

WIFI 6E 2X2 MIMO 30x20 L00CM1 Antenna

FEATURES & BENEFITS



- Welding RG 1.13 cable, Ipex connector, 3M sticker for easy installation.
- Mounting to: non-conductive surface
- Installation type: adhesive

APPLICATIONS

- IoT Devices
- Smart Cities
- Smart Agriculture
- Consumer Tracking
- Smart Metering
- Smart Agriculture



ORDER INFORMATION

Product Name	WIFI 6E 2X2 MIMO 30x20 L00CM1 Antenna
Part Number	M01-0202090R0A
Dimensions	30 x 20 mm
Weight	0.8 g
Color	Black
Mounting	adhesive
Antenna Cable	Default IPEX 1 RF 1.13 black coaxial cable (Ø 1.13 x 100 mm) , customizable.

REFERENCE GUIDE

Technical Features (MHz)	ANT1	ANT2
	2400-2500/5100-7125	2400-2500/5100-7125
Max VSWR	2.0:1	2.2:1
Max Efficiency	88.25%	95.43%
Peak Gain	4.73dBi	4.82dBi
Radiation Pattern	Omnidirectional	
Polarization	Linear	
Input Impedance	50 Ω	
Operating Temperature	-40°C to +85°C	
Storage Temperature	-40°C to +85°C	
Relative Humidity	10 to 70%	
Material Substance Compliance	RoHS Compliant	
Dimensions(L x W x H)	30x20mm	
All test data were obtained from testing conducted on 1.4mm thick polycarbonate (PC) plastic material; with an 100-mm-long RF 1.13 cable.Application data might vary.		

MyAntenna RF Technology Co., Ltd

ADD:No.RM 410, Country Garden Phoenix Wisdom Valley, No. 50 Tiezai Road, Baoan District, Shenzhen, P.R.China.

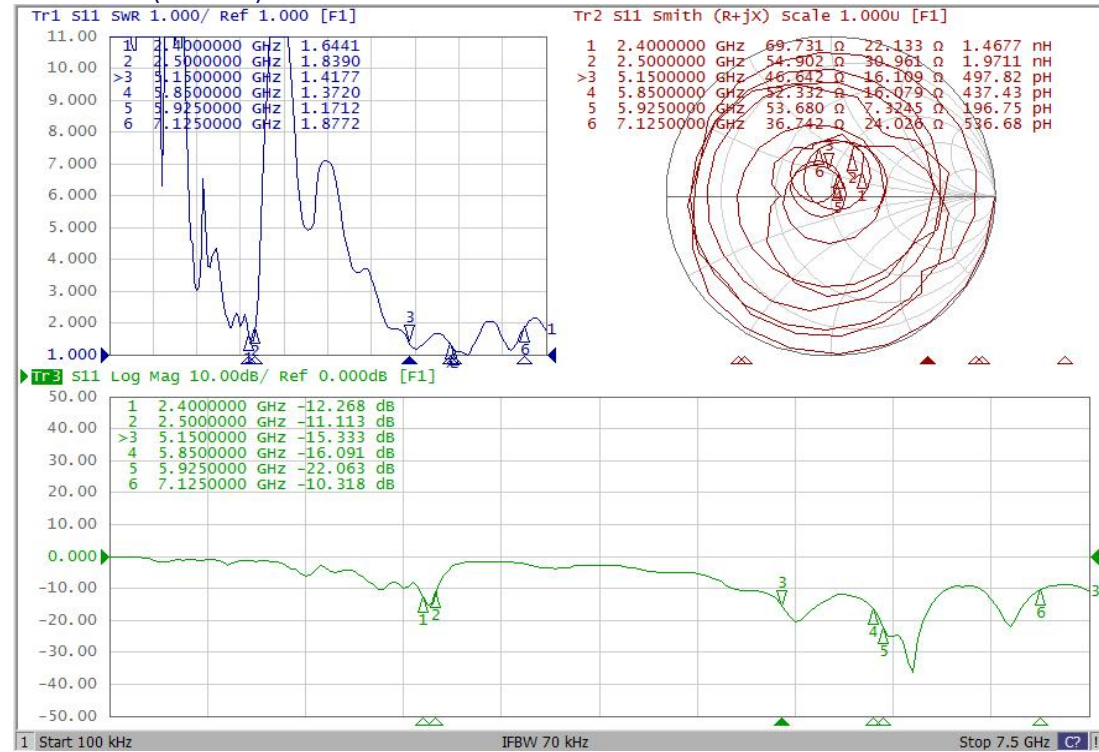
TEL: +86-0755-86503881 FAX: +86-0755-27801677 E-mail: nfc@myantenna.com

ELECTRICAL PERFORMANCE

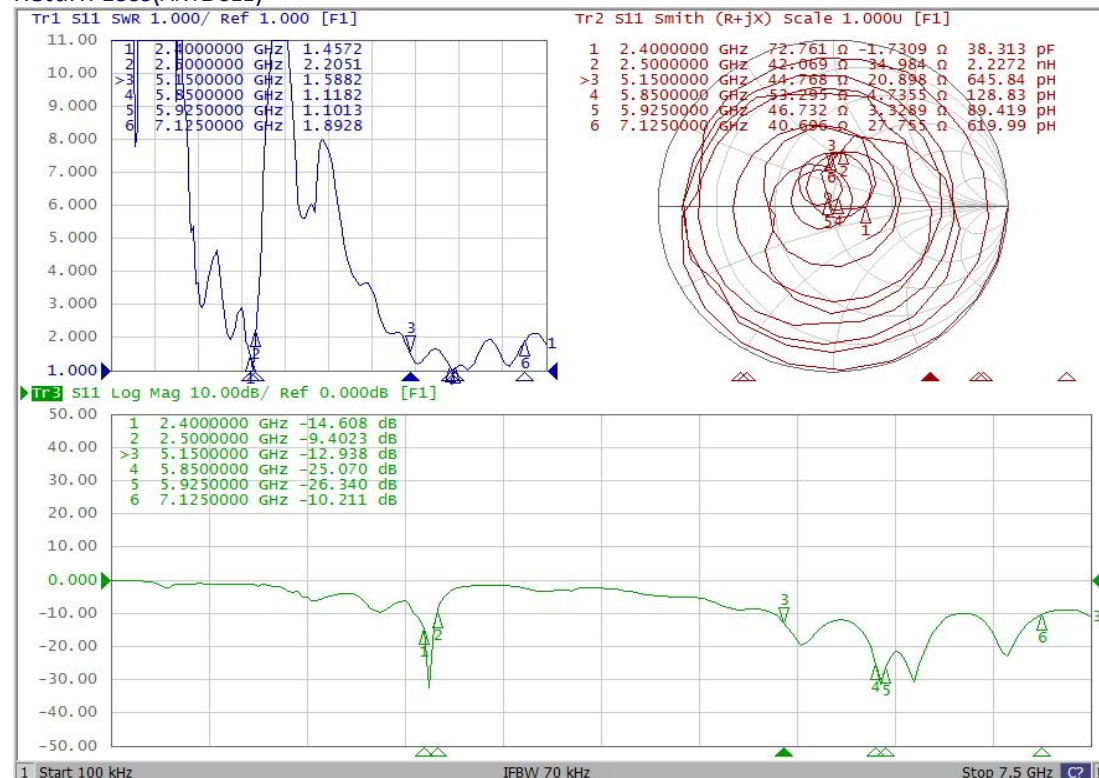
Note

All data displayed in the "ELECTRICAL PERFORMANCE" section were measured using a 100mm-long RF 1.13 cable mounted on 1.4mm thick polycarbonate (PC) plastic material.

