

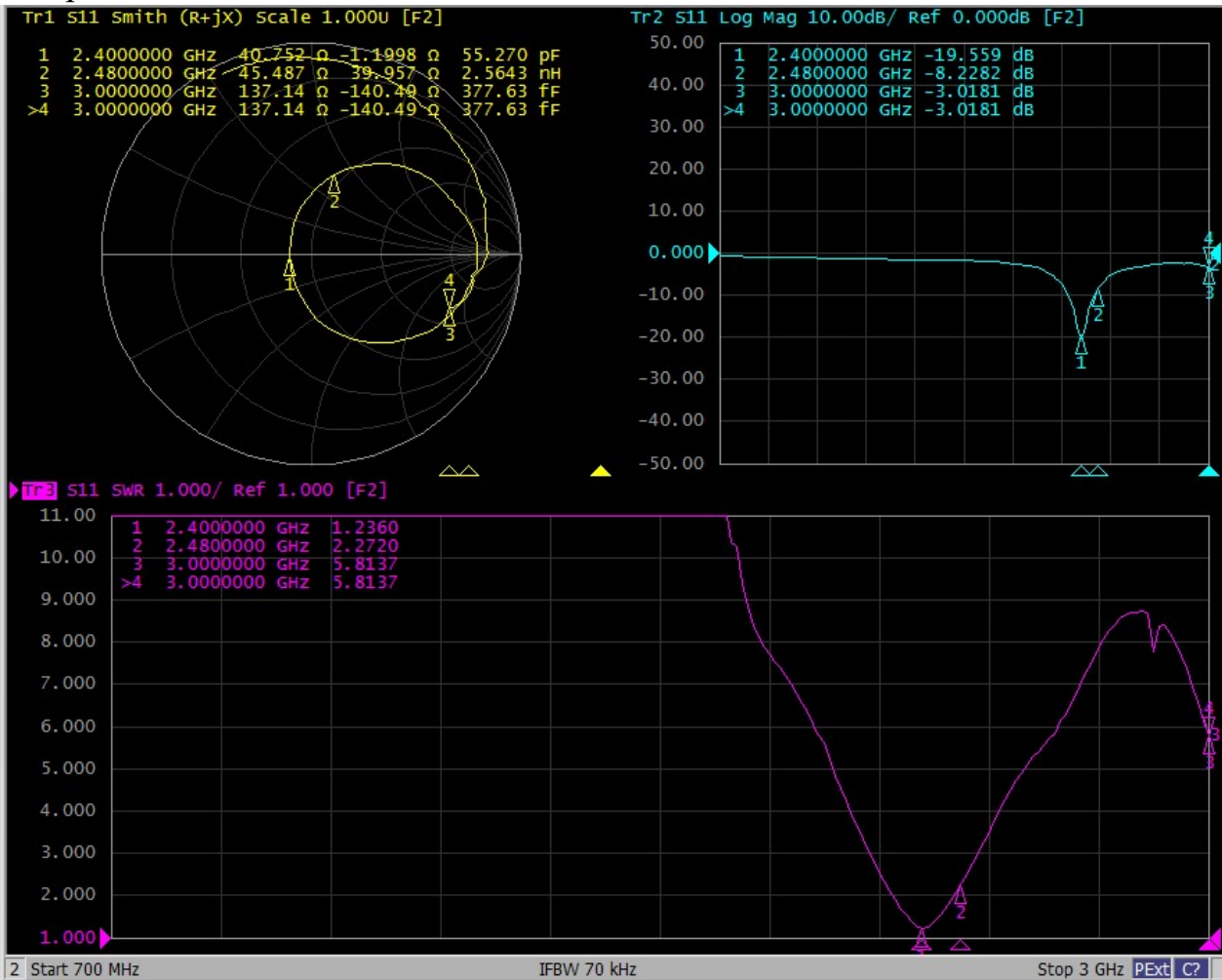


I: The report of passive data



Angilent E5071C

S11 parameter:





Efficiency:

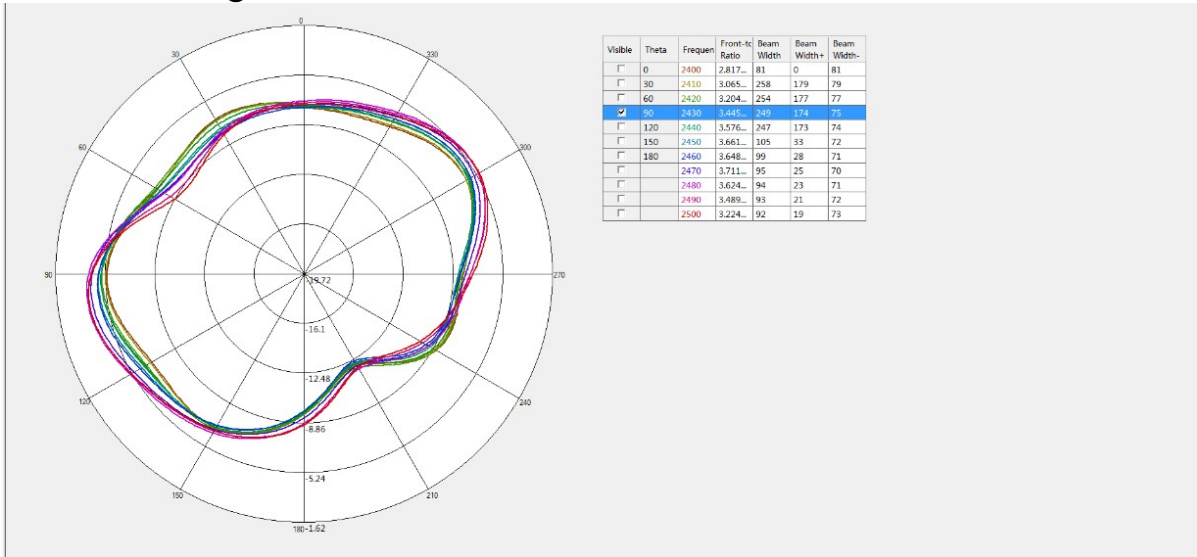
Free space			
Frequency (MHz)	Efficiency	Efficiency (dB )	Gain (dBi)
2400	20.67	-6.8	-3.5
2410	20.72	-6.8	-3.4
2420	21.08	-6.8	-3.2
2430	20.55	-6.9	-3.1
2440	20.22	-6.9	-2.9
2450	20.78	-6.8	-2.6
2460	20.53	-6.9	-2.4
2470	22.04	-6.6	-2.0
2480	23.06	-6.4	-1.7
Average value	21.07	-6.77	-2.75

Headform			
Frequency (MHz)	Efficiency	Efficiency (dB )	Gain (dBi)
2400	9.31	-10.3	-3.2
2410	9.27	-10.3	-3.2
2420	9.29	-10.3	-3.3
2430	8.93	-10.5	-3.4
2440	8.57	-10.7	-3.6
2450	8.55	-10.7	-3.7
2460	8.18	-10.9	-3.9
2470	8.47	-10.7	-3.8
2480	8.51	-10.7	-3.9
Average value	8.79	-10.57	-3.57

