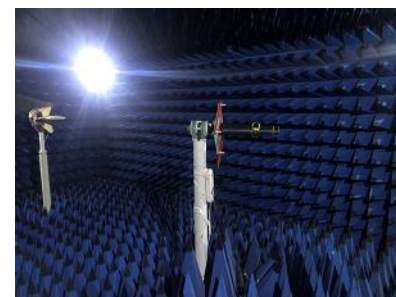


ASIoT AT-203 Antenna Test Report

Radio Frequency: He Lei

Date: 2026.7.3

Contact number: 15767667652



1

Project Commissioning Overview

2

Report Version Outline

3

Antenna passive parameters

4

Active antenna parameters

4

Environmental Treatment

4

Summary & Additional Notes

Project Commissioning Overview

type	differentiation			
template	motherboard			
Band and antenna material	main antenna	frequency range		material quality
		CATM	B1/B3/B19 824mhz-880mhz 1710mhz-1990mhz	LDS
performance requirement	Implement according to customer requirements			



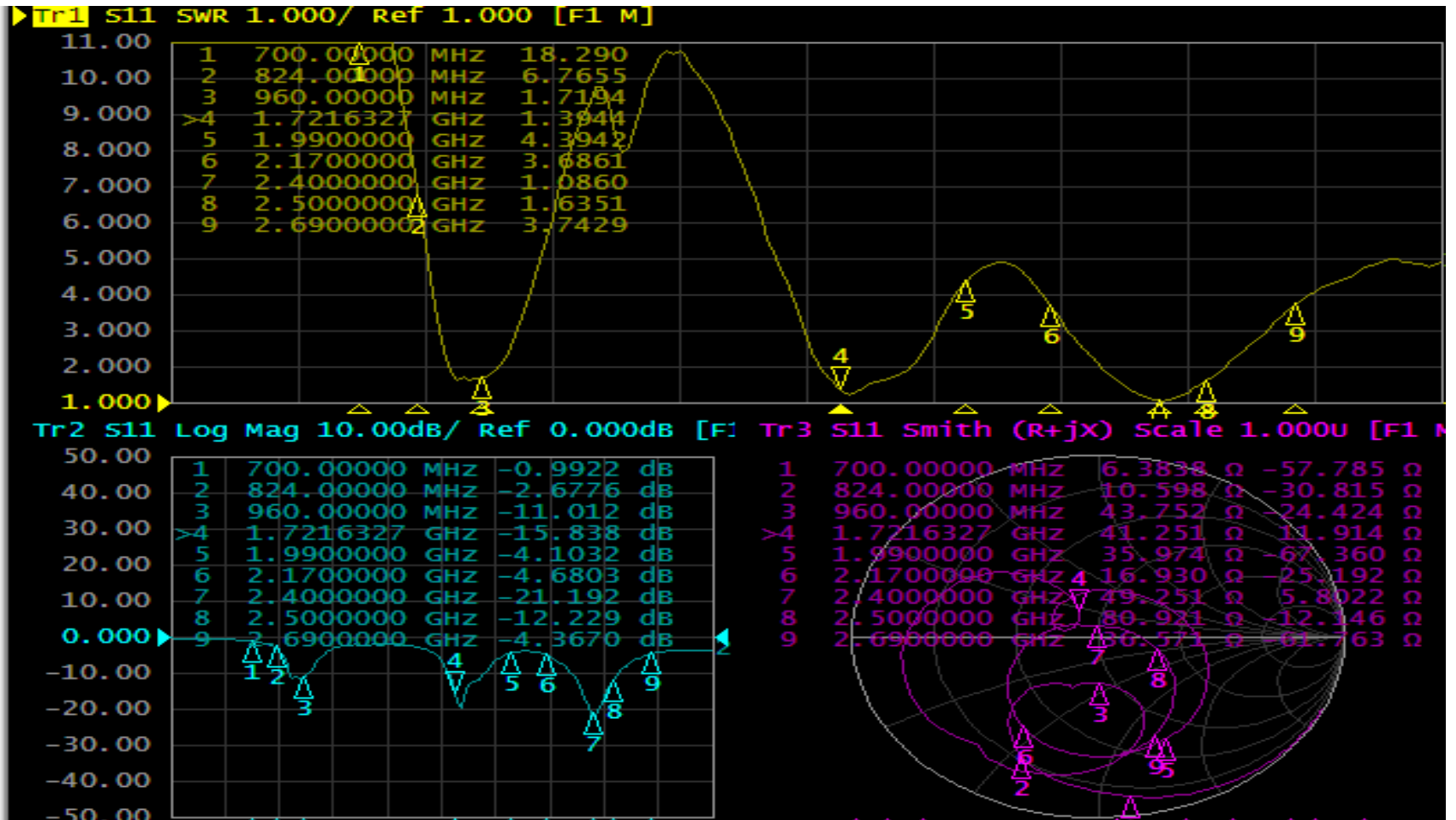
深圳市昱晟通讯设备有限公司

Yusheng Communications-equipment Co.,LTD

Report Version Outline

