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NATIONAL ENVIRONMENTAL PROTECTION STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

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Determination of Volatile Organic Compounds and
Carbonyl Compounds in Cabin of Vehicles
车内挥发性有机物和醛酮类物质采样测定方法

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Determination of Volatile Organic Compounds and Carbonyl Compounds in Cabin of Vehicles

1 SCOPE

This Standard specifies the arrangement of sampling points, technical requirements for sampling environment conditions, sampling methods and apparatus, corresponding measurement methods and apparatus, data processing, and quality assurance, for the measurement of the volatile organic compounds and carbonyl compounds in passenger cabin of motor vehicles.

This standard is applicable to the sampling and measurement of volatile organic compounds and carbonyl compounds in the passenger cabin when the vehicle is stationary.

2 NORMATIVE REFERENCES

This standard refers to the provisions contained in the following normative documents. For undated references, the latest editions of the normative document apply.

GB/T 15089 Classification of power-driven vehicles and trailers

3 TERMS AND DEFINITIONS

For the purposes of this standard, the following terms and definitions apply.

3.1

Vehicles of Category M₁, M₂, M₃ and N
As defined in GB/T 15089:

Category M₁ refers to the motor vehicles which have at least four wheels and are used for the carriage of passengers; passenger vehicles comprise not more than 9 seats including the driver's seat.

Category M₂ refers to the motor vehicles which have at least four wheels and are used for the carriage of passengers; passenger vehicles comprise more than 9 seats including the driver's seat and have a maximum design total mass not exceeding 5,000 kg.

Category M₃ refers to the motor vehicles which have at least four wheels and are used for the carriage of passengers; passenger vehicles comprise more than 9 seats including the driver's seat and have a maximum design total mass exceeding 5,000 kg.

Category N refers to the motor vehicles which have at least four wheels and are used for the carriage of goods.

3.2

Volatile organic compounds (VOCs)

a collective name for the volatile compounds which are sampled on sorbent, e.g., tenax, and separated by a gas chromatographic column with a polarity index less than 10, and of which the retention time is between n-hexane and n-hexadecane



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