

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)

| Platform information | | | | | | | | | | |
|--|---------------------------|---|---------------------------------------|--|------------------------------|------------------------|----------------------------------|------------------------|------------------------|-------------------------|
| Brand | ODM | RMN | Intel platform (ex: Yes, No or NA) | Platform type (ex: regular NB, convertible PC, AIO...etc) | *SAR minimum separation (mm) | | | | | |
| HP Inc. | Compal | TPN-C181 | NA | Convertible PC | 5.96mm | | | | | |
| *****Please fill in exact product model name and make sure the model name is visible on product cover or any parts for end users recognize for authority inspection. | | | | | | | | | | |
| Antenna information | | | | | | | | | | |
| Vendor | | Type | Antenna Part number (Main/Tx2) | | | | Antenna Part number (Aux/Tx1) | | | |
| High-Tek Electronics Co., Ltd | | PIFA | 0ACCN024005N (DC33002YV00) | | | | 0ACCN024005N (DC33002YV00) | | | |
| 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 | 5.9GHz 5850-5895MHz | 6.2GHz 5925-6425MHz | 6.5GHz 6425-6525MHz | 6.7GHz 6525-6875MHz | 7.0 GHz 6875-7125MHz |
| Main | -0.01 | -1.12 | -1.17 | 0.56 | 0.25 | -0.68 | -0.01 | 0.75 | 2.81 | 0.75 |
| Aux | 1.90 | -0.40 | -0.51 | -0.13 | -1.01 | -1.01 | 0.28 | -0.52 | 1.67 | 0.95 |
| Module Information | | | | | | | | | | |
| Model | | Form factor and suffixes | | | | | | | | |
| MT7921 | | WIFI6/BT COMBO MODULE 2*2 MT7921LSN, M.2 2230 KEY A-E | | | | | | | | |
| Antenna Vendor Address | | | | | | | | | | |
| | | | | | | | | | | |

Antenna Information

Section 1. Antenna Assembly Specifications

| 1A Antenna Part Number | 1B Manufacturer | 1C Antenna Type | 1D Cable Assembly Part Number and Information | Freq Range MHz | 1E * Peak Gain W/ Cable loss (dBi) | 1F Peak Gain w/o Cable Loss (dBi) | 1G Max VSWR | 1H Cable Loss (dB) |
|---|-------------------------------------|--------------------|---|-------------------|---|--|----------------|--------------------------|
| P/N: 0ACCN024005N (DC33002YV00) Main Antenna (TX2) | High-Tek Electronics Co., Ltd | PIFA | (P/N: MHF-B13L-N-01) 50 ohm Coaxial length: 382cm diameter: 1.13mm | 2400-2495 | -0.01 | 1.15 | 3 | 1.16 |
| | | | | 5150-5250 | -1.12 | 0.52 | 3 | 1.64 |
| | | | | 5250-5350 | -1.17 | 0.48 | 3 | 1.65 |
| | | | | 5470-5725 | 0.56 | 2.51 | 3 | 1.95 |
| | | | | 5725-5850 | 0.25 | 2.23 | 3 | 1.98 |
| | | | | 5850-5895 | -0.68 | 1.31 | 3 | 1.99 |
| | | | | 5925-6425 | -0.01 | 2.05 | 3 | 2.06 |
| | | | | 6425-6525 | 0.75 | 2.84 | 3 | 2.09 |
| | | | | 6525-6875 | 2.81 | 4.95 | 3 | 2.14 |
| 6875-7125 | 0.75 | 3.01 | 3 | 2.26 | | | | |
| P/N: 0ACCN024005N (DC33002YV00) Aux Antenna (TX1) | High-Tek Electronics Co., Ltd | PIFA | (P/N: MHF-B13L-N-01) 50 ohm Coaxial length: 542cm diameter: 1.13mm | 2400-2495 | 1.90 | 3.54 | 3 | 1.64 |
| | | | | 5150-5250 | -0.40 | 1.93 | 3 | 2.33 |
| | | | | 5250-5350 | -0.51 | 1.83 | 3 | 2.34 |
| | | | | 5470-5725 | -0.13 | 2.38 | 3 | 2.51 |
| | | | | 5725-5850 | -1.01 | 1.53 | 3 | 2.54 |
| | | | | 5850-5895 | -1.01 | 1.55 | 3 | 2.56 |
| | | | | 5925-6425 | 0.28 | 2.93 | 3 | 2.65 |
| | | | | 6425-6525 | -0.52 | 2.16 | 3 | 2.68 |
| | | | | 6525-6875 | 1.67 | 4.42 | 3 | 2.75 |
| 6875-7125 | 0.95 | 3.85 | 3 | 2.90 | | | | |

