ANTENNA INFORMATION

OEM	Acer
ODM	Compal
Platform model name	N24C10 (Bluetang_SX1)
Intel platform (ex: Yes, No or NA)	No
Platform type (ex: regular NB, convertible PC, AIO…etc)	Regular NB
SAR minimum separation (mm)	6 (w/o bumper) 9.25 (w/ bumper)

Antenna manufacturer	Company name	Wistron Neweb Corporation
	Address	20 Park Ave.II , Hsinchu Science Park,Hsinchu 308,Taiwan
Test location	Company name	Wistron Neweb Corporation
	Address	20 Park Ave.II , Hsinchu Science Park,Hsinchu 308,Taiwan
Test Personnel	Name(Full name)	Water Chang
	E-mail	Water.Chang@wnc.com.tw
	Tel/Mobile	03-6667799
Testing date		2024/04/26

Antenna Part number	Main	81EAB515.G81(DC33002WV00)
	Aux	81EAB515.G82(DC33002WV10)
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	2.53	2.12	2.12	2.21	2.58	2.58	2.22	2.02	2.62	2.84
Aux	2.71	2.09	2.09	2.30	2.55	2.55	2.60	2.47	2.48	2.83

Cable Assembly Part Number and Information

	Cable PN	**Cable length**(mm)	**Cable diameter**(mm)	**Impedance**(ohm)	**Connector type**
Main	50.EKW01.311	203	1.13	50	I-pex MHF4L
Aux	50.EKW01.313	220	1.13	50	I-pex MHF4L

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

Table of Contents

1. Test & System Description

1.1Measurement Method and System

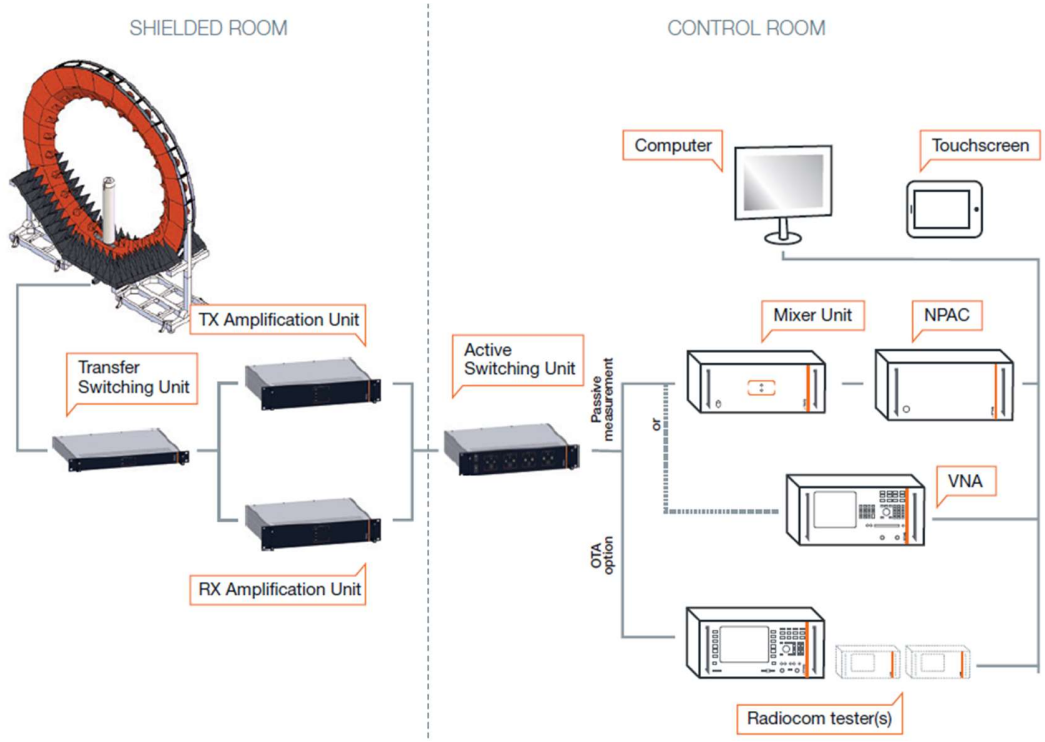
<insert test description here for test method>

This Bluetang_SX1(KH4I0) test report is prepared for host antenna testing under a Full Anechoic Chamber(WNC's Satimo SG24L).

