

A letter of recognition

DESCRIBE: Anker Innovations Co., LTD (T8140R)

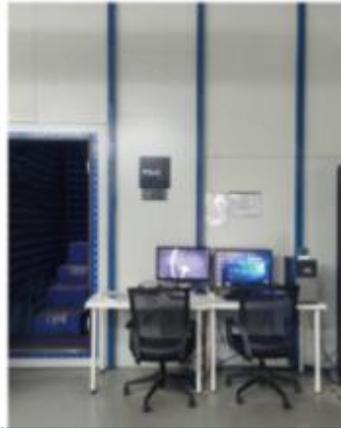
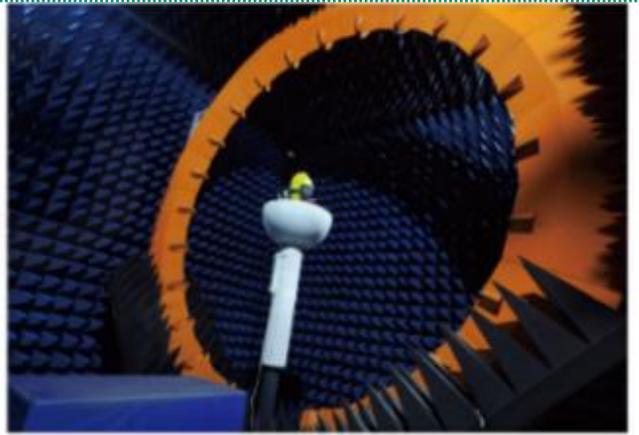
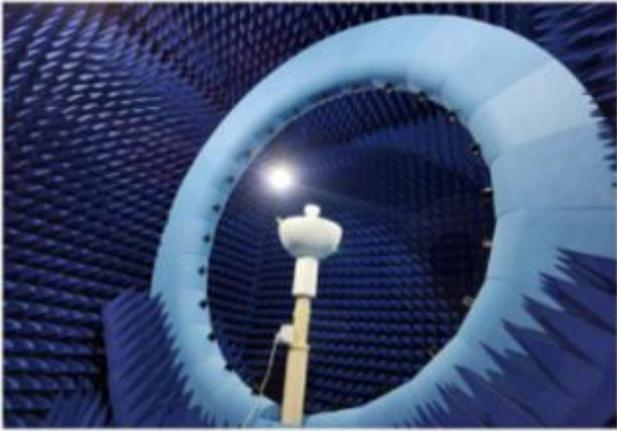
Customer NO: 400102930

