

# Antenna Specification

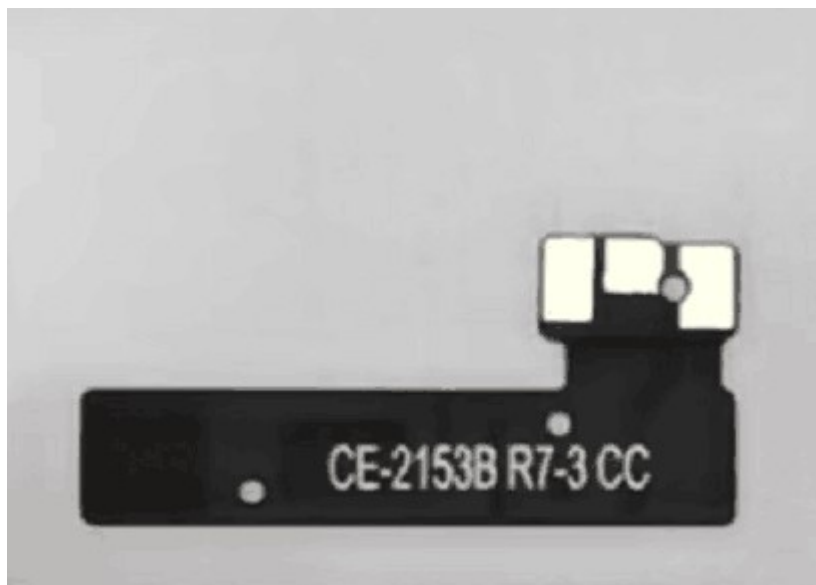
Client:	Cosonic
Project:	CE-2153B
Function:	BT Antenna
Type:	PIFA
Version:	V2.0
Date:	2022.09.27

→: Antenna Detail Photo

Left Earbuds Antenna:



Right Earbuds Antenna:

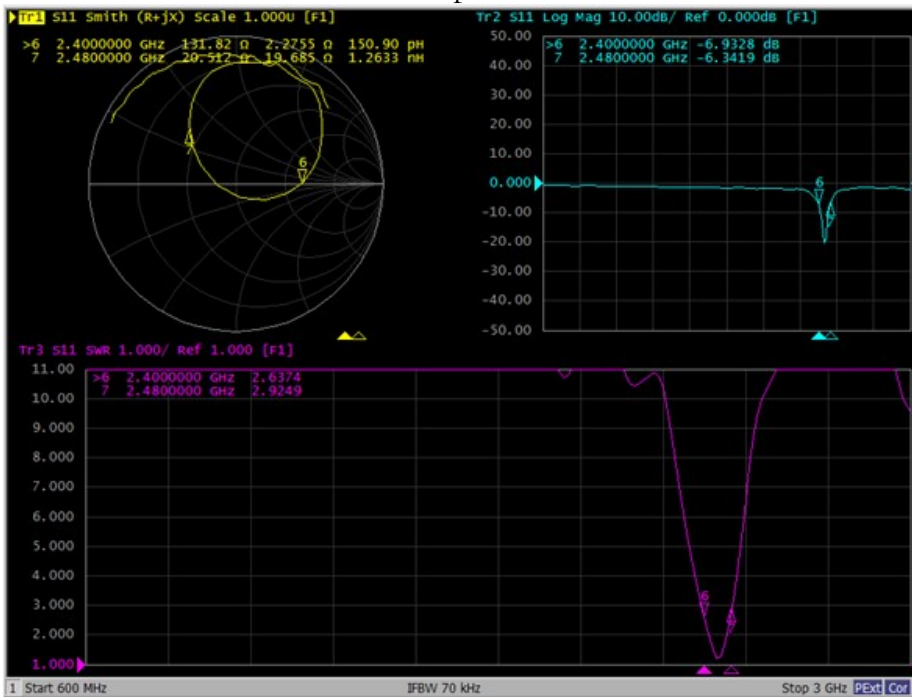


## 二: Passive test report



Agilent E5071C

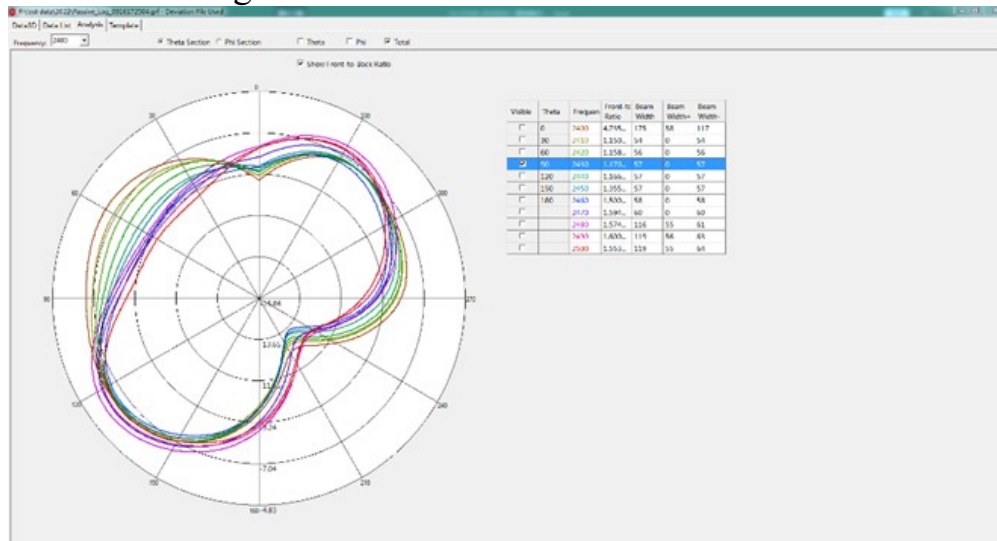
### Left Earbuds BT Antenna S11 parameter



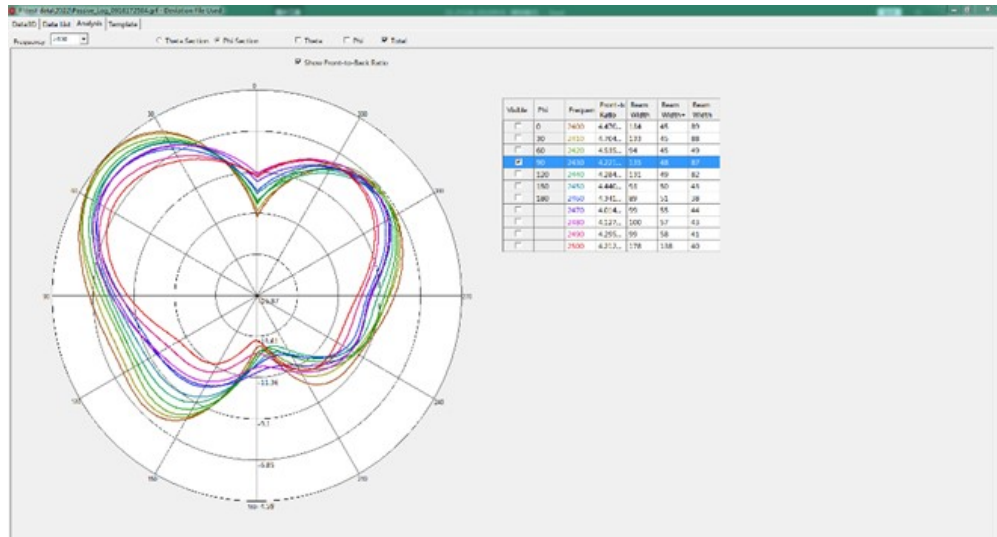
### Left Earbuds BT Antenna efficiency and gain:

L			
Frequency Point MHz	Gain (dBi)	Efficiency (dB )	Efficiency (%)
2400	-4.9	-7.9	16.3
2410	-5.0	-7.9	16.3
2420	-5.0	-7.8	16.5
2430	-5.4	-7.9	16.1
2440	-5.6	-8.1	15.6
2450	-5.3	-8.0	15.8
2460	-5.2	-8.2	15.1
2470	-4.9	-7.9	16.1
2480	-4.8	-7.8	16.5
平均值	-5.13	-7.95	16.03