1.2Test setup

<insert test diagram here for test site utilized>

Typical Setup for ETS-Lindgren AMS-8500:



1.3Equipment list

<insert test diagram here for test site utilized>

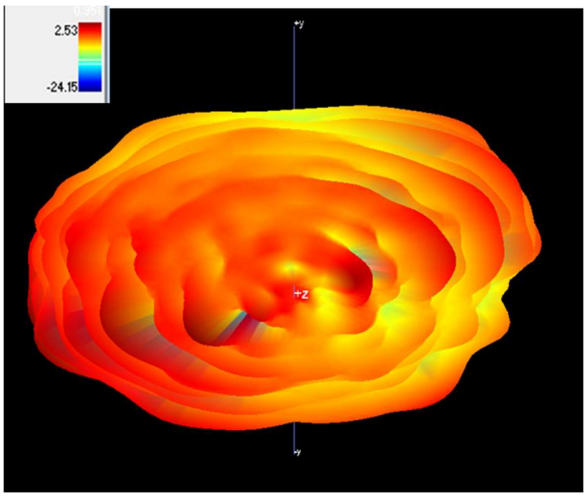
Device	Type / Model	Serial #	Manufacture	Cal. Date	Cal. Du Date
Anechoic Chamber	555-FAC		ChamPro	2023-07-10	2024-07
Antenna Measurement System	SG24-L		MVG-SATIMO	2023-07-10	2024-07
Network Analyzer	VNA / E5080B	MY59203136	Keysight	2023-01-08	2024-07
Tx Amplifier Unit	SG24 Series Accessories		MVG-SATIMO	2023-07-10	2024-07
Rx Amplifier Unit	SG24 Series Accessories		MVG-SATIMO	2023-07-10	2024-07
Probe Select Unit	SG24 Series Accessories		MVG-SATIMO	2023-07-10	2024-07
Motion Control Unit	SG24 Series Accessories		MVG-SATIMO	2023-07-10	2024-07
Power and Control Unit	SG24 Series Accessories		MVG-SATIMO	2023-07-10	2024-07
Array Control Unit	SG24 Series Accessories		MVG-SATIMO	2023-07-10	2024-07
Turn Table	SG24 Series Accessories		MVG-SATIMO	2023-07-10	2024-07
Goniometer	SG24 Series Accessories		MVG-SATIMO	2023-07-10	2024-07
Control Software	WaveStudio		MVG-SATIMO	N/A	N/A
Uninterruptible Power Supply	FT-130H-U		FTUPS	N/A	N/A

2. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

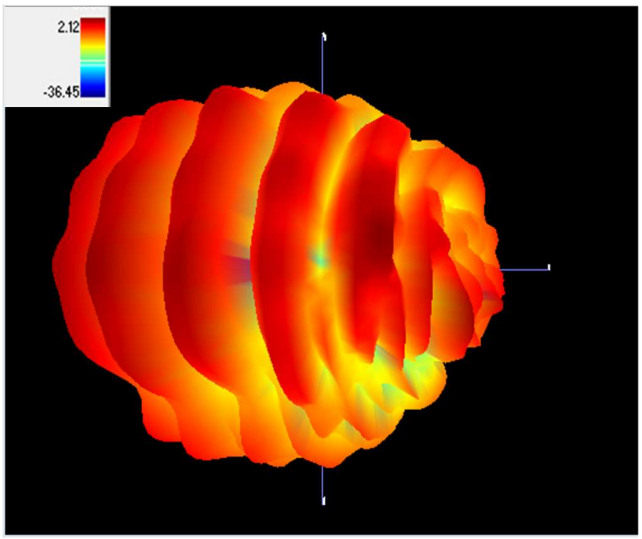
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	2.53



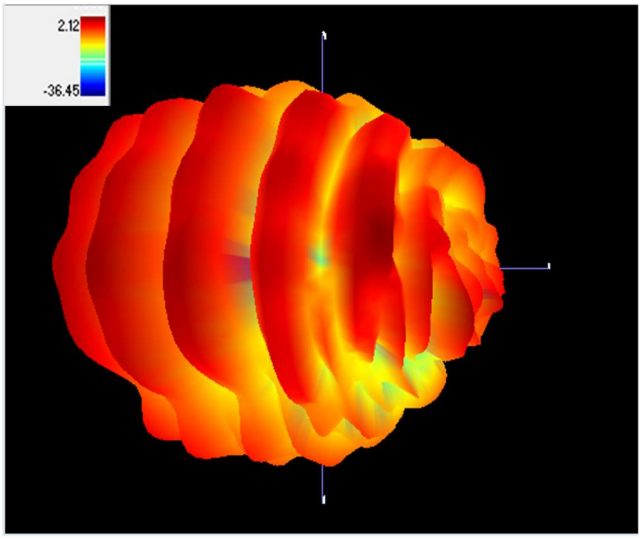
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.12



