

ANTENNA INFORMATION

OEM	Sony Group Corporation
ODM	
Platform model name	
Intel platform (ex: Yes, No or NA)	
Platform type (ex: regular NB, convertible PC, AIO...etc)	
SAR minimum separation (mm)	No

Antenna manufacturer	WebCom Communication (Kunshan) Corporation.	
Address	No.6, 88 Central Avenue, Kunshan City, Jiangsu Province, China	
Antenna Part number	Main: 102550611	Aux: 102550711
Antenna type (ex: PIFA, Dipole...etc)	LOOP	

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	1.44	2.81	3.58	3.80	3.68	3.20	4.20	4.01	3.93	2.70
Aux	1.32	2.37	3.26	3.65	3.35	3.14	4.02	4.08	3.95	2.64

Cable Assembly Part Number and Information					
	Cable PN	Cable length(cm)	Cable diameter(mm)	Impedance(ohm)	Connector type
Main	81XYBP15.G01	5.98	1.37	50 ohm Coaxial	MHF4LK(IPEX)
Aux	81XYBP15.G02	10.47	1.37	50 ohm Coaxial	MHF4LK(IPEX)

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

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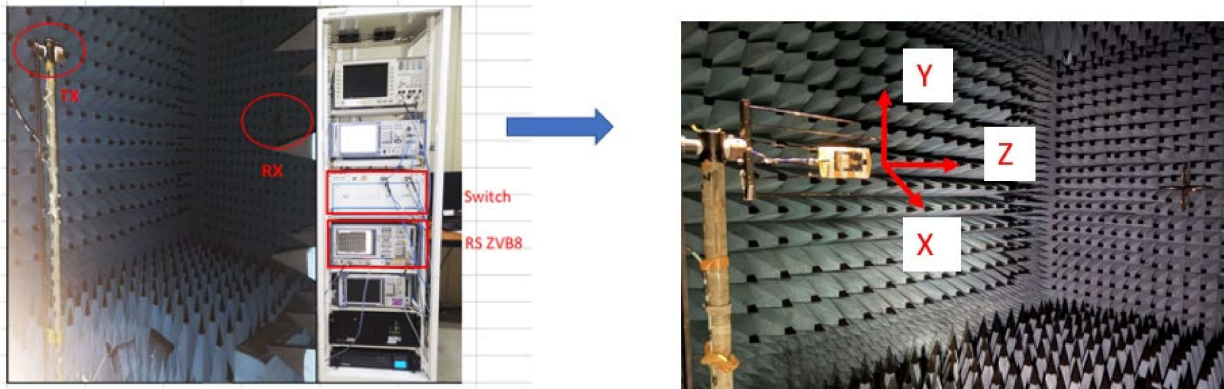
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1. Document Revision History

Revision #	Revision Details	Issued Date
Rev.A00	First Issue	2025.07

2. Test & System Description

2.1 Measurement Method and System



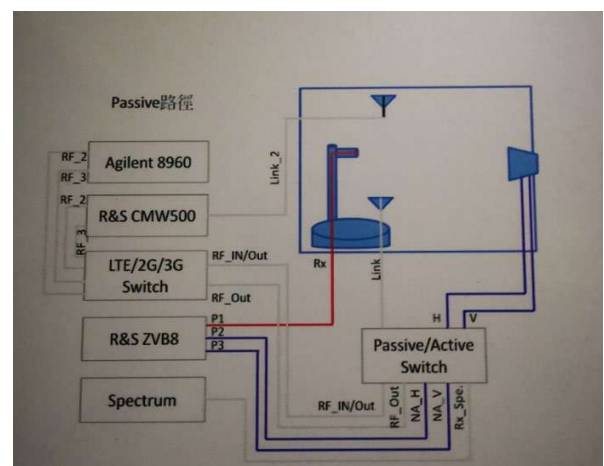
As right picture, lay it on chamber transmitting terminal, RX antenna receive the signal and feedback to Network analyzer, then test result come out by software calculating

