



Antenna Part Specification

Customer name:	EDIFIER
Project name:	TWS1 ANC
Material category:	BT antenna
Version:	V1.0
Date:	2023.03.24



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Change record			
Compile / change date	Reason for change	Changed content	Version
2023.03.24	First edition	First edition	V1.0

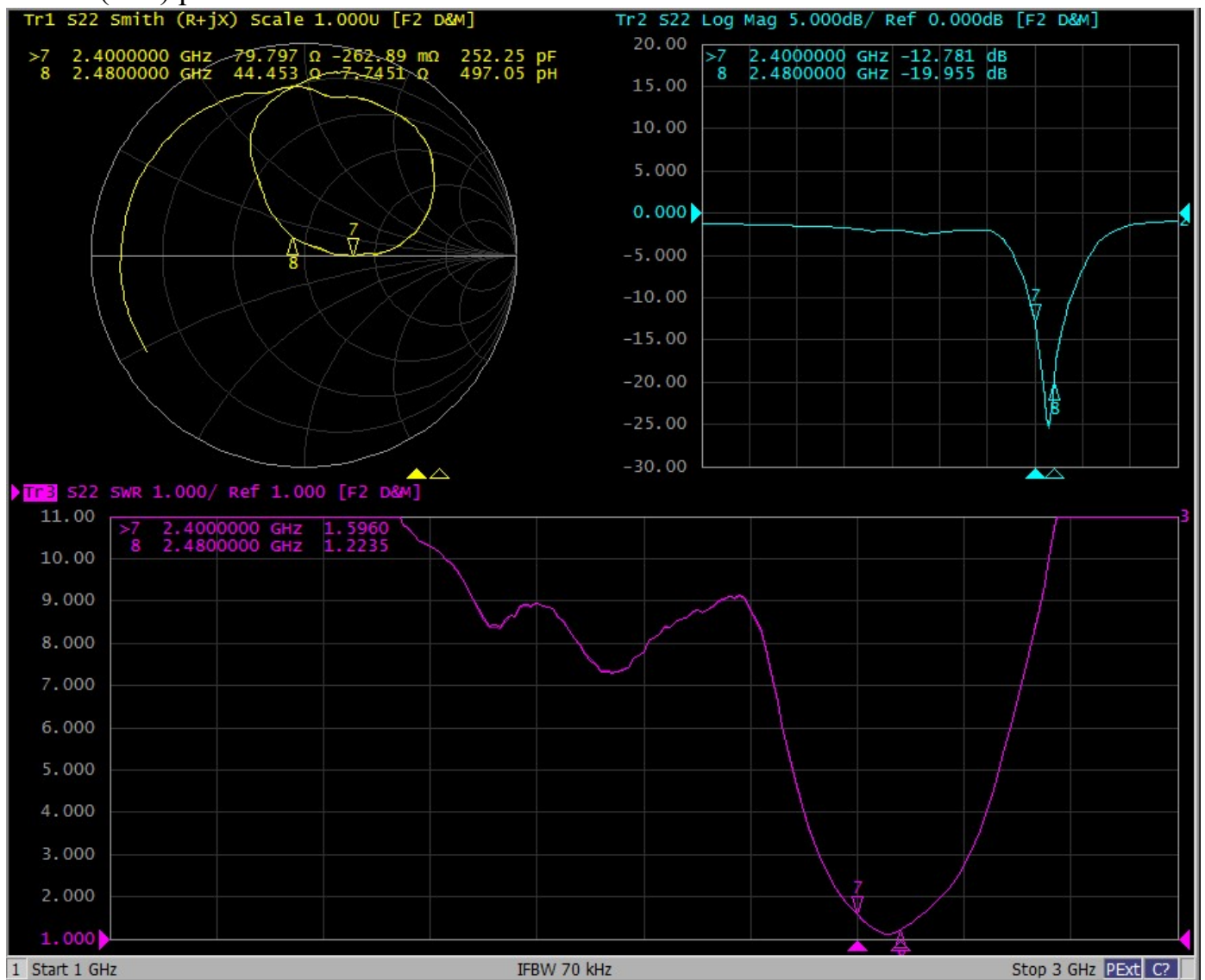


I: The report of passive data



Angilent E5071C

VSWR(S11) parameter (L) :

