



Antenna Part Specification

Project name:	A526
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Antenna type:	BT antenna
Version:	V1.0
Date:	2024.09.12



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Change record			
Compile / change date	Reason for change	Changed content	Version
2024.09.12	First edition	First edition	V1.0

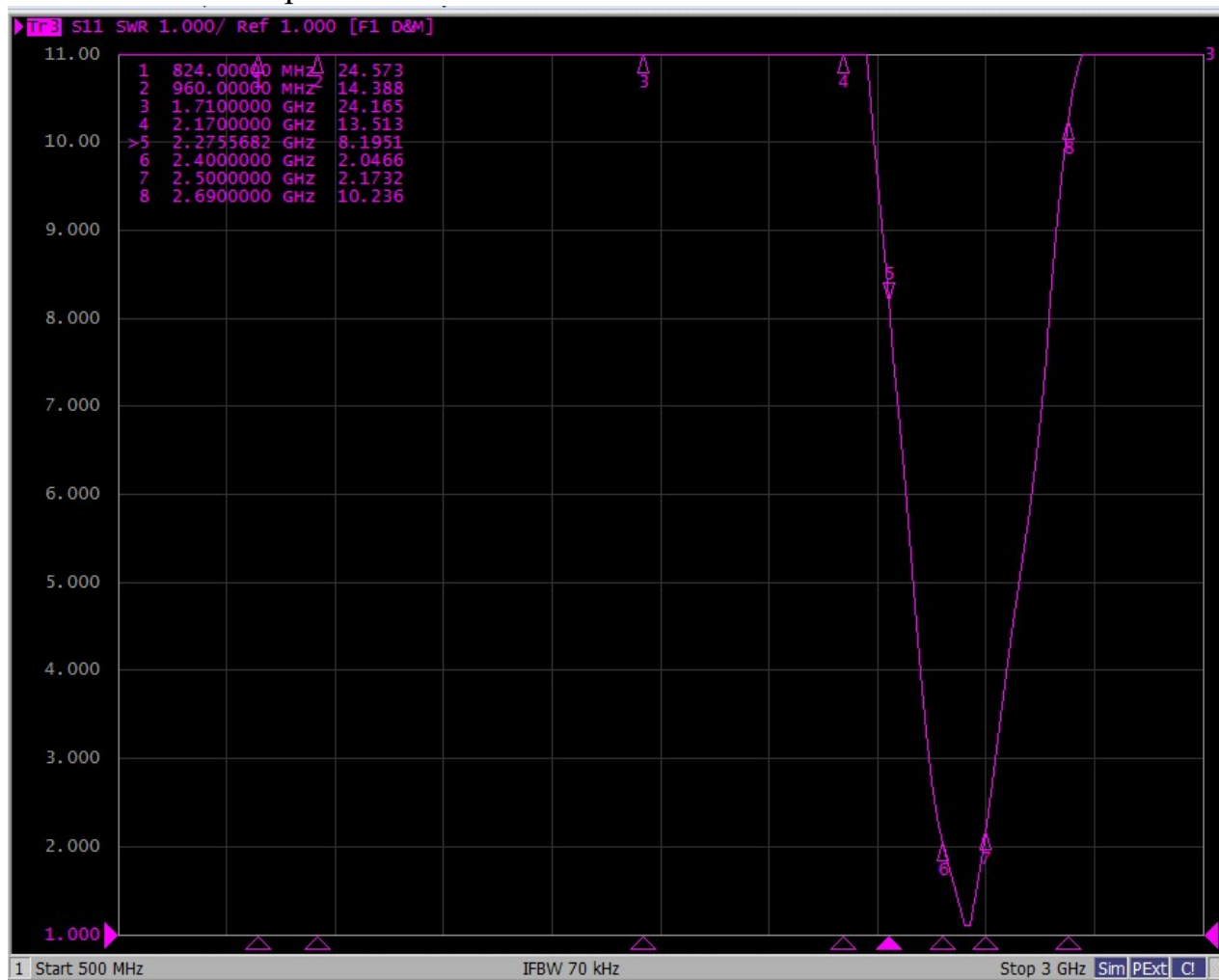


I: The report of passive data



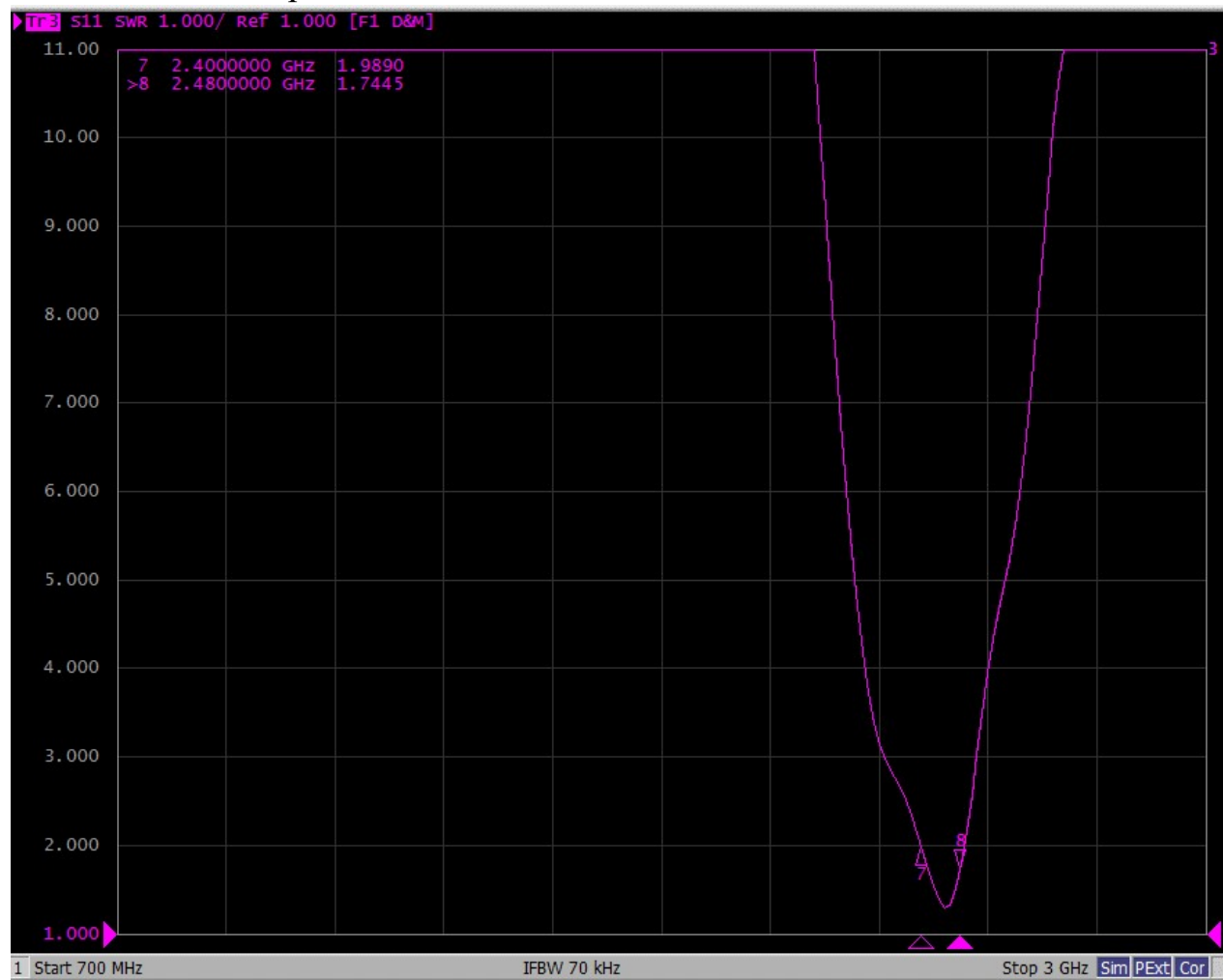
Angilent E5071C

L-BT antenna S11 parameter





R-BT antenna S11 parameter





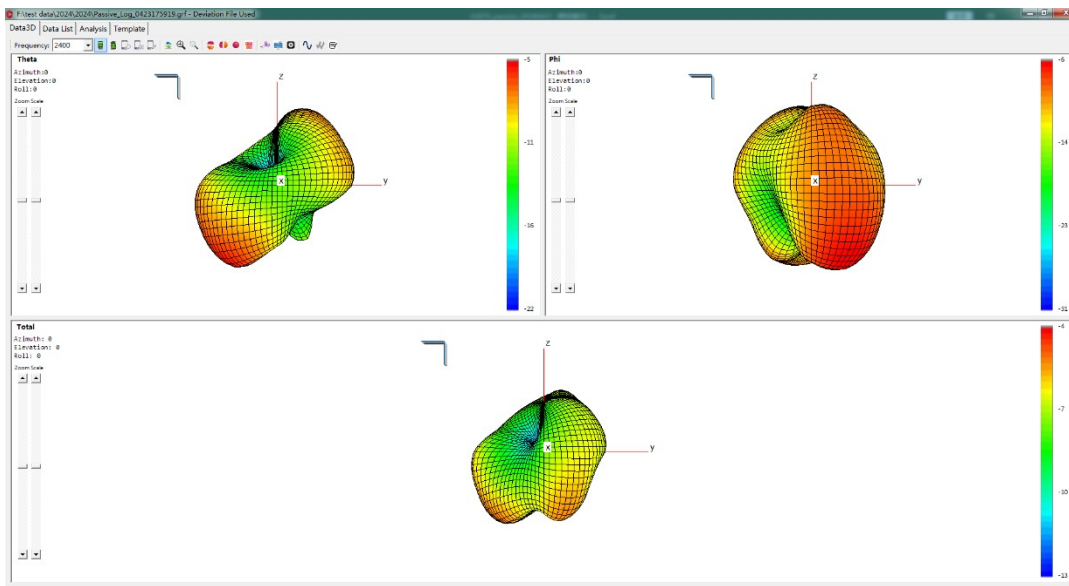
Efficiency:

L			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-4.86	-7.14	19.34
2410	-4.52	-6.85	20.66
2420	-4.34	-6.66	21.60
2430	-4.29	-6.71	21.33
2440	-4.45	-6.91	20.38
2450	-4.40	-6.89	20.44
2460	-4.63	-7.17	19.20
2470	-4.51	-7.12	19.40
2480	-4.54	-7.10	19.50
2490	-5.03	-7.59	17.40
2500	-5.41	-8.05	15.68
average value	-4.6	-7.1	19.5

