

# Regulatory WLAN Antenna Information

|         | Vendor Name               | Project Code |
|---------|---------------------------|--------------|
|         |                           |              |
| Antenna | Wistron Neweb Corporation | EDT-U        |

## Antenna Sample / Antenna Data Requirements for worldwide regulatory approval

| Section | Description of Required OEM / ODM Antenna Information                                                                                                                                                              | US / IC  | EU       | Japan    | Taiwan                      | S.Korea                     |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|----------|-----------------------------|-----------------------------|
| 1A      | Part Number for Antenna only                                                                                                                                                                                       | Required | Required | Required | Required                    | Required                    |
| 1B      | Antenna Manufacturer Name                                                                                                                                                                                          | Required | Required | Required | Required                    | Required                    |
| 1C      | Description of Antenna Type                                                                                                                                                                                        | Required | N/A      | N/A      | N/A                         | N/A                         |
| 1D      | Part number of Antenna Assembly / cable impedance, length & diameter.                                                                                                                                              | Required | Desired  | Desired  | Desired                     | Desired                     |
| 1E      | Main & Aux antenna (Peak Gain W/ cable loss)                                                                                                                                                                       | Required | Required | Required | Required                    | Required                    |
|         | 1E OR 1F, 1G, 1H                                                                                                                                                                                                   |          |          |          |                             |                             |
| 1F      | Main & Aux antenna (Peak Gain only)                                                                                                                                                                                | Required | Required | Required | Required                    | Required                    |
| 1G      | VSWR of cable including connector                                                                                                                                                                                  | Required | Required | Required | Required                    | Required                    |
| 1H      | Main & Aux antenna (Cable loss W/ connector)                                                                                                                                                                       | Required | Required | Required | Required                    | Required                    |
| 2       | Dimensioned Photographs <b>and</b> Drawings of main & auxiliary antennas                                                                                                                                           | Required | Required | Required | Required                    | Required                    |
| 3       | Radiation patterns of antennas loaded in the host platform.                                                                                                                                                        | Required | Desired  | Required | N/A                         | Required                    |
| 4       | Platform model name / number - correlated to antenna manufacturer and antenna part number                                                                                                                          | Required | Required | Desired  | Required                    | Desired                     |
| 5       | Photograph(s) or Drawings showing location of antennas in platform. <b>(S. Korea requires photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.</b> | Required | Required | Desired  | Required<br><b>(Photos)</b> | Required<br><b>(Photos)</b> |
| 6       | Mech. drawings / photos with dimensions of antenna locations and distance from end-user (For evaluation of SAR testing requirement).                                                                               | Required | N/A      | N/A      | N/A                         | N/A                         |
| 7       | Photograph(s) or Drawings showing the location of all antennas (WLAN, BT, other) and distance between those transmitting antennas. Information will be used to evaluate whether co-location testing is required.   | Required | N/A      | N/A      | N/A                         | N/A                         |

# Antenna Information

## Section 1. Antenna Assembly Specifications

### Antenna Assembly Summary:

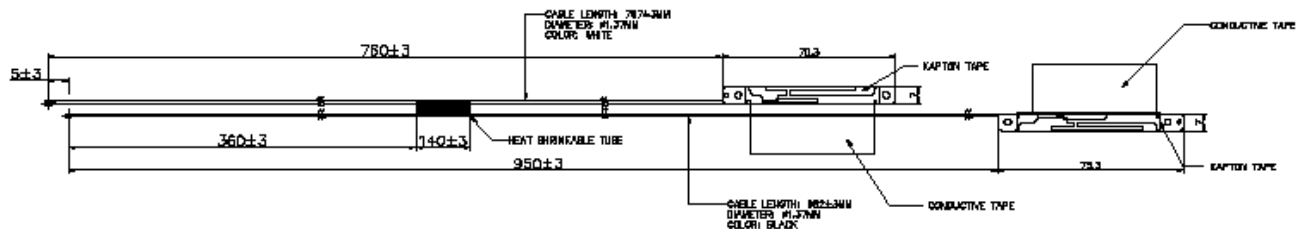
#### Antenna Assembly Summary:

