



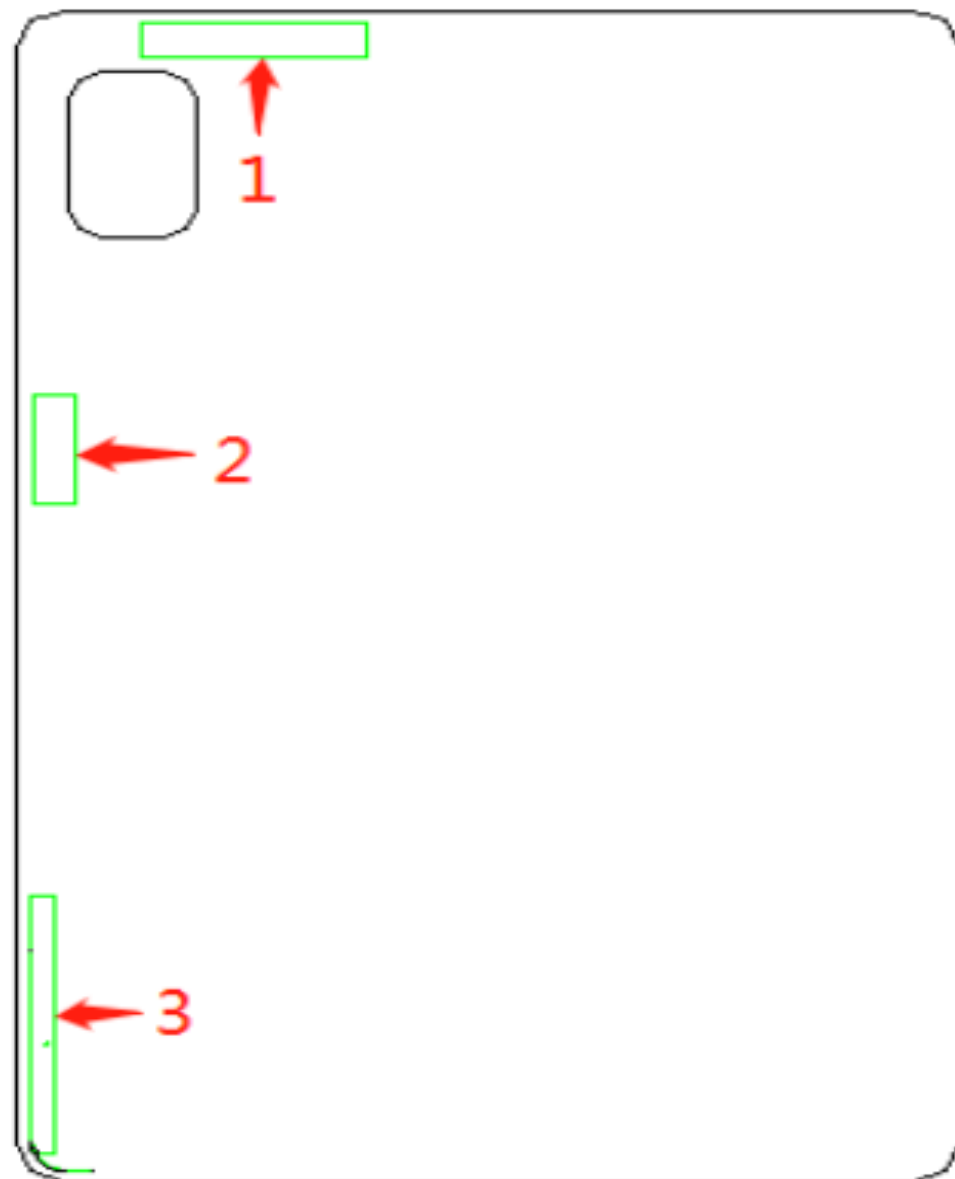
深圳市信源通电子科技有限公司

Antenna Performance Test Report			
Customer Name	Ti anrui xi ang Company	RF Engineer	Xi ao Long
Project Name	P1005-310A	Structural engineer	Li ang Kunrong
Antenna frequency band	GSM+WCDMA+LTE+GPS/WIFI/BT		
Report version	Date	Content Summary	
V1.0	2023-4-13	Antenna Performance Test Report	

