



Product specification

客 户: Shenzhen Fibocom Wireless Co., Ltd.


客户编码: _____

产品描述: 5G external rubber sleeve antenna

制造商编码: GHT-019A (RA version)

产品制造商: Shenzhen Bogesi Communication Technology Co., Ltd.

承认日期: 2021/8/9

Supplier signature	Customer signature
	

Note: 1. After the electronic file or paper file that has been stamped by Bogesi is provided to the demander, the demander shall sign the paper or electronic file back to Bogesi before placing the formal order to Boggs. If there is no formal change or change notification, Bogesi defaults to the requester's approval and acceptance of the product described in the specification.

2. The related intellectual property rights of this product belong to Shenzhen Bogus Communication Technology Co., Ltd. Without our permission, please do not apply for patent rights for this product in other names, and please do not disclose this product and related information to others Or provide third-party reading and use.



深圳市博格斯通信技术有限公司

shenzhen bogesi communication technology co., ltd

Use range:

Applicable to Shenzhen Fibocom Wireless Co., Ltd. 5G antenna solution.

Electrical Specifications:

Electrical Specifications	700-1000MHz;1400-6000MHz	Material	ABS
input resistance	50 Ω	Plastic material	Rubber cap:ABS
Standing wave ratio	≤3.0		Adapter 1: ABS
Polarization mode	Linear polarization		Adapter 2:ABS
Operating temperature	- 40 °C ~ + 65 °C	RF cable specifications	RG-178
Storage temperature	- 40 °C ~ + 80 °C	Connector specifications	SMA Male J
Connector torque test	200 ~ 1000 g.cm	Joint tension test	SMA ≥3 Kg
Gain	700-1000MHz:1.17dBi	Connector torque test	200 ~ 1000 g.cm
	1400-1690MHz:3.21dBi		
	1700-2000MHz:3.10dBi		
	2010-2480MHz:3.36dBi		
	2490-2750/3350-3570MHz:2.56dBi		
	3580-3850MHz:2.99dBi		
	5000-5490MHz:4.49dBi		
	5500-6000MHz:3.32dBi		

Test conditions and methods:

Test conditions and instruments	Test Methods	Test Results
Microwave anechoic chamber far-field test system Aglient E5071B network analyzer	<ol style="list-style-type: none"> 1. Assemble the antenna to be tested on the prototype and make a passive test fixture 2. Put the passive fixture on the test fixture in the dark room and establish a connection with the network analyzer 3. Use test software to test antenna passive data 	See test data



Test data:

BGS-036(700-1000)_30du	Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
	700	4.06	-4.12	38.75	-0.06
710	4.27	-4.09	39.04	0.19	
720	4.40	-3.87	41.02	0.53	
730	4.42	-3.71	42.52	0.71	
740	4.49	-3.75	42.14	0.74	
750	4.52	-3.91	40.62	0.60	
760	4.60	-3.93	40.44	0.66	
770	4.65	-3.90	40.76	0.76	
780	4.57	-3.65	43.11	0.92	
790	4.29	-3.34	46.32	0.94	
800	3.85	-3.12	48.71	0.72	
810	3.38	-2.97	50.49	0.41	
820	2.98	-2.82	52.19	1.42	
830	2.64	-2.65	54.28	1.55	
840	2.33	-2.35	58.15	1.61	
850	2.03	-1.91	64.47	1.66	
860	1.72	-1.46	71.43	1.61	
870	1.85	-1.13	77.15	1.55	
880	2.20	-1.02	79.03	1.17	
890	2.30	-1.21	75.66	1.91	
900	2.24	-1.58	69.49	0.66	
910	2.08	-1.83	65.60	0.25	
920	1.94	-2.10	61.70	-0.16	
930	2.01	-2.33	58.51	-0.32	
940	2.29	-2.63	54.60	-0.34	
950	2.63	-3.17	48.21	-0.54	
960	2.84	-4.02	39.59	-1.19	
970	2.86	-5.11	30.86	-2.25	
980	2.83	-6.14	24.34	-3.31	
990	2.96	-7.09	19.55	-4.13	
1000	3.30	-7.55	17.57	-4.26	

BGS-036(1400-1690)_30du	Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
	1400	3.67	-0.82	82.77	1.85
1410	3.49	-0.88	81.60	1.61	
1420	3.34	-0.92	80.85	1.42	
1430	3.35	-0.76	83.95	1.59	
1440	3.51	-0.57	87.70	1.94	
1450	3.71	-0.49	89.24	1.22	
1460	3.88	-0.51	88.83	1.36	
1470	3.90	-0.74	84.33	1.16	
1480	3.81	-0.89	81.41	1.92	
1490	3.68	-0.98	79.86	1.70	
1500	3.63	-0.85	82.17	1.78	
1510	3.70	-0.76	84.04	2.94	
1520	3.84	-0.73	84.47	3.10	
1530	3.92	-0.71	84.83	3.21	
1540	3.91	-1.01	79.19	2.90	
1550	3.87	-1.21	75.68	2.66	
1560	3.81	-1.33	73.68	2.48	
1570	3.80	-1.28	74.45	2.52	
1580	3.87	-1.10	77.67	2.77	
1590	3.99	-0.96	80.24	3.04	
1600	4.09	-0.99	79.62	3.10	
1610	4.13	-1.14	76.92	2.99	
1620	4.13	-1.32	73.76	2.81	
1630	4.12	-1.53	70.25	2.59	
1640	4.16	-1.56	69.82	2.60	
1650	4.31	-1.43	71.93	2.88	
1660	4.46	-1.27	74.63	2.19	
1670	4.60	-1.10	77.58	2.50	
1680	4.72	-1.09	77.74	2.62	
1690	4.79	-1.16	76.54	2.63	

Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
1700	4.84	-0.99	79.71	1.81
1710	4.87	-1.13	77.05	1.88
1720	4.89	-1.03	78.81	1.86
1730	4.88	-1.00	79.47	1.89
1740	4.86	-0.92	80.92	1.94
1750	4.80	-0.98	79.75	1.82
1760	4.70	-1.12	77.25	1.58
1770	4.64	-1.35	73.33	1.29
1780	4.59	-1.48	71.12	1.11
1790	4.58	-1.48	71.06	2.10
1800	4.59	-1.51	70.55	3.08
1810	4.60	-1.50	70.86	3.10
1820	4.60	-1.61	68.98	2.99
1830	4.59	-1.78	66.43	2.81
1840	4.56	-1.92	64.24	2.64
1850	4.57	-2.07	62.06	1.00
1860	4.59	-2.09	61.82	1.00
1870	4.63	-2.03	62.66	1.00
1880	4.66	-1.89	64.75	1.77
1890	4.64	-1.79	66.19	1.85
1900	4.58	-1.84	65.45	1.74
1910	4.50	-1.92	64.22	1.80
1920	4.41	-2.13	61.20	1.33
1930	4.31	-2.25	59.50	1.44
1940	4.23	-2.36	58.01	1.42
1950	4.18	-2.23	59.88	1.33
1960	4.10	-2.27	59.32	1.33
1970	3.97	-2.35	58.17	1.42
1980	3.89	-2.49	56.35	1.40
1990	3.85	-2.70	53.71	1.15
2000	3.89	-2.82	52.24	1.07

BGS-036(1700-2000)_30du

Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
2010	3.96	-2.82	52.22	1.14
2020	4.09	-2.69	53.82	1.40
2030	4.18	-2.53	65.84	1.65
2040	4.19	-2.45	56.95	1.75
2050	4.17	-2.46	56.74	1.71
2060	4.14	-2.49	56.37	1.65
2070	4.16	-2.60	54.96	1.56
2080	4.21	-2.67	54.13	1.54
2090	4.29	-2.74	53.26	1.55
2100	4.35	-2.68	53.90	1.67
2110	4.36	-2.83	52.08	1.53
2120	4.30	-3.00	50.09	1.30
2130	4.23	-3.16	48.29	1.07
2140	4.20	-3.32	46.54	0.88
2150	4.25	-3.33	46.42	0.92
2160	4.36	-3.30	46.80	1.07
2170	4.47	-3.16	48.33	1.31
2180	4.52	-2.98	50.40	1.54
2190	4.50	-2.84	52.00	1.66
2200	4.46	-2.70	53.68	1.76
2210	4.43	-2.66	54.21	1.77
2220	4.50	-2.51	56.17	2.00
2230	4.60	-2.22	60.04	2.39
2240	4.69	-1.81	65.86	2.88
2250	4.66	-1.39	72.60	3.27
2260	4.53	-1.17	76.43	3.36
2270	4.34	-1.06	78.36	3.28
2280	4.19	-1.18	76.19	3.01
2290	4.14	-1.23	75.29	2.91
2300	4.13	-1.38	72.78	2.75
2310	4.15	-1.45	71.64	2.70
2320	4.12	-1.47	71.23	2.65
2330	3.96	-1.55	69.94	2.40
2340	3.74	-1.59	69.41	2.15
2350	3.57	-1.76	66.70	1.81
2360	3.47	-1.87	65.07	1.60
2370	3.48	-1.89	64.71	1.59
2380	3.51	-1.89	64.65	1.62
2390	3.55	-1.84	65.49	1.71
2400	3.50	-1.87	65.04	1.63
2410	3.37	-1.87	65.08	1.51
2420	3.30	-1.96	63.67	1.34
2430	3.26	-2.10	61.64	1.16
2440	3.28	-2.08	61.89	1.20
2450	3.39	-2.03	62.62	1.35
2460	3.48	-1.86	65.23	1.62
2470	3.49	-1.66	68.19	1.83
2480	3.47	-1.43	71.97	1.04

