



Antenna Part Specification

Project name:	RZ-T2 earphones
Material category:	BT antenna
Antenna type:	PIFA
Manufacturer:	Shenzhen Cicent Communication Technology Co., Ltd.
Manufacturer address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china
Version:	V1.0
Date:	2025.9.5



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Change record			
Compile / change date	Reason for change	Changed content	Version
2025.9.5	First edition	First edition	V1.0



I: The report of passive data

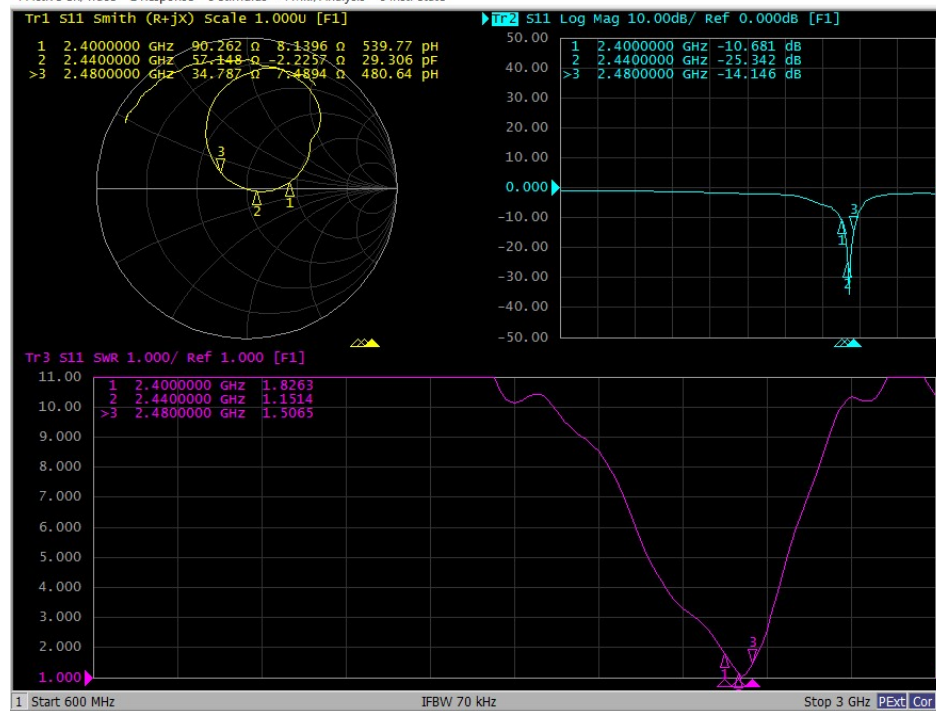


Angilent E5071C

antenna S11 parameter: (Left Ear - Free)

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

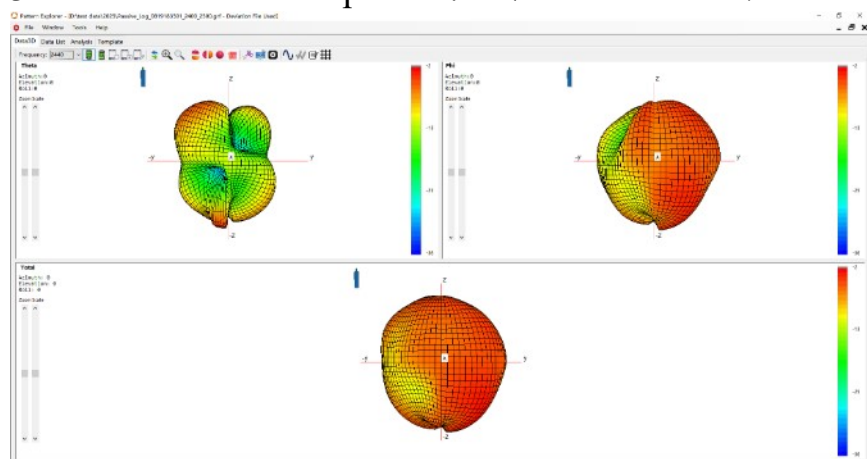




Efficiency: (Left Ear - Free)