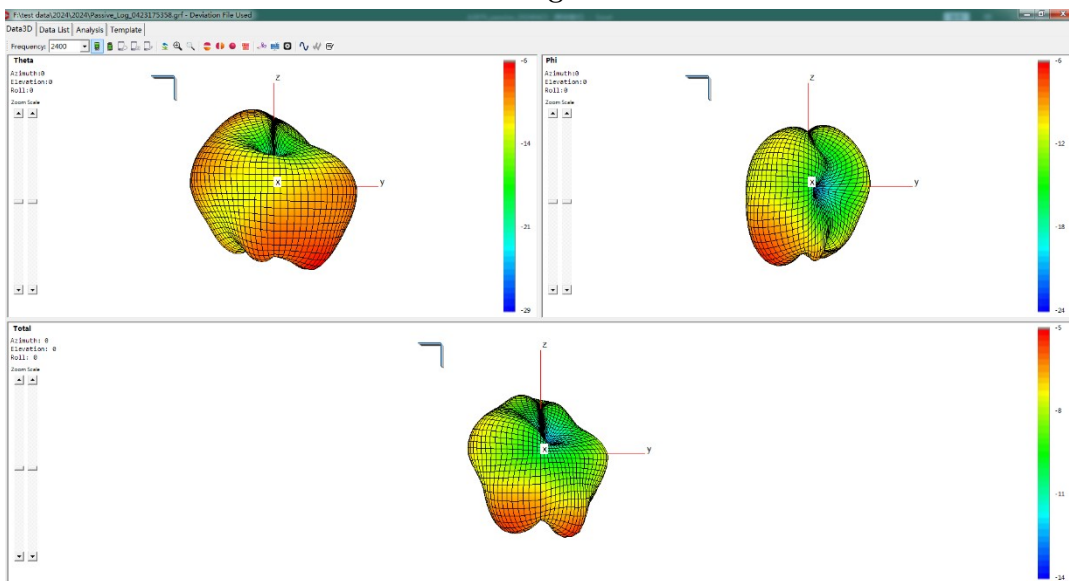
R			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	-5.47	-8.20	15.14
2410	-4.91	-7.62	17.32
2420	-4.50	-7.09	19.55
2430	-4.09	-6.83	20.73
2440	-3.83	-6.69	21.43
2450	-3.47	-6.41	22.84
2460	-3.33	-6.44	22.71
2470	-3.07	-6.25	23.69
2480	-2.91	-6.16	24.21
2490	-3.18	-6.55	22.11
2500	-3.50	-6.96	20.14
average value	-3.8	-6.8	20.9



L-Passive 3D directional diagram of BT antenna unit: dBi



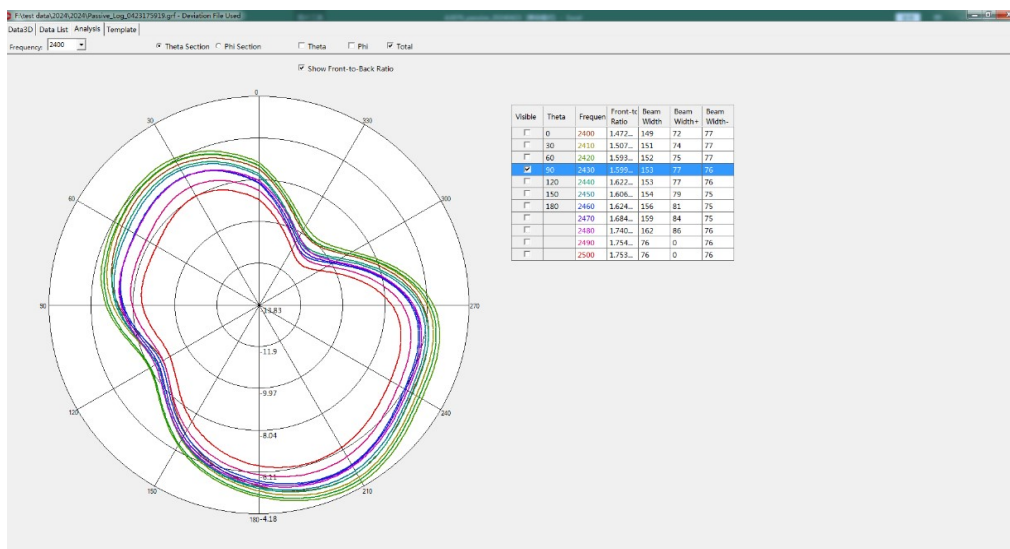
R- Passive 3D directional diagram of BT antenna unit: dBi