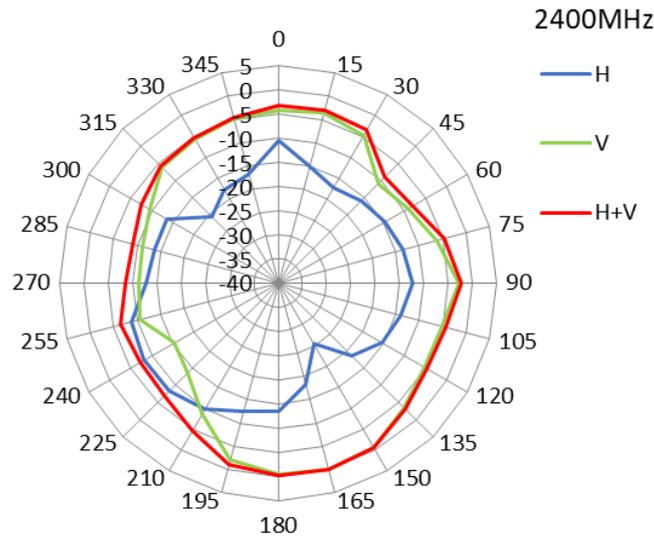
Note: antenna photo should include L type ruler

Section 3. Radiation characteristics of antenna loaded in Host Platform

Main Antenna

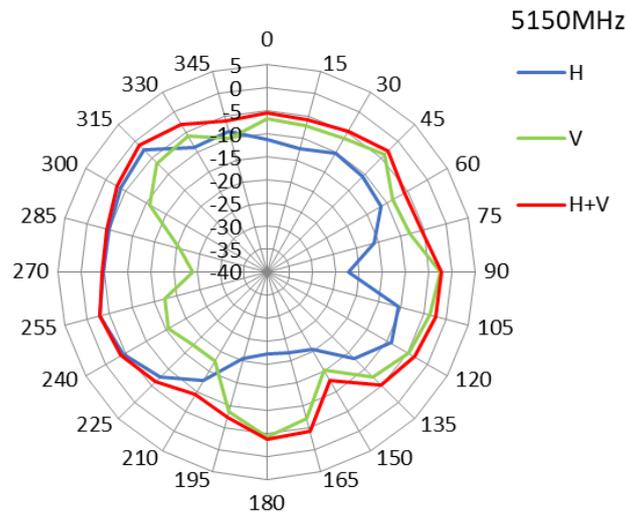
Max Antenna 2D Radiation Pattern 2400 – 2495 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 2400-2495 | -0.01 |



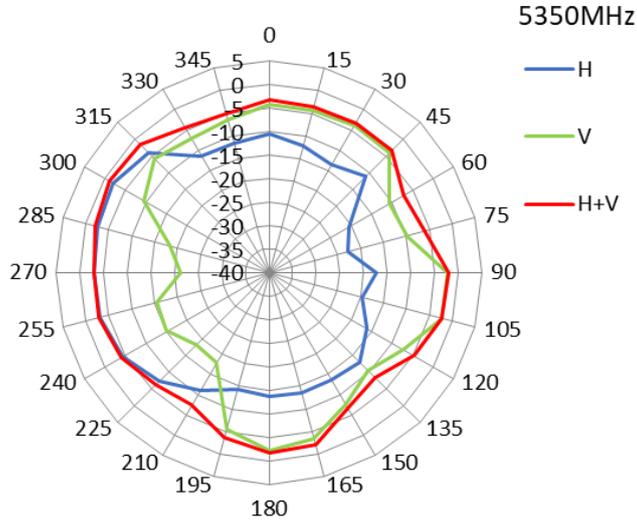
Max Antenna 2D Radiation Pattern 5150-5250 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5150-5250 | -1.12 |



