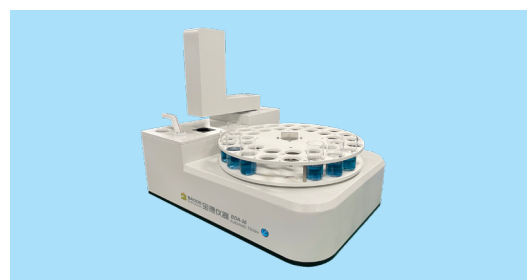


Product Recommend Manual



Professional Laboratory Analytical Instruments Manufacturer with Complete Solutions from Sample Preprocessing to Analytical Testing Methods.

Beijing Baode Instrument Co., Ltd.

Founded in 2015, **Beijing Baode Instrument Co., Ltd.** is located in Beijing, China. Baode focus on research and development, production, sales, and after-sales service of laboratory analytical instruments related to food and agricultural by-product safety testing and environmental testing. We are high-tech enterprise with ISO 9001 International Quality System, ISO 14001 environmental system and OHSAS 18001 Occupational Health and Safety Management System certification. The total number of independent intellectual property rights, patents and software copyrights is over 80.



We have researched and developed multiple products independently:

- BDFIA Series Flow Injection Analyzer
- Direct Mercury Analyzer
- Automatic Solvent Extractor
- SnCl_2 - Cold Atomic Absorption Mercury Analyzer
- BAF Series Atomic Fluorescence Spectrometer
- Automatic Iodine Analyzer
- Automatic Chemical Oxygen Demand (Dichromate method) Analyzer
- Automatic Permanganate Index Analyzer
- Automatic Potentiometric Titrator
- Total Organic Carbon Sample Pretreatment Station
- Automatic Iodine Analyzer
- Automatic Evaporator for Gross Alpha/Beta Activity Concentrations in Water
- Automatic Constant Temperature and Humidity Weighing System
- Automatic Total Dissolved Solid Analyzer
- Automatic Free Silica Analyzer
- Automatic Biochemical Oxygen Demand Analyzer

Our instruments have gained unanimous recognition and credit from our clients. Among them, BAF-4000 Atomic Fluorescence Spectrometer won BCEIA gold award in 2017. BDFIA-8600 won BCEIA gold award in 2019.



Our users are widely distributed in laboratories in various fields such as **environmental protection, quality inspection, disease control, medicine, food, agriculture, geology, tap water, research institutes, University and third-party testing institutions** in both China and abroad.

Baode products not only comply with China's national standards, industry standards, environmental standards, etc., but also apply to international standards such as EPA, ISO, ASTM, etc., such as:

- EPA3545A Method 3545A (SW-846)
- EPA7473
- ASTM D6722-01
- ASTM D7623-10
- ISO 15681-1:2003
- ISO 23913
- ISO 29441:2010

In order to better promote enterprise development and integrate into the international market, we pass a series of international certifications.



BDFIA-8000 Flow Injection Analyzer



Product Introduction

BDFIA-8000 can work automatically including sampling, sample online preprocessing, chemical reaction, detection, data report, etc.

Measurement items

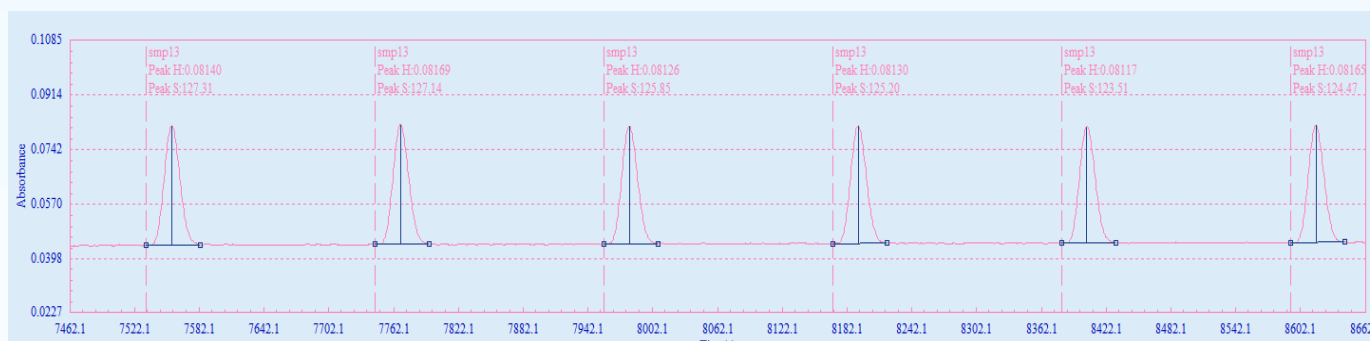
Volatile phenol, Cyanide, Total cyanide, Total phosphorus, Total nitrogen, Soluble sulfide, Nitrate, Nitrite, Permanganate index, Ammonia nitrogen, Silicate, Anionic, Soluble boride, Surfactant, Orthophosphate, Hexavalent chromium, Fluoride, Urea, Total Alkalinity, Total Hardness, Acidity, Chroma, Calcium, Magnesium, Formaldehyde etc.

Application

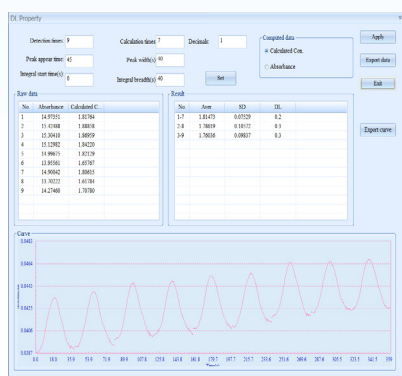
- Water quality analysis (drinking water, public sewage, industrial wastewater, surface water, ground water, waste water, etc.)
- Environmental analysis (soil analysis, plant analysis)
- Food and beverage analysis
- Fertilizer analysis

Technical Index

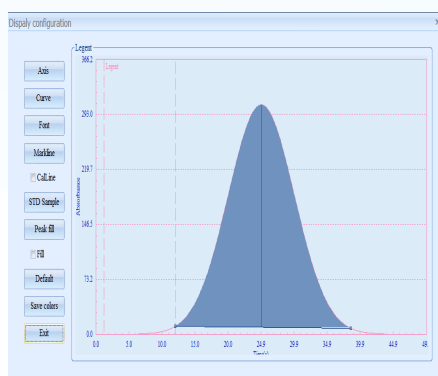
- Multiple testing items are analyzed quickly and accurately at the same time. Measure immediately after powering on, and the stabilization time is less than 10 minutes.
- Integral design, sampling, reaction and detection parts are all in one instrument. With online degassing function, no need to degas the reagents.
- 72 auto-sampler is used in each channel. It can also be connected to other specifications of automatic samplers at any time.
- High-sensitivity and dual-beam detector with low detection limit and good repeatability and Excellent stability.
- One 12-port non-adjustable peristaltic pump.
- Multiple channels can be analyzed at the same time, supporting up to 16 channels for simultaneous analysis. Each channel is equipped with an independent detector and can also be used as an independent analytical instrument.
- Compliance with ISO standards.



