

Regulatory WLAN Antenna Information (Template)

English Language Required for Intel Regulatory Review / Approval

(OEM/ODM or antenna vendor is required to complete this document with platform antenna information.
Remove Intel references and make this your own document)

Platform information											
Brand	ODM	****End product model name	Intel platform (ex: Yes, No or NA)	Platform type (ex: regular NB, convertible PC, AIO...etc)	*SAR minimum separation (mm)						
ASUS	LuxPC Union (Jiashan) Co., Ltd.	A7406CMA	Yes	Regular NB	2.8mm						
*****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection.											
Antenna information											
Vendor		Type	Antenna Part number (Main)				Antenna Part number (Aux)				
KUNSHAN INNOWAVE COMMUNICATION TECHNOLOGY CO., LTD		PIFA	F235R7601112000				F235R7601112000				
Peak gain w/ cable loss (dBi)*											
J	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	1.32	1.35	1.84	2.85	3.01	3.22	2.74	2.88	3.26	2.72	
Aux	1.13	1.55	2.14	2.53	2.87	2.96	3.02	3.15	3.51	2.97	
Intel Reference Gain/Type/ Separation distance											
Antenna Type	Antenna Peak gain (In dBi)*										Distance to the end user (mm)
	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	7.0GHz 6875-7125MHz	Generic: refer to modular FCC SAR report Mid-power: ≥ 8 mm Low power: ≥ 5 mm
	Design	3.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	
	PIFA	3.24	3.64	3.73	4.77	4.97	4.72	4.83	4.30	5.37	
Dipole	2.89	2.92	3.19	4.41	4.22	4.22	4.83	4.30	4.49	5.34	
Notes (marked with *)											
* SAR minimum separation (mm)											
- Regular NB: Minimum antenna-to-body (from antenna bottom to the bottom of the device)											
- Tablet / Convertible PC: Minimum antenna-to-edge (5 sides of the device)											
- Mini-tablet: Minimum antenna-to-edge (6 sides of the device)											
* 3D Peak Antenna gain should be equal or greater than -2 dBi											
- If a host integrator plans to use a lower gain antenna of the same type, additional CBP(FCC)/EDT(EU) testing need to be performed while the module is installed in the host.											

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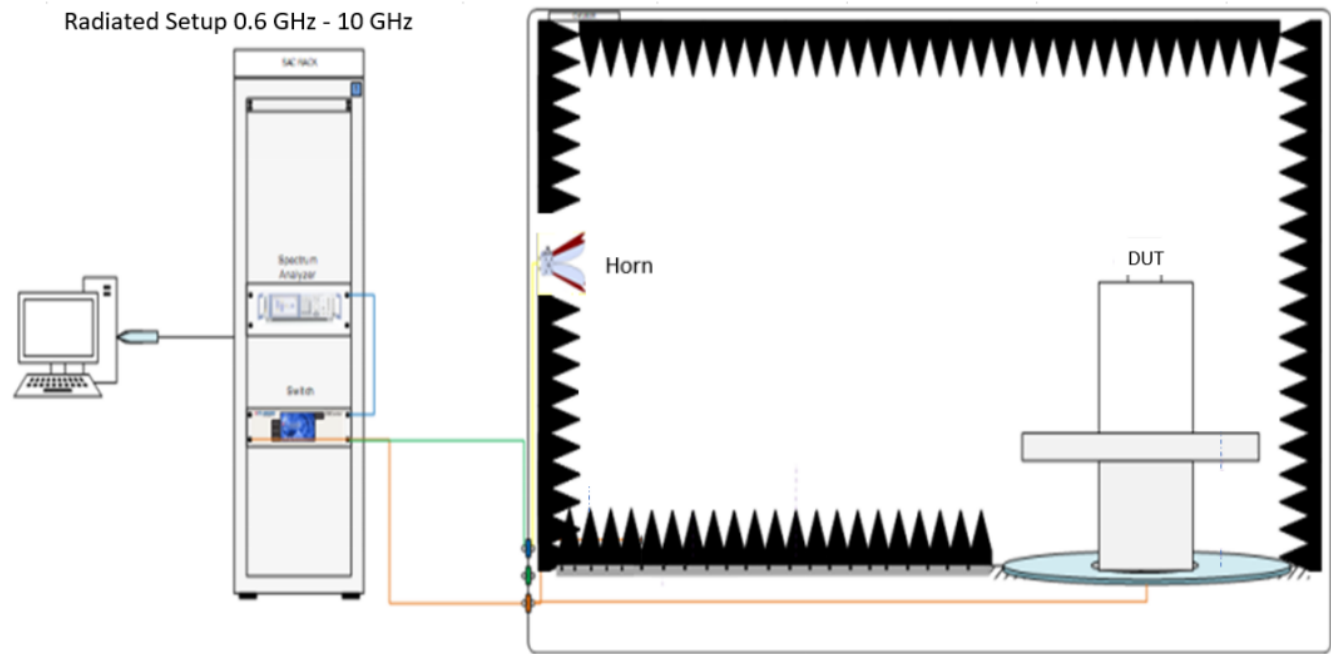
[Section 6. Diagram Example of Co-Location Antenna Separation](#)