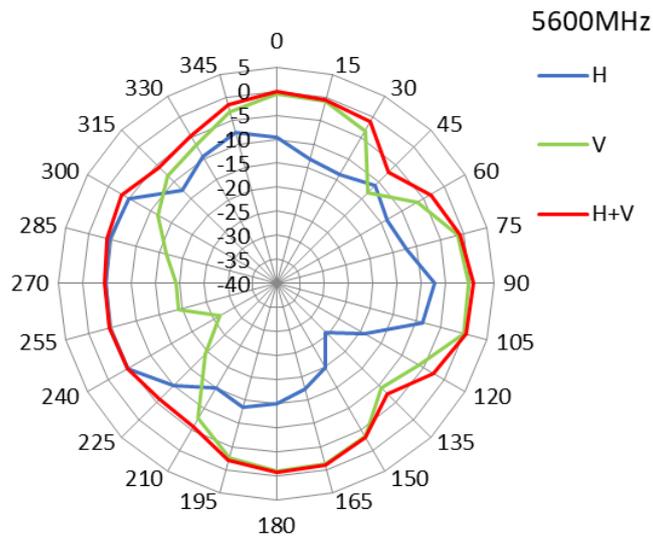
Max Antenna 2D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5250-5350 | -1.17 |



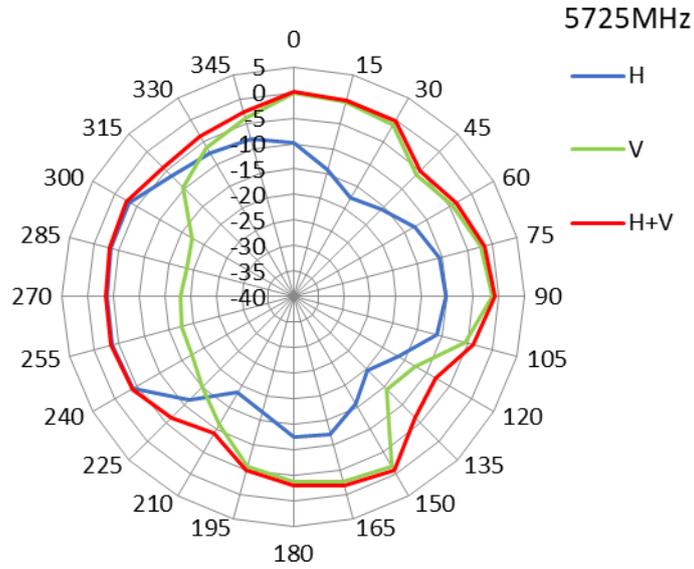
Max Antenna 2D Radiation Pattern 5470-5725 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5470-5725 | 0.56 |



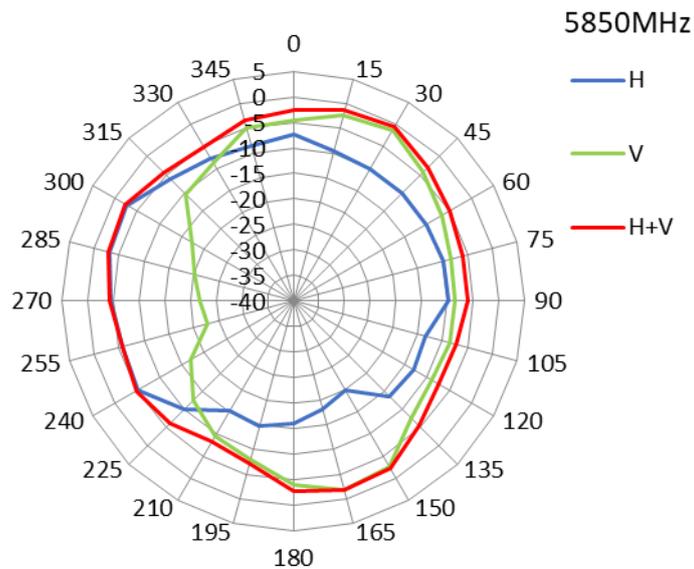
Max Antenna 2D Radiation Pattern 5725-5850 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5725-5850 | 0.25 |



