Regulatory WWAN Antenna Information

(English Language Required for Intel Regulatory Review / Approval)

Platform	
Platform Owner	
Brand Name	
Model Name	ZX10G2
ODM	Getac
Target Launch Date	
Antenna	
Manufacturer	PULSE ELECTRONICS(Singapore) Pte Ltd
Address	514 Chai Chee Lane #07-07 Singapore 469029
Part Number	■Antenna WWAN MAIN: Antenna P/N: Main: **422GB1100001**
	■Antenna WWAN AUX: Antenna P/N: Main: **422GB1100003**
	■Antenna MIMO1 : Antenna P/N: Main: **422GB1100004**
	■Antenna MIMO2 : Antenna P/N: Main: **422GB1100005**
Manufacturer address	
Module	
With WWAN Module	
(Check Box)	

Antenna Sample / Antenna Data
Requirements for worldwide regulatory approval

Section	Description of Required OEM / ODM Antenna Information	US / IC	EU	Japan	Taiwan	S.Korea
1A	Part Number for Antenna only	Required	Required	Required	Required	Required
1B	Antenna Manufacturer Name	Required	Required	Required	Required	Required
1C	Description of Antenna Type	Required	N/A	N/A	N/A	N/A
1D	Part number of Antenna Assembly / cable impedance, length & diameter.	Required	Desired	Desired	Desired	Desired
1E	Tx1, Tx2 & Tx3 antenna (Peak Gain W/ cable loss) *	Required	Required	Required	Required	Required
	1E OR 1F, 1G, 1H					
1F	Tx1, Tx2 & Tx3 antenna (Peak Gain only) *	Required	Required	Required	Required	Required
1G	VSWR of cable including connector	Required	Required	Required	Required	Required
1H	Tx1, Tx2 & Tx3 antenna (Cable loss W/ connector) *	Required	Required	Required	Required	Required
2	Dimensioned Photographs and Drawings of Tx1, Tx2, and Tx3 (or Rx3) antennas	Required	Required	Required	Required	Required
3	Radiation patterns of antennas loaded in the host platform.	Required	Desired	Required	N/A	Required
4	Platform model name / number - correlated to antenna manufacturer and antenna part number	Required	Required	Desired	Required	Desired
5	Photograph(s) or Drawings showing location of antennas in platform. (S. Korea requires photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.	Required	Required	Desired	Required (Photos)	Required (Photos)
6	Mech. drawings / photos with dimensions of antenna locations and distance from end-user (For evaluation of SAR testing requirement).	Required	N/A	N/A	N/A	N/A
7	Photograph(s) or Drawings showing the location of all antennas (WLAN, other) and distance between those transmitting antennas. Information will be used to evaluate whether co-location testing is required.	Required	N/A	N/A	N/A	N/A
8	Local representative contact information for LMA/ PARS process.	Required	N/A	N/A	N/A	N/A

Antenna Information

Section 1. Antenna Assembly Specifications

Communication System	Band	Frequency(MHz) from low to high spectrum		1A Part Number for Antenna Assembly	1B Antenna Manufacturer Name	1C Description of Antenna Type	1D *Peak Gain W/ Cable loss (dBi)
WCDMA/ LTE/5G NR FR1	1	1920	1980	WWAN MAIN Antenna Getac P/N: 422GB1100001		PIFA	4.08
WCDMA/ LTE/5G NR FR1	2	1850	1910				3.07
LTE/5G NR FR1	3	1710	1785				2.90
WCDMA/ LTE	4	1710	1755				2.45
WCDMA/ LTE/5G NR FR1	5	824	849				1.83
LTE/5G NR FR1	7	2500	2570				1.14
WCDMA/ LTE/5G NR FR1	8	880	915				-0.12
LTE/5G NR FR1	12	699	716				1.50
LTE/5G NR FR1	13	777	787				1.84
LTE/5G NR FR1	14	788	798				1.87
LTE	17	704	716				1.33
LTE/5G NR FR1	18	815	830				2.19
LTE	19	830	845				1.83
LTE/5G NR FR1	20	832	862				1.25
LTE/5G NR FR1	25	1850	1915				3.25
LTE/5G NR FR1	26	814	849				2.19
LTE/5G NR FR1	28	703	748				1.33
LTE/5G NR FR1	30	2305	2315				1.38
LTE	34	2010	2025				
LTE/5G NR FR1	38	2570	2620				1.38
LTE	39	1880	1920				3.25
LTE/5G NR FR1	40	2300	2400				4.71
LTE/5G NR FR1	41	2496	2690				1.66
LTE	42	3400	3600				2.03
LTE	43	3600	3800				2.59
LTE/5G NR FR1	48	3550	3700				1.06
LTE/5G NR FR1	66	1710	1780				2.90
LTE/5G NR FR1	71	663	698				
5G NR FR1	77	3300	4200				2.59
5G NR FR1	78	3300	3800				2.59
5G NR FR1	79	4400	5000				2.59

Communication System	Band	Frequency(MHz) from low to high spectrum		1A Part Number for Antenna Assembly	1B Antenna Manufacturer Name	1C Description of Antenna Type	1D *Peak Gain W/ Cable loss (dBi)
WCDMA/ LTE/5G NR FR1	1	1920	1980	WWAN AUX Antenna Getac P/N: 422GB1100003	WNC	PIFA	3.93
WCDMA/ LTE/5G NR FR1	2	1850	1910				3.32
LTE/5G NR FR1	3	1710	1785				
WCDMA/ LTE	4	1710	1755				
WCDMA/ LTE/5G NR FR1	5	824	849				-0.40
LTE/5G NR FR1	7	2500	2570				3.53
WCDMA/ LTE/5G NR FR1	8	880	915				-1.56
LTE/5G NR FR1	12	699	716				-1.20
LTE/5G NR FR1	13	777	787				0.77
LTE/5G NR FR1	14	788	798				0.59
LTE	17	704	716				-1.20
LTE/5G NR FR1	18	815	830				0.66
LTE	19	830	845				0.60
LTE/5G NR FR1	20	832	862				0.26
LTE/5G NR FR1	25	1850	1915				3.32
LTE/5G NR FR1	26	814	849				0.66
LTE/5G NR FR1	28	703	748				-0.40
LTE/5G NR FR1	30	2305	2315				3.27
LTE	34	2010	2025				4.07
LTE/5G NR FR1	38	2570	2620				2.96
LTE	39	1880	1920				3.12
LTE/5G NR FR1	40	2300	2400				3.27
LTE/5G NR FR1	41	2496	2690				2.99
LTE	42	3400	3600				3.57
LTE	43	3600	3800				5.35
LTE/5G NR FR1	48	3550	3700				4.64
LTE/5G NR FR1	66	1710	1780				
LTE/5G NR FR1	71	663	698				-3.83
5G NR FR1	77	3300	4200				4.64
5G NR FR1	78	3300	3800				4.64
5G NR FR1	79	4400	5000				4.64

Communication System	Band	Frequency(MHz) from low to high spectrum		1A Part Number for Antenna Assembly	1B Antenna Manufacturer Name	1C Description of Antenna Type	1D *Peak Gain W/ Cable loss (dBi)
WCDMA/ LTE/5G NR FR1	1	1920	1980	MIMO1 Antenna Getac P/N: **422GB1100005**	WNC	PIFA	1.66
WCDMA/ LTE/5G NR FR1	2	1850	1910				1.33
LTE/5G NR FR1	3	1710	1785				
WCDMA/ LTE	4	1710	1755				
WCDMA/ LTE/5G NR FR1	5	824	849				
LTE/5G NR FR1	7	2500	2570				1.95
WCDMA/ LTE/5G NR FR1	8	880	915				
LTE/5G NR FR1	12	699	716				
LTE/5G NR FR1	13	777	787				
LTE/5G NR FR1	14	788	798				
LTE	17	704	716				
LTE/5G NR FR1	18	815	830				
LTE	19	830	845				
LTE/5G NR FR1	20	832	862				
LTE/5G NR FR1	25	1850	1915				1.55
LTE/5G NR FR1	26	814	849				
LTE/5G NR FR1	28	703	748				
LTE/5G NR FR1	30	2305	2315				1.14
LTE	34	2010	2025				0.95
LTE/5G NR FR1	38	2570	2620				1.34
LTE	39	1880	1920				1.55
LTE/5G NR FR1	40	2300	2400				1.14
LTE/5G NR FR1	41	2496	2690				2.06
LTE	42	3400	3600				0.85
LTE	43	3600	3800				0.85
LTE/5G NR FR1	48	3550	3700				0.85
LTE/5G NR FR1	66	1710	1780				
LTE/5G NR FR1	71	663	698				
5G NR FR1	77	3300	4200				3.19
5G NR FR1	78	3300	3800				3.19
5G NR FR1	79	4400	5000				

Communication System	Band	Frequency(MHz) from low to high spectrum		1A Part Number for Antenna Assembly	1B Antenna Manufacturer Name	1C Description of Antenna Type	1D *Peak Gain W/ Cable loss (dBi)
WCDMA/ LTE/5G NR FR1	1	1920	1980	MIMO2 Antenna Getac P/N: 422GB1100005	WNC	PIFA	3.13
WCDMA/ LTE/5G NR FR1	2	1850	1910				2.90
LTE/5G NR FR1	3	1710	1785				
WCDMA/ LTE	4	1710	1755				
WCDMA/ LTE/5G NR FR1	5	824	849				
LTE/5G NR FR1	7	2500	2570				3.37
WCDMA/ LTE/5G NR FR1	8	880	915				
LTE/5G NR FR1	12	699	716				
LTE/5G NR FR1	13	777	787				
LTE/5G NR FR1	14	788	798				
LTE	17	704	716				
LTE/5G NR FR1	18	815	830				
LTE	19	830	845				
LTE/5G NR FR1	20	832	862				
LTE/5G NR FR1	25	1850	1915				3.13
LTE/5G NR FR1	26	814	849				
LTE/5G NR FR1	28	703	748				
LTE/5G NR FR1	30	2305	2315				4.24
LTE	34	2010	2025				3.88
LTE/5G NR FR1	38	2570	2620				3.55
LTE	39	1880	1920				3.13
LTE/5G NR FR1	40	2300	2400				4.24
LTE/5G NR FR1	41	2496	2690				4.16
LTE	42	3400	3600				0.94
LTE	43	3600	3800				0.94
LTE/5G NR FR1	48	3550	3700				0.94
LTE/5G NR FR1	66	1710	1780				
LTE/5G NR FR1	71	663	698				
5G NR FR1	77	3300	4200				4.28
5G NR FR1	78	3300	3800				4.28
5G NR FR1	79	4400	5000				

- **Antenna Peak Gain required being test in system basis.**
- **1E frame contend absolutely peak antenna gain include H/V**

Antenna Peak Gain Table:
Low and middle band

	MAIN	AUX	MIMO1	MIMO2
Freq	Peak Gain W/ Cable loss (dBi)	Peak Gain W/ Cable loss (dBi)	Peak Gain W/ Cable loss (dBi)	Peak Gain W/ Cable loss (dBi)
617	2.12	-9.44		
635	1.50	-7.28		
652	1.97	-3.83		
696	1.5	-2.31		
704	1.33	-1.81		
710	1.21	-1.59		
716	1.12	-1.20		
720	1.03	-0.98		
725	1.02	-0.82		
734	0.98	-0.67		
740	0.86	-0.55		
746	0.77	-0.40		
756	0.63	-0.03		
765	0.65	0.32		
772	1.05	0.50		
777	1.32	0.44		
782	1.58	0.77		
787	1.84	0.59		
791	1.87	0.50		
806	2.19	0.32		
821	1.94	0.66		
824	1.83	0.60		
836	1.25	0.26		
849	0.54	-0.45		
862	0.24	-0.84		
869	0.17	-1.12		
880	-0.12	-1.56		
894	-0.40	-1.83		
900	-0.51	-1.89		
915	-0.91	-2.07		
925	-0.61	-2.30		
940	-0.45	-2.37		
960	-0.30	-2.30		

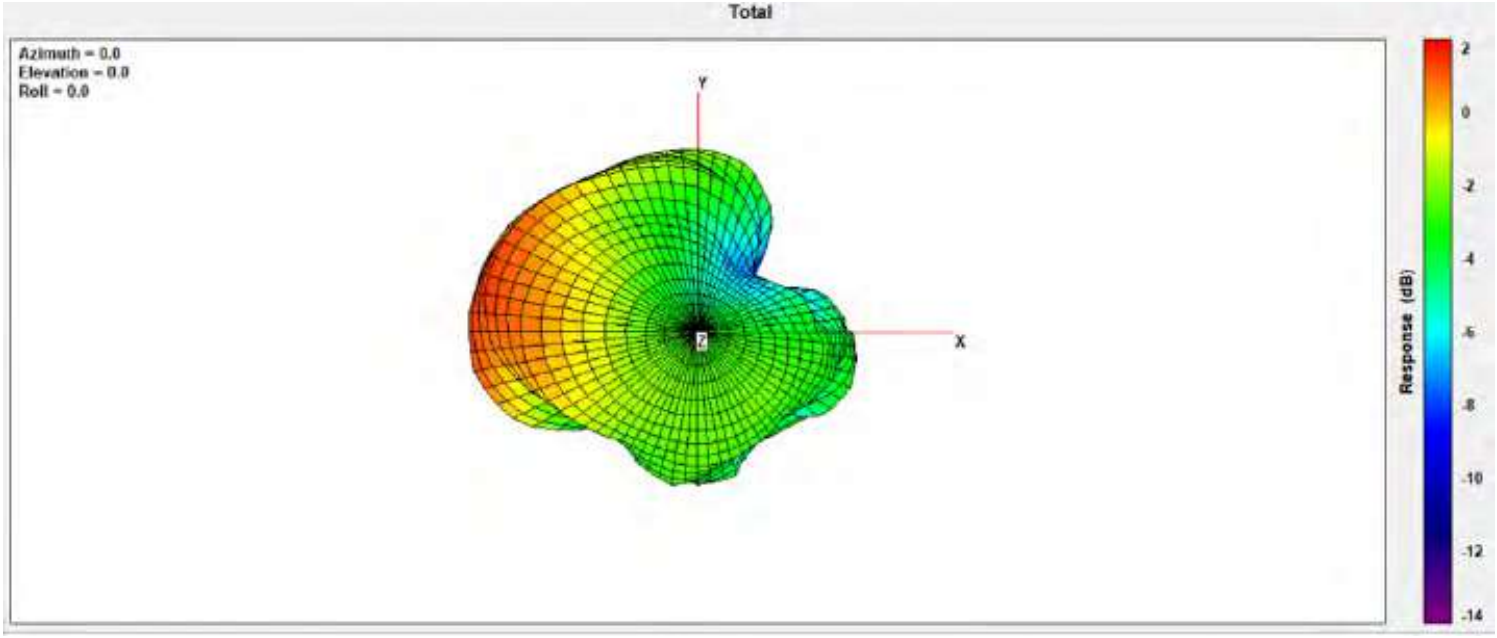
1164				-16.50
1176				-16.92
1189				-16.45
1565		2.01		
1575		2.46		
1585		2.53		
1595		2.80		
1602		3.00		
1695		2.76		
1710	2.13			
1730	2.12			
1750	2.45			
1770	2.63			
1785	2.90			
1805	3.01			
1840	2.74			
1850	2.83	3.32	-0.13	1.68
1880	3.07	3.12	0.83	2.16
1910	3.07	2.87	1.33	2.90
1920	3.25	2.50	1.55	3.13
1930	3.40	2.34	1.48	2.84
1950	4.08	3.40	1.51	2.89
1960	4.54	3.73	1.66	2.96
1980	4.56	3.93	1.33	2.99
1995	4.62	4.07	0.95	2.90
2110	3.61	3.10	0.91	3.88
2140	3.51	3.55	1.17	4.42
2170	4.71	3.81	0.75	4.81
2300	1.38	3.27	1.14	4.24
2325	0.56	3.12	0.88	3.01
2350	2.03	2.97	0.57	2.65
2375	2.52	2.91	-0.25	2.75
2400	1.59	3.22	0.22	2.17
2500	0.05	3.53	2.02	2.37
2515	0.16	2.97	1.96	3.26
2535	0.49	2.41	1.95	2.79
2555	0.59	1.65	1.53	1.78
2570	1.14	2.21	1.34	1.96
2620	1.17	2.73	0.17	3.55
2630	0.66	2.99	0.25	3.43

2655	1.66	2.79	1.14	4.07
2680	1.10	2.86	2.06	4.05
2690	1.11	2.82	1.88	4.16
3300	2.06	1.41	2.98	3.99
3400	2.03	2.08	0.5	0.06
3550	1.06	3.49	0.20	0.23
3600	0.02	3.57	0.39	0.47
3700	0.94	4.64	0.85	0.94
3800	2.59	5.35	1.63	2.69
5150	3.46	3.87		
5250	3.86	3.82		
5725	4.15	2.74		
5850	4.48	5.24		
5925	3.38	4.63		
6000	4.72	3.94		

Section 3. Radiation characteristics of antennae Loaded in Host Platform

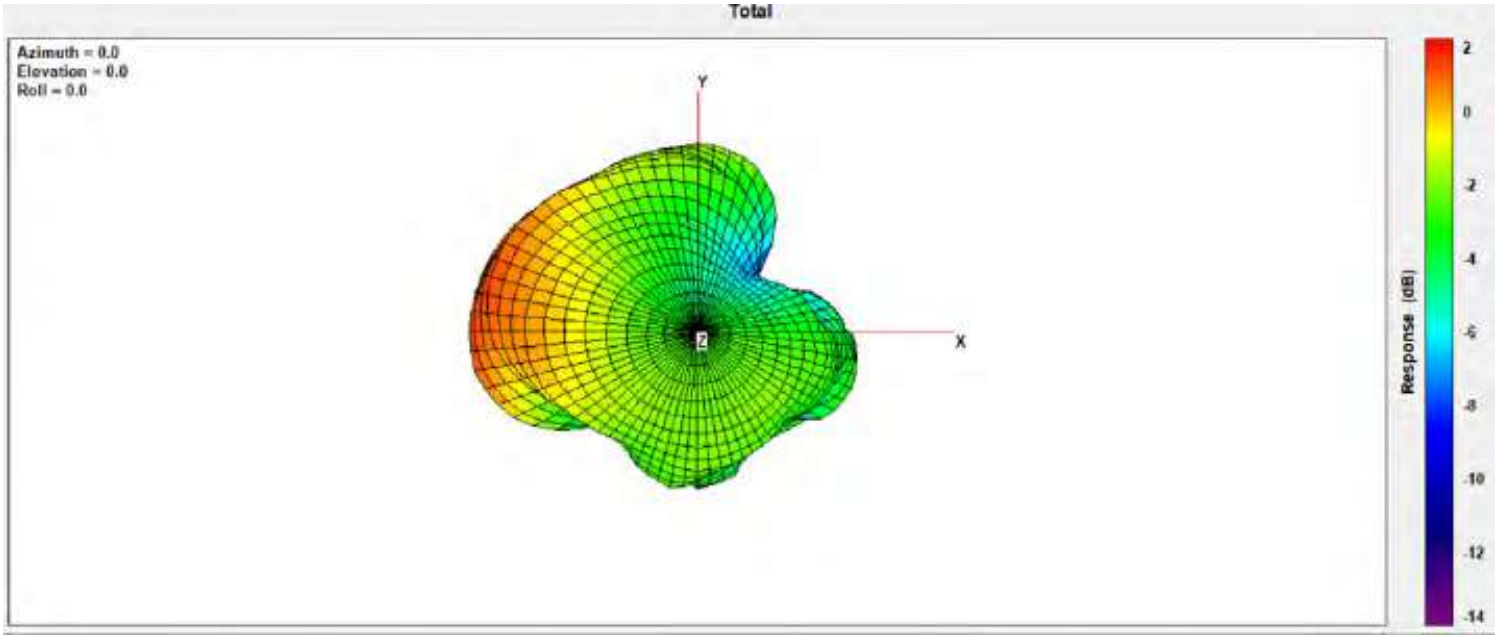
WWAN Main Antenna

696MHz



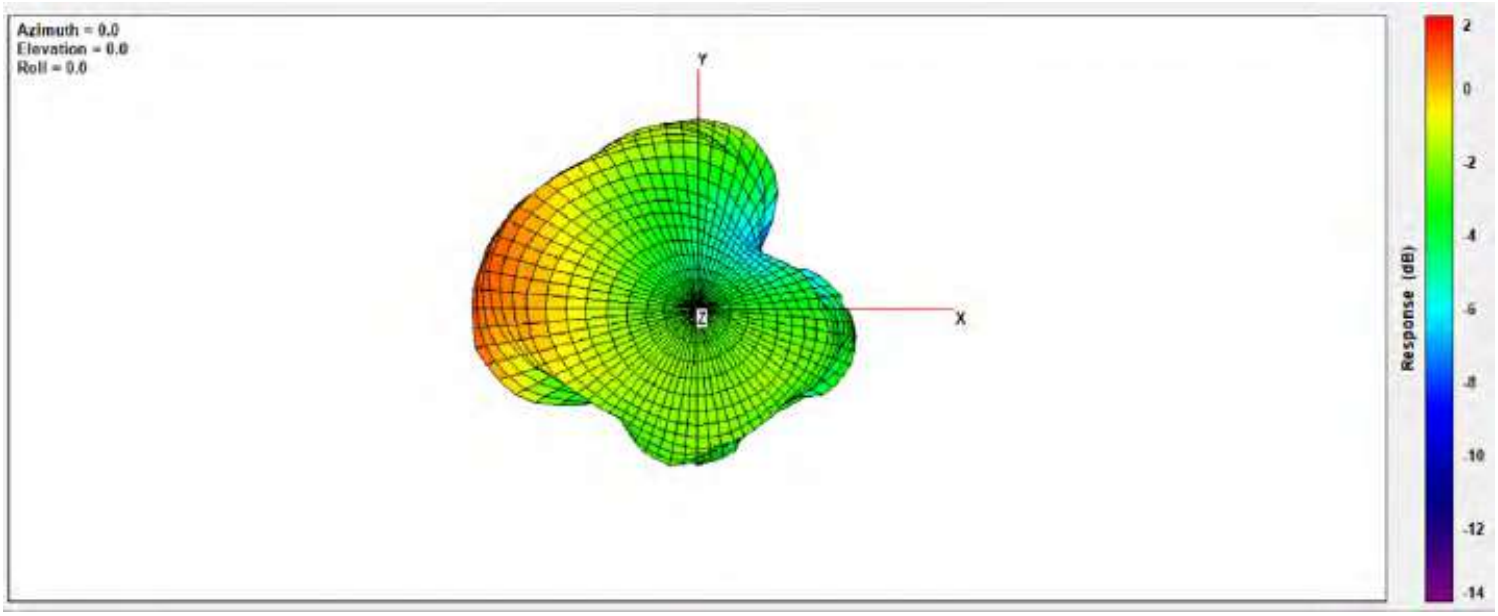
Center Frequency	**696MHz**
Peak Gain W/ Cable loss (dBi)	1.50

704MHz



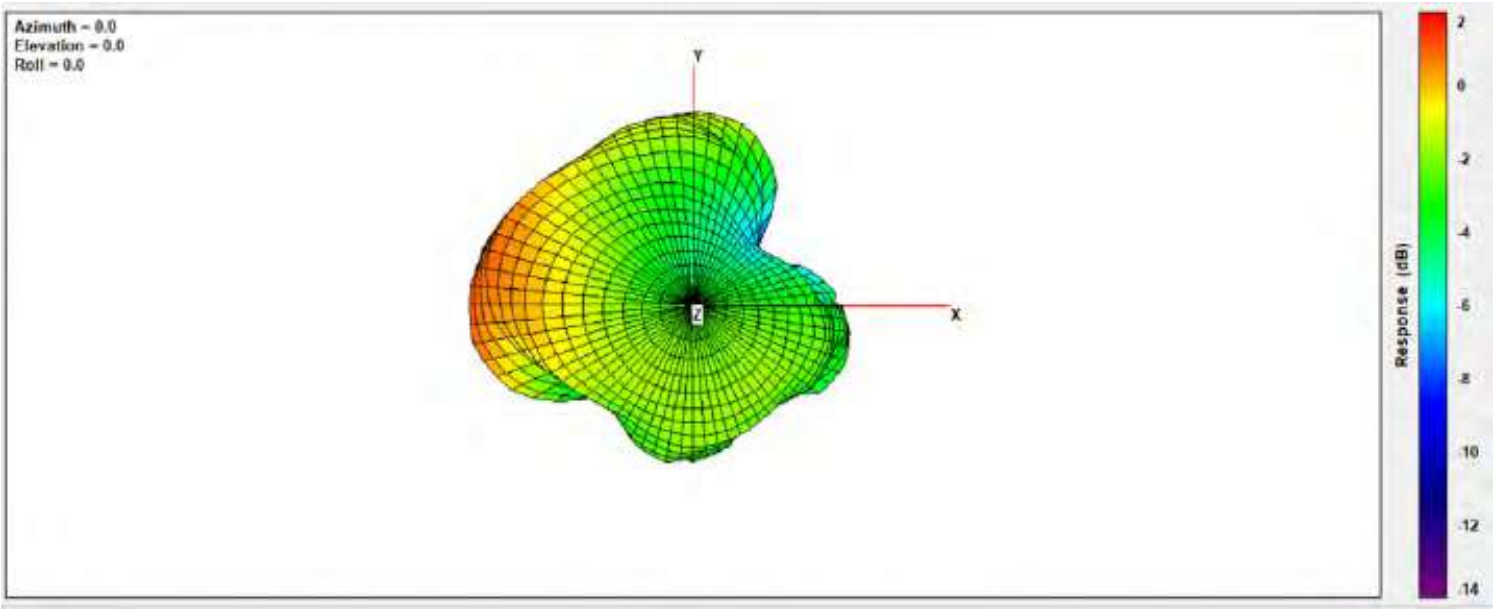
Center Frequency	**704MHz**
Peak Gain W/ Cable loss (dBi)	1.33

710MHz



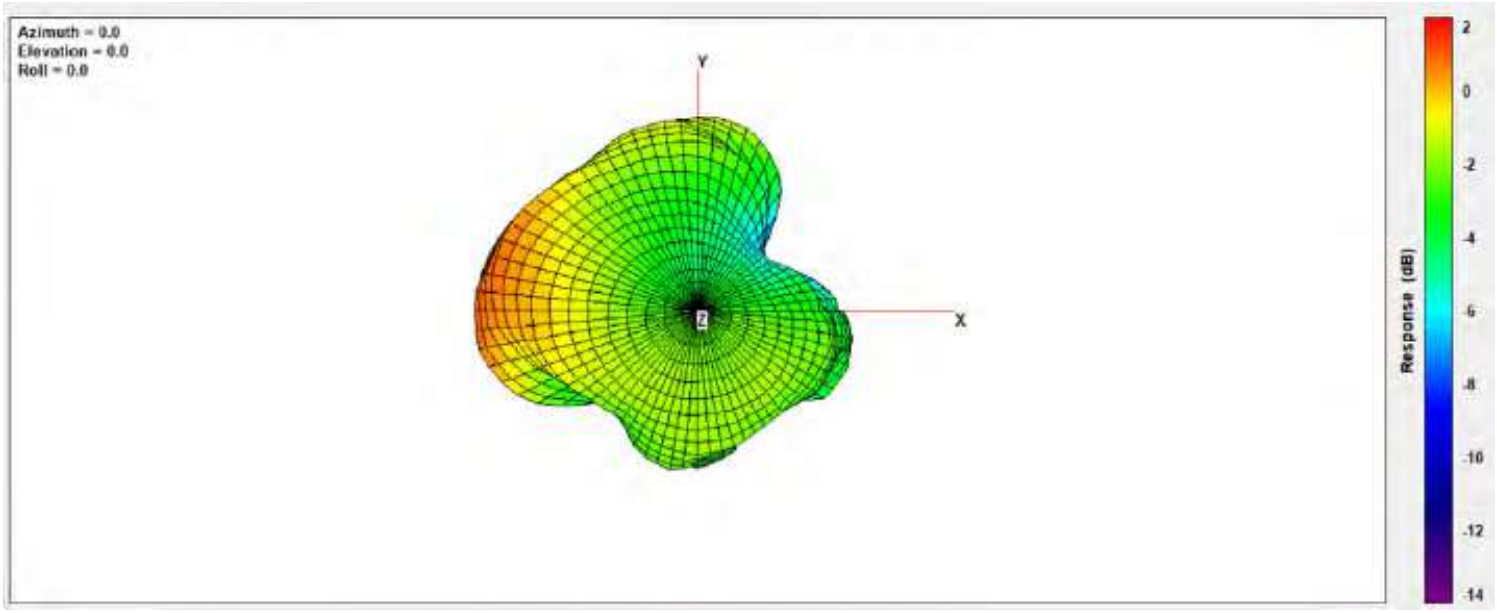
Center Frequency	**710MHz**
Peak Gain W/ Cable loss (dBi)	1.21

716MHz



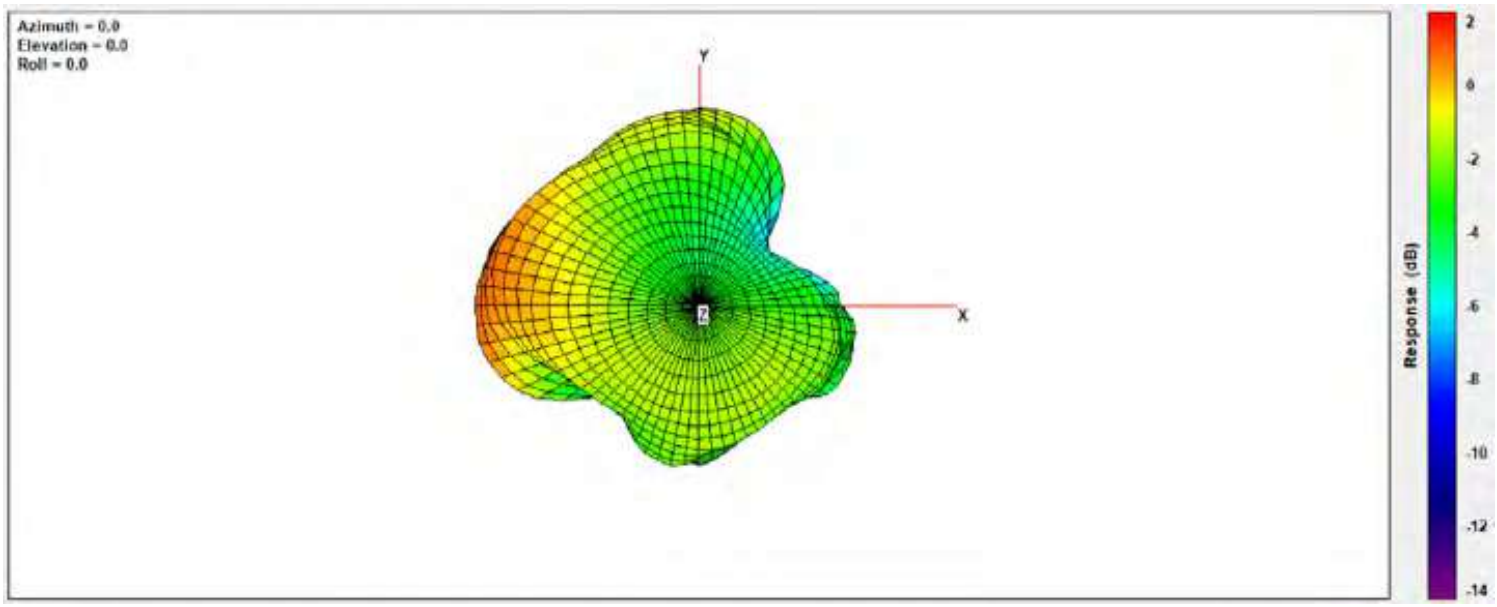
Center Frequency	**716MHz**
Peak Gain W/ Cable loss (dBi)	1.12

720MHz



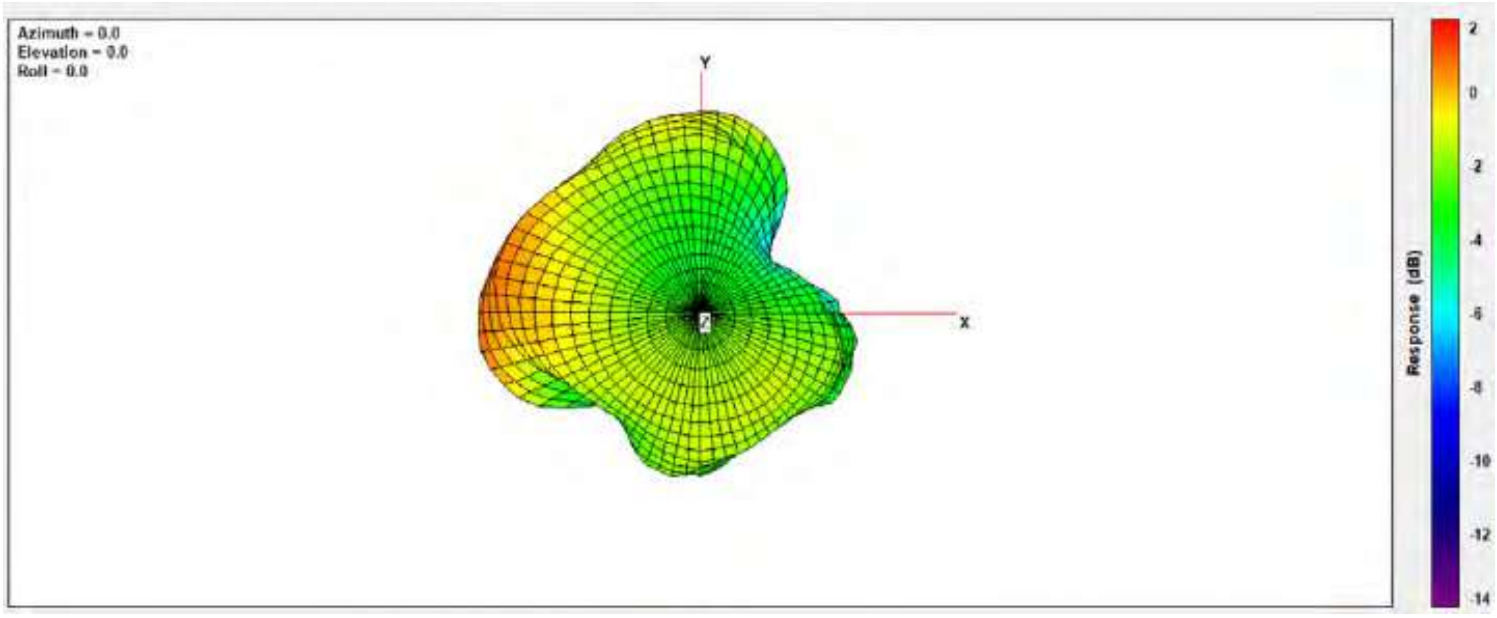
Center Frequency	**720MHz**
Peak Gain W/ Cable loss (dBi)	1.03

725MHz



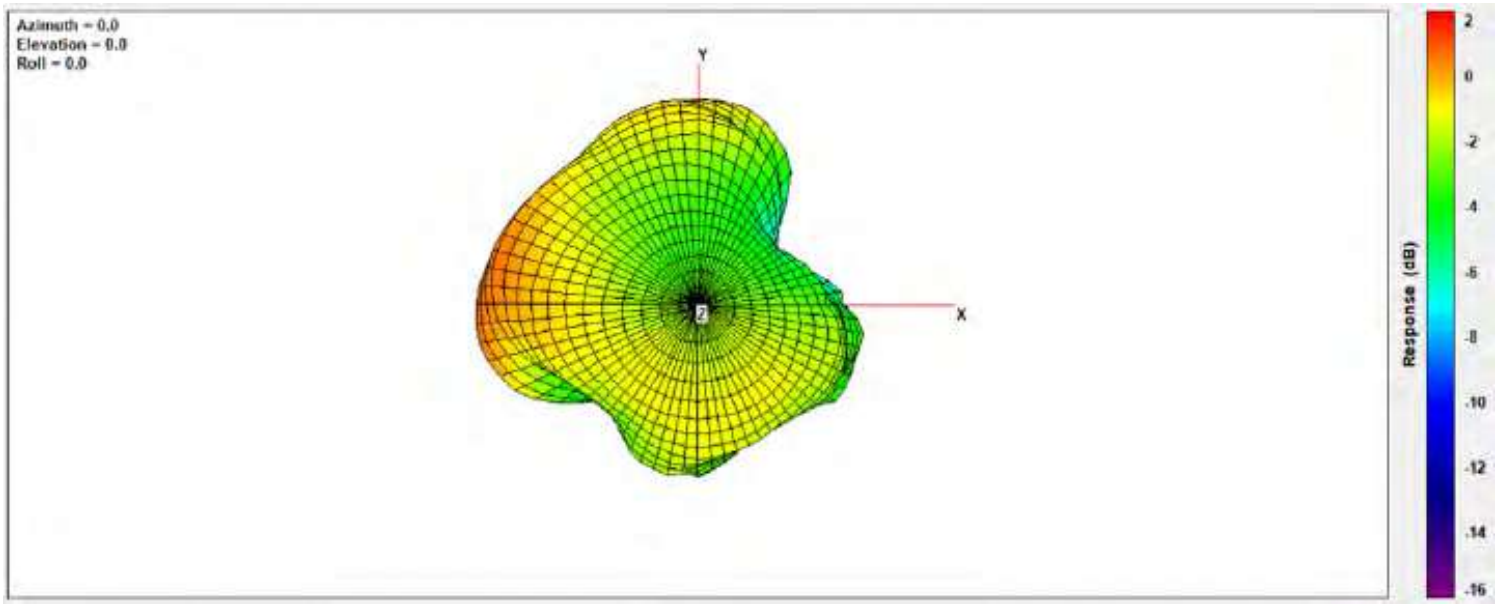
Center Frequency	**725MHz**
Peak Gain W/ Cable loss (dBi)	1.02

734MHz



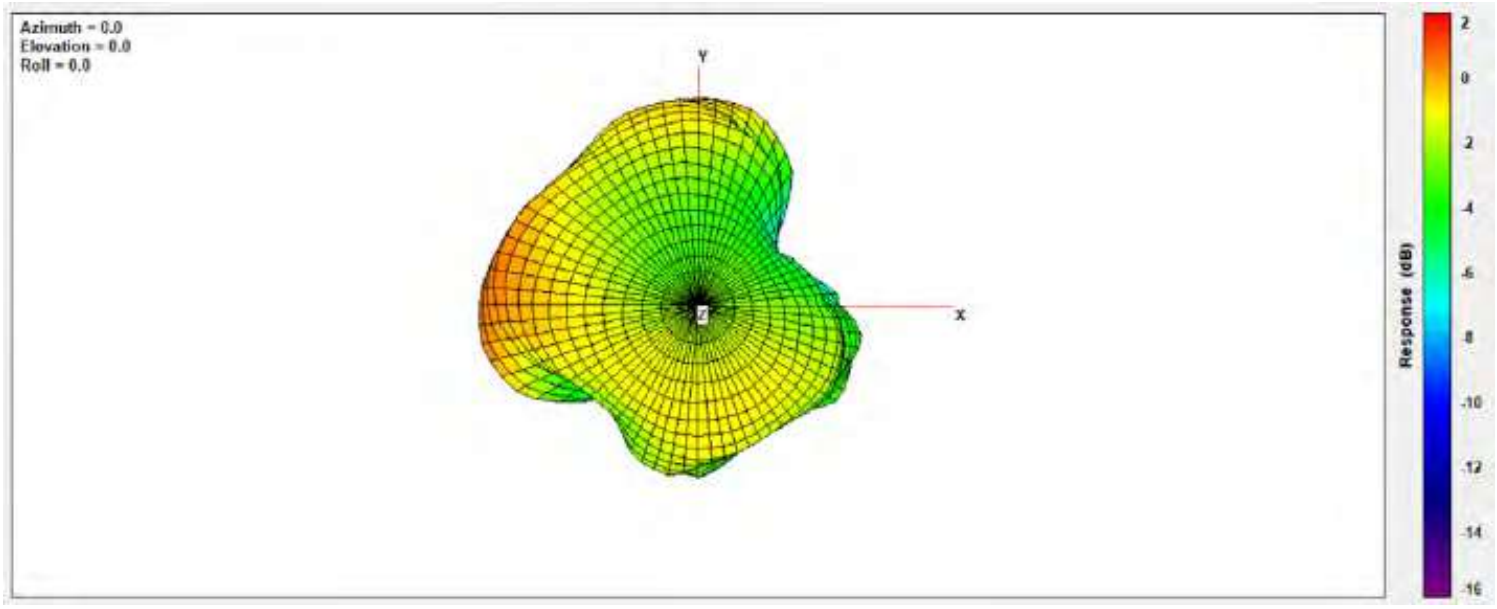
Center Frequency	**734MHz**
Peak Gain W/ Cable loss (dBi)	0.98

740MHz



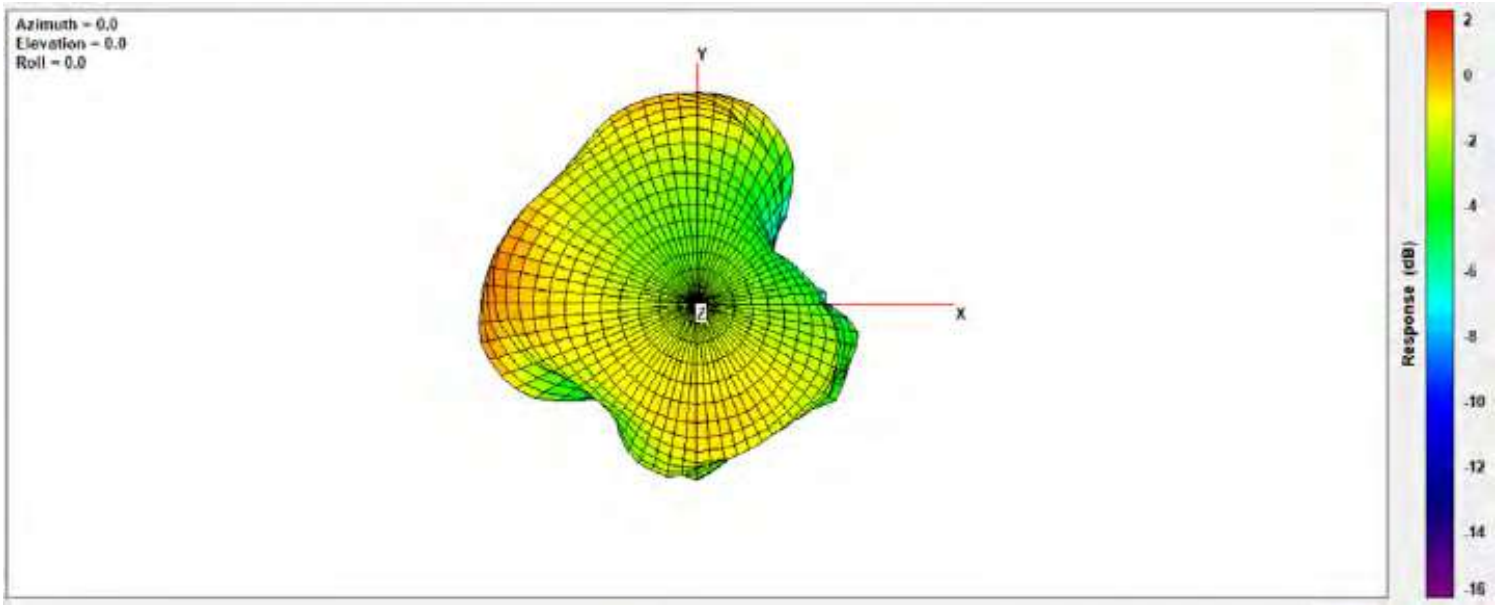
Center Frequency	**740MHz**
Peak Gain W/ Cable loss (dBi)	0.86

746MHz



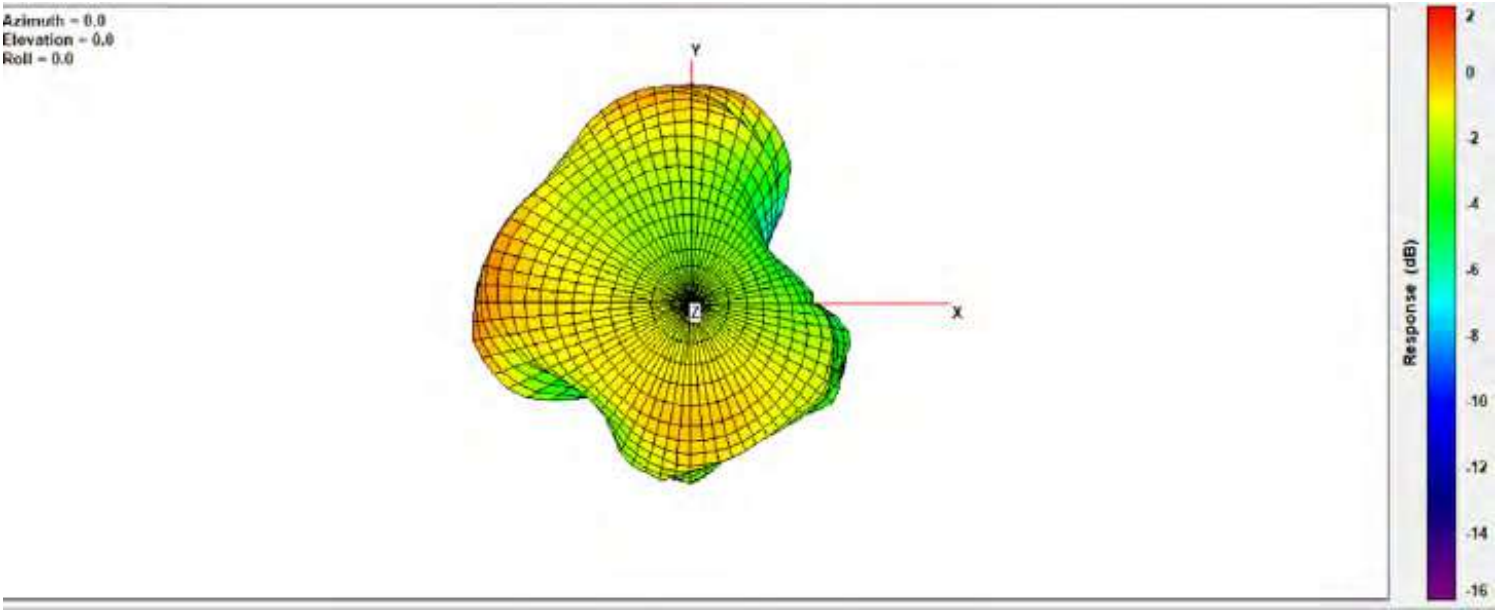
Center Frequency	**746MHz**
Peak Gain W/ Cable loss (dBi)	0.77

756MHz



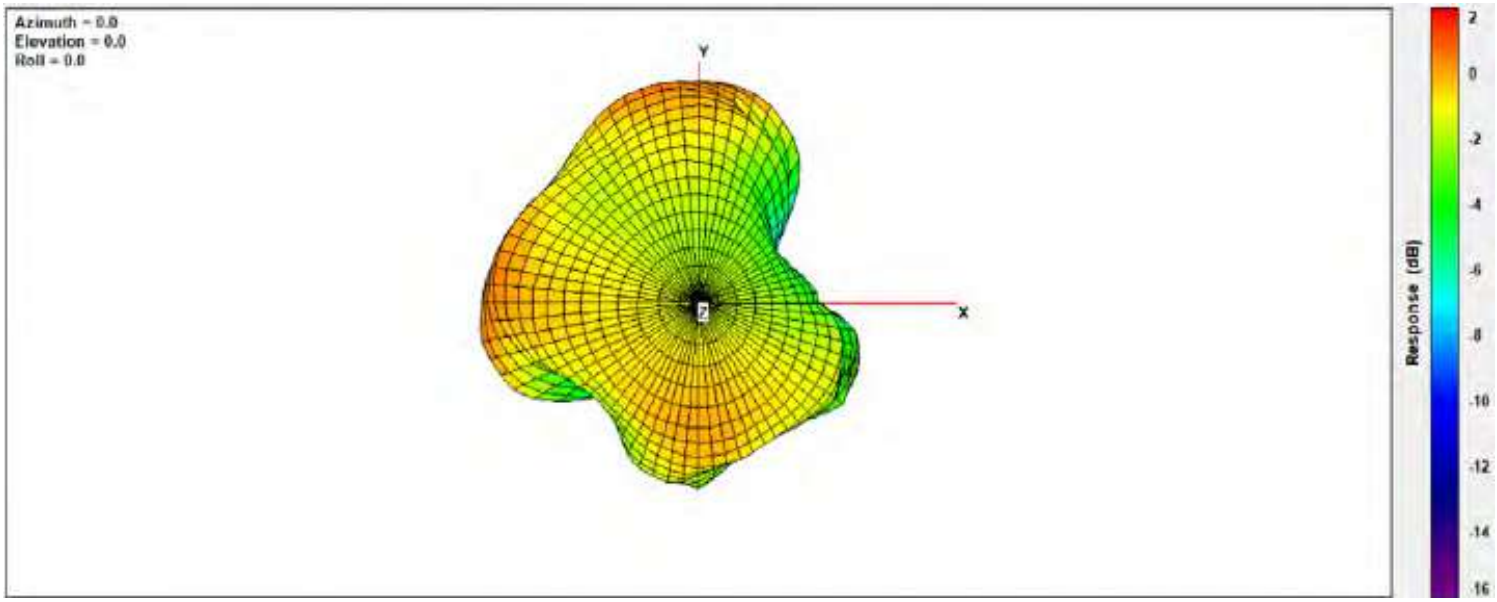
Center Frequency	**756MHz**
Peak Gain W/ Cable loss (dBi)	0.63

765MHz



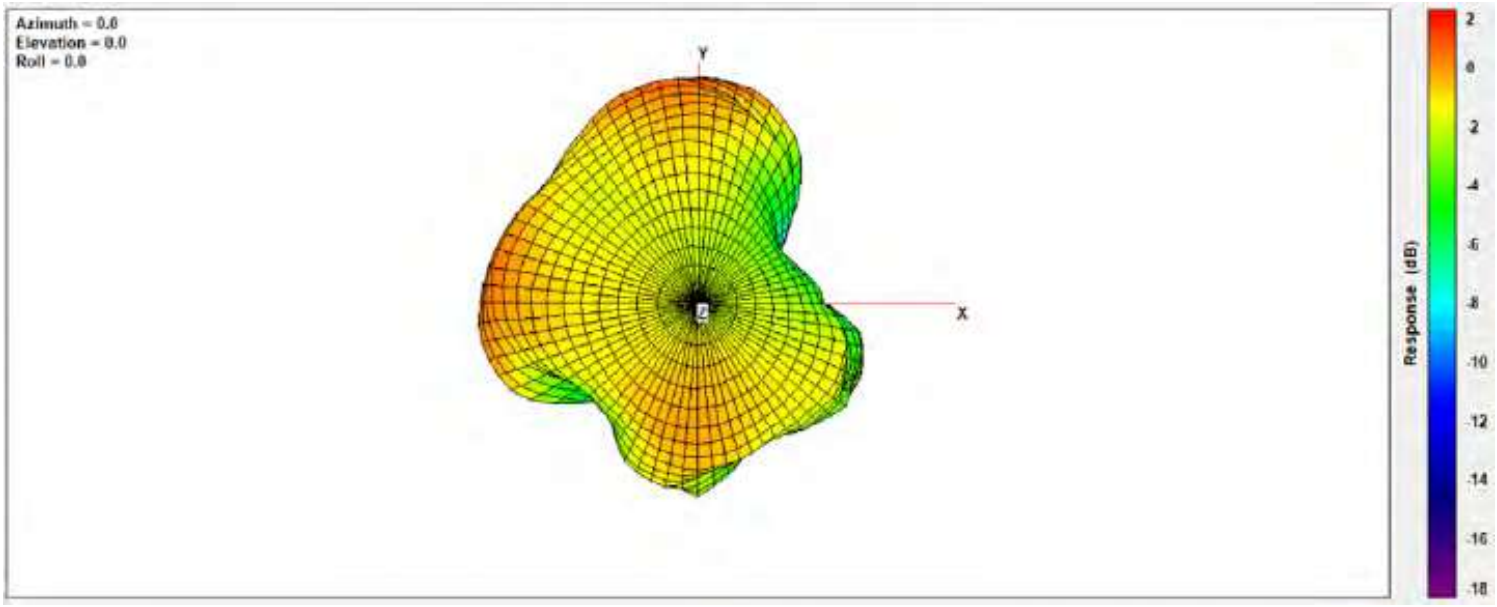
Center Frequency	**765MHz**
Peak Gain W/ Cable loss (dBi)	0.65

772MHz



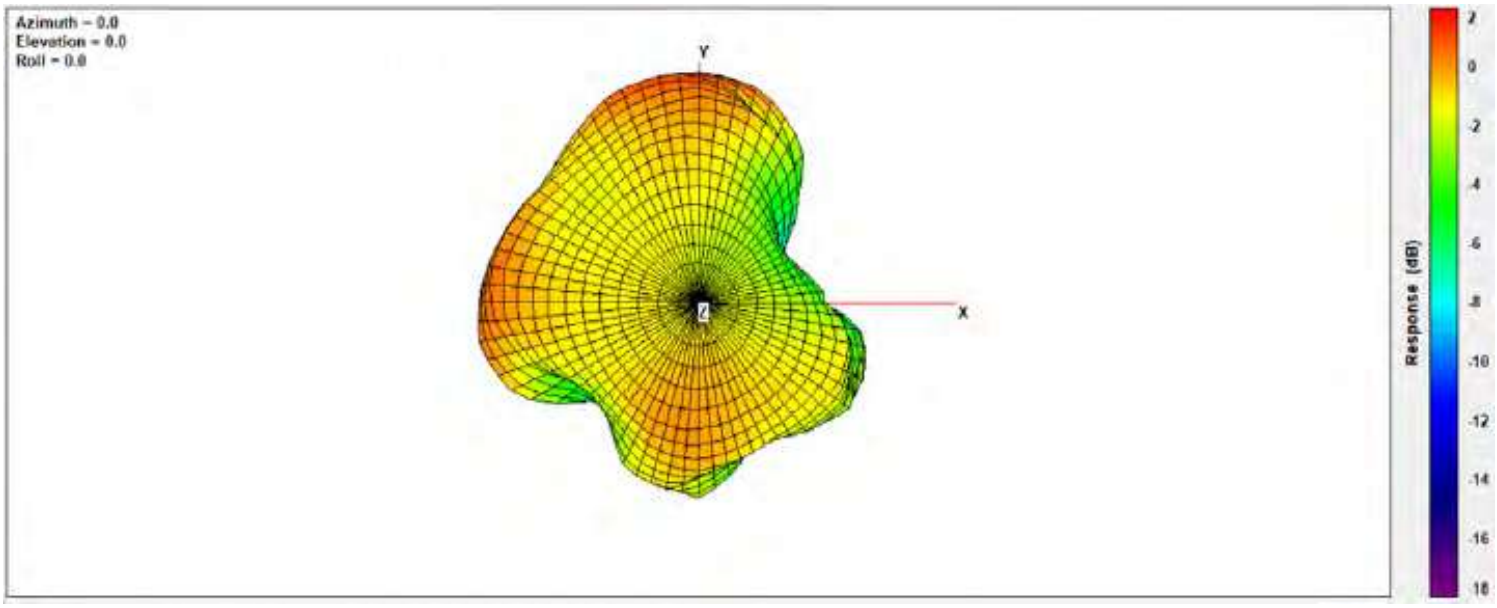
Center Frequency	**772MHz**
Peak Gain W/ Cable loss (dBi)	1.05

777MHz



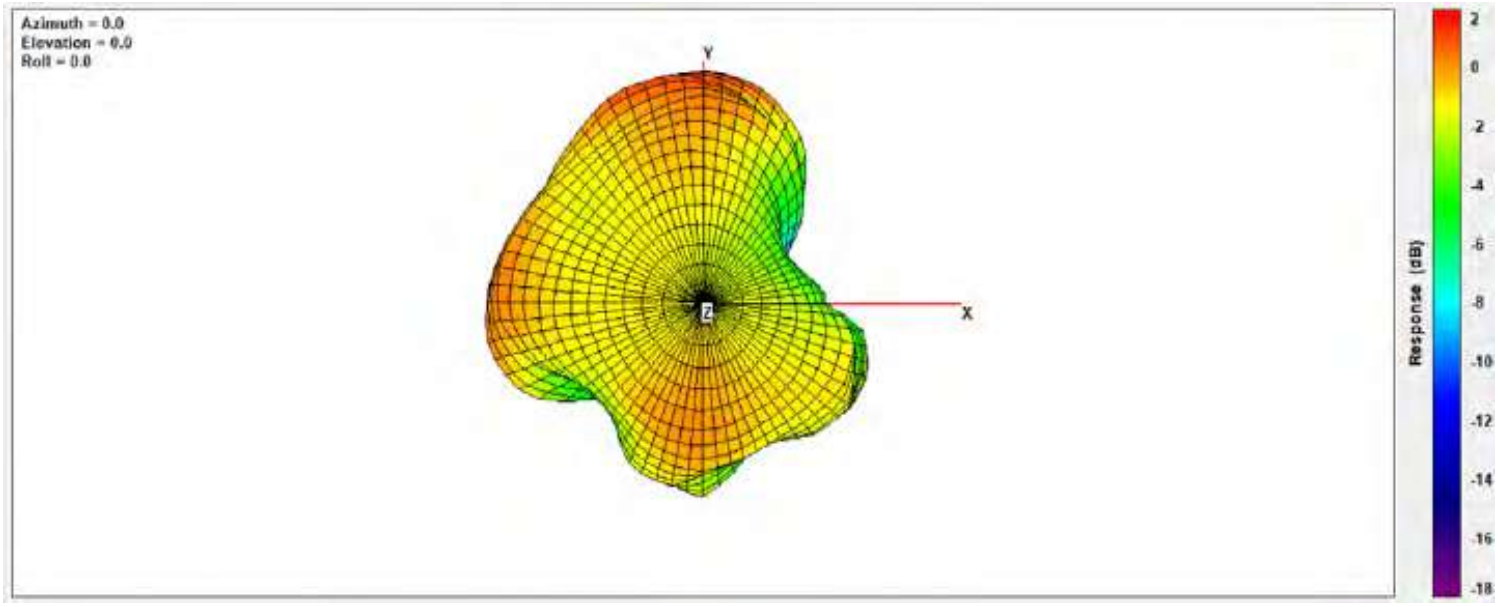
Center Frequency	**777MHz**
Peak Gain W/ Cable loss (dBi)	1.32

782MHz



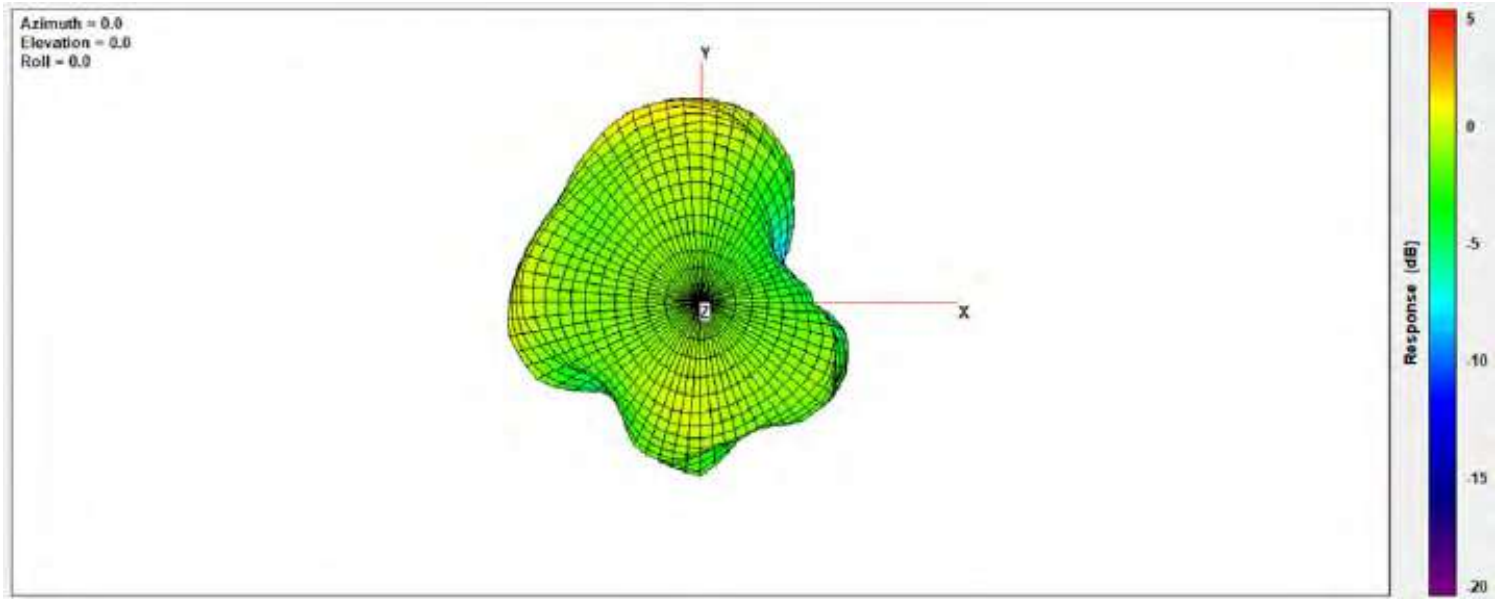
Center Frequency	**782MHz**
Peak Gain W/ Cable loss (dBi)	1.58

787MHz



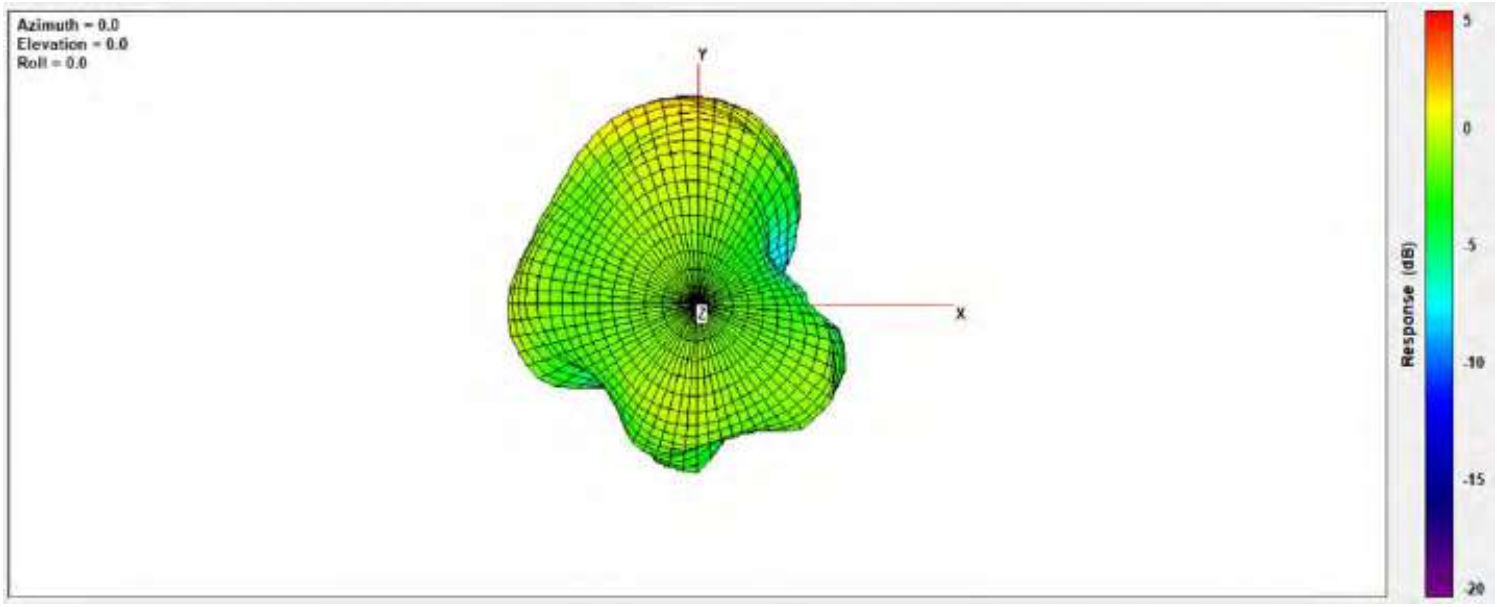
Center Frequency	**787MHz**
Peak Gain W/ Cable loss (dBi)	1.84

791MHz



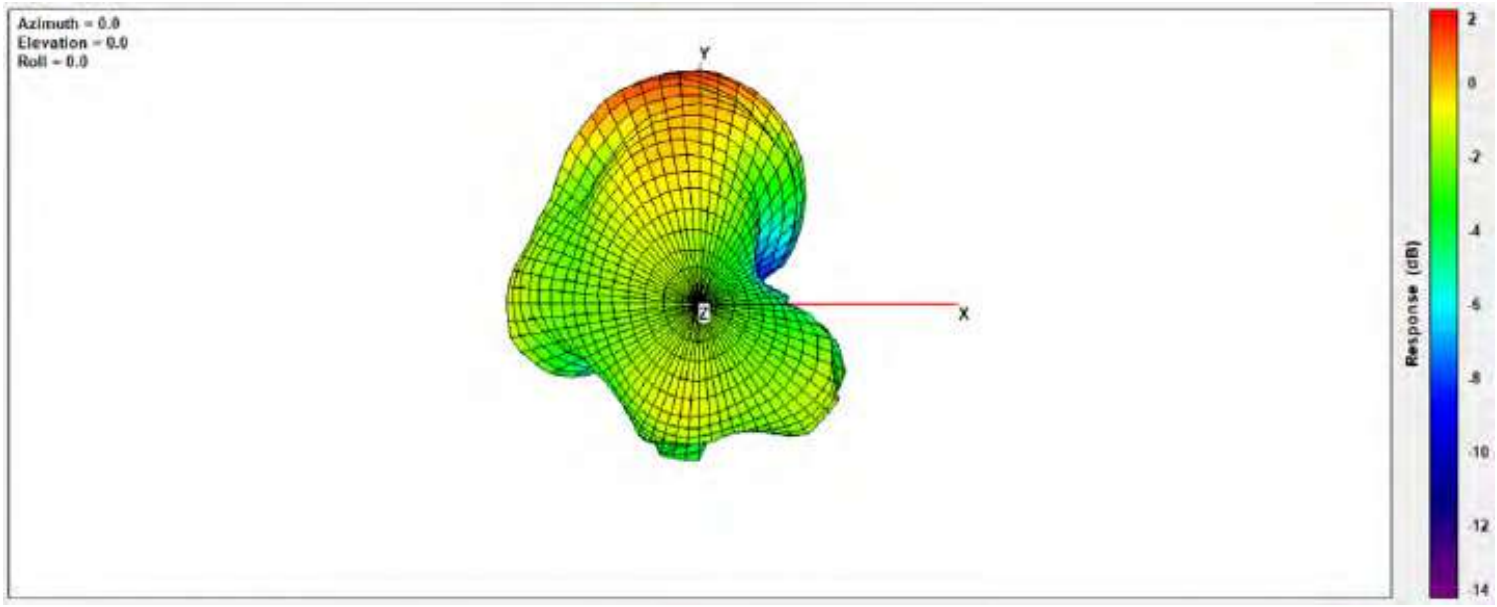
Center Frequency	**791MHz**
Peak Gain W/ Cable loss (dBi)	1.87

806MHz



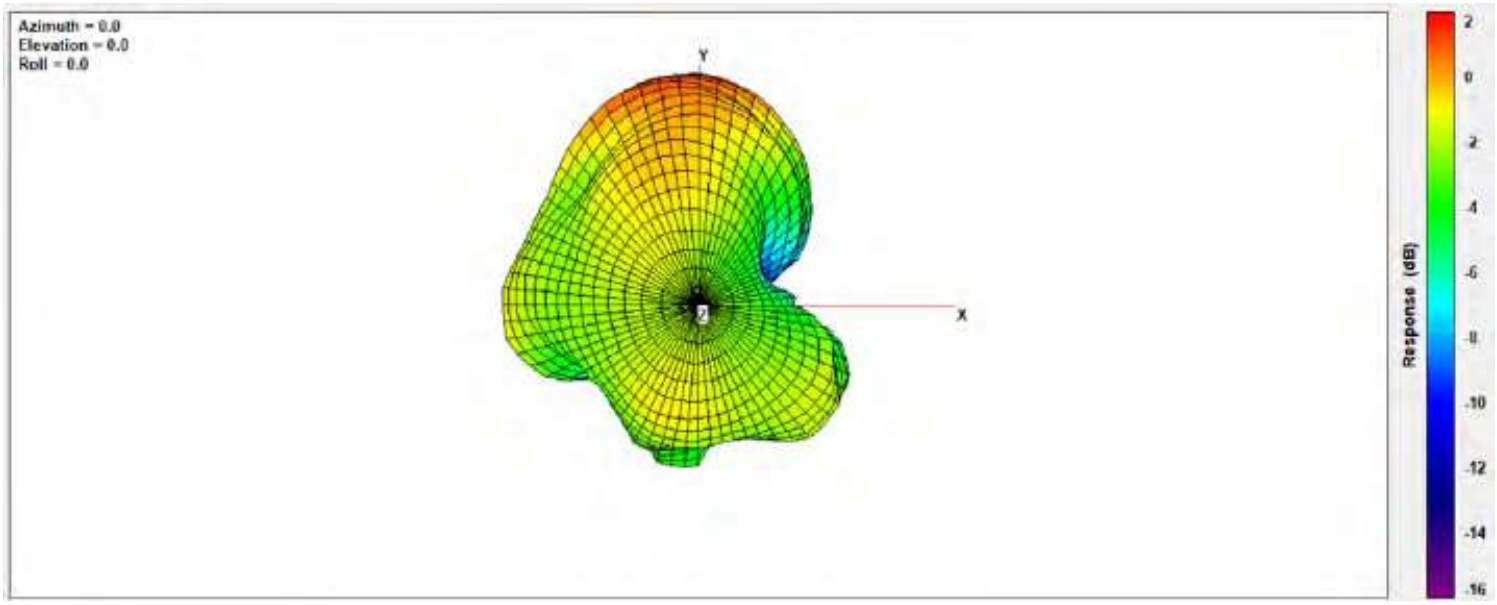
Center Frequency	**806MHz**
Peak Gain W/ Cable loss (dBi)	2.19

821MHz



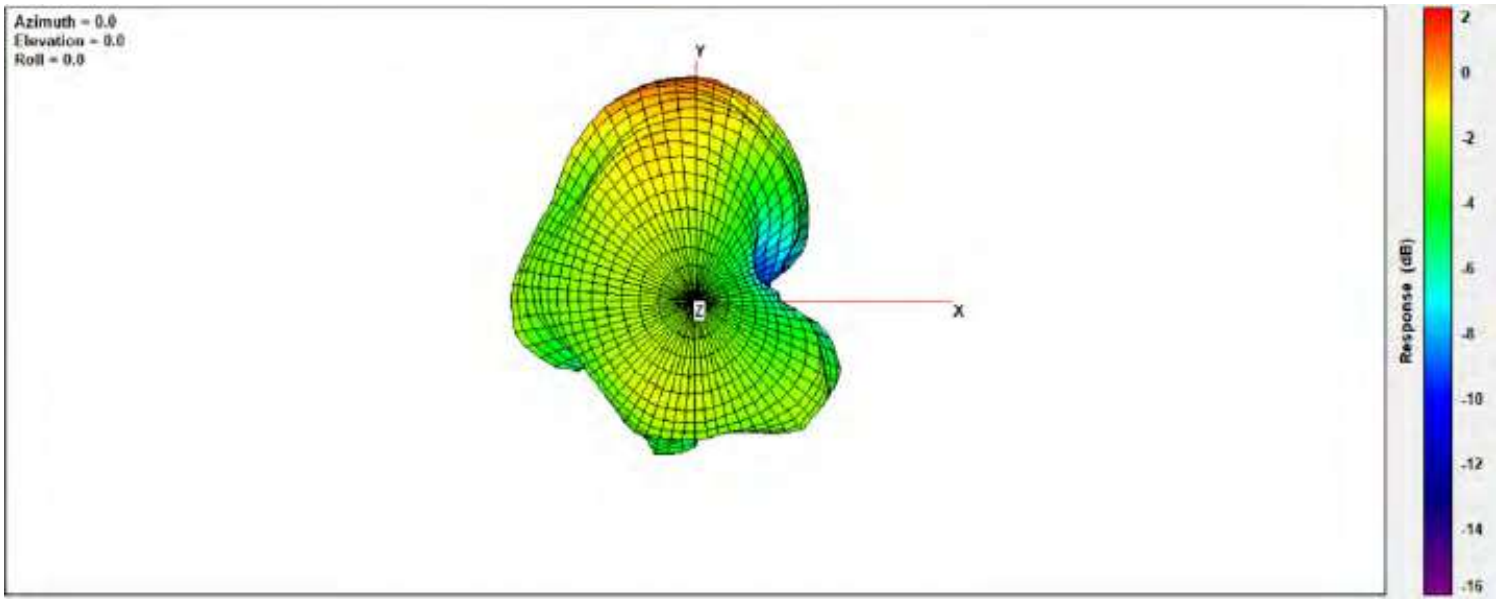
Center Frequency	**821MHz**
Peak Gain W/ Cable loss (dBi)	1.94

824MHz



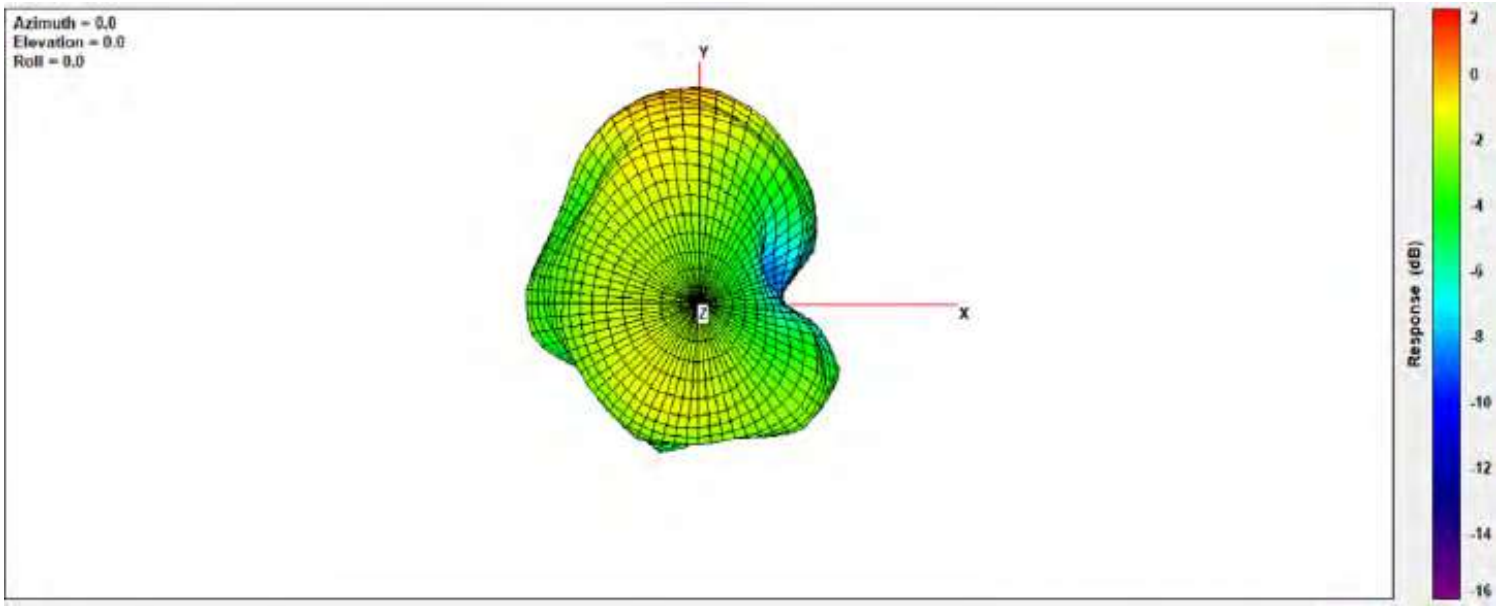
Center Frequency	**824MHz**
Peak Gain W/ Cable loss (dBi)	1.83

836MHz



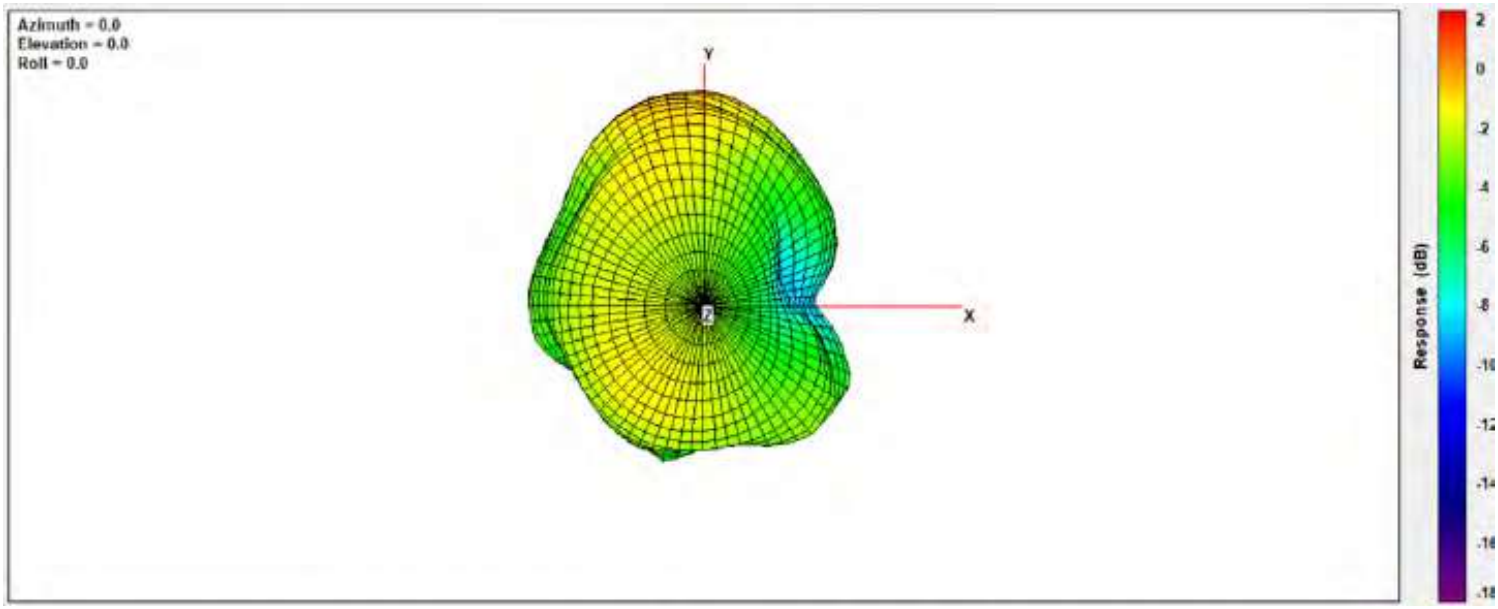
Center Frequency	**836MHz**
Peak Gain W/ Cable loss (dBi)	1.25

849MHz



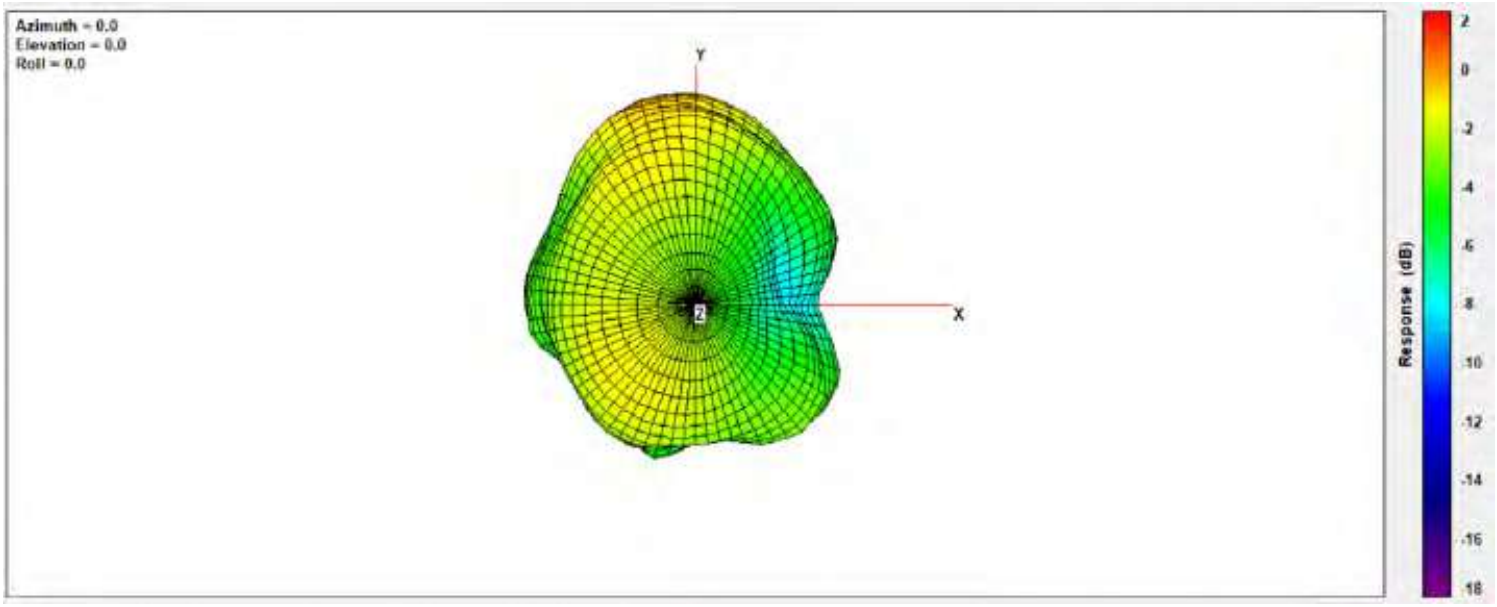
Center Frequency	**849MHz**
Peak Gain W/ Cable loss (dBi)	0.54

