



Antenna Part Specification

Project name:	602D
Antenna name:	BT/DECT antenna
Antenna type:	PIFA + Dipole
Version:	V2.0
Date:	2026.4.21
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
2026.3.19	First edition	First edition	V1.0
2026.4.21	Antenna in mass production status	Data update	V2.0

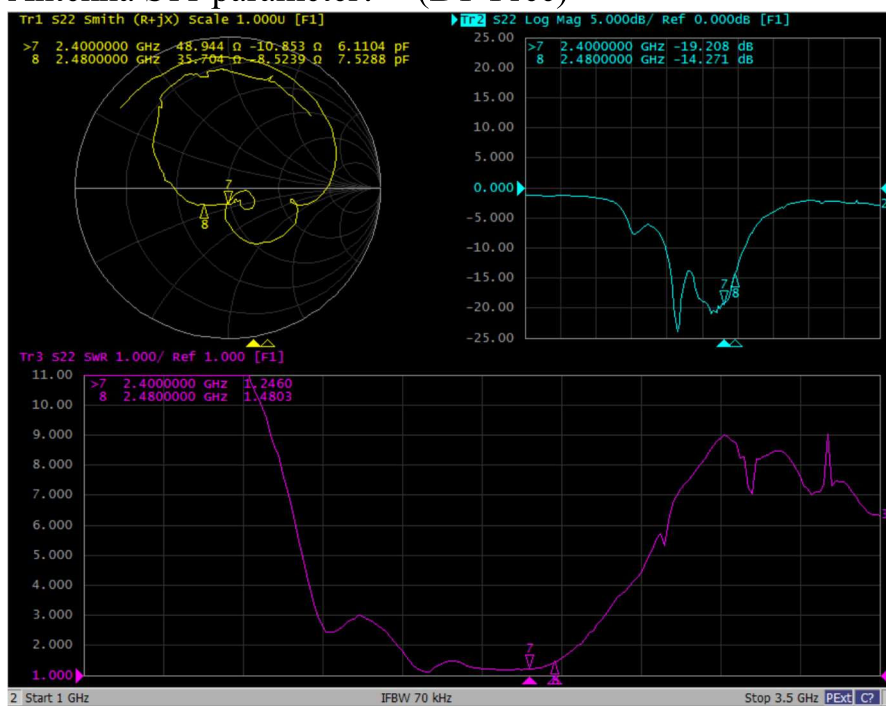


I: The report of passive data



Agilent E5071C

Antenna S11 parameter: (BT-Free)

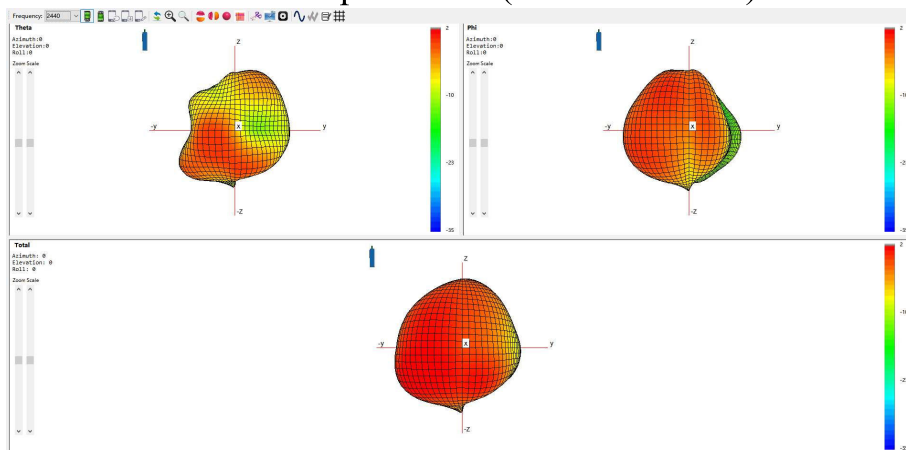




Antenna efficiency and gain: (BT-head model)

