



Antenna Part Specification

Customer name:	EDIFIER
Project name:	NeoBuds Pro 3
Antenna type:	FPC
Material category:	L&R-Antenna Module
Version:	V1.0
Date:	2025.01.10
Manufacturer Address:	505-506 ,ABlock,Donglian Building,Chuangye 2 road,Baoan District,Shenzhen,Guangdong,P.R china



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Change record			
Compile / change date	Reason for change	Changed content	Version
2025.01.10	first edition	first edition	V1.0

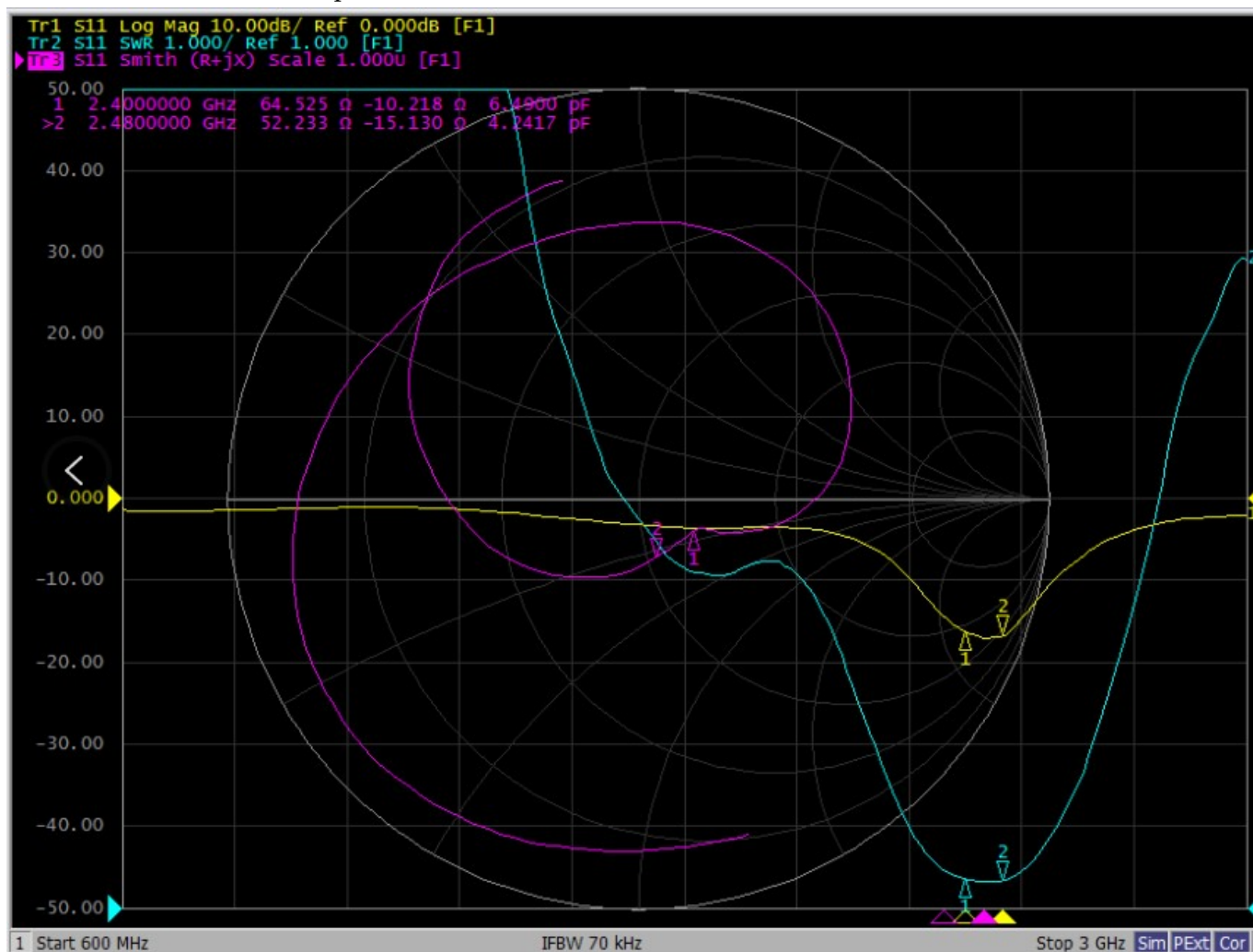


I: The report of passive data



Angilent E5071C

Left ear antenna S parameters :