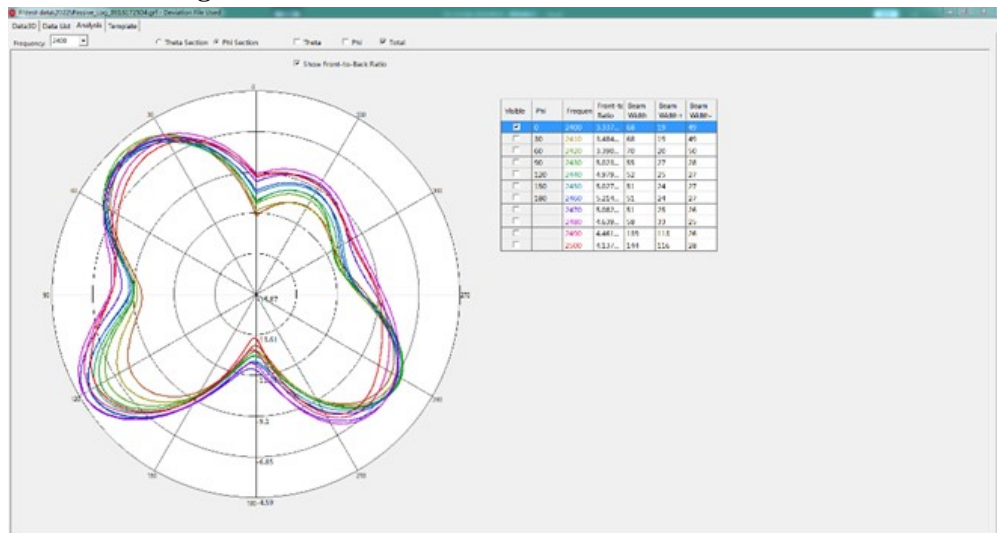
Passive pattern of left ear antenna:  
 Theta=90.00deg



