

承 认 书

Specification for approval

机 种: GPT12X- CATM1 天线

名 称: WYT-CAT-S-0018

料 号: 02.40031216

供应商: 浩泽通

日 期: 2025-08-13

承认栏			供方栏
承认盖章	研发主管	研发 / 工程	研发主管
			Austin

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1.Indication

This report summarizes the electrical performance results of the proposed Internal antenna to support GPT12X- CATM1 天线 program. The antenna is an assembly band CATM1-B1/B2/B3/B4/B5/B8/B12/B13/B17/B19/B20/B25/B26/B28/B66.



Figure 1: Proposed Antenna

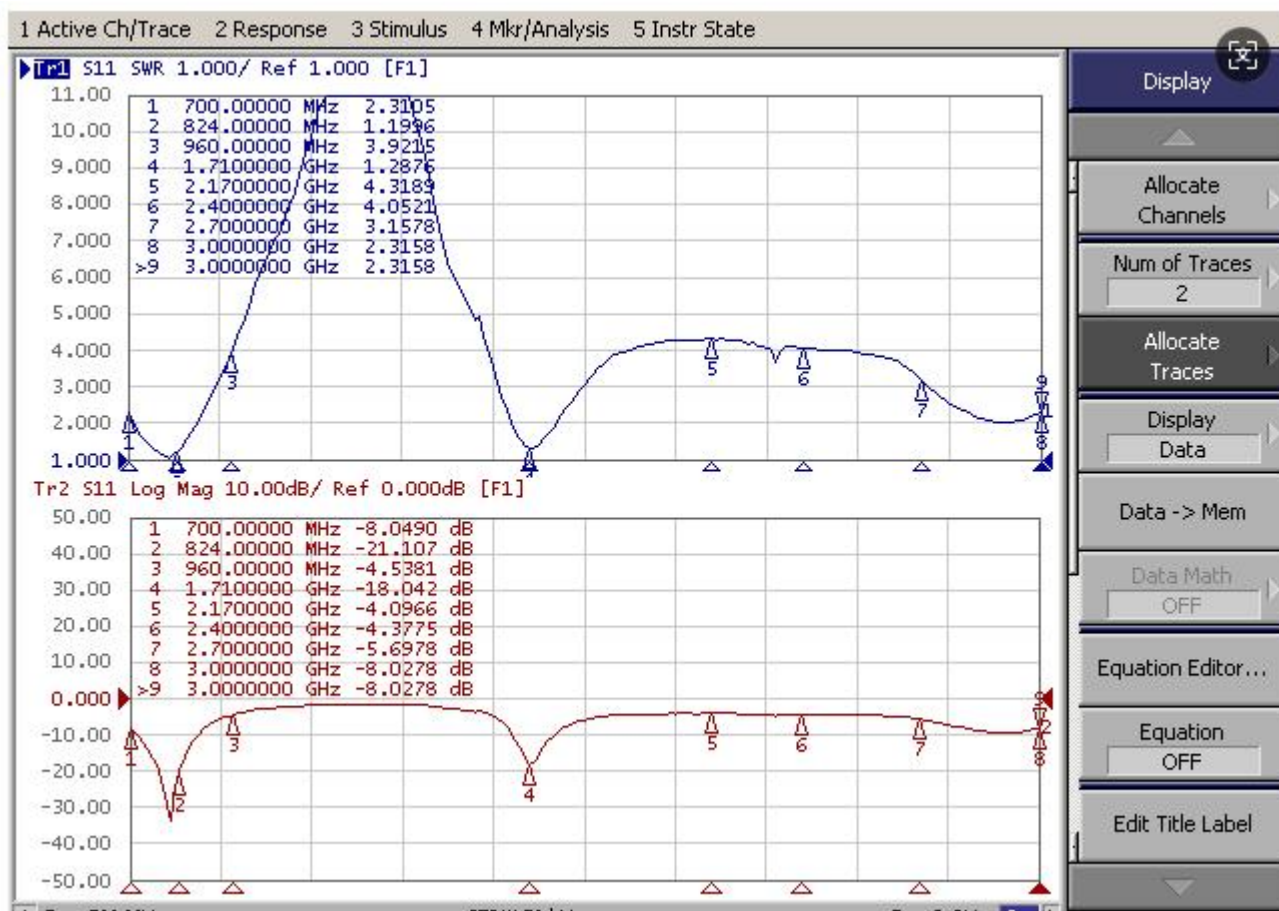
2.General Information

- This approval sheet supports for GP12X- CATM1 天线 project.
One internal antennas include in this project. This report is for the performance of CATM1 antenna.
- Antenna shape size: Meet the requirement of GP12X- CATM1 天线.
- Antenna material: Antenna material meet the requirement of GP12X- CATM1 天线.
- Adhesive performance: Adhesive performance meet the requirement of GP12X- CATM1 天线.
- Antenna performance meet the spec below:

