



611 Center Ridge Drive
Austin, Texas 78753 USA

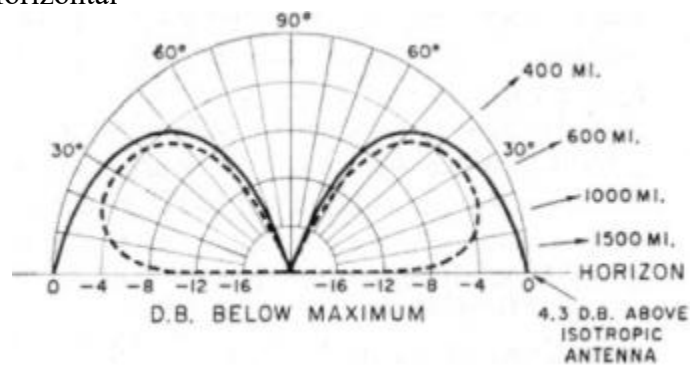
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**HID Global Corporation
Color Card Printer
DTC1500
Antenna Specifications**

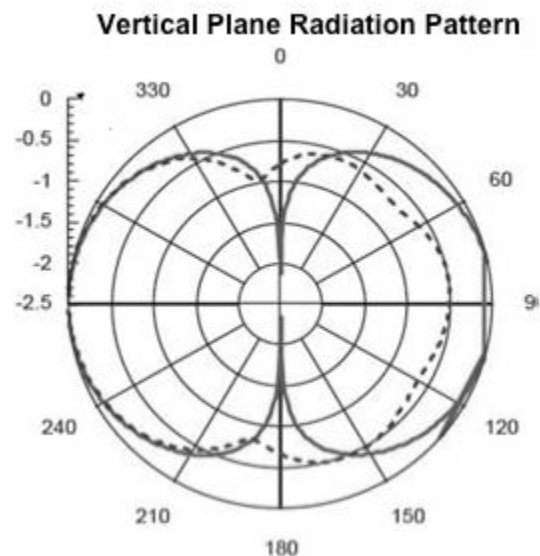
Gain Declaration for LF and HF Inductive Loop Antennas

Frequency	125kHz, 13.56MHz
Gain	1.0 dBi

Radiation Patterns: Horizontal



Radiation Patterns: Vertical





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Antenna Specifications

OMNIKEY 5122

Frequency: 13.56MHz

Type: coil/loop/pcb trace antenna (square)

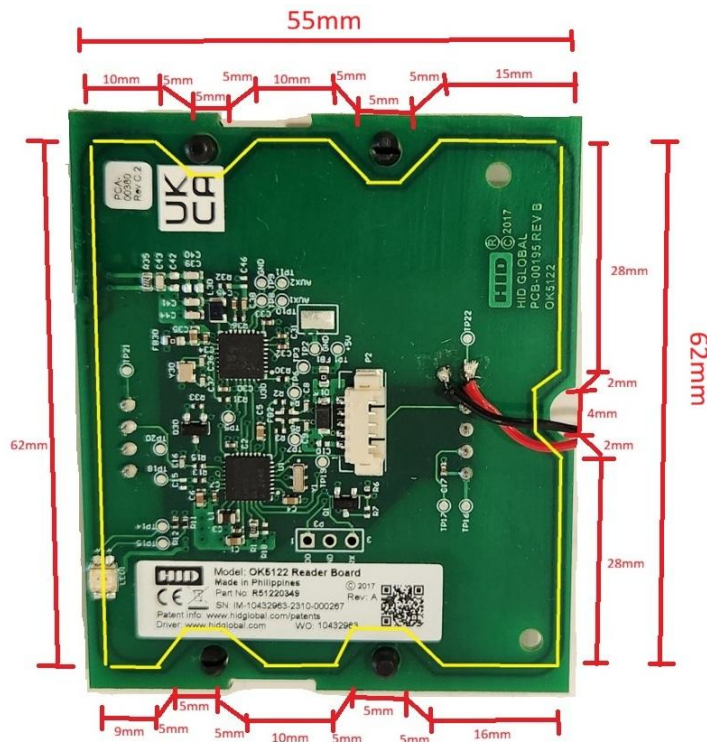
Number of turns: 2

RMS Current: 94.3 mA

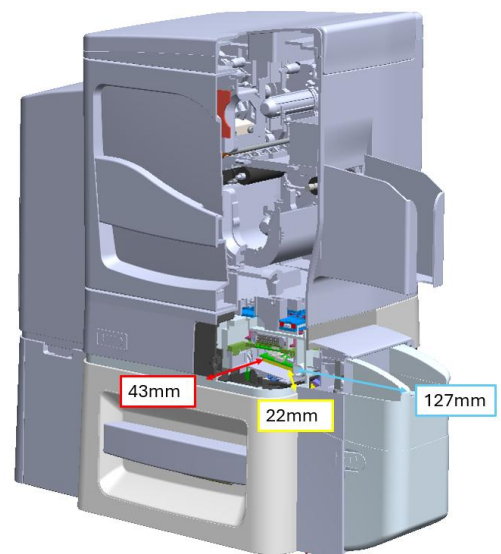
Gain: 1dBi

Overall Dimensions: 55mm x 62mm

Closest distance from this antenna to outer surface of enclosure: 22mm



OMNIKEY 5122 HF Antenna dimensions



Antenna location within DTC1500 and
closest distance to outer surface of enclosure



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OMNIKEY 5127SI

Frequency: 125kHz

Type: coil/loop (square)

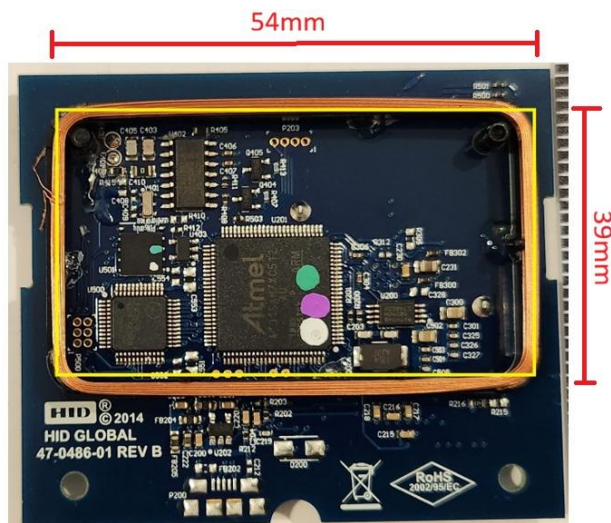
Number of turns: 88

RMS Current: 38.9mA

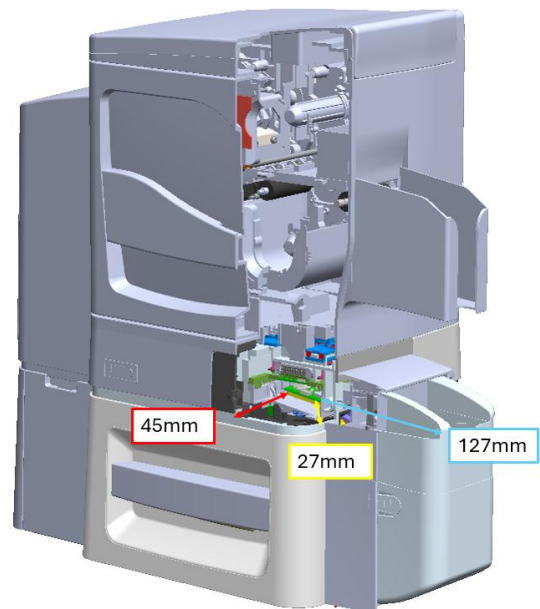
Gain : 1dBi

Dimensions : 54mm x 39mm

Closest distance from this antenna to outer surface of enclosure: 27mm



OMNIKEY 5127SI LF Antenna dimensions



Antenna location within DTC1500 and
closest distance to outer surface of enclosure



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OMNIKEY 5127SI

Frequency: 13.56MHz

Type: coil/loop/pcb trace (square)