2400-2480 MHz PIFA			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	36.73	-4.35	2.17
2410	36.86	-4.33	2.16
2420	37.15	-4.3	2.16
2430	36.7	-4.35	2.05
2440	36.65	-4.36	1.99
2450	37.05	-4.31	2.17
2460	37.13	-4.3	2.35
2470	37.06	-4.31	2.52
2480	37.16	-4.3	2.68
average	36.9	-4.3	2.3

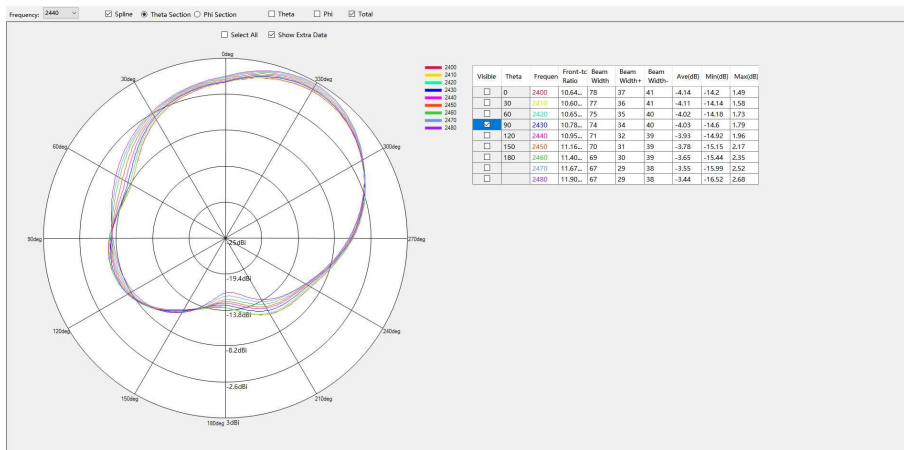
3D Antenna radiation pattern: (BT-head model)



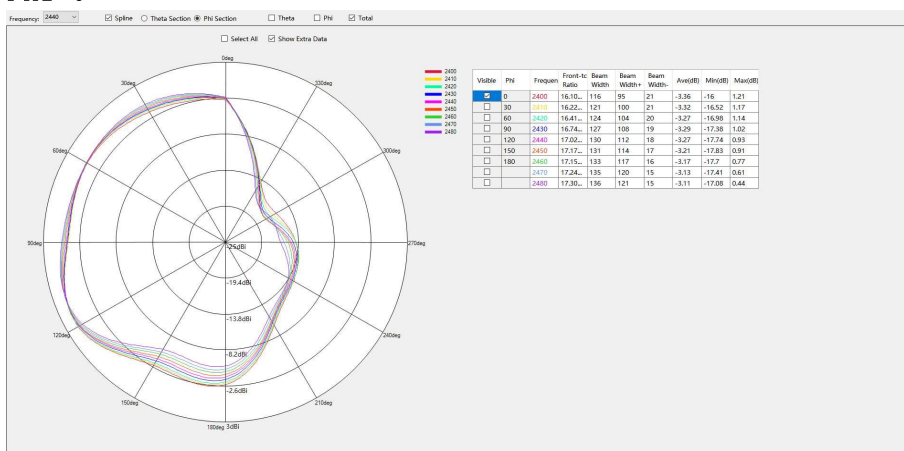


2D Antenna radiation pattern: (BT-head model)

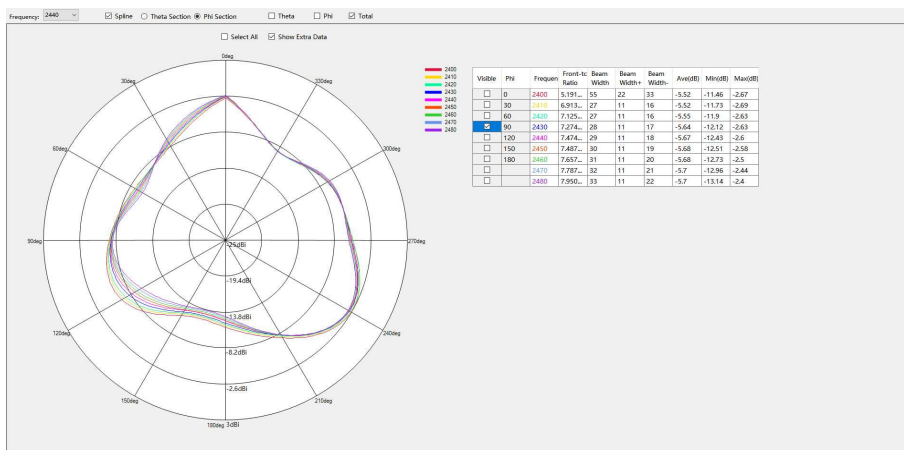
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Phi=0°