Description	824MHz~8960 MHz	1710MHz~2170 MHz	Units
Antenna Efficiency	≥35	≥45	%
Return Loss	≤-5	≤-5	dB
S11 Input VSWR	≤3	≤3	
Feed Impedance	50 ohms		

3.Measurement information

3.1. S11



Ant

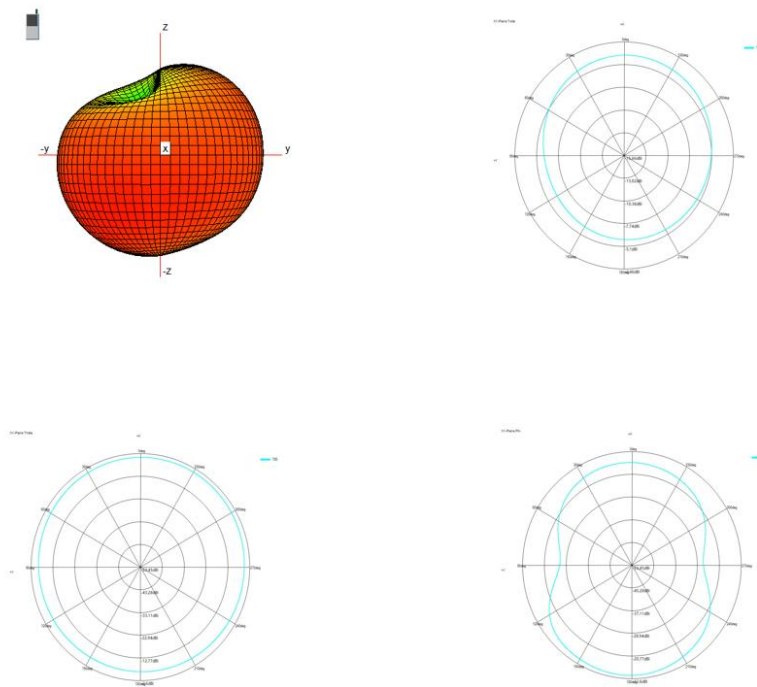
Antenna Gain Efficiency:

Freq (MHz)	Gain (dBi)	Efficiency (%)
700	-2.48	26.96
720	-2.33	28.96
740	-2.90	26.15
760	-3.10	25.95
780	-3.28	25.86
800	-3.42	25.65
820	-3.70	24.68
840	-4.14	22.65
860	-4.17	22.52
880	-4.18	22.26
900	-3.94	22.49
920	-4.37	20.42
940	-4.54	19.90
960	-5.30	16.56

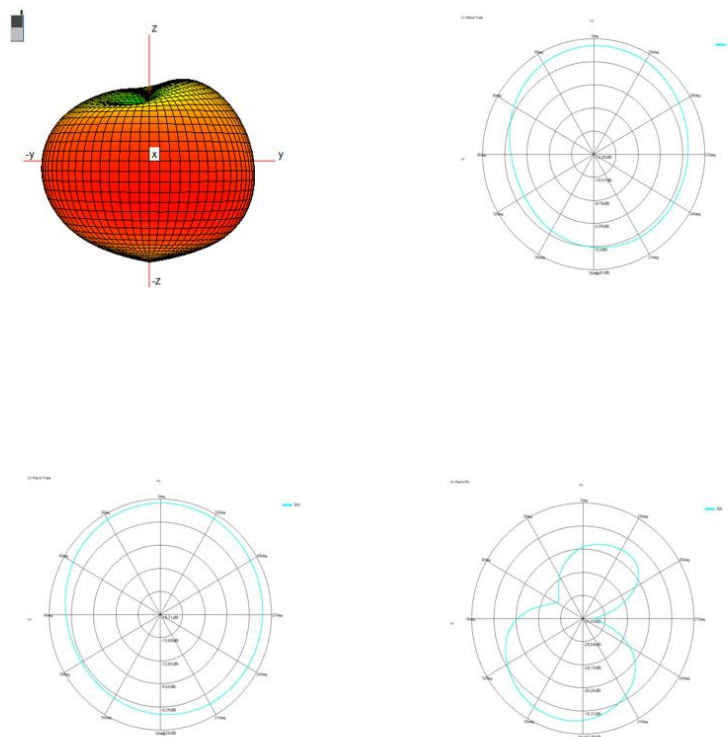
Freq (MHz)	Gain (dBi)	Efficiency (%)
1700	0.716009227	39.5463135
1750	0.8	43.7
1800	0.0	38.6
1850	-1.7	30.9
1900	-2.3	29.7
1950	-3.0	28.0
2000	-3.7	25.3
2050	-4.5	19.8
2100	-5.0	19.2
2150	-4.6	21.9
2200	-4.7	18.7
2250	-5.2	18.2
2300	-4.6	18.7

