EOLOGIX-PING

FH JOANNEUM
University of Applied Sciences

Antenna Measurement
Sensor CET215 913MHz

Applicant:	eologix sensor technology Waagner-Biro-Strasse 12 8020 Graz Autria
Product:	Wireless Sensor
Model:	CET215
Serial Number	#032437 + #032449
Date:	18.05.2026
Test engineer:	R. Findenig
Document:	**20260518_Antenna-Mesurement_Report_Eologix_V2**

Table of content

1. General

Company:	eologix sensor technology
Department:	R&D
Address:	Waagner-Biro-Straße 12
	8020 Graz
Contact person:	Dr. Michael Moser
Email:	michael.moser@eologix-ping.com
EUT received on:	29.04.2026
Test performed on:	15.05.2026
Test location:	FH-JOANNEUM
	EMV Laboratory Room TP20
	Werk VI Straße 46
	A-8605 Kapfenberg
Performed by:	Roland Findenig
EUT:	CET215
Model code:	
Serial Number	#032437 + #032449
Manufacturer:	eologix sensor technology
Description:	The radiation was tested at 913MHz

2. Test equipment list

Device	Manufacturer	Type	Indented purpose
Full anechoic chamber	Albatros	--	Gain measurement
RX antenna	Rohde&Schwarz	HL562E	Gain measurement
Camera system	MK Messtechnik	dAV-Cr-HD	Visual control
Turn table control unit	INNCO	CO2000	Rotation of EUT
Receiver	Rohde&Schwarz	FSIQ 26	Receiver unit for gain measurements
Signal generator	Rohde&Schwarz	SMIQ 3.3	RF source
Antenna control unit	INNCO	CO2000	Polarization of antenna
Network Analyzer	Rohde & Schwarz	ZNB 8	Impedance measurement

3. Test parameter

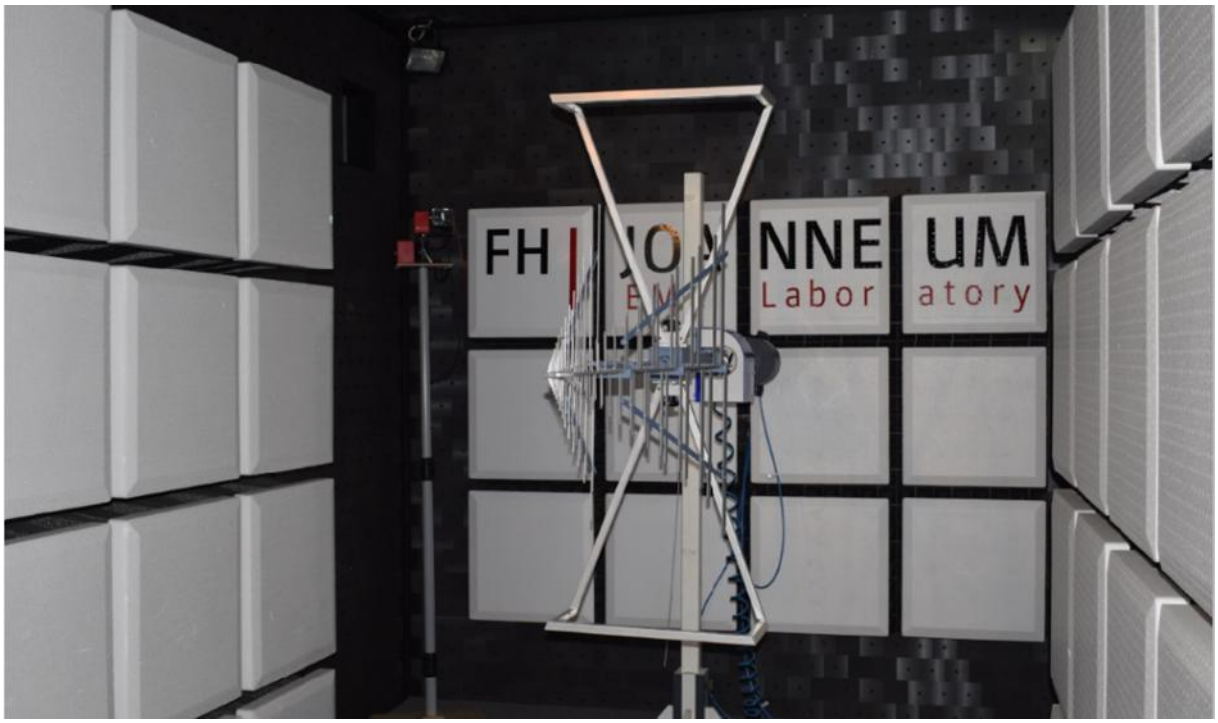
Frequency: *913 MHz*
Polarization receiving antenna: *horizontal and vertical*
EUT antenna position: *vertical (z axis – xy plane)*
Measurement angle: *0-360° in 5° steps*
Antenna heigth: *155cm*
Receiver Bandwidth: *100kHz*
Receiver Span: *5MHz*

