

# FCC Composite Gain Test Report

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### Basic Information

|                  |                               |       |            |
|------------------|-------------------------------|-------|------------|
| EUT Description: | AX3000 Gigabit Wi-Fi 6 Router |       |            |
| Brand Name:      | tp-link                       |       |            |
| Model Name:      | Archer AX56                   |       |            |
| Tested By:       | Yu Sunli                      | Date: | 2025/08/27 |

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# 1 Operation Mode and Antenna Information

## 1.1 EUT Operation Mode

The Archer AX56 is the dual-band wireless router of 6 antennas, of which 2 were 2.4G antennas, 2 were 5G horizontal radiation antennas and 2 were 5G upward-tilt radiation antennas.

## 1.2 Antenna Information

The Antennas are external , the Locations of Antennas are shown below:



Figure 1-1 Locations of Antennas

The Antenna Information was shown below:

Table 1-1 Antenna Information

| Antenna Position | Antenna Type | Connector | Mode of operation |
|------------------|--------------|-----------|-------------------|
| Ant1             | dipole       | Weld      | 2.4G              |
| Ant2             | dipole       | Weld      | 2.4G              |
| Ant3             | dipole       | Weld      | 5G                |
| Ant4             | dipole       | Weld      | 5G                |
| Ant5             | dipole       | Weld      | 5G                |
| Ant6             | dipole       | Weld      | 5G                |

## 1.3 Test Frequency

The Listed frequency of each bands are selected to represent each frequency bands.

Table 1-2 Test Frequency

| Frequency Band(MHz) | Test Frequency(MHz) |
|---------------------|---------------------|
| 2400-2483.5         | 2450                |
| 5150-5250           | 5200                |
| 5250-5350           | 5300                |
| 5470-5725           | 5600                |
| 5725-5850           | 5800                |

## 2 Test System

### 2.1 Test Equipment

Table 2-1Test System

| Equipment                  | Model       | Manufacturer | S/N        | Cali. Interval | Cali. Due Date |
|----------------------------|-------------|--------------|------------|----------------|----------------|
| Chamber                    | Rayzone2800 | GTS          | MY53470435 | 12months       | 2026/04/15     |
| Vector<br>Network Analyzer | E5071C      | Keysight     | MY46315238 | 24months       | 2026/05/27     |

### 2.2 Test Software

Table 2-2 Test Software

| Software       | Version | Function                     |
|----------------|---------|------------------------------|
| GTS MaxSign100 | V2.1    | Passive Antenna Measurements |

## 3 Test Summary

### 3.1 Measurement Environment

This measurement experiment adopted an antenna near-field measurement system, and the diagram of the measurement system was shown in Figure 3-1. The excitation signal was generated by the Keysight E5071C (300kHz-20GHz). Under the control of the central computer, the probe rotated in the  $\theta$  direction, and the EUT rotated in the  $\phi$  direction with the turntable. The probe sampling frame received and collected signals in the near-field range of the EUT. The software system which was controlled by the central computer completed the processing, output and display of the test data.

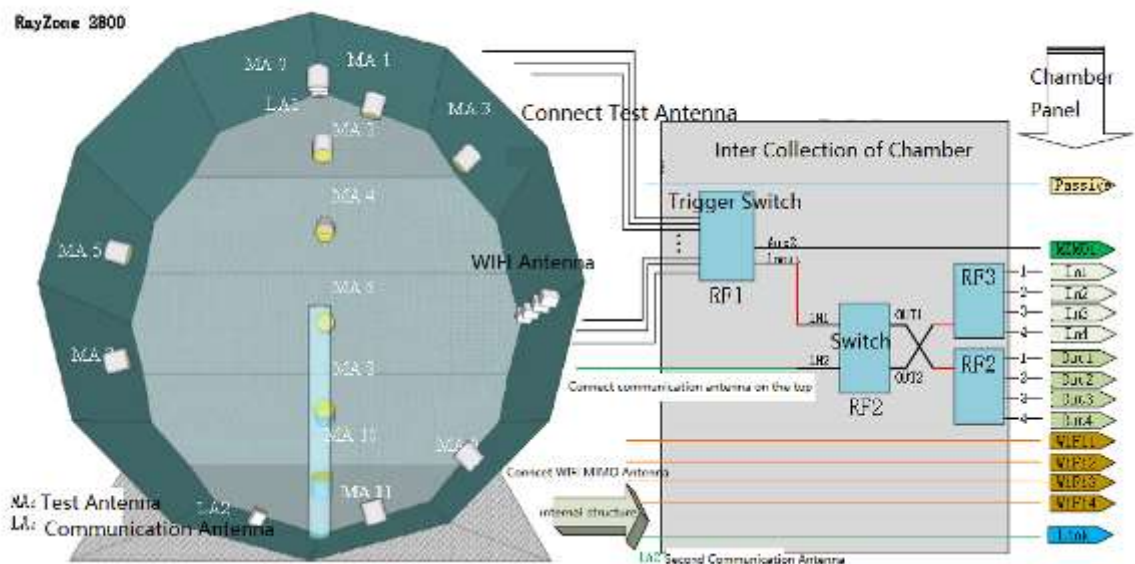


Figure 3-1 Schematic diagram of antenna near-field measurement system

The test site was a full anechoic chamber with a size of 3.0m×3.1m×2.97m, which was built by GTS Rayzone2800. All six surfaces of the anechoic chamber were pasted with absorbing materials. And the chamber was calibrated by the authoritative third-party lab every year. The antenna anechoic chamber measurement system adopted a 13-probe multi-probe system. The probe antennas were evenly distributed on the spherical surface surrounding the EUT, and their operating frequency was 600MHz~8.5GHz.

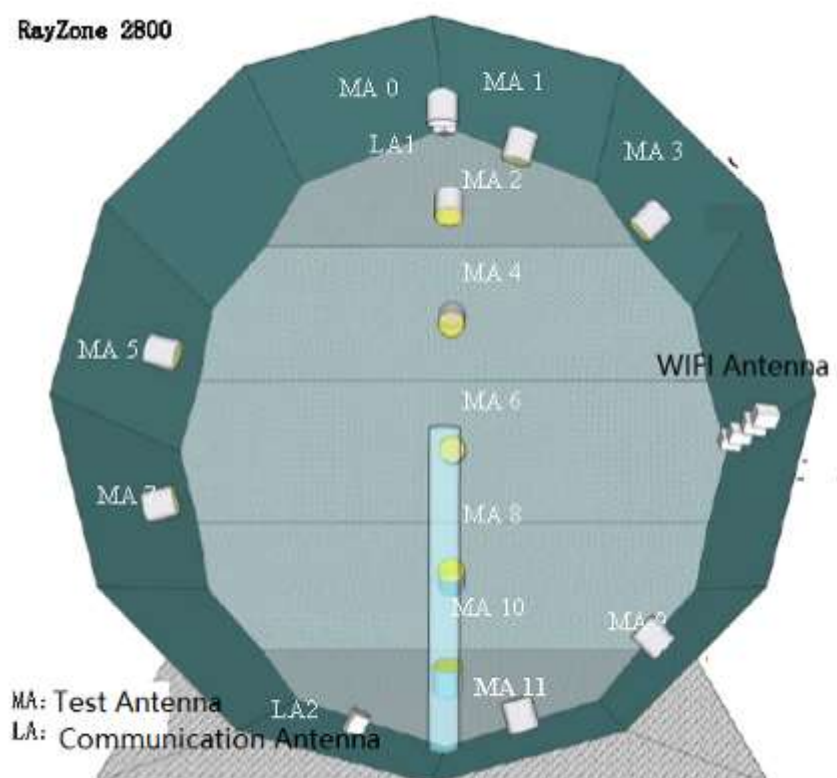


Figure 3-2 Antenna anechoic chamber for near-field measurement

During the measurement, the probe antennas were rotated in the  $\theta$  direction under the control of the probe holder to sample the near-field data at the  $\theta$  angle. At the same time, the EUT rotated with the turntable in the  $\phi$  direction to sample the near field data at the  $\phi$  angle. The system diagram was shown in Figure 3-3. From the sampling results, the EUT's near-field test data of  $\theta$  component,  $\phi$  component and total component could be obtained.

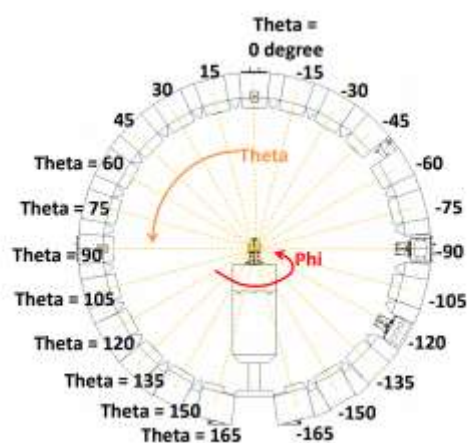


Figure 3-3 System diagram

Before the measurement, calibrated the vector network analyzer, and then connected the input end of each antenna to the output end of the vector network analyzer, and evenly the antennas to be measured. The Calibration information was shown in table 2-1.



Figure 3-4 Antennas measurement diagram

Table 3-1 Calibration information

| Measurement Class | Standard |
|-------------------|----------|
| Cal Type          | 2p/1-2   |
| Cal Kit           | N4691B   |

## 3.2 Measurement Quantity

In this measurement experiment, the Directional Gain was measured at a certain frequency interval within the whole frequency range. The measurement frequency interval of the 2.4G antennas was 10MHz, while the 5G antennas was 50MHz.

## 3.3 Test Method

During the measurement, the probe antennas were rotated in the  $\theta$  direction under the control of the probe holder to sample the near-field data at the  $\theta$  angle. At the same time, the EUT rotated with the turntable in the  $\phi$  direction to sample the near field data at the  $\phi$  angle. The sampling accuracy was  $15^\circ$ . The system diagram was shown in Figure 2-6. From the sampling results, the EUT's near-field test data of  $\theta$  component,  $\phi$  component and total component could be obtained.

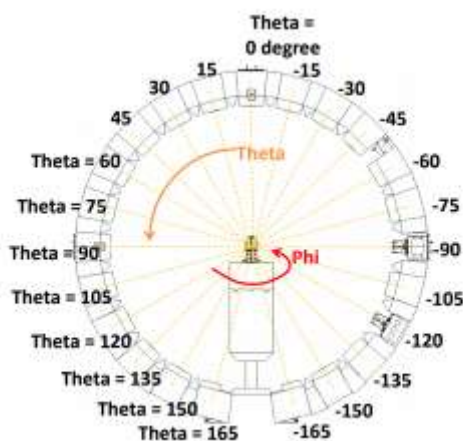


Figure 3-5 Test angle

### 3.4 Directional Gain Calculations

Multiple antennas system, each of which has one of two (or three) polarizations that are orthogonal to one another (i.e., cross polarized), The total gain—including array gain—is computed separately for each of the two (or three) polarizations using the procedures presented in this document. The highest of the total gains shall apply.

Theoretical Directional Gain represented the theoretical value calculated by formula 2-1. As we all know, the effect of array gain must be included in the calculation of overall directional antenna gain for devices that transmit on multiple outputs simultaneously in the same band, in the same or in overlapping frequency ranges. Therefore, in formula 2-1, the directional gain calculation needs to include all directions and all Frequencies and all Polarizations, and then take the maximum value as the final directional gain value. Therefore, the calculation formula of theoretical directional gain value can be modified as formula 2-2

$$\text{Directional Gain} = 10\log \left[ \frac{\sum_{j=1}^{N_{SS}} \left( \sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] \quad (2-1)$$

Where

$N_{SS}$  = the number of independent spatial streams of data;  $N_{SS} = 1$ .

$N_{ANT}$  = the total number of antennas:  $N_{ANT} = 4$  for 2.4G & 5G antennas

$g_{j,k} = 10^{G_k/20}$  if the kth antenna is being fed by spatial stream j, or zero if it is not;

$G_k$  is the gain in dBi of the kth antenna .

$$\text{Directional Gain} = \text{Maximum} \left[ 10\log \left[ \frac{\sum_{j=1}^{N_{SS}} \left( \sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] \right] \quad (2-2)$$

**Maximum** function is the max directional gain overall directions and all frequency all polarizations.

### 3.5 Test Procedure

The calculation method of DG (Directional Gain) in this scheme is summarized as follows:

- 1) The antenna anechoic chamber is used to measure the gain of each antenna, the gain of each antenna at this angle is taken every 15 °to calculate the Directional Gain;
- 2) Use formula below to calculate and the Directional Gain of the system at this angle is obtained

$$\text{Directional Gain} = 10\log \left[ \frac{\sum_{j=1}^{N_{SS}} \left( \sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] \quad (2-3)$$

- 3) For each frequency point, the Directional Gain value under 24 different angles can be obtained, and finally the maximum value is taken as the system Directional Gain value.

