



Acknowledgment Letter

SPECIFICATION FOR APPROVAL

Customer Name

CUSTOMER NAME: Skyworth

Product Name

PRODUCT NAME: D156-V1.1 FPC WIFI antenna

Customer part number

CUSTOMER P/N: NO12101-000034-001

	MANUFACTURER	CUSTOMER
	SIGNATURE	SIGNATURE
CHECKED BY:	Yan Peihao	
APPROVED BY:	Feng Juan	
DATE:	2022.07.20	

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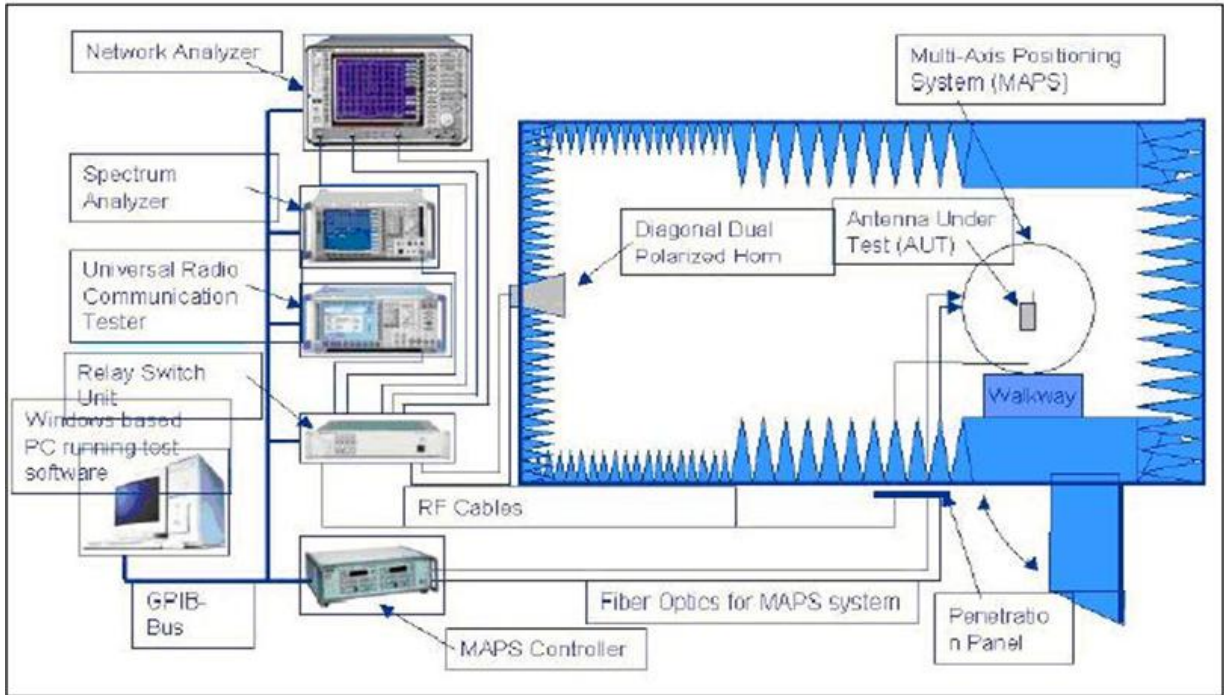
phone: 0755-27728733

