

Regulatory WLAN Antenna Information

English Language Required for Intel Regulatory Review / Approval

**(OEM/ODM or antenna vendor is required to complete this document with platform antenna information.
Remove Intel references and make this your own document)**

Antenna information									
Vendor			Type		Antenna Part number (Main)			Antenna Part number (Aux)	
VSO			Dipole		JR2Q00498-X0			JR2Q00498-X0	
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	6.2GHz 5925-6425MHz	6.5GHz 6425-6525MHz	6.7GHz 6525-6875MHz	7.0 GHz 6875-7125MHz
Main	2.04	2.14	2.14	2.04	2.33	1.93	1.73	1.73	1.43
Aux	1.74	2.14	2.14	2.04	2.33	1.93	1.73	1.73	1.43

Address: 7th Floor, No. 880, Zhongzheng Road, Zhonghe District, New Taipei City

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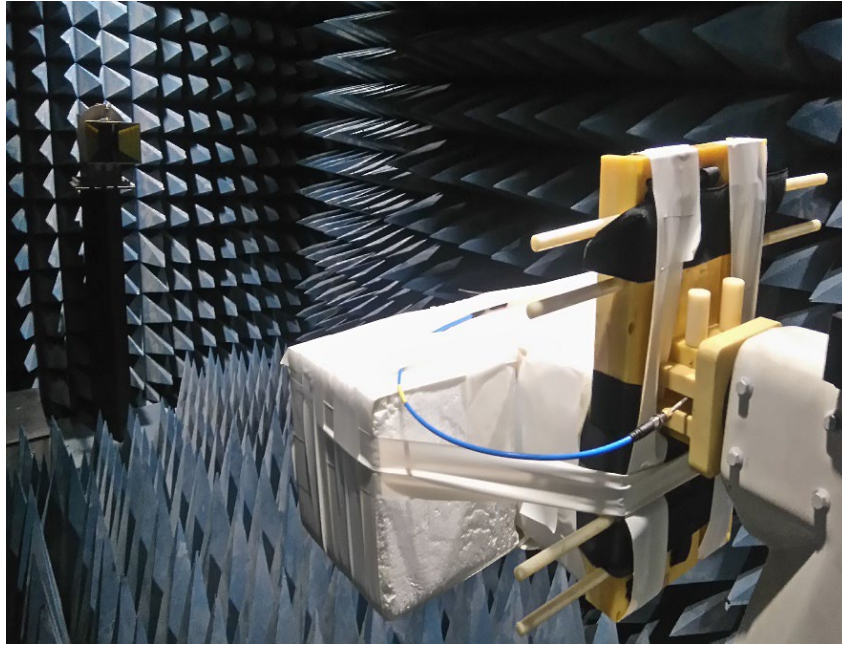
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3. Setup photo



Antenna Information

Section 1. Antenna Assembly Specifications

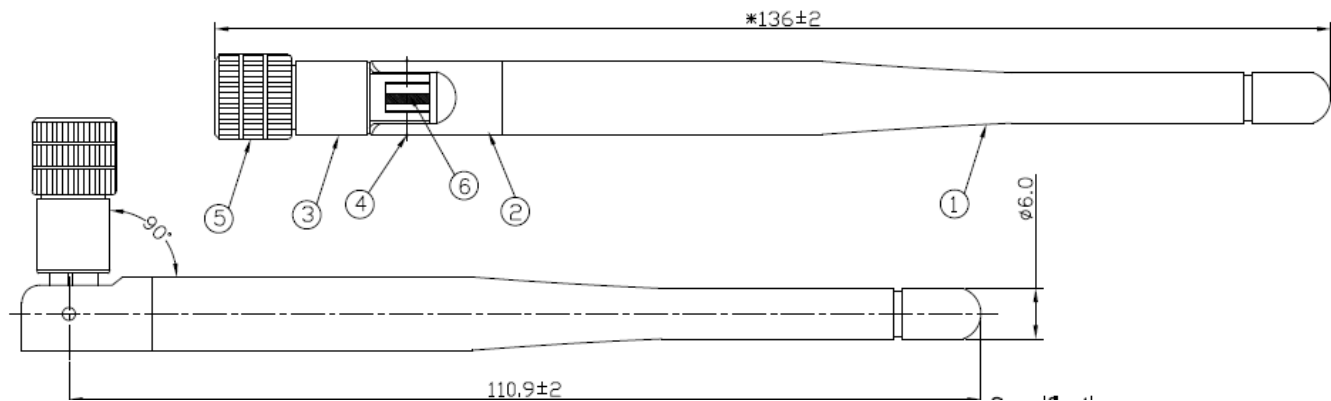
1A	1B	1C	1D		1E	1F	1G	1H
Antenna Part Number	Manufacturer	Antenna Type	Cable Assembly Part Number and Information	Freq Range MHz	* Peak Gain W/ Cable loss (dBi)	Peak Gain w/o Cable Loss (dBi)	Max VSWR	Cable Loss (dB)
(P/N: JR2Q00498-X0) Main Antenna	VSO	Dipole	(P/N: JR2Q00307-X2) 50 ohm Coaxial length: 20cm diameter: 1.13mm	2400-2483.5	2.04	2.7	2.0	0.66
				5150-5250	2.14	3.1	2.0	0.96
				5250-5350	2.14	3.1	2.0	0.96
				5470-5725	2.04	3	2.0	0.96
				5725-5850	2.33	3.5	2.0	1.17
				5925-6425	1.93	3.1	2.0	1.17
				6425-6525	1.73	2.9	2.0	1.17
				6525-6875	1.73	2.9	2.0	1.17
				6875-7125	1.43	2.6	2.0	1.17
(P/N: JR2Q00498-X0) Aux Antenna	VSO	Dipole	(P/N: JR2Q00307-X2) 50 ohm Coaxial length: 20cm diameter: 1.13mm	2400-2483.5	1.74	2.7	2.0	0.66
				5150-5250	2.14	3.1	2.0	0.96
				5250-5350	2.14	3.1	2.0	0.96
				5470-5725	2.04	3	2.0	0.96
				5725-5850	2.33	3.5	2.0	1.17
				5925-6425	1.93	3.1	2.0	1.17
				6425-6525	1.73	2.9	2.0	1.17
				6525-6875	1.73	2.9	2.0	1.17
				6875-7125	1.43	2.6	2.0	1.17

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

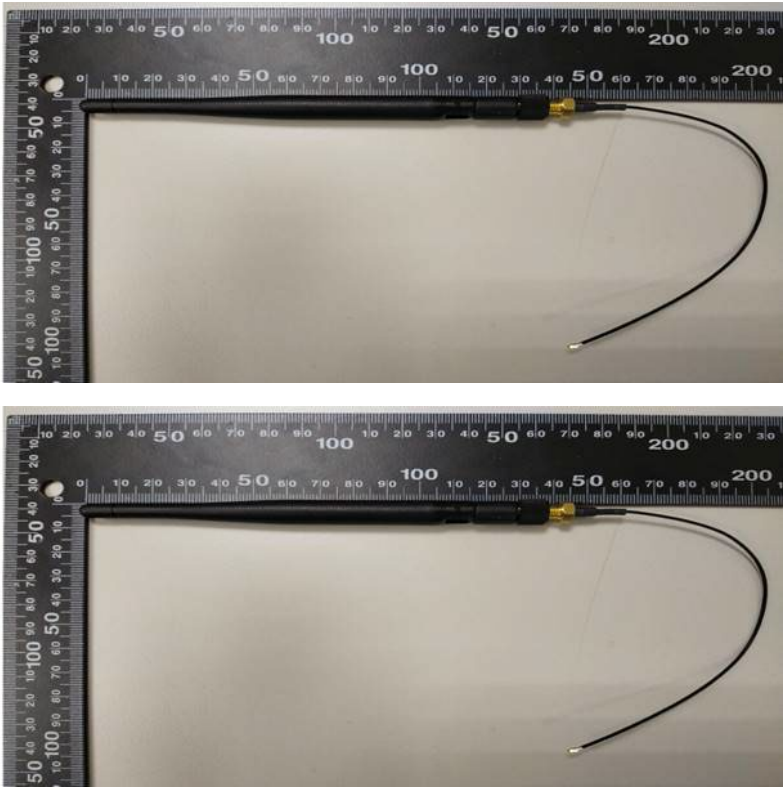
Section 2. Dimensioned Photos and Drawings of Antennas

Include the dimensioned photo and drawing of Main antenna here.

Main Antenna Drawing:



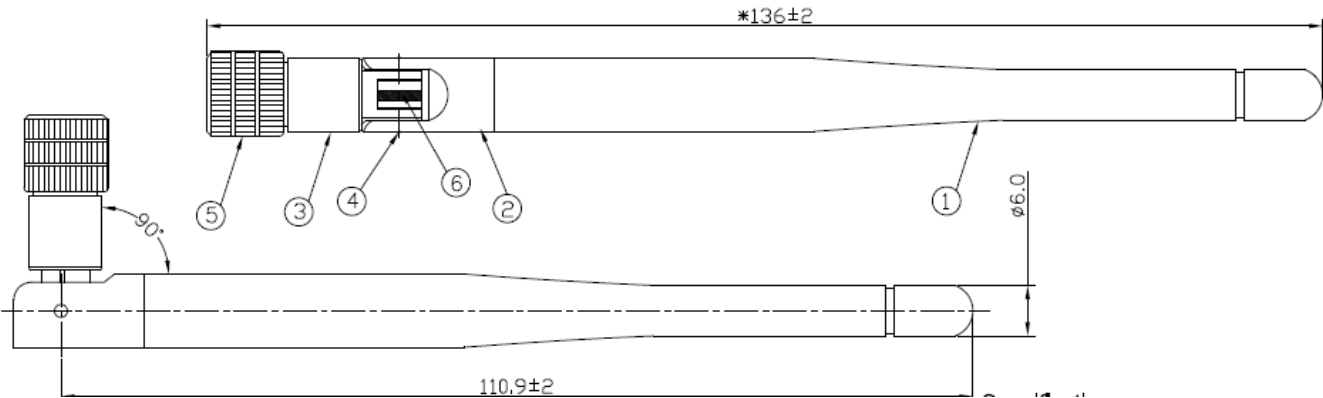
Main Antenna Photo (Front/Back):



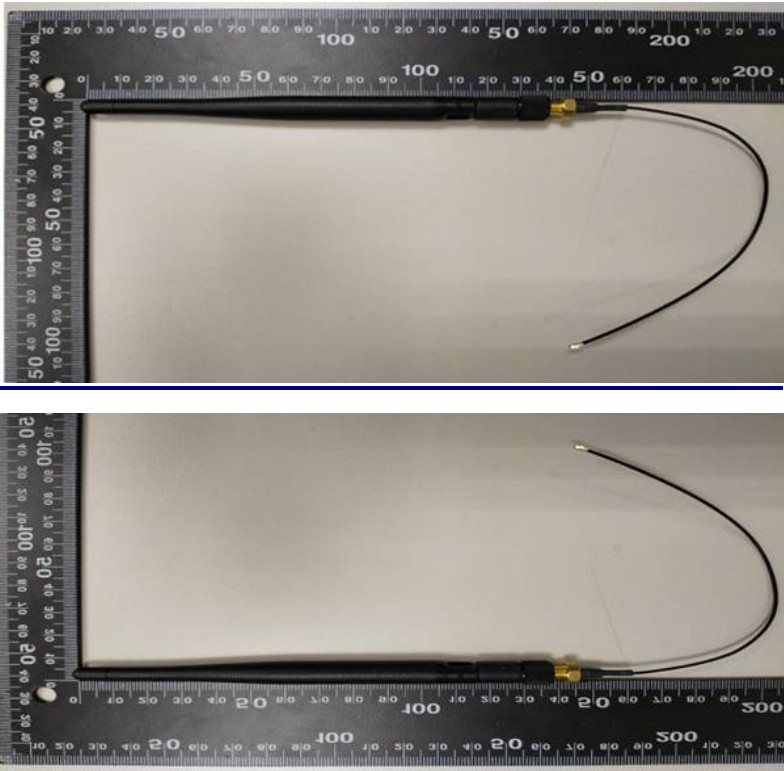
Note: antenna photo should include L type ruler

Include the dimensioned photo and drawing of Aux antenna here.

Aux Antenna Drawing:



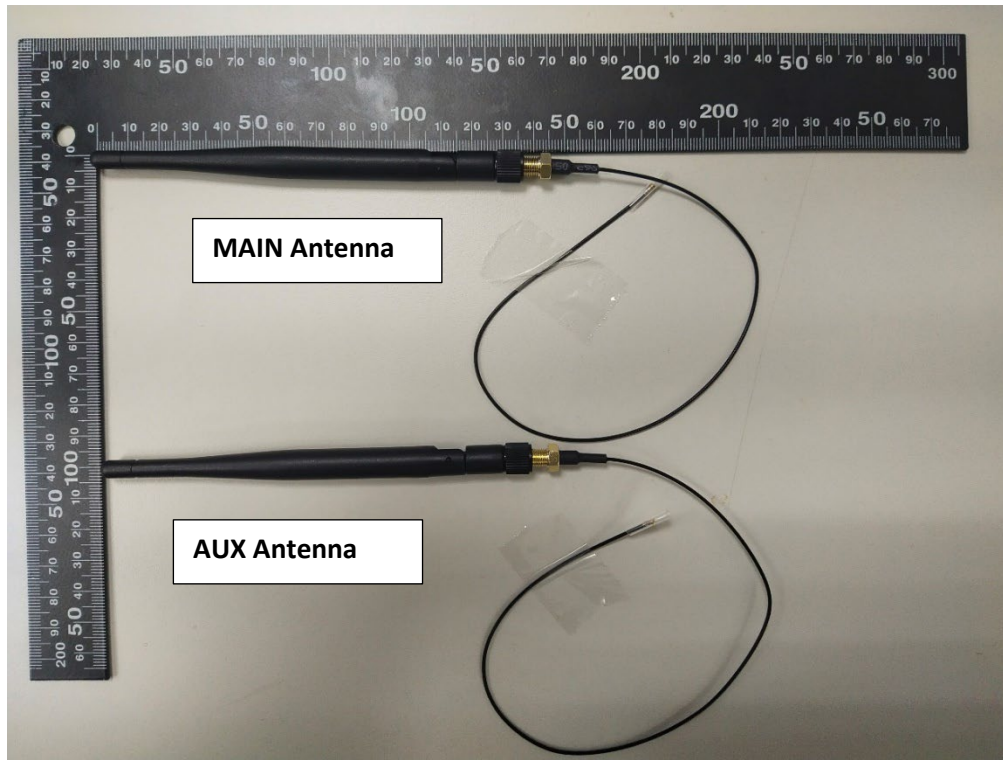
Aux Antenna Photo (Front/Back):



Include front view photo of all 2 antennas here.

Antenna Manufacturer: VSO

Antenna Part Number: JR2Q00498-X0 (Main), JR2Q00498-X0 (Aux)



Include back view photo of all 2 antennas here.

Antenna Manufacturer: VSO

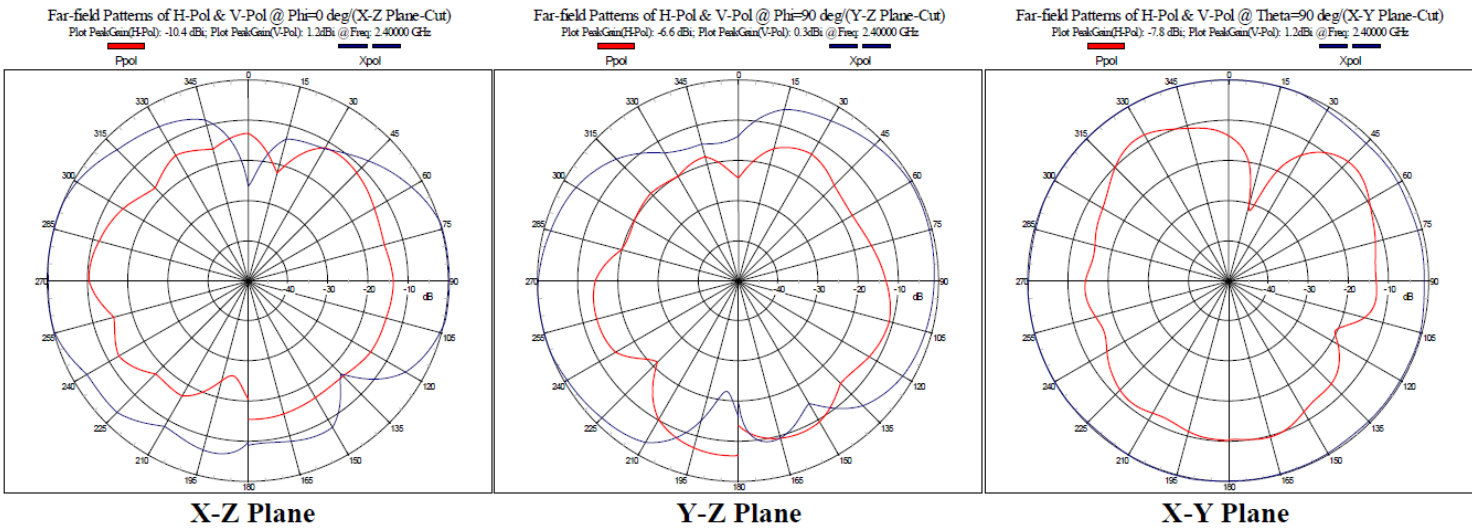
Antenna Part Number: JR2Q00498-X0 (Main), JR2Q00498-X0 (Aux)

Note: antenna photo should include L type ruler

Section 3. Radiation characteristics of antenna loaded in Host Platform

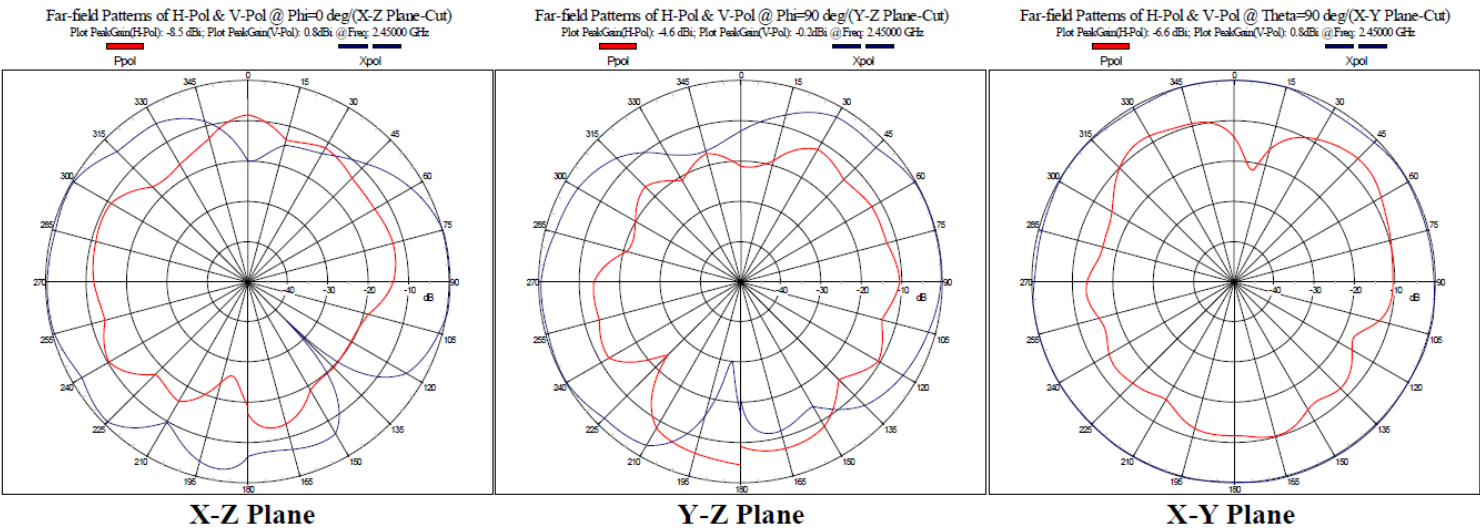
2400-2500MHz radiation characteristic

Main antenna: 2400 MHz



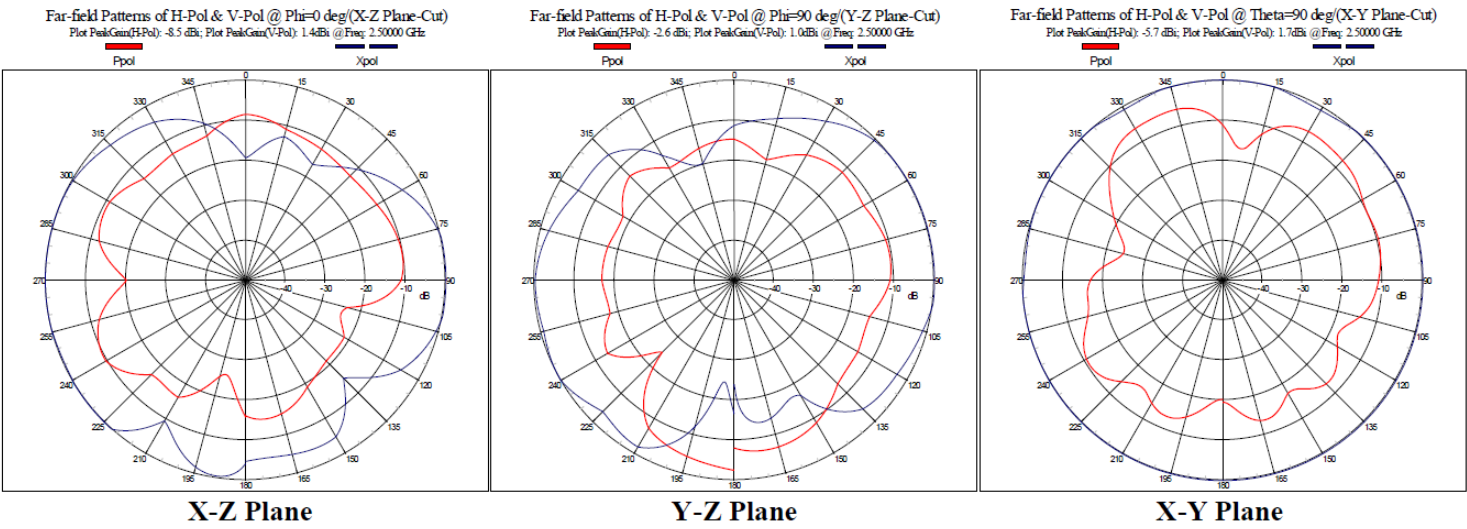
Center Frequency	2400 MHz
Three-dimensional (dBi) peak	2.4