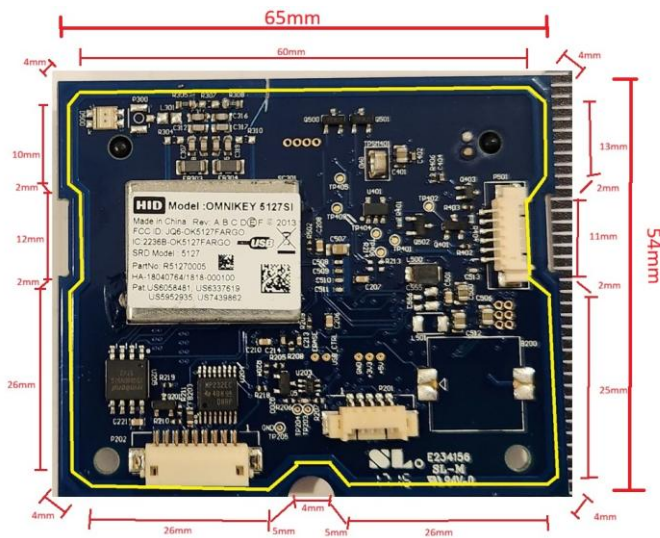
Number of turns: 2

RMS Current: 332mA

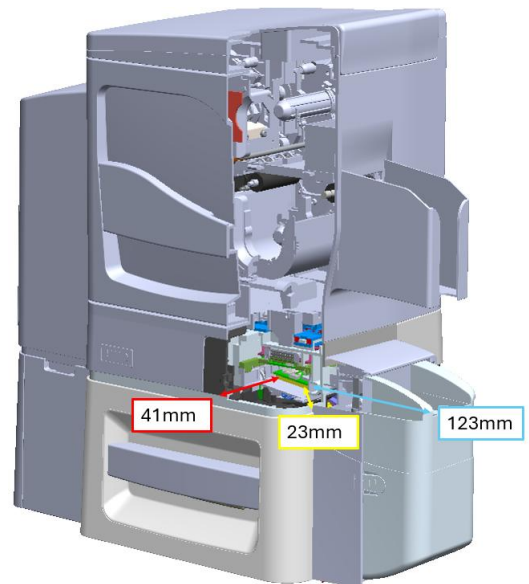
Gain: 1dBi

Overall Dimensions: 54mm x 65mm

Closest distance from this antenna to outer surface of enclosure: 23mm



OMNIKEY 5127SI HF Antenna dimensions



Antenna Location within DTC1500 and
closest distance to outer surface of enclosure



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OMNIKEY 5127CK MINI

Frequency: 13.56MHz

Type: coil/loop/pcb trace (square)

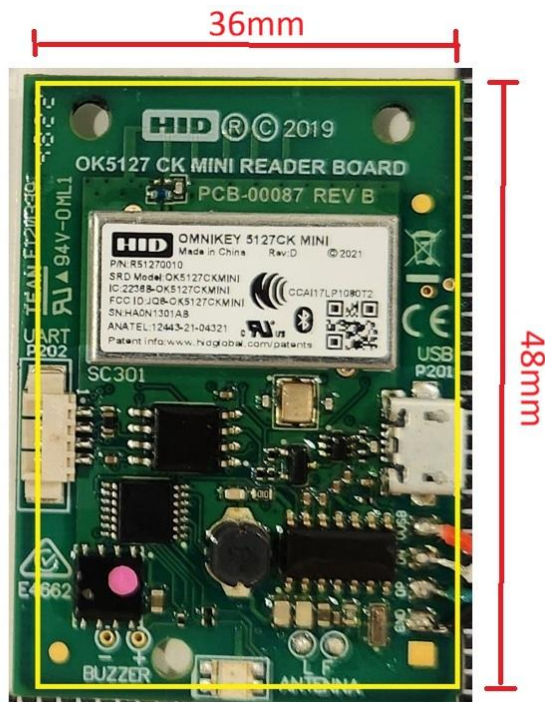
Number of turns: 2

RMS Current: 197 mA

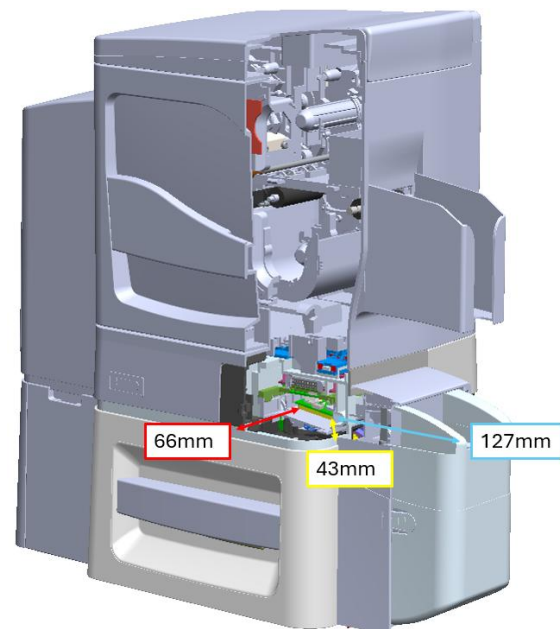
Gain: 1dBi

Dimensions: 48mm x 36mm

Closest distance from this antenna to outer surface of enclosure: 43mm



OMNIKEY 5127CK MINI HF Antenna dimensions



Antenna location within DTC1500 and
closest distance to outer surface of
enclosure



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OMNIKEY 5127CK MINI

Frequency: 125kHz

Type: coil/loop (Square)

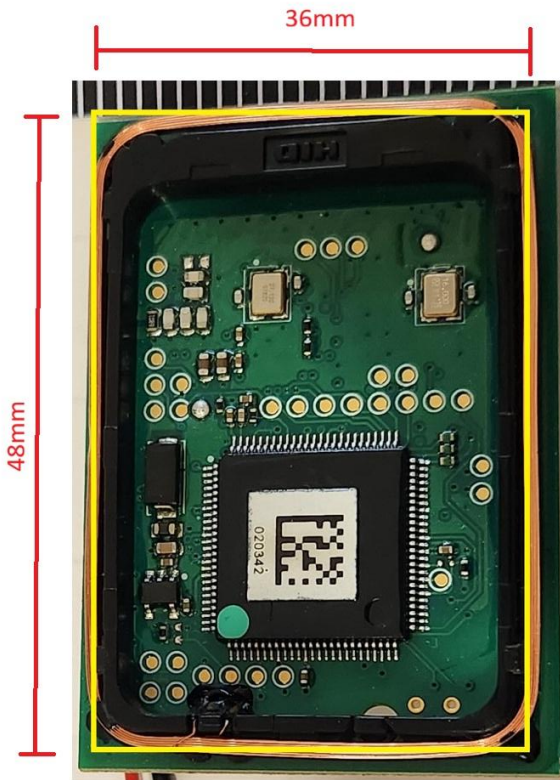
Number of turns: 88

RMS Current: 74.2 mA

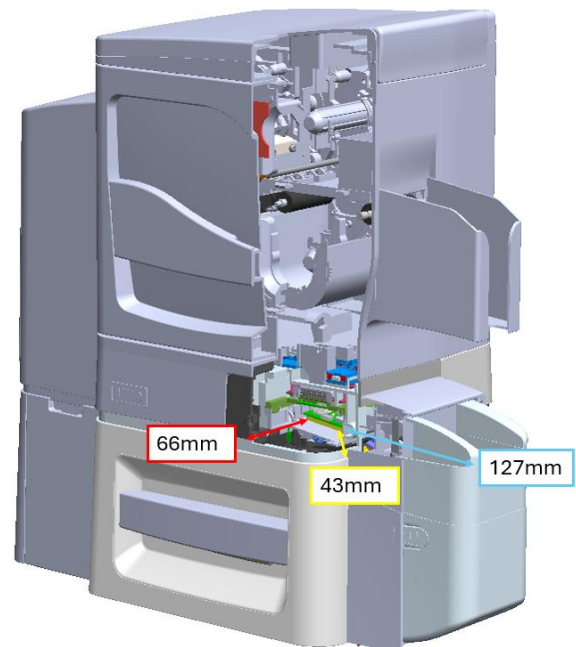
Gain : 1dBi

Dimensions : 48mm x 36mm

Closest distance from this antenna to outer surface of enclosure: 43mm



OMNIKEY 5127CK MINI LF Antenna dimensions



Antenna location within DTC1500 and closest distance to outer surface of enclosure



