# ANTENNA INFORMATION

| | | |
|---|---|---|
| OEM | | Lenovo |
| ODM | | LCFC |
| Platform model name | | Yoga 9 2-in-1 14ILL10 |
| Intel platform (ex: Yes, No or NA) | | Yes |
| Platform type (ex: regular NB, convertible PC, AIO…etc) | | Convertible PC |
| SAR minimum separation (mm) | FCC (1g) | NB Mode : 0.8mm ;Pad Mode : 0.5mm |
| | ISED (1g) | NB Mode : 0.8mm ;Pad Mode : 0.5mm |
| | ISED (10g) | 0.5mm |

| | | |
|---|---|---|
| Antenna manufacturer | Company name | Speed Wireless Technical Co., LTD |
| | Address | No.138 Huize Road, Hi-Tech Industrial Park of East River, Zhongkai Hi-tech District, Huizhou City, Guangdong Province |
| Test location | Company name | Speed Wireless Technical Co., LTD. |
| | Address | Lenovo Science and Technology Port, 5899 Xi You Road, Jingkai District, Hefei, Anhui province |
| Test Personnel | Name(Full name) | Zhang Junjie |
| | E-mail | zhangjunjie@speed-hz.com |
| | Tel/Mobile | 18855121993 |
| Testing date | | 2024.10.28 |

| | | |
|---|---|---|
| Antenna Part number | Main | DC330025S00 |
| | Aux | DC330025S00 |
| 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 | 1.25 | 1.40 | 1.32 | -0.13 | -0.26 | 0.33 | 1.14 | 2.10 | 2.38 | 2.48 |
| Aux | 1.45 | 2.04 | 2.01 | 1.74 | 1.55 | 1.27 | 3.22 | 2.05 | 1.79 | 2.10 |

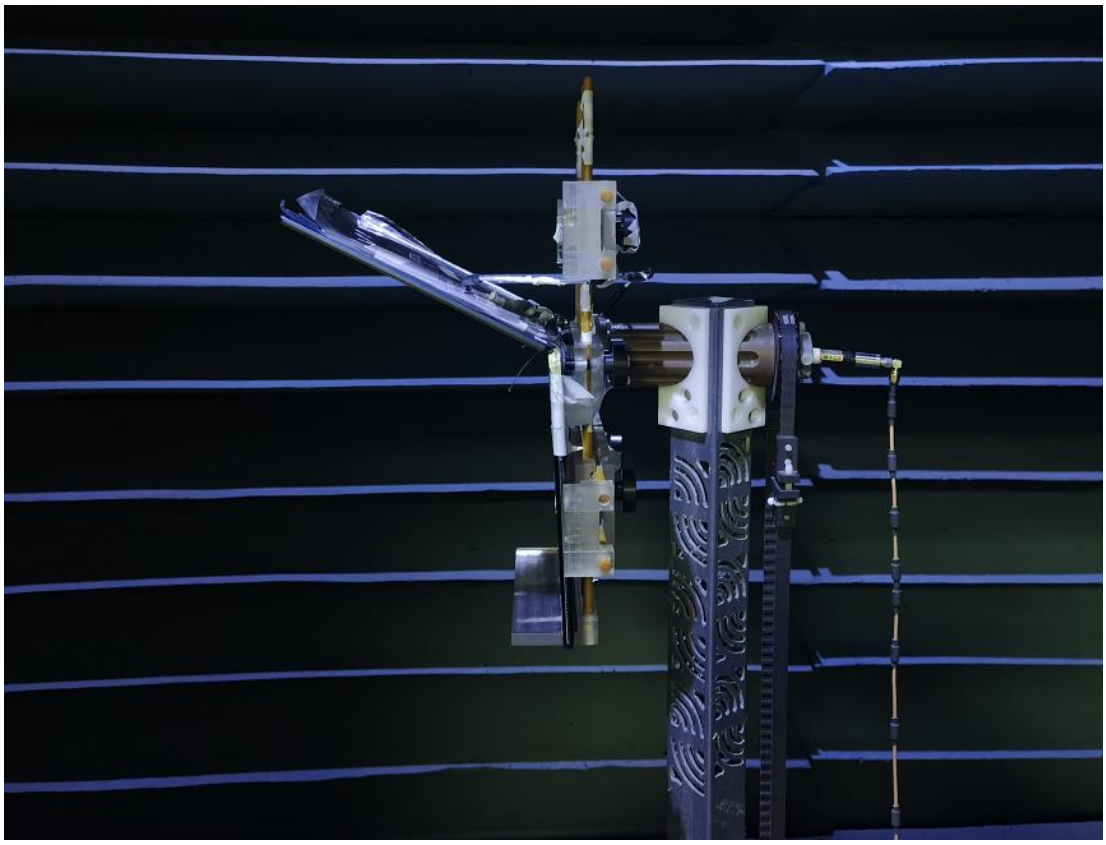
Cable Assembly Part Number and Information