BGS-036(2010-2480)_30du

Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
2490	3.36	-1.27	74.58	1.08
2500	3.34	-1.24	75.22	1.10
2510	3.40	-1.25	74.91	1.14
2520	3.42	-1.30	74.20	1.13
2530	3.44	-1.30	74.18	1.52
2540	3.47	-1.20	75.86	1.27
2550	3.56	-1.16	76.53	0.98
2560	3.61	-1.17	76.46	1.07
2570	3.64	-1.29	74.23	1.35
2580	3.64	-1.36	73.06	1.28
2590	3.52	-1.48	71.18	1.04
2600	3.40	-1.56	69.79	1.83
2610	3.34	-1.69	67.81	1.66
2620	3.31	-1.79	66.17	1.52
2630	3.38	-1.84	65.48	1.54
2640	3.43	-1.98	63.45	1.46
2650	3.42	-2.09	61.79	1.33
2660	3.37	-2.13	61.27	1.24
2670	3.30	-2.23	59.78	1.06
2680	3.25	-2.22	60.02	1.04
2690	3.27	-2.18	60.47	1.09
2700	3.30	-2.17	60.62	1.12
2710	3.36	-2.07	62.04	1.29
2720	3.37	-2.07	62.06	1.30
2730	3.34	-2.12	61.36	1.22
2740	3.30	-2.19	60.42	1.12
2750	3.45	-2.13	61.18	1.32
3350	3.25	-1.77	66.50	1.48
3360	3.27	-1.70	67.67	1.57
3370	3.26	-1.68	67.85	1.58
3380	3.19	-1.72	67.31	1.47
3390	3.11	-1.65	68.38	1.46
3400	3.02	-1.61	68.98	1.41
3410	2.98	-1.57	69.71	1.41
3420	2.90	-1.51	70.65	1.39
3430	2.80	-1.53	70.38	1.27
3440	2.88	-1.53	70.26	1.35
3450	3.03	-1.50	70.84	1.54
3460	3.26	-1.45	71.60	1.81
3470	3.59	-1.39	72.61	2.25
3480	3.91	-1.35	73.33	2.56
3490	4.12	-1.37	73.01	1.75
3500	4.32	-1.40	72.46	1.93
3510	4.44	-1.51	70.69	1.94
3520	4.53	-1.64	68.60	1.89
3530	4.71	-1.63	68.66	1.07
3540	4.87	-1.63	68.76	1.24
3550	5.01	-1.50	70.78	1.51
3560	5.15	-1.34	73.44	1.81
3570	5.20	-1.22	75.57	1.99

BGS-036(2490-2750,3350-3570)_30du

Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
3580	5.21	-1.17	76.38	2.04
3590	5.08	-1.24	75.16	1.84
3600	5.02	-1.28	74.56	1.74
3610	4.92	-1.36	73.07	1.56
3620	4.90	-1.40	72.47	1.50
3630	4.85	-1.45	71.69	1.41
3640	4.86	-1.51	70.57	1.35
3650	4.79	-1.60	69.23	1.19
3660	4.76	-1.64	68.51	1.12
3670	4.76	-1.70	67.68	1.07
3680	4.76	-1.67	68.15	1.09
3690	4.86	-1.65	68.36	1.21
3700	4.86	-1.70	67.53	1.16
3710	4.75	-1.85	65.26	1.90
3720	4.65	-1.88	64.90	1.77
3730	4.56	-1.97	63.58	1.99
3740	4.58	-1.95	63.80	2.33
3750	4.58	-1.90	64.59	2.55
3760	4.76	-1.80	66.04	2.99
3770	4.89	-1.66	68.18	2.88
3780	4.88	-1.60	69.21	2.21
3790	4.75	-1.59	69.31	1.99
3800	4.71	-1.61	69.07	1.10
3810	4.49	-1.70	67.61	2.79
3820	4.41	-1.69	67.72	2.72
3830	4.40	-1.72	67.30	2.68
3840	4.44	-2.01	62.88	2.43
3850	4.41	-1.70	67.58	2.70

BGS-036(3580-3850)_30du

Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
5000	6.12	-1.81	65.87	4.31
5010	6.15	-1.83	65.59	4.32
5020	6.13	-1.80	66.05	4.32
5030	6.12	-1.89	64.65	4.23
5040	6.14	-2.09	61.78	4.05
5050	6.09	-2.09	61.74	3.99
5060	6.09	-2.09	61.74	4.00
5070	6.02	-2.04	62.56	3.98
5080	6.11	-2.07	62.13	4.04
5090	6.12	-2.07	62.07	4.05
5100	6.13	-2.04	62.55	4.09
5110	6.17	-2.00	63.11	4.17
5120	6.17	-2.08	61.96	4.09
5130	6.21	-2.08	61.90	4.13
5140	6.26	-2.14	61.05	4.12
5150	6.32	-2.26	59.39	4.06
5160	6.31	-2.13	61.26	4.18
5170	6.34	-2.20	60.31	4.15
5180	6.29	-2.20	60.32	4.09
5190	6.39	-2.20	60.28	4.19
5200	6.41	-2.23	59.77	4.17
5210	6.40	-2.244	59.67	4.15
5220	6.40	-2.12	61.40	4.29
5230	6.42	-2.20	60.32	4.22
5240	6.45	-2.22	59.91	4.22
5250	6.49	-2.28	59.18	4.21
5260	6.47	-2.33	58.45	4.14
5270	6.45	-2.37	57.99	4.08
5280	6.52	-2.31	58.73	4.21
5290	6.60	-2.34	58.33	4.25
5300	6.66	-2.36	58.13	4.30
5310	6.68	-2.37	57.89	4.31
5320	6.68	-2.31	58.70	4.36
5330	6.69	-2.26	59.47	4.43
5340	6.71	-2.28	59.10	4.43
5350	6.70	-2.29	58.97	4.40
5360	6.73	-2.26	59.37	4.46
5370	6.74	-2.25	59.59	4.49
5380	6.77	-2.31	58.79	4.47
5390	6.78	-2.35	58.26	4.44
5400	6.79	-2.45	56.87	4.34
5410	6.79	-2.50	56.20	4.29
5420	6.74	-2.58	55.27	4.17
5430	6.70	-2.61	54.81	4.09
5440	6.70	-2.73	53.32	3.97
5450	6.61	-2.72	53.49	3.89
5460	6.57	-2.80	52.53	3.77
5470	6.51	-2.83	52.14	3.68
5480	6.49	-2.83	52.08	3.66
5490	6.36	-2.88	51.49	3.47

