



Antenna Part Specification

Customer name:	EDIFIER
Project name:	X3 Air
Material category:	BT antenna
Version:	V1.0
Date:	2023.06.27



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Change record			
Compile / change date	Reason for change	Changed content	Version

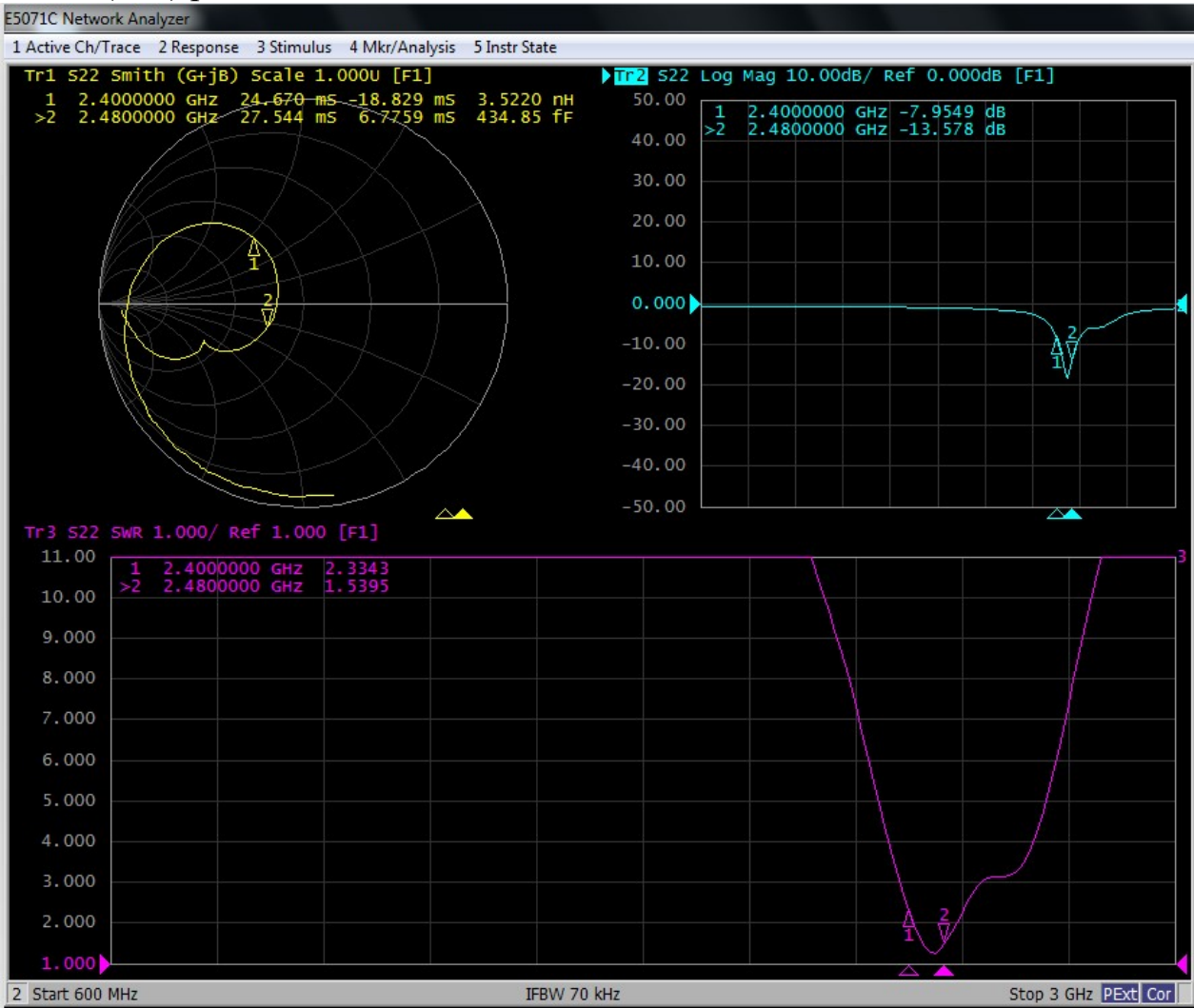


I: The report of passive data



Angilent E5071C

VSWR(S11) parameter (L) :

