

SPECIFICATION

SHEET FOR APPROVAL

(Revision: R: A0)

CUSTOMER(客户名称)	通力	
CS P/N(客户机种)	YY2085C	
PART NAME(品名)	WSM_3#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)	2.00006596	
DATE(日期)	2024-06-24	

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 :YY2085C_WSM_3#天线组件
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Revision history

版本	日期	状态
A0	2024-06-24	初版

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ANTENNA SPECIFICATION

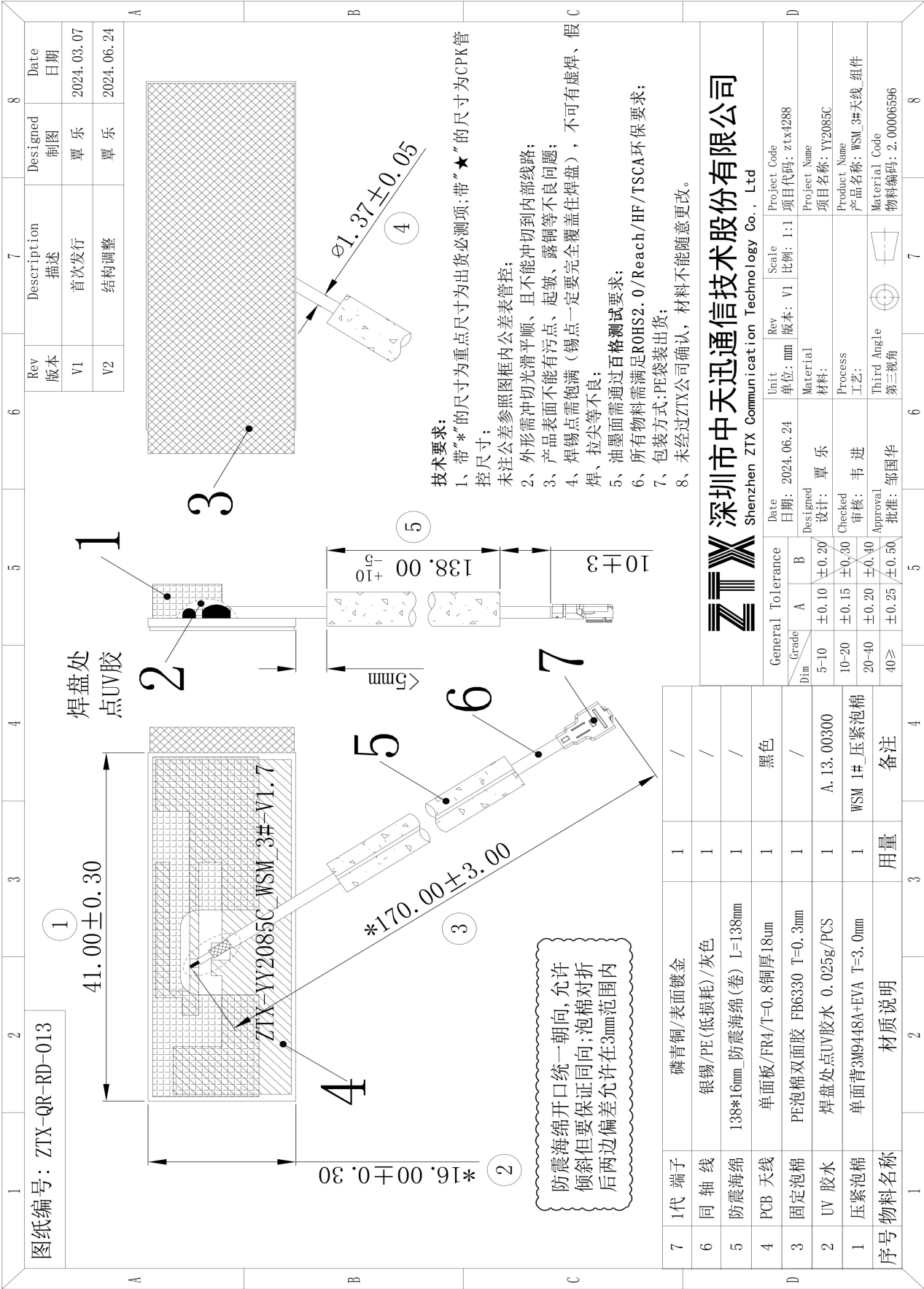
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1. Mechanical Specification