862MHz



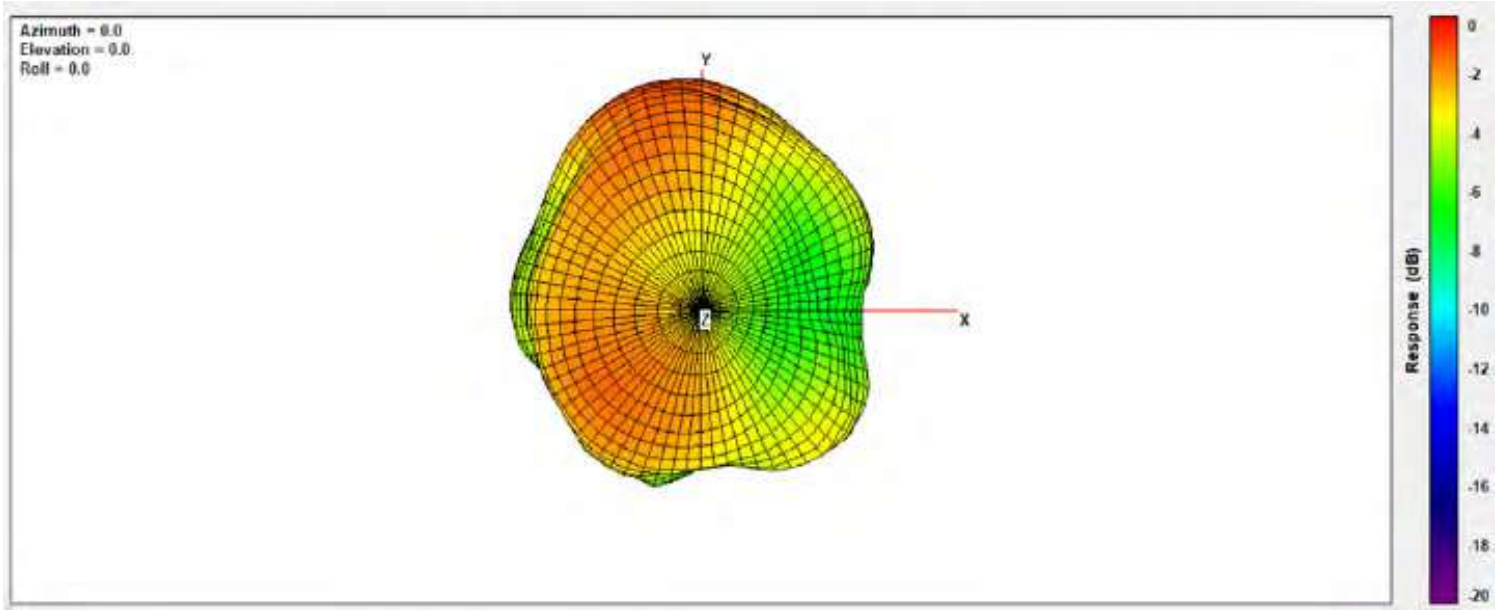
Center Frequency	**862MHz**
Peak Gain W/ Cable loss (dBi)	0.24

869MHz



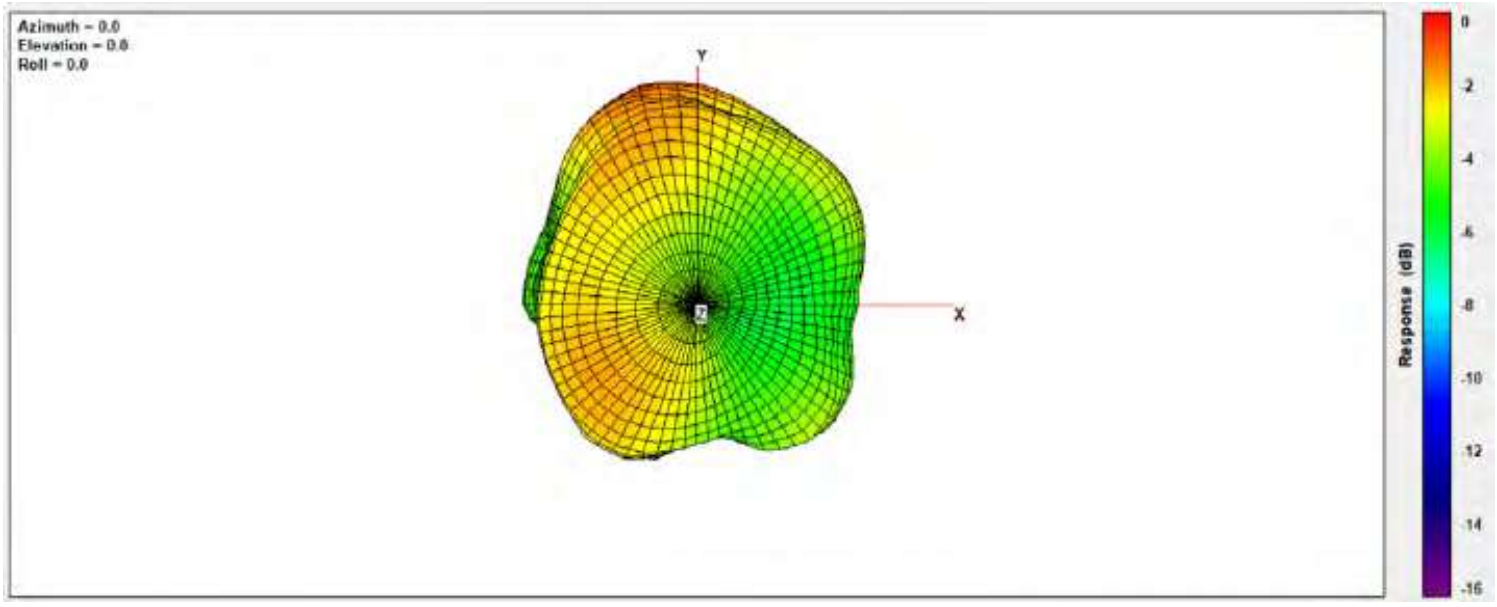
Center Frequency	**869MHz**
Peak Gain W/ Cable loss (dBi)	0.17

880MHz



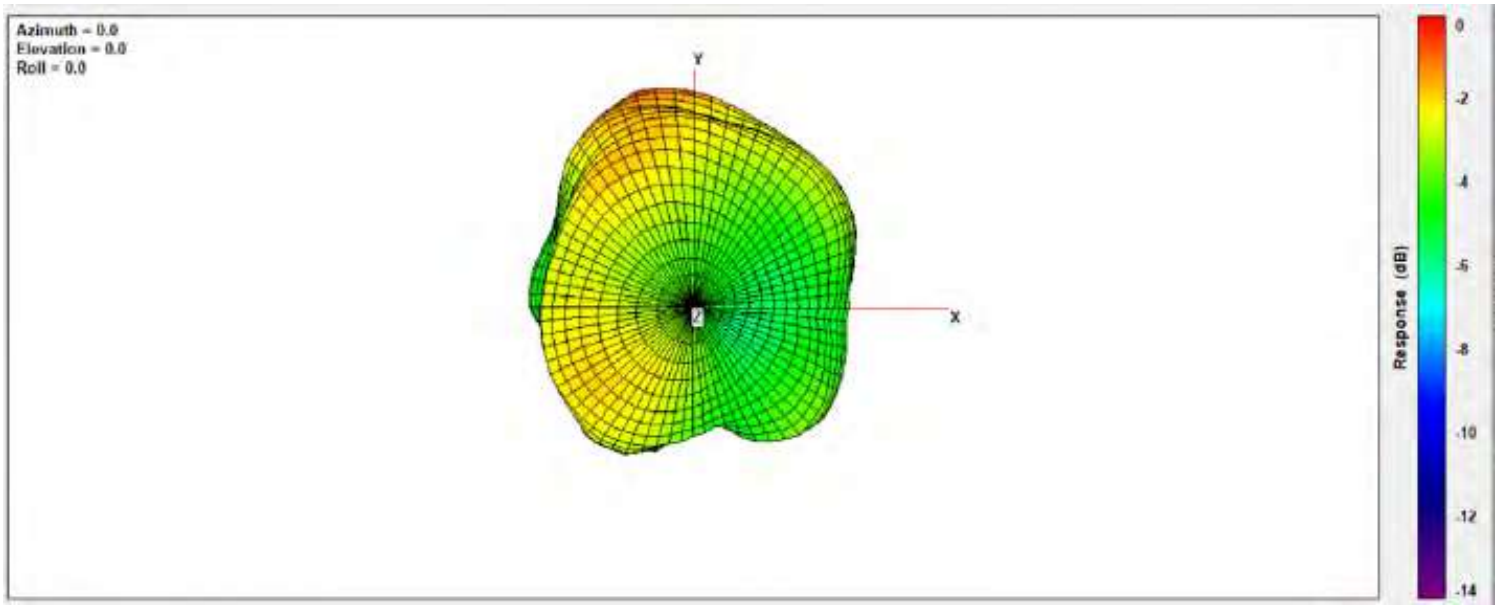
Center Frequency	**880MHz**
Peak Gain W/ Cable loss (dBi)	-0.12

894MHz



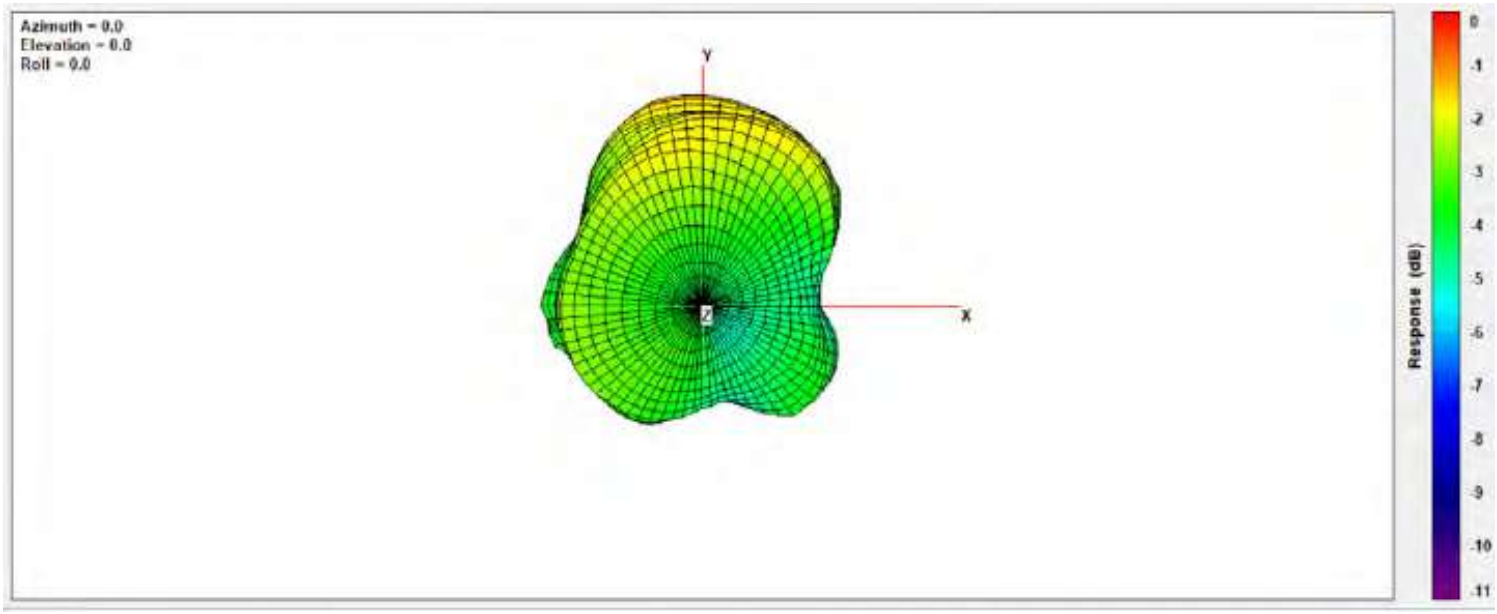
Center Frequency	**894MHz**
Peak Gain W/ Cable loss (dBi)	-0.40

900MHz



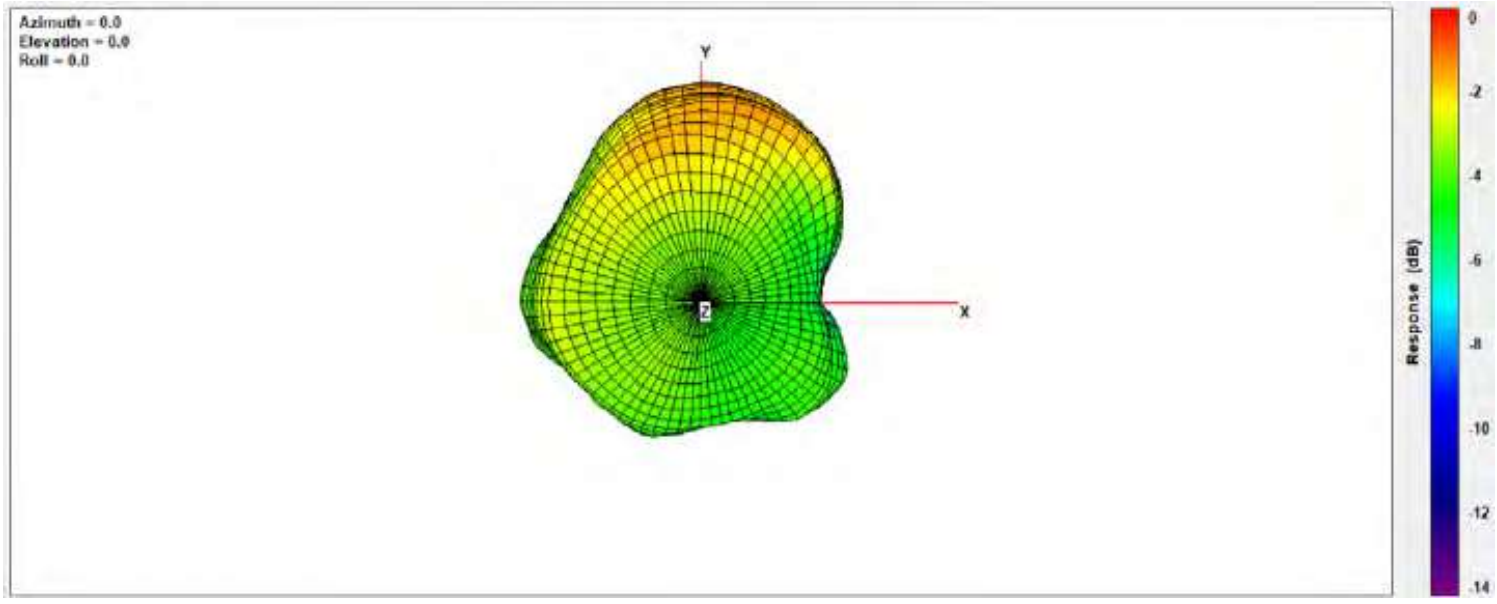
Center Frequency	**900MHz**
Peak Gain W/ Cable loss (dBi)	-0.51

915MHz



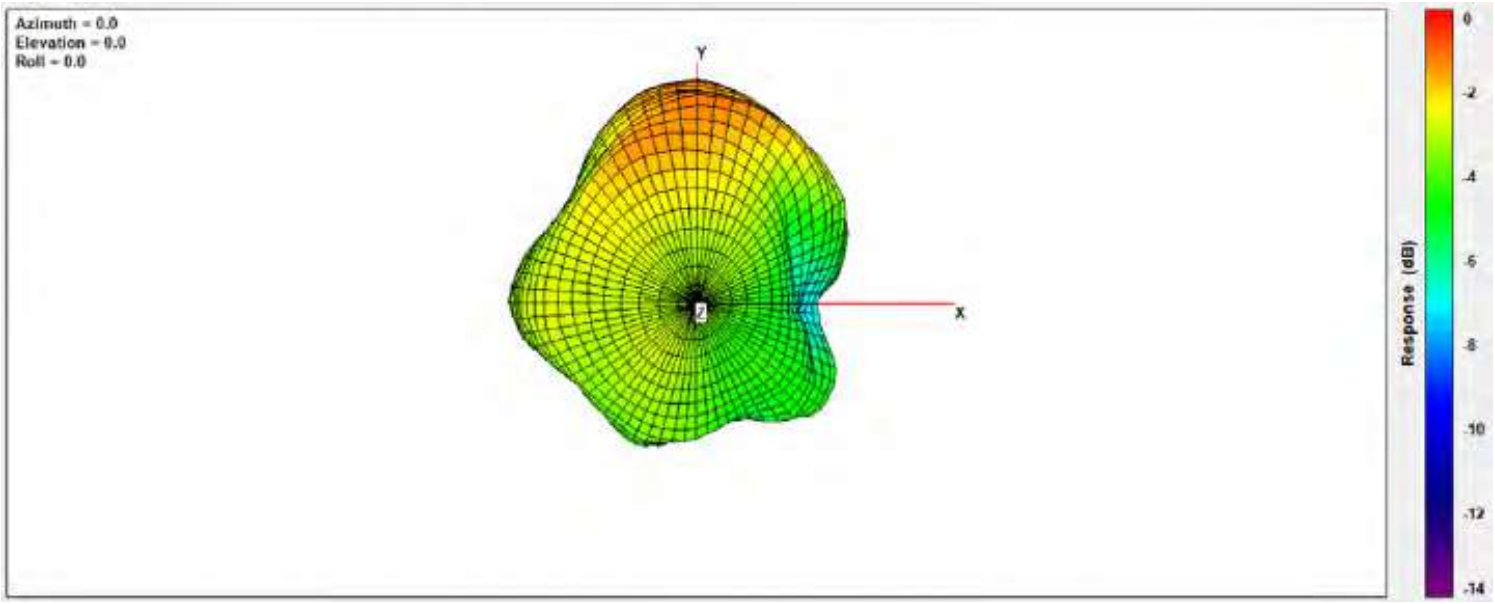
Center Frequency	**915MHz**
Peak Gain W/ Cable loss (dBi)	-0.91

925MHz



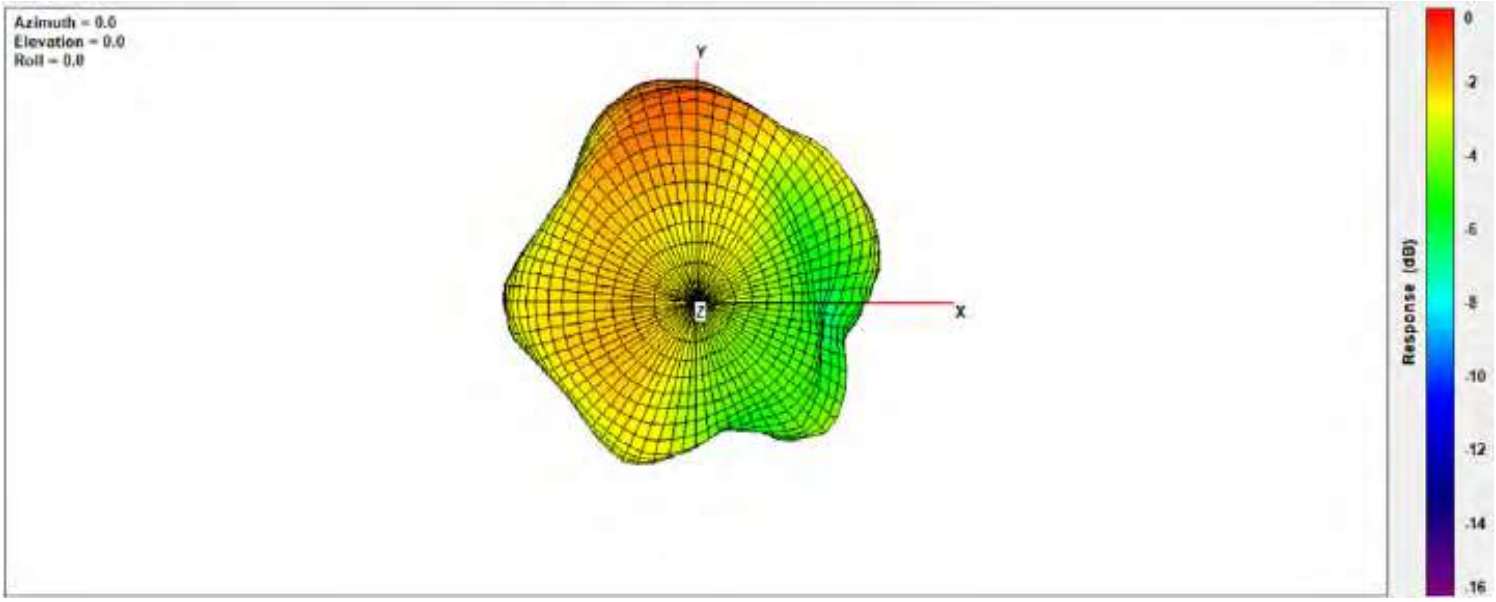
Center Frequency	**925MHz**
Peak Gain W/ Cable loss (dBi)	-0.61

940MHz



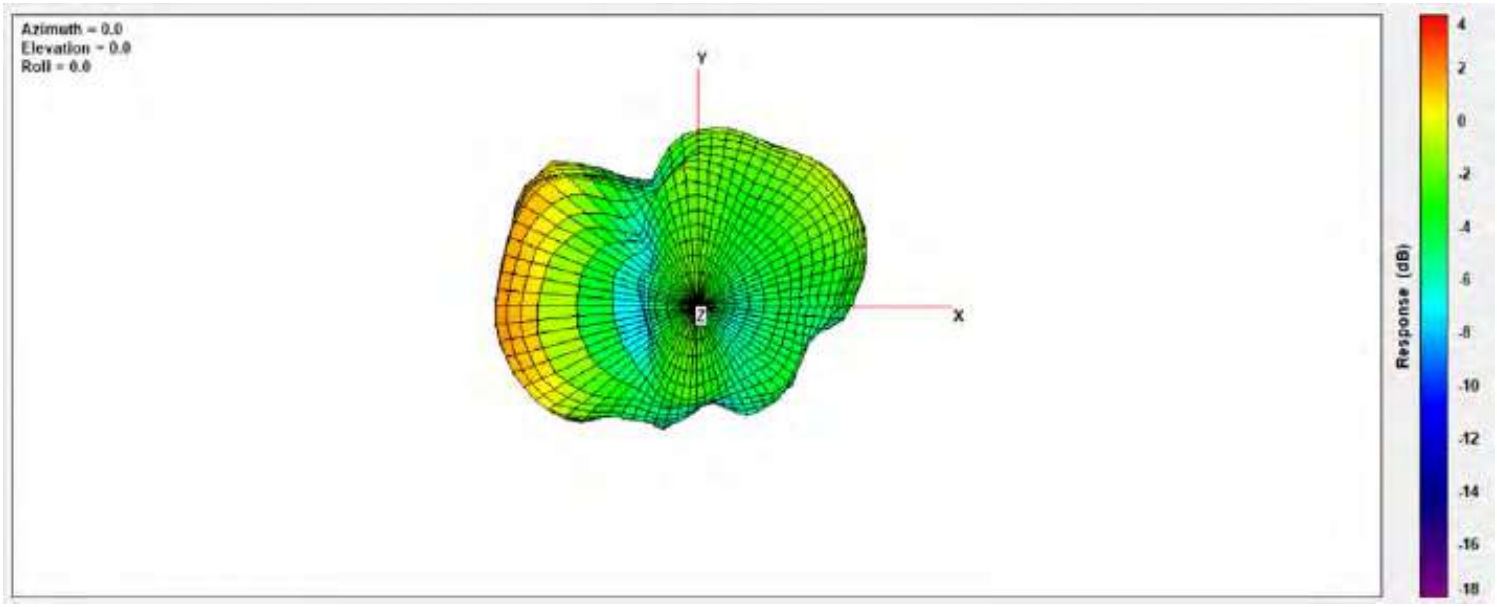
Center Frequency	**940MHz**
Peak Gain W/ Cable loss (dBi)	-0.45

960MHz



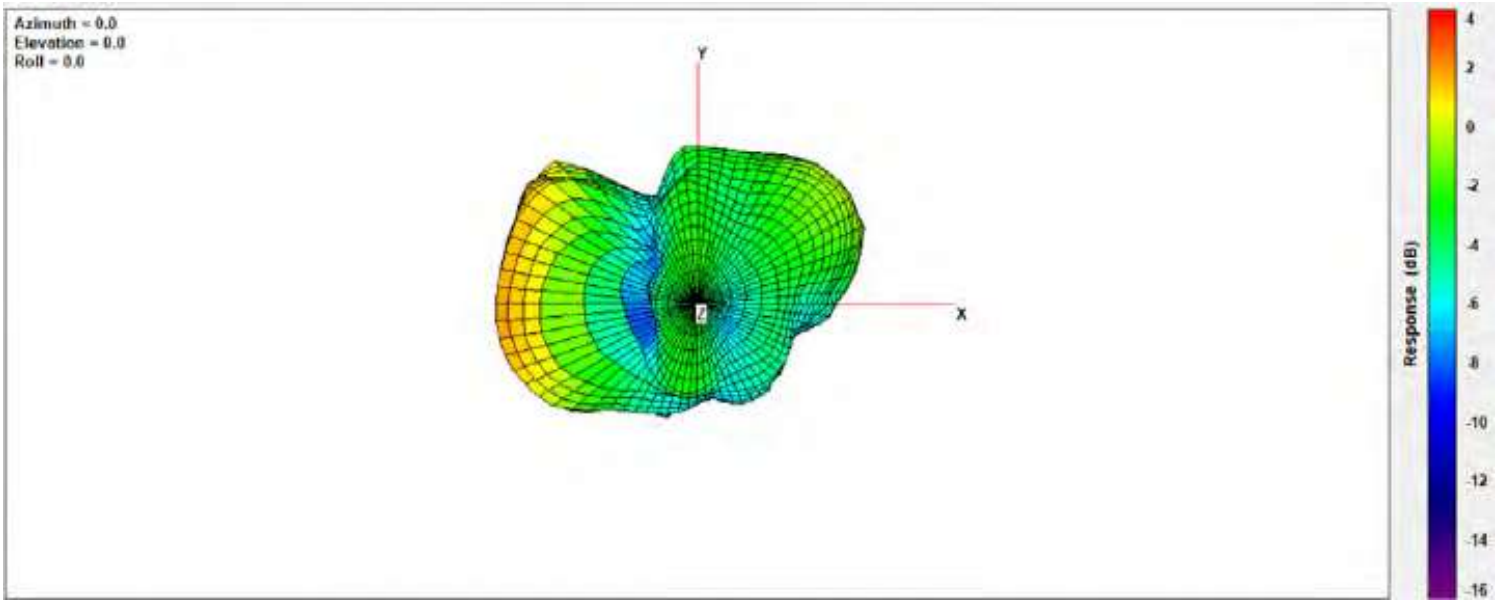
Center Frequency	**960MHz**
Peak Gain W/ Cable loss (dBi)	-0.30

1710MHz



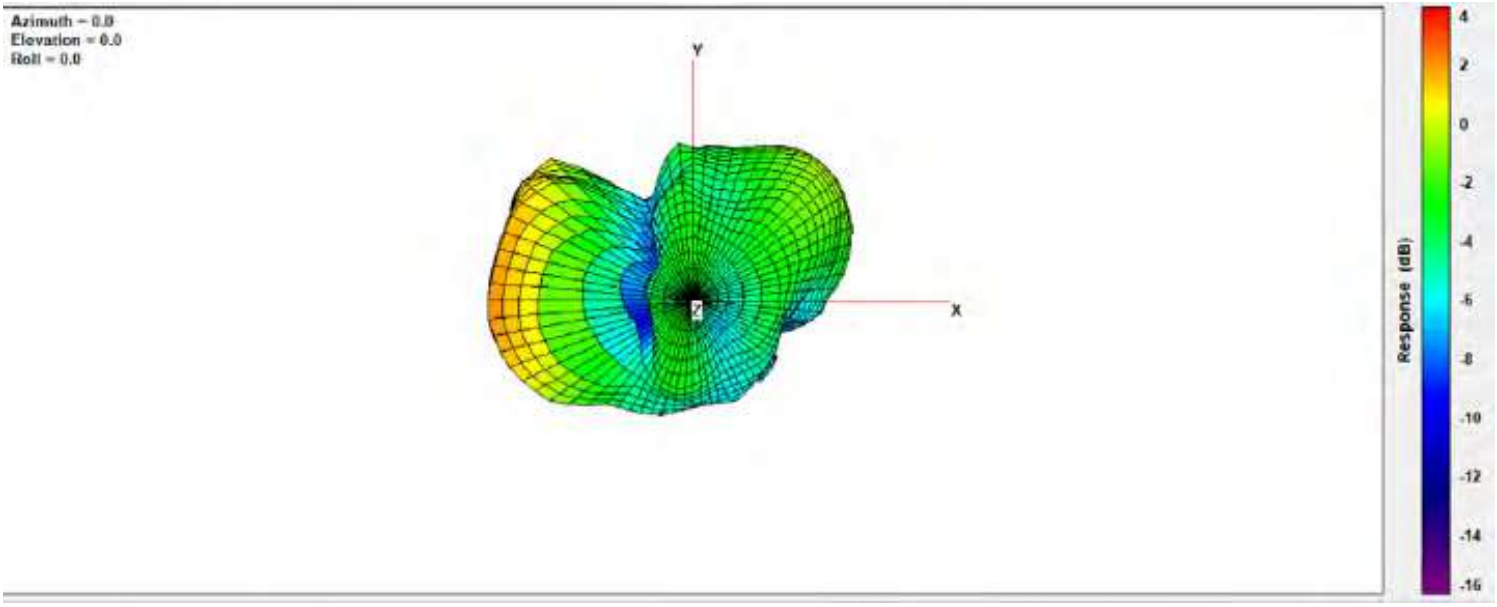
Center Frequency	**1710MHz**
Peak Gain W/ Cable loss (dBi)	2.13

1730MHz



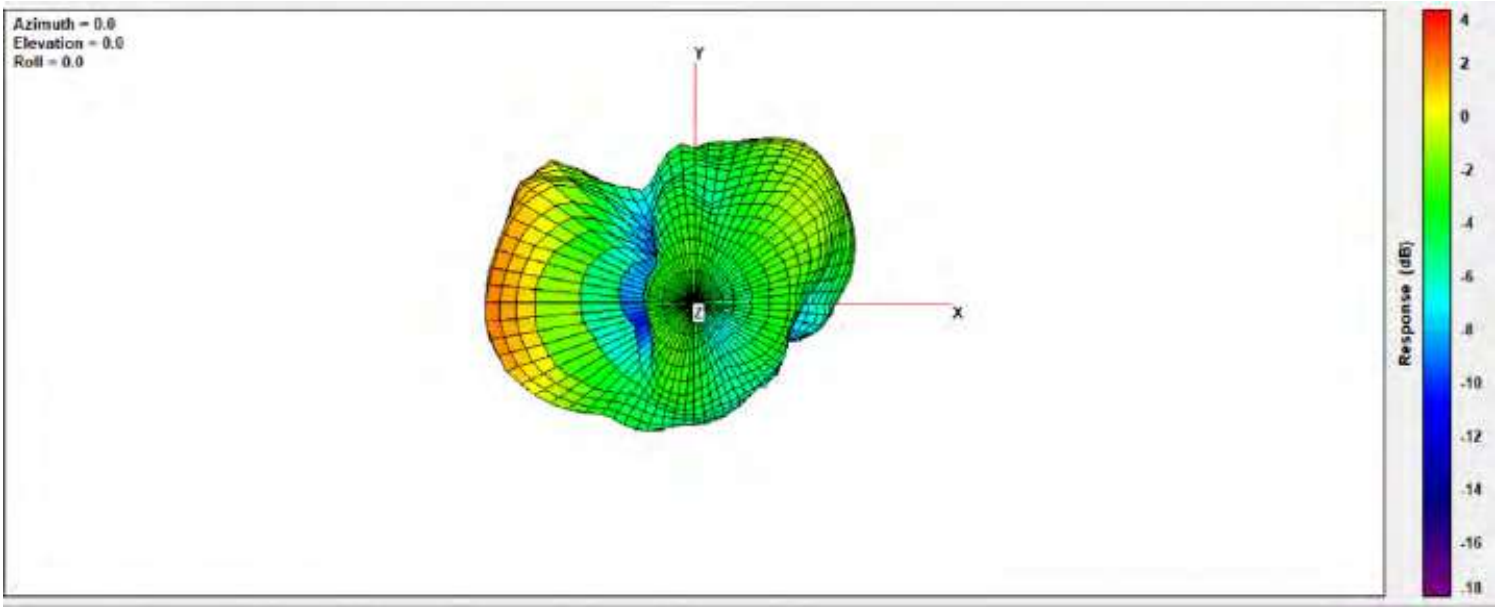
Center Frequency	**1730MHz**
Peak Gain W/ Cable loss (dBi)	2.12

1750MHz



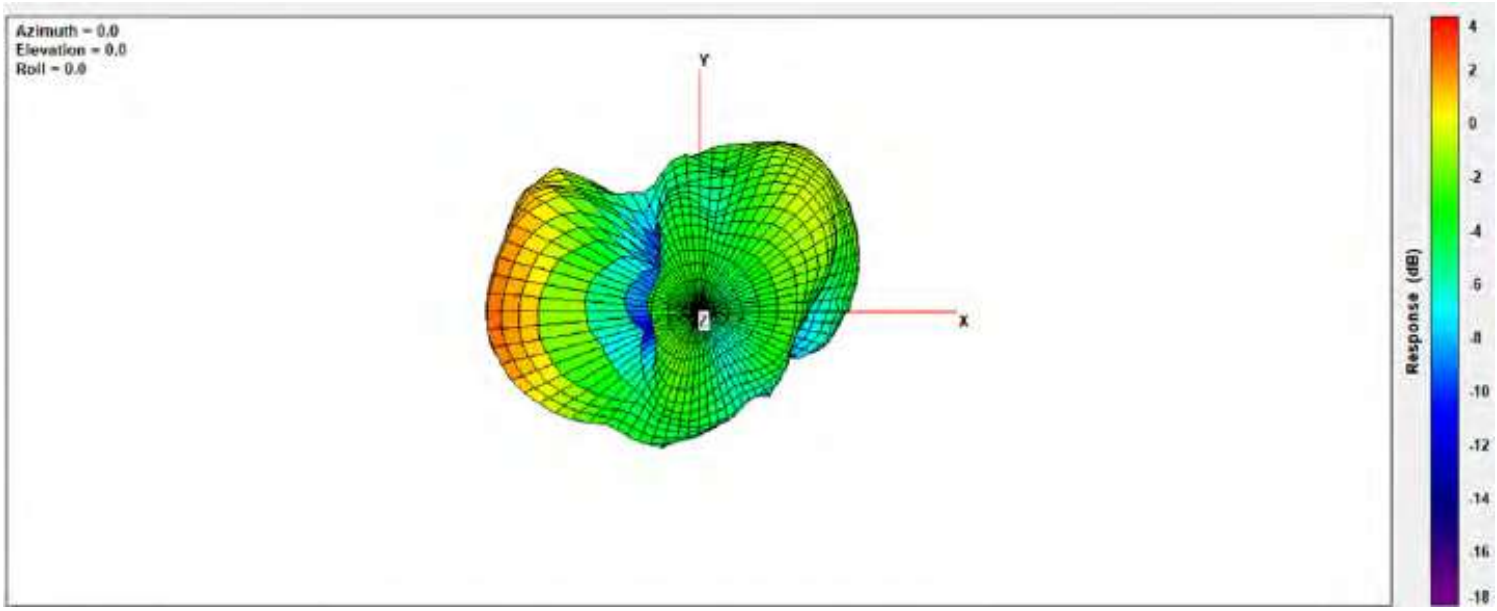
Center Frequency	**1750MHz**
Peak Gain W/ Cable loss (dBi)	2.45

1770MHz



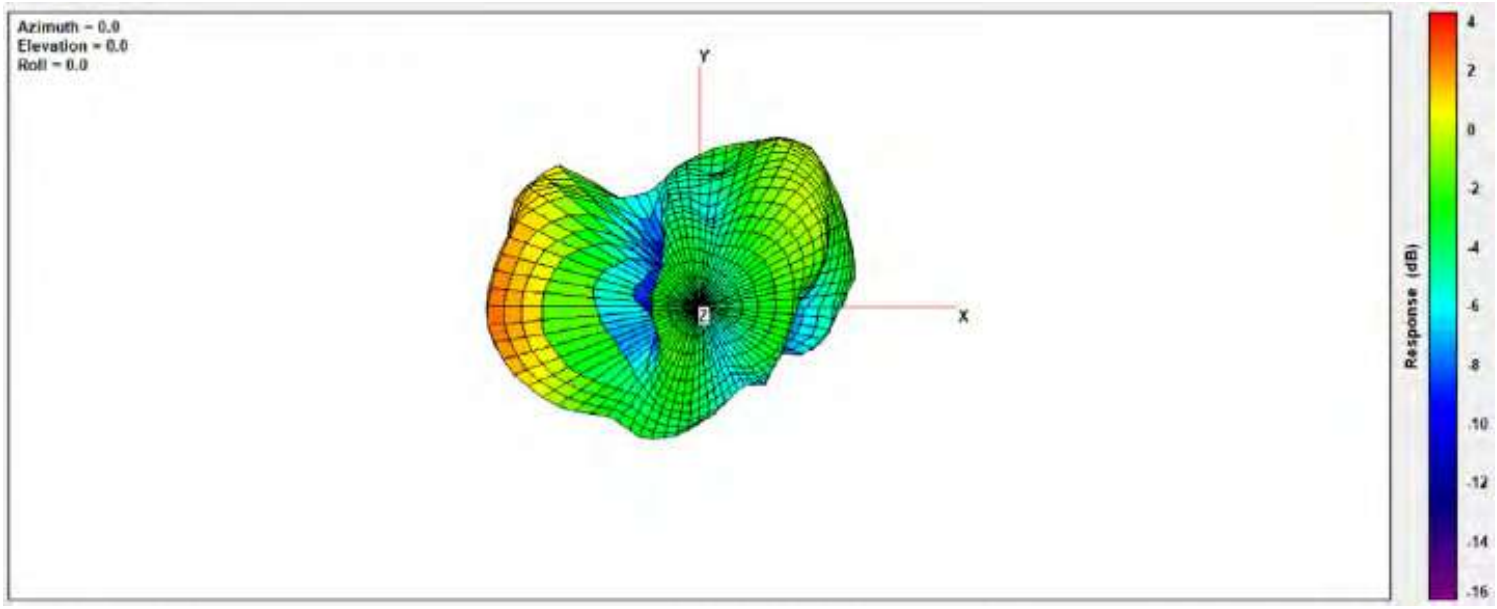
Center Frequency	**1770MHz**
Peak Gain W/ Cable loss (dBi)	2.63

1785MHz



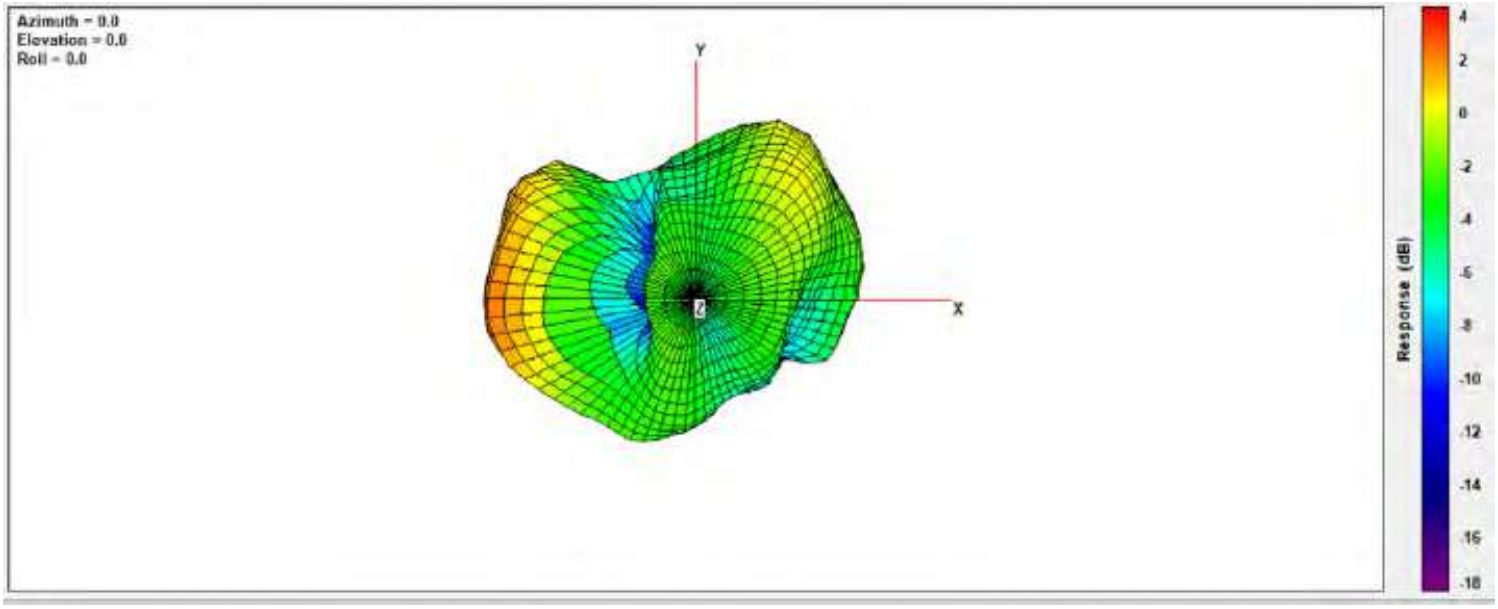
Center Frequency	**1785MHz**
Peak Gain W/ Cable loss (dBi)	2.90

1805MHz



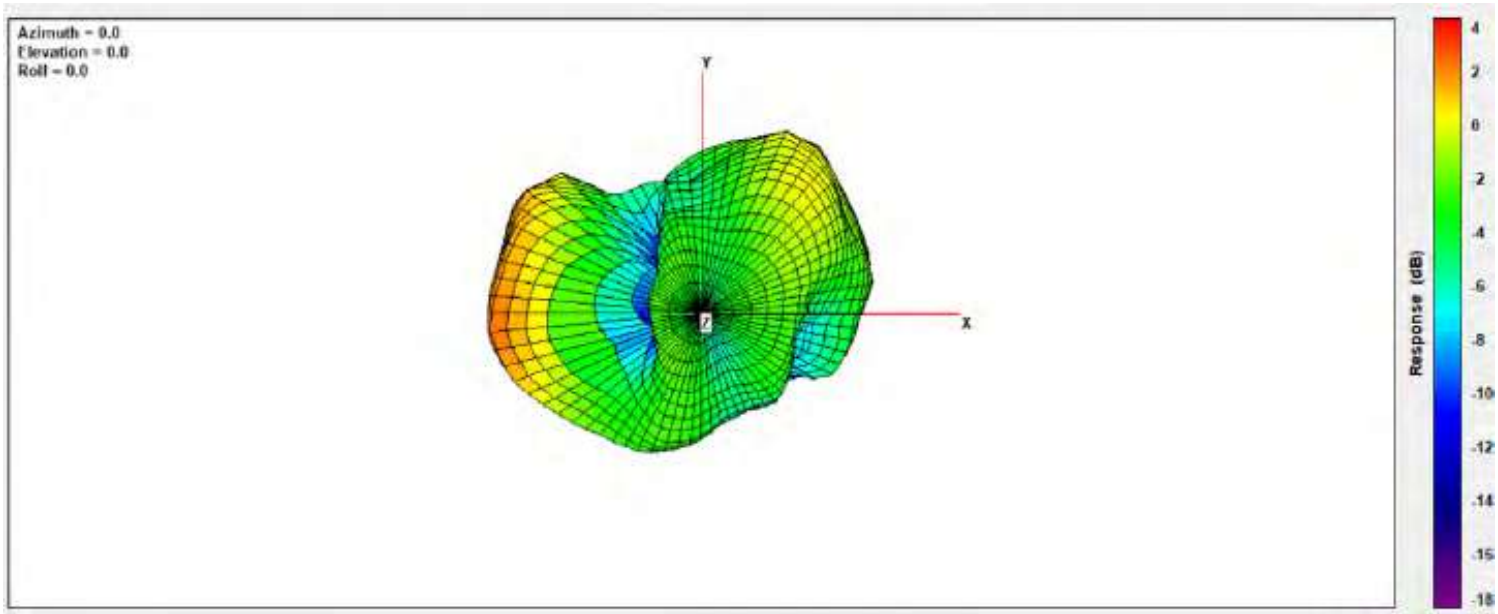
Center Frequency	**1805MHz**
Peak Gain W/ Cable loss (dBi)	3.01

1840MHz



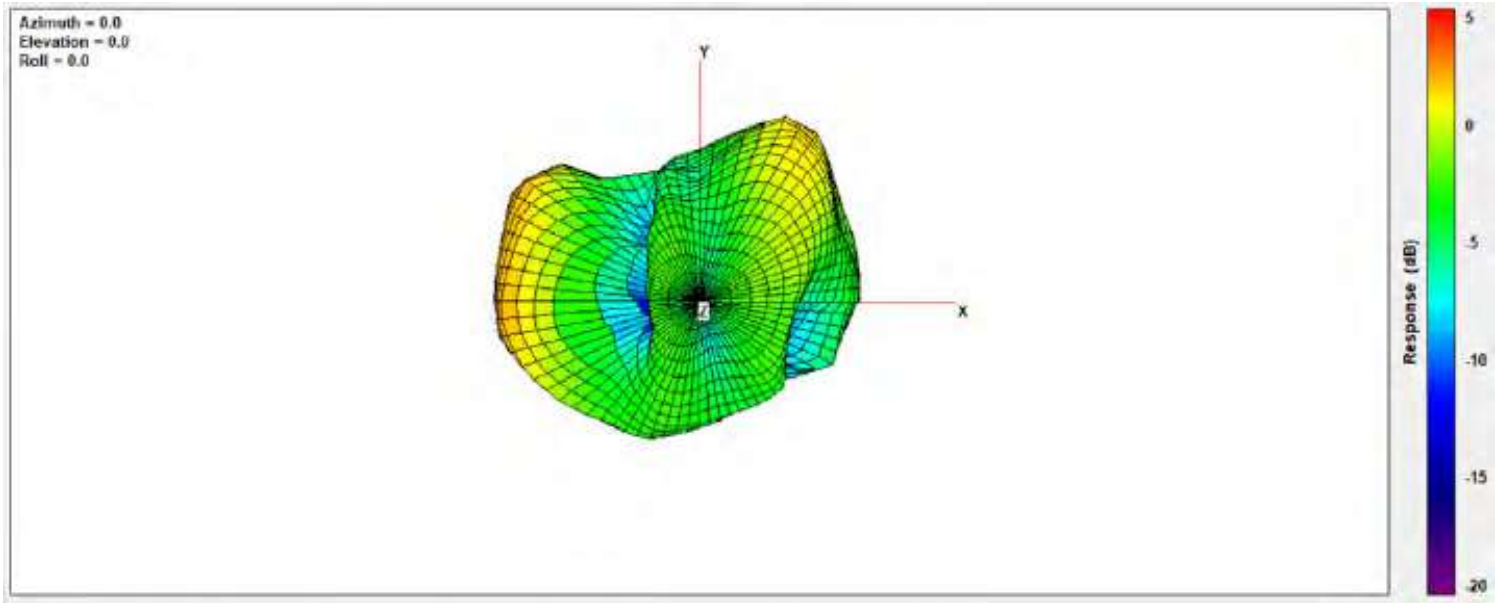
Center Frequency	**1840MHz**
Peak Gain W/ Cable loss (dBi)	2.74

1850MHz



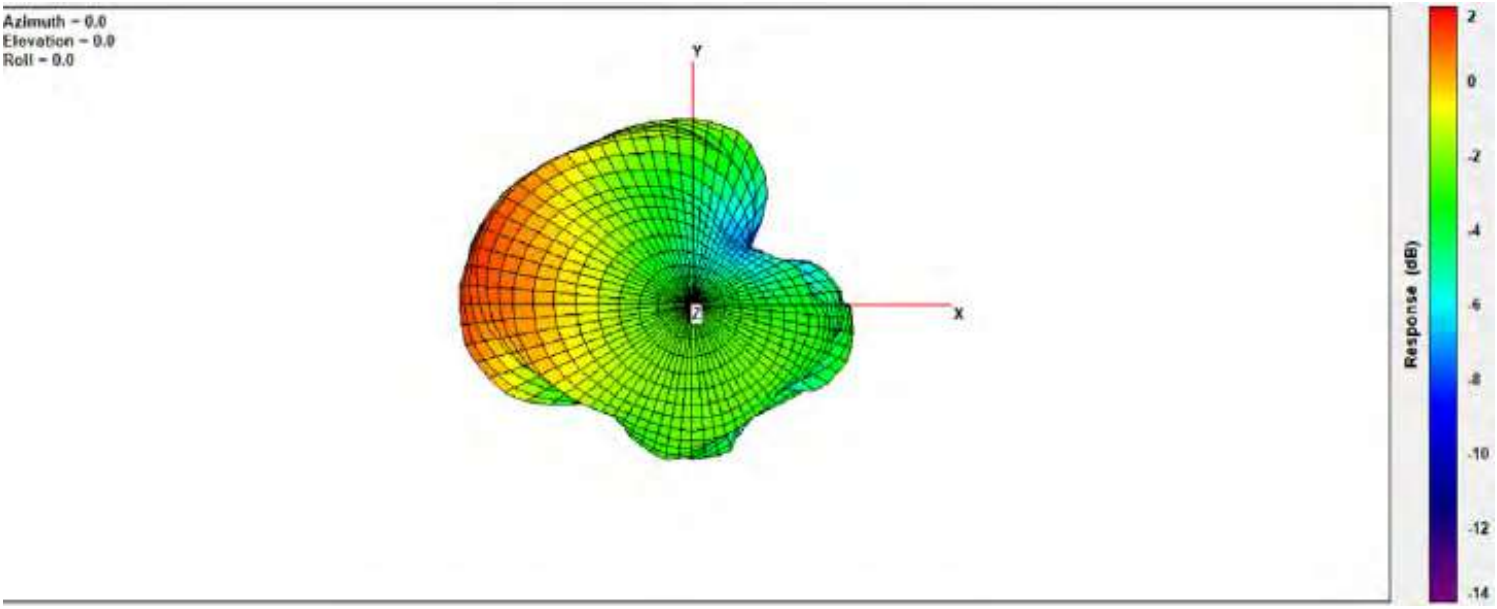
Center Frequency	**1850MHz**
Peak Gain W/ Cable loss (dBi)	2.83

1880MHz



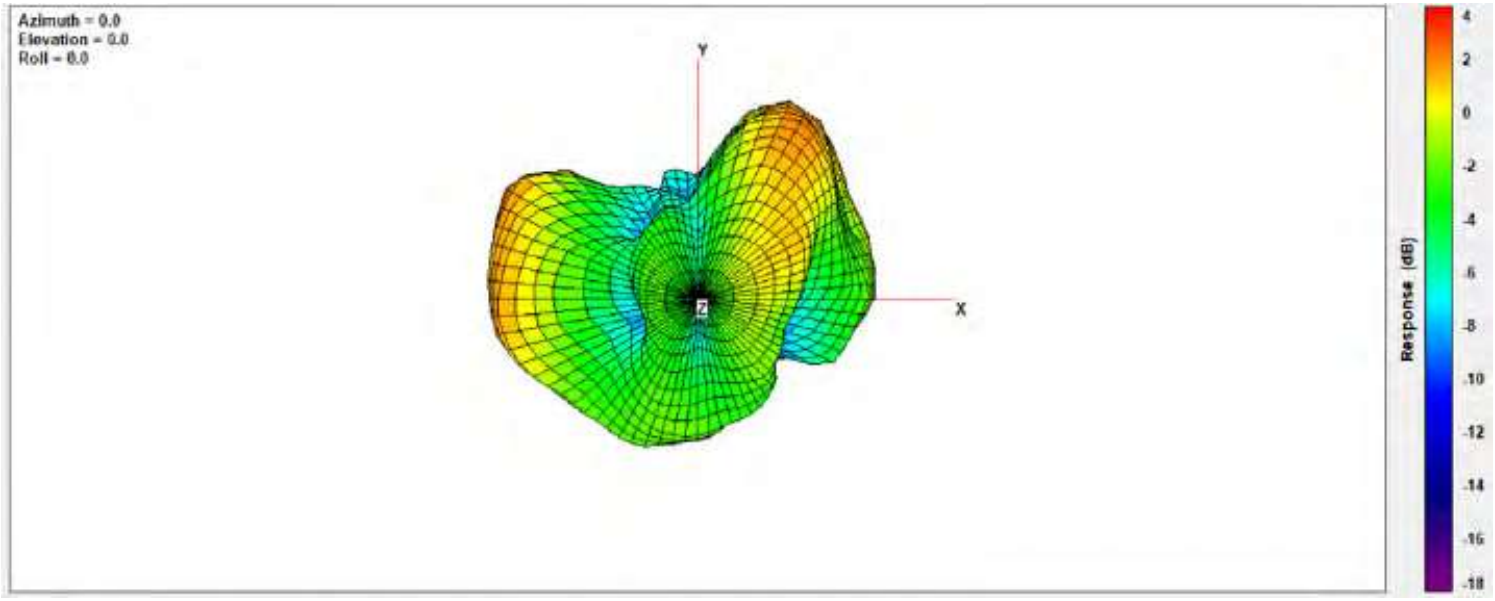
Center Frequency	**1880MHz**
Peak Gain W/ Cable loss (dBi)	3.07

1910MHz



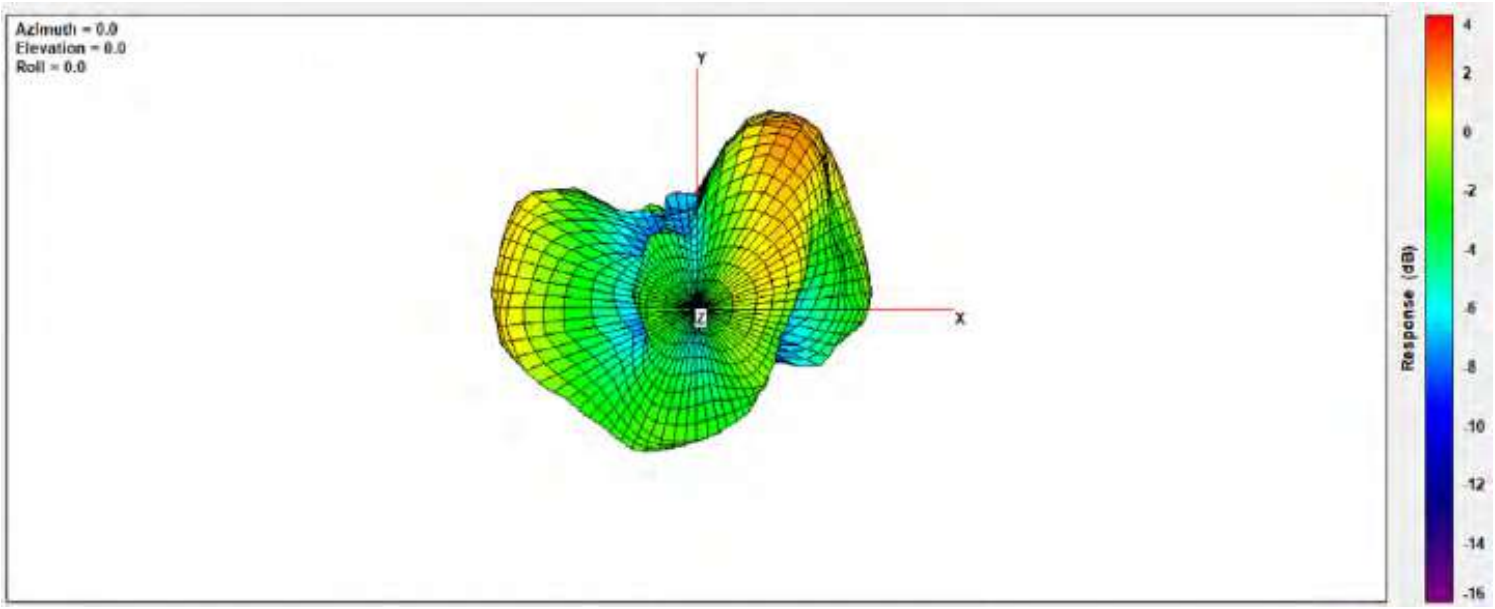
Center Frequency	**1910MHz**
Peak Gain W/ Cable loss (dBi)	3.07

1920MHz



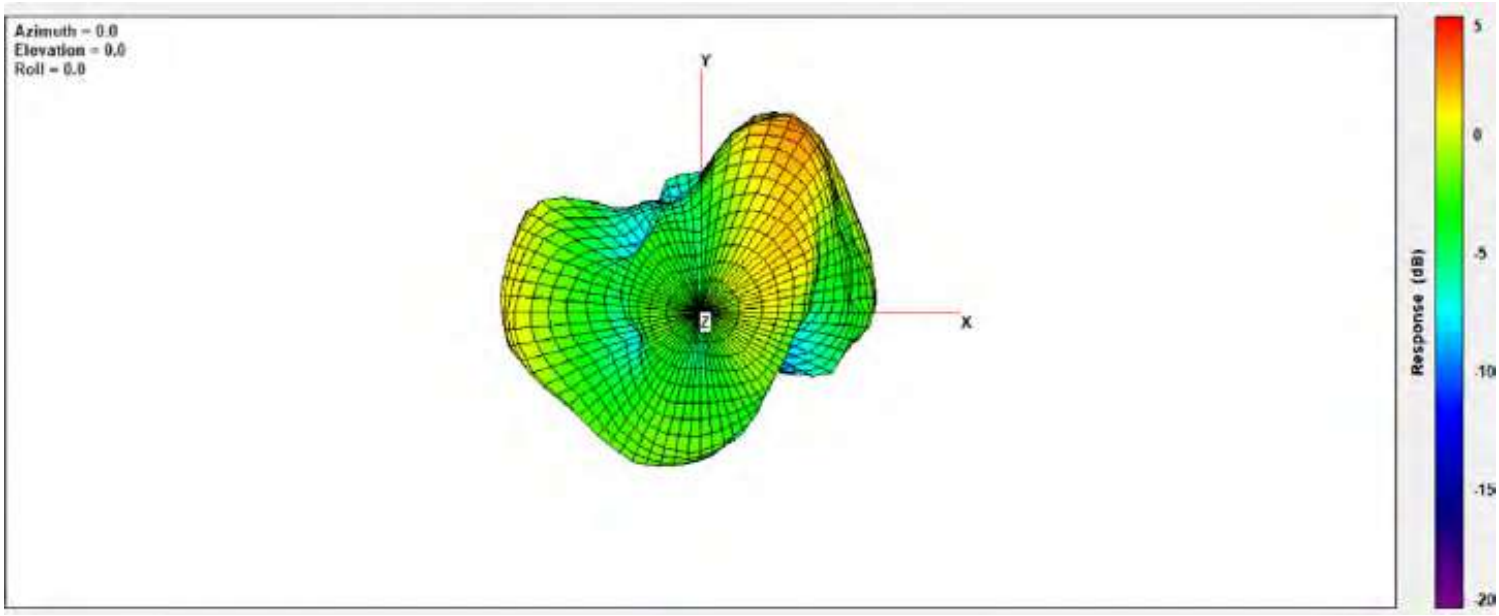
Center Frequency	**1920MHz**
Peak Gain W/ Cable loss (dBi)	3.25

1930MHz



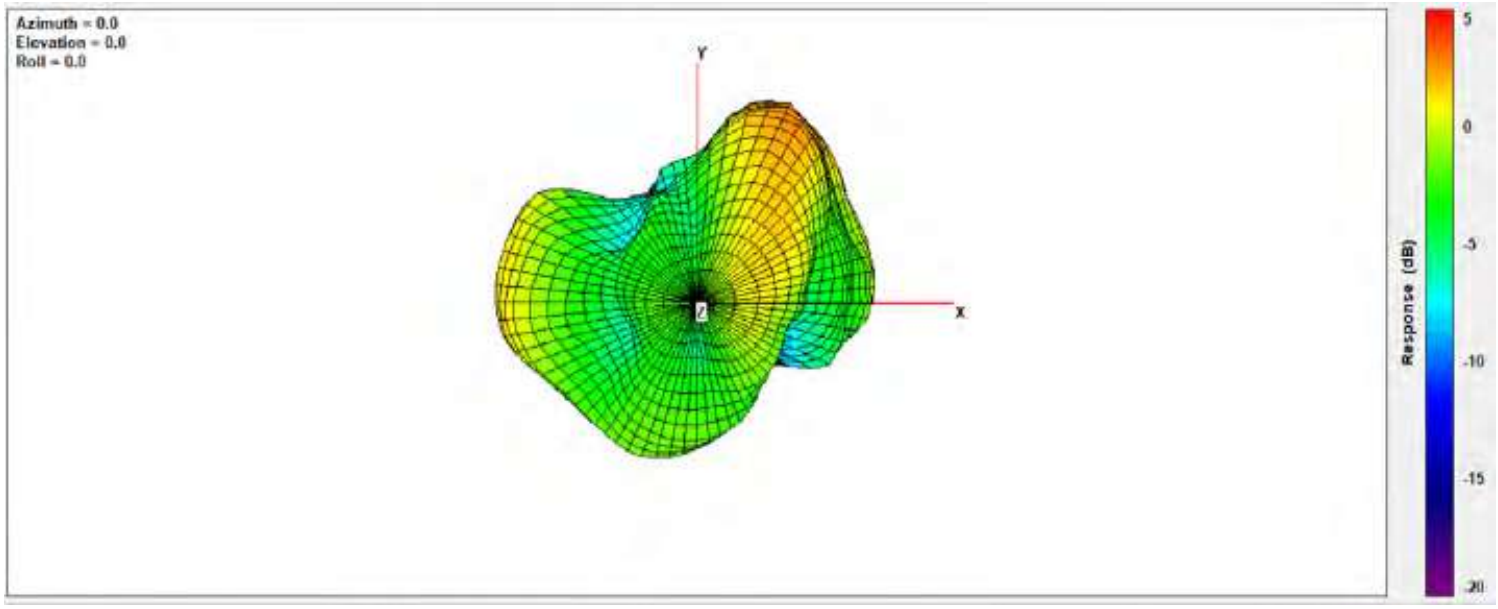
Center Frequency	**1930MHz**
Peak Gain W/ Cable loss (dBi)	3.40

1950MHz



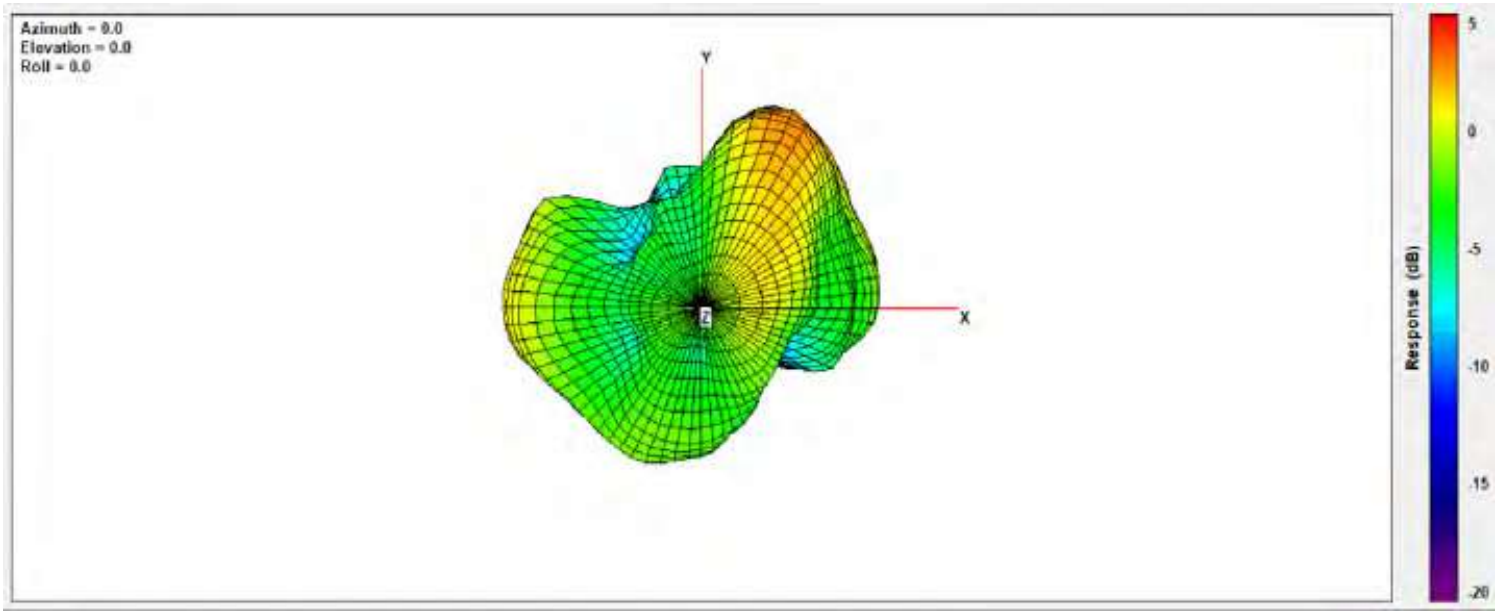
Center Frequency	**1950MHz**
Peak Gain W/ Cable loss (dBi)	4.08

1960MHz



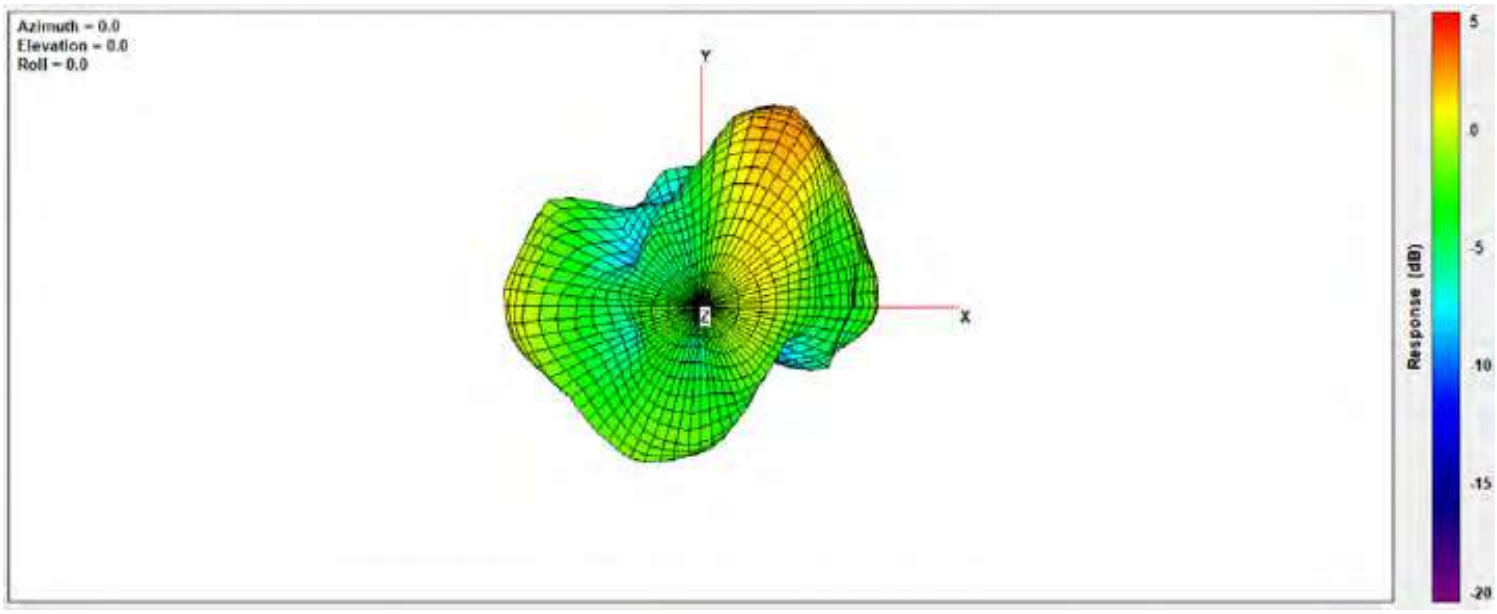
Center Frequency	**1960MHz**
Peak Gain W/ Cable loss (dBi)	4.54

1980MHz



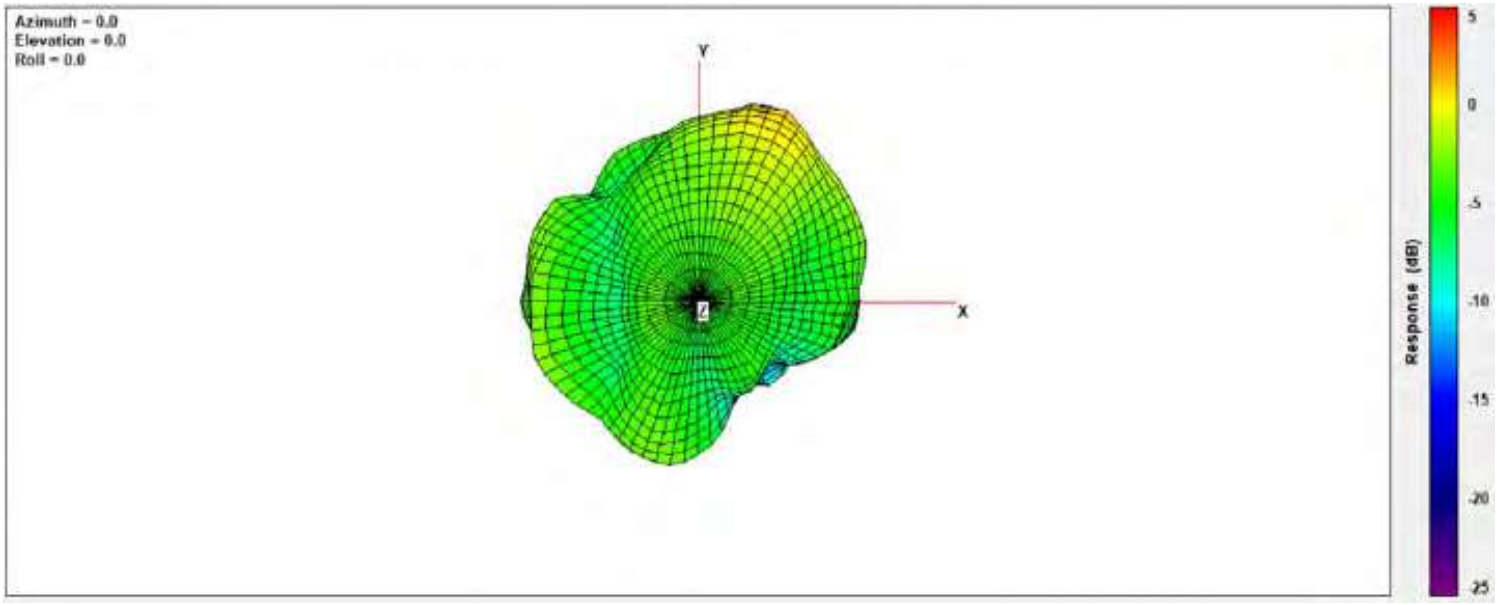
Center Frequency	**1980MHz**
Peak Gain W/ Cable loss (dBi)	4.56

1995MHz



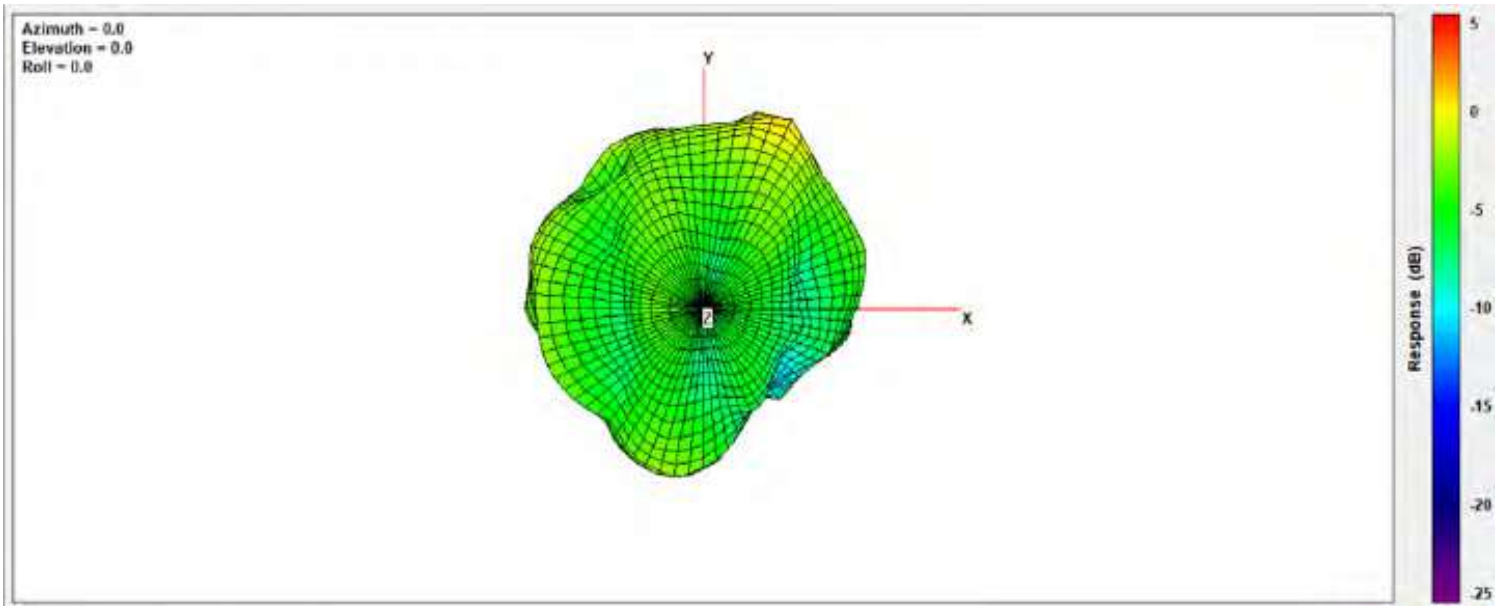
Center Frequency	**1995MHz**
Peak Gain W/ Cable loss (dBi)	4.62

2010MHz



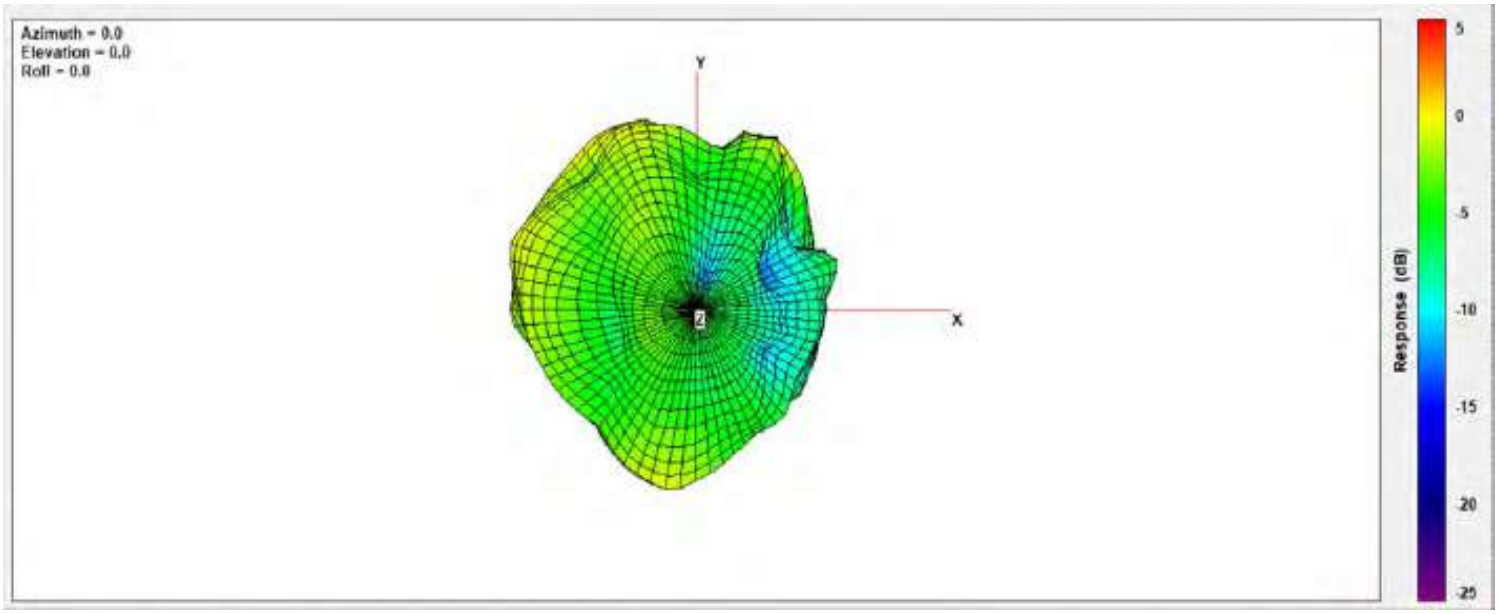
Center Frequency	**2010MHz**
Peak Gain W/ Cable loss (dBi)	3.61

2140MHz



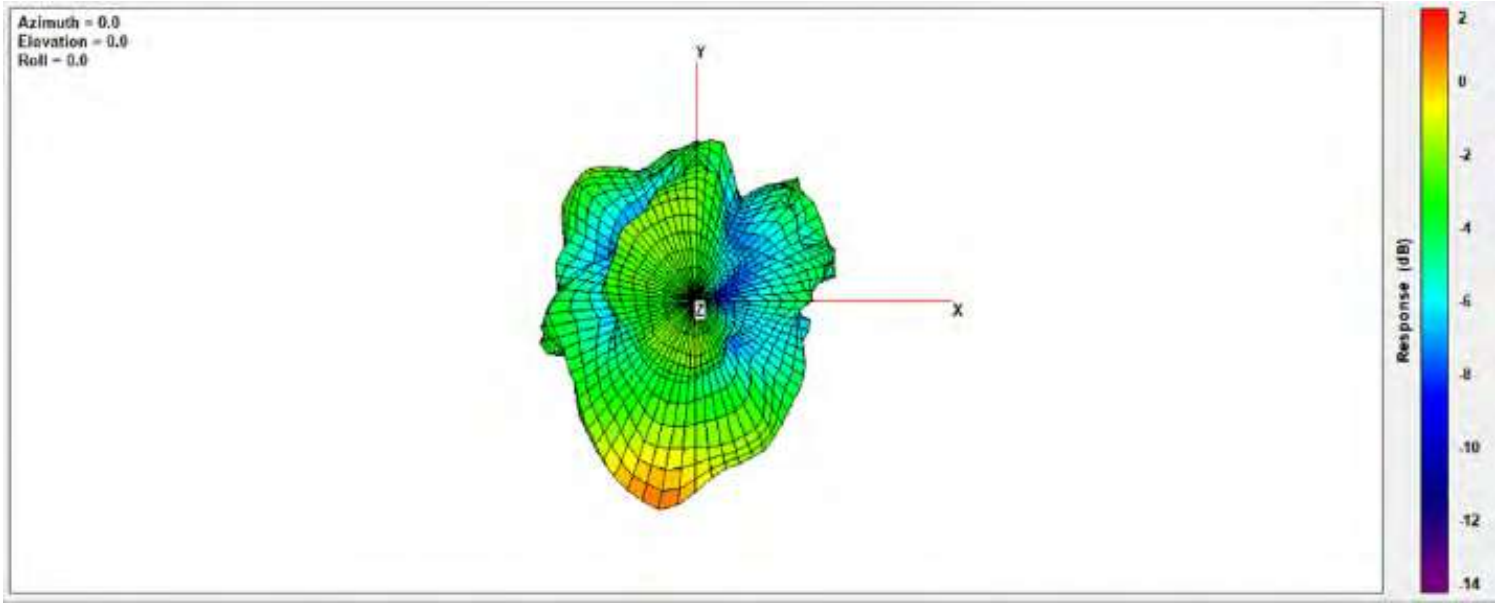
Center Frequency	**2140MHz**
Peak Gain W/ Cable loss (dBi)	3.51

