

ANTENNA INFORMATION

OEM	DELL
ODM	Compal Electronics, Inc.
Platform model name	P184G
Intel platform (ex: Yes, No or NA)	Yes
Platform type (ex: regular NB, convertible PC, AIO...etc)	Regular NB
SAR minimum separation (mm)	3 mm (w/bumper) 0.9 mm (w/o bumper)

Antenna manufacturer	Wistron NeWeb Corp.		
Address	20 Park Avenue II (or Yuanchiu 2nd Rd.), Hsinchu Science Park, Hsinchu 300, Taiwan		
Antenna Part number	Main: Antenna P/N: 81ELA715.GA7 Compal P/N: DC33002TP0L	Aux: Antenna P/N: 81ELA715.GA7 Compal P/N: DC33002TP0L	
Antenna type (ex: PIFA, Dipole...etc)	Monopole		

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	2.77	1.75	2.08	1.92	1.03	0.94	3.41	3.19	3.19	2.65
Aux	1.05	2.42	2.37	2.15	3.87	3.94	4.19	1.70	1.11	3.61

Cable Assembly Part Number and Information					
	Cable PN	Cable length(cm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	SY113L/50-143	4.5	1.13	50	Ipex MHF4L
Aux	SY113L/50-118	28.5	1.13	50	Ipex MHF4L

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

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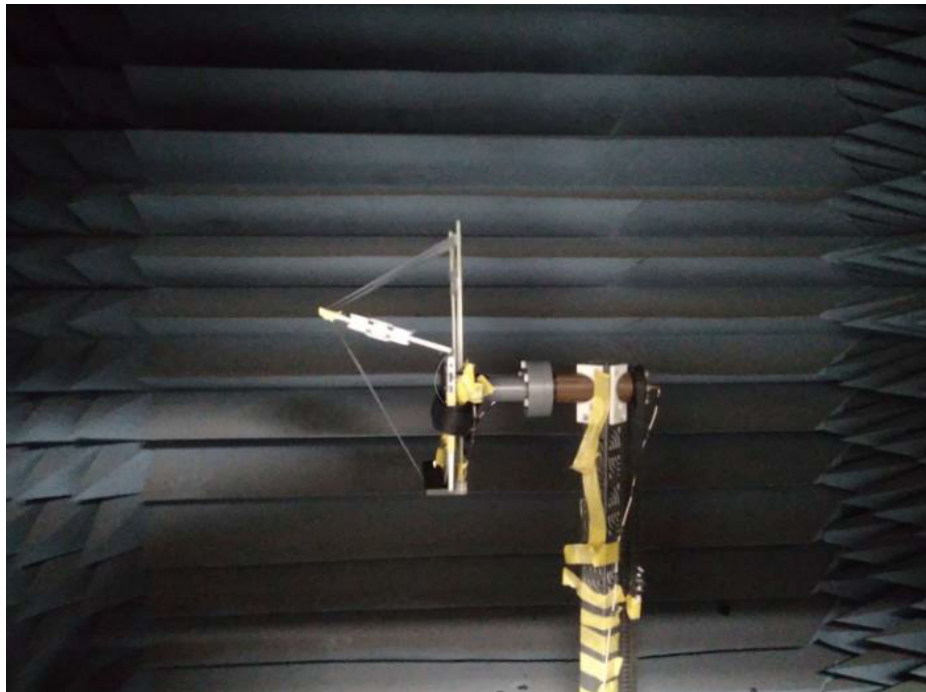
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Annex A. Photographs

