

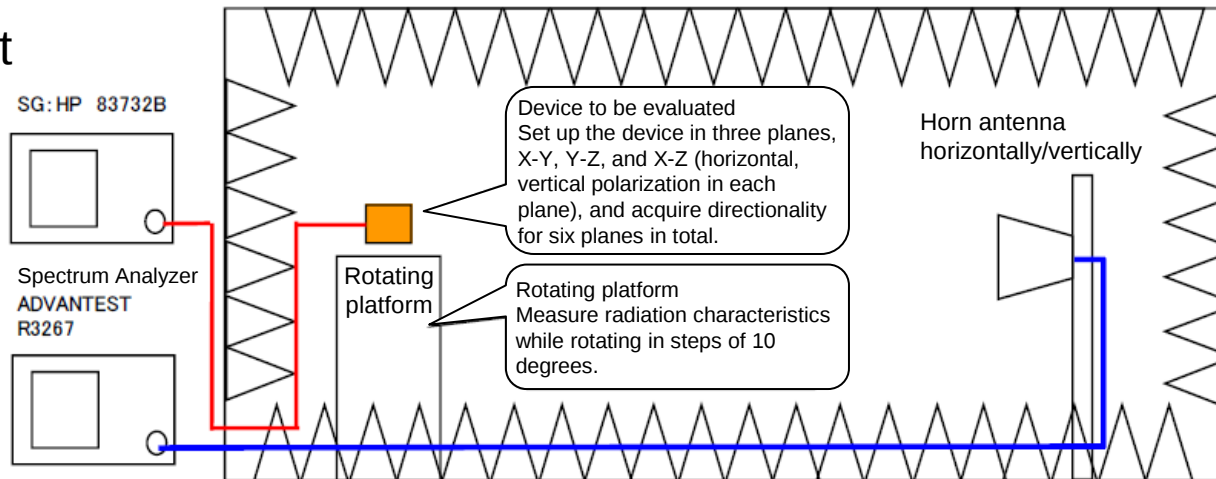
1. Measurement Conditions, etc.

- Measured on: 2023/06/23

Measured by: Takeshi Takeuchi

Wave Technology Inc.

- System of measurement



- Measurement method

- Antenna substitution method

- Reference antenna

MA5612B4 (2.25 ~ 2.6GHz)

MA5612C4 (4.6 ~ 5.3GHz)

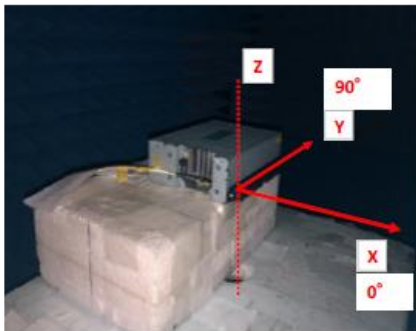
MA5612C5 (5.3 ~ 6GHz)

2. BT Antenna (radiation characteristics)

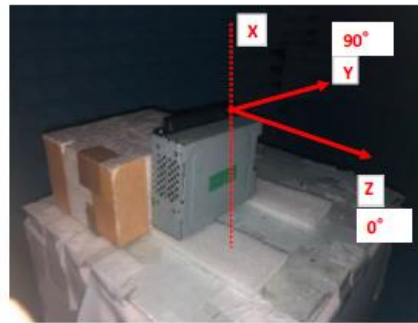
• Antenna gain

	Measuring plane	Polarized wave	Frequency(MHz)			Remarks
			2402	2440	2480	
Radiant gain [dBi]	X-Y plane	Evxy	-7.2	-6.8	-8.1	Average value at each measuring plane
		Ehxy	-2.7	-3.6	-3.6	
	Y-Z plane	Evyz	-3.8	-3.8	-3.2	
		Ehyz	-4.7	-4.6	-6.0	
	X-Z plane	Evxz	-5.7	-6.6	-9.8	
		Ehxz	-9.5	-8.7	-7.8	
	3-plane average		-2.1	-2.3	-2.8	-
	Maximum value		1.9	1.0	1.2	Maximum value in all measurement planes