1-1 Mechanical Configuration (WSM_3#天线组件)



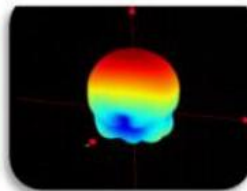
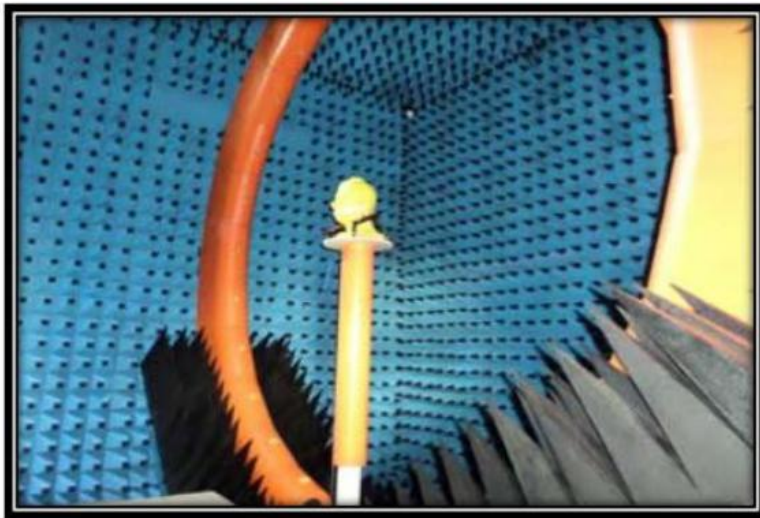
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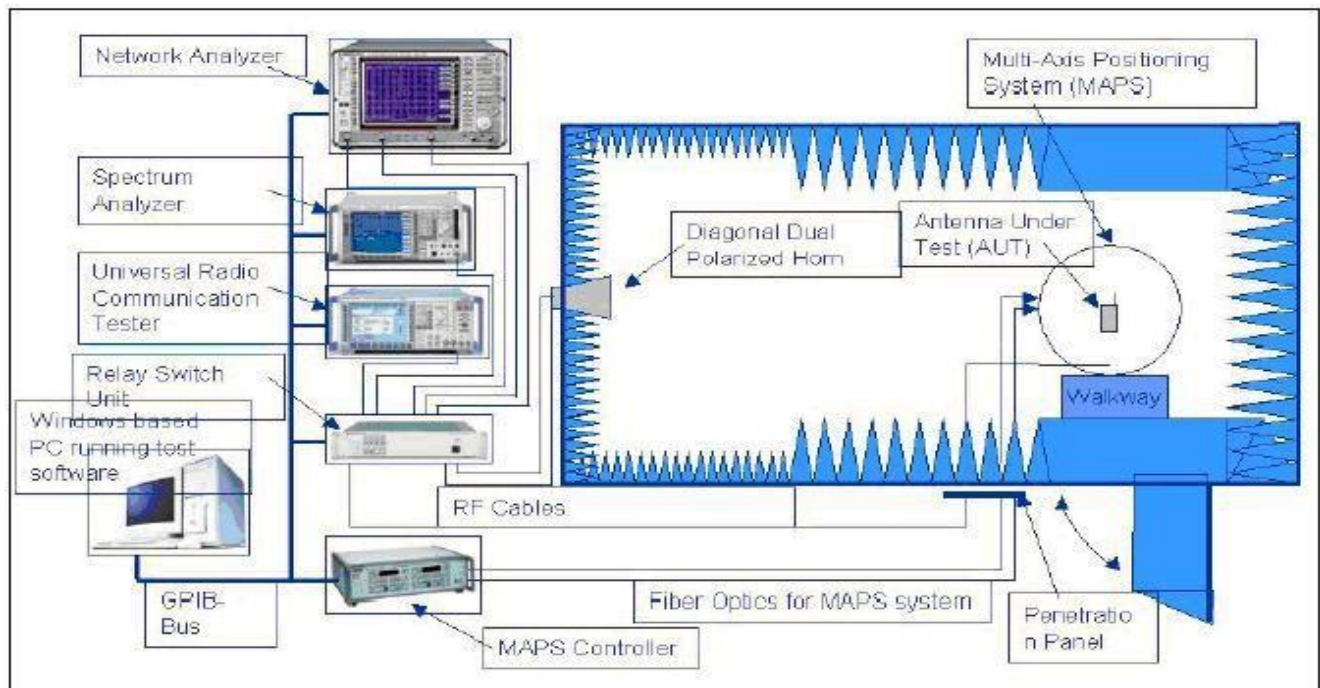
2.Test equipment



