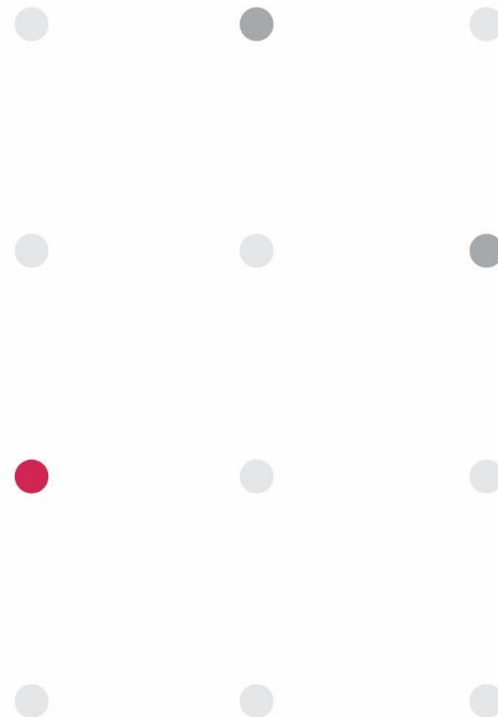


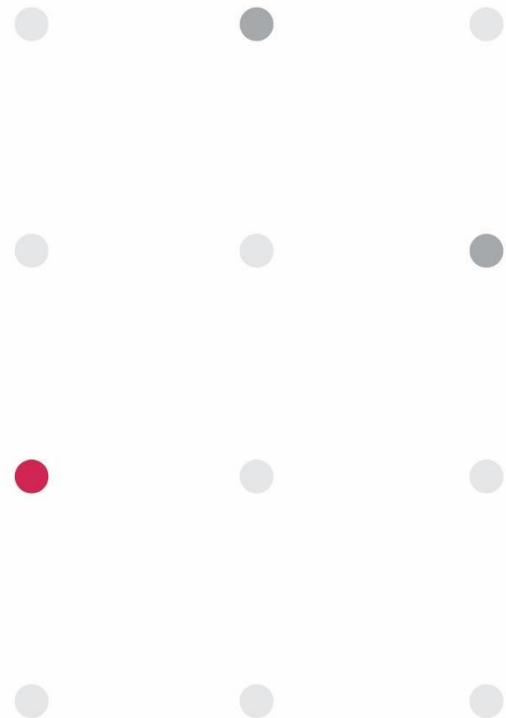
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Contents

- Revised History
- Requirement of Antenna Design and Measurement
- Antenna Placement & Solution
- VSWR Results
- Test Setup for Radiation Pattern Measurement
- 2D、 3D Radiation Pattern Results
- Results Summary (peak gain , efficiency)

Revision History

Released Date	Version	Record
May.08 th ,2020	V0	First edition machine test report

