

Regulatory WLAN Antenna Information TIAN01

Toshiba Corporation

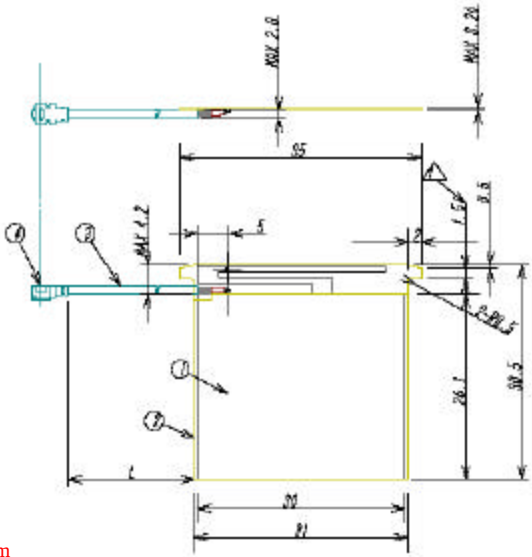
Section 1. Antenna Assembly Specifications

Antenna Assembly Summary:

1A Antenna Part Number	1B Manufacture	1C Antenna Type	1D Cable Assembly Part Number and Information	1E Peak Gain W/ Cable loss (dBi)	1F Peak Gain w/o Cable Loss (dBi)	1G VSWR	1H Cable Los: (dBi)
TIAN01	Tyco Electronics AMP K.K.	2.4GHz:PIFA 5GHz:PIFA	P/N: TIAN01-001 50 ohm Coaxial. length: 715mm diameter: 0.9mm Connector: U.FL	2400-2500MHz 2.0 dBi (peak)	2400-2500MHz 4.02 dBi (peak)	2400-2500MHz 1.59 max	2400-2500MHz 2.02 dBi (pea
				5150-5350MHz 1.6 dBi (peak)	5150-5350MHz 4.66 dBi (peak)	5150-5350MHz 1.72 max	5150-5350MHz 3.06 dBi (pea
				5470-5725MHz 1.0 dBi (peak)	5470-5725MHz 4.07 dBi (peak)	5470-5725MHz 1.99 max	5470-5725MHz 3.07 dBi (pea
				5725-5850MHz -2.2 dBi (peak)	5725-5850MHz 0.91 dBi (peak)	5725-5850MHz 2.09 max	5725-5850MHz 3.11 dBi (pea
TIAN01	Tyco Electronics AMP K.K.	2.4GHz:PIFA 5GHz:PIFA	P/N: TIAN01-001 50 ohm Coaxial. length: 838mm diameter: 0.9mm Connector: U.FL	2400-2500MHz -1.4 dBi (peak)	2400-2500MHz 0.97 dBi (peak)	2400-2500MHz 1.54 max	2400-2500MHz 2.37 dBi (pea
				5150-5350MHz -0.5 dBi (peak)	5150-5350MHz 3.09 dBi (peak)	5150-5350MHz 1.48 max	5150-5350MHz 3.59 dBi (pea
				5470-5725MHz -1.3 dBi (peak)	5470-5725MHz 2.30dBi (peak)	5470-5725MHz 1.63 max	5470-5725MHz 3.60 dBi (pea
				5725-5850MHz -1.9 dBi (peak)	5725-5850MHz 1.74 dBi (peak)	5725-5850MHz 1.83 max	5725-5850MHz 3.64 dBi (pea

Section 2. Dimensioned Photos or Drawings of Antennas

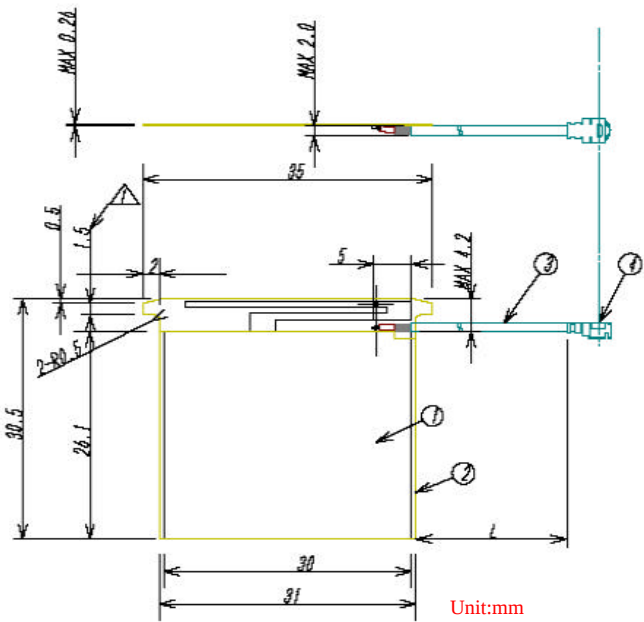
include a dimensioned photo or dimensioned drawing of main antenna here.



Unit:mm

No.	DESCRIPTION
①	Antenna assembly manufactured by MUSEX (TOSHIBA-8010)
②	Insulation film
③	High frequency coaxial cable (RF-M500)
④	Connector

include a dimensioned photo or dimensioned drawing of aux antenna here.