Test report directory

- 🔗 I. Passive Standing Wave Graph, Smith Circle Graph, and Apple Graph
- 🔗 II. Passive gain efficiency of antenna
- 🔗 III. Antenna test data
- 🔗 VI. remarks

Antenna Placement



Antenna :1 :WIFI/BT/GPS

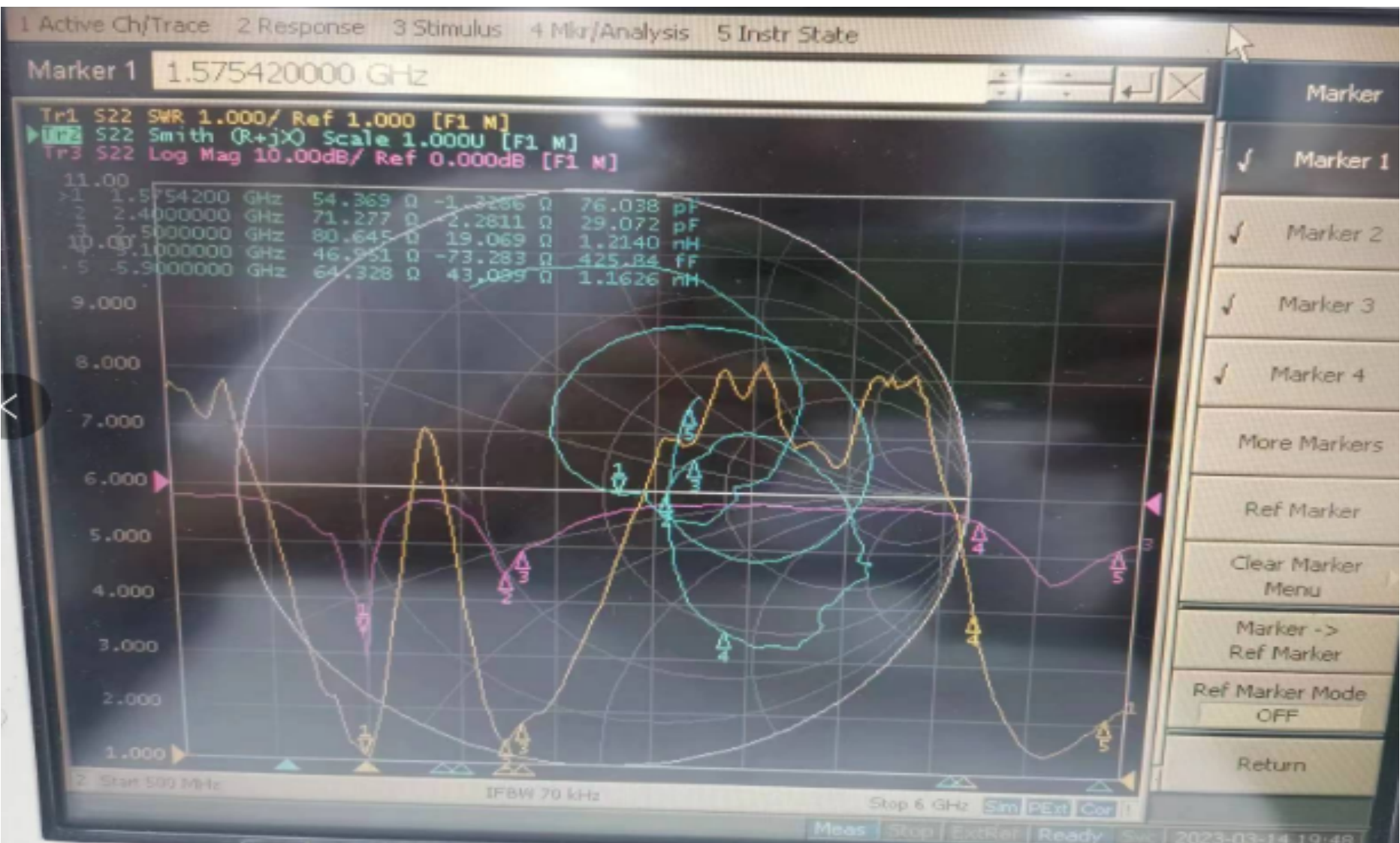
Antenna :2 :2G/3G/4G DIV ANT

Antenna :3:2G/3G/4G Main ANT

I Passive standing waves, Smith circle diagram

GPS/WIFI/BT

The PS / WIFI / BT antenna

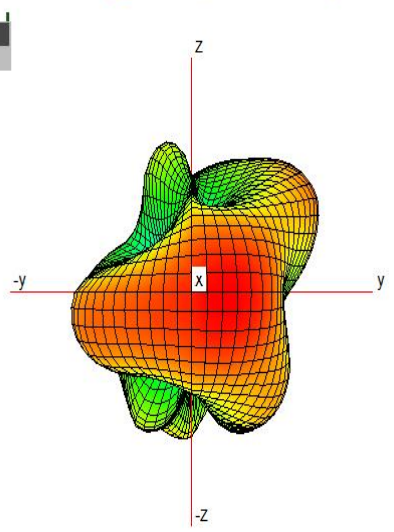