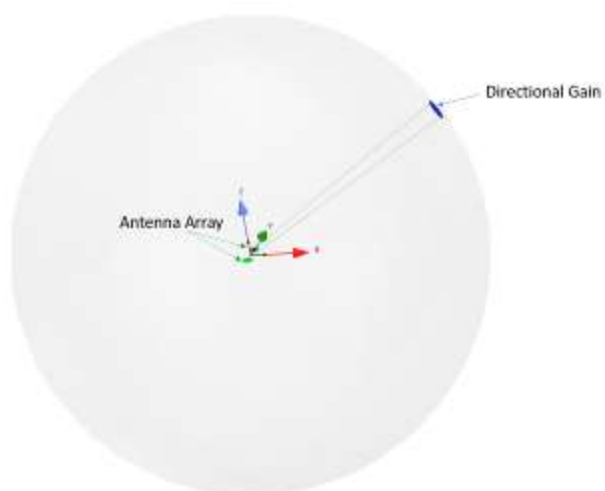


Figure 3-6 Directional Gain Calculation Sketch Map

## 4 Measured Value and Maximum Gain Positions

### 4.1 Antenna Number

The Antennas number for measured in the following section was shown below:

Table 4-1 Antennas number

| Antenna Number | Antenna Position |      |      |
|----------------|------------------|------|------|
|                | 2G               | 5G_1 | 5G_2 |
| Ant1           | Ant1             | Ant3 | Ant5 |
| Ant2           | Ant2             | Ant4 | Ant6 |

### 4.2 2G

#### 4.2.1 DG\_1SS Max Value Position

Table 4-2 DG\_1SS Max Value Position

|                |       |
|----------------|-------|
| Frequency(GHz) | 2.45  |
| Ant1(dBi)      | 4.83  |
| Ant2(dBi)      | 4.67  |
| Polarization   | Theta |
| $\Phi$ (°)     | 120   |
| $\theta$ (°)   | 90    |

#### 4.2.2 DG\_1SS Max Value Position Calculation

Table 4-3 DG\_1SS Max Value Position Calculation

|                                                           |                  |
|-----------------------------------------------------------|------------------|
| Frequency(GHz)                                            | 2.45             |
| Ant1[ $10^{(G/20)}$ ]                                     | $10^{(4.83/20)}$ |
| Ant2[ $10^{(G/20)}$ ]                                     | $10^{(4.67/20)}$ |
| Ant1[ $10^{(G/20)}$ ] value                               | 1.744            |
| Ant2[ $10^{(G/20)}$ ] value                               | 1.712            |
| Sum of Ants Value(Antmax)                                 | 3.456            |
| DG[ $10 * \log(\text{Antmax}^2 / N_{\text{ant}})$ ] (dBi) | 7.76             |

#### 4.2.3 DG\_2SS Max Value Position

Table 4-4 DG\_3SS Max Value Position

|                |      |
|----------------|------|
| Frequency(GHz) | 2.45 |
| Ant1(dBi)      | 4.83 |

|                                |       |
|--------------------------------|-------|
| <b>Ant2(dBi)</b>               | 4.67  |
| <b>Polarization</b>            | Theta |
| <b><math>\Phi</math> (°)</b>   | 120   |
| <b><math>\theta</math> (°)</b> | 90    |

## 4.2.4 DG\_2SS Max Value Position Calculation

Table 4-5 DG\_3SS Max Value Position Calculation

|                                         |                          |
|-----------------------------------------|--------------------------|
| <b>Frequency(GHz)</b>                   | 2.45                     |
| <b>Ant1[10<sup>^(G/10)</sup>]</b>       | 10 <sup>^(4.83/10)</sup> |
| <b>Ant2[10<sup>^(G/10)</sup>]</b>       | 10 <sup>^(4.67/10)</sup> |
| <b>Ant1[10<sup>^(G/10)</sup>] value</b> | 3.041                    |
| <b>Ant2[10<sup>^(G/10)</sup>] value</b> | 2.931                    |
| <b>Sum of Ants Value(Antmax)</b>        | 5.972                    |
| <b>DG[10*Log(Antmax/Nant)] (dBi)</b>    | 4.75                     |

## 4.3 5G\_1

### 4.3.1 DG\_1SS Max Value Position

Table 4-6 DG\_1SS Max Value Position

|                                |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|
| <b>Frequency(GHz)</b>          | 5.20  | 5.30  | 5.60  | 5.80  |
| <b>Ant1(dBi)</b>               | 4.34  | 4.35  | 4.11  | 4.09  |
| <b>Ant2(dBi)</b>               | 5.2   | 5.11  | 5.2   | 5.29  |
| <b>Polarization</b>            | Theta | Theta | Theta | Theta |
| <b><math>\Phi</math> (°)</b>   | 45    | 60    | 60    | 60    |
| <b><math>\theta</math> (°)</b> | 105   | 90    | 90    | 90    |

### 4.3.2 DG\_1SS Max Value Position Calculation

Table 4-7 DG\_1SS Max Value Position Calculation

|                                                  |                          |                          |                          |                          |
|--------------------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>Frequency(GHz)</b>                            | 5.20                     | 5.30                     | 5.60                     | 5.80                     |
| <b>Ant1[10<sup>^(G/20)</sup>]</b>                | 10 <sup>^(4.34/20)</sup> | 10 <sup>^(4.35/20)</sup> | 10 <sup>^(4.11/20)</sup> | 10 <sup>^(4.09/20)</sup> |
| <b>Ant2[10<sup>^(G/20)</sup>]</b>                | 10 <sup>^(5.20/20)</sup> | 10 <sup>^(5.11/20)</sup> | 10 <sup>^(5.20/20)</sup> | 10 <sup>^(5.29/20)</sup> |
| <b>Ant1[10<sup>^(G/20)</sup>] value</b>          | 1.648                    | 1.65                     | 1.605                    | 1.601                    |
| <b>Ant2[10<sup>^(G/20)</sup>] value</b>          | 1.82                     | 1.801                    | 1.82                     | 1.839                    |
| <b>Sum of Ants Value(Antmax)</b>                 | 3.468                    | 3.451                    | 3.425                    | 3.44                     |
| <b>DG[10*Log(Antmax<sup>2</sup>/Nant)] (dBi)</b> | 7.79                     | 7.75                     | 7.68                     | 7.72                     |

### 4.3.3 DG\_2SS Max Value Position

Table 4-8 DG\_2SS Max Value Position

| Frequency(GHz) | 5.20  | 5.30  | 5.60  | 5.80  |
|----------------|-------|-------|-------|-------|
| Ant1(dBi)      | 4.34  | 4.35  | 4.11  | 4.09  |
| Ant2(dBi)      | 5.2   | 5.11  | 5.2   | 5.29  |
| Polarization   | Theta | Theta | Theta | Theta |
| $\Phi$ (°)     | 45    | 60    | 60    | 60    |
| $\theta$ (°)   | 105   | 90    | 90    | 90    |

### 4.3.4 DG\_2SS Max Value Position Calculation

Table 4-9 DG\_2SS Max Value Position Calculation

| Frequency(GHz)                | 5.20             | 5.30             | 5.60             | 5.80             |
|-------------------------------|------------------|------------------|------------------|------------------|
| Ant1[10^(G/10)]               | $10^{(4.34/10)}$ | $10^{(4.35/10)}$ | $10^{(4.11/10)}$ | $10^{(4.09/10)}$ |
| Ant2[10^(G/10)]               | $10^{(5.20/10)}$ | $10^{(5.11/10)}$ | $10^{(5.20/10)}$ | $10^{(5.29/10)}$ |
| Ant1[10^(G/10)] value         | 2.716            | 2.723            | 2.576            | 2.564            |
| Ant2[10^(G/10)] value         | 3.311            | 3.243            | 3.311            | 3.381            |
| Sum of Ants Value(Antmax)     | 6.028            | 5.966            | 5.888            | 5.945            |
| DG[10*Log(Antmax/Nant)] (dBi) | 4.79             | 4.75             | 4.69             | 4.73             |

## 4.4 5G\_2

### 4.4.1 DG\_1SS Max Value Position

Table 4-10 DG\_1SS Max Value Position

| Frequency(GHz) | 5.20  | 5.30  | 5.60  | 5.80  |
|----------------|-------|-------|-------|-------|
| Ant1(dBi)      | 3.54  | 3.54  | 3.63  | 3.75  |
| Ant2(dBi)      | 3.32  | 3.32  | 1.91  | 2.22  |
| Polarization   | Theta | Theta | Theta | Theta |
| $\Phi$ (°)     | 240   | 240   | 345   | 165   |
| $\theta$ (°)   | 75    | 75    | 45    | 45    |

### 4.4.2 DG\_1SS Max Value Position Calculation

Table 4-11 DG\_1SS Max Value Position Calculation

| Frequency(GHz)  | 5.20             | 5.30             | 5.60             | 5.80             |
|-----------------|------------------|------------------|------------------|------------------|
| Ant1[10^(G/20)] | $10^{(3.54/20)}$ | $10^{(3.54/20)}$ | $10^{(3.63/20)}$ | $10^{(3.75/20)}$ |
| Ant2[10^(G/20)] | $10^{(3.32/20)}$ | $10^{(3.32/20)}$ | $10^{(1.91/20)}$ | $10^{(2.22/20)}$ |

|                                             |       |       |       |       |
|---------------------------------------------|-------|-------|-------|-------|
| Ant1[10 <sup>^(G/20)</sup> ] value          | 1.503 | 1.503 | 1.519 | 1.54  |
| Ant2[10 <sup>^(G/20)</sup> ] value          | 1.466 | 1.466 | 1.246 | 1.291 |
| Sum of Ants Value(Antmax)                   | 2.969 | 2.969 | 2.765 | 2.831 |
| DG[10*Log(Antmax <sup>2</sup> /Nant)] (dBi) | 6.44  | 6.44  | 5.82  | 6.03  |

### 4.4.3 DG\_2SS Max Value Position

Table 4-12 DG\_2SS Max Value Position

|                |       |       |       |       |
|----------------|-------|-------|-------|-------|
| Frequency(GHz) | 5.20  | 5.30  | 5.60  | 5.80  |
| Ant1(dBi)      | 3.54  | 3.54  | 3.63  | 3.75  |
| Ant2(dBi)      | 3.32  | 3.32  | 1.91  | 2.22  |
| Polarization   | Theta | Theta | Theta | Theta |
| Φ (°)          | 240   | 240   | 345   | 165   |
| θ (°)          | 75    | 75    | 45    | 45    |

### 4.4.4 DG\_2SS Max Value Position Calculation

Table 4-13 DG\_2SS Max Value Position Calculation

|                                    |                          |                          |                          |                          |
|------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Frequency(GHz)                     | 5.20                     | 5.30                     | 5.60                     | 5.80                     |
| Ant1[10 <sup>^(G/10)</sup> ]       | 10 <sup>^(3.54/10)</sup> | 10 <sup>^(3.54/10)</sup> | 10 <sup>^(3.63/10)</sup> | 10 <sup>^(3.75/10)</sup> |
| Ant2[10 <sup>^(G/10)</sup> ]       | 10 <sup>^(3.32/10)</sup> | 10 <sup>^(3.32/10)</sup> | 10 <sup>^(1.91/10)</sup> | 10 <sup>^(2.22/10)</sup> |
| Ant1[10 <sup>^(G/10)</sup> ] value | 2.259                    | 2.259                    | 2.307                    | 2.371                    |
| Ant2[10 <sup>^(G/10)</sup> ] value | 2.148                    | 2.148                    | 1.552                    | 1.667                    |
| Sum of Ants Value(Antmax)          | 4.407                    | 4.407                    | 3.859                    | 4.039                    |
| DG[10*Log(Antmax/Nant)] (dBi)      | 3.43                     | 3.43                     | 2.85                     | 3.05                     |

## 5 Test and Calculate Result

### 5.1 Antenna Test Result

Table 5-1 Antenna Test Result

| Frequency(GHz)                      | 2.45         | 5G_1         |              |              |              |
|-------------------------------------|--------------|--------------|--------------|--------------|--------------|
|                                     |              | 5.20         | 5.30         | 5.60         | 5.80         |
| Ant1 MaxGain(dBi)                   | 5.34dBi      | 5.39dBi      | 5.70dBi      | 4.65dBi      | 4.16dBi      |
| Ant2 MaxGain(dBi)                   | 5.69dBi      | 5.60dBi      | 5.11dBi      | 6.87dBi      | 5.70dBi      |
| Ant1 Polarization/<br>Φ (°) / θ (°) | Theta/150/90 | Theta/255/90 | Theta/120/90 | Theta/120/90 | Theta/120/90 |
| Ant2 Polarization/<br>Φ (°) / θ (°) | Theta/75/90  | Theta/15/90  | Theta/60/90  | Theta/0/90   | Theta/0/90   |
| Max Gain(dBi)                       | 5.69dBi      | 5.60dBi      | 5.70dBi      | 6.87dBi      | 5.70dBi      |

| Frequency(GHz)                      | 5G_2         |              |              |              |
|-------------------------------------|--------------|--------------|--------------|--------------|
|                                     | 5.20         | 5.30         | 5.60         | 5.80         |
| Ant1 MaxGain(dBi)                   | 4.16dBi      | 4.14dBi      | 3.86dBi      | 3.75dBi      |
| Ant2 MaxGain(dBi)                   | 4.49dBi      | 4.38dBi      | 4.39dBi      | 3.64dBi      |
| Ant1 Polarization/<br>Φ (°) / θ (°) | Theta/255/75 | Theta/255/75 | Theta/180/60 | Theta/165/45 |
| Ant2 Polarization/<br>Φ (°) / θ (°) | Theta/90/75  | Theta/30/75  | Theta/90/45  | Theta/15/60  |
| Max Gain(dBi)                       | 4.49dBi      | 4.38dBi      | 4.39dBi      | 3.75dBi      |

