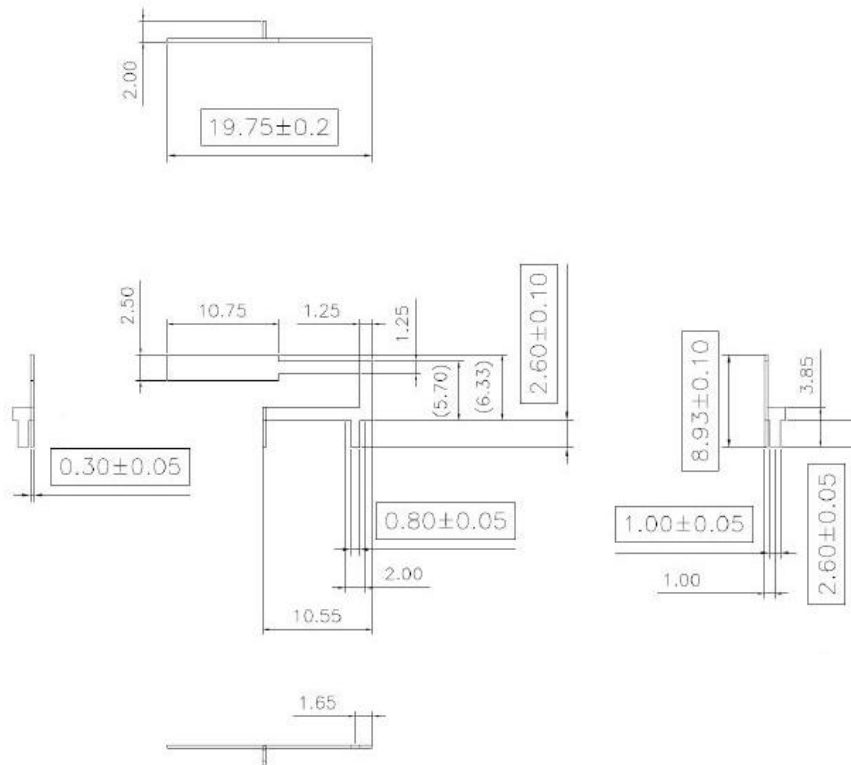
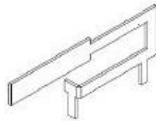


ELECTRICAL SPECIFICATION

PARAMETERS	VALUE	UNIT
Frequency Range	2400 ~ 2500	MHz
Return Loss, max	-10	dB
VSWR, max	2	-
Peak Gain	4.47	dBi
Impedance	50	Ω
Polarization	Linear Vertical	-
Radiation Pattern	Directional	-
Antenna Material	SUS430	-
	T	0.3