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Ribbon RFID

Frequency: 13.56MHz

Type: Loop/trace (circle)

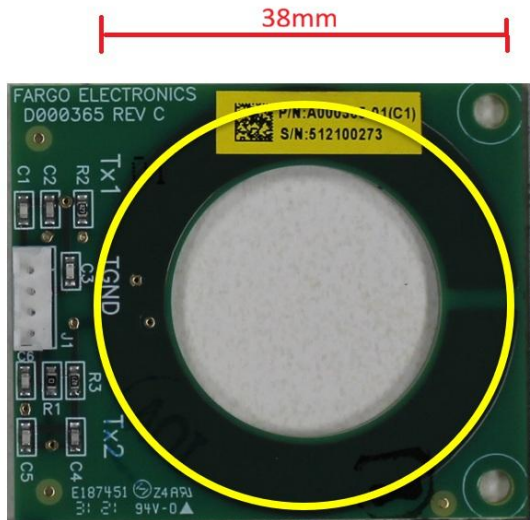
Number of turns: 4

RMS Current: 34.7mA

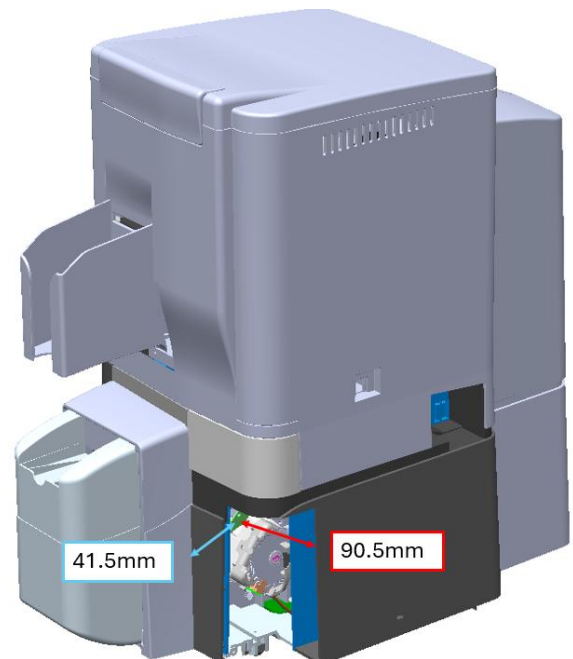
Gain: 1dBi

Dimensions: 38mm (diameter)

Closest distance from this antenna to outer surface of enclosure: 90.5mm.



Ribbon RFID HF Antenna Dimensions



Antenna location within DTC1500
and closest distance to outer surface
of enclosure

Laminator RFID

Frequency: 13.56MHz

Type: Loop/trace (circle)

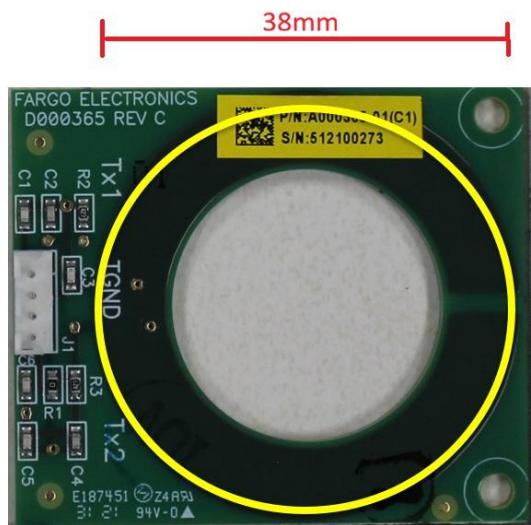
Number of turns: 4

RMS Current: 26.5mA

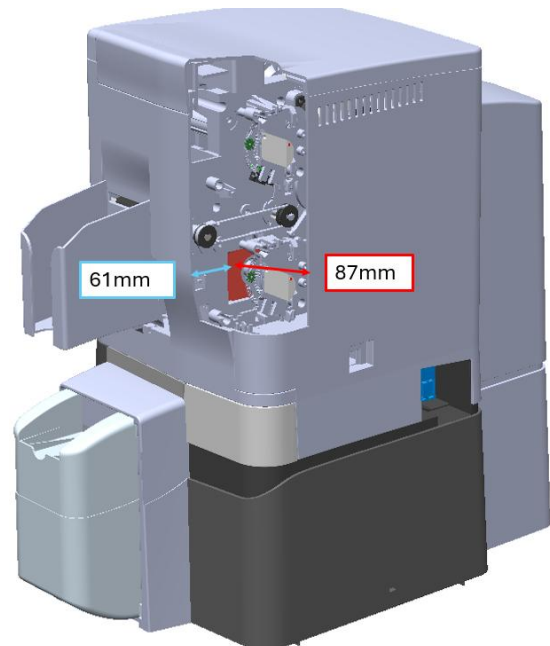
Gain: 1dBi

Dimensions: 38mm (diameter)

Closest distance from this antenna to outer surface of enclosure: 61mm.



Laminator RFID HF Antenna Dimensions



Antenna location within DTC1500
and closest distance to outer surface
of enclosure

Contact Name: Steven Peterson

Signature:

Steve Peterson

Manager Product Regulatory and Compliance, Global Product Compliance

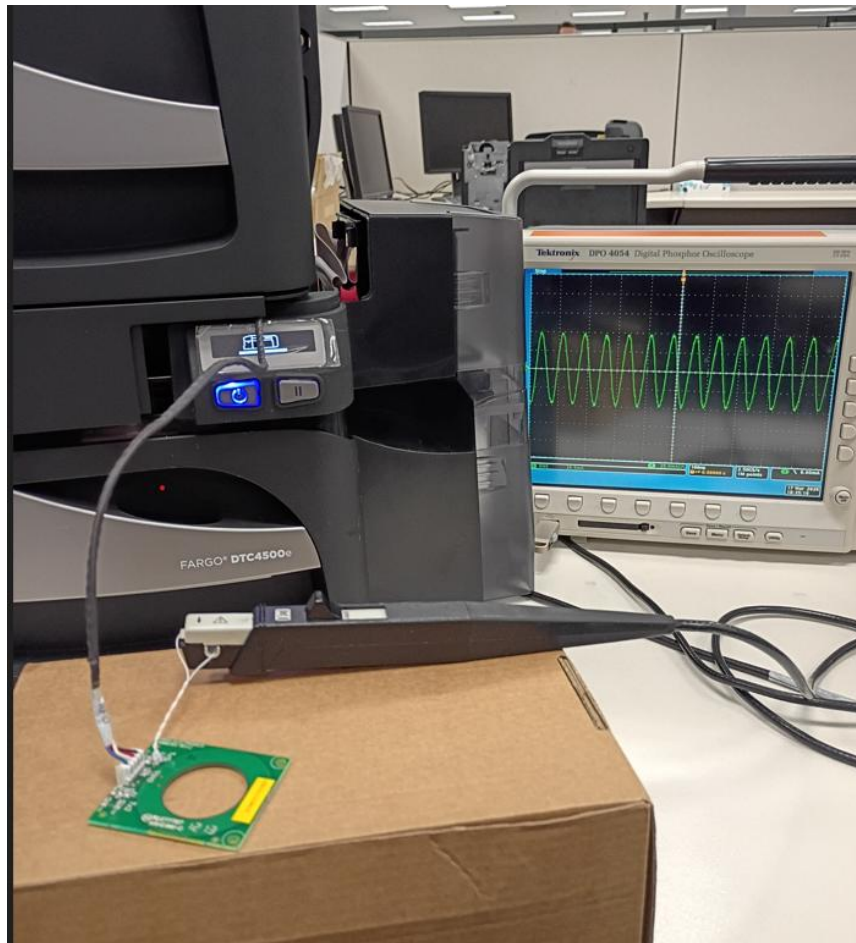
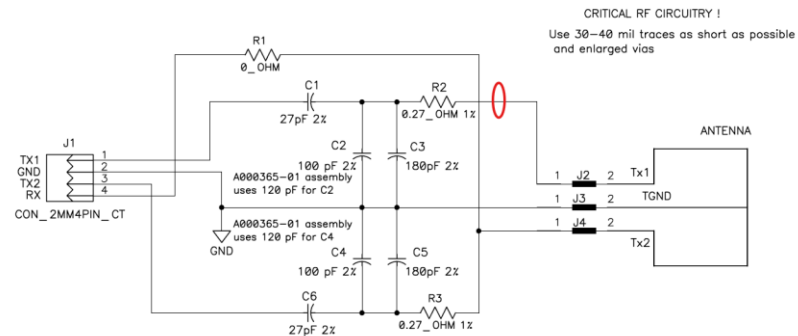
Tel 952-258-3411