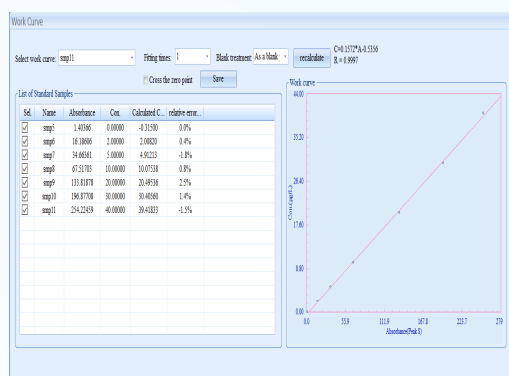
RSD



Detection Limit



DISPLAY CONFFIGURATION



Work Curve

Instrument Performance Index

1 Indicators of Ammonia Nitrogen

- 1.1 Method: Salicylic Acid Photometer
- 1.2 Linearity: 0.01-5mg/L
- 1.3 DL: ≤ 0.005 mg/L
- 1.4 Frequency: 50 PCS/Hour
- 1.5 RSD: $\leq 1\%$ (0.2mg/L)
- 1.6 Accuracy: $\pm 3\%$

2 Indicators of Volatile Phenol

- 2.1 Method: 4-Amino-antipyrine Photometer
- 2.2 Linearity: 0.001-0.2mg/L
- 2.3 DL: ≤ 0.0003 mg/L
- 2.4 Frequency: 20 PCS/Hour
- 2.5 RSD: $\leq 1\%$
- 2.6 Accuracy: $\pm 3\%$

3 Indicators of Cyanide

- 3.1 Method: Isonicotinic acid-barbituric acid photometry
- 3.2 Linearity: 0.001-0.2mg/L
- 3.3 DL: ≤ 0.0005 mg/L

3.4 Frequency: 20PCS/Hour

3.5 RSD: $\leq 1\%$

3.6 Accuracy: $\pm 3\%$

4 Indicators of Anionic Surfactants

4.1 Method: Methylene Blue Photometry

4.2 Linearity: 0.02-2mg/L

4.3 DL: ≤ 0.010 mg/L

4.4 Frequency: 20 PCS/Hour

4.5 RSD: $\leq 2\%$

4.6 Accuracy: $\pm 3\%$

5 Indicators of Sulfide

5.1 Method: Methylene Blue Photometry

5.2 Linearity: 0.01-1.0mg/L

5.3 DL: ≤ 0.005 mg/L

5.4 Frequency: 15 PCS/Hour

5.5 RSD: $\leq 3\%$

5.6 Accuracy: $\pm 3\%$

BDCFA-800 Automatic Continuous Flow Analyzer

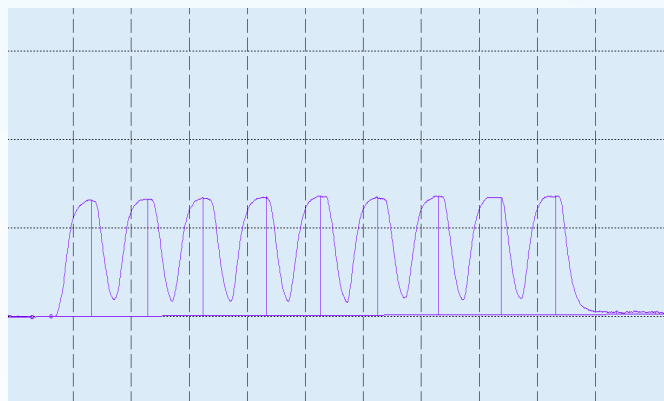


BDCFA-800 Automatic Continuous Flow Analyzer is developed and produced independently by Beijing Baode Instrument Co., Ltd. It uses the bubble interval continuous flow analysis principle (CFA) to detect total phosphorus, total nitrogen, phosphate, Nitrate nitrogen, nitrite nitrogen, Ammonia nitrogen and other projects in water samples. The integrated design of the instrument is suitable for simultaneous detection and analysis for multiple parameters and large batches of water samples.

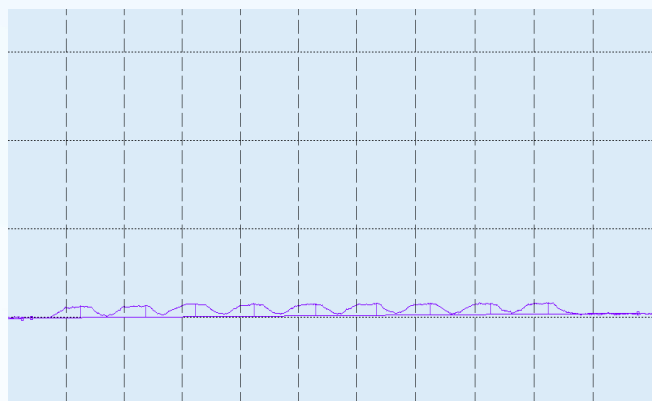
Main features:

- Adopt bubble interval continuous flow principle (CFA).
- Integrated design: integrated design of automatic sampler, high-precision peristaltic pump, chemical analysis module, online pre-processing device, LED light source detector, circuit control and software workstation.
- Each analytical channel is equipped with its own unique polar auto-sampler. The injector has 72 sample positions, 70 10ml sample positions and 2 50ml sample positions.
- Double-channel current-carrying tank provides real-time fluid replenishment to avoid cross-contamination during sampling.
- The high-precision pump is equipped with 17 pump tube channels; an integral pump gland is used as the pump cover.
- Air bubbles are injected through air valve, and the bubbles are uniform in size and shape.
- The chemical analysis module uses a quartz reaction mixing ring, including online heating, online UV digestion, online constant temperature and other online pre-treatment devices.
- Each analysis channel is equipped with a high-sensitivity photodetector, with an optional optical path length of 10-50mm.
- Workstation software can set analysis parameters, collect data, and generate reports automatically.