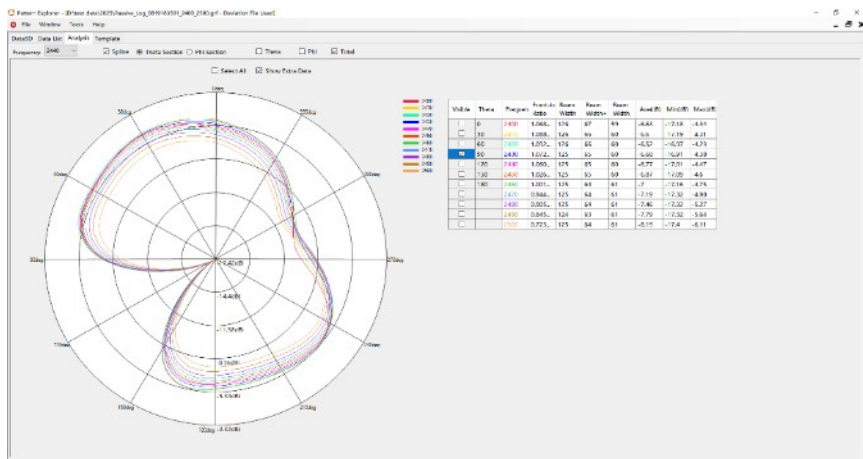
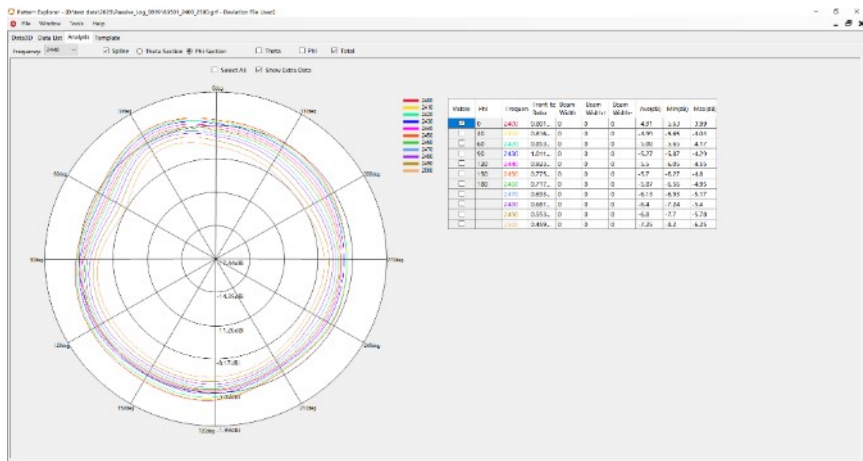
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-5.4	-2.4	28.6
2410	-5.4	-2.4	28.6
2420	-5.5	-2.4	28.5
2430	-5.6	-2.6	27.5
2440	-5.7	-2.7	26.7
2450	-5.9	-2.8	26.0
2460	-6.0	-3.0	25.1
2470	-6.2	-3.2	23.9
2480	-6.4	-3.5	22.7
AVG	-5.8	-2.8	26.4

3D Antenna radiation pattern: (Left Ear - Free)

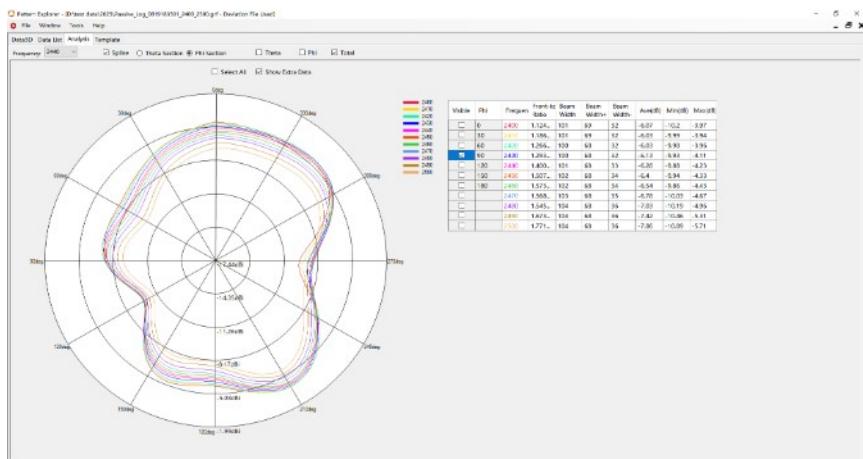


2D Antenna radiation pattern: (Left Ear - Free)

