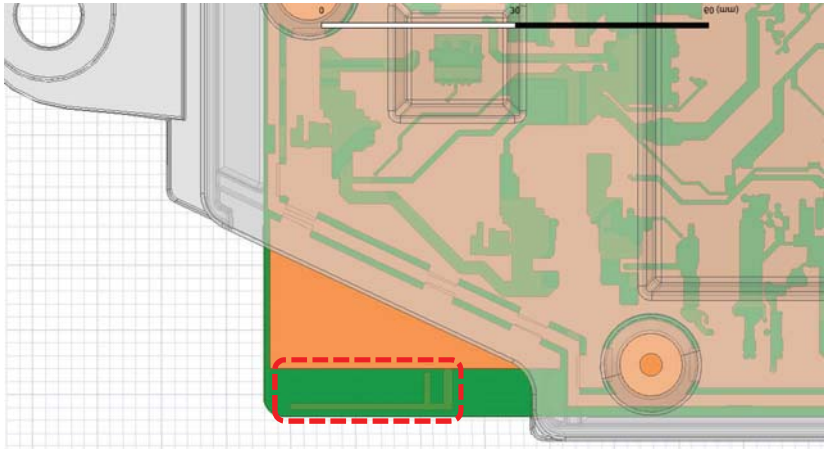
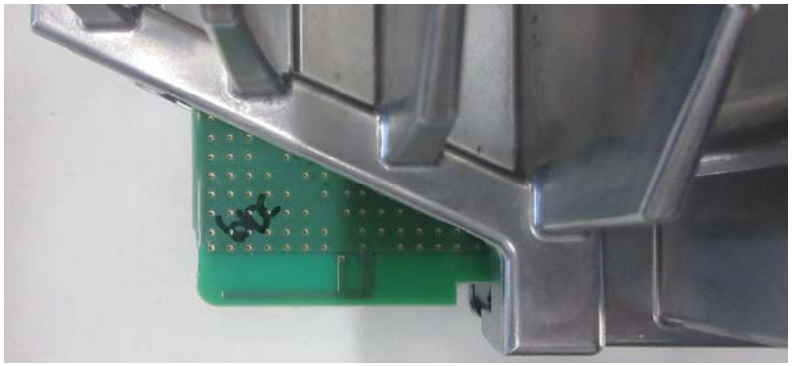
PCB Inverted-F λ/4 Antenna

