
Antenna Reports

Issue date: 2025/05/14

Antenna Summary Table

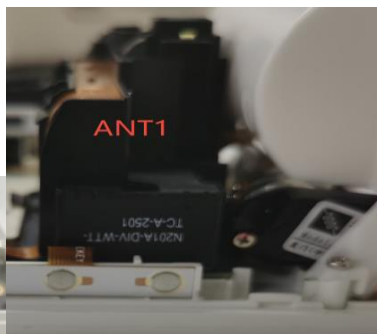
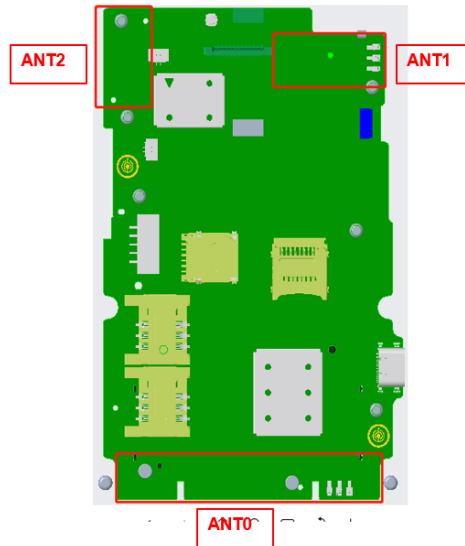
Check items	Information
Provided by lab	
Manufacturer/ Brand name	Shenzhen Wilchuang Technology and Communication Co., LTD
Manufacturer address	Floor 1, floor 2, floor 3, No.8, Tongfu Estate Industrial Zone, Xinshi Community, Dalang Street, Longhua District, Shenzhen
Model name (Part number)	N201A
Test environment	Tinno XI'An RD team Lab with GTS2800 chamber
Test equipment software	GTS MaxSign-Libra
List of calibrated test equipment	GTS2800 with calibrated date: 2024/11/16, Due date: 2025/11/15 Anritsu MT8821C with calibrated date: 2024/8/28, Due date: 2025/8/27
Antenna detail info.	Show WLAN/BT/ WWAN ANT0:LMHB antenna(600~960MHz,1.7~2.7GHz) , PIFA type antenna. ANT1:LMHB antenna(600~960MHz,1.7~2.7GHz) , PIFA type antenna. ANT2:WIFI antenna(2400~2500,5150~5850) , PIFA type antenna.
Antenna gain test data	Included antenna frequency, gain pattern

Note: Antenna gain was measured in the anechoic chamber, 3D scan was exercised, and the highest numbers are reported in this document.

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1. *Antenna Placement*



Item	Band	Band Detail	Function
ANT0 (CR2114GLA)	LB	GSM 850/900	TX&RX0
		WCDMA B5/8	
		LTE B5/8/12/17/19/20/26/28	
	MB	GSM 1800/1900	TX&RX0
		WCDMA 1/2/4	
		LTE B1/2/3/4/25/66	
	HB	LTE B7/38/40/41	TX&RX0
ANT1 (CR2114GLA)	LB	GSM 850/900	RX1
		WCDMA B5/8	
		LTE B5/8/12/17/19/20/26/28	
	MB	GSM 1800/1900	RX1
		WCDMA 1/2/4	
		LTE B1/2/3/4/25/66	
	HB	LTE B7/38/40/41	RX1
ANT2	WIFI/GPS L1/BT	2.4G/5G WIFI(TRX)/BT/GPS L1	TRX

2.TX Antenna Peak Gain

Test / Position	Free Space				
bands	Frequency	TX Antenna Peak Gain			
		Ant 0			/
GSM 850	824-849MHz	1.36			/
GSM 900	880- 915MHz	0.97			/
DCS 1800	1710-1785MHz	3.01			/
PCS 1900	1850-1910MHz	1.88			/
WCDMA Band 1	1922-1980MHz	0.77			/
WCDMA Band 2	1850-1910MHz	1.88			/
WCDMA Band 4	1710-1755MHz	3.78			/
WCDMA Band 5	824-849MHz	1.36			/
WCDMA Band 8	880 - 915MHz	0.92			/
LTE Band 1	1920-1980MHz	0.77			/
LTE Band 2	1850-1910MHz	1.88			/
LTE Band 3	1710-1785MHz	3.78			/
LTE Band 4	1710-1755MHz	3.78			/
LTE Band 5	824-849MHz	1.36			/
LTE Band 7	2500-2570MHz	2.72			/
LTE Band 8	880 - 915MHz	0.92			/
LTE Band 12	699-716MHz	1.43			/
LTE Band 17	704-716MHz	0.78			/
LTE Band 19	830-845MHz	1.4			/
LTE Band 20	790-820MHz	1.36			
LTE Band 25	1850-1915MHz	1.88			/
LTE Band 26	814-849MHz	1.36			/
LTE Band 28	700-750MHz	1.86			/
LTE Band 38	2570-2620MHz	3.25			/
LTE Band 40	2300-2400MHz	0.46			/
LTE Band 41	2500-2700MHz	3.25			/
LTE Band 66	1710-1780MHz	3.78			/