## 5.2 Directional Gain Calculate Result

Table 5-2Test & Calculate Result

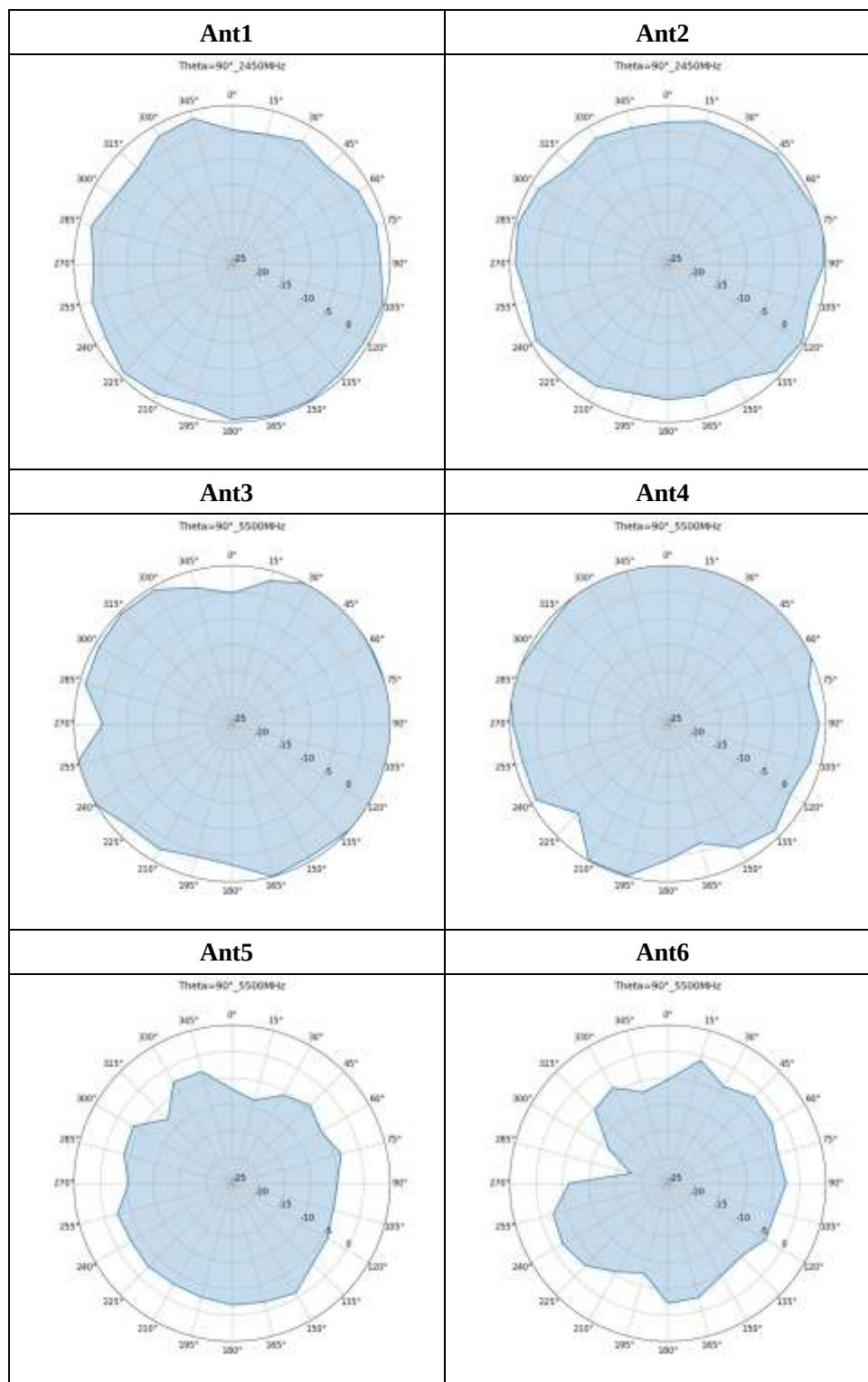
| Frequency Band(MHz) |                 | Max Antenna Gain | Max Directional Gain | NSS | Polarization/ Φ<br>(°) / θ (°) |
|---------------------|-----------------|------------------|----------------------|-----|--------------------------------|
| 2400-2483.5(2450)   |                 | 5.69dBi          | 7.76dBi              | 1   | Theta/120/90                   |
| 5G_1                | 5150-5250(5200) | 5.60dBi          | 7.79dBi              | 1   | Theta/45/105                   |
|                     | 5250-5350(5300) | 5.70dBi          | 7.75dBi              | 1   | Theta/60/90                    |
|                     | 5470-5725(5600) | 6.87dBi          | 7.68dBi              | 1   | Theta/60/90                    |
|                     | 5725-5850(5800) | 5.70dBi          | 7.72dBi              | 1   | Theta/60/90                    |
| 5G_2                | 5150-5250(5200) | 4.49dBi          | 6.44dBi              | 1   | Theta/240/75                   |
|                     | 5250-5350(5300) | 4.38dBi          | 6.44dBi              | 1   | Theta/240/75                   |
|                     | 5470-5725(5600) | 4.39dBi          | 5.82dBi              | 1   | Theta/345/45                   |
|                     | 5725-5850(5800) | 3.75dBi          | 6.03dBi              | 1   | Theta/165/45                   |

Table 5-3Test & Calculate Result

| Frequency Band(MHz) |                 | Max Antenna Gain | Max Directional Gain | NSS | Polarization/ Φ<br>(°) / θ (°) |
|---------------------|-----------------|------------------|----------------------|-----|--------------------------------|
| 2400-2483.5(2450)   |                 | 5.69dBi          | 4.75dBi              | 2   | Theta/120/90                   |
| 5G_1                | 5150-5250(5200) | 5.60dBi          | 4.79dBi              | 2   | Theta/45/105                   |
|                     | 5250-5350(5300) | 5.70dBi          | 4.75dBi              | 2   | Theta/60/90                    |
|                     | 5470-5725(5600) | 6.87dBi          | 4.69dBi              | 2   | Theta/60/90                    |
|                     | 5725-5850(5800) | 5.70dBi          | 4.73dBi              | 2   | Theta/60/90                    |
| 5G_2                | 5150-5250(5200) | 4.49dBi          | 3.43dBi              | 2   | Theta/240/75                   |
|                     | 5250-5350(5300) | 4.38dBi          | 3.43dBi              | 2   | Theta/240/75                   |
|                     | 5470-5725(5600) | 4.39dBi          | 2.85dBi              | 2   | Theta/345/45                   |
|                     | 5725-5850(5800) | 3.75dBi          | 3.05dBi              | 2   | Theta/165/45                   |

## 6 Test Pattern

### 6.1 Antenna Pattern



## 7 Test Pattern

| Ant1      |        |        |        |        |        |       |      |       |       |        |        |        |        |
|-----------|--------|--------|--------|--------|--------|-------|------|-------|-------|--------|--------|--------|--------|
| Freq      | 2450   |        |        |        |        |       |      |       |       |        |        |        |        |
| Phi\Theta | 0      | 15     | 30     | 45     | 60     | 75    | 90   | 105   | 120   | 135    | 150    | 165    | 180    |
| 0         | -14.18 | -13.17 | -16.41 | -13.14 | -4.97  | 0.59  | 1.92 | 0.98  | -2.65 | -8.6   | -9.5   | -11.52 | -15.37 |
| 15        | -14.59 | -15.99 | -17.43 | -15.11 | -7.13  | 0.69  | 3.04 | 2.39  | -1.15 | -7.27  | -11.73 | -12.46 | -15.37 |
| 30        | -14.66 | -18.46 | -14.74 | -16.42 | -6.84  | 0.38  | 2.81 | 1.64  | -1.43 | -5.46  | -11.66 | -14.31 | -15.37 |
| 45        | -14.38 | -18.25 | -13.35 | -18.17 | -4.83  | 1.75  | 3.63 | 0.82  | -2.19 | -3.74  | -8.15  | -15.37 | -15.37 |
| 60        | -14.2  | -17.21 | -13.05 | -13.55 | -3.88  | 2.32  | 4.1  | 1.63  | -1.46 | -3.75  | -6.91  | -14.25 | -15.37 |
| 75        | -14.61 | -17.61 | -13.97 | -12.09 | -2.15  | 3.53  | 5.57 | 3.31  | -2.14 | -4.89  | -7.16  | -11.87 | -15.37 |
| 90        | -14.76 | -18.82 | -14.8  | -10.95 | -3.43  | 3.1   | 3.85 | 1.15  | -8.28 | -7.94  | -10.38 | -11.47 | -15.37 |
| 105       | -14.1  | -18.58 | -12.93 | -7.71  | -2.69  | 3.12  | 3.31 | 0.1   | -2.98 | -4.16  | -10.23 | -13.21 | -15.37 |
| 120       | -13.59 | -16.94 | -10.38 | -4.92  | -0.63  | 3.81  | 4.67 | 3.34  | -0.56 | -4     | -9.35  | -14.17 | -15.37 |
| 135       | -13.63 | -15.28 | -8.59  | -3.09  | -0.65  | 2.65  | 3.42 | 1.5   | -4.24 | -8.72  | -8.58  | -10.77 | -15.37 |
| 150       | -13.86 | -13.37 | -6.87  | -2.38  | -1.64  | 0.9   | 0.65 | -0.61 | -4.28 | -5.47  | -5.63  | -7.12  | -15.37 |
| 165       | -14.31 | -11.68 | -5.3   | -2.32  | -4.85  | -1.49 | 1.93 | 1.03  | -3.06 | -4.44  | -4.22  | -5.03  | -15.37 |
| 180       | -14.42 | -10.78 | -4.63  | -2.92  | -8.51  | -0.43 | 1.17 | -1.79 | -6.69 | -9.4   | -4.95  | -4.23  | -15.37 |
| 195       | -14.02 | -10.59 | -4.89  | -4.06  | -9.3   | -2.65 | 0.73 | 0.56  | -4.84 | -10.37 | -8.05  | -4.25  | -15.37 |
| 210       | -13.65 | -11.67 | -5.07  | -3.39  | -10.32 | -1.68 | 1.94 | 1.3   | -1.98 | -7.81  | -12.88 | -4.64  | -15.37 |
| 225       | -13.66 | -13.09 | -5.23  | -2.89  | -9.62  | -0.19 | 2.17 | 1.02  | -3.3  | -9.8   | -10.93 | -5.43  | -15.37 |
| 240       | -13.71 | -13.68 | -6.58  | -5.06  | -7.28  | 1.77  | 4.3  | 2.18  | -6.07 | -16.93 | -10.86 | -6.9   | -15.37 |
| 255       | -13.7  | -13.55 | -9.34  | -9.57  | -8.89  | 1.33  | 3.02 | 0.48  | -5.52 | -10.51 | -11.89 | -9.14  | -15.37 |
| 270       | -13.87 | -12.34 | -11.41 | -13.4  | -6.75  | 1.81  | 3.35 | 0.79  | -3    | -5.09  | -10.24 | -9.9   | -15.37 |
| 285       | -14.5  | -10.92 | -10.01 | -12.14 | -5.05  | 3.59  | 4.58 | 1.91  | -1.56 | -2.53  | -9.74  | -9.05  | -15.37 |
| 300       | -14.74 | -10    | -8.9   | -8.65  | -8.27  | 1.8   | 3.81 | 2.47  | -1.37 | -2.38  | -11.93 | -8.28  | -15.37 |
| 315       | -14.41 | -9.7   | -8.96  | -7.48  | -11.89 | -3.12 | 0.62 | -0.23 | -5.24 | -7.15  | -12.68 | -8.15  | -15.37 |
| 330       | -14.03 | -9.87  | -10.37 | -7.45  | -9.06  | -1.37 | 1.75 | 0.2   | -4.48 | -10.07 | -9.39  | -8.76  | -15.37 |
| 345       | -13.97 | -10.93 | -13.14 | -9.65  | -7.17  | -1.37 | 1.65 | 1.89  | -1.42 | -5.4   | -7.71  | -10.18 | -15.37 |

| Ant2      |        |        |        |        |        |       |      |       |       |       |        |        |        |
|-----------|--------|--------|--------|--------|--------|-------|------|-------|-------|-------|--------|--------|--------|
| Freq      | 2410   |        |        |        |        |       |      |       |       |       |        |        |        |
| Phi\Theta | 0      | 15     | 30     | 45     | 60     | 75    | 90   | 105   | 120   | 135   | 150    | 165    | 180    |
| 0         | -13.47 | -14.37 | -7.43  | -3.98  | -10.74 | -3.55 | 0.06 | 1.12  | -1.54 | -6.66 | -9.38  | -9.91  | -17.94 |
| 15        | -13.53 | -14.25 | -8.49  | -3.51  | -5.47  | -2.65 | -0.2 | -2.45 | -4.87 | -6.42 | -8.45  | -9.45  | -17.94 |
| 30        | -13.5  | -14.59 | -9.4   | -4.3   | -3.18  | -0.09 | 1.67 | 0.95  | -3.4  | -5.42 | -6.35  | -8.82  | -17.94 |
| 45        | -13.95 | -14.63 | -9.46  | -5.89  | -2.8   | 0.52  | 1.26 | 1.23  | -2.02 | -2.61 | -4.77  | -8.65  | -17.94 |
| 60        | -14.13 | -12.69 | -9.52  | -9.81  | -4.56  | 1.53  | 2.29 | 0.94  | -2.53 | -2.19 | -5.51  | -9.73  | -17.94 |
| 75        | -13.77 | -11.26 | -9.99  | -13.54 | -5.35  | 1.56  | 2.87 | 1.44  | -4.09 | -4.77 | -6.47  | -11.32 | -17.94 |
| 90        | -13.74 | -11.39 | -10.28 | -9.74  | -3.86  | 2.6   | 3.94 | 2.06  | -2.79 | -8.61 | -8.53  | -13.1  | -17.94 |
| 105       | -13.49 | -12.06 | -11.28 | -9.55  | -2.64  | 3.25  | 4.35 | 2.88  | -1.56 | -7.15 | -10.96 | -16.66 | -17.94 |

