

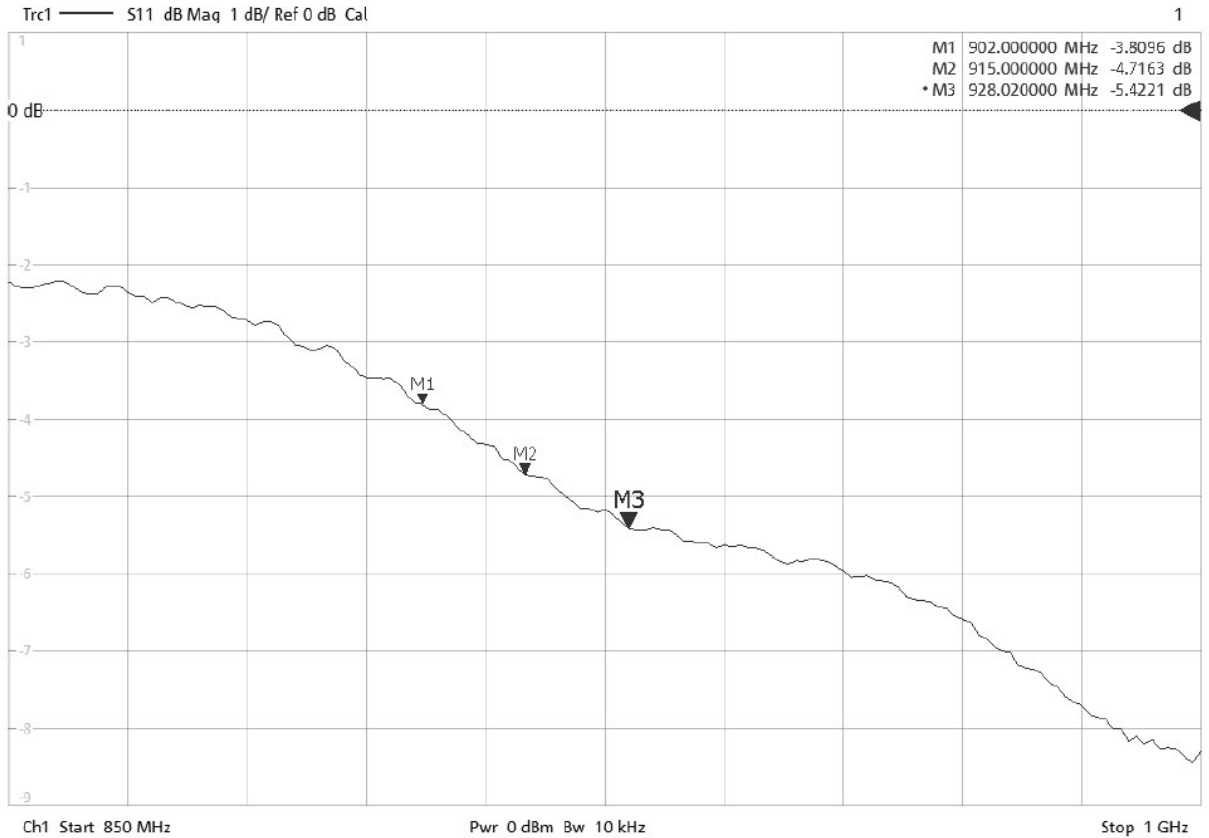
900 MHz External Antenna Datasheet

7.1. ENVIRONMENTAL CONDITIONS:

The temperature at the time of the test was 24°C and the relative humidity was 33%.