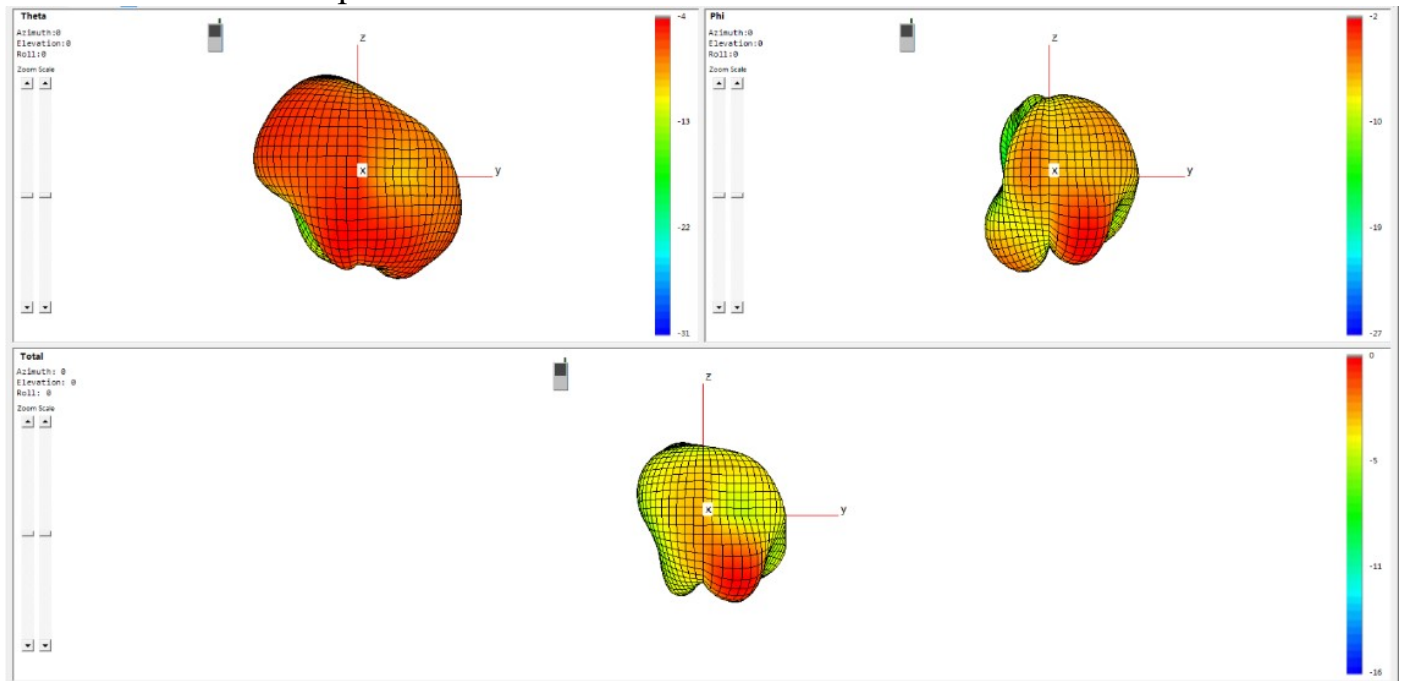




Efficiency:

2400-2480 MHz (L)			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	24%	-6.3	-0.7
2410	23%	-6.4	-0.9
2420	22%	-6.6	-1.1
2430	23%	-6.5	-1.0
2440	22%	-6.6	-1.1
2450	24%	-6.2	-0.7
2460	26%	-5.9	-0.4
2470	25%	-6.0	-0.5
2480	25%	-6.0	-0.4
Average value	24%	-6.3	-0.7

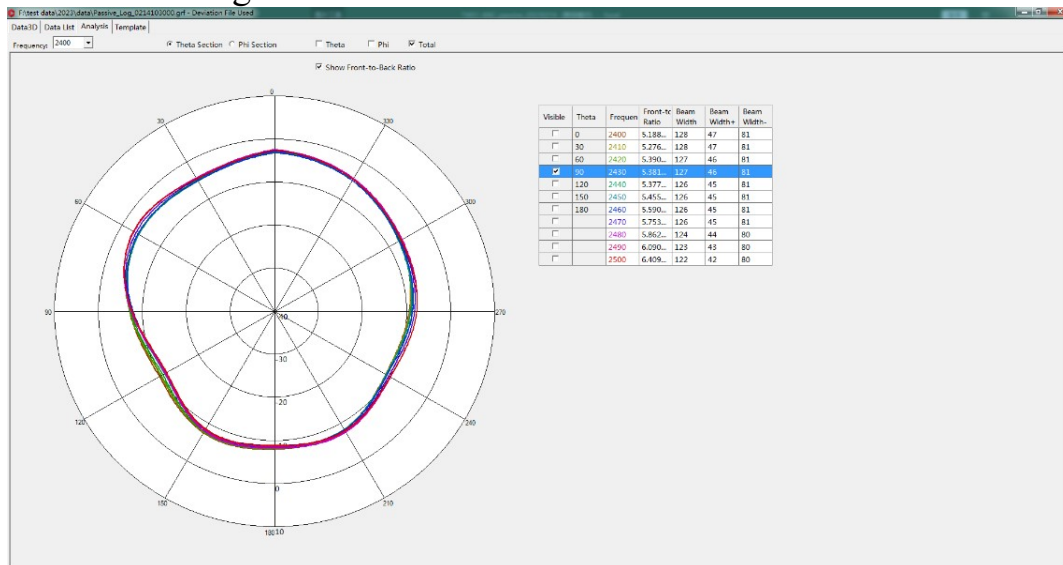
3D Antenna radiation pattern (L) :



