



Testo Saviers-868MHz

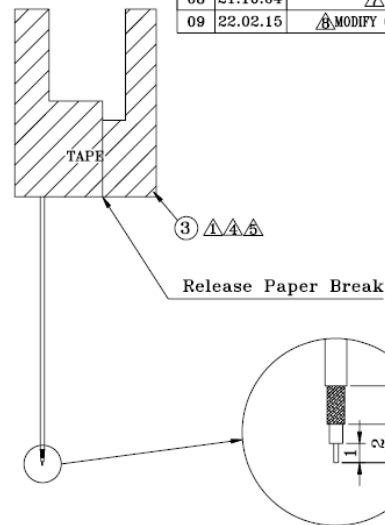
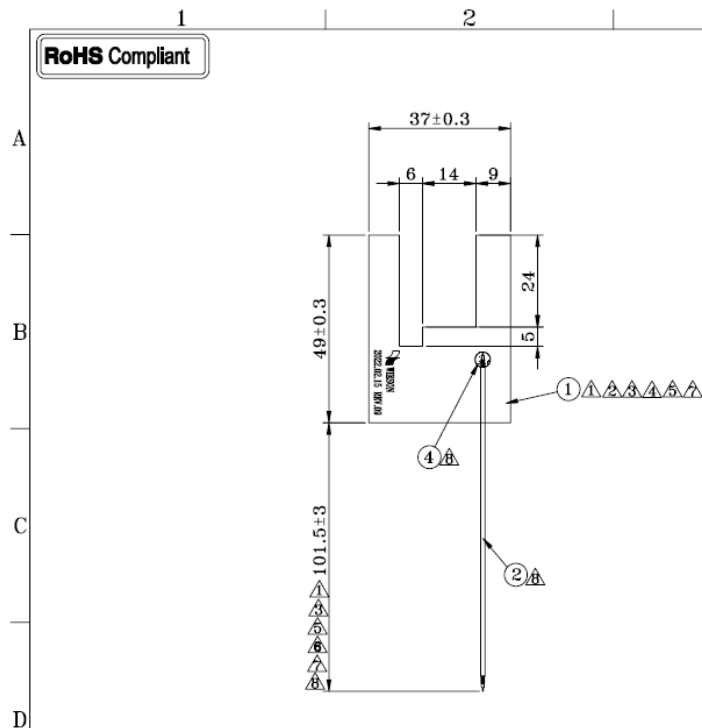
Engineer : Wade

Report date : 2022/02/15 REV 09

WIESON TECHNOLOGIES CO., LTD.

15F, No.237, Sec.1, Tatung Rd., HsiChih Dist., New Taipei City, Taiwan, R.O.C.





REV	DATE	DESCRIPTION	NAME
01	21.06.22	NEW RELEASE	LIEF
02	21.08.26	⚠️ MODIFY FPC & CALBE LENGTH	LIEF
03	21.08.27	⚠️ ADD DIMENSION	LIEF
04	21.08.31	⚠️ MODIFY FPC & TAPE	LIEF
05	21.09.01	⚠️ MODIFY FPC	LIEF
06	21.09.07	⚠️ MODIFY FPC & CABLE LENGTH & TAPE	LIEF
07	21.09.07	⚠️ MODIFY CABLE LENGTH	LIEF
08	21.10.04	⚠️ MODIFY DESIGN	LIEF
09	22.02.15	⚠️ MODIFY CABLE & ADD UV RESIN	LIEF

⑦				WIESON TECHNOLOGIES CO., LTD	PART NO.:	
⑥				WIESON	ARY197-0361-001-00	
⑤				TITLE:		
E ④	Glue	UV Resin 	1	Antenna		
③	Tape	3M467MP , Size:49 x 37mm     	1	DRAWN BY	LIEF(WST)	DRAWING NO. WSTSXXXXXX
②	Cable	0.81mm Normal Coaxial Cable , FEP White Jacket  	1	CHECKED BY		DRAWING SIZE A4
①	FPC	FPC , Double-Side White Solder Mask , Size: 49 x 37mm     	1	APPROVED BY		UNIT mm
NO.	ITEM	DESCRIPTION	QTY	SORTING NO.	WSC	PAGE 1 OF 1