2170MHz



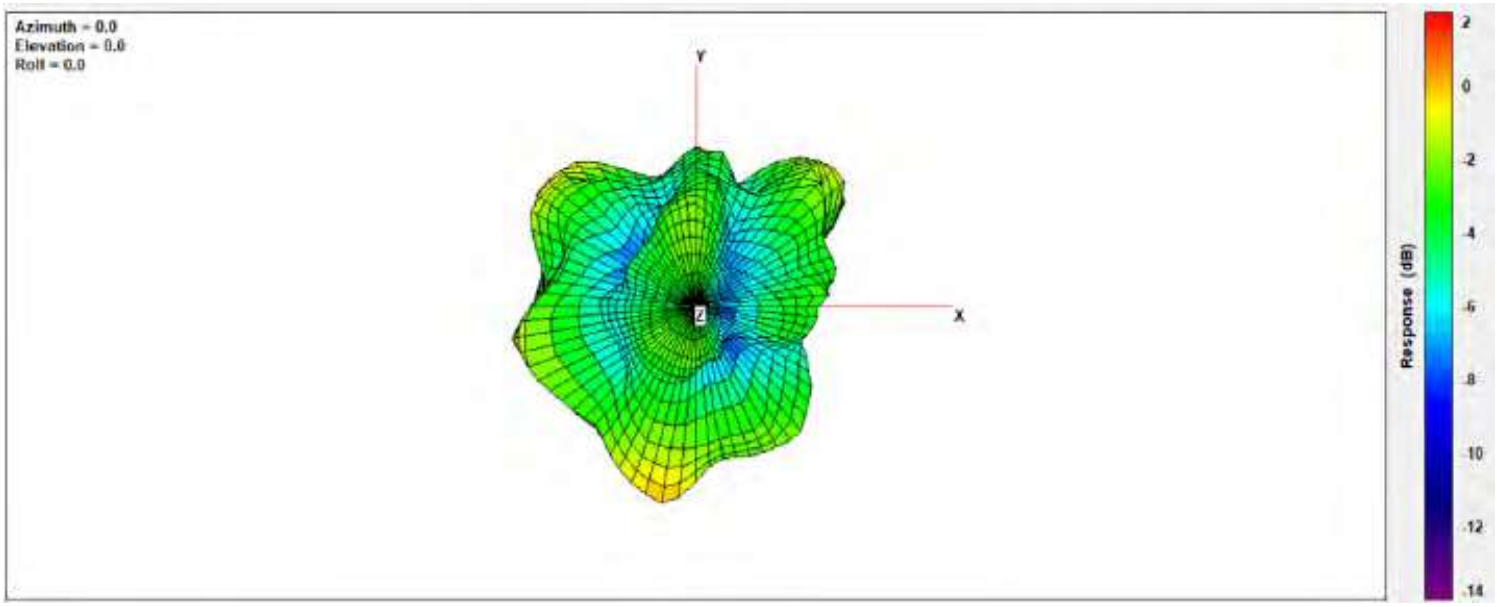
Center Frequency	**2170MHz**
Peak Gain W/ Cable loss (dBi)	4.71

2300MHz



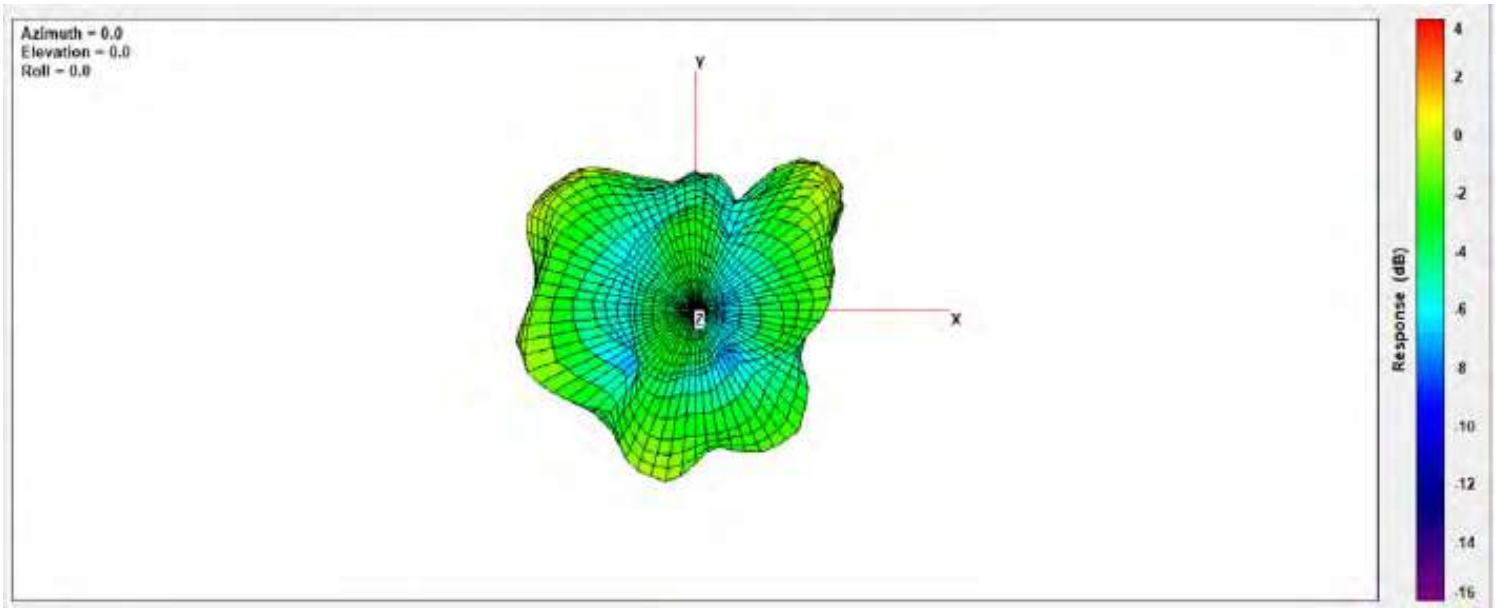
Center Frequency	**2300MHz**
Peak Gain W/ Cable loss (dBi)	1.38

2325MHz



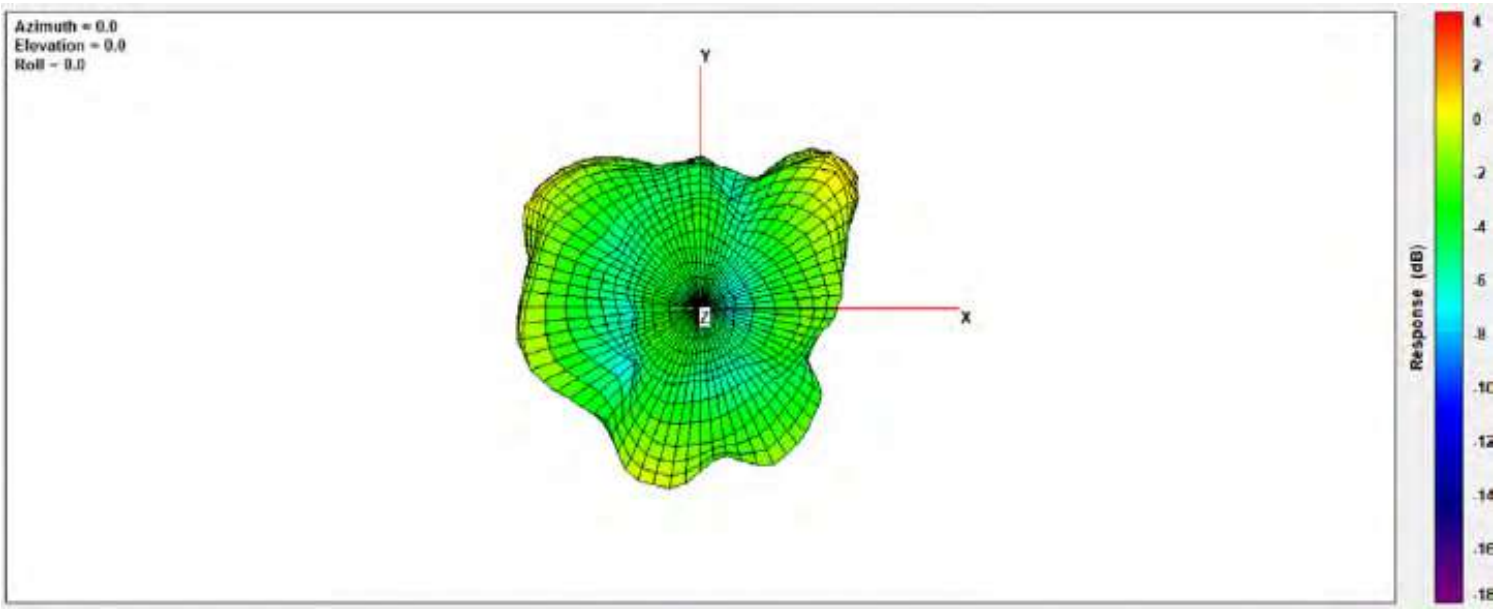
Center Frequency	**2325MHz**
Peak Gain W/ Cable loss (dBi)	0.56

2350MHz



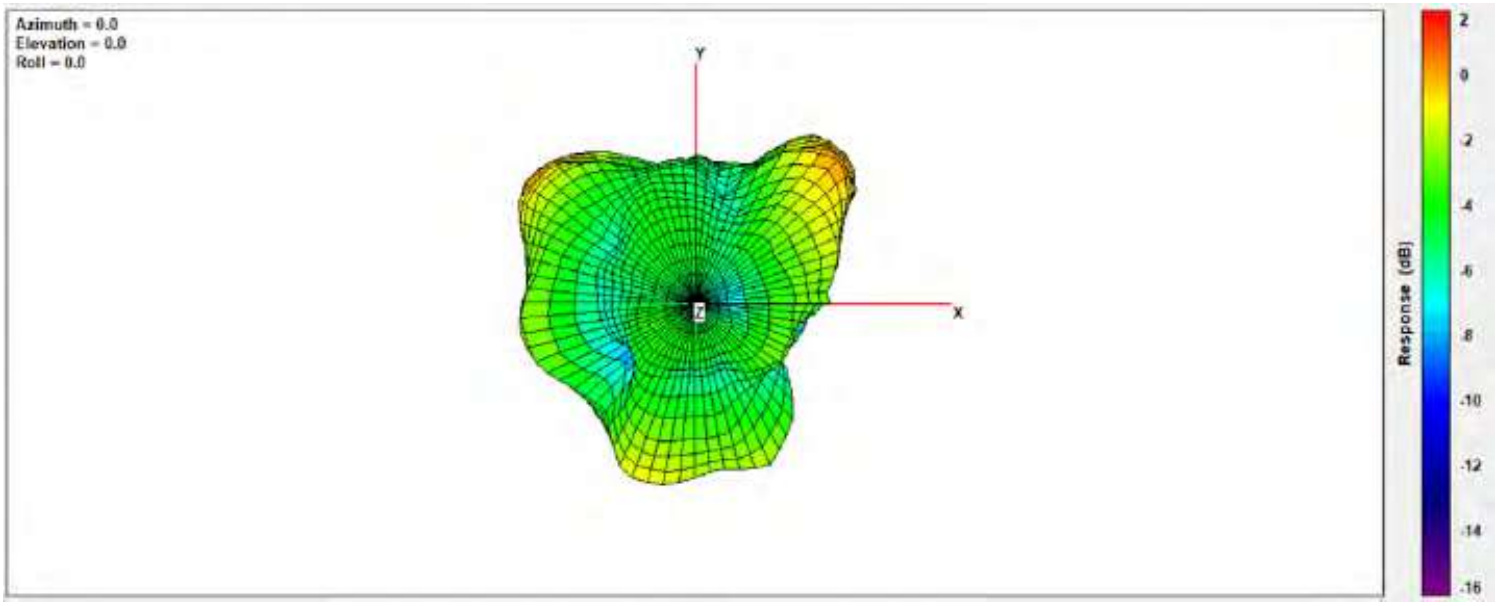
Center Frequency	**2350MHz**
Peak Gain W/ Cable loss (dBi)	2.03

2375MHz



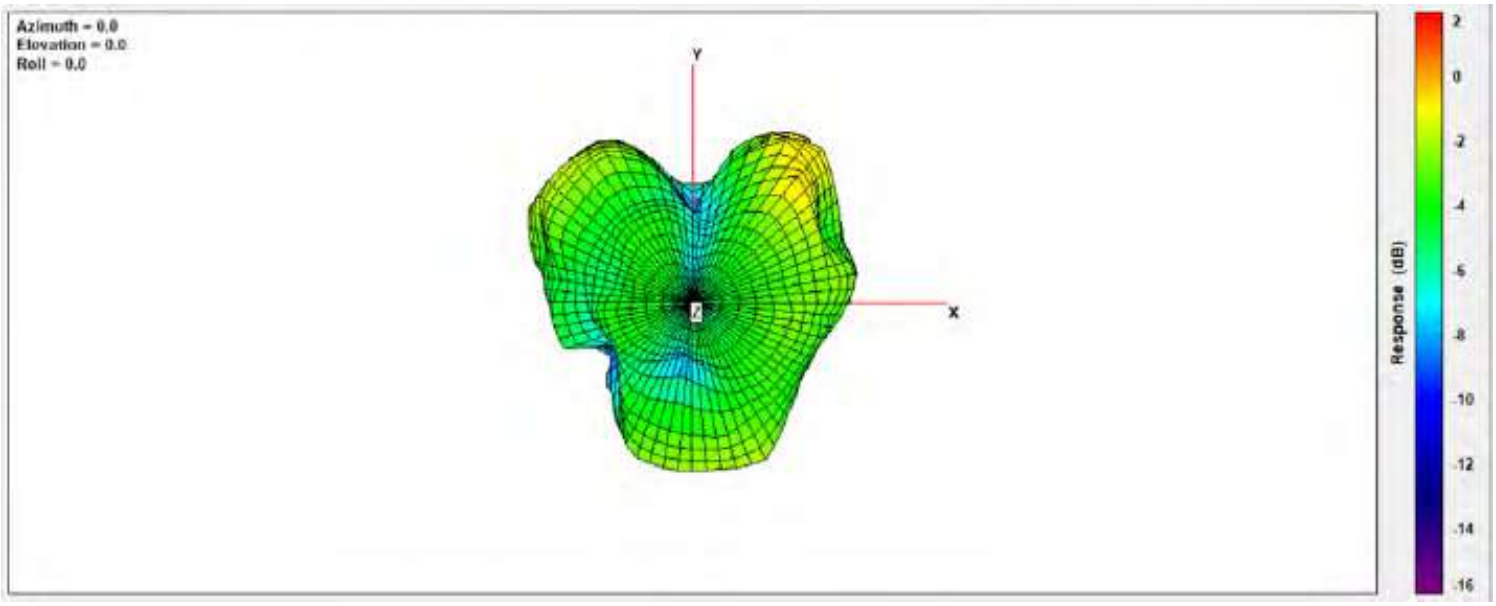
Center Frequency	**2375MHz**
Peak Gain W/ Cable loss (dBi)	2.52

2400MHz



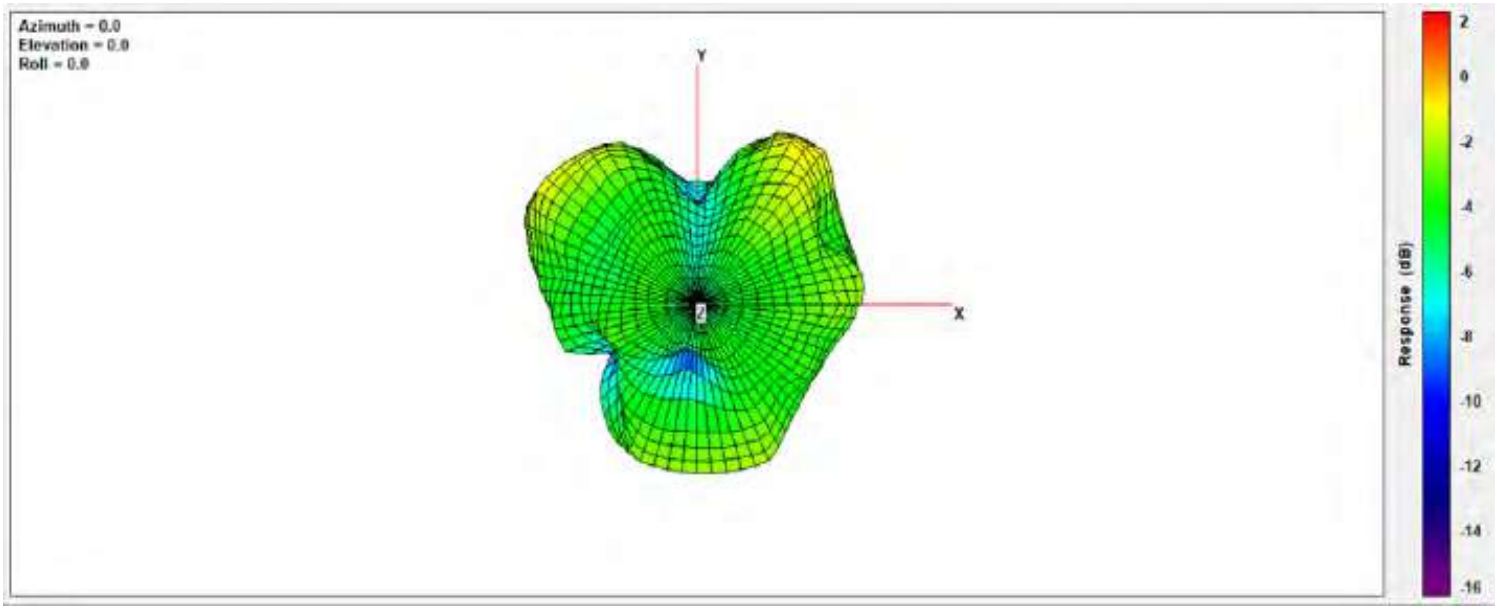
Center Frequency	**2400MHz**
Peak Gain W/ Cable loss (dBi)	**1.59**

2500MHz



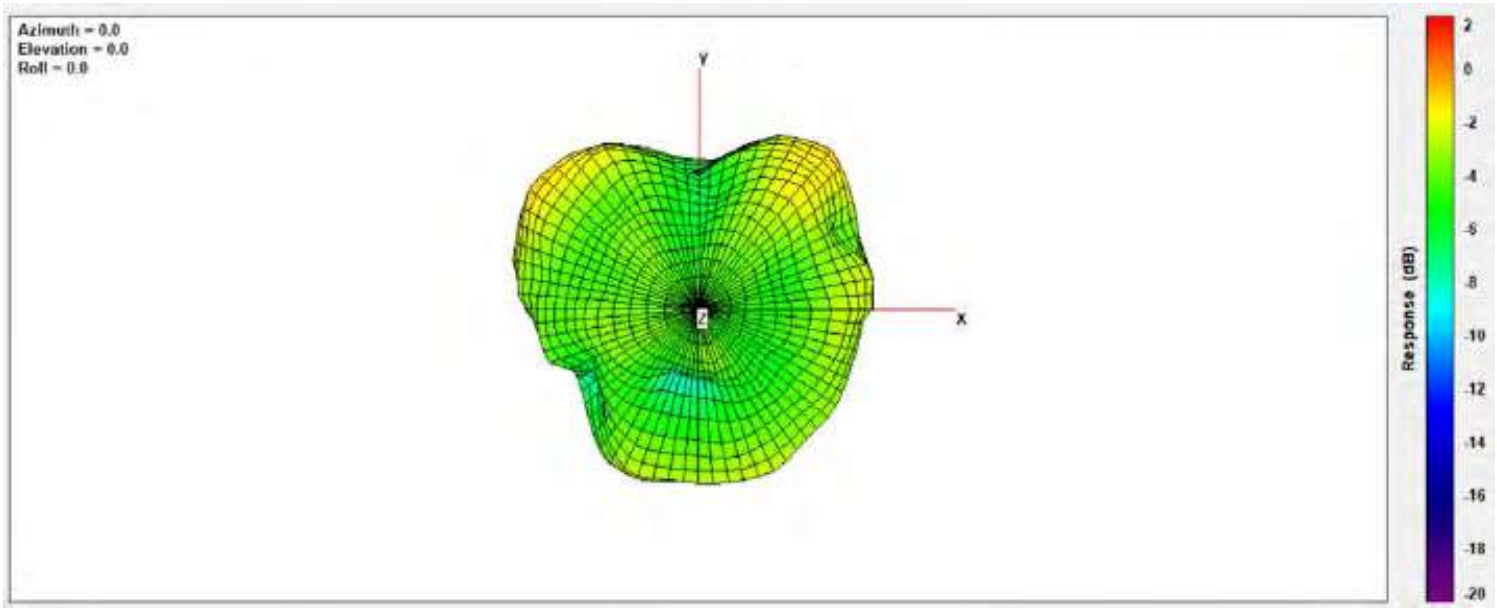
Center Frequency	**2500MHz**
Peak Gain W/ Cable loss (dBi)	**0.05**

2515MHz



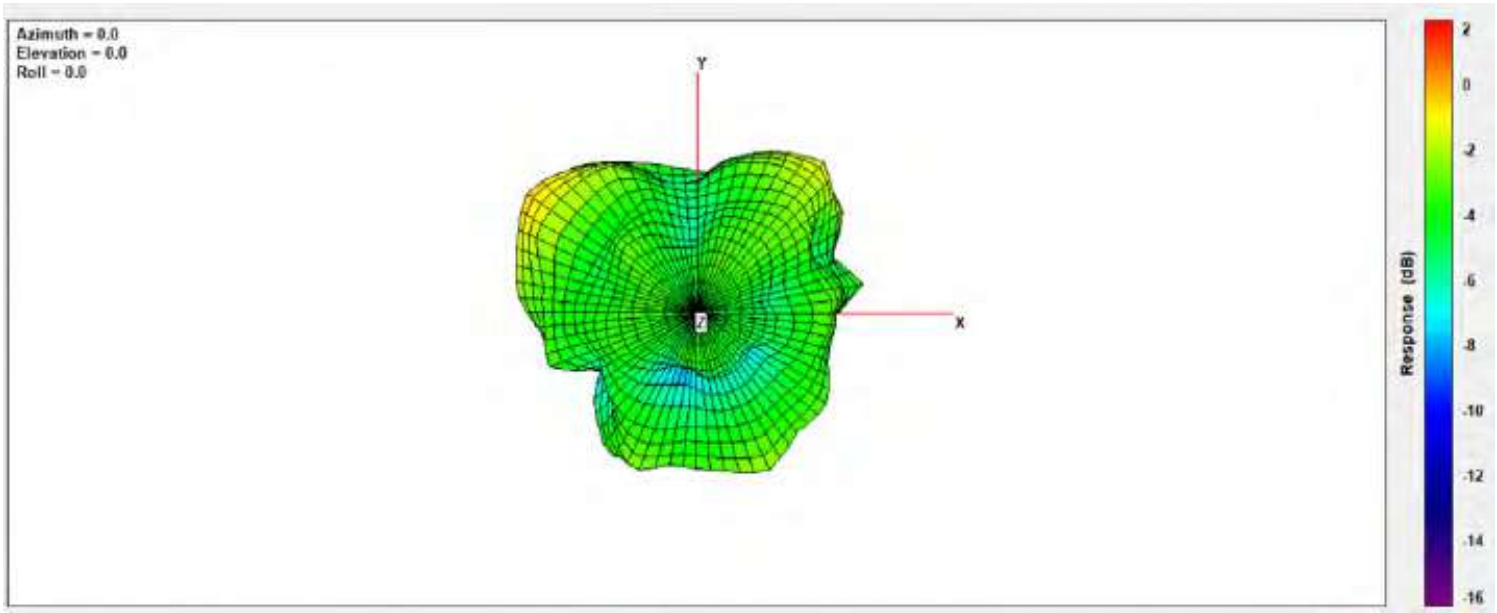
Center Frequency	**2515MHz**
Peak Gain W/ Cable loss (dBi)	**0.16**

2535MHz



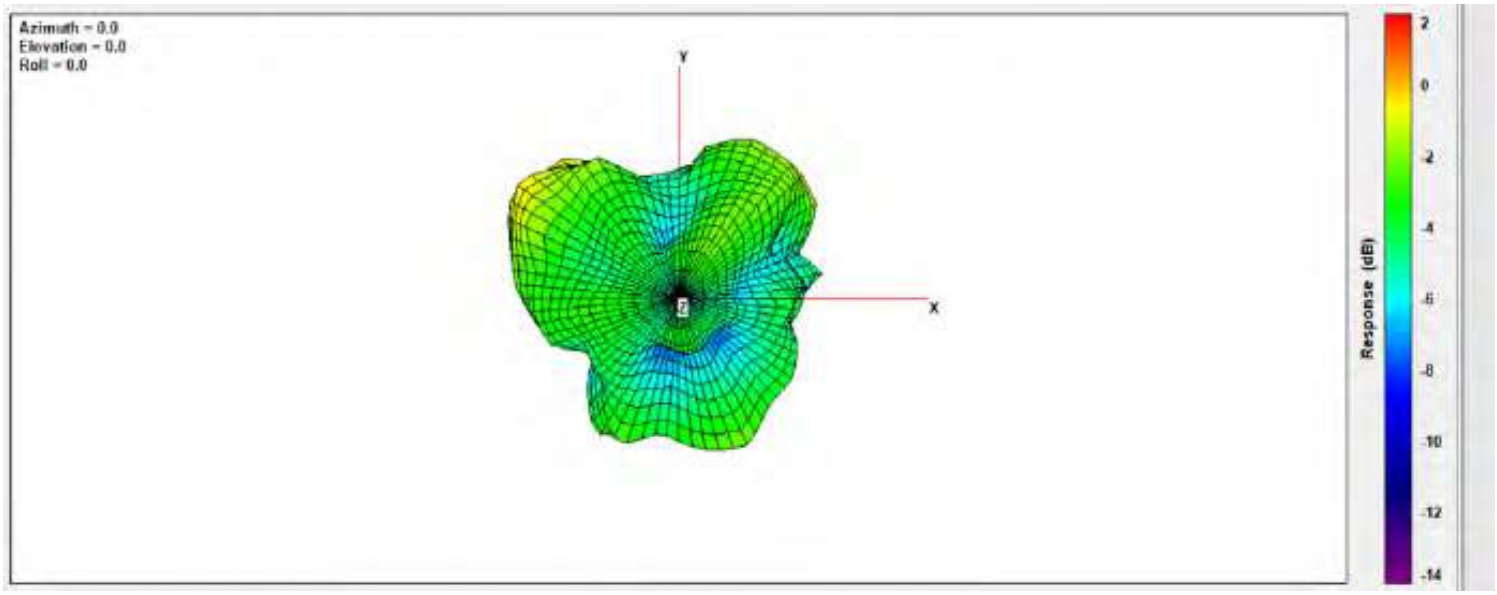
Center Frequency	**2535MHz**
Peak Gain W/ Cable loss (dBi)	**0.49**

2555MHz



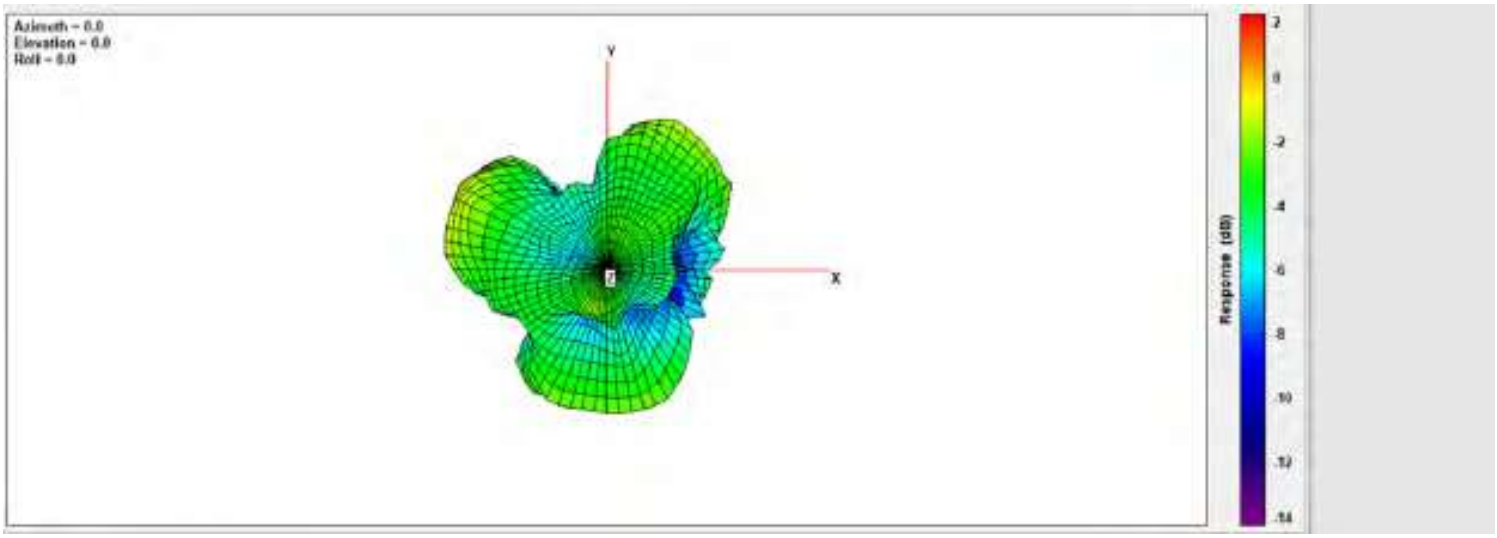
Center Frequency	**2555MHz**
Peak Gain W/ Cable loss (dBi)	**0.059**

2570MHz



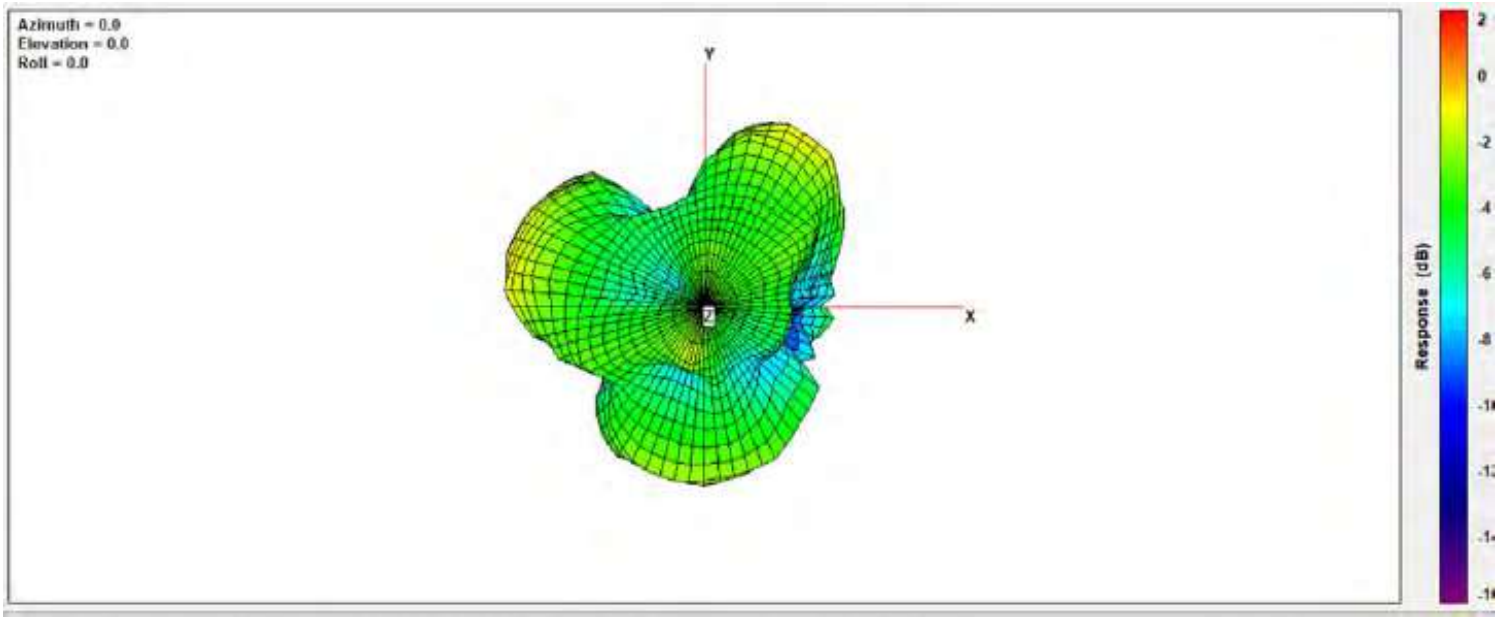
Center Frequency	**2570MHz**
Peak Gain W/ Cable loss (dBi)	**1.14**

2620MHz



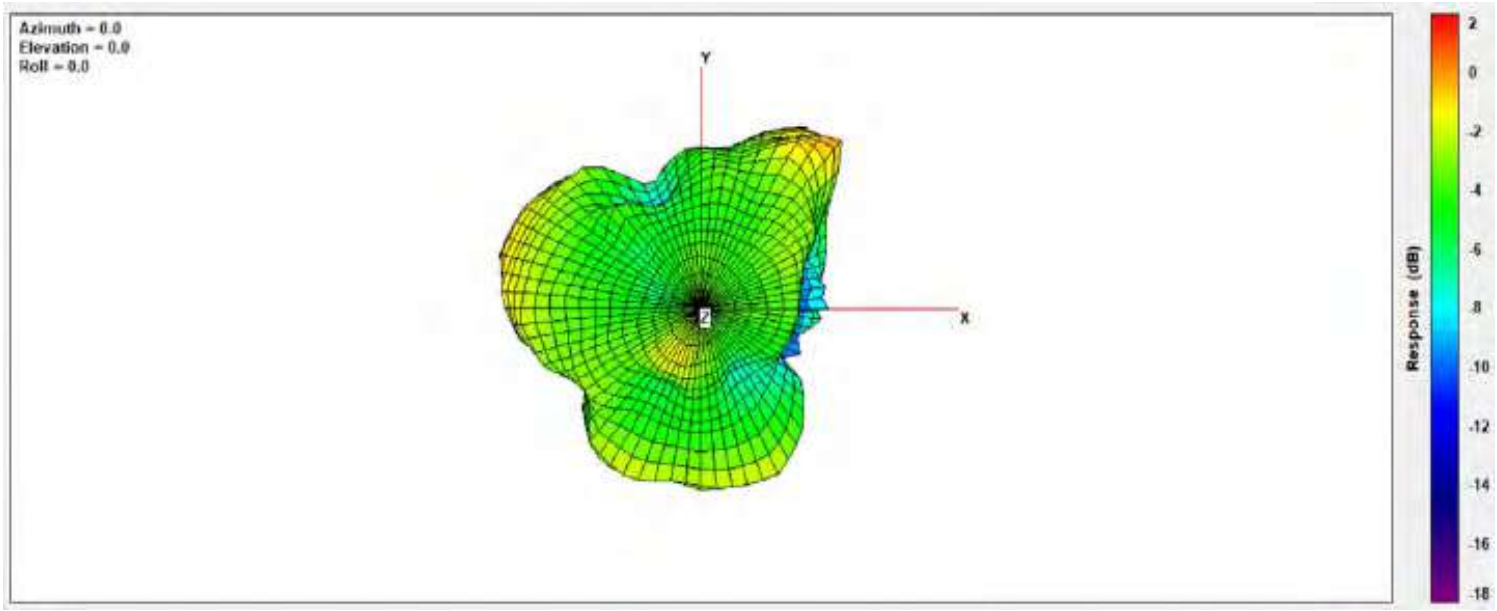
Center Frequency	**2620MHz**
Peak Gain W/ Cable loss (dBi)	**1.17**

2630MHz



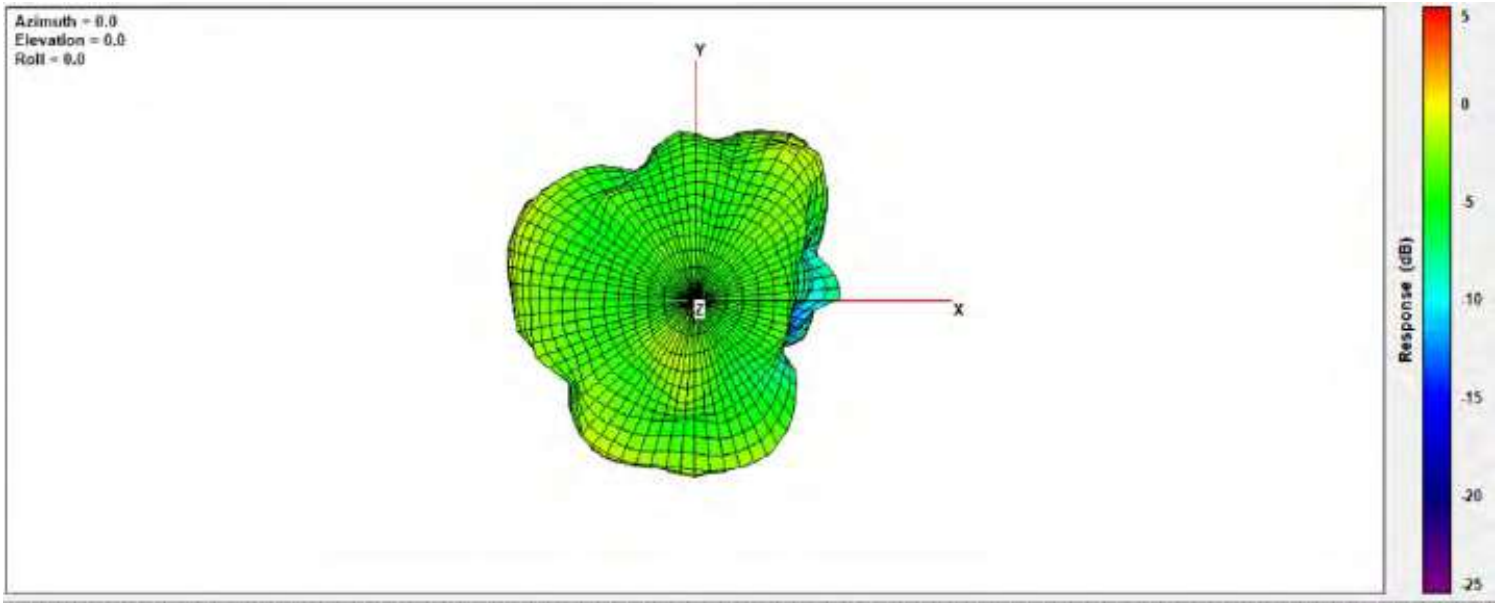
Center Frequency	**2630MHz**
Peak Gain W/ Cable loss (dBi)	**0.66**

2655MHz



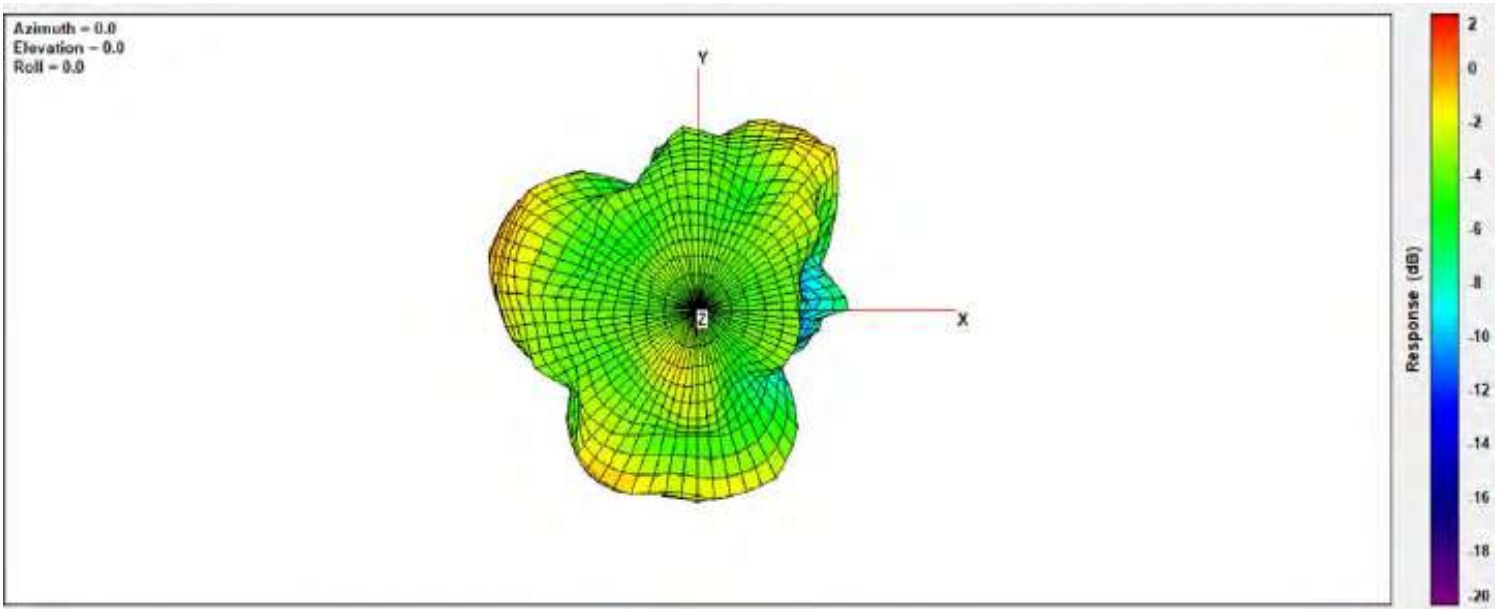
Center Frequency	**2655MHz**
Peak Gain W/ Cable loss (dBi)	**1.66**

2680MHz



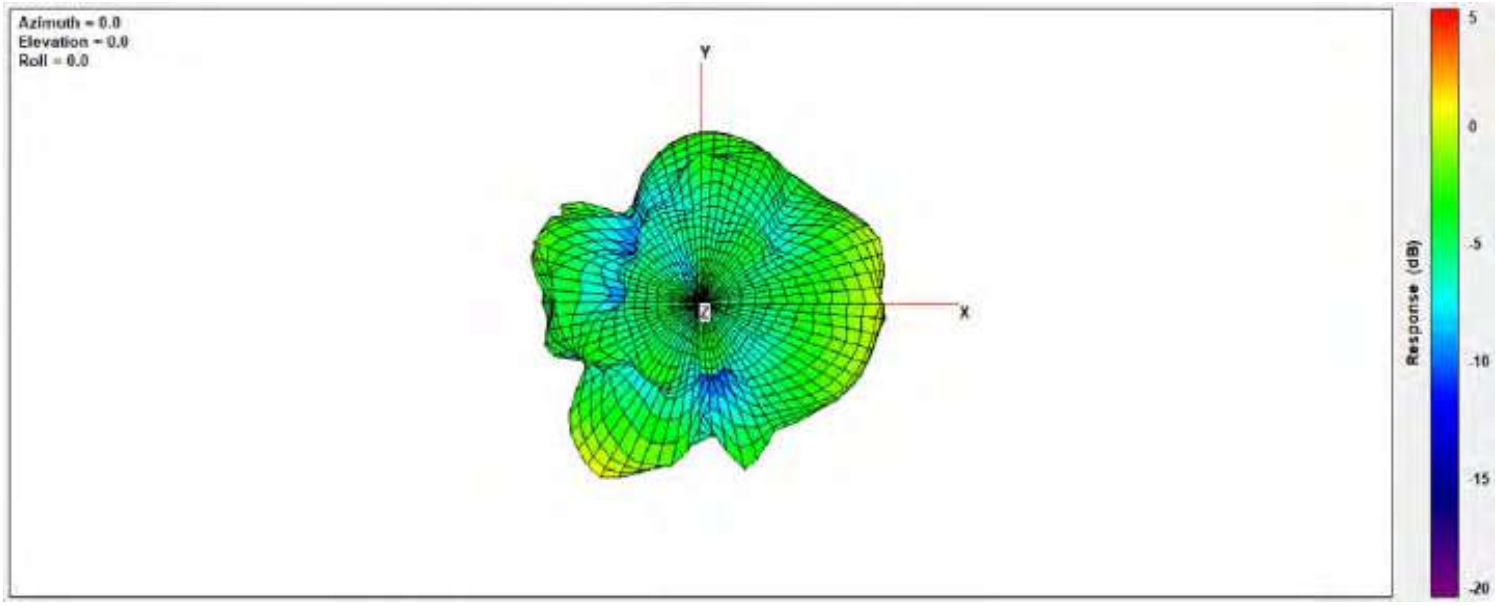
Center Frequency	**2680MHz**
Peak Gain W/ Cable loss (dBi)	**1.10**

2690MHz



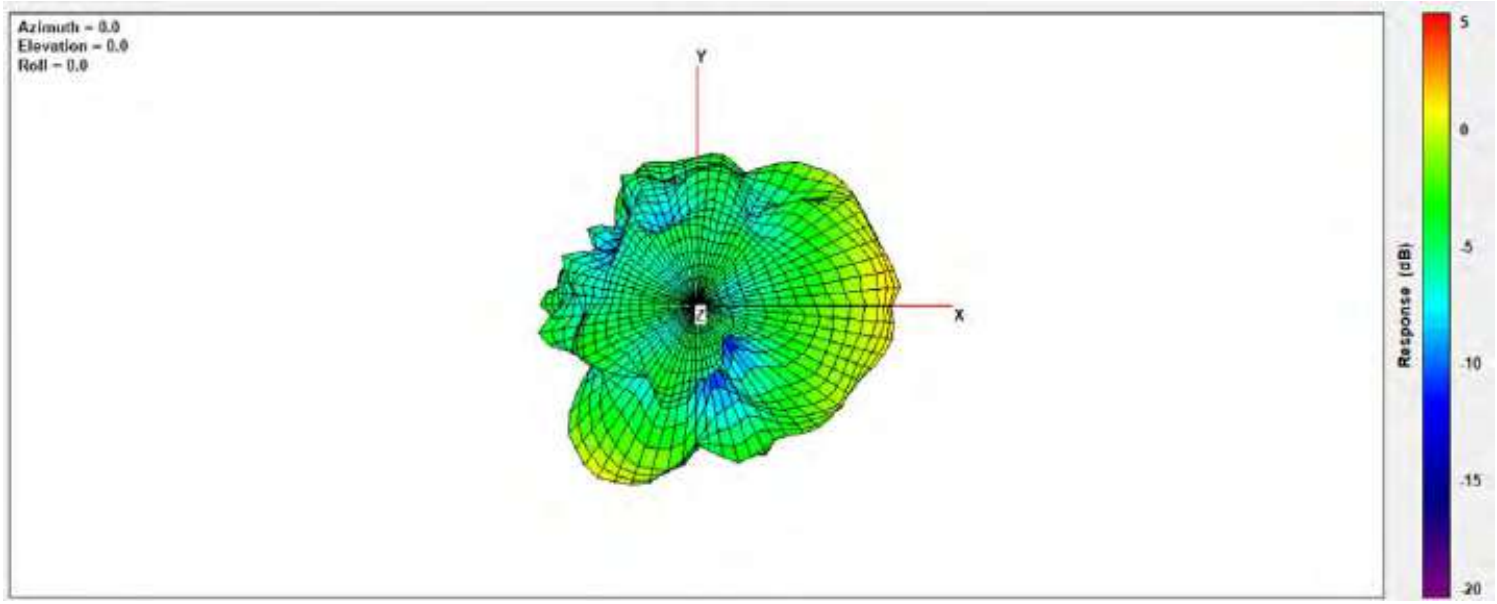
Center Frequency	**2690MHz**
Peak Gain W/ Cable loss (dBi)	**1.11**

3300MHz



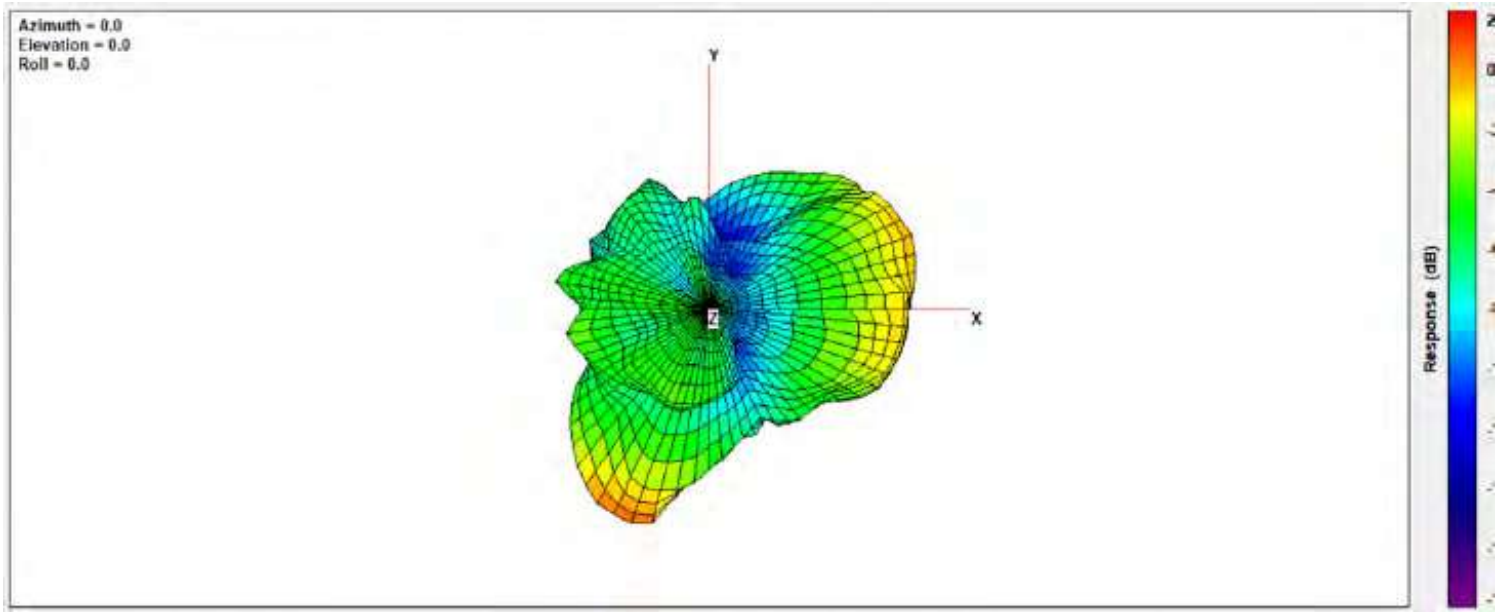
Center Frequency	**3300MHz**
Peak Gain W/ Cable loss (dBi)	2.06

3400MHz



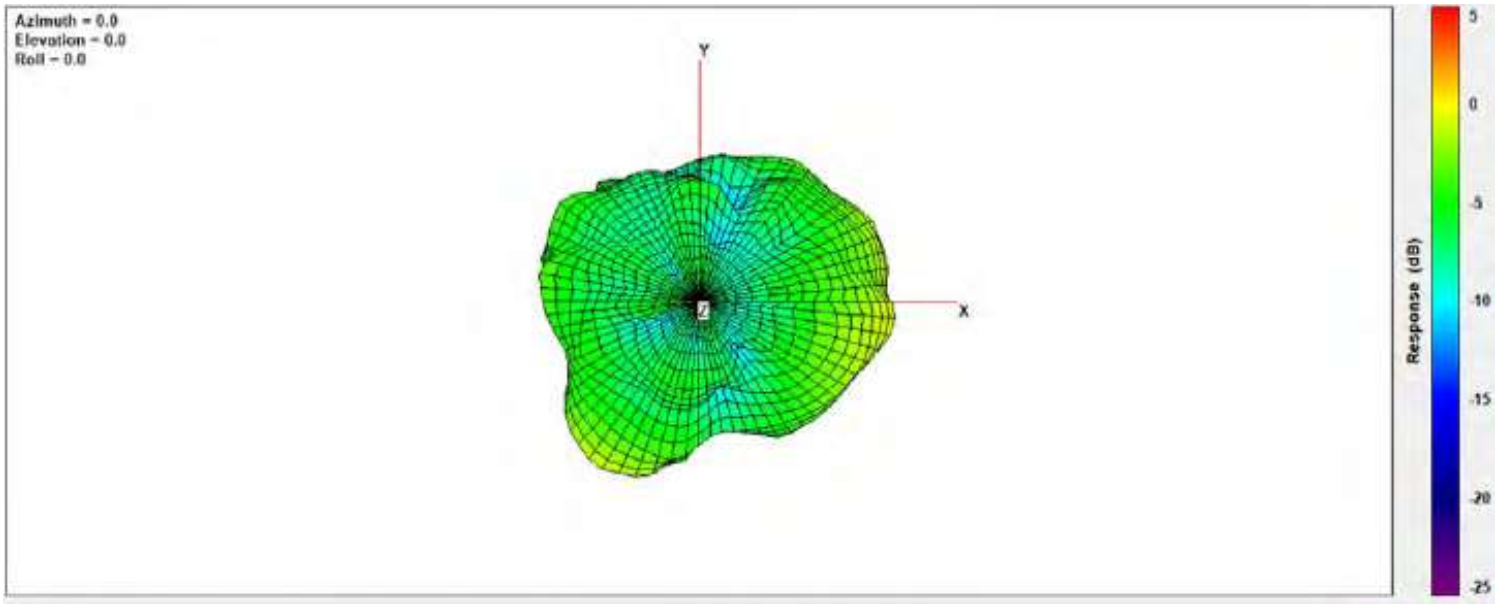
Center Frequency	**3400MHz**
Peak Gain W/ Cable loss (dBi)	2.03

3550MHz



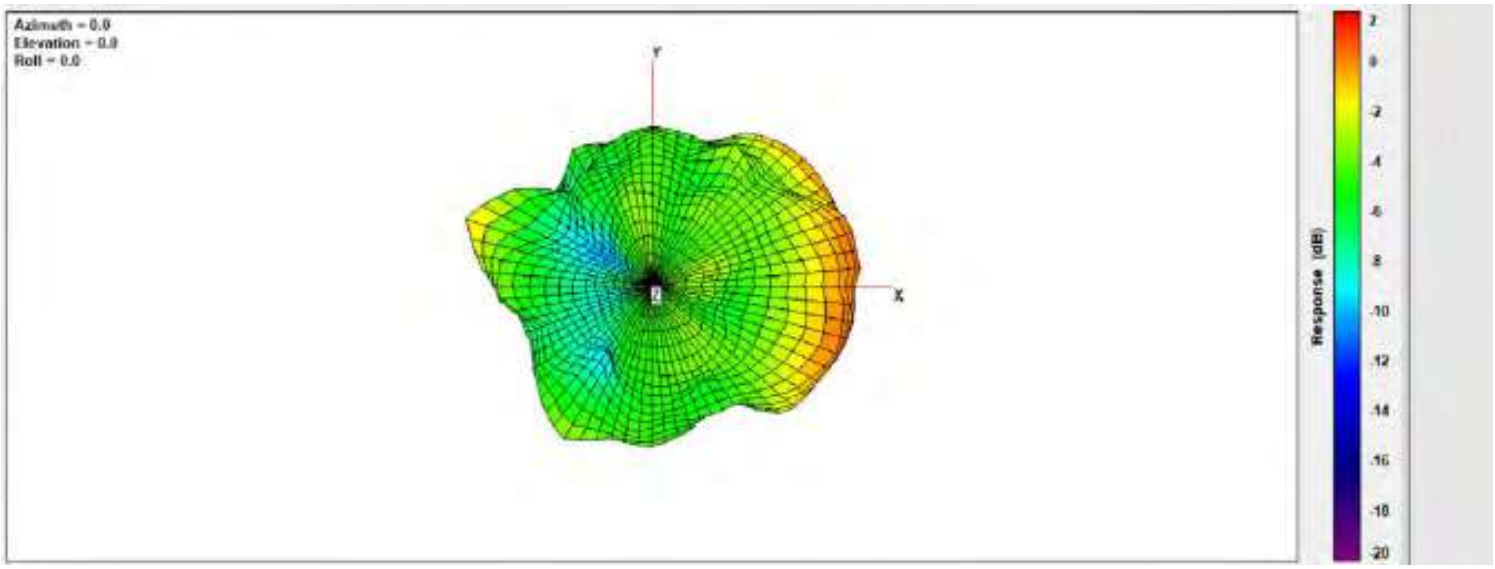
Center Frequency	**3550MHz**
Peak Gain W/ Cable loss (dBi)	1.06

3600MHz



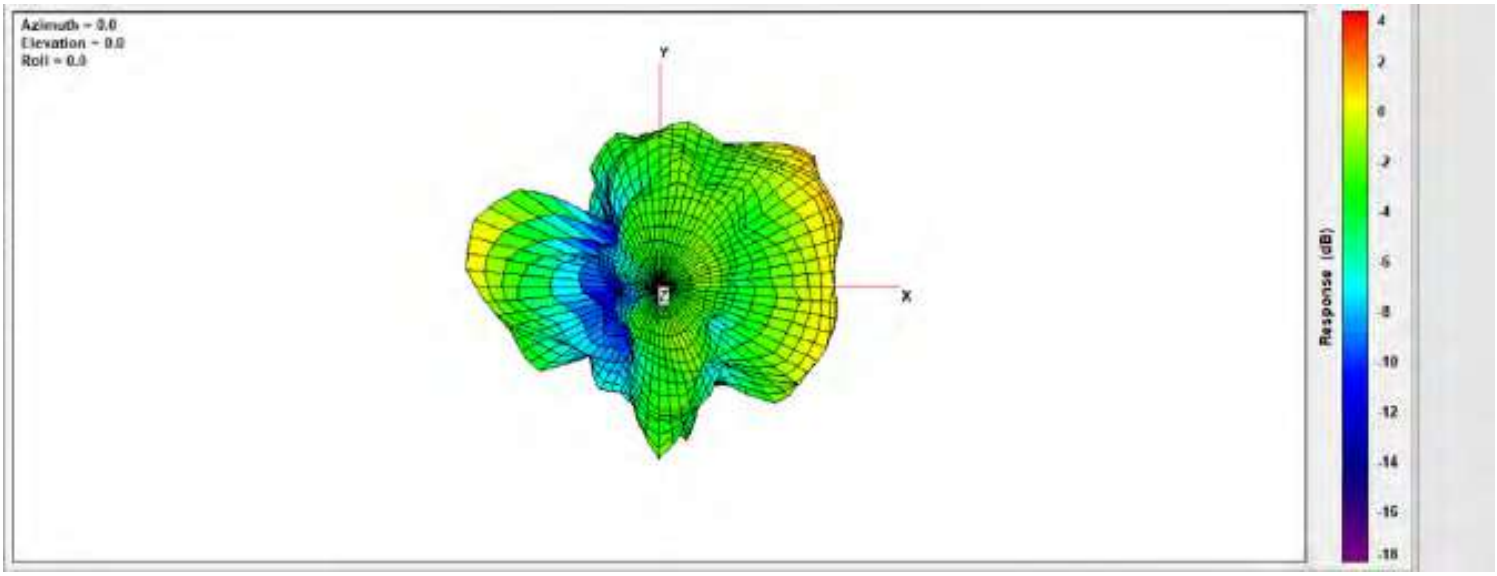
Center Frequency	**3600MHz**
Peak Gain W/ Cable loss (dBi)	0.02

3700MHz



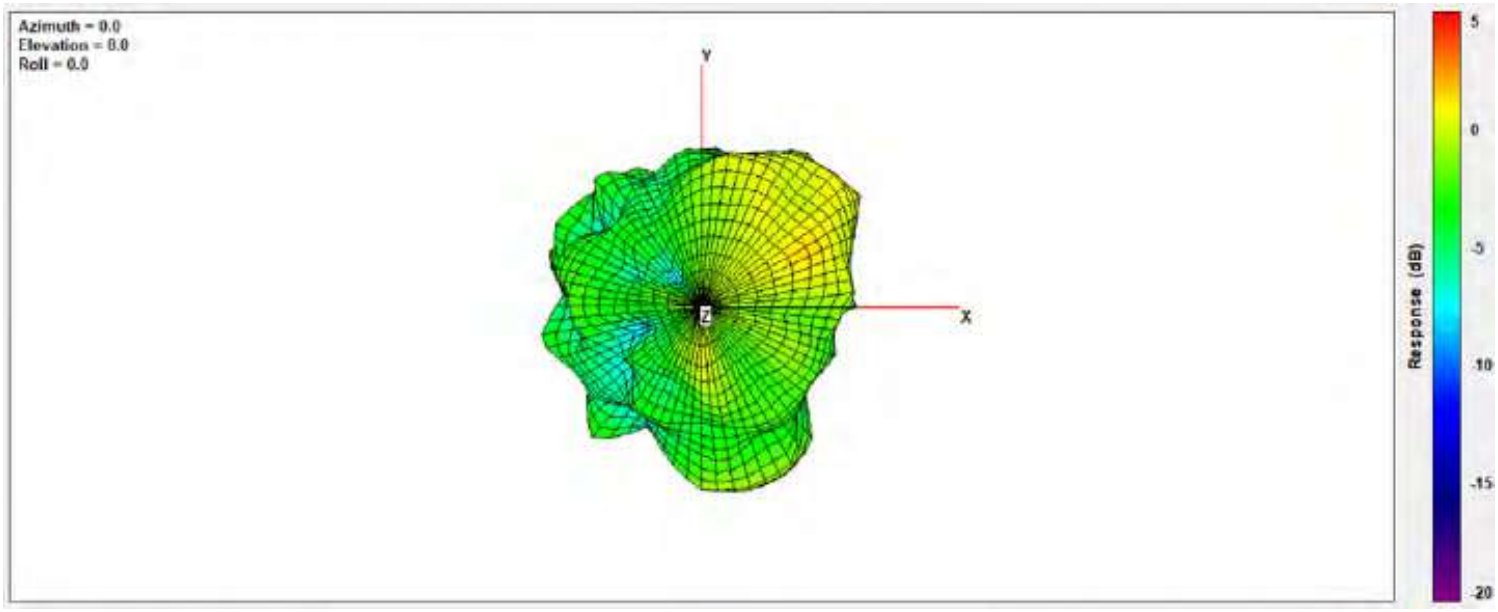
Center Frequency	**3700MHz**
Peak Gain W/ Cable loss (dBi)	0.94

3800MHz



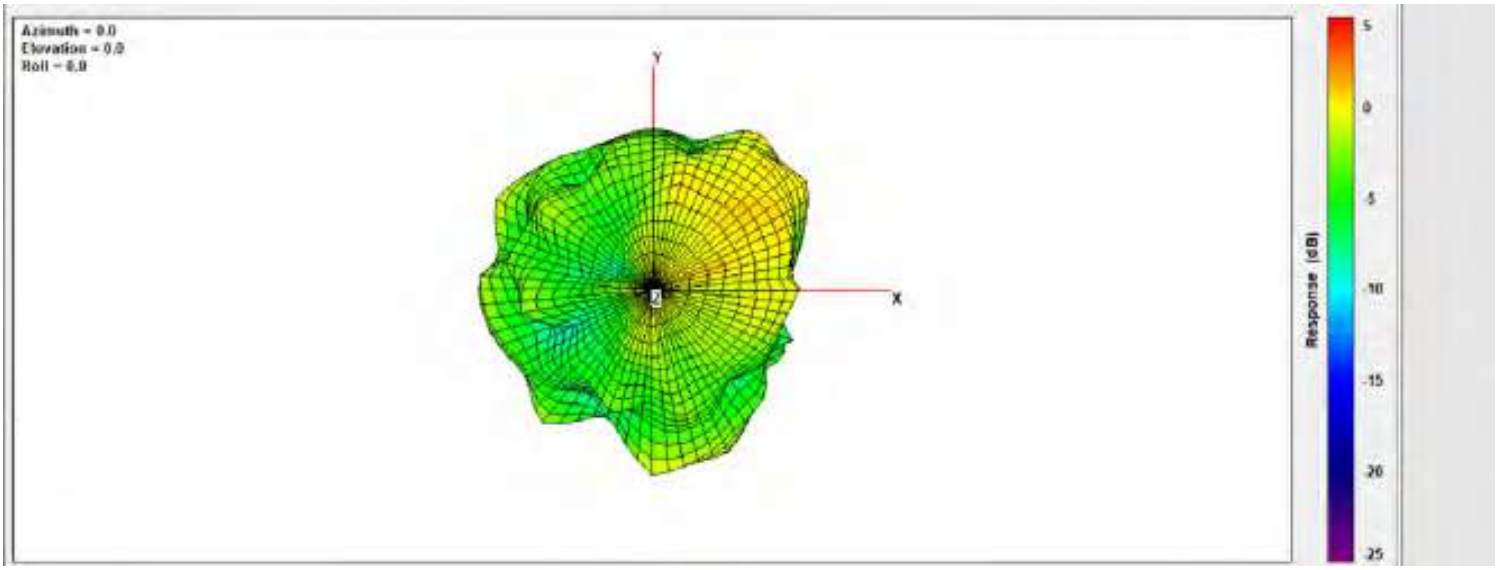
Center Frequency	**3800MHz**
Peak Gain W/ Cable loss (dBi)	**2.59**

5150MHz



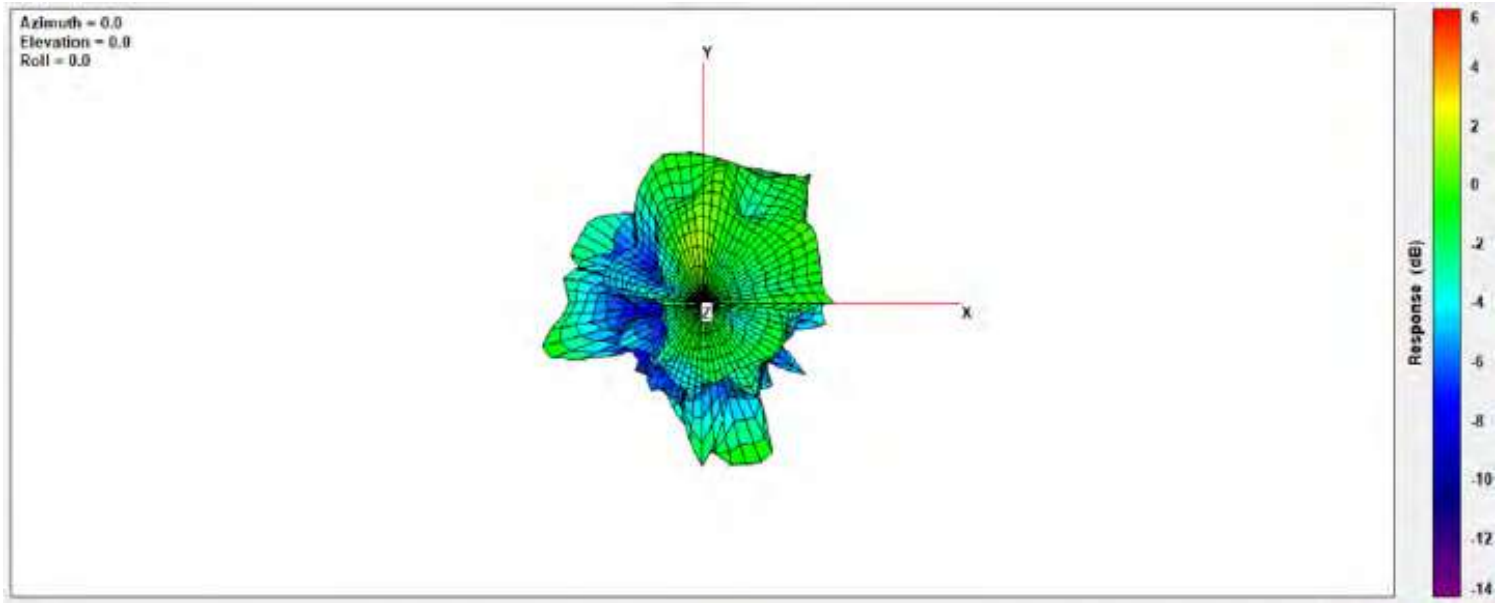
Center Frequency	**5150MHz**
Peak Gain W/ Cable loss (dBi)	3.46

5250MHz



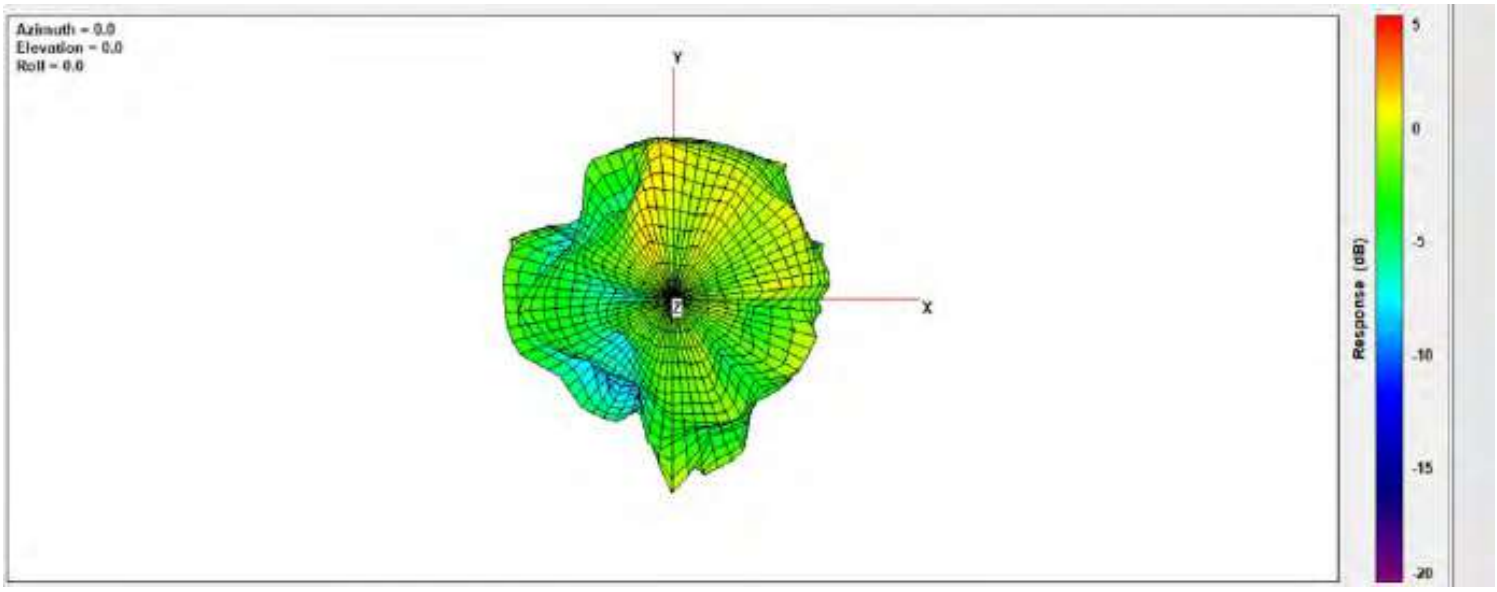
Center Frequency	**5250MHz**
Peak Gain W/ Cable loss (dBi)	3.86

5725MHz



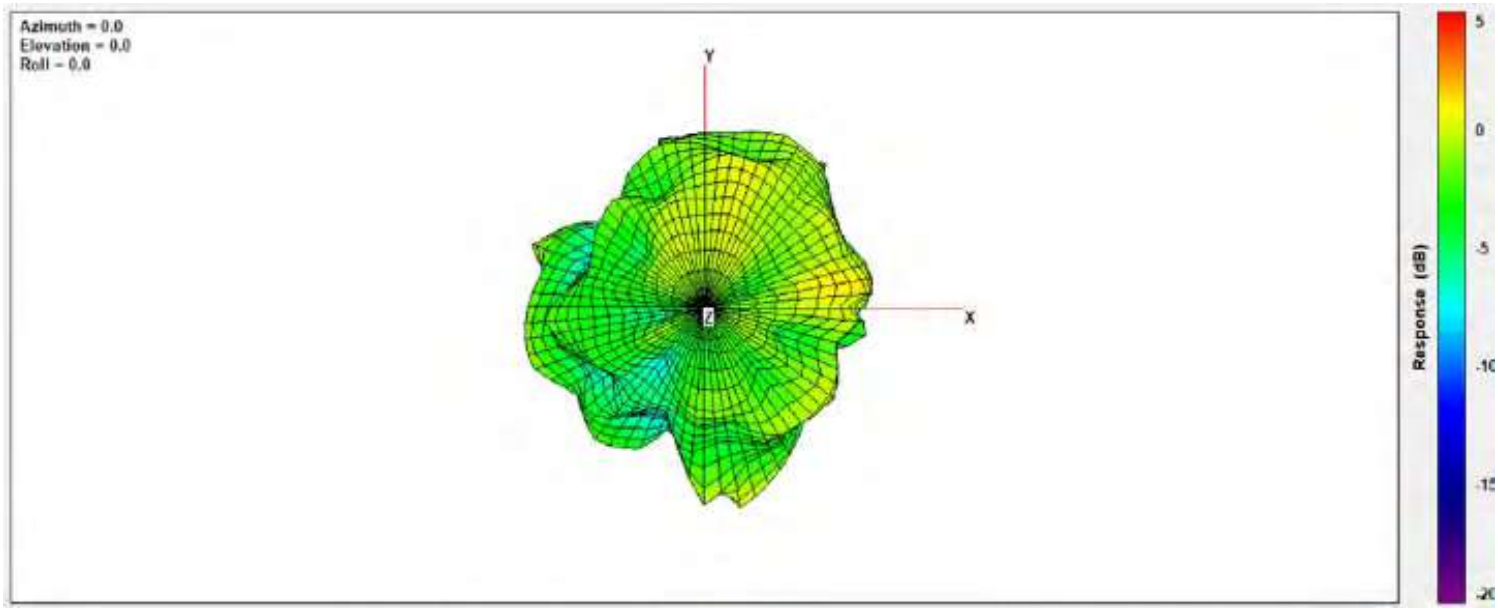
Center Frequency	**5725MHz**
Peak Gain W/ Cable loss (dBi)	4.15

5850MHz



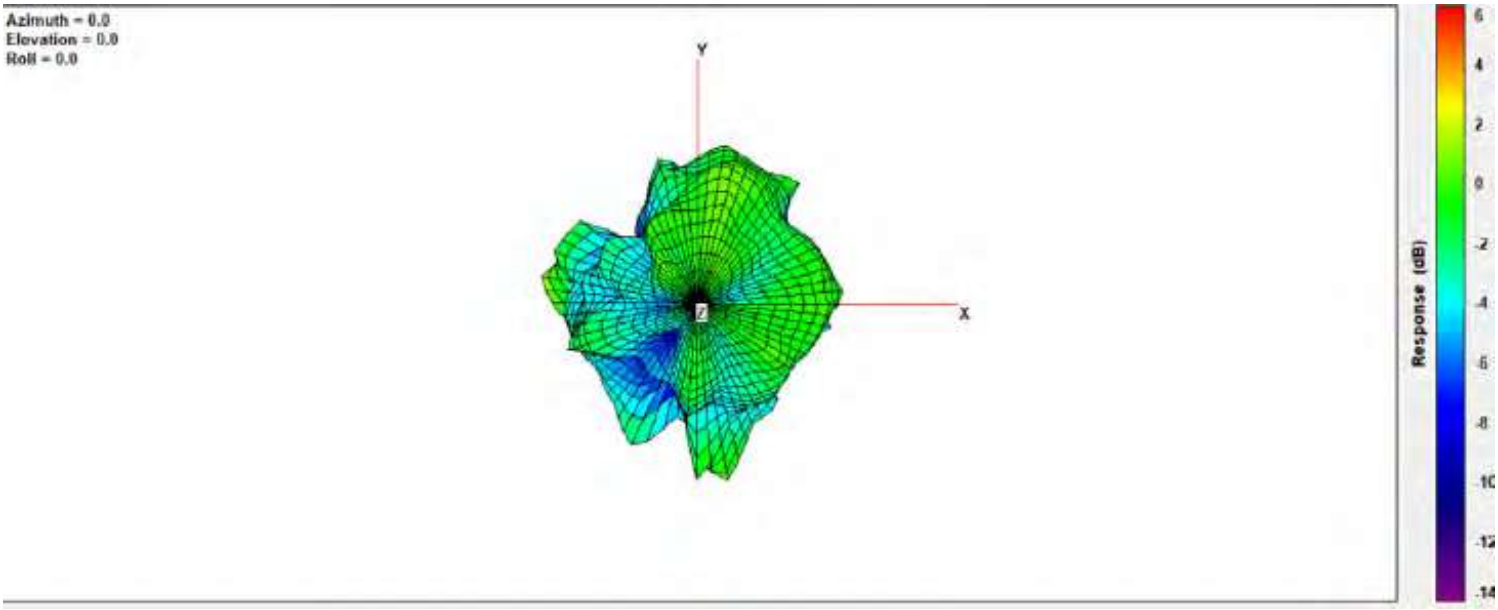
Center Frequency	**5850MHz**
Peak Gain W/ Cable loss (dBi)	4.48

5925MHz



Center Frequency	**5925MHz**
Peak Gain W/ Cable loss (dBi)	3.38

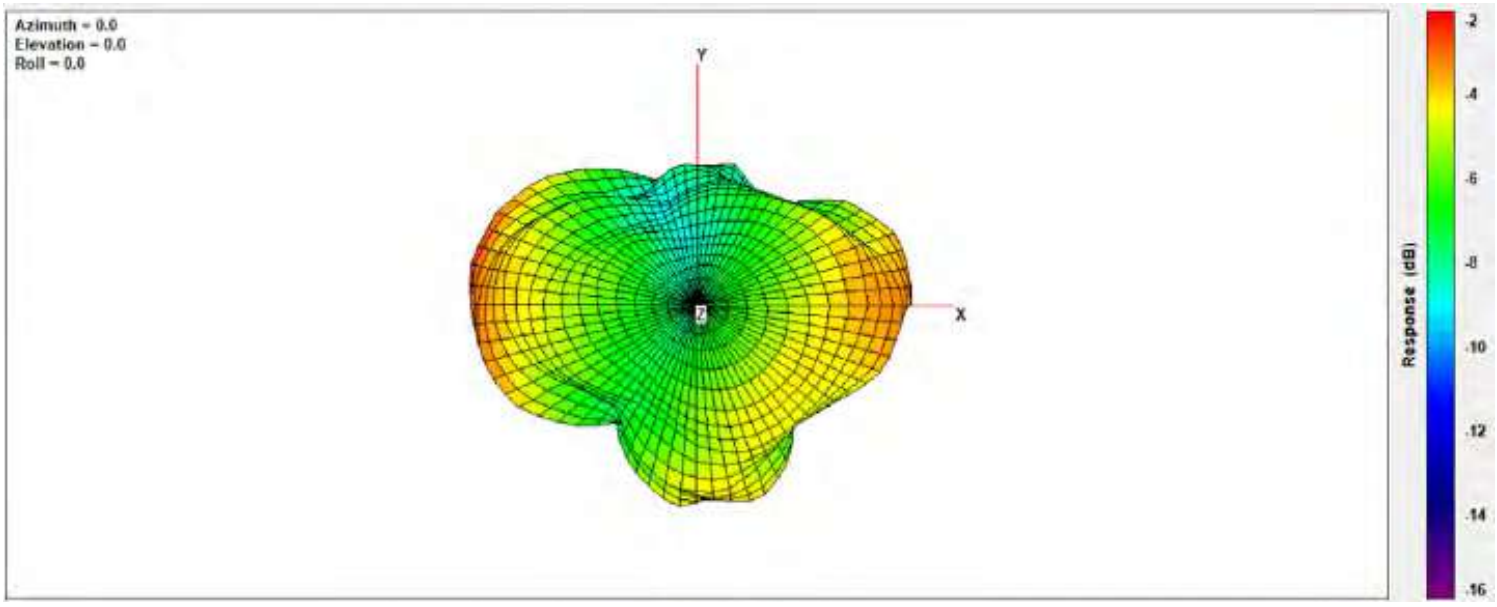
6000MHz



Center Frequency	**6000MHz**
Peak Gain W/ Cable loss (dBi)	4.72

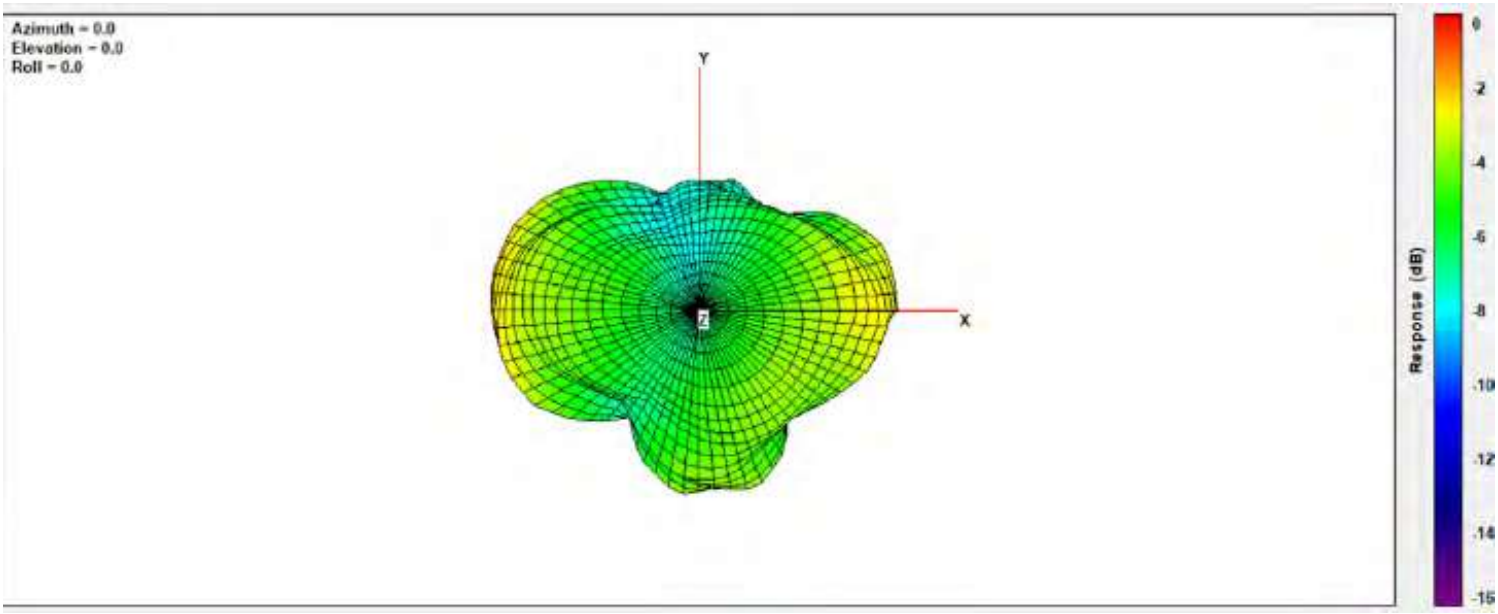
WWAN Aux Antenna

696MHz



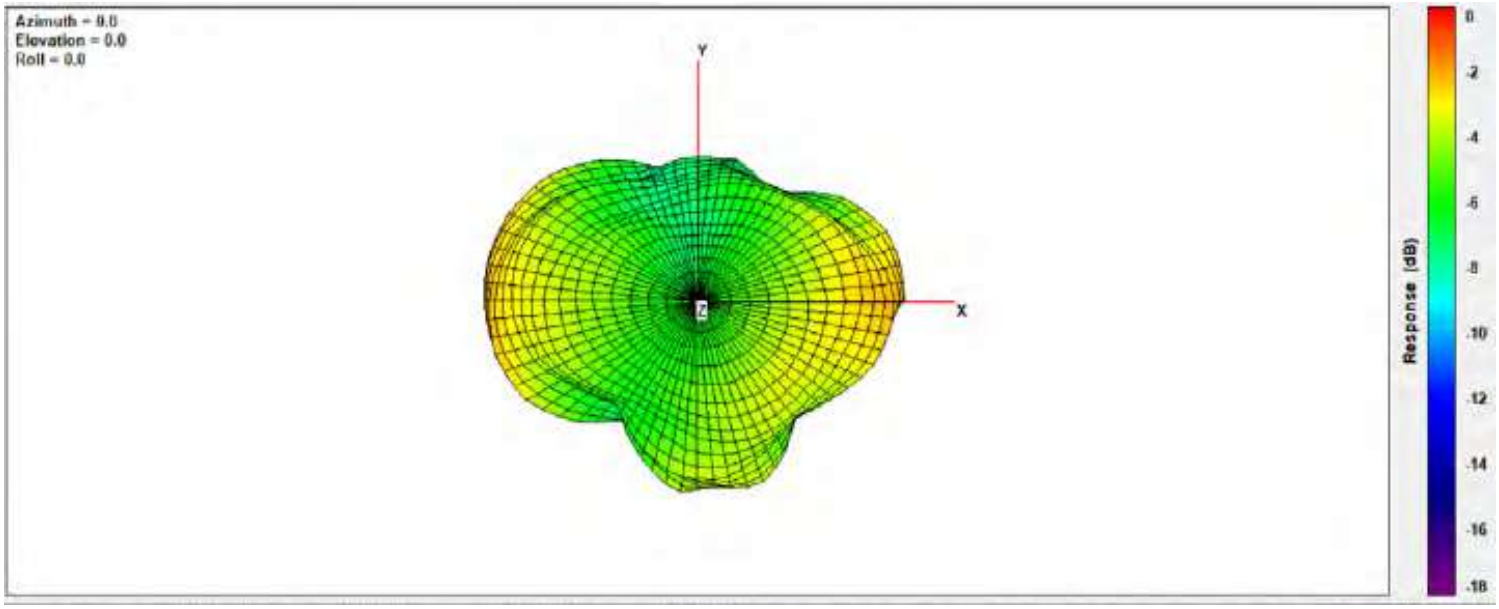
Center Frequency	**696MHz**
Peak Gain W/ Cable loss (dBi)	-2.31

