

PASSIVE SYSTEM ALLIANCE
WALSIN TECHNOLOGY CORPORATION

# 光寶\_RFMTA401017IMMB301

Presented by

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Version	Date	Description	Author
V01	2020/11/12	New Release	Kerry

# **OUTLINE**

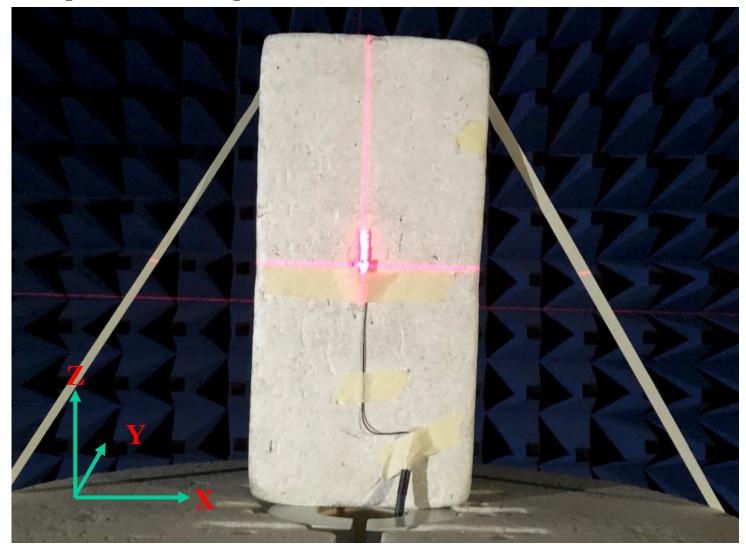
- 1. Measurement Information
  - 1.1 Experimental Setup

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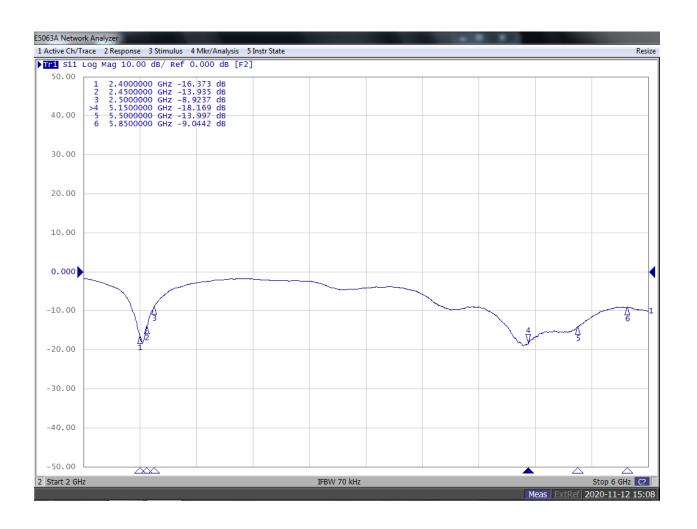