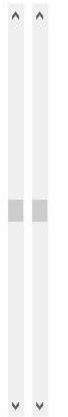


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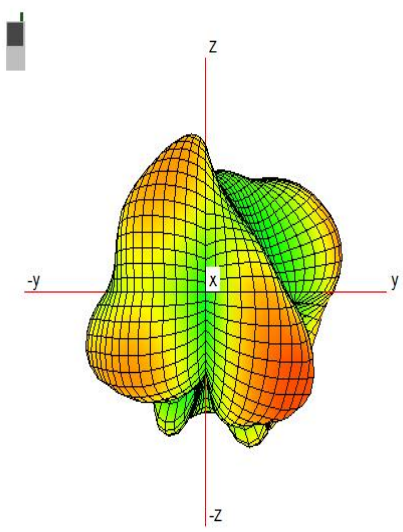
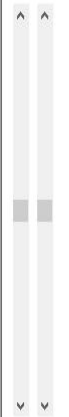
Zoom Scale



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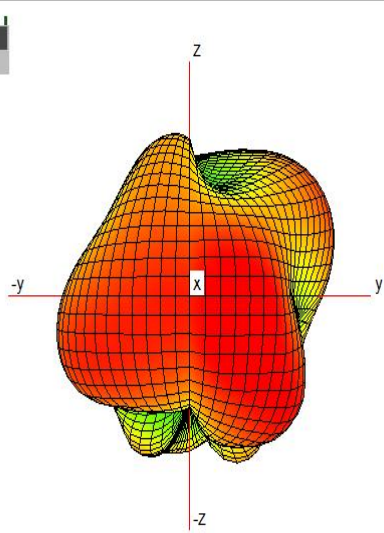
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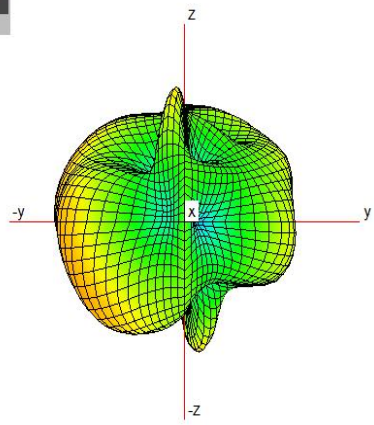
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Theta

