



# Test Report

for metraTec DeskID NFC Internal NFC PCB Loop Antenna

Date: October 2025

Version: 1.0

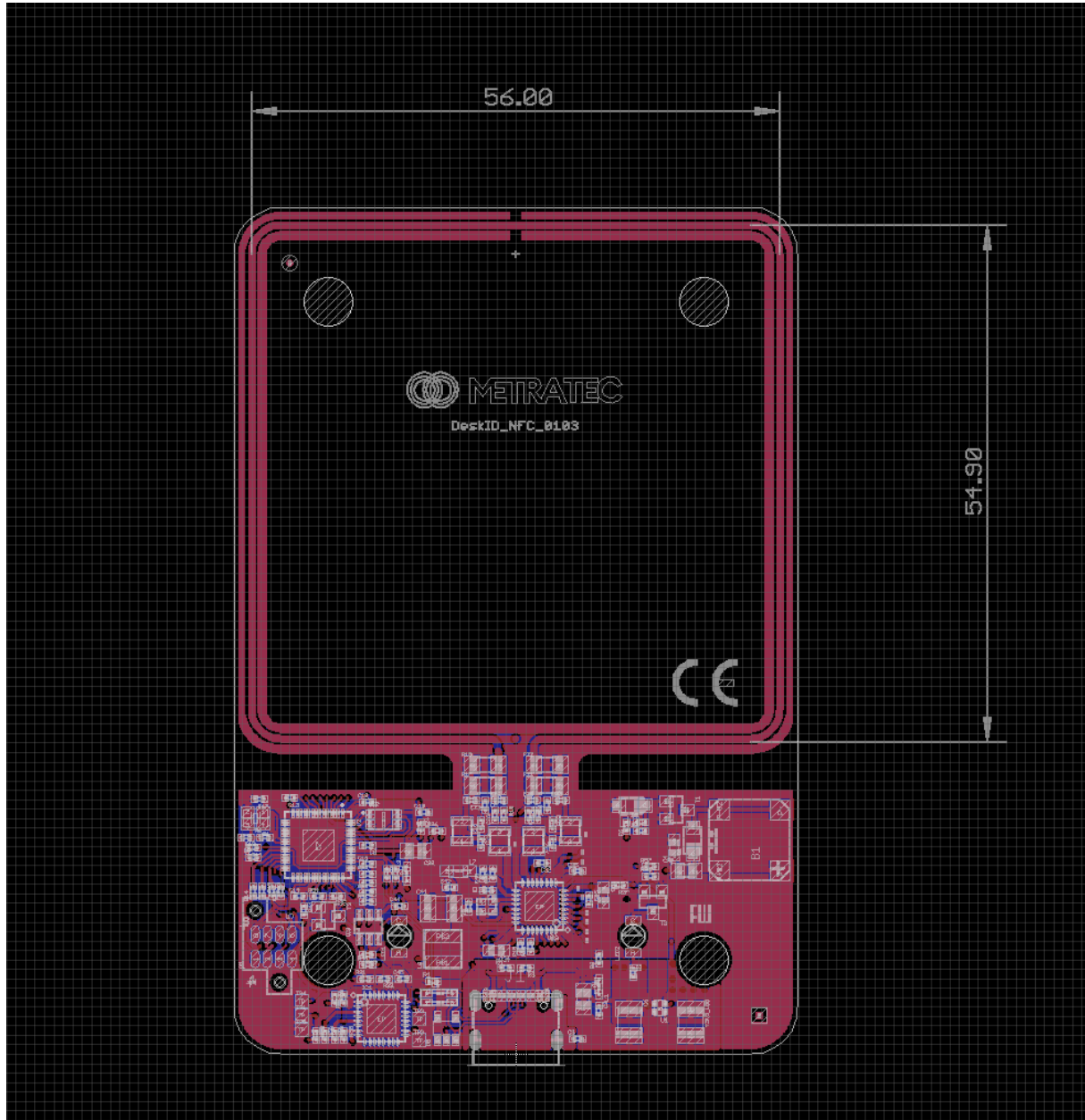
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We, Metratec GmbH, states that All measurements were performed radiated and therefore additional antenna gain documentation is not required.

## 1 Mechanical Dimensions

The internal antenna is 55x56 mm.



