ANTENNA INFORMATION

OEM	DELL
ODM	COMPAL
Platform model name	P174G
Intel platform (ex: Yes, No or NA)	Yes
Platform type (ex: regular NB, convertible PC, AIO…etc)	Regular NB
SAR minimum separation (mm)	3.44 mm (w/o bumper: 2.2 mm)

Antenna manufacturer	SPEEDWIRE
Address	25F, No.95, Xinpu 6th St., Taoyuan Dist., Taoyuan City 33044, Taiwan.
Antenna Part number	Main: F-0G-FH-6155-001-00 DC33002R90L(Compal) Aux: F-0G-FH-6155-001-00 DC33002R90L(Compal)
Antenna type (ex: PIFA, Dipole…etc)	PIFA

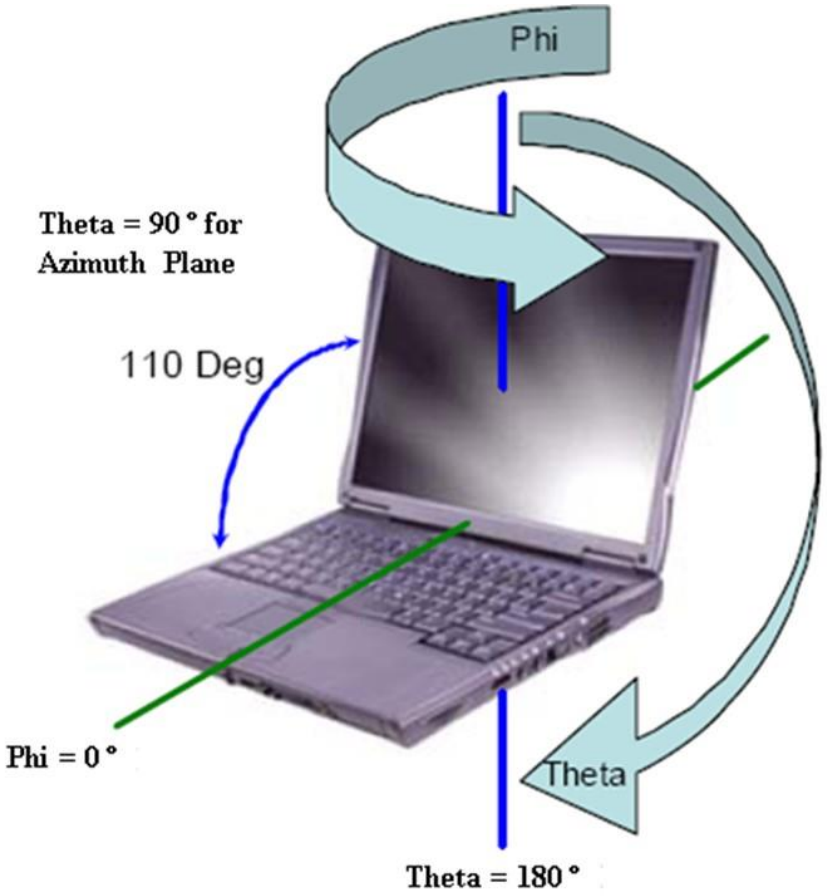
Antenna Peak gain w/ cable loss (dBi)*										
	2.4GHz 2400-2483.5 MHz	**5.2GHz** 5150-5250MHz	**5.3GHz** 5250-5350MHz	**5.6GHz** 5470-5725MHz	**5.8GHz** 5725-5850MHz	**5.9GHz** 5850-5895MHz	**6.2GHz** 5925-6425MHz	**6.5GHz** 6425-6525MHz	**6.7GHz** 6525-6875MHz	**7.0 GHz** 6875-7125MHz
Main	0.27	3.24	2.97	2.81	2.42	1.00	3.01	2.64	3.76	3.40
Aux	0.07	1.83	1.51	2.33	2.00	2.34	3.53	3.34	3.64	2.75

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.

