



# VCU printed antenna report

Rev D

30 Sep-2022


# Revision History

Revision	Date	Description of changes
A	05 MAY-2021	initial report.
B	10 MAY-2021	Modify the BT printed antenna.
C	11 APR-2022	BT Antenna impedance matching.
D	30 Sep-2022	For DVT PCB verification

# Content

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# 1.0 Summary

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- A large, light blue decorative circle is partially visible on the left side of the slide.
- ◆ This report SINBON provide the antenna test result.
  - ◆ Test result are shown in section 4.

## 2.0 Test fixtures pictures

SINBON

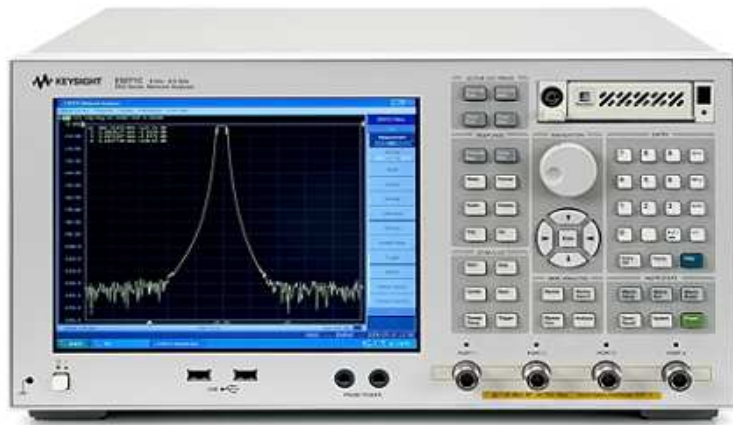


## 2.0 Test fixtures pictures

SINBON

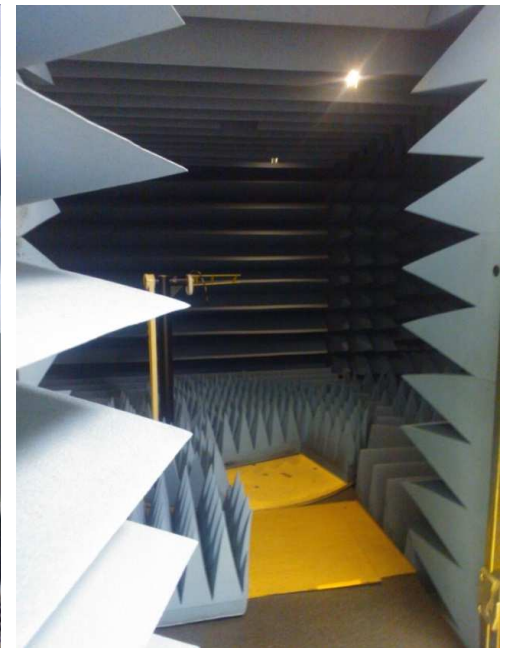
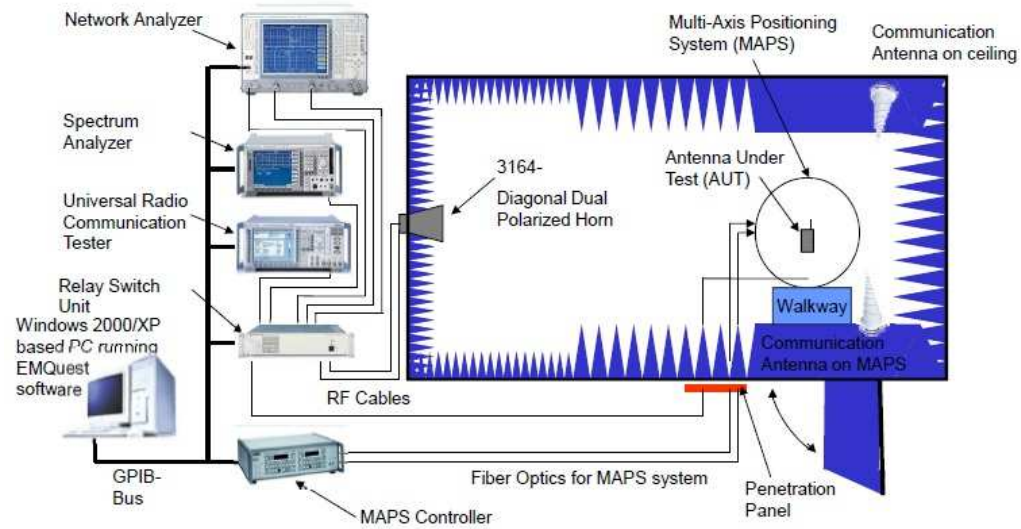