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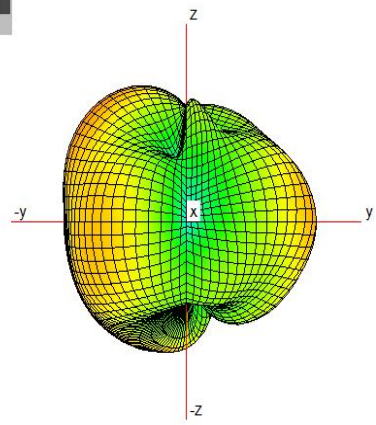
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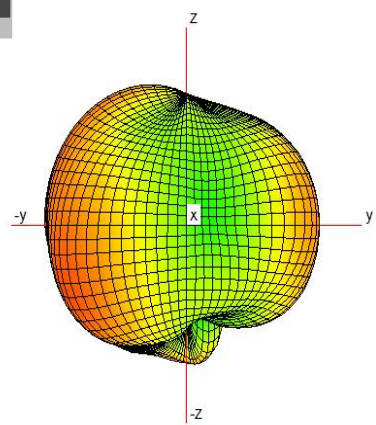
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Zoom Scale

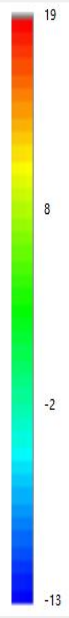
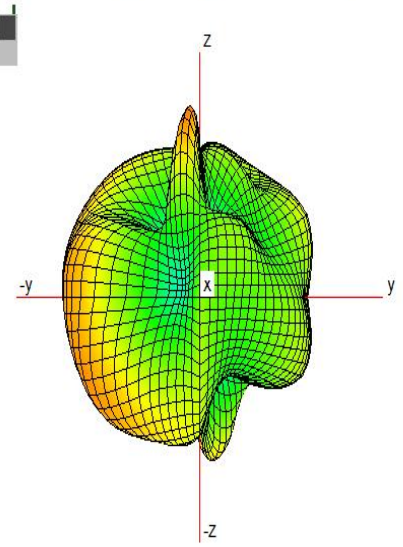


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Theta

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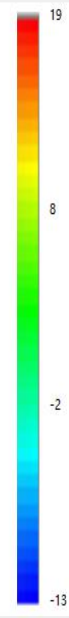
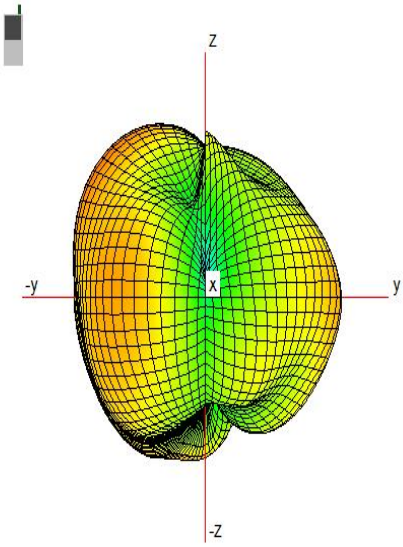
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Phi

