



Agilent AA, MP-AES, ICP-OES, ICP-MS, ICP-QQQ

LEADING THE WAY IN ATOMIC SPECTROSCOPY INNOVATION



Agilent Technologies

Agilent's portfolio offers you the most diverse application coverage, while our unique MP-AES and ICP-QQQ technologies deliver new possibilities for your lab. Choose Agilent, together we'll take the path to success.

LEADING TOGETHER



AA

Atomic Absorption Spectroscopy

Agilent's comprehensive range of AA spectrometers is productive, user-friendly and exceptionally reliable.

Fast analysis – boost productivity and slash running costs with the Agilent 240FS and 280FS featuring unique Fast Sequential capabilities

Sensitive furnace AA – the Agilent 240Z and 280Z Zeeman Graphite Furnace AA systems are productive and precise, providing outstanding furnace performance and accurate background correction for challenging samples

Rugged and reliable – the Agilent 55B AA standalone instrument is ideal for remote sites and harsh environments

Simultaneous flame and furnace – the unique DUO AA configurations double your productivity by allowing flame and furnace operation at the same time, without change-over delays

For further details refer to: Agilent 55B AA Spectrometer brochure, part number: [5990-6617EN](#) and Agilent Atomic Absorption Spectrometers brochure, part number: [5990-6495EN](#)



MP-AES

Microwave Plasma-Atomic Emission Spectroscopy

The Agilent 4210 MP-AES has high sensitivity, detection limits down to sub ppb levels and is faster than conventional flame AA. Best of all, it runs on air instead of combustible gases.

Lowest cost of ownership – the 4210 runs unattended without expensive flammable gas supply, dramatically reducing your operating costs

Improved laboratory safety – the 4210 eliminates flammable gases and the need to manually transport and handle gas cylinders

High performance – a magnetically excited microwave plasma source provides superior detection limits to flame AA. A range of accessories extends the performance for your toughest samples.

Ease-of-use – application-specific software applets and plug-and-play hardware ensure any user can use the instrument with minimal training

Remote control – the Automation Software pack allows remote control of the instrument

For further details refer to: Agilent 4210 MP-AES brochure, part number: [5991-7237EN](#)



ICP-OES

Inductively Coupled Plasma-Optical Emission Spectroscopy

The Agilent 5110 ICP-OES delivers accurate results with highest speed utilizing axial and radial view analysis at the same time.

Save time and money – complete your analysis fast – using less gas, and measure all wavelengths in one measurement. Increase your productivity even more with the Advanced Valve System.

Uncompromised performance – measure your toughest samples with a vertical torch and enjoy minimal interferences with a Cooled Cone Interface. Long term analytical stability is achieved by a solid-state RF system that delivers a robust plasma

Simplify your analysis – take the guess work out of method development with intuitive ICP Expert software and DSC technology. Powerful software algorithms simplify method development, improve accuracy and extend your measurement range

Flexible configurations – the 5110 is available in three configurations: Synchronous Vertical Dual View, Vertical Dual View and Radial View

For further details refer to: Agilent 5110 ICP-OES brochure, part number [5991-6846EN](#)

STARTS HERE



QUADRUPOLE ICP-MS

Inductively Coupled Plasma-Mass Spectrometry

The Solution-Ready Agilent 7800 offers a streamlined approach to routine trace metal analysis, without compromising performance.

Simplify common analyses – Pre-set Methods, auto-optimization tools and pre-defined report templates automate many routine applications, while standard operating procedures guide users in system setup and routine operation

Reduce sample preparation – high matrix introduction (HMI) technology enables samples with up to 3% dissolved solids to be run directly, usually without the need for matrix matched calibrations

Ensure accurate data with effective interference removal – helium (He) collision mode is the only universal cell mode, proven to reduce all common polyatomic interferences under a single consistent set of cell conditions

Simplify methodology and reduce re-runs – the wide dynamic range of the detector enables analysis of both trace and major elements in a single run.

For further details refer to: Agilent 7800 ICP-MS brochure, part number: [5991-5874EN](#)

The Agilent 7900 offers market-leading performance with the flexibility to address routine and research applications.

Superior matrix tolerance – a robust plasma and optional Ultra High Matrix Introduction technology enable the measurement of samples containing up to 25% total dissolved solids

Widest dynamic range – an orthogonal detector system delivers up to 11 orders of dynamic range – allowing you to measure trace elements and majors in the same run, simplifying method development and virtually eliminating over-range results

Fast transient signal detection – high-speed detector electronics (integration times down to 0.1 ms) and optional integrated nanoparticle analysis software (for single particles or on-line separation using FFF) make characterizing nanomaterials routine

Flexibility – ICP-MS MassHunter software features automated system optimization, intelligent method setup, and remote monitoring capabilities

For further details refer to: Agilent 7900 ICP-MS brochure, part number: [5991-3719EN](#)

ICP-QQQ

Triple Quadrupole ICP-MS

The Agilent 8900 triple quadrupole ICP-MS opens up analytical possibilities for analysts around the world.

Simple, reliable interference removal – the 8900 features MS/MS mode for controlled and consistent interference removal in reaction mode

Handle difficult samples – the matrix tolerance and robustness of the 8900 allows the measurement of even the most difficult samples

Unparalleled accuracy – MS/MS mode eliminates the variability associated with reaction mode on conventional quadrupole ICP-MS. The result is more accurate and reliable data, regardless of sample type

Incomparable performance – the 8900 sets the performance benchmark in no gas mode and collision mode, and MS/MS gives the 8900 the highest abundance sensitivity ever seen in ICP-MS ($<10^{-10}$), further improving data integrity in high matrix samples

Tailored solution – the 8900 ICP-QQQ is available in a range of configurations, suitable for routine analysis through to advanced research

For further details refer to: Agilent 8900 ICP-QQQ brochure, part number: [5991-6900EN](#)

For more information

Find out how Agilent's Atomic Spectroscopy Solutions can deliver more possibilities for your lab

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For further details refer to: Agilent Atomic Spectroscopy Supplies Catalog, part number: [5991-5455EN](#) and Agilent High Quality Inorganic and Metallo-Organic Standards Brochure, part number: [5991-5678EN](#)

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