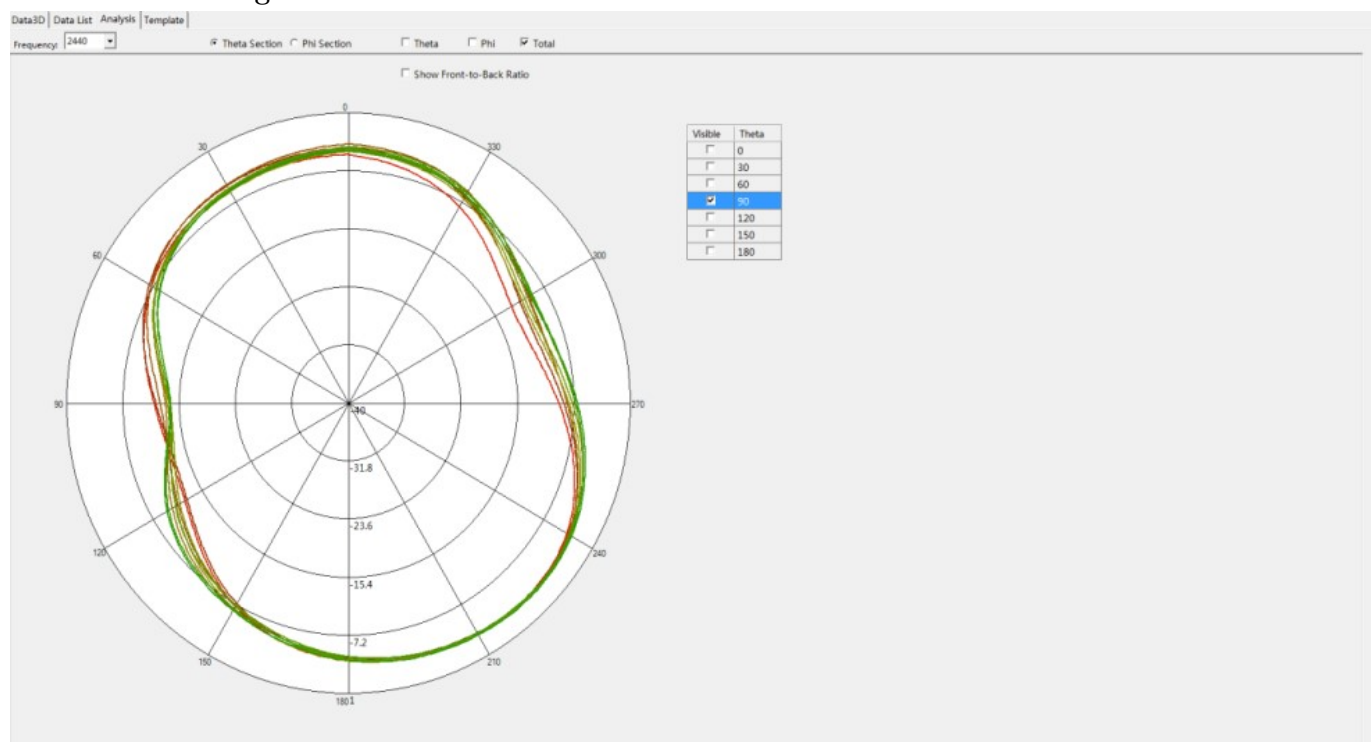


Left ear antenna efficiency&gain

L			
Frequency MHz	Efficiency %	Efficiency (dB)	Gain (dBi)
2400	34.2%	-4.65	-2.23
2410	36.3%	-4.40	-2.06
2420	36.5%	-4.38	-2.07
2430	34.9%	-4.57	-2.33
2440	34.1%	-4.67	-2.29
2450	34.4%	-4.64	-2.26
2460	34.5%	-4.62	-2.27
2470	34.7%	-4.60	-2.34
2480	35.7%	-4.48	-2.06
Average value	35.0%	-4.55	-2.21