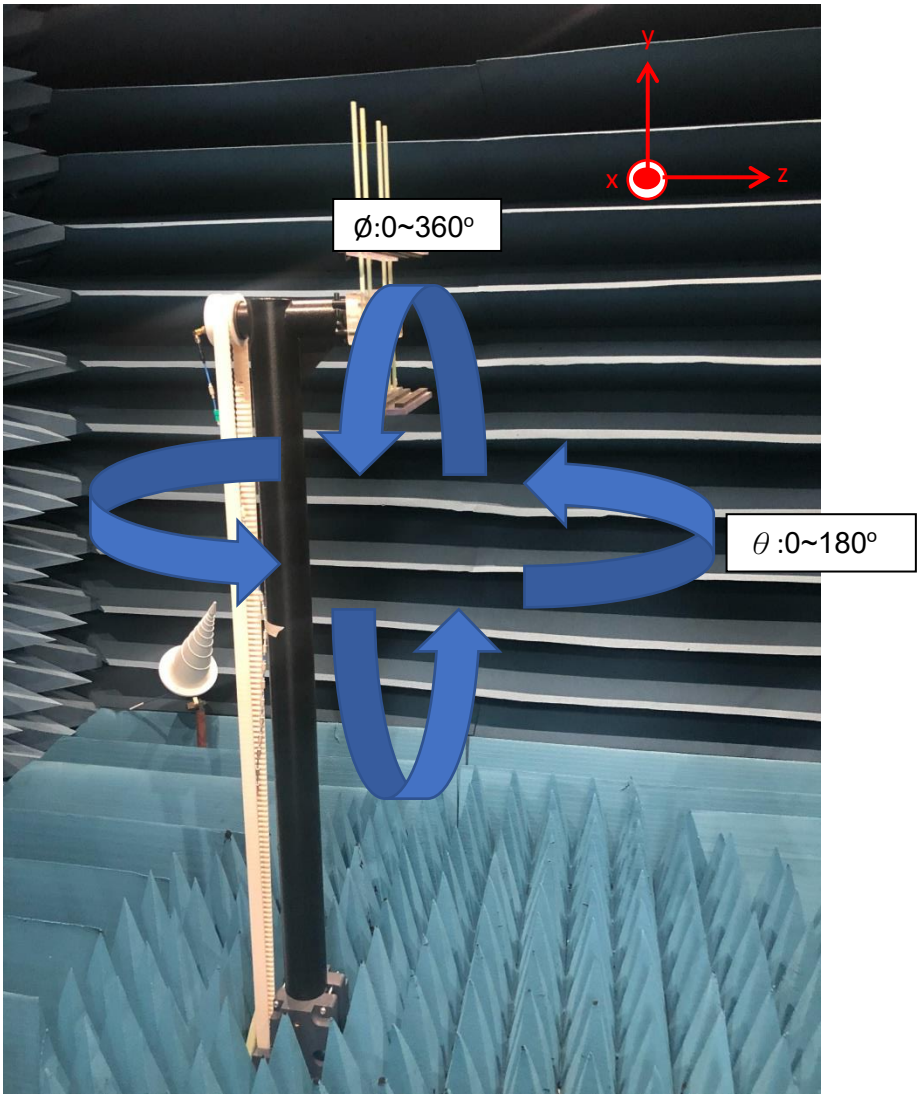
Table of Contents

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-axle, see diagram below.