2.2 Test setup

Test Environment



Test Philosophy



2.3 Equipment list



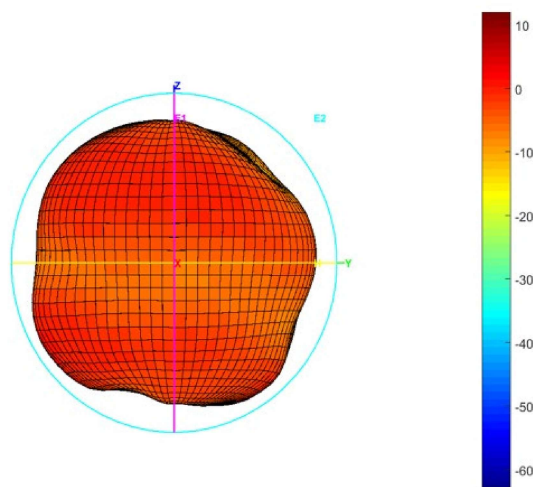
Equipment list						
NO.	Device	Type/Model	Serial#	Manufacturer	Cal-Date	Cal.DueDate
1	Chamber	\	\	ATEN LAB	2025.04.24	2025.10.24
2	Software	\	\	ATEN LAB	\	\
3	Active/passive switch	\	\	ATEN LAB	\	\
4	Network analyzer	ZVB8	1145.1010.10	R&S	2025.1.17	2026.1.16
5	Horn antenna	BBHX9120E	\	SCHWARZBECK	2020.06.22	\
Tester: Dongxiu Ma Sign: <i>Dongxiu Ma</i> Test Date: 2025.07						

3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

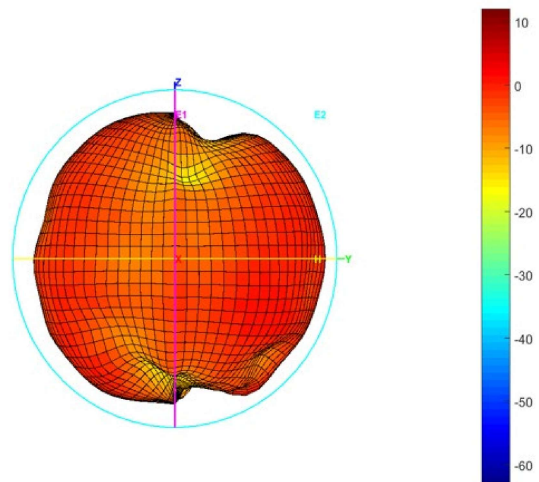
Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
2400-2483.5	1.44



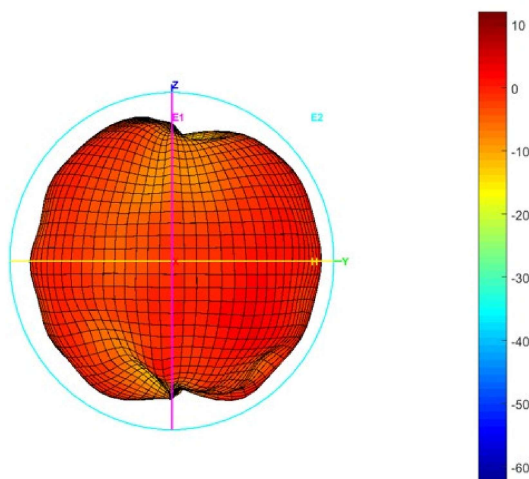
Max Antenna 3D Radiation Pattern 5150-5250 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.81



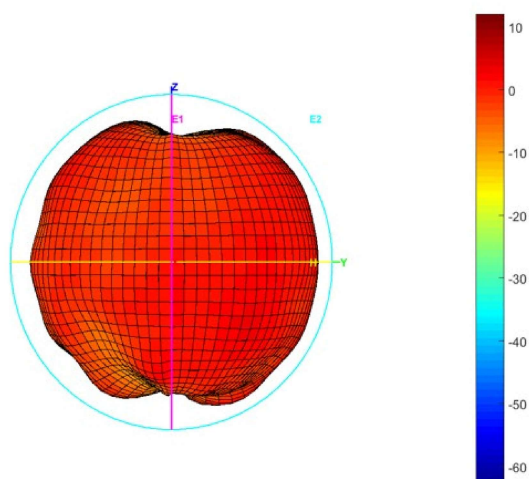
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	3.58



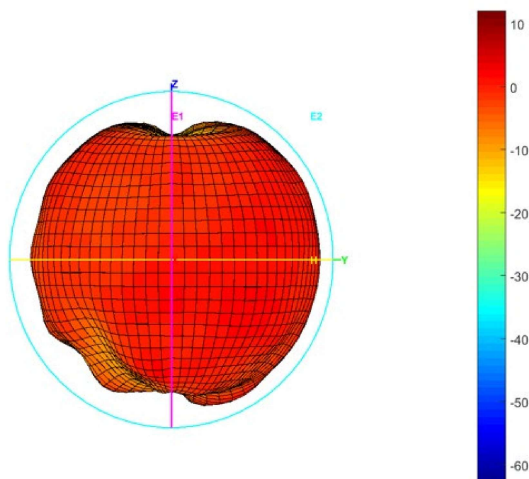
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.80