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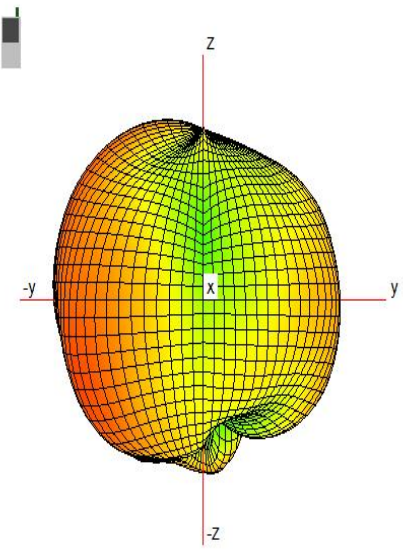
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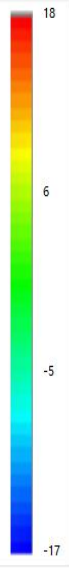
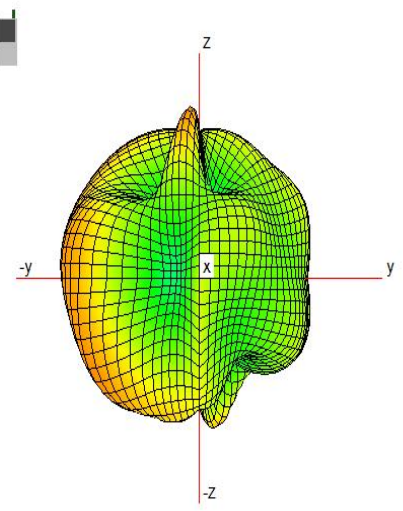
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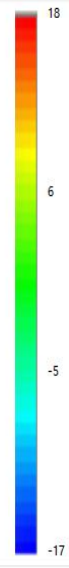
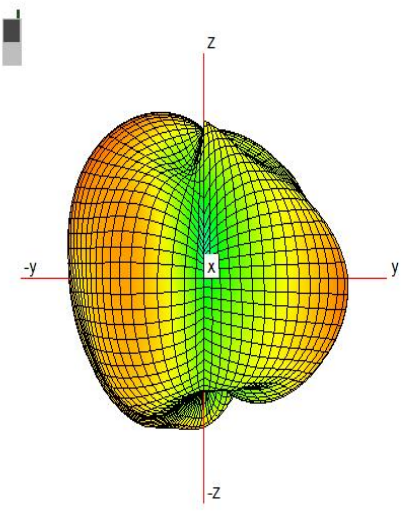
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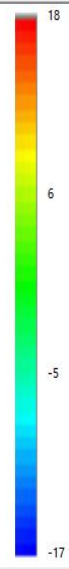
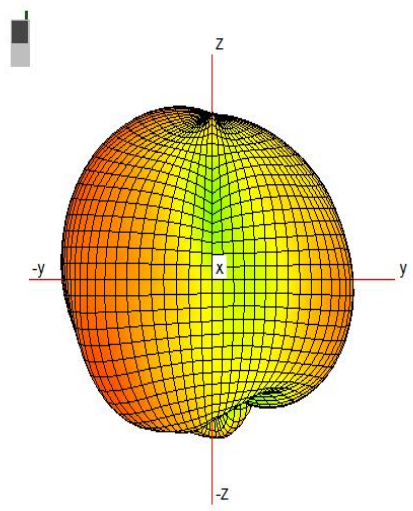
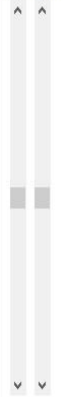
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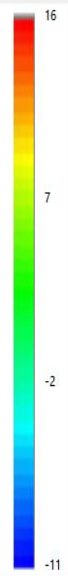
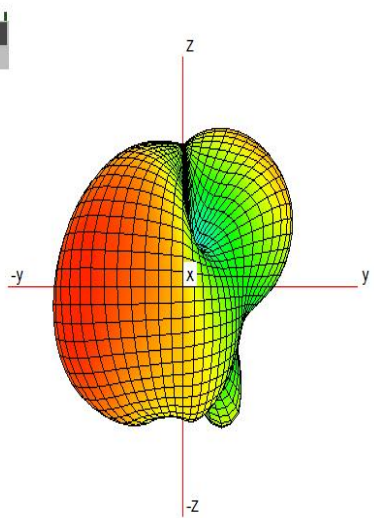
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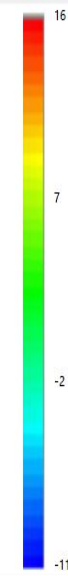
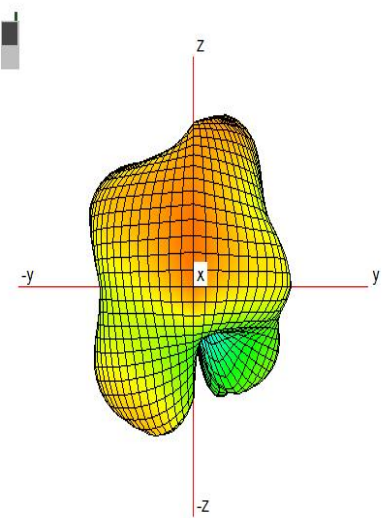
Theta

