AzureWave Technologies, Inc.

AW-CM358AN
Antenna Test Report

2022/8/22

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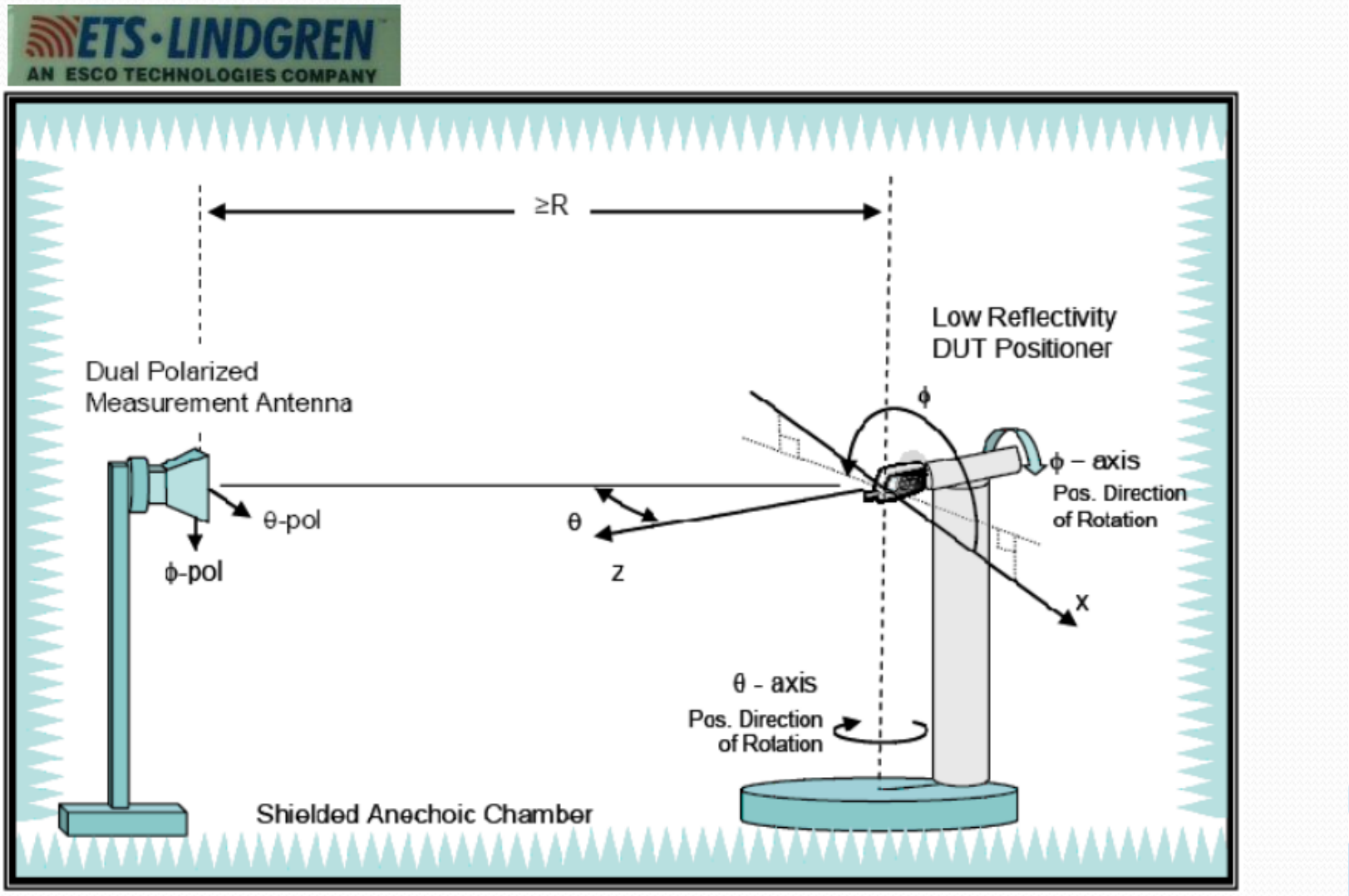