Antenna Passive Test Report:

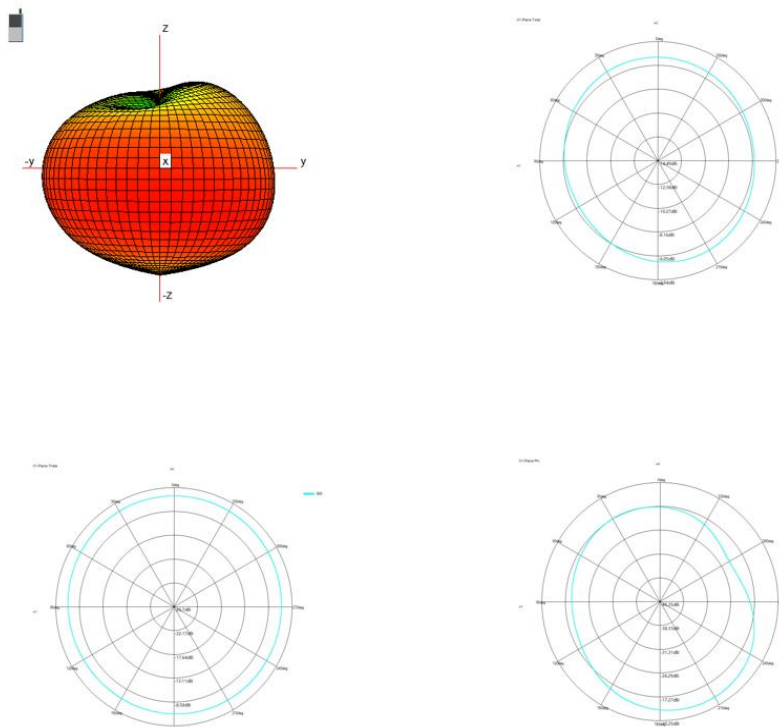
700MHZ



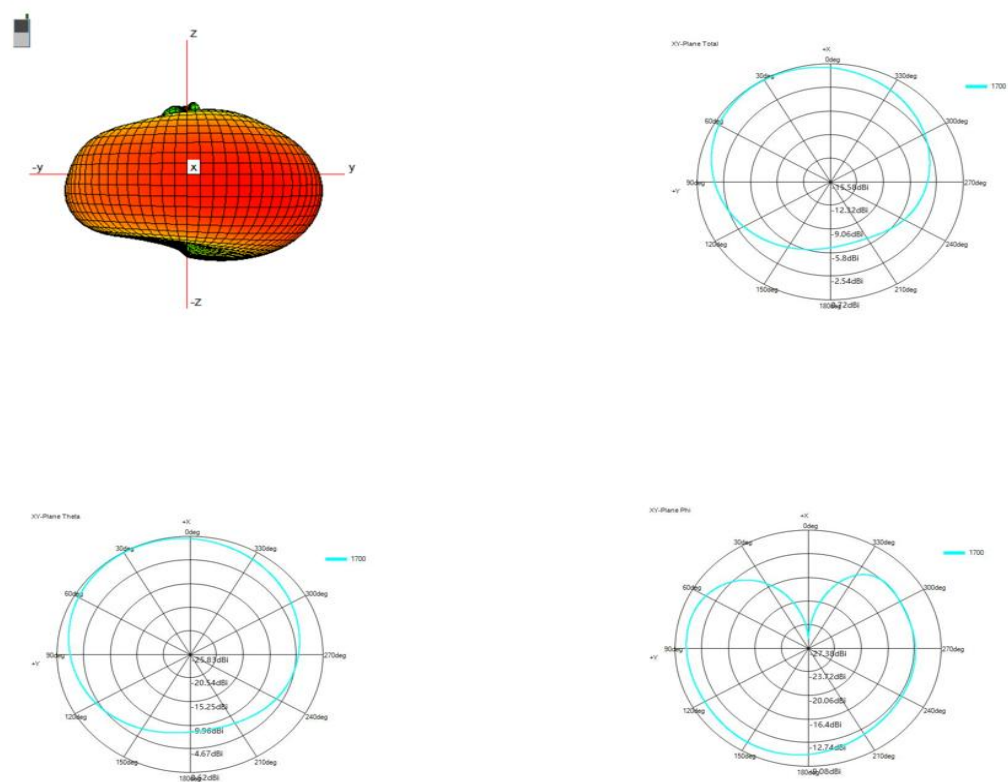
800MHZ



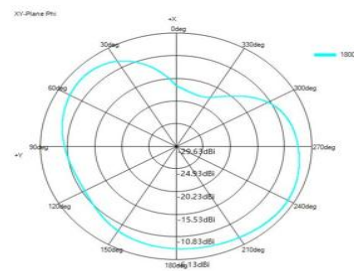
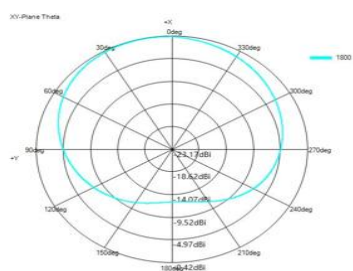
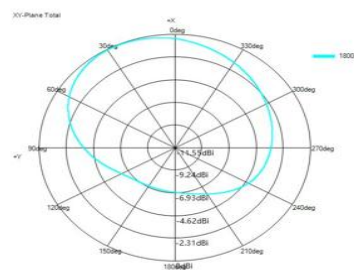
