



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

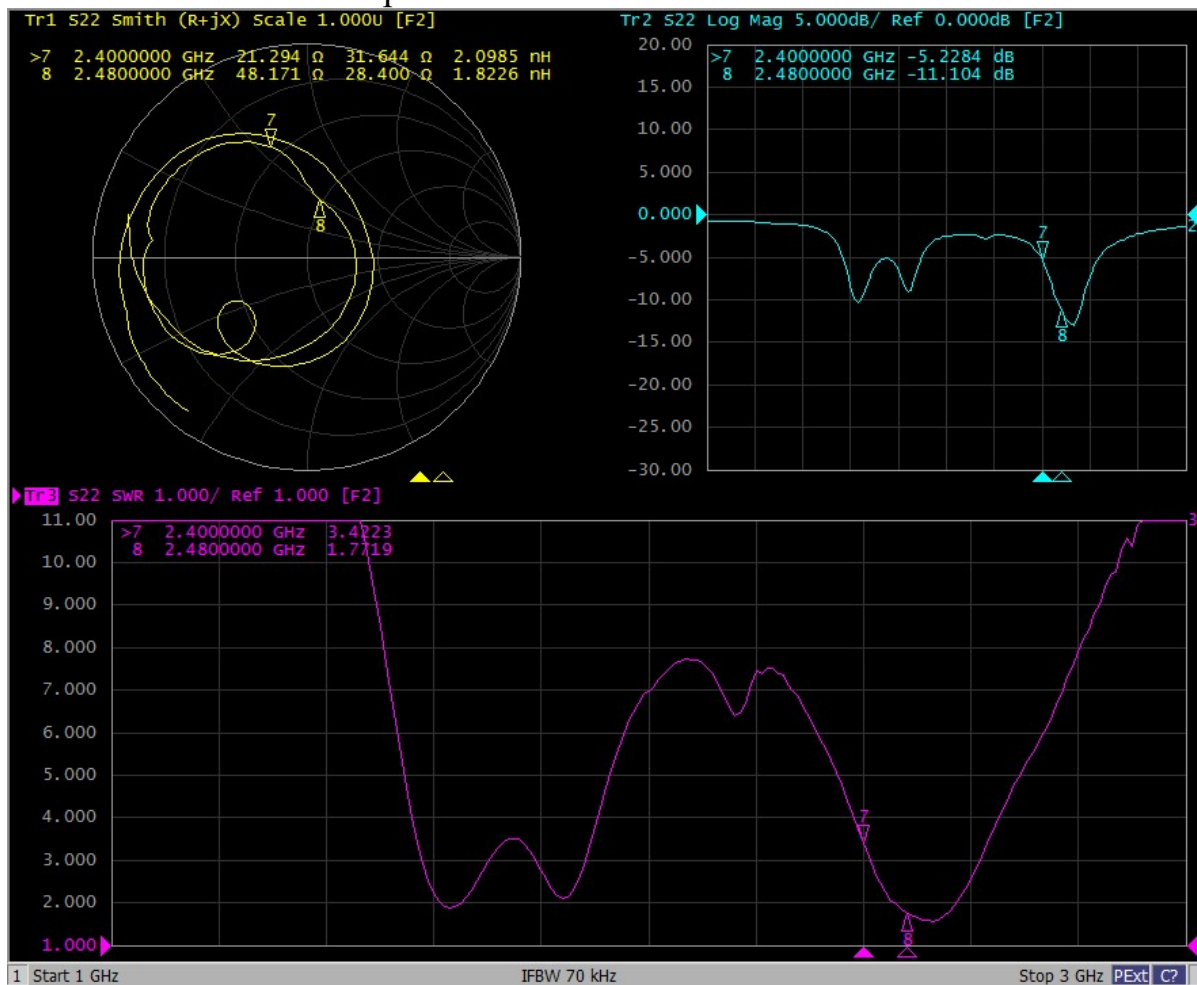


I: The report of passive data



Angilent E5071C

Left ear BT antenna S11 parameters:

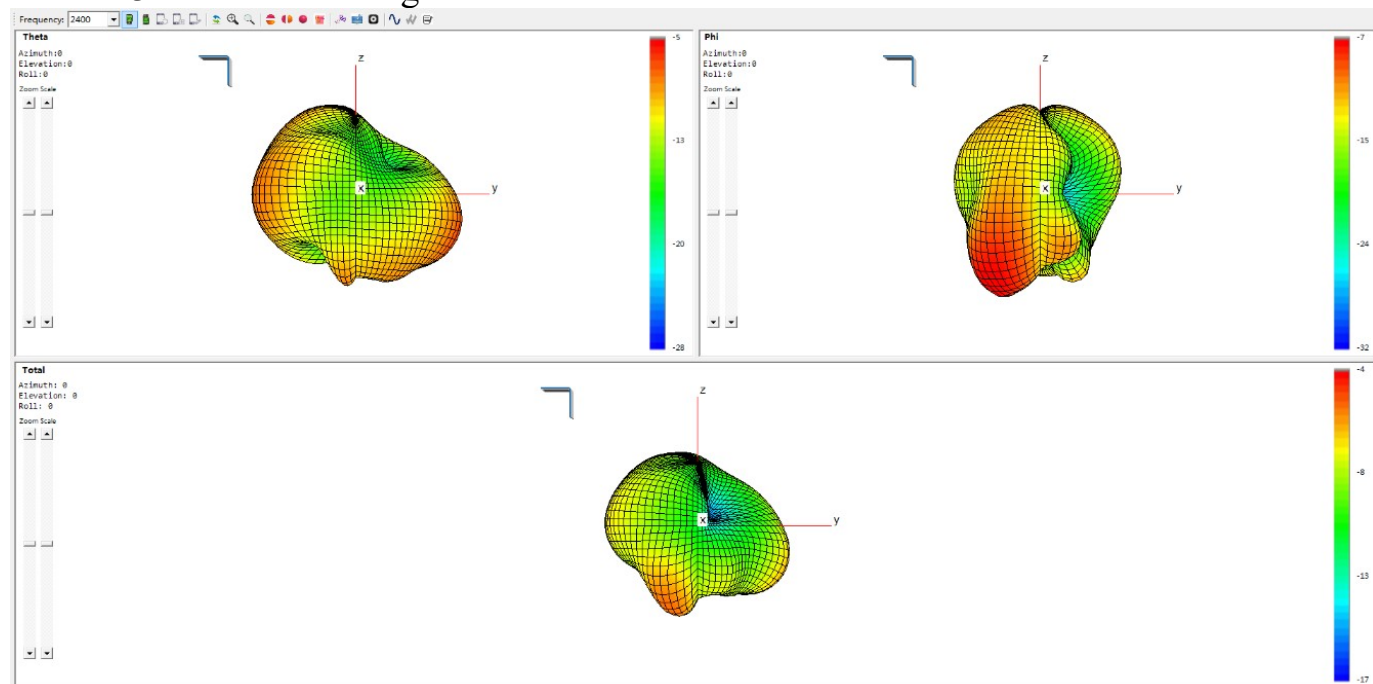




Efficiency and gain of left ear BT antenna:

L_FS		
Frequency point MHz	efficiency (dB)	efficiency %
2400	-8.2	15.3
2410	-7.7	17.1
2420	-7.3	18.5
2430	-7.3	18.6
2440	-7.4	18.2
2450	-7.3	18.6
2460	-7.4	18.1
2470	-7.2	19.0
2480	-7.1	19.6
average value	-7.4	18.1

