

PASSIVE SYSTEM ALLIANCE WALSIN TECHNOLOGY CORPORATION

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PASSIVE SYSTEM ALLIANCE

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明泰RG-18

Presented by

Ethan

Walsin Technology Corporation

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Version	Date	Description	Author
V01	2021/10/06	New Release	Ethan
V02	2021/10/08	不使用π型電路Matching阻抗, 重新調測天線	Ethan

OUTLINE

1. Measurement Information

1.1 Experimental Setup

1.2 Antenna Solution Detail

2. Antenna Characteristics

2.1 Return Loss

2.2 Antenna Efficiency and Peak Gain

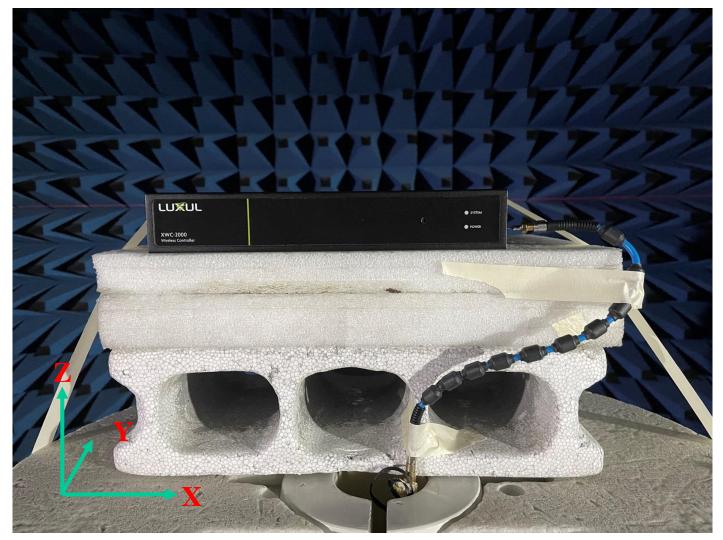
2.3 3 views of antenna & 2D Radiation Patterns

3. Summary



1. Measurement Information

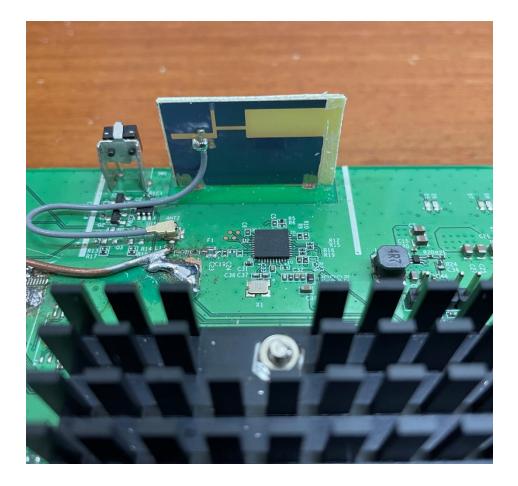
1.1 Experimental Setup





1. Measurement Information

1.2 Antenna Solution Detail



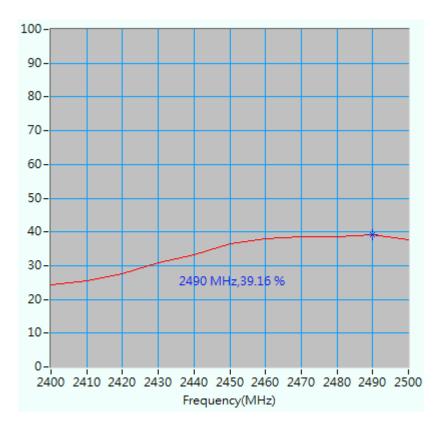
Cable length: 1.13*70mm



2.1 Return Loss



2.2 Antenna Efficiency and Peak Gain



Maximum Efficiency at 2490 MHz : 39.1 %

8-6-4-2-0-2500 MHz,2.37 dBi -2--4--6--8--10-2400 2410 2420 2430 2440 2450 2460 2470 2480 2490 2500 Frequency(MHz)

