

ANTENNA INFORMATION

OEM	Lenovo		
ODM	Huaqin Technology Co.,Ltd		
Platform model name	Lenovo Duet 13M9611		
platform	MTK8196		
Platform type (ex: regular NB, convertible PC, AIO...etc)	Convertible PC		
SAR minimum separation (mm)	FCC (1g)	0mm	
	ISED (1g)	0mm	
	ISED (10g)	0mm	

Antenna manufacturer	Company name	INPAQ
	Address	INPAQ TECHNOLOGY(SUZHOU) CO, LTD. No. 5, Chunqiu Road, Huangdai Town, Xiangcheng District, Xiangcheng District, Suzhou City, Jiangsu Province, China.
Test location	Company name	INPAQ
	Address	INPAQ TECHNOLOGY(SUZHOU) CO, LTD. No. 5, Chunqiu Road, Huangdai Town, Xiangcheng District, Xiangcheng District, Suzhou City, Jiangsu Province, China.
Test Personnel	Name(Full name)	Yong_xiong
	E-mail	Yong_xiong@inpaqpg.com
	Tel/Mobile	+86-15879171213
Testing date		Apr 15th, 2026

Antenna Part number	Main	WA-P-LELE-04-098
	Aux	WA-P-LELE-04-099
Antenna type (ex: PIFA, Dipole...etc)	PIFA	

Antenna Peak gain w/ cable loss (dBi)*											
		2.4GHz 2400-2483.5 MHz	5.2GHz 5150-5250MHz	5.3GHz 5250-5350MHz	5.6GHz 5470-5725MHz	5.8GHz 5725-5850MHz	5.9GHz 5850-5895MHz	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main	Peak gain	-0.4	-0.3	-1.22	-0.85	-1.72	-1.81	0.03	0.14	1.81	1.53
	cable loss	0.28	0.36	0.38	0.42	0.43	0.44	0.53	0.55	0.58	0.62
Aux	Peak gain	1.86	-0.32	-1.79	-0.77	-2.16	-2.22	0.63	0.3	0.42	-0.15
	cable loss	0.8	1.21	1.25	1.28	1.30	1.32	1.69	1.76	1.80	1.85

Cable Assembly Part Number and Information					
	Cable PN	Cable length(mm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	SY113L/50-065,Black SY113L/50-066,White	65, Black 91, White	1.13, Black 1.13, White	50	MHF-B13L-N-01

Aux	SY113L/50-067,Gray SY113L/50-066,White	273 ,Gray 84.1,White	1.13,Gray 1.13,White	50	MHF-B13L-N-01
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* 3D Antenna Peak Gain required being test in system basis.

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Revision #	Revision Details	Issued Date
Rev. 00	First Issue	2026.04.15

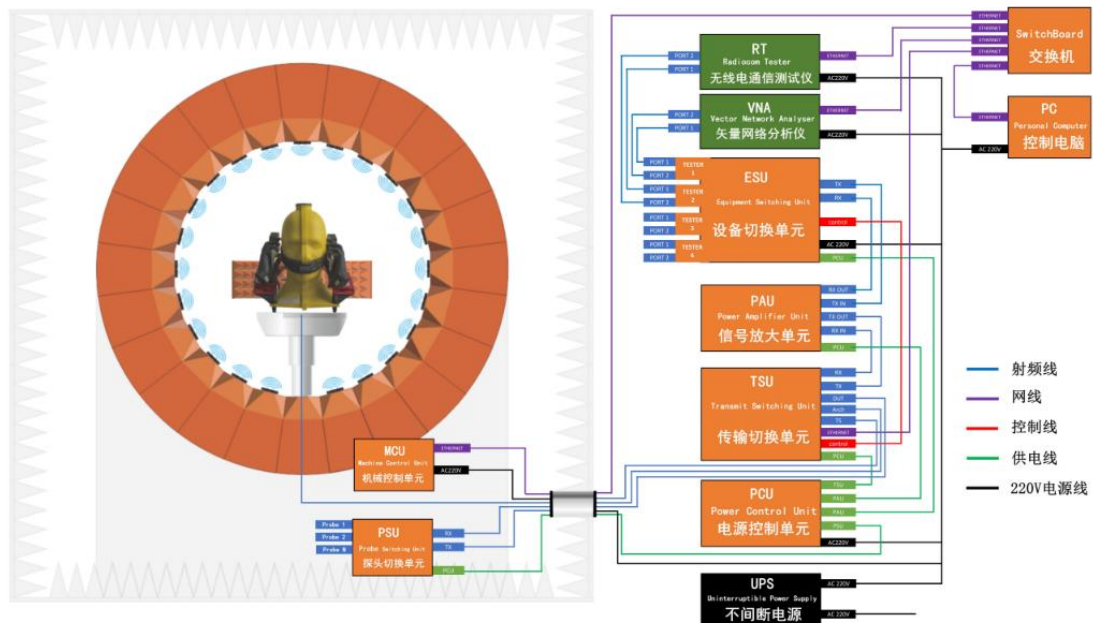
1. Document Revision History

2. Test & System Description

3.1 Measurement Method and System

This test report is prepared for host antenna testing under a Full Anechoic Chamber.

