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**NATIONAL STANDARD OF THE
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Replacing GB 34660-2017

**Road vehicles - Requirements and test methods of
electromagnetic compatibility**

道路车辆 电磁兼容性要求和试验方法

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Table of Contents

1 Scope

This document specifies the electromagnetic emission limits and the immunity of vehicles and of their electrical and electronic sub-assemblies, and describes the corresponding test methods.

It applies to vehicles of categories M, N and L, and to their electrical and electronic sub-assemblies.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document, including any amendments, applies.

GB/T 6113.104-2021 Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-4: Antennas and test sites for radiated disturbance measurements · GB/T 21437.2-2021 Road vehicles - Test methods for electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only · GB/T 29259-2012 Road vehicles - Electromagnetic compatibility terminology · GB/T 33012.1-2016 Road vehicles - Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 1: General · GB/T 33012.2-2016 Road vehicles - Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2: Off-vehicle radiation sources · GB/T 33014.1-2016 Road vehicles - Component test methods - Part 1: General · GB/T 33014.2-2025 Road vehicles - Component test methods - Part 2: Absorber-lined shielded enclosure · GB/T 33014.3-2016 Road vehicles - Component test methods - Part 3: Transverse electromagnetic (TEM) cell · GB/T 33014.4-2025 Road vehicles - Component test methods - Part 4: Harness excitation methods · GB/T 33014.5-2016 Road vehicles - Component test methods - Part 5: Stripline · GB/T 33014.11-2023 Road vehicles - Component test methods - Part 11: Reverberation chamber · ISO 11451-2:2025 Road vehicles - Vehicle test methods - Part 2: Off-vehicle radiation sources · ISO 11451-5:2023 Road vehicles - Vehicle test methods - Part 5: Reverberation chamber · CISPR 12:2005 Vehicles, boats and internal combustion engine driven devices - Radio disturbance characteristics · CISPR 25:2021 Vehicles, boats and internal combustion engines - Radio disturbance characteristics for the protection of on-board receivers

3 Terms and definitions

For the purposes of this document, the following terms and definitions, together with those given in GB/T 29259-2012, apply.

3.1 electrical/electronic sub-assembly, ESA. Electrical or electronic equipment or components, with the electrical connections that enable them to perform one or more specified functions.

4 Requirements

4.1.1 Under normal operating conditions, the design, manufacture and installation of a vehicle shall meet the requirements of 4.2, 4.3 and 4.4. For an ESA submitted for type inspection that meets the applicability criteria of Appendix A, the design, manufacture and installation shall meet the requirements of 4.5, 4.6, 4.7, 4.8 and 4.9 under normal operating conditions.

4.1.2 Where the operating state of the test equipment, the functional excitation conditions, the monitored functions, the failure criteria or intentional transmissions are not expressly specified in this document, the vehicle manufacturer and the testing organisation shall agree a test plan before the test.

4.2.1 When tested according to 5.1 by the 10 m method, the vehicle broadband radiated emission results shall be below the limits of Table 1 and Figure 1.

4.2.2 When tested according to 5.1 by the 3 m method, the vehicle broadband radiated emission results shall be below the limits of Table 2 and Figure 2.

5 Test methods

The test methods are carried out in accordance with the annexes: vehicle broadband radiated emission per Appendix B; vehicle narrowband radiated emission per Appendix C; vehicle radiated immunity per Appendix D; ESA broadband radiated emission per Appendix E; ESA narrowband radiated emission per Appendix F; ESA radiated immunity per Appendix G; ESA transient conducted immunity along supply lines per Appendix H; and ESA transient conducted emission per Appendix I.

6 Determination of the same type

6.1 The vehicle manufacturer submits the application for electromagnetic compatibility type inspection. The vehicle broadband radiated emission test, the narrowband radiated emission test and the radiated immunity test are carried out in accordance with Table 11. Where several configurations exist, full coverage at component or system level is permitted: once every relevant component or system listed in Table 11 has been verified at vehicle

level, combined testing is no longer required. Where any of the components or systems listed in Table 11 is changed, a new vehicle test shall be carried out.

6.1 d) For vehicles built on a Category II chassis, testing of the chassis is permitted and the vehicle is deemed to comply on the basis of those results. For a Category II chassis with a kerb mass above 30 t, and for a single-unit vehicle with a kerb mass above 30 t, the vehicle radiated immunity test is not required. For Category II chassis and vehicles with four or more axles, the vehicle radiated immunity test of the anti-lock braking system is not required.

6.2 Vehicles of the same type for the purposes of electromagnetic compatibility are those that do not differ substantially in the aspects listed in Table 11.