Outline

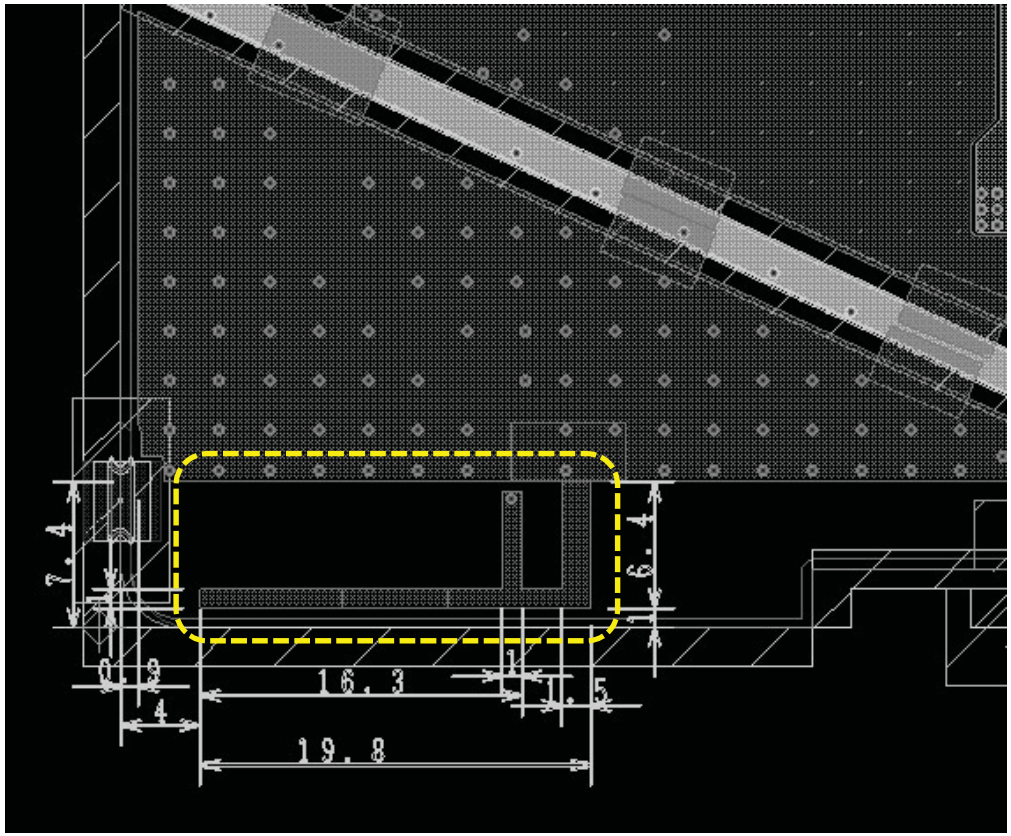


Appearance



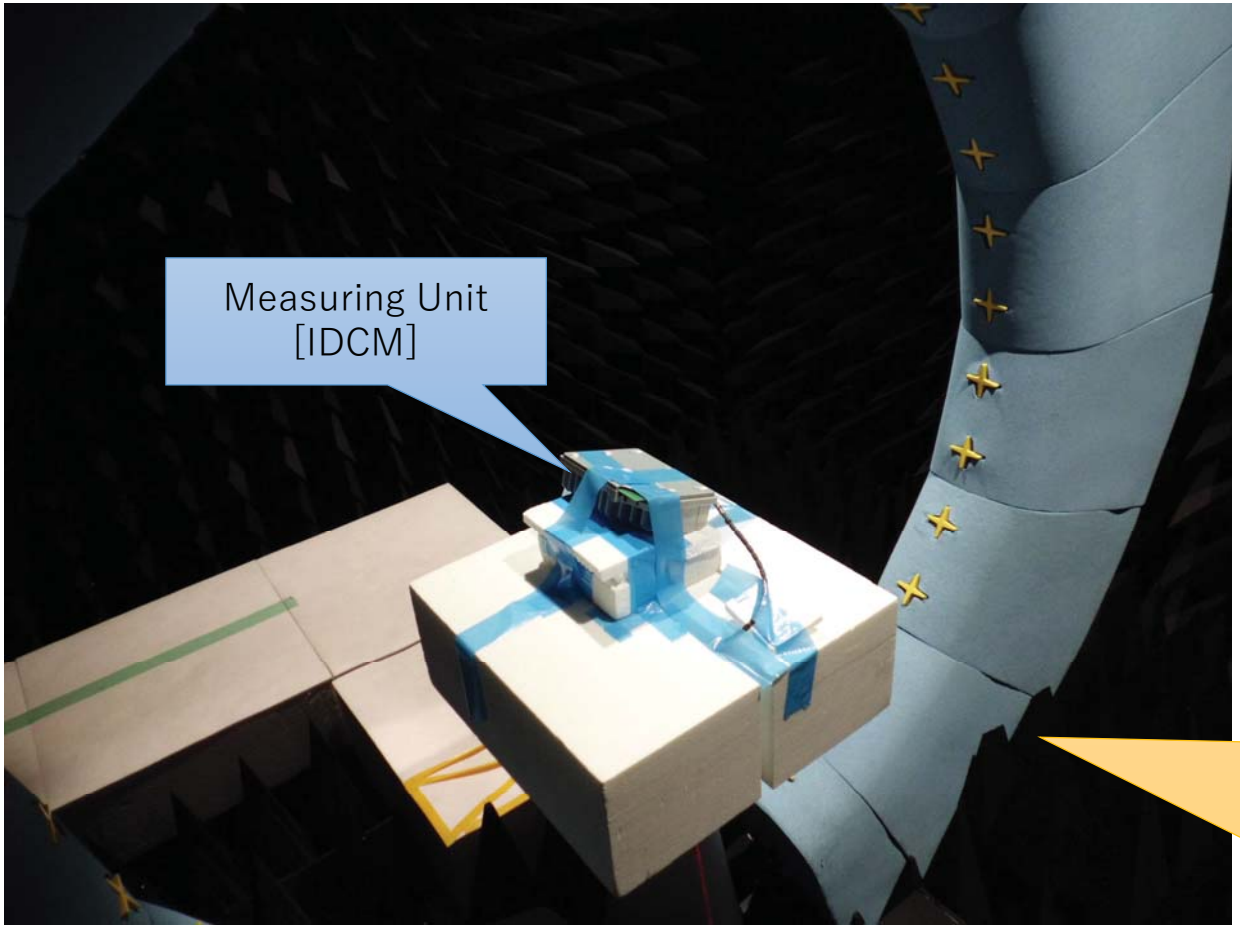
Dimensions

(Unit [mm])



PCB Inverted-F λ/4 Antenna

Measurement setup of Antenna gain performance



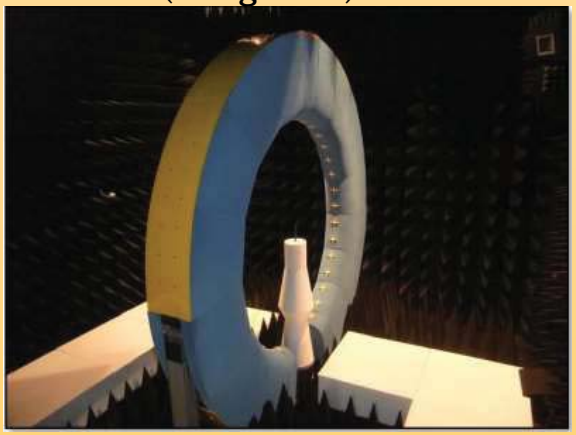
Performance

(Assuming the vehicle mounting state)