steven.peterson@hidglobal.com

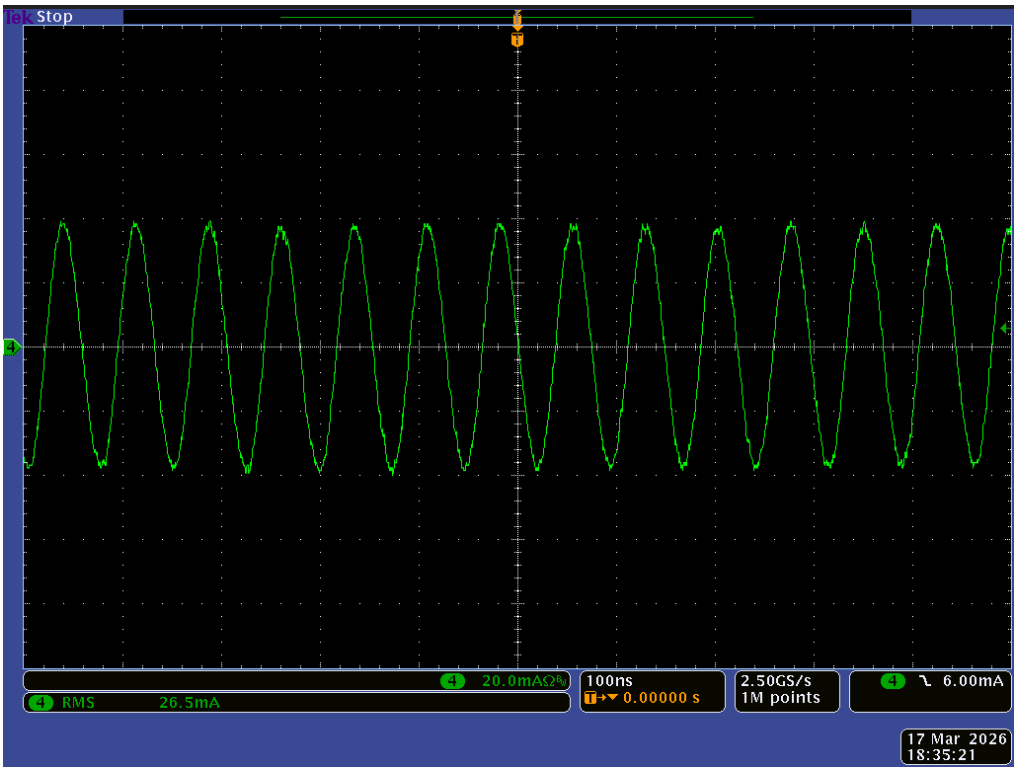
Laminator RFID (Lower) antenna current measurement

Configuration:

- RFID 13.56MHz Radio Module
- Short-range RFID transmitter using a small loop antenna (magnetic field) used to detect the type of material installed in a lower laminator bay.
- Antenna current is measured where it passes through the red oval on the schematic shown below using a Tektronix TCP202 current probe.



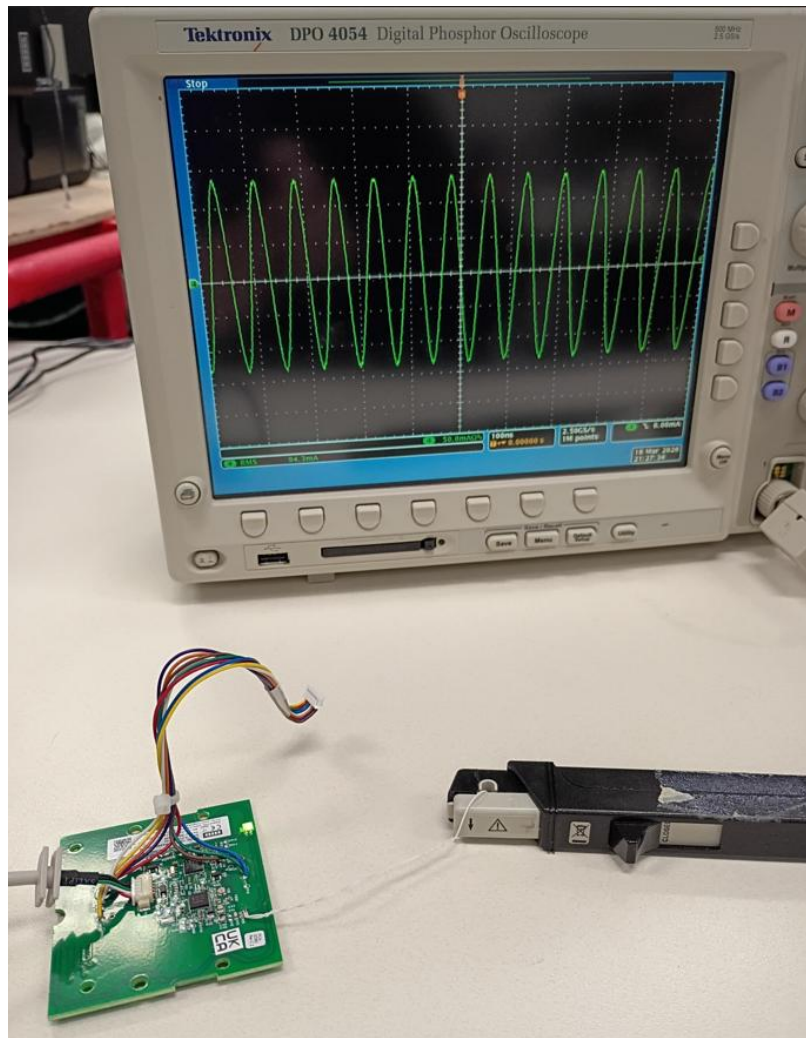
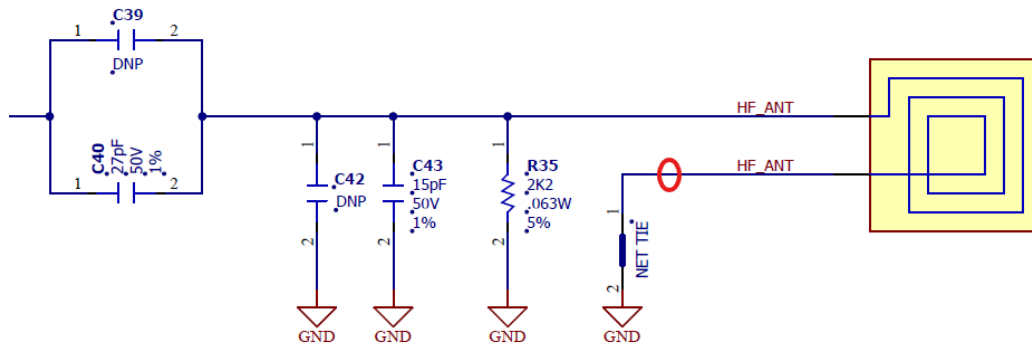
Measurement shows 26.5mA RMS at 13.56Mhz



