

ANTENNA TEST REPORT

Applicant	Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Address	5F, No. 40, Guanri Road, Software Park Stage II, Xiamen
Supplier	ALPS ALPINE Co., Ltd.
Address	1-7 Yukigayaotsukamachi, Ota-ku, Tokyo 145-8501
Product	PCB antenna
Product No.	039522401_ANT
Model	AIVI_H61P
Avg. Gain	WiFi Antenna: -0.38dBi/2.4GHz
	BT Antenna: 0.00dBi/2.4GHz
Date of test	2019/11/21

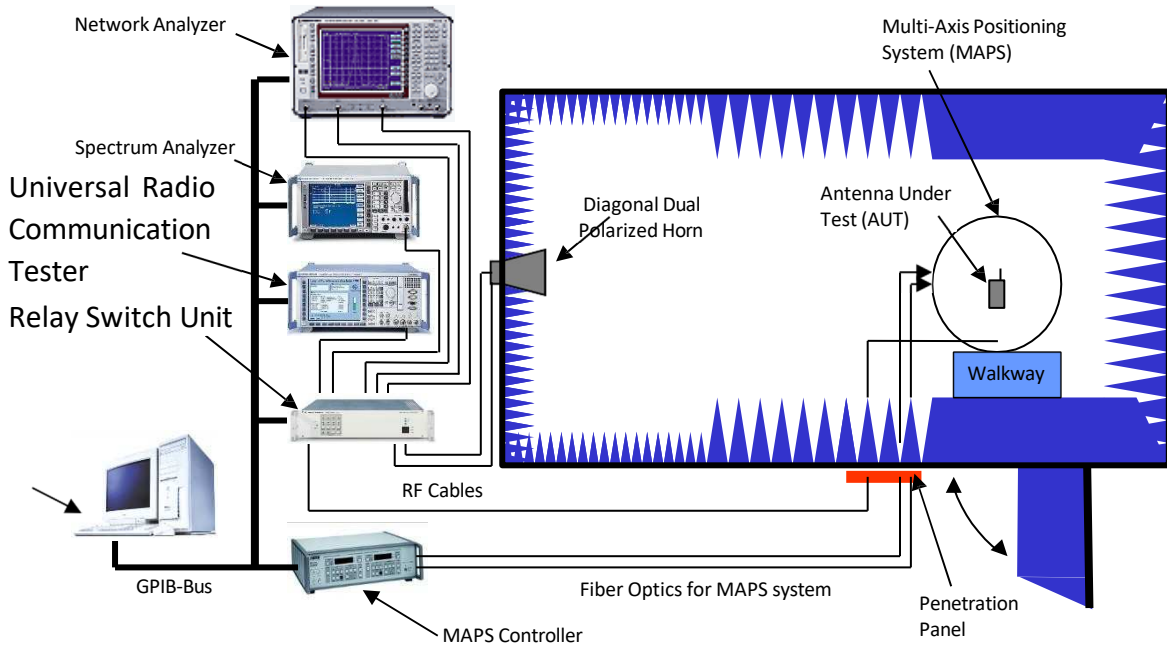
Approval	Written	Reviewed	Approved
	Wei kunlong	zhang zhen min	Guo Anhui
Date	2019/11/21	2019/11/21	2019.11.21