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 (1M)	1	9.4	-94
		6	9.4	-94
		11	9.3	-94
2.4G	11g (6M)	1	9.5	-92
		6	9.6	-92
		11	9.6	-92
2.4G	11n (6.5M)	1	9.5	-88
		6	9.6	-88
		11	9.6	-88
5G	11a(6M)	36	11.5	-92
		100	12.0	-92
		165	12.0	-92
5G	11n(6.5M)	36	11.5	-89
		100	11.8	-89
		165	11.8	-89

OTA数据(WIFI ANT1)					
频段	模式	CH	TRP	MAX	TIS
2.4G	11b (1M)	1	6.18	11.68	-92.13
		6	6.06	11.43	-92.35
		11	6.25	11.72	-92.21
2.4G	11g (6M)	1	6.18	11.66	-89.96
		6	6.22	11.70	-90.22
		11	6.41	11.89	-90.05
2.4G	11n (6.5M)	1	6.06	11.32	-87.21
		6	6.33	11.83	-86.76
		11	6.16	11.65	-86.83
5G	11a(6M)	36	8.72	14.78	-89.64
		100	8.49	15.13	-89.43
		165	8.39	15.02	-89.36
5G	11n(6.5M)	36	8.69	14.86	-87.11
		100	8.77	15.33	-86.76
		165	8.59	15.26	-86.82

OTA数据(WIFI ANT3)					
频段	模式	CH	TRP	MAX	TIS
2.4G	11b (1M)	1	6.43	11.92	-92.03
		6	6.46	11.99	-92.12
		11	6.62	12.03	-92.18
2.4G	11g (6M)	1	6.23	11.68	-90.01
		6	6.26	11.71	-89.91
		11	6.38	11.88	-89.86
2.4G	11n (6.5M)	1	6.31	11.82	-86.89
		6	6.26	11.79	-87.02
		11	6.11	11.66	-86.68
5G	11a(6M)	36	8.32	15.25	-89.72
		100	8.41	15.86	-90.08
		165	8.55	16.02	-89.64
5G	11n(6.5M)	36	8.42	15.31	-86.87
		100	8.55	16.01	-86.62
		165	8.56	15.98	-86.78

