

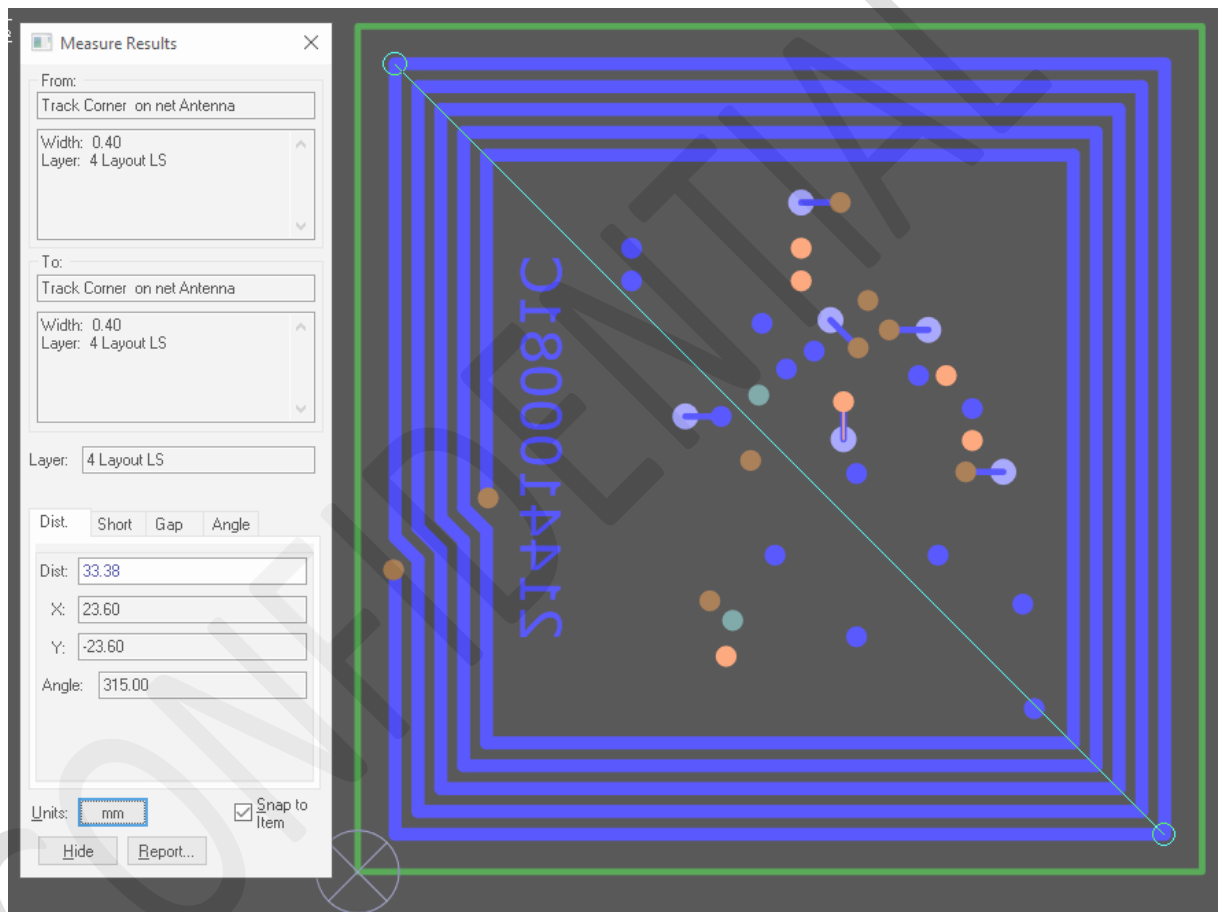
**Subject:** Antenna spec

**Devices:** RFID Module 2144100082

**Date:** 09.02.2023

Antenna specification:

- Type: Loop antenna in PCB
- Turns: 5
- Size:



**Figure 1:** Loop antenna in PCB

The tested radio equipment was qualified acc. the following conditions:

<b>Test item description</b>		
<b>Frequency Separation</b>		NA
<b>Number of Channels</b>		1
<b>Test Frequencies:</b>		
	<b>Transmitter</b>	13.56 MHz
	<b>Receiver</b>	13.56 MHz
<b>Transmitter:</b>	<b>Rated Output Power (Prat)</b>	400 mW
	<b>Duty Cycle</b>	100 %
<b>Modulation:</b>	<b>Type</b>	Modulation ASK
	<b>Operation w/o modulation</b>	no
<b>Antenna:</b>	<b>Type</b>	PCB coil (integral)
	<b>Number of Antenna (Ports)</b>	1
	<b>Gain</b>	Unknown
	<b>Loop size</b>	5 Loops 23,6 x 23,6mm
	<b>Product Class</b>	1
<b>Power Src.:</b>	<b>Battery type (if applicable)</b>	N/A
	<b>Nominal Voltage</b>	3.3 V DC

**Table 1: Overview of EUT radio parameters**

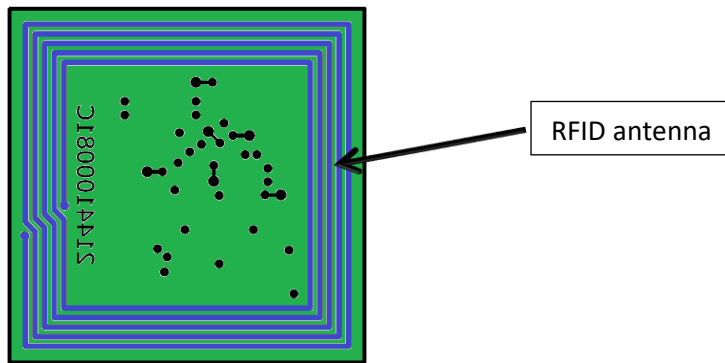
**Note:** Antenna Gain information is not required. Only radiated measurements are used to show compliance with FCC limits for fundamental and spurious emissions.

**Subject:** Antenna location

**Devices:** RFID Module 2144100082

**Date:** 06.12.2022

The RFID antenna is located in the bottom layer of the PCB. It is shown as a blue line in Figure 1:



**Figure 1:** RFID antenna in bottom layer of PCB