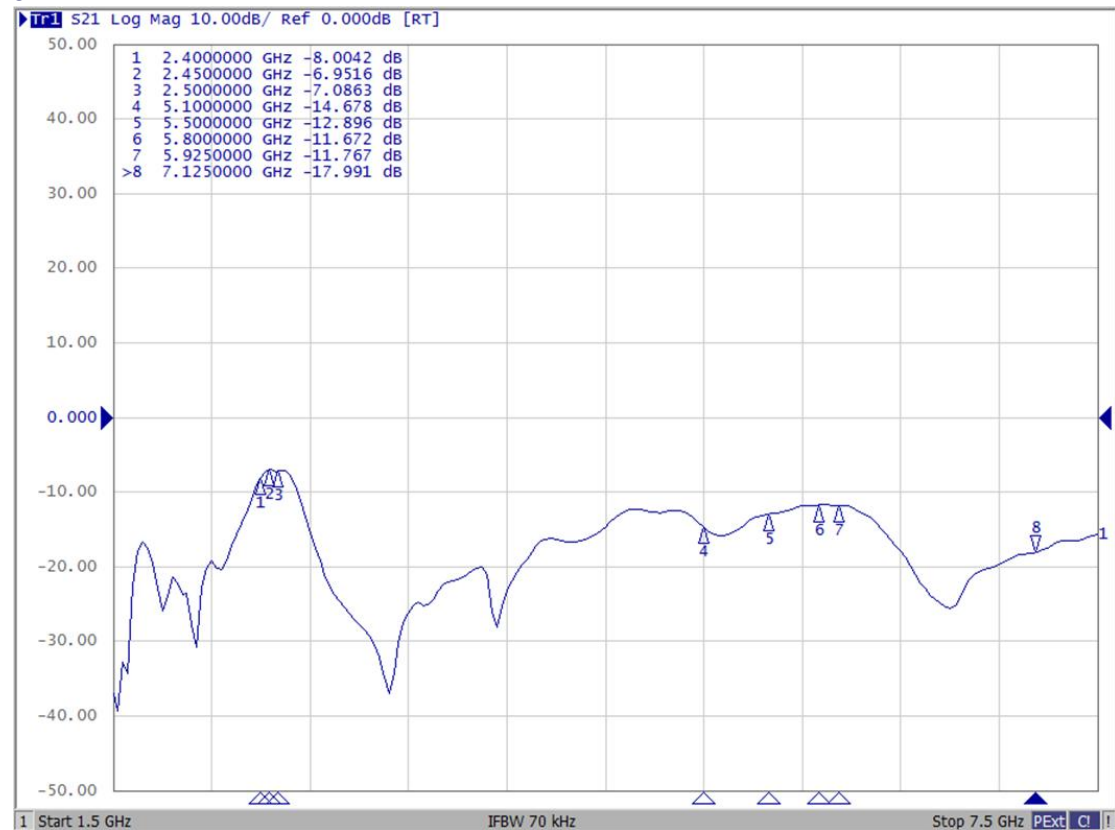
Return Loss(ANT1 S11)



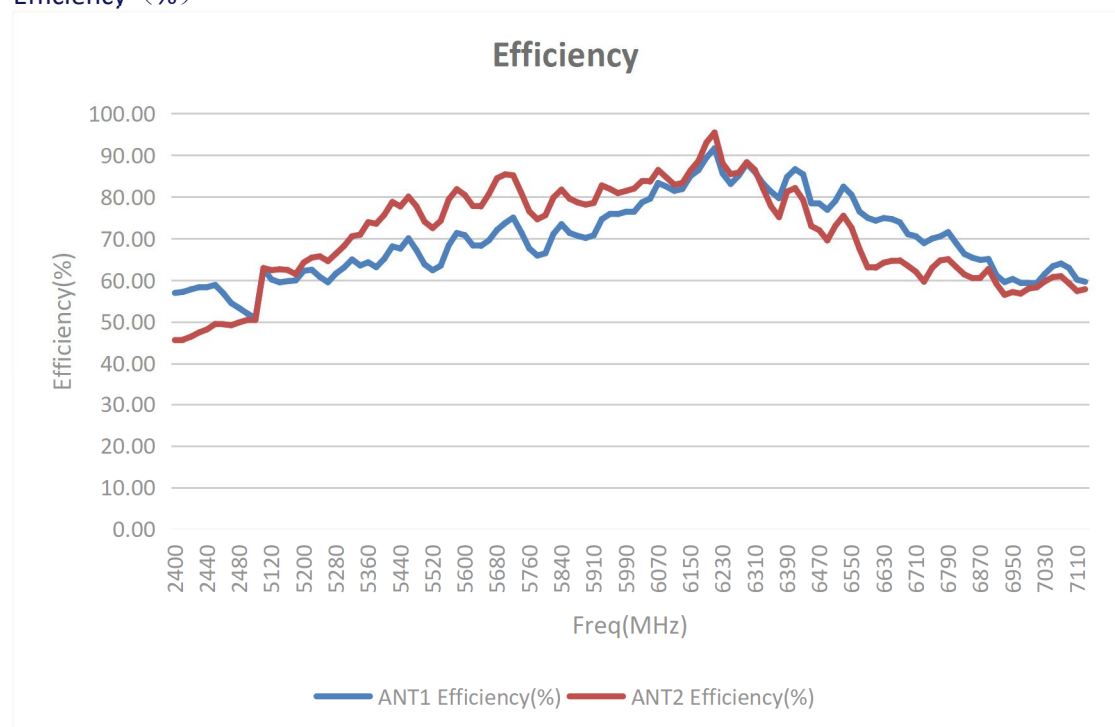
Return Loss(ANT2 S11)



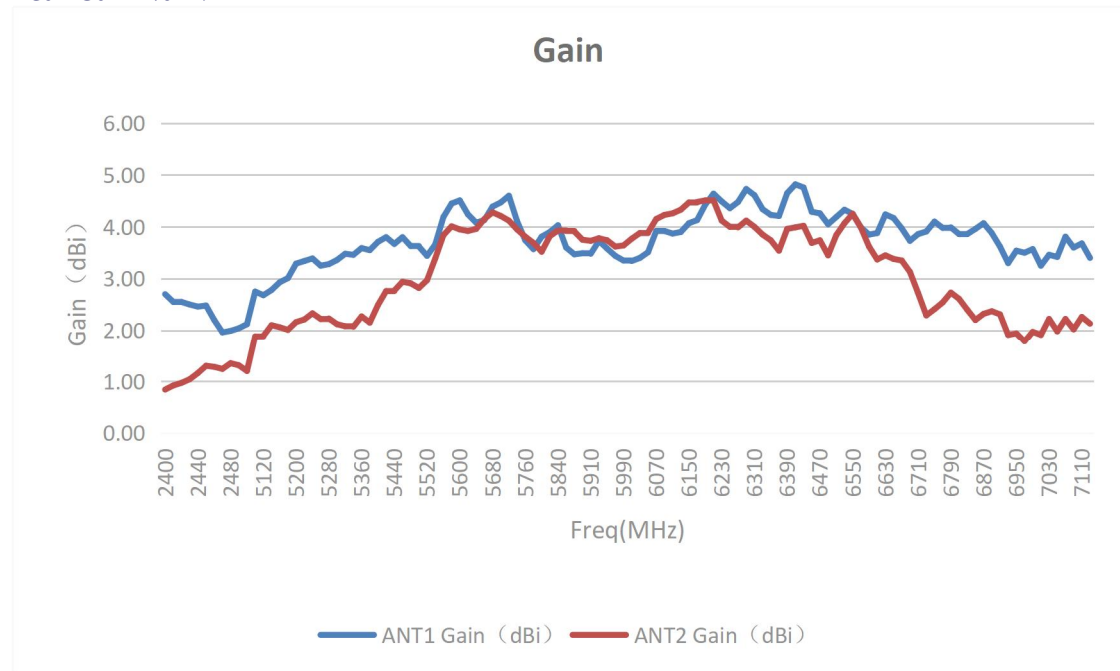
S21



Efficiency (%)



Peak Gain (dBi)



ANT1 Data

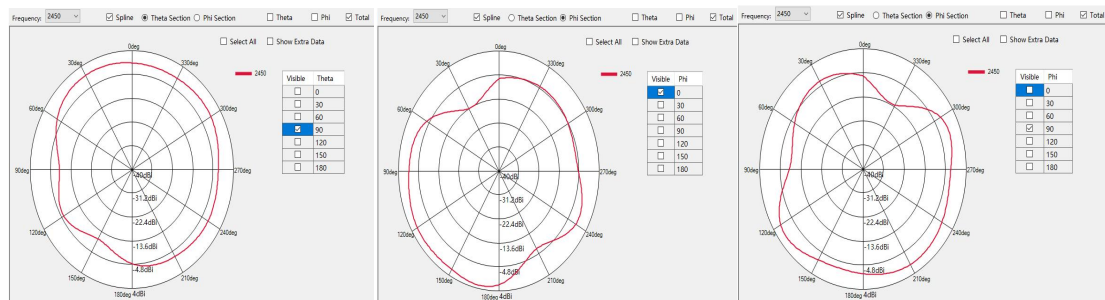
Freq(MHz)	Gain (dBi)	Efficiency(%)	Freq(MHz)	Gain (dBi)	Efficiency(%)	Freq(MHz)	Gain (dBi)	Efficiency(%)
2400	2.70	56.96	5640	4.08	68.24	6390	4.65	84.79
2410	2.55	57.20	5660	4.13	69.59	6410	4.82	86.64
2420	2.55	57.81	5680	4.39	72.10	6430	4.76	85.40
2430	2.50	58.32	5700	4.47	73.73	6450	4.29	78.44
2440	2.46	58.35	5720	4.60	75.03	6470	4.26	78.41
2450	2.48	58.87	5740	4.11	71.51	6490	4.05	76.90
2460	2.20	56.91	5760	3.74	67.63	6510	4.19	79.04
2470	1.96	54.52	5780	3.57	65.92	6530	4.33	82.45
2480	1.99	53.30	5800	3.81	66.47	6550	4.25	80.52
2490	2.04	52.01	5820	3.90	71.13	6570	3.99	76.46
2500	2.12	50.96	5840	4.03	73.45	6590	3.85	74.97
5100	2.75	62.67	5860	3.60	71.35	6610	3.88	74.29
5120	2.68	60.20	5880	3.47	70.65	6630	4.24	74.92
5140	2.78	59.50	5900	3.49	70.16	6650	4.17	74.68
5160	2.93	59.78	5910	3.48	70.77	6670	3.97	73.91
5180	3.01	59.96	5930	3.73	74.64	6690	3.73	71.05
5200	3.29	62.27	5950	3.58	75.91	6710	3.86	70.54
5220	3.34	62.52	5970	3.44	75.87	6730	3.91	68.91
5240	3.39	60.81	5990	3.35	76.43	6750	4.10	69.99
5260	3.25	59.53	6010	3.34	76.42	6770	3.98	70.52
5280	3.28	61.62	6030	3.40	78.70	6790	3.99	71.54
5300	3.36	63.05	6050	3.51	79.56	6810	3.86	68.88
5320	3.48	65.00	6070	3.92	83.33	6830	3.86	66.34
5340	3.46	63.55	6090	3.92	82.49	6850	3.96	65.41
5360	3.59	64.30	6110	3.87	81.45	6870	4.07	64.88
5380	3.55	63.14	6130	3.90	81.89	6890	3.88	65.09
5400	3.71	65.16	6150	4.07	84.97	6910	3.62	61.18
5420	3.80	68.12	6170	4.13	86.43	6930	3.30	59.56
5440	3.67	67.60	6190	4.43	89.44	6950	3.54	60.30
5460	3.80	70.06	6210	4.64	91.65	6970	3.50	59.36
5480	3.63	67.19	6230	4.49	85.61	6990	3.57	59.27
5500	3.62	63.81	6250	4.36	83.11	7010	3.25	59.30
5520	3.44	62.40	6270	4.48	85.11	7030	3.46	61.54
5540	3.66	63.49	6290	4.73	87.96	7050	3.42	63.38
5560	4.19	68.40	6310	4.61	85.97	7070	3.81	64.01
5580	4.45	71.34	6330	4.34	83.26	7090	3.60	62.95
5600	4.51	70.81	6350	4.23	81.27	7110	3.68	60.14
5620	4.24	68.35	6370	4.21	79.68	7125	3.40	59.64