BCS-036(5000-5490)_30da

Frequency (MHz)	Directivity (dBi)	Avg Gain(dBi)	Efficiency (%)	Peak Gain(dBi)
5500	6.30	-2.98	50.41	3.32
5510	6.24	-3.07	49.35	3.17
5520	6.17	-3.15	48.37	3.02
5530	6.07	-3.18	48.14	2.89
5540	5.97	-3.19	48.00	2.78
5550	5.83	-3.18	48.05	2.65
5560	5.75	-3.18	48.05	2.56
5570	5.61	-3.25	47.30	2.36
5580	5.56	-3.26	47.21	2.30
5590	5.42	-3.30	46.82	2.12
5600	5.26	-3.32	46.61	1.94
5620	4.85	-3.19	47.96	1.66
5630	4.65	-3.19	47.94	1.45
5640	4.55	-3.20	47.84	1.34
5650	4.48	-3.27	47.15	1.21
5660	4.33	-3.21	47.72	1.12
5670	4.25	-3.10	48.94	1.15
5680	3.97	-2.98	50.33	0.99
5690	3.90	-2.93	50.99	0.98
5700	3.90	-2.89	51.42	1.01
5710	4.11	-2.94	50.81	1.17
5720	4.10	-2.97	50.42	1.13
5730	4.02	-3.00	50.08	1.01
5740	4.03	-2.89	51.42	1.14
5750	4.03	-2.86	51.74	1.17
5760	4.14	-2.83	52.08	1.31
5770	4.02	-2.84	52.04	1.19
5780	4.01	-2.88	51.54	1.13
5790	4.05	-2.92	51.07	1.14
5800	4.11	-2.92	51.01	1.19
5810	4.09	-2.93	50.94	1.16
5820	4.12	-2.90	51.27	1.22
5830	4.17	-2.90	51.32	1.28
5840	4.05	-2.83	52.12	1.22
5850	4.18	-2.71	53.63	1.47
5860	4.22	-2.78	52.69	1.44
5870	4.27	-2.80	52.43	1.46
5880	4.17	-2.83	52.15	1.34
5890	4.07	-2.76	52.93	1.30
5900	4.03	-2.70	53.67	1.33
5910	3.97	-2.65	54.27	1.31
5920	3.92	-2.71	53.52	1.21
5930	3.92	-2.85	51.93	1.08
5940	3.84	-2.91	51.14	0.92
5950	3.71	-2.95	50.66	0.76
5960	3.80	-2.90	51.24	0.90
5970	3.83	-2.81	52.36	1.02
5980	3.81	-2.78	52.76	1.04
5990	3.77	-2.81	52.31	0.96
6000	3.80	-2.83	52.07	0.96