# 1. Measurement Information

# 1.1 Experimental Setup



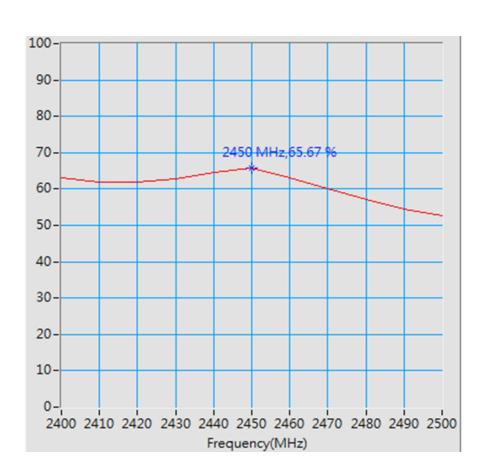
#### 2.1 Return Loss

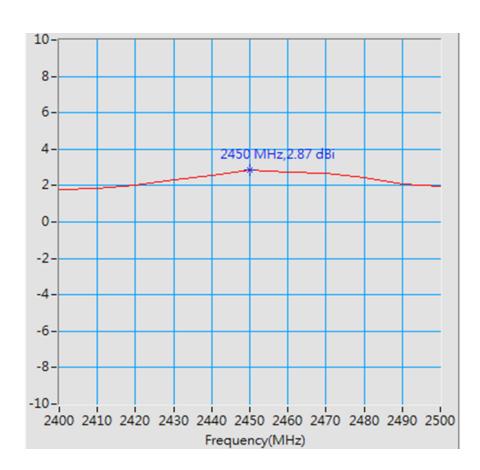




2G

# 2.2 Antenna Efficiency and Peak Gain



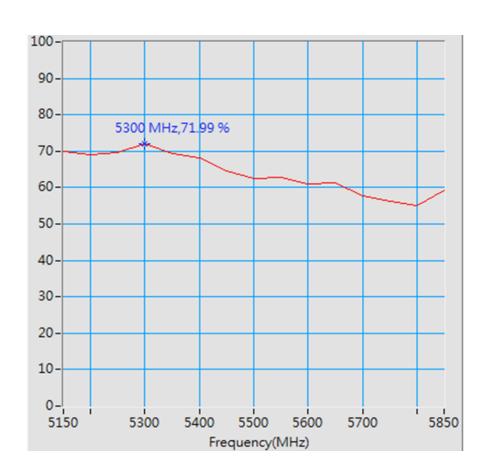


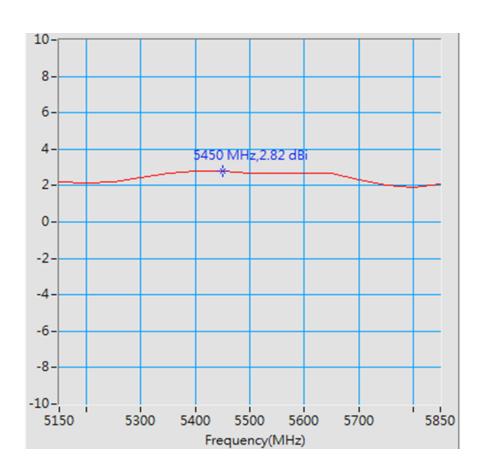
Maximum Efficiency at 2450MHz: 65.67%

Maximum Peak Gain at 2450MHz: 2.87dBi



# 2.2 Antenna Efficiency and Peak Gain





Maximum Efficiency at 5300MHz: 71.99%

Maximum Peak Gain at 5450MHz: 2.82dBi



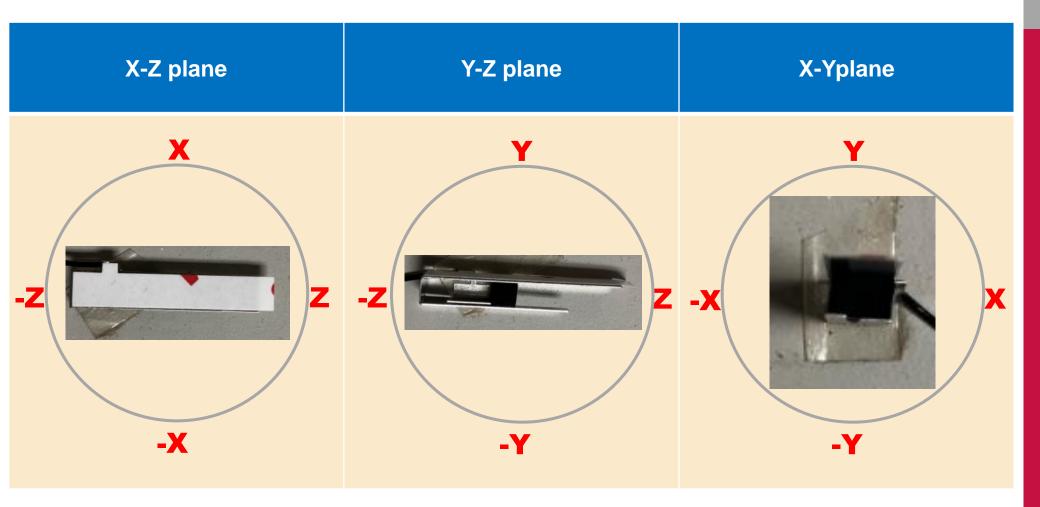
# 2.2 Antenna Efficiency and Peak Gain

	2G		
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)	
2.4	63.18	1.79	
2.45	65.67	2.87	
2.5	52.74	1.97	

	5G		
Frequency (GHz)	Efficiency (%)	Peak gain (dBi)	
5.15	69.90	2.18	