Main antenna: 2450 MHz



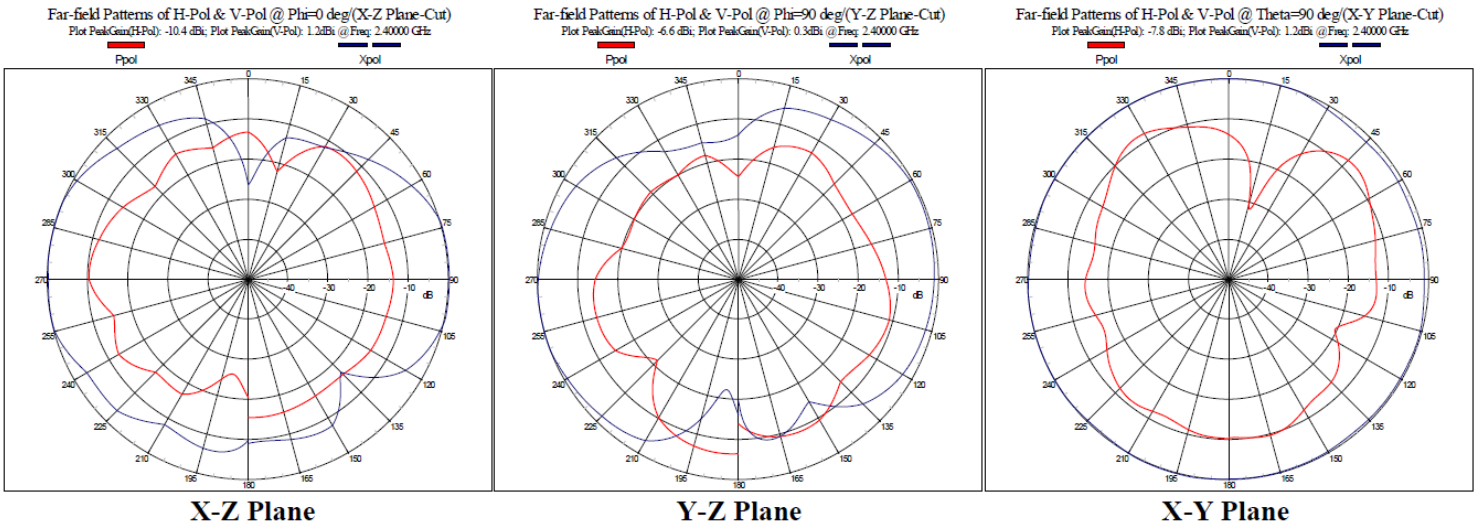
Center Frequency	2450 MHz
Three-dimensional (dBi) peak	1.9

Main antenna: 2500 MHz



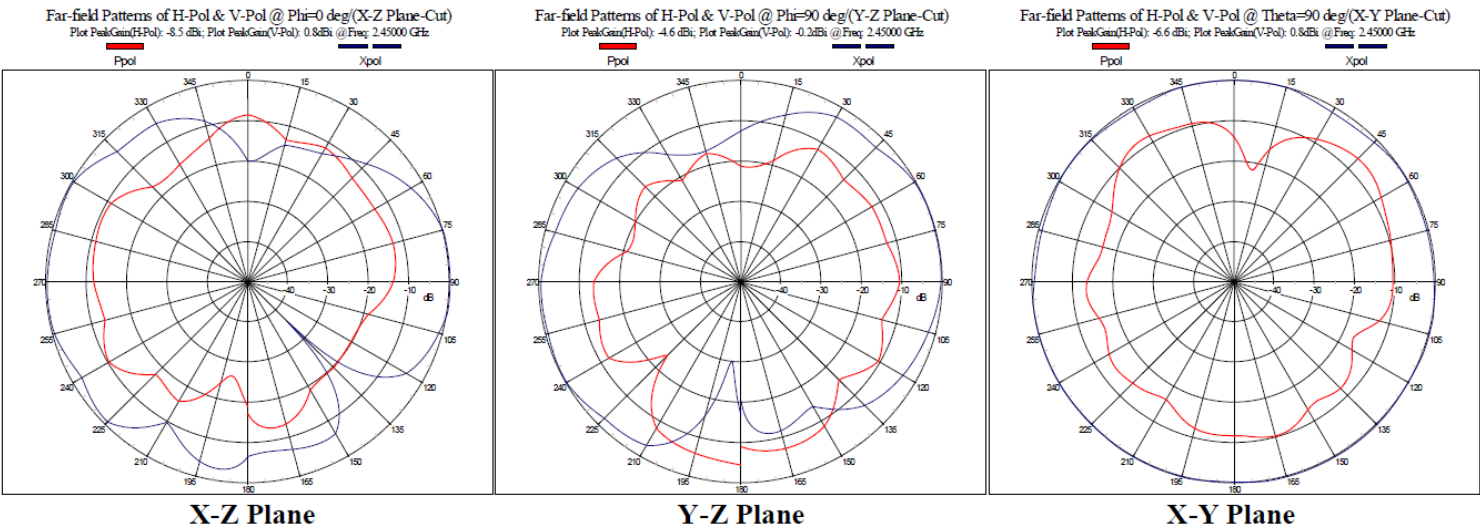
Center Frequency	2500 MHz
Three-dimensional (dBi) peak	2.7

Aux antenna: 2400 MHz



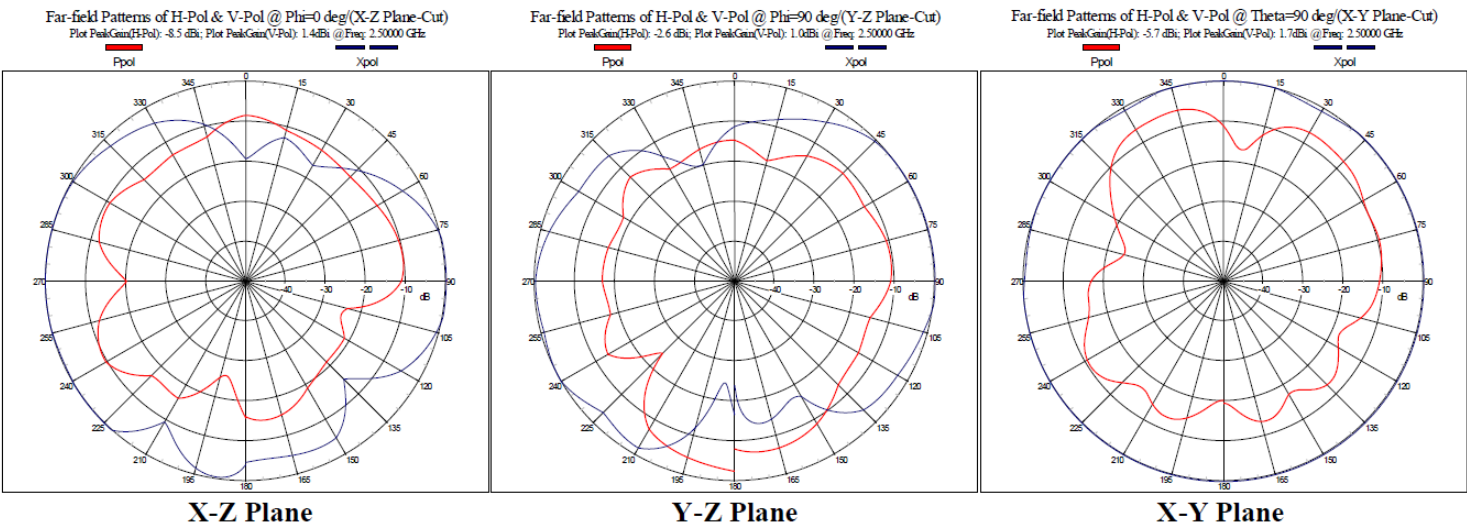
Center Frequency	2400 MHz
Three-dimensional (dBi) peak	2.4

Aux antenna: 2450 MHz



Center Frequency	2450 MHz
Three-dimensional (dBi) peak	1.9

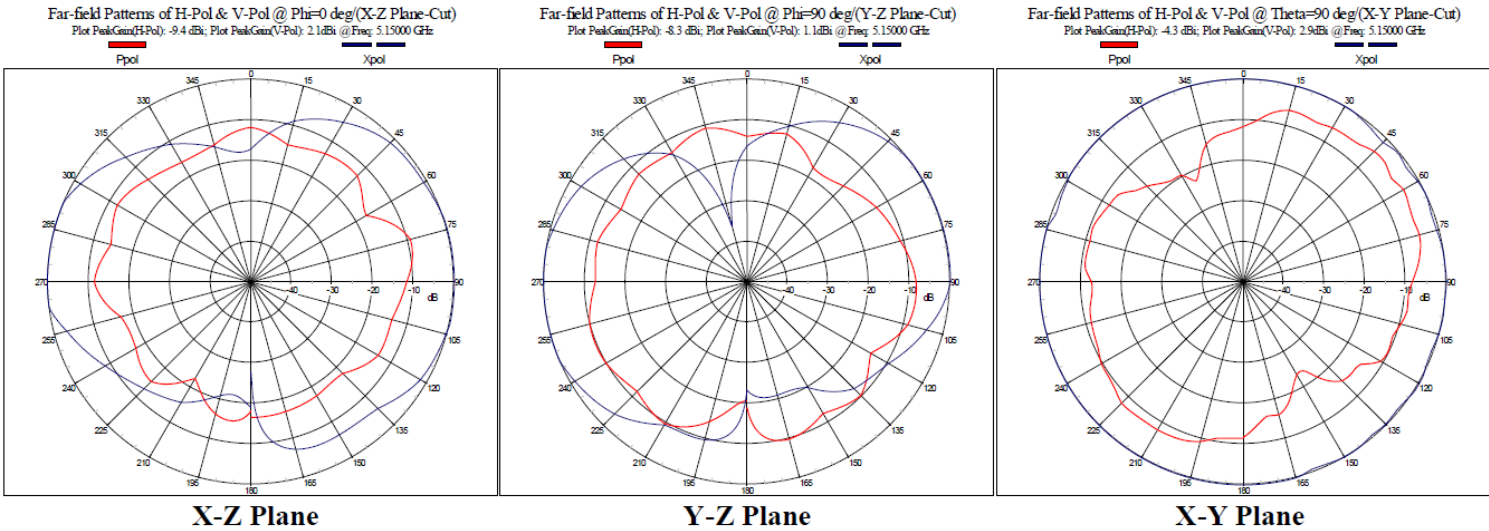
Aux antenna: 2500 MHz



Center Frequency	2500 MHz
Three-dimensional (dBi) peak	2.7

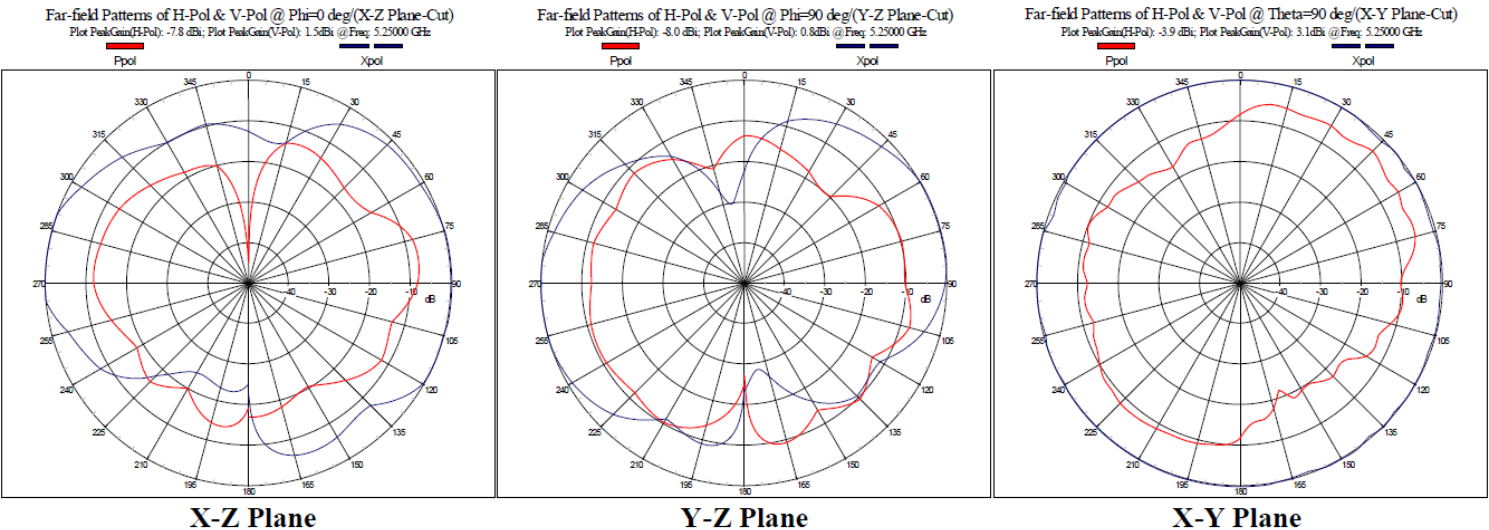
5150-5350MHz radiation characteristic

Main antenna: 5150 MHz



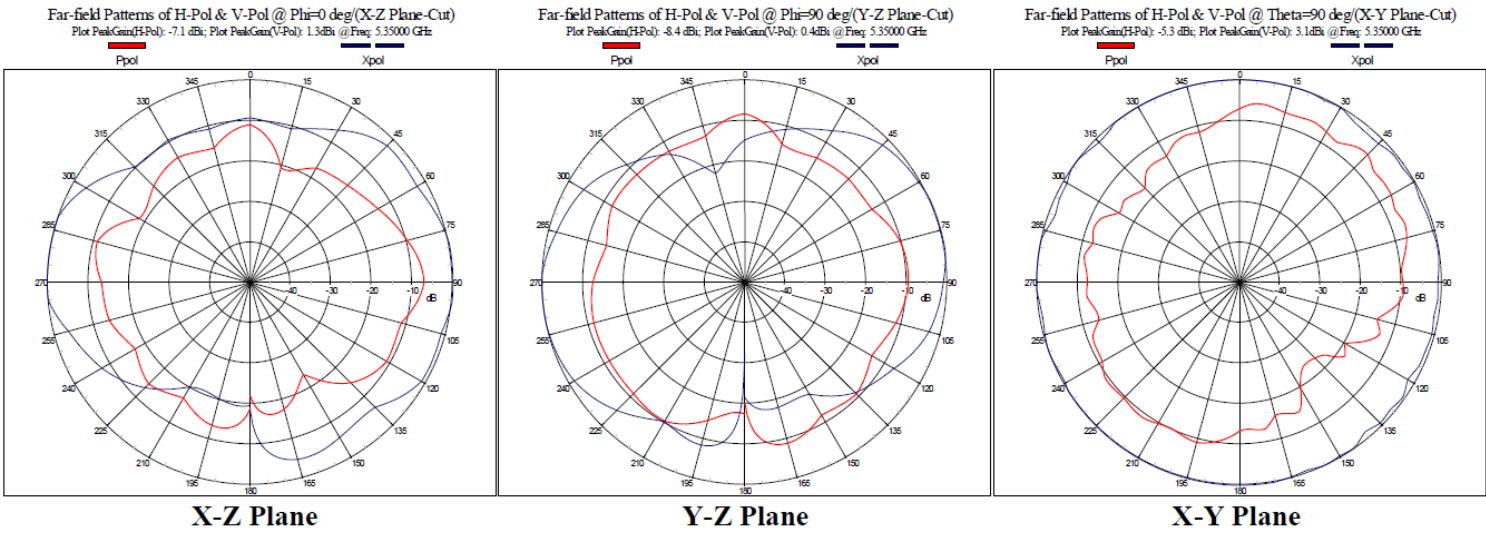
Center Frequency	5150 MHz
Three-dimensional (dBi) peak	3.1

Main antenna: 5250 MHz



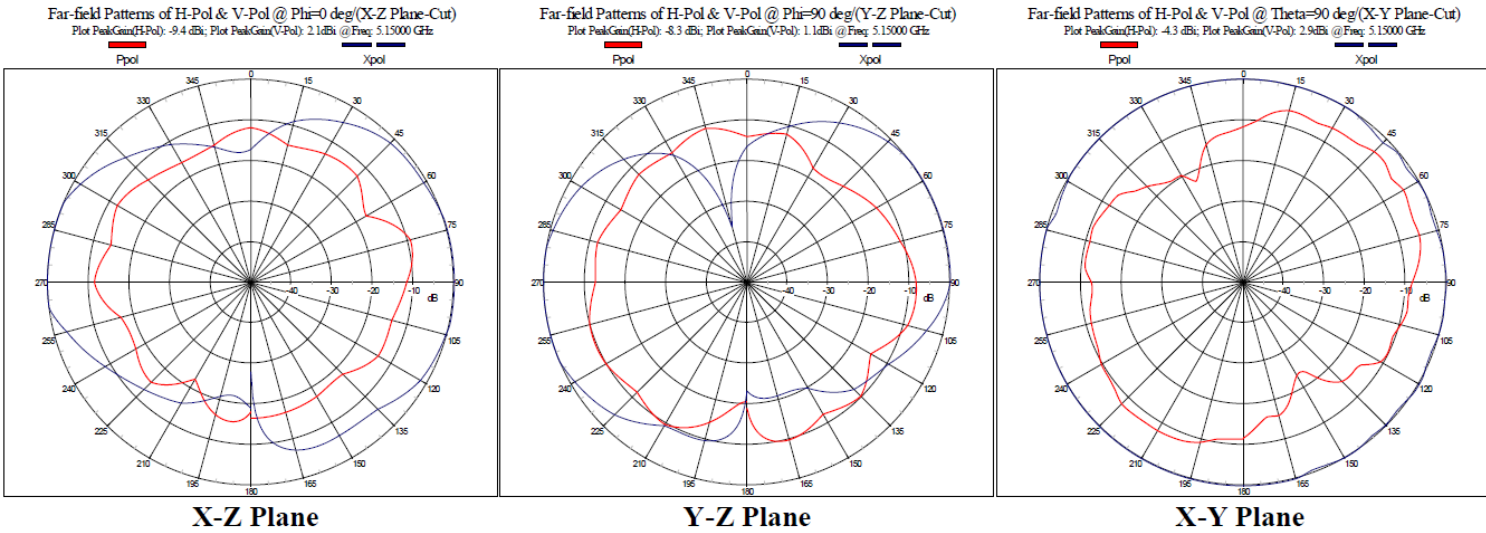
Center Frequency	5250 MHz
Three-dimensional (dBi) peak	3

Main antenna: 5350 MHz



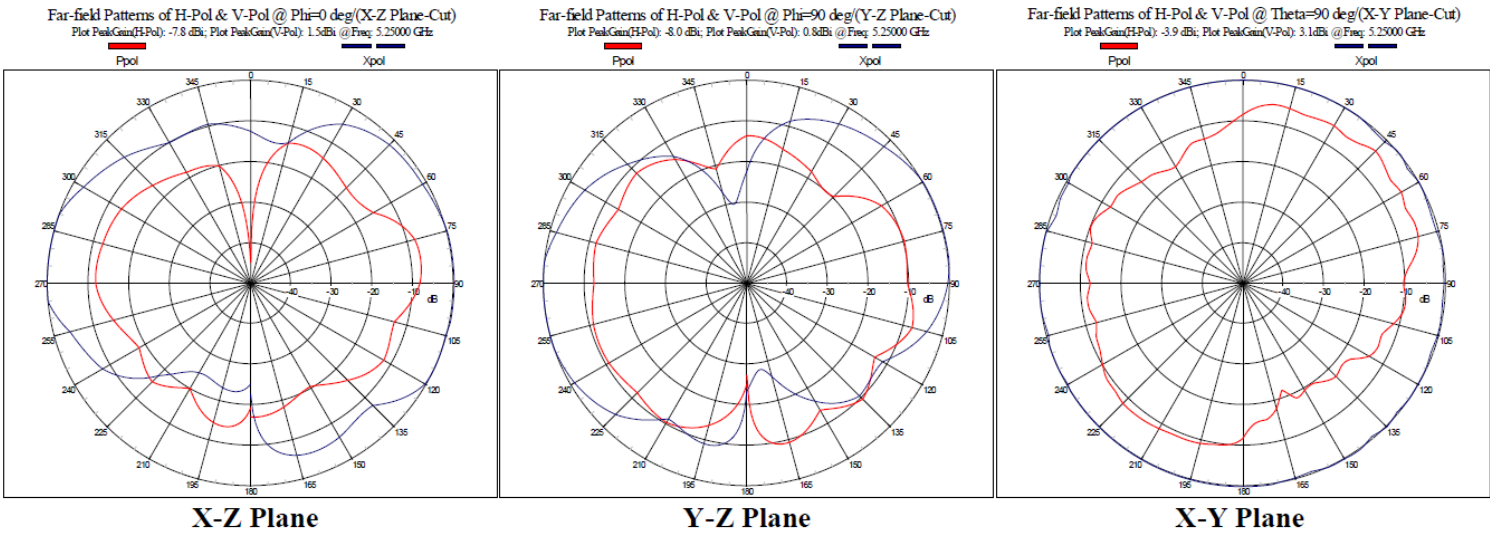
Center Frequency	5350 MHz
Three-dimensional (dBi) peak	2.8

