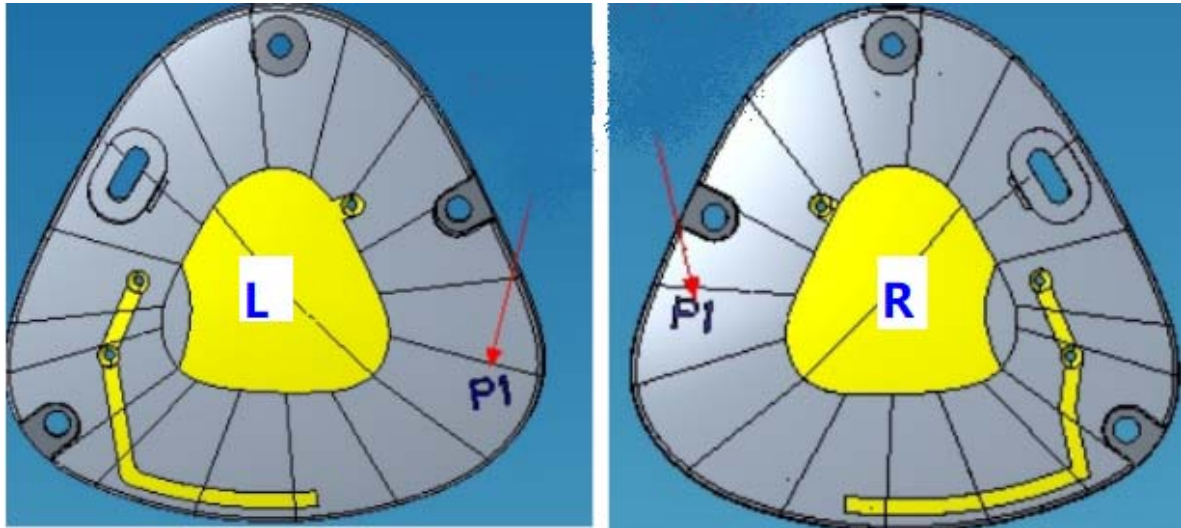




Cleer Clip Antenna Spec



Part name: Antenna_LDS

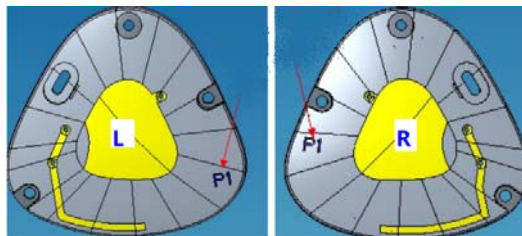
Client: Cleer

Date: 2025-07-25



1. Antenna Type

The antenna is LDS , attached to the outside of the mid- cover, and works in 2.4GHz ISM band , central frequency at 2.45GHz.



Antenna Type	PIFA _LDS	
Central Frequency	2.45GHz	
	L_Antenna	R_Antenna
Antenna length	15.5+3.2 mm	16.5+3.2 mm
Antenna width	0.8mm	0.8mm
Bandwidth	70MHz (Min)	80MHz (Min)
Return Loss	-9.4dB (Max)	-10.2dB (Max)
Peak Gain	-4.35dBi	-4.20dBi
Antenna Manufacturer	Sunnyway	

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)

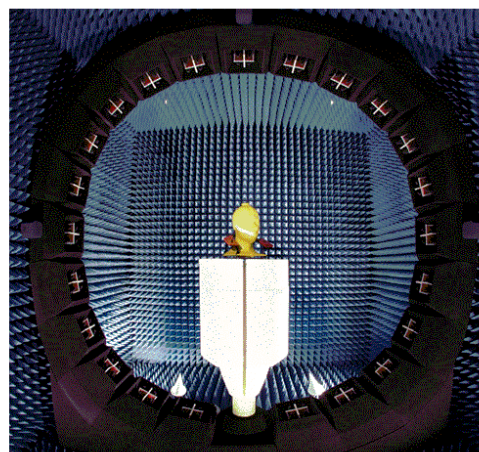
Test Distance: 1.95 meter

Frequency: 700MHz – 6GHz

Fully anechoic covered
with EHP-12 absorbers

Quiet Zone Diameter:

- 30cm
- 50cm
- per CTIA 3.2 versions

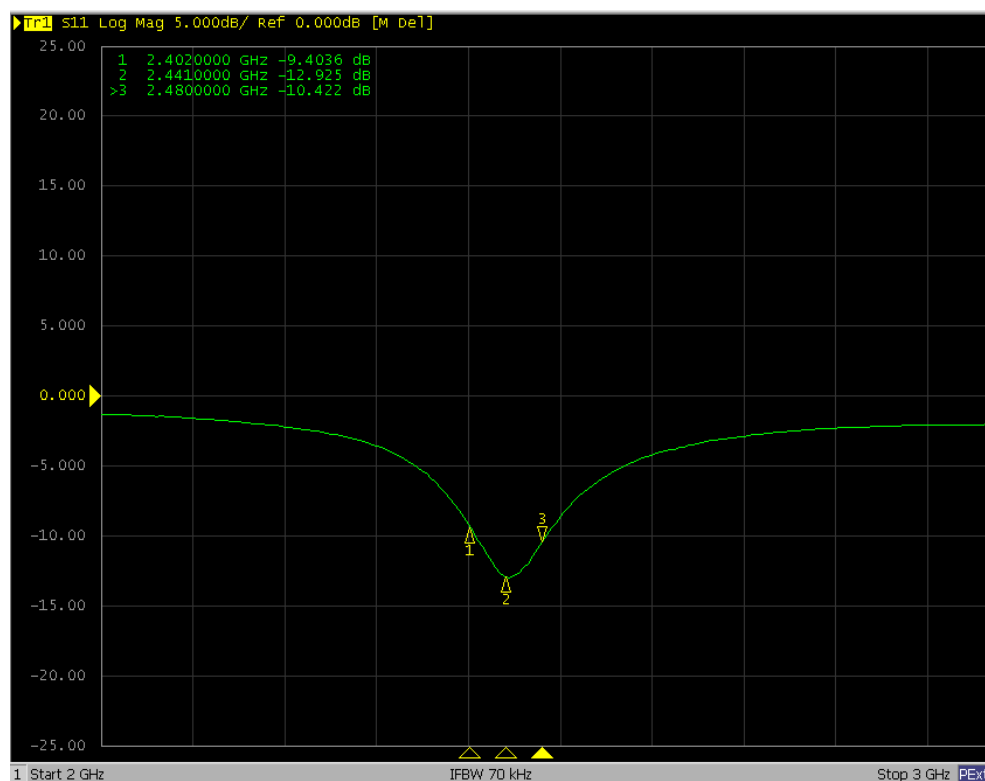
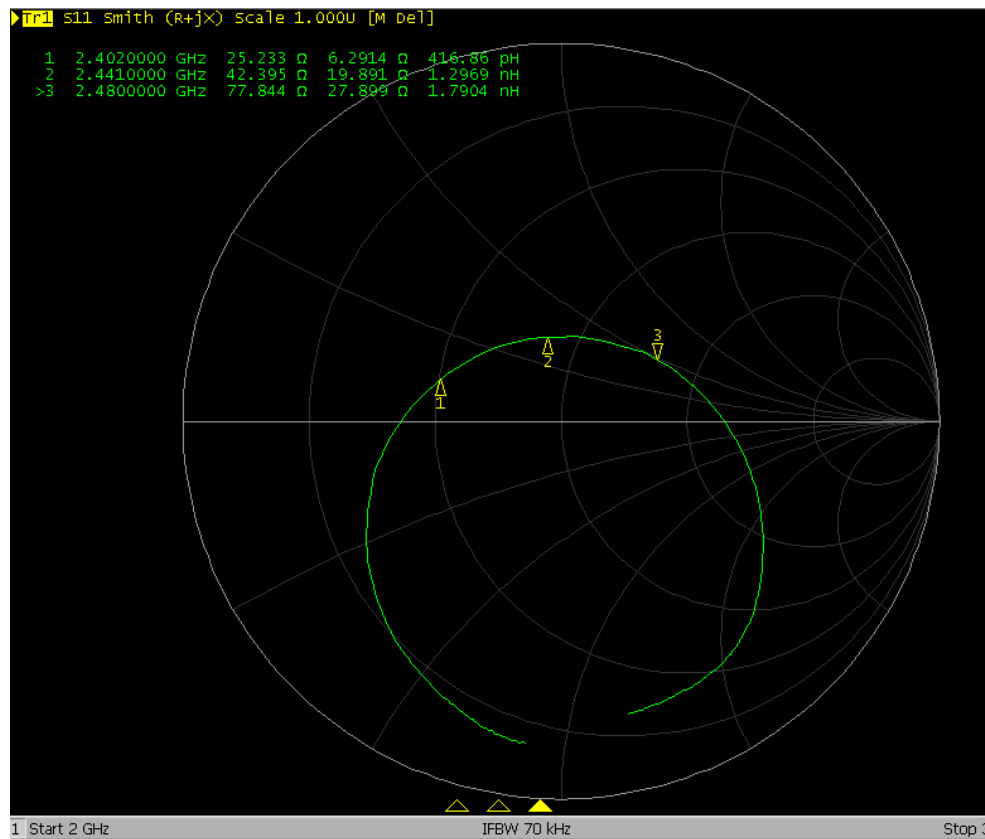


