

Electrical Specifications

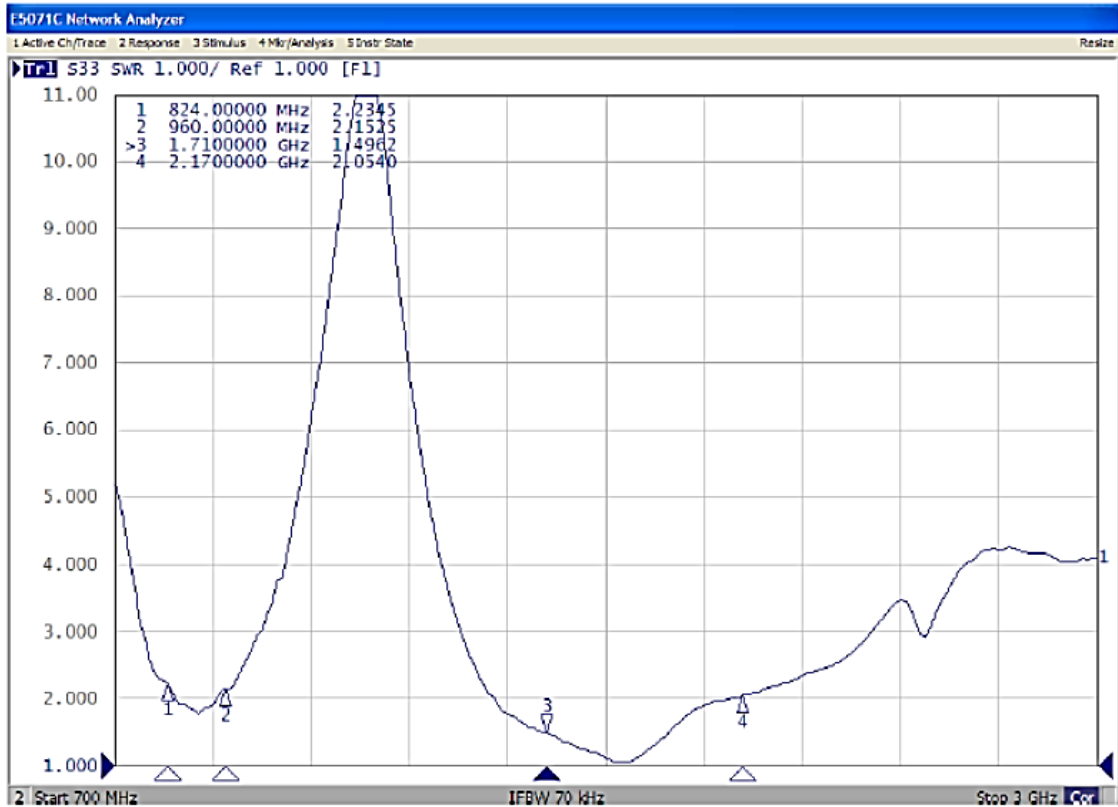
Parameters	Value		Unit
Frequency	824 ~ 960	1710 ~ 2170	MHz
Peak Gain	2.60	5.69	dBi
VSWR, max	3.0		-
Nominal Impedance	50		Ω
Polarization	Linear Vertical		-
Radiation	Omni-directional		-
Power, max	1		W
Connector	SMA Plug		-
Cable	RG178		-