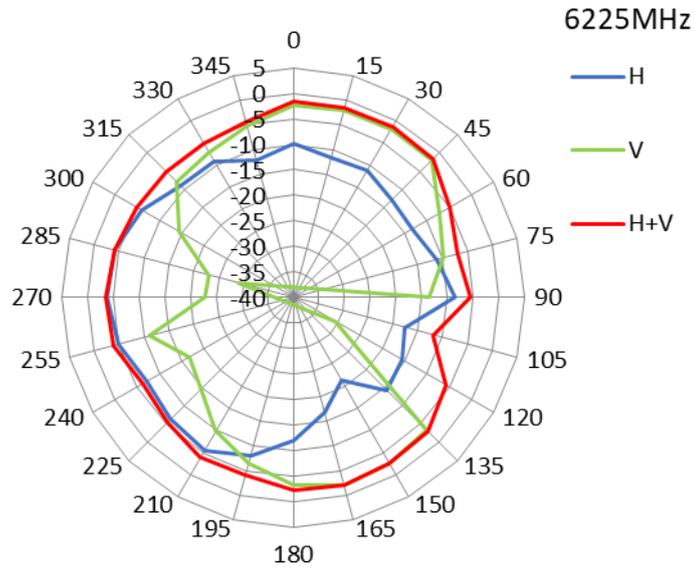
Max Antenna 2D Radiation Pattern 5850-5895 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5850-5895 | -0.68 |



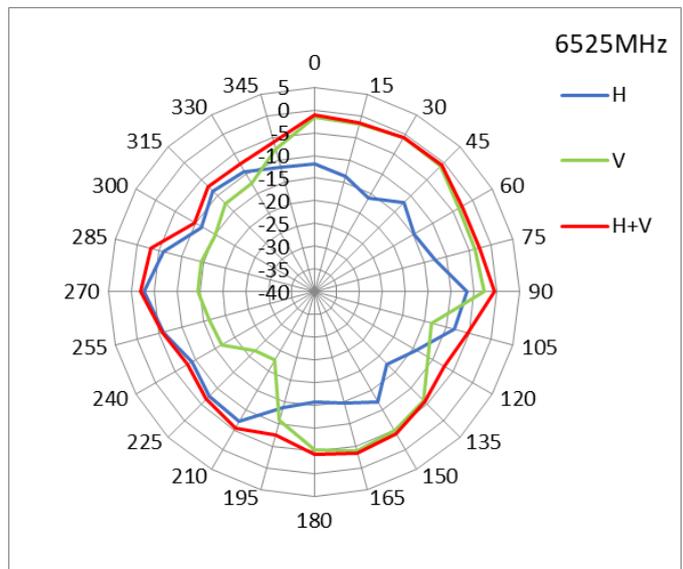
Max Antenna 2D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5925-6425 | -0.01 |