Revision History

Revision	Date	Engineer	Description
01	2021/06/18	Eason	New Release
02	2021/06/23	Eason	Update
03	2021/07/29	George Hung	Placement change and antenna pattern modify .
04	2021/08/17	George Hung	Mechanization change,antenna pattern modify .
05	2021/08/25	George Hung	Antenna pattern modify .
06	2021/08/31	George Hung	Antenna pattern modify .
07	2021/09/02	George Hung	Feed point placement change,antenna pattern modify .
08	2021/11/05	Wade	UP DATA
09	2022/02/15	Wade	Update Revision

Antenna specification

Item	Specification
Operating Frequency(MHz)	868-925
Bandwidth	57 MHz (Min.)
Return Loss	-2.5 dB (Max)
Polarization	Linear
Azimuth Bandwidth	Omni-directional
Peak Gain	-1.13 dBi (Max)
Impedance	50Ω
Material	FPC
Maximum Power	1W
V.S.W.R	6.7 : 1
Radiation	Omni directional
Efficiency (Exclude cable loss)	>11%
Connector	MHF
Cable type	OD:1.13
Operating Temperature	-10~60°C
Storage temp	-10~70°C

Antenna photo

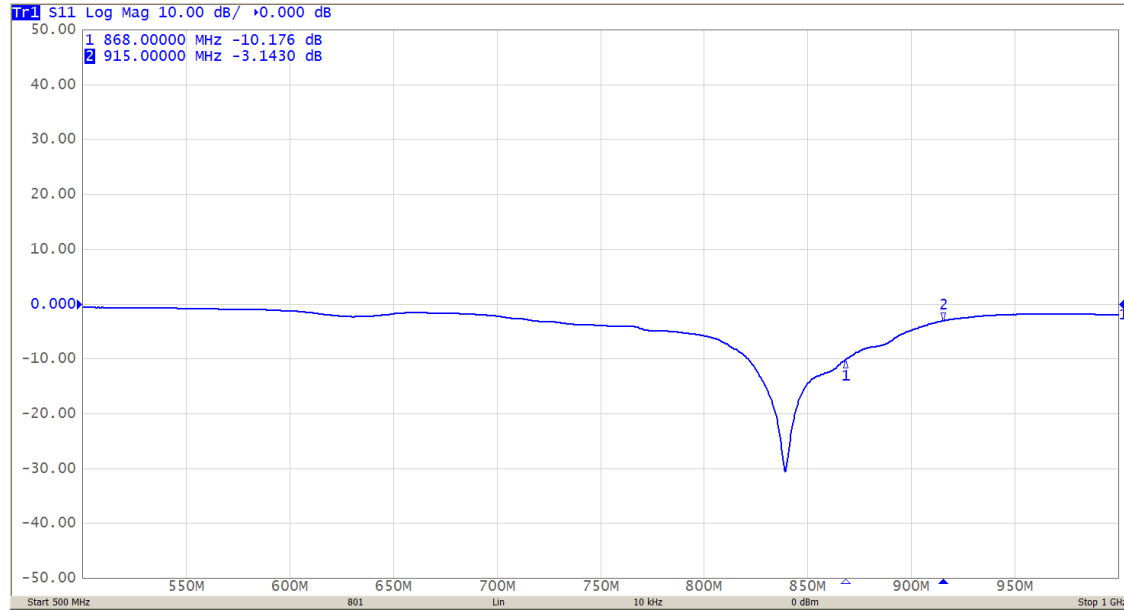


Antenna photo



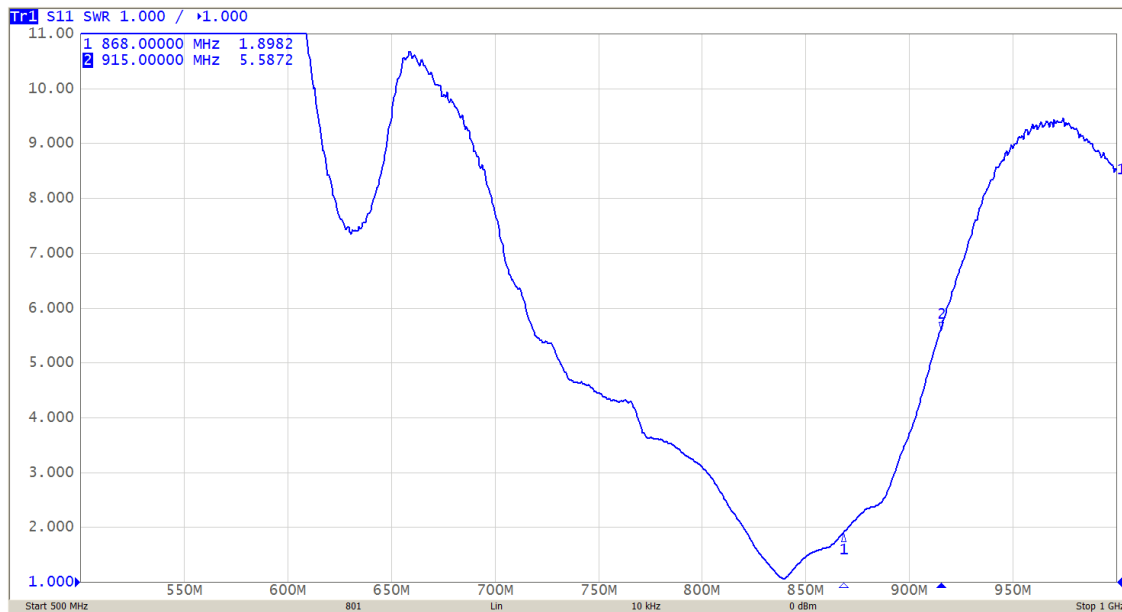
Antenna Measurement Vector Network Analyzer

Return Loss



Freq(MHz)	868	915
dB	-10.1	-3.1

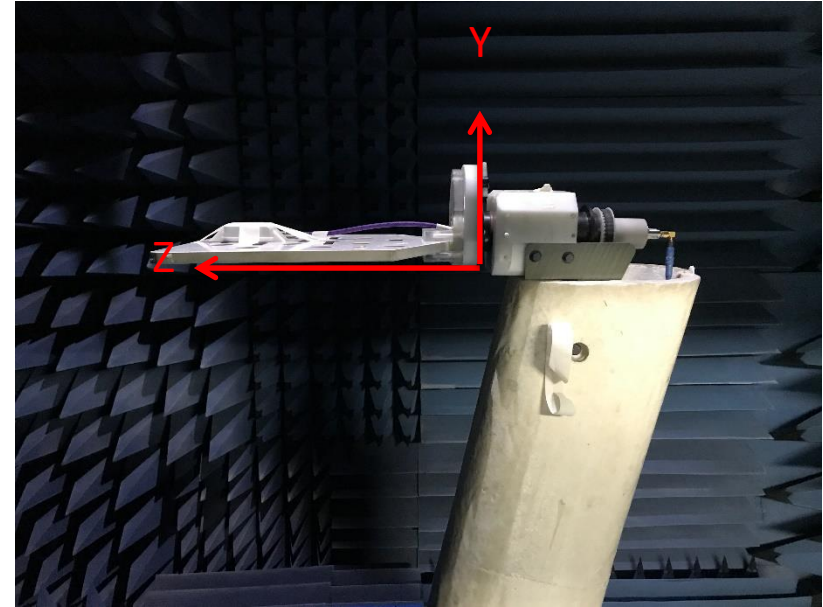
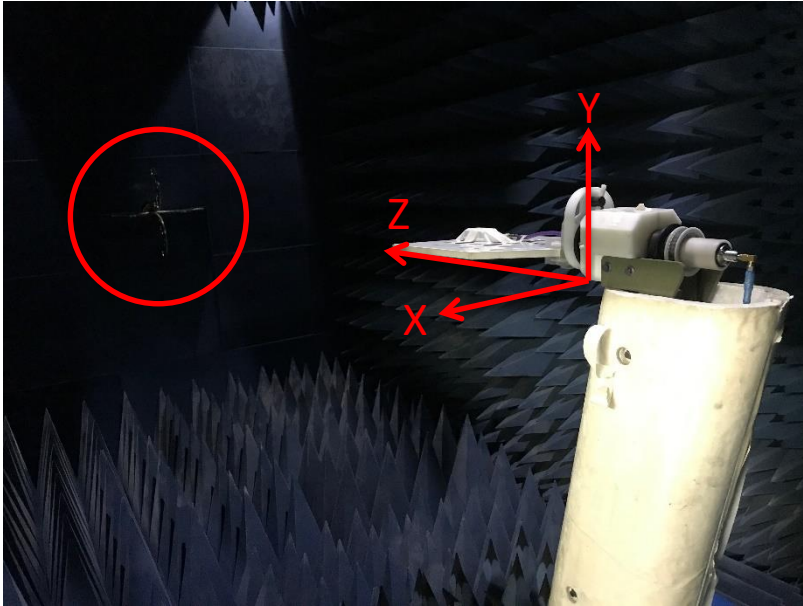
V.S.W.R