Dimensions



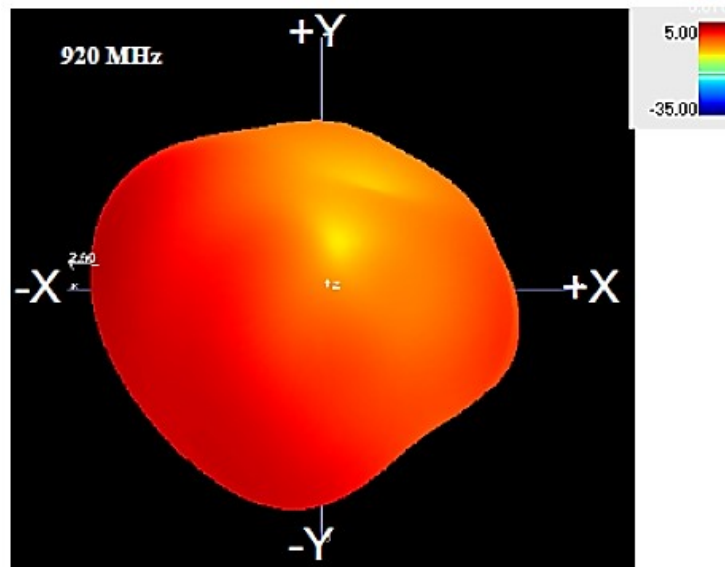
Unit: mm

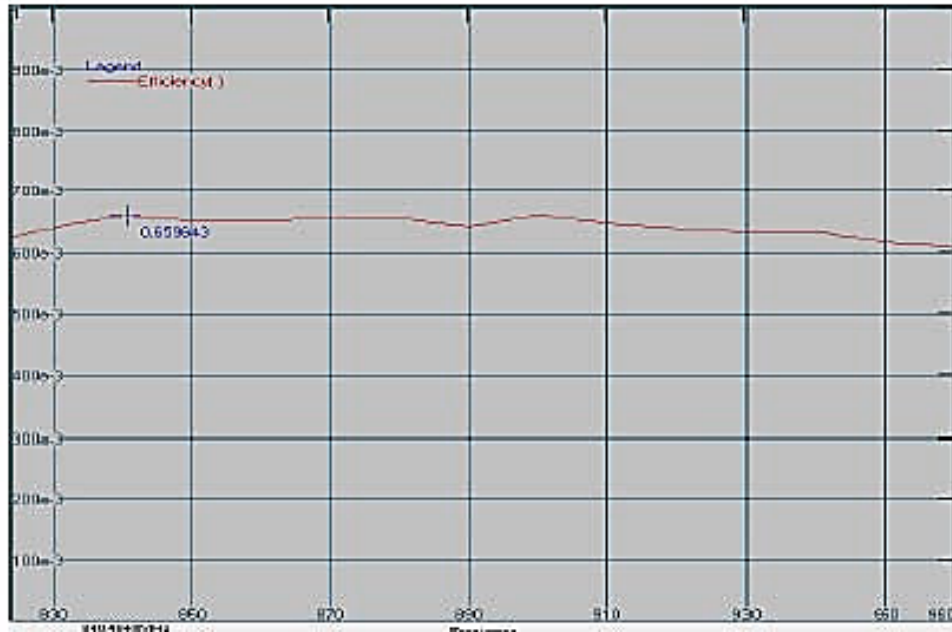
Frequency Characteristics



Antenna Efficiency and Peak Gain