|     |        |        |        |        |       |      |      |       |       |        |        |        |        |
|-----|--------|--------|--------|--------|-------|------|------|-------|-------|--------|--------|--------|--------|
| 120 | -12.95 | -12.74 | -13.4  | -8.55  | -1.83 | 3.7  | 4.83 | 3.54  | -1.38 | -5.02  | -8.45  | -17.94 | -17.94 |
| 135 | -12.52 | -13.7  | -13.81 | -9.75  | -3.68 | 2.71 | 4.24 | 3.25  | -2.5  | -3.98  | -5.8   | -16.5  | -17.94 |
| 150 | -12.32 | -14.99 | -13.15 | -11.59 | -5.04 | 2.52 | 4.38 | 3.24  | -3.32 | -4.46  | -4.95  | -15.17 | -17.94 |
| 165 | -12.98 | -16.46 | -13.8  | -13.09 | -5.44 | 2.28 | 4.49 | 3.09  | -2.57 | -5.69  | -6.32  | -12.18 | -17.94 |
| 180 | -13.97 | -15.71 | -16.52 | -15.36 | -5.95 | 2.04 | 3.76 | 2.25  | -4.6  | -8.67  | -11.71 | -9.82  | -17.94 |
| 195 | -14.16 | -13.72 | -19.23 | -17.9  | -8.71 | 0.05 | 2.41 | -0.14 | -8.99 | -10.15 | -14.44 | -8.37  | -17.94 |
| 210 | -13.71 | -12.7  | -14.49 | -9.56  | -5.46 | 1.46 | 3.78 | 2.43  | -1.96 | -3.98  | -9.03  | -6.63  | -17.94 |
| 225 | -12.89 | -12.36 | -11.37 | -6.89  | -4.38 | 2.57 | 4.21 | 2.63  | -2.06 | -3.1   | -7.74  | -5.12  | -17.94 |
| 240 | -12.03 | -12.27 | -10.21 | -9.7   | -5.15 | 1.94 | 2.92 | 0.12  | -8.38 | -8.88  | -7.24  | -4.49  | -17.94 |
| 255 | -12.54 | -12.1  | -9.78  | -13.18 | -5.74 | 1.67 | 2.25 | -0.73 | -6.43 | -10.82 | -6.74  | -4.67  | -17.94 |
| 270 | -13.69 | -12.58 | -9.37  | -14.33 | -6.59 | 0.36 | 2.67 | 1.12  | -5.63 | -15.56 | -8.1   | -5.93  | -17.94 |
| 285 | -14.2  | -12.73 | -7.99  | -9.79  | -5.38 | 1.36 | 3.04 | 1.38  | -3.11 | -8.62  | -10.37 | -8.59  | -17.94 |
| 300 | -14.38 | -12.08 | -7.27  | -7.63  | -5.06 | 0.66 | 1.28 | 0.77  | -1.89 | -6.12  | -11.38 | -11.67 | -17.94 |
| 315 | -14.47 | -12.3  | -7.5   | -7.39  | -5.33 | 0.7  | 1.07 | 0.8   | -1.61 | -6.79  | -12.16 | -13.27 | -17.94 |
| 330 | -13.7  | -13.1  | -7.48  | -7.85  | -8.32 | 0.79 | 2.49 | 1.54  | -1.69 | -7.29  | -13.5  | -13.89 | -17.94 |
| 345 | -13.25 | -14.05 | -7.1   | -6.12  | -13.1 | -0.1 | 2.96 | 2.95  | -0.82 | -8.08  | -12.32 | -12.05 | -17.94 |

| 2450MHz Composite Gain (1SS) |        |        |       |        |       |      |      |      |       |       |       |        |        |
|------------------------------|--------|--------|-------|--------|-------|------|------|------|-------|-------|-------|--------|--------|
| Freq                         | 2450   |        |       |        |       |      |      |      |       |       |       |        |        |
| Phi\Theta                    | 0      | 15     | 30    | 45     | 60    | 75   | 90   | 105  | 120   | 135   | 150   | 165    | 180    |
| 0                            | -10.81 | -10.74 | -7.8  | -4.39  | -4.37 | 1.77 | 4.05 | 4.06 | 0.93  | -4.57 | -6.43 | -7.67  | -13.55 |
| 15                           | -11.03 | -12.07 | -8.85 | -4.49  | -3.25 | 2.19 | 4.58 | 3.31 | 0.2   | -3.82 | -6.93 | -7.81  | -13.55 |
| 30                           | -11.05 | -13.3  | -8.66 | -5.39  | -1.81 | 3.16 | 5.27 | 4.31 | 0.65  | -2.43 | -5.6  | -8.13  | -13.55 |
| 45                           | -11.15 | -13.24 | -8.18 | -7.01  | -0.75 | 4.17 | 5.54 | 4.04 | 0.91  | -0.15 | -3.29 | -8.37  | -13.55 |
| 60                           | -11.15 | -11.65 | -8.1  | -8.47  | -1.2  | 4.94 | 6.25 | 4.3  | 1.03  | 0.08  | -3.17 | -8.69  | -13.55 |
| 75                           | -11.17 | -10.86 | -8.74 | -9.77  | -0.59 | 5.61 | 7.33 | 5.44 | -0.05 | -1.82 | -3.8  | -8.58  | -13.55 |
| 90                           | -11.22 | -11.32 | -9.24 | -7.31  | -0.63 | 5.86 | 6.91 | 4.63 | -2.1  | -5.26 | -6.4  | -9.24  | -13.55 |
| 105                          | -10.78 | -11.71 | -9.06 | -5.57  | 0.35  | 6.2  | 6.86 | 4.61 | 0.77  | -2.52 | -7.58 | -11.75 | -13.55 |
| 120                          | -10.25 | -11.58 | -8.75 | -3.54  | 1.8   | 6.77 | 7.76 | 6.45 | 2.05  | -1.48 | -5.88 | -12.84 | -13.55 |
| 135                          | -10.05 | -11.44 | -7.8  | -2.79  | 0.98  | 5.69 | 6.85 | 5.43 | -0.32 | -3.02 | -4.07 | -10.16 | -13.55 |
| 150                          | -10.05 | -11.13 | -6.44 | -2.81  | -0.16 | 4.76 | 5.72 | 4.54 | -0.78 | -1.94 | -2.27 | -7.23  | -13.55 |
| 165                          | -10.61 | -10.73 | -5.54 | -3.12  | -2.13 | 3.61 | 6.31 | 5.13 | 0.2   | -2.03 | -2.2  | -4.88  | -13.55 |
| 180                          | -11.18 | -9.89  | -5.67 | -4.07  | -4.13 | 3.9  | 5.57 | 3.47 | -2.57 | -6.02 | -4.68 | -3.57  | -13.55 |
| 195                          | -11.08 | -9     | -6.38 | -5.46  | -5.99 | 1.81 | 4.62 | 3.23 | -3.66 | -7.25 | -7.66 | -3.06  | -13.55 |
| 210                          | -10.67 | -9.16  | -5.55 | -2.93  | -4.54 | 3.04 | 5.92 | 4.89 | 1.04  | -2.68 | -7.73 | -2.57  | -13.55 |
| 225                          | -10.26 | -9.71  | -4.76 | -1.65  | -3.6  | 4.31 | 6.26 | 4.87 | 0.35  | -2.81 | -6.18 | -2.26  | -13.55 |
| 240                          | -9.82  | -9.94  | -5.2  | -4.06  | -3.14 | 4.87 | 6.65 | 4.22 | -4.14 | -8.99 | -5.85 | -2.6   | -13.55 |
| 255                          | -10.09 | -9.78  | -6.55 | -8.18  | -4.16 | 4.51 | 5.65 | 2.91 | -2.95 | -7.65 | -5.93 | -3.61  | -13.55 |
| 270                          | -10.77 | -9.45  | -7.32 | -10.84 | -3.66 | 4.13 | 6.03 | 3.97 | -1.21 | -5.82 | -6.09 | -4.68  | -13.55 |
| 285                          | -11.34 | -8.77  | -5.93 | -7.88  | -2.2  | 5.56 | 6.85 | 4.66 | 0.71  | -2.04 | -7.04 | -5.81  | -13.55 |
| 300                          | -11.55 | -7.97  | -5.04 | -5.11  | -3.51 | 4.26 | 5.65 | 4.67 | 1.38  | -1.04 | -8.64 | -6.8   | -13.55 |
| 315                          | -11.43 | -7.89  | -5.19 | -4.42  | -4.99 | 2.01 | 3.86 | 3.31 | -0.23 | -3.96 | -9.41 | -7.33  | -13.55 |

|     |        |       |       |       |       |      |      |      |      |       |       |       |        |
|-----|--------|-------|-------|-------|-------|------|------|------|------|-------|-------|-------|--------|
| 330 | -10.85 | -8.33 | -5.8  | -4.64 | -5.67 | 2.79 | 5.14 | 3.91 | 0.04 | -5.56 | -8.19 | -7.94 | -13.55 |
| 345 | -10.59 | -9.34 | -6.59 | -4.7  | -6.63 | 2.3  | 5.34 | 5.45 | 1.9  | -3.63 | -6.7  | -8.05 | -13.55 |

| 2450MHz Composite Gain (2SS) |        |        |        |        |       |       |      |       |       |        |        |        |        |
|------------------------------|--------|--------|--------|--------|-------|-------|------|-------|-------|--------|--------|--------|--------|
| Freq                         | 2450   |        |        |        |       |       |      |       |       |        |        |        |        |
| Phi\Theta                    | 0      | 15     | 30     | 45     | 60    | 75    | 90   | 105   | 120   | 135    | 150    | 165    | 180    |
| 0                            | -13.81 | -13.73 | -9.92  | -6.49  | -6.96 | -1    | 1.09 | 1.05  | -2.06 | -7.52  | -9.44  | -10.64 | -16.47 |
| 15                           | -14.03 | -15.03 | -10.98 | -6.23  | -6.22 | -0.67 | 1.72 | 0.61  | -2.62 | -6.82  | -9.79  | -10.7  | -16.47 |
| 30                           | -14.04 | -16.11 | -11.3  | -7.05  | -4.64 | 0.15  | 2.28 | 1.31  | -2.3  | -5.44  | -8.24  | -10.75 | -16.47 |
| 45                           | -14.16 | -16.07 | -10.98 | -8.65  | -3.7  | 1.18  | 2.6  | 1.03  | -2.1  | -3.14  | -6.14  | -10.82 | -16.47 |
| 60                           | -14.16 | -14.39 | -10.94 | -11.29 | -4.21 | 1.94  | 3.29 | 1.3   | -1.96 | -2.9   | -6.15  | -11.43 | -16.47 |
| 75                           | -14.17 | -13.37 | -11.54 | -12.75 | -3.46 | 2.66  | 4.43 | 2.47  | -3.01 | -4.83  | -6.8   | -11.59 | -16.47 |
| 90                           | -14.22 | -13.68 | -11.98 | -10.3  | -3.64 | 2.86  | 3.9  | 1.63  | -4.72 | -8.26  | -9.36  | -12.21 | -16.47 |
| 105                          | -13.78 | -14.2  | -12.03 | -8.53  | -2.66 | 3.19  | 3.86 | 1.71  | -2.21 | -5.4   | -10.58 | -14.6  | -16.47 |
| 120                          | -13.26 | -14.35 | -11.63 | -6.37  | -1.19 | 3.76  | 4.75 | 3.44  | -0.95 | -4.48  | -8.88  | -15.66 | -16.47 |
| 135                          | -13.04 | -14.42 | -10.46 | -5.25  | -1.91 | 2.68  | 3.85 | 2.46  | -3.28 | -5.73  | -6.97  | -12.75 | -16.47 |
| 150                          | -13.02 | -14.1  | -8.96  | -4.9   | -3.02 | 1.79  | 2.9  | 1.73  | -3.77 | -4.94  | -5.28  | -9.5   | -16.47 |
| 165                          | -13.59 | -13.44 | -7.74  | -4.98  | -5.13 | 0.79  | 3.4  | 2.18  | -2.81 | -5.02  | -5.14  | -7.27  | -16.47 |
| 180                          | -14.19 | -12.58 | -7.37  | -5.69  | -7.04 | 0.98  | 2.66 | 0.68  | -5.52 | -9.02  | -7.13  | -6.18  | -16.47 |
| 195                          | -14.09 | -11.88 | -7.74  | -6.89  | -8.99 | -1.09 | 1.65 | 0.22  | -6.44 | -10.26 | -10.16 | -5.84  | -16.47 |
| 210                          | -13.68 | -12.15 | -7.61  | -5.46  | -7.24 | 0.17  | 2.96 | 1.9   | -1.97 | -5.49  | -10.54 | -5.52  | -16.47 |
| 225                          | -13.26 | -12.71 | -7.29  | -4.44  | -6.25 | 1.41  | 3.31 | 1.9   | -2.64 | -5.27  | -9.05  | -5.27  | -16.47 |
| 240                          | -12.79 | -12.92 | -8.03  | -6.79  | -6.09 | 1.86  | 3.66 | 1.27  | -7.07 | -11.26 | -8.68  | -5.53  | -16.47 |
| 255                          | -13.08 | -12.76 | -9.55  | -11.01 | -7.04 | 1.5   | 2.65 | -0.08 | -5.95 | -10.66 | -8.59  | -6.35  | -16.47 |
| 270                          | -13.78 | -12.46 | -10.27 | -13.84 | -6.67 | 1.15  | 3.02 | 0.96  | -4.12 | -7.73  | -9.04  | -7.48  | -16.47 |
| 285                          | -14.35 | -11.73 | -8.88  | -10.81 | -5.21 | 2.62  | 3.88 | 1.65  | -2.27 | -4.58  | -10.04 | -8.81  | -16.47 |
| 300                          | -14.56 | -10.92 | -8.01  | -8.11  | -6.37 | 1.27  | 2.73 | 1.7   | -1.62 | -3.86  | -11.65 | -9.65  | -16.47 |
| 315                          | -14.44 | -10.81 | -8.17  | -7.43  | -7.47 | -0.8  | 0.85 | 0.32  | -3.06 | -6.97  | -12.41 | -10    | -16.47 |
| 330                          | -13.86 | -11.19 | -8.69  | -7.65  | -8.67 | -0.16 | 2.14 | 0.92  | -2.86 | -8.46  | -10.98 | -10.61 | -16.47 |
| 345                          | -13.6  | -12.22 | -9.15  | -7.54  | -9.19 | -0.69 | 2.35 | 2.45  | -1.11 | -6.54  | -9.43  | -11.02 | -16.47 |

