

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER(客户名称)	通力	
CS P/N(客户机种)	YY2087C	
PART NAME(品名)	WSM_1#天线组件	
MODEL NAME(型号名称)		
FREQUENCY(频率)	2400~2500/5150~5975MHz 6025~6975/7025~7125MHz	
ZTX NO.(物料编号)	2.00006591	
DATE(日期)	2024-06-25	

CUSTOMER			
QA CHECKED	ME CHECKED	RF CHECKED	MANAGER CHECKED

Remark(备注):

Sign(客户确认签字盖章):

Shenzhen ZTX Communication Technology Co., Ltd				
MANAGER CHECKED	MANAGER CHECKED	ME CHECKED	RF CHECKED	LISTER
		覃乐	韦进	



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ANTENNA SPECIFICATION

CUS P/N :YY2087C_WSM_1#天线组件
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Revision history

版本	日期	状态
A0	2024-06-25	初版

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ANTENNA SPECIFICATION

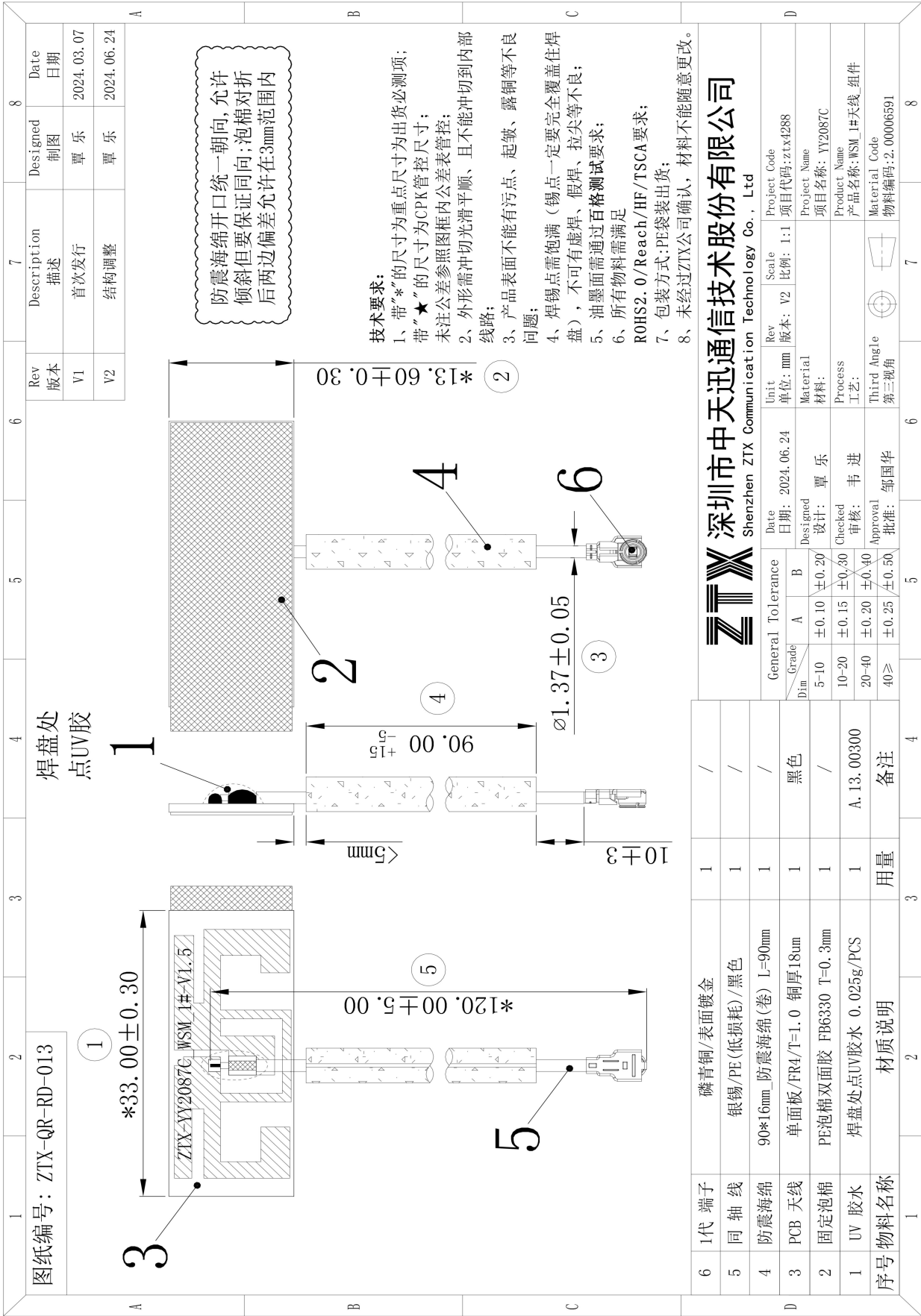
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1. Mechanical Specification