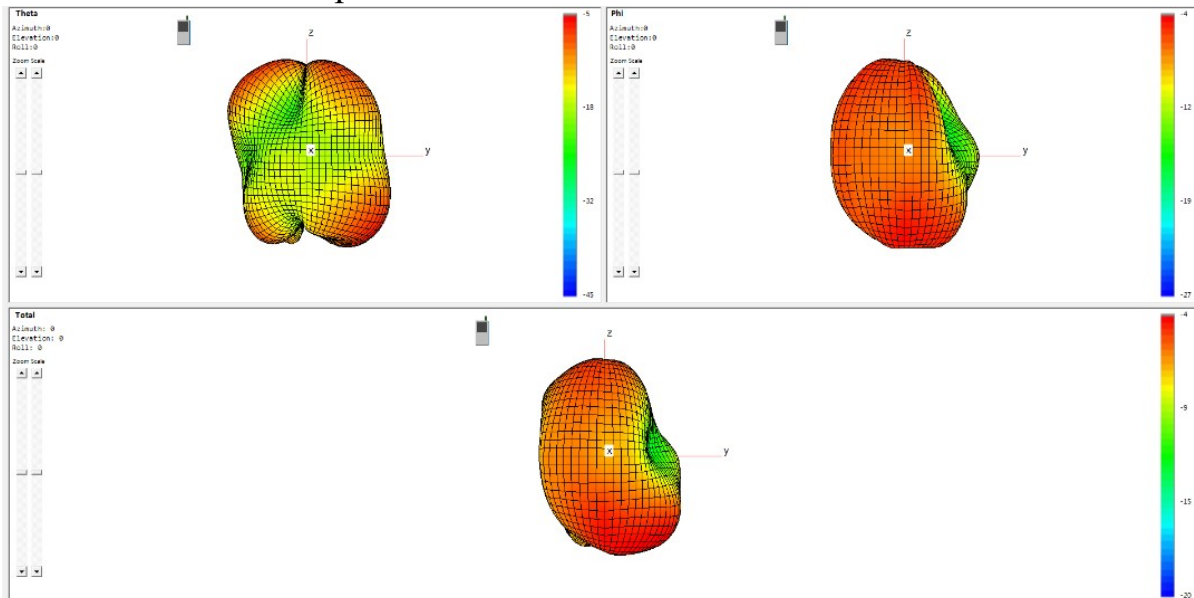




Efficiency:

2400-2480 MHz (L)			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	-5.01	-7.73	16.86
2410	-4.69	-7.37	18.34
2420	-4.32	-6.99	20.00
2430	-4.09	-6.93	20.29
2440	-4.04	-6.92	20.33
2450	-3.91	-6.68	21.49
2460	-3.86	-6.66	21.57
2470	-3.35	-6.38	22.99
2480	-2.89	-6.24	23.78
Average value	-4.02	-6.88	20.63

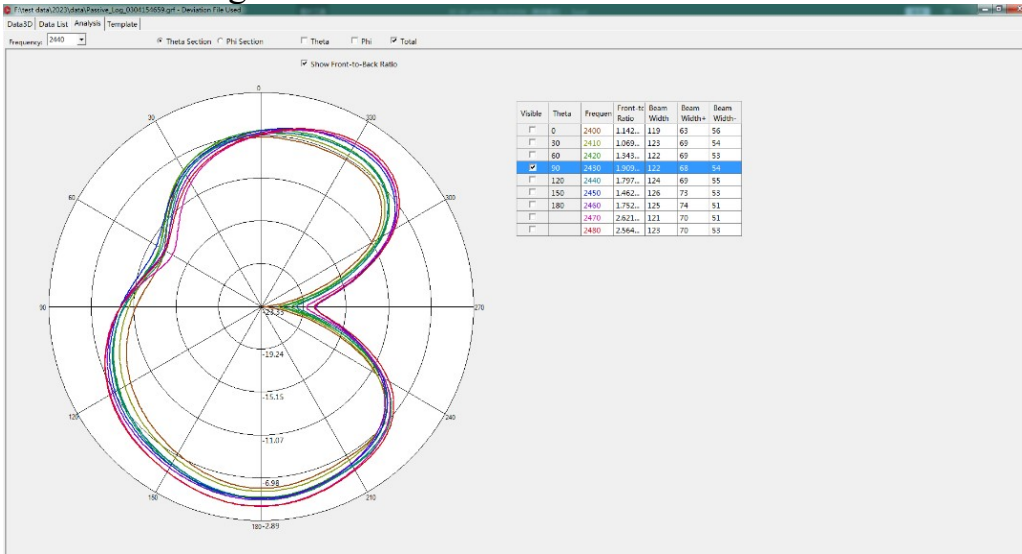
3D Antenna radiation pattern (L) :