Loop attenuation

Frequency	***868MHz***	***913MHz***	***2.45GHz***
Gain receiving antenna	*8,34 dBi*	*8,13 dBi*	*9,34 dBi*
Path losses distance 3m	*40,76 dB*	*41,23 dB*	*49,78 dB*
∑ Cable losses	*5,67 dB*	*5,85 dB*	*9,84 dB*
Applied power (Generator)	*0 dBm*	*0 dBm*	*0 dBm*
Feeding power (DUT)		*-2.99 DBm*	

Test setup

Measurement setup principal picture of DUT, Position 0°

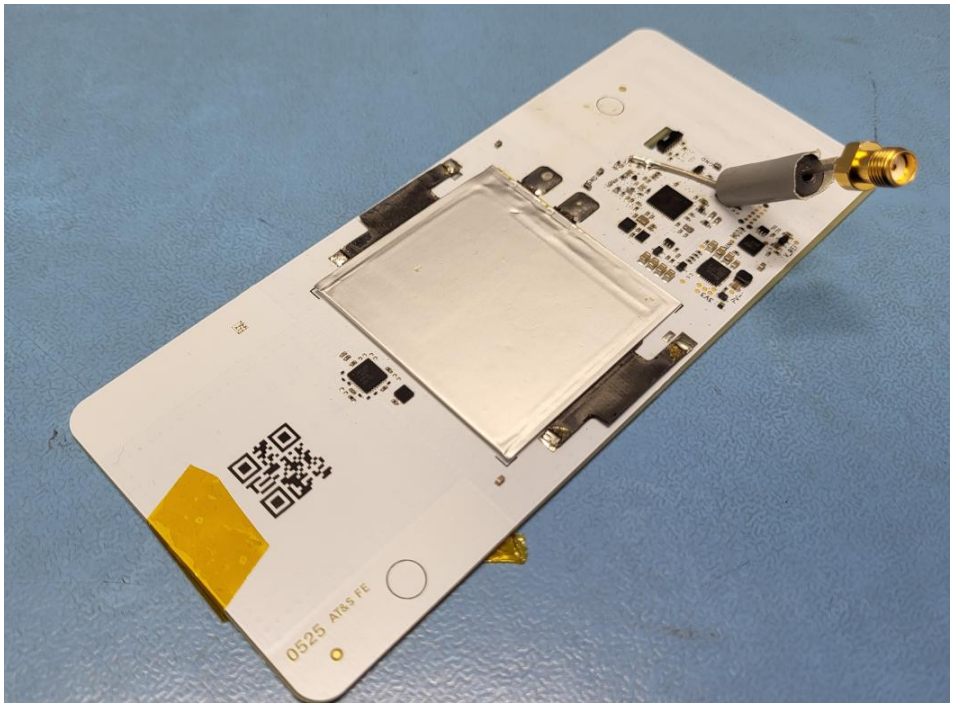


Receiving antenna HL562E

4. Test results CET215 Antenna

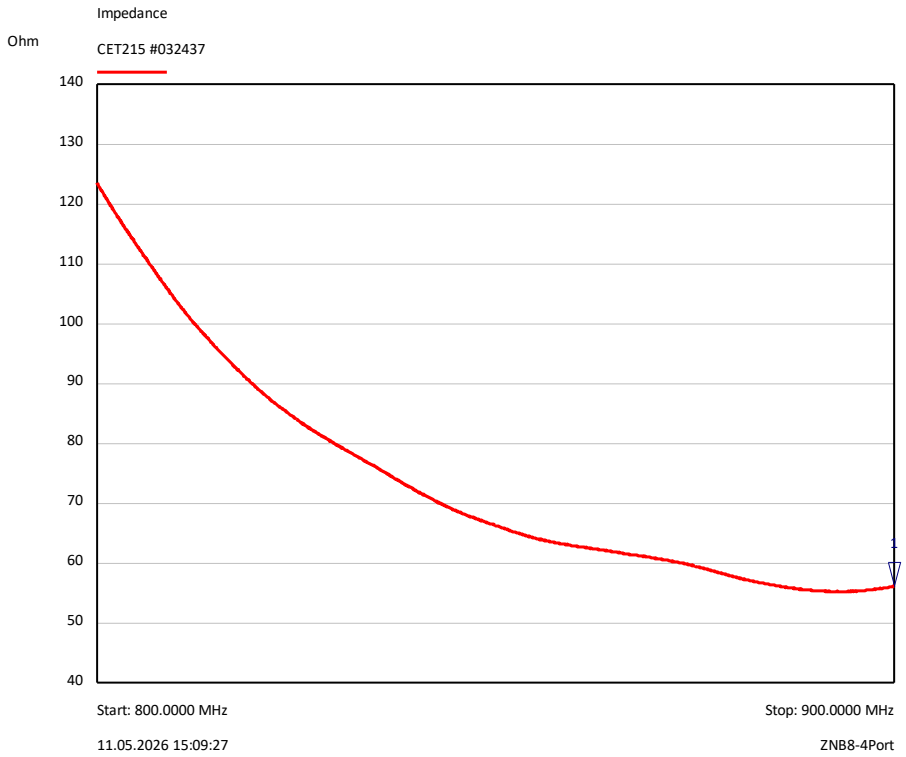
Antenna specification

Specification	Value
Peak Gain	5.07 dBi
Impedance	50-ohm nominal incl. matching network
Type	Meander line.Trace antenna, Integral
Polarization	linear
VSWR @ 913MHz	1 : 1.9
Frequency	913 MHz
Weight	
Size	
Operating Temp.	23.6 °C
UL Rating	
Brand	EOLOGIX -PING
Model code:	