1-1 Mechanical Configuration (WSM_1#天线组件)



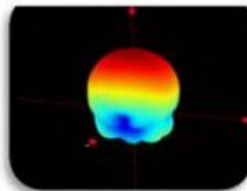
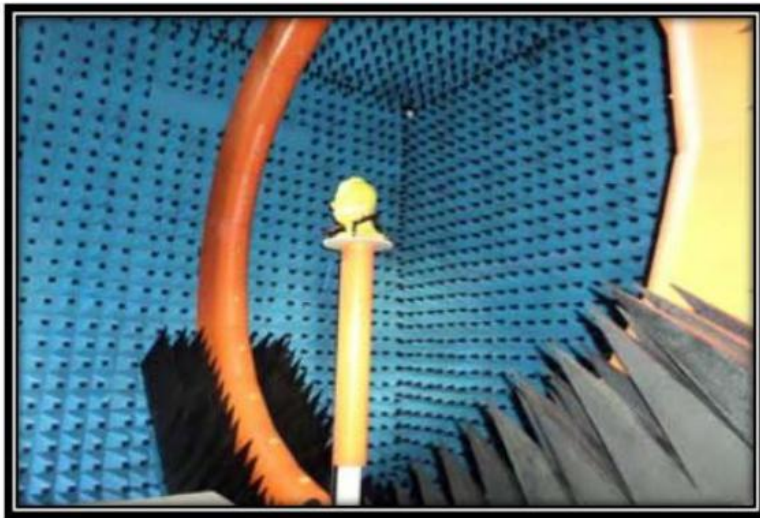
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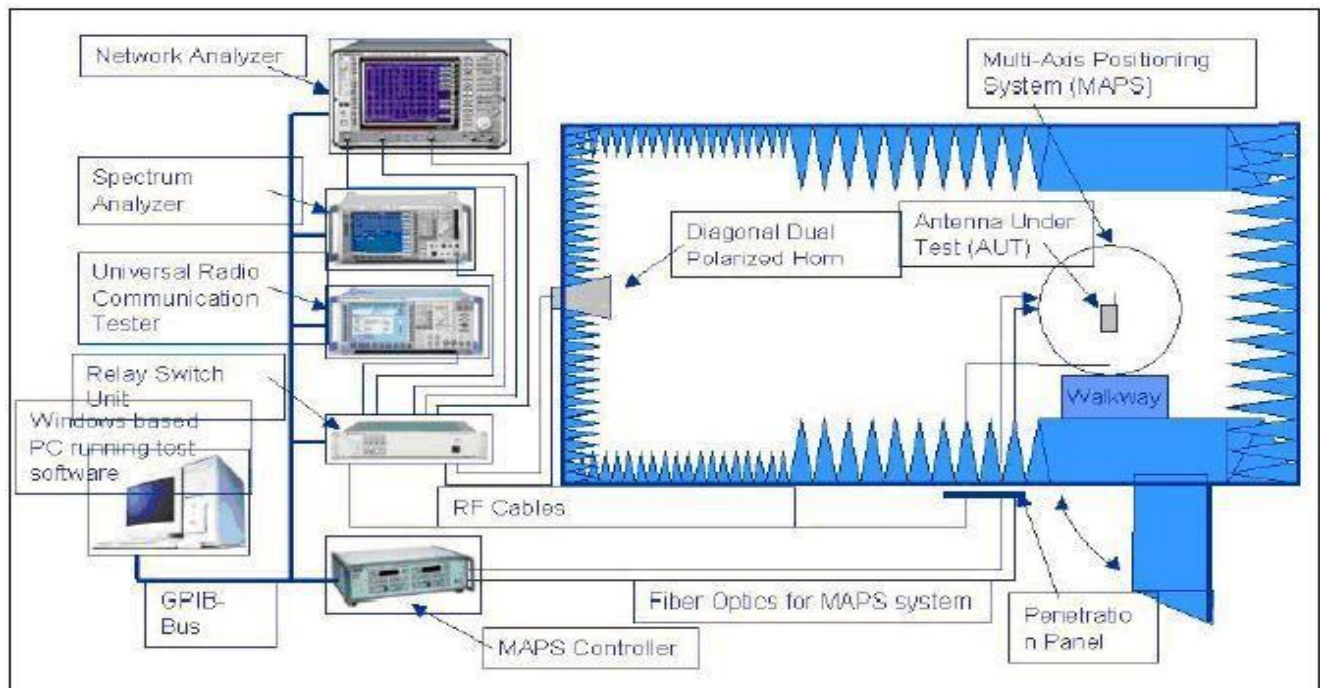
2.Test equipment



