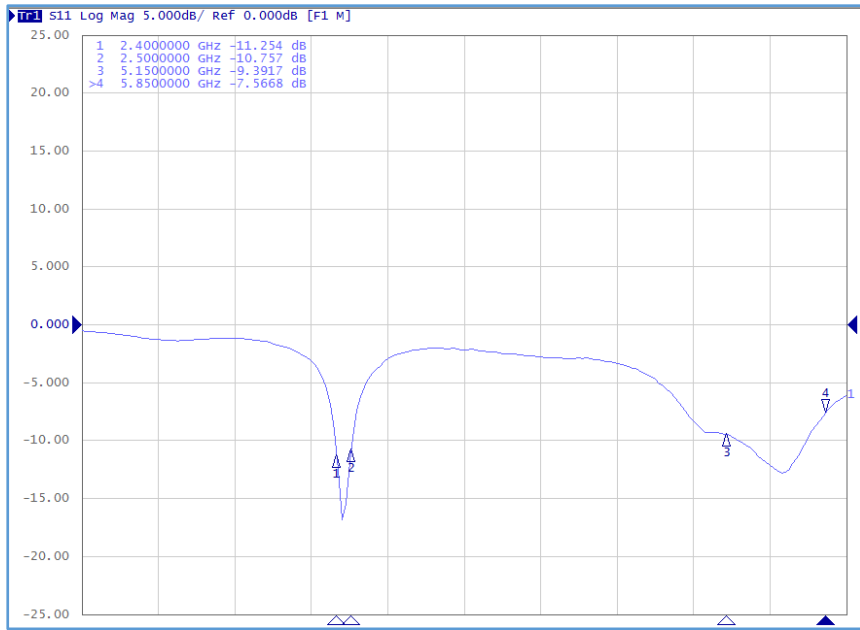


WIFI/BT/GPS Antenna	S99810-G/W-WTT-TH	PIFA	S99810 Calendered copper FPC+adhesive backing black GPS /5G_WIFI/BT	612128000045
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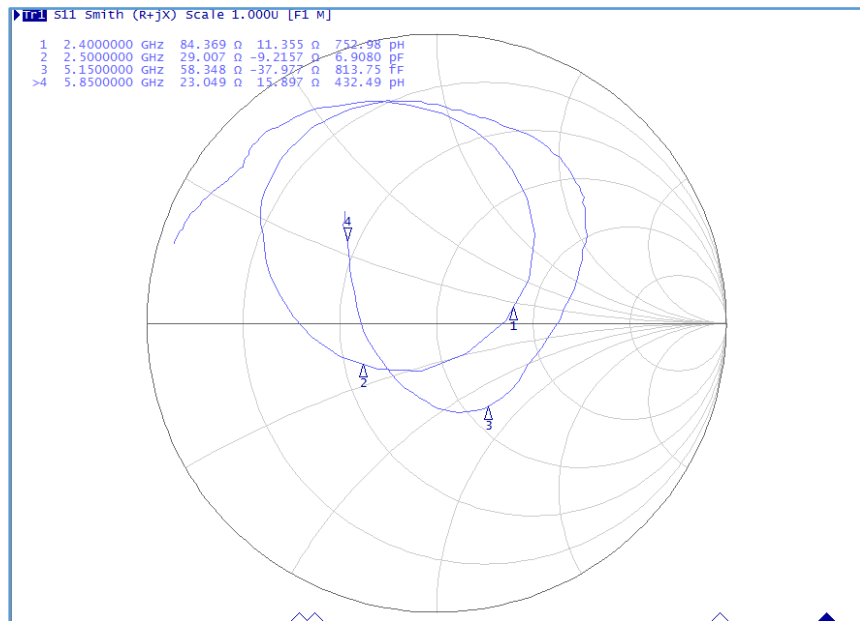
Manufacturer information:

Welletronics Communication Technology Co., Ltd.	The second floor of Building 8, Tongtun Industrial Park, Dalang Street, Longhua District, Shenzhen, Guangdong Province
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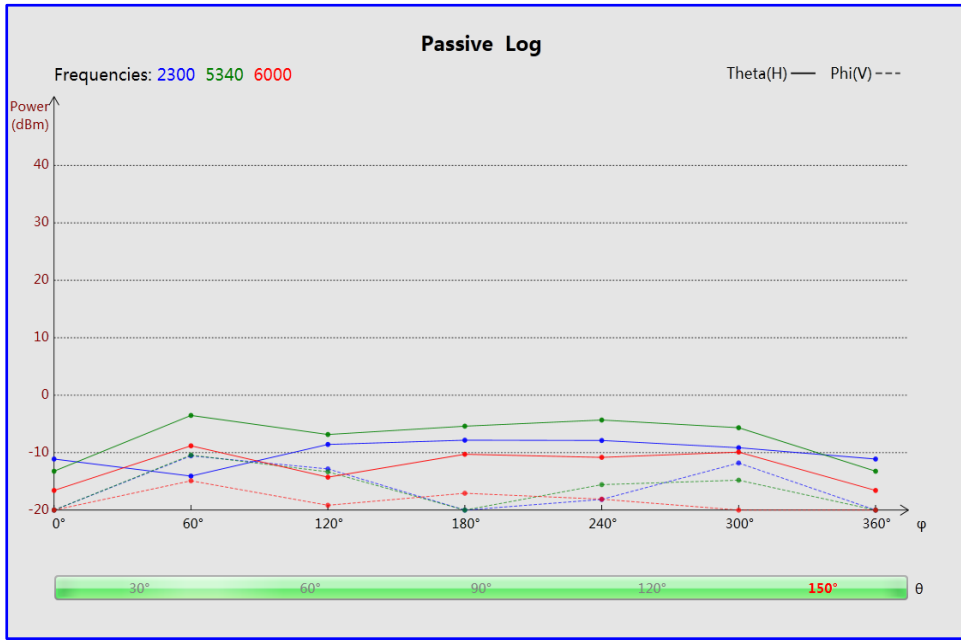
S11



