

ANTENNA INFORMATION

OEM	DELL
ODM	COMPAL
Platform model name	P176G
Intel platform (ex: Yes, No or NA)	Yes
Platform type (ex: regular NB, convertible PC, AIO...etc)	Regular NB
SAR minimum separation (mm)	3.65 mm (w/o bumper: 2.15 mm)

Antenna manufacturer	SPEEDWIRE		
Address	25F, No.95, Xinpu 6th St., Taoyuan Dist., Taoyuan City 33044, Taiwan.		
Antenna Part number	Main: F-0G-FH-6164-001-00	DC33002RP0L(Compal)	
Antenna type (ex: PIFA, Dipole...etc)	Aux: F-0G-FH-6164-001-00	DC33002RP0L(Compal)	
	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	-0.75	2.58	3.33	3.85	4.05	4.41	4.43	3.91	4.18	4.31
Aux	0.64	2.62	2.62	3.31	1.73	1.41	3.43	2.90	2.75	2.53

Cable Assembly Part Number and Information					
	Cable PN	Cable length(cm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	SY113L/50-143	74	1.13	50	IPEX 4L
Aux	SY113L/50-118	179	1.13	50	IPEX 4L

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

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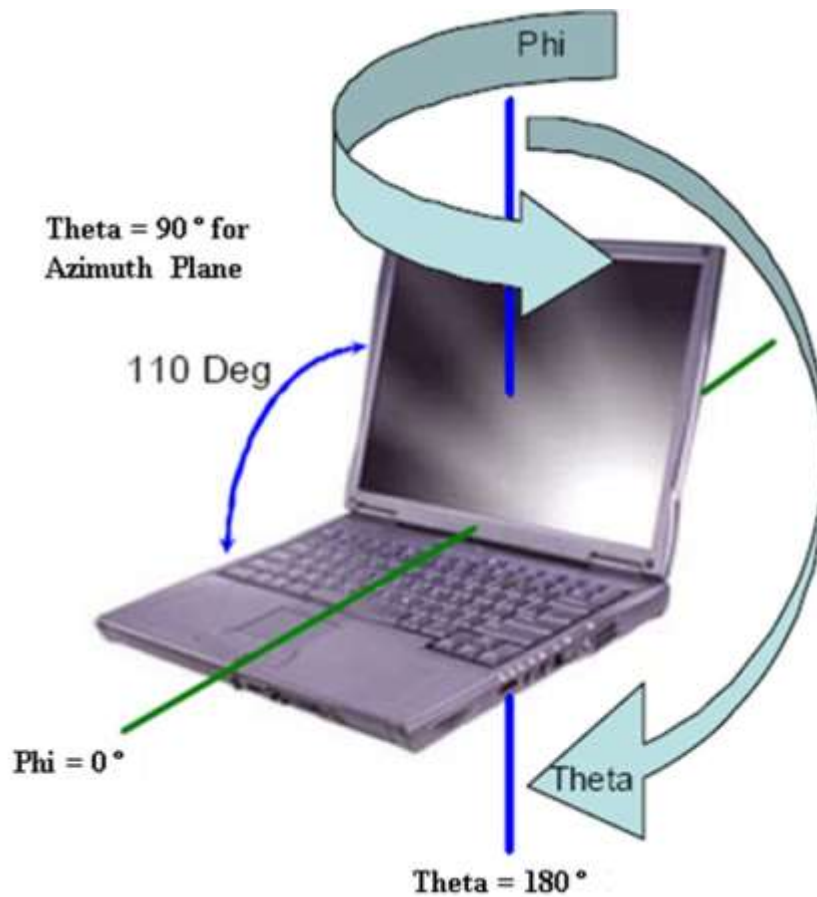
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Test Conditions

NB under test placed on a non-conductive structure at sufficient height to be in the 'quiet zone' of the chamber