A.1 Setup Photo

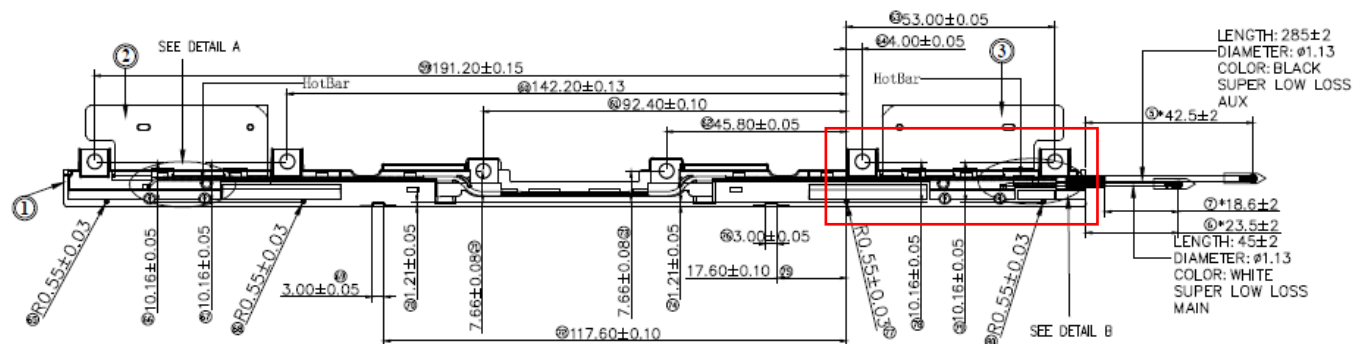
Test Conditions
NB under test placed on a non-conductive structure at sufficient height to be in the 'quiet zone' of the chamber
The NB under test must be fully populated with a power, motherboard, hard drive, disk drives, etc... The purpose is to characterize the antennas on a fully populated customer deliverable unit.
NB's panel should be parallel with XY-plane and face to Y-axle, see diagram below.