704MHz



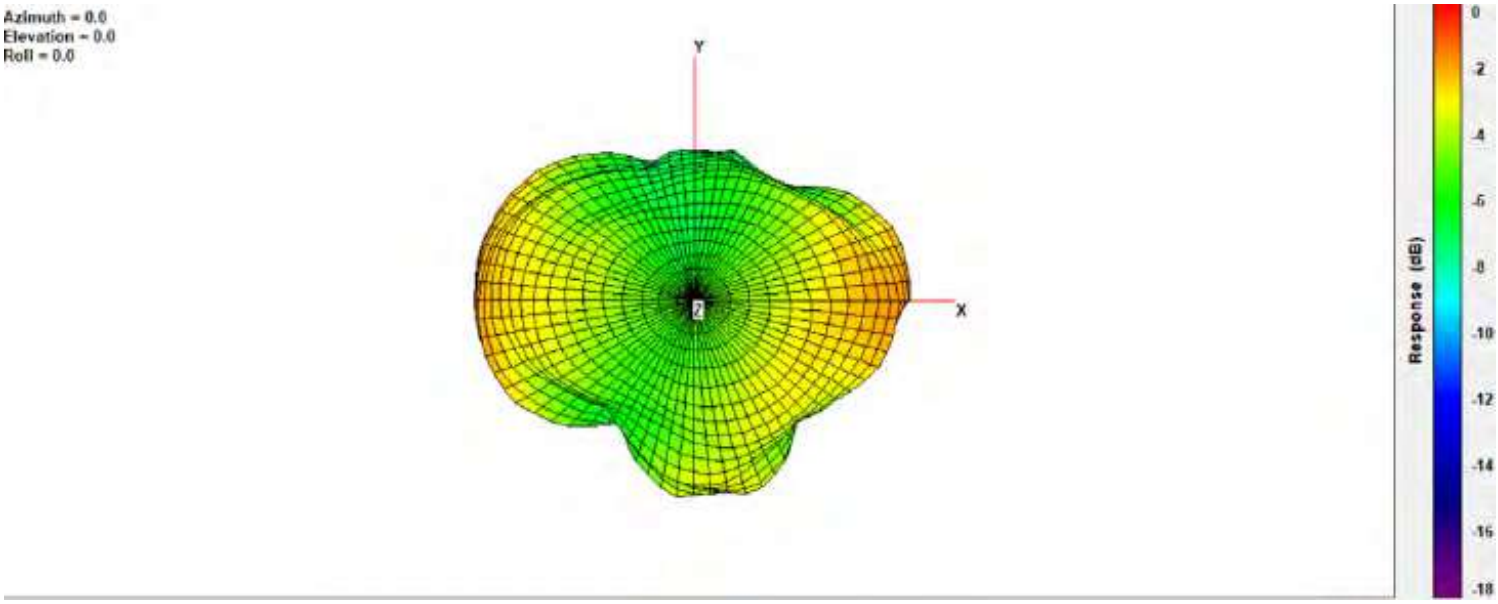
Center Frequency	**704MHz**
Peak Gain W/ Cable loss (dBi)	-1.81

710MHz



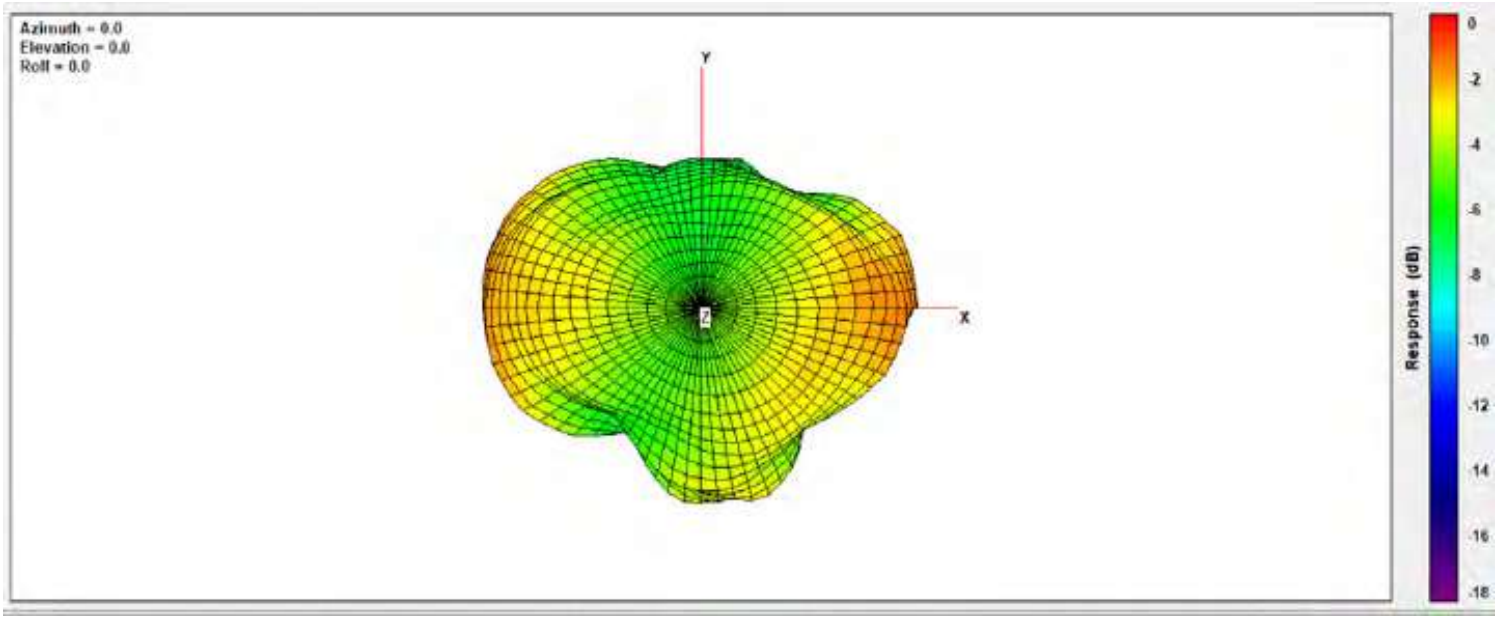
Center Frequency	**710MHz**
Peak Gain W/ Cable loss (dBi)	-1.59

716MHz



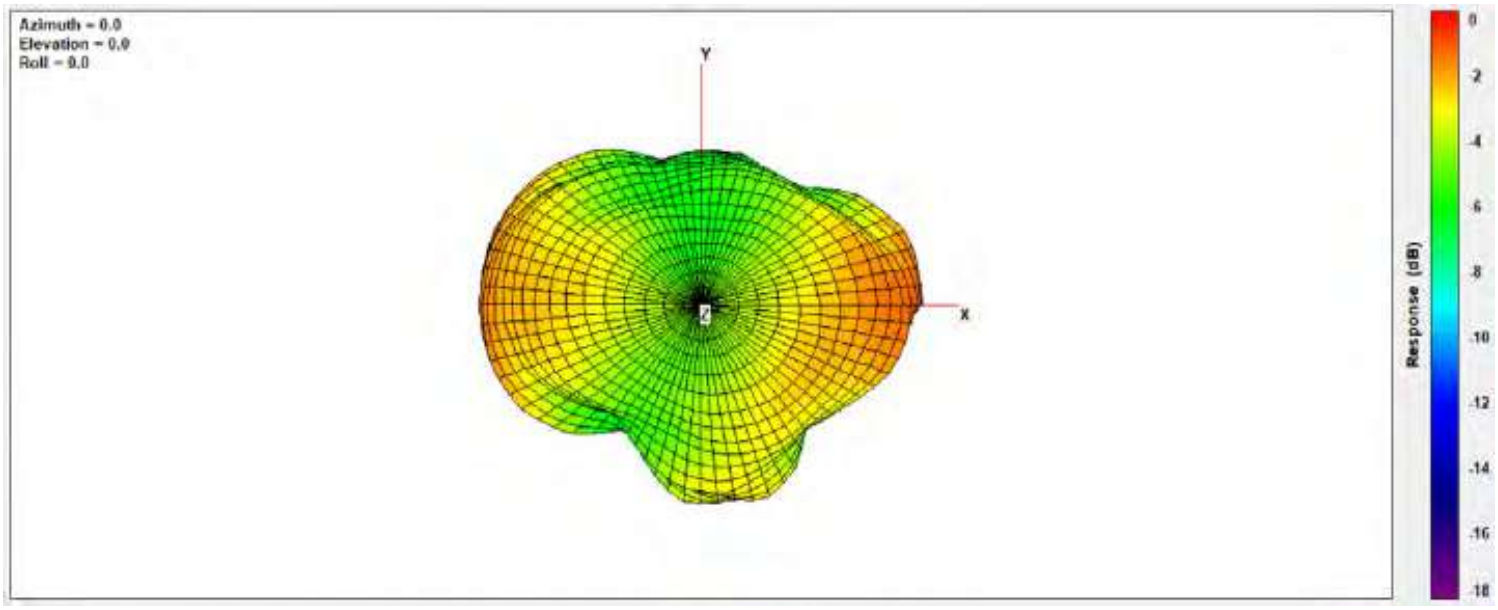
Center Frequency	**716MHz**
Peak Gain W/ Cable loss (dBi)	-1.20

720MHz



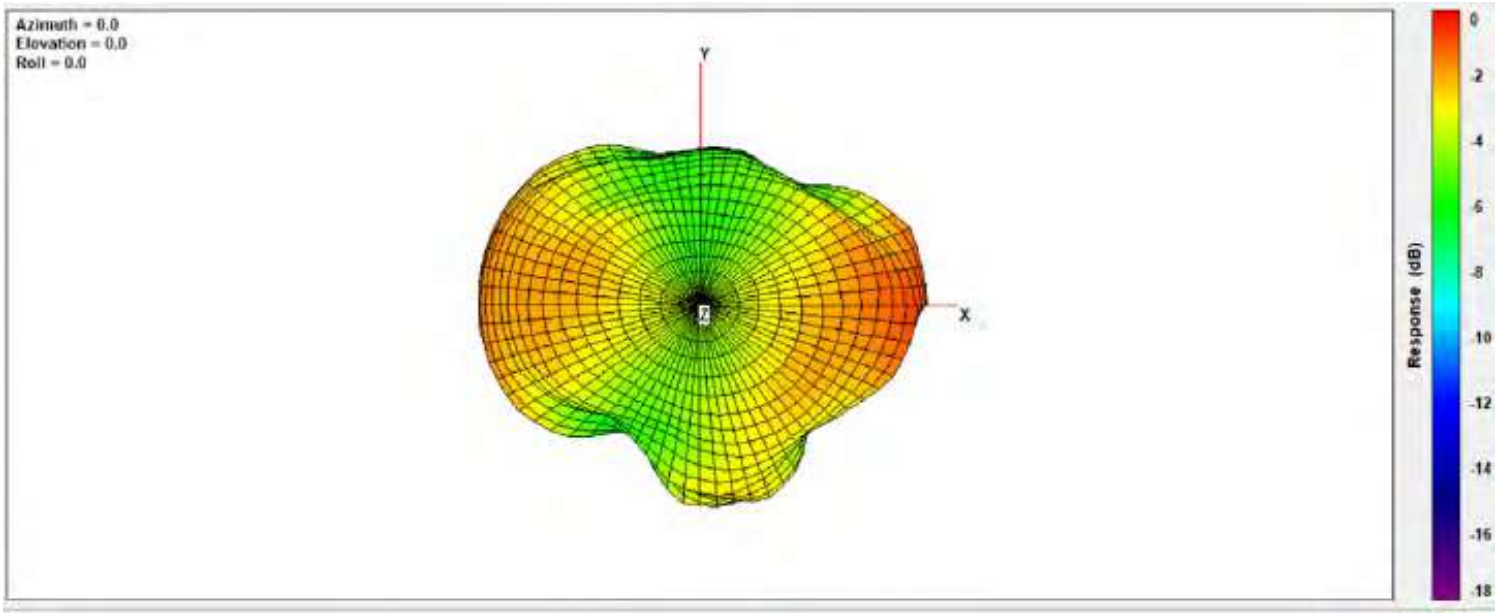
Center Frequency	**720MHz**
Peak Gain W/ Cable loss (dBi)	-0.98

725MHz



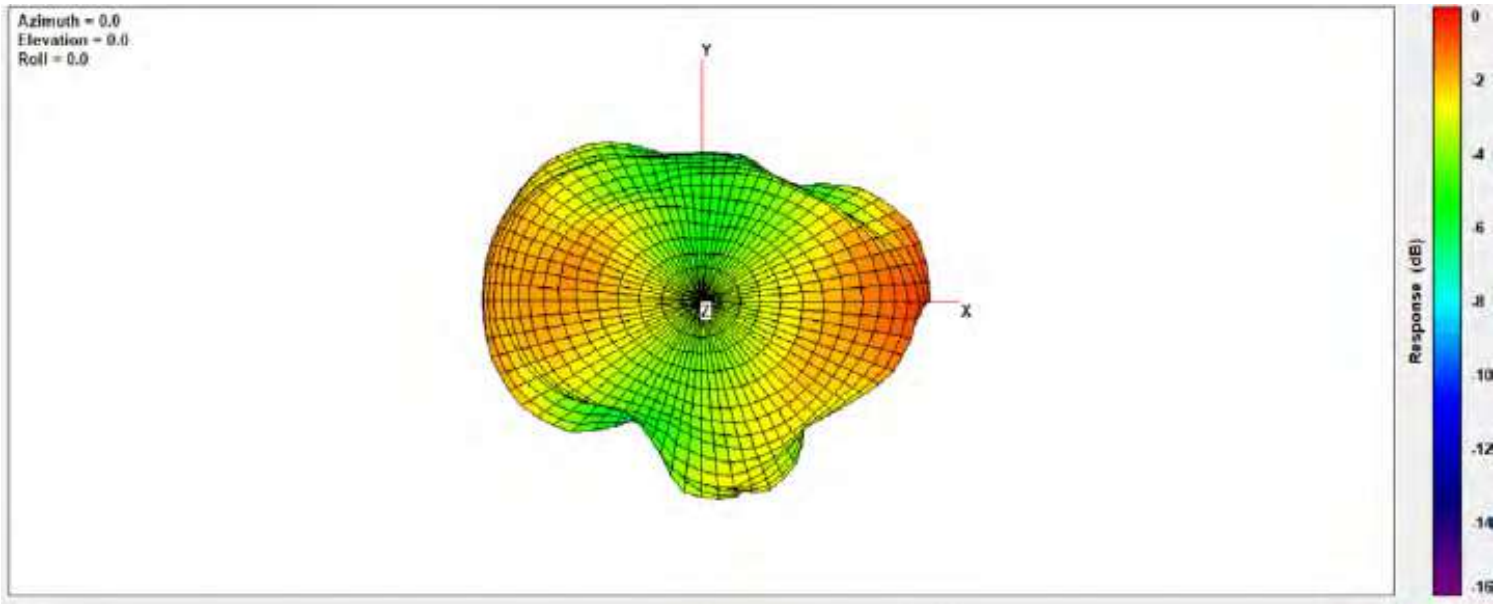
Center Frequency	**725MHz**
Peak Gain W/ Cable loss (dBi)	-0.82

734MHz



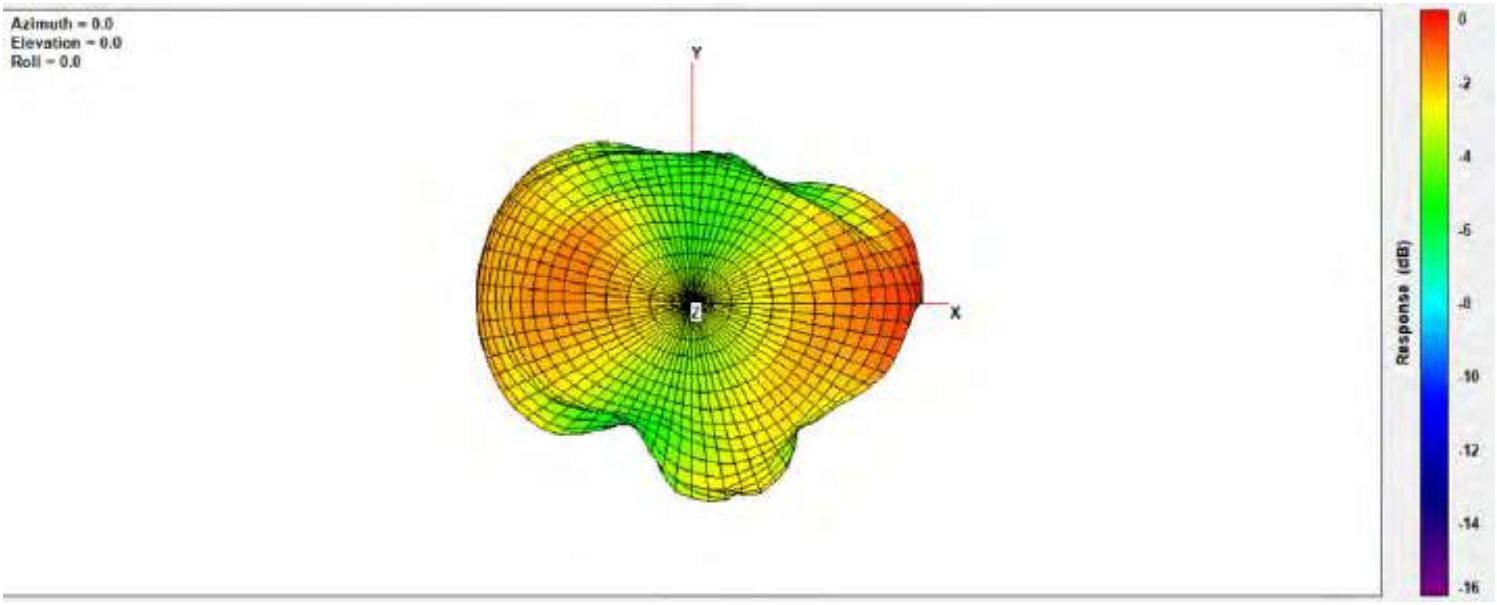
Center Frequency	**734MHz**
Peak Gain W/ Cable loss (dBi)	-0.67

740MHz



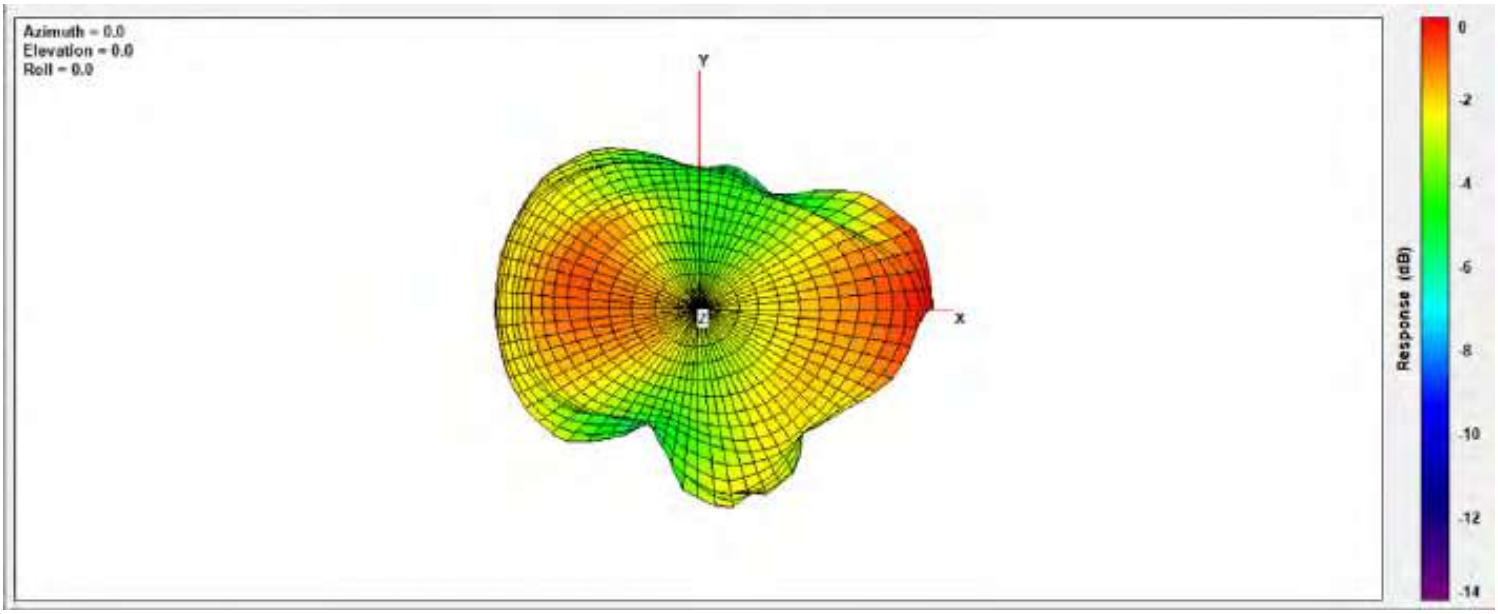
Center Frequency	**740MHz**
Peak Gain W/ Cable loss (dBi)	-0.55

746MHz



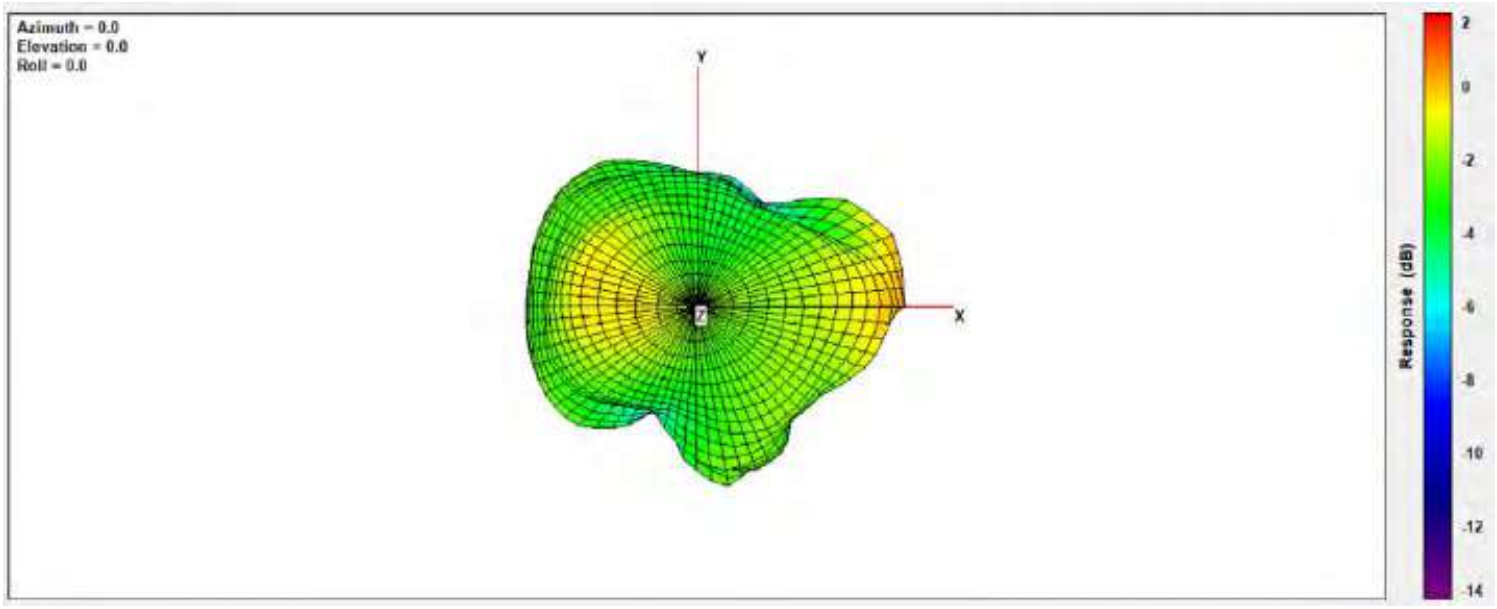
Center Frequency	**746MHz**
Peak Gain W/ Cable loss (dBi)	-0.40

756MHz



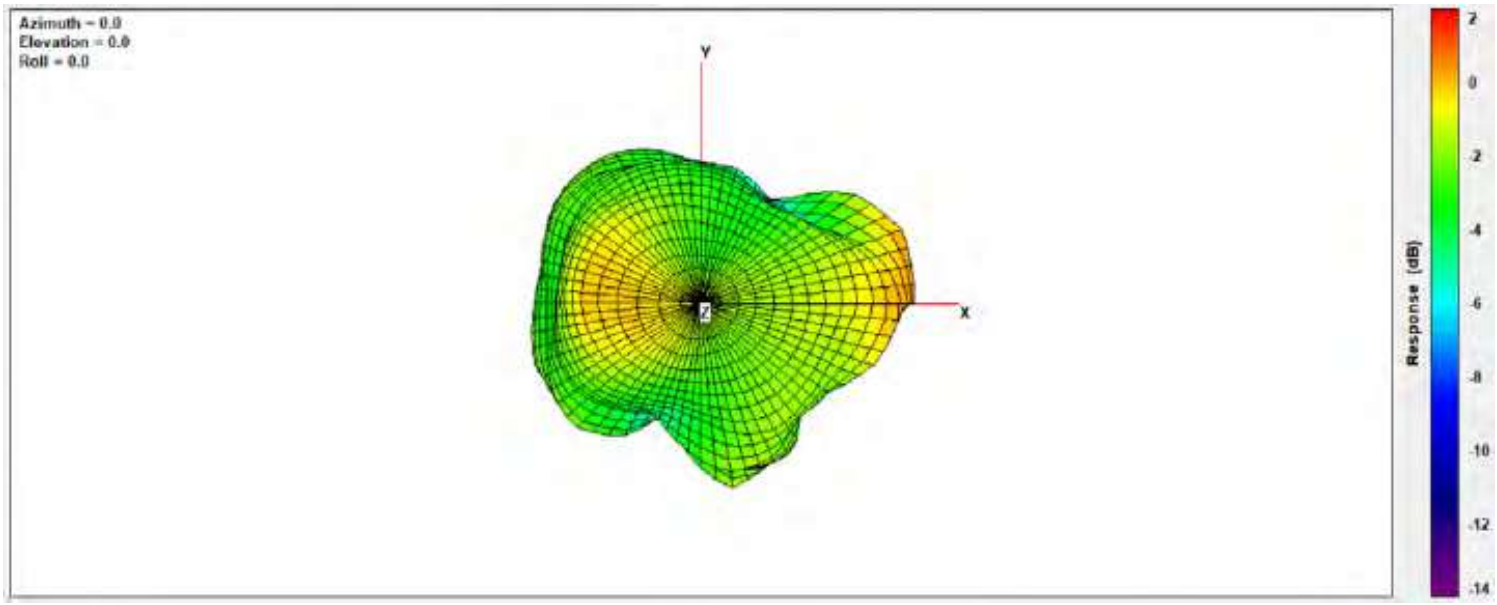
Center Frequency	**756MHz**
Peak Gain W/ Cable loss (dBi)	-0.03

765MHz



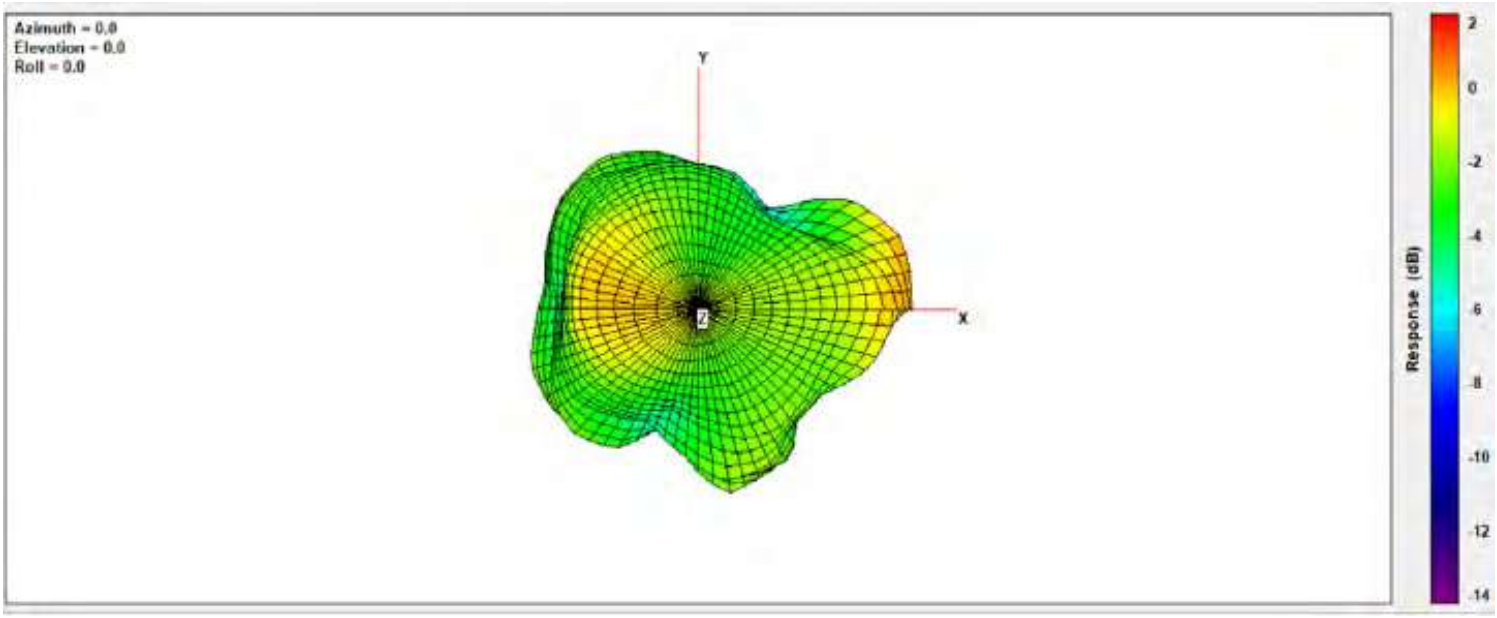
Center Frequency	**765MHz**
Peak Gain W/ Cable loss (dBi)	0.32

772MHz



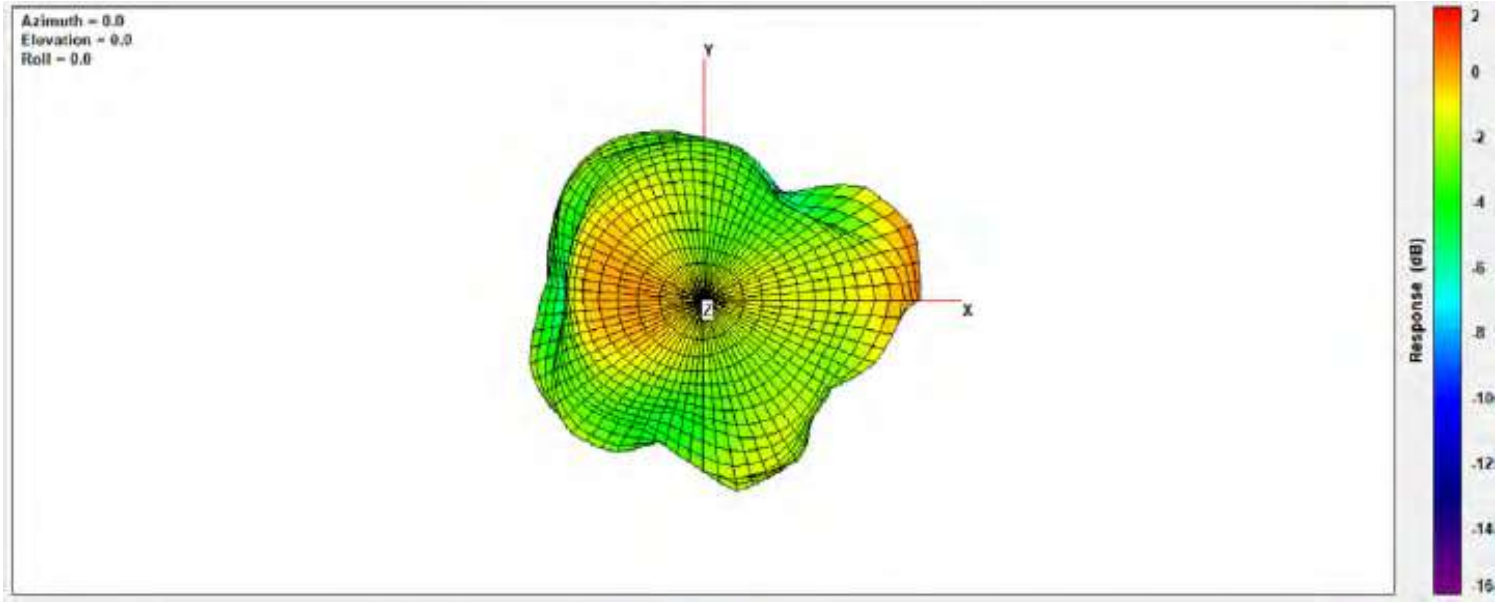
Center Frequency	**772MHz**
Peak Gain W/ Cable loss (dBi)	0.50

777MHz



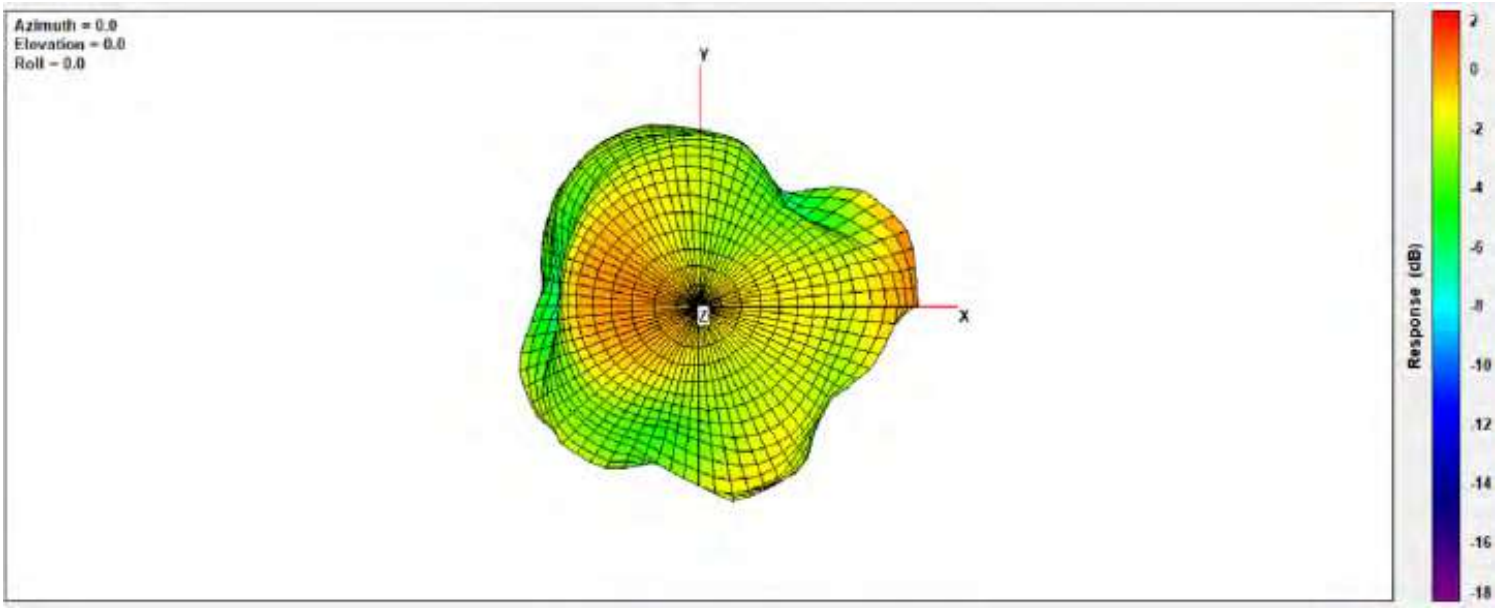
Center Frequency	**777MHz**
Peak Gain W/ Cable loss (dBi)	0.44

782MHz



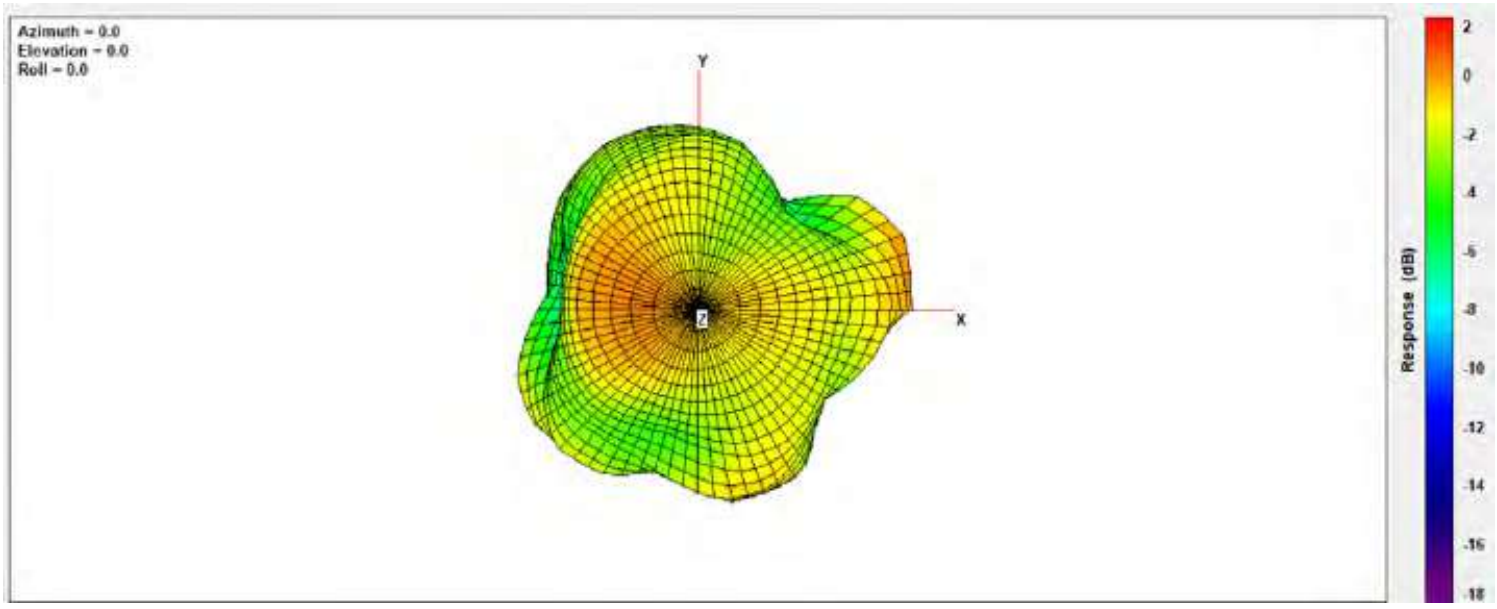
Center Frequency	**782MHz**
Peak Gain W/ Cable loss (dBi)	0.77

787MHz



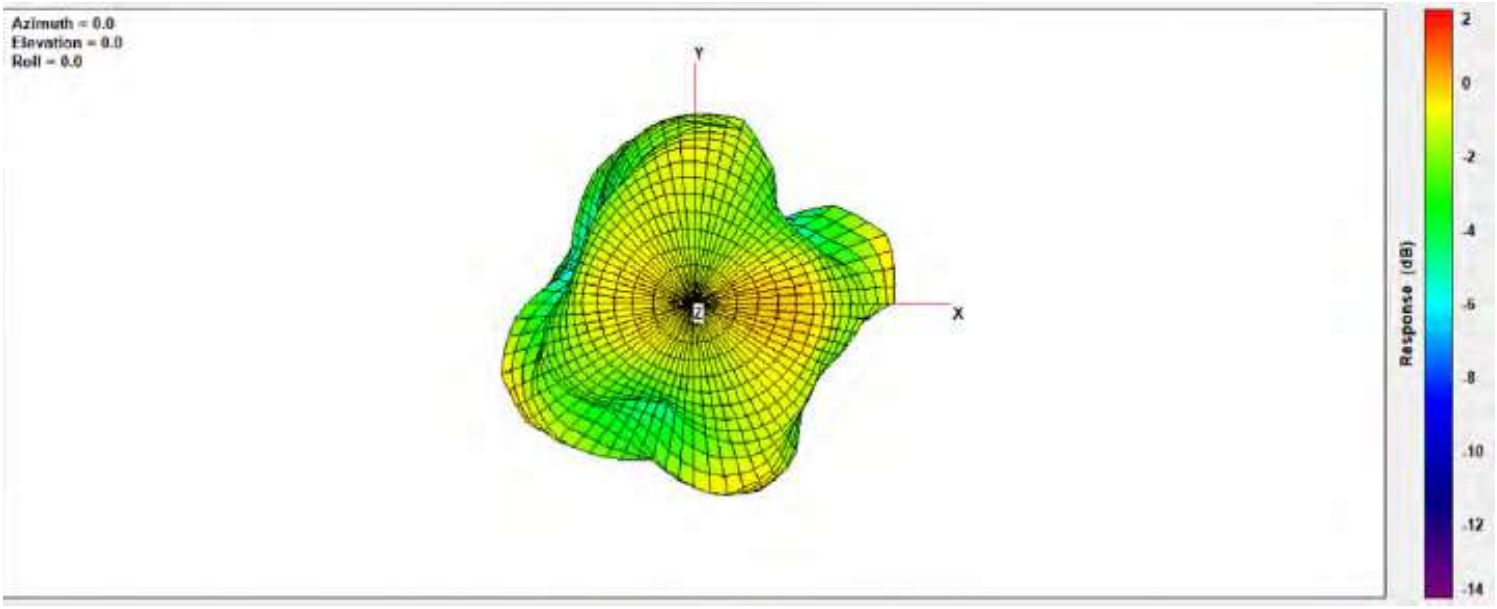
Center Frequency	**787MHz**
Peak Gain W/ Cable loss (dBi)	0.59

791MHz



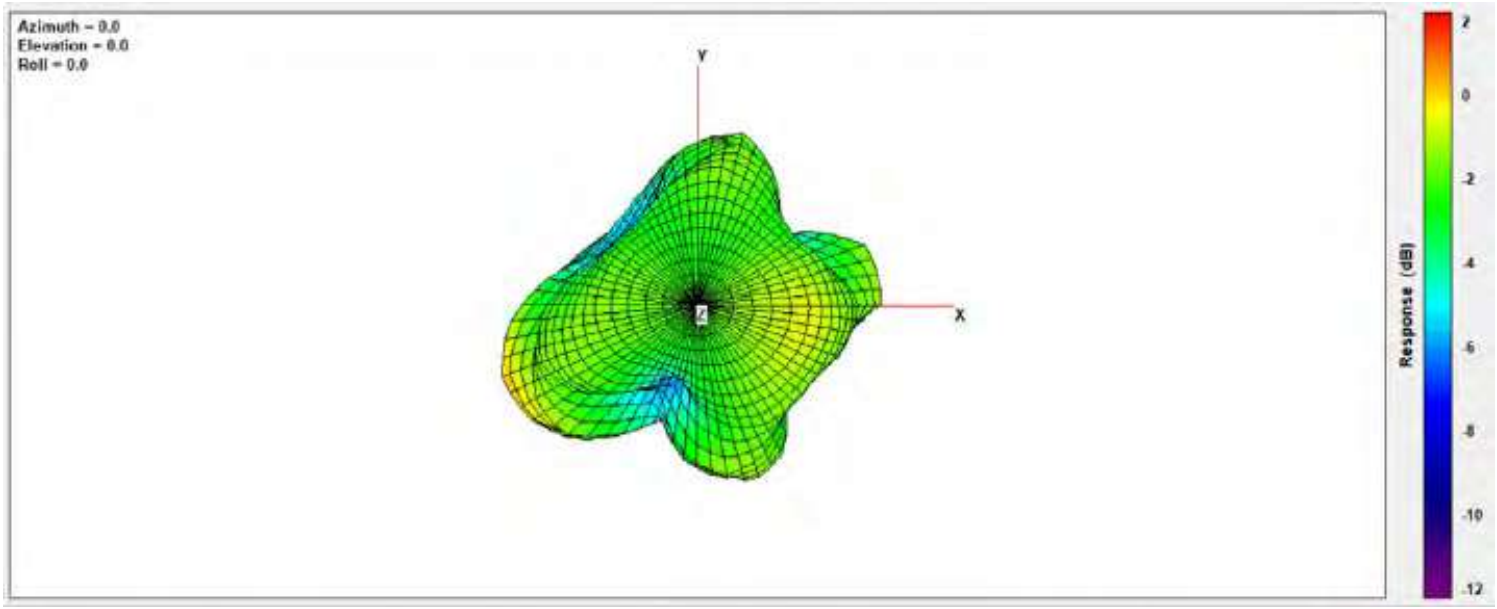
Center Frequency	**791MHz**
Peak Gain W/ Cable loss (dBi)	0.50

806MHz



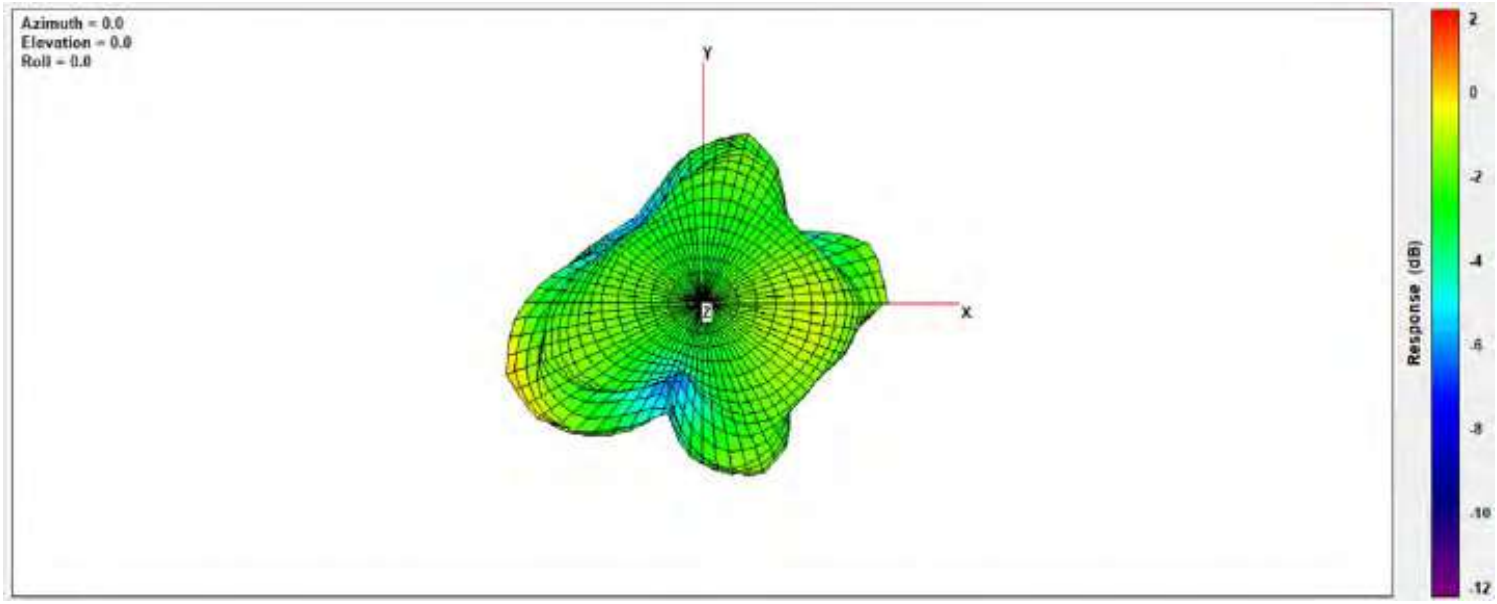
Center Frequency	**806MHz**
Peak Gain W/ Cable loss (dBi)	0.32

821MHz



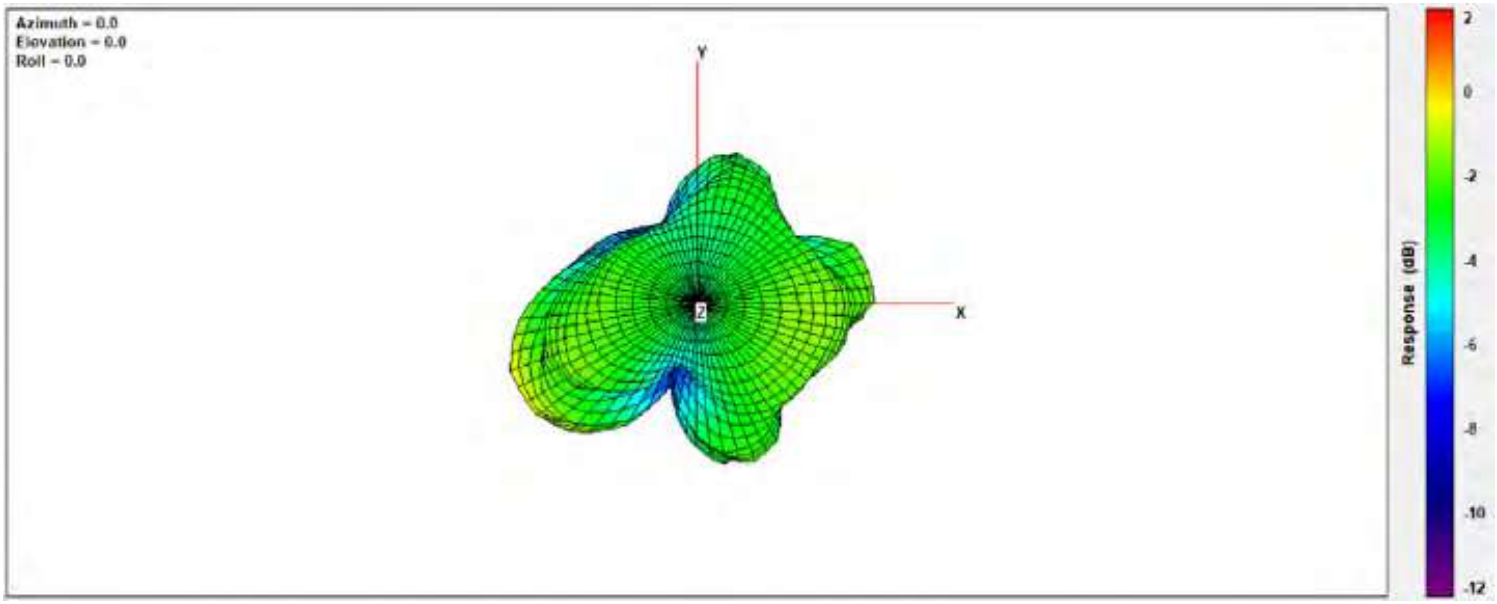
Center Frequency	**821MHz**
Peak Gain W/ Cable loss (dBi)	0.66

824MHz



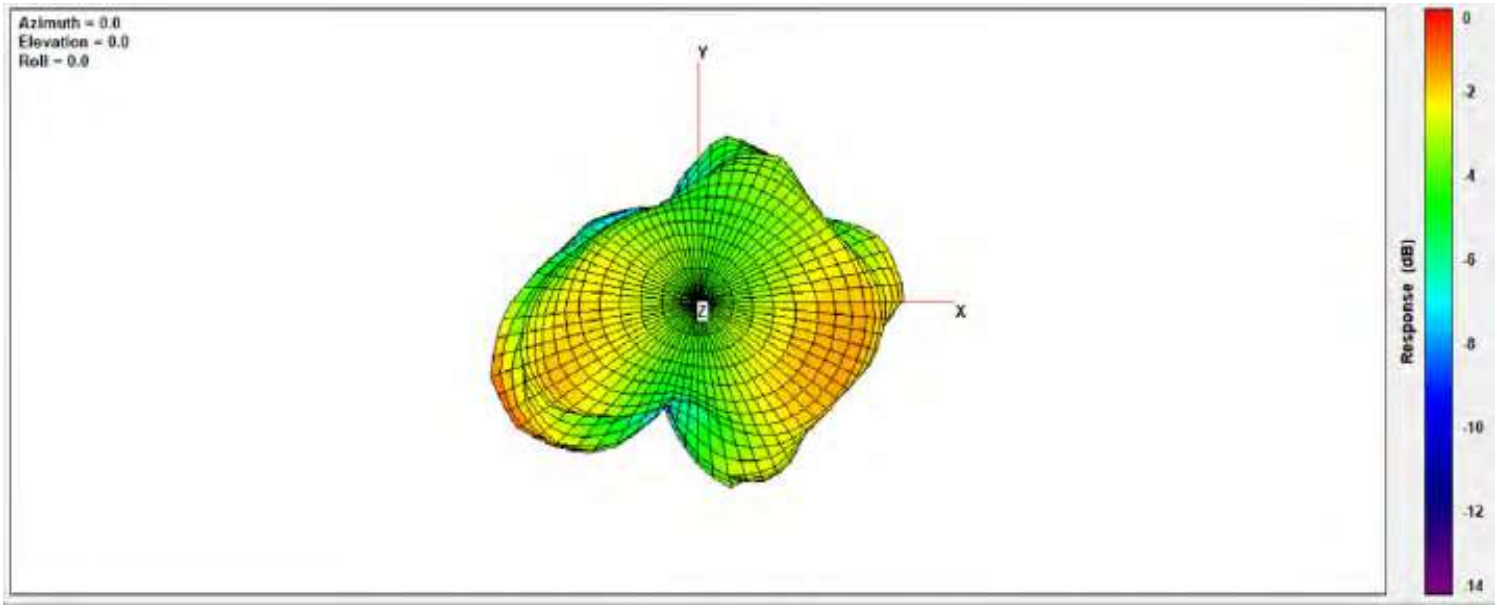
Center Frequency	**824MHz**
Peak Gain W/ Cable loss (dBi)	0.60

836MHz



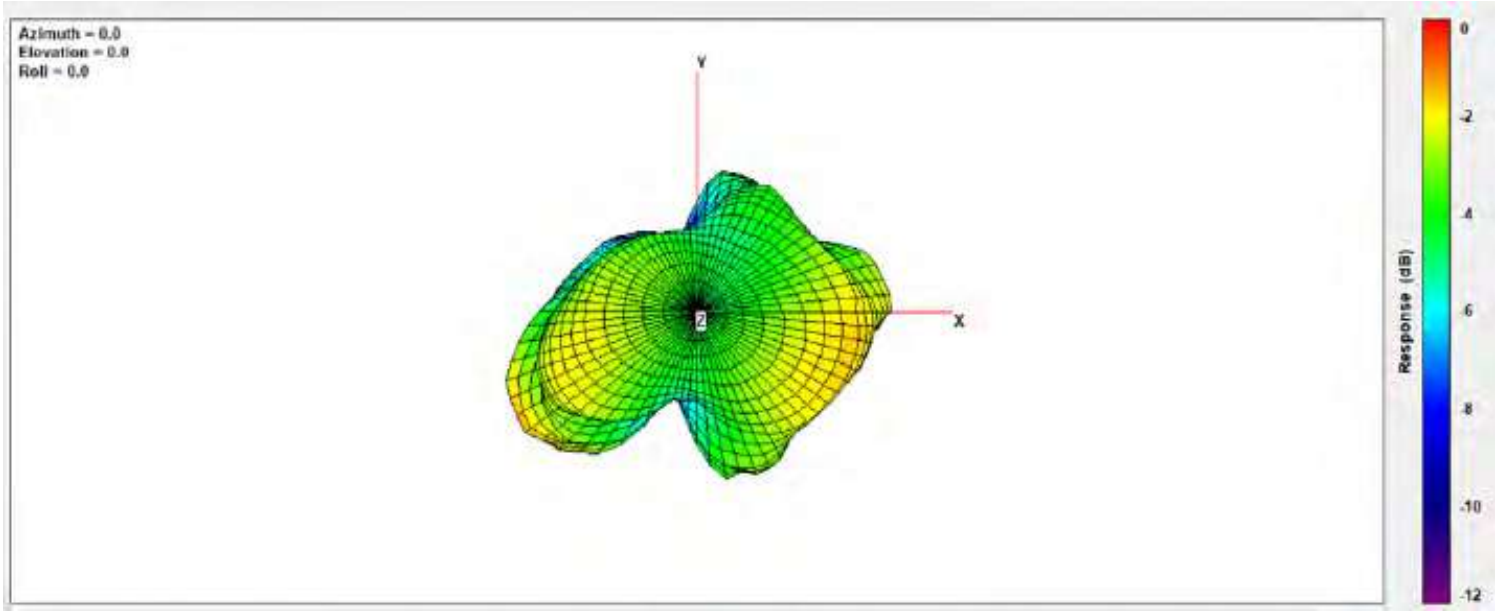
Center Frequency	**836MHz**
Peak Gain W/ Cable loss (dBi)	0.26

849MHz



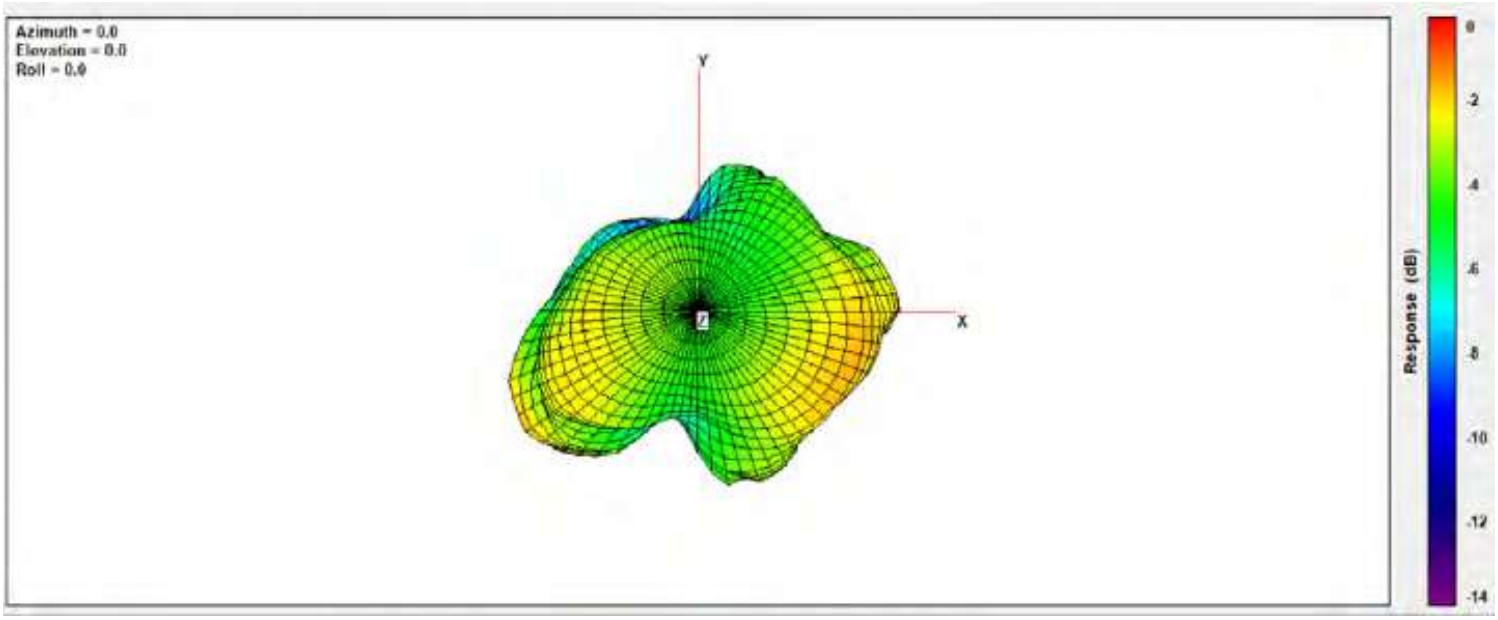
Center Frequency	**849MHz**
Peak Gain W/ Cable loss (dBi)	-0.45

862MHz



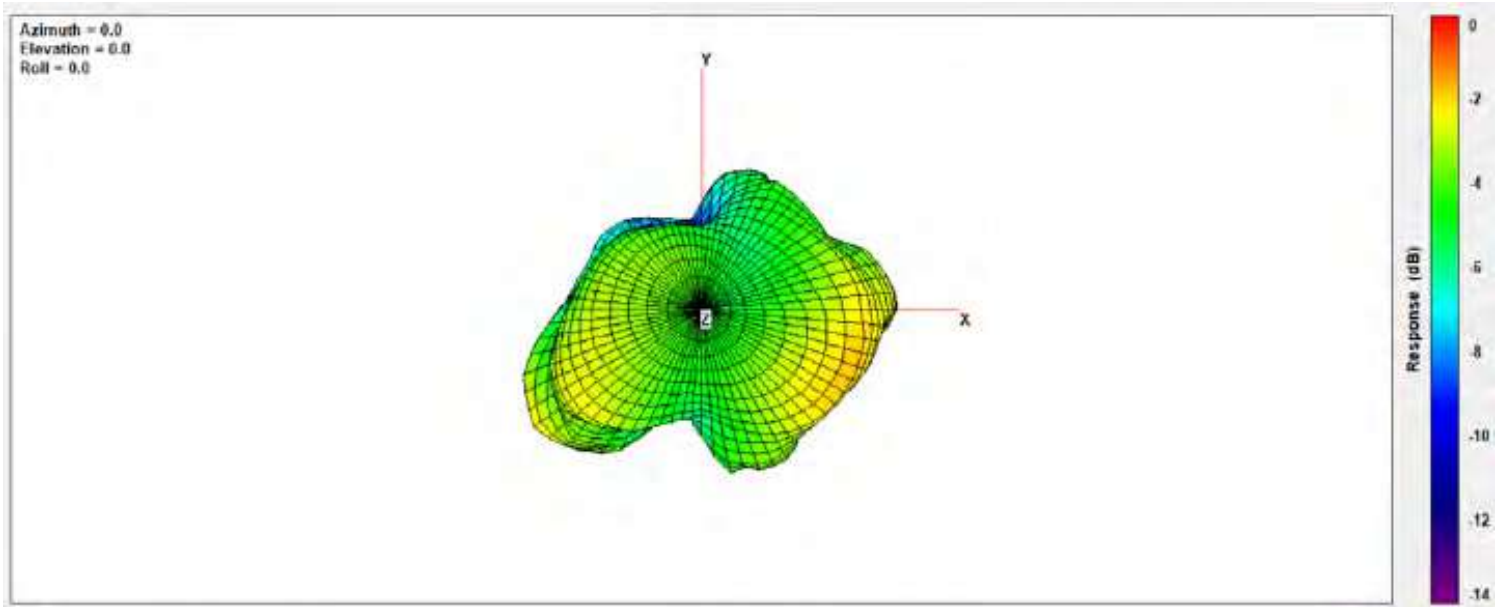
Center Frequency	**862MHz**
Peak Gain W/ Cable loss (dBi)	-0.84

869MHz



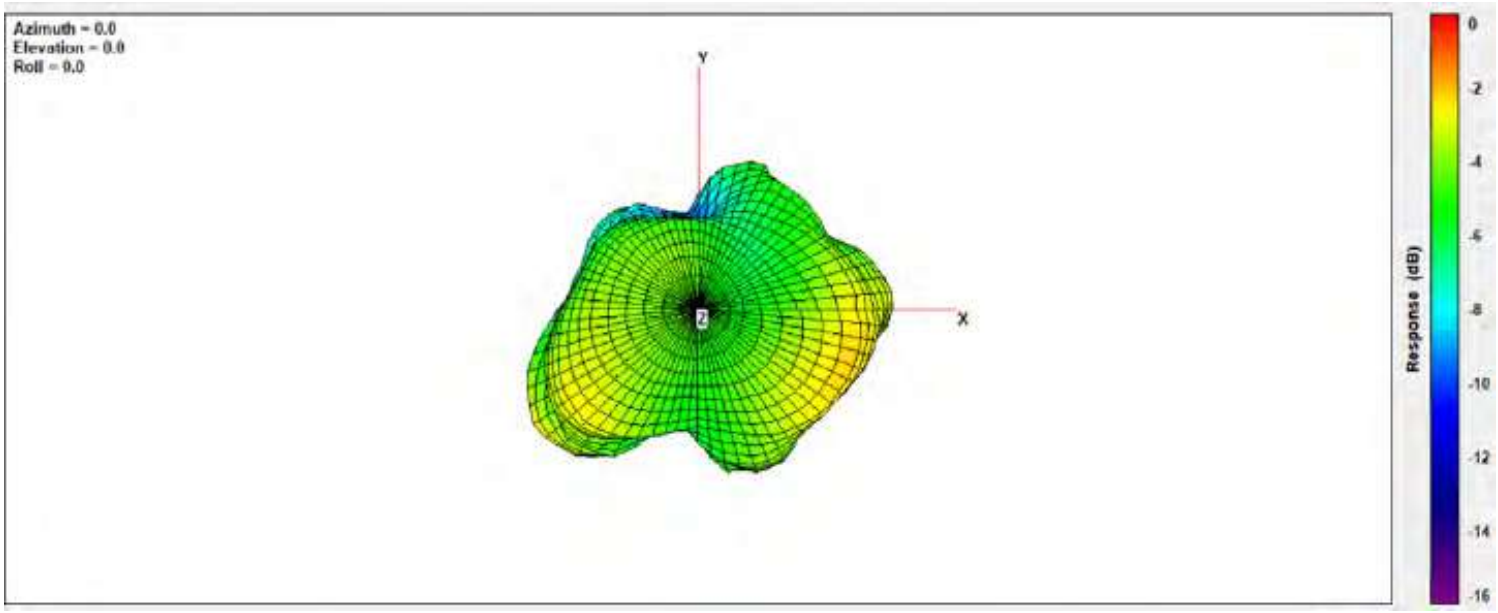
Center Frequency	**869MHz**
Peak Gain W/ Cable loss (dBi)	-1.12

880MHz



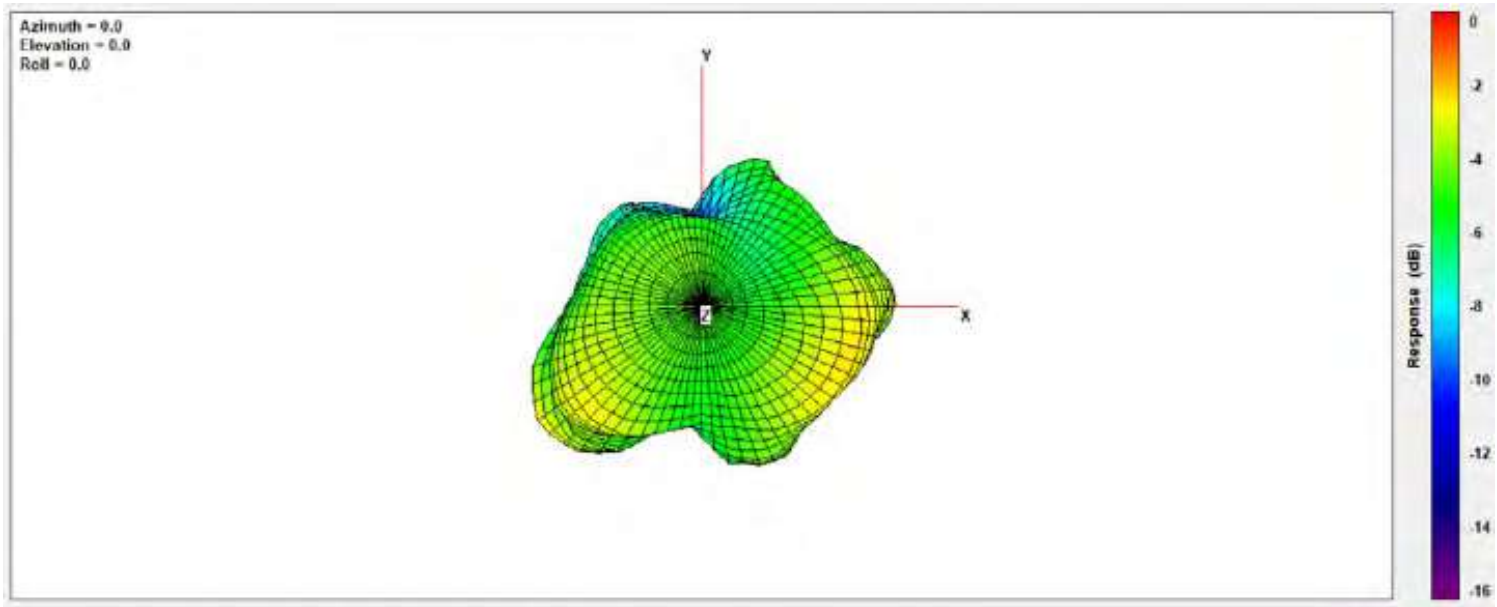
Center Frequency	**880MHz**
Peak Gain W/ Cable loss (dBi)	-1.56

894MHz



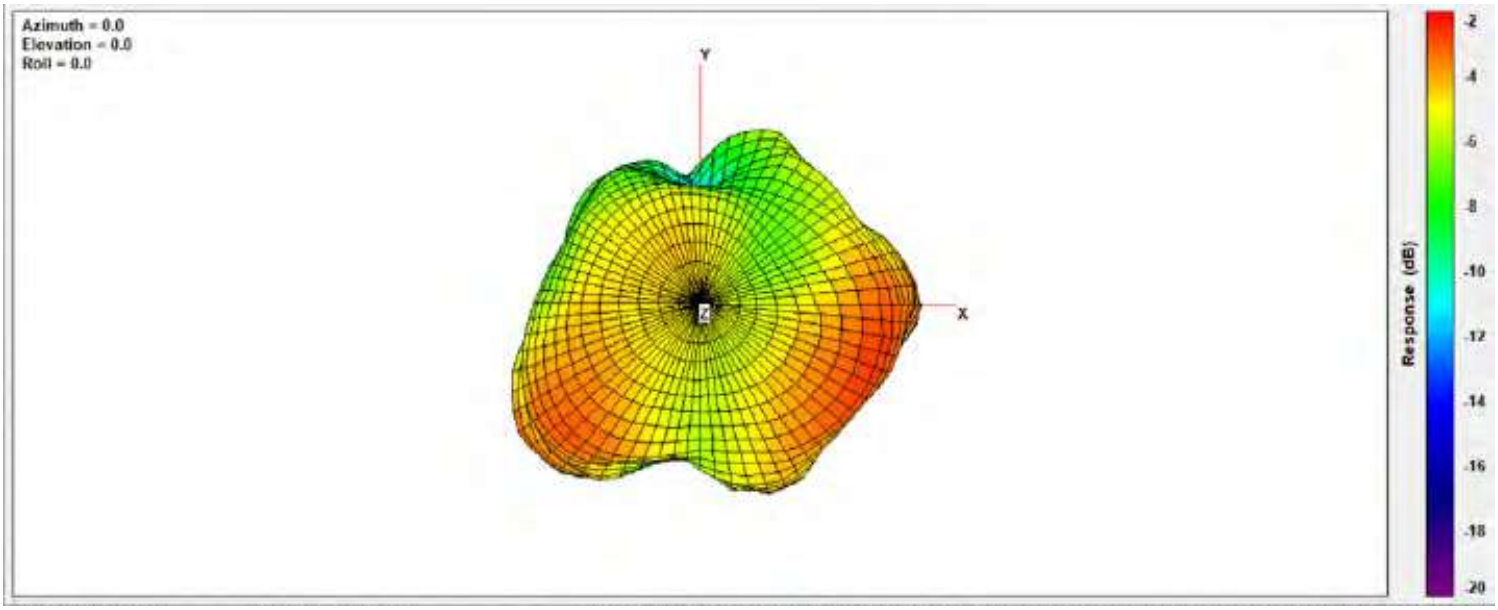
Center Frequency	**894MHz**
Peak Gain W/ Cable loss (dBi)	-1.83

900MHz



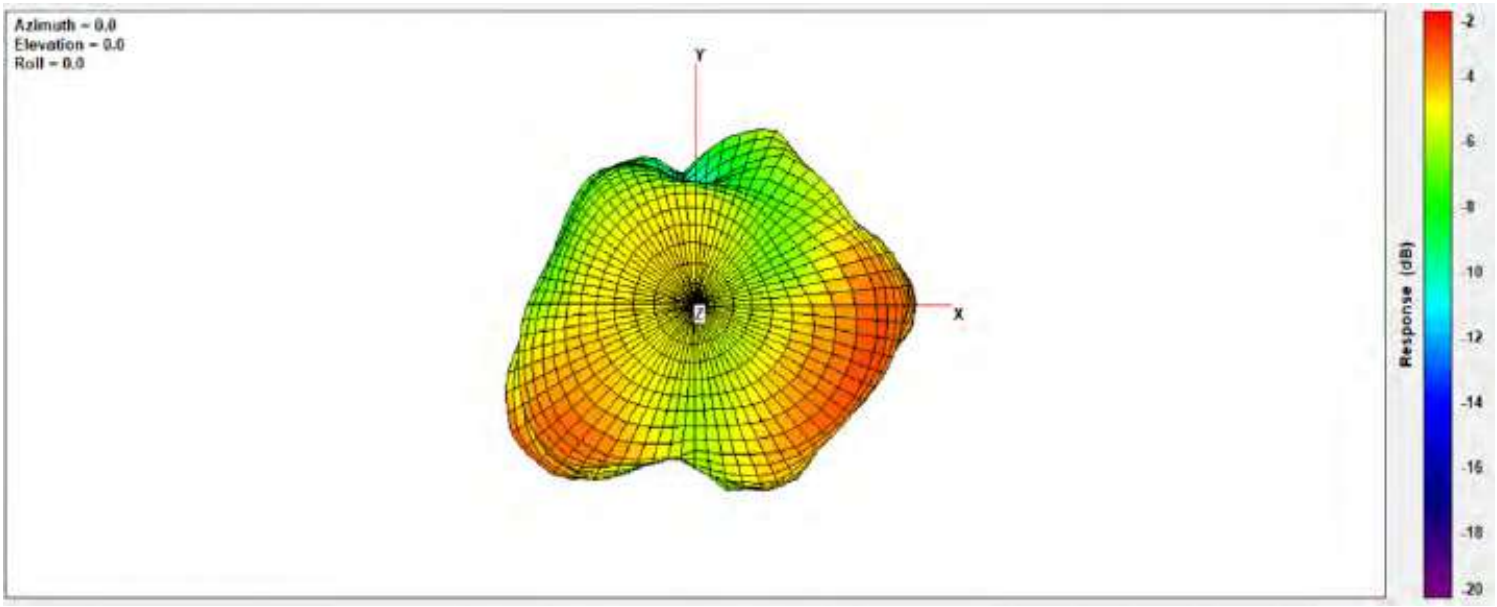
Center Frequency	**900MHz**
Peak Gain W/ Cable loss (dBi)	-1.89

915MHz



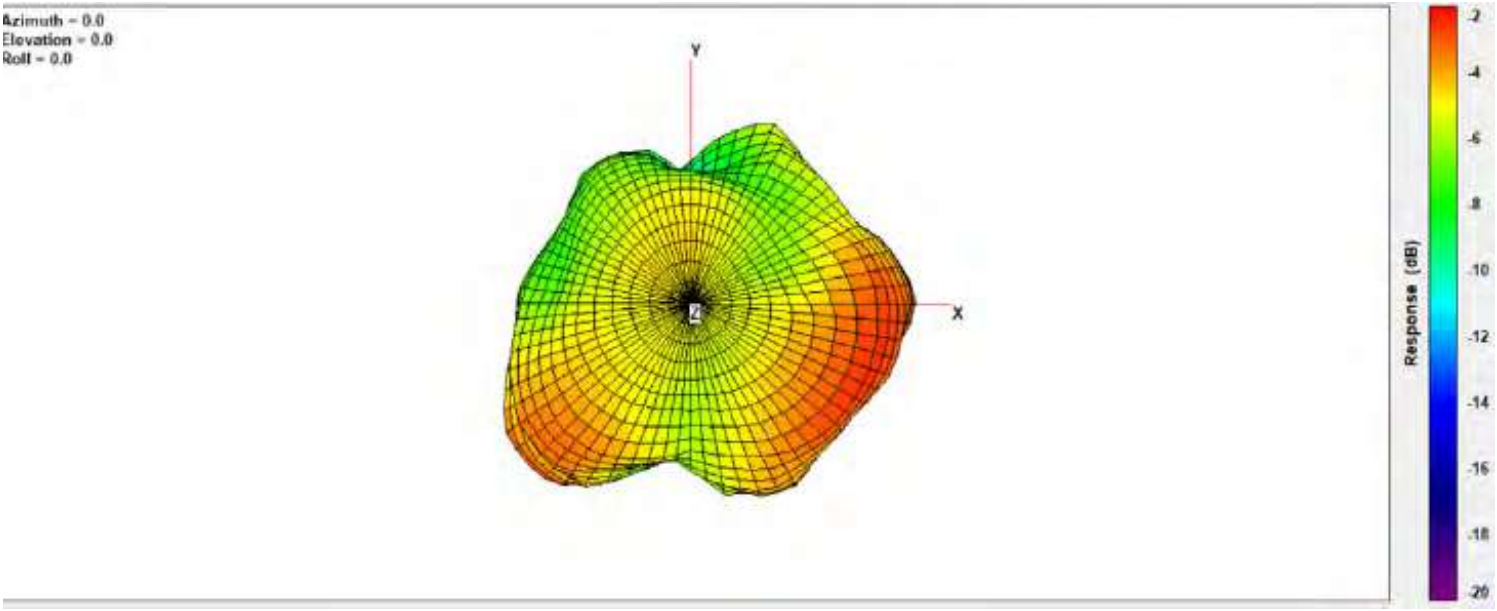
Center Frequency	**915MHz**
Peak Gain W/ Cable loss (dBi)	-2.07