Phi=90°

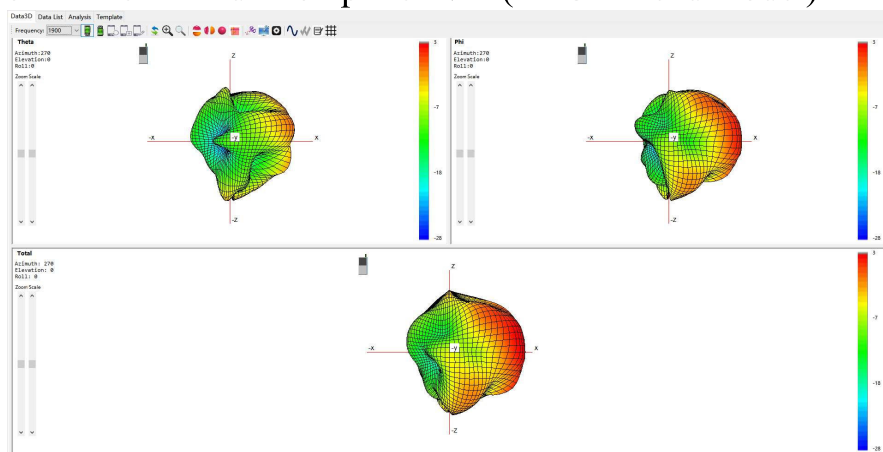




Antenna efficiency and gain: (DECT -head model)

1870-1930 MHz Dipole			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
1870	35.7	-4.5	2.0
1880	36.3	-4.4	2.0
1890	36.3	-4.4	2.1
1900	37.2	-4.3	2.2
1910	37.9	-4.2	2.4
1920	37.2	-4.3	2.3
1930	36.0	-4.4	2.4
average	36.6	-4.4	2.2

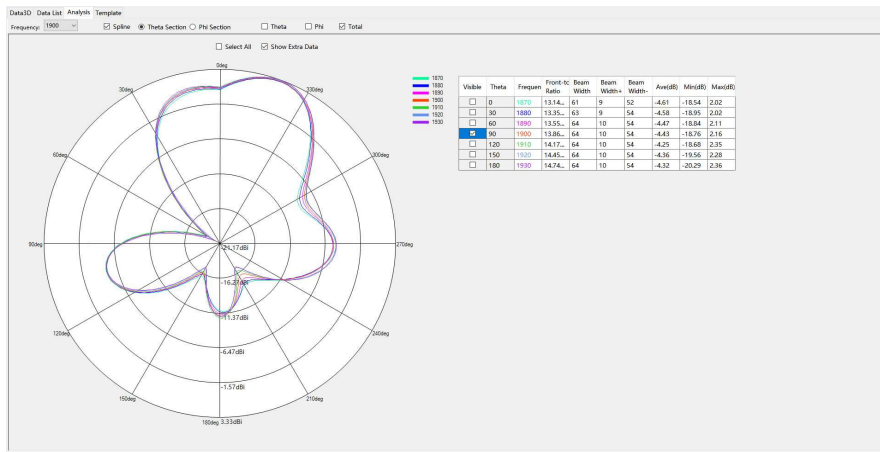
3D Antenna radiation pattern: (DECT -head model)