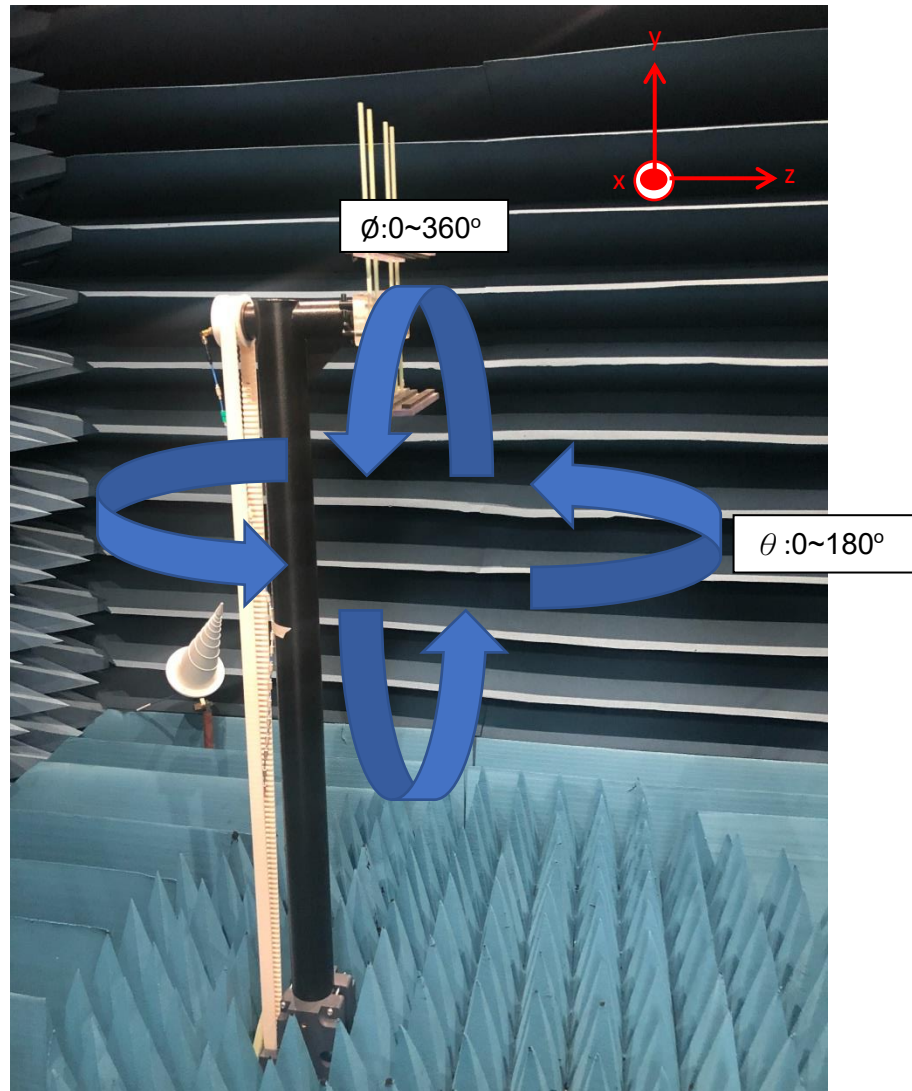
The NB under test must be fully populated with a power, motherboard, hard drive, disk drives, etc... The purpose is to characterize the antennas on a fully populated customer deliverable unit.

NB's Control panel should be parallel with XY-plane and face to X-axis, see diagram below.