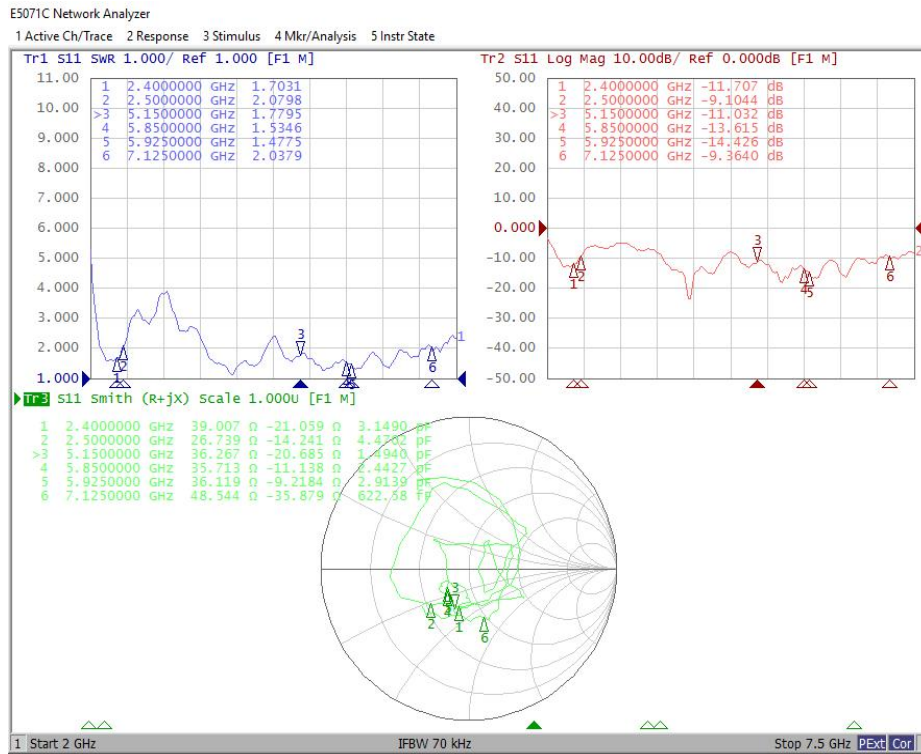
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2-2 VSWR&S11



2-3 Passive Test

Freq (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)	Freq (MHz)	Efficiency (%)	Efficiency (dB)	Gain (dBi)
2400	51%	-2.92	3.29	5925	47%	-3.28	3.08
2410	52%	-2.84	3.26	5975	50%	-3.01	3.46
2420	51%	-2.92	3.41	6025	49%	-3.10	3.15
2430	52%	-2.84	3.55	6075	48%	-3.19	2.74
2440	51%	-2.92	3.42	6125	47%	-3.28	2.75
2450	50%	-3.01	3.33	6175	42%	-3.77	2.73
2460	51%	-2.92	3.52	6225	46%	-3.37	2.66
2470	52%	-2.84	3.69	6275	45%	-3.47	3.08
2480	51%	-2.92	3.61	6325	45%	-3.47	3.01
2490	52%	-2.84	3.49	6375	44%	-3.57	3.37
2500	50%	-3.01	3.48	6425	46%	-3.37	3.69
5150	47%	-3.28	3.77	6475	48%	-3.19	3.81
5200	48%	-3.19	4.02	6525	47%	-3.28	3.99
5250	49%	-3.10	4.14	6575	42%	-3.77	4.28
5300	50%	-3.01	4.18	6625	43%	-3.67	4.19
5350	51%	-2.92	4.24	6675	44%	-3.57	4.32
5400	50%	-3.01	4.31	6725	45%	-3.47	4.37
5450	51%	-2.92	4.05	6775	46%	-3.37	4.09
5500	52%	-2.84	3.99	6825	43%	-3.67	4.08
5550	50%	-3.01	3.84	6875	44%	-3.57	4.29
5600	51%	-2.92	4.18	6925	46%	-3.37	4.16
5650	48%	-3.19	3.59	6975	45%	-3.47	4.18
5700	49%	-3.10	3.33	7025	44%	-3.57	4.11
5750	50%	-3.01	3.06	7075	43%	-3.67	4.06
5800	48%	-3.19	3.21	7125	43%	-3.67	4.17
5850	48%	-3.19	3.29				