Aux antenna: 5150 MHz



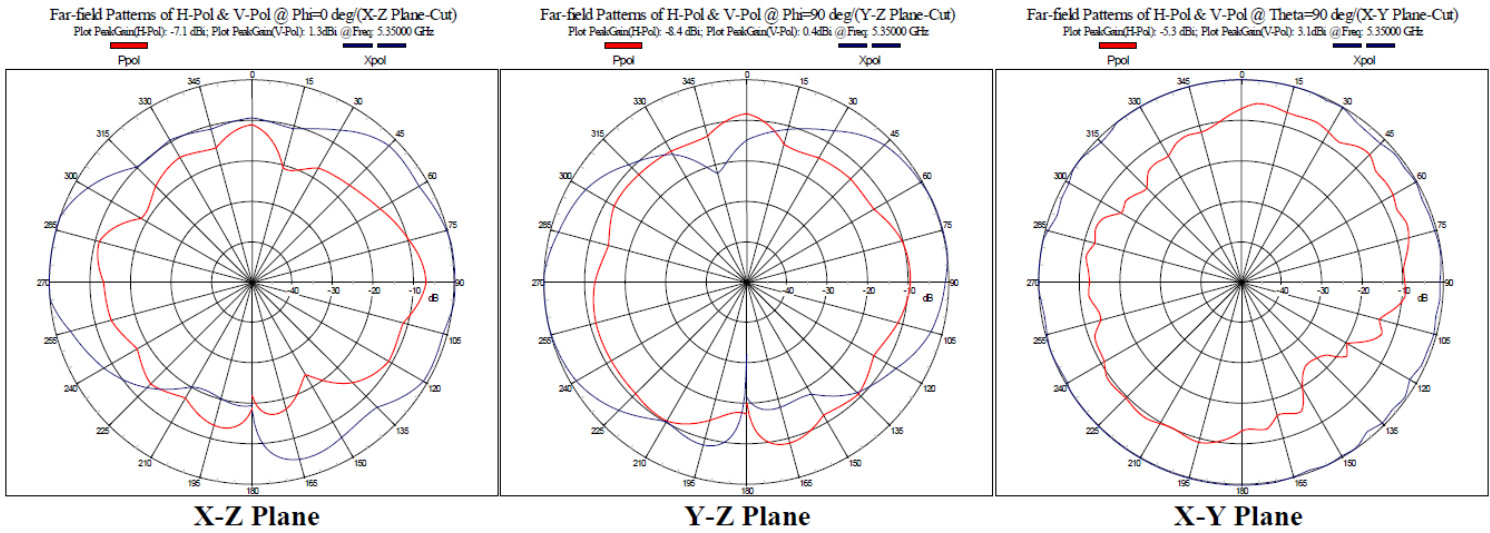
Center Frequency	5150 MHz
Three-dimensional (dBi) peak	3.1

Aux antenna: 5250 MHz



Center Frequency	5250 MHz
Three-dimensional (dBi) peak	3

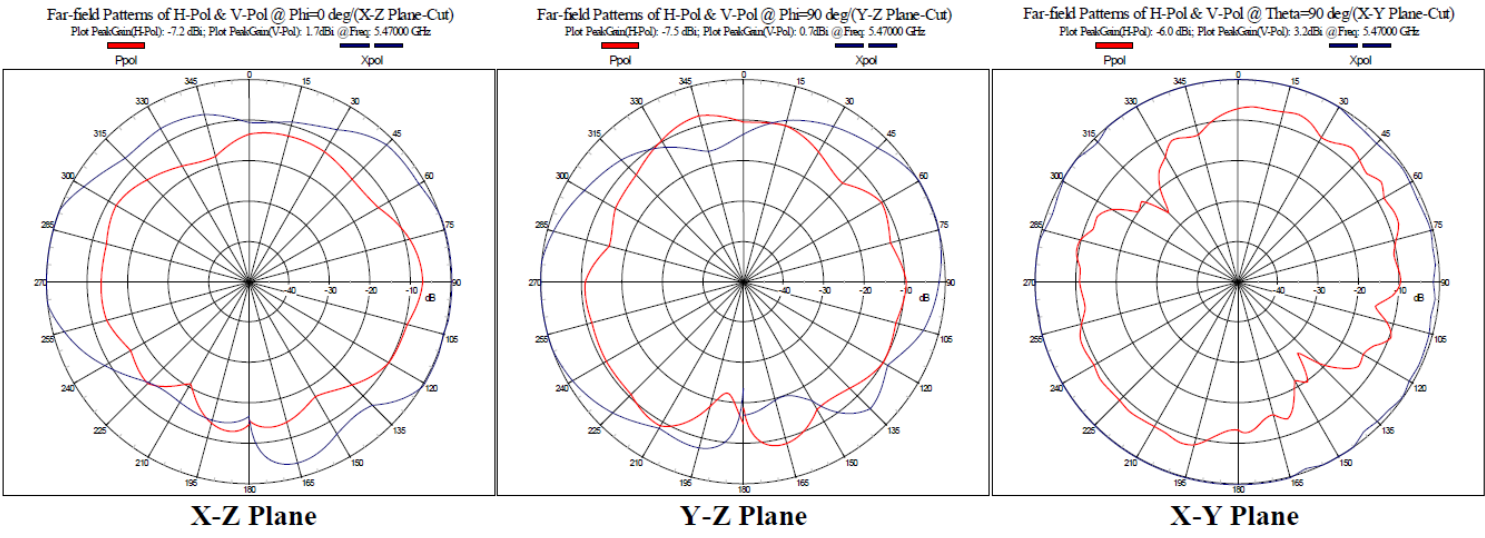
Aux antenna: 5350 MHz



Center Frequency	5350 MHz
Three-dimensional (dBi) peak	2.8

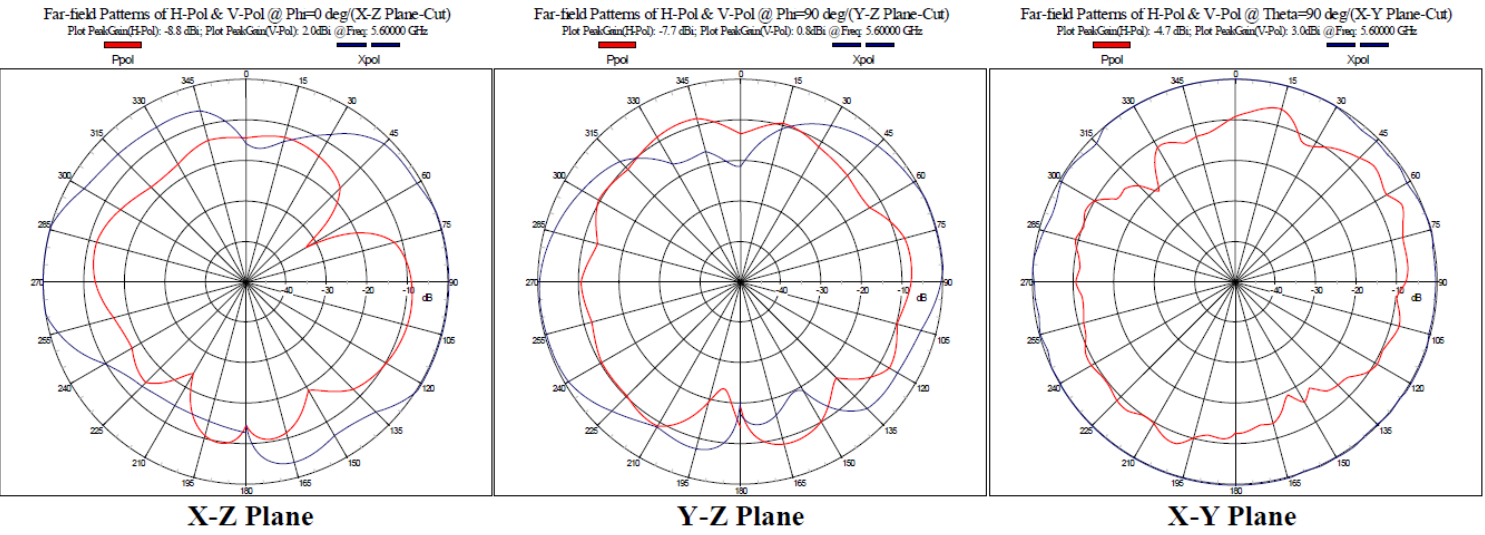
5470-5725MHz radiation characteristic

Main antenna: 5470 MHz



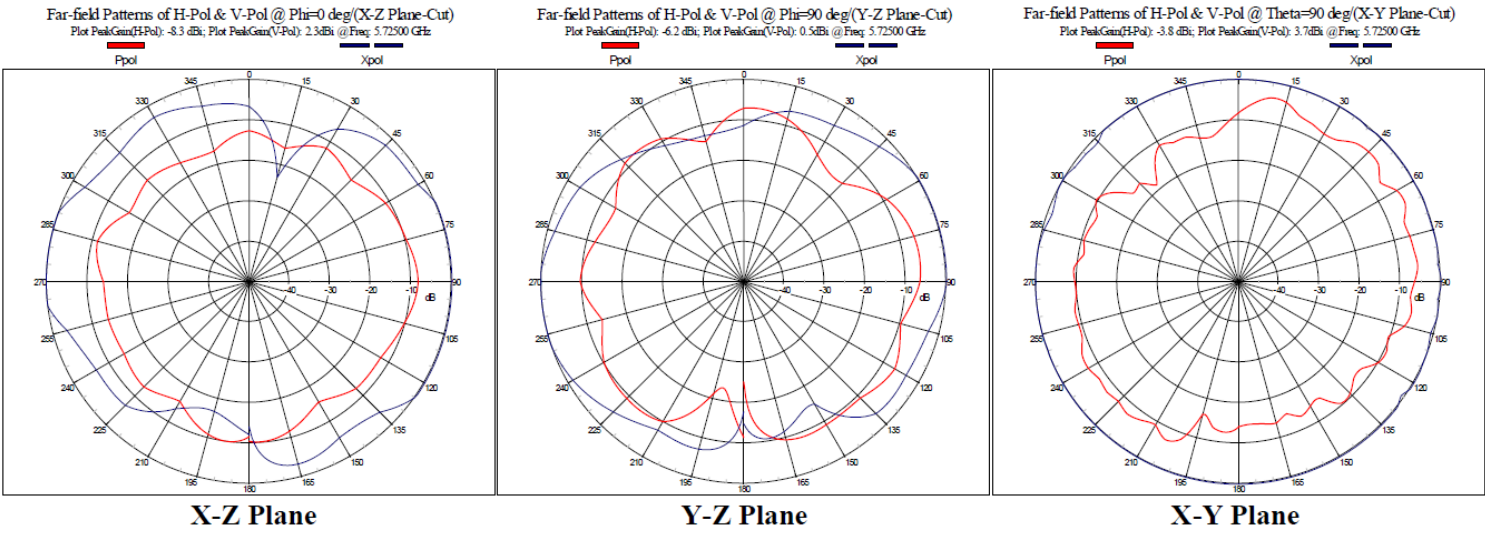
Center Frequency	5470 MHz
Three-dimensional (dBi) peak	3

Main antenna: 5600 MHz



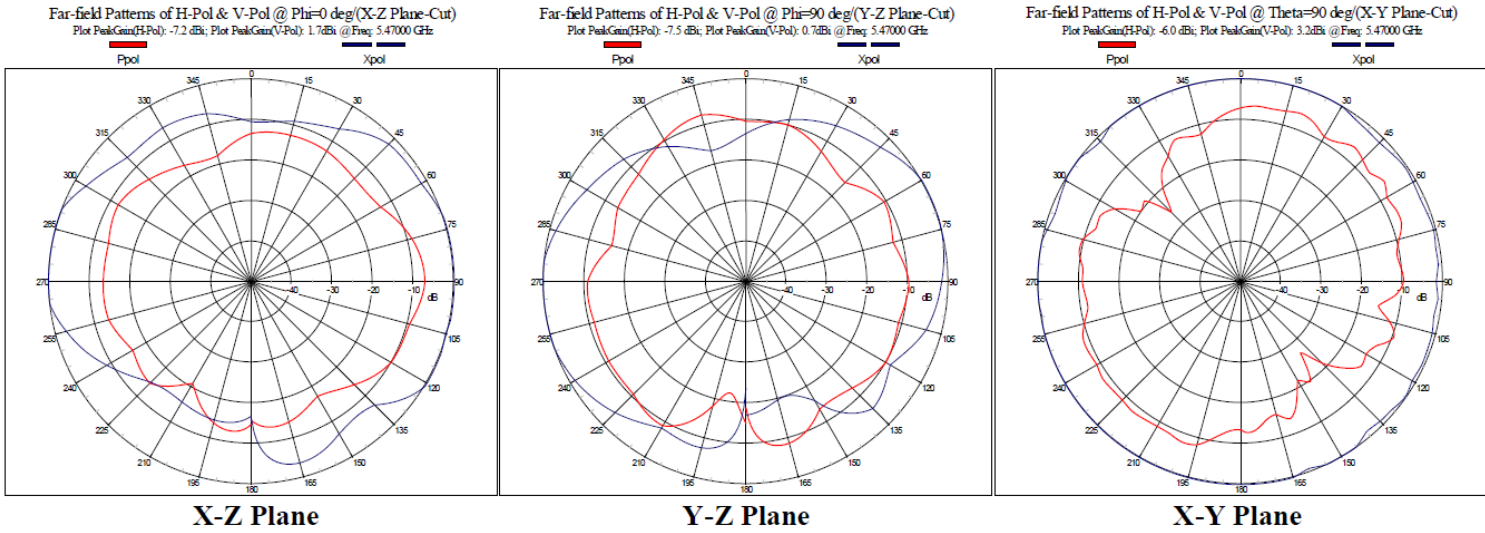
Center Frequency	5600 MHz
Three-dimensional (dBi) peak	2.8

Main antenna: 5725 MHz



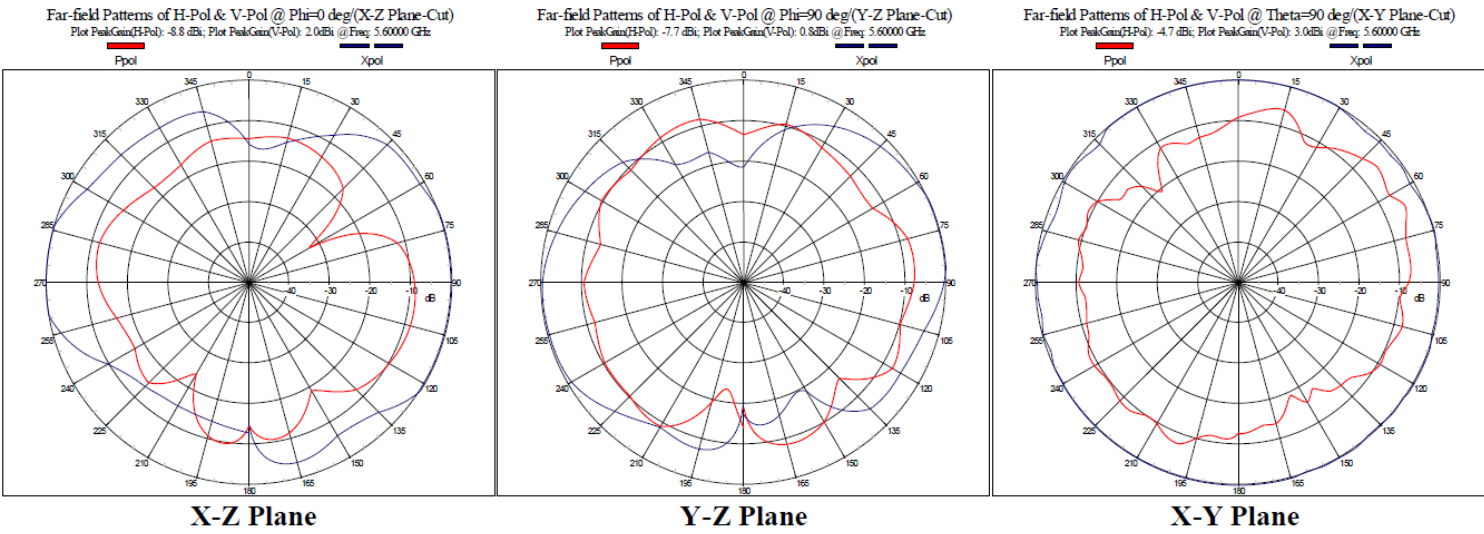
Center Frequency	5725 MHz
Three-dimensional (dBi) peak	3

Aux antenna: 5470 MHz



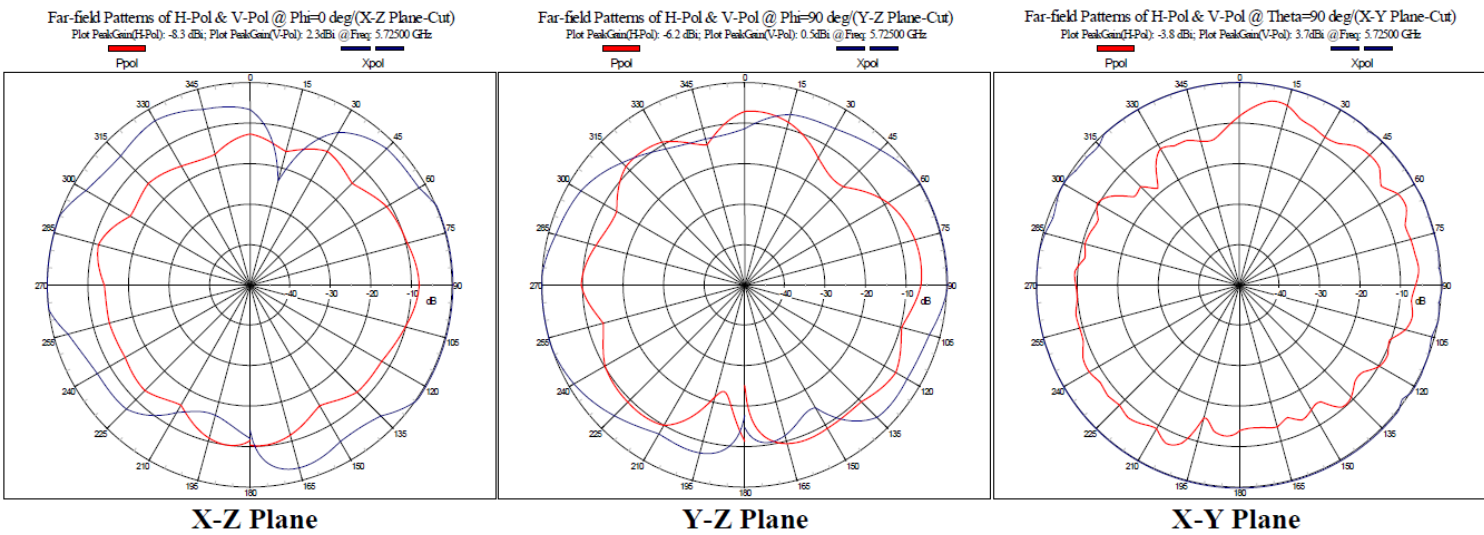
Center Frequency	5470 MHz
Three-dimensional (dBi) peak	3

