



Shenzhen Meihejia Technology Co., Ltd.

Antenna test report



Customer name	Zhongyue	Project name	N80
Commissioning frequency band	WIFI	Structure mode	FPC
Radio frequency engineer	Cao Gong	Construction engineer	Liang Gong
Antenna type	PIFA	Date	2023-03-23

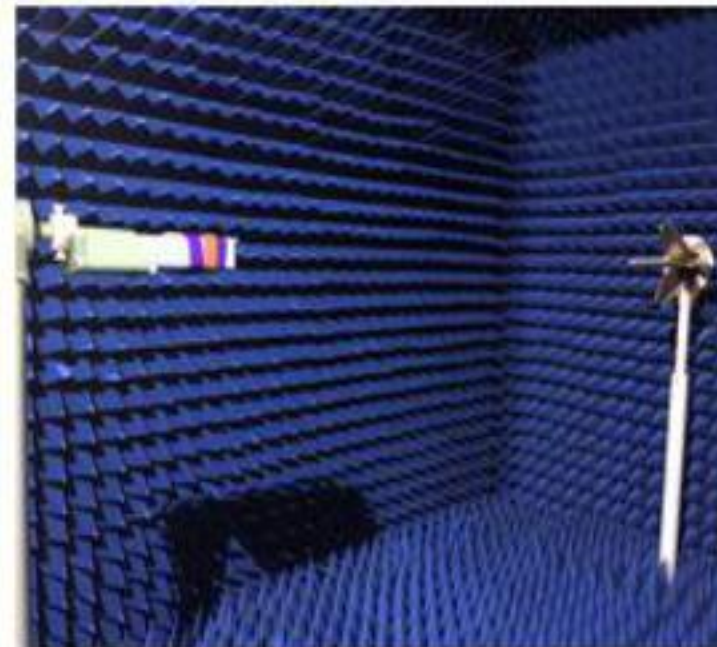


Test environment

	test project	equipment
1. (S-parameter)	1. (Return Loss) 2. (VSWR)	Agilent E5071B HP 8753D
2. (Active)	1. (TRP) 2. (TIS)	1. ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Agilent 8960 E5515B × 2 StarPoint SP6011
3. (Passive)	1 (Gain) 2 (Efficiency)	1. ETS 7x4x3 m (3D) Chamber ETS 5x3x3 m (3D) Chamber 2. Agilent E5071B HP 8753D