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Zoom Scale



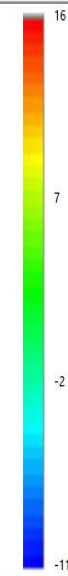
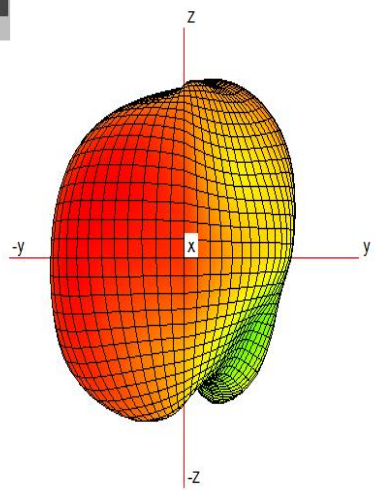
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Zoom Scale



Total

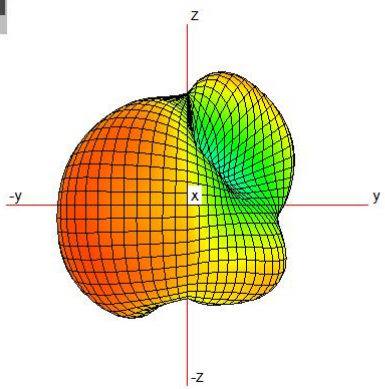
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Frequency: 5320

