

ISO/IEC 18047-6:2025-11 (E)

Information technology - Radio frequency identification device conformance test methods - Part 6: Test methods for air interface communications at 860 MHz to 930 MHz

Contents		Page
	Foreword.....	v
	Introduction.....	vi
1	Scope	1
2	Normative references	1
3	Terms, definitions, symbols and abbreviated terms	2
	3.1 Terms and definitions.....	2
	3.2 Symbols.....	2
	3.3 Abbreviated terms.....	3
4	Default conditions applicable to the test methods	3
	4.1 Test environment.....	3
	4.2 Pre-conditioning.....	3
	4.2.1 General.....	3
	4.2.2 Default tolerance.....	3
	4.2.3 Noise floor at test location.....	3
	4.2.4 Total measurement uncertainty.....	4
5	Setup of test equipment	4
	5.1 Setup of test equipment for interrogator tests.....	4
	5.1.1 General.....	4
	5.1.2 Sense antenna.....	4
	5.1.3 Test apparatus and test circuits for ISO/IEC 18000-61, ISO/IEC 18000-62 and ISO/IEC 18000-64 interrogator.....	4
	5.2 Setup of test equipment for tag tests.....	5
	5.2.1 General.....	5
	5.2.2 Test apparatus and test circuits for ISO/IEC 18000-61, ISO/IEC 18000-62 and ISO/IEC 18000-64 tags.....	6
6	Conformance tests for ISO/IEC 18000-61	7
	6.1 Functional tests of interrogator.....	7
	6.1.1 Interrogator modulation test.....	7
	6.1.2 Interrogator demodulation and turn-around time.....	8
	6.2 Functional tests of tag.....	9
	6.2.1 Tag demodulation and turn-around time.....	9
	6.2.2 Tag backscatter.....	10
	6.2.3 Tag response time.....	11
	6.2.4 Tag bit rate.....	12
	6.2.5 Tag state storage time.....	13
7	Conformance tests for ISO/IEC 18000-62	13
	7.1 Functional tests of interrogator.....	13
	7.1.1 Interrogator modulation test.....	13
	7.1.2 Interrogator demodulation and turn-around time.....	14
	7.2 Functional tests of tag.....	15
	7.2.1 Tag demodulation and turn-around time.....	15
	7.2.2 Tag backscatter.....	16
	7.2.3 Tag response time.....	17
	7.2.4 Tag bit rate.....	18
	7.2.5 Tag state storage time.....	19

8	Conformance tests for ISO/IEC 18000-64	20
8.1	Functional tests of interrogator.....	20
8.1.1	Interrogator modulation test.....	20
8.1.2	Interrogator demodulation and data decoding.....	20
8.2	Functional tests of tag.....	22
8.2.1	General.....	22
8.2.2	Data encoding.....	23
8.2.3	Link bits.....	24
8.2.4	Tag timing parameters.....	25
8.2.5	Tag bit rate.....	27
8.2.6	Tag multi-page timing.....	27
8.2.7	Tag LBT.....	28
	Annex A (normative) Test measurement site	29
	Annex B (normative) Command coding for conformance tests for the different types of ISO/IEC 18000-6	40
	Annex C (normative) Technical performance of the generic electronic test instruments	41
	Annex D (normative) Tag emulator	42
	Annex E (informative) Measurement examples	44
	Bibliography	46