### 3.0 Test setup (Network Analyzer)



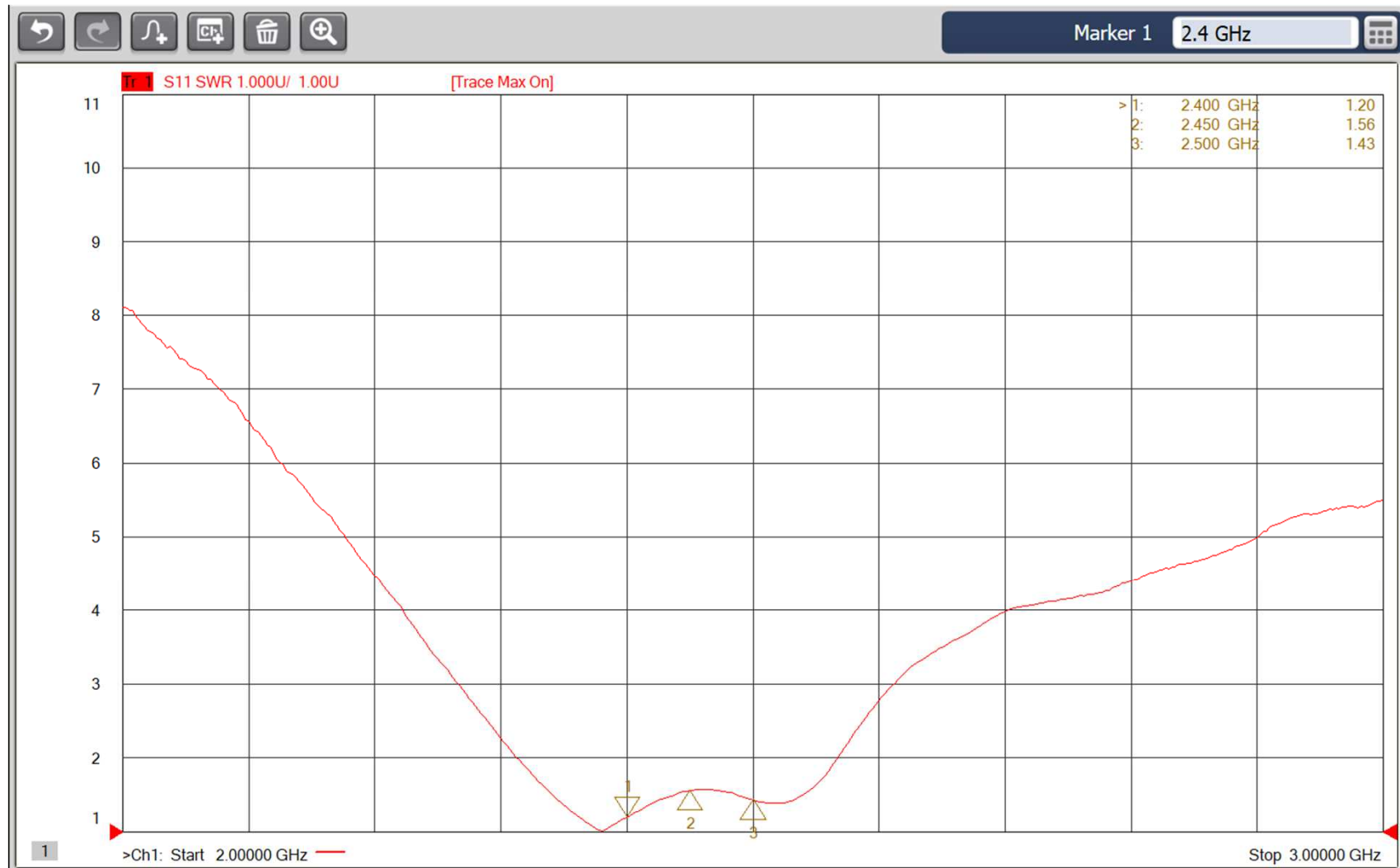
VSWR / Return Loss measurements were performed using an Agilent E5071C Network Analyzer and the test fixture shown in section 2. The testing was performed in free space. The complete VSWR and Return Loss plots are provided in section 4.0.