Requirements of Antenna Design and Measurement

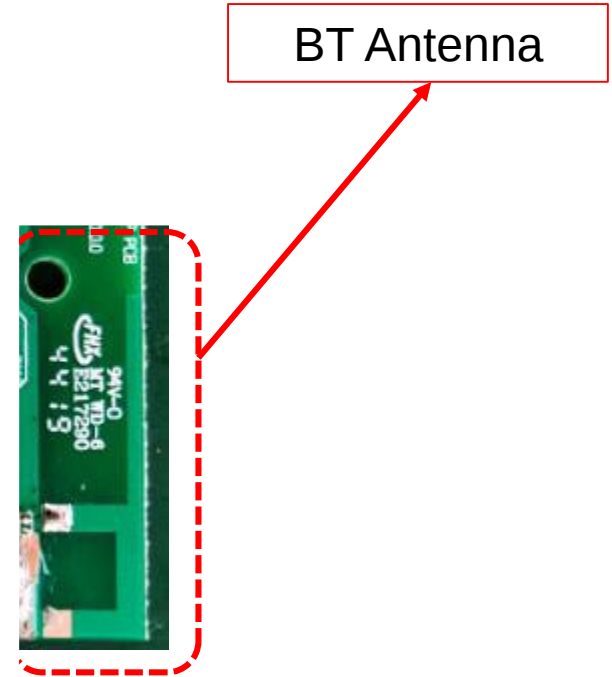
Requirements of Antenna Design

RF Function	Color of Cable	Frequency Band	Remark
Ant	NA	2400 –2500MHz	BT

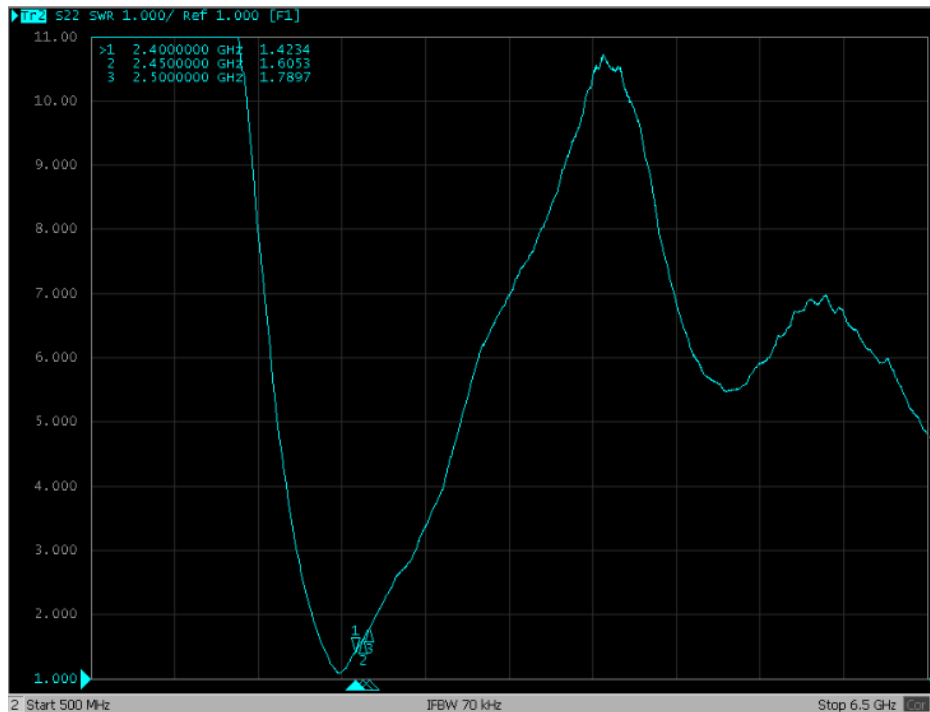
Requirements of Measurement

Test Item	Specification	Remark
VSWR	<2	
Peak gain	<3	
Efficiency	>40	

Antenna Placement & Solution



VSWR Results—BT



Frequency (MHz)	2400	2450	2500
VSWR	1.42	1.61	1.79

Test Setup for Radiation Pattern Measurement

ETS Ams-8600 12.91x3.05x3.05 m³ Tapered Chamber

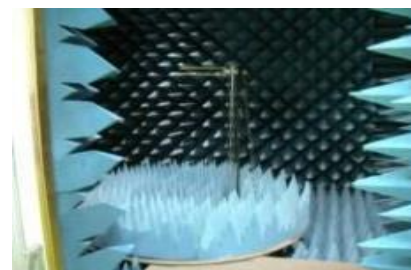
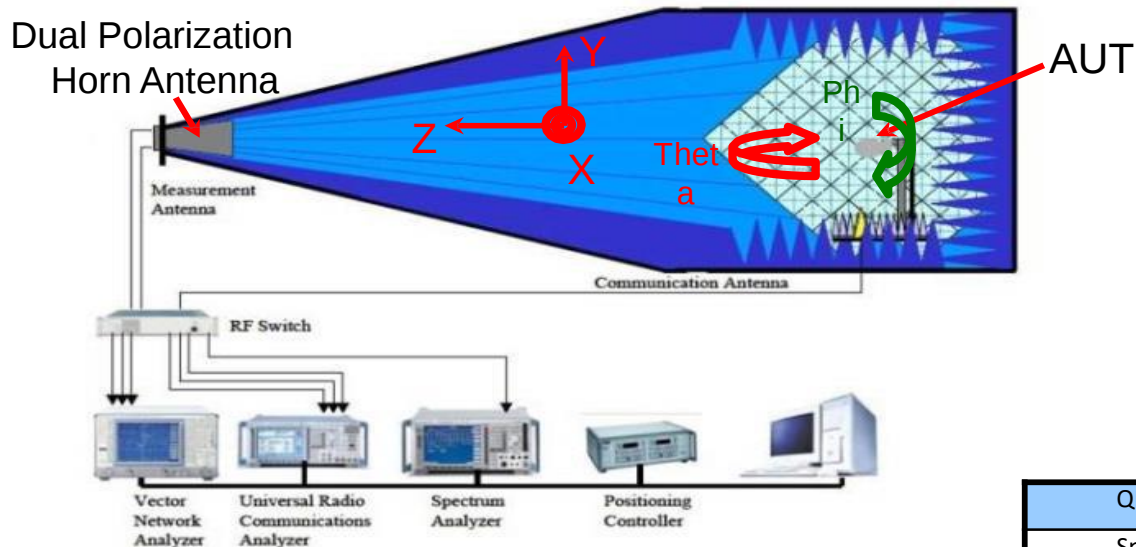
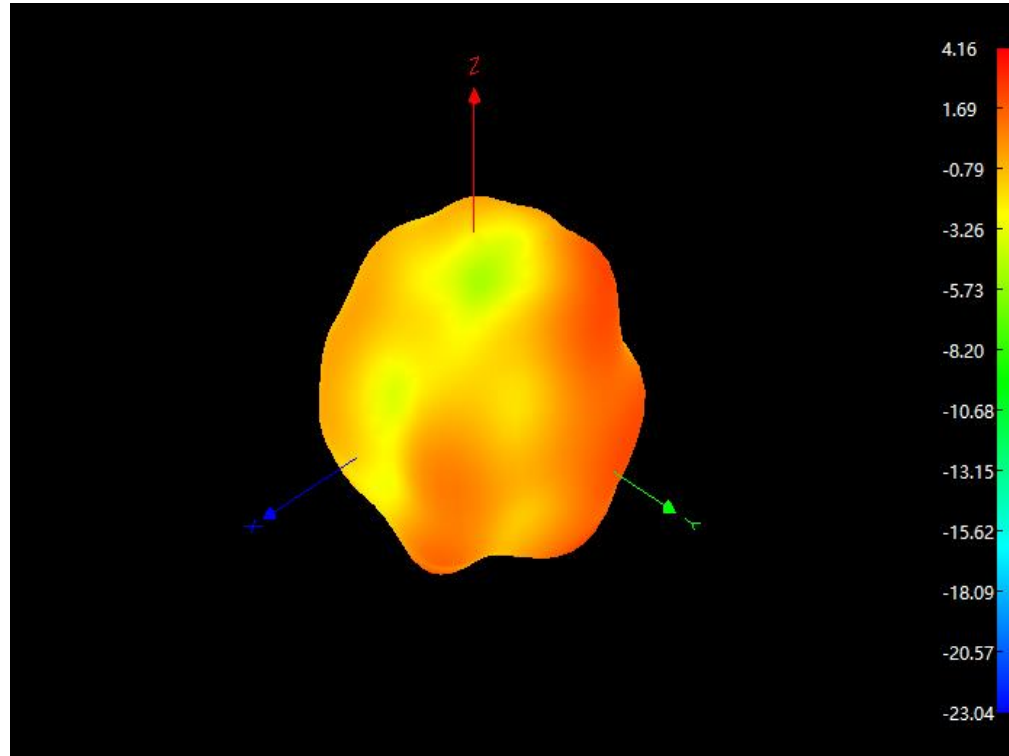


