



VERIO 200 OPEN TWS Antenna Spec

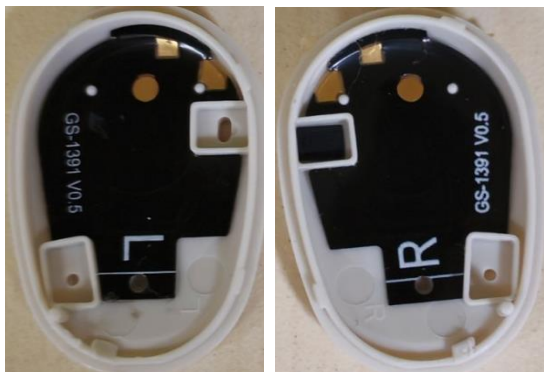
Part name: Antenna_FPC

Client: BD

Date: 2024-03-20

1. Antenna Type

The antenna is FPC , attached to the inside of the top cover , and works in 2.4GHz ISM band , central frequency at 2.45GHz.



Antenna Type	FPC	
Central Frequency	2.45GHz	
	L_Antenna	R_Antenna
Bandwidth	80MHz (Min)	70MHz (Min)
Return Loss	-10.3dB (Max)	-9.2dB (Max)
Peak Gain	-2.06dBi	-2.45dBi
Antenna Manufacturer	SZ Pulse	
Antenna Brand	NA	

2. Test Lab

Test lab: ETS Microwave Chamber with 23 measurement antennas in Grandsun Electronics OTA Lab.

AMS-8923 Basics

Regular Chamber Size: 16ft L x 16ft W x 16ft H
(4.9m x 4.9m x 4.9m)

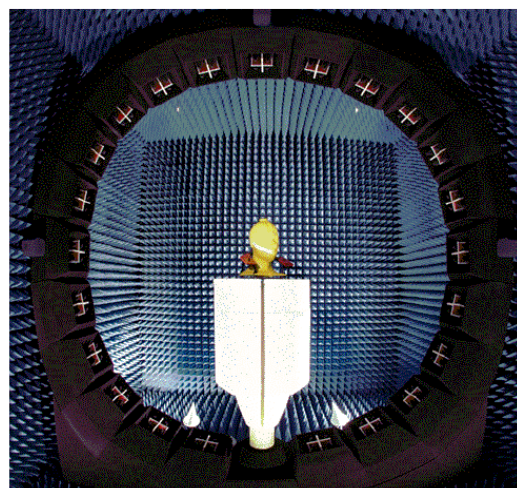
Test Distance: 1.95 meter

Frequency: 700MHz – 6GHz

Fully anechoic covered
with EHP-12 absorbers

Quiet Zone Diameter:

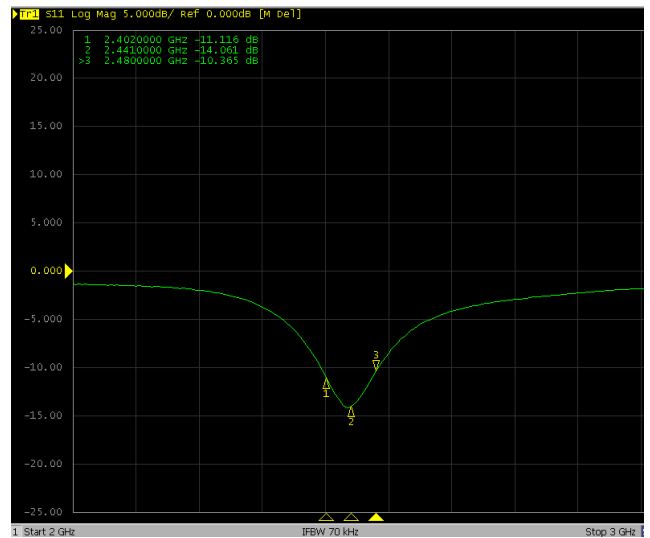
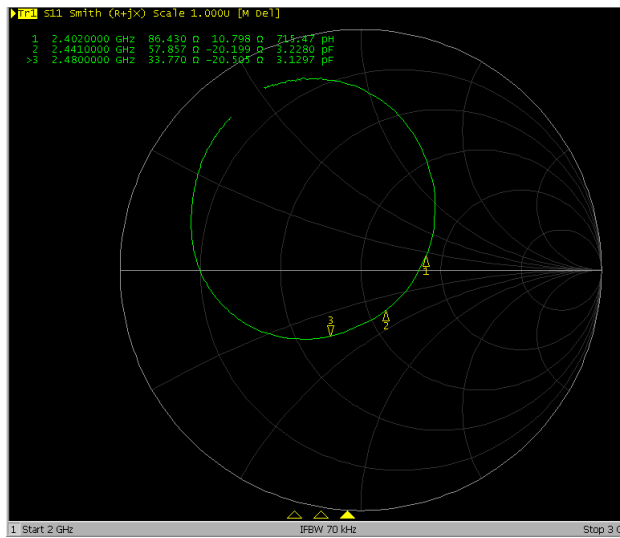
- 30cm
- 50cm
- per CTIA 3.2 versions