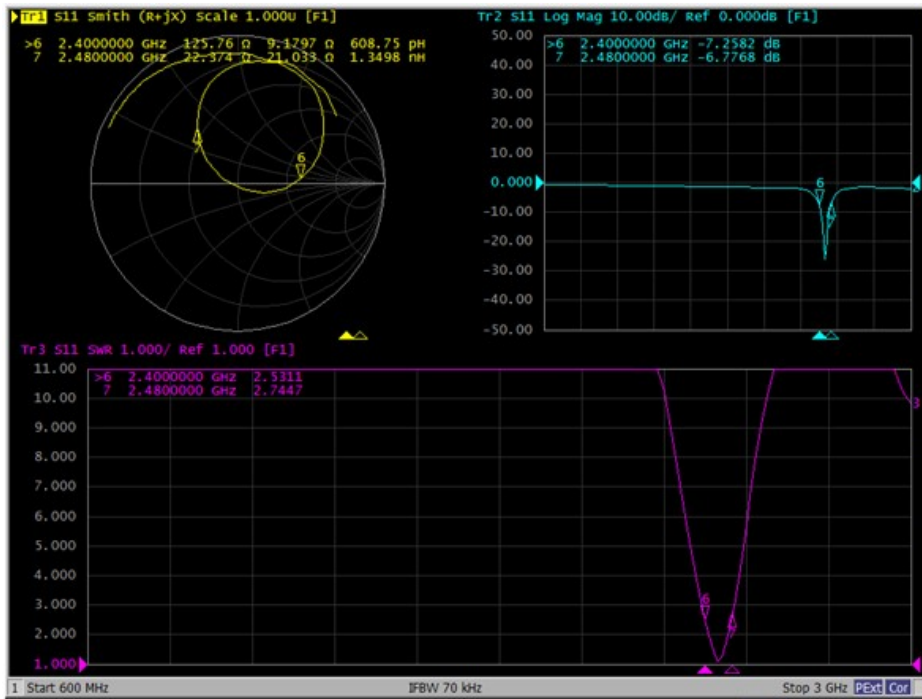
Phi=90.00deg



Phi=0.00deg



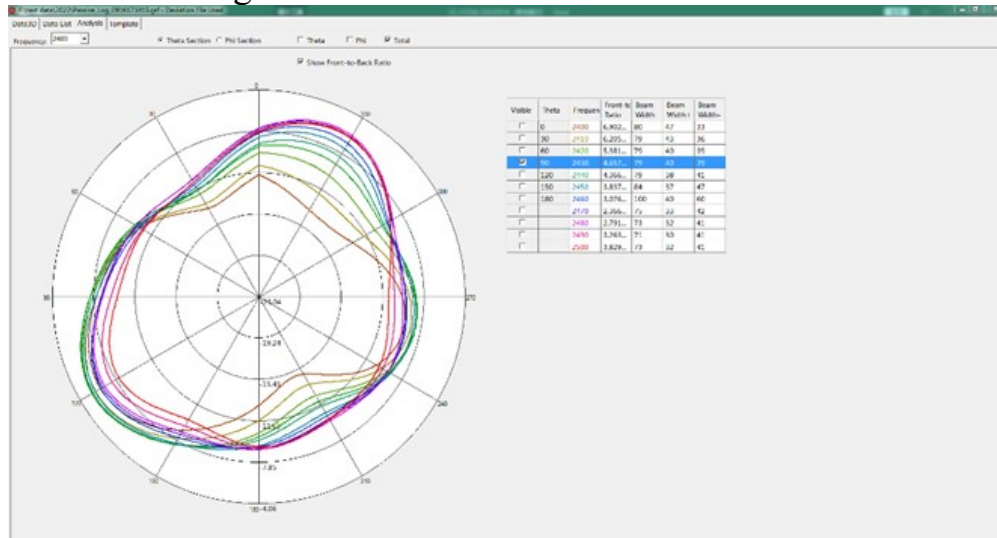
## Right Earbuds BT Antenna S11 parameter



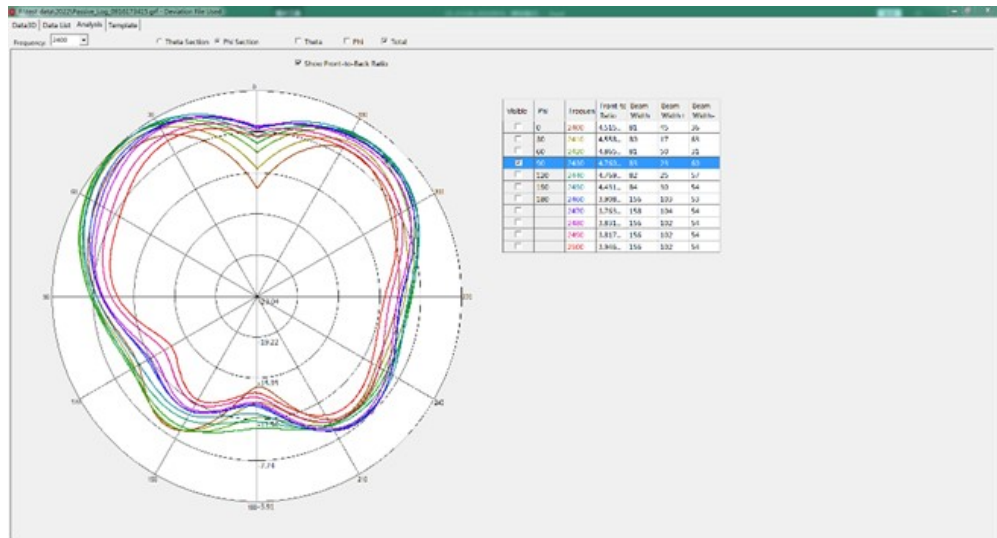
## Right Earbuds BT Antenna efficiency and gain:

R			
Frequency Point MHz	Gain (dBi)	Efficiency (dB )	Efficiency (%)
2400	-4.5	-7.9	16.4
2410	-4.5	-7.7	17.1
2420	-4.3	-7.6	17.3
2430	-4.3	-7.5	17.8
2440	-4.7	-7.9	16.4
2450	-4.8	-7.7	16.8
2460	-5.0	-7.9	16.2
2470	-5.7	-8.4	14.3
2480	-6.2	-8.5	14.0
平均值	-4.88	-7.90	16.25

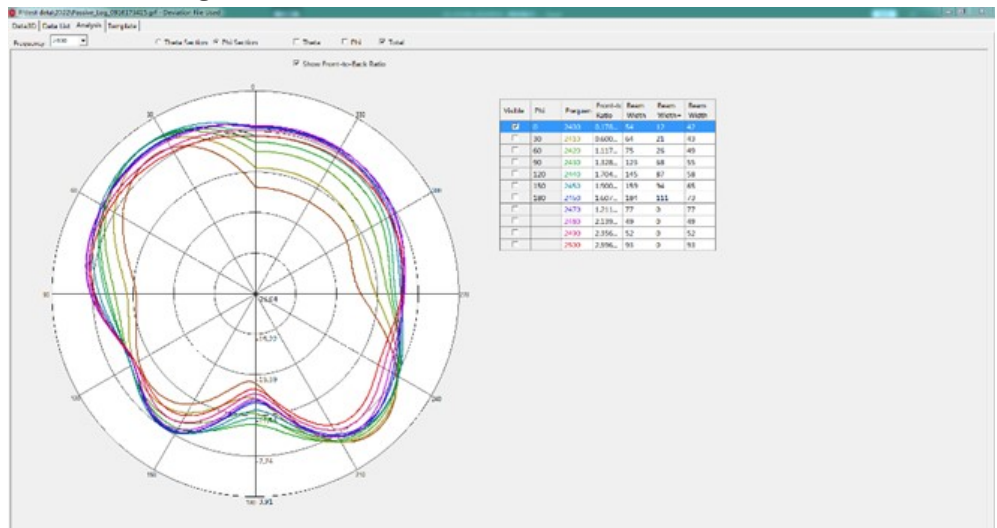
Passive pattern of right ear antenna:  
 Theta=90.00deg