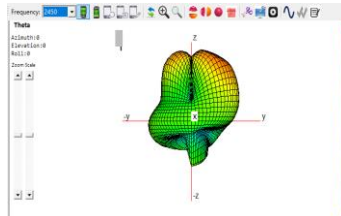
Test / Position	Free Space				
bands	Frequency	TX Antenna Peak Gain			
		Ant 2			
WiFi 2.4G	2412-2462MHz	1.96			
WiFi 5G	5150~5250MHz	-1.32			
WiFi 5G	5250~5350MHz	-0.52			
WiFi 5G	5470~5725MHz	0.55			
WiFi 5G	5725~5850MHz	0.8			

2. Gain Plots

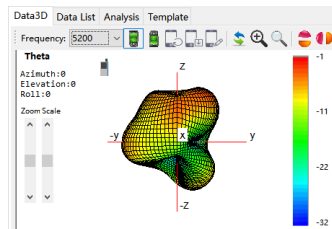
3.

ANT2

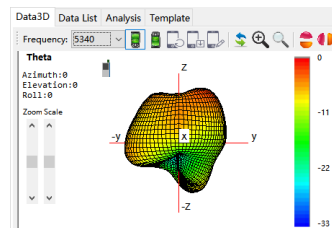
WIFI 2.4G (2450 MHz)



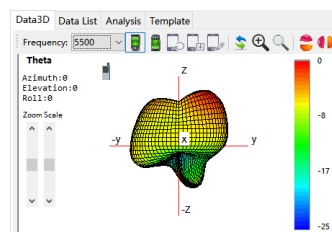
WIFI 5G (5200 MHz)



WIFI 5G (5350 MHz)

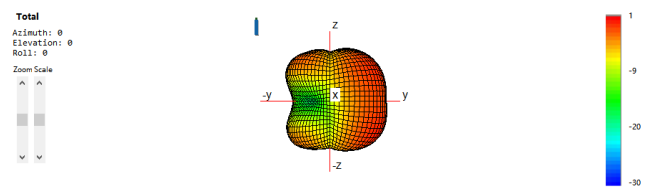
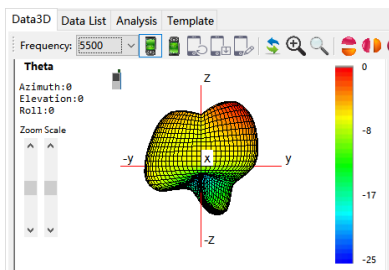


WIFI 5G (5500 MHz)

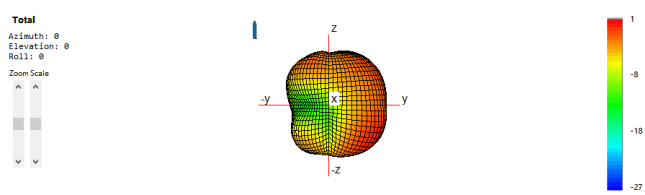


WIFI 5G (5800 MHz)