Aux antenna: 5600 MHz



Center Frequency	5600 MHz
Three-dimensional (dBi) peak	2.8

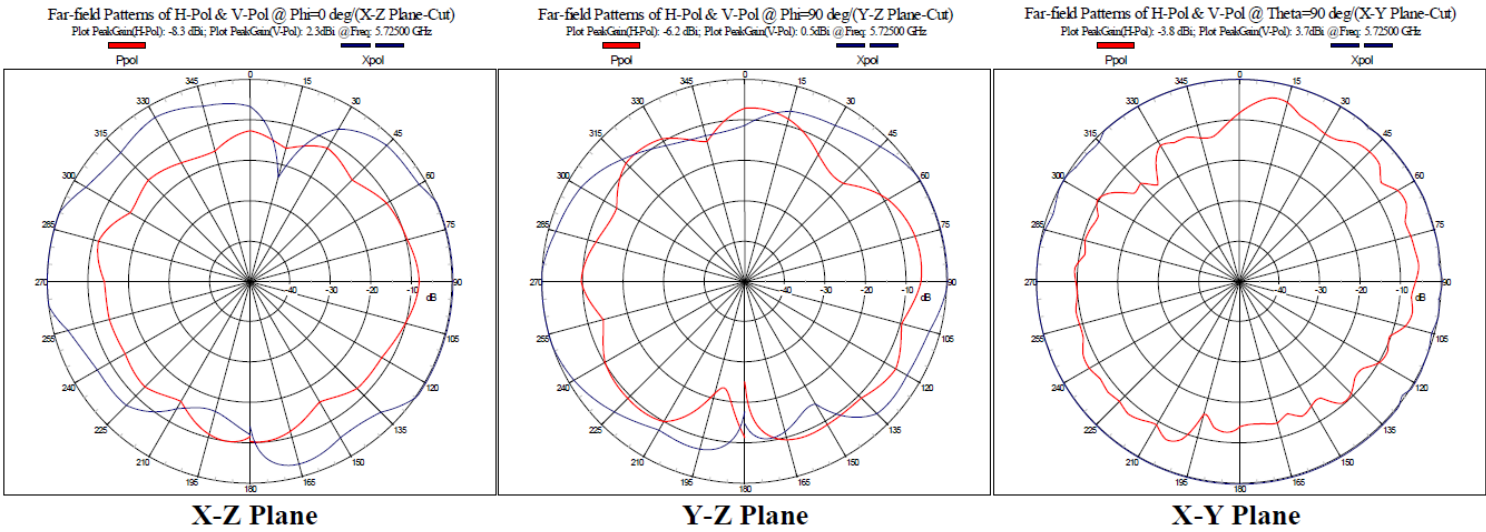
Aux antenna: 5725 MHz



Center Frequency	5725 MHz
Three-dimensional (dBi) peak	3

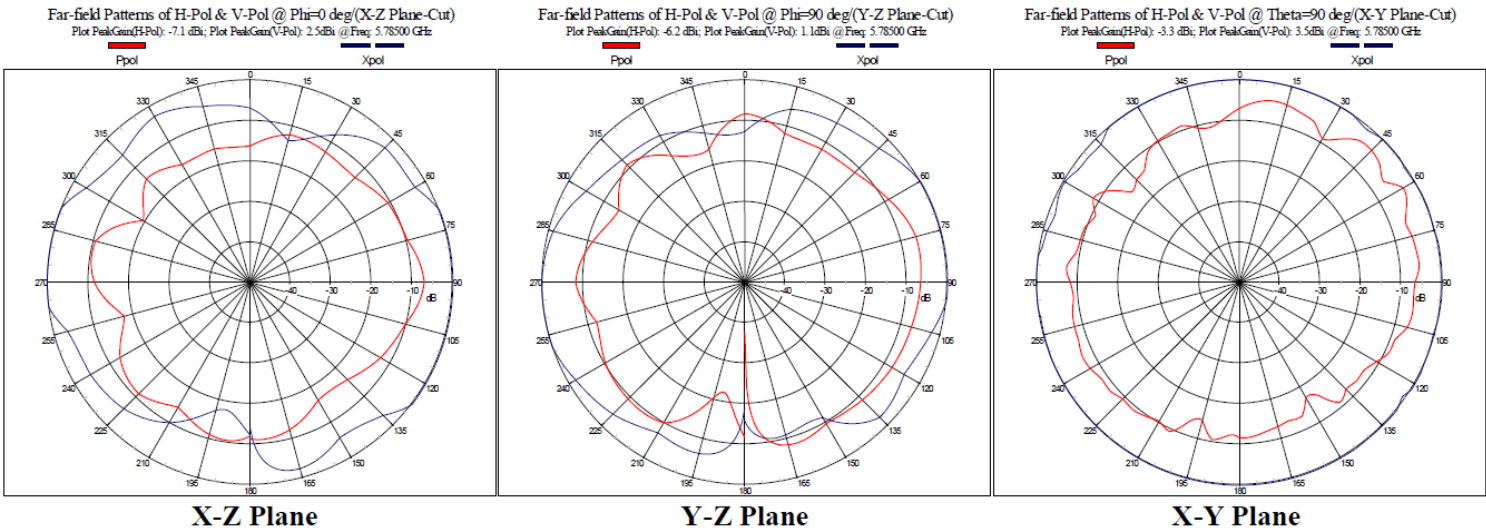
5725-5850MHz radiation characteristic

Main antenna: 5725 MHz



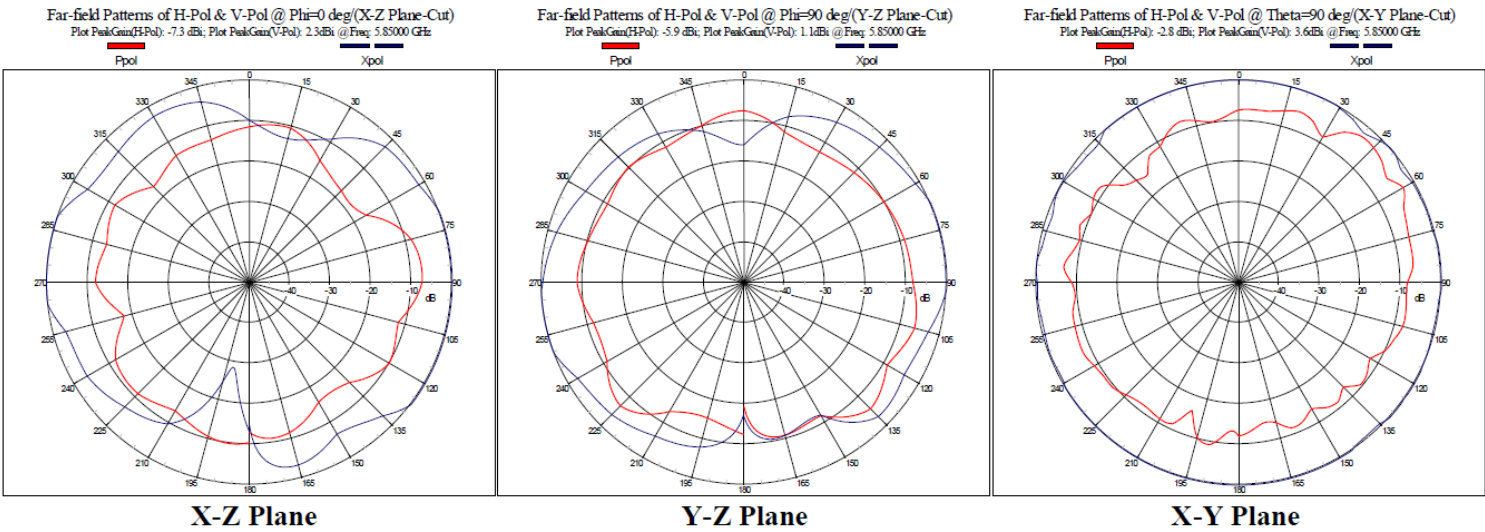
Center Frequency	5725 MHz
Three-dimensional (dBi) peak	3

Main antenna: 5785 MHz



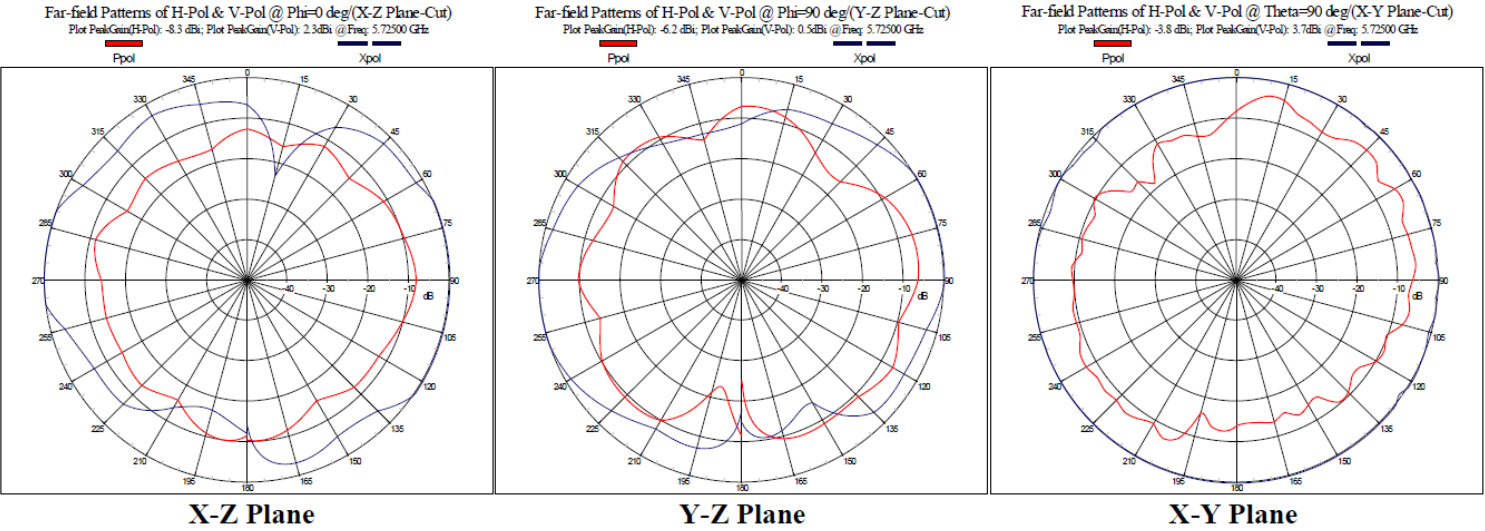
Center Frequency	5785 MHz
Three-dimensional (dBi) peak	3.5

Main antenna: 5850 MHz



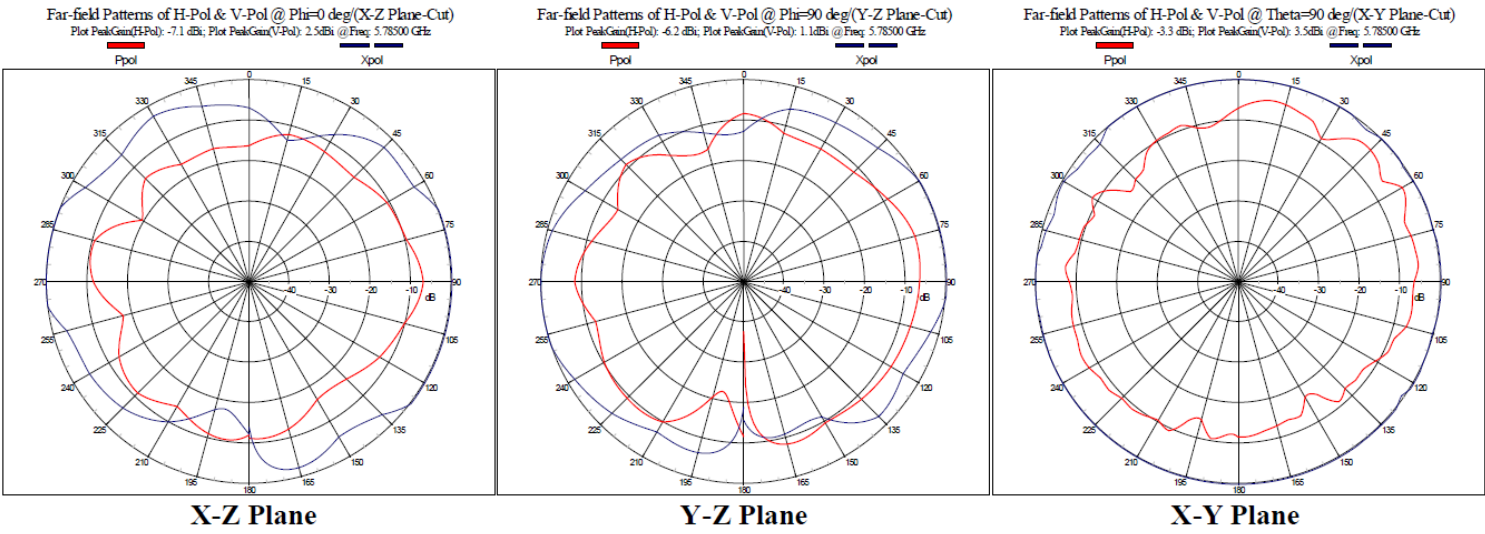
Center Frequency	5850 MHz
Three-dimensional (dBi) peak	3.3

Aux antenna: 5725 MHz



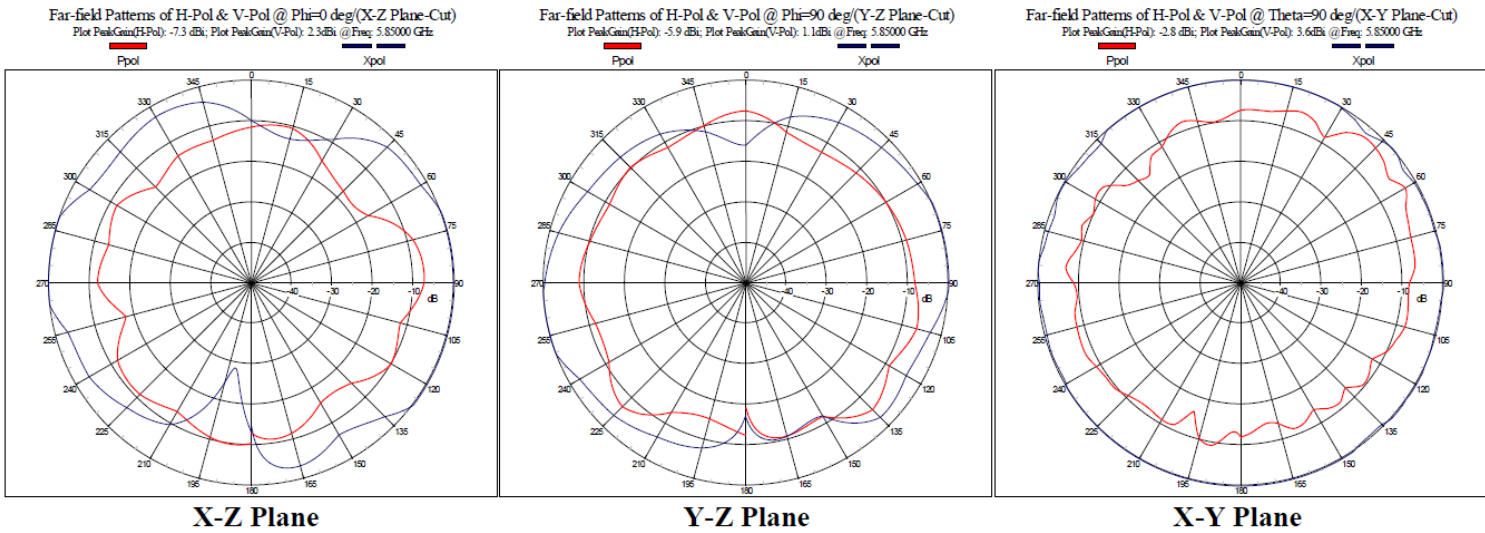
Center Frequency	5725 MHz
Three-dimensional (dBi) peak	3

Aux antenna: 5785 MHz



Center Frequency	5785 MHz
Three-dimensional (dBi) peak	3.5

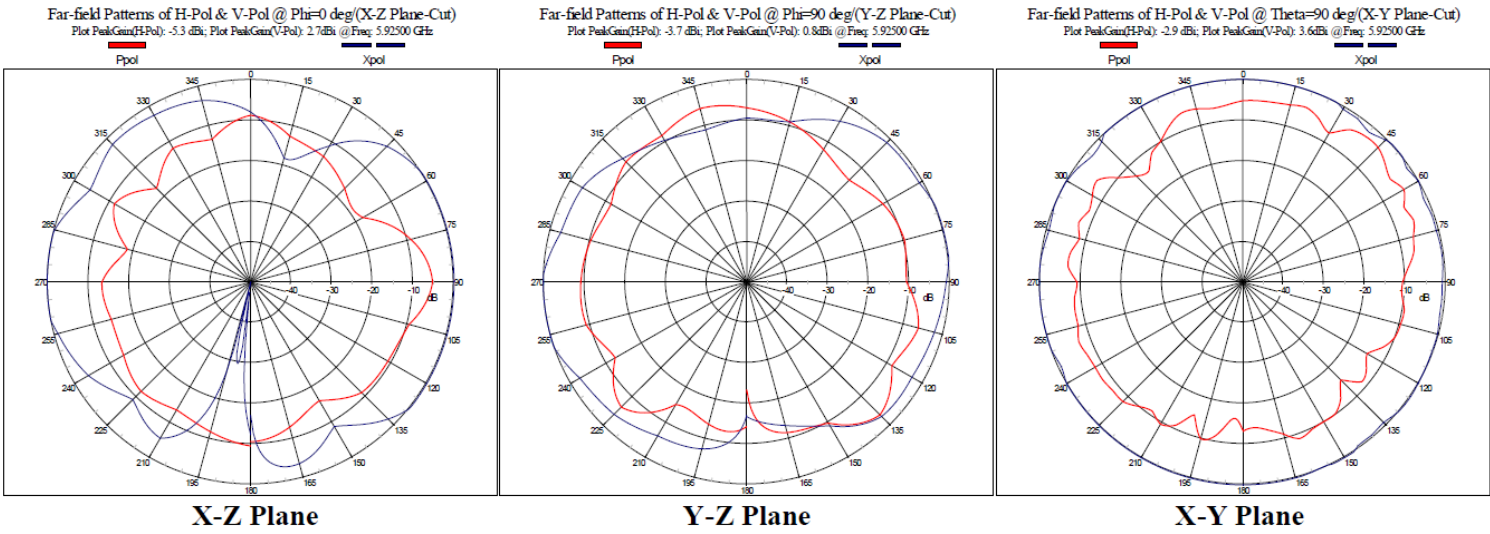
Aux antenna: 5850 MHz



Center Frequency	5850 MHz
Three-dimensional (dBi) peak	3.3

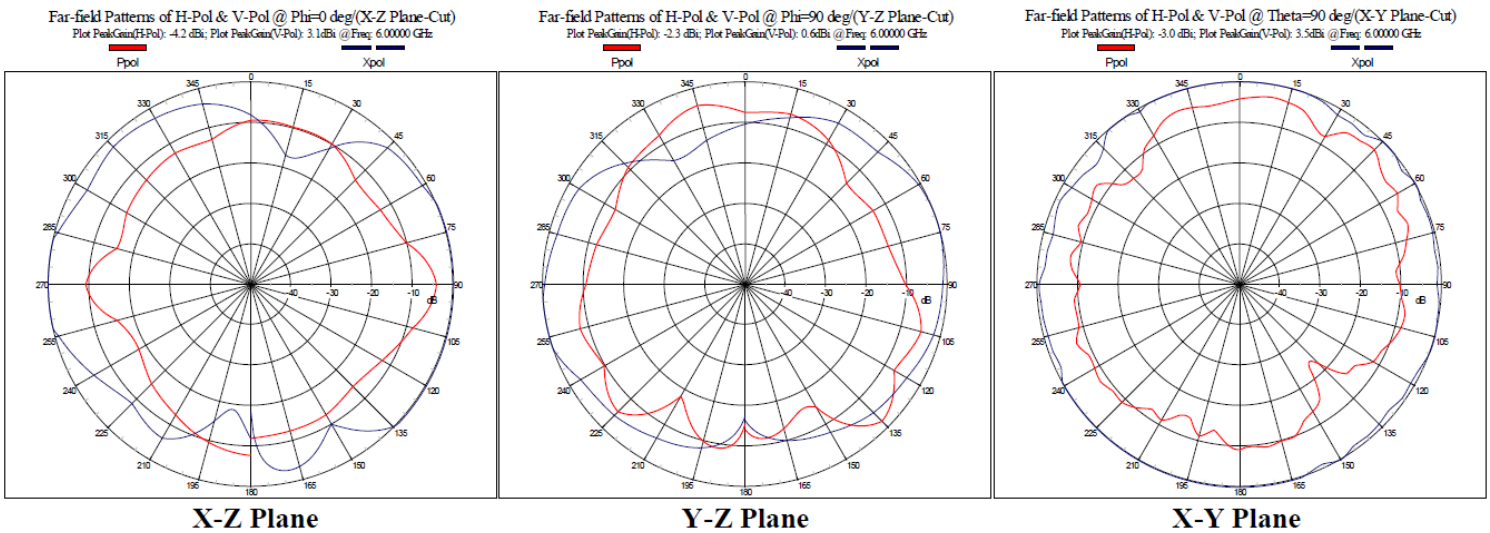
5925-6425MHz radiation characteristic

Main antenna: 5925 MHz



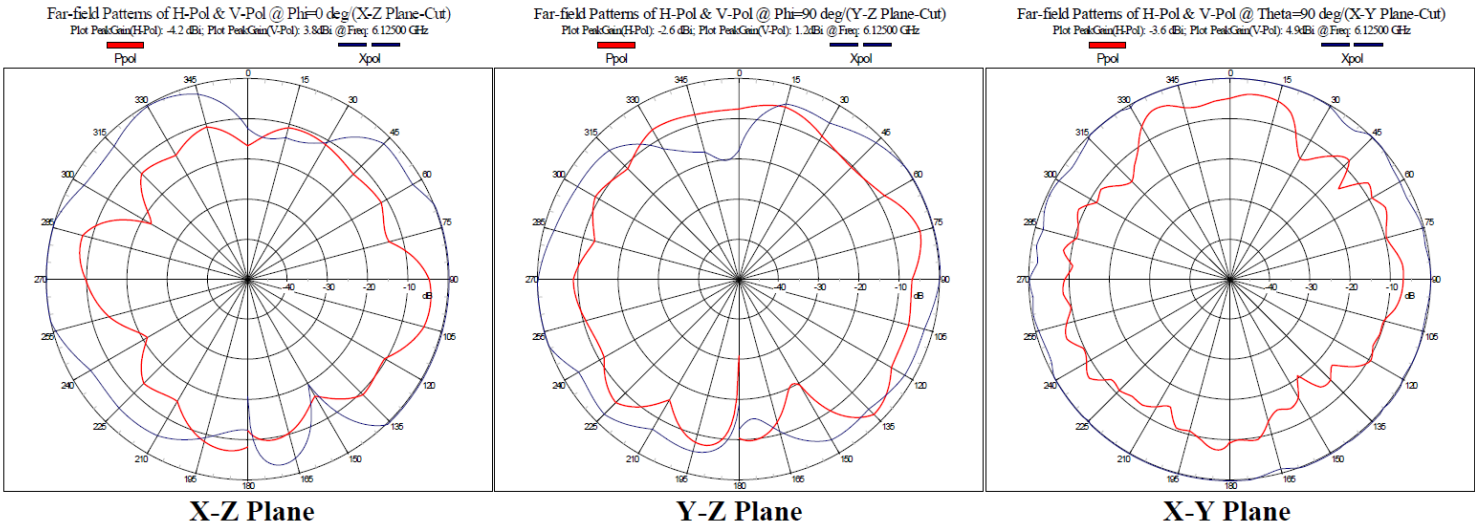
Center Frequency	5925 MHz
Three-dimensional (dBi) peak	3.1