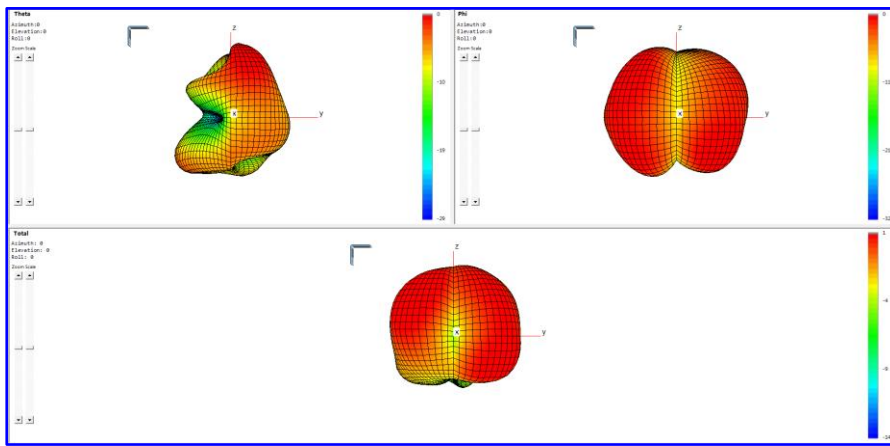
Smith Chart



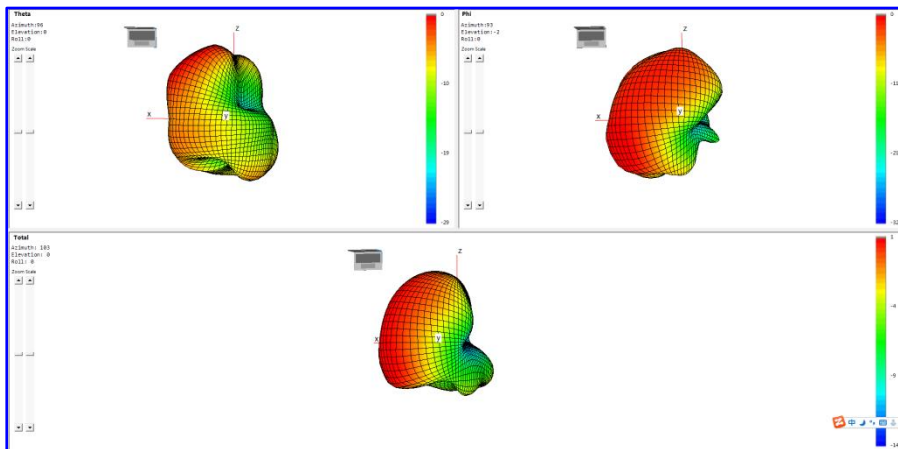
2D



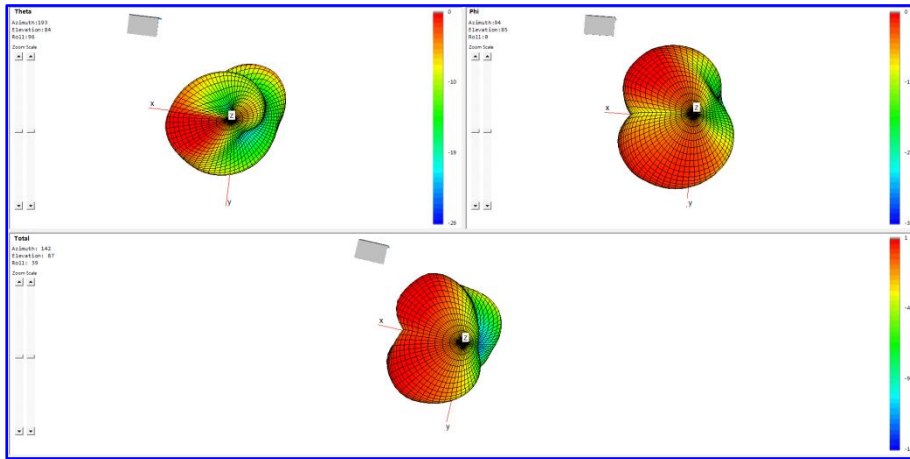
### 3D WIFI-2450



X

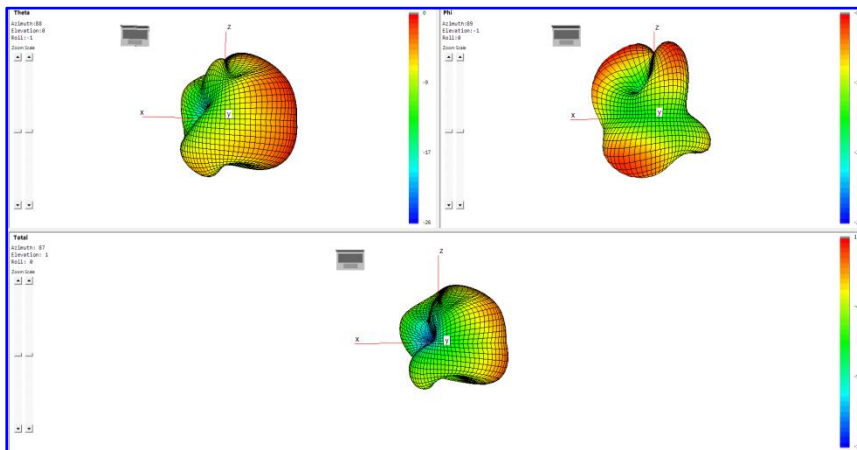


Y

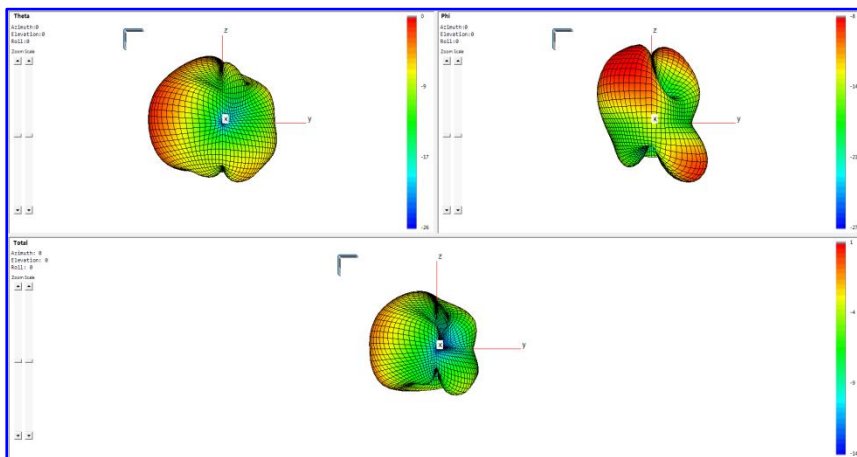


Z

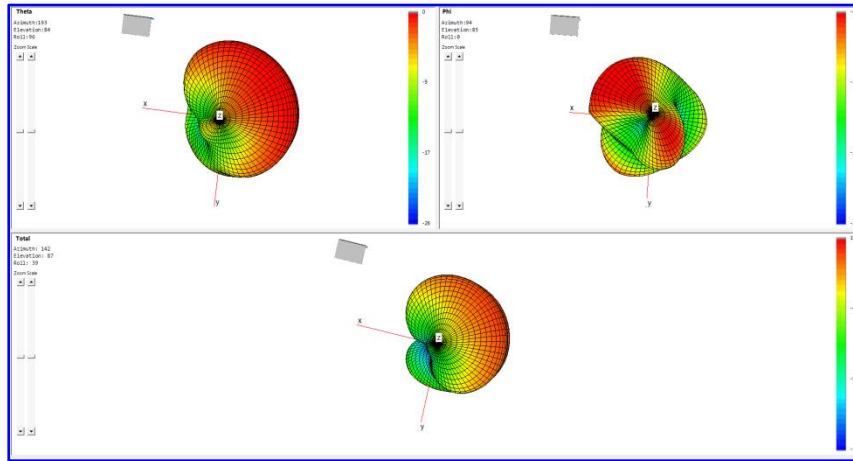
### 3D-WIFI-5500



X



Y



Z

Frequency	Efficient	Gain
2300	-8.06	-3.65
2310	-7.82	-3.44
2320	-7.38	-3.09
2330	-6.89	-2.66
2340	-6.64	-2.55
2350	-6.29	-2.25
2360	-6.03	-1.93
2370	-5.79	-1.63
2380	-5.73	-1.42
2390	-5.55	-1.17
2400	-5.48	-1.01
2410	-5.4	-0.9
2420	-5.43	-0.82
2430	-5.37	-0.77
2440	-5.29	-0.7
2450	-5.32	-0.75
2460	-5.34	-0.76
2470	-5.38	-0.83
2480	-5.52	-1
2490	-5.69	-1.17
2500	-5.84	-1.35
2510	-6.06	-1.55
2520	-6.37	-1.83
2530	-6.59	-2.02
2540	-6.9	-2.28
2550	-7.21	-2.56

2560	-7.32	-2.67
2570	-7.51	-2.85
2580	-7.8	-3.07
2590	-8.03	-3.3
2600	-8.27	-3.48
2610	-8.63	-3.79
2620	-8.81	-3.99
2630	-8.92	-4.11
2640	-9.13	-4.47
2650	-9.45	-4.93
2660	-9.7	-5.34
2670	-10.14	-5.91
2680	-10.37	-6.25
2690	-10.34	-6.32
2700	-10.47	-6.53
5000	-4.2	0.11
5010	-4.09	0.16
5020	-4.08	0.1
5030	-3.97	0.13
5040	-3.91	0.18
5050	-3.82	0.26
5060	-3.79	0.3
5070	-3.67	0.44
5080	-3.51	0.64
5090	-3.5	0.64
5100	-3.44	0.73
5110	-3.34	0.86
5120	-3.3	0.9
5130	-3.36	0.89
5140	-3.35	0.93
5150	-3.2	1.09
5160	-3.2	1.08