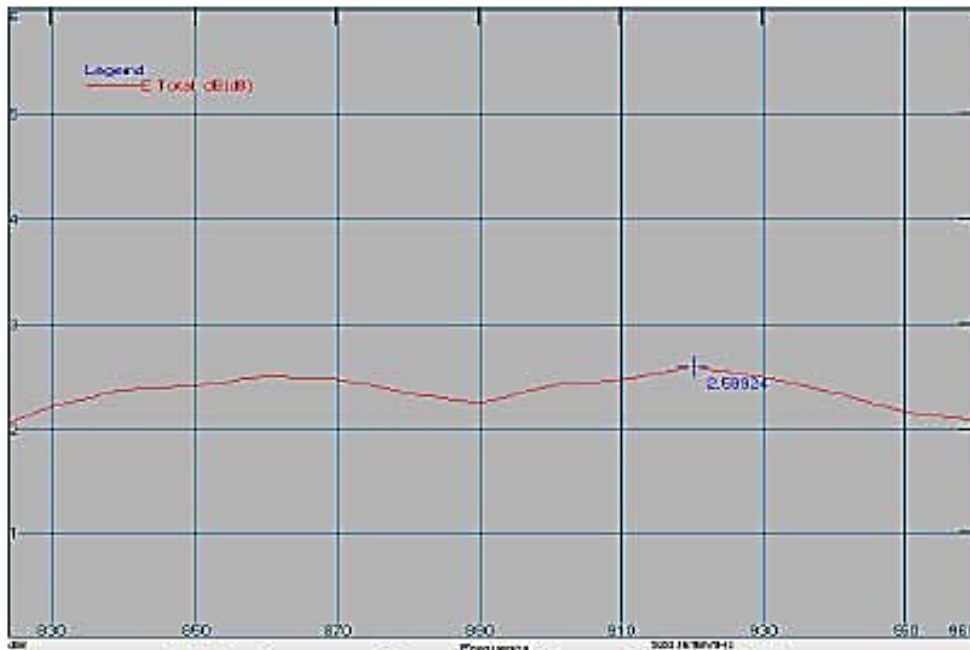
824 ~ 960 MHz



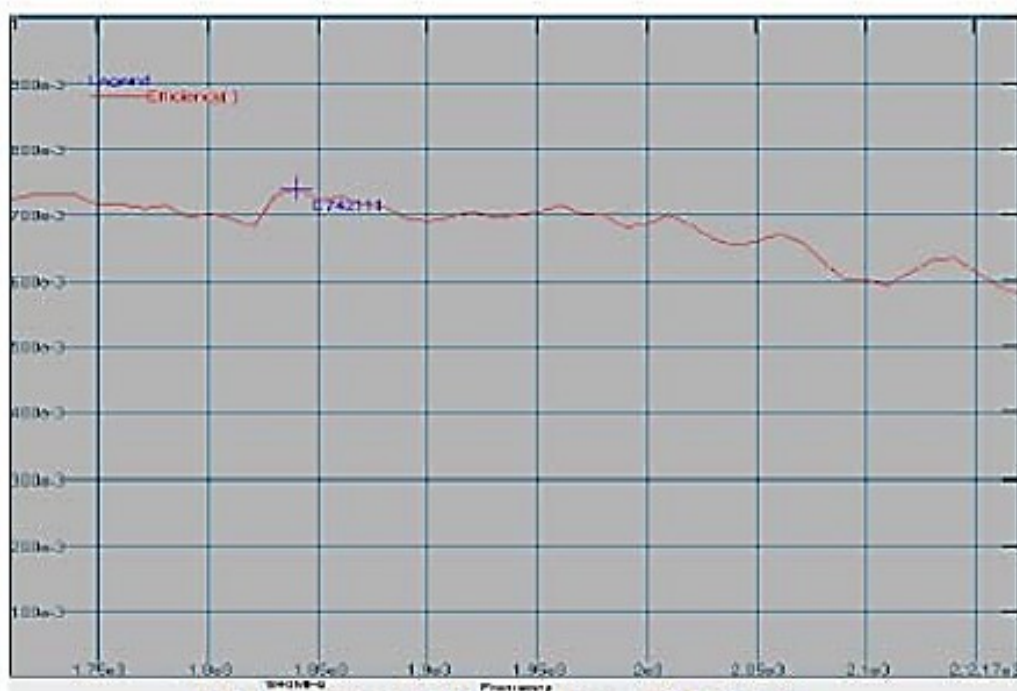
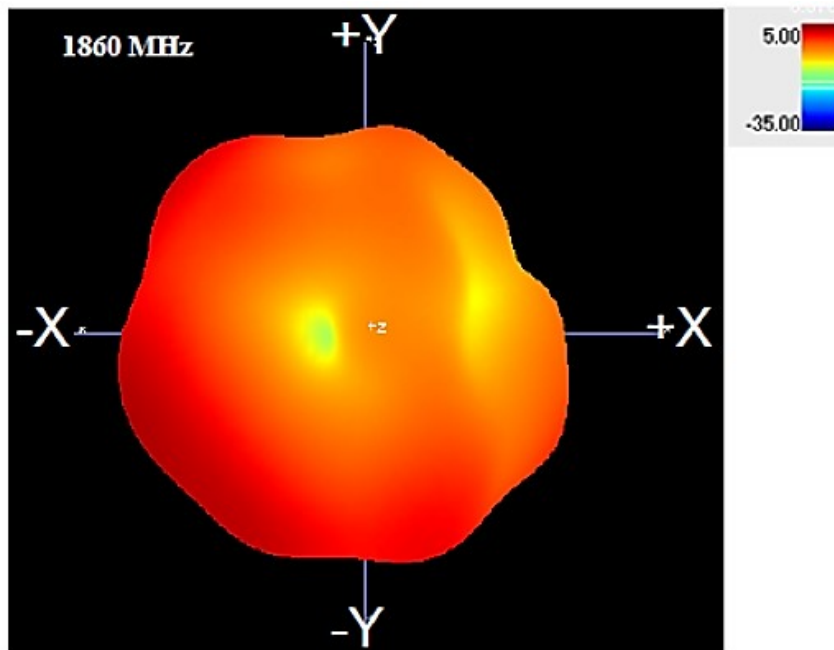