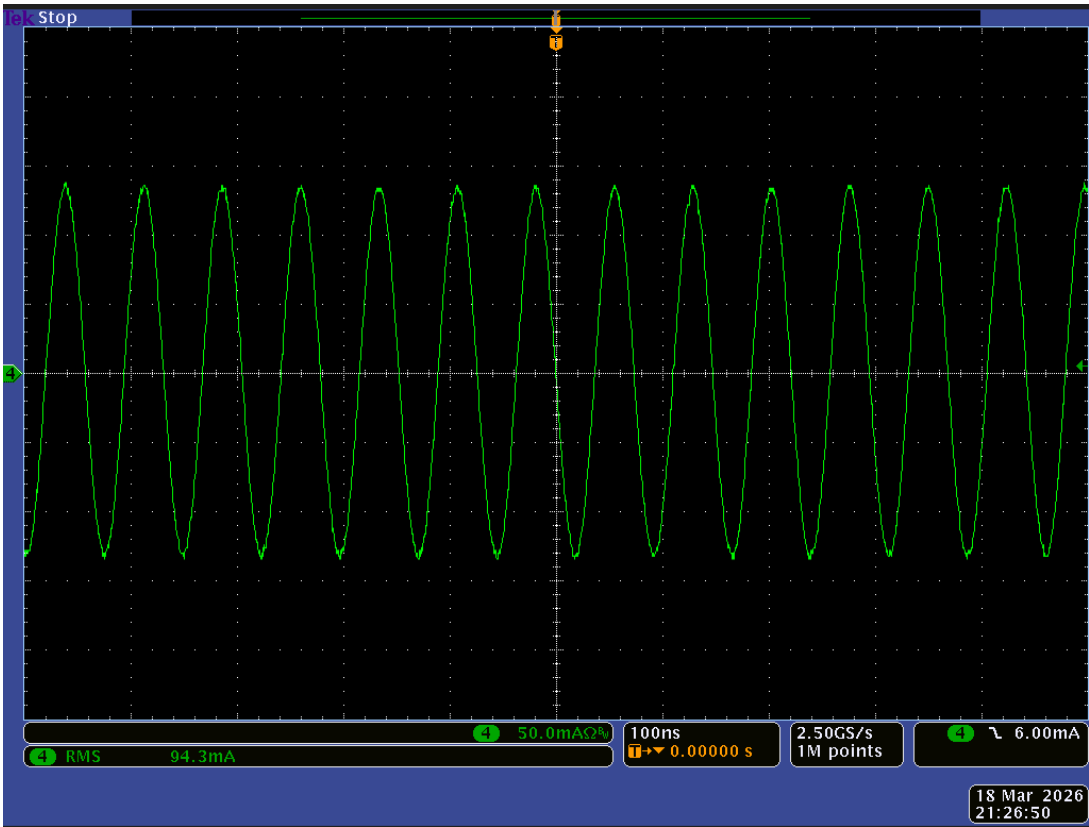
OMNIKEY 5122 Encoder (13.56MHz) RFID antenna current measurement

Configuration:

- RFID 13.56MHz Radio Module
- This is a short-range RFID transmitter using a small loop antenna (magnetic field) used to read and encode Identification Cards.
- Antenna current is measured where it passes through the red oval on the schematic shown below using a Tektronix TCP202 current probe.



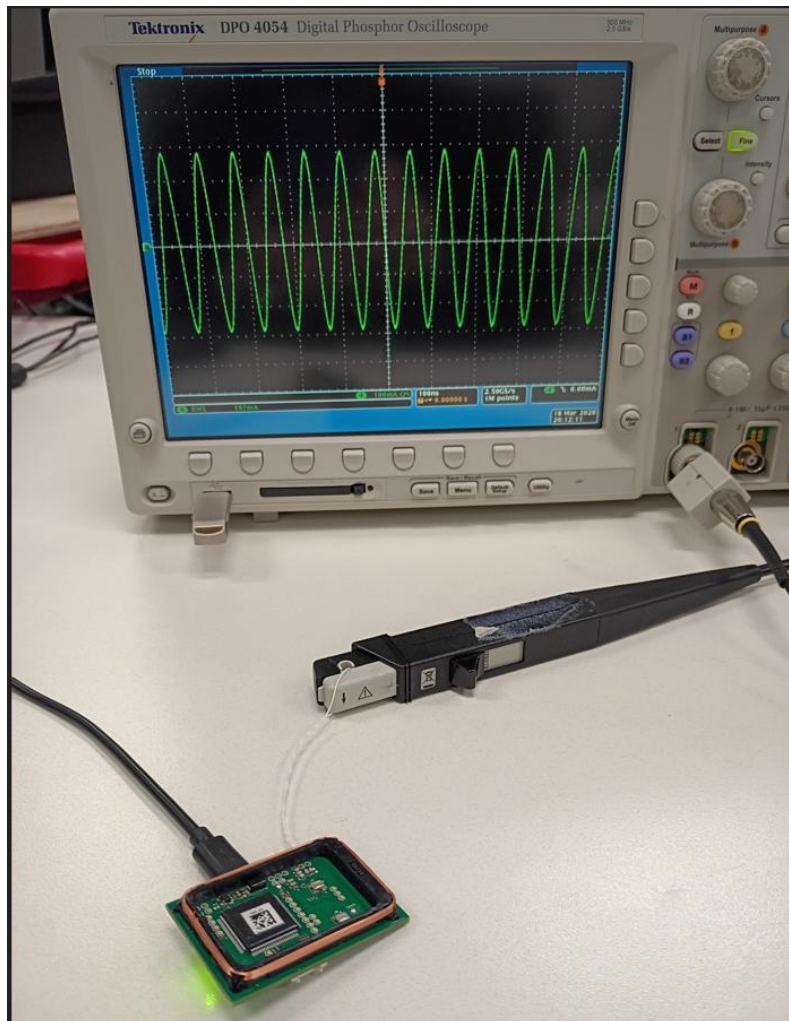
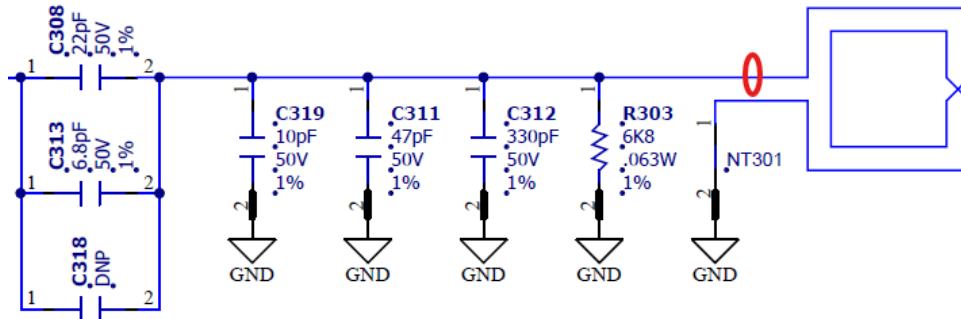
Measurement shows 94.3 mA RMS at 13.56MHz



