EWAI
东西分析



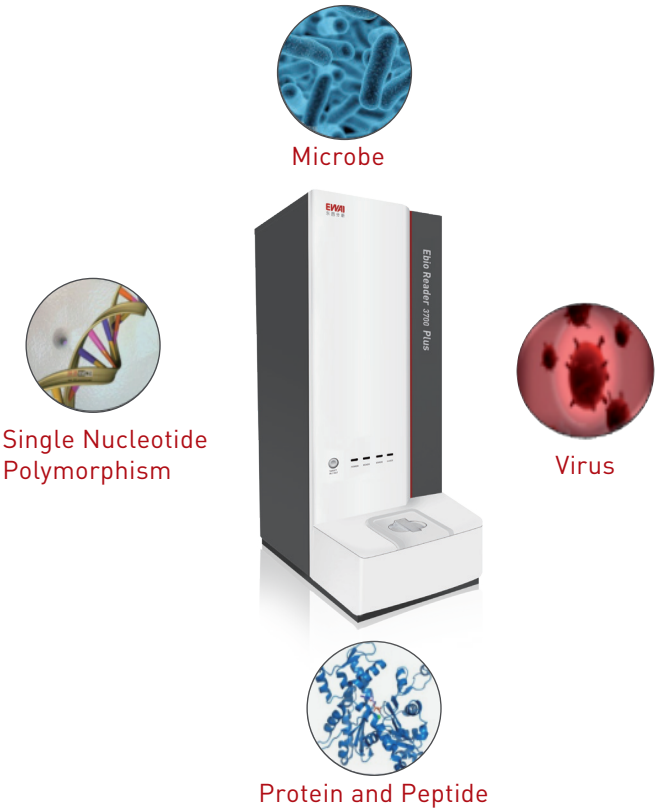
(NMPA Medical Device Registration Certificate No.: JIN20222220402)

Ebio Reader 3700 Plus Time of Flight Mass Spectrometer

EAST & WEST ANALYTICAL INSTRUMENTS , INC.
Simply Precise

Ebio Reader 3700 Plus
Time-of-Flight Mass Spectrometer

(NMPA Medical Device Registration Certificate No.: JIN20222220402)



Why Choose Ebio Reader 3700 Plus?

- ▲ Regulatory Ready: NMPA-certified, traceable data
- ▲ Modular Design: Expandable for genomics/proteomics
- ▲ Cross-Industry Use: From clinics to agri-food safety
- ▲ Dual IVD & RUO Databases

Application Fields

The Ebio Reader 3700 Plus is widely used in following fields:

- ★ Clinical Diagnostics (Microbial ID, Cancer Screening, Precision Medicine)
- ★ Public Health (CDC Surveillance, Food Safety, Veterinary/Plant Quarantine)
- ★ Research (Genotyping, Drug Resistance, Biomarker Discovery)
- ★ Parmaceuticals, Food, Cosmetics, Agriculture and Animal husbandry,etc.

- Microbial Identification

  Powerful microbial database by supporting data analysis software; Search and compare obtained protein fingerprint and database fingerprint.

  - ★ High-throughput: 96 samples <15 minutes
  - ★ Authoritative traceable microbial strain database: Over 80,000 validated strains are collected from medical and health-related, environmental, soil, industrial, animal and plant sources, covering highly pathogenic species including plague bacteria and anthrax bacteria.
  - ★ Cost-effective: Minimal sample prep, low reagent costs

- Nucleic Acid Mass Spectrometry

  Multiplex PCR + MALDI-TOF : detect single point mutations in nucleic acid for genotyping and DNA methylation analysis. Being widely used in genetics analysis, molecular diagnosis, cancer early screening, drug resistance analysis and virus detection.

