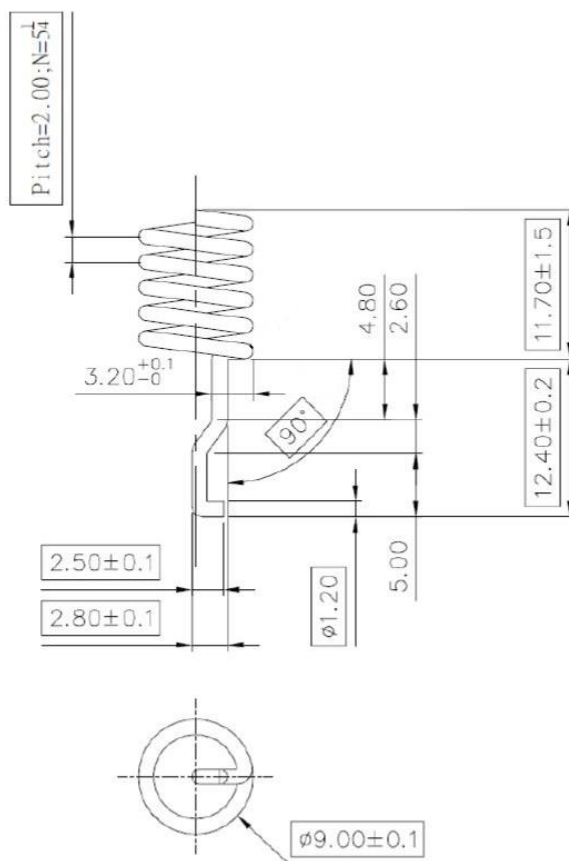


#### ELECTRICAL SPECIFICATION

PARAMETERS	VALUE	UNIT
Center Frequency	915	MHz
Return Loss, max	-10	dB
VSWR, max	2.0	-
Peak Gain	-0.73	dBi
Polarization	Linear Vertical	-
Radiation	Directional	-
Impedance	50	$\Omega$
Antenna Material	Brass $\phi$ 1.2	-
Operating Temperature Range	-20 ~ +65	$^{\circ}\text{C}$