3.2 Test setup



3.3 Equipment list

item	Device	Manufacter	Cal.Date	Cal.Due.Date
1	Chamber isolation	TEM24	2026/1/5	2027/1/4
2	Turntable accuracy	TEM24	2026/2/5	2027/2/27
3	WPA Box(Tx route) Gain	TEM24	2026/2/5	2027/2/27
4	LNA Box(Rx route) Gain	TEM24	2026/2/5	2027/2/27

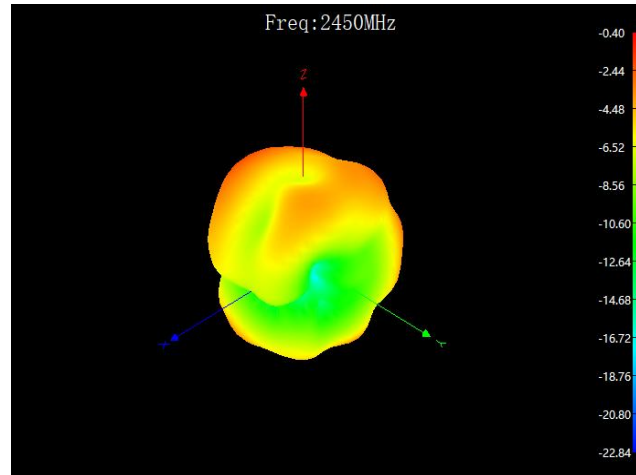
5	Probe Switch Box Loss	TEM24	2026/2/5	2027/2/27
6	Tester Switch Box Loss	TEM24	2026/2/5	2027/2/27
7	Signal Switch Box Loss	TEM24	2026/2/5	2027/2/27
8	Radio Communication Tester	Rohde&Schwarz	2025/7/4	2026/7/3
9	Network Analyzer	Keysight	2025/7/4	2026/7/3
10	Chamber Calb SMAJ-SMAJ-1.5m 0.1G-18G Loss	TEM24	2026/2/5	2027/2/27
11	Chamber Calb SMAJ-SMAJ-0.5m 0.1G-18G Loss	TEM24	2026/2/5	2027/2/27

3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

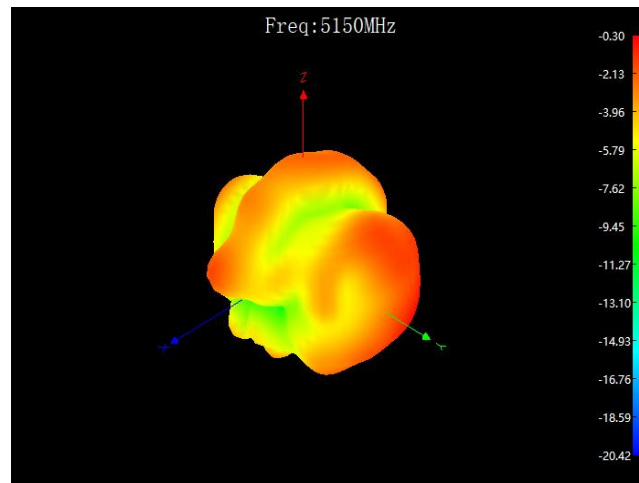
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	-0.4



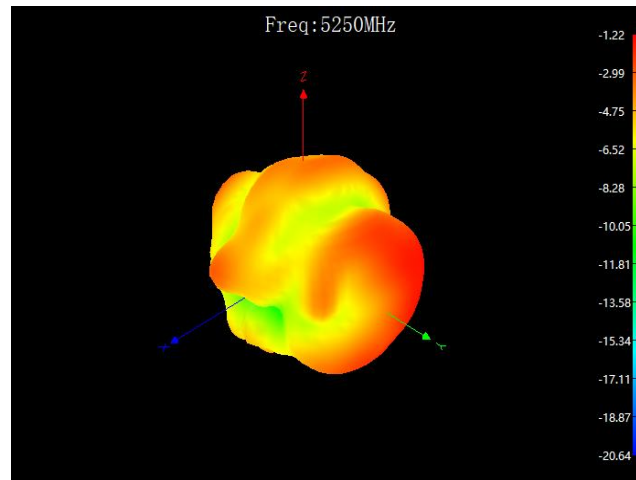
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	-0.3