| 1A<br>Antenna Part Number                                               | 1B<br>Manufacture         | 1C<br>Antenna Type | 1D<br>Cable Assembly Part Number and Information                                                                                    | 1E<br>Peak Gain w/ Cable loss (dBi) | 1F<br>Peak Gain w/o Cable Loss (dBi) | 1G<br>VSWR   | 1H<br>Cable Loss (dBi) |
|-------------------------------------------------------------------------|---------------------------|--------------------|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------------------------|--------------|------------------------|
| Main Antenna<br>(WNC P/N: 81.EDT15.001)<br>(customer P/N: 14-152027002) | Wistron Neweb Corporation | IFA                | P/N: WH-S-1.37 B-982 MM-(2-2-1)& 1.37 WF87 MM-(2-2-1)<br>50 ohm Coaxial.<br>length: 787 mm<br>diameter: 1.37 mm<br>Connector: IPEX  | 2400-2500MHz                        | 2400-2500MHz                         | 2400-2500MHz | 2400-2500MHz           |
|                                                                         |                           |                    |                                                                                                                                     | 2.09 dBi (peak)                     | 4.29 dBi (peak)                      | 2.0 max      | 2.20 dBi (peak)        |
|                                                                         |                           |                    |                                                                                                                                     | 5150-5350MHz                        | 5150-5350MHz                         | 5150-5350MHz | 5150-5350MHz           |
|                                                                         |                           |                    |                                                                                                                                     | 4.07 dBi (peak)                     | 7.05 dBi (peak)                      | 2.5 max      | 2.99 dBi (peak)        |
|                                                                         |                           |                    |                                                                                                                                     | 5470-5725MHz                        | 5470-5725MHz                         | 5470-5725MHz | 5470-5725MHz           |
| AUX Antenna<br>(WNC P/N: 81.EDT15.001)<br>(customer P/N: 14-152027002)  | Wistron Neweb Corporation | IFA                | P/N: WH-S-1.37 B-788 MM-(2-2-1)& 1.37 B-647 MM-(2-2-1)<br>50 ohm Coaxial.<br>length: 982 mm<br>diameter: 1.37 mm<br>Connector: IPEX | 2400-2500MHz                        | 2400-2500MHz                         | 2400-2500MHz | 2400-2500MHz           |
|                                                                         |                           |                    |                                                                                                                                     | 1.82 dBi (peak)                     | 4.52 dBi (peak)                      | 2.0 max      | 2.69 dBi (peak)        |
|                                                                         |                           |                    |                                                                                                                                     | 5150-5350MHz                        | 5150-5350MHz                         | 5150-5350MHz | 5150-5350MHz           |
|                                                                         |                           |                    |                                                                                                                                     | 4.32 dBi (peak)                     | 7.99 dBi (peak)                      | 2.5 max      | 3.67 dBi (peak)        |
|                                                                         |                           |                    |                                                                                                                                     | 5470-5725MHz                        | 5470-5725MHz                         | 5470-5725MHz | 5470-5725MHz           |
|                                                                         |                           |                    |                                                                                                                                     | 5725-5825MHz                        | 5725-5825MHz                         | 5725-5825MHz | 5725-5825MHz           |
|                                                                         |                           |                    |                                                                                                                                     | 4.22 dBi (peak)                     | 7.43 dBi (peak)                      | 2.5 max      | 3.21 dBi (peak)        |
|                                                                         |                           |                    |                                                                                                                                     | 5725-5825MHz                        | 5725-5825MHz                         | 5725-5825MHz | 5725-5825MHz           |
|                                                                         |                           |                    |                                                                                                                                     | 4.22 dBi (peak)                     | 7.43 dBi (peak)                      | 2.5 max      | 3.21 dBi (peak)        |
|                                                                         |                           |                    |                                                                                                                                     | 5725-5825MHz                        | 5725-5825MHz                         | 5725-5825MHz | 5725-5825MHz           |
|                                                                         |                           |                    |                                                                                                                                     | 4.00 dBi (peak)                     | 7.94 dBi (peak)                      | 2.5 max      | 3.94 dBi (peak)        |

## Section 2. Dimensioned Photos or Drawings of Antennas

Include a dimensioned photo and dimensioned drawing of main antenna here.

#### Main and Aux Antenna Dimensioned Drawing:



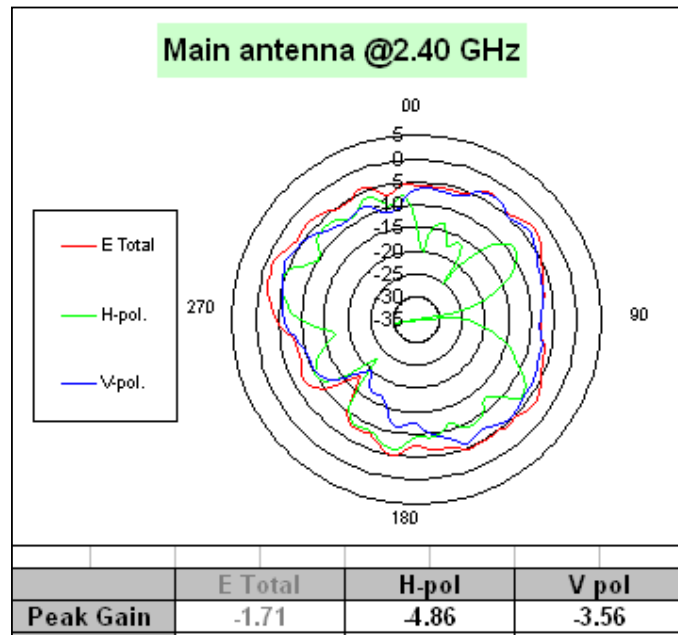
#### Main and Aux Antenna Photo:

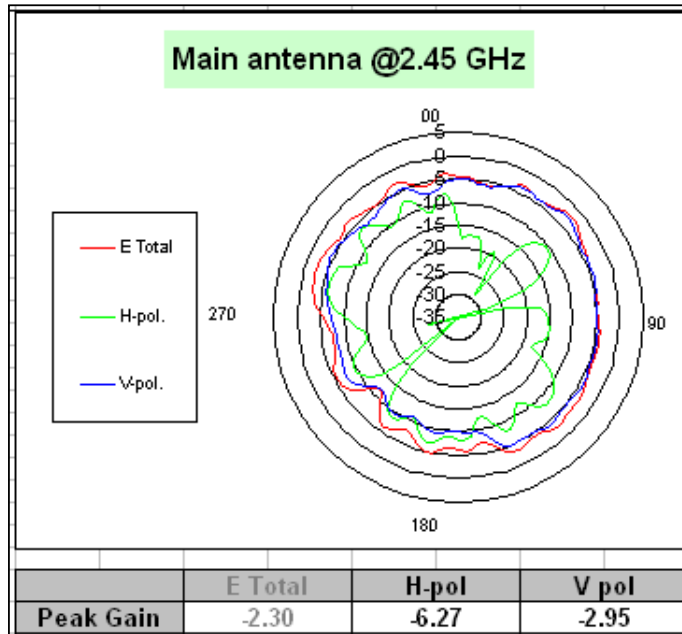


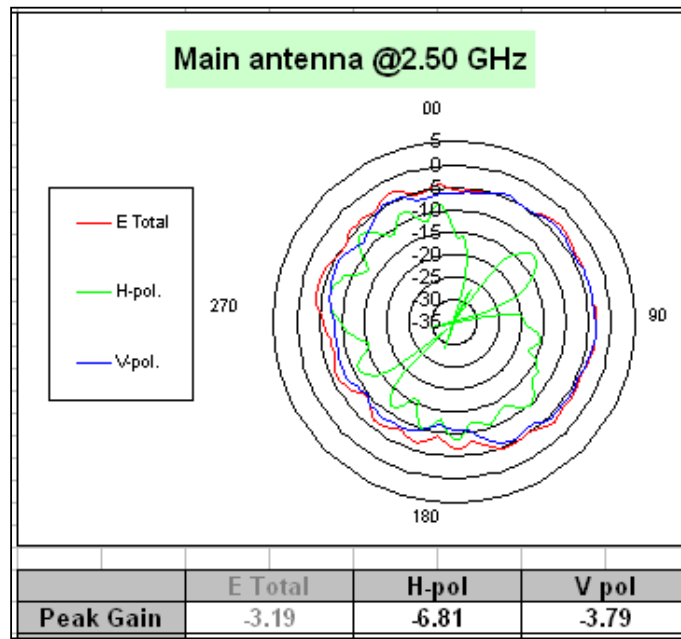
## Section 3. Radiation characteristics of antennae Loaded in Host Platform

### 2400-2500MHz radiation characteristic

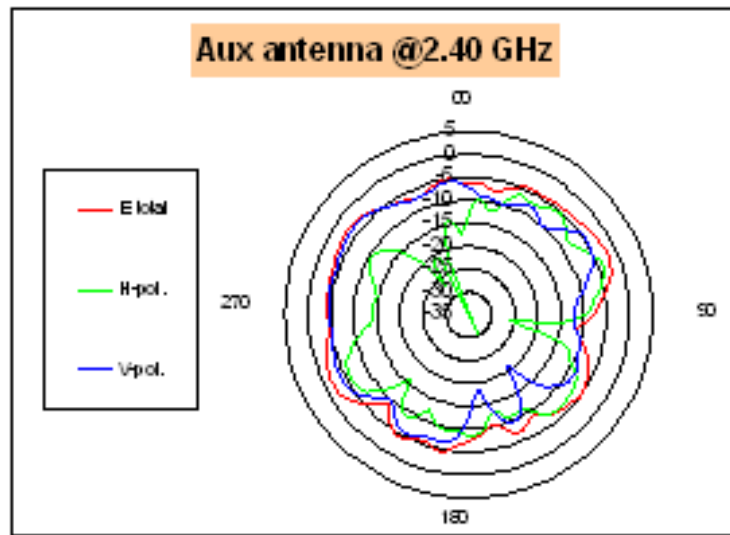
#### Main antenna: 2400 MHz



**Main antenna: 2450 MHz**

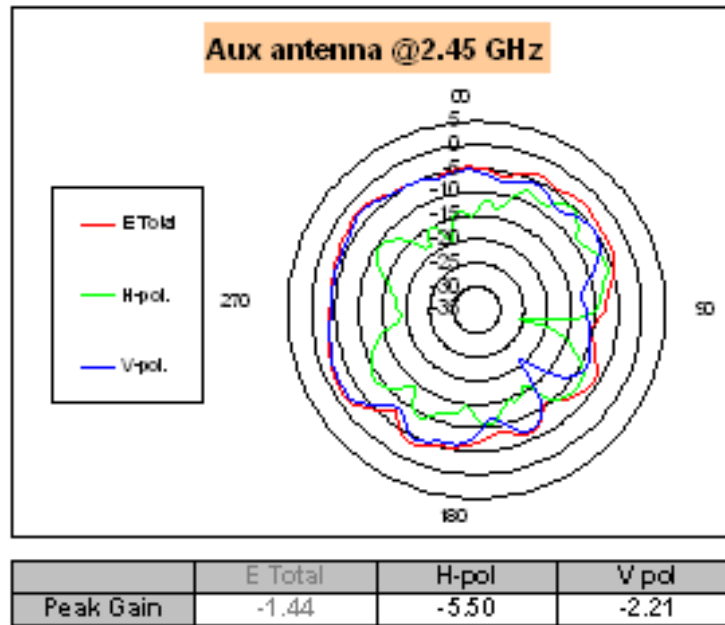
**Main antenna: 2500 MHz**

## Auxiliary antenna: 2400 MHz

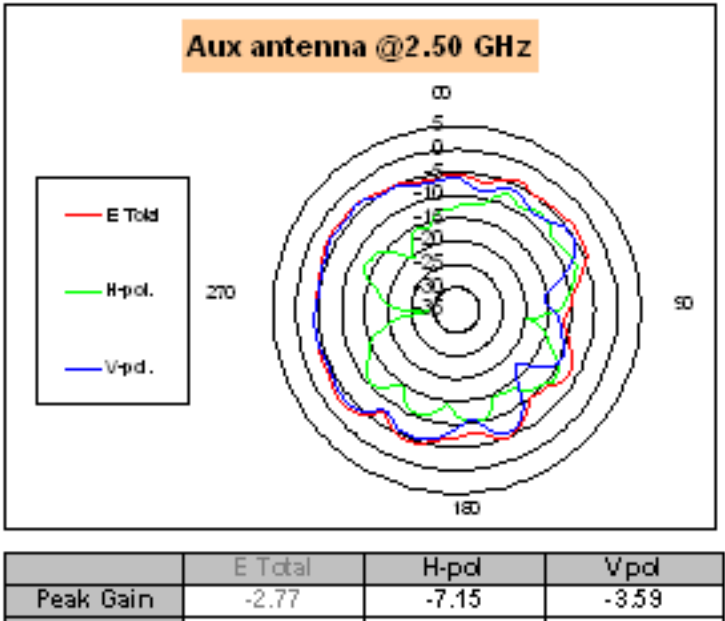


|           | E Total | H-pol | V-pol |
|-----------|---------|-------|-------|
| Peak Gain | -1.83   | -3.98 | -3.53 |