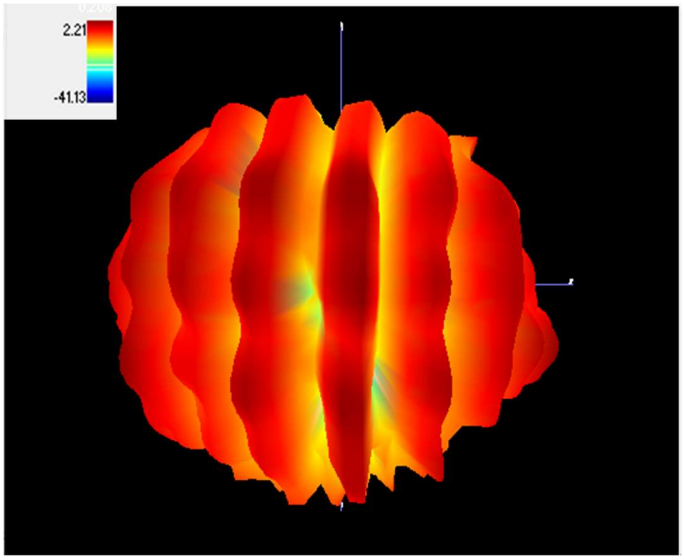
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.12



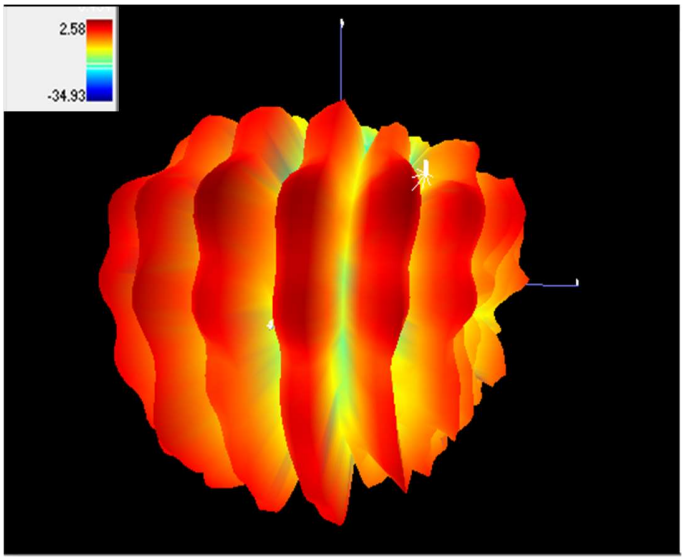
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.21



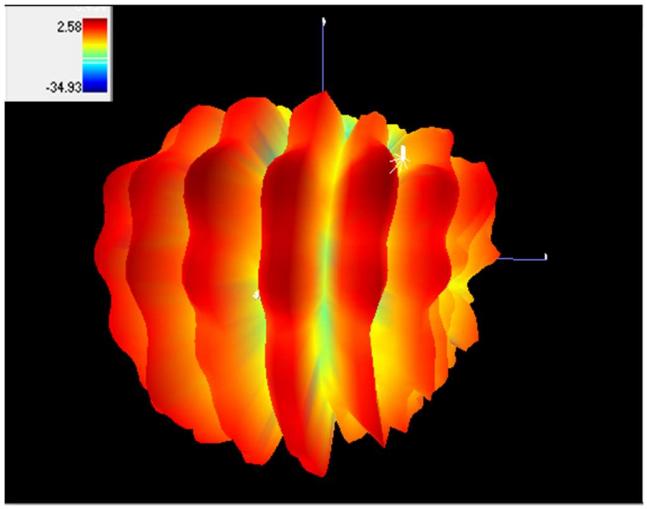
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.58



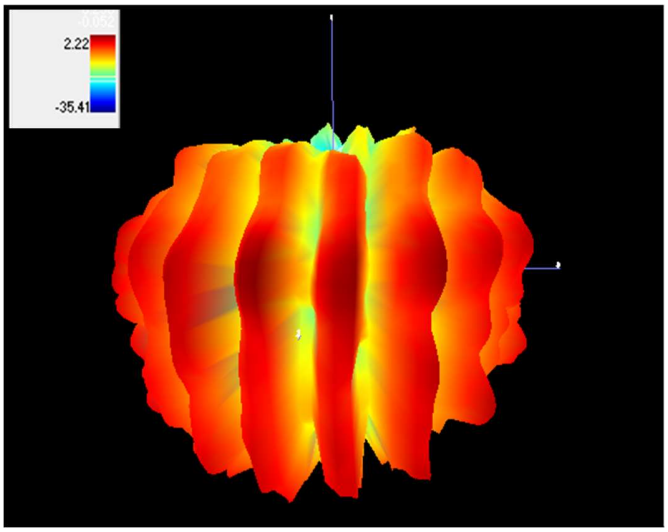
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.58