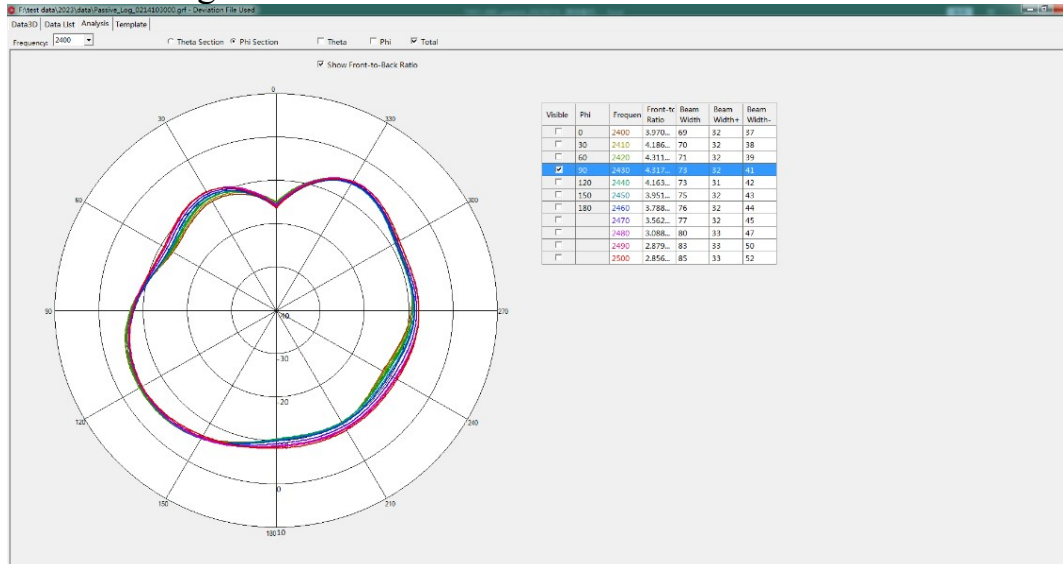


Antenna radiation pattern (L) :