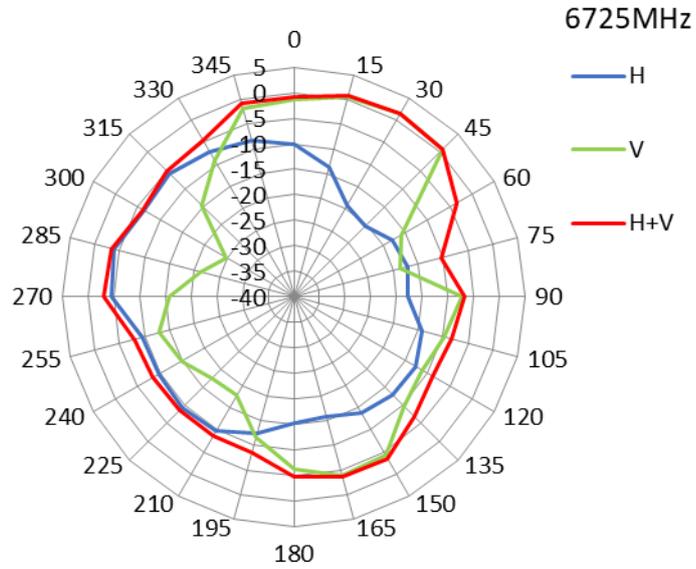
Max Antenna 2D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 6425-6525 | 0.75 |



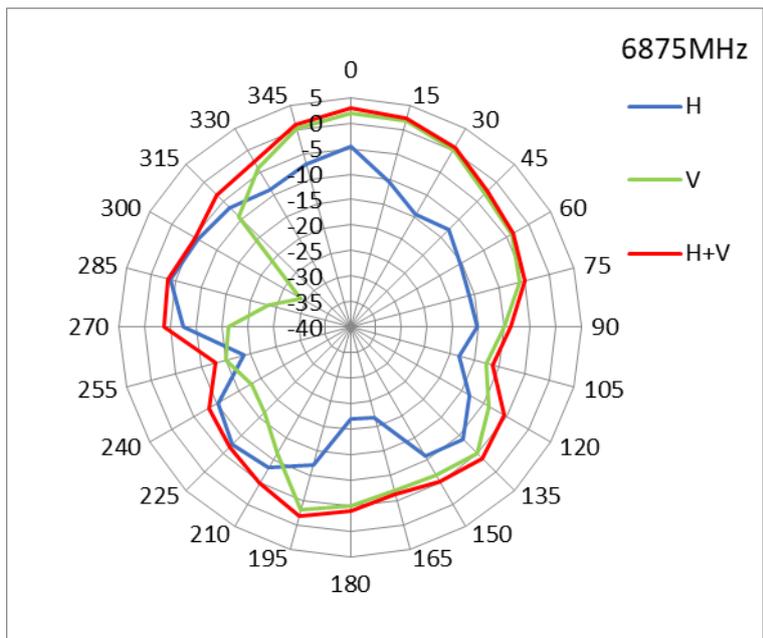
Max Antenna 2D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 6525-6875 | 2.81 |



Max Antenna 2D Radiation Pattern 6875-7125 MHz

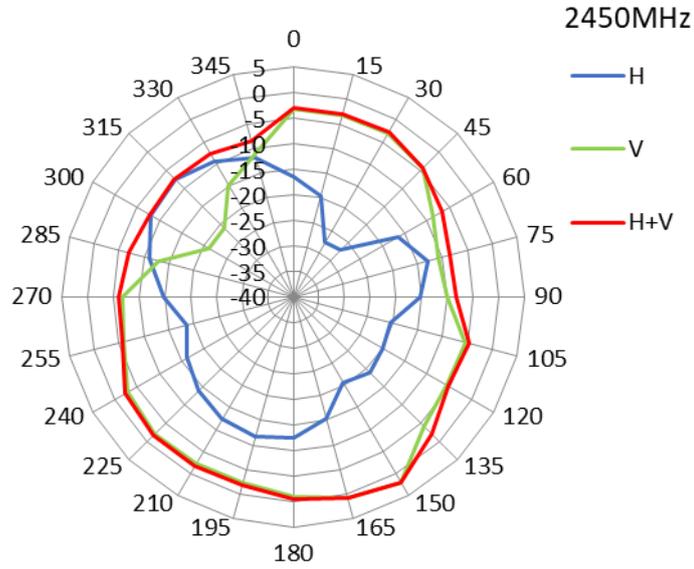
| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 6875-7125 | 0.75 |



