



Antenna Part Specification

Project name:	CE-2269N
Antenna name:	R-BT antenna
Antenna type:	PIFA
Version:	V2.0
Date:	2026.7.13
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
2026.7.6	First edition	First edition	V1.0
2026.7.13	Antenna Alteration	Data Update	V2.0

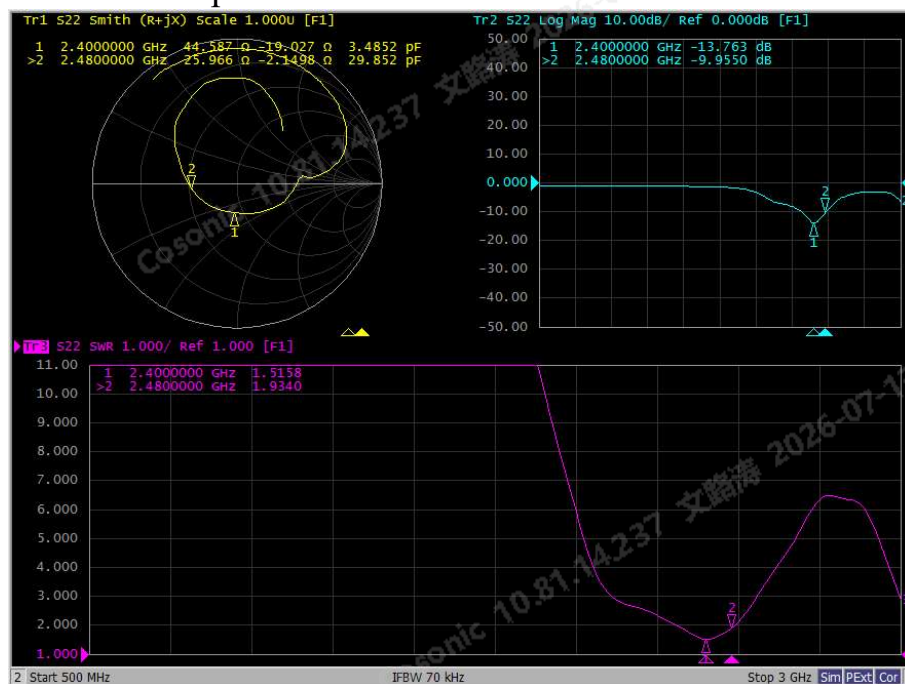


I: The report of passive data



Angilent E5071C

Antenna S11 parameter:





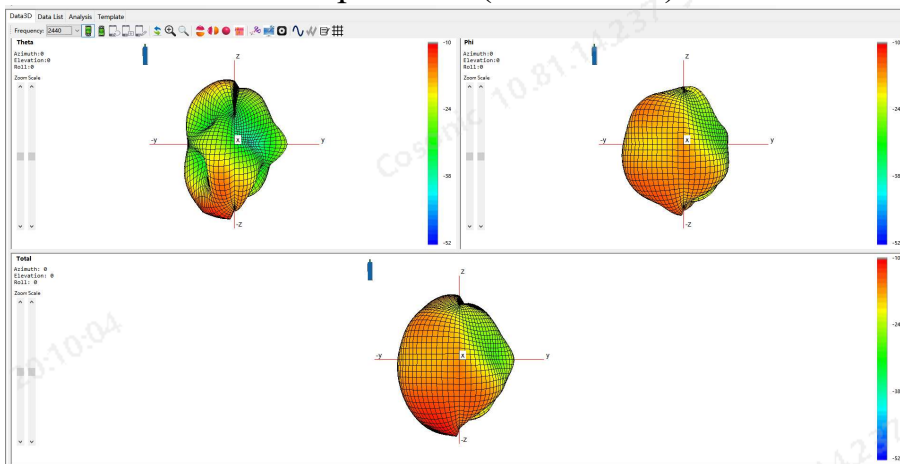
Antenna efficiency and gain: (free)

Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-6.3	-1.8	23.5
2410	-6.3	-1.8	23.6
2420	-6.2	-1.6	23.8
2430	-6.2	-1.5	23.9
2440	-6.2	-1.5	23.8
2450	-6.3	-1.5	23.6
2460	-6.3	-1.5	23.5
2470	-6.3	-1.5	23.4
2480	-6.4	-1.5	23.0
average	-6.3	-1.6	23.6

Antenna efficiency and gain: (head model)

Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-12.0	-4.3	6.4
2410	-12.0	-4.4	6.3
2420	-12.0	-4.5	6.2
2430	-12.1	-4.9	6.2
2440	-12.1	-5.2	6.1
2450	-12.2	-5.5	6.1
2460	-12.2	-6.0	6.0
2470	-12.3	-6.4	5.9
2480	-12.3	-6.9	5.9
average	-12.1	-5.3	6.1