## 5G\_1

| Ant3      |         |        |        |       |        |       |       |       |       |        |        |        |        |
|-----------|---------|--------|--------|-------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| Freq      | 5200.00 |        |        |       |        |       |       |       |       |        |        |        |        |
| Phi\Theta | 0       | 15     | 30     | 45    | 60     | 75    | 90    | 105   | 120   | 135    | 150    | 165    | 180    |
| 0         | -16.56  | -13.53 | -10.15 | -7.17 | -5.44  | -4.86 | -1.21 | -0.95 | -4.46 | -5.61  | -10.68 | -13.62 | -20.85 |
| 15        | -16.81  | -13.46 | -12.12 | -3.72 | -9.13  | -7.74 | 0.69  | 1.82  | -3.63 | -5.95  | -12.79 | -14.99 | -20.85 |
| 30        | -16.61  | -12.81 | -11.53 | -2.97 | -11.77 | -2.66 | 4.56  | 2.17  | -6.53 | -6.63  | -11.34 | -11.67 | -20.85 |
| 45        | -16.37  | -14.28 | -10.05 | -5.06 | -9.13  | -1.65 | 4.57  | 4.34  | -1.69 | -13.28 | -10.86 | -11.33 | -20.85 |
| 60        | -16.42  | -17.06 | -13.45 | -7.04 | -11.13 | -2.8  | 3.91  | 3.19  | -7.16 | -6.48  | -9.5   | -13.79 | -20.85 |
| 75        | -16.75  | -14.61 | -14.27 | -6.18 | -9.4   | -2.9  | 4.26  | 2.62  | -3.74 | -8.47  | -15.58 | -19.17 | -20.85 |
| 90        | -18.21  | -12.97 | -12.26 | -5.7  | -10.44 | -3.25 | 2.47  | 1.27  | -6.81 | -14.3  | -20.89 | -17.74 | -20.85 |
| 105       | -17.81  | -11.6  | -10.75 | -4.34 | -7.88  | -5.83 | 4.34  | 3.6   | -3.35 | -4.49  | -10.48 | -14.3  | -20.85 |
| 120       | -17.89  | -11.75 | -12.66 | -6.62 | -8.33  | -2.24 | 5.26  | 3.14  | -2.36 | -6.7   | -8.68  | -12.52 | -20.85 |

|     |        |        |        |       |        |       |       |       |        |        |        |        |        |
|-----|--------|--------|--------|-------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| 135 | -17.3  | -12.12 | -15.27 | -3.33 | -7.86  | -2.35 | 4.87  | 3.6   | -4.23  | -7.42  | -12.68 | -12.08 | -20.85 |
| 150 | -16.36 | -12.38 | -12.49 | -5.05 | -6.51  | -5.57 | 1.95  | 0.19  | -7.97  | -9.8   | -12.31 | -12.08 | -20.85 |
| 165 | -16.8  | -12.75 | -11.02 | -4.83 | -6.01  | -3.96 | 1.23  | 0.04  | -6.99  | -10.37 | -11.74 | -13.42 | -20.85 |
| 180 | -16.74 | -13.61 | -11.1  | -4.79 | -9.14  | -2.9  | 0.32  | -1.04 | -6.38  | -9.13  | -8.94  | -20.85 | -20.85 |
| 195 | -16.27 | -15.58 | -10.73 | -6.48 | -10.41 | -3.54 | 1.63  | 0.87  | -8.63  | -7.5   | -12.79 | -17.46 | -20.85 |
| 210 | -17.44 | -18.58 | -10.27 | -4.5  | -7.84  | -8.02 | 0.86  | -1.52 | -5.7   | -8.33  | -9.1   | -10.78 | -20.85 |
| 225 | -17.44 | -19.67 | -13.82 | -8    | -6.37  | -3.99 | 2.23  | 2.17  | -4.16  | -9.68  | -10.73 | -8.67  | -20.85 |
| 240 | -16.59 | -25.27 | -13.64 | -3.99 | -9.03  | 0.24  | 4.19  | 3.85  | -1.16  | -8.64  | -19.77 | -8.36  | -20.85 |
| 255 | -16.53 | -19.85 | -12.4  | -1.93 | -9.88  | -1.69 | 5.39  | 3.69  | -1.96  | -4.37  | -15.33 | -10.99 | -20.85 |
| 270 | -15.5  | -13.91 | -13.61 | -3.03 | -9.91  | -5.75 | -0.72 | -2.97 | -10.34 | -14.99 | -8.3   | -12.69 | -20.85 |
| 285 | -15.55 | -12.12 | -13.64 | -3.73 | -12.07 | -3.96 | 1.19  | -0.89 | -10.4  | -15.35 | -13.73 | -9.71  | -20.85 |
| 300 | -16.27 | -11.8  | -14.04 | -4.38 | -8.56  | -2.87 | 0.94  | -1.45 | -7.14  | -14.49 | -13.42 | -7.78  | -20.85 |
| 315 | -16.49 | -11.89 | -11.38 | -6.51 | -10.31 | -6.78 | 3.62  | 1.99  | -3.63  | -5.68  | -12    | -9.19  | -20.85 |
| 330 | -16.66 | -11.82 | -10.95 | -4.79 | -6.41  | -0.47 | 1.08  | 1.79  | -0.12  | -6.66  | -11.24 | -13.34 | -20.85 |
| 345 | -16.48 | -12.21 | -10.37 | -8.38 | -7.13  | -1.75 | 1.08  | -0.33 | -4.59  | -10.94 | -10.59 | -14.76 | -20.85 |

| Ant4      |         |        |        |        |        |        |       |       |       |        |        |        |        |
|-----------|---------|--------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|--------|
| Freq      | 5200.00 |        |        |        |        |        |       |       |       |        |        |        |        |
| Phi\Theta | 0       | 15     | 30     | 45     | 60     | 75     | 90    | 105   | 120   | 135    | 150    | 165    | 180    |
| 0         | -19.43  | -14.04 | -12    | -9.49  | -6.24  | -4.24  | 5.32  | 4.46  | -1.14 | -7.44  | -18.95 | -13.32 | -20.38 |
| 15        | -20.41  | -14.4  | -11.7  | -9.2   | -14.53 | -0.93  | 5.6   | 4.58  | -2.86 | -7.91  | -18.05 | -14.76 | -20.38 |
| 30        | -21.04  | -14.29 | -11.47 | -6.54  | -11.67 | -3.41  | 1.47  | 1.82  | -6.94 | -12.91 | -12.64 | -14.25 | -20.38 |
| 45        | -20.06  | -15.64 | -12.93 | -6.6   | -7.31  | -8.45  | 3     | 5.2   | -3.8  | -13.81 | -8.16  | -10.56 | -20.38 |
| 60        | -19.97  | -22.04 | -16.54 | -8.25  | -9.73  | -5.36  | 4.32  | 5.39  | -2.71 | -5.77  | -13    | -8.98  | -20.38 |
| 75        | -20.55  | -22.89 | -20.7  | -6.74  | -9.2   | -5.05  | 0.42  | 2.48  | -1.73 | -9.19  | -8.05  | -10.17 | -20.38 |
| 90        | -19.79  | -17.61 | -10.25 | -5.29  | -10.04 | -5.2   | 2.93  | 3.75  | -1.02 | -8.53  | -15.55 | -11.76 | -20.38 |
| 105       | -19.4   | -18.37 | -12.57 | -4.52  | -11.04 | -5.79  | 2.23  | 2.48  | -1.84 | -5.27  | -15.57 | -16.75 | -20.38 |
| 120       | -19.88  | -22.79 | -9.05  | -5.24  | -15.12 | -6.52  | -1.36 | 1.33  | -2.77 | -4.52  | -17.15 | -16.11 | -20.38 |
| 135       | -20.34  | -19.28 | -12.72 | -5.58  | -12.53 | -8.75  | 1.06  | 1.58  | -6.31 | -7.17  | -7.99  | -14.31 | -20.38 |
| 150       | -21.03  | -15.93 | -10.16 | -5.66  | -7.83  | -4.06  | -2.18 | -3.43 | -2.65 | -7.27  | -9.26  | -16.8  | -20.38 |
| 165       | -21.49  | -15.94 | -12.03 | -8.62  | -9.59  | -3.26  | -4.92 | -2.46 | -5.36 | -12.96 | -18.58 | -20.38 | -20.38 |
| 180       | -20.46  | -17.13 | -13.5  | -9.22  | -13.78 | -3.67  | -1.8  | -1.59 | -2.85 | -11.14 | -22.25 | -17.16 | -20.38 |
| 195       | -19.25  | -20.44 | -11.6  | -5.35  | -13.48 | -3.39  | 3.4   | 2.11  | 0.12  | -6.84  | -16.56 | -14.97 | -20.38 |
| 210       | -20.16  | -19.25 | -10.83 | -4.17  | -16.76 | -16.05 | 4.16  | 0.24  | -7.34 | -14.98 | -19.71 | -12.25 | -20.38 |
| 225       | -19.61  | -16.35 | -12.78 | -2.96  | -16.87 | -3.6   | -1.4  | 1.19  | -5.93 | -10.29 | -9.15  | -10.95 | -20.38 |
| 240       | -21.23  | -15.76 | -17.87 | -4.25  | -16.28 | -4.03  | 1.91  | 3.45  | -2.61 | -11.94 | -15.2  | -10.55 | -20.38 |
| 255       | -21.55  | -16.15 | -16.36 | -3.63  | -13.76 | -4.47  | 1.11  | 2.53  | -4    | -8.56  | -15.53 | -10.52 | -20.38 |
| 270       | -20.05  | -17.33 | -11.65 | -3.84  | -11.24 | -2.85  | 0.72  | 1.85  | -5.5  | -10.54 | -12.95 | -12.25 | -20.38 |
| 285       | -20.21  | -19.35 | -12.26 | -6.81  | -11.16 | -4.26  | 2.72  | 3.17  | -5.93 | -9.02  | -13.33 | -12.54 | -20.38 |
| 300       | -21.42  | -17.26 | -14.22 | -10.31 | -15.25 | -4.72  | 3.02  | 3.38  | -4.42 | -7.71  | -11.59 | -13.71 | -20.38 |
| 315       | -19.37  | -16.18 | -11.35 | -7.36  | -7.92  | -5.51  | 3.82  | 2.39  | -4.39 | -7.88  | -11.55 | -10.02 | -20.38 |
| 330       | -20.12  | -14.48 | -16.28 | -3.3   | -8.4   | -4.2   | 4.77  | 2.91  | -4.65 | -10.21 | -11.81 | -11.12 | -20.38 |
| 345       | -20.6   | -13.41 | -14.95 | -8.07  | -6.07  | -7.11  | 5.32  | 4.46  | -3.02 | -8.14  | -13.69 | -12.95 | -20.38 |