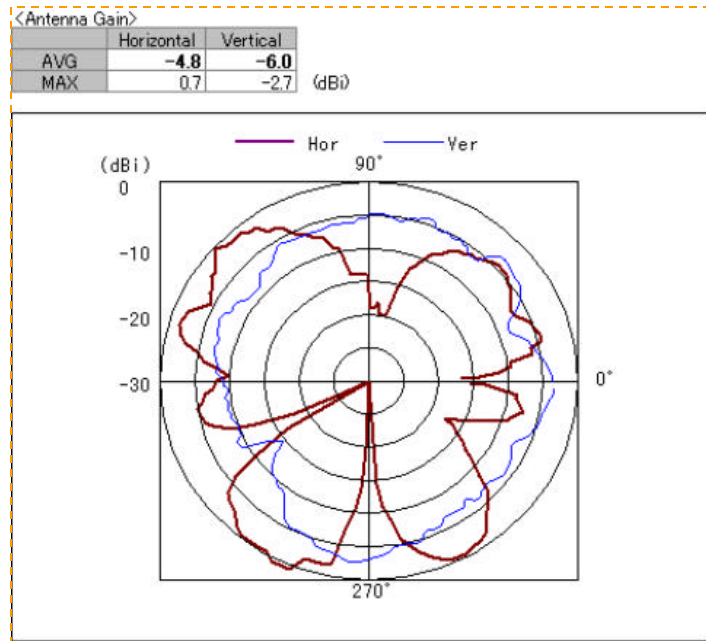


No.	DESCRIPTION
①	An original antenna manufactured by MISSEI(TOKUGAWA2002-287876)
②	Insulation film
③	High frequency coaxial cable RF-NF5021
④	Connector

Section 3. Radiation characteristics of antennae Loaded in Host Platform

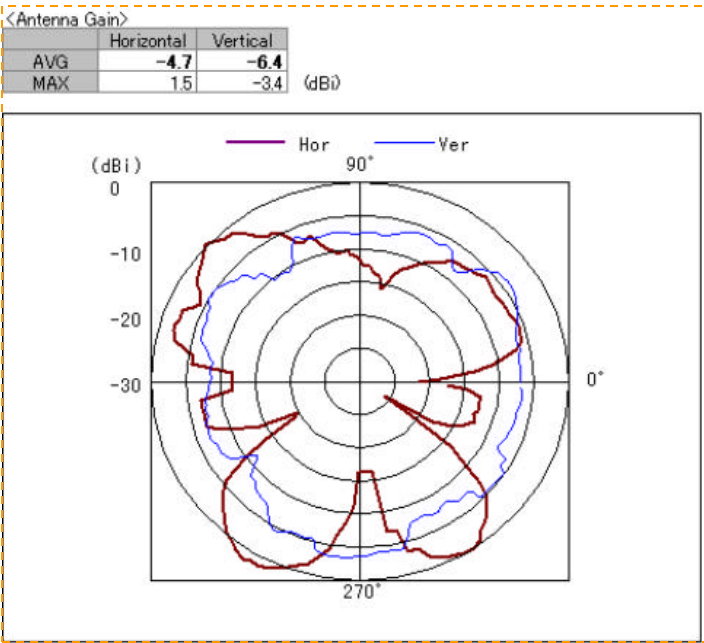
1400-2500MHz radiation characteristic

Main antenna: 2400 MHz



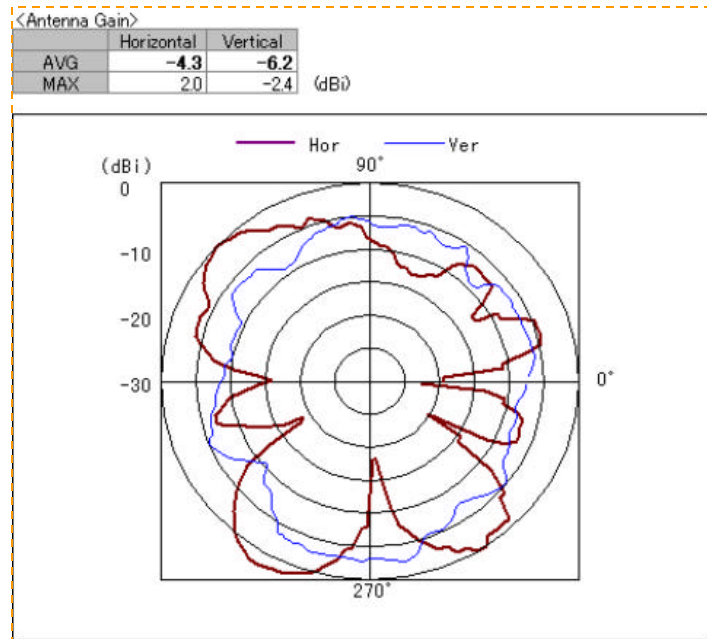
Center Frequency	2400 MHz
Horizontal (dBi) peak	0.7
Vertical (dBi) peak	-2.7
Horz+Vert (dBi) peak	0.7

Main antenna: 2450 MHz



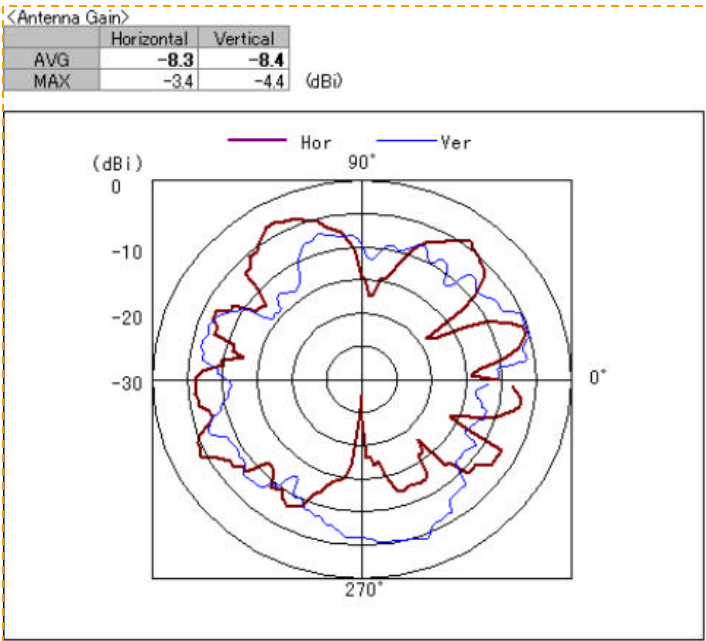
Center Frequency	2450 MHz
Horizontal (dBi) peak	1.5
Vertical (dBi) peak	-3.4
Horz+Vert (dBi) peak	1.5