Annex A. Photographs

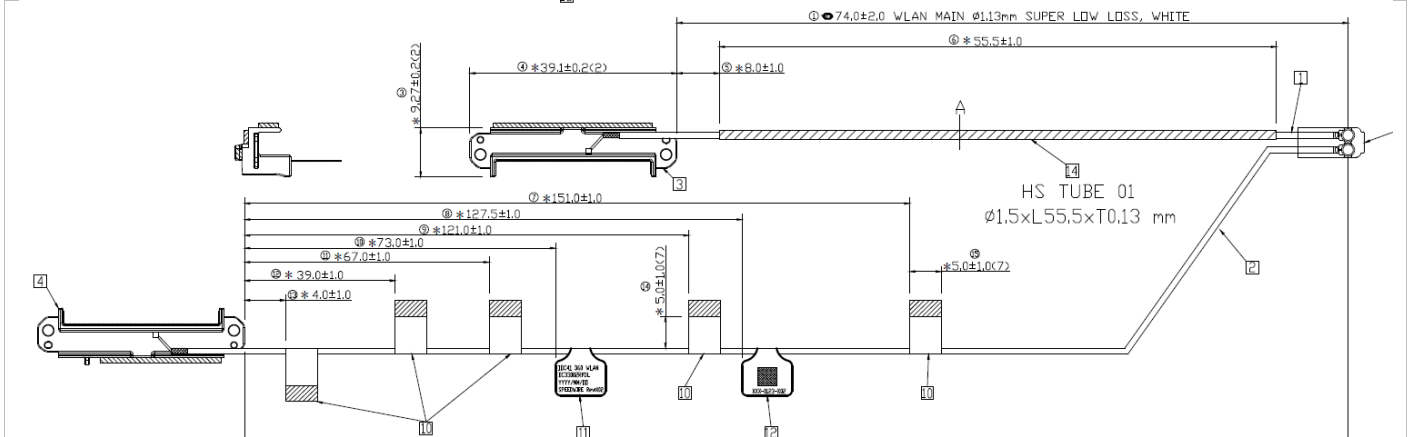
A.1 Setup Photo



A.2 Test sample

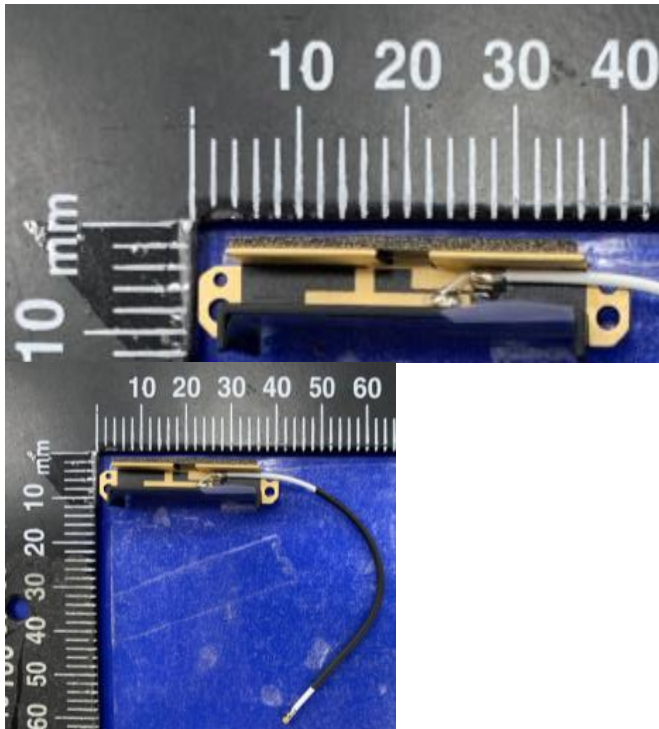
Main Antenna

Antenna Drawing

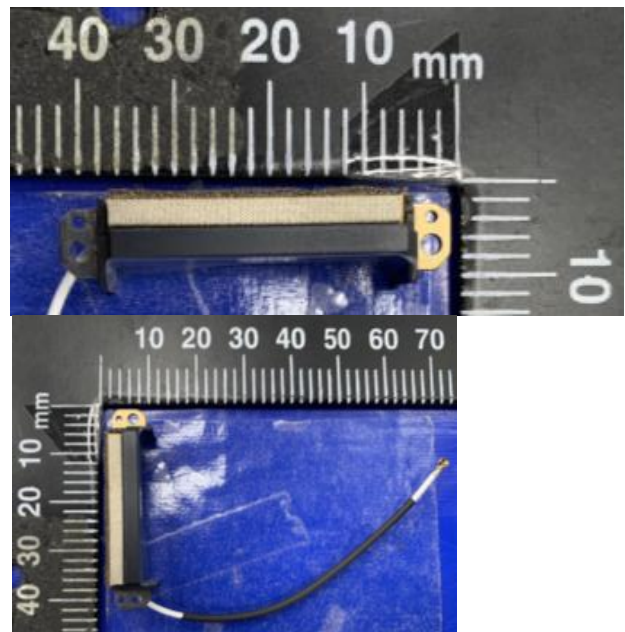


Antenna Photo

Front



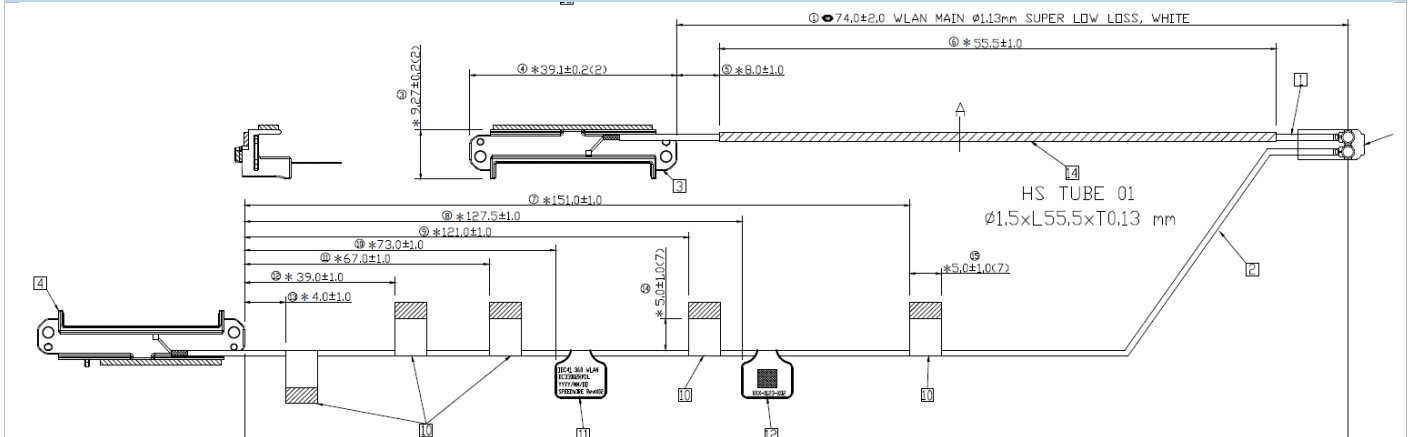
Back



Note: antenna photo should include L type ruler

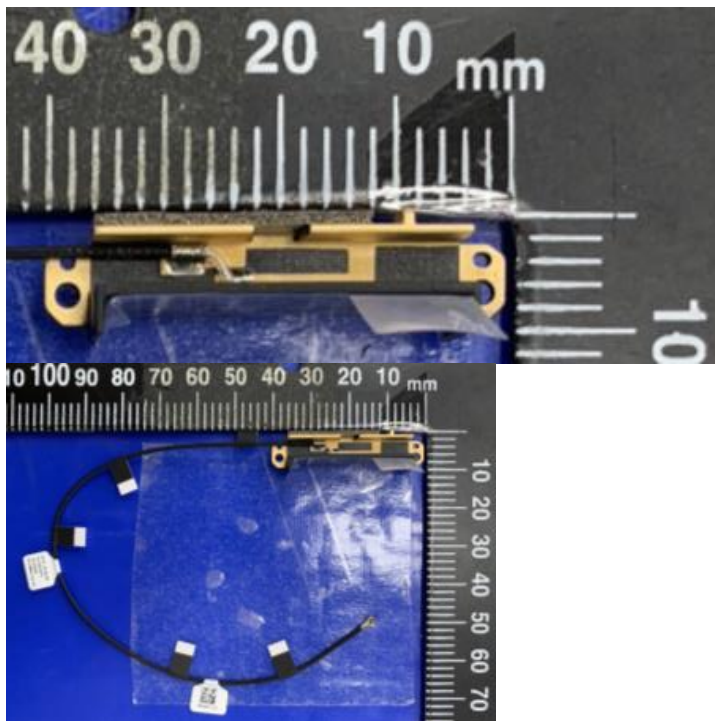