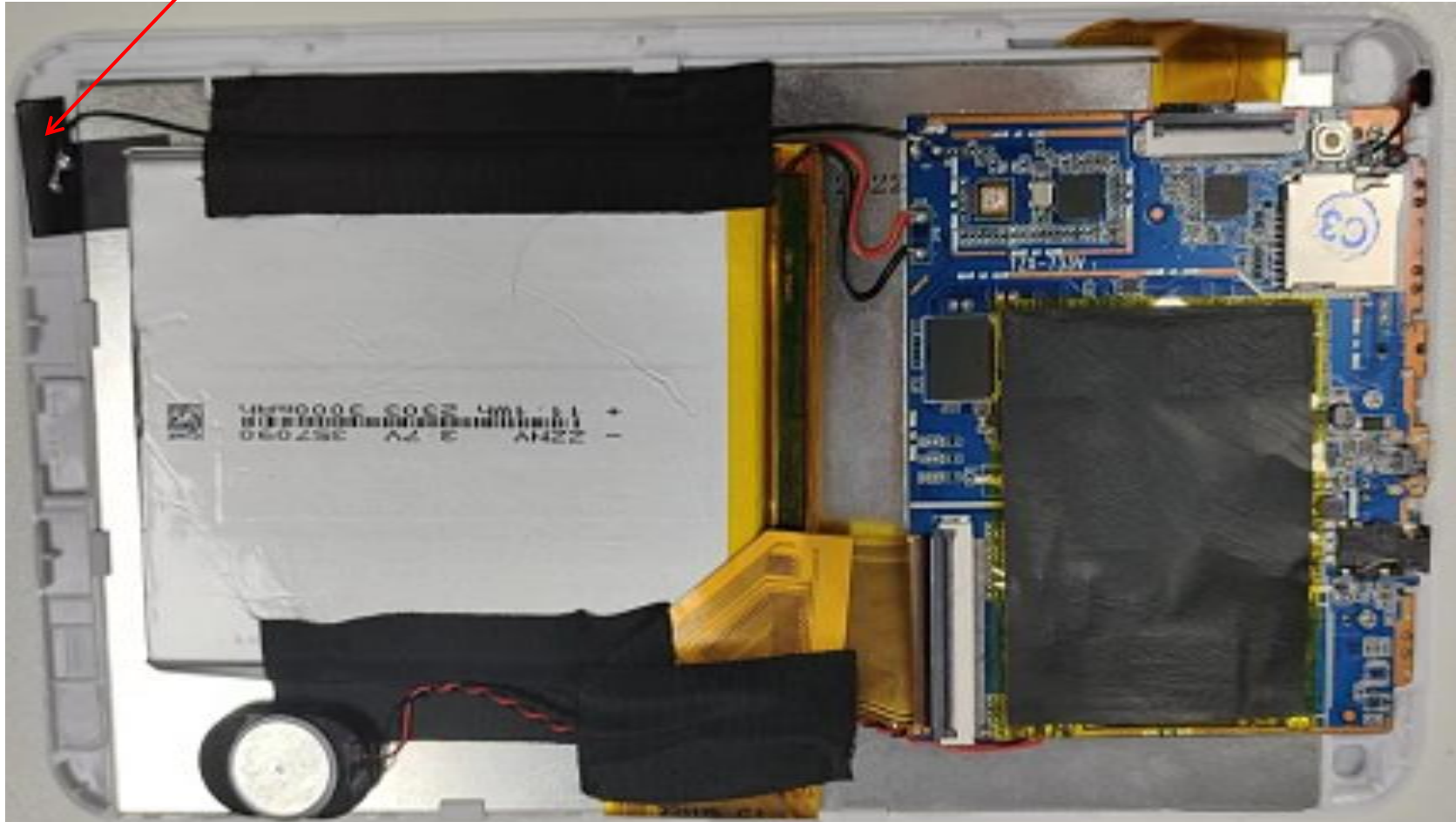
Test Equipment





Antenna position

WIFI Antenna



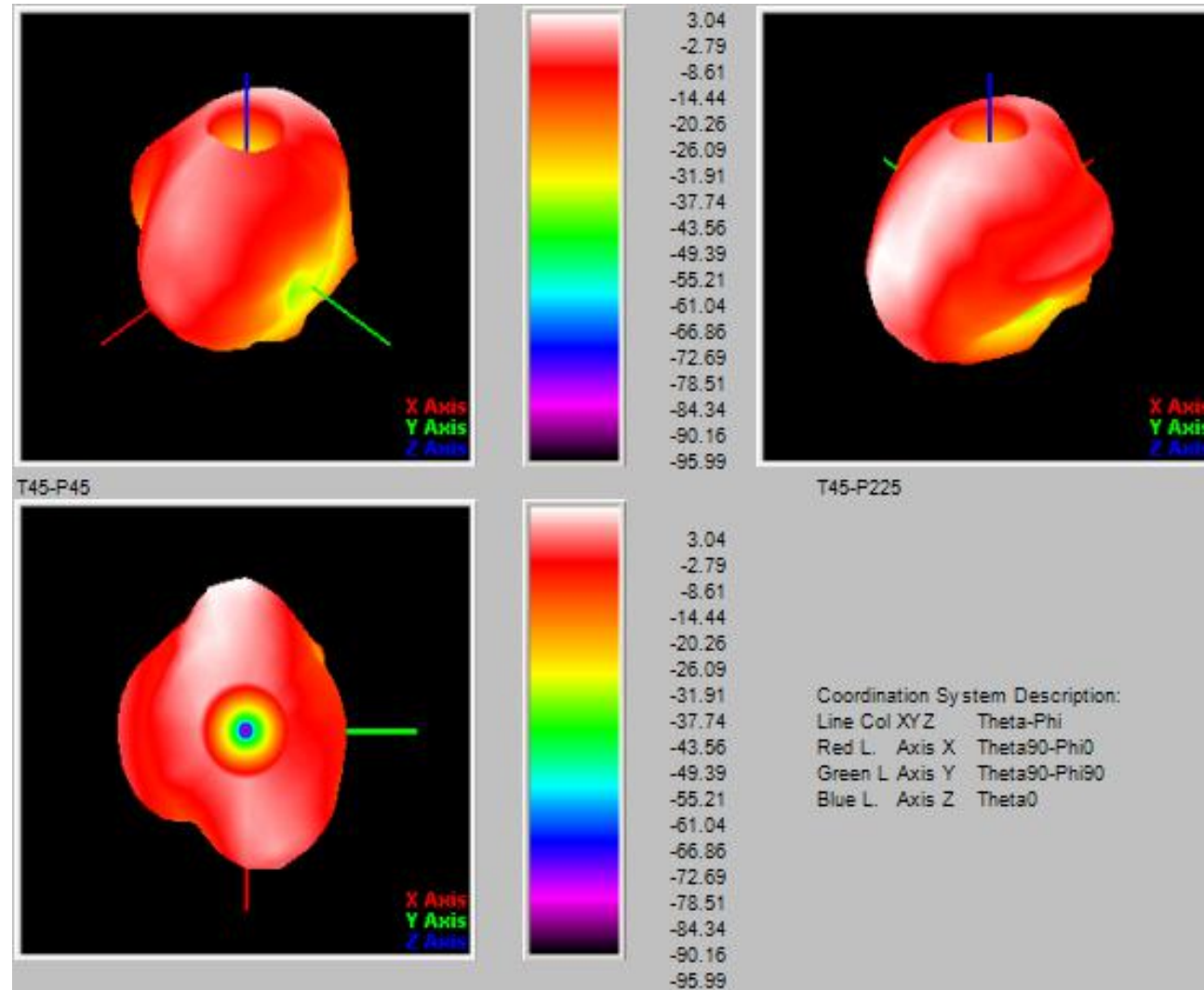


Efficiency and gain

Test Point ID	Freq. (MHz)	TRP (dBm)	Gain (dBi)	Directivity (dBi)	Efficiency (%)	Efficiency (dB)	Max (dBm)	Theta of Max	Phi of Max	Min (dBm)	Theta of Min	Phi of Min	AVG (dBm)	Max/Min (dB)	Max/AVG (dB)	Min/AVG (dB)
1	2400.0	2400.00	3.04	6.33	46.9%	-3.29	3.04	60	180	-95.99	0	0	-2.93	99.03	5.96	-93.06
2	2410.0	2410.00	3.17	6.51	46.4%	-3.33	3.17	60	180	-95.99	0	0	-2.75	99.16	5.93	-93.24
3	2420.0	2420.00	3.51	6.76	47.2%	-3.26	3.51	60	180	-95.99	0	0	-2.42	99.50	5.93	-93.57