Main antenna: 2500 MHz



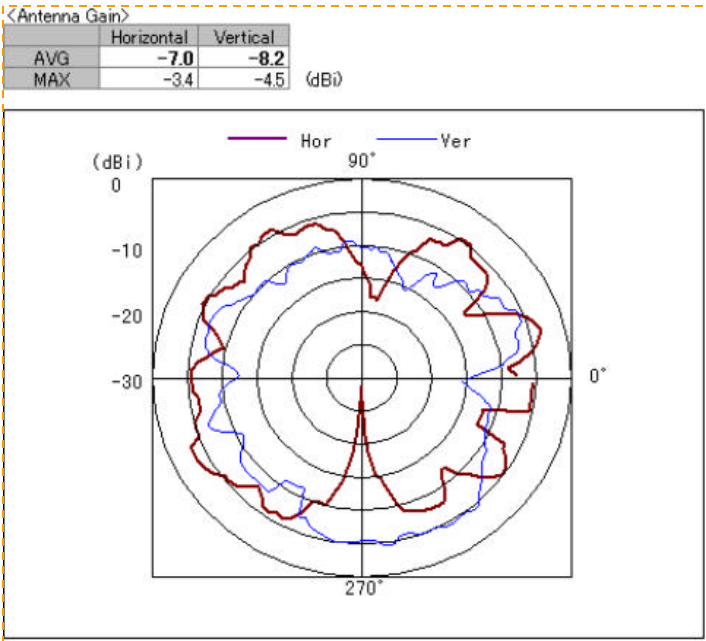
Center Frequency	2500 MHz
Horizontal (dBi) peak	2.0
Vertical (dBi) peak	-2.4
Horz+Vert (dBi) peak	2.0

Auxiliary antenna: 2400 MHz



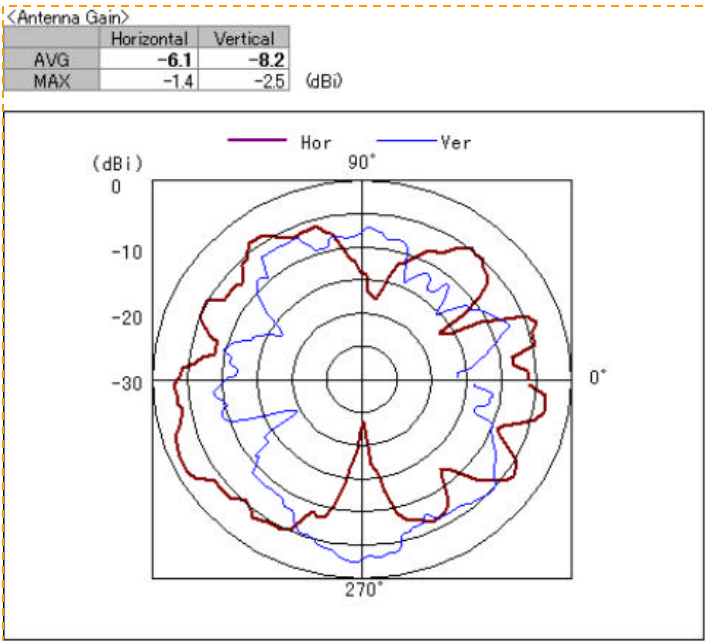
Center Frequency	2400 MHz
Horizontal (dBi) peak	-3.4
Vertical (dBi) peak	-4.4
Horz+Vert (dBi) peak	-3.4

Auxiliary antenna : 2450 MHz



Center Frequency	2450 MHz
Horizontal (dBi) peak	-3.4
Vertical (dBi) peak	-4.5
Horz+Vert (dBi) peak	-3.4

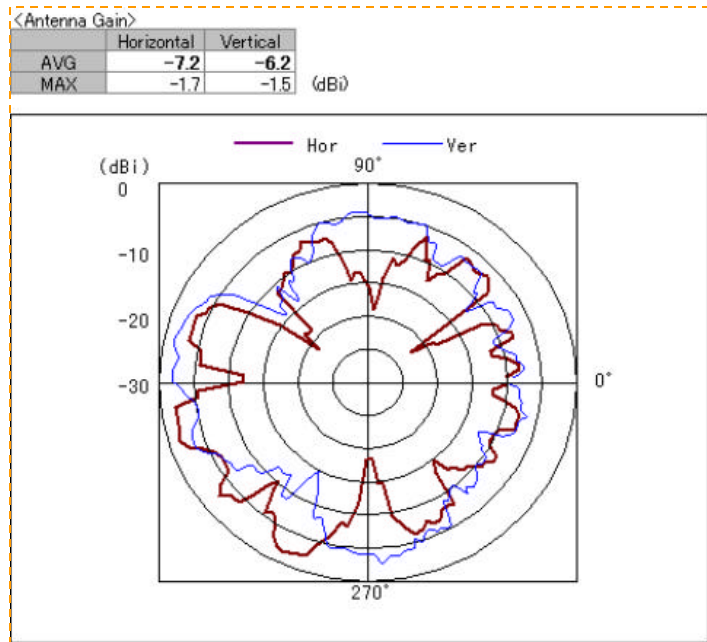
Auxiliary antenna : 2500 MHz



Center Frequency	2500 MHz
Horizontal (dBi) peak	-1.4
Vertical (dBi) peak	-2.5
Horz+Vert (dBi) peak	-1.4

