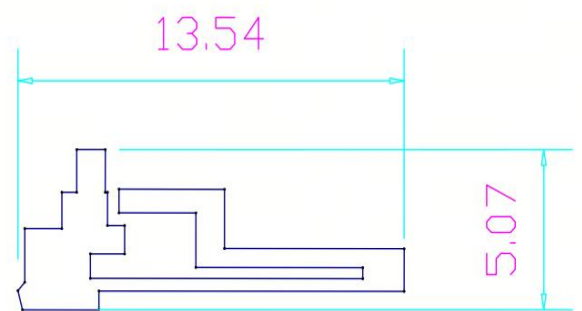
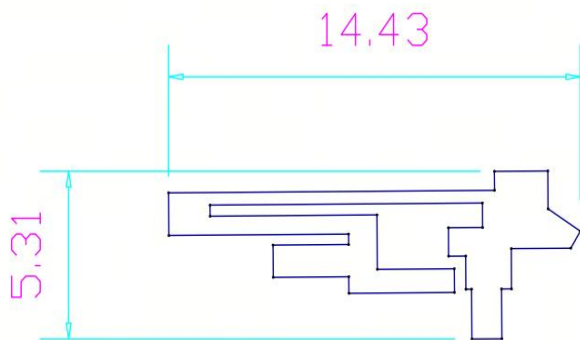
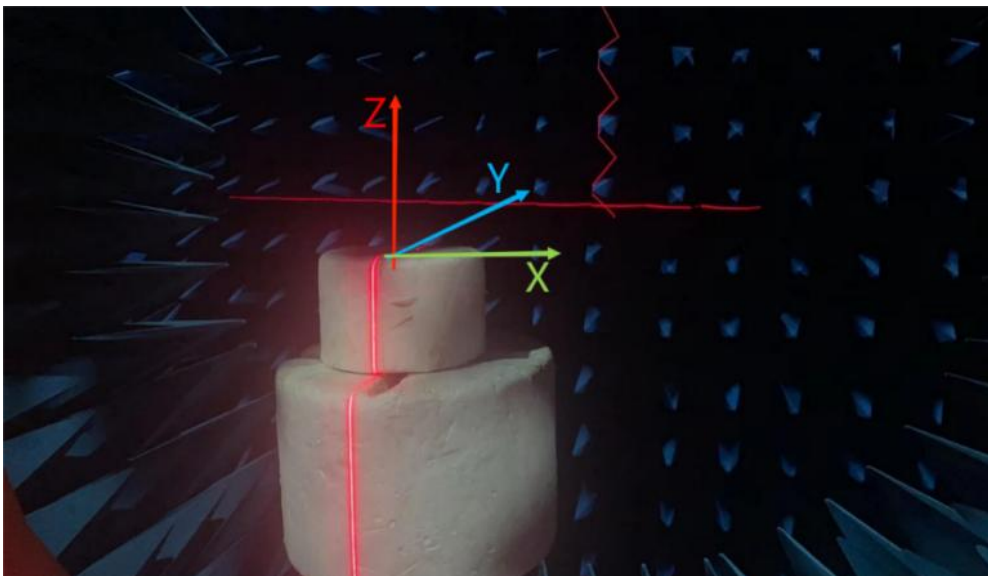


SN6BTDx 天线测试数据报告

一、天线及测试环境图

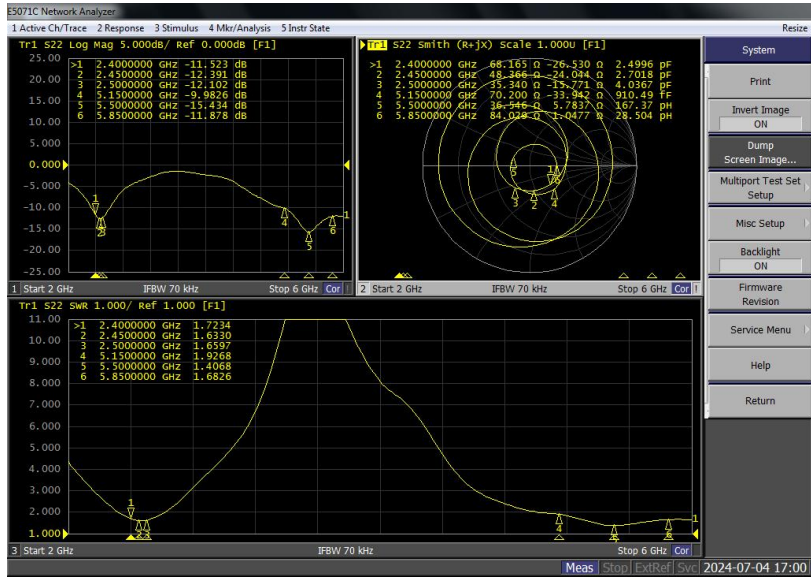


Manufacturer: Shenzhen SEI Robotics Co., Ltd.
ADD: 11F, Kangtai Innovation Plaza Building A, No. 222 Kefa Road, Yue Hai Sub-district, Nanshan District, Shenzhen, China 518057.
Model: PCB On-board Antenna



二、天线驻波比及隔离度

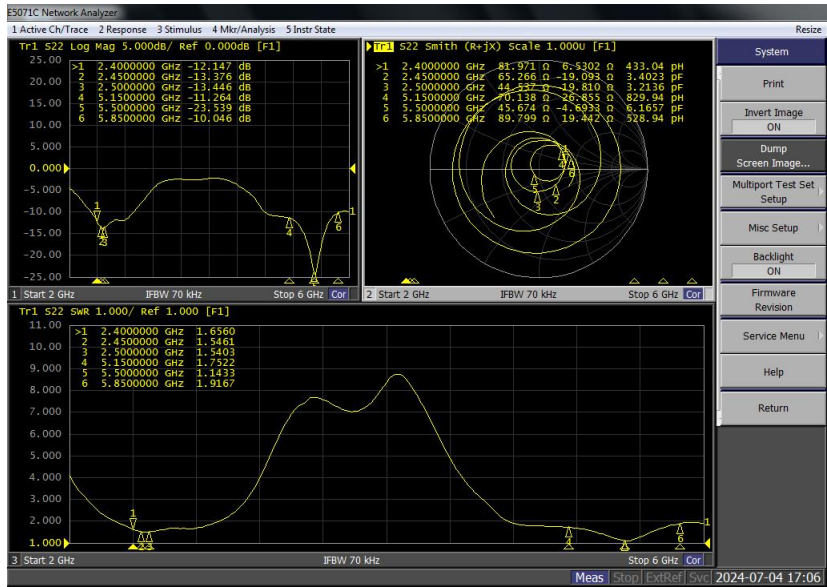
ANT1



V.S.W.R

Freq/GHz	2.4	2.45	2.5	5.15	5.5	5.85
VSWR	1.7	1.7	1.6	1.9	1.4	1.6

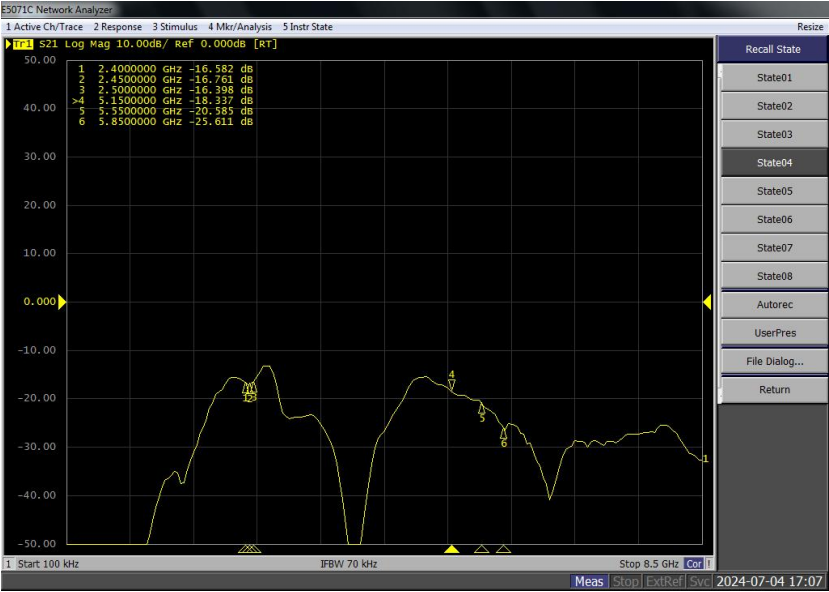
ANT2



V.S.W.R

Freq/GHz	2.4	2.45	2.5	5.15	5.5	5.85
VSWR	1.6	1.5	1.5	1.7	1.1	1.9

ANT1-ANT2



Freq/GHz	2.4	2.45	2.5	5.15	5.5	5.85
VSWR	-16.5	-16.7	-16.3	-18.3	-20.5	-25.6

三、无源效率

ANT1

Gain&Efficiency&PhaseCenter 增益、效率和相位中心						
Frequency 频率(MHz)	Gain 增益(dBi)	MinGain 最小增益 (dBi)	CO Gain 主极化最 大增益 (dBi)	CP Gain 交叉极化 最大增益 (dBi)	Efficiency 效率(dB)	Efficiency 效率(%)
2400.00	4.40	-16.19	3.84	3.56	-1.62	68.83
2410.00	4.46	-15.80	3.88	3.59	-1.78	66.35
2420.00	5.19	-15.48	4.40	4.23	-1.41	72.34
2430.00	4.65	-15.01	3.66	3.64	-1.83	65.57
2440.00	5.13	-14.44	3.98	3.94	-1.77	66.56
2450.00	5.36	-14.07	4.19	3.96	-1.45	71.64
2460.00	5.01	-14.14	3.73	3.46	-2.04	62.52
2470.00	5.18	-13.72	3.90	3.41	-1.67	68.10
2480.00	5.53	-12.65	4.23	3.67	-1.54	70.19
2490.00	5.33	-12.92	4.02	3.36	-1.67	68.06
2500.00	4.91	-12.66	3.60	2.96	-1.75	66.76
Gain&Efficiency&PhaseCenter 增益、效率和相位中心						
Frequency 频率(MHz)	Gain 增益(dBi)	MinGain 最小增益 (dBi)	CO Gain 主极化最 大增益 (dBi)	CP Gain 交叉极化 最大增益 (dBi)	Efficiency 效率(dB)	Efficiency 效率(%)
5150.00	3.51	-33.71	3.23	0.72	-2.56	55.44
5200.00	2.62	-28.67	2.26	0.47	-2.69	53.87
5250.00	2.69	-26.23	2.17	1.03	-2.74	53.20
5300.00	2.70	-23.57	2.10	0.86	-2.85	51.93
5350.00	3.15	-24.42	2.42	1.06	-2.50	56.22
5400.00	3.22	-21.68	2.02	1.51	-2.70	53.71
5450.00	4.32	-25.87	2.43	2.23	-2.60	54.98
5500.00	5.68	-25.19	3.68	3.48	-2.09	61.86
5550.00	5.44	-22.81	3.31	3.22	-2.55	55.61
5600.00	5.08	-26.12	2.92	2.74	-2.80	52.51
5650.00	6.41	-25.41	4.67	4.17	-2.45	56.84
5700.00	6.73	-37.62	4.77	4.31	-2.33	58.49

5750.00	7.05	-27.45	5.21	4.85	-2.39	57.66
5800.00	6.91	-31.87	4.99	4.96	-2.65	54.27
5850.00	6.28	-38.55	4.54	4.30	-2.77	52.86

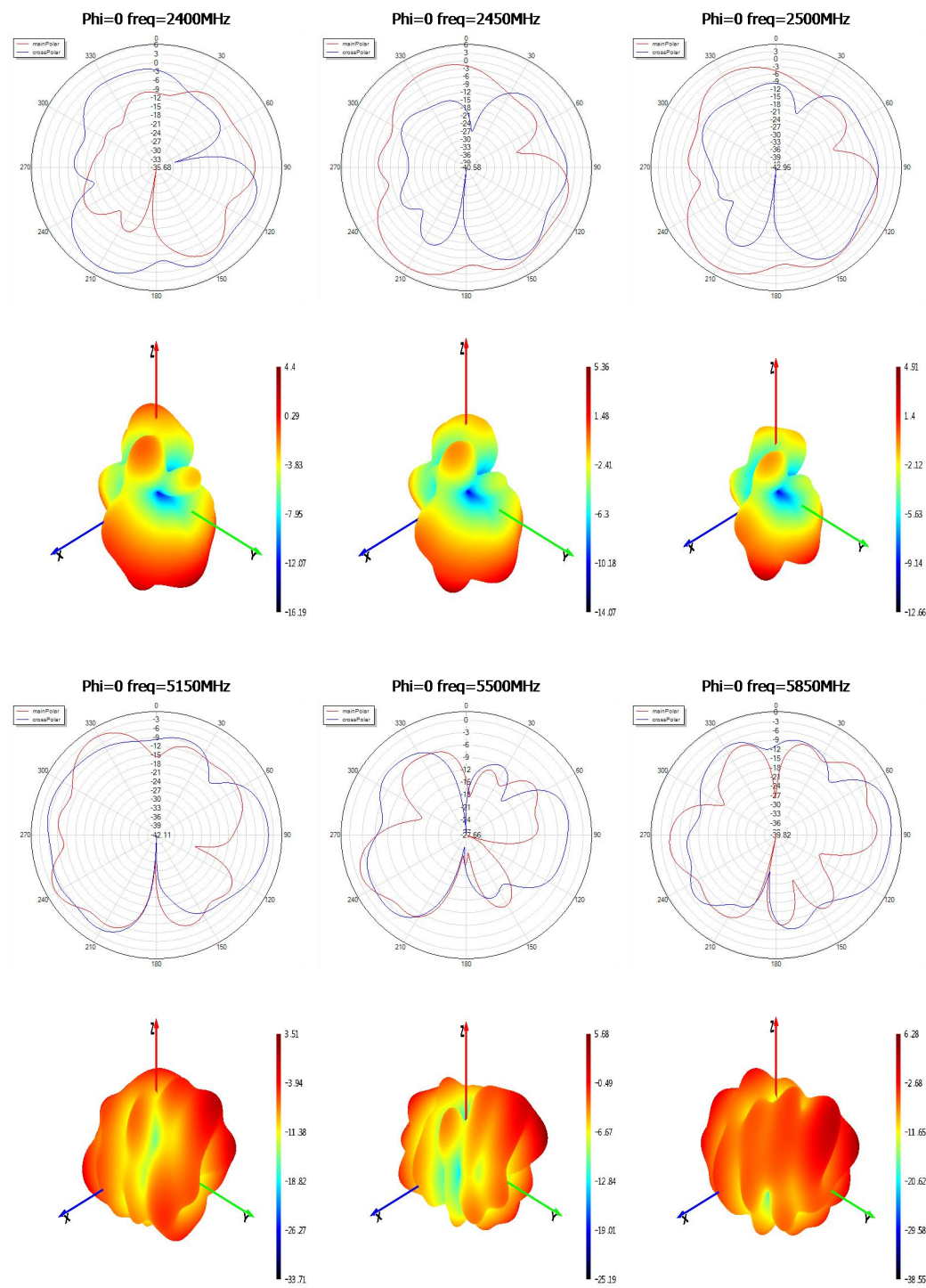
ANT2

Gain&Efficiency&PhaseCenter 增益、效率和相位中心						
Frequency 频率(MHz)	Gain 增益(dBi)	MinGain 最小增益 (dBi)	CO Gain 主极化最 大增益 (dBi)	CP Gain 交叉极化 最大增益 (dBi)	Efficiency 效率(dB)	Efficiency 效率(%)
2400.00	4.40	-16.19	3.84	3.56	-1.62	68.83
2410.00	4.46	-15.80	3.88	3.59	-1.78	66.35
2420.00	5.19	-15.48	4.40	4.23	-1.41	72.34
2430.00	4.65	-15.01	3.66	3.64	-1.83	65.57
2440.00	5.13	-14.44	3.98	3.94	-1.77	66.56
2450.00	5.36	-14.07	4.19	3.96	-1.45	71.64
2460.00	5.01	-14.14	3.73	3.46	-2.04	62.52
2470.00	5.18	-13.72	3.90	3.41	-1.67	68.10
2480.00	5.53	-12.65	4.23	3.67	-1.54	70.19
2490.00	5.33	-12.92	4.02	3.36	-1.67	68.06
2500.00	4.91	-12.66	3.60	2.96	-1.75	66.76
Gain&Efficiency&PhaseCenter 增益、效率和相位中心						
Frequency 频率(MHz)	Gain 增益(dBi)	MinGain 最小增益 (dBi)	CO Gain 主极化最 大增益 (dBi)	CP Gain 交叉极化 最大增益 (dBi)	Efficiency 效率(dB)	Efficiency 效率(%)
5150.00	3.51	-33.71	3.23	0.72	-2.56	55.44
5200.00	2.62	-28.67	2.26	0.47	-2.77	52.87
5250.00	2.69	-26.23	2.17	1.03	-2.74	53.20
5300.00	2.70	-23.57	2.10	0.86	-2.85	51.93
5350.00	3.15	-24.42	2.42	1.06	-2.50	56.22
5400.00	3.22	-21.68	2.02	1.51	-2.70	53.71
5450.00	4.32	-25.87	2.43	2.23	-2.60	54.98
5500.00	5.68	-25.19	3.68	3.48	-2.09	61.86
5550.00	5.44	-22.81	3.31	3.22	-2.55	55.61

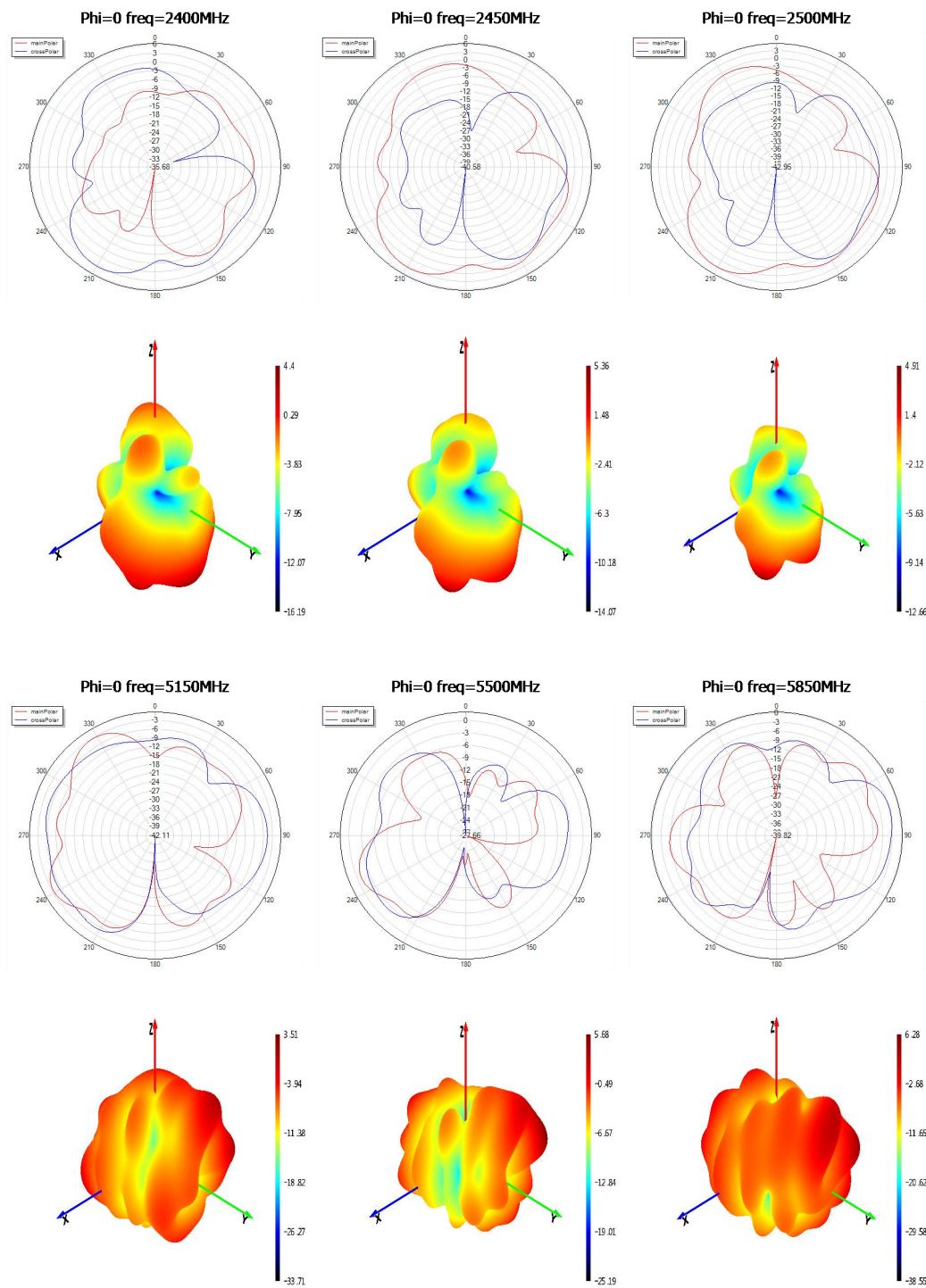
5600.00	5.08	-26.12	2.92	2.74	-2.72	53.51
5650.00	6.41	-25.41	4.67	4.17	-2.45	56.84
5700.00	6.73	-37.62	4.77	4.31	-2.33	58.49
5750.00	7.05	-27.45	5.21	4.85	-2.39	57.66
5800.00	6.91	-31.87	4.99	4.96	-2.65	54.27
5850.00	6.28	-38.55	4.54	4.30	-2.69	53.86

四、2D3D 方向图

ANT1



ANT2



五、有源数据

Test	Wifi 2G TRP				Test	Wifi 2G TIS		
CH	1	6	13		CH	1	6	13
Frequency (MHz)	2412	2437	2472		Frequency (MHz)	2412	2437	2472
TRP(dBm)	10.9	11.09	12.52		TIS(dBm)	-80.14	-80.05	-79.17

Test mode: 802.11a 54Mbps BW 20M

Test	Wifi 5G TRP				Test	Wifi 5G TIS		
CH	36	100	165		CH	36	100	165
Frequency (MHz)	5180	5500	5825		Frequency (MHz)	5180	5500	5825
TRP(dBm)	14.44	11.61	12.07		TIS(dBm)	-76.85	-77.77	-78.16