Theta=90°

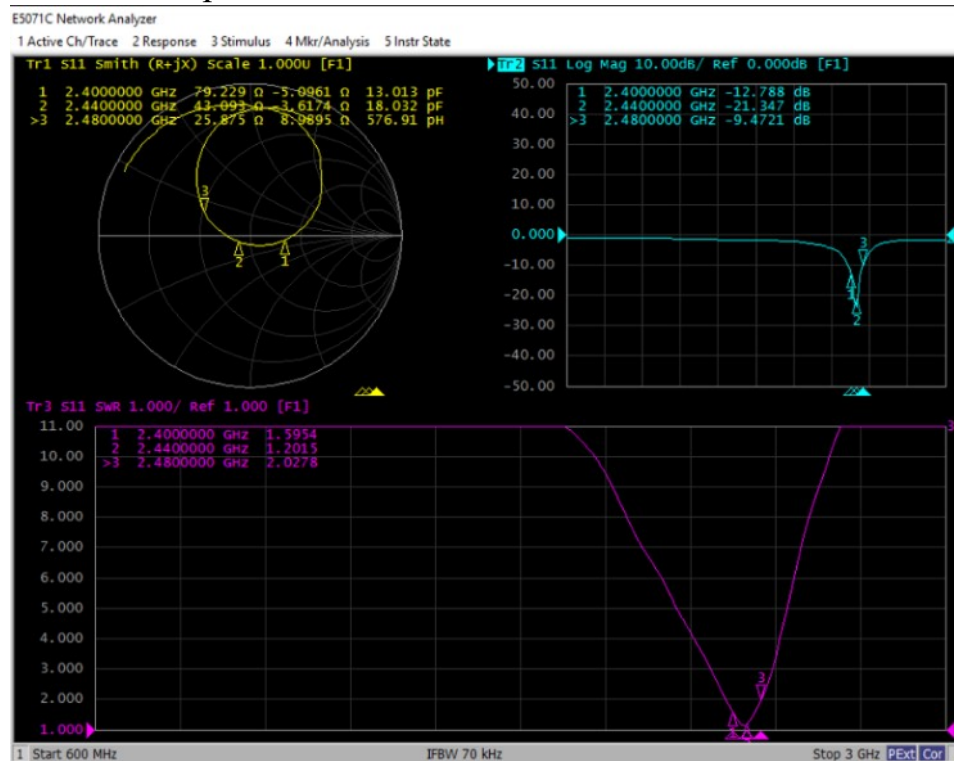
 $\Phi=0^\circ$ 

Phi=90°





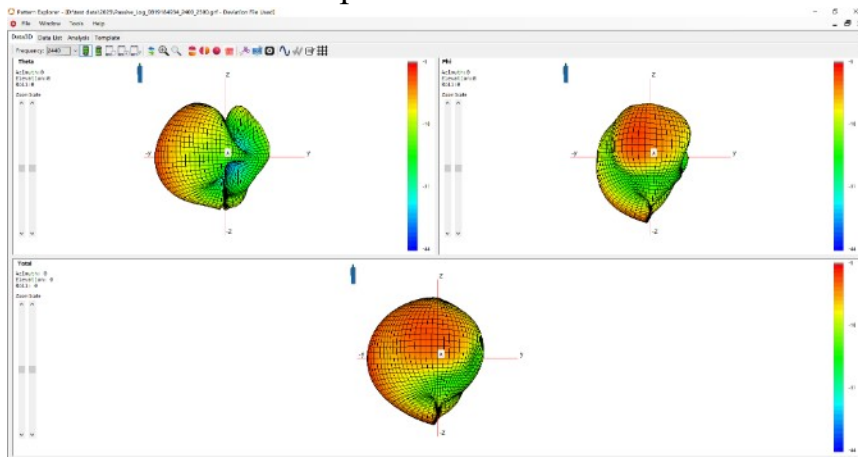
antenna S11 parameter: (Left Ear - Head)



Efficiency: (Left Ear - Head)

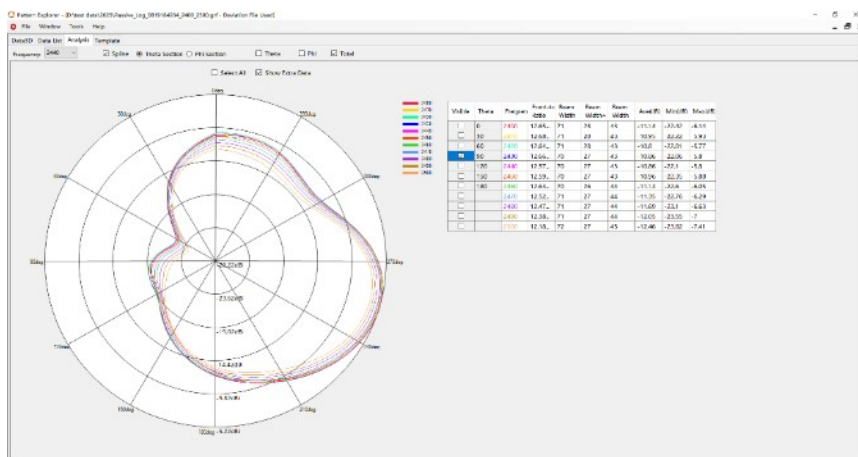
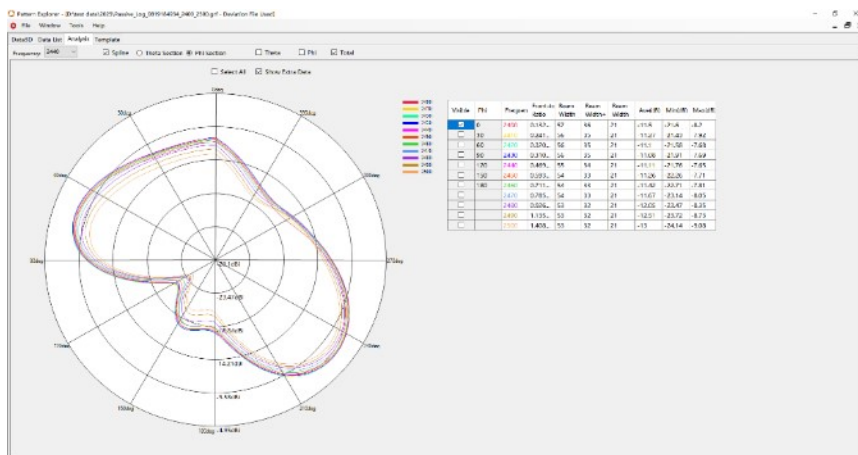
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-11.7	-6.1	6.8
2410	-11.5	-5.9	7.1
2420	-11.3	-5.8	7.4
2430	-11.4	-5.8	7.3
2440	-11.4	-5.8	7.3
2450	-11.5	-5.9	7.1
2460	-11.6	-6.1	6.9
2470	-11.9	-6.3	6.5
2480	-12.2	-6.6	6.0
AVG	-11.6	-6.0	6.9