| 5200MHz Composite Gain (1SS) |         |        |        |       |       |       |      |      |       |        |        |        |       |
|------------------------------|---------|--------|--------|-------|-------|-------|------|------|-------|--------|--------|--------|-------|
| Freq                         | 5200.00 |        |        |       |       |       |      |      |       |        |        |        |       |
| Phi\Theta                    | 0       | 15     | 30     | 45    | 60    | 75    | 90   | 105  | 120   | 135    | 150    | 165    | 180   |
| 0                            | -14.87  | -10.77 | -8.02  | -5.24 | -2.82 | -1.54 | 5.66 | 5.18 | 0.37  | -3.47  | -10.86 | -10.46 | -17.6 |
| 15                           | -15.42  | -10.91 | -8.9   | -3.03 | -8.41 | -0.67 | 6.5  | 6.32 | -0.23 | -3.87  | -12.02 | -11.86 | -17.6 |
| 30                           | -15.54  | -10.51 | -8.49  | -1.56 | -8.71 | -0.02 | 6.16 | 5.01 | -3.72 | -6.21  | -8.96  | -9.86  | -17.6 |
| 45                           | -15.01  | -11.92 | -8.36  | -2.79 | -5.16 | -1.39 | 6.83 | 7.79 | 0.33  | -10.53 | -6.4   | -7.93  | -17.6 |
| 60                           | -15.01  | -16.19 | -11.85 | -4.61 | -7.39 | -0.98 | 7.13 | 7.37 | -1.64 | -3.11  | -8.07  | -8.05  | -17.6 |
| 75                           | -15.43  | -14.79 | -13.89 | -3.45 | -6.29 | -0.9  | 5.56 | 5.56 | 0.33  | -5.81  | -8.01  | -10.54 | -17.6 |
| 90                           | -15.95  | -11.97 | -8.19  | -2.48 | -7.23 | -1.16 | 5.71 | 5.61 | -0.43 | -7.94  | -14.81 | -11.24 | -17.6 |
| 105                          | -15.56  | -11.33 | -8.6   | -1.42 | -6.31 | -2.8  | 6.36 | 6.07 | 0.45  | -1.86  | -9.65  | -12.43 | -17.6 |
| 120                          | -15.82  | -12.61 | -7.66  | -2.89 | -8.07 | -1.11 | 5.58 | 5.29 | 0.45  | -2.53  | -8.91  | -11.12 | -17.6 |
| 135                          | -15.68  | -11.97 | -10.89 | -1.37 | -6.88 | -1.96 | 6.18 | 5.66 | -2.2  | -4.28  | -7.01  | -10.11 | -17.6 |
| 150                          | -15.38  | -10.97 | -8.24  | -2.34 | -4.14 | -1.77 | 3.14 | 1.58 | -1.9  | -5.43  | -7.64  | -11.11 | -17.6 |
| 165                          | -15.82  | -11.19 | -8.5   | -3.51 | -4.61 | -0.59 | 1.7  | 1.89 | -3.13 | -8.56  | -11.49 | -13.21 | -17.6 |
| 180                          | -15.39  | -12.18 | -9.21  | -3.72 | -8.14 | -0.27 | 2.33 | 1.7  | -1.43 | -7.07  | -10.25 | -15.8  | -17.6 |
| 195                          | -14.62  | -14.67 | -8.14  | -2.89 | -8.8  | -0.46 | 5.57 | 4.52 | -0.19 | -4.15  | -11.46 | -13.12 | -17.6 |
| 210                          | -15.68  | -15.9  | -7.54  | -1.32 | -8.19 | -8.13 | 5.68 | 2.41 | -3.47 | -8.02  | -9.87  | -8.47  | -17.6 |
| 225                          | -15.45  | -14.84 | -10.28 | -2.11 | -7.11 | -0.78 | 3.61 | 4.7  | -1.99 | -6.97  | -6.89  | -6.73  | -17.6 |
| 240                          | -15.59  | -16.26 | -12.49 | -1.11 | -8.91 | 1.37  | 6.13 | 6.66 | 1.15  | -7.12  | -14.18 | -6.38  | -17.6 |
| 255                          | -15.67  | -14.8  | -11.15 | 0.27  | -8.6  | 0.04  | 6.52 | 6.14 | 0.09  | -3.21  | -12.42 | -7.74  | -17.6 |
| 270                          | -14.47  | -12.44 | -9.57  | -0.42 | -7.54 | -1.17 | 3.04 | 2.78 | -4.58 | -9.47  | -7.31  | -9.46  | -17.6 |
| 285                          | -14.56  | -11.99 | -9.91  | -2.12 | -8.59 | -1.1  | 5    | 4.38 | -4.87 | -8.61  | -10.52 | -8     | -17.6 |
| 300                          | -15.46  | -11.1  | -11.12 | -3.84 | -8.27 | -0.74 | 5.05 | 4.31 | -2.66 | -7.45  | -9.45  | -7.24  | -17.6 |
| 315                          | -14.8   | -10.76 | -8.36  | -3.92 | -6.02 | -3.11 | 6.73 | 5.2  | -0.99 | -3.7   | -8.76  | -6.59  | -17.6 |
| 330                          | -15.21  | -10.04 | -10.2  | -1    | -4.34 | 0.87  | 6.13 | 5.38 | 0.92  | -5.25  | -8.51  | -9.15  | -17.6 |
| 345                          | -15.29  | -9.78  | -9.35  | -5.21 | -3.57 | -1.01 | 6.47 | 5.4  | -0.76 | -6.42  | -8.99  | -10.8  | -17.6 |

| 5200MHz Composite Gain (2SS) |         |        |        |       |        |       |      |       |       |        |        |        |        |
|------------------------------|---------|--------|--------|-------|--------|-------|------|-------|-------|--------|--------|--------|--------|
| Freq                         | 5200.00 |        |        |       |        |       |      |       |       |        |        |        |        |
| Phi\Theta                    | 0       | 15     | 30     | 45    | 60     | 75    | 90   | 105   | 120   | 135    | 150    | 165    | 180    |
| 0                            | -17.76  | -13.78 | -10.98 | -8.18 | -5.82  | -4.54 | 3.18 | 2.55  | -2.49 | -6.43  | -13.09 | -13.47 | -20.61 |
| 15                           | -18.25  | -13.91 | -11.91 | -5.65 | -11.04 | -3.12 | 3.8  | 3.41  | -3.23 | -6.82  | -14.67 | -14.87 | -20.61 |
| 30                           | -18.28  | -13.49 | -11.5  | -4.4  | -11.72 | -3.02 | 3.28 | 2     | -6.73 | -8.72  | -11.94 | -12.77 | -20.61 |
| 45                           | -17.84  | -14.91 | -11.26 | -5.76 | -8.13  | -3.84 | 3.85 | 4.79  | -2.62 | -13.54 | -9.3   | -10.93 | -20.61 |
| 60                           | -17.84  | -18.87 | -14.73 | -7.6  | -10.38 | -3.9  | 4.12 | 4.43  | -4.39 | -6.11  | -10.91 | -10.75 | -20.61 |
| 75                           | -18.25  | -17.02 | -16.39 | -6.45 | -9.3   | -3.84 | 2.75 | 2.55  | -2.62 | -8.82  | -10.36 | -12.67 | -20.61 |
| 90                           | -18.93  | -14.7  | -11.14 | -5.49 | -10.24 | -4.12 | 2.7  | 2.68  | -3.02 | -10.52 | -17.45 | -13.79 | -20.61 |
| 105                          | -18.53  | -13.78 | -11.57 | -4.43 | -9.18  | -5.81 | 3.41 | 3.07  | -2.53 | -4.86  | -12.32 | -15.36 | -20.61 |
| 120                          | -18.77  | -14.43 | -10.49 | -5.88 | -10.52 | -3.87 | 3.1  | 2.33  | -2.56 | -5.48  | -11.11 | -13.96 | -20.61 |
| 135                          | -18.56  | -14.37 | -13.81 | -4.31 | -9.6   | -4.47 | 3.37 | 2.71  | -5.15 | -7.29  | -9.73  | -13.05 | -20.61 |
| 150                          | -18.1   | -13.8  | -11.17 | -5.35 | -7.12  | -4.75 | 0.36 | -1.25 | -4.54 | -8.35  | -10.52 | -13.83 | -20.61 |

|     |        |        |        |       |        |       |       |       |       |        |        |        |        |
|-----|--------|--------|--------|-------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| 165 | -18.54 | -14.06 | -11.5  | -6.33 | -7.44  | -3.6  | -0.84 | -1.03 | -6.1  | -11.48 | -13.93 | -15.63 | -20.61 |
| 180 | -18.21 | -15.02 | -12.14 | -6.46 | -10.87 | -3.27 | -0.61 | -1.31 | -4.27 | -10.02 | -11.75 | -18.63 | -20.61 |
| 195 | -17.51 | -17.36 | -11.14 | -5.88 | -11.68 | -3.47 | 2.6   | 1.53  | -2.35 | -7.16  | -14.28 | -16.04 | -20.61 |
| 210 | -18.59 | -18.9  | -10.54 | -4.33 | -10.33 | -10.4 | 2.81  | -0.55 | -6.44 | -10.49 | -11.75 | -11.45 | -20.61 |
| 225 | -18.39 | -17.7  | -13.27 | -4.79 | -9.01  | -3.79 | 0.78  | 1.71  | -4.96 | -9.98  | -9.87  | -9.66  | -20.61 |
| 240 | -18.32 | -18.31 | -15.26 | -4.12 | -11.29 | -1.39 | 3.2   | 3.65  | -1.83 | -9.99  | -16.91 | -9.32  | -20.61 |
| 255 | -18.35 | -17.62 | -13.94 | -2.7  | -11.4  | -2.86 | 3.76  | 3.15  | -2.86 | -5.98  | -15.43 | -10.75 | -20.61 |
| 270 | -17.21 | -15.29 | -12.52 | -3.42 | -10.53 | -4.06 | 0.06  | 0.08  | -7.28 | -12.22 | -10.03 | -12.47 | -20.61 |
| 285 | -17.28 | -14.38 | -12.9  | -5    | -11.59 | -4.11 | 2.02  | 1.6   | -7.61 | -11.12 | -13.53 | -10.9  | -20.61 |
| 300 | -18.12 | -13.72 | -14.13 | -6.4  | -10.73 | -3.7  | 2.1   | 1.6   | -5.57 | -9.89  | -12.41 | -9.8   | -20.61 |
| 315 | -17.7  | -13.53 | -11.37 | -6.92 | -8.95  | -6.1  | 3.72  | 2.19  | -3.99 | -6.64  | -11.77 | -9.59  | -20.61 |
| 330 | -18.06 | -12.95 | -12.85 | -3.98 | -7.29  | -1.95 | 3.3   | 2.38  | -1.82 | -8.08  | -11.52 | -12.09 | -20.61 |
| 345 | -18.07 | -12.77 | -12.08 | -8.22 | -6.57  | -3.65 | 3.7   | 2.69  | -3.74 | -9.32  | -11.87 | -13.76 | -20.61 |

| Ant3      |         |        |        |       |        |       |       |       |        |        |        |        |        |
|-----------|---------|--------|--------|-------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| Freq      | 5300.00 |        |        |       |        |       |       |       |        |        |        |        |        |
| Phi\Theta | 0       | 15     | 30     | 45    | 60     | 75    | 90    | 105   | 120    | 135    | 150    | 165    | 180    |
| 0         | -15.45  | -15.92 | -12.15 | -5.47 | -10.24 | -2.74 | -2.53 | -2.52 | -7.28  | -10.45 | -11.98 | -16.67 | -20.36 |
| 15        | -14.89  | -16.36 | -12.23 | -4.07 | -15.15 | -4.15 | 1.24  | 1.05  | -6.04  | -9.01  | -12.28 | -15.02 | -20.36 |
| 30        | -14.7   | -17.11 | -8.42  | -4.59 | -13.36 | -2.67 | 3.58  | 0.86  | -8.68  | -12.43 | -11.79 | -13.8  | -20.36 |
| 45        | -14.77  | -16.96 | -9.04  | -5.93 | -12.01 | -0.62 | 4.14  | 2.79  | -4.72  | -20.77 | -10.48 | -14.76 | -20.36 |
| 60        | -15.1   | -15.85 | -18.76 | -7.2  | -14.52 | -1.82 | 4.35  | 2.53  | -8.17  | -7.9   | -9.05  | -16.54 | -20.36 |
| 75        | -15.73  | -14.71 | -13.28 | -6.28 | -14.81 | -0.22 | 4.72  | 2.83  | -5.64  | -10.02 | -17.75 | -18.87 | -20.36 |
| 90        | -16.1   | -14.62 | -16.13 | -6.87 | -13.91 | -0.27 | 3.83  | 1.37  | -8.4   | -11.23 | -16.58 | -16.04 | -20.36 |
| 105       | -15.88  | -16.09 | -15.88 | -6.47 | -11    | -4.05 | 4.51  | 2.87  | -7.62  | -9.29  | -13.14 | -15.49 | -20.36 |
| 120       | -15.28  | -16.68 | -15.11 | -5.55 | -9.22  | -1.27 | 5.7   | 1.36  | -6.68  | -9.43  | -13.28 | -14.78 | -20.36 |
| 135       | -15.5   | -16.15 | -17.37 | -4.13 | -13.92 | -1.38 | 3.73  | 2.39  | -5.3   | -8.81  | -13.7  | -14    | -20.36 |
| 150       | -15.3   | -15.26 | -14.04 | -7.71 | -10.67 | -3.15 | 2.24  | -1.9  | -11.55 | -9.23  | -11.39 | -14.4  | -20.36 |
| 165       | -15.13  | -14.77 | -9.07  | -6.22 | -8.17  | -0.83 | 2.23  | -2.1  | -10.86 | -10.23 | -12.73 | -15.78 | -20.36 |
| 180       | -15.5   | -14.54 | -9.18  | -4.12 | -10.16 | -1.59 | -0.44 | -2.36 | -11.22 | -12.38 | -9.32  | -20.26 | -20.36 |
| 195       | -15.67  | -14.77 | -13.07 | -8.07 | -15.99 | -1.5  | 1.3   | -0.18 | -11.71 | -10.02 | -13.96 | -20.36 | -20.36 |
| 210       | -15.33  | -16    | -9.8   | -3.73 | -8.32  | -4.73 | 1.86  | -0.81 | -8.61  | -11.19 | -12.35 | -13.3  | -20.36 |
| 225       | -15.75  | -17.71 | -11.88 | -6.83 | -11.92 | -0.82 | 2.45  | 0.94  | -6.76  | -10.14 | -11.58 | -10.95 | -20.36 |
| 240       | -15.72  | -19.51 | -13.85 | -3.39 | -8.87  | 0.12  | 3.63  | 2.94  | -3.24  | -11.29 | -21.06 | -10.37 | -20.36 |
| 255       | -15.14  | -23.64 | -13.12 | -2.26 | -16.26 | -2.59 | 4.3   | 2.26  | -5.45  | -6.86  | -14.49 | -12.98 | -20.36 |
| 270       | -14.92  | -21.41 | -14.14 | -4.52 | -14.45 | -3.26 | -1.09 | -4.94 | -12.91 | -16.7  | -9.25  | -16.36 | -20.36 |
| 285       | -14.72  | -16.86 | -12.54 | -5.05 | -11.47 | -4.41 | 0.38  | -1.3  | -10.82 | -17.55 | -13.65 | -13.42 | -20.36 |
| 300       | -14.75  | -14.76 | -14.21 | -4.12 | -9.47  | -0.18 | 1.67  | -0.92 | -9.17  | -19.76 | -14.59 | -9.79  | -20.36 |
| 315       | -14.98  | -13.52 | -11.93 | -6.33 | -9.81  | -3.58 | 3.46  | 1.3   | -5.73  | -6.91  | -13.97 | -9.16  | -20.36 |
| 330       | -15.5   | -13.07 | -10.51 | -8.39 | -7.19  | 0.43  | 1.06  | 1.54  | -2.33  | -8.32  | -12.08 | -13.48 | -20.36 |
| 345       | -15.74  | -14.47 | -10.74 | -7.34 | -8.41  | -0.68 | -0.31 | -1.22 | -7.23  | -12.82 | -11.86 | -20.03 | -20.36 |