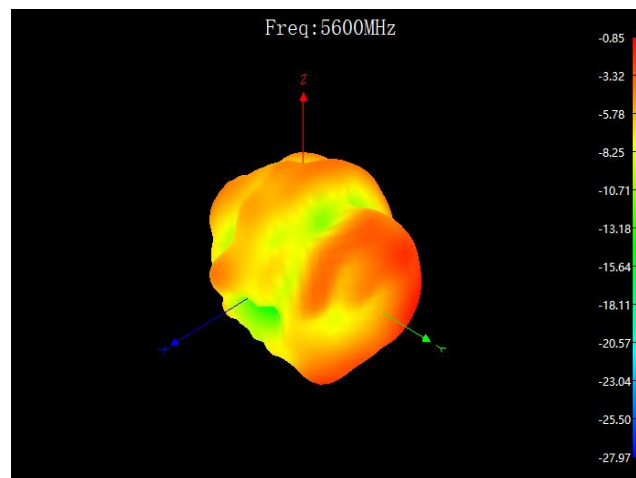
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	-1.22



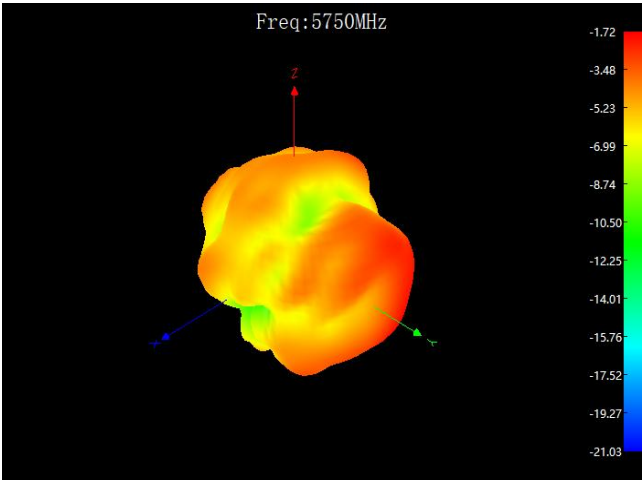
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	-0.85



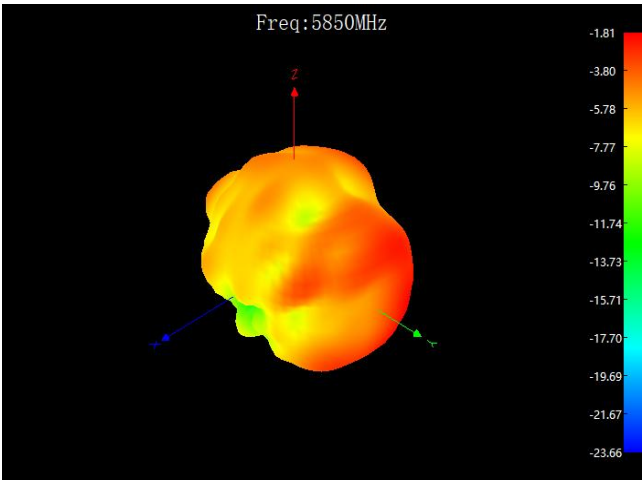
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	-1.72



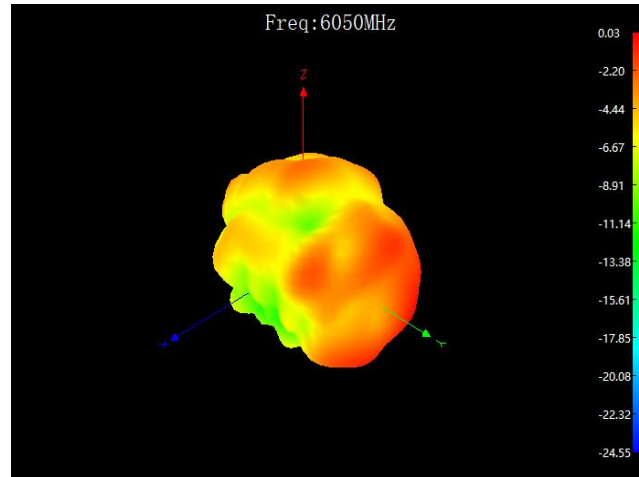
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	-1.81