3D Antenna radiation pattern: (Left Ear - Head)



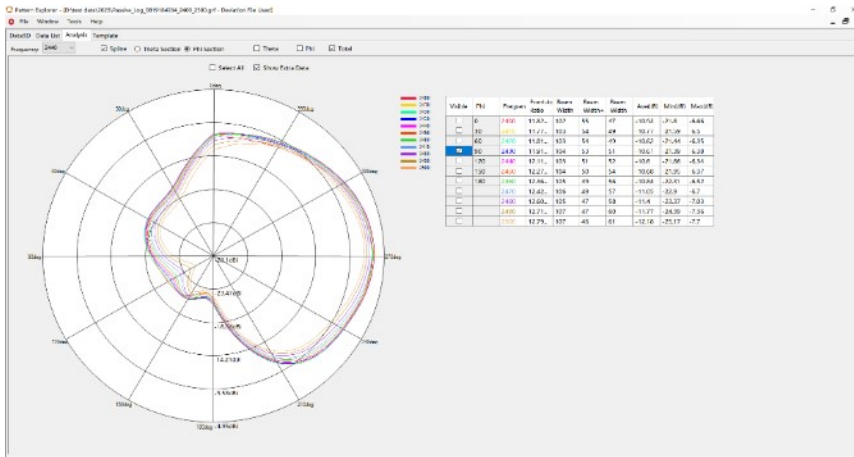
2D Antenna radiation pattern: (Left Ear - Head)

Theta=90°

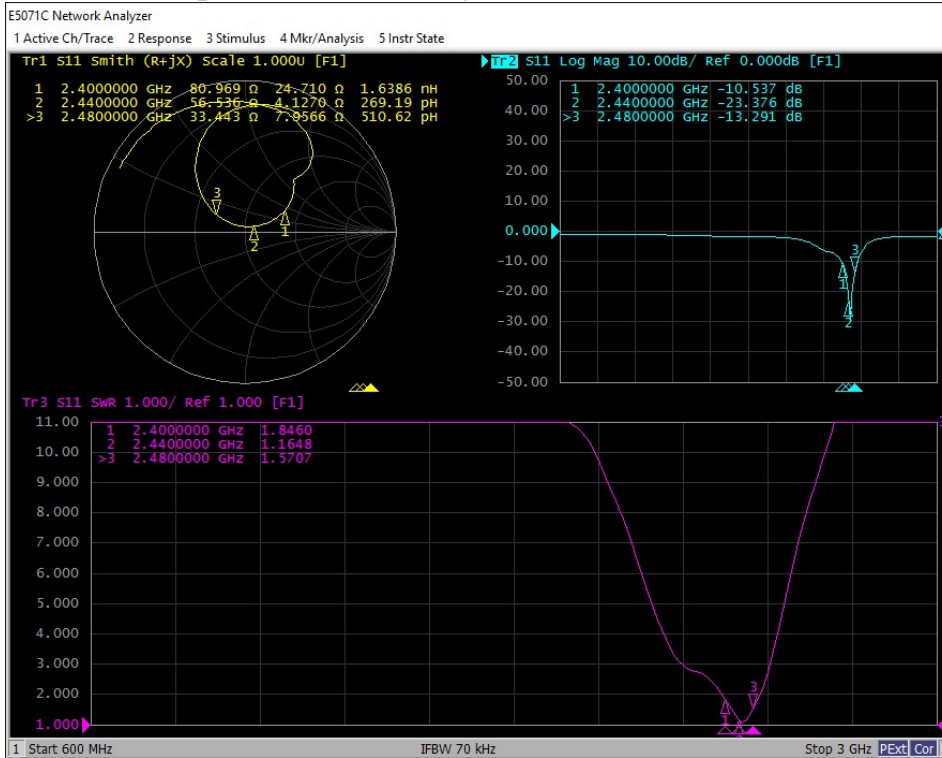
 $\Phi=0^\circ$ 



$\Phi=90^\circ$



antenna S11 parameter: (Right Ear - Free)