Ant4

| Freq      | 5300.00 |        |        |        |        |        |       |       |        |        |        |        |        |
|-----------|---------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|
| Phi\Theta | 0       | 15     | 30     | 45     | 60     | 75     | 90    | 105   | 120    | 135    | 150    | 165    | 180    |
| 0         | -21.17  | -15.47 | -11.52 | -8.11  | -10.31 | -4.35  | 4.87  | 3.11  | -4.63  | -10.82 | -16.56 | -14.28 | -19.81 |
| 15        | -21.35  | -16.08 | -10.56 | -8.7   | -19.05 | 0.75   | 4.9   | 2.9   | -3.42  | -9.14  | -18.71 | -13.93 | -19.81 |
| 30        | -21.2   | -15.38 | -10.65 | -5.86  | -12.08 | -0.79  | 2.99  | 0.72  | -7.4   | -11.27 | -17.88 | -13.38 | -19.81 |
| 45        | -22.15  | -14.82 | -9.58  | -7     | -8.95  | -4.83  | 4.28  | 4.79  | -5.75  | -10.5  | -10    | -11.47 | -19.81 |
| 60        | -21.59  | -18.42 | -17.41 | -9.09  | -12.9  | -2.8   | 5.11  | 4.79  | -4.86  | -7.08  | -12.47 | -10.14 | -19.81 |
| 75        | -21.18  | -23.35 | -16.96 | -6.31  | -11.95 | -3.02  | 1.56  | 1.4   | -3.96  | -12.68 | -8.84  | -10.43 | -19.81 |
| 90        | -21.86  | -18.87 | -14.77 | -6.4   | -13.96 | -1.74  | 3.36  | 2.45  | -2.24  | -14.52 | -14.9  | -10.4  | -19.81 |
| 105       | -21.47  | -21.13 | -14.48 | -4.9   | -16.91 | -1.86  | 1.7   | 0.85  | -2.49  | -8.08  | -15.95 | -14.7  | -19.81 |
| 120       | -22.63  | -26.58 | -11.09 | -6.65  | -19.16 | -3.44  | -2.14 | 0.75  | -2.97  | -6.71  | -16.1  | -19.15 | -19.81 |
| 135       | -22.57  | -23.55 | -13.06 | -6.74  | -15.8  | -3.96  | 1.74  | 0.99  | -6.44  | -8.81  | -10.72 | -16.5  | -19.81 |
| 150       | -22.39  | -21.39 | -12    | -7.11  | -14.04 | -2     | -1.4  | -2.08 | -4.13  | -11.85 | -9.42  | -16.52 | -19.81 |
| 165       | -22.36  | -20.69 | -14.92 | -8.56  | -11.16 | -2.02  | -4.72 | -2.51 | -7.59  | -15.9  | -17.19 | -19.81 | -19.81 |
| 180       | -22.23  | -21.04 | -17.66 | -8.18  | -11.04 | -1.88  | -2.27 | -1.03 | -4.34  | -11.6  | -22    | -19.78 | -19.81 |
| 195       | -22.23  | -18.45 | -13.21 | -4.33  | -13.53 | -1.19  | 3.27  | 1.98  | -1.19  | -8.85  | -19.48 | -17.27 | -19.81 |
| 210       | -22.35  | -15.01 | -12.66 | -3.15  | -14.78 | -11.55 | 2.89  | -1.03 | -7.41  | -18.19 | -20.25 | -13.89 | -19.81 |
| 225       | -22.17  | -12.93 | -14.01 | -2.58  | -16.42 | -1.78  | -1.13 | -0.33 | -7.04  | -11.35 | -9.39  | -13.67 | -19.81 |
| 240       | -20.78  | -11.7  | -11.17 | -6.17  | -10.4  | -1.27  | 2.79  | 3.2   | -4.97  | -15.16 | -16.84 | -10.79 | -19.81 |
| 255       | -20.98  | -12.53 | -14.08 | -6.03  | -14.62 | -2.36  | 2.14  | 2.59  | -6.65  | -13.46 | -18.83 | -10.67 | -19.81 |
| 270       | -21.49  | -14.69 | -10.63 | -7.64  | -17.71 | -0.88  | 1.74  | 1.77  | -6.29  | -10.86 | -14.61 | -12.34 | -19.81 |
| 285       | -22.09  | -13.81 | -13.1  | -7.68  | -12.91 | -2.16  | 2.96  | 2.39  | -7.32  | -14.05 | -17.44 | -12.37 | -19.81 |
| 300       | -21     | -14.24 | -16.77 | -6.81  | -12.17 | -2.91  | 2.03  | 0.98  | -7.06  | -10.59 | -10.27 | -11.76 | -19.81 |
| 315       | -21.79  | -13.91 | -13.72 | -5.67  | -8.87  | -2.52  | 3.81  | 1.11  | -7.47  | -7.23  | -13.13 | -10.78 | -19.81 |
| 330       | -20.21  | -13.41 | -16.62 | -5.46  | -10.63 | -3.6   | 4.12  | 0.29  | -11.13 | -13.07 | -13.88 | -13.31 | -19.81 |
| 345       | -20.09  | -14.78 | -12.48 | -10.84 | -7.33  | -5.69  | 4.85  | 2.72  | -6.25  | -11.63 | -14.96 | -14.33 | -19.81 |

| 5300MHz Composite Gain (1SS) |         |        |        |       |        |      |      |      |       |        |        |        |        |
|------------------------------|---------|--------|--------|-------|--------|------|------|------|-------|--------|--------|--------|--------|
| Freq                         | 5300.00 |        |        |       |        |      |      |      |       |        |        |        |        |
| Phi\Theta                    | 0       | 15     | 30     | 45    | 60     | 75   | 90   | 105  | 120   | 135    | 150    | 165    | 180    |
| 0                            | -14.84  | -12.68 | -8.82  | -3.68 | -7.26  | -0.5 | 4.95 | 3.76 | -2.84 | -7.62  | -10.96 | -12.38 | -17.07 |
| 15                           | -14.52  | -13.21 | -8.34  | -3.07 | -13.87 | 1.65 | 6.27 | 5.04 | -1.62 | -6.06  | -11.9  | -11.45 | -17.07 |
| 30                           | -14.34  | -13.19 | -6.45  | -2.19 | -9.68  | 1.33 | 6.3  | 3.8  | -5    | -8.82  | -11.3  | -10.58 | -17.07 |
| 45                           | -14.69  | -12.81 | -6.29  | -3.44 | -7.33  | 0.54 | 7.22 | 6.86 | -2.21 | -11.19 | -7.22  | -9.95  | -17.07 |
| 60                           | -14.74  | -14.03 | -15.05 | -5.08 | -10.66 | 0.72 | 7.75 | 6.74 | -3.35 | -4.47  | -7.58  | -9.75  | -17.07 |
| 75                           | -15.02  | -14.99 | -11.91 | -3.28 | -10.25 | 1.5  | 6.29 | 5.16 | -1.75 | -8.24  | -9.19  | -10.65 | -17.07 |
| 90                           | -15.5   | -13.48 | -12.41 | -3.62 | -10.92 | 2.04 | 6.61 | 4.94 | -1.77 | -9.71  | -12.69 | -9.76  | -17.07 |
| 105                          | -15.22  | -15.24 | -12.14 | -2.64 | -10.45 | 0.13 | 6.23 | 4.93 | -1.67 | -5.65  | -11.42 | -12.07 | -17.07 |
| 120                          | -15.19  | -17.28 | -9.86  | -3.07 | -9.83  | 0.72 | 5.65 | 4.07 | -1.62 | -4.95  | -11.56 | -13.68 | -17.07 |
| 135                          | -15.32  | -16.07 | -11.94 | -2.33 | -11.8  | 0.44 | 5.8  | 4.73 | -2.84 | -5.8   | -9.07  | -12.15 | -17.07 |
| 150                          | -15.13  | -14.78 | -9.95  | -4.39 | -9.18  | 0.46 | 3.62 | 1.02 | -4.06 | -7.43  | -7.34  | -12.38 | -17.07 |
| 165                          | -15     | -14.22 | -8.5   | -4.3  | -6.53  | 1.61 | 2.44 | 0.71 | -6.06 | -9.6   | -11.67 | -14.55 | -17.07 |
| 180                          | -15.22  | -14.18 | -9.41  | -2.9  | -7.58  | 1.28 | 1.7  | 1.34 | -4.1  | -8.97  | -10.51 | -17    | -17.07 |

|     |        |        |        |       |        |       |      |      |       |        |        |        |        |
|-----|--------|--------|--------|-------|--------|-------|------|------|-------|--------|--------|--------|--------|
| 195 | -15.33 | -13.4  | -10.13 | -2.99 | -11.66 | 1.67  | 5.35 | 3.98 | -1.93 | -6.4   | -13.28 | -15.67 | -17.07 |
| 210 | -15.14 | -12.48 | -8.1   | -0.42 | -7.95  | -4.48 | 5.4  | 2.09 | -4.98 | -10.99 | -12.42 | -10.58 | -17.07 |
| 225 | -15.37 | -11.98 | -9.87  | -1.44 | -10.87 | 1.72  | 3.85 | 3.34 | -3.89 | -7.71  | -7.4   | -9.19  | -17.07 |
| 240 | -14.87 | -11.74 | -9.4   | -1.66 | -6.59  | 2.46  | 6.23 | 6.08 | -1.05 | -10    | -15.68 | -7.57  | -17.07 |
| 255 | -14.57 | -13.41 | -10.58 | -0.93 | -12.39 | 0.54  | 6.3  | 5.44 | -3.02 | -6.54  | -13.38 | -8.74  | -17.07 |
| 270 | -14.59 | -14.4  | -9.2   | -2.93 | -12.92 | 1.02  | 3.45 | 2.06 | -5.97 | -10.29 | -8.51  | -11.11 | -17.07 |
| 285 | -14.63 | -12.19 | -9.8   | -3.25 | -9.15  | -0.2  | 4.78 | 3.75 | -5.88 | -12.61 | -12.33 | -9.87  | -17.07 |
| 300 | -14.31 | -11.48 | -12.38 | -2.35 | -7.7   | 1.57  | 4.86 | 3.09 | -5.04 | -11.01 | -9.15  | -7.71  | -17.07 |
| 315 | -14.72 | -10.7  | -9.77  | -2.98 | -6.32  | -0.02 | 6.65 | 4.22 | -3.54 | -4.06  | -10.53 | -6.92  | -17.07 |
| 330 | -14.53 | -10.23 | -10.03 | -3.79 | -5.73  | 1.66  | 5.74 | 3.95 | -2.65 | -7.36  | -9.92  | -10.38 | -17.07 |
| 345 | -14.63 | -11.61 | -8.55  | -5.9  | -4.84  | 0.18  | 5.66 | 3.98 | -3.71 | -9.19  | -10.26 | -13.71 | -17.07 |