Auxiliary Antenna

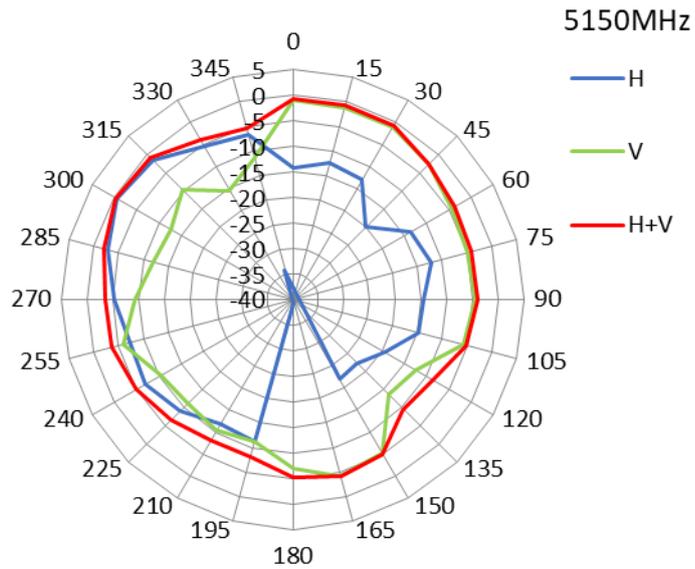
Max Antenna 2D Radiation Pattern 2400 – 2483.5 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 2400-2483.5 | 1.90 |



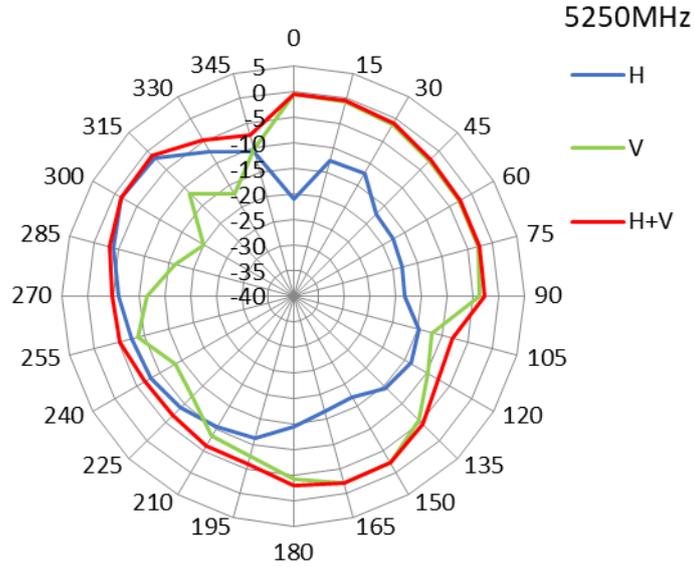
Max Antenna 2D Radiation Pattern 5150-5250 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5150-5250 | -0.40 |



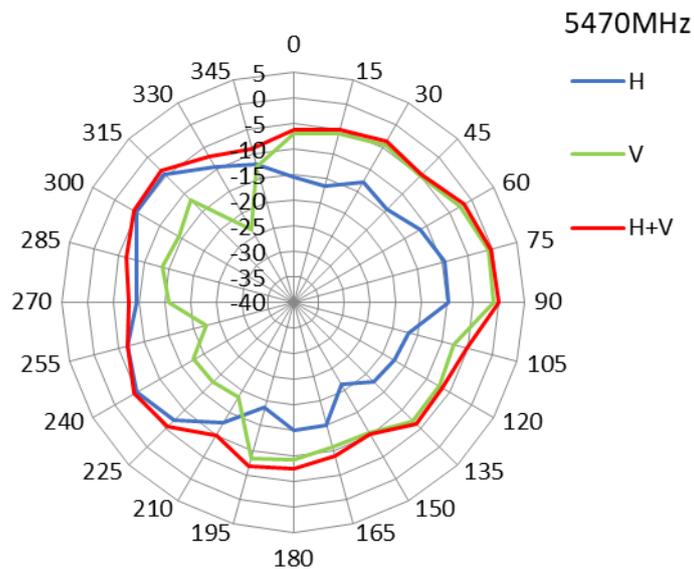
Max Antenna 2D Radiation Pattern 5250-5350 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5250-5350 | -0.51 |