| | **Cable PN** | **Cable length**(mm) | **Cable diameter**(mm) | **Impedance**(ohm) | **Connector type** |
|---|---|---|---|---|---|
| Main | M-Z4-SD-0081-507-K0 | 49.5 | 0.81 | 50 | I-PEX |
| Aux | M-Z4-SD-0081-507-G0 | 96 | 0.81 | 50 | I-PEX |

* 3D Antenna Peak Gain required being test in system basis.

# Annex A. Photographs

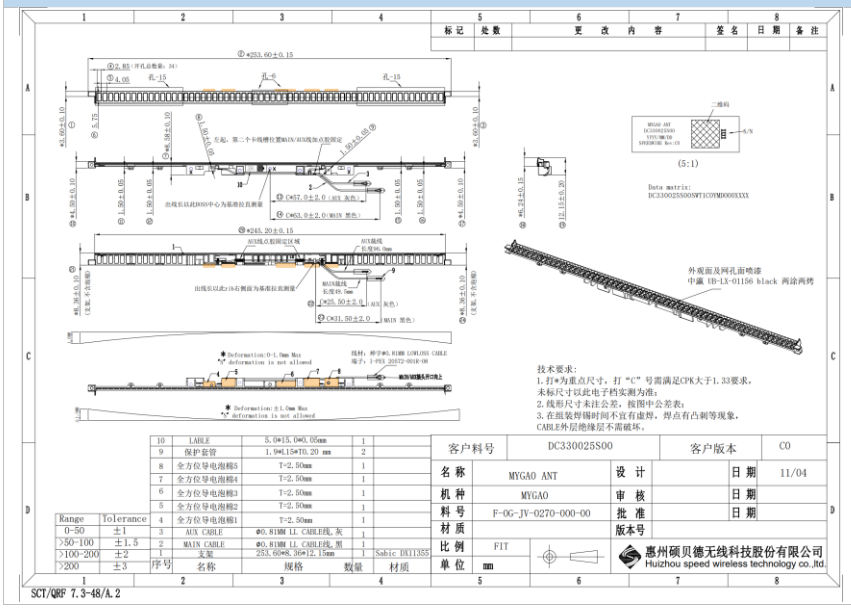
## A.1 Setup Photo



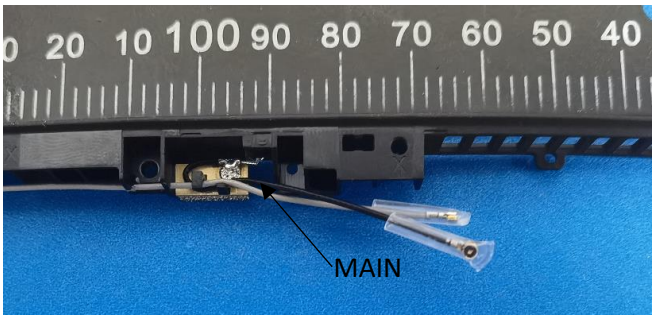
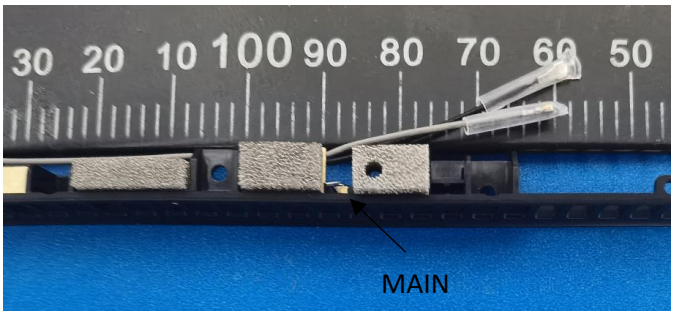
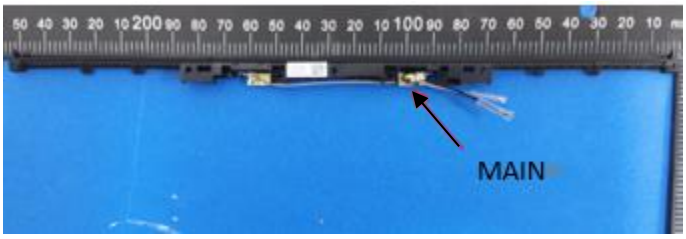
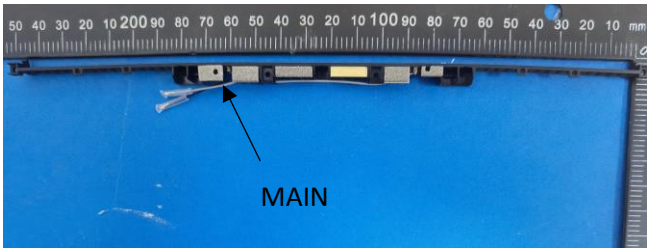
## A.2 Test sample