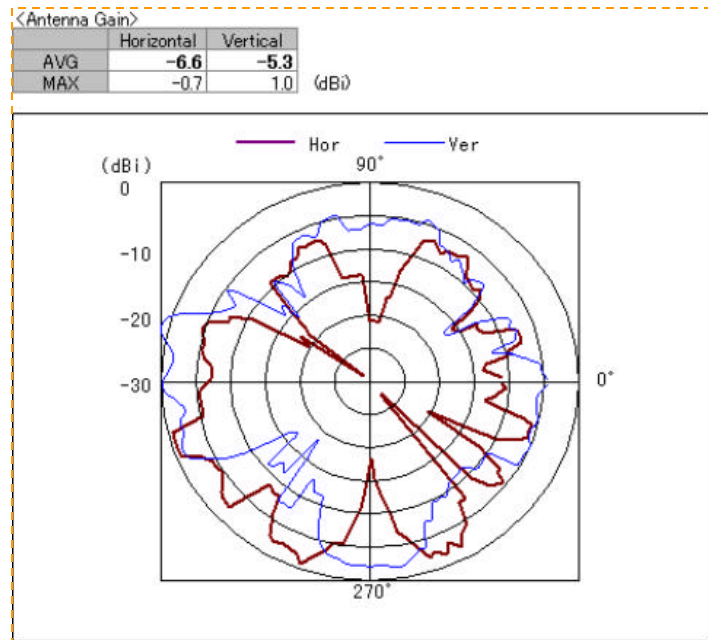
150-5350 MHz radiation characteristic

Main antenna: 5150 MHz



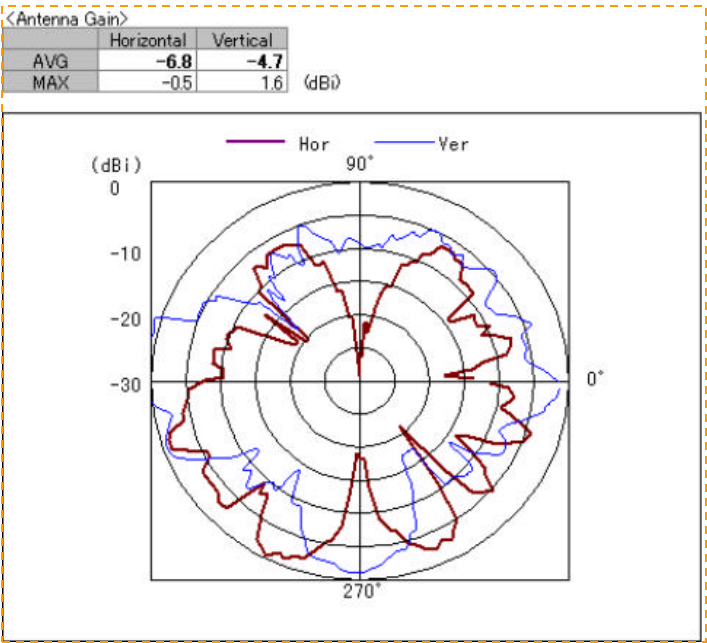
Center Frequency	5150 MHz
Horizontal (dBi) peak	-1.7
Vertical (dBi) peak	-1.5
Horz+Vert (dBi) peak	-1.5

Main antenna: 5250 MHz



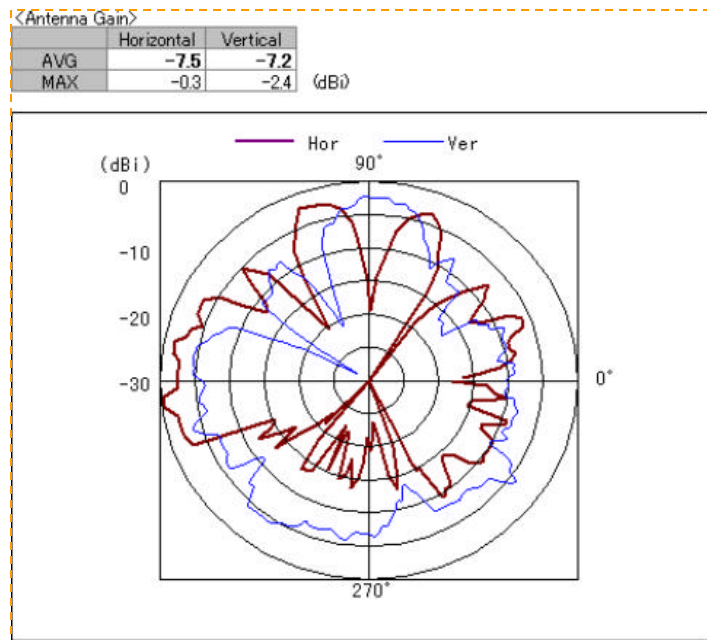
Center Frequency	5250 MHz
Horizontal (dBi) peak	-0.7
Vertical (dBi) peak	1.0
Horz+Vert (dBi) peak	1.0

Main antenna: 5350 MHz



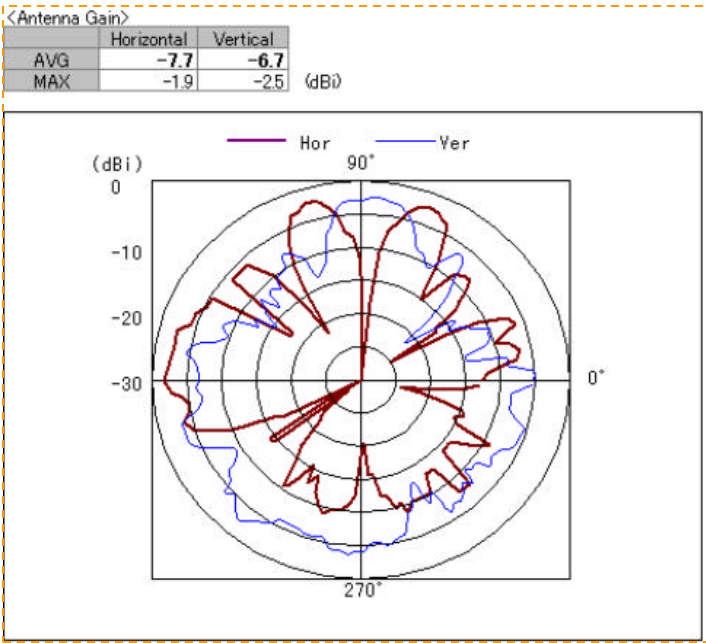
Center Frequency	5350 MHz
Horizontal (dBi) peak	-0.5
Vertical (dBi) peak	1.6
Horz+Vert (dBi) peak	1.6

