

Regulatory WWAN Antenna Information

| Platform information | | | | | | |
|----------------------|---|-------------------------------------|---|----------------------------------|-------------------------------------|---|
| Brand | ODM | Platform model name | Platform type (ex: regular NB, convertible PC, AIO...etc) | | | *SAR minimum separation (mm) |
| HP Inc. | Inventec | Starfox (HSN-I50C) | Regular NB | | | 9.4mm |
| Antenna information | | | | | | Maximum Peak gain |
| Vendor | Type | Antenna Part number (Ant5 TX/RX) | Antenna Part number (Ant6 RX) | Antenna Part number (Ant7 RX) | Antenna Part number (Ant8 TX/RX) | Example:4900MHz (Choice TX high peak gain) |
| HONG-BO | PIFA | 6036B0305001 (00-2602748450) | 6036B0304901 (00-2602748550) | 6036B0304801 (00-2602748650) | 6036B0304701 (00-2602748750) | 2.35 dBi |
| Module information | | | | | | |
| Model | Form factor and suffixes (NGW/ HMW AND AN/ NB/ BN....) | | | | | |
| Kavalan | Fibocom FM350-GL WWAN 4x4 5G NR radio module | | | | | |
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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 Assembly | 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 | Tx antenna Gain (Peak Gain W/ cable loss) * | Required | Required | Required | Required | Required |
| 2 | Dimensioned Photographs and Drawings of Tx and Rx antennas | Required | Required | Required | Required | Required |
| 3 | Radiation patterns of antennas loaded in the host platform. | N/A | Required | Required | Required | N/A |
| 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. <u>(S. Korea requires photographs of antennas for approval submission). Taiwan requires pictures of each antenna type shown in the system.</u> | Required | Required | Desired | <u>Required (Photos)</u> | <u>Required (Photos)</u> |
| 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, 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 |
| 8 | Local representative contact information for LMA/ PARS process. | Required | N/A | N/A | N/A | N/A |

Antenna Information

Section 1. Antenna Assembly Specifications

| Communication System | Band | Frequency(MHz) from low to high spectrum | | 1A Part Number for Antenna Assembly | 1B Antenna Manufacturer Name | 1C Description of Antenna Type | 1D Tx Antenna Gain (dBi) Ant5 |
|----------------------------|------|--|------|-------------------------------------|------------------------------|--------------------------------|-------------------------------|
| WCDMA/ LTE/5G NR FR1 | 1 | 1920 | 1980 | Ant5 : 6036B0305001 | 00-2602748450 | PIFA | 0.3 |
| WCDMA/ LTE/5G NR FR1 | 2 | 1850 | 1910 | | | | 0.93 |
| LTE/5G NR FR1 | 3 | 1710 | 1785 | | | | 1.26 |
| WCDMA/ LTE | 4 | 1710 | 1755 | | | | 1.26 |
| WCDMA/ LTE/5G NR FR1 | 5 | 824 | 849 | | | | -1.74 |
| LTE/5G NR FR1 | 7 | 2500 | 2570 | | | | -0.41 |
| WCDMA/ LTE/5G NR FR1 | 8 | 880 | 915 | | | | -1.62 |
| LTE | 12 | 699 | 716 | | | | -0.72 |
| LTE | 13 | 777 | 787 | | | | -1.47 |
| LTE | 14 | 788 | 798 | | | | -2.85 |
| LTE | 17 | 704 | 716 | | | | -0.72 |
| LTE | 18 | 815 | 830 | | | | -2.97 |
| LTE | 19 | 830 | 845 | | | | -1.91 |
| LTE/5G NR FR1 | 20 | 832 | 862 | | | | -1.23 |
| LTE/5G NR FR1 | 25 | 1850 | 1915 | | | | 0.93 |
| LTE | 26 | 814 | 849 | | | | -1.74 |
| LTE/5G NR FR1 | 28 | 703 | 748 | | | | -0.72 |
| LTE/5G NR FR1 | 30 | 2305 | 2315 | | | | 0.14 |
| LTE | 34 | 2010 | 2025 | | | | 0.34 |
| LTE/5G NR FR1 | 38 | 2570 | 2620 | | | | -0.46 |
| LTE | 39 | 1880 | 1920 | | | | 0.93 |
| LTE/5G NR FR1 | 40 | 2300 | 2400 | | | | 0.14 |
| LTE/5G NR FR1 | 41 | 2496 | 2690 | | | | -0.41 |
| LTE | 42 | 3400 | 3600 | | | | 0.53 |
| LTE | 43 | 3600 | 3800 | | | | 0.47 |
| LTE/5G NR FR1 | 48 | 3550 | 3700 | | | | 0.53 |
| LTE/5G NR FR1 | 66 | 1710 | 1780 | | | | 1.26 |
| LTE/5G NR FR1 | 71 | 663 | 698 | | | | -2.13 |
| 5G NR FR1 | 77 | 3300 | 4200 | | | | 0.53 |
| 5G NR FR1 | 78 | 3300 | 3800 | 0.53 | | | |
| 5G NR FR1 | 79 | 4400 | 5000 | -0.97 | | | |

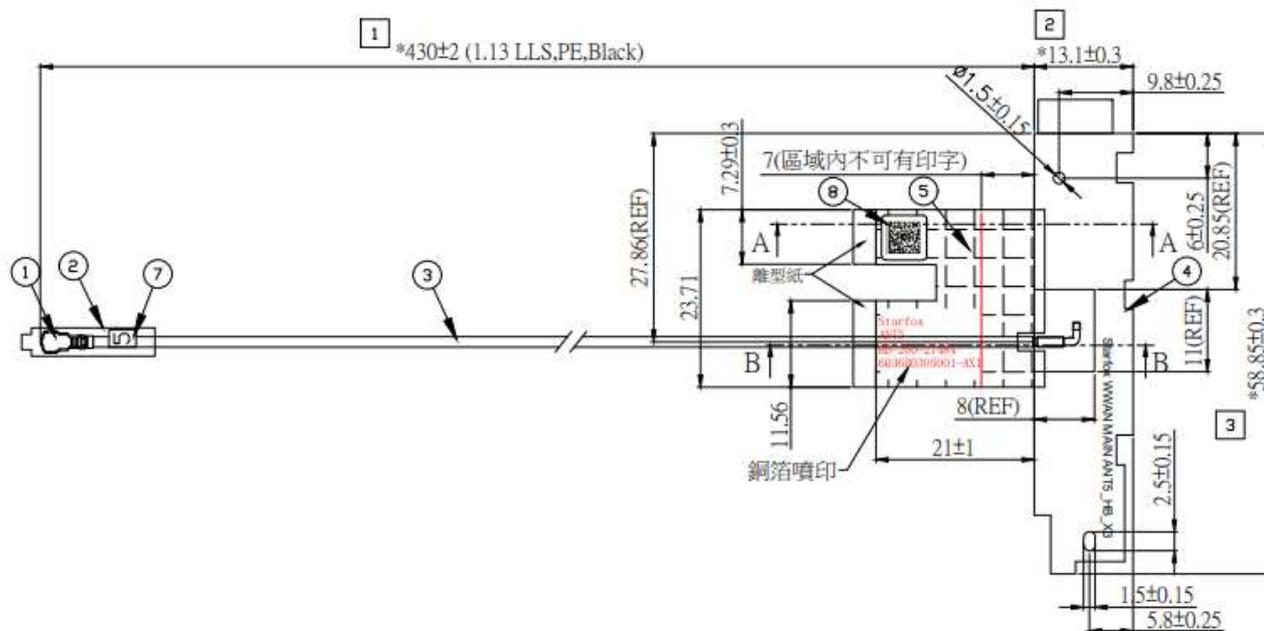
| Communication System | Band | Frequency(MHz) from low to high spectrum | | 1A Part Number for Antenna Assembly | 1B Antenna Manufacturer Name | 1C Description of Antenna Type | 1D Tx Antenna Gain (dBi) Ant8 |
|----------------------|------|--|------|-------------------------------------|------------------------------|--------------------------------|-------------------------------|
| 5G NR FR1 | 1 | 1920 | 1980 | Ant8 : 6036B0304701 | 00-2602748750 | PIFA | -0.49 |
| 5G NR FR1 | 2 | 1850 | 1910 | | | | 0.57 |
| 5G NR FR1 | 3 | 1710 | 1785 | | | | 0.73 |
| 5G NR FR1 | 5 | 824 | 849 | | | | -13.74 |
| 5G NR FR1 | 7 | 2500 | 2570 | | | | 0.64 |
| 5G NR FR1 | 25 | 1850 | 1915 | | | | 0.57 |
| 5G NR FR1 | 30 | 2305 | 2315 | | | | -0.84 |
| 5G NR FR1 | 38 | 2570 | 2620 | | | | 1.64 |
| 5G NR FR1 | 40 | 2300 | 2400 | | | | -0.13 |
| 5G NR FR1 | 41 | 2496 | 2690 | | | | 1.64 |
| 5G NR FR1 | 48 | 3550 | 3700 | | | | -0.84 |
| 5G NR FR1 | 66 | 1710 | 1780 | | | | 0.63 |
| 5G NR FR1 | 77 | 3300 | 4200 | | | | -0.57 |
| 5G NR FR1 | 78 | 3300 | 3800 | | | | -0.57 |
| 5G NR FR1 | 79 | 4400 | 5000 | | | | 2.35 |

- Antenna Peak Gain required being test in system basis.

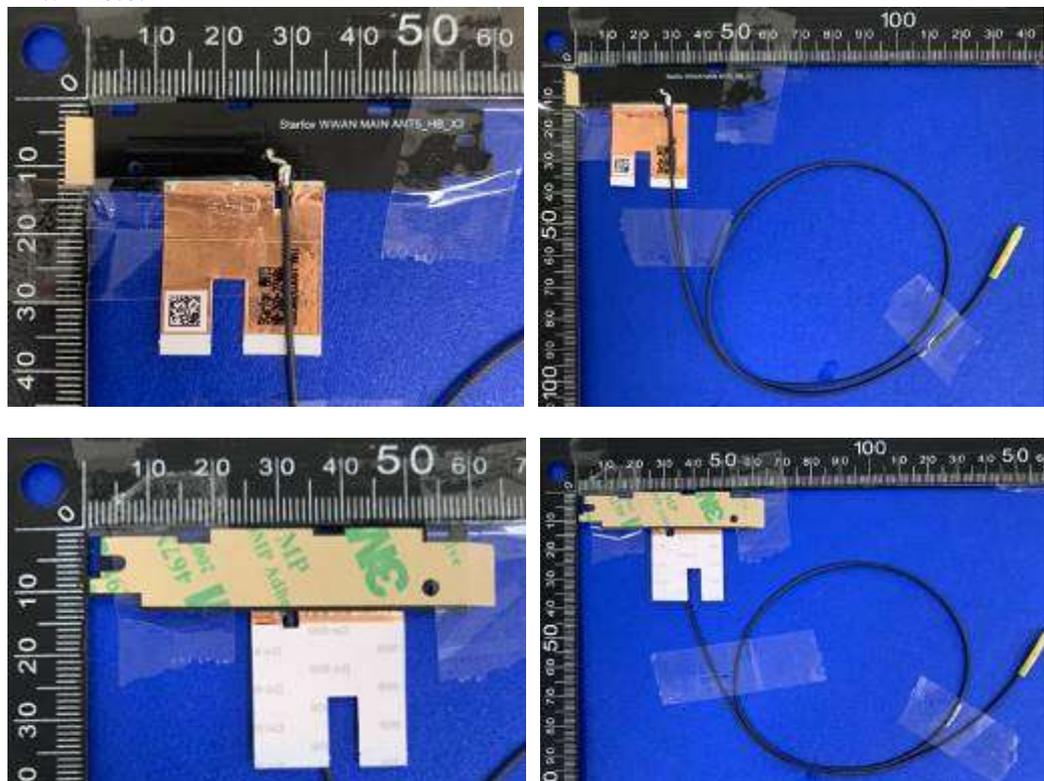
Section 2. Dimensioned Photos or Drawings of Antennas

| | Ant supplier | Part number | Drawing | Photo |
|------|--------------|---------------|---------|-------|
| Ant5 | 6036B0305001 | 00-2602748450 | V | V |
| Ant6 | 6036B0304901 | 00-2602748550 | V | V |
| Ant7 | 6036B0304801 | 00-2602748650 | V | V |
| Ant8 | 6036B0304701 | 00-2602748750 | V | V |