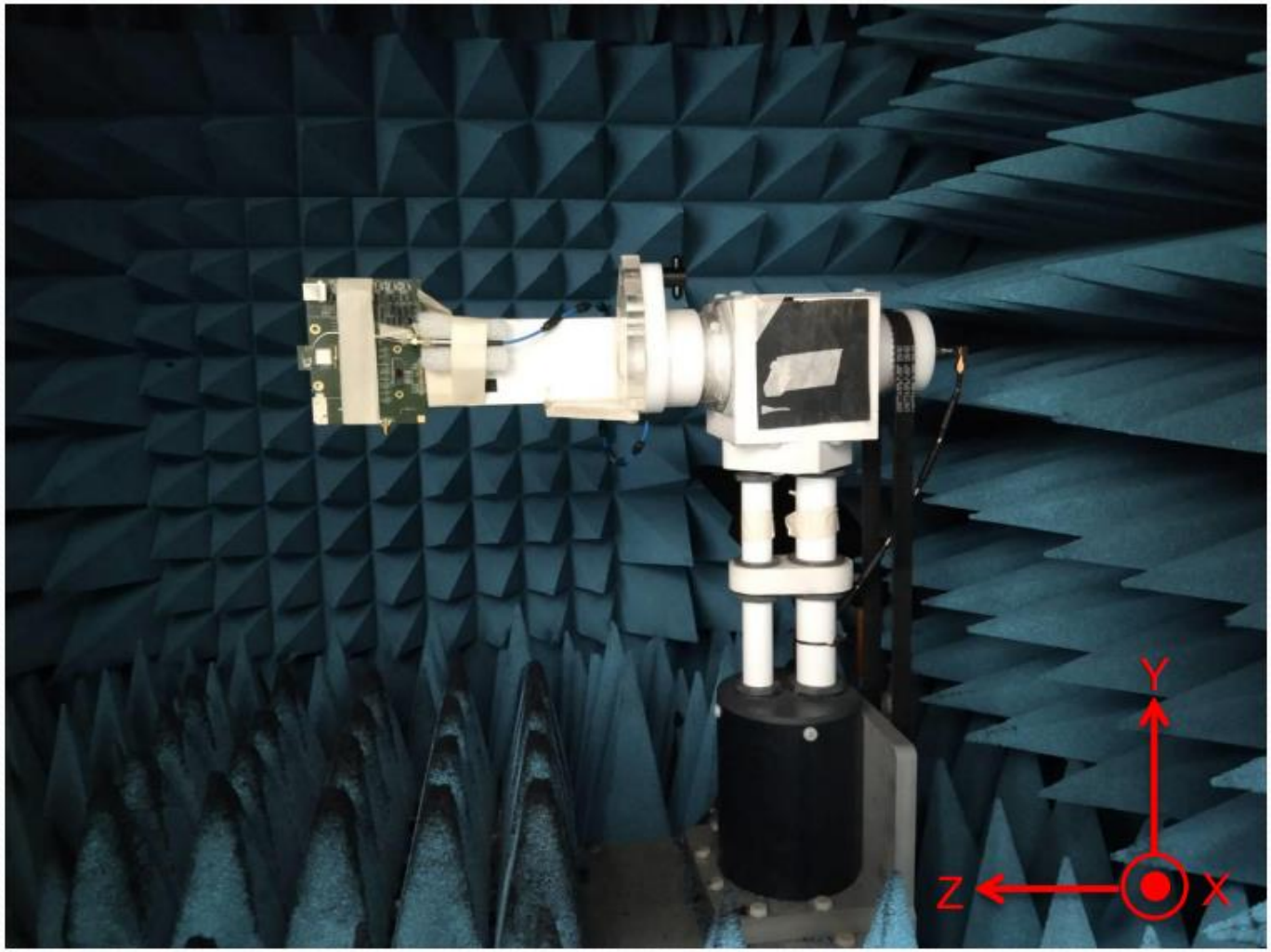
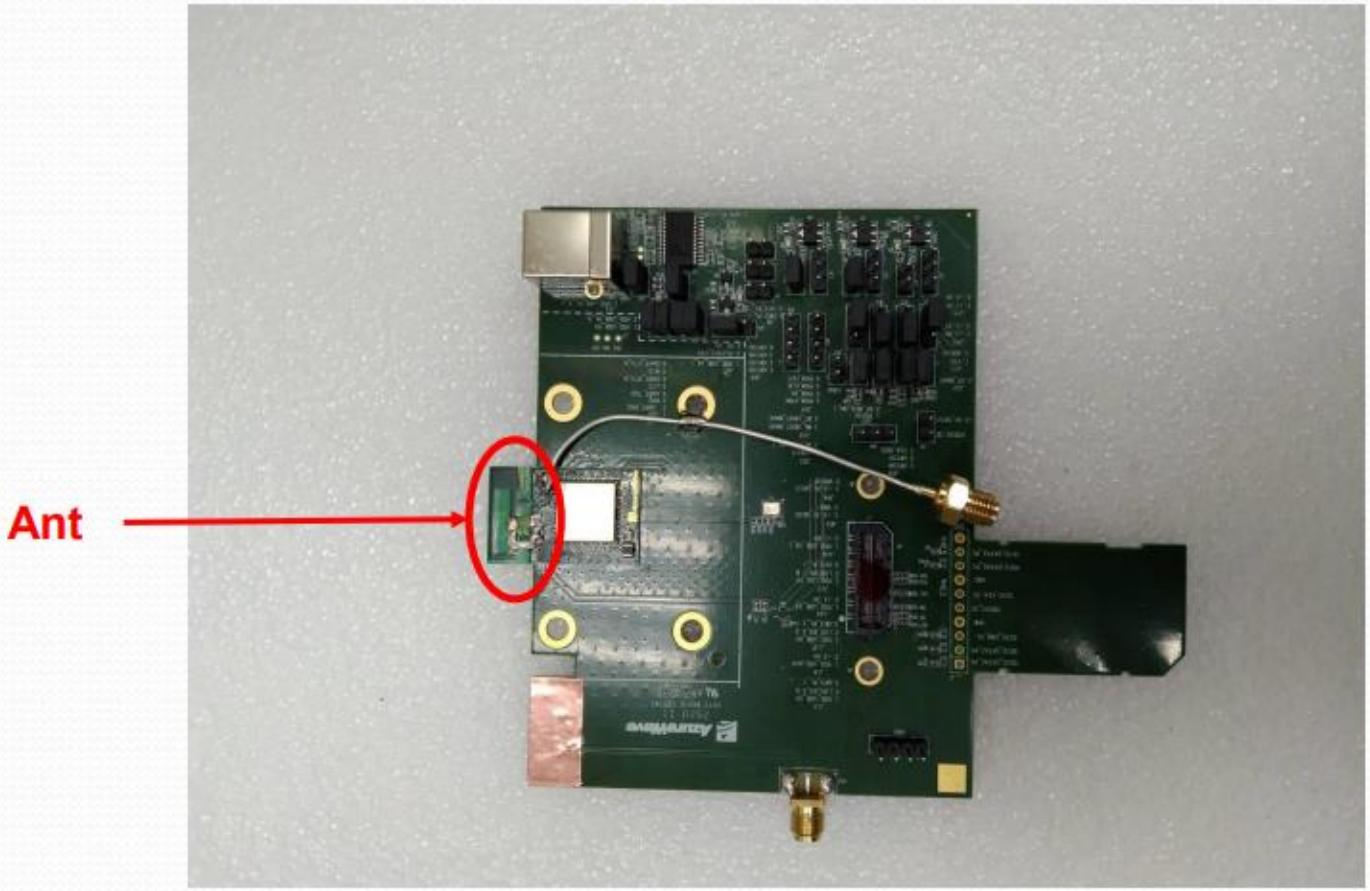
Antenna Test System