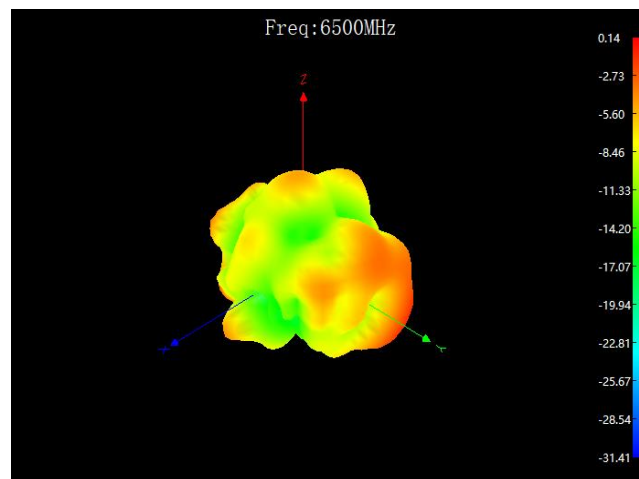
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	0.03



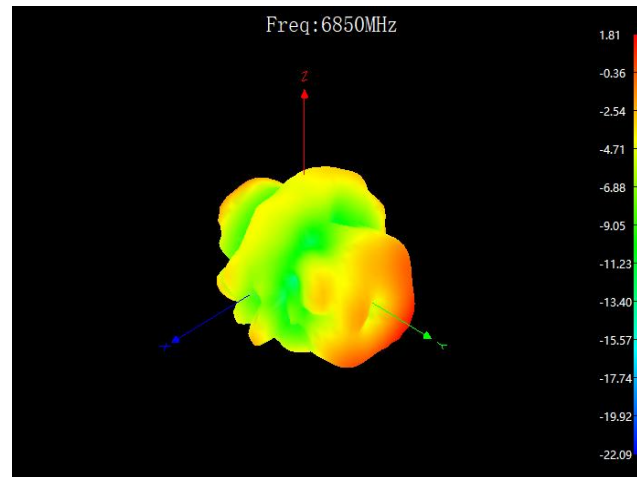
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	0.14



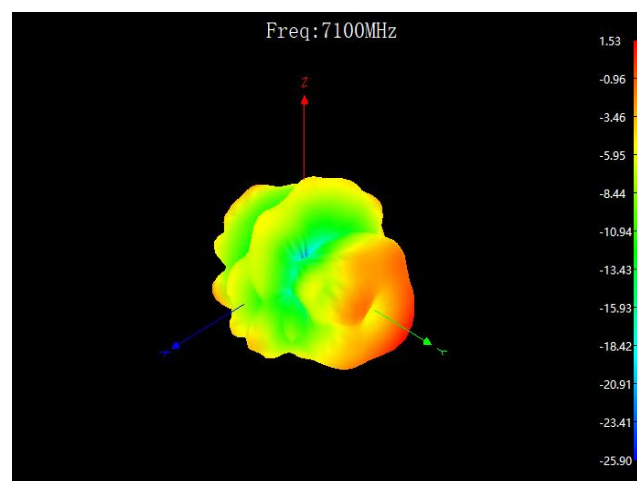
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	1.81



Max Antenna 3D Radiation Pattern 6875-7125 MHz

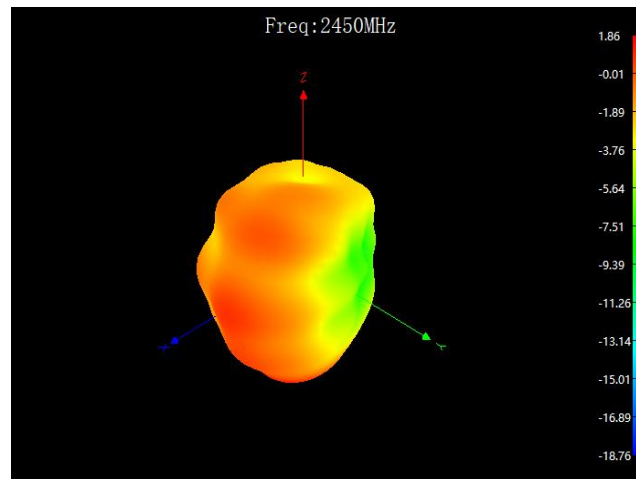
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	1.53



Auxiliary Antenna

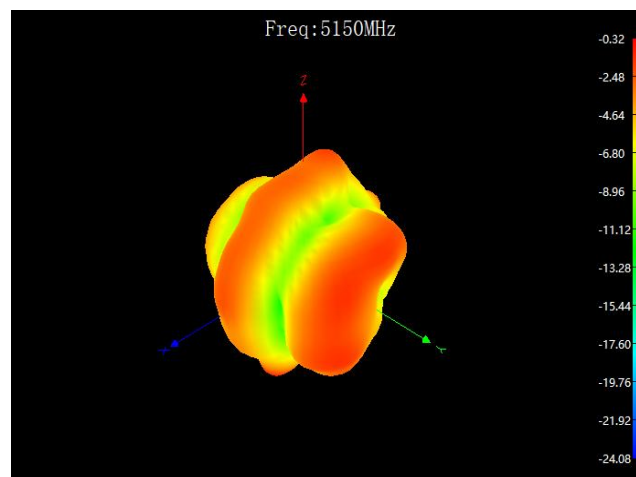
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.86