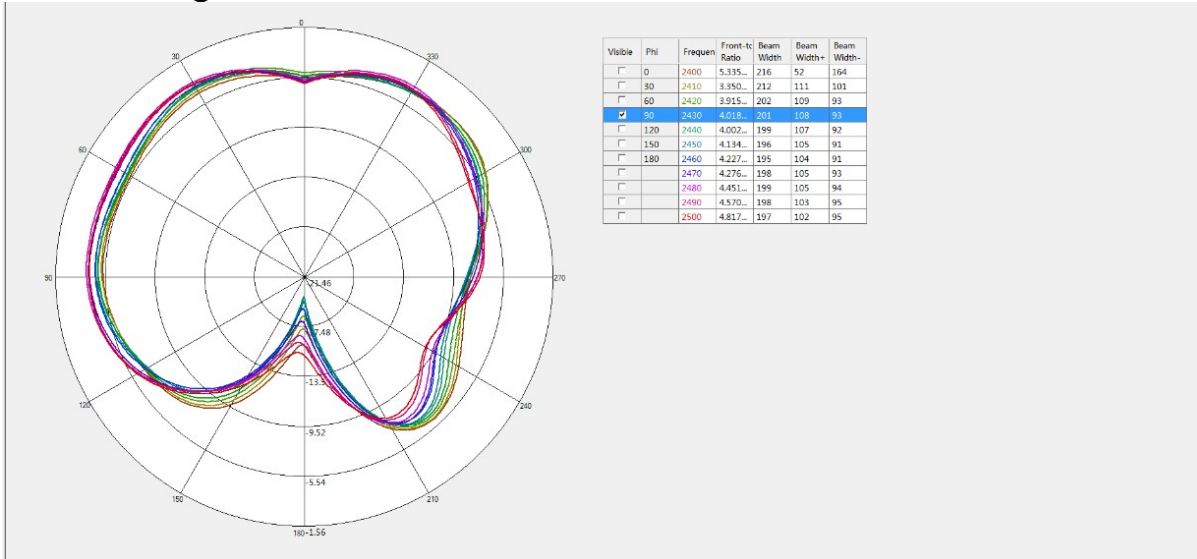


Antenna radiation pattern (Free space) :