ANT2 Data

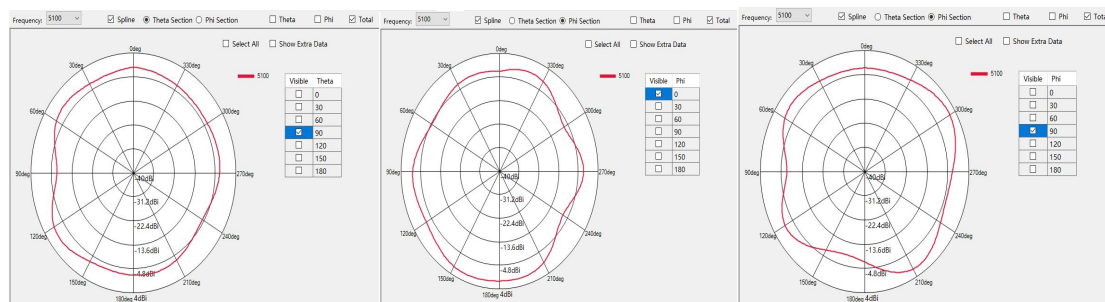
Freq(MHz)	Gain (dBi)	Efficiency(%)	Freq(MHz)	Gain (dBi)	Efficiency(%)	Freq(MHz)	Gain (dBi)	Efficiency(%)
2400	0.84	45.64	5640	3.96	77.71	6390	3.96	81.26
2410	0.92	45.74	5660	4.15	80.73	6410	3.99	82.11
2420	0.97	46.46	5680	4.28	84.48	6430	4.02	79.22
2430	1.04	47.47	5700	4.21	85.40	6450	3.69	73.01
2440	1.16	48.21	5720	4.12	85.18	6470	3.74	72.00
2450	1.30	49.50	5740	3.95	80.98	6490	3.45	69.57
2460	1.28	49.42	5760	3.81	76.53	6510	3.84	73.07
2470	1.24	49.21	5780	3.69	74.63	6530	4.07	75.47
2480	1.35	49.90	5800	3.52	75.60	6550	4.25	72.62
2490	1.31	50.47	5820	3.82	79.86	6570	3.99	67.50
2500	1.20	50.47	5840	3.93	81.74	6590	3.62	63.11
5100	1.88	62.92	5860	3.92	79.57	6610	3.37	63.01
5120	1.89	62.42	5880	3.91	78.67	6630	3.45	64.21
5140	2.10	62.63	5900	3.75	78.14	6650	3.38	64.66
5160	2.06	62.47	5910	3.73	78.55	6670	3.35	64.79
5180	2.01	61.45	5930	3.78	82.75	6690	3.13	63.45
5200	2.16	64.27	5950	3.74	81.92	6710	2.72	62.03
5220	2.21	65.44	5970	3.62	80.90	6730	2.29	59.66
5240	2.33	65.74	5990	3.64	81.44	6750	2.41	62.97
5260	2.22	64.59	6010	3.77	81.98	6770	2.54	64.75
5280	2.23	66.38	6030	3.88	83.80	6790	2.73	65.06
5300	2.12	68.22	6050	3.89	83.66	6810	2.61	63.18
5320	2.08	70.56	6070	4.15	86.46	6830	2.40	61.40
5340	2.07	70.93	6090	4.23	84.69	6850	2.20	60.53
5360	2.27	73.93	6110	4.26	82.94	6870	2.32	60.66
5380	2.15	73.57	6130	4.33	83.32	6890	2.37	62.67
5400	2.49	75.70	6150	4.47	86.32	6910	2.31	59.10
5420	2.76	78.78	6170	4.48	88.61	6930	1.91	56.50
5440	2.77	77.70	6190	4.51	93.07	6950	1.94	57.16
5460	2.94	80.05	6210	4.51	95.43	6970	1.78	56.80
5480	2.91	77.73	6230	4.12	88.05	6990	1.97	58.02
5500	2.82	74.05	6250	4.00	85.46	7010	1.91	58.30
5520	2.97	72.52	6270	3.99	85.82	7030	2.22	59.73
5540	3.39	74.25	6290	4.12	88.32	7050	1.98	60.77
5560	3.84	79.40	6310	4.00	86.49	7070	2.22	60.97
5580	4.01	81.84	6330	3.85	82.07	7090	2.02	59.27
5600	3.95	80.46	6350	3.74	77.79	7110	2.26	57.41
5620	3.92	77.81	6370	3.54	75.14	7125	2.13	57.85

RADIATION PATTERNS(The data were obtained through testing conducted using a 100-mm-long RF 1.13 cable mounted on a 1.4mm thick polycarbonate (PC) plastic substrate.)

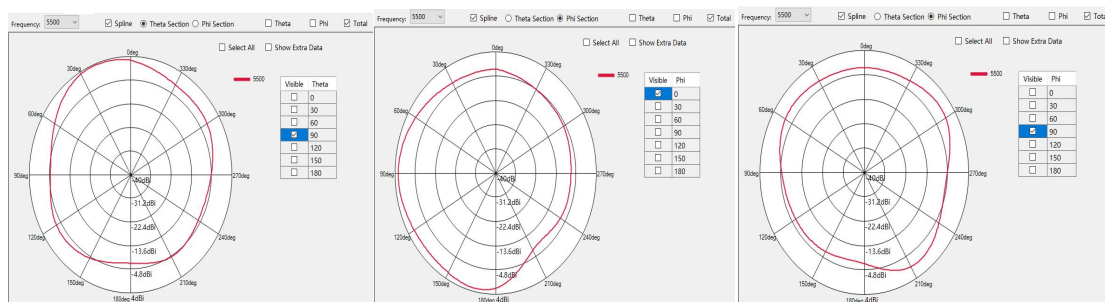
2D Radiation Pattern at 2450MHz Gain = 2.48 dBi(ANT 1)



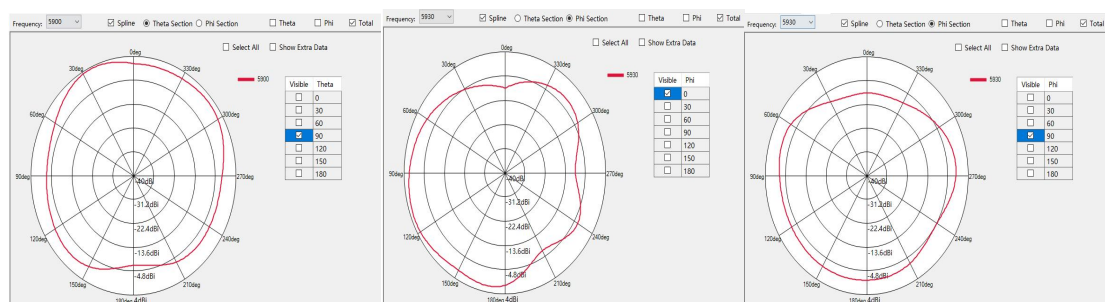
2D Radiation Pattern at 5100MHz Gain = 2.75 dBi(ANT 1)