Total phosphorus performance indicators:



Total phosphorus RSD (200ppb) Peak



Total phosphorus DL (20ppb) Peak

Test object (sea water):

	Parameter	Analysis method
1	Total Phosphorus	Online high pressure digestion-ammonium molybdate spectrophotometry
2	Phosphate	Color development at constant temperature online - spectrophotometry of ammonium molybdate
3	Total Nitrogen	Online high pressure digestion and column spectrophotometry with reduction of cadmium, naphthalene and ethylenediamine hydrochloride
4	Nitrate Nitrogen	Online cadmium column reduction & constant temperature color development-naphthylethylenediamine hydrochloride spectrophotometry.
5	Nitrate Nitrogen	Online Color Development at Constant Temperature - Spectrophotometry of Naphthylethylenediamine Hydrochloride
6	Ammonia Nitrogen	Online Spectrophotometry of Salicylic Acid at Constant Temperature
7	Active silicates	Online color development at constant temperature - spectrophotometry of silicon-molybdenum blue

Test object (fresh water)

	Parameter	Analysis method
1	Total phosphorus	Online high-pressure digestion-ammonium molybdate spectrophotometry
2	Phosphate	Online constant temperature color development-ammonium molybdate spectrophotometry
3	Total nitrogen	Online high-pressure digestion & cadmium column reduction-naphthylethylenediamine hydrochloride spectrophotometry
4	Nitrate nitrogen	Online cadmium column reduction & constant temperature color development-Naphthylethylenediamine hydrochloride spectrophotometry
5	Nitrate Nitrogen	Online constant temperature color development-Naphthylethylenediamine
6	Ammonia Nitrogen	Online constant temperature color development-salicylic acid spectrophotometry
7	Volatile phenol	Online distillation-4-aminoantipyrine spectrophotometry
8	Cyanide	Online distillation-isonicotinic acid-barbituric acid spectrophotometry
9	Anionic surfactant	Secondary extraction methylene blue spectrophotometry

BDHg-60 Direct Mercury Analyzer



Introduction

BDHg-60 Direct Mercury Analyzer is based on the principle of ETV-AAS. The instrument does not require the addition of any reagents and does not require complex sample pretreatment. It can directly determine the total mercury content in solid and liquid samples. BDHg-60 effectively avoids mercury loss, cross contamination and environmental pollution in the process of pretreatment. The system ensures accurate data analysis and saves time, manpower and reagents.

Application

The BDHg-60 Direct Mercury Analyzer mainly tests mercury content in Food Safety, Environmental Protection, Disease Control and Prevention, Medicine, Agriculture, Mining, Soil, Surface Water, Groundwater, Cosmetics, Scientific Research and other fields of samples.