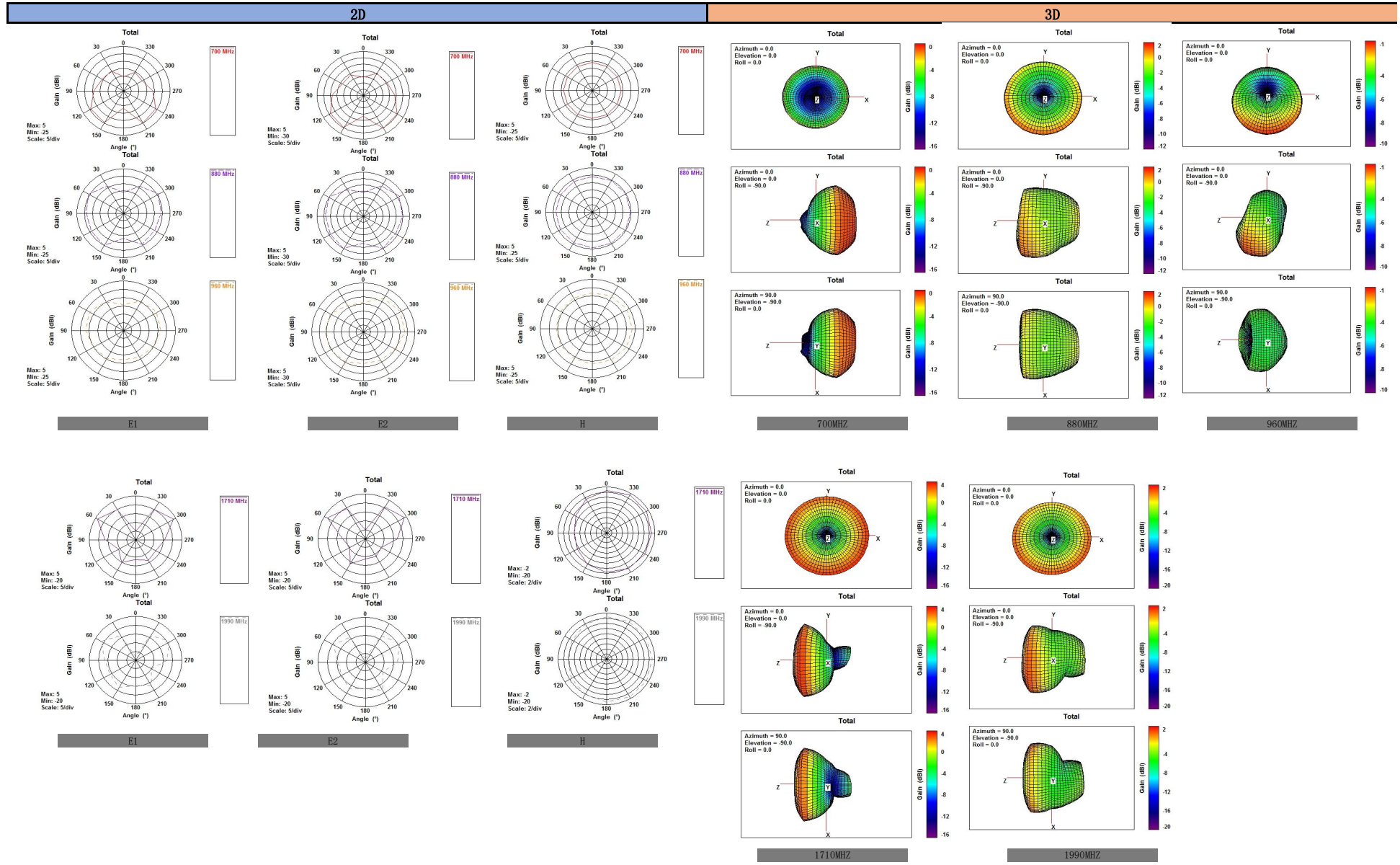
BCS-036(5500-6000)_30da

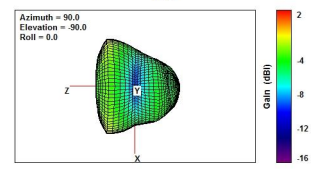
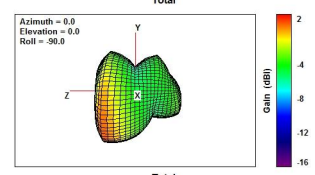
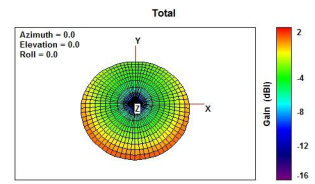
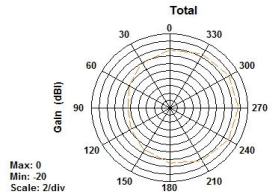
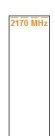
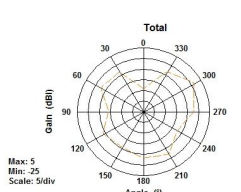
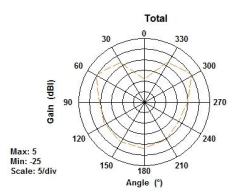


深圳市博格斯通信技术有限公司

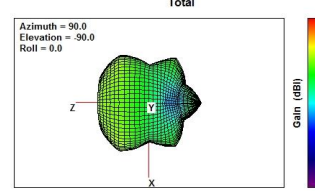
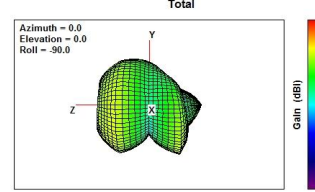
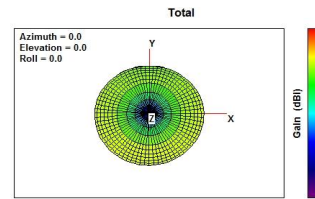
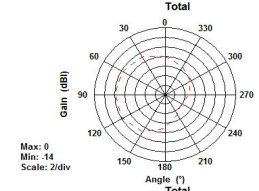
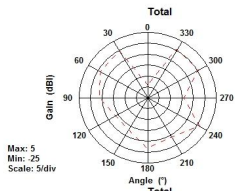
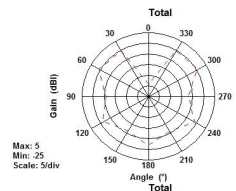
shenzhen bogesi communication technology co.,ltd

Direction map:

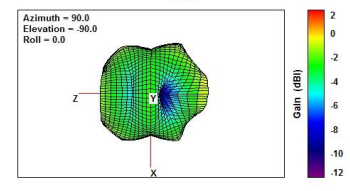
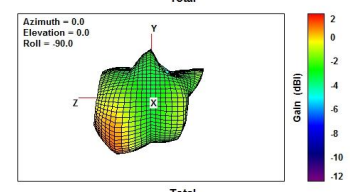
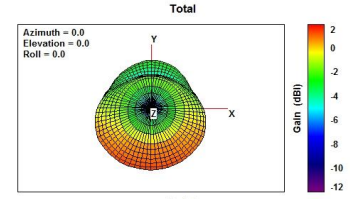