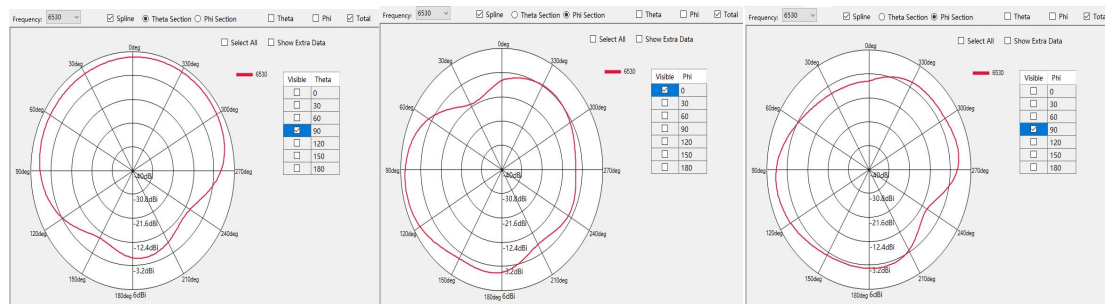
2D Radiation Pattern at 5500MHz Gain = 3.62 dBi(ANT 1)



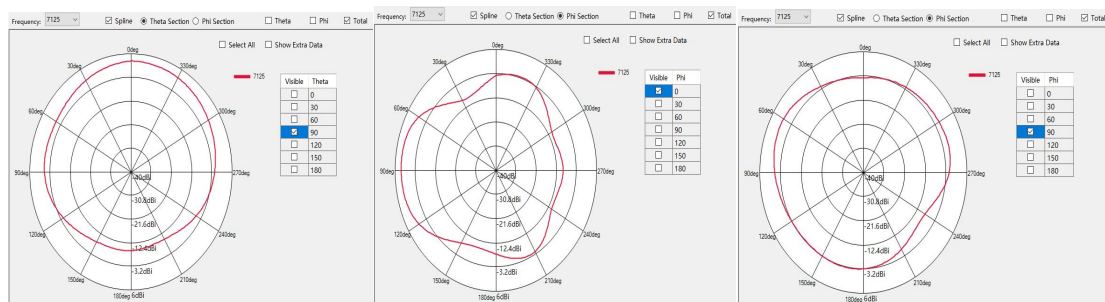
2D Radiation Pattern at 5900MHz Gain = 3.49dBi(ANT 1)



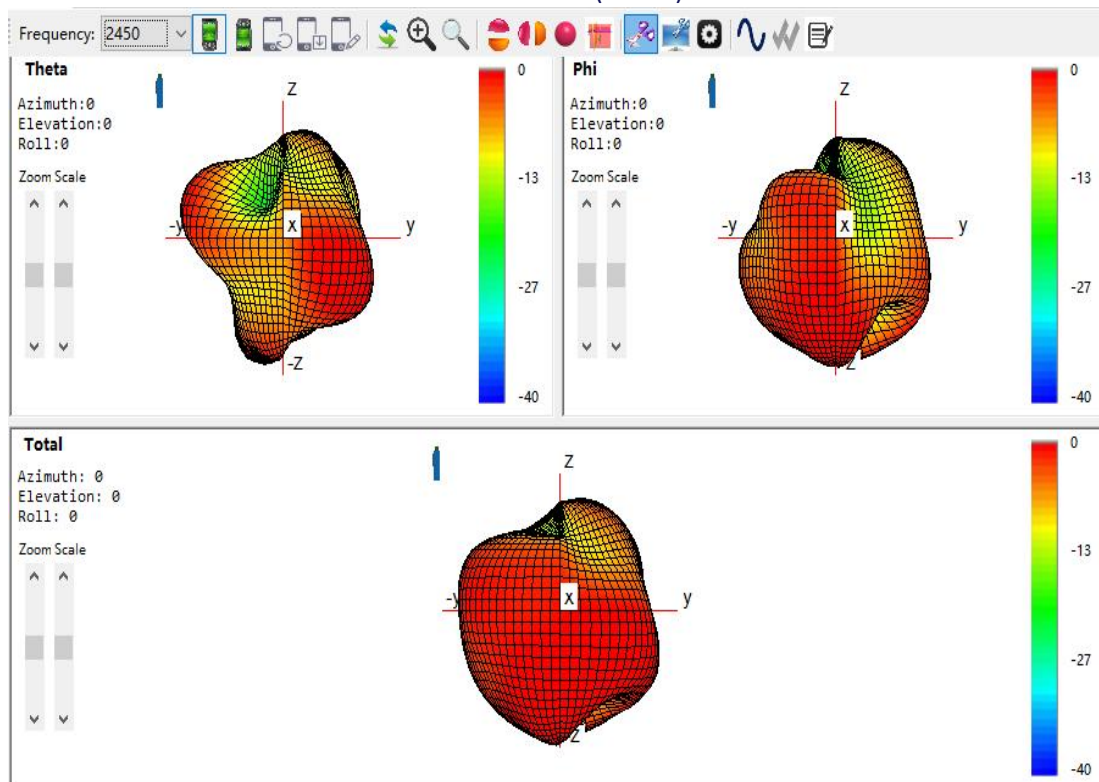
2D Radiation Pattern at 6530MHz Gain = 4.33dBi(ANT 1)



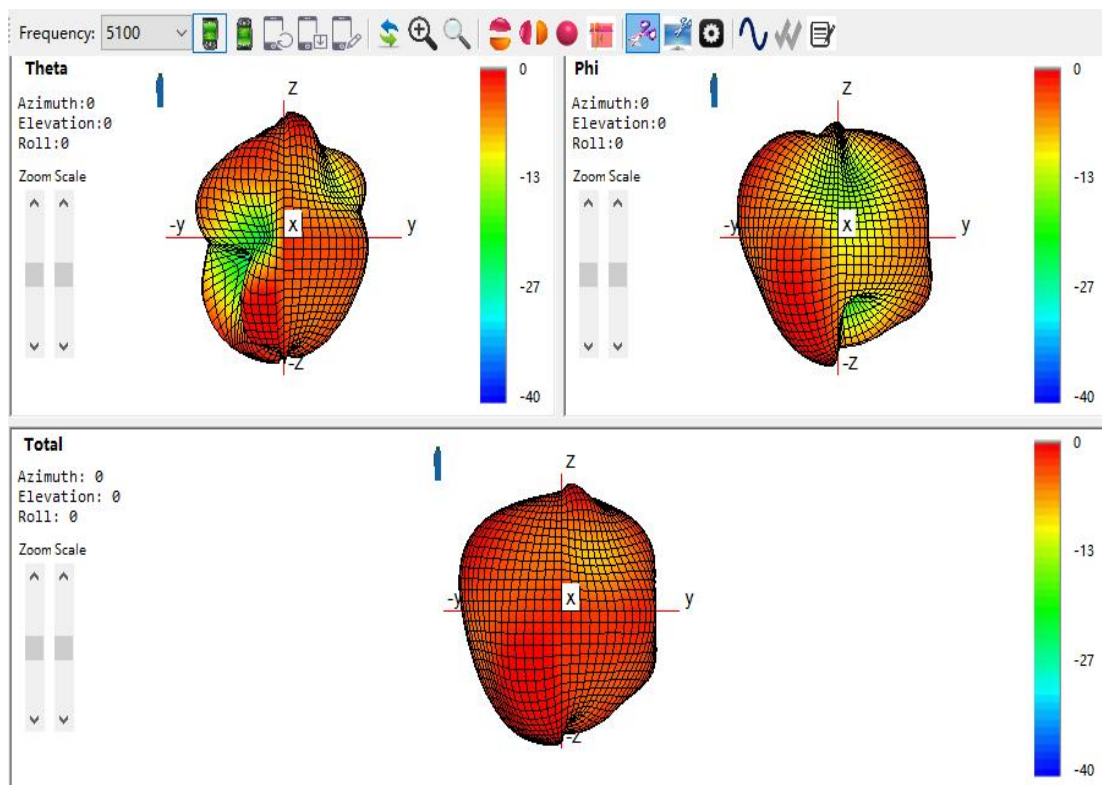
2D Radiation Pattern at 7125MHz Gain = 3.4dBi(ANT 1)



