

1 GENERAL

1.1 Equipment under test description

RFID Reader

Type: Display Combo DDIS

Power supply: 12 VDC

Protective class: II.

Frequency range: 13,56 MHz – 13,56 MHz (1 channel)

Auxilliary Equipment used during testing:

- AC/DC adapter for powering Network Controller: PHIHONG, Type: PSAA30R-120
- Locker Controller ELS with code name LC32ELIS

NOTE:

Product group Display consists of three different types:

Types: **Display Combo**

- **DDIS** (ISO 15693, ISO14443A/B)
- **DDLf** (LF Multitag)
- **DDMF** (Mifare)
- **DDSD** (Skidata)

Display RFID

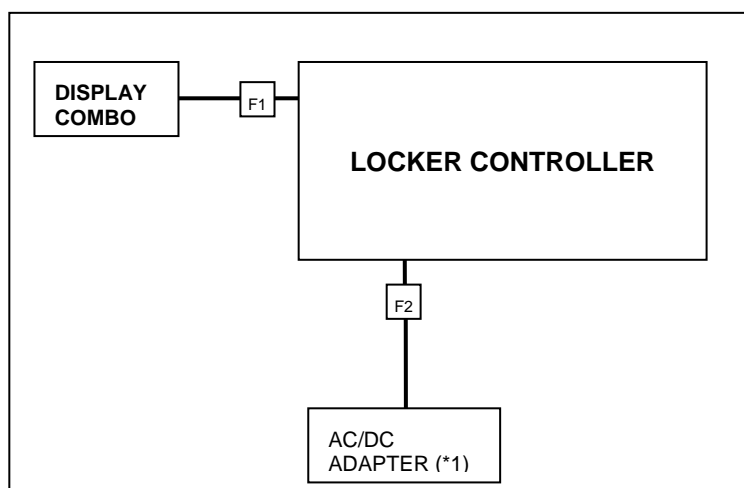
- **DSIS** (ISO 15693, ISO14443A/B)
- **DSLf** (LF Multitag)
- **DSMF** (Mifare)
- **DSSD** (Skidata)

Display Keypad

- **DSKP**

NOTE: Tested was Display Combo DDIS which is most complex type. All other types are also covered by this test report.

See Appendix A for Product description.



Schematic for testing

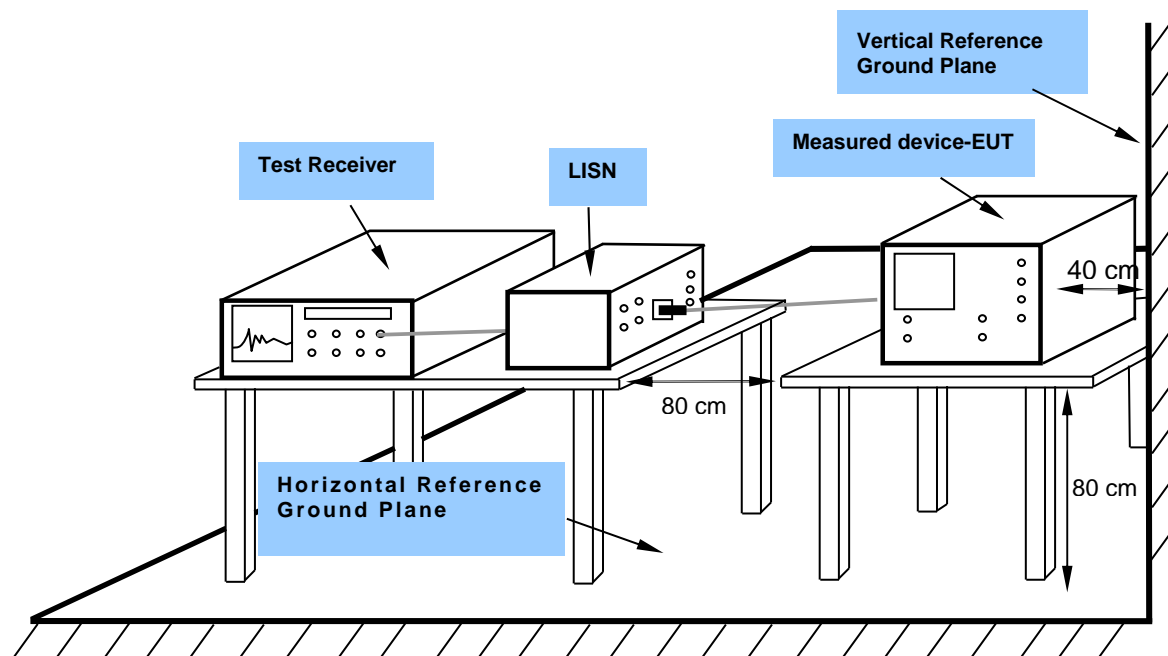
F1 – Ferrite WE 742 724 6, 2 turns

F2 – Ferrite WE 742 711 12, 2 turns

AC/DC ADAPTER (*1) – PHIHONG, Model: PSAA30R-120

2 EMISSION TESTS

2.1 Test setup



2.2 Photos of the actual measurement place



Figure 1: Conducted emission test



Figure 2: Radiated emission test – 9kHz to 30MHz



Figure 3: Radiated emission test – 30MHz to 1GHz



Figure 4: Radiated emission test – 9kHz to 30MHz (retested on a 10 m distance)