3G/LTE Antenna

MODEL: TH-88J

1.. GENERAL DESCRIPTION

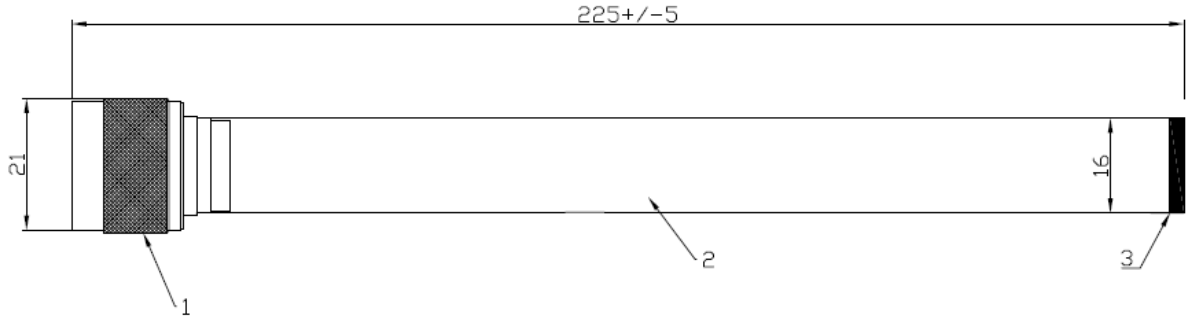
Model No
TH88J-N(M)

1.1 Electrical Properties

Parameter	Description
Frequency Band	698~960/1700~2700MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	4.0:1
Peak Gain	0~3dbi