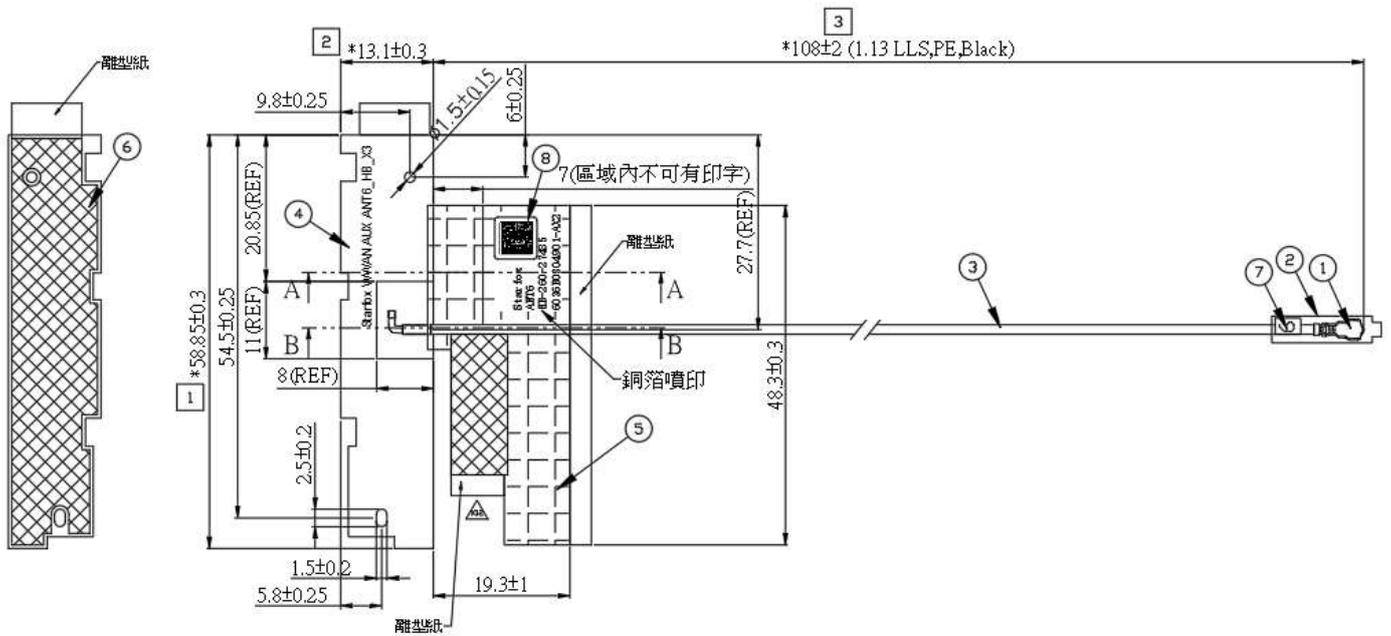
Ant5 Dimensioned Drawing:



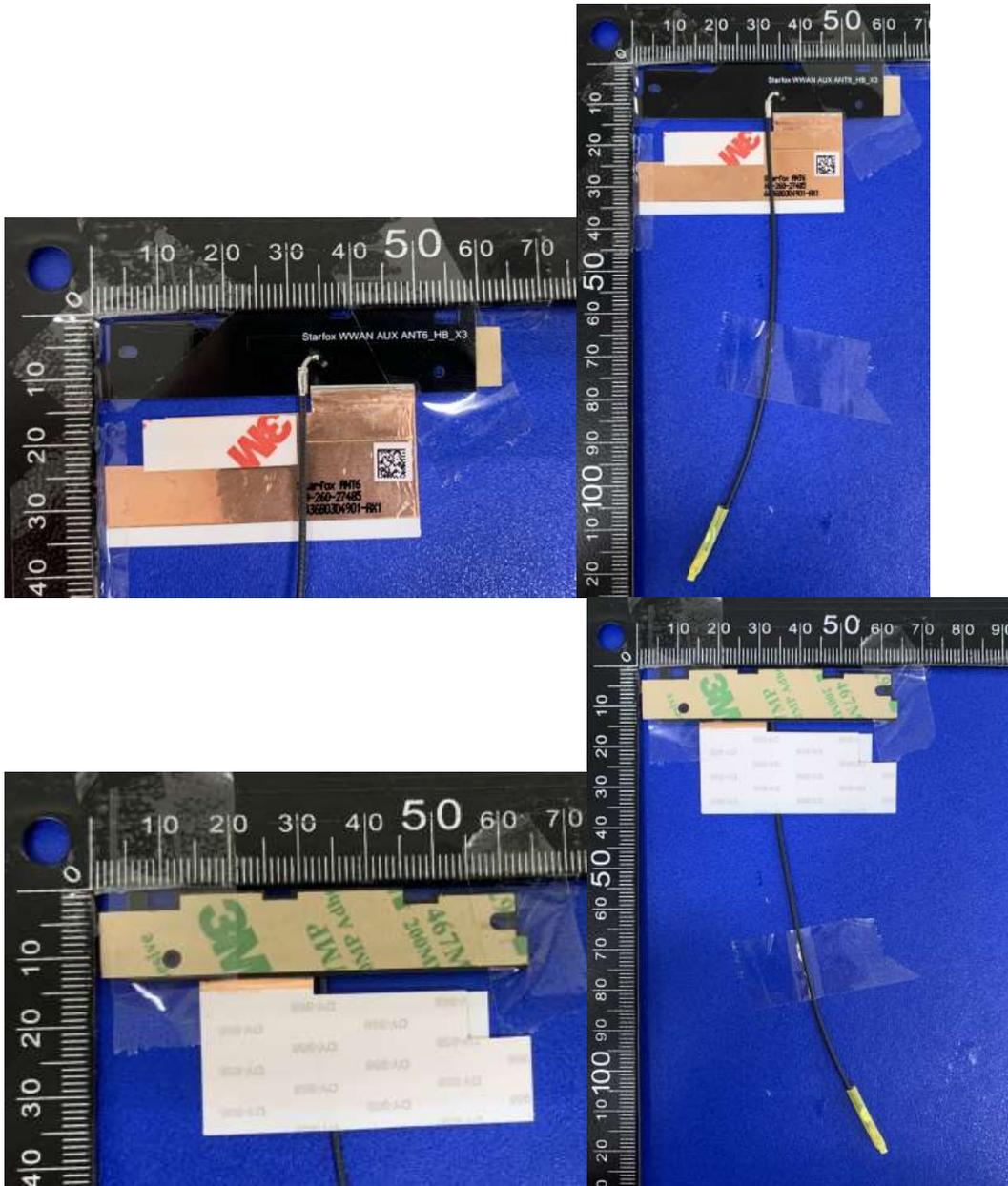
Ant5 Photo:



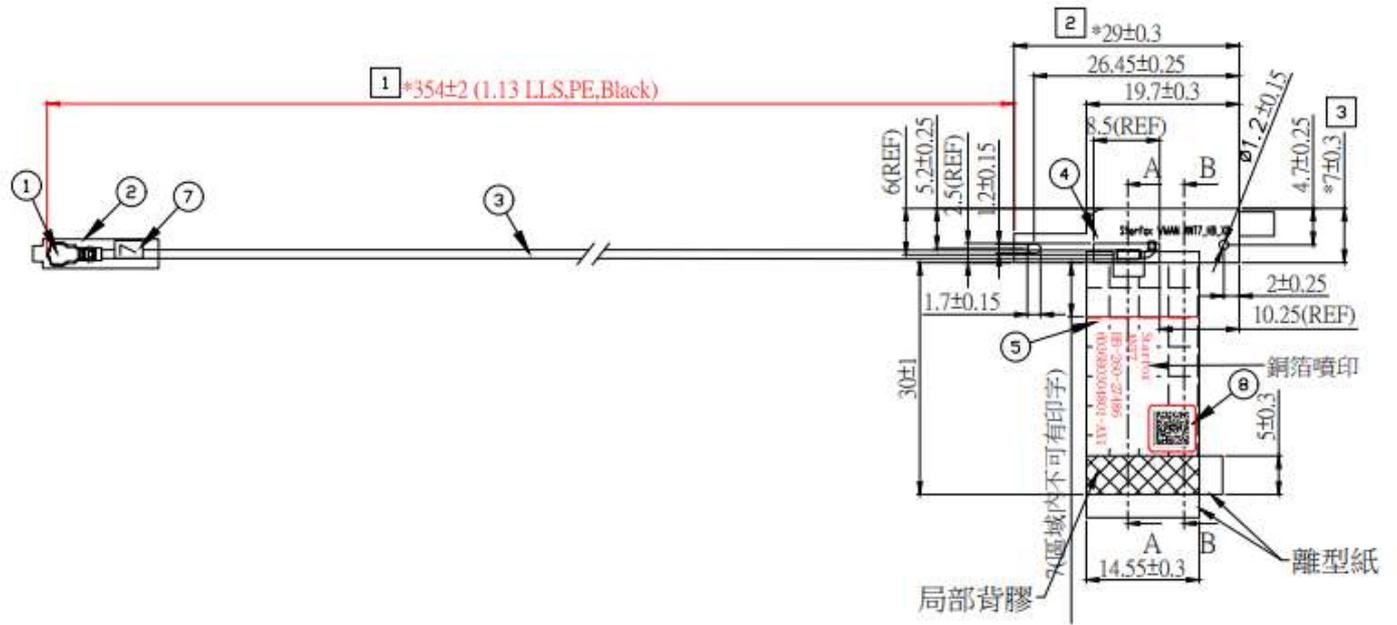
Ant6 Dimensioned Drawing:



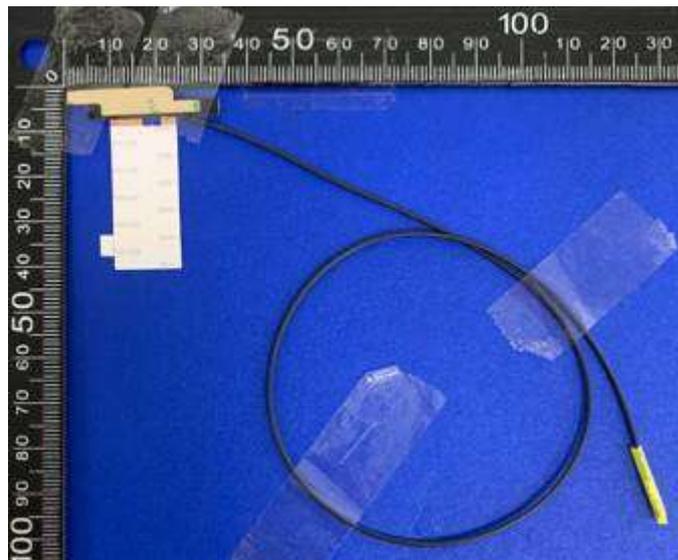
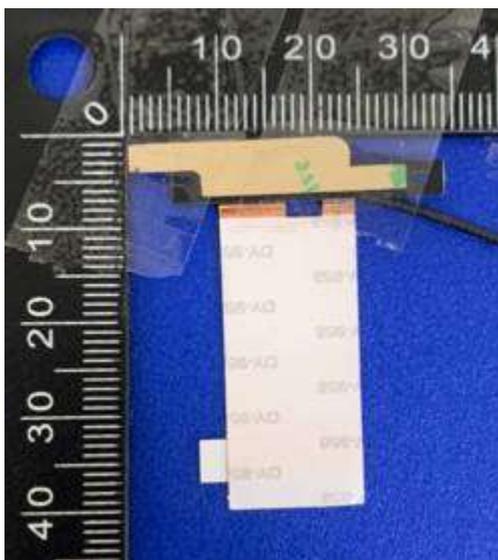
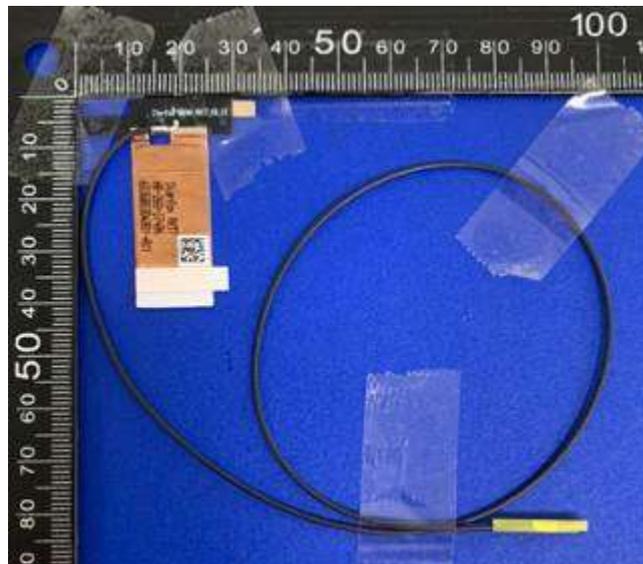
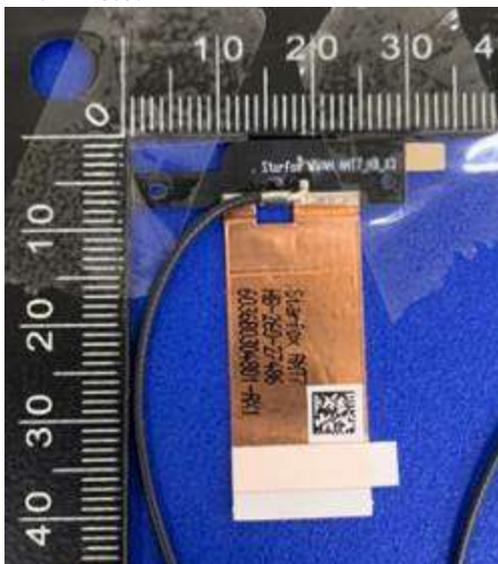
Ant6 Photo:



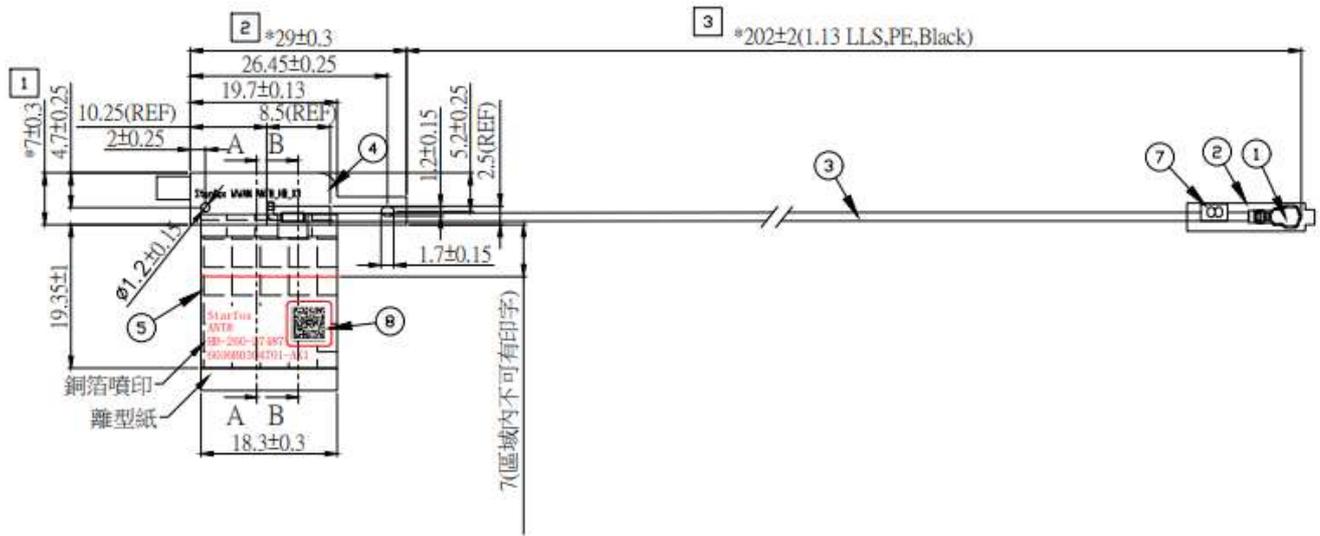
Ant7 Dimensioned Drawing:



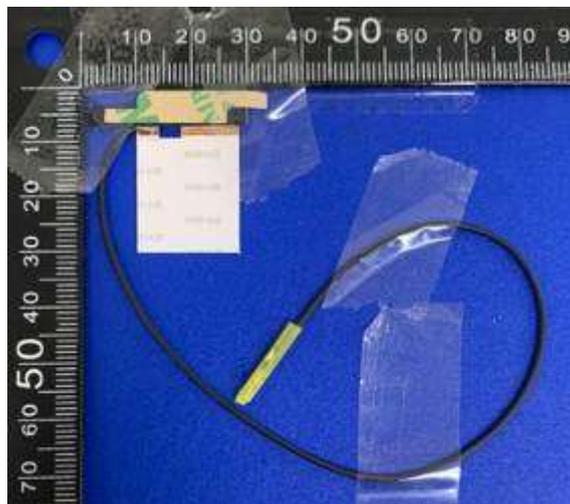
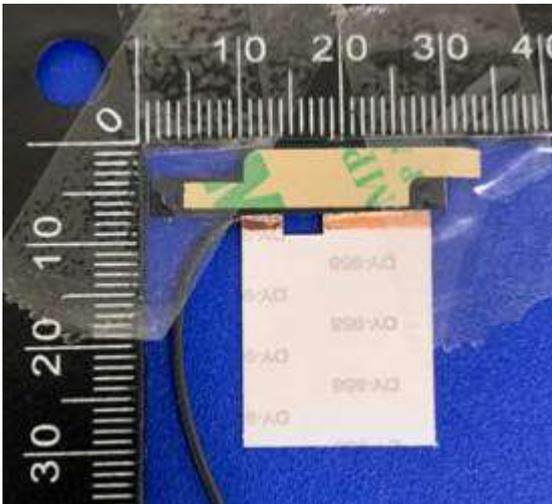
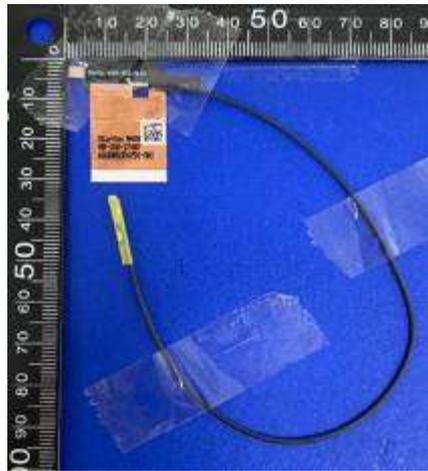
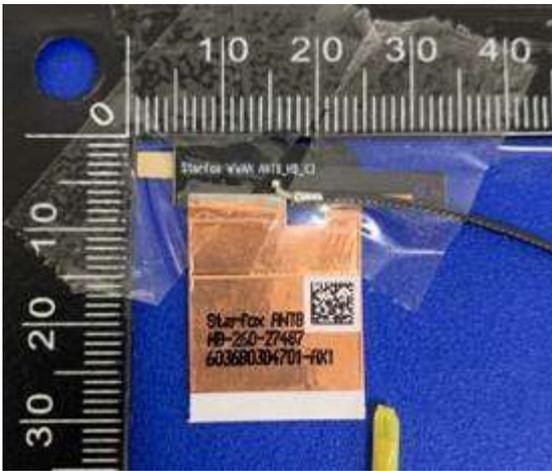
Ant7 Photo:



Ant8 Dimensioned Drawing:



Ant8 Photo:



Section 3. Radiation characteristics of antennae Loaded in Host Platform

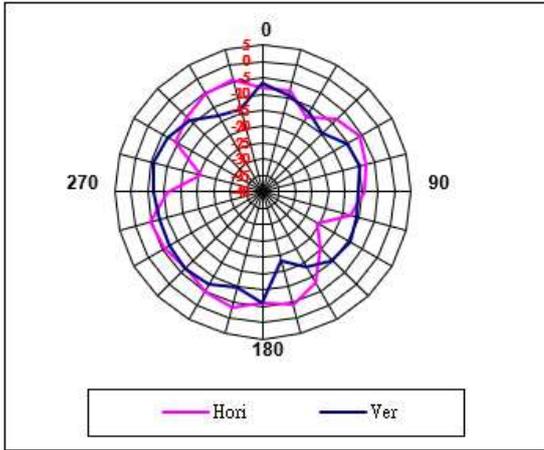
| Ant5 | | |
|-----------------|-------|-------|
| Frequency (MHz) | H | V |
| 814 | -3.47 | -5.44 |
| 832 | -2.85 | -5.27 |
| 837 | -2.50 | -5.08 |
| 845 | -1.91 | -4.69 |
| 849 | -1.74 | -4.60 |
| 880 | -1.74 | -4.36 |
| 894 | -1.74 | -3.97 |
| 915 | -1.75 | -3.98 |
| 1710 | 1.11 | -3.27 |
| 1750 | 1.26 | -3.76 |
| 1780 | 0.79 | -4.07 |
| 1785 | 0.78 | -4.07 |
| 1880 | 0.93 | -3.34 |
| 1900 | 0.54 | -3.26 |
| 1920 | 0.30 | -3.31 |
| 1950 | -0.19 | -3.03 |
| 1980 | -0.44 | -4.16 |
| 2496 | -0.72 | -3.25 |
| 2595 | -0.56 | -3.08 |
| 2690 | -1.85 | -5.33 |
| 3300 | -2.99 | -1.59 |
| 3400 | -2.18 | -2.69 |
| 3500 | -3.57 | -0.71 |
| 3600 | -4.18 | 0.47 |
| 3750 | -3.66 | -0.10 |
| 4200 | -4.11 | -0.78 |
| 4400 | -4.71 | -0.97 |
| 4800 | -5.63 | -2.80 |
| 5000 | -4.42 | -3.98 |

| Ant8 | | |
|--------------------|-------|-------|
| Frequency (MHz) | H | V |
| 1710 | -3.01 | -2.58 |
| 1750 | -2.47 | -0.02 |
| 1780 | -3.20 | 0.63 |
| 1785 | -3.29 | 0.73 |
| 1880 | -3.76 | 0.14 |
| 1900 | -3.82 | -0.79 |
| 1920 | -3.93 | -1.08 |
| 1950 | -4.32 | -0.71 |
| 1980 | -4.25 | -0.49 |
| 2496 | -4.12 | 0.35 |
| 2595 | -5.99 | 1.23 |
| 2690 | -6.47 | -0.20 |
| 3300 | -6.73 | -1.88 |
| 3400 | -6.27 | -2.10 |
| 3500 | -5.66 | -2.17 |
| 3600 | -5.81 | -0.84 |
| 3750 | -5.11 | -1.34 |
| 4200 | -4.49 | -1.81 |
| 4400 | -3.74 | -3.46 |
| 4800 | 0.66 | -5.14 |
| 5000 | 1.37 | -3.47 |

● The listed frequency 2D radiation pattern is required

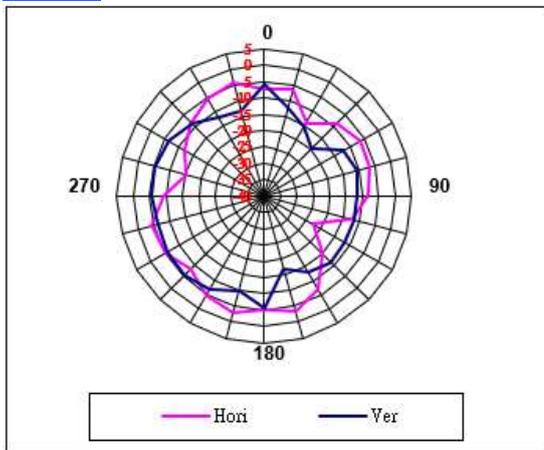
● Ant5:

814MHz



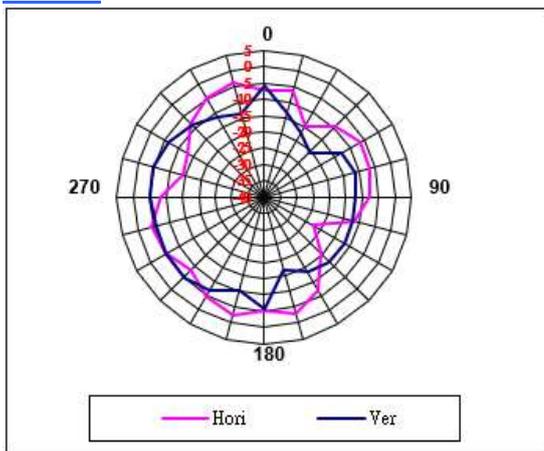
| | |
|-----------------------|---------------|
| Center Frequency | 814MHz |
| Horizontal (dBi) peak | -3.47 |
| Vertical (dBi) peak | -5.44 |

832MHz



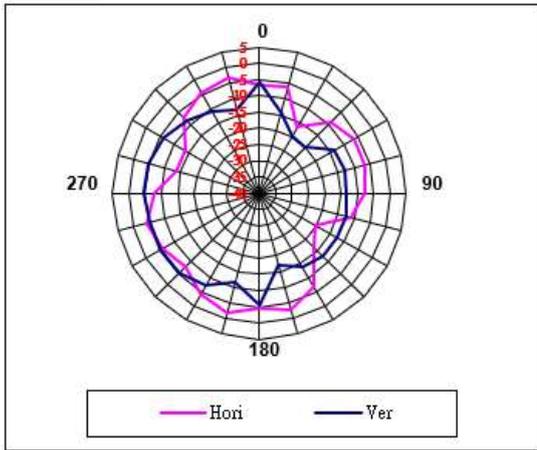
| | |
|-----------------------|---------------|
| Center Frequency | 832MHz |
| Horizontal (dBi) peak | -2.85 |
| Vertical (dBi) peak | -5.27 |

