



Antenna Part Specification

Project name:	GW110 Dongle
Antenna material:	FPC antenna
Antenna type:	PIFA antenna
Version:	V1.0
Date:	2023.03.28



Contents

I: The report of passive data	3
II: 3D Active test report of antenna.....	6
III: Matching circuit	6
IV: Schematic diagram of placement positions for darkroom testing	7
V: Prototype status description.....	8
VI: Structure file.....	9

Change record			
Compile / change date	Reason for change	Changed content	Version
2023.03.28	First edition	First edition	V1.0

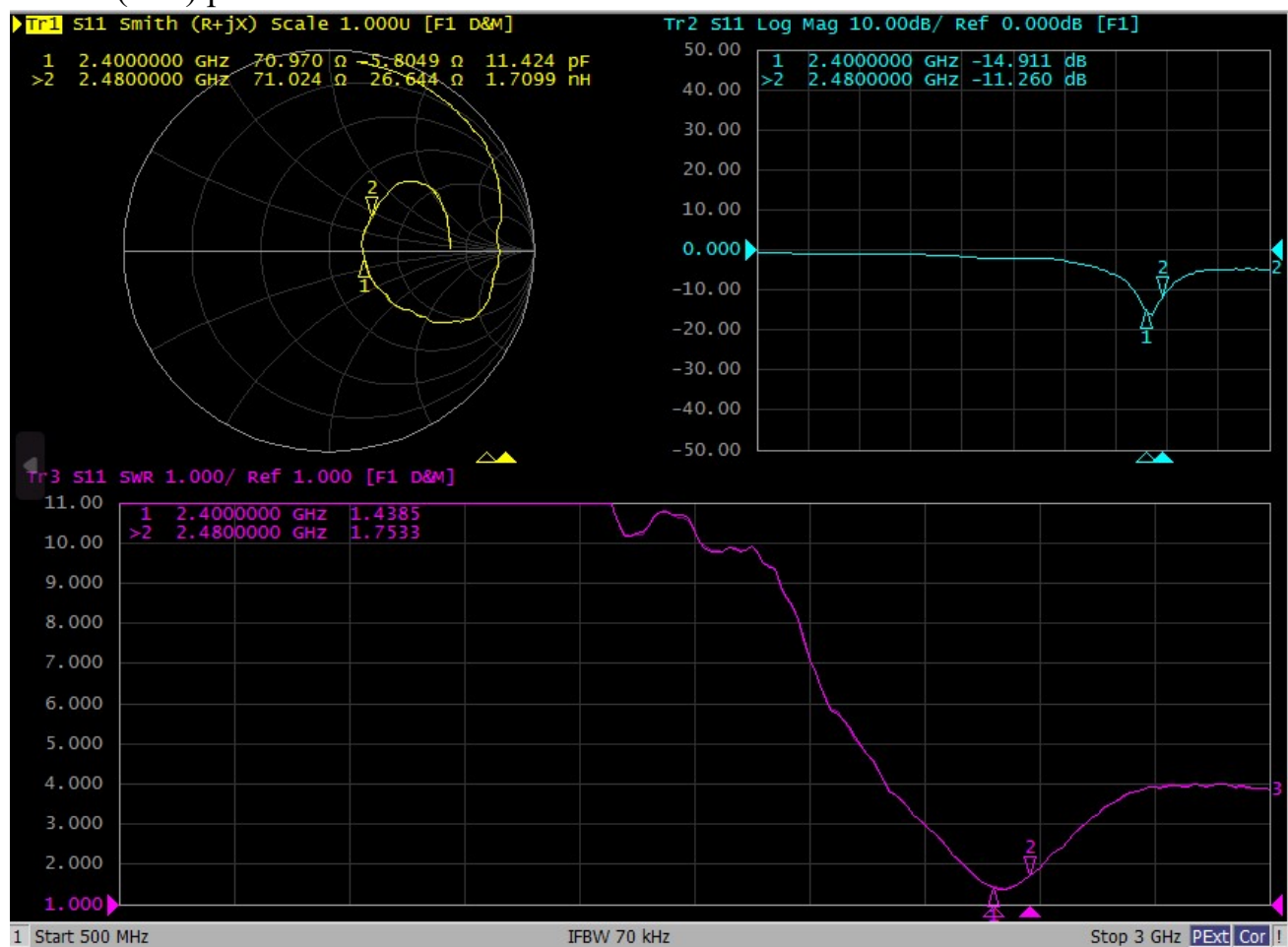


I: The report of passive data



Angilent E5071C

VSWR(S11) parameter:

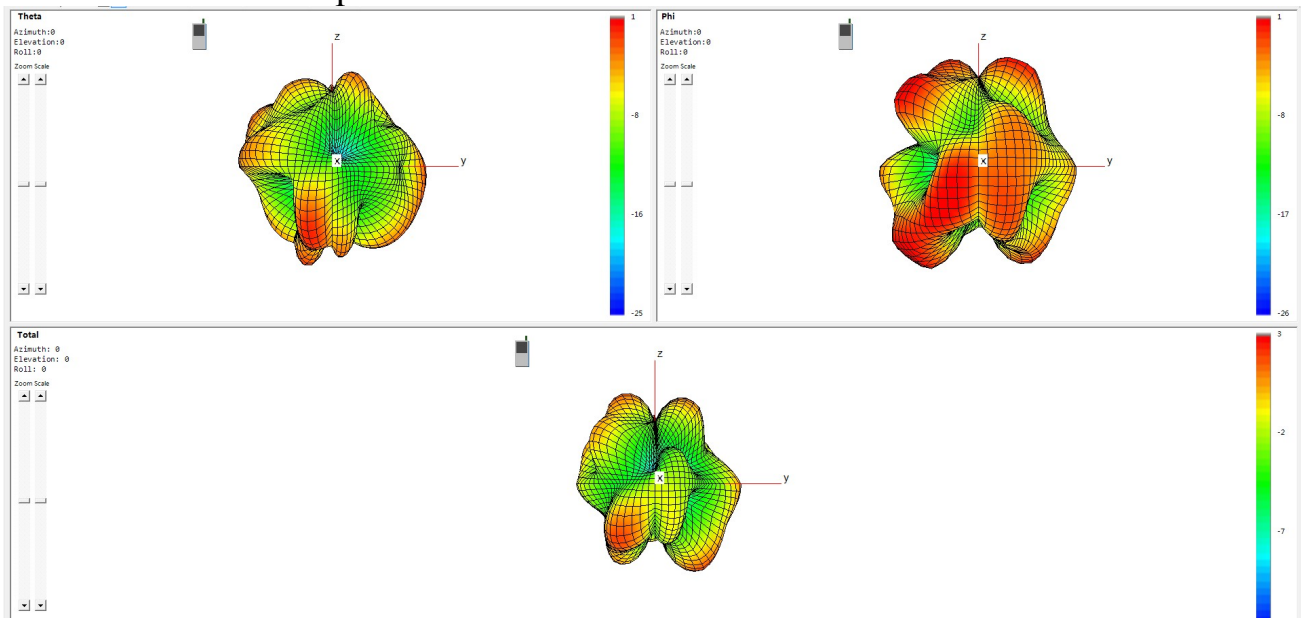




Efficiency:

2400-2480MHZ			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	63.7%	-1.96	2.36
2410	61.2%	-2.13	2.19
2420	58.5%	-2.33	2.13
2430	58.9%	-2.30	2.08
2440	56.5%	-2.48	1.90
2450	58.9%	-2.30	1.93
2460	61.0%	-2.15	1.98
2470	59.1%	-2.28	1.64
2480	58.5%	-2.33	1.47
Average value	59.6%	-2.25	1.96

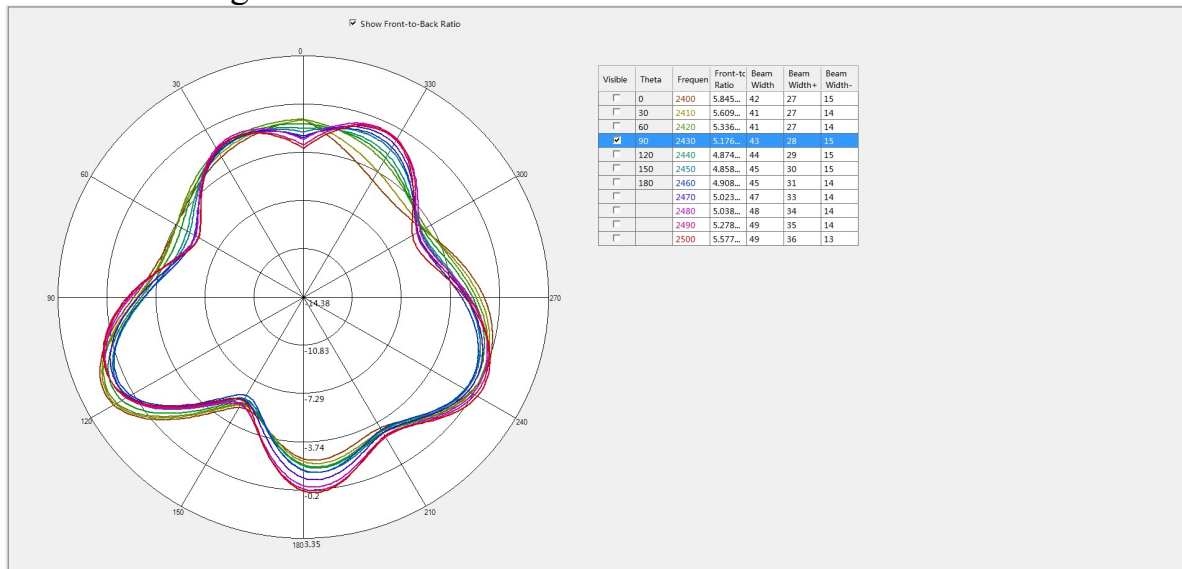
3D Antenna radiation pattern:



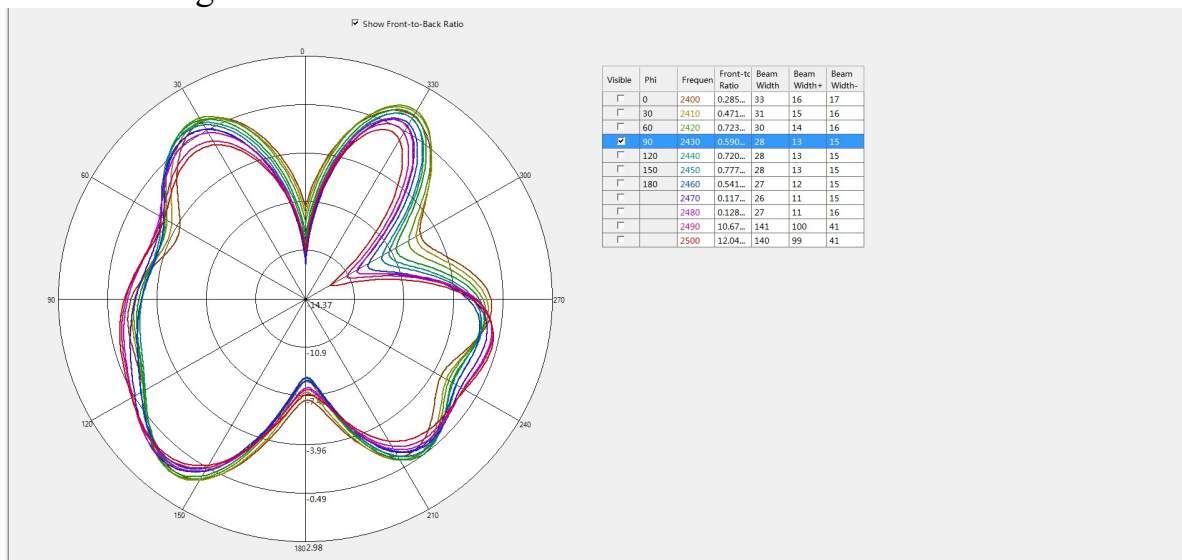


Antenna radiation pattern:

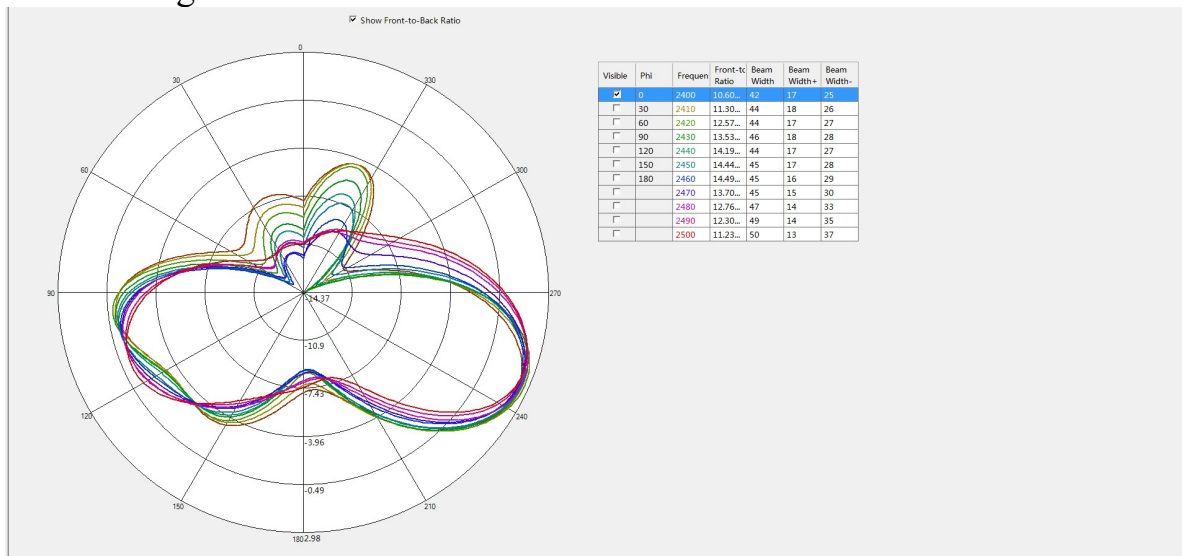
Theta=90.00deg



Phi=90.00deg



Phi=0.00deg





II: 3D Active test report of antenna

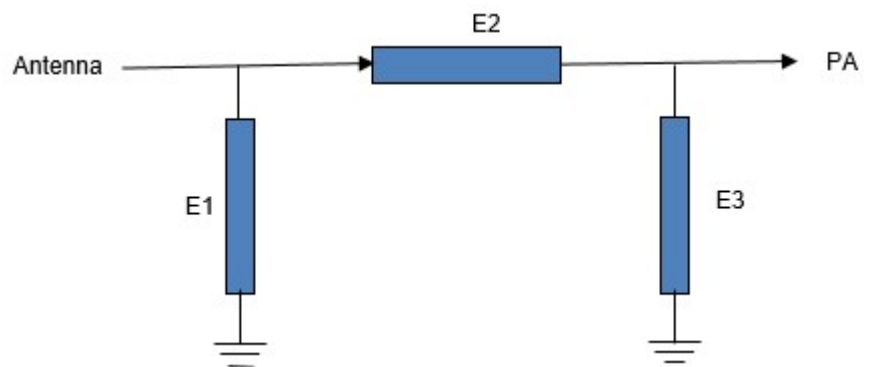
	Channel	TRP (dBm)	TIS (dBm)
BT	CH 0	7.8	-93.8
	CH 39	8.1	-94.7
	CH 78	7.9	-94.3



OTA Standard Chamber

III: Matching circuit

Element	Value
E1(0201)	N/A
E2(0201)	3NH
E3(0201)	N/A





VI: Structure file