### Main Antenna

#### Antenna Drawing

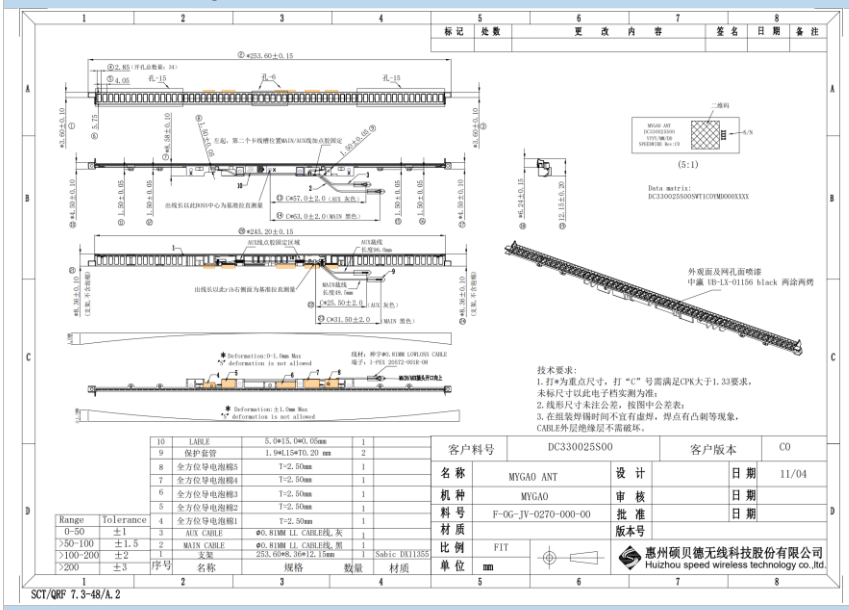



#### Antenna Photo

| Front | Back |
|---|---|
|   |   |
|   |   |

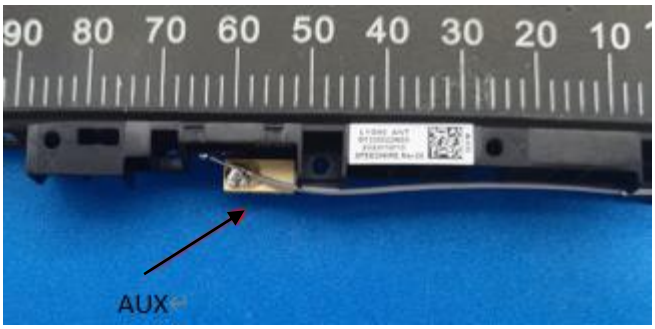
# Aux Antenna

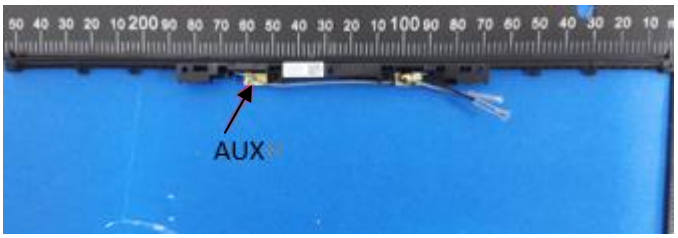
## Antenna Drawing



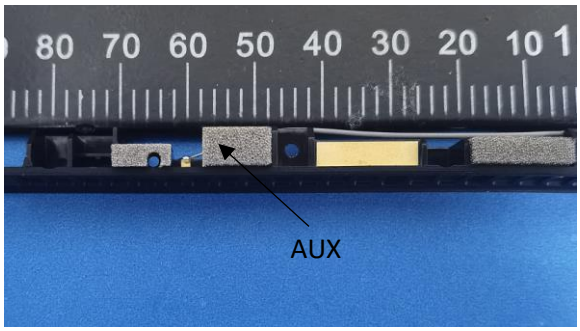