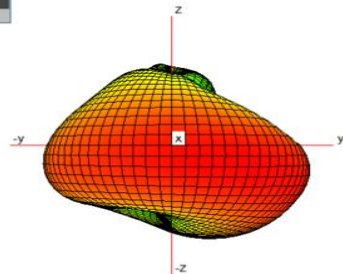
900MHZ



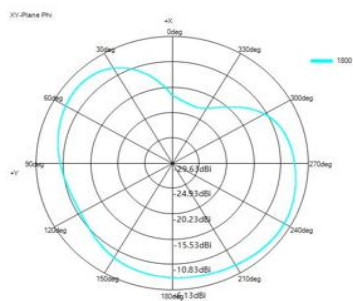
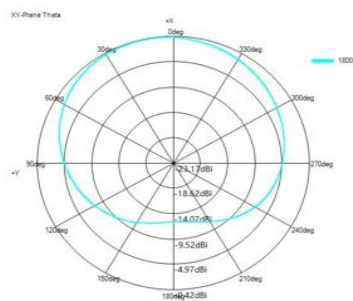
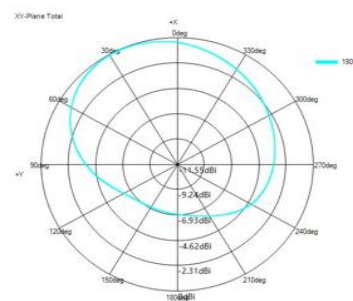
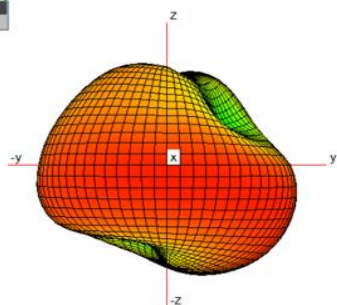
1700MHZ