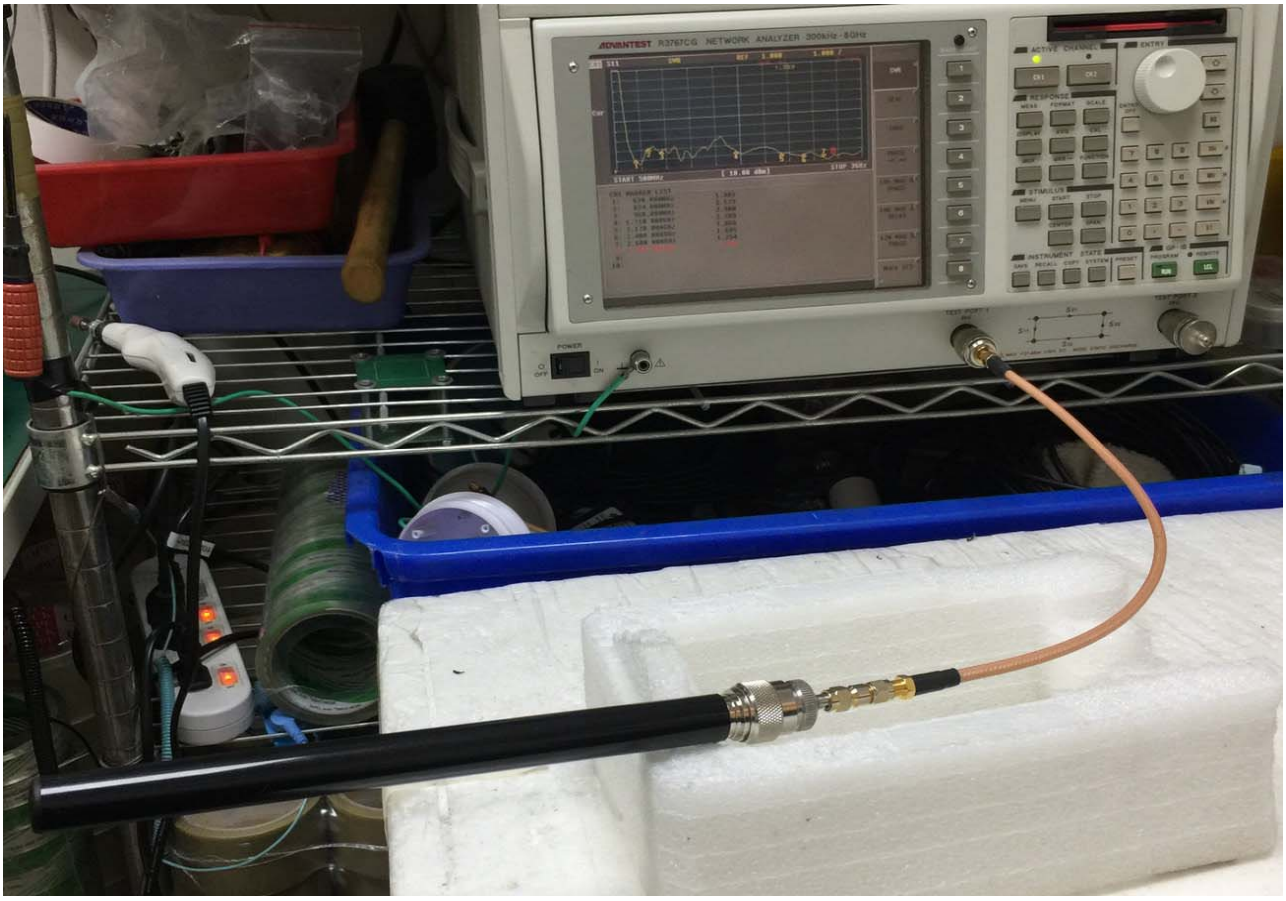
1.2 Mechanical Properties

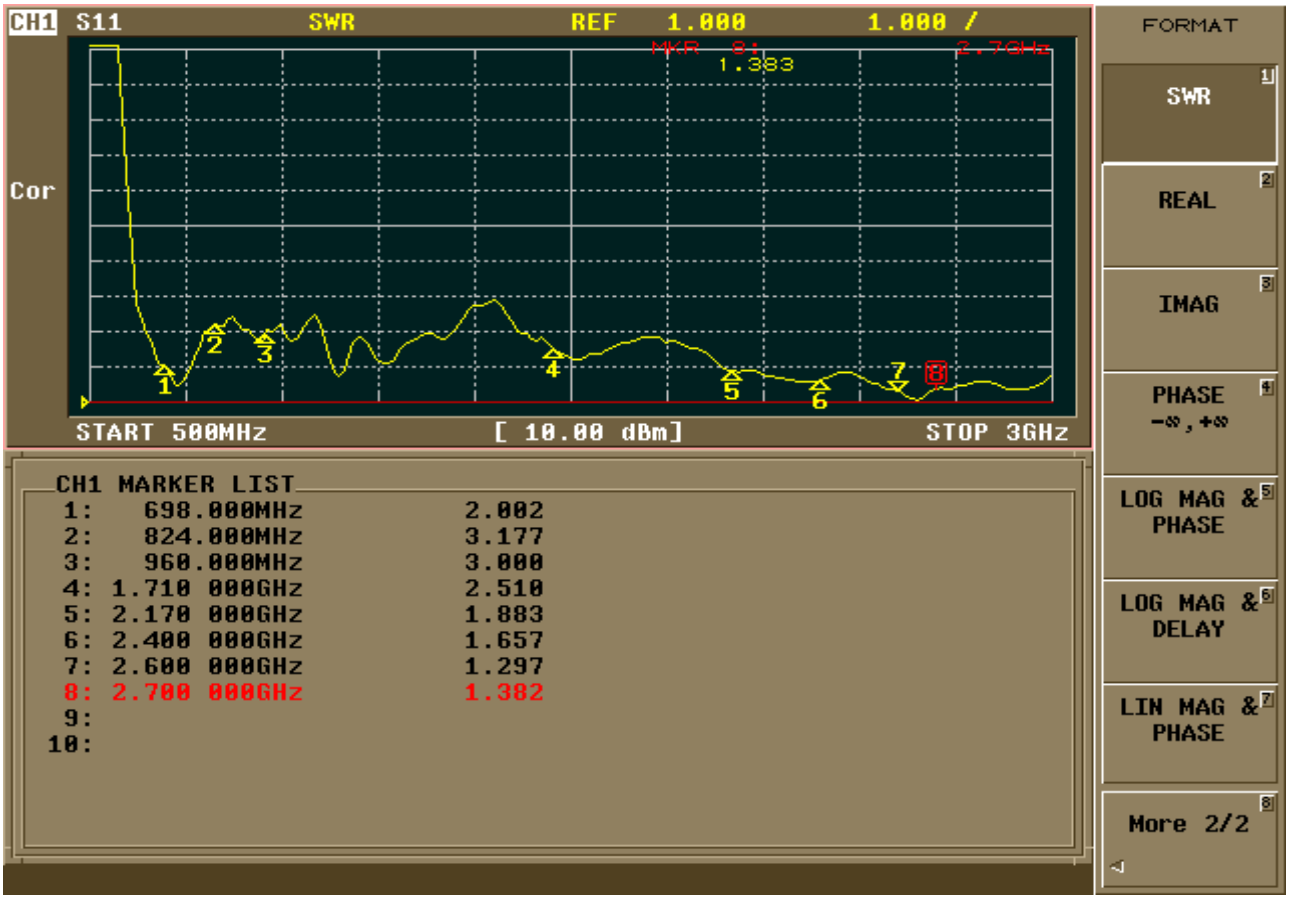
Parameter	Description
Antenna Type	External Antenna
Materal	ASA
Touch Type	Screw Type
Connector Type	N connector (Male)
Antenna Dimensions	225mm ±5
Antenna Color	Black
Operating Temperature Range	-30°C~+80°C
Storage Temperature Range	-30°C~+80°C