Owned 6 microwave dark room, equipped 2 sets world leading France Satimo SG24 OTA certification test systems (one in SHENZHEN, another one in Shanghai), ETS OTA Standard test system, Blue test reverberation test system which is High repeatability, high accuracy and high resolution. It can quickly provide accurate test reports, fully meet the CTIA standards.

Testing range:

Support active, passive testing of
GSM/CDMA/WCDMA/TD-
SCDMA/LTE/WIFI/WLAN/WiMax/BT
/GPS/MIMO/UWB within 0.4-6G.



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2-1 Active Test

WIFI传导数据				
频段	模式	CH	功率	灵敏度
2.4G	11b (6M)	1	9.4	-94
		6	9.4	-95
		11	9.4	-94
2.4G	11g (6M)	1	9.5	-92
		6	9.6	-92
		11	9.6	-92
2.4G	11n (6.5M)	1	9.8	-89
		6	9.8	-89
		11	9.8	-89
5G	11a(6M)	36	11.5	-92
		100	12.5	-92
		165	12.5	-92
5G	11n(6.5M)	36	11.6	-89
		100	12.5	-89
		165	12.5	-89

OTA数据(WIFI ANT1)					
频段	模式	CH	TRP	MAX	TIS
2.4G	11b (6M)	1	6.78	11.32	-91.35
		6	6.65	11.56	-92.24
		11	6.71	11.71	-92.11
2.4G	11g (6M)	1	6.41	11.62	-90.59
		6	6.64	11.74	-90.41
		11	6.75	11.82	-90.09
2.4G	11n (6.5M)	1	7.15	11.57	-86.22
		6	7.27	11.75	-87.12
		11	7.35	11.91	-87.39
5G	11a(6M)	36	9.12	15.85	-89.20
		100	9.66	16.12	-89.77
		165	9.90	16.23	-89.56
5G	11n(6.5M)	36	9.24	15.44	-86.51
		100	9.59	16.34	-86.33
		165	9.81	16.21	-86.09

OTA数据(WIFI ANT3)					
频段	模式	CH	TRP	MAX	TIS
2.4G	11b (6M)	1	6.73	11.52	-92.35
		6	6.54	11.47	-92.43
		11	6.33	11.62	-91.85
2.4G	11g (6M)	1	7.08	11.46	-90.33
		6	6.98	11.91	-90.57
		11	6.83	11.76	-90.08
2.4G	11n (6.5M)	1	7.04	11.84	-87.30
		6	7.31	11.53	-87.11
		11	7.22	11.76	-86.52
5G	11a(6M)	36	9.24	15.72	-89.77
		100	9.51	16.21	-90.35
		165	9.47	16.42	-90.44
5G	11n(6.5M)	36	9.31	15.64	-87.06
		100	9.55	16.28	-86.19
		165	9.74	16.37	-86.22