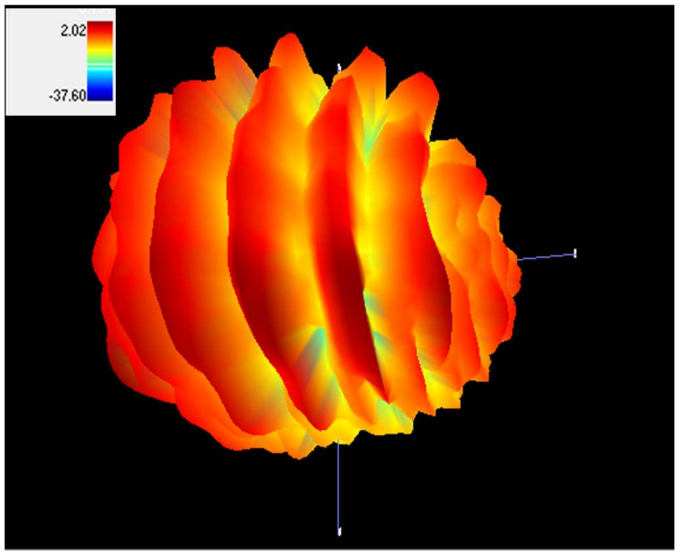
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.22



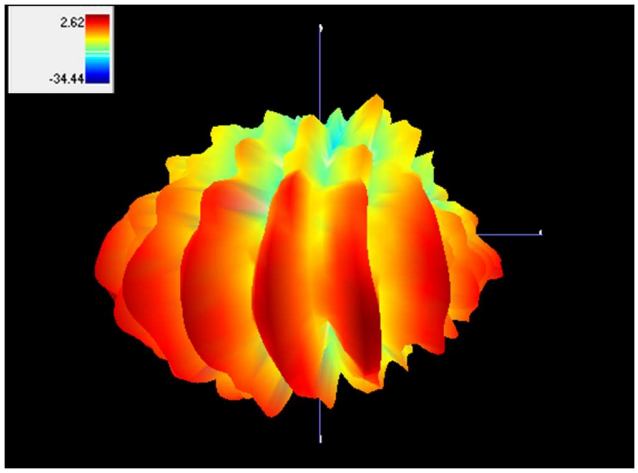
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.02



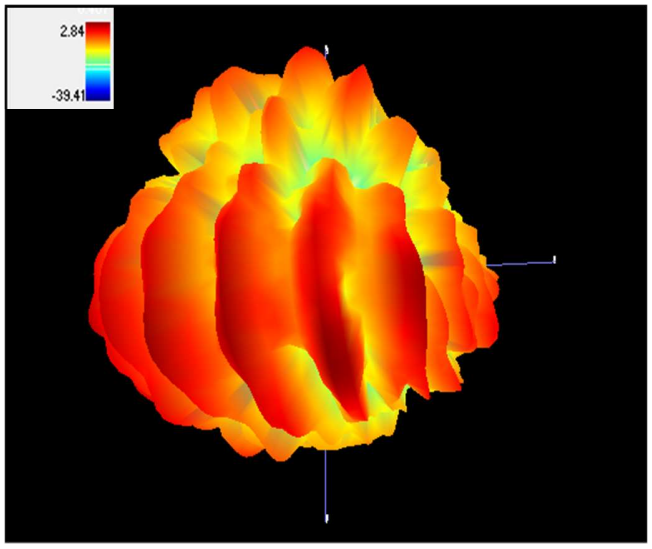
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.62



Max Antenna 3D Radiation Pattern 6875-7125 MHz

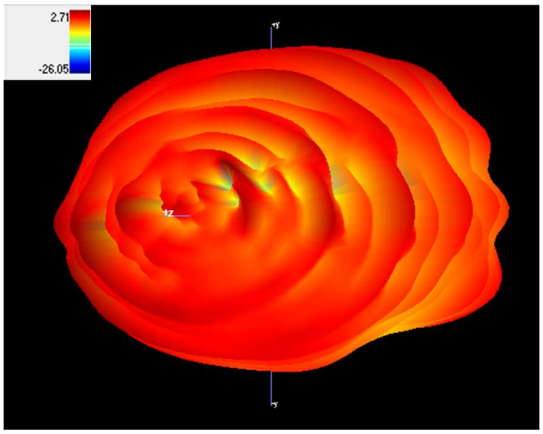
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.84