Report Version	Report Time	The problems addressed by this antenna development
V0. 1	2023. 8. 28	Antenna Test Report

Antenna passive standing wave pattern



Antenna passive parameters-GSM

Freq (Main Antenna Efficiency)	Effi (%)	Gain (dbi)
700MHZ	12	0.04
730MHZ	14	0.09
760MHZ	15	0.11
790MHZ	17	0.18
800MHZ	27	0.23
830MHZ	33	0.29
860MHZ	38	0.68
890MHZ	36	0.57
910MHZ	32	0.43
1700MHZ	36	0.35
1750MHZ	39	0.47

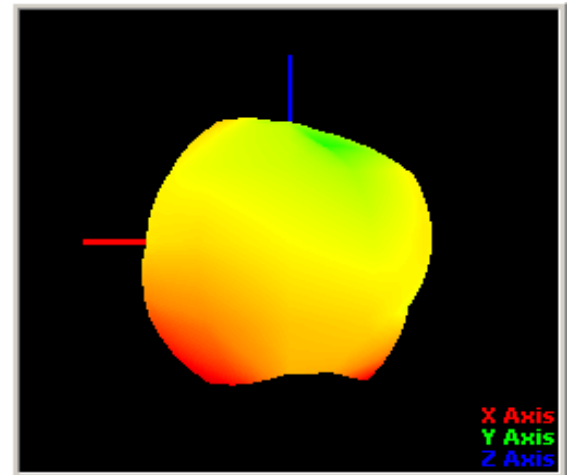
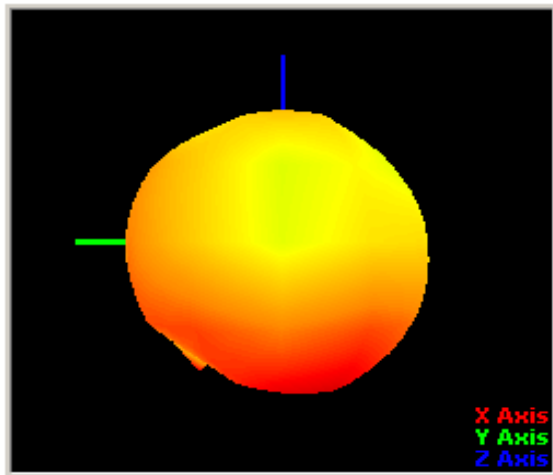
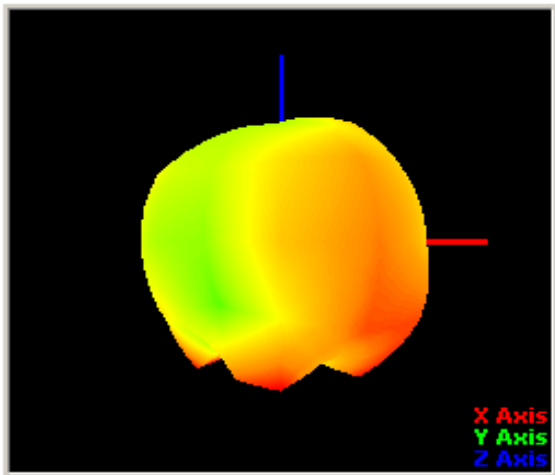
Freq (Main Antenna Efficiency)	Effi (%)	Gain (dbi)
1800MHZ	42	0.52
1850MHZ	43	0.59
1900MHZ	45	0.62
1950MHZ	43	0.58
2000MHZ	41	0.51
2050MHZ	44	0.67
2100MHZ	45	0.75
2150MHZ	43	0.61

