



Wistron NeWeb Corp.

# APPROVAL SHEET

Customer Name: **Wistron Corp.**

Date: **05/03/21**

Doc. Version:

Customer P/N	
WNC P/N	<b>81XKAG15.G20</b>
Version	

Provided By Wistron NeWeb Corp	Reviewed By Wistron NeWeb Corp	Approved By Customer
<b>Vincent Tseng</b>		

Wistron NeWeb Corporation  
No. 20, Park Avenue II,  
Hsinchu Science Park  
Hsinchu 308, Taiwan, R.O.C.  
TEL: +886-3-666-7799  
FAX: +886-3-666-7711  
<http://www.wneweb.com>

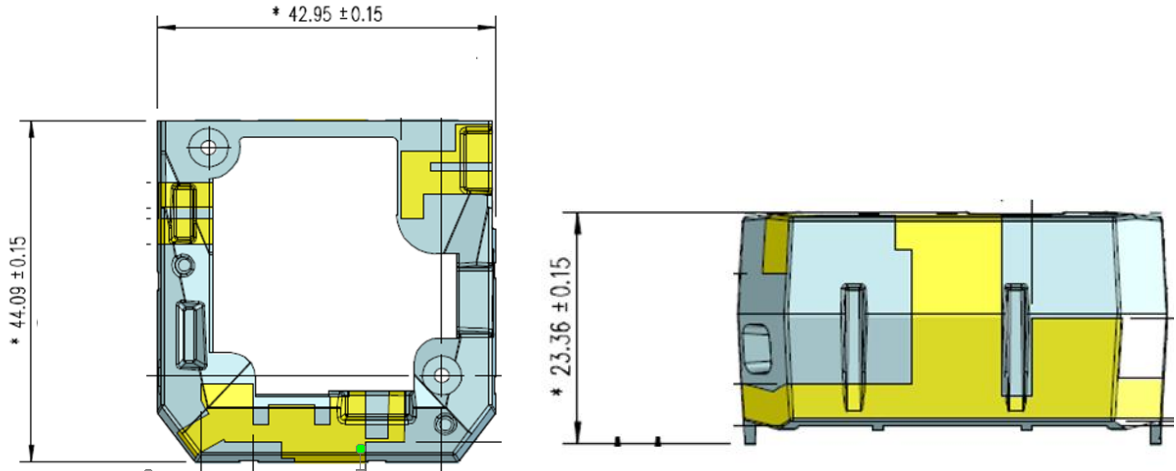
啟碁科技股份有限公司  
新竹市 308 科學園區園區二路 20 號  
電話：(03) 666-7799  
傳真：(03) 666-7711

# Index

---

<b>1. Antenna Description.....</b>	<b>2</b>
<b>2. Operation Frequency.....</b>	<b>2</b>
<b>3. Performance Test .....</b>	<b>3</b>