5170	-3.07	1.22
5180	-2.99	1.24
5190	-2.86	1.34
5200	-2.89	1.28
5210	-2.83	1.29
5220	-2.75	1.33
5230	-2.77	1.33
5240	-2.73	1.43
5250	-2.76	1.45
5260	-2.75	1.51
5270	-2.76	1.5

5280	-2.78	1.48
5290	-2.66	1.58
5300	-2.54	1.65
5310	-2.51	1.59
5320	-2.47	1.57
5330	-2.42	1.57
5340	-2.46	1.56
5350	-2.62	1.41
5360	-2.59	1.48
5370	-2.52	1.58
5380	-2.59	1.53
5390	-2.63	1.51
5400	-2.56	1.59
5410	-2.54	1.66
5420	-2.47	1.81
5430	-2.48	1.83
5440	-2.3	2.02
5450	-2.22	2.11
5460	-2.28	2.03
5470	-2.35	1.93
5480	-2.36	1.85
5490	-2.42	1.7
5500	-2.5	1.63
5510	-2.48	1.67
5520	-2.4	1.7
5530	-2.36	1.69
5540	-2.33	1.67
5550	-2.17	1.85
5560	-2.13	1.86
5570	-2.11	1.93
5580	-2.13	1.92
5590	-2.14	1.97
5600	-2.18	1.92
5610	-2.3	1.79
5620	-2.33	1.69
5630	-2.36	1.64
5640	-2.43	1.5
5650	-2.36	1.57
5660	-2.27	1.69
5670	-2.14	1.89
5680	-2.1	1.96
5690	-2.14	1.98
5700	-2.16	1.98

5710	-2.25	1.91
5720	-2.38	1.82
5730	-2.51	1.72
5740	-2.55	1.67
5750	-2.56	1.7
5760	-2.6	1.69
5770	-2.59	1.75
5780	-2.54	1.81
5790	-2.46	1.92
5800	-2.49	1.94
5810	-2.48	1.96
5820	-2.51	1.93
5830	-2.62	1.81
5840	-2.75	1.68
5850	-2.96	1.46
5860	-3	1.38
5870	-3.12	1.28
5880	-3.2	1.23
5890	-3.17	1.3
5900	-3.38	1.11
5910	-3.62	0.9
5920	-3.69	0.91
5930	-3.7	0.93
5940	-3.83	0.84
5950	-4.07	0.55
5960	-4.14	0.47
5970	-4.26	0.3
5980	-4.37	0.14
5990	-4.51	-0.06
6000	-4.53	-0.08