Active antenna parameters

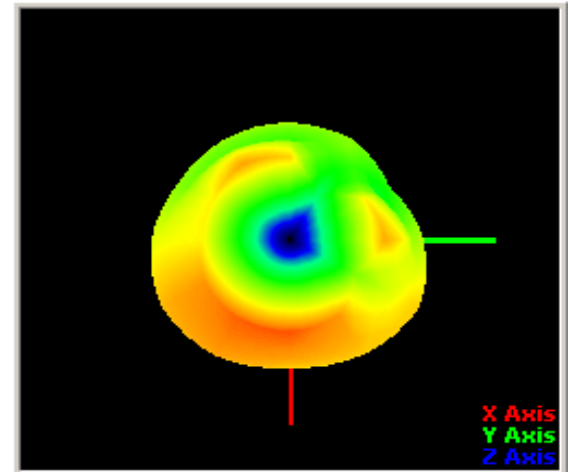
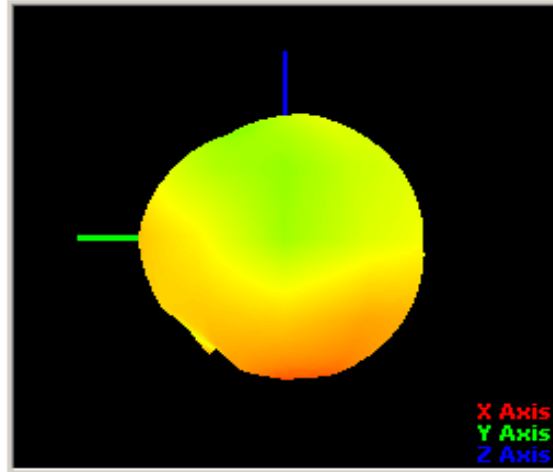
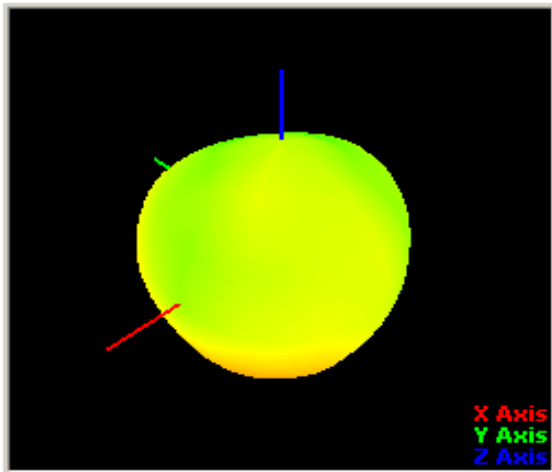
Test	CATM B1			CATM B3		
Result	18050	18300	18550	19250	19575	19900
TRP (dBm)	18. 24	18. 11	18. 47	17. 68	18. 25	18. 41
TIS (dBm)			-91. 64			-94. 89

Test	CATM B19			NB B8		
Result	20800	21100	21400	21500	21650	21750
TRP (dBm)	15. 67	15. 88	16. 32	17. 14	16. 42	15. 87
TIS (dBm)			-88. 35			-89. 32