2170MHZ



2690MHZ

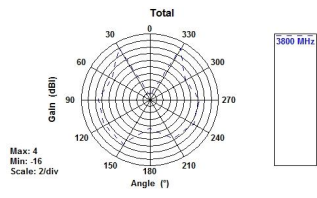


3350MHZ

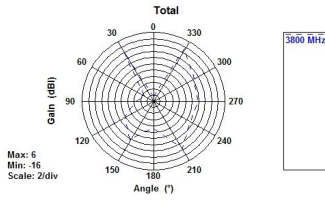
E1

E2

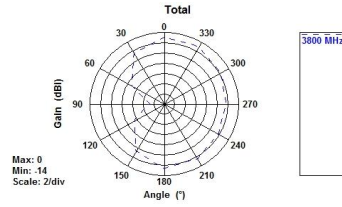
H



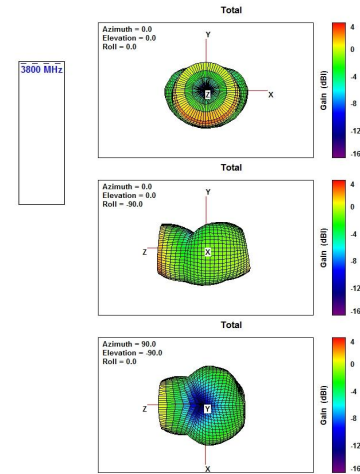
E1



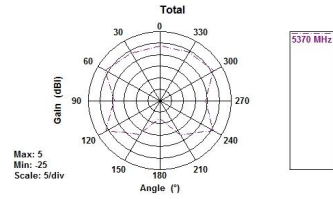
E2



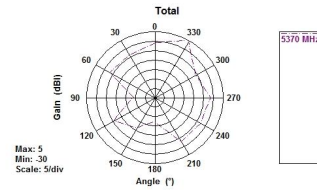
H



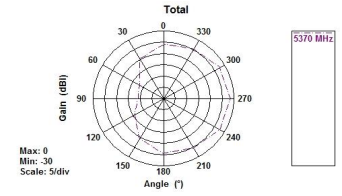
3800MHZ



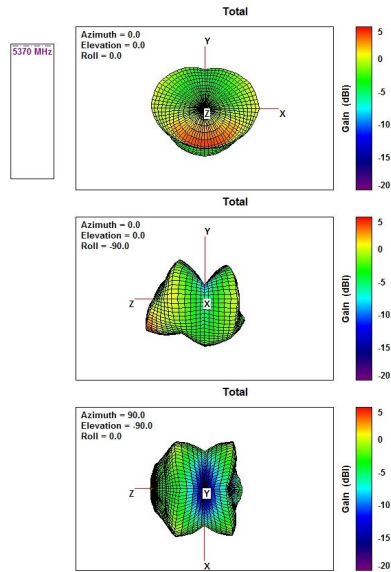
E1



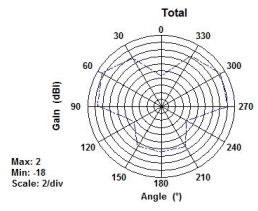
E2



H

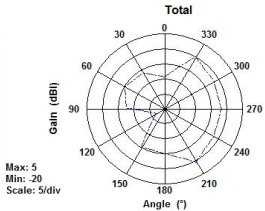


5370MHZ



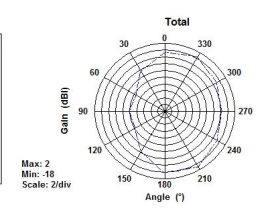
E1

6000 MHz



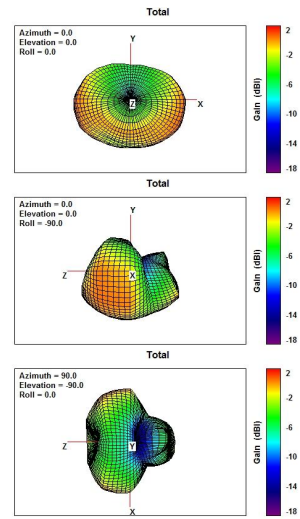
E2

6000 MHz



H

6000 MHz

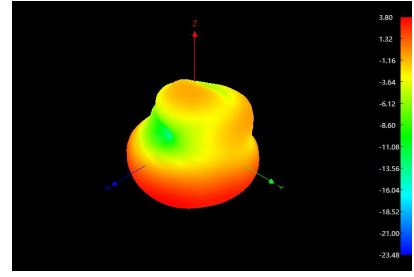
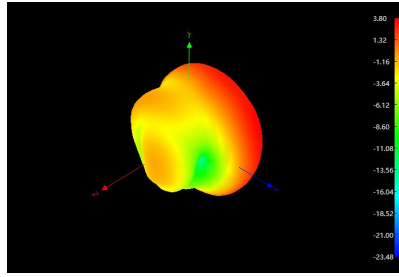
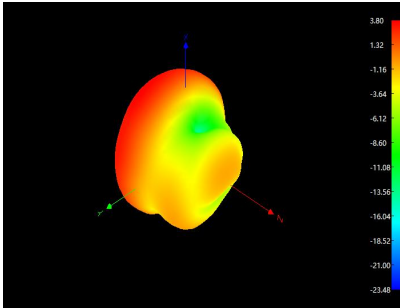


