



D-Link 530

ARY196-3277-016-00

Only Antenna

5GHz (Peak Gain: 3.17dBi 、
Directional Gain:7.92dBi)

Engineer :Wade

Report date : 2023/04/13



Directional Gain

Directional Gain=

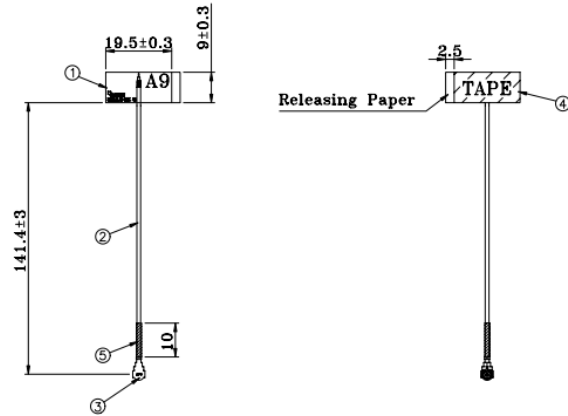
$$10 \log \left[\frac{\left(10^{\frac{G1}{20}} + 10^{\frac{G2}{20}} + \dots + 10^{\frac{Gn}{20}} \right)^2}{N_{ant}} \right] dBi$$

Category	Peak Gain(dBi)	Directional Gain (dBi)
Wi-Fi 5G	A8: 3.2 A9: 3.17 A10: 3.09	7.92

REV	DATE	DESCRIPTION	ECN NO.	NAME
A1	22.11.28	PROPOSAL		LIEF
A2	22.12.26	▲MODIFY CABLE COLOR		LIEF

RoHS Compliant

A
B
C
D
E



CUST NO.:

⑦								
⑥								
⑤	H.S TUBE	COLOR : YELLOW , L : 10mm▲						
④	Tape	G9000 , Size: 8.2 x 18.7mm	1					
③	Connector	MHF I Plug For 1.37mm Cable , Gold Plated	1	DRAWN BY	LIEF(WST)	DRAWING NO.	ARY196-3277-016-00	
②	Cable	1.37mm Low Loss Coaxial Cable , FEP White Jacket ▲	1	CHECKED BY		DRAWING SIZE	A4	
①	PCB	FR-4 , Size: 9 x 19.5 x 0.8mm	1	APPROVED BY		UNIT	mm	
NO.	ITEM	DESCRIPTION	QTY	SORTING NO.	WSC	PAGE	1 OF 1	

WIESON TECHNOLOGIES CO., LTD
PART NO.: ARY196-3277-016-00
TITLE: ANTENNA 9

[ARTICLE:SR-83-32 V7]

A9

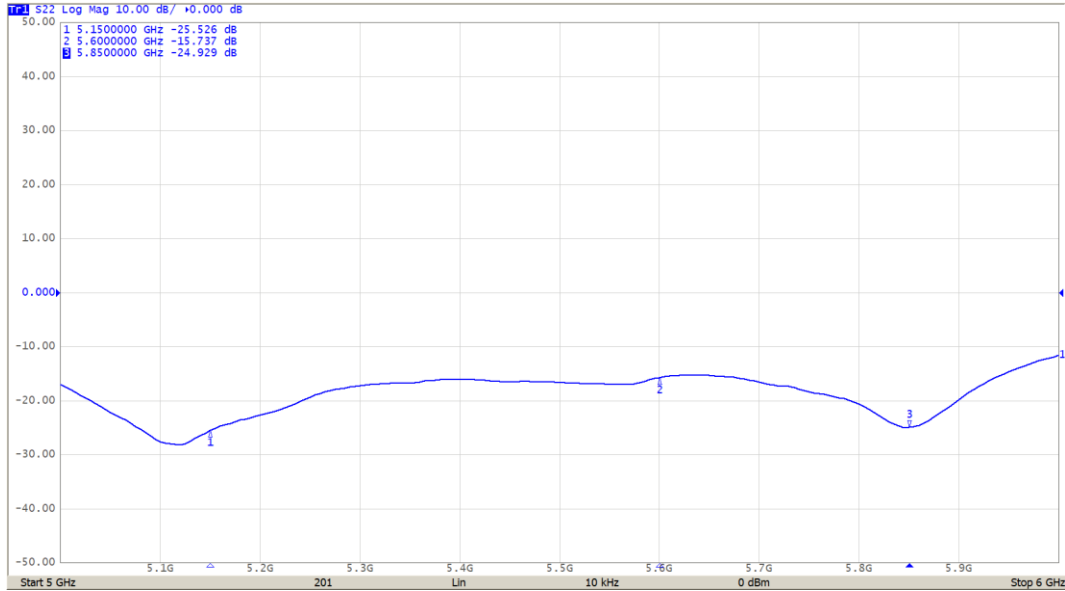
Antenna specification



Item	Specification
Operating Frequency(GHz)	5.15-5.85
Bandwidth	700 MHz (Min.)
Return Loss	10dB (Min.)
Polarization	Linear
Azimuth Bandwidth	Omni-directional
Peak Gain	3.17dBi (Max.)
Impedance	50Ω
Material	PCB
Connector	MHF I
Cable type	O.D. 1.37 L/L
Maximum Power	1W
V.S.W.R	2 : 1
Radiation	Omni directional
Efficiency	61%(Max.)
Operating Temperature	-10~60°C
Storage temp	-10~70°C