Annex A. Photographs

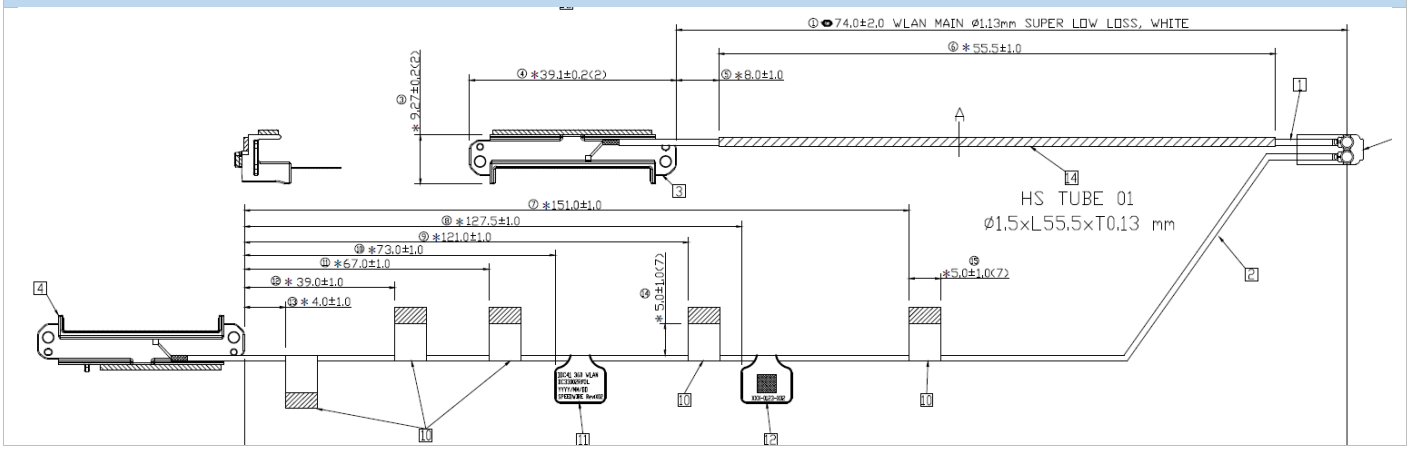
A.1 Setup Photo



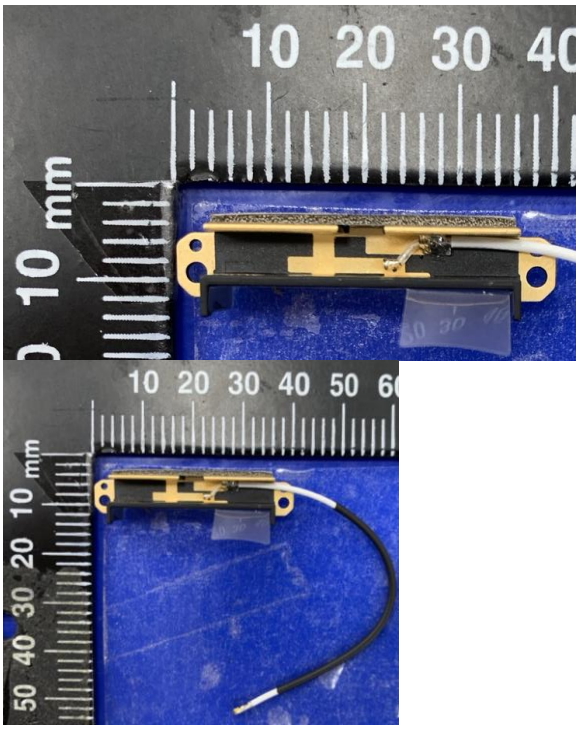
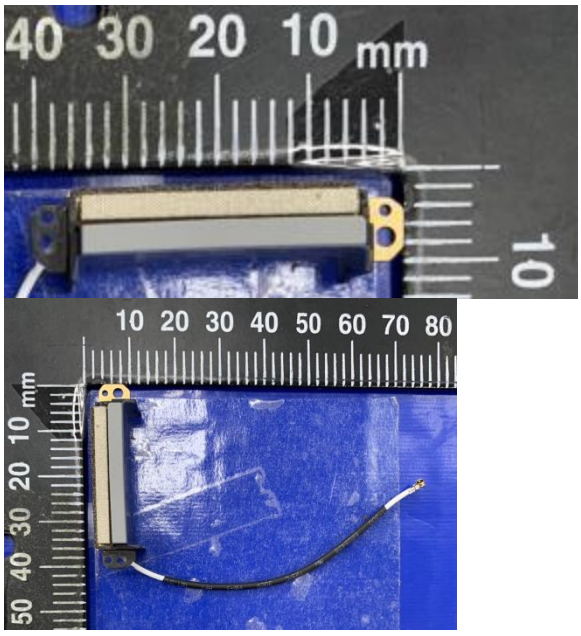
A.2 Test sample