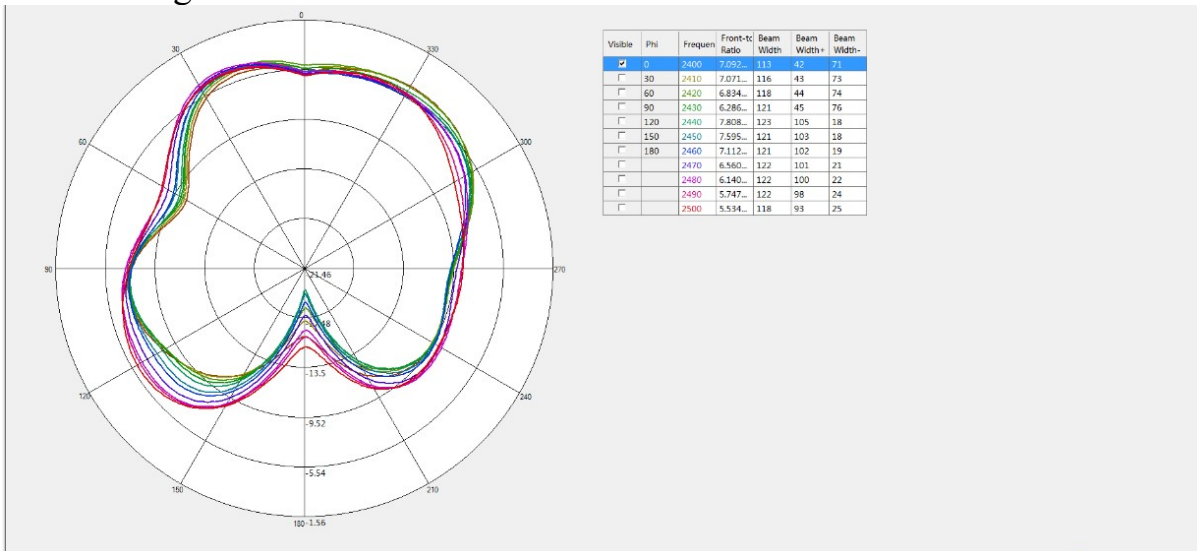
Theta=90.00deg



Phi=90.00deg



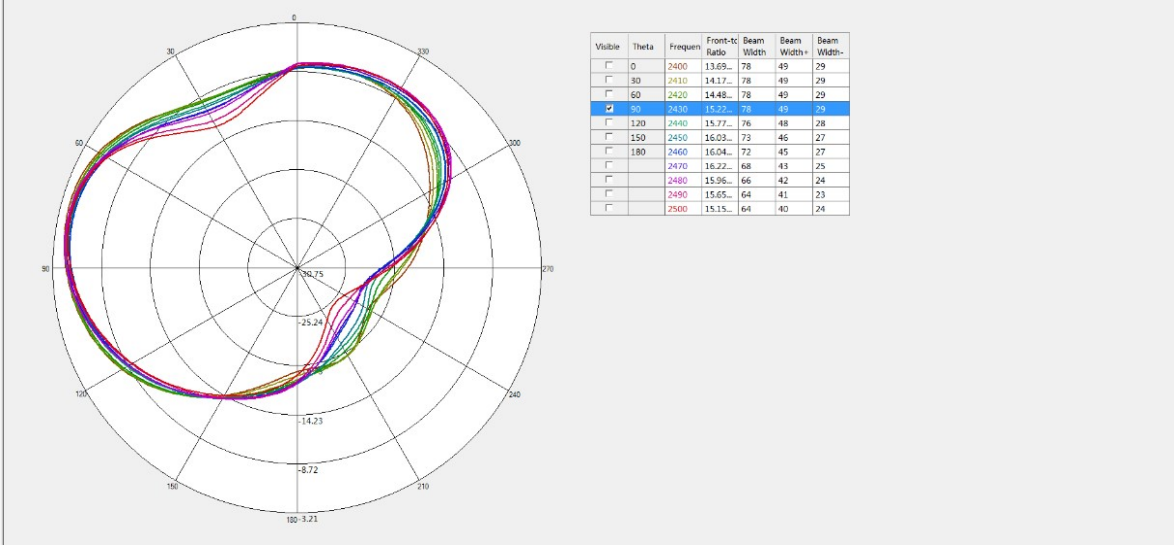
Phi=0.00deg



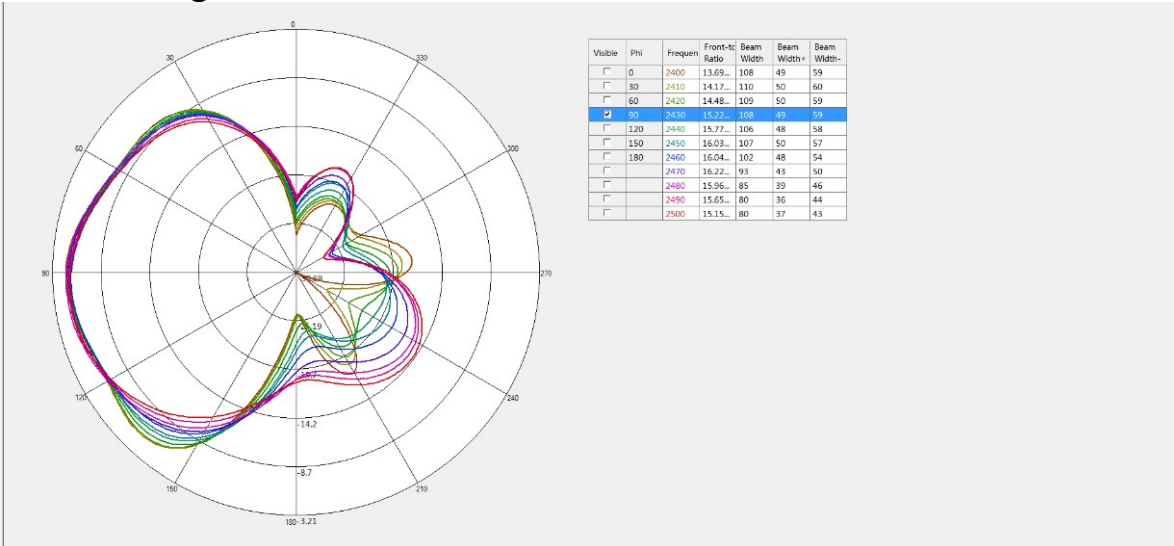


Antenna radiation pattern (Headform) :