# 1. Antenna Description



# 2. Operation Frequency

Main: 698MHz~2170MHz

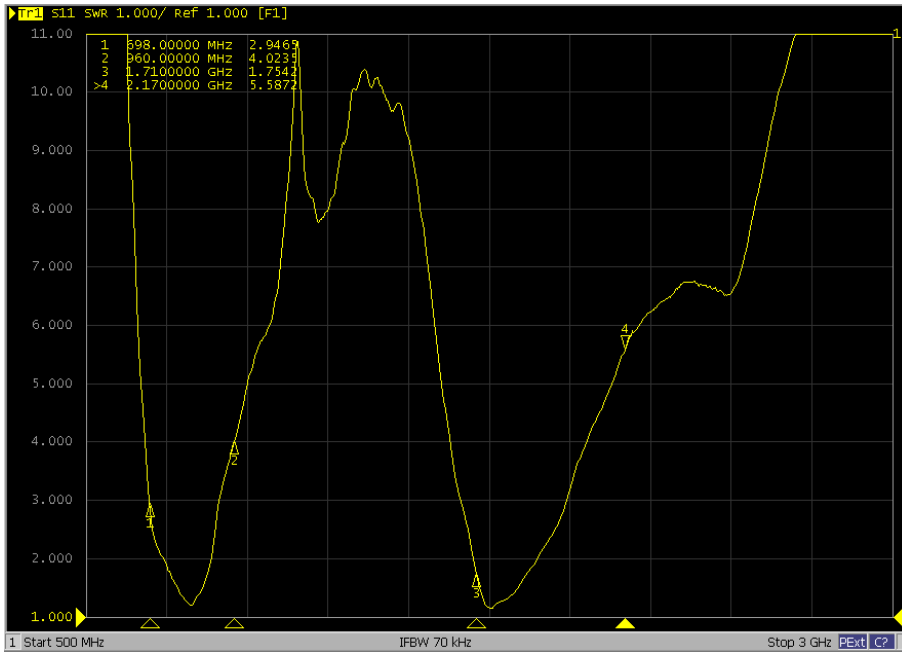
GPS: 1575MHz

BT: 2402MHz~2500MHz

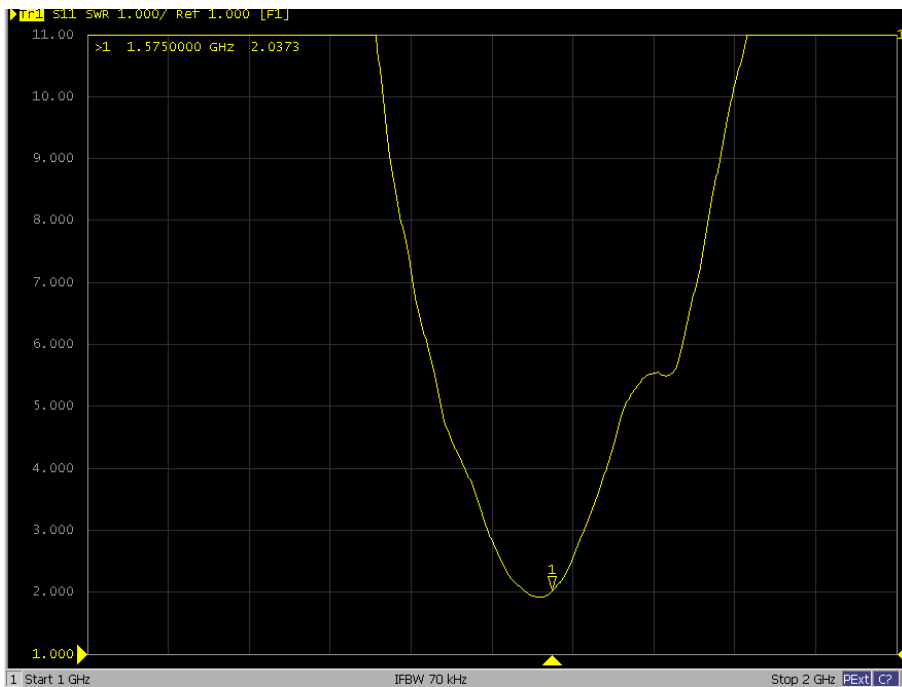
### 3. Performance Test

#### 3.1 VSWR measurement

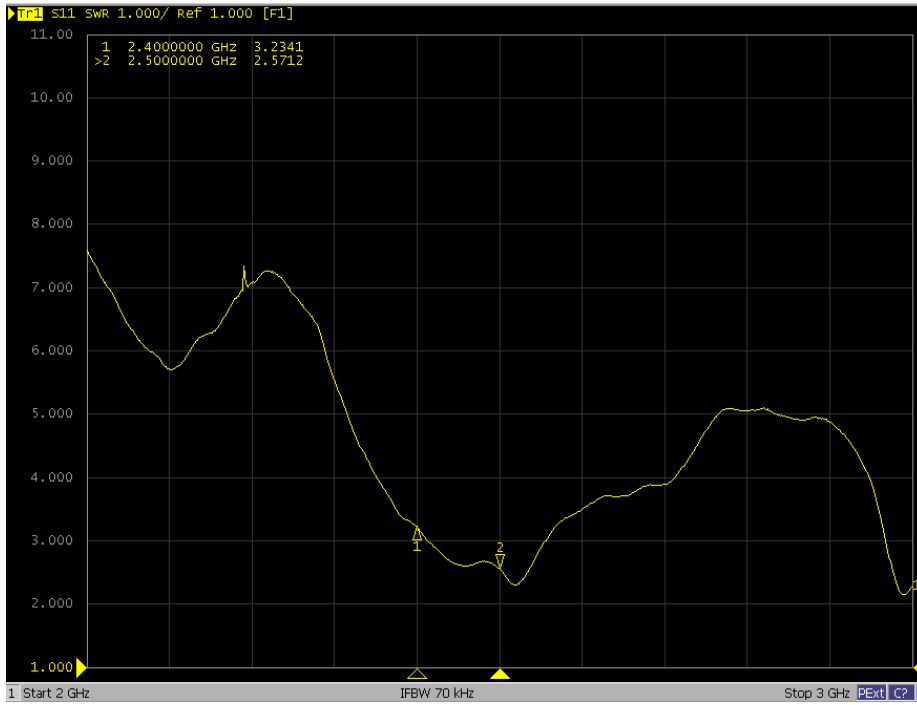
Main:



GPS:

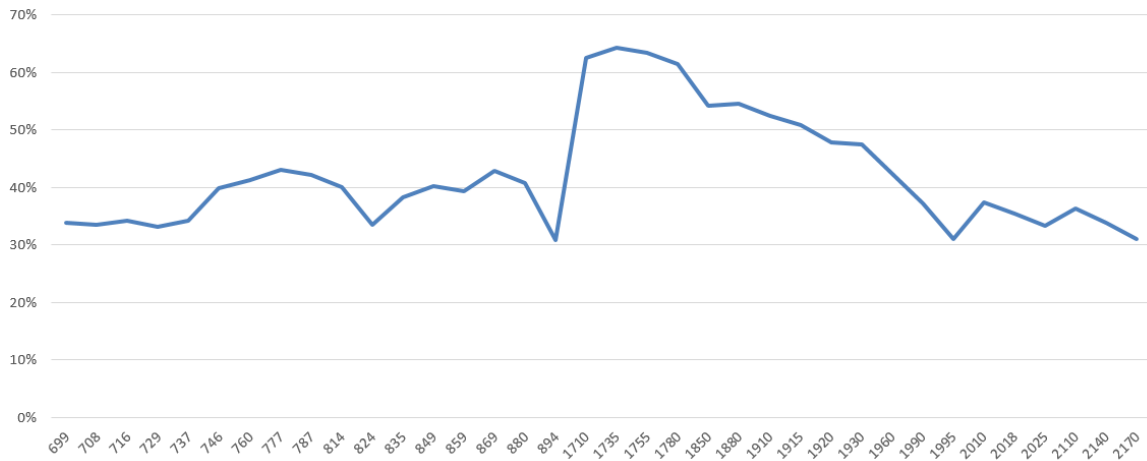


BT:



### 3.2 Antenna Efficiency

Main:

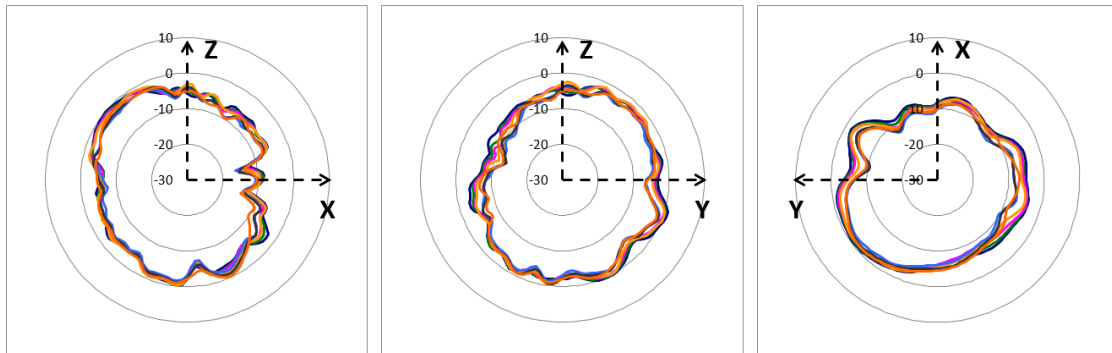
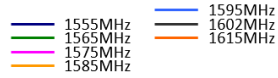


698~960MHz > 30%, 1710~1960MHz >45%, 1960~2170MHz>30%

## GPS:

Frequency(MHz)	GPS						
	1555	1565	1575	1585	1595	1602	1615
Efficiency	41.5%	42.8%	45.7%	43.3%	32.3%	35.5%	37.1%
Avg Gain(dB)	-3.82	-3.69	-3.40	-3.63	-4.91	-4.50	-4.31
Peak Gain(dB)	0.94	1.22	1.65	1.14	-0.40	0.01	0.27

### GPS Radiation Pattern



## BT:

Frequency	Bluetooth							
	2412	2422	2437	2442	2450	2452	2462	2484
Efficiency	30.8%	33.9%	30.6%	32.3%	35.3%	35.9%	32.5%	32.3%
Avg Gain(dB)	-5.26	-4.69	-5.14	-4.91	-4.52	-4.45	-4.88	-4.91
Peak Gain(dB)	-0.66	0.17	-0.21	-0.02	0.36	0.39	0.00	-0.12

BT

— 2442MHz

### Radiation Pattern