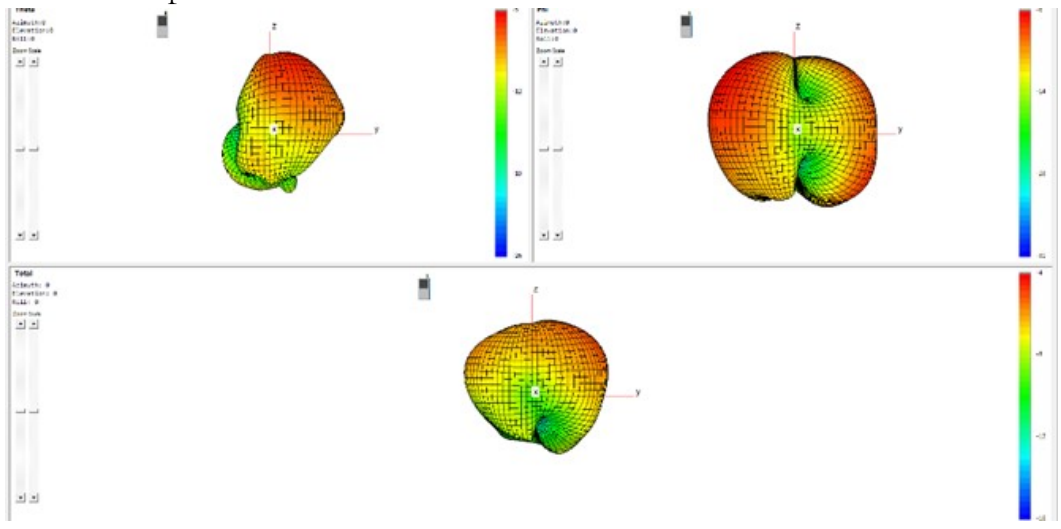
Phi=90.00deg



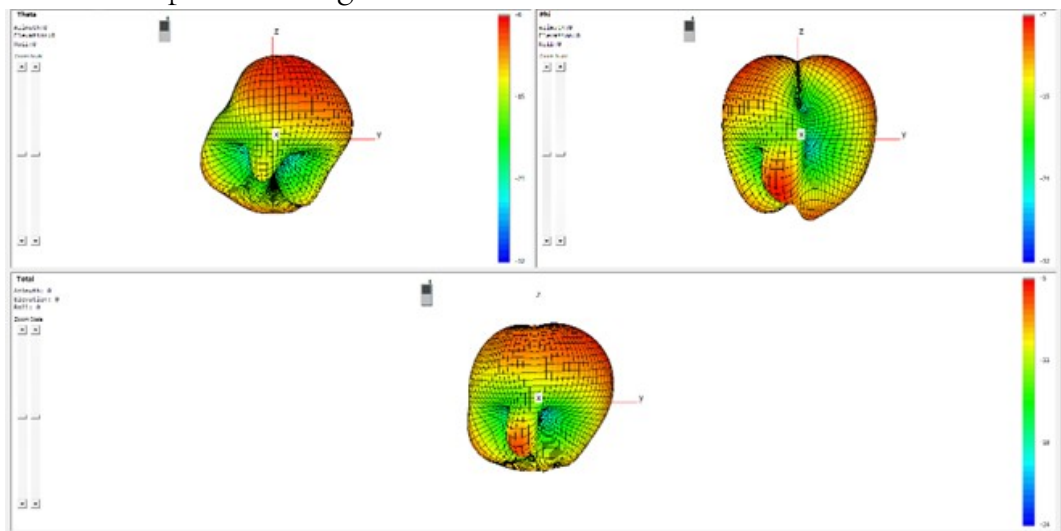
Phi=0.00deg



### Passive 3D pattern of left ear antenna



### Passive 3D pattern of right ear antenna



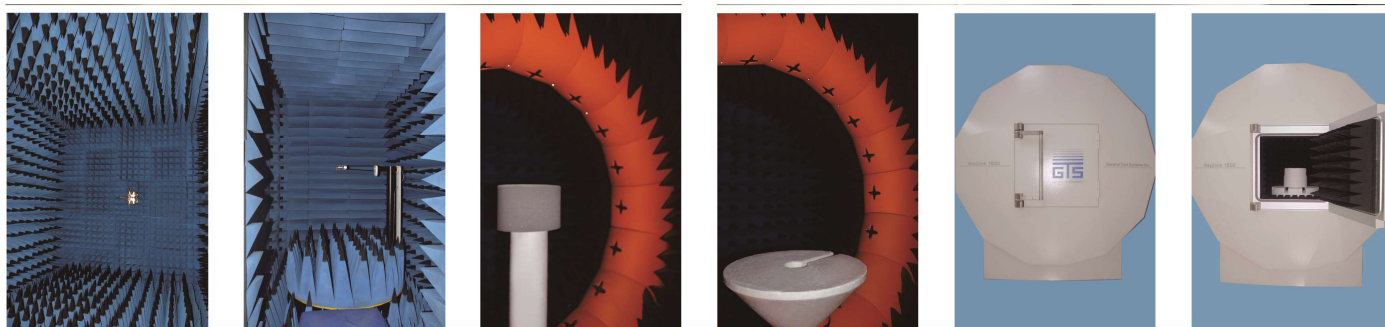
### 三： BT antenna 3D anechoic room data

FS	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	7.3	-88.7
	CH 39	7.5	-89.4
	CH 78	6.0	-88.6

FS	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	5.8	-88.6
	CH 39	7.6	-89.3
	CH 78	6.4	-88.7

HEAD	Channel	TRP (dBm)	TIS (dBm)
L	CH 0	4.3	-85.4
	CH 39	4.5	-85.6
	CH 78	3.4	-84.9

人头耳	Channel	TRP (dBm)	TIS (dBm)
R	CH 0	3.5	-84.8
	CH 39	4.0	-85.6
	CH 78	3.9	-85.2



OTA Standard Chamber



## 六: Construction