| 5300MHz Composite Gain (2SS) |         |        |        |       |        |       |       |       |       |        |        |        |        |
|------------------------------|---------|--------|--------|-------|--------|-------|-------|-------|-------|--------|--------|--------|--------|
| Freq                         | 5300.00 |        |        |       |        |       |       |       |       |        |        |        |        |
| Phi\Theta                    | 0       | 15     | 30     | 45    | 60     | 75    | 90    | 105   | 120   | 135    | 150    | 165    | 180    |
| 0                            | -17.43  | -15.69 | -11.82 | -6.59 | -10.27 | -3.47 | 2.59  | 1.15  | -5.75 | -10.63 | -13.69 | -15.31 | -20.07 |
| 15                           | -17.01  | -16.21 | -11.31 | -5.79 | -16.67 | -1.04 | 3.45  | 2.08  | -4.53 | -9.07  | -14.4  | -14.44 | -20.07 |
| 30                           | -16.83  | -16.16 | -9.39  | -5.18 | -12.67 | -1.63 | 3.3   | 0.79  | -7.99 | -11.81 | -13.84 | -13.58 | -20.07 |
| 45                           | -17.05  | -15.76 | -9.3   | -6.43 | -10.21 | -2.23 | 4.21  | 3.91  | -5.2  | -13.12 | -10.23 | -12.81 | -20.07 |
| 60                           | -17.23  | -16.94 | -18.03 | -8.04 | -13.63 | -2.28 | 4.75  | 3.81  | -6.2  | -7.47  | -10.43 | -12.25 | -20.07 |
| 75                           | -17.65  | -17.16 | -14.74 | -6.29 | -13.15 | -1.39 | 3.42  | 2.18  | -4.72 | -11.15 | -11.32 | -12.86 | -20.07 |
| 90                           | -18.08  | -16.24 | -15.39 | -6.63 | -13.93 | -0.94 | 3.6   | 1.95  | -4.31 | -12.57 | -15.66 | -12.36 | -20.07 |
| 105                          | -17.83  | -17.91 | -15.12 | -5.61 | -13.02 | -2.81 | 3.33  | 1.98  | -4.33 | -8.64  | -14.32 | -15.07 | -20.07 |
| 120                          | -17.55  | -19.26 | -12.65 | -6.06 | -11.81 | -2.22 | 3.35  | 1.07  | -4.44 | -7.86  | -14.46 | -16.43 | -20.07 |
| 135                          | -17.73  | -18.43 | -14.7  | -5.24 | -14.76 | -2.48 | 2.85  | 1.75  | -5.83 | -8.81  | -11.96 | -15.07 | -20.07 |
| 150                          | -17.53  | -17.32 | -12.9  | -7.4  | -12.03 | -2.53 | 0.79  | -1.99 | -6.41 | -10.34 | -10.29 | -15.33 | -20.07 |
| 165                          | -17.38  | -16.79 | -11.07 | -7.23 | -9.41  | -1.38 | 0.02  | -2.3  | -8.92 | -12.2  | -14.41 | -17.34 | -20.07 |
| 180                          | -17.67  | -16.67 | -11.61 | -5.69 | -10.57 | -1.73 | -1.26 | -1.64 | -6.54 | -11.97 | -12.1  | -20.01 | -20.07 |
| 195                          | -17.81  | -16.23 | -13.14 | -5.81 | -14.58 | -1.34 | 2.4   | 1.04  | -3.83 | -9.39  | -15.89 | -18.54 | -20.07 |
| 210                          | -17.55  | -15.47 | -11    | -3.43 | -10.44 | -6.92 | 2.41  | -0.92 | -7.97 | -13.41 | -14.7  | -13.58 | -20.07 |
| 225                          | -17.86  | -14.69 | -12.81 | -4.2  | -13.61 | -1.27 | 1.02  | 0.35  | -6.89 | -10.7  | -10.34 | -12.1  | -20.07 |
| 240                          | -17.55  | -14.04 | -12.3  | -4.56 | -9.56  | -0.52 | 3.23  | 3.08  | -4.02 | -12.8  | -18.45 | -10.57 | -20.07 |
| 255                          | -17.14  | -15.21 | -13.57 | -3.74 | -15.36 | -2.47 | 3.36  | 2.43  | -6.01 | -9.01  | -16.14 | -11.67 | -20.07 |
| 270                          | -17.06  | -16.86 | -12.04 | -5.8  | -15.78 | -1.91 | 0.55  | -0.4  | -8.44 | -12.86 | -11.15 | -13.9  | -20.07 |
| 285                          | -17     | -15.07 | -12.81 | -6.17 | -12.13 | -3.14 | 1.86  | 0.93  | -8.72 | -15.45 | -15.14 | -12.86 | -20.07 |
| 300                          | -16.83  | -14.49 | -15.3  | -5.26 | -10.61 | -1.33 | 1.86  | 0.14  | -7.98 | -13.1  | -11.91 | -10.66 | -20.07 |
| 315                          | -17.16  | -13.71 | -12.73 | -5.98 | -9.31  | -3.01 | 3.64  | 1.21  | -6.51 | -7.06  | -13.53 | -9.89  | -20.07 |
| 330                          | -17.24  | -13.23 | -12.57 | -6.68 | -8.57  | -1.13 | 2.86  | 0.96  | -4.8  | -10.07 | -12.88 | -13.39 | -20.07 |
| 345                          | -17.39  | -14.62 | -11.52 | -8.74 | -7.83  | -2.5  | 3     | 1.19  | -6.71 | -12.18 | -13.14 | -16.3  | -20.07 |

| Ant3 |         |  |  |  |  |  |  |  |  |  |  |  |  |
|------|---------|--|--|--|--|--|--|--|--|--|--|--|--|
| Freq | 5600.00 |  |  |  |  |  |  |  |  |  |  |  |  |

| Phi\Theta | 0      | 15     | 30     | 45     | 60     | 75    | 90    | 105    | 120    | 135    | 150    | 165    | 180    |
|-----------|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 0         | -19.43 | -26.63 | -8.68  | -9.83  | -19.23 | -1.96 | -0.7  | -6.92  | -17.15 | -13.8  | -15.39 | -15.95 | -21.94 |
| 15        | -19.7  | -22.19 | -9.05  | -9.4   | -16.5  | -3.17 | -0.5  | -3.27  | -18.31 | -10.73 | -13.15 | -16.95 | -21.94 |
| 30        | -19.69 | -19.78 | -9.98  | -8.26  | -19.05 | -0.65 | 4     | -1.43  | -13.53 | -12.2  | -15.69 | -20.26 | -21.94 |
| 45        | -20.07 | -18.86 | -12.39 | -9.28  | -19.33 | 0.72  | 4.42  | -0.81  | -14.94 | -10.61 | -13.91 | -21.94 | -21.94 |
| 60        | -20.79 | -21.53 | -13.85 | -11.66 | -14.62 | 1.12  | 4.11  | -1.8   | -11.5  | -7.26  | -16.86 | -18.12 | -21.94 |
| 75        | -19.53 | -27.08 | -14.96 | -8.45  | -12.63 | 0.98  | 2.88  | -2.32  | -25.29 | -13.9  | -20.22 | -18.27 | -21.94 |
| 90        | -19.11 | -25.64 | -13.13 | -6.03  | -14.3  | 1.77  | 3.81  | -3.1   | -24.35 | -16.07 | -20.63 | -19.31 | -21.94 |
| 105       | -19.67 | -22.89 | -15.21 | -10.94 | -19.06 | -0.29 | 3.63  | -0.9   | -11.95 | -15.94 | -19.8  | -18.1  | -21.94 |
| 120       | -19.39 | -22.78 | -15.31 | -6.34  | -12.95 | 2.03  | 4.65  | -3.36  | -9.83  | -11.58 | -18.72 | -14.27 | -21.94 |
| 135       | -19.97 | -23.45 | -14.15 | -12.7  | -16.36 | 0.04  | 3.13  | -3.9   | -13.7  | -9.71  | -17.49 | -14.4  | -21.94 |
| 150       | -20.8  | -23.64 | -17.3  | -9.98  | -12.12 | 1.12  | 2.31  | -11.74 | -10.76 | -14.59 | -15.33 | -17.07 | -21.94 |
| 165       | -19.5  | -23.58 | -13.04 | -5.31  | -14.34 | 1.29  | 3.65  | -5.75  | -14.18 | -11    | -14.15 | -18.11 | -21.94 |
| 180       | -19.19 | -24.2  | -9.8   | -3.43  | -21.55 | 0.29  | 0.94  | -3.03  | -16.01 | -10.4  | -11.68 | -19.51 | -21.94 |
| 195       | -20.08 | -25.27 | -8.45  | -4.66  | -14.96 | -1.47 | -0.88 | -5.47  | -15.02 | -8.34  | -13.65 | -19.51 | -21.94 |
| 210       | -20.12 | -23.65 | -10.6  | -8.55  | -15.29 | 0.5   | -0.86 | -7.53  | -19.45 | -12.03 | -16.46 | -17.06 | -21.94 |
| 225       | -20.28 | -20.01 | -10.36 | -7.75  | -13.53 | 0.42  | 1.43  | -2.81  | -17.81 | -9.95  | -12.71 | -21.15 | -21.94 |
| 240       | -20.11 | -17.22 | -15.29 | -5.49  | -21.34 | 1.08  | 3.9   | -0.69  | -10.05 | -17.3  | -18.03 | -16.02 | -21.94 |
| 255       | -19.27 | -16.74 | -15.52 | -5.31  | -14.61 | -0.79 | 3.05  | -3.21  | -18.79 | -13.55 | -14.88 | -16.67 | -21.94 |
| 270       | -19.52 | -17.33 | -13.7  | -5.16  | -16.67 | -2.41 | -2    | -8.53  | -16.48 | -14.65 | -18.66 | -19.31 | -21.94 |
| 285       | -20.11 | -20.83 | -13.85 | -4.59  | -13.07 | -0.98 | 1.86  | -2.42  | -15.67 | -14.4  | -18.48 | -17.62 | -21.94 |
| 300       | -20.47 | -22.95 | -12.51 | -6.84  | -8.68  | 0.95  | 1.44  | -4.8   | -17.37 | -25.59 | -17.96 | -15.88 | -21.94 |
| 315       | -20.39 | -24.8  | -11.64 | -6.79  | -12.51 | -1.14 | 2.78  | -1.04  | -8.1   | -13.46 | -15.03 | -15.56 | -21.94 |
| 330       | -20.1  | -25.7  | -8.76  | -10.46 | -17.37 | 2.34  | 1.52  | -0.9   | -8.93  | -16.03 | -13.44 | -19.2  | -21.94 |
| 345       | -19.3  | -25.97 | -8.02  | -10.35 | -19.28 | 0.42  | 0.05  | -5.16  | -23.91 | -12.74 | -15.35 | -19.95 | -21.94 |

| Ant4      |         |        |        |       |        |       |       |       |        |        |        |        |        |
|-----------|---------|--------|--------|-------|--------|-------|-------|-------|--------|--------|--------|--------|--------|
| Freq      | 5600.00 |        |        |       |        |       |       |       |        |        |        |        |        |
| Phi\Theta | 0       | 15     | 30     | 45    | 60     | 75    | 90    | 105   | 120    | 135    | 150    | 165    | 180    |
| 0         | -21.46  | -17.2  | -14.6  | -7.76 | -16.63 | 1.73  | 6.87  | -0.11 | -15.06 | -13.22 | -19.01 | -21.73 | -27.85 |
| 15        | -21.91  | -18.14 | -15.56 | -7.85 | -17.03 | -1.34 | 4.27  | -2.37 | -15.81 | -10.19 | -20.09 | -18.24 | -27.85 |
| 30        | -23.25  | -22.56 | -13.95 | -6.3  | -21.01 | 1.74  | 4.58  | -1.57 | -9.9   | -11.52 | -17.02 | -16.12 | -27.85 |
| 45        | -22.05  | -24.44 | -14.36 | -8.46 | -12.96 | 0.69  | 4.63  | -0.38 | -12.88 | -17.55 | -19.83 | -13.23 | -27.85 |
| 60        | -22.63  | -19.57 | -13.24 | -9.31 | -12.06 | -0.01 | 5.2   | 1.34  | -11.67 | -11.86 | -10.73 | -14.92 | -27.85 |
| 75        | -23.21  | -19.69 | -10.98 | -7.49 | -13.5  | -1.81 | 1.34  | -1.81 | -13    | -8.21  | -13.37 | -16.49 | -27.85 |
| 90        | -22.84  | -20.19 | -11.8  | -6.37 | -18.08 | -2.59 | 1.49  | 0.06  | -8.04  | -10.4  | -9.24  | -11.07 | -27.85 |
| 105       | -23.16  | -16.98 | -12.9  | -9.05 | -17.51 | 0.03  | 0.77  | -3.62 | -10.79 | -11.53 | -21.69 | -11.96 | -27.85 |
| 120       | -22.33  | -17.03 | -13.07 | -6.73 | -20.74 | -2.45 | -1.04 | -4.11 | -10.25 | -9.48  | -17.06 | -17    | -27.85 |
| 135       | -22     | -16.26 | -11.34 | -6.81 | -13.12 | -2.17 | 1.32  | -1.92 | -13.12 | -10.61 | -16.39 | -16.79 | -27.85 |
| 150       | -22.36  | -14.9  | -12.89 | -6.87 | -14.24 | -3.08 | -0.85 | -4.11 | -10.24 | -12.02 | -12.28 | -15.41 | -27.85 |
| 165       | -19.86  | -14.59 | -11.17 | -6.36 | -20.73 | -1.02 | -2.51 | -3.55 | -12.45 | -13.65 | -14.3  | -19.05 | -27.85 |
| 180       | -19.95  | -14.86 | -14.23 | -7.55 | -18.96 | 0.13  | -0.61 | -2.38 | -7.84  | -10.03 | -16.7  | -22.37 | -27.85 |
| 195       | -19.75  | -14.16 | -13.76 | -9.17 | -12.59 | 1.22  | 3.54  | 0.09  | -5.5   | -11.81 | -18.67 | -27.85 | -27.85 |

|     |        |        |        |       |        |       |       |        |        |        |        |        |        |
|-----|--------|--------|--------|-------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 210 | -19.66 | -13.61 | -13.46 | -6.94 | -14.98 | -3.33 | 1.92  | -4.71  | -11.51 | -16.48 | -14.52 | -18.26 | -27.85 |
| 225 | -19.79 | -14.09 | -11.93 | -6.09 | -10.69 | -1.16 | -1.05 | -3.18  | -9.31  | -14.79 | -10.52 | -11.6  | -27.85 |
| 240 | -20.22 | -15.4  | -14.09 | -6.26 | -8.95  