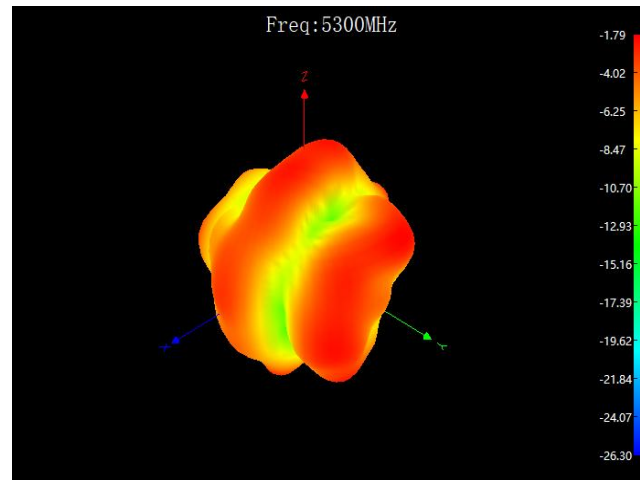
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	-0.32



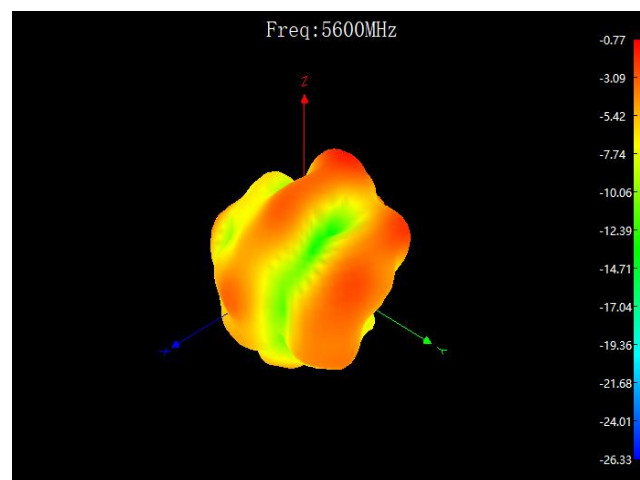
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	-1.79



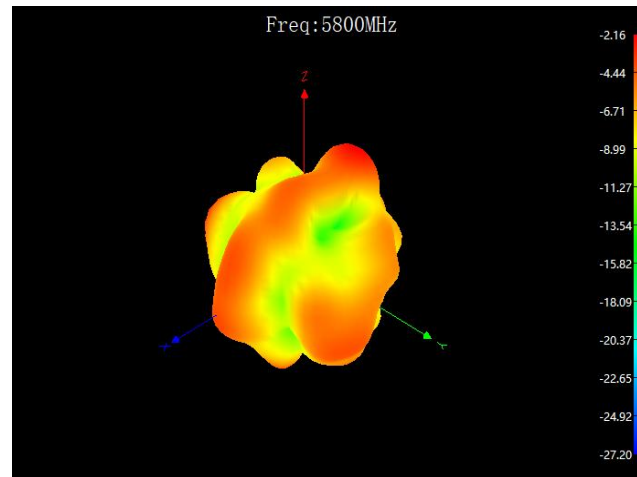
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	-0.77



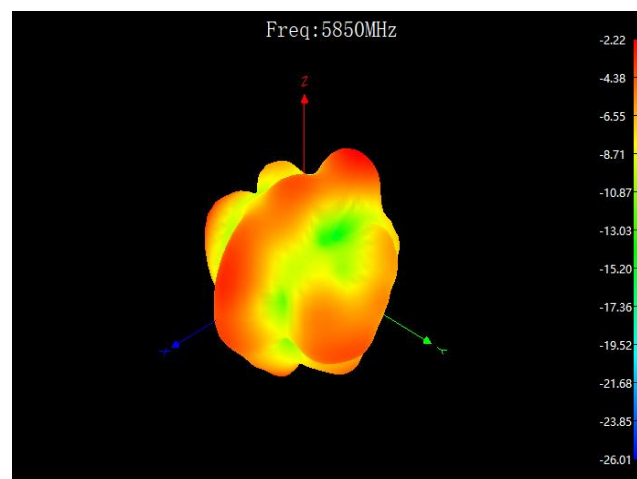
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	-2.16