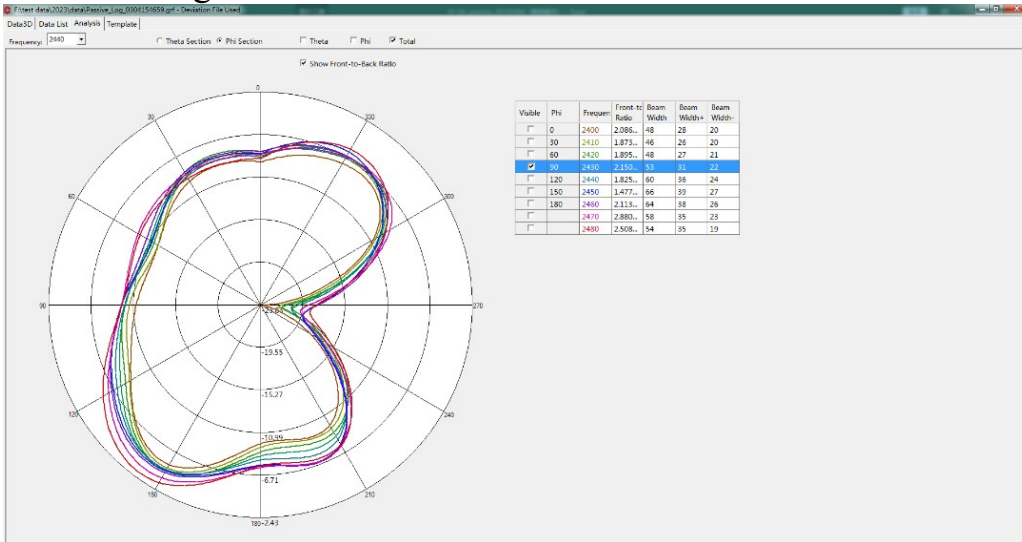


Antenna radiation pattern (L) :