Freq(MHz)	868	915
	1.8	5.5

The antenna anechoic chamber measurement

Chamber measurement photo



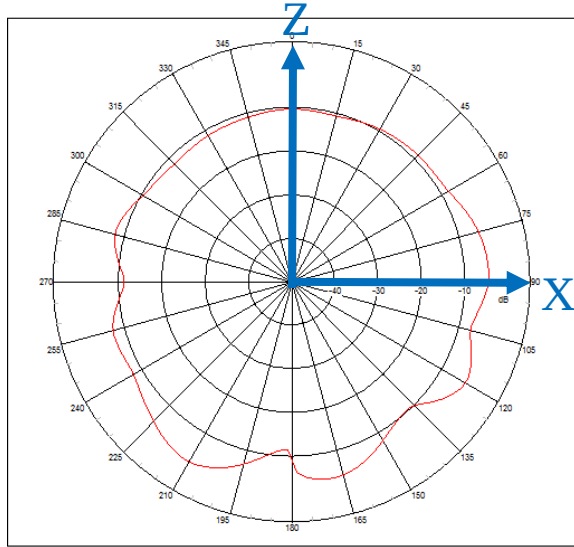
3D Gain Total

Freq(GHz)	Peak Gain(dBi)	3D-avg Gain(dBi)	Efficiency(%)
0.828	-2.43	-5.53	28
0.838	-2.25	-5.69	27
0.848	-1.56	-5.28	30
0.858	-1.43	-5.33	29
0.868	-1.13	-5.16	30
0.878	-1.72	-5.77	26
0.905	-4.91	-8.59	14
0.915	-5.4	-8.91	13
0.925	-6.11	-9.73	11