ANTENNA TEST REPORT

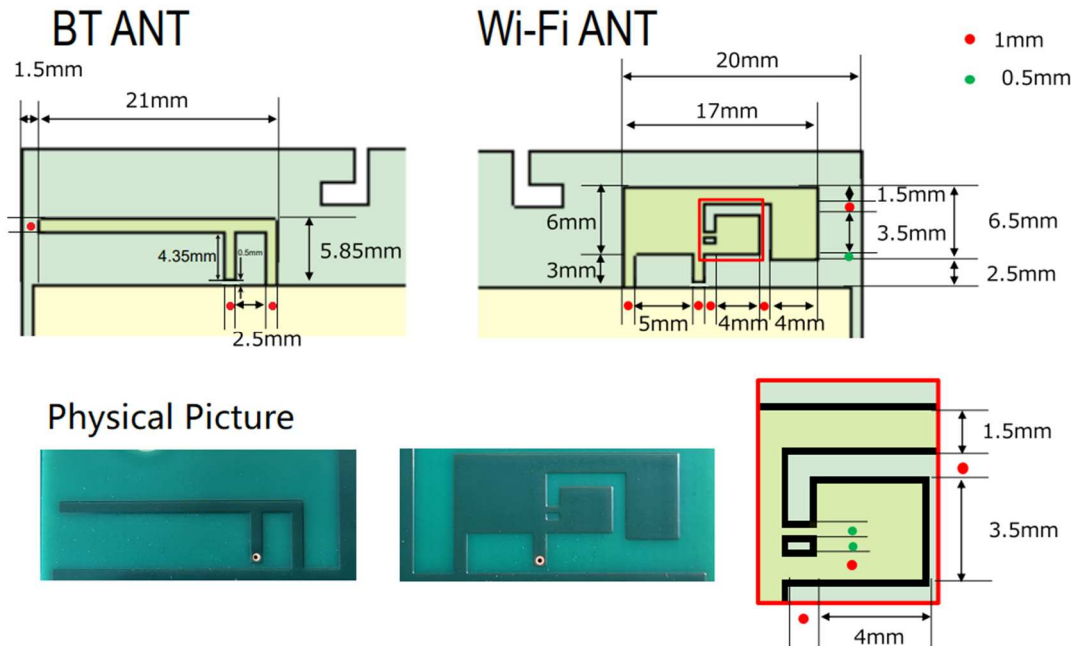
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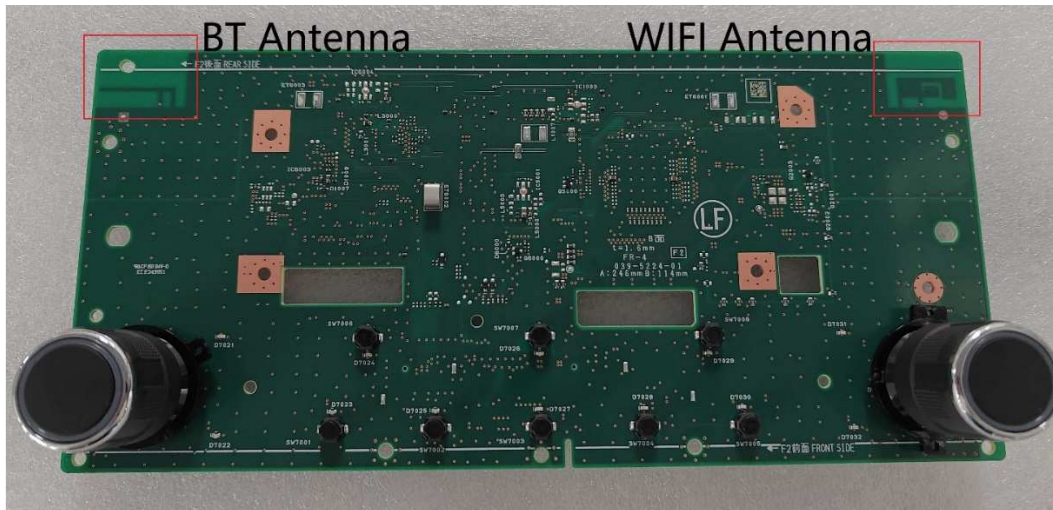
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1. MEASUREMENTS SETUP



2. SIZE OF THE ANTENNA





3. TEST INSTRUMENTS

Equipment	Manufacturer	Model No.
Signal Generator	Agilent	E5071C
Spectrum Analyzer	Agilent	N5230C
Broad-Band Horn Antenna	ETS-LINDGREN	Model 3102
Broad-Band Horn Antenna	ETS-LINDGREN	Model 3164-03
Turn Table	ETS-LINDGREN	Model 2090
Controller	ROHDE&SCHWARZ	TS-RSP

4. TEST RESULTS

4.1 WIFI Antenna VSWR

Frequency (MHz)	2402	2442	2480
VSWR	1.2	1.2	1.4

4.2 BT Antenna VSWR

Frequency (MHz)	2402	2442	2480
VSWR	1.78	1.81	1.65

4.3 WIFI Total Avg. Gain

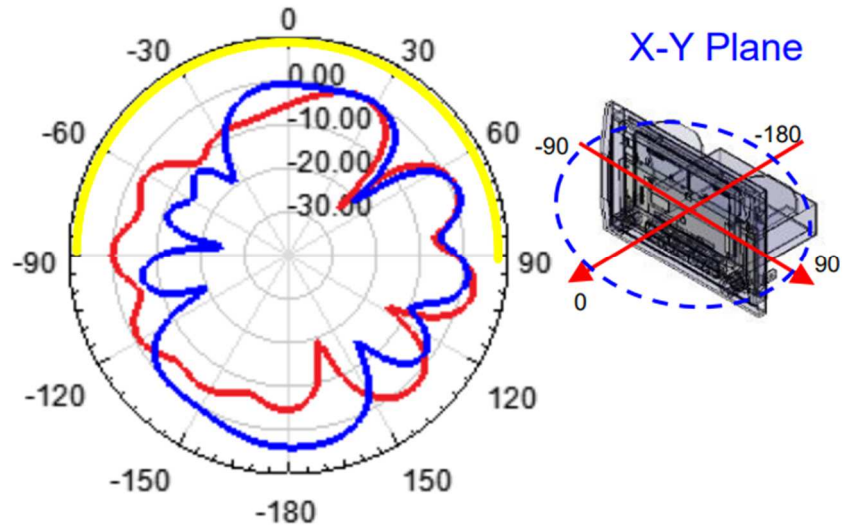
Frequency (MHz)	2442
Total Avg. Gain (dBi)	-0.38

