

Antenna debugging report



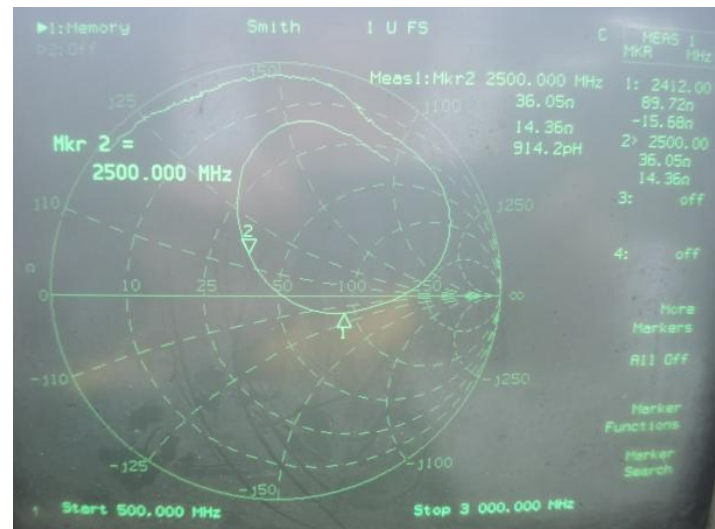
1.Introduction to project debugging

machine description:	Bluetooth 5.3 Smart Food Thermometer			
Main board model:				
antenna material		frequency		material
	ANT	BT	2.412GHz	PCB
Performance requirements	Passive and active test			

Manufacture:Foner Technology Co.,Ltd.

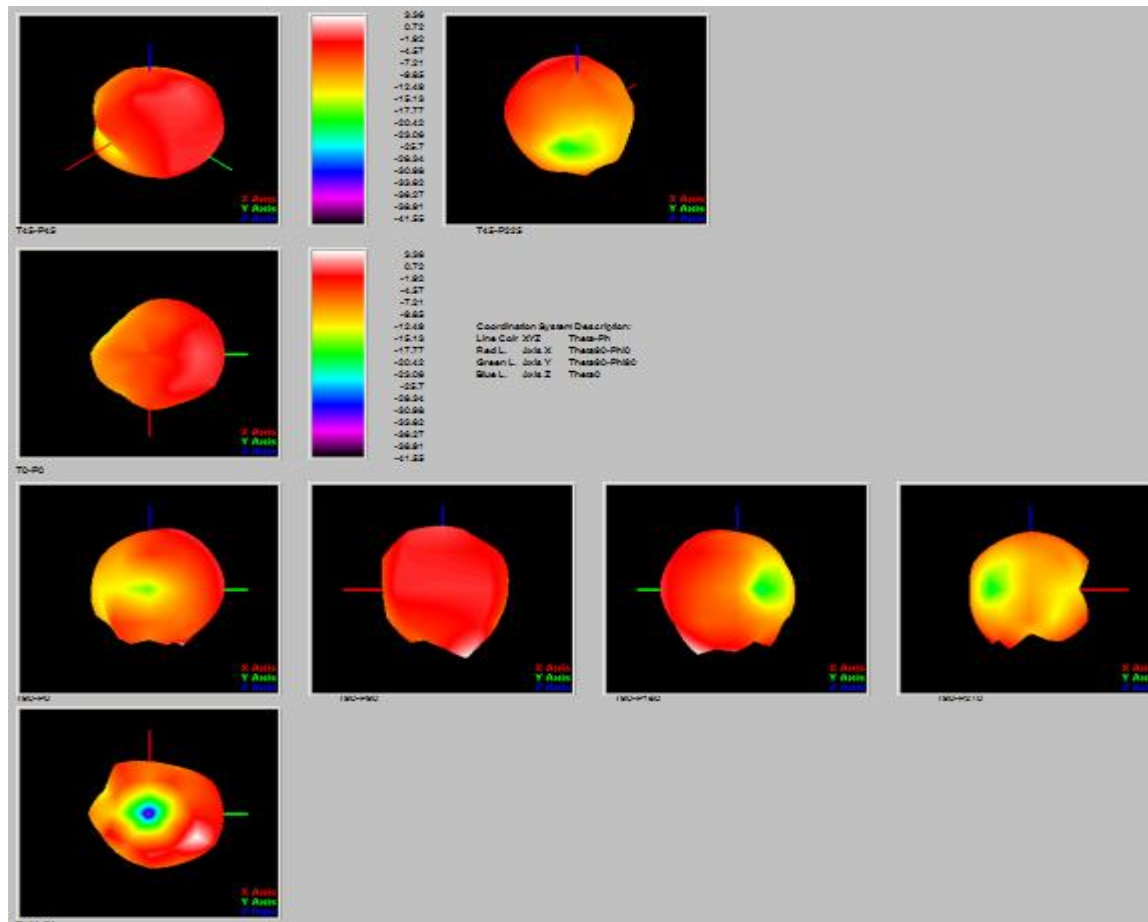


LOGMAG + VSWR+SMITH





2. 4GHz direction map

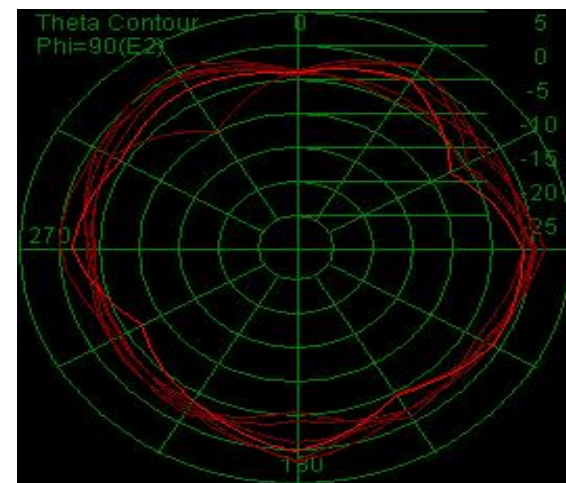
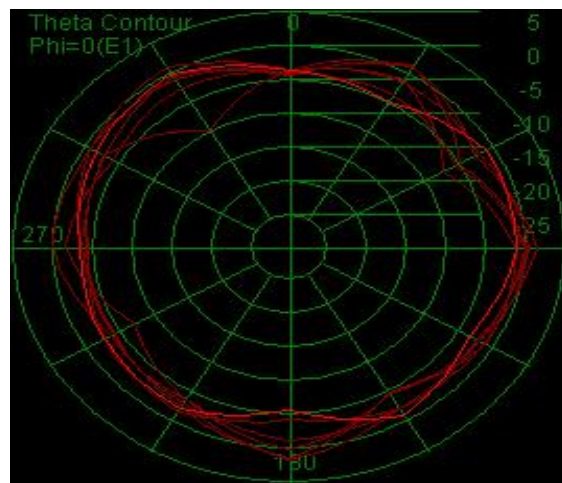
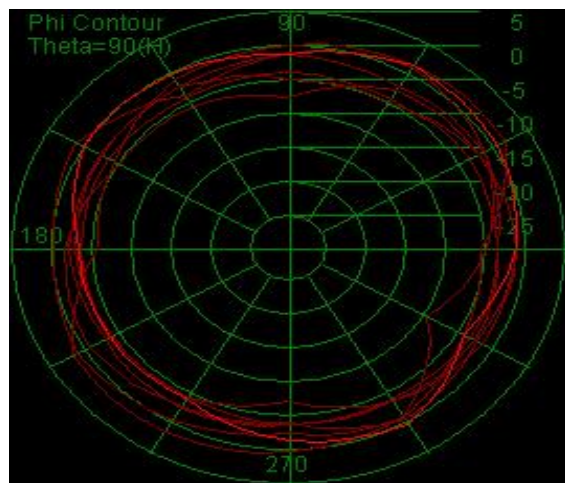




H
XY轴

V
XZ轴

V
YZ轴





3.Antenna Passive Data

Test Point ID	1	2	3	4	5	6	7	8	9	10	11
Freq. (MHz)	2400.0	2410.0	2420.0	2430.0	2440.0	2450.0	2460.0	2470.0	2480.0	2490.0	2500.0
Gain (dBi)	0.67	0.84	1.27	1.52	1.64	1.77	1.61	1.47	1.28	1.33	1.17
Efficiency (%)	40.9%	42.1%	42.7%	43.8%	44.5%	45.1%	44.6%	43.8%	42.3%	41.9%	40.6%



4. Antenna active data(OTA data)

Test Result	BT		
	0	39	78
TRP (dBm)	5.88	5.75	6.13
TIS (dBm)	-85.32	-85.49	-85.37