## Auxiliary antenna: 2450 MHz

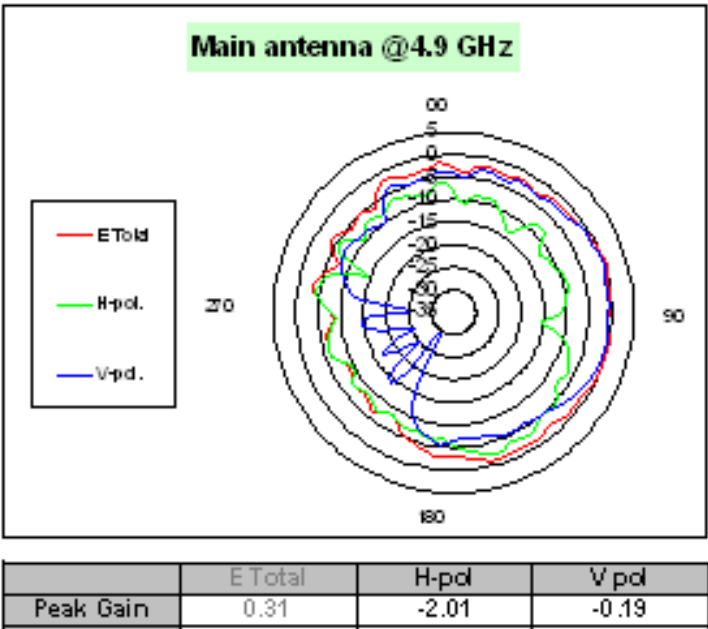


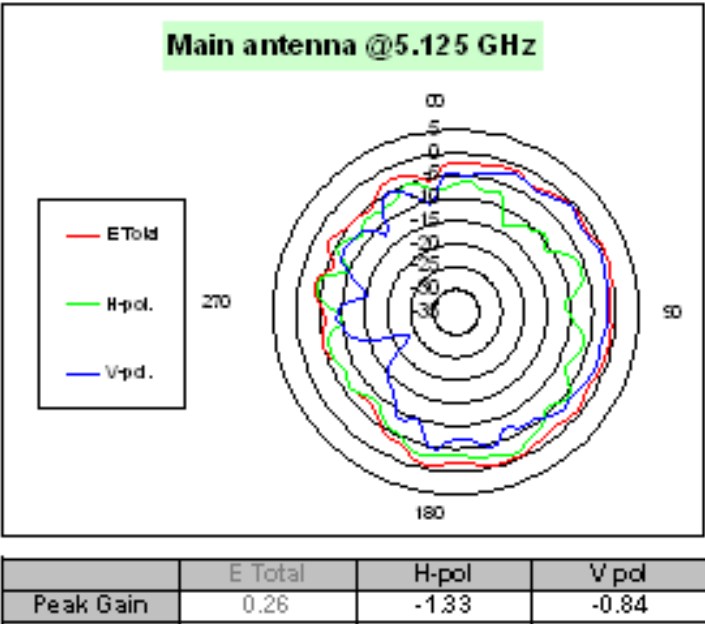
Auxiliary antenna: 2500 MHz



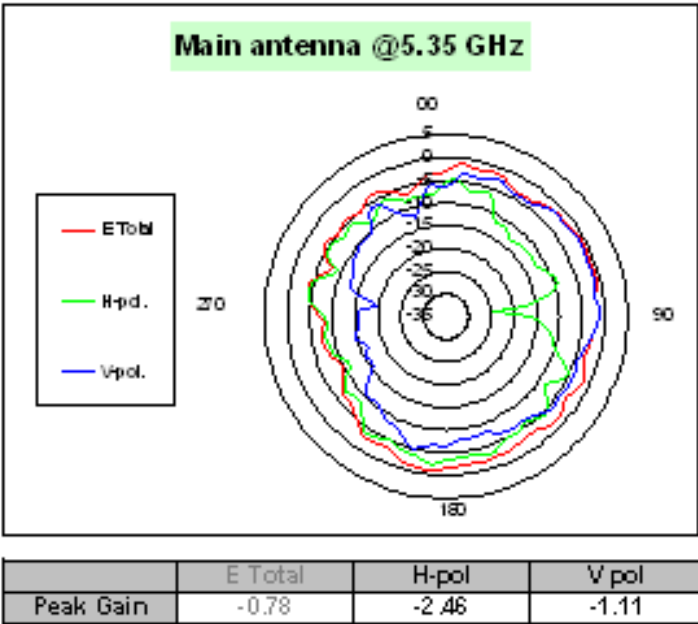
4900-5350 MHz radiation characteristic

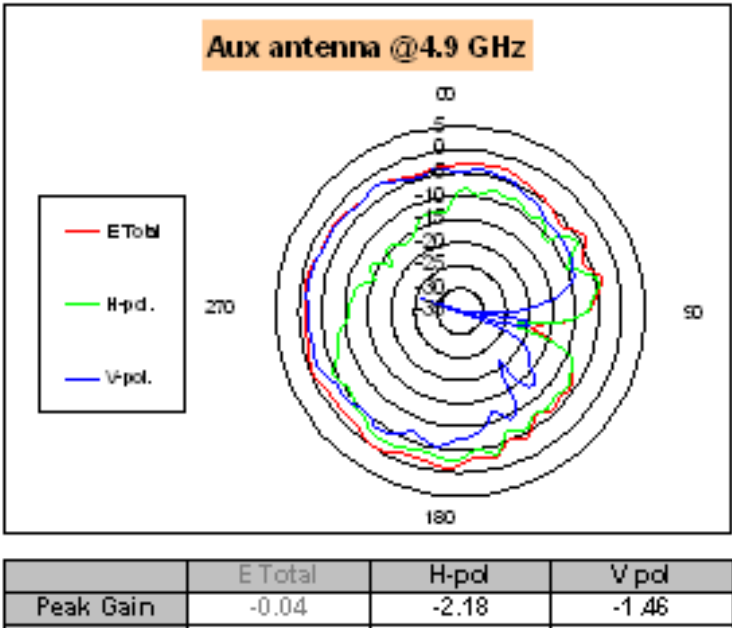
Main antenna: 4900 MHz



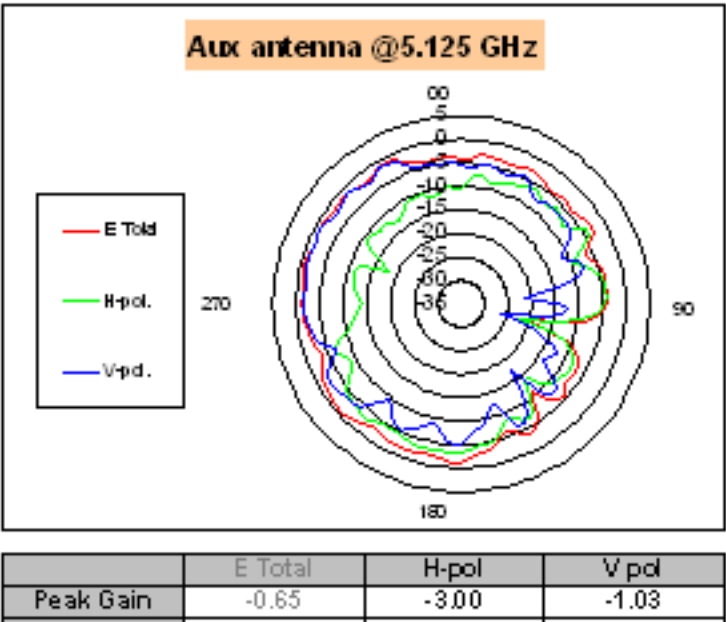