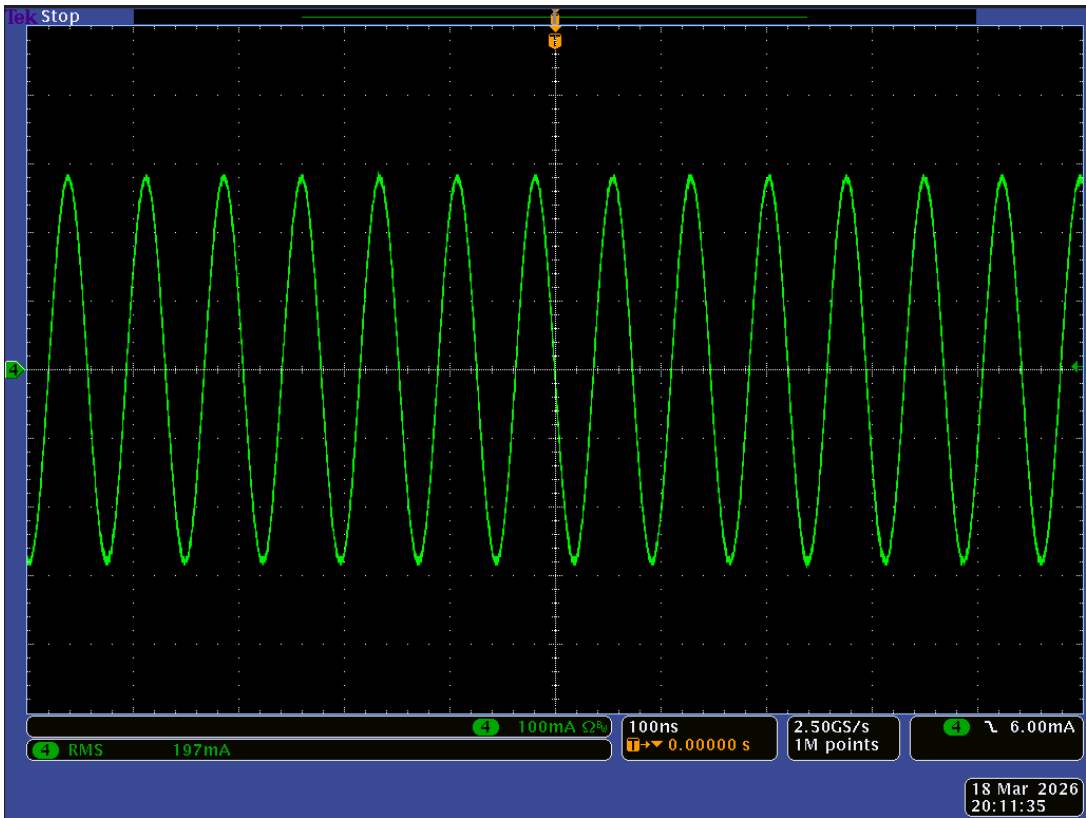
OMNIKEY 5127CK MINI Encoder (13.56MHz) RFID antenna current measurement

Configuration:

- HF RFID 13.56MHz Radio Module
- This is a short-range RFID transmitter using a small loop antenna (magnetic field) used to read and encode Identification Cards.
- Antenna current is measured where it passes through the red oval on the schematic shown below using a Tektronix TCP202 current probe.



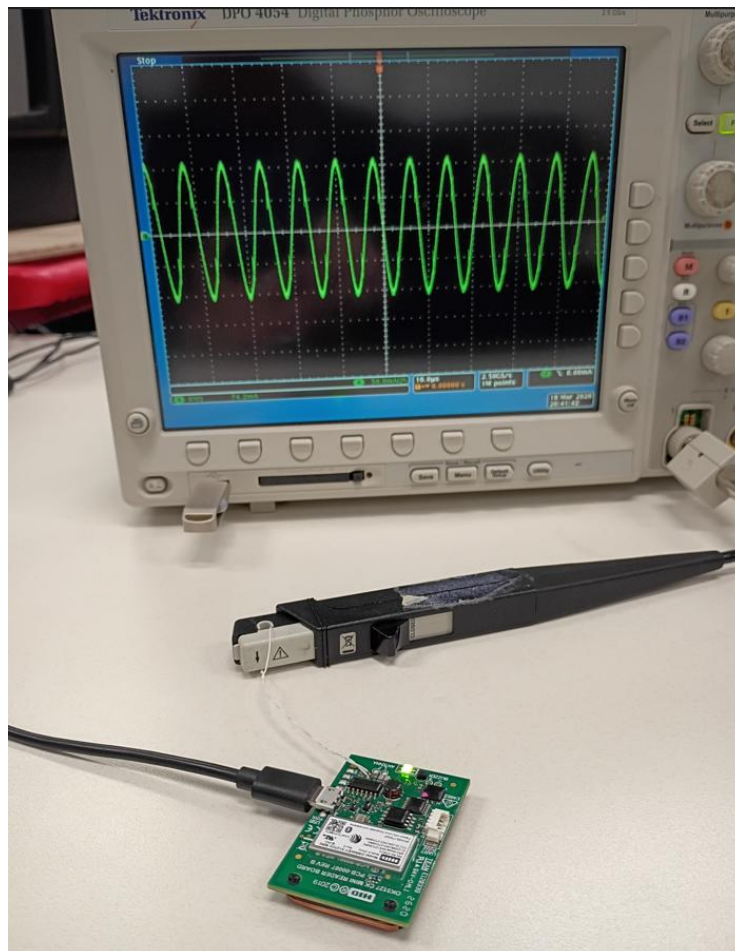
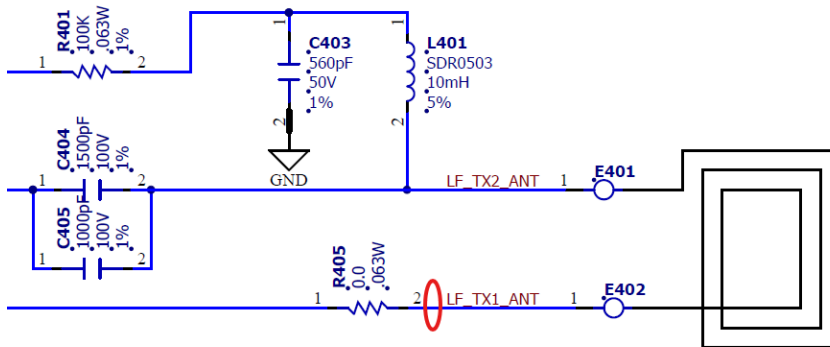
Measurement shows 197 mA RMS at 13.56MHz



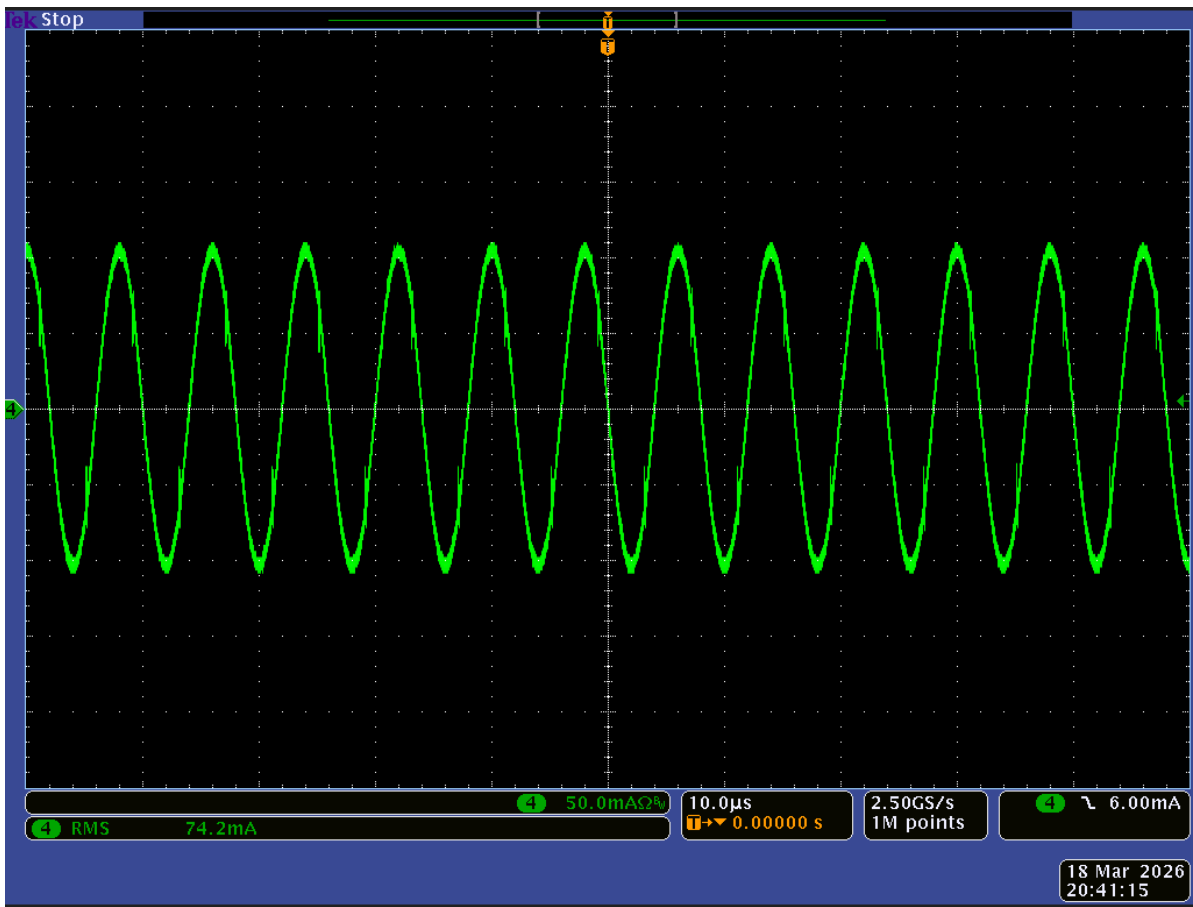
OMNIKEY 5127CK MINI Encoder (125kHz) RFID antenna current measurement

Configuration:

- LF RFID 125kHz Radio Module
- This is a short-range RFID transmitter using a small loop antenna (magnetic field) used to read and encode Identification Cards.
- Antenna current is measured where it passes through the red oval on the schematic shown below using a Tektronix TCP202 current probe.