1. Applicable test methods

This test report is prepared by testing in a dark room that is completely silenced and shielded from external signals.

2. Test & System Description

a. Test setup



b. Equipment list

Anechoic Chamber

Number	Device	Type/Model	Serial	Manufacturer	Cal. Date	Cal. due Date
1	Chamber	FATC3	5720	ETS-Lindgren	2025/12/14	2026/12/13
2	Turn table control box	ETS	-	ETS-Lindgren	N/A	N/A
3	Turn table control computer	Desktop	LPTPTOP-JQITOKRA	LENOVO	N/A	N/A
4	Notwork Analyzer	5071C	5071C	Keysight	2025/12/14	2026/12/13
5	Hron Antenna	3117	E00157734	Bwant	2025/12/14	2026/12/13
6	Test system host	EMC Center	159757	ETS-Lindgren	N/A	N/A
7	RF Line TX	UFA147A-0-0480-200200	IFR64639223720	Micro-coax	2025/12/11	2026/12/10
8	RF Line RX	UFA147A-0-0480-200200	IFR64639223720	Micro-coax	2025/12/11	2026/12/10
9	Cable 2m 1GHz-8.5GHz	UFA147A-0-0480-200200	IFR64639223720	Micro-coax	2025/12/11	2026/12/10
10	Optical fiber line	RXY-00727-1603	-	Jmtt	N/A	N/A
11	Cable 2.5m 1GHz-8.5GHz	UFA147A-0-0480-200200	IFR64639223720	Micro-coax	2025/12/14	2026/12/13
12	Cable 1.2m 1GHz-8.5GHz	UFA147A-0-0480-200200	IFR64639223720	Micro-coax	2025/12/14	2026/12/13
13	Cable 1m 1GHz-8.5GHz	UFA147A-0-0480-200200	IFR64639223720	Micro-coax	2025/12/14	2026/12/13
14	Cable 2m 1GHz-8.5GHz	UFA147A-0-0480-200200	IFR64639223720	Micro-coax	2025/12/11	2026/12/10
15	Cable 1m 1GHz-8.5GHz	UFA147A-0-0480-200200	IFR64639223720	Micro-coax	2025/12/11	2026/12/10
16	Temp&Humidity Logger	RA12E-TH1-RAS	RA12-DOEB1A	Avtech	2025/12/11	2026/12/10