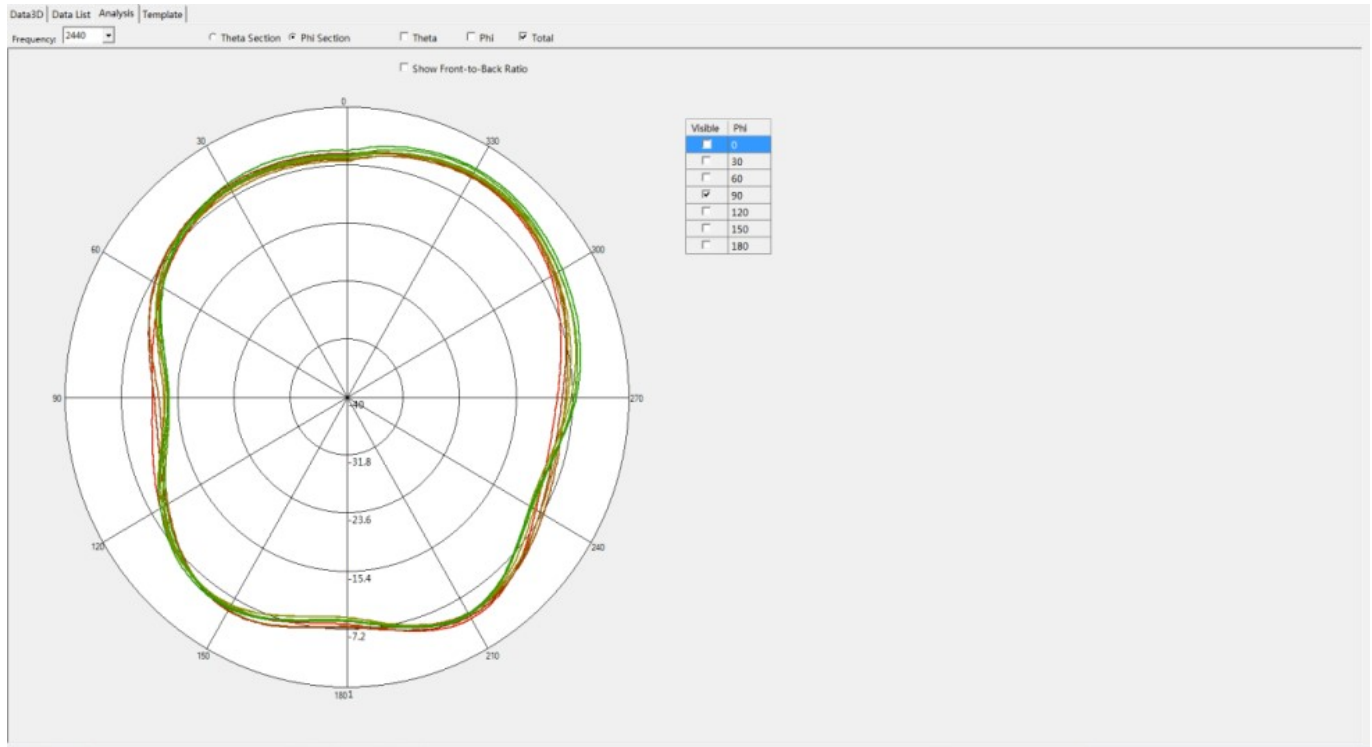
Passive directional pattern of left ear antenna:

Theta=90.00deg

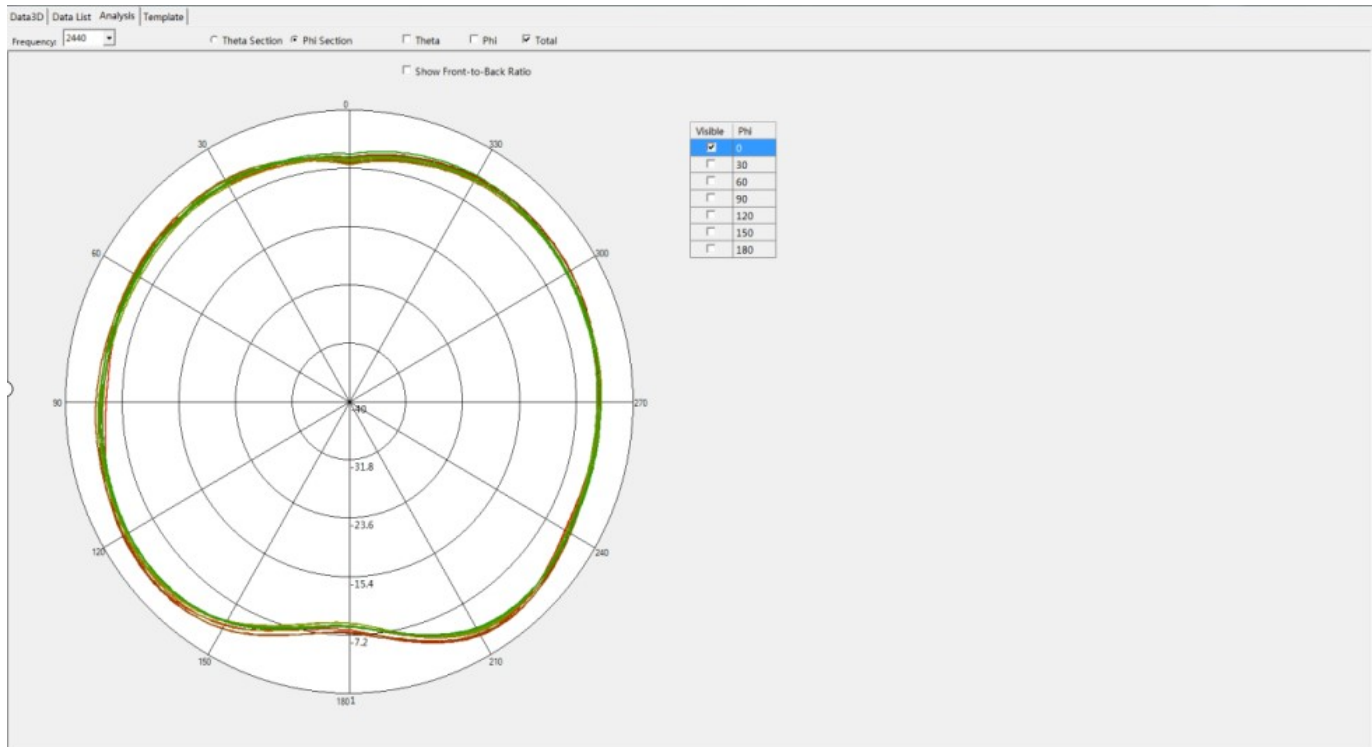




Phi=90.00deg