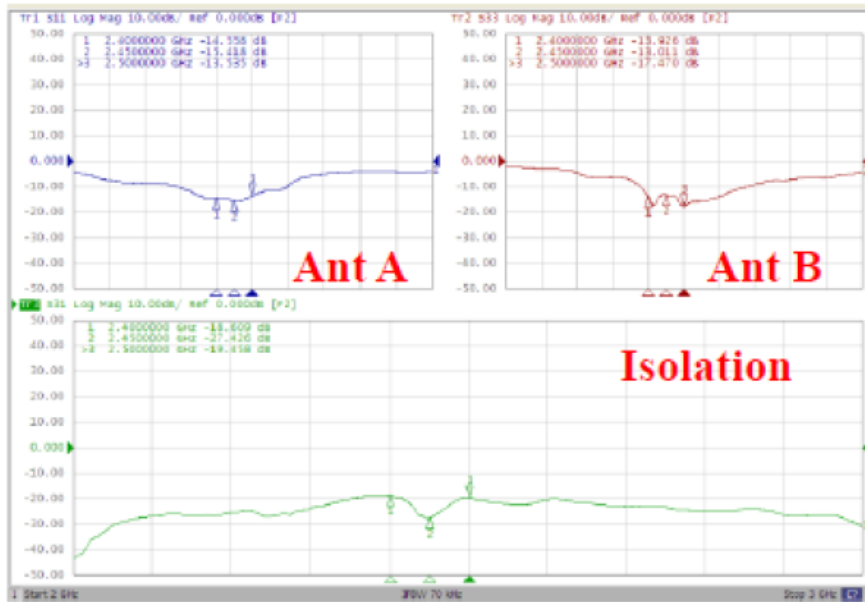
DIMENSIONS

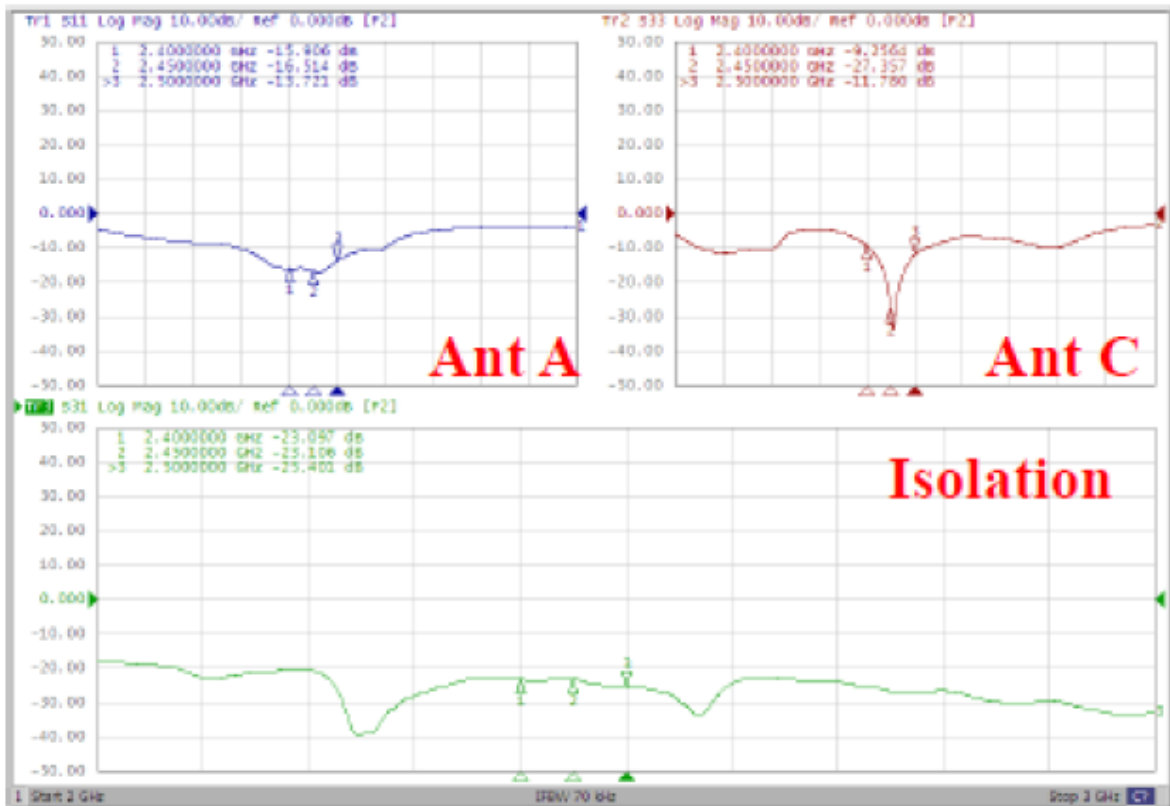


Unit : mm

■ FREQUENCY CHARACTERISTICS