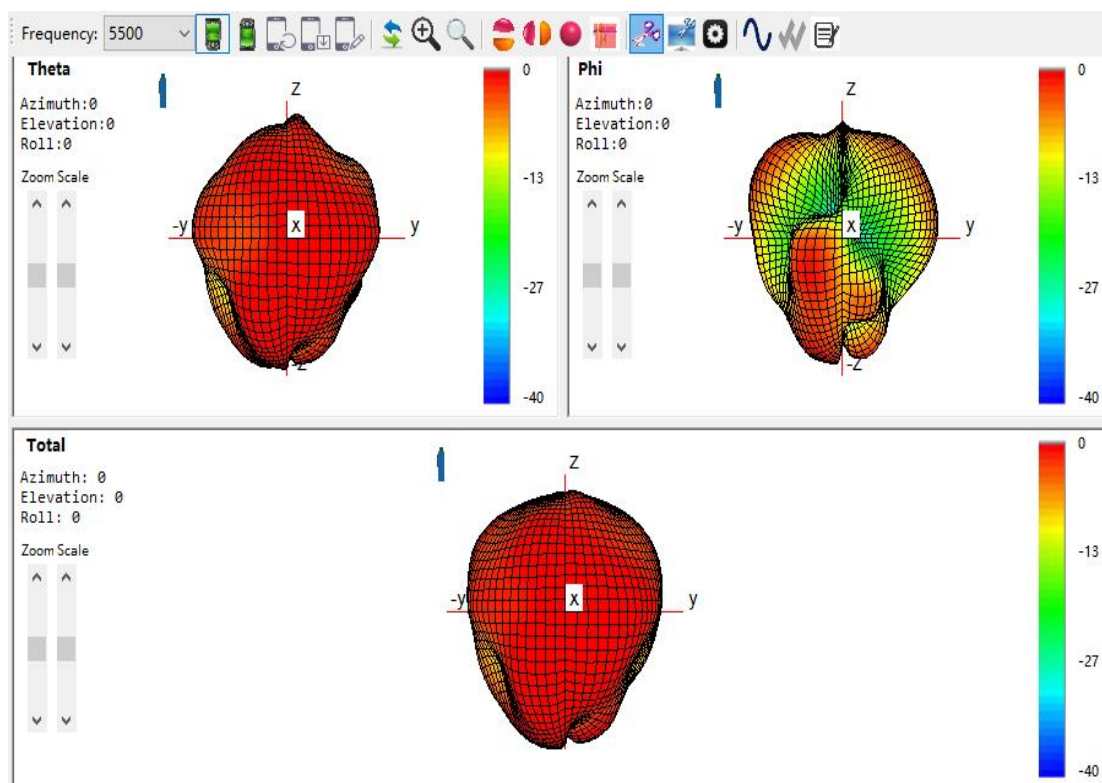
3D Radiation Pattern at 2450MHz Gain = 2.48 dBi(ANT 1)



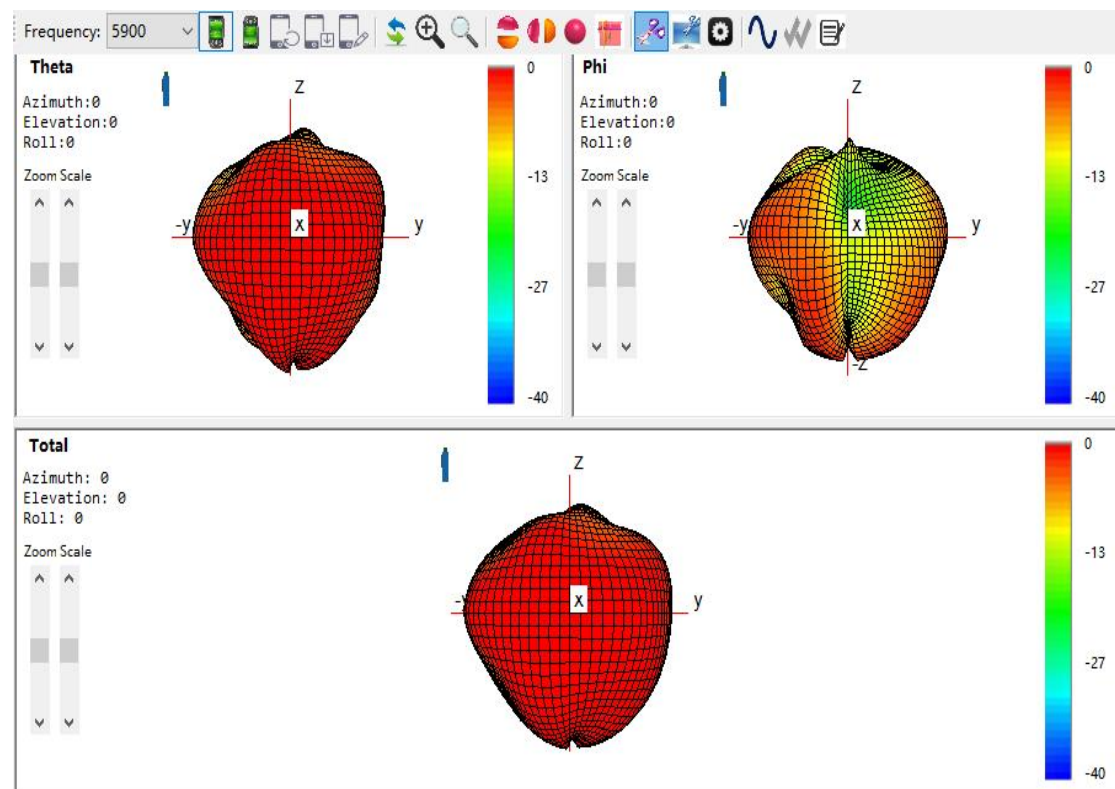
3D Radiation Pattern at 5100MHz Gain = 2.75 dBi(ANT 1)



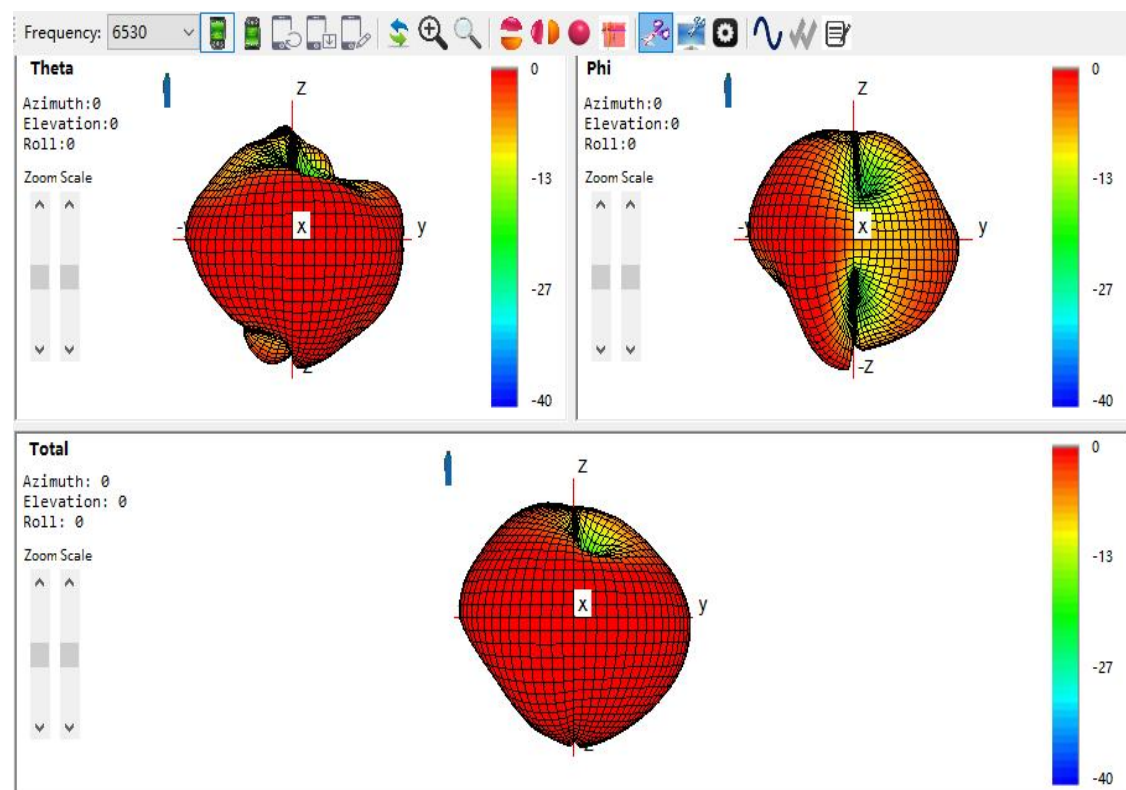
3D Radiation Pattern at 5500MHz Gain = 3.62 dBi(ANT 1)