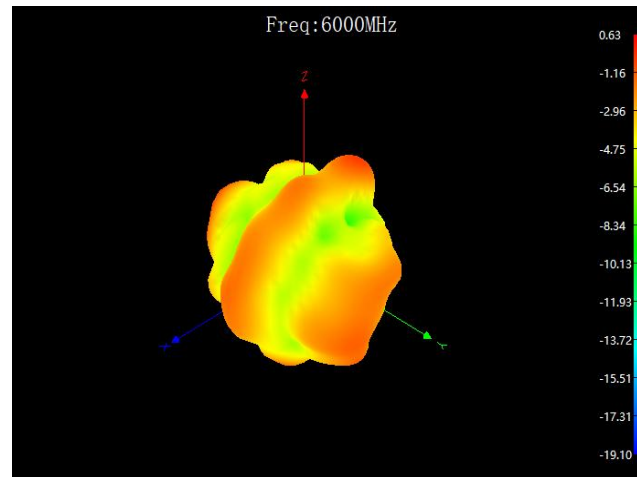
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	-2.22



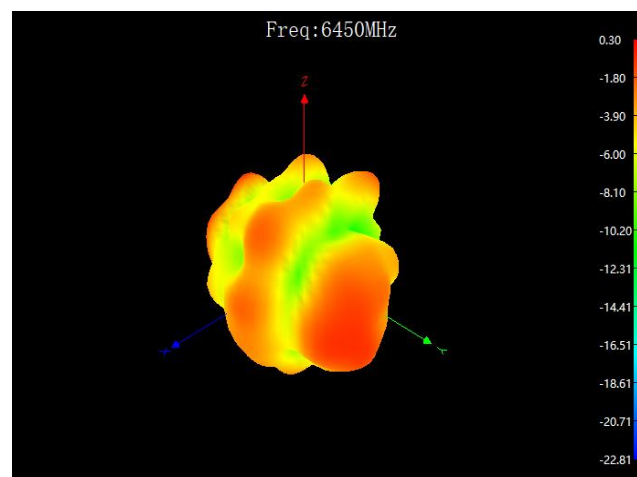
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	0.63



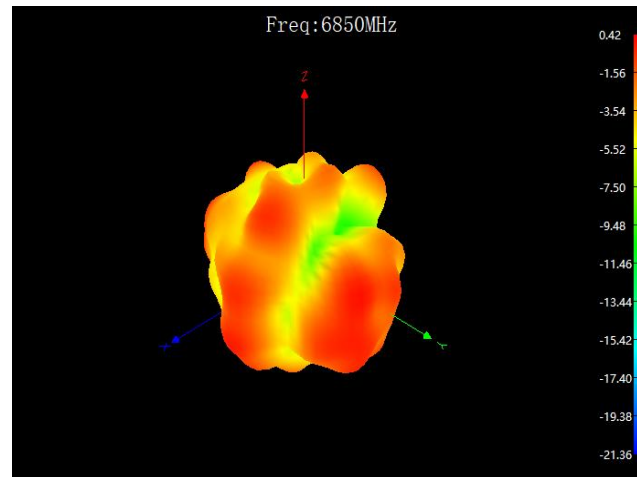
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	0.3



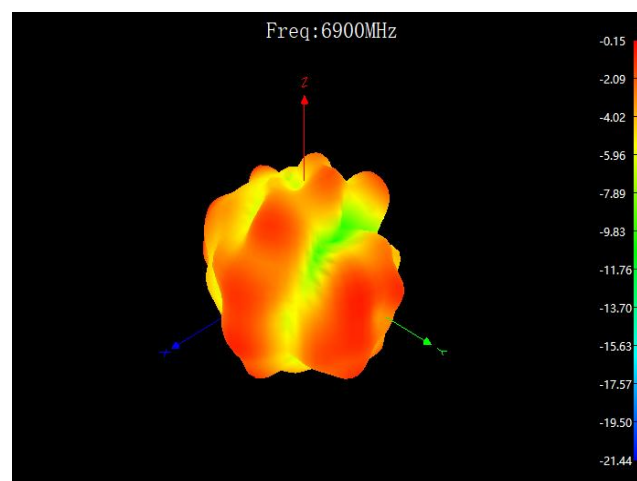
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	0.42



