



**National Metrology Technical Specifications of
the People's Republic of China**

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**Program of Pattern Evaluation of
Ammonia-Nitrogen Automatic Analyzers
氨氮自动监测仪型式评价大纲**

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Program of Pattern Evaluation of Ammonia-Nitrogen Automatic Analyzers

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Foreword

This program of pattern evaluation is prepared on the basis of JJF 1016 '*The Rules for Drafting Program of Pattern Evaluation of Measuring Instruments*', JJF 1015 '*General Norm for Pattern Evaluation and Pattern Approval of Measuring Instruments*', and JJF 1001 '*General Terms in Metrology and Their Definitions*'. The technical index of this program of pattern evaluation has referred to JJG 631-2013 '*Ammonia-Nitrogen Automatic Analyzers*', GB/T11606—2007 '*Methods of Environmental Test for Analytical Instruments*' and other technical regulations and standards. This is the first release of the program of pattern evaluation.

Program of Pattern Evaluation of Ammonia-Nitrogen Automatic Analyzers

1 Scope

This program of pattern evaluation is applicable to the pattern evaluation of the Ammonia-Nitrogen automatic analyzer based on the electrode method and spectrophotometric method.

2 Normative references

JJG 631-2013 Ammonia and Nitrogen Automatic Analyzer

GB/T 11606-2007 Analyzer Instrument Environmental Testing Method

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3 General

Ammonia-Nitrogen automatic analyzer can continuously monitor the Ammonia-Nitrogen concentration of the water body such as underground water, surface water and industrial wastewater. Measurement methods for Ammonia-Nitrogen automatic analyzer (hereinafter referred to as instrument) include spectrophotometric method and electrode method. Spectrophotometric method includes salicylic acid spectrophotometric method and nessler reagent spectrophotometric method etc., the principle is ammonia or ammonium ion under free state in the water sample will color developed after reacting with indicator, the absorbance and Ammonia-Nitrogen content of the solution at specified wave length are in direct proportion, on this account the quantitative analysis for Ammonia-Nitrogen in the water sample is realized. Electrode method includes air-sensitive electrode method and ion selective electrode method, the Ammonia-Nitrogen content in the water sample will be obtained through measurement of electrode potential. Instruments mainly consist of sampling unit, water sample treatment unit, detection unit, data collection and processing unit, display and transmission unit and other units.



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