



# Aruba AP-655/655A Antenna Test Report

Date : April 14, 2022

Prepared by : Jerry Ko / Jerry Liu

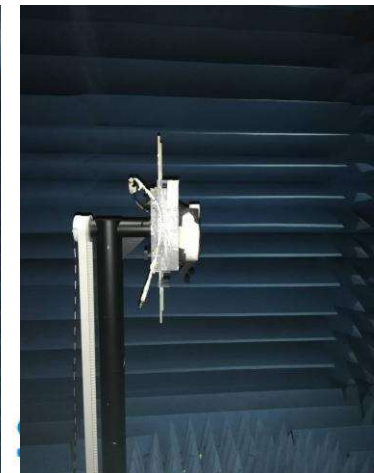
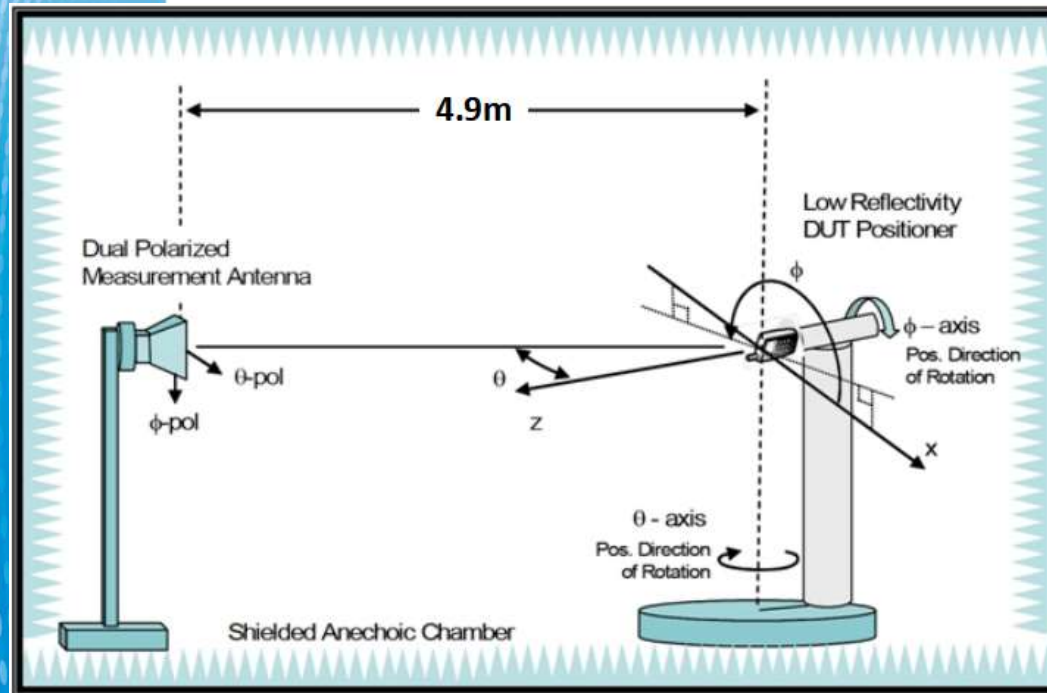


# Test Information

| Item             | Description                                         |
|------------------|-----------------------------------------------------|
| Brand Name       | Aruba                                               |
| Equipment        | Wi-Fi 6E Tri-Band Access Point: APIN0655, APIN0655A |
| Test Location    | 8F, No. 3-1, YuanQu St. Taipei, Taiwan 115 R.O.C.   |
| Test Condition   | Radiation                                           |
| Test Engineer    | Jerry Ko, Sercomm                                   |
| Test Environment | ETS-Lindgren AMS-8500 Antenna Measurement Chamber   |
| Test Date        | Jul. 13, 2021 ~ Jul. 27, 2021                       |

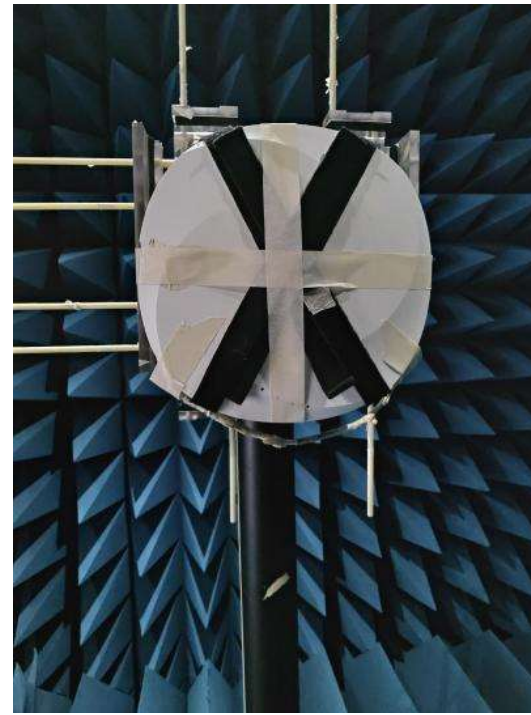
# Test Configuration

ETS-Lindgren AMS-8500 antenna measurement system with a size of  $7.32(L) \times 3.66(W) \times 3.66(H) \text{ m}^3$  is used for antenna performance test, which is based on the great-circle test method defined by CTIA. The multi-axis positioning system (MAPS) rotates the DUT around two orthogonal axes for full spherical coverage.



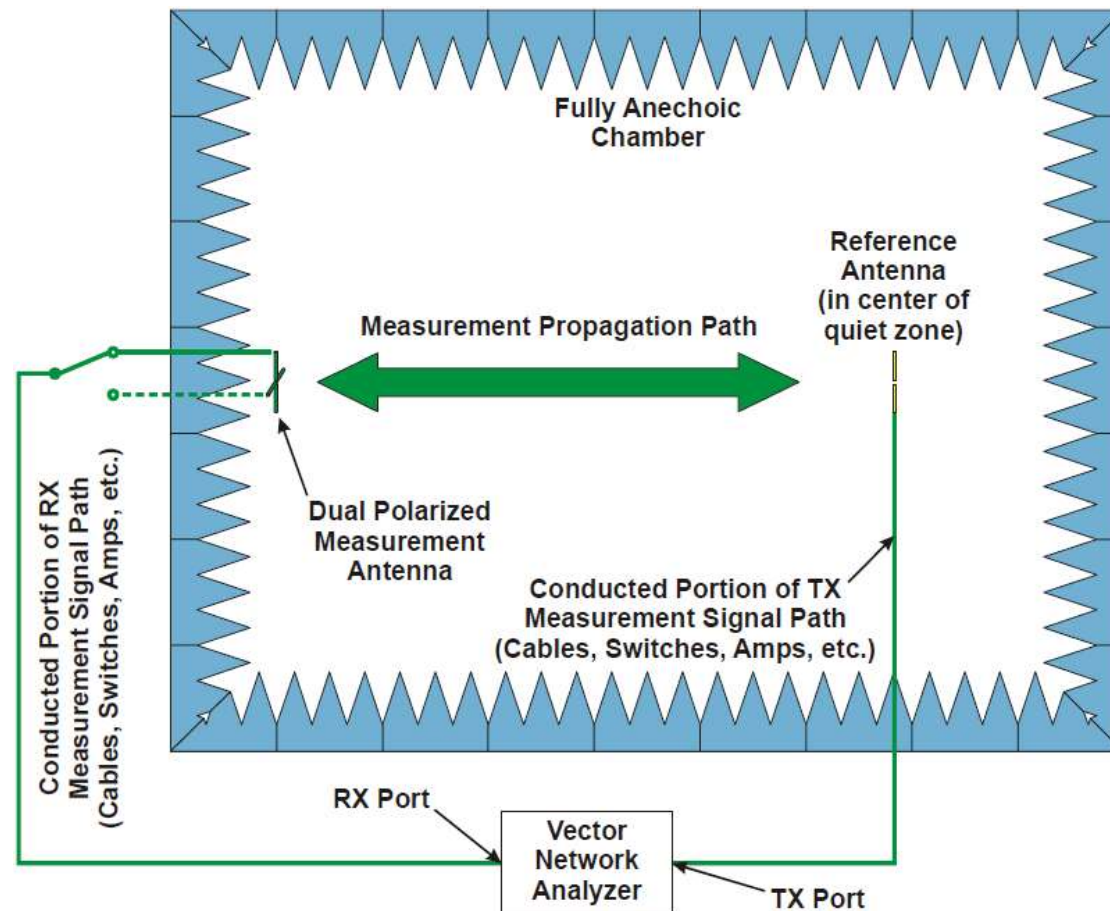
# Test Setup & Procedure

1. Fix the DUT on the dielectric support structure and connect the feeding cable to the antenna used for test
2. Set measurement parameters such as frequency range and sampling angle
3. Perform test and then get far-field data (radiation pattern, gain, efficiency)
4. Repeat test procedure for other antennas



# Test Equipment & Calibration

Network analyzer and reference antennas are used for calibration. Path loss and cable loss for different frequency bands can be checked and calculated.



# Test Equipment & Calibration

| Instrument                           | Brand        | Characteristics        | Model No.  | Serial No.      | Calibration Due Date     |
|--------------------------------------|--------------|------------------------|------------|-----------------|--------------------------|
| Precision Sleeve Dipole              | ETS-Lindgren | 700 MHz ~ 900 MHz      | 3126-700   | 00169715        | May 21, 2022             |
| Precision Sleeve Dipole              | ETS-Lindgren | 900 MHz ~ 1000 MHz     | 3126-900   | 00169592        | May 21, 2022             |
| Precision Sleeve Dipole              | ETS-Lindgren | 1400 MHz ~ 1700 MHz    | 3126-1550  | 00164599        | May 21, 2022             |
| Precision Sleeve Dipole              | ETS-Lindgren | 1700 MHz ~ 2000 MHz    | 3126-1850  | 00169588        | May 21, 2022             |
| Precision Sleeve Dipole              | ETS-Lindgren | 2000 MHz ~ 2300 MHz    | 3126-2150  | 00169593        | May 21, 2022             |
| Precision Sleeve Dipole              | ETS-Lindgren | 2300 MHz ~ 2700 MHz    | 3126-2500  | 00169597        | May 21, 2022             |
| Precision Sleeve Dipole              | ETS-Lindgren | 5000 MHz ~ 6000 MHz    | 3126-5500  | 00169728        | May 21, 2022             |
| Horn Antenna                         | SCHWARZBECK  | 1 GHz ~ 18 GHz         | BBHA 9120D | BBHA 9120D-1294 | Apr. 07, 2023            |
| EMQuest Antenna Measurement Software | ETS-Lindgren | Control chamber system | EMQ-100    | 1437            | Non-Calibration Required |

# Antenna Details

| Ant No.                   | Operating Band                             | Type   | Material | Feeding | Polarization |
|---------------------------|--------------------------------------------|--------|----------|---------|--------------|
| WiFi 2G/5G<br>(Ant 0 )    | 2400 MHz ~ 2500 MHz<br>4900 MHz ~ 5900 MHz | Dipole | PCB      | Cable   | Horizontal   |
| WiFi 2G/5G<br>(Ant 1)     | 2400 MHz ~ 2500 MHz<br>4900 MHz ~ 5900 MHz | Dipole | PCB      | Cable   | Horizontal   |
| WiFi 2G/5G<br>(Ant 2 & 3) | 2400 MHz ~ 2500 MHz<br>4900 MHz ~ 5900 MHz | PIFA   | Metal    | Cable   | Vertical     |

| Ant No.                | Operating Band      | Type   | Material | Feeding | Polarization |
|------------------------|---------------------|--------|----------|---------|--------------|
| WiFi 6G<br>(Ant 1 & 2) | 5900 MHz ~ 7200 MHz | PIFA   | Metal    | Cable   | Vertical     |
| WiFi 6G<br>(Ant 0 & 3) | 5900 MHz ~ 7200 MHz | Dipole | PCB      | Cable   | Horizontal   |
| BLE Ant                | 2400 MHz ~ 2500 MHz | PIFA   | Metal    | Cable   | Vertical     |
| GPS Ant                | 1575.42 MHz         | PIFA   | Metal    | Cable   | Vertical     |

# Result Summary - Gain & Efficiency Table (1/2)

| WiFi 2/5G_ANT0  |                 |                |
|-----------------|-----------------|----------------|
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
| 2400            | 4.8             | 67             |
| 2450            | 4.8             | 70             |
| 2500            | 4.0             | 62             |
| 4900            | 4.5             | 70             |
| 5500            | 4.9             | 65             |
| 5900            | 5.3             | 67             |

| WiFi 2/5G_ANT1  |                 |                |
|-----------------|-----------------|----------------|
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
| 2400            | 4.1             | 62             |
| 2450            | 4.7             | 73             |
| 2500            | 4.0             | 64             |
| 4900            | 4.5             | 70             |
| 5500            | 4.8             | 72             |
| 5900            | 4.3             | 65             |

| WiFi 2/5G_ANT2  |                 |                |
|-----------------|-----------------|----------------|
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
| 2400            | 4.0             | 67             |
| 2450            | 4.4             | 74             |
| 2500            | 4.7             | 72             |
| 4900            | 4.2             | 70             |
| 5500            | 3.8             | 67             |
| 5900            | 3.3             | 65             |

| WiFi 2/5G_ANT3  |                 |                |
|-----------------|-----------------|----------------|
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
| 2400            | 3.4             | 70             |
| 2450            | 3.8             | 77             |
| 2500            | 3.6             | 74             |
| 4900            | 4.5             | 76             |
| 5500            | 3.7             | 72             |
| 5900            | 4.3             | 68             |

## Result Summary - Gain & Efficiency Table (2/2)

| WiFi 6G_ANT0    |                 |                |
|-----------------|-----------------|----------------|
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
| 5900            | 3.3             | 66             |
| 6500            | 3.8             | 77             |
| 7200            | 4.1             | 73             |

| WiFi 6G_ANT1    |                 |                |
|-----------------|-----------------|----------------|
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
| 5900            | 4.4             | 73             |
| 6500            | 4.6             | 70             |
| 7200            | 5.4             | 69             |

| WiFi 6G_ANT2    |                 |                |
|-----------------|-----------------|----------------|
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
| 5900            | 4.7             | 64             |
| 6500            | 5.0             | 67             |
| 7200            | 5.1             | 70             |

| WiFi 6G_ANT3    |                 |                |
|-----------------|-----------------|----------------|
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
| 5900            | 3.2             | 69             |
| 6500            | 3.7             | 74             |
| 7200            | 4.0             | 69             |

| BLE_ANT         |                 |                |
|-----------------|-----------------|----------------|
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
| 2400            | 3.2             | 67             |
| 2450            | 3.6             | 75             |
| 2500            | 3.3             | 71             |

| GPS_ANT         |                 |                |
|-----------------|-----------------|----------------|
| Frequency (MHz) | Peak Gain (dBi) | Efficiency (%) |
| 1575.42         | 3.1             | 66             |

## Result Summary - Uncorrelated Gain & Correlated Gain

| Frequency (MHz) | Uncorrelated Gain (dBi) | Correlated Gain (dBi) |
|-----------------|-------------------------|-----------------------|
| 2400            | 2.88                    | 5.81                  |
| 2450            | 3.26                    | 6.23                  |
| 2500            | 2.7                     | 5.62                  |

| Frequency (MHz) | Uncorrelated Gain (dBi) | Correlated Gain (dBi) |
|-----------------|-------------------------|-----------------------|
| 4900            | 2.57                    | 5.5                   |
| 5500            | 2.75                    | 5.54                  |
| 5900            | 2.88                    | 5.6                   |

| Frequency (MHz) | Uncorrelated Gain (dBi) | Correlated Gain (dBi) |
|-----------------|-------------------------|-----------------------|
| 5900            | 3.13                    | 6.13                  |
| 6500            | 3.06                    | 5.99                  |
| 7200            | 3.97                    | 6.97                  |

Correlated gain values generated by first generating the correlated gains of the co-pol pairs  $[10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]]$  using the spatial gain data. The results were then summed  $[10\log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N_{ANT}]]$ .

# Calculations (1/3)

Because the antennas are fixed in location within the device the directional antenna gain for MIMO is calculated over a sphere using the raw spatial data taken at 5 degree steps of theta and phi for each antenna using the equations from KDB 662911 D01. The raw antenna data is located in the appendix of this report.

The uncorrelated antenna gain was calculated using KDB 662911 D01, F(2)(d)(ii)

The uncorrelated gain was calculated for each point in the spatial data, and the highest value reported.

## **2.4GHz uncorrelated calculation:**

Maximum uncorrelated gain: 3.26dBi

$$= 10 \cdot \log(((10^{(G0/10)}) + (10^{(G1/10)}) + (10^{(G2/10)}) + (10^{(G3/10)})) / 4)$$
$$= 10 \cdot \log(((10^{(2.4/10)}) + (10^{(3.81/10)}) + (10^{(4.42/10)}) + (10^{(1.92/10)})) / 4)$$

This occurs at: 2450MHz, phi 90/theta 45

## **5GHz uncorrelated calculation:**

Maximum uncorrelated gain: 2.88dBi

$$= 10 \cdot \log(((10^{(G0/10)}) + (10^{(G1/10)}) + (10^{(G2/10)}) + (10^{(G3/10)})) / 4)$$
$$= 10 \cdot \log(((10^{(5.34/10)}) + (10^{(0.59/10)}) + (10^{(-0.7/10)}) + (10^{(3.96/10)})) / 4)$$

This occurs at: 5900MHz, phi 25/theta 45

## **6GHz uncorrelated calculations:**

Maximum uncorrelated gain: 3.97dBi

$$= 10 \cdot \log(((10^{(G0/10)}) + (10^{(G1/10)}) + (10^{(G2/10)}) + (10^{(G3/10)})) / 4)$$
$$= 10 \cdot \log(((10^{(2.38/10)}) + (10^{(4.73/10)}) + (10^{(5.07/10)}) + (10^{(3.13/10)})) / 4)$$

This occurs at: 7200MHz: phi 300/theta 75

## Calculations (2/3)

The system has four antennas split into two pairs. Within each pair the two antennas are co-polarized, but cross polarized to the other pair. The correlated gain is therefore calculated by determining the correlated gain separately for each pair and then combining the effective gains of the two cross-polarized pairs using the equations for non-correlated antennas. This is explained in the OET presentation at TCBC Workshop April 2016, slide 14 of “Directional Gain and EIRP Calculations for Transmitters with Multiple Outputs”.

For 2.4 and 5GHz, Ant0 and Ant1 are co-polarized (horizontal), Ant2 and Ant3 are co-polarized (vertical).

For 6GHz, Ant1 and Ant2 are co-polarized (vertical), Ant0 and Ant3 are co-polarized (horizontal).

The correlated gain was calculated using the following steps:

1. For the correlated gain the equation F(2)(d)(i) from KDB 662911 D01 is applied on a spatial basis (i.e. at each theta/phi) to determine the effective gain for each pair of co-polarized antennas.
2. The two gains are then combined (again, on a spatial basis at each theta-phi) using the formula for non-correlated transmissions , F(2)(d)(ii) from KDB 662911 D01

### **2.4GHz correlated calculation:**

$$\begin{aligned} \text{Maximum correlated gain: } & 6.23\text{dBi} \\ &= 10 \cdot \log\left(\frac{(10^{(2G\_V/10)}) + (10^{(2G\_H/10)})}{2}\right) \\ &= 10 \cdot \log\left(\frac{(10^{(6.07/10)}) + (10^{(6.38/10)})}{2}\right) \end{aligned}$$

$$\begin{aligned} 2G\_V &= \text{correlated gain of vertical antenna pairs} = 6.07\text{dBi} \\ &= 10 \cdot \log\left(\frac{(10^{(G2/20)}) + (10^{(G3/20)})^2}{2}\right) \\ &= 10 \cdot \log\left(\frac{(10^{(3.53/20)}) + (10^{(2.58/20)})^2}{2}\right) \end{aligned}$$

$$\begin{aligned} 2G\_H &= \text{correlated gain of horizontal antenna pairs} = 6.38\text{dBi} \\ &= 10 \cdot \log\left(\frac{(10^{(G0/20)}) + (10^{(G1/20)})^2}{2}\right) \\ &= 10 \cdot \log\left(\frac{(10^{(4.22/20)}) + (10^{(2.44/20)})^2}{2}\right) \end{aligned}$$

## Calculations (3/3)

### 5GHz correlated calculation:

Maximum correlated gain: 5.60dBi  
=  $10 \cdot \log(((10^{(5G\_V/10)}) + (10^{(5G\_H/10)}))/2)$   
=  $10 \cdot \log(((10^{(4.77/10)}) + (10^{(6.29/10)}))/2)$

5G\_V = correlated gain of vertical antenna pairs = 4.77dBi

=  $10 \cdot \log(((10^{(G2/20)}) + (10^{(G3/20)}))^2/2)$   
=  $10 \cdot \log(((10^{(-0.7/20)}) + (10^{(3.69/20)}))^2/2)$

5G\_H = correlated gain of vertical antenna pairs = 6.29dBi

=  $10 \cdot \log(((10^{(G0/20)}) + (10^{(G1/20)}))^2/2)$   
=  $10 \cdot \log(((10^{(5.34/20)}) + (10^{(0.59/20)}))^2/2)$

This occurs at: 5900MHz: phi 25/theta 45

### 6GHz correlated calculation:

Maximum correlated gain: 6.97dBi  
=  $10 \cdot \log(((10^{(6G\_V/10)}) + (10^{(6G\_H/10)}))/2)$   
=  $10 \cdot \log(((10^{(7.91/10)}) + (10^{(5.77/10)}))/2)$

6G\_V = correlated gain of vertical antenna pairs = 7.91dBi

=  $10 \cdot \log(((10^{(G1/20)}) + (10^{(G2/20)}))^2/2)$   
=  $10 \cdot \log(((10^{(4.73/20)}) + (10^{(5.07/20)}))^2/2)$

6G\_H = correlated gain of vertical antenna pairs = 5.77dBi

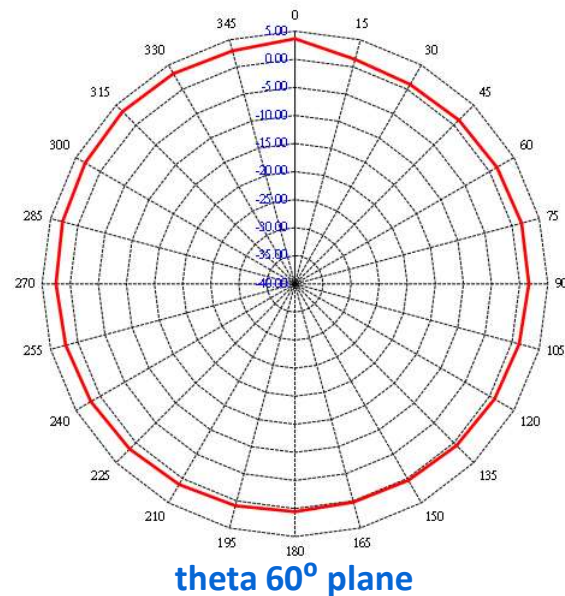
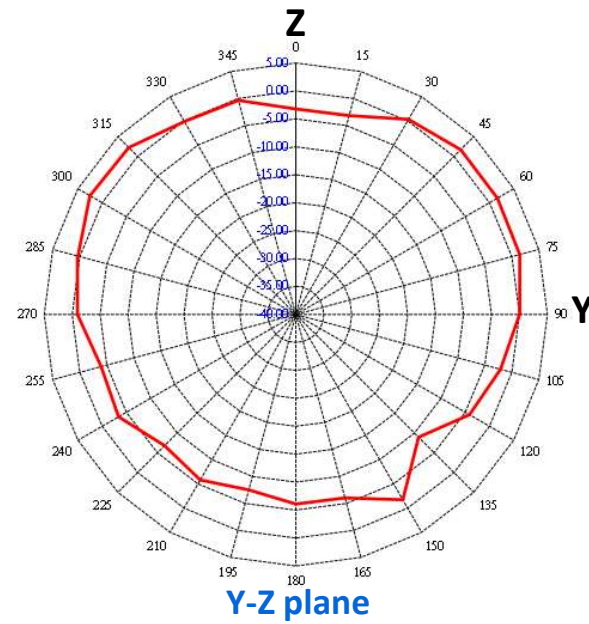
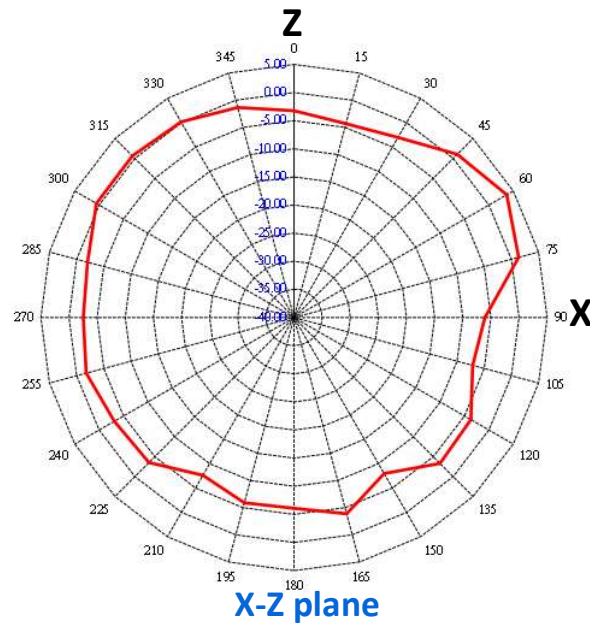
=  $10 \cdot \log(((10^{(G0/20)}) + (10^{(G3/20)}))^2/2)$   
=  $10 \cdot \log(((10^{(2.38/20)}) + (10^{(3.13/20)}))^2/2)$

This occurs at: 7200MHz: phi 300/theta 75

# *Appendix*

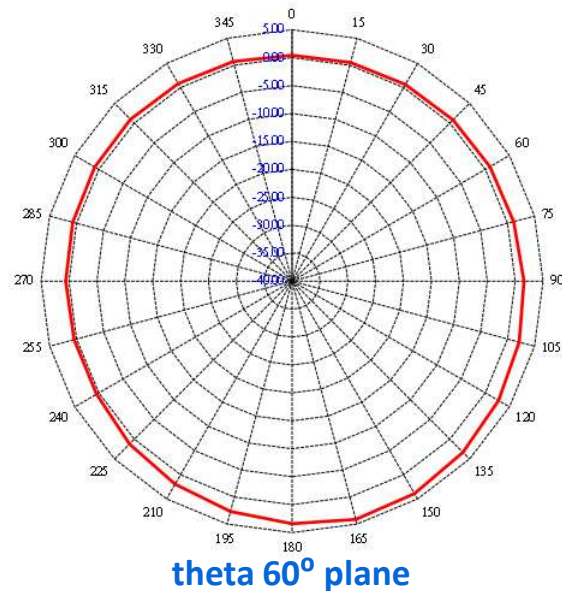
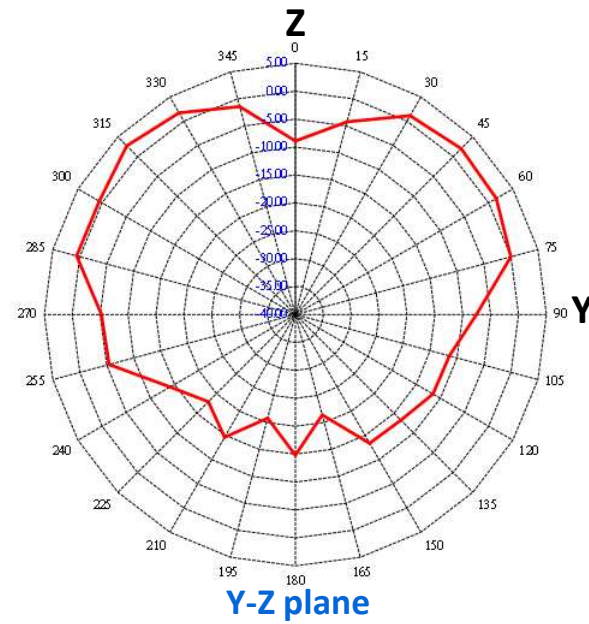
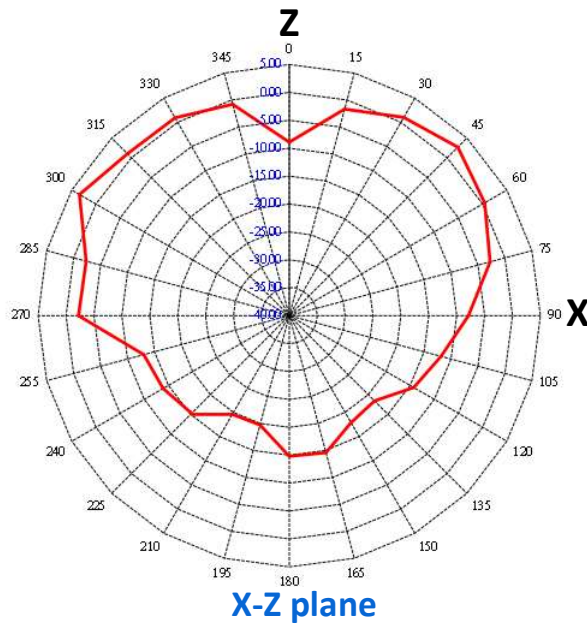
# 2D Radiation Pattern – WiFi 2/5G\_ANT3 @2.4GHz

|                                             |    |
|---------------------------------------------|----|
| Down Tilt Angle<br>From Ceiling<br>(degree) | 30 |
| Gain Flatness<br>(dB)                       | 5  |



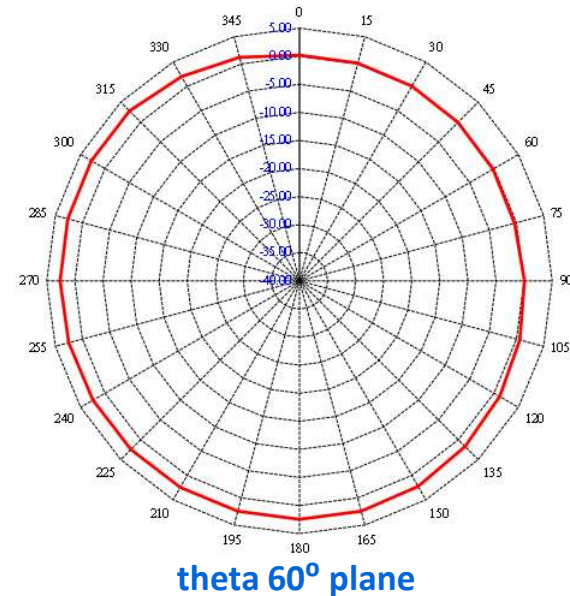
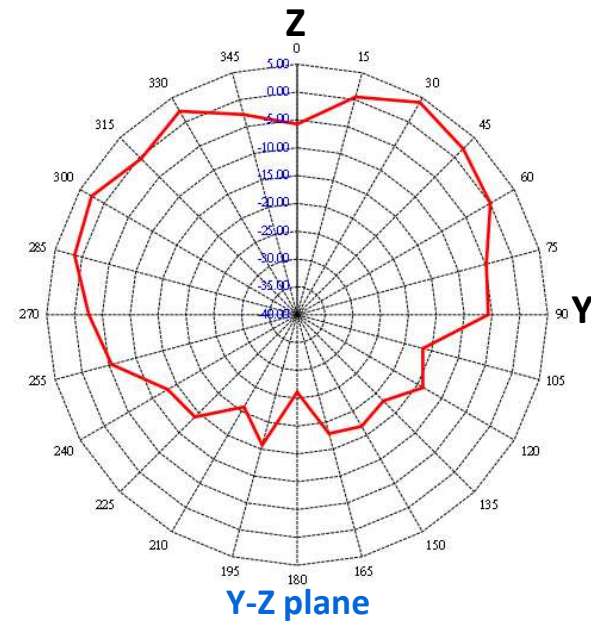
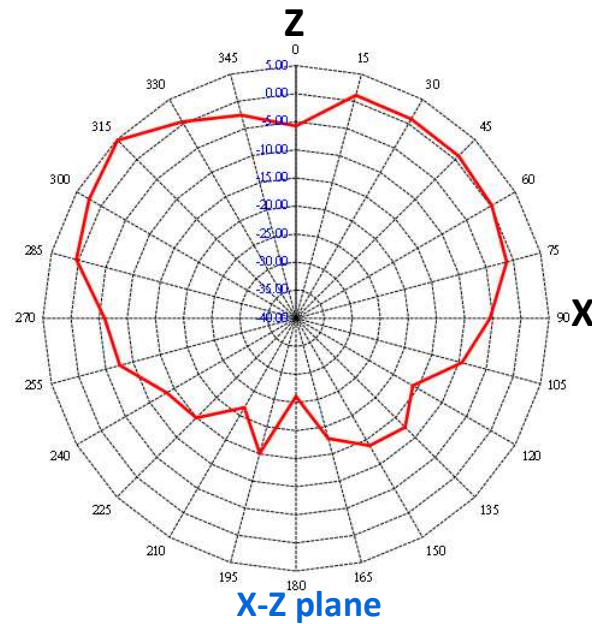
# 2D Radiation Pattern – WiFi 2/5G\_ANT0 @5GHz

|                                             |    |
|---------------------------------------------|----|
| Down Tilt Angle<br>From Ceiling<br>(degree) | 30 |
| Gain Flatness<br>(dB)                       | 5  |



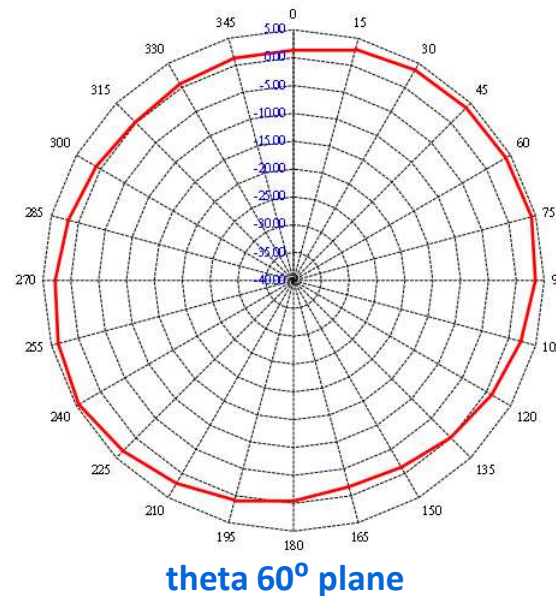
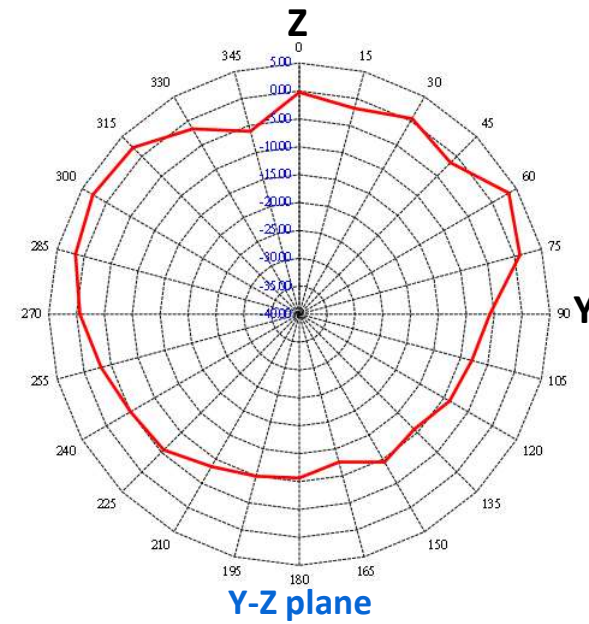
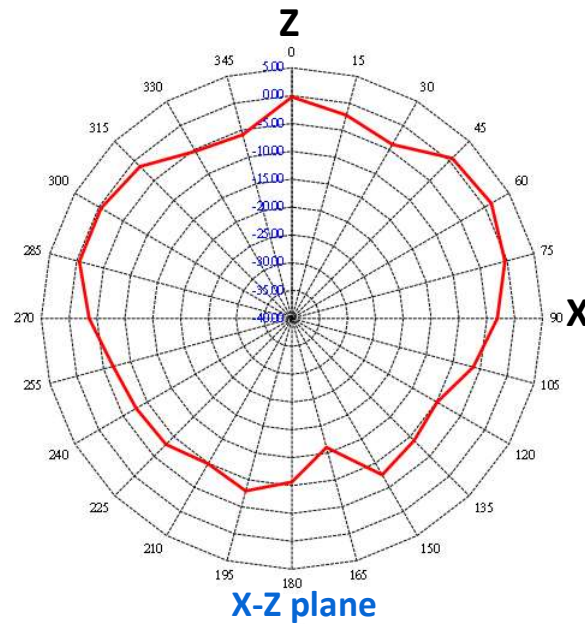
# 2D Radiation Pattern – WiFi 2/5G\_ANT1 @5GHz

|                                             |    |
|---------------------------------------------|----|
| Down Tilt Angle<br>From Ceiling<br>(degree) | 30 |
| Gain Flatness<br>(dB)                       | 5  |



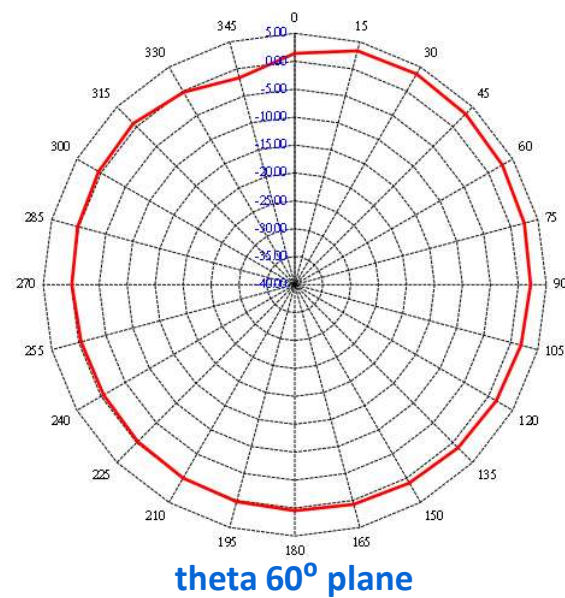
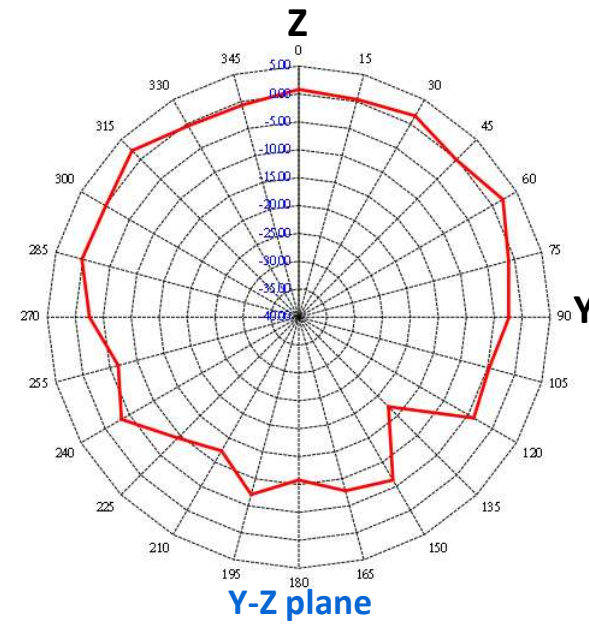
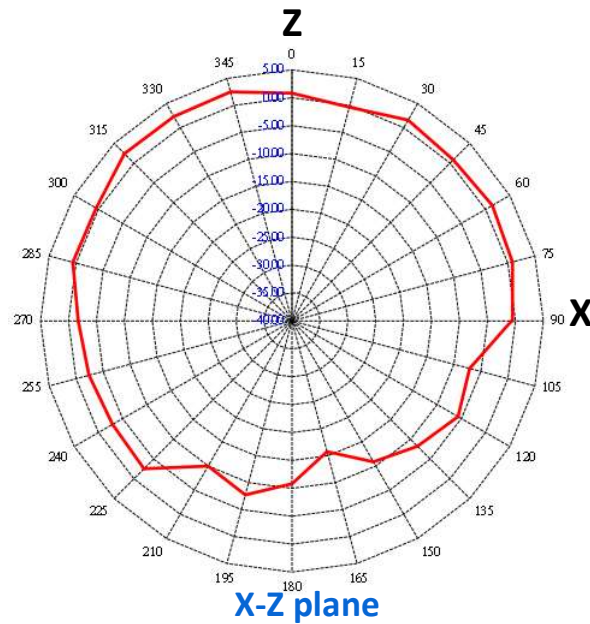
# 2D Radiation Pattern – WiFi 2/5G\_ANT2 @5GHz

|                                             |    |
|---------------------------------------------|----|
| Down Tilt Angle<br>From Ceiling<br>(degree) | 15 |
| Gain Flatness<br>(dB)                       | 7  |



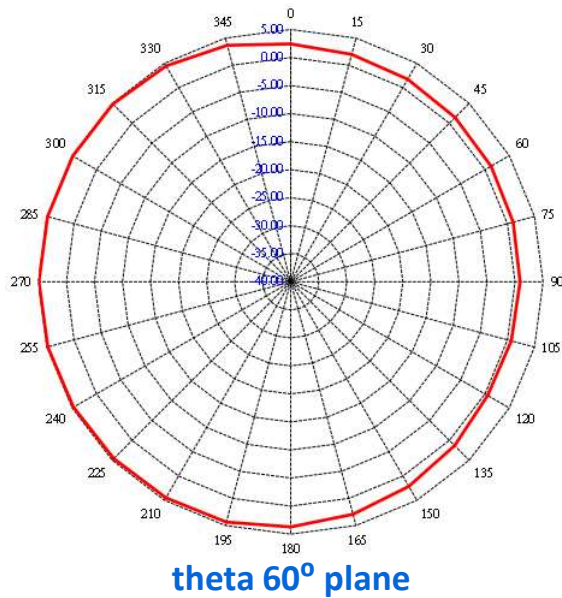
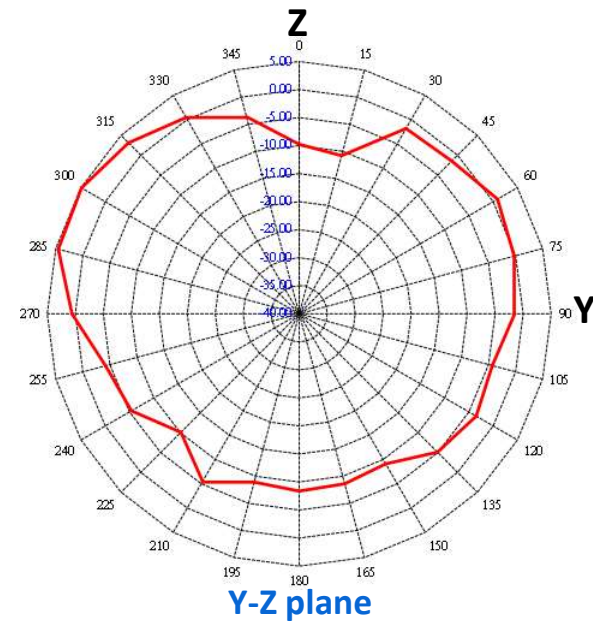
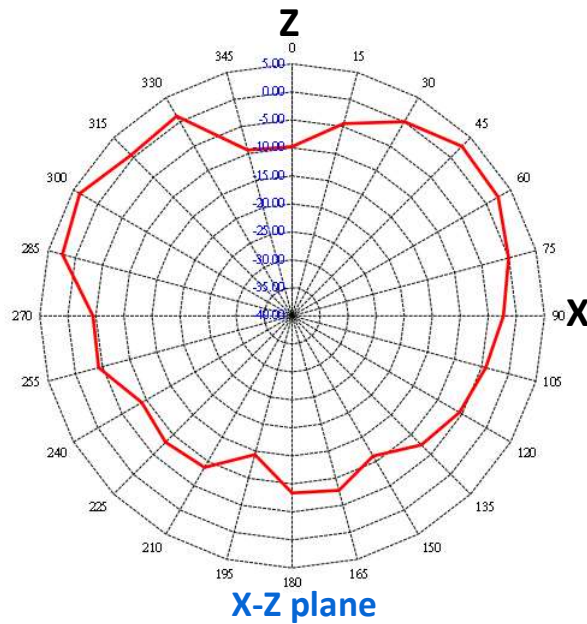
# 2D Radiation Pattern – WiFi 2/5G\_ANT3 @5GHz

|                                             |    |
|---------------------------------------------|----|
| Down Tilt Angle<br>From Ceiling<br>(degree) | 15 |
| Gain Flatness<br>(dB)                       | 7  |



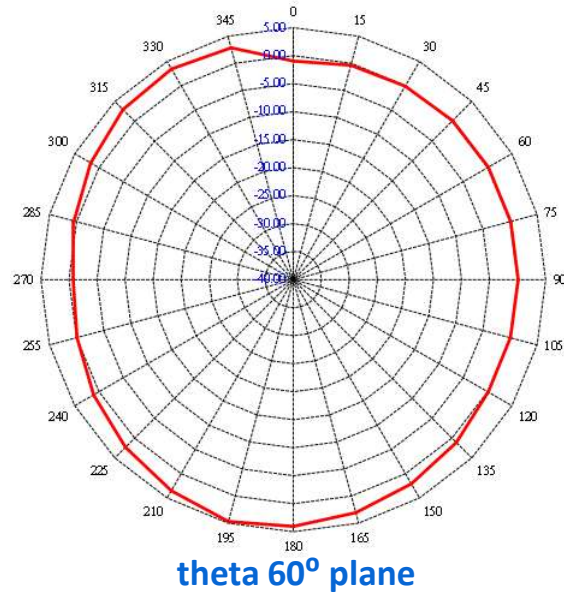
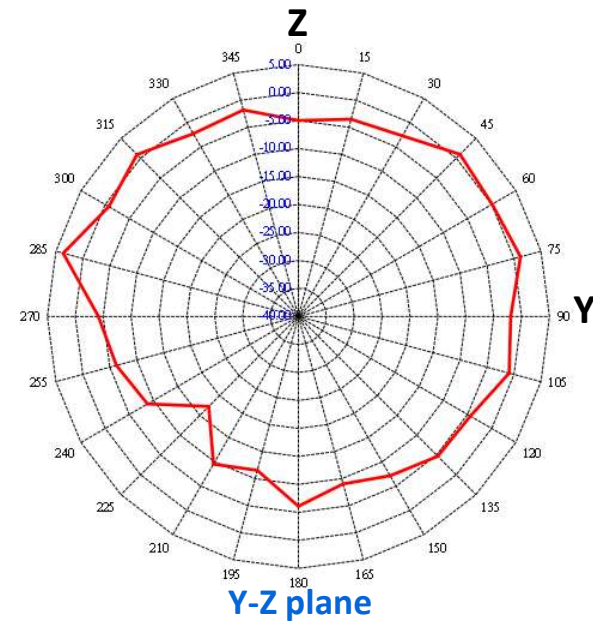
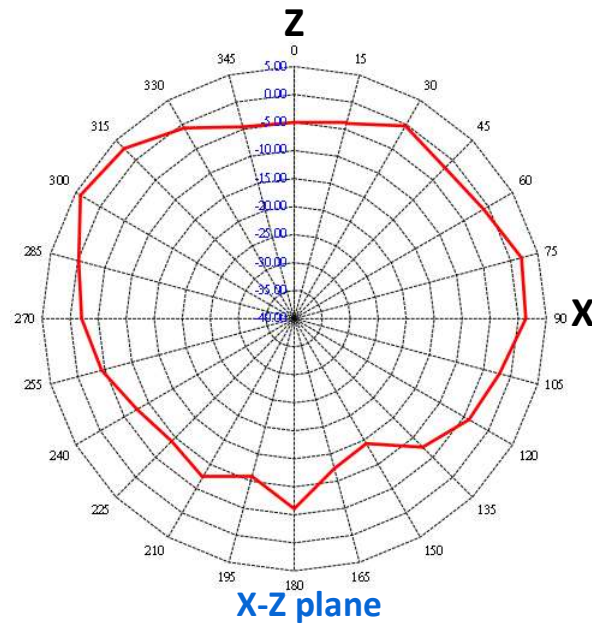
# 2D Radiation Pattern – WiFi 6G\_ANT0

|                                             |    |
|---------------------------------------------|----|
| Down Tilt Angle<br>From Ceiling<br>(degree) | 15 |
| Gain Flatness<br>(dB)                       | 7  |



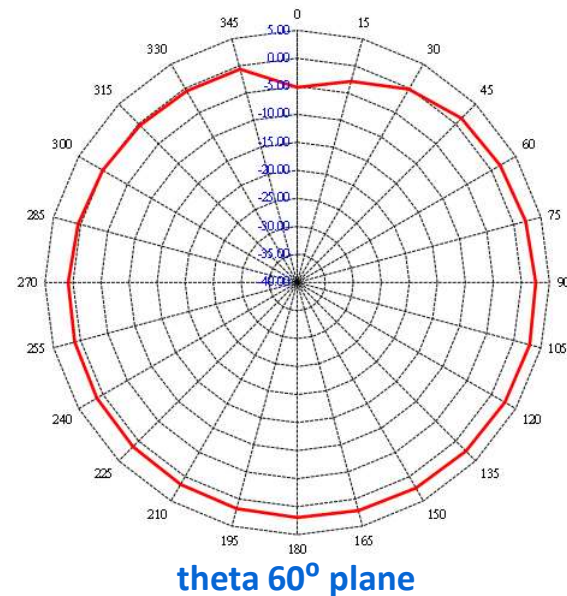
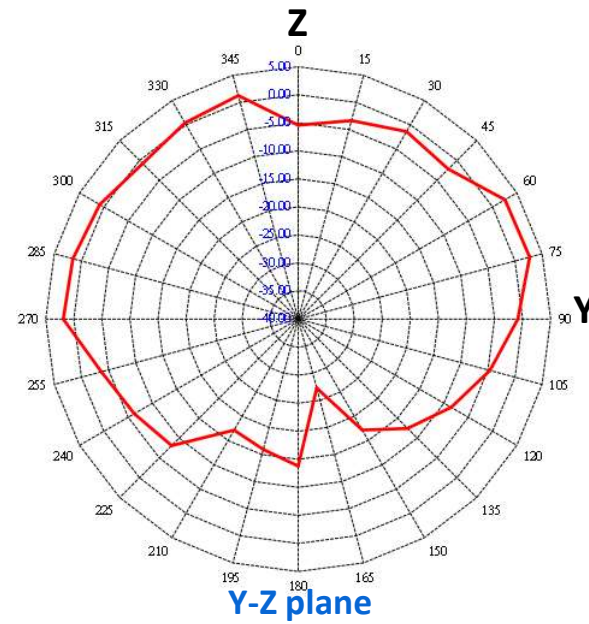
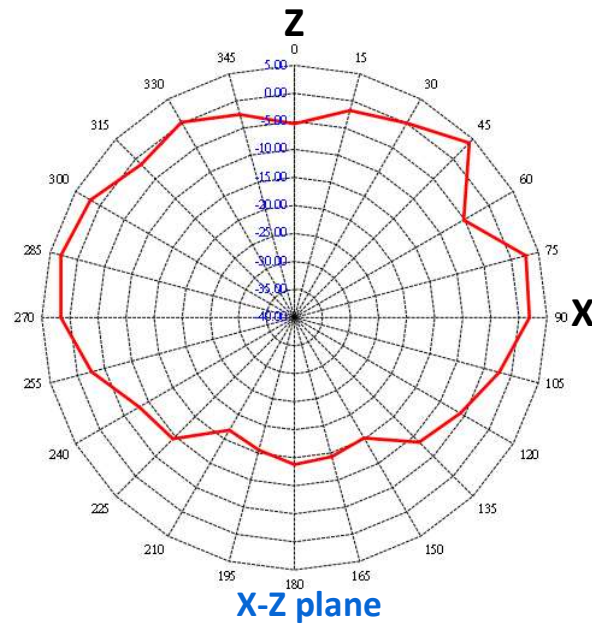
# 2D Radiation Pattern – WiFi 6G\_ANT1

|                                             |    |
|---------------------------------------------|----|
| Down Tilt Angle<br>From Ceiling<br>(degree) | 15 |
| Gain Flatness<br>(dB)                       | 7  |



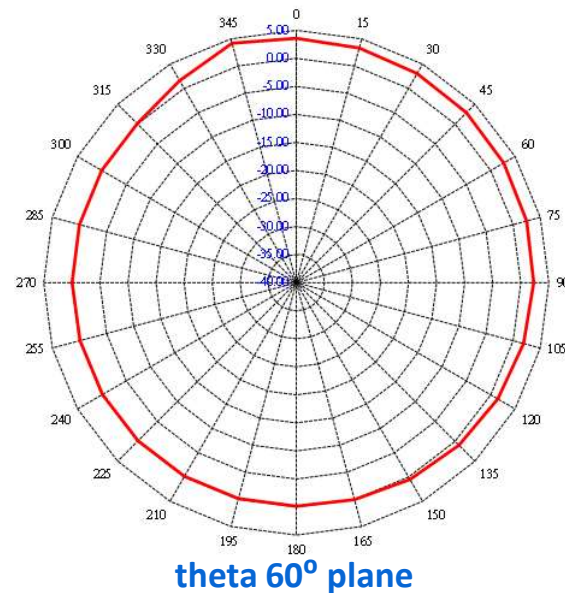
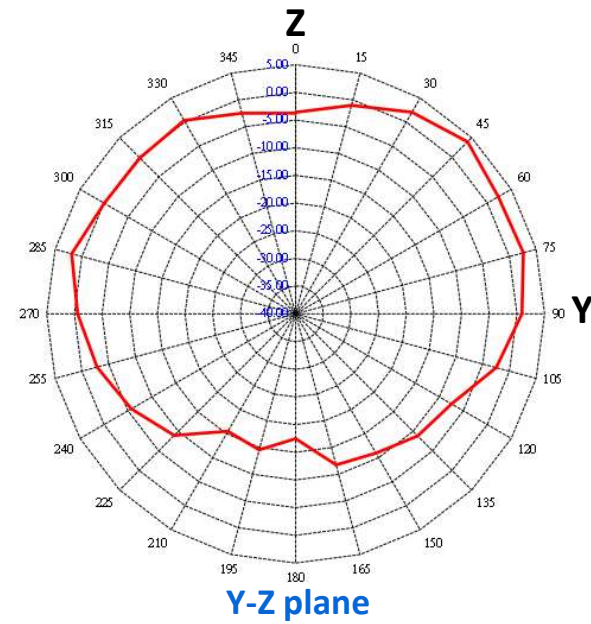
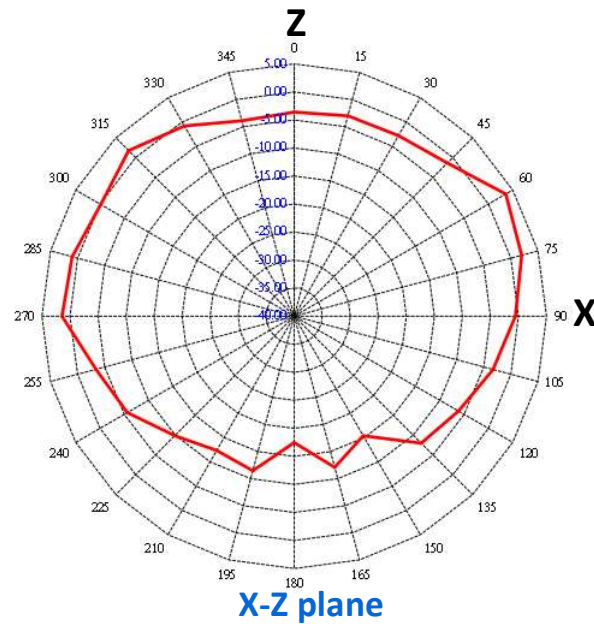
# 2D Radiation Pattern – WiFi 6G\_ANT2

|                                             |    |
|---------------------------------------------|----|
| Down Tilt Angle<br>From Ceiling<br>(degree) | 15 |
| Gain Flatness<br>(dB)                       | 7  |



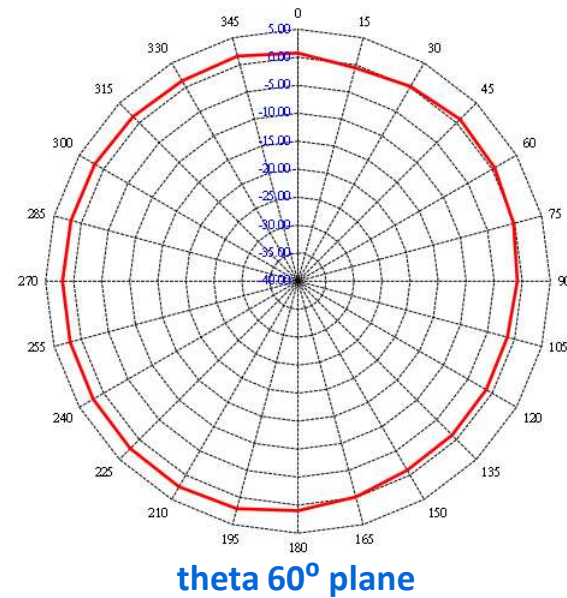
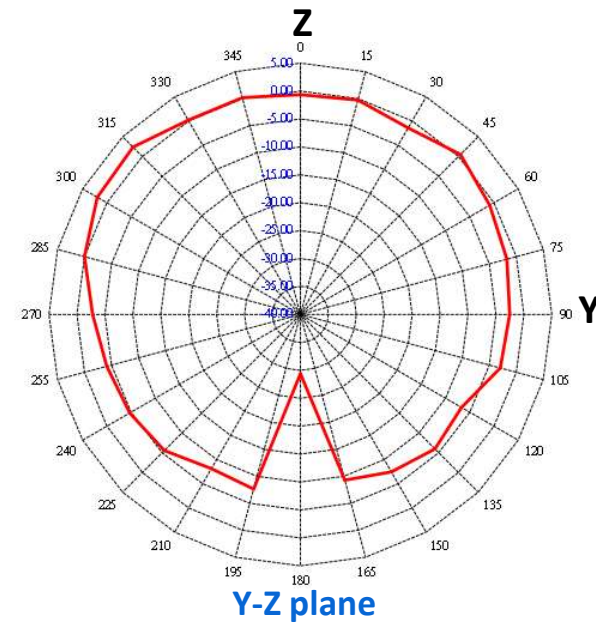
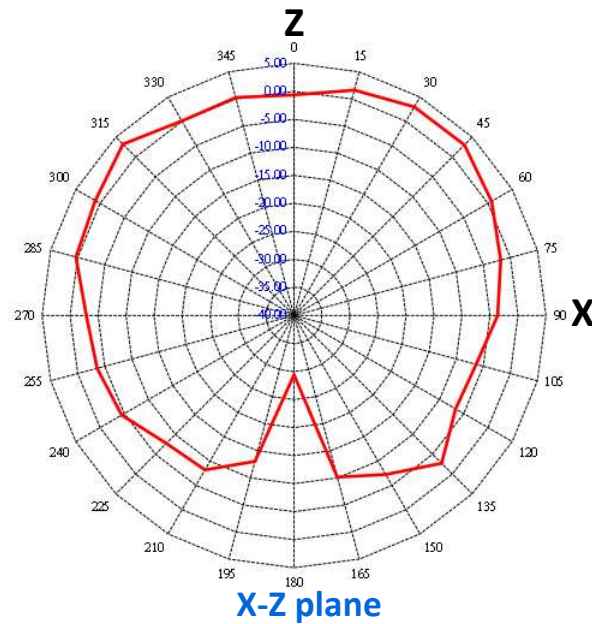
# 2D Radiation Pattern – WiFi 6G\_ANT3

|                                             |    |
|---------------------------------------------|----|
| Down Tilt Angle<br>From Ceiling<br>(degree) | 15 |
| Gain Flatness<br>(dB)                       | 7  |