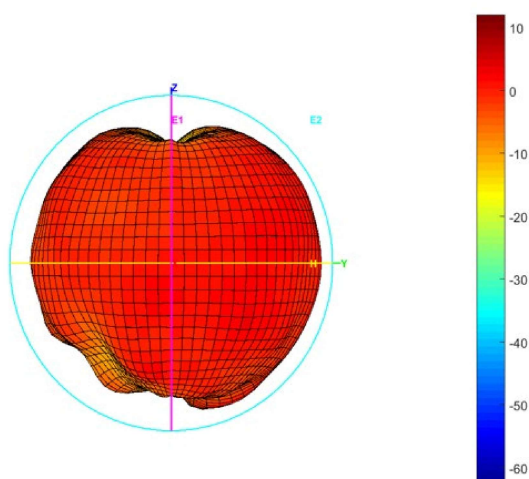
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	3.68



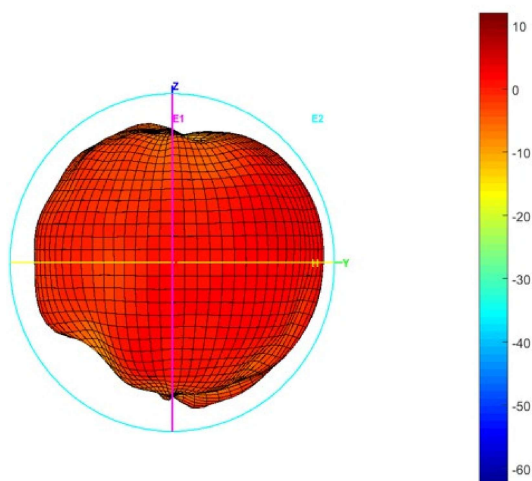
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.20



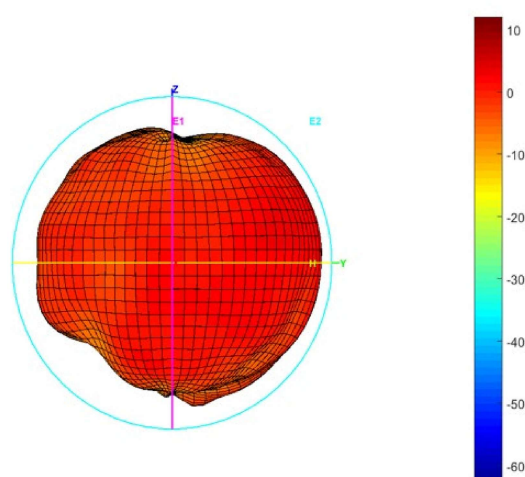
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	4.20



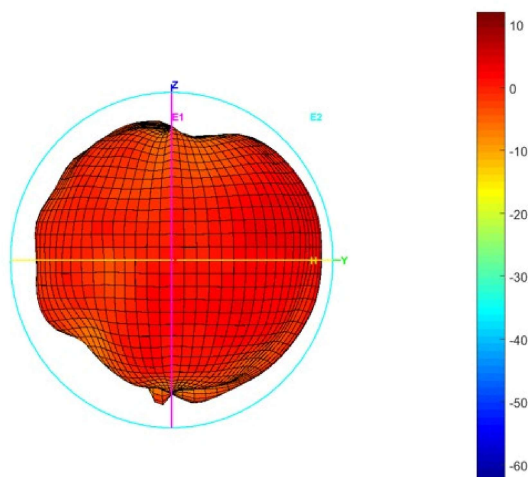
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	4.01



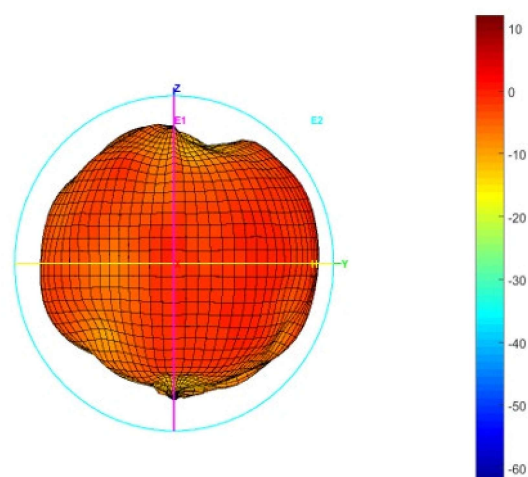
Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.93