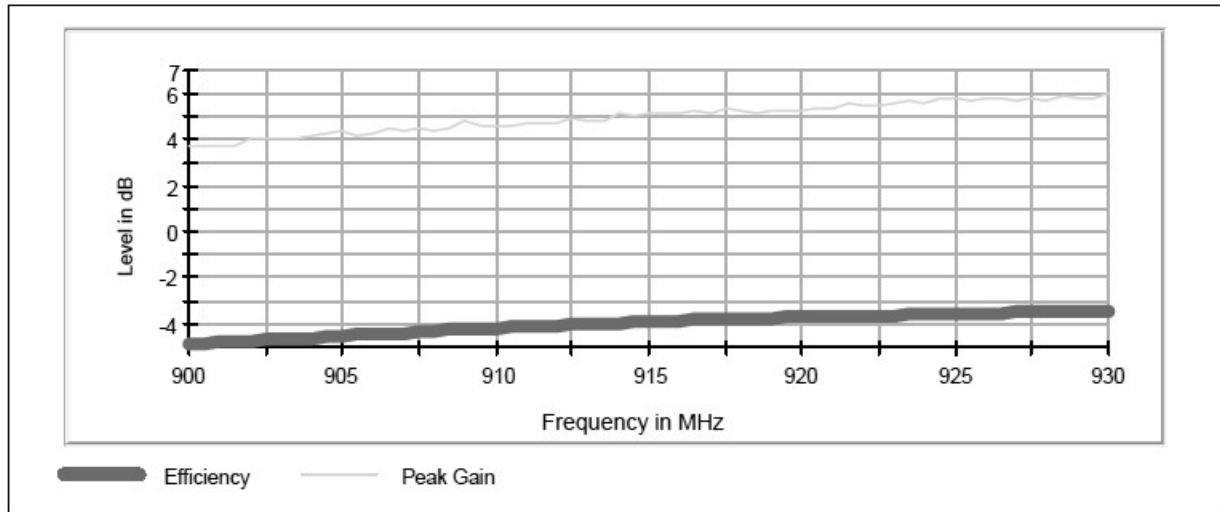
7.2. RETURN LOSS

4/19/2023 10:30:49 AM
1328.5170K92-101137-a2



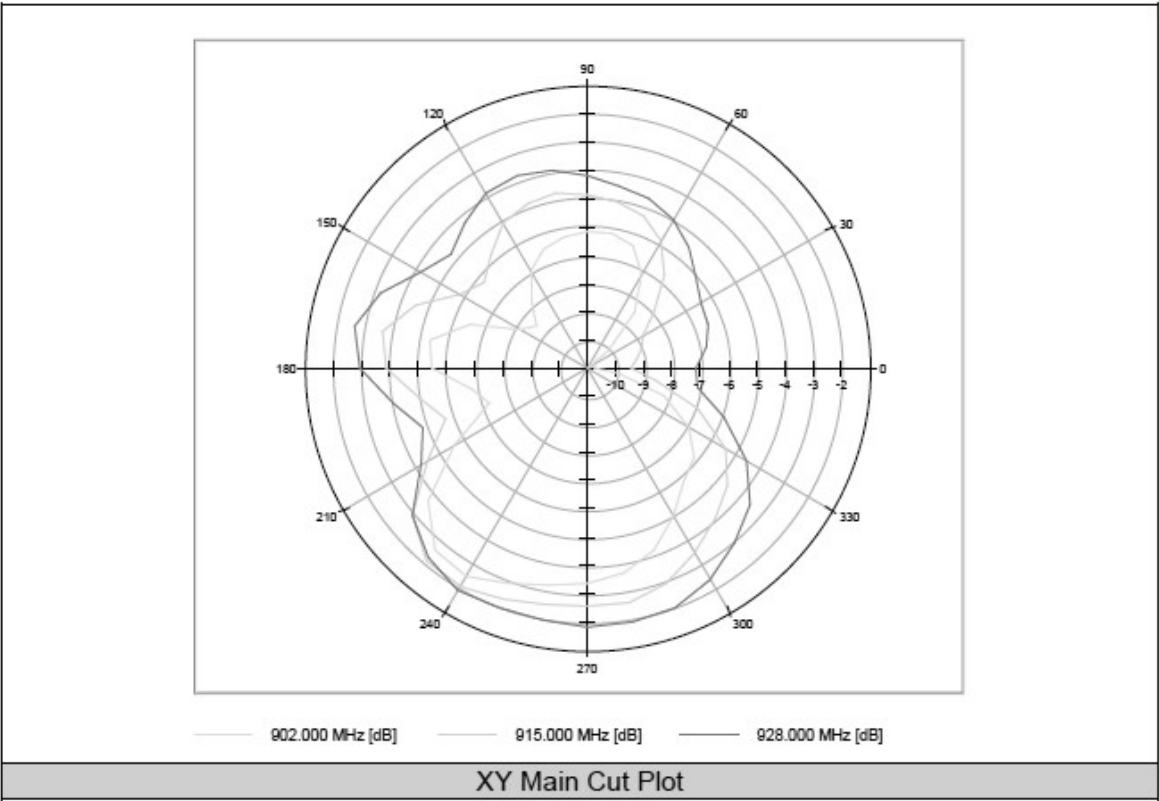
7.3 Measurements

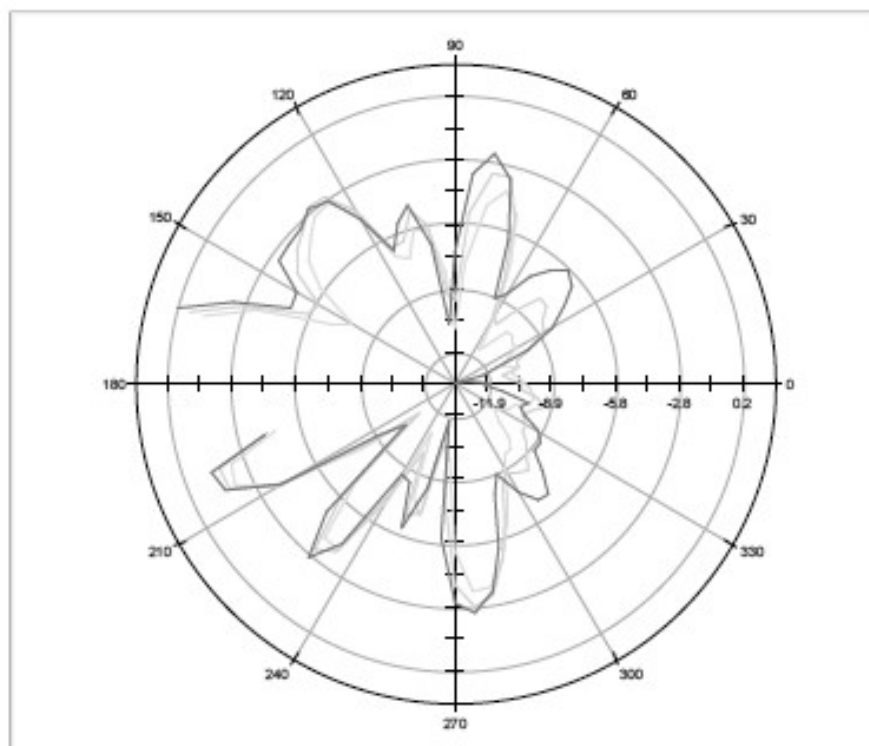
FREESPACE				
Frequency (MHz)	Peak Gain	Directivity	Total Radiated Power	Total Efficiency
	(dBi)	(dBi)	(dBm)	(%)
902MHz	4.1	8.8	-4.7	33.5
915MHz	5.1	9	-3.9	40.5
928MHz	5.7	9.2	-3.5	44.6



EXPANDED TABLE																
Frequency (MHz)	900	902	904	906	908	910	912	914	916	918	920	922	924	926	928	930
Tot. Rad. Pwr. (dBm)	-4.9	-4.7	-4.6	-4.5	-4.3	-4.2	-4.1	-4	-3.9	-3.8	-3.7	-3.7	-3.6	-3.5	-3.5	-3.5
Peak EIRP (dBm)	3.7	4.1	4.1	4.3	4.4	4.6	4.7	5.1	5.2	5.3	5.2	5.5	5.6	5.8	5.7	6
Directivity (dBi)	8.6	8.8	8.7	8.8	8.7	8.8	8.8	9.1	9.1	9.1	9	9.1	9.2	9.3	9.2	9.5
Efficiency (dB)	-4.9	-4.7	-4.6	-4.5	-4.3	-4.2	-4.1	-4	-3.9	-3.8	-3.7	-3.7	-3.6	-3.5	-3.5	-3.5
Efficiency (%)	32.2	33.5	34.5	35.7	37	38	38.9	40	40.9	41.8	42.4	43.1	43.7	44.2	44.6	45
Gain (dBi)	3.7	4.1	4.1	4.3	4.4	4.6	4.7	5.1	5.2	5.3	5.2	5.5	5.6	5.8	5.7	6

