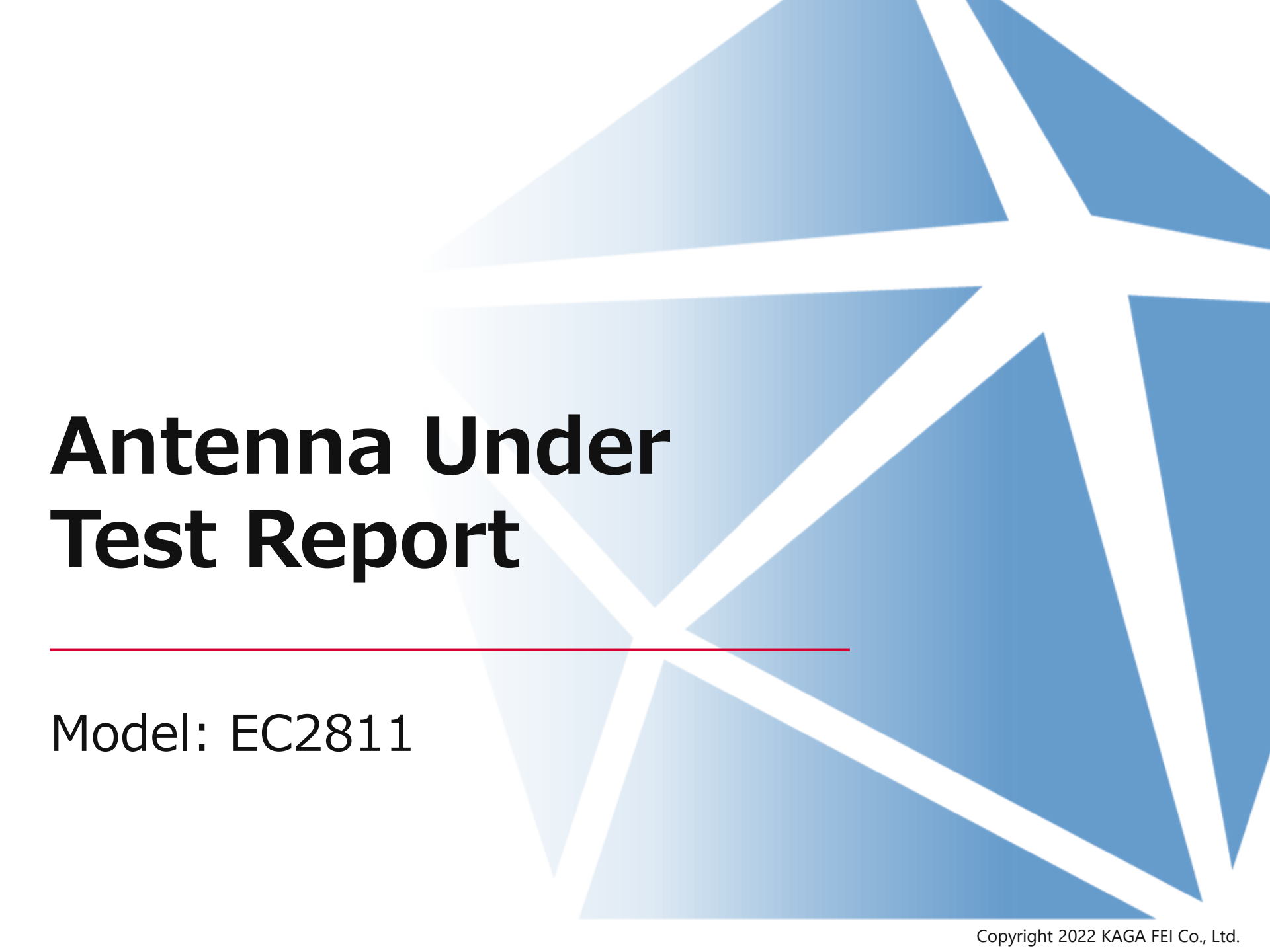




Antenna Under Test Report

Model: EC2811

General Items

- Antenna Category

Monopole Antenna

- Test dates, Test site

17th May 2021, TAIYO YUDEN R&D CENTER

- Name of test personnel

Jin Mikata

- Equipment information used for antenna gain measurement

Manufacturer :Microwave Vision Group

Model :SG24C

- Names of commercial test software

Manufacturer :Microwave Vision Group

SPM ver.1.9.3

Satenv ver.3.0.3.0 build23

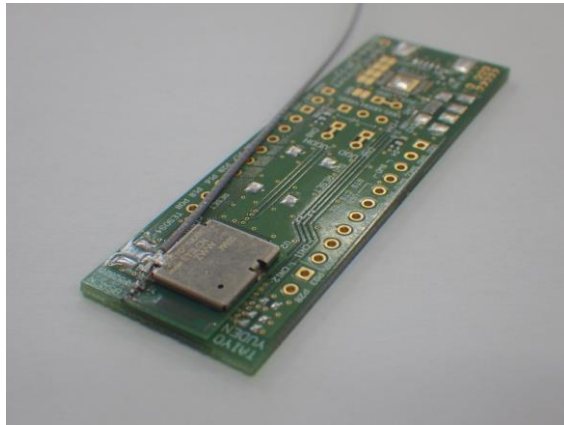
M4Satenv ver.2.2.35

General Items

■ Table of calibrated equipment

No.	Item	Model	Serial number	Calibration Date
1	Multi-probe Systems	SG24C	1101854-0010	2021/2/19

■ Test setup photos

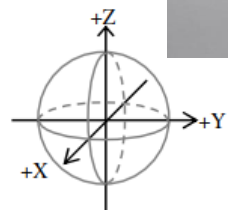


