



Antenna Part Specification

Project name:	Kepler
Antenna Designation:	Left ear BT antenna
Version:	V2.0
Add:	505-506 , ABlock, Donglian Building, Chuangye 2 road, Baoan District, Shenzhen, Guangdong, P. R china
Date:	2024. 09. 04



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Change record			
Compile / change date	Reason for change	Changed content	Version
2024.05.22	Initial release	Initial release	V1.0
2024.09.04	Updated version	Updated version	V2.0

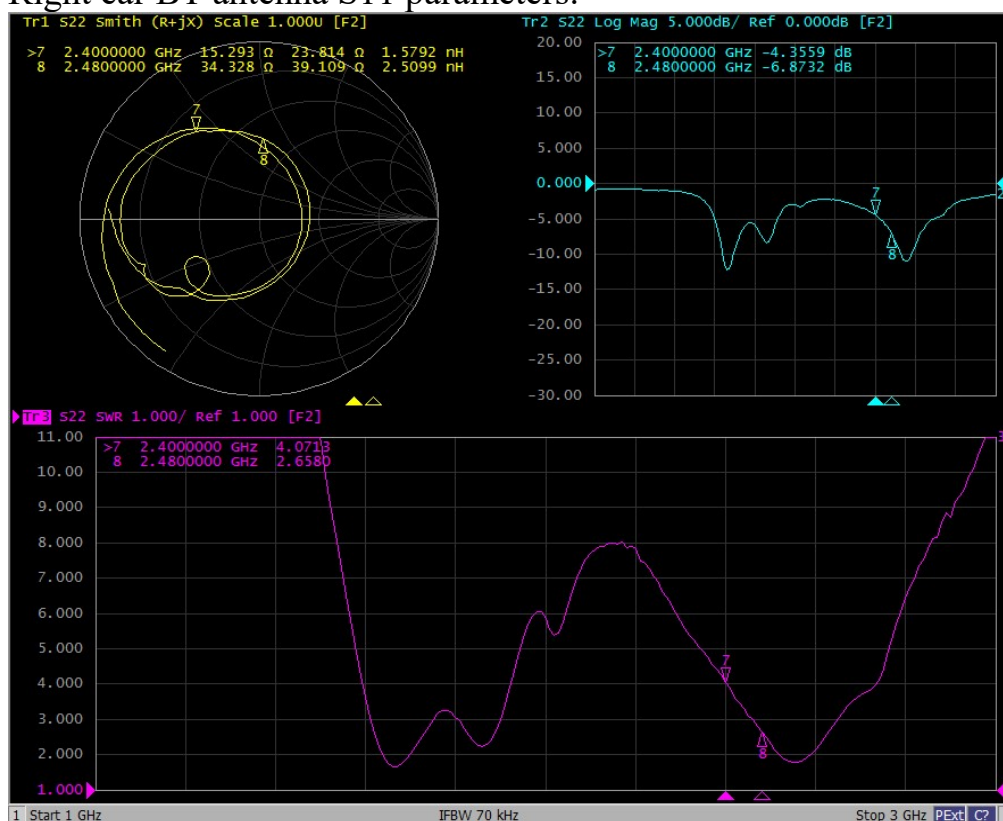


I: The report of passive data



Angilent E5071C

Right ear BT antenna S11 parameters:

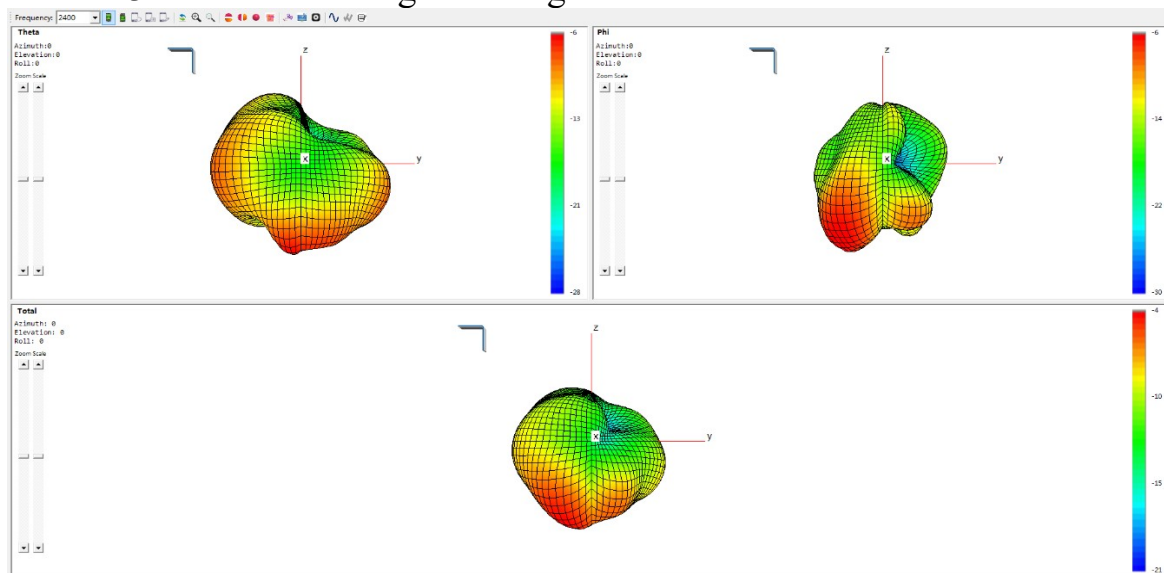




Right ear BT antenna efficiency and gain:

R_FS		
Frequency point MHz	efficiency (dB)	efficiency %
2400	-8.8	13.2
2410	-8.9	12.8
2420	-9.1	12.3
2430	-9.1	12.4
2440	-9.2	12.2
2450	-8.9	12.9
2460	-8.6	13.9
2470	-8.3	14.7
2480	-7.9	16.3
average value	-8.7	13.4

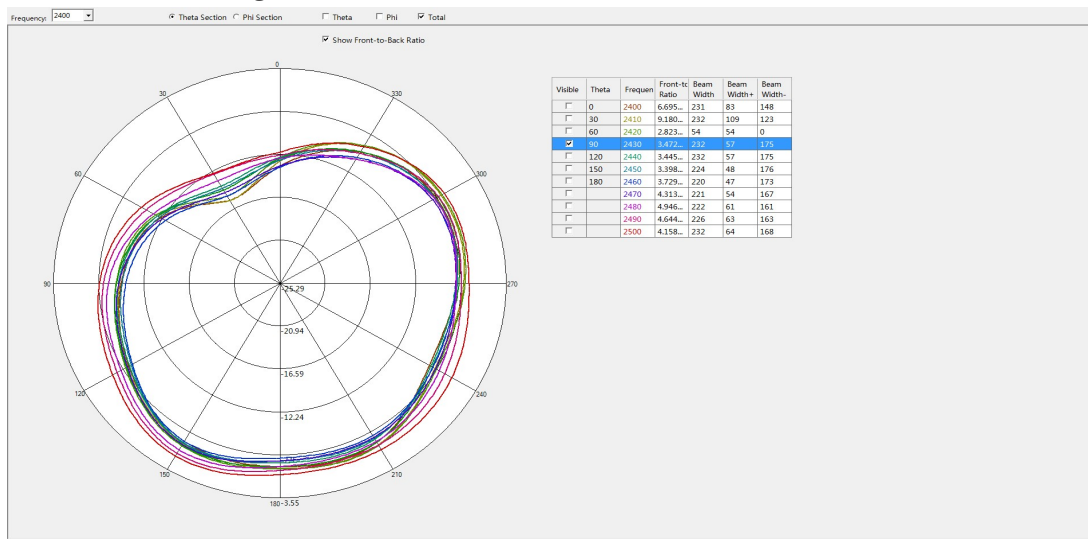
Passive 3D directional diagram of right ear antenna:



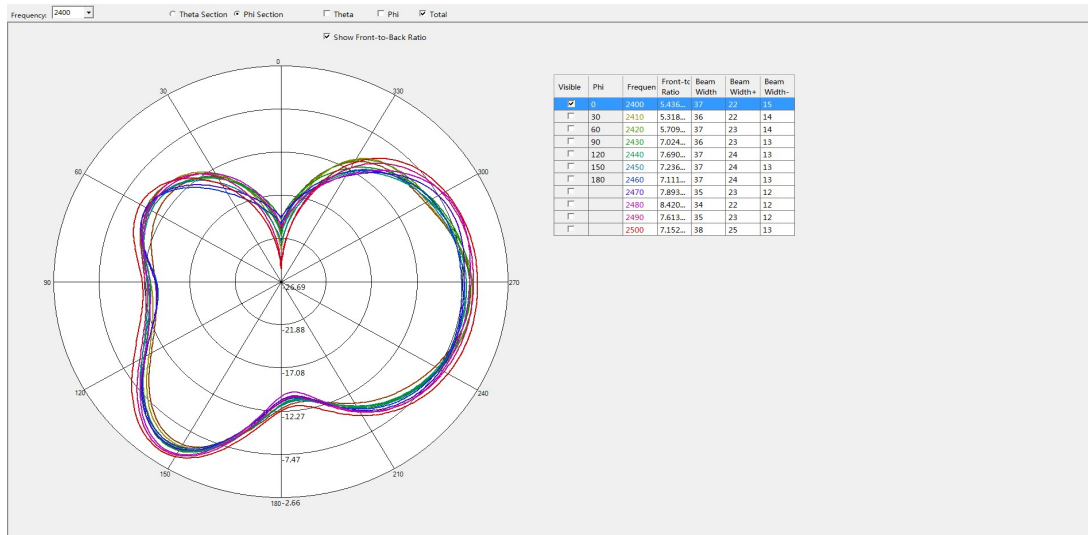


2D directional diagram of right ear antenna:

