ISO/IEC 18046-1:2011-10 (E)

Information technology - Radio frequency identification device performance test methods - Part 1: Test methods for system performance

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 1

4 Abbreviated terms 2

5 Conditions applicable to the test methods 2
5.1 Selection of the tests 2
5.2 Selection of the devices to be tested 2
5.3 Test environment 2
5.4 RF environment 2
5.5 Pre-conditioning 3
5.6 Default tolerance 3
5.7 Total measurement uncertainty 3
5.8 Test Read and Write 3
5.9 Test speed motion 3
5.10 Test mounting material 3
5.11 Test communication parameters 3
5.12 Test equipment limits 3
5.13 Human exposure to EMF 4
5.14 Test result reporting 4
5.15 Tag arrangement 4

6 Inductive systems 5
6.1 Portable Interrogator 5
6.2 Interrogator with one side antenna(s) configuration 10
6.3 Interrogator gate antenna configuration 19
6.4 Interrogator 3 dimension antenna configuration (tunnel) 25

7.1 Portable Interrogator 31
7.2 Interrogator with one side antenna(s) configuration 36
7.3 Interrogator gate antenna configuration 47
7.4 Interrogator 3 dimension antenna configuration (tunnel) 52

8.1 Fixed Interrogator 61

Annex A (Normative) Table of general parameters for the test report 64

Bibliography 65