Main Antenna

Antenna Drawing



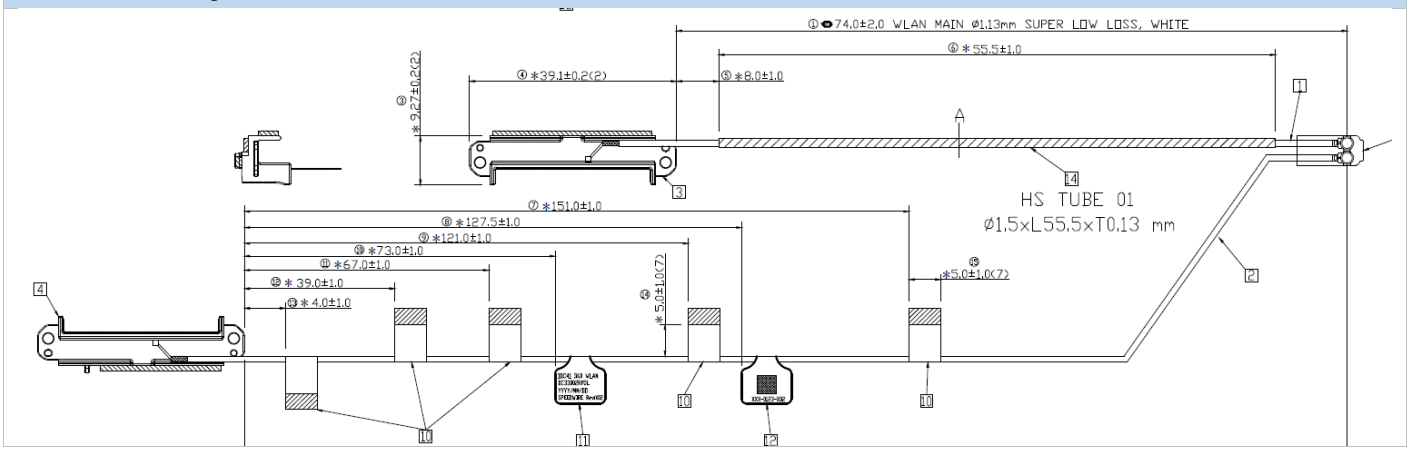
Antenna Photo

Front	Back
	

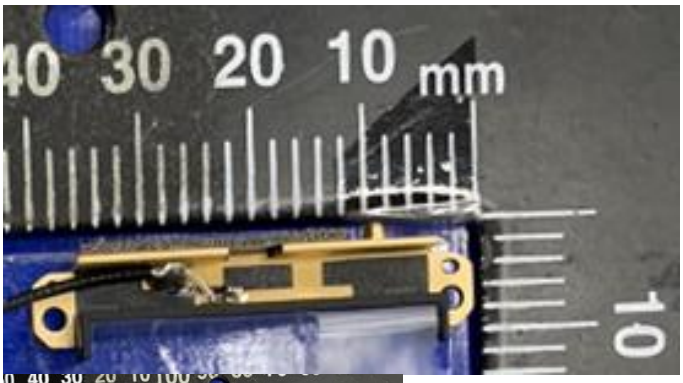
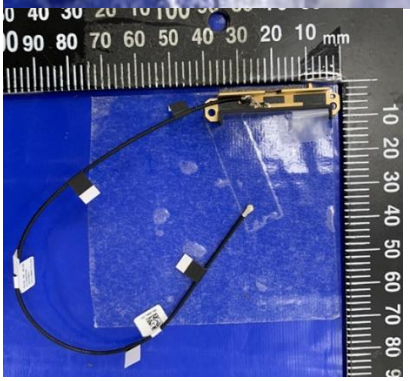
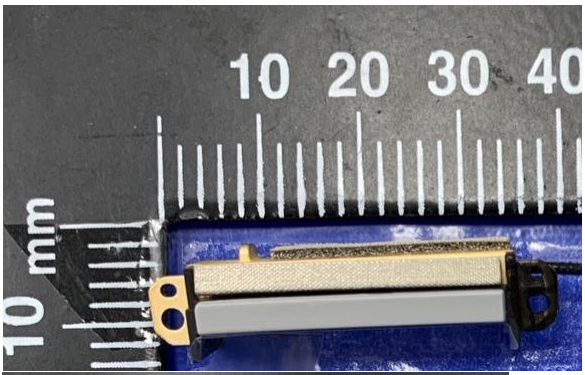
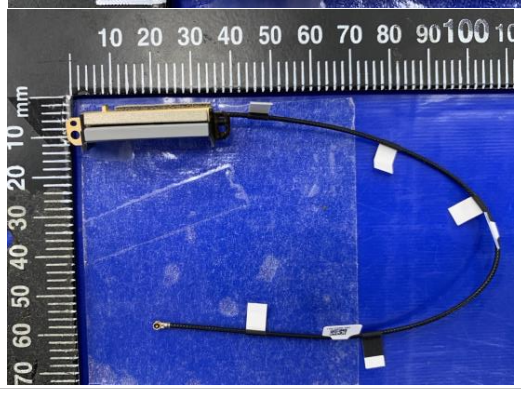
Note: antenna photo should include L type ruler