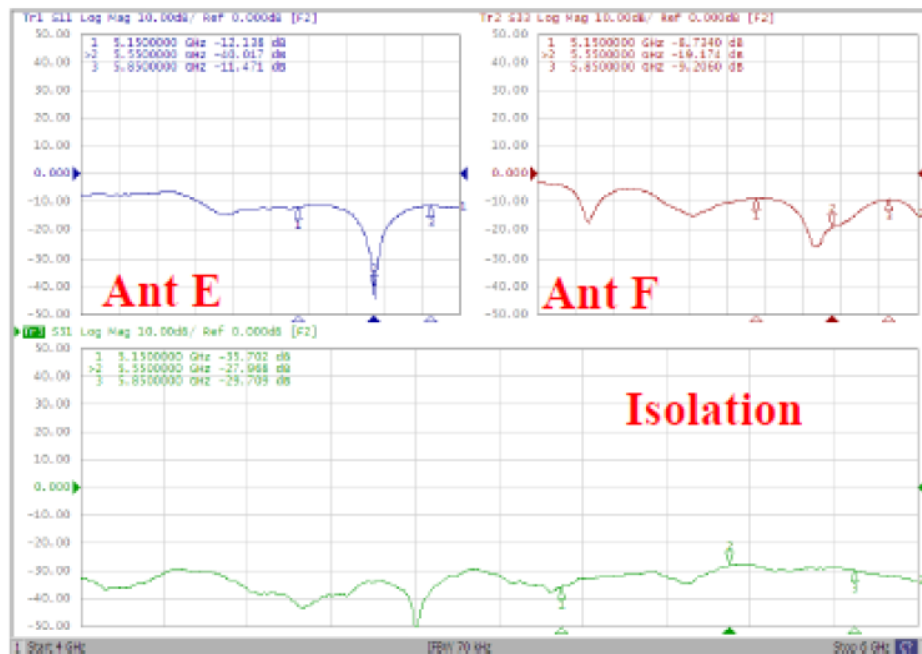
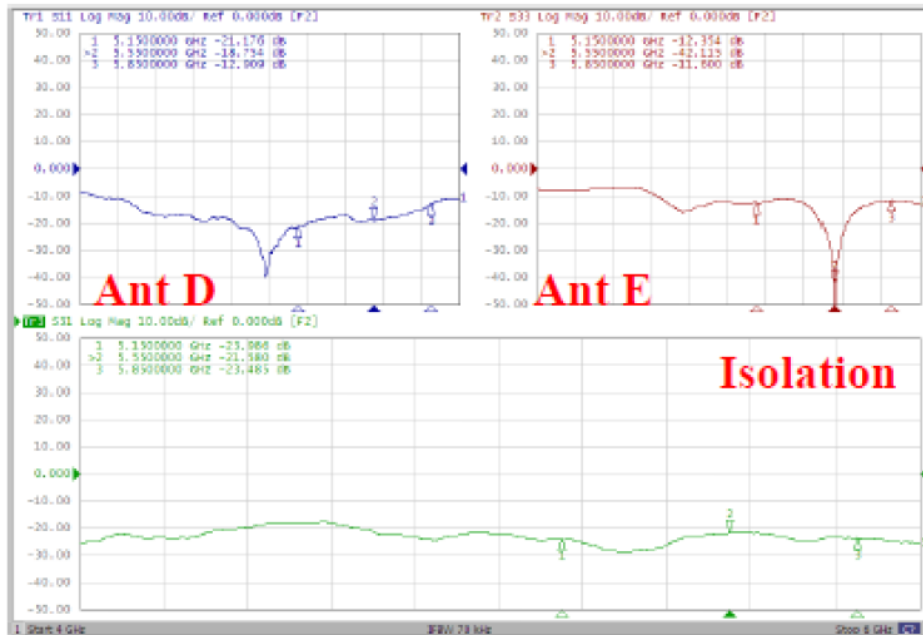
S11 & Isolation [2G] Ant A & Ant B & Ant C