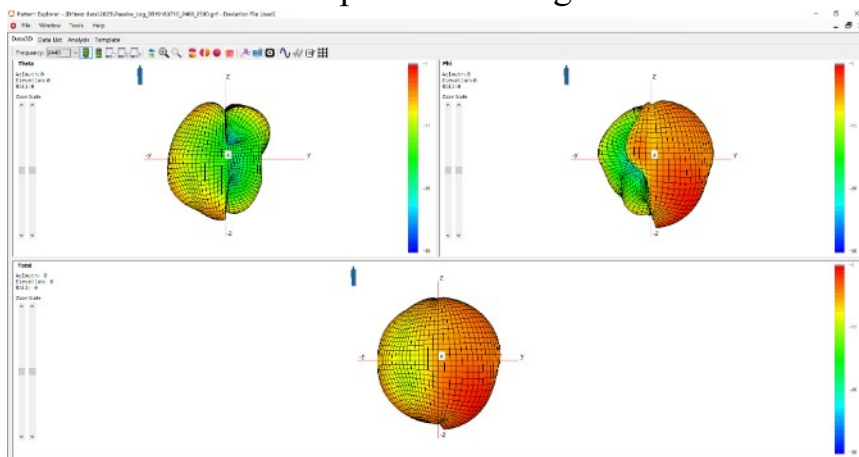




Efficiency: (Right Ear - Free)

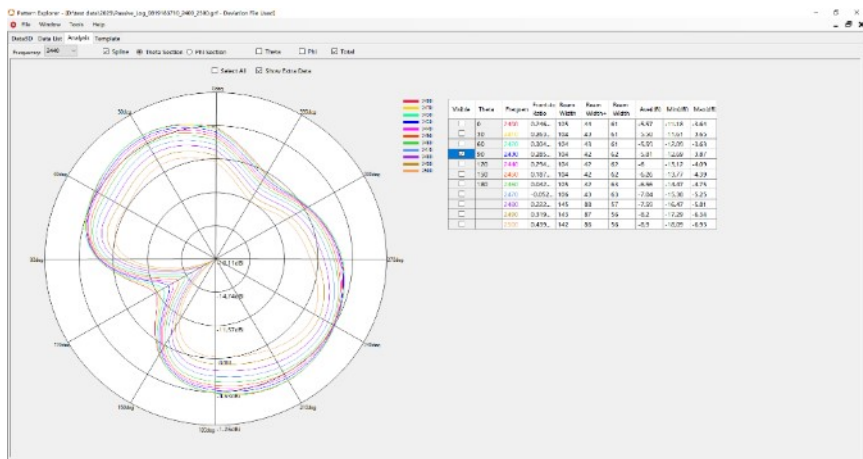
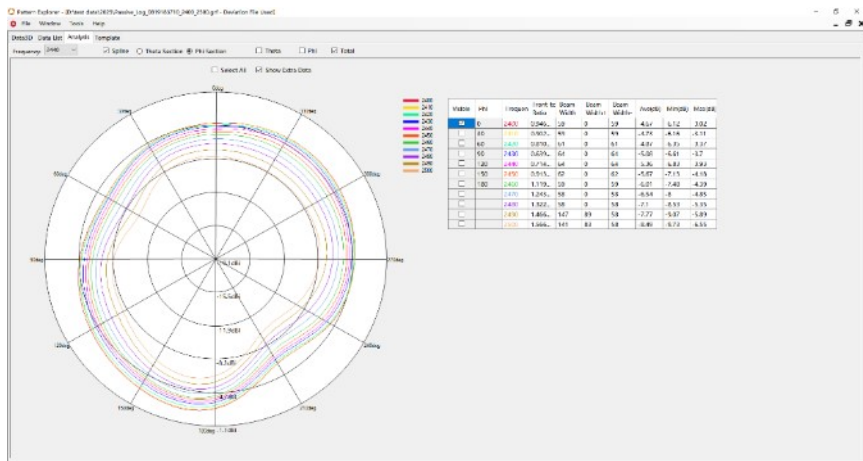
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-5.2	-1.4	30.1
2410	-5.2	-1.4	30.0
2420	-5.3	-1.5	29.5
2430	-5.5	-1.7	28.2
2440	-5.7	-1.9	26.7
2450	-5.8	-2.2	26.1
2460	-6.1	-2.5	24.3
2470	-6.2	-2.9	23.8
2480	-6.5	-3.4	22.3
AVG	-5.7	-2.1	26.8

