

ISO/IEC 18046-2:2011-03 (E)

Information technology - Radio frequency identification device performance test methods - Part 2: Test methods for interrogator performance

| Contents | | Page |
|--------------------|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 2 |
| 4 | Symbols and abbreviated terms | 2 |
| 5 | Conditions applicable to the test methods | 2 |
| 5.1 | Number of interrogator to be tested | 2 |
| 5.2 | Test environment | 2 |
| 5.3 | RF environment | 3 |
| 5.4 | Pre-conditioning | 3 |
| 5.5 | Default tolerance | 3 |
| 5.6 | Total measurement uncertainty | 3 |
| 5.7 | Test result reporting | 3 |
| 5.8 | Test communication parameters | 3 |
| 5.9 | Test equipment limits | 3 |
| 5.10 | Human exposure to EMF | 3 |
| 6 | Setup of test equipment for interrogator test | 4 |
| 7.1 | Interrogator Sensitivity in Listen Mode (Receiving Mode) | 6 |
| 7.2 | Interference rejection (IRejection) | 7 |
| 7.3 | Maximum Electromagnetic field exposure (MEexposure) | 9 |
| 7.4 | Ratio between field radiated and power consumption | 9 |
| 7.5 | Field strength distribution | 10 |
| 8.1 | General | 11 |
| 8.2 | Inductive UHF interrogators | 11 |
| 9.1 | Identification electromagnetic field threshold (ETHR Identification) and frequency tolerance | 12 |
| 9.2 | Reading/Writing electromagnetic field threshold (ETHR Read/Write) and frequency tolerance | 13 |
| 9.3 | Sensitivity Directivity (SDirectivity) | 15 |
| 9.4 | Interference rejection (IRejection) | 17 |
| 9.5 | Maximum operating electromagnetic field (EMax Operating) | 18 |
| 9.6 | Survival electromagnetic field (ESurvival) | 20 |
| Bibliography | | 22 |