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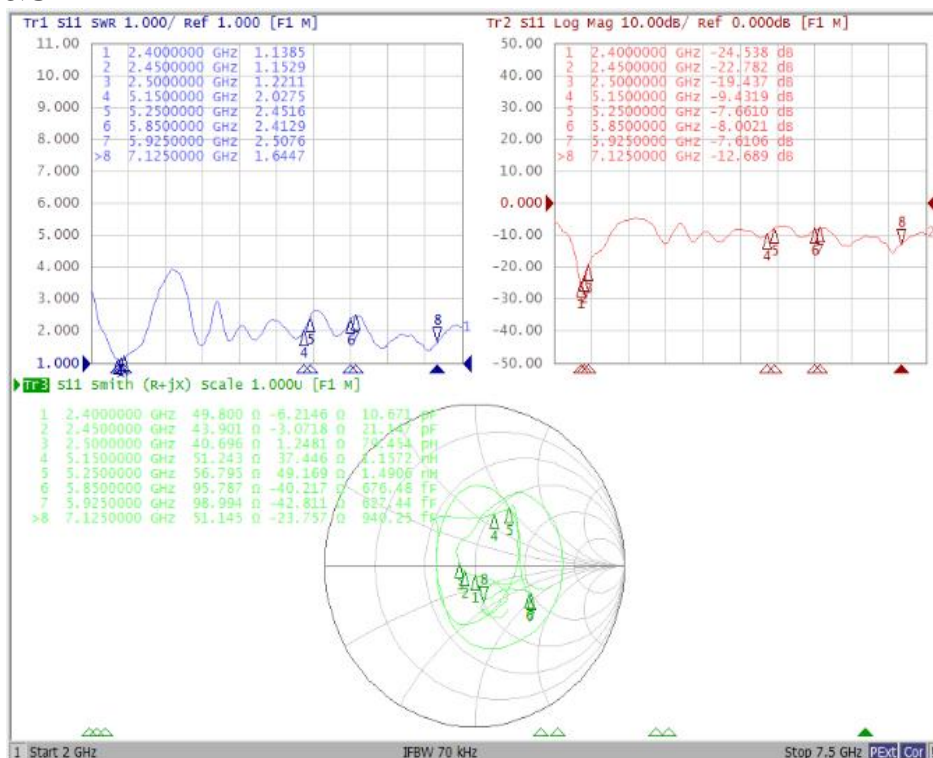
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2-2 VSWR&S11



2-3 Passive Test

Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)	Frequency (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	58%	-2.36	2.02	5925	50%	-2.98	3.04
2410	58%	-2.34	2.13	5975	56%	-2.50	3.37
2420	59%	-2.29	2.31	6025	53%	-2.80	3.01
2430	59%	-2.29	2.26	6075	57%	-2.44	3.16
2440	59%	-2.32	2.31	6125	57%	-2.42	3.08
2450	58%	-2.40	2.2	6175	57%	-2.48	3.25
2460	57%	-2.44	2.27	6225	56%	-2.54	3.15
2470	56%	-2.48	1.99	6275	60%	-2.20	3.31
2480	55%	-2.59	2.22	6325	58%	-2.39	3.15
2490	54%	-2.65	2.37	6375	62%	-2.08	3.61
2500	55%	-2.59	2.24	6425	61%	-2.12	3.56
5150	51%	-2.91	3.51	6475	59%	-2.32	3.81
5200	50%	-2.97	3.56	6525	58%	-2.37	4.07
5250	52%	-2.84	2.72	6575	58%	-2.37	4.02
5300	51%	-2.89	2.8	6625	56%	-2.51	4.11
5350	53%	-2.77	2.85	6675	58%	-2.38	4.08
5400	51%	-2.91	2.37	6725	63%	-1.97	4.68
5450	50%	-2.99	2.21	6775	56%	-2.50	4.37
5500	55%	-2.63	2.02	6825	59%	-2.26	4.74
5550	55%	-2.61	2.16	6875	57%	-2.42	4.57
5600	57%	-2.44	2.07	6925	61%	-2.18	4.49
5650	56%	-2.52	1.94	6975	63%	-2.02	4.66
5700	55%	-2.58	1.81	7025	57%	-2.47	3.78
5750	52%	-2.85	1.87	7075	59%	-2.31	4.31
5800	50%	-2.97	2.33	7125	54%	-2.71	3.91
5850	51%	-2.92	2.36				