Auxiliary Antenna

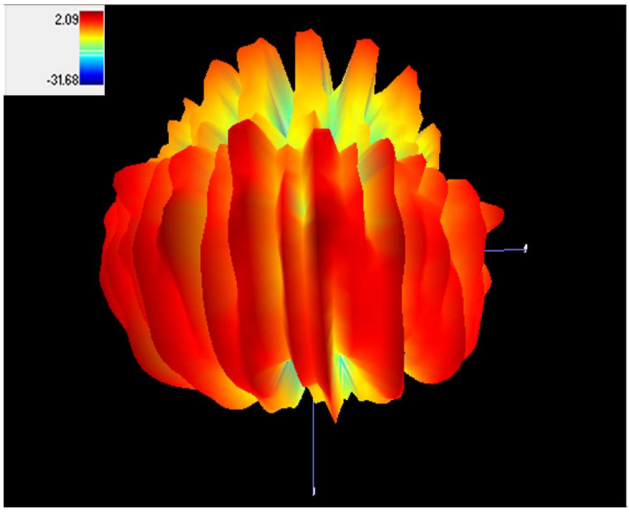
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	2.71



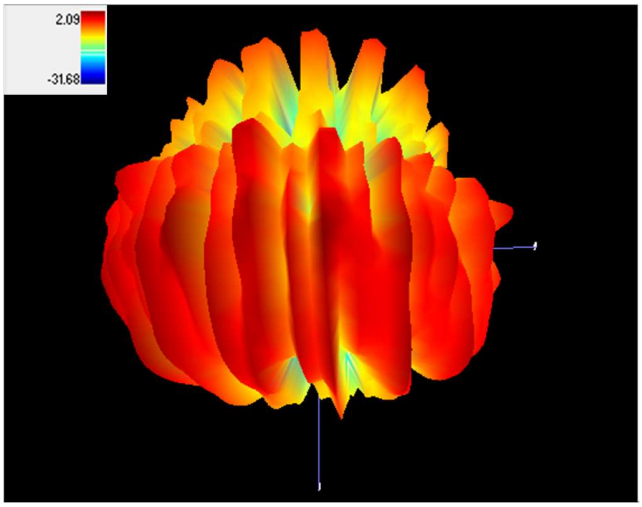
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.09



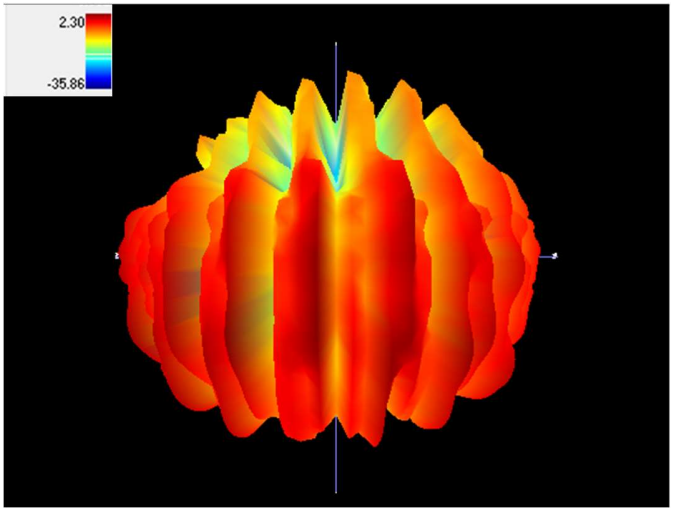
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.09



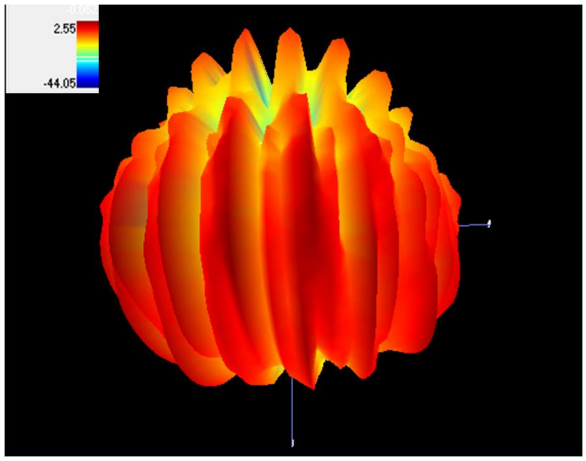
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.30