## Antenna Photo

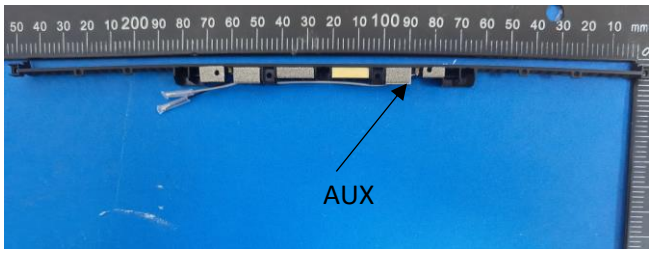
### Front




### Back



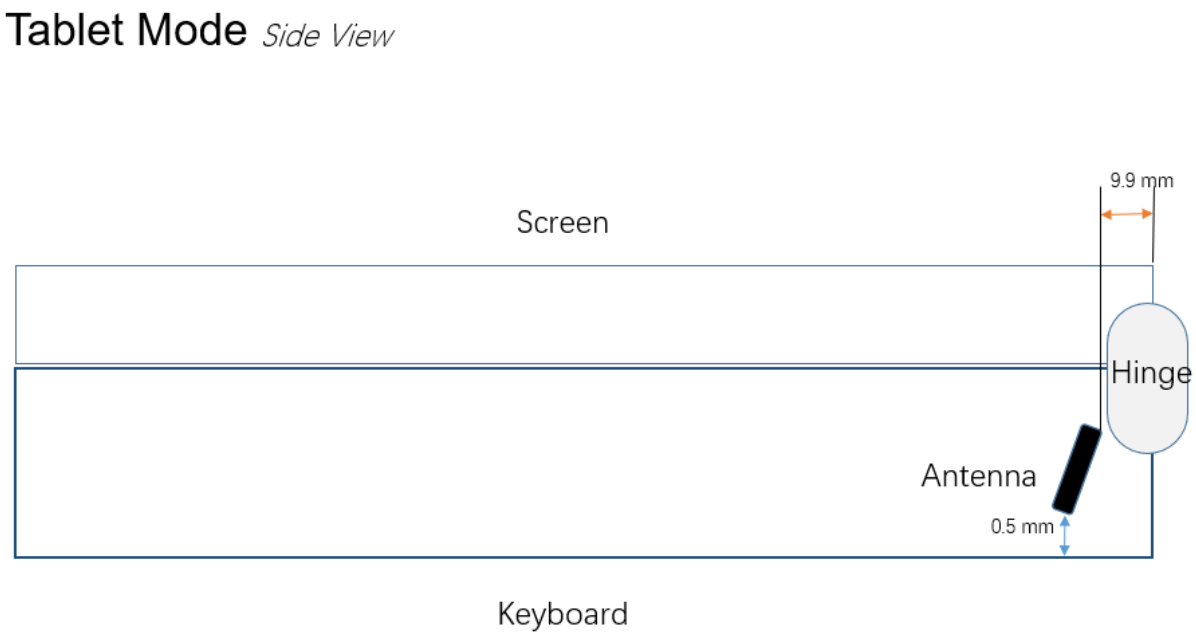



# Annex B. Antenna Location

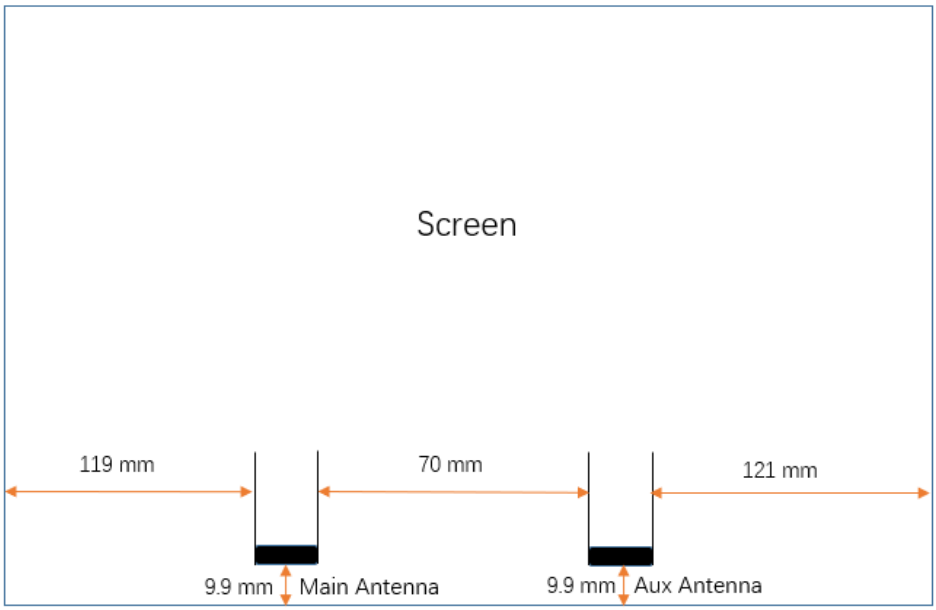
### B.1 Antenna Host Platform Location Information