837MHz



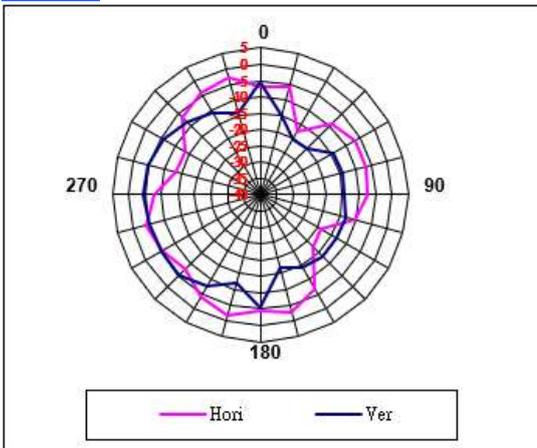
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|-----------------------|---------------|
| Center Frequency | 837MHz |
| Horizontal (dBi) peak | -2.50 |
| Vertical (dBi) peak | -5.08 |

845MHz



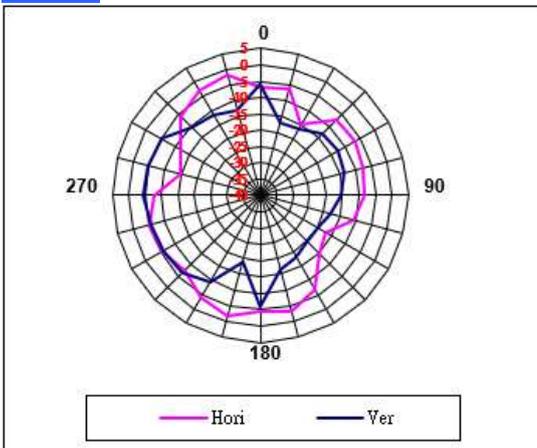
| | |
|-----------------------|---------------|
| Center Frequency | 845MHz |
| Horizontal (dBi) peak | -1.91 |
| Vertical (dBi) peak | -4.69 |

849MHz



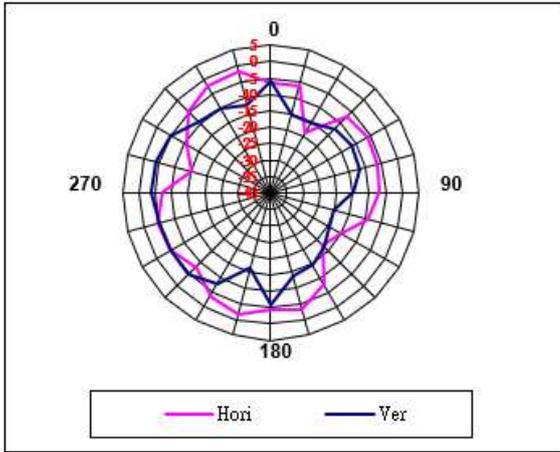
| | |
|-----------------------|---------------|
| Center Frequency | 849MHz |
| Horizontal (dBi) peak | -1.74 |
| Vertical (dBi) peak | -4.60 |

880MHz



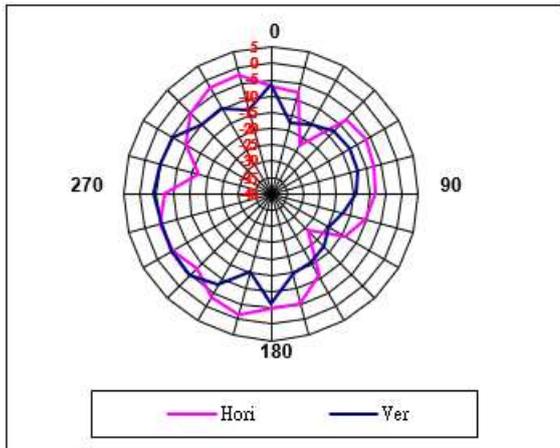
| | |
|-----------------------|---------------|
| Center Frequency | 880MHz |
| Horizontal (dBi) peak | -1.74 |
| Vertical (dBi) peak | -4.36 |

894MHz



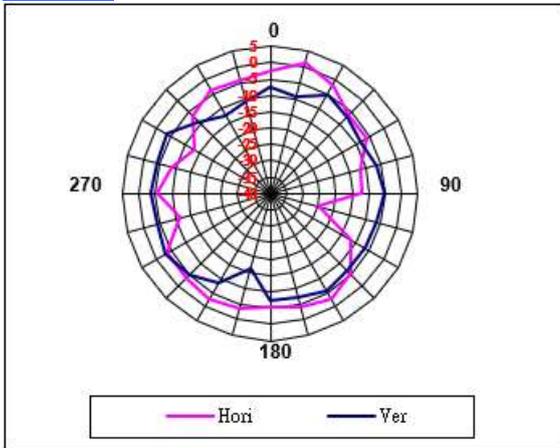
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|-----------------------|---------------|
| Center Frequency | 894MHz |
| Horizontal (dBi) peak | -1.74 |
| Vertical (dBi) peak | -3.97 |

915MHz



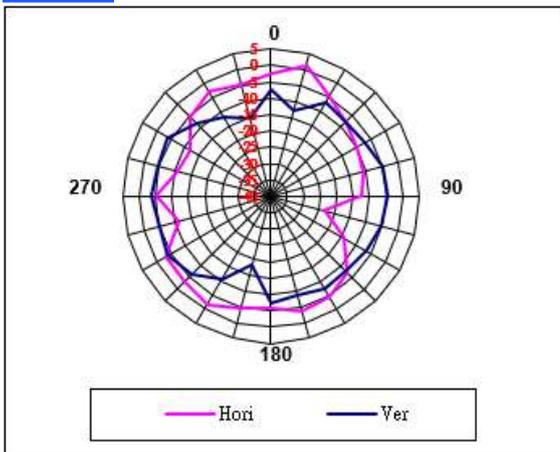
| | |
|-----------------------|---------------|
| Center Frequency | 915MHz |
| Horizontal (dBi) peak | -1.75 |
| Vertical (dBi) peak | -3.98 |

1710MHz



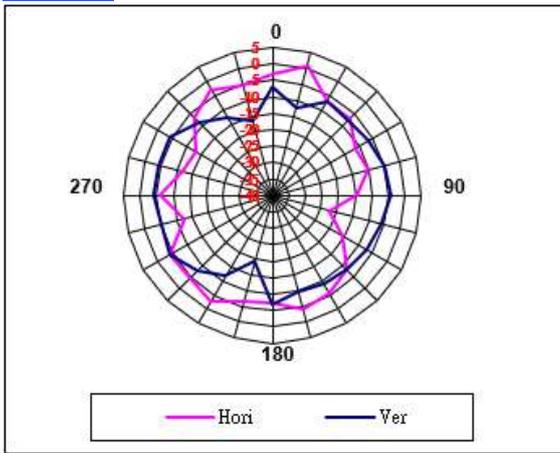
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|-----------------------|----------------|
| Center Frequency | 1710MHz |
| Horizontal (dBi) peak | 1.11 |
| Vertical (dBi) peak | -3.27 |

1750MHz



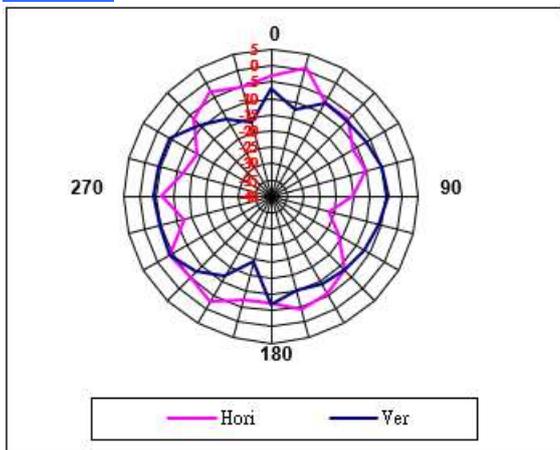
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| Center Frequency | 1750MHz |
| Horizontal (dBi) peak | 1.26 |
| Vertical (dBi) peak | -3.76 |

1780MHz



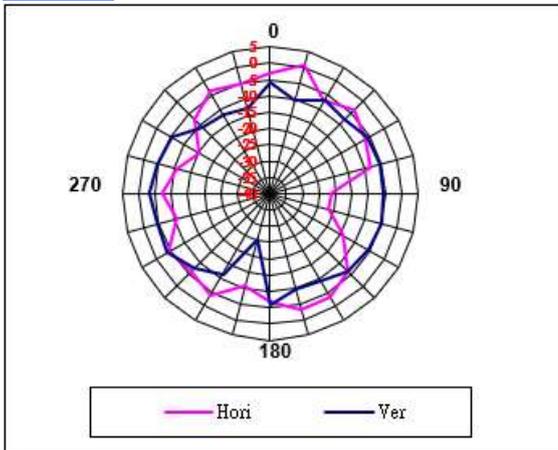
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|-----------------------|----------------|
| Center Frequency | 1780MHz |
| Horizontal (dBi) peak | 0.79 |
| Vertical (dBi) peak | -4.07 |

1785MHz



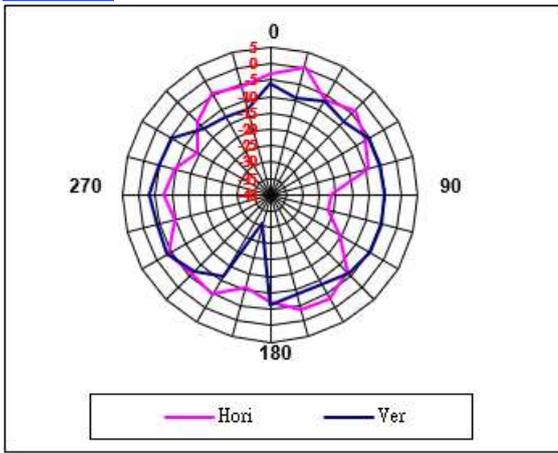
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| Center Frequency | 1785MHz |
| Horizontal (dBi) peak | 0.78 |
| Vertical (dBi) peak | -4.07 |

1880MHz



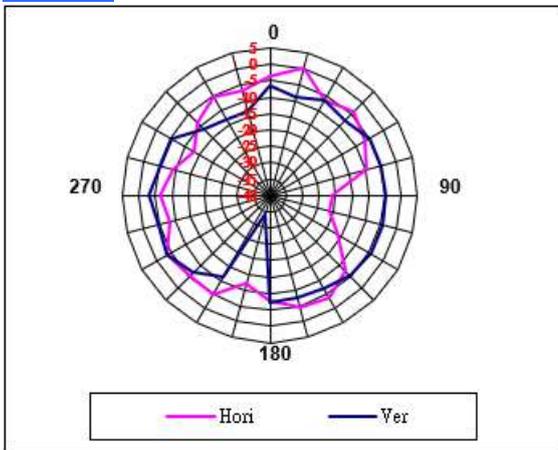
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| Center Frequency | 1880MHz |
| Horizontal (dBi) peak | 0.93 |
| Vertical (dBi) peak | -3.34 |

1900MHz



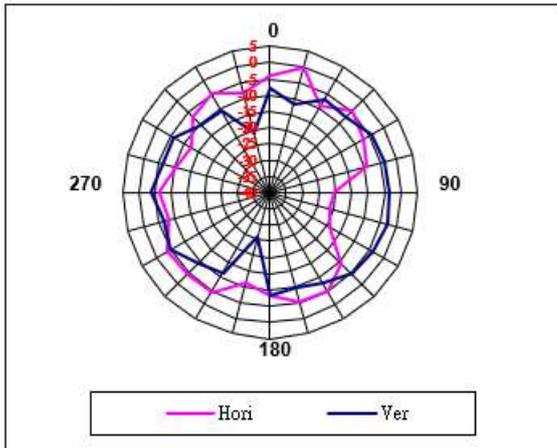
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|-----------------------|----------------|
| Center Frequency | 1900MHz |
| Horizontal (dBi) peak | 0.54 |
| Vertical (dBi) peak | -3.26 |

1920MHz



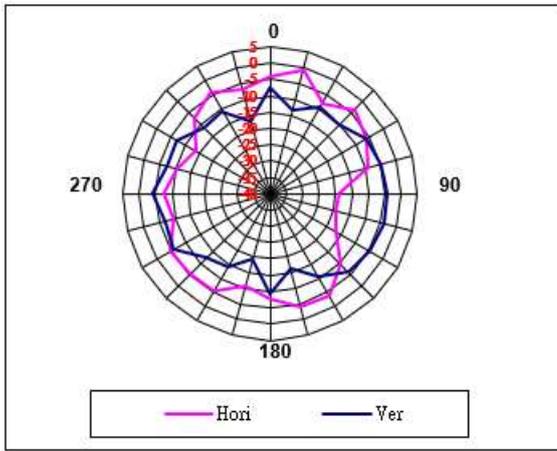
| | |
|-----------------------|----------------|
| Center Frequency | 1920MHz |
| Horizontal (dBi) peak | 0.30 |
| Vertical (dBi) peak | -3.31 |