#### DIMENSIONS

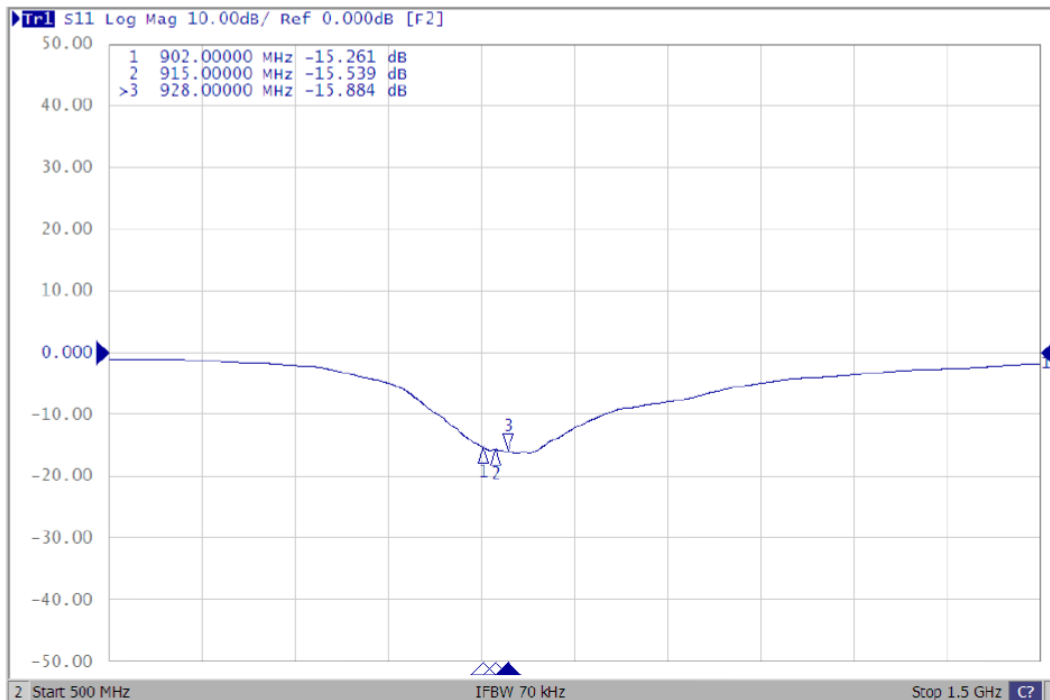


Unit: mm

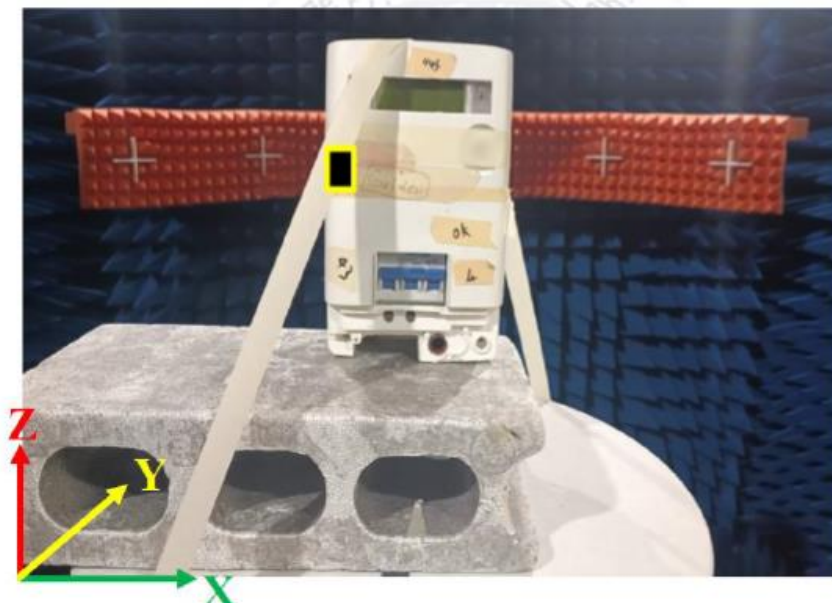
#### FREQUENCY CHARACTERISTICS

##### COIL

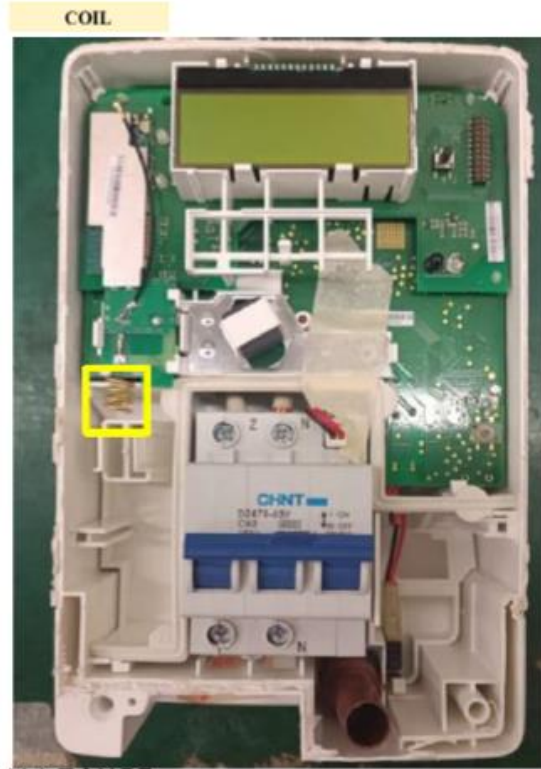
##### Return Loss



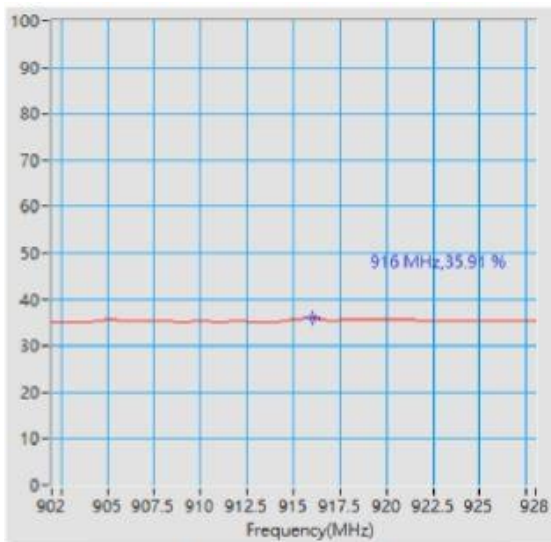
#### EXPERIMENTAL SETUP



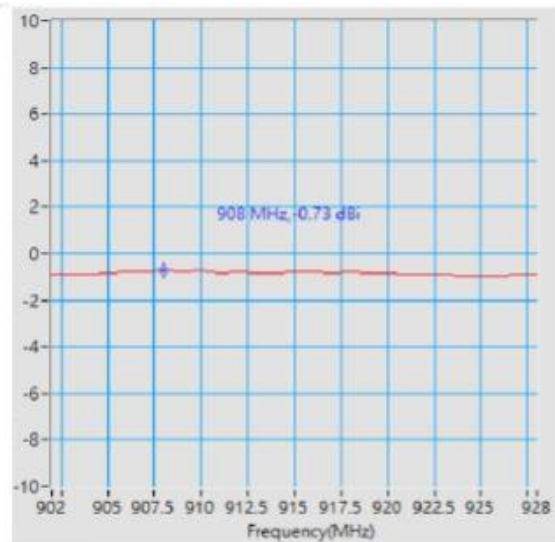
#### ■ EXPERIMENTAL SETUP



#### ■ ANTENNA EFFICIENCY AND PEAK GAIN

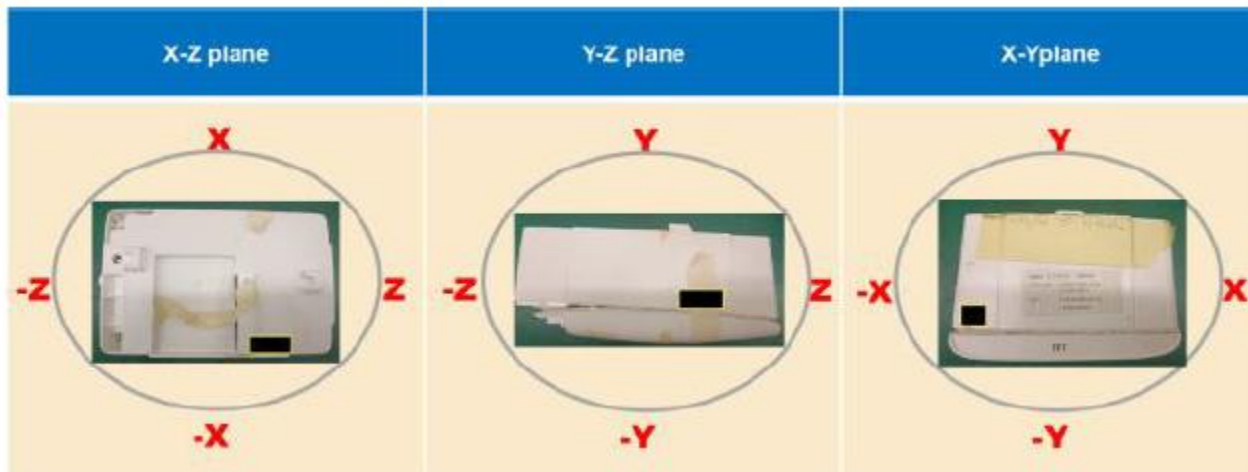


Maximum Efficiency at 916MHz : 35.91%