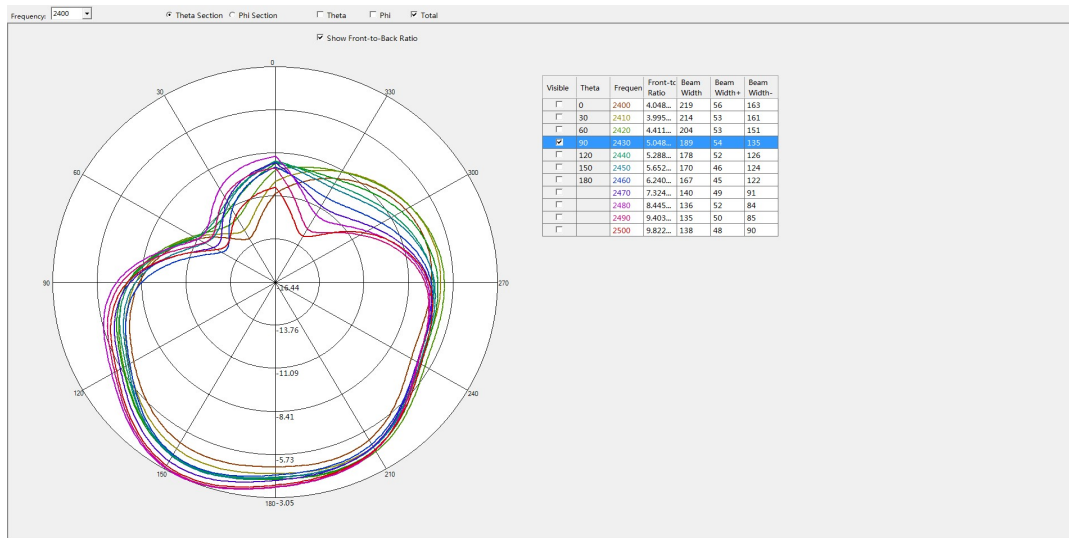
Passive 3D directional diagram of left ear antenna:



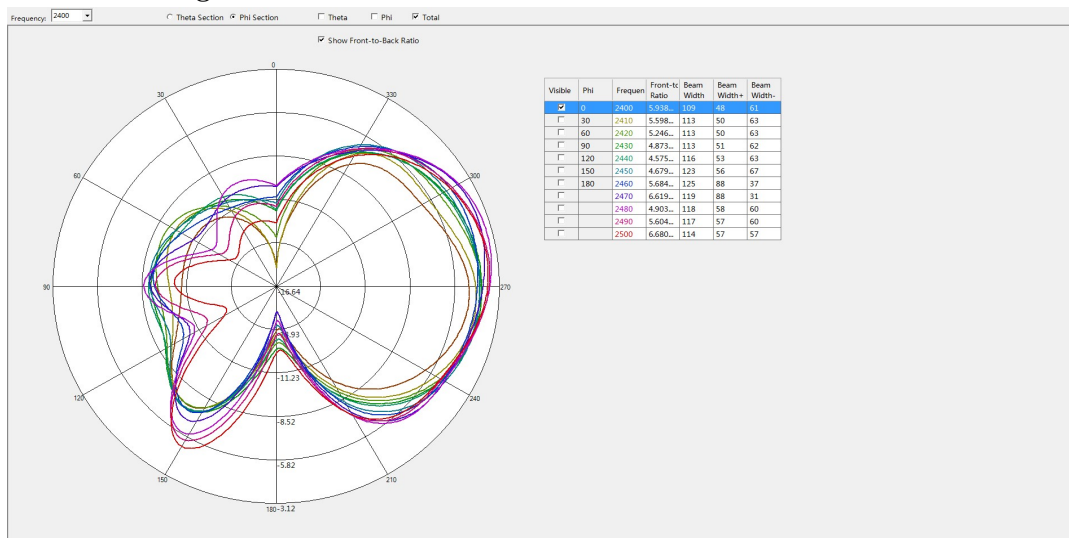


2D directional diagram of left ear antenna:

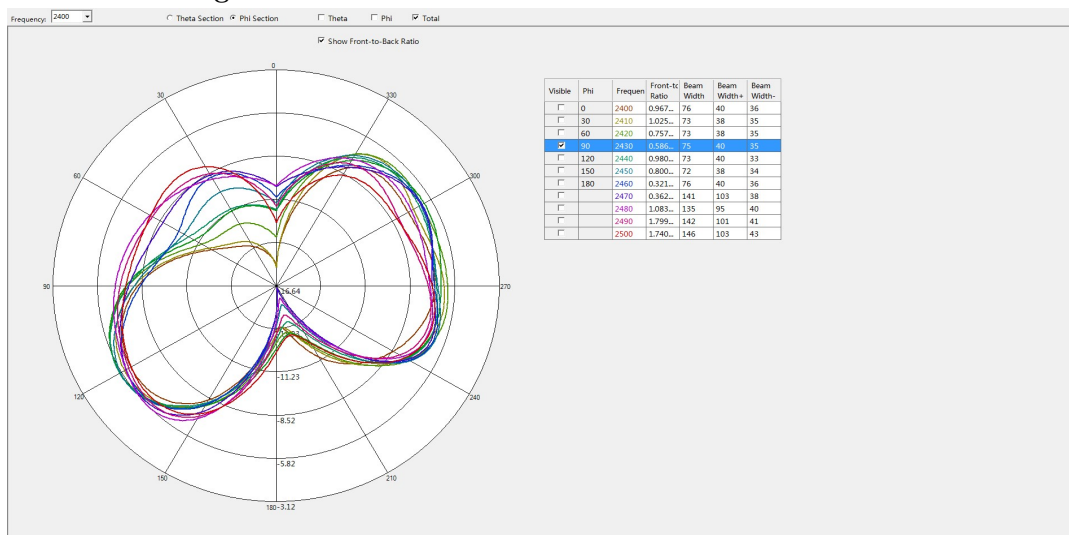
Theta=90.00deg



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
L	CH 0	13.6	-95.5	8.8	11.38	-91.9	-2.22dbi	2.0	-86.0
	CH 39	13.5	-95.5	8.5	11.34	-91.2	-2.16dbi	3.4	-86.1
	CH 78	13.3	-95.5	7.1	10.58	-90.1	-2.72dbi	3.7	-86.5
	AVG	13.5	-95.5	8.1	11.1	-91.0	-2.4dbi	3.0	-86.2

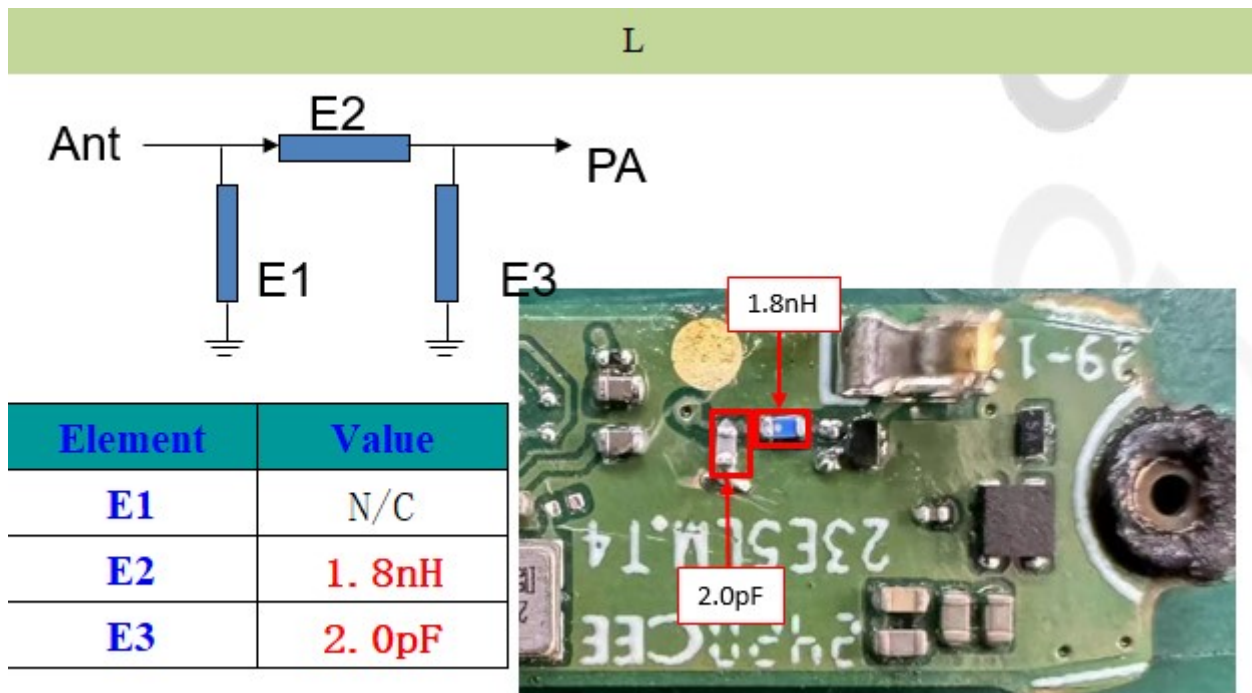
Maximum gain: -2.16



OTA Standard Chamber



III: Matching circuit





IV: Structure file