6000MHZ

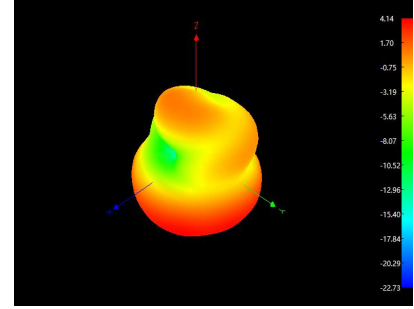
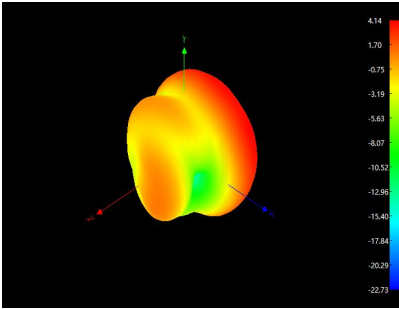
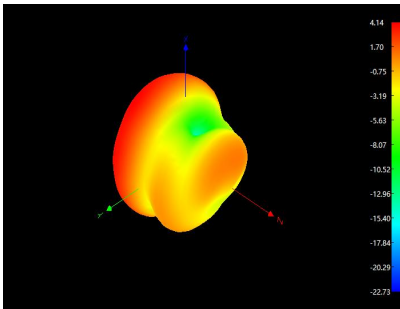


Direction map:

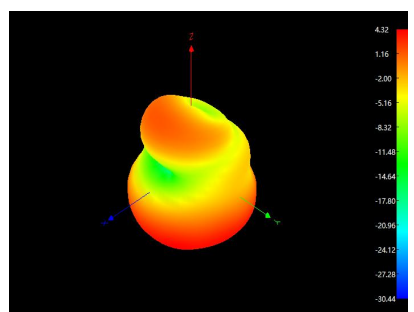
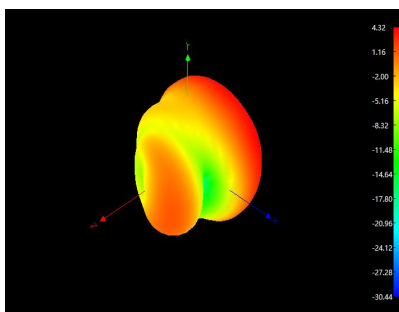
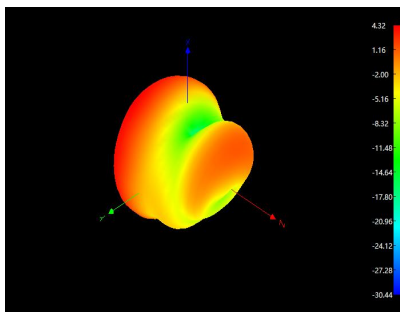
700



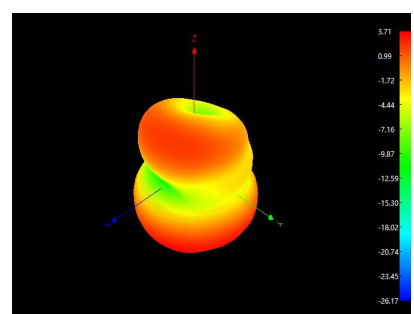
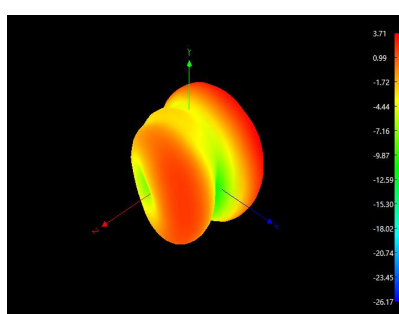
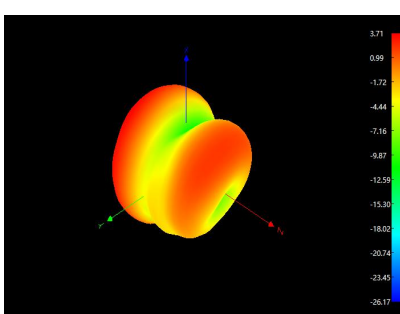
750



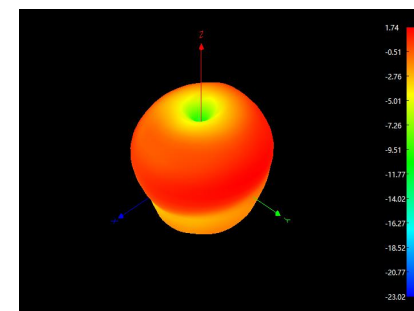
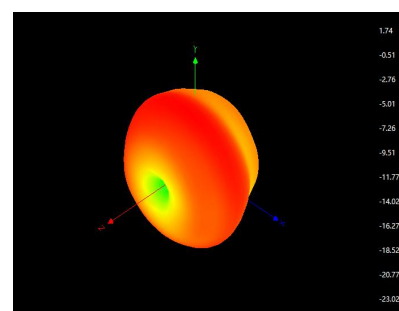
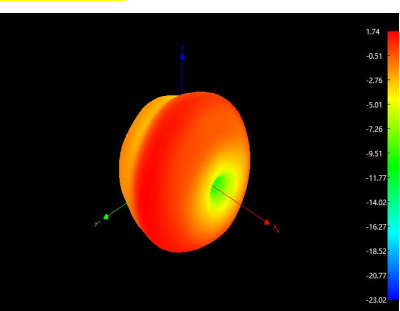
800