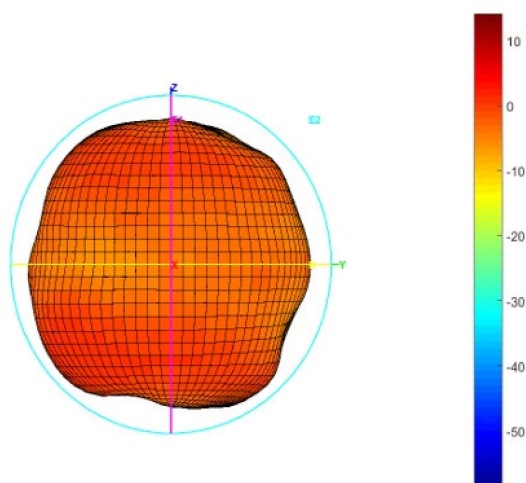
Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.70

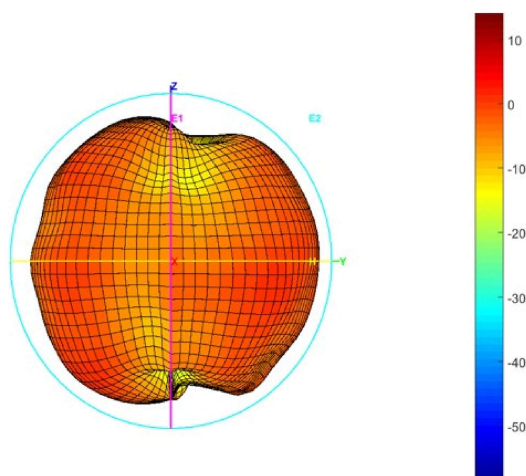


Auxiliary Antenna**Max Antenna 3D Radiation Pattern 2400 – 2483.5 MHz**

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

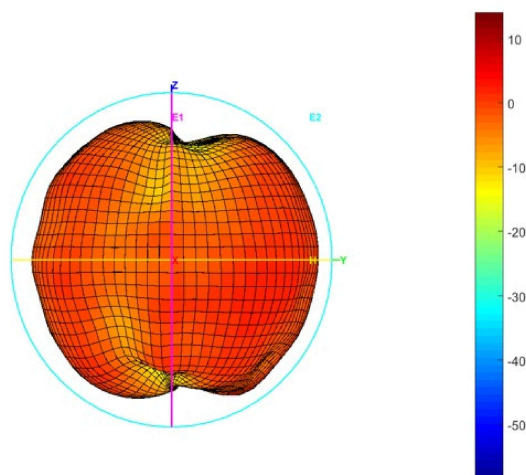
**Max Antenna 3D Radiation Pattern 5150-5250 MHz**

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5150-5250	2.37



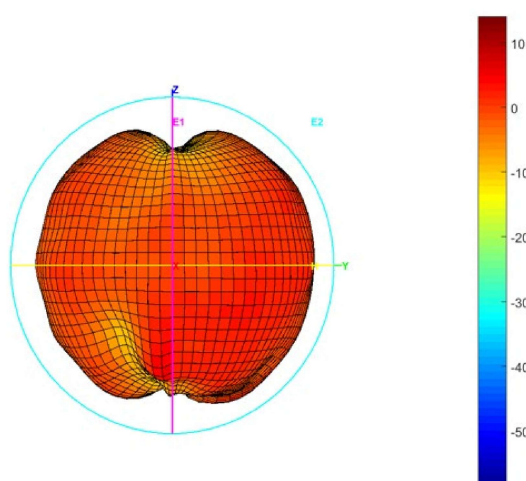
Max Antenna 3D Radiation Pattern 5250-5350 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5250-5350	3.26



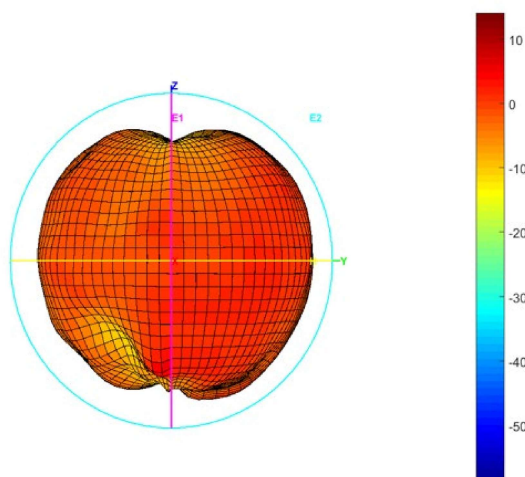
Max Antenna 3D Radiation Pattern 5470-5725 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5470-5725	3.65