3D Antenna radiation pattern: (Right Ear - Free)

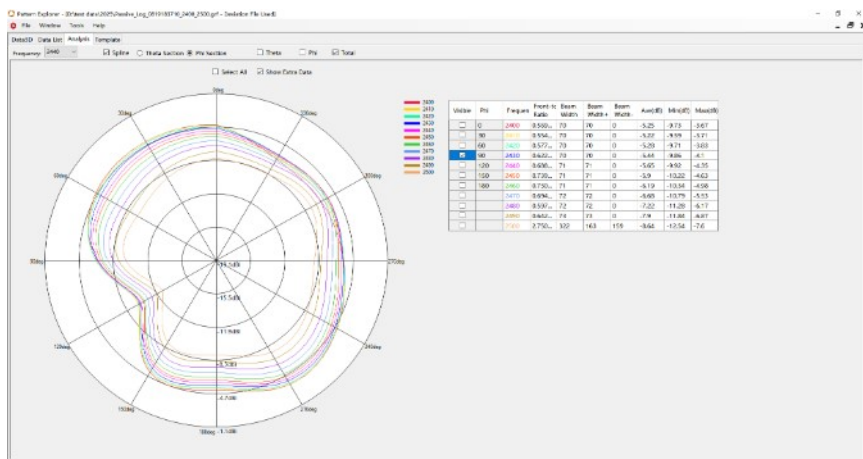


2D Antenna radiation pattern: (Right Ear - Free)