  - ★ Multiplex PCR + MALDI-TOF: Detects SNPs, CNVs, methylation
  - ★ Ultra-Sensitive: Down to 10 copies/reaction
  - ★ Applications: Cancer early screening (e.g., HPV, lung/colon cancer)
    Antimicrobial resistance (TB, Helicobacter pylori)
    Viral genotyping (SARS-CoV-2, Influenza, ASFV)

- Protein Biomarker Detection

  Customizable protein fingerprint models for : Alzheimer's | Parkinson's | Cancer | Diabetes

Performance Highlights

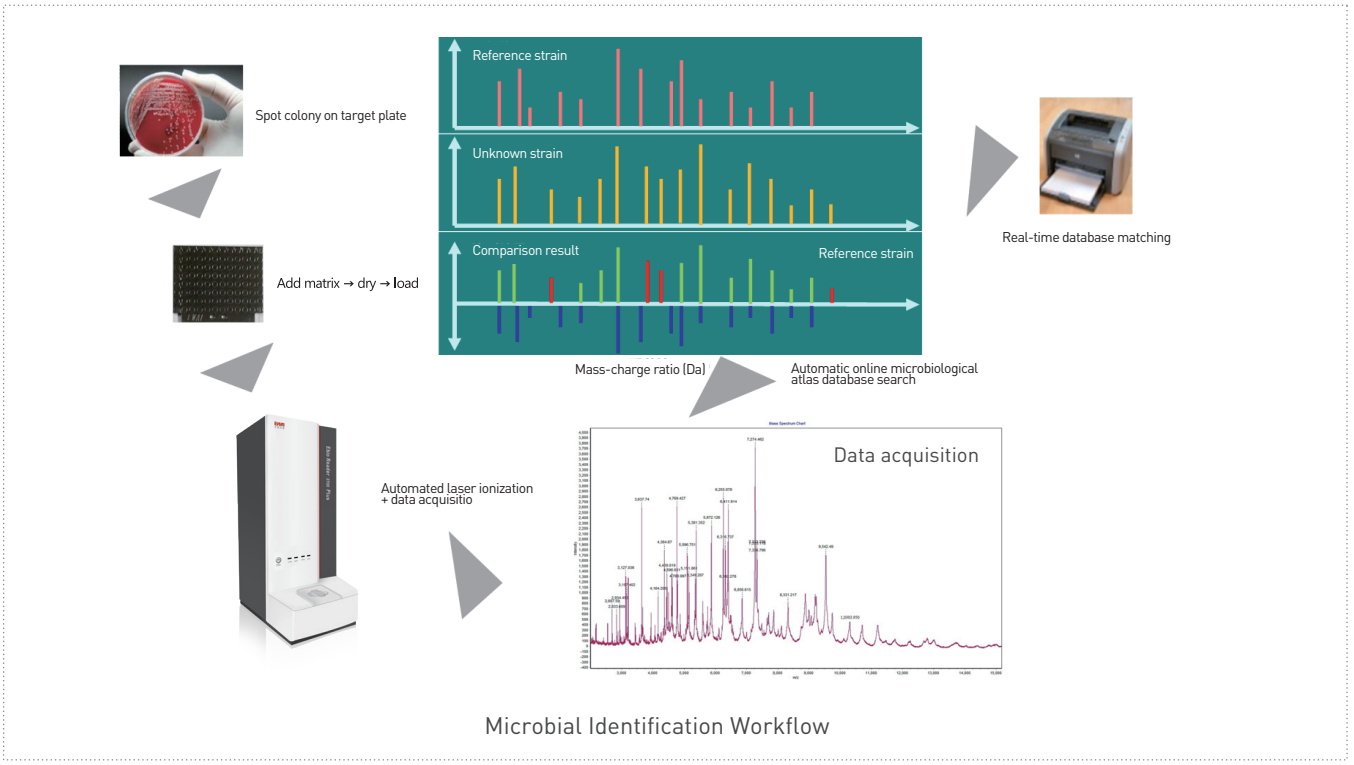
- Hardware Innovations
  - ★ Laser: Wide adjustable pulse; >10-billion-shot lifespan
  - ★ Thermally Stable Flight Tube: Ensures ppm-level mass accuracy
  - ★ Smart Ion Source: Enhanced sensitivity with net sieve design
  - ★ High-Speed Data Acquisition: FPGA-based real-time processing
  - ★ Automated Target Handling: Auto-positioning, 96-well disposable/reusable plates
- Software Advantages
  - ★ Dual IVD/RUO Databases: CE/FDA-compliant workflows
  - ★ Bilingual UI: English & Latin
  - ★ Professional microbiology software: Interface with LIS and support data integration with blood culture systems and antimicrobial susceptibility testing instruments.
  - ★ Cluster Analysis: T-tests, PCA, spectral quality control
  - ★ Custom Methods: User-defined detection protocols
  - ★ Featured Detection Panels

Multifunctional Detection Platform

- Nucleic acid genotyping (Optional).
- Building a protein fingerprint database of diseases (Optional).