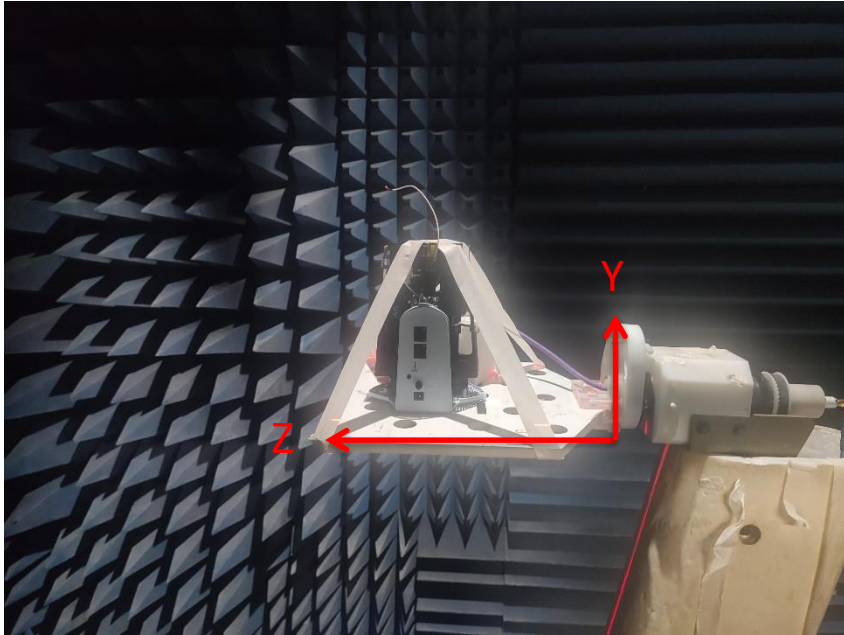
S-Parameter

A9



Freq(MHz)	5150	5600	5850
S11(dB)	-25.5	-15.7	-24.9

chamber measurement photo



A9

3D Gain Total



Freq(GHz)	Peak Gain(dBi)	3D-avg Gain(dBi)	Efficiency(%)
5.15	3.17	-2.13	61
5.25	3	-2.14	61
5.35	1.64	-2.72	53
5.47	2.18	-2.82	52
5.6	3.08	-2.32	59
5.725	1.74	-2.45	57
5.785	1.84	-2.31	59
5.85	1.77	-2.46	57

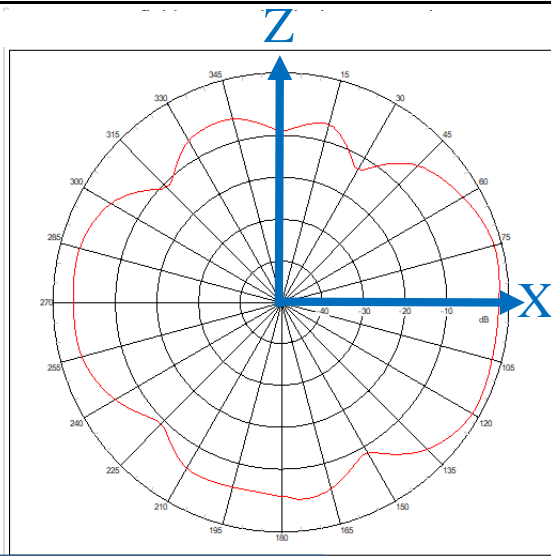
Antenna Pattern

A9

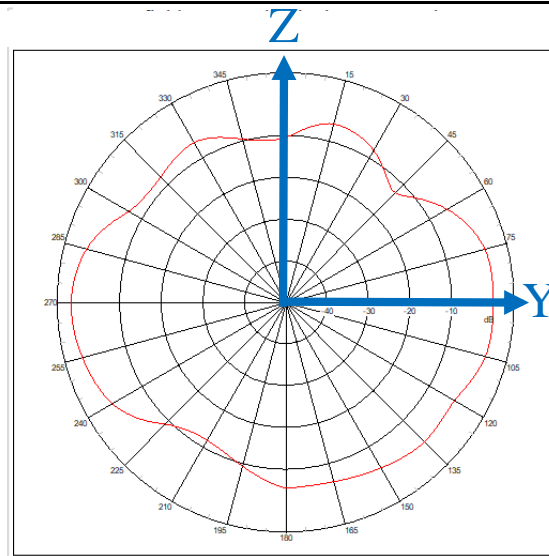
Frequency : 5600MHz

Freq(GHz)	Peak Gain(dBi)	3D-avg Gain(dBi)	Efficiency(%)
5.6	3.08	-2.32	59

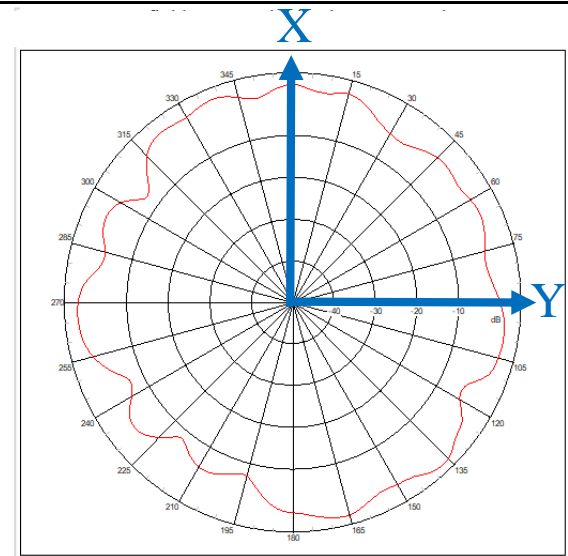
XZ-plane



YZ-plane



XY-plane



Far-field amplitude limits:

Max: 5dB

min: -50dB



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MAKING THE PERFECT CONNECTION

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