fax: 0755-27805416

Contents

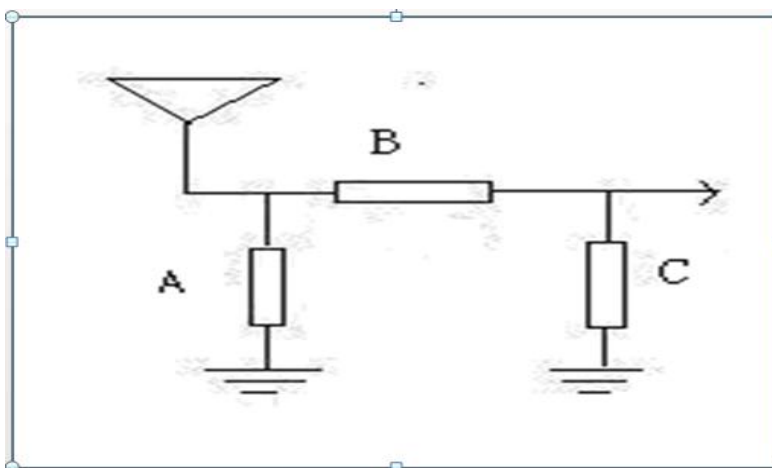
<i>Item</i>	<i>Description</i>
1.	Testing instruments and environment
2.	Matching circuit
3.	Picture of the entire machine and antenna
4.	antenna S11, ReturnLoss, Smith Circle diagram
5.	WIFI Active testing data
6.	WIFIActive testing data
7.	Antenna efficiency gain
8.	antenna/2.4G directional pattern
9.	antenna/5G antenna direction diagram
10.....	Antenna line sample diagram

1 . Testing instrument and environment: CTIA 743 darkroom, 8960/5515C, with the phone placed backwards at a turntable 4 meters away from the standard speaker antenna



2. Matching circuit

No changes made to the matching circuit.