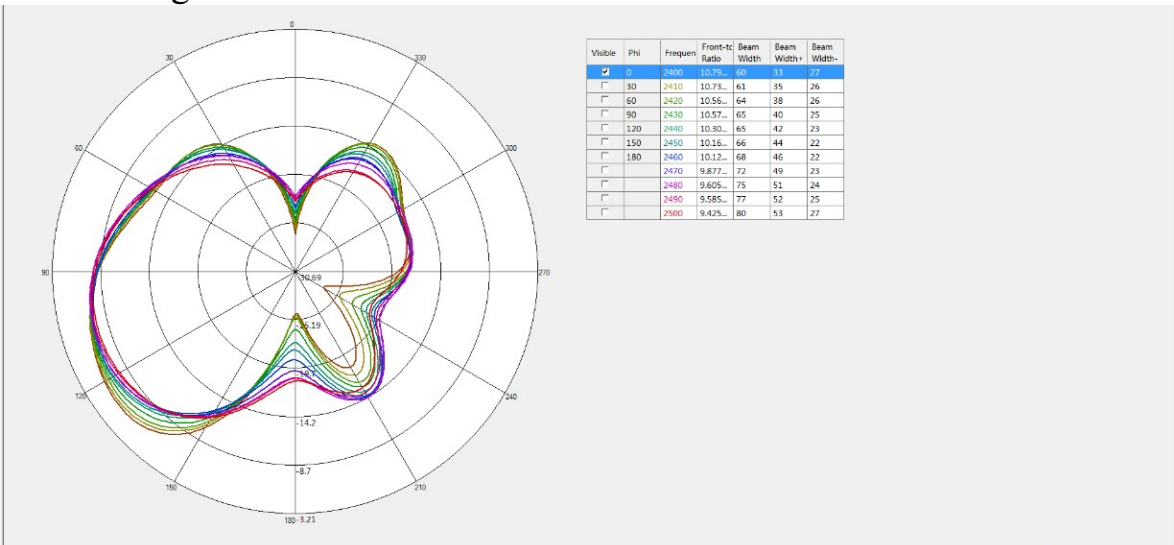
Theta=90.00deg



Phi=90.00deg

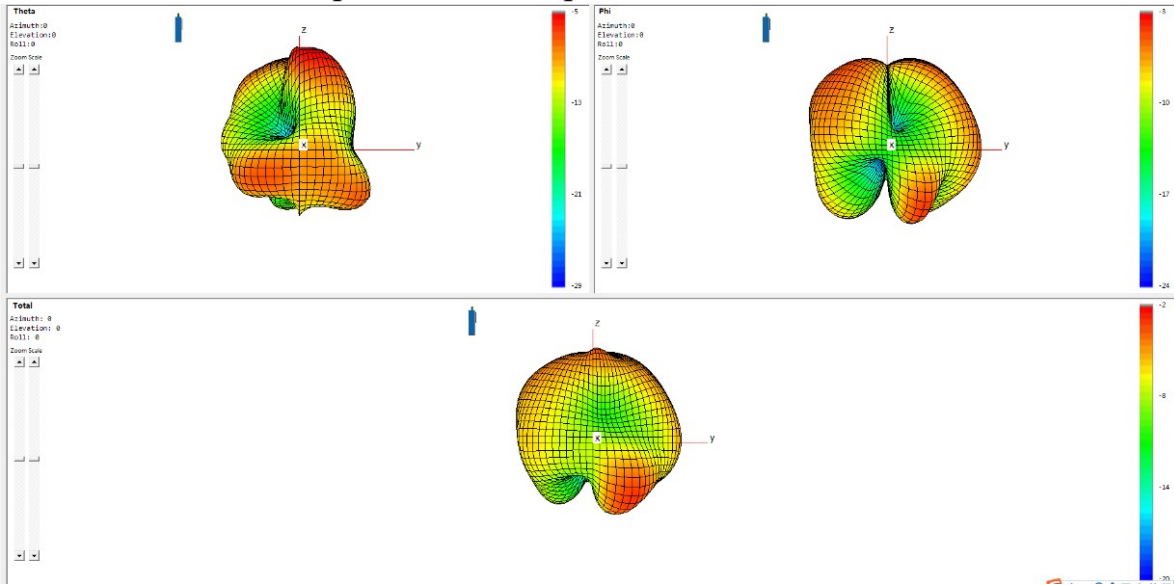


Phi=0.00deg

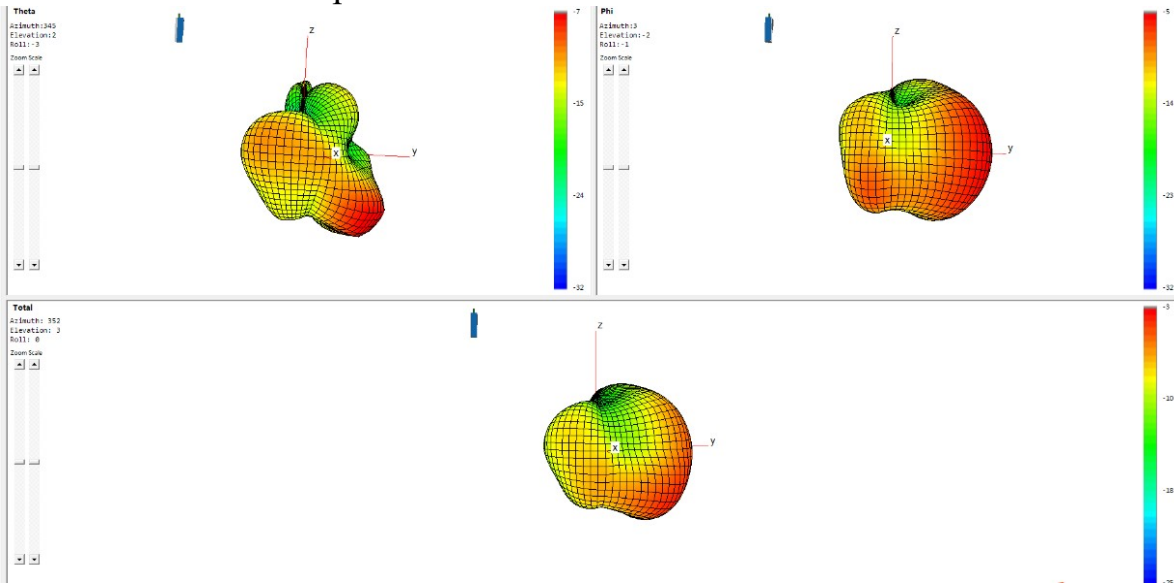




### 3D Antenna radiation pattern (Free space) :



### 3D Antenna radiation pattern (Headform) :

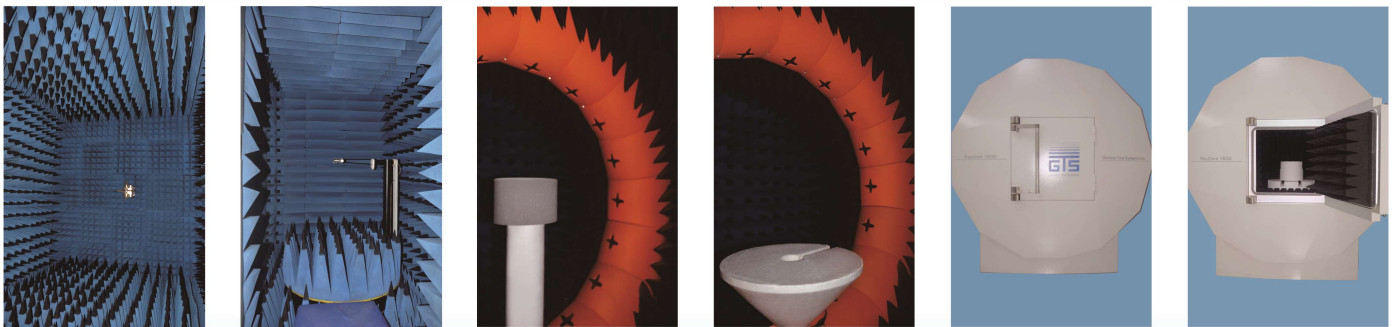