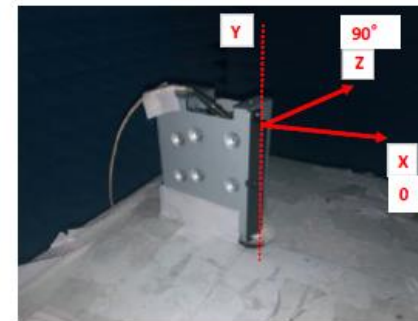
• Measuring axis



X-Y plane



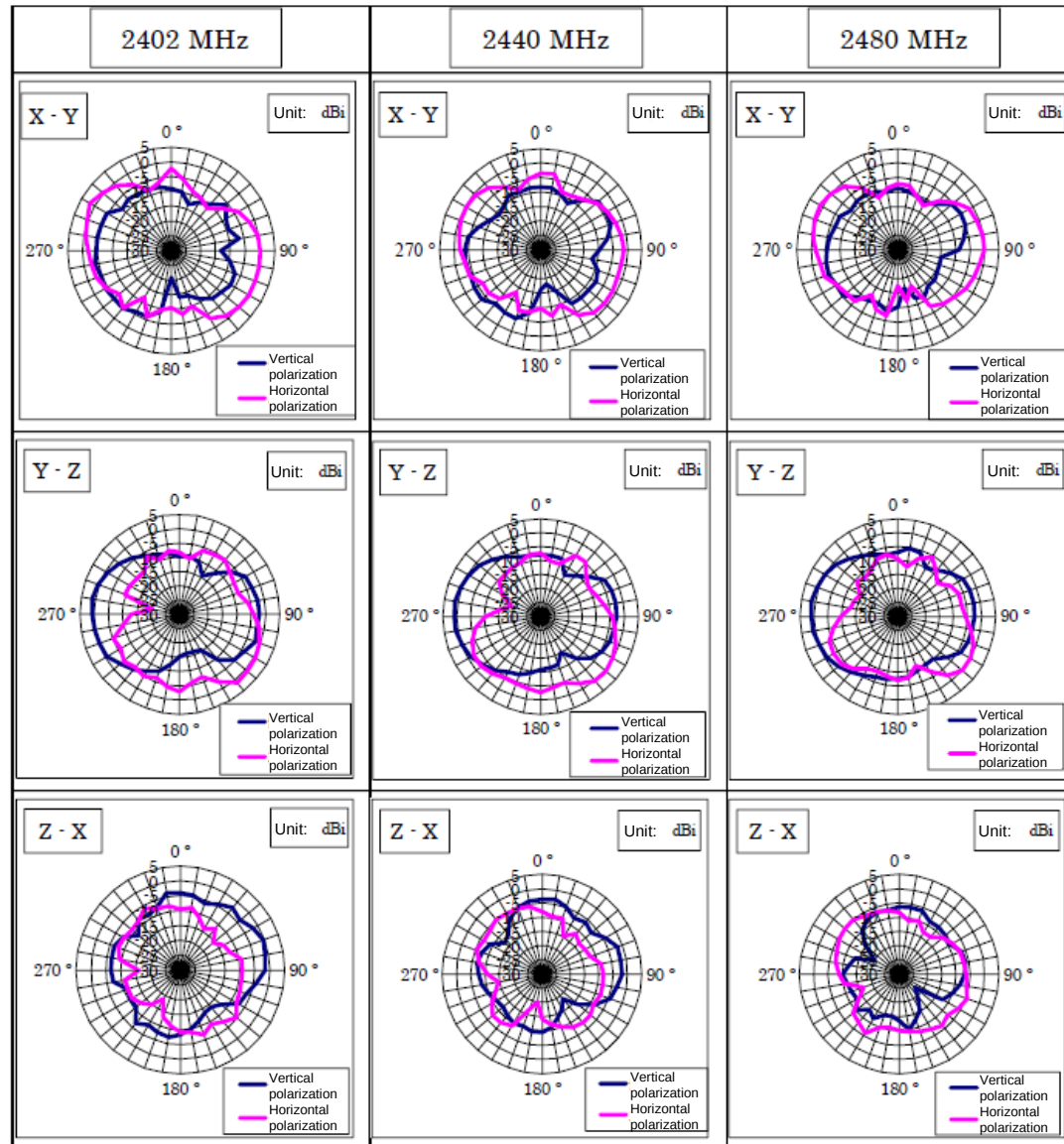
Y-Z plane



Z-X plane

2. BT Antenna (radiation characteristics)

- Radiation pattern diagram

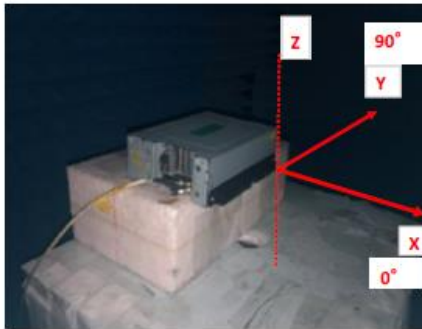


3. WLAN Antenna (radiation characteristics)

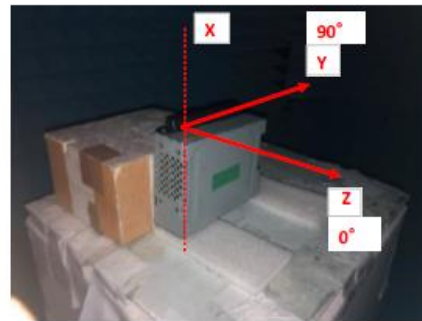
- Antenna gain

	Measuring plane	Polarized wave	Frequency(MHz)							Remarks
			2402	2440	2484	5180	5400	5600	5825	
Radiant gain [dBi]	X-Y plane	Evxy	-15.8	-14.8	-14.5	-15.5	-14.5	-16.9	-15.6	Average value at each measuring plane
		Elxy	-11.2	-10.8	-10.1	-6.6	-7.1	-6.9	-7.3	
	Y-Z plane	Evyz	-13.9	-13.8	-11.9	-12.2	-11.4	-12.2	-11.8	
		Ehyz	-15.0	-15.0	-13.6	-11.9	-12.6	-12.7	-12.9	
	X-Z plane	Evxz	-13.5	-12.7	-13.3	-6.4	-8.0	-6.7	-6.4	
		Elxz	-17.2	-17.8	-16.9	-15.8	-15.8	-17.1	-18.5	
	3-plane average		-11.0	-10.6	-9.9	-6.8	-7.4	-7.2	-7.2	-
	Maximum value		-5.6	-5.2	-5.8	-0.4	-1.0	-0.2	-1.5	Maximum value in all measurement planes