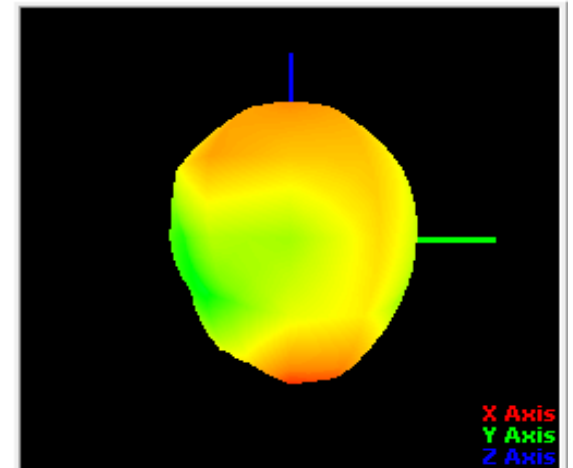
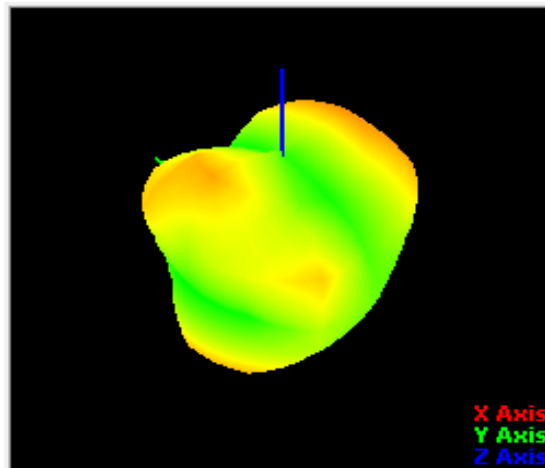
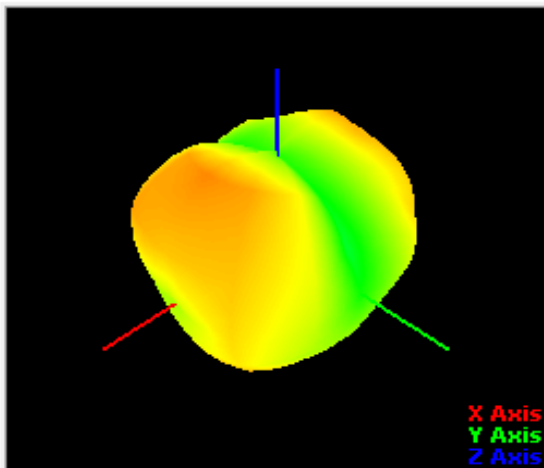
Antenna passive parameter Band1 (figure file: pattern diagram/field pattern diagram)



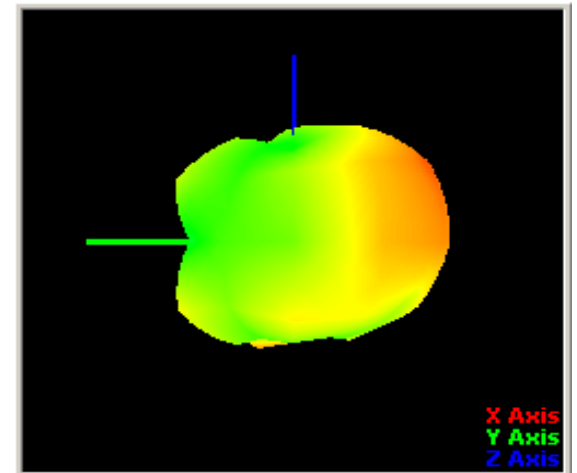
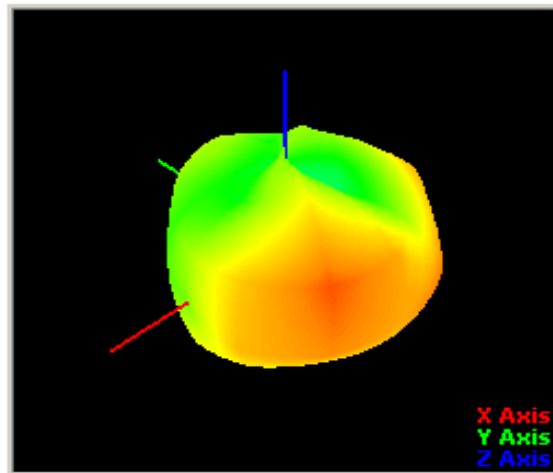
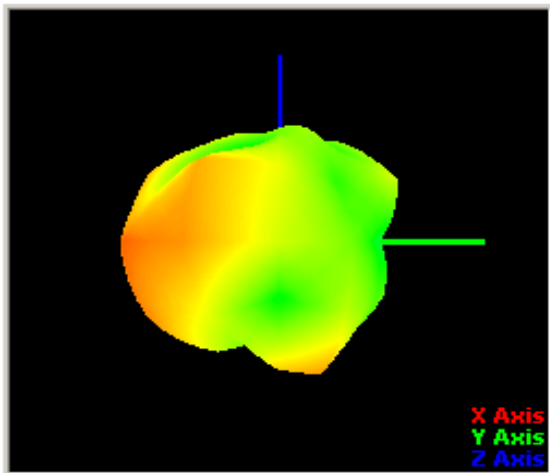
Antenna passive parameter Band3 (figure file: pattern diagram/field pattern diagram)



