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INDUSTRY STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

SN/T 4007-2013

Determination of volatile organic compounds in electrical and electronic products. Gas chromatography/Mass spectrometry method

电子电气产品中挥发性有机化合物的测定 气相色谱/质谱法

(English Translation)

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Foreword

This standard was drafted in accordance with GB/T 1.1-2009 given rules.

This standard is proposed and managed by the National Certification and Accreditation Administration Committee.

This standard was drafted. Shenzhen Inspection and Quarantine Science Research Institute, Shenzhen People's Republic of China Exit Inspection and Quarantine.

1 Scope

This standard specifies the electrical and electronic products as benzene, toluene, o - xylene, m - xylene, p - xylene, ethylbenzene, butyl acetate, styrene and the total emission of volatile organic compound emissions were released small cabin - gas chromatography/mass spectrometry.

This standard applies to electrical and electronic products, benzene, toluene, o - xylene, m - xylene, p - xylene, ethylbenzene, butyl acetate, styrene Determination of electrical and electronic products as well as emissions of total volatile organic compound emission.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member, undated references, the latest edition (including any amendments) applies to this document.

--- ISO 16000-6 Indoor air - Part 6. TenaxTA adsorbent active sampling, thermal desorption and MS/FID Gas Chromatography Determination of indoor and test chamber air of volatile organic compounds (Indoorair-Part 6. Determinationofvolatileorganic compoundsinindoorandtestchamberairbyactivesamplingonTenaxTAsorbent.Thermaldesorptionandgaschromatographyusing MS/FID) ISO 16000-9 Indoor air -- Part 9. Building decoration materials release volatile organic compounds - Determination - release test chamber method (Indoorair-Part 9.

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Determinationofvolatileorganiccompoundsfrombuildingproductsandfurnish-ing-Emissiontest chambermethod)

3 Terms and Definitions

The following terms and definitions apply to this document.

Total Volatile Organic Compounds (TVOCs) Gas chromatography, the retention time of the sum of the organic compound between n-hexane positive hexadecane (including n-hexane and n-hexadecane) is.

The chromatographic peak integration area, the relative correction factor to calculate the content of toluene.

VOC volatileorganiccompounds (VOCs) Test specimens released, detected in the cabin at the outlet of the air release all volatile organic compounds. Sample selection and analysis Volatile organic compounds known as "target VOCs" (mark of VOCs), including benzene, toluene, o - xylene, m - xylene, of - p-xylene, ethylbenzene, butyl acetate, styrene eight kinds of compounds.

Air exchange rate the ratio per unit time released into the cabin air volume and the effective volume of the tank is released, a negative side in hours (h-1).

Air flow rate airvelocity the air velocity, the sample surface, in meters per second (m/s).

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