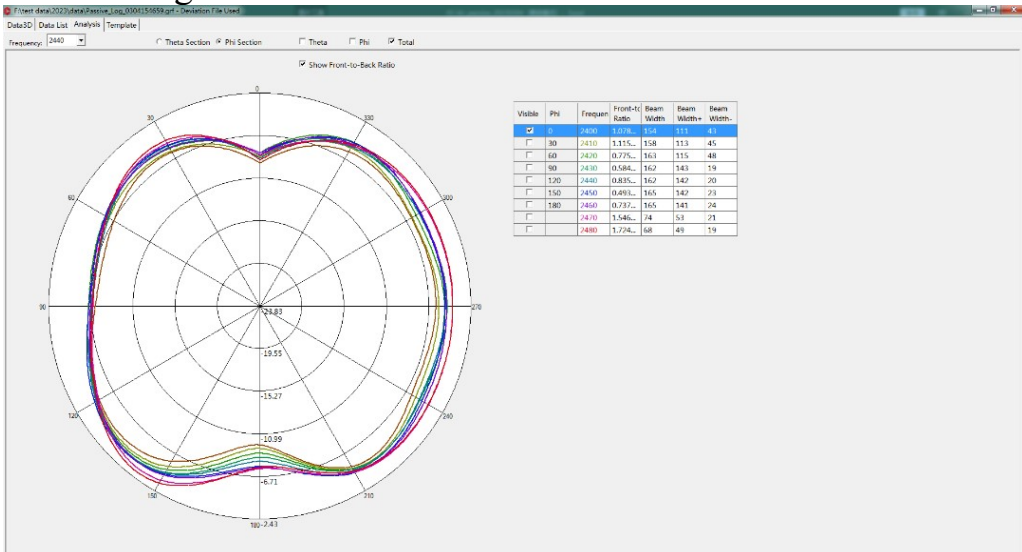
Theta=90.00deg



Phi=90.00deg

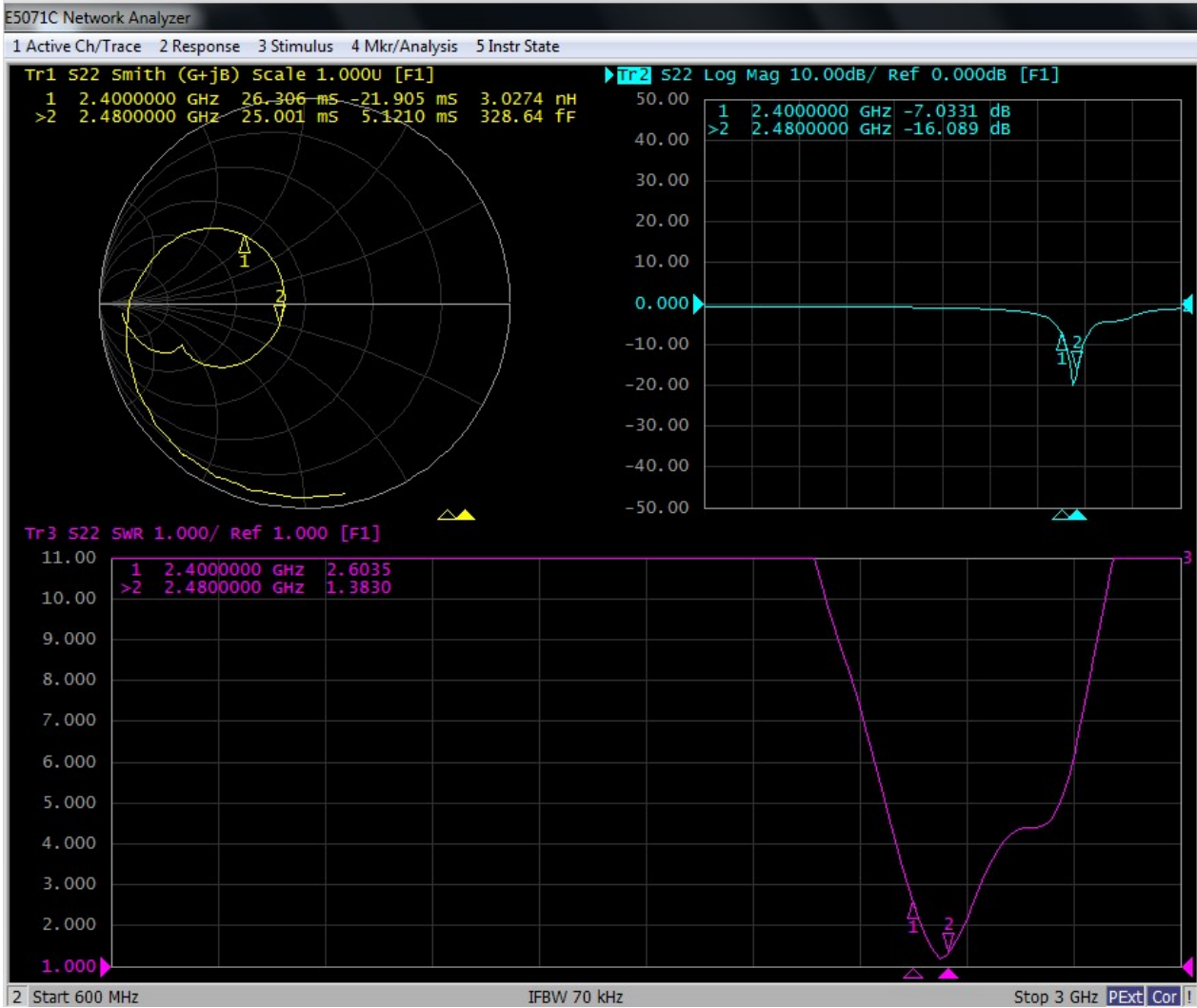


Phi=0.00deg





VSWR(S11) parameter (R) :

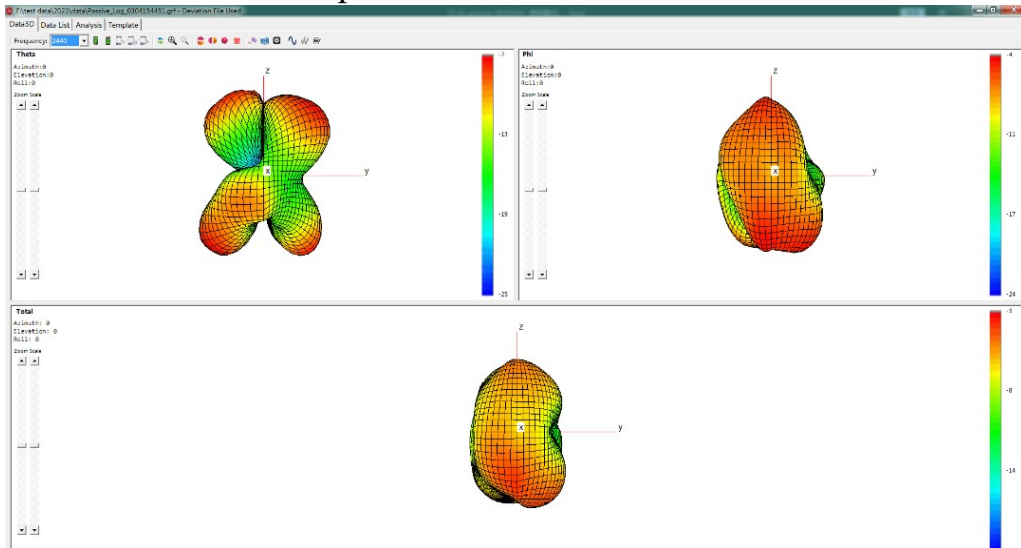


Efficiency:

2400-2480 MHz (R)			
Frequency (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency
2400	-4.59	-8.17	15.24
2410	-4.26	-7.70	16.97
2420	-3.97	-7.24	18.88
2430	-4.00	-7.16	19.24
2440	-3.99	-7.13	19.38
2450	-3.81	-6.81	20.85
2460	-3.85	-6.68	21.47
2470	-3.55	-6.34	23.24
2480	-3.12	-6.20	23.98
Average value	-3.90	-7.05	19.92