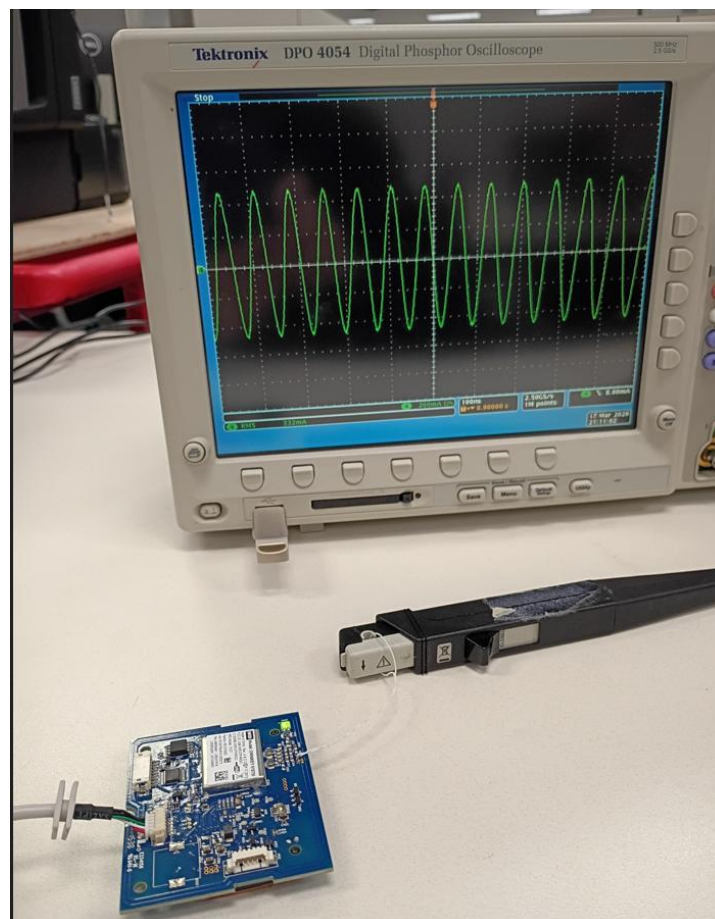
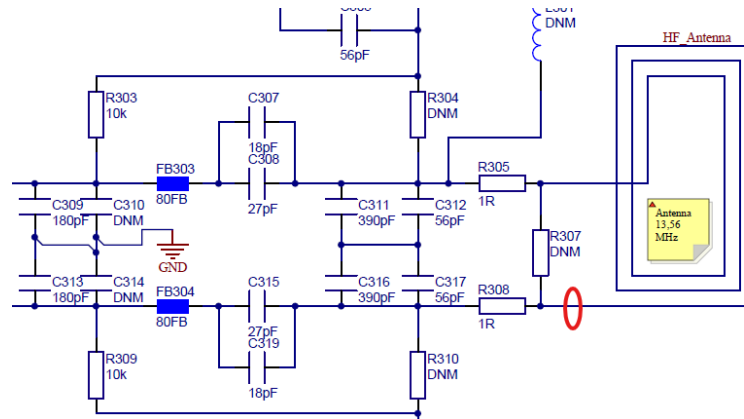
Measurement shows 74.2 mA RMS at 125kHz



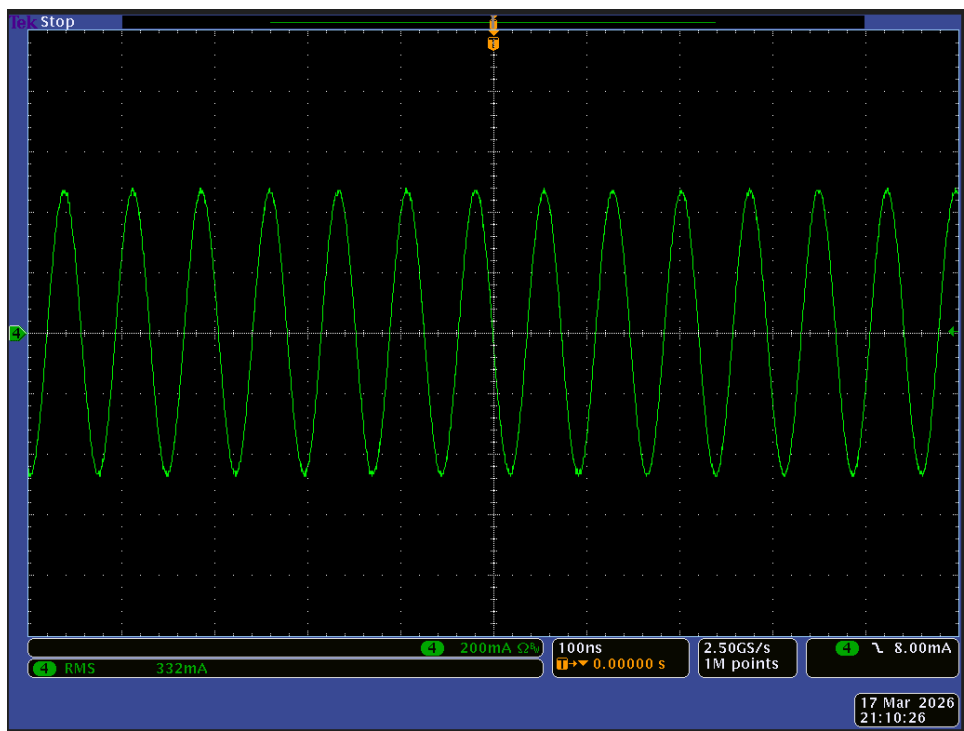
OMNIKEY 5127SI Encoder (13.56MHz) RFID antenna current measurement

Configuration:

- HF RFID 13.56MHz Radio Module
- This is a short-range RFID transmitter using a small loop antenna (magnetic field) used to read and encode Identification Cards.
- Antenna current is measured where it passes through the red oval on the schematic shown below using a Tektronix TCP202 current probe.