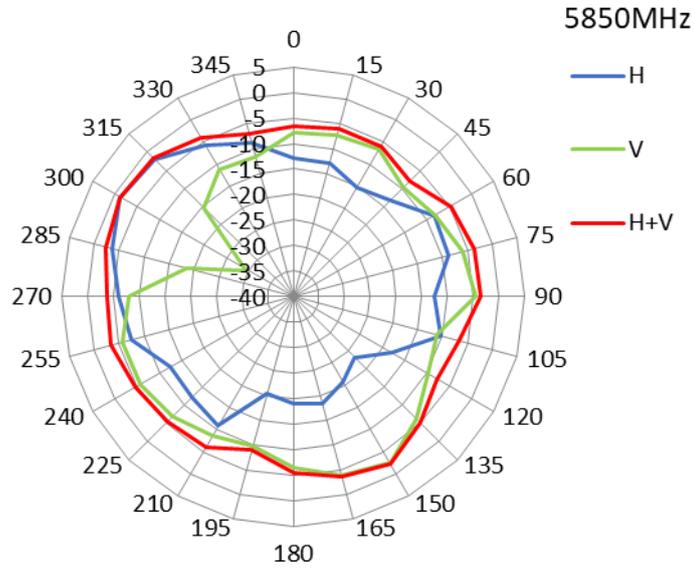
Max Antenna 2D Radiation Pattern 5470-5725 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5470-5725 | -0.13 |



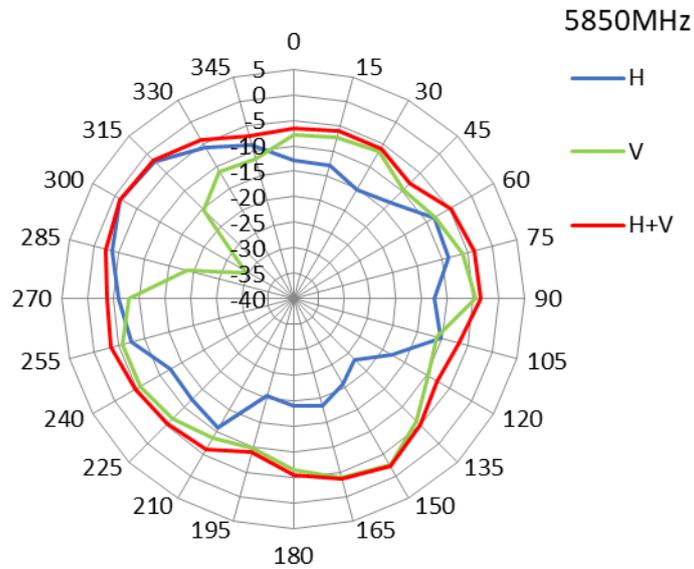
Max Antenna 2D Radiation Pattern 5725-5850 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5725-5850 | -1.01 |



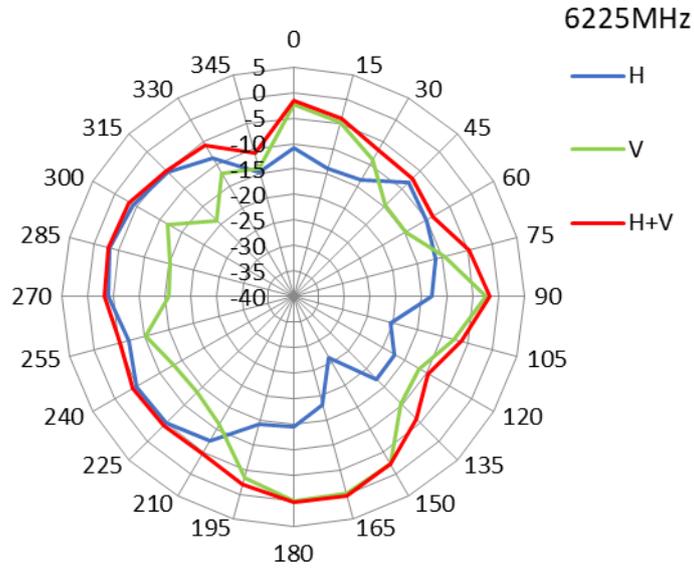
Max Antenna 2D Radiation Pattern 5850-5895 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5850-5895 | -1.01 |