925MHz



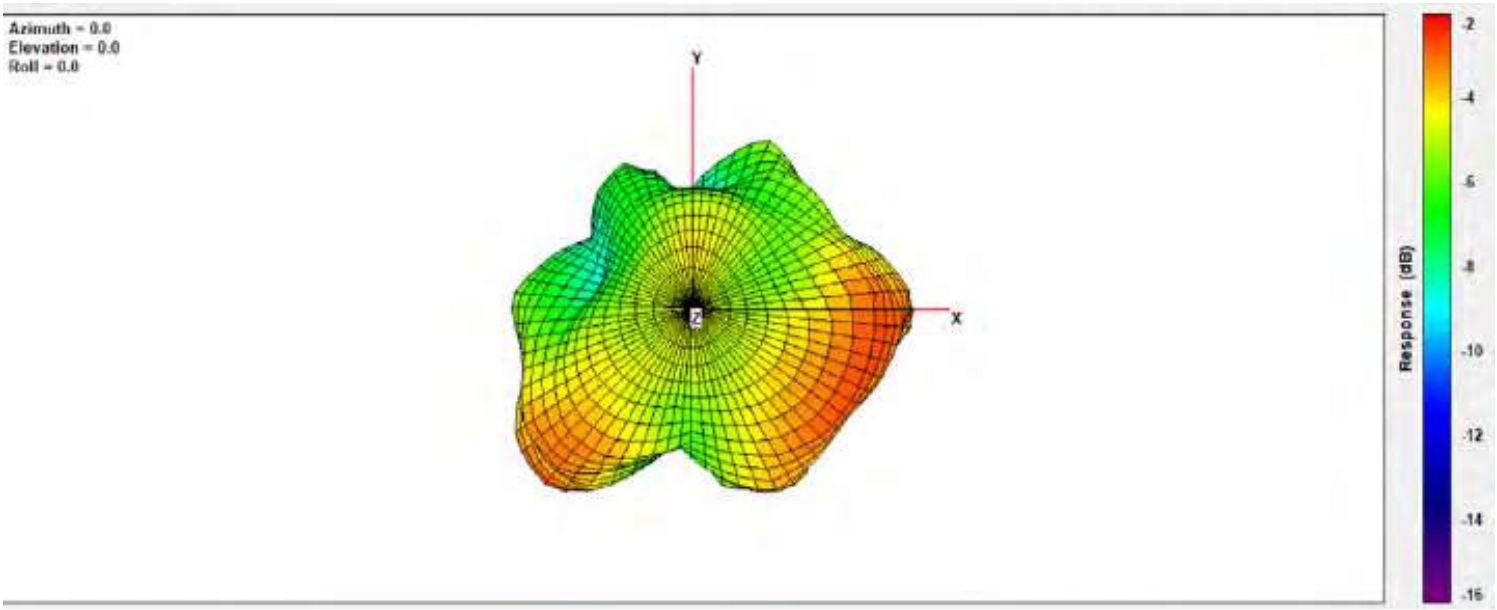
Center Frequency	**925MHz**
Peak Gain W/ Cable loss (dBi)	-2.30

940MHz



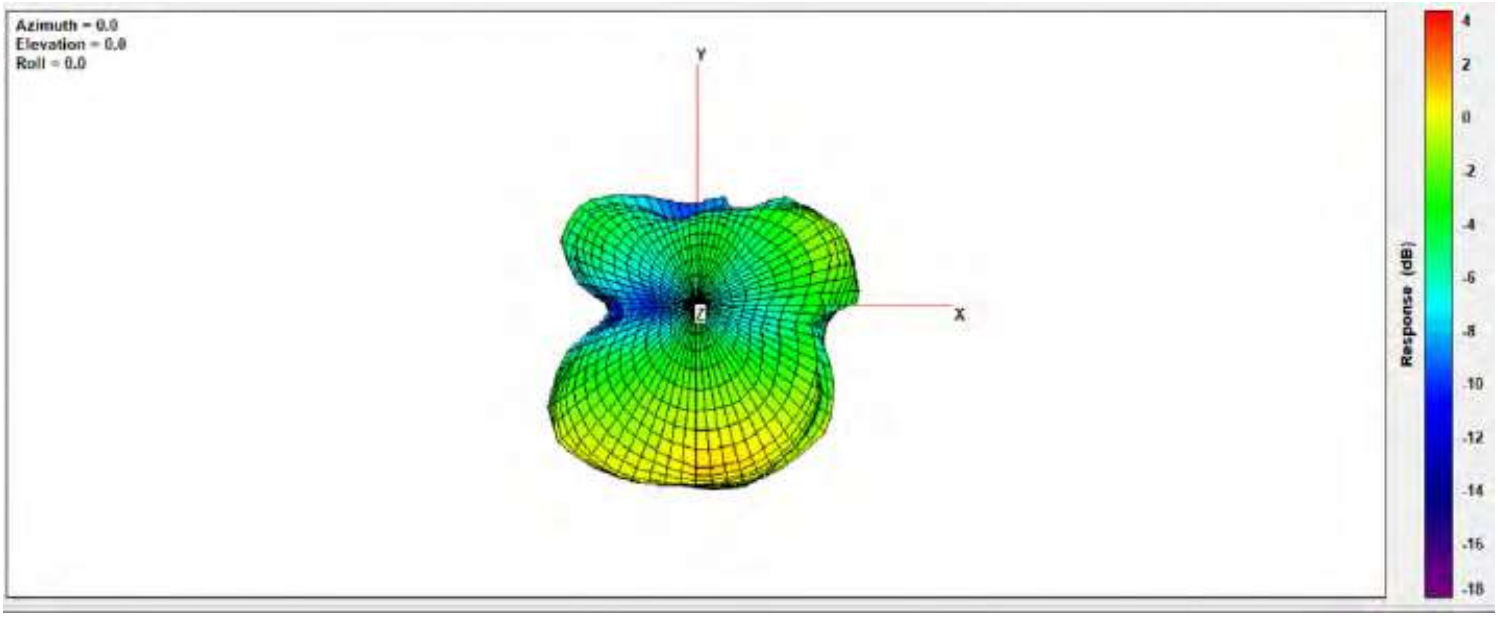
Center Frequency	**940MHz**
Peak Gain W/ Cable loss (dBi)	-2.37

960MHz



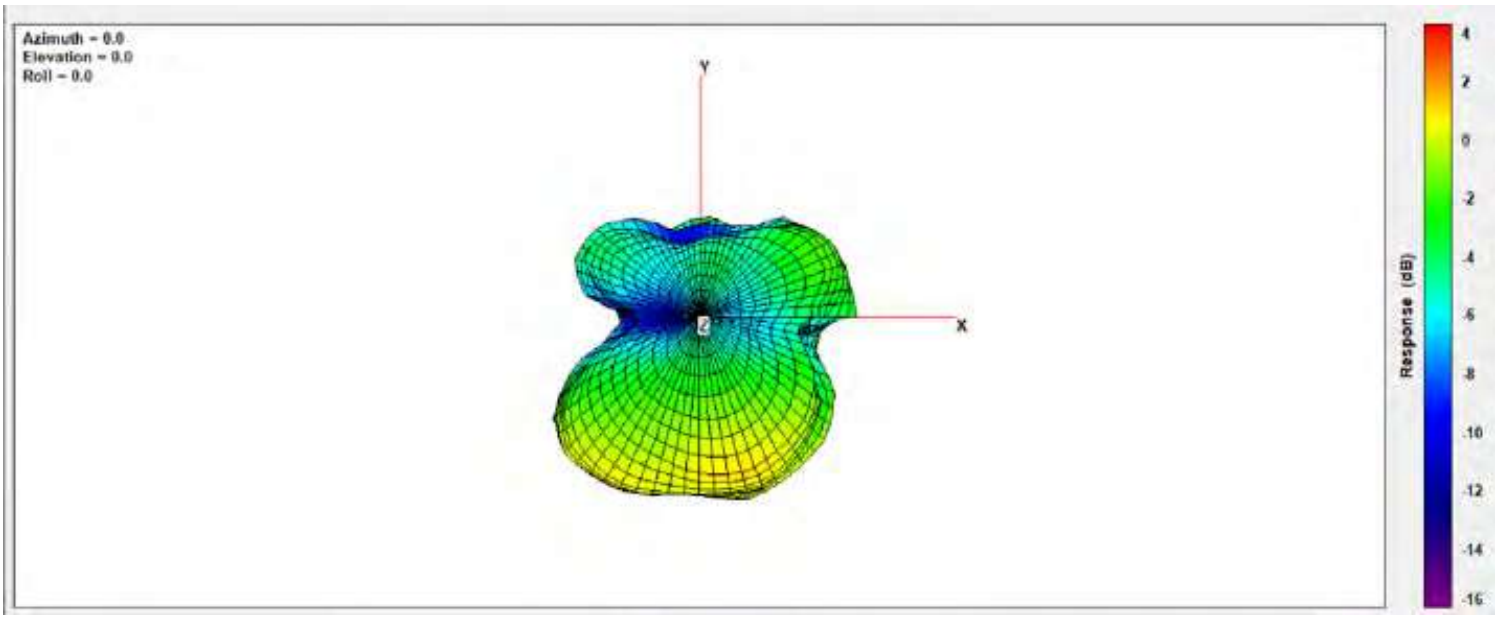
Center Frequency	**960MHz**
Peak Gain W/ Cable loss (dBi)	-2.30

1565MHz



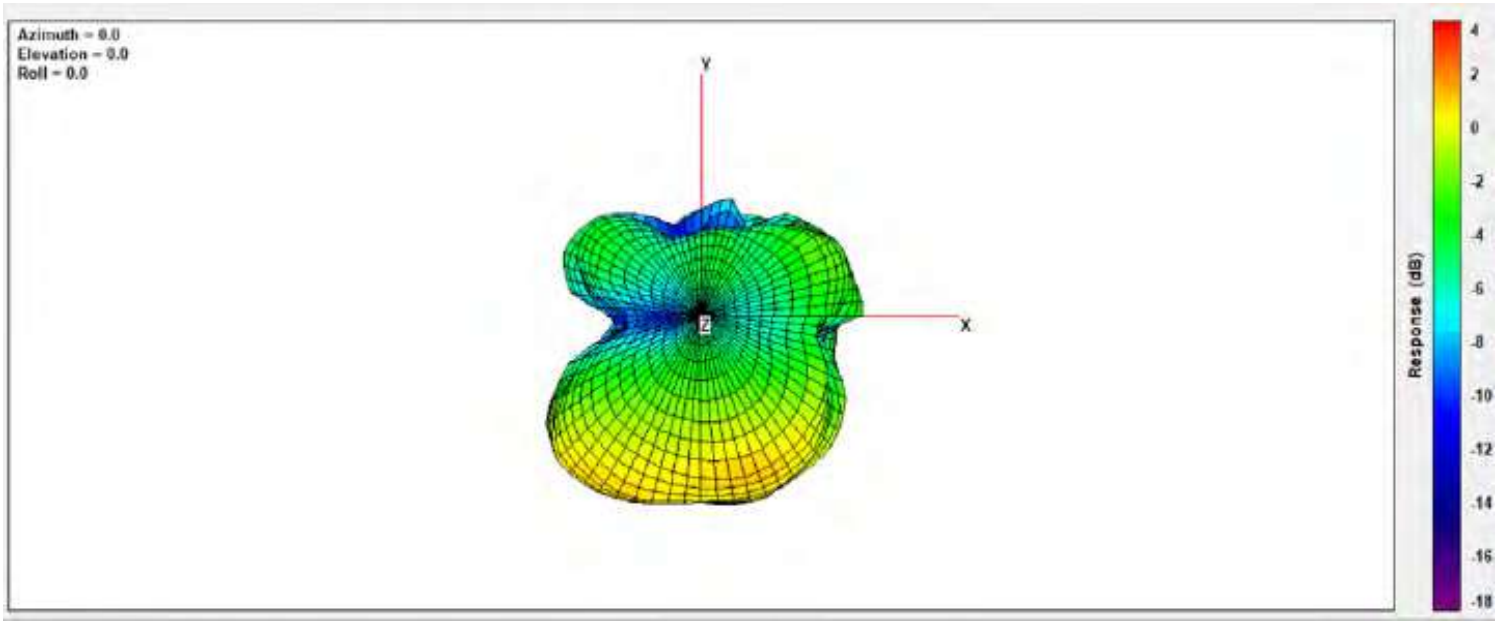
Center Frequency	**1565MHz**
Peak Gain W/ Cable loss (dBi)	2.01

1575MHz



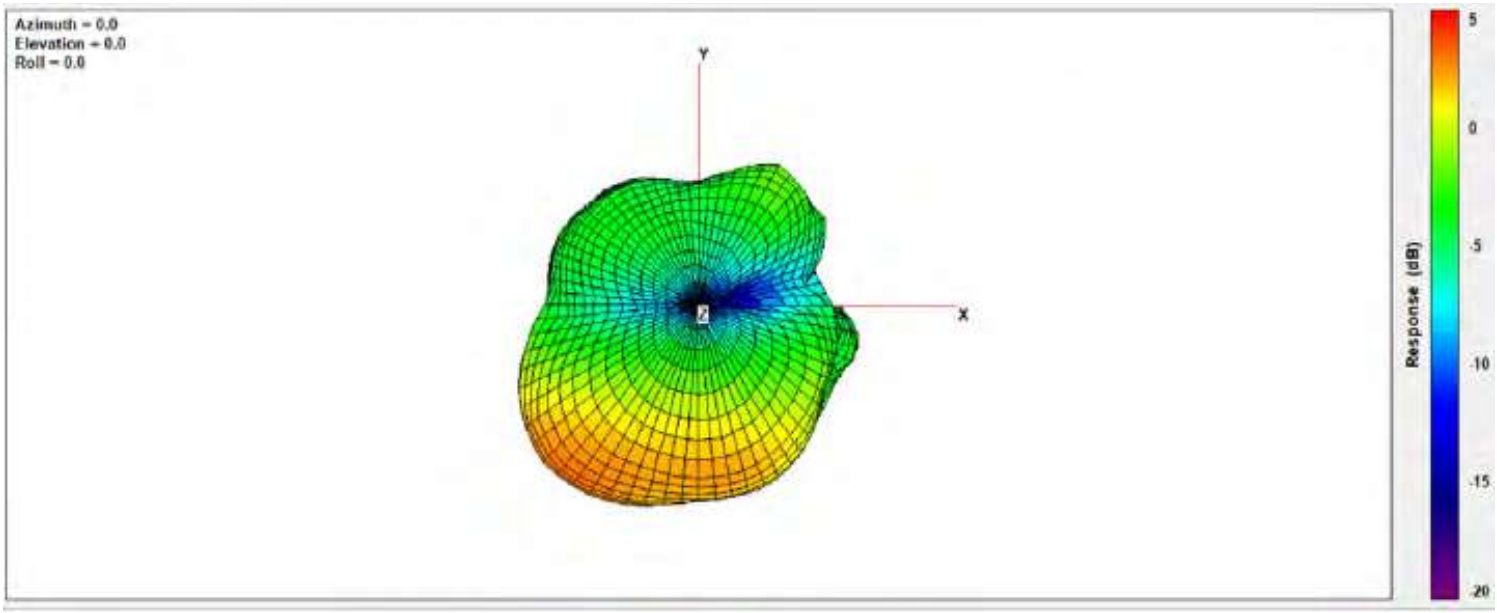
Center Frequency	**1575MHz**
Peak Gain W/ Cable loss (dBi)	2.46

1585MHz



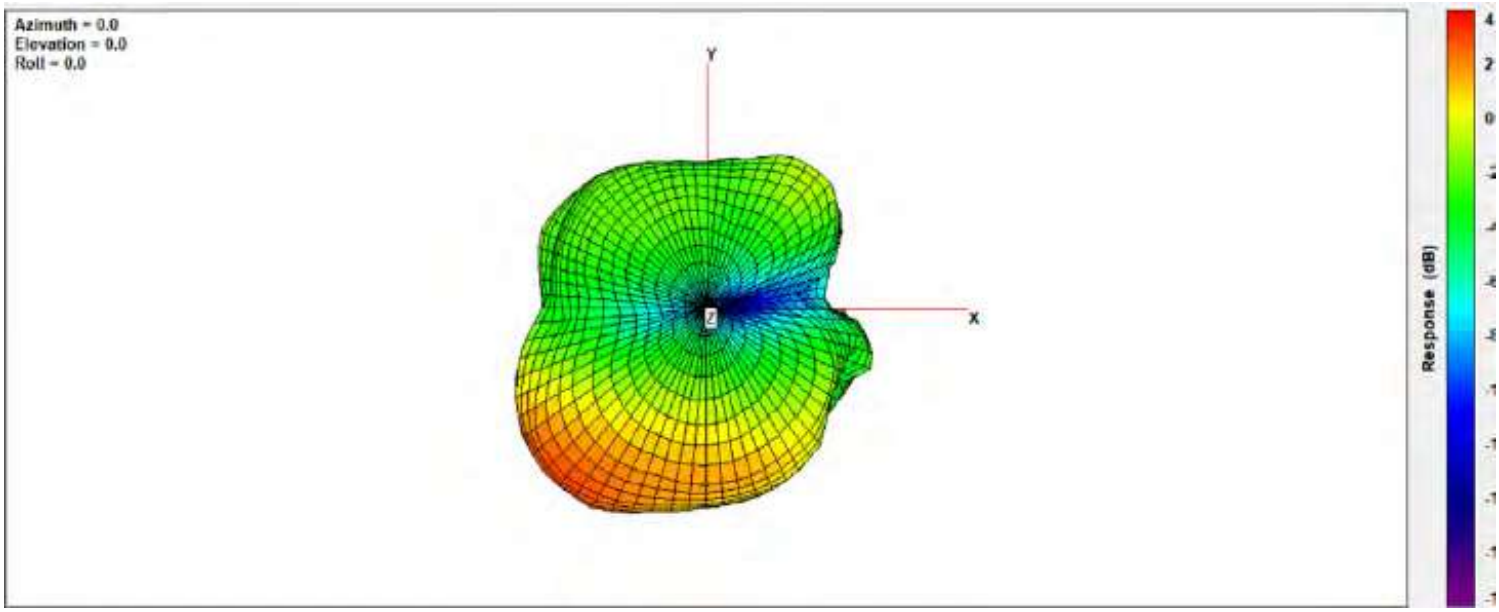
Center Frequency	**1585MHz**
Peak Gain W/ Cable loss (dBi)	2.53

1850MHz



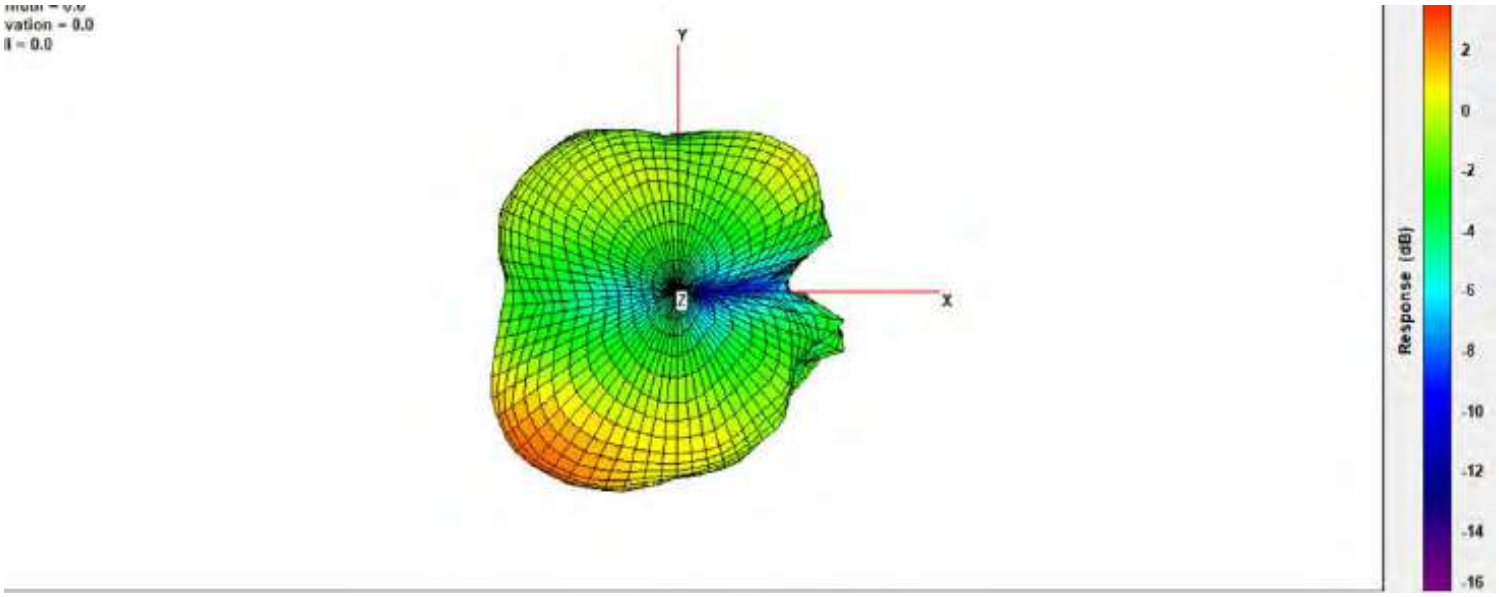
Center Frequency	**1850MHz**
Peak Gain W/ Cable loss (dBi)	3.32

1880MHz



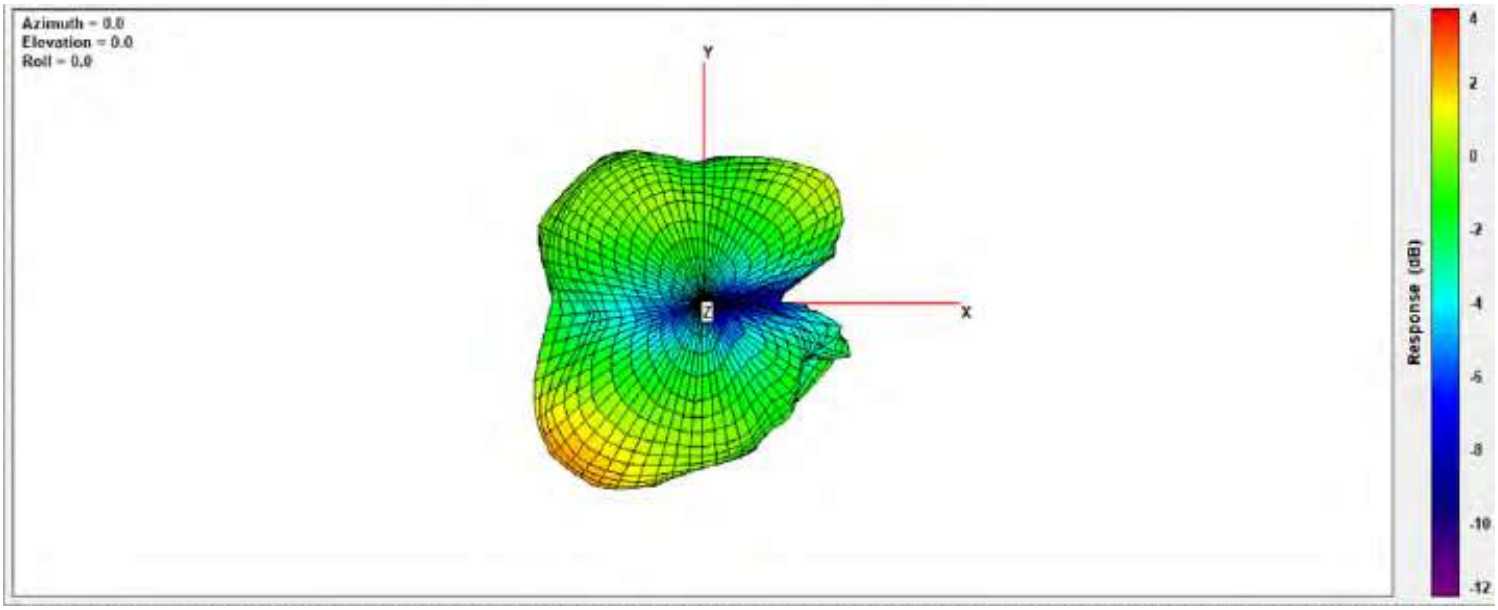
Center Frequency	**1880MHz**
Peak Gain W/ Cable loss (dBi)	3.12

1910MHz



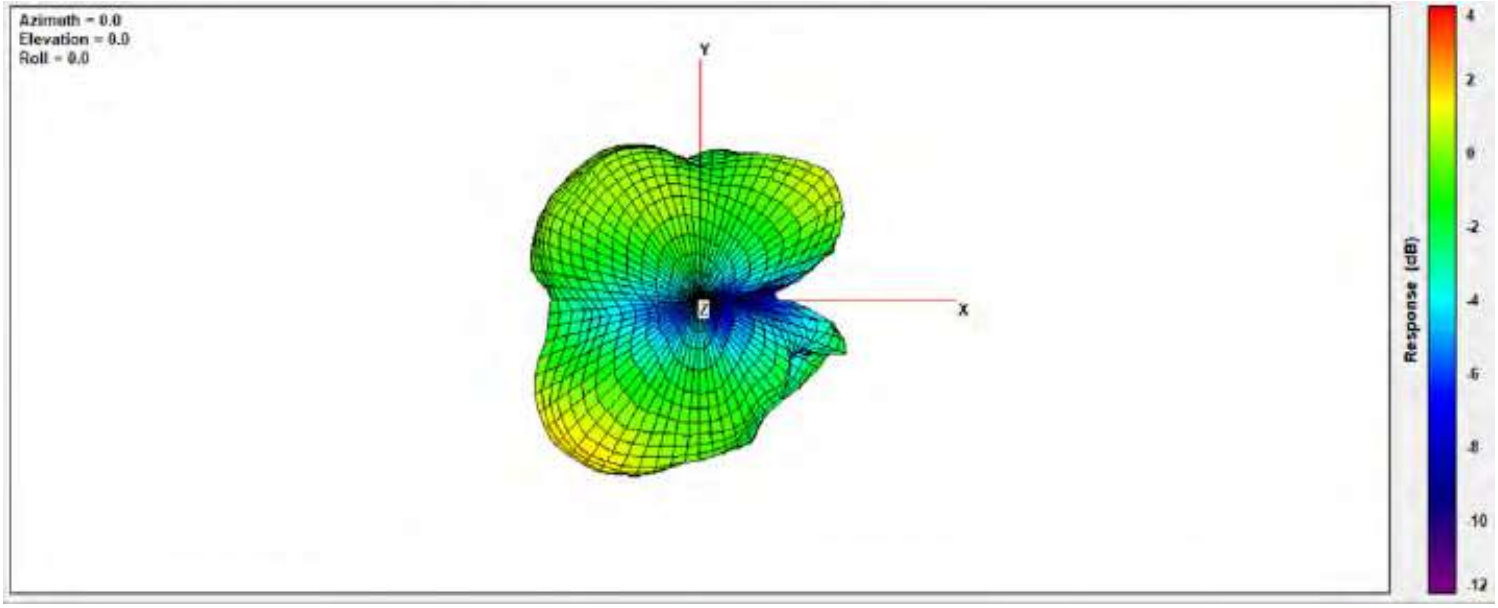
Center Frequency	**1910MHz**
Peak Gain W/ Cable loss (dBi)	2.87

1920MHz



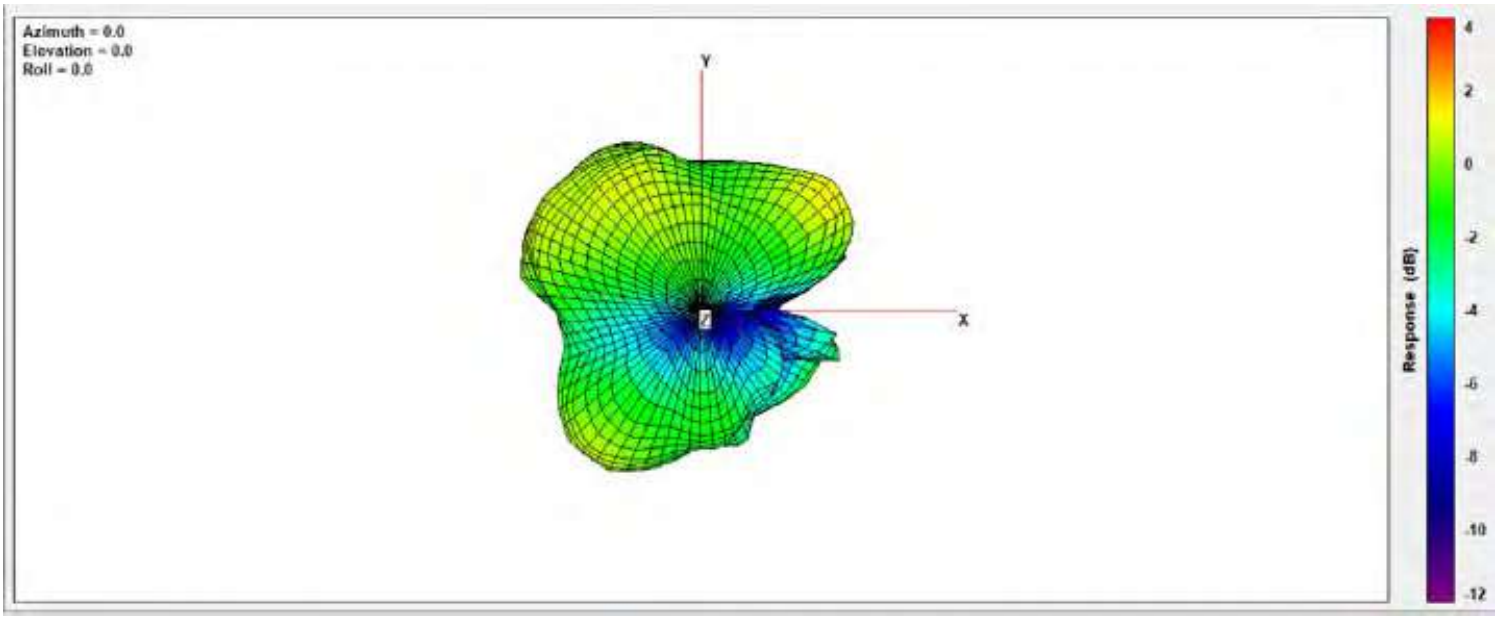
Center Frequency	**1920MHz**
Peak Gain W/ Cable loss (dBi)	2.50

1930MHz



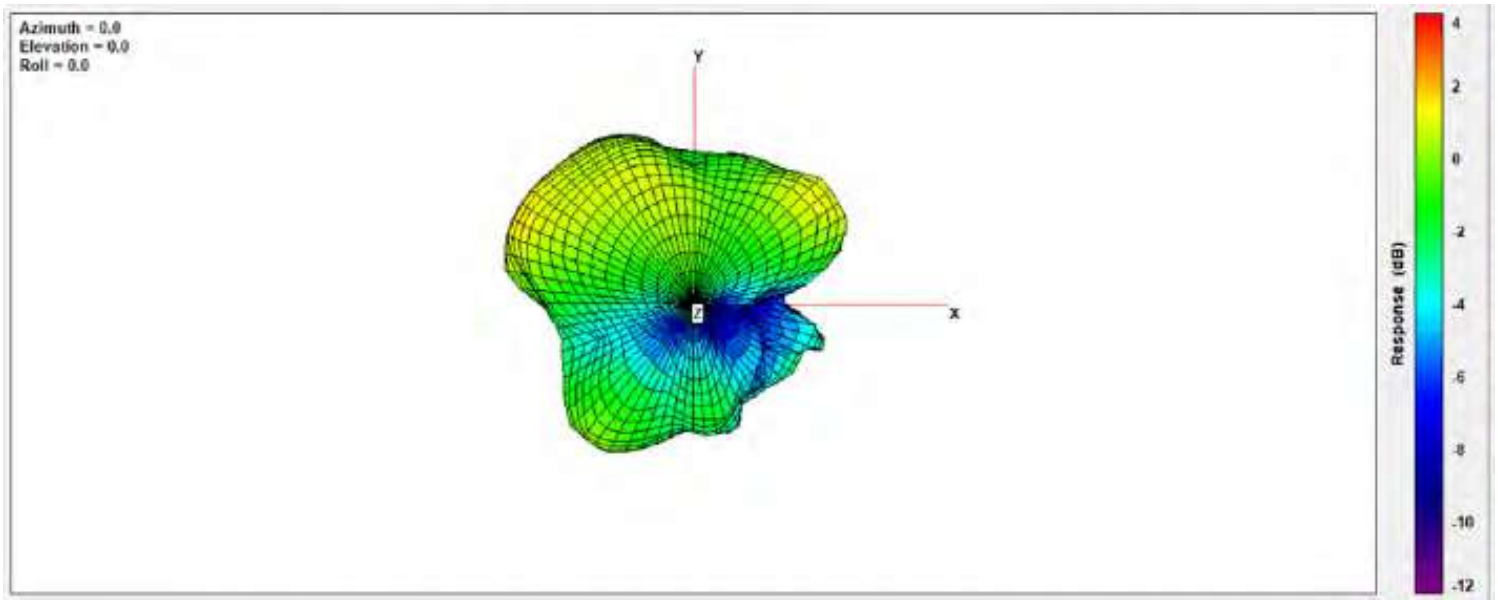
Center Frequency	**1930MHz**
Peak Gain W/ Cable loss (dBi)	2.34

1950MHz



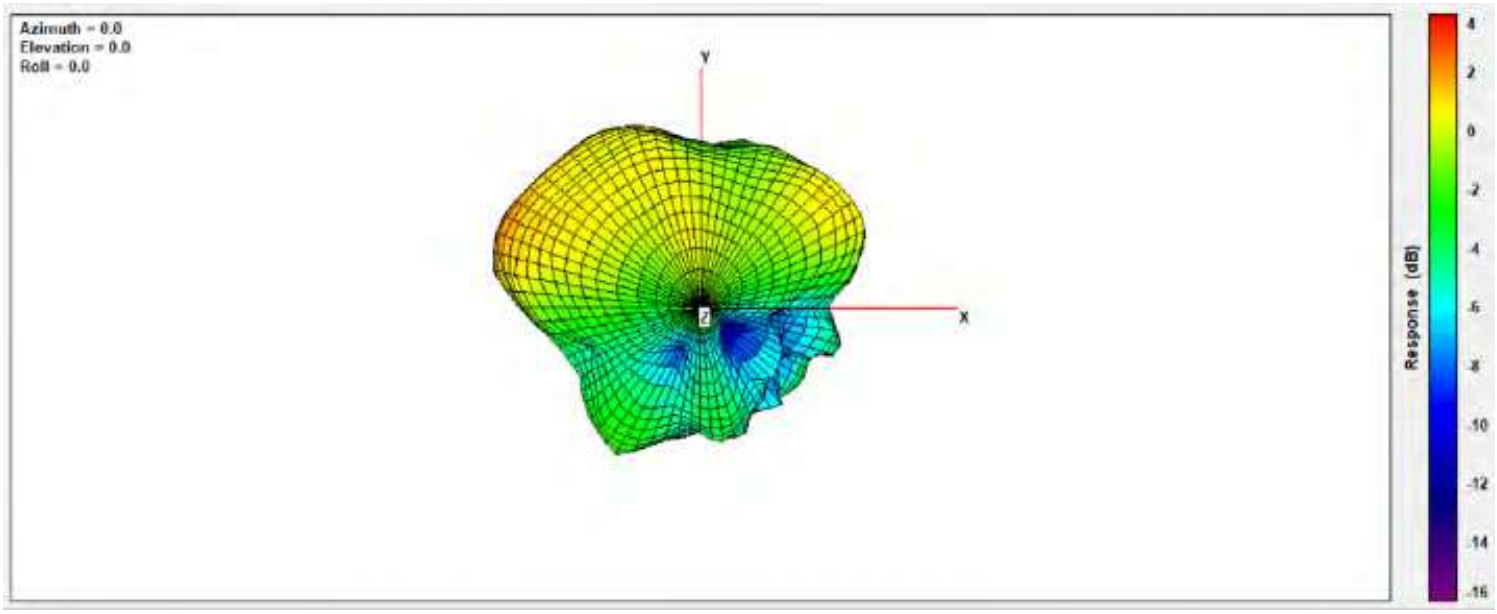
Center Frequency	**1950MHz**
Peak Gain W/ Cable loss (dBi)	3.40

1960MHz



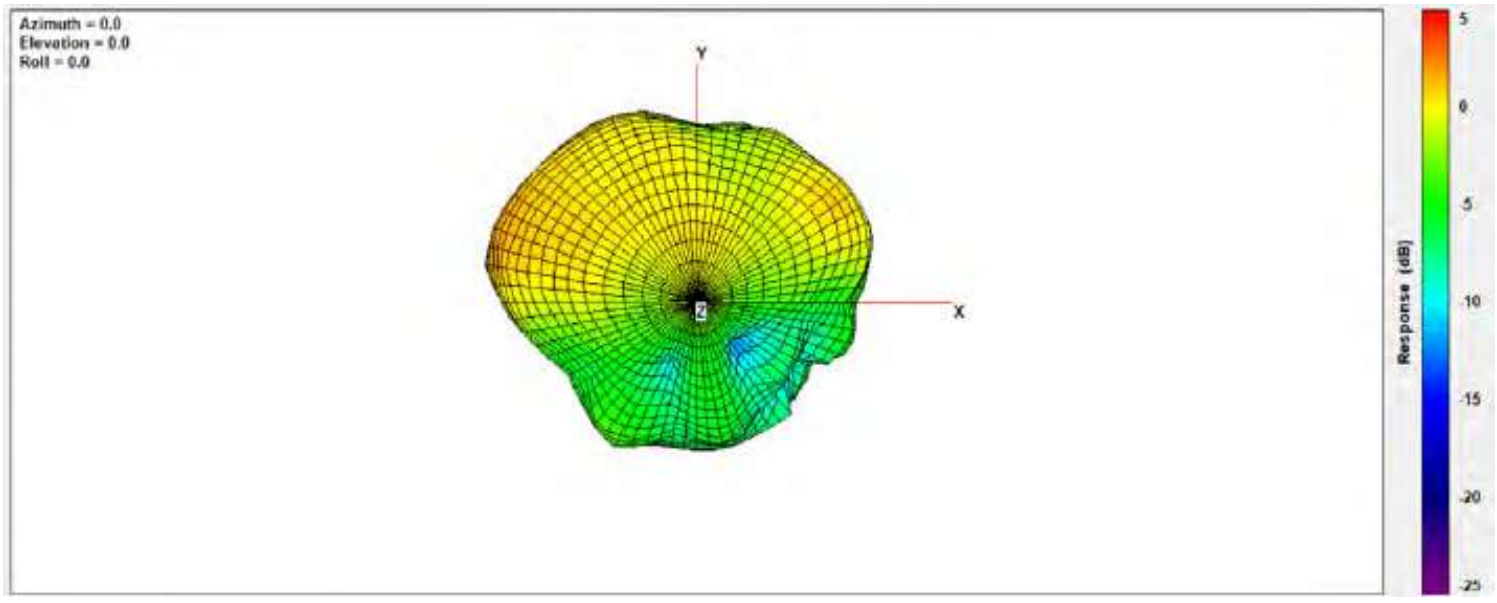
Center Frequency	**1960MHz**
Peak Gain W/ Cable loss (dBi)	3.73

1980MHz



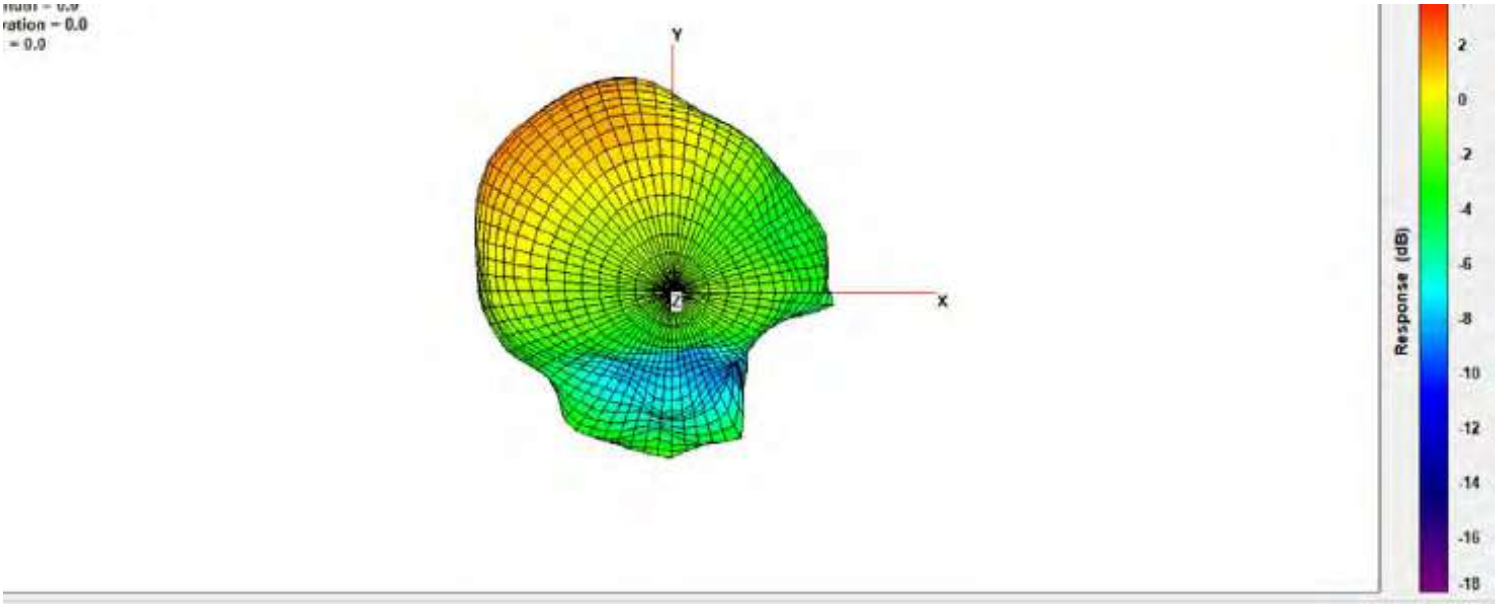
Center Frequency	**1980MHz**
Peak Gain W/ Cable loss (dBi)	3.93

1995MHz



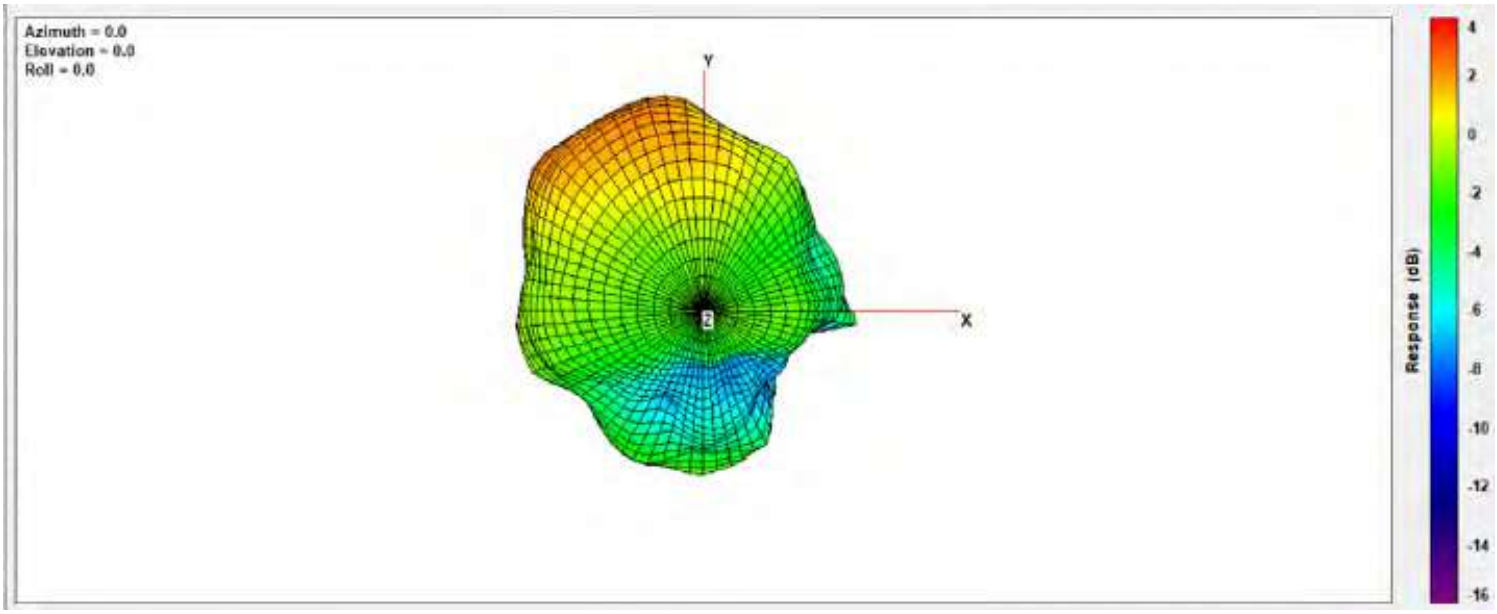
Center Frequency	**1995MHz**
Peak Gain W/ Cable loss (dBi)	4.07

2110MHz



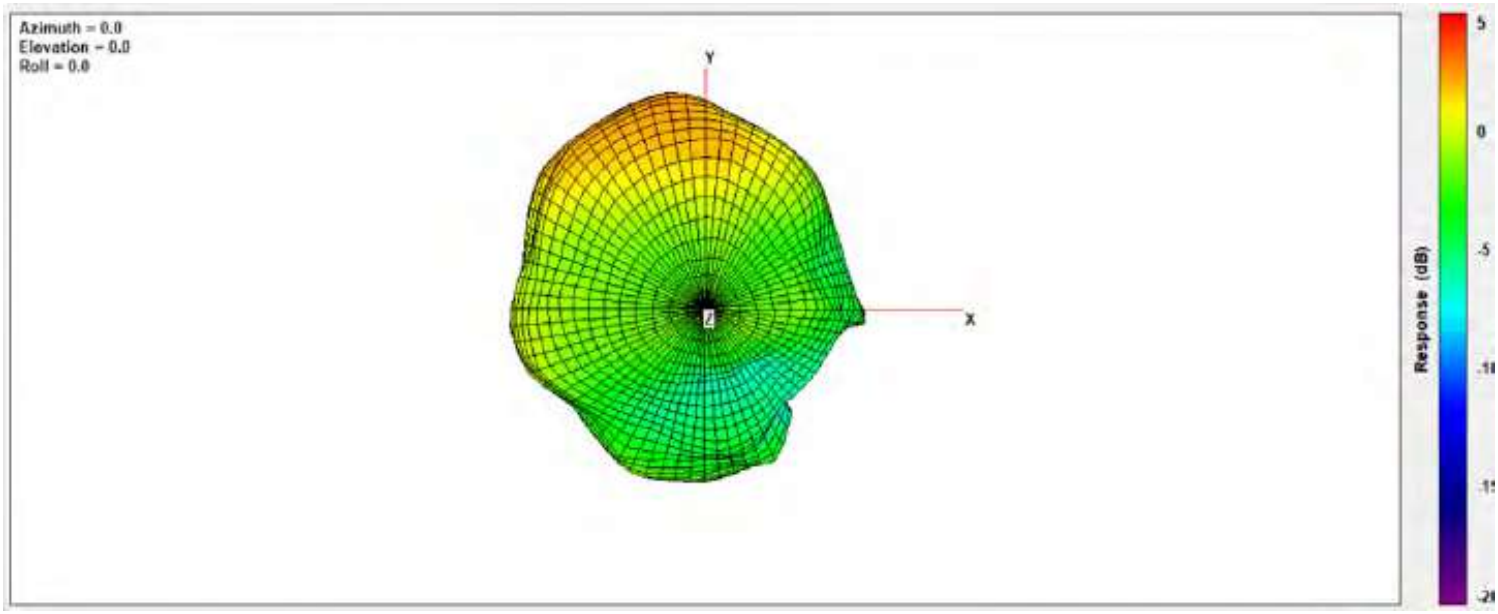
Center Frequency	**2110MHz**
Peak Gain W/ Cable loss (dBi)	3.10

2140MHz



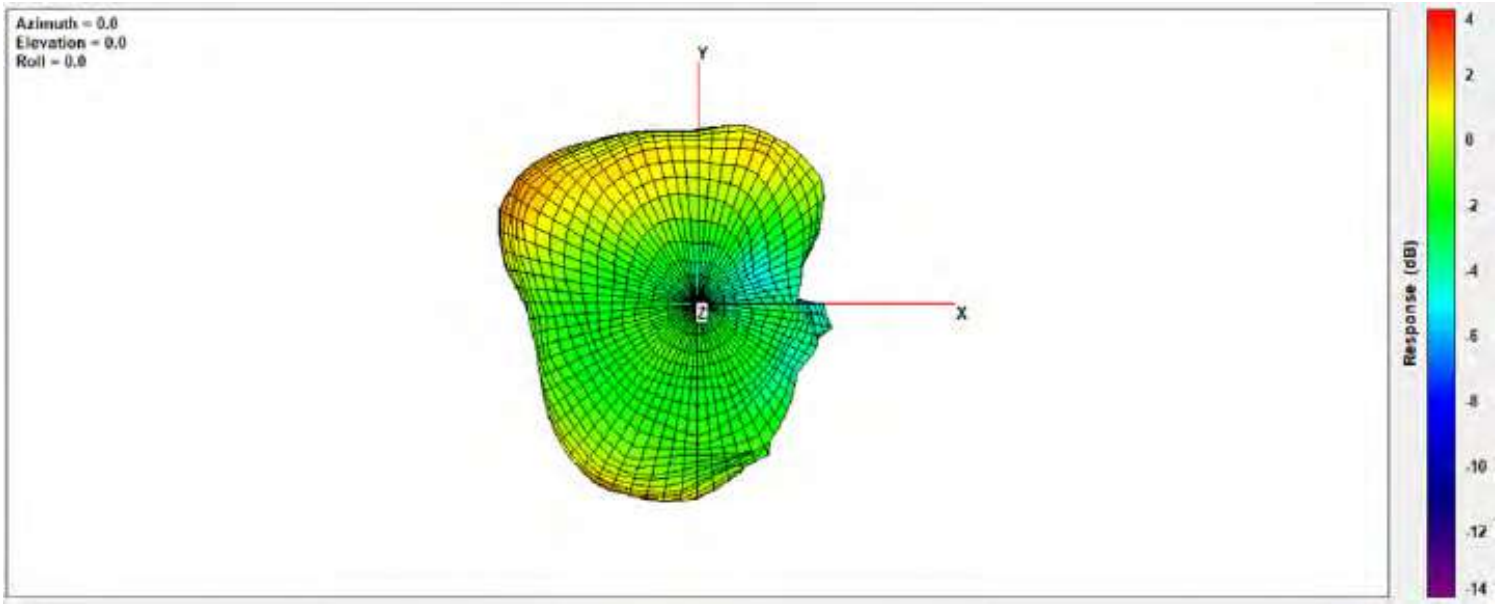
Center Frequency	**2140MHz**
Peak Gain W/ Cable loss (dBi)	3.55

2170MHz



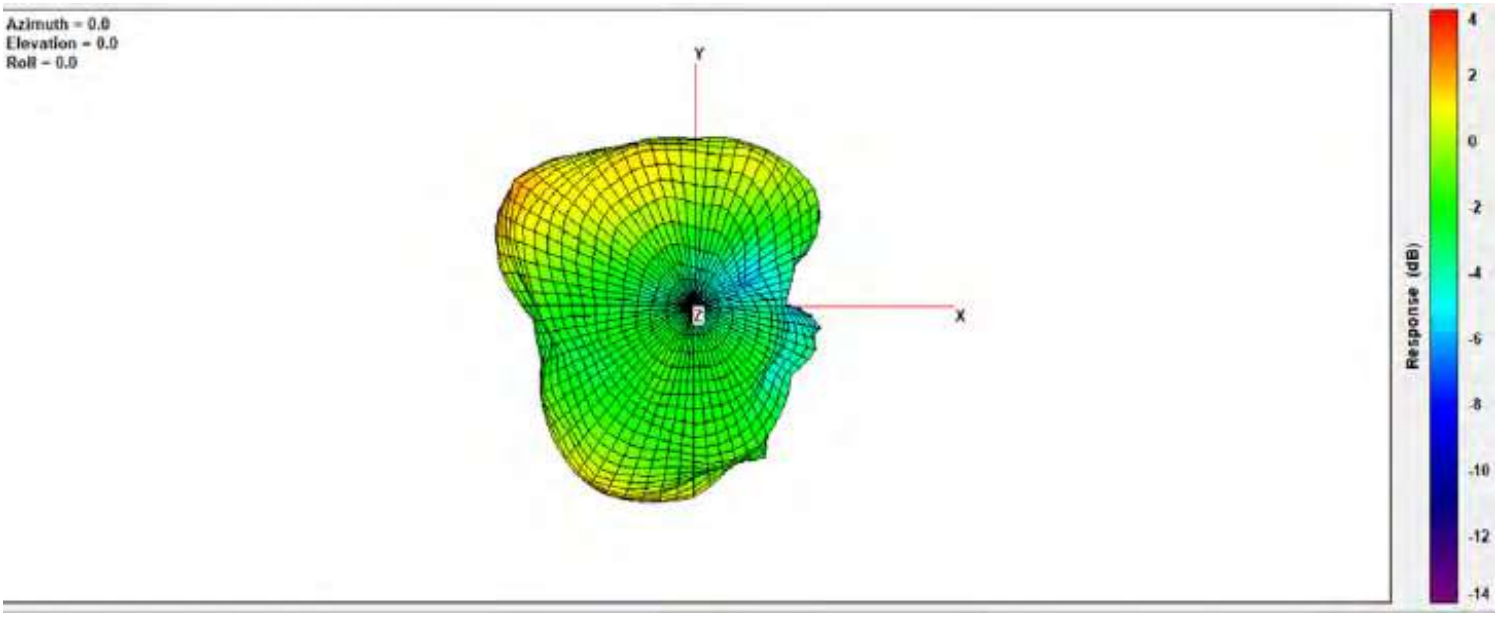
Center Frequency	**2170MHz**
Peak Gain W/ Cable loss (dBi)	3.81

2300MHz



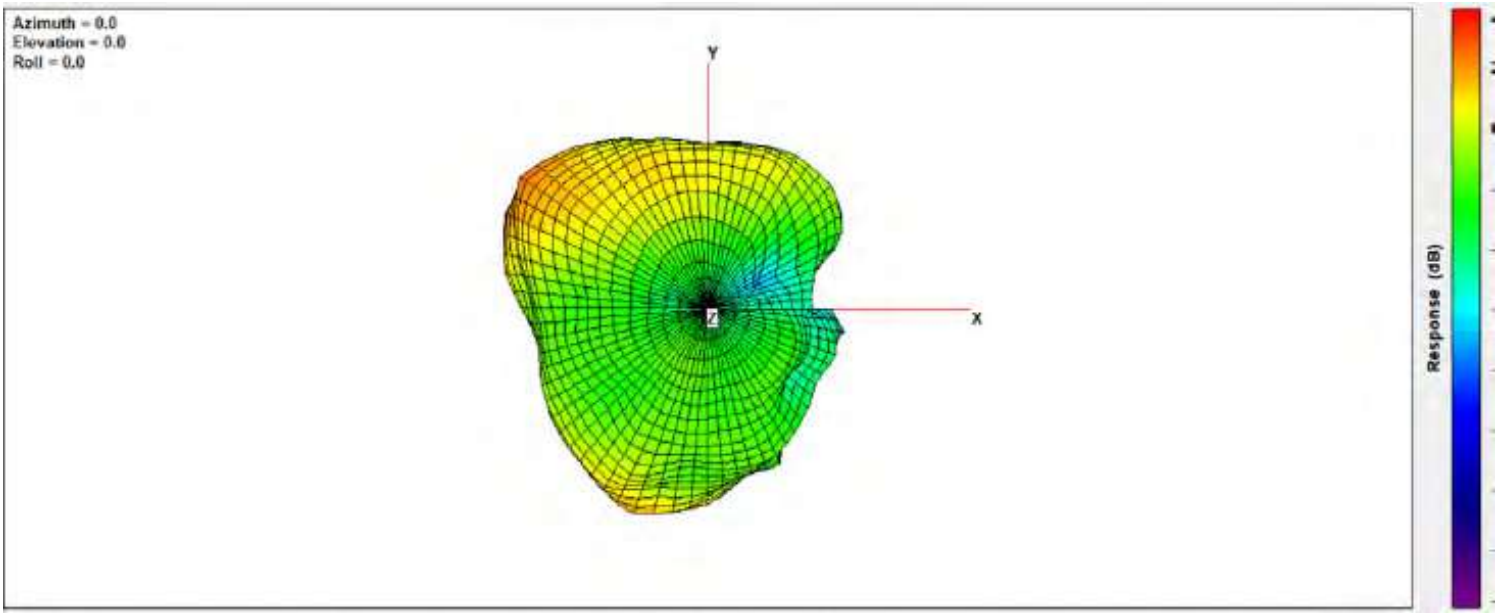
Center Frequency	**2300MHz**
Peak Gain W/ Cable loss (dBi)	3.27

2325MHz



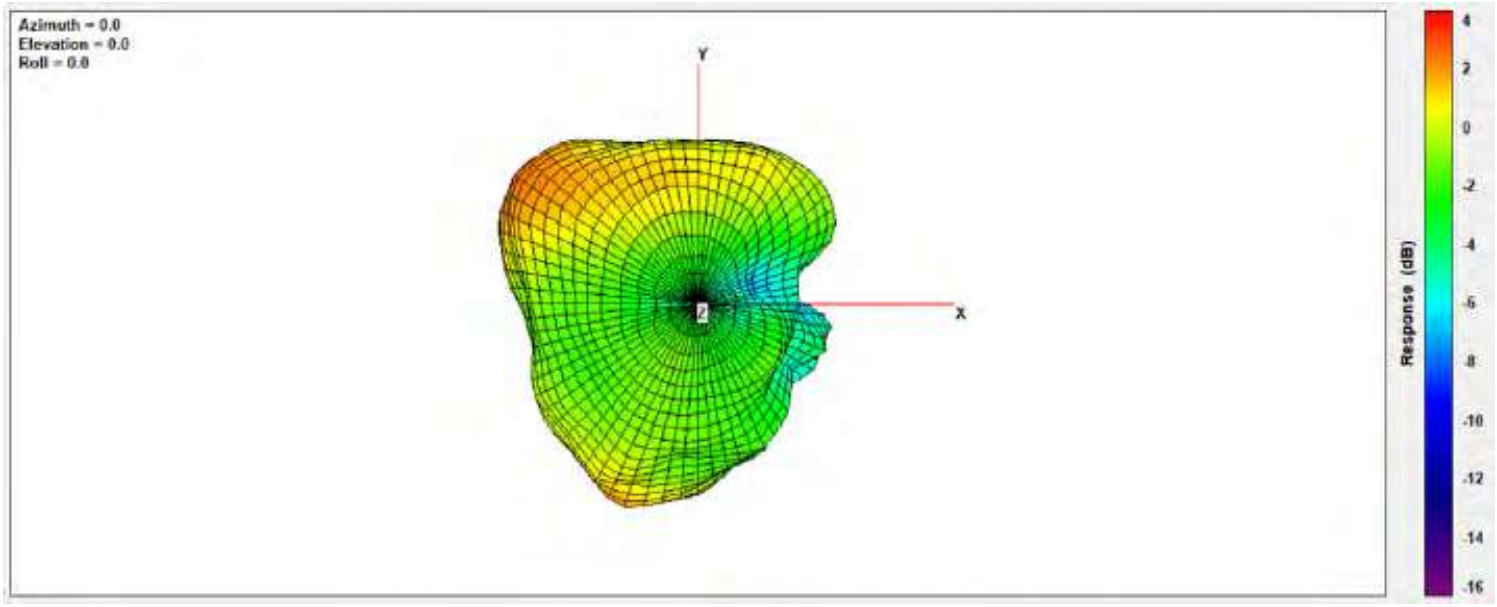
Center Frequency	**2325MHz**
Peak Gain W/ Cable loss (dBi)	3.12

2350MHz



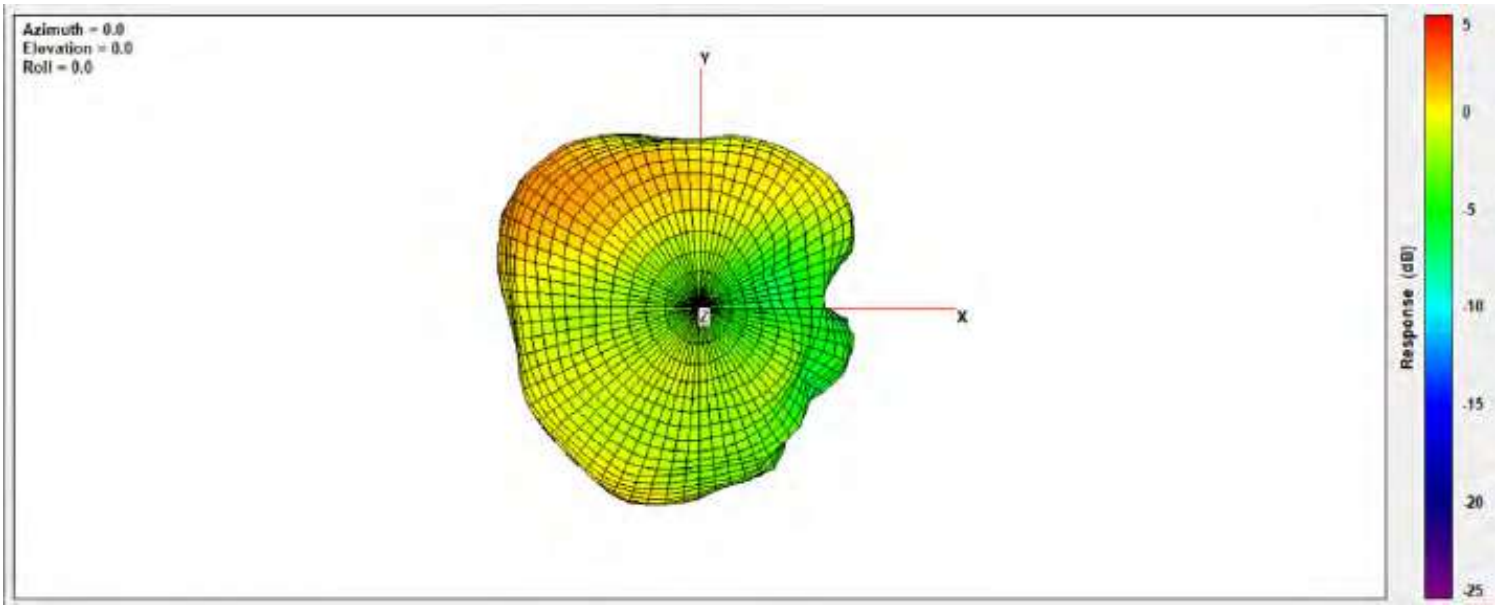
Center Frequency	**2350MHz**
Peak Gain W/ Cable loss (dBi)	2.97

2375MHz



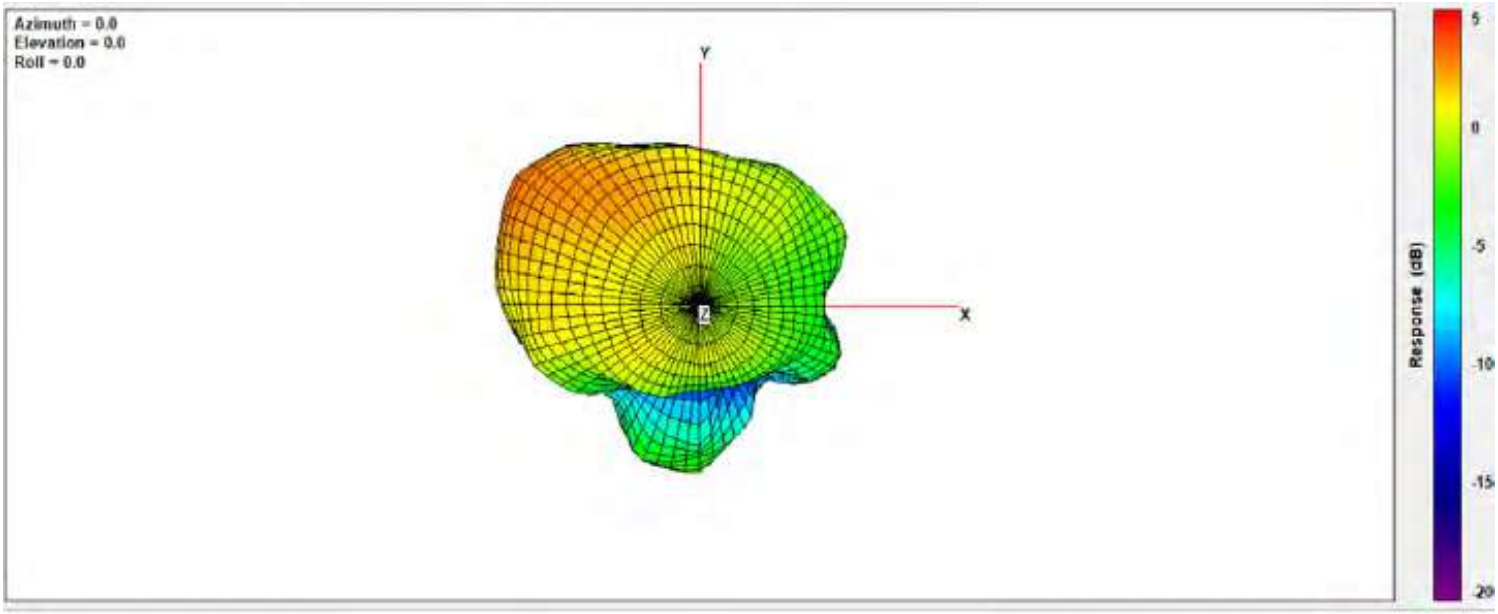
Center Frequency	**2375MHz**
Peak Gain W/ Cable loss (dBi)	2.91

2400MHz



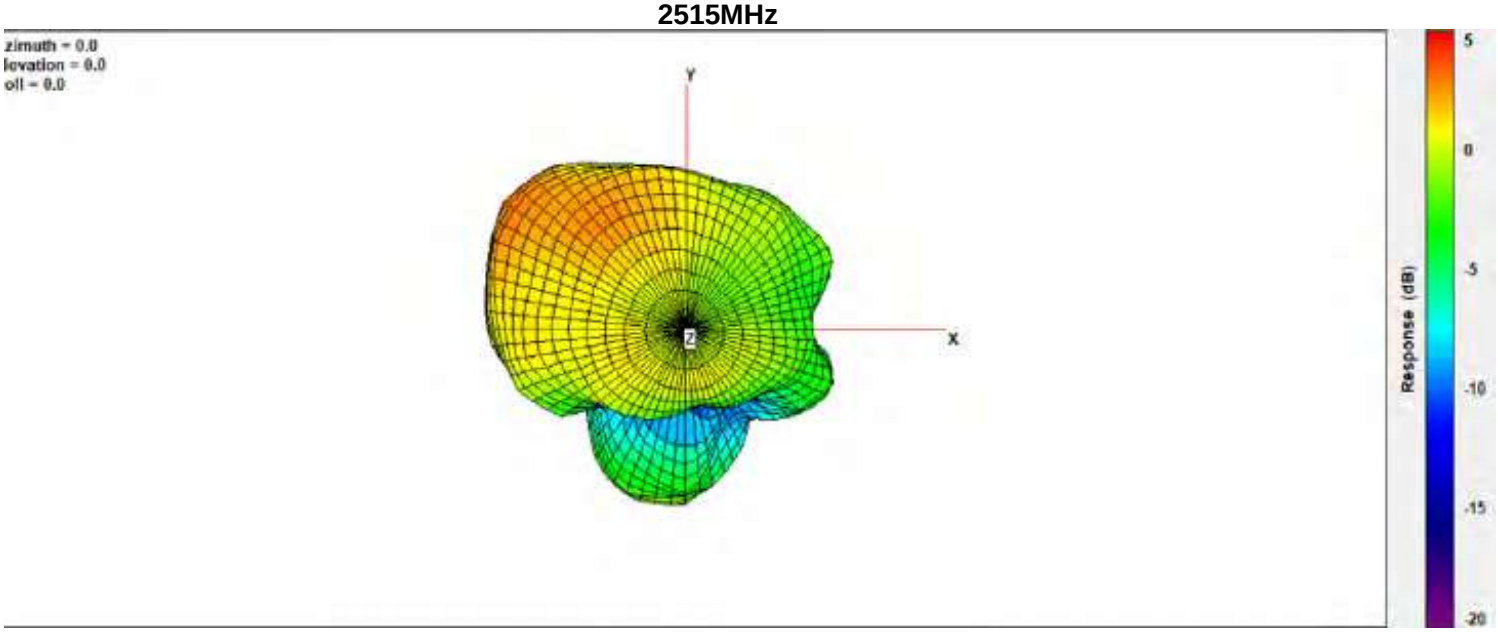
Center Frequency	**2400MHz**
Peak Gain W/ Cable loss (dBi)	**3.22**

2500MHz



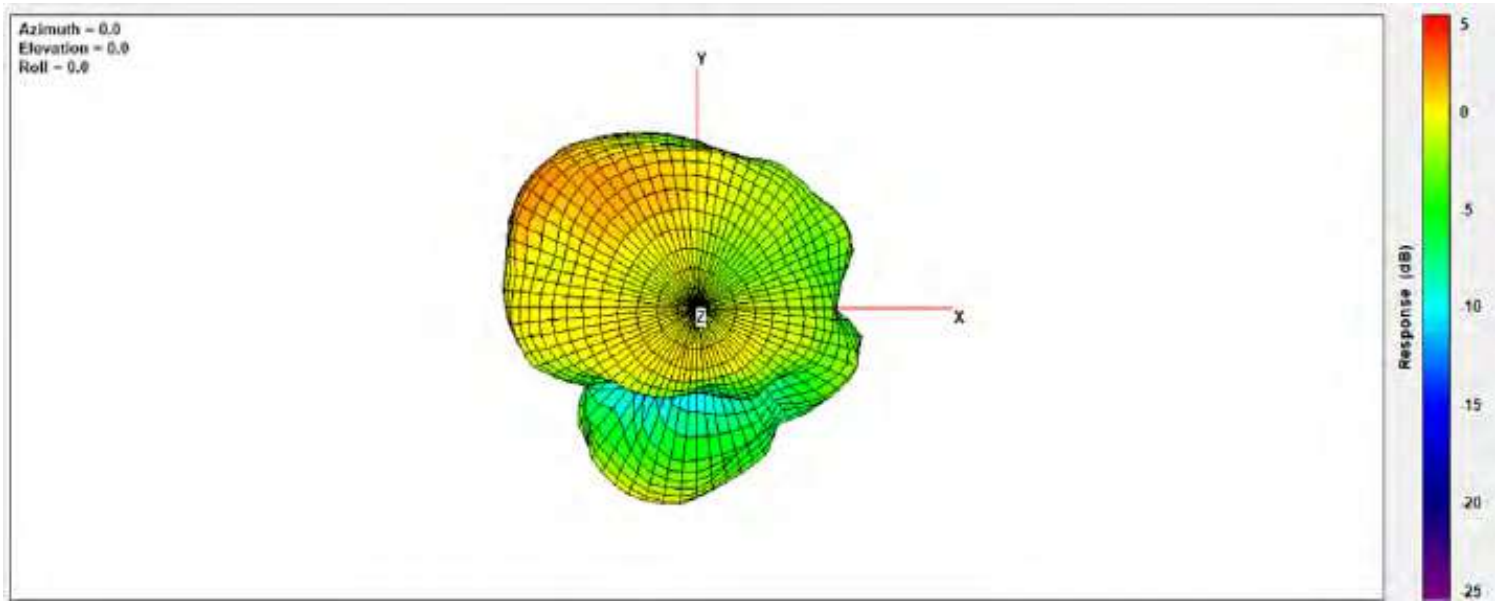
Center Frequency	**2500MHz**
Peak Gain W/ Cable loss (dBi)	**3.53**

2515MHz



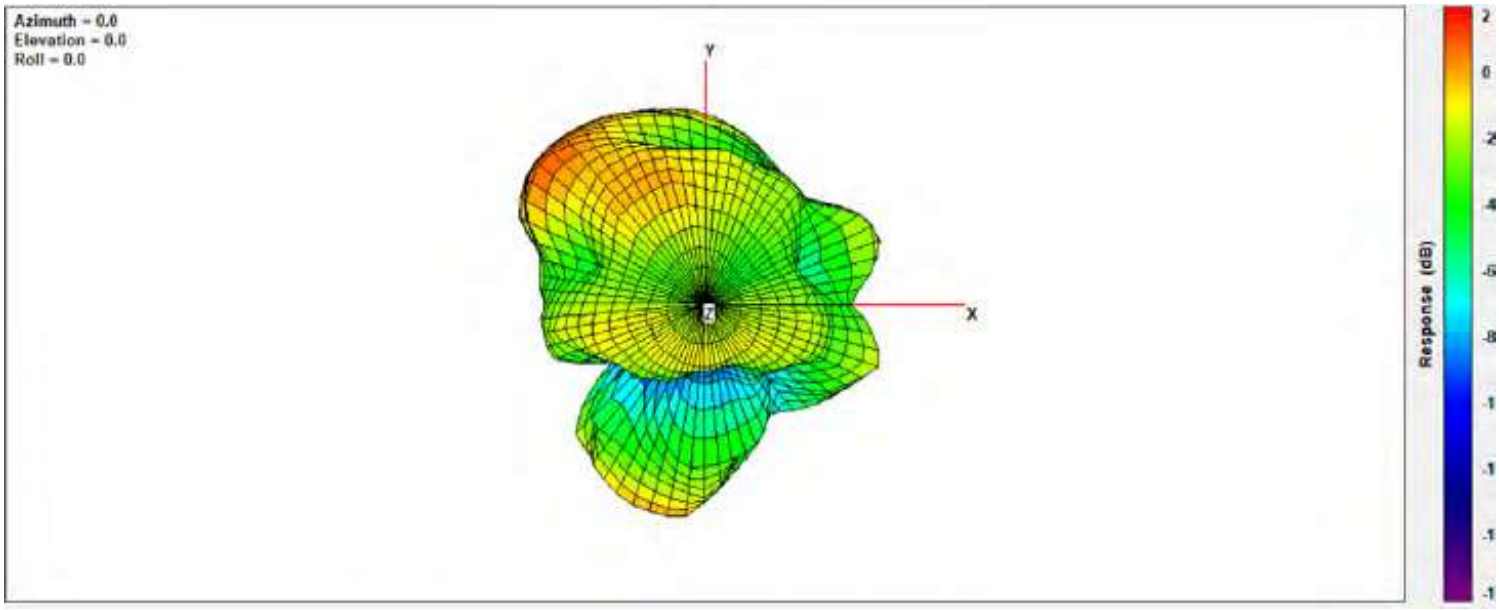
Center Frequency	**2515MHz**
Peak Gain W/ Cable loss (dBi)	**2.97**

2535MHz



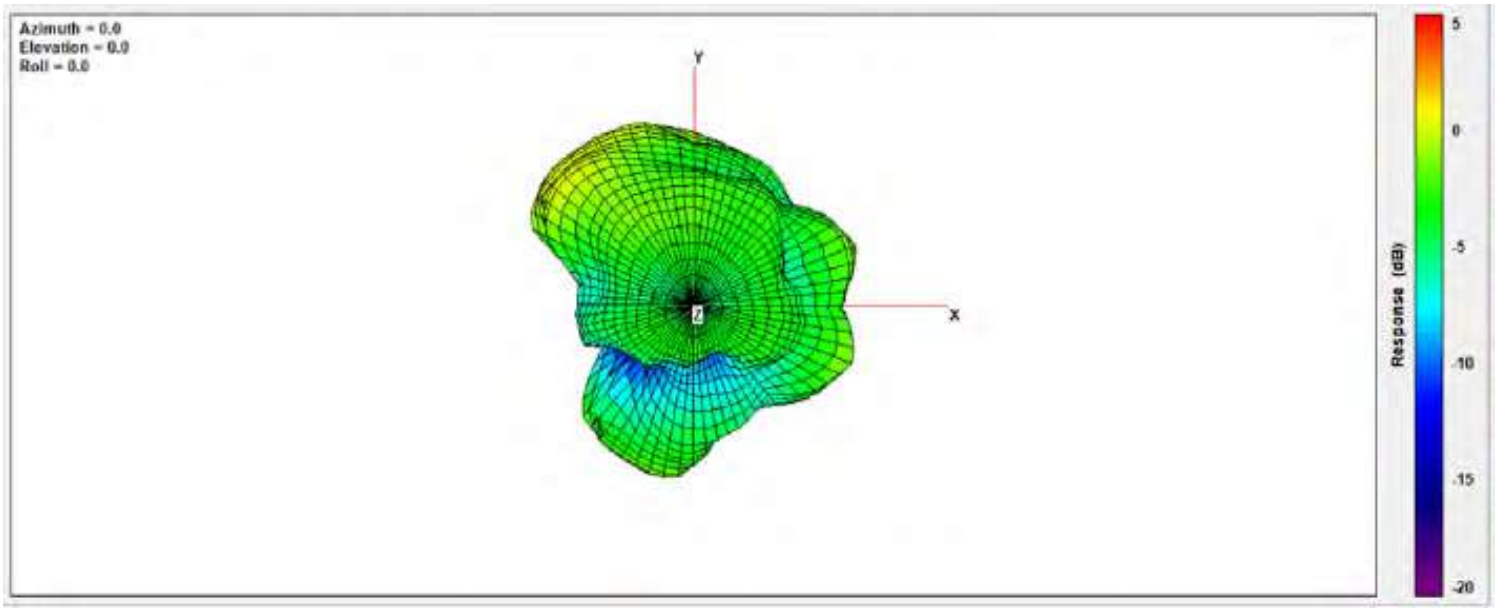
Center Frequency	**2535MHz**
Peak Gain W/ Cable loss (dBi)	**2.41**

2555MHz



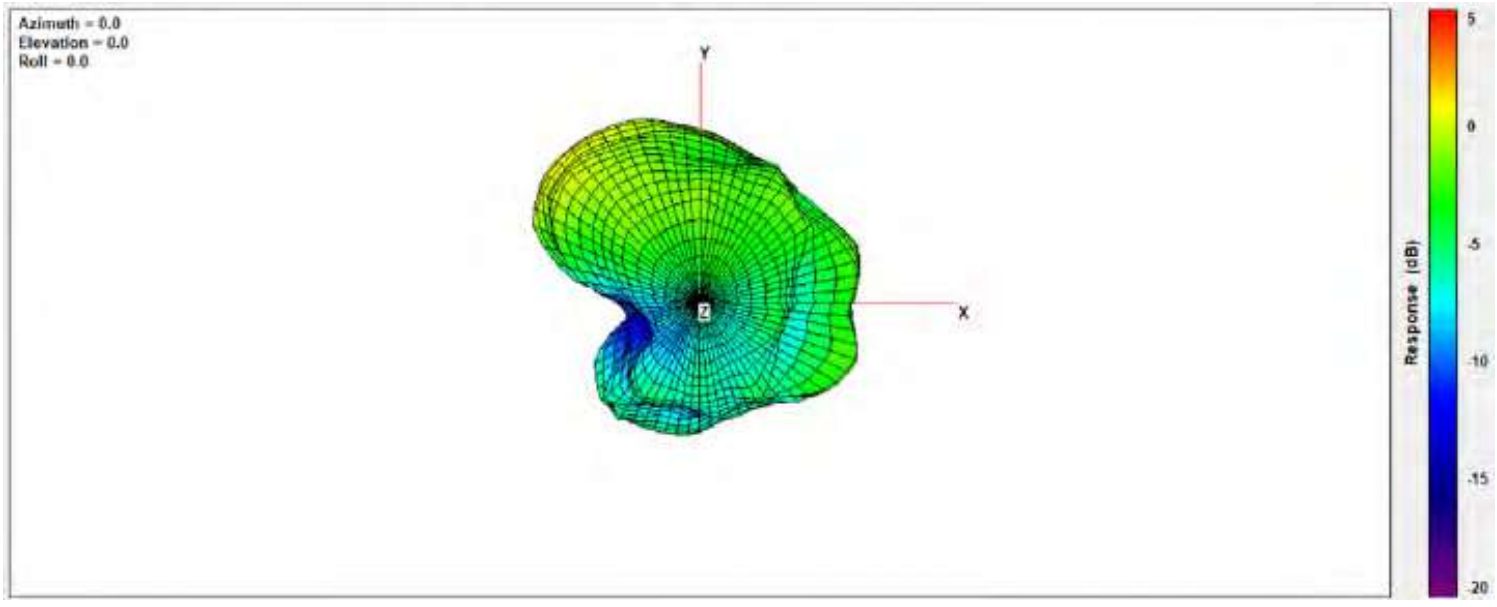
Center Frequency	**2555MHz**
Peak Gain W/ Cable loss (dBi)	**1.65**