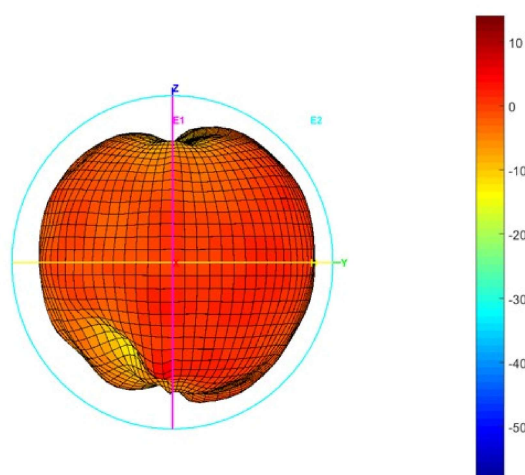
Max Antenna 3D Radiation Pattern 5725-5850 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5725-5850	3.35



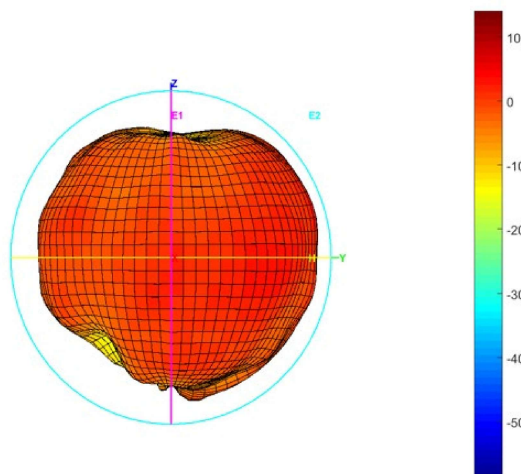
Max Antenna 3D Radiation Pattern 5850-5895 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5850-5895	3.14



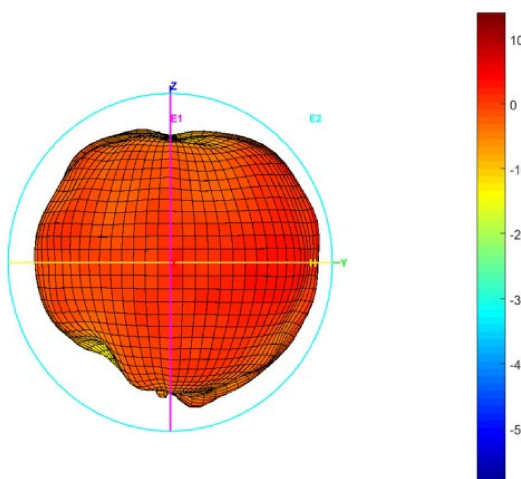
Max Antenna 3D Radiation Pattern 5925-6425 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
5925-6425	4.02



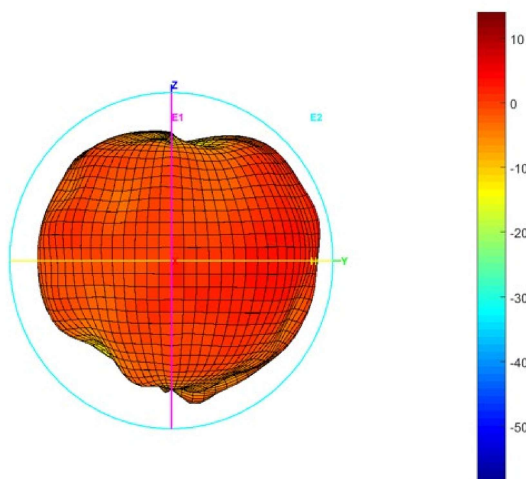
Max Antenna 3D Radiation Pattern 6425-6525 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6425-6525	4.08



Max Antenna 3D Radiation Pattern 6525-6875 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6525-6875	3.95



Max Antenna 3D Radiation Pattern 6875-7125 MHz

Frequency (MHz)	Peak Gain w/ Cable Loss (dBi)
6875-7125	2.64