5.5	62.41	2.69	
5.85	59.25	2.06	

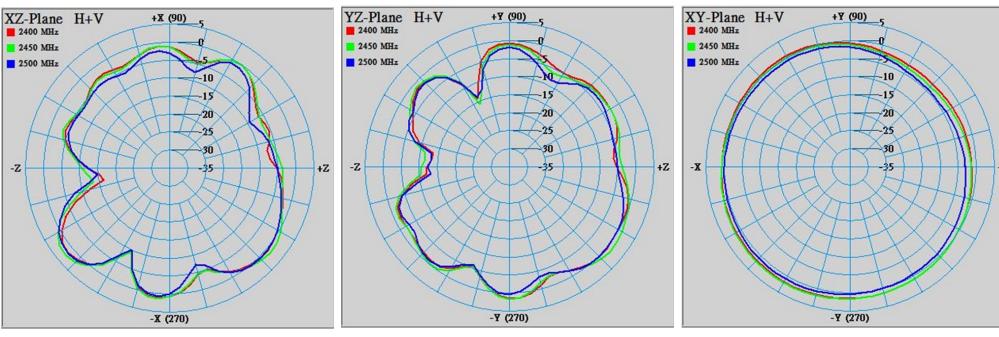


#### 2.3 3 views of antenna



2**G** 

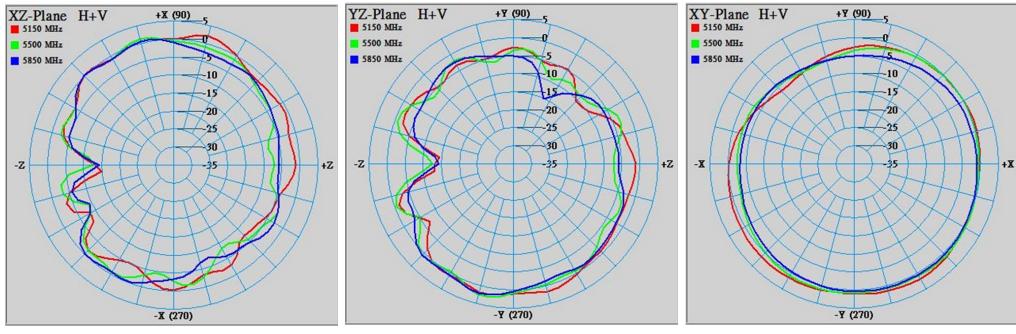
#### 2.3 2D Radiation Patterns



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	1.67	-2.50	1.57	-2.48	1.79	0.23
2450	2.71	-2.13	1.60	-2.24	2.05	0.12
2500	1.86	-3.00	0.32	-3.26	0.84	-0.98

5G

#### 2.3 2D Radiation Patterns



	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
5150	2.15	-2.01	1.88	-2.14	1.72	-0.22
5500	1.25	-2.82	2.68	-2.55	0.93	-0.82
5850	0.59	-2.93	2.06	-2.91	0.54	-1.61

# 3. Summary

• The performance of antennas is shown in table

	2G	5G
Maximum Efficiency (%)	65.67	71.99
Maximum Gain (dBi)	2.87	2.82

# Thank you

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