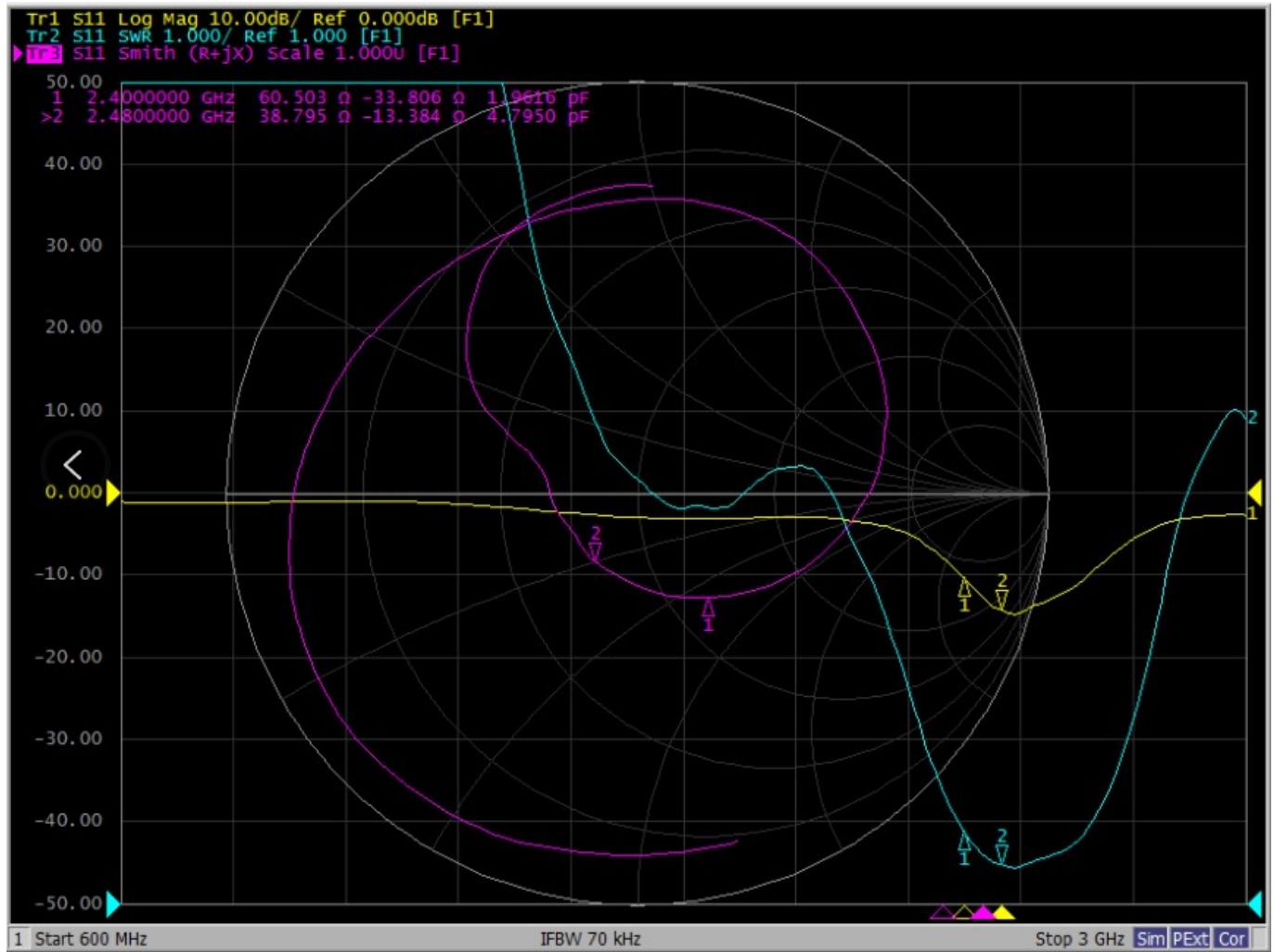


Phi=0.00deg





Right ear antenna S parameter:



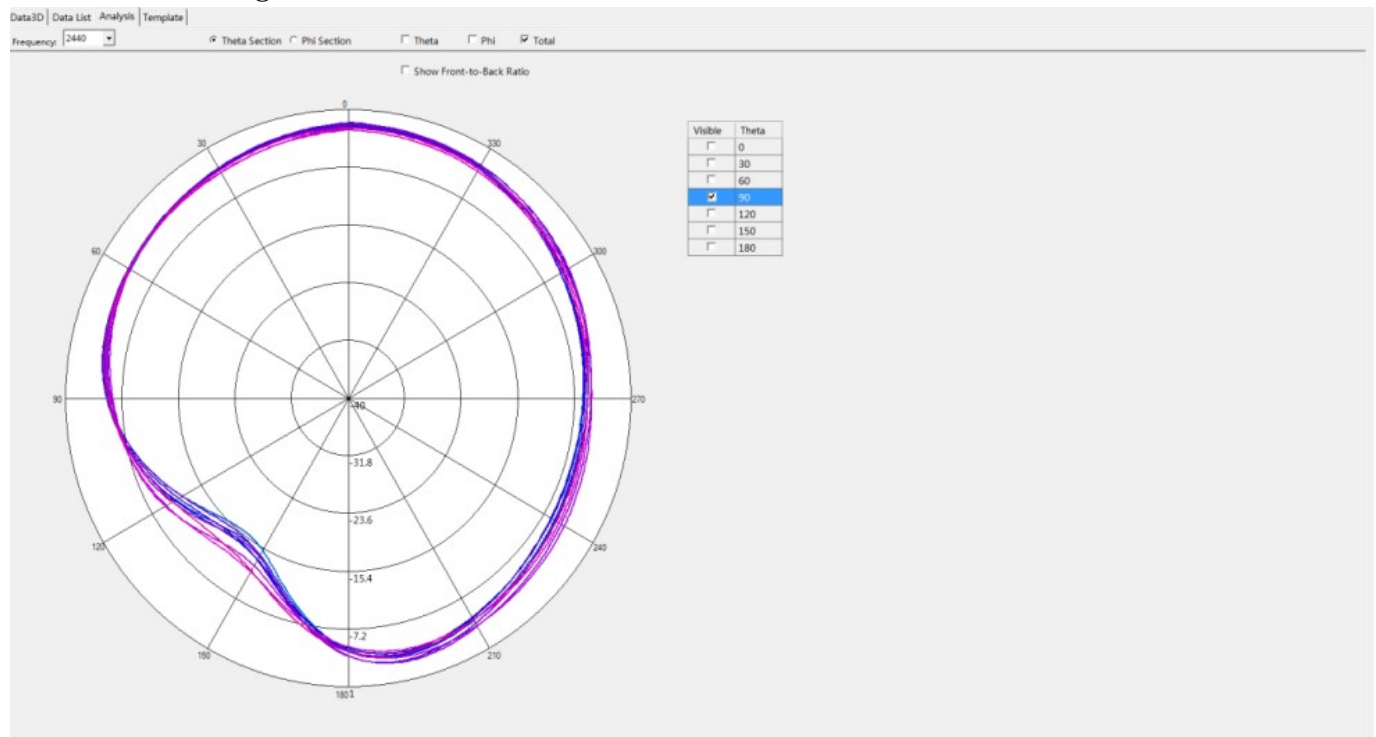


Right ear antenna efficiency&gain

R			
Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	34.0%	-4.69	-0.72
2410	35.0%	-4.56	-0.73
2420	33.3%	-4.77	-1.09
2430	33.2%	-4.79	-1.08
2440	34.6%	-4.61	-0.79
2450	35.5%	-4.49	-0.92
2460	35.9%	-4.45	-0.81
2470	33.0%	-4.81	-1.19
2480	32.6%	-4.87	-1.20
Average value	34.1%	-4.67	-0.95