ETS·LINDGREN



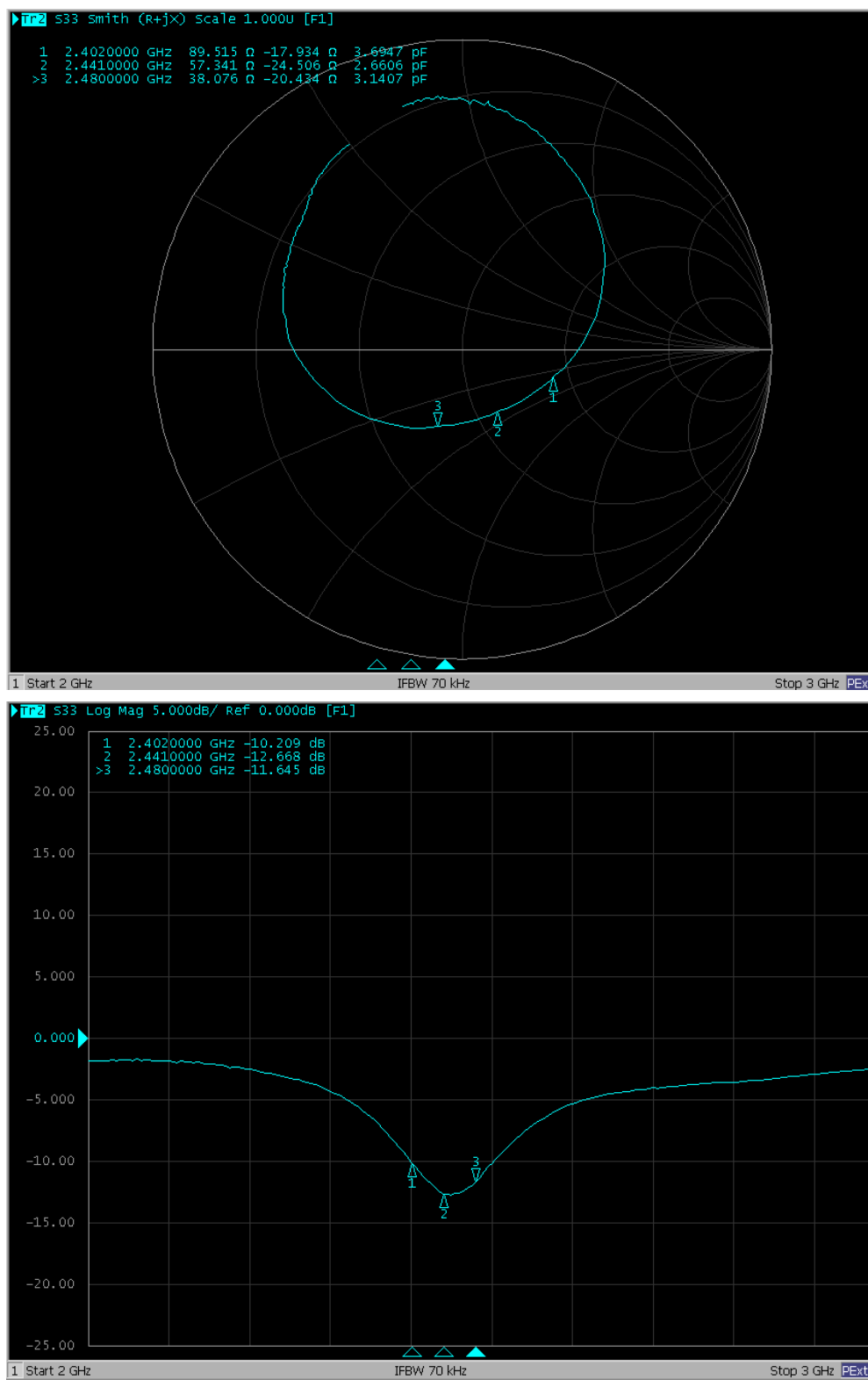
3. Passive test -S11

3.1 L Antenna





3.2 R Antenna





4. Passive Efficiency and Gain

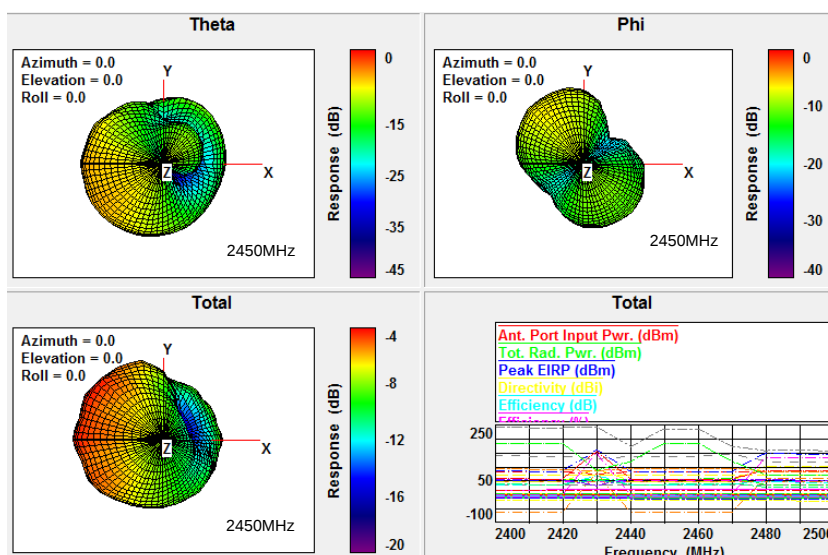
	Frequency/MHz	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490
L Antenna	Efficiency/%	16.32	17.54	18.68	18.78	19.22	20.08	19.83	19.68	19.70	20.11
	Gain/dBi	-4.75	-4.68	-4.59	-4.55	-4.46	-4.35	-4.50	-4.52	-4.41	-4.36
R Antenna	Efficiency/%	18.72	19.45	19.53	20.01	20.51	21.03	21.07	21.27	21.08	20.86
	Gain/dBi	-4.67	-4.65	-4.62	-4.51	-4.35	-4.25	-4.26	-4.20	-4.25	-4.28

【Remark】 2402-2480MHz Peak Gain -4.35 dBi(L) / -4.20 dBi(R)

5. Passive Test Graph

L_Antenna

Passive graph



R_Antenna

Passive graph