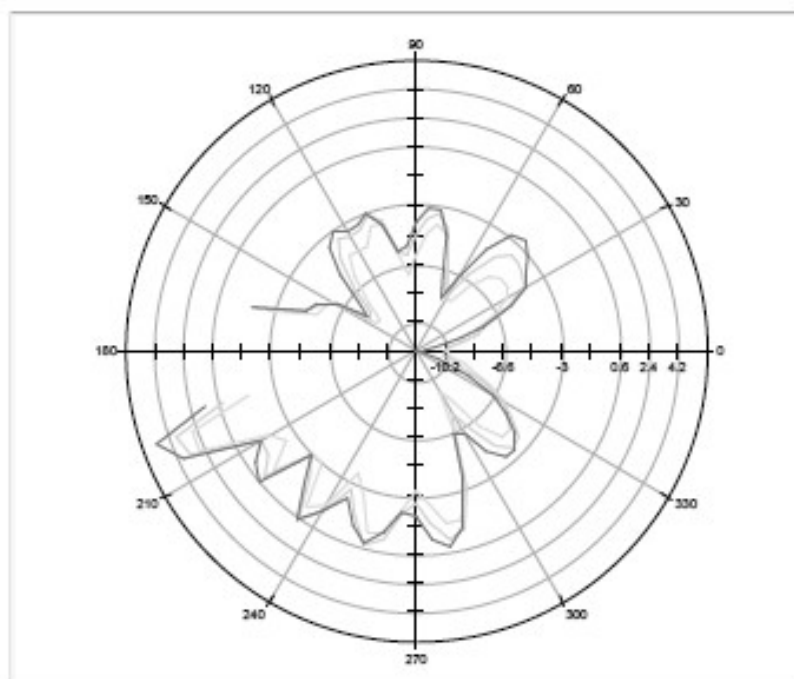
8.1. 2D MAIN CUTS





—— 902.000 MHz [dB] —— 915.000 MHz [dB] —— 928.000 MHz [dB]

XZ Main Cut Plot (Turntable is 180°)



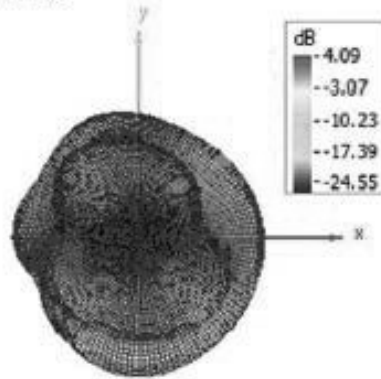
—— 902.000 MHz [dB] —— 915.000 MHz [dB] —— 928.000 MHz [dB]

YZ Main Cut Plot (Turntable is 180°)