Main antenna: 6000 MHz



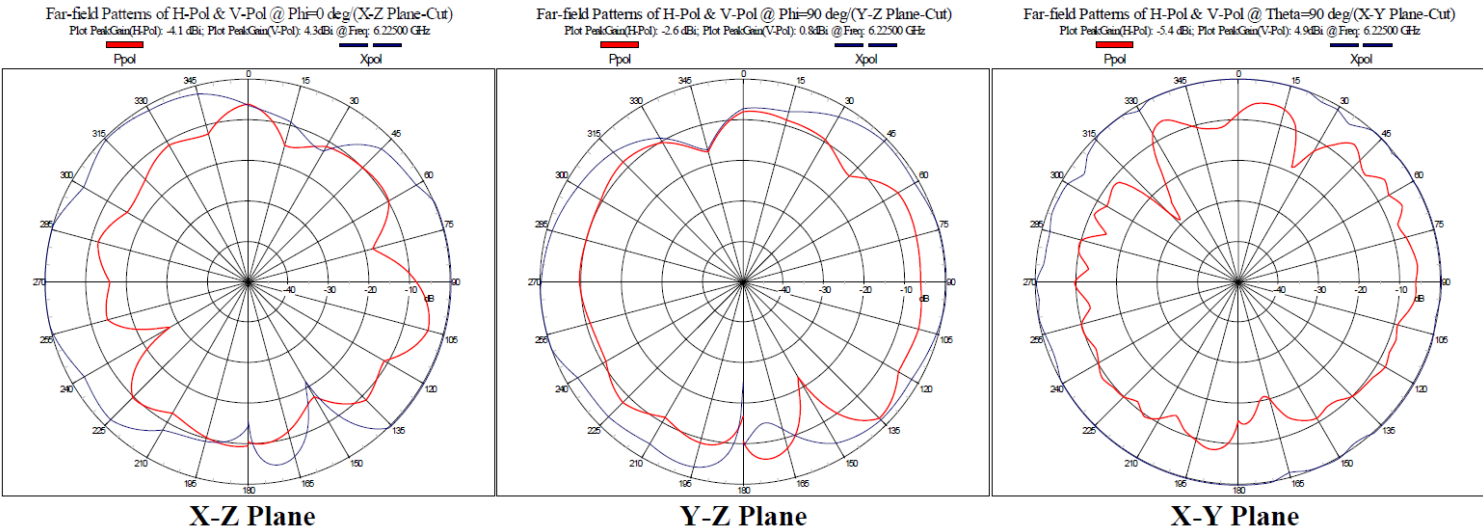
Center Frequency	6000 MHz
Three-dimensional (dBi) peak	3.1

Main antenna: 6125 MHz



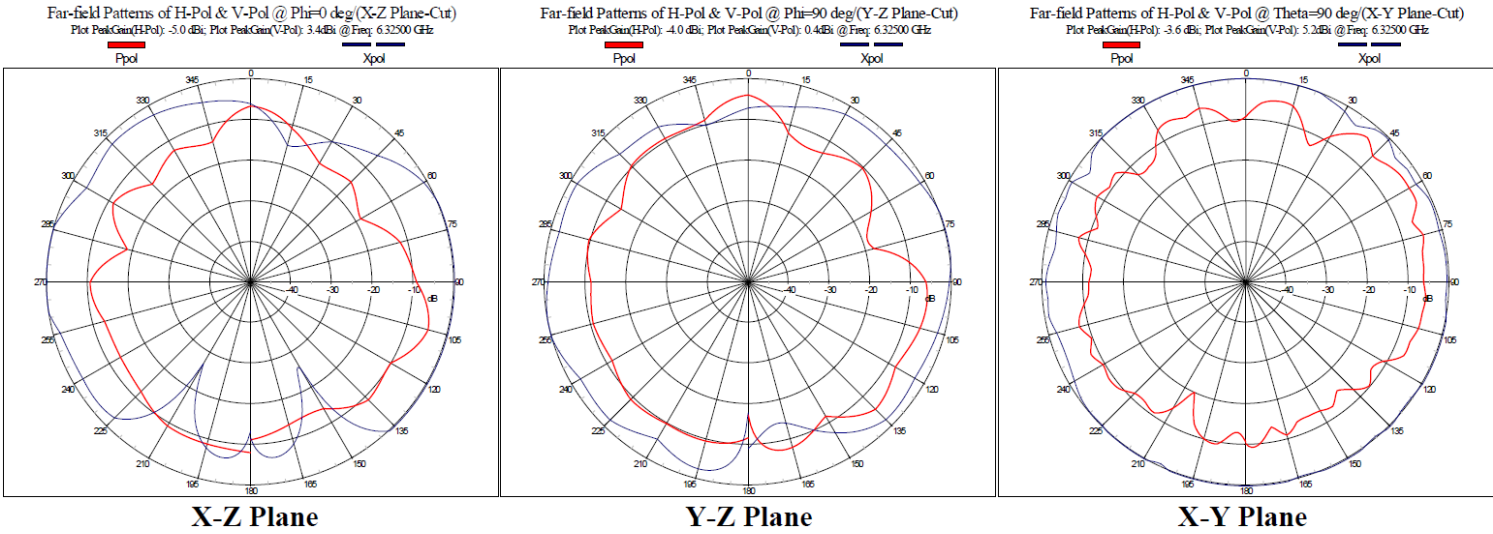
Center Frequency	6125 MHz
Three-dimensional (dBi) peak	2.8

Main antenna: 6225 MHz



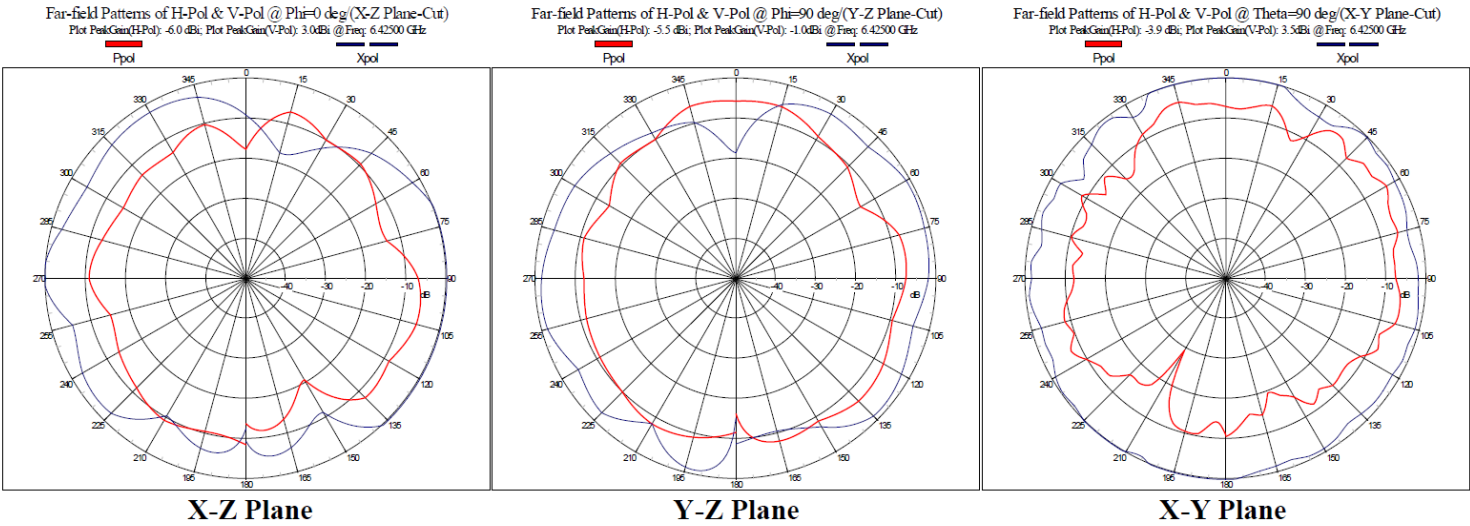
Center Frequency	6225 MHz
Three-dimensional (dBi) peak	2.8

Main antenna: 6325 MHz



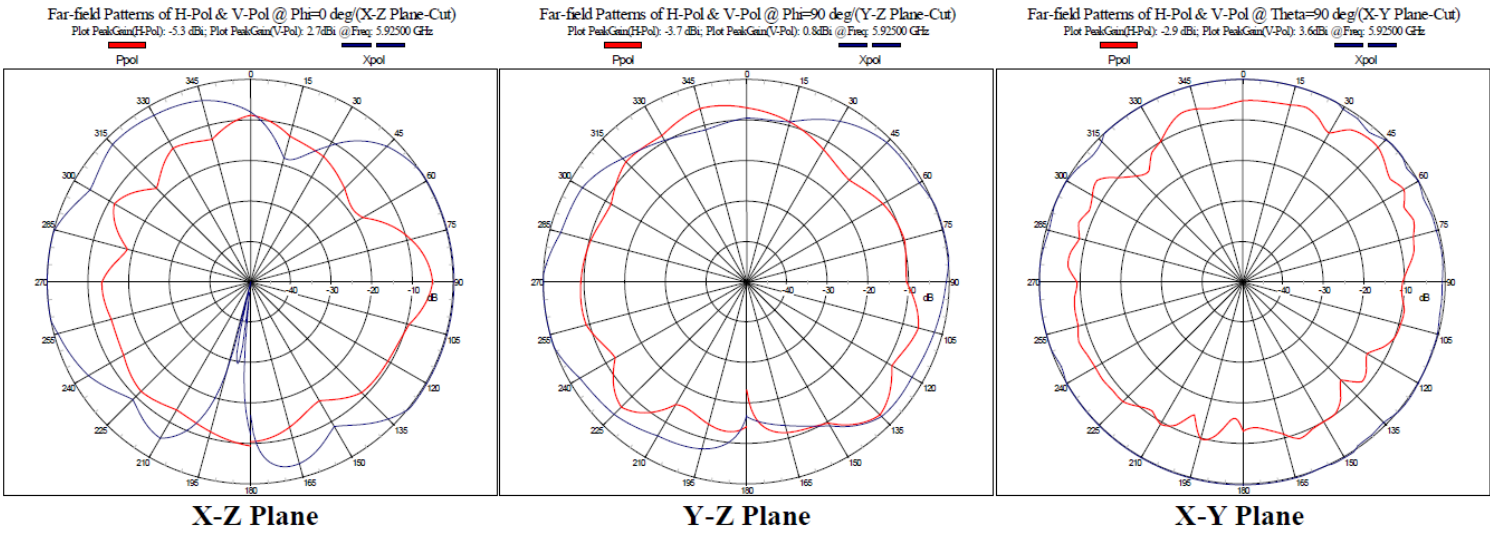
Center Frequency	6325 MHz
Three-dimensional (dBi) peak	2.8

Main antenna: 6425 MHz



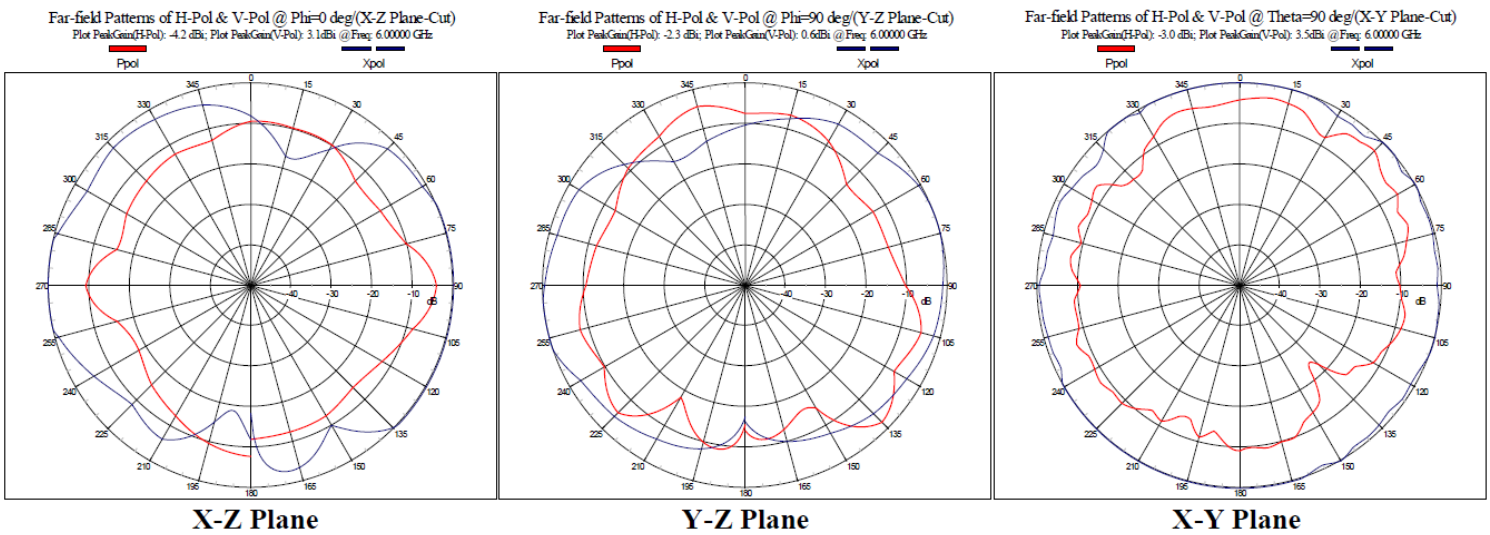
Center Frequency	6425 MHz
Three-dimensional (dBi) peak	2.9

Aux antenna: 5925 MHz



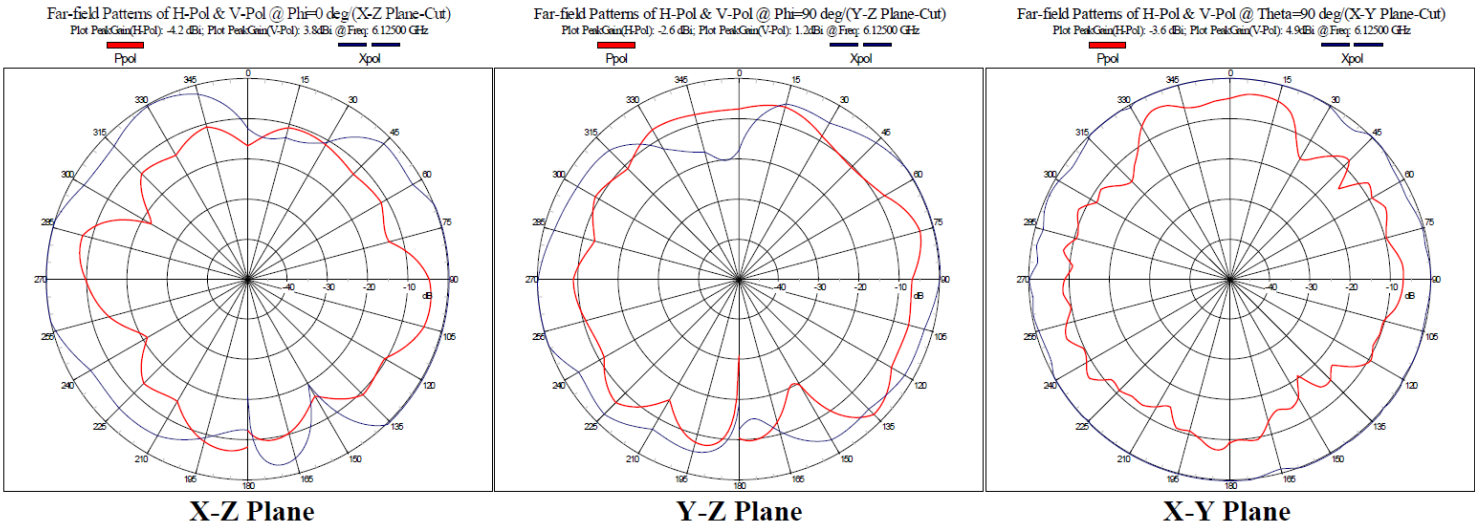
Center Frequency	5925 MHz
Three-dimensional (dBi) peak	3.1

Aux antenna: 6000 MHz



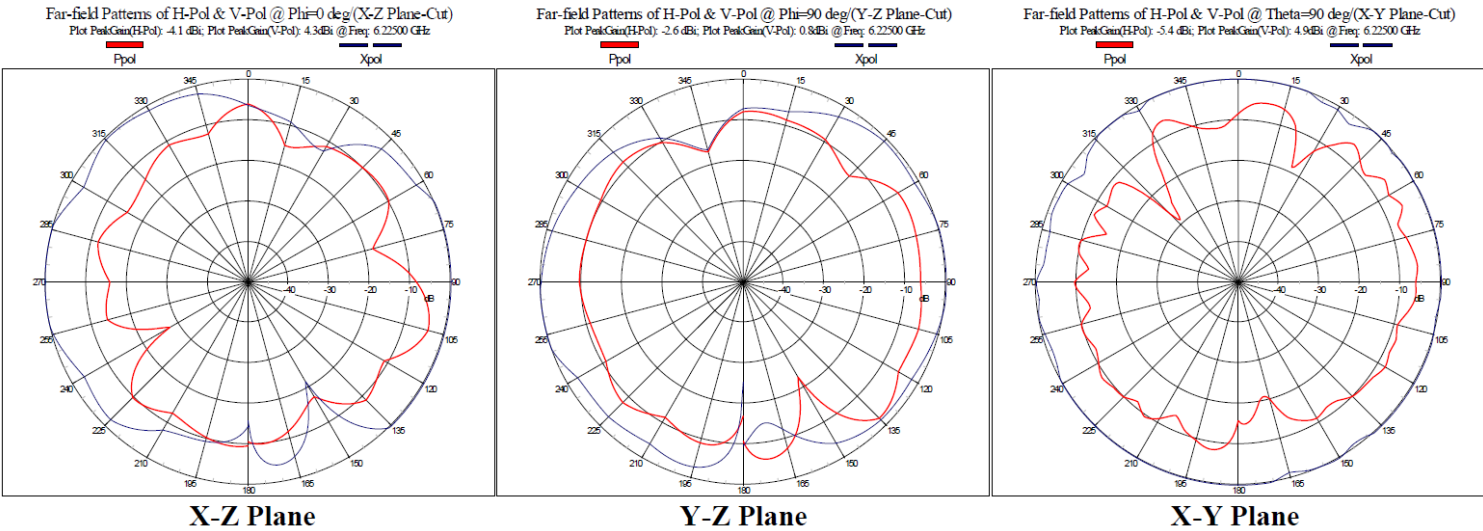
Center Frequency	6000 MHz
Three-dimensional (dBi) peak	3.1

Aux antenna: 6125 MHz



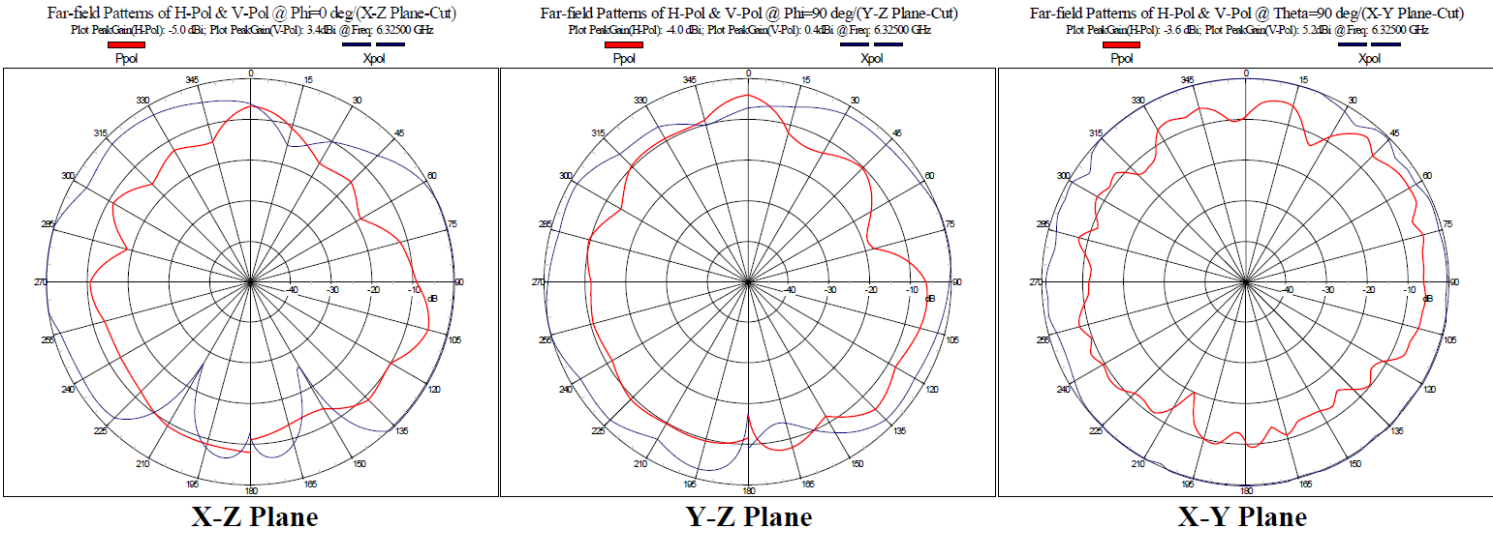
Center Frequency	6125 MHz
Three-dimensional (dBi) peak	2.8