PART NO: ATC1356-HY048B04RA

Antenna type: 2.4G FPC ANT

DATE: 2022.12.16

PROVIDER: AT&C TECHNOLOGIES(SHENZHEN) CO. LTD



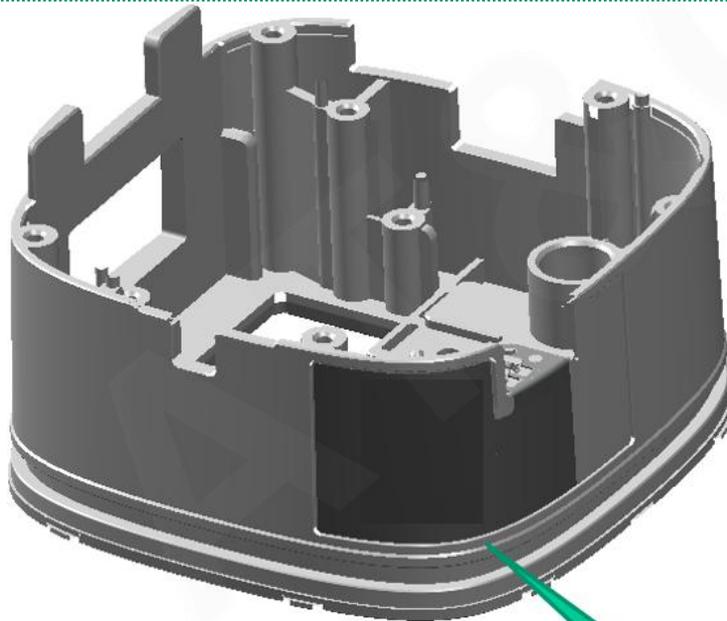
We have RF equipments as below

Anechoic Chambe

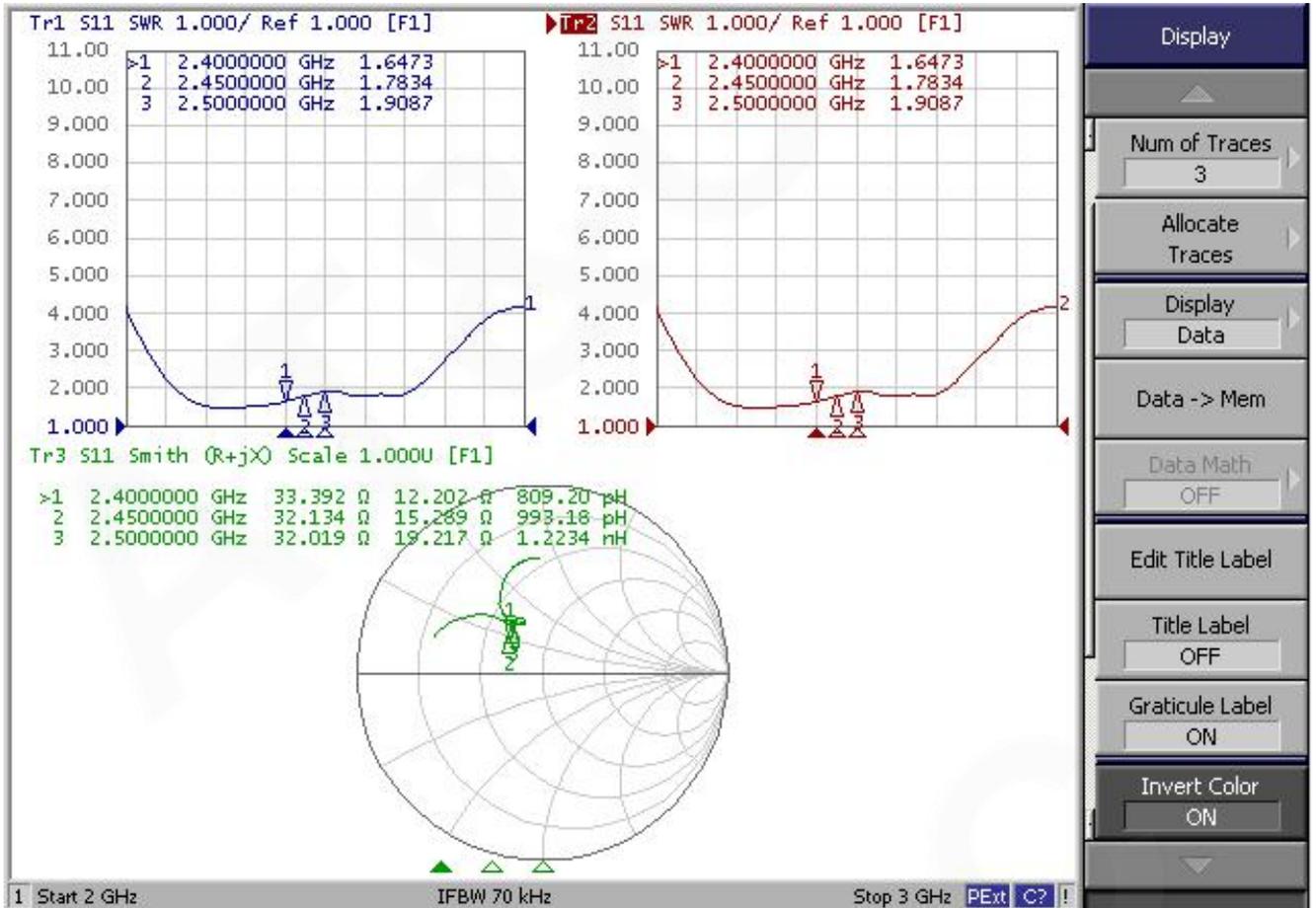
- Satimo 1ea
- SY24 1ea
- SAR 1ea
- KSS 2ea

Measurement

- 2G, 3G, 4G
- GPS
- Wifi
- Bluetooth(3.0) OTA
- NFC & WPC



WiFi Ant



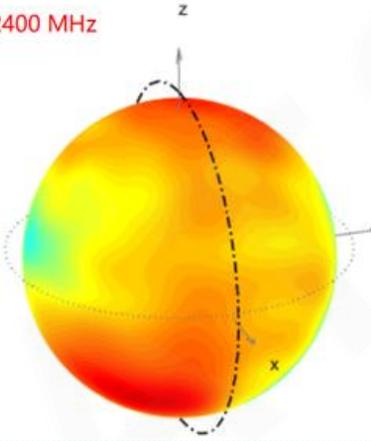
Antenna *Efficiency

Frequency	Efficiency	dBi
2400	66%	2.97
2410	67%	2.67
2420	68%	2.79
2430	67%	2.83
2440	69%	2.86
2450	69%	2.78
2460	66%	2.81
2470	64%	2.71
2480	66%	2.80
2490	65%	2.79
2500	61%	2.62

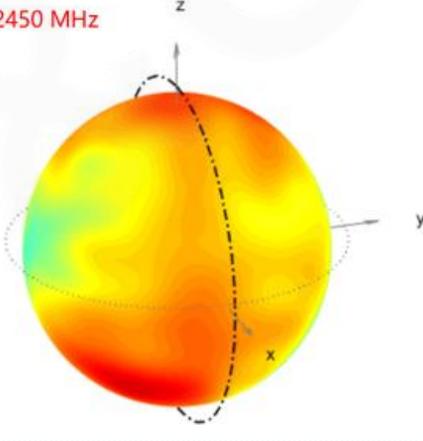
Channels	TRP	TIS
2.412 GHz	19.61	-83.46
2.437 GHz	19.63	-83.25
2.462 GHz	19.43	-83.45