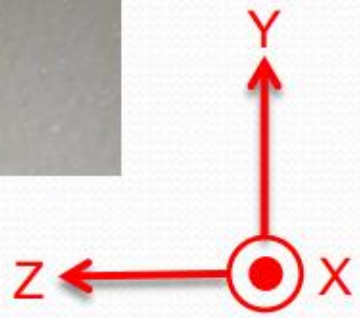
Antenna Under Test



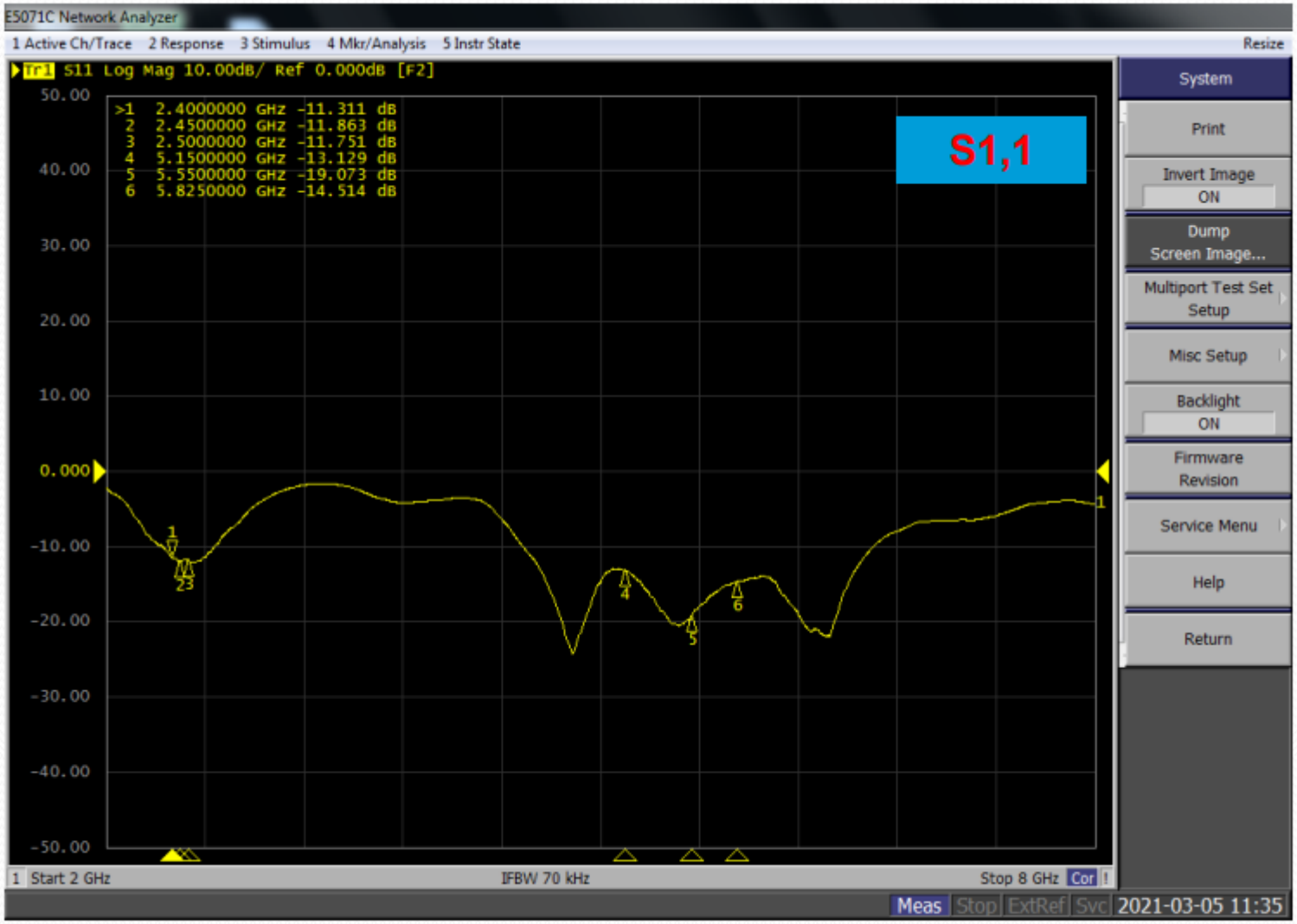
Antenna Placement



Ant :Dual Band(2.4GHz & 5GHz)