Measurement data

Measured in MVG SG24 system at TAIYO YUDEN R&D CENTER.

17.May.2021

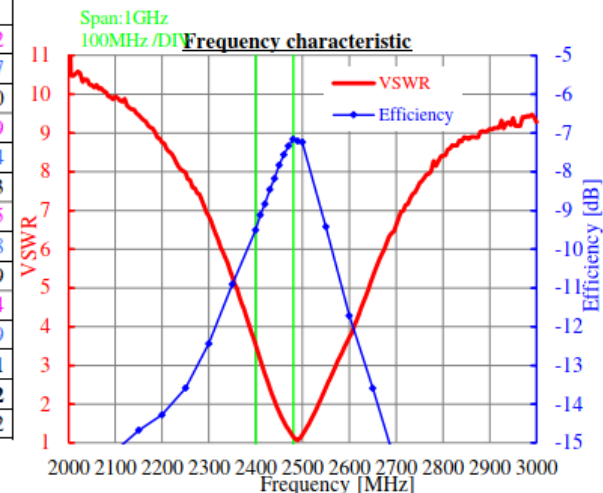
Appearance and coordinates definition



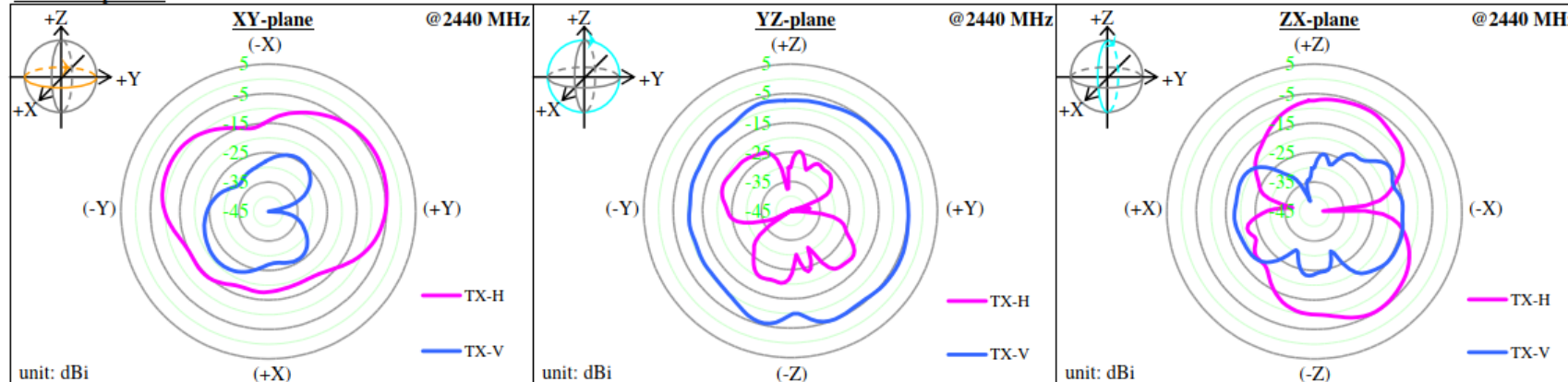
Measurement data of antenna

Frequency	[MHz]	@ 2400	@ 2440	@ 2480
Peak gain		[dBi]		
3-plane	TX-H	-5.2	-3.7	-2.6
	TX-V	-5.2	-4.0	-3.4
		-5.2	-3.7	-2.6
Average gain		[dBi]		
XY-plane	TX-H	-10.9	-9.2	-8.2
	TX-V	-26.9	-25.7	-23.7
	Plus(H,V)	-10.8	-9.1	-8.0
YZ-plane	TX-H	-25.4	-23.4	-21.9
	TX-V	-7.5	-6.4	-5.4
	Plus(H,V)	-7.5	-6.3	-5.3
XZ-plane	TX-H	-11.1	-10.3	-9.5
	TX-V	-21.1	-19.1	-17.8
	Plus(H,V)	-10.7	-9.8	-8.9
3plane	TX-H	-12.7	-11.4	-10.4
	TX-V	-12.1	-10.9	-9.9
		-9.4	-8.1	-7.1
Efficiency	[dB]	-9.5	-8.2	-7.2
VSWR	[:1]	3.5	2.1	1.2