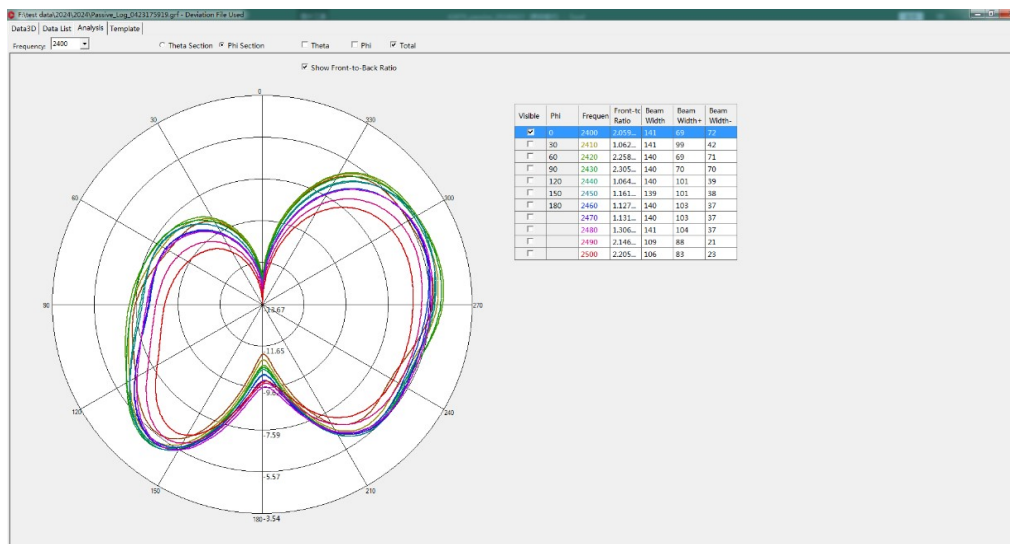


L-Passive 2D directional pattern of BT antenna:

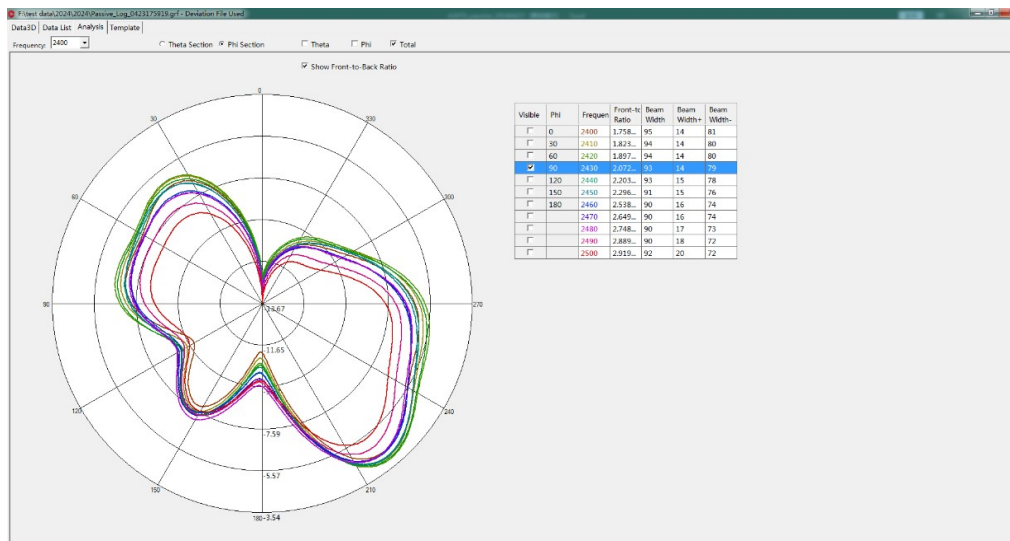
Theta=90° unit: dBi



Phi=0° unit: dBi



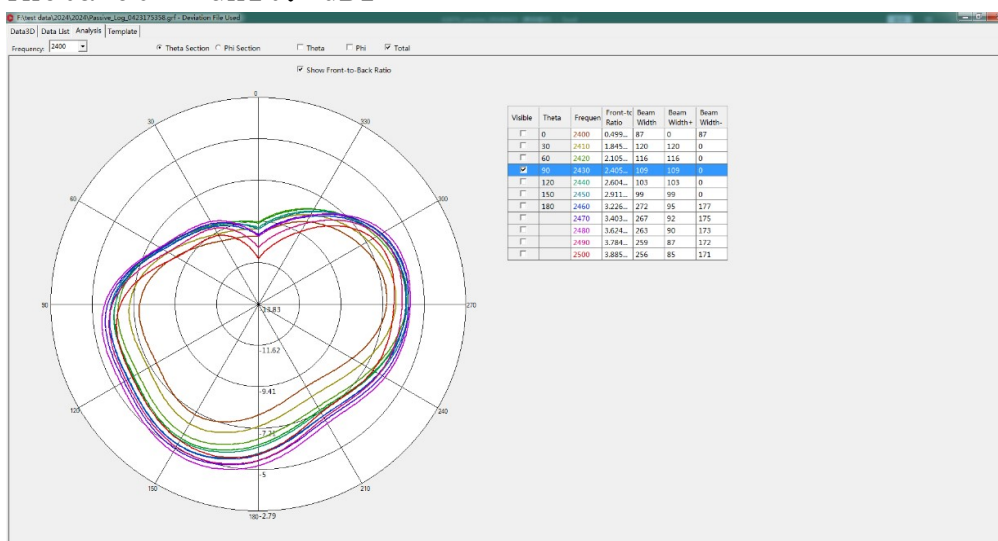
Phi=90° unit: dBi



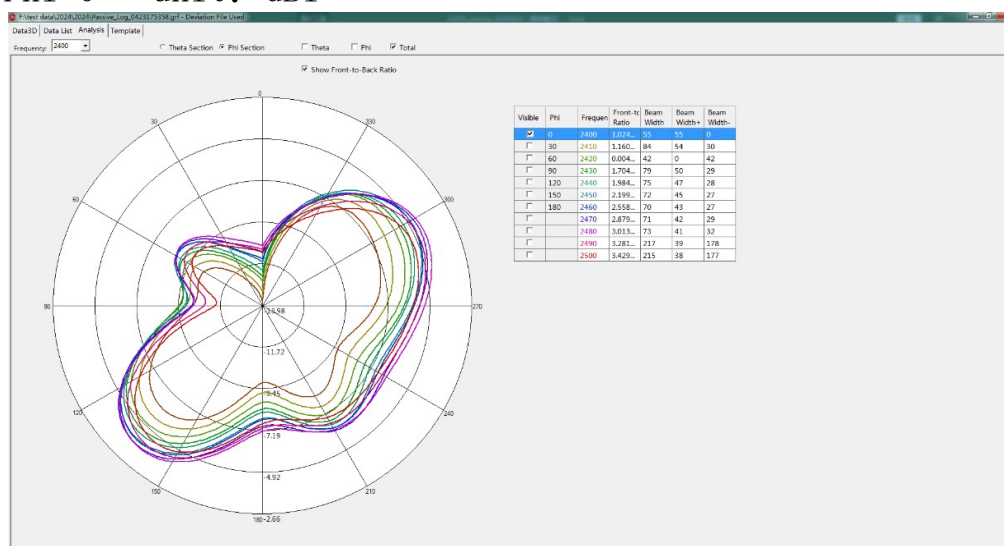


R-Passive 2D directional pattern of BT antenna:

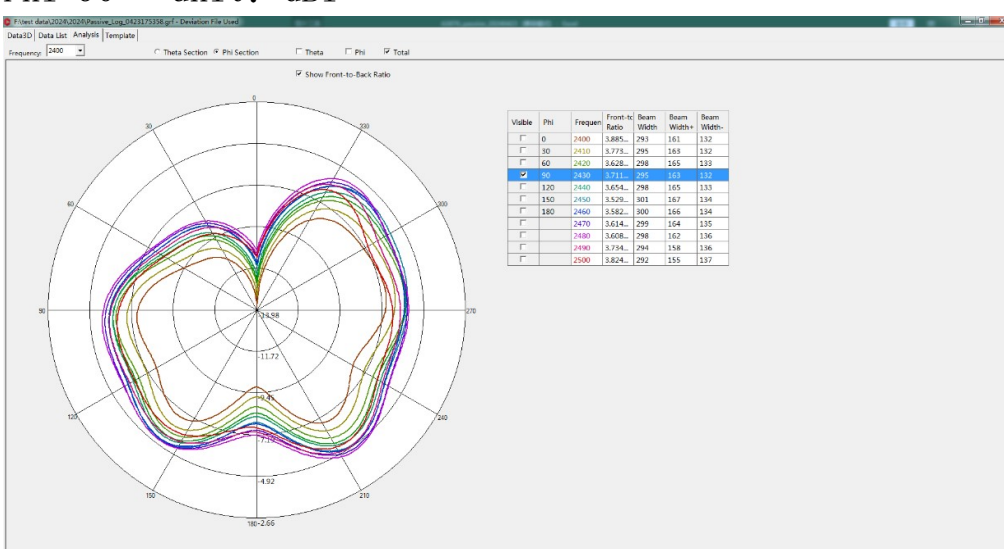
Theta=90° unit: dBi



Phi=0° unit: dBi



Phi=90° unit: dBi





II: 3D Active test report of antenna

BT	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	1.7	-89.0
	CH 39	2.6	-90.8
	CH 78	2.5	-90.8

BT	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	2.8	-89.5
	CH 39	2.2	-90.0
	CH 78	1.5	-89.0



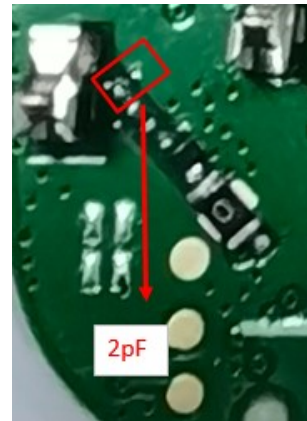
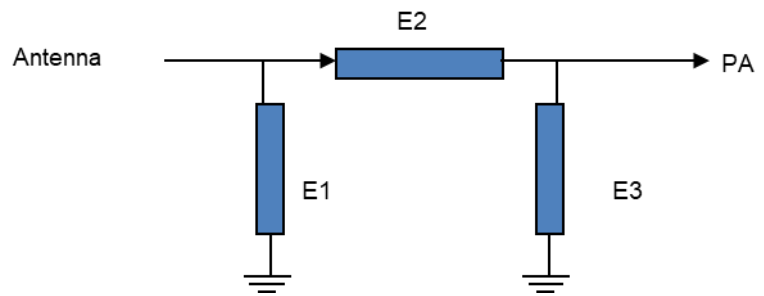
OTA Standard Chamber



III: Matching circuit

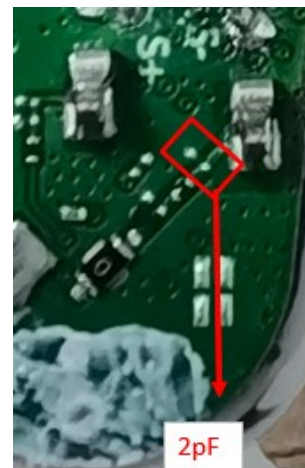
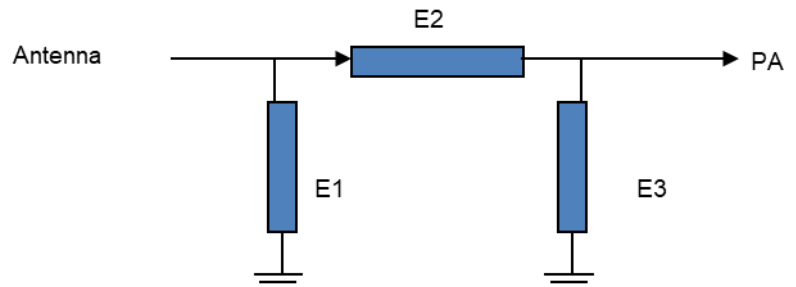
Left ear matching circuit:

Element	Value
E1(0201)	2pF
E2(0201)	0Ω
E3(0201)	N/A



Right ear matching circuit:

Element	Value
E1(0201)	2pF
E2(0201)	0Ω
E3(0201)	N/A





IV: Structure file