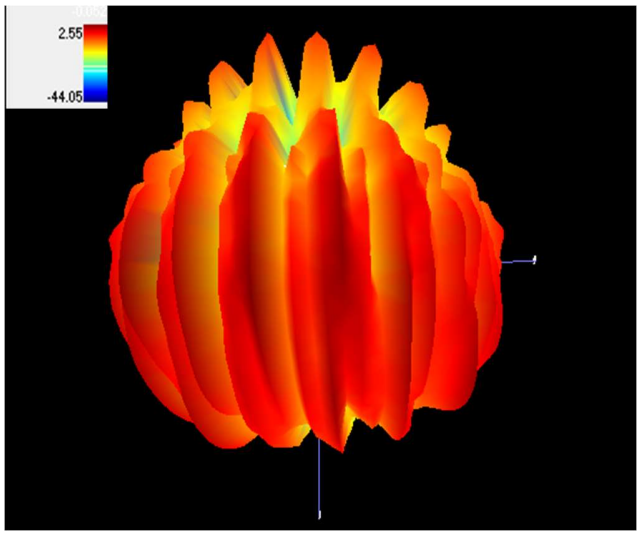
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.55



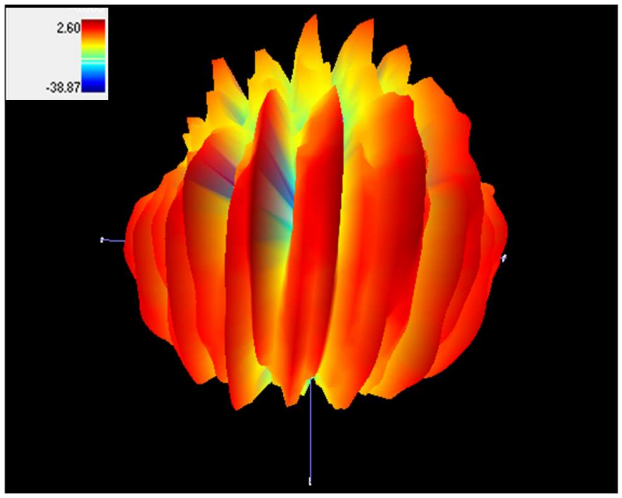
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.55



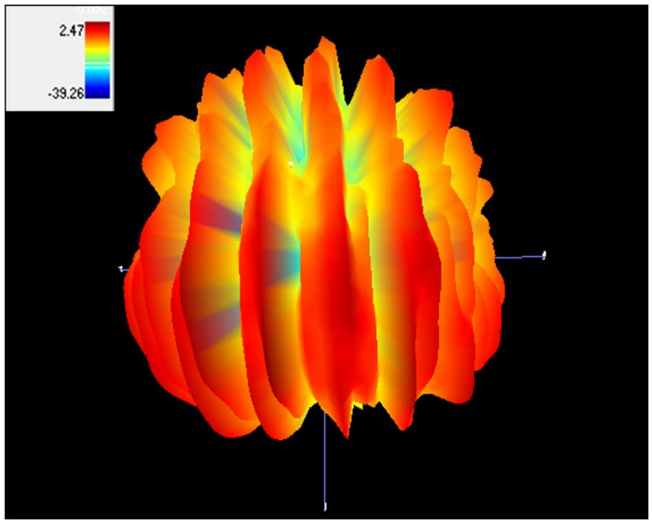
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.60



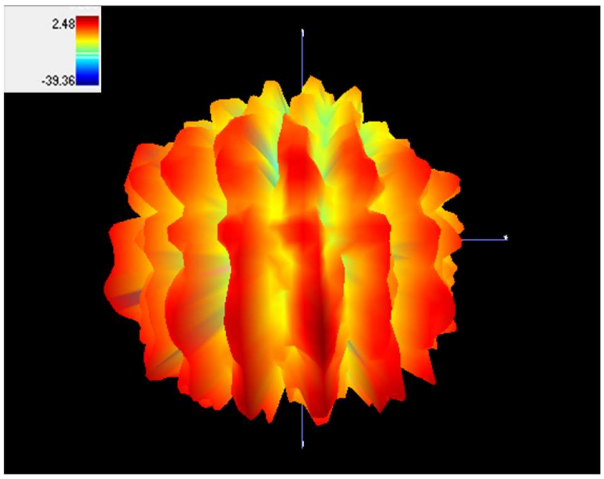
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.47



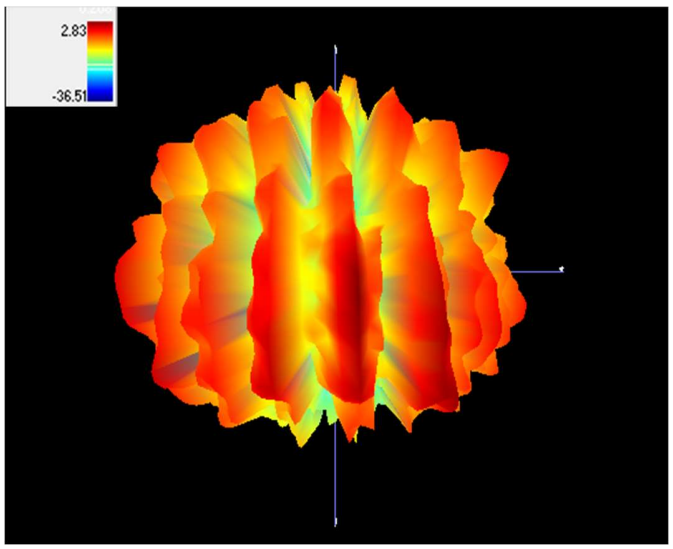
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	2.48