Auxiliary antenna: 5150 MHz



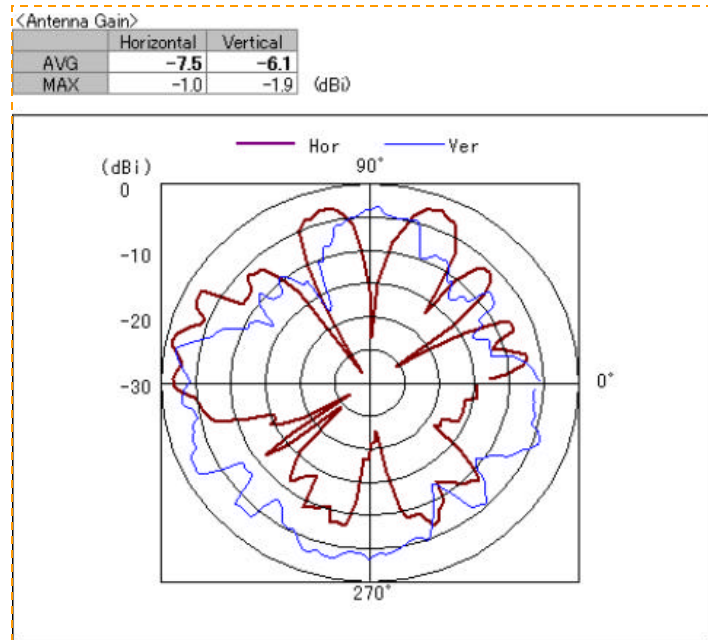
Center Frequency	5150 MHz
Horizontal (dBi) peak	-0.3
Vertical (dBi) peak	-2.4
Horz+Vert (dBi) peak	-0.3

Auxiliary antenna: 5250 MHz



Center Frequency	5250 MHz
Horizontal (dBi) peak	-1.9
Vertical (dBi) peak	-2.5
Horz+Vert (dBi) peak	-1.9

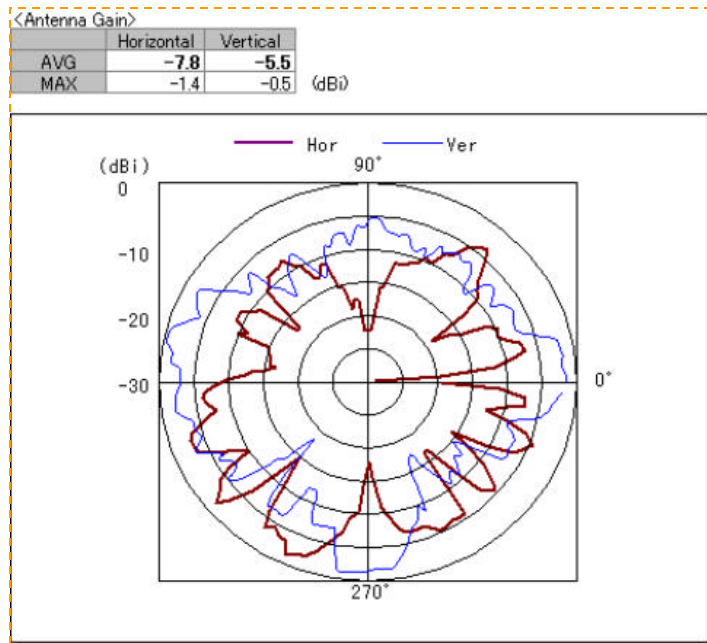
Auxiliary antenna: 5350 MHz



Center Frequency	5350 MHz
Horizontal (dBi) peak	-1.0
Vertical (dBi) peak	-1.9
Horz+Vert (dBi) peak	-1.0