Aux Antenna

Antenna Drawing

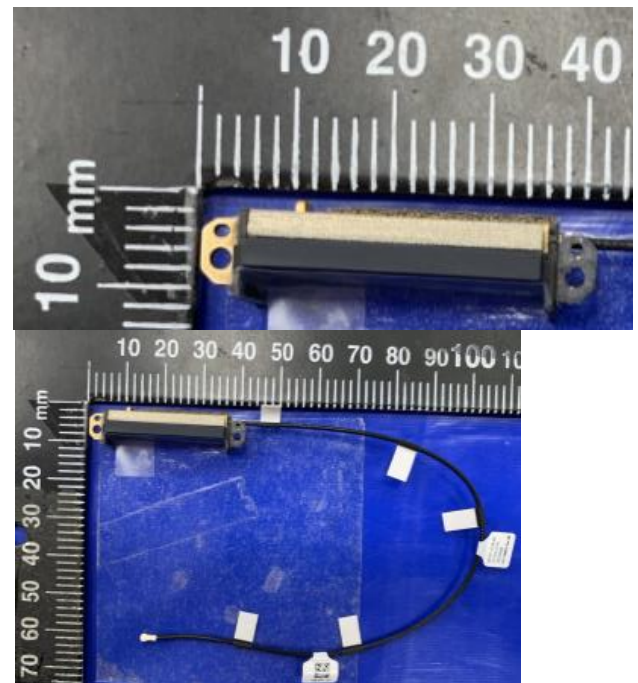


Antenna Photo

Front



Back



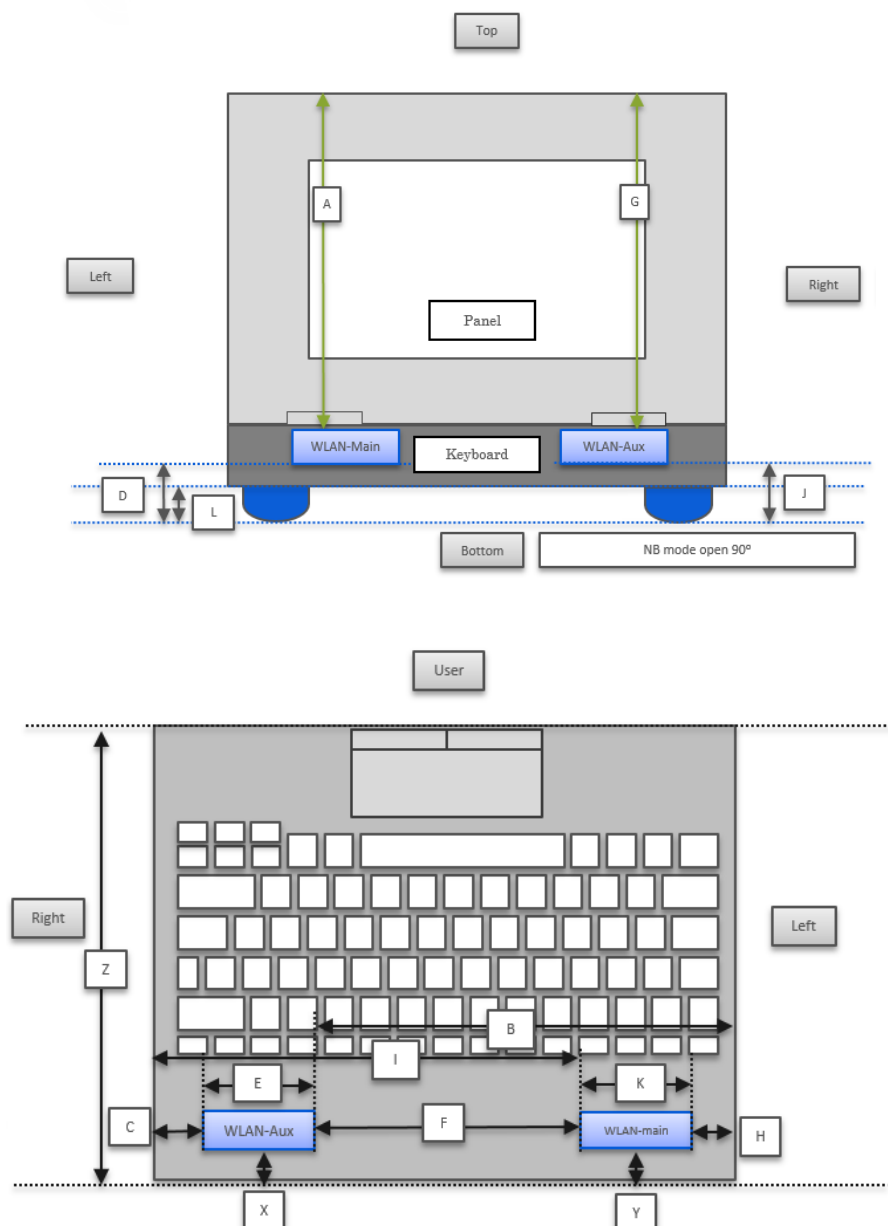
Note: antenna photo should include L type ruler

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.



Minimum Separation Distance			
Item	Antenna	Position	Distance (mm)
A	WLAN-Aux	to Top	207
B	WLAN-Aux	to Left	253
C	WLAN-Aux	to Right	21
D	WLAN-Aux	to Bottom	3.44
E	WLAN-Aux	Main Antenna Length	38.5
F	Main-Aux	Main to Aux	194
G	WLAN-main	to Top	217
H	WLAN-main	to Left	21
I	WLAN-main	to Right	253
J	WLAN-main	to Bottom	3.44
K	WLAN-main	Aux Antenna Length	38.5
L	NB	Bumper thickness	1.5
X	WLAN-Aux	to hinge	11
Y	WLAN-Main	to hinge	11
Z	NB	Keyboard depth	221

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.