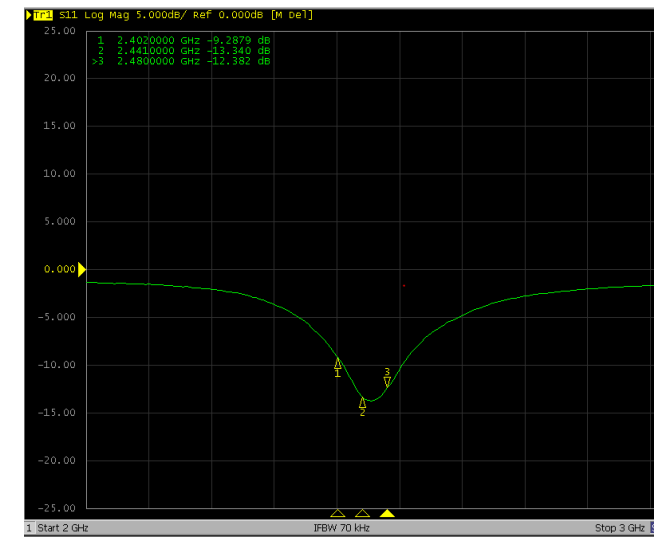
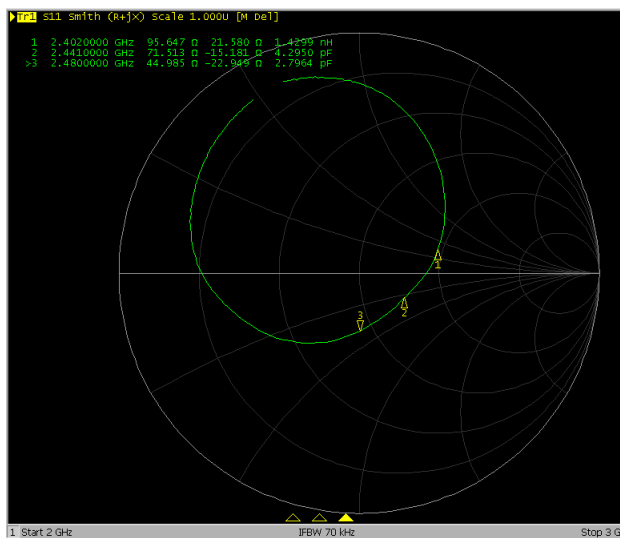
 **ETS·LINDGREN**