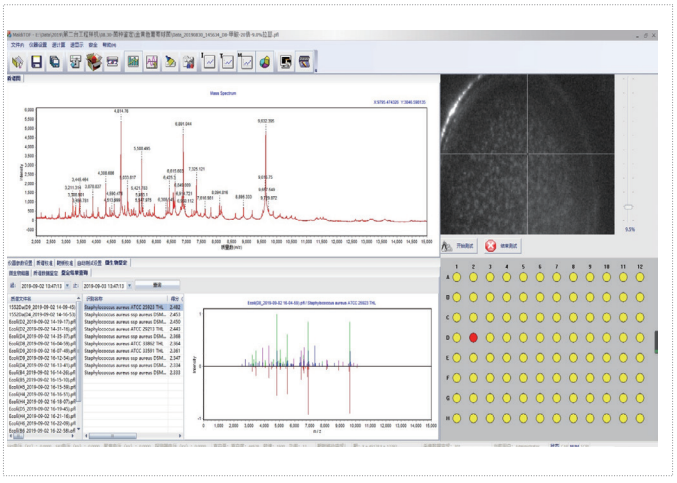
Microbial Identification

- High throughput：Detect 96 samples being detected at one time.
- Fast detection speed：96 samples/ 15 minutes.
- Simple sample pretreatment.
- Low cost reagents and consumables.
- Wide range of applications: Clinical diagnosis, third-party test, disease control, agricultural, animal husbandry and food safety, etc.

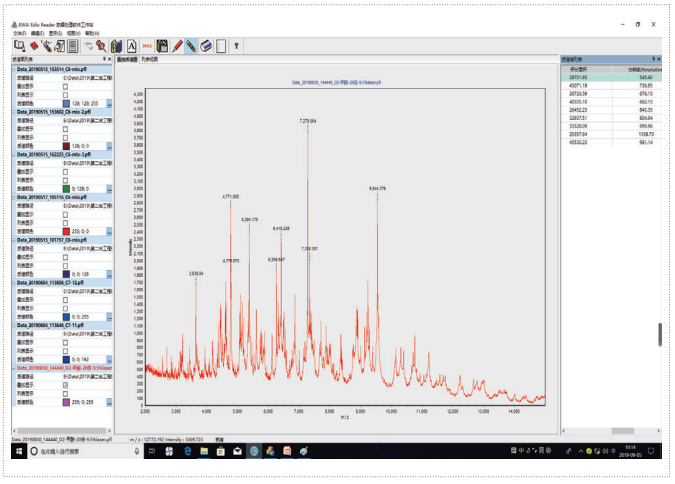


Microbial Identification Workflow

Powerful Automated Software System (Microbial Identification)



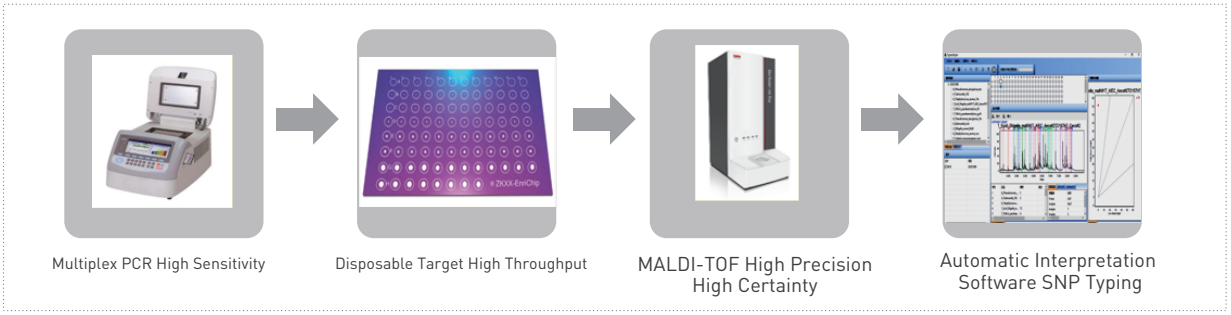
Real–time Workstation System



Data Processing System

Nucleic Acid Mass Spectrometry

- High efficiency: 96 samples being tested quickly.
- High throughput: Simultaneous analysis of 96 samples with up to 40 probes per sample.
- High Accuracy: Multiple targets for a same gene, significantly improve the accuracy of sample identification.
- High flexibility: Increase the target as needed (the original design keeps same).
- High Sensitivity: Detect 10 copies / reaction.
- High quality-price ratio: No fluorescent labeling needed.
- Wide range of applications: Genotyping (SNP, insertion-deletion and CNV), methylation analysis, cancer early screening, drug resistance analysis, precision drug guidance, etc.



