



# Antenna specification sheet

Customer:	MINAMI
Project Name:	Q650
Antenna name:	BT antenna
Antenna type:	Dipole
Antenna manufacturer name:	Shenzhen Cicent Communication Technology Co., Ltd.
Antenna manufacturer address:	505-506 , ABlock, Donglian Building, Chuangye 2 road, Baoan District, Shenzhen, Guangdong, P. R china
Version number:	V1.0
Date:	2025.03.10



# Catalogue

I: Passive Test Report ..... 3  
II: Antenna darkroom data..... 8  
III: Structural diagram file..... 9

Change Record Column			
Date of Compilation/Change	Reason for change	Changes	version
2025.03.10	Initial release	Initial release	V1.0

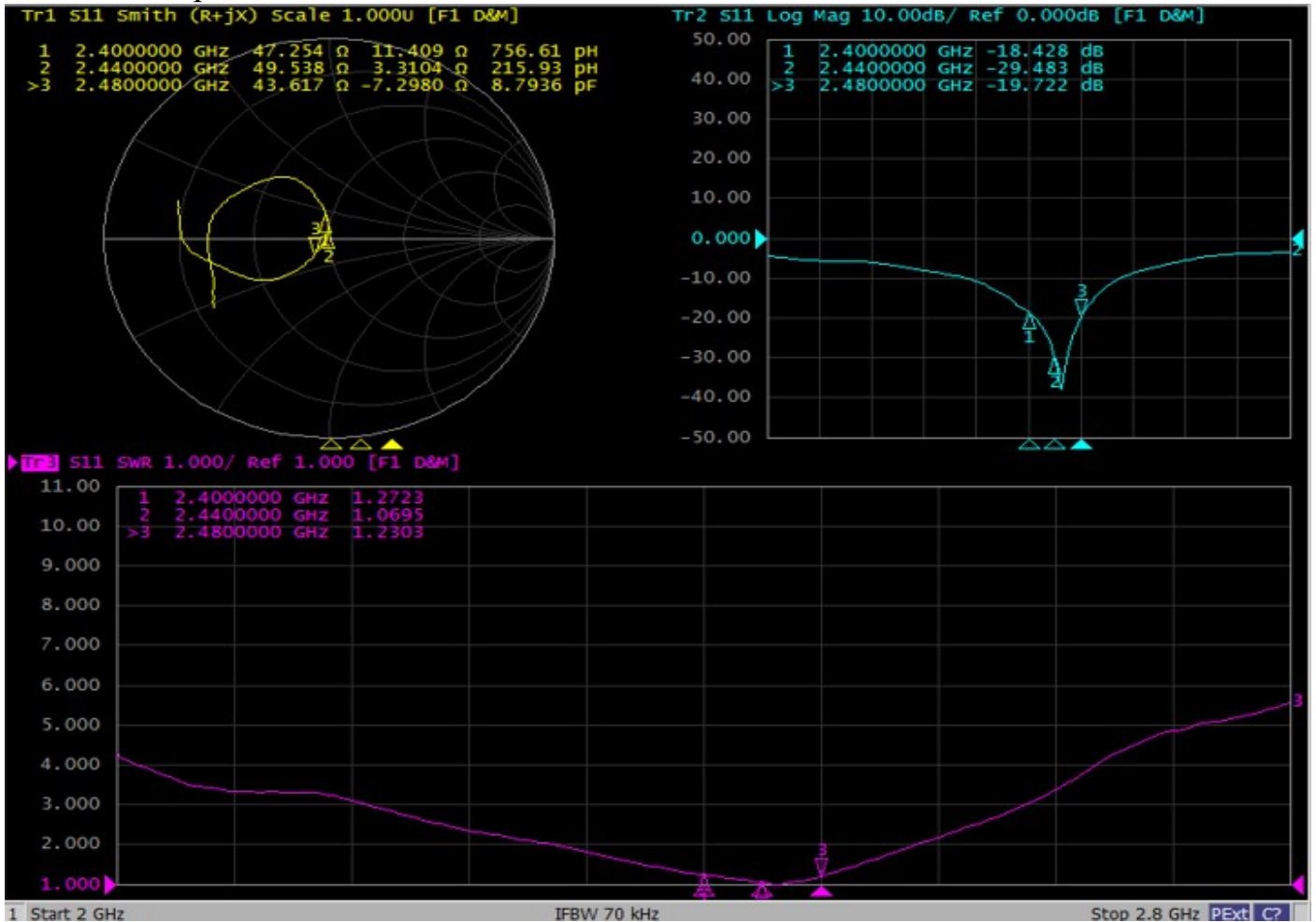


I: Passive Test Report



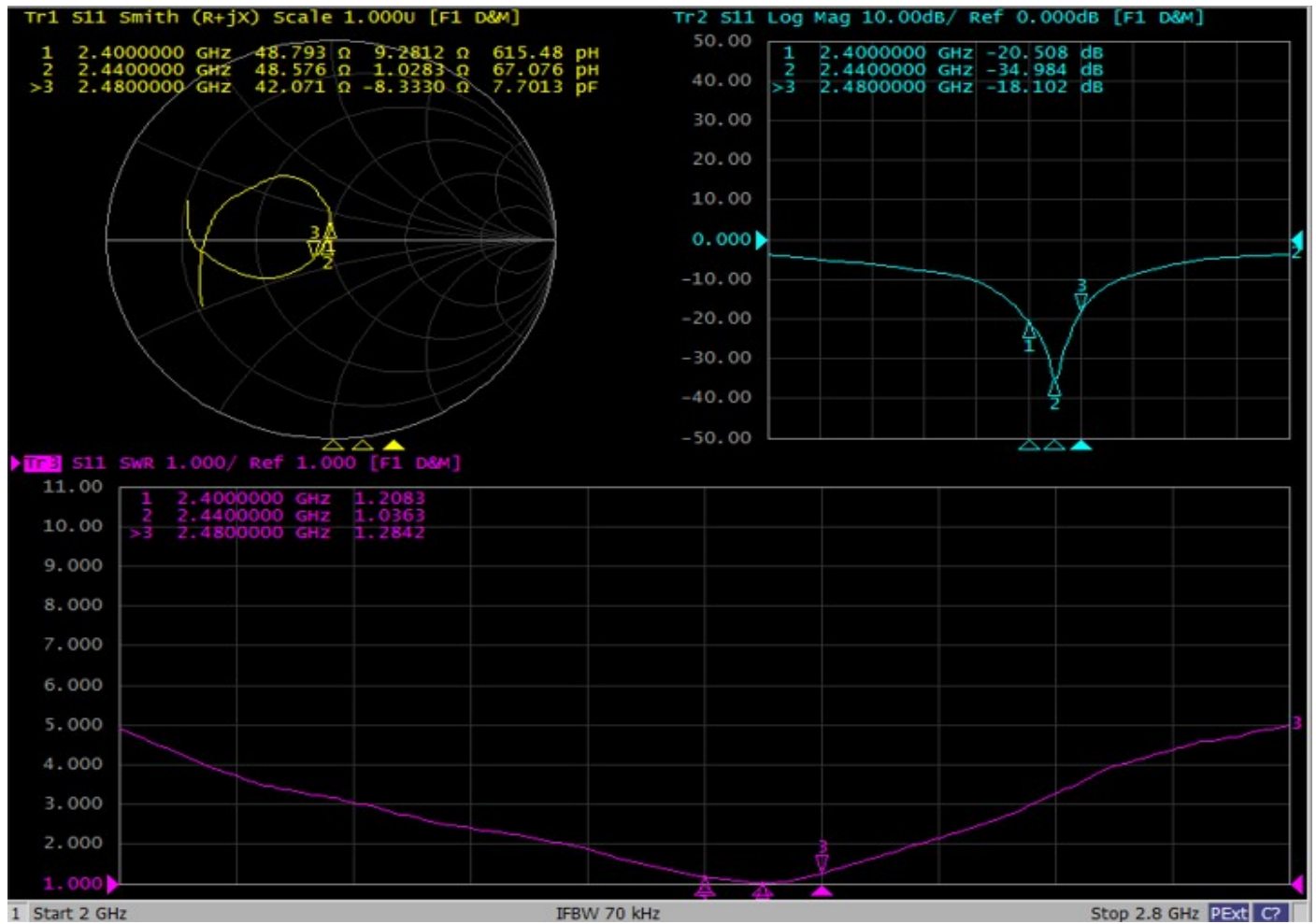
Angilent E5071C

Antenna S11 parameters: (Free Space)





Antenna S11 parameters: (Phantom)





Antenna efficiency and gain:(Free Space)

Free Space			
Frequency (MHz)	Gain (dBi)	Efficiency (dB )	Efficiency (%)
2400	1.54	-2.74	53.25
2410	1.72	-2.64	54.47
2420	1.66	-2.81	52.36
2430	1.63	-3.00	50.08
2440	1.86	-2.90	51.27
2450	1.89	-3.03	49.82
2460	2.16	-2.83	52.16
2470	2.30	-2.67	54.06
2480	2.04	-2.96	50.59
AVG	1.87	-2.84	52.01

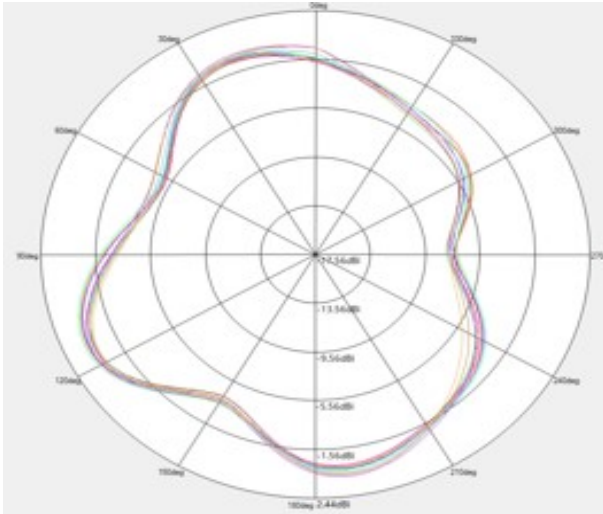
Antenna efficiency and gain:( Phantom)

Phantom			
Frequency (MHz)	Gain (dBi)	Efficiency (dB )	Efficiency (%)
2400	1.93	-4.36	36.65
2410	1.92	-4.28	37.36
2420	1.72	-4.42	36.18
2430	1.53	-4.56	34.98
2440	1.60	-4.42	36.18
2450	1.47	-4.49	35.59
2460	1.67	-4.22	37.80
2470	1.72	-4.02	39.59
2480	1.44	-4.26	37.53
AVG	1.67	-4.34	36.87

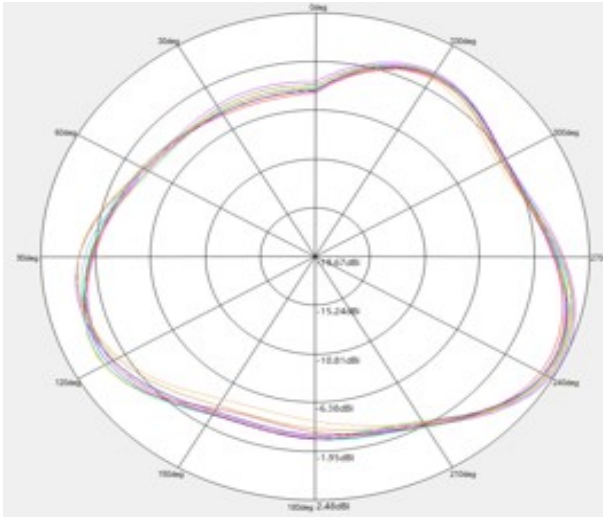


Antenna 2D directional diagram: (Free Space)

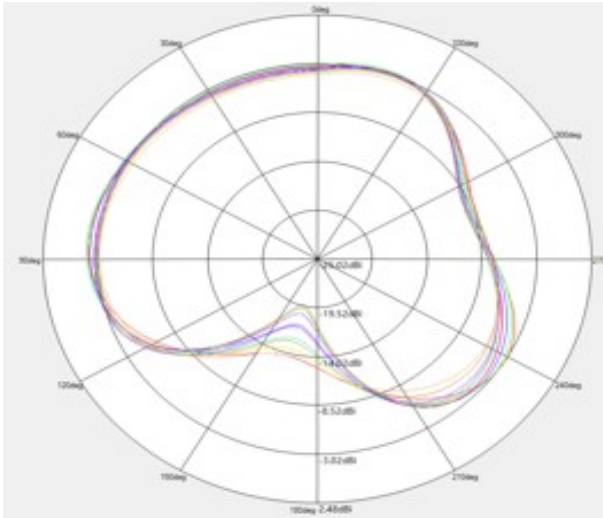
Theta=90.00deg



Phi=0.00deg



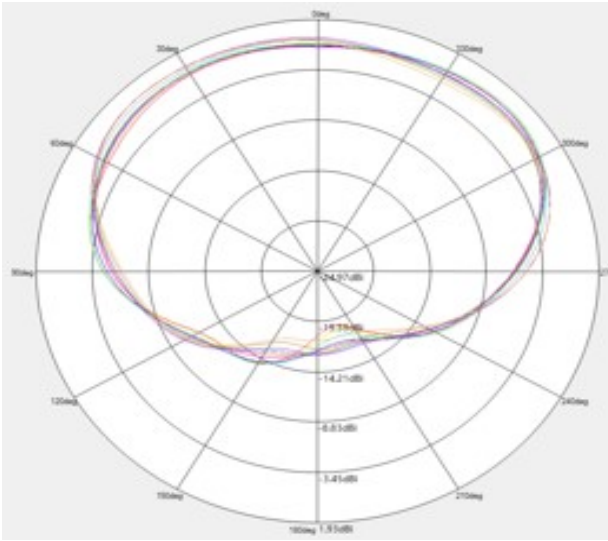
Phi=90.00deg



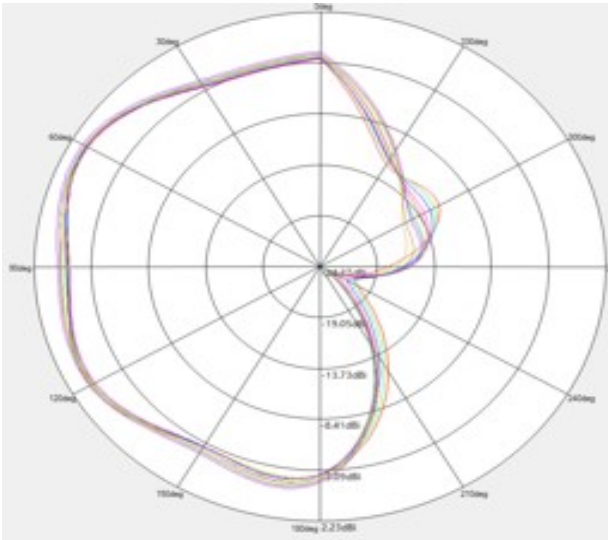


Antenna 2D directional diagram: (Phantom)

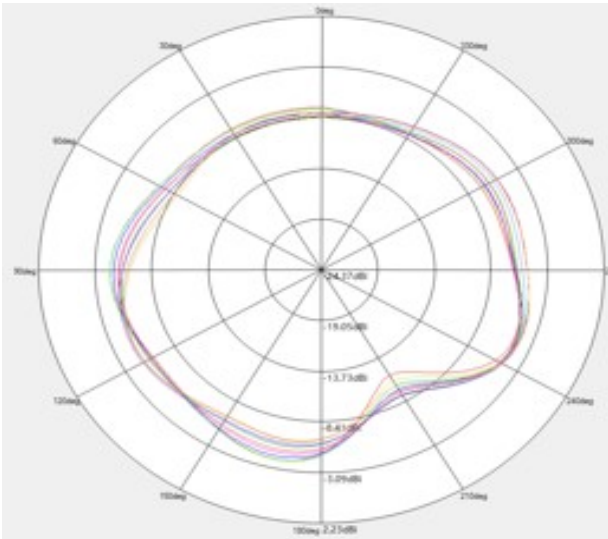
Theta=90.00deg



Phi=0.00deg



Phi=90.00deg

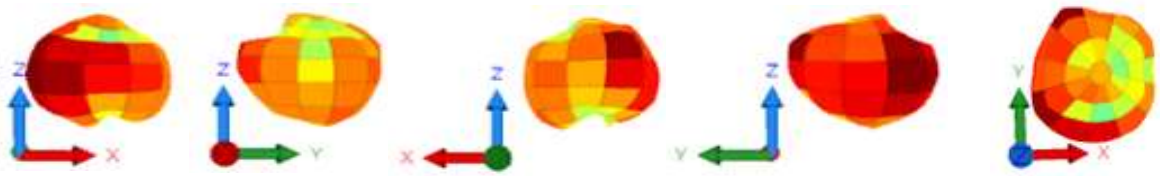




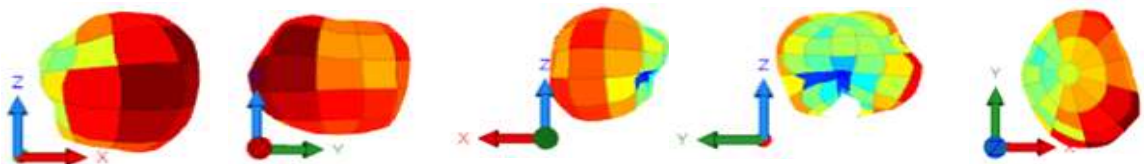
II: Antenna darkroom data

		FS OTA	
	Channel	TRP (dBm)	TIS (dBm)
BT	CH 0	6.7	-92.1
	CH 39	7.4	-93.5
	CH 78	7.0	-92.5
		Phantom OTA	
		TRP (dBm)	TIS (dBm)
		4.0	-90.4
		5.0	-91.3
		5.0	-91.4

Free Space



Phantom



OTA Standard Chamber