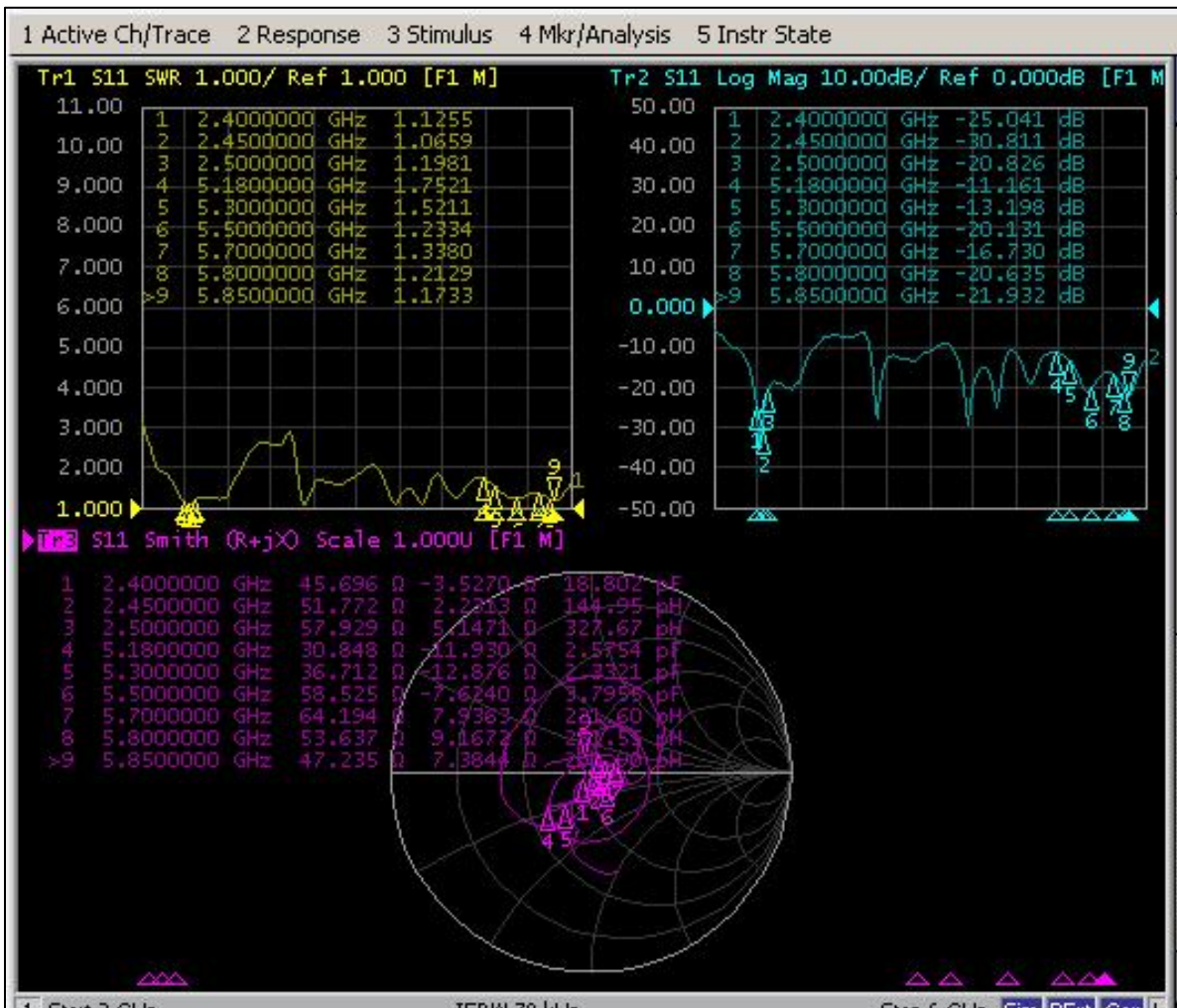


Matching circuit	A	B	C
numerical value	NF	00hms	NF

3. Picture of the entire machine and antenna



4. antenna S11, ReturnLoss, Smith Circle diagram





5.WIFIActive testing data

WIFI2.4G b模			
Test	WIFI		
Result	1	6	11
TRP (dBm) 11MBps	11.25	11.52	11.47
Test	WIFI		
TIS (dBm) 11MBps	-84.15	-83.27	-83.52
WIFI2.4G g模			
Test	WIFI		
Result	1	6	11
TRP (dBm) 54MBps	9.73	9.86	10.29
Test	WIFI		
TIS (dBm) 54MBps	-70.33	-69.79	-69.03
WIFI2.4G N模			
Test	WIFI		
Result	1	6	11
TRP (dBm) MCS7	10.62	10.23	10.42
Test	WIFI		
TIS (dBm) MCS7	-70.25	-69.89	-69.52