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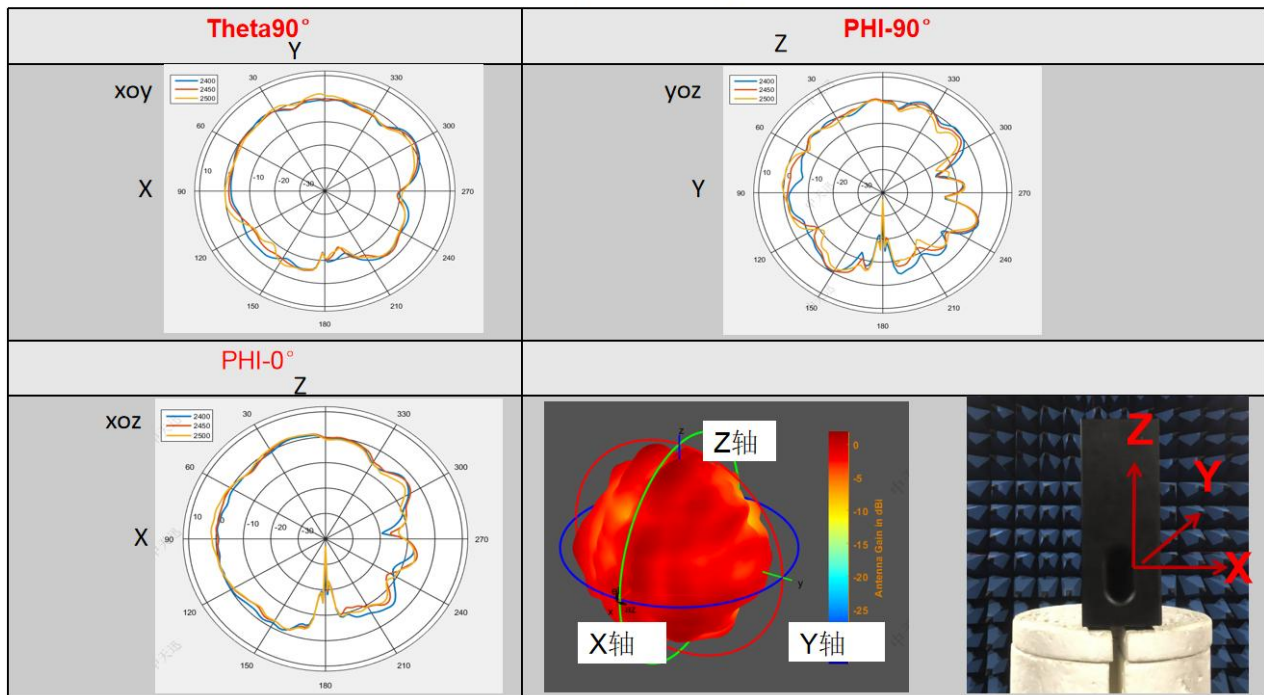
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