Theta=90°

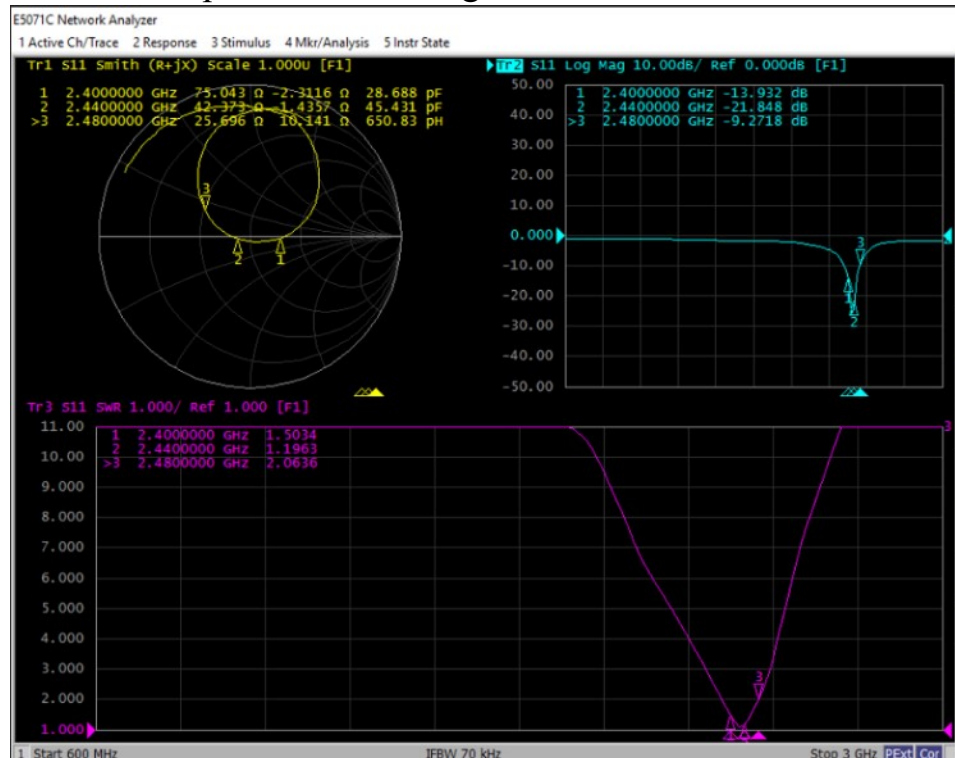
 $\Phi=0^\circ$ 

Phi=90°





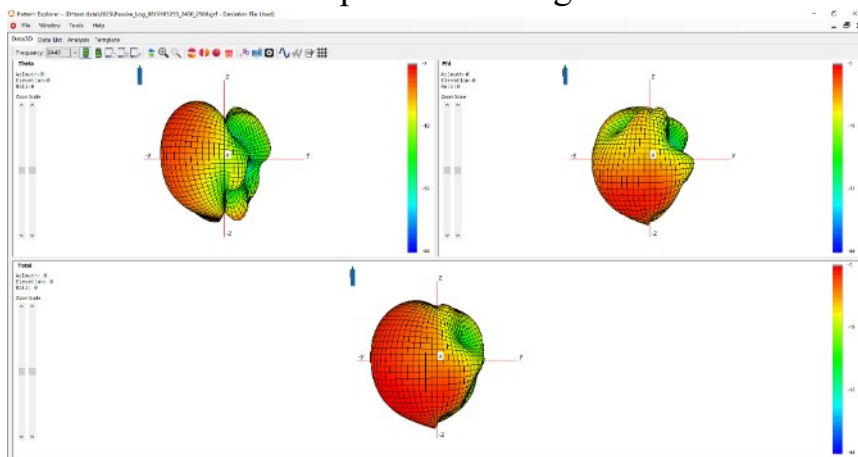
antenna S11 parameter: (Right Ear - Head)



Efficiency: (Right Ear - Head)

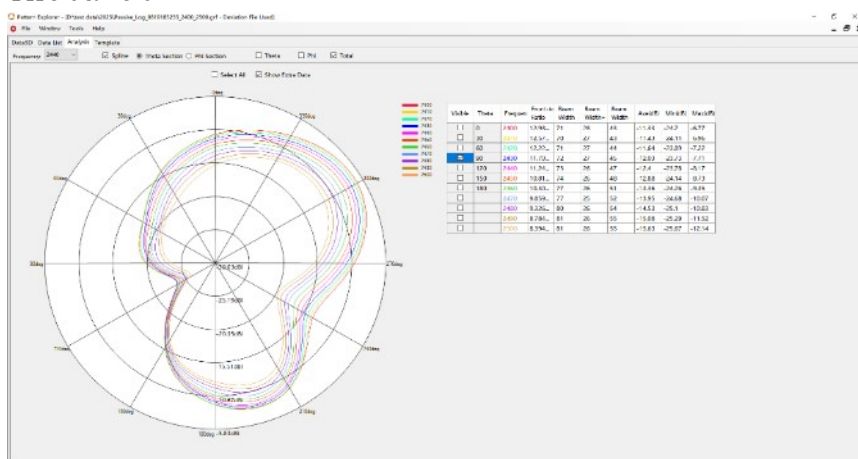
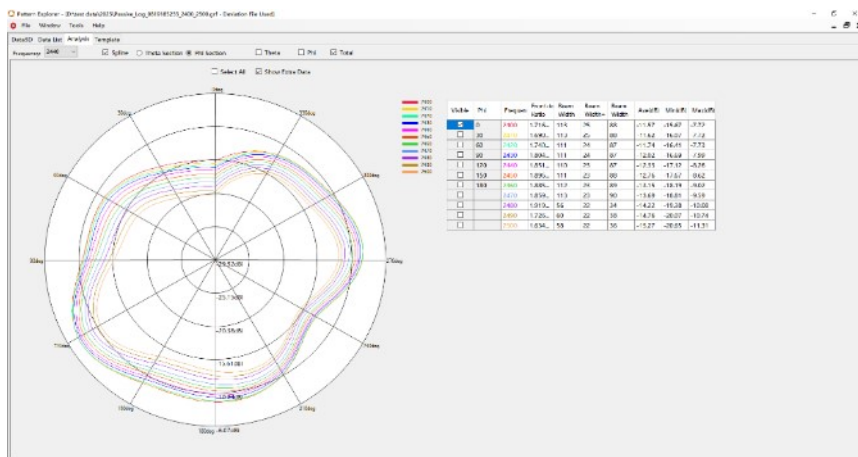
Frequency (MHz)	Efficiency (dB)	Gain (dBi)	Efficiency (%)
2400	-12.1	-7.1	6.1
2410	-12.0	-6.9	6.4
2420	-11.7	-6.6	6.8
2430	-11.4	-6.3	7.2
2440	-11.3	-6.2	7.4
2450	-11.3	-6.2	7.4
2460	-11.4	-6.3	7.3
2470	-11.6	-6.4	7.0
2480	-11.9	-6.8	6.5
AVG	-11.6	-6.5	6.9

3D Antenna radiation pattern: (Right Ear - Head)