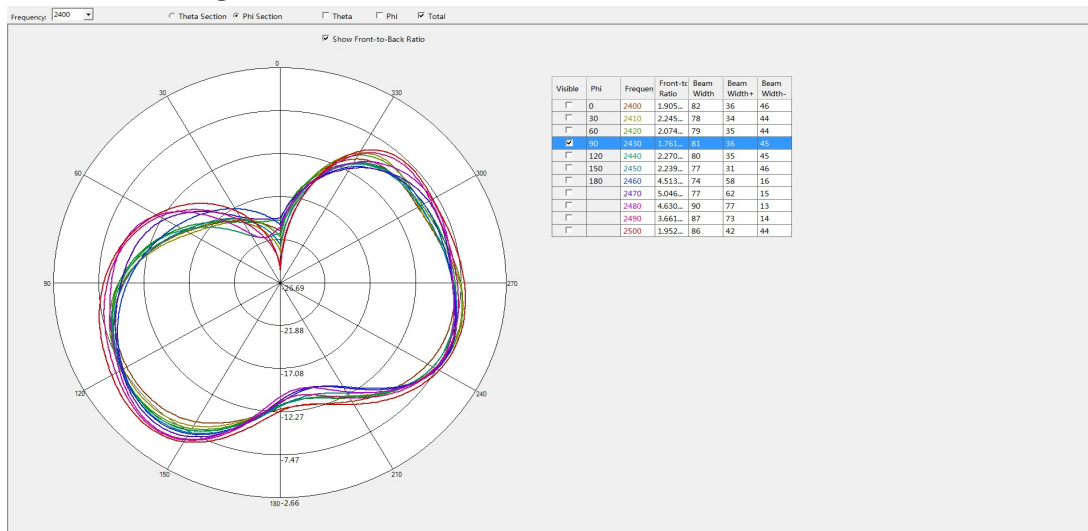
Theta=90.00deg



Phi=0.00deg



Phi=90.00deg





II: 3D Active test report of antenna

		conduction		free				Head model	
	Channel	power	sensitivity	TRP	EIRP	TIS	Active gain	TRP	TIS
R	CH 0	13.5	-95.5	7.7	10.5	-91.7	-2.99dbi	0.9	-86.4
	CH 39	13.3	-95.5	8.0	11.3	-91.1	-2.01dbi	2.3	-86.3
	CH 78	13.1	-95.5	7.5	10.7	-90.6	-2.36dbi	3.8	-86.9
	AVG	13.3	-95.5	7.7	10.8	-91.1	-2.5dbi	2.3	-86.5

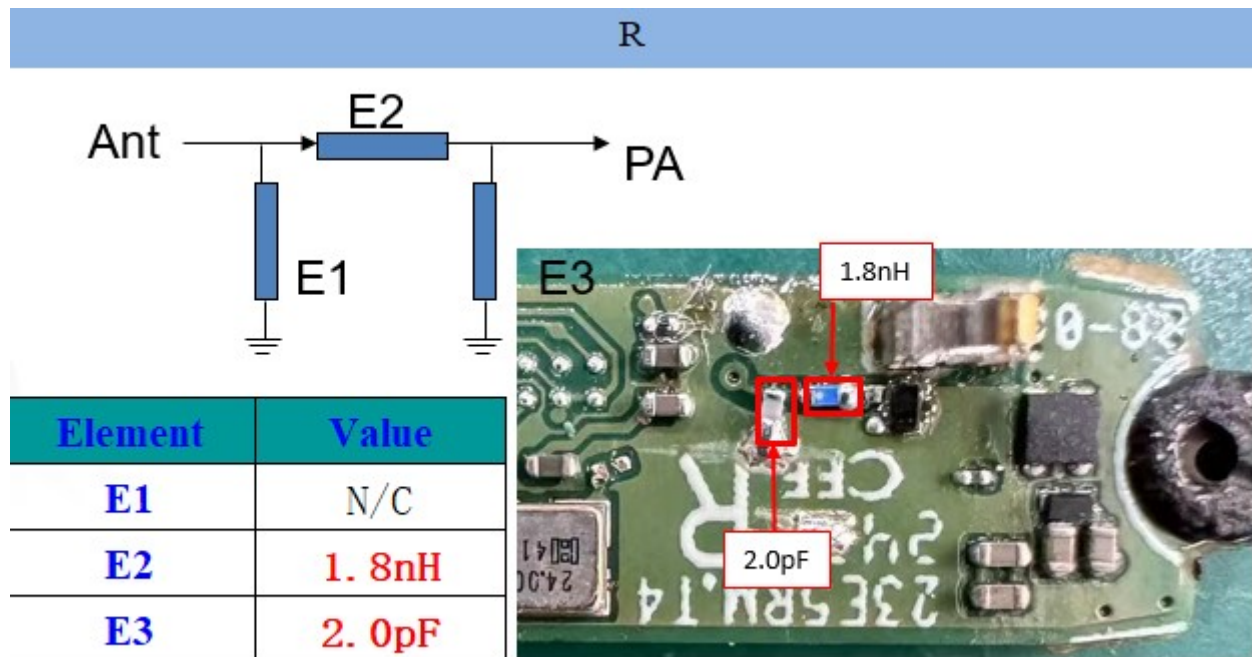
Maximum gain: -2.01



OTA Standard Chamber



III: Matching circuit





IV: Structure file