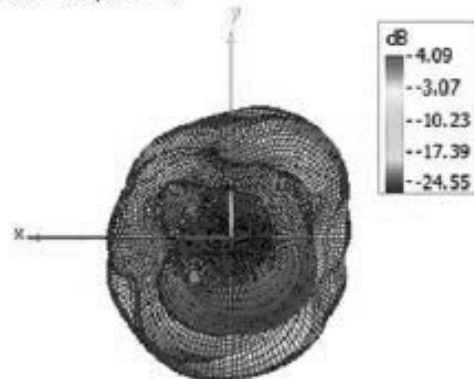
8.2. 3D PLOTS

902MHz

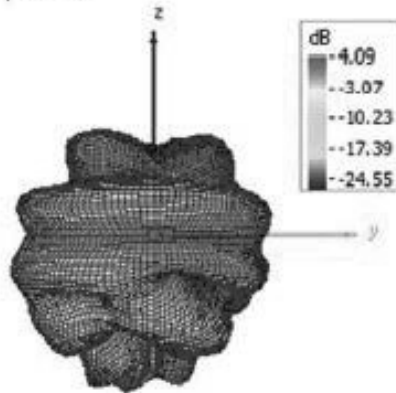
Theta = 0, Phi = 0



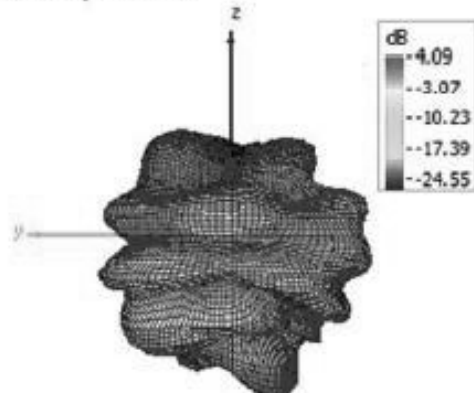
Theta = 180, Phi = 0



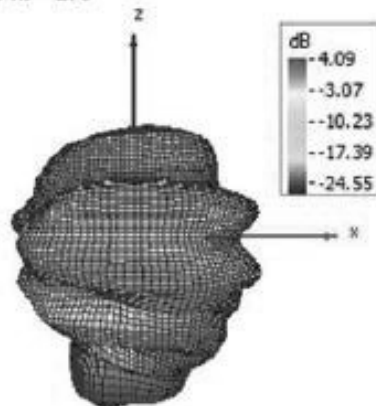
Theta = 90, Phi = 0



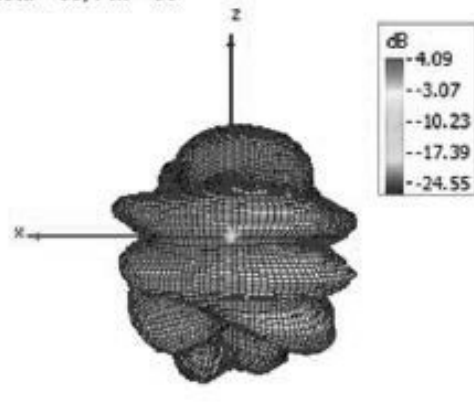
Theta = 90, Phi = 180



Theta = 90, Phi = 270

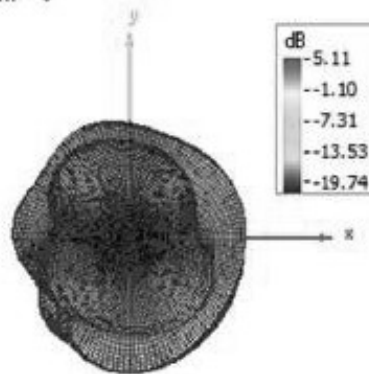


Theta = 90, Phi = 90

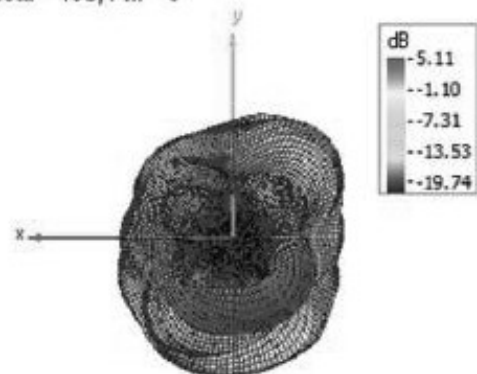


915MHz

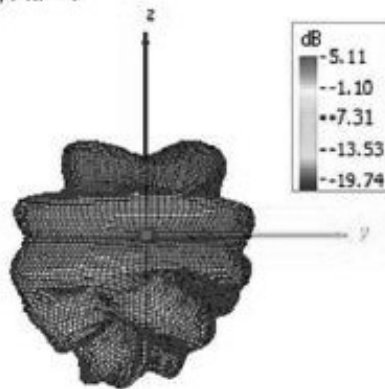
Theta = 0, Phi = 0



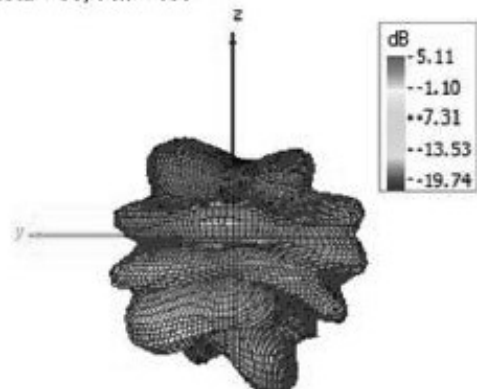
