



Antenna Part Specification

Customer name:	Cosonic Intelligent Technologies Co., Ltd.
Project name:	CE-2205N(T40)
Material category:	R-FPC
Antenna type:	monopole
Version:	V2.0
Date:	2024.10.21
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer Address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china



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Change record			
Compile / change date	Reason for change	Changed content	Version
2024.04.25	First edition	First edition	V1.0
2024.10.21	Antenna optimization	Antenna optimization	V2.0

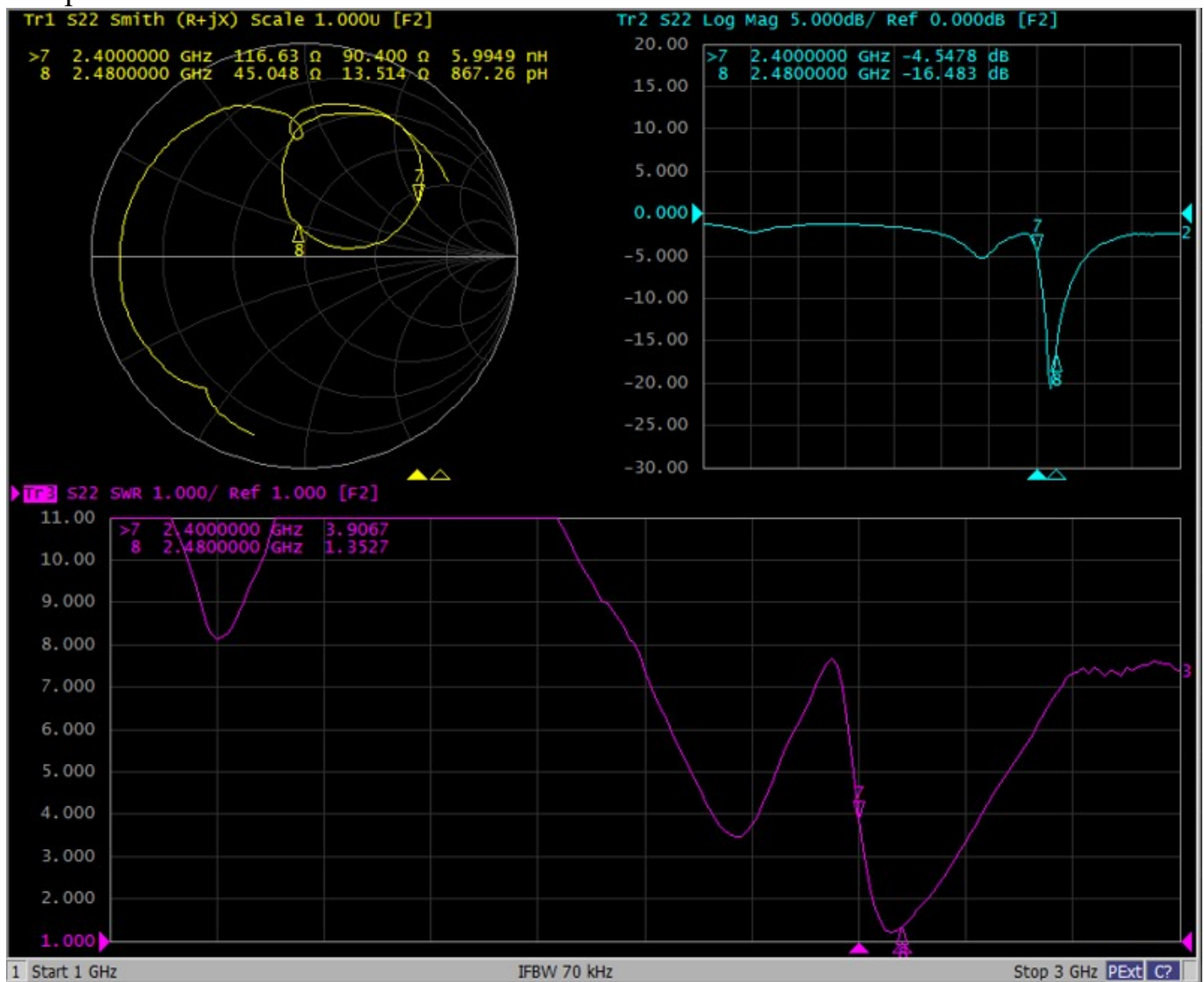


I: The report of passive data



Angilent E5071C

S11 parameter:





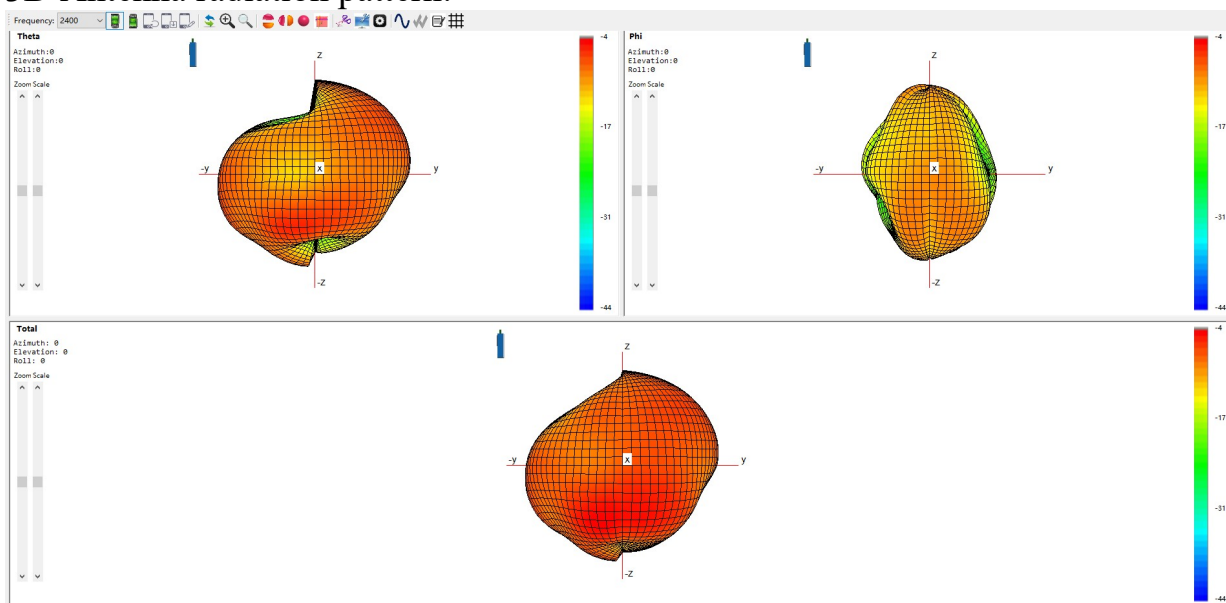
Efficiency:

R			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	13.0	-8.9	-5.4
2410	15.6	-8.1	-4.6
2420	17.8	-7.5	-4.0
2430	18.6	-7.3	-4.0
2440	18.6	-7.3	-4.1
2450	19.4	-7.1	-4.1
2460	19.1	-7.2	-4.1
2470	20.0	-7.0	-3.9
2480	20.7	-6.8	-3.7
Average value	18.1	-7.5	-4.2

2400~2480MHz:

Peak Gain:-3.7dBi Min Gain:-5.4dBi Avg Gain:-4.2dBi

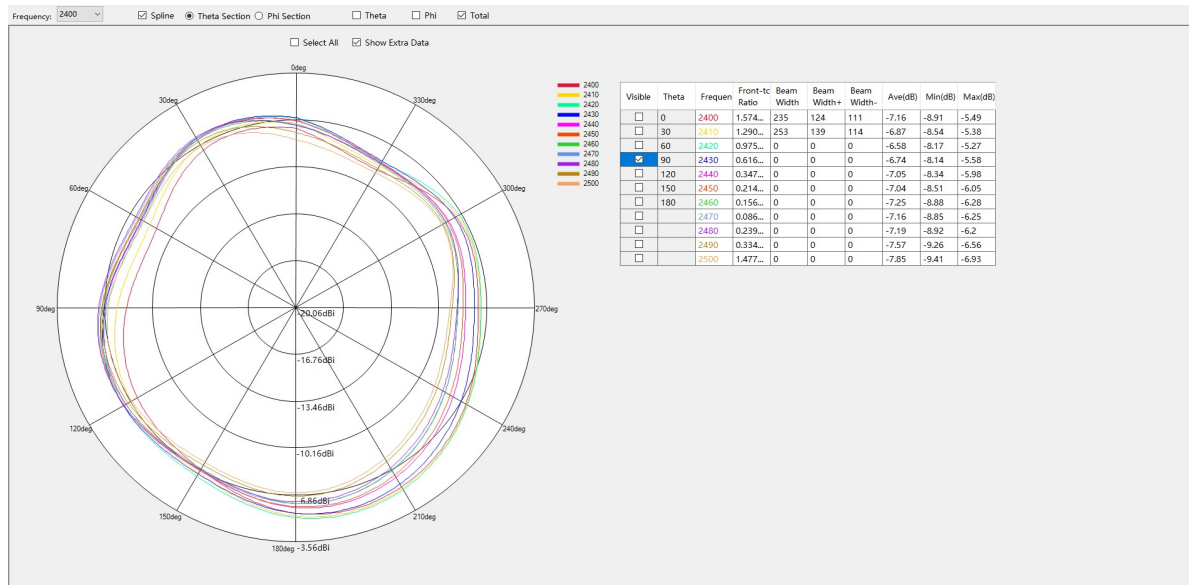
3D Antenna radiation pattern:



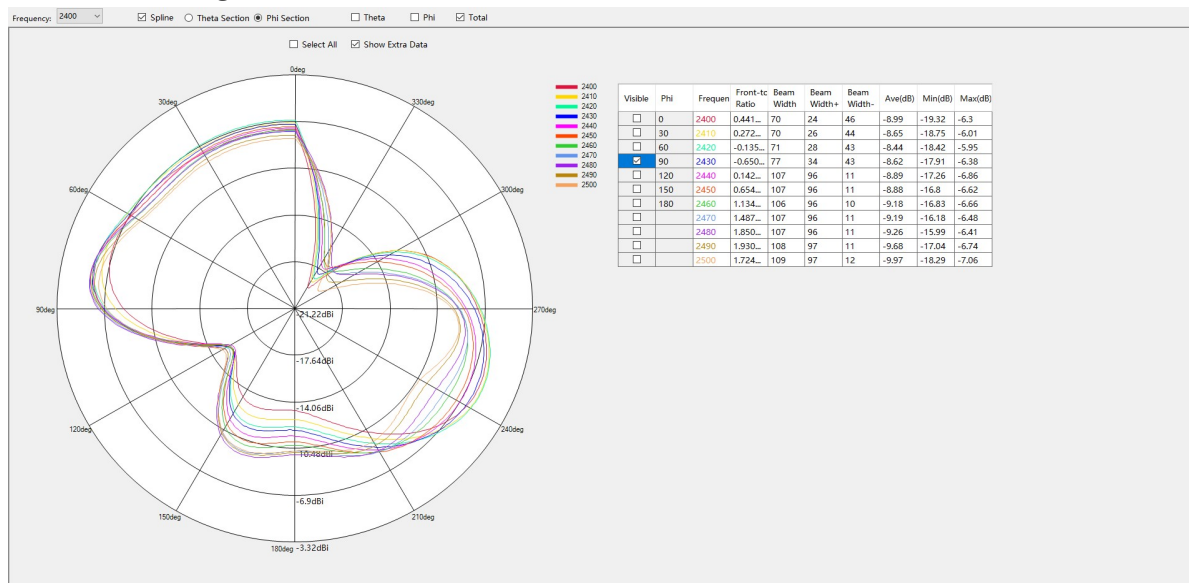


Antenna radiation pattern:

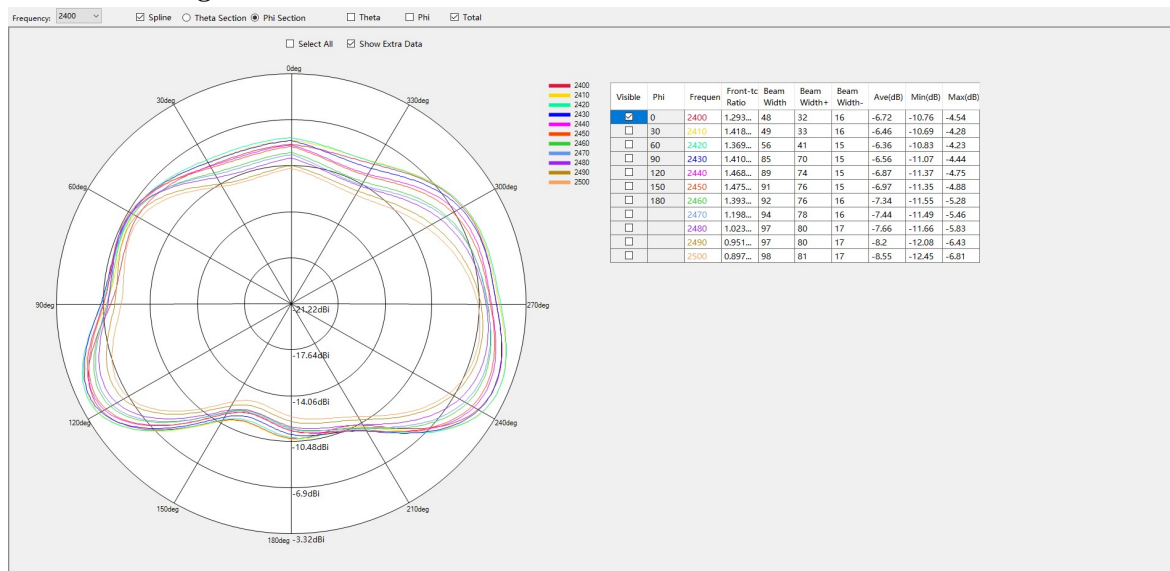
Theta=90.00deg



Phi=90.00deg

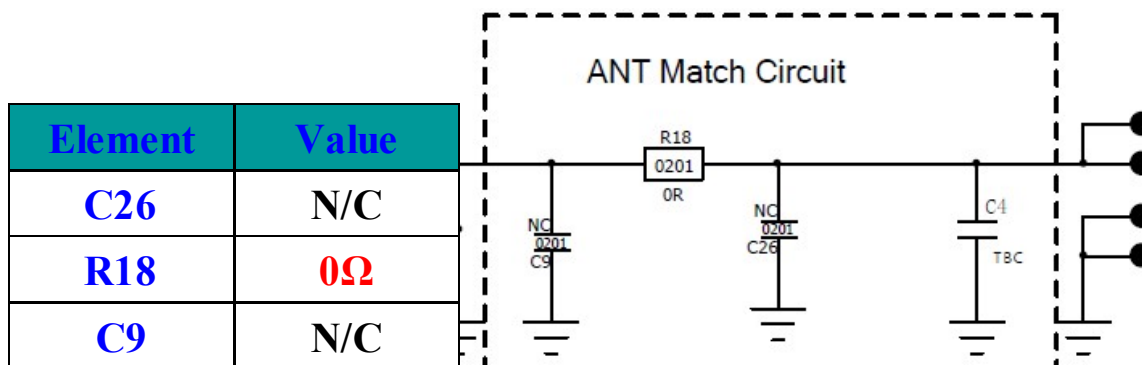


Phi=0.00deg





II: Matching circuit





III: Structure file