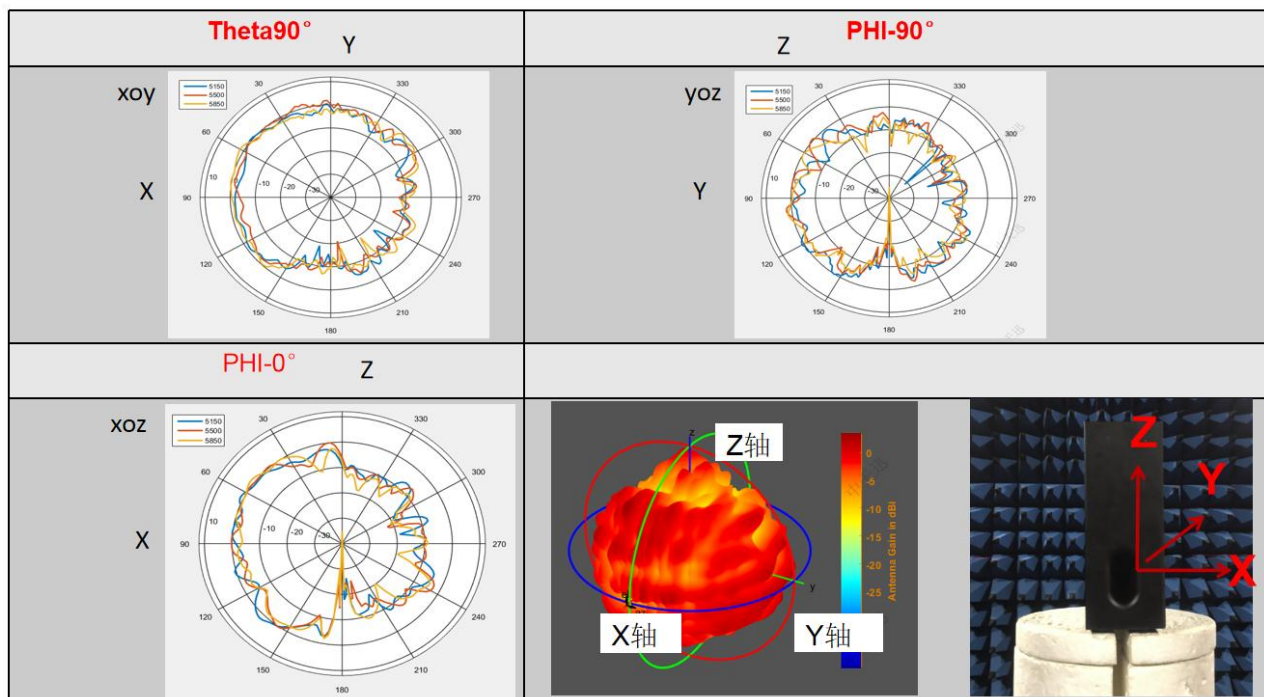
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2-4 2D/3D Radiation Pattern Results