Aux antenna: 6225 MHz



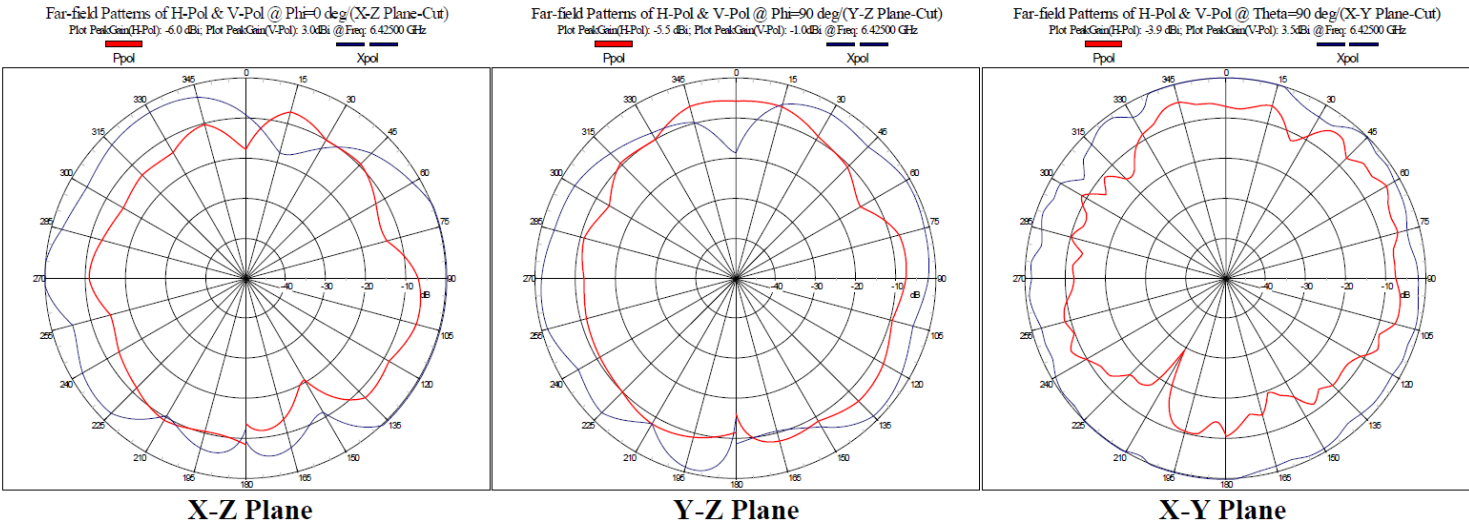
Center Frequency	6225 MHz
Three-dimensional (dBi) peak	2.8

Aux antenna: 6325 MHz



Center Frequency	6325 MHz
Three-dimensional (dBi) peak	2.8

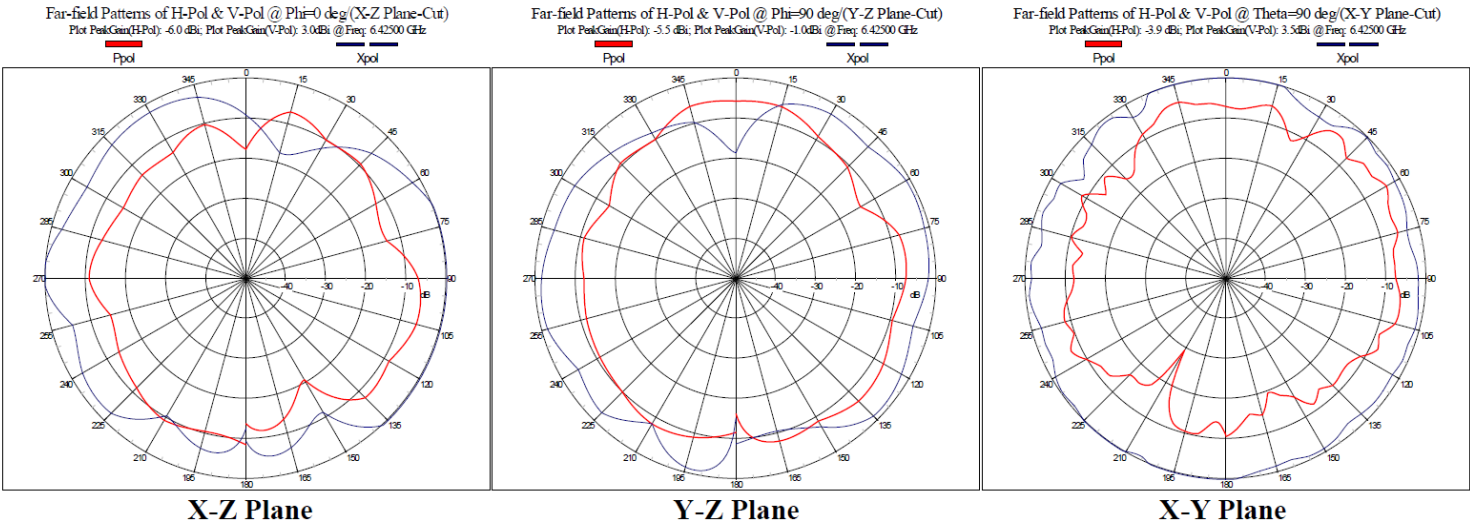
Aux antenna: 6425 MHz



Center Frequency	6425 MHz
Three-dimensional (dBi) peak	2.9

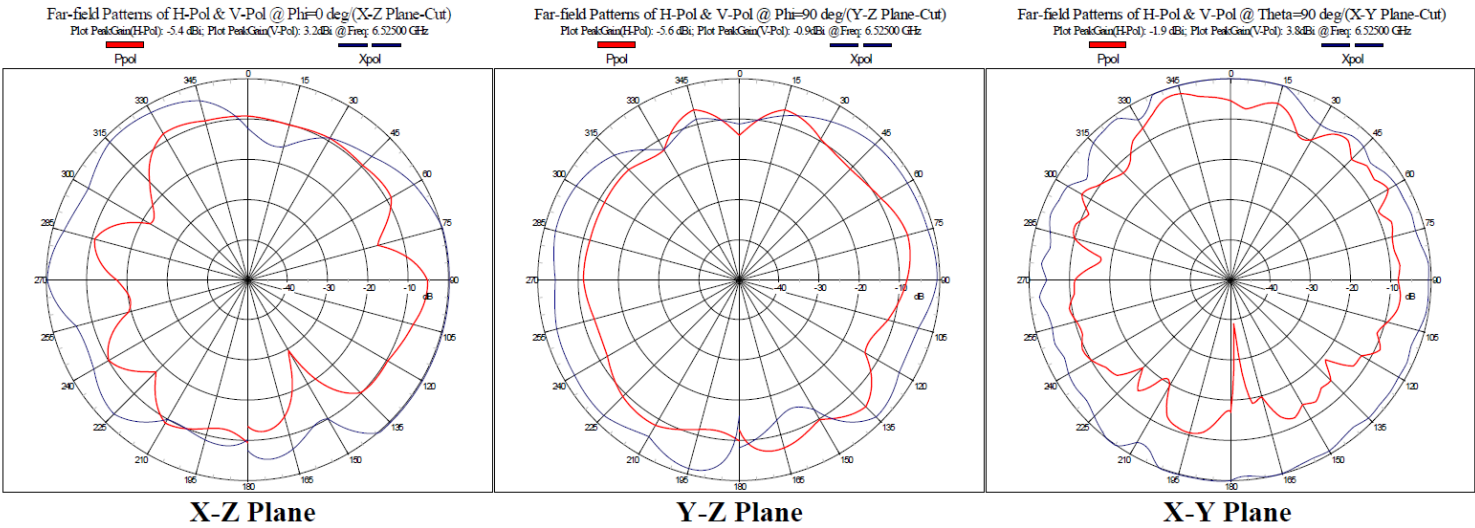
6425-6525MHz radiation characteristic

Main antenna: 6425 MHz



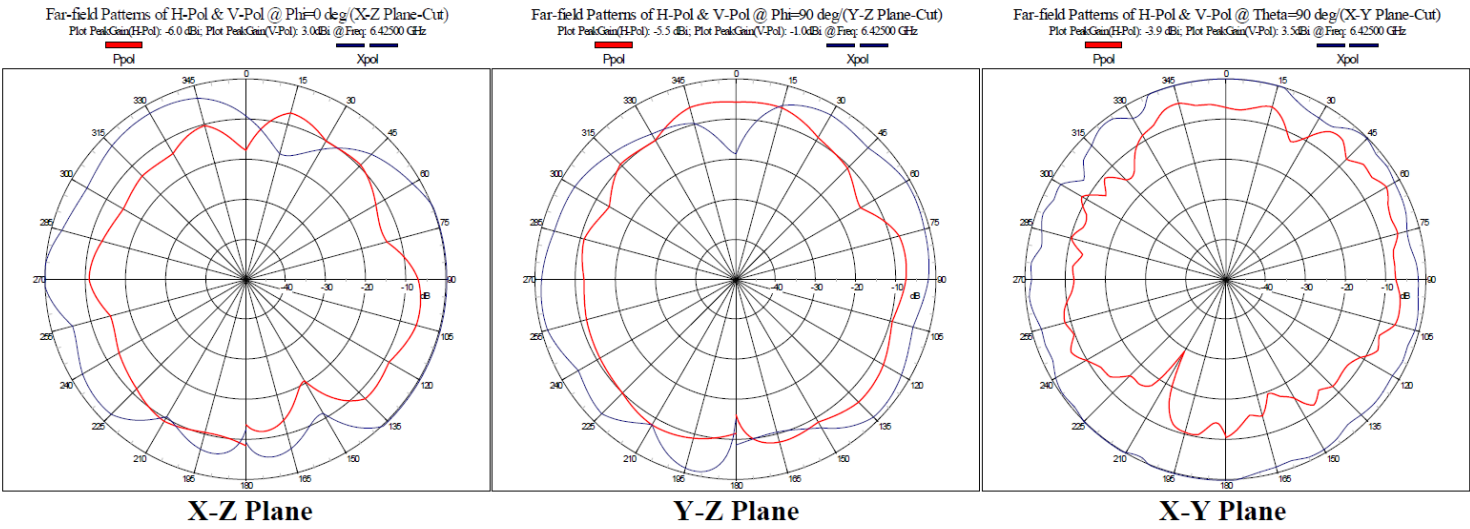
Center Frequency	6425 MHz
Three-dimensional (dBi) peak	2.9

Main antenna: 6525 MHz



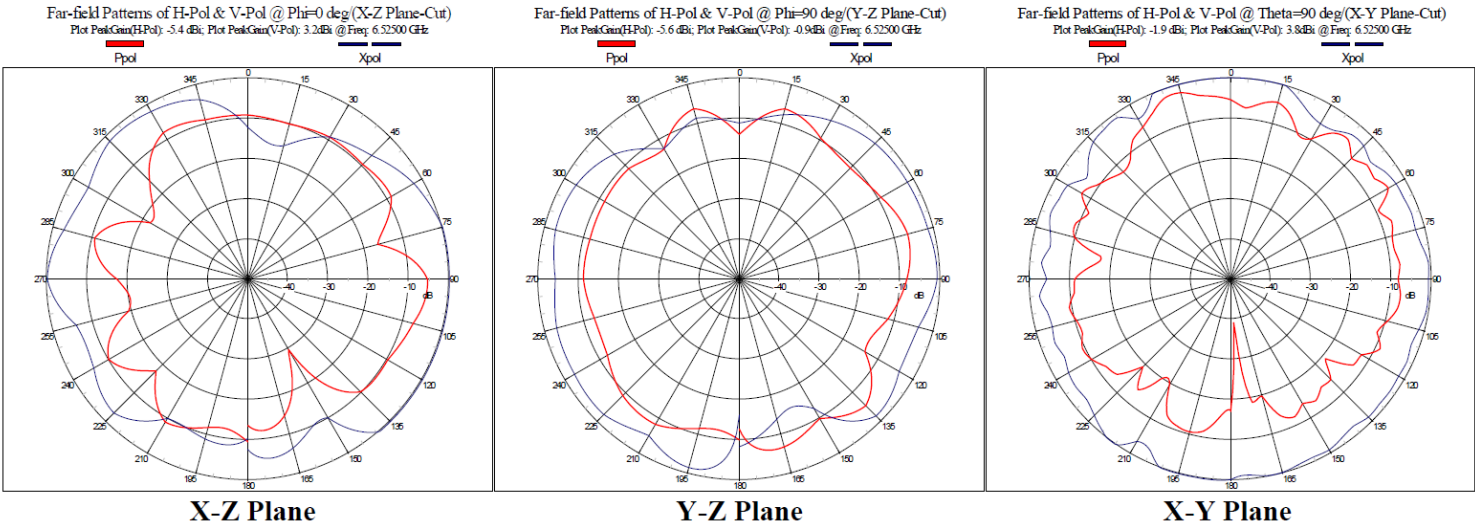
Center Frequency	6525 MHz
Three-dimensional (dBi) peak	2.8

Aux antenna: 6425 MHz



Center Frequency	6425 MHz
Three-dimensional (dBi) peak	2.9

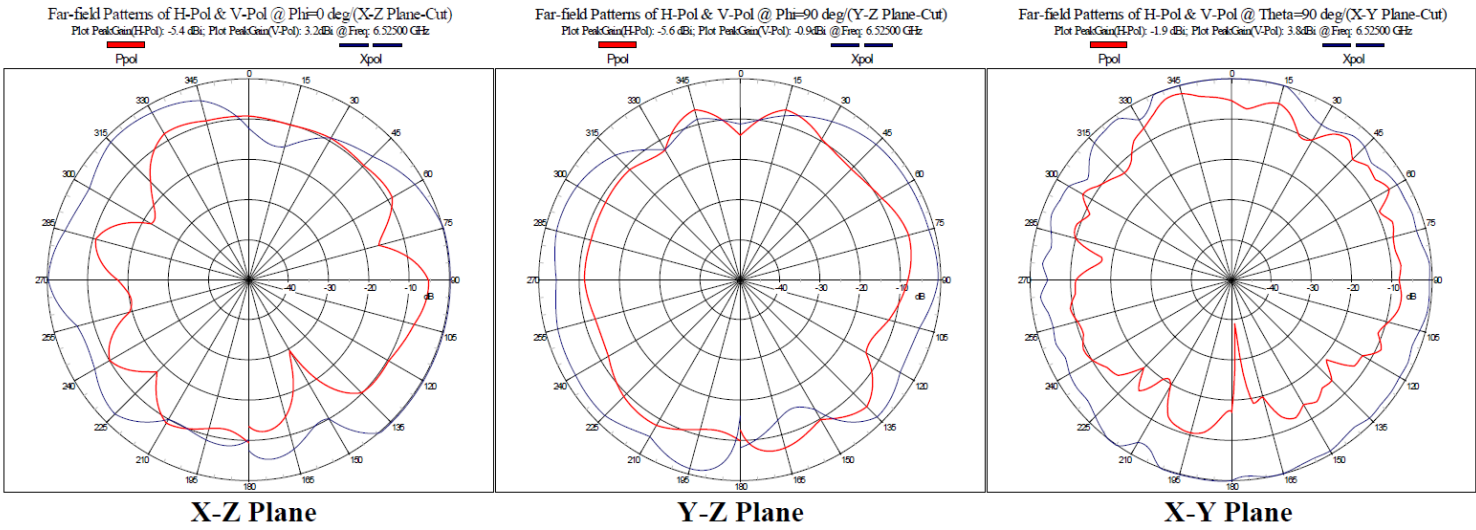
Aux antenna: 6525 MHz



Center Frequency	6525 MHz
Three-dimensional (dBi) peak	2.8

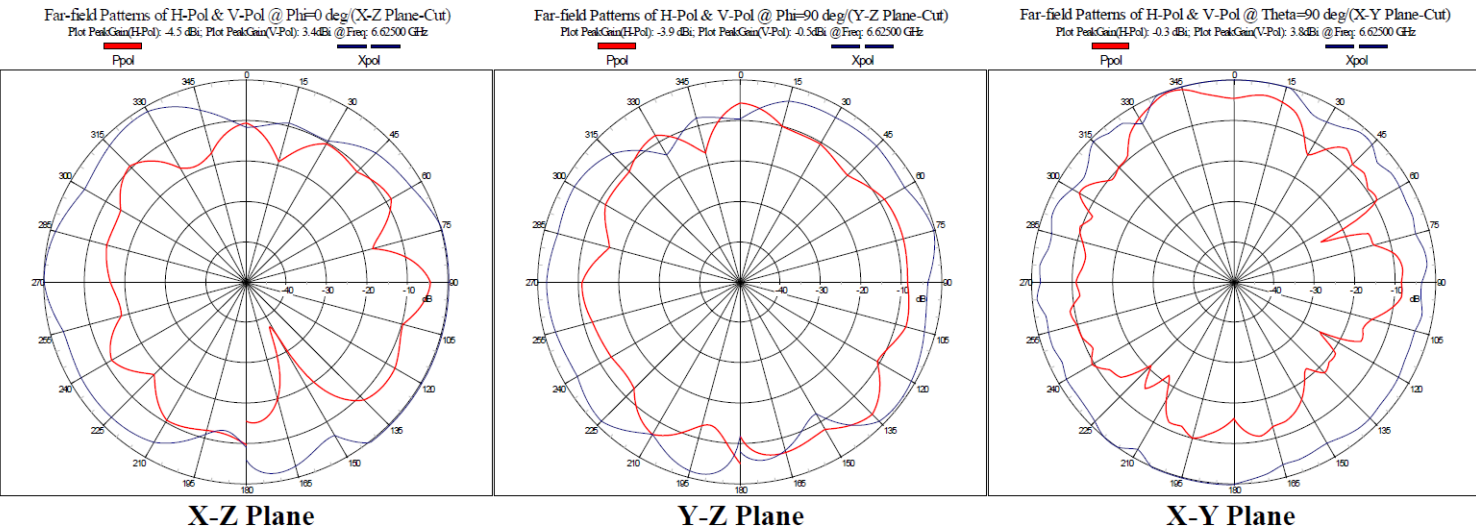
6525-6875MHz radiation characteristic

Main antenna: 6525 MHz



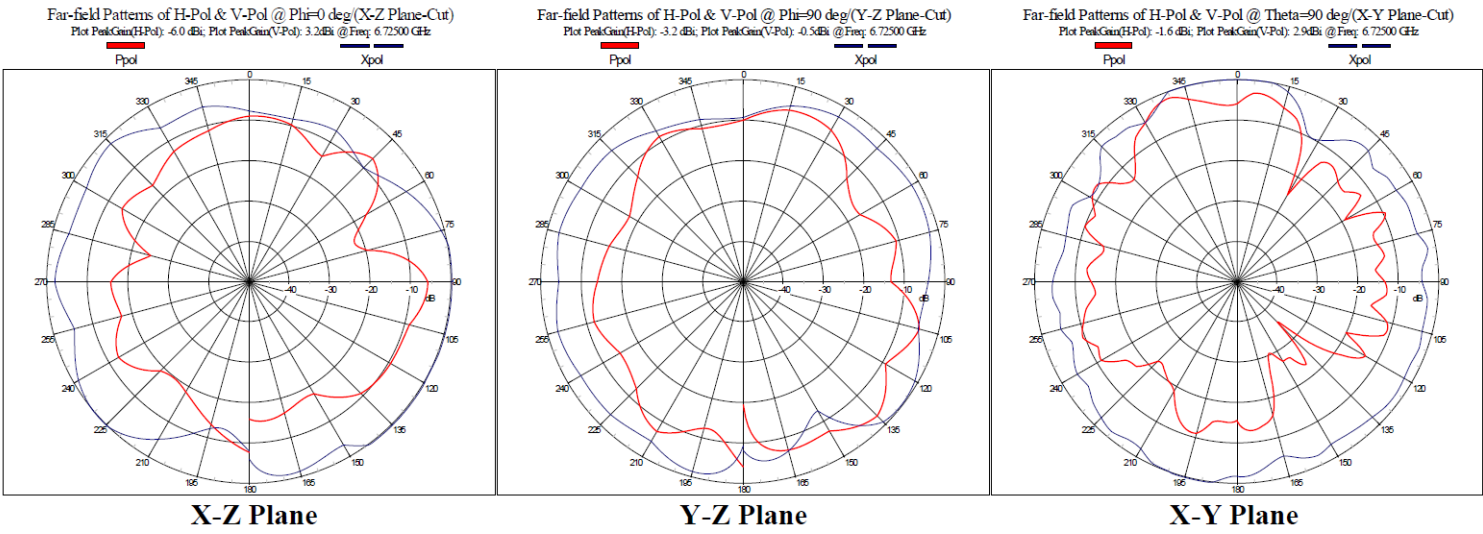
Center Frequency	6525 MHz
Three-dimensional (dBi) peak	2.8