Antenna Information

Section 1. Antenna Assembly Specifications

1A	1B	1C	1D		1E	1F	1G	1H
Antenna Part Number	Manufacturer	Antenna Type	Cable Assembly Part Number and Information	Freq Range MHz	* Peak Gain W/ Cable loss (dBi)	Peak Gain w/o Cable Loss (dBi)	Max VSWR	Cable Loss (dB)
P/N: F235R7601112000- Main Antenna (TX1)	INNOWAVE	PIFA	(P/N:KANGSUO MHFB13L-N.01) 50 ohm Coaxial length108.5mm diameter: 1.13LL	2400-2483.5	1.32	1.58	3	0.26
				5150-5250	1.35	1.61	3	0.26
				5250-5350	1.84	2.23	3	0.39
				5470-5725	2.85	3.26	3	0.41
				5725-5850	3.01	3.43	3	0.42
				5850-5895	3.22	3.64	3	0.42
				5925-6425	2.74	3.16	3	0.42
				6425-6525	2.88	3.32	3	0.44
				6525-6875	3.26	3.71	3	0.45
				6875-7125	2.72	3.18	3	0.46
P/N: F235R7601112000- Aux Antenna (TX2)	INNOWAVE	PIFA	(P/N:KANGSUO MHFB13L-N.01) 50 ohm Coaxial length:53.5mm diameter:1.13LL	2400-2483.5	1.13	1.27	3	0.14
				5150-5250	1.55	1.76	3	0.21
				5250-5350	2.14	2.35	3	0.21
				5470-5725	2.53	2.75	3	0.22
				5725-5850	2.87	3.09	3	0.22
				5850-5895	2.96	3.18	3	0.22
				5925-6425	3.02	3.25	3	0.23
				6425-6525	3.15	3.38	3	0.23
				6525-6875	3.51	3.75	3	0.24
				6875-7125	2.97	3.21	3	0.24

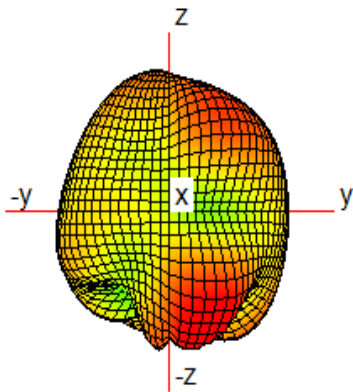
- 3D Antenna Peak Gain required being test in system basis.

Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

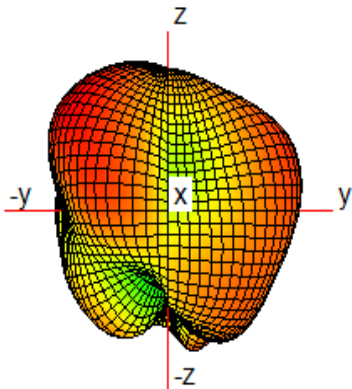
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.32



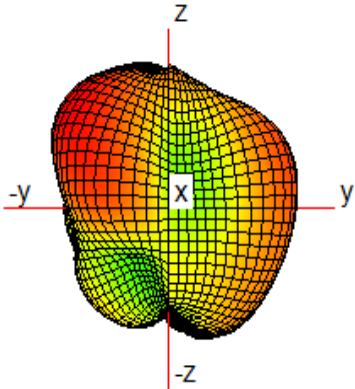
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	1.35



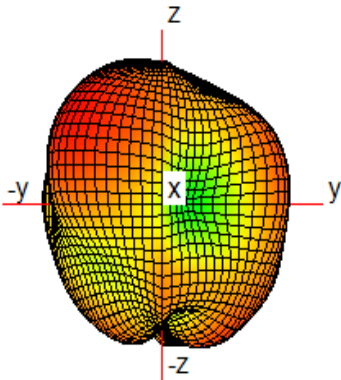
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	1.84