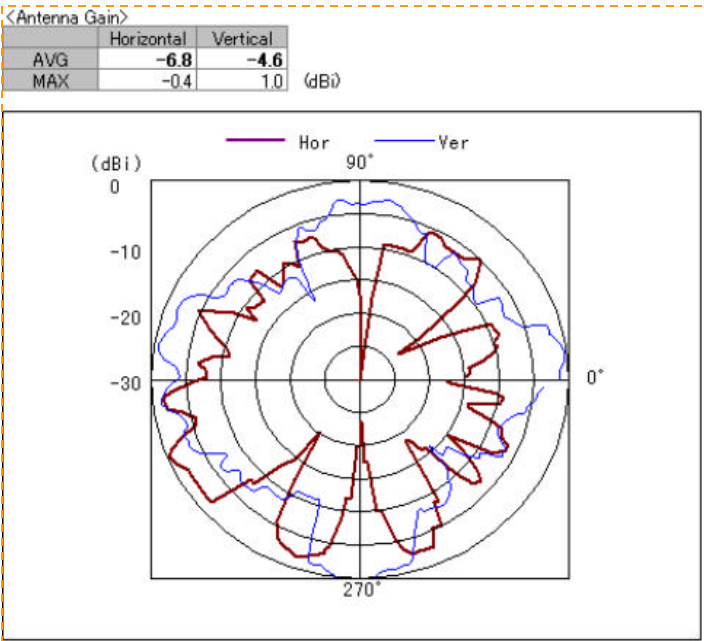
i470-5725MHz radiation characteristic

Main antenna: 5470 MHz



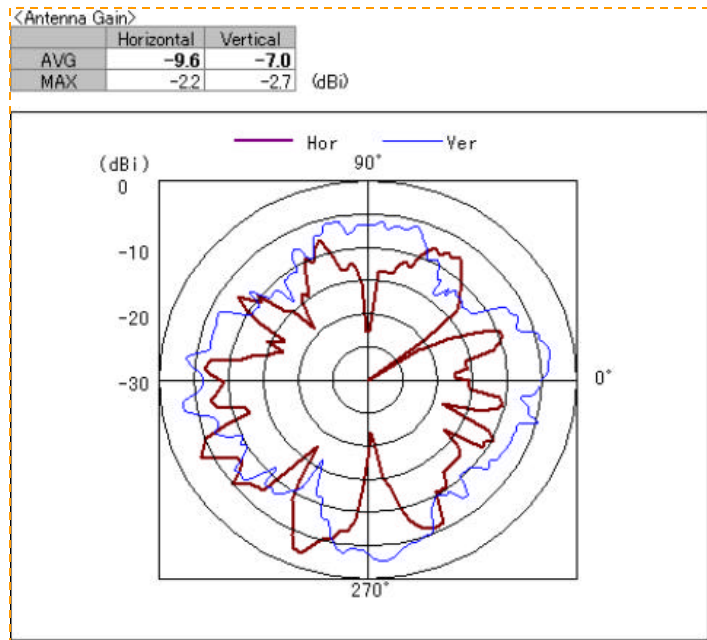
Center Frequency	5470 MHz
Horizontal (dBi) peak	-1.4
Vertical (dBi) peak	-0.5
Horz+Vert (dBi) peak	-0.5

Main antenna: 5597.5 MHz



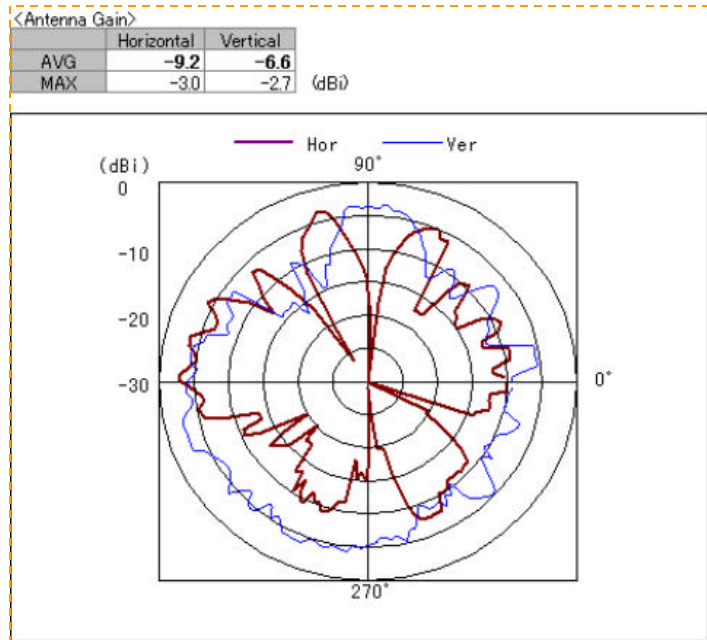
Center Frequency	5597.5 MHz
Horizontal (dBi) peak	1.0
Vertical (dBi) peak	-0.4
Horz+Vert (dBi) peak	1.0

Main antenna: 5725 MHz



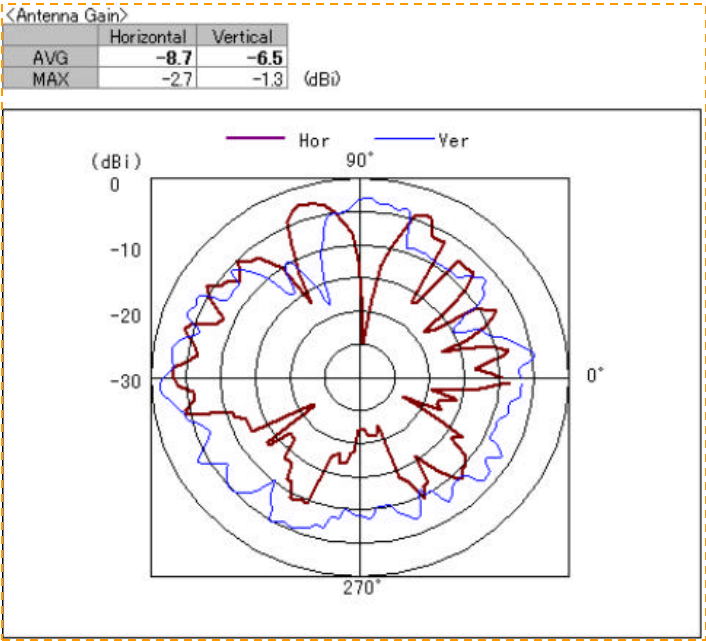
Center Frequency	5725 MHz
Horizontal (dBi) peak	-2.2
Vertical (dBi) peak	-2.7
Horz+Vert (dBi) peak	-2.2