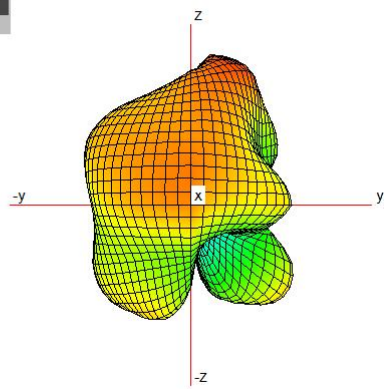
Theta

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Zoom Scale



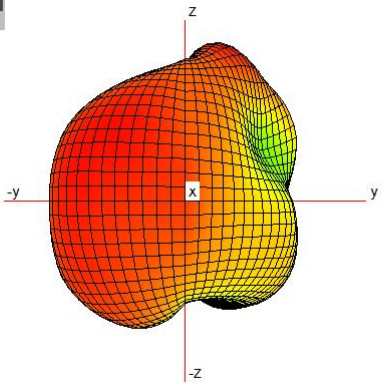
Phi

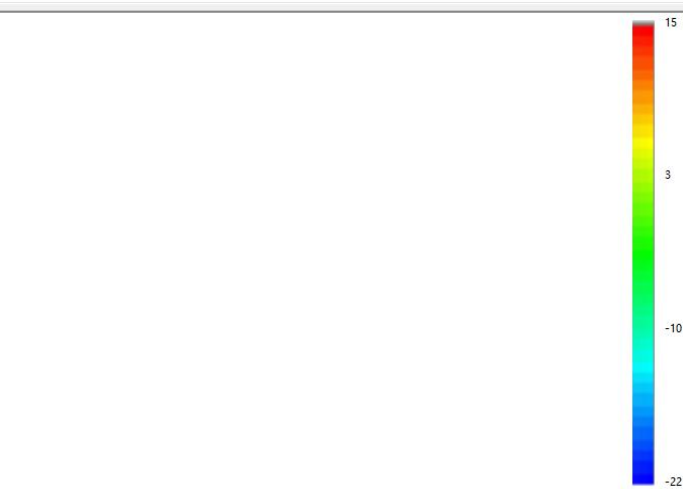
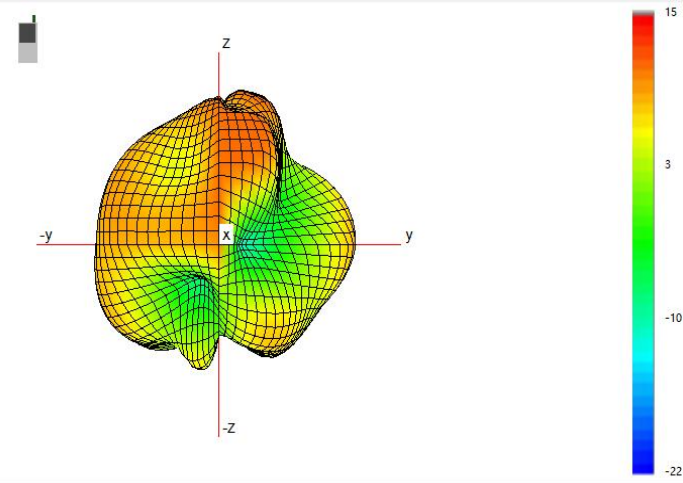
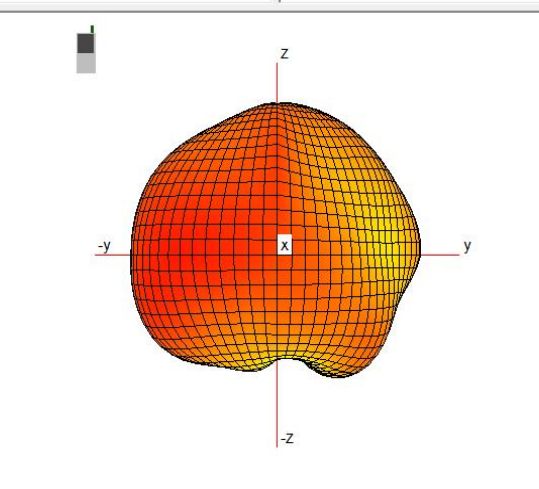
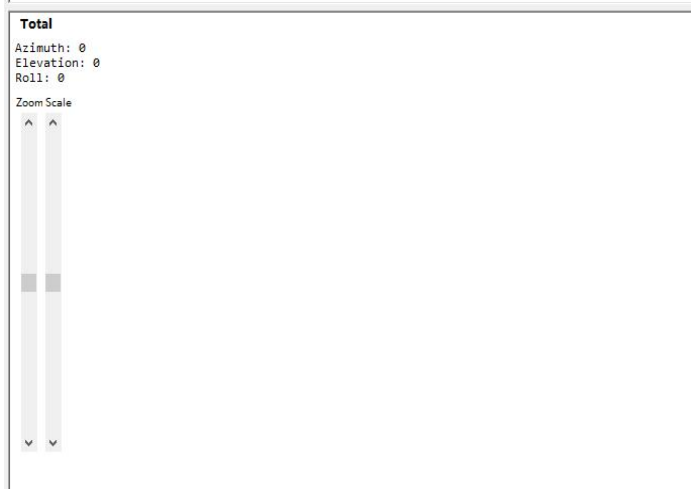
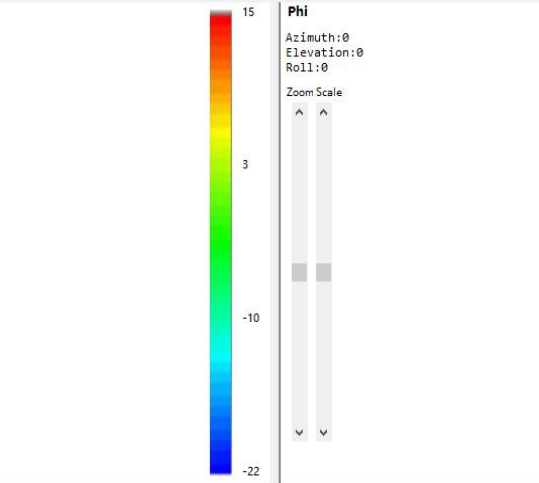
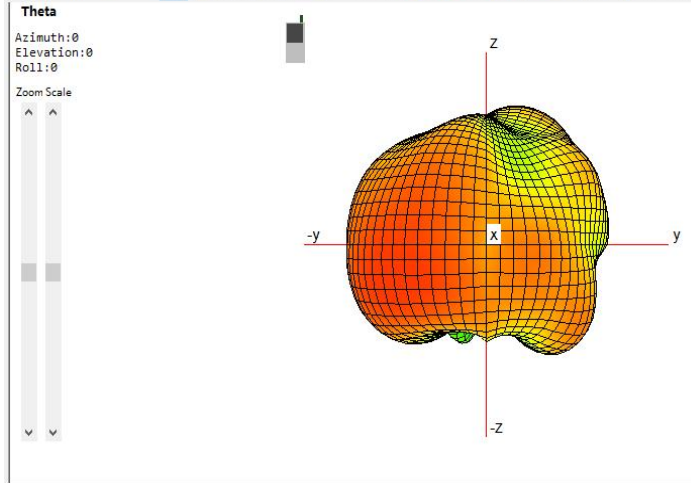
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Zoom Scale