Theta = 180, Phi = 0



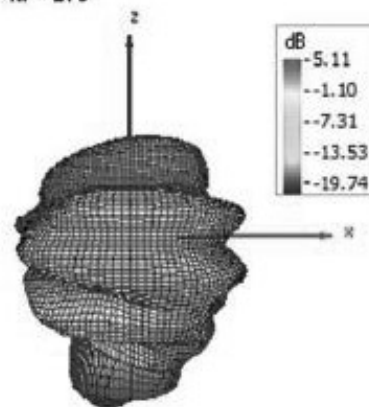
Theta = 90, Phi = 0



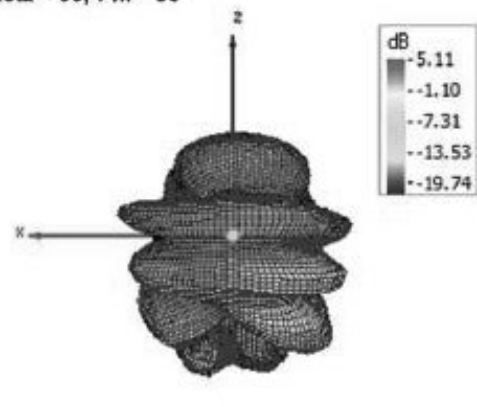
Theta = 90, Phi = 180



Theta = 90, Phi = 270

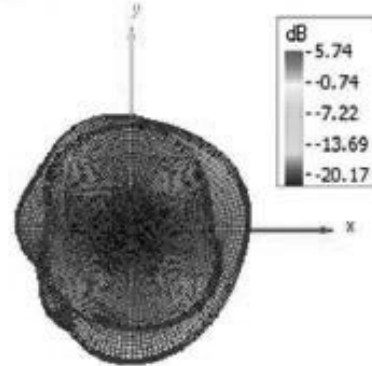


Theta = 90, Phi = 90

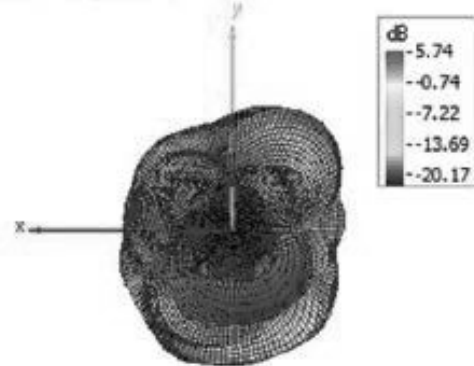


928MHz

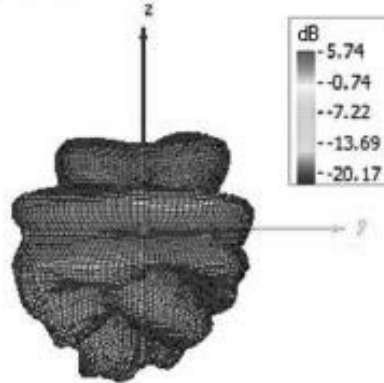
Theta = 0, Phi = 0



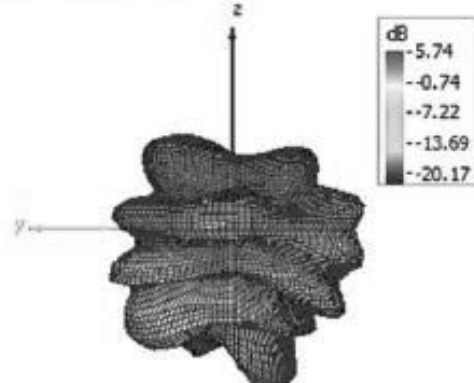
Theta = 180, Phi = 0



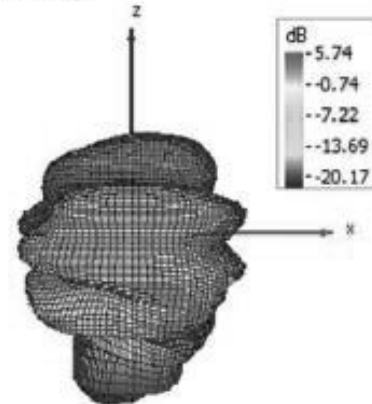
Theta = 90, Phi = 0



Theta = 90, Phi = 180



Theta = 90, Phi = 270



Theta = 90, Phi = 90