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	-0.15



Annex A. Photographs

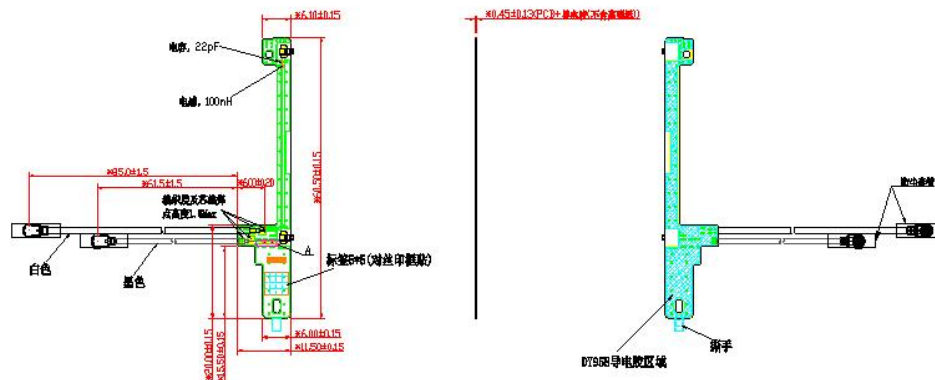
A.1 Setup Photo



A.2 Test sample

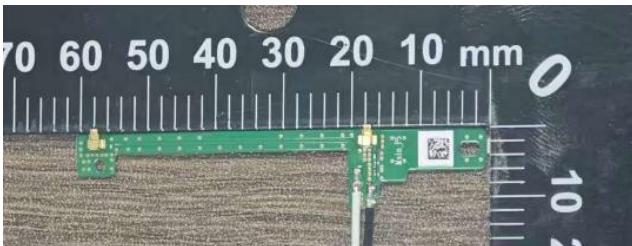
Main Antenna

Antenna Drawing

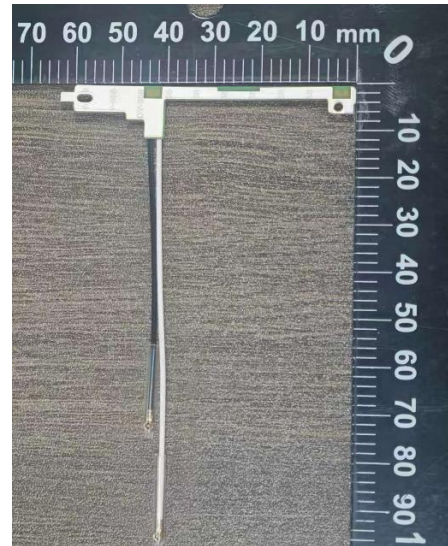


Antenna Photo

Front



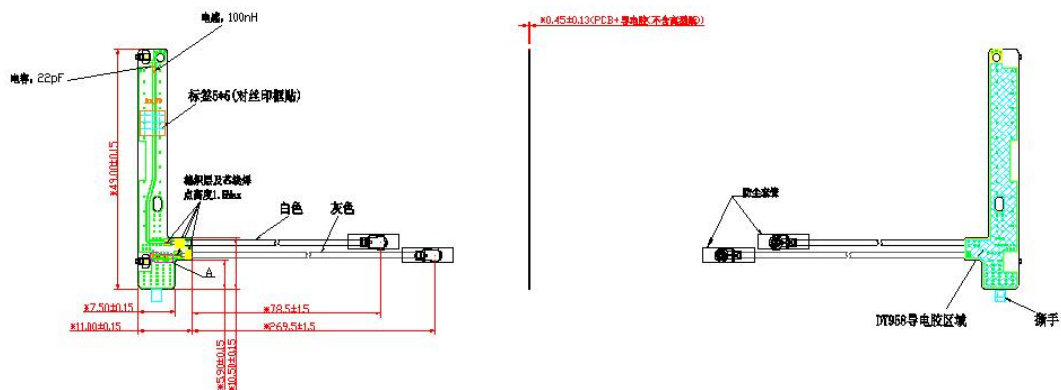
Back



Note: antenna photo should include L type ruler

Aux Antenna

Antenna Drawing

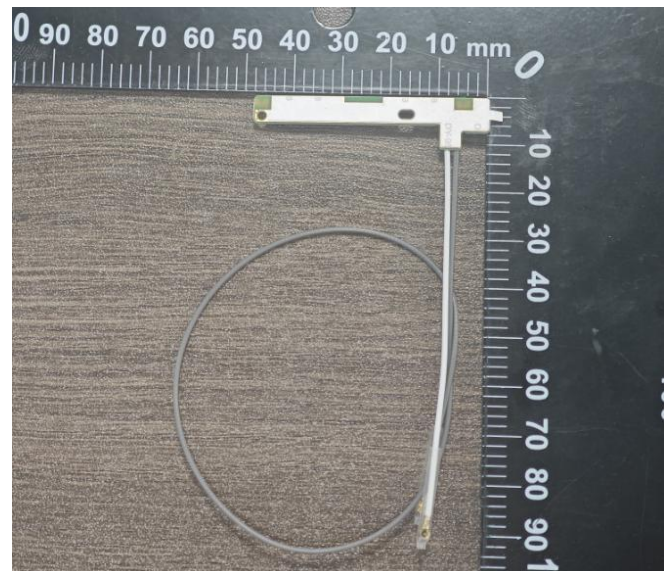


Antenna Photo

Front



Back



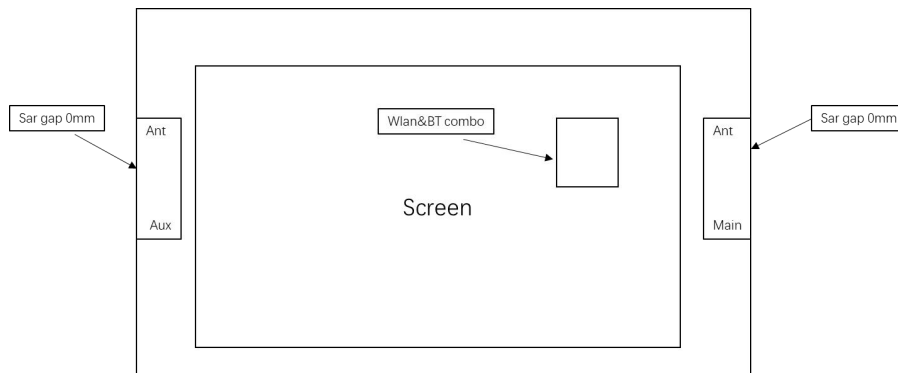
Note: antenna photo should include L type ruler

Annex B. Antenna Location

B.1 Antenna Host Platform Location Information

Include a dimensioned photo(s) or dimensioned drawing(s) of Main and Aux antenna placements (measurements are not required for receive-only antenna).

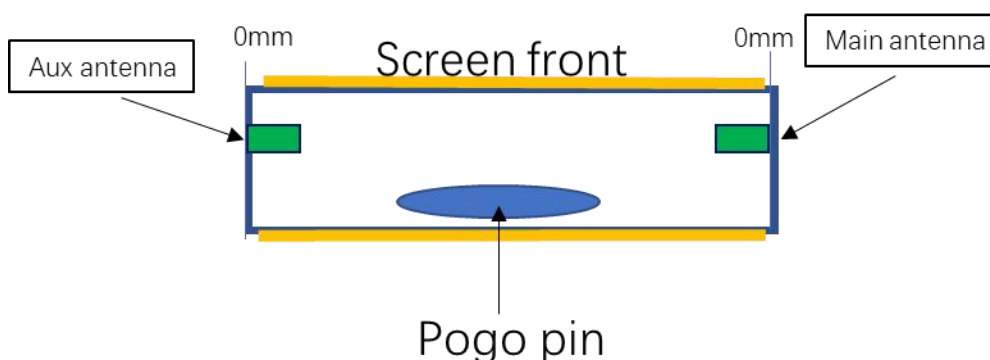
Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas; for example, non-conductive plastics vs. conductive coated plastic or metallic materials.

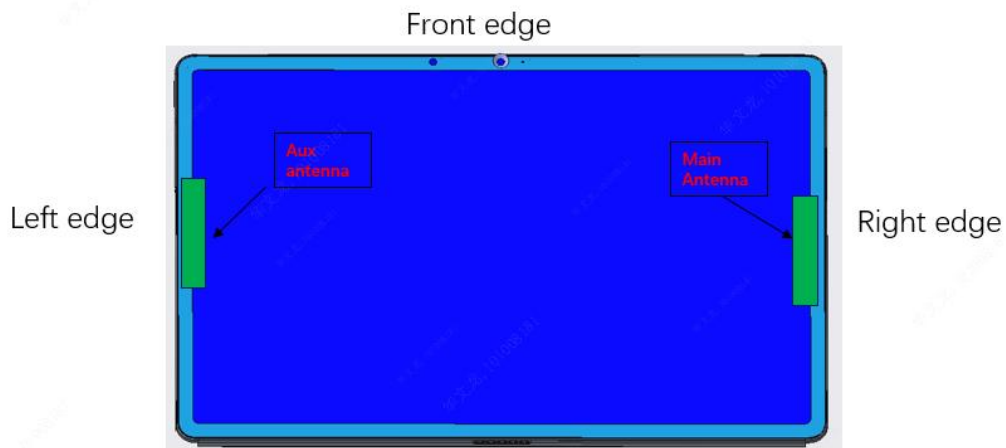


B.2 Antenna dimensional information for SAR evaluation

Include a dimensioned photo(s) or dimensioned drawing(s) showing the distance (mm) between the transmit antennas and the user. For notebook/laptop hosts show lapheld position (example below). For tablet hosts show all orientations including lapheld, primary & secondary portrait, primary & secondary landscape positions. Include a description of any proximity sensors or power throttling implementations that limit or exclude use of any host orientation.

Antennas Location





Measuring Surface	Antenna	Separation Distance(antenna-to-Surface)(mm)
Bottom Side	Main	0
	Aux	0
Front Edge	Main	25
	Aux	25
Left Edge	Main	293
	Aux	0
Right Edge	Main	0
	Aux	293