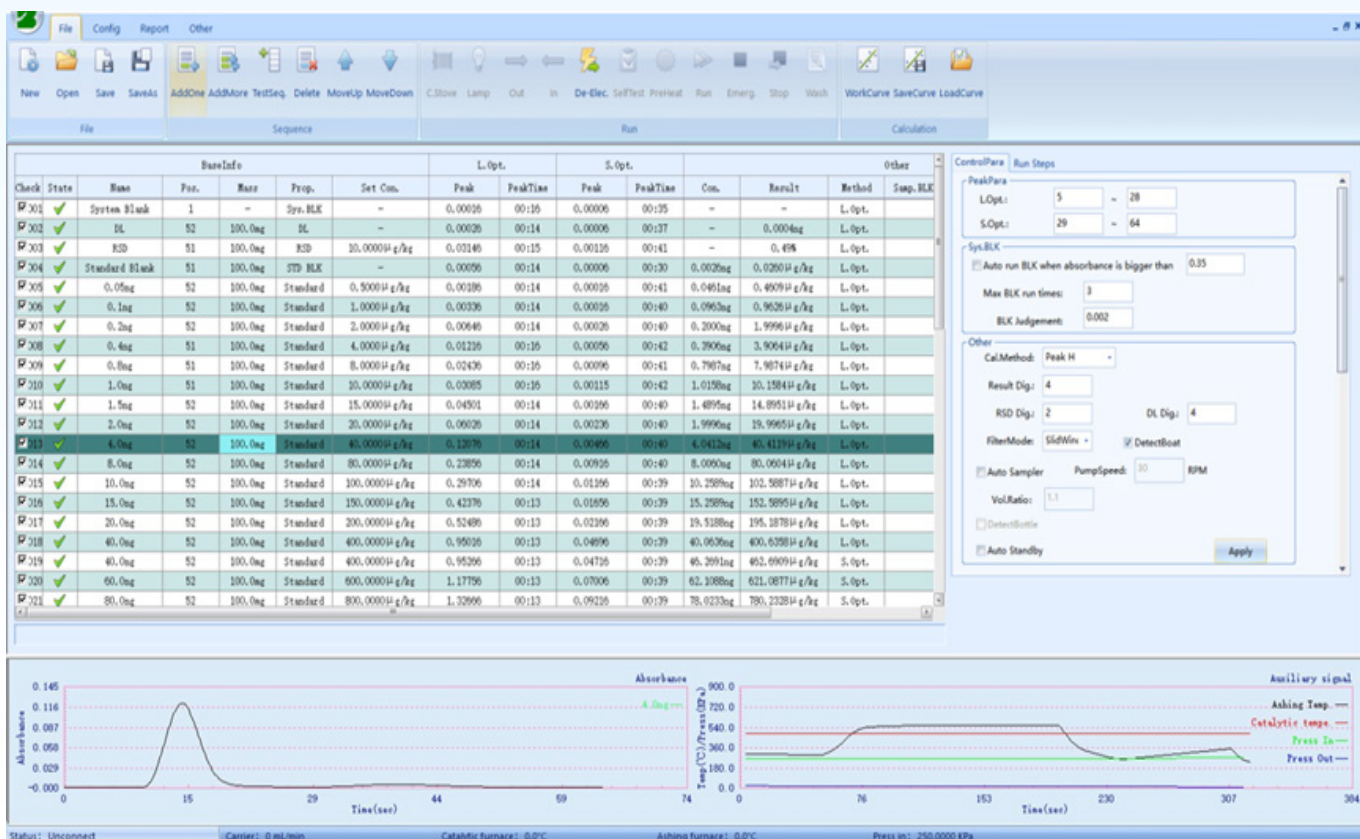
Characteristic

- **Easy Operation:** No need to sample digestion. The operator only needs to weigh the sample and place it on the automatic sampler.
- **High Efficiency:** A complex matrix sample was tested in less than 5 minutes and a simple matrix sample takes less than 3 minutes. Samples can be added to the device in an infinite cycle.

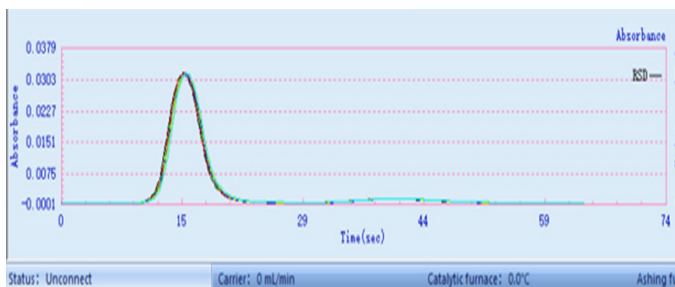
- **Excellent Repeatability and Accuracy:** The patented rapid condensing unit makes the system better for removing water, less mercury memory and better repeatability.
- **Environmentally Friendly:** No need to use toxic and harmful chemicals in the whole process of analysis
- **Intelligent platform:** The software is simple to operate and equipped with a Whole-Process temperature monitoring system and a One-Button embedded program to update the latest system.
- **Direct transfer of solid sample weight results:**
- **LAN communication interface:** Ensure the system to communicate quickly and run reliably and stably.
- Standards: EPA7473 and SN/T 4697-2016.

Main Parameter

- Quality Detection Limit: $\leq 0.0005\text{ng}$
- Repeatability: $\text{RSD} \leq 1\%$ (1ng)
- Maximum Samples: Solid for 1500 mg; Liquid for 1.5 ml
- Linearity Range: 0~2000ng
- Correlation Coefficient: $R \geq 0.999$
- Measurement Method: Peak area or peak height
- Calibration Method: Standard Solution or Reference Material
- Autosampler: Sample bits for 60 solid/liquid samples.
- Automatic Liquid Injector: Optional automatic sampler with separate 60 sample bits to prevent liquid sample volatilization.
- Detection Principle: ETV-AAS



Main Interface



RSD

TestTimes: 7, Samp.Mode: ☐ Continued ☒ Interrupted

Pos.: ☒ Same ☐ Increase ☐ Decrease

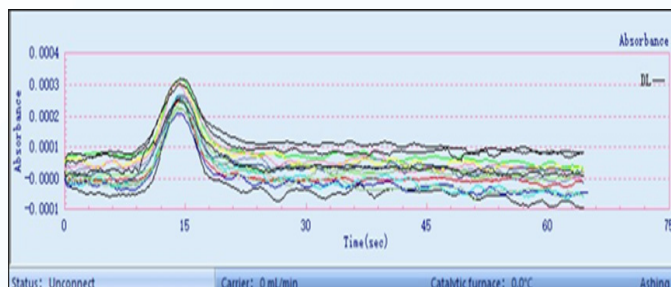
Cal.Method: ☐ Absorbance ☒ Con.

Export ReCal.

NO.	Name	Mass	Absorbance	Set Con.	Result	Con.
1	RSD	100.00mg	0.03156	10.0000	1.0396ng	10.3959ug/kg
2	RSD	100.00mg	0.03156	10.0000	1.0396ng	10.3959ug/kg
3	RSD	100.00mg	0.03126	10.0000	1.0296ng	10.2956ug/kg
4	RSD	100.00mg	0.03126	10.0000	1.0296ng	10.2956ug/kg
5	RSD	100.00mg	0.03166	10.0000	1.0429ng	10.4294ug/kg
6	RSD	100.00mg	0.03146	10.0000	1.0362ng	10.3625ug/kg
7	RSD	100.00mg	0.03146	10.0000	1.0362ng	10.3625ug/kg

Average: 10.3625, SD: 0.0511, RSD: 0.4931

RSD



DL

TestTimes: 15, Samp.Mode: ☐ Continued ☒ Interrupted

Pos.: ☒ Same ☐ Increase ☐ Decrease

Export ReCal.

NO.	Name	Mass	Absorbance
1	DL	100.00mg	0.00036
2	DL	100.00mg	0.00026
3	DL	100.00mg	0.00026
4	DL	100.00mg	0.00026
5	DL	100.00mg	0.00026
6	DL	100.00mg	0.00025
7	DL	100.00mg	0.00026
8	DL	100.00mg	0.00026
9	DL	100.00mg	0.00025
10	DL	100.00mg	0.00026
11	DL	100.00mg	0.00026
12	DL	100.00mg	0.00026
13	DL	100.00mg	0.00026
14	DL	100.00mg	0.00026
15	DL	100.00mg	0.00026

Average: 0.0003, SD: 0.0000, DL(ng) 0.0004

Detection Limit

BDHg-60L SnCl_2 - Cold Atomic Absorption Mercury Analyzer



Working principle

All mercury contained in the sample is converted into divalent mercury after digestion, and stannous chloride is used to reduce the divalent mercury into metallic mercury. The response value is measured at a wavelength of 253.7 nm. So mercury content is proportional to the response value.

Application

It is suitable for testing the mercury content in water, soil, biological samples, alloys and gas samples in different fields such as environment, geological and mining industries, disease prevention and control, etc.