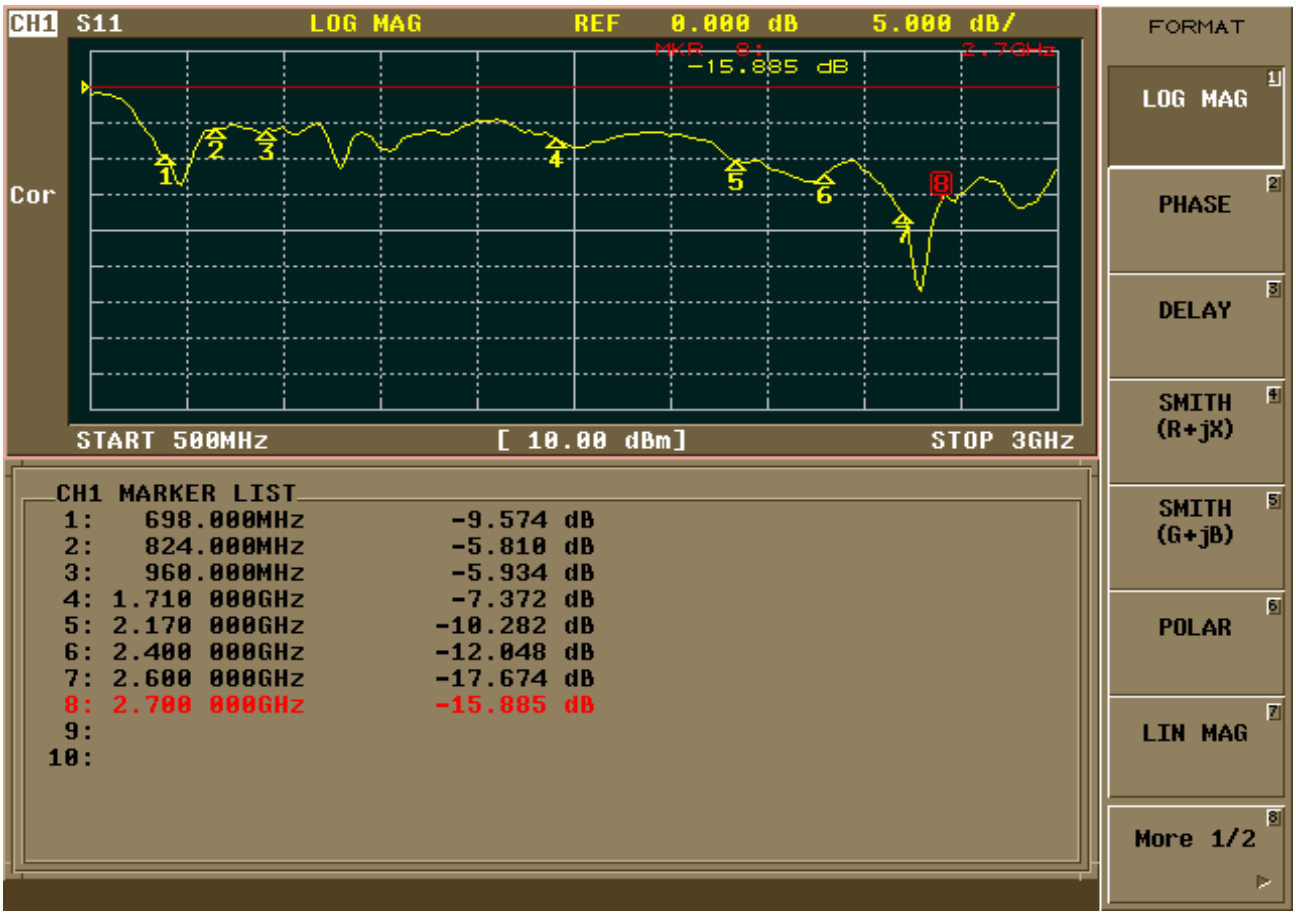


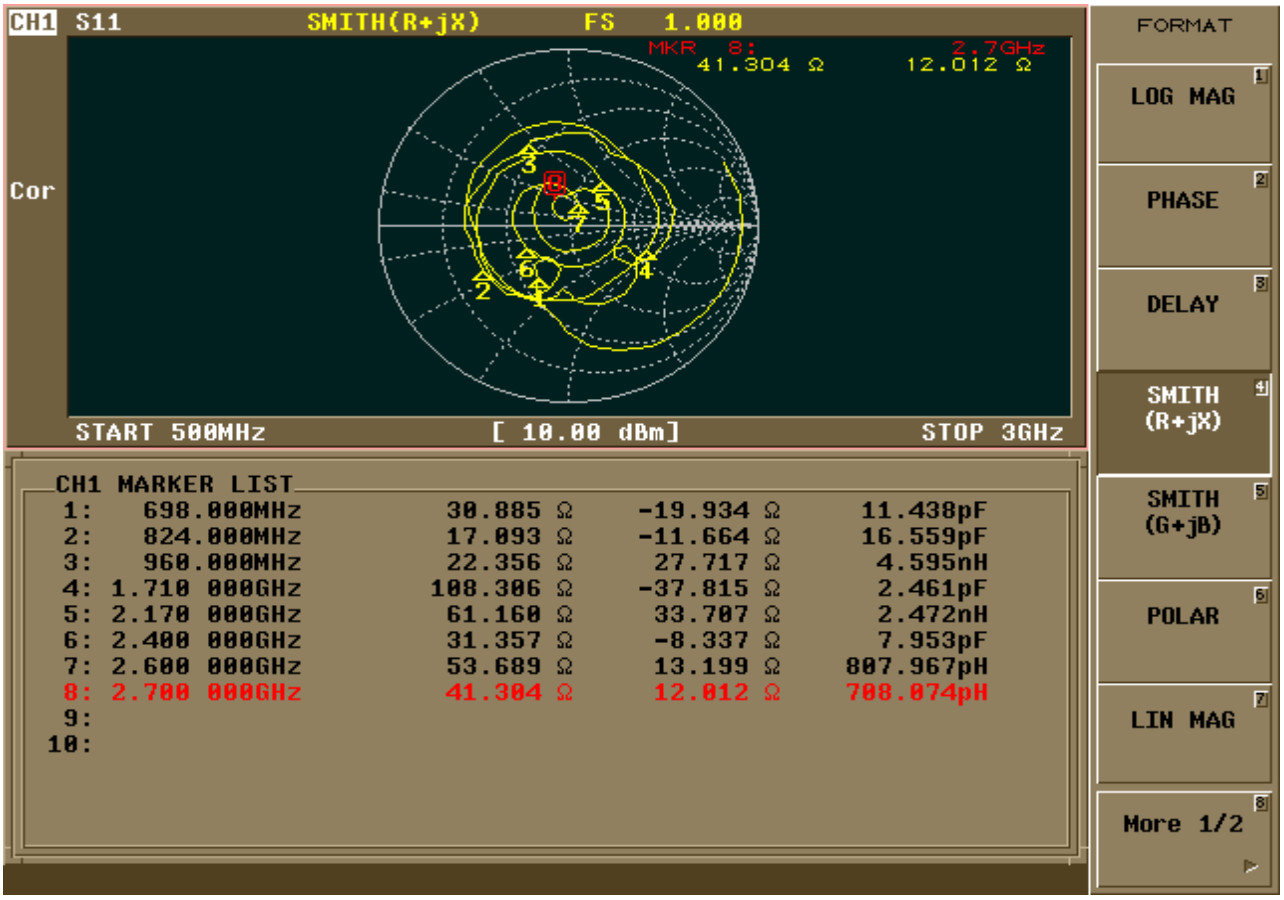
ITEM	DESCRIPTION	MAT'L	FINISH	ITEM No.
6				
5				
4				
3	ASA Black cap			
2	ASA Black tube			
1	N(M) Connector			

百 晨 科 技 有 限 公 司 BJTEK NAVIGATION INC		TEL : 886-2-86720160 FAX : 886-2-86720161	
TITLE : OMNI LTE Band Antenna		DWG NO. : TM-88J-N(M) 698-2700Mhz	
TOLERANCE : AS SPEC.	FINISH : SEE TABLE	DATE : 2019.03.07	UNIT : MM
MATERIAL : SEE TABLE	ISSUED : BILL	DRAWN : ALAN	CHECKED : LOUIS




CH1 S11 SWR REF 1.000 1.000 /
MKR 8: 2.7GHz
1.383
Cor
START 500MHz [10.00 dBm] STOP 3GHz
CH1 MARKER LIST
1: 698.000MHz 2.002
2: 824.000MHz 3.177
3: 960.000MHz 3.000
4: 1.710 000GHz 2.510
5: 2.170 000GHz 1.883
6: 2.400 000GHz 1.657
7: 2.600 000GHz 1.297
8: 2.700 000GHz 1.382
9:
10:
FORMAT
SWR
REAL
IMAG
PHASE -∞,+∞
LOG MAG & PHASE
LOG MAG & DELAY
LIN MAG & PHASE
More 2/2