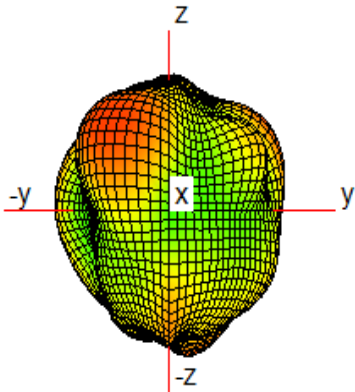
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.85



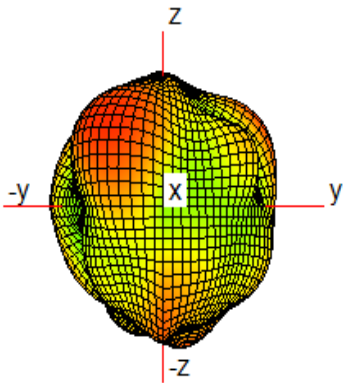
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	3.01



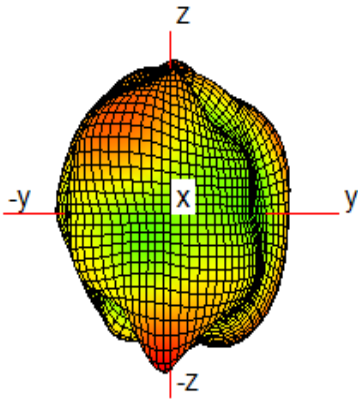
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.22



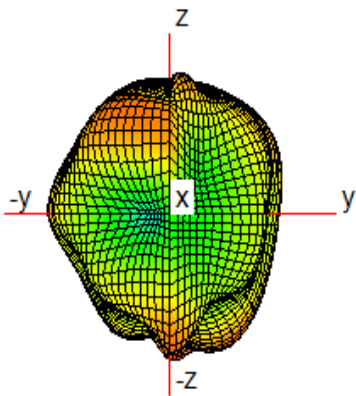
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	2.74



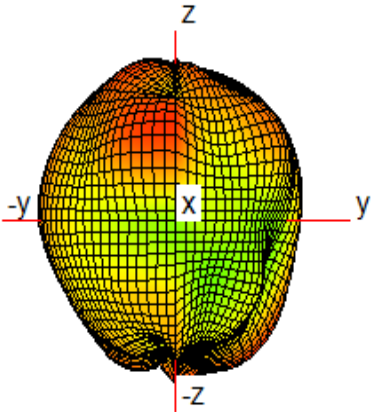
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	2.88



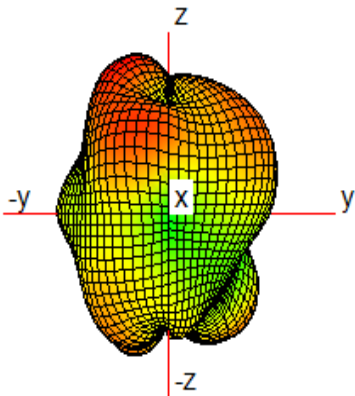
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.26



Max Antenna 3D Radiation Pattern 6875-7125 MHz

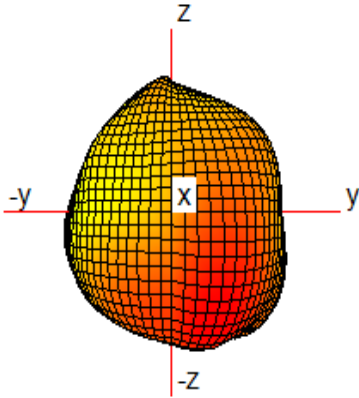
Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.72



Auxiliary Antenna

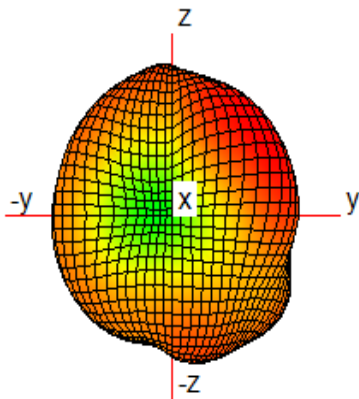
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.13