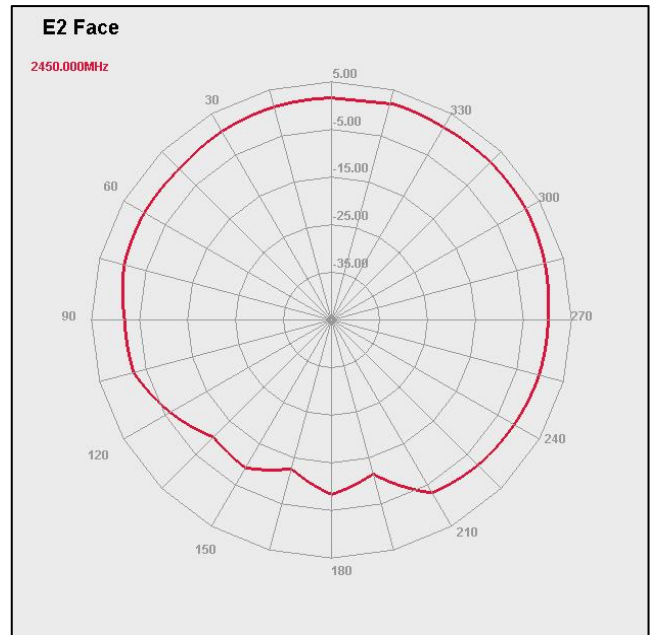
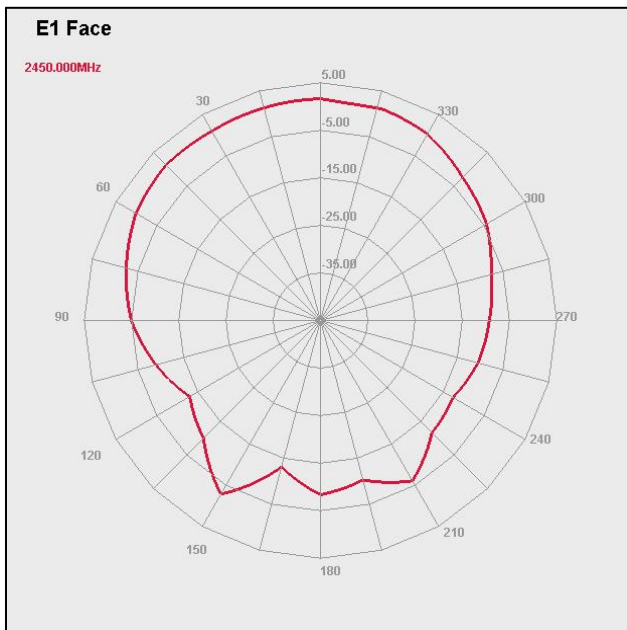
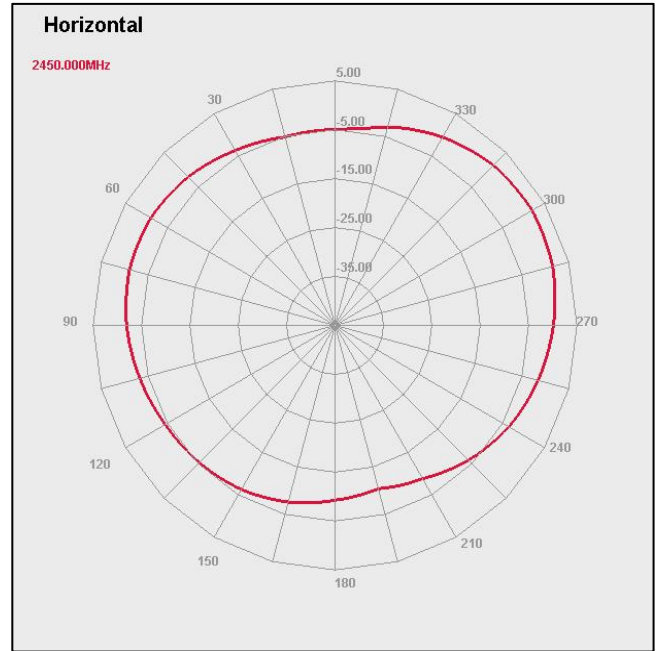
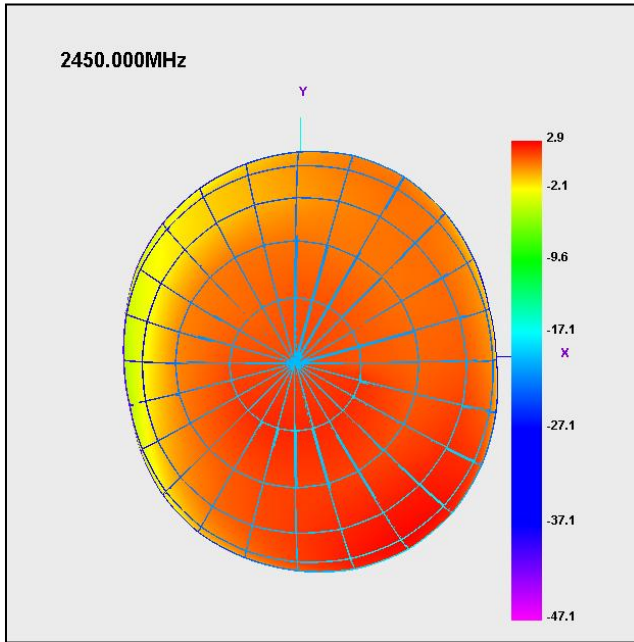
6.WIFIActive testing data