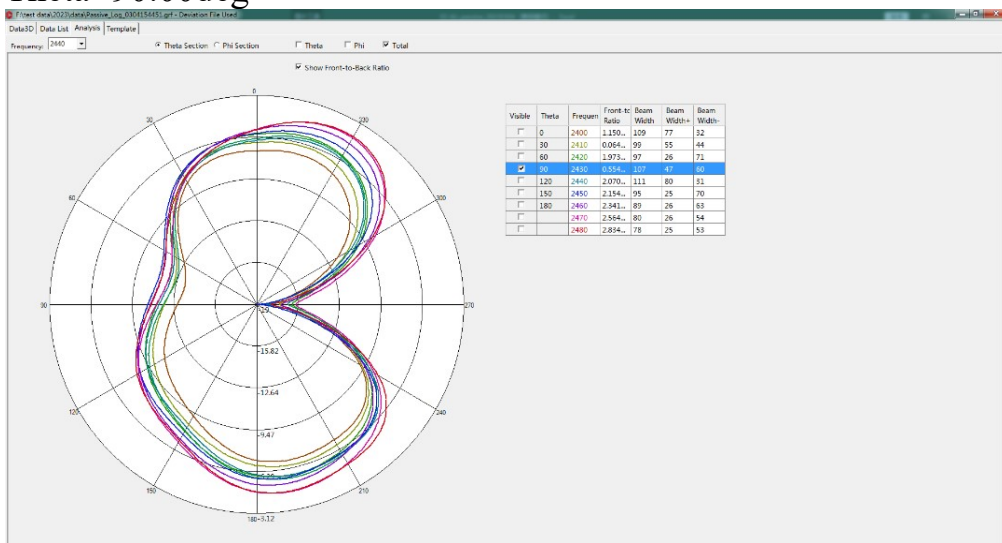


3D Antenna radiation pattern (R) :



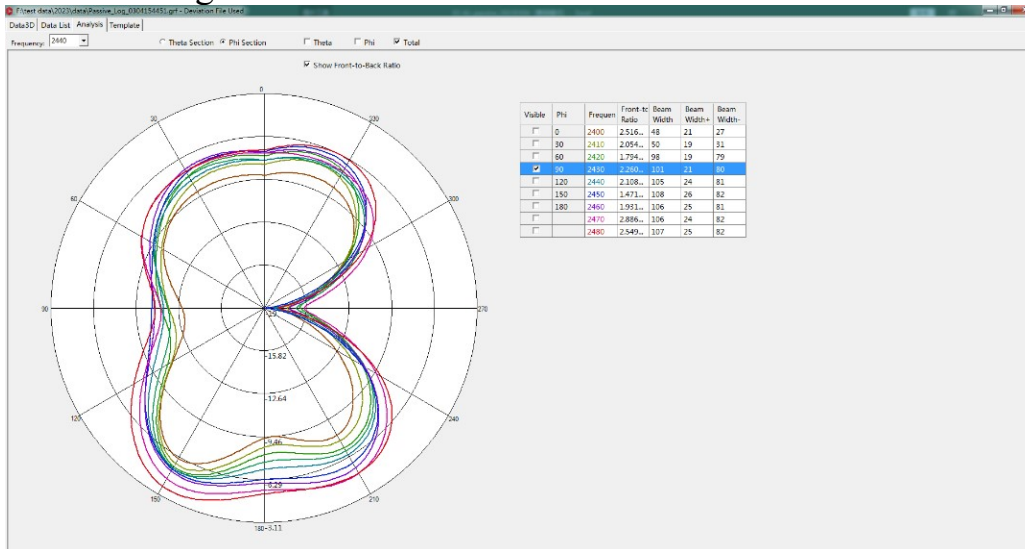
Antenna radiation pattern (R) :