*Fig. 1: Antenna Dimensions*

## 2 Peak Gain

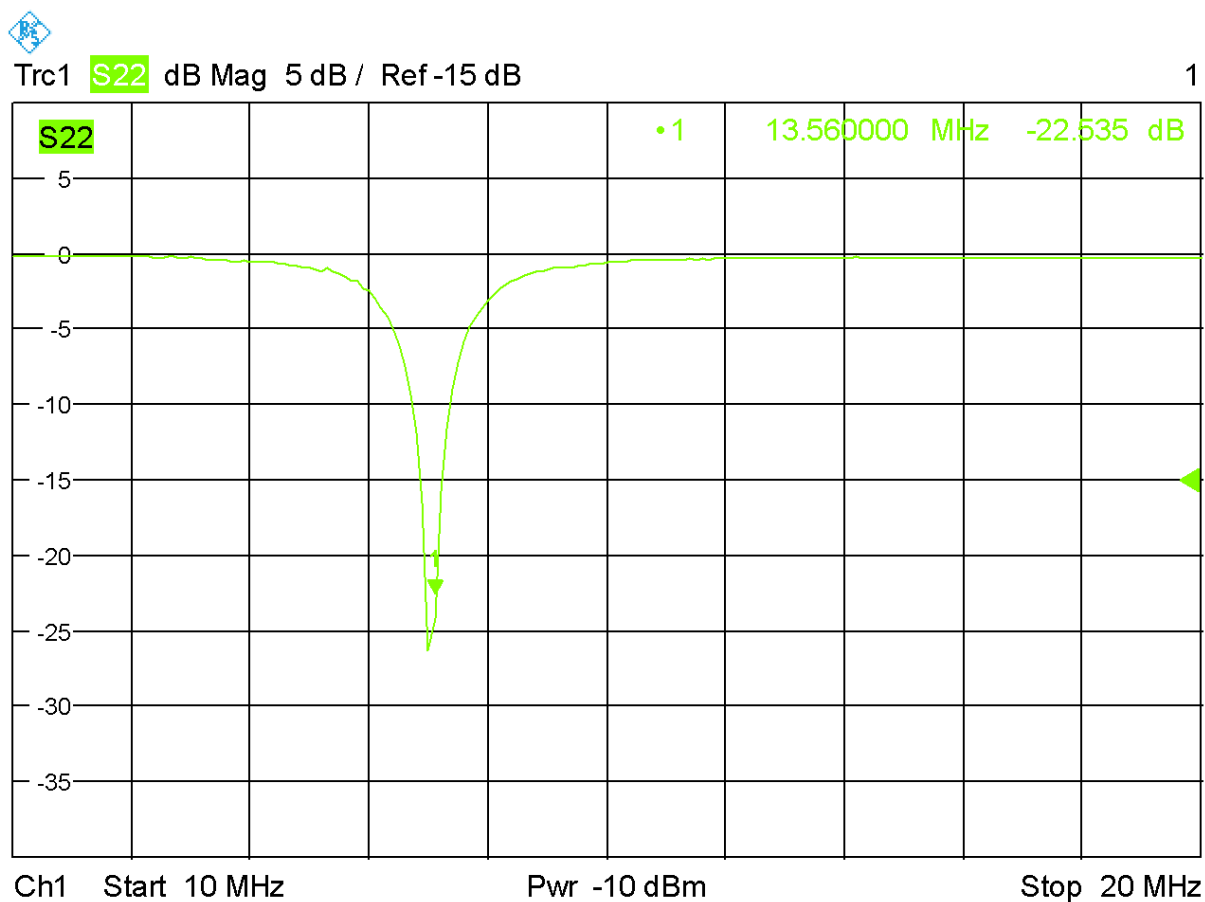
The antenna peak gain was measured using a nose to nose test with two DeskID\_NFC at 0.3m distance. The short distance is necessary as the antenna is a near field antenna with very low farfield gain.

The measured farfield gain is:

G= -15 dBi

### 3 Antenna Resonance Frequency and Return Loss

The antenna resonance is close to the RF carrier frequency of 13.56 MHz. The matching is at a very good value of -22dB.



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Fig. 2: Return Loss of the internal antenna

## 4 Version Control

| <i><b>Version</b></i> | <i><b>Change</b></i> | <i><b>by</b></i> | <i><b>Date</b></i> |
|-----------------------|----------------------|------------------|--------------------|
| 1.0                   | created              | TM               | 28.10.2025         |
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