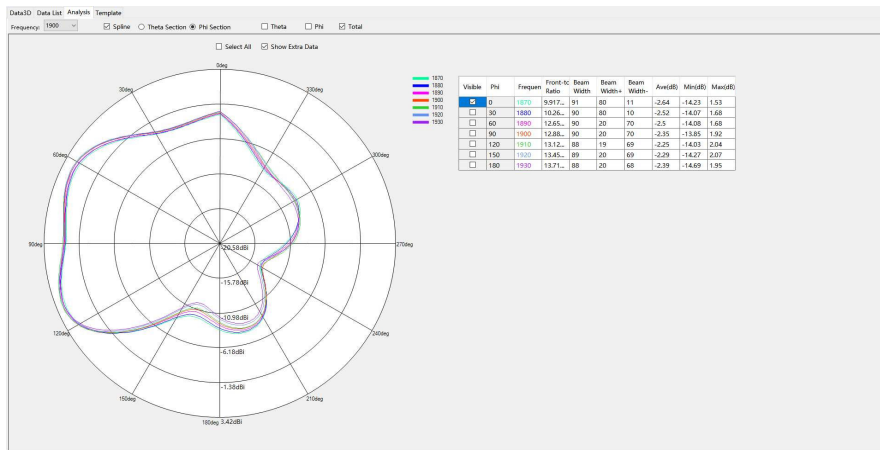


2D Antenna radiation pattern:(DECT -head model)

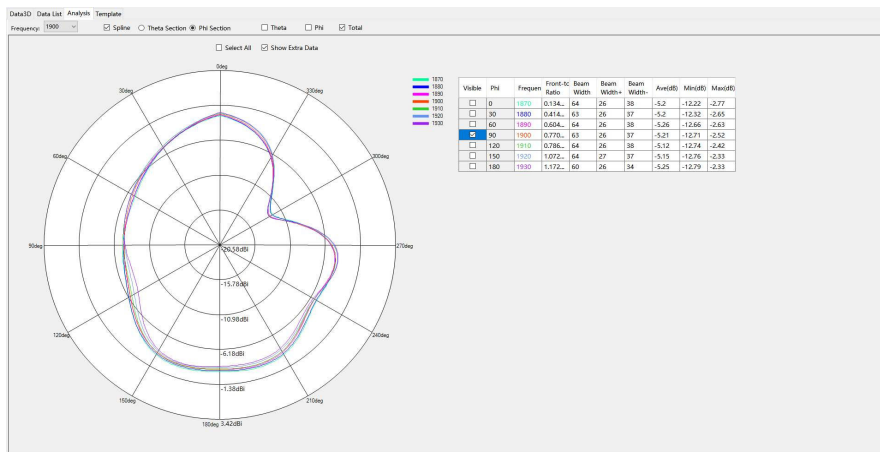
Theta=90°



Phi=0°



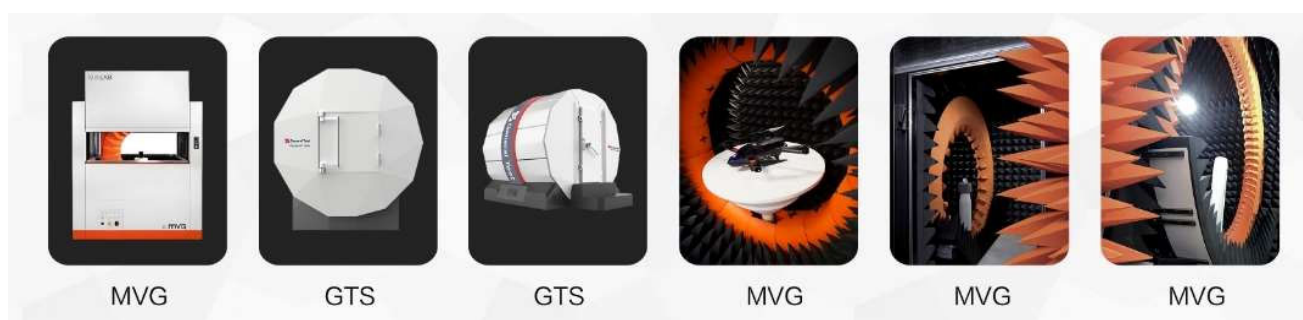
Phi=90°





II: 3D Active test report of antenna

		Free	
	Channel	TRP (dBm)	TIS (dBm)
BT	CH 0	4.7	-94.3
	CH 39	4.8	-94.7
	CH 78	4.0	-94.3