Main antenna: 5350 MHz

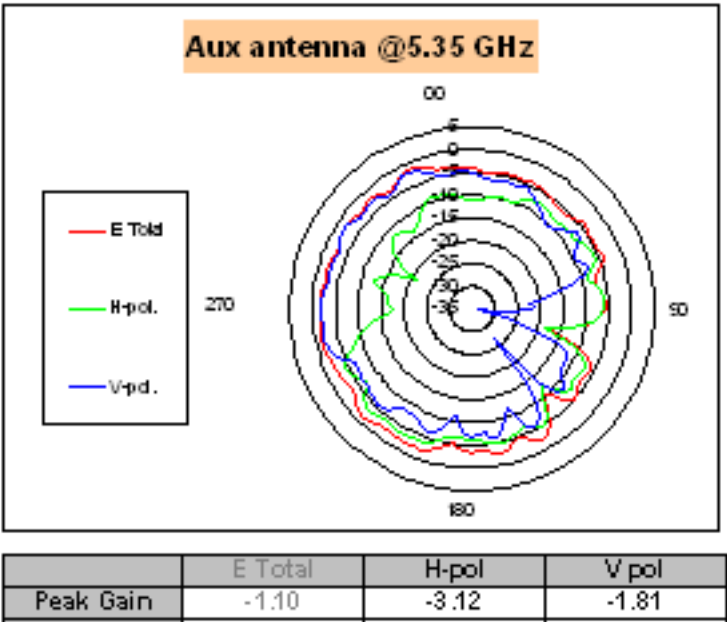




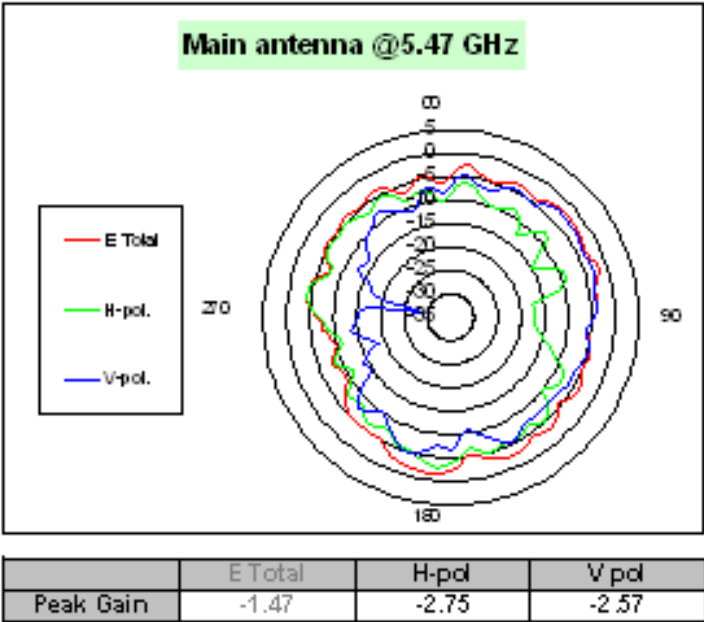
Auxiliary antenna: 5125 MHz

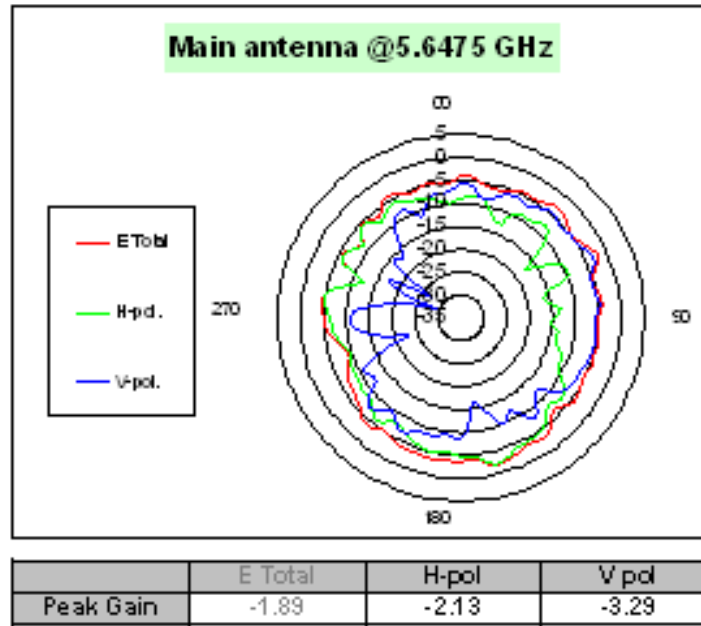


Auxiliary antenna: 5350 MHz

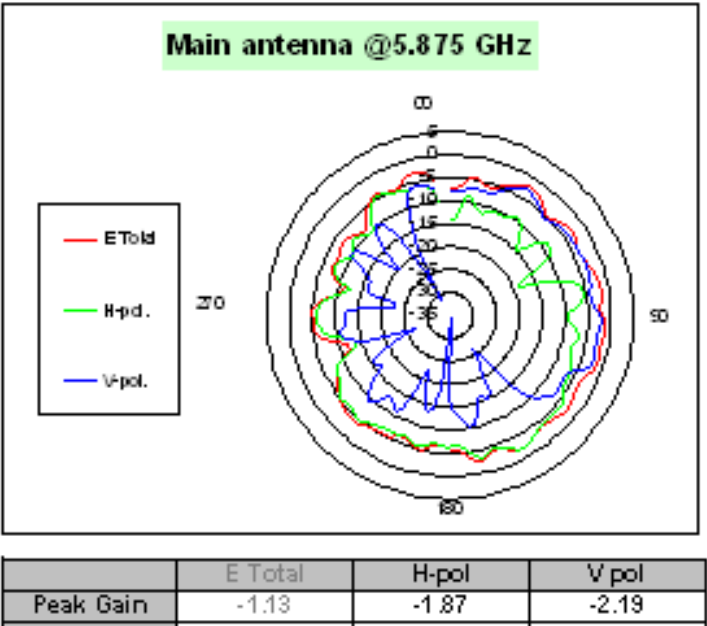


Main antenna: 5470 MHz

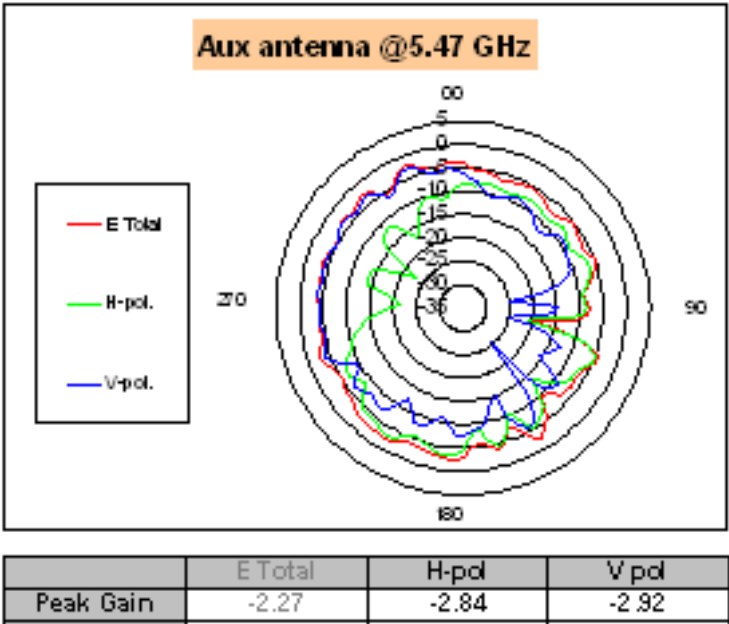