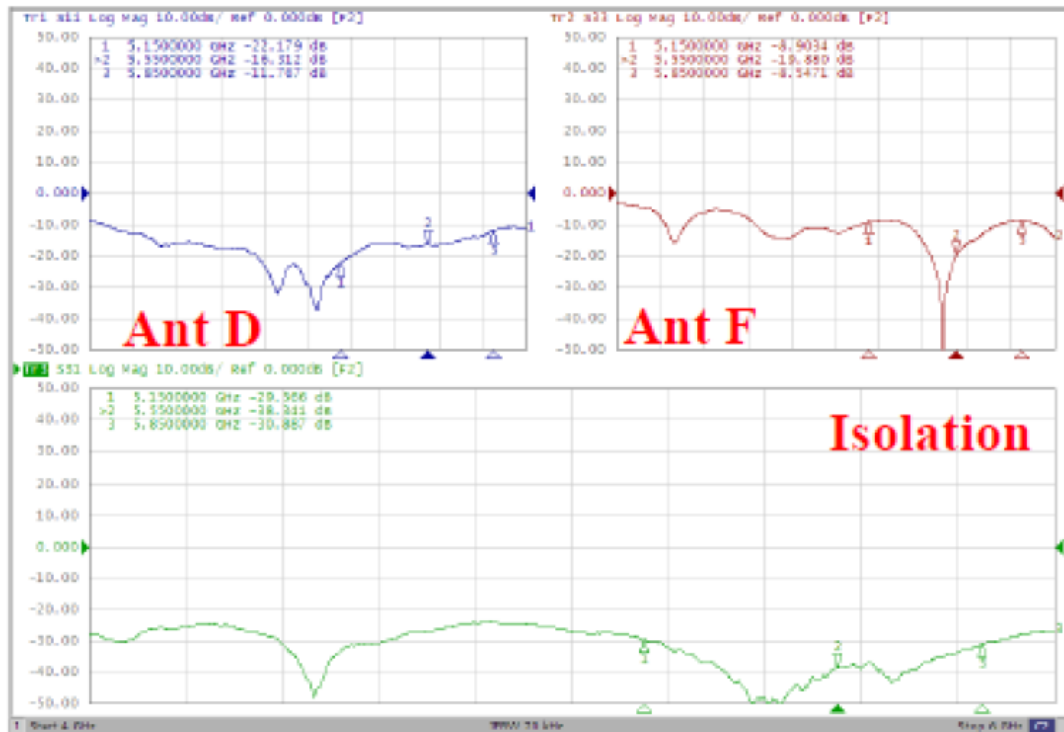




			2.4GHz	2.45GHz	2.5GHz
S11		Ant A_2G(dB)	-14.5	-15.4	-13.5
		Ant B_2G(dB)	-13.9	-13	-17.4
		Ant C_2G(dB)	-9.2	-27.3	-11.7
S21	2G	ANT A-ANT B(dB)	-18.6	-27.4	-19.4
		ANT A-ANT C(dB)	-23	-23.1	-25.4
		ANT B-ANT C(dB)	-24	-21	-22.2