1950MHz



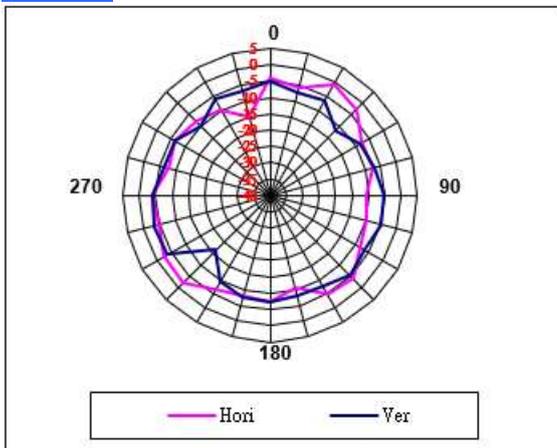
| | |
|-----------------------|----------------|
| Center Frequency | 1950MHz |
| Horizontal (dBi) peak | -0.19 |
| Vertical (dBi) peak | -3.03 |

1980MHz



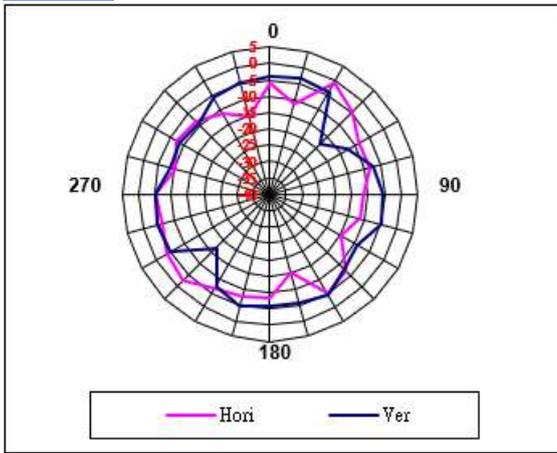
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| Center Frequency | 1980MHz |
| Horizontal (dBi) peak | -0.44 |
| Vertical (dBi) peak | -4.16 |

2496MHz



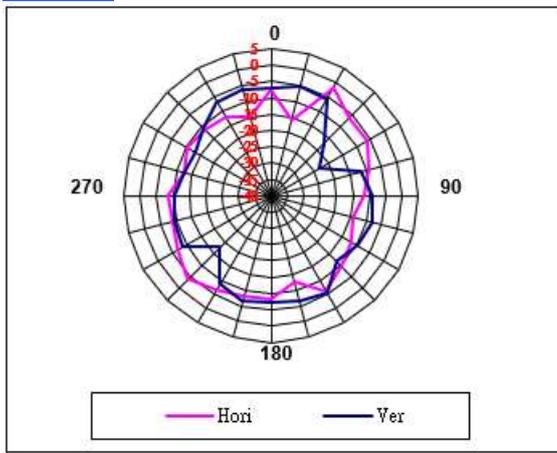
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|-----------------------|----------------|
| Center Frequency | 2496MHz |
| Horizontal (dBi) peak | -0.72 |
| Vertical (dBi) peak | -3.25 |

2595MHz



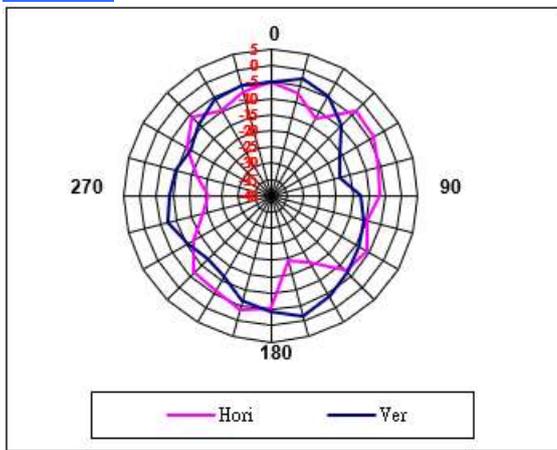
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| Center Frequency | 2595MHz |
| Horizontal (dBi) peak | -0.56 |
| Vertical (dBi) peak | -3.08 |

2690MHz



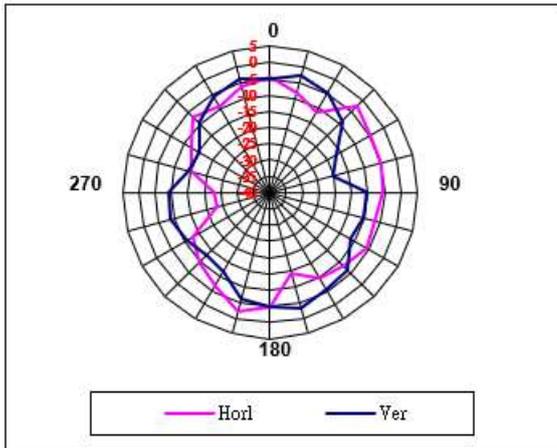
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| Center Frequency | 2690MHz |
| Horizontal (dBi) peak | -1.85 |
| Vertical (dBi) peak | -5.33 |

3300MHz



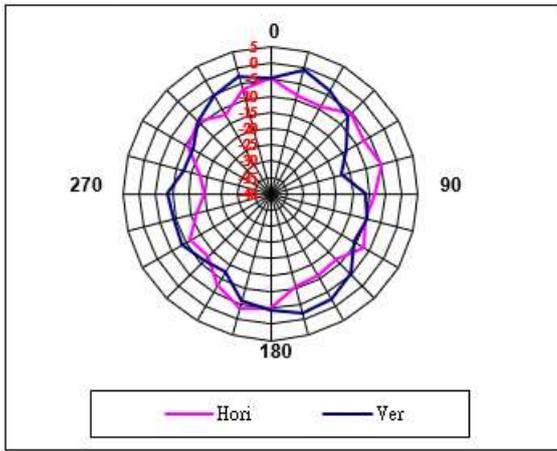
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|-----------------------|----------------|
| Center Frequency | 3300MHz |
| Horizontal (dBi) peak | -2.99 |
| Vertical (dBi) peak | -1.59 |

3400MHz



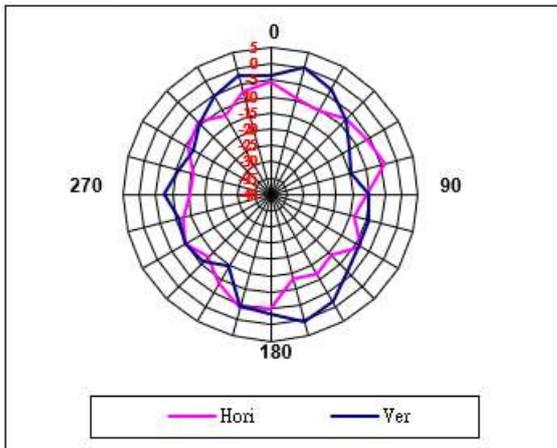
| | |
|-----------------------|----------------|
| Center Frequency | 3400MHz |
| Horizontal (dBi) peak | -2.18 |
| Vertical (dBi) peak | -2.69 |

3500MHz



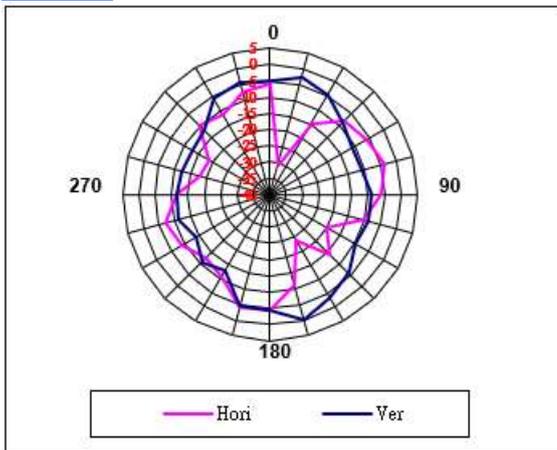
| | |
|-----------------------|----------------|
| Center Frequency | 3500MHz |
| Horizontal (dBi) peak | -3.57 |
| Vertical (dBi) peak | -0.71 |

3600MHz



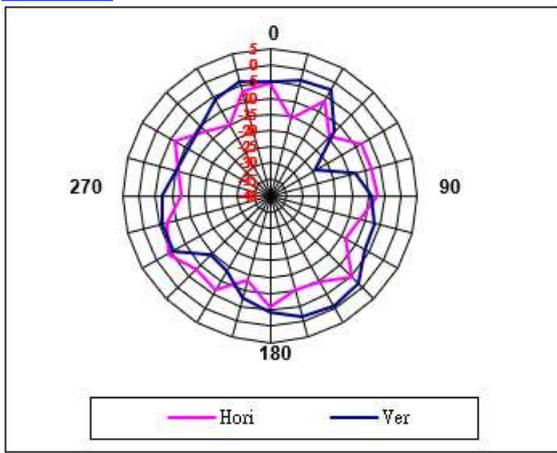
| | |
|-----------------------|----------------|
| Center Frequency | 3600MHz |
| Horizontal (dBi) peak | -4.18 |
| Vertical (dBi) peak | 0.47 |

3750MHz



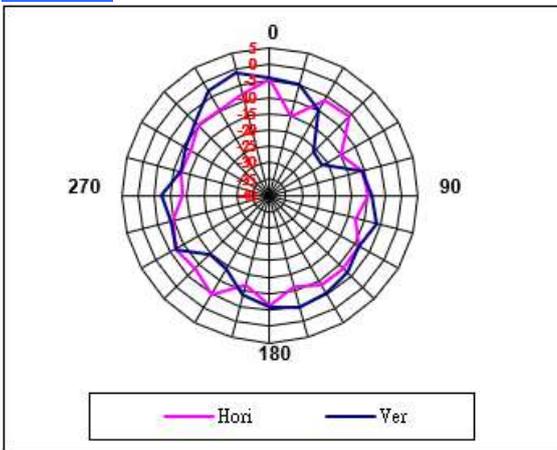
| | |
|-----------------------|----------------|
| Center Frequency | 3750MHz |
| Horizontal (dBi) peak | -3.66 |
| Vertical (dBi) peak | -0.10 |

4200MHz



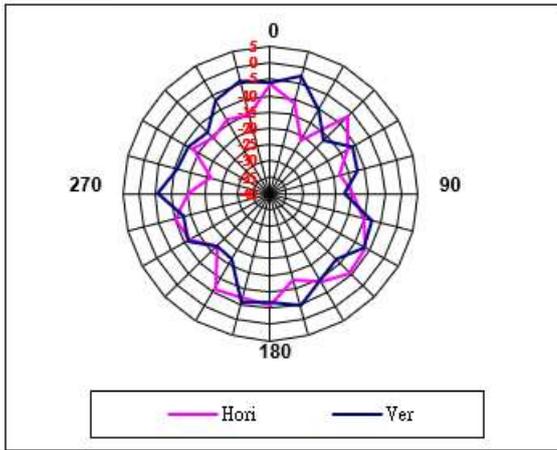
| | |
|-----------------------|----------------|
| Center Frequency | 4200MHz |
| Horizontal (dBi) peak | -4.11 |
| Vertical (dBi) peak | -0.78 |

4400MHz



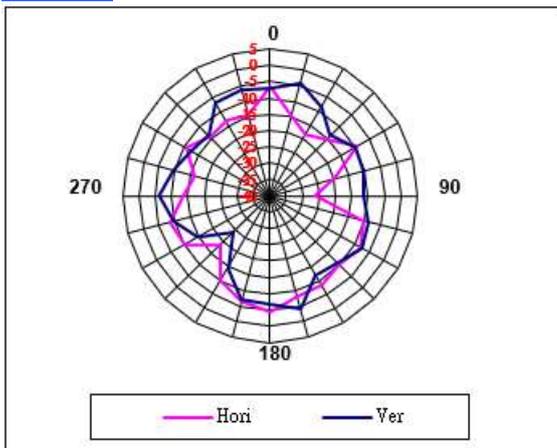
| | |
|-----------------------|----------------|
| Center Frequency | 4400MHz |
| Horizontal (dBi) peak | -4.71 |
| Vertical (dBi) peak | -0.97 |