Main antenna: 6625 MHz



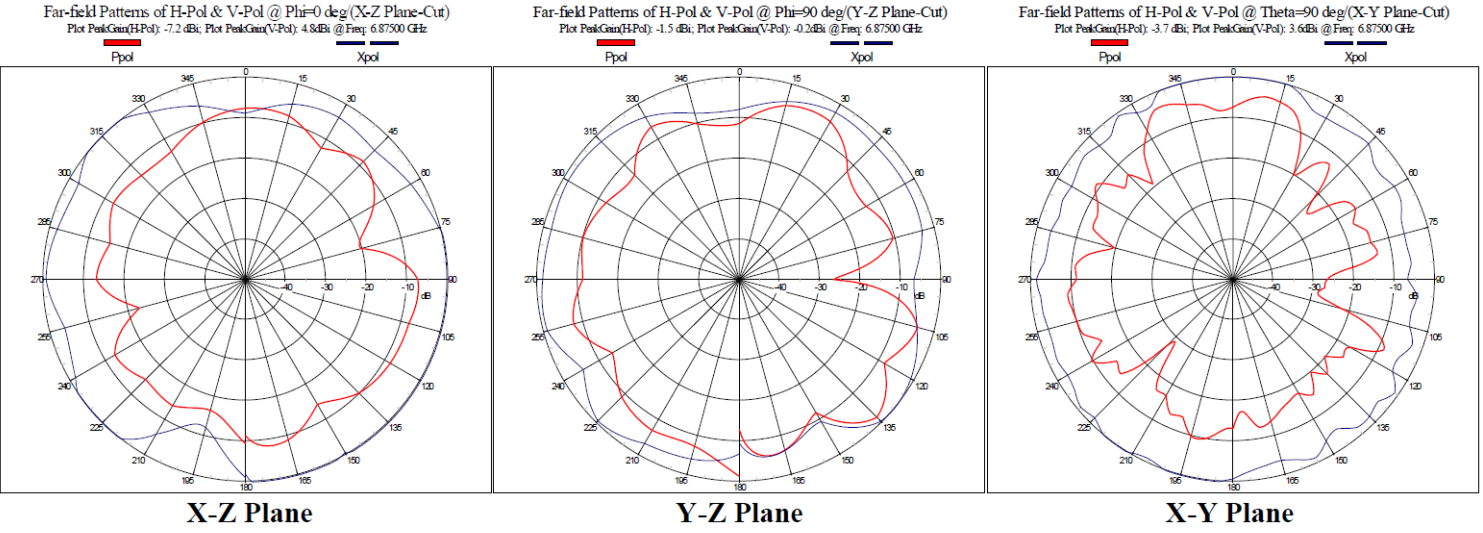
Center Frequency	6625 MHz
Three-dimensional (dBi) peak	2.7

Main antenna: 6725 MHz



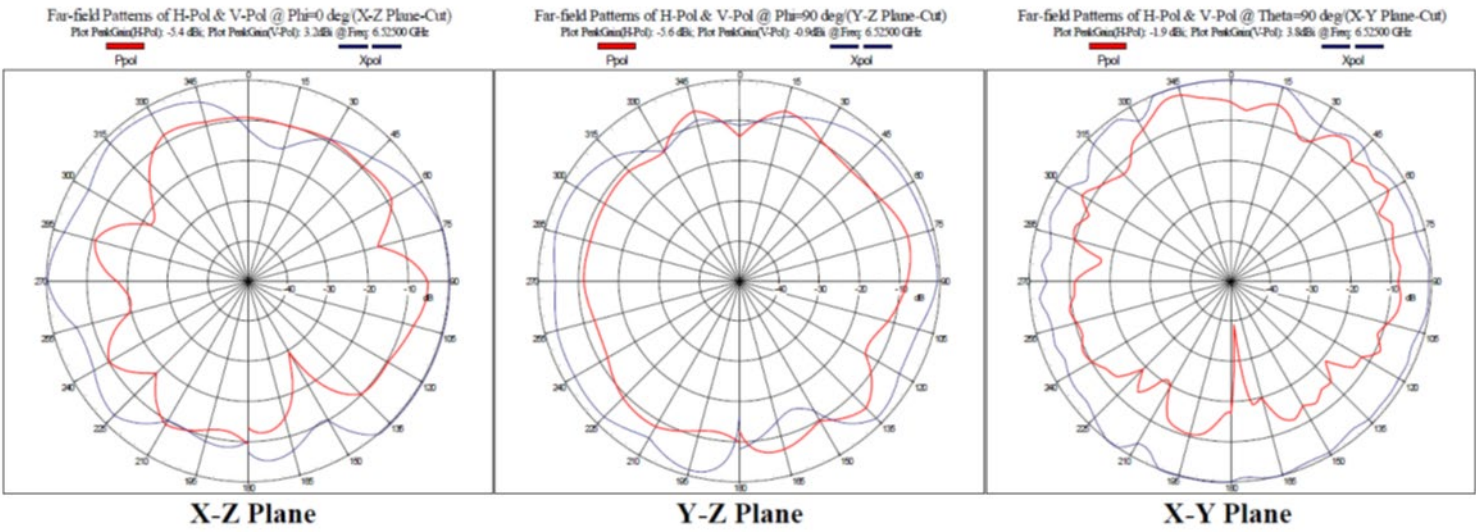
Center Frequency	6725 MHz
Three-dimensional (dBi) peak	2.9

Main antenna: 6875 MHz



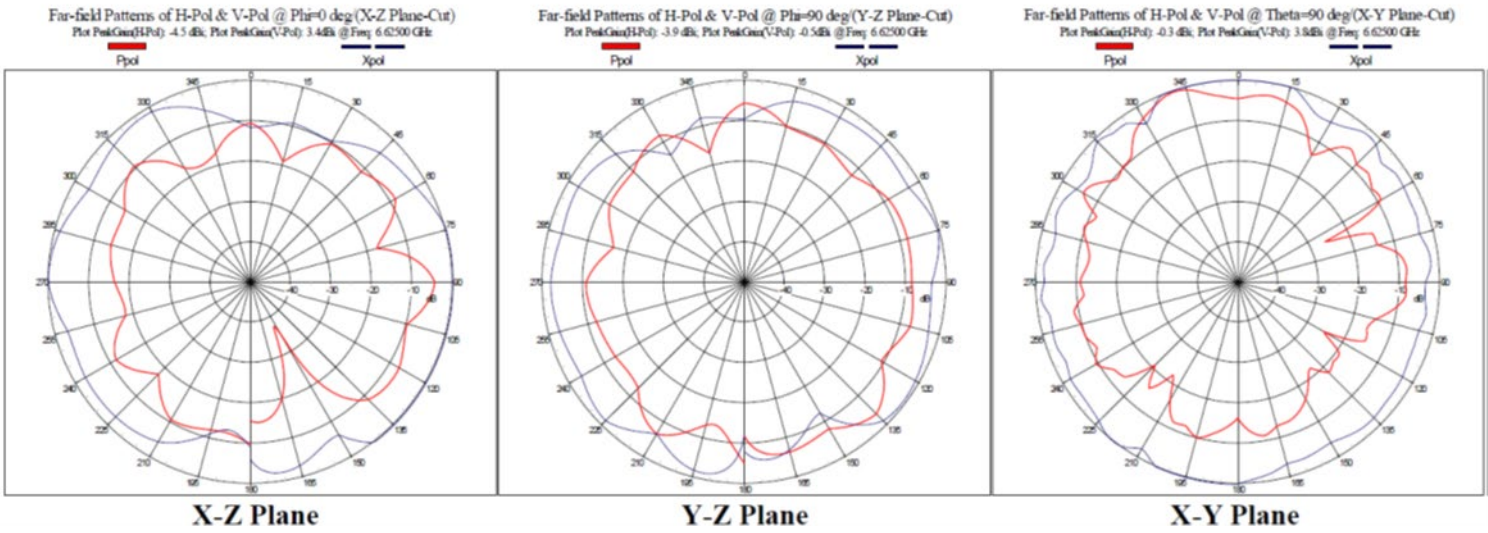
Center Frequency	6875 MHz
Three-dimensional (dBi) peak	2.6

Aux antenna: 6525 MHz



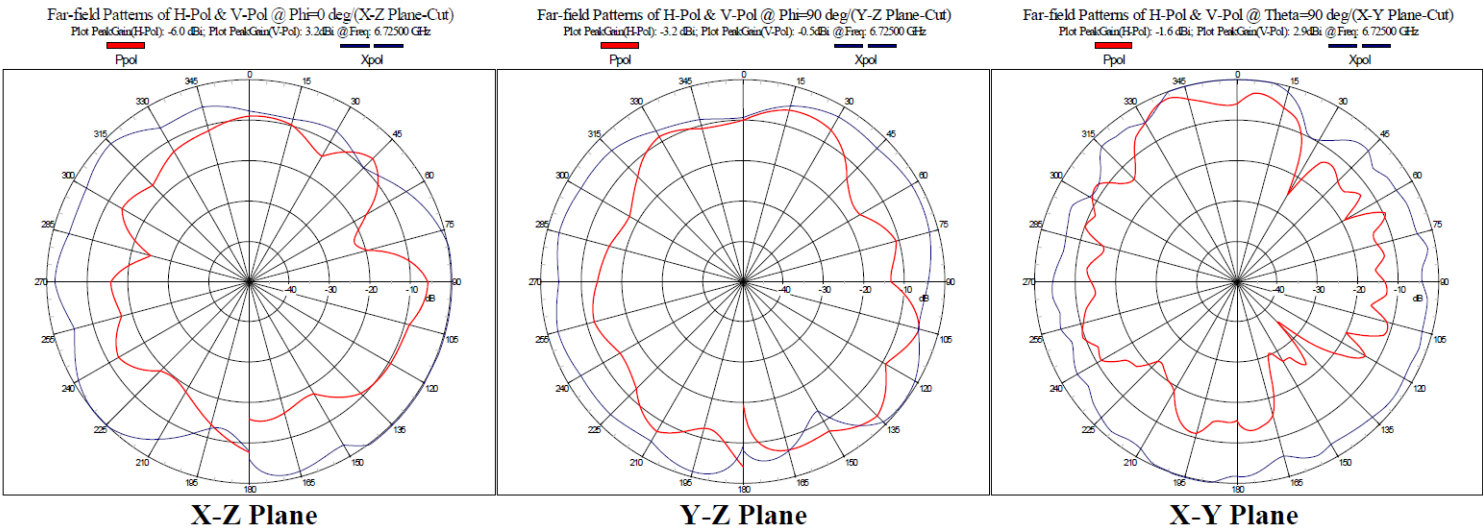
Center Frequency	6525 MHz
Three-dimensional (dBi) peak	2.8

Aux antenna: 6625 MHz



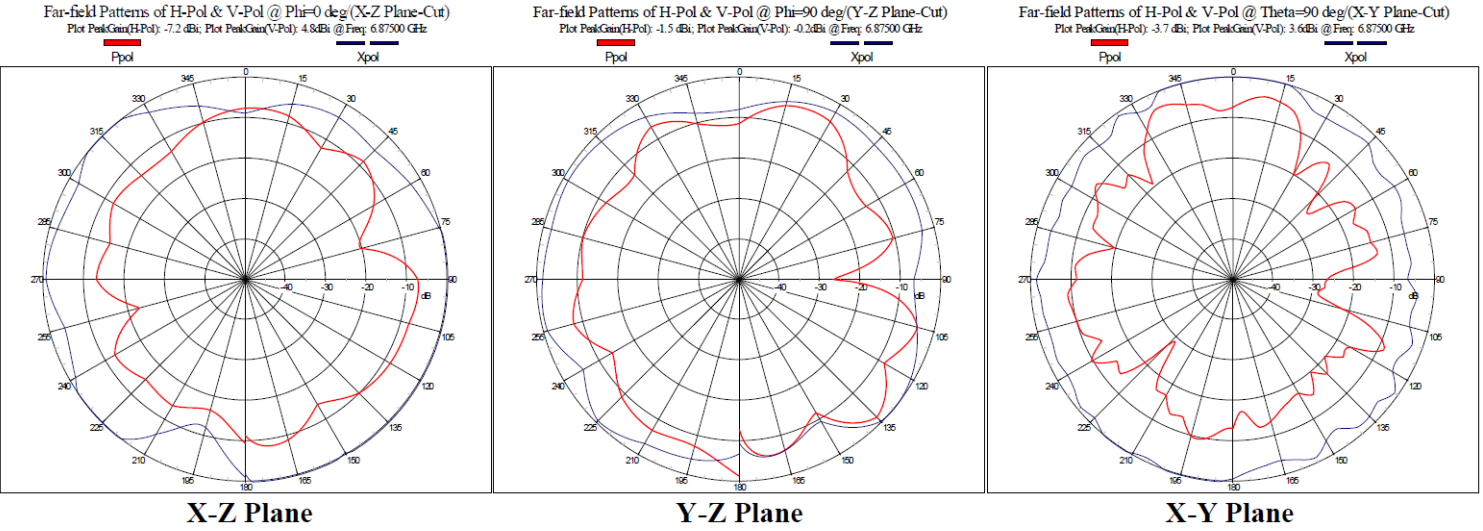
Center Frequency	6625 MHz
Three-dimensional (dBi) peak	2.7

Aux antenna: 6725 MHz



Center Frequency	6725 MHz
Three-dimensional (dBi) peak	2.9

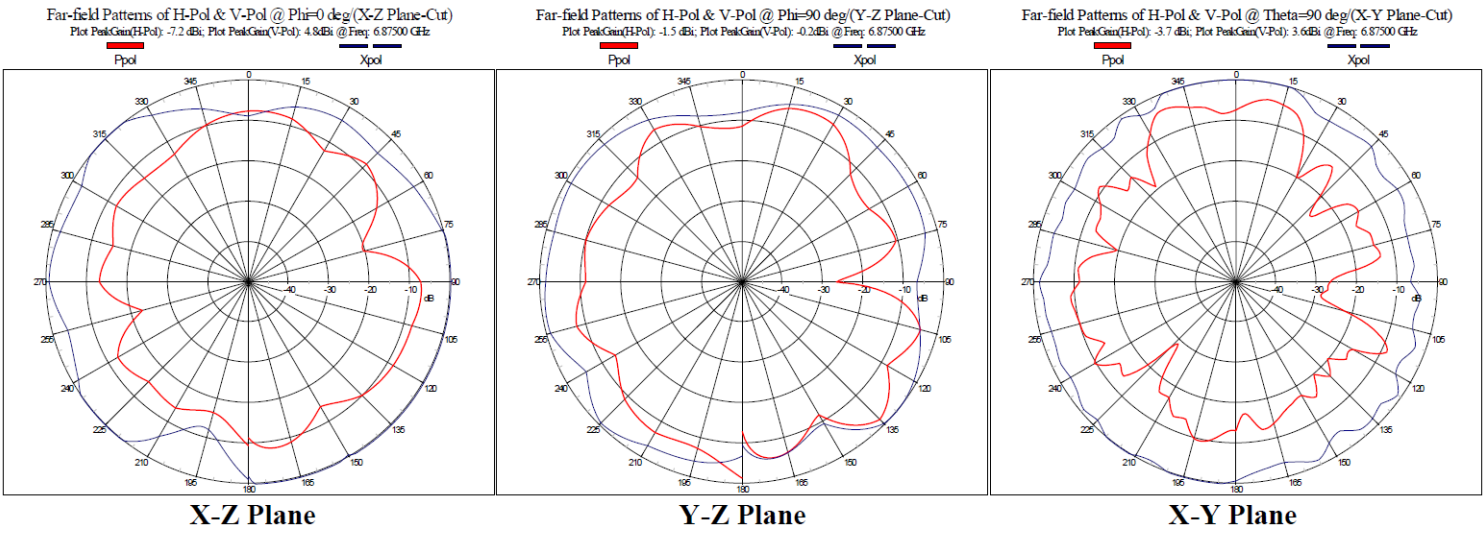
Aux antenna: 6875 MHz



Center Frequency	6875 MHz
Three-dimensional (dBi) peak	2.6

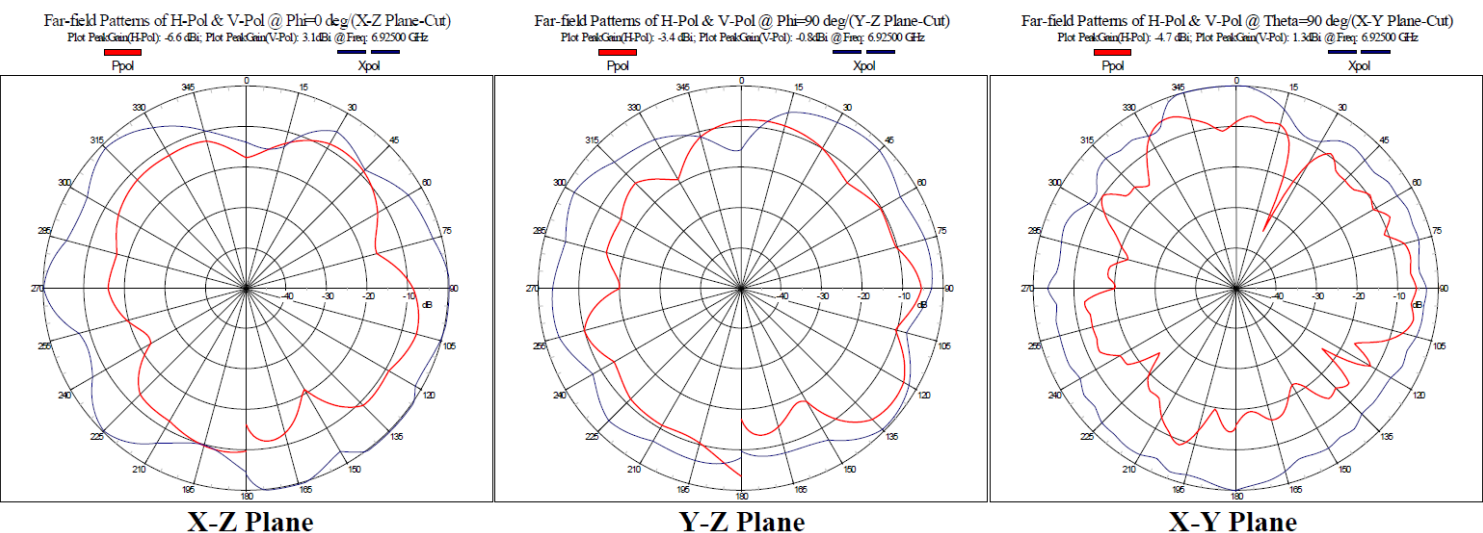
6875-7125MHz radiation characteristic

Main antenna: 6875 MHz



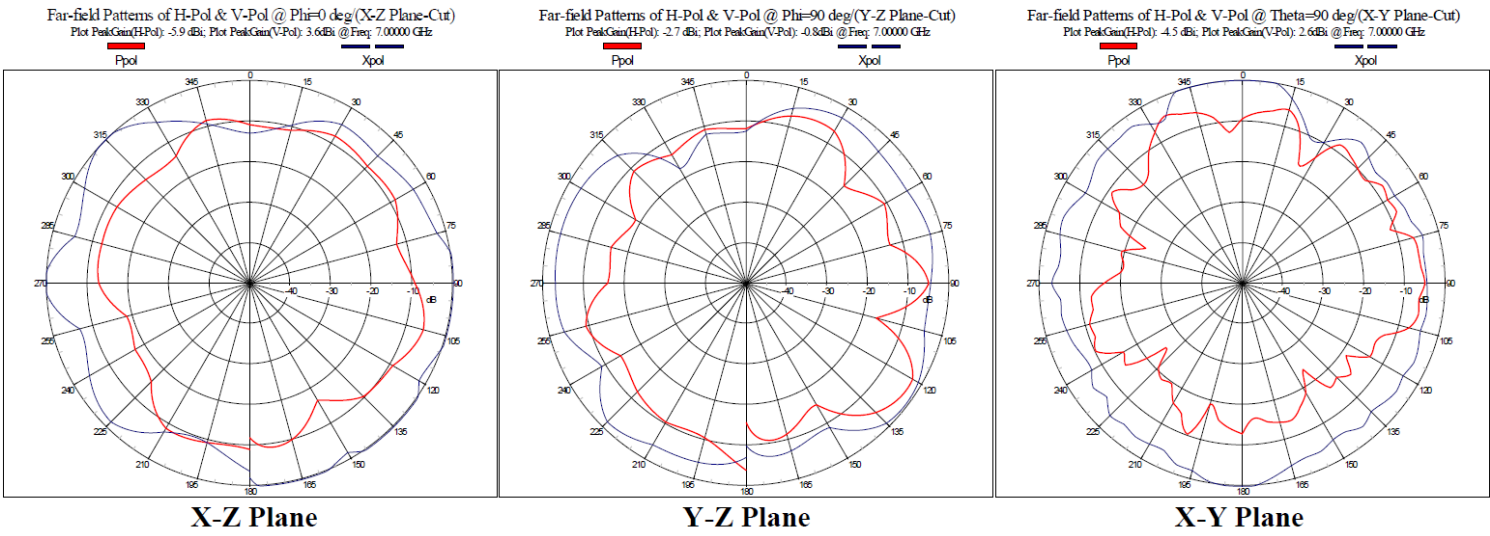
Center Frequency	6875 MHz
Three-dimensional (dBi) peak	2.6

Main antenna: 6925 MHz



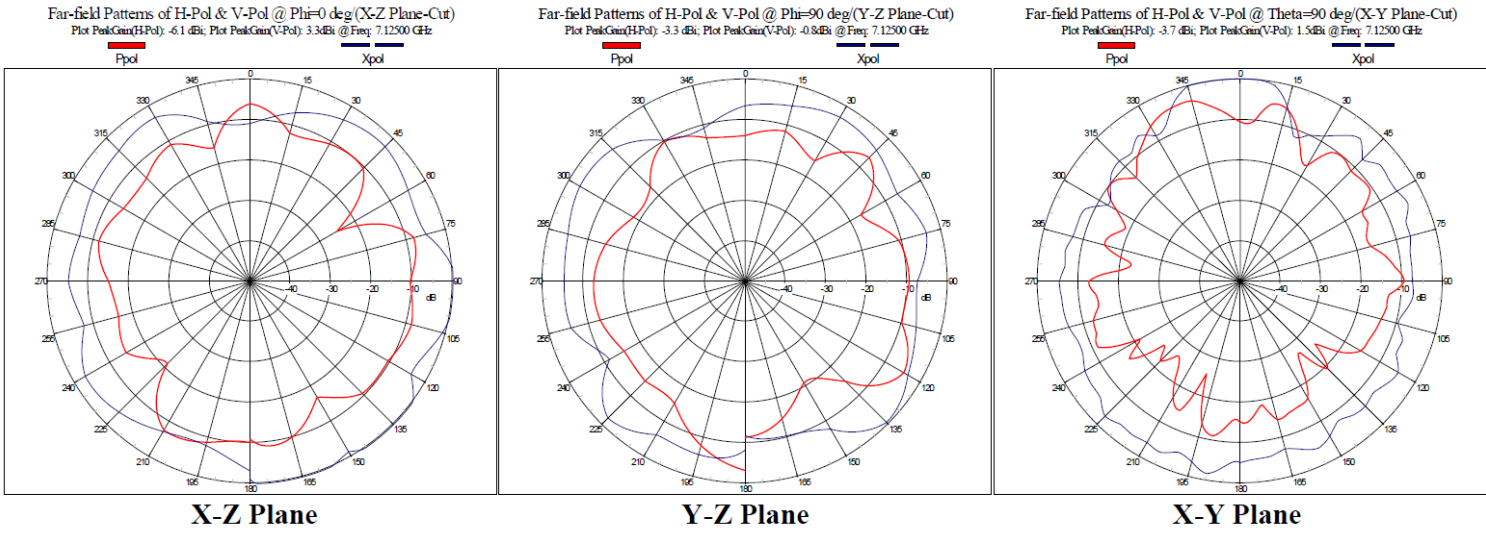
Center Frequency	6925 MHz
Three-dimensional (dBi) peak	2.2

Main antenna: 7000 MHz



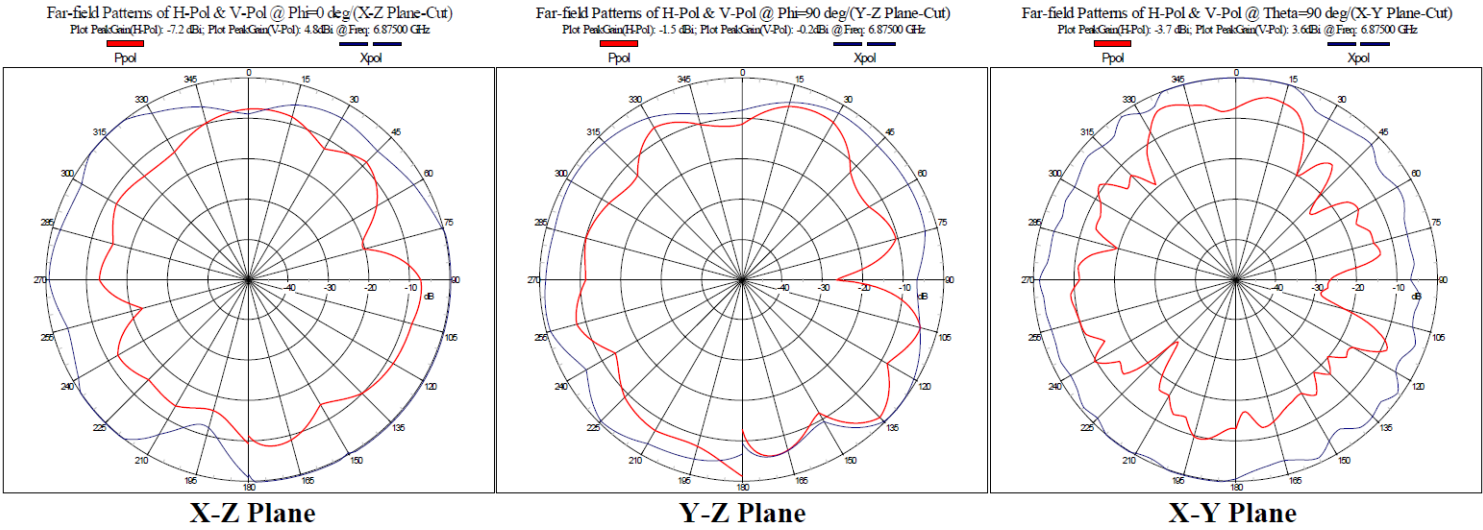
Center Frequency	7000 MHz
Three-dimensional (dBi) peak	2.3

Main antenna: 7125 MHz



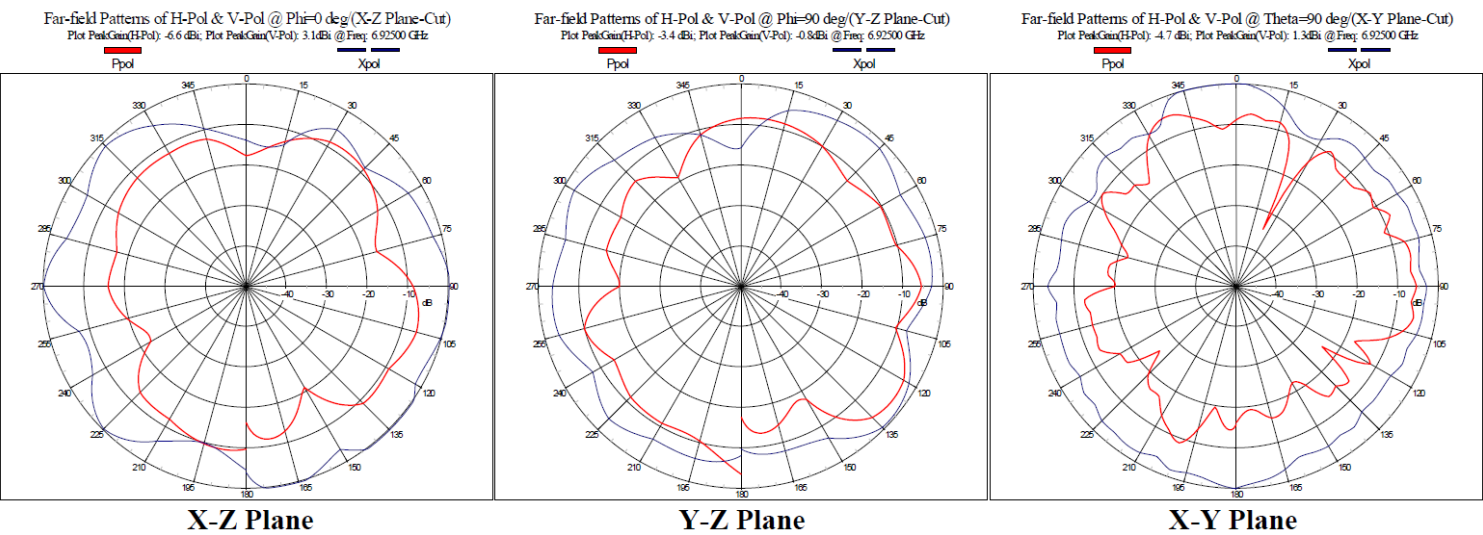
Center Frequency	7125 MHz
Three-dimensional (dBi) peak	2.1

Aux antenna: 6875 MHz



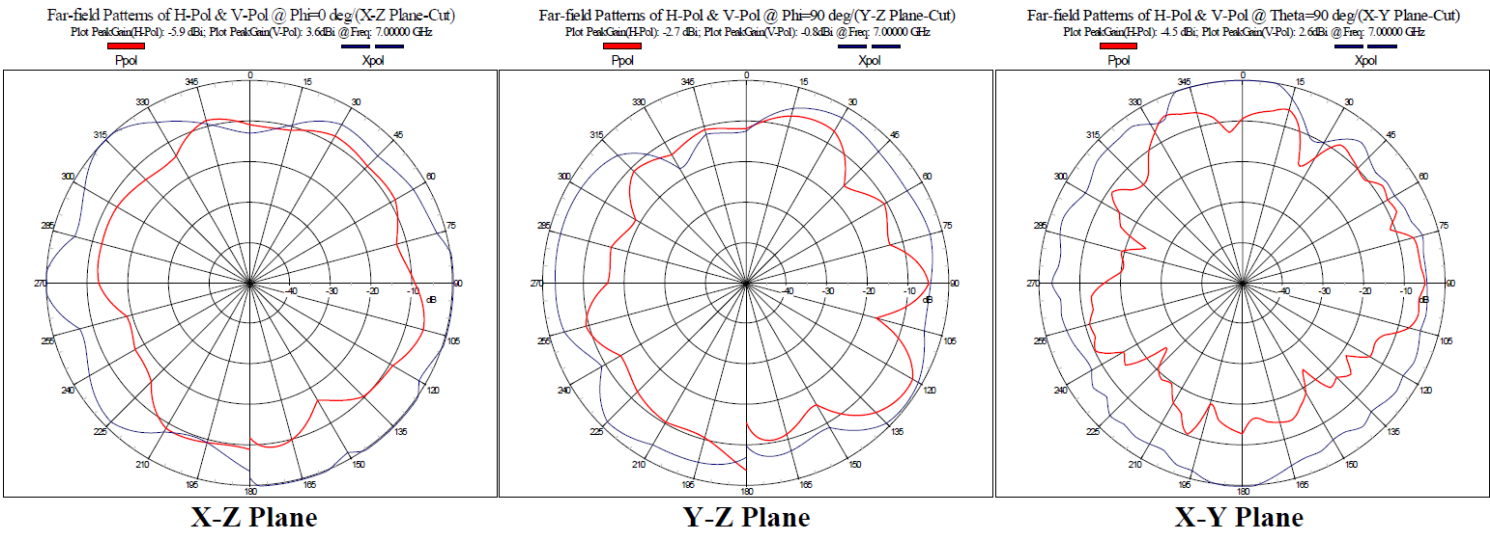
Center Frequency	6875 MHz
Three-dimensional (dBi) peak	2.6

Aux antenna: 6925 MHz



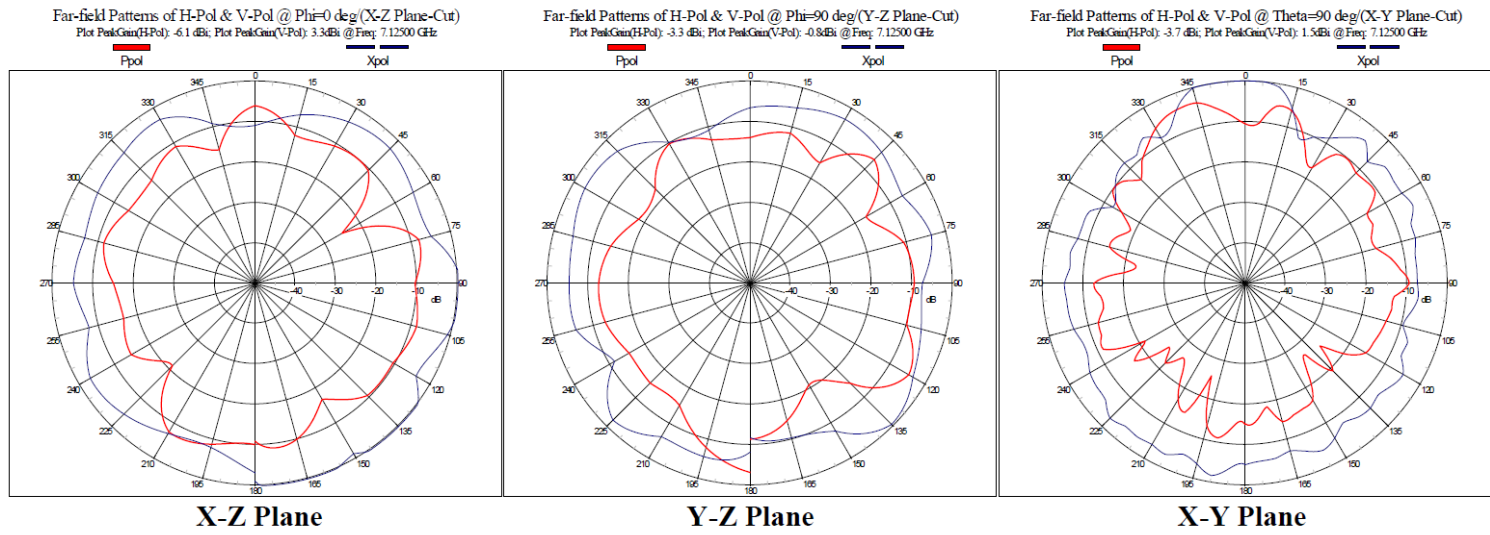
Center Frequency	6925 MHz
Three-dimensional (dBi) peak	2.2

Aux antenna: 7000 MHz



Center Frequency	7000 MHz
Three-dimensional (dBi) peak	2.3

Aux antenna: 7125 MHz

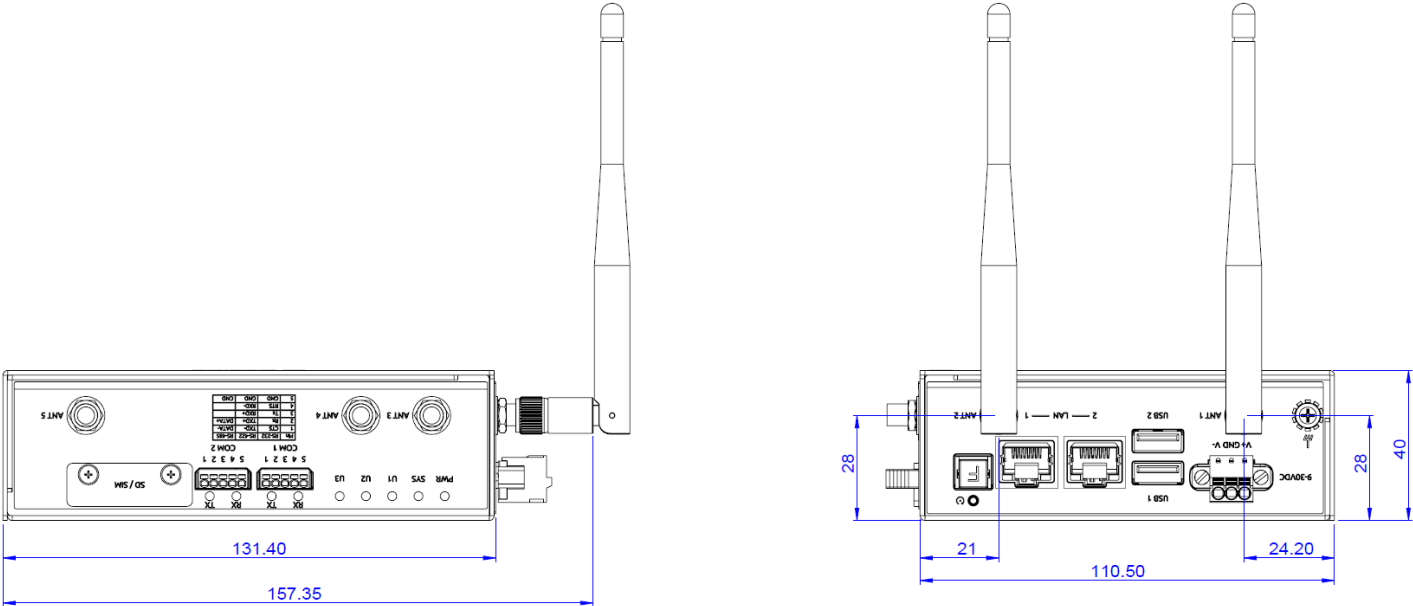


Center Frequency	7125 MHz
Three-dimensional (dBi) peak	2.1

Section 4. Antenna Host Platform Location Information

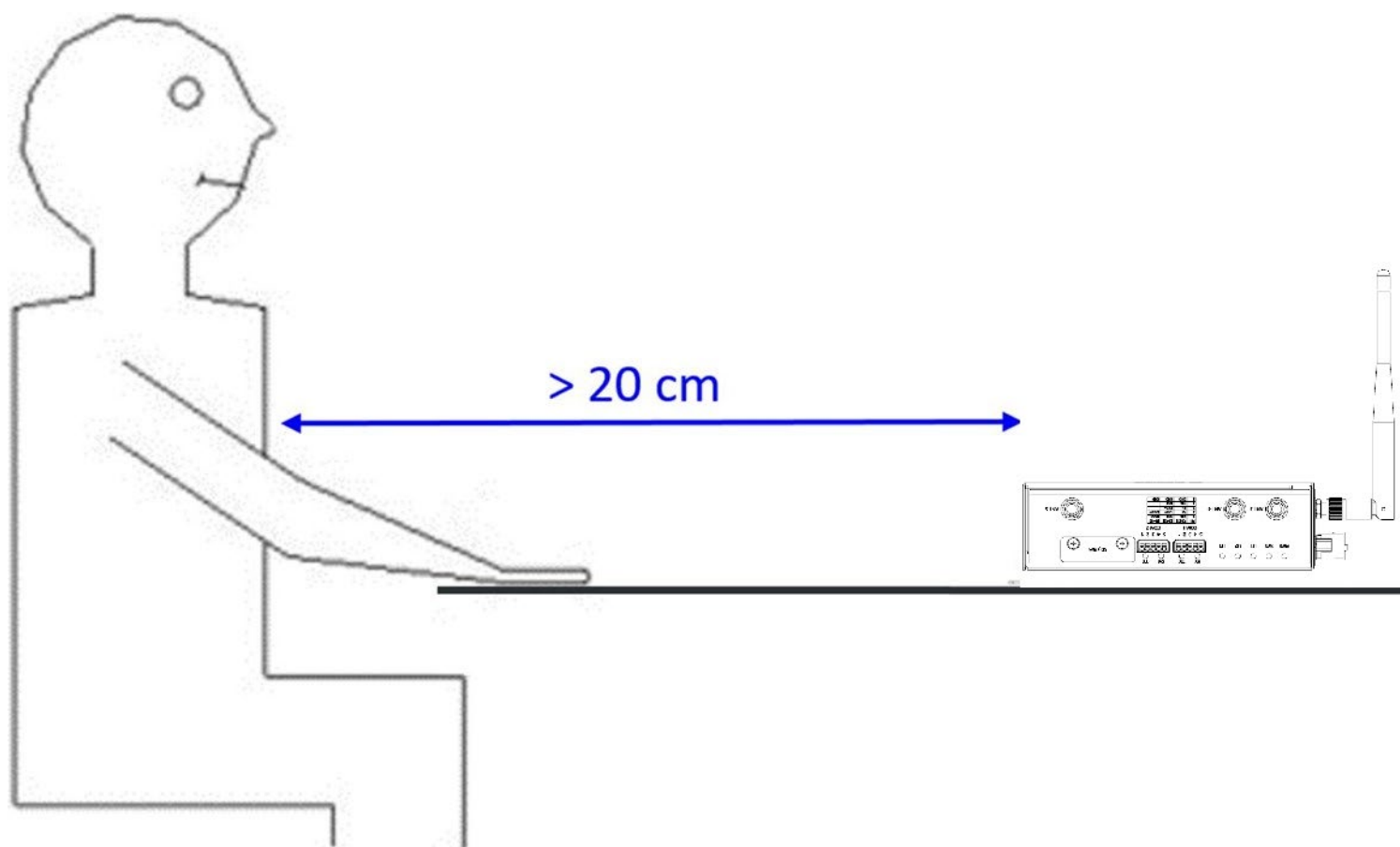
Include a **dimensioned photo(s) or dimensioned drawing(s)** of Main and Aux antenna placements (measurements are not required for receive-only antenna).

Any antenna that transmits must show dimensions to bottom of laptop. Provide a description of the materials that are used for supporting or surrounding transmit antennas; for example, non-conductive plastics vs. conductive coated plastic or metallic materials.



Section 5. Antenna dimensional information for SAR evaluation

Include a **dimensioned photo(s) or dimensioned drawing(s)** showing the distance (mm) between the transmit antennas and the user. For notebook/laptop hosts show lapheld position (example below). For tablet hosts show all orientations including lapheld, primary & secondary portrait, primary & secondary landscape positions. Include a description of any proximity sensors or power throttling implementations that limit or exclude use of any host orientation.



Section 6. Diagram Example of Co-Location Antenna Separation

Include a **dimensioned photo or dimensioned drawing** showing the distance (mm) between all WLAN transmit antennas and other co-located radiator transmit antenna such as Bluetooth, WWAN,..

(Note: Due to the evolving rules regarding co-location, each platform will need to be reviewed on a case by case basis)