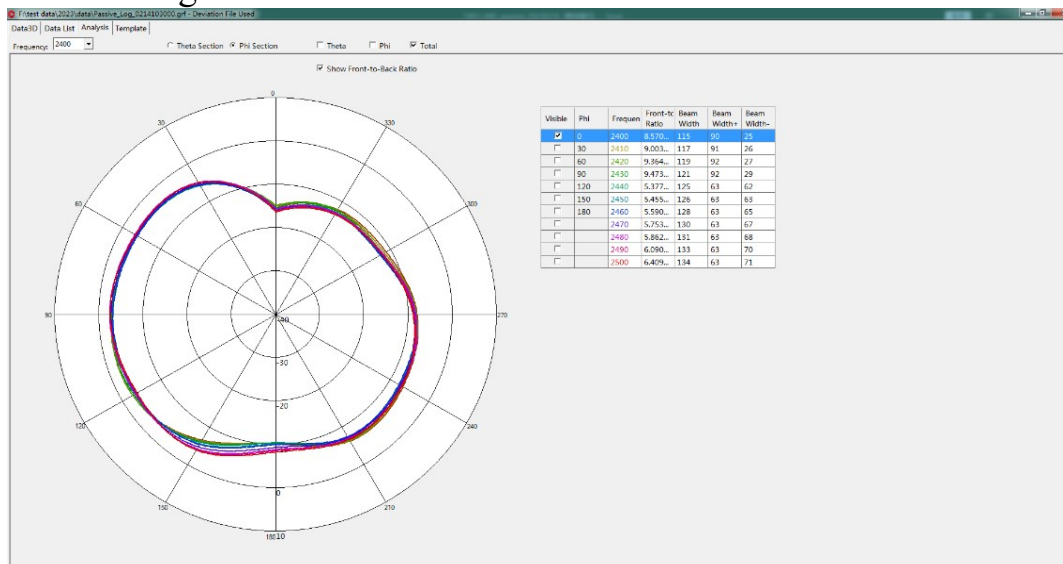
Theta=90.00deg



Phi=90.00deg

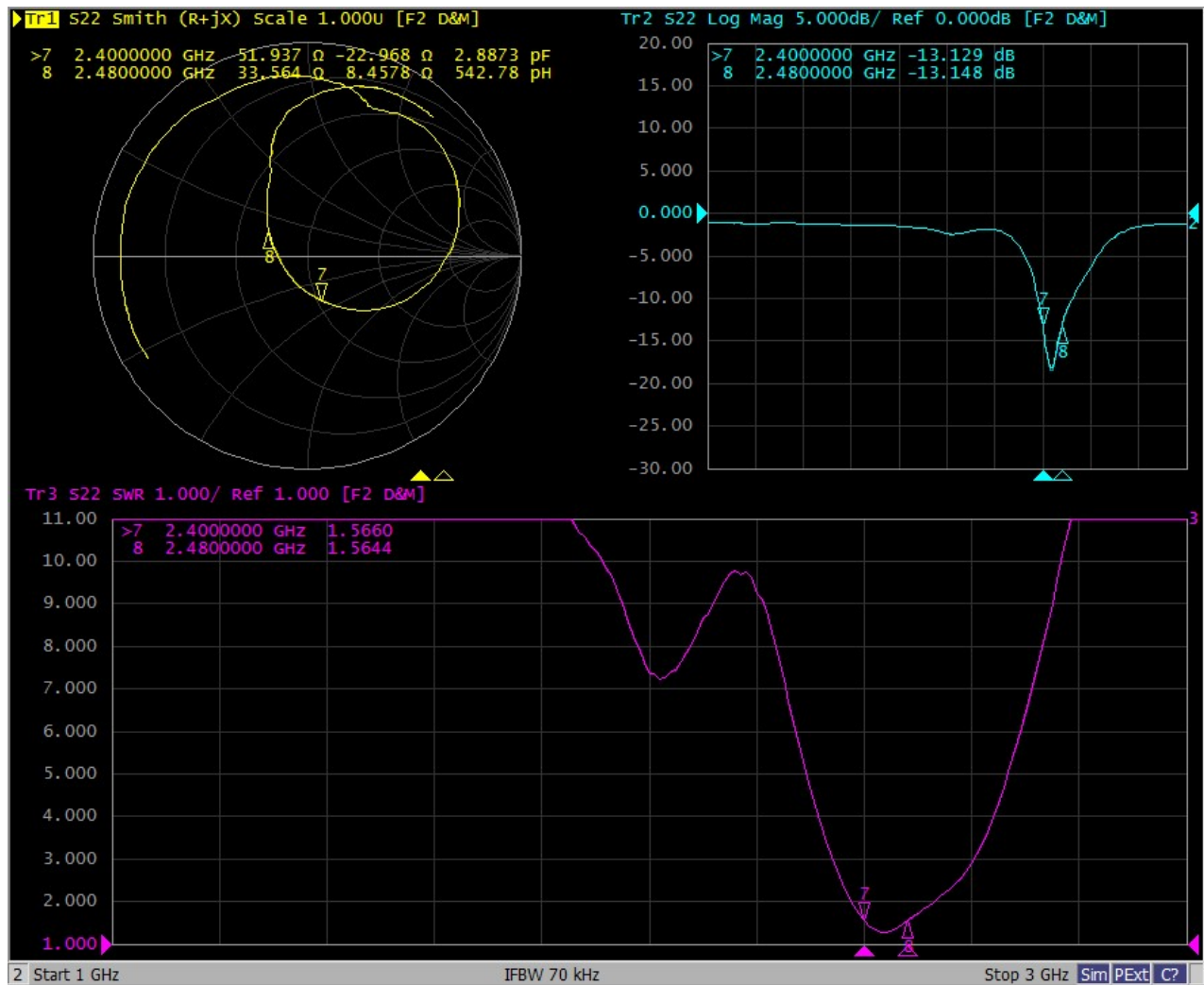


Phi=0.00deg





VSWR(S11) parameter (R) :