Theta=90.00deg

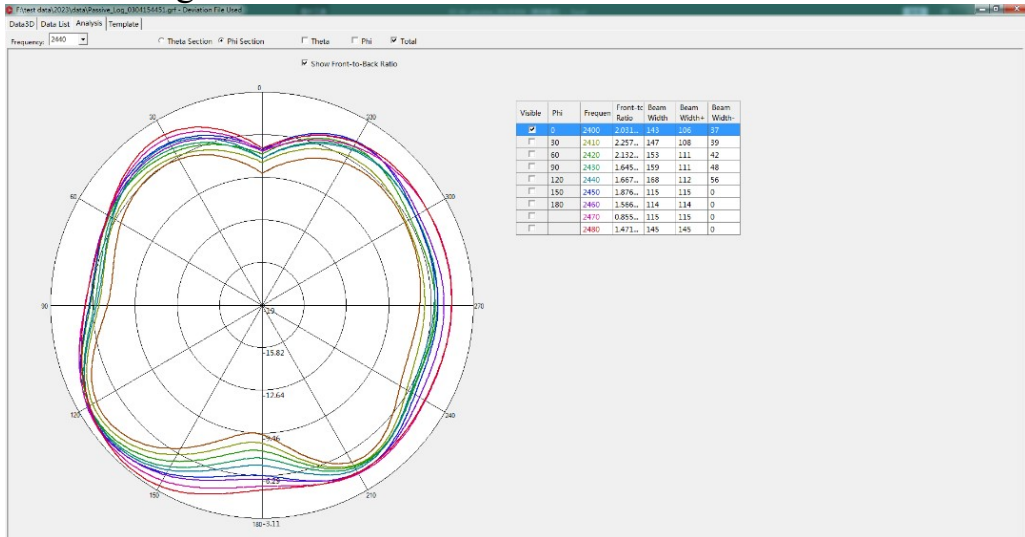




Phi=90.00deg



Phi=0.00deg

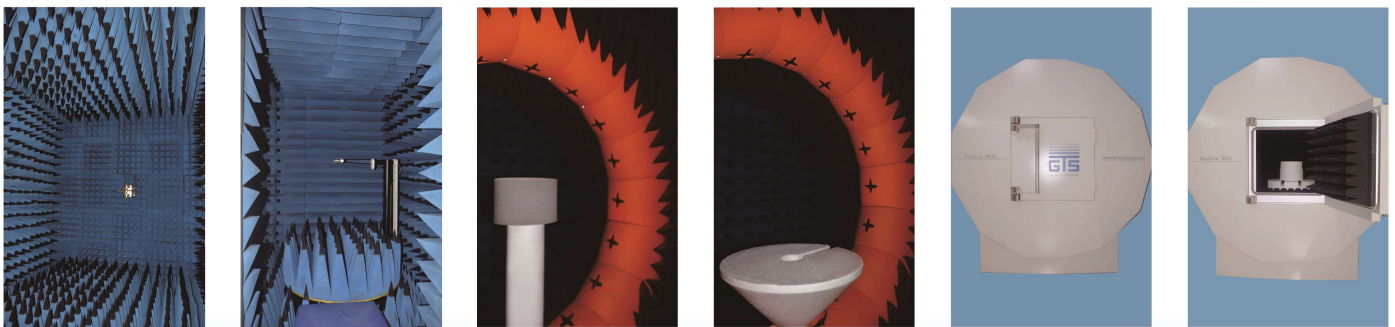




II: 3D Active test report of antenna

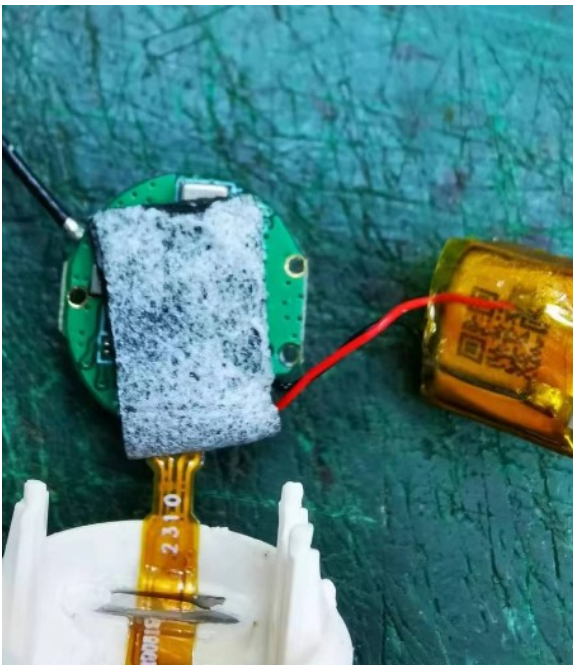
	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	5.7	-87.8
	CH 39	6.0	-89.1
	CH 78	5.0	-88.1

	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	5.1	-88.2
	CH 39	5.7	-89.8
	CH 78	5.1	-89.1