ANT 3# (2G方向图)



ANT 3# (5G方向图)



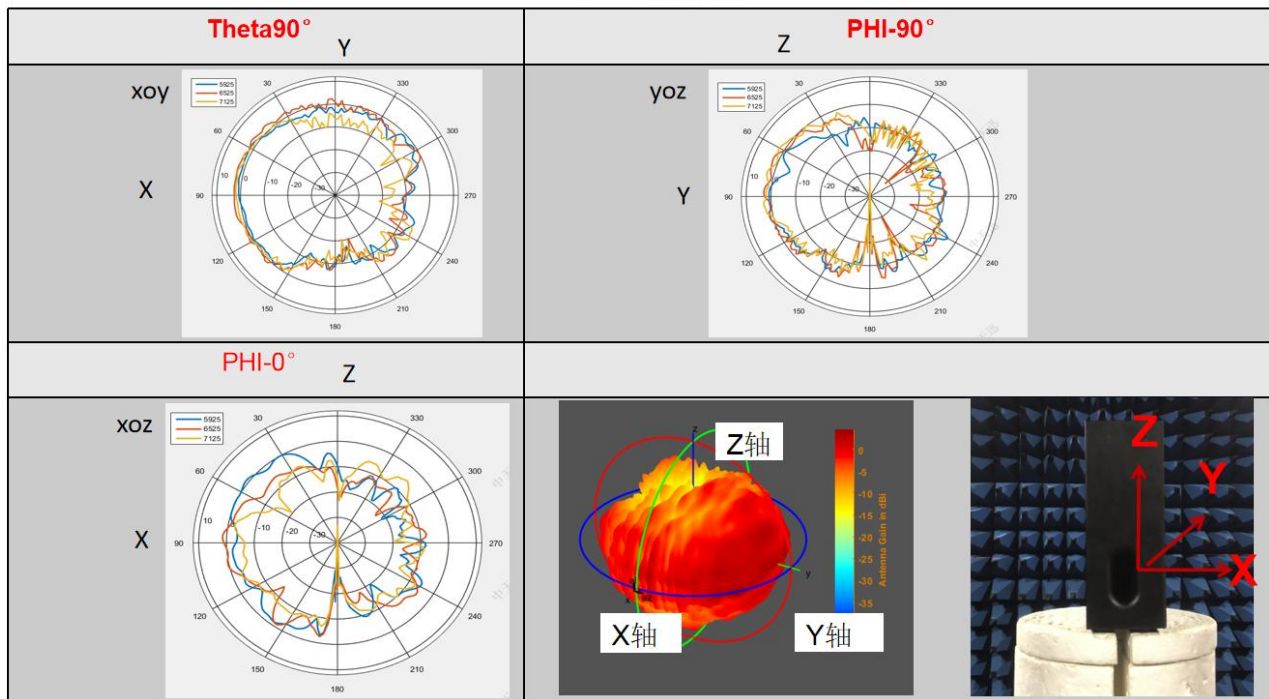
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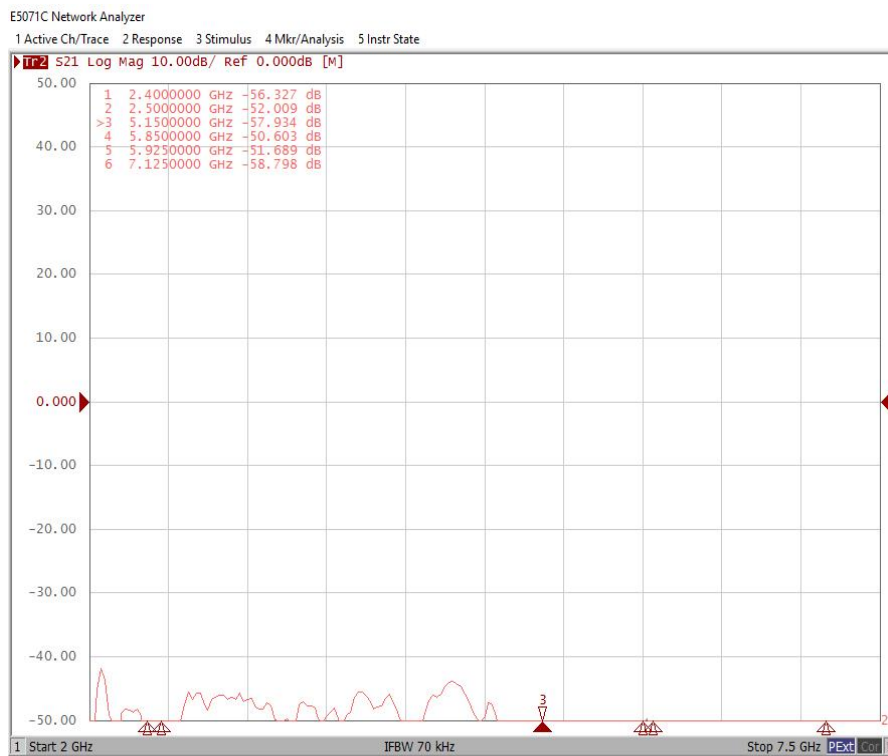
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ANT 3# (6G方向图)