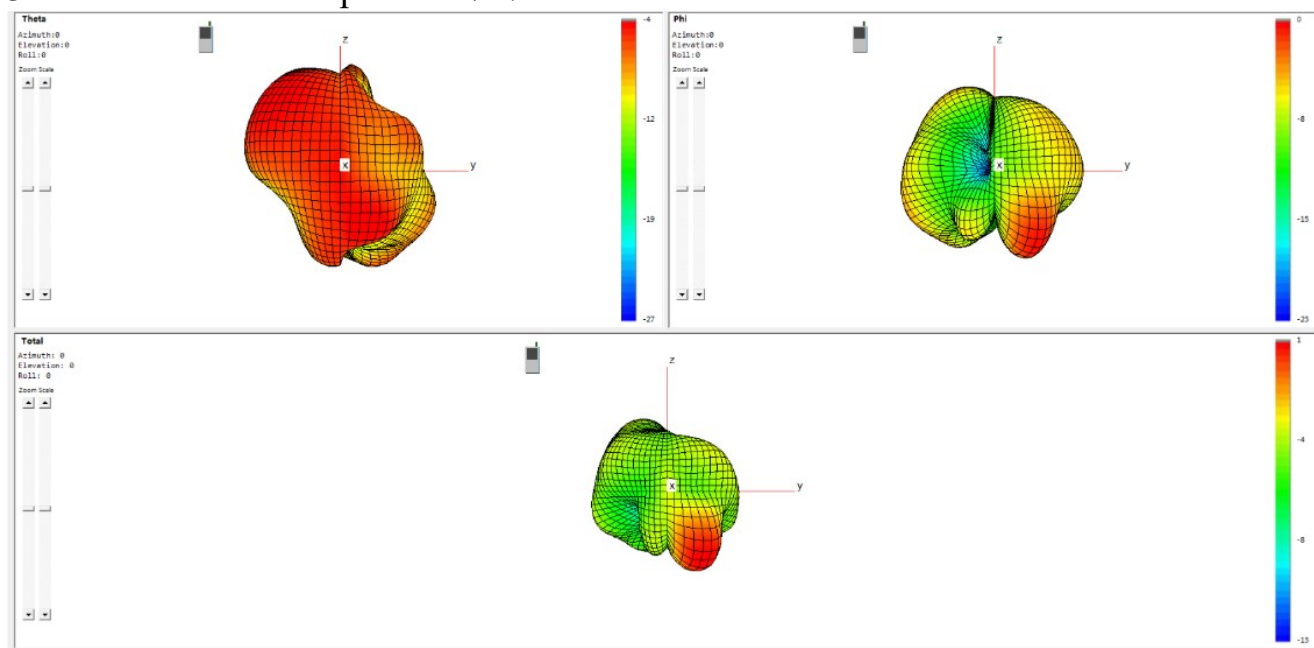


Efficiency:

2400-2480 MHz (R)			
Frequency (MHz)	Efficiency	Efficiency (dB)	Gain (dBi)
2400	32%	-5.0	0.8
2410	32%	-5.0	0.7
2420	32%	-5.0	0.6
2430	31%	-5.1	0.4
2440	30%	-5.3	0.2
2450	30%	-5.2	0.2
2460	30%	-5.3	0.1
2470	32%	-4.9	0.5
2480	34%	-4.6	0.7
Average value	31%	-5.0	0.5

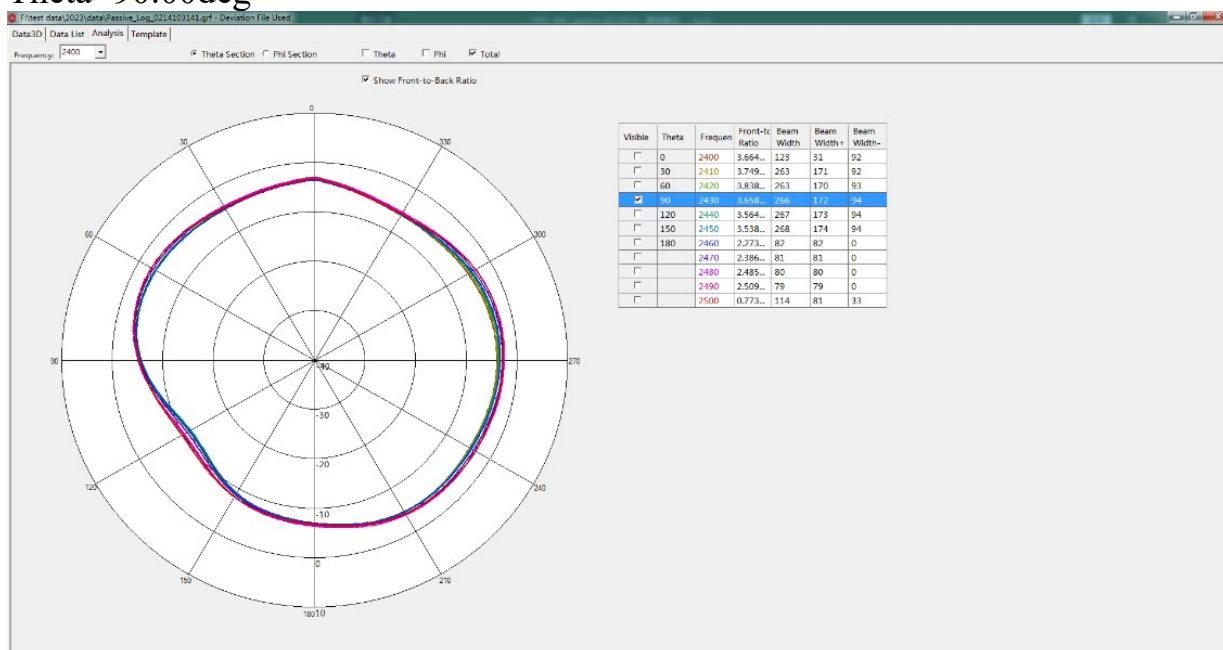


3D Antenna radiation pattern (R) :