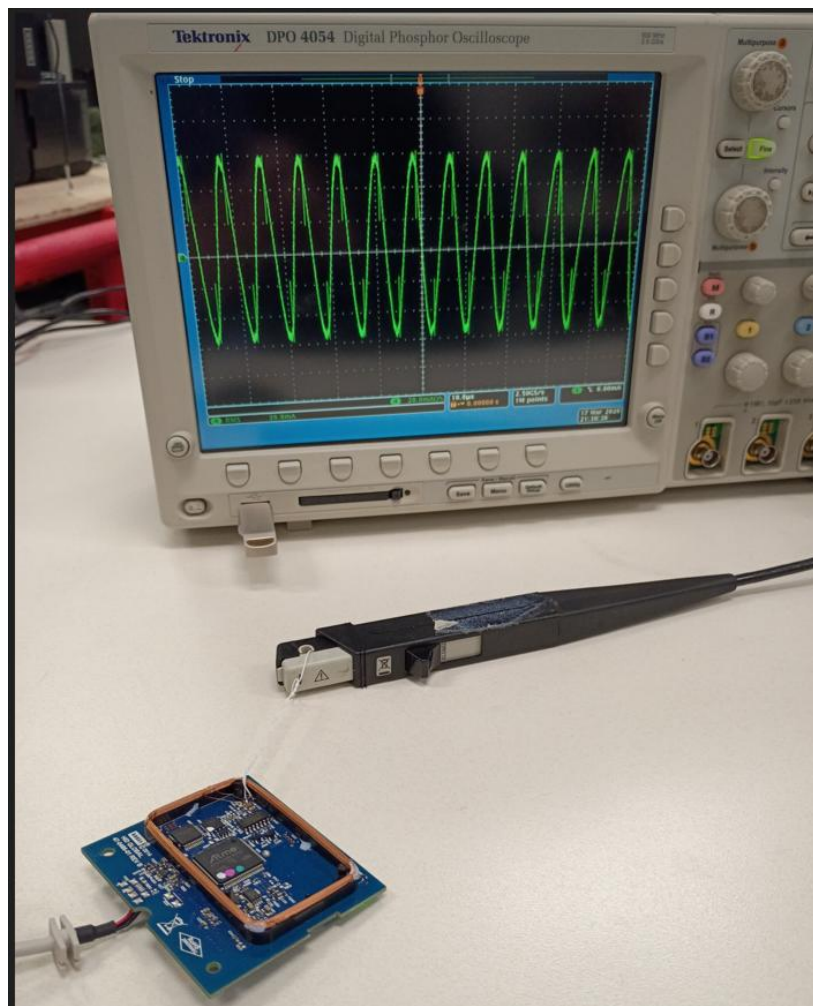
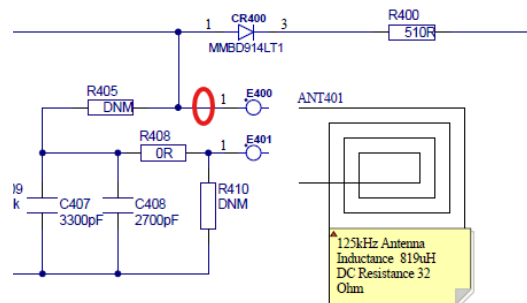
Measurement shows 332mA RMS at 13.56MHz



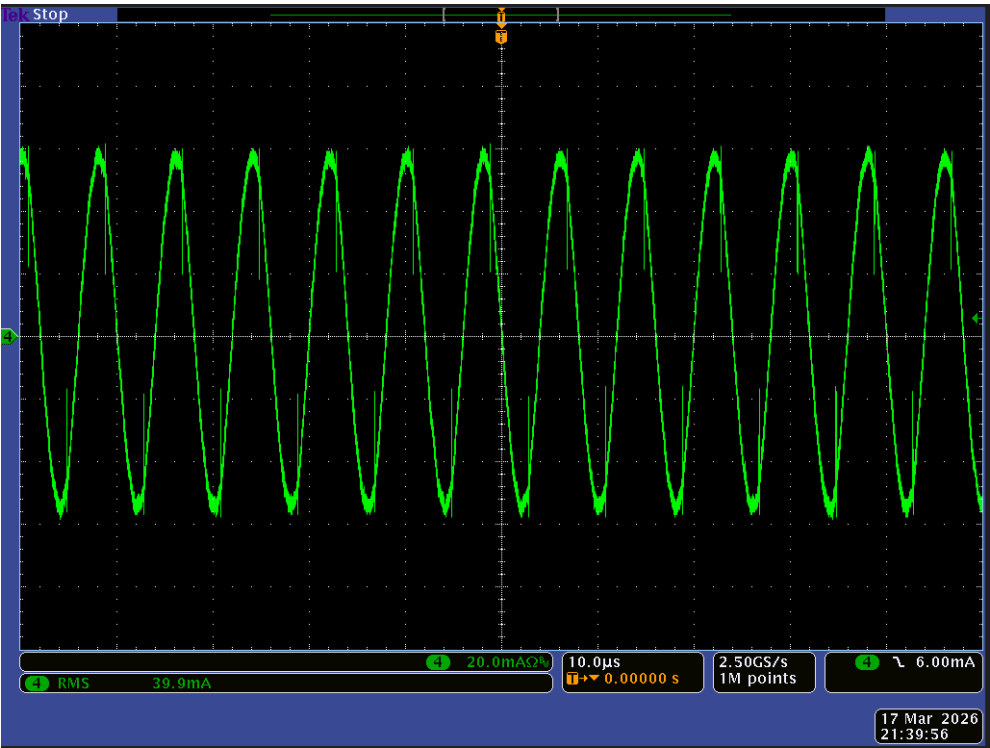
OMNIKEY 5127SI Encoder (125kHz) RFID antenna current measurement

Configuration:

- LF RFID 125kHz Radio Module
- This is a short-range RFID transmitter using a small loop antenna (magnetic field) used to read and encode Identification Cards.
- Antenna current is measured where it passes through the red oval on the schematic shown below using a Tektronix TCP202 current probe.



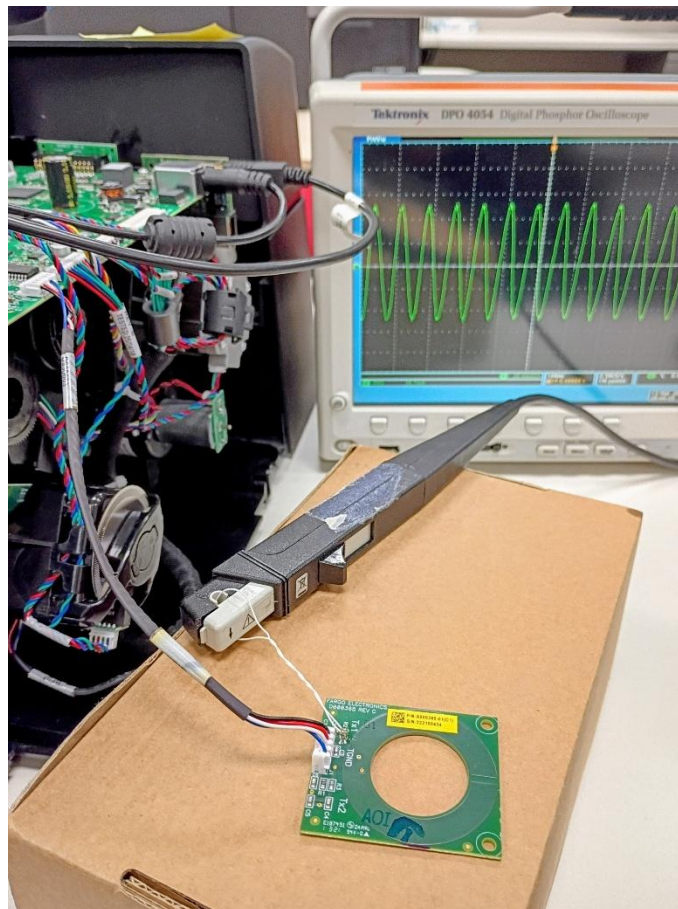
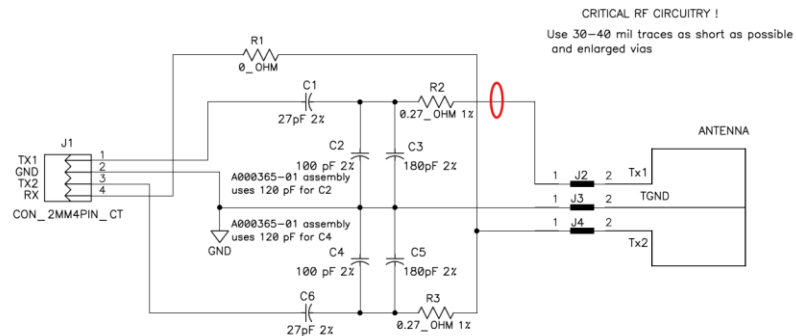
Measurement shows 38.9mA RMS at 125kHz



Printer Ribbon RFID antenna current measurement

Configuration:

- RFID 13.56MHz Radio Module
- This is a short-range RFID transmitter using a small loop antenna (magnetic field) used to detect the type of material installed in a printer
- Antenna current is measured where it passes through the red oval on the schematic shown below using a Tektronix TCP202 current probe.



Measurement shows 34.7mA RMS at 13.56Mhz