2-5 insulation

ANT1&ANT2



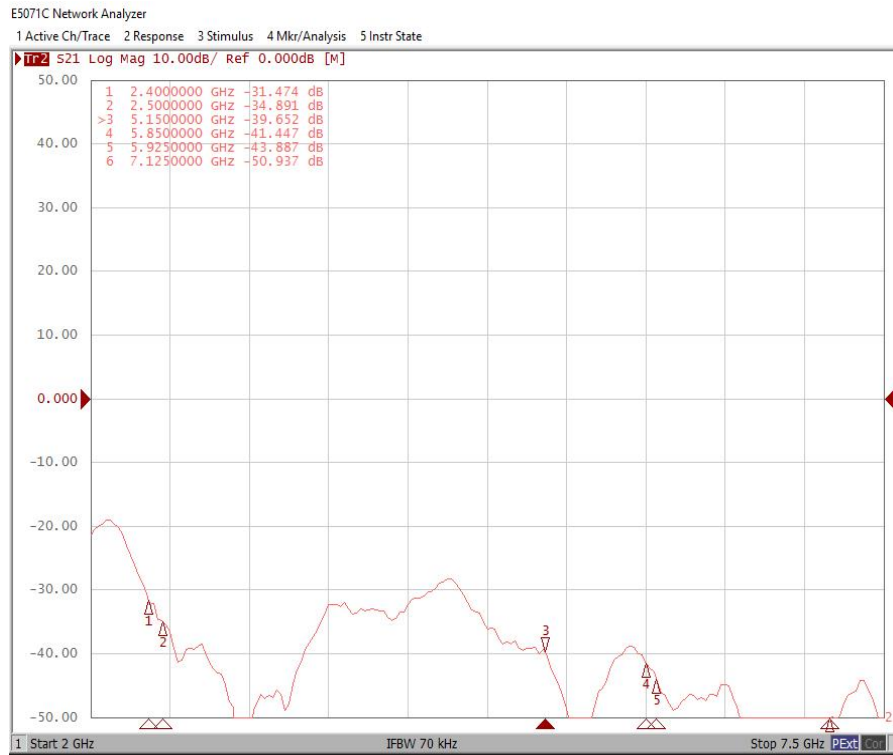
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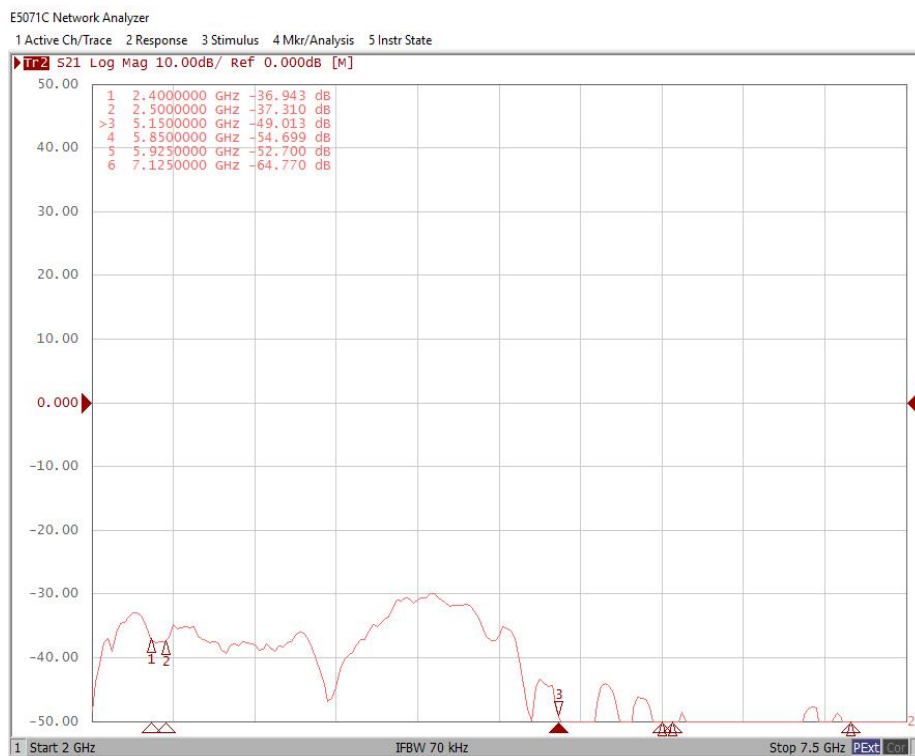
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ANT1&ANT3



Ant2&Ant3



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2-6 Environment treatment

Ant-3: WIFI (2.4G/5G/6E)



Size: 41X16.0mm