Application Solution of Nucleic Acid Mass Spectrometry

Category	Detection Item	Detection Target	Detection Significance
Pathogen Detection	Nipah Virus	Malaysia strain (NC_002728) & Bangladesh strain (AY988601)	Aided Diagnosis of disease
	Respiratory virus	Influenza A、 influenza B、respiratory syncytial virus, parainfluenza virus, metapneumovirus, & etc. --23 types of respiratory virus	
	Cervical Cancer	HPV virus	
	Sex transmission disease infected pathogen	Syphilis, herpes, vaginal hairy wine worm, mycoplasma genitalium, Neisseria gonorrhoeae & etc. -- 12 types 24 genes	
	Food-borne intestinal pathogens	Escherichia coli, shigellosis, salmon, vibrio parahemolyticus, Staphylococcus aureus & etc.--8 types 16 genes	Food safety
Molecular Typing	Legionella & Legionella pneumophila	56 types of Legionella and 15 serotypes of Legionella pneumophila	Aided Diagnosis of disease
	African swine fever virus	24 genotyping, virulence strength and gene deletion	Animal epidemic prevention and control
	Burkholderia cepacia Complex	Genotyping of 27 Species of BcC	Parmaceutical safety
Drug Resistance Gene Locus Detection	Mytobacterium tuberculosis	Isoniazid, rifampicin, ethambutol-- 21 drug resistance gene site	Precision medicine
	Cardiovascular drug resistance	Sartan	
	Helicobacter Pylori	17 drug resistance gene loci of clarithromycin, rifampicin, tetracycline and levofloxacin	
Cancer Screening	Lung cancer screening	EGFR、KRAS 、ALK and other gene mutation	Early cancer screening and prevention

Application Examples Table

- Pathogen Multiple Detection

  - Nipah Virus Detection

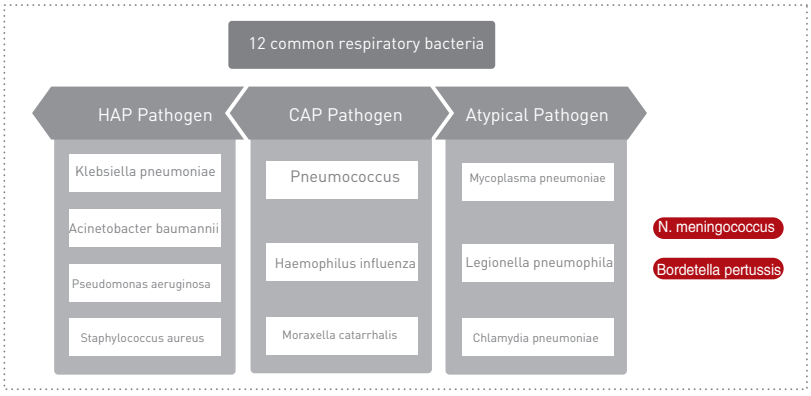
    Characteristics： Label-free and cutting-edge: No fluorescent labeling or specialized sequencing technology required; contamination-resistant.

    - Comprehensive 7-plex targets: Covers viral detection and quality control:

• 6 core Nipah virus genes: N, P, M, F, G, L	• Human DNA internal control gene: Ensures full-process quality monitoring for reliable results

    - Genotyping and traceability:
      - Accurately distinguishes two major epidemic strains: Malaysia strain (NC_002728) & Bangladesh strain (AY988601)
      - Supports outbreak source tracing and transmission chain analysis.
    - High specificity and sensitivity:
      - Dual confirmation via PCR amplification + mass spectrometry, suitable for early screening and complex samples.