【5G】 Ant D & Ant E & Ant F

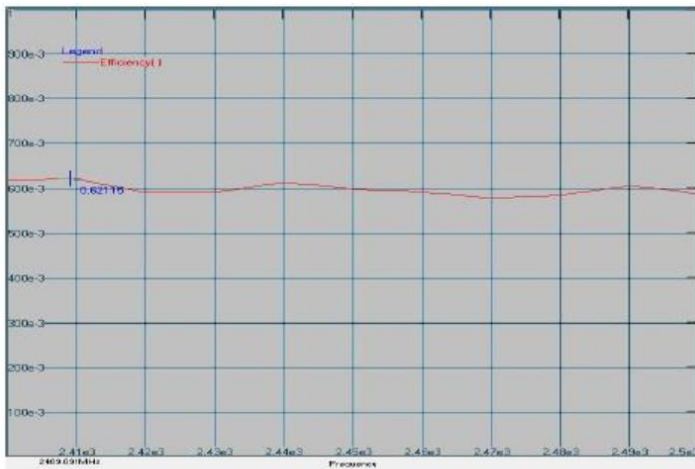
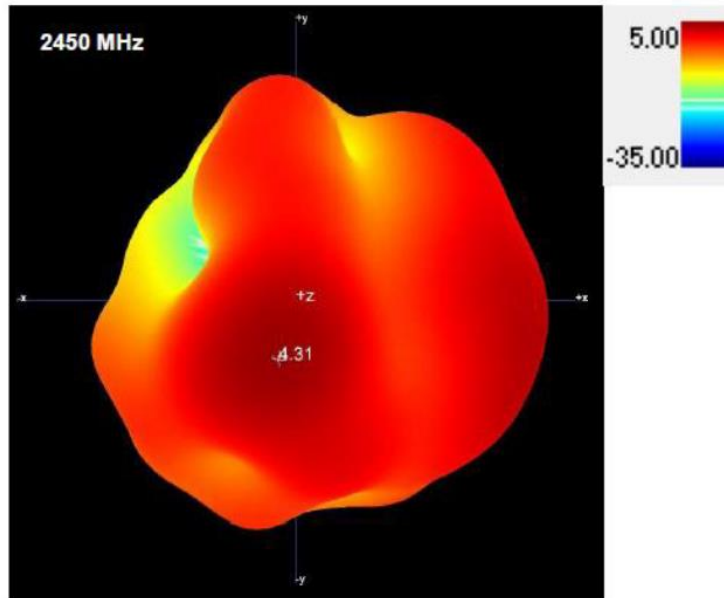




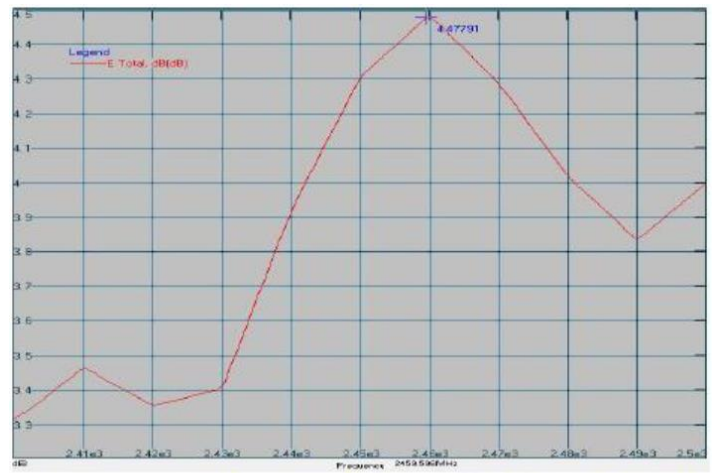
			5.15GHz	5.5GHz	5.85GHz
S11	Ant D_5G(dB)		-21.1	-18.7	-12.9
	Ant E_5G(dB)		-12.3	-42.1	-11.6
	Ant F_5G(dB)		-8.9	-19.8	-8.5
S21	5G	ANT D-ANT E(dB)	-23.9	-21.5	-23.4
		ANT D-ANT F(dB)	-29.5	-38.3	-30.8
		ANT E-ANT F(dB)	-35.7	-27.9	-29.7

