

Antenna Reports

Issue date : May 13, 2024

Test Engineer : Guanwei

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General information

Antenna number	Three in one: T703-14RB-040
Model name	WM10128S
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 calibration date	8753E Network Analyzer \ June 15, 2023
Test the software	OuTuo

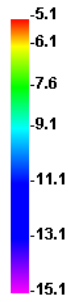
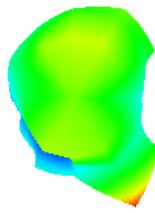
Test result

ANT 1

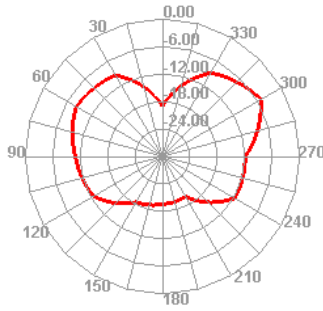
Frequency Bands	Frequency [MHz]	Peak Gain (dBi)	Polarization
GPS	1575	-5.11	
WIFI2.4G/BT	2400-2500	-2.34	
WIFI5G	5150-5850	-0.88	

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

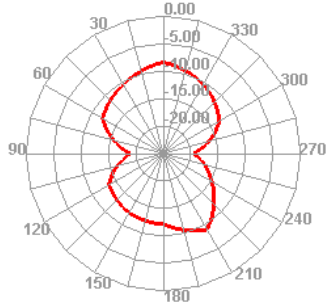
1575.000MHz



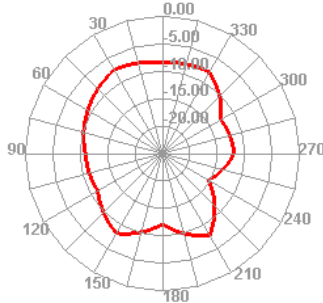
1575.000MHz H



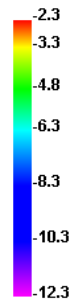
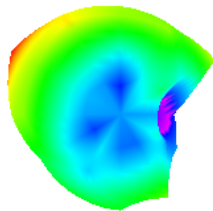
1575.000MHz E1



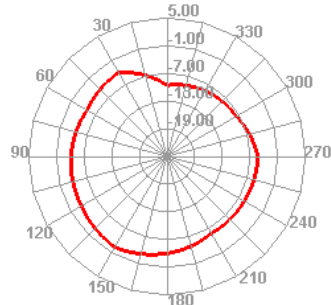
1575.000MHz E2



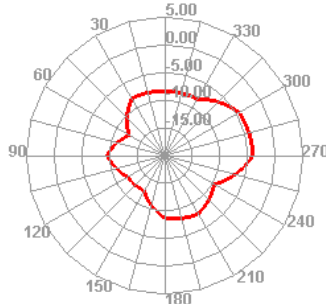
2450.000MHz



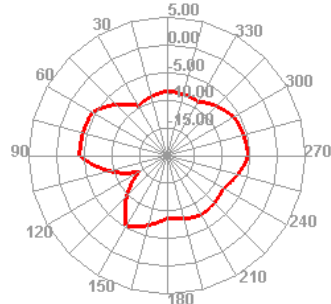
2450.000MHz H



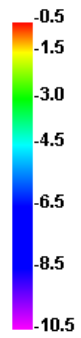
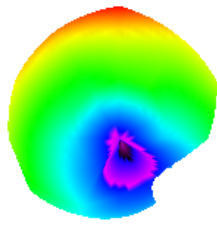
2450.000MHz E1