WIFI 5G a模			
Test	WIFI		
Result	1	6	11
TRP (dBm) 6MBps	12.25	13.02	13.37
Test	WIFI		
TIS (dBm) 54MBps	-71.15	-70.57	-70.25
WIFI 5G g模			
Test	WIFI		
Result	1	6	11
TRP (dBm) 54MBps	11.25	11.56	11.72
Test	WIFI		
TIS (dBm) 54MBps	-70.36	-69.55	-69.08
WIFI 5G N模			
Test	WIFI		
Result	1	6	11
TRP (dBm) MCS7	11.09	11.16	11.58
Test	WIFI		
TIS (dBm) MCS7	-69.27	-68.88	-68.53

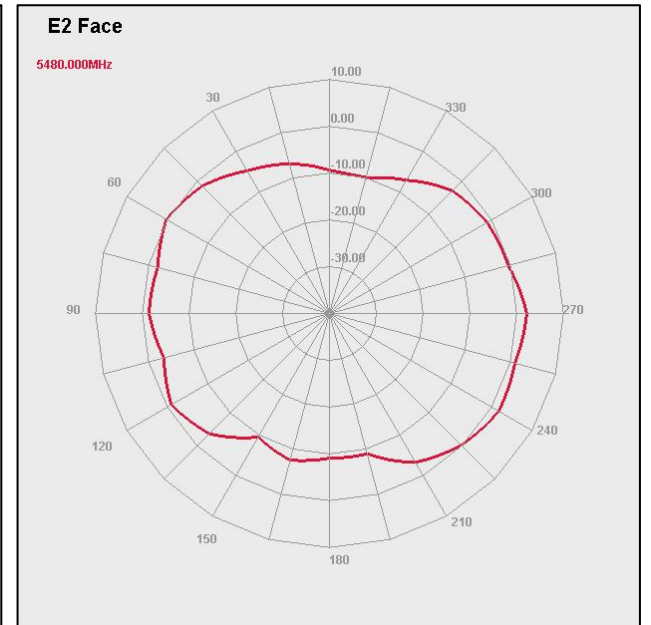
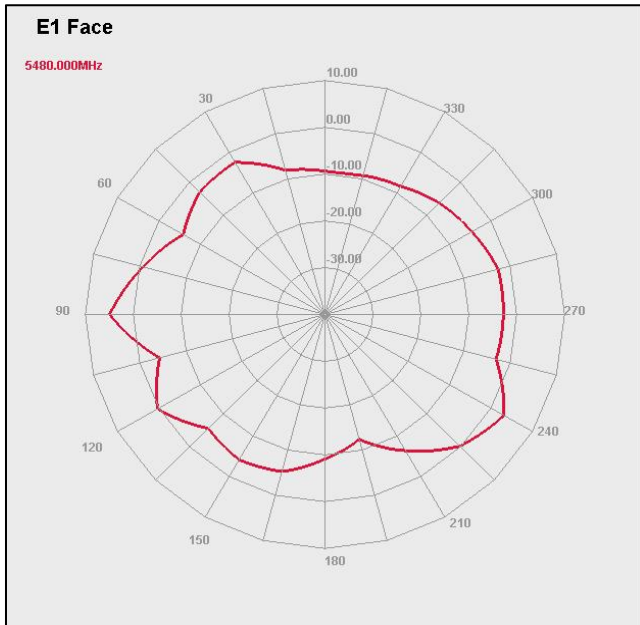
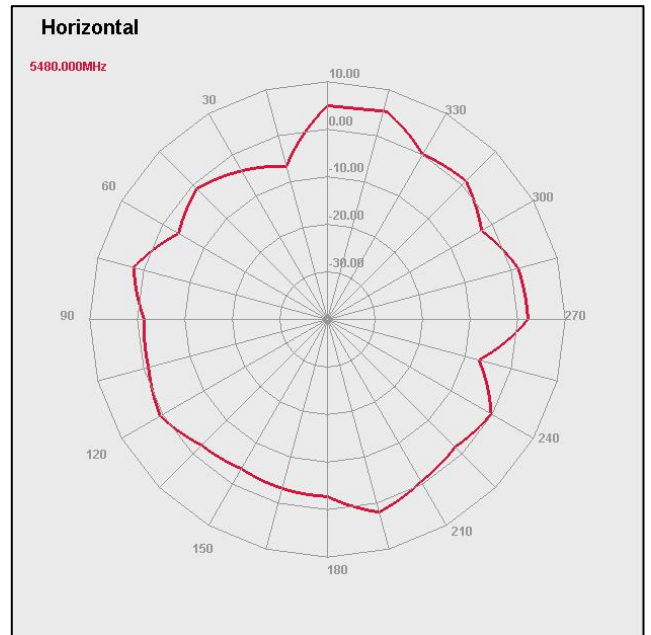
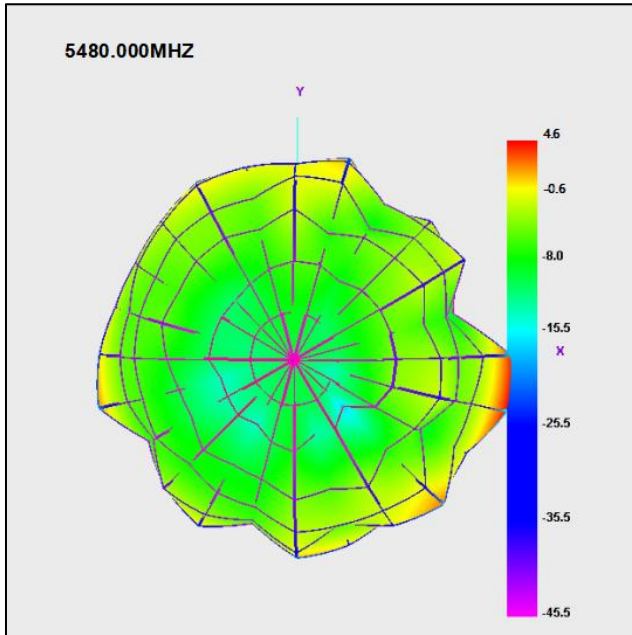
7. Antenna efficiency gain