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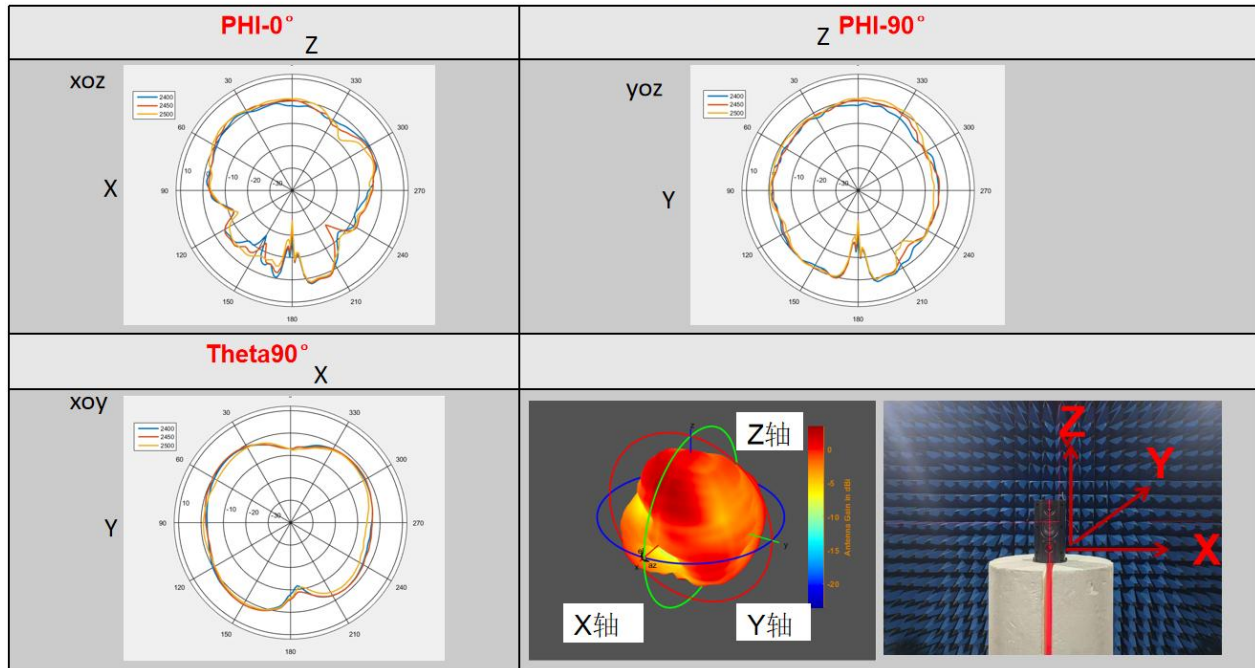
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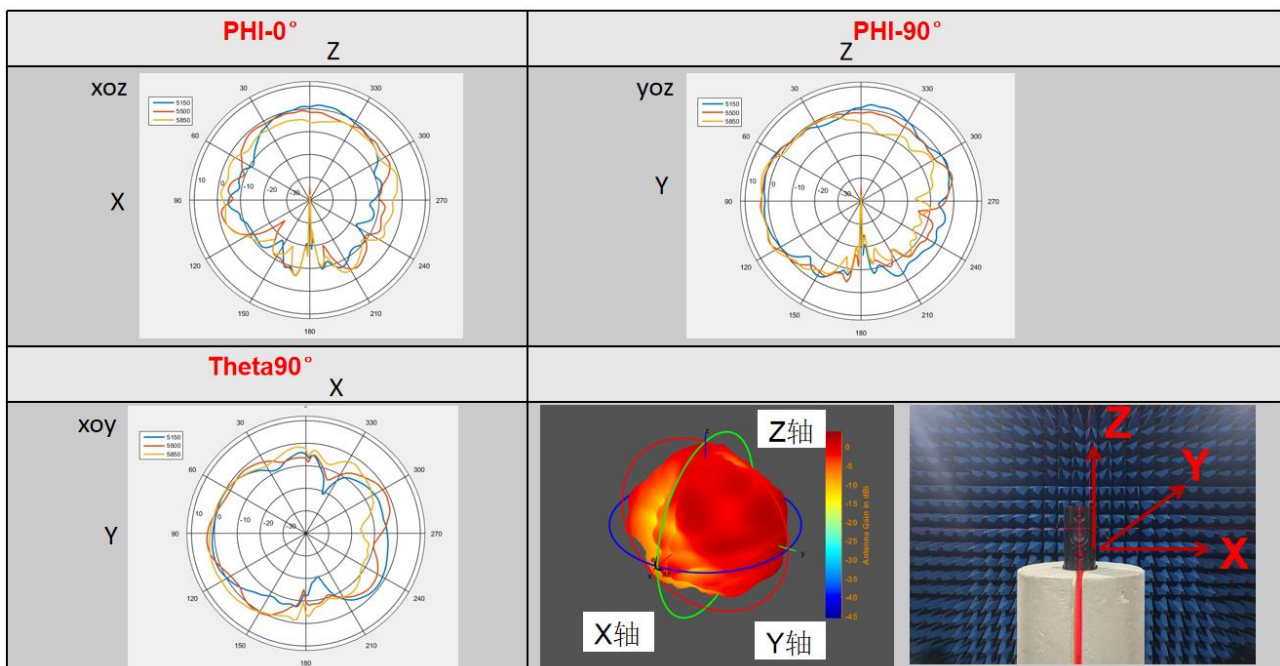
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2-4 2D/3DRadiationPatternResults