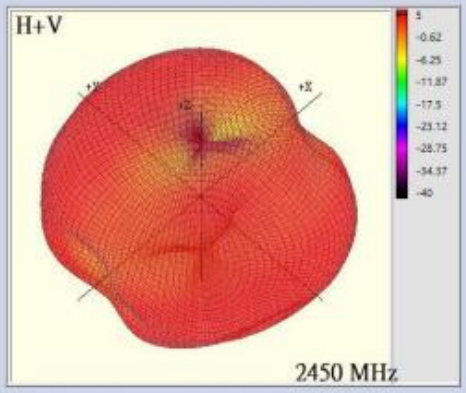
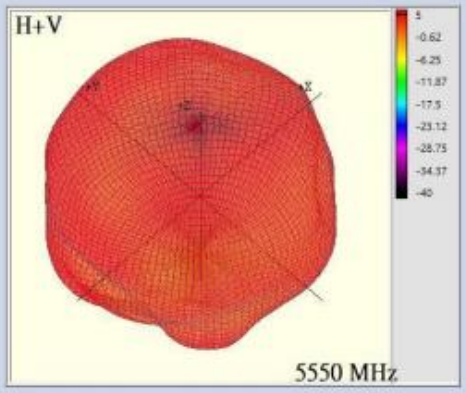
S-parameter


E5071C Network Analyzer
1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State
Resize
Tr1 S11 Log Mag 10.00dB/ Ref 0.000dB [F2]
>1 2.4000000 GHz -11.311 dB
2 2.4500000 GHz -11.863 dB
3 2.5000000 GHz -11.751 dB
4 5.1500000 GHz -13.129 dB
5 5.5500000 GHz -19.073 dB
6 5.8250000 GHz -14.514 dB
S1,1
50.00
40.00
30.00
20.00
10.00
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
1 Start 2 GHz
IFBW 70 kHz
Stop 8 GHz
Cor
Meas
Stop
ExtRef
Svc
2021-03-05 11:35
System
Print
Invert Image
ON
Dump
Screen Image...
Multiport Test Set
Setup
Misc Setup
Backlight
ON
Firmware
Revision
Service Menu
Help
Return

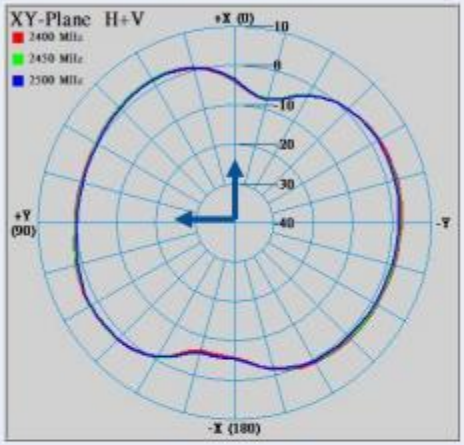
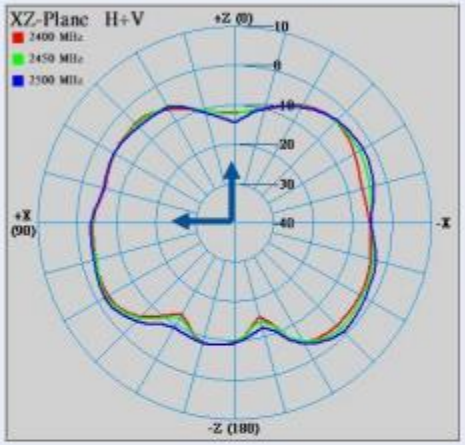
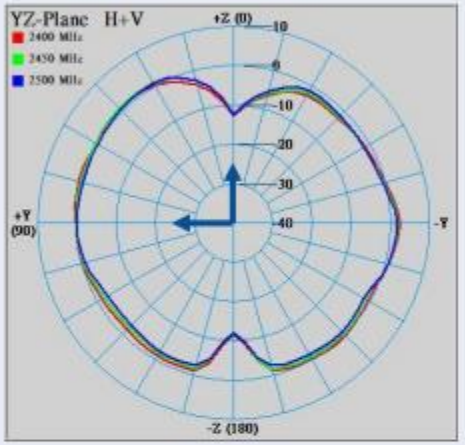
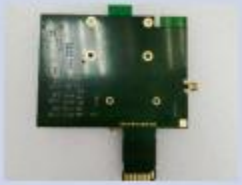
Gain Table