Freq (MHz)	Effi (%)	Gain (dBi)		Freq (MHz)	Effi (%)	Gain (dBi)
2400	58.02	2.28		5120	50.97	2.48
2405	57.85	2.28		5160	52.22	2.62
2410	57.34	2.23		5200	51.74	2.75
2415	57.5	2.24		5240	52.38	2.94
2420	59.05	2.35		5280	53.57	3.2
2425	60.63	2.47		5320	55.54	3.4
2430	61.09	2.49		5360	57.13	3.73
2435	63.08	2.6		5400	61.91	4.4
2440	64.93	2.71		5440	62.71	4.37
2445	65.89	2.78		5480	64.22	4.6
2450	67.37	2.87		5520	63.59	4.56
2455	68.25	2.9		5560	65.19	4.58
2460	68.73	2.9		5600	64.43	4.6
2465	68.34	2.89		5640	67.32	4.55
2470	69.61	2.97		5680	67.45	4.37
2475	71.91	3.06		5720	67.19	4.23
2480	72.59	3.09		5760	67.48	3.76
2485	73.34	3.23		5800	64.54	3.65
2490	73.43	3.34		5840	66.36	3.58
2495	74.13	3.28		5880	64.88	3.2
2500	74.24	3.31		5920	66.27	3.99
				5960	67.46	4.01

8.antenna/2.4G directional pattern:



9.antenna/5G antenna direction diagram:



10. Antenna line sample diagram

