ISO 11451-2:2025-06 (E)

Road vehicles - Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2: Off-vehicle radiation sources

Contents

Page

Foreword ... **iv**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 Test conditions ... **2**

5 Test location ... **2**

6 Test instrumentation ... **4**
6.1 General ... 4
6.2 Field generating device ... 4
6.3 Field probes ... 5
6.4 Stimulation and monitoring of the device under test (DUT) ... 5

7 Test set-up ... **6**
7.1 General ... 6
7.2 Vehicle placement ... 6
7.3 Field generating device location (relative to vehicle and shielded enclosure) ... 6
7.3.1 General ... 6
7.3.2 Antenna constraints ... 6
7.3.3 TLS constraints ... 6
7.4 Vehicle test configurations ... 7
7.4.1 General ... 7
7.4.2 Vehicle not connected to the power grid ... 7
7.4.3 Vehicle in charging mode 1 or mode 2 (AC powered, without communication) ... 8
7.4.4 Vehicle in charging mode 3 or mode 4 (AC or DC powered, with communication) ... 11
7.4.5 Vehicle in charging mode through WPT ... 16

8 Test procedure ... **17**
8.1 General ... 17
8.2 Test plan ... 17
8.3 Test method ... 18
8.3.1 General ... 18
8.3.2 Field calibration ... 18
8.3.3 Vehicle test ... 26
8.4 Test report ... 29

Annex A (informative) **Function performance status classification (FPSC)** ... **30**

Annex B (informative) **Evaluation of test instrumentation uncertainty** ... **31**

Annex C (informative) **Testing with multiple signals** ... **35**

Annex D (informative) **Guidelines for testing large vehicles** ... **39**

Bibliography ... **42**