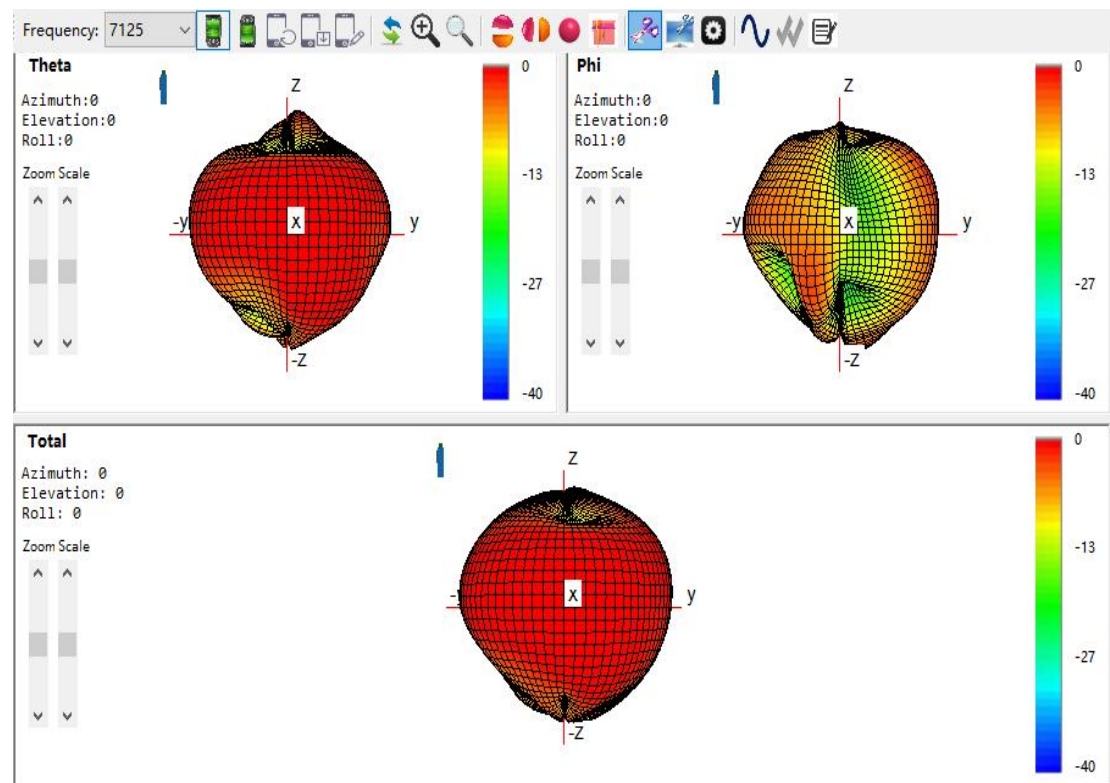
3D Radiation Pattern at 5900MHz Gain = 3.49dBi(ANT 1)



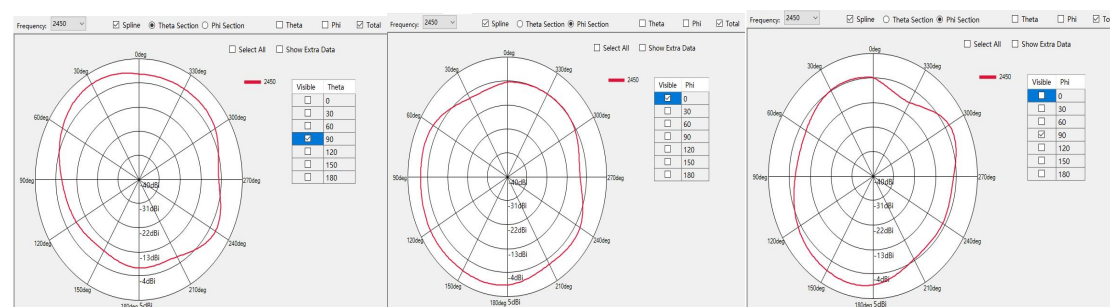
3D Radiation Pattern at 6530MHz Gain = 4.33dBi(ANT 1)



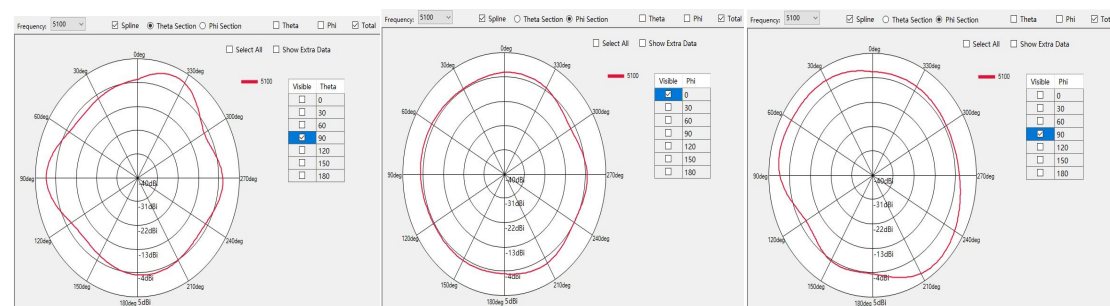
3D Radiation Pattern at 7125MHz Gain = 3.4dBi(ANT 1)



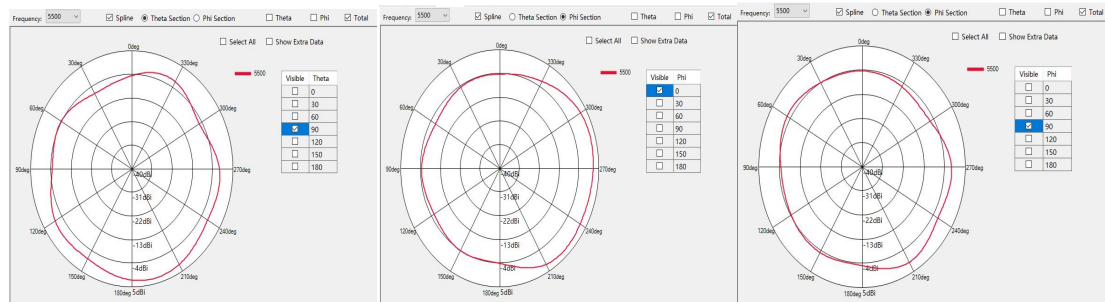
2D Radiation Pattern at 2450MHz Gain = 1.3dBi(ANT 2)



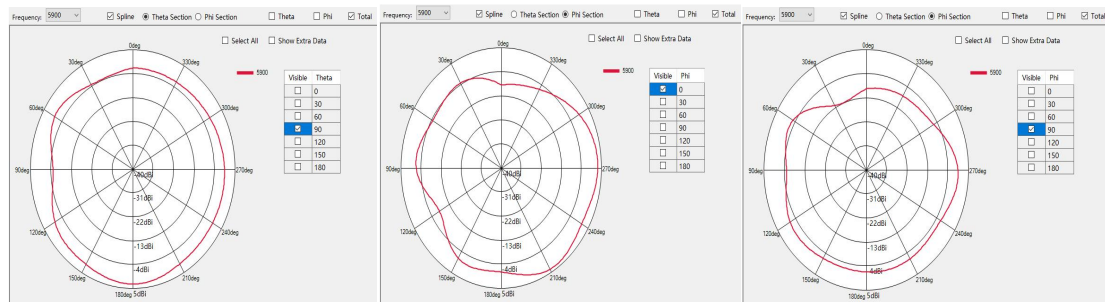
2D Radiation Pattern at 5100MHz Gain = 1.88dBi(ANT 2)



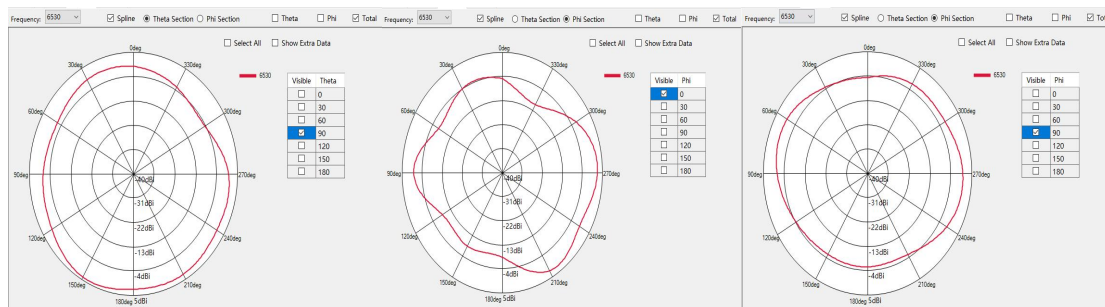
2D Radiation Pattern at 5500MHz Gain = 2.82dBi(ANT 2)



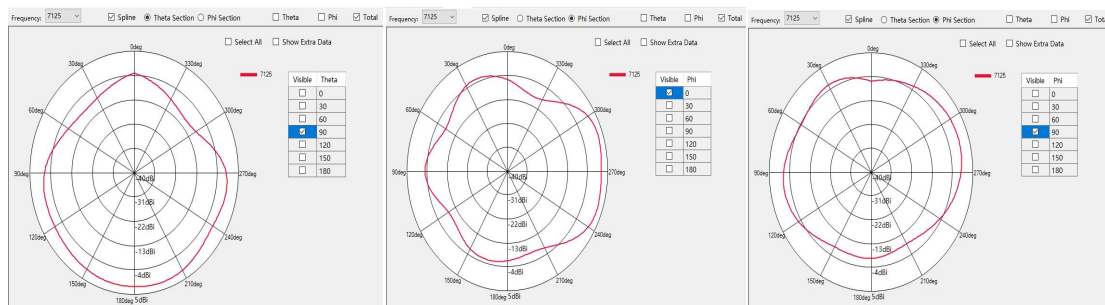
2D Radiation Pattern at 5900MHz Gain =3.75dBi(ANT 2)