**Main antenna: 5647.5 MHz**

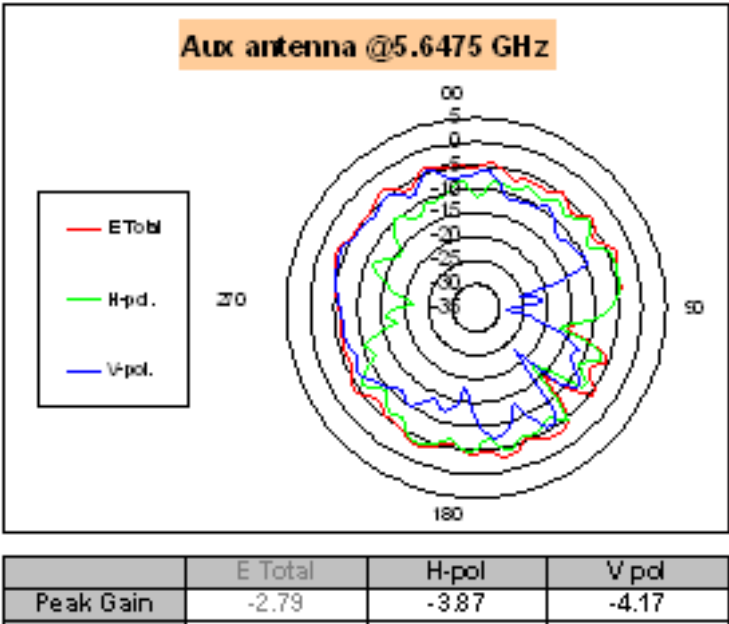
Main antenna: 5875 MHz

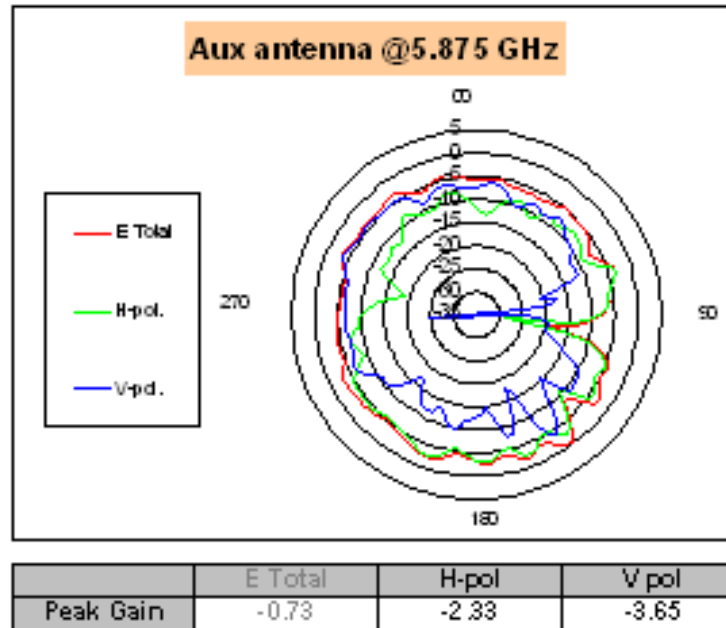


Auxiliary antenna: 5470 MHz



Auxiliary antenna: 5647.5 MHz

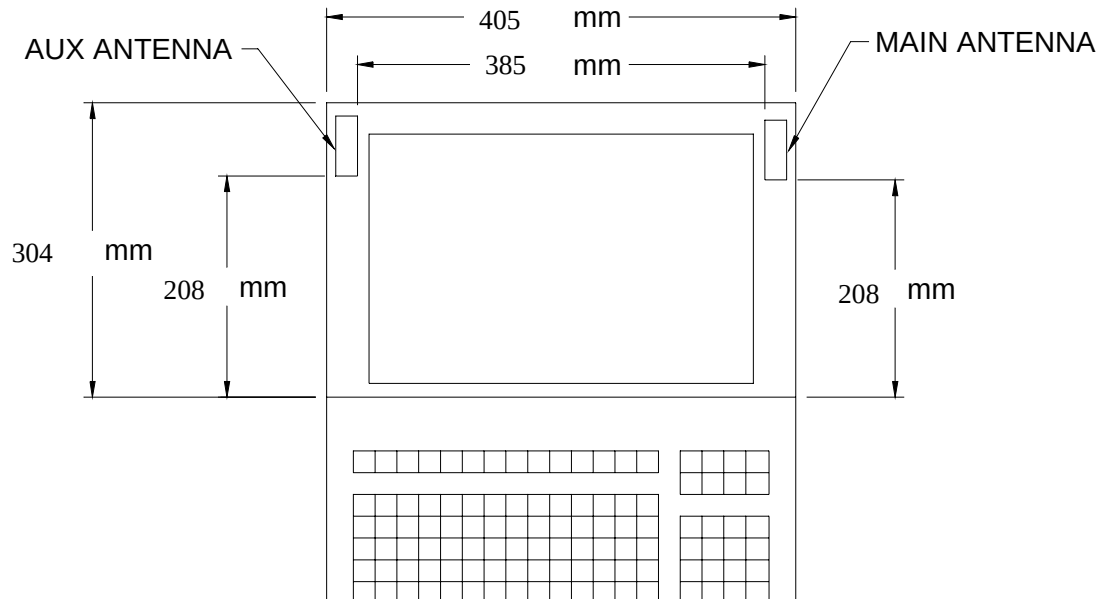


**Auxiliary antenna: 5875 MHz**

## Section 4. Antenna Host Platform Location Information

Include a dimensioned photos or dimensioned drawings of main and auxiliary antenna placements.





## Section 6. Antenna dimensional information for SAR evaluation

Include a dimensioned photos or dimensioned drawings showing the distance (mm) between the transmit (main) antenna and the user (excluding hands, wrist, feet, and ankle)