Maximum Efficiency 65.9%

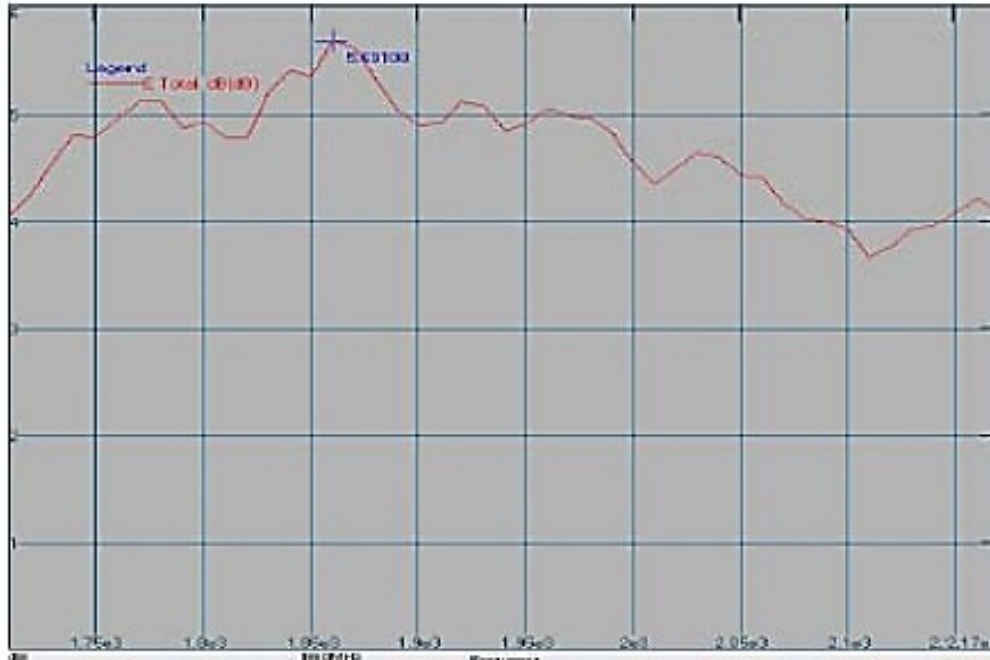
1710 ~ 2170 MHz



Maximum Peak Gain 2.59dBi



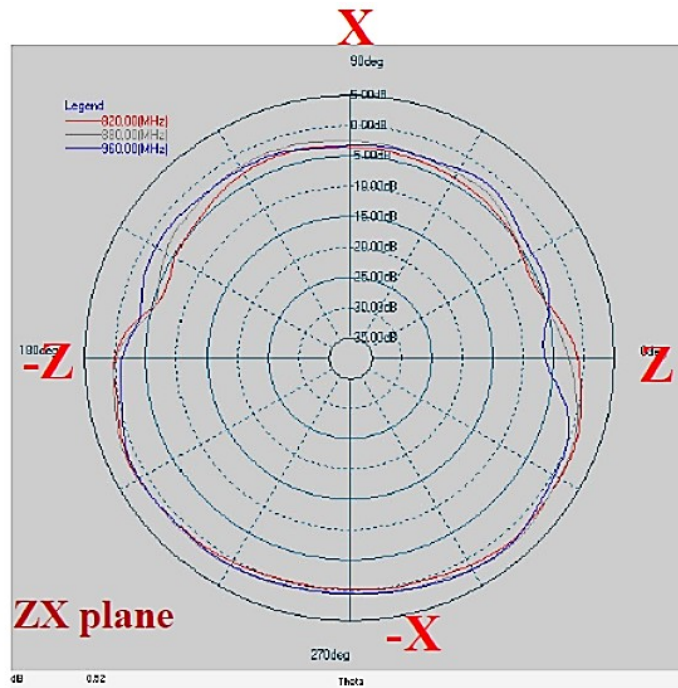
Maximum Efficiency 74.2%



Radiation Pattern

824 ~ 960 MHz