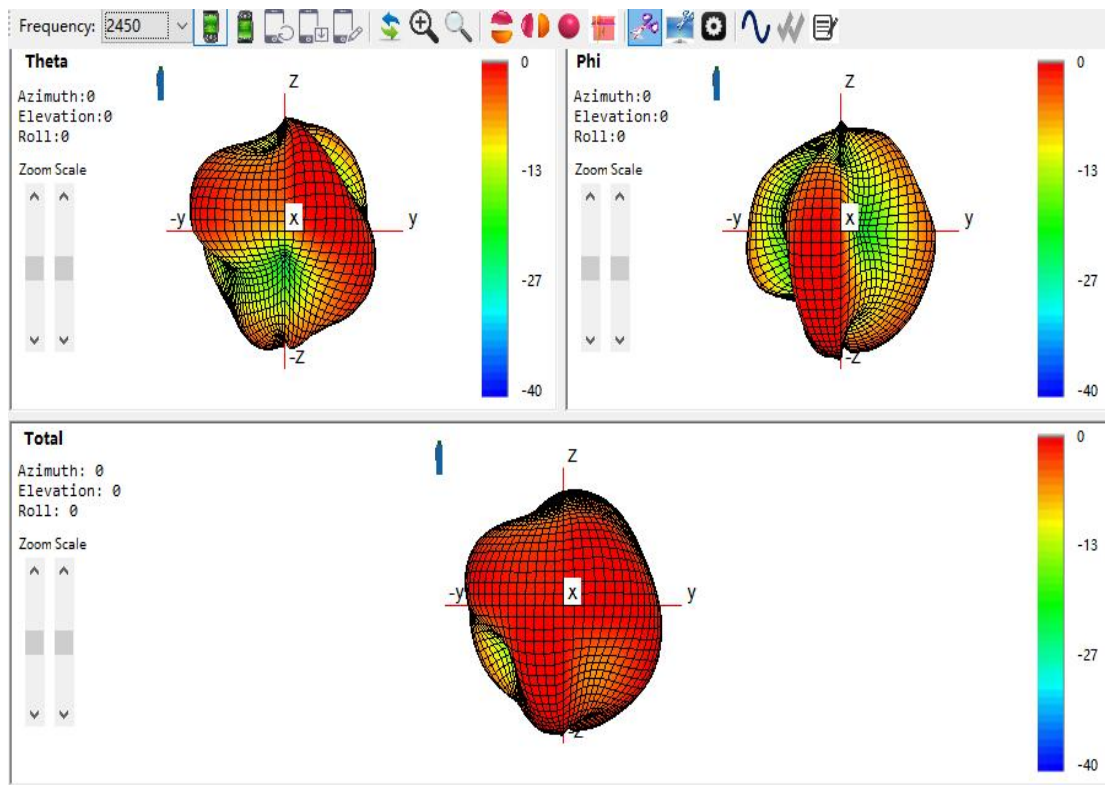
2D Radiation Pattern at 6530MHz Gain =4.07dBi(ANT 2)



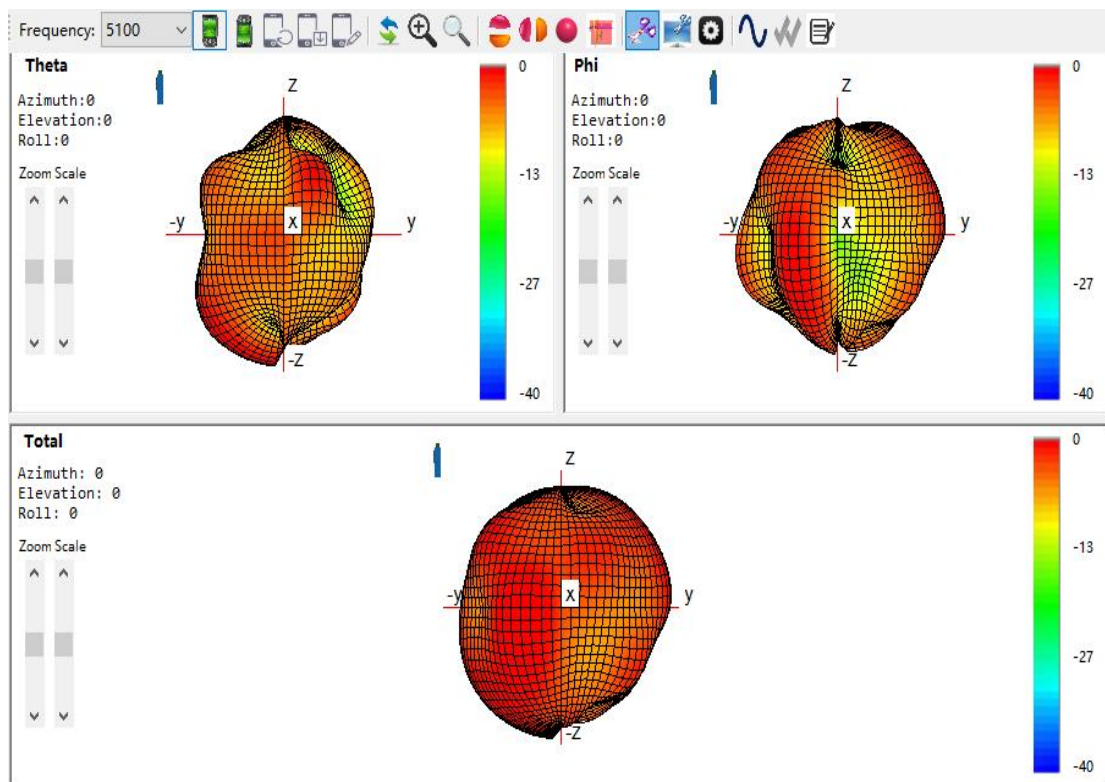
2D Radiation Pattern at 7125MHz Gain =2.13dBi(ANT 2)



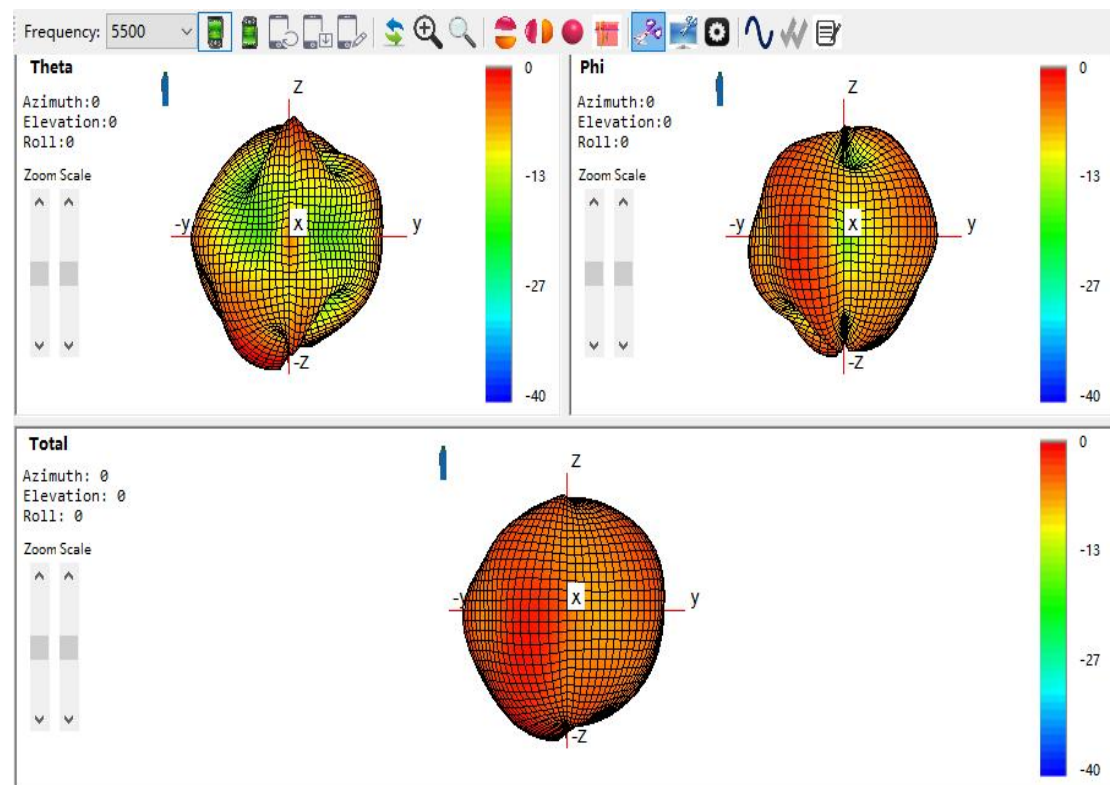
3D Radiation Pattern at 2450MHz Gain = 1.3dBi(ANT 2)



