



深圳通诚无限科技有限公司

Shenzhen Tongcheng infinite Technology Co., Ltd

SPECIFICATION FOR APPROVAL

supplier: ShenzhenTongchengInfinite Technology Co., Ltd
4 / F, Jinfulai Complex Building, Dabaolu, Dalang Community,
Xin 'an Street, Bao 'an District, Shenzhen

Supplierspecifications:2.4/5.8G WiFiantenna

Supplier model: TCNZWJ2458G-1

Customer Name : Shenzhen Jiuzhou Electric Appliance Co., Ltd

Customer Item No : 1.XMR.CAB601

Version No : DTC9757antenna V1.0

Sample delivery date : 2022/12/14

Antenna Type: Metal Antenna

Ackno wledg ment column	supplier	RF Engineer	to examine	approval	file
		Yan Peihao	Zhong Anmin	Feng Juan	Huang Wenmei
	customer	Certified Engineer	to examine	approval	file



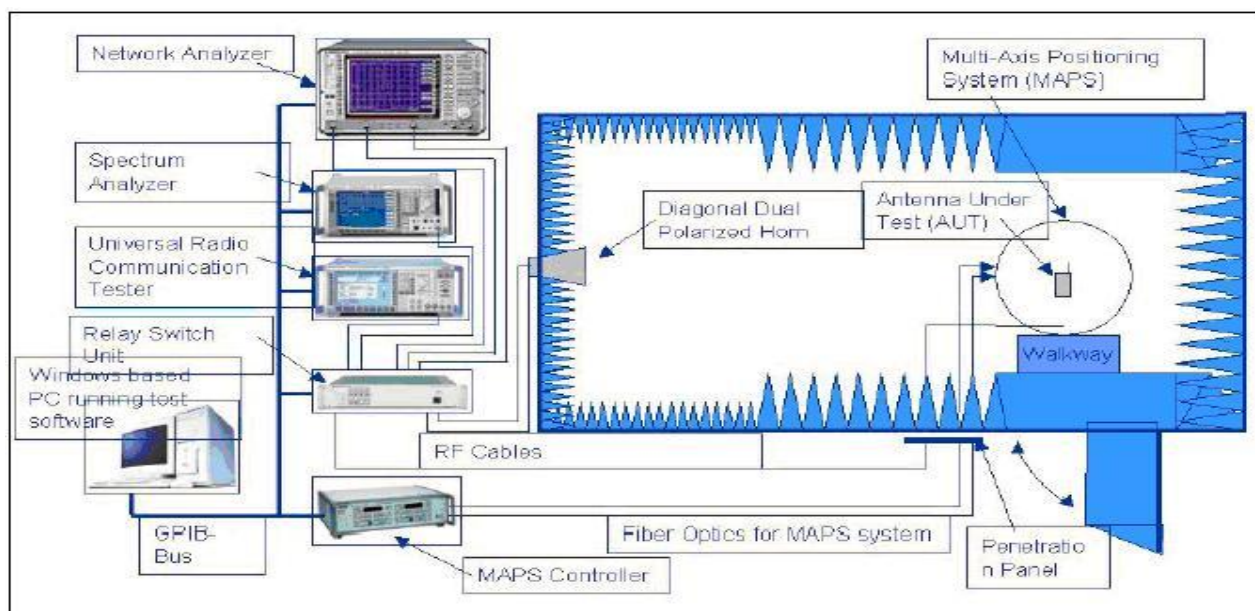
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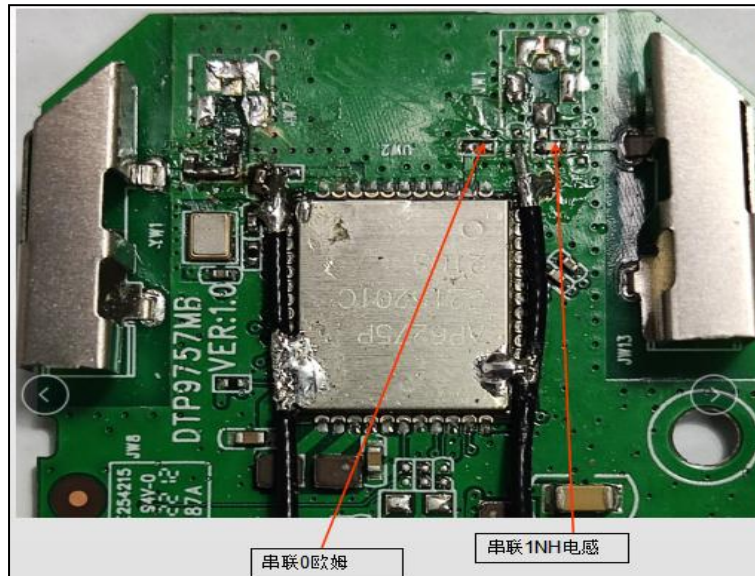
1 . Test instrument and environment: CTIA 743 darkroom, 8960 / 5515c, the mobile phone is placed back to the turntable 4 meters away from the standard horn antenna:



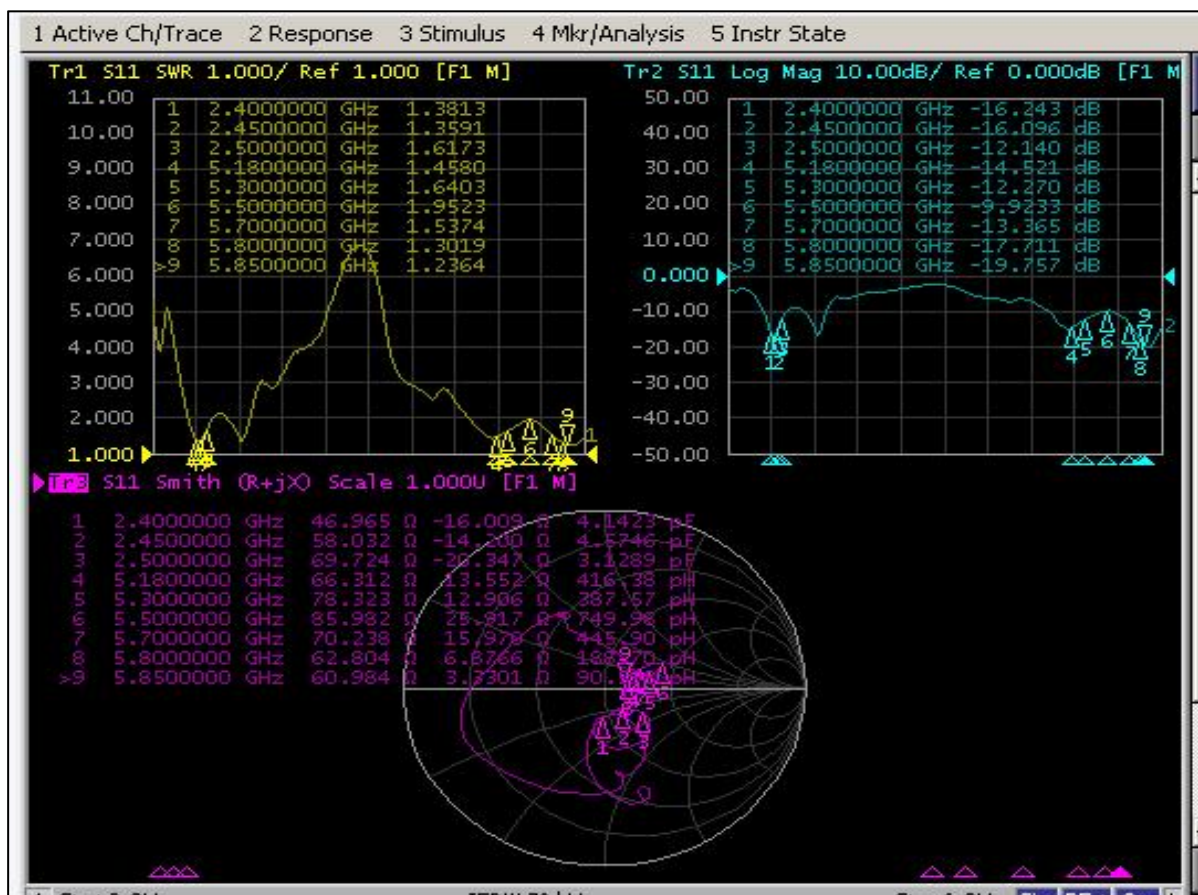
2. Antenna performance:

序号	Work index	Working parameters
1	working frequency	2400-2500MHZ/5120-5960MHZ
2	Standing wave ratio	≤ 2.0
3	Return loss	-10dB Max
4	Antenna gain	Peak gain2.4G 2400MHZ-2483.5MHZ:3.65 dBi Peak gain5G 5150MHZ-5250MHZ:2.8 dBi Peak gain5G 5250MHZ-5350MHZ:2.21 dBi Peak gain5G 5470MHZ-5725MHZ:2.62 dBi Peak gain5G 5725MHZ-5850MHZ:3.6 dBi
5	Antenna efficiency	2.4G: $\geq 50\%$ 5.8G: $\geq 50\%$
6	Polarization direction	Vertical / horizontal
7	Interface type	/welding
8	Antenna size	19.7*4.7*8.6MM

3. building-out circuit:



4. Antenna passive data S11, ReturnLoss, Smith :

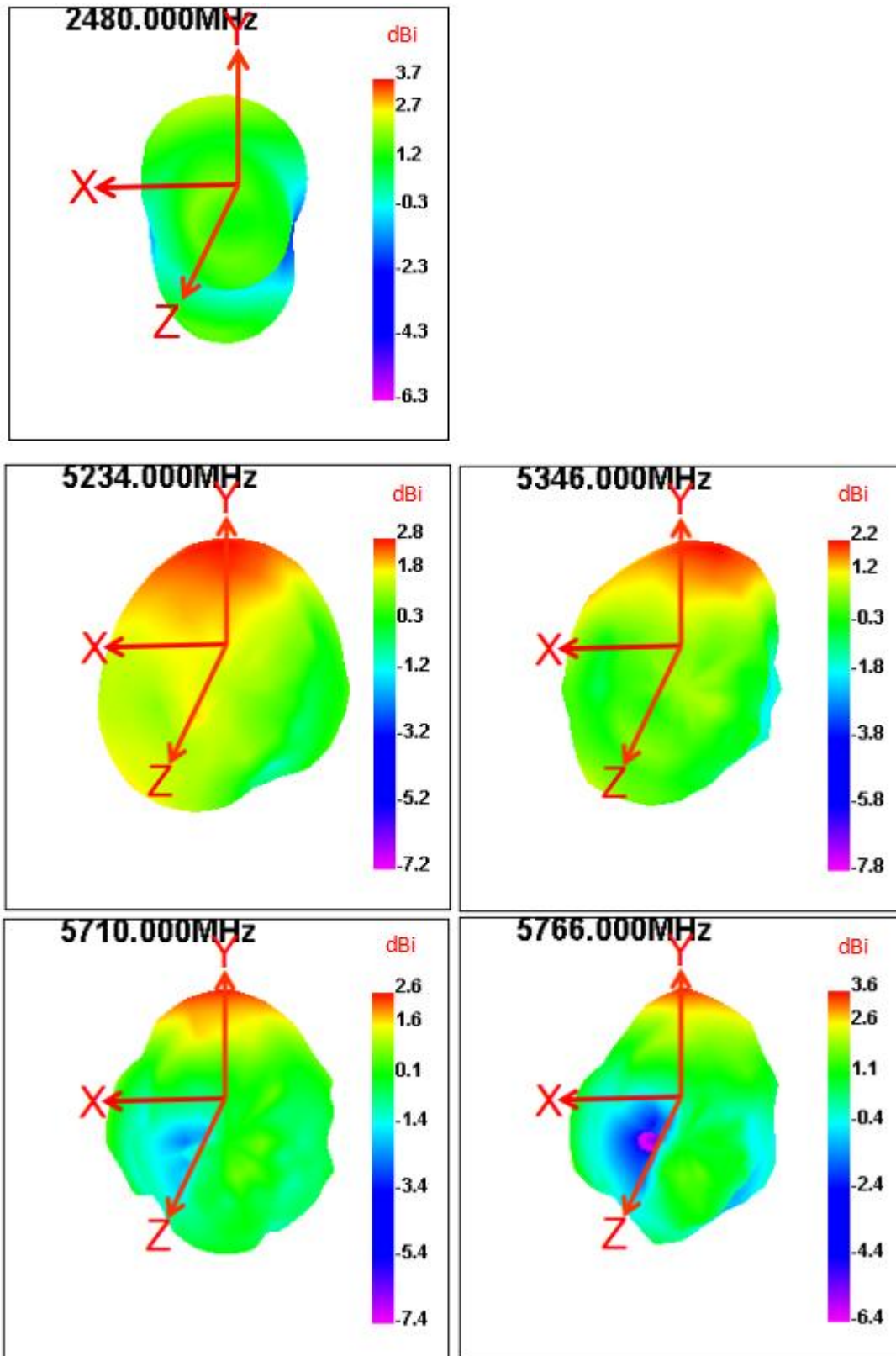


5. Gain of efficiency:

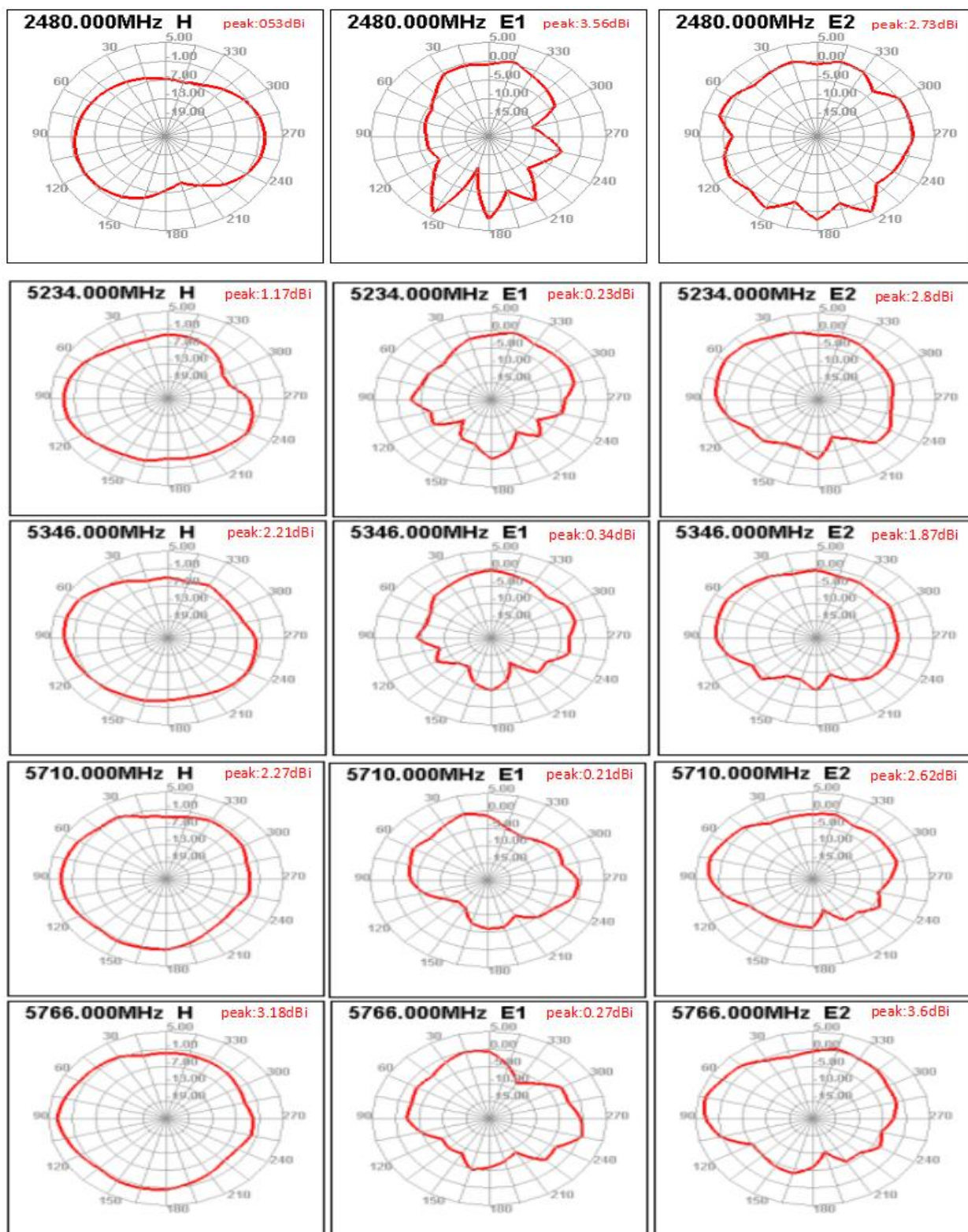
Freq (MHz)	Effi (%)	Gain (dBi)
2400	58.25	2.04
2405	57.77	2.06
2410	57.68	2.15
2415	58.48	2.28
2420	60.19	2.4
2425	61.05	2.37
2430	61.2	2.35
2435	62.75	2.54
2440	63.79	2.74
2445	64.24	2.74
2450	65.16	2.89
2455	64.51	3.14
2460	64.4	3.25
2465	64.62	3.17
2470	65.26	3.25
2475	66.6	3.47
2480	68.25	3.65
2485	71.47	3.89
2490	72.78	3.99
2495	72.34	3.96
2500	73.45	4.11

Freq (MHz)	Effi (%)	Gain (dBi)
5150	56.08	2.19
5178	54.22	2.03
5206	53.03	2.58
5234	55.03	2.8
5262	52.62	2.04
5290	51.93	1.9
5318	53.24	2.19
5346	54.09	2.21
5374	55.78	2.33
5402	56.11	2.87
5430	56.18	1.89
5458	55.11	2
5486	53.66	1.3
5514	52.84	0.76
5542	51.87	0.85
5570	50.07	1.54
5598	51.11	2.11
5626	58.16	2.4
5654	56.78	2.42
5682	56.12	2.56
5710	56.79	2.62
5738	60.05	3.15
5766	62.18	3.6
5794	63.25	3.1
5822	66.28	3.53
5850	69.81	3.44

6.3D antenna orientation diagram:



7.2D antenna orientation diagram:



8. Antenna drawing:

