



The Holy bond Electronics Co., Ltd. Antenna Test Report



Content

1. Product Overview

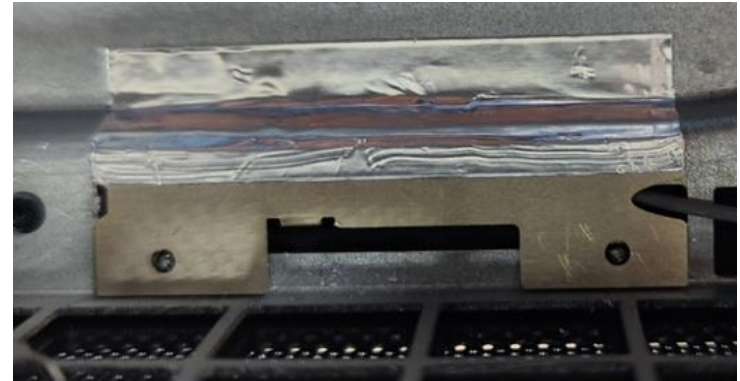
2. Test Result

2.1 VSWR/S11

2.2 WIFI Antenna Gain/Efficiency/3D DUT

3. Conclusions

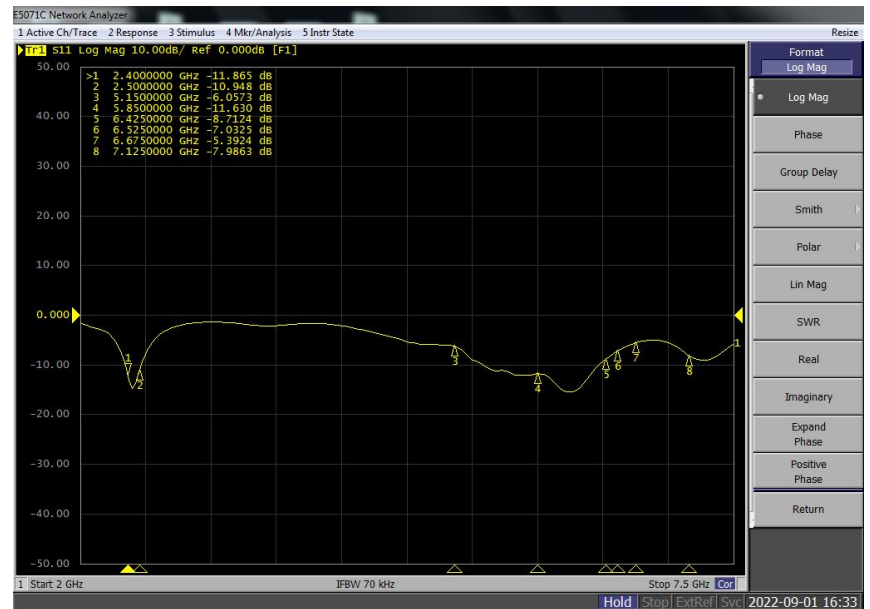
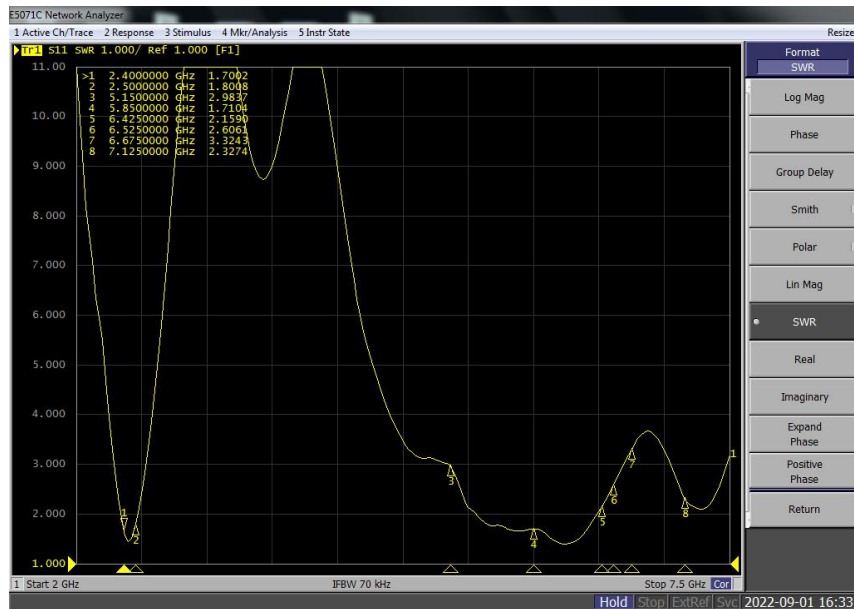
1. Product Overview