  - Respiratory Diseases



23 Respiratory Viruses	
Influenza A virus	Metapneumovirus A
Influenza A virus H1	Metapneumovirus B
Influenza A virus H12009	Rhinovirus
Influenza A H3	Corona virus NL63
Influenza B	Corona virus 229E
Influenza B By	Corona virus 0C43
Influenza B virus By	Corona virus HKU1
Parainfluenza virus type 1	Corona virus SARS
Parainfluenza virus type 2	Corona virus MERS
Parainfluenza virus type 3	Corona virus SARS-21ab
Parainfluenza virus type 4	Corona virus SARS-2N
Syncytial virus A	RNA Quality Control
Syncytial virus B	

  - Cervical Cancer Screening
  - Food-borne Intestinal Pathogen

    Using structure & virulence gene double probe to test main pathogens

- Molecular Typing

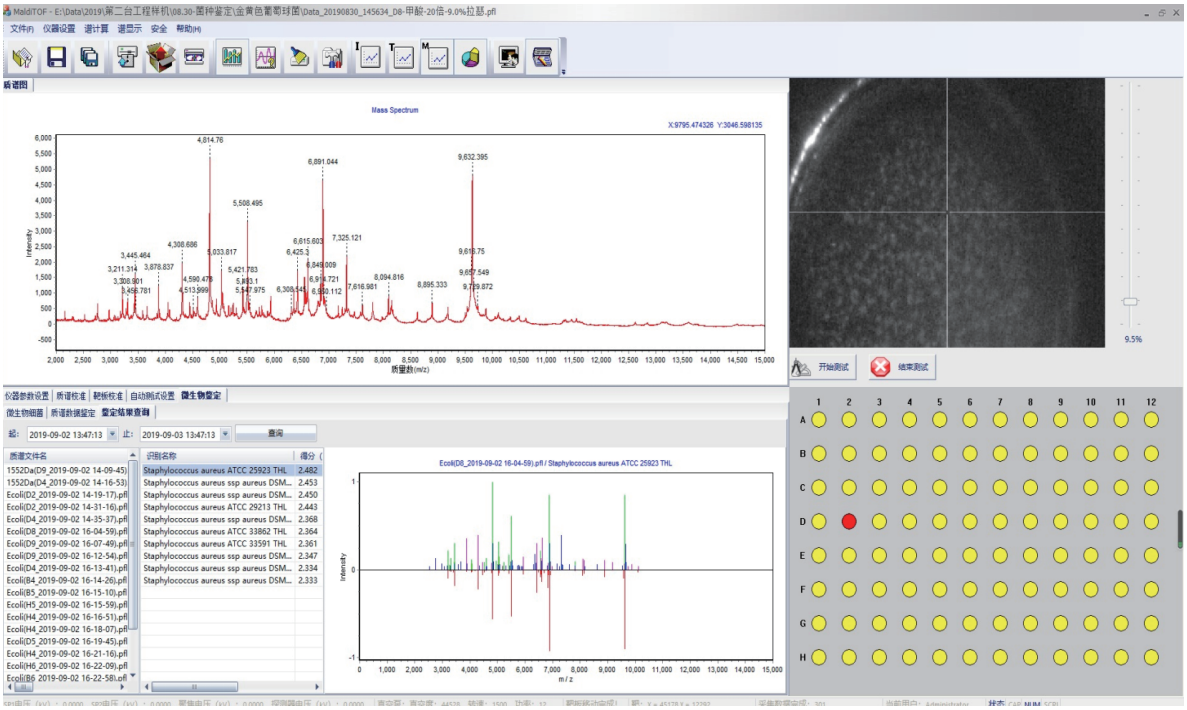
  - Detection of Legionella group and Legionella pneumophila
    - 56 types of Legionella （No typing）
    - 15 types of Legionella pneumophila （No typing）
    - 15 types of Legionella pneumophila (Serotyping)
  - Animal epidemic disease virus test

    African swine fever virus （ASFV）typing test：
    24 genes typing, virulence strength strain and gene deletion
  - Coronavirus Detection

    Ten gene target probes being used for detection (equivalent to 10 PCR tests), effectively prevent missed detection. Detect and distinguish the existing 5ARS-CoV and SARS-CoV-2 viruses with ultra-high sensitivity, and being used for rapid, effective and timely monitoring and early warning of new SARS-CoV-3,4, ...N Corona virus.