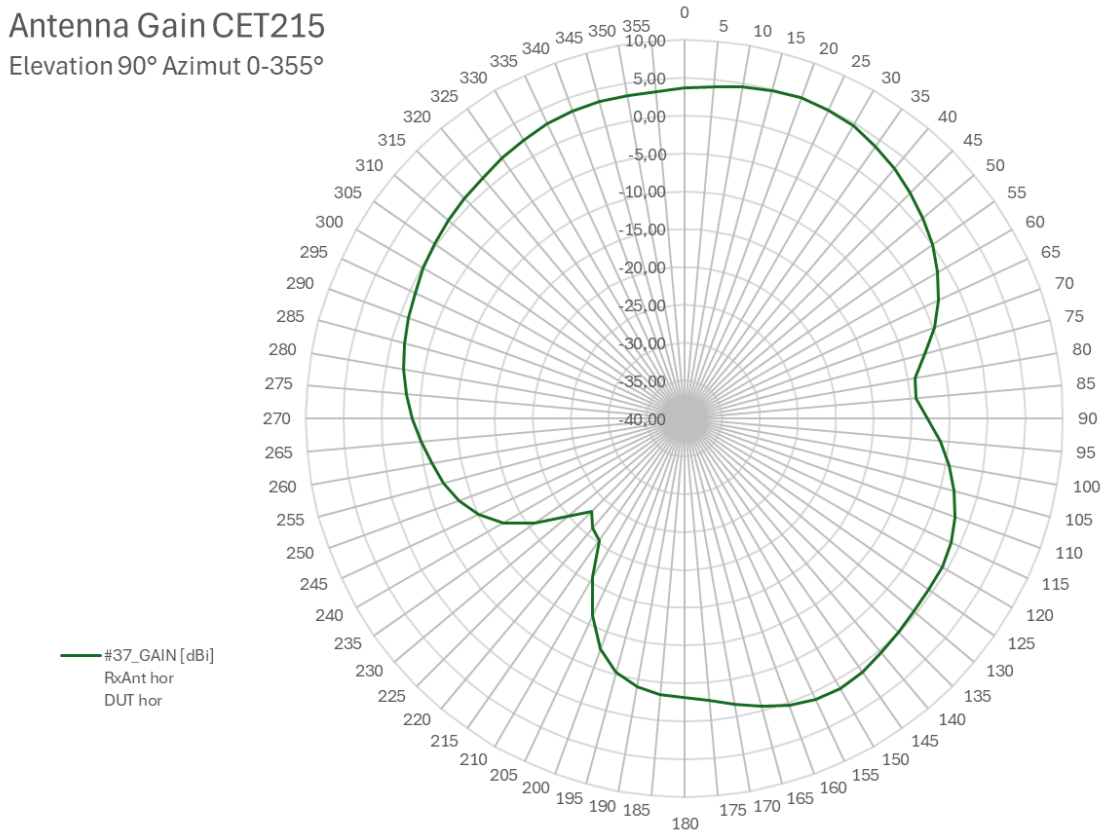
Device under test

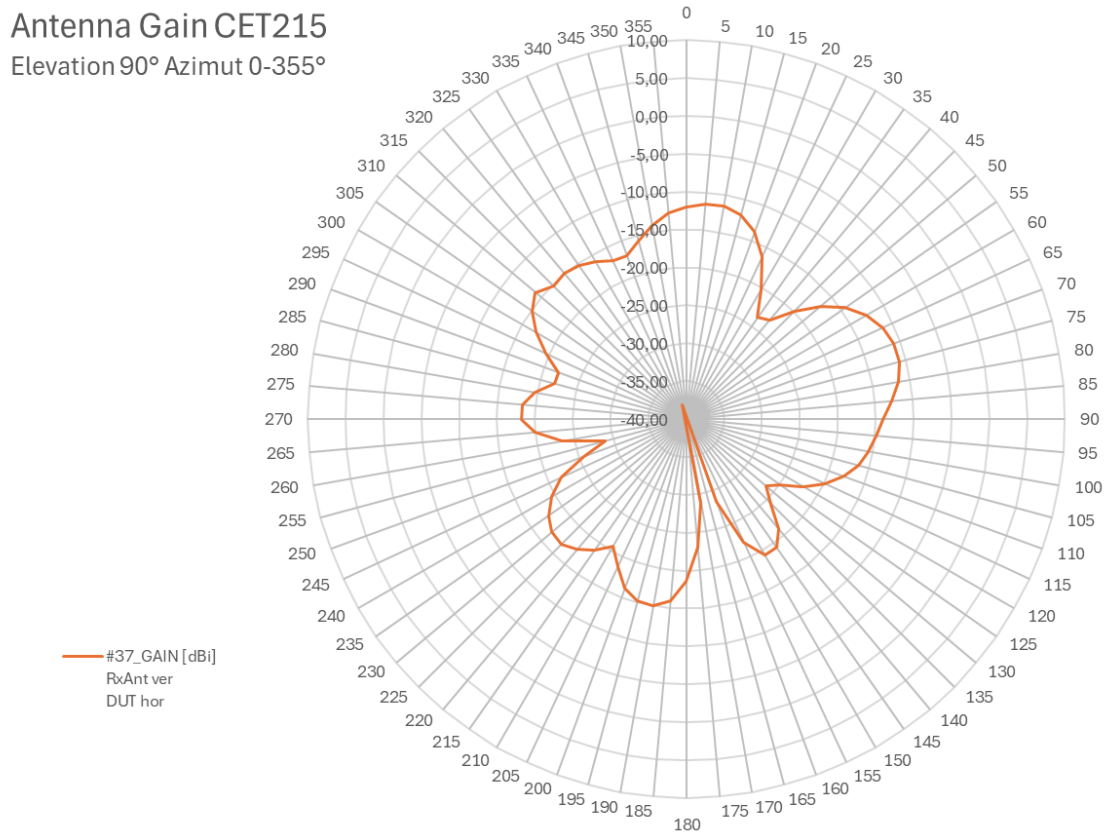
Antenna matching performance Impedance:



Mkr	Trace	X-Axis	Value	Notes
1	CET215 #032437	900.0000 MHz	56.12 Ohm	

CET215 #032437. Radiation performance 913MHz





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