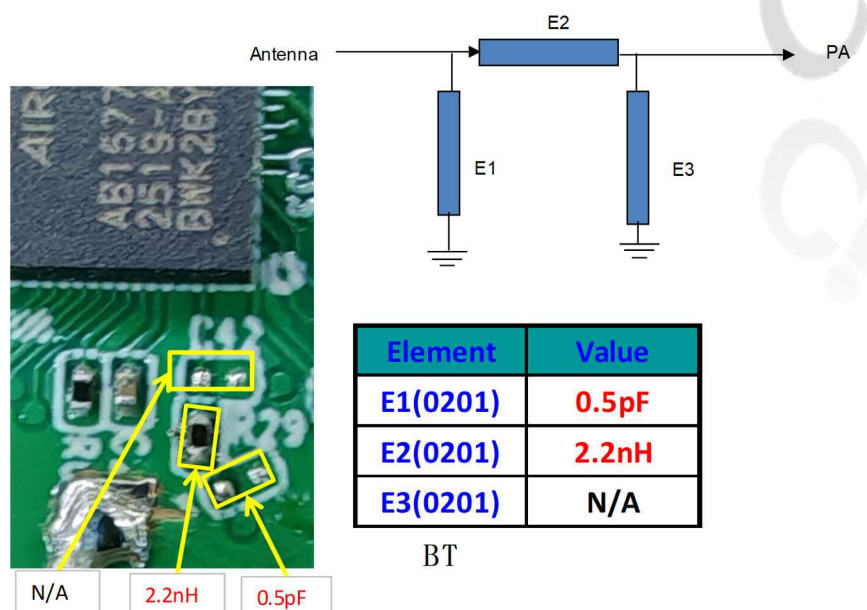


OTA Standard Chamber

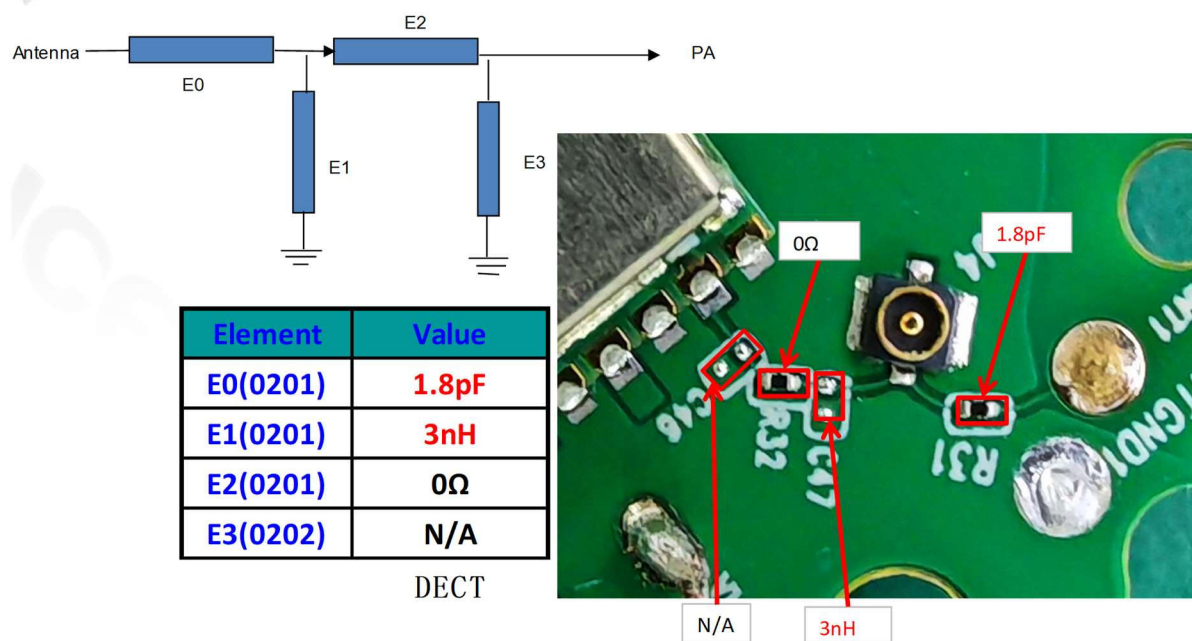


III: Antenna matching circuit

BT antenna matching:



DECT antenna matching:





IV: Antenna structure diagram file