Aux Antenna

Antenna Drawing



Antenna Photo

Front	Back
 	 

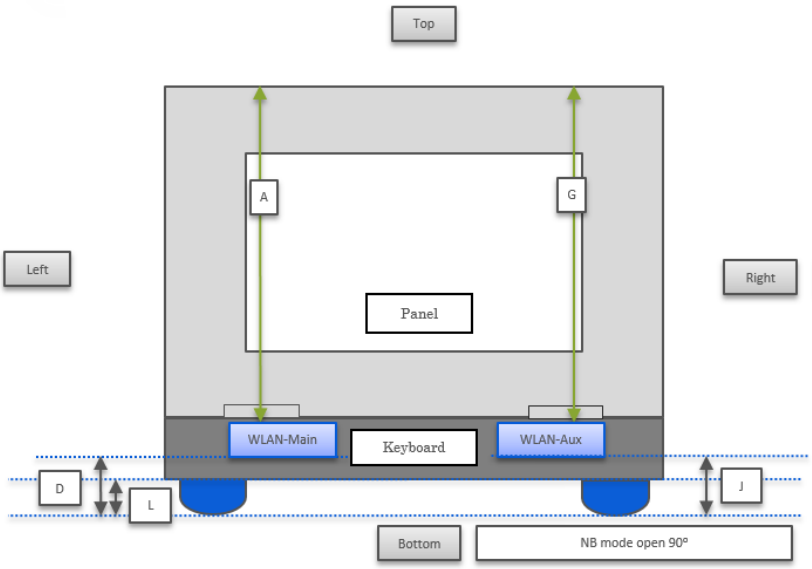
Note: antenna photo should include L type ruler

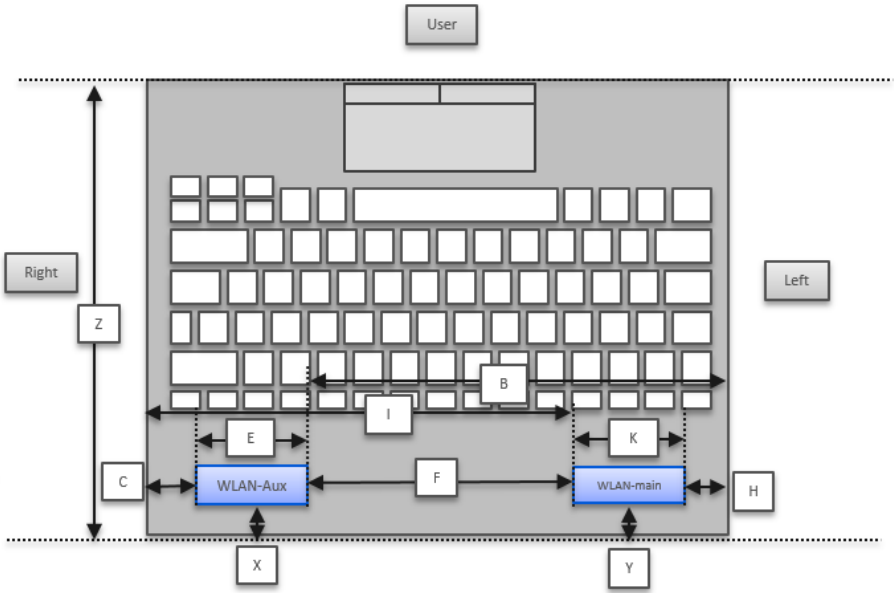
Annex B. Antenna Location

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	1.24
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.