4800MHz



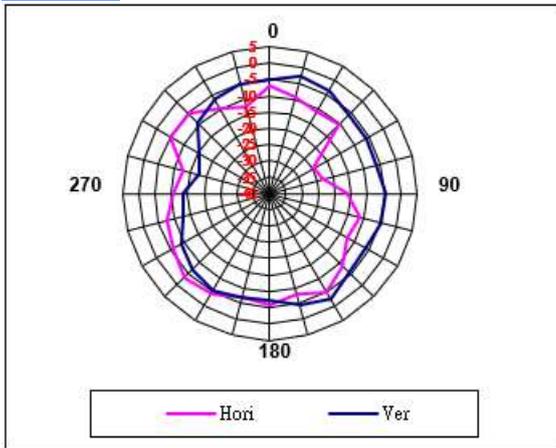
| | |
|-----------------------|----------------|
| Center Frequency | 4800MHz |
| Horizontal (dBi) peak | -5.63 |
| Vertical (dBi) peak | -2.80 |

5000MHz



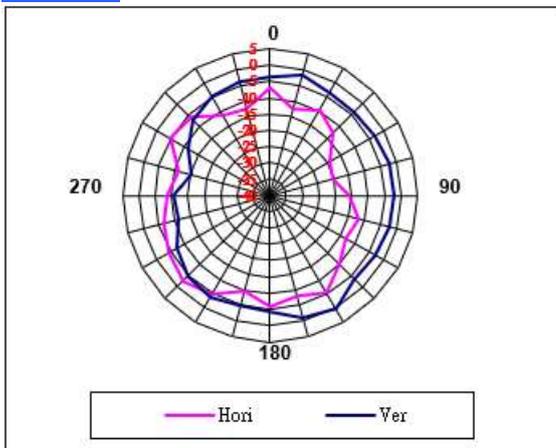
| | |
|-----------------------|----------------|
| Center Frequency | 5000MHz |
| Horizontal (dBi) peak | -4.42 |
| Vertical (dBi) peak | -3.98 |

● **Ant8:**
1710 MHz



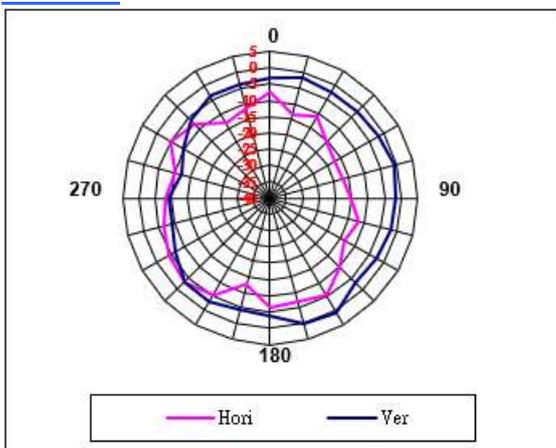
| | |
|-----------------------|----------------|
| Center Frequency | 1710MHz |
| Horizontal (dBi) peak | -3.01 |
| Vertical (dBi) peak | -2.58 |

1750 MHz



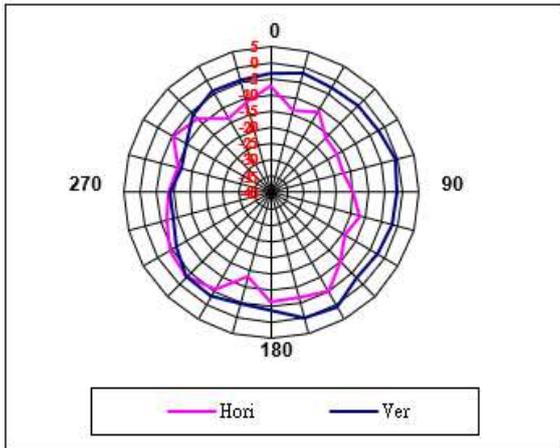
| | |
|-----------------------|----------------|
| Center Frequency | 1750MHz |
| Horizontal (dBi) peak | -2.47 |
| Vertical (dBi) peak | -0.02 |

1780 MHz



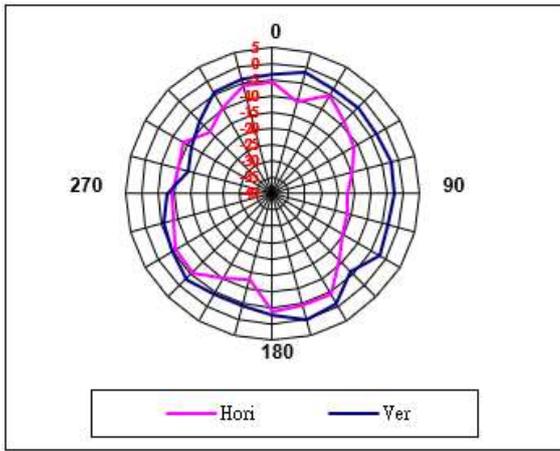
| | |
|-----------------------|----------------|
| Center Frequency | 1780MHz |
| Horizontal (dBi) peak | -3.20 |
| Vertical (dBi) peak | 0.63 |

1785 MHz



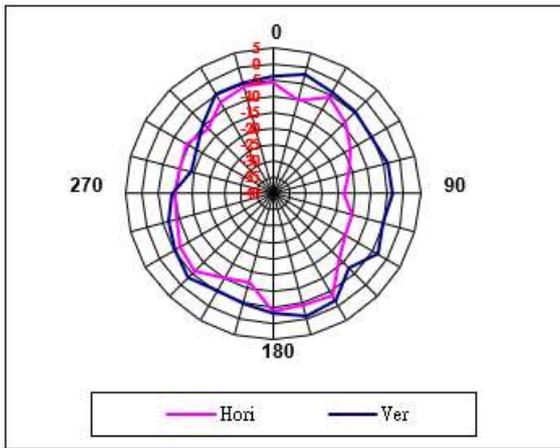
| | |
|-----------------------|----------------|
| Center Frequency | 1785MHz |
| Horizontal (dBi) peak | -3.29 |
| Vertical (dBi) peak | 0.73 |

1880 MHz



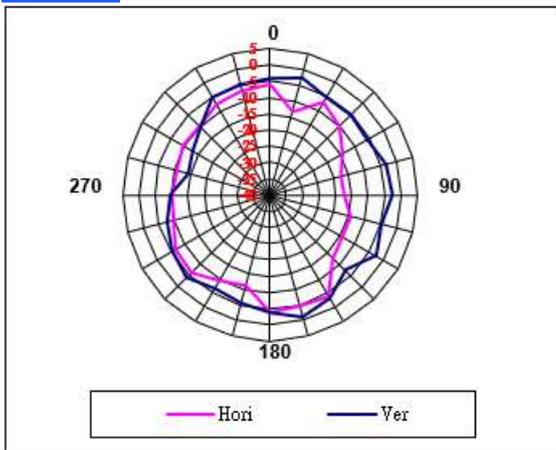
| | |
|-----------------------|----------------|
| Center Frequency | 1880MHz |
| Horizontal (dBi) peak | -3.76 |
| Vertical (dBi) peak | 0.14 |

1900 MHz



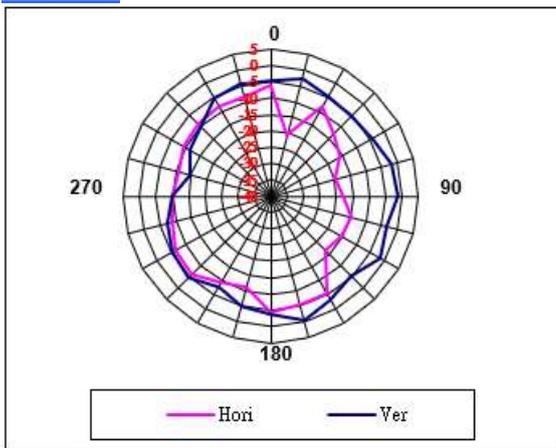
| | |
|-----------------------|----------------|
| Center Frequency | 1900MHz |
| Horizontal (dBi) peak | -3.82 |
| Vertical (dBi) peak | -0.79 |

1920 MHz



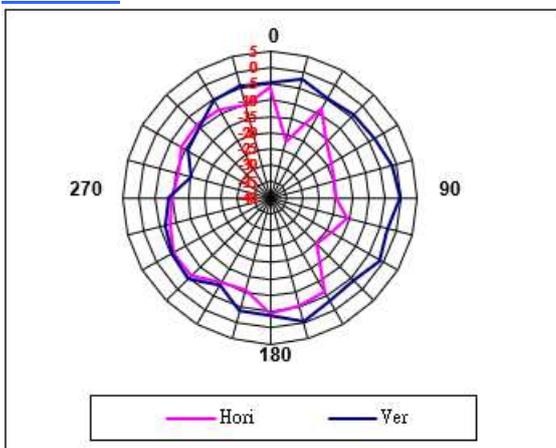
| | |
|-----------------------|----------------|
| Center Frequency | 1920MHz |
| Horizontal (dBi) peak | -3.93 |
| Vertical (dBi) peak | -1.08 |

1950 MHz



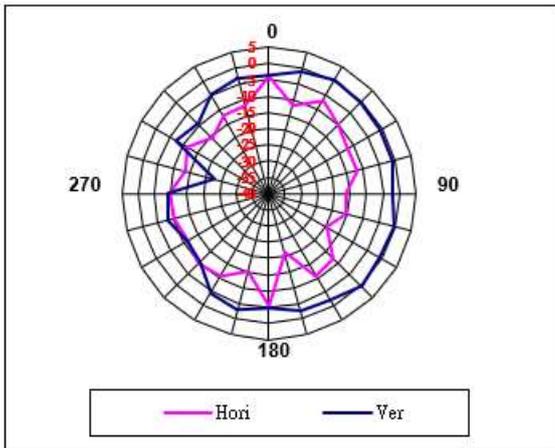
| | |
|-----------------------|----------------|
| Center Frequency | 1950MHz |
| Horizontal (dBi) peak | -4.32 |
| Vertical (dBi) peak | -0.71 |

1980 MHz



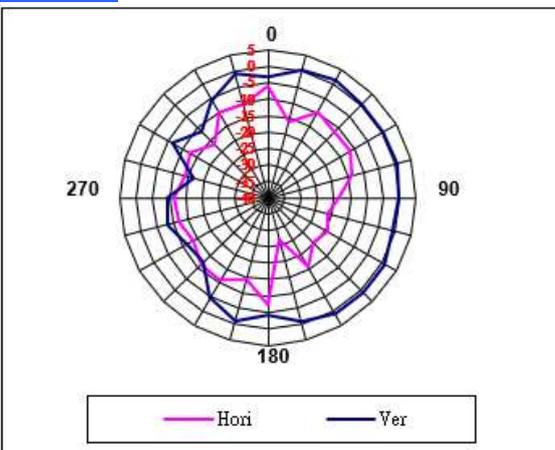
| | |
|-----------------------|----------------|
| Center Frequency | 1980MHz |
| Horizontal (dBi) peak | -4.25 |
| Vertical (dBi) peak | -0.49 |

2496 MHz



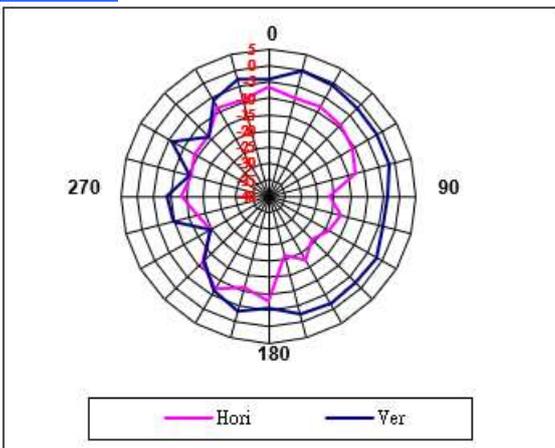
| | |
|-----------------------|----------------|
| Center Frequency | 2496MHz |
| Horizontal (dBi) peak | -4.12 |
| Vertical (dBi) peak | 0.35 |

2595 MHz



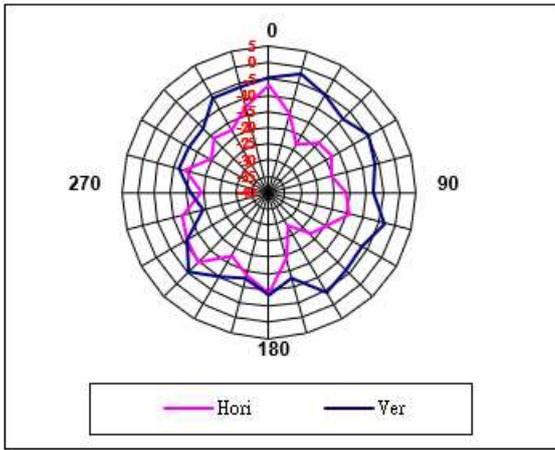
| | |
|-----------------------|----------------|
| Center Frequency | 2595MHz |
| Horizontal (dBi) peak | -5.99 |
| Vertical (dBi) peak | 1.23 |