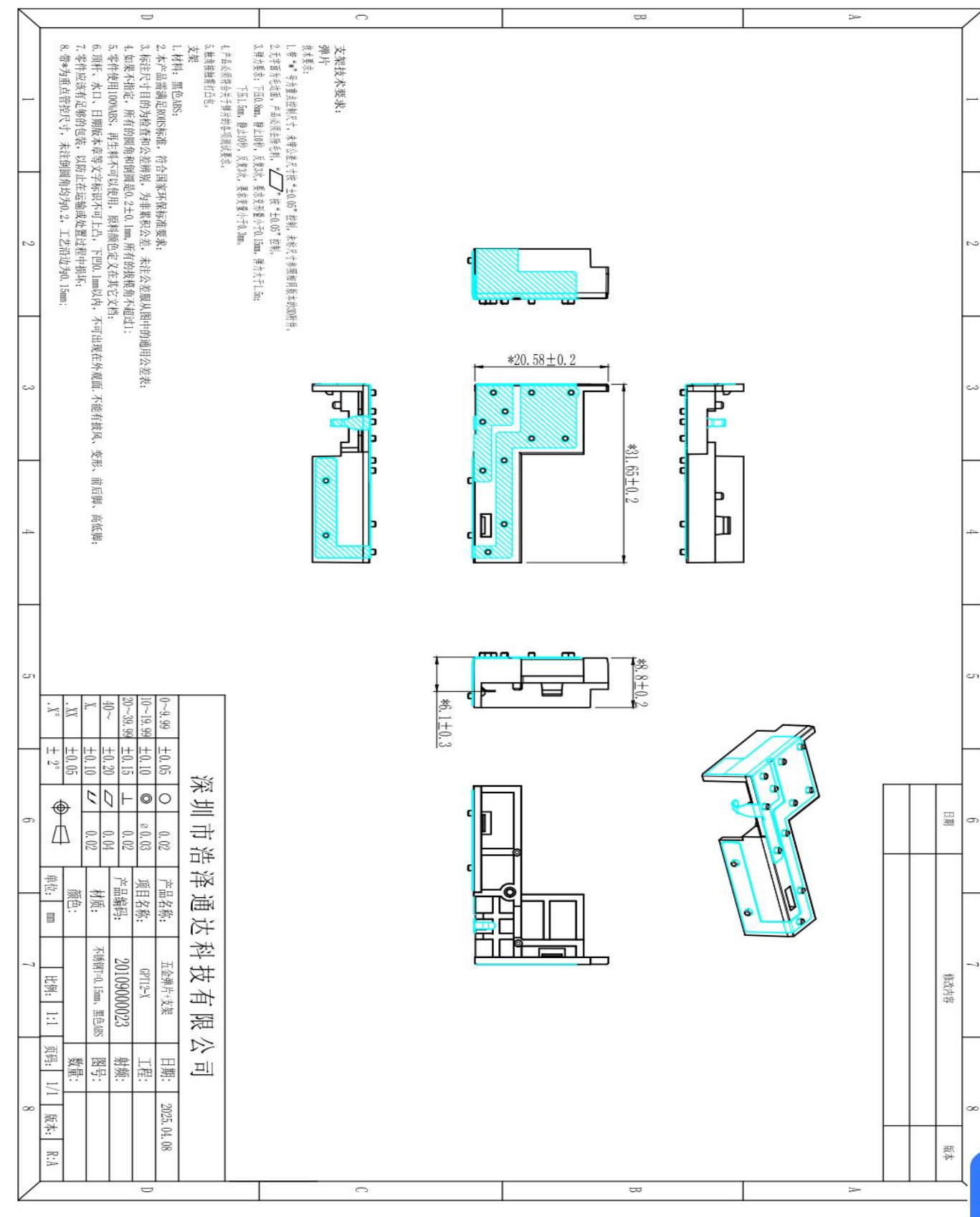
1800MHZ



1900MHZ



4. Appearance drawing



4. TRP&TIS

GPT12X 3D TEST REPORT

测试日期: 2025-5-8 单位: dBm

OTA测试数据 1										
频段	B1		B2		B3		B4		B5	
	18050	18550	18650	19150	19250	19900	20000	20350	20450	20600
TRP	18.59	17.7	18.85	19.11	17.6	17.23	18.78	19.35	15.93	16.46
TIS		-102.45		-102.34		-102.47		-102.96		-100.21
频段	B8		B12		B13		B20		B25	
	21500	21750	23035	23155	24525		24200	24400	26065	26665
TRP	15.14	14.43	16.91	18.1	16.17		15.52	14.27	18.86	18.42
TIS		-98.34		-101.21	-100.24			-102.24		-102.57

OTA测试数据 1										
频段	B26		B28		B66		B17		B19	
	26715	27015	27260	27610	66486	67086	23780	23800	24050	24100
TRP	16.28	15.92	15.64	14.65	19.31	19.45	16.12	16.54	14.11	15.47
TIS		-99.77		-100.52		-102.52		-100.85		-99.57