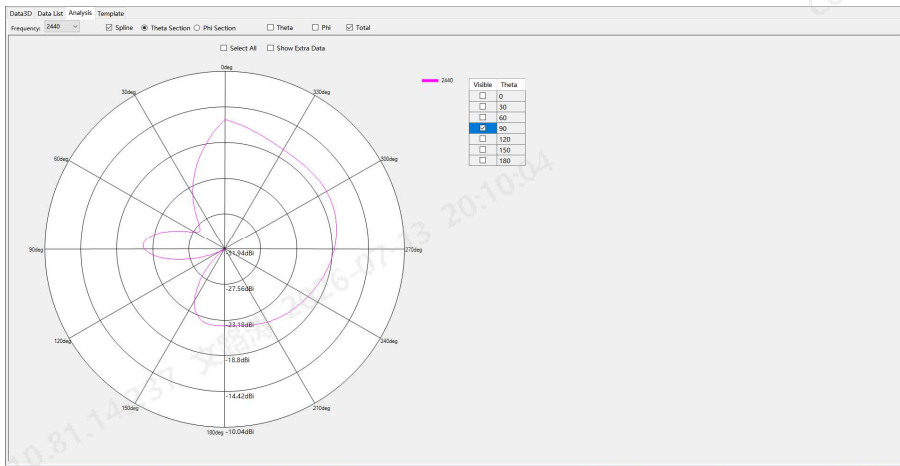
3D Antenna radiation pattern: (head model)



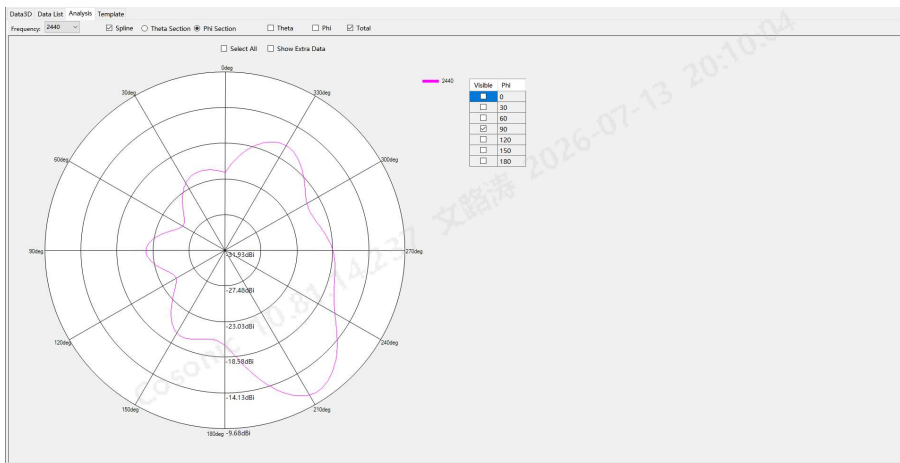


2D Antenna radiation pattern: (head model)

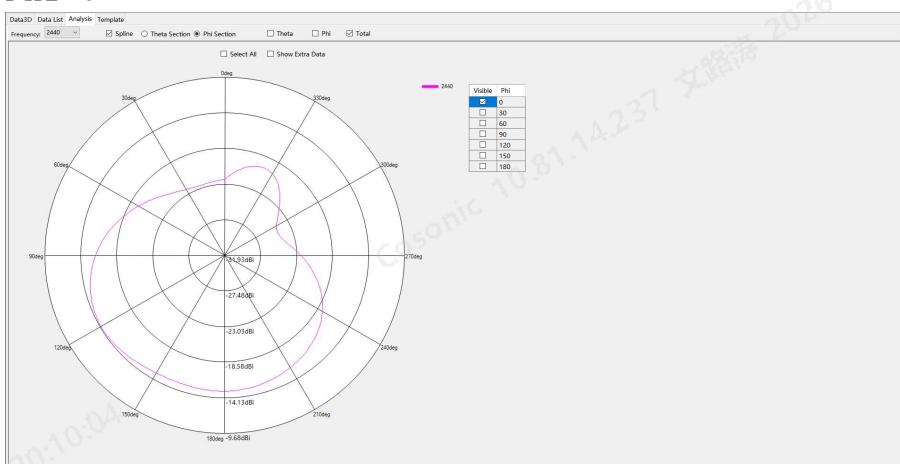
Theta = 90°



Phi = 90°



Phi = 0°





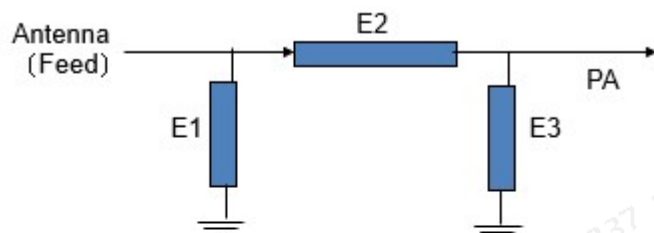
II: 3D Active test report of antenna

		free		head model	
	Channel	TRP (dBm)	TIS (dBm)	TRP (dBm)	TIS (dBm)
R	CH 0	2.8	-90.1	-4.3	-83.5
	CH 39	3.8	-89.2	-3.4	-82.9
	CH 78	3.1	-87.1	-5.0	-82.7



OTA Standard Chamber

III: Antenna matching circuit



Number	matching value
E1	0.8pF
E2	0Ω
E3	N/A



IV: Antenna structure diagram file