Max Antenna 3D Radiation Pattern 6875-7125 MHz

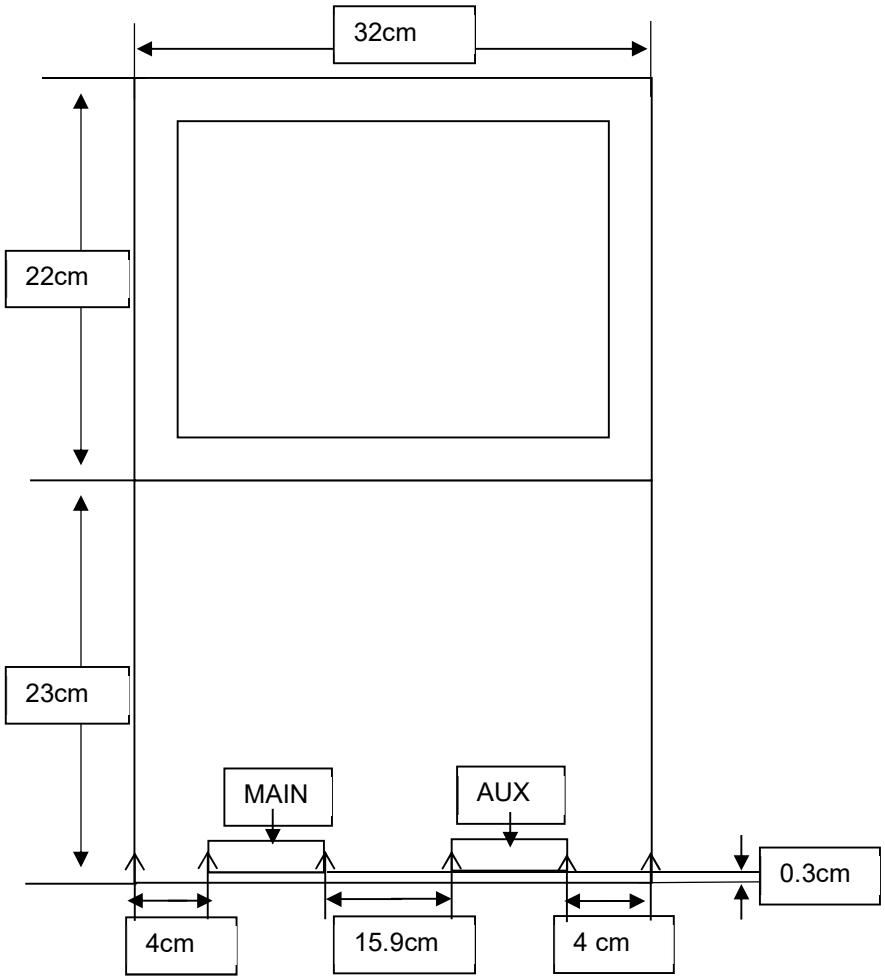
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.83