4.4 BT Total Avg. Gain

Frequency (MHz)	2442
Total Avg. Gain (dBi)	0.00

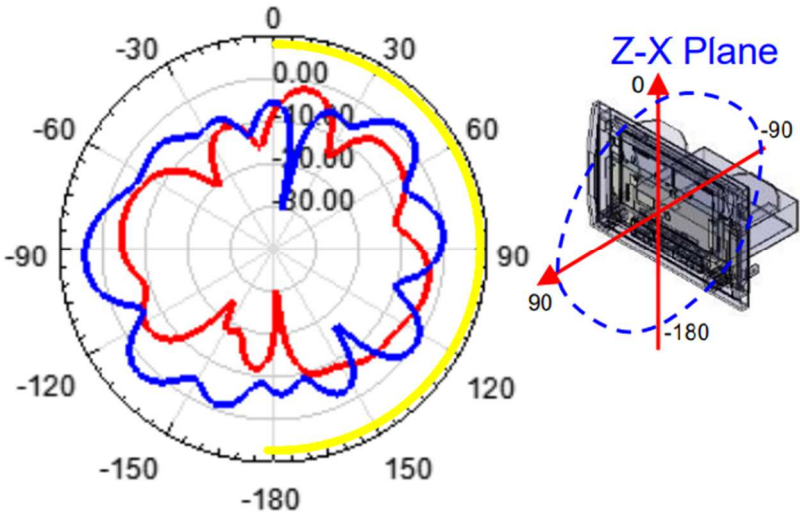
4.5 WIFI Antenna 2D at 2.4GHz Band (X-Y Plane)

Frequency (MHz)	X-Y Plane	Gain Phi	Gain Theta
WIFI 2442	Avg. Gain (dBi)	-2.04	-1.85



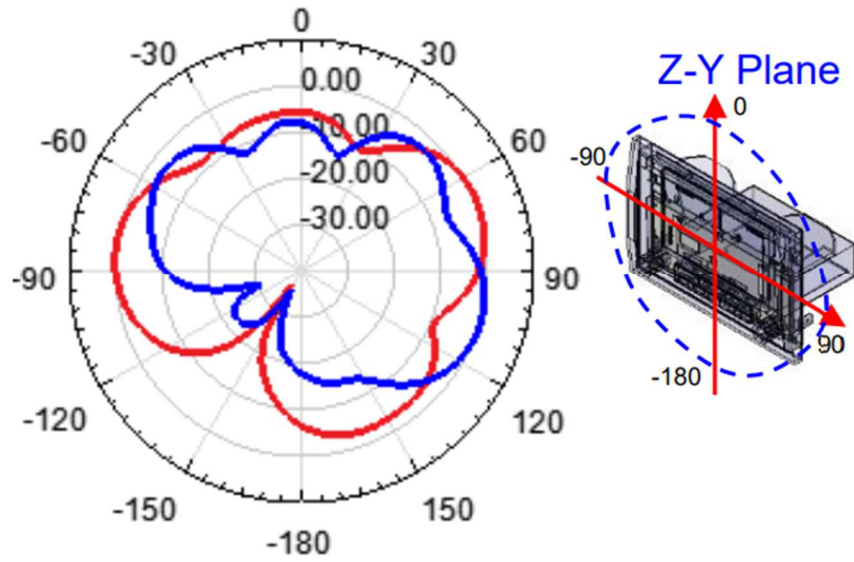
4.6 WIFI Antenna 2D at 2.4GHz Band (Z-X Plane)

Frequency (MHz)	Z-X Plane	Gain Phi	Gain Theta
WIFI 2442	Avg. Gain (dBi)	-5.90	-2.72