Characteristic

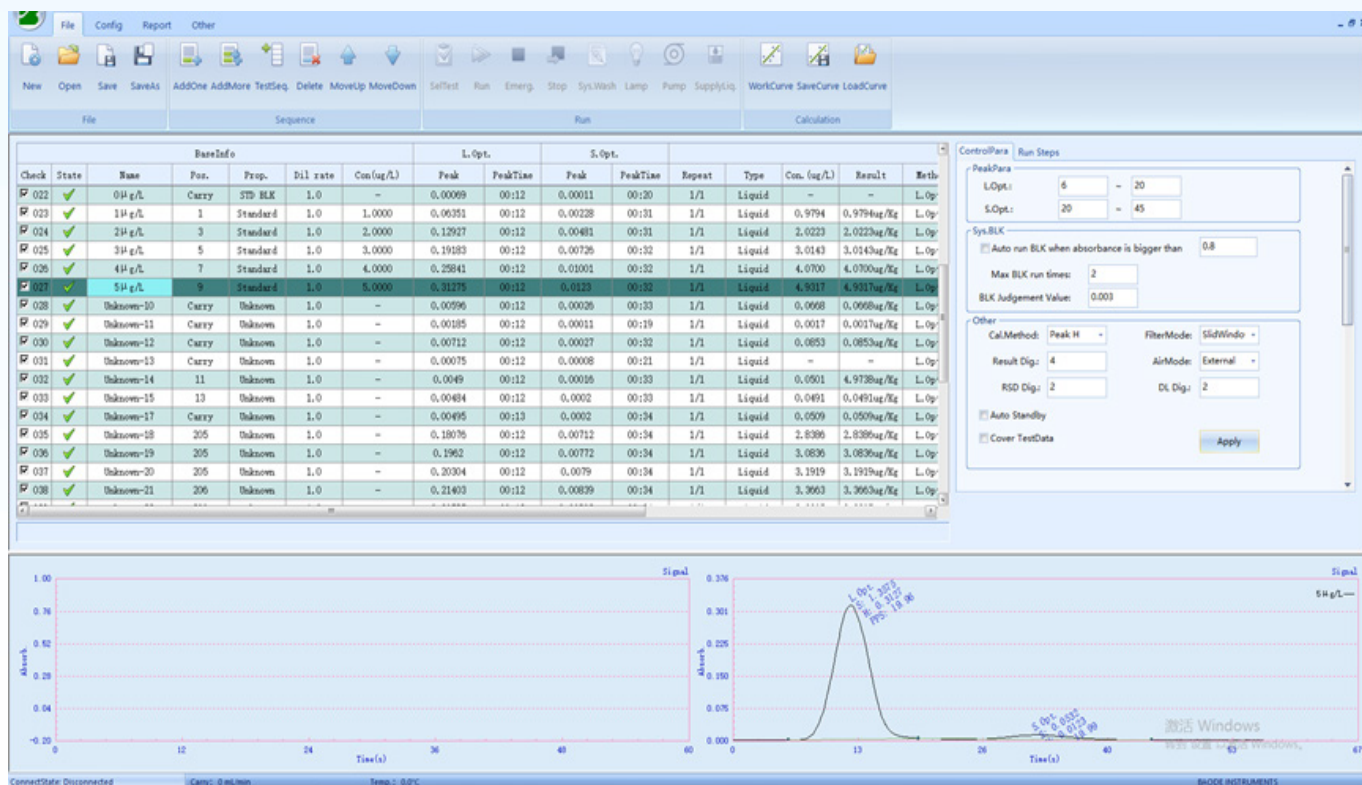
- A single sample test takes less than 2 minutes, special samples can be inserted or deleted at any time, and infinite loop testing is possible.
- Equipped with a selective mercury enrichment device, which improves the detection sensitivity.
- Constant-temperature double absorption cell design, which can meet the accurate detection of low concentrations and achieve a wider measurement range.
- Multi-stage gas-liquid separation and

semiconductor condensation water removal device, the system water removal effect is better and the mercury memory effect is smaller

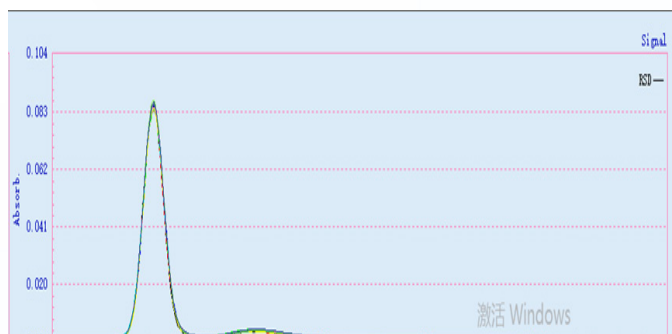
- Software with real-time monitoring of instrument status and sample detection status; real-time online automatic integration processing of measurement data.
- It has the switching function of built-in and external gas sources to meet different laboratory requirements.
- With single-point preparation of standard curve and automatic dilution of samples beyond the linear range, the test is faster and more accurate.
- Standards: EPA245.1/2/5, ASTM D3223-17, ISO12846

Technical indicators

- 4.1 Detection limit: $0.001\mu\text{g/L}$
- 4.2 Measuring range: $0-300\mu\text{g/L}$
- 4.3 Correlation coefficient $R > 0.999$
- 4.4 Precision (RSD) $\leq 1\%$
- 4.5 Measurement speed $< 2\text{min/sample}$
- 4.6 The sampling volume is 5mL. The instrument parameters can be adjusted to meet the injection requirements of different volumes.



Main interface



RSD

TestTimes: 11, Samp.Mode: ☐ Continued ☒ Interrupted, Apply

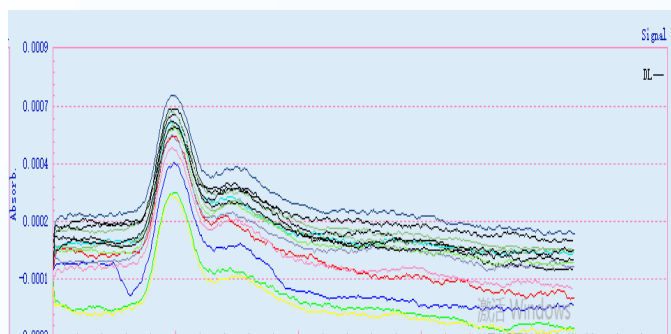
Pos.: ☒ Same ☐ Increase ☐ Decrease, Export, ReCal.

