



Antenna Part Specification

Project name:	TWS-2126
Antenna name:	L-BT antenna
Antenna type:	dipole
Version:	V1.0
Date:	2026.3.3
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,A Block,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china



Contents

I: The report of passive data	3
II: 3D Active test report of antenna	9
III: Antenna matching circuit	9
IV: Antenna structure diagram file	10

Change record			
Compile / change date	Reason for change	Changed content	Version
2026.3.3	First edition	First edition	V1.0

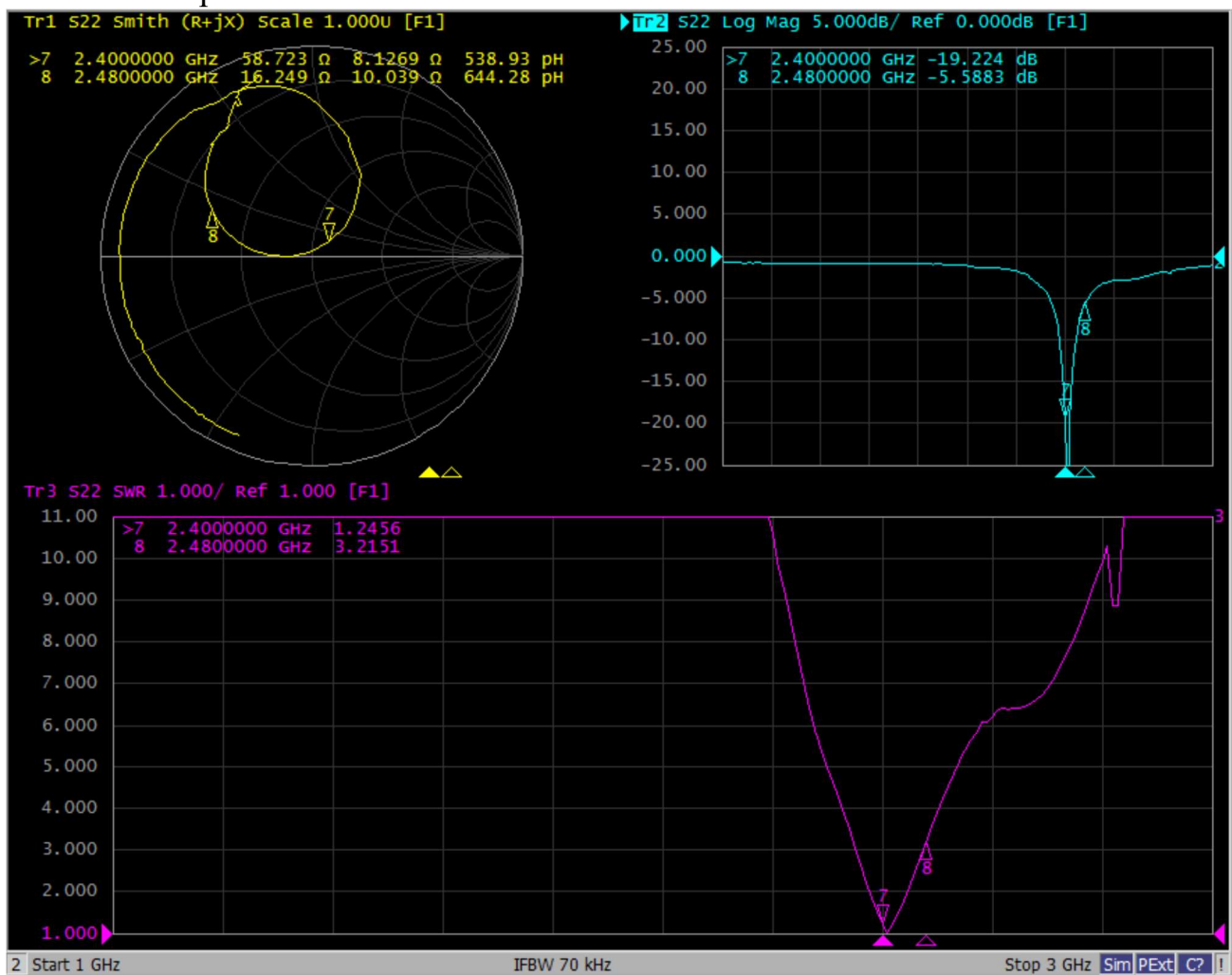


I: The report of passive data



Angilent E5071C

Antenna S11 parameter: (free)

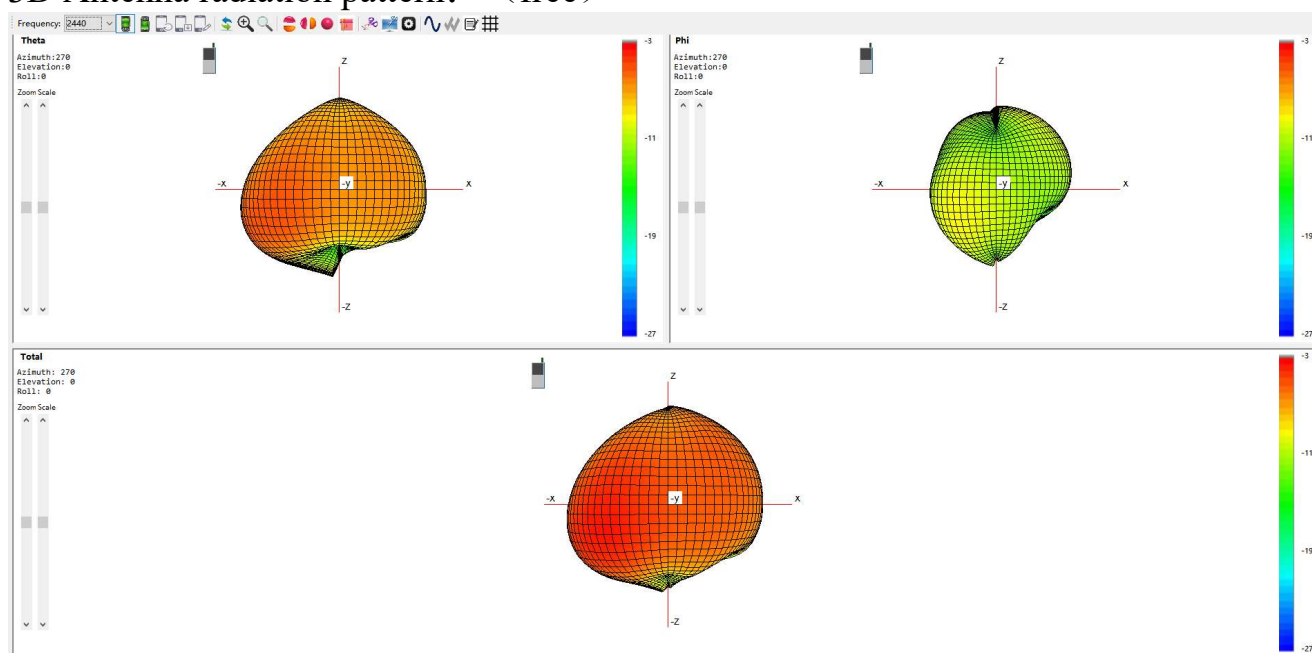




Antenna efficiency and gain: (free)

2400-2480 MHz			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	19.5	-7.1	-4.2
2410	20.0	-7.0	-4.0
2420	20.4	-6.9	-3.8
2430	20.2	-6.9	-3.8
2440	20.1	-7.0	-3.7
2450	19.8	-7.0	-3.7
2460	19.3	-7.2	-3.8
2470	18.1	-7.4	-4.1
2480	16.9	-7.7	-4.4
average	19.4	-7.1	-3.9

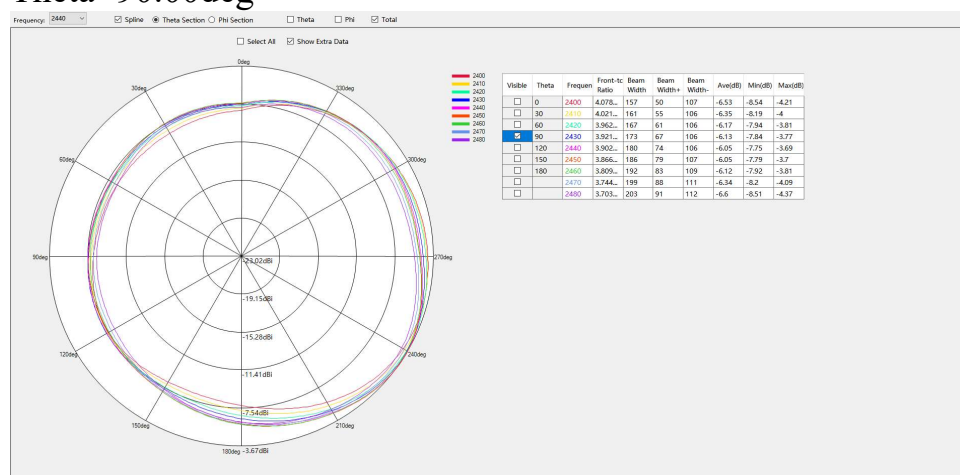
3D Antenna radiation pattern: (free)



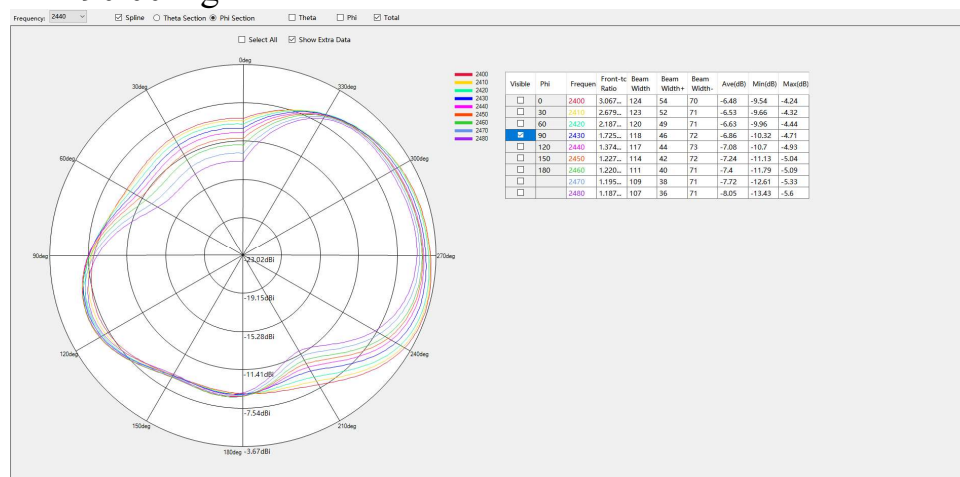


2D Antenna radiation pattern: (free)

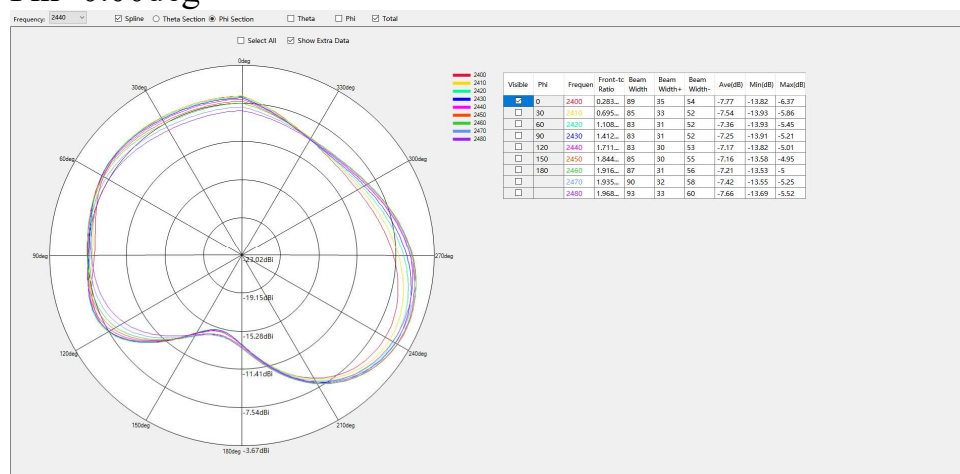
Theta=90.00deg



Phi=90.00deg

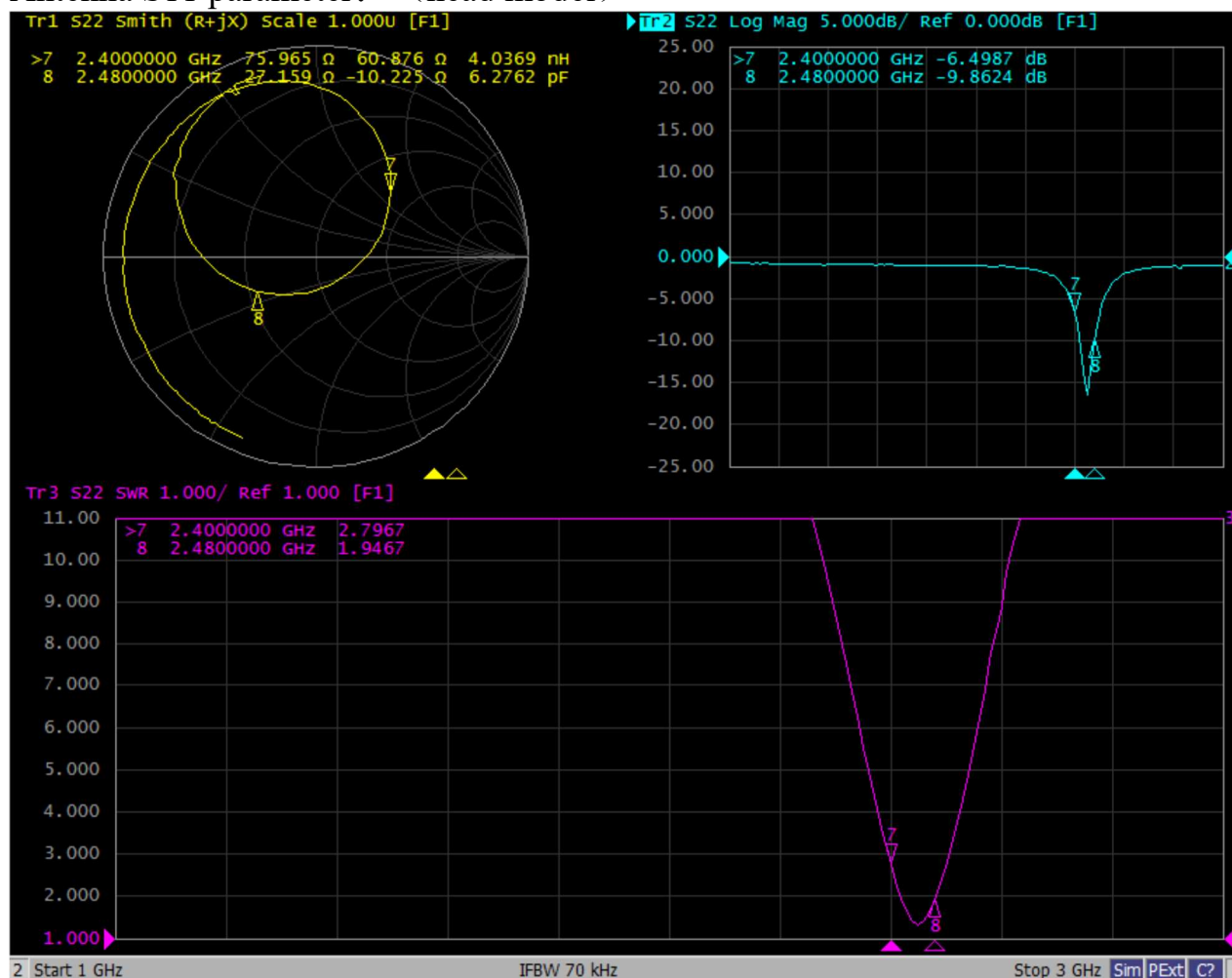


Phi=0.00deg





Antenna S11 parameter: (head model)

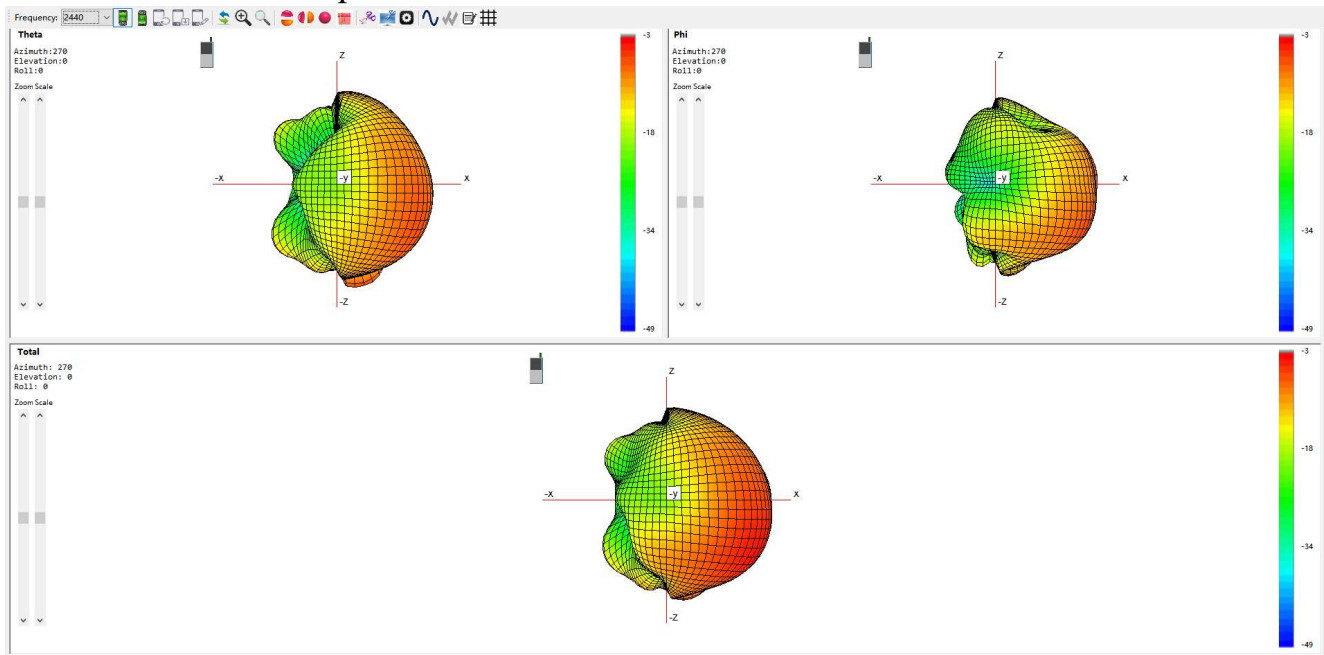


Antenna efficiency and gain: (head model)

2400-2480 MHz			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	5.3	-12.8	-4.5
2410	5.6	-12.5	-4.2
2420	6.0	-12.3	-4.0
2430	6.2	-12.1	-3.9
2440	6.4	-12.0	-3.8
2450	6.5	-11.9	-3.6
2460	6.7	-11.8	-3.6
2470	6.8	-11.7	-3.5
2480	7.0	-11.5	-3.4
average	6.3	-12.1	-3.8

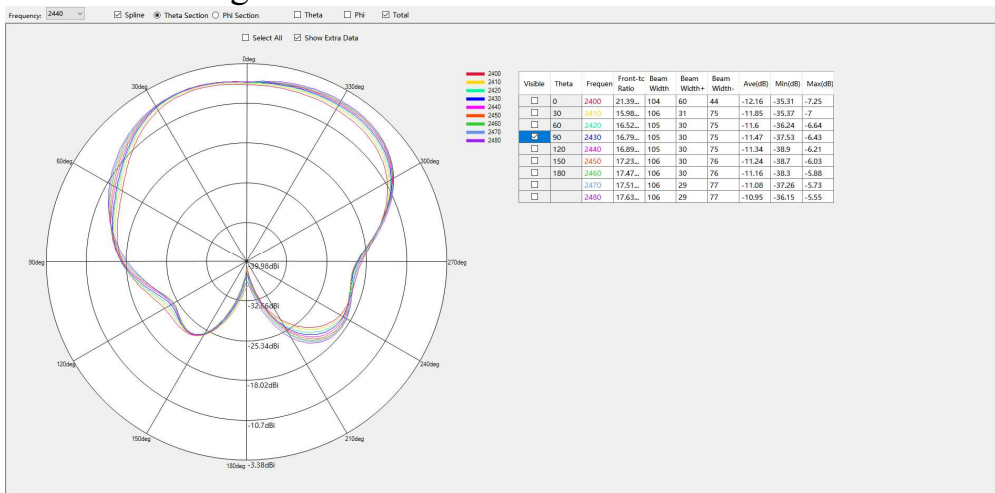


3D Antenna radiation pattern: (head model)



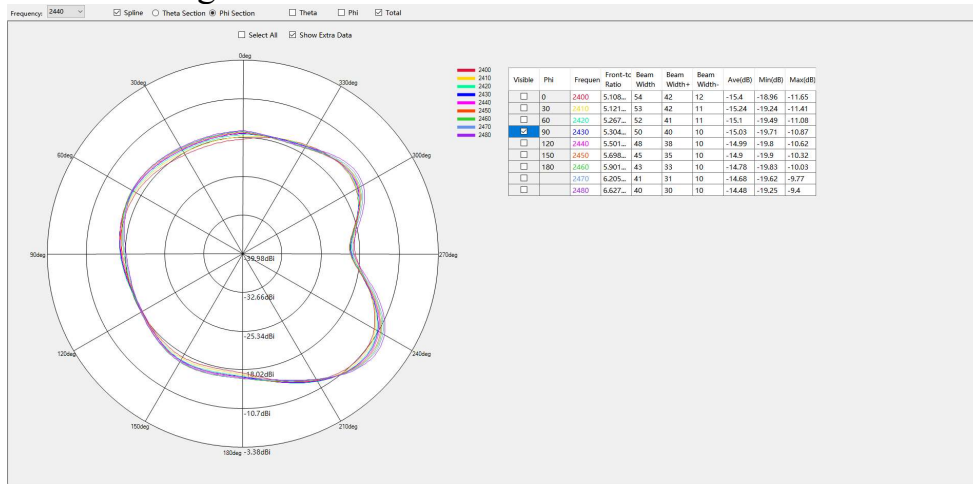
2D Antenna radiation pattern: (head model)

Theta=90.00deg

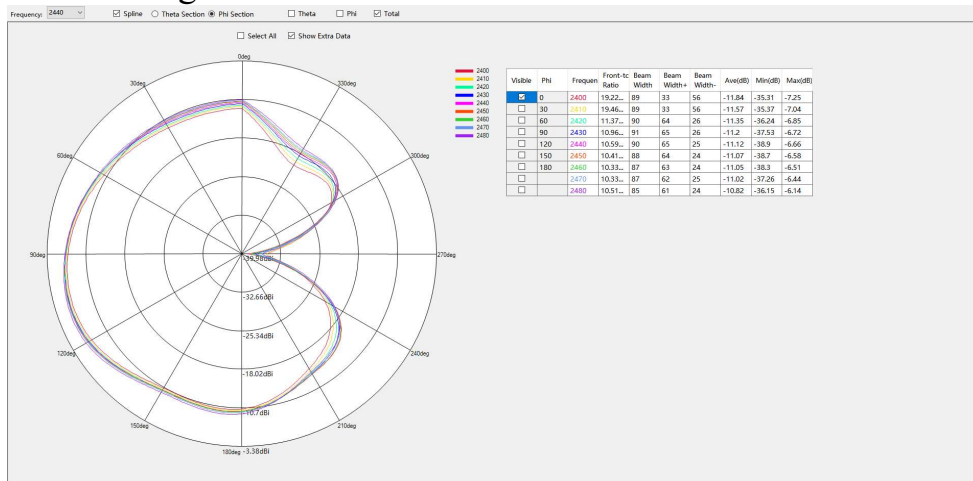




Phi=90.00deg



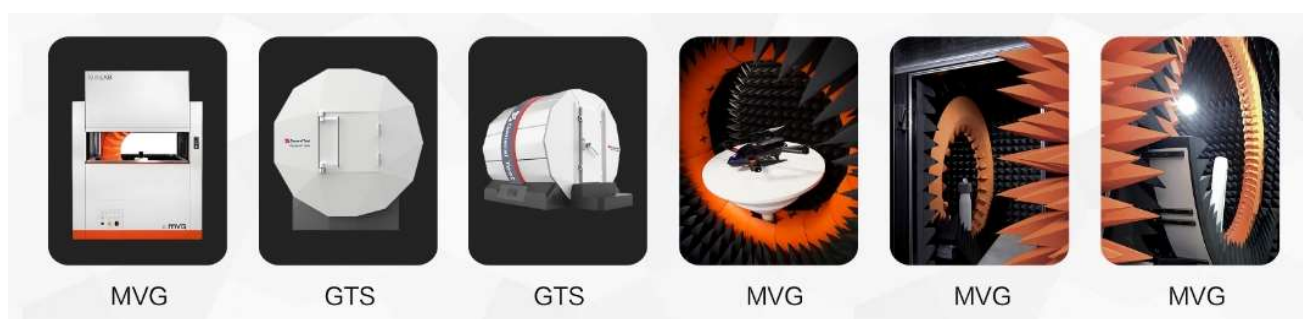
Phi=0.00deg





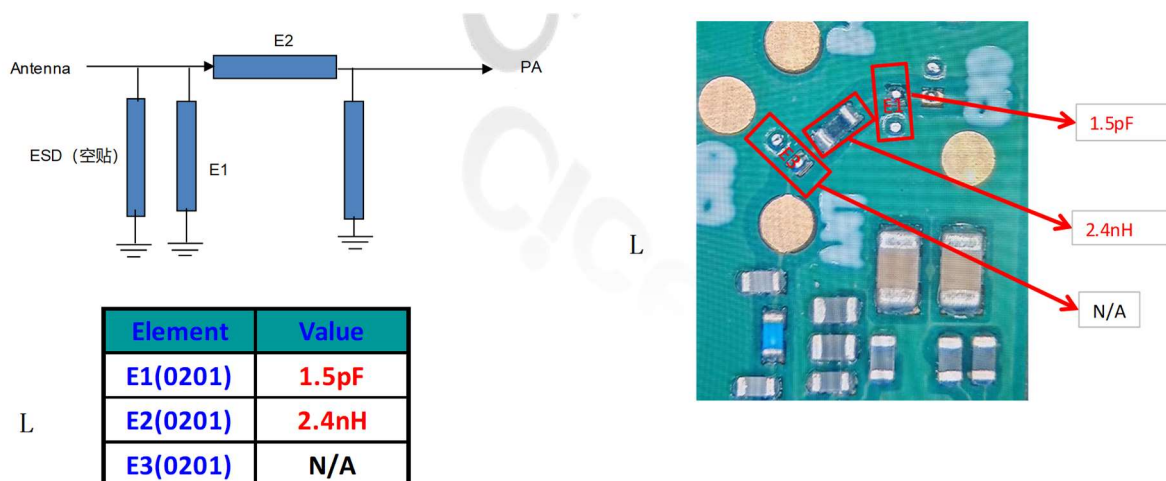
II: 3D Active test report of antenna

		free		head model	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
L	CH 0	5.6	-89.1	-0.8	-83.0
	CH 39	5.7	-90.1	1.2	-84.0
	CH 78	4.6	-89.9	-0.3	-83.6



OTA Standard Chamber

III: Antenna matching circuit





IV: Antenna structure diagram file