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

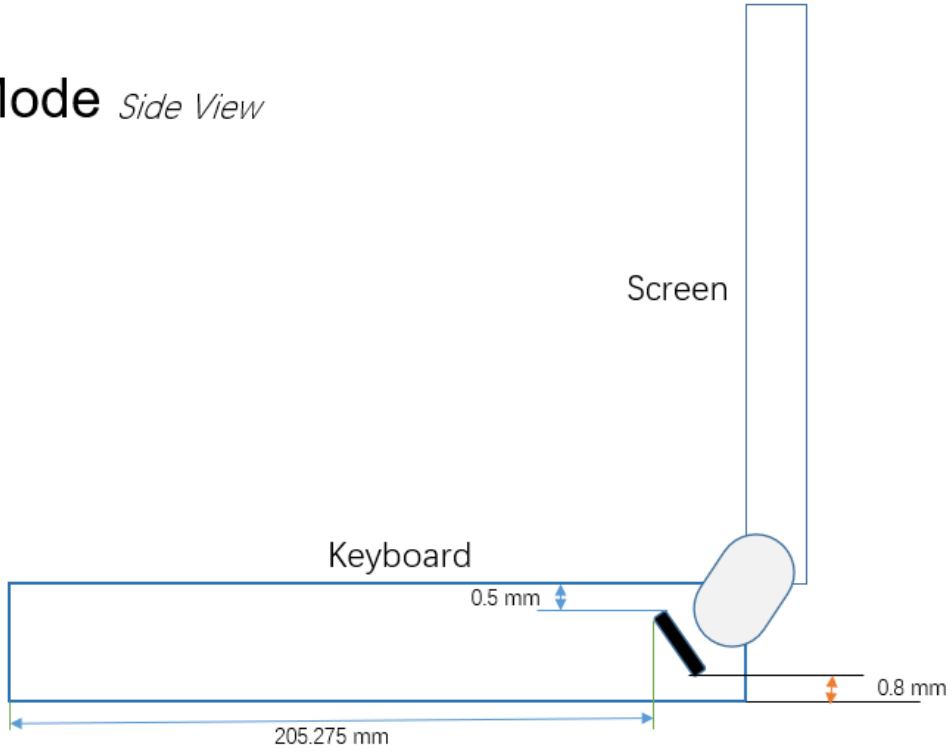
Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas; for example, non-conductive plastics vs. conductive coated plastic or metallic materials.



# Tablet Mode *Front View*



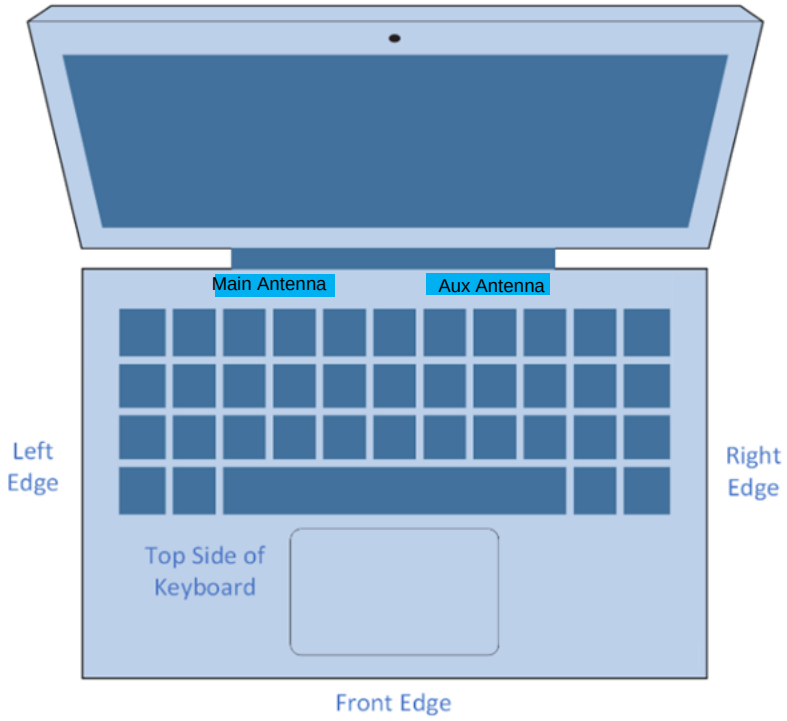

# NB Mode *Side View*



## 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 on the keyboard section**




| Measuring Surface | Antenna | Separation Distance(antenna-to-Surface) (mm) | 1g or 10g SAR |
|---|---|---|---|
| Bottom Side | Main | **0.8** | 1g (FCC/ISED) |
| | Aux | **0.8** | 1g (FCC/ISED) |
| Front Edge | Main | **205.275** | 1g (ISED) |
| | Aux | **205.275** | 1g (ISED) |
| Left Edge | Main | **119** | 10g (ISED) |
| | Aux | **189** | 10g (ISED) |
| Right Edge | Main | **191** | 10g (ISED) |
| | Aux | **121** | 10g (ISED) |
| Top side of Keyboard | Main | **0.5** | 10g (ISED) |
| | Aux | **0.5** | 10g (ISED) |