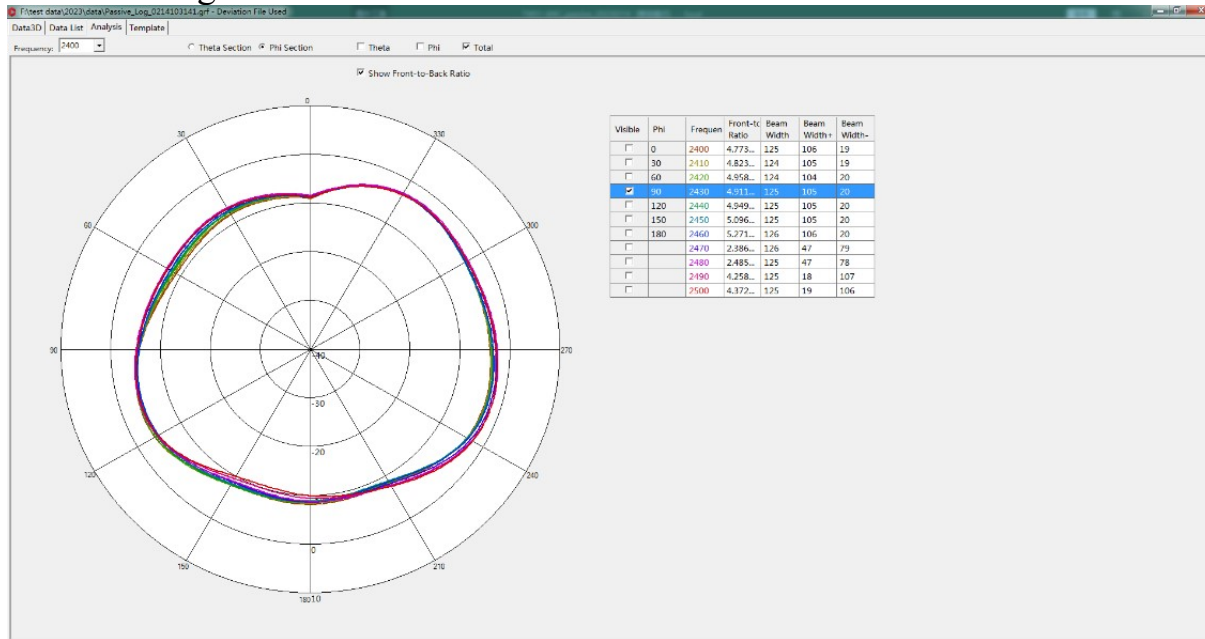
Antenna radiation pattern (R) :