Cal.Method: ☐ Absorbance ☒ Con.

NO.	Name	Dilution	Absorbance	Set Con.	Con.	Result
☐ 1	RSD	1.0	0.08495	1.0000	1.0098	1.0098
☒ 2	RSD	1.0	0.08441	1.0000	1.0032	1.0032
☒ 3	RSD	1.0	0.08288	1.0000	0.9848	0.9848
☒ 4	RSD	1.0	0.08518	1.0000	1.0125	1.0125
☒ 5	RSD	1.0	0.08401	1.0000	0.9984	0.9984
☒ 6	RSD	1.0	0.08391	1.0000	0.9972	0.9972
☒ 7	RSD	1.0	0.08537	1.0000	1.0148	1.0148
☒ 8	RSD	1.0	0.08409	1.0000	0.9994	0.9994
☒ 9	RSD	1.0	0.08701	1.0000	1.0347	1.0347
☒ 10	RSD	1.0	0.08515	1.0000	1.0122	1.0122
☒ 11	RSD	1.0	0.08568	1.0000	1.0186	1.0186

Average: 1.0015, SD: 0.0101, RSD: 1.0

RSD



DL

TestTimes: 15, Samp.Mode: ☐ Continued ☒ Interrupted, Apply

Pos.: ☒ Same ☐ Increase ☐ Decrease, Export, ReCal.

NO.	Name	Dilution	Absorbance
☐ 1	DL	1.0	0.00047
☐ 2	DL	1.0	0.00050
☐ 3	DL	1.0	0.00050
☐ 4	DL	1.0	0.00043
☒ 5	DL	1.0	0.00053
☒ 6	DL	1.0	0.00049
☒ 7	DL	1.0	0.00049
☒ 8	DL	1.0	0.00051
☒ 9	DL	1.0	0.00053
☒ 10	DL	1.0	0.00050
☒ 11	DL	1.0	0.00050
☒ 12	DL	1.0	0.00050
☒ 13	DL	1.0	0.00051
☒ 14	DL	1.0	0.00050
☒ 15	DL	1.0	0.00049

Average: 0.0005, SD: 0.0000, DL(ug/L): 0.0005

Detection Limit

BASE-26 Automatic Solvent Extractor



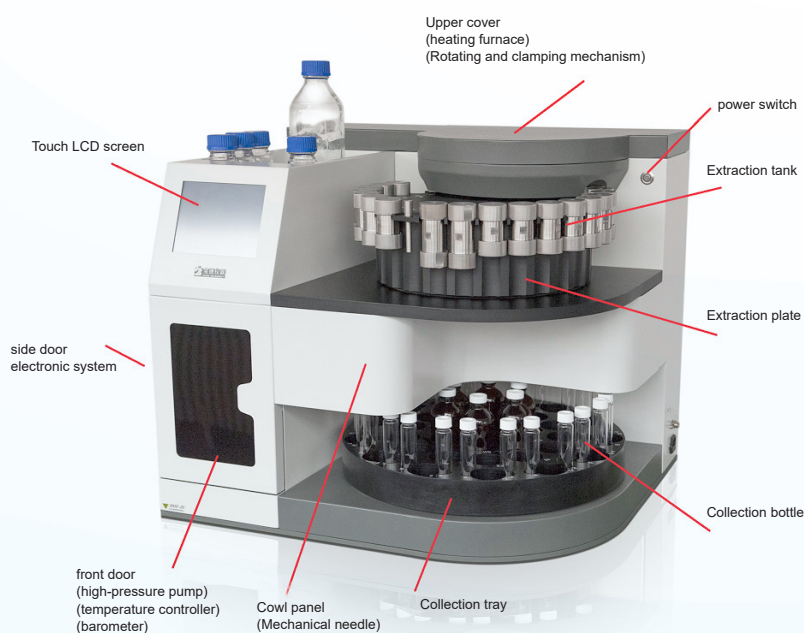
Automatic Solvent Extractor is a sample pre-treatment method from solid or semi-solid samples. It meets the standard of **EPA 3545A**.

Application

- Rapid extraction of target components from solid or semi-solid samples in soil, environmental, chemical, pharmaceutical, electronic products, agricultural and food products and some natural product samples.

Advantages

- Suitable for existing chromatography, chromatography-mass spectrometry Analytical instrument sample preprocessing.
- Solvent loading, heating, pressurization, extraction, rinsing, filtration, purification, collection, and nitrogen blowing are all completed automatically.
- Save time: Extraction time: < 20min, compared with Soxhlet and Ultrasonic extraction, save a lot of time.
- Save solvents : 11ml-100ml
- High pressure: Keep the solvent in liquid state to ensure the safety of extraction process.



Main Parameter

- Temperature: room temperature ~210°C .
- Pressure: 0-20MPa
- Volume: 11ml, 22ml, 33ml, 66ml, 100ml
- Extraction time: < 20min