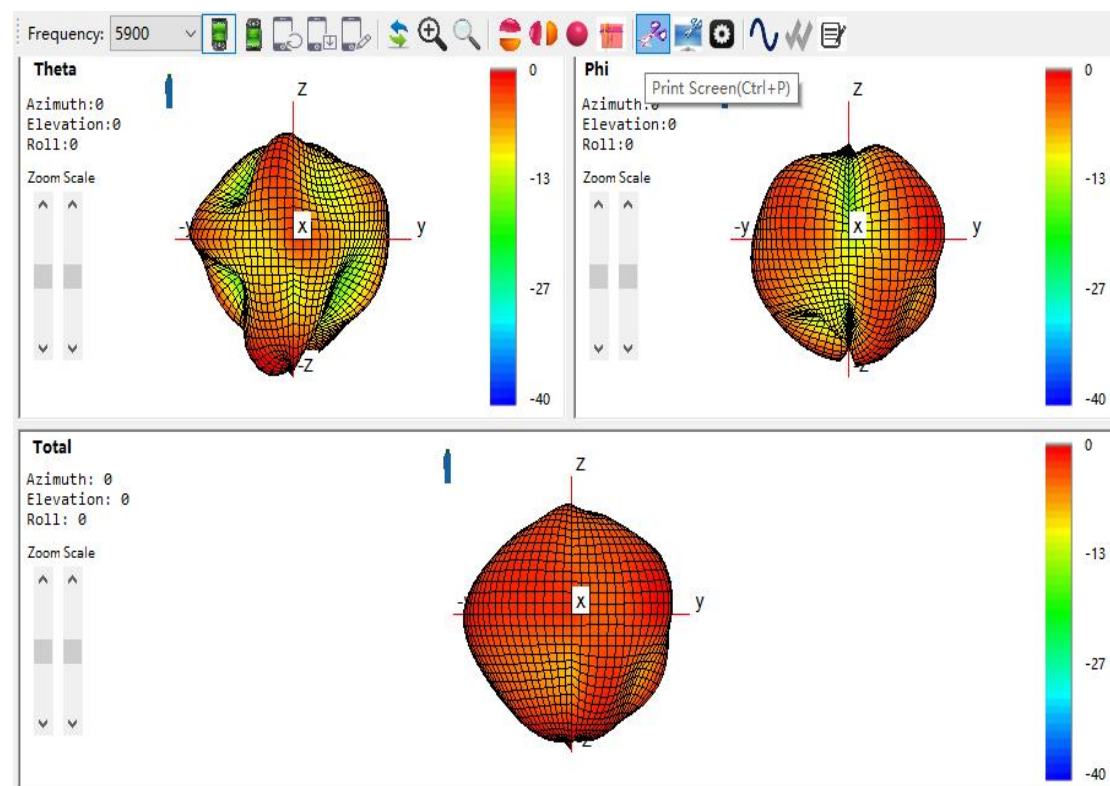
3D Radiation Pattern at 5100MHz Gain = 1.88dBi(ANT 2)



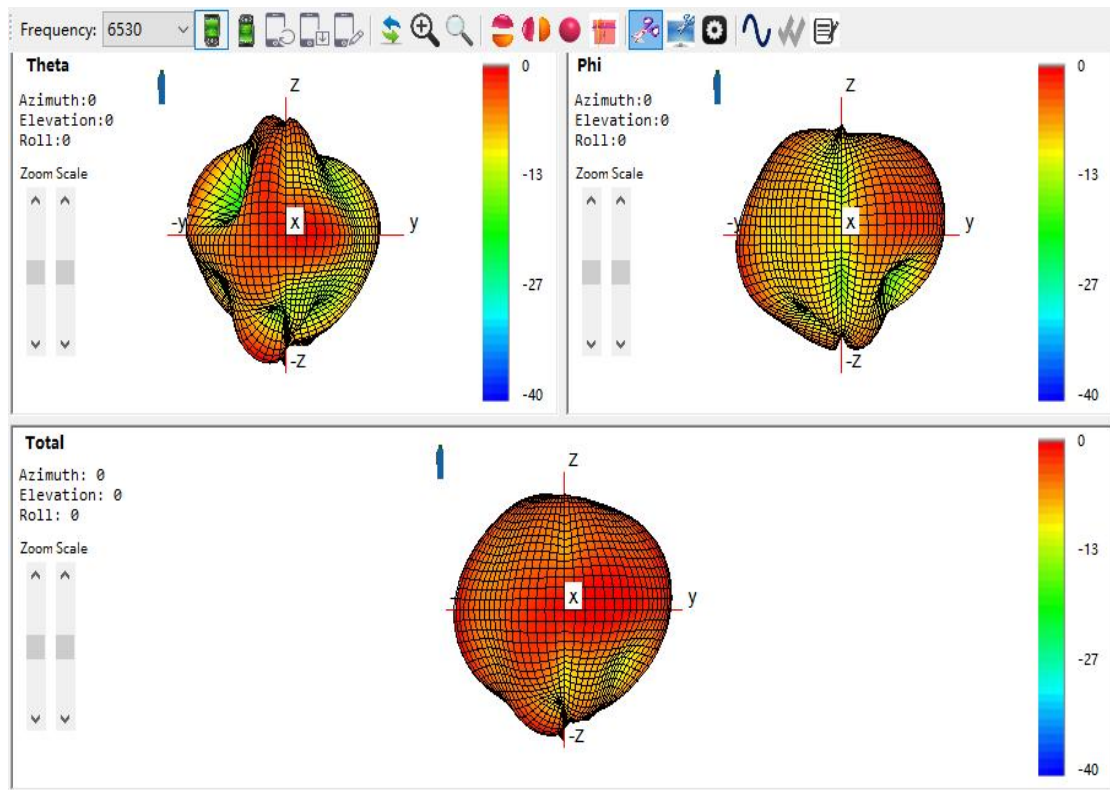
3D Radiation Pattern at 5500MHz Gain = 2.82dBi(ANT 2)



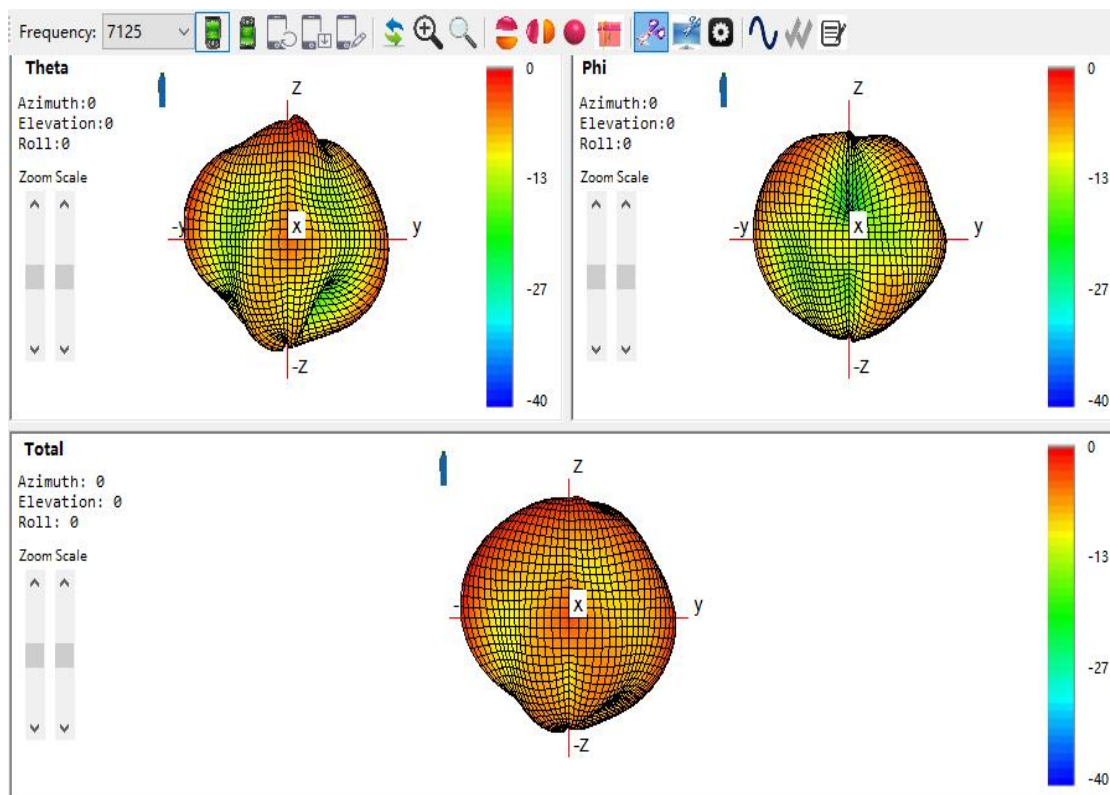
3D Radiation Pattern at 5900MHz Gain = 3.75dBi(ANT 2)



3D Radiation Pattern at 6530MHz Gain =4.07dBi(ANT 2)



3D Radiation Pattern at 7125MHz Gain =2.13dBi(ANT 2)



HOUSING CONFIGURATIONS

