

NT2425 Battery compartment - Antenna commissioning report

client:	NT
project name:	24253
Material category:	On-board antenna
edition:	B1_V3
date:	2025.2.14
engineer	

Shenzhen Cheng Technology Co., Ltd

Address: 801 F, Building A, Jin Fulai Building, Dabao Road, Baoan District,
Shenzhen

Fax: 0755-8322 9053

<http://www.szqiancheng.cn/>

catalogue

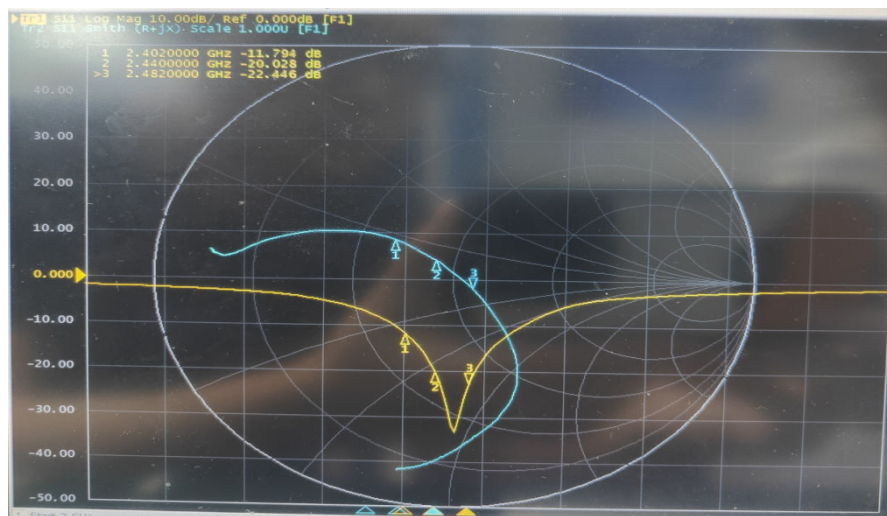
一： Antenna passive test report	3
二、 OTA test data	5

一：Antenna passive test report

Network analyzer(5071B)



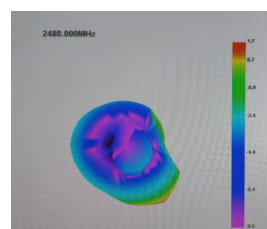
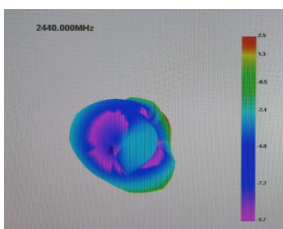
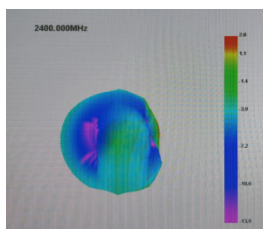
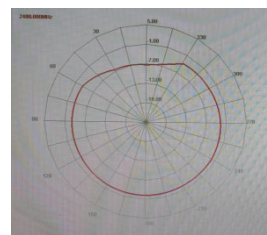
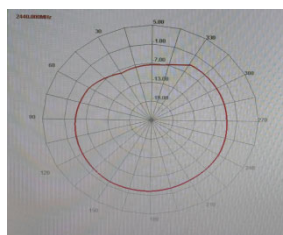
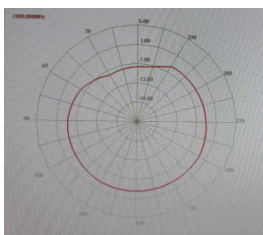
Passive parameters of BT antenna



Antenna passive efficiency

Frequency point MHz	Gain (dBi)	Efficiency (db)	Efficiency (%)
2400	0.82	-6.04	24.89
2410	0.45	-6.1	24.54
2420	0.16	-5.74	26.68
2430	0.2	-5.13	30.17
2440	-0.11	-5.25	29.76
2450	-0.13	-5.67	27.12
2460	-0.37	-6.41	24.3
2470	-0.63	-6.72	21.29
2480	-0.78	-6.55	22.13

BT Antenna passive direction diagram



二、OTA test data

	Free space state			Simulated hand condition		
channel	0	19	39	0	19	39
Frequency (MHz)	2402	2441	2480	2402	2441	2480
TRP (dBm)	-1.25	-0.08	0.41	-2.55	-1.38	-0.89
TIS (dBm)	-89.48	-90.13	-90.07	-87.68	-89.85	-89.43