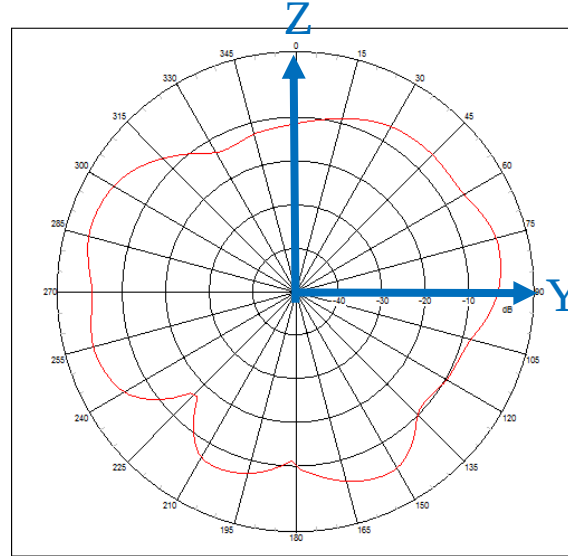
2D Patten

Frequency : 868MHz

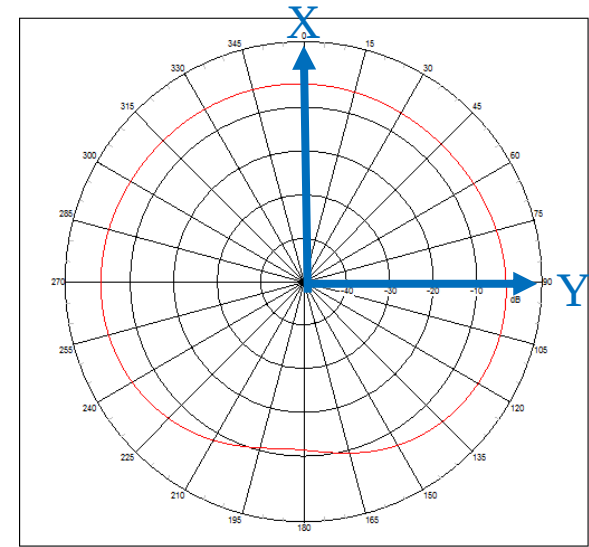
ZX-plane



YZ-plane



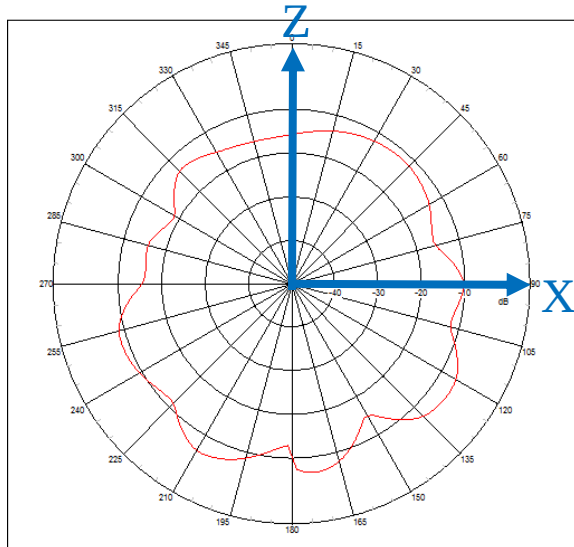
XY-plane



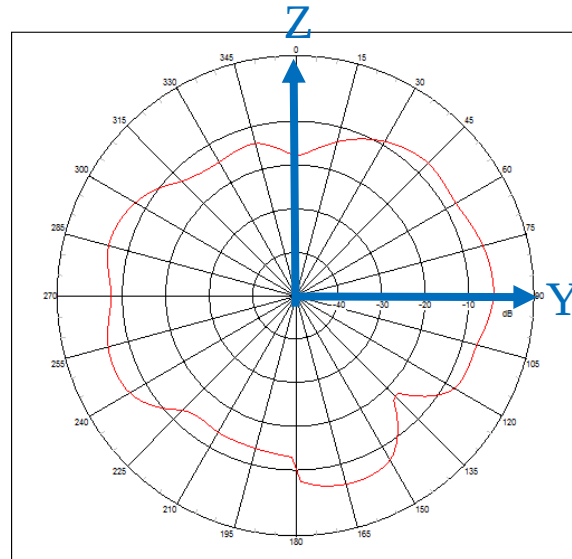
2D Patten

Frequency : 915MHz

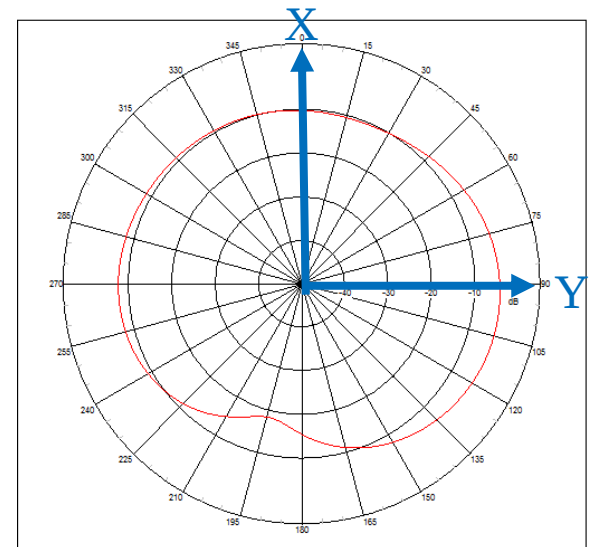
ZX-plane



YZ-plane



XY-plane





創造完美連結

MAKING THE PERFECT CONNECTION

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