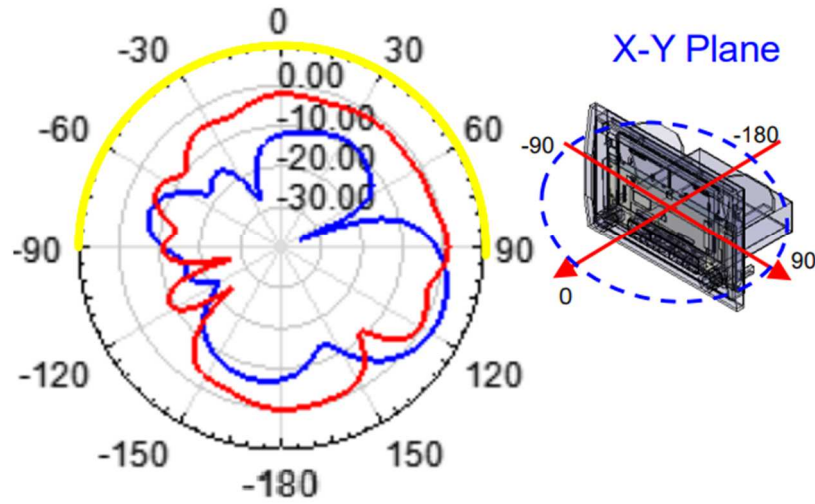
4.7 WIFI Antenna 2D at 2.4GHz Band (Z-Y Plane)

Frequency (MHz)	Z-Y Plane	Gain Phi	Gain Theta
WIFI 2442	Avg. Gain (dBi)	-3.98	-5.54



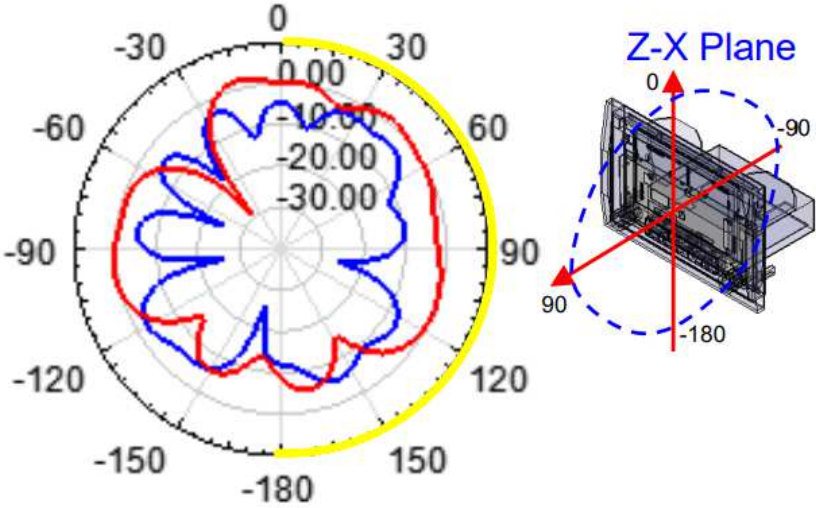
4.8 BT Antenna 2D at 2.4GHz Band (X-Y Plane)

Frequency (MHz)	X-Y Plane	Gain Phi	Gain Theta
WIFI 2442	Avg. Gain (dBi)	-2.87	-5.58



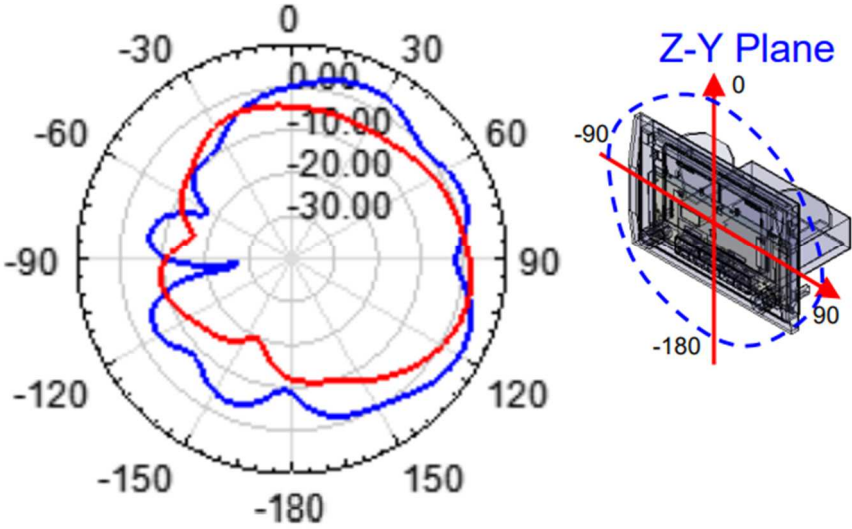
4.9 BT Antenna 2D at 2.4GHz Band (Z-X Plane)

Frequency (MHz)	Z-X Plane	Gain Phi	Gain Theta
WIFI 2442	Avg. Gain (dBi)	-2.11	-7.05



4.10 BT Antenna 2D at 2.4GHz Band (Z-Y Plane)

Frequency (MHz)	Z-Y Plane	Gain Phi	Gain Theta
WIFI 2442	Avg. Gain (dBi)	-4.12	-0.49



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