3. Passive test -S11

3.1 L Antenna (Smith Chart & Return Loss)



3.2 R Antenna (Smith Chart & Return Loss)

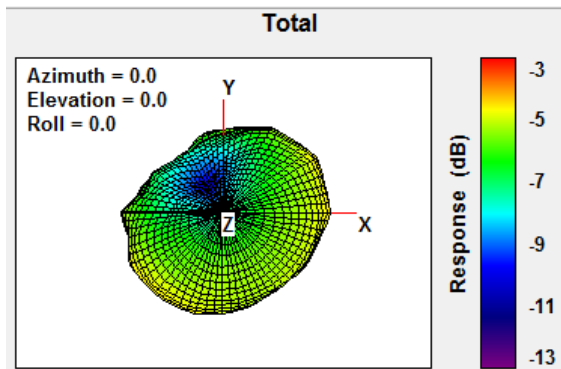
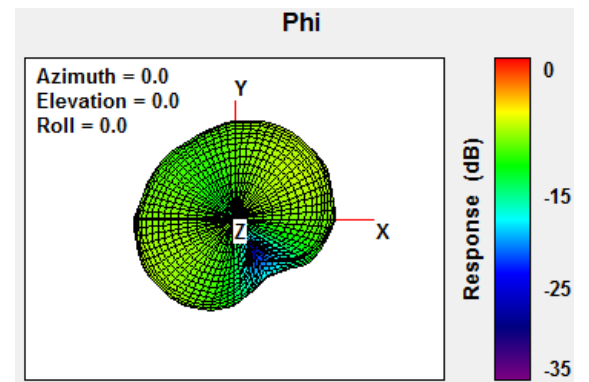
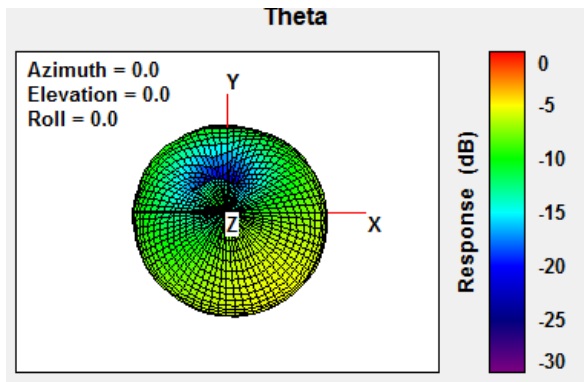


4. Passive Efficiency and Gain

	Frequency/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490
L Antenna	Efficiency/%	18.25	19.54	20.32	20.47	21.35	22.03	21.49	21.14	20.25	19.75
	Gain/dBi	-2.65	-2.57	-2.40	-2.35	-2.19	-2.06	-2.10	-2.24	-2.35	-2.32
R Antenna	Efficiency/%	17.81	18.83	19.33	19.43	19.62	19.91	19.22	18.78	17.95	17.26
	Gain/dBi	-3.28	-3.12	-3.02	-2.91	-2.64	-2.45	-2.52	-2.67	-2.85	-2.90

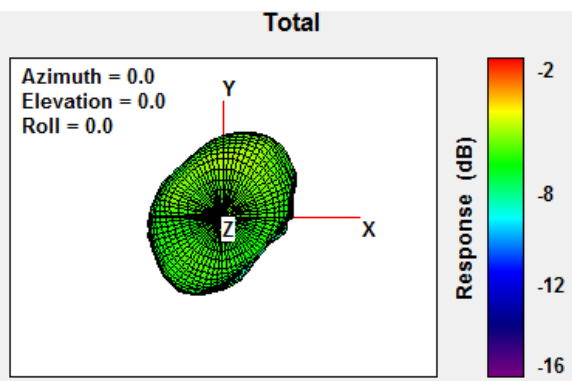
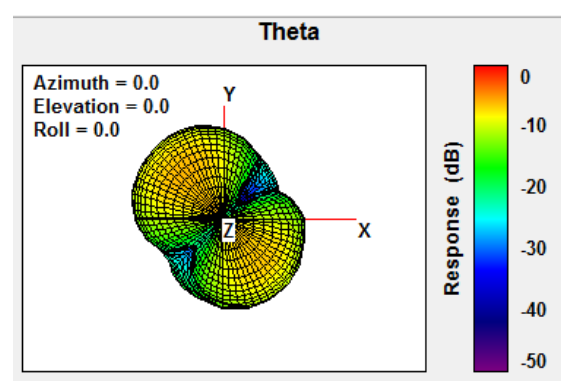
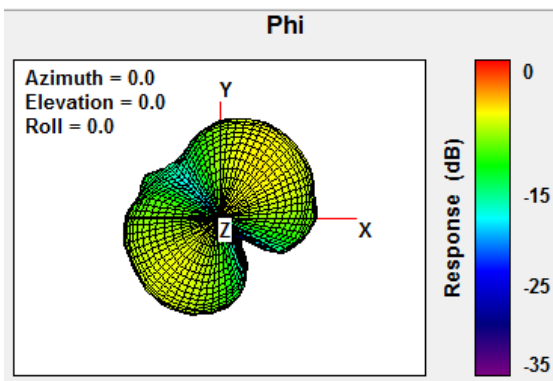
【Remark】 2400-2480MHz Peak Gain **-2.06 dBi(L) / -2.45 dBi(R)**

5. Passive Test Graph



L Antenna

Passive graph



R_Antenna

Passive graph

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