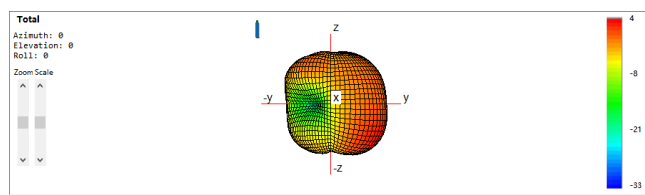
ANT0



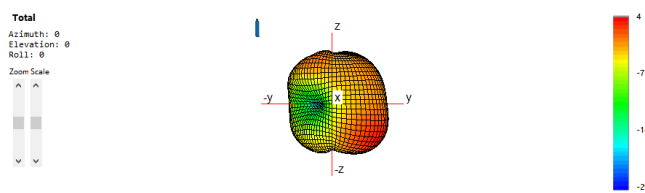
LTE B1



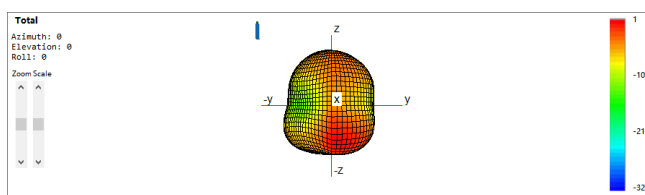
LTE B2



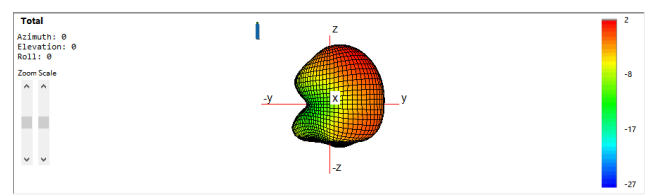
LTE B3



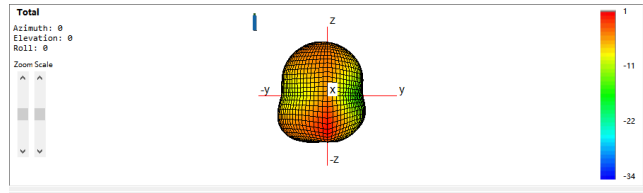
LTE B4



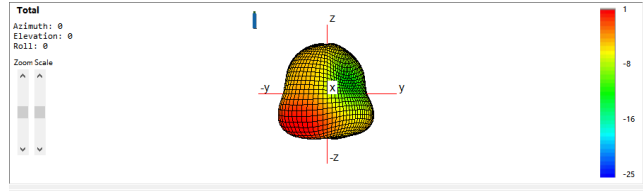
LTE B5



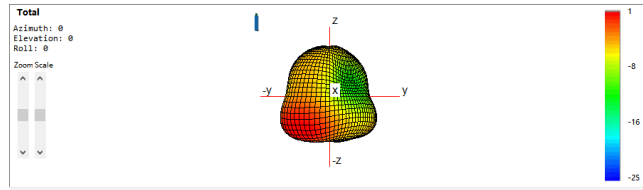
LTE B7



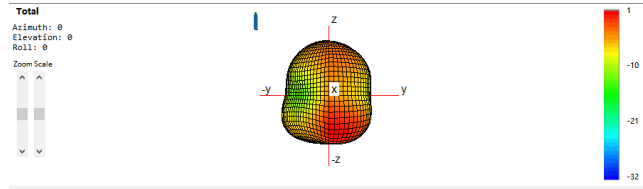
LTE B8



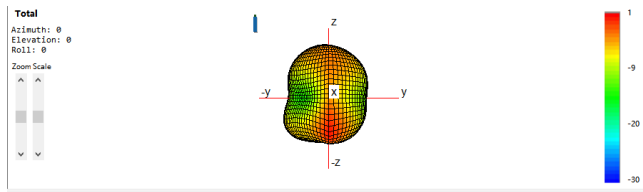
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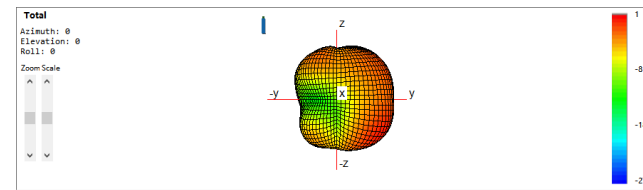
LTE B17



