# **Antenna Reports**

Issue date :08/23/2024

Test Engineer : Guanwei

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# **General information**

Antenna number	Three in one: T553-14LB-045
Model name	WM101010s
Antenna Type	PIFA
Manufacturer	SHENZHEN Xingyuanchuang TECHNOLOGY CO.,LTD
Manufacturer Address	1506, Tangwei Stock Business Building, Tangwei Community, Fuhai
	Street, Bao'an District, Shenzhen City, Guangdong Province
Dimension	

# Test environment

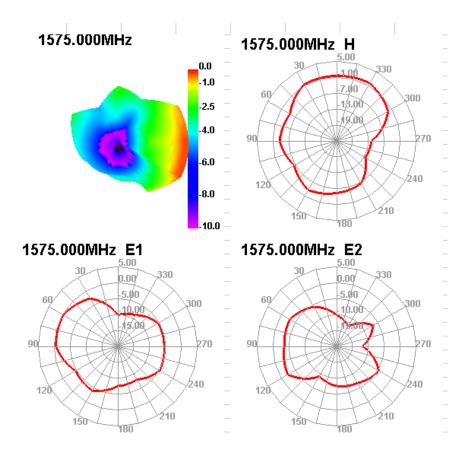
Test lab	SHENZHEN Xingyuanchuang TECHNOLOGY CO.,LTD				
Lab address	1506, Tangwei Stock Business Building, Tangwei Community,				
	Fuhai Street, Bao'an District, Shenzhen City, Guangdong				
	Province				
Test environment (chamber)	OTA Laboratory				
Test the equipment and	8753E Network Analyzer \ June 15, 2023				
calibration date					
Test the software	OuTuo				

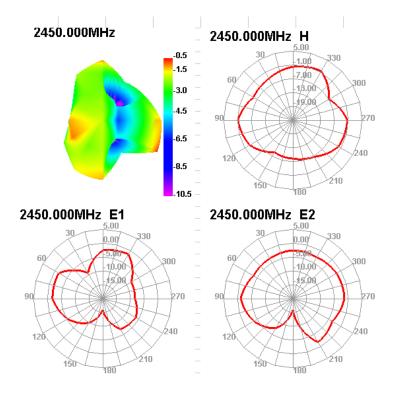
# Test result

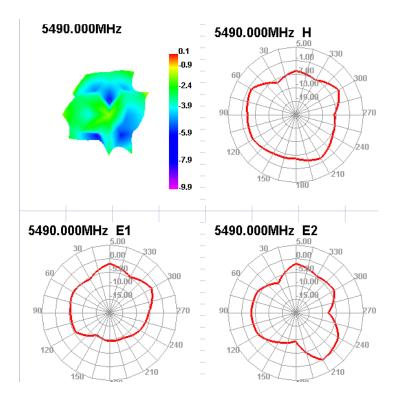
#### ANT 1

Frequency Bands	Frequency [MHz]	Peak Gain	Polarization
GPS	1575	-0.01	
WIFI2.4G/BT	2400-2500	-0.45	
WIFI5G	5150-5850	1.78	
	5250-5350	0.7	
	5470-5725	0.07	
	5725-5850	0.68	

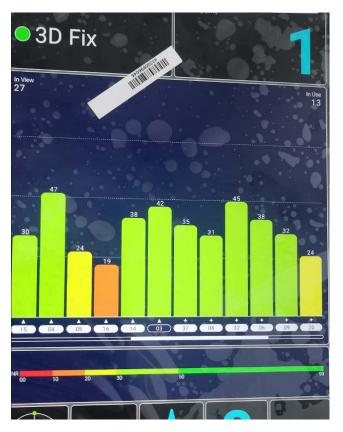
Note: Antenna gain was measured in the anechoic chamber, 3D scan was exercised, and the highest numbers are reported in this document.







# **GPS star search test**



## WIFI Antenna test



### WIFI RVR test

ТΧ

RX

WiFi	i RvR 测	试报表	ŧ(2G_a	_20M_	CH1)	WiFi	RvR 测	<b> </b> 试报表	(2G_ac	_20M_	CH1)
角度\衰减	OdB	10dB	20dB	30dB	40dB	角度\衰减	OdB	10dB	20dB	30dB	40dB
							77.5	76.4	74.9	74.8	72.9
0.0	76.1	75.9	76	76	75.4	0.0°		17	74.8	75.2	72.8
90.0°	76	75.9	76	76	75.6	90.0°	78.1	77.6			74.3
180.0°	76	75.9	76	76.1	75.8	180.0°	77.2	75.4	78.7	73.4	/4.5
	2.7						76.9	75.9	77.2	74.2	74.6
270.0°	76	75.9	76	75.9	75.9	270.0°		Carlotte Carlotte	76.40	74,40	73.70
平均	76.00	75.90	76.00	76.00	75.70	平均	77.40	76.30			0.90
方差	0.00	0.00	0.00	0.10	0.20	; 方差	0.50	0.90	1.90	0.80	0.00

ТΧ

WiFi	RvR 测	试报表	(5G_ac_	80M_C	H36)
角度\衰减	0d8	10dB	20dB	30dB	40dB
0.0°	369	369	368	328	157
90.0°	369	370	369	366	230
180.0°	368	369	368	274	136
270.0°	368	369	369	360	190
平均	368.50	369.30	368.50	332.00	178.30
方差	0.60	0.50	0.60	42.10	41.00

WiFi RvR 测试报表(5G_ac_80M_CH36)							
角度\衰減	OdB	10dB	20dB	30dB	40dB		
0.0°	341	338	334	261	129		
90.0°	341	340	326	279	157		
180.0°	349	340	327	229	93		
270.0°	344	337	323	250	133		
平均	343.80	338.80	327.50	254.80	128.00		
方差	3.80	1.50	4.70	20.90	26.40		