## 3.1 ETS Chamber - AMS-8500





# 4.0 VSWR

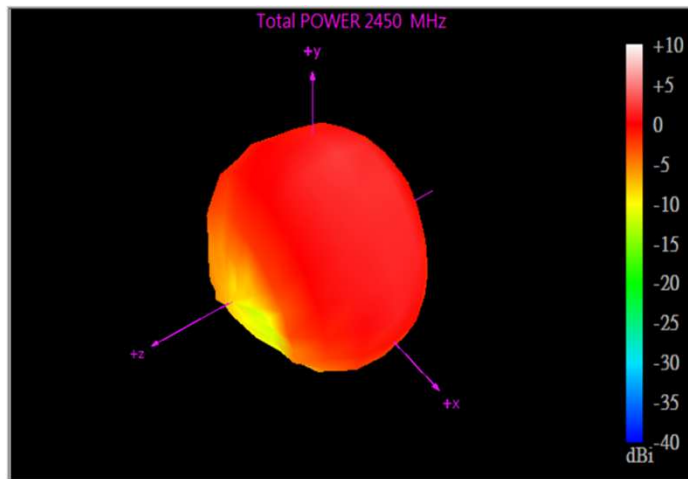


## 4.1 Efficiency/Peak Gain

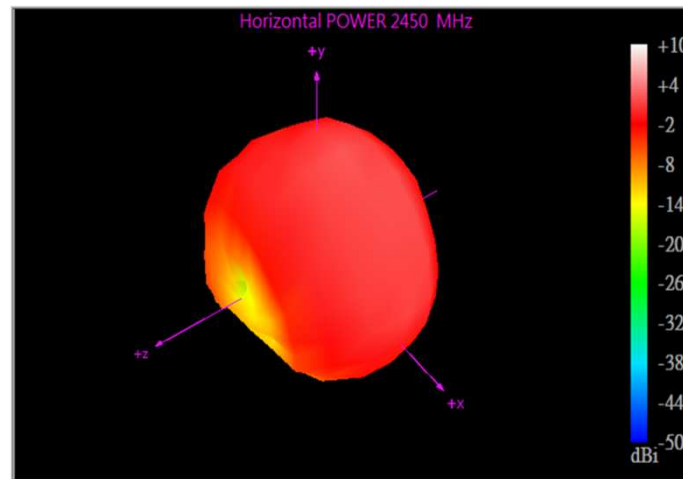
	BT Antenna(NEW)		
	Free Space		
MHz	Efficiency (dB)	Efficiency (%)	Peak Gain (dBi)
2400	-3.29	46.91	3.01
2410	-3.08	49.22	3.21
2420	-3.63	43.34	2.54
2430	-3.96	40.17	2.33
2440	-4.16	38.33	2.44
2450	-4.25	37.58	2.28
2460	-4.07	39.14	2.35
2470	-4.12	38.70	2.38
2480	-4.36	36.60	1.63
2490	-4.01	39.69	2.59
2500	-3.29	46.91	3.01

## 4.2 3D Radiation pattern

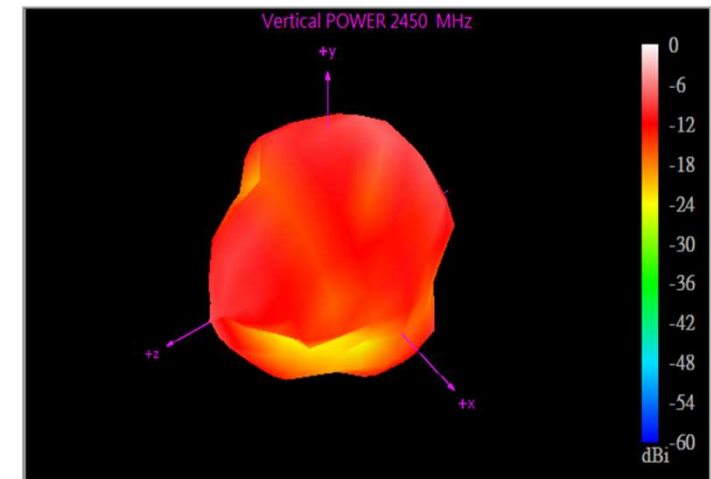
2450 MHz



Total Power



Horizontal Power



Vertical Power



**thank you**

*danke děkuji ありがとう merci gracias  
grazie kiitos הודות köszöni tak tack*