2570MHz



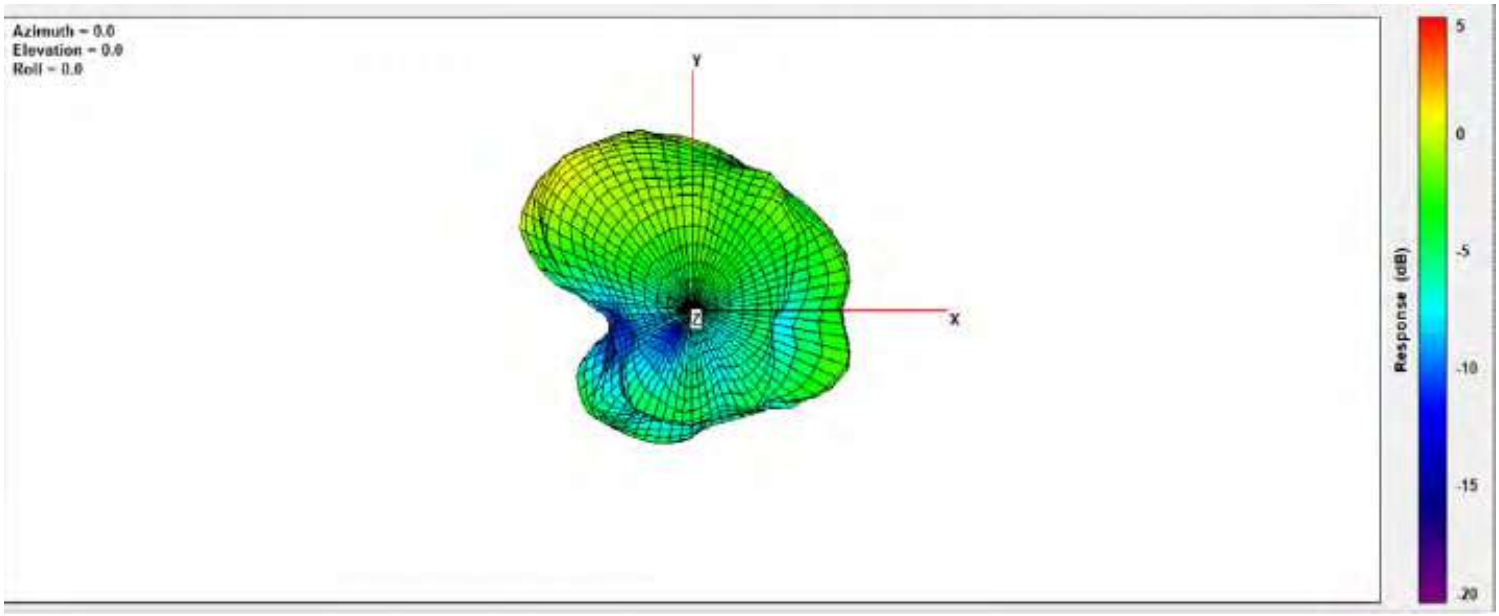
Center Frequency	**2570MHz**
Peak Gain W/ Cable loss (dBi)	**2.21**

2620MHz



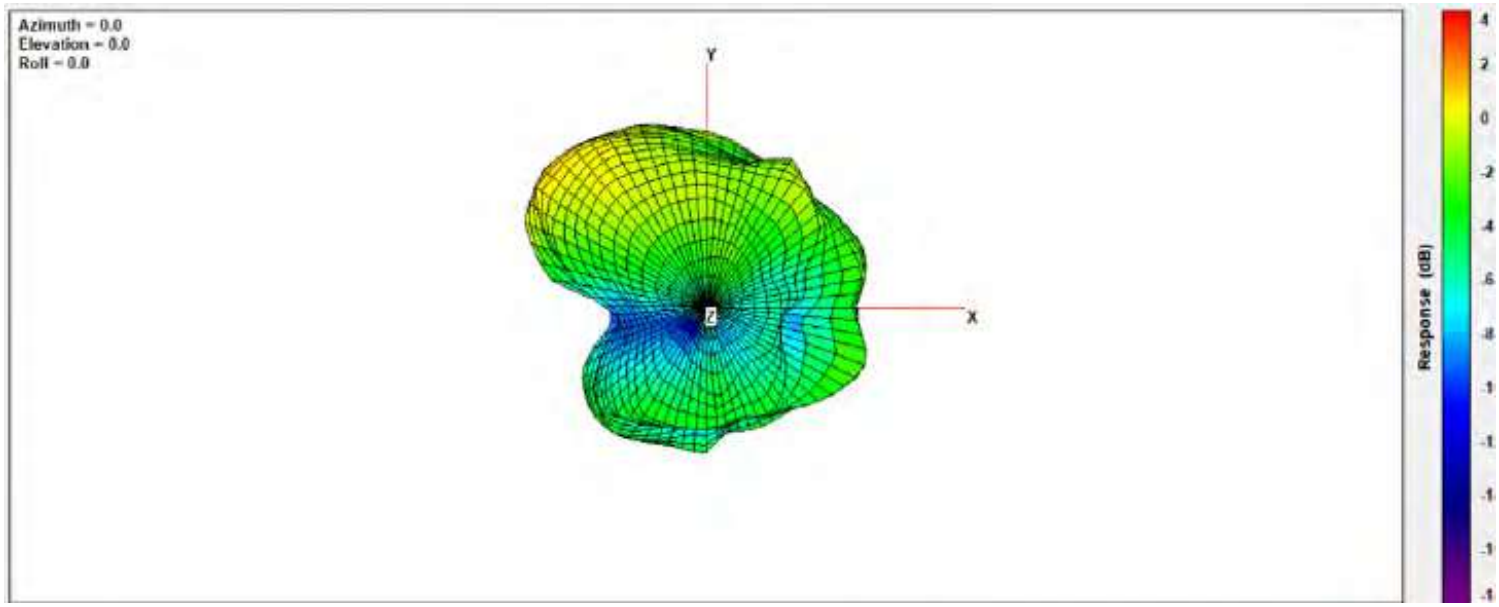
Center Frequency	**2620MHz**
Peak Gain W/ Cable loss (dBi)	**2.73**

2630MHz



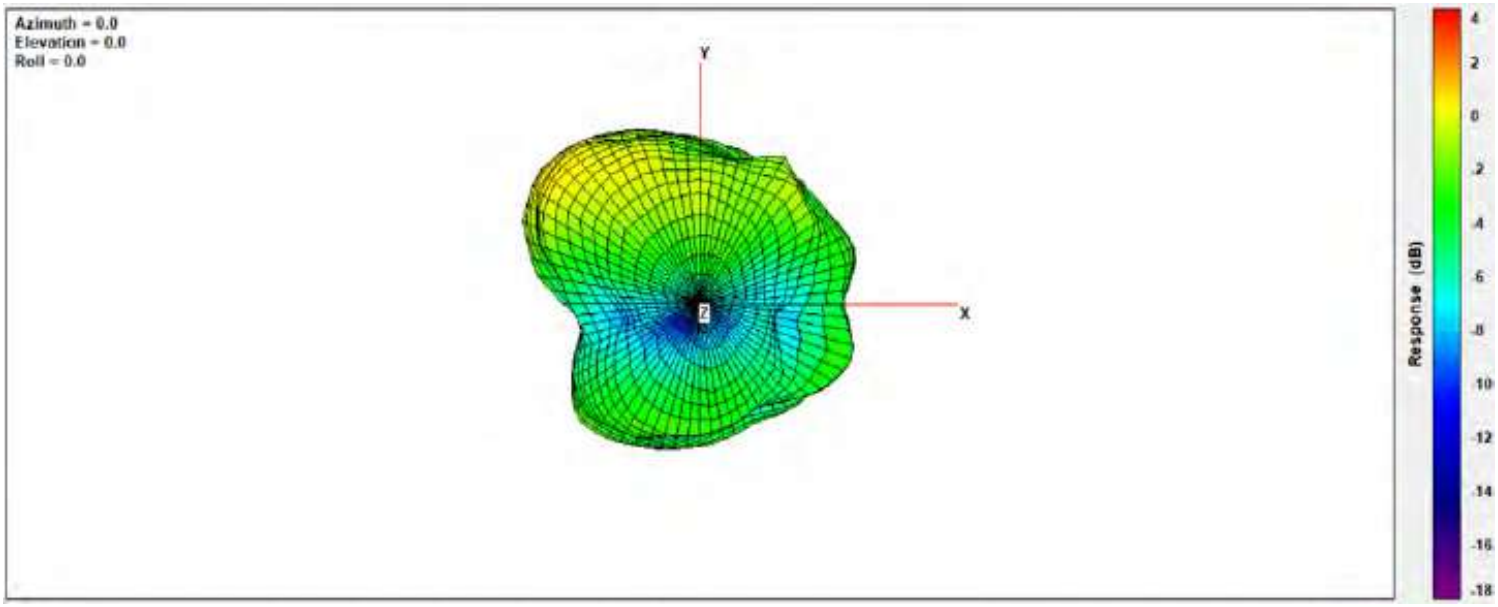
Center Frequency	**2630MHz**
Peak Gain W/ Cable loss (dBi)	**2.99**

2655MHz



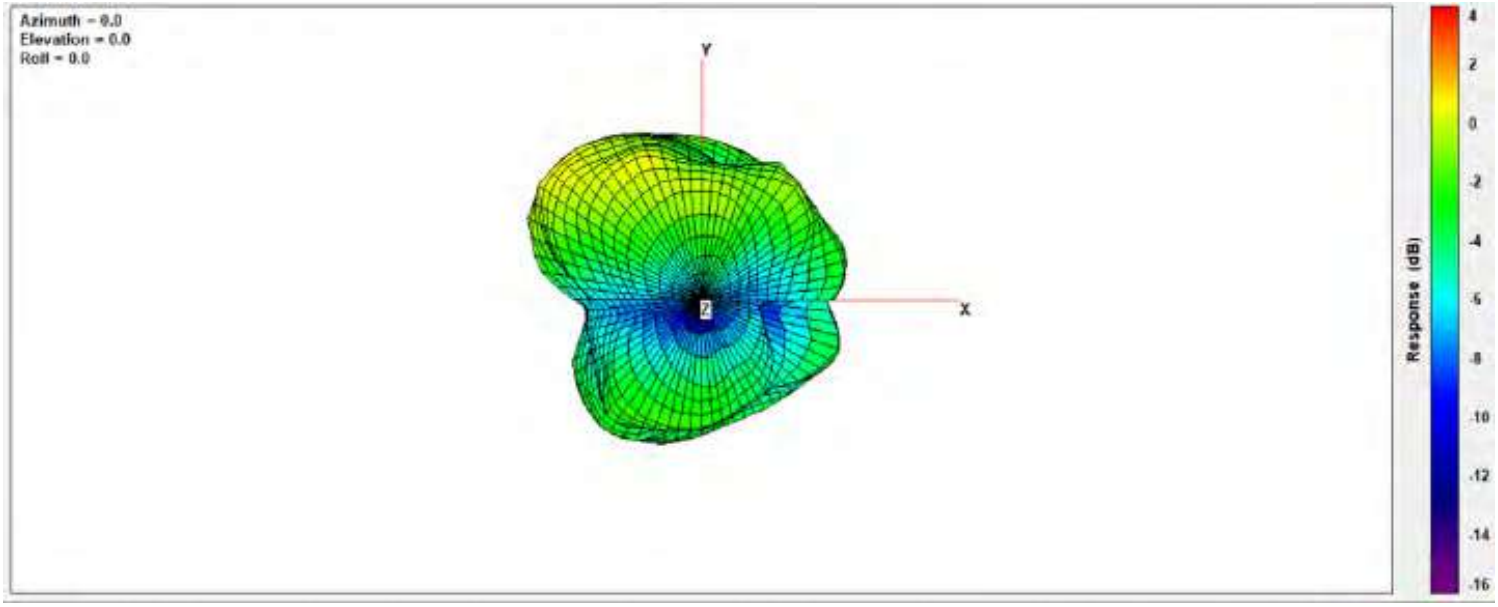
Center Frequency	**2655MHz**
Peak Gain W/ Cable loss (dBi)	**2.79**

2680MHz



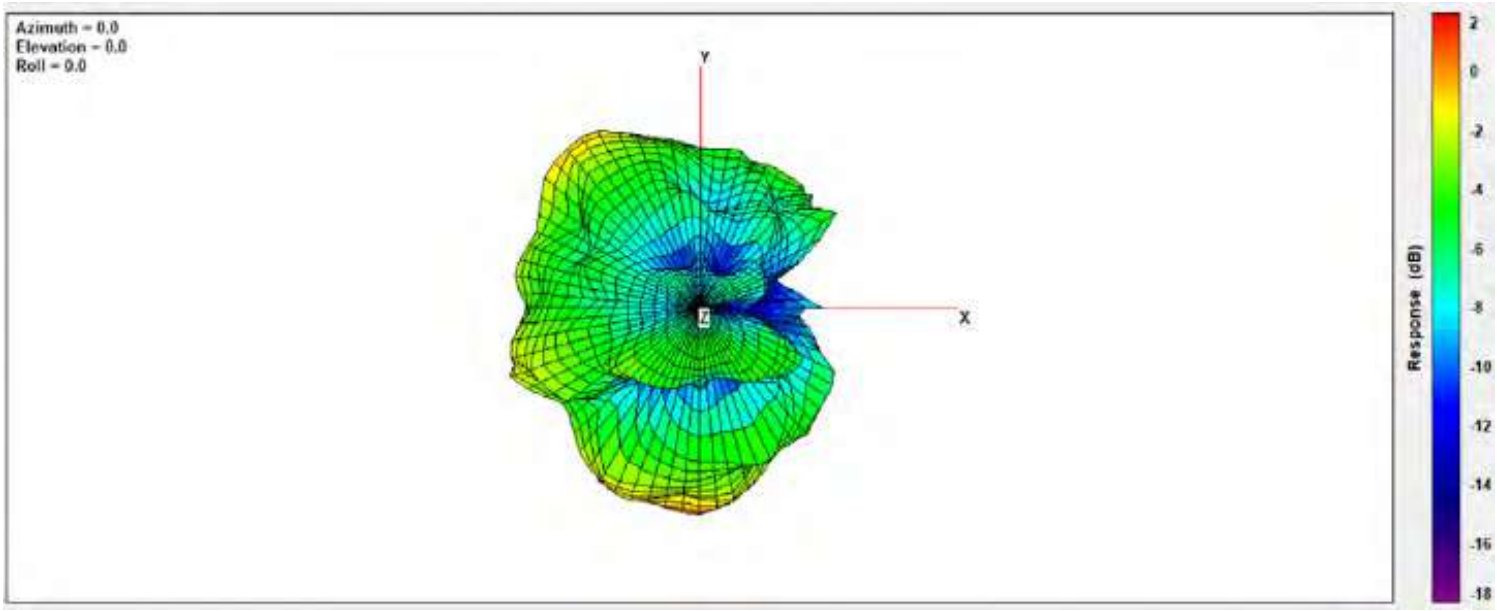
Center Frequency	**2680MHz**
Peak Gain W/ Cable loss (dBi)	**2.86**

2690MHz



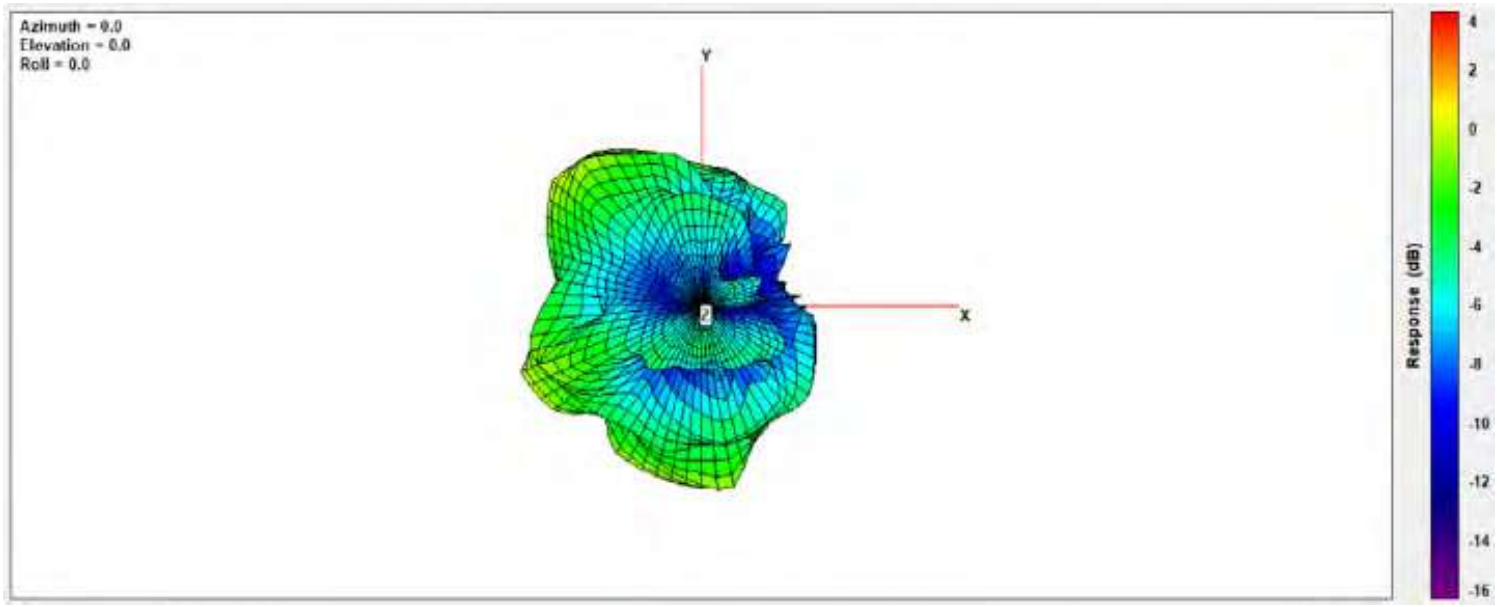
Center Frequency	**2690MHz**
Peak Gain W/ Cable loss (dBi)	**2.82**

3300MHz



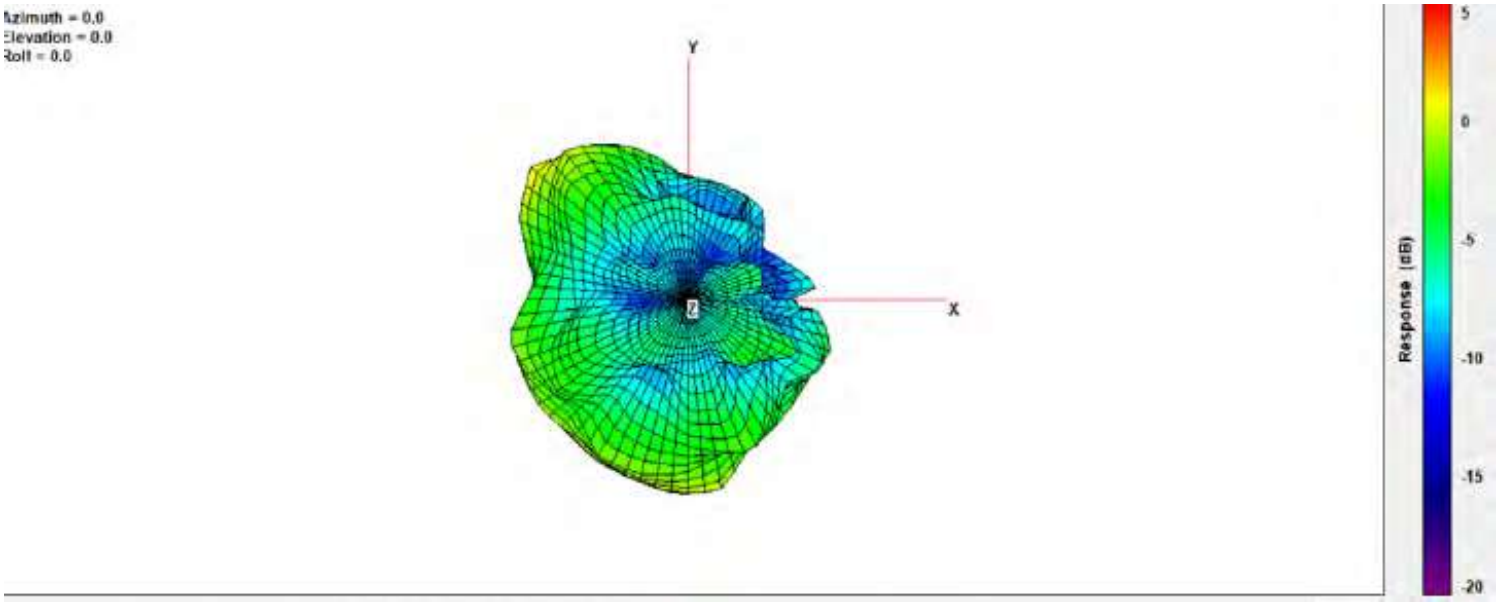
Center Frequency	**3300MHz**
Peak Gain W/ Cable loss (dBi)	2.41

3400MHz



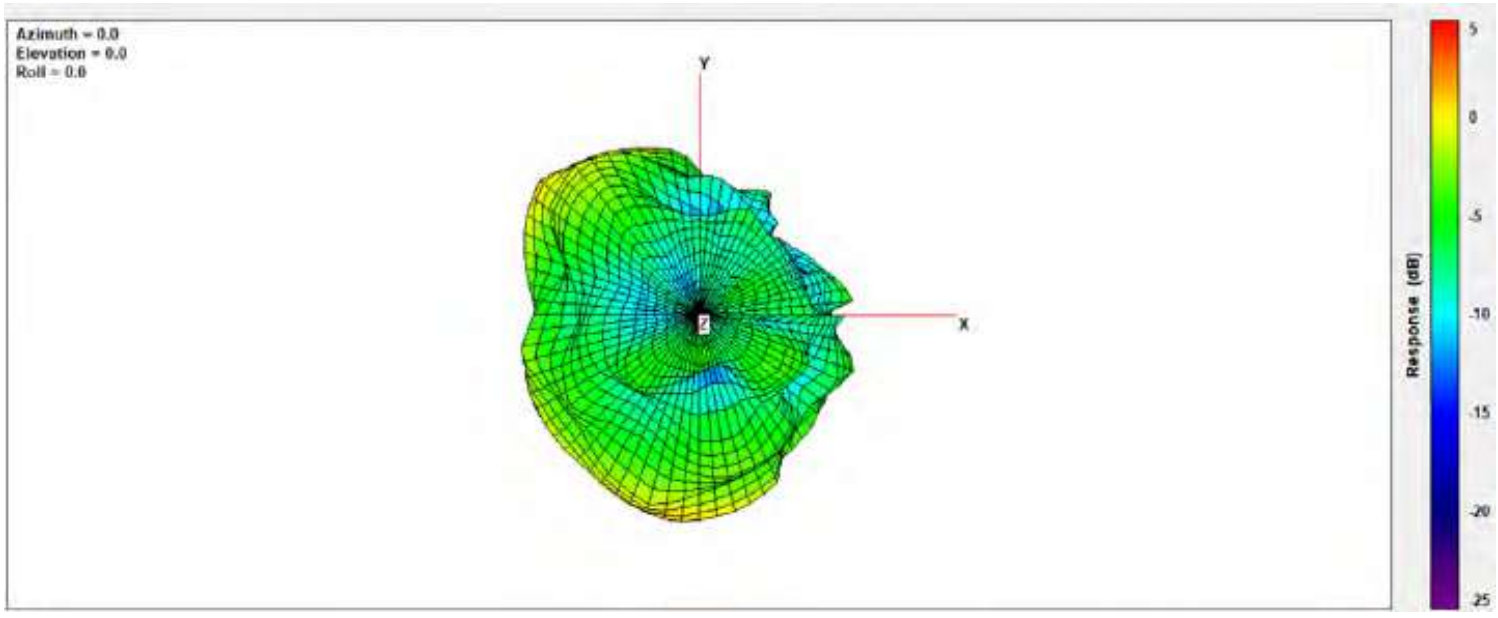
Center Frequency	**3400MHz**
Peak Gain W/ Cable loss (dBi)	2.08

3550MHz



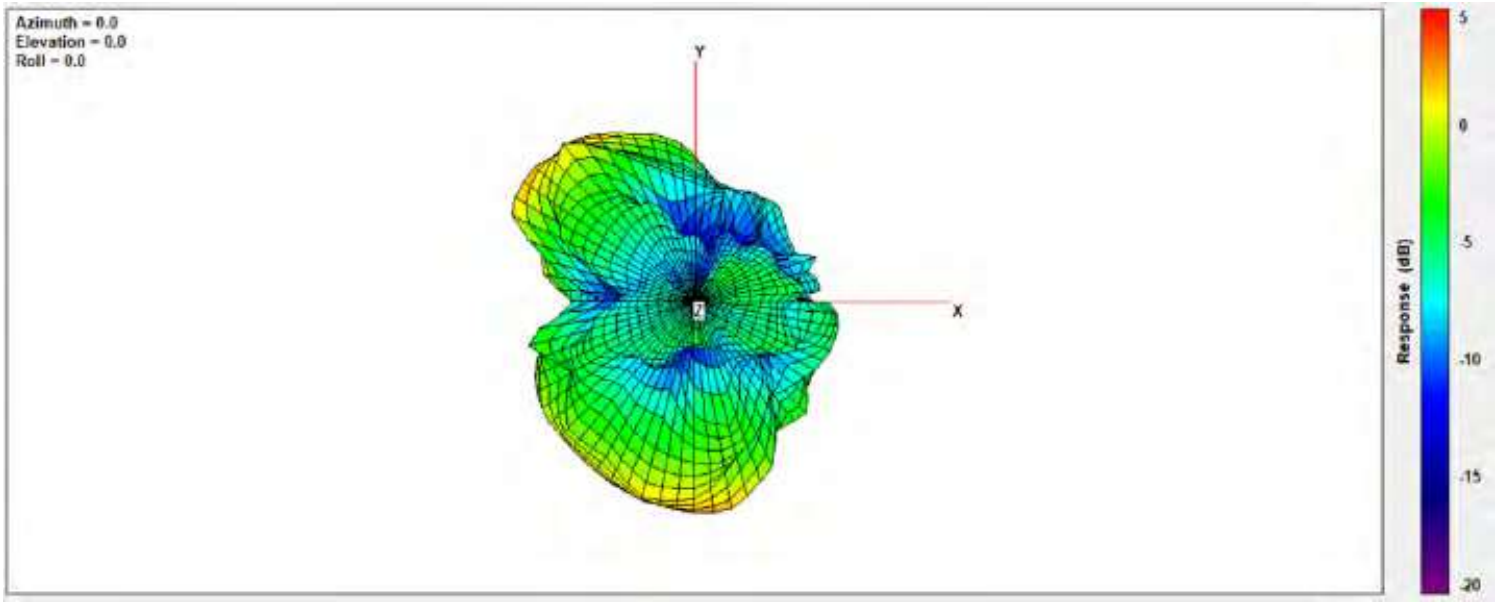
Center Frequency	**3550MHz**
Peak Gain W/ Cable loss (dBi)	3.49

3600MHz



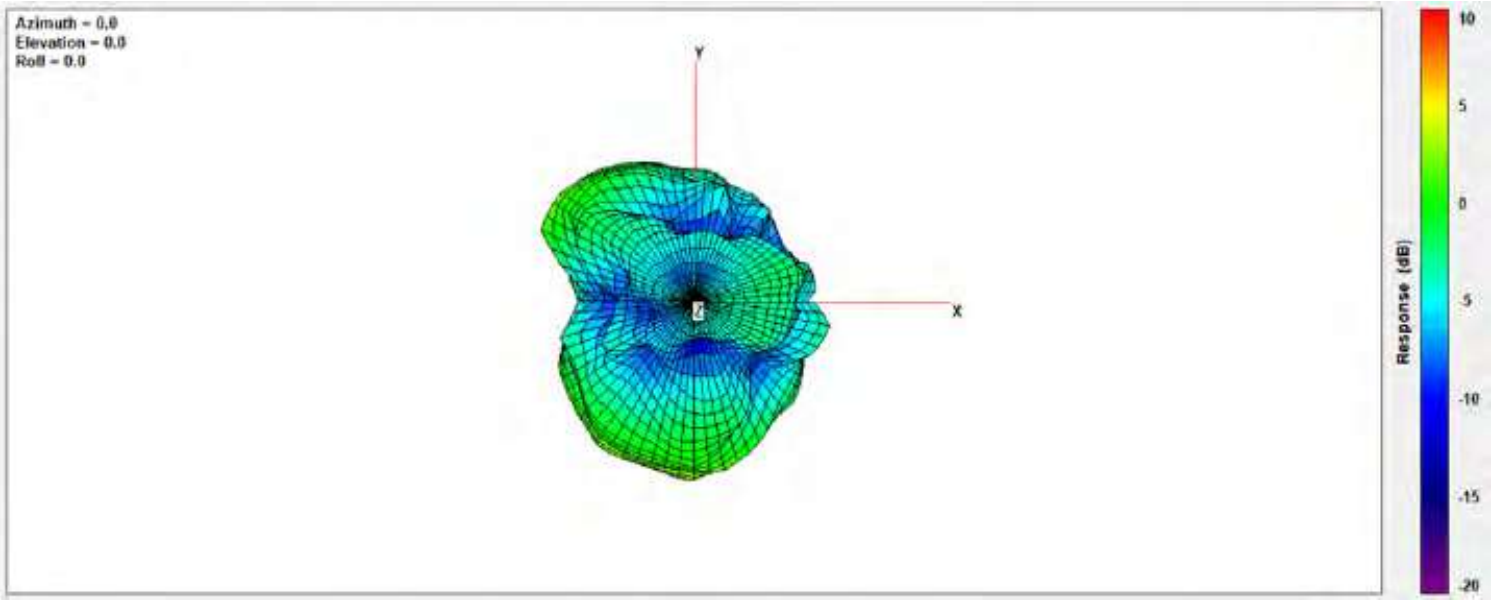
Center Frequency	**3600MHz**
Peak Gain W/ Cable loss (dBi)	3.57

3700MHz



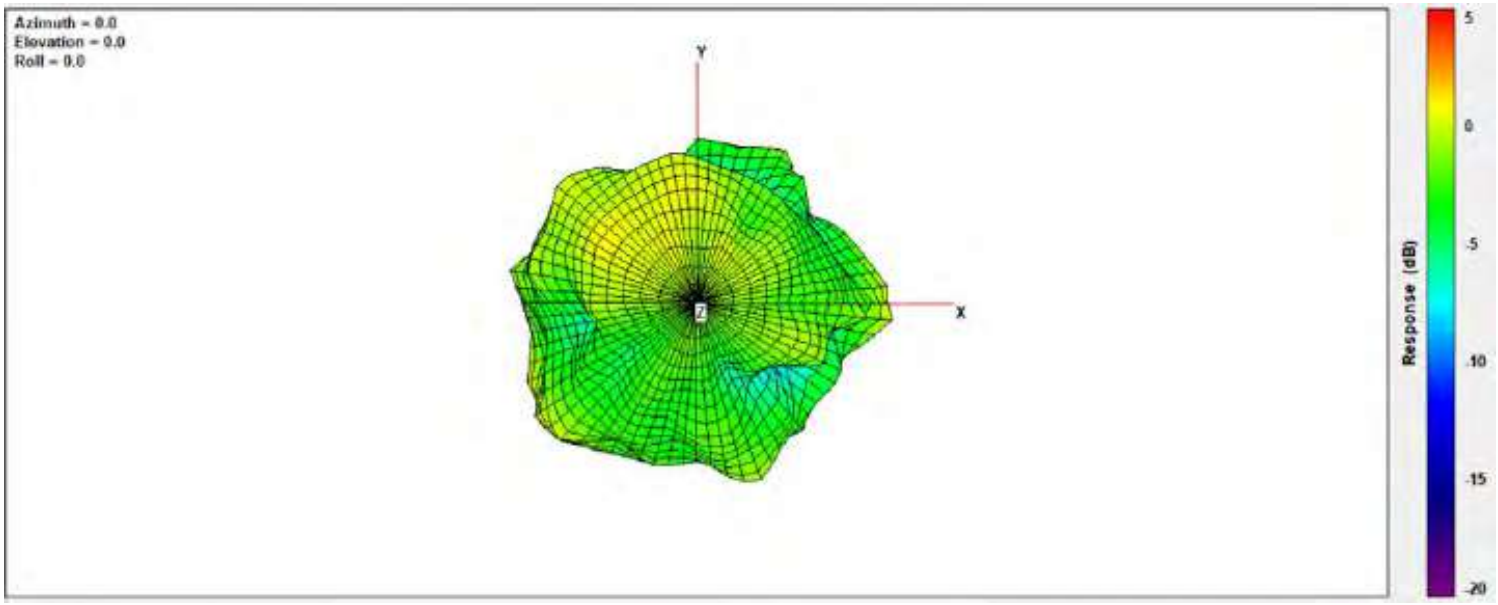
Center Frequency	**3700MHz**
Peak Gain W/ Cable loss (dBi)	4.64

3800MHz



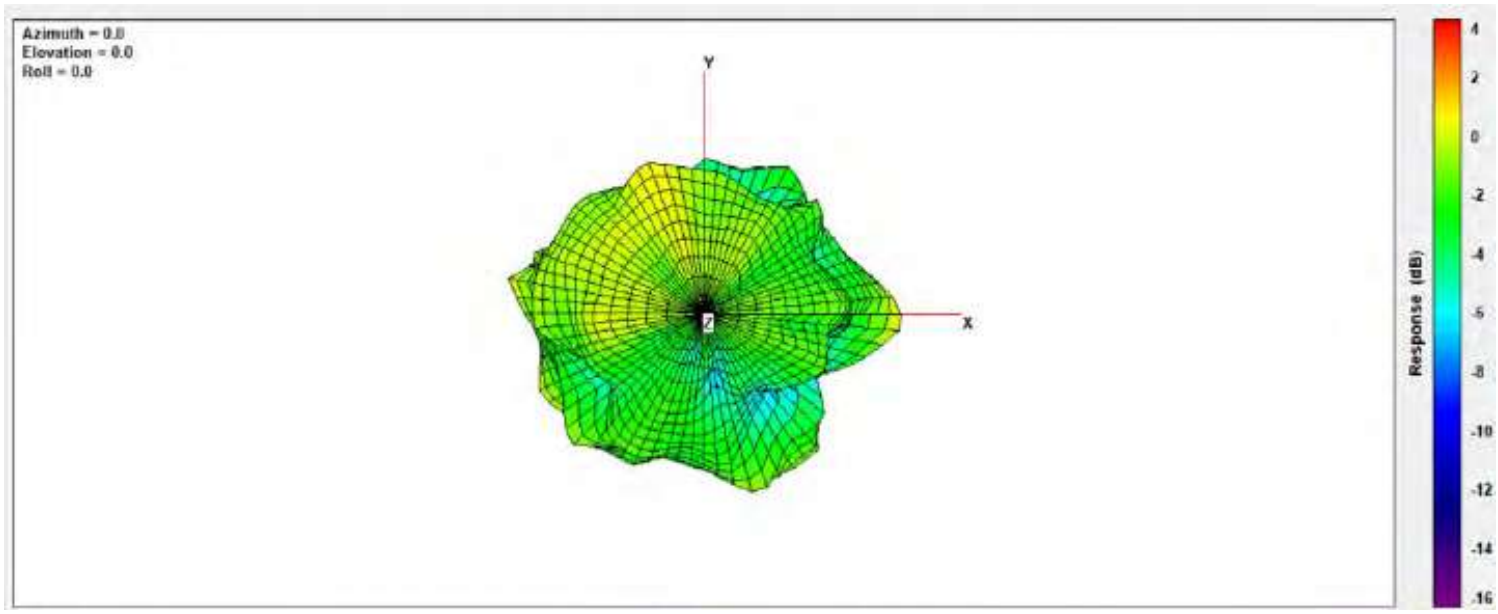
Center Frequency	**3800MHz**
Peak Gain W/ Cable loss (dBi)	**5.35**

5150MHz



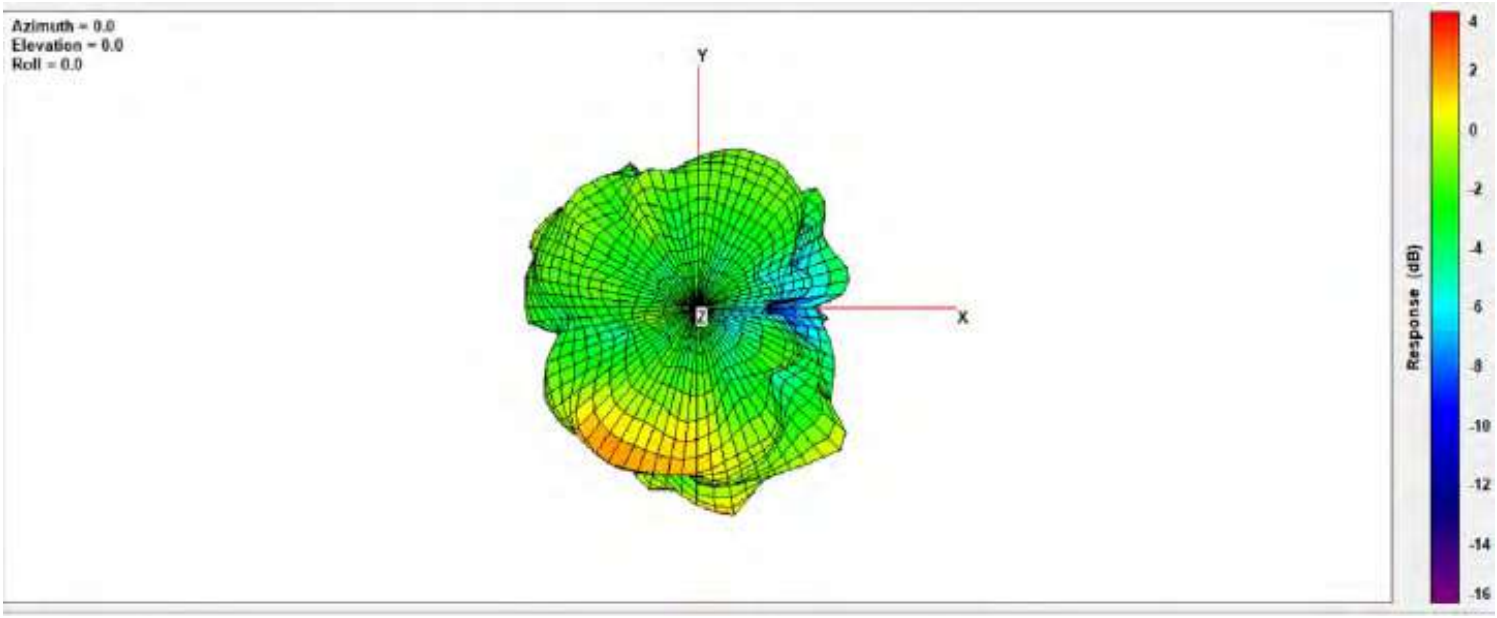
Center Frequency	**5150MHz**
Peak Gain W/ Cable loss (dBi)	3.87

5250MHz



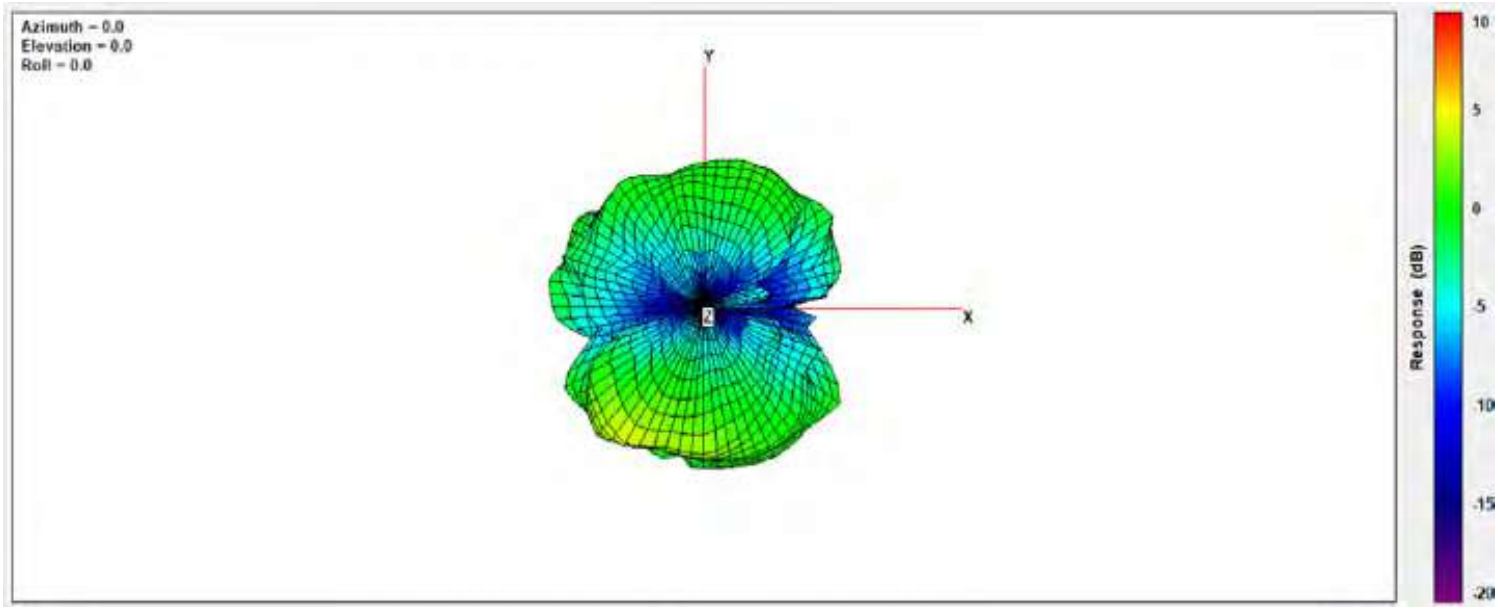
Center Frequency	**5250MHz**
Peak Gain W/ Cable loss (dBi)	3.82

5725MHz



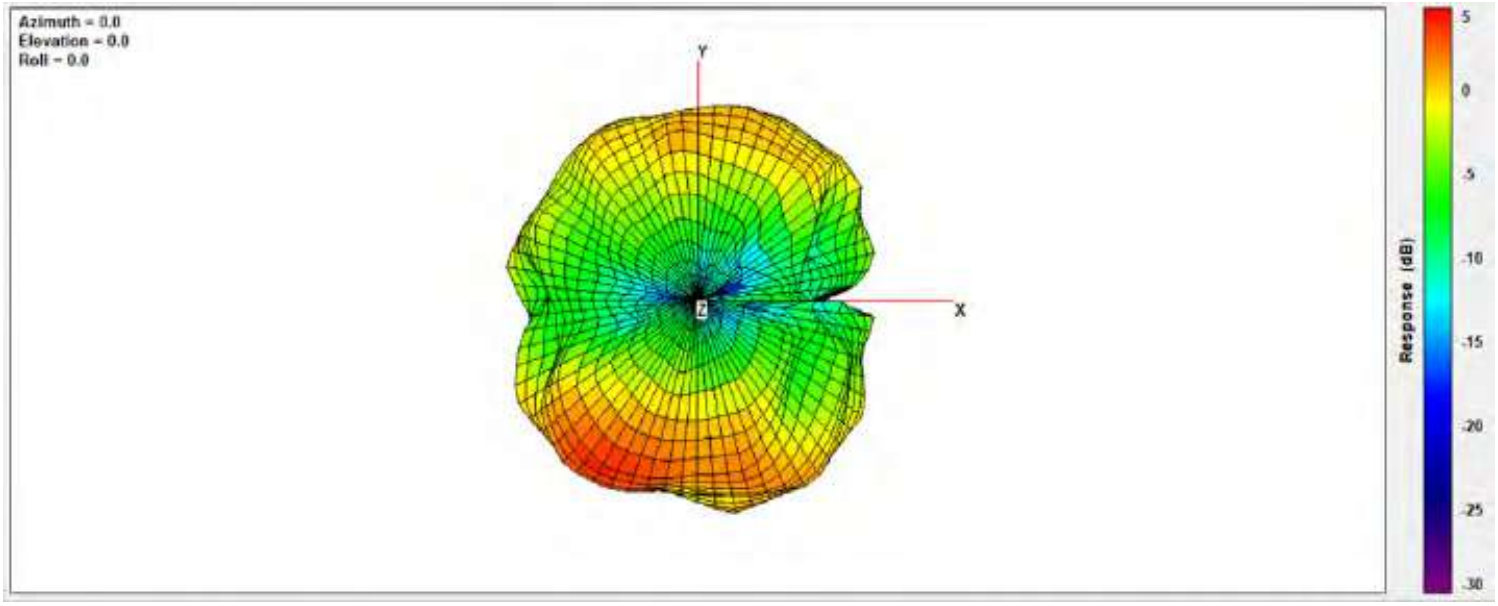
Center Frequency	**5725MHz**
Peak Gain W/ Cable loss (dBi)	2.74

5850MHz



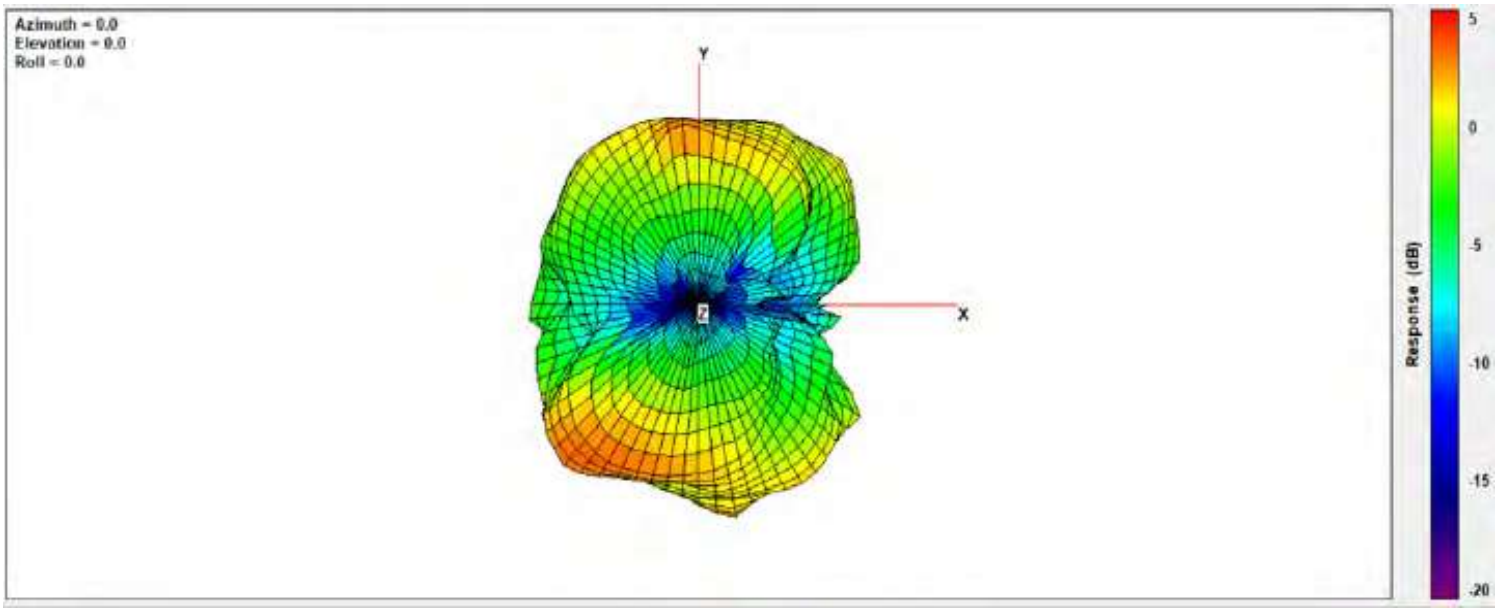
Center Frequency	**5850MHz**
Peak Gain W/ Cable loss (dBi)	5.24

5925MHz



Center Frequency	**5925MHz**
Peak Gain W/ Cable loss (dBi)	4.63

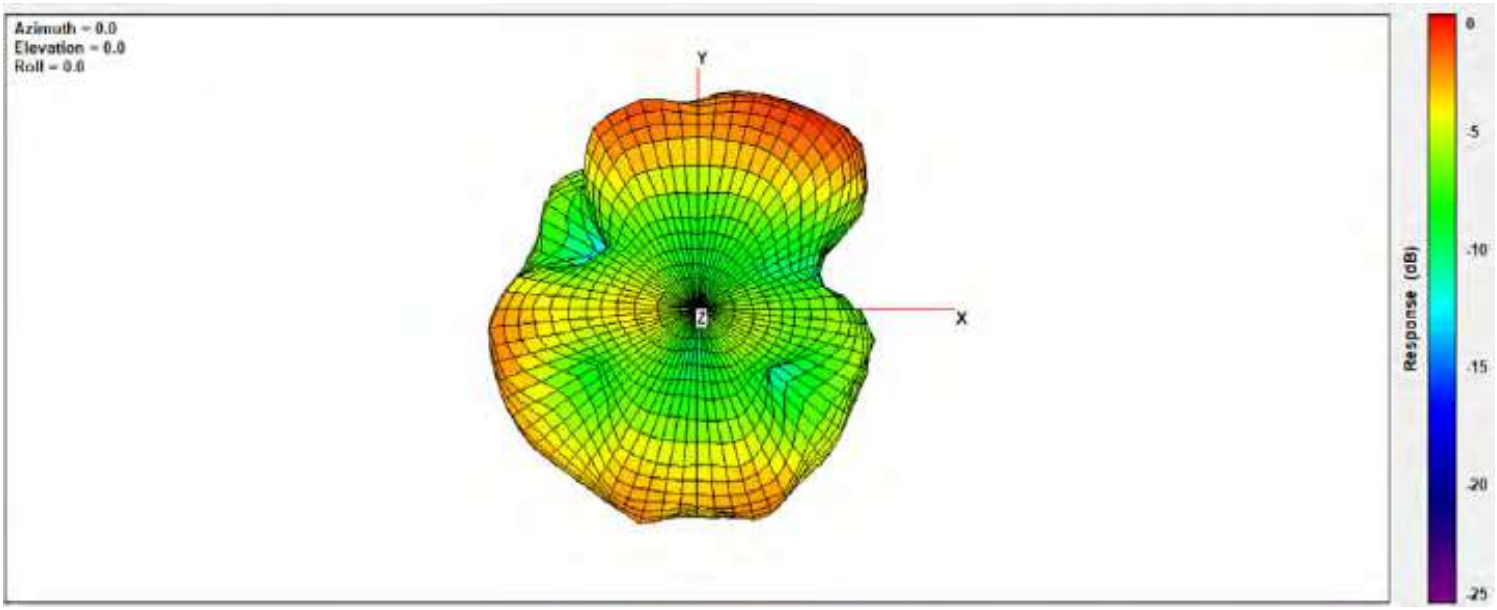
6000MHz



Center Frequency	**6000MHz**
Peak Gain W/ Cable loss (dBi)	3.94

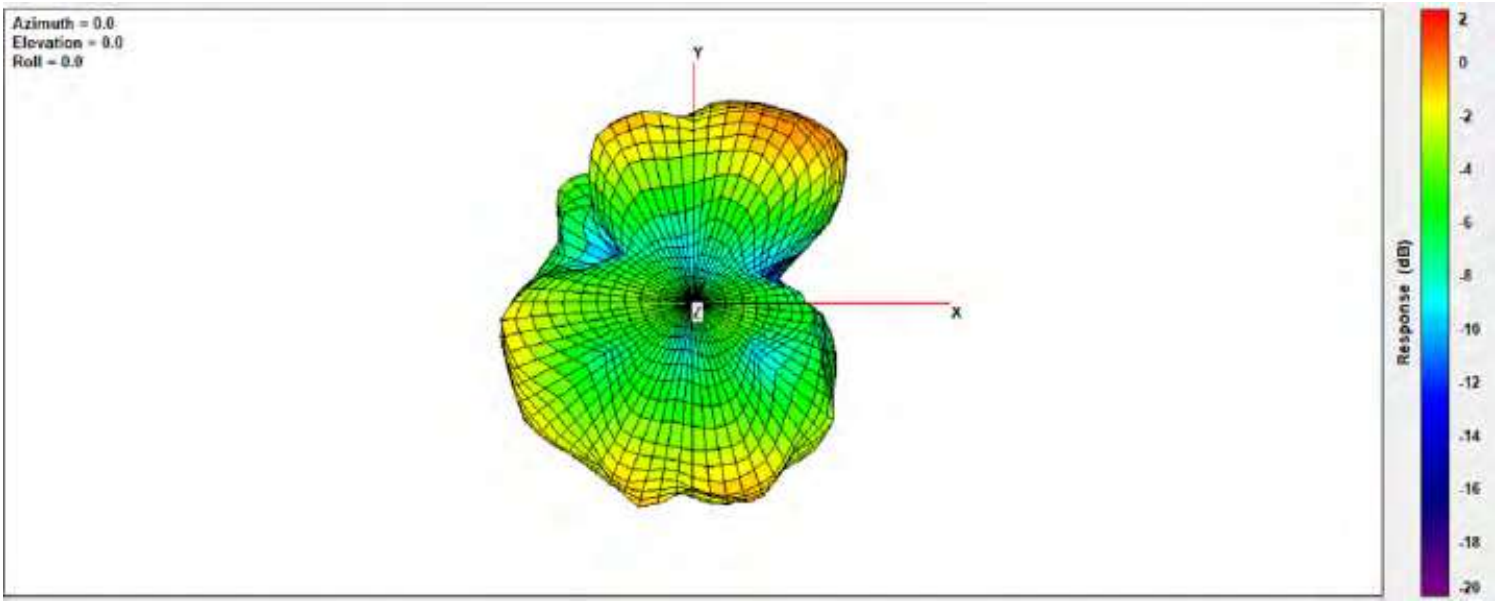
MIMO1 Antenna

1850MHz



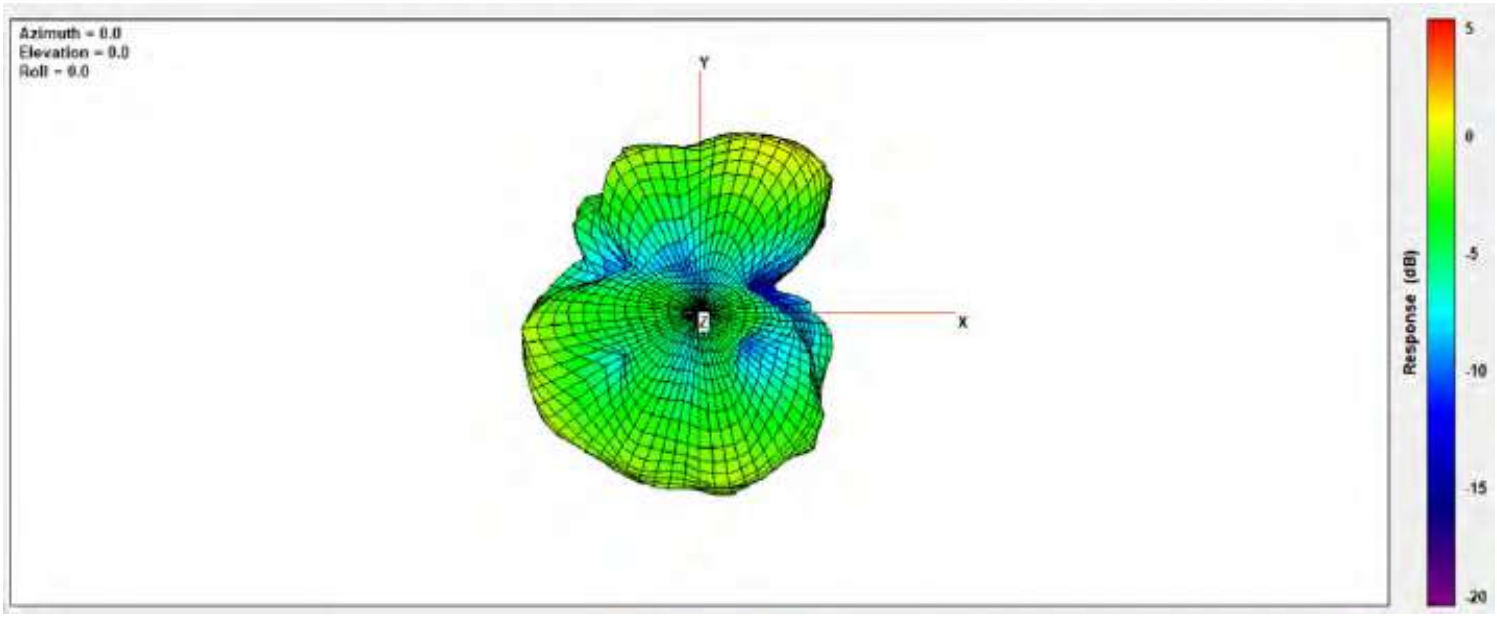
Center Frequency	**1850MHz**
Peak Gain W/ Cable loss (dBi)	-0.13

1880MHz



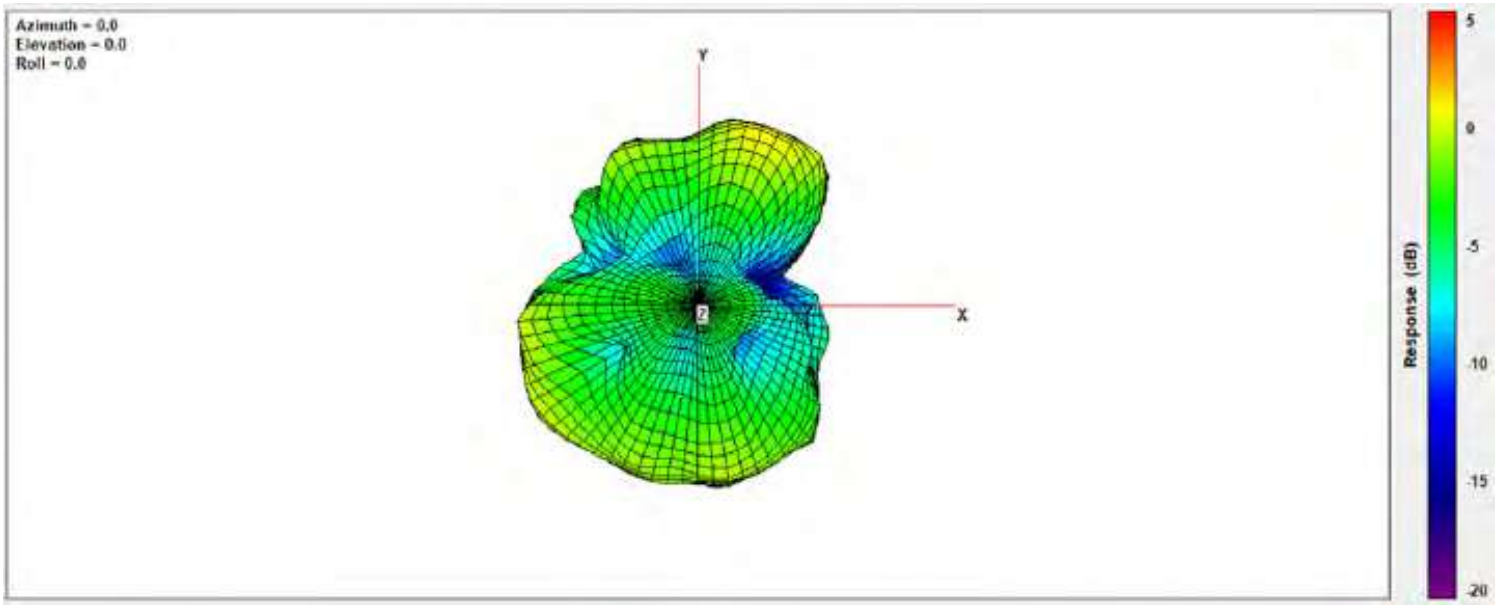
Center Frequency	**1880MHz**
Peak Gain W/ Cable loss (dBi)	0.83

1910MHz



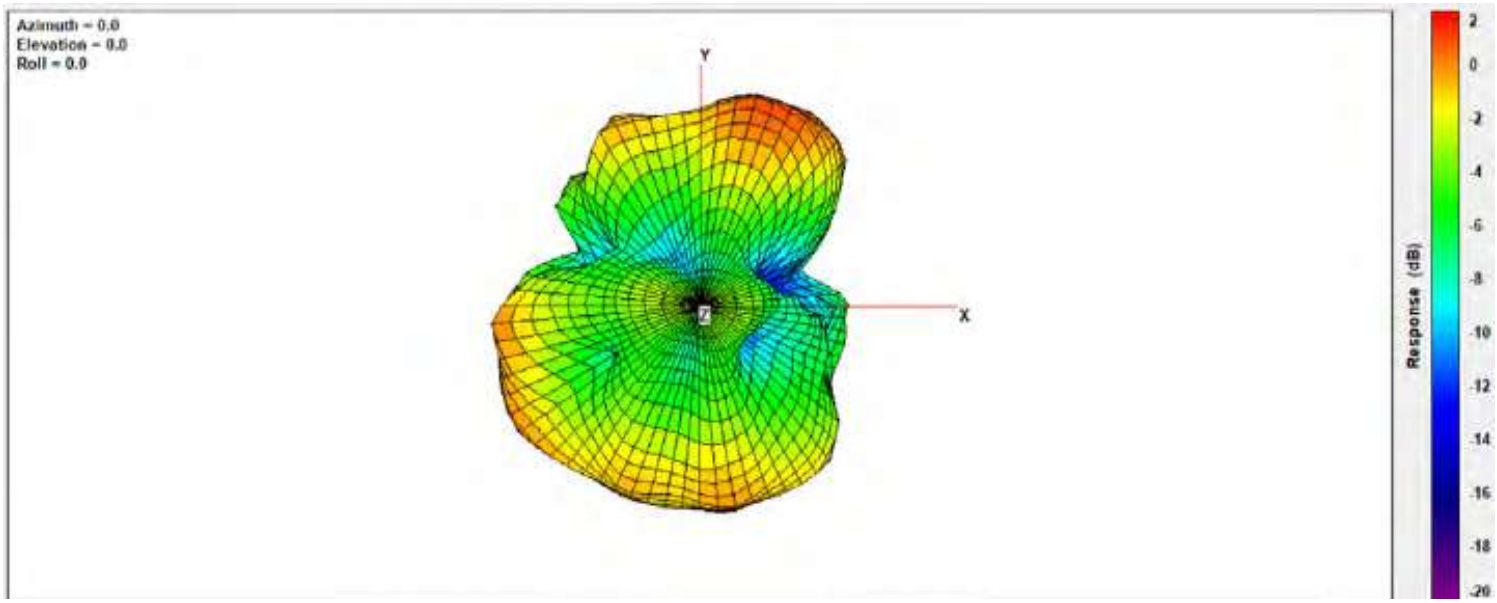
Center Frequency	**1910MHz**
Peak Gain W/ Cable loss (dBi)	1.33

1920MHz



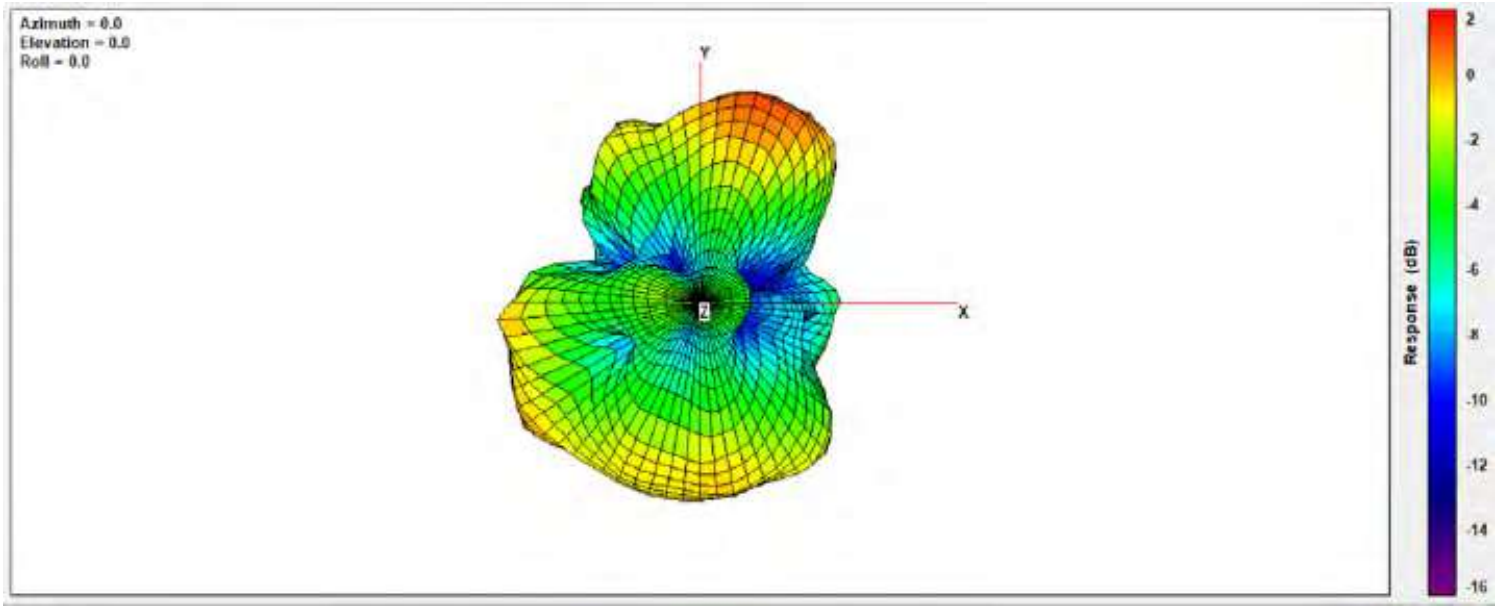
Center Frequency	**1920MHz**
Peak Gain W/ Cable loss (dBi)	1.55

1930MHz



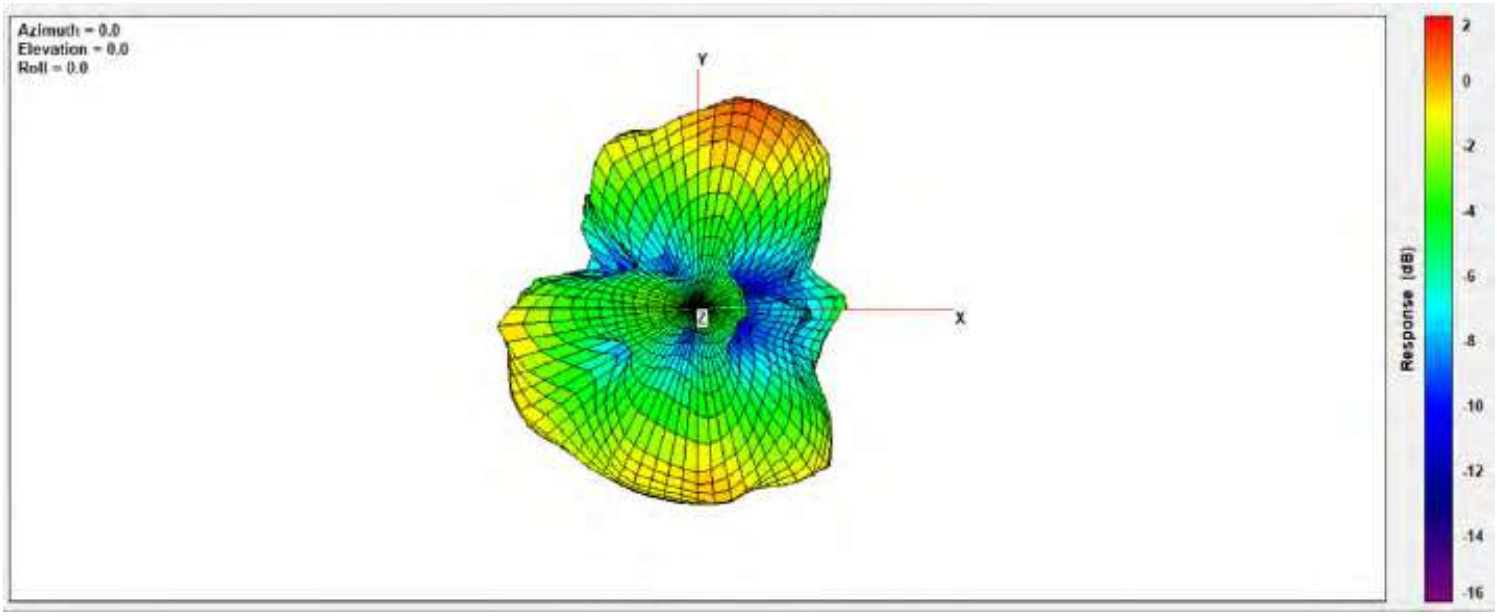
Center Frequency	**1930MHz**
Peak Gain W/ Cable loss (dBi)	1.48

1950MHz



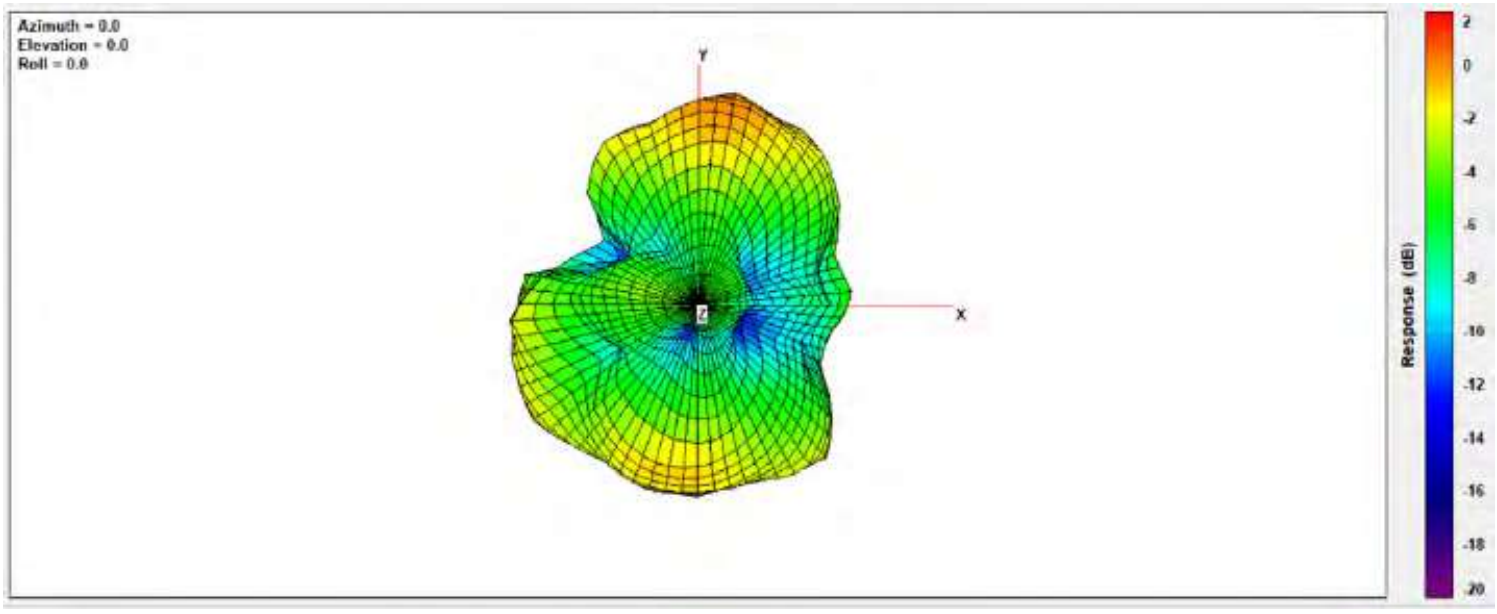
Center Frequency	**1950MHz**
Peak Gain W/ Cable loss (dBi)	1.51

1960MHz



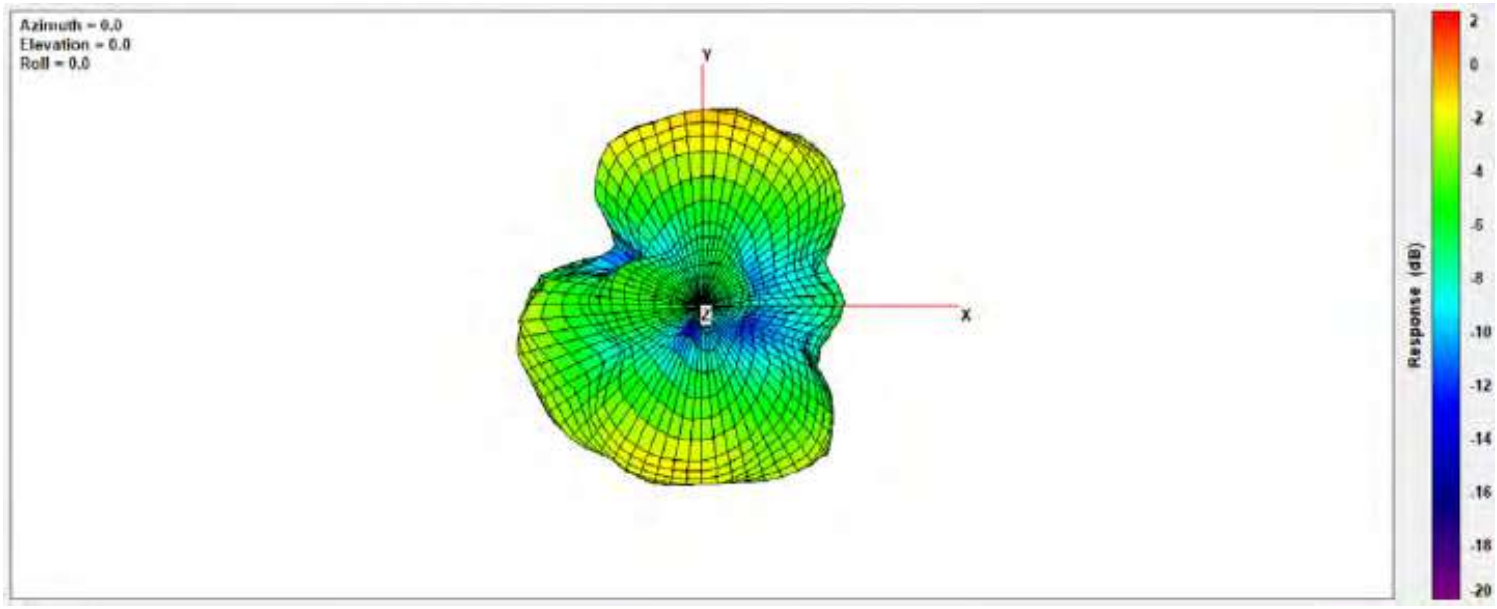
Center Frequency	**1960MHz**
Peak Gain W/ Cable loss (dBi)	1.66

1980MHz



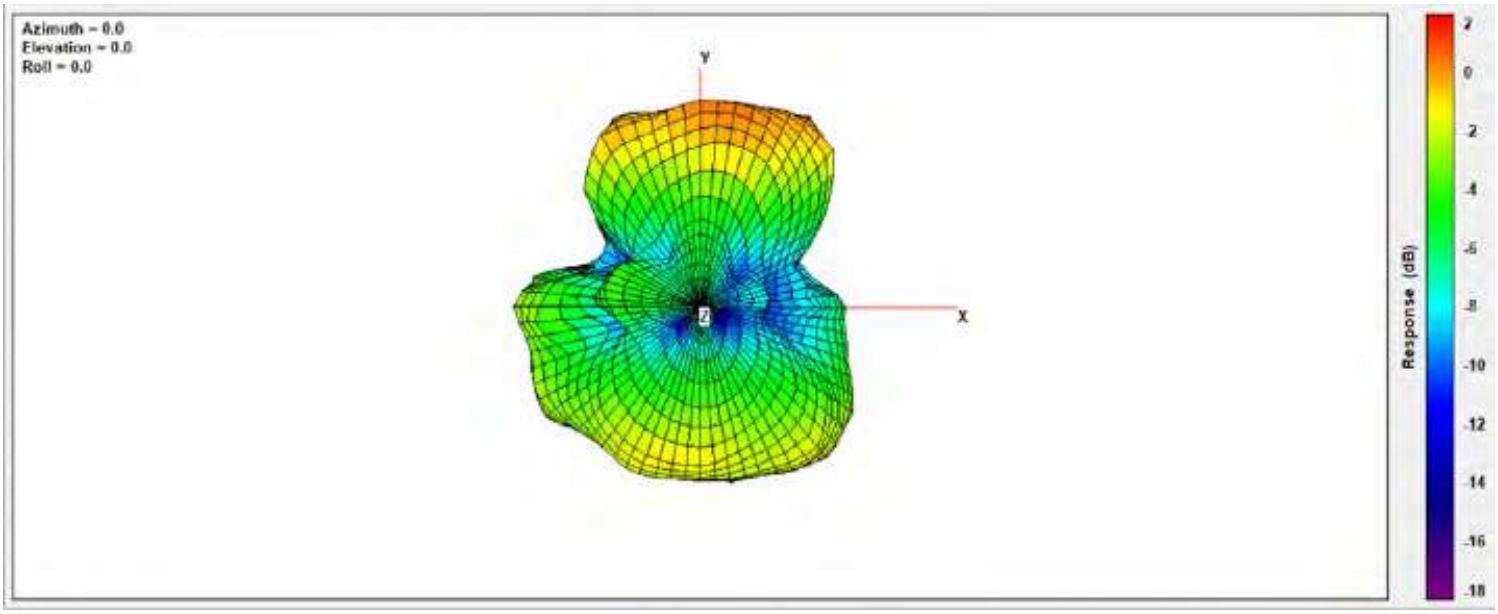
Center Frequency	**1980MHz**
Peak Gain W/ Cable loss (dBi)	1.33

1995MHz



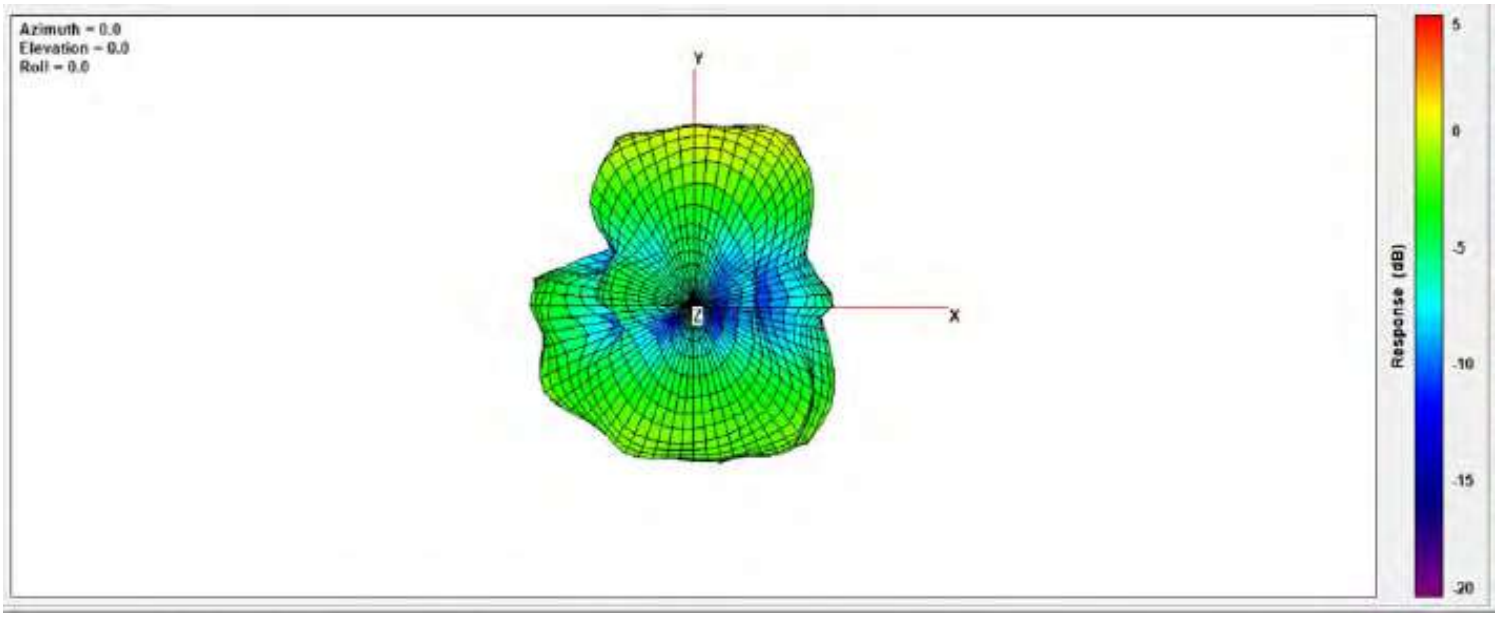
Center Frequency	**1995MHz**
Peak Gain W/ Cable loss (dBi)	0.95

2110MHz



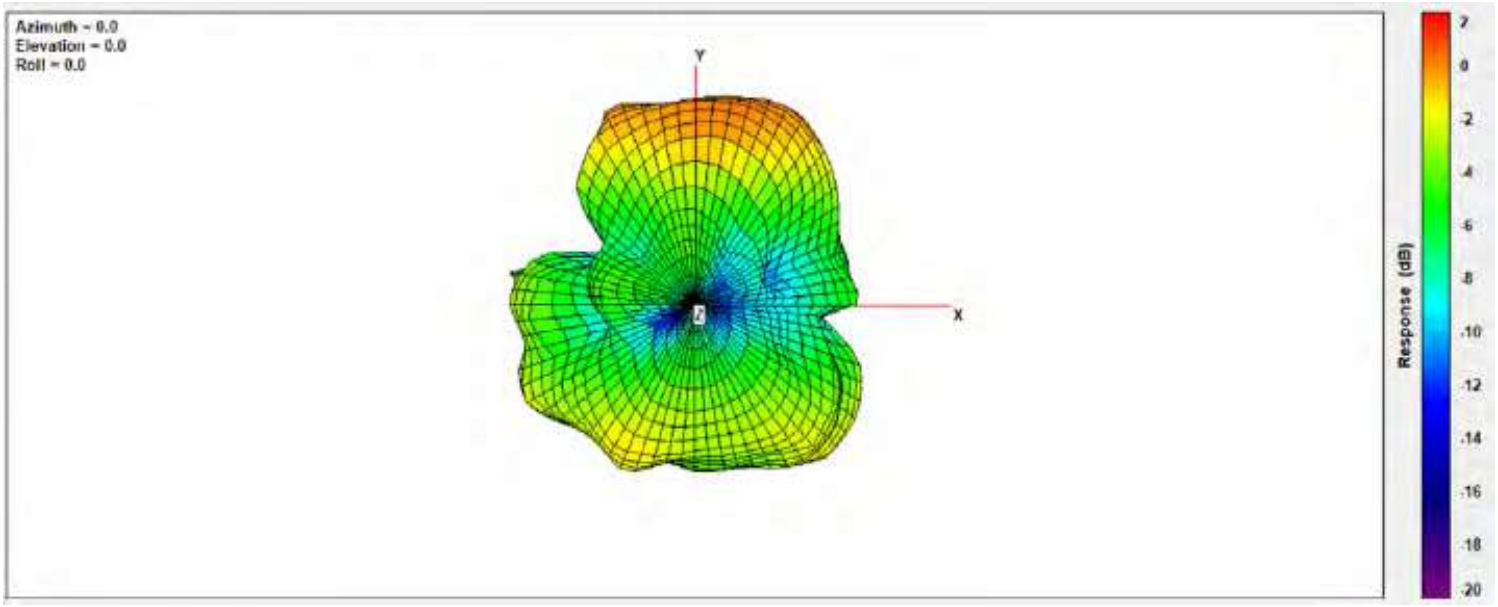
Center Frequency	**2110MHz**
Peak Gain W/ Cable loss (dBi)	0.91