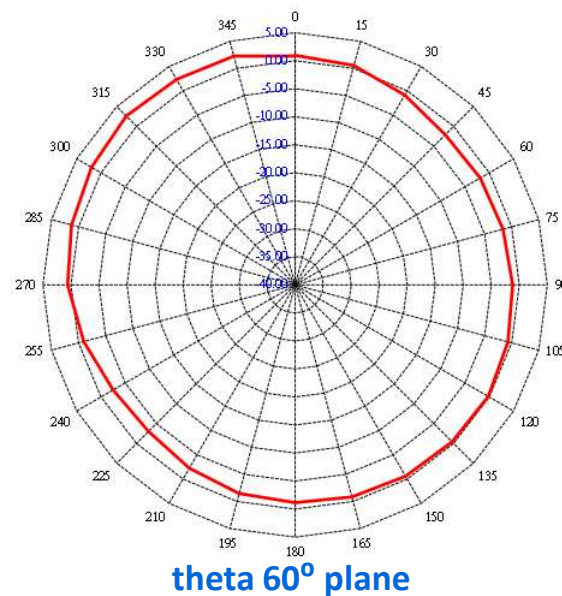
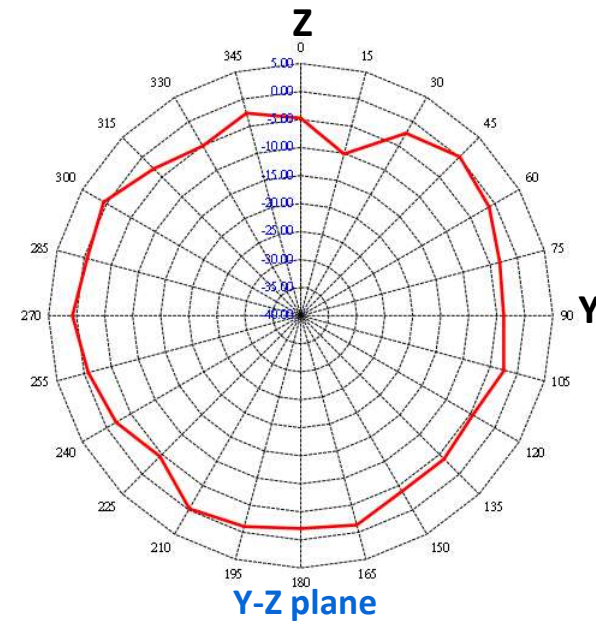
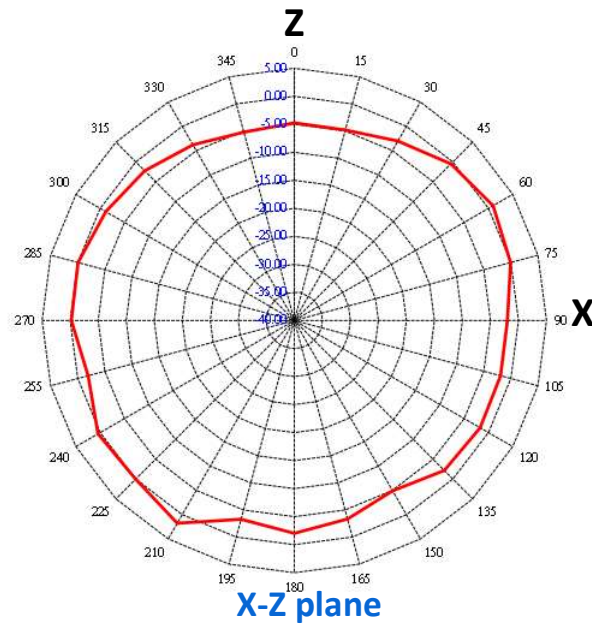
# 2D Radiation Pattern – BLE\_ANT

|                                             |    |
|---------------------------------------------|----|
| Down Tilt Angle<br>From Ceiling<br>(degree) | 30 |
| Gain Flatness<br>(dB)                       | 5  |

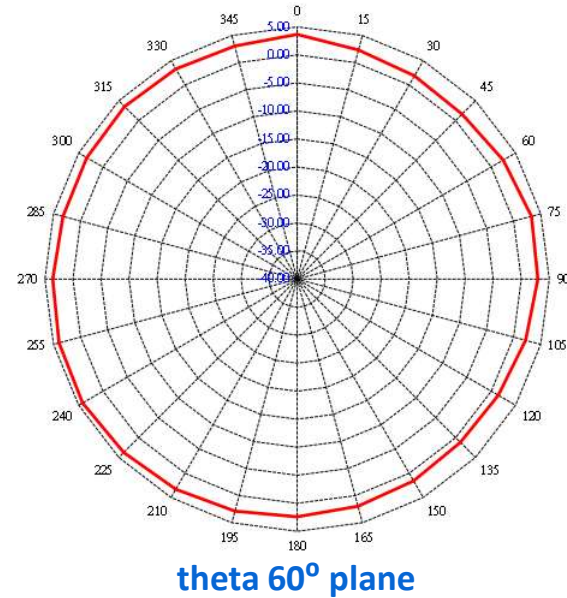
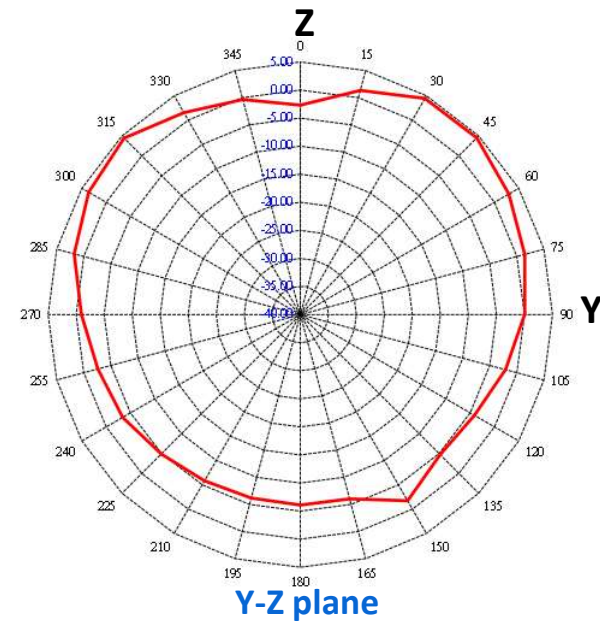
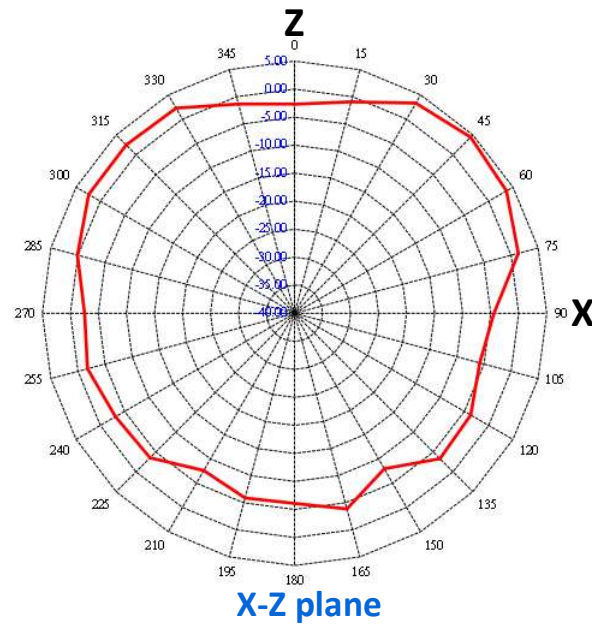


# 2D Radiation Pattern – GPS\_ANT

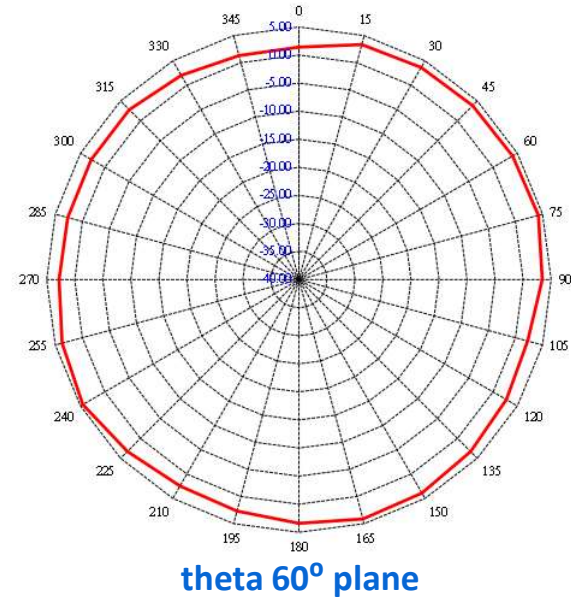
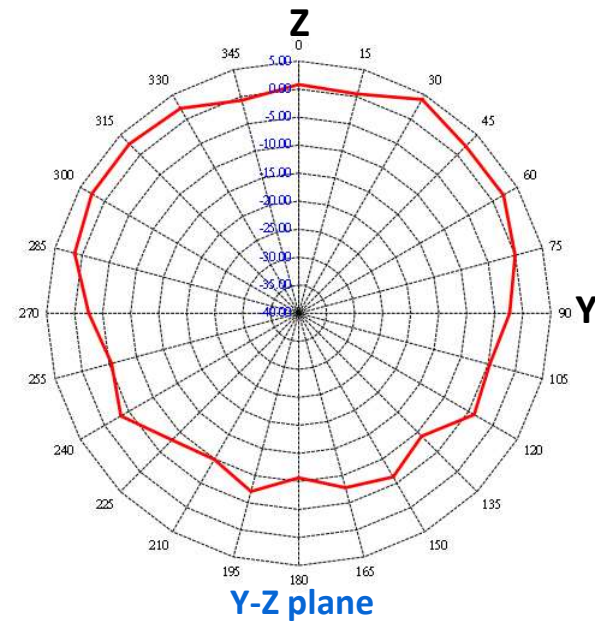
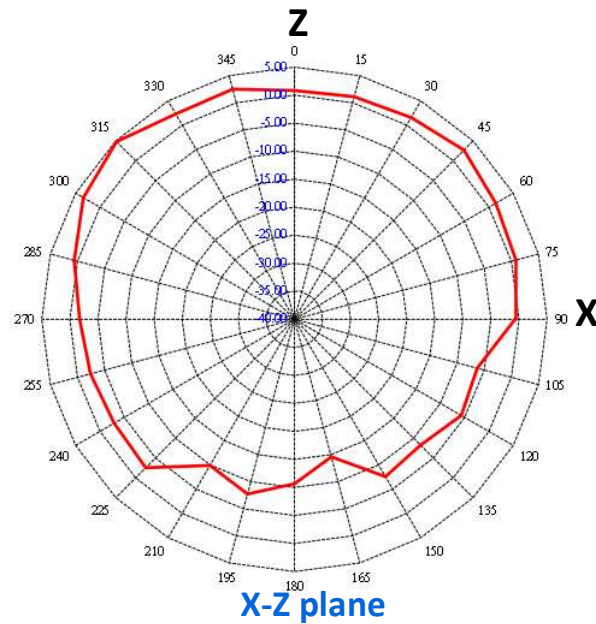
|                                             |    |
|---------------------------------------------|----|
| Down Tilt Angle<br>From Ceiling<br>(degree) | 30 |
| Gain Flatness<br>(dB)                       | 6  |



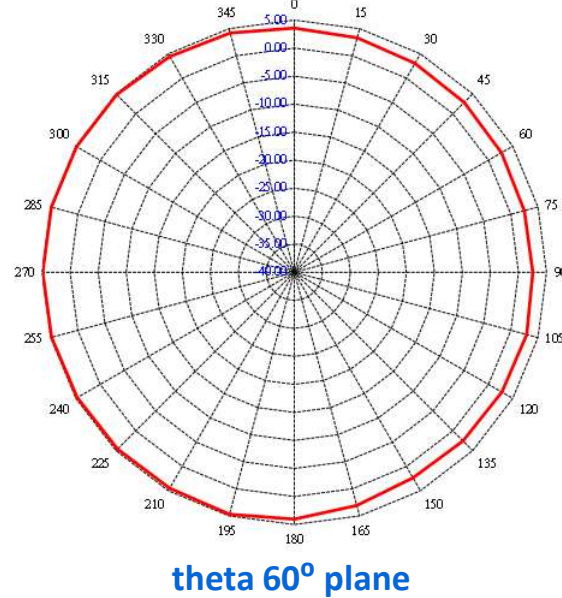
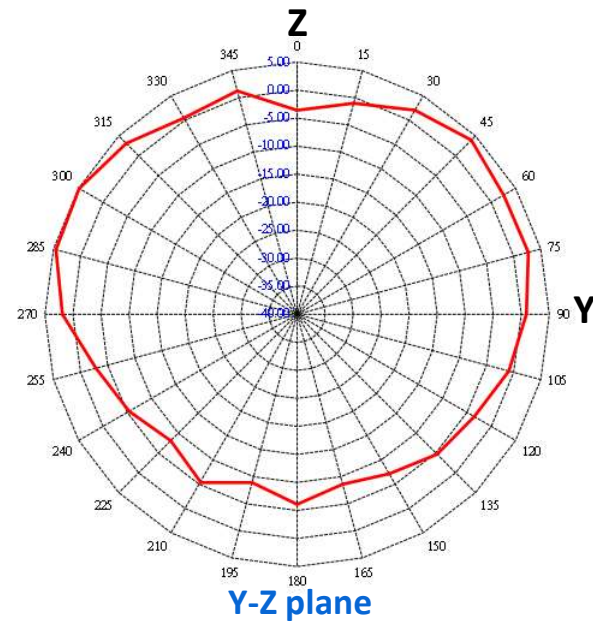
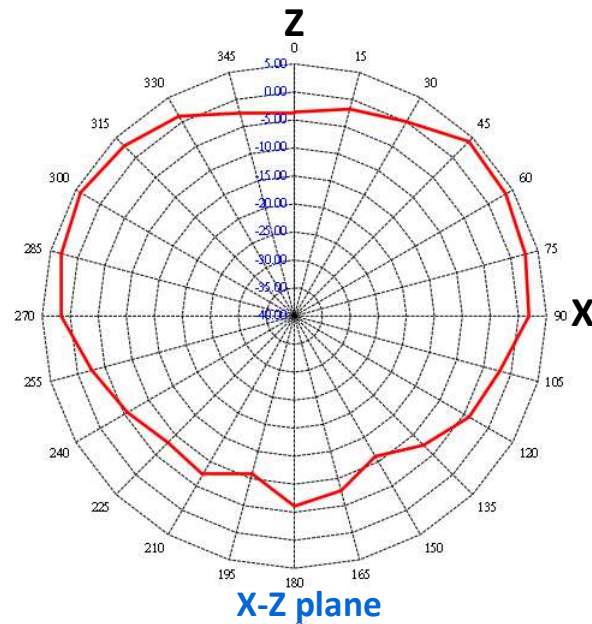
# 2D Composite Radiation Pattern – WiFi 2.4G



# 2D Composite Radiation Pattern – WiFi 5G



# 2D Composite Radiation Pattern – WiFi 6G



# Raw Data (ANT0@2G 2400MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0_0.34          | 4.52          | 4.71          | 4.89          | 5.07          | 5.25          | 5.43          | 5.61          | 5.79          | 5.97          | 6.15          | 6.33          | 6.51          | 6.69          | 6.87          | 7.05          | 7.23          | 7.41          | 7.59          | 7.77          | 7.95          | 8.13          | 8.31          | 8.49          | 8.67          | 8.85          | 9.03          | 9.21          | 9.39          | 9.57          | 9.75          | 9.93          | 10.11         | 10.29         | 10.47         | 10.65         | 10.83         |               |
| 0_0.34          | 4.47          | 4.66          | 4.84          | 5.02          | 5.20          | 5.38          | 5.56          | 5.74          | 5.92          | 6.10          | 6.28          | 6.46          | 6.64          | 6.82          | 7.00          | 7.18          | 7.36          | 7.54          | 7.72          | 7.90          | 8.08          | 8.26          | 8.44          | 8.62          | 8.80          | 8.98          | 9.16          | 9.34          | 9.52          | 9.70          | 9.88          | 10.06         | 10.24         | 10.42         | 10.60         | 10.78         |               |
| 10_0.34         | 4.41          | 4.59          | 4.77          | 4.95          | 5.13          | 5.31          | 5.49          | 5.67          | 5.85          | 6.03          | 6.21          | 6.39          | 6.57          | 6.75          | 6.93          | 7.11          | 7.29          | 7.47          | 7.65          | 7.83          | 8.01          | 8.19          | 8.37          | 8.55          | 8.73          | 8.91          | 9.09          | 9.27          | 9.45          | 9.63          | 9.81          | 9.99          | 10.17         | 10.35         | 10.53         | 10.71         |               |
| 10_0.34         | 4.36          | 4.54          | 4.72          | 4.90          | 5.08          | 5.26          | 5.44          | 5.62          | 5.80          | 5.98          | 6.16          | 6.34          | 6.52          | 6.70          | 6.88          | 7.06          | 7.24          | 7.42          | 7.60          | 7.78          | 7.96          | 8.14          | 8.32          | 8.50          | 8.68          | 8.86          | 9.04          | 9.22          | 9.40          | 9.58          | 9.76          | 9.94          | 10.12         | 10.30         | 10.48         | 10.66         |               |
| 20_0.34         | 4.31          | 4.49          | 4.67          | 4.85          | 5.03          | 5.21          | 5.39          | 5.57          | 5.75          | 5.93          | 6.11          | 6.29          | 6.47          | 6.65          | 6.83          | 7.01          | 7.19          | 7.37          | 7.55          | 7.73          | 7.91          | 8.09          | 8.27          | 8.45          | 8.63          | 8.81          | 8.99          | 9.17          | 9.35          | 9.53          | 9.71          | 9.89          | 10.07         | 10.25         | 10.43         | 10.61         |               |
| 20_0.34         | 4.25          | 4.43          | 4.61          | 4.79          | 4.97          | 5.15          | 5.33          | 5.51          | 5.69          | 5.87          | 6.05          | 6.23          | 6.41          | 6.59          | 6.77          | 6.95          | 7.13          | 7.31          | 7.49          | 7.67          | 7.85          | 8.03          | 8.21          | 8.39          | 8.57          | 8.75          | 8.93          | 9.11          | 9.29          | 9.47          | 9.65          | 9.83          | 10.01         | 10.19         | 10.37         |               |               |
| 30_0.34         | 4.31          | 4.49          | 4.67          | 4.85          | 5.03          | 5.21          | 5.39          | 5.57          | 5.75          | 5.93          | 6.11          | 6.29          | 6.47          | 6.65          | 6.83          | 7.01          | 7.19          | 7.37          | 7.55          | 7.73          | 7.91          | 8.09          | 8.27          | 8.45          | 8.63          | 8.81          | 8.99          | 9.17          | 9.35          | 9.53          | 9.71          | 9.89          | 10.07         | 10.25         | 10.43         | 10.61         |               |
| 30_0.34         | 4.24          | 4.42          | 4.60          | 4.78          | 4.96          | 5.14          | 5.32          | 5.50          | 5.68          | 5.86          | 6.04          | 6.22          | 6.40          | 6.58          | 6.76          | 6.94          | 7.12          | 7.30          | 7.48          | 7.66          | 7.84          | 8.02          | 8.20          | 8.38          | 8.56          | 8.74          | 8.92          | 9.10          | 9.28          | 9.46          | 9.64          | 9.82          | 10.00         | 10.18         | 10.36         |               |               |
| 40_0.34         | 4.44          | 4.62          | 4.80          | 4.98          | 5.16          | 5.34          | 5.52          | 5.70          | 5.88          | 6.06          | 6.24          | 6.42          | 6.60          | 6.78          | 6.96          | 7.14          | 7.32          | 7.50          | 7.68          | 7.86          | 8.04          | 8.22          | 8.40          | 8.58          | 8.76          | 8.94          | 9.12          | 9.30          | 9.48          | 9.66          | 9.84          | 10.02         | 10.20         | 10.38         | 10.56         |               |               |
| 40_0.34         | 4.37          | 4.55          | 4.73          | 4.91          | 5.09          | 5.27          | 5.45          | 5.63          | 5.81          | 5.99          | 6.17          | 6.35          | 6.53          | 6.71          | 6.89          | 7.07          | 7.25          | 7.43          | 7.61          | 7.79          | 7.97          | 8.15          | 8.33          | 8.51          | 8.69          | 8.87          | 9.05          | 9.23          | 9.41          | 9.59          | 9.77          | 9.95          | 10.13         | 10.31         | 10.49         |               |               |
| 50_0.34         | 4.68          | 4.86          | 5.04          | 5.22          | 5.40          | 5.58          | 5.76          | 5.94          | 6.12          | 6.30          | 6.48          | 6.66          | 6.84          | 7.02          | 7.20          | 7.38          | 7.56          | 7.74          | 7.92          | 8.10          | 8.28          | 8.46          | 8.64          | 8.82          | 9.00          | 9.18          | 9.36          | 9.54          | 9.72          | 9.90          | 10.08         | 10.26         | 10.44         | 10.62         | 10.80         |               |               |
| 50_0.34         | 4.77          | 4.95          | 5.13          | 5.31          | 5.49          | 5.67          | 5.85          | 6.03          | 6.21          | 6.39          | 6.57          | 6.75          | 6.93          | 7.11          | 7.29          | 7.47          | 7.65          | 7.83          | 8.01          | 8.19          | 8.37          | 8.55          | 8.73          | 8.91          | 9.09          | 9.27          | 9.45          | 9.63          | 9.81          | 9.99          | 10.17         | 10.35         | 10.53         | 10.71         | 10.89         |               |               |
| 60_0.34         | 4.86          | 5.04          | 5.22          | 5.40          | 5.58          | 5.76          | 5.94          | 6.12          | 6.30          | 6.48          | 6.66          | 6.84          | 7.02          | 7.20          | 7.38          | 7.56          | 7.74          | 7.92          | 8.10          | 8.28          | 8.46          | 8.64          | 8.82          | 9.00          | 9.18          | 9.36          | 9.54          | 9.72          | 9.90          | 10.08         | 10.26         | 10.44         | 10.62         | 10.80         | 10.98         |               |               |
| 60_0.34         | 4.96          | 5.14          | 5.32          | 5.50          | 5.68          | 5.86          | 6.04          | 6.22          | 6.40          | 6.58          | 6.76          | 6.94          | 7.12          | 7.30          | 7.48          | 7.66          | 7.84          | 8.02          | 8.20          | 8.38          | 8.56          | 8.74          | 8.92          | 9.10          | 9.28          | 9.46          | 9.64          | 9.82          | 10.00         | 10.18         | 10.36         | 10.54         | 10.72         | 10.90         | 11.08         |               |               |
| 70_0.34         | 5.05          | 5.23          | 5.41          | 5.59          | 5.77          | 5.95          | 6.13          | 6.31          | 6.49          | 6.67          | 6.85          | 7.03          | 7.21          | 7.39          | 7.57          | 7.75          | 7.93          | 8.11          | 8.29          | 8.47          | 8.65          | 8.83          | 9.01          | 9.19          | 9.37          | 9.55          | 9.73          | 9.91          | 10.09         | 10.27         | 10.45         | 10.63         | 10.81         | 10.99         | 11.17         |               |               |
| 70_0.34         | 5.14          | 5.32          | 5.50          | 5.68          | 5.86          | 6.04          | 6.22          | 6.40          | 6.58          | 6.76          | 6.94          | 7.12          | 7.30          | 7.48          | 7.66          | 7.84          | 8.02          | 8.20          | 8.38          | 8.56          | 8.74          | 8.92          | 9.10          | 9.28          | 9.46          | 9.64          | 9.82          | 10.00         | 10.18         | 10.36         | 10.54         | 10.72         | 10.90         | 11.08         | 11.26         |               |               |
| 80_0.34         | 5.23          | 5.41          | 5.59          | 5.77          | 5.95          | 6.13          | 6.31          | 6.49          | 6.67          | 6.85          | 7.03          | 7.21          | 7.39          | 7.57          | 7.75          | 7.93          | 8.11          | 8.29          | 8.47          | 8.65          | 8.83          | 9.01          | 9.19          | 9.37          | 9.55          | 9.73          | 9.91          | 10.09         | 10.27         | 10.45         | 10.63         | 10.81         | 10.99         | 11.17         | 11.35         |               |               |
| 80_0.34         | 5.32          | 5.50          | 5.68          | 5.86          | 6.04          | 6.22          | 6.40          | 6.58          | 6.76          | 6.94          | 7.12          | 7.30          | 7.48          | 7.66          | 7.84          | 8.02          | 8.20          | 8.38          | 8.56          | 8.74          | 8.92          | 9.10          | 9.28          | 9.46          | 9.64          | 9.82          | 10.00         | 10.18         | 10.36         | 10.54         | 10.72         | 10.90         | 11.08         | 11.26         | 11.44         |               |               |
| 90_0.34         | 5.41          | 5.59          | 5.77          | 5.95          | 6.13          | 6.31          | 6.49          | 6.67          | 6.85          | 7.03          | 7.21          | 7.39          | 7.57          | 7.75          | 7.93          | 8.11          | 8.29          | 8.47          | 8.65          | 8.83          | 9.01          | 9.19          | 9.37          | 9.55          | 9.73          | 9.91          | 10.09         | 10.27         | 10.45         | 10.63         | 10.81         | 10.99         | 11.17         | 11.35         | 11.53         |               |               |
| 90_0.34         | 5.47          | 5.65          | 5.83          | 6.01          | 6.19          | 6.37          | 6.55          | 6.73          | 6.91          | 7.09          | 7.27          | 7.45          | 7.63          | 7.81          | 7.99          | 8.17          | 8.35          | 8.53          | 8.71          | 8.89          | 9.07          | 9.25          | 9.43          | 9.61          | 9.79          | 9.97          | 10.15         | 10.33         | 10.51         | 10.69         | 10.87         | 11.05         | 11.23         | 11.41         | 11.59         |               |               |
| 100_0.34        | 5.56          | 5.74          | 5.92          | 6.10          | 6.28          | 6.46          | 6.64          | 6.82          | 7.00          | 7.18          | 7.36          | 7.54          | 7.72          | 7.90          | 8.08          | 8.26          | 8.44          | 8.62          | 8.80          | 8.98          | 9.16          | 9.34          | 9.52          | 9.70          | 9.88          | 10.06         | 10.24         | 10.42         | 10.60         | 10.78         | 10.96         | 11.14         | 11.32         | 11.50         | 11.68         |               |               |
| 100_0.34        | 5.65          | 5.83          | 6.01          | 6.19          | 6.37          | 6.55          | 6.73          | 6.91          | 7.09          | 7.27          | 7.45          | 7.63          | 7.81          | 7.99          | 8.17          | 8.35          | 8.53          | 8.71          | 8.89          | 9.07          | 9.25          | 9.43          | 9.61          | 9.79          | 9.97          | 10.15         | 10.33         | 10.51         | 10.69         | 10.87         | 11.05         | 11.23         | 11.41         | 11.59         | 11.77         |               |               |
| 110_0.34        | 5.73          | 5.91          | 6.09          | 6.27          | 6.45          | 6.63          | 6.81          | 6.99          | 7.17          | 7.35          | 7.53          | 7.71          | 7.89          | 8.07          | 8.25          | 8.43          | 8.61          | 8.79          | 8.97          | 9.15          | 9.33          | 9.51          | 9.69          | 9.87          | 10.05         | 10.23         | 10.41         | 10.59         | 10.77         | 10.95         | 11.13         | 11.31         | 11.49         | 11.67         | 11.85         |               |               |
| 110_0.34        | 5.82          | 6.00          | 6.18          | 6.36          | 6.54          | 6.72          | 6.90          | 7.08          | 7.26          | 7.44          | 7.62          | 7.80          | 7.98          | 8.16          | 8.34          | 8.52          | 8.70          | 8.88          | 9.06          | 9.24          | 9.42          | 9.60          | 9.78          | 9.96          | 10.14         | 10.32         | 10.50         | 10.68         | 10.86         | 11.04         | 11.22         | 11.40         | 11.58         | 11.76         | 11.94         |               |               |
| 120_0.34        | 5.87          | 6.05          | 6.23          | 6.41          | 6.59          | 6.77          | 6.95          | 7.13          | 7.31          | 7.49          | 7.67          | 7.85          | 8.03          | 8.21          | 8.39          | 8.57          | 8.75          | 8.93          | 9.11          | 9.29          | 9.47          | 9.65          | 9.83          | 10.01         | 10.19         | 10.37         | 10.55         | 10.73         | 10.91         | 11.09         | 11.27         | 11.45         | 11.63         | 11.81         | 11.99         |               |               |
| 120_0.34        | 5.96          | 6.14          | 6.32          | 6.50          | 6.68          | 6.86          | 7.04          | 7.22          | 7.40          | 7.58          | 7.76          | 7.94          | 8.12          | 8.30          | 8.48          | 8.66          | 8.84          | 9.02          | 9.20          | 9.38          | 9.56          | 9.74          | 9.92          | 10.10         | 10.28         | 10.46         | 10.64         | 10.82         | 11.00         | 11.18         | 11.36         | 11.54         | 11.72         | 11.90         | 12.08         |               |               |
| 130_0.34        | 5.96          | 6.14          | 6.32          | 6.50          | 6.68          | 6.86          | 7.04          | 7.22          | 7.40          | 7.58          | 7.76          | 7.94          | 8.12          | 8.30          | 8.48          | 8.66          | 8.84          | 9.02          | 9.20          | 9.38          | 9.56          | 9.74          | 9.92          | 10.10         | 10.28         | 10.46         | 10.64         | 10.82         | 11.00         | 11.18         | 11.36         | 11.54         | 11.72         | 11.90         | 12.08         |               |               |
| 130_0.34        | 6.05          | 6.23          | 6.41          | 6.59          | 6.77          | 6.95          | 7.13          | 7.31          | 7.49          | 7.67          | 7.85          | 8.03          | 8.21          | 8.39          | 8.57          | 8.75          | 8.93          | 9.11          | 9.29          | 9.47          | 9.65          | 9.83          | 10.01         | 10.19         | 10.37         | 10.55         | 10.73         | 10.91         | 11.09         | 11.27         | 11.45         | 11.63         | 11.81         | 11.99         | 12.17         |               |               |
| 140_0.34        | 6.05          | 6.23          | 6.41          | 6.59          | 6.77          | 6.95          | 7.13          | 7.31          | 7.49          | 7.67          | 7.85          | 8.03          | 8.21          | 8.39          | 8.57          | 8.75          | 8.93          | 9.11          | 9.29          | 9.47          | 9.65          | 9.83          | 10.01         | 10.19         | 10.37         | 10.55         | 10.73         | 10.91         | 11.09         | 11.27         | 11.45         | 11.63         | 11.81         | 11.99         | 12.17         |               |               |
| 140_0.34        | 6.14          | 6.32          | 6.50          | 6.68          | 6.86          | 7.04          | 7.22          | 7.40          | 7.58          | 7.76          | 7.94          | 8.12          | 8.30          | 8.48          | 8.66          | 8.84          | 9.02          | 9.20          | 9.38          | 9.56          | 9.74          | 9.92          | 10.10         | 10.28         | 10.46         | 10.64         | 10.82         | 11.00         | 11.18         | 11.36         | 11.54         | 11.72         | 11.90         | 12.08         | 12.26         |               |               |
| 150_0.34        | 6.14          | 6.32          | 6.50          | 6.68          | 6.86          | 7.04          | 7.22          | 7.40          | 7.58          | 7.76          | 7.94          | 8.12          | 8.30          | 8.48          | 8.66          | 8.84          | 9.02          | 9.20          | 9.38          | 9.56          | 9.74          | 9.92          | 10.10         | 10.28         | 10.46         | 10.64         | 10.82         | 11.00         | 11.18         | 11.36         | 11.54         | 11.72         | 11.90         | 12.08         | 12.26         |               |               |
| 150_0.34        | 6.23          | 6.41          | 6.59          | 6.77          | 6.95          | 7.13          | 7.31          | 7.49          | 7.67          | 7.85          | 8.03          | 8.21          | 8.39          | 8.57          | 8.75          | 8.93          | 9.11          | 9.29          | 9.47          | 9.65          | 9.83          | 10.01         | 10.19         | 10.37         | 10.55         | 10.73         | 10.91         | 11.09         | 11.27         | 11.45         | 11.63         | 11.81         | 11.99         | 12.17         | 12.35         |               |               |
| 160_0.34        | 6.23          | 6.41          | 6.59          | 6.77          | 6.95          | 7.13          | 7.31          | 7.49          | 7.67          | 7.85          | 8.03          | 8.21          | 8.39          | 8.57          | 8.75          | 8.93          | 9.11          | 9.29          | 9.47          | 9.65          | 9.83          | 10.01         | 10.19         | 10.37         | 10.55         | 10.73         | 10.91         | 11.09         | 11.27         | 11.45         | 11.63         | 11.81         | 11.99         | 12.17         | 12.35         |               |               |
| 160_0.34        | 6.32          | 6.50          | 6.68          | 6.86          | 7.04          | 7.22          | 7.40          | 7.58          | 7.76          | 7.94          | 8.12          | 8.30          | 8.48          | 8.66          | 8.84          | 9.02          | 9.20          | 9.38          | 9.56          | 9.74          | 9.92          | 10.10         | 10.28         | 10.46         | 10.64         | 10.82         | 11.00         | 11.18         | 11.36         | 11.54         | 11.72         | 11.90         | 12.08         | 12.26         | 12.44         |               |               |
| 170_0.34        | 6.32          | 6.50          | 6.68          | 6.86          | 7.04          | 7.22          | 7.40          | 7.58          | 7.76          | 7.94          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |





# Raw Data (ANT1@2G 2400MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0               | 12.12         | 10.35         | 8.5           | 6.65          | 4.85          | 3.05          | 1.25          | -0.55         | -2.35         | -4.15         | -5.95         | -7.75         | -9.55         | -11.35        | -13.15        | -14.95        | -16.75        | -18.55        | -20.35        | -22.15        | -23.95        | -25.75        | -27.55        | -29.35        | -31.15        | -32.95        | -34.75        | -36.55        | -38.35        | -40.15        | -41.95        | -43.75        | -45.55        | -47.35        | -49.15        | -50.95        |               |
| 5               | 12.28         | 10.5          | 8.75          | 6.95          | 5.15          | 3.35          | 1.55          | -0.25         | -2.05         | -3.85         | -5.65         | -7.45         | -9.25         | -11.05        | -12.85        | -14.65        | -16.45        | -18.25        | -20.05        | -21.85        | -23.65        | -25.45        | -27.25        | -29.05        | -30.85        | -32.65        | -34.45        | -36.25        | -38.05        | -39.85        | -41.65        | -43.45        | -45.25        | -47.05        | -48.85        | -50.65        |               |
| 10              | 12.44         | 10.65         | 8.95          | 7.15          | 5.35          | 3.55          | 1.75          | -0.05         | -1.85         | -3.65         | -5.45         | -7.25         | -9.05         | -10.85        | -12.65        | -14.45        | -16.25        | -18.05        | -19.85        | -21.65        | -23.45        | -25.25        | -27.05        | -28.85        | -30.65        | -32.45        | -34.25        | -36.05        | -37.85        | -39.65        | -41.45        | -43.25        | -45.05        | -46.85        | -48.65        | -50.45        |               |
| 15              | 12.6          | 10.85         | 9.15          | 7.35          | 5.55          | 3.75          | 1.95          | -0.25         | -2.05         | -3.85         | -5.65         | -7.45         | -9.25         | -11.05        | -12.85        | -14.65        | -16.45        | -18.25        | -20.05        | -21.85        | -23.65        | -25.45        | -27.25        | -29.05        | -30.85        | -32.65        | -34.45        | -36.25        | -38.05        | -39.85        | -41.65        | -43.45        | -45.25        | -47.05        | -48.85        | -50.65        |               |
| 20              | 12.76         | 11.05         | 9.35          | 7.55          | 5.75          | 3.95          | 2.15          | -0.15         | -1.95         | -3.75         | -5.55         | -7.35         | -9.15         | -10.95        | -12.75        | -14.55        | -16.35        | -18.15        | -19.95        | -21.75        | -23.55        | -25.35        | -27.15        | -28.95        | -30.75        | -32.55        | -34.35        | -36.15        | -37.95        | -39.75        | -41.55        | -43.35        | -45.15        | -46.95        | -48.75        | -50.55        |               |
| 25              | 12.92         | 11.21         | 9.55          | 7.75          | 5.95          | 4.15          | 2.35          | -0.35         | -2.15         | -3.95         | -5.75         | -7.55         | -9.35         | -11.15        | -12.95        | -14.75        | -16.57        | -18.37        | -20.17        | -21.97        | -23.77        | -25.57        | -27.37        | -29.17        | -30.97        | -32.77        | -34.57        | -36.37        | -38.17        | -39.97        | -41.77        | -43.57        | -45.37        | -47.17        | -48.97        | -50.77        |               |
| 30              | 13.08         | 11.37         | 9.71          | 7.91          | 6.11          | 4.31          | 2.51          | -0.51         | -2.31         | -4.11         | -5.91         | -7.71         | -9.51         | -11.31        | -13.11        | -14.91        | -16.71        | -18.51        | -20.31        | -22.11        | -23.91        | -25.71        | -27.51        | -29.31        | -31.11        | -32.91        | -34.71        | -36.51        | -38.31        | -40.11        | -41.91        | -43.71        | -45.51        | -47.31        | -49.11        | -50.91        |               |
| 35              | 13.24         | 11.53         | 9.87          | 8.07          | 6.27          | 4.47          | 2.67          | -0.67         | -2.47         | -4.27         | -6.07         | -7.87         | -9.67         | -11.47        | -13.27        | -15.07        | -16.87        | -18.67        | -20.47        | -22.27        | -24.07        | -25.87        | -27.67        | -29.47        | -31.27        | -33.07        | -34.87        | -36.67        | -38.47        | -40.27        | -42.07        | -43.87        | -45.67        | -47.47        | -49.27        | -51.07        |               |
| 40              | 13.4          | 11.69         | 10.03         | 8.23          | 6.43          | 4.63          | 2.83          | -0.83         | -2.63         | -4.43         | -6.23         | -8.03         | -9.83         | -11.63        | -13.43        | -15.23        | -17.03        | -18.83        | -20.63        | -22.43        | -24.23        | -26.03        | -27.83        | -29.63        | -31.43        | -33.23        | -35.03        | -36.83        | -38.63        | -40.43        | -42.23        | -44.03        | -45.83        | -47.63        | -49.43        | -51.23        |               |
| 45              | 13.56         | 11.85         | 10.19         | 8.39          | 6.59          | 4.79          | 2.99          | -1.03         | -2.83         | -4.63         | -6.43         | -8.23         | -10.03        | -11.83        | -13.63        | -15.43        | -17.23        | -19.03        | -20.83        | -22.63        | -24.43        | -26.23        | -28.03        | -29.83        | -31.63        | -33.43        | -35.23        | -37.03        | -38.83        | -40.63        | -42.43        | -44.23        | -46.03        | -47.83        | -49.63        | -51.43        |               |
| 50              | 13.72         | 12.01         | 10.35         | 8.55          | 6.75          | 4.95          | 3.15          | -1.15         | -2.95         | -4.75         | -6.55         | -8.35         | -10.15        | -11.95        | -13.75        | -15.55        | -17.35        | -19.15        | -20.95        | -22.75        | -24.55        | -26.35        | -28.15        | -29.95        | -31.75        | -33.55        | -35.35        | -37.15        | -38.95        | -40.75        | -42.55        | -44.35        | -46.15        | -47.95        | -49.75        | -51.55        |               |
| 55              | 13.88         | 12.17         | 10.51         | 8.71          | 6.91          | 5.11          | 3.31          | -1.31         | -3.11         | -4.91         | -6.71         | -8.51         | -10.31        | -12.11        | -13.91        | -15.71        | -17.51        | -19.31        | -21.11        | -22.91        | -24.71        | -26.51        | -28.31        | -30.11        | -31.91        | -33.71        | -35.51        | -37.31        | -39.11        | -40.91        | -42.71        | -44.51        | -46.31        | -48.11        | -49.91        | -51.71        |               |
| 60              | 14.04         | 12.33         | 10.67         | 8.87          | 7.07          | 5.27          | 3.47          | -1.47         | -3.27         | -5.07         | -6.87         | -8.67         | -10.47        | -12.27        | -14.07        | -15.87        | -17.67        | -19.47        | -21.27        | -23.07        | -24.87        | -26.67        | -28.47        | -30.27        | -32.07        | -33.87        | -35.67        | -37.47        | -39.27        | -41.07        | -42.87        | -44.67        | -46.47        | -48.27        | -50.07        | -51.87        |               |
| 65              | 14.2          | 12.49         | 10.83         | 9.03          | 7.23          | 5.43          | 3.63          | -1.63         | -3.43         | -5.23         | -7.03         | -8.83         | -10.63        | -12.43        | -14.23        | -16.03        | -17.83        | -19.63        | -21.43        | -23.23        | -25.03        | -26.83        | -28.63        | -30.43        | -32.23        | -34.03        | -35.83        | -37.63        | -39.43        | -41.23        | -43.03        | -44.83        | -46.63        | -48.43        | -50.23        | -52.03        |               |
| 70              | 14.36         | 12.65         | 10.99         | 9.19          | 7.39          | 5.59          | 3.79          | -1.79         | -3.59         | -5.39         | -7.19         | -8.99         | -10.79        | -12.59        | -14.39        | -16.19        | -17.99        | -19.79        | -21.59        | -23.39        | -25.19        | -26.99        | -28.79        | -30.59        | -32.39        | -34.19        | -35.99        | -37.79        | -39.59        | -41.39        | -43.19        | -44.99        | -46.79        | -48.59        | -50.39        | -52.19        |               |
| 75              | 14.52         | 12.81         | 11.15         | 9.35          | 7.55          | 5.75          | 3.95          | -1.95         | -3.75         | -5.55         | -7.35         | -9.15         | -10.95        | -12.75        | -14.55        | -16.35        | -18.15        | -19.95        | -21.75        | -23.55        | -25.35        | -27.15        | -28.95        | -30.75        | -32.55        | -34.35        | -36.15        | -37.95        | -39.75        | -41.55        | -43.35        | -45.15        | -46.95        | -48.75        | -50.55        | -52.35        |               |
| 80              | 14.68         | 12.97         | 11.31         | 9.51          | 7.71          | 5.91          | 4.11          | -2.11         | -3.91         | -5.71         | -7.51         | -9.31         | -11.11        | -12.91        | -14.71        | -16.51        | -18.31        | -20.11        | -21.91        | -23.71        | -25.51        | -27.31        | -29.11        | -30.91        | -32.71        | -34.51        | -36.31        | -38.11        | -39.91        | -41.71        | -43.51        | -45.31        | -47.11        | -48.91        | -50.71        | -52.51        |               |
| 85              | 14.84         | 13.13         | 11.47         | 9.67          | 7.87          | 6.07          | 4.27          | -2.27         | -4.07         | -5.87         | -7.67         | -9.47         | -11.27        | -13.07        | -14.87        | -16.67        | -18.47        | -20.27        | -22.07        | -23.87        | -25.67        | -27.47        | -29.27        | -31.07        | -32.87        | -34.67        | -36.47        | -38.27        | -40.07        | -41.87        | -43.67        | -45.47        | -47.27        | -49.07        | -50.87        | -52.67        |               |
| 90              | 15.0          | 13.29         | 11.63         | 9.83          | 8.03          | 6.23          | 4.43          | -2.43         | -4.23         | -6.03         | -7.83         | -9.63         | -11.43        | -13.23        | -15.03        | -16.83        | -18.63        | -20.43        | -22.23        | -24.03        | -25.83        | -27.63        | -29.43        | -31.23        | -33.03        | -34.83        | -36.63        | -38.43        | -40.23        | -42.03        | -43.83        | -45.63        | -47.43        | -49.23        | -51.03        | -52.83        |               |
| 95              | 15.16         | 13.45         | 11.79         | 9.99          | 8.19          | 6.39          | 4.59          | -2.59         | -4.39         | -6.19         | -7.99         | -9.79         | -11.59        | -13.39        | -15.19        | -16.99        | -18.79        | -20.59        | -22.39        | -24.19        | -25.99        | -27.79        | -29.59        | -31.39        | -33.19        | -34.99        | -36.79        | -38.59        | -40.39        | -42.19        | -43.99        | -45.79        | -47.59        | -49.39        | -51.19        | -52.99        |               |
| 100             | 15.32         | 13.61         | 11.95         | 10.15         | 8.35          | 6.55          | 4.75          | -2.75         | -4.55         | -6.35         | -8.15         | -9.95         | -11.75        | -13.55        | -15.35        | -17.15        | -18.95        | -20.75        | -22.55        | -24.35        | -26.15        | -27.95        | -29.75        | -31.55        | -33.35        | -35.15        | -36.95        | -38.75        | -40.55        | -42.35        | -44.15        | -45.95        | -47.75        | -49.55        | -51.35        | -53.15        |               |
| 105             | 15.48         | 13.77         | 12.11         | 10.31         | 8.51          | 6.71          | 4.91          | -2.91         | -4.71         | -6.51         | -8.31         | -10.11        | -11.91        | -13.71        | -15.51        | -17.31        | -19.11        | -20.91        | -22.71        | -24.51        | -26.31        | -28.11        | -29.91        | -31.71        | -33.51        | -35.31        | -37.11        | -38.91        | -40.71        | -42.51        | -44.31        | -46.11        | -47.91        | -49.71        | -51.51        | -53.31        |               |
| 110             | 15.64         | 13.93         | 12.27         | 10.47         | 8.67          | 6.87          | 5.07          | -3.07         | -4.87         | -6.67         | -8.47         | -10.27        | -12.07        | -13.87        | -15.67        | -17.47        | -19.27        | -21.07        | -22.87        | -24.67        | -26.47        | -28.27        | -30.07        | -31.87        | -33.67        | -35.47        | -37.27        | -39.07        | -40.87        | -42.67        | -44.47        | -46.27        | -48.07        | -49.87        | -51.67        | -53.47        |               |
| 115             | 15.8          | 14.09         | 12.43         | 10.63         | 8.83          | 7.03          | 5.23          | -3.23         | -5.03         | -6.83         | -8.63         | -10.43        | -12.23        | -14.03        | -15.83        | -17.63        | -19.43        | -21.23        | -23.03        | -24.83        | -26.63        | -28.43        | -30.23        | -32.03        | -33.83        | -35.63        | -37.43        | -39.23        | -41.03        | -42.83        | -44.63        | -46.43        | -48.23        | -50.03        | -51.83        | -53.63        |               |
| 120             | 15.96         | 14.25         | 12.59         | 10.79         | 8.99          | 7.19          | 5.39          | -3.41         | -5.21         | -7.01         | -8.81         | -10.61        | -12.41        | -14.21        | -16.01        | -17.81        | -19.61        | -21.41        | -23.21        | -25.01        | -26.81        | -28.61        | -30.41        | -32.21        | -34.01        | -35.81        | -37.61        | -39.41        | -41.21        | -43.01        | -44.81        | -46.61        | -48.41        | -50.21        | -52.01        | -53.81        |               |
| 125             | 16.12         | 14.41         | 12.75         | 10.95         | 9.15          | 7.35          | 5.55          | -3.55         | -5.35         | -7.15         | -8.95         | -10.75        | -12.55        | -14.35        | -16.15        | -17.95        | -19.75        | -21.55        | -23.35        | -25.15        | -26.95        | -28.75        | -30.55        | -32.35        | -34.15        | -35.95        | -37.75        | -39.55        | -41.35        | -43.15        | -44.95        | -46.75        | -48.55        | -50.35        | -52.15        | -53.95        |               |
| 130             | 16.28         | 14.57         | 12.91         | 11.11         | 9.31          | 7.51          | 5.71          | -3.71         | -5.51         | -7.31         | -9.11         | -10.91        | -12.71        | -14.51        | -16.31        | -18.11        | -19.91        | -21.71        | -23.51        | -25.31        | -27.11        | -28.91        | -30.71        | -32.51        | -34.31        | -36.11        | -37.91        | -39.71        | -41.51        | -43.31        | -45.11        | -46.91        | -48.71        | -50.51        | -52.31        | -54.11        |               |
| 135             | 16.44         | 14.73         | 13.07         | 11.27         | 9.47          | 7.67          | 5.87          | -3.87         | -5.67         | -7.47         | -9.27         | -11.07        | -12.87        | -14.67        | -16.47        | -18.27        | -20.07        | -21.87        | -23.67        | -25.47        | -27.27        | -29.07        | -30.87        | -32.67        | -34.47        | -36.27        | -38.07        | -39.87        | -41.67        | -43.47        | -45.27        | -47.07        | -48.87        | -50.67        | -52.47        | -54.27        |               |
| 140             | 16.6          | 14.89         | 13.23         | 11.43         | 9.63          | 7.83          | 6.03          | -4.03         | -5.83         | -7.63         | -9.43         | -11.23        | -13.03        | -14.83        | -16.63        | -18.43        | -20.23        | -22.03        | -23.83        | -25.63        | -27.43        | -29.23        | -31.03        | -32.83        | -34.63        | -36.43        | -38.23        | -40.03        | -41.83        | -43.63        | -45.43        | -47.23        | -49.03        | -50.83        | -52.63        | -54.43        |               |
| 145             | 16.76         | 15.05         | 13.39         | 11.59         | 9.79          | 7.99          | 6.19          | -4.19         | -5.99         | -7.79         | -9.59         | -11.39        | -13.19        | -14.99        | -16.79        | -18.59        | -20.39        | -22.19        | -23.99        | -25.79        | -27.59        | -29.39        | -31.19        | -32.99        | -34.79        | -36.59        | -38.39        | -40.19        | -41.99        | -43.79        | -45.59        | -47.39        | -49.19        | -50.99        | -52.79        | -54.59        |               |
| 150             | 16.92         | 15.21         | 13.55         | 11.75         | 9.95          | 8.15          | 6.35          | -4.35         | -6.15         | -7.95         | -9.75         | -11.55        | -13.35        | -15.15        | -16.95        | -18.75        | -20.55        | -22.35        | -24.15        | -25.95        | -27.75        | -29.55        | -31.35        | -33.15        | -34.95        | -36.75        | -38.55        | -40.35        | -42.15        | -43.95        | -45.75        | -47.55        | -49.35        | -51.15        | -52.95        | -54.75        |               |
| 155             | 17.08         | 15.37         | 13.71         | 11.91         | 10.11         | 8.31          | 6.51          | -4.51         | -6.31         | -8.11         | -9.91         | -11.71        | -13.51        | -15.31        | -17.11        | -18.91        | -20.71        | -22.51        | -24.31        | -26.11        | -27.91        | -29.71        | -31.51        | -33.31        | -35.11        | -36.91        | -38.71        | -40.51        | -42.31        | -44.11        | -45.91        | -47.71        | -49.51        | -51.31        | -53.11        | -54.91        |               |
| 160             | 17.24         | 15.53         | 13.87         | 12.07         | 10.27         | 8.47          | 6.67          | -4.67         | -6.47         | -8.27         | -10.07        | -             |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |



# Raw Data (ANT1@2G 2500MHz)

| Theta Angle (°) | 0 | 5  | 10 | 15 | 20 | 25 | 30 | 35  | 40  | 45  | 50  | 55  | 60  | 65  | 70  | 75  | 80  | 85  | 90  | 95  | 100 | 105 | 110 | 115 | 120 | 125 | 130 | 135 | 140 | 145 | 150 | 155 | 160 | 165 | 170 | 175 | 180 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       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|       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------|---|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---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| Phi Angle (°)   | 0 | 15 | 30 | 45 | 60 | 75 | 90 | 105 | 120 | 135 | 150 | 165 | 180 | 195 | 210 | 225 | 240 | 255 | 270 | 285 | 300 | 315 | 330 | 345 | 360 | 375 | 390 | 405 | 420 | 435 | 450 | 465 | 480 | 495 | 510 | 525 | 540 | 555 | 570 | 585 | 600 | 615 | 630 | 645 | 660 | 675 | 690 | 705 | 720 | 735 | 750 | 765 | 780 | 795 | 810 | 825 | 840 | 855 | 870 | 885 | 900 | 915 | 930 | 945 | 960 | 975 | 990 | 1005 | 1020 | 1035 | 1050 | 1065 | 1080 | 1095 | 1110 | 1125 | 1140 | 1155 | 1170 | 1185 | 1200 | 1215 | 1230 | 1245 | 1260 | 1275 | 1290 | 1305 | 1320 | 1335 | 1350 | 1365 | 1380 | 1395 | 1410 | 1425 | 1440 | 1455 | 1470 | 1485 | 1500 | 1515 | 1530 | 1545 | 1560 | 1575 | 1590 | 1605 | 1620 | 1635 | 1650 | 1665 | 1680 | 1695 | 1710 | 1725 | 1740 | 1755 | 1770 | 1785 | 1800 | 1815 | 1830 | 1845 | 1860 | 1875 | 1890 | 1905 | 1920 | 1935 | 1950 | 1965 | 1980 | 1995 | 2010 | 2025 | 2040 | 2055 | 2070 | 2085 | 2100 | 2115 | 2130 | 2145 | 2160 | 2175 | 2190 | 2205 | 2220 | 2235 | 2250 | 2265 | 2280 | 2295 | 2310 | 2325 | 2340 | 2355 | 2370 | 2385 | 2400 | 2415 | 2430 | 2445 | 2460 | 2475 | 2490 | 2505 | 2520 | 2535 | 2550 | 2565 | 2580 | 2595 | 2610 | 2625 | 2640 | 2655 | 2670 | 2685 | 2700 | 2715 | 2730 | 2745 | 2760 | 2775 | 2790 | 2805 | 2820 | 2835 | 2850 | 2865 | 2880 | 2895 | 2910 | 2925 | 2940 | 2955 | 2970 | 2985 | 3000 | 3015 | 3030 | 3045 | 3060 | 3075 | 3090 | 3105 | 3120 | 3135 | 3150 | 3165 | 3180 | 3195 | 3210 | 3225 | 3240 | 3255 | 3270 | 3285 | 3300 | 3315 | 3330 | 3345 | 3360 | 3375 | 3390 | 3405 | 3420 | 3435 | 3450 | 3465 | 3480 | 3495 | 3510 | 3525 | 3540 | 3555 | 3570 | 3585 | 3600 | 3615 | 3630 | 3645 | 3660 | 3675 | 3690 | 3705 | 3720 | 3735 | 3750 | 3765 | 3780 | 3795 | 3810 | 3825 | 3840 | 3855 | 3870 | 3885 | 3900 | 3915 | 3930 | 3945 | 3960 | 3975 | 3990 | 4005 | 4020 | 4035 | 4050 | 4065 | 4080 | 4095 | 4110 | 4125 | 4140 | 4155 | 4170 | 4185 | 4200 | 4215 | 4230 | 4245 | 4260 | 4275 | 4290 | 4305 | 4320 | 4335 | 4350 | 4365 | 4380 | 4395 | 4410 | 4425 | 4440 | 4455 | 4470 | 4485 | 4500 | 4515 | 4530 | 4545 | 4560 | 4575 | 4590 | 4605 | 4620 | 4635 | 4650 | 4665 | 4680 | 4695 | 4710 | 4725 | 4740 | 4755 | 4770 | 4785 | 4800 | 4815 | 4830 | 4845 | 4860 | 4875 | 4890 | 4905 | 4920 | 4935 | 4950 | 4965 | 4980 | 4995 | 5010 | 5025 | 5040 | 5055 | 5070 | 5085 | 5100 | 5115 | 5130 | 5145 | 5160 | 5175 | 5190 | 5205 | 5220 | 5235 | 5250 | 5265 | 5280 | 5295 | 5310 | 5325 | 5340 | 5355 | 5370 | 5385 | 5400 | 5415 | 5430 | 5445 | 5460 | 5475 | 5490 | 5505 | 5520 | 5535 | 5550 | 5565 | 5580 | 5595 | 5610 | 5625 | 5640 | 5655 | 5670 | 5685 | 5700 | 5715 | 5730 | 5745 | 5760 | 5775 | 5790 | 5805 | 5820 | 5835 | 5850 | 5865 | 5880 | 5895 | 5910 | 5925 | 5940 | 5955 | 5970 | 5985 | 6000 | 6015 | 6030 | 6045 | 6060 | 6075 | 6090 | 6105 | 6120 | 6135 | 6150 | 6165 | 6180 | 6195 | 6210 | 6225 | 6240 | 6255 | 6270 | 6285 | 6300 | 6315 | 6330 | 6345 | 6360 | 6375 | 6390 | 6405 | 6420 | 6435 | 6450 | 6465 | 6480 | 6495 | 6510 | 6525 | 6540 | 6555 | 6570 | 6585 | 6600 | 6615 | 6630 | 6645 | 6660 | 6675 | 6690 | 6705 | 6720 | 6735 | 6750 | 6765 | 6780 | 6795 | 6810 | 6825 | 6840 | 6855 | 6870 | 6885 | 6900 | 6915 | 6930 | 6945 | 6960 | 6975 | 6990 | 7005 | 7020 | 7035 | 7050 | 7065 | 7080 | 7095 | 7110 | 7125 | 7140 | 7155 | 7170 | 7185 | 7200 | 7215 | 7230 | 7245 | 7260 | 7275 | 7290 | 7305 | 7320 | 7335 | 7350 | 7365 | 7380 | 7395 | 7410 | 7425 | 7440 | 7455 | 7470 | 7485 | 7500 | 7515 | 7530 | 7545 | 7560 | 7575 | 7590 | 7605 | 7620 | 7635 | 7650 | 7665 | 7680 | 7695 | 7710 | 7725 | 7740 | 7755 | 7770 | 7785 | 7800 | 7815 | 7830 | 7845 | 7860 | 7875 | 7890 | 7905 | 7920 | 7935 | 7950 | 7965 | 7980 | 7995 | 8010 | 8025 | 8040 | 8055 | 8070 | 8085 | 8100 | 8115 | 8130 | 8145 | 8160 | 8175 | 8190 | 8205 | 8220 | 8235 | 8250 | 8265 | 8280 | 8295 | 8310 | 8325 | 8340 | 8355 | 8370 | 8385 | 8400 | 8415 | 8430 | 8445 | 8460 | 8475 | 8490 | 8505 | 8520 | 8535 | 8550 | 8565 | 8580 | 8595 | 8610 | 8625 | 8640 | 8655 | 8670 | 8685 | 8700 | 8715 | 8730 | 8745 | 8760 | 8775 | 8790 | 8805 | 8820 | 8835 | 8850 | 8865 | 8880 | 8895 | 8910 | 8925 | 8940 | 8955 | 8970 | 8985 | 9000 | 9015 | 9030 | 9045 | 9060 | 9075 | 9090 | 9105 | 9120 | 9135 | 9150 | 9165 | 9180 | 9195 | 9210 | 9225 | 9240 | 9255 | 9270 | 9285 | 9300 | 9315 | 9330 | 9345 | 9360 | 9375 | 9390 | 9405 | 9420 | 9435 | 9450 | 9465 | 9480 | 9495 | 9510 | 9525 | 9540 | 9555 | 9570 | 9585 | 9600 | 9615 | 9630 | 9645 | 9660 | 9675 | 9690 | 9705 | 9720 | 9735 | 9750 | 9765 | 9780 | 9795 | 9810 | 9825 | 9840 | 9855 | 9870 | 9885 | 9900 | 9915 | 9930 | 9945 | 9960 | 9975 | 9990 | 10005 | 10020 | 10035 | 10050 | 10065 | 10080 | 10095 | 10110 | 10125 | 10140 | 10155 | 10170 | 10185 | 10200 | 10215 | 10230 | 10245 | 10260 | 10275 | 10290 | 10305 | 10320 | 10335 | 10350 | 10365 | 10380 | 10395 | 10410 | 10425 | 10440 | 10455 | 10470 | 10485 | 10500 | 10515 | 10530 | 10545 | 10560 | 10575 | 10590 | 10605 | 10620 | 10635 | 10650 | 10665 | 10680 | 10695 | 10710 | 10725 | 10740 | 10755 | 10770 | 10785 | 10800 | 10815 | 10830 | 10845 | 10860 | 10875 | 10890 | 10905 | 10920 | 10935 | 10950 | 10965 | 10980 | 10995 | 11010 | 11025 | 11040 | 11055 | 11070 | 11085 | 11100 | 11115 | 11130 | 11145 | 11160 | 11175 | 11190 | 11205 | 11220 | 11235 | 11250 | 11265 | 11280 | 11295 | 11310 | 11325 | 11340 | 11355 | 11370 | 11385 | 11400 | 11415 | 11430 | 11445 | 11460 | 11475 | 11490 | 11505 | 11520 | 11535 | 11550 | 11565 | 11580 | 11595 | 11610 | 11625 | 11640 | 11655 | 11670 | 11685 | 11700 | 11715 | 11730 | 11745 | 11760 | 11775 | 11790 | 11805 | 11820 | 11835 | 11850 | 11865 | 11880 | 11895 | 11910 | 11925 | 11940 | 11955 | 11970 | 11985 | 12000 | 12015 | 12030 | 12045 | 12060 | 12075 | 12090 | 12105 | 12120 | 12135 | 12150 | 12165 | 12180 | 12195 | 12210 | 12225 | 12240 | 12255 | 12270 | 12285 | 12300 | 12315 | 12330 | 12345 | 12360 | 12375 | 12390 | 12405 | 12420 | 12435 | 12450 | 12465 | 12480 | 12495 | 12510 | 12525 | 12540 | 12555 | 12570 | 12585 | 12600 | 12615 | 12630 | 12645 | 12660 | 12675 | 12690 | 12705 | 12720 | 12735 | 12750 | 12765 | 12780 | 12795 | 12810 | 12825 | 12840 | 12855 | 12870 | 12885 | 12900 | 12915 | 12930 | 12945 | 12960 | 12975 | 12990 | 13005 | 13020 | 13035 | 13050 | 13065 | 13080 | 13095 | 13110 | 13125 | 13140 | 13155 | 13170 | 13185 | 13200 | 13215 | 13230 | 13245 | 13260 | 13275 | 13290 | 13305 | 13320 | 13335 | 13350 | 13365 | 13380 | 13395 | 13410 | 13425 | 13440 | 13455 | 13470 | 13485 | 13500 | 13515 | 13530 | 13545 | 13560 | 13575 | 13590 | 13605 | 13620 | 13635 | 13650 | 13665 | 13680 | 13695 | 13710 | 13725 | 13740 | 13755 | 13770 | 13785 | 13800 | 13815 | 13830 | 13845 | 13860 | 13875 | 13890 | 13905 | 13920 | 13935 | 13950 | 13965 | 13980 | 13995 | 14010 | 14025 | 14040 | 14055 | 14070 | 14085 | 14100 | 14115 | 14130 | 14145 | 14160 | 14175 | 14190 | 14205 | 14220 | 14235 | 14250 | 14265 | 14280 | 14295 | 14310 | 14325 | 14340 | 14355 | 14370 | 14385 | 14400 | 14415 | 14430 | 14445 | 14460 | 14475 | 14490 | 14505 | 14520 | 14535 | 14550 | 14565 | 14580 | 14595 | 14610 | 14625 | 14640 | 14655 | 14670 | 14685 | 14700 | 14715 | 14730 | 14745 | 14760 | 14775 | 14790 | 14805 | 14820 | 14835 | 14850 | 14865 | 14880 | 14895 | 14910 | 14925 | 14940 | 14955 | 14970 | 14985 | 15000 | 15015 | 15030 | 15045 | 15060 | 15075 | 15090 | 15105 | 15120 | 15135 | 15150 | 15165 | 15180 | 15195 | 15210 | 15225 | 15240 | 15255 | 15270 | 15285 | 15300 | 15315 | 15330 | 15345 | 15360 | 15375 | 15390 | 15405 | 15420 | 15435 | 15450 | 15465 | 15480 | 15495 | 15510 | 15525 | 15540 | 15555 | 15570 | 15585 | 15600 | 15615 | 15630 | 15645 | 15660 | 15675 | 15690 | 15705 | 15720 | 15735 | 15750 | 15765 | 15780 | 15795 | 15810 | 15825 | 15840 | 15855 | 15870 | 15885 | 15900 | 15915 | 15930 | 15945 | 15960 | 15975 | 15990 | 16005 | 16020 | 16035 | 16050 | 16065 | 16080 | 16095 | 16110 | 16125 | 16140 | 16155 | 16170 | 16185 | 16200 | 16215 | 16230 | 16245 | 16260 | 16275 | 16290 | 16305 | 16320 | 16335 | 16350 | 16365 | 16380 | 16395 | 16410 | 16425 | 16440 | 16455 | 16470 | 16485 | 16500 | 16515 | 16530 | 16545 | 16560 | 16575 | 16590 | 16605 | 16620 | 16635 | 16650 | 16665 | 16680 | 16695 | 16710 | 16725 | 16740 | 16755 | 16770 | 16785 | 16800 | 16815 | 16830 | 16845 | 16860 | 16875 | 16890 | 16905 | 16920 | 16935 | 16950 | 16965 | 16980 | 16995 | 17010 | 17025 | 17040 | 17055 | 17070 | 17085 | 17100 | 17115 | 17130 | 17145 | 17160 | 17175 | 17190 | 17205 | 17220 | 17235 | 17250 | 17265 | 17280 | 17295 | 17310 | 17325 | 17340 | 17355 | 17370 | 17385 | 17400 | 17415 | 17430 | 17445 | 17460 | 17475 | 17490 | 17505 | 17520 | 17535 | 17550 | 17565 | 17580 | 17595 | 17610 | 17625 | 17640 | 17655 | 17670 | 17685 | 17700 | 17715 | 17730 | 17745 | 17760 | 17775 | 17790 | 17805 | 17820 | 17835 | 17850 | 17865 | 17880 | 17895 | 17910 | 17925 | 17940 | 17955 | 17970 | 17985 | 18000 | 18015 | 18030 | 18045 | 18060 | 18075 | 18090 | 18105 | 18120 | 18135 | 18150 | 18165 | 18180 | 18195 | 18210 | 18225 | 18240 | 18255 | 18270 | 18285 | 18300 | 18315 | 18330 | 18345 | 18360 | 18375 | 18390 | 18405 | 18420 | 18435 | 18450 | 18465 | 18480 | 18495 | 18510 | 18525 | 18540 | 18555 | 18570 | 18585 | 18600 | 18615 | 18630 | 18645 | 18660 | 18675 | 18690 | 18705 | 18720 | 18735 | 18750 | 18765 | 18780 | 18795 | 18810 | 18825 | 18840 | 18855 | 18870 | 18885 | 18900 | 18915 | 18930 | 18945 | 18960 | 18975 | 18990 | 19005 | 19020 | 19035 | 19050 | 19065 | 19080 | 19095 | 19110 |