Auxiliary antenna: 5470 MHz



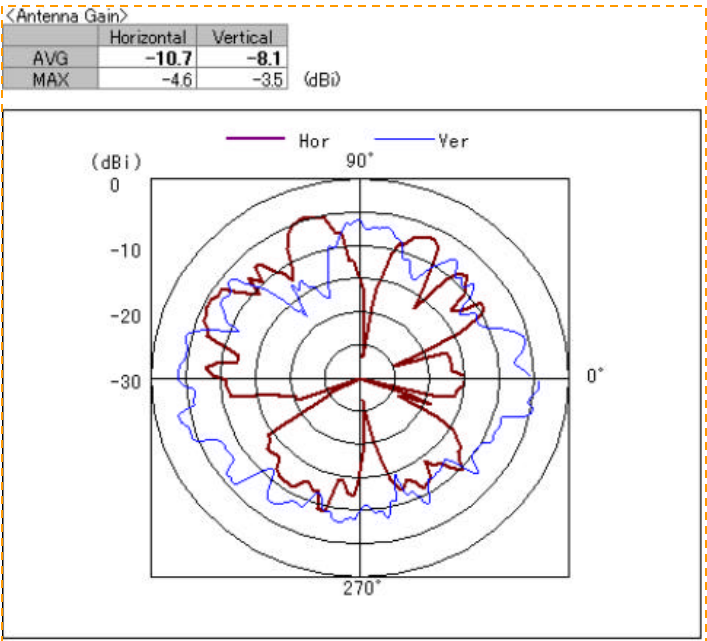
Center Frequency	5470 MHz
Horizontal (dBi) peak	-3.0
Vertical (dBi) peak	-2.7
Horz+Vert (dBi) peak	-2.7

Auxiliary antenna : 5597.5 MHz



Center Frequency	5597.5 MHz
Horizontal (dBi) peak	-2.7
Vertical (dBi) peak	-1.3
Horz+Vert (dBi) peak	-1.3

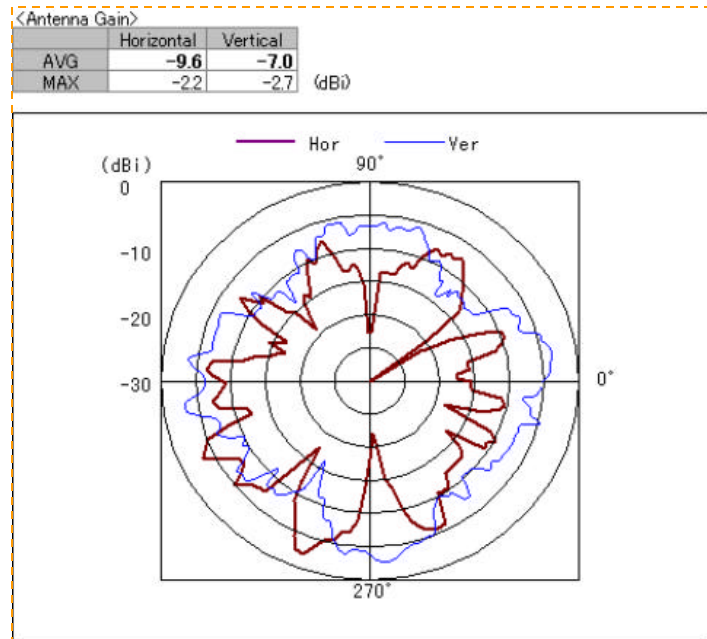
Auxiliary antenna : 5725 MHz



Center Frequency	5725 MHz
Horizontal (dBi) peak	-4.6
Vertical (dBi) peak	-3.5
Horz+Vert (dBi) peak	-3.5

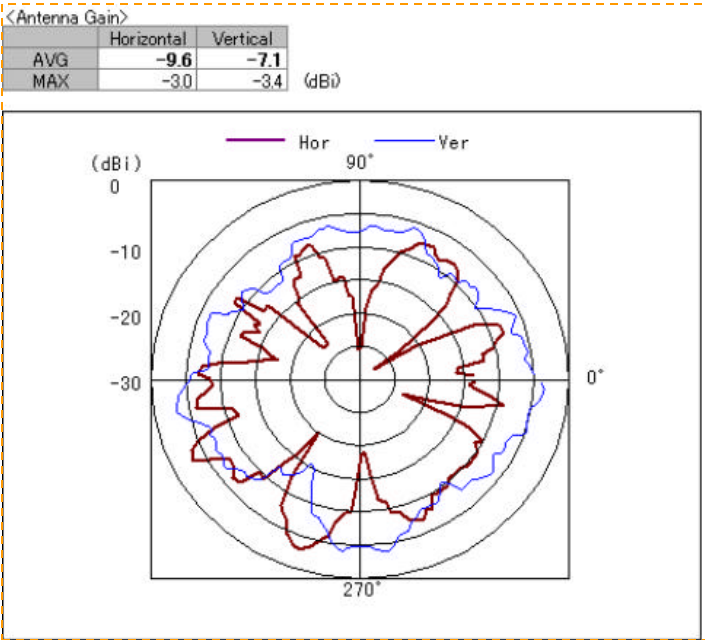
725-5850 MHz radiation characteristic

Main antenna: 5725 MHz



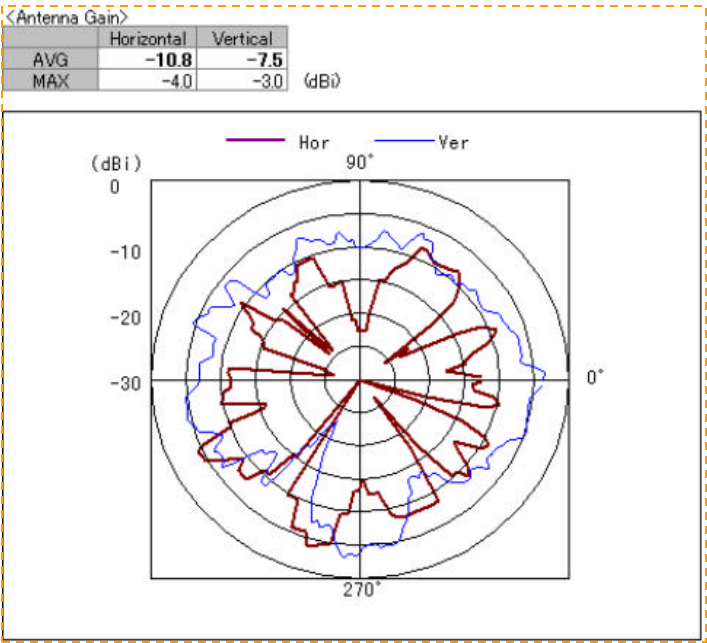
Center Frequency	5725 MHz
Horizontal (dBi) peak	-2.2
Vertical (dBi) peak	-2.7
Horz+Vert (dBi) peak	-2.2