Figure 1: System diagram for test system including compact-size tapered anechoic chamber and optional test instrumentation

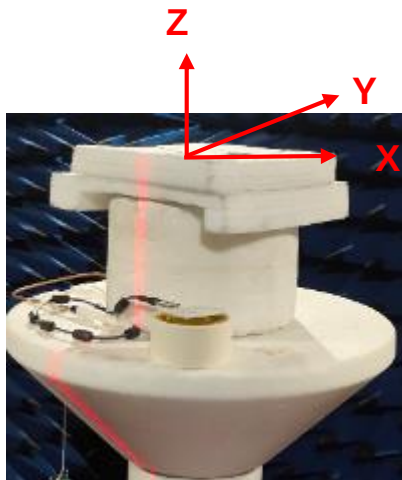


QUIPMENT	BRAND	MODULE TYPE
Spectrum	Agilent	E4402B
Signal Generator	Agilent	8960
Switch	Agilent	3499A
Switch	ETS	2090
Network Analyzer	Agilent	N5230A

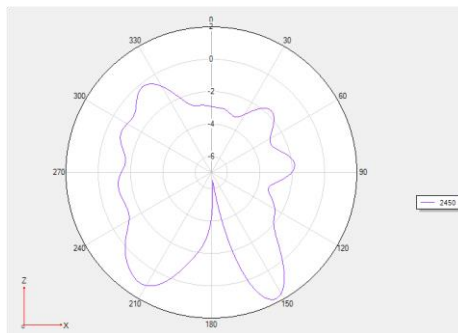
3D Radiation Pattern Results-BT



2D Radiation Pattern Results-BT



XZ-E1-plane
Z



XY-H-plane

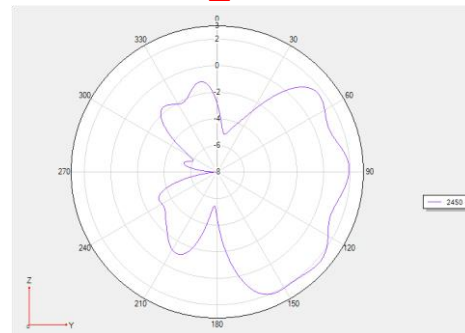
X



Y

YZ-E2-plane

Z



Y

X

Results Summary (peak gain , efficiency)

Frequency (MHz)	BT	
	Efficiency (%)	Peak Gain (dBi)
2400	65.01	3.99
2410	64.27	4.12
2420	63.66	4.08
2430	62.95	4.08
2440	62.83	4.13
2450	62.22	4.16
2460	61.46	3.94
2470	61.1	3.46
2480	60.31	3.1
2490	60.01	3.09
2500	59.92	2.73