ANT 1#_2.4G (方向图)



ANT 1#_5G (方向图)



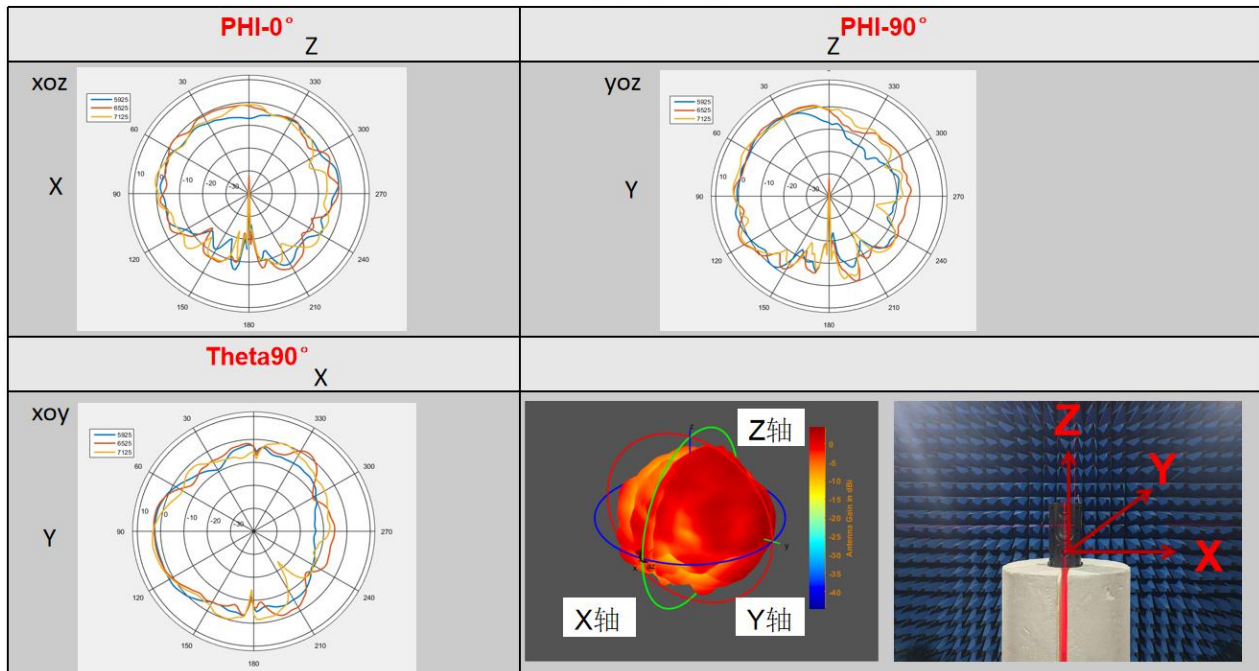
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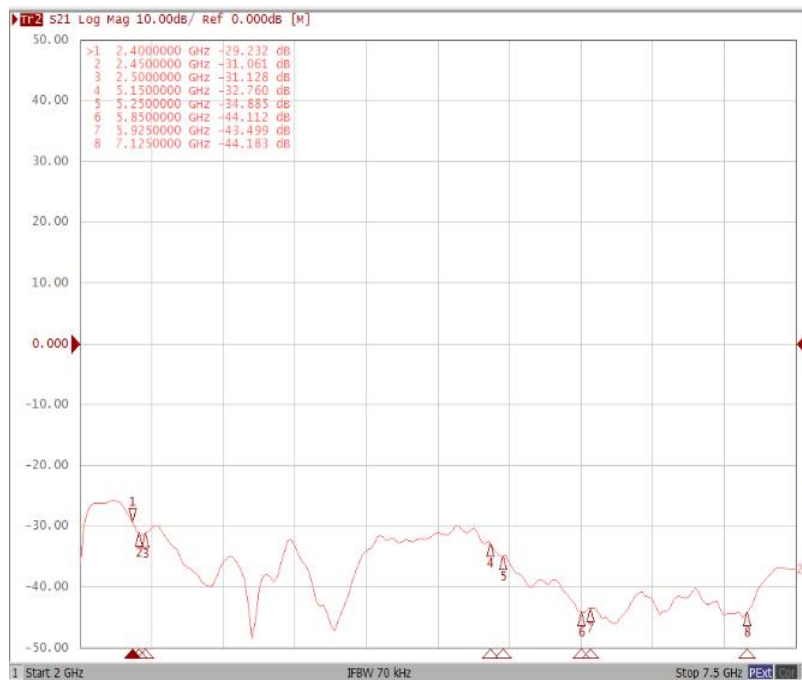
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ANT 1#_6G (方向图)