X - Z PLANE
Phi = 0

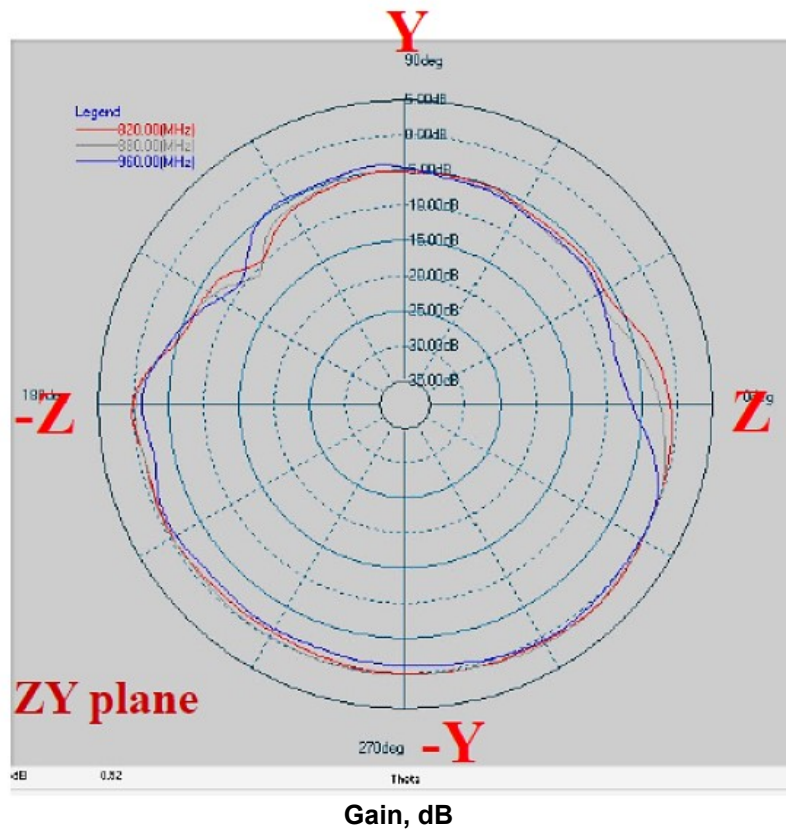


RATW-892-1940-23M-A

	ZX plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
824	1.69 dB	-1.02 dB
880	2.35 dB	-0.61 dB
960	2.09 dB	-0.83 dB