- Drug Resistance Gene Spot Detection: Precise Medication Guidance
  - Mycobacterium tuberculosis (first-line drug, second-line drug)
  - Cardiovascular disease (antihypertensive, hypoglycemic, lipid-lowering drug, etc.)
  - Helicobacter pylori drug resistance detection

Powerful Automated Software System (Nucleic Acid MS)

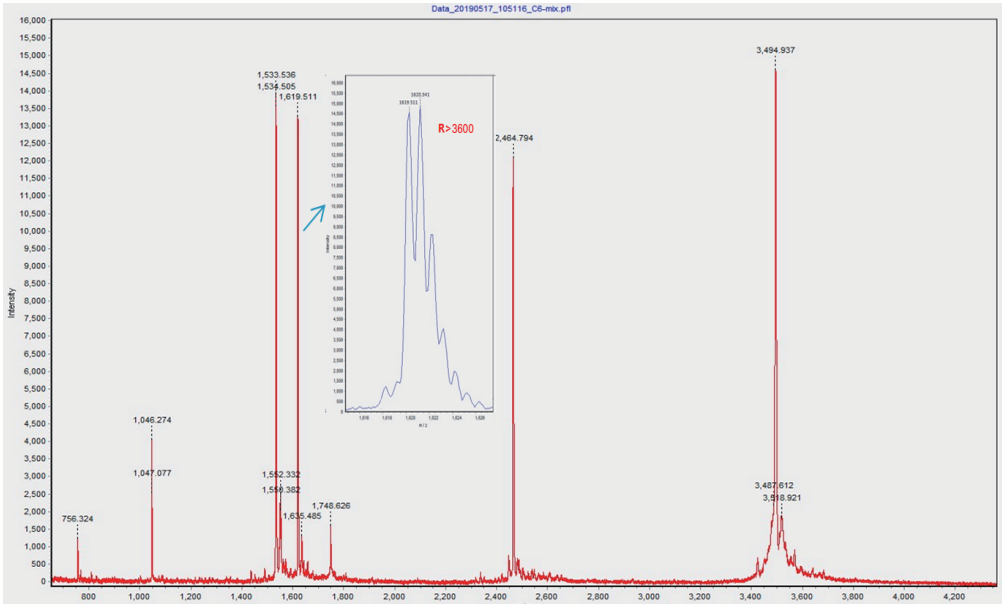


Real–time Workstation System

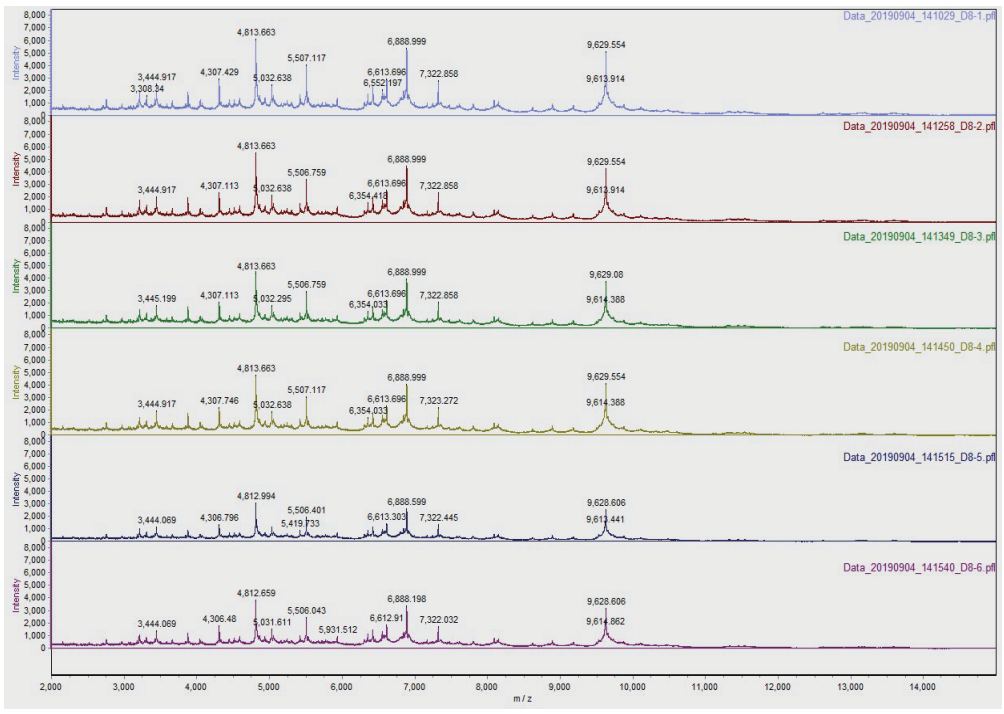


Data Processing System

Reliable Instrument Performance (Microbial Identification)