Annex B. Antenna Location

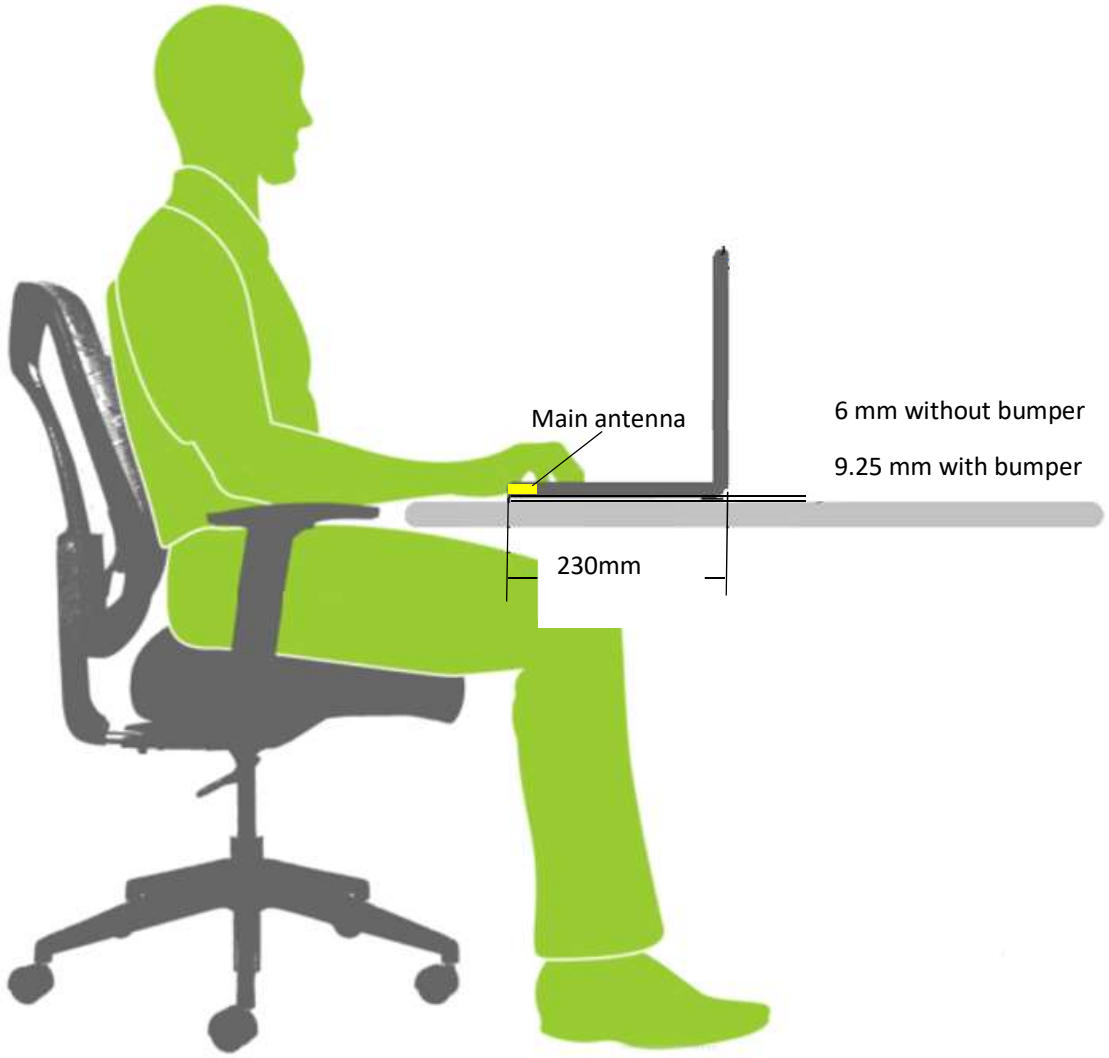
B.1 Antenna Host Platform Location Information

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.



Annex C. Antenna Information

C.1 Antenna Assembly Specifications

1A	1B	1C	1D	Freq Range MHz	1E	1F	1G	1H
Antenna Part Number	Manufacturer	Antenna Type	Cable Assembly Part Number and Information		*Peak Gain W/ Cable loss (dBi)	Peak Gain w/o Cable Loss (dBi)	Max VSWR	Cable Loss (dB)
DC33002WV00 (P/N: 81EAB515.G81) Main Antenna	WNC	PIFA	I-pex MHF4L (P/N: 50.EKW01.311) 50 ohm Coaxial length: 203mm diameter: 1.13mm	2400-2483.5	2.53	3.09	3	0.56
				5150-5250	2.12	2.94	3	0.82
				5250-5350	2.12	2.96	3	0.84
				5470-5725	2.21	3.07	3	0.86
				5725-5850	2.58	3.46	3	0.88
				5850-5895	2.58	3.48	3	0.90
				5925-6425	2.22	3.13	3	0.91
				6425-6525	2.02	2.96	3	0.94
				6525-6875	2.62	3.58	3	0.96
				6875-7125	2.84	3.83	3	0.99
DC33002WV10 (P/N: 81EAB515.G82) Aux Antenna	WNC	PIFA	I-pex MHF4L (P/N: 50.EKW01.313) 50 ohm Coaxial length: 220mm diameter: 1.13mm	2400-2483.5	2.71	3.32	3	0.61
				5150-5250	2.09	2.98	3	0.89
				5250-5350	2.09	3.00	3	0.91
				5470-5725	2.30	3.24	3	0.94
				5725-5850	2.55	3.50	3	0.95
				5850-5895	2.55	3.52	3	0.97
				5925-6425	2.60	3.59	3	0.99
				6425-6525	2.47	3.49	3	1.02
				6525-6875	2.48	3.52	3	1.04
				6875-7125	2.83	3.90	3	1.07