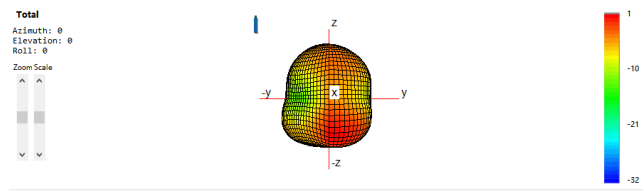
LTE B19



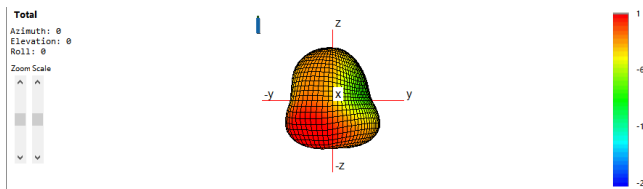
LTE B20



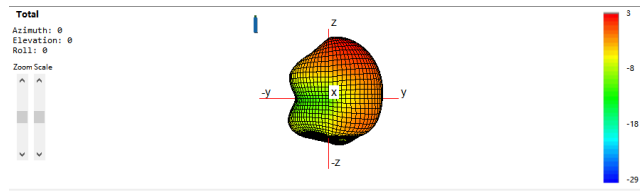
LTE B25



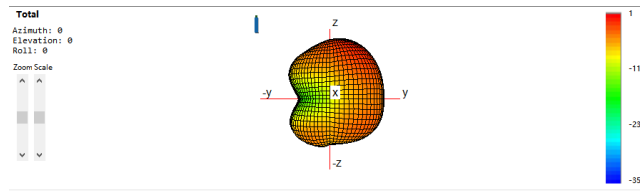
LTE B26



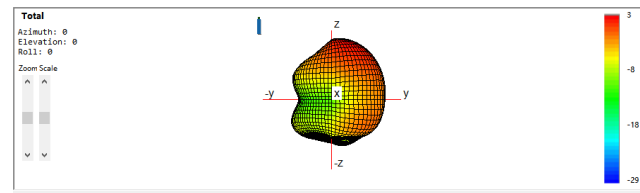
LTE B28



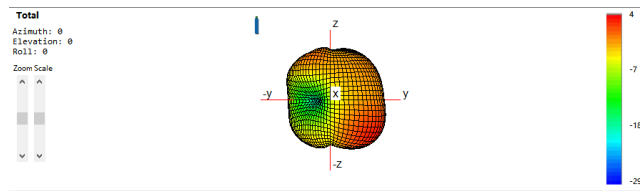
LTE B38



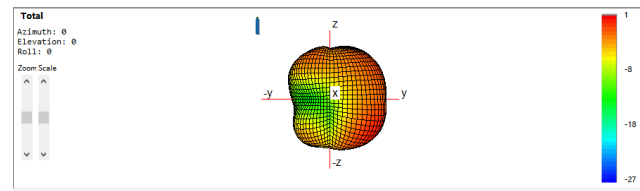
LTE B40



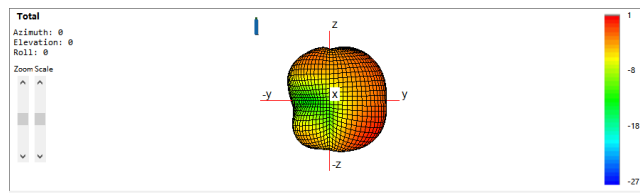
LTE B41



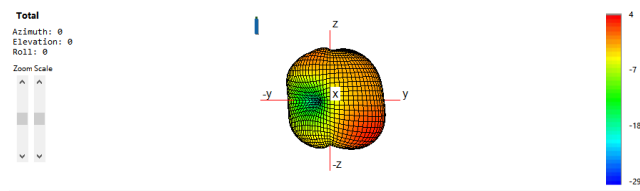
LTE B66



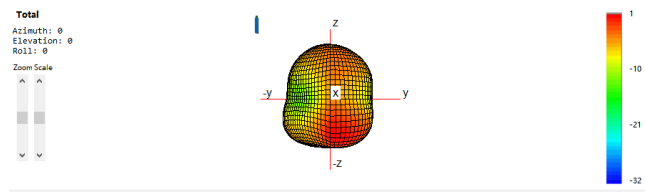
WCDMA 1



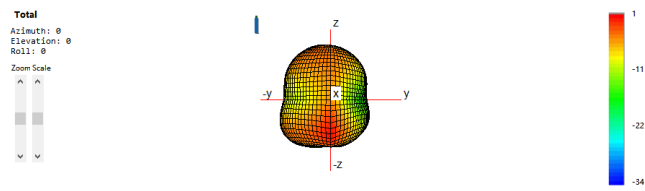
WCDMA 2



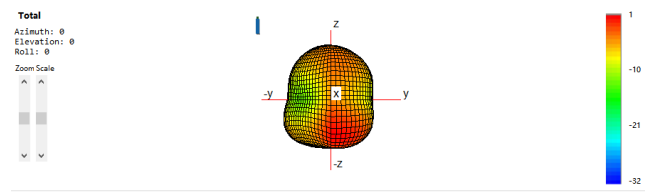
WCDMA 4



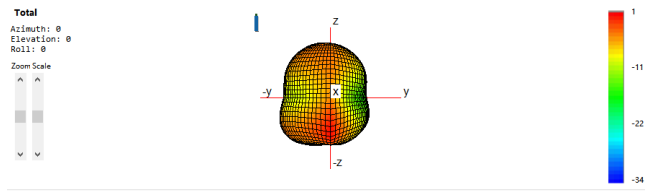
WCDMA 5



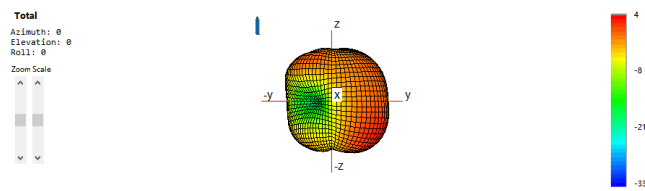
WCDMA 8



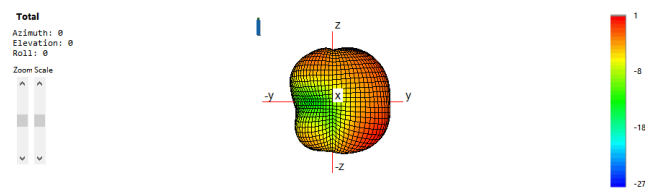
GSM 850



GSM 900



GSM 1800



GSM 1900

4. Test setup