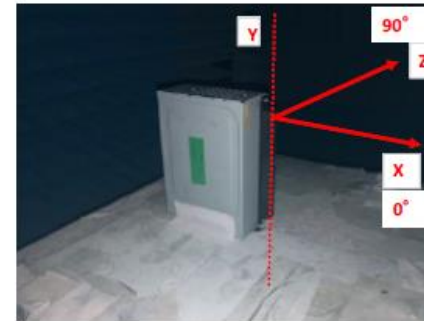
- Measuring axis



X-Y plane



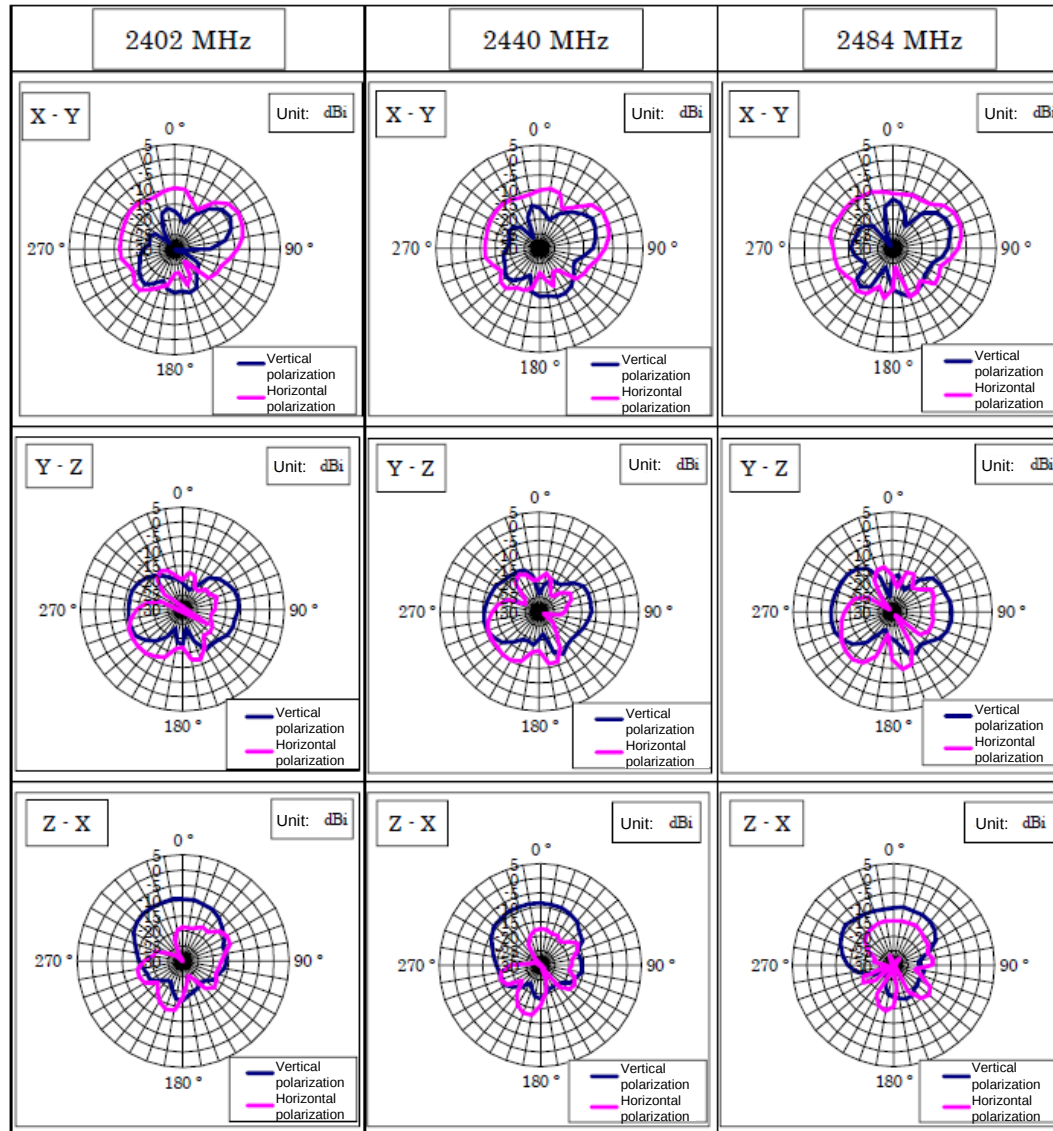
Y-Z plane



Z-X plane

3. WLAN Antenna (radiation characteristics)

- Radiation pattern diagram



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