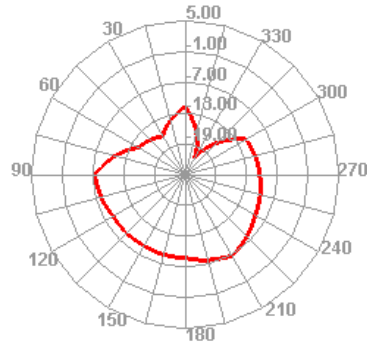
2450.000MHz E2



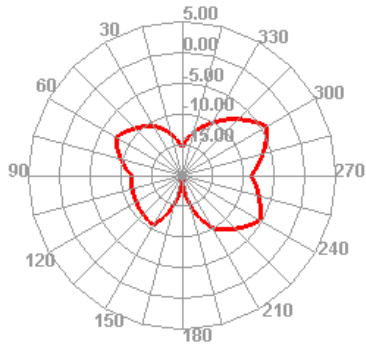
5490.000MHz



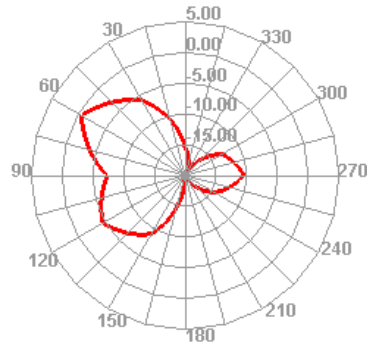
5490.000MHz H



5490.000MHz E1



5490.000MHz E2



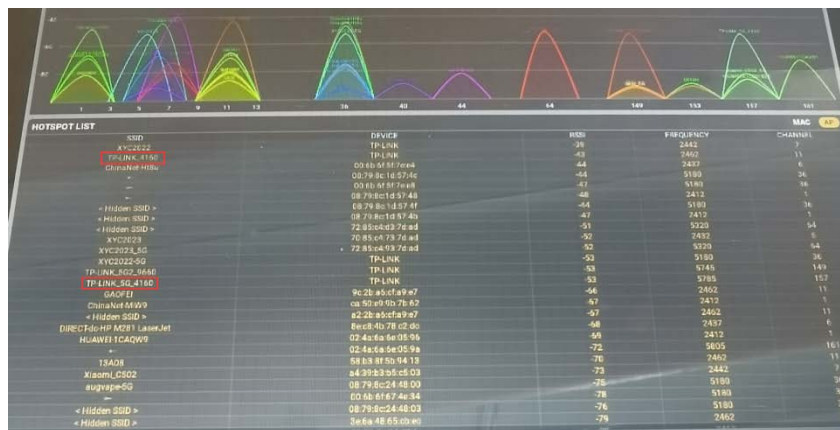
GPS star search test

QZT5/1111 R251/1111 B256/1111 E375/1111 Q330/1111 L1/1111 V1111

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SVID	Fq	CNR
2	L1	41.2
3	L1	24.4
4	L1	0.0
7	L1	18.2
8	L1	26.0
9	L1	27.4
16	L1	29.6
17	L1	27.2
21	L1	38.8
27	L1	19.7
30	L1	25.2
76	L1	24.3
79	L1	21.0
81	L1	30.1
27	L1	20.8
29	L1	27.1
36	L1	32.0
13	L1	37.5
2	L1	36.0
3	L1	36.0
4	L1	30.0
7	L1	30.0
41	L1	26.0

Wifi Antenna test



WIFI RVR test

CH1 TX

角度\衰减	0dB	10dB	20dB	30dB	40dB
0.0°	68.9	69.3	69.7	69.2	55.9
90.0°	68.8	68.9	68.7	68.8	60.4
180.0°	68.7	68.9	68.7	68.7	68.4
270.0°	68.8	68.8	68.5	68.8	55.8

CH1 RX

角度\衰减	0dB	10dB	20dB	30dB	40dB
0.0°	74.3	74.2	74.2	74.1	51.6
90.0°	73.7	73.7	74.1	73.9	65.2
180.0°	74.3	74	74.2	73.9	74
270.0°	74.2	74.4	74	74.3	60.2

CH161 TX

角度\衰减	0dB	10dB	20dB	30dB	40dB
0.0°	367	368	336	244	155
90.0°	368	368	355	270	165
180.0°	245	233	234	216	88.7
270.0°	368	368	351	303	164

CH161 RX

角度\衰减	0dB	10dB	20dB	30dB	40dB
0.0°	372	373	373	373	292
90.0°	373	373	373	372	276
180.0°	374	373	373	372	238
270.0°	373	373	373	373	365