4	2430.0	2430.00	3.98	6.94	50.6%	-2.96	3.98	60	195	-95.99	0	0	-1.98	99.97	5.96	-94.01
5	2440.0	2440.00	3.78	6.87	49.1%	-3.09	3.78	60	195	-95.99	0	0	-2.17	99.77	5.95	-93.82
6	2450.0	2450.00	3.84	6.91	49.2%	-3.08	3.84	60	195	-95.99	0	0	-2.18	99.83	6.01	-93.81
7	2460.0	2460.00	3.90	6.90	50.0%	-3.01	3.90	30	210	-95.99	0	0	-2.13	99.89	6.03	-93.86
8	2470.0	2470.00	3.73	6.67	50.8%	-2.94	3.73	30	210	-95.99	0	0	-2.28	99.72	6.01	-93.71
9	2480.0	2480.00	3.44	6.37	50.9%	-2.93	3.44	45	195	-95.99	0	0	-2.67	99.43	6.11	-93.32
10	2490.0	2490.00	3.17	6.28	49.0%	-3.10	3.17	45	195	-95.99	0	0	-2.91	99.16	6.08	-93.08
11	2500.0	2500.00	3.28	6.35	49.3%	-3.07	3.28	45	195	-95.99	0	0	-2.95	99.27	6.23	-93.04