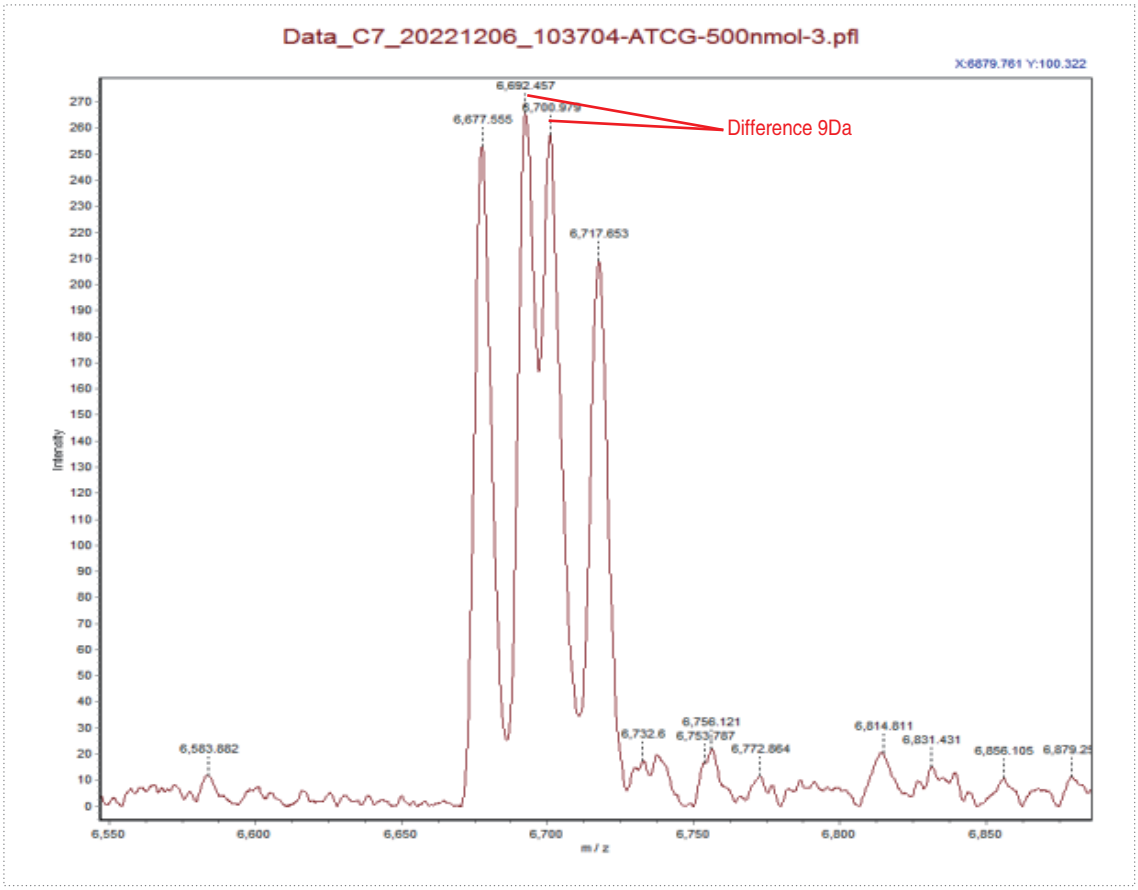


Instrument Resolution

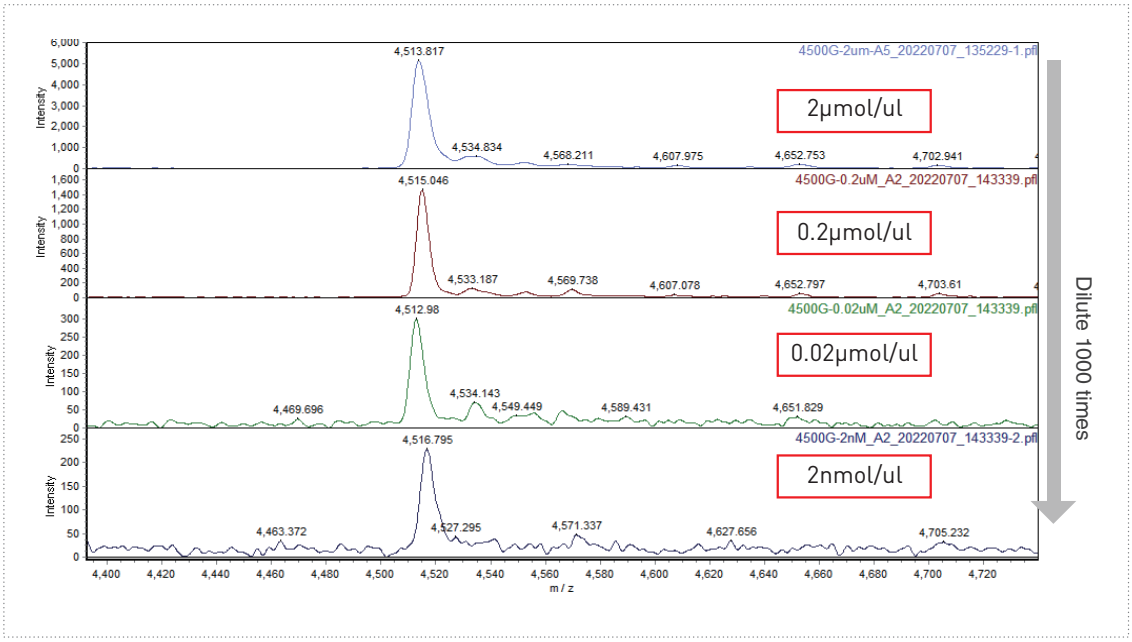


Instrument Repeatability Test (Staphylococcus Aureus)

High Resolution, High Sensitivity (Nucleic Acid MS)



High Resolution



High Sensitivity

EWAI Products

ICP-TOF-MS 3800 Inductively Coupled Plasma Time-of-Flight Mass Spectrometer
Ebio Reader 3700/Ebio Reader 3700 Plus Time of Flight Mass Spectrometer
PRO-MS 3600 Process Mass Spectrometer
PTR-QMS 3500 Proton transfer reaction mass spectrometry
GC-MS 3200/3250 Gas Chromatograph-Mass Spectrometer (Quadrupole)
GCxGC TOF MS 3300 Comprehensive Two-dimensional Gas Chromatograph – Time of Flight - Mass Spectrometer
GC-4000A/4100/4200 Series Gas Chromatograph
EW-4400 Portable PID Gas Analyzer
LC-5520 High Performance Liquid Chromatograph
IC-2800 Ion Chromatograph
ICP-7700/7760HP/7762 ICP Spectrometer
AA-7003/7020/7050/7050D/7090/7095 Atomic Absorption Spectrometer
UV-6010/UV-6020 UV-visible spectrophotometer
AF-7500/7500B/7550 Atomic Fluorescence Spectrometer
LC-AF 7590 liquid chromatography-atomic fluorescence spectrometer
XD-8010 Energy Dispersive X-Ray Fluorescence Spectrometer
CA-9000 Mobile Inspection Lab
Bundle monitoring system and coal mine specialized analytical instruments
LIMS Laboratory Information Management System

GBC Products

SavantAA ∑ Atomic Absorption Spectrometer
XplorAA Atomic Absorption Spectrometer
enduro T2100 Atomic Absorption Spectrometer
Quantima Inductively Coupled Plasma Optical Emission Spectrometer
Integra 6000 Inductively Coupled Plasma Optical Emission Spectrometer
OptiMass 9600 ICP-oTOFMS
Nebula Series Gas Chromatograph
Aludra Gas Chromatograph-Mass Spectrometer
Cintra 3030/4040 UV-Vis Spectrometer
Cintra 6010/6020 UV-Vis Spectrometer
Emma X-ray Diffractometer

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