Y – Z Plane

Phi = 90°

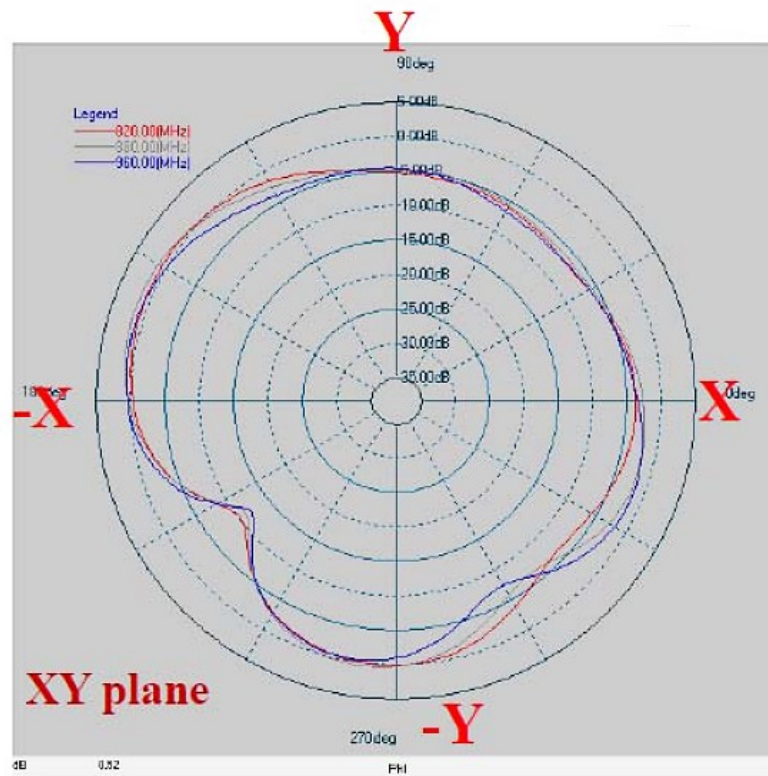


RATW-892-1940-23M-A

Frequency [MHz]	ZY plane	
	Max Value [dB]	Average [dB]
824	1.03 dB	-1.91 dB
880	1.04 dB	-1.93 dB
960	0.53 dB	-2.72 dB

X – Y Plane

Theta = 90°



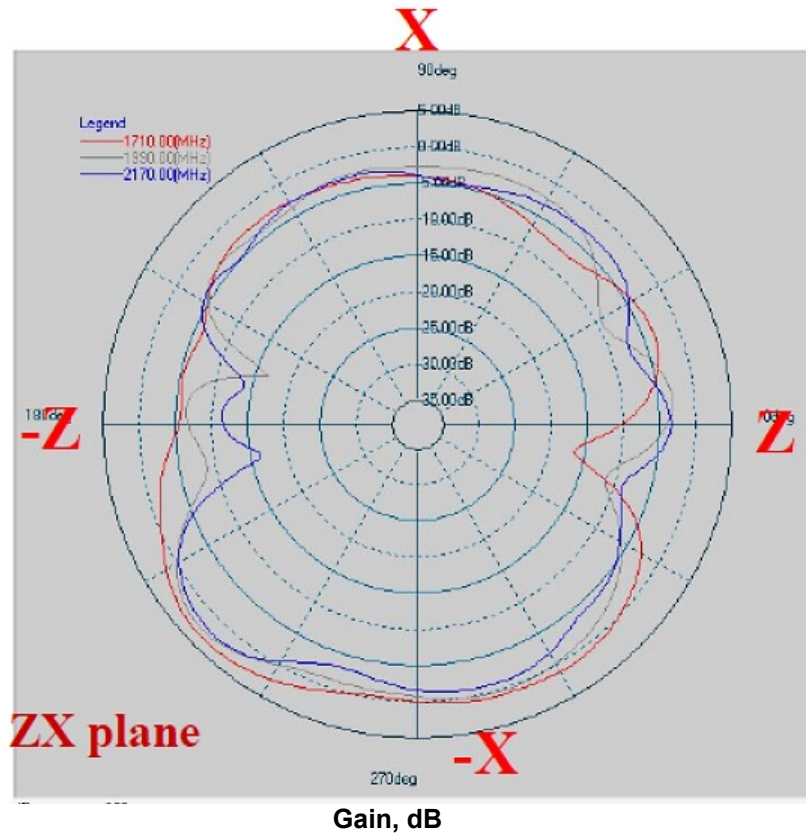
RATW-892-1940-23M-A

Frequency [MHz]	XY plane	
	Max Value [dB]	Average [dB]
824	0.67 dB	-2.84 dB
880	1.60 dB	-2.46 dB
960	0.98 dB	-3.02 dB