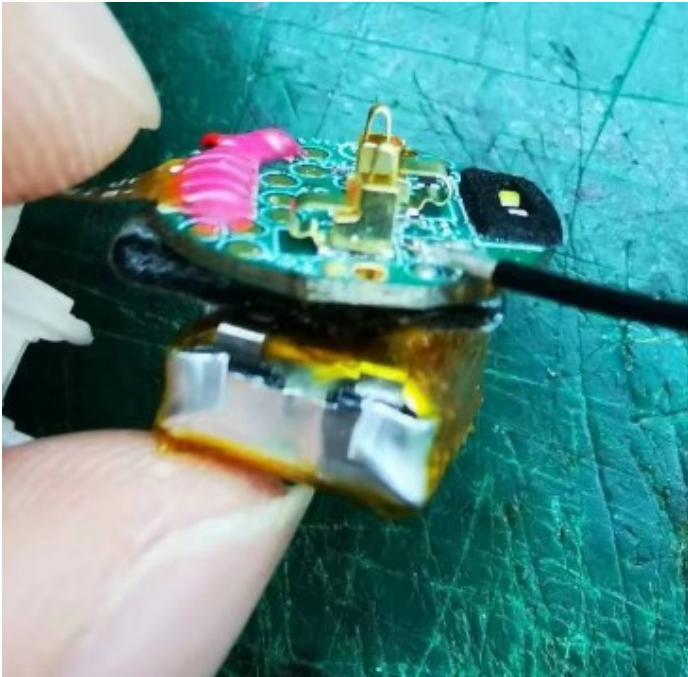


OTA Standard Chamber

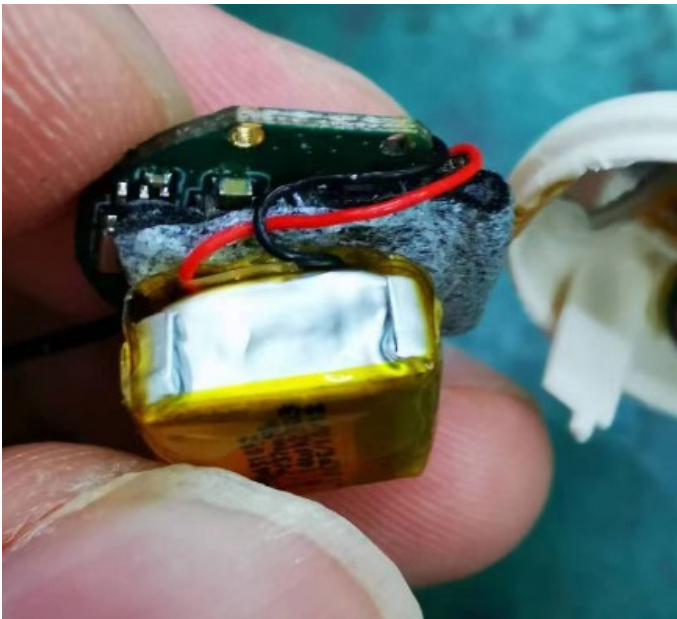
III: Installation precautions



1. Stick foam onto the motherboard. Cover devices such as chips and power inductors



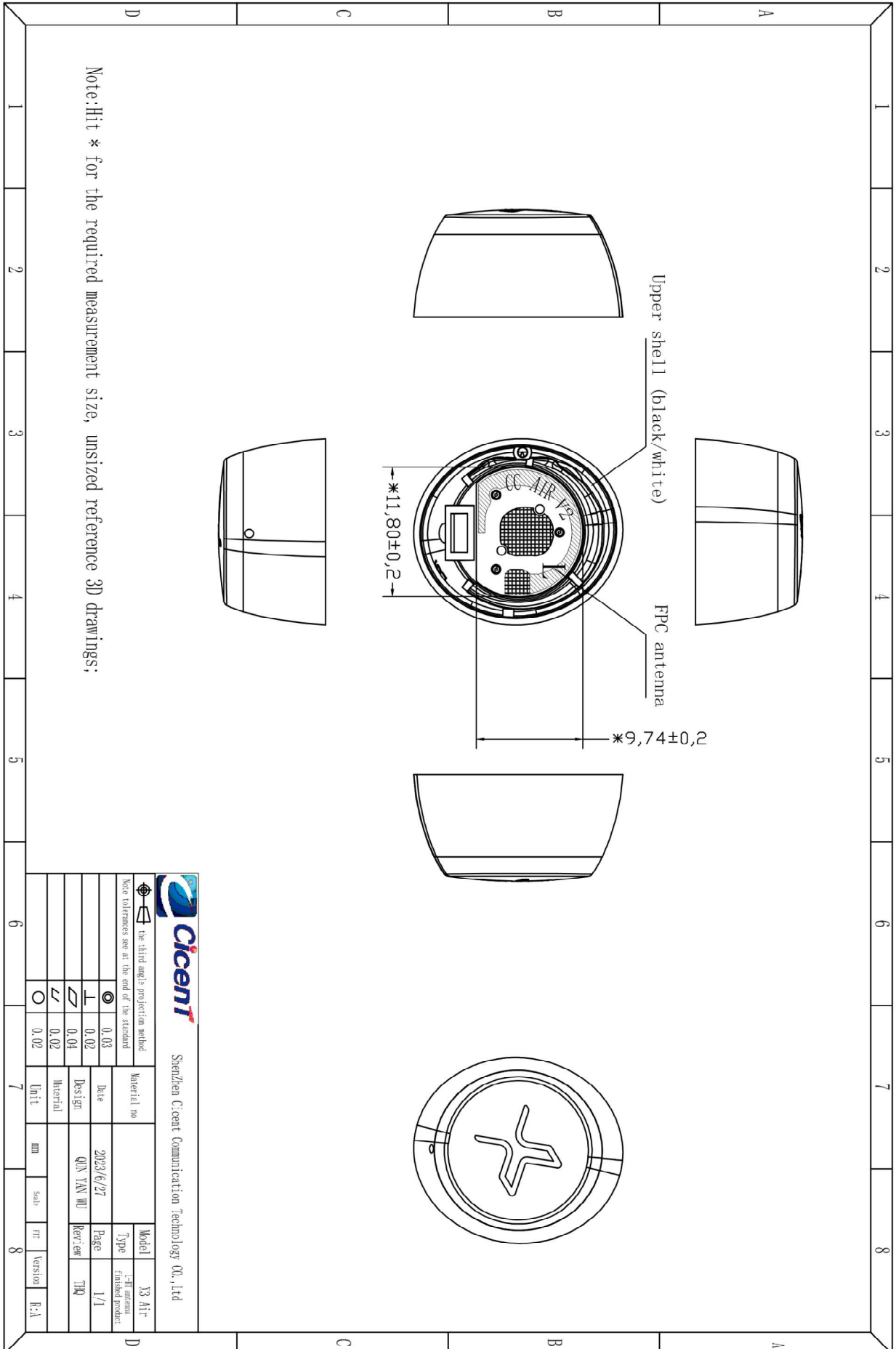
2. Install the battery onto the motherboard, with the ear facing towards the feed point