Total

Azimuth: 0
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Zoom Scale





III Antenna passive gain efficiency: main antenna

Freq (MHz)	Effi (dB)	Gain (dBi)	Effi (%)	Freq (MHz)	Effi (dB)	Gain (dBi)	Effi (%)
700	-4.95	-1.06	31.97	1940	-2.06	1.32	62.28
710	-4.57	-1.25	34.88	1960	-2.13	1.43	61.3
720	-4.55	-1.01	35.05	1980	-2.1	1.74	61.67
730	-4.53	-1.43	35.23	2000	-2.25	1.61	59.52
740	-4.13	-1.62	38.65	2020	-2.64	1.26	54.45
750	-3.78	-1.10	41.92	2040	-2.49	2.03	56.34
760	-3.55	-0.49	44.15	2060	-2.48	2.22	56.47
770	-3.62	-0.41	43.42	2080	-2.75	1.81	53.09
780	-3.76	-0.50	42.11	2100	-2.92	1.6	51.06
790	-4.08	-1.41	39.13	2120	-3.01	1.53	50.05
800	-3.89	0.27	40.82	2140	-3.16	1.47	48.35
810	-3.41	0.68	45.57	2160	-3.2	1.57	47.86
820	-3.34	0.73	46.32	2180	-3.3	1.6	46.81
830	-3.16	0.89	48.26	2200	-3.48	1.34	44.85
840	-3.27	0.73	47.06	2220	-3.5	1.34	44.65
850	-3.21	0.63	47.79	2240	-3.63	1.11	43.36
860	-3.53	0.32	44.39	2260	-3.66	1.21	43.03
870	-3.47	0.23	44.79	2280	-3.67	1.42	42.94
880	-3.74	-0.1	42.28	2300	-3.7	1.48	42.63
890	-4.09	-0.53	38.98	2320	-3.84	1.43	41.28
900	-3.37	-0.54	45.99	2340	-3.79	1.55	41.75
910	-3	-0.21	50.12	2360	-3.89	1.47	40.83
920	-3.06	-0.41	49.44	2380	-4.28	1.06	37.32
930	-3.13	-0.7	48.68	2400	-4.52	0.56	35.31
940	-3.43	-0.96	45.44	2420	-4.72	-0.01	33.71
950	-4.01	-1.32	39.69	2440	-4.85	-0.64	32.74
960	-4.73	-1.99	33.64	2460	-4.7	-0.95	33.86
970	-5.46	-2.84	28.47	2480	-4.34	-0.91	36.77
980	-6.4	-3.71	22.9	2500	-4.15	-0.79	38.48
1680	-1.67	2.71	68.06	2520	-4.15	-0.6	38.45
1700	-1.89	2.06	64.65	2540	-4.05	-0.22	39.36
1720	-2.13	1.43	61.28	2560	-4.18	0.31	38.16
1740	-1.96	1.49	63.69	2580	-4.1	0.85	38.89
1760	-2	1.47	63.08	2600	-3.92	1.39	40.6
1780	-2.1	1.47	61.7	2620	-3.82	1.72	41.47
1800	-2.08	1.26	61.87	2640	-4.06	1.33	39.29
1820	-2.11	1.21	61.5	2660	-4.08	1.48	39.1
1840	-2.34	1.51	58.31	2680	-4.17	1.69	38.29
1860	-2.64	1.75	54.47	2700	-4.18	1.64	38.19
1880	-3.03	1.31	49.79	2720	-4.17	1.69	38.3
1900	-2.73	1.44	53.37	2740	-4.16	1.51	38.37
1920	-2.4	1.38	57.58	2750	-4.12	1.46	38.69

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VII.remarks