2140MHz



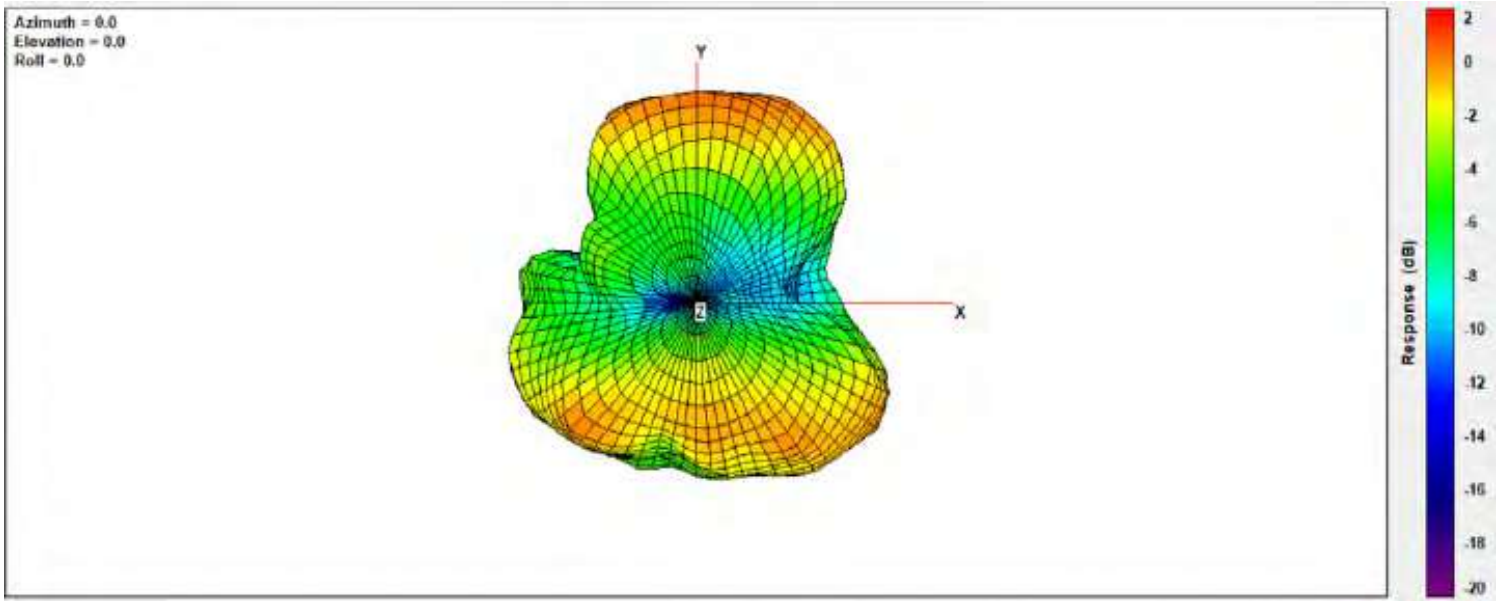
Center Frequency	**2140MHz**
Peak Gain W/ Cable loss (dBi)	1.17

2170MHz



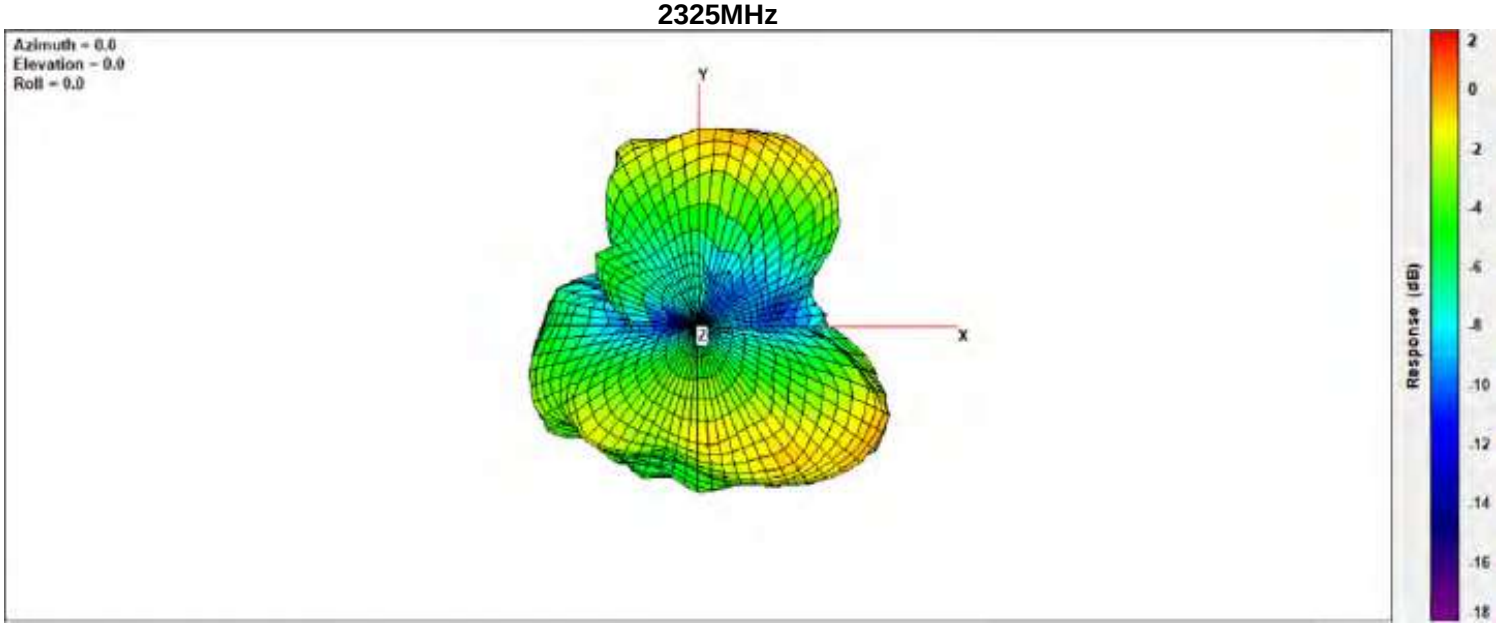
Center Frequency	**2170MHz**
Peak Gain W/ Cable loss (dBi)	0.75

2300MHz



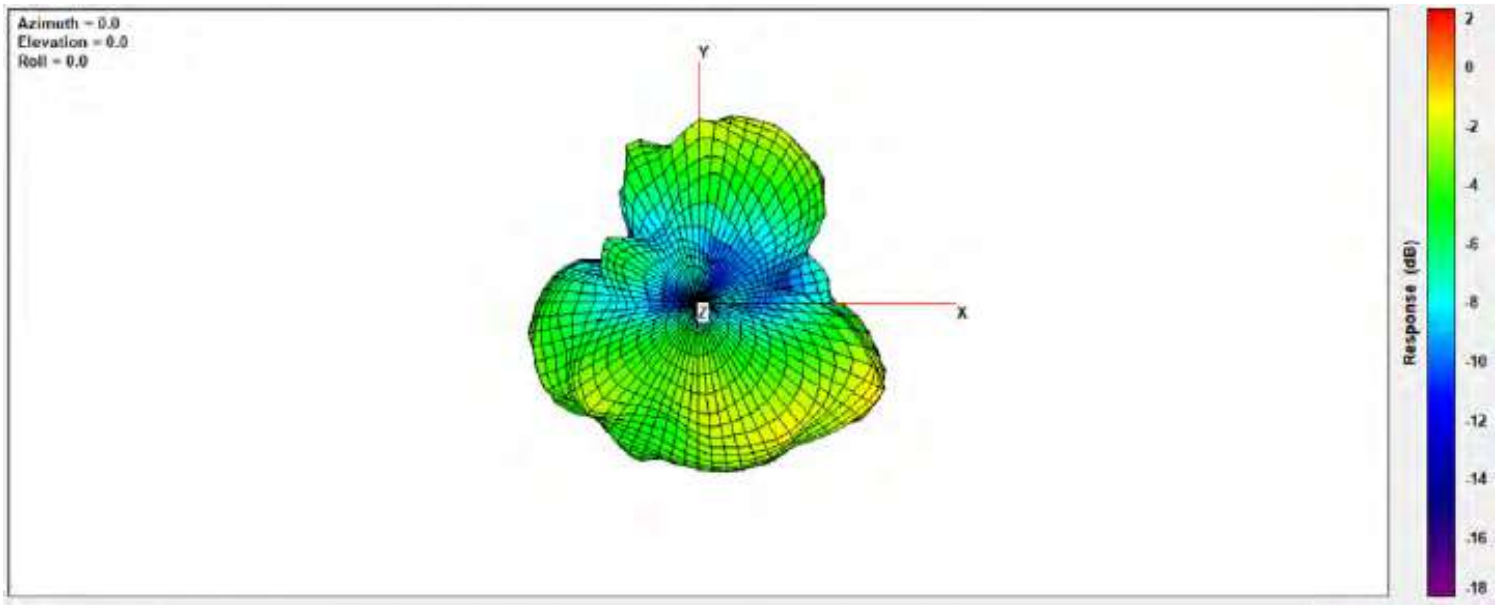
Center Frequency	**2300MHz**
Peak Gain W/ Cable loss (dBi)	1.14

2325MHz



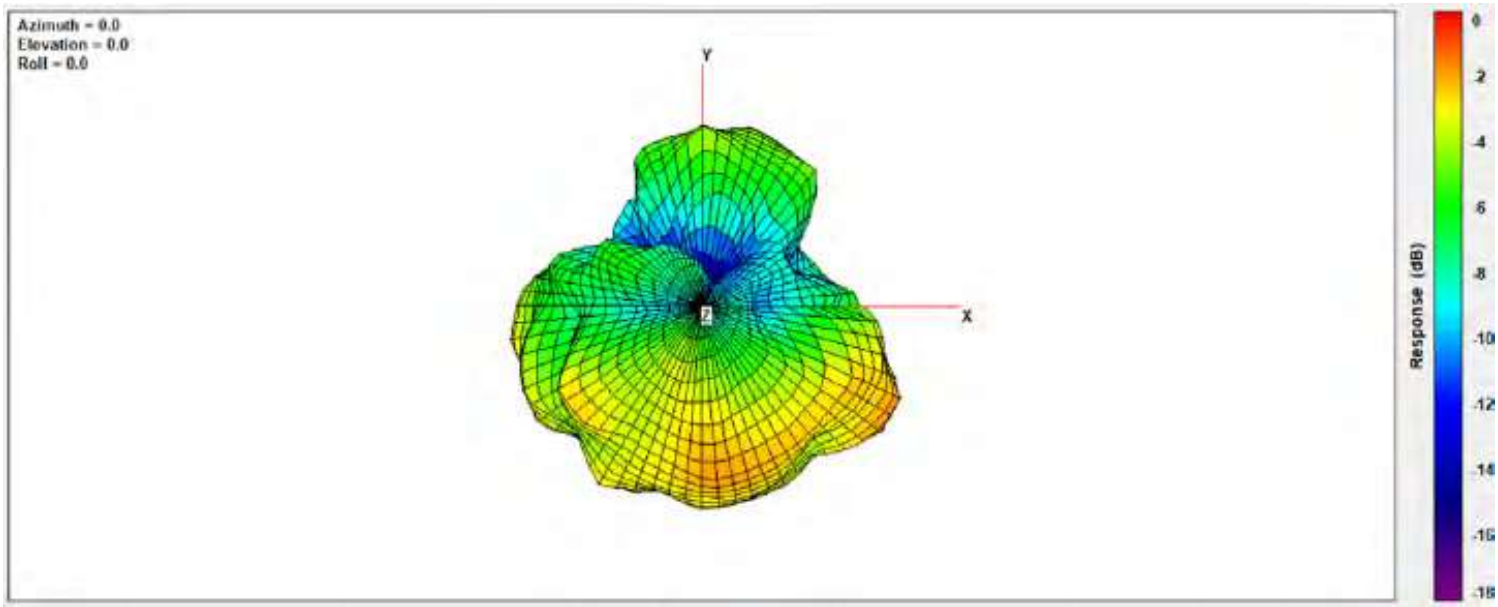
Center Frequency	**2325MHz**
Peak Gain W/ Cable loss (dBi)	0.88

2350MHz



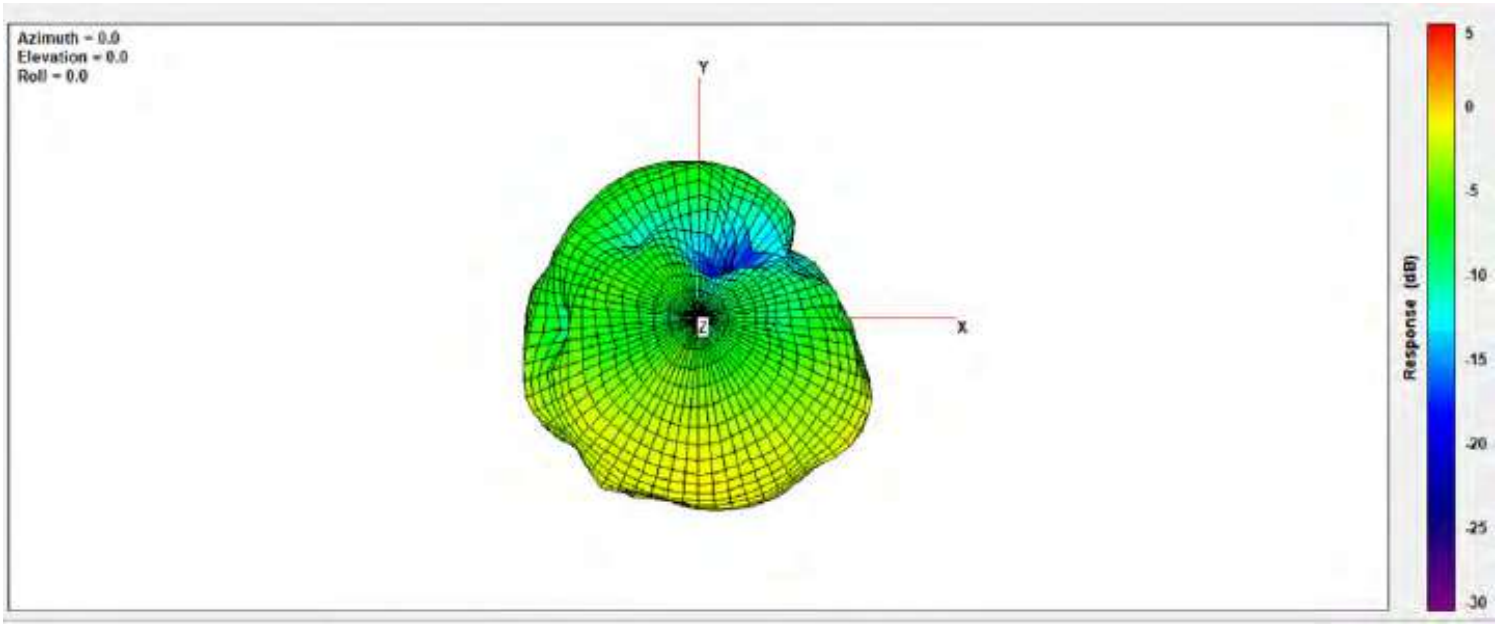
Center Frequency	**2350MHz**
Peak Gain W/ Cable loss (dBi)	0.57

2375MHz



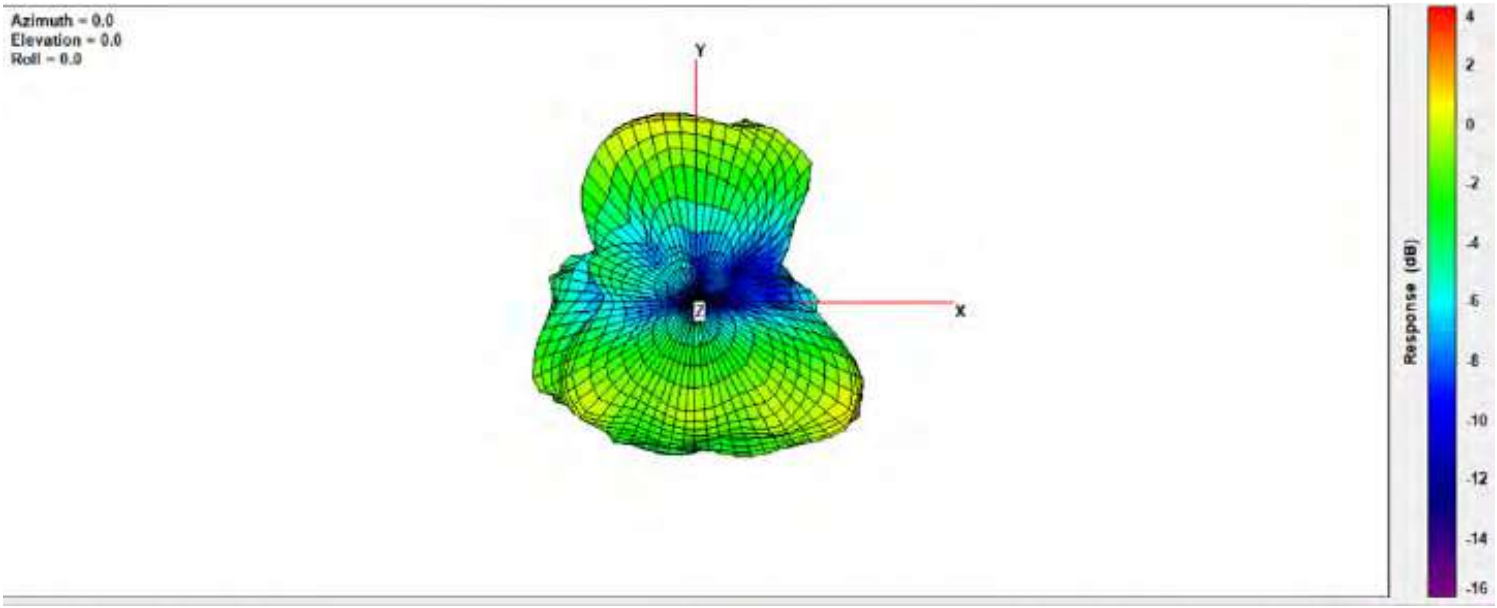
Center Frequency	**2375MHz**
Peak Gain W/ Cable loss (dBi)	-0.25

2400MHz



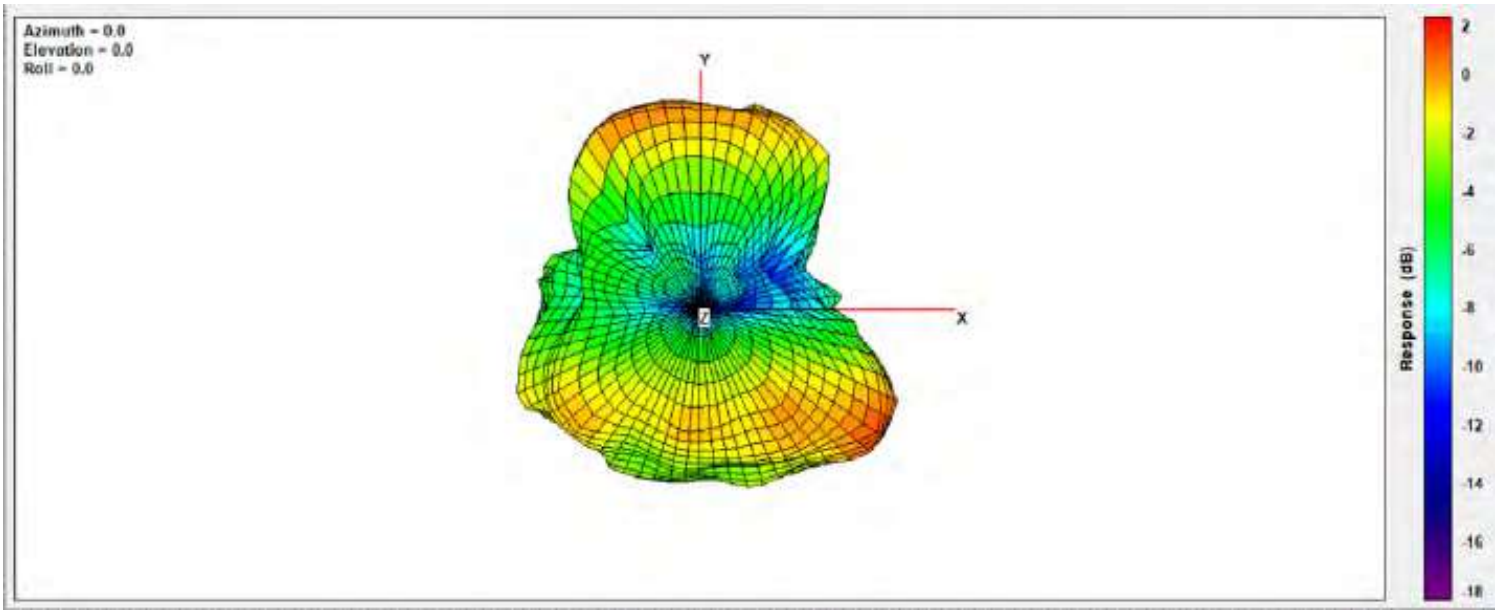
Center Frequency	**2400MHz**
Peak Gain W/ Cable loss (dBi)	0.22

2500MHz



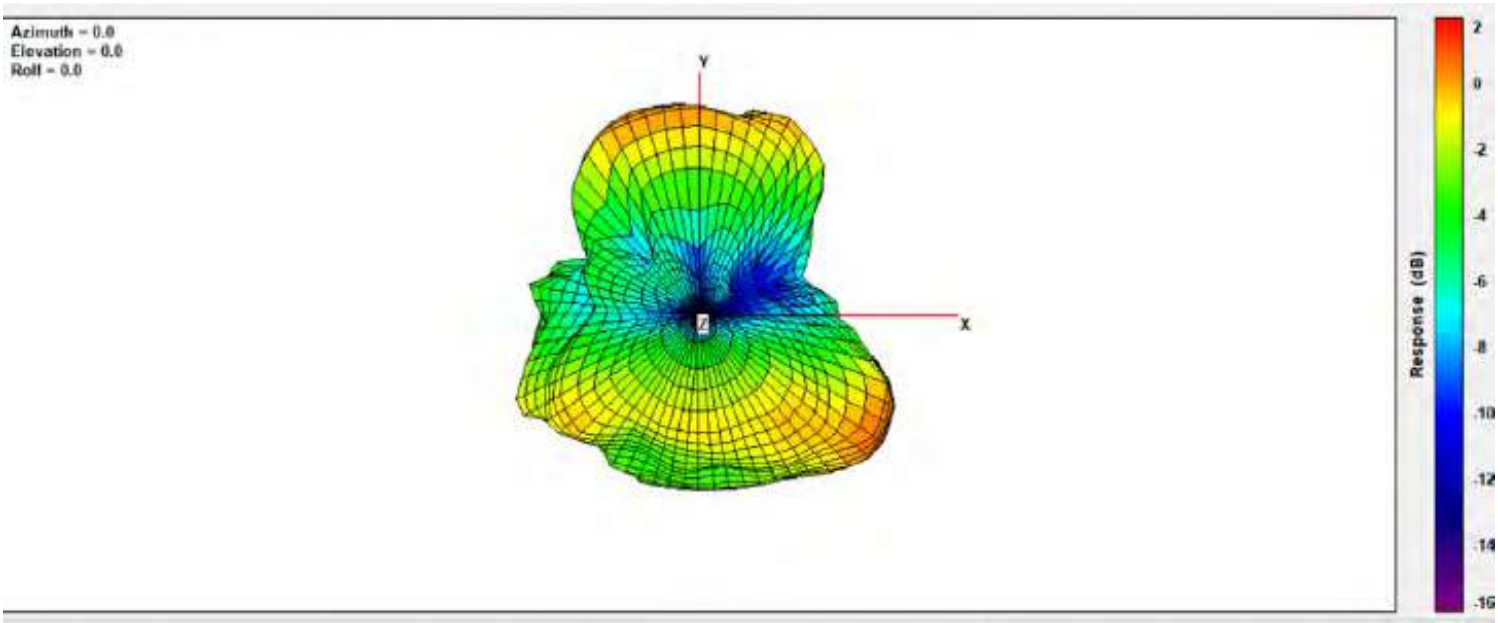
Center Frequency	**2500MHz**
Peak Gain W/ Cable loss (dBi)	2.02

2515MHz



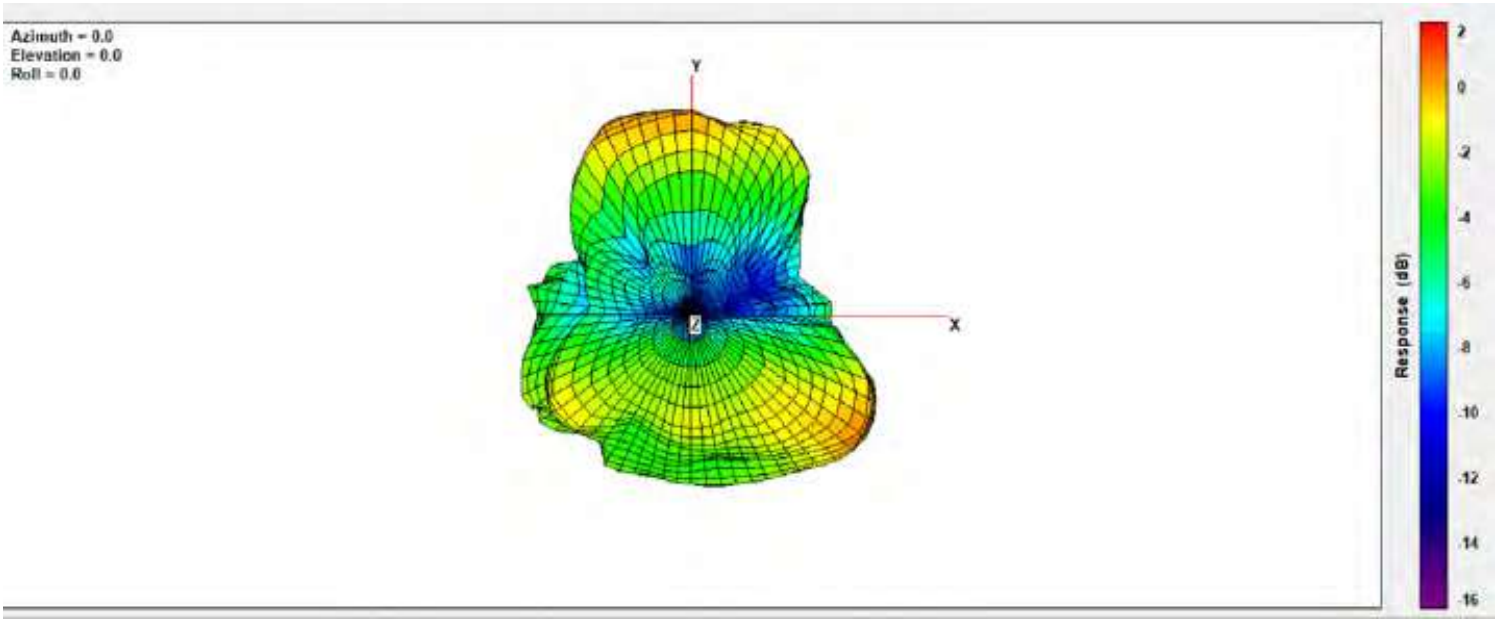
Center Frequency	**2515MHz**
Peak Gain W/ Cable loss (dBi)	1.96

2535MHz



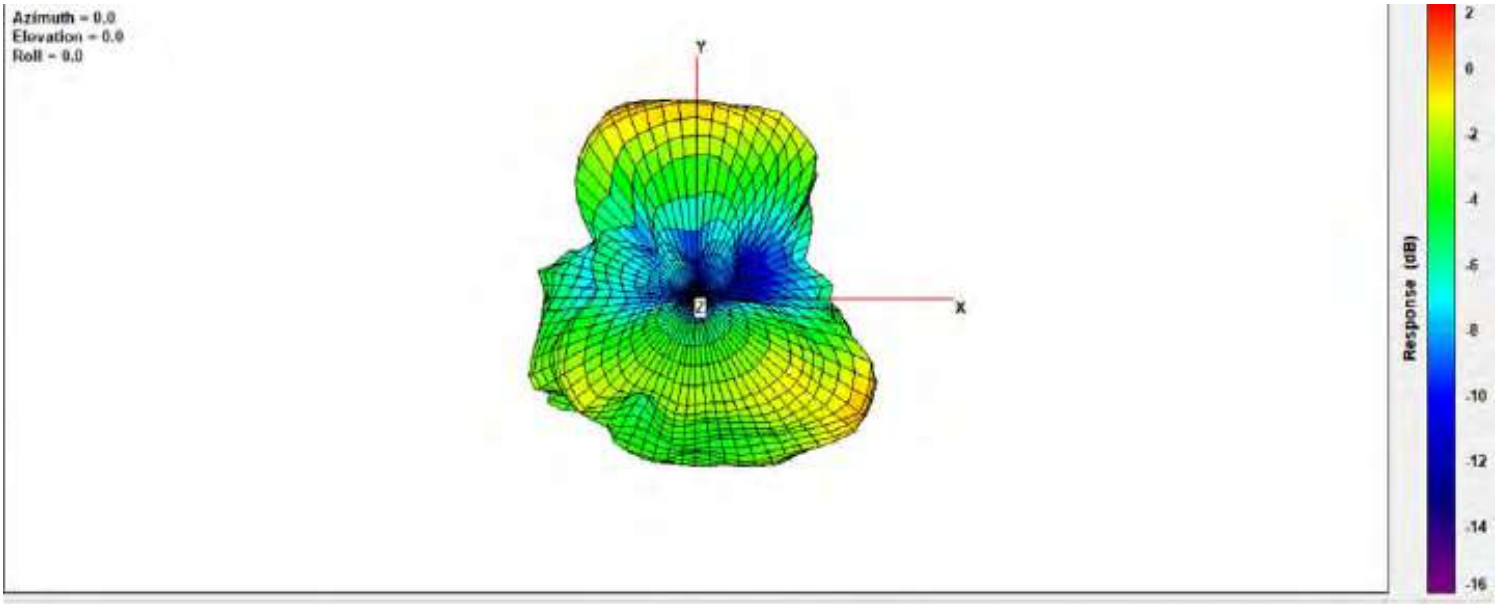
Center Frequency	**2535MHz**
Peak Gain W/ Cable loss (dBi)	1.95

2555MHz



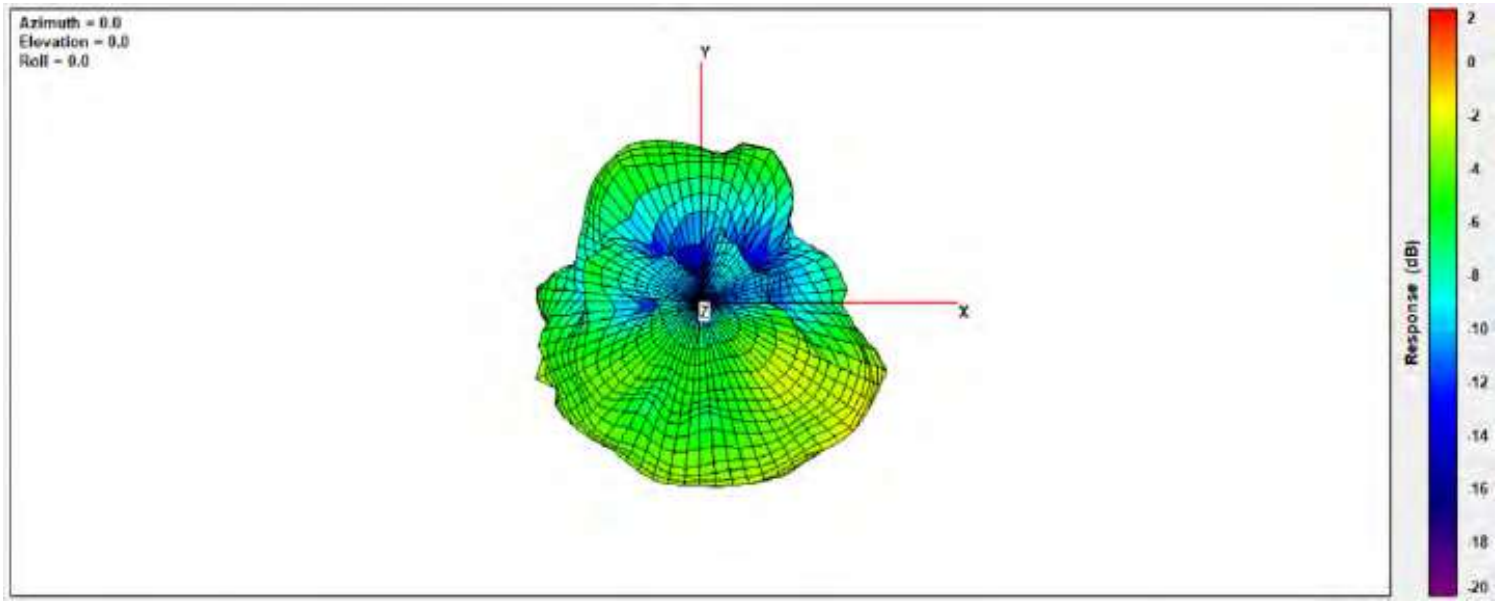
Center Frequency	**2555MHz**
Peak Gain W/ Cable loss (dBi)	1.53

2570MHz



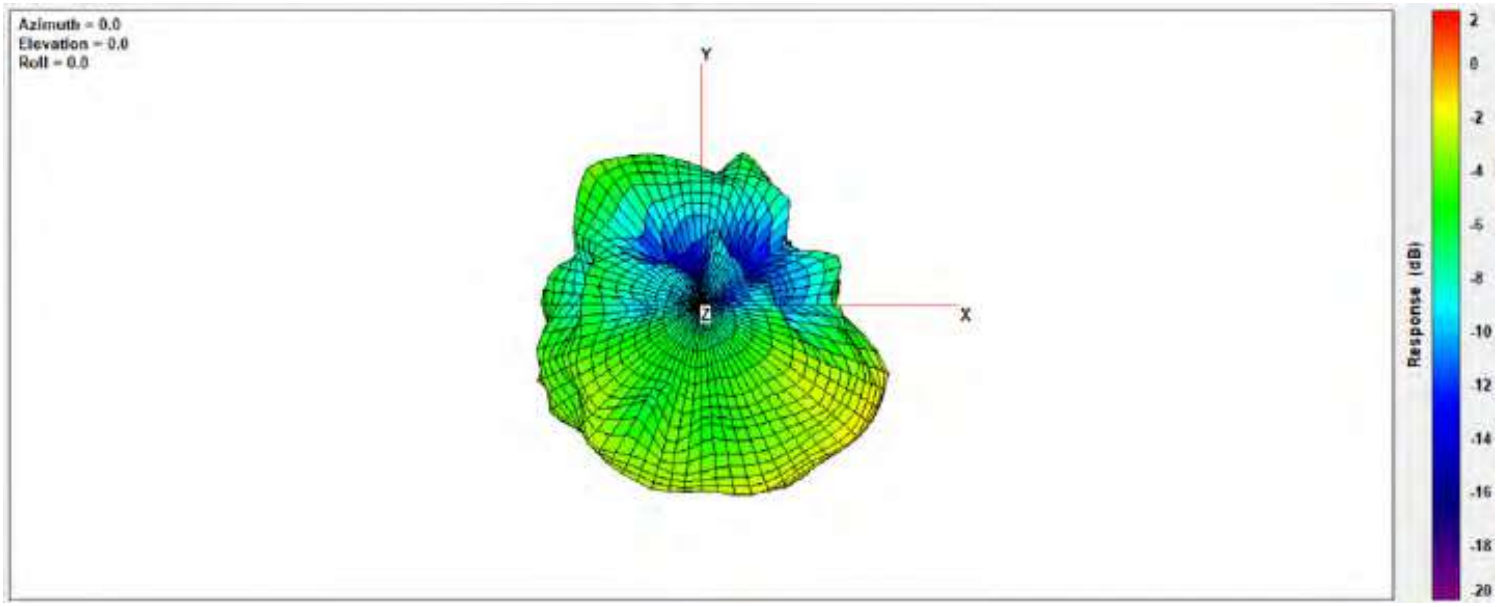
Center Frequency	**2570MHz**
Peak Gain W/ Cable loss (dBi)	1.34

2620MHz



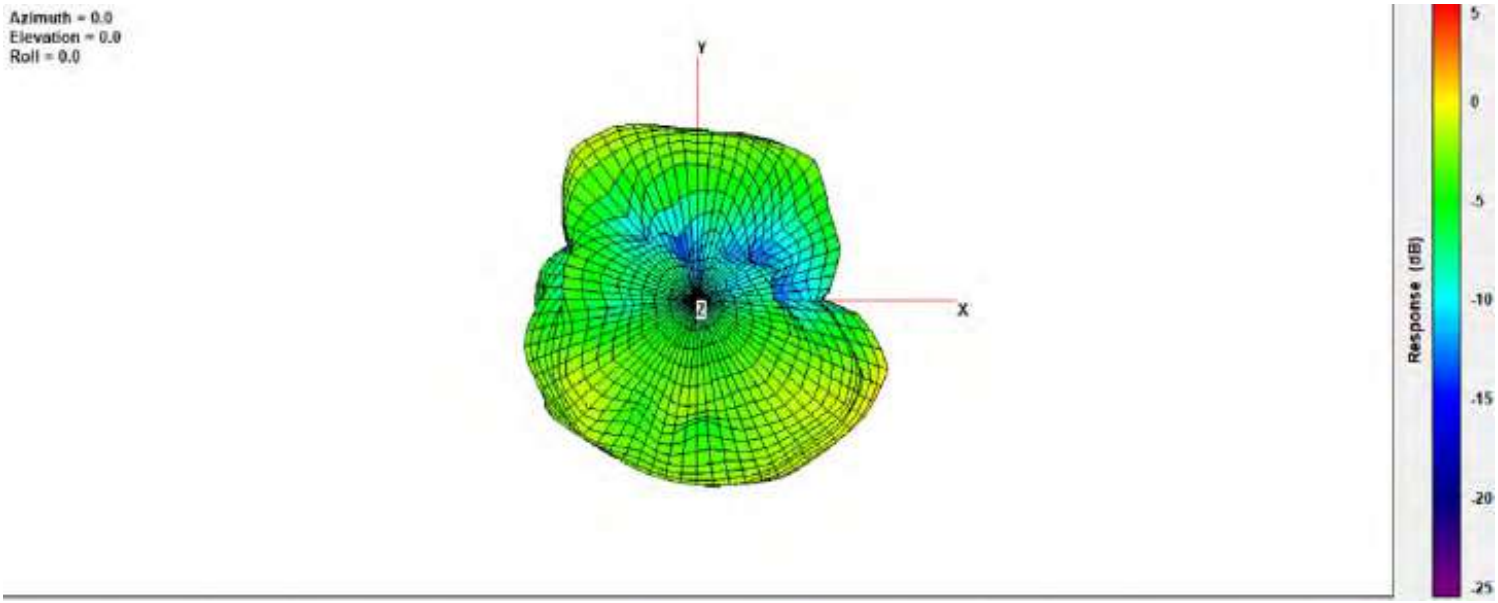
Center Frequency	**2620MHz**
Peak Gain W/ Cable loss (dBi)	0.17

2630MHz



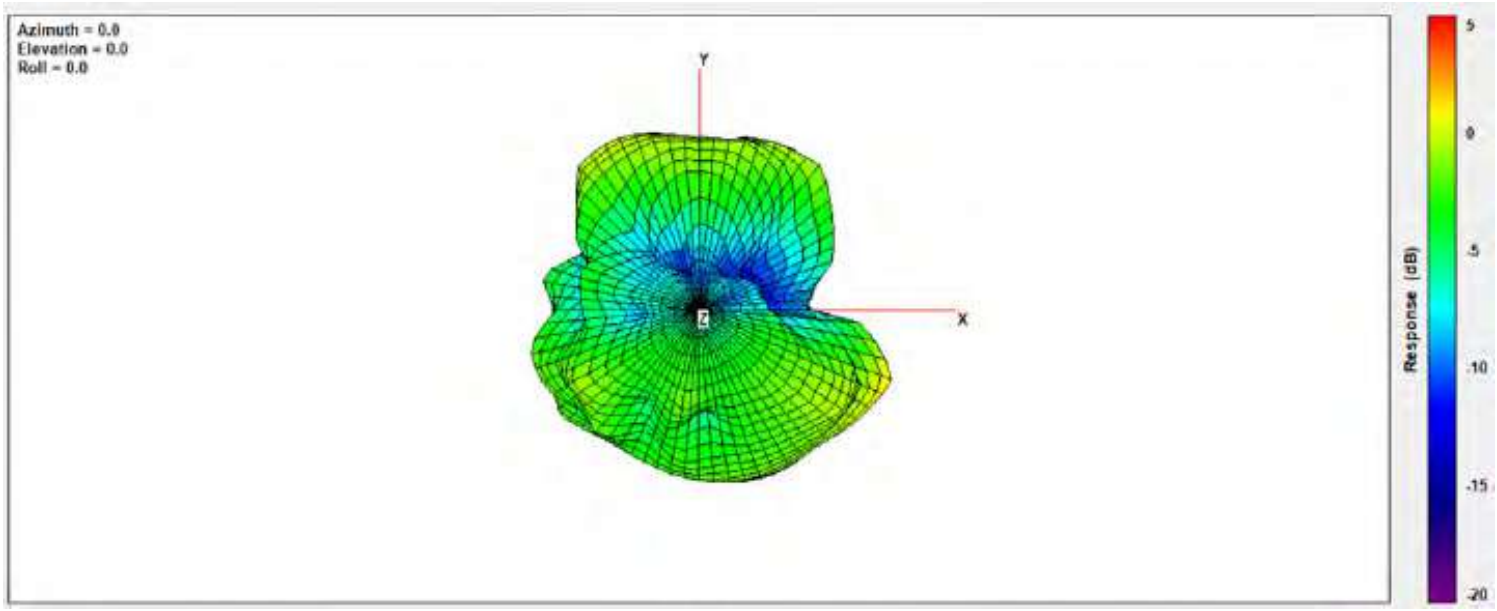
Center Frequency	**2630MHz**
Peak Gain W/ Cable loss (dBi)	0.25

2655MHz



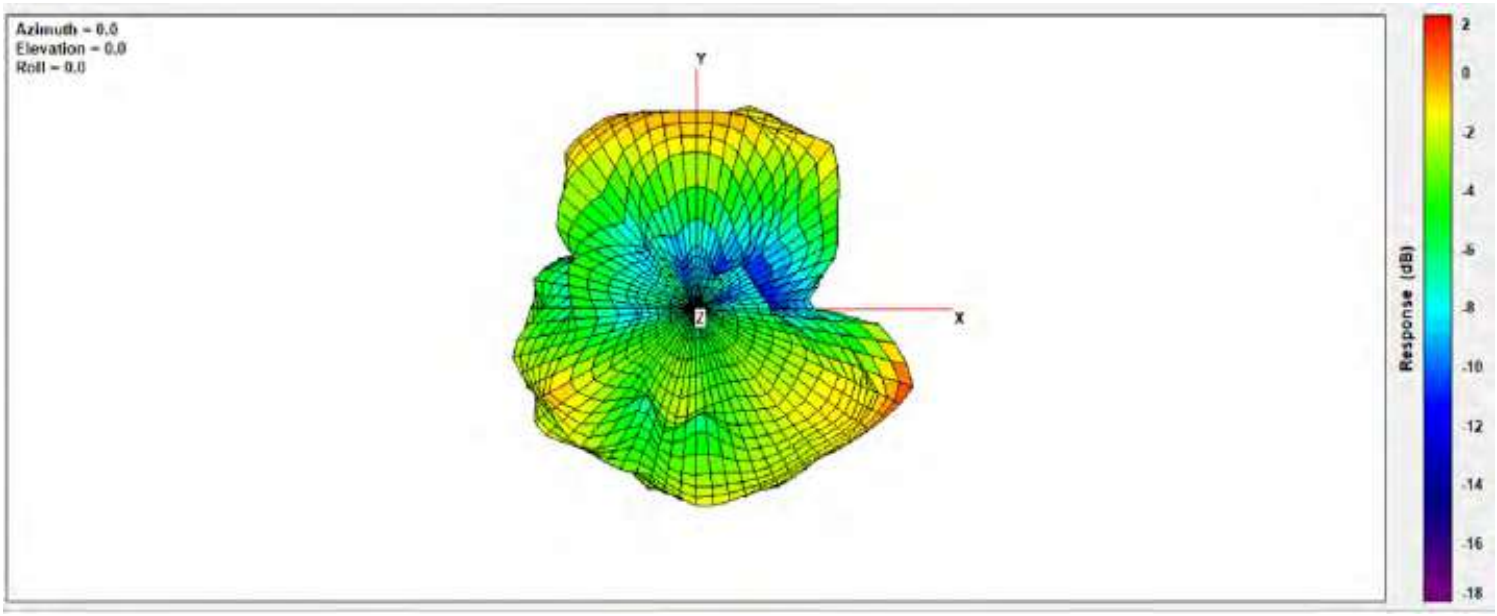
Center Frequency	**2655MHz**
Peak Gain W/ Cable loss (dBi)	1.14

2680MHz



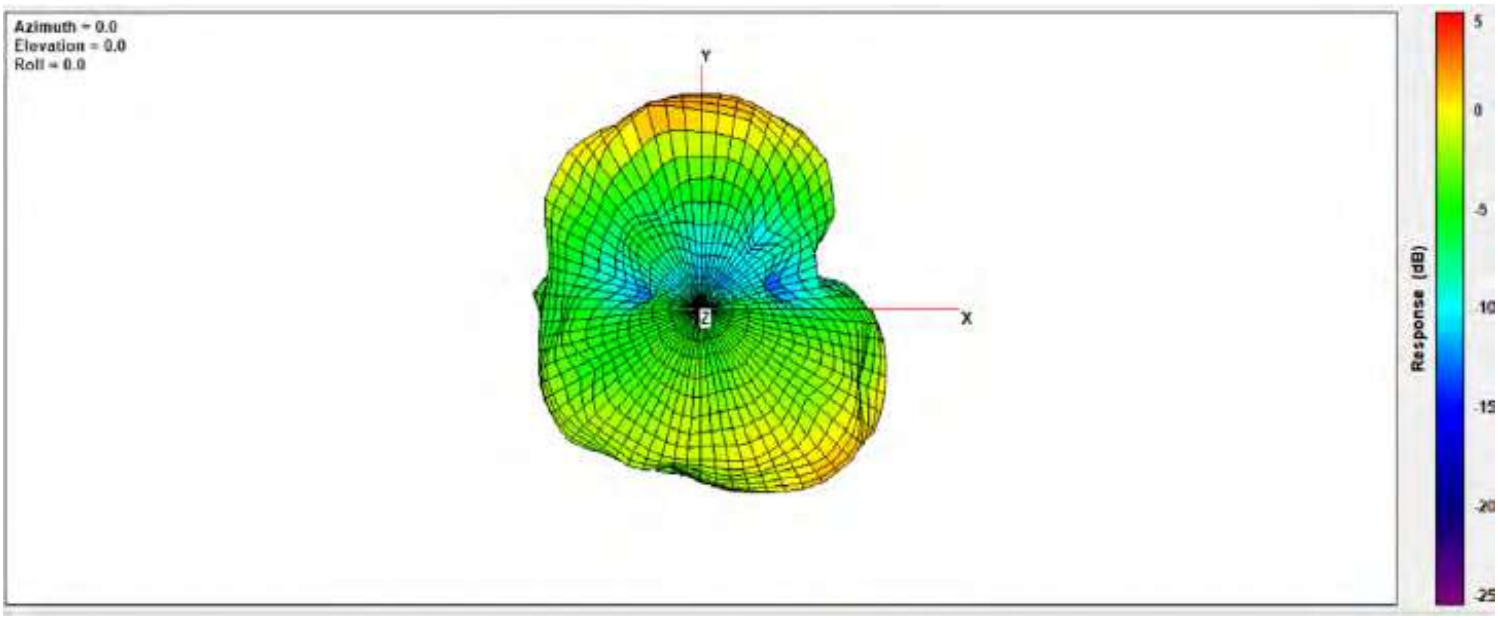
Center Frequency	**2680MHz**
Peak Gain W/ Cable loss (dBi)	2.06

2690MHz



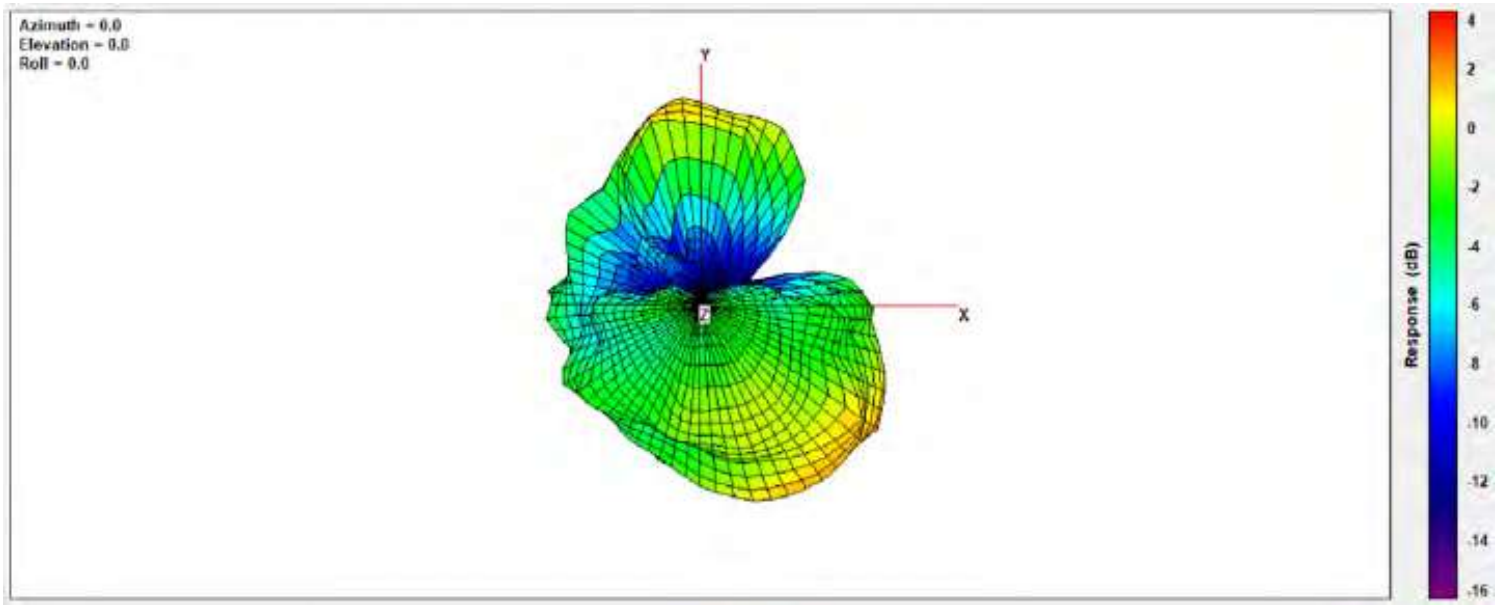
Center Frequency	**2690MHz**
Peak Gain W/ Cable loss (dBi)	1.88

3300MHz



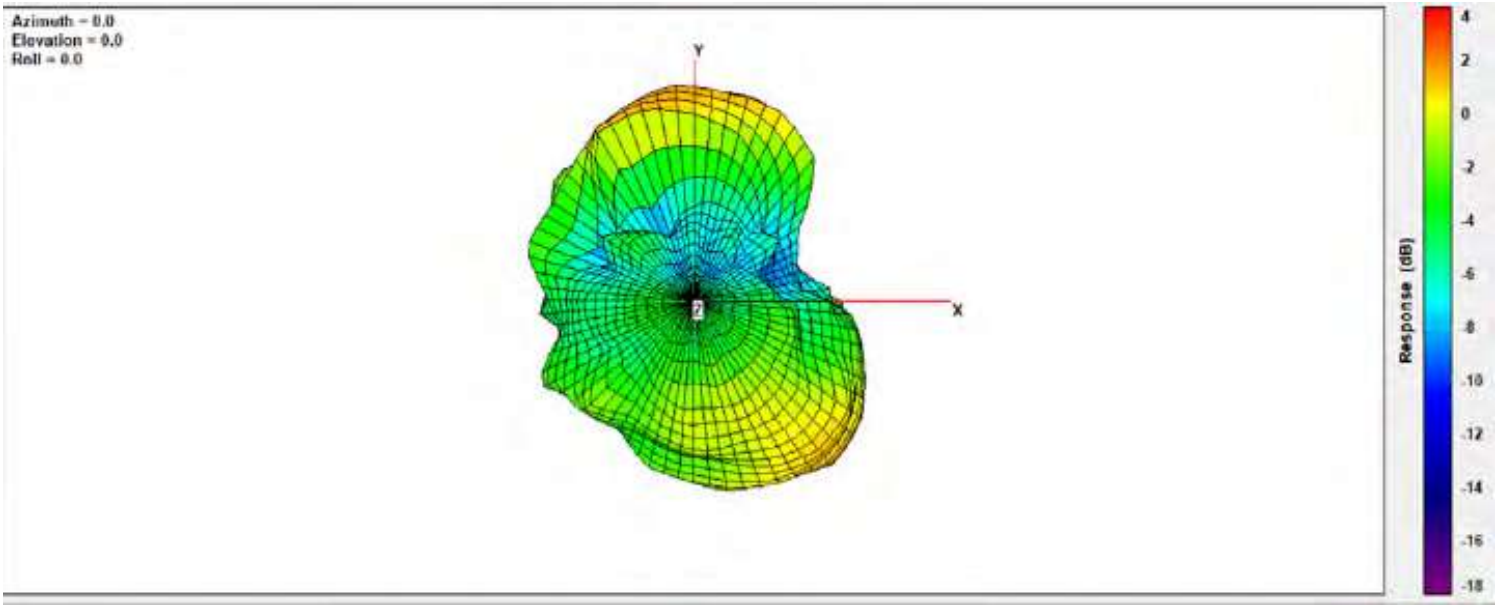
Center Frequency	**3300MHz**
Peak Gain W/ Cable loss (dBi)	2.98

3400MHz



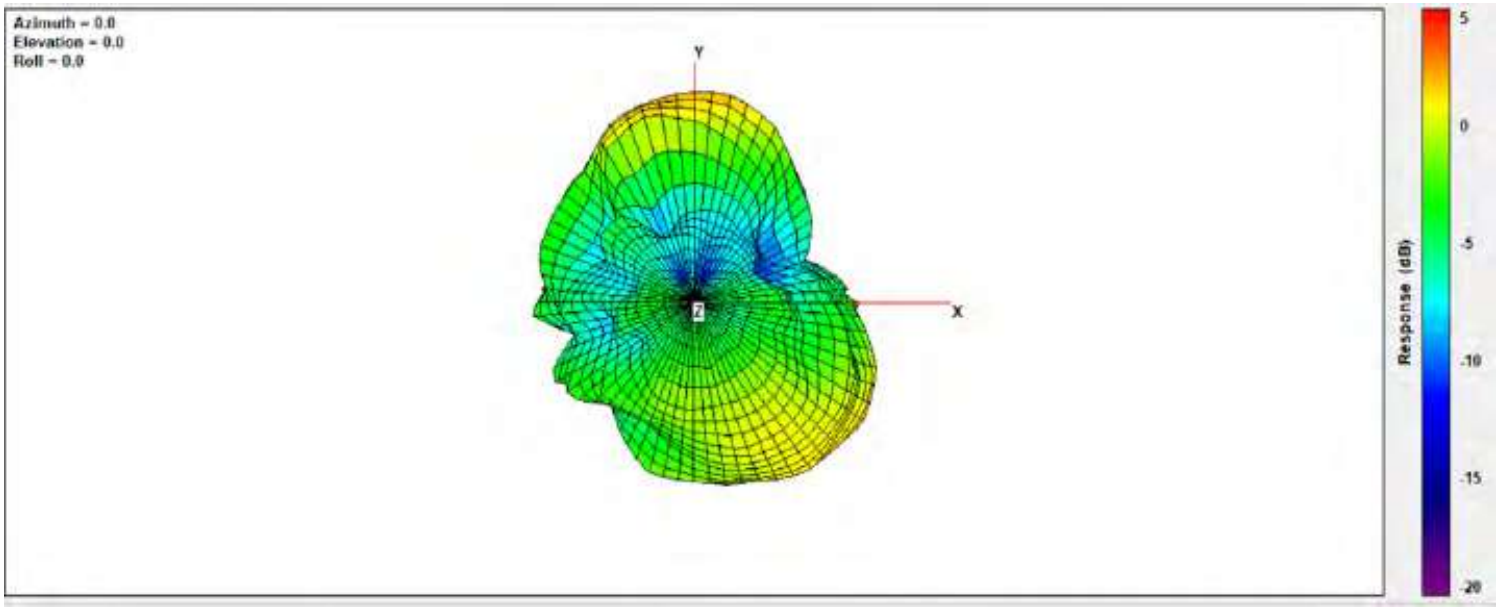
Center Frequency	**3400MHz**
Peak Gain W/ Cable loss (dBi)	0.5

3550MHz



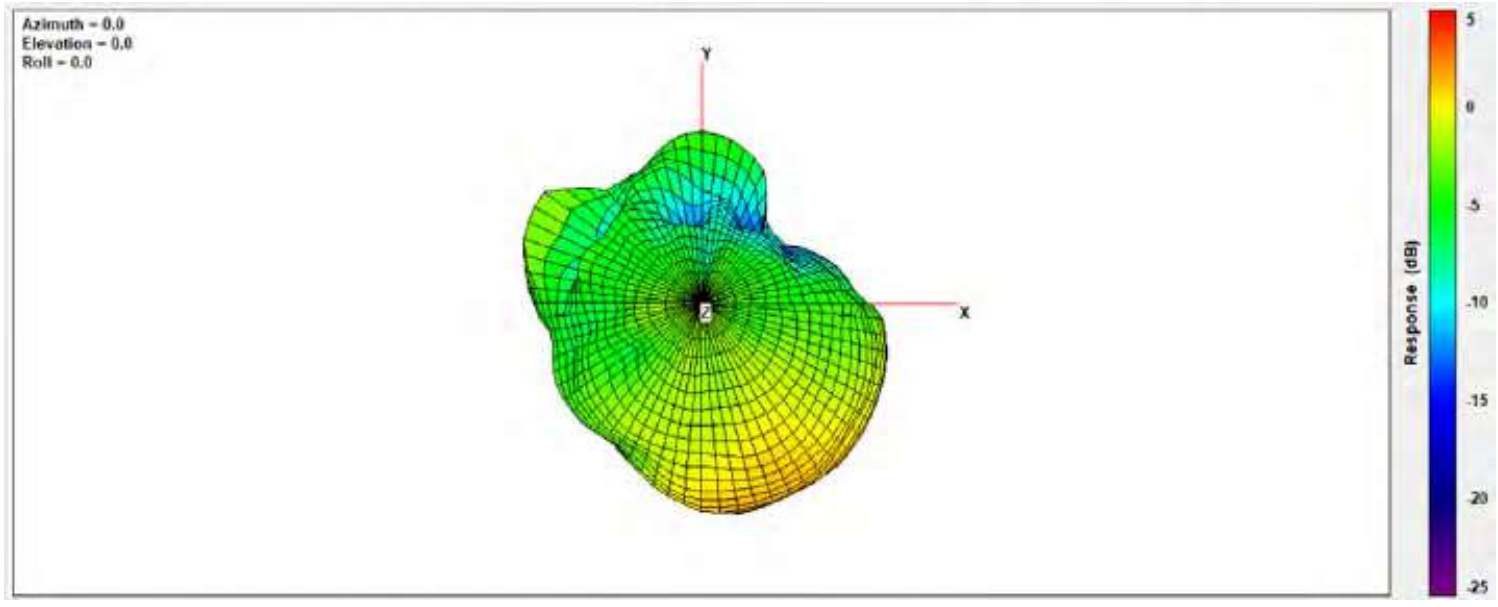
Center Frequency	**3550MHz**
Peak Gain W/ Cable loss (dBi)	0.20

3600MHz



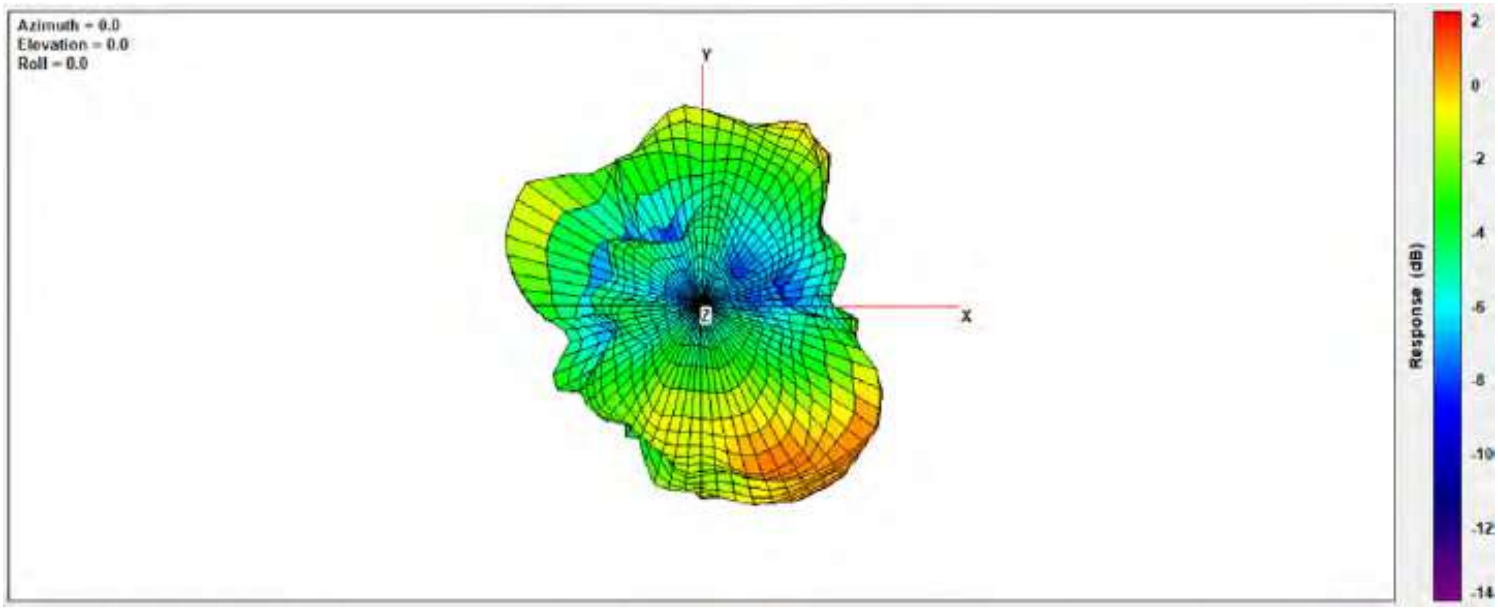
Center Frequency	**3600MHz**
Peak Gain W/ Cable loss (dBi)	0.39

3700MHz



Center Frequency	**3700MHz**
Peak Gain W/ Cable loss (dBi)	0.85

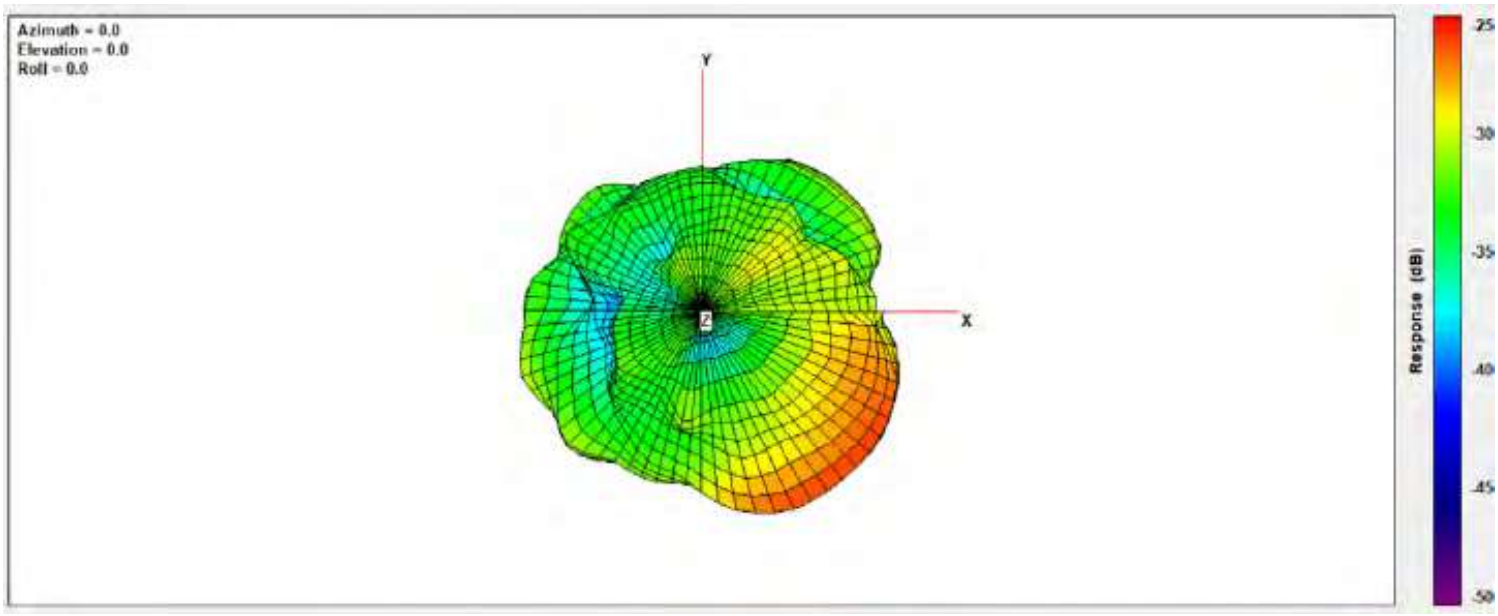
3800MHz



Center Frequency	**3800MHz**
Peak Gain W/ Cable loss (dBi)	1.63

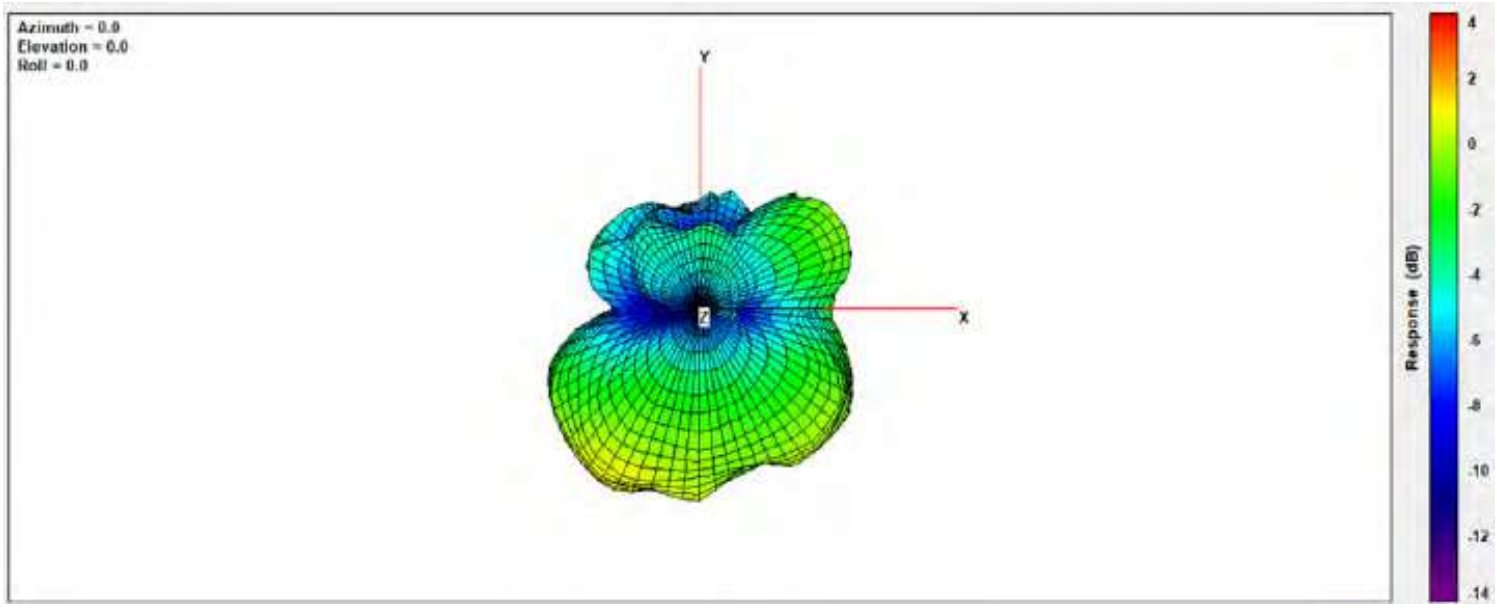
MIMO2 Antenna

1850MHz



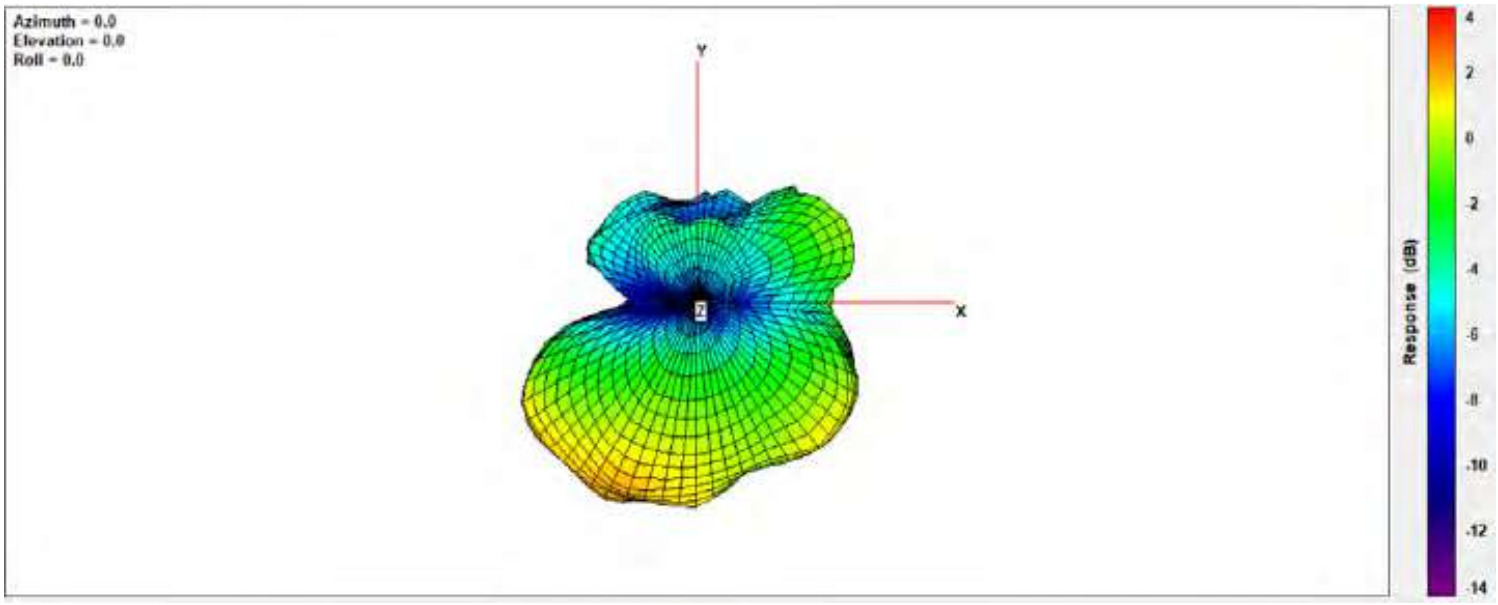
Center Frequency	**1850MHz**
Peak Gain W/ Cable loss (dBi)	1.68

1880MHz



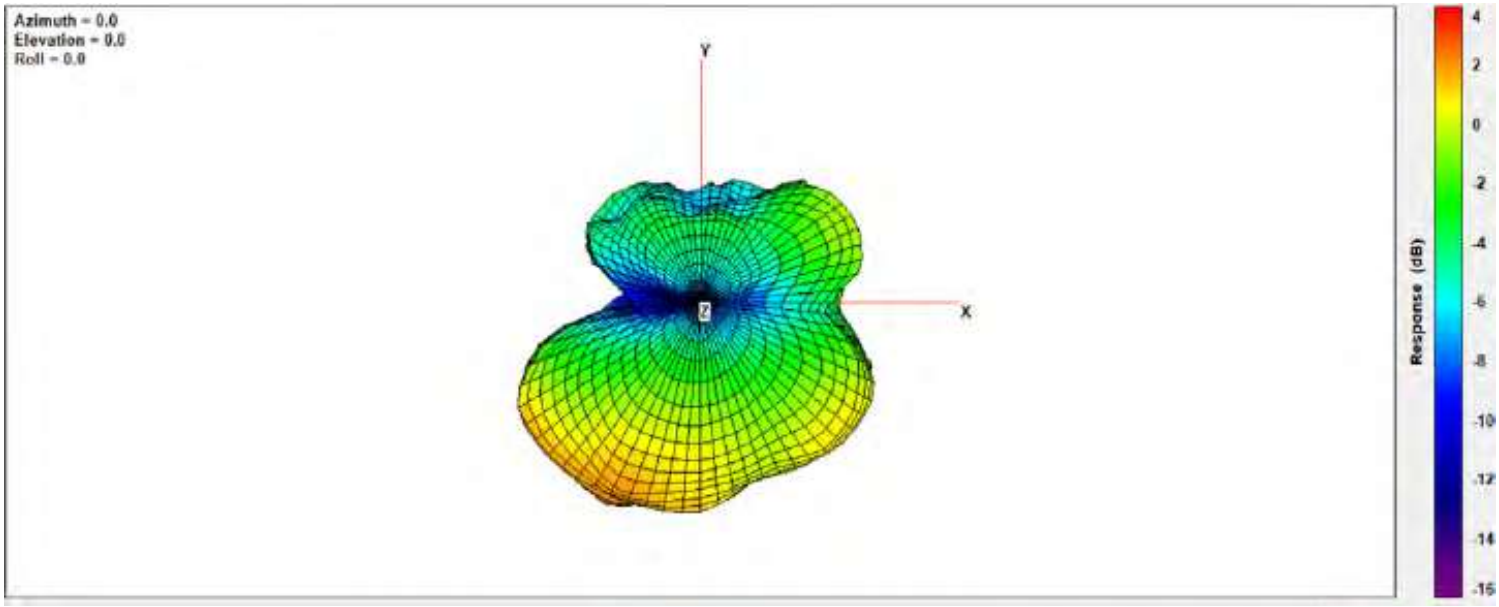
Center Frequency	**1880MHz**
Peak Gain W/ Cable loss (dBi)	2.16

1910MHz



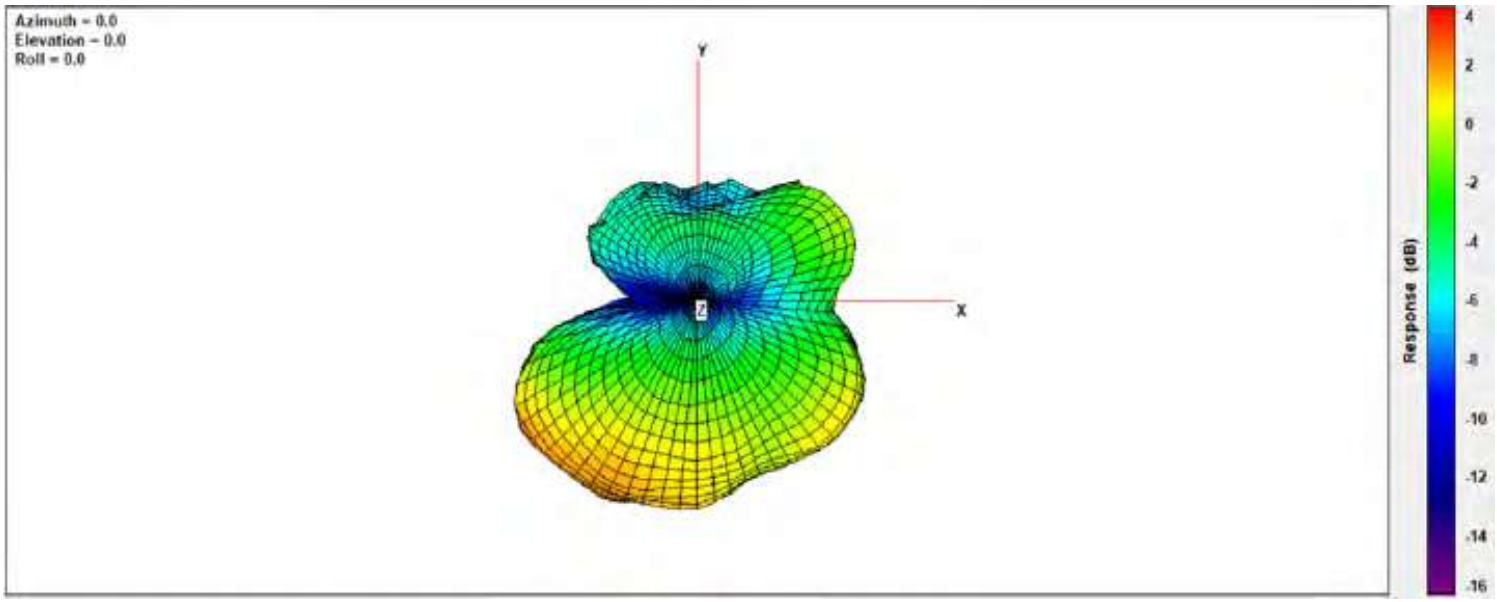
Center Frequency	**1910MHz**
Peak Gain W/ Cable loss (dBi)	2.90

1920MHz



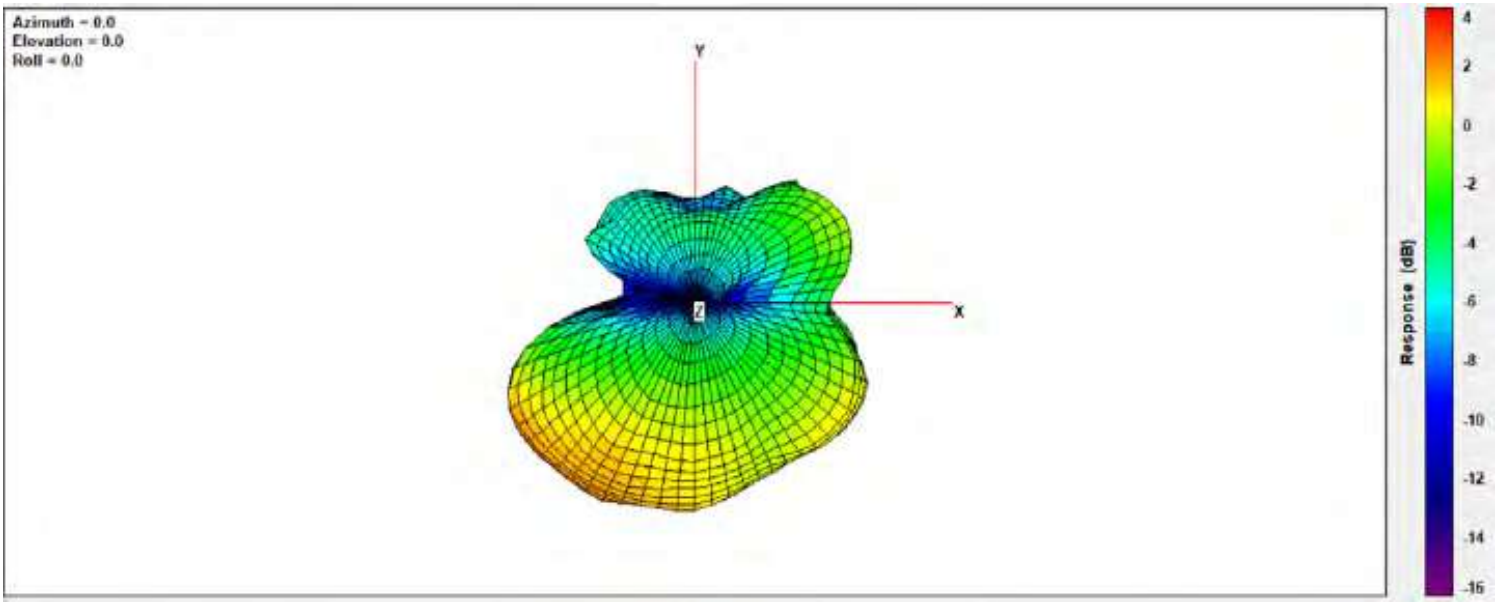
Center Frequency	**1920MHz**
Peak Gain W/ Cable loss (dBi)	3.13