A.2 Test sample

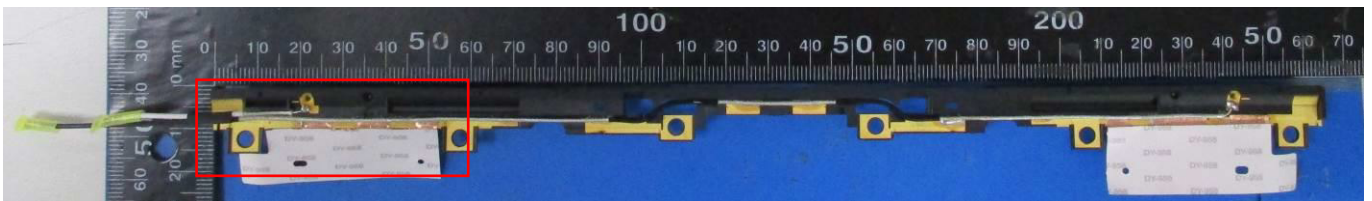
Main Antenna

Antenna Drawing

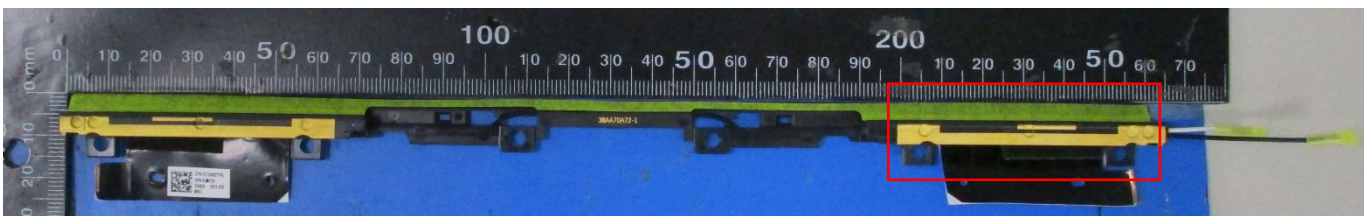


Antenna Photo

Front



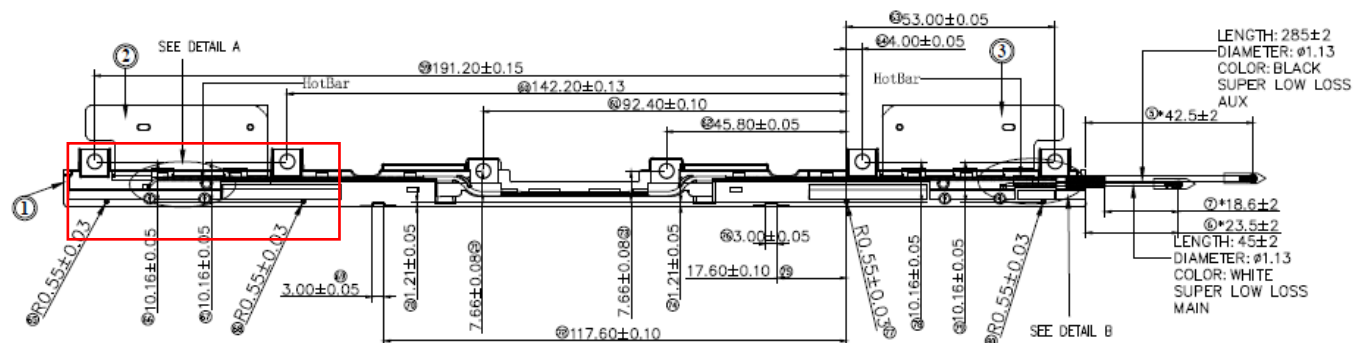
[Back](#)



Note: antenna photo should include L type ruler

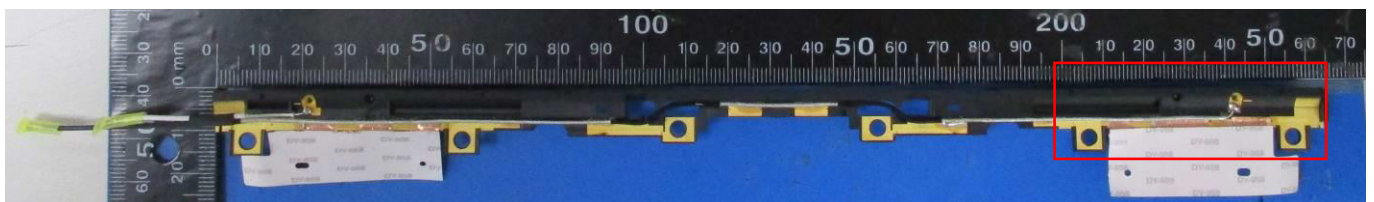
Aux Antenna

Antenna Drawing

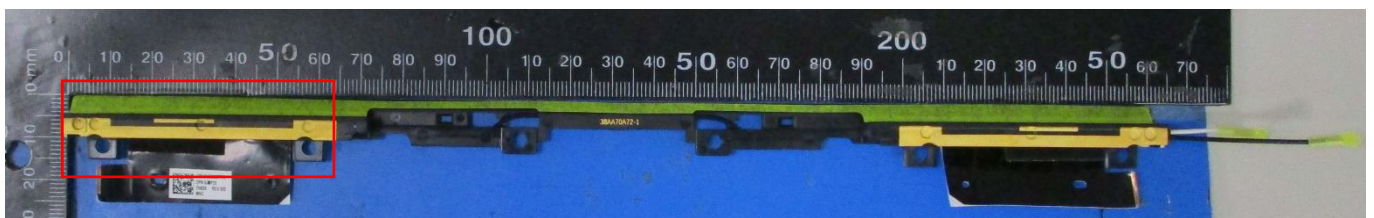


Antenna Photo

Front



Back



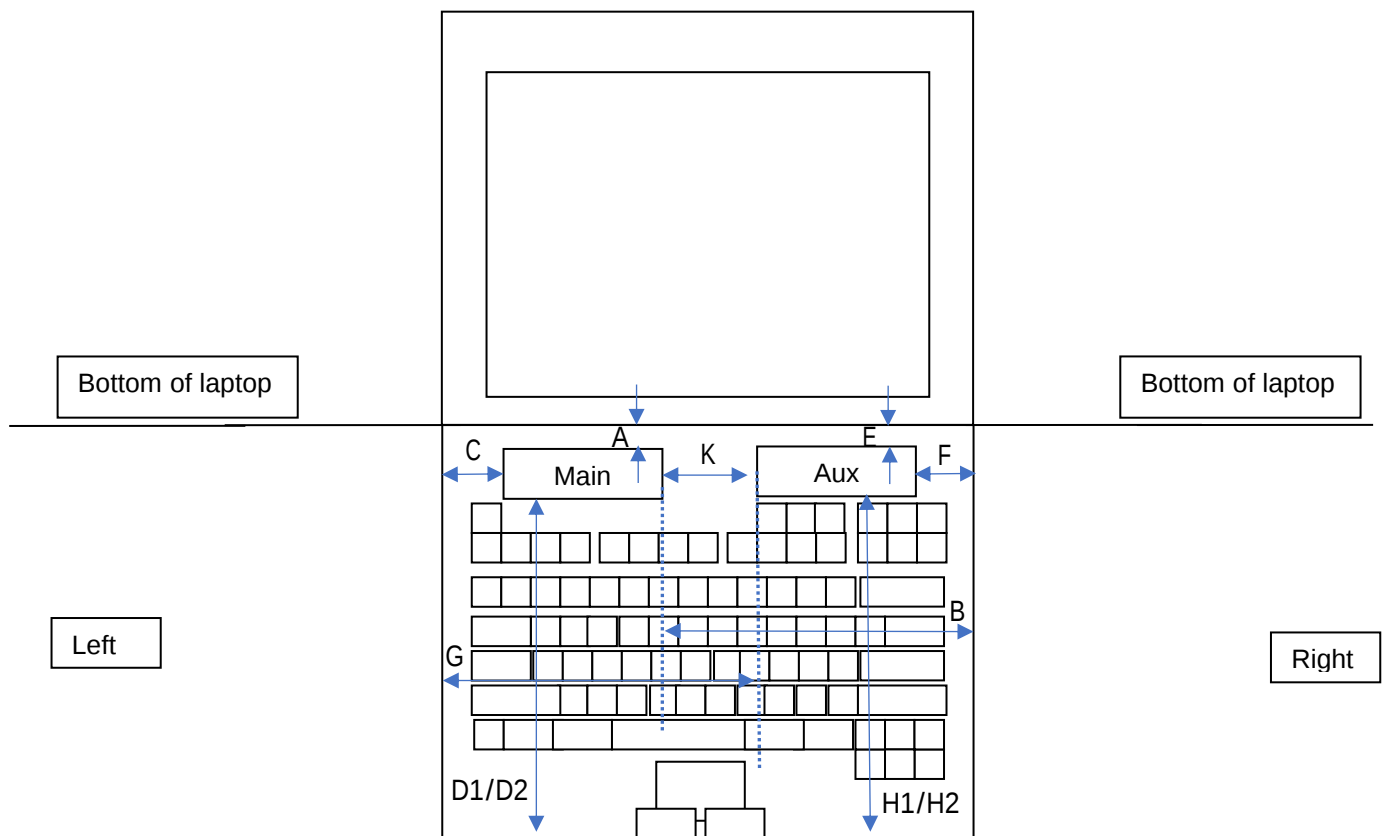
Note: antenna photo should include L type ruler

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-Main	to Top	1.16mm
B	WLAN-Main	to Right	218.55mm
C	WLAN-Main	to Left	29.95mm
D-1	WLAN-Main	to Bottom of Laptop (Include Bumper)	3mm
D-2	WLAN-Main	to Bottom of Laptop (NOT include Bumper)	0.9mm
E	WLAN-Aux	to Top	1.16mm
F	WLAN-Aux	to Right	29.95 mm
G	WLAN-Aux	to Left	218.55mm
H-1	WLAN-Aux	to Bottom of Laptop (Include Bumper)	3mm
H-1	WLAN-Aux	to Bottom of Laptop (NOT include Bumper)	0.9mm
K	WLAN Main	to WLAN Aux	117.2mm

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.