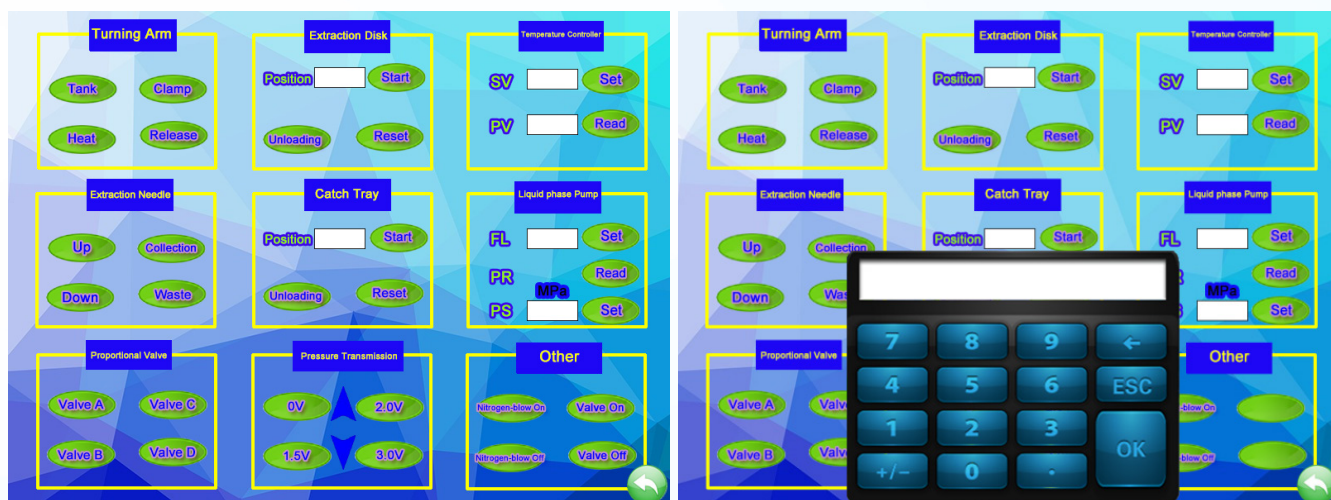
Self - Check Interface



Quick Function Interface



Sample Extraction Position



Debugging Interface

BASE-30 Automatic Solvent Extractor



BASE-30

Rapid solvent extraction technology is a pre-treatment technology developed in recent years that uses organic solvents to extract components to be measured in solid and semi-solid samples at higher temperatures (50-200° C) and higher pressures.

Application

Rapid extraction of target components from solid or semi-solid samples in soil, environmental, chemical, pharmaceutical, electronic products, agricultural and food products and some natural product samples.

Advantages

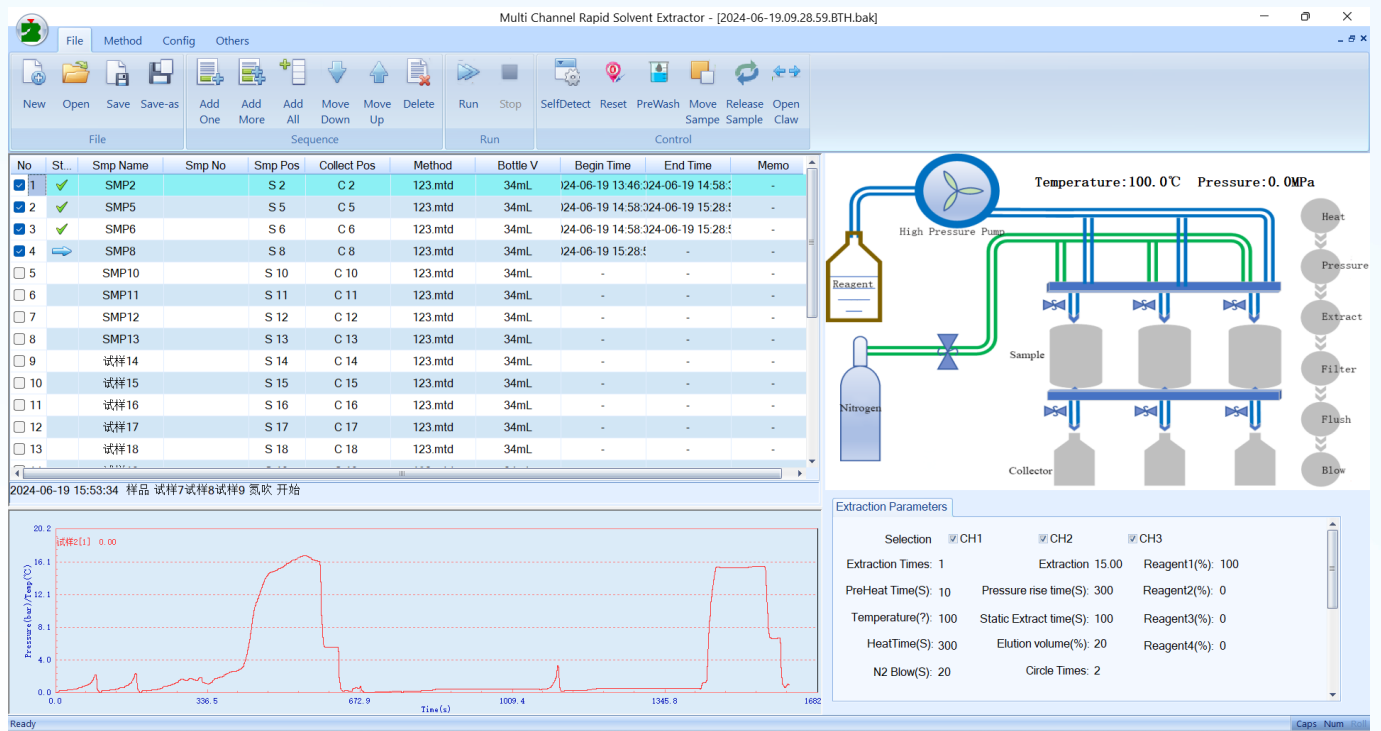
- Suitable for existing chromatography, chromatography-mass spectrometry Analytical instrument sample preprocessing.
- Solvent loading, heating, pressurization, extraction, rinsing, filtration, purification, collection, and nitrogen blowing are all completed automatically.
- Three samples can be extracted simultaneously at one time, and each round can automatically complete the extraction of up to 30 samples.
- The entire extraction process can be unattended. If any operation is abnormal, it can alarm automatically and stop working if abnormal
- Meet single-channel and double-channel extraction at the same time, and multiple modes can meet various experimental needs.

Performance indicators

- Overall dimension: 1100*670*730mm
- Full circumferential heating furnace design, temperature control range: room temperature ~ 200° C;
- Extraction tank volume: 34ml, 66ml,
- Extraction time: Three-channel extraction is about 30 minutes for 3 samples, each sample:10 minutes;

Standard:

- EPA 3545A



No.	Items	St...	Memo	
1	Master	✓	Passed	
2	Claw	✓	Passed	
3	Z-Axis	✓	Passed	
4	X-Axis	✓	Passed	
5	Y-Axis	✓	Passed	
6	High Pressure Cylinder	✓	Passed	
7	Collection Motor	-	-	
8	High-Pressure Pump	-	-	
9	Nitrogen System	-	-	

Run

Stop

OK

BCOD_{Mn}-60S Automatic Permanganate Index Analyzer



Introduction

BCOD_{Mn}-60S Automatic Permanganate Index Analyzer, developed and manufactured by Beijing Baode Instrument Co., Ltd. is suitable for analyzing permanganate index, total hardness, iodine content in salt, and chemical oxygen demand in seawater.