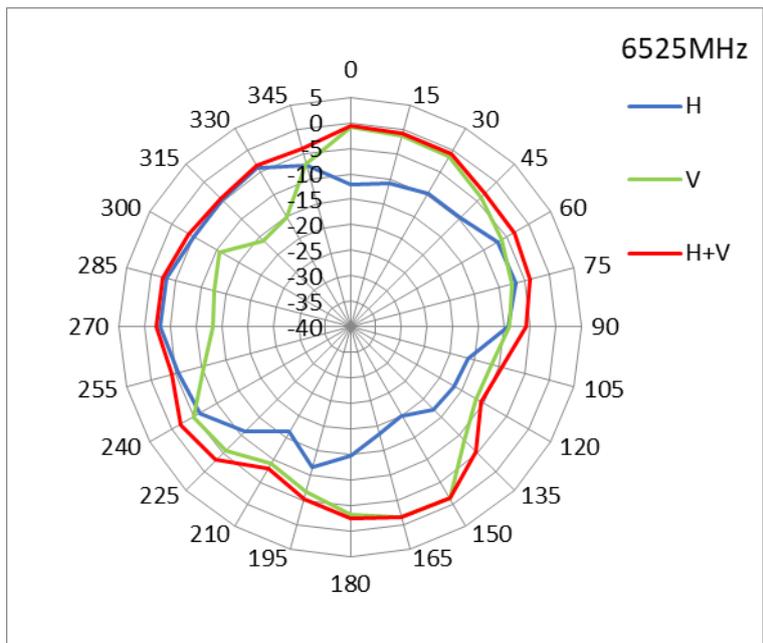
Max Antenna 2D Radiation Pattern 5925-6425 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 5925-6425 | 0.28 |



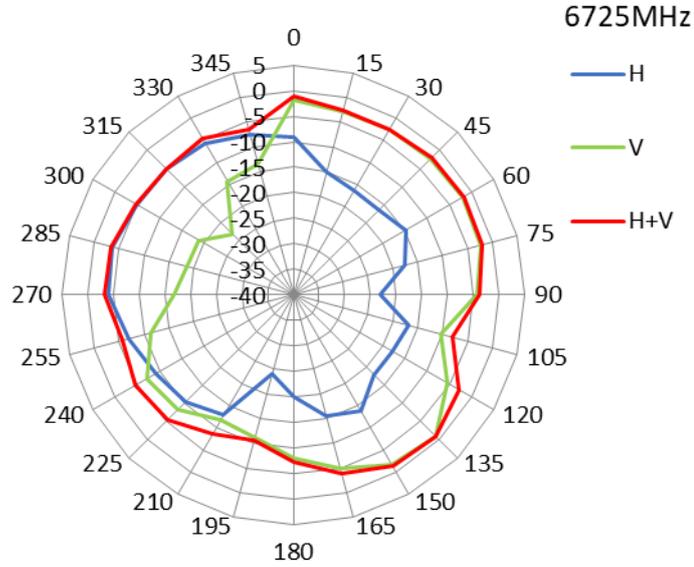
Max Antenna 2D Radiation Pattern 6425-6525 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 6425-6525 | -0.52 |



Max Antenna 2D Radiation Pattern 6525-6875 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 6525-6875 | 1.67 |



Max Antenna 2D Radiation Pattern 6875-7125 MHz

| Frequency (MHz) | Horizontal+ Vertical (dBi) peak (dBi) |
|-----------------|---------------------------------------|
| 6875-7125 | 0.95 |