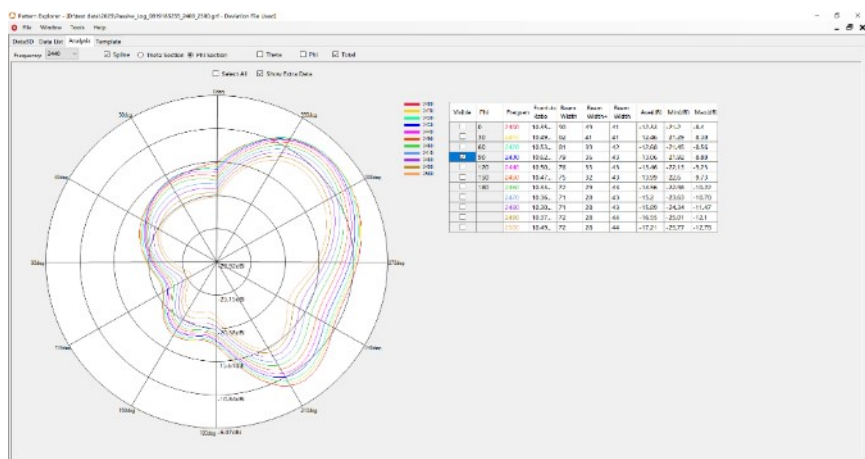
2D Antenna radiation pattern: (Right Ear - Head)

Theta=90°

 $\Phi=0^\circ$ 



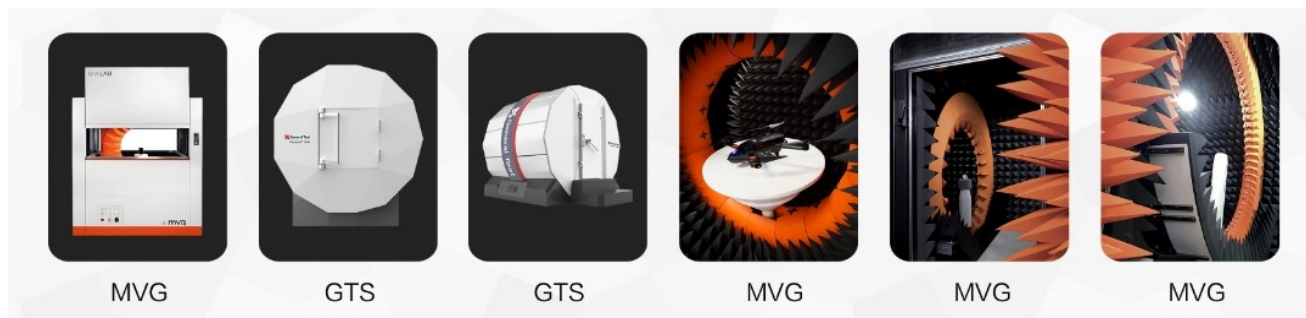
Phi=90°



II: 3D Active test report of antenna

		Free		Head	
CC-3	Channel	TRP	TIS	TRP	TIS
L	CH 0	5.0	-93.1	-2.8	-84.8
	CH 39	5.1	-93.6	-2.4	-85.2
	CH 78	5.1	-93.4	-2.0	-85.4
	AVG	5.1	-93.4	-2.4	-85.1

		Free		Head	
CC-3	Channel	TRP	TIS	TRP	TIS
R	CH 0	5.3	-93.3	-2.8	-84.5
	CH 39	5.4	-93.5	-2.3	-85.3
	CH 78	5.3	-93.0	-2.0	-85.5
	AVG	5.3	-93.3	-2.3	-85.1

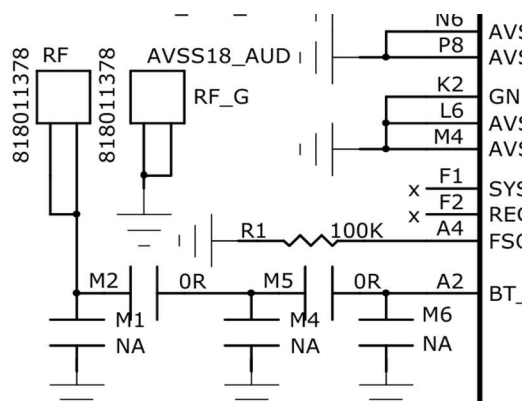


OTA Standard Chamber



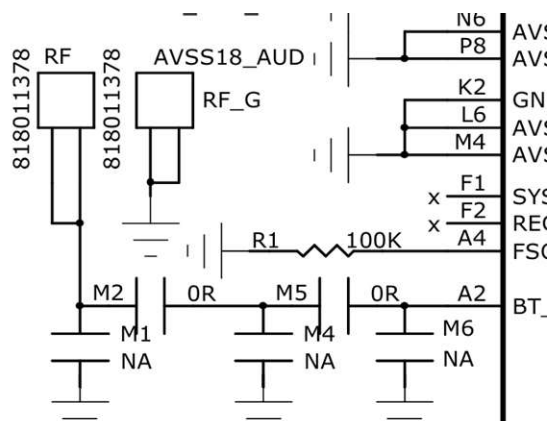
III: Matching circuit

L



Element	value
M1	N/C
M2	0Ω
M4	N/C

R



Element	value
M1	N/C
M2	0Ω
M4	N/C



VI: Antenna structure diagram file