Maximum Peak Gain at 908MHz : -0.73dBi

■ 3 VIEWS OF ANTENNA



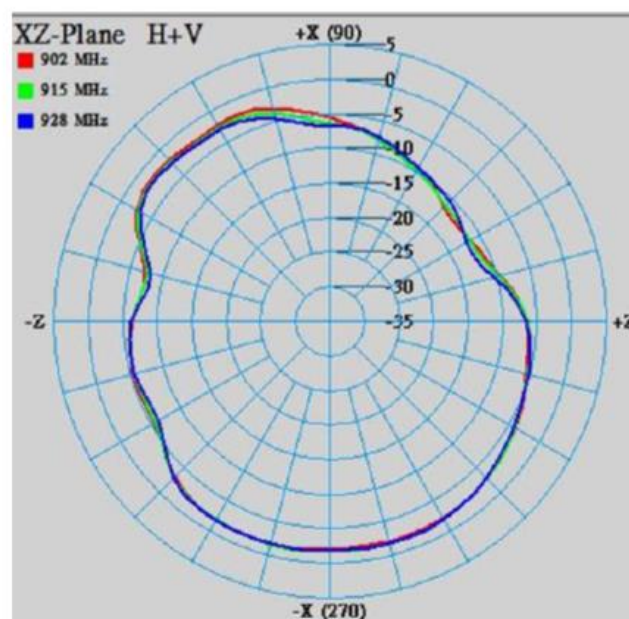
■ 2D RADIATION PATTERN

COIL

X-Z Plane

Phi=0.00deg

Gain . dB

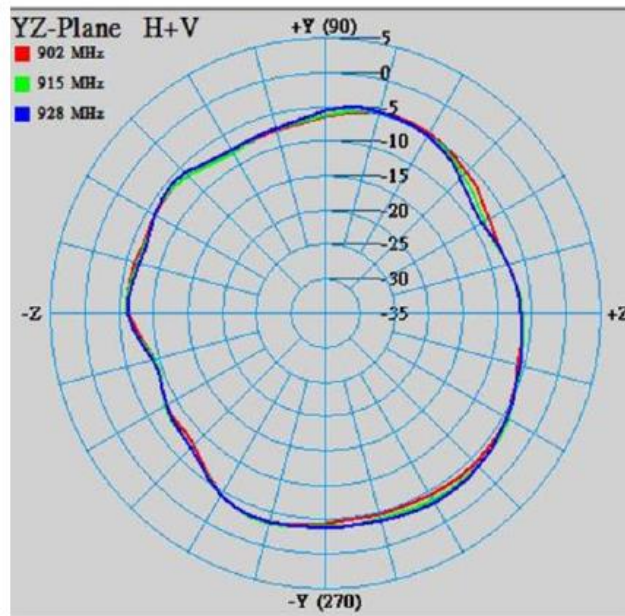




Y-Z Plane

Phi=90.00deg

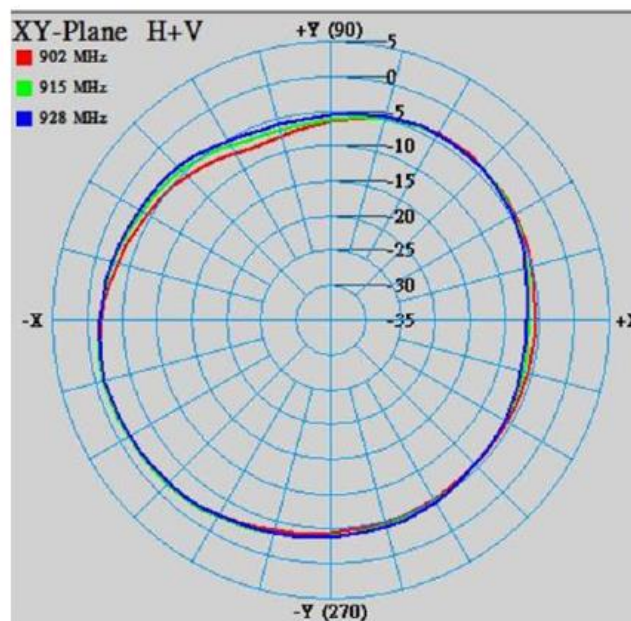
Gain . dB



X-Y Plane

Theta=90.00deg

Gain . dB



Frequency [MHz]	ZX plane		ZY plane		XY plane	
	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
902	<b>-1.77</b>	<b>-4.24</b>	<b>-3.45</b>	<b>-5.92</b>	<b>-1.41</b>	<b>-4.23</b>
915	<b>-1.55</b>	<b>-4.30</b>	<b>-3.43</b>	<b>-5.75</b>	<b>-1.19</b>	<b>-4.00</b>
928	<b>-1.67</b>	<b>-4.44</b>	<b>-3.24</b>	<b>-5.69</b>	<b>-1.42</b>	<b>-3.96</b>

#### ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



#### APPROVAL

RALTRON	
DRAWN BY:	AR, October 13, 2023
APPROVED BY:	CP, October 13, 2023
REVISION:	A, Initial Release

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