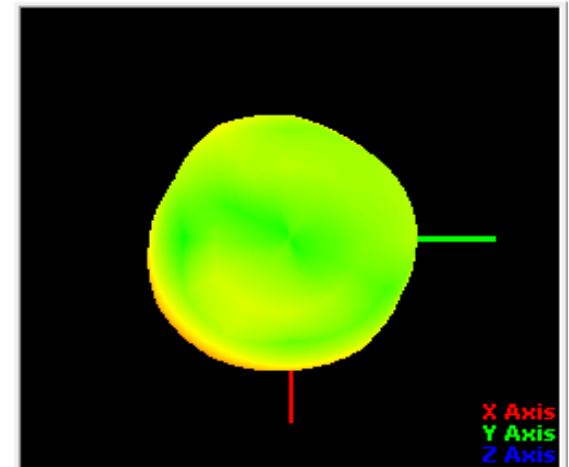
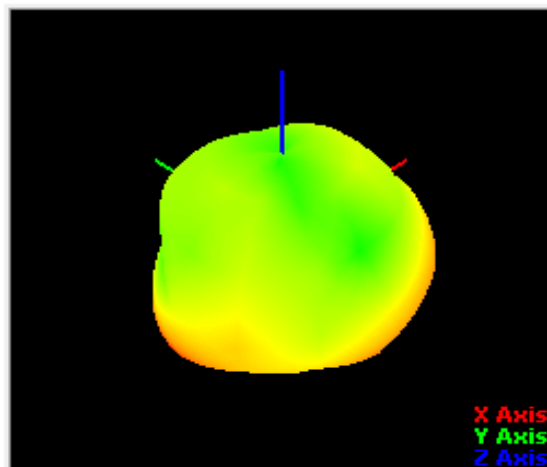
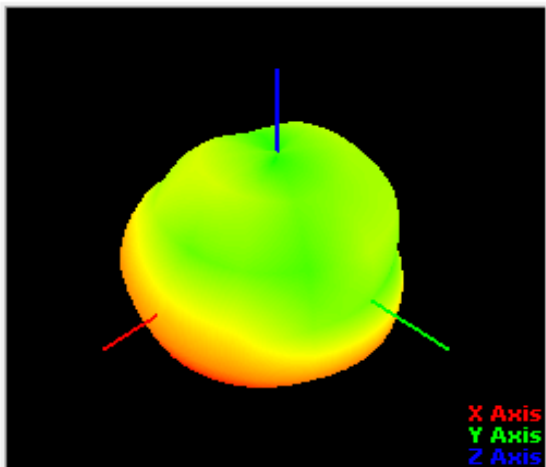
Antenna passive parameter Band12/28 (figure file: pattern diagram/field pattern diagram)



Antenna passive parameter Band19 (figure file: pattern diagram/field pattern diagram)



Antenna passive parameter Band71 (figure file: pattern diagram/field pattern diagram)



Thank you!



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