

ICS 43.040
CCS T 41



中华人民共和国国家标准
NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 41798-2022

**Intelligent and Connected Vehicles—Track Testing
Methods and Requirements for Automated Driving
Functions**

智能网联汽车 自动驾驶功能场地试验方法及要求

Issued on 2022-10-12

Implemented on 2023-05-01

Jointly Issued by

State Administration for Market Regulation of the People's Republic of China &
Standardization Administration of the People's Republic of China

CONTENTS

Foreword	III
Introduction	IV
1 Scope	1
2 Normative References	1
3 Terms and Definitions	1
4 General Requirements	2
4.1 Test Track and Test Environment	2
4.2 Test Equipment and Data Collection	2
4.3 Requirements for Vehicle under Test	3
5 Test Process and Pass Criteria.....	3
5.1 Process Management.....	3
5.2 Test Pass Criteria	3
6 Test Methods	4
6.1 Traffic Signals Detection and Response.....	4
6.2 Road Traffic Infrastructure and Obstacles Detection and Response	9
6.3 Pedestrians and Non-Motor Vehicles Detection and Response	14
6.4 Adjacent Vehicle Driving Status Detection and Response	15
6.5 Automatic Emergency Escape	18
6.6 Park	20
6.7 Dynamic Driving Task (DDT) Intervention and Takeover	21
6.8 Minimum Risk Maneuver (MRM)	21
Annex A (Informative) Test Methods in the Nighttime and Special Weather Conditions	23
A.1 General.....	23
A.2 Test Method in the Nighttime.....	23
A.3 Test Method in Special Weather Conditions.....	23
Annex B (Normative) Classification and Selection of Test Items.....	24
B.1 General.....	24
B.2 Selection of Test Items	24

Intelligent and Connected Vehicles—Track Testing Methods and Requirements for Automated Driving Functions

1 Scope

This document specifies the general requirements, testing process, pass criteria, and test methods for automated driving functions of intelligent and connected vehicles (ICV) during track testing.

This document is applicable to Categories M and N vehicles having automated driving functions, while other vehicles may use this document as a reference.

2 Normative References

The following referenced documents are indispensable for the application of this document. For dated references, only the editions cited apply. For undated references, the latest editions of the normative document (including any amendments) apply.

GB 5768 (all parts)	Road traffic signs and markings
GB 14886	Specifications for road traffic signal setting and installation
GB 14887	Road traffic signal lamps
GB/T 24720	Traffic cones
GB/T 24973	Toll electric barrier
GB/T 40429	Taxonomy of driving automation for vehicles

3 Terms and Definitions

For the purposes of this document, the terms and definitions given in GB/T 40429 and the followings apply.

3.1

automated driving function

a generic term for driving automation functions of Level 3 and above as specified in GB/T 40429, including “conditionally automated driving”, “highly automated driving” and “fully automated driving” functions

3.2

vehicle under test (VUT)

the vehicle subjected to the automated driving function testing

3.3

object target

the traffic participants and barriers used to construct the testing scenario

3.4

vehicle target (VT)

the passenger cars in volume production used to construct the testing scenario

3.5

automated driving mode

the mode in which the automated driving system performs all dynamic driving tasks



ChinaAutoRegs

中国汽车标准译文库

The following pages are left blank intentionally.

- 现成译文，到款即发。
 - 下单前可任取样页验证译文质量。
 - 免费提供正规普通增值税数电发票。
 - 请联系手机/微信: [13306496964](tel:13306496964)/Email: standardtrans@foxmail.com 获取完整译文。
 - 本英文译本为纯人工专业精翻版本，保证语法术语准确率和专业度！
 - 专业源于专注|ChinaAutoRegs 始终专注于汽车标准翻译领域！
 - 「中国汽车标准译文库」已收录上千个现行汽车国家标准和行业标准的英文版译本，涵盖传统燃油车、新能源汽车和摩托车标准化体系！独家打造千万级汽车专业术语库和记忆库。

 - ◆ The English Translation of this document (GB, GB/T, QC/T, CNCA, CQC, CAV, etc.) is readily available, and delivered immediately upon payment.
 - ◆ You may request for sample pages to your preference before placing an order.
 - ◆ Please contact standardtrans@foxmail.com for the complete PDF version in English.
 - ◆ Almost all of Chinese automotive/automobile standards, regulations and norms in effect have been included in our well-established database, providing one-stop, up-to-date, efficient and professional solution.
-