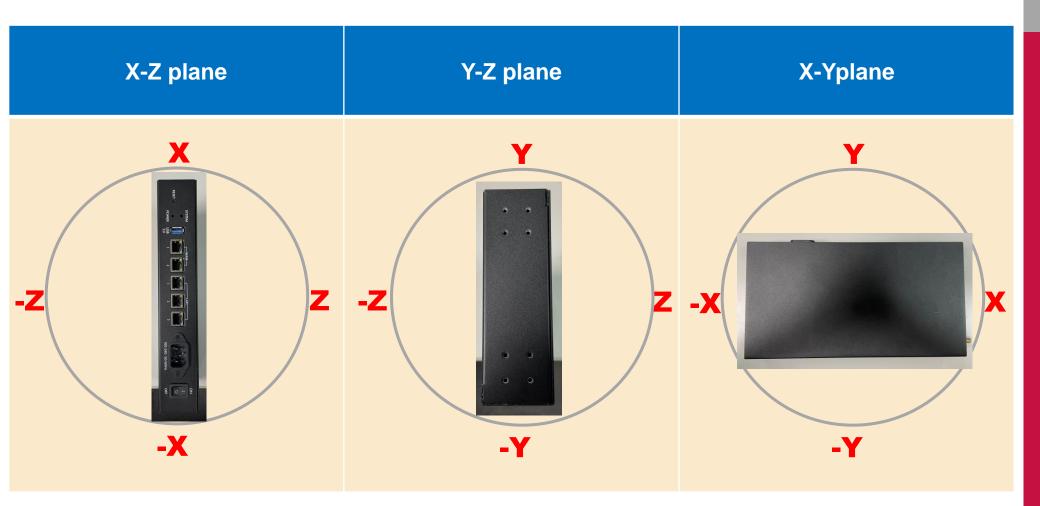
Maximum Peak Gain at 2500 MHz : 2.37 dBi

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2.2 Antenna Efficiency and Peak Gain

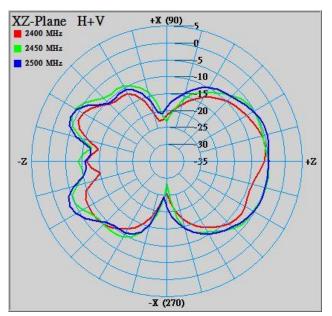
	RG-18		
Frequency (MHz)	Efficiency (%)	Peak gain (dBi)	
2400	24.2	0.52	
2450	36.4	2.06	
2500	37.7	2.37	

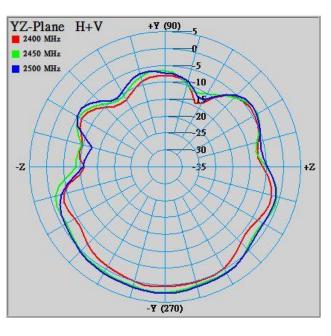
2.3 3 views of antenna

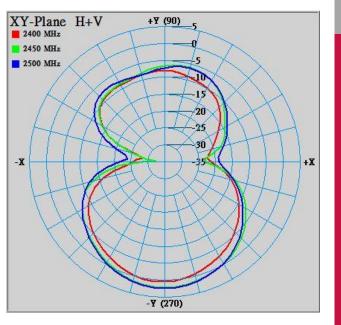




2.3 2D Radiation Patterns







	ZX plane		ZY plane		XY plane	
Frequency [MHz]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]	Max Value [dB]	Average [dB]
2400	-5.62	-10.26	0.51	-3.91	0.46	-6.17
2450	-3.84	-8.08	2.07	-2.27	2.07	-4.33
2500	-3.42	-7.91	2.37	-2.12	2.30	-4.17
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3. Summary

• The performance of antennas is shown in table

	RG-18
Maximum Efficiency (%)	39.1
Maximum Gain (dBi)	2.37

Thank you

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