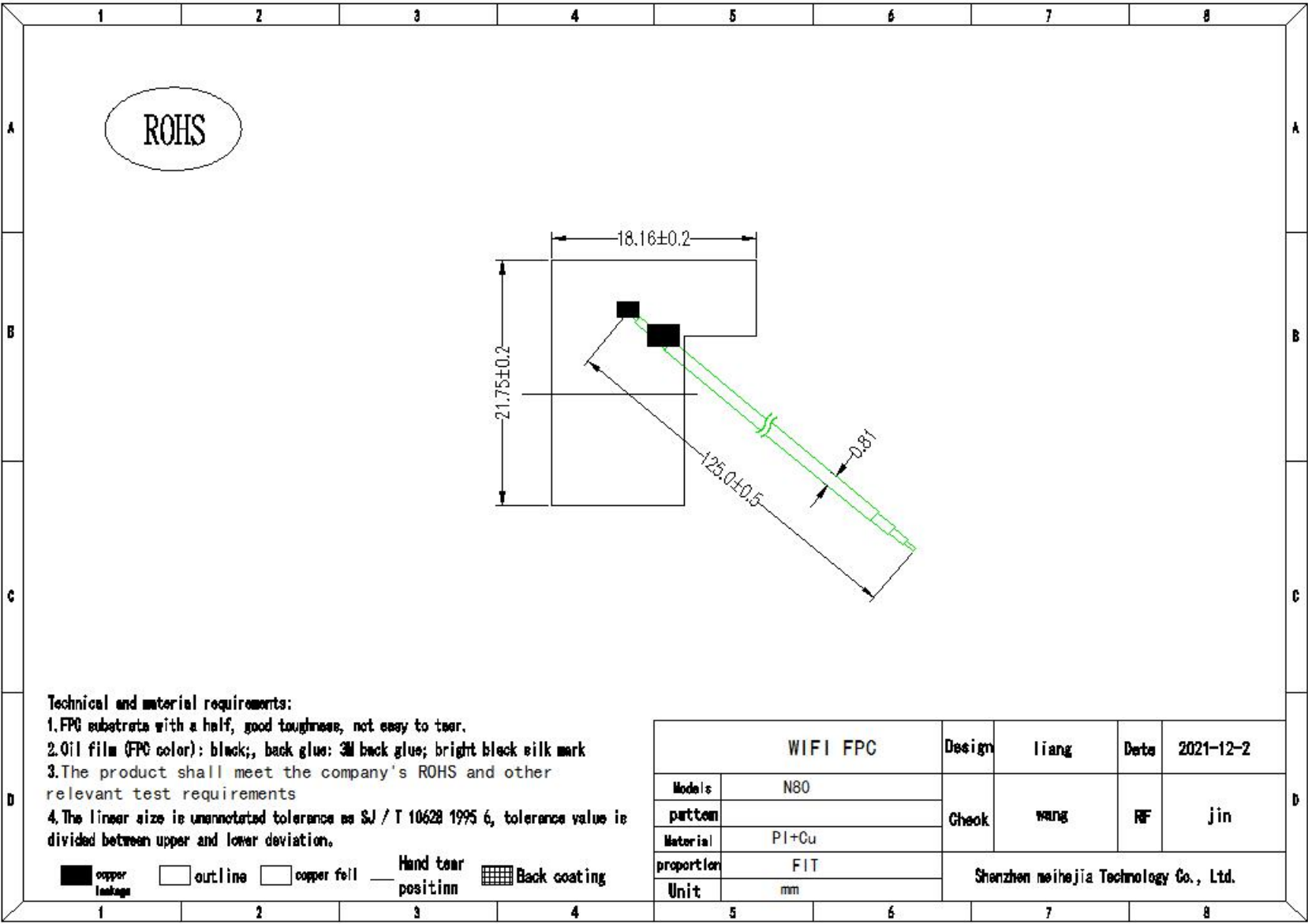


Efficiency and gain





Structural drawings





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