# Raw Data (ANT2@2G 2400MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |               |      |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |      |
| 0_21.2          | 1.62          | 1.23          | 0.76          | 0.55          | 0.24          | 0.12          | 0.07          | 0.03          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          | 0.01          |               |      |
| 5_21.2          | 1.56          | 1.01          | 0.46          | 0.23          | 0.01          | 0.22          | 0.52          | 0.81          | 1.11          | 0.99          | 0.88          | 0.76          | 0.01          | 0.74          | 1.49          | 2.54          | 3.6           | 4.65          | 4.98          | 5.3           | 5.63          | 6.04          | 6.44          | 6.85          | 6.9           | 6.95          | 7             | 7.25          | 7.49          | 7.74          | 7.41          | 7.08          | 6.76          | 7.78          | 8.8           | 9.82          | 9.82          | 9.82          |      |
| 10_21.2         | 1.46          | 0.8           | 0.15          | 0.06          | 0.27          | 0.47          | 0.71          | 0.95          | 1.19          | 1.05          | 0.92          | 0.79          | 0.04          | 0.71          | 1.46          | 2.48          | 3.5           | 4.52          | 4.98          | 5.45          | 5.91          | 6.46          | 6.94          | 7.35          | 7.68          | 7.99          | 7.44          | 7.79          | 8.14          | 7.78          | 7.41          | 7.05          | 7.97          | 8.99          | 9.82          | 9.82          | 9.82          |               |      |
| 15_21.2         | 1.36          | 0.6           | 0.16          | 0.35          | 0.54          | 0.73          | 0.91          | 1.09          | 1.27          | 1.12          | 0.96          | 0.81          | 0.06          | 0.69          | 1.44          | 2.42          | 3.4           | 4.39          | 4.99          | 5.59          | 6.2           | 6.33          | 6.47          | 6.61          | 6.8           | 6.99          | 7.18          | 7.64          | 8.09          | 8.54          | 8.14          | 7.74          | 7.34          | 8.17          | 8.99          | 9.82          | 9.82          | 9.82          |      |
| 20_21.2         | 1.26          | 0.4           | 0.46          | 0.64          | 0.81          | 0.99          | 1.11          | 1.23          | 1.35          | 1.18          | 1.01          | 0.85          | 0.09          | 0.66          | 1.42          | 2.36          | 3.31          | 4.25          | 5             | 5.74          | 6.48          | 6.48          | 6.48          | 6.75          | 7.01          | 7.28          | 7.83          | 8.38          | 8.94          | 8.5           | 8.07          | 7.64          | 8.36          | 8.99          | 9.82          | 9.82          | 9.82          |               |      |
| 25_21.2         | 1.16          | 0.21          | 0.74          | 0.91          | 1.08          | 1.26          | 1.31          | 1.37          | 1.43          | 1.32          | 1.22          | 1.11          | 0.28          | 0.56          | 1.39          | 2.31          | 3.21          | 4.12          | 5             | 5.88          | 6.77          | 6.63          | 6.5           | 6.36          | 6.7           | 7.03          | 7.37          | 7.88          | 8.39          | 8.91          | 8.58          | 8.26          | 7.93          | 8.56          | 9.19          | 9.82          | 9.82          | 9.82          |      |
| 30_21.2         | 1.09          | 0.47          | 0.35          | 0.74          | 1.13          | 1.53          | 1.56          | 1.59          | 1.62          | 1.54          | 1.45          | 1.37          | 0.46          | 0.46          | 1.37          | 2.26          | 3.16          | 4.05          | 5.05          | 6.05          | 7.05          | 6.83          | 6.6           | 6.37          | 6.65          | 6.92          | 7.19          | 7.69          | 8.18          | 8.67          | 8.51          | 8.35          | 8.19          | 8.73          | 9.28          | 9.82          | 9.82          | 9.82          |      |
| 35_21.2         | 1.42          | 0.73          | 0.04          | 0.57          | 1.18          | 1.79          | 1.81          | 1.82          | 1.83          | 1.76          | 1.7           | 1.63          | 0.66          | 0.31          | 1.29          | 2.24          | 3.2           | 4.16          | 5.17          | 6.18          | 7.19          | 6.97          | 6.76          | 6.54          | 6.69          | 6.85          | 7             | 7.48          | 7.95          | 8.43          | 8.44          | 8.45          | 8.46          | 8.49          | 9.06          | 9.82          | 9.82          | 9.82          |      |
| 40_21.2         | 1.55          | 0.99          | 0.42          | 0.4           | 1.23          | 2.06          | 2.05          | 2.05          | 2.04          | 1.99          | 1.94          | 1.89          | 0.87          | 0.14          | 1.16          | 2.2           | 3.23          | 4.27          | 5.24          | 6.22          | 7.19          | 7.03          | 6.86          | 6.7           | 6.73          | 6.77          | 6.81          | 7.27          | 7.73          | 8.2           | 8.37          | 8.54          | 8.72          | 9.09          | 9.45          | 9.82          | 9.82          | 9.82          |      |
| 45_21.2         | 1.68          | 1.25          | 0.81          | 0.23          | 1.28          | 2.33          | 2.3           | 2.27          | 2.25          | 2.22          | 2.19          | 2.15          | 1.09          | 0.03          | 1.04          | 2.15          | 3.26          | 4.37          | 5.31          | 6.25          | 7.19          | 7.08          | 6.97          | 6.86          | 6.78          | 6.69          | 6.61          | 7.06          | 7.51          | 7.96          | 8.3           | 8.64          | 8.98          | 9.26          | 9.54          | 9.82          | 9.82          | 9.82          |      |
| 50_21.2         | 1.81          | 1.51          | 1.2           | 0.86          | 1.33          | 2.6           | 2.55          | 2.5           | 2.45          | 2.44          | 2.41          | 2.42          | 1.31          | 0.22          | 0.91          | 2.1           | 3.29          | 4.48          | 5.39          | 6.29          | 7.19          | 7.14          | 7.08          | 7.02          | 6.82          | 6.62          | 6.42          | 6.85          | 7.29          | 7.72          | 8.23          | 8.74          | 9.24          | 9.44          | 9.63          | 9.82          | 9.82          | 9.82          |      |
| 55_21.2         | 1.94          | 1.77          | 1.59          | 1.11          | 1.38          | 2.86          | 2.8           | 2.73          | 2.66          | 2.67          | 2.67          | 2.68          | 1.52          | 0.37          | 0.79          | 2.06          | 3.32          | 4.59          | 5.46          | 6.33          | 7.2           | 7.19          | 7.19          | 7.19          | 6.87          | 6.54          | 6.22          | 6.64          | 7.06          | 7.48          | 8.16          | 8.83          | 9.51          | 9.61          | 9.71          | 9.82          | 9.82          | 9.82          |      |
| 60_21.2         | 2.07          | 2.03          | 1.98          | 1.28          | 1.43          | 3.13          | 3.05          | 2.96          | 2.87          | 2.89          | 2.92          | 2.94          | 1.74          | 0.54          | 0.67          | 2.01          | 3.36          | 4.7           | 5.53          | 6.36          | 7.2           | 7.25          | 7.3           | 7.35          | 6.91          | 6.47          | 6.03          | 6.43          | 6.84          | 7.25          | 8.09          | 8.93          | 9.77          | 9.79          | 9.8           | 9.82          | 9.82          | 9.82          |      |
| 65_21.2         | 2.2           | 2.29          | 2.37          | 0.45          | 1.48          | 3.4           | 3.29          | 3.19          | 3.08          | 3.12          | 3.16          | 3.2           | 1.95          | 0.7           | 0.54          | 1.96          | 3.39          | 4.81          | 5.61          | 6.44          | 7.2           | 7.3           | 7.41          | 7.51          | 6.95          | 6.39          | 5.83          | 6.23          | 6.62          | 7.01          | 8.02          | 9.03          | 10.03         | 9.96          | 9.89          | 9.82          | 9.82          | 9.82          |      |
| 70_21.2         | 2.33          | 2.55          | 2.76          | 0.62          | 1.53          | 3.67          | 3.54          | 3.41          | 3.29          | 3.34          | 3.4           | 3.46          | 2.17          | 0.87          | 0.42          | 1.92          | 3.42          | 4.92          | 5.68          | 6.44          | 7.2           | 7.36          | 7.52          | 7.67          | 7             | 6.32          | 5.64          | 6.02          | 6.4           | 6.77          | 7.95          | 9.12          | 10.13         | 10.14         | 9.98          | 9.82          | 9.82          | 9.82          |      |
| 75_21.2         | 2.46          | 2.81          | 3.15          | 0.79          | 1.57          | 3.94          | 3.79          | 3.64          | 3.49          | 3.57          | 3.65          | 3.72          | 2.38          | 1.04          | 0.29          | 1.87          | 3.45          | 5.03          | 5.75          | 6.47          | 7.2           | 7.41          | 7.62          | 7.84          | 7             | 6.24          | 5.44          | 5.81          | 6.17          | 6.54          | 7.88          | 9.22          | 10.36         | 10.31         | 10.06         | 9.82          | 9.82          | 9.82          |      |
| 80_21.2         | 2.59          | 3.06          | 3.54          | 1.05          | 1.43          | 3.92          | 3.84          | 3.77          | 3.7           | 3.76          | 3.82          | 3.88          | 2.53          | 1.18          | 0.17          | 1.83          | 3.48          | 5.14          | 5.82          | 6.51          | 7.2           | 7.47          | 7.73          | 8             | 7.08          | 6.17          | 5.25          | 5.6           | 5.95          | 6.31          | 7.81          | 9.31          | 10.82         | 10.49         | 10.15         | 9.82          | 9.82          | 9.82          |      |
| 85_21.2         | 2.72          | 3.32          | 3.93          | 1.35          | 1.22          | 3.79          | 3.83          | 3.87          | 3.91          | 3.81          | 3.72          | 3.62          | 3.4           | 1.18          | 0.05          | 1.78          | 3.51          | 5.24          | 5.9           | 6.55          | 7.2           | 7.52          | 7.84          | 8.16          | 7.73          | 6.69          | 5.66          | 5.39          | 5.73          | 6.06          | 7.74          | 9.41          | 11.08         | 10.66         | 10.24         | 9.82          | 9.82          | 9.82          |      |
| 90_21.2         | 2.83          | 3.54          | 4.25          | 1.61          | 1.03          | 3.67          | 3.81          | 3.94          | 4             | 3.84          | 3.6           | 3.36          | 3.27          | 1.17          | 0.08          | 1.73          | 3.54          | 5.35          | 5.97          | 6.58          | 7.2           | 7.57          | 7.95          | 8.32          | 7.17          | 6.02          | 4.86          | 5.2           | 5.54          | 5.88          | 7.7           | 9.52          | 11.35         | 10.84         | 10.33         | 9.82          | 9.82          | 9.82          |      |
| 95_21.2         | 2.78          | 3.45          | 4.11          | 1.56          | 0.96          | 3.55          | 3.66          | 3.76          | 3.86          | 3.61          | 3.36          | 3.1           | 3.14          | 1.17          | 0.28          | 1.69          | 3.57          | 5.46          | 6.04          | 6.62          | 7.2           | 7.62          | 8.05          | 8.47          | 7.2           | 5.94          | 4.67          | 5.12          | 5.56          | 6.01          | 7.77          | 9.52          | 11.28         | 10.79         | 10.3          | 9.82          | 9.82          | 9.82          |      |
| 100_21.2        | 2.74          | 3.35          | 3.97          | 1.51          | 0.86          | 3.43          | 3.5           | 3.58          | 3.66          | 3.39          | 3.12          | 2.88          | 3.01          | 1.16          | 0.32          | 1.58          | 3.49          | 5.49          | 6.04          | 6.6           | 7.2           | 7.65          | 8.08          | 8.5           | 7.24          | 5.96          | 4.74          | 5.03          | 5.46          | 6.04          | 7.81          | 9.59          | 11.39         | 10.73         | 10.27         | 9.82          | 9.82          | 9.82          |      |
| 105_21.2        | 2.69          | 3.26          | 3.83          | 1.45          | 0.93          | 3.31          | 3.35          | 3.4           | 3.45          | 3.16          | 2.87          | 2.59          | 2.81          | 1.04          | 0.26          | 1.57          | 3.41          | 5.25          | 5.9           | 6.54          | 7.19          | 7.57          | 7.94          | 8.37          | 6.87          | 5.58          | 4.28          | 4.94          | 5.61          | 6.28          | 7.88          | 9.49          | 11.09         | 10.67         | 10.24         | 9.82          | 9.82          | 9.82          |      |
| 110_21.2        | 2.64          | 3.17          | 3.69          | 1.4           | 0.89          | 3.19          | 3.2           | 3.22          | 3.24          | 2.94          | 2.63          | 2.33          | 2.55          | 0.78          | 0.7           | 1.7           | 3.4           | 5.1           | 5.78          | 6.46          | 7.13          | 7.43          | 7.72          | 8.02          | 6.85          | 5.69          | 4.52          | 5.15          | 5.78          | 6.41          | 7.94          | 9.47          | 11            | 10.6          | 10.21         | 9.82          | 9.82          | 9.82          |      |
| 115_21.2        | 2.59          | 3.07          | 3.55          | 1.35          | 0.86          | 3.06          | 3.05          | 3.04          | 3.03          | 2.71          | 2.39          | 2.07          | 2.29          | 0.52          | 0.26          | 1.82          | 3.39          | 4.95          | 5.66          | 6.37          | 7.08          | 7.34          | 7.6           | 7.87          | 6.85          | 5.83          | 4.81          | 5.39          | 5.96          | 6.54          | 8             | 9.45          | 10.9          | 10.54         | 10.18         | 9.82          | 9.82          | 9.82          |      |
| 120_21.2        | 2.55          | 2.98          | 3.41          | 1.29          | 0.82          | 2.94          | 2.9           | 2.86          | 2.82          | 2.49          | 2.15          | 1.81          | 2.03          | 0.25          | 0.53          | 1.95          | 3.37          | 4.79          | 5.54          | 6.28          | 7.02          | 7.25          | 7.48          | 7.71          | 6.84          | 5.97          | 5.1           | 5.62          | 6.15          | 6.67          | 8.05          | 9.43          | 10.81         | 10.48         | 10.15         | 9.82          | 9.82          | 9.82          |      |
| 125_21.2        | 2.5           | 2.89          | 3.27          | 1.24          | 0.79          | 2.82          | 2.75          | 2.68          | 2.66          | 2.36          | 2.01          | 1.56          | 1.77          | 0.01          | 0.79          | 2.07          | 3.36          | 4.64          | 5.42          | 6.19          | 6.86          | 7.16          | 7.36          | 7.56          | 6.84          | 6.01          | 5.39          | 5.86          | 6.33          | 6.81          | 8.11          | 9.41          | 10.72         | 10.42         | 10.09         | 9.82          | 9.82          | 9.82          |      |
| 130_21.2        | 2.45          | 2.79          | 3.13          | 1.19          | 0.76          | 2.7           | 2.6           | 2.51          | 2.44          | 2.14          | 1.67          | 1.3           | 1.51          | 0.27          | 0.55          | 2.7           | 3.35          | 4.49          | 5.3           | 6.1           | 6.91          | 7.07          | 7.24          | 7.41          | 6.83          | 6.04          | 5.68          | 6.1           | 6.52          | 6.94          | 8.17          | 9.39          | 10.67         | 10.35         | 10.02         | 9.82          | 9.82          | 9.82          |      |
| 135_21.2        | 2.41          | 2.7           | 2.99          | 1.13          | 0.72          | 2.58          | 2.45          | 2.33          | 2.2           | 1.81          | 1.43          | 1.04          | 1.25          | 0.53          | 0.31          | 2.32          | 3.33          | 4.34          | 5.18          | 6.01          | 6.85          | 6.99          | 7.12          | 7.26          | 6.83          | 6.4           | 5.97          | 6.33          | 6.7           | 7.07          | 8.22          | 9.38          | 10.53         | 10.29         | 10.05         | 9.82          | 9.82          | 9.82          |      |
| 140_21.2        | 2.36          | 2.6           | 2.85          | 1.08          | 0.69          | 2.46          | 2.3           | 2.3           | 2.15          | 1.99          | 1.59          | 1.19          | 0.78          | 0.5           | 0.79          | 1.58          | 2.45          | 3.32          | 4.19          | 5.06          | 5.92          | 6.79          | 6.9           | 7             | 7.11          | 6.83          | 6.54          | 6.26          | 6.57          | 6.89          | 7.2           | 8.28          | 9.36          | 10.43         | 10.23         | 10.02         | 9.82          | 9.82          | 9.82 |
| 145_21.2        | 2.31          | 2.51          | 2.71          | 1.03          | 0.65          | 2.33          | 2.15          | 1.97          | 1.78          | 1.36          | 0.94          | 0.52          | 0.26          | 1.05          | 1.84          | 2.57          | 3.31          | 4.04          | 4.94          | 5.84          | 6.73          | 6.81          | 6.88          | 6.96          | 6.82          | 6.68          | 6.55          | 6.81          | 7.07          | 7.34          | 8.34          | 9.34          | 10.34         | 10.17         | 9.99          | 9.82          | 9.82          | 9.82          |      |
| 150_21.2        | 2.27          | 2.42          | 2.57          | 0.97          | 0.62          | 2.21          | 2             | 1.79          | 1.58          | 1.14          | 0.77          | 0.27          | 0.52          | 1.31          | 2.1           | 2.7           | 3.29          | 3.89          | 4.82          | 5.75          | 6.68          | 6.72          | 6.76          | 6.81          | 6.82          | 6.83          | 6.84          | 7.05          | 7.26          | 7.47          | 8.39          | 9.32          | 10.25         | 10.1          | 9.96          | 9.82          | 9.82          | 9.82          |      |
| 155_21.2        | 2.22          | 2.32          | 2.43          | 0.92          | 0.58          | 2.09          | 1.85          | 1.61          | 1.37          | 0.91          | 0.46          | 0.21          | 0.78          | 1.57          | 2.37          | 2.87          | 3.48          | 4.37          | 5.3           | 6.26          | 6.62          | 6.63          | 6.64          | 6.66          | 6.81          | 6.97          | 7.12          | 7.28          | 7.44          | 7.6           | 8.45          | 9.3           | 10.15         | 10.04         | 9.93          | 9.82          | 9.82          | 9.82          |      |
| 160_21.2        | 2.17          | 2.23          | 2.29          | 0.84          | 0.6           | 2.05          | 1.75          | 1.46          | 1.16          | 0.69          | 0.22          | 0.25          | 1.04          | 1.84          | 2.63          | 2.95          | 3.27          | 3.58          | 4.58          | 5.57          | 6.56          | 6.54          | 6.52          | 6.5           | 6.81          | 7.11          | 7.41          | 7.52          | 7.63          | 7.73          | 8.51          | 9.28          | 10.06         | 9.98          | 9.9           | 9.82          |               |               |      |



# Raw Data (ANT2@2G 2500MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0.2             | 2.46          | 2.13          | 2.12          | 1.11          | 1.54          | 0.35          | 0.29          | 1.57          | 0.36          | 1.74          | 4.14          | 0.12          | 1.66          | 2.19          | 1.51          | 14.42         | 1.88          | 1.33          | 1.79          | 6.16          | 6.94          | 7.52          | 7.74          | 7.97          | 8.2           | 8.23          | 8.16          | 8.29          | 7.74          | 7.2           | 6.66          | 7.72          | 8.78          | 9.84          |               |               |               |
| 5.2             | 2.69          | 2.35          | 2.01          | 1.67          | 0.98          | 0.3           | 0.39          | 0.95          | 0.51          | 2.08          | 1.68          | 1.27          | 1.87          | 1.04          | 0.8           | 1.64          | 2.65          | 3.67          | 4.68          | 5.12          | 5.36          | 6             | 6.44          | 6.89          | 7.33          | 7.58          | 7.83          | 8.08          | 8.42          | 8.75          | 9.09          | 9.35          | 9.62          | 9.88          | 7.87          | 8.95          | 9.84          |
| 10.2            | 2.69          | 2.24          | 1.79          | 1.34          | 0.83          | 0.33          | 0.17          | 0.82          | 1.46          | 2.1           | 1.61          | 1.13          | 0.65          | 0.11          | 0.86          | 1.62          | 2.73          | 3.84          | 4.94          | 5.37          | 5.79          | 6.21          | 6.54          | 6.86          | 7.18          | 7.44          | 7.7           | 7.96          | 8.6           | 9.25          | 9.89          | 8.96          | 8.03          | 7.1           | 8.01          | 8.93          | 9.84          |
| 15.2            | 2.69          | 2.13          | 1.57          | 1             | 0.68          | 0.36          | 0.04          | 0.68          | 1.4           | 2.12          | 1.55          | 0.99          | 0.42          | 0.25          | 0.93          | 1.6           | 2.8           | 4             | 5.2           | 5.61          | 6.02          | 6.43          | 6.63          | 6.83          | 7.04          | 7.31          | 7.58          | 7.84          | 8.79          | 9.74          | 10.69         | 9.57          | 8.44          | 7.32          | 8.16          | 9             | 9.84          |
| 20.2            | 2.69          | 2.02          | 1.34          | 0.67          | 0.47          | 0.27          | 0.07          | 1.66          | 1.4           | 2.14          | 1.5           | 0.96          | 0.22          | 0.38          | 0.98          | 1.58          | 2.87          | 4.17          | 5.46          | 5.85          | 6.25          | 6.64          | 6.72          | 6.81          | 6.89          | 7.17          | 7.45          | 7.73          | 8.98          | 10.23         | 11.49         | 10.17         | 8.86          | 7.54          | 8.31          | 9.07          | 9.84          |
| 25.2            | 2.69          | 1.92          | 1.14          | 0.37          | 0.13          | 0.11          | 0.34          | 0.95          | 0.55          | 2.16          | 1.61          | 1.05          | 0.5           | 0.19          | 0.87          | 1.56          | 2.95          | 4.13          | 5.72          | 6.1           | 6.48          | 6.85          | 6.82          | 6.78          | 6.74          | 7.03          | 7.32          | 7.61          | 8.86          | 10.12         | 11.38         | 10.17         | 8.97          | 7.76          | 8.46          | 9.15          | 9.84          |
| 30.2            | 2.69          | 2.04          | 1.39          | 0.74          | 0.24          | 0.26          | 0.76          | 1.28          | 0.81          | 2.33          | 1.81          | 1.3           | 0.78          | 0.01          | 0.77          | 1.54          | 2.99          | 4.45          | 5.9           | 6.29          | 6.68          | 7.07          | 6.93          | 6.8           | 6.67          | 6.91          | 7.15          | 7.39          | 8.54          | 9.69          | 10.84         | 9.86          | 8.87          | 7.89          | 8.54          | 9.19          | 9.84          |
| 35.2            | 2.69          | 2.17          | 1.64          | 1.12          | 0.36          | 0.41          | 1.17          | 1.62          | 2.07          | 2.52          | 2.03          | 1.55          | 1.06          | 0.22          | 0.63          | 1.47          | 2.99          | 4.9           | 5.85          | 6.29          | 6.73          | 7.17          | 7.01          | 6.85          | 6.69          | 6.85          | 7.01          | 7.17          | 8.21          | 9.26          | 10.3          | 9.54          | 8.77          | 8             | 8.62          | 9.23          | 9.84          |
| 40.2            | 2.69          | 2.29          | 1.89          | 1.3           | 0.47          | 0.56          | 1.58          | 1.96          | 2.33          | 2.7           | 2.25          | 1.79          | 1.34          | 0.44          | 0.46          | 1.36          | 2.84          | 4.32          | 5.8           | 6.25          | 6.71          | 7.17          | 7.01          | 6.85          | 6.67          | 6.78          | 6.86          | 6.95          | 7.89          | 8.83          | 9.76          | 9.22          | 8.67          | 8.12          | 8.69          | 9.27          | 9.84          |
| 45.2            | 2.69          | 2.42          | 2.14          | 1.87          | 0.58          | 0.71          | 2.5           | 2.29          | 2.59          | 2.89          | 2.46          | 2.04          | 1.62          | 0.66          | 0.3           | 1.26          | 2.76          | 4.25          | 5.75          | 6.22          | 6.69          | 7.17          | 7.01          | 6.86          | 6.71          | 6.72          | 6.72          | 7.56          | 8.39          | 9.23          | 8.9           | 8.57          | 8.24          | 8.77          | 9.31          | 9.84          |               |
| 50.2            | 2.69          | 2.54          | 2.4           | 2.25          | 0.69          | 0.86          | 2.41          | 2.63          | 2.85          | 3.07          | 2.68          | 2.39          | 1.9           | 1.88          | 0.14          | 1.15          | 2.67          | 4.18          | 5.7           | 6.18          | 6.67          | 7.16          | 7.01          | 6.87          | 6.72          | 6.65          | 6.58          | 6.5           | 7.23          | 7.96          | 8.69          | 8.38          | 8.47          | 8.36          | 8.85          | 9.34          | 9.84          |
| 55.2            | 2.69          | 2.67          | 2.65          | 2.62          | 0.81          | 1.01          | 2.83          | 2.97          | 3.11          | 3.26          | 2.9           | 2.54          | 2.18          | 1.1           | 0.03          | 1.05          | 2.58          | 4.12          | 5.65          | 6.15          | 6.65          | 7.15          | 7.01          | 6.88          | 6.74          | 6.58          | 6.43          | 6.28          | 6.9           | 7.53          | 8.15          | 8.26          | 8.37          | 8.47          | 8.93          | 9.38          | 9.84          |
| 60.2            | 2.69          | 2.79          | 2.9           | 3             | 0.92          | 1.16          | 3.24          | 3.31          | 3.38          | 3.44          | 3.11          | 2.78          | 2.46          | 1.32          | 0.19          | 0.94          | 2.49          | 4.05          | 5.6           | 6.12          | 6.63          | 7.15          | 7.02          | 6.88          | 6.75          | 6.52          | 6.29          | 6.05          | 6.57          | 7.09          | 7.61          | 7.94          | 8.27          | 8.59          | 9.01          | 9.42          | 9.84          |
| 65.2            | 2.69          | 2.92          | 3.15          | 3.38          | 1.03          | 1.31          | 3.66          | 3.65          | 3.64          | 3.63          | 3.33          | 3.03          | 2.73          | 1.54          | 0.35          | 0.84          | 2.41          | 3.98          | 5.55          | 6.08          | 6.61          | 7.14          | 7.02          | 6.89          | 6.76          | 6.45          | 6.14          | 5.83          | 6.25          | 6.66          | 7.08          | 7.62          | 8.16          | 8.71          | 9.09          | 9.46          | 9.84          |
| 70.2            | 2.69          | 3.05          | 3.4           | 3.75          | 1.14          | 1.46          | 4.07          | 3.99          | 3.9           | 3.81          | 3.55          | 3.28          | 3.01          | 1.76          | 0.52          | 1.33          | 2.32          | 3.91          | 5.5           | 6.05          | 6.59          | 7.14          | 7.02          | 6.9           | 6.78          | 6.39          | 6             | 5.61          | 5.92          | 6.23          | 6.54          | 7.3           | 8.06          | 8.83          | 9.16          | 9.5           | 9.84          |
| 75.2            | 2.69          | 3.17          | 3.65          | 4.13          | 1.26          | 1.62          | 4.43          | 4.32          | 4.16          | 4             | 3.76          | 3.53          | 3.29          | 1.99          | 0.68          | 0.63          | 2.23          | 3.84          | 5.45          | 6.01          | 6.57          | 7.14          | 7.02          | 6.91          | 6.79          | 6.32          | 5.85          | 5.38          | 5.59          | 5.9           | 6             | 6.98          | 7.96          | 8.94          | 9.24          | 9.84          |               |
| 80.2            | 2.69          | 3.3           | 3.9           | 4.5           | 1.52          | 1.46          | 4.44          | 4.35          | 4.27          | 4.18          | 3.94          | 3.7           | 3.47          | 2.14          | 0.81          | 0.81          | 2.52          | 2.15          | 3.77          | 5.4           | 5.98          | 6.55          | 7.13          | 7.02          | 6.91          | 6.8           | 6.26          | 5.71          | 5.16          | 5.26          | 5.36          | 5.46          | 6.66          | 7.86          | 9.06          | 9.32          | 9.84          |
| 85.2            | 2.69          | 3.42          | 4.15          | 4.88          | 1.85          | 1.19          | 4.22          | 4.27          | 4.32          | 4.37          | 3.98          | 3.6           | 3.21          | 2             | 0.79          | 0.42          | 2.06          | 3.71          | 5.35          | 5.94          | 6.53          | 7.13          | 7.02          | 6.92          | 6.82          | 6.19          | 5.56          | 4.94          | 4.93          | 4.93          | 4.92          | 6.34          | 7.76          | 9.18          | 9.4           | 9.62          | 9.84          |
| 90.2            | 2.69          | 3.53          | 4.36          | 5.19          | 2.13          | 0.94          | 4.01          | 4.17          | 4.34          | 4.42          | 3.99          | 3.48          | 2.96          | 1.87          | 0.78          | 0.31          | 1.97          | 3.64          | 5.3           | 5.91          | 6.52          | 7.12          | 7.03          | 6.93          | 6.83          | 6.13          | 5.42          | 4.65          | 4.38          | 4.51          | 6.1           | 7.7           | 9.3           | 9.48          | 9.66          | 9.84          |               |
| 95.2            | 2.69          | 3.47          | 4.25          | 5.03          | 2.09          | 0.85          | 3.79          | 3.96          | 4.13          | 4.29          | 3.76          | 3.24          | 2.71          | 1.74          | 0.77          | 0.21          | 1.89          | 3.57          | 5.25          | 5.87          | 6.5           | 7.12          | 7.03          | 6.93          | 6.84          | 6.06          | 5.28          | 4.49          | 4.61          | 4.72          | 4.83          | 6.32          | 7.8           | 9.29          | 9.47          | 9.65          | 9.84          |
| 100.2           | 2.69          | 3.42          | 4.15          | 4.87          | 2.08          | 0.76          | 3.58          | 3.74          | 3.91          | 4.08          | 3.54          | 3.02          | 2.46          | 1.6           | 0.78          | 0.11          | 1.78          | 3.46          | 5.14          | 5.8           | 6.46          | 7.11          | 7.02          | 6.92          | 6.82          | 5.97          | 5.12          | 4.26          | 4.36          | 4.51          | 6.03          | 7.53          | 8.99          | 9.26          | 9.46          | 9.84          |               |
| 105.2           | 2.69          | 3.37          | 4.04          | 4.71          | 2.02          | 0.67          | 3.36          | 3.53          | 3.7           | 3.86          | 3.31          | 2.76          | 2.2           | 1.44          | 0.67          | 0.1           | 1.73          | 3.36          | 5             | 5.7           | 6.41          | 7.11          | 7.01          | 6.9           | 6.79          | 5.88          | 4.96          | 4.05          | 4.33          | 5             | 6.2           | 7.48          | 8.74          | 9.09          | 9.24          | 9.44          | 9.84          |
| 110.2           | 2.69          | 3.31          | 3.93          | 4.55          | 1.99          | 0.58          | 3.15          | 3.31          | 3.48          | 3.65          | 3.08          | 2.52          | 1.95          | 1.23          | 0.52          | 0.2           | 1.75          | 3.3           | 4.85          | 5.61          | 6.37          | 7.13          | 7.01          | 6.89          | 6.77          | 5.98          | 5.19          | 4.4           | 4.87          | 5.34          | 5.81          | 6.95          | 8.08          | 9.22          | 9.43          | 9.63          | 9.84          |
| 115.2           | 2.69          | 3.26          | 3.83          | 4.39          | 1.95          | 0.49          | 2.93          | 3.1           | 3.26          | 3.43          | 2.85          | 2.28          | 1.7           | 1.03          | 0.36          | 0.31          | 1.78          | 3.24          | 4.71          | 5.52          | 6.34          | 7.15          | 7.01          | 6.88          | 6.74          | 6.1           | 5.46          | 4.82          | 5.26          | 5.7           | 6.44          | 7.76          | 8.18          | 9.2           | 9.41          | 9.62          | 9.84          |
| 120.2           | 2.69          | 3.21          | 3.72          | 4.23          | 1.92          | 0.4           | 2.72          | 2.88          | 3.05          | 3.21          | 2.62          | 2.04          | 1.45          | 0.83          | 0.21          | 0.41          | 1.8           | 3.18          | 4.56          | 5.43          | 6.3           | 7.17          | 7.02          | 6.87          | 6.72          | 6.22          | 5.73          | 5.23          | 5.64          | 6.05          | 6.46          | 7.37          | 8.27          | 9.17          | 9.4           | 9.62          | 9.84          |
| 125.2           | 2.69          | 3.15          | 3.61          | 4.03          | 1.88          | 0.31          | 2.5           | 2.67          | 2.83          | 3             | 2.4           | 1.8           | 1.09          | 0.62          | 0.05          | 0.52          | 1.82          | 3.12          | 4.42          | 5.34          | 6.26          | 7.18          | 7.02          | 6.86          | 6.69          | 6.35          | 6             | 5.65          | 6.03          | 6.41          | 6.79          | 7.58          | 8.36          | 9.15          | 9.38          | 9.61          | 9.84          |
| 130.2           | 2.69          | 3.1           | 3.51          | 3.91          | 1.85          | 0.27          | 2.29          | 2.45          | 2.62          | 2.78          | 2.17          | 1.56          | 0.94          | 0.42          | 0.14          | 0.63          | 1.54          | 3.06          | 4.28          | 5.23          | 6.2           | 7.07          | 6.85          | 6.67          | 6.47          | 6.27          | 6.07          | 6.41          | 6.76          | 7.11          | 7.29          | 8.46          | 9.13          | 9.37          | 9.6           | 9.84          |               |
| 135.2           | 2.69          | 3.05          | 3.4           | 3.75          | 1.81          | 0.13          | 2.08          | 2.24          | 2.4           | 2.57          | 1.94          | 1.32          | 0.69          | 0.22          | 0.26          | 0.73          | 1.87          | 3             | 4.13          | 5.16          | 6.19          | 7.22          | 7.03          | 6.84          | 6.64          | 6.39          | 6.54          | 6.48          | 6.8           | 7.12          | 7.44          | 7.99          | 8.55          | 9.11          | 9.35          | 9.6           | 9.84          |
| 140.2           | 2.69          | 2.99          | 3.29          | 3.59          | 1.78          | 0.04          | 1.86          | 2.02          | 2.19          | 2.35          | 1.71          | 1.08          | 0.44          | 0.01          | 0.41          | 0.84          | 1.89          | 2.94          | 3.99          | 5.07          | 6.15          | 7.24          | 7.03          | 6.82          | 6.62          | 6.71          | 6.81          | 6.9           | 7.19          | 7.48          | 7.76          | 8.2           | 8.65          | 9.09          | 9.34          | 9.58          | 9.84          |
| 145.2           | 2.69          | 2.94          | 3.19          | 3.43          | 1.74          | 0.05          | 1.65          | 1.81          | 1.97          | 2.14          | 1.49          | 0.84          | 0.19          | 0.19          | 0.57          | 0.94          | 1.91          | 2.88          | 3.85          | 4.98          | 6.12          | 7.25          | 7.03          | 6.81          | 6.59          | 6.83          | 7.08          | 7.32          | 7.57          | 7.83          | 8.09          | 8.41          | 8.74          | 9.06          | 9.32          | 9.58          | 9.84          |
| 150.2           | 2.69          | 2.89          | 3.08          | 3.27          | 1.7           | 0.14          | 1.43          | 1.59          | 1.76          | 1.92          | 1.26          | 0.6           | 0.07          | 0.39          | 0.22          | 1.05          | 1.93          | 2.82          | 3.77          | 4.89          | 6.08          | 7.27          | 7.04          | 6.8           | 6.57          | 6.96          | 7.24          | 7.73          | 7.96          | 8.19          | 8.42          | 8.62          | 8.83          | 9.04          | 9.31          | 9.57          | 9.84          |
| 155.2           | 2.69          | 2.83          | 2.97          | 3.11          | 1.67          | 0.23          | 1.22          | 1.38          | 1.54          | 1.7           | 1.03          | 0.56          | 0.37          | 0.26          | 0.88          | 1.16          | 2.06          | 3.58          | 4.58          | 5.68          | 6.84          | 7.29          | 7.04          | 6.79          | 6.55          | 6.88          | 7.61          | 8.15          | 8.35          | 8.54          | 8.74          | 8.83          | 8.93          | 9.02          | 9.29          | 9.57          | 9.84          |
| 160.2           | 2.69          | 2.78          | 2.87          | 2.95          | 1.57          | 0.19          | 1.19          | 1.29          | 1.39          | 1.49          | 0.8           | 0.42          | 0.57          | 0.8           | 1.03          | 1.26          | 1.98          | 2.7           | 3.41          | 4.71          | 6.01          | 7.31          | 7.04          | 6.78          | 6.52          | 7.2           | 7.88          | 8.57          | 9.3           | 8.9           | 9.07          | 9.04          | 9.02          | 9             | 9.28          | 9.56          | 9.84          |
| 165.2           | 2.69          | 2.73          | 2.76          | 2.79          | 1.47          | 0.14          | 1.19          | 1.22          | 1.24          | 1.27          | 0.74          | 0.21          | 0.32          | 0.67          | 1.02          | 1.37          | 2             | 2.64          | 3.27          | 4.62          | 5.97          | 7.32          | 7.05          | 6.77          | 6.5           | 7.32          | 8.15          | 8.98          | 9.12          | 9.26          | 9.39          | 9.25          | 9.11          | 8.97          | 9.26          | 9.55          | 9.84          |
| 170.2           | 2.69          | 2.67          | 2.66          | 2.64          | 1.36          | 0.09          | 1.18          | 1.17          | 1.15          | 1.14          | 0.74          | 0.34          | 0.05          | 0.53          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |

# Raw Data (ANT3@2G 2400MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0.13.13         | 3.32          | 3.61          | 3.55          | 3.34          | 3.41          | 3.41          | 3.37          | 3.47          | 3.58          | 3.49          | 3.63          | 3.47          | 3.11          | 3.18          | 3.17          | 3.11          | 3.18          | 3.17          | 3.11          | 3.13          | 3.06          | 3.07          | 3.15          | 3.07          | 3.13          | 3.09          | 3.19          | 3.19          | 3.19          | 3.19          | 3.19          | 3.19          | 3.19          | 3.19          | 3.19          | 3.19          | 3.19          |
| 5.13.13         | 3.32          | 3.52          | 3.72          | 3.33          | 2.89          | 2.47          | 1.39          | 0.31          | 0.78          | 1.35          | 0.91          | 0.48          | 0.03          | 0.58          | 0.13          | 1.22          | 1.57          | 1.92          | 6.62          | 7.31          | 8.07          | 8.14          | 8.22          | 6.64          | 5.05          | 3.47          | 4.86          | 6.24          | 7.62          | 6.31          | 5             | 3.69          | 4.34          | 5             | 5.65          | 5.65          |               |
| 10.13.13        | 3.28          | 3.43          | 3.59          | 3.23          | 2.87          | 2.51          | 1.38          | 0.25          | 0.89          | 1.11          | 0.33          | 0.56          | 0.42          | 0.29          | 0.16          | 0.95          | 1.07          | 1.18          | 6.13          | 7.08          | 8.04          | 9.54          | 11.03         | 12.53         | 9.47          | 6.42          | 3.36          | 4.75          | 6.15          | 7.54          | 6.3           | 5.06          | 3.81          | 4.43          | 5.04          | 5.65          |               |
| 15.13.13        | 3.24          | 3.35          | 3.46          | 3.15          | 2.85          | 2.54          | 1.36          | 0.19          | 0.99          | 0.87          | 0.76          | 0.64          | 0.82          | 1             | 0.19          | 0.68          | 2.56          | 4.44          | 5.65          | 6.86          | 8.08          | 11            | 13.93         | 16.85         | 12.31         | 7.78          | 3.74          | 4.65          | 6.05          | 7.46          | 6.28          | 5.11          | 3.94          | 4.51          | 5.08          | 5.65          |               |
| 20.13.13        | 3.19          | 3.26          | 3.33          | 3.08          | 2.83          | 2.57          | 1.35          | 0.12          | 1.1           | 0.73          | 0.35          | 0.02          | 0.39          | 0.81          | 0.22          | 0.42          | 2.05          | 3.68          | 5.16          | 6.64          | 8.11          | 12.47         | 16.82         | 21.17         | 15.15         | 9.14          | 3.12          | 4.54          | 5.96          | 7.38          | 6.27          | 5.16          | 4.06          | 4.59          | 5.12          | 5.65          |               |
| 25.13.13        | 3.15          | 3.17          | 3.2           | 2.94          | 2.69          | 2.44          | 1.22          | 0.01          | 0.21          | 0.54          | 0.48          | 0.11          | 0.49          | 0.87          | 0.25          | 0.15          | 1.54          | 2.94          | 4.68          | 6.41          | 8.15          | 12.04         | 15.92         | 19.81         | 14.21         | 8.61          | 3.01          | 4.44          | 5.87          | 7.3           | 6.26          | 5.22          | 4.18          | 4.67          | 5.16          | 5.65          |               |
| 30.13.13        | 3.11          | 3.09          | 3.07          | 2.78          | 2.5           | 2.21          | 1.06          | 0.09          | 0.24          | 0.91          | 0.57          | 0.24          | 0.59          | 0.94          | 0.29          | 0.07          | 1.15          | 2.37          | 4.31          | 6.25          | 8.19          | 11.53         | 14.87         | 18.21         | 13.39         | 8.38          | 3.46          | 4.67          | 5.88          | 7.08          | 6.16          | 5.23          | 4.3           | 4.75          | 5.2           | 5.65          |               |
| 35.13.13        | 3.1           | 3.07          | 3.05          | 2.69          | 2.34          | 1.98          | 0.9           | 0.18          | 0.26          | 0.96          | 0.67          | 0.37          | 0.69          | 1.01          | 0.33          | 0.18          | 0.97          | 2.12          | 4.03          | 5.94          | 7.85          | 10.77         | 13.69         | 16.61         | 12.39         | 8.17          | 3.96          | 4.85          | 5.74          | 6.63          | 5.89          | 5.15          | 4.41          | 4.82          | 5.23          | 5.65          |               |
| 40.13.13        | 3.11          | 3.09          | 3.08          | 2.64          | 2.2           | 1.76          | 0.75          | 0.26          | 0.17          | 0.02          | 0.76          | 0.5           | 0.79          | 1.08          | 0.37          | 0.29          | 0.8           | 1.88          | 3.7           | 5.53          | 7.35          | 9.9           | 12.46         | 15.01         | 11.49         | 7.97          | 4.45          | 5.02          | 5.6           | 6.17          | 5.62          | 5.06          | 4.51          | 4.89          | 5.27          | 5.65          |               |
| 45.13.13        | 3.12          | 3.11          | 3.1           | 2.58          | 2.06          | 1.53          | 0.59          | 0.35          | 0.29          | 0.07          | 0.85          | 0.63          | 0.89          | 1.15          | 0.41          | 0.39          | 0.62          | 1.63          | 3.57          | 5.12          | 6.86          | 9.04          | 11.22         | 13.41         | 10.59         | 7.77          | 4.95          | 5.2           | 5.46          | 5.71          | 5.34          | 4.98          | 4.61          | 4.95          | 5.3           | 5.65          |               |
| 50.13.13        | 3.13          | 3.13          | 3.13          | 2.52          | 1.91          | 1.3           | 0.43          | 0.44          | 0.31          | 0.13          | 0.95          | 0.76          | 0.99          | 1.22          | 0.45          | 0.5           | 0.44          | 1.39          | 3.05          | 4.7           | 6.36          | 8.18          | 9.99          | 11.81         | 9.69          | 7.56          | 5.44          | 5.38          | 5.32          | 5.25          | 5.07          | 4.89          | 4.71          | 5.02          | 5.33          | 5.65          |               |
| 55.13.13        | 3.14          | 3.15          | 3.16          | 2.47          | 1.77          | 1.08          | 0.28          | 0.52          | 0.32          | 0.18          | 0.04          | 0.9           | 0.99          | 1.29          | 0.49          | 0.61          | 0.26          | 1.14          | 2.72          | 4.29          | 5.87          | 7.31          | 8.76          | 10.21         | 8.79          | 7.36          | 5.94          | 5.56          | 5.18          | 4.8           | 4.8           | 4.81          | 4.81          | 5.09          | 5.37          | 5.65          |               |
| 60.13.13        | 3.15          | 3.17          | 3.19          | 2.41          | 1.63          | 0.85          | 0.12          | 0.61          | 0.34          | 0.24          | 0.13          | 0.03          | 0.19          | 1.36          | 0.53          | 0.72          | 0.09          | 0.9           | 2.39          | 3.88          | 5.37          | 6.45          | 7.53          | 8.61          | 7.88          | 7.16          | 6.43          | 5.74          | 5.04          | 4.34          | 4.53          | 4.72          | 4.91          | 5.16          | 5.4           | 5.65          |               |
| 65.13.13        | 3.16          | 3.19          | 3.22          | 2.35          | 1.49          | 0.62          | 0.04          | 0.7           | 0.36          | 0.29          | 0.22          | 0.16          | 0.29          | 1.43          | 0.57          | 0.83          | 0.09          | 0.65          | 2.06          | 3.47          | 4.88          | 5.59          | 6.3           | 7.01          | 6.98          | 6.96          | 6.93          | 5.91          | 4.9           | 3.88          | 4.26          | 4.64          | 5.01          | 5.22          | 5.44          | 5.65          |               |
| 70.13.13        | 3.16          | 3.2           | 3.24          | 2.3           | 1.35          | 0.4           | 0.19          | 0.78          | 0.47          | 0.34          | 0.32          | 0.29          | 0.39          | 1.5           | 0.61          | 0.94          | 0.27          | 0.4           | 1.73          | 3.06          | 4.38          | 4.73          | 5.07          | 5.41          | 6.08          | 6.75          | 7.42          | 6.09          | 4.76          | 3.43          | 3.99          | 4.55          | 5.11          | 5.29          | 5.47          | 5.65          |               |
| 75.13.13        | 3.17          | 3.22          | 3.27          | 2.24          | 1.21          | 0.17          | 0.35          | 0.87          | 0.39          | 0.4           | 0.41          | 0.42          | 0.5           | 1.57          | 0.65          | 0.85          | 0.44          | 0.16          | 1.4           | 2.64          | 3.89          | 4.86          | 5.84          | 6.81          | 7.88          | 8.55          | 7.92          | 6.27          | 4.62          | 2.97          | 3.72          | 4.47          | 5.21          | 5.46          | 5.5           | 5.65          |               |
| 80.13.13        | 3.18          | 3.24          | 3.3           | 2.18          | 1.06          | 0.05          | 0.5           | 0.95          | 0.41          | 0.45          | 0.5           | 0.54          | 0.59          | 1.64          | 0.69          | 1.15          | 0.62          | 0.09          | 1.07          | 2.23          | 3.39          | 4.32          | 5.26          | 6.29          | 7.34          | 8.41          | 9.48          | 4.48          | 2.51          | 3.45          | 4.38          | 5.32          | 5.43          | 5.54          | 5.65          |               |               |
| 85.13.13        | 3.19          | 3.26          | 3.33          | 2.16          | 0.99          | 0.17          | 0.59          | 1.01          | 0.42          | 0.43          | 0.44          | 0.45          | 0.55          | 1.64          | 0.73          | 1.26          | 0.8           | 0.33          | 0.74          | 1.82          | 2.9           | 4.81          | 2.72          | 2.64          | 4.73          | 6.82          | 8.91          | 6.62          | 4.34          | 2.05          | 3.17          | 4.3           | 5.42          | 5.49          | 5.57          | 5.65          |               |
| 90.13.13        | 3.2           | 3.28          | 3.36          | 2.2           | 1.04          | 0.12          | 0.56          | 1             | 0.44          | 0.41          | 0.39          | 0.37          | 0.5           | 1.63          | 0.77          | 1.37          | 0.98          | 0.58          | 0.41          | 1.41          | 2.4           | 2.49          | 2.59          | 2.68          | 4.91          | 7.13          | 9.36          | 6.77          | 4.18          | 1.16          | 2.9           | 4.21          | 5.52          | 5.56          | 5.6           | 5.65          |               |
| 95.13.13        | 3.21          | 3.31          | 3.38          | 2.23          | 1.08          | 0.07          | 0.5           | 0.93          | 0.35          | 0.33          | 0.31          | 0.28          | 0.35          | 1.42          | 0.89          | 1.27          | 0.85          | 0.83          | 0.09          | 1             | 1.91          | 2.18          | 2.45          | 2.72          | 4.81          | 6.89          | 8.98          | 6.36          | 3.75          | 1.14          | 2.63          | 4.13          | 5.62          | 5.63          | 5.64          | 5.65          |               |
| 100.13.13       | 3.22          | 3.32          | 3.41          | 2.27          | 1.13          | 0.01          | 0.42          | 0.83          | 0.24          | 0.33          | 0.21          | 0.2           | 0.19          | 1.19          | 0.94          | 1.39          | 0.94          | 0.82          | 0.02          | 1.69          | 1.41          | 1.86          | 2.12          | 2.77          | 4.71          | 6.65          | 8.59          | 6.21          | 3.84          | 0.86          | 2.48          | 4.3           | 5.72          | 5.77          | 5.87          | 5.65          |               |
| 105.13.13       | 3.2           | 3.28          | 3.36          | 2.25          | 1.15          | 0.04          | 0.35          | 0.74          | 0.13          | 0.13          | 0.12          | 0.11          | 0.03          | 0.96          | 0.88          | 1.76          | 0.63          | 0.51          | 0.04          | 0.59          | 1.13          | 1.69          | 2.75          | 2.81          | 4.61          | 6.41          | 8.21          | 6.08          | 3.96          | 1.83          | 3.15          | 4.48          | 5.8           | 5.75          | 5.77          | 5.65          |               |
| 110.13.13       | 3.17          | 3.22          | 3.26          | 2.21          | 1.15          | 0.09          | 0.28          | 0.65          | 0.02          | 0.02          | 0.02          | 0.02          | 0.02          | 0.73          | 0.58          | 1.47          | 0.37          | 0.27          | 0.21          | 0.69          | 1.17          | 1.73          | 2.29          | 2.85          | 4.51          | 6.17          | 7.83          | 5.95          | 4.08          | 2.21          | 3.42          | 4.63          | 5.84          | 5.78          | 5.71          | 5.65          |               |
| 115.13.13       | 3.14          | 3.15          | 3.17          | 2.16          | 1.15          | 0.15          | 0.21          | 0.56          | 0.92          | 0.92          | 0.93          | 0.94          | 0.72          | 0.49          | 0.27          | 0.19          | 0.11          | 0.03          | 0.38          | 0.79          | 1.2           | 1.77          | 2.33          | 2.9           | 4.41          | 5.93          | 7.45          | 5.82          | 4.2           | 2.58          | 3.68          | 4.78          | 5.88          | 5.8           | 5.72          | 5.65          |               |
| 120.13.13       | 3.11          | 3.09          | 3.08          | 2.12          | 1.16          | 0.2           | 0.14          | 0.47          | 0.81          | 0.82          | 0.84          | 0.85          | 0.56          | 0.26          | 0.03          | 0.09          | 0.15          | 0.02          | 0.55          | 0.89          | 1.24          | 1.81          | 2.37          | 2.94          | 4.32          | 5.69          | 7.06          | 5.69          | 4.33          | 2.96          | 3.94          | 4.73          | 5.92          | 5.83          | 5.74          | 5.65          |               |
| 125.13.13       | 3.08          | 3.07          | 2.98          | 2.07          | 1.16          | 0.25          | 0.06          | 0.38          | 0.7           | 0.72          | 0.74          | 0.76          | 0.4           | 0.03          | 0.34          | 0.57          | 0.41          | 0.44          | 0.72          | 1             | 1.27          | 1.84          | 2.41          | 2.99          | 4.22          | 5.45          | 6.68          | 5.56          | 4.45          | 3.33          | 4.21          | 5.08          | 5.96          | 5.85          | 5.75          | 5.65          |               |
| 130.13.13       | 3.05          | 2.97          | 2.89          | 2.03          | 1.17          | 0.31          | 0.01          | 0.29          | 0.59          | 0.62          | 0.65          | 0.68          | 0.24          | 0.2           | 0.64          | 0.66          | 0.67          | 0.68          | 0.89          | 1.1           | 1.3           | 1.88          | 2.46          | 3.03          | 4.12          | 5.21          | 6.3           | 5.43          | 4.57          | 3.71          | 4.47          | 5.23          | 6.1           | 5.88          | 5.76          | 5.65          |               |
| 135.13.13       | 3.01          | 2.9           | 2.79          | 1.98          | 1.17          | 0.36          | 0.08          | 0.22          | 0.48          | 0.51          | 0.55          | 0.59          | 0.08          | 0.43          | 0.95          | 0.94          | 0.93          | 0.92          | 1.06          | 1.2           | 1.34          | 1.92          | 2.5           | 3.07          | 4.02          | 4.97          | 5.91          | 5.3           | 4.69          | 4.08          | 4.73          | 5.39          | 6.04          | 5.91          | 5.78          | 5.65          |               |
| 140.13.13       | 2.98          | 2.84          | 2.7           | 1.94          | 1.17          | 0.41          | 0.15          | 0.11          | 0.33          | 0.37          | 0.41          | 0.46          | 0.51          | 0.08          | 0.67          | 1.25          | 1.22          | 1.19          | 1.16          | 1.23          | 1.3           | 1.37          | 1.96          | 2.54          | 3.12          | 3.92          | 4.73          | 5.53          | 5.17          | 4.82          | 4.46          | 5             | 5.54          | 6.08          | 5.93          | 5.79          | 5.65          |
| 145.13.13       | 2.95          | 2.78          | 2.61          | 1.89          | 1.18          | 0.46          | 0.22          | 0.02          | 0.26          | 0.31          | 0.36          | 0.42          | 0.24          | 0.9           | 1.56          | 1.5           | 1.45          | 1.39          | 1.14          | 1.4           | 1.41          | 1.41          | 1.99          | 2.58          | 3.16          | 3.82          | 4.49          | 5.15          | 5.04          | 4.94          | 4.83          | 5.26          | 5.69          | 6.12          | 5.96          | 5.8           | 5.65          |
| 150.13.13       | 2.92          | 2.72          | 2.51          | 1.85          | 1.18          | 0.52          | 0.3           | 0.08          | 0.15          | 0.21          | 0.27          | 0.33          | 0.4           | 1.15          | 1.86          | 1.79          | 1.71          | 1.63          | 1.57          | 1.51          | 1.44          | 2.03          | 2.62          | 3.21          | 3.73          | 4.25          | 4.77          | 4.91          | 5.06          | 5.21          | 5.52          | 5.84          | 6.16          | 5.99          | 5.82          | 5.65          |               |
| 155.13.13       | 2.89          | 2.65          | 2.42          | 1.8           | 1.19          | 0.57          | 0.37          | 0.17          | 0.04          | 0.11          | 0.18          | 0.25          | 0.36          | 1.36          | 1.17          | 1.07          | 1.87          | 1.74          | 1.61          | 1.48          | 1.78          | 2.07          | 2.66          | 3.25          | 3.63          | 4.01          | 4.38          | 4.78          | 5.18          | 5.58          | 5.79          | 5.99          | 6.19          | 6.01          | 5.83          | 5.65          |               |
| 160.13.13       | 2.86          | 2.59          | 2.32          | 1.76          | 1.19          | 0.62          | 0.44          | 0.26          | 0.07          | 0             | 0.08          | 0.16          | 0.72          | 1.6           | 2.47          | 2.35          | 2.23          | 2.11          | 1.91          | 1.71          | 1.51          | 2.11          | 2.71          | 3.31          | 3.54          | 3.77          | 4             | 4.65          | 5.31          | 5.96          | 6.05          | 6.14          | 6.23          | 6.04          | 5.84          | 5.65          |               |
| 165.13.13       | 2.83          | 2.53          | 2.23          | 1.68          | 1.13          | 0.59          | 0.45          | 0.32          | 0.18          | 0.04          | 0.11          | 0.26          | 0.75          | 1.77          | 2.78          | 2.63          | 2.49          | 2.34          | 2.08          | 1.81          | 1.55          | 2.16          | 2.77          | 3.38          | 3.46          | 3.54          | 3.62          | 4.52          | 5.43          | 6.33          | 6.31          | 6.29          | 6.27          | 6.06          | 5.86          | 5.65          |               |
| 170.13.13       | 2.8           | 2.47          | 2.14          | 1.59          | 1.04          | 0.49          | 0.43          | 0.36          | 0.29          | 0.05          | 0.19          | 0.43          | 0.74          | 1.91          | 3.08          | 2.92          | 2.75          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |

# Raw Data (ANT3@2G 2450MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |      |     |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------|-----|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |      |     |
| 0.154           | 1.86          | 1.19          | 4.3           | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         | 15.16         |               |      |     |
| 5.154           | 3.8           | 4.05          | 4.3           | 4.22          | 4.14          | 4.06          | 2.31          | 0.56          | 1.19          | 2.8           | 2.4           | 1.41          | 2.62          | 1.91          | 4.44          | 6.97          | 6.85          | 6.72          | 6.59          | 6.03          | 5.46          | 4.9           | 4.15          | 4.41          | 2.66          | 4.41          | 6.16          | 7.91          | 6.18          | 4.45          | 2.72          | 3.7           | 4.69          | 5.67          | 4.67          | 5.67          |               |      |     |
| 10.154          | 3.73          | 3.92          | 4.11          | 4.11          | 4.11          | 4.1           | 2.27          | 0.44          | 1.39          | 1.67          | 0.95          | 2.22          | 1.7           | 1.17          | 3.64          | 6.07          | 6.28          | 6.37          | 6.47          | 6.56          | 6.86          | 7.17          | 7.47          | 8.82          | 4.16          | 2.51          | 4.48          | 6.45          | 8.41          | 6.54          | 4.66          | 2.78          | 3.74          | 4.71          | 5.67          | 4.71          | 5.67          |      |     |
| 15.154          | 3.67          | 3.79          | 3.92          | 3.99          | 4.07          | 4.14          | 3.23          | 0.32          | 1.59          | 1.54          | 1.49          | 1.45          | 1.18          | 1.02          | 3.66          | 1.42          | 3.5           | 5.58          | 5.9           | 6.21          | 6.53          | 7.7           | 8.57          | 10.04         | 7.48          | 4.92          | 2.36          | 4.55          | 6.74          | 8.92          | 6.89          | 4.86          | 3.83          | 3.78          | 4.72          | 5.67          | 4.72          | 5.67 |     |
| 20.154          | 3.6           | 3.66          | 3.72          | 3.88          | 4.03          | 4.18          | 2.19          | 0.21          | 1.78          | 1.49          | 1.19          | 1.89          | 1.82          | 1.75          | 3.68          | 1.18          | 3.03          | 4.89          | 5.42          | 5.96          | 6.5           | 8.54          | 10.57         | 12.61         | 9.15          | 5.68          | 2.22          | 4.62          | 7.03          | 9.43          | 7.25          | 5.07          | 2.89          | 3.82          | 4.74          | 5.67          | 4.74          | 5.67 |     |
| 25.154          | 3.54          | 3.54          | 3.53          | 3.66          | 3.8           | 3.93          | 1.96          | 0.21          | 1.98          | 1.66          | 1.34          | 1.02          | 1.91          | 2.8           | 3.7           | 2.03          | 2.56          | 4.19          | 4.95          | 5.71          | 6.47          | 8.25          | 10.04         | 11.82         | 8.57          | 5.32          | 2.07          | 4.69          | 7.32          | 9.94          | 7.61          | 5.28          | 2.95          | 3.85          | 4.76          | 5.67          | 4.76          | 5.67 |     |
| 30.154          | 3.47          | 3.41          | 3.34          | 3.4           | 3.46          | 3.53          | 1.68          | 0.16          | 2.01          | 1.72          | 1.43          | 1.14          | 1.05          | 1.96          | 2.86          | 0.63          | 2.12          | 3.62          | 4.56          | 5.5           | 6.44          | 7.92          | 9.41          | 10.89         | 8.21          | 5.53          | 2.85          | 5.24          | 7.63          | 10.02         | 7.68          | 5.34          | 3             | 3.89          | 4.78          | 5.67          | 4.78          | 5.67 |     |
| 35.154          | 3.47          | 3.4           | 3.33          | 3.26          | 3.19          | 3.12          | 1.41          | 0.29          | 2             | 1.76          | 1.51          | 1.26          | 1.19          | 1.11          | 1.04          | 0.39          | 1.82          | 3.25          | 4.22          | 5.19          | 6.16          | 7.43          | 8.69          | 9.96          | 8.27          | 5.79          | 3.7           | 5.57          | 7.43          | 9.3           | 7.24          | 5.17          | 3.11          | 3.96          | 4.82          | 5.67          | 4.82          | 5.67 |     |
| 40.154          | 3.49          | 3.44          | 3.39          | 3.17          | 2.94          | 2.72          | 1.15          | 0.42          | 1.99          | 1.79          | 1.59          | 1.39          | 1.33          | 1.27          | 1.21          | 0.15          | 1.52          | 2.89          | 3.85          | 4.82          | 5.79          | 6.87          | 7.95          | 9.03          | 7.54          | 6.04          | 4.55          | 5.89          | 7.23          | 8.58          | 6.8           | 5.02          | 3.24          | 4.05          | 4.86          | 5.67          | 4.86          | 5.67 |     |
| 45.154          | 3.51          | 3.49          | 3.46          | 3.08          | 2.7           | 2.32          | 0.88          | 0.55          | 1.89          | 1.83          | 1.67          | 1.51          | 1.47          | 1.43          | 1.39          | 0.08          | 1.22          | 2.52          | 3.49          | 4.45          | 5.42          | 6.42          | 7.42          | 8.41          | 7.2           | 6.3           | 5.4           | 6.22          | 7.04          | 7.86          | 6.36          | 4.87          | 3.7           | 4.14          | 4.97          | 5.67          | 4.97          | 5.67 |     |
| 50.154          | 3.54          | 3.53          | 3.52          | 2.99          | 2.45          | 1.91          | 0.62          | 0.68          | 1.98          | 1.86          | 1.73          | 1.63          | 1.61          | 1.59          | 1.56          | 0.12          | 0.92          | 2.16          | 3.12          | 4.08          | 5.04          | 6.05          | 6.46          | 7.17          | 8.06          | 6.56          | 6.25          | 6.55          | 6.84          | 7.14          | 7.93          | 7.71          | 6.5           | 5.43          | 6.23          | 6.95          | 5.67          | 6.23 |     |
| 55.154          | 3.56          | 3.57          | 3.59          | 2.9           | 2.2           | 1.51          | 0.35          | 0.81          | 1.97          | 1.9           | 1.83          | 1.76          | 1.75          | 1.74          | 1.74          | 0.26          | 0.62          | 1.79          | 2.75          | 3.71          | 4.67          | 5.19          | 5.71          | 6.24          | 6.52          | 6.81          | 7.1           | 6.87          | 6.64          | 6.42          | 5.49          | 4.56          | 3.63          | 4.31          | 4.99          | 5.67          | 5.02          |      |     |
| 60.154          | 3.58          | 3.62          | 3.66          | 2.81          | 1.96          | 1.11          | 0.08          | 0.94          | 1.96          | 1.94          | 1.91          | 1.88          | 1.89          | 1.9           | 1.91          | 0.38          | 0.32          | 1.43          | 2.38          | 3.34          | 4.3           | 4.63          | 4.97          | 5.31          | 5.61          | 7.07          | 7.95          | 7.2           | 6.45          | 5.7           | 5.05          | 4.41          | 3.76          | 4.4           | 5.03          | 5.67          | 4.53          |      |     |
| 65.154          | 3.6           | 3.66          | 3.72          | 2.72          | 1.71          | 0.7           | 0.18          | 1.07          | 1.96          | 1.97          | 1.99          | 2             | 2.03          | 2.06          | 2.09          | 0.04          | 0.01          | 1.06          | 2.02          | 2.97          | 3.92          | 4.07          | 4.22          | 4.38          | 5.85          | 7.33          | 8.8           | 7.53          | 6.25          | 4.98          | 4.62          | 4.25          | 3.89          | 4.49          | 5.08          | 5.67          | 4.58          |      |     |
| 70.154          | 3.62          | 3.71          | 3.79          | 2.62          | 1.46          | 0.3           | 0.45          | 1.2           | 1.95          | 2.01          | 2.07          | 2.13          | 2.17          | 2.22          | 2.26          | 0.27          | 0.29          | 0.7           | 1.65          | 2.6           | 3.55          | 3.52          | 3.48          | 3.45          | 5.51          | 7.58          | 9.65          | 7.85          | 6.05          | 4.26          | 4.18          | 4.1           | 4.02          | 4.57          | 5.12          | 5.67          | 4.62          |      |     |
| 75.154          | 3.65          | 3.75          | 3.85          | 2.53          | 1.21          | 0.11          | 0.11          | 1.22          | 1.33          | 1.34          | 1.34          | 1.35          | 1.37          | 1.44          | 1.51          | 0.39          | 0.34          | 1.28          | 2.23          | 3.18          | 3.06          | 2.74          | 2.51          | 3.18          | 3.84          | 10.5          | 8.18          | 5.86          | 3.54          | 3.74          | 3.95          | 4.15          | 4.66          | 5.16          | 5.67          | 4.66          | 5.67          |      |     |
| 80.154          | 3.67          | 3.79          | 3.92          | 2.44          | 0.97          | 0.51          | 0.98          | 1.46          | 1.93          | 2.05          | 2.12          | 2.16          | 2.24          | 2.31          | 2.37          | 0.61          | 0.55          | 1.89          | 3.03          | 3.92          | 3.86          | 2.8           | 2.48          | 2.17          | 1.85          | 5.02          | 8.18          | 11.35         | 8.51          | 5.66          | 2.82          | 3.31          | 3.8           | 4.29          | 4.75          | 5.21          | 5.67          | 4.75 |     |
| 85.154          | 3.69          | 3.84          | 3.98          | 2.42          | 0.85          | 0.71          | 1.11          | 1.52          | 1.92          | 2.03          | 2.13          | 2.23          | 2.32          | 2.4           | 2.46          | 0.79          | 0.99          | 1.19          | 3.39          | 4.55          | 4.49          | 2.43          | 2.31          | 2.19          | 2.07          | 5.45          | 8.82          | 12.2          | 8.83          | 5.46          | 2.1           | 2.87          | 3.64          | 4.42          | 4.83          | 5.25          | 5.67          | 4.83 |     |
| 90.154          | 3.71          | 3.88          | 4.05          | 2.5           | 0.95          | 0.59          | 1.04          | 1.48          | 1.92          | 1.98          | 2.04          | 2.1           | 2.19          | 2.27          | 2.34          | 1.1           | 1.39          | 1.67          | 2.96          | 4.23          | 4.49          | 0.76          | 0.18          | 1.12          | 2.06          | 2.31          | 2.21          | 2.28          | 5.85          | 9.41          | 12.97         | 9.11          | 5.24          | 3.18          | 2.43          | 3.49          | 4.55          | 4.92 | 5.3 |
| 95.154          | 3.73          | 3.92          | 4.12          | 2.58          | 1.05          | 0.48          | 0.93          | 1.38          | 1.83          | 1.88          | 1.92          | 1.97          | 2.01          | 2.05          | 2.09          | 0.12          | 0.17          | 1.64          | 3.12          | 4.19          | 0.75          | 1.18          | 1.08          | 1.06          | 2.33          | 2.5           | 5.75          | 8.99          | 12.24         | 8.38          | 4.52          | 3.66          | 2             | 3.34          | 4.68          | 5.01          | 5.4           |      |     |
| 100.154         | 3.76          | 3.97          | 4.18          | 2.67          | 1.19          | 0.36          | 0.82          | 1.27          | 1.72          | 1.76          | 1.8           | 1.84          | 2.01          | 2.19          | 2.37          | 0.33          | 0.49          | 1.08          | 2.6           | 3.52          | 1.31          | 1.08          | 0.85          | 0.82          | 1.65          | 8.57          | 11.4          | 9.99          | 4.49          | 2.98          | 2.36          | 3.53          | 4.81          | 5.09          | 5.38          | 5.67          | 5.09          |      |     |
| 105.154         | 3.73          | 3.92          | 4.1           | 2.65          | 1.2           | 0.5           | 0.7           | 1.16          | 1.62          | 1.65          | 1.68          | 1.7           | 1.82          | 1.94          | 2.05          | 0.45          | 0.7           | 1.27          | 2.15          | 3.47          | 1.1           | 1.71          | 1.32          | 2.94          | 5.55          | 8.15          | 10.76         | 7.64          | 4.51          | 1.39          | 2.55          | 3.72          | 4.89          | 5.15          | 5.41          | 5.67          | 5.41          |      |     |
| 110.154         | 3.68          | 3.82          | 3.95          | 2.59          | 1.23          | 0.13          | 0.59          | 1.05          | 1.51          | 1.53          | 1.55          | 1.57          | 1.63          | 1.68          | 1.74          | 0.32          | 0.9           | 1.49          | 2.05          | 3.58          | 1.11          | 1.79          | 2.48          | 3.16          | 5.45          | 7.73          | 10.02         | 7.28          | 4.53          | 1.79          | 2.82          | 3.85          | 4.87          | 5.14          | 5.4           | 5.67          | 5.14          |      |     |
| 115.154         | 3.63          | 3.72          | 3.8           | 2.53          | 1.26          | 0.02          | 0.48          | 0.94          | 1.4           | 1.41          | 1.43          | 1.44          | 1.43          | 1.43          | 1.42          | 0.02          | 0.61          | 1.21          | 2.24          | 3.68          | 1.13          | 1.88          | 2.63          | 3.38          | 5.34          | 7.31          | 9.28          | 6.92          | 4.56          | 2.19          | 3.08          | 3.97          | 4.86          | 5.13          | 5.4           | 5.67          | 5.13          |      |     |
| 120.154         | 3.58          | 3.62          | 3.66          | 2.47          | 1.28          | 0.1           | 0.37          | 0.83          | 1.29          | 1.3           | 1.31          | 1.31          | 1.24          | 1.17          | 1.1           | 0.71          | 1.32          | 2.07          | 3.43          | 4.79          | 1.14          | 1.96          | 2.78          | 3.59          | 5.24          | 6.9           | 8.55          | 6.56          | 4.58          | 2.6           | 3.35          | 4.41          | 4.84          | 5.12          | 5.39          | 5.67          | 5.12          |      |     |
| 125.154         | 3.53          | 3.52          | 3.51          | 2.41          | 1.31          | 0.21          | 0.25          | 0.72          | 1.09          | 1.18          | 1.18          | 1.18          | 1.05          | 0.92          | 0.78          | 0.41          | 0.83          | 0.35          | 0.62          | 3.89          | 1.16          | 2.04          | 2.98          | 3.81          | 5.14          | 6.48          | 7.81          | 6.21          | 4.6           | 3             | 3.61          | 4.22          | 4.83          | 5.11          | 5.39          | 5.67          | 5.39          |      |     |
| 130.154         | 3.48          | 3.42          | 3.36          | 2.35          | 1.34          | 0.33          | 0.14          | 0.61          | 1.08          | 1.07          | 1.06          | 1.05          | 0.85          | 0.66          | 0.47          | 0.11          | 0.27          | 0.63          | 0.81          | 2.99          | 1.18          | 2.13          | 3.08          | 4.03          | 5.04          | 6.06          | 7.07          | 5.85          | 4.63          | 3.41          | 3.88          | 4.35          | 4.82          | 5.1           | 5.39          | 5.67          | 5.39          |      |     |
| 135.154         | 3.43          | 3.32          | 3.21          | 2.29          | 1.37          | 0.44          | 0.03          | 0.35          | 0.97          | 0.95          | 0.94          | 0.92          | 0.66          | 0.41          | 0.35          | 0.02          | 0.56          | 0.91          | 1             | 1.1           | 1.19          | 2.21          | 3.23          | 4.25          | 5.44          | 6.64          | 6.33          | 5.49          | 4.65          | 3.81          | 4.14          | 4.47          | 4.8           | 5.09          | 5.38          | 5.67          | 5.09          |      |     |
| 140.154         | 3.38          | 3.22          | 3.06          | 2.23          | 1.39          | 0.56          | 0.08          | 0.39          | 0.86          | 0.84          | 0.81          | 0.79          | 0.47          | 0.15          | 0.17          | 0.51          | 0.85          | 1.19          | 1.2           | 1.2           | 1.21          | 2.29          | 3.38          | 4.47          | 4.84          | 5.22          | 5.6           | 5.14          | 4.67          | 4.21          | 4.4           | 4.6           | 4.79          | 5.08          | 5.38          | 5.67          | 5.08          |      |     |
| 145.154         | 3.33          | 3.12          | 2.91          | 2.17          | 1.42          | 0.67          | 0.2           | 0.28          | 0.76          | 0.72          | 0.69          | 0.65          | 0.37          | 0.11          | 0.49          | 0.81          | 1.14          | 1.47          | 1.39          | 1.31          | 1.22          | 2.38          | 3.53          | 4.68          | 4.74          | 4.8           | 4.86          | 4.78          | 4.7           | 4.62          | 4.67          | 4.72          | 4.77          | 5.07          | 5.37          | 5.67          | 5.07          |      |     |
| 150.154         | 3.28          | 3.02          | 2.76          | 2.11          | 1.45          | 0.79          | 0.31          | 0.17          | 0.65          | 0.61          | 0.57          | 0.52          | 0.28          | 0.36          | 0.38          | 1.12          | 1.43          | 1.75          | 1.58          | 1.41          | 1.24          | 2.46          | 3.68          | 4.9           | 4.64          | 4.38          | 4.12          | 4.42          | 5.02          | 4.93          | 4.85          | 4.76          | 5.06          | 5.37          | 5.67          | 5.06          | 5.67          |      |     |
| 155.154         | 3.23          | 2.92          | 2.62          | 2.05          | 1.47          | 0.9           | 0.42          | 0.26          | 0.54          | 0.49          | 0.44          | 0.39          | 0.21          | 0.62          | 0.72          | 1.23          | 1.53          | 2.03          | 1.77          | 1.51          | 1.26          | 2.54          | 3.83          | 5.12          | 4.54          | 3.96          | 3.38          | 4.06          | 4.75          | 5.43          | 5.2           | 4.97          | 4.74          | 5.05          | 5.36          | 5.67          | 5.36          |      |     |
| 160.154         | 3.18          | 2.83          | 2.47          | 1.98          | 1.5           | 1.02          | 0.53          | 0.05          | 0.44          | 0.38          | 0.32          | 0.26          | 0.31          | 0.87          | 1.44          | 1.73          | 2.02          | 2.31          | 1.96          | 1.62          | 1.27          | 2.57          | 3.86          | 5.15          | 4.32          | 3.48          | 2.65          | 3.71          | 4.77          | 5.83          | 5.46          | 5.1           | 4.73          | 5.04          | 5.36          | 5.67          | 5.36          |      |     |
| 165.154         | 3.13          | 2.73          | 2.32          | 1.88          | 1.44          | 1.01          | 0.56          | 0.12          | 0.33          | 0.33          | 0.33          | 0.33          | 0.37          | 1.06          | 1.75          | 2.03          | 2.31          | 2.59          | 2.16          | 1.7           |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |      |     |

# Raw Data (ANT3@2G 2500MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |       |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |       |
| 0_123           | 0.123         | 1.306         | 4.137         | 13.599        | 14.666        | 13.013        | 11.688        | 10.132        | 8.410         | 6.710         | 5.270         | 4.029         | 3.144         | 2.511         | 2.114         | 1.878         | 1.742         | 1.699         | 1.728         | 1.854         | 1.977         | 2.090         | 2.184         | 2.259         | 2.316         | 2.357         | 2.384         | 2.398         | 2.400         | 2.391         | 2.371         | 2.340         | 2.299         | 2.247         | 2.185         | 2.114         | 2.033         |       |
| 5_123           | 1.353         | 3.383         | 4.133         | 3.738         | 3.433         | 3.088         | 1.688         | 0.288         | 1.111         | 0.711         | 0.311         | 0.291         | 0.4           | 1.899         | 0.399         | 0.888         | 3.155         | 4.541         | 5.988         | 6.555         | 7.133         | 7.711         | 8.311         | 7.209         | 5.884         | 4.522         | 3.223         | 2.476         | 0.299         | 7.811         | 6.079         | 6.572         | 5.322         | 4.077         | 4.744         | 5.541         | 6.608         | 6.608 |
| 10_123          | 3.477         | 3.7           | 3.944         | 3.677         | 3.399         | 3.122         | 1.699         | 0.255         | 1.199         | 0.511         | 0.888         | 0.155         | 0.911         | 1.677         | 1.433         | 0.633         | 2.699         | 4.755         | 5.544         | 6.333         | 7.122         | 8.244         | 9.366         | 10.488        | 8.084         | 5.6           | 3.16          | 4.644         | 6.133         | 7.622         | 6.5           | 5.399         | 4.277         | 4.877         | 5.477         | 6.077         | 6.608         |       |
| 15_123          | 3.411         | 3.588         | 3.755         | 3.555         | 3.366         | 3.177         | 1.699         | 0.222         | 1.266         | 0.3           | 0.355         | 0.399         | 1.422         | 1.455         | 1.488         | 0.388         | 2.244         | 4.411         | 5.1           | 6.111         | 7.111         | 8.166         | 11.866        | 10.277        | 6.677         | 3.088         | 4.533         | 5.988         | 7.433         | 6.444         | 5.466         | 4.477         | 5.011         | 5.544         | 6.077         | 6.608         |               |       |
| 20_123          | 3.344         | 3.566         | 3.444         | 3.333         | 3.211         | 3.177         | 1.711         | 0.188         | 1.333         | 0.177         | 0.011         | 0.855         | 1.077         | 1.133         | 1.822         | 0.318         | 1.799         | 3.444         | 4.666         | 3.888         | 7.1           | 10.499        | 11.877        | 11.255        | 12.5          | 7.255         | 3             | 4.411         | 5.833         | 7.244         | 6.388         | 5.533         | 4.677         | 5.144         | 5.611         | 6.077         | 6.608         |       |
| 25_123          | 3.288         | 3.322         | 3.366         | 3.366         | 3.315         | 3.244         | 1.555         | 0.077         | 1.411         | 0.255         | 0.099         | 0.933         | 1.144         | 1.366         | 0.577         | 0.122         | 1.333         | 2.788         | 4.222         | 5.666         | 7.299         | 10.177        | 13.255        | 16.322        | 11.866        | 7.999         | 2.922         | 4.3           | 5.677         | 7.055         | 6.322         | 5.6           | 4.877         | 5.277         | 5.677         | 6.077         | 6.608         |       |
| 30_123          | 3.221         | 3.199         | 3.177         | 3.033         | 2.899         | 2.724         | 1.355         | 0.055         | 1.444         | 0.3           | 0.166         | 1.011         | 1.2           | 1.388         | 0.566         | 0.288         | 1.101         | 2.299         | 3.899         | 5.499         | 7.099         | 9.799         | 12.5          | 15.211        | 11.266        | 7.311         | 3.355         | 4.5           | 5.644         | 6.788         | 6.211         | 5.644         | 5.077         | 5.411         | 5.744         | 6.077         | 6.608         |       |
| 35_123          | 3.2           | 3.16          | 3.122         | 2.9           | 2.677         | 2.455         | 1.155         | 0.16          | 1.466         | 0.344         | 0.222         | 1.1           | 1.255         | 1.4           | 1.566         | 0.344         | 0.888         | 2.1           | 3.666         | 5.222         | 6.788         | 9.222         | 11.655        | 14.1          | 10.677        | 7.255         | 3.822         | 4.677         | 5.511         | 6.366         | 5.977         | 5.577         | 5.188         | 4.548         | 3.788         | 4.608         | 5.378         | 6.077 |
| 40_123          | 3.2           | 3.16          | 3.122         | 2.8           | 2.488         | 2.166         | 0.944         | 0.277         | 1.488         | 0.388         | 0.288         | 1.188         | 1.3           | 1.422         | 1.555         | 0.4           | 0.766         | 1.911         | 3.399         | 4.877         | 6.355         | 8.866         | 10.788        | 12.999        | 10.099        | 7.199         | 4.299         | 4.844         | 5.399         | 5.933         | 5.711         | 5.488         | 5.266         | 5.533         | 5.8           | 5.8           | 6.077         | 6.608 |
| 45_123          | 3.2           | 3.16          | 3.133         | 2.711         | 2.299         | 1.877         | 0.744         | 0.388         | 1.5           | 0.422         | 0.344         | 1.266         | 1.366         | 1.455         | 1.544         | 0.455         | 0.633         | 1.722         | 3.122         | 4.522         | 5.911         | 7.911         | 9.899         | 11.888        | 9.511         | 7.133         | 4.766         | 5.011         | 5.266         | 5.511         | 5.455         | 5.4           | 5.344         | 5.388         | 5.833         | 6.077         | 6.608         |       |
| 50_123          | 3.2           | 3.17          | 3.133         | 2.611         | 2.209         | 1.599         | 0.544         | 0.449         | 1.533         | 0.477         | 0.411         | 1.35          | 1.411         | 1.477         | 1.533         | 0.511         | 0.533         | 2.85          | 4.188         | 5.5           | 7.266         | 9.011         | 10.777        | 8.922         | 6.088         | 5.233         | 5.18          | 5.144         | 5.299         | 5.2           | 5.311         | 5.411         | 5.633         | 5.855         | 6.077         | 6.608         |               |       |
| 55_123          | 3.2           | 3.17          | 3.144         | 2.522         | 1.99          | 1.255         | 0.344         | 0.66          | 1.555         | 0.511         | 0.477         | 1.433         | 1.466         | 1.499         | 1.522         | 0.577         | 0.388         | 1.333         | 2.588         | 3.833         | 5.088         | 6.66          | 8.133         | 9.666         | 8.344         | 7.022         | 5.7           | 5.366         | 5.501         | 4.627         | 4.944         | 5.222         | 5.499         | 5.688         | 5.888         | 6.077         | 6.608         |       |
| 60_123          | 3.2           | 3.17          | 3.144         | 2.422         | 1.711         | 0.999         | 0.144         | 0.722         | 1.577         | 0.555         | 0.555         | 1.511         | 1.511         | 1.511         | 1.511         | 0.511         | 0.366         | 1.133         | 2.311         | 3.488         | 4.655         | 5.955         | 7.255         | 8.555         | 7.755         | 6.966         | 6.177         | 5.533         | 4.899         | 4.425         | 4.699         | 5.133         | 5.366         | 5.733         | 5.9           | 6.077         | 6.608         |       |
| 65_123          | 3.2           | 3.17          | 3.144         | 2.333         | 1.511         | 0.7           | 0.277         | 0.833         | 1.599         | 0.599         | 0.599         | 1.6           | 1.566         | 1.533         | 1.5           | 0.699         | 0.133         | 0.999         | 2.044         | 3.133         | 4.222         | 5.299         | 6.366         | 7.433         | 7.177         | 6.9           | 6.644         | 5.7           | 4.766         | 3.833         | 4.443         | 5.044         | 5.644         | 5.788         | 5.933         | 6.077         | 6.608         |       |
| 70_123          | 3.211         | 3.18          | 3.155         | 2.233         | 1.322         | 0.4           | 0.207         | 0.944         | 1.691         | 0.633         | 0.666         | 1.688         | 1.622         | 1.566         | 1.499         | 0.744         | 0.011         | 0.766         | 1.777         | 2.799         | 3.888         | 4.644         | 5.388         | 6.844         | 7.1           | 5.877         | 4.644         | 3.411         | 4.188         | 4.599         | 5.722         | 5.944         | 5.966         | 6.077         | 6.608         |               |               |       |
| 75_123          | 3.211         | 3.18          | 3.155         | 2.144         | 1.122         | 0.111         | 0.247         | 1.055         | 1.633         | 0.688         | 0.722         | 1.766         | 1.677         | 1.588         | 1.499         | 0.8           | 0.122         | 0.577         | 1.5           | 2.444         | 3.377         | 3.999         | 4.6           | 5.211         | 6             | 6.799         | 7.577         | 6.044         | 4.522         | 2.999         | 3.922         | 4.866         | 5.799         | 5.899         | 6.077         | 6.608         |               |       |
| 80_123          | 3.211         | 3.18          | 3.155         | 2.044         | 0.933         | 0.188         | 0.677         | 1.166         | 1.655         | 0.711         | 0.788         | 1.844         | 1.722         | 1.6           | 1.488         | 0.866         | 0.244         | 0.377         | 1.233         | 2.099         | 2.955         | 3.411         | 3.877         | 4.333         | 5.577         | 6.811         | 8.044         | 6.222         | 4.399         | 2.577         | 3.627         | 4.777         | 5.877         | 5.944         | 6.077         | 6.608         |               |       |
| 85_123          | 3.211         | 3.18          | 3.16          | 1.999         | 0.822         | 0.355         | 0.799         | 1.233         | 1.688         | 0.699         | 0.711         | 1.733         | 1.655         | 1.566         | 1.477         | 0.922         | 0.377         | 0.188         | 0.966         | 1.744         | 2.595         | 3.299         | 3.666         | 4.233         | 5.666         | 7.088         | 8.511         | 6.999         | 4.277         | 2.144         | 3.411         | 4.688         | 5.944         | 5.999         | 6.077         | 6.608         |               |       |
| 90_123          | 3.211         | 3.19          | 3.17          | 1.911         | 0.888         | 0.255         | 0.688         | 1.122         | 1.655         | 0.711         | 0.677         | 1.633         | 1.577         | 1.522         | 1.466         | 0.988         | 0.499         | 0.011         | 0.699         | 1.4           | 2.1           | 2.777         | 3.455         | 4.133         | 5.733         | 7.333         | 8.944         | 6.533         | 4.133         | 1.722         | 3.166         | 4.599         | 6.022         | 6.044         | 6.066         | 6.077         |               |       |
| 95_123          | 3.211         | 3.19          | 3.17          | 1.822         | 0.877         | 0.288         | 0.733         | 1.188         | 1.644         | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.244         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 100_123         | 3.211         | 3.19          | 3.17          | 1.733         | 0.899         | 0.255         | 0.688         | 1.122         | 1.655         | 0.711         | 0.677         | 1.633         | 1.577         | 1.522         | 1.466         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 105_123         | 3.211         | 3.19          | 3.17          | 1.644         | 0.911         | 0.244         | 0.677         | 1.111         | 1.644         | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.244         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 110_123         | 3.211         | 3.19          | 3.17          | 1.555         | 0.922         | 0.233         | 0.666         | 1.1           | 1.644         | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.244         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 115_123         | 3.211         | 3.19          | 3.17          | 1.466         | 0.933         | 0.222         | 0.655         | 1.088         | 1.633         | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.244         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 120_123         | 3.211         | 3.19          | 3.17          | 1.377         | 0.944         | 0.211         | 0.644         | 1.077         | 1.622         | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.244         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 125_123         | 3.211         | 3.19          | 3.17          | 1.288         | 0.955         | 0.2           | 0.633         | 1.066         | 1.611         | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.244         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 130_123         | 3.211         | 3.19          | 3.17          | 1.199         | 0.966         | 0.188         | 0.622         | 1.055         | 1.6           | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.244         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 135_123         | 3.211         | 3.19          | 3.17          | 1.111         | 0.977         | 0.177         | 0.611         | 1.044         | 1.588         | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.244         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 140_123         | 3.211         | 3.19          | 3.17          | 1.022         | 0.988         | 0.166         | 0.6           | 1.033         | 1.577         | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.244         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 145_123         | 3.211         | 3.19          | 3.17          | 0.933         | 0.999         | 0.155         | 0.588         | 1.022         | 1.566         | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.244         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 150_123         | 3.211         | 3.19          | 3.17          | 0.844         | 1.011         | 0.144         | 0.577         | 1.011         | 1.555         | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.244         | 0.988         | 0.555         | 0.22          | 0.342         | 1.055         | 1.677         | 2.466         | 3.244         | 4.022         | 5.544         | 7.055         | 8.577         | 6.155         | 3.722         | 1.3           | 2.9           | 4.599         | 6.099         | 6.099         | 6.077         | 6.608         |               |       |
| 155_123         | 3.211         | 3.19          | 3.17          | 0.755         | 1.022         | 0.133         | 0.566         | 1.0           | 1.544         | 0.6           | 0.566         | 1.533         | 1.433         | 1.344         | 1.2           |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |       |

# Raw Data (ANT0@5G 4900MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0.751           | 4.70          | 4.07          | 12.15         | 0.55          | 0.68          | 0.19          | 0.13          | 0.46          | 0.59          | 0.72          | 0.84          | 0.63          | 0.33          | 0.07          | 0.13          | 0.43          | 0.63          | 0.33          | 0.07          | 0.13          | 0.43          | 0.63          | 0.33          | 0.07          | 0.13          | 0.43          | 0.63          | 0.33          | 0.07          | 0.13          | 0.43          | 0.63          | 0.33          | 0.07          | 0.13          | 0.43          | 0.63          |
| 0.751           | 3.74          | 3.97          | 2.2           | 0.74          | 0.72          | 0.18          | 0.42          | 0.66          | 0.9           | 0.92          | 0.95          | 0.02          | 0.36          | 0.71          | 4.05          | 0.78          | 7.32          | 9.25          | 10.11         | 10.97         | 11.83         | 14.37         | 16.91         | 19.44         | 19.75         | 20.06         | 20.37         | 22.38         | 24.38         | 26.39         | 23.01         | 19.64         | 16.26         | 12.71         | 18.15         | 19.09         |               |
| 10.751          | 3.68          | 3.86          | 2.04          | 0.64          | 0.77          | 0.17          | 0.52          | 0.86          | 0.3           | 0.13          | 0.06          | 0.01          | 1.09          | 1.28          | 3.24          | 7.21          | 9.18          | 9.5           | 9.82          | 10.14         | 13.24         | 16.33         | 19.43         | 19.51         | 19.59         | 19.68         | 21.55         | 23.45         | 25.35         | 22.3          | 19.29         | 16.28         | 12.72         | 18.16         | 19.09         |               |               |
| 10.751          | 3.63          | 3.76          | 1.88          | 0.54          | 0.81          | 0.16          | 0.61          | 1.06          | 0.51          | 0.34          | 0.17          | 0.01          | 0.82          | 1.65          | 2.48          | 4.69          | 6.9           | 9.1           | 8.89          | 8.67          | 8.45          | 12.1          | 15.76         | 19.41         | 19.27         | 19.13         | 18.99         | 20.73         | 22.48         | 24.23         | 21.59         | 18.95         | 16.31         | 12.74         | 18.16         | 19.09         |               |
| 20.751          | 3.58          | 3.65          | 1.73          | 0.44          | 0.86          | 0.15          | 0.7           | 1.26          | 0.82          | 0.55          | 0.29          | 0.02          | 0.55          | 1.17          | 1.7           | 4.14          | 6.59          | 9.03          | 9.27          | 7.52          | 6.76          | 10.96         | 15.35         | 19.35         | 19            | 18.65         | 18.3          | 19.91         | 21.51         | 23.07         | 18.6          | 16.33         | 12.75         | 18.17         | 19.09         |               |               |
| 20.751          | 3.53          | 3.55          | 1.57          | 0.34          | 0.9           | 0.13          | 0.8           | 1.46          | 0.5           | 0.8           | 0.46          | 0.11          | 0.22          | 0.57          | 0.92          | 3.36          | 6.21          | 8.85          | 9.59          | 6.33          | 5.07          | 9.63          | 14.18         | 18.74         | 18.36         | 17.98         | 17.6          | 19.22         | 20.83         | 22.44         | 20.41         | 18.38         | 16.35         | 12.71         | 18.18         | 19.09         |               |
| 30.751          | 3.56          | 3.62          | 1.67          | 0.41          | 0.85          | 0.11          | 0.76          | 1.4           | 0.45          | 0.78          | 0.51          | 0.25          | 0.12          | 0.01          | 0.13          | 2.97          | 5.8           | 8.64          | 7.6           | 6.56          | 5.51          | 9.72          | 13.93         | 18.13         | 17.73         | 17.32         | 16.91         | 18.56         | 20.21         | 21.85         | 20.07         | 18.28         | 16.5          | 17.36         | 18.23         | 19.09         |               |
| 30.751          | 3.62          | 3.73          | 1.85          | 0.53          | 0.78          | 0.09          | 0.7           | 1.32          | 0.93          | 0.74          | 0.55          | 0.36          | 0.3           | 0.25          | 0.19          | 2.68          | 5.55          | 8.42          | 7.65          | 6.87          | 6.1           | 9.9           | 13.71         | 17.52         | 17.17         | 16.82         | 16.46         | 18.06         | 19.67         | 21.27         | 19.73         | 18.19         | 16.65         | 17.46         | 18.28         | 19.09         |               |
| 40.751          | 3.68          | 3.85          | 2.02          | 0.65          | 0.71          | 0.07          | 0.65          | 1.23          | 0.81          | 0.7           | 0.59          | 0.48          | 0.35          | 0.22          | 0.09          | 2.68          | 5.44          | 8.2           | 7.7           | 7.19          | 6.68          | 10.09         | 13.5          | 16.92         | 16.72         | 16.52         | 16.32         | 17.77         | 19.23         | 20.69         | 19.39         | 18.09         | 16.8          | 17.56         | 18.33         | 19.09         |               |
| 40.751          | 3.73          | 3.96          | 2.19          | 0.78          | 0.64          | 0.06          | 0.6           | 1.15          | 0.69          | 0.66          | 0.53          | 0.39          | 0.39          | 0.29          | 0.01          | 2.67          | 5.33          | 7.99          | 7.74          | 7.5           | 7.26          | 10.27         | 13.29         | 16.31         | 16.26         | 16.22         | 16.17         | 17.48         | 18.79         | 20.09         | 19.04         | 18            | 16.95         | 17.66         | 18.38         | 19.09         |               |
| 50.751          | 3.79          | 4.08          | 2.36          | 0.9           | 0.57          | 0.04          | 0.55          | 1.06          | 0.58          | 0.62          | 0.66          | 0.7           | 0.43          | 0.16          | 0.11          | 2.67          | 5.22          | 7.77          | 7.79          | 7.82          | 7.84          | 10.46         | 13.08         | 15.7          | 15.81         | 15.92         | 16.03         | 17.19         | 18.35         | 19.51         | 18.7          | 17.9          | 17.4          | 17.76         | 18.43         | 19.09         |               |
| 60.751          | 3.85          | 4.19          | 2.53          | 1.02          | 0.5           | 0.02          | 0.5           | 0.98          | 0.46          | 0.58          | 0.7           | 0.82          | 0.47          | 0.13          | 0.22          | 2.66          | 5.11          | 7.55          | 7.84          | 8.13          | 8.42          | 10.64         | 12.87         | 15.09         | 15.35         | 15.62         | 15.89         | 16.9          | 17.91         | 18.92         | 18.36         | 17.81         | 17.25         | 17.87         | 18.48         | 19.09         |               |
| 60.751          | 3.91          | 4.31          | 2.71          | 1.14          | 0.43          | 0             | 0.45          | 0.9           | 0.35          | 0.54          | 0.74          | 0.93          | 0.52          | 0.1           | 0.32          | 2.66          | 5             | 7.34          | 7.89          | 8.45          | 9             | 10.83         | 12.65         | 14.68         | 14.9          | 15.32         | 15.74         | 16.6          | 17.47         | 18.33         | 18.02         | 17.71         | 17.4          | 17.97         | 18.53         | 19.09         |               |
| 60.751          | 3.96          | 4.42          | 2.88          | 1.26          | 0.36          | 0.98          | 0.4           | 0.81          | 0.23          | 0.51          | 0.78          | 1.05          | 0.56          | 0.07          | 0.42          | 2.65          | 4.89          | 7.12          | 7.94          | 8.76          | 9.58          | 11.01         | 12.44         | 13.87         | 14.45         | 15.02         | 15.6          | 16.31         | 17.03         | 17.74         | 17.68         | 17.62         | 17.55         | 18.07         | 18.58         | 19.09         |               |
| 70.751          | 4.02          | 4.54          | 3.05          | 1.38          | 0.29          | 0.96          | 0.34          | 0.73          | 0.12          | 0.47          | 0.82          | 1.16          | 0.6           | 0.04          | 0.52          | 2.65          | 4.78          | 6.9           | 7.99          | 9.08          | 10.17         | 11.2          | 12.23         | 13.26         | 13.99         | 14.72         | 15.45         | 16.02         | 16.59         | 17.16         | 17.34         | 17.52         | 17.7          | 18.17         | 18.63         | 19.09         |               |
| 70.751          | 4.08          | 4.65          | 3.22          | 1.5           | 0.22          | 0.94          | 0.29          | 0.65          | 0             | 0.43          | 0.85          | 1.28          | 0.64          | 0.01          | 0.62          | 2.64          | 4.66          | 6.69          | 8.04          | 9.39          | 10.75         | 11.38         | 12.02         | 12.65         | 13.54         | 14.42         | 15.31         | 15.73         | 16.15         | 16.57         | 17            | 17.43         | 17.85         | 18.27         | 18.68         | 19.09         |               |
| 80.751          | 4.14          | 4.77          | 3.39          | 1.62          | 0.15          | 0.92          | 0.24          | 0.56          | 0.89          | 0.39          | 0.89          | 1.39          | 0.69          | 0.02          | 0.72          | 2.64          | 4.55          | 6.47          | 8.09          | 9.71          | 11.33         | 11.66         | 11.98         | 12.31         | 13.26         | 14.21         | 15.16         | 15.44         | 15.71         | 15.98         | 16.66         | 17.33         | 18            | 18.37         | 18.73         | 19.09         |               |
| 80.751          | 4.19          | 4.88          | 3.57          | 1.74          | 0.08          | 0.9           | 0.19          | 0.48          | 0.77          | 0.34          | 0.91          | 1.48          | 0.71          | 0.05          | 0.82          | 2.63          | 4.44          | 6.25          | 8.14          | 10.02         | 11.91         | 12.16         | 12.42         | 12.66         | 13.45         | 14.23         | 15.02         | 15.14         | 15.27         | 15.4          | 16.32         | 17.24         | 18.16         | 18.47         | 18.78         | 19.09         |               |
| 90.751          | 4.25          | 4.99          | 3.74          | 1.87          | 0             | 0.87          | 0.13          | 0.39          | 0.66          | 0.3           | 0.94          | 1.58          | 0.74          | 0.09          | 0.93          | 2.63          | 4.33          | 6.03          | 8.18          | 10.34         | 12.49         | 12.66         | 12.84         | 13.01         | 13.63         | 14.25         | 14.87         | 14.92         | 14.96         | 15            | 16.1          | 17.2          | 18.31         | 18.57         | 18.83         | 19.09         |               |
| 90.751          | 4.22          | 4.93          | 3.64          | 1.81          | 0.01          | 0.84          | 0.08          | 0.31          | 0.54          | 0.25          | 0.96          | 1.67          | 0.77          | 0.13          | 1.03          | 2.61          | 4.2           | 5.78          | 8.03          | 10.27         | 12.52         | 12.8          | 13.08         | 13.36         | 13.82         | 14.27         | 14.73         | 14.85         | 14.98         | 15.1          | 16.22         | 17.34         | 18.46         | 18.67         | 18.88         | 19.09         |               |
| 100.751         | 4.14          | 4.77          | 3.41          | 1.67          | 0.07          | 0.81          | 0.02          | 0.22          | 0.43          | 0.11          | 0.99          | 1.76          | 0.8           | 0.16          | 1.08          | 2.58          | 4.06          | 5.53          | 8.6           | 10.18         | 12.51         | 12.91         | 13.1          | 13.71         | 14            | 14.39         | 14.58         | 14.79         | 15            | 15.2          | 16.2          | 17.4          | 18.5          | 18.69         | 18.9          | 19.09         |               |
| 100.751         | 4.06          | 4.62          | 3.18          | 1.52          | 0.13          | 0.78          | 0.96          | 0.14          | 0.32          | 0.16          | 1.01          | 1.86          | 0.83          | 0.19          | 1.21          | 2.57          | 3.93          | 5.28          | 7.69          | 10.09         | 12.49         | 13.01         | 13.54         | 14.06         | 14.19         | 14.31         | 14.44         | 14.73         | 15.02         | 15.31         | 16.33         | 17.36         | 18.39         | 18.62         | 18.86         | 19.09         |               |
| 110.751         | 3.99          | 4.47          | 2.95          | 1.38          | 0.19          | 0.76          | 0.9           | 0.05          | 0.2           | 0.12          | 0.03          | 0.95          | 0.88          | 0.18          | 1.25          | 2.51          | 3.77          | 5.04          | 7.52          | 10            | 12.48         | 13.12         | 13.77         | 14.41         | 14.46         | 14.52         | 14.57         | 14.85         | 15.13         | 15.41         | 16.36         | 17.32         | 18.28         | 18.55         | 18.82         | 19.09         |               |
| 110.751         | 3.91          | 4.31          | 2.71          | 1.23          | 0.25          | 0.73          | 0.85          | 0.07          | 0.09          | 0.07          | 0.06          | 0.04          | 0.93          | 0.17          | 1.28          | 2.45          | 3.62          | 4.79          | 7.35          | 9.9           | 12.46         | 13.23         | 13.99         | 14.76         | 14.76         | 14.75         | 15            | 15.26         | 15.51         | 16.4          | 17.28         | 18.17         | 18.48         | 18.79         | 19.09         |               |               |
| 120.751         | 3.83          | 4.16          | 2.48          | 1.09          | 0.3           | 0.7           | 1.09          | 0.88          | 0.03          | 0.08          | 0.14          | 0.98          | 0.17          | 1.32          | 2.39          | 3.47          | 4.54          | 7.18          | 9.81          | 12.45         | 13.34         | 14.22         | 15.11         | 15.05         | 14.99         | 14.93         | 15.15         | 15.38         | 15.61         | 16.43         | 17.24         | 18.06         | 18.4          | 18.75         | 19.09         |               |               |
| 120.751         | 3.75          | 4.05          | 2.25          | 0.94          | 0.36          | 0.67          | 1.23          | 0.86          | 0.08          | 0.11          | 0.23          | 1.04          | 0.16          | 1.35          | 2.33          | 3.31          | 4.29          | 7.01          | 9.72          | 12.43         | 13.44         | 14.45         | 15.46         | 15.34         | 15.22         | 15.11         | 15.31         | 15.51         | 15.71         | 16.46         | 17.21         | 17.95         | 18.33         | 18.71         | 19.09         |               |               |
| 130.751         | 3.68          | 3.85          | 2.02          | 0.8           | 0.42          | 0.64          | 0.68          | 0.71          | 0.75          | 0.94          | 0.13          | 0.72          | 0.99          | 0.15          | 1.39          | 2.27          | 3.16          | 4.04          | 6.84          | 9.63          | 12.42         | 13.55         | 14.68         | 15.63         | 15.46         | 15.28         | 15.46         | 15.63         | 15.81         | 16.49         | 17.17         | 17.84         | 18.26         | 18.68         | 19.09         |               |               |
| 130.751         | 3.6           | 3.69          | 1.79          | 0.65          | 0.48          | 0.61          | 0.62          | 0.63          | 0.63          | 0.89          | 0.16          | 0.42          | 1.14          | 0.14          | 1.42          | 2.21          | 3.01          | 3.8           | 6.67          | 9.54          | 12.41         | 13.66         | 14.91         | 16.16         | 15.92         | 15.69         | 15.46         | 15.61         | 15.76         | 15.91         | 16.52         | 17.13         | 17.73         | 18.19         | 18.64         | 19.09         |               |
| 140.751         | 3.52          | 3.54          | 1.56          | 0.51          | 0.54          | 0.58          | 0.56          | 0.54          | 0.52          | 0.85          | 0.18          | 0.51          | 1.19          | 0.14          | 1.46          | 2.15          | 2.85          | 3.55          | 6.5           | 9.44          | 12.39         | 13.76         | 15.13         | 16.51         | 16.22         | 15.93         | 15.64         | 15.77         | 15.89         | 16.02         | 16.55         | 17.09         | 17.63         | 18.11         | 18.6          | 19.09         |               |
| 140.751         | 3.45          | 3.48          | 1.32          | 0.36          | 0.59          | 0.55          | 0.5           | 0.46          | 0.41          | 0.81          | 0.2           | 0.6           | 1.24          | 0.13          | 1.49          | 2.09          | 2.7           | 3.3           | 6.33          | 9.35          | 12.38         | 13.87         | 15.36         | 16.85         | 16.51         | 16.16         | 15.82         | 15.92         | 16.02         | 16.12         | 16.58         | 17.05         | 17.52         | 18.04         | 18.57         | 19.09         |               |
| 150.751         | 3.37          | 3.23          | 1.09          | 0.22          | 0.65          | 0.53          | 0.45          | 0.37          | 0.29          | 0.76          | 0.23          | 0.69          | 1.29          | 0.12          | 1.55          | 2.04          | 2.54          | 3.05          | 6.16          | 9.26          | 12.36         | 13.98         | 15.59         | 17            | 16.8          | 16.4          | 16            | 16.07         | 16.14         | 16.22         | 16.62         | 17.01         | 17.41         | 17.97         | 18.53         | 19.09         |               |
| 150.751         | 3.29          | 3.08          | 0.86          | 0.07          | 0.71          | 0.5           | 0.39          | 0.29          | 0.18          | 0.72          | 0.25          | 0.79          | 1.34          | 0.11          | 1.56          | 1.98          | 2.39          | 2.8           | 5.99          | 9.17          | 12.35         | 14.08         | 15.82         | 17.55         | 17.09         | 16.63         | 16.17         | 16.22         | 16.27         | 16.32         | 16.65         | 16.97         | 17.3          | 17.8          | 18.5          | 19.09         |               |
| 160.751         | 3.21          | 2.92          | 0.63          | 0.07          | 0.77          | 0.47          | 0.33          | 0.2           | 0.07          | 0.67          | 0.28          | 0.88          | 1.39          | 0.1           | 1.6           | 1.92          | 2.24          | 2.56          | 5.82          | 9.08          | 12.34         | 14.13         | 15.93         | 17.72         | 17.27         | 16.81         | 16.35         | 16.38         | 16.4          | 16.42         | 16.68         | 16.93         | 17.19         | 17.82         | 18.46         | 19.09         |               |
| 160.751         | 3.14          | 2.77          | 0.4           | 0.21          | 0.82          | 0.43          | 0.27          | 0.11          | 0.95          | 0.56          | 0.18          | 0.79          | 1.32          | 0.16          | 1.63          | 1.86          | 2.08          | 2.31          | 5.65          | 8.98          | 12.3          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |



# Raw Data (ANT0@5G 5900MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |      |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |      |
| 0.4             | 9.2           | 1.3           | 1.4           | 0.7           | 1.5           | 1.1           | 1.1           | 1.6           | 1.3           | 1.9           | 1.3           | 1.9           | 1.6           | 1.9           | 1.3           | 1.9           | 1.3           | 1.7           | 1.4           | 1.9           | 1.7           | 1.9           | 1.5           | 1.9           | 1.5           | 1.9           | 1.5           | 1.9           | 1.5           | 1.9           | 1.5           | 1.9           | 1.5           | 1.9           | 1.5           | 1.9           | 1.5           |      |
| 4.8             | 9.7           | 6.52          | 4.08          | 1.64          | 0.78          | 0.07          | 0.92          | 1.77          | 2.61          | 3.46          | 2.66          | 2.87          | 1.07          | 3.06          | 3.96          | 1.97          | 3.74          | 5.51          | 7.28          | 8.13          | 8.98          | 9.83          | 11.52         | 13.22         | 14.92         | 14.65         | 14.39         | 14.12         | 13.83         | 13.53         | 13.23         | 12.93         | 12.63         | 12.33         | 12.03         | 11.73         | 11.43         |      |
| 10.8            | 9.7           | 6.75          | 4.52          | 2.3           | 1.22          | 0.15          | 0.93          | 1.93          | 2.99          | 3.05          | 1.1           | 3.3           | 0.5           | 1.3           | 3.3           | 5.29          | 7.29          | 7.97          | 8.25          | 8.73          | 10.54         | 12.35         | 14.16         | 14.04         | 13.91         | 13.79         | 13.65         | 13.51         | 13.37         | 13.23         | 13.09         | 12.95         | 12.81         | 12.67         | 12.53         | 12.39         | 12.25         |      |
| 16.8            | 9.7           | 6.97          | 4.96          | 2.96          | 1.66          | 0.37          | 0.93          | 2.09          | 3.25          | 4.4           | 3.32          | 2.23          | 1.14          | 3.55          | 0.04          | 0.63          | 2.85          | 5.08          | 7.31          | 7.41          | 7.53          | 7.64          | 9.36          | 11.48         | 13.4          | 13.42         | 13.44         | 13.46         | 14.92         | 16.38         | 17.84         | 17.58         | 17.31         | 17.05         | 16.08         | 15.12         | 14.15         |      |
| 20.9            | 9.7           | 7.19          | 5.41          | 3.63          | 2.1           | 0.58          | 0.94          | 2.25          | 3.56          | 4.88          | 3.64          | 2.41          | 1.17          | 3.8           | 0.4           | 2.41          | 4.86          | 7.31          | 7.66          | 8.8           | 9.55          | 8.6           | 10.04         | 12.69         | 12.83         | 12.98         | 13.12         | 13.27         | 13.41         | 13.56         | 13.71         | 13.86         | 13.97         | 14.08         | 14.19         | 14.3          | 14.4          | 14.5 |
| 24.9            | 9.7           | 7.41          | 5.85          | 4.29          | 2.54          | 0.8           | 0.95          | 2.41          | 3.88          | 5.14          | 3.86          | 2.57          | 1.19          | 4.03          | 0.87          | 2.71          | 5.03          | 4.58          | 7.23          | 6.64          | 6.05          | 5.46          | 7.8           | 10.14         | 12.48         | 12.58         | 12.69         | 12.79         | 12.89         | 13.0          | 13.1          | 13.2          | 13.3          | 13.4          | 13.5          | 13.6          | 13.7          |      |
| 30.8            | 9.7           | 7.42          | 5.88          | 4.34          | 2.57          | 0.81          | 0.95          | 2.35          | 3.74          | 5.14          | 3.82          | 2.51          | 1.2           | 4.26          | 1.32          | 3.38          | 4.55          | 4.28          | 7.11          | 6.67          | 6.23          | 5.79          | 7.95          | 10.1          | 12.26         | 12.33         | 12.39         | 12.46         | 12.53         | 12.6          | 12.67         | 12.74         | 12.81         | 12.88         | 12.95         | 13.02         | 13.09         |      |
| 36.8            | 9.7           | 7.38          | 5.8           | 4.22          | 2.49          | 0.77          | 0.96          | 2.26          | 3.57          | 4.88          | 3.65          | 2.43          | 1.21          | 3.66          | 1.5           | 3.65          | 4.23          | 4.41          | 6.98          | 6.72          | 6.47          | 6.21          | 8.15          | 10.1          | 12.05         | 12.13         | 12.21         | 12.29         | 12.36         | 12.43         | 12.5          | 12.57         | 12.64         | 12.71         | 12.78         | 12.85         | 12.92         |      |
| 40.8            | 9.7           | 7.34          | 5.72          | 4.1           | 2.41          | 0.73          | 0.96          | 3.18          | 3.4           | 4.61          | 3.48          | 2.35          | 1.22          | 3.33          | 1.43          | 3.54          | 4.26          | 4.06          | 6.86          | 6.78          | 6.7           | 6.63          | 8.36          | 10.1          | 11.84         | 12            | 12.16         | 12.32         | 12.47         | 12.62         | 12.77         | 12.92         | 13.07         | 13.22         | 13.37         | 13.52         | 13.67         |      |
| 45.8            | 9.7           | 7.31          | 5.64          | 3.98          | 2.33          | 0.68          | 0.97          | 2.1           | 3.22          | 4.35          | 3.11          | 2.27          | 1.3           | 3.37          | 1.43          | 3.59          | 4.02          | 6.74          | 6.84          | 6.94          | 7.05          | 8.57          | 10.1          | 11.41         | 11.73         | 12.06         | 12.39         | 12.66         | 12.93         | 13.2          | 13.47         | 13.74         | 14.01         | 14.28         | 14.55         | 14.82         | 15.09         |      |
| 50.8            | 9.7           | 7.27          | 5.56          | 3.86          | 2.25          | 0.64          | 0.97          | 2.01          | 3.05          | 4.09          | 3.14          | 2.19          | 1.24          | 3.27          | 1.3           | 3.32          | 3.33          | 3.97          | 6.62          | 6.9           | 7.18          | 7.46          | 8.78          | 10.09         | 11.41         | 11.73         | 12.06         | 12.39         | 12.66         | 12.93         | 13.2          | 13.47         | 13.74         | 14.01         | 14.28         | 14.55         | 14.82         |      |
| 56.8            | 9.7           | 7.23          | 5.49          | 3.75          | 2.17          | 0.6           | 0.98          | 1.93          | 2.88          | 3.83          | 2.97          | 2.11          | 1.26          | 3.24          | 1.23          | 3.21          | 3.36          | 3.93          | 6.5           | 6.96          | 7.42          | 7.88          | 8.99          | 10.09         | 11.2          | 11.6          | 12.01         | 12.42         | 12.88         | 13.34         | 13.8          | 14.25         | 14.71         | 15.17         | 15.63         | 16.09         |               |      |
| 60.8            | 9.7           | 7.19          | 5.41          | 3.63          | 2.09          | 0.56          | 0.98          | 1.84          | 2.71          | 3.57          | 2.8           | 2.04          | 1.27          | 3.21          | 1.16          | 3.1           | 3.39          | 3.88          | 6.38          | 7.02          | 7.66          | 8.3           | 9.2           | 10.09         | 10.98         | 11.47         | 11.96         | 12.45         | 12.93         | 13.41         | 13.88         | 14.35         | 14.82         | 15.29         | 15.76         | 16.23         |               |      |
| 65.8            | 9.7           | 7.15          | 5.33          | 3.51          | 2.01          | 0.51          | 0.99          | 1.76          | 2.54          | 3.31          | 2.63          | 1.96          | 1.28          | 3.18          | 1.09          | 3.1           | 3.42          | 3.84          | 6.26          | 7.08          | 7.79          | 8.52          | 9.4           | 10.09         | 10.77         | 11.34         | 11.91         | 12.48         | 13.05         | 13.62         | 14.19         | 14.76         | 15.33         | 15.9          | 16.47         | 17.04         |               |      |
| 70.8            | 9.7           | 7.11          | 5.25          | 3.39          | 1.93          | 0.47          | 0.99          | 1.68          | 2.36          | 3.05          | 2.46          | 1.88          | 1.29          | 3.16          | 1.02          | 3.09          | 3.45          | 3.8           | 6.14          | 7.14          | 8.14          | 9.14          | 9.61          | 10.08         | 10.56         | 11.21         | 11.86         | 12.51         | 13.16         | 13.81         | 14.46         | 15.11         | 15.76         | 16.41         | 17.06         | 17.71         |               |      |
| 75.8            | 9.7           | 7.07          | 5.17          | 3.27          | 1.85          | 0.43          | 1.0           | 1.59          | 2.19          | 2.79          | 2.29          | 1.8           | 1.3           | 3.13          | 0.95          | 3.08          | 3.49          | 3.75          | 6.01          | 7.2           | 8.38          | 9.56          | 9.82          | 10.08         | 10.34         | 11.08         | 11.81         | 12.53         | 13.24         | 13.94         | 14.64         | 15.34         | 16.04         | 16.74         | 17.44         | 18.14         |               |      |
| 80.8            | 9.7           | 7.03          | 5.09          | 3.16          | 1.77          | 0.38          | 1.01          | 1.51          | 2.02          | 2.53          | 2.13          | 1.73          | 1.33          | 3.11          | 0.89          | 3.07          | 3.52          | 3.71          | 5.89          | 7.26          | 8.62          | 9.98          | 10.05         | 10.12         | 10.2          | 10.99         | 11.78         | 12.58         | 13.38         | 14.18         | 14.98         | 15.78         | 16.58         | 17.38         | 18.18         | 18.98         |               |      |
| 85.8            | 9.7           | 6.99          | 5.01          | 3.04          | 1.69          | 0.34          | 1.01          | 1.43          | 1.85          | 2.27          | 2.01          | 1.76          | 1.51          | 3.19          | 0.87          | 3.06          | 3.55          | 3.66          | 5.77          | 7.31          | 8.86          | 10.4          | 10.34         | 10.28         | 10.22         | 10.92         | 11.81         | 12.61         | 13.41         | 14.21         | 15.01         | 15.81         | 16.61         | 17.41         | 18.21         | 19.01         |               |      |
| 90.8            | 9.7           | 6.95          | 4.94          | 2.92          | 1.61          | 0.31          | 1.01          | 1.34          | 1.68          | 2.02          | 1.91          | 1.8           | 1.68          | 3.27          | 0.86          | 3.45          | 3.58          | 3.6           | 5.62          | 7.36          | 9.09          | 10.82         | 10.63         | 10.44         | 10.24         | 11.04         | 11.84         | 12.64         | 13.44         | 14.24         | 15.04         | 15.84         | 16.64         | 17.44         | 18.24         | 19.04         |               |      |
| 95.8            | 9.7           | 6.91          | 4.85          | 2.8           | 1.53          | 0.27          | 0.99          | 1.3           | 1.61          | 1.92          | 1.9           | 1.88          | 1.86          | 3.35          | 0.85          | 3.34          | 3.56          | 3.46          | 5.57          | 7.23          | 9.09          | 10.95         | 10.73         | 10.55         | 10.27         | 11.07         | 11.87         | 12.67         | 13.47         | 14.27         | 15.07         | 15.87         | 16.67         | 17.47         | 18.27         | 19.07         |               |      |
| 100.8           | 9.7           | 6.87          | 4.77          | 2.67          | 1.45          | 0.23          | 0.98          | 1.26          | 1.54          | 1.81          | 1.89          | 1.86          | 1.84          | 3.44          | 0.83          | 3.23          | 3.53          | 3.33          | 5.33          | 7.1           | 9.08          | 10.97         | 10.81         | 10.55         | 10.29         | 11.1          | 11.9          | 12.71         | 13.51         | 14.31         | 15.11         | 15.91         | 16.71         | 17.51         | 18.31         | 19.11         |               |      |
| 105.8           | 9.7           | 6.81          | 4.68          | 2.54          | 1.37          | 0.2           | 0.98          | 1.22          | 1.46          | 1.71          | 1.88          | 1.85          | 1.82          | 3.52          | 0.82          | 3.13          | 3.53          | 3.19          | 4.85          | 6.96          | 9.07          | 11.18         | 10.89         | 10.61         | 10.32         | 11.12         | 11.93         | 12.74         | 13.55         | 14.36         | 15.17         | 15.98         | 16.79         | 17.6          | 18.41         | 19.22         |               |      |
| 110.8           | 9.7           | 6.78          | 4.6           | 2.42          | 1.29          | 0.16          | 0.97          | 1.18          | 1.39          | 1.6           | 1.87          | 1.83          | 1.79          | 3.6           | 0.82          | 3.03          | 3.51          | 3.06          | 4.6           | 6.83          | 9.06          | 11.29         | 10.98         | 10.66         | 10.34         | 11.28         | 12.22         | 13.15         | 14.08         | 15.01         | 15.94         | 16.87         | 17.8          | 18.71         | 19.64         | 20.57         |               |      |
| 115.8           | 9.7           | 6.74          | 4.52          | 2.29          | 1.21          | 0.12          | 0.96          | 1.14          | 1.32          | 1.5           | 1.85          | 1.81          | 1.77          | 3.69          | 0.81          | 3.07          | 3.49          | 2.92          | 4.34          | 6.7           | 9.05          | 11.41         | 11.06         | 10.71         | 10.37         | 11.45         | 12.54         | 13.63         | 14.73         | 15.82         | 16.91         | 18.01         | 19.1          | 20.2          | 21.3          |               |               |      |
| 120.8           | 9.7           | 6.7           | 4.43          | 2.16          | 1.13          | 0.09          | 0.95          | 1.1           | 1.24          | 1.39          | 1.84          | 1.79          | 1.75          | 3.78          | 0.81          | 3.16          | 3.47          | 2.78          | 4.09          | 6.56          | 9.04          | 11.52         | 11.14         | 10.77         | 10.39         | 11.63         | 12.87         | 14.11         | 15.35         | 16.59         | 17.83         | 19.07         | 20.31         | 21.55         | 22.79         | 24.03         |               |      |
| 125.8           | 9.7           | 6.66          | 4.35          | 2.04          | 1.04          | 0.05          | 0.95          | 1.06          | 1.17          | 1.28          | 1.83          | 1.78          | 1.74          | 3.86          | 0.8           | 3.26          | 3.45          | 2.64          | 3.83          | 6.43          | 9.03          | 11.63         | 11.23         | 10.82         | 10.42         | 11.81         | 13.05         | 14.29         | 15.53         | 16.77         | 18.01         | 19.25         | 20.49         | 21.73         | 22.97         |               |               |      |
| 130.8           | 9.7           | 6.62          | 4.26          | 1.91          | 0.96          | 0.01          | 0.94          | 1.02          | 1.1           | 1.18          | 1.82          | 1.76          | 1.71          | 3.95          | 0.79          | 3.35          | 3.43          | 2.5           | 3.57          | 6.3           | 9.02          | 11.74         | 11.31         | 10.88         | 10.44         | 11.98         | 13.22         | 14.46         | 15.7          | 16.94         | 18.18         | 19.42         | 20.66         | 21.9          | 23.14         |               |               |      |
| 135.8           | 9.7           | 6.57          | 4.18          | 1.79          | 0.88          | 0.03          | 0.93          | 0.98          | 1.03          | 1.07          | 1.81          | 1.54          | 1.48          | 4.04          | 0.79          | 3.45          | 3.4           | 2.36          | 3.32          | 6.16          | 9.01          | 11.86         | 11.39         | 10.93         | 10.46         | 12.16         | 13.4          | 14.64         | 15.88         | 17.12         | 18.36         | 19.6          | 20.84         | 22.08         | 23.32         |               |               |      |
| 140.8           | 9.7           | 6.53          | 4.1           | 1.66          | 0.8           | 0.06          | 0.92          | 0.94          | 0.95          | 0.97          | 1.8           | 1.63          | 1.45          | 4.12          | 0.79          | 3.54          | 3.38          | 2.22          | 3.06          | 6.03          | 9             | 11.97         | 11.48         | 10.98         | 10.46         | 12.33         | 13.57         | 14.81         | 16.05         | 17.29         | 18.53         | 19.77         | 21.01         | 22.25         | 23.49         |               |               |      |
| 145.8           | 9.7           | 6.49          | 4.01          | 1.53          | 0.72          | 0.1           | 0.92          | 0.9           | 0.88          | 0.86          | 1.79          | 1.71          | 1.63          | 4.21          | 0.78          | 3.64          | 3.36          | 2.08          | 2.8           | 5.9           | 8.99          | 12.08         | 11.56         | 11.04         | 10.51         | 12.51         | 13.75         | 14.99         | 16.23         | 17.47         | 18.71         | 19.95         | 21.19         | 22.43         | 23.67         |               |               |      |
| 150.8           | 9.7           | 6.45          | 3.93          | 1.41          | 0.64          | 0.14          | 0.91          | 0.86          | 0.81          | 0.76          | 1.77          | 1.79          | 1.81          | 4.29          | 0.78          | 3.73          | 3.34          | 1.94          | 2.55          | 5.76          | 8.98          | 12.22         | 11.64         | 11.09         | 10.54         | 12.68         | 13.92         | 15.16         | 16.4          | 17.64         | 18.88         | 20.12         | 21.36         | 22.6          | 23.84         |               |               |      |
| 155.8           | 9.7           | 6.41          | 3.84          | 1.28          | 0.55          | 0.17          | 0.9           | 0.82          | 0.73          | 0.65          | 1.76          | 1.87          | 1.99          | 4.38          | 0.78          | 3.83          | 3.28          | 1.82          | 2.29          | 5.63          | 8.97          | 12.31         | 11.73         | 11.14         | 10.56         | 12.86         | 14.1          | 15.34         | 16.58         | 17.82         | 19.06         | 20.3          | 21.54         | 22.78         | 24.02         |               |               |      |
| 160.8           | 9.7           | 6.36          | 3.76          | 1.16          | 0.47          | 0.21          | 0.89          | 0.78          | 0.66          | 0.55          | 1.75          | 1.96          | 2.16          | 4.47          | 0.77          | 3.93          | 3.3           | 1.66          | 2.03          | 5.5           | 8.96          | 12.42         | 11.84         | 11.24         | 10.65         | 13.03         | 14.27         | 15.51         | 16.75         | 17.99         | 19.23         | 20.47         | 21.71         | 22.95         | 24.19         |               |               |      |
| 165.8           | 9.7           | 6.32          | 3.68          | 1.03          | 0.39          | 0.26          | 0.9           | 0.75          | 0.59          | 0.44          | 1.64          | 1.84          | 2.04          | 4.56          | 0.77          | 4.02          | 3.25          | 1.67          | 1.92          | 5.37          | 8.95          | 12.54         | 11.96         | 11.35         | 10.81         | 13.34         | 14.58         | 15.82         | 17.06</       |               |               |               |               |               |               |               |               |      |

# Raw Data (ANT1@5G 4900MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0_0.5           | 1.62          | 1.1           | 0.7           | 0.3           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           |               |
| 5_0.5           | 1.58          | 1.1           | 0.7           | 0.3           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           | 0.1           |               |
| 10_0.5          | 1.53          | 1.01          | 0.51          | 0.09          | 0.47          | 0.05          | 0.28          | 0.61          | 0.9           | 0.84          | 0.74          | 0.65          | 0.2           | 0.25          | 0.69          | 2.1           | 3.51          | 4.91          | 6.58          | 8.24          | 9.9           | 11.24         | 12.59         | 13.93         | 14.68         | 15.43         | 16.18         | 15.98         | 15.78         | 15.58         | 17.81         | 20.03         | 22.26         | 21.96         | 21.35         |               |               |
| 15_0.5          | 1.48          | 0.91          | 0.65          | 0.01          | 0.17          | 0.27          | 0.14          | 0.55          | 0.9           | 0.86          | 0.77          | 0.68          | 0.19          | 0.3           | 0.79          | 2.17          | 3.54          | 4.92          | 6.46          | 8             | 9.54          | 10.88         | 12.22         | 13.56         | 14.57         | 15.58         | 16.58         | 16.35         | 16.11         | 15.88         | 17.87         | 19.87         | 21.87         | 21.7          | 21.52         |               |               |
| 20_0.5          | 1.43          | 0.82          | 0.8           | 0.04          | 0.27          | 0.49          | 0.1           | 0.49          | 0.9           | 0.89          | 0.8           | 0.71          | 0.18          | 0.35          | 0.88          | 2.22          | 3.55          | 4.88          | 6.31          | 7.75          | 9.18          | 10.53         | 11.88         | 13.23         | 14.48         | 15.74         | 16.99         | 16.72         | 16.45         | 16.17         | 17.94         | 19.71         | 21.47         | 21.43         | 21.35         |               |               |
| 25_0.5          | 1.38          | 0.72          | 0.94          | 0.06          | 0.17          | 0.71          | 0.14          | 0.43          | 0.9           | 0.89          | 0.79          | 0.69          | 0.13          | 0.42          | 0.98          | 2.25          | 3.53          | 4.8           | 6.16          | 7.52          | 8.88          | 10.29         | 11.7          | 13.11         | 14.54         | 15.97         | 17.39         | 17.09         | 16.78         | 16.47         | 18.01         | 19.54         | 21.08         | 21.17         | 21.26         |               |               |
| 30_0.5          | 1.39          | 0.72          | 0.94          | 0.11          | 0.28          | 0.56          | 0.03          | 0.49          | 0.02          | 0.9           | 0.78          | 0.66          | 0.06          | 0.94          | 1.14          | 2.34          | 3.53          | 4.72          | 6.26          | 7.8           | 9.34          | 10.56         | 11.77         | 12.99         | 14.59         | 16.19         | 17.8          | 17.43         | 17.06         | 16.69         | 18.02         | 19.35         | 20.69         | 20.91         | 21.13         |               |               |
| 35_0.5          | 1.4           | 0.74          | 0.91          | 0.21          | 0.5           | 0.2           | 0.21          | 0.62          | 0.04          | 0.91          | 0.77          | 0.64          | 0.01          | 0.66          | 1.31          | 2.42          | 3.53          | 4.64          | 6.36          | 8.08          | 9.79          | 10.82         | 11.84         | 12.87         | 14.61         | 16.34         | 18.08         | 17.67         | 17.26         | 16.84         | 17.99         | 19.14         | 20.29         | 20.64         | 21.1          |               |               |
| 40_0.5          | 1.41          | 0.76          | 0.88          | 0.31          | 0.73          | 0.15          | 0.47          | 0.79          | 1.11          | 0.95          | 0.78          | 0.62          | 0.08          | 0.78          | 1.48          | 2.51          | 3.54          | 4.56          | 6.46          | 8.35          | 10.25         | 11.08         | 11.92         | 12.75         | 14.59         | 16.43         | 18.27         | 17.85         | 17.42         | 17            | 17.96         | 18.92         | 19.88         | 20.72         |               |               |               |
| 45_0.5          | 1.42          | 0.78          | 0.85          | 0.4           | 0.96          | 0.51          | 0.74          | 0.97          | 1.2           | 1             | 0.79          | 0.59          | 0.16          | 0.91          | 1.65          | 2.6           | 3.54          | 4.48          | 6.36          | 8.63          | 10.7          | 11.34         | 11.99         | 12.63         | 14.57         | 16.52         | 18.46         | 18.03         | 17.59         | 17.16         | 17.93         | 18.7          | 19.47         | 20.1          |               |               |               |
| 50_0.5          | 1.43          | 0.78          | 0.82          | 0.5           | 1.18          | 0.86          | 1             | 1.14          | 1.28          | 1.34          | 0.81          | 0.57          | 0.23          | 1.03          | 1.83          | 2.68          | 3.54          | 4.4           | 6.65          | 8.91          | 11.16         | 11.61         | 12.06         | 12.51         | 14.56         | 16.6          | 18.65         | 18.21         | 17.76         | 17.31         | 17.89         | 18.47         | 19.05         | 19.82         |               |               |               |
| 55_0.5          | 1.44          | 0.82          | 0.79          | 0.6           | 1.41          | 1.22          | 1.27          | 1.32          | 1.37          | 1.09          | 0.82          | 0.55          | 0.3           | 1.15          | 2             | 2.77          | 3.55          | 4.32          | 6.25          | 9.18          | 11.61         | 11.87         | 13.13         | 12.39         | 14.54         | 16.69         | 18.84         | 18.38         | 17.93         | 17.47         | 17.86         | 18.25         | 18.64         | 19.54         |               |               |               |
| 60_0.5          | 1.45          | 0.84          | 0.76          | 0.7           | 1.63          | 1.57          | 1.53          | 1.49          | 1.45          | 1.14          | 0.83          | 0.52          | 0.37          | 1.27          | 2.17          | 2.68          | 3.55          | 4.24          | 6.85          | 9.46          | 12.07         | 12.13         | 12.2          | 12.27         | 14.52         | 16.78         | 19.03         | 18.56         | 18.1          | 17.63         | 17.83         | 18.03         | 18.23         | 19.27         |               |               |               |
| 65_0.5          | 1.46          | 0.86          | 0.73          | 0.8           | 1.86          | 1.93          | 1.8           | 1.67          | 1.54          | 1.19          | 0.84          | 0.5           | 0.45          | 1.39          | 2.34          | 2.95          | 3.55          | 4.16          | 6.95          | 9.73          | 12.52         | 12.4          | 12.27         | 12.15         | 14.51         | 16.86         | 19.22         | 18.74         | 18.26         | 17.79         | 17.8          | 17.82         | 18.99         | 20.17         |               |               |               |
| 70_0.5          | 1.47          | 0.88          | 0.7           | 0.89          | 2.09          | 2.28          | 2.06          | 1.84          | 1.62          | 1.24          | 0.86          | 0.47          | 0.52          | 1.51          | 2.51          | 3.03          | 3.56          | 4.08          | 7.05          | 10.01         | 12.98         | 12.66         | 12.35         | 12.03         | 14.49         | 16.95         | 19.41         | 18.92         | 18.43         | 17.94         | 17.76         | 17.58         | 17.4          | 18.72         |               |               |               |
| 75_0.5          | 1.48          | 0.89          | 0.67          | 0.99          | 2.31          | 2.64          | 2.33          | 2.02          | 1.71          | 1.29          | 0.87          | 0.45          | 0.59          | 1.64          | 2.68          | 3.12          | 3.56          | 4             | 7.14          | 10.29         | 13.43         | 12.92         | 12.42         | 11.91         | 14.47         | 17.04         | 19.6          | 19.1          | 18.6          | 18.1          | 17.73         | 17.36         | 16.99         |               |               |               |               |
| 80_0.5          | 1.49          | 0.92          | 0.64          | 0.99          | 2.54          | 2.99          | 2.59          | 2.19          | 1.8           | 1.36          | 0.92          | 0.49          | 0.63          | 1.74          | 2.85          | 3.31          | 3.76          | 4.22          | 7.44          | 10.66         | 13.89         | 13.21         | 12.53         | 11.85         | 14.57         | 17.14         | 19.79         | 19.28         | 18.77         | 18.26         | 17.77         | 17.14         | 16.58         | 18.17         |               |               |               |
| 85_0.5          | 1.5           | 0.94          | 0.61          | 1.09          | 2.77          | 3.35          | 2.89          | 2.37          | 1.88          | 1.45          | 1.02          | 0.59          | 0.62          | 1.82          | 3.02          | 3.49          | 3.96          | 4.43          | 7.74          | 11.04         | 14.34         | 13.54         | 12.75         | 11.95         | 14.63         | 17.3          | 19.98         | 19.46         | 18.94         | 18.41         | 17.66         | 16.91         | 16.16         | 17.89         |               |               |               |
| 90_0.5          | 1.51          | 0.96          | 0.58          | 1.29          | 2.99          | 3.7           | 3.12          | 2.54          | 1.97          | 1.54          | 1.12          | 0.69          | 0.6           | 1.9           | 3.19          | 3.68          | 4.16          | 4.65          | 7.95          | 11.25         | 14.55         | 13.72         | 12.88         | 12.05         | 14.76         | 17.46         | 20.17         | 19.64         | 19.1          | 18.57         | 17.63         | 16.69         | 15.75         | 17.62         |               |               |               |
| 95_0.5          | 1.55          | 1.05          | 0.45          | 0.26          | 0.08          | 0.89          | 0.77          | 2.66          | 2.05          | 1.63          | 1.21          | 0.79          | 0.46          | 1.72          | 2.97          | 3.6           | 4.24          | 4.87          | 7.94          | 11.02         | 14.09         | 13.44         | 12.8          | 12.15         | 14.89         | 17.62         | 20.36         | 19.8          | 19.23         | 18.67         | 17.56         | 16.45         | 15.34         | 17.31         |               |               |               |
| 100_0.5         | 1.6           | 1.15          | 0.29          | 0.87          | 0.66          | 0.15          | 0.65          | 0.14          | 1.22          | 1.31          | 0.89          | 0.32          | 0.54          | 2.75          | 3.53          | 4.31          | 5.09          | 94            | 0.78          | 16.3          | 11.72         | 12.71         | 12.35         | 15.01         | 17.78         | 20.59         | 19.91         | 19.27         | 18.63         | 17.39         | 16.03         | 14.93         | 16.21         |               |               |               |               |
| 105_0.5         | 1.65          | 1.26          | 0.14          | 0.91          | 0.67          | 0.44          | 0.03          | 0.63          | 0.72          | 0.81          | 0.4           | 0.99          | 0.18          | 1.36          | 3.54          | 4.36          | 4.38          | 5.31          | 7.93          | 10.55         | 13.17         | 12.9          | 12.62         | 12.35         | 15.14         | 17.94         | 20.74         | 20.02         | 19.3          | 18.58         | 17.23         | 15.87         | 14.51         | 16.79         |               |               |               |
| 110_0.5         | 1.7           | 1.36          | 0.98          | 0.73          | 2.47          | 0.21          | 0.91          | 0.62          | 0.32          | 0.91          | 0.5           | 0.99          | 0.04          | 1.18          | 3.2           | 3.39          | 4.45          | 5.52          | 7.92          | 10.32         | 12.72         | 12.63         | 12.54         | 12.45         | 15.15         | 17.85         | 20.56         | 19.89         | 19.21         | 18.54         | 17.18         | 15.83         | 14.47         | 16.76         |               |               |               |
| 115_0.5         | 1.76          | 1.46          | 0.83          | 0.55          | 2.27          | 0.98          | 0.81          | 0.64          | 0.46          | 0.04          | 0.62          | 1.2           | 0.1           | 1             | 3.31          | 4.53          | 5.74          | 7.91          | 10.09         | 12.26         | 12.45         | 12.45         | 12.54         | 15.05         | 17.56         | 20.06         | 19.54         | 19.02         | 18.49         | 17.2          | 15.91         | 14.62         | 16.86         |               |               |               |               |
| 120_0.5         | 1.81          | 1.57          | 0.67          | 0.37          | 2.06          | 2.71          | 2.66          | 2.61          | 2.17          | 1.73          | 1.3           | 1.24          | 0.82          | 1.88          | 3.24          | 4.6           | 5.96          | 7.91          | 9.85          | 11.8          | 12.08         | 12.36         | 12.46         | 14.05         | 17.26         | 19.57         | 19.2          | 18.82         | 18.45         | 17.22         | 15.99         | 14.77         | 16.96         |               |               |               |               |
| 125_0.5         | 1.86          | 1.67          | 0.52          | 0.19          | 0.86          | 2.53          | 2.6           | 2.68          | 2.75          | 2.3           | 1.85          | 1.4           | 0.38          | 0.64          | 1.66          | 3.17          | 4.67          | 6.18          | 7.9           | 9.62          | 11.34         | 11.82         | 12.74         | 14.55         | 16.86         | 19.07         | 18.65         | 18.41         | 17.24         | 16.08         | 14.91         | 13.76         | 16.21         |               |               |               |               |
| 130_0.5         | 1.91          | 1.78          | 0.36          | 0.01          | 0.66          | 3.1           | 2.5           | 2.7           | 2.89          | 2.43          | 2.06          | 1.5           | 0.52          | 0.46          | 1.45          | 3.1           | 4.75          | 6.39          | 8.29          | 9.39          | 10.88         | 11.54         | 12.19         | 12.84         | 14.77         | 16.67         | 18.58         | 18.51         | 18.44         | 17.16         | 15.86         | 14.56         | 13.26         |               |               |               |               |
| 135_0.5         | 1.96          | 1.88          | 0.2           | 0.83          | 0.46          | 2.08          | 2.4           | 2.72          | 3.03          | 2.56          | 2.08          | 1.6           | 0.66          | 0.28          | 1.23          | 3.02          | 4.82          | 6.61          | 7.88          | 9.15          | 10.43         | 11.26         | 12.1          | 12.94         | 14.65         | 16.37         | 18.08         | 18.16         | 18.24         | 18.32         | 17.28         | 16.25         | 15.21         | 14.26         |               |               |               |
| 140_0.5         | 2.02          | 1.99          | 0.05          | 0.65          | 1.25          | 0.86          | 0.3           | 2.74          | 3.18          | 2.69          | 1.9           | 1.7           | 0.8           | 0.11          | 1.01          | 2.95          | 4.89          | 6.83          | 7.88          | 8.92          | 9.97          | 10.99         | 12.01         | 13.04         | 14.56         | 16.07         | 17.59         | 17.82         | 18.05         | 18.28         | 17.3          | 16.33         | 15.36         |               |               |               |               |
| 145_0.5         | 2.07          | 2.09          | 0.11          | 0.47          | 0.05          | 1.63          | 2.19          | 2.76          | 3.32          | 2.81          | 2.11          | 1.8           | 0.94          | 0.07          | 0.79          | 2.88          | 4.96          | 7.05          | 7.87          | 8.69          | 9.51          | 10.72         | 11.93         | 13.14         | 14.46         | 15.78         | 17.09         | 17.47         | 17.85         | 18.23         | 17.32         | 16.41         | 15.5          |               |               |               |               |
| 150_0.5         | 2.12          | 2.19          | 0.27          | 0.29          | 0.85          | 1.4           | 2.09          | 2.78          | 3.46          | 2.94          | 2.42          | 1.9           | 1.08          | 0.25          | 0.57          | 2.86          | 5.04          | 7.27          | 7.86          | 8.46          | 9.05          | 10.45         | 11.84         | 13.24         | 14.56         | 15.48         | 16.6          | 17.13         | 17.66         | 18.19         | 17.34         | 16.3          | 15.65         |               |               |               |               |
| 155_0.5         | 2.17          | 2.3           | 0.42          | 0.11          | 0.65          | 1.8           | 2.09          | 2.8           | 3.61          | 3.07          | 2.54          | 2.2           | 1.43          | 0.36          | 0.73          | 5.11          | 7.48          | 8.85          | 8.22          | 8.59          | 10.17         | 11.75         | 13.34         | 14.26         | 15.18         | 16.4          | 16.78         | 17.46         | 18.14         | 17.56         | 16.58         | 15.8          | 15.63         |               |               |               |               |
| 160_0.5         | 2.23          | 2.4           | 0.58          | 0.07          | 0.44          | 0.95          | 1.88          | 2.82          | 3.75          | 3.19          | 2.63          | 2.07          | 1.34          | 0.6           | 0.14          | 2.61          | 5.08          | 7.55          | 7.75          | 7.94          | 8.13          | 9.88          | 11.63         | 13.38         | 14.12         | 14.87         | 15.61         | 16.44         | 17.27         | 18.1          | 17.38         | 16.67         | 15.95         |               |               |               |               |
| 165_0.5         | 2.28          | 2.51          | 0.74          | 0.25          | 0.24          | 0.73          | 2.78          | 3.84          | 3.89          | 3.31          | 2.72          | 2.14          | 1.45          | 0.77          | 0.08          | 2.36          | 4.79          | 7.23          | 7.38          | 7.53          | 7.68          | 9.51          | 11.34         | 13.18         | 13.82         | 14.47         | 15.11         | 16.09         | 17.08         | 18.06         | 17.4          | 16.75         | 16.1          |               |               |               |               |
| 170_0.5         | 2.31          | 2.61          | 0.89          | 0.43          | 0.04          | 0.5           | 1.68          | 3.86          | 4.03          | 3.43          | 2.82          | 2.21          | 1.55          | 0.9           | 0.25          | 2.14          | 4.52          | 6.91          | 7.01          | 7.12          | 7.22          | 9.14          | 11.06         | 12.97         | 13.52         | 14.07         | 14.62         | 15.75         | 16.88         | 18.01         | 17.42         | 16.83         | 16.24         |               |               |               |               |
| 175_0.5         | 2.38          | 2.71          | 1.04          | 0.54          | 0.04          | 0.46          | 1.7           | 3.94          | 4.18          | 3.54          | 2.91          | 2.27          | 1.63          | 0.99          | 0.34          | 1.97          | 4.28          | 6.59          | 6.65          | 6.71          | 6.78          | 8.77          | 10.77         | 12.77         | 13.22         |               |               |               |               |               |               |               |               |               |               |               |               |







# Raw Data (ANT2@5G 5500MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0.0/0.4         | 0.92          | 1.83          | 12.7          | 1.5           | 1.31          | 1.04          | 0.77          | 0.5           | 1.76          | 0.17          | 1.29          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          | 0.17          |               |
| 5.0/0.4         | 0.76          | 1.49          | 2.21          | 2.75          | 3.28          | 3.81          | 2.43          | 1.05          | 0.33          | 0.76          | 1.19          | 1.62          | 1.01          | 0.4           | 0.21          | 0.84          | 1.46          | 2.08          | 3.35          | 4.61          | 5.87          | 7.94          | 10.01         | 12.09         | 11.57         | 11.05         | 10.53         | 10.53         | 10.54         | 10.54         | 11.24         | 11.24         | 11.93         | 12.63         | 13.6          | 14.58         | 15.55         |
| 10.0/0.4        | 0.6           | 1.16          | 1.73          | 2.59          | 3.45          | 4.31          | 2.82          | 1.33          | 0.36          | 0.76          | 1.36          | 1.95          | 1.19          | 0.42          | 0.34          | 0.85          | 1.35          | 1.85          | 3.16          | 4.47          | 5.78          | 7.39          | 9.41          | 11.22         | 11.22         | 11.21         | 11.21         | 11.05         | 10.88         | 10.74         | 11.24         | 11.76         | 12.29         | 13.38         | 14.47         | 15.55         |               |
| 15.0/0.4        | 0.44          | 0.84          | 1.24          | 2.43          | 3.62          | 4.8           | 3.2           | 1.61          | 0.01          | 0.76          | 1.52          | 2.29          | 1.37          | 0.45          | 0.47          | 0.85          | 1.24          | 1.62          | 2.98          | 4.34          | 5.7           | 7.25          | 8.8           | 10.35         | 10.87         | 11.38         | 11.9          | 11.56         | 11.28         | 11.24         | 11.6          | 11.96         | 13.15         | 14.35         | 15.55         |               |               |
| 20.0/0.4        | 0.27          | 0.51          | 0.75          | 2.16          | 3.57          | 4.98          | 3.38          | 1.78          | 0.17          | 0.75          | 1.68          | 2.61          | 1.54          | 0.47          | 0.6           | 0.86          | 1.12          | 1.38          | 2.79          | 4.2           | 5.61          | 6.9           | 8.19          | 9.48          | 10.52         | 11.55         | 12.58         | 12.07         | 11.56         | 11.08         | 11.24         | 11.43         | 11.62         | 12.93         | 14.24         | 15.55         |               |
| 25.0/0.4        | 0.12          | 0.2           | 0.29          | 1.65          | 3.02          | 4.39          | 3.04          | 1.69          | 0.14          | 0.67          | 1.68          | 2.69          | 1.55          | 0.41          | 0.73          | 0.87          | 1.01          | 1.15          | 2.61          | 4.07          | 5.53          | 6.96          | 8.39          | 9.62          | 10.17         | 11.72         | 11.27         | 10.51         | 11.75         | 10.9          | 11.19         | 11.29         | 12.71         | 14.13         | 15.55         |               |               |
| 30.0/0.4        | 0.17          | 0.3           | 0.43          | 1.55          | 2.67          | 3.79          | 2.66          | 1.54          | 0.41          | 0.65          | 1.71          | 2.77          | 1.56          | 0.35          | 0.86          | 0.94          | 1.01          | 1.09          | 2.54          | 3.99          | 5.44          | 6.37          | 7.29          | 8.22          | 9.86          | 11.5          | 13.14         | 12.37         | 11.6          | 10.84         | 11.1          | 11.37         | 11.64         | 12.94         | 14.25         | 15.55         |               |
| 35.0/0.4        | 0.21          | 0.39          | 0.57          | 1.44          | 2.31          | 3.19          | 2.28          | 1.38          | 0.47          | 0.63          | 1.74          | 2.85          | 1.62          | 0.4           | 0.83          | 1.04          | 1.25          | 1.47          | 2.78          | 4.09          | 5.41          | 6.38          | 7.36          | 8.34          | 9.87          | 11.41         | 12.94         | 12.19         | 11.43         | 10.67         | 11.12         | 11.57         | 12.02         | 13.2          | 14.38         | 15.55         |               |
| 40.0/0.4        | 0.26          | 0.48          | 0.71          | 1.33          | 1.96          | 2.59          | 1.9           | 1.22          | 0.53          | 0.62          | 1.77          | 2.93          | 1.72          | 0.51          | 0.7           | 1.08          | 1.46          | 1.85          | 3.04          | 4.24          | 5.43          | 6.44          | 7.44          | 8.45          | 9.89          | 11.32         | 12.75         | 13            | 11.26         | 10.51         | 11.14         | 11.77         | 12.4          | 13.45         | 14.5          | 15.55         |               |
| 45.0/0.4        | 0.31          | 0.58          | 0.85          | 1.23          | 1.61          | 1.99          | 1.52          | 1.06          | 0.6           | 0.61          | 1.81          | 3.01          | 1.82          | 0.63          | 0.56          | 1.12          | 1.67          | 2.23          | 3.3           | 4.38          | 5.45          | 6.49          | 7.53          | 8.57          | 9.9           | 11.23         | 12.55         | 11.82         | 11.08         | 10.14         | 11.16         | 11.97         | 12.78         | 13.71         | 14.63         | 15.55         |               |
| 50.0/0.4        | 0.35          | 0.67          | 0.99          | 1.12          | 1.26          | 1.39          | 1.15          | 0.9           | 0.66          | 0.59          | 1.84          | 3.09          | 1.92          | 0.74          | 0.43          | 1.16          | 1.88          | 2.61          | 3.56          | 4.52          | 5.47          | 6.54          | 7.61          | 8.68          | 9.91          | 11.13         | 12.36         | 11.63         | 10.91         | 10.18         | 11.17         | 12.17         | 13.16         | 13.96         | 14.76         | 15.55         |               |
| 55.0/0.4        | 0.4           | 0.76          | 1.13          | 1.01          | 0.9           | 0.79          | 0.77          | 0.74          | 0.72          | 0.58          | 1.87          | 3.17          | 2.02          | 0.86          | 0.3           | 1.2           | 2.09          | 2.99          | 3.83          | 4.66          | 5.49          | 6.39          | 7.27          | 8.8           | 9.92          | 11.04         | 12.16         | 11.45         | 10.73         | 10.02         | 11.19         | 12.37         | 13.54         | 14.21         | 14.88         | 15.55         |               |
| 60.0/0.4        | 0.45          | 0.86          | 1.27          | 0.91          | 0.55          | 0.19          | 0.39          | 0.58          | 0.78          | 0.56          | 1.91          | 3.25          | 2.11          | 1.39          | 0.16          | 1.23          | 2.3           | 3.38          | 4.09          | 4.8           | 5.51          | 6.65          | 7.78          | 8.92          | 9.95          | 10.95         | 11.97         | 11.26         | 10.56         | 9.85          | 11.21         | 12.57         | 13.92         | 14.47         | 15.01         | 15.55         |               |
| 65.0/0.4        | 0.49          | 0.95          | 1.4           | 0.8           | 0.2           | 0.41          | 0.01          | 0.43          | 0.84          | 0.55          | 1.94          | 3.33          | 2.21          | 1.09          | 0.03          | 1.27          | 2.51          | 3.76          | 4.35          | 4.94          | 5.53          | 6.7           | 7.87          | 9.03          | 9.95          | 10.86         | 11.77         | 11.08         | 10.38         | 9.69          | 11.23         | 12.77         | 14.31         | 14.72         | 15.14         | 15.55         |               |
| 70.0/0.4        | 0.54          | 1.04          | 1.54          | 0.69          | 0.16          | 0.1           | 0.37          | 0.27          | 0.9           | 0.54          | 1.97          | 3.41          | 2.31          | 1.21          | 0.1           | 1.31          | 2.72          | 4.14          | 4.63          | 5.08          | 5.55          | 6.75          | 7.95          | 9.15          | 9.96          | 10.77         | 11.58         | 10.89         | 10.21         | 9.53          | 11.25         | 12.97         | 14.69         | 14.98         | 15.26         | 15.55         |               |
| 75.0/0.4        | 0.59          | 1.13          | 1.68          | 0.59          | 0.31          | 0.1           | 0.75          | 0.11          | 0.96          | 0.52          | 2.01          | 3.49          | 2.41          | 1.32          | 0.24          | 1.35          | 2.93          | 4.32          | 4.87          | 5.22          | 5.58          | 6.81          | 8.03          | 9.26          | 9.97          | 10.67         | 11.38         | 10.71         | 10.03         | 9.36          | 11.26         | 13.17         | 15.07         | 15.23         | 15.59         | 15.55         |               |
| 80.0/0.4        | 0.63          | 1.23          | 1.82          | 0.77          | 0.29          | 0.35          | 0.56          | 0.23          | 1.03          | 0.48          | 1.98          | 3.48          | 2.44          | 1.41          | 0.37          | 1.39          | 3.14          | 4.49          | 5.13          | 5.37          | 5.6           | 6.86          | 8.12          | 9.38          | 9.98          | 10.58         | 11.18         | 10.52         | 9.86          | 9.2           | 11.28         | 13.37         | 15.45         | 15.48         | 15.52         | 15.55         |               |
| 85.0/0.4        | 0.68          | 1.32          | 1.96          | 1.04          | 0.13          | 0.79          | 0.17          | 0.46          | 1.09          | 0.33          | 1.7           | 3.69          | 2.23          | 1.37          | 0.51          | 1.42          | 3.35          | 5.28          | 5.4           | 5.51          | 5.69          | 6.91          | 8.2           | 9.5           | 9.99          | 10.49         | 10.99         | 10.34         | 9.69          | 9.03          | 11.3          | 13.56         | 15.83         | 15.74         | 16.05         | 15.55         |               |
| 90.0/0.4        | 0.73          | 1.42          | 2.11          | 1.33          | 0.55          | 0.24          | 0.22          | 0.68          | 1.14          | 0.34          | 1.41          | 3.69          | 2.01          | 1.32          | 0.64          | 1.46          | 3.56          | 5.67          | 5.66          | 5.65          | 5.64          | 6.96          | 8.29          | 9.61          | 10.01         | 10.4          | 10.79         | 10.16         | 9.53          | 8.9           | 11.34         | 13.78         | 16.21         | 15.99         | 15.77         | 15.55         |               |
| 95.0/0.4        | 0.8           | 1.57          | 2.34          | 1.67          | 0.99          | 0.32          | 0.6           | 0.88          | 1.16          | 0.01          | 1.15          | 3.7           | 1.79          | 1.28          | 0.77          | 1.5           | 3.77          | 6.05          | 5.92          | 5.79          | 5.66          | 7.01          | 8.37          | 9.72          | 10.01         | 10.31         | 10.6          | 9.51          | 8.97          | 11.25         | 13.53         | 15.8          | 15.72         | 15.64         | 15.55         |               |               |
| 100.0/0.4       | 0.88          | 1.72          | 2.57          | 2             | 1.44          | 0.88          | 0.98          | 0.88          | 1.17          | 0.15          | 1.88          | 3.91          | 1.57          | 1.24          | 0.91          | 1.42          | 3.75          | 6.08          | 5.95          | 5.81          | 6.08          | 7.03          | 8.39          | 9.74          | 9.96          | 10.18         | 9.4           | 9.05          | 8.4           | 11.44         | 13.2          | 15.31         | 15.4          | 15.48         | 15.55         |               |               |
| 105.0/0.4       | 0.96          | 1.88          | 2.8           | 2.34          | 1.89          | 1.43          | 1.35          | 1.27          | 1.19          | 0.29          | 1.61          | 3.51          | 1.37          | 1.13          | 0.93          | 1.35          | 3.64          | 5.92          | 5.85          | 5.78          | 5.71          | 7.06          | 8.41          | 9.76          | 9.91          | 10.06         | 10.21         | 9.84          | 9.48          | 9.11          | 11.02         | 12.93         | 14.84         | 15.08         | 15.32         | 15.55         |               |
| 110.0/0.4       | 1.03          | 2.03          | 3.02          | 2.68          | 2.33          | 1.99          | 1.73          | 1.47          | 1.21          | 0.43          | 1.33          | 1.12          | 1.03          | 0.94          | 0.85          | 1.35          | 3.56          | 5.76          | 5.78          | 5.79          | 5.8           | 7.13          | 8.45          | 9.78          | 9.93          | 10.08         | 10.23         | 9.88          | 9.53          | 9.19          | 10.91         | 12.64         | 14.36         | 14.76         | 15.16         | 15.55         |               |
| 115.0/0.4       | 1.11          | 2.18          | 3.25          | 3.02          | 2.78          | 2.55          | 2.1           | 1.66          | 1.22          | 0.57          | 1.08          | 0.73          | 0.74          | 0.75          | 0.76          | 1.36          | 3.48          | 5.61          | 5.57          | 5.79          | 5.89          | 7.19          | 8.49          | 9.8           | 9.96          | 10.11         | 10.27         | 9.93          | 9.6           | 9.26          | 10.68         | 12.34         | 13.89         | 14.44         | 15            | 15.55         |               |
| 120.0/0.4       | 1.18          | 2.33          | 3.48          | 3.33          | 3.23          | 3.1           | 2.48          | 1.86          | 1.24          | 0.71          | 0.19          | 0.33          | 0.45          | 0.57          | 0.68          | 1.36          | 3.41          | 5.45          | 5.62          | 5.8           | 5.97          | 7.25          | 8.53          | 9.81          | 9.98          | 10.15         | 10.32         | 9.99          | 9.66          | 9.3           | 10.69         | 12.05         | 13.41         | 14.12         | 14.84         | 15.55         |               |
| 125.0/0.4       | 1.26          | 2.48          | 3.73          | 3.69          | 3.67          | 3.66          | 2.86          | 2.36          | 1.35          | 0.86          | 0.46          | 0.06          | 0.16          | 0.38          | 0.46          | 1.37          | 3.33          | 5.29          | 5.55          | 5.8           | 6.06          | 7.32          | 8.57          | 9.83          | 10.09         | 10.26         | 10.44         | 9.72          | 9.4           | 10.57         | 11.75         | 12.93         | 13.8          | 14.68         | 15.55         |               |               |
| 130.0/0.4       | 1.34          | 2.64          | 3.93          | 4.03          | 4.12          | 4.21          | 3.23          | 2.25          | 1.27          | 0.9           | 0.72          | 0.45          | 0.13          | 0.19          | 0.31          | 1.37          | 3.25          | 5.13          | 5.47          | 5.81          | 6.14          | 7.38          | 8.62          | 9.85          | 10.04         | 10.27         | 10.41         | 10.1          | 9.78          | 10.47         | 11.45         | 12.45         | 13.48         | 14.52         | 15.55         |               |               |
| 135.0/0.4       | 1.41          | 2.79          | 4.16          | 4.37          | 4.57          | 4.77          | 3.61          | 2.45          | 1.29          | 1.14          | 0.99          | 0.84          | 0.42          | 0.4           | 0.43          | 1.37          | 3.18          | 4.98          | 5.39          | 5.81          | 6.23          | 7.44          | 8.66          | 9.87          | 10.06         | 10.26         | 10.46         | 10.15         | 9.84          | 9.54          | 10.35         | 11.16         | 11.97         | 13.16         | 14.36         | 15.55         |               |
| 140.0/0.4       | 1.49          | 2.94          | 4.39          | 4.7           | 5.02          | 5.33          | 3.99          | 2.64          | 1.33          | 1.28          | 1.26          | 1.24          | 0.71          | 0.18          | 0.34          | 1.38          | 3.1           | 4.82          | 5.32          | 5.82          | 6.32          | 7.51          | 8.7           | 9.89          | 10.09         | 10.3          | 10.5          | 10.2          | 9.91          | 9.61          | 10.24         | 10.86         | 11.49         | 12.84         | 14.2          | 15.55         |               |
| 145.0/0.4       | 1.56          | 3.09          | 4.62          | 5.04          | 5.46          | 5.88          | 4.36          | 2.84          | 1.32          | 1.42          | 1.53          | 1.63          | 1.1           | 0.37          | 0.26          | 1.38          | 3.02          | 4.66          | 5.24          | 5.82          | 6.4           | 7.57          | 8.74          | 9.91          | 10.12         | 10.33         | 10.55         | 10.26         | 9.97          | 9.68          | 10.12         | 10.57         | 11.01         | 12.53         | 14.04         | 15.55         |               |
| 150.0/0.4       | 1.64          | 3.24          | 4.84          | 5.38          | 5.91          | 6.44          | 4.74          | 3.04          | 1.33          | 1.56          | 1.79          | 2.02          | 1.29          | 0.56          | 0.47          | 1.39          | 2.95          | 4.5           | 5.17          | 5.83          | 6.49          | 7.63          | 8.78          | 9.93          | 10.15         | 10.37         | 10.59         | 10.31         | 10.03         | 9.75          | 10.01         | 10.27         | 10.53         | 12.21         | 13.88         | 15.55         |               |
| 155.0/0.4       | 1.71          | 3.39          | 5.07          | 5.71          | 6.36          | 6.97          | 5.11          | 3.23          | 1.35          | 1.71          | 2.06          | 2.42          | 1.58          | 0.75          | 0.69          | 1.37          | 2.87          | 4.33          | 5.09          | 5.83          | 6.58          | 7.7           | 8.82          | 9.94          | 10.17         | 10.41         | 10.64         | 10.37         | 10.09         | 9.82          | 9.98          | 10.05         | 11.89         | 13.72         | 15.55         |               |               |
| 160.0/0.4       | 1.79          | 3.55          | 5.3           | 5.81          | 6.32          | 6.83          | 5.01          | 3.19          | 1.36          | 1.85          | 2.33          | 2.81          | 1.87          | 0.93          | 0.7           | 1.39          | 2.79          | 4.19          | 5.01          | 5.84          | 6.66          | 7.76          | 8.88          | 9.96          | 10.2          | 10.44         | 10.68         | 10.42         | 10.16         | 9.89          | 9.79          | 9.68          | 9.57          | 11.57         | 13.56         | 15.55         |               |
| 165.0/0.4       | 1.87          | 3.7           | 5.53          | 5.88          | 6.22          | 6.57          | 4.84          | 3.11          | 1.38          | 1.72          | 2.06          | 2.41          | 1.63          | 0.86          | 0.08          | 1.4           | 2.72          | 4.03          | 4.94          | 5.84          | 6.75          | 7.82          | 8.9           | 9.98          | 10.23         | 10.48         | 10.73         | 10.47         | 10.22         |               |               |               |               |               |               |               |               |

# Raw Data (ANT2@5G 5900MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |               |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0.14            | 1.29          | 1.18          | 1.07          | 1.00          | 0.90          | 0.80          | 0.72          | 0.65          | 0.58          | 0.52          | 0.45          | 0.39          | 0.33          | 0.27          | 0.21          | 0.15          | 0.10          | 0.05          | 0.00          | -0.05         | -0.10         | -0.15         | -0.20         | -0.25         | -0.30         | -0.35         | -0.40         | -0.45         | -0.50         | -0.55         | -0.60         | -0.65         | -0.70         | -0.75         | -0.80         | -0.85         | -0.90         |               |
| 5.14            | 1.34          | 1.28          | 1.23          | 1.15          | 1.07          | 0.99          | 0.92          | 0.85          | 0.78          | 0.72          | 0.65          | 0.59          | 0.53          | 0.47          | 0.41          | 0.35          | 0.29          | 0.23          | 0.17          | 0.11          | 0.05          | -0.01         | -0.07         | -0.13         | -0.19         | -0.25         | -0.31         | -0.37         | -0.43         | -0.49         | -0.55         | -0.61         | -0.67         | -0.73         | -0.79         | -0.85         | -0.91         | -0.97         |
| 10.14           | 1.39          | 1.39          | 1.38          | 1.32          | 1.26          | 1.20          | 1.14          | 1.08          | 1.02          | 0.96          | 0.90          | 0.84          | 0.78          | 0.72          | 0.66          | 0.60          | 0.54          | 0.48          | 0.42          | 0.36          | 0.30          | 0.24          | 0.18          | 0.12          | 0.06          | 0.00          | -0.06         | -0.12         | -0.18         | -0.24         | -0.30         | -0.36         | -0.42         | -0.48         | -0.54         | -0.60         | -0.66         | -0.72         |
| 15.14           | 1.45          | 1.49          | 1.54          | 1.53          | 1.50          | 1.46          | 1.42          | 1.38          | 1.34          | 1.30          | 1.26          | 1.22          | 1.18          | 1.14          | 1.10          | 1.06          | 1.02          | 0.98          | 0.94          | 0.90          | 0.86          | 0.82          | 0.78          | 0.74          | 0.70          | 0.66          | 0.62          | 0.58          | 0.54          | 0.50          | 0.46          | 0.42          | 0.38          | 0.34          | 0.30          | 0.26          | 0.22          |               |
| 20.14           | 1.5           | 1.6           | 1.69          | 1.73          | 1.76          | 1.79          | 1.82          | 1.85          | 1.88          | 1.91          | 1.94          | 1.97          | 2.00          | 2.03          | 2.06          | 2.09          | 2.12          | 2.15          | 2.18          | 2.21          | 2.24          | 2.27          | 2.30          | 2.33          | 2.36          | 2.39          | 2.42          | 2.45          | 2.48          | 2.51          | 2.54          | 2.57          | 2.60          | 2.63          | 2.66          | 2.69          | 2.72          | 2.75          |
| 25.14           | 1.55          | 1.7           | 1.85          | 1.96          | 2.07          | 2.16          | 2.25          | 2.33          | 2.41          | 2.49          | 2.57          | 2.65          | 2.73          | 2.81          | 2.89          | 2.97          | 3.05          | 3.13          | 3.21          | 3.29          | 3.37          | 3.45          | 3.53          | 3.61          | 3.69          | 3.77          | 3.85          | 3.93          | 4.01          | 4.09          | 4.17          | 4.25          | 4.33          | 4.41          | 4.49          | 4.57          | 4.65          |               |
| 30.14           | 1.61          | 1.81          | 2.02          | 2.21          | 2.39          | 2.57          | 2.75          | 2.93          | 3.11          | 3.29          | 3.47          | 3.65          | 3.83          | 4.01          | 4.19          | 4.37          | 4.55          | 4.73          | 4.91          | 5.09          | 5.27          | 5.45          | 5.63          | 5.81          | 5.99          | 6.17          | 6.35          | 6.53          | 6.71          | 6.89          | 7.07          | 7.25          | 7.43          | 7.61          | 7.79          | 7.97          |               |               |
| 35.14           | 1.66          | 1.93          | 2.19          | 2.45          | 2.71          | 2.97          | 3.23          | 3.49          | 3.75          | 4.01          | 4.27          | 4.53          | 4.79          | 5.05          | 5.31          | 5.57          | 5.83          | 6.09          | 6.35          | 6.61          | 6.87          | 7.13          | 7.39          | 7.65          | 7.91          | 8.17          | 8.43          | 8.69          | 8.95          | 9.21          | 9.47          | 9.73          | 9.99          | 10.25         | 10.51         | 10.77         |               |               |
| 40.14           | 1.72          | 2.04          | 2.36          | 2.69          | 3.02          | 3.35          | 3.68          | 4.01          | 4.34          | 4.67          | 5.00          | 5.33          | 5.66          | 5.99          | 6.32          | 6.65          | 6.98          | 7.31          | 7.64          | 7.97          | 8.30          | 8.63          | 8.96          | 9.29          | 9.62          | 9.95          | 10.28         | 10.61         | 10.94         | 11.27         | 11.60         | 11.93         | 12.26         | 12.59         | 12.92         | 13.25         |               |               |
| 45.14           | 1.78          | 2.15          | 2.53          | 3.03          | 3.53          | 4.03          | 4.53          | 5.03          | 5.53          | 6.03          | 6.53          | 7.03          | 7.53          | 8.03          | 8.53          | 9.03          | 9.53          | 10.03         | 10.53         | 11.03         | 11.53         | 12.03         | 12.53         | 13.03         | 13.53         | 14.03         | 14.53         | 15.03         | 15.53         | 16.03         | 16.53         | 17.03         | 17.53         | 18.03         | 18.53         | 19.03         |               |               |
| 50.14           | 1.83          | 2.27          | 2.7           | 3.28          | 3.75          | 4.25          | 4.73          | 5.23          | 5.73          | 6.23          | 6.73          | 7.23          | 7.73          | 8.23          | 8.73          | 9.23          | 9.73          | 10.23         | 10.73         | 11.23         | 11.73         | 12.23         | 12.73         | 13.23         | 13.73         | 14.23         | 14.73         | 15.23         | 15.73         | 16.23         | 16.73         | 17.23         | 17.73         | 18.23         | 18.73         | 19.23         |               |               |
| 55.14           | 1.89          | 2.38          | 2.87          | 3.39          | 3.91          | 4.41          | 4.91          | 5.41          | 5.91          | 6.41          | 6.91          | 7.41          | 7.91          | 8.41          | 8.91          | 9.41          | 9.91          | 10.41         | 10.91         | 11.41         | 11.91         | 12.41         | 12.91         | 13.41         | 13.91         | 14.41         | 14.91         | 15.41         | 15.91         | 16.41         | 16.91         | 17.41         | 17.91         | 18.41         | 18.91         | 19.41         |               |               |
| 60.14           | 1.95          | 2.49          | 3.04          | 3.58          | 4.12          | 4.66          | 5.20          | 5.74          | 6.28          | 6.82          | 7.36          | 7.90          | 8.44          | 8.98          | 9.52          | 10.06         | 10.60         | 11.14         | 11.68         | 12.22         | 12.76         | 13.30         | 13.84         | 14.38         | 14.92         | 15.46         | 16.00         | 16.54         | 17.08         | 17.62         | 18.16         | 18.70         | 19.24         | 19.78         | 20.32         | 20.86         |               |               |
| 65.14           | 2             | 2.61          | 3.21          | 3.8           | 4.39          | 4.98          | 5.57          | 6.16          | 6.75          | 7.34          | 7.93          | 8.52          | 9.11          | 9.70          | 10.29         | 10.88         | 11.47         | 12.06         | 12.65         | 13.24         | 13.83         | 14.42         | 15.01         | 15.60         | 16.19         | 16.78         | 17.37         | 17.96         | 18.55         | 19.14         | 19.73         | 20.32         | 20.91         | 21.50         | 22.09         | 22.68         |               |               |
| 70.14           | 2.06          | 2.72          | 3.38          | 4.03          | 4.68          | 5.33          | 5.98          | 6.63          | 7.28          | 7.93          | 8.58          | 9.23          | 9.88          | 10.53         | 11.18         | 11.83         | 12.48         | 13.13         | 13.78         | 14.43         | 15.08         | 15.73         | 16.38         | 17.03         | 17.68         | 18.33         | 18.98         | 19.63         | 20.28         | 20.93         | 21.58         | 22.23         | 22.88         | 23.53         | 24.18         |               |               |               |
| 75.14           | 2.12          | 2.83          | 3.55          | 4.26          | 4.97          | 5.68          | 6.39          | 7.10          | 7.81          | 8.52          | 9.23          | 9.94          | 10.65         | 11.36         | 12.07         | 12.78         | 13.49         | 14.20         | 14.91         | 15.62         | 16.33         | 17.04         | 17.75         | 18.46         | 19.17         | 19.88         | 20.59         | 21.30         | 22.01         | 22.72         | 23.43         | 24.14         | 24.85         | 25.56         | 26.27         |               |               |               |
| 80.14           | 2.17          | 2.95          | 3.72          | 4.52          | 5.32          | 6.12          | 6.92          | 7.72          | 8.52          | 9.32          | 10.12         | 10.92         | 11.72         | 12.52         | 13.32         | 14.12         | 14.92         | 15.72         | 16.52         | 17.32         | 18.12         | 18.92         | 19.72         | 20.52         | 21.32         | 22.12         | 22.92         | 23.72         | 24.52         | 25.32         | 26.12         | 26.92         | 27.72         | 28.52         | 29.32         | 30.12         |               |               |
| 85.14           | 2.23          | 3.06          | 3.89          | 4.72          | 5.55          | 6.38          | 7.21          | 8.04          | 8.87          | 9.70          | 10.53         | 11.36         | 12.19         | 13.02         | 13.85         | 14.68         | 15.51         | 16.34         | 17.17         | 18.00         | 18.83         | 19.66         | 20.49         | 21.32         | 22.15         | 22.98         | 23.81         | 24.64         | 25.47         | 26.30         | 27.13         | 27.96         | 28.79         | 29.62         | 30.45         | 31.28         |               |               |
| 90.14           | 2.27          | 3.15          | 4.03          | 4.92          | 5.81          | 6.70          | 7.59          | 8.48          | 9.37          | 10.26         | 11.15         | 12.04         | 12.93         | 13.82         | 14.71         | 15.60         | 16.49         | 17.38         | 18.27         | 19.16         | 20.05         | 20.94         | 21.83         | 22.72         | 23.61         | 24.50         | 25.39         | 26.28         | 27.17         | 28.06         | 28.95         | 29.84         | 30.73         | 31.62         | 32.51         | 33.40         |               |               |
| 95.14           | 2.3           | 3.23          | 4.21          | 5.20          | 6.19          | 7.18          | 8.17          | 9.16          | 10.15         | 11.14         | 12.13         | 13.12         | 14.11         | 15.10         | 16.09         | 17.08         | 18.07         | 19.06         | 20.05         | 21.04         | 22.03         | 23.02         | 24.01         | 25.00         | 26.00         | 27.00         | 28.00         | 29.00         | 30.00         | 31.00         | 32.00         | 33.00         | 34.00         | 35.00         | 36.00         | 37.00         |               |               |
| 100.14          | 2.33          | 3.36          | 4.43          | 5.50          | 6.57          | 7.64          | 8.71          | 9.78          | 10.85         | 11.92         | 12.99         | 14.06         | 15.13         | 16.20         | 17.27         | 18.34         | 19.41         | 20.48         | 21.55         | 22.62         | 23.69         | 24.76         | 25.83         | 26.90         | 27.97         | 29.04         | 30.11         | 31.18         | 32.25         | 33.32         | 34.39         | 35.46         | 36.53         | 37.60         | 38.67         | 39.74         |               |               |
| 105.14          | 2.37          | 3.44          | 4.57          | 5.70          | 6.83          | 7.96          | 9.09          | 10.22         | 11.35         | 12.48         | 13.61         | 14.74         | 15.87         | 17.00         | 18.13         | 19.26         | 20.39         | 21.52         | 22.65         | 23.78         | 24.91         | 26.04         | 27.17         | 28.30         | 29.43         | 30.56         | 31.69         | 32.82         | 33.95         | 35.08         | 36.21         | 37.34         | 38.47         | 39.60         | 40.73         | 41.86         |               |               |
| 110.14          | 2.41          | 3.52          | 4.71          | 5.90          | 7.09          | 8.28          | 9.47          | 10.66         | 11.85         | 13.04         | 14.23         | 15.42         | 16.61         | 17.80         | 18.99         | 20.18         | 21.37         | 22.56         | 23.75         | 24.94         | 26.13         | 27.32         | 28.51         | 29.70         | 30.89         | 32.08         | 33.27         | 34.46         | 35.65         | 36.84         | 38.03         | 39.22         | 40.41         | 41.60         | 42.79         | 43.98         |               |               |
| 115.14          | 2.46          | 3.61          | 4.85          | 6.10          | 7.34          | 8.58          | 9.82          | 11.06         | 12.30         | 13.54         | 14.78         | 16.02         | 17.26         | 18.50         | 19.74         | 20.98         | 22.22         | 23.46         | 24.70         | 25.94         | 27.18         | 28.42         | 29.66         | 30.90         | 32.14         | 33.38         | 34.62         | 35.86         | 37.10         | 38.34         | 39.58         | 40.82         | 42.06         | 43.30         | 44.54         | 45.78         |               |               |
| 120.14          | 2.52          | 3.71          | 5.01          | 6.31          | 7.61          | 8.91          | 10.21         | 11.51         | 12.81         | 14.11         | 15.41         | 16.71         | 18.01         | 19.31         | 20.61         | 21.91         | 23.21         | 24.51         | 25.81         | 27.11         | 28.41         | 29.71         | 31.01         | 32.31         | 33.61         | 34.91         | 36.21         | 37.51         | 38.81         | 40.11         | 41.41         | 42.71         | 44.01         | 45.31         | 46.61         | 47.91         |               |               |
| 125.14          | 2.57          | 3.80          | 5.15          | 6.50          | 7.85          | 9.20          | 10.55         | 11.90         | 13.25         | 14.60         | 15.95         | 17.30         | 18.65         | 20.00         | 21.35         | 22.70         | 24.05         | 25.40         | 26.75         | 28.10         | 29.45         | 30.80         | 32.15         | 33.50         | 34.85         | 36.20         | 37.55         | 38.90         | 40.25         | 41.60         | 42.95         | 44.30         | 45.65         | 47.00         | 48.35         | 49.70         |               |               |
| 130.14          | 2.62          | 3.89          | 5.29          | 6.69          | 8.09          | 9.49          | 10.89         | 12.29         | 13.69         | 15.09         | 16.49         | 17.89         | 19.29         | 20.69         | 22.09         | 23.49         | 24.89         | 26.29         | 27.69         | 29.09         | 30.49         | 31.89         | 33.29         | 34.69         | 36.09         | 37.49         | 38.89         | 40.29         | 41.69         | 43.09         | 44.49         | 45.89         | 47.29         | 48.69         | 50.09         | 51.49         |               |               |
| 135.14          | 2.67          | 3.98          | 5.43          | 6.88          | 8.33          | 9.78          | 11.23         | 12.68         | 14.13         | 15.58         | 17.03         | 18.48         | 19.93         | 21.38         | 22.83         | 24.28         | 25.73         | 27.18         | 28.63         | 30.08         | 31.53         | 32.98         | 34.43         | 35.88         | 37.33         | 38.78         | 40.23         | 41.68         | 43.13         | 44.58         | 46.03         | 47.48         | 48.93         | 50.38         | 51.83         | 53.28         |               |               |
| 140.14          | 2.72          | 4.07          | 5.56          | 7.05          | 8.54          | 10.03         | 11.52         | 13.01         | 14.50         | 15.99         | 17.48         | 18.97         | 20.46         | 21.95         | 23.44         | 24.93         | 26.42         | 27.91         | 29.40         | 30.89         | 32.38         | 33.87         | 35.36         | 36.85         | 38.34         | 39.83         | 41.32         | 42.81         | 44.30         | 45.79         | 47.28         | 48.77         | 50.26         | 51.75         | 53.24         | 54.73         |               |               |
| 145.14          | 2.78          | 4.17          | 5.70          | 7.23          | 8.76          | 10.29         | 11.82         | 13.35         | 14.88         | 16.41         | 17.94         | 19.47         | 20.99         | 22.52         | 24.05         | 25.58         | 27.11         | 28.64         | 30.17         | 31.70         | 33.23         | 34.76         | 36.29         | 37.82         | 39.35         | 40.88         | 42.41         | 43.94         | 45.47         | 47.00         | 48.53         | 50.06         | 51.59         | 53.12         | 54.65         | 56.18         |               |               |
| 150.14          | 2.83          | 4.24          | 5.81          | 7.38          | 8.95          | 10.52         | 12.09         | 13.66         | 15.23         | 16.80         | 18.37         | 19.94         | 21.51         | 23.08         | 24.65         | 26.22         | 27.79         | 29.36         | 30.93         | 32.50         | 34.07         | 35.64         | 37.21         | 38.78         | 40.35         | 41.92         | 43.49         | 45.06         | 46.63         | 48.20         | 49.77         | 51.34         | 52.91         | 54.48         | 56.05         | 57.62         |               |               |
| 155.14          | 2.89          | 4.32          | 5.92          | 7.53          | 9.14          | 10.75         | 12.36         | 13.97         | 15.58         | 17.19         | 18.80         | 20.41         | 22.02         | 23.63         | 25.24         | 26.85         | 28.46         | 30.07         | 31.68         | 33.29         | 34.90         | 36.51         | 38.12         | 39.73         | 41.34         | 42.95         | 44.56         | 46.17         | 47.78         | 49.39         | 51.00         | 52.61         | 54.22         | 55.83         | 57.44         | 59.05         |               |               |
| 160.14          | 2.94          | 4.39          | 6.02          | 7.65          | 9.28          | 10.91         | 12.54         | 14.17         | 15.80         | 17.43         | 19.06         | 20.69         | 22.32         | 23.95         | 25.58         | 27.21         | 28.84         | 30.47         | 32.10         |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |

# Raw Data (ANT3@5G 4900MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |     |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |     |
| 90.82           | 0.43          | 0.15          | 0.14          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          |               |     |
| 90.82           | 0.57          | 0.33          | 0.09          | 0.63          | 1.18          | 1.73          | 1.58          | 1.43          | 1.28          | 1.54          | 1.8           | 2.05          | 1.73          | 1.41          | 1.09          | 0.31          | 0.48          | 1.27          | 1.42          | 1.56          | 1.71          | 1.67          | 1.53          | 1.48          | 1.39          | 1.28          | 1.17          | 1.03          | 0.94          | 0.91          | 0.10          | 11.62         | 13.07         | 14.52         | 13.29         | 12.06         | 10.82         |     |
| 100.82          | 0.71          | 0.61          | 0.51          | 0.97          | 1.43          | 1.89          | 1.84          | 1.79          | 1.74          | 2.06          | 1.38          | 2.7           | 2.25          | 1.79          | 1.34          | 0.29          | 0.77          | 1.83          | 1.4           | 1.67          | 1.84          | 1.63          | 1.51          | 1.41          | 1.34          | 1.24          | 1.13          | 1.03          | 0.94          | 0.91          | 0.10          | 11.62         | 13.07         | 14.52         | 13.29         | 12.06         | 10.82         |     |
| 150.82          | 1.85          | 1.89          | 0.93          | 1.3           | 1.67          | 2.04          | 2.09          | 2.14          | 2.19          | 2.57          | 2.06          | 3.34          | 3.76          | 3.17          | 1.89          | 0.26          | 1.06          | 2.39          | 4.58          | 6.78          | 8.97          | 7.08          | 5.19          | 3.1           | 6.08          | 8.87          | 11.65         | 10.71         | 9.76          | 8.82          | 9.9           | 10.97         | 12.05         | 11.64         | 11.23         | 10.82         |               |     |
| 200.82          | 1.18          | 1.36          | 1.64          | 1.92          | 2.2           | 2.35          | 2.49          | 2.64          | 2.92          | 3.41          | 3.8           | 4.15          | 4.14          | 2.49          | 1.84          | 1.24          | 1.35          | 2.95          | 5.16          | 7.38          | 9.6           | 7.23          | 4.87          | 2.51          | 5.93          | 9.36          | 12.79         | 11.24         | 10.29         | 9.85          | 10.94         | 9.93          | 10.82         | 10.82         | 10.82         | 10.82         |               |     |
| 250.82          | 1.14          | 1.46          | 1.78          | 2.02          | 2.21          | 2.51          | 2.8           | 2.9           | 3.29          | 3.48          | 3.68          | 3.15          | 2.61          | 2.08          | 1.72          | 1.64          | 1.5           | 3.73          | 7.99          | 10.23         | 7.69          | 5.15          | 2.61          | 6.38          | 10.15         | 13.93         | 11.71         | 10.62         | 9.47          | 8.17          | 8.88          | 9.58          | 10            | 10.41         | 10.82         |               |               |     |
| 300.82          | 1.28          | 1.74          | 2.1           | 2.19          | 2.17          | 2.15          | 2.42          | 2.7           | 2.97          | 3.17          | 3.36          | 3.56          | 3.1           | 2.43          | 1.86          | 1.03          | 1.92          | 3.82          | 6.16          | 8.51          | 10.86         | 8.15          | 5.45          | 2.75          | 6.58          | 10.41         | 14.25         | 11.84         | 9.42          | 7.01          | 7.46          | 7.9           | 8.35          | 9.17          | 10            | 10.82         |               |     |
| 350.82          | 1.28          | 1.75          | 2.21          | 2.17          | 2.13          | 2.09          | 2.3           | 2.5           | 2.71          | 2.95          | 3.2           | 3.44          | 3.83          | 3.22          | 1.61          | 0.16          | 1.93          | 3.7           | 6.01          | 8.33          | 10.65         | 8.06          | 5.47          | 2.89          | 6.76          | 10.63         | 14.51         | 11.99         | 9.47          | 6.95          | 7.3           | 7.64          | 7.99          | 8.93          | 9.88          | 10.82         |               |     |
| 400.82          | 1.23          | 1.64          | 2.05          | 2.04          | 2.04          | 2.03          | 2.17          | 2.31          | 2.45          | 2.74          | 3.04          | 3.33          | 3.67          | 3.02          | 1.37          | 0.28          | 1.93          | 3.58          | 5.75          | 7.93          | 10.11         | 7.75          | 5.39          | 3.03          | 6.94          | 10.86         | 14.77         | 12.14         | 9.52          | 6.89          | 7.25          | 7.61          | 7.97          | 8.92          | 9.87          | 10.82         |               |     |
| 450.82          | 1.17          | 1.53          | 1.88          | 1.91          | 1.94          | 1.97          | 2.05          | 2.12          | 2.2           | 2.53          | 2.87          | 3.21          | 3.51          | 2.82          | 1.02          | 0.41          | 1.93          | 3.45          | 5.49          | 7.51          | 9.57          | 7.44          | 5.3           | 3.17          | 7.12          | 11.08         | 15.03         | 12.3          | 9.56          | 6.83          | 7.2           | 7.58          | 7.95          | 8.91          | 9.87          | 10.82         |               |     |
| 500.82          | 1.12          | 1.42          | 1.72          | 1.78          | 1.85          | 1.91          | 1.92          | 1.93          | 1.94          | 2.32          | 2.71          | 3.09          | 3.35          | 2.61          | 0.87          | 0.53          | 1.93          | 3.33          | 5.23          | 7.13          | 9.03          | 7.12          | 5.21          | 3.11          | 7.3           | 11.3          | 15.29         | 12.45         | 9.61          | 6.77          | 7.16          | 7.55          | 7.93          | 8.9           | 9.86          | 10.82         |               |     |
| 550.82          | 1.06          | 1.31          | 1.55          | 1.65          | 1.75          | 1.85          | 1.79          | 1.74          | 1.68          | 2.11          | 2.54          | 2.98          | 3.19          | 2.41          | 0.62          | 0.66          | 1.93          | 3.21          | 4.97          | 6.73          | 8.5           | 6.81          | 5.13          | 3.45          | 4.28          | 11.52         | 15.55         | 12.6          | 9.66          | 6.71          | 7.11          | 7.51          | 7.91          | 8.88          | 9.85          | 10.82         |               |     |
| 600.82          | 1.01          | 1.2           | 1.39          | 1.52          | 1.65          | 1.79          | 1.67          | 1.55          | 1.42          | 1.9           | 2.38          | 2.86          | 3.03          | 1.2           | 0.37          | 0.78          | 1.93          | 3.09          | 4.71          | 6.33          | 7.96          | 6.5           | 5.04          | 3.59          | 7.66          | 11.74         | 15.81         | 12.76         | 9.7           | 6.65          | 7.07          | 7.48          | 7.9           | 8.87          | 9.85          | 10.82         |               |     |
| 650.82          | 0.95          | 1.09          | 1.22          | 1.39          | 1.56          | 1.73          | 1.54          | 1.35          | 1.17          | 1.69          | 2.22          | 2.74          | 1.87          | 1             | 0.12          | 0.91          | 1.94          | 2.97          | 4.45          | 5.94          | 7.42          | 6.19          | 4.96          | 3.73          | 7.84          | 11.96         | 16.07         | 12.91         | 9.75          | 6.59          | 7.02          | 7.45          | 7.88          | 8.86          | 9.84          | 10.82         |               |     |
| 700.82          | 0.82          | 0.9           | 1.08          | 1.06          | 1.26          | 1.46          | 1.67          | 1.41          | 1.16          | 1.91          | 2.48          | 2.95          | 2.62          | 1.71          | 0.79          | 1.12          | 1.93          | 1.94          | 2.84          | 4.19          | 5.54          | 6.88          | 5.88          | 4.87          | 3.86          | 8.02          | 12.18         | 16.33         | 13.07         | 9.8           | 6.53          | 6.97          | 7.42          | 7.86          | 8.85          | 9.84          | 10.82         |     |
| 750.82          | 0.84          | 0.87          | 1.09          | 1.09          | 1.13          | 1.37          | 1.61          | 1.29          | 0.97          | 2.65          | 3.27          | 3.89          | 3.51          | 1.55          | 0.49          | 0.37          | 1.16          | 1.94          | 2.72          | 3.93          | 5.14          | 6.34          | 5.56          | 4.78          | 4             | 8.2           | 12.4          | 16.6          | 13.22         | 9.85          | 6.47          | 6.91          | 7.38          | 7.84          | 8.83          | 9.83          | 10.82         |     |
| 800.82          | 0.79          | 0.75          | 0.72          | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7           | 0.7 |
| 850.82          | 0.73          | 0.64          | 0.56          | 0.89          | 1.22          | 1.55          | 1.08          | 0.61          | 0.14          | 3.86          | 5.57          | 2.9           | 1.24          | 3.18          | 0.87          | 1.41          | 1.94          | 2.48          | 3.41          | 4.34          | 5.27          | 4.83          | 4.4           | 3.97          | 8.35          | 12.73         | 17.12         | 13.53         | 9.94          | 6.35          | 6.83          | 7.32          | 7.8           | 8.81          | 9.82          | 10.82         |               |     |
| 900.82          | 0.67          | 0.53          | 0.39          | 0.82          | 1.24          | 1.66          | 1.07          | 0.47          | 0.12          | 3.65          | 4.42          | 2.19          | 1.09          | 0.01          | 1.12          | 1.53          | 1.94          | 2.36          | 3.15          | 3.94          | 4.73          | 4.44          | 4.14          | 3.85          | 8.33          | 13.82         | 17.31         | 13.64         | 9.97          | 6.29          | 6.79          | 7.29          | 7.78          | 8.8           | 9.81          | 10.82         |               |     |
| 950.82          | 0.62          | 0.42          | 0.23          | 0.74          | 1.26          | 1.77          | 1.17          | 0.56          | 0.05          | 3.67          | 4.38          | 2.09          | 1.05          | 0.01          | 1.03          | 1.43          | 1.83          | 2.24          | 2.89          | 3.54          | 4.19          | 4.04          | 3.88          | 3.73          | 7.91          | 12.1          | 16.28         | 12.93         | 9.58          | 6.23          | 6.74          | 7.25          | 7.76          | 8.78          | 9.8           | 10.82         |               |     |
| 1000.82         | 0.56          | 0.31          | 0.16          | 0.67          | 1.28          | 1.88          | 1.29          | 0.77          | 0.11          | 3.74          | 4.37          | 1.99          | 1.03          | 0.07          | 0.9           | 1.32          | 1.75          | 2.18          | 2.67          | 3.16          | 3.61          | 3.49          | 3.37          | 3.25          | 7.91          | 12.1          | 16.28         | 12.93         | 9.58          | 6.23          | 6.74          | 7.25          | 7.76          | 8.78          | 9.8           | 10.82         |               |     |
| 1050.82         | 0.58          | 0.35          | 0.17          | 0.74          | 1.37          | 1.99          | 1.42          | 0.85          | 0.28          | 3.78          | 4.52          | 2.06          | 1.09          | 0.12          | 1.12          | 1.77          | 2.13          | 2.69          | 3.15          | 3.54          | 3.97          | 3.31          | 3.37          | 3.43          | 3.49          | 10.26         | 16.42         | 12.69         | 9.17          | 6.65          | 7.01          | 7.37          | 7.73          | 8.76          | 9.79          | 10.82         |               |     |
| 1100.82         | 0.64          | 0.46          | 0.28          | 0.89          | 1.49          | 2.1           | 1.55          | 0.99          | 0.44          | 3.89          | 3.4           | 1.8           | 0.98          | 0.17          | 0.64          | 1.13          | 1.62          | 2.12          | 2.49          | 2.87          | 3.25          | 3.29          | 3.33          | 3.37          | 3.64          | 9.91          | 13.18         | 11.08         | 8.97          | 6.86          | 7.15          | 7.44          | 7.73          | 8.76          | 9.79          | 10.82         |               |     |
| 1150.82         | 0.69          | 0.56          | 0.44          | 0.93          | 1.62          | 2.21          | 1.67          | 1.14          | 0.36          | 3.96          | 3.33          | 1.7           | 0.96          | 0.22          | 0.52          | 1.04          | 1.56          | 2.08          | 2.45          | 2.82          | 3.19          | 3.21          | 3.23          | 3.25          | 3.62          | 9.18          | 12.15         | 10.46         | 8.77          | 7.08          | 7.3           | 7.52          | 7.73          | 8.76          | 9.79          | 10.82         |               |     |
| 1200.82         | 0.74          | 0.67          | 0.6           | 1.17          | 1.75          | 2.32          | 1.8           | 1.28          | 0.76          | 4.04          | 3.32          | 1.6           | 0.94          | 0.27          | 0.39          | 0.94          | 1.5           | 2.05          | 2.41          | 2.77          | 3.13          | 3.13          | 3.13          | 3.13          | 3.59          | 8.46          | 11.12         | 9.85          | 8.57          | 7.3           | 7.44          | 7.59          | 7.73          | 8.76          | 9.79          | 10.82         |               |     |
| 1250.82         | 0.78          | 0.78          | 0.78          | 1.32          | 1.87          | 2.43          | 1.93          | 1.42          | 0.93          | 4.12          | 3.33          | 1.5           | 0.91          | 0.32          | 0.26          | 0.85          | 1.44          | 2.03          | 2.37          | 2.72          | 3.07          | 3.05          | 3.03          | 3.03          | 3.57          | 7.73          | 10.09         | 9.23          | 8.57          | 7.52          | 7.59          | 7.66          | 7.73          | 8.76          | 9.79          | 10.82         |               |     |
| 1300.82         | 0.85          | 0.88          | 0.92          | 1.46          | 2.05          | 2.54          | 2.06          | 1.57          | 1.08          | 4.19          | 3.29          | 1.4           | 0.89          | 0.38          | 0.13          | 0.75          | 1.29          | 1.99          | 2.33          | 2.67          | 3.01          | 2.97          | 2.93          | 2.93          | 3.49          | 7.05          | 9.61          | 8.17          | 7.73          | 7.73          | 7.73          | 7.73          | 8.76          | 9.79          | 10.82         |               |               |     |
| 1350.82         | 0.9           | 0.99          | 1.08          | 1.6           | 2.13          | 2.65          | 2.18          | 1.71          | 1.24          | 4.26          | 3.28          | 1.3           | 0.86          | 0.43          | 0.01          | 0.66          | 1.31          | 1.96          | 2.29          | 2.62          | 2.95          | 2.89          | 2.83          | 2.77          | 4.52          | 6.27          | 8.02          | 8             | 7.98          | 7.95          | 7.88          | 7.8           | 7.73          | 8.76          | 9.79          | 10.82         |               |     |
| 1400.82         | 0.96          | 1.1           | 1.24          | 1.75          | 2.25          | 2.76          | 2.31          | 1.86          | 1.4           | 4.34          | 3.27          | 1.2           | 0.84          | 0.48          | 0.12          | 0.56          | 1.25          | 1.93          | 2.25          | 2.57          | 2.88          | 2.81          | 2.73          | 2.65          | 4.1           | 5.54          | 6.99          | 7.38          | 7.78          | 7.47          | 8.02          | 7.88          | 7.73          | 8.76          | 9.79          | 10.82         |               |     |
| 1450.82         | 1.01          | 1.2           | 1.4           | 1.89          | 2.38          | 2.87          | 2.44          | 1.9           | 1.56          | 4.41          | 3.26          | 1.1           | 0.82          | 0.53          | 0.25          | 0.47          | 1.19          | 1.9           | 2.21          | 2.52          | 2.82          | 2.73          | 2.63          | 2.53          | 3.67          | 4.82          | 5.86          | 6.77          | 7.58          | 8.39          | 8.17          | 7.95          | 7.73          | 8.76          | 9.79          | 10.82         |               |     |
| 1500.82         | 1.06          | 1.31          | 1.56          | 2.03          | 2.51          | 2.98          | 2.56          | 2.14          | 1.72          | 4.48          | 3.24          | 1.0           | 0.74          | 0.58          | 0.37          | 0.37          | 1.12          | 1.87          | 2.17          | 2.46          | 2.76          | 2.64          | 2.53          | 2.41          | 3.25          | 4.49          | 4.93          | 6.15          | 7.38          | 8.6           | 8.31          | 8.02          | 7.73          | 8.76          | 9.79          | 10.82         |               |     |
| 1550.82         | 1.12          | 1.42          | 1.72          | 2.18          | 2.63          | 3.09          | 2.69          | 2.29          | 1.89          | 4.56          | 3.23          | 0.9           | 0.77          | 0.63          | 0.35          | 0.28          | 1.06          | 1.84          | 2.13          | 2.41          | 2.7           | 2.56          | 2.43          | 2.29          | 2.83          | 3.36          | 3.89          | 5.54          | 7.18          | 8.82          | 8.46          | 8.09          | 7.73          | 8.76          | 9.79          | 10.82         |               |     |
| 1600.82         | 1.17          | 1.52          | 1.87          | 2.32          | 2.76          | 3.21          | 2.82          | 2.43          | 2.05          | 4.63          | 3.22          | 0.8           | 0.75          | 0.69          | 0.63          | 0.18          | 1             | 1.81          | 2.09          | 2.36          | 2.64          | 2.54          | 2.44          | 2.35          | 3.25          | 3.69          | 4.92          | 6.98          | 9.04          | 8.6           | 8.17          | 7.73          | 8.76          | 9.79          | 10.82         |               |               |     |
| 1650.82         | 1.22          | 1.63          | 2.03          | 2.39          | 2.74          | 3.09          | 2.79          | 2.5           | 2.21          | 4.71          | 3.21          | 0.72          | 0.73          | 0.74          | 0.76          | 0.09          | 0.93          | 1.78          | 2.04          | 2.31          | 2.58          | 2.55          | 2.52          | 2.49          | 3.27          | 3.05          | 4.3           | 6.78          | 9.26          | 8.75          | 8.24          | 7.73          | 8.76          | 9.79          | 10.82         |               |               |     |
| 1700.82         | 1.28          | 1.73          | 1.19          | 2.4           | 2.61          | 2.87          | 2.67          | 2.52          | 2.37          | 4.79          | 3.21          | 0.64          | 0.72          | 0.78          | 0.88          | 0.01          | 0.87          | 1.75</        |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |     |

## Raw Data (ANT3@5G 5500MHz)

| (Ph Angle) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |
|------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| (Ph Angle) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 014        | 1.69          | 2.24          | 0.21          | 3.1           | 1.81          | 1.32          | 1.42          | 1.53          | 1.63          | 1.44          | 1.25          | 1.05          | 1.06          | 1.07          | 1.08          | 0.4           | 0.27          | 0.95          | 2.99          | 5.04          | 7.08          | 6.53          | 5.97          | 5.41          | 6.3           | 7.19          | 8.08          | 9.37          | 10.66         | 11.96         | 11.15         | 11.04         | 10.58         | 9.4           | 8.23          | 7.06          |               |
| 14         | 1.05          | 1.84          | 0.48          | 1.82          | 1.35          | 1.45          | 1.54          | 1.63          | 1.44          | 1.25          | 1.05          | 1.06          | 1.07          | 1.08          | 0.4           | 0.27          | 0.95          | 2.99          | 5.04          | 7.08          | 6.53          | 5.97          | 5.41          | 6.3           | 7.19          | 8.08          | 9.37          | 10.66         | 11.96         | 11.15         | 11.04         | 10.58         | 9.4           | 8.23          | 7.06          |               |               |
| 27         | 1.05          | 1.84          | 0.48          | 1.82          | 1.35          | 1.45          | 1.54          | 1.63          | 1.44          | 1.25          | 1.05          | 1.06          | 1.07          | 1.08          | 0.4           | 0.27          | 0.95          | 2.99          | 5.04          | 7.08          | 6.53          | 5.97          | 5.41          | 6.3           | 7.19          | 8.08          | 9.37          | 10.66         | 11.96         | 11.15         | 11.04         | 10.58         | 9.4           | 8.23          | 7.06          |               |               |
| 40         | 1.05          | 1.84          | 0.48          | 1.82          | 1.35          | 1.45          | 1.54          | 1.63          | 1.44          | 1.25          | 1.05          | 1.06          | 1.07          | 1.08          | 0.4           | 0.27          | 0.95          | 2.99          | 5.04          | 7.08          | 6.53          | 5.97          | 5.41          | 6.3           | 7.19          | 8.08          | 9.37          | 10.66         | 11.96         | 11.15         | 11.04         | 10.58         | 9.4           | 8.23          | 7.06          |               |               |
| 53         | 1.05          | 1.84          | 0.48          | 1.82          | 1.35          | 1.45          | 1.54          | 1.63          | 1.44          | 1.25          | 1.05          | 1.06          | 1.07          | 1.08          | 0.4           | 0.27          | 0.95          | 2.99          | 5.04          | 7.08          | 6.53          | 5.97          | 5.41          | 6.3           | 7.19          | 8.08          | 9.37          | 10.66         | 11.96         | 11.15         | 11.04         | 10.58         | 9.4           | 8.23          | 7.06          |               |               |
| 66         | 1.05          | 1.84          | 0.48          | 1.82          | 1.35          | 1.45          | 1.54          | 1.63          | 1.44          | 1.25          | 1.05          | 1.06          | 1.07          | 1.08          | 0.4           | 0.27          | 0.95          | 2.99          | 5.04          | 7.08          | 6.53          | 5.97          | 5.41          | 6.3           | 7.19          | 8.08          | 9.37          | 10.66         | 11.96         | 11.15         | 11.04         | 10.58         | 9.4           | 8.23          | 7.06          |               |               |
| 79         | 1.05          | 1.84          | 0.48          | 1.82          | 1.35          | 1.45          | 1.54          | 1.63          | 1.44          | 1.25          | 1.05          | 1.06          | 1.07          | 1.08          | 0.4           | 0.27          | 0.95          | 2.99          | 5.04          | 7.08          | 6.53          | 5.97          | 5.41          | 6.3           | 7.19          | 8.08          | 9.37          | 10.66         | 11.96         | 11.15         | 11.04         | 10.58         | 9.4           | 8.23          | 7.06          |               |               |
| 92         | 1.05          | 1.84          | 0.48          | 1.82          | 1.35          | 1.45          | 1.54          | 1.63          | 1.44          | 1.25          | 1.05          | 1.06          | 1.07          | 1.08          | 0.4           | 0.27          | 0.95          | 2.99          | 5.04          | 7.08          | 6.53          | 5.97          | 5.41          | 6.3           | 7.19          | 8.08          | 9.37          | 10.66         | 11.96         | 11.15         | 11.04         | 10.58         | 9.4           | 8.23          | 7.06          |               |               |
| 105        | 1.05          | 1.84          | 0.48          | 1.82          | 1.35          | 1.45          | 1.54          | 1.63          | 1.44          | 1.25          | 1.05          | 1.06          | 1.07          | 1.08          | 0.4           | 0.27          | 0.95          | 2.99          | 5.04          | 7.08          | 6.53          | 5.97          | 5.41          | 6.3           | 7.19          | 8.08          | 9.37          | 10.66         | 11.96         | 11.15         | 11.04         | 10.58         | 9.4           | 8.23          | 7.06          |               |               |
| 118        | 1.05          | 1.84          | 0.48          | 1.82          | 1.35          | 1.45          | 1.54          | 1.63          | 1.44          | 1.25          | 1.05          | 1.06          | 1.07          | 1.08          | 0.4           | 0.27          | 0.95          | 2.99          | 5.04          | 7.08          | 6.53          | 5.97          | 5.41          | 6.3           | 7.19          | 8.08          | 9.37          | 10.66         | 11.96         | 11.15         | 11.04         | 10.58         | 9.4           | 8.23          | 7.06          |               |               |
| 131        | 1.05          | 1.84          | 0.48          | 1.82          | 1.35          | 1.45          | 1.54          | 1.63          | 1.44          | 1.25          | 1.05          | 1.06          | 1.07          | 1.08          | 0.4           | 0.27          | 0.95          | 2.99          | 5.04          | 7.08          | 6.53          | 5.97          | 5.            |               |               |               |               |               |               |               |               |               |               |               |               |               |               |



# Raw Data (ANT0@6G 5900MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0.5.0.1         | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          | 1.02          |               |
| 4.5.0.1         | 1.85          | 2.69          | 1.53          | 1.19          | 0.85          | 0.52          | 0.47          | 1.46          | 2.44          | 0.17          | 2.79          | 5.41          | 2.96          | 0.51          | 0.93          | 0.37          | 0.8           | 0.24          | 1.46          | 1.16          | 4.85          | 5.56          | 0.27          | 6.98          | 1.77          | 8.56          | 9.36          | 11.44         | 13.52         | 15.6          | 15.98         | 16.35         | 16.72         | 15.82         | 14.91         | 14            |               |
| 10.5.0.1        | 3.69          | 2.37          | 1.04          | 0.86          | 0.68          | 0.5           | 0.46          | 1.41          | 2.36          | 0.03          | 3.1           | 4.65          | 2.5           | 0.35          | 1.81          | 0.25          | 0.7           | 0.15          | 1.84          | 3.83          | 5.82          | 0.31          | 6.79          | 7.28          | 8.11          | 8.95          | 9.78          | 11.63         | 13.52         | 15.6          | 15.98         | 16.35         | 16.72         | 15.82         | 14.91         | 14            |               |
| 16.5.0.1        | 3.53          | 2.04          | 0.56          | 0.53          | 0.51          | 0.48          | 0.44          | 1.16          | 2.28          | 0.23          | 1.83          | 1.89          | 3.03          | 0.18          | 1.68          | 1.14          | 0.61          | 0.07          | 2.21          | 4.5           | 6.78          | 7.05          | 7.32          | 7.59          | 8.46          | 9.33          | 10.2          | 11.86         | 13.52         | 15.6          | 15.98         | 16.35         | 16.72         | 15.82         | 14.91         | 14            |               |
| 20.5.0.1        | 3.36          | 1.72          | 0.07          | 0.2           | 0.14          | 0.47          | 0.42          | 1.31          | 2.2           | 0.43          | 1.35          | 1.13          | 1.57          | 0.01          | 1.55          | 1.01          | 0.55          | 0.01          | 2.59          | 5.16          | 7.74          | 7.79          | 7.84          | 7.89          | 8.8           | 9.71          | 10.62         | 12.07         | 13.52         | 14.97         | 15.69         | 16.42         | 17.15         | 16.1          | 15.05         | 14            |               |
| 24.5.0.1        | 3.2           | 1.39          | 0.2           | 0.13          | 0.16          | 0.45          | 0.34          | 1.14          | 1.94          | 0.5           | 0.93          | 0.26          | 1.05          | 0.26          | 1.57          | 1.01          | 0.46          | 0.1           | 2.97          | 5.53          | 8.17          | 8.2           | 8.28          | 8.33          | 9.37          | 10.28         | 11.96         | 13.45         | 14.75         | 15.54         | 16.33         | 17.11         | 16.08         | 15.04         | 14            |               |               |
| 30.5.0.1        | 3.24          | 1.46          | 0.31          | 0.06          | 0.19          | 0.44          | 0.22          | 0.87          | 1.53          | 0.48          | 0.56          | 1.6           | 1.52          | 0.57          | 1.66          | 0.04          | 0.43          | 0.18          | 3.2           | 6.23          | 9.25          | 9             | 8.75          | 8.51          | 9.31          | 10.11         | 10.91         | 12.12         | 13.33         | 14.54         | 15.35         | 16.16         | 16.98         | 15.98         | 14.99         | 14            |               |
| 36.5.0.1        | 3.41          | 1.82          | 0.22          | 0.29          | 0.35          | 0.42          | 0.09          | 0.61          | 1.12          | 0.47          | 0.19          | 0.84          | 0.02          | 0.88          | 0.75          | 0.08          | 0.41          | 0.26          | 3.16          | 6.06          | 8.86          | 8.91          | 8.86          | 8.81          | 9.54          | 10.26         | 10.98         | 12.1          | 13.21         | 14.33         | 15.17         | 16            | 16.84         | 15.89         | 14.95         | 14            |               |
| 40.5.0.1        | 3.59          | 2.17          | 0.75          | 0.64          | 0.52          | 0.41          | 0.03          | 0.14          | 0.71          | 0.37          | 0.03          | 0.32          | 0.4           | 1.12          | 1.83          | 1.11          | 0.38          | 0.35          | 3.12          | 5.89          | 8.67          | 8.82          | 8.97          | 9.12          | 9.76          | 10.41         | 12.08         | 13.1          | 14.12         | 14.98         | 15.84         | 16.7          | 15.8          | 14.9          | 14            |               |               |
| 45.5.0.1        | 3.77          | 2.55          | 1.29          | 0.99          | 0.69          | 0.39          | 0.16          | 0.07          | 0.33          | 0.15          | 0.01          | 0.16          | 0.53          | 1.25          | 1.92          | 1.14          | 0.35          | 0.43          | 3.08          | 5.73          | 8.57          | 8.68          | 8.98          | 9.29          | 9.9           | 10.51         | 11.13         | 12.05         | 12.98         | 13.91         | 14.79         | 15.68         | 16.57         | 15.71         | 14.85         | 14            |               |
| 50.5.0.1        | 3.95          | 2.88          | 1.82          | 1.37          | 0.92          | 0.47          | 0.35          | 0.23          | 0.11          | 0.07          | 0.04          | 0.67          | 1.4           | 2.01          | 1.17          | 0.32          | 0.52          | 0.04          | 3.54          | 5.56          | 8.08          | 8.46          | 8.85          | 9.23          | 9.89          | 10.54         | 11.2          | 12.09         | 12.99         | 13.88         | 14.73         | 15.58         | 16.43         | 15.62         | 14.81         | 14            |               |
| 56.5.0.1        | 4.13          | 3.24          | 2.35          | 1.75          | 1.14          | 0.54          | 0.53          | 0.53          | 0.32          | 0.29          | 0.07          | 0.16          | 0.8           | 1.45          | 2.1           | 0.2           | 0.3           | 0.6           | 3.4           | 5.39          | 7.79          | 8.25          | 8.71          | 9.17          | 9.87          | 10.57         | 11.27         | 12.21         | 13.14         | 14.08         | 14.81         | 15.55         | 16.29         | 15.53         | 14.76         | 14            |               |
| 60.5.0.1        | 4.3           | 3.6           | 2.89          | 2.13          | 1.37          | 0.61          | 0.72          | 0.82          | 0.93          | 0.51          | 0.1           | 0.32          | 0.94          | 1.56          | 2.18          | 0.23          | 0.27          | 0.69          | 2.96          | 5.23          | 7.5           | 8.04          | 8.57          | 9.11          | 9.86          | 10.6          | 11.34         | 12.32         | 13.29         | 14.27         | 14.9          | 15.53         | 16.16         | 15.44         | 14.72         | 14            |               |
| 65.5.0.1        | 4.48          | 3.95          | 3.42          | 2.51          | 1.6           | 0.69          | 0.9           | 1.12          | 1.14          | 0.73          | 0.13          | 0.47          | 1.07          | 1.67          | 2.27          | 0.26          | 0.24          | 0.77          | 2.92          | 5.06          | 7.21          | 7.82          | 8.44          | 9.06          | 9.84          | 10.63         | 11.41         | 12.43         | 13.45         | 14.47         | 14.98         | 15.5          | 16.02         | 15.35         | 14.67         | 14            |               |
| 70.5.0.1        | 4.66          | 4.31          | 3.95          | 2.89          | 1.82          | 0.76          | 1.09          | 1.42          | 1.75          | 0.95          | 0.16          | 0.63          | 1.21          | 1.78          | 2.36          | 0.29          | 0.22          | 0.86          | 2.88          | 4.9           | 6.91          | 7.61          | 8.33          | 9             | 9.83          | 10.66         | 11.49         | 12.54         | 13.6          | 14.66         | 15.07         | 15.48         | 15.88         | 15.26         | 14.63         | 14            |               |
| 75.5.0.1        | 4.84          | 4.66          | 4.49          | 3.27          | 2.05          | 0.83          | 1.27          | 1.72          | 2.16          | 1.17          | 0.19          | 0.79          | 1.34          | 1.9           | 2.45          | 0.32          | 0.19          | 0.94          | 2.84          | 4.73          | 6.62          | 7.39          | 8.17          | 8.94          | 9.81          | 10.68         | 11.56         | 12.66         | 13.76         | 14.85         | 15.15         | 15.45         | 15.75         | 15.16         | 14.58         | 14            |               |
| 80.5.0.1        | 5.01          | 5.02          | 5.02          | 3.65          | 2.28          | 0.91          | 1.46          | 2.01          | 2.57          | 1.39          | 0.22          | 0.95          | 1.48          | 2.01          | 2.54          | 0.35          | 0.16          | 1.03          | 2.79          | 4.56          | 6.33          | 7.18          | 8.03          | 8.88          | 9.79          | 10.71         | 11.62         | 12.76         | 13.91         | 15.05         | 15.24         | 15.43         | 15.61         | 15.08         | 14.54         | 14            |               |
| 85.5.0.1        | 5.19          | 5.37          | 5.55          | 4.03          | 2.5           | 0.98          | 1.52          | 2.06          | 2.59          | 1.36          | 0.13          | 1.11          | 1.61          | 2.12          | 2.62          | 0.38          | 0.13          | 1.11          | 2.75          | 4.4           | 6.04          | 6.97          | 7.9           | 8.82          | 9.72          | 10.61         | 11.5          | 12.75         | 14            | 15.24         | 15.47         | 15.69         | 15.92         | 15.28         | 14.64         | 14            |               |
| 90.5.0.1        | 5.37          | 5.69          | 5.99          | 4.41          | 2.73          | 1.05          | 1.54          | 2.03          | 2.52          | 1.26          | 0             | 1.26          | 1.75          | 2.23          | 2.71          | 0.41          | 0.11          | 1.12          | 2.71          | 4.23          | 5.75          | 6.75          | 7.76          | 8.77          | 9.64          | 10.51         | 11.38         | 12.73         | 14.08         | 15.37         | 15.96         | 16.22         | 15.48         | 14.74         | 14            |               |               |
| 95.5.0.1        | 5.53          | 5.66          | 5.98          | 4.36          | 2.74          | 1.13          | 1.57          | 2.01          | 2.45          | 1.16          | 0.13          | 1.42          | 1.88          | 2.33          | 2.78          | 0.43          | 0.07          | 1.28          | 2.7           | 4.11          | 5.53          | 6.59          | 7.65          | 8.71          | 9.56          | 10.41         | 11.25         | 12.71         | 14.17         | 15.63         | 15.93         | 16.23         | 15.62         | 15.08         | 14.84         | 14            |               |
| 100.5.0.1       | 5.72          | 5.53          | 5.8           | 4.18          | 2.73          | 1.2           | 1.59          | 1.98          | 2.37          | 1.05          | 0.26          | 1.58          | 2.08          | 2.49          | 2.9           | 0.4           | 0.02          | 1.36          | 2.71          | 4.06          | 5.49          | 6.57          | 7.65          | 8.68          | 9.48          | 10.31         | 11.17         | 12.7          | 14.26         | 15.68         | 16.49         | 16.8          | 16.49         | 15.88         | 14.94         | 14            |               |
| 105.5.0.1       | 5.91          | 5.41          | 5.61          | 4.17          | 2.72          | 1.27          | 1.62          | 1.96          | 2.3           | 0.95          | 0.39          | 1.74          | 2.09          | 2.44          | 2.79          | 0.42          | 0.05          | 1.37          | 2.64          | 3.97          | 5.39          | 6.39          | 7.49          | 8.59          | 9.4           | 10.2          | 11.01         | 12.68         | 14.35         | 16.02         | 16.39         | 16.76         | 17.13         | 16.08         | 15.04         | 14            |               |
| 110.5.0.1       | 5.15          | 5.29          | 5.43          | 4.07          | 2.71          | 1.35          | 1.64          | 1.93          | 2.22          | 0.92          | 0.39          | 1.7           | 2.06          | 2.43          | 2.79          | 0.44          | 0.09          | 1.26          | 2.57          | 3.87          | 5.17          | 6.29          | 7.41          | 8.53          | 9.32          | 10.1          | 10.89         | 12.66         | 14.44         | 16.22         | 16.62         | 17.03         | 17.43         | 16.29         | 15.14         | 14            |               |
| 115.5.0.1       | 5.09          | 5.17          | 5.25          | 3.96          | 2.67          | 1.38          | 1.64          | 1.89          | 2.15          | 0.89          | 0.37          | 1.62          | 2.01          | 2.4           | 2.79          | 0.46          | 0.13          | 1.21          | 2.49          | 3.77          | 5.05          | 6.19          | 7.34          | 8.48          | 9.24          | 10            | 10.77         | 12.65         | 14.53         | 16.41         | 16.85         | 17.29         | 17.73         | 16.49         | 15.24         | 14            |               |
| 120.5.0.1       | 5.03          | 5.05          | 5.07          | 3.82          | 2.57          | 1.31          | 1.57          | 1.82          | 2.08          | 0.87          | 0.34          | 1.54          | 1.96          | 2.38          | 2.79          | 0.48          | 0.16          | 1.15          | 2.41          | 3.67          | 4.93          | 6.13          | 7.33          | 8.53          | 9.24          | 9.94          | 10.64         | 12.63         | 14.62         | 16.61         | 17.08         | 17.56         | 18.04         | 16.69         | 15.34         | 14            |               |
| 125.5.0.1       | 4.97          | 4.89          | 4.67          | 3.46          | 2.44          | 1.25          | 1.75          | 2             | 2.05          | 0.85          | 0.31          | 1.47          | 1.91          | 2.35          | 2.69          | 0.5           | 0.2           | 1.09          | 2.33          | 3.57          | 4.81          | 6.08          | 7.35          | 8.62          | 9.25          | 9.89          | 10.52         | 12.55         | 14.57         | 16.59         | 17.17         | 17.66         | 18.34         | 16.89         | 15.45         | 14            |               |
| 130.5.0.1       | 4.91          | 4.83          | 4.71          | 3.53          | 2.35          | 1.17          | 1.42          | 1.68          | 1.93          | 0.82          | 0.28          | 1.39          | 1.86          | 2.33          | 2.79          | 0.52          | 0.24          | 1.03          | 2.3           | 3.48          | 4.63          | 6.03          | 7.37          | 8.7           | 9.27          | 9.83          | 10.4          | 12.44         | 14.49         | 16.53         | 17.13         | 17.94         | 18.64         | 17.29         | 15.53         | 14            |               |
| 135.5.0.1       | 4.85          | 4.69          | 4.53          | 3.38          | 2.24          | 1.1           | 1.35          | 1.6           | 1.85          | 0.8           | 0.25          | 1.31          | 1.8           | 2.3           | 2.8           | 0.54          | 0.28          | 0.98          | 2.18          | 3.38          | 4.58          | 5.98          | 7.38          | 8.79          | 9.28          | 9.78          | 10.28         | 12.34         | 14.41         | 16.47         | 17.29         | 18.12         | 18.94         | 17.3          | 15.65         | 14            |               |
| 140.5.0.1       | 4.79          | 4.57          | 4.34          | 3.24          | 2.13          | 1.03          | 1.28          | 1.53          | 1.78          | 0.78          | 0.23          | 1.23          | 1.75          | 2.28          | 2.8           | 0.58          | 0.32          | 0.92          | 2.1           | 3.28          | 4.46          | 5.93          | 7.4           | 8.87          | 9.3           | 9.73          | 10.16         | 12.24         | 14.32         | 16.41         | 17.35         | 18.31         | 19.25         | 17.5          | 15.75         | 14            |               |
| 145.5.0.1       | 4.73          | 4.45          | 4.16          | 3.09          | 2.03          | 0.96          | 1.21          | 1.46          | 1.71          | 0.75          | 0.2           | 1.15          | 1.7           | 2.25          | 2.8           | 0.56          | 0.36          | 0.86          | 2.02          | 3.18          | 4.34          | 5.88          | 7.42          | 8.96          | 9.31          | 9.67          | 10.03         | 12.14         | 14.24         | 16.35         | 17.42         | 18.48         | 19.55         | 17.7          | 15.85         | 14            |               |
| 150.5.0.1       | 4.67          | 4.32          | 3.98          | 2.95          | 1.92          | 0.89          | 1.14          | 1.38          | 1.63          | 0.73          | 0.17          | 1.07          | 1.65          | 2.22          | 2.8           | 0.46          | 0.34          | 0.8           | 1.94          | 3.08          | 4.22          | 5.85          | 7.43          | 9.04          | 9.33          | 9.62          | 9.91          | 12.04         | 14.16         | 16.29         | 17.48         | 18.66         | 19.85         | 19.9          | 15.95         | 14            |               |
| 155.5.0.1       | 4.61          | 4.2           | 3.8           | 2.8           | 1.81          | 0.82          | 1.09          | 1.37          | 1.65          | 0.77          | 0.11          | 0.99          | 1.6           | 2.2           | 2.8           | 0.44          | 0.45          | 0.73          | 1.87          | 2.98          | 4.1           | 5.78          | 7.45          | 9.17          | 9.38          | 9.64          | 9.89          | 12.02         | 14.12         | 16.23         | 17.47         | 18.72         | 19.97         | 19.98         | 15.99         | 14            |               |
| 160.5.0.1       | 4.55          | 4.08          | 3.62          | 2.66          | 1.7           | 0.75          | 1.08          | 1.42          | 1.76          | 0.87          | 0.02          | 0.91          | 1.54          | 2.17          | 2.8           | 0.44          | 0.69          | 0.79          | 1.89          | 2.99          | 5.3           | 7.47          | 9.21          | 9.45          | 9.68          | 9.92          | 12            | 14.08         | 16.16         | 17.39         | 18.62         | 19.85         | 19.9          | 15.95         | 14            |               |               |
| 165.5.0.1       | 4.49          | 3.96          | 3.44          | 2.52          | 1.6           | 0.68          | 1.07          | 1.47          | 1.87          | 0.97          | 0.07          | 0.83          | 1.48          | 2.13          | 2.78          | 0.65          | 0.51          | 0.63          | 1.71          | 2.79          | 3.87          | 5.68          | 7.48          | 9.29          | 9.51          | 9.73          | 9.95          | 12            | 14.05         | 16.1          | 17.31         | 18.52         | 19.73         | 17.82         | 15.91         | 14            |               |
| 170.5.0.1       | 4.44          | 3             |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |

# Raw Data (ANT0@6G 6500MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |               |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0.4.14          | 1.99          | 1.34          | 0.69          | 0.55          | 0.28          | 0.62          | 0.53          | 0.41          | 0.25          | 0.69          | 0.54          | 0.69          | 0.44          | 0.34          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          | 0.13          |               |
| 5.4.14          | 2.97          | 1.81          | 0.65          | 0.64          | 0.63          | 0.62          | 0.27          | 0.17          | 2.06          | 0.84          | 0.62          | 0.4           | 0.04          | 1.48          | 2.91          | 1.97          | 1.03          | 0.09          | 0.97          | 1.85          | 2.72          | 3.7           | 4.67          | 5.64          | 6.45          | 7.27          | 8.09          | 9.12          | 14.34         | 17.47         | 17.01         | 16.55         | 16.08         | 14.94         | 13.8          | 12.66         |               |               |
| 10.4.14         | 2.96          | 1.79          | 0.61          | 0.62          | 0.62          | 0.63          | 0.15          | 0.94          | 1.72          | 0.57          | 0.42          | 0.27          | 0.1           | 1.08          | 2.25          | 1.54          | 0.84          | 0.14          | 1.08          | 2.03          | 2.98          | 3.91          | 4.84          | 5.77          | 6.7           | 7.63          | 8.56          | 11.38         | 14.2          | 17.03         | 16.63         | 16.23         | 15.83         | 14.78         | 13.72         | 12.66         |               |               |
| 15.4.14         | 2.95          | 1.76          | 0.58          | 0.59          | 0.6           | 0.62          | 0.05          | 0.71          | 1.38          | 0.3           | 0.22          | 0.14          | 0.24          | 0.67          | 1.58          | 1.11          | 0.65          | 0.18          | 1.2           | 2.22          | 3.23          | 4.12          | 5.01          | 5.89          | 6.94          | 7.99          | 9.04          | 11.55         | 14.07         | 16.58         | 16.25         | 15.91         | 15.58         | 14.61         | 13.64         | 12.66         |               |               |
| 20.4.14         | 2.94          | 1.74          | 0.54          | 0.56          | 0.59          | 0.61          | 0.06          | 0.48          | 1.03          | 0.33          | 0.22          | 0.2           | 0.37          | 0.27          | 0.92          | 0.68          | 0.45          | 0.22          | 1.31          | 2.4           | 3.49          | 4.33          | 5.18          | 6.02          | 7.19          | 8.35          | 9.51          | 11.72         | 13.91         | 16.13         | 15.87         | 15.6          | 15.33         | 14.44         | 13.55         | 12.66         |               |               |
| 25.4.14         | 2.92          | 1.71          | 0.5           | 0.53          | 0.57          | 0.6           | 0.18          | 0.24          | 0.65          | 0.33          | 0.31          | 0.89          | 0.4           | 0.09          | 0.59          | 0.48          | 0.37          | 0.27          | 1.42          | 2.58          | 3.74          | 4.54          | 5.35          | 6.15          | 7.35          | 8.54          | 9.74          | 11.72         | 13.7          | 15.69         | 15.54         | 15.39         | 15.23         | 14.39         | 13.53         | 12.66         |               |               |
| 30.4.14         | 2.98          | 1.83          | 0.68          | 0.65          | 0.62          | 0.59          | 0.31          | 0.03          | 0.25          | 0.42          | 0.59          | 0.76          | 0.37          | 0.02          | 0.41          | 0.37          | 0.34          | 0.31          | 1.51          | 2.72          | 3.92          | 4.71          | 5.49          | 6.28          | 7.44          | 8.61          | 9.78          | 11.6          | 13.42         | 15.24         | 15.25         | 15.26         | 15.26         | 14.39         | 13.53         | 12.66         |               |               |
| 35.4.14         | 3.1           | 2.06          | 1.02          | 0.88          | 0.73          | 0.58          | 0.44          | 0.29          | 0.15          | 0.11          | 0.37          | 0.63          | 0.35          | 0.06          | 0.23          | 0.25          | 0.28          | 0.31          | 1.53          | 2.74          | 3.95          | 4.77          | 5.49          | 6.41          | 7.54          | 8.68          | 9.81          | 11.47         | 13.13         | 14.79         | 14.95         | 15.11         | 15.27         | 14.4          | 13.53         | 12.66         |               |               |
| 40.4.14         | 3.21          | 2.29          | 1.36          | 1.1           | 0.84          | 0.57          | 0.56          | 0.56          | 0.55          | 0.18          | 0.19          | 0.56          | 0.36          | 0.15          | 0.05          | 0.12          | 0.19          | 0.27          | 1.51          | 3.75          | 3.98          | 4.83          | 5.68          | 6.54          | 7.64          | 8.74          | 9.85          | 11.35         | 12.85         | 14.35         | 14.66         | 14.99         | 15.32         | 14.44         | 13.53         | 12.66         |               |               |
| 45.4.14         | 3.33          | 2.51          | 1.7           | 1.32          | 0.94          | 0.55          | 0.69          | 0.52          | 0.55          | 0.45          | 0.06          | 0.56          | 0.42          | 0.28          | 0.13          | 0.01          | 0.11          | 0.22          | 1.49          | 2.75          | 4.02          | 4.9           | 5.79          | 6.68          | 7.75          | 8.82          | 9.89          | 11.22         | 12.56         | 13.9          | 14.36         | 14.82         | 15.29         | 14.41         | 13.54         | 12.66         |               |               |
| 50.4.14         | 3.44          | 2.74          | 2.05          | 1.47          | 0.9           | 0.33          | 0.67          | 1.01          | 1.36          | 0.71          | 0.07          | 0.57          | 0.48          | 0.4           | 0.31          | 0.15          | 0.02          | 0.18          | 1.47          | 2.76          | 4.05          | 4.98          | 5.91          | 6.85          | 7.87          | 8.9           | 9.92          | 11.2          | 12.47         | 13.75         | 14.26         | 14.78         | 15.3          | 14.42         | 13.54         | 12.66         |               |               |
| 55.4.14         | 3.55          | 2.97          | 2.39          | 1.63          | 0.87          | 0.11          | 0.66          | 1.21          | 1.16          | 0.28          | 0.07          | 0.57          | 0.55          | 0.52          | 0.49          | 0.28          | 0.07          | 0.14          | 1.45          | 2.76          | 4.08          | 5.06          | 6.04          | 7.02          | 8             | 8.98          | 9.96          | 11.29         | 12.62         | 13.94         | 14.4          | 14.85         | 15.3          | 14.42         | 13.54         | 12.66         |               |               |
| 60.4.14         | 3.67          | 3.2           | 2.73          | 1.78          | 0.83          | 0.11          | 0.64          | 1.4           | 1.26          | 0.25          | 0.33          | 0.58          | 0.61          | 0.64          | 0.67          | 0.42          | 0.16          | 0.09          | 1.43          | 2.77          | 4.11          | 5.14          | 6.16          | 7.19          | 8.12          | 9.06          | 10            | 11.38         | 12.76         | 14.14         | 14.53         | 14.99         | 15.31         | 14.43         | 13.55         | 12.66         |               |               |
| 65.4.14         | 3.78          | 3.42          | 3.07          | 1.93          | 0.8           | 0.33          | 0.63          | 1.6           | 2.56          | 1.51          | 0.46          | 0.58          | 0.67          | 0.76          | 0.85          | 0.55          | 0.25          | 0.05          | 1.41          | 3.78          | 4.14          | 5.21          | 6.29          | 7.36          | 8.25          | 9.14          | 10.03         | 11.47         | 12.9          | 14.33         | 14.66         | 14.99         | 15.32         | 14.44         | 13.55         | 12.66         |               |               |
| 70.4.14         | 3.89          | 3.65          | 3.41          | 2.09          | 0.76          | 0.56          | 0.62          | 1.79          | 2.96          | 1.78          | 0.59          | 0.59          | 0.74          | 0.88          | 1.03          | 0.68          | 0.34          | 0.01          | 1.4           | 2.78          | 4.17          | 5.29          | 6.41          | 7.53          | 8.38          | 9.22          | 10.07         | 11.56         | 13.04         | 14.53         | 14.88         | 15.06         | 15.33         | 14.44         | 13.55         | 12.66         |               |               |
| 75.4.14         | 4.01          | 3.88          | 3.75          | 2.24          | 0.73          | 0.78          | 0.6           | 1.98          | 3.37          | 2.05          | 0.73          | 0.59          | 0.8           | 1.21          | 1.82          | 1.43          | 0.81          | 0.38          | 2.79          | 4.2           | 5.37          | 6.53          | 7.7           | 8.5           | 9.3           | 10.11         | 11.65         | 13.18         | 14.72         | 14.93         | 15.14         | 15.34         | 14.45         | 13.56         | 12.66         |               |               |               |
| 80.4.14         | 4.12          | 4.1           | 4.09          | 2.39          | 0.69          | 0.78          | 0.59          | 2.18          | 3.77          | 2.31          | 0.86          | 0.6           | 0.86          | 1.33          | 1.39          | 1.95          | 1.51          | 0.88          | 3.46          | 2.8           | 4.23          | 5.44          | 6.66          | 7.87          | 8.63          | 9.39          | 10.14         | 11.74         | 13.33         | 14.92         | 15.06         | 15.21         | 15.35         | 14.45         | 13.56         | 12.66         |               |               |
| 85.4.14         | 4.23          | 4.33          | 4.43          | 2.54          | 0.66          | 0.72          | 0.44          | 2.09          | 3.75          | 2.3           | 0.85          | 0.6           | 0.93          | 1.25          | 1.57          | 1.09          | 0.6           | 0.12          | 1.34          | 2.8           | 4.26          | 5.52          | 6.78          | 8.04          | 8.76          | 9.47          | 10.19         | 11.83         | 13.47         | 15.11         | 15.16         | 15.22         | 15.27         | 14.4          | 13.53         | 12.66         |               |               |
| 90.4.14         | 4.35          | 4.46          | 4.77          | 2.7           | 0.62          | 0.45          | 0.25          | 1.94          | 3.63          | 2.22          | 0.8           | 0.61          | 0.99          | 1.37          | 1.75          | 1.22          | 0.69          | 0.16          | 1.32          | 3.81          | 4.29          | 5.6           | 6.9           | 8.21          | 8.89          | 9.56          | 10.24         | 11.93         | 13.62         | 15.31         | 15.27         | 15.22         | 15.18         | 14.4          | 13.5          | 12.66         |               |               |
| 95.4.14         | 4.37          | 4.61          | 4.85          | 2.68          | 0.5           | 0.67          | 0.06          | 1.78          | 3.53          | 2.13          | 0.76          | 0.61          | 1.04          | 1.47          | 1.9           | 1.34          | 0.77          | 0.21          | 1.31          | 2.82          | 4.33          | 5.68          | 7.03          | 8.38          | 9.01          | 9.65          | 10.29         | 12.02         | 13.76         | 15.5          | 15.27         | 15.23         | 15.1          | 14.29         | 13.47         | 12.66         |               |               |
| 100.4.14        | 4.39          | 4.64          | 4.9           | 2.64          | 0.37          | 0.89          | 0.13          | 0.62          | 1.38          | 0.55          | 0.71          | 0.62          | 1.06          | 1.49          | 1.93          | 1.47          | 0.8           | 0.27          | 1.16          | 2.85          | 4.38          | 5.77          | 7.16          | 8.55          | 9.14          | 9.74          | 10.33         | 12.12         | 13.91         | 15.7          | 15.47         | 15.42         | 15.01         | 14.23         | 13.45         | 12.66         |               |               |
| 105.4.14        | 4.41          | 4.68          | 4.95          | 2.59          | 0.24          | 1.11          | 0.12          | 1.47          | 1.26          | 0.96          | 0.67          | 0.62          | 0.7           | 1.52          | 1.96          | 1.32          | 0.68          | 0.04          | 1.45          | 3.4           | 4.83          | 5.86          | 7.29          | 8.72          | 9.27          | 9.83          | 10.38         | 12.22         | 14.06         | 15.89         | 15.57         | 15.25         | 14.93         | 14.17         | 13.42         | 12.66         |               |               |
| 110.4.14        | 4.42          | 4.71          | 5             | 2.55          | 0.11          | 1.34          | 0.51          | 1.31          | 1.13          | 1.195         | 0.77          | 0.41          | 0.94          | 1.46          | 1.99          | 1.26          | 0.53          | 0.2           | 1.63          | 3.05          | 4.48          | 5.95          | 7.42          | 8.89          | 9.4           | 9.91          | 10.43         | 12.31         | 14.2          | 16.09         | 15.67         | 15.26         | 14.84         | 14.12         | 13.39         | 12.66         |               |               |
| 115.4.14        | 4.44          | 4.75          | 5.05          | 2.55          | 0.05          | 1.46          | 0.64          | 1.19          | 3.01          | 1.96          | 0.9           | 0.15          | 0.78          | 1.4           | 2.02          | 1.2           | 0.38          | 0.44          | 1.81          | 3.17          | 4.53          | 6.04          | 7.55          | 9.06          | 9.53          | 10            | 10.47         | 12.41         | 14.35         | 16.28         | 15.78         | 15.27         | 14.76         | 14.06         | 13.36         | 12.66         |               |               |
| 120.4.14        | 4.46          | 4.78          | 5.1           | 2.64          | 0.18          | 1.28          | 0.56          | 1.16          | 2.88          | 1.96          | 1.03          | 0.11          | 0.61          | 1.33          | 2.05          | 1.14          | 0.23          | 0.68          | 1.98          | 3.28          | 4.58          | 5.98          | 7.38          | 8.79          | 9.36          | 9.94          | 10.52         | 12.51         | 14.49         | 16.48         | 15.88         | 15.27         | 14.67         | 14            | 13.3          | 12.66         |               |               |
| 125.4.14        | 4.47          | 4.81          | 5.15          | 2.73          | 0.32          | 1.48          | 1.14          | 2.76          | 1.96          | 1.17          | 0.37          | 0.45          | 1.27          | 2.08          | 2.08          | 1.08          | 0.08          | 0.02          | 2.16          | 3.39          | 4.63          | 5.89          | 7.15          | 8.41          | 9.13          | 9.89          | 10.57         | 12.43         | 14.28         | 16.14         | 15.62         | 15.11         | 14.59         | 13.89         | 13.01         | 12.66         |               |               |
| 130.4.14        | 4.49          | 4.85          | 5.2           | 2.83          | 0.45          | 0.92          | 0.4           | 1.12          | 2.64          | 1.97          | 0.1           | 0.63          | 0.29          | 2.2           | 2.11          | 1.02          | 0.07          | 0.16          | 2.34          | 3.51          | 4.68          | 5.8           | 6.92          | 8.03          | 8.89          | 9.75          | 10.61         | 12.5          | 14.56         | 15.29         | 14.9          | 14.5          | 13.89         | 13.28         | 12.66         |               |               |               |
| 135.4.14        | 4.51          | 4.88          | 5.25          | 2.92          | 0.59          | 1.24          | 0.33          | 1.09          | 2.51          | 1.97          | 0.43          | 0.89          | 0.32          | 1.13          | 2.14          | 0.96          | 0.22          | 0.4           | 2.51          | 3.62          | 4.73          | 5.71          | 6.68          | 7.66          | 8.66          | 9.66          | 10.66         | 12.68         | 13.71         | 15.23         | 14.96         | 14.69         | 14.42         | 13.83         | 13.25         | 12.66         |               |               |
| 140.4.14        | 4.52          | 4.91          | 5.3           | 3.01          | 0.72          | 1.56          | 0.25          | 1.07          | 2.39          | 1.97          | 0.56          | 1.15          | 0.04          | 1.07          | 2.17          | 0.9           | 0.37          | 0.165         | 2.69          | 3.73          | 4.78          | 5.61          | 6.45          | 7.28          | 8.42          | 9.57          | 10.71         | 12.06         | 13.42         | 14.77         | 14.63         | 14.48         | 14.33         | 13.78         | 13.22         | 12.66         |               |               |
| 145.4.14        | 4.54          | 4.95          | 5.36          | 3.11          | 0.86          | 1.39          | 0.17          | 1.05          | 2.26          | 1.98          | 0.69          | 1.41          | 0.2           | 1             | 2.2           | 0.84          | 0.52          | 1.89          | 2.87          | 3.85          | 4.83          | 5.52          | 6.21          | 6.9           | 8.19          | 9.47          | 10.76         | 11.94         | 13.13         | 14.32         | 14.3          | 14.27         | 14.25         | 13.72         | 13.19         | 12.66         |               |               |
| 150.4.14        | 4.56          | 4.98          | 5.41          | 3.2           | 1             | 1.21          | 0.09          | 1.02          | 2.14          | 1.98          | 0.83          | 1.67          | 0.37          | 0.93          | 2.24          | 1.28          | 0.67          | 0.23          | 3.04          | 3.96          | 4.88          | 5.43          | 5.98          | 6.53          | 7.95          | 9.38          | 10.8          | 11.82         | 12.84         | 13.86         | 13.96         | 14.06         | 14.16         | 13.66         | 13.16         | 12.66         |               |               |
| 155.4.14        | 4.58          | 5.02          | 5.46          | 3.3           | 1.13          | 0.3           | 0.2           | 1             | 2.01          | 1.98          | 0.96          | 1.93          | 0.53          | 0.87          | 2.27          | 1.42          | 0.82          | 0.37          | 3.23          | 4.07          | 4.93          | 5.34          | 5.74          | 6.15          | 7.75          | 9.36          | 10.96         | 12.58         | 13.99         | 13.41         | 13.65         | 13.3          | 14.15         | 13.65         | 13.16         | 12.66         |               |               |
| 160.4.14        | 4.59          | 5.05          | 5.51          | 3.39          | 1.27          | 0.85          | 0.06          | 0.96          | 1.87          | 1.97          | 1.08          | 2.19          | 0.69          | 0.8           | 2.3           | 1.66          | 0.97          | 0.21          | 3.4           | 4.19          | 4.98          | 5.24          | 5.51          | 5.78          | 7.57          | 9.37          | 11.17         | 12.76         | 12.36         | 12.95         | 13.37         | 13.79         | 14.21         | 13.7          | 13.18         | 12.66         |               |               |
| 165.4.14        | 4.61          | 5.08          | 5.56          | 3.48          | 1.4           | 0.67          | 0.13          | 0.93          | 1.73          | 1.97          | 1.21          | 2.45          | 0.87          | 0.71          | 2.39          | 1.58          | 1.13          | 2.85          | 3.57          | 4.3           | 5.03          | 5.15          | 5.27          | 5.4           | 7.39          | 9.38          | 11.37         | 12.75         | 12.12         | 12.5          | 13.09         |               |               |               |               |               |               |               |

# Raw Data (ANT0@6G 7200MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0.5,43          | 1.21          | 1.09          | 1.16          | 1.16          | 1.05          | 1.19          | 1.12          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          | 1.19          |               |
| 5.5,43          | 4.08          | 2.72          | 1.36          | 0.94          | 0.52          | 0.1           | 1.24          | 2.57          | 3.9           | 2.06          | 1.79          | 1.44          | 2.23          | 3.17          | 2.58          | 2.26          | 1.94          | 1.62          | 1.07          | 1.49          | 3.04          | 3.99          | 4.93          | 5.88          | 7.12          | 8.35          | 9.59          | 11.27         | 12.95         | 14.62         | 14.66         | 14.7          | 14.74         | 14.41         | 13.79         | 13.79         |               |
| 10.5,43         | 3.94          | 2.45          | 0.95          | 0.63          | 0.32          | 0             | 1.25          | 2.51          | 3.76          | 1.26          | 1.24          | 1.75          | 1.67          | 3.4           | 2.47          | 2.11          | 1.74          | 1.37          | 0.96          | 2.1           | 3.84          | 4.58          | 5.32          | 6.06          | 7.58          | 9.09          | 10.61         | 11.98         | 13.35         | 14.71         | 14.87         | 15.02         | 15.17         | 14.71         | 14.25         | 13.79         |               |
| 15.5,43         | 3.8           | 2.17          | 0.54          | 0.32          | 0.11          | 0.11          | 1.28          | 2.45          | 3.62          | 1.46          | 0.7           | 2.85          | 1.1           | 1.63          | 3.37          | 2.96          | 1.54          | 1.13          | 0.79          | 3.72          | 4.64          | 5.18          | 5.71          | 6.25          | 8.04          | 9.83          | 11.62         | 13.69         | 13.76         | 14.83         | 15.08         | 15.34         | 15.59         | 14.99         | 14.39         | 13.79         |               |
| 20.5,43         | 3.67          | 1.9           | 0.14          | 0.32          | 0.11          | 0.23          | 1.31          | 2.39          | 3.47          | 1.66          | 0.15          | 1.96          | 0.55          | 1.86          | 3.62          | 2.27          | 1.81          | 1.34          | 0.88          | 4.21          | 5.44          | 5.77          | 6.1           | 6.43          | 8.5           | 10.57         | 12.64         | 13.4          | 14.17         | 14.93         | 15.3          | 15.66         | 16.02         | 15.28         | 14.53         | 13.79         |               |
| 25.5,43         | 3.53          | 1.63          | 0.27          | 0.29          | 0.32          | 0.34          | 1.27          | 2.21          | 3.14          | 1.74          | 0.33          | 1.07          | 0.24          | 1.15          | 3.26          | 2.2           | 1.8           | 1.64          | 1.66          | 4.95          | 6.24          | 6.37          | 6.49          | 6.61          | 8.76          | 10.91         | 13.06         | 13.72         | 14.38         | 15.04         | 15.65         | 16.26         | 16.87         | 15.84         | 14.82         | 13.79         |               |
| 30.5,43         | 3.53          | 1.64          | 0.26          | 0.33          | 0.39          | 0.45          | 1.18          | 1.92          | 2.65          | 1.71          | 0.76          | 0.18          | 0.65          | 1.47          | 2.29          | 1.66          | 1.03          | 0.39          | 1.98          | 4.35          | 6.72          | 6.75          | 6.77          | 6.8           | 8.88          | 10.95         | 13.03         | 13.74         | 14.44         | 15.14         | 16.08         | 17.02         | 17.95         | 16.57         | 15.18         | 13.79         |               |
| 35.5,43         | 3.64          | 1.84          | 0.04          | 0.16          | 0.36          | 0.56          | 1.1           | 1.63          | 2.16          | 1.68          | 1.2           | 0.71          | 1.25          | 1.79          | 2.33          | 1.62          | 0.92          | 0.22          | 2.04          | 4.29          | 6.55          | 6.69          | 6.84          | 6.98          | 8.99          | 11            | 13.01         | 13.75         | 14.5          | 15.24         | 16.51         | 17.28         | 17.04         | 17.29         | 15.54         | 13.79         |               |
| 40.5,43         | 3.74          | 2.04          | 0.34          | 0             | 0.34          | 0.68          | 1.01          | 1.34          | 1.68          | 1.55          | 0.43          | 1.31          | 1.66          | 2.01          | 2.36          | 1.61          | 0.87          | 0.12          | 2.04          | 4.21          | 6.37          | 6.64          | 6.9           | 7.17          | 9.1           | 11.04         | 12.98         | 13.77         | 14.56         | 15.35         | 16.94         | 18.54         | 20.13         | 18.02         | 15.9          | 13.79         |               |
| 45.5,43         | 3.84          | 2.24          | 0.64          | 0.17          | 0.31          | 0.78          | 1.02          | 1.05          | 1.19          | 1.27          | 1.35          | 1.43          | 1.75          | 2.07          | 2.4           | 1.6           | 0.81          | 0.02          | 2.05          | 4.12          | 6.2           | 6.57          | 6.95          | 7.33          | 9.21          | 11.08         | 12.96         | 13.79         | 14.62         | 15.45         | 17.37         | 19.1          | 21.22         | 18.74         | 16.27         | 13.79         |               |
| 50.5,43         | 3.94          | 2.44          | 0.94          | 0.45          | 0.04          | 0.54          | 1.59          | 1.65          | 1.37          | 1.29          | 1.27          | 1.36          | 1.85          | 2.14          | 2.43          | 1.59          | 0.76          | 0.08          | 2.06          | 4.04          | 6.02          | 6.5           | 6.98          | 7.46          | 9.29          | 11.11         | 12.93         | 13.82         | 14.71         | 15.59         | 17.83         | 20.07         | 22.31         | 20.47         | 16.63         | 13.79         |               |
| 55.5,43         | 4.04          | 2.64          | 1.25          | 0.73          | 0.22          | 0.3           | 1.27          | 1.24          | 1.21          | 1.17          | 1.19          | 1.68          | 1.94          | 2.2           | 2.47          | 1.59          | 0.71          | 0.17          | 2.07          | 3.96          | 5.85          | 6.43          | 7.01          | 7.6           | 9.37          | 11.14         | 12.91         | 13.87         | 14.83         | 15.79         | 18.32         | 20.86         | 23.39         | 20.19         | 16.99         | 13.79         |               |
| 60.5,43         | 4.14          | 2.84          | 1.55          | 1.01          | 0.48          | 0.06          | 0.05          | 0.16          | 0.27          | 1.42          | 1.11          | 1.8           | 2.04          | 2.27          | 2.5           | 1.58          | 0.65          | 0.27          | 2.07          | 3.87          | 5.67          | 6.36          | 7.04          | 7.73          | 9.45          | 11.16         | 12.88         | 13.91         | 14.95         | 15.98         | 18.82         | 21.65         | 24.48         | 20.92         | 17.35         | 13.79         |               |
| 65.5,43         | 4.24          | 3.04          | 1.85          | 1.3           | 0.74          | 0.18          | 0.38          | 0.57          | 0.76          | 1.14          | 1.03          | 1.93          | 2.13          | 2.33          | 2.53          | 1.57          | 0.6           | 0.37          | 2.08          | 3.79          | 5.5           | 6.29          | 7.07          | 7.86          | 9.53          | 11.19         | 12.85         | 13.96         | 15.07         | 16.18         | 19.31         | 22.44         | 25.57         | 21.64         | 17.72         | 13.79         |               |
| 70.5,43         | 4.34          | 3.25          | 2.15          | 1.58          | 1             | 0.43          | 0.7           | 0.97          | 1.25          | 1.15          | 1.95          | 2.05          | 2.23          | 2.4           | 2.57          | 1.56          | 0.54          | 0.47          | 2.09          | 3.71          | 5.52          | 6.21          | 7.1           | 7.99          | 9.61          | 11.22         | 12.83         | 14.01         | 15.19         | 16.37         | 19.8          | 23.23         | 26.66         | 22.37         | 18.08         | 13.79         |               |
| 75.5,43         | 4.44          | 3.45          | 2.45          | 1.86          | 1.26          | 0.67          | 1.02          | 1.38          | 1.74          | 1.43          | 1.87          | 1.18          | 2.32          | 2.46          | 2.6           | 1.55          | 0.49          | 0.57          | 2.1           | 3.62          | 5.15          | 6.14          | 7.14          | 8.13          | 9.69          | 11.24         | 12.8          | 14.06         | 15.31         | 16.56         | 20.29         | 24.02         | 27.75         | 23.99         | 18.44         | 13.79         |               |
| 80.5,43         | 4.54          | 3.65          | 2.76          | 2.14          | 1.52          | 0.91          | 1.35          | 1.78          | 2.22          | 1.71          | 1.79          | 1.3           | 2.41          | 2.53          | 2.64          | 1.54          | 0.44          | 0.62          | 2.1           | 3.54          | 4.98          | 6.07          | 7.17          | 8.26          | 9.76          | 11.27         | 12.72         | 14.1          | 15.43         | 16.76         | 20.78         | 24.5          | 28.82         | 23.81         | 18.5          | 13.79         |               |
| 85.5,43         | 4.64          | 3.85          | 3.06          | 2.42          | 1.79          | 1.15          | 1.52          | 1.89          | 2.26          | 1.69          | 1.87          | 1.43          | 2.51          | 2.59          | 2.67          | 1.53          | 0.38          | 0.76          | 2.11          | 3.46          | 4.8           | 6             | 7.2           | 8.39          | 9.8           | 11.2          | 12.61         | 14.06         | 15.5          | 16.95         | 20.65         | 24.35         | 28.04         | 23.29         | 18.54         | 13.79         |               |
| 90.5,43         | 4.74          | 4.05          | 3.36          | 2.7           | 2.05          | 1.39          | 1.65          | 1.91          | 2.17          | 1.59          | 1.98          | 1.55          | 2.6           | 2.65          | 2.71          | 1.52          | 0.33          | 0.86          | 2.12          | 3.37          | 4.63          | 5.93          | 7.23          | 8.53          | 9.83          | 11.14         | 12.44         | 14.01         | 15.58         | 17.2          | 20.52         | 23.9          | 27.27         | 22.78         | 18.28         | 13.79         |               |
| 95.5,43         | 4.75          | 4.06          | 3.37          | 2.79          | 2.21          | 1.63          | 1.78          | 1.91          | 2.08          | 1.49          | 1.99          | 1.68          | 2.7           | 2.72          | 2.75          | 1.51          | 0.28          | 0.96          | 2.13          | 3.3           | 4.47          | 5.87          | 7.26          | 8.66          | 9.87          | 11.07         | 12.28         | 13.97         | 15.65         | 17.14         | 20.39         | 23.45         | 26.5          | 22.26         | 18.03         | 13.79         |               |
| 100.5,43        | 4.74          | 4.04          | 3.34          | 2.85          | 2.36          | 1.87          | 1.91          | 1.95          | 2.08          | 1.49          | 2             | 1.8           | 2.81          | 2.81          | 2.81          | 1.51          | 0.28          | 1.05          | 2.15          | 3.24          | 4.47          | 5.87          | 7.26          | 8.66          | 9.87          | 11.07         | 12.28         | 13.97         | 15.65         | 17.14         | 20.39         | 23.45         | 26.5          | 22.26         | 18.03         | 13.79         |               |
| 105.5,43        | 4.73          | 4.02          | 3.32          | 2.92          | 2.51          | 2.11          | 2.04          | 1.97          | 1.9           | 1.29          | 1.32          | 1.93          | 2.91          | 2.9           | 2.88          | 1.46          | 0.26          | 1.01          | 2.01          | 3.11          | 4.22          | 5.79          | 7.18          | 8.62          | 9.93          | 10.94         | 11.95         | 13.88         | 15.8          | 17.73         | 20.14         | 22.55         | 24.95         | 21.3          | 17.51         | 13.79         |               |
| 110.5,43        | 4.72          | 4.01          | 3.29          | 2.98          | 2.67          | 2.35          | 2.17          | 1.99          | 1.81          | 1.24          | 1.32          | 1.89          | 2.91          | 2.93          | 2.95          | 1.72          | 0.5           | 0.73          | 1.85          | 2.97          | 4.09          | 5.75          | 7.4           | 9.06          | 9.97          | 10.88         | 11.79         | 13.83         | 15.88         | 17.92         | 20.01         | 22.09         | 24.18         | 27.22         | 17.25         | 13.79         |               |
| 115.5,43        | 4.71          | 3.99          | 3.27          | 3.01          | 2.74          | 2.48          | 2.23          | 1.98          | 1.72          | 1.21          | 1.31          | 1.82          | 2.89          | 2.95          | 3.02          | 1.83          | 0.64          | 0.55          | 1.69          | 2.82          | 3.96          | 5.7           | 7.45          | 9.19          | 10            | 10.81         | 11.62         | 13.79         | 15.91         | 18.12         | 19.88         | 21.64         | 23.41         | 26.2          | 17            | 13.79         |               |
| 120.5,43        | 4.7           | 3.97          | 3.25          | 2.92          | 2.6           | 2.27          | 2.06          | 1.85          | 1.64          | 1.17          | 1.29          | 1.76          | 2.87          | 2.98          | 3.09          | 1.93          | 0.78          | 0.37          | 1.52          | 2.68          | 3.84          | 5.6           | 7.37          | 9.14          | 9.92          | 10.69         | 11.46         | 13.74         | 16.03         | 18.31         | 19.75         | 21.19         | 22.64         | 24.09         | 16.74         | 13.79         |               |
| 125.5,43        | 4.7           | 3.96          | 3.22          | 2.84          | 2.45          | 2.16          | 1.89          | 1.72          | 1.55          | 1.14          | 1.28          | 1.69          | 2.84          | 2.9           | 3.05          | 2.04          | 0.93          | 0.19          | 1.36          | 2.53          | 3.71          | 5.49          | 7.27          | 9.06          | 9.8           | 10.55         | 11.3          | 13.61         | 15.93         | 18.24         | 19.85         | 21.06         | 22.46         | 23.91         | 16.48         | 13.79         |               |
| 130.5,43        | 4.69          | 3.94          | 3.2           | 2.75          | 2.3           | 1.86          | 1.72          | 1.59          | 1.46          | 1.11          | 1.26          | 1.62          | 2.82          | 2.92          | 3.02          | 1.15          | 0.97          | 0.01          | 1.2           | 3.58          | 5.38          | 7.17          | 8.97          | 9.69          | 10.41         | 11.13         | 13.46         | 15.79         | 18.11         | 19.1          | 20.1          | 21.09         | 22.66         | 16.27         | 13.79         |               |               |
| 135.5,43        | 4.68          | 3.93          | 3.17          | 2.66          | 2.16          | 1.65          | 1.56          | 1.46          | 1.37          | 1.06          | 1.24          | 1.55          | 2.8           | 3.04          | 3.29          | 2.25          | 1.21          | 0.17          | 1.04          | 2.24          | 3.45          | 5.26          | 7.07          | 8.88          | 9.58          | 10.27         | 10.97         | 13.31         | 15.64         | 17.98         | 18.76         | 19.54         | 20.32         | 18.14         | 15.97         | 13.79         |               |
| 140.5,43        | 4.67          | 3.91          | 3.15          | 2.58          | 2.01          | 1.44          | 1.39          | 1.33          | 1.28          | 1.03          | 1.23          | 1.48          | 2.77          | 3.07          | 3.36          | 2.36          | 1.35          | 0.35          | 0.87          | 2.1           | 3.33          | 5.15          | 6.97          | 8.79          | 9.46          | 10.13         | 10.81         | 13.15         | 15.5          | 17.85         | 18.42         | 18.98         | 19.55         | 17.63         | 15.71         | 13.79         |               |
| 145.5,43        | 4.66          | 3.89          | 3.12          | 2.49          | 1.86          | 1.23          | 1.22          | 1.21          | 1.19          | 1.01          | 1.21          | 1.41          | 2.75          | 3.09          | 3.43          | 2.46          | 1.5           | 0.53          | 0.71          | 1.96          | 3.2           | 5.03          | 6.87          | 8.71          | 9.35          | 10            | 10.64         | 13            | 15.36         | 17.73         | 18.07         | 18.42         | 18.77         | 17.11         | 15.45         | 13.79         |               |
| 150.5,43        | 4.66          | 3.88          | 3.1           | 2.41          | 1.71          | 1.02          | 1.05          | 1.08          | 1.1           | 1.05          | 1.2           | 1.35          | 2.73          | 3.11          | 3.49          | 2.57          | 1.64          | 0.71          | 1.55          | 1.81          | 3.07          | 4.92          | 6.77          | 8.62          | 9.24          | 9.86          | 10.48         | 12.85         | 15.22         | 17.6          | 17.73         | 17.87         | 16            | 16.6          | 15.19         | 13.79         |               |
| 155.5,43        | 4.65          | 3.86          | 3.07          | 2.32          | 1.57          | 0.81          | 0.91          | 1.09          | 1.03          | 1.06          | 1.28          | 1.71          | 2.87          | 3.13          | 3.56          | 2.67          | 1.58          | 0.89          | 0.39          | 1.67          | 2.94          | 4.81          | 6.67          | 8.53          | 9.12          | 9.71          | 10.3          | 12.69         | 15.08         | 17.47         | 17.45         | 17.43         | 17.41         | 16.2          | 15.1          | 13.79         |               |
| 160.5,43        | 4.64          | 3.84          | 3.05          | 2.33          | 1.42          | 0.61          | 0.79          | 0.97          | 1.15          | 1.03          | 1.09          | 1.21          | 2.68          | 3.16          | 3.63          | 2.78          | 1.92          | 0.07          | 0.23          | 1.52          | 2.82          | 4.69          | 6.57          | 8.44          | 9             | 9.57          | 10.13         | 12.53         | 14.93         | 17.4          | 17.24         | 17.13         | 17.03         | 15.95         | 14.87         | 13.79         |               |
| 165.5,43        | 4.63          | 3.83          | 3.02          | 2.15          | 1.27          | 0.4           | 0.67          | 0.94          | 1.21          | 1.09          | 1.02          | 1.14          | 2.65          | 3.16          | 3.67          | 2.86          | 2.05          | 1.25          | 0.06          | 1.38          | 2.69          | 4.58          | 6.47          | 8.36          | 8.89          | 9.42          | 9.95          | 12.37         | 14.7          |               |               |               |               |               |               |               |               |





# Raw Data (ANT1@6G 7200MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |      |      |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|------|------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |      |      |
| 0.5             | 4.21          | 4.33          | 4.24          | 4.59          | 4.77          | 4.15          | 4.36          | 4.11          | 4.13          | 4.47          | 4.66          | 4.46          | 4.27          | 4.36          | 4.18          | 4.31          | 4.48          | 4.53          | 4.04          | 4.22          | 4.53          | 4.65          | 4.53          | 4.31          | 4.48          | 4.53          | 4.04          | 4.22          | 4.53          | 4.65          | 4.53          | 4.31          | 4.48          | 4.53          | 4.04          | 4.22          | 4.53          | 4.65 |      |
| 5.5             | 4.41          | 4.31          | 4.22          | 2.63          | 1.03          | 0.56          | 0.15          | 0.26          | 0.66          | 0.89          | 1.11          | 1.33          | 0.34          | 0.65          | 1.64          | 2.58          | 2.53          | 1.47          | 0.24          | 1.95          | 3.67          | 4.14          | 4.61          | 5.08          | 9.6           | 14.12         | 18.64         | 16.73         | 14.82         | 12.92         | 11.82         | 10.73         | 9.63          | 8.82          | 8             | 7.19          |               |      |      |
| 10.5            | 4.9           | 5.3           | 5.7           | 3.85          | 2             | 0.15          | 0.23          | 0.3           | 0.37          | 0.62          | 0.86          | 1.11          | 0.2           | 0.71          | 1.62          | 1.54          | 1.47          | 0.24          | 1.88          | 3.52          | 3.98          | 4.43          | 4.88          | 8.8           | 12.72         | 16.64         | 15.1          | 13.57         | 12.03         | 11.24         | 10.44         | 9.65          | 8.83          | 8.01          | 7.19          |               |               |      |      |
| 15.5            | 5.4           | 6.29          | 7.18          | 5.09          | 2.99          | 0.9           | 0.63          | 0.35          | 0.08          | 0.35          | 0.62          | 0.89          | 0.06          | 0.77          | 1.89          | 1.46          | 1.32          | 1.18          | 0.34          | 1.86          | 3.38          | 3.82          | 4.25          | 4.68          | 8             | 11.31         | 14.63         | 13.47         | 12.31         | 11.15         | 10.65         | 10.16         | 9.67          | 8.84          | 8.02          | 7.19          |               |      |      |
| 20.5            | 5.89          | 7.28          | 8.67          | 6.32          | 3.98          | 1.64          | 1.02          | 0.41          | 0.21          | 0.08          | 0.38          | 0.67          | 0.08          | 0.82          | 1.87          | 1.17          | 1.16          | 0.96          | 0.44          | 1.84          | 3.24          | 3.65          | 4.07          | 4.48          | 7.2           | 9.91          | 12.62         | 11.83         | 11.05         | 10.26         | 10.07         | 9.88          | 9.68          | 8.85          | 8.02          | 7.19          |               |      |      |
| 25.5            | 6.05          | 7.6           | 9.15          | 6.89          | 4.64          | 2.39          | 1.5           | 0.62          | 0.26          | 0.02          | 0.21          | 0.45          | 0.18          | 0.81          | 2.44          | 1.21          | 0.97          | 0.74          | 0.55          | 1.84          | 3.13          | 3.51          | 3.9           | 4.28          | 6.72          | 9.25          | 11.73         | 10.95         | 10.16         | 9.38          | 9.41          | 9.48          | 9.52          | 8.75          | 7.97          | 7.19          |               |      |      |
| 30.5            | 5.95          | 7.4           | 8.84          | 6.94          | 5.03          | 3.13          | 2             | 0.86          | 0.27          | 0.11          | 0.06          | 0.23          | 0.25          | 0.74          | 2.23          | 0.99          | 0.75          | 0.52          | 0.66          | 1.84          | 3.02          | 3.38          | 3.73          | 4.08          | 6.42          | 8.76          | 11.1          | 10.23         | 9.36          | 8.49          | 8.75          | 9             | 9.26          | 8.57          | 7.88          | 7.19          |               |      |      |
| 35.5            | 5.85          | 7.19          | 8.54          | 6.98          | 5.43          | 3.87          | 2.49          | 1.1           | 0.39          | 0.19          | 0.09          | 0.01          | 0.33          | 0.67          | 1.02          | 0.78          | 0.54          | 0.3           | 0.78          | 1.85          | 2.92          | 3.24          | 3.56          | 3.89          | 6.08          | 8.28          | 10.47         | 9.84          | 9.22          | 8.59          | 8.72          | 8.86          | 8.99          | 8.19          | 7.39          | 7.19          |               |      |      |
| 40.5            | 5.75          | 6.99          | 8.24          | 7.03          | 5.82          | 4.62          | 3.98          | 1.34          | 0.3           | 0.27          | 0.24          | 0.2           | 0.41          | 0.61          | 0.81          | 0.81          | 0.56          | 0.32          | 0.08          | 0.89          | 1.85          | 2.82          | 3.11          | 3.4           | 3.69          | 5.74          | 7.79          | 9.84          | 9.53          | 9.23          | 8.92          | 8.85          | 8.79          | 8.72          | 8.21          | 7.7           | 7.19          |      |      |
| 45.5            | 5.65          | 6.79          | 7.93          | 6.99          | 6.06          | 5.12          | 3.31          | 1.5           | 0.31          | 0.15          | 0.39          | 0.42          | 0.48          | 0.54          | 0.59          | 0.35          | 0.1           | 0.15          | 0             | 1.86          | 2.72          | 2.97          | 3.23          | 3.49          | 5.4           | 7.31          | 9.21          | 9.22          | 9.24          | 9.25          | 8.98          | 8.72          | 8.45          | 8.03          | 7.61          | 7.19          |               |      |      |
| 50.5            | 5.54          | 6.59          | 7.63          | 6.64          | 5.65          | 4.66          | 1             | 1.34          | 0.32          | 0.41          | 0.49          | 0.57          | 0.51          | 0.44          | 0.38          | 0.21          | 0.04          | 0.14          | 0.96          | 1.79          | 2.61          | 2.86          | 3.12          | 3.37          | 5.11          | 6.85          | 8.99          | 8.92          | 9.24          | 9.25          | 9.11          | 8.65          | 8.18          | 7.85          | 7.52          | 7.19          |               |      |      |
| 55.5            | 5.44          | 6.38          | 7.32          | 6.28          | 5.24          | 4.2           | 2.69          | 1.17          | 0.34          | 0.45          | 0.57          | 0.69          | 0.51          | 0.34          | 0.17          | 0.08          | 0             | 0.09          | 0.9           | 1.7           | 2.51          | 2.79          | 3.07          | 3.34          | 4.88          | 6.42          | 7.96          | 8.61          | 9.25          | 9.9           | 9.24          | 8.58          | 7.92          | 7.67          | 7.43          | 7.19          |               |      |      |
| 60.5            | 5.34          | 6.18          | 7.02          | 5.92          | 4.83          | 3.74          | 2.37          | 1.01          | 0.35          | 0.5           | 0.65          | 0.8           | 0.52          | 0.24          | 0.04          | 0.04          | 0.04          | 0.83          | 1.62          | 2.41          | 2.71          | 3.02          | 3.32          | 3.46          | 5.99          | 7.33          | 8.3           | 9.26          | 10.23         | 9.37          | 8.51          | 7.65          | 7.5           | 7.34          | 7.19          |               |               |      |      |
| 65.5            | 5.24          | 5.98          | 6.71          | 5.57          | 4.42          | 3.27          | 2.06          | 0.85          | 0.36          | 0.55          | 0.73          | 0.92          | 0.53          | 0.14          | 0.25          | 0.17          | 0.08          | 0.01          | 0.76          | 1.53          | 2.3           | 2.64          | 2.97          | 3.3           | 4.43          | 5.57          | 6.7           | 7.99          | 9.27          | 10.56         | 9.5           | 8.44          | 7.38          | 7.32          | 7.25          | 7.19          |               |      |      |
| 70.5            | 5.14          | 5.77          | 6.41          | 5.21          | 4.01          | 2.81          | 1.75          | 0.69          | 0.38          | 0.6           | 0.82          | 0.94          | 0.54          | 0.03          | 0.47          | 0.29          | 0.12          | 0.05          | 0.7           | 1.45          | 2.2           | 2.56          | 2.92          | 3.28          | 4.21          | 5.14          | 6.07          | 7.68          | 9.28          | 10.89         | 9.63          | 8.37          | 7.11          | 7.14          | 7.16          | 7.19          |               |      |      |
| 75.5            | 5.04          | 5.57          | 6.11          | 4.85          | 3.6           | 2.35          | 1.44          | 0.52          | 0.39          | 0.64          | 0.9           | 1.15          | 0.54          | 0.07          | 0.68          | 0.42          | 0.16          | 0.1           | 0.63          | 1.56          | 2.1           | 2.48          | 2.87          | 3.25          | 3.98          | 4.71          | 5.44          | 6.77          | 7.97          | 9.29          | 11.22         | 9.76          | 8.3           | 6.84          | 6.96          | 7.07          | 7.19          |      |      |
| 80.5            | 4.94          | 5.38          | 5.82          | 4.51          | 3.2           | 1.89          | 1.12          | 0.36          | 0.41          | 0.7           | 0.98          | 1.27          | 0.55          | 0.17          | 0.89          | 0.54          | 0.2           | 0.15          | 0.57          | 1.3           | 2.02          | 2.42          | 2.83          | 3.23          | 3.76          | 4.29          | 4.81          | 5.66          | 6.7           | 7.97          | 9.3           | 11.34         | 9.89          | 8.23          | 6.58          | 6.78          | 6.98          | 7.19 |      |
| 85.5            | 4.88          | 5.25          | 5.63          | 4.23          | 2.83          | 1.43          | 0.81          | 0.19          | 0.43          | 0.75          | 1.07          | 0.39          | 0.63          | 0.12          | 0.88          | 0.52          | 0.16          | 0.2           | 0.52          | 1.25          | 1.97          | 2.38          | 2.79          | 3.21          | 3.57          | 3.94          | 4.31          | 4.63          | 5.35          | 6.11          | 7.27          | 8.31          | 9.35          | 11.87         | 10.29         | 8.71          | 7.13          | 7.17 | 7.19 |
| 90.5            | 4.82          | 5.13          | 5.44          | 3.95          | 2.46          | 0.96          | 0.49          | 0.02          | 0.45          | 0.8           | 1.16          | 0.51          | 0.72          | 0.06          | 0.85          | 0.48          | 0.12          | 0.25          | 0.47          | 1.2           | 1.92          | 2.34          | 2.76          | 3.18          | 3.62          | 4.06          | 4.5           | 5.07          | 6.63          | 12.2          | 10.69         | 9.19          | 7.68          | 7.52          | 7.35          | 7.19          |               |      |      |
| 95.5            | 4.75          | 5             | 5.25          | 3.67          | 2.08          | 0.5           | 0.18          | 0.15          | 0.48          | 0.86          | 1.24          | 1.62          | 0.81          | 0             | 0.82          | 0.45          | 0.08          | 0.29          | 0.42          | 1.14          | 1.86          | 2.3           | 2.73          | 3.16          | 3.67          | 4.19          | 4.7           | 7.01          | 9.92          | 12.53         | 11.1          | 9.67          | 8.23          | 7.89          | 7.54          | 7.19          |               |      |      |
| 100.5           | 4.69          | 4.87          | 5.06          | 3.59          | 1.71          | 0.04          | 0.14          | 0.32          | 0.7           | 0.91          | 1.33          | 1.74          | 0.9           | 0.66          | 0.79          | 0.41          | 0.06          | 0.34          | 0.38          | 0.9           | 1.81          | 2.35          | 2.7           | 3.14          | 3.72          | 4.31          | 4.9           | 6.93          | 12.44         | 11.2          | 10.01         | 8.79          | 7.55          | 7.42          | 7.19          |               |               |      |      |
| 105.5           | 4.62          | 4.75          | 4.87          | 3.11          | 1.34          | 0.42          | 0.46          | 0.49          | 0.52          | 0.97          | 1.41          | 1.86          | 0.99          | 1.1           | 0.76          | 0.37          | 0.21          | 0.39          | 0.33          | 1.04          | 1.76          | 2.21          | 2.66          | 3.12          | 3.78          | 4.43          | 5.09          | 7.37          | 9.65          | 11.93         | 11.07         | 10.2          | 9.34          | 8.63          | 7.91          | 7.19          |               |      |      |
| 110.5           | 4.56          | 4.62          | 4.68          | 2.82          | 0.97          | 0.88          | 0.77          | 0.66          | 0.55          | 1.02          | 1.5           | 1.98          | 1.07          | 1.17          | 0.73          | 0.34          | 0.05          | 0.44          | 0.28          | 0.99          | 1.71          | 2.17          | 2.63          | 3.09          | 3.83          | 4.56          | 5.29          | 7.33          | 9.37          | 11.41         | 10.91         | 10.4          | 9.89          | 8.99          | 8.09          | 7.19          |               |      |      |
| 115.5           | 4.5           | 4.49          | 4.49          | 2.54          | 0.6           | 0.35          | 0.09          | 0.83          | 0.57          | 1.08          | 1.59          | 2.09          | 1.16          | 1.23          | 0.7           | 0.3           | 0.09          | 0.49          | 0.23          | 0.94          | 1.66          | 2.13          | 2.6           | 3.07          | 3.88          | 4.68          | 5.49          | 7.29          | 9.1           | 10.9          | 10.75         | 10.6          | 10.44         | 9.36          | 8.27          | 7.19          |               |      |      |
| 120.5           | 4.43          | 4.37          | 4.3           | 2.41          | 0.52          | 0.37          | 1.11          | 0.85          | 0.59          | 1.14          | 1.69          | 2.24          | 1.27          | 1.33          | 0.67          | 0.27          | 0.12          | 0.52          | 0.19          | 0.9           | 1.6           | 2.09          | 2.57          | 3.06          | 3.93          | 4.81          | 5.68          | 7.25          | 8.82          | 10.39         | 10.59         | 10.79         | 11            | 9.73          | 8.46          | 7.19          |               |      |      |
| 125.5           | 4.37          | 4.24          | 4.11          | 2.33          | 0.58          | 0.21          | 1.02          | 0.82          | 0.62          | 1.23          | 1.84          | 2.46          | 1.43          | 1.39          | 0.64          | 0.36          | 0.08          | 0.2           | 0.39          | 1.52          | 1.92          | 2.39          | 2.87          | 3.44          | 4.31          | 5.21          | 5.88          | 7.21          | 8.54          | 9.87          | 10.63         | 10.99         | 11.55         | 10.3          | 8.64          | 7.19          |               |      |      |
| 130.5           | 4.31          | 4.11          | 3.92          | 2.25          | 0.59          | 0.07          | 0.93          | 0.78          | 0.64          | 1.32          | 1.93          | 2.68          | 1.49          | 1.61          | 0.45          | 0.29          | 0.12          | 0.58          | 1.04          | 1.5           | 2.36          | 2.72          | 3.28          | 4.08          | 5.14          | 6.08          | 7.17          | 8.26          | 9.36          | 10.27         | 11.19         | 12.1          | 10.46         | 8.53          | 7.19          |               |               |      |      |
| 135.5           | 4.24          | 3.99          | 3.73          | 2.18          | 0.63          | 0.92          | 0.83          | 0.75          | 0.66          | 1.41          | 2.16          | 2.9           | 1.74          | 2.58          | 0.58          | 0.53          | 0.49          | 0.44          | 0.78          | 1.11          | 1.45          | 2.49          | 3.34          | 4.59          | 5.15          | 5.71          | 6.27          | 7.31          | 7.99          | 8.84          | 10.11         | 11.38         | 12.65         | 10.83         | 9.01          | 7.19          |               |      |      |
| 140.5           | 4.18          | 3.86          | 3.54          | 2.1           | 0.67          | 0.77          | 0.74          | 0.71          | 0.69          | 1.5           | 2.31          | 3.12          | 1.9           | 2.67          | 0.55          | 0.62          | 0.69          | 0.76          | 0.97          | 1.19          | 1.4           | 2.63          | 3.86          | 5.09          | 5.55          | 6.01          | 6.47          | 7.09          | 7.71          | 8.33          | 9.95          | 11.58         | 13.21         | 11.2          | 9.19          | 7.19          |               |      |      |
| 145.5           | 4.12          | 3.73          | 3.35          | 2.03          | 0.7           | 0.62          | 0.65          | 0.68          | 0.71          | 1.59          | 2.47          | 3.34          | 2.06          | 2.77          | 0.52          | 0.71          | 0.9           | 1.08          | 1.17          | 1.16          | 1.34          | 2.76          | 4.18          | 5.6           | 5.96          | 6.31          | 6.67          | 7.05          | 7.43          | 7.81          | 9.9           | 11.78         | 13.76         | 11.57         | 9.38          | 7.19          |               |      |      |
| 150.5           | 4.06          | 3.65          | 3.19          | 1.97          | 0.73          | 1.47          | 1.36          | 0.66          | 0.76          | 1.7           | 2.63          | 3.56          | 2.21          | 2.86          | 0.49          | 0.79          | 1.1           | 1.4           | 1.37          | 1.33          | 1.29          | 2.39          | 4.51          | 6.11          | 6.36          | 6.61          | 6.86          | 7.01          | 7.15          | 7.3           | 7.64          | 11.97         | 14.31         | 11.94         | 9.56          | 7.19          |               |      |      |
| 155.5           | 4.1           | 3.69          | 3.29          | 2.09          | 0.89          | 0.32          | 0.52          | 0.73          | 0.93          | 1.88          | 2.83          | 3.79          | 2.43          | 3.07          | 0.29          | 0.74          | 1.24          | 1.72          | 1.69          | 1.65          | 1.61          | 3.28          | 4.35          | 6.62          | 6.77          | 6.91          | 7.06          | 6.97          | 6.88          | 6.78          | 9.35          | 11.91         | 14.48         | 12.05         | 9.62          | 7.19          |               |      |      |
| 160.5           | 4.13          | 3.76          | 3.38          | 2.3           | 1.02          | 0.16          | 0.48          | 0.79          | 1.1           | 2.07          | 3.04          | 4.01          | 2.67          | 3.4           | 0             | 0.68          | 1.36          | 2.04          | 2.02          | 2             | 1.97          | 3.69          | 5.41          | 7.13          | 7.17          | 7.21          | 7.26          | 6.93          | 6.6           | 6.27          | 8.87          | 11.48         | 14.09         | 11.99         | 9.49          | 7.19          |               |      |      |
| 165.5           | 4.16          | 3.82          | 3.48          | 2.32          | 1.15          | 0.01          | 0.43          | 0.85          | 1.27          | 2.26          | 3.24          | 4.23          | 2.92          | 3.61          | 0.3           | 0.59          | 1.48          | 2.36          | 2.35          | 2.34          | 2.33          | 4.1           | 5.87          | 7.64          | 7.61          | 7.59          | 7.56          | 6.96          | 6.36          | 5.75          | 8.4           | 11.05         | 13.69         | 11.53         | 9.36          | 7.19          |               |      |      |
| 170.5           | 4.2           | 3.89          | 3.58          | 2.43          | 1.29          | 0.14          | 0.39          | 1.02          | 1.44          | 2.44          | 3.45          | 4.45          | 3.16          | 3.88          | 0.59          | 0.5           | 1.59          | 2.68          | 2.69          | 3.69          | 2.7           | 4.51          | 6.33          | 8.15          | 8.14          | 8.12          | 8.11          |               |               |               |               |               |               |               |               |               |               |      |      |

# Raw Data (ANT2@6G 4900MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0.4,14          | 6.37          | 6.6           | 10.83         | 17.28         | 11.49         | 6.69          | 6.12          | 6.02          | 1.19          | 4.60          | 1.71          | 1.3           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           | 1.1           |               |
| 5.4,14          | 6.65          | 9.16          | 11.67         | 8.25          | 4.82          | 1.4           | 2.56          | 2.29          | 1.14          | 1.25          | 1.37          | 1.48          | 1.17          | 0.86          | 2.54          | 2.08          | 0.37          | 0.83          | 1.91          | 2.99          | 4.07          | 4.53          | 5             | 5.46          | 6.97          | 8.49          | 10            | 9.71          | 9.41          | 9.12          | 9.36          | 9.59          | 9.83          | 9.86          | 9.89          | 9.93          |               |
| 10.4,14         | 6.93          | 9.71          | 12.5          | 8.85          | 5.2           | 1.55          | 0.58          | 0.39          | 1.36          | 1.34          | 1.33          | 1.31          | 1.06          | 0.81          | 3.56          | 3.12          | 0.32          | 0.76          | 1.85          | 2.94          | 4.03          | 4.43          | 4.84          | 5.24          | 6.54          | 7.84          | 9.13          | 9.17          | 9.2           | 9.23          | 9.54          | 9.85          | 10.16         | 10.09         | 10.01         | 9.93          |               |
| 15.4,14         | 7.21          | 10.27         | 13.34         | 9.46          | 5.58          | 1.7           | 0.61          | 0.49          | 1.58          | 1.43          | 1.28          | 1.13          | 0.95          | 1.76          | 3.58          | 3.16          | 0.26          | 0.69          | 1.79          | 3.89          | 3.99          | 4.33          | 4.68          | 5.03          | 6.11          | 7.19          | 8.27          | 8.56          | 8.85          | 9.14          | 9.59          | 10.05         | 10.5          | 10.31         | 10.12         | 9.93          |               |
| 20.4,14         | 7.48          | 10.83         | 14.17         | 10.47         | 5.96          | 1.85          | 0.63          | 0.58          | 1.8           | 1.52          | 1.24          | 1.06          | 0.84          | 1.72          | 3.6           | 3.2           | 0.21          | 0.61          | 1.72          | 3.85          | 3.95          | 4.25          | 4.62          | 4.81          | 5.67          | 6.54          | 7.4           | 7.95          | 8.5           | 9.05          | 9.64          | 10.24         | 10.54         | 10.24         | 10.03         | 9.93          |               |
| 25.4,14         | 7.49          | 10.83         | 14.2          | 10.13         | 6.07          | 2             | 0.76          | 0.48          | 1.73          | 1.41          | 1.1           | 0.78          | 0.65          | 1.52          | 3.39          | 2.08          | 0.23          | 0.54          | 1.68          | 2.83          | 3.07          | 4.18          | 4.39          | 4.6           | 5.43          | 6.25          | 7.08          | 7.71          | 8.33          | 8.96          | 9.55          | 10.15         | 10.75         | 10.48         | 10.2          | 9.93          |               |
| 30.4,14         | 7.36          | 10.59         | 13.81         | 9.92          | 6.03          | 2.15          | 0.95          | 0.25          | 1.44          | 1.16          | 0.89          | 0.61          | 0.44          | 2.28          | 3.11          | 0.08          | 0.27          | 0.47          | 1.66          | 2.85          | 4.04          | 4.16          | 4.27          | 4.38          | 5.26          | 6.14          | 7.02          | 7.63          | 8.25          | 8.86          | 9.43          | 9.99          | 10.56         | 10.35         | 10.14         | 9.93          |               |
| 35.4,14         | 7.23          | 10.32         | 13.42         | 9.71          | 6             | 2.3           | 1.14          | 0.01          | 1.16          | 0.92          | 0.67          | 0.43          | 0.23          | 0.03          | 0.17          | 0.24          | 0.32          | 0.39          | 1.63          | 2.88          | 4.12          | 4.13          | 4.15          | 4.17          | 5.1           | 6.02          | 6.95          | 7.56          | 8.17          | 8.77          | 9.31          | 9.84          | 10.37         | 10.22         | 10.08         | 9.93          |               |
| 40.4,14         | 7.1           | 10.06         | 13.03         | 9.5           | 5.97          | 2.45          | 1.34          | 0.23          | 1.88          | 1.67          | 0.46          | 0.26          | 0.02          | 0.21          | 0.45          | 0.45          | 0.46          | 0.46          | 1.7           | 3.95          | 4.19          | 4.15          | 4.12          | 4.08          | 5.02          | 5.95          | 6.89          | 7.49          | 8.08          | 8.68          | 9.18          | 9.68          | 10.18         | 10.1          | 10.01         | 9.93          |               |
| 45.4,14         | 6.97          | 9.8           | 12.63         | 9.29          | 5.94          | 2.6           | 1.35          | 0.47          | 1.6           | 1.42          | 0.25          | 0.08          | 0.19          | 0.46          | 0.73          | 0.75          | 0.77          | 0.79          | 1.95          | 3.11          | 4.26          | 4.31          | 4.35          | 4.39          | 5.21          | 6.02          | 6.85          | 7.41          | 8             | 8.59          | 9.06          | 9.53          | 9.99          | 9.97          | 9.95          | 9.93          |               |
| 50.4,14         | 6.84          | 9.54          | 12.24         | 9.05          | 5.85          | 2.66          | 1.67          | 0.68          | 1.31          | 1.18          | 0.24          | 0.09          | 0.4           | 0.7           | 1.01          | 1.05          | 1.09          | 1.13          | 2.2           | 3.27          | 4.34          | 4.46          | 4.59          | 4.71          | 5.4           | 6.08          | 6.76          | 7.31          | 8.26          | 9.01          | 9.28          | 9.54          | 9.81          | 9.85          | 9.89          | 9.93          |               |
| 55.4,14         | 6.71          | 9.28          | 11.85         | 8.79          | 5.74          | 2.68          | 1.78          | 0.87          | 1.03          | 1.05          | 0.14          | 0.23          | 0.58          | 0.94          | 1.29          | 1.35          | 1.4           | 1.46          | 2.44          | 3.43          | 4.41          | 4.62          | 4.82          | 5.03          | 5.99          | 6.14          | 6.7           | 7.64          | 8.59          | 9.54          | 9.57          | 9.59          | 9.62          | 9.72          | 9.83          | 9.93          |               |
| 60.4,14         | 6.58          | 9.02          | 11.46         | 8.54          | 5.62          | 2.71          | 1.89          | 1.07          | 1.07          | 1.25          | 0.39          | 0.32          | 0.36          | 0.76          | 1.17          | 1.57          | 1.65          | 1.72          | 1.8           | 2.69          | 3.59          | 4.49          | 4.77          | 5.06          | 5.35          | 5.78          | 6.2           | 6.63          | 7.78          | 8.92          | 10.07         | 9.86          | 9.64          | 9.43          | 9.6           | 9.76          | 9.93          |
| 65.4,14         | 6.45          | 8.76          | 11.07         | 8.29          | 5.51          | 2.73          | 2             | 1.26          | 0.53          | 0.52          | 0.51          | 0.49          | 0.95          | 1.4           | 1.85          | 1.94          | 2.04          | 2.13          | 2.94          | 3.75          | 4.56          | 4.93          | 5.3           | 5.66          | 5.97          | 6.27          | 6.57          | 7.91          | 9.25          | 10.59         | 10.14         | 9.69          | 9.24          | 9.47          | 9.7           | 9.93          |               |
| 70.4,14         | 6.32          | 8.5           | 10.68         | 8.03          | 5.39          | 2.75          | 2.11          | 1.46          | 0.82          | 0.75          | 0.69          | 0.63          | 1.13          | 1.63          | 2.13          | 2.24          | 2.35          | 2.46          | 3.19          | 3.91          | 4.63          | 5.08          | 5.53          | 5.98          | 6.16          | 6.33          | 6.5           | 8.04          | 9.58          | 11.12         | 10.43         | 9.74          | 9.05          | 9.35          | 9.64          | 9.93          |               |
| 75.4,14         | 6.19          | 8.24          | 10.28         | 7.78          | 5.28          | 2.77          | 2.21          | 1.66          | 1.1           | 0.99          | 0.87          | 0.76          | 1.31          | 1.86          | 2.41          | 2.54          | 2.67          | 2.8           | 3.43          | 4.07          | 4.71          | 5.24          | 5.72          | 6.3           | 6.35          | 6.39          | 6.44          | 8.18          | 9.91          | 11.65         | 10.72         | 9.79          | 8.87          | 9.22          | 9.57          | 9.93          |               |
| 80.4,14         | 6.1           | 8.06          | 10.02         | 7.61          | 5.2           | 2.8           | 2.3           | 1.81          | 1.32          | 1.18          | 1.04          | 0.89          | 1.45          | 2             | 2.55          | 2.75          | 2.94          | 3.13          | 3.68          | 4.23          | 4.78          | 5.39          | 6             | 6.62          | 6.54          | 6.47          | 6.4           | 8.33          | 10.25         | 12.18         | 11.11         | 10.03         | 8.96          | 9.29          | 9.61          | 9.93          |               |
| 85.4,14         | 6.16          | 8.19          | 10.21         | 7.75          | 5.28          | 2.82          | 2.32          | 1.82          | 1.32          | 1.22          | 1.12          | 1.03          | 1.45          | 1.86          | 2.28          | 2.68          | 3.07          | 3.47          | 3.94          | 4.42          | 4.9           | 5.58          | 6.26          | 6.93          | 6.78          | 6.63          | 6.47          | 8.55          | 10.63         | 12.7          | 11.56         | 10.42         | 9.28          | 9.49          | 9.71          | 9.93          |               |
| 90.4,14         | 6.23          | 8.31          | 10.4          | 7.88          | 5.36          | 2.84          | 2.33          | 1.82          | 1.31          | 1.26          | 1.21          | 1.16          | 1.44          | 1.72          | 2.02          | 2.6           | 3.2           | 3.8           | 4.21          | 4.62          | 5.02          | 5.77          | 6.51          | 7.25          | 7.02          | 6.78          | 6.55          | 8.78          | 11            | 13.23         | 12.02         | 10.8          | 9.59          | 9.7           | 9.82          | 9.93          |               |
| 95.4,14         | 6.29          | 8.44          | 10.59         | 8.01          | 5.44          | 2.86          | 2.35          | 1.83          | 1.31          | 1.3           | 1.3           | 1.3           | 1.44          | 1.79          | 1.73          | 2.53          | 3.33          | 4.13          | 4.47          | 4.81          | 5.14          | 5.95          | 6.76          | 7.57          | 7.25          | 6.94          | 6.62          | 9             | 11.38         | 13.76         | 12.47         | 11.19         | 9.91          | 9.91          | 9.92          | 9.93          |               |
| 100.4,14        | 6.35          | 8.56          | 10.78         | 8.15          | 5.52          | 2.89          | 2.36          | 1.83          | 1.31          | 1.35          | 1.39          | 1.41          | 1.44          | 1.45          | 1.66          | 2.46          | 3.46          | 4.47          | 4.73          | 5.04          | 5.27          | 6.14          | 7.01          | 7.88          | 7.49          | 7.09          | 6.7           | 9.23          | 14.76         | 14.29         | 12.93         | 11.57         | 10.22         | 9.12          | 9.03          | 9.93          |               |
| 105.4,14        | 6.41          | 8.69          | 10.97         | 8.28          | 5.6           | 2.91          | 2.37          | 1.84          | 1.3           | 1.39          | 1.48          | 1.56          | 1.44          | 1.1           | 1.18          | 2.39          | 3.4           | 4.8           | 5             | 5.19          | 5.39          | 6.33          | 7.26          | 8.2           | 7.73          | 7.25          | 6.77          | 9.45          | 12.13         | 14.81         | 13.39         | 11.96         | 10.53         | 9.33          | 9.13          | 9.93          |               |
| 110.4,14        | 6.48          | 8.82          | 11.16         | 8.41          | 5.67          | 2.93          | 2.39          | 1.84          | 1.3           | 1.43          | 1.56          | 1.7           | 1.44          | 1.17          | 0.91          | 2.32          | 3.73          | 5.14          | 5.26          | 5.39          | 6.41          | 7.31          | 8.21          | 7.76          | 7.3           | 6.85          | 6.68          | 12.51         | 15.34         | 13.84         | 12.35         | 10.85         | 9.54          | 9.24          | 9.13          | 9.93          |               |
| 115.4,14        | 6.54          | 9.04          | 11.34         | 8.55          | 5.75          | 2.95          | 2.4           | 1.85          | 1.29          | 1.47          | 1.65          | 1.83          | 1.43          | 1.04          | 0.64          | 2.2           | 3.77          | 5.33          | 5.43          | 5.53          | 6.53          | 7.48          | 8.1           | 7.71          | 7.32          | 6.92          | 9.91          | 12.89         | 15.87         | 14.3          | 12.73         | 11.16         | 10.75         | 10.34         | 9.93          |               |               |
| 120.4,14        | 6.6           | 9.07          | 11.53         | 8.68          | 5.83          | 2.98          | 2.42          | 1.85          | 1.29          | 1.52          | 1.74          | 1.96          | 1.43          | 0.9           | 0.36          | 1.92          | 3.48          | 5.04          | 5.28          | 5.52          | 5.76          | 6.5           | 7.25          | 7.99          | 7.66          | 7.33          | 7             | 9.98          | 12.96         | 15.95         | 14.46         | 12.97         | 11.48         | 10.96         | 10.44         | 9.93          |               |
| 125.4,14        | 6.67          | 9.19          | 11.72         | 8.74          | 5.76          | 2.77          | 2.28          | 1.78          | 1.29          | 1.86          | 1.44          | 1.51          | 1.04          | 0.56          | 0.09          | 1.64          | 3.2           | 4.75          | 5.12          | 5.5           | 5.88          | 6.55          | 7.21          | 7.88          | 7.61          | 7.34          | 7.07          | 10.01         | 12.95         | 15.89         | 14.53         | 13.16         | 11.79         | 11.12         | 10.55         | 9.93          |               |
| 130.4,14        | 6.73          | 9.32          | 11.91         | 8.8           | 5.68          | 2.57          | 2.14          | 1.71          | 1.28          | 1.9           | 1.15          | 1.05          | 0.64          | 0.23          | 0.18          | 1.36          | 2.91          | 4.46          | 4.97          | 5.49          | 6             | 6.59          | 7.18          | 7.77          | 7.57          | 7.36          | 7.15          | 10.05         | 12.94         | 15.84         | 14.59         | 13.35         | 12.1          | 11.38         | 10.63         | 9.93          |               |
| 135.4,14        | 6.79          | 9.45          | 12.1          | 8.86          | 5.61          | 2.36          | 2             | 1.64          | 1.28          | 1.05          | 0.81          | 0.58          | 0.23          | 0.11          | 0.46          | 1.08          | 2.62          | 4.17          | 4.82          | 5.47          | 6.12          | 6.64          | 7.15          | 7.67          | 7.52          | 7.37          | 7.22          | 10.08         | 12.93         | 15.79         | 14.66         | 13.54         | 12.42         | 11.59         | 10.76         | 9.93          |               |
| 140.4,14        | 6.86          | 9.57          | 12.29         | 8.91          | 5.54          | 2.16          | 1.87          | 1.57          | 1.28          | 0.89          | 0.5           | 0.11          | 0.17          | 0.45          | 0.73          | 0.8           | 2.34          | 3.87          | 4.66          | 5.45          | 6.24          | 6.68          | 7.12          | 7.56          | 7.47          | 7.39          | 7.3           | 10.11         | 12.92         | 15.73         | 14.73         | 13.73         | 12.73         | 11.8          | 10.86         | 9.93          |               |
| 145.4,14        | 6.92          | 9.7           | 12.48         | 8.97          | 5.46          | 1.95          | 1.73          | 1.5           | 1.27          | 0.73          | 0.19          | 0.36          | 0.57          | 0.79          | 1.01          | 0.52          | 0.25          | 0.58          | 4.51          | 5.44          | 6.37          | 7.09          | 7.45          | 7.42          | 7.4           | 7.37          | 10.14         | 12.91         | 15.68         | 14.8          | 13.92         | 13.05         | 12.01         | 10.97         | 9.93          |               |               |
| 150.4,14        | 6.98          | 9.83          | 12.67         | 9.03          | 5.39          | 1.73          | 1.59          | 1.43          | 1.27          | 0.57          | 0.13          | 0.83          | 0.98          | 1.13          | 1.28          | 0.24          | 1.77          | 3.29          | 4.36          | 5.42          | 6.49          | 6.77          | 7.06          | 7.34          | 7.38          | 7.41          | 7.45          | 10.17         | 12.9          | 15.62         | 14.84         | 14.06         | 13.28         | 12.17         | 11.05         | 9.93          |               |
| 155.4,14        | 6.97          | 9.79          | 12.62         | 8.93          | 5.24          | 1.54          | 1.47          | 1.4           | 1.32          | 0.45          | 0.47          | 0.29          | 0.33          | 0.37          | 0.44          | 0.36          | 1.53          | 3             | 4.1           | 5.19          | 6.29          | 6.61          | 6.92          | 7.23          | 7.47          | 7.7           | 7.93          | 10.48         | 13.02         | 15.57         | 14.84         | 14.12         | 13.39         | 12.23         | 11.08         | 9.93          |               |
| 160.4,14        | 6.76          | 9.38          | 11.99         | 8.44          | 4.89          | 1.34          | 1.35          | 1.36          | 1.37          | 0.33          | 0.72          | 0.76          | 0.63          | 1.5           | 0.37          | 0.01          | 1.35          | 1.71          | 3.81          | 4.9           | 6             | 6.38          | 6.75          | 7.12          | 7.58          | 8.03          | 8.48          | 10.82         | 13.17         | 15.52         | 14.84         | 14.17         | 13.49         | 12.3          | 11.22         | 9.93          |               |
| 165.4,14        | 6.55          | 8.96          | 11.37         | 7.96          | 4.55          | 1.13          | 1.23          | 1.33          | 1.42          | 0.2           | 0.01          | 0.23          | 0.93          | 1.64          | 1.34          | 0.09          | 1.16          | 2.42          | 3.51          | 4.61          | 5.71          | 6.15          | 6.58          | 7.02          | 7.69          | 8.35          | 9.02          | 11.17         | 13.32         | 15.46         | 14.84         | 14.22         | 13.6          | 12.37         | 11.15         | 9.93          |               |
| 170.4,14        | 6.34          | 8.54          | 10.74         | 7.47          | 4.2           | 0.93          | 1.11          | 1.29          | 1.47          | 0.08          | 0.31          | 0.27          |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |

# Raw Data (ANT2@6G 6500MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |               |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |
| 0.0             | 7.2           | 7.3           | 7.4           | 7.5           | 7.6           | 7.7           | 7.8           | 7.9           | 8.0           | 8.1           | 8.2           | 8.3           | 8.4           | 8.5           | 8.6           | 8.7           | 8.8           | 8.9           | 9.0           | 9.1           | 9.2           | 9.3           | 9.4           | 9.5           | 9.6           | 9.7           | 9.8           | 9.9           | 10.0          | 10.1          | 10.2          | 10.3          | 10.4          | 10.5          | 10.6          | 10.7          | 10.8          | 10.9          |
| 5.0             | 8.42          | 7.07          | 5.72          | 3.79          | 1.86          | 0.07          | 1.02          | 2.97          | 4.93          | 6.87          | 8.72          | 10.57         | 12.42         | 14.28         | 16.13         | 17.98         | 19.83         | 21.68         | 23.53         | 25.38         | 27.23         | 29.08         | 30.93         | 32.78         | 34.63         | 36.48         | 38.33         | 40.18         | 42.03         | 43.88         | 45.73         | 47.58         | 49.43         | 51.28         | 53.13         | 54.98         | 56.83         |               |
| 10.0            | 7.84          | 6.97          | 4.67          | 2.38          | 0.08          | 0.96          | 2.91          | 4.86          | 6.81          | 8.76          | 10.71         | 12.66         | 14.61         | 16.56         | 18.51         | 20.46         | 22.41         | 24.36         | 26.31         | 28.26         | 30.21         | 32.16         | 34.11         | 36.06         | 38.01         | 39.96         | 41.91         | 43.86         | 45.81         | 47.76         | 49.71         | 51.66         | 53.61         | 55.56         | 57.51         | 59.46         | 61.41         |               |
| 15.0            | 9.25          | 8.73          | 8.22          | 5.55          | 2.89          | 0.23          | 1.19          | 3.14          | 5.09          | 7.04          | 8.99          | 10.94         | 12.89         | 14.84         | 16.79         | 18.74         | 20.69         | 22.64         | 24.59         | 26.54         | 28.49         | 30.44         | 32.39         | 34.34         | 36.29         | 38.24         | 40.19         | 42.14         | 44.09         | 46.04         | 47.99         | 49.94         | 51.89         | 53.84         | 55.79         | 57.74         | 59.69         |               |
| 20.0            | 9.67          | 9.57          | 9.47          | 6.44          | 3.4           | 0.37          | 1.84          | 3.79          | 5.74          | 7.69          | 9.64          | 11.59         | 13.54         | 15.49         | 17.44         | 19.39         | 21.34         | 23.29         | 25.24         | 27.19         | 29.14         | 31.09         | 33.04         | 34.99         | 36.94         | 38.89         | 40.84         | 42.79         | 44.74         | 46.69         | 48.64         | 50.59         | 52.54         | 54.49         | 56.44         | 58.39         | 60.34         |               |
| 25.0            | 9.82          | 9.88          | 9.93          | 6.79          | 3.65          | 0.52          | 2.07          | 4.02          | 5.97          | 7.92          | 9.87          | 11.82         | 13.77         | 15.72         | 17.67         | 19.62         | 21.57         | 23.52         | 25.47         | 27.42         | 29.37         | 31.32         | 33.27         | 35.22         | 37.17         | 39.12         | 41.07         | 43.02         | 44.97         | 46.92         | 48.87         | 50.82         | 52.77         | 54.72         | 56.67         | 58.62         | 60.57         |               |
| 30.0            | 9.77          | 9.84          | 9.92          | 6.99          | 3.85          | 0.72          | 2.27          | 4.22          | 6.17          | 8.12          | 10.07         | 12.02         | 13.97         | 15.92         | 17.87         | 19.82         | 21.77         | 23.72         | 25.67         | 27.62         | 29.57         | 31.52         | 33.47         | 35.42         | 37.37         | 39.32         | 41.27         | 43.22         | 45.17         | 47.12         | 49.07         | 51.02         | 52.97         | 54.92         | 56.87         | 58.82         | 60.77         |               |
| 35.0            | 9.77          | 9.86          | 9.96          | 7.05          | 3.91          | 0.81          | 2.36          | 4.31          | 6.26          | 8.21          | 10.16         | 12.11         | 14.06         | 16.01         | 17.96         | 19.91         | 21.86         | 23.81         | 25.76         | 27.71         | 29.66         | 31.61         | 33.56         | 35.51         | 37.46         | 39.41         | 41.36         | 43.31         | 45.26         | 47.21         | 49.16         | 51.11         | 53.06         | 55.01         | 56.96         | 58.91         | 60.86         |               |
| 40.0            | 9.77          | 9.88          | 10.0          | 7.16          | 4.02          | 0.95          | 2.47          | 4.42          | 6.37          | 8.32          | 10.27         | 12.22         | 14.17         | 16.12         | 18.07         | 20.02         | 21.97         | 23.92         | 25.87         | 27.82         | 29.77         | 31.72         | 33.67         | 35.62         | 37.57         | 39.52         | 41.47         | 43.42         | 45.37         | 47.32         | 49.27         | 51.22         | 53.17         | 55.12         | 57.07         | 59.02         | 60.97         |               |
| 45.0            | 9.77          | 9.9           | 10.04         | 7.17          | 4.12          | 1.1           | 2.51          | 4.46          | 6.41          | 8.36          | 10.31         | 12.26         | 14.21         | 16.16         | 18.11         | 20.06         | 22.01         | 23.96         | 25.91         | 27.86         | 29.81         | 31.76         | 33.71         | 35.66         | 37.61         | 39.56         | 41.51         | 43.46         | 45.41         | 47.36         | 49.31         | 51.26         | 53.21         | 55.16         | 57.11         | 59.06         | 61.01         |               |
| 50.0            | 9.77          | 9.92          | 10.07         | 7.22          | 4.21          | 1.2           | 2.53          | 4.48          | 6.43          | 8.38          | 10.33         | 12.28         | 14.23         | 16.18         | 18.13         | 20.08         | 22.03         | 23.98         | 25.93         | 27.88         | 29.83         | 31.78         | 33.73         | 35.68         | 37.63         | 39.58         | 41.53         | 43.48         | 45.43         | 47.38         | 49.33         | 51.28         | 53.23         | 55.18         | 57.13         | 59.08         | 61.03         |               |
| 55.0            | 9.77          | 9.94          | 10.11         | 7.29          | 4.28          | 1.28          | 2.73          | 4.68          | 6.63          | 8.58          | 10.53         | 12.48         | 14.43         | 16.38         | 18.33         | 20.28         | 22.23         | 24.18         | 26.13         | 28.08         | 30.03         | 31.98         | 33.93         | 35.88         | 37.83         | 39.78         | 41.73         | 43.68         | 45.63         | 47.58         | 49.53         | 51.48         | 53.43         | 55.38         | 57.33         | 59.28         | 61.23         |               |
| 60.0            | 9.77          | 9.96          | 10.15         | 7.34          | 4.35          | 1.36          | 2.93          | 4.88          | 6.83          | 8.78          | 10.73         | 12.68         | 14.63         | 16.58         | 18.53         | 20.48         | 22.43         | 24.38         | 26.33         | 28.28         | 30.23         | 32.18         | 34.13         | 36.08         | 38.03         | 40.03         | 42.03         | 44.03         | 46.03         | 48.03         | 50.03         | 52.03         | 54.03         | 56.03         | 58.03         | 60.03         |               |               |
| 65.0            | 9.77          | 9.98          | 10.19         | 7.41          | 4.43          | 1.44          | 3.13          | 5.08          | 7.03          | 8.98          | 10.93         | 12.88         | 14.83         | 16.78         | 18.73         | 20.68         | 22.63         | 24.58         | 26.53         | 28.48         | 30.43         | 32.38         | 34.33         | 36.28         | 38.23         | 40.18         | 42.13         | 44.08         | 46.03         | 47.98         | 49.93         | 51.88         | 53.83         | 55.78         | 57.73         | 59.68         | 61.63         |               |
| 70.0            | 9.77          | 10.0          | 10.23         | 7.46          | 4.5           | 1.52          | 3.33          | 5.28          | 7.23          | 9.18          | 11.13         | 13.08         | 15.03         | 16.98         | 18.93         | 20.88         | 22.83         | 24.78         | 26.73         | 28.68         | 30.63         | 32.58         | 34.53         | 36.48         | 38.43         | 40.38         | 42.33         | 44.28         | 46.23         | 48.18         | 50.13         | 52.08         | 54.03         | 55.98         | 57.93         | 59.88         | 61.83         |               |
| 75.0            | 9.77          | 10.02         | 10.27         | 7.52          | 4.57          | 1.6           | 3.53          | 5.48          | 7.43          | 9.38          | 11.33         | 13.28         | 15.23         | 17.18         | 19.13         | 21.08         | 23.03         | 24.98         | 26.93         | 28.88         | 30.83         | 32.78         | 34.73         | 36.68         | 38.63         | 40.58         | 42.53         | 44.48         | 46.43         | 48.38         | 50.33         | 52.28         | 54.23         | 56.18         | 58.13         | 60.08         | 62.03         |               |
| 80.0            | 9.77          | 10.04         | 10.32         | 7.59          | 4.65          | 1.68          | 3.69          | 5.64          | 7.59          | 9.54          | 11.49         | 13.44         | 15.39         | 17.34         | 19.29         | 21.24         | 23.19         | 25.14         | 27.09         | 29.04         | 30.99         | 32.94         | 34.89         | 36.84         | 38.79         | 40.74         | 42.69         | 44.64         | 46.59         | 48.54         | 50.49         | 52.44         | 54.39         | 56.34         | 58.29         | 60.24         | 62.19         |               |
| 85.0            | 9.77          | 10.08         | 10.39         | 7.67          | 4.74          | 1.76          | 3.75          | 5.7           | 7.65          | 9.6           | 11.55         | 13.5          | 15.45         | 17.4          | 19.35         | 21.3          | 23.25         | 25.2          | 27.15         | 29.1          | 31.05         | 33.0          | 34.95         | 36.9          | 38.85         | 40.8          | 42.75         | 44.7          | 46.65         | 48.6          | 50.55         | 52.5          | 54.45         | 56.4          | 58.35         | 60.3          | 62.25         |               |
| 90.0            | 9.77          | 10.11         | 10.46         | 7.78          | 4.82          | 1.84          | 3.83          | 5.78          | 7.73          | 9.68          | 11.63         | 13.58         | 15.53         | 17.48         | 19.43         | 21.38         | 23.33         | 25.28         | 27.23         | 29.18         | 31.13         | 33.08         | 35.03         | 36.98         | 38.93         | 40.88         | 42.83         | 44.78         | 46.73         | 48.68         | 50.63         | 52.58         | 54.53         | 56.48         | 58.43         | 60.38         | 62.33         |               |
| 95.0            | 9.77          | 10.15         | 10.53         | 7.91          | 4.91          | 1.92          | 3.92          | 5.87          | 7.82          | 9.77          | 11.72         | 13.67         | 15.62         | 17.57         | 19.52         | 21.47         | 23.42         | 25.37         | 27.32         | 29.27         | 31.22         | 33.17         | 35.12         | 37.07         | 39.02         | 40.97         | 42.92         | 44.87         | 46.82         | 48.77         | 50.72         | 52.67         | 54.62         | 56.57         | 58.52         | 60.47         | 62.42         |               |
| 100.0           | 9.77          | 10.18         | 10.6          | 8.01          | 5.01          | 2.04          | 4.04          | 5.99          | 7.94          | 9.89          | 11.84         | 13.79         | 15.74         | 17.69         | 19.64         | 21.59         | 23.54         | 25.49         | 27.44         | 29.39         | 31.34         | 33.29         | 35.24         | 37.19         | 39.14         | 41.09         | 43.04         | 44.99         | 46.94         | 48.89         | 50.84         | 52.79         | 54.74         | 56.69         | 58.64         | 60.59         | 62.54         |               |
| 105.0           | 9.77          | 10.22         | 10.67         | 8.11          | 5.09          | 2.08          | 4.1           | 6.05          | 8.0           | 9.95          | 11.9          | 13.85         | 15.8          | 17.75         | 19.7          | 21.65         | 23.6          | 25.55         | 27.5          | 29.45         | 31.4          | 33.35         | 35.3          | 37.25         | 39.2          | 41.15         | 43.1          | 45.05         | 47.0          | 48.95         | 50.9          | 52.85         | 54.8          | 56.75         | 58.7          | 60.65         | 62.6          |               |
| 110.0           | 9.77          | 10.25         | 10.74         | 8.2           | 5.18          | 2.16          | 4.26          | 6.21          | 8.16          | 10.11         | 12.06         | 14.01         | 15.96         | 17.91         | 19.86         | 21.81         | 23.76         | 25.71         | 27.66         | 29.61         | 31.56         | 33.51         | 35.46         | 37.41         | 39.36         | 41.31         | 43.26         | 45.21         | 47.16         | 49.11         | 51.06         | 53.01         | 54.96         | 56.91         | 58.86         | 60.81         | 62.76         |               |
| 115.0           | 9.77          | 10.29         | 10.81         | 8.3           | 5.27          | 2.24          | 4.33          | 6.28          | 8.23          | 10.18         | 12.13         | 14.08         | 16.03         | 17.98         | 19.93         | 21.88         | 23.83         | 25.78         | 27.73         | 29.68         | 31.63         | 33.58         | 35.53         | 37.48         | 39.43         | 41.38         | 43.33         | 45.28         | 47.23         | 49.18         | 51.13         | 53.08         | 55.03         | 56.98         | 58.93         | 60.88         | 62.83         |               |
| 120.0           | 9.77          | 10.32         | 10.88         | 8.39          | 5.35          | 2.32          | 4.43          | 6.38          | 8.33          | 10.28         | 12.23         | 14.18         | 16.13         | 18.08         | 20.03         | 21.98         | 23.93         | 25.88         | 27.83         | 29.78         | 31.73         | 33.68         | 35.63         | 37.58         | 39.53         | 41.48         | 43.43         | 45.38         | 47.33         | 49.28         | 51.23         | 53.18         | 55.13         | 57.08         | 59.03         | 60.98         | 62.93         |               |
| 125.0           | 9.77          | 10.36         | 10.98         | 8.47          | 5.43          | 2.41          | 4.53          | 6.48          | 8.43          | 10.38         | 12.33         | 14.28         | 16.23         | 18.18         | 20.13         | 22.08         | 24.03         | 25.98         | 27.93         | 29.88         | 31.83         | 33.78         | 35.73         | 37.68         | 39.63         | 41.58         | 43.53         | 45.48         | 47.43         | 49.38         | 51.33         | 53.28         | 55.23         | 57.18         | 59.13         | 61.08         | 63.03         |               |
| 130.0           | 9.77          | 10.39         | 11.02         | 8.54          | 5.54          | 2.51          | 4.63          | 6.58          | 8.53          | 10.48         | 12.43         | 14.38         | 16.33         | 18.28         | 20.23         | 22.18         | 24.13         | 26.08         | 28.03         | 29.98         | 31.93         | 33.88         | 35.83         | 37.78         | 39.73         | 41.68         | 43.63         | 45.58         | 47.53         | 49.48         | 51.43         | 53.38         | 55.33         | 57.28         | 59.23         | 61.18         | 63.13         |               |
| 135.0           | 9.77          | 10.43         | 11.09         | 8.63          | 5.63          | 2.6           | 4.73          | 6.68          | 8.63          | 10.58         | 12.53         | 14.48         | 16.43         | 18.38         | 20.33         | 22.28         | 24.23         | 26.18         | 28.13         | 30.08         | 32.03         | 33.98         | 35.93         | 37.88         | 39.83         | 41.78         | 43.73         | 45.68         | 47.63         | 49.58         | 51.53         | 53.48         | 55.43         | 57.38         | 59.33         | 61.28         | 63.23         |               |
| 140.0           | 9.77          | 10.46         | 11.16         | 8.69          | 5.69          | 2.65          | 4.78          | 6.73          | 8.68          | 10.63         | 12.58         | 14.53         | 16.48         | 18.43         | 20.38         | 22.33         | 24.28         | 26.23         | 28.18         | 30.13         | 32.08         | 34.03         | 35.98         | 37.93         | 39.88         | 41.83         | 43.78         | 45.73         | 47.68         | 49.63         | 51.58         | 53.53         | 55.48         | 57.43         | 59.38         | 61.33         | 63.28         |               |
| 145.0           | 9.77          | 10.5          | 11.23         | 8.78          | 5.78          | 2.75          | 4.88          | 6.83          | 8.78          | 10.73         | 12.68         | 14.63         | 16.58         | 18.53         | 20.48         | 22.43         | 24.38         | 26.33         | 28.28         | 30.23         | 32.18         | 34.13         | 36.08         | 38.03         | 39.98         | 41.93         | 43.88         | 45.83         | 47.78         | 49.73         | 51.68         | 53.63         | 55.58         | 57.53         | 59.48         | 61.43         | 63.38         |               |
| 150.0           | 9.77          | 10.53         | 11.3          | 8.87          | 5.87          | 2.84          | 4.98          | 6.93          | 8.88          | 10.83         | 12.78         | 14.73         | 16.68         | 18.63         | 20.58         | 22.53         | 24.48         | 26.43         | 28.38         | 30.33         | 32.28         | 34.23         | 36.18         | 38.13         | 39.98         | 41.93         | 43.88         | 45.83         | 47.78         | 49.73         | 51.68         | 53.63         | 55.58         | 57.53         | 59.48         | 61.43         | 63.38         |               |
| 155.0           | 9.77          | 10.51         | 11.25         | 8.9           | 5.98          | 2.88          | 5.08          | 7.03          | 8.98          | 10.93         | 12.88         | 14.83         | 16.78         | 18.73         | 20.68         | 22.63         | 24.58         | 26.53         |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |               |

# Raw Data (ANT2@6G 7200MHz)

| Theta Angle (°) | 0             | 5             | 10            | 15            | 20            | 25            | 30            | 35            | 40            | 45            | 50            | 55            | 60            | 65            | 70            | 75            | 80            | 85            | 90            | 95            | 100           | 105           | 110           | 115           | 120           | 125           | 130           | 135           | 140           | 145           | 150           | 155           | 160           | 165           | 170           | 175           | 180           |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
|-----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| Phi Angle (°)   | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) | Response (dB) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 0.6.87          | 6.9           | 6.02          | 6.35          | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         | 15.36         |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 5.6.87          | 7.21          | 7.56          | 7.9           | 5.44          | 2.97          | 0.5           | 3.44          | 1.38          | 2.32          | 2.24          | 2.16          | 2.07          | 3.9           | 2.71          | 2.03          | 0.11          | 0.26          | 0.4           | 1.79          | 3.17          | 4.56          | 5.34          | 6.11          | 6.89          | 8.43          | 9.97          | 11.51         | 11.42         | 11.33         | 11.24         | 10.78         | 10.31         | 9.85          | 9.72          | 9.59          | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 10.6.87         | 7.53          | 8.19          | 8.85          | 6.13          | 3.42          | 0.7           | 3.37          | 1.44          | 2.51          | 2.33          | 2.16          | 1.99          | 3.39          | 2.79          | 2.19          | 0             | 0.19          | 0.38          | 1.71          | 3.04          | 4.36          | 4.95          | 5.54          | 6.13          | 7.72          | 9.3           | 10.88         | 10.87         | 10.85         | 10.83         | 10.87         | 10.91         | 10.95         | 10.45         | 9.96          | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 15.6.87         | 7.85          | 8.83          | 9.8           | 6.83          | 3.86          | 0.89          | 3.3           | 1.5           | 2.69          | 2.43          | 2.17          | 1.9           | 3.38          | 2.86          | 2.34          | 0.11          | 0.12          | 0.36          | 1.63          | 3.9           | 4.17          | 4.57          | 4.97          | 5.37          | 7             | 8.62          | 10.25         | 10.27         | 10.3          | 10.32         | 10.89         | 11.47         | 12.04         | 11.19         | 10.33         | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 20.6.87         | 8.17          | 9.46          | 10.76         | 7.53          | 4.11          | 1.09          | 2.33          | 1.55          | 2.87          | 2.52          | 2.17          | 1.82          | 3.38          | 2.93          | 2.49          | 0.22          | 0.06          | 0.33          | 1.55          | 2.76          | 3.98          | 4.19          | 4.4           | 4.61          | 6.28          | 7.95          | 9.62          | 9.68          | 9.74          | 9.8           | 10.91         | 12.03         | 13.14         | 11.92         | 10.69         | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 25.6.87         | 8.25          | 9.64          | 11.02         | 7.77          | 4.53          | 1.28          | 2.04          | 1.36          | 2.67          | 2.36          | 2.05          | 1.71          | 2.8           | 2.82          | 2.36          | 0.14          | 0.09          | 0.31          | 1.51          | 2.71          | 3.91          | 3.89          | 3.87          | 3.85          | 5.62          | 7.39          | 9.16          | 9.2           | 9.24          | 9.28          | 10.51         | 11.74         | 12.97         | 11.8          | 10.64         | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 30.6.87         | 8.22          | 9.57          | 10.93         | 7.78          | 4.63          | 1.47          | 2.25          | 2.07          | 2.2           | 2.01          | 1.83          | 1.65          | 1.15          | 2.04          | 2.14          | 0             | 0.15          | 0.29          | 1.5           | 2.72          | 3.93          | 3.65          | 3.37          | 3.09          | 4.99          | 6.89          | 8.79          | 8.78          | 8.77          | 8.77          | 10.02         | 11.27         | 12.53         | 11.51         | 10.49         | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 35.6.87         | 8.19          | 9.51          | 10.83         | 7.78          | 4.72          | 1.67          | 2.54          | 2.59          | 1.72          | 1.67          | 1.62          | 1.56          | 1.02          | 1.47          | 0.08          | 0.14          | 0.2           | 0.27          | 1.5           | 2.73          | 3.96          | 3.41          | 2.87          | 2.32          | 4.35          | 6.38          | 8.41          | 8.36          | 8.3           | 8.25          | 9.53          | 10.8          | 12.08         | 11.21         | 10.34         | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 40.6.87         | 8.16          | 9.45          | 10.74         | 7.78          | 4.82          | 1.86          | 0.83          | 0.21          | 1.24          | 1.32          | 1.4           | 1.48          | 3.89          | 3.3           | 3.3           | 0.31          | 0.32          | 0.34          | 1.55          | 2.77          | 3.98          | 3.26          | 2.54          | 1.82          | 1.89          | 5.96          | 8.03          | 7.93          | 7.83          | 7.73          | 9.03          | 10.33         | 11.64         | 10.91         | 10.19         | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 45.6.87         | 8.13          | 9.39          | 10.65         | 7.79          | 4.92          | 2.06          | 1.12          | 0.18          | 0.77          | 0.98          | 1.19          | 1.4           | 1.76          | 1.12          | 0.52          | 0.54          | 0.56          | 0.58          | 1.73          | 2.87          | 4.01          | 3.39          | 2.77          | 2.15          | 1.98          | 5.82          | 7.65          | 7.51          | 7.36          | 7.22          | 8.54          | 9.87          | 11.19         | 10.62         | 10.04         | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 50.6.87         | 8.1           | 9.33          | 10.56         | 7.74          | 4.92          | 2.29          | 1.3           | 0.51          | 0.29          | 0.63          | 0.86          | 1.3           | 1.62          | 0.86          | 0.73          | 0.7           | 0.8           | 0.83          | 1.9           | 2.97          | 4.03          | 3.51          | 2.99          | 2.47          | 4.07          | 6.68          | 7.28          | 7.28          | 7.28          | 7.28          | 7.28          | 7.28          | 7.28          | 7.28          | 7.28          | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 55.6.87         | 8.07          | 9.27          | 10.47         | 7.66          | 4.86          | 2.05          | 1.43          | 0.81          | 0.19          | 0.21          | 0.61          | 1.01          | 1.36          | 0.3           | 0.95          | 1             | 1.04          | 1.08          | 2.07          | 3.07          | 4.06          | 3.64          | 3.22          | 2.8           | 4.17          | 5.53          | 6.9           | 7.09          | 7.29          | 7.48          | 8.42          | 9.36          | 10.3          | 10.02         | 9.74          | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 60.6.87         | 8.04          | 9.21          | 10.37         | 7.59          | 4.8           | 2.01          | 1.56          | 1.11          | 0.66          | 0.3           | 0.26          | 0.72          | 0.69          | 0.54          | 1.17          | 1.22          | 1.28          | 1.33          | 2.25          | 3.17          | 4.08          | 3.76          | 3.44          | 3.12          | 4.26          | 5.39          | 6.52          | 6.91          | 7.29          | 7.67          | 8.4           | 9.13          | 9.85          | 9.73          | 9.47          | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 65.6.87         | 8.01          | 9.14          | 10.28         | 7.51          | 4.74          | 1.97          | 1.69          | 1.42          | 1.14          | 0.61          | 0.09          | 0.44          | 0.17          | 0.78          | 1.19          | 1.45          | 1.52          | 1.58          | 2.42          | 3.26          | 4.11          | 3.89          | 3.67          | 3.45          | 4.35          | 5.25          | 6.15          | 6.72          | 7.29          | 7.86          | 8.38          | 8.89          | 9.41          | 9.43          | 9.45          | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 70.6.87         | 7.98          | 9.08          | 10.19         | 7.44          | 4.68          | 1.93          | 1.83          | 1.82          | 1.72          | 1.62          | 1.03          | 0.44          | 0.15          | 0.43          | 1.02          | 1.61          | 1.68          | 1.75          | 1.83          | 2.6           | 3.46          | 4.13          | 4.01          | 3.89          | 3.77          | 4.44          | 5.1           | 5.77          | 6.53          | 7.29          | 8.06          | 8.36          | 8.66          | 8.96          | 9.13          | 9.3           | 9.47          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 75.6.87         | 7.95          | 9.02          | 10.1          | 7.36          | 4.62          | 1.89          | 1.96          | 2.02          | 2.09          | 1.44          | 0.79          | 0.11          | 0.7           | 1.26          | 1.83          | 1.91          | 1.99          | 2.07          | 2.77          | 3.46          | 4.16          | 4.14          | 4.12          | 4.1           | 4.53          | 4.96          | 5.99          | 6.34          | 7.29          | 8.25          | 8.34          | 8.43          | 8.52          | 8.83          | 9.15          | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 80.6.87         | 7.93          | 8.98          | 10.04         | 7.31          | 4.58          | 1.85          | 2.05          | 2.26          | 2.46          | 1.78          | 1.1           | 0.42          | 0.92          | 1.43          | 1.93          | 2.06          | 2.19          | 2.32          | 2.94          | 3.56          | 4.18          | 4.26          | 4.34          | 4.42          | 4.65          | 4.88          | 5.11          | 6.22          | 7.33          | 8.44          | 8.45          | 8.46          | 8.48          | 8.81          | 9.14          | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 85.6.87         | 7.95          | 9.03          | 10.11         | 7.34          | 4.57          | 1.78          | 2.01          | 2.21          | 2.41          | 1.84          | 1.27          | 0.7           | 1.03          | 1.36          | 1.67          | 1.98          | 2.28          | 2.57          | 3.14          | 3.71          | 4.29          | 4.44          | 4.59          | 4.75          | 4.94          | 5.12          | 5.31          | 6.42          | 7.52          | 8.62          | 8.67          | 8.7           | 8.74          | 8.98          | 9.22          | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 90.6.87         | 7.97          | 9.07          | 10.17         | 7.37          | 4.57          | 1.76          | 1.96          | 2.17          | 2.37          | 1.91          | 1.45          | 0.99          | 0.14          | 1.3           | 1.45          | 1.91          | 2.36          | 2.82          | 3.34          | 3.87          | 4.39          | 4.62          | 4.85          | 5.07          | 5.22          | 5.37          | 5.51          | 6.62          | 7.72          | 8.82          | 8.88          | 8.94          | 9             | 9.16          | 9.31          | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 95.6.87         | 7.99          | 9.12          | 10.24         | 7.4           | 4.56          | 1.72          | 1.92          | 2.12          | 2.32          | 1.97          | 1.62          | 1.28          | 1.25          | 1.23          | 1.21          | 1.83          | 2.45          | 3.07          | 3.55          | 4.02          | 4.5           | 4.8           | 5.1           | 5.4           | 5.5           | 5.61          | 5.71          | 6.81          | 7.91          | 9.01          | 9.1           | 9.18          | 9.26          | 9.33          | 9.4           | 9.47          |               |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |     |
| 100.6.87        | 8.02          | 9.16          | 10.31         | 7.43          | 4.56          | 1.68          | 1.88          | 2.08          | 2.28          | 2.04          | 1.8           | 1.56          | 1.36          | 1.16          | 0.97          | 0.75          | 0.53          | 0.32          | 0.75          | 1.18          | 1.61          | 1.98          | 2.35          | 2.72          | 3.09          | 3.45          | 3.81          | 4.11          | 5.21          | 6.31          | 7.41          | 8.51          | 9.61          | 10.71         | 11.81         | 12.91         | 14.01         | 15.11 | 16.21 | 17.31 | 18.41 | 19.51 | 20.61 | 21.71 | 22.81 | 23.91 | 25.01 | 26.11 | 27.21 | 28.31 | 29.41 | 30.51 | 31.61 | 32.71 | 33.81 | 34.91 | 36.01 | 37.11 | 38.21 | 39.31 | 40.41 | 41.51 | 42.61 | 43.71 | 44.81 | 45.91 | 47.01 | 48.11 | 49.21 | 50.31 | 51.41 | 52.51 | 53.61 | 54.71 | 55.81 | 56.91 | 58.01 | 59.11 | 60.21 | 61.31 | 62.41 | 63.51 | 64.61 | 65.71 | 66.81 | 67.91 | 69.01 | 70.11 | 71.21 | 72.31 | 73.41 | 74.51 | 75.61 | 76.71 | 77.81 | 78.91 | 80.01 | 81.11 | 82.21 | 83.31 | 84.41 | 85.51 | 86.61 | 87.71 | 88.81 | 89.91 | 91.01 | 92.11 | 93.21 | 94.31 | 95.41 | 96.51 | 97.61 | 98.71 | 99.81 | 100.91 | 102.01 | 103.11 | 104.21 | 105.31 | 106.41 | 107.51 | 108.61 | 109.71 | 110.81 | 111.91 | 113.01 | 114.11 | 115.21 | 116.31 | 117.41 | 118.51 | 119.61 | 120.71 | 121.81 | 122.91 | 124.01 | 125.11 | 126.21 | 127.31 | 128.41 | 129.51 | 130.61 | 131.71 | 132.81 | 133.91 | 135.01 | 136.11 | 137.21 | 138.31 | 139.41 | 140.51 | 141.61 | 142.71 | 143.81 | 144.91 | 146.01 | 147.11 | 148.21 | 149.31 | 150.41 | 151.51 | 152.61 | 153.71 | 154.81 | 155.91 | 157.01 | 158.11 | 159.21 | 160.31 | 161.41 | 162.51 | 163.61 | 164.71 | 165.81 | 166.91 | 168.01 | 169.11 | 170.21 | 171.31 | 172.41 | 173.51 | 174.61 | 175.71 | 176.81 | 177.91 | 179.01 | 180.11 | 181.21 | 182.31 | 183.41 | 184.51 | 185.61 | 186.71 | 187.81 | 188.91 | 190.01 | 191.11 | 192.21 | 193.31 | 194.41 | 195.51 | 196.61 | 197.71 | 198.81 | 199.91 | 201.01 | 202.11 | 203.21 | 204.31 | 205.41 | 206.51 | 207.61 | 208.71 | 209.81 | 210.91 | 212.01 | 213.11 | 214.21 | 215.31 | 216.41 | 217.51 | 218.61 | 219.71 | 220.81 | 221.91 | 223.01 | 224.11 | 225.21 | 226.31 | 227.41 | 228.51 | 229.61 | 230.71 | 231.81 | 232.91 | 234.01 | 235.11 | 236.21 | 237.31 | 238.41 | 239.51 | 240.61 | 241.71 | 242.81 | 243.91 | 245.01 | 246.11 | 247.21 | 248.31 | 249.41 | 250.51 | 251.61 | 252.71 | 253.81 | 254.91 | 256.01 | 257.11 | 258.21 | 259.31 | 260.41 | 261.51 | 262.61 | 263.71 | 264.81 | 265.91 | 267.01 | 268.11 | 269.21 | 270.31 | 271.41 | 272.51 | 273.61 | 274.71 | 275.81 | 276.91 | 278.01 | 279.11 | 280.21 | 281.31 | 282.41 | 283.51 | 284.61 | 285.71 | 286.81 | 287.91 | 289.01 | 290.11 | 291.21 | 292.31 | 293.41 | 294.51 | 295.61 | 296.71 | 297.81 | 298.91 | 300.01 | 301.11 | 302.21 | 303.31 | 304.41 | 305.51 | 306.61 | 307.71 | 308.81 | 309.91 | 311.01 | 312.11 | 313.21 | 314.31 | 315.31 | 316.41 | 317.51 | 318.61 | 319.71 | 320.81 | 321.91 | 323.01 | 324.11 | 325.21 | 326.31 | 327.41 | 328.51 | 329.61 | 330.71 | 331.81 | 332.91 | 334.01 | 335.11 | 336.21 | 337.31 | 338.41 | 339.51 | 340.61 | 341.71 | 342.81 | 343.91 | 345.01 | 346.11 | 347.21 | 348.31 | 349.41 | 350.51 | 351.61 | 352.71 | 353.81 | 354.91 | 356.01 | 357.11 | 358.21 | 359.31 | 360.41 | 361.51 | 362.61 | 363.71 | 364.81 | 365.91 | 367.01 | 368.11 | 369.21 | 370.31 | 371.41 | 372.51 | 373.61 | 374.71 | 375.81 | 376.91 | 378.01 | 379.11 | 380.21 | 381.31 | 382.41 | 383.51 | 384.61 | 385.71 | 386.81 | 387.91 | 389.01 | 390.11 | 391.21 | 392.31 | 393.41 | 394.51 | 395.61 | 396.71 | 397.81 | 398.91 | 400.01 | 401.11 | 402.21 | 403.31 | 404.41 | 405.51 | 406.61 | 407.71 | 408.81 | 409.91 | 411.01 | 412.11 | 413.21 | 414.31 | 415.41 | 416.51 | 417.61 | 418.71 | 419.81 | 420.91 | 422.01 | 423.11 | 424.21 | 425.31 | 426.41 | 427.51 | 428.61 | 429.71 | 430.81 | 431.91 | 433.01 | 434.11 | 435.21 | 436.31 | 437.41 | 438.51 | 439.61 | 440.71 | 441.81 | 442.91 | 444.01 | 445.11 | 446.21 | 447.31 | 448.41 | 449.51 | 450.61 | 451.71 | 452.81 | 453.91 | 455.01 | 456.11 | 457.21 | 458.31 | 459.41 | 460.51 | 461.61 | 462.71 | 463.81 | 464.91 | 466.01 | 467.11 | 468.21 | 469.31 | 470.41 | 471.51 | 472.61 | 473.71 | 474 |



# Raw Data (ANT3@6G 6500MHz)

| Theta Angle (°) | 0    | 5    | 10   | 15   | 20   | 25   | 30   | 35   | 40   | 45   | 50   | 55   | 60   | 65   | 70   | 75   | 80   | 85   | 90   | 95   | 100  | 105  | 110  | 115  | 120  | 125  | 130  | 135  | 140  | 145  | 150  | 155  | 160  | 165  | 170  | 175  | 180  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       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| Phi Angle (°)   | 0    | 1.2  | 1.3  | 1.4  | 1.5  | 1.6  | 1.7  | 1.8  | 1.9  | 2.0  | 2.1  | 2.2  | 2.3  | 2.4  | 2.5  | 2.6  | 2.7  | 2.8  | 2.9  | 3.0  | 3.1  | 3.2  | 3.3  | 3.4  | 3.5  | 3.6  | 3.7  | 3.8  | 3.9  | 4.0  | 4.1  | 4.2  | 4.3  | 4.4  | 4.5  | 4.6  | 4.7  | 4.8  | 4.9  | 5.0  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |      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|       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 0.1             | 0.16 | 0.14 | 0.12 | 0.10 | 0.08 | 0.06 | 0.04 | 0.02 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    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|       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 5.1             | 3.63 | 3.66 | 3.69 | 3.72 | 3.75 | 3.78 | 3.81 | 3.84 | 3.87 | 3.90 | 3.93 | 3.96 | 3.99 | 4.02 | 4.05 | 4.08 | 4.11 | 4.14 | 4.17 | 4.20 | 4.23 | 4.26 | 4.29 | 4.32 | 4.35 | 4.38 | 4.41 | 4.44 | 4.47 | 4.50 | 4.53 | 4.56 | 4.59 | 4.62 | 4.65 | 4.68 | 4.71 | 4.74 | 4.77 | 4.80 | 4.83 | 4.86 | 4.89 | 4.92 | 4.95 | 4.98 | 5.01 | 5.04 | 5.07 | 5.10 | 5.13 | 5.16 | 5.19 | 5.22 | 5.25 | 5.28 | 5.31 | 5.34 | 5.37 | 5.40 | 5.43 | 5.46 | 5.49 | 5.52 | 5.55 | 5.58 | 5.61 | 5.64 | 5.67 | 5.70 | 5.73 | 5.76 | 5.79 | 5.82 | 5.85 | 5.88 | 5.91 | 5.94 | 5.97 | 6.00 | 6.03 | 6.06 | 6.09 | 6.12 | 6.15 | 6.18 | 6.21 | 6.24 | 6.27 | 6.30 | 6.33 | 6.36 | 6.39 | 6.42 | 6.45 | 6.48 | 6.51 | 6.54 | 6.57 | 6.60 | 6.63 | 6.66 | 6.69 | 6.72 | 6.75 | 6.78 | 6.81 | 6.84 | 6.87 | 6.90 | 6.93 | 6.96 | 6.99 | 7.02 | 7.05 | 7.08 | 7.11 | 7.14 | 7.17 | 7.20 | 7.23 | 7.26 | 7.29 | 7.32 | 7.35 | 7.38 | 7.41 | 7.44 | 7.47 | 7.50 | 7.53 | 7.56 | 7.59 | 7.62 | 7.65 | 7.68 | 7.71 | 7.74 | 7.77 | 7.80 | 7.83 | 7.86 | 7.89 | 7.92 | 7.95 | 7.98 | 8.01 | 8.04 | 8.07 | 8.10 | 8.13 | 8.16 | 8.19 | 8.22 | 8.25 | 8.28 | 8.31 | 8.34 | 8.37 | 8.40 | 8.43 | 8.46 | 8.49 | 8.52 | 8.55 | 8.58 | 8.61 | 8.64 | 8.67 | 8.70 | 8.73 | 8.76 | 8.79 | 8.82 | 8.85 | 8.88 | 8.91 | 8.94 | 8.97 | 9.00 | 9.03 | 9.06 | 9.09 | 9.12 | 9.15 | 9.18 | 9.21 | 9.24 | 9.27 | 9.30 | 9.33 | 9.36 | 9.39 | 9.42 | 9.45 | 9.48 | 9.51 | 9.54 | 9.57 | 9.60 | 9.63 | 9.66 | 9.69 | 9.72 | 9.75 | 9.78 | 9.81 | 9.84 | 9.87 | 9.90 | 9.93 | 9.96 | 9.99 | 10.02 | 10.05 | 10.08 | 10.11 | 10.14 | 10.17 | 10.20 | 10.23 | 10.26 | 10.29 | 10.32 | 10.35 | 10.38 | 10.41 | 10.44 | 10.47 | 10.50 | 10.53 | 10.56 | 10.59 | 10.62 | 10.65 | 10.68 | 10.71 | 10.74 | 10.77 | 10.80 | 10.83 | 10.86 | 10.89 | 10.92 | 10.95 | 10.98 | 11.01 | 11.04 | 11.07 | 11.10 | 11.13 | 11.16 | 11.19 | 11.22 | 11.25 | 11.28 | 11.31 | 11.34 | 11.37 | 11.40 | 11.43 | 11.46 | 11.49 | 11.52 | 11.55 | 11.58 | 11.61 | 11.64 | 11.67 | 11.70 | 11.73 | 11.76 | 11.79 | 11.82 | 11.85 | 11.88 | 11.91 | 11.94 | 11.97 | 12.00 | 12.03 | 12.06 | 12.09 | 12.12 | 12.15 | 12.18 | 12.21 | 12.24 | 12.27 | 12.30 | 12.33 | 12.36 | 12.39 | 12.42 | 12.45 | 12.48 | 12.51 | 12.54 | 12.57 | 12.60 | 12.63 | 12.66 | 12.69 | 12.72 | 12.75 | 12.78 | 12.81 | 12.84 | 12.87 | 12.90 | 12.93 | 12.96 | 12.99 | 13.02 | 13.05 | 13.08 | 13.11 | 13.14 | 13.17 | 13.20 | 13.23 | 13.26 | 13.29 | 13.32 | 13.35 | 13.38 | 13.41 | 13.44 | 13.47 | 13.50 | 13.53 | 13.56 | 13.59 | 13.62 | 13.65 | 13.68 | 13.71 | 13.74 | 13.77 | 13.80 | 13.83 | 13.86 | 13.89 | 13.92 | 13.95 | 13.98 | 14.01 | 14.04 | 14.07 | 14.10 | 14.13 | 14.16 | 14.19 | 14.22 | 14.25 | 14.28 | 14.31 | 14.34 | 14.37 | 14.40 | 14.43 | 14.46 | 14.49 | 14.52 | 14.55 | 14.58 | 14.61 | 14.64 | 14.67 | 14.70 | 14.73 | 14.76 | 14.79 | 14.82 | 14.85 | 14.88 | 14.91 | 14.94 | 14.97 | 15.00 | 15.03 | 15.06 | 15.09 | 15.12 | 15.15 | 15.18 | 15.21 | 15.24 | 15.27 | 15.30 | 15.33 | 15.36 | 15.39 | 15.42 | 15.45 | 15.48 | 15.51 | 15.54 | 15.57 | 15.60 | 15.63 | 15.66 | 15.69 | 15.72 | 15.75 | 15.78 | 15.81 | 15.84 | 15.87 | 15.90 | 15.93 | 15.96 | 15.99 | 16.02 | 16.05 | 16.08 | 16.11 | 16.14 | 16.17 | 16.20 | 16.23 | 16.26 | 16.29 | 16.32 | 16.35 | 16.38 | 16.41 | 16.44 | 16.47 | 16.50 | 16.53 | 16.56 | 16.59 | 16.62 | 16.65 | 16.68 | 16.71 | 16.74 | 16.77 | 16.80 | 16.83 | 16.86 | 16.89 | 16.92 | 16.95 | 16.98 | 17.01 | 17.04 | 17.07 | 17.10 | 17.13 | 17.16 | 17.19 | 17.22 | 17.25 | 17.28 | 17.31 | 17.34 | 17.37 | 17.40 | 17.43 | 17.46 | 17.49 | 17.52 | 17.55 | 17.58 | 17.61 | 17.64 | 17.67 | 17.70 | 17.73 | 17.76 | 17.79 | 17.82 | 17.85 | 17.88 | 17.91 | 17.94 | 17.97 | 18.00 | 18.03 | 18.06 | 18.09 | 18.12 | 18.15 | 18.18 | 18.21 | 18.24 | 18.27 | 18.30 | 18.33 | 18.36 | 18.39 | 18.42 | 18.45 | 18.48 | 18.51 | 18.54 | 18.57 | 18.60 | 18.63 | 18.66 | 18.69 | 18.72 | 18.75 | 18.78 | 18.81 | 18.84 | 18.87 | 18.90 | 18.93 | 18.96 | 18.99 | 19.02 | 19.05 | 19.08 | 19.11 | 19.14 | 19.17 | 19.20 | 19.23 | 19.26 | 19.29 | 19.32 | 19.35 | 19.38 | 19.41 | 19.44 | 19.47 | 19.50 | 19.53 | 19.56 | 19.59 | 19.62 | 19.65 | 19.68 | 19.71 | 19.74 | 19.77 | 19.80 | 19.83 | 19.86 | 19.89 | 19.92 | 19.95 | 19.98 | 20.01 | 20.04 | 20.07 | 20.10 | 20.13 | 20.16 | 20.19 | 20.22 | 20.25 | 20.28 | 20.31 | 20.34 | 20.37 | 20.40 | 20.43 | 20.46 | 20.49 | 20.52 | 20.55 | 20.58 | 20.61 | 20.64 | 20.67 | 20.70 | 20.73 | 20.76 | 20.79 | 20.82 | 20.85 | 20.88 | 20.91 | 20.94 | 20.97 | 21.00 | 21.03 | 21.06 | 21.09 | 21.12 | 21.15 | 21.18 | 21.21 | 21.24 | 21.27 | 21.30 | 21.33 | 21.36 | 21.39 | 21.42 | 21.45 | 21.48 | 21.51 | 21.54 | 21.57 | 21.60 | 21.63 | 21.66 | 21.69 | 21.72 | 21.75 | 21.78 | 21.81 | 21.84 | 21.87 | 21.90 | 21.93 | 21.96 | 21.99 | 22.02 | 22.05 | 22.08 | 22.11 | 22.14 | 22.17 | 22.20 | 22.23 | 22.26 | 22.29 | 22.32 | 22.35 | 22.38 | 22.41 | 22.44 | 22.47 | 22.50 | 22.53 | 22.56 | 22.59 | 22.62 | 22.65 | 22.68 | 22.71 | 22.74 | 22.77 | 22.80 | 22.83 | 22.86 | 22.89 | 22.92 | 22.95 | 22.98 | 23.01 | 23.04 | 23.07 | 23.10 | 23.13 | 23.16 | 23.19 | 23.22 | 23.25 | 23.28 | 23.31 | 23.34 | 23.37 | 23.40 | 23.43 | 23.46 | 23.49 | 23.52 | 23.55 | 23.58 | 23.61 | 23.64 | 23.67 | 23.70 | 23.73 | 23.76 | 23.79 | 23.82 | 23.85 | 23.88 | 23.91 | 23.94 | 23.97 | 24.00 | 24.03 | 24.06 | 24.09 | 24.12 | 24.15 | 24.18 | 24.21 | 24.24 | 24.27 | 24.30 | 24.33 | 24.36 | 24.39 | 24.42 | 24.45 | 24.48 | 24.51 | 24.54 | 24.57 | 24.60 | 24.63 | 24.66 | 24.69 | 24.72 | 24.75 | 24.78 | 24.81 | 24.84 | 24.87 | 24.90 | 24.93 | 24.96 | 24.99 | 25.02 | 25.05 | 25.08 | 25.11 | 25.14 | 25.17 | 25.20 | 25.23 | 25.26 | 25.29 | 25.32 | 25.35 | 25.38 | 25.41 | 25.44 | 25.47 | 25.50 | 25.53 | 25.56 | 25.59 | 25.62 | 25.65 | 25.68 | 25.71 | 25.74 | 25.77 | 25.80 | 25.83 | 25.86 | 25.89 | 25.92 | 25.95 | 25.98 | 26.01 | 26.04 | 26.07 | 26.10 | 26.13 | 26.16 | 26.19 | 26.22 | 26.25 | 26.28 | 26.31 | 26.34 | 26.37 | 26.40 | 26.43 | 26.46 | 26.49 | 26.52 | 26.55 | 26.58 | 26.61 | 26.64 | 26.67 | 26.70 | 26.73 | 26.76 | 26.79 | 26.82 | 26.85 | 26.88 | 26.91 | 26.94 | 26.97 | 27.00 | 27.03 | 27.06 | 27.09 | 27.12 | 27.15 | 27.18 | 27.21 | 27.24 | 27.27 | 27.30 | 27.33 | 27.36 | 27.39 | 27.42 | 27.45 | 27.48 | 27.51 | 27.54 | 27.57 | 27.60 | 27.63 | 27.66 | 27.69 | 27.72 | 27.75 | 27.78 | 27.81 | 27.84 | 27.87 | 27.90 | 27.93 | 27.96 | 27.99 | 28.02 | 28.05 | 28.08 | 28.11 | 28.14 | 28.17 | 28.20 | 28.23 | 28.26 | 28.29 | 28.32 | 28.35 | 28.38 | 28.41 | 28.44 | 28.47 | 28.50 | 28.53 | 28.56 | 28.59 | 28.62 | 28.65 | 28.68 | 28.71 | 28.74 | 28.77 | 28.80 | 28.83 | 28.86 | 28.89 | 28.92 | 28.95 | 28.98 | 29.01 | 29.04 | 29.07 | 29.10 | 29.13 | 29.16 | 29.19 | 29.22 | 29.25 | 29.28 | 29.31 | 29.34 | 29.37 | 29.40 | 29.43 | 29.46 | 29.49 | 29.52 | 29.55 | 29.58 | 29.61 | 29.64 | 29.67 | 29.70 | 29.73 | 29.76 | 29.79 | 29.82 | 29.85 | 29.88 | 29.91 | 29.94 | 29.97 | 30.00 | 30.03 | 30.06 | 30.09 | 30.12 | 30.15 | 30.18 | 30.21 | 30.24 | 30.27 | 30.30 | 30.33 | 30.36 | 30.39 | 30.42 | 30.45 | 30.48 | 30.51 | 30.54 | 30.57 | 30.60 | 30.63 | 30.66 | 30.69 | 30.72 | 30.75 | 30.78 | 30.81 | 30.84 | 30.87 | 30.90 | 30.93 | 30.96 | 30.99 | 31.02 | 31.05 | 31.08 | 31.11 | 31.14 | 31.17 | 31.20 | 31.23 | 31.26 | 31.29 | 31.32 | 31.35 | 31.38 | 31.41 | 31.44 | 31.47 | 31.50 | 31.53 | 31.56 | 31.59 | 31.62 | 31.65 | 31.68 | 31.71 | 31.74 | 31.77 | 31.80 | 31.83 | 31.86 | 31.89 | 31.92 | 31.95 | 31.98 | 32.01 | 32.04 | 32.07 | 32.10 | 32.13 | 32.16 | 32.19 | 32.22 | 32.25 | 32.28 | 32.31 | 32.34 | 32.37 | 32.40 | 32.43 | 32.46 | 32.49 | 32.52 | 32.55 | 32.58 | 32.61 | 32.64 | 32.67 | 32.70 | 32.73 | 32.76 | 32.79 | 32.82 | 32.85 | 32.88 | 32.91 | 32.94 | 32.97 | 33.00 | 33.03 | 33.06 | 33.09 | 33.12 | 33.15 | 33.18 | 33.21 | 33.24 | 33.27 | 33.30 | 33.33 | 33.36 | 33.39 | 33.42 | 33.45 | 33.48 | 33.51 | 33.54 | 33.57 | 33.60 | 33.63 | 33.66 | 33.69 | 33.72 | 33.75 | 33.78 | 33.81 | 33.84 | 33.87 | 33.90 | 33.93 | 33.96 | 33.99 | 34.02 | 34.05 | 34.08 | 34.11 | 34.14 | 34.17 | 34.20 | 34.23 | 34.26 | 34.29 | 34.32 | 34.35 | 34.38 | 34.41 | 34.44 | 34.47 | 34.50 | 34.53 | 34.56 | 34.59 | 34.62 | 34.65 | 34.68 | 34.71 | 34.74 | 34.77 | 34.80 | 34.83 | 34.86 | 34.89 | 34.92 | 34.95 | 34.98 | 35.01 | 35.04 | 35.07 | 35.10 | 35.13 | 35.16 | 35.19 | 35.22 | 35.25 | 35.28 | 35.31 | 35.34 | 35.37 | 35.40 | 35.43 | 35.46 | 35.49 | 35.52 | 35.55 | 35.58 | 35.61 | 35.64 | 35.67 | 35.70 | 35.73 | 35.76 | 35.79 | 35.82 | 35.85 | 35.88 | 35.91 | 35.94 | 35.97 | 36.00 | 36.03 | 36.06 | 36.09 | 36.12 | 36.15 | 36.18 | 36.21 | 36.24 | 36.27 | 36.30 | 36.33 | 36.36 | 36.39 | 36.42 | 36.45 | 36.48 | 36.51 | 36.54 | 36.57 | 36.60 | 36.63 | 36.66 | 36.69 | 36.72 | 36.75 | 36.78 | 36.81 | 36.84 | 36.87 | 36.90 | 36.93 | 36.96 | 36.99 | 37.02 | 37.05 | 37.08 | 37.11 | 37.14 | 37.17 | 37.20 | 37.23 | 37.26 | 37.29 | 37.32 | 37.35 | 37.38 | 37.41 | 37.44 | 37.47 | 37.50 | 37.53 | 37.56 | 37.59 | 37.62 | 37.65 | 37.68 | 37.71 | 37.74 | 37.77 | 37.80 | 37.83 | 37.86 | 37.89 | 37.92 | 37.95 | 37.98 | 38.01 | 38.04 | 38.07 | 38.10 | 38.13 |



The logo for SERCOMM, featuring the word in a bold, blue, sans-serif typeface. The letters are closely spaced, and the 'M' has a distinctive shape with a vertical stroke on its right side.

**SERCOMM**

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