*Note:The value is average value in 1 round of each inclination direction angle.

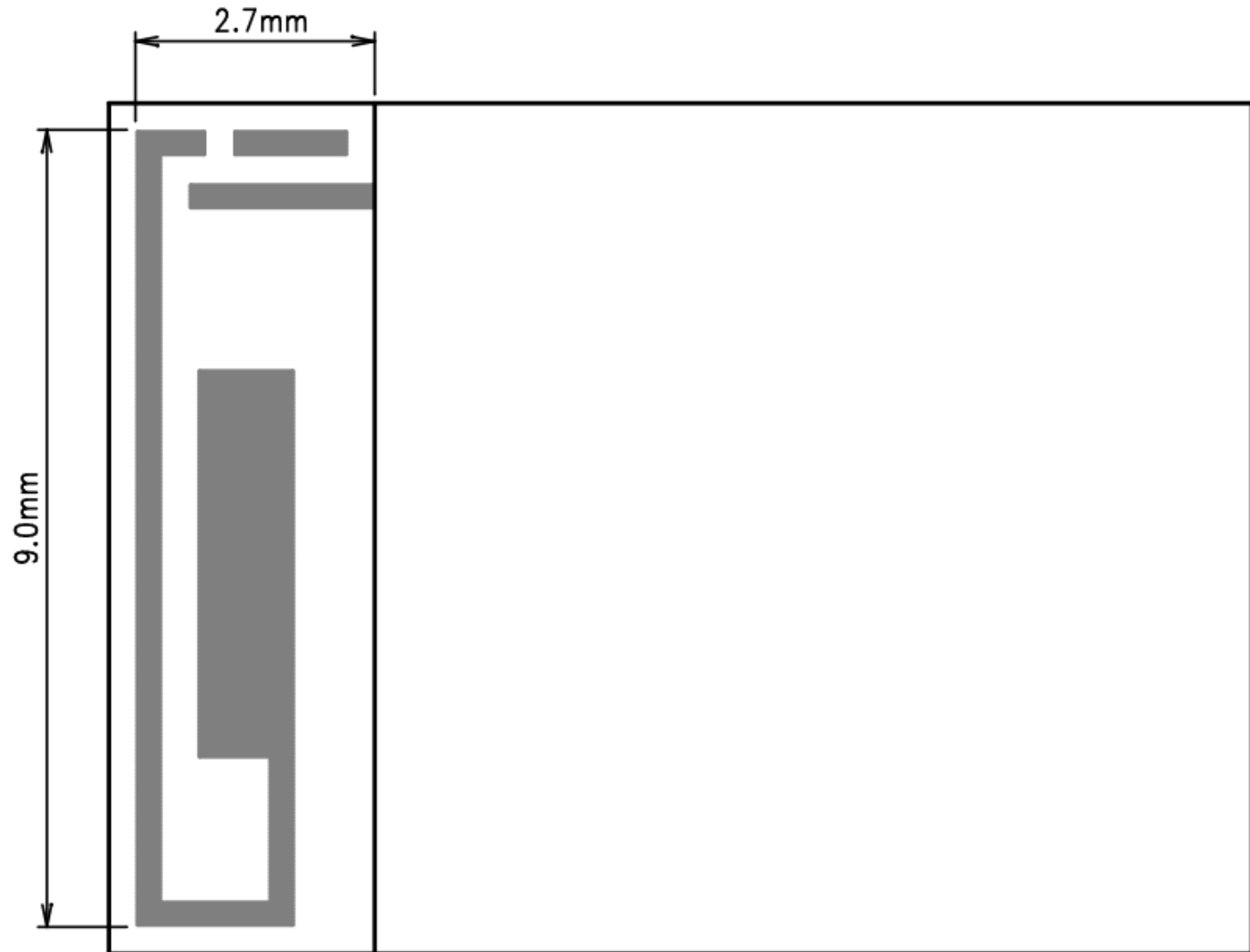


Radiation pattern



20210517

Antenna Appearance





KAGA FEI