2690 MHz



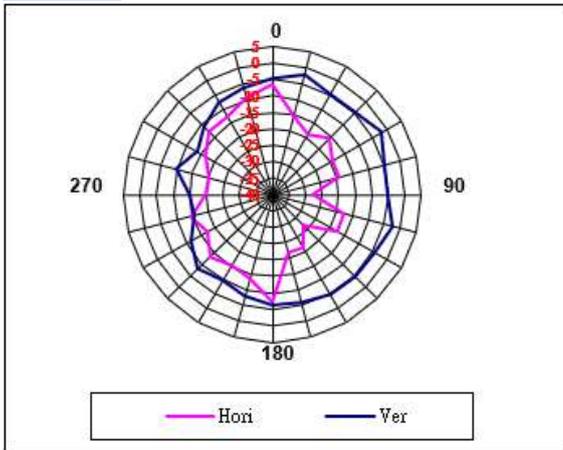
| | |
|-----------------------|----------------|
| Center Frequency | 2690MHz |
| Horizontal (dBi) peak | -6.47 |
| Vertical (dBi) peak | -0.20 |

3300 MHz



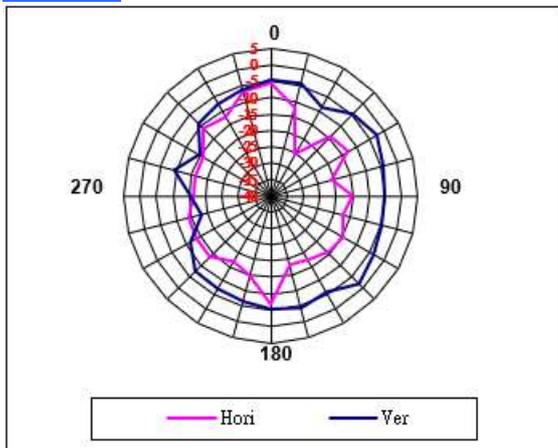
| | |
|-----------------------|----------------|
| Center Frequency | 3300MHz |
| Horizontal (dBi) peak | -6.73 |
| Vertical (dBi) peak | -1.88 |

3400 MHz



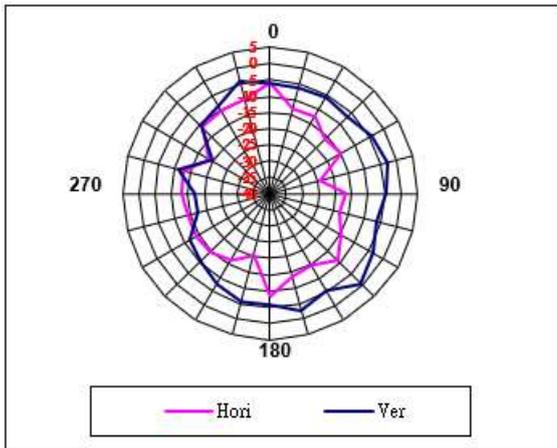
| | |
|-----------------------|----------------|
| Center Frequency | 3400MHz |
| Horizontal (dBi) peak | -6.27 |
| Vertical (dBi) peak | -2.10 |

3500 MHz



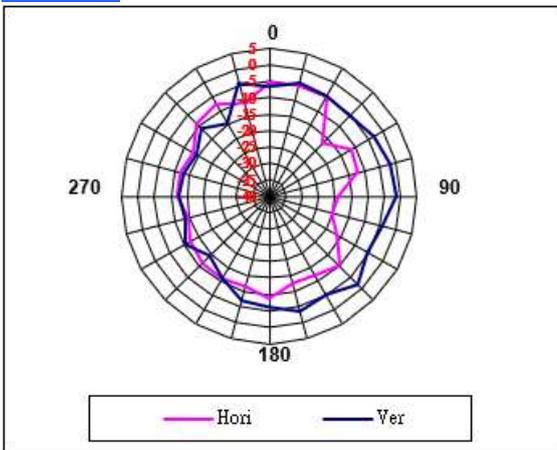
| | |
|-----------------------|----------------|
| Center Frequency | 3500MHz |
| Horizontal (dBi) peak | -5.66 |
| Vertical (dBi) peak | -2.17 |

3600 MHz



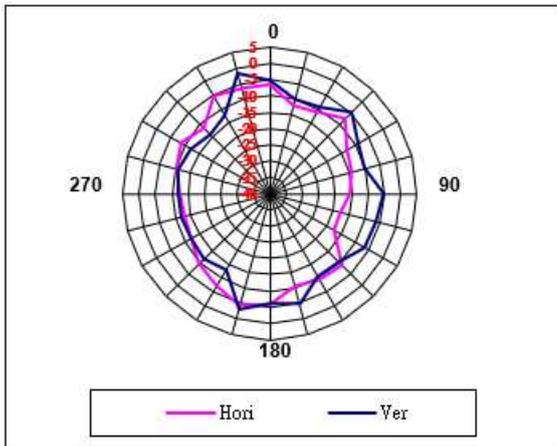
| | |
|-----------------------|----------------|
| Center Frequency | 3600MHz |
| Horizontal (dBi) peak | -5.81 |
| Vertical (dBi) peak | -0.84 |

3750 MHz



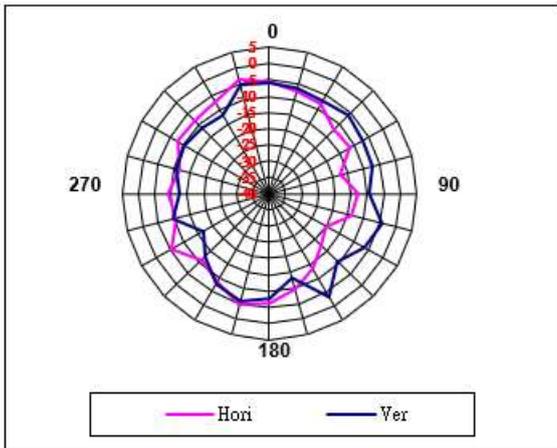
| | |
|-----------------------|----------------|
| Center Frequency | 3750MHz |
| Horizontal (dBi) peak | -5.11 |
| Vertical (dBi) peak | -1.34 |

4200 MHz



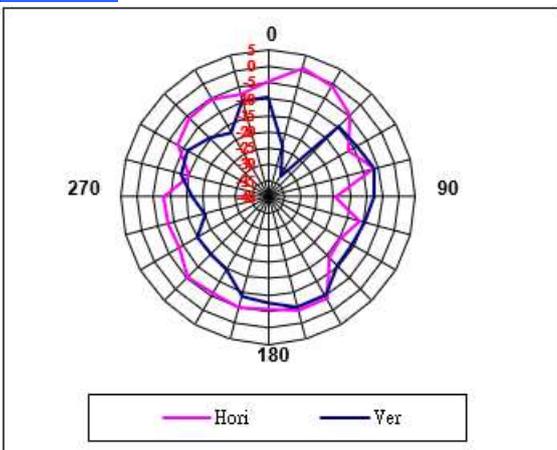
| | |
|-----------------------|----------------|
| Center Frequency | 4200MHz |
| Horizontal (dBi) peak | -4.49 |
| Vertical (dBi) peak | -1.81 |

4400 MHz



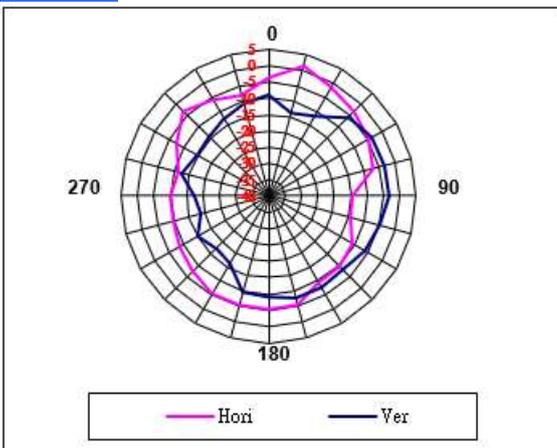
| | |
|-----------------------|----------------|
| Center Frequency | 4400MHz |
| Horizontal (dBi) peak | -3.74 |
| Vertical (dBi) peak | -3.46 |

4800 MHz



| | |
|-----------------------|----------------|
| Center Frequency | 4800MHz |
| Horizontal (dBi) peak | 0.66 |
| Vertical (dBi) peak | -5.14 |

5000 MHz

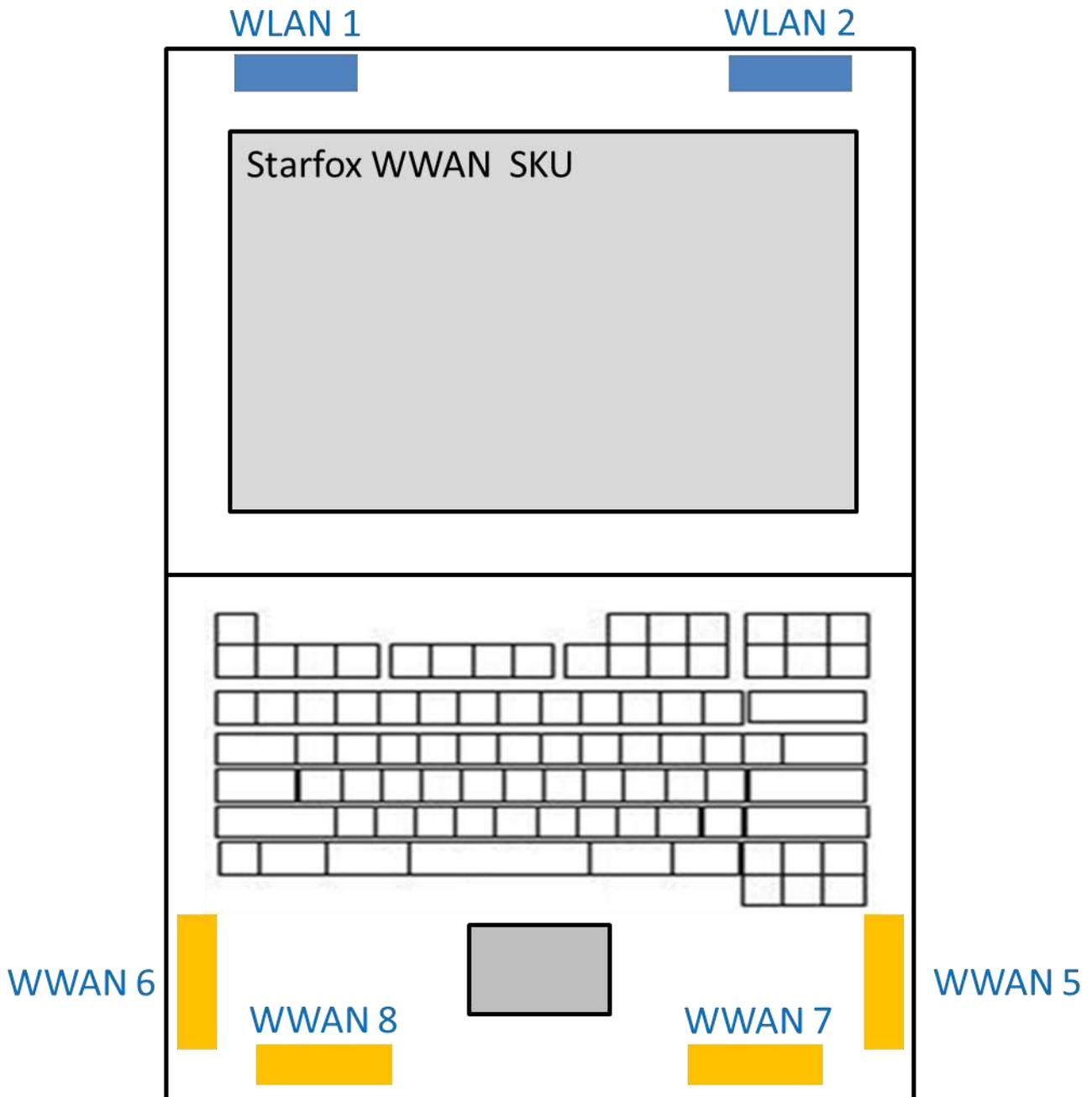


| | |
|-----------------------|----------------|
| Center Frequency | 5000MHz |
| Horizontal (dBi) peak | 1.37 |
| Vertical (dBi) peak | -3.47 |

Section 4. Host Platform Information

OEM / ODM Host platform: Example (Quanta/Rainer 1.0) platform correlated to antenna data