BCOD_{Mn}-60S can determine the titration time, temperature, and titration endpoint, saving manpower and time costs while improving detection accuracy.

Application

Environment, disease control, marine monitoring, water conservancy, and hydrology industries.

Test Items

- Detection of permanganate index in drinking water, source water, and surface water. It supports both acidic and alkaline analysis, with a measurement range of 0.05-5.0 mg/L.
- Determining the total hardness of drinking water and its source water using the disodium ethylenediaminetetraacetate titration method.
- Determining the iodine content in table salt, including direct titration and redox titration methods.
- Determining the chemical gas demand (COD) in seawater, specifically in ocean and nearshore seawater and estuaries.
- Analysis of various colorimetric titration items such as total water hardness, salt iodine, water chlorides, and COD_{Cr}.

Characteristic

BCOD_{Mn} - 60S Automatic Permanganate Index Analyzer requires no manual intervention throughout the entire process, automatically completing reagent addition, water bath heating, color titration, analysis and result calculation.

Sample Tray Unit

- Employs 3D robotic arm technology for accurate sample gripping and release from different positions.
- Contains at least 60 sample trays for placing test samples; includes one liquid addition level (with stirrer).

Digestion Unit

- Includes a 12-position micro-boiling water bath and a water bath replenishment system.
- Utilizes micro-boiling circulating water bath digestion with an automatic opening and closing lid design to effectively prevent water vapor escape, eliminating the need for an additional ventilation system.
- Features automatic water supply and drainage to maintain the water bath level.
- Includes a low-liquidity alarm and protection.
- Precise temperature control; automatically adjusts heating power based on real-time temperature for high reliability.

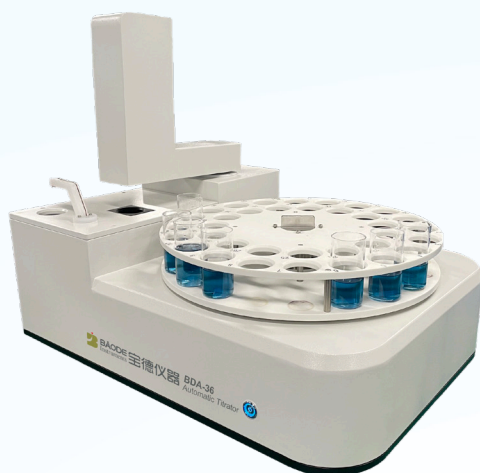
Detection Unit

- A highly sensitive detection unit containing independent detection channels allows for rapid and accurate determination of the titration endpoint.
- The titration process simulates manual titration (slow-fast-slow titration), perfectly replicating human eye color recognition. The instrument is suitable for analyzing various color titration items such as total hardness, salt iodine, and chloride in water. Sensor data is recorded and displayed in real time during the titration process.

Cooling Unit

For salt iodine oxidation-reduction methods and chemical oxygen demand (COD) methods in seawater, a cooling unit is added to the instrument. The cooling system circulates within the water area, eliminating the need for an external cooling device.

BDA-36 Automatic Titrator



Intruduction

BDA-36 Automatic Titrator, developed and manufactured by Beijing Baode Instrument Co., Ltd., can analyze various parameters, including salt iodine, total water hardness, Chloride in water, water cyanide, chemical oxygen demand (COD), and oxygen consumption (permanganate index), through colorimetric titration automatically.

Applications

- Determining iodine in iodized table salt containing added iodate.
- Determining the total hardness of drinking water and its source water using the disodium ethylenediaminetetraacetate titration method.
- Analysis of water quality by color titration, including chloride, cyanide, chemical oxygen demand (COD), and oxygen consumption (permanganate index).

Characteristic:

- Simulates manual titration speed, employing a slow-fast-slow titration method for high detection efficiency.
- High-precision titration pump with excellent stability, requiring no calibration.
- RGB full-gamut recognition system enables automatic analysis of various color titration items.
- Polar coordinate robotic arm technology; the disc-type sample tray allows for accurate sample gripping and release from different positions.
- One-click switching between different detection items eliminates the need for additional accessories.
- The reagent addition unit includes outlet and inlet tubing, four dispensing pumps, and one titration pump. The outlet and inlet tubing use FEP fully chemically inert transparent tubing; dispensing pumps have a 5mL volume with a dispensing accuracy of 0.01mL; the titration pump has a minimum titration volume of 0.025mL.

Technical Specifications

Water Chloride Ion Method

1) Method Principle:	Silver nitrate titration
2) Minimum Detection Concentration:	25 mg/L
3) Precision (RSD):	$\leq 3\%$
4) Accuracy:	Within the range specified for quality control samples
5) Sample Testing Frequency:	4 min/sample

Total Hardness Method

1) Method Principle:	Disodium EDTA titration
2) Minimum Detection Concentration:	1 mg/L
3) Precision (RSD):	$\leq 2\%$
4) Accuracy:	Within the range specified for quality control samples
5) Sample Testing Frequency:	3 min/sample

Salt Iodine Method

1) Method Principle:	Sodium thiosulfate titration
2) Detection Range:	0-200 mg/kg
3) Precision (RSD):	$\leq 2\%$
4) Accuracy:	± 2 mg/kg
5) Sample Detection Frequency:	4 min/sample

Water Total Alkalinity Method

1) Method Principle:	Volumetric method
2) Minimum Detection Concentration:	4 mg/L
3) Precision (RSD):	$\leq 2\%$
4) Accuracy:	Within the range specified for quality control samples
5) Sample Testing Frequency:	3 min/sample

Acid Value Determination in Petroleum

1) Method Principle:	Potassium hydroxide-ethanol standard solution titration method
2) Precision (RSD):	$\leq 2\%$
3) Sample Testing Frequency:	4 min/sample

Methods for Calcium, Magnesium, and Sulfate in Salt Production

1) Method Principle:	Disodium ethylenediaminetetraacetate titration
2) Precision (RSD):	$\leq 2\%$
3) Accuracy:	Within the range specified for quality control samples
4) Sample Testing Frequency:	10 min/group (each group includes three indicators for one type of sample)

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