■ ANTENNA PEAK GAIN

2GHz



Maximum Efficiency at 2409 MHz : 62.1 %

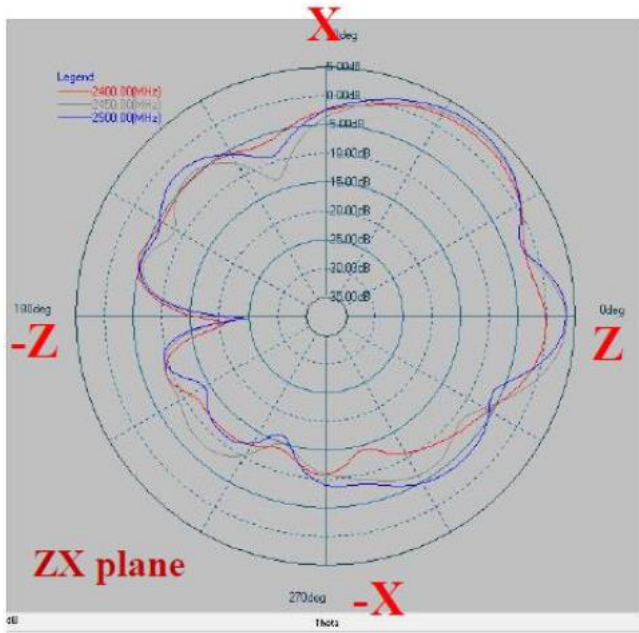


Maximum Peak Gain at 2459 MHz : 4.47 dBi

■ RADIATION PATTERN

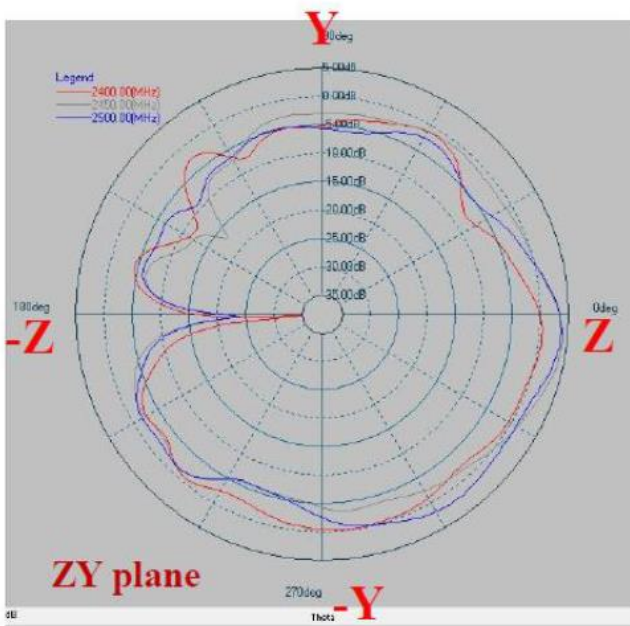
2400~2500 MHz

Phi=0.00deg



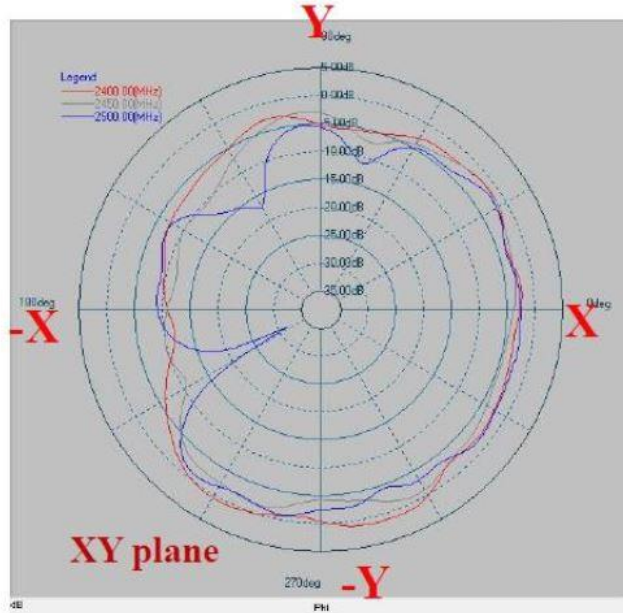
	ZX plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
2400	2.37 dB	-3.58 dB
2450	3.48 dB	-2.72 dB
2500	3.62 dB	-2.38 dB

Phi=90.00deg



	ZY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
2400	0.52 dB	-2.86 dB
2450	4.20 dB	-1.93 dB
2500	3.87 dB	-1.81 dB

Theta=90.00deg



	XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
2400	0.99 dB	-2.84 dB
2450	-1.05 dB	-4.33 dB
2500	-1.02 dB	-4.49 dB

ENVIRONMENTAL

PARAMETER	VALUE
RoHS	Compliant
REACH SVHC	Compliant
HALOGEN-FREE	Compliant



APPROVAL

RALTRON	
DRAWN BY:	AR, March 30, 2022
APPROVED BY:	CP, March 30, 2022
REVISION:	A, Initial Release

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