	Ant.1					
Frequency(MHz)	2400	2450	2500	5150	5550	5825
Efficiency(%)	63	61	60	67	65	69
Peak Gain(dBi)	3.4	3.2	3.2	2.6	3.3	3.4

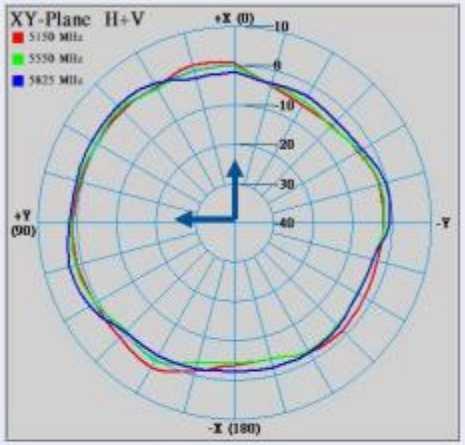
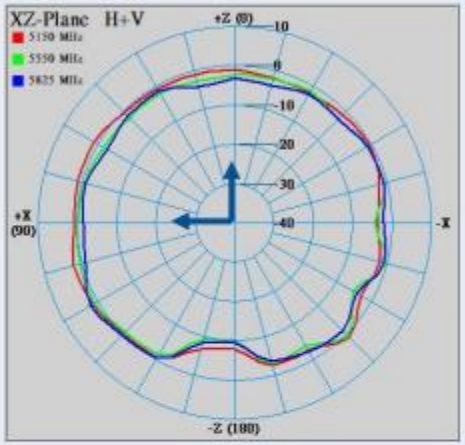
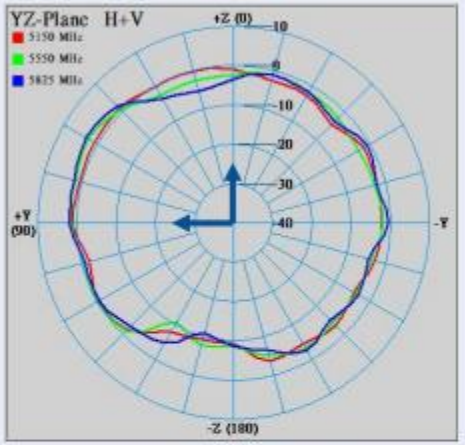
Ant 3D Radiation Pattern

	2G	5G
Ant		

Ant 2.4G_2D Radiation Pattern

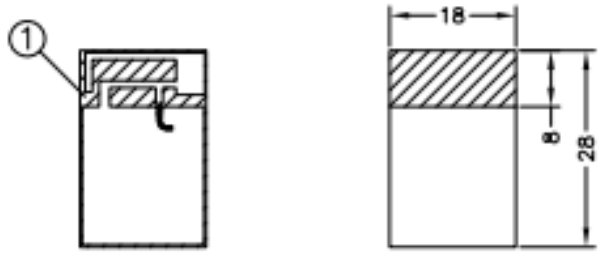
Frequency	2.4GHz		
Plane	XY	ZX	ZY
Radiation Pattern			
Setup	X Y 	Z X 	Z Y 

Ant 5G_2D Radiation Pattern

Frequency	5GHz		
Plane	XY	ZX	ZY
Radiation Pattern			
Setup			

Summary

- The antenna characteristics
  - Return loss <-10dB in operating band
  - Gain
    - Ant 2.4G band 3.2~3.4dBi
    - Ant 5G band 2.6~3.4dBi
  - Efficiency
    - Ant 2.4G band >60%
    - Ant 5G band >65%



TOP BOTTOM

備註:

:Without GND

No.	Description	Specification	Qty	Notes
1	Without GND			

TOLERANCE		CUSTOMER	PART NO.	DESCRIPTION:	DWG NO.	REV.
XXX.	±1.0	----	----	Layoutguideline	2520	A1

XX.	±0.5	PROJECTION	UNIT	SCALE	SIZE	SHEET
X.	±0.3		mm	1:1	A4	1/1
.X	±0.1	APPROVED: -----	DESIGNED: Jerry	DRAWN: Anna		
.XX	±0.05					

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AzureWave Technologies, Inc.

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