Theta=90.00deg

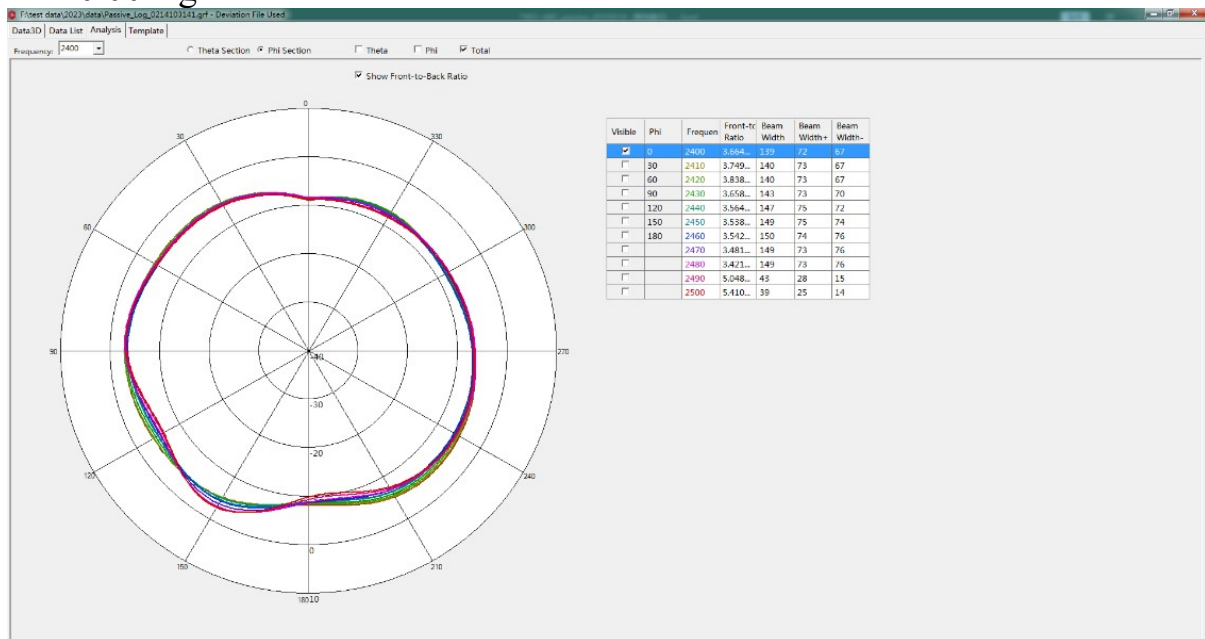




Phi=90.00deg



Phi=0.00deg





II: 3D Active test report of antenna

	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	5.7	-88.5
	CH 39	6.5	-88.9
	CH 78	5.2	-88.0

	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	6.1	-89.0
	CH 39	6.7	-89.3
	CH 78	6.1	-88.5

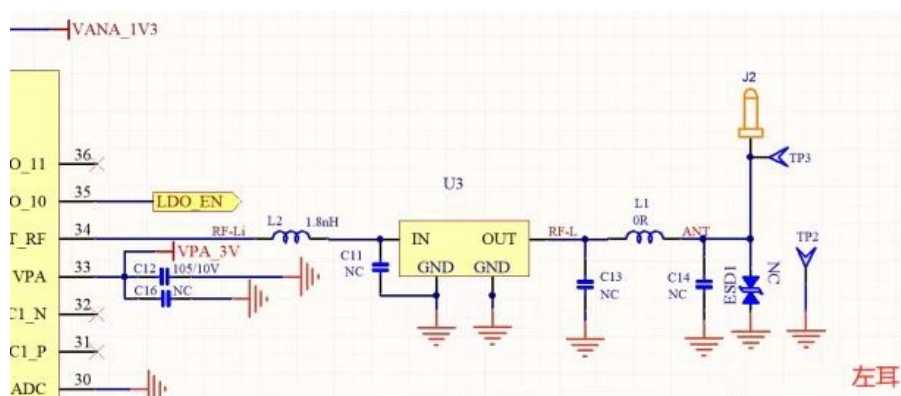


OTA Standard Chamber

III: Matching circuit

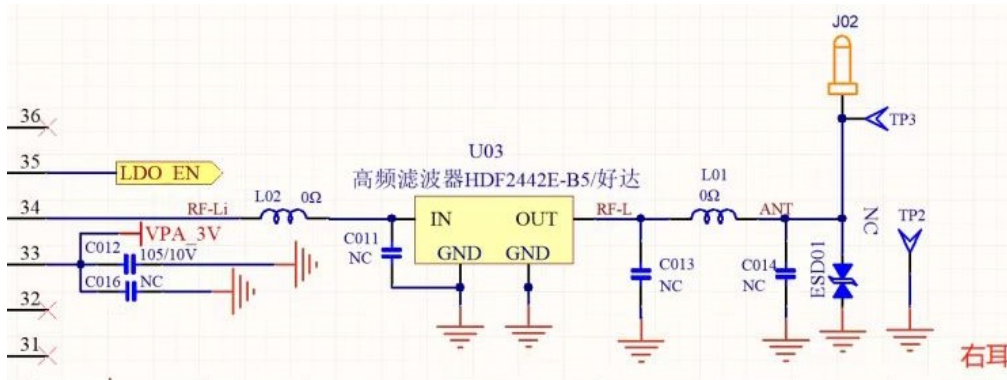
L:

Element	Value	Element	Value
C14	N/C	C11	N/C
L1	3.3nH	L2	1.8nH
C13	N/C		

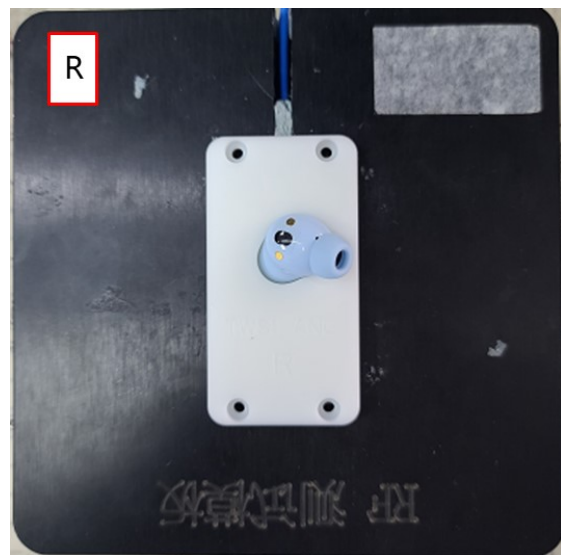


R:

Element	Value	Element	Value
C014	N/C	C011	N/C
L01	4. 7nH	L02	0Ω
C013	N/C		



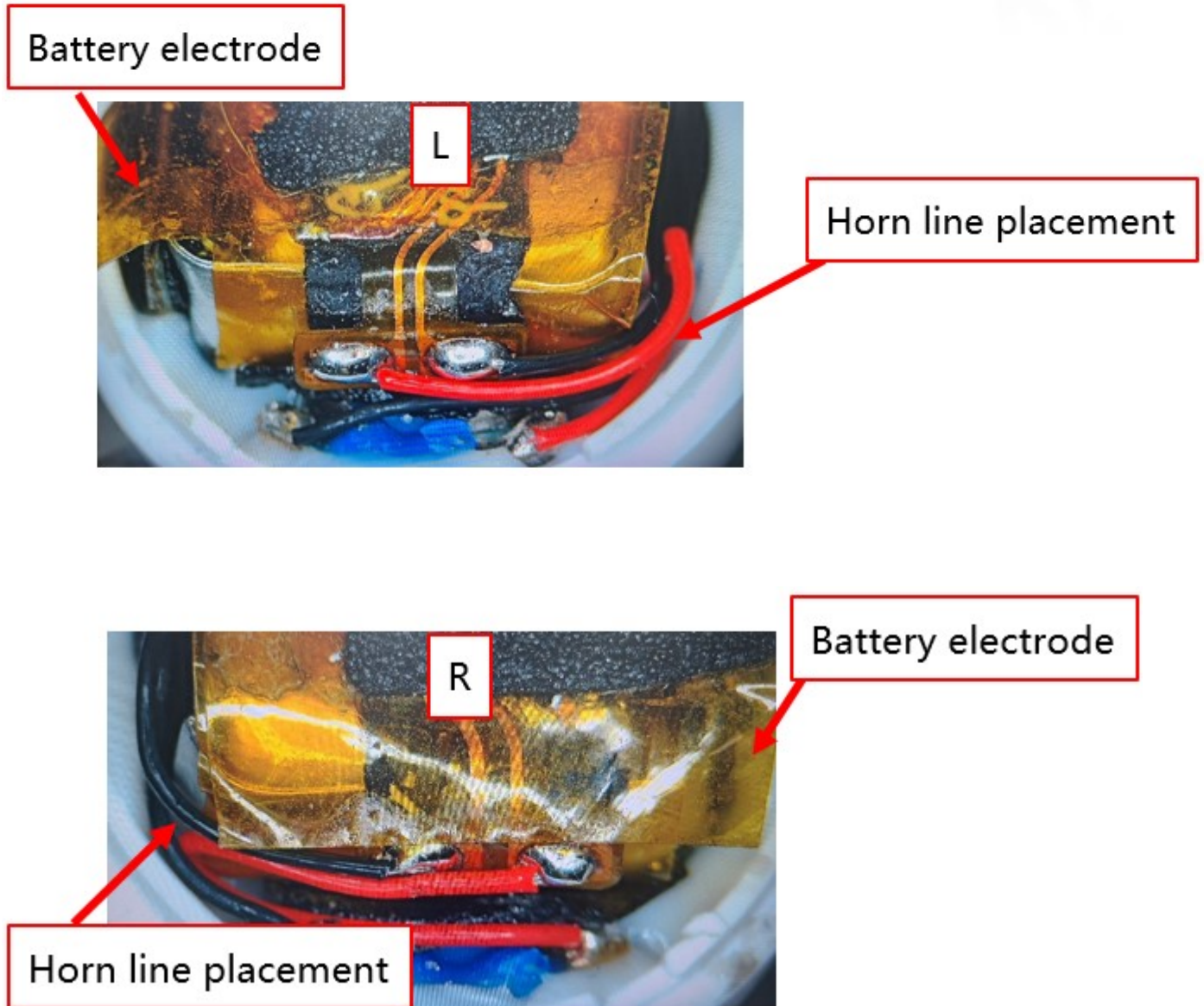
IV: Coupling test location





V: Installation method of horn wire

18mm horn line placement:





VI: Structure file