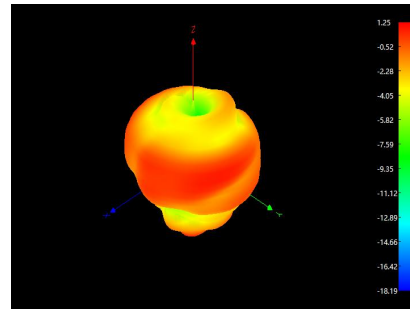
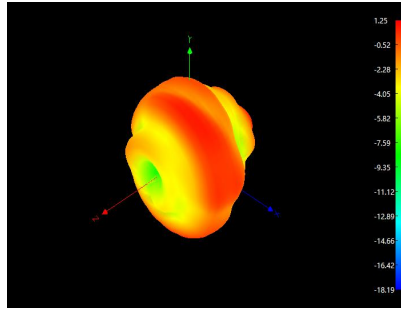
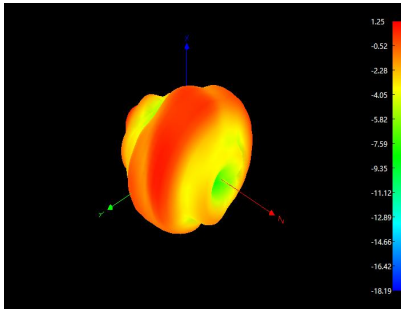
850



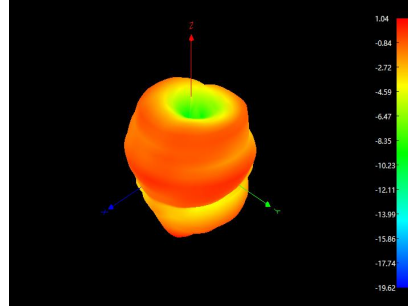
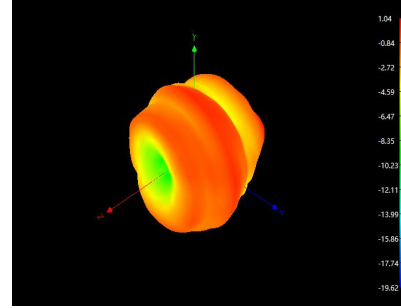
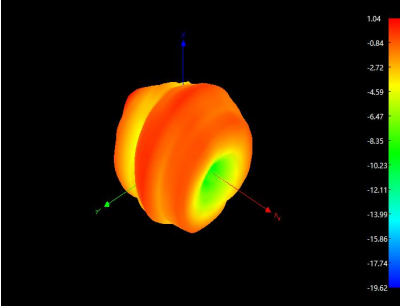
1570



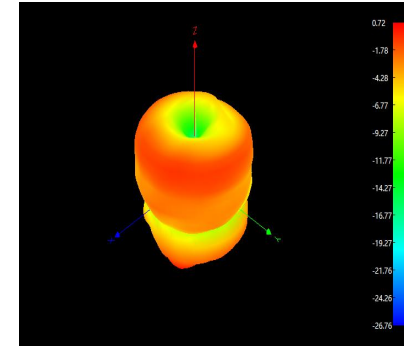
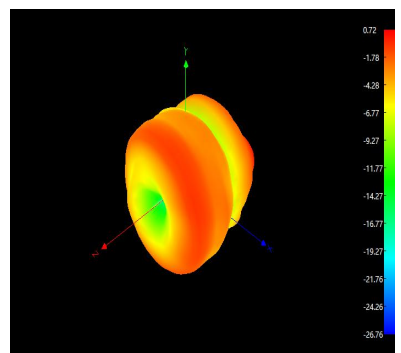
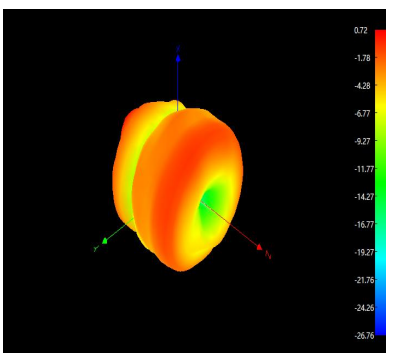
2170



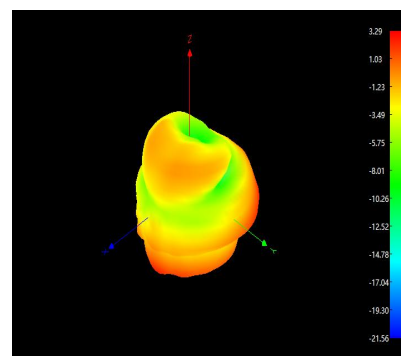
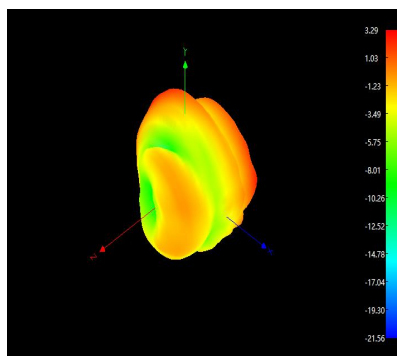
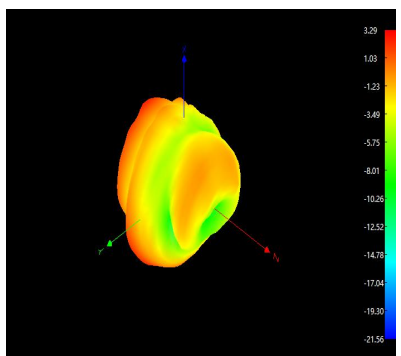
2400



2500



3000



3500