Characteristic	Measured value
VSWR	1.18 to 1.69
Average gain	-1.5dBi
Average gain (Hemisphere of end user side)	+1.3dBi
Peak gain	+5.2dBi

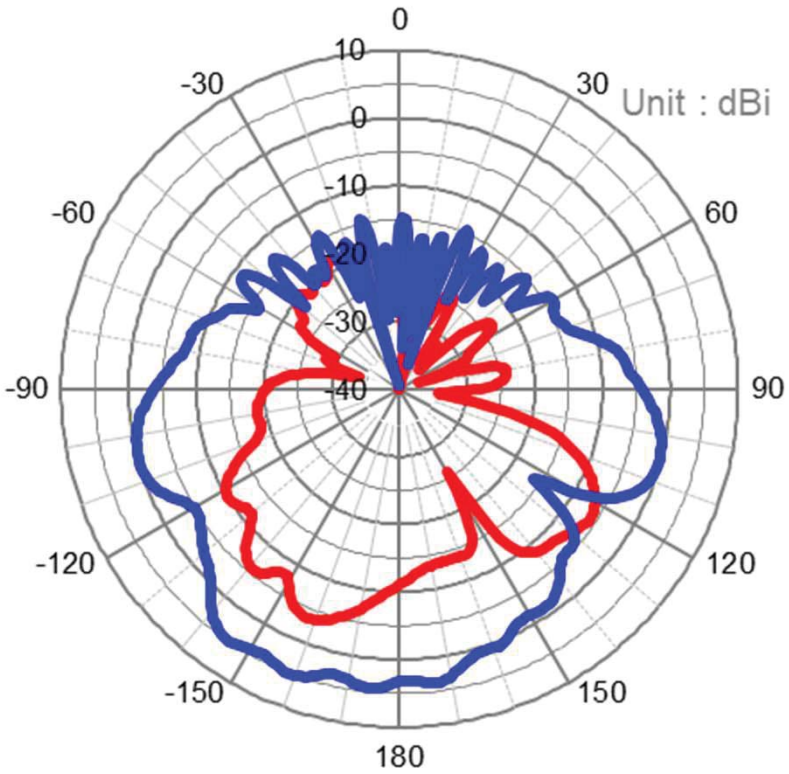
NEAR FIELD MEASUREMENT SYSTEM

(Stargate32)



PCB Inverted-F λ/4 Antenna

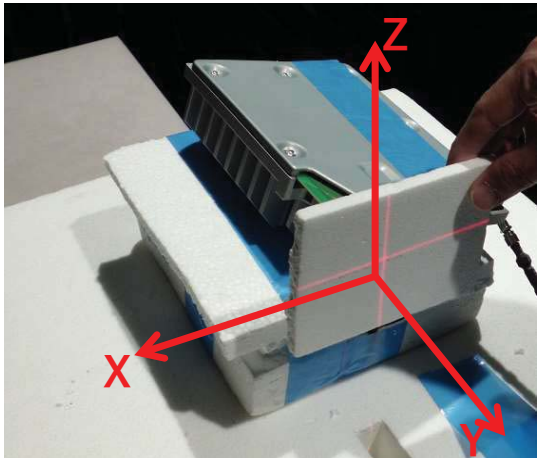
Detail of antenna gain



Performance

(Assuming the vehicle mounting state)

Characteristic	Measured value
VSWR	1.18 to 1.69
Average gain	-1.5dBi
Average gain (Hemisphere of end user side)	+1.3dBi
Peak gain	+5.2dBi



Other information

Company name and address of antenna supplier	ALPS ALPINE CO., LTD 20-1 Yoshima Industrial Park,Iwaki,Fukushima Japan 970-1192 * It's pattern antenna(inverted-F antenna) designed by ALPSALPINE.
Model name	IDCM
Frequency range	2.4GHz ~ 2.48GHz
Antenna gain	See page 2
Antenna type	See page 1
Connector type	N/A
Antenna pattern	See page 1
Outline drawing or Appearance picture	See page 1
Cable length (if antenna cable is connected)	N/A
Cable loss (if antenna cable is connected)	N/A
Explanation whether antenna gain includes cable loss (if antenna cable is connected)	N/A
Detail of Antenna gain	See page 3
Performance specification	See page 2
List of calibrated equipment	*Model name/Device name/Calibration date/Serial number* ・SG32/Multi-probe system/2019.8.2/TYO0016S/Microwave Vision Group(MVG)
Test date	2021/4/27
Name of tester	Kodai Sasaki
Test software	SatEnv
Picture of test setup	See page 2
Explanation of measurement procedure	See page 2