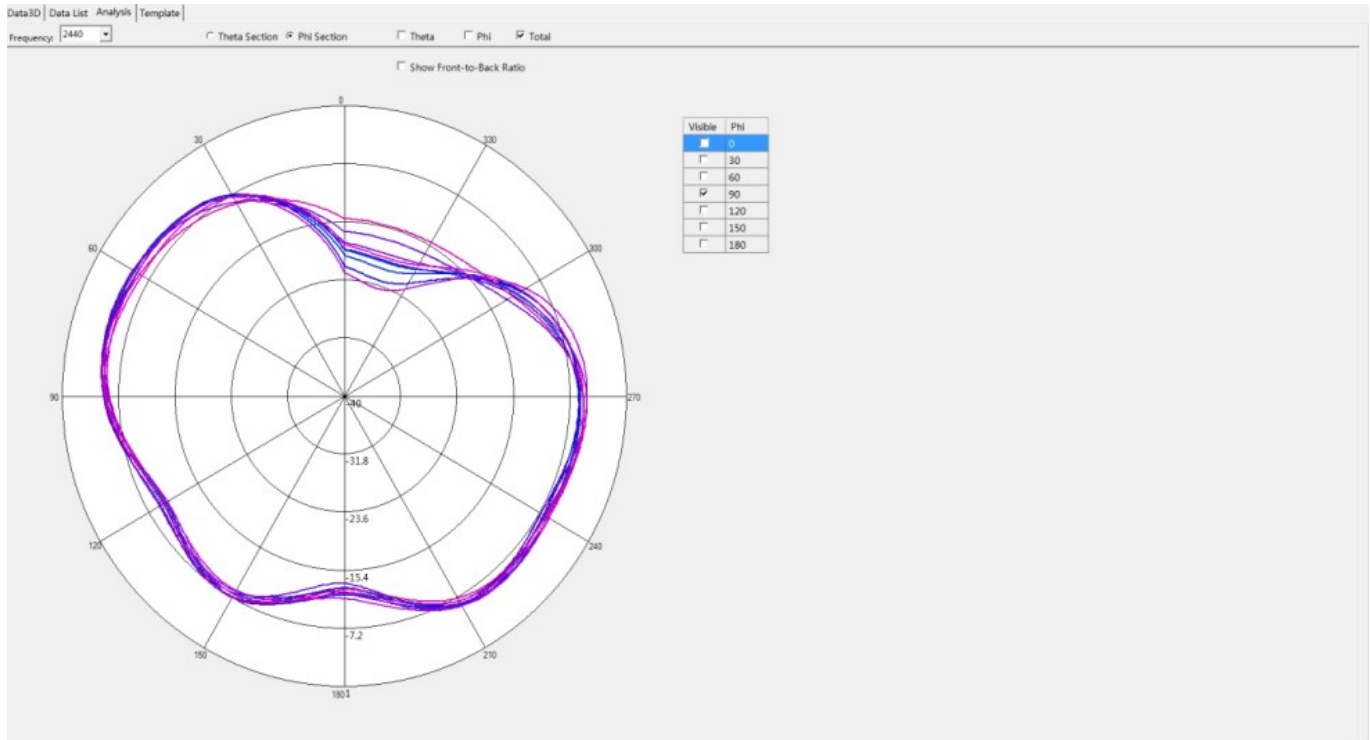
Passive directional pattern of right ear antenna:

Theta=90.00deg

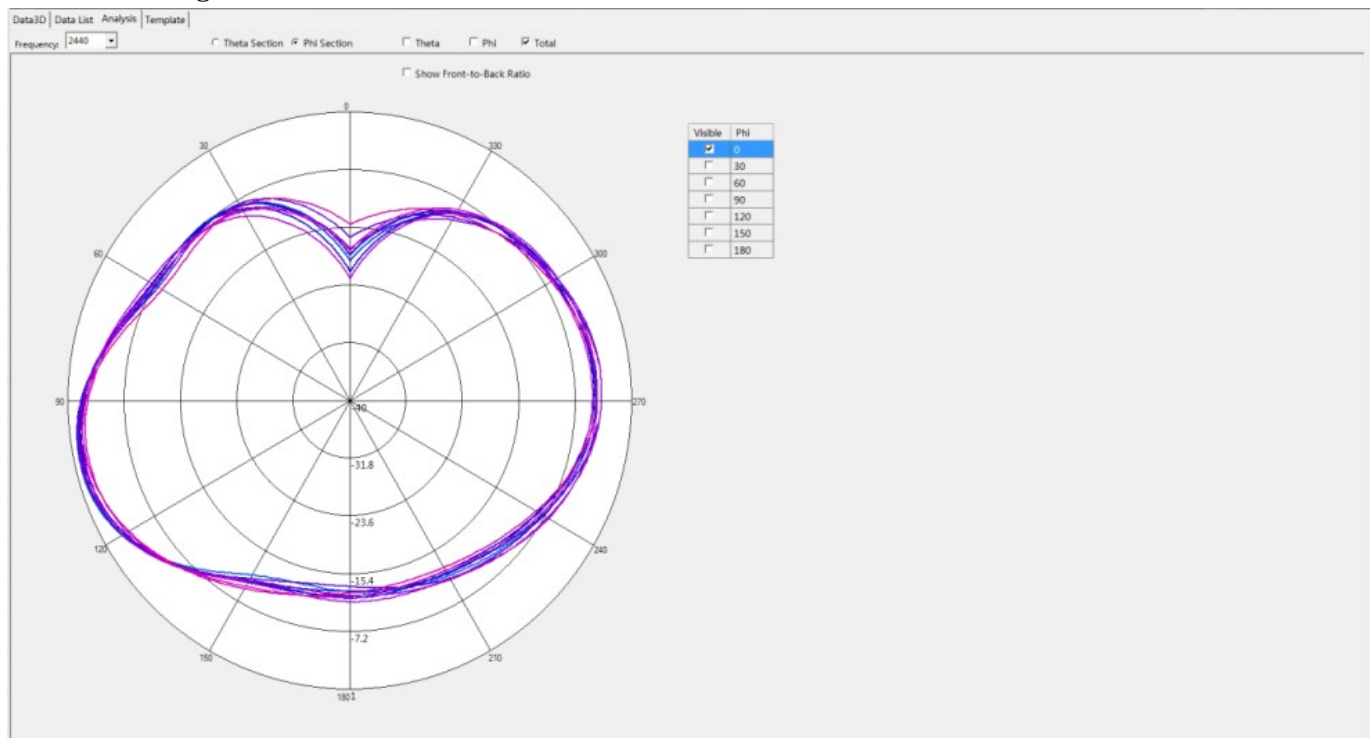




Phi=90.00deg



Phi=0.00deg





II: 3D Active test report of antenna

free space	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	8.4	-91.3
	CH 39	10.6	-92.6
	CH 78	7.9	-90.3

headform	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	0.7	-83.2
	CH 39	3.5	-85.8
	CH 78	0.9	-83.5

free space	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	8.5	-91.2
	CH 39	10.0	-92.4
	CH 78	8.8	-90.7

headform	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	0.4	-83.1
	CH 39	3.4	-85.6
	CH 78	1.4	-84.4



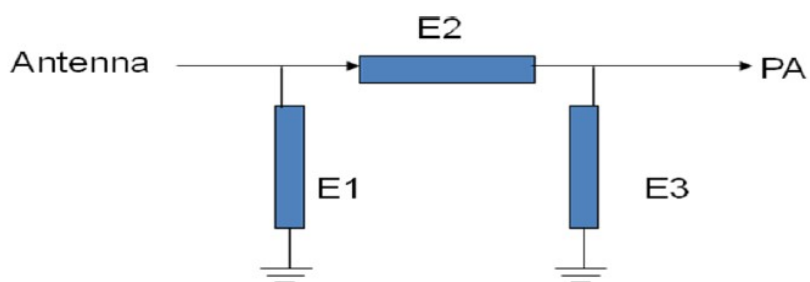
OTA Standard Chamber



III: Matching circuit

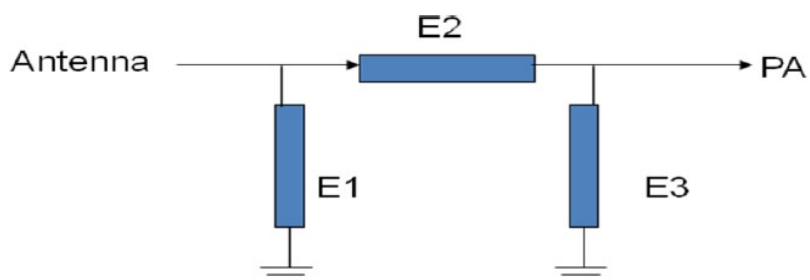
Left ear matching circuit:

Element	Value
E1	N/A
E2	$0\ \Omega$
E3	2.0pF



Right ear matching circuit:

Element	Value
E1	N/A
E2	$0\ \Omega$
E3	2.0pF





IV: Structure file