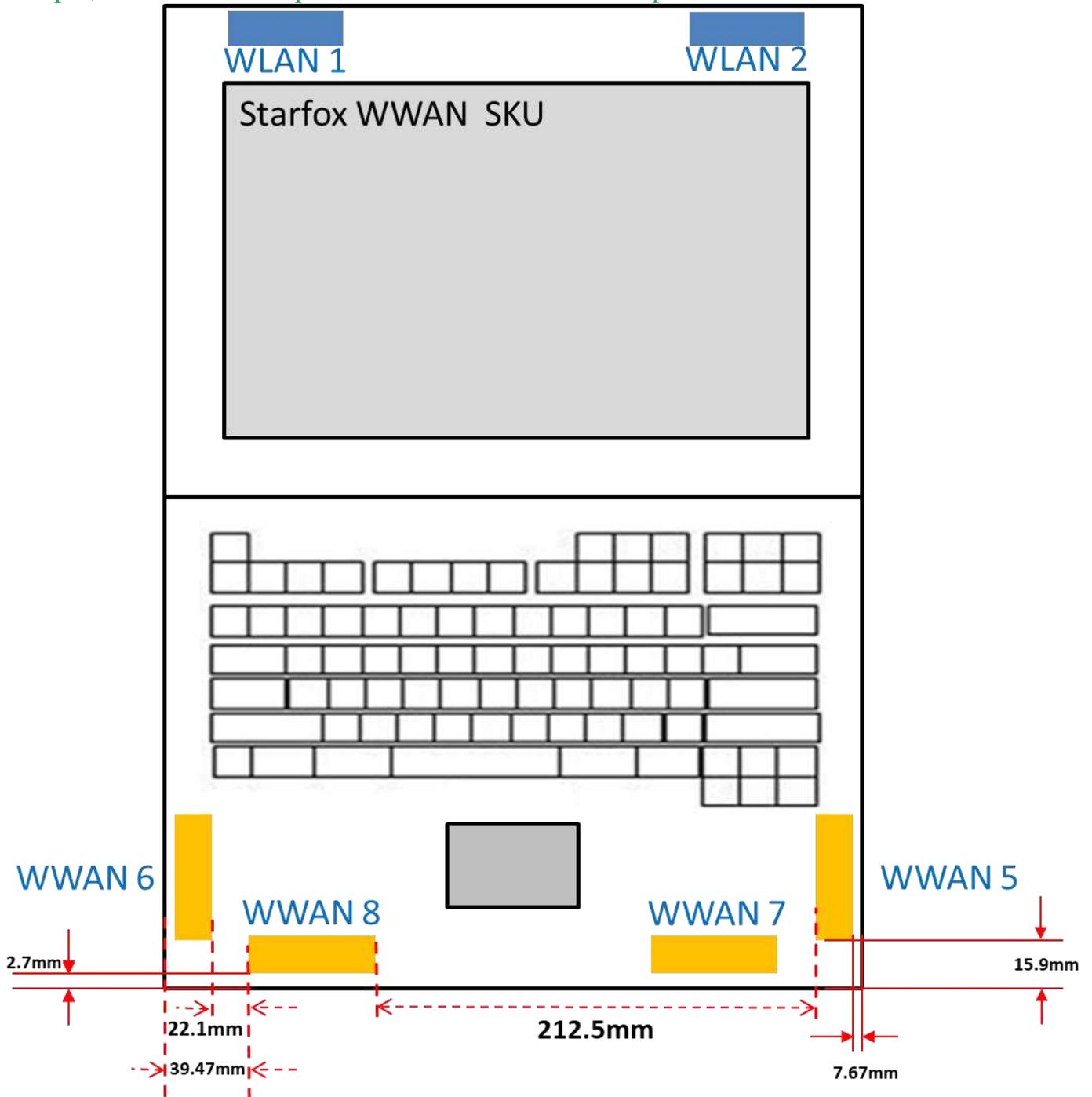
Rating Label Photo:



Section 5. Antenna Host Platform Location Information

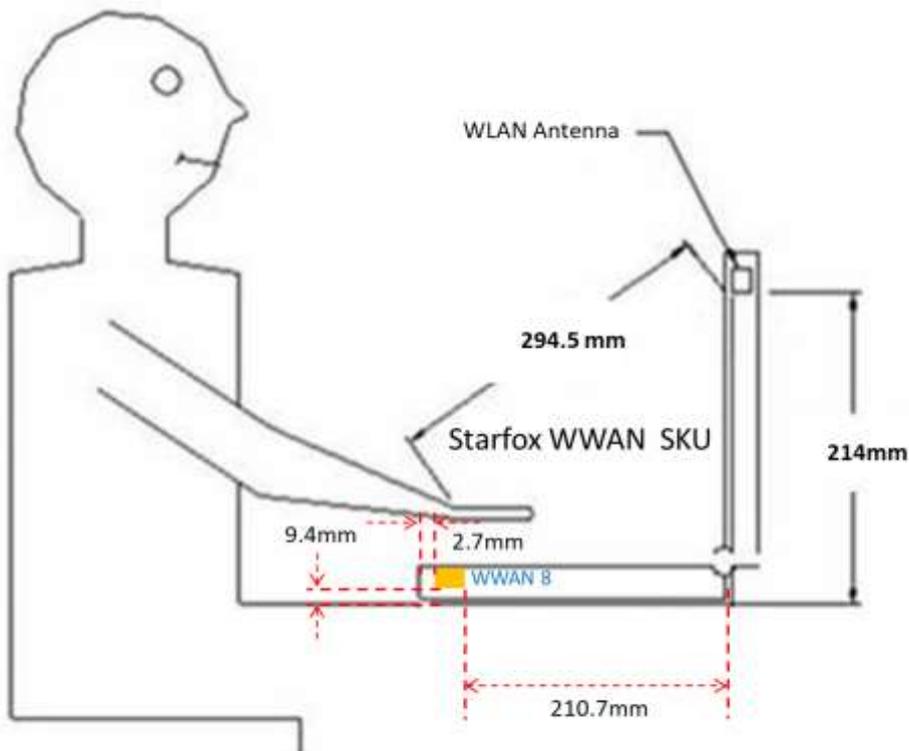
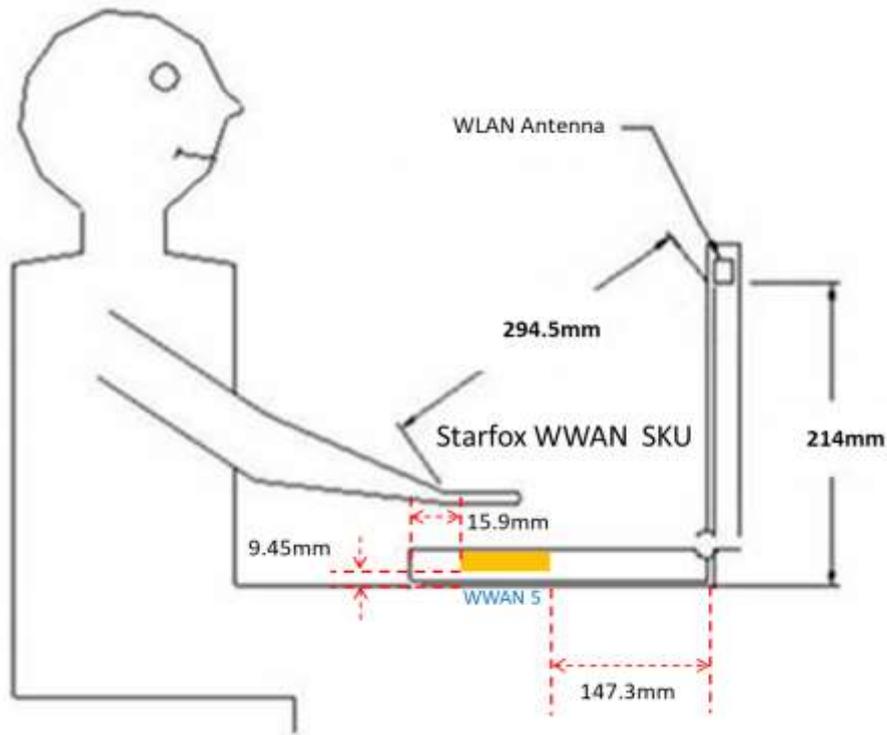
Include a **dimensioned photo(s) or dimensioned drawing(s)** of Ant5, Ant6, Ant7, Ant8 placements (measurements are not required for receive-only antenna).

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 6. 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 (excluding hands, wrist, feet, and ankle). 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.

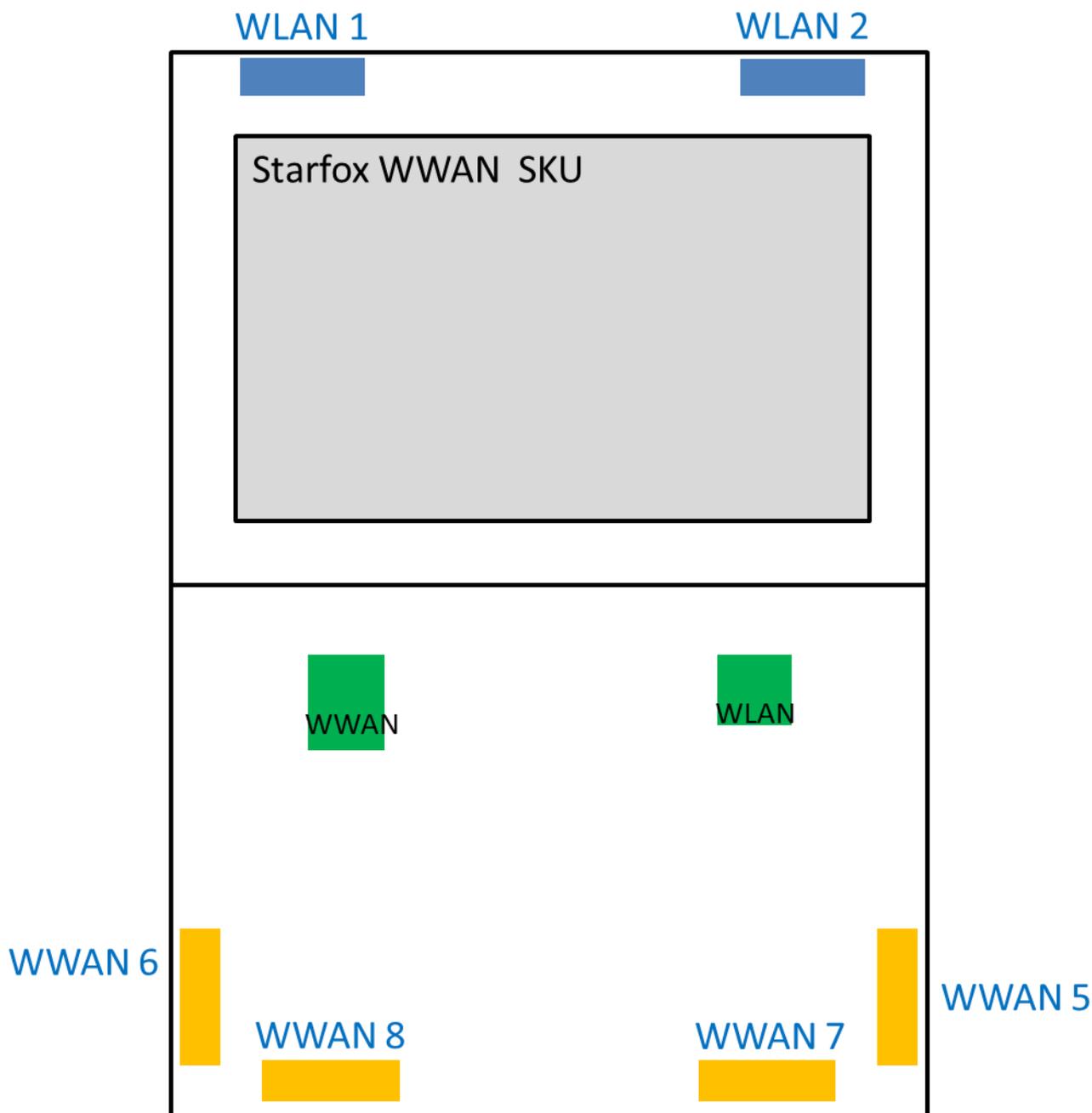


Section 7. Diagram Example of Co-Location Antenna Separation

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,..

Example:

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



Section 8. Local representative contact information

Local representative contact information is required for regulatory support for target countries below.

| | Local company name | Contact name | Phone number | FAX Number | e-Mail Address | Notes |
|--------------|--------------------|--------------|--------------|------------|----------------|---|
| Argentina | | | | | | |
| Azerbaijan | | | | | | |
| Cambodia | | | | | | |
| Indonesia | | | | | | |
| Israel | | | | | | |
| Malaysia | | | | | | |
| Philippines | | | | | | |
| Singapore | | | | | | Telecommunication Equipment Dealer License Required |
| South Africa | | | | | | |
| USA, Canada | | | | | | |
| Vietnam | | | | | | |