2. Test Result

2.1 VSWR/S11

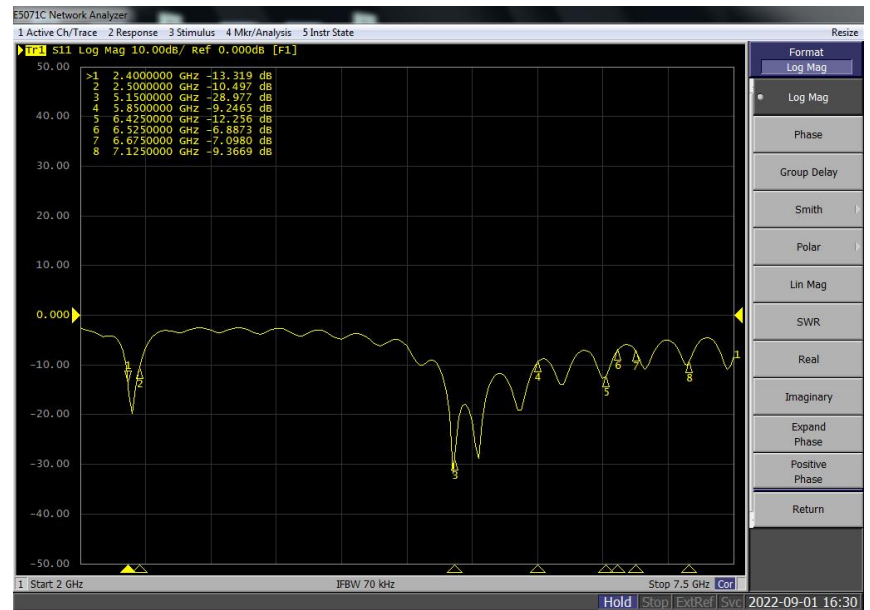
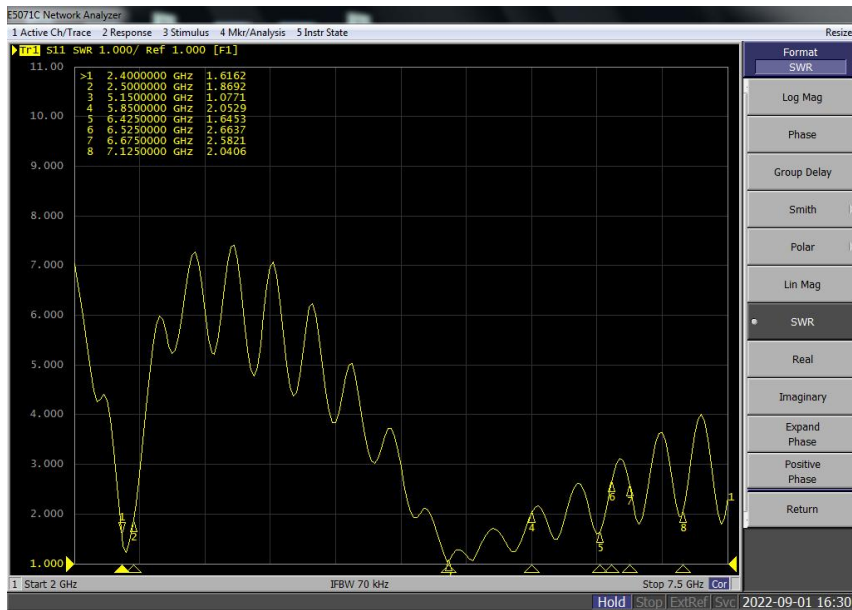
MAIN



2. Test Result

2.1 VSWR/S11

AUX



2. Test Result

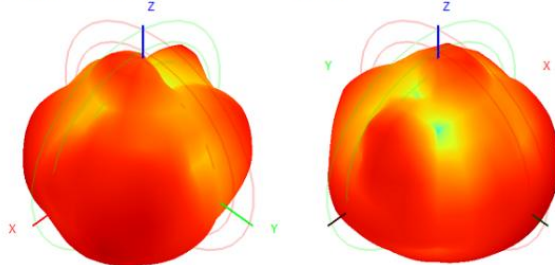
2.2 Gain/Efficiency/3D DATE

MAIN

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	5230.0	5350.0	5690.0	5820.0	6010.0	6450.0	6550.0	6890.0
Efficiency (dBi)	-3.41	-3.36	-3.35	-3.30	-3.32	-3.38	-3.17	-3.67	-4.32	-4.18	-2.88	-1.80	-1.71	-1.90	-3.49	-3.40	-4.22
Gain (dBi)	1.01	1.16	1.23	1.15	0.91	0.97	1.21	0.77	0.09	3.28	4.83	6.60	7.53	8.35	5.55	4.55	3.86
Efficiency (%)	45.56	46.15	46.22	46.77	46.51	45.90	48.14	42.99	37.01	38.16	51.48	66.08	67.50	64.50	44.77	45.72	37.88

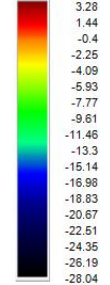
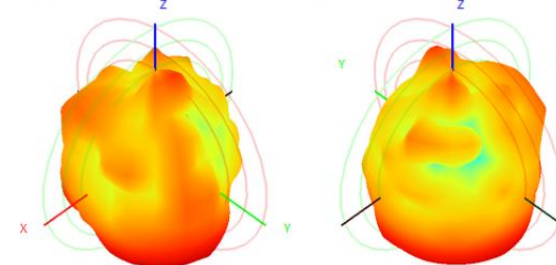
2420.0MHz H+V, Eff: 46.2%

Back View



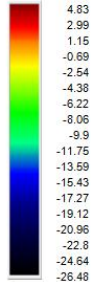
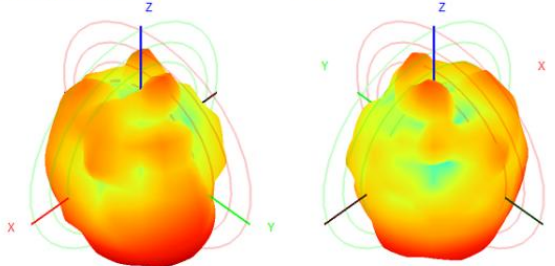
5230.0MHz H+V, Eff: 38.2%

Back View



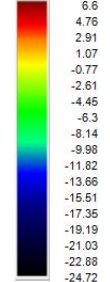
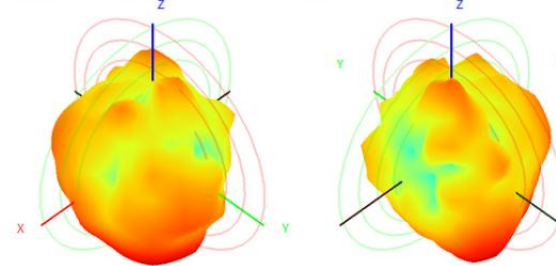
5350.0MHz H+V, Eff: 51.5%

Back View



5690.0MHz H+V, Eff: 66.1%

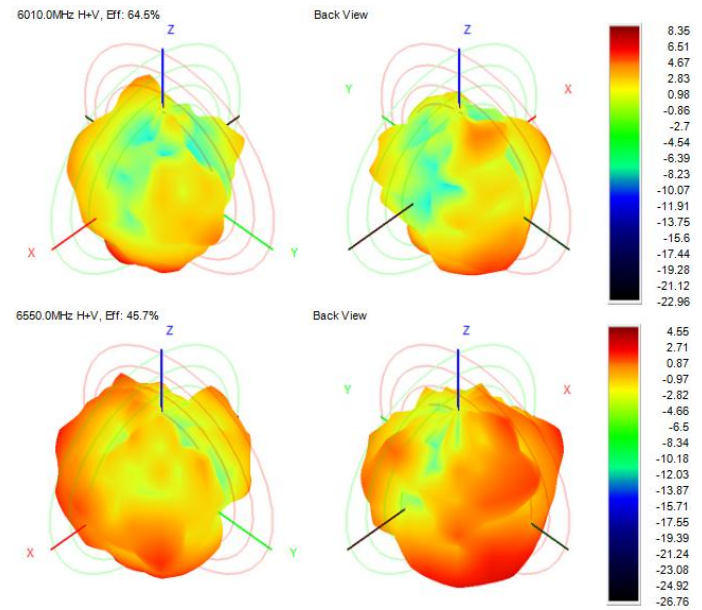
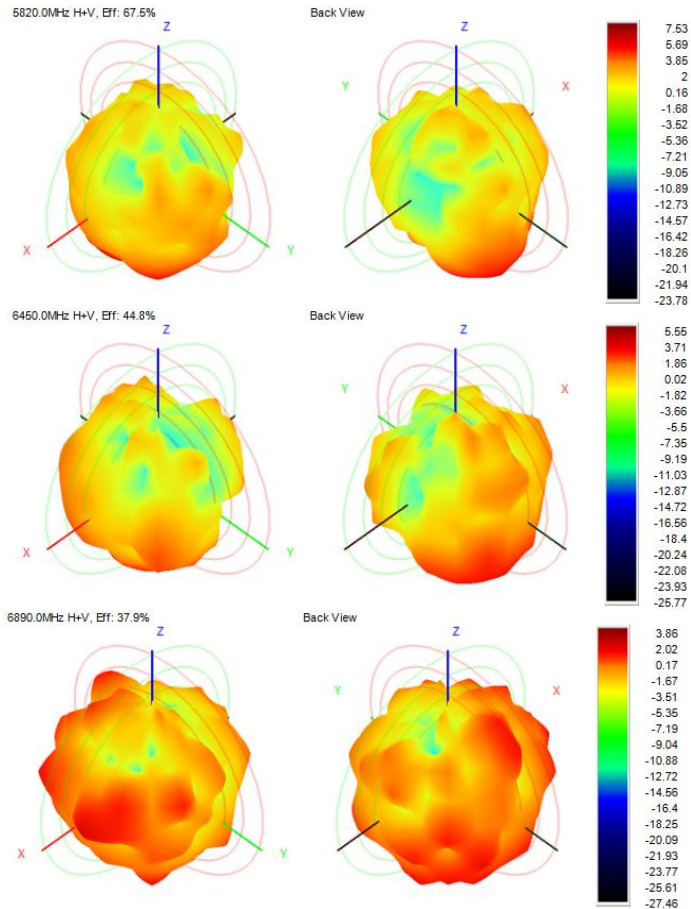
Back View



2. Test Result

2.3 Gain/Efficiency/3D DATE

MAIN



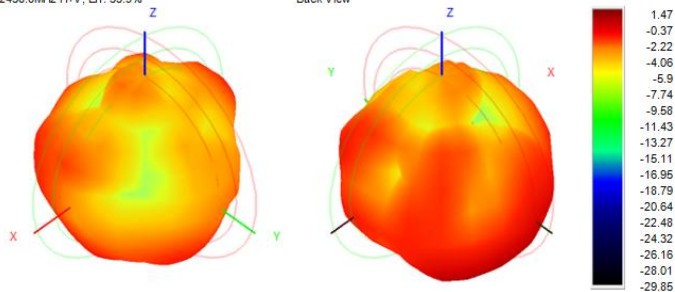
2. Test Result

2.3 Gain/Efficiency/3D DATE

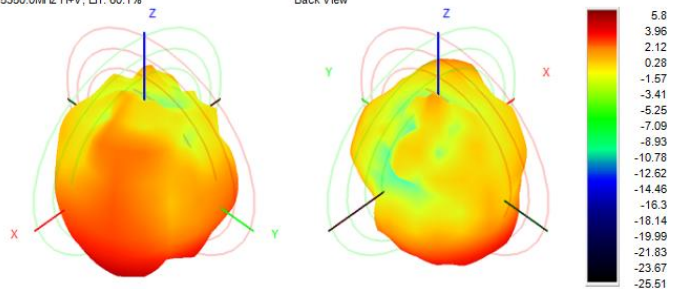
AUX

Frequency (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	5250.0	5350.0	5520.0	5820.0	6010.0	6450.0	6550.0	6890.0
Efficiency (dBi)	-5.45	-5.34	-5.17	-4.99	-4.75	-4.70	-4.58	-4.55	-4.70	-2.90	-2.21	-2.02	-2.21	-2.99	-4.39	-4.20	-4.90
Gain (dBi)	0.57	0.62	0.81	1.14	1.43	1.47	1.43	1.25	1.07	4.39	5.80	7.24	5.95	6.54	5.00	3.53	2.53
Efficiency (%)	28.51	29.27	30.41	31.67	33.51	33.91	34.80	35.06	33.91	51.30	60.10	62.84	60.09	50.21	36.37	38.02	32.35

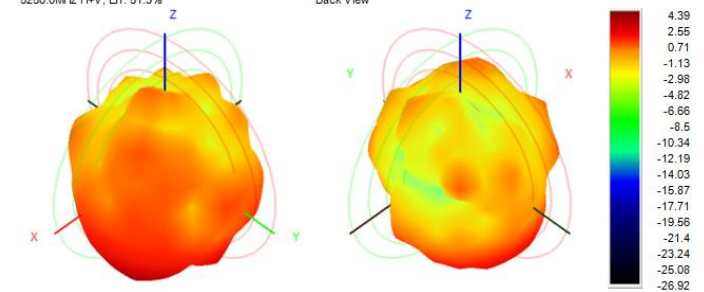
2450.0MHz H+V, Eff: 33.9%



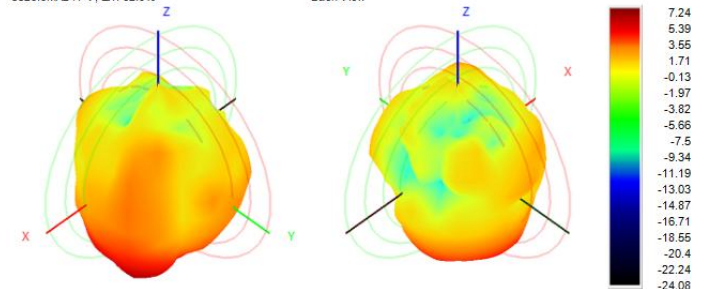
5350.0MHz H+V, Eff: 60.1%



5250.0MHz H+V, Eff: 51.3%



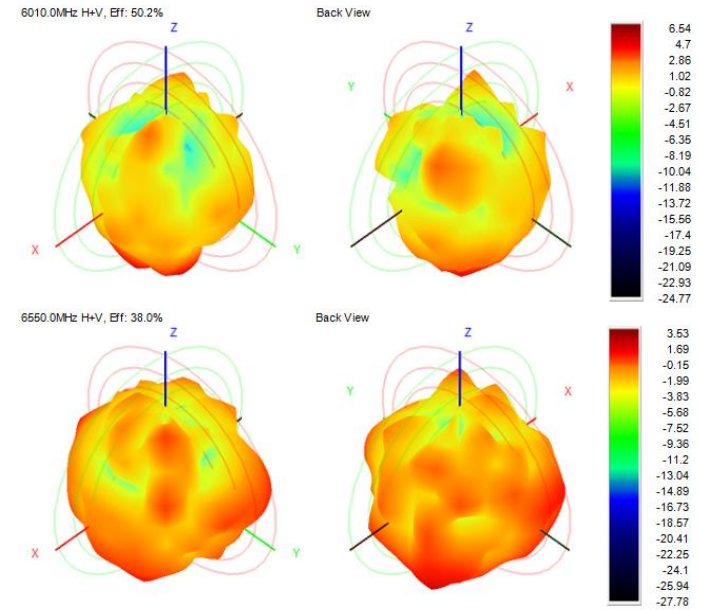
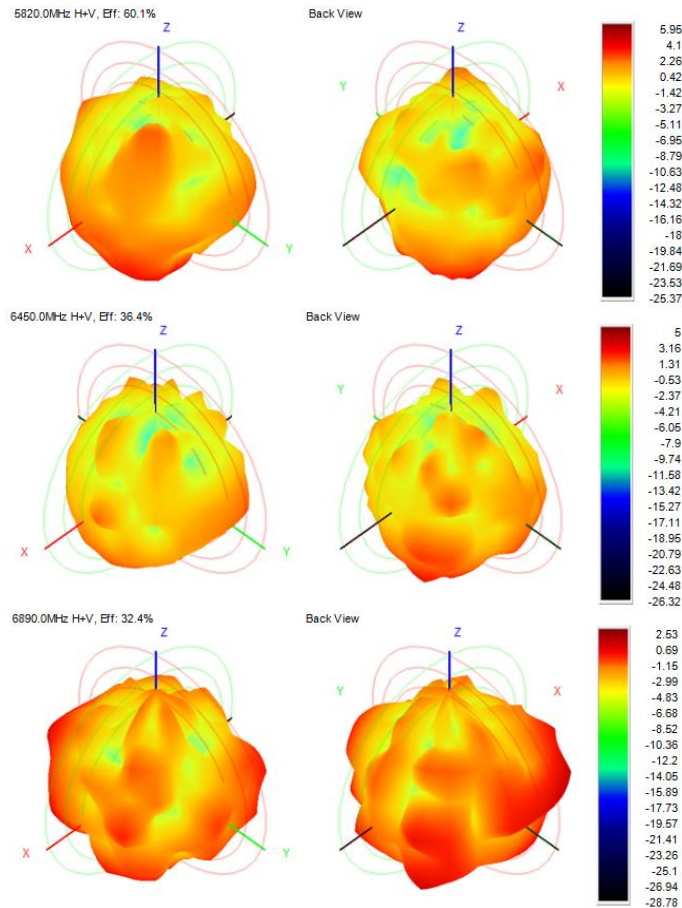
5520.0MHz H+V, Eff: 62.8%



2. Test Result

2.3 Gain/Efficiency/3D DATE

AUX





3. Conclusions

Thank you