Main antenna: 5785 MHz



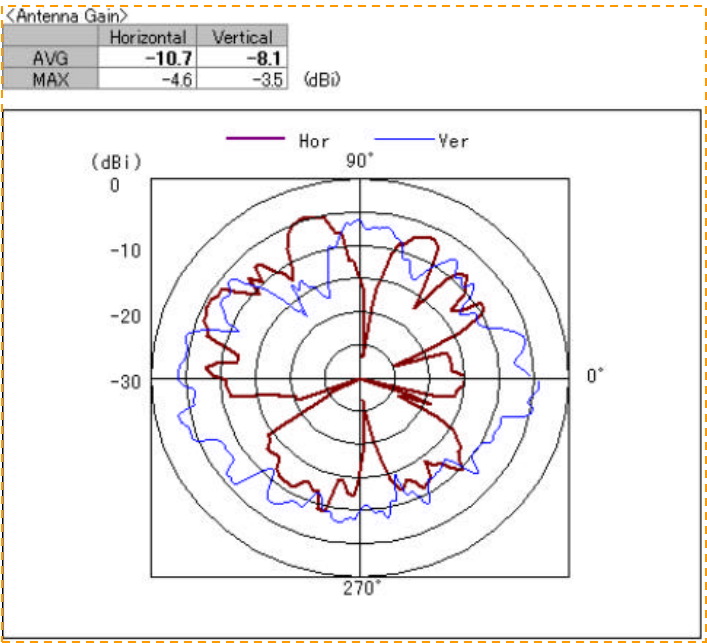
Center Frequency	5785 MHz
Horizontal (dBi) peak	-3.0
Vertical (dBi) peak	-3.4
Horz+Vert (dBi) peak	-3.0

Main antenna: 5850 MHz



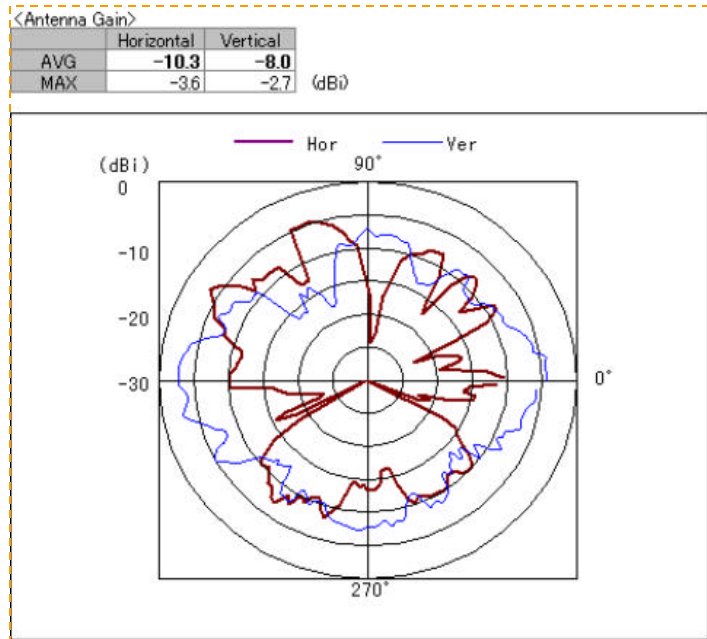
Center Frequency	5850 MHz
Horizontal (dBi) peak	-4.0
Vertical (dBi) peak	-3.0
Horz+Vert (dBi) peak	-3.0

Auxiliary antenna : 5725 MHz



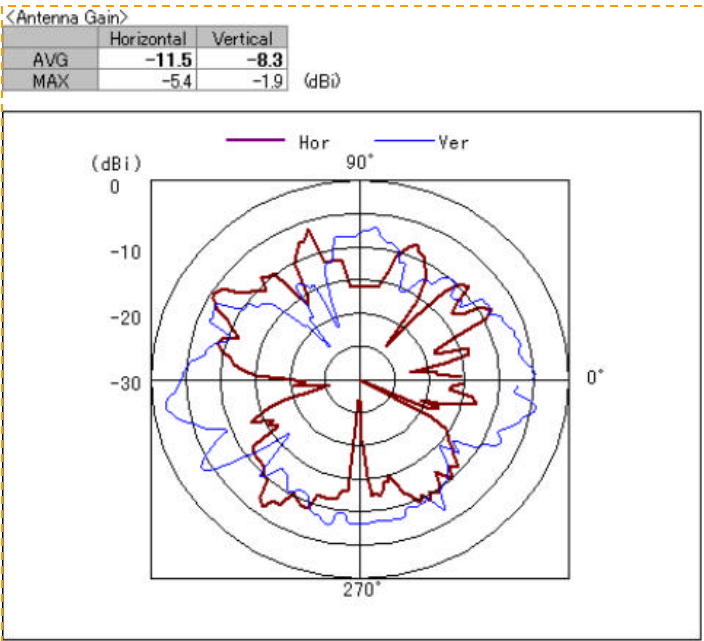
Center Frequency	5725 MHz
Horizontal (dBi) peak	-4.6
Vertical (dBi) peak	-3.5
Horz+Vert (dBi) peak	-3.5

Auxiliary antenna: 5785 MHz



Center Frequency	5785 MHz
Horizontal (dBi) peak	-3.6
Vertical (dBi) peak	-2.7
Horz+Vert (dBi) peak	-2.7

Auxiliary antenna : 5850 MHz



Center Frequency	5850 MHz
Horizontal (dBi) peak	-5.4
Vertical (dBi) peak	-1.9
Horz+Vert (dBi) peak	-1.9