1710 ~ 2170 MHz

X - Z Plane

Phi = 0°

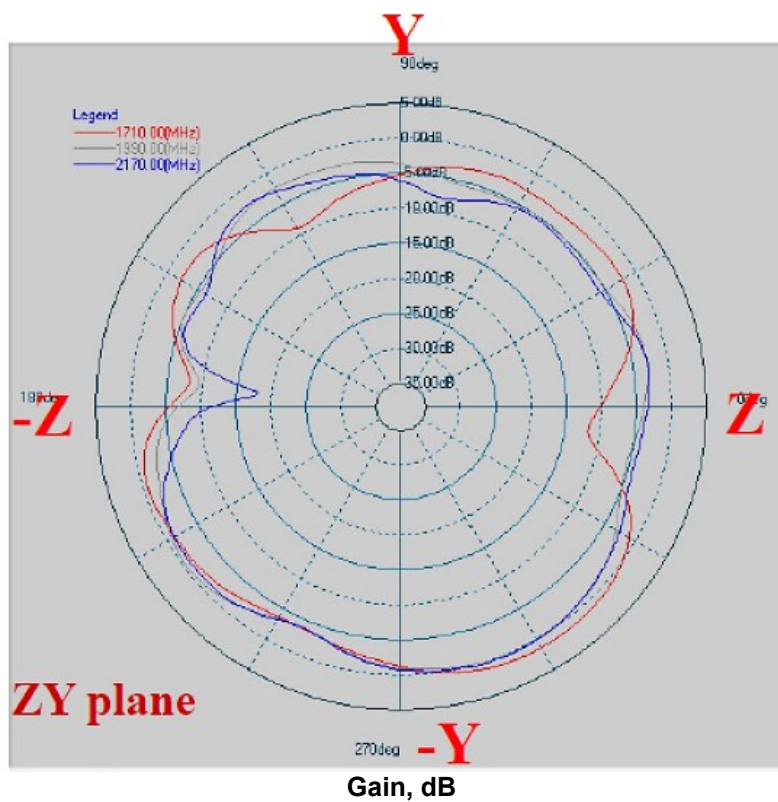


RATW-892-1940-23M-A

	ZX plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
1710	3.45 dB	-1.69 dB
1900	2.64 dB	-2.58 dB
2170	2.04 dB	-3.31 dB

Y - Z Plane

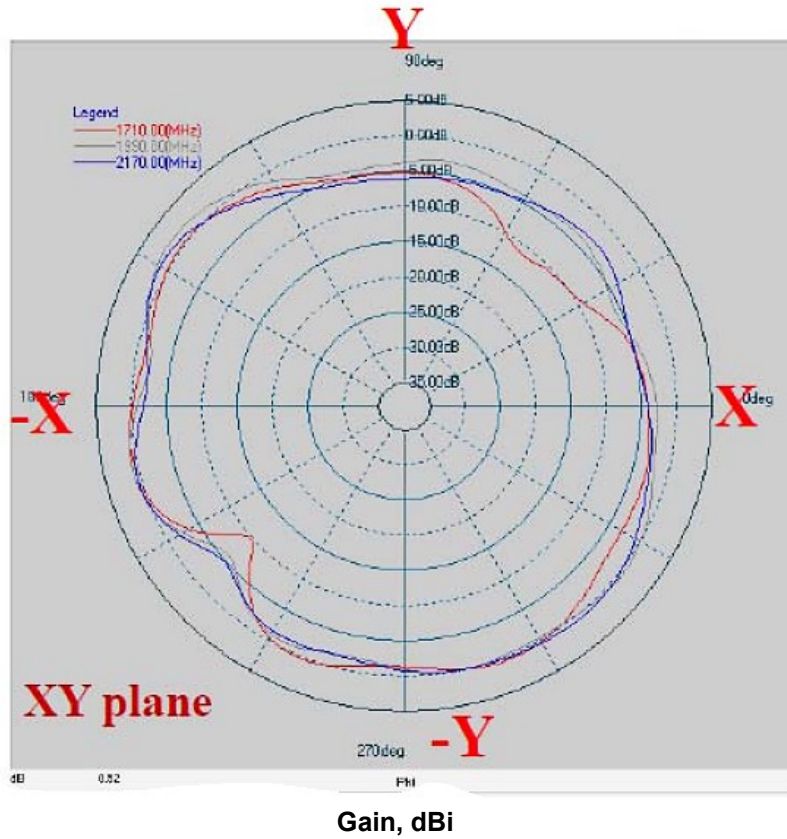
Phi = 90°



	ZY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
1710	1.33 dB	-2.60 dB
1900	0.13 dB	-2.96 dB
2170	0.09 dB	-3.28 dB

X – Y Plane

Theta = 90°



	XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]
1710	0.60 dB	-2.34 dB
1900	1.91 dB	-1.47 dB
2170	1.26 dB	-1.84 dB

• APPROVAL

DRAWN BY	AR, August 20, 2019
APPROVED BY	CP, August 20, 2019
REVISION	A, Initial Release