2-5 insulation

ANT1&ANT2



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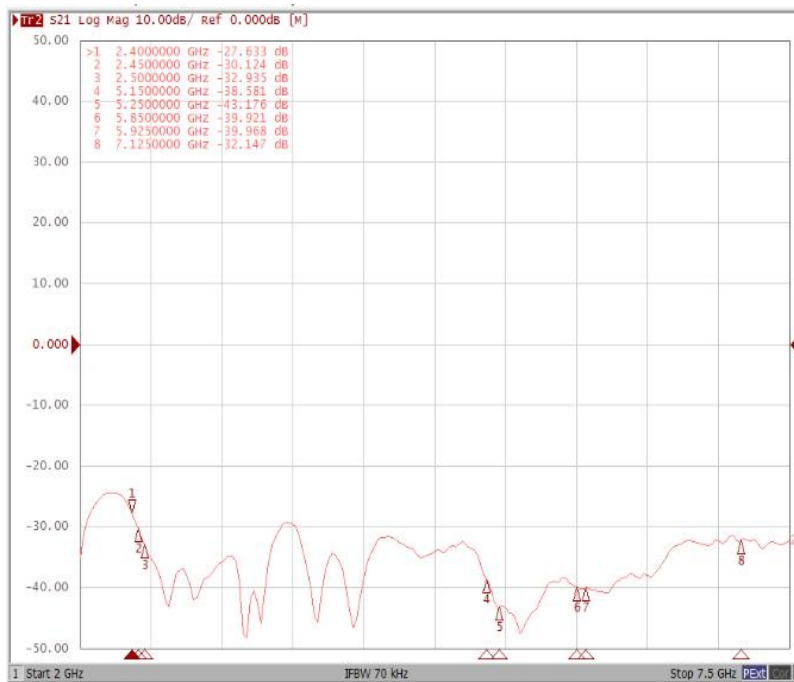
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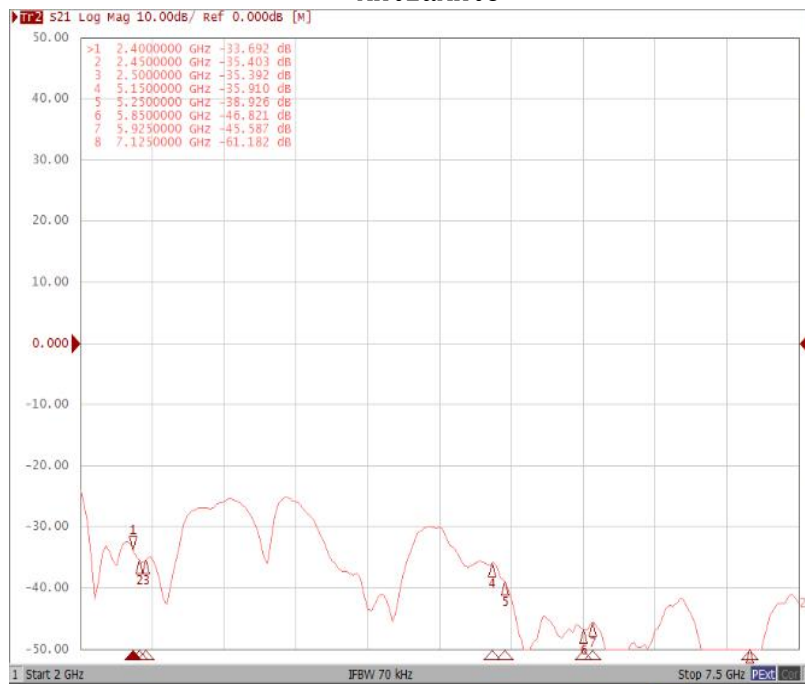
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Ant1&Ant3



Ant2&Ant3



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2-6 Environment treatment

Ant-1: WIFI (2.4G/5G/6E)