Antenna 3D

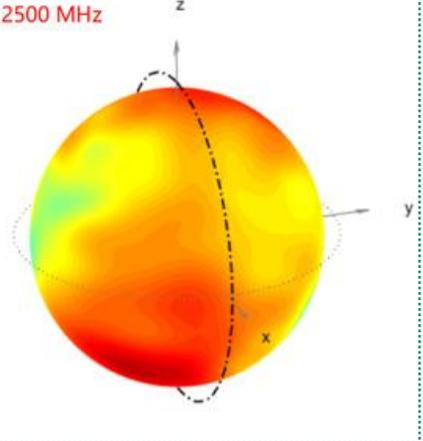
2400 MHz



2450 MHz



2500 MHz



1	2	3	4	5	6	7	8	9	10	11	12	13													
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>REV. NO.</th> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION OF CHANGE</th> <th>DRAWN</th> <th>CHECKED</th> <th>APPROVED</th> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>						REV. NO.	REV.	DATE	DESCRIPTION OF CHANGE	DRAWN	CHECKED	APPROVED	1												
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1																									

<NOTE>

- General Tolerance: +0.15 FPC Antenna
- Product Surface: Antenna Surface Black matte ink surface silk printing as shown in the figure position, PE bag packaging shipment
- 3M9471 LSE for antenna backing glue. Material material: PI, substrate thickness T = 1/2mil, electrolyticcopper foil thickness 0.50z
- Coarsening () labeling is managed according to key dimensions
- Measure the size after removing the attachment plane of the stripping paper.
- Gold plating Type and Spec, thickness: electrolytic method / AU (gold plating 0.025-0.060 Nickel thickness is 2-8UM)
- Front, back, no bubbles or foreign bodies in appearance. Salt fog 48H OK
- Raw materials should meet ROHS requirements

X	±0.5	 3rd ANGLE PROJECTION <small>© COPYRIGHT, AT&C, 2009. 04. 05</small> <small>THIS DRAWING IS UNLAWFUL FOR REPRODUCTION</small>	AT&C Co., LTD. (Shenzhen)	
.X	±0.25			
.XX	±0.10			
.XXX	±0.05			
CHECKED BY		SIZE	SI A4	
DRAWN BY	LUF	UNITS	MM	
APPROVED BY	JACK	SCALE	1:1	
		PART NAME	T3140R-FPC-黑色	
		MODEL NAME	wifi-ant	
		DRAWING NUMBER	ATC1356-HYO48BD4RA	
		DRAWING DATE	2022.12.15	
		REV	A	

ATNC-S-01-A4

A4(297X210)

Size information					Measuring sample			% Tolerance		Handling opinions			Measuring tool
number	Dimension property	Dimension	Lower tolerance	Upper tolerance	1	2	3	Upper	Lower	determine	Supplier review comments	Customer review comments	
1	key point	25.9	-0.20	0.20	25.91	25.87	25.89			PASS			PJ
2	key point	17.7	-0.20	0.20	17.66	17.65	17.69			PASS			PJ
3	key point	1.1	-0.05	0.05	8.18	8.20	8.18			PASS			PJ

Salt spray test report

Item name	FPC ANT	Item type	ATC-1356	models	T8140R
The experimental class	Salt spray test	Number of items	5 pcs	The researchers	Zhangxuemei
The experiment	Sample reliability verification				
Experimental conditions	<p>Brine concentration for 5 plus or minus 1%, salt water barrels and the temperature of the laboratory to 35 + 2 °C, saturated air barrel temperature to 47 + 2 °C, PH: 6.5-7.5 KGF/cm2, spray quantity: 1-2 ml / 1 hr / 80 cm2, test time 48 h.</p> <p>Specific reference GBT 10125-1997 standard</p>				
Note:					
The experiment on	《Inspection standard for plated parts》				
The equipment used:	Salt spray test chamber				
The experiment					
After the experiment					
The experimental conclusion:	After the test, clean water was rinsed and the surface of the shrapnel was not oxidized, discolored or blackened for 2H;				
Tester/date: ren kangyong 2022-12-14			Audit: Pengguangliang		

Packaging method

PE bag packaging, product emission neat, uniform quantity



Picture: Outer box "I" seal, QC PASS seal on the left side of the outer box, sealed without exposure.



PART LIST

The packing drawing is schematic diagram, which does not mean that the picture is the actual product and the actual shipment is the standard.

NO	DESCRIPTION	Q'TY	MATERIAL	REMARKS	REV.
1	ANTENNA	1/1000		N/A	A
2	PAD OUT	1/4	SW A골 5T	N/A	A
4	CARTOON BOX	-	SW A골 5T	N/A	A
5	PACKING TAPE	-	PP	N/A	A