1930MHz



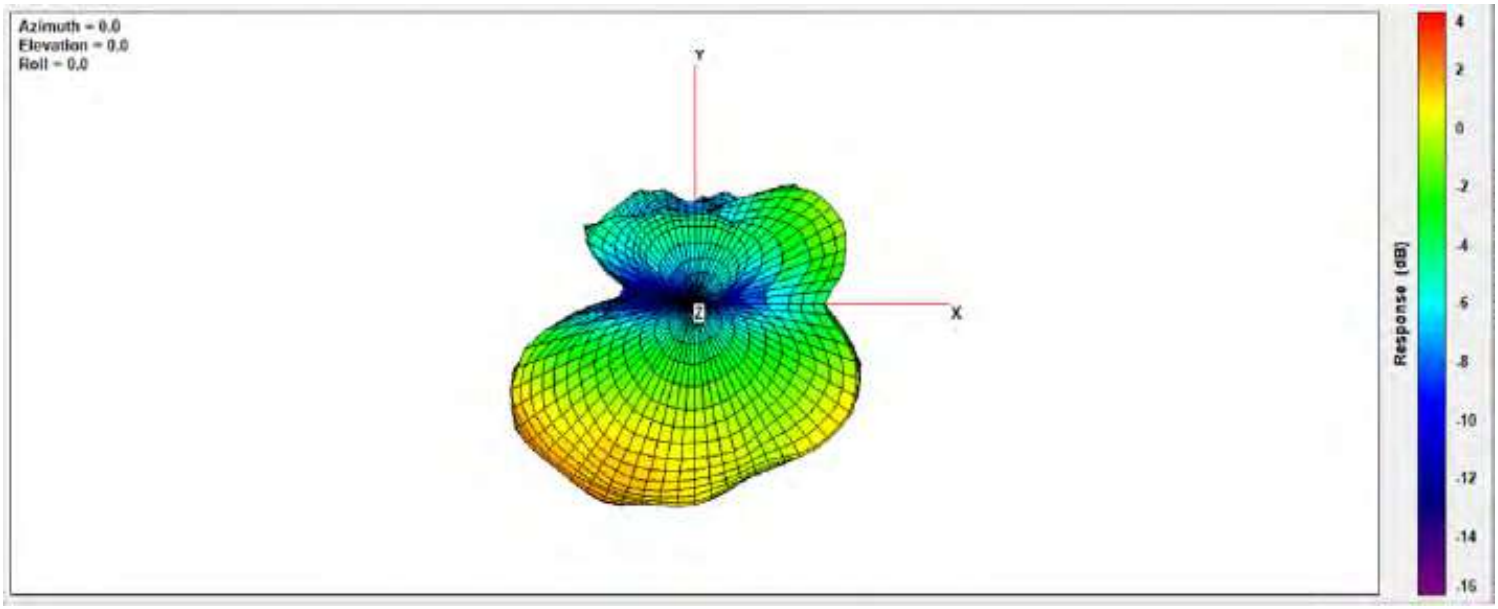
Center Frequency	**1930MHz**
Peak Gain W/ Cable loss (dBi)	2.84

1950MHz



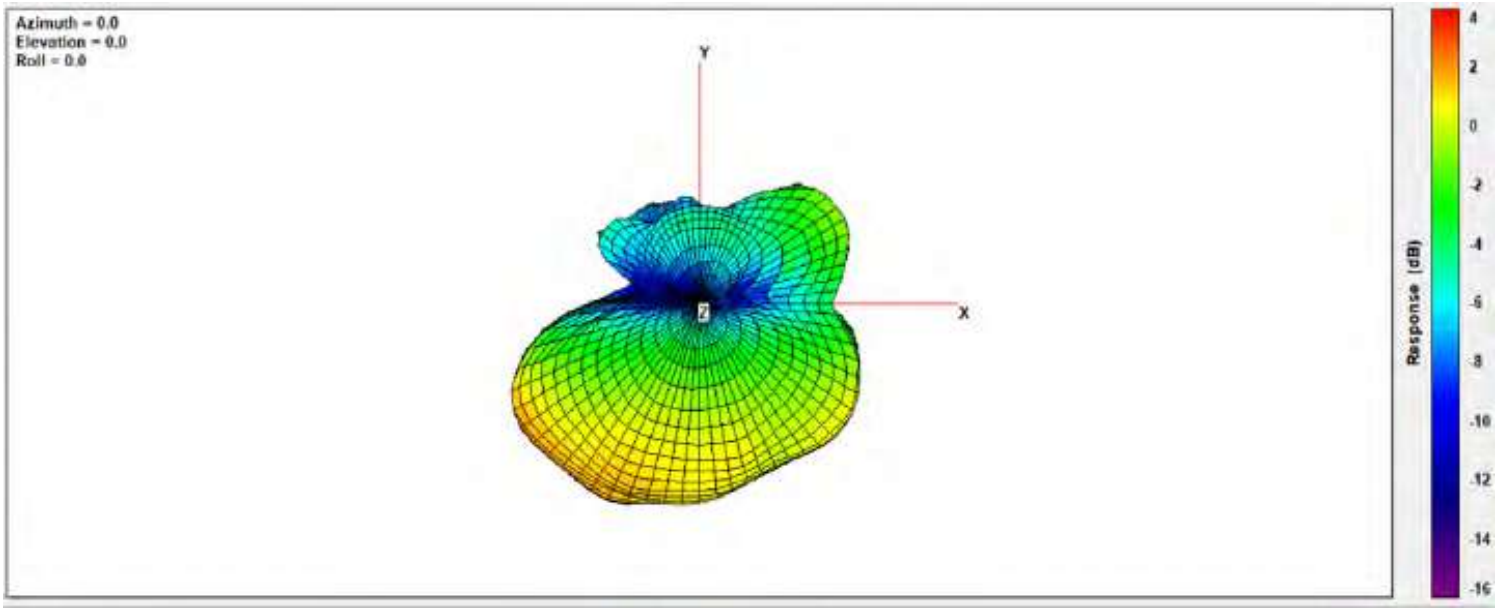
Center Frequency	**1950MHz**
Peak Gain W/ Cable loss (dBi)	2.89

1960MHz



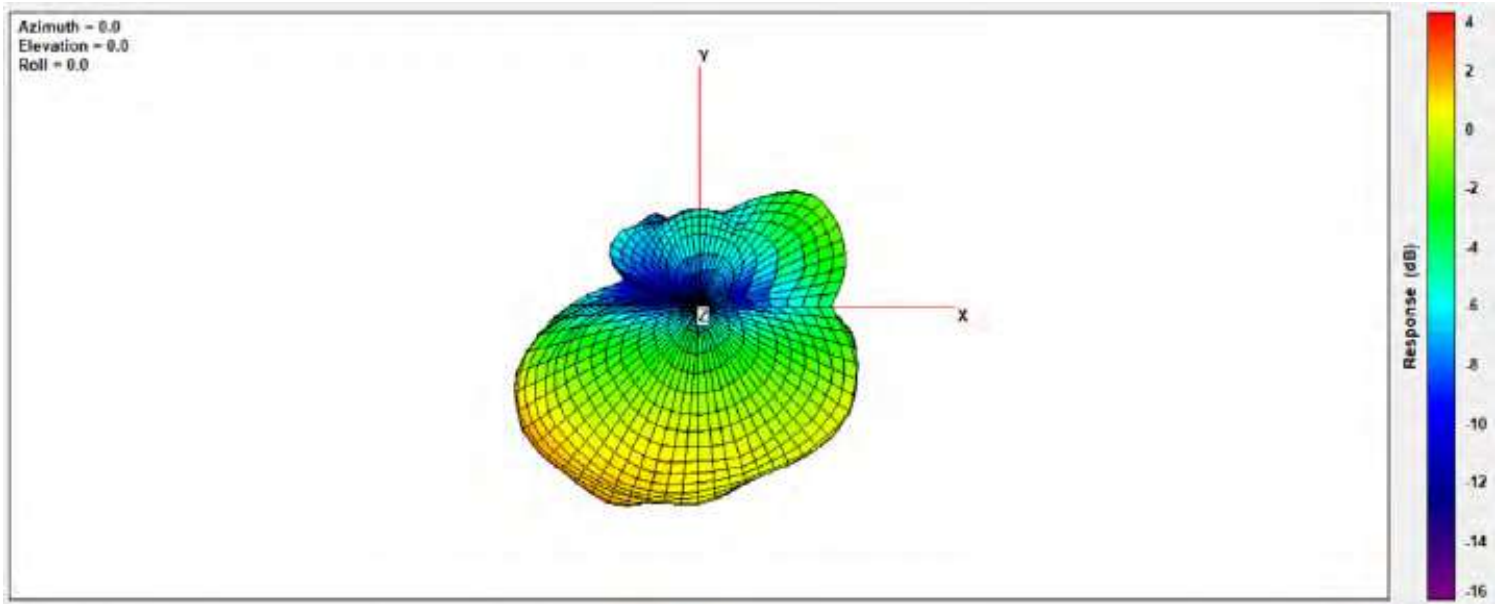
Center Frequency	**1960MHz**
Peak Gain W/ Cable loss (dBi)	2.96

1980MHz



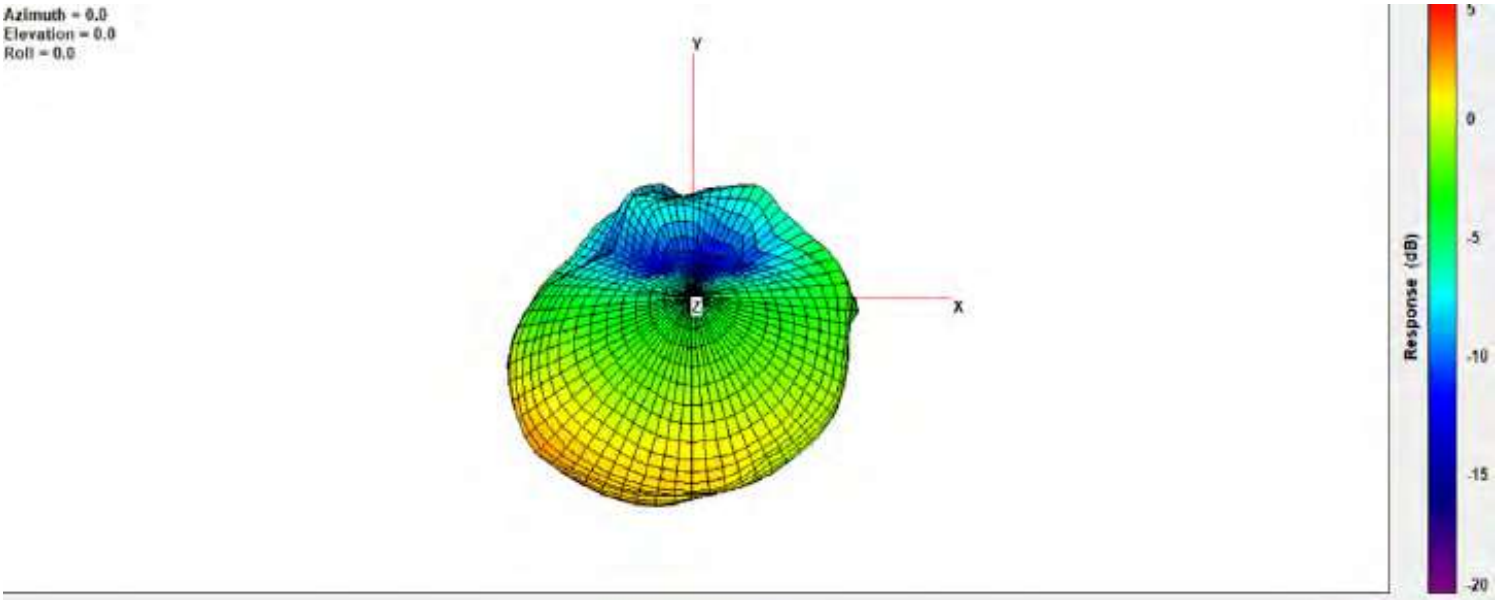
Center Frequency	**1980MHz**
Peak Gain W/ Cable loss (dBi)	2.99

1995MHz



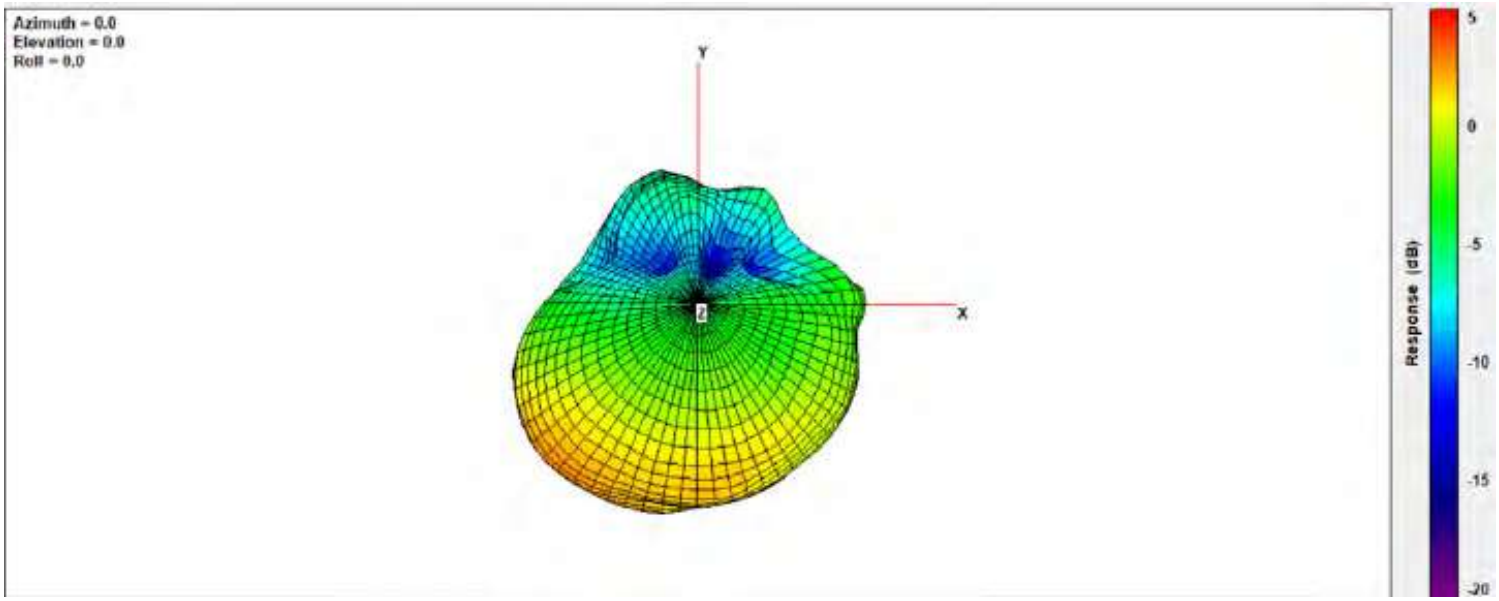
Center Frequency	**1995MHz**
Peak Gain W/ Cable loss (dBi)	2.90

2110MHz



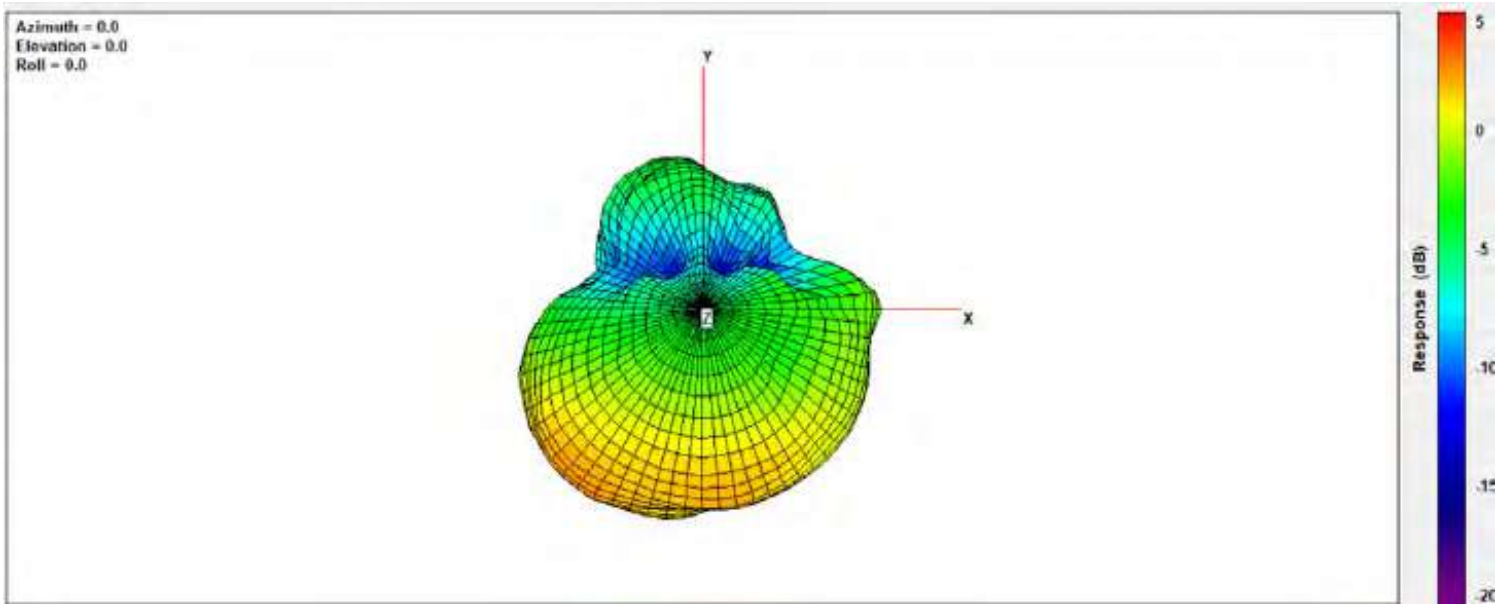
Center Frequency	**2110MHz**
Peak Gain W/ Cable loss (dBi)	3.38

2140MHz



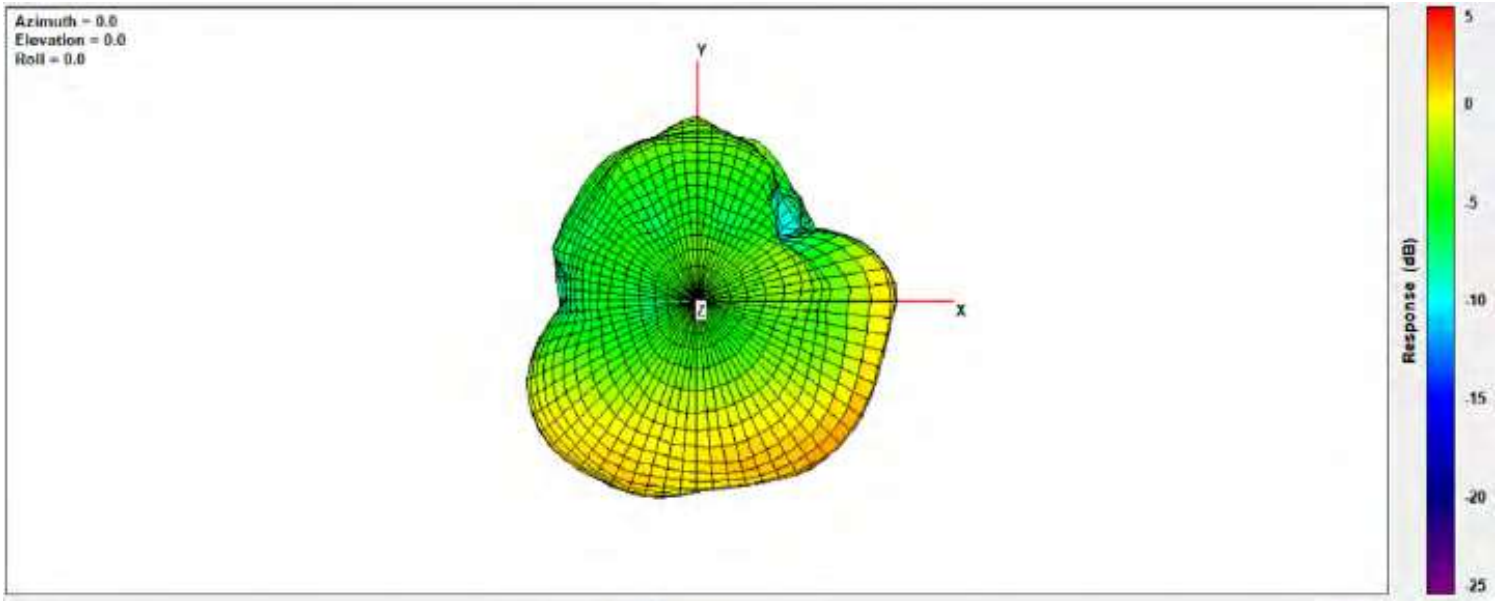
Center Frequency	**2140MHz**
Peak Gain W/ Cable loss (dBi)	4.42

2170MHz



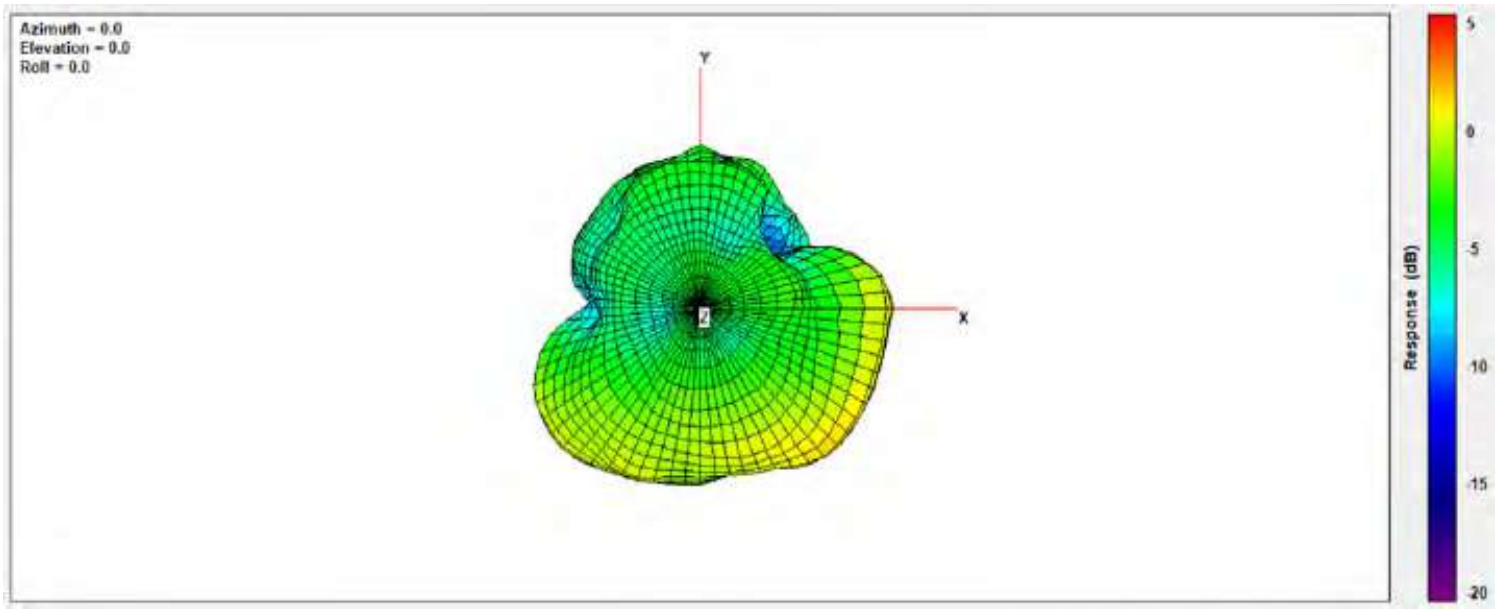
Center Frequency	**2170MHz**
Peak Gain W/ Cable loss (dBi)	4.81

2300MHz



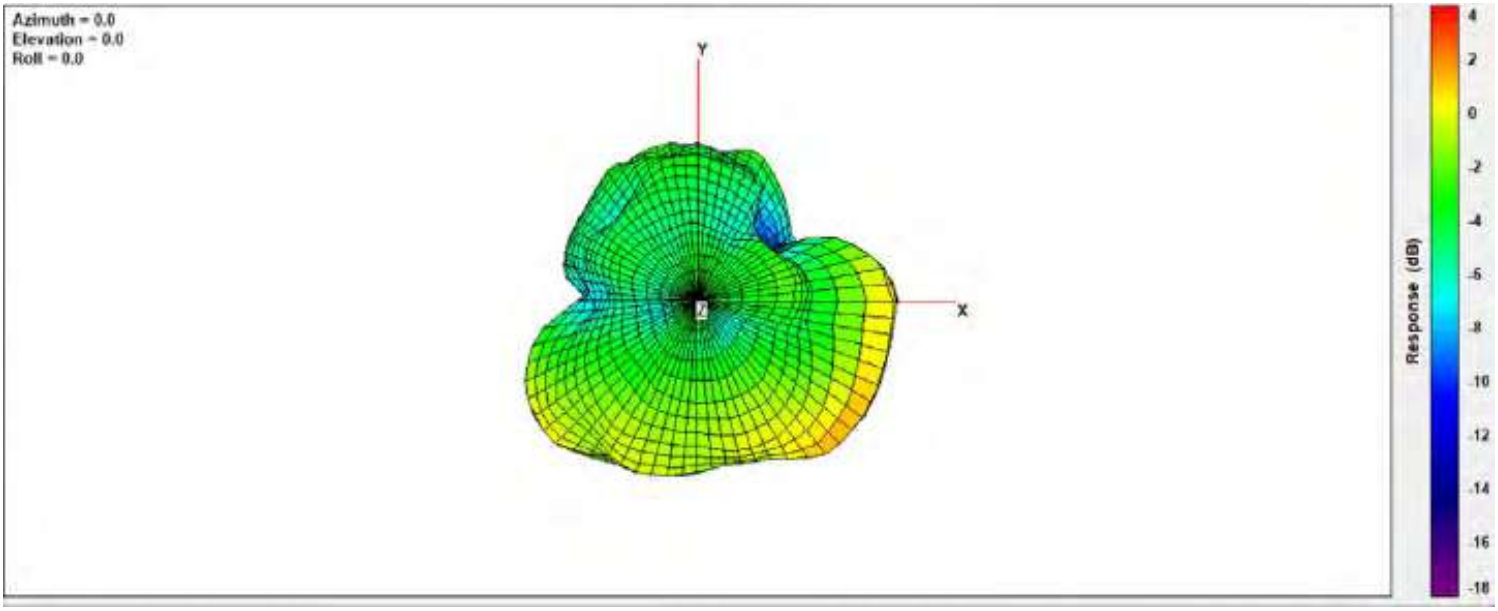
Center Frequency	**2300MHz**
Peak Gain W/ Cable loss (dBi)	4.24

2325MHz



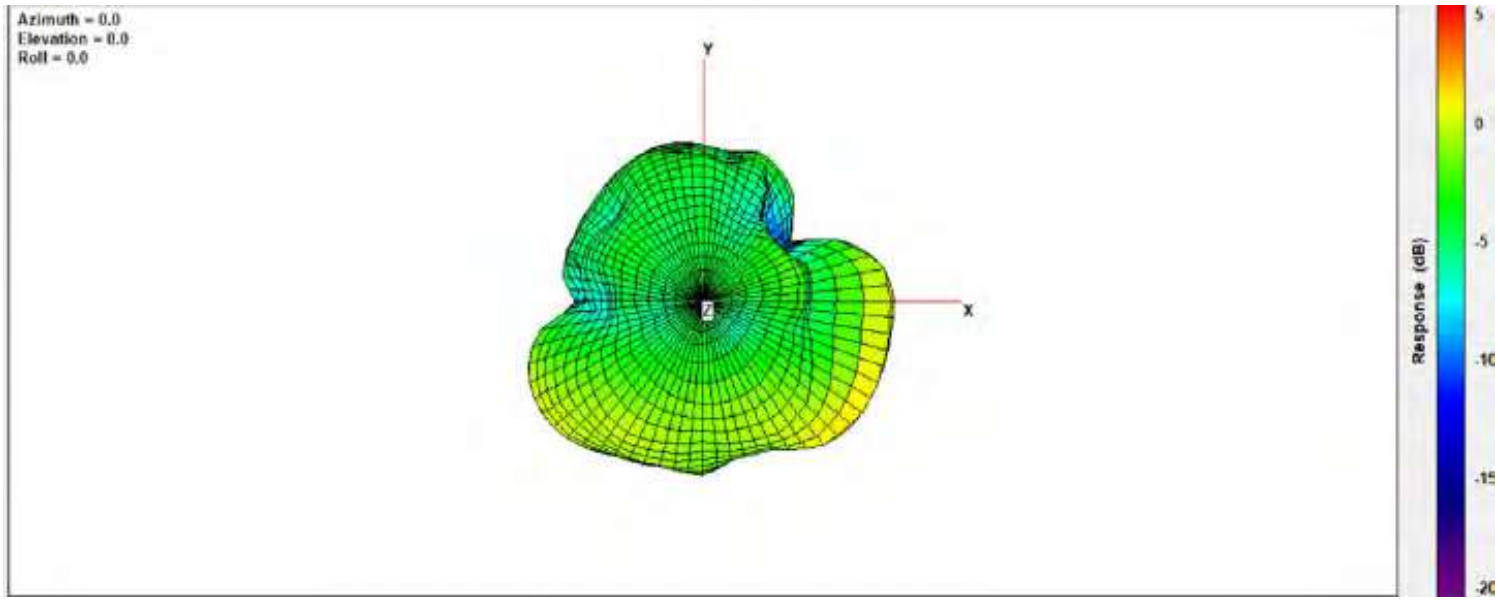
Center Frequency	**2325MHz**
Peak Gain W/ Cable loss (dBi)	3.01

2350MHz



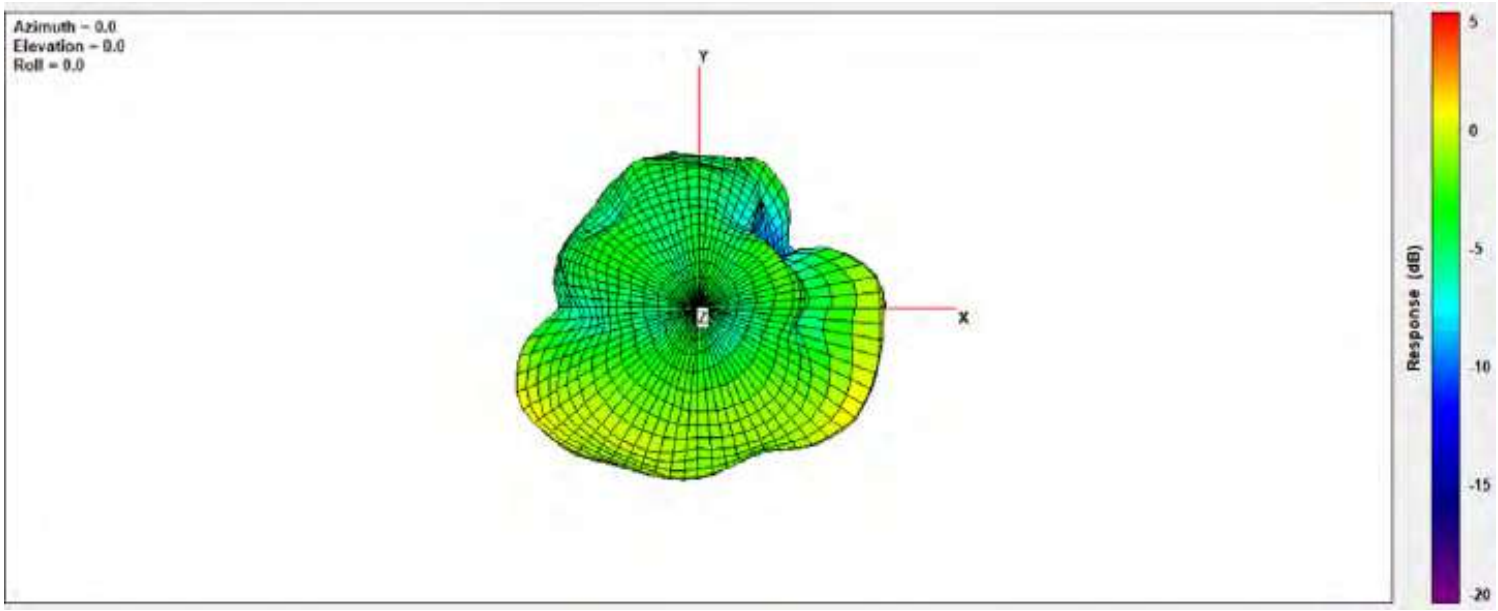
Center Frequency	**2350MHz**
Peak Gain W/ Cable loss (dBi)	2.65

2375MHz



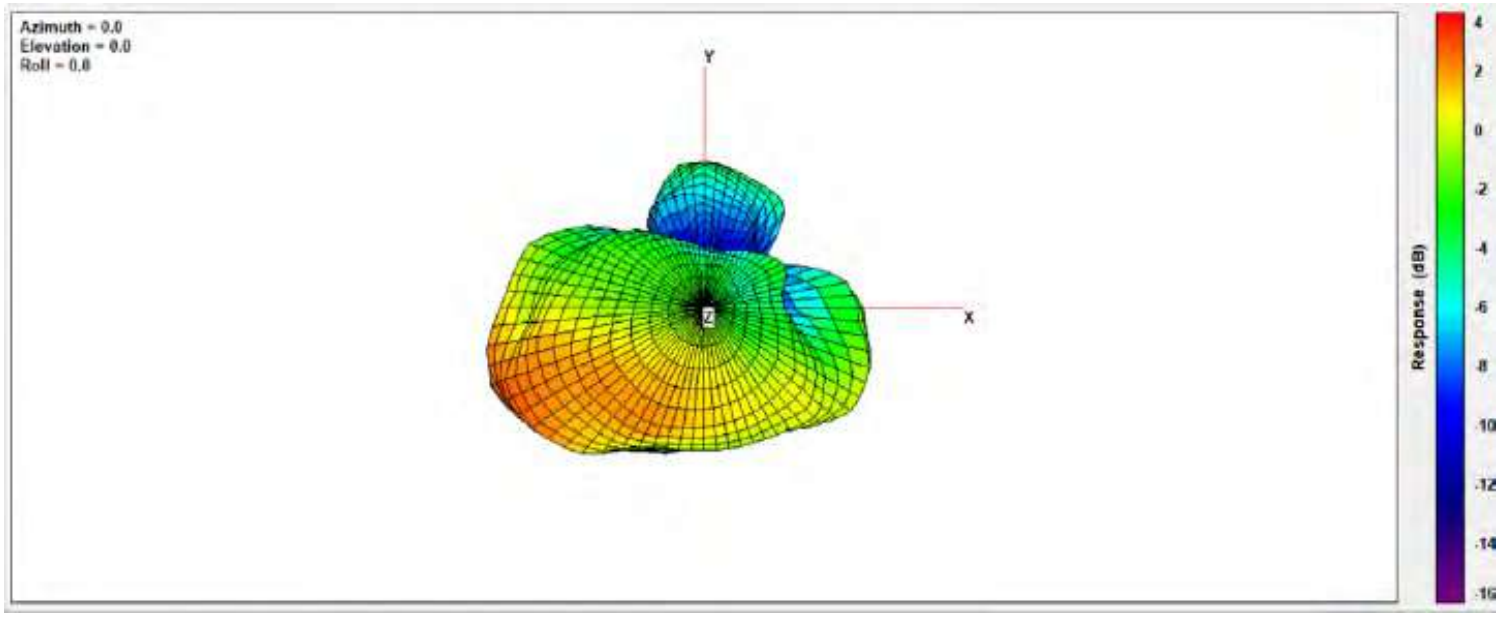
Center Frequency	**2375MHz**
Peak Gain W/ Cable loss (dBi)	2.75

2400MHz



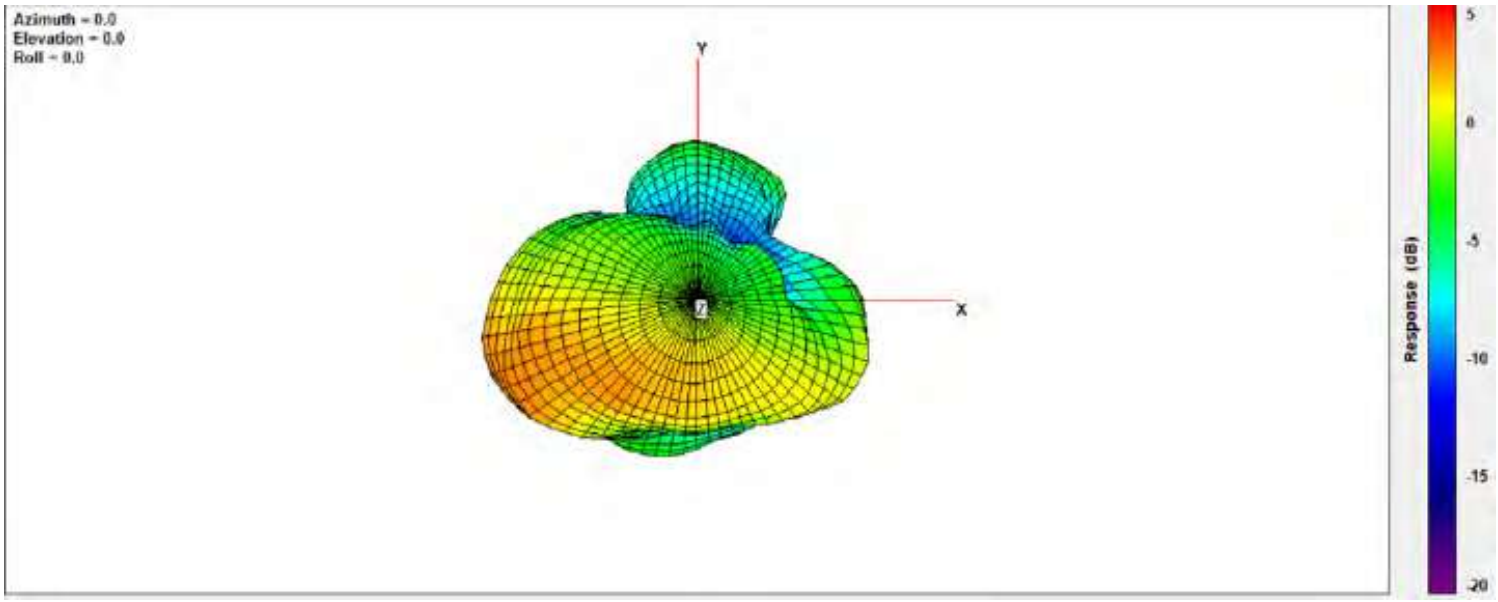
Center Frequency	**2400MHz**
Peak Gain W/ Cable loss (dBi)	0.22

2500MHz



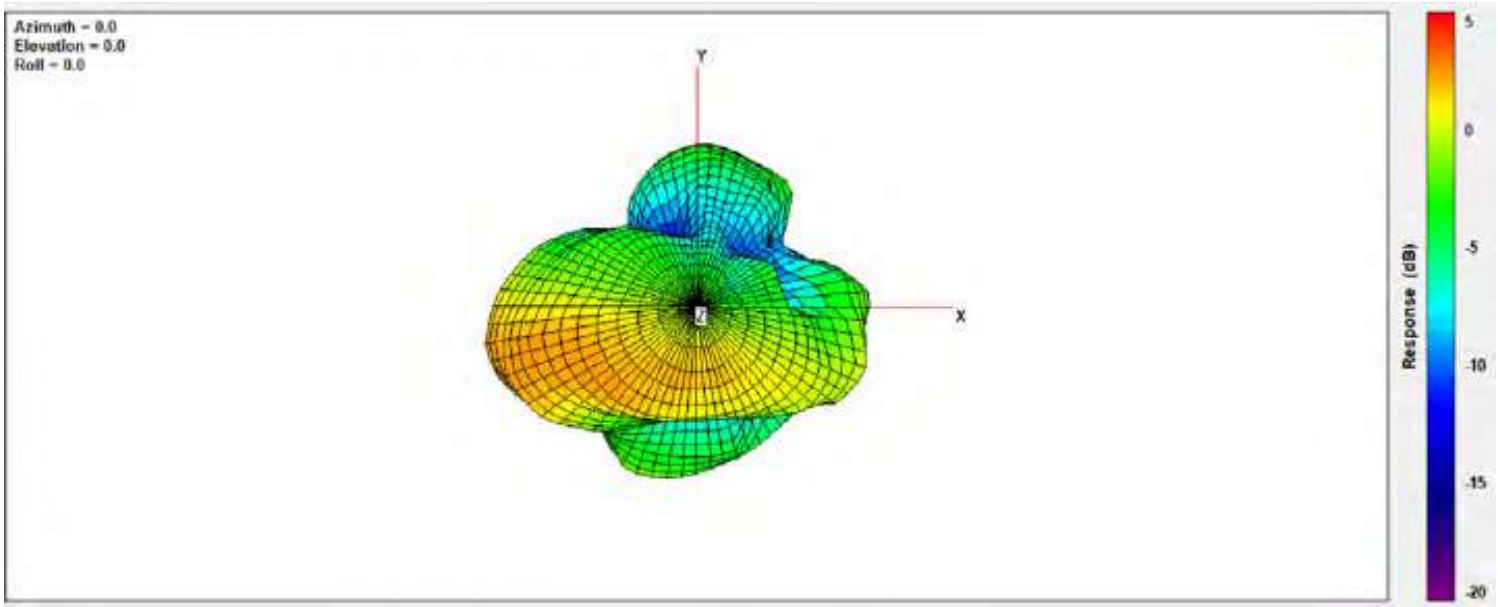
Center Frequency	**2500MHz**
Peak Gain W/ Cable loss (dBi)	2.37

2515MHz



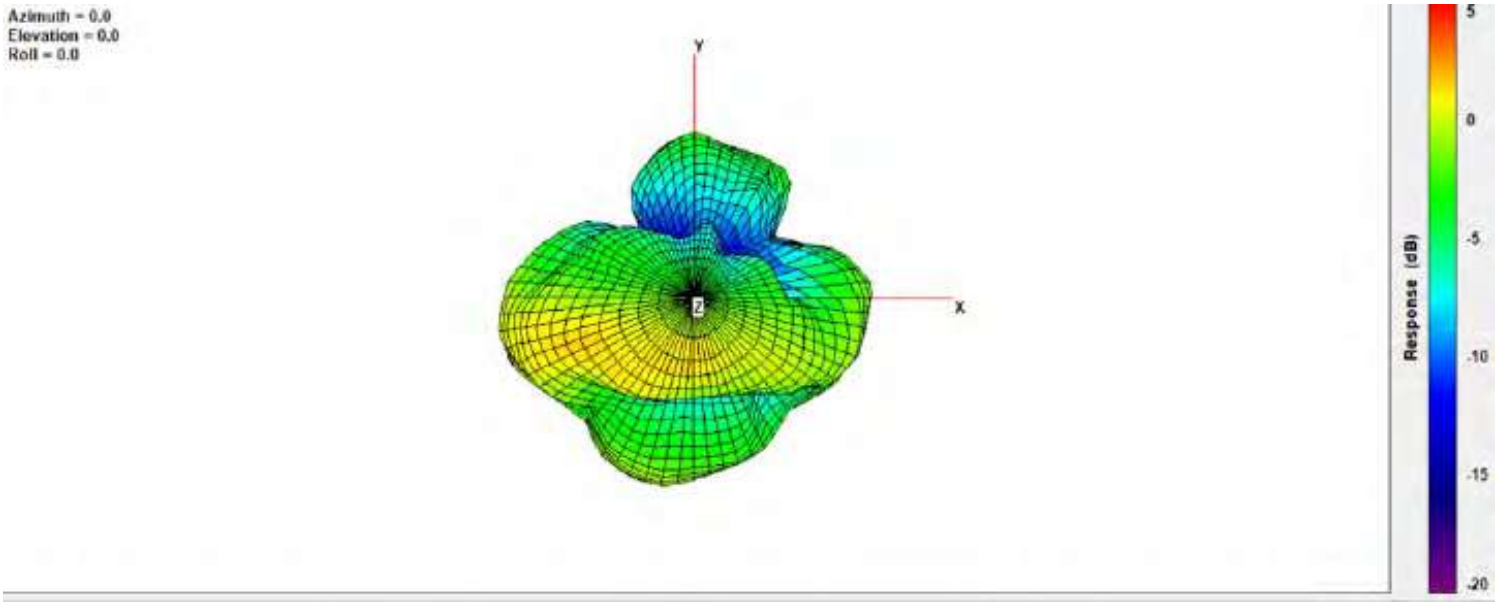
Center Frequency	**2515MHz**
Peak Gain W/ Cable loss (dBi)	3.26

2535MHz



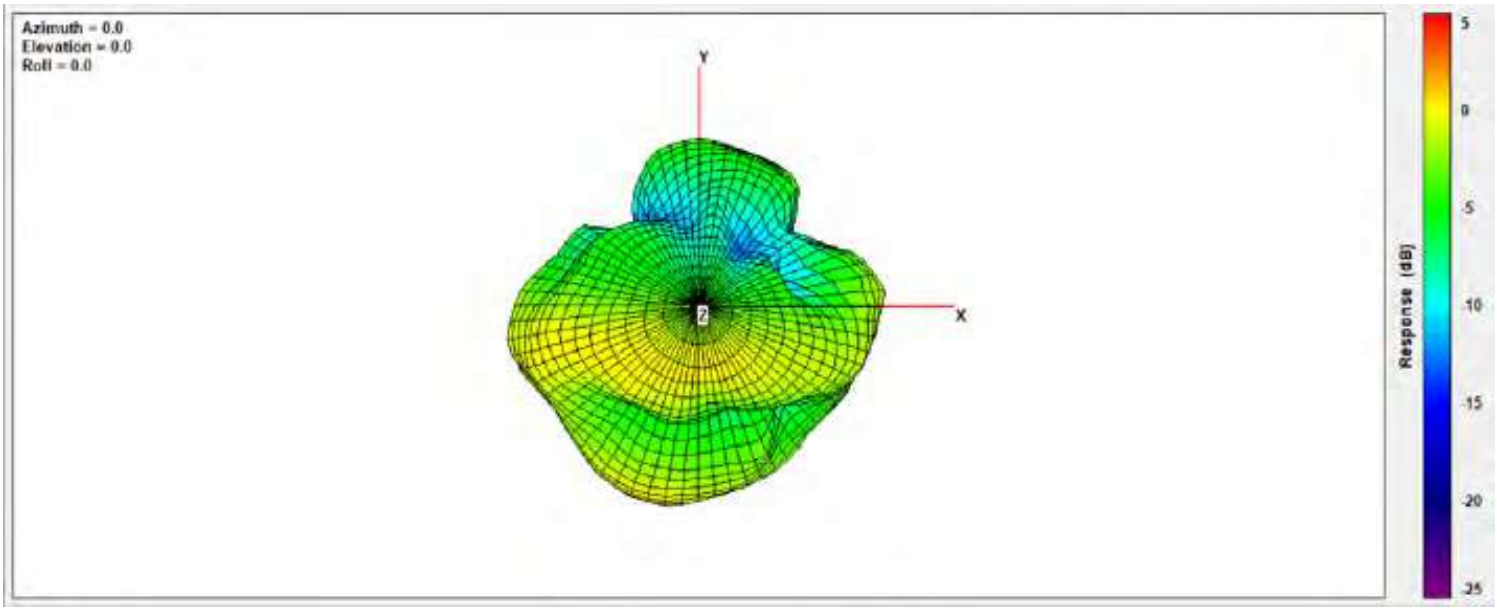
Center Frequency	**2535MHz**
Peak Gain W/ Cable loss (dBi)	1.95

2555MHz



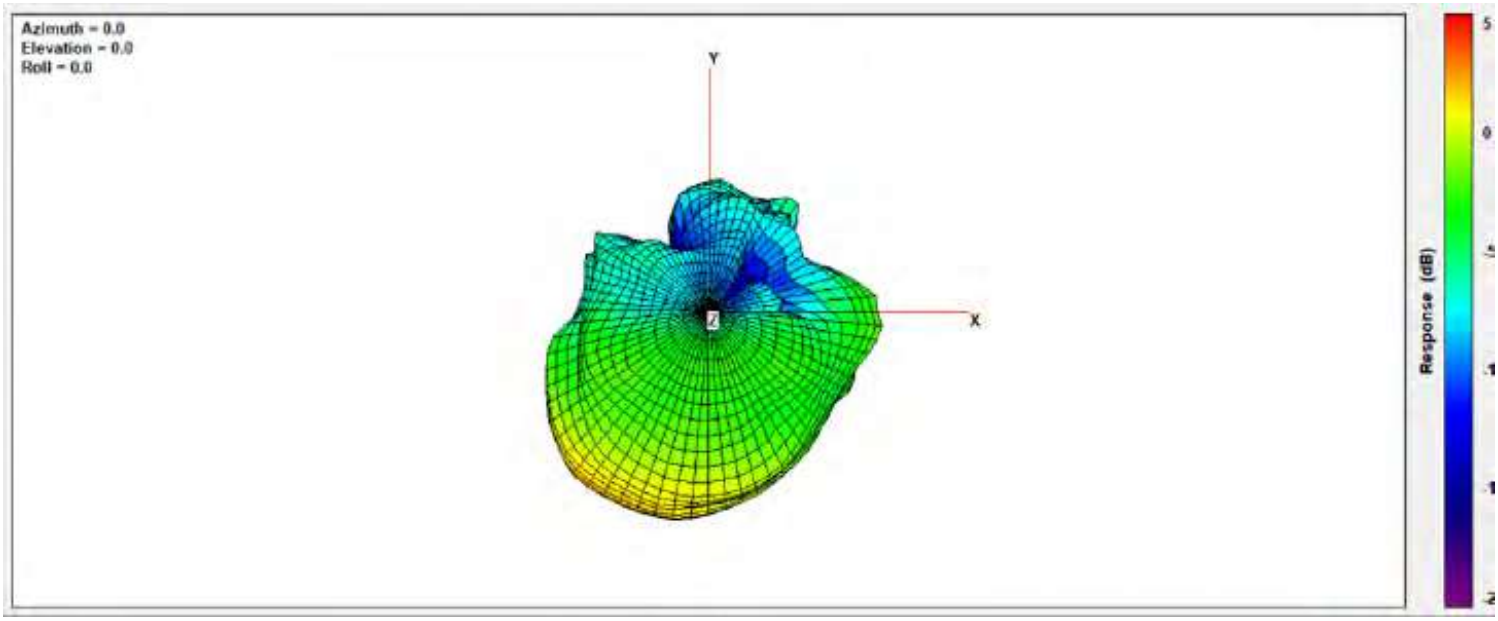
Center Frequency	**2555MHz**
Peak Gain W/ Cable loss (dBi)	1.78

2570MHz



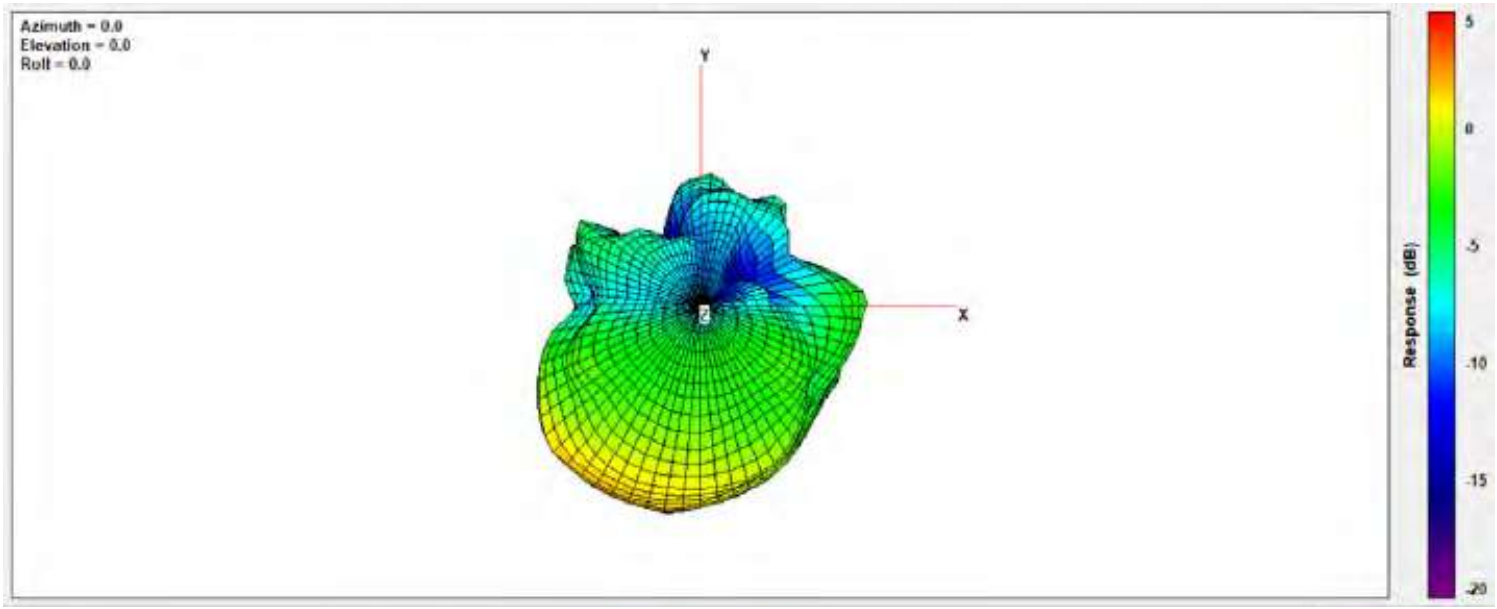
Center Frequency	**2570MHz**
Peak Gain W/ Cable loss (dBi)	1.96

2620MHz



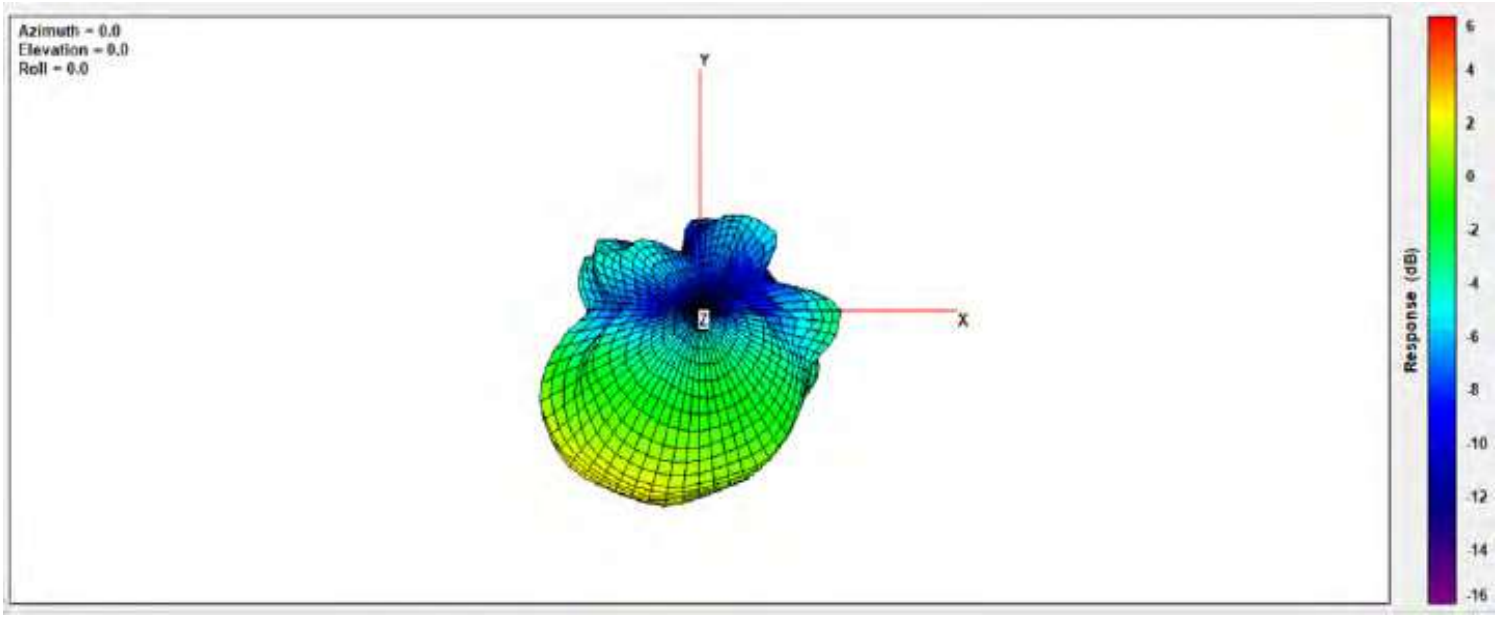
Center Frequency	**2620MHz**
Peak Gain W/ Cable loss (dBi)	3.55

2630MHz



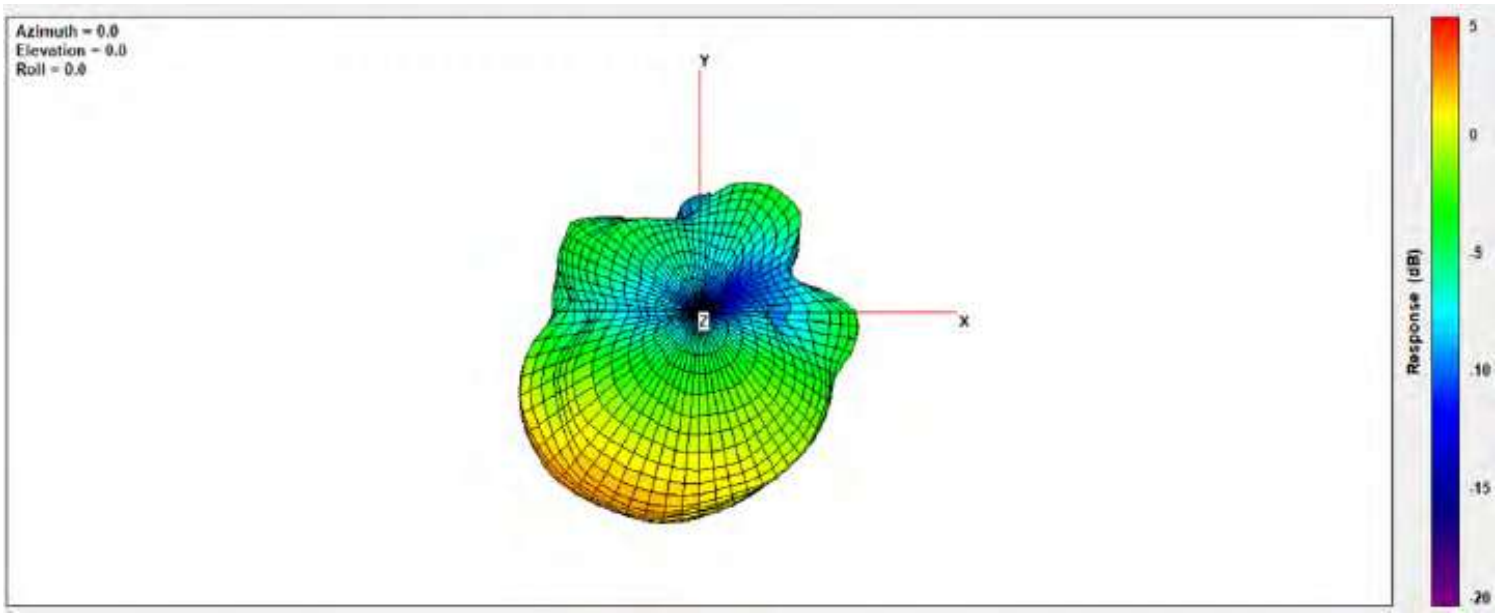
Center Frequency	**2630MHz**
Peak Gain W/ Cable loss (dBi)	3.43

2655MHz



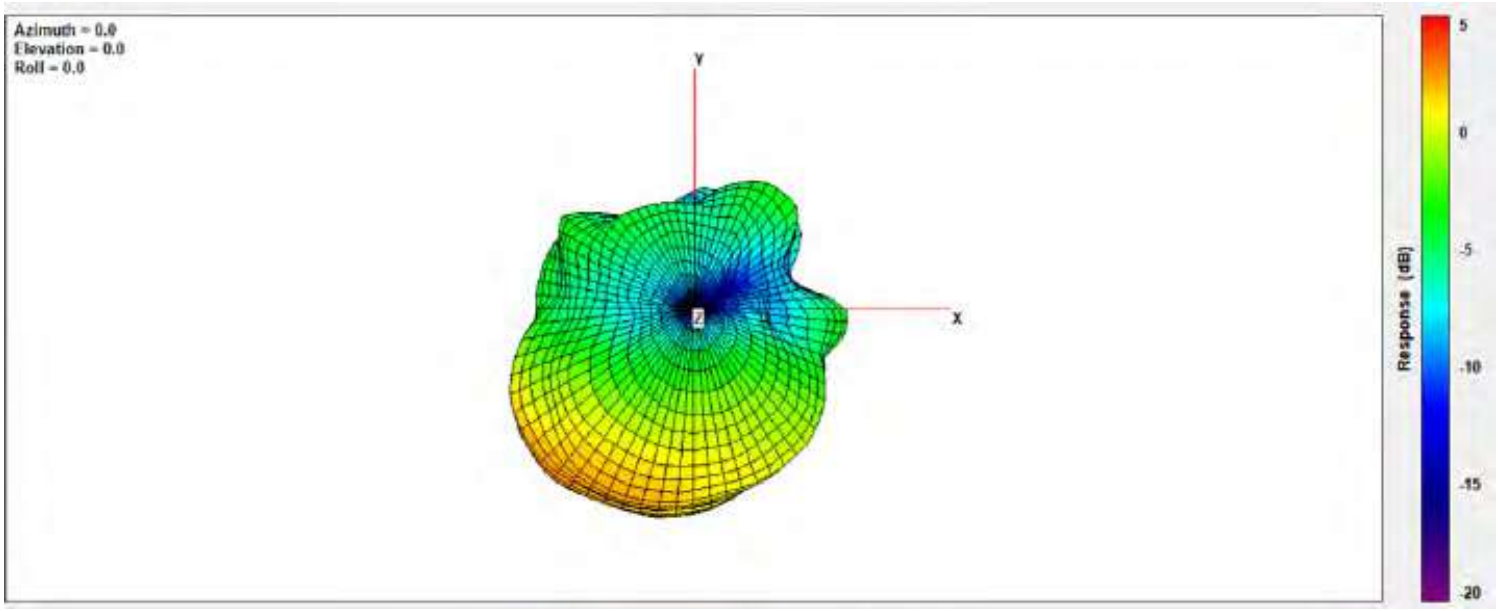
Center Frequency	**2655MHz**
Peak Gain W/ Cable loss (dBi)	4.07

2680MHz



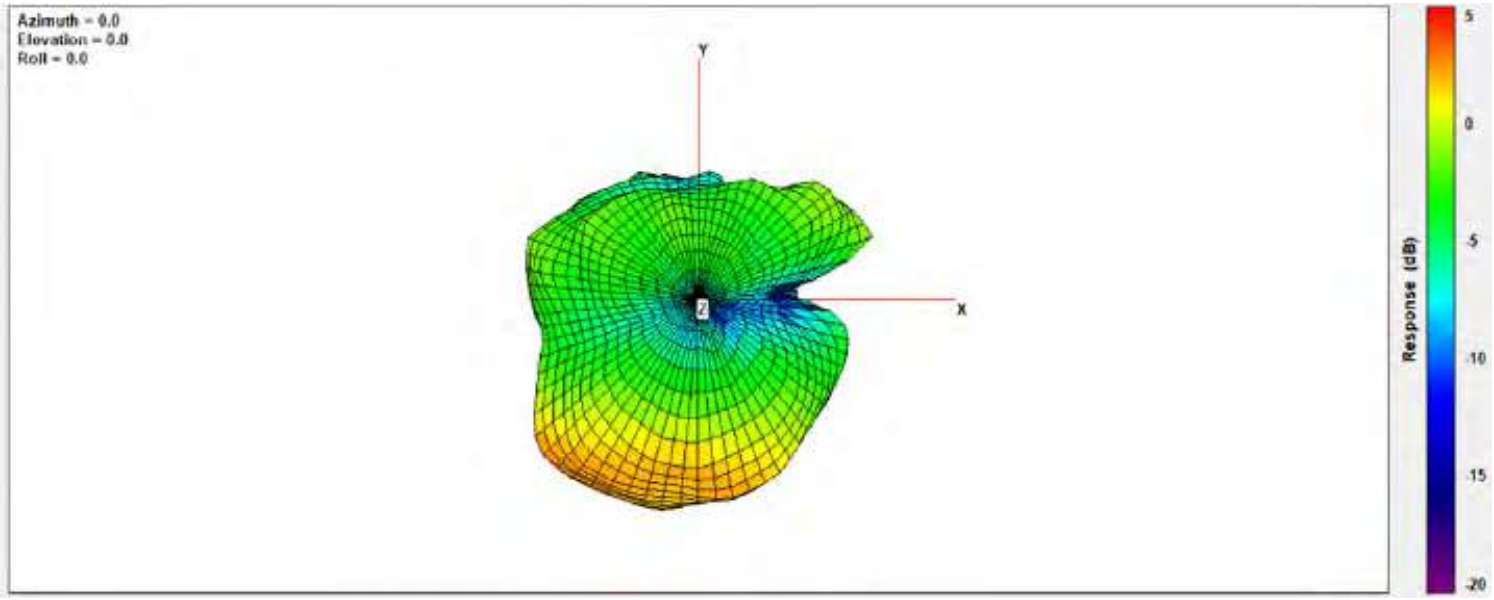
Center Frequency	**2680MHz**
Peak Gain W/ Cable loss (dBi)	4.05

2690MHz



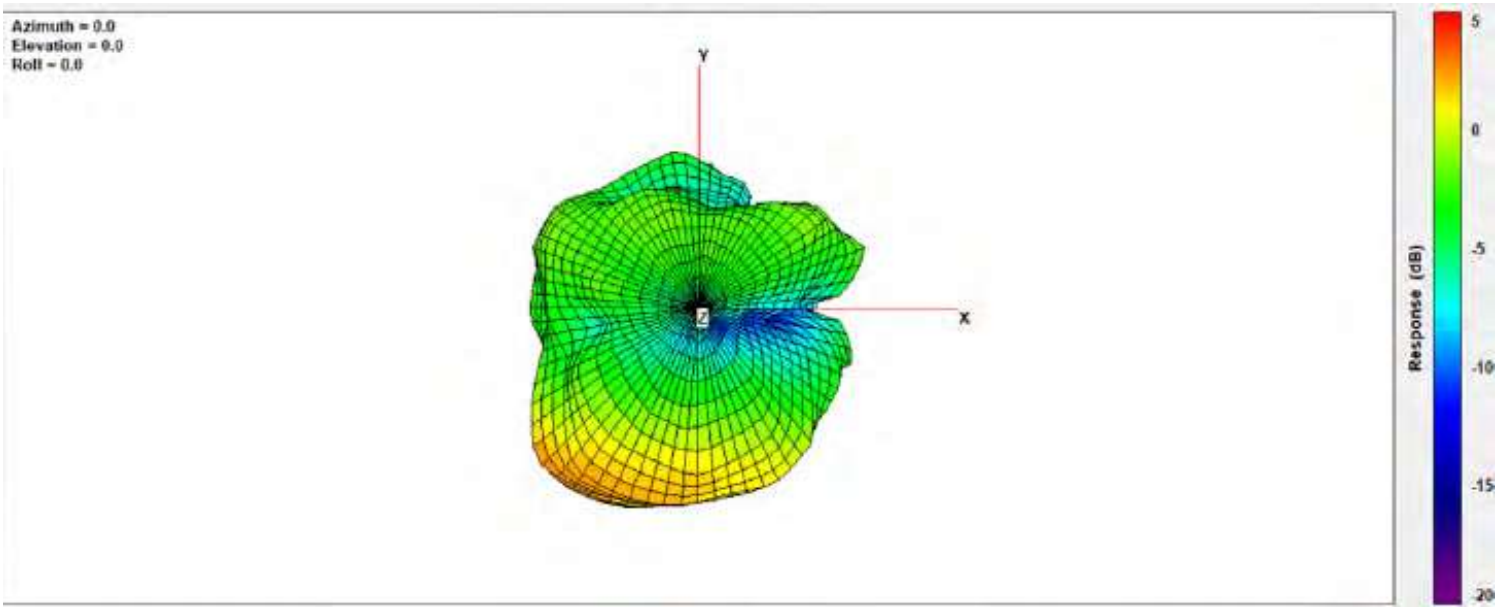
Center Frequency	**2690MHz**
Peak Gain W/ Cable loss (dBi)	4.16

3300MHz



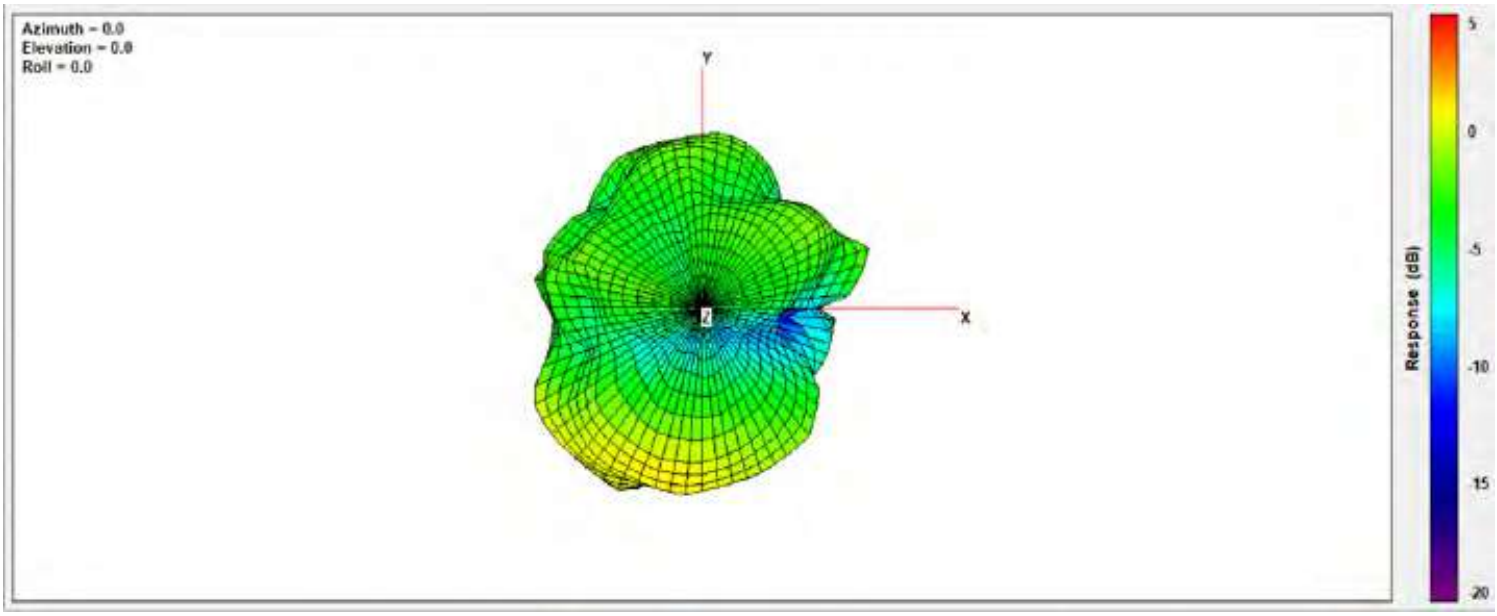
Center Frequency	**3300MHz**
Peak Gain W/ Cable loss (dBi)	3.99

3400MHz



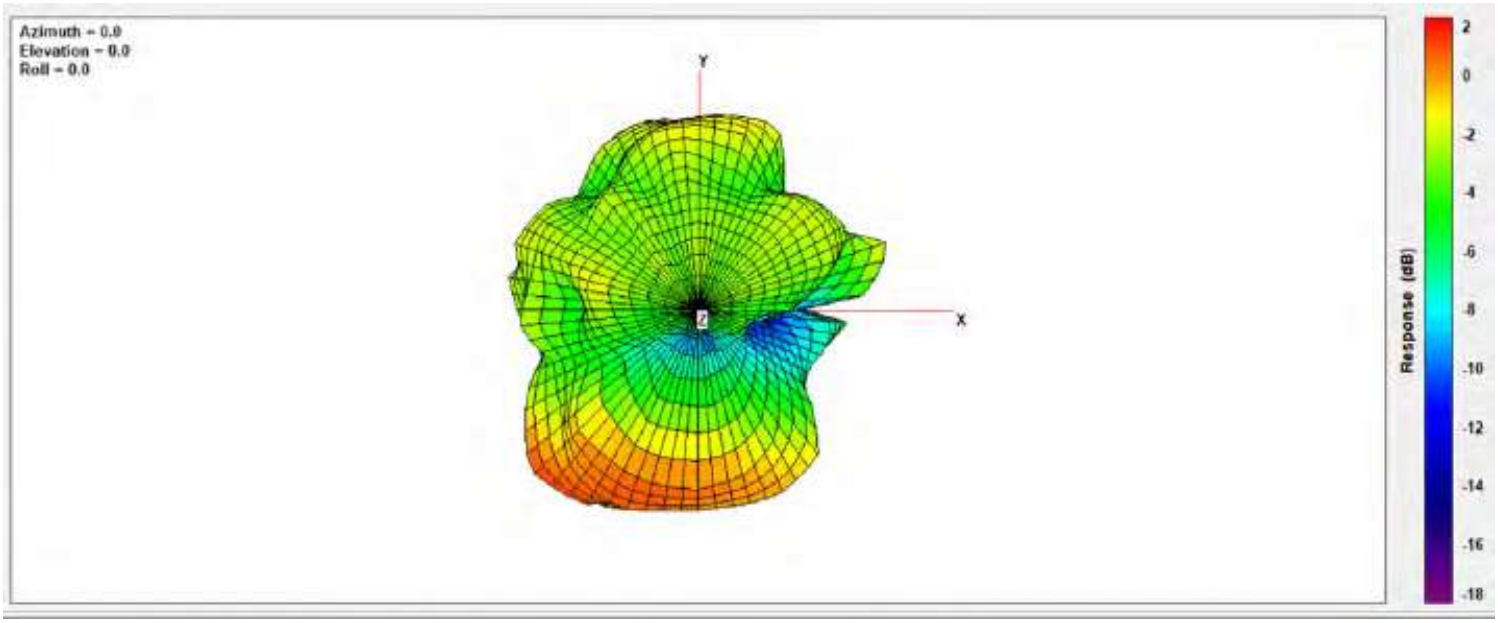
Center Frequency	**3400MHz**
Peak Gain W/ Cable loss (dBi)	0.06

3550MHz



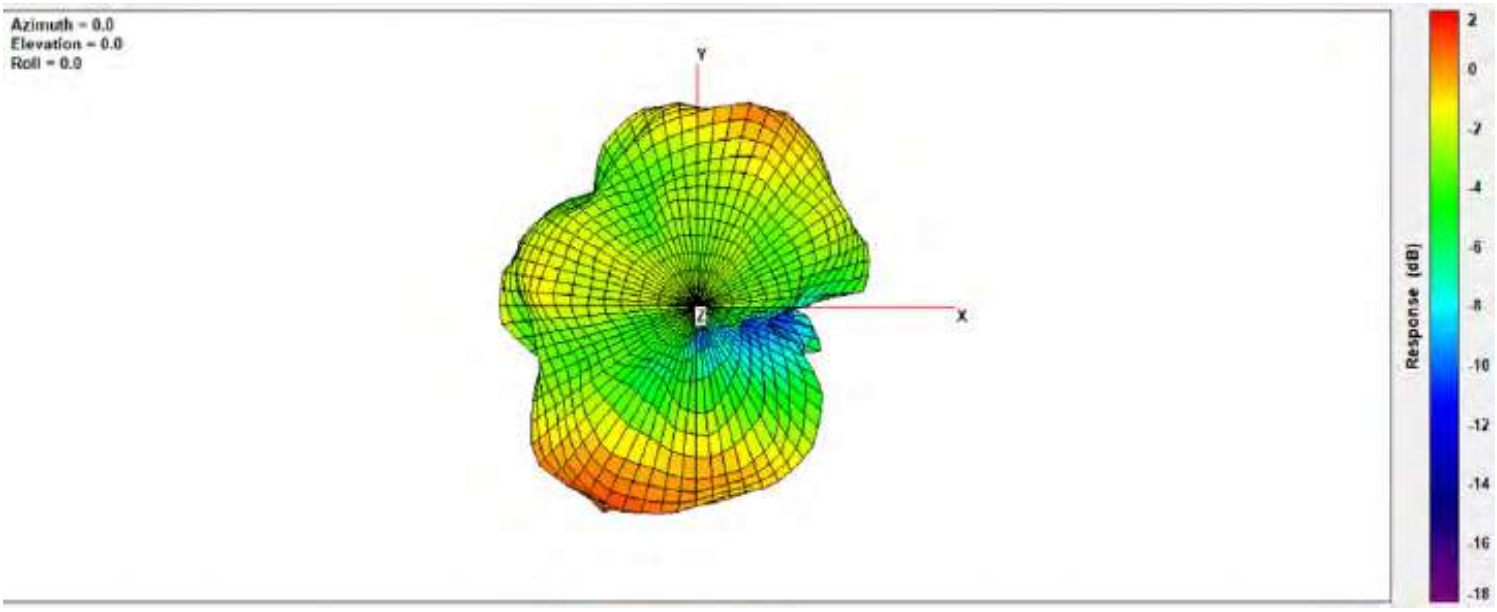
Center Frequency	**3550MHz**
Peak Gain W/ Cable loss (dBi)	0.23

3600MHz



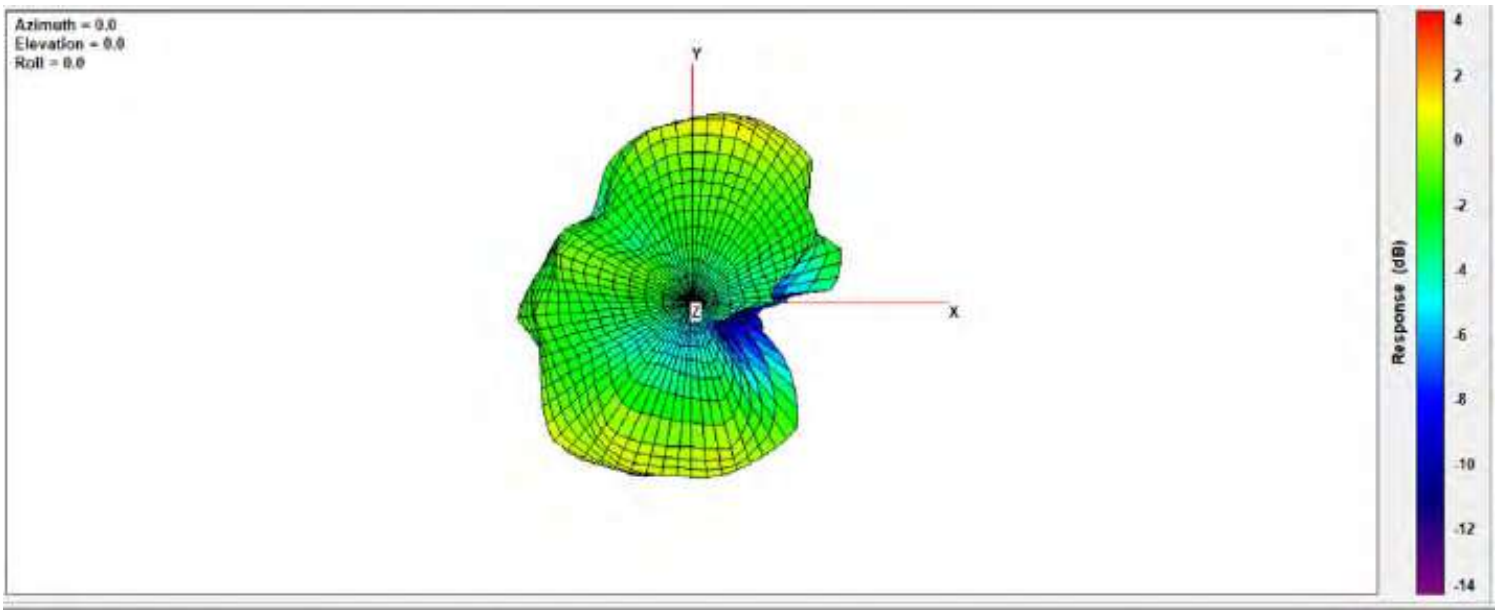
Center Frequency	**3600MHz**
Peak Gain W/ Cable loss (dBi)	0.47

3700MHz



Center Frequency	**3700MHz**
Peak Gain W/ Cable loss (dBi)	0.94

3800MHz



Center Frequency	**3800MHz**
Peak Gain W/ Cable loss (dBi)	2.69