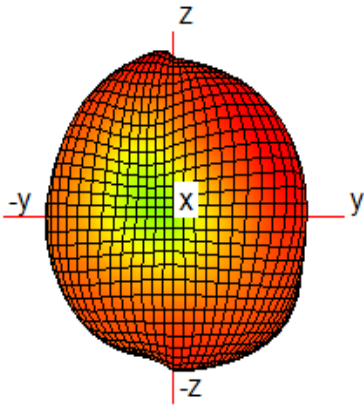
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	1.55



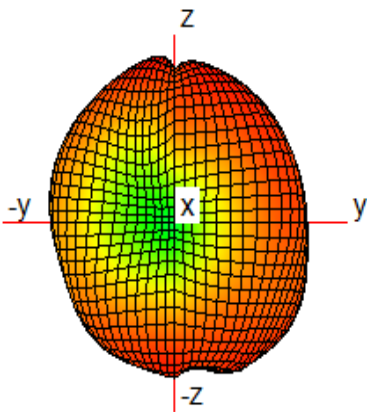
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	2.14



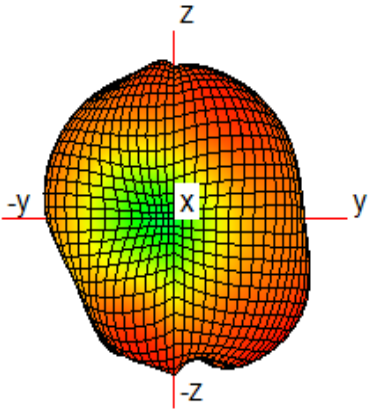
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	2.53



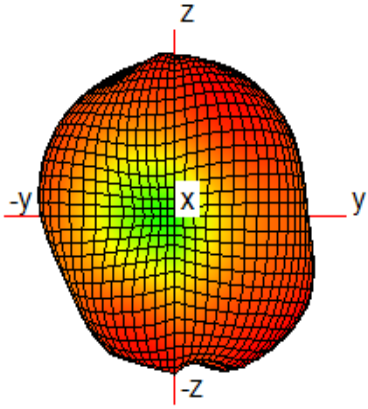
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	2.87



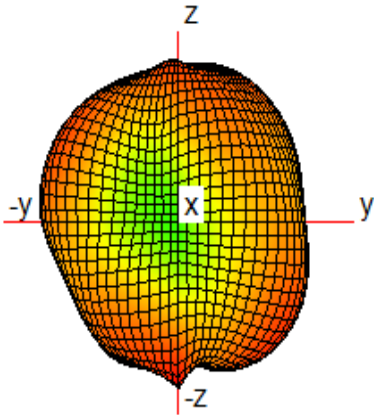
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	2.96



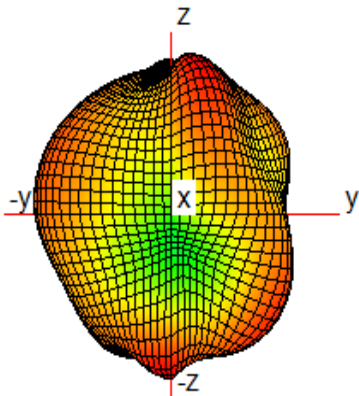
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	3.02



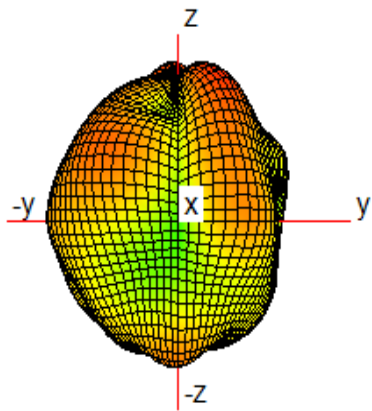
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	3.15



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.51



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.97