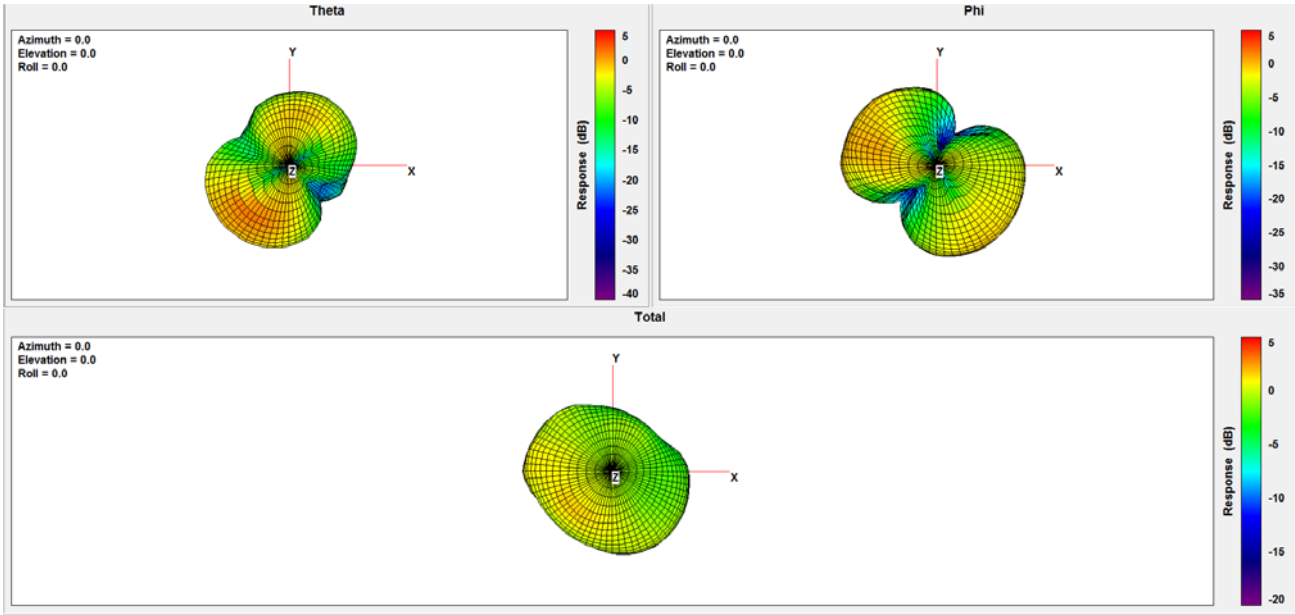

CH1 S11 LOG MAG REF 0.000 dB 5.000 dB/
MKR 8: 2.7GHz
-15.885 dB
Cor
START 500MHz [10.00 dBm] STOP 3GHz
CH1 MARKER LIST
1: 698.000MHz -9.574 dB
2: 824.000MHz -5.810 dB
3: 960.000MHz -5.934 dB
4: 1.710 000GHz -7.372 dB
5: 2.170 000GHz -10.282 dB
6: 2.400 000GHz -12.048 dB
7: 2.600 000GHz -17.674 dB
8: 2.700 000GHz -15.885 dB
9:
10:
FORMAT
LOG MAG
PHASE
DELAY
SMITH (R+jX)
SMITH (G+jB)
POLAR
LIN MAG
More 1/2



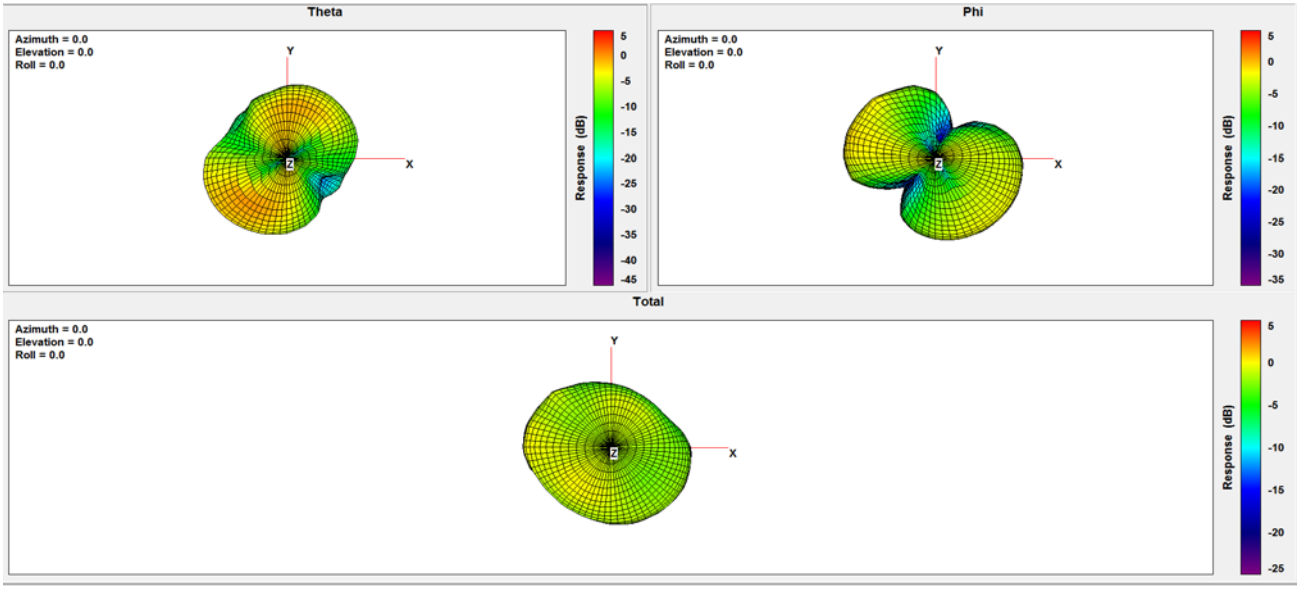
Frequency (MHz)	698	704	710	716	720	725	730	734	740	746	756	765	772
Peak Gain (dBi)	2.12	1.68	1.05	0.54	0.33	0.30	0.24	0.26	0.28	0.26	0.67	1.23	1.60
Efficiency (%)	70.31	65.21	60.76	57.69	56.16	54.48	53.54	53.45	54.45	54.78	55.14	55.24	55.50
Frequency (MHz)	**777**	**782**	**787**	**791**	**806**	**821**	**824**	**836**	**849**	**862**	**869**	**880**	**894**
Peak Gain (dBi)	1.74	1.88	1.95	2.04	3.37	3.48	3.43	3.20	3.00	2.91	3.01	3.01	2.95
Efficiency (%)	55.27	54.72	54.32	53.80	66.23	65.87	64.81	62.01	59.09	56.30	55.88	54.62	52.57
Frequency (MHz)	**900**	**915**	**925**	**940**	**960**	**1710**	**1730**	**1750**	**1770**	**1785**	**1805**	**1840**	**1850**
Peak Gain (dBi)	2.96	2.88	2.64	2.47	2.51	2.07	2.32	2.53	2.49	2.43	2.29	1.86	1.76

Efficiency (%)	52.45	50.93	48.77	48.21	48.87	56.18	61.63	65.50	66.19	65.03	62.76	57.28	56.13
Frequency (MHz)	**1880**	**1910**	**1920**	**1930**	**1950**	**1960**	**1980**	**1995**	**2110**	**2140**	**2170**	**2300**	**2325**
Peak Gain (dBi)	1.43	1.19	1.17	1.25	1.51	1.65	1.77	1.90	1.67	1.79	1.93	2.45	1.99
Efficiency (%)	53.92	54.40	54.60	56.19	60.53	62.35	65.72	67.83	57.32	53.51	53.32	61.78	53.47
Frequency (MHz)	**2350**	**2375**	**2400**	**2500**	**2515**	**2535**	**2555**	**2570**	**2595**	**2620**	**2630**	**2655**	**2680**
Peak Gain (dBi)	1.95	1.68	1.42	2.29	2.40	2.09	1.90	1.85	1.81	2.02	2.19	2.23	2.56
Efficiency (%)	53.08	50.67	49.73	51.09	51.55	49.53	48.43	47.43	47.13	46.64	46.84	45.84	46.34
Frequency (MHz)	**2690**												
Peak Gain (dBi)	2.58												
Efficiency (%)	46.54												

698Mhz:



756Mhz :



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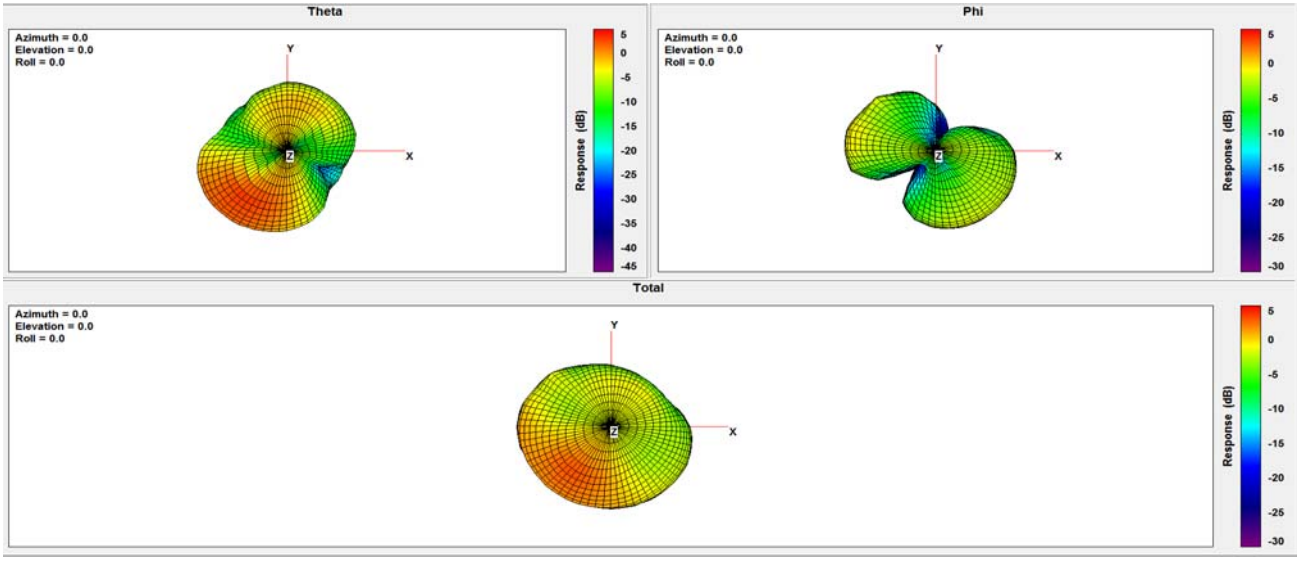
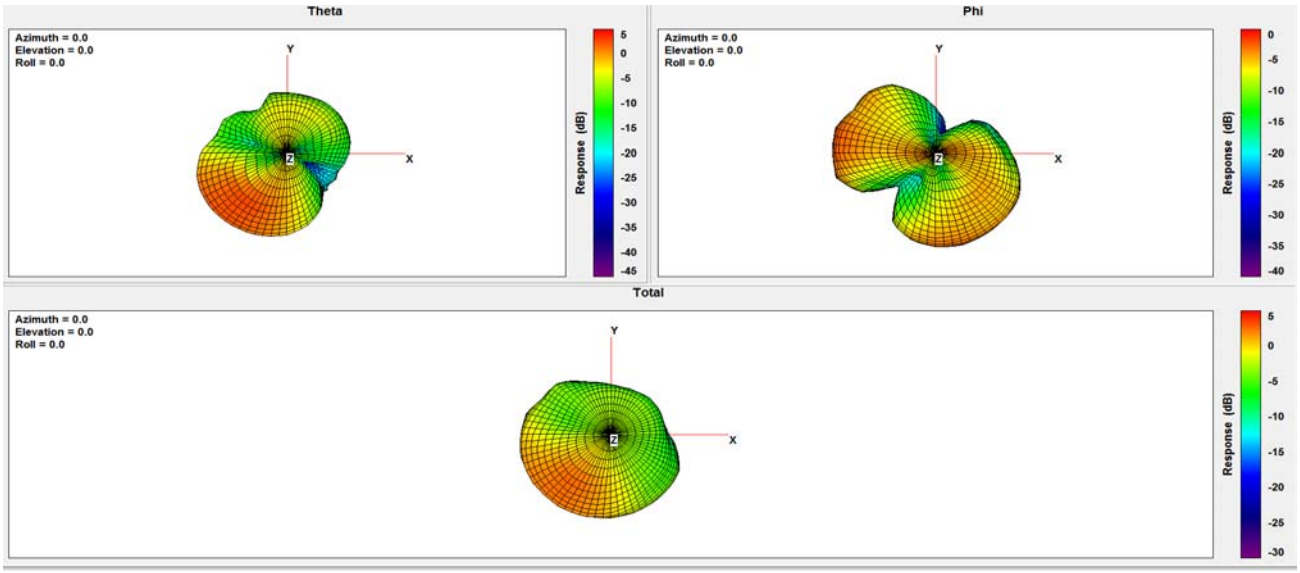
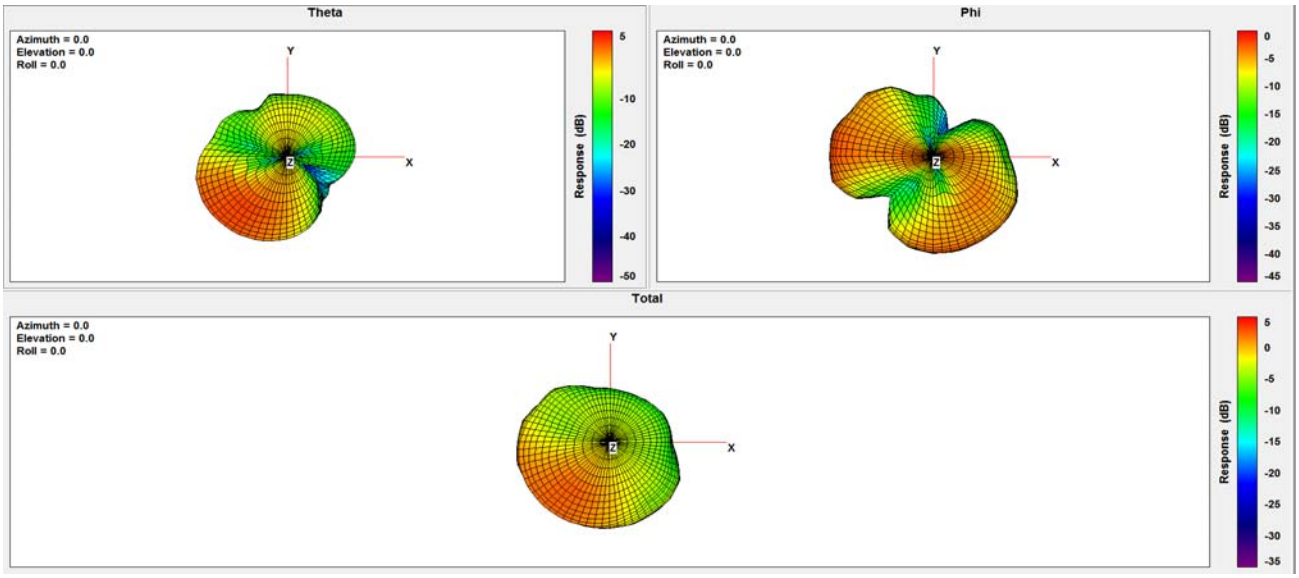


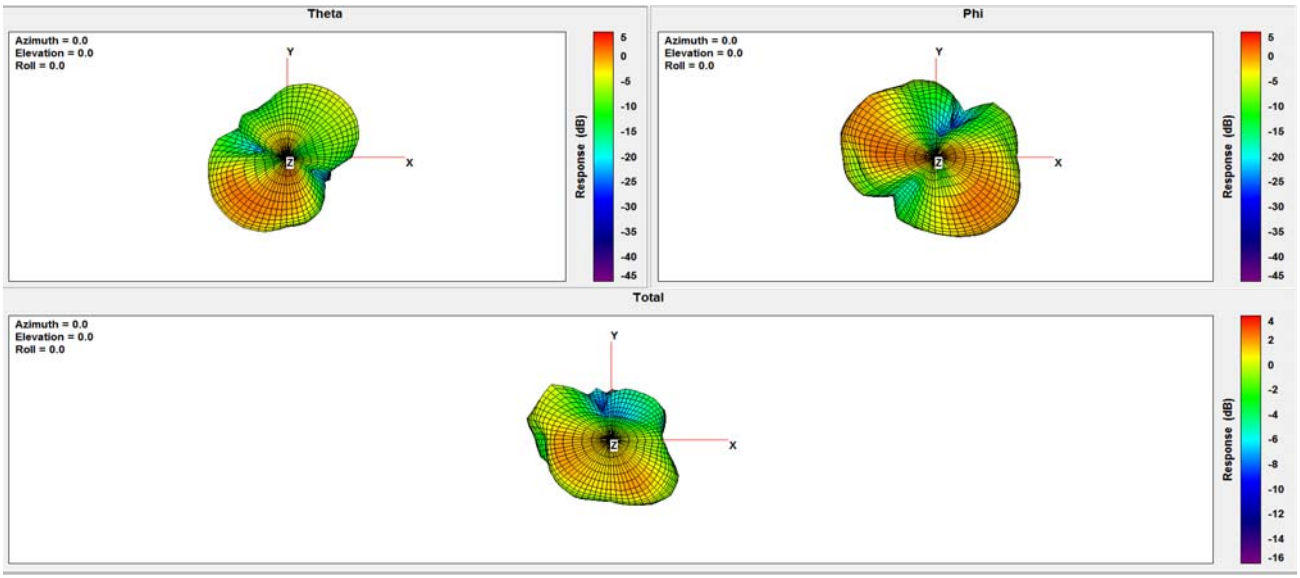
925Mhz:



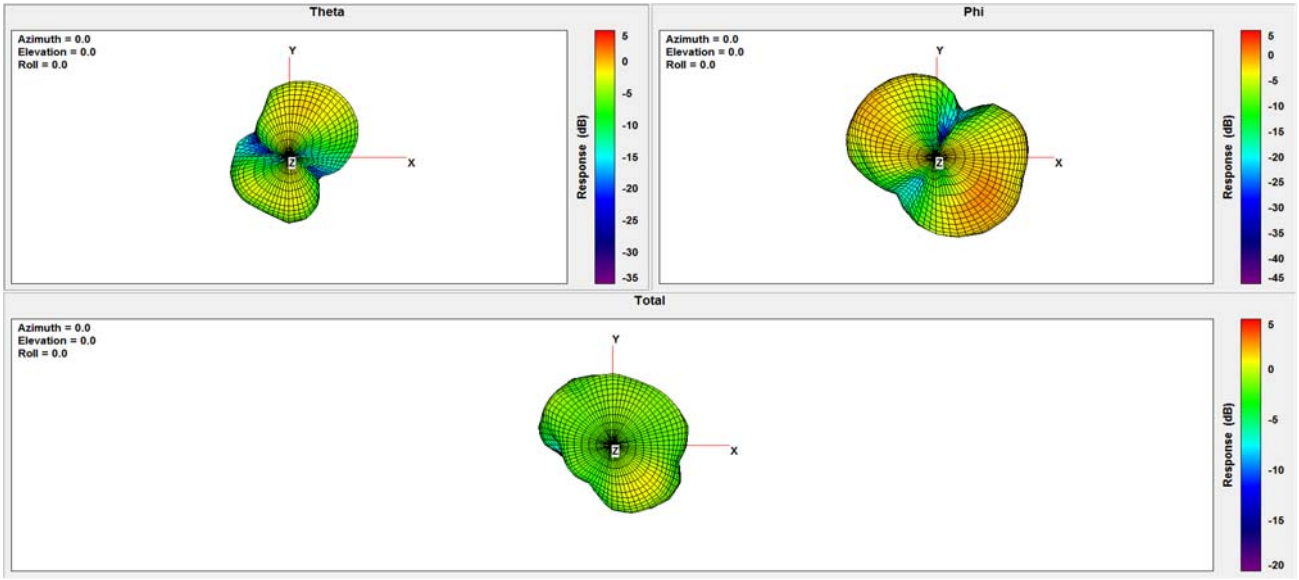
960Mhz:



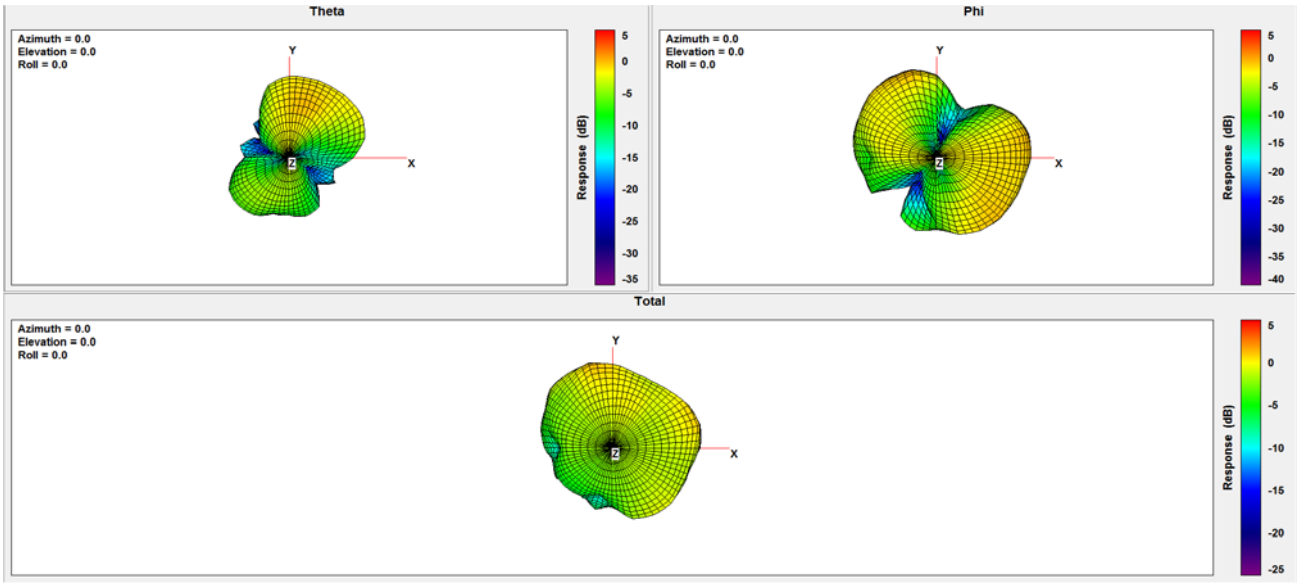
1710Mhz:



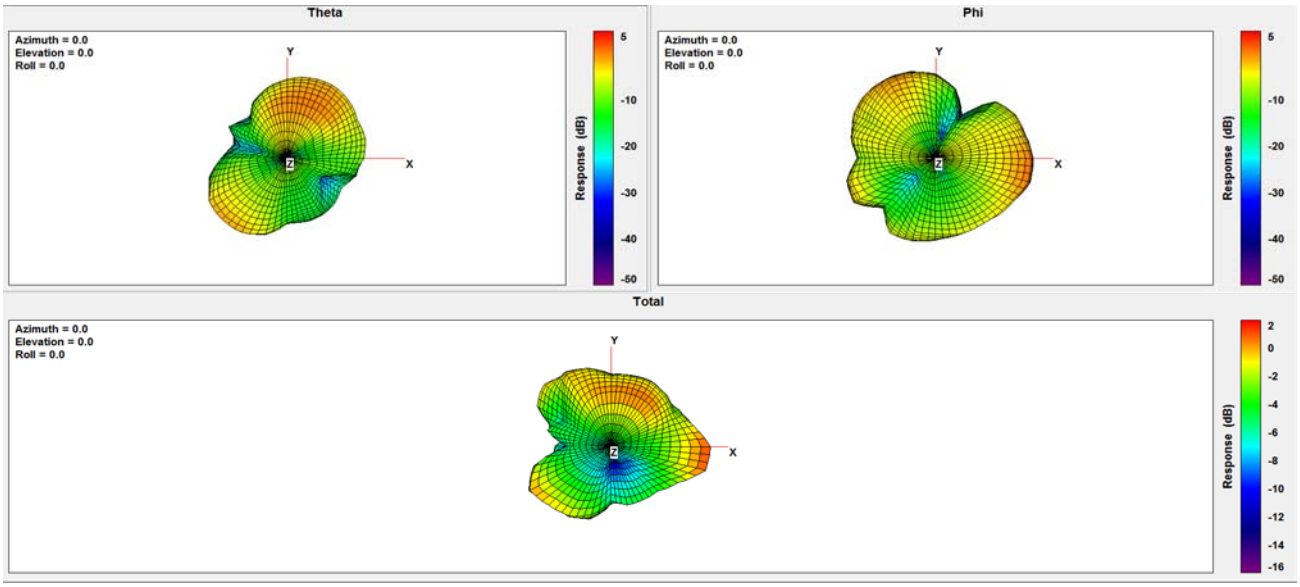
1910Mhz:



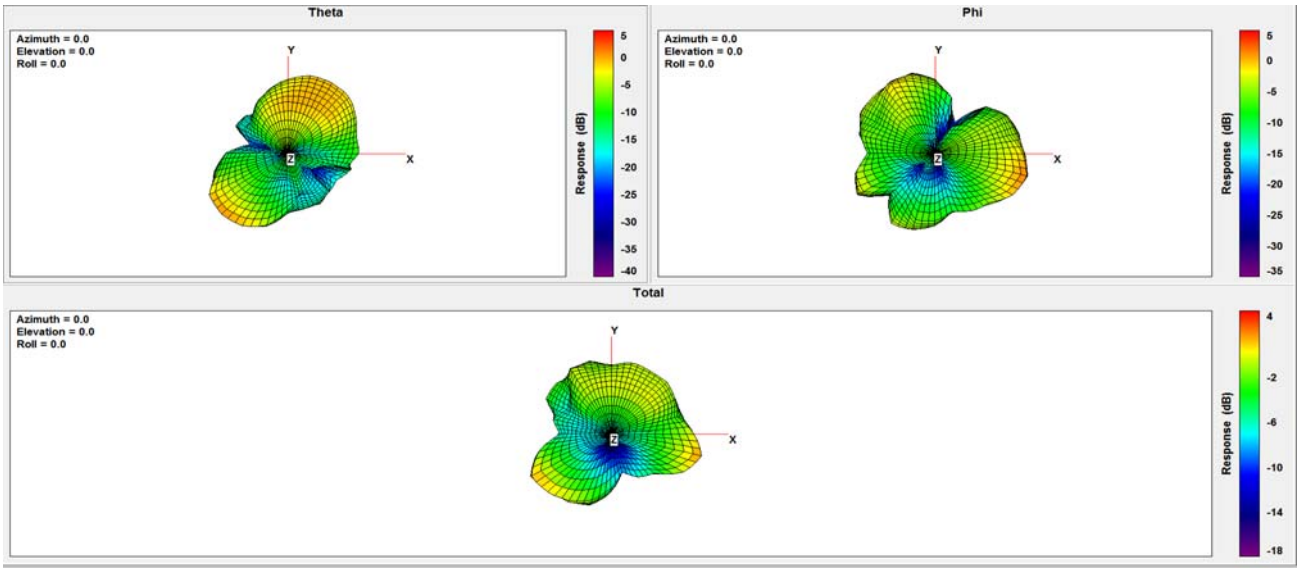
2110Mhz:



2400Mhz:



2500Mhz:



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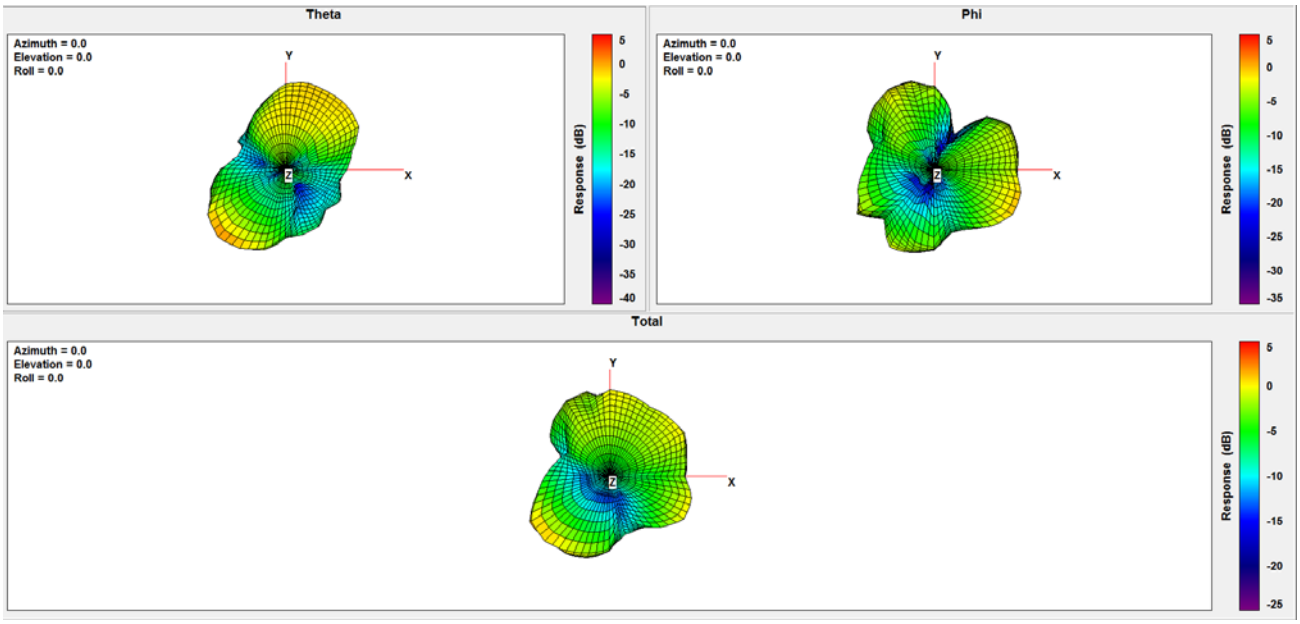
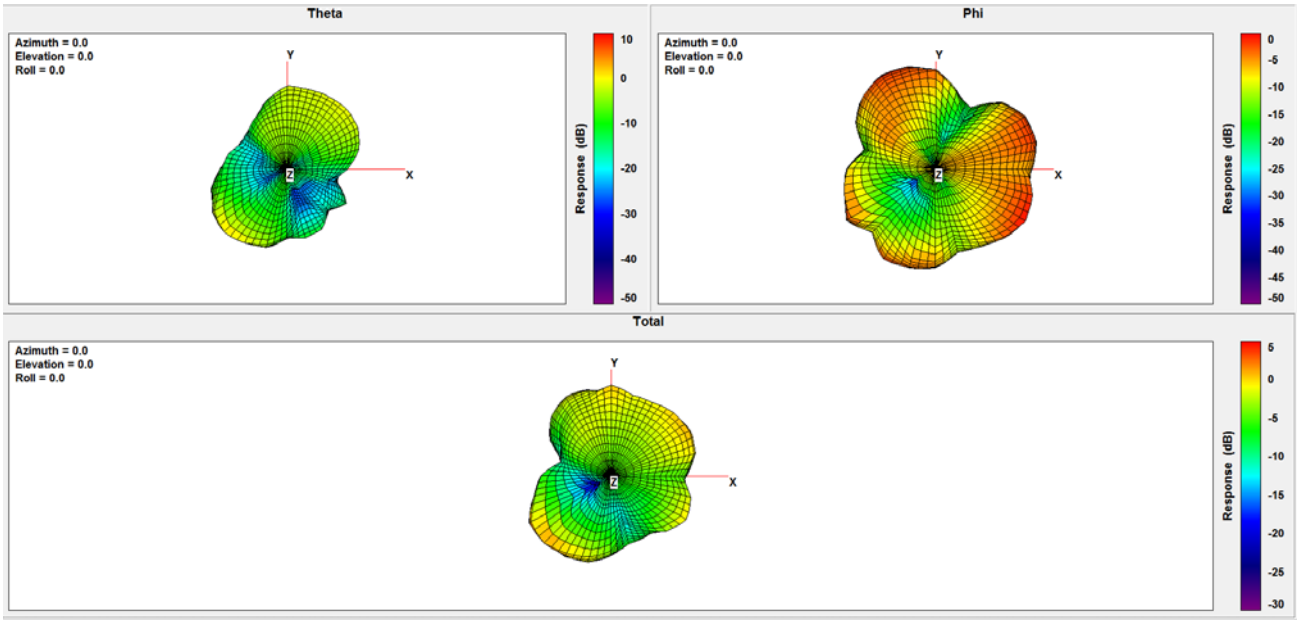
2690Mhz: