



Antenna Part Specification

Project name:	Marklevin
Material category:	BT antenna
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
Version:	V1.0
Date:	2025.09.08



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Change record			
Compile / change date	Reason for change	Changed content	Version
2025.09.08	First edition	First edition	V1.0

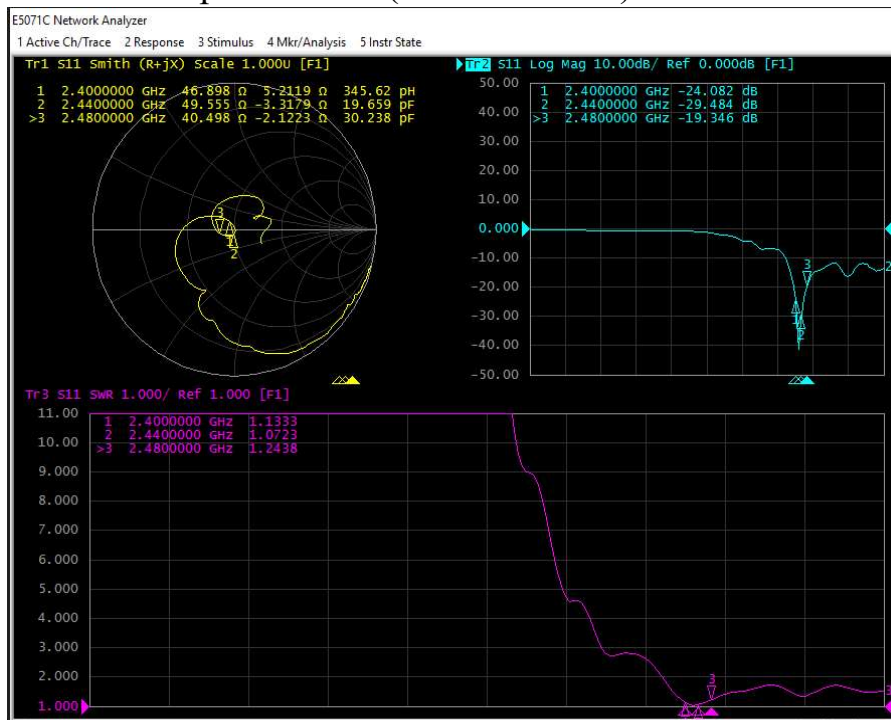


I: The report of passive data



Angilent E5071C

antenna S11 parameter: (Left Ear - Free)

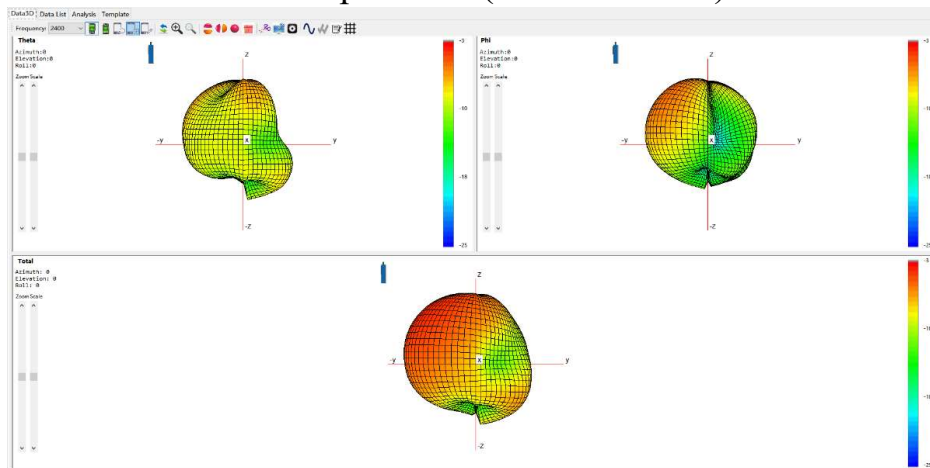




Efficiency: (Left Ear - Free)

2400-2480 MHz			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-4.0	-7.6	17.3
2410	-3.8	-7.4	18.1
2420	-3.7	-7.3	18.5
2430	-3.7	-7.4	18.3
2440	-3.9	-7.6	17.6
2450	-4.2	-7.7	16.9
2460	-4.4	-7.9	16.1
2470	-4.7	-8.2	15.0
2480	-4.8	-8.4	14.5
AVG	-4.14	-7.73	16.91

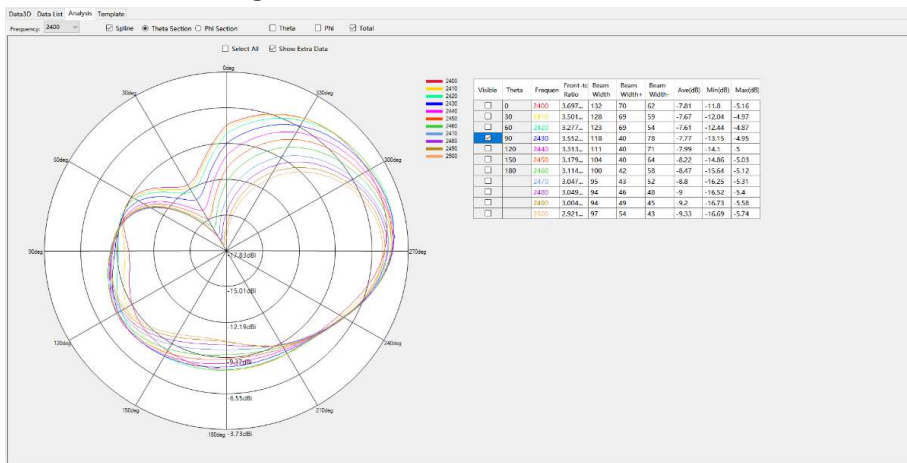
3D Antenna radiation pattern: (Left Ear - Free)



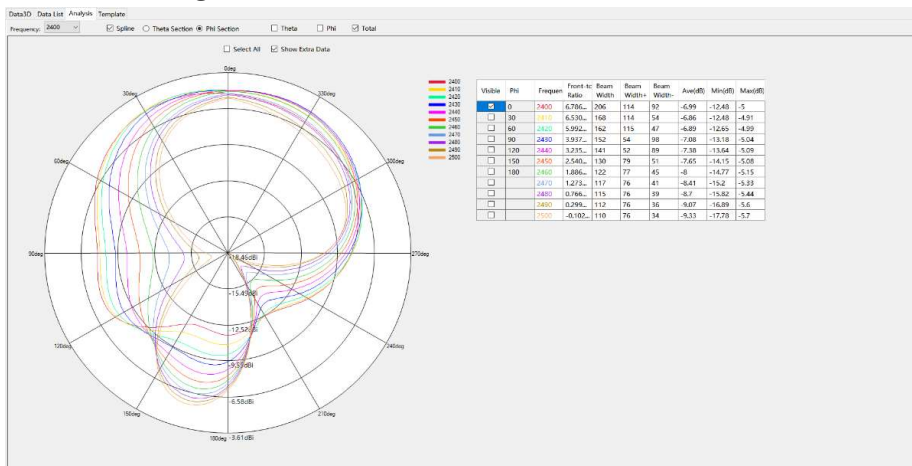


2D Antenna radiation pattern: (Left Ear - Free)

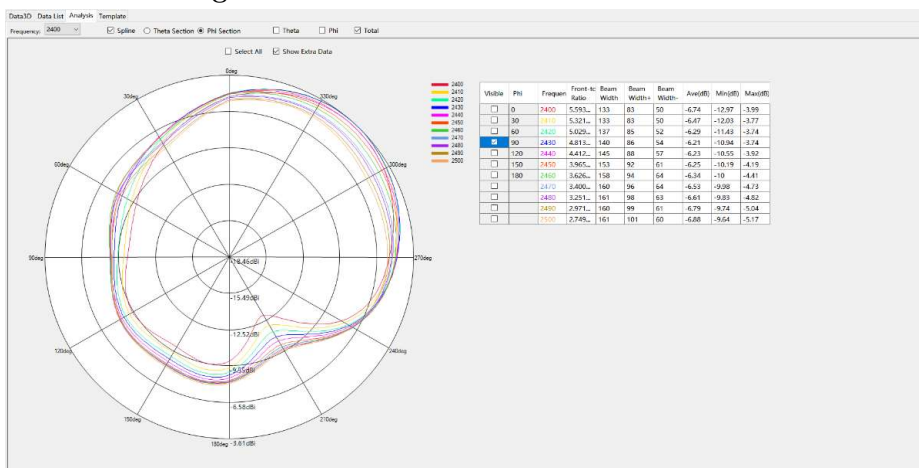
Theta=90.00deg



Phi=0.00deg

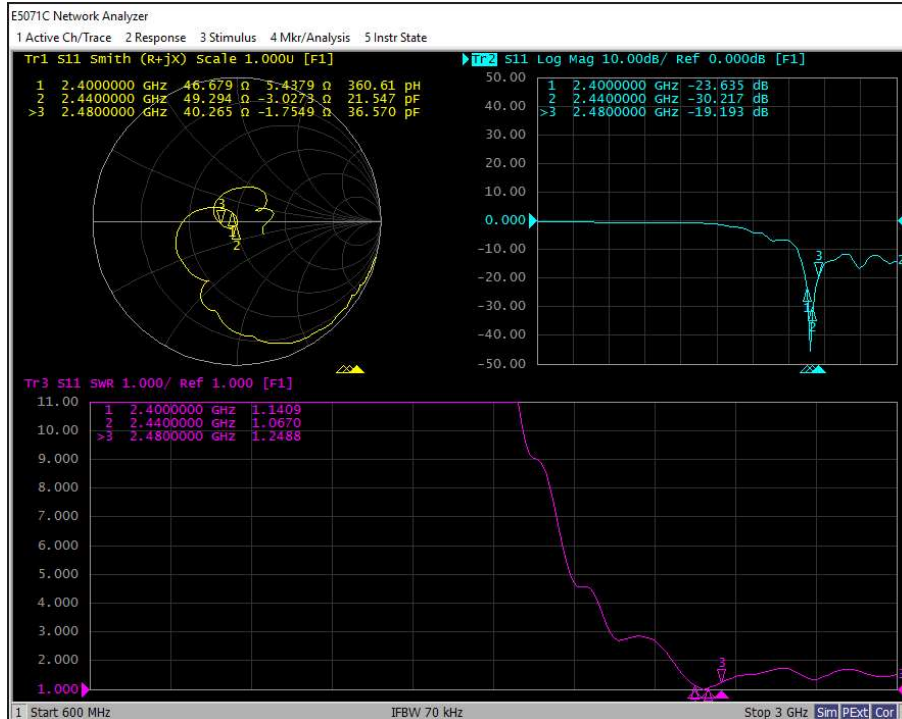


Phi=90.00deg





antenna S11 parameter: (Right Ear - Free)

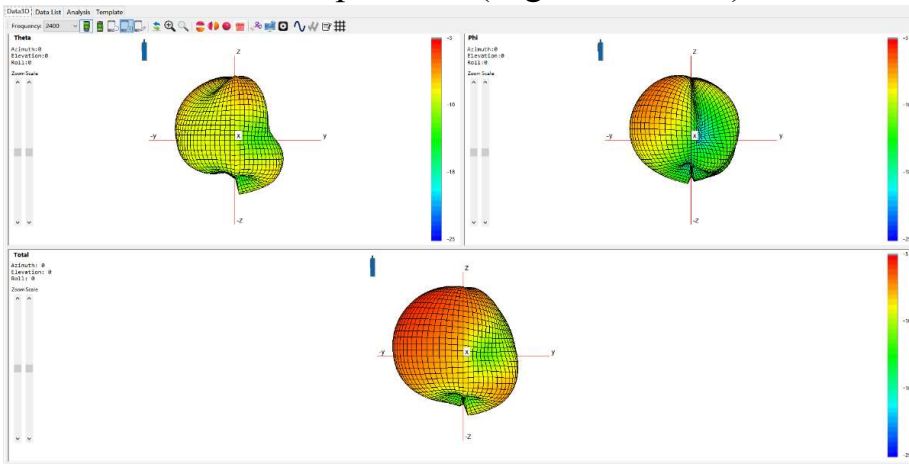


Efficiency: (Right Ear - Free)

2400-2480 MHz			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-4.0	-7.6	17.3
2410	-3.8	-7.4	18.1
2420	-3.7	-7.3	18.5
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2440	-3.9	-7.6	17.6
2450	-4.2	-7.7	16.9
2460	-4.4	-7.9	16.1
2470	-4.7	-8.2	15.0
2480	-4.8	-8.4	14.5
AVG	-4.14	-7.73	16.91

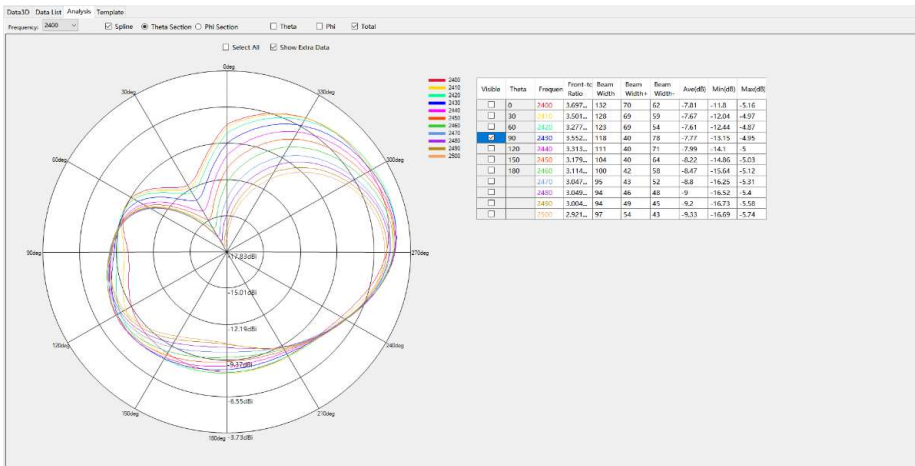


3D Antenna radiation pattern: (Right Ear - Free)

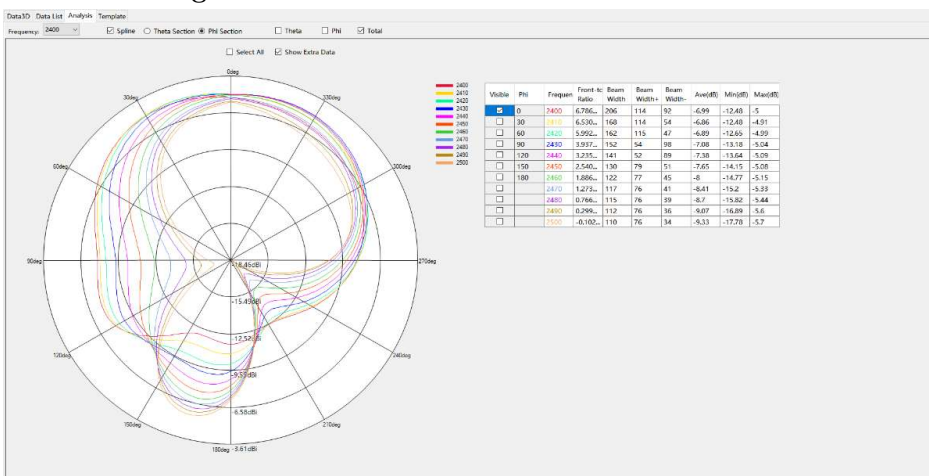


2D Antenna radiation pattern: (Right Ear - Free)

Theta=90.00deg

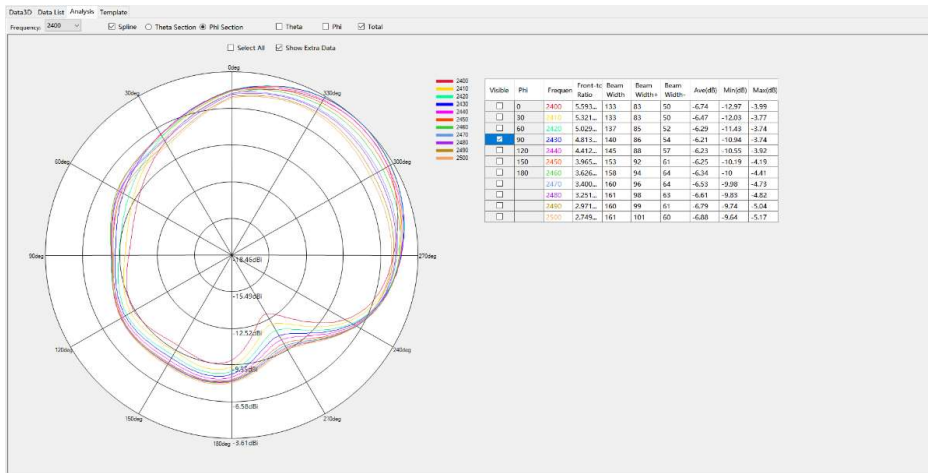


Phi=0.00deg





Phi=90.00deg



II: 3D Active test report of antenna

		Free		Head model	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
L	CH 0	4.4	-87.6	0.9	-83.2
	CH 39	4.6	-87.7	1.1	-83.5
	CH 78	4.9	-88.3	0.9	-83.2

		Free		Head model	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
R	CH 0	4.5	-87.6	1.6	-83.8
	CH 39	4.7	-88.2	1.7	-84.2
	CH 78	5.0	-88.3	1.4	-84.6

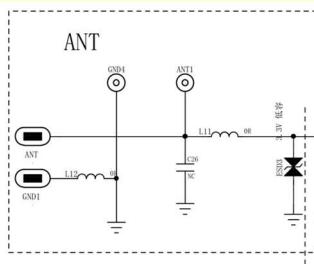


OTA Standard Chamber

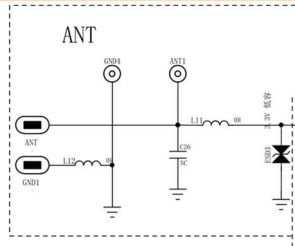


III: Matching circuit

L Antenna matching: 0 Ω



R Antenna matching: 0 Ω





IV: Antenna structure diagram file