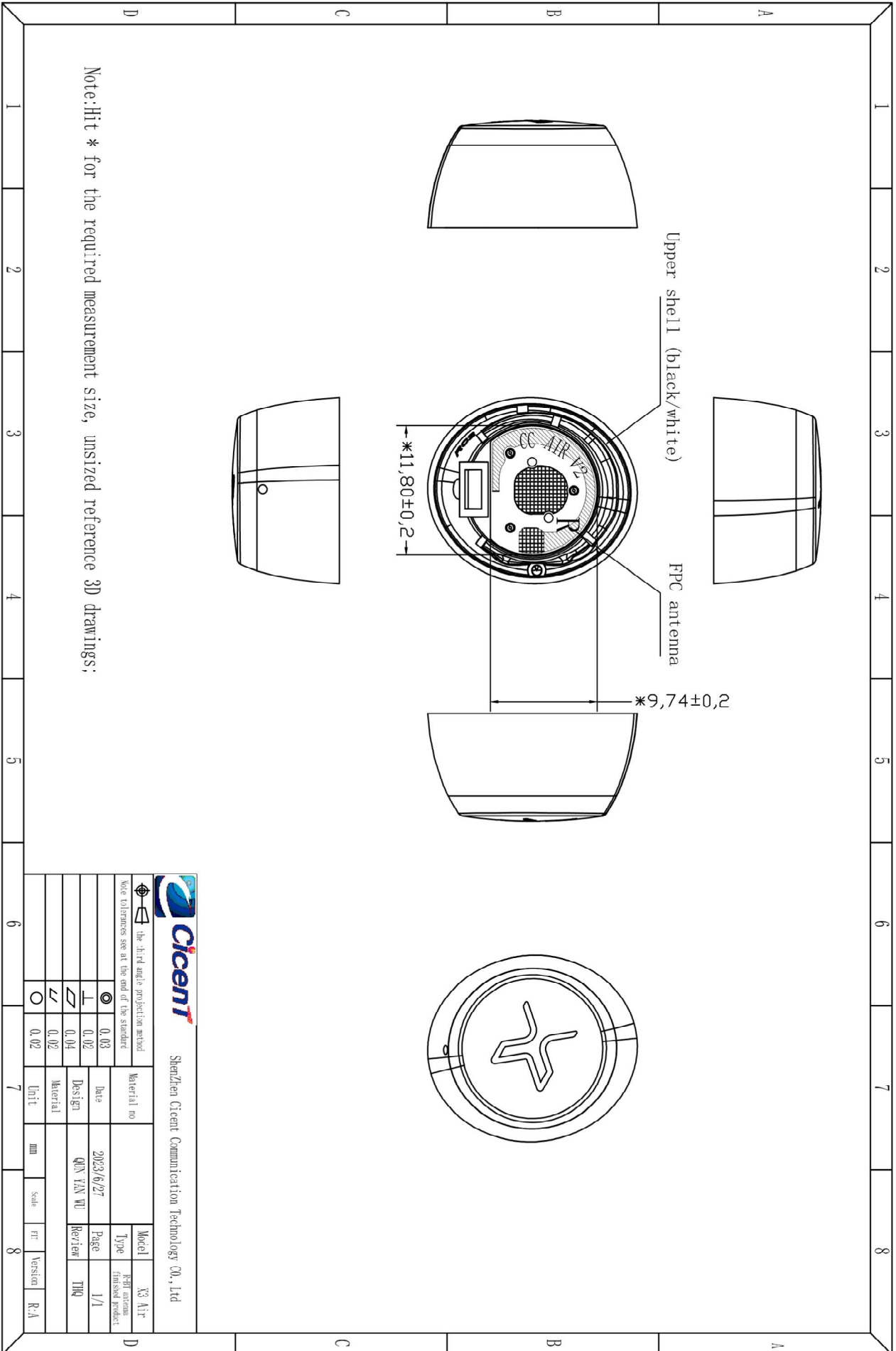
3. Install the battery onto the motherboard, smooth the battery cables on the other side, and try to maintain the state as shown in the picture, so that it is located on the edge



IV: Structure file



		Shenzhen Cicent Communication Technology Co., Ltd	
	the third angle projection method	Material no	Model
	Note: Tolerances see at the end of the standard	Date	Type
		2023/6/27	1st drawing
		Design	Revision
		QIN TAN WU	1/1
		Material	TRQ
		Unit	
		mm	
		mm	
		mm	



		ShenZhen Cicent Communication Technology CO., Ltd	
		The third angle projection method	
Note: tolerances see at the end of the standard			
Material no	0.03	Date	2023/6/27
Model	CC Air	Design	QIN YAN WU
Type	High accuracy finished product	Page	1/1
Material		Review	TMG
Unit	mm	Scale	1:1
Version	R.A	Version	