II: 3D Active test report of antenna

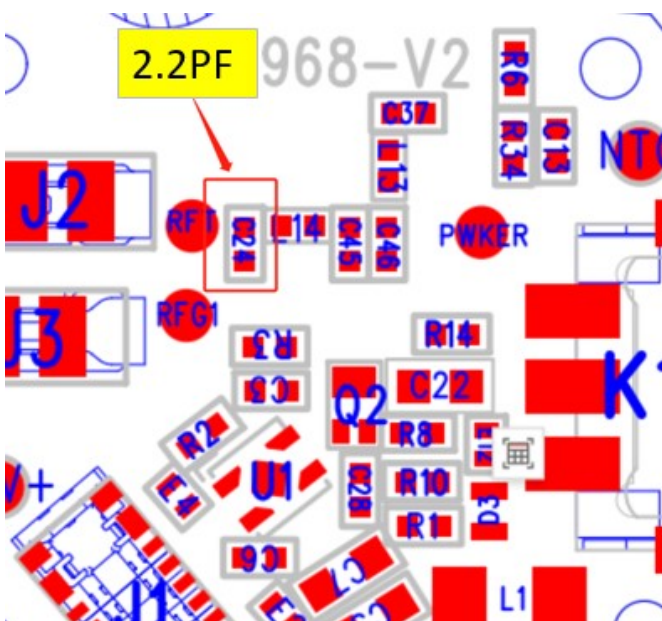
Free space	Channel	TRP (dBm)	TIS(dBm)
R	CH 0	8.5	-92.5
	CH 39	8.2	-92.1
	CH 78	7.6	-91.7

Headform	Channel	TRP(dBm)	TIS (dBm)
R	CH 0	3.2	-86.3
	CH 39	2.4	-85.8
	CH 78	1.5	-85.4



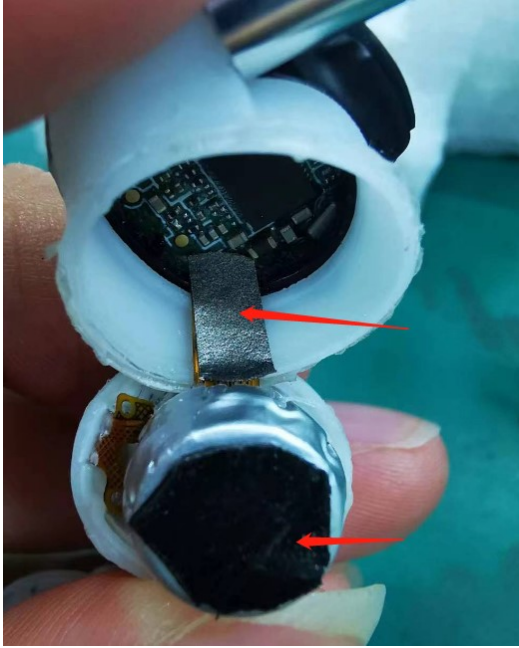
OTA Standard Chamber

III: Matching circuit





#### IV: Environmental treatment plan



1. Stick the same width of absorbing material near the BTB seat of the main FPC to the battery position.
2. Stick PET foam in the direction near the chip to separate the battery from the chip and prevent direct contact.



V: Structure file:

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