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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 25476-2010

Tunable laser gas analyzer

可调谐激光气体分析仪

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Foreword

The standard proposed by China Machinery Industry Federation. This standard by the national industrial process measurement and control Standardization Technical Committee (SAC/TC124) centralized. This standard by the FPI (Hangzhou) Co., Ltd. is responsible for drafting, Hangzhou University of Electronic Science and Technology, Shanghai Institute of Measurement and Testing, Beijing North sub-Mai Hake Analytical Instruments Co., Ltd., Beijing Institute analysis instruments, etc. participated in the drafting. The main drafters of this standard. Wang Jian, Chen people, Guo Xiaowei, Wang Xinyuan, Cai Jianhua, Guo Chao new, Maya Juan. Tunable laser gas analyzer

1 Scope

GB/T 25476-2010 is the Chinese national standard on tunable laser gas analyzer, in the field of chemical technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 1 December 2010 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 May 2011. Classification: ICS 71.040.01, CCS N53. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the tunable laser gas analyzer requirements, test methods, inspection rules, packaging, transportation, storage and so on. This standard applies to the use of tunable diode laser absorption spectroscopy techniques to measure gas or vapor in one or a few gas component Concentration tunable laser gas analyzer (hereinafter referred to as the instrument).

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 191-2008 Packaging - Pictorial signs (ISO 780.1997, MOD)

GB/T 2829-2002 periodic inspection Sampling procedures and tables (suitable for process stability test)

GB 4793.1-2007 measurement, control and laboratory use safety requirements for electrical equipment - Part 1. General requirements (IEC 61010-1. 2001, IDT)

GB 7247.1-2001 Safety of laser products - Part 1. Equipment classification, requirements and user guide (IEC 60825-1.1993, IDT)

GB/T 11606-2007 analytical instruments environmental test methods

GB/T 13384-2008 mechanical and electrical products packaging General technical conditions

GB/T 17626.2-2006 Electromagnetic compatibility - Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2.2001, IDT)

GB/T 17626.3-2006 Electromagnetic compatibility - Testing and measurement techniques RFEMS test (idt IEC 61000-4-3. 2002)

GB/T 17626.4-2008 Electromagnetic compatibility - Testing and measurement techniques - Electrical fast transient burst immunity test (

IEC 61000-4-4. 2004, IDT)

GB/T 17626.5-2008 Electromagnetic compatibility - Testing and measurement techniques - Surge (impact) immunity test (

IEC 61000-4-5. 2005, IDT)

GB/T 17626.11-2008 Electromagnetic compatibility Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity Test (

3 Terms and Definitions

Terminology The following terms and definitions GB/T 18403.1-2001 definitions apply to this standard.

3.1 Tunable diode laser absorption spectroscopy technique

TunableDiodeLaserAbsorptionSpectroscopy By changing the semiconductor laser operating current or temperature and other parameters of the laser output wavelength

tuning, scanning a gas to be measured to give a Or tuft absorption spectrum absorption spectrum, absorption spectrum here includes direct absorption spectra, wavelength modulation spectroscopy, frequency modulation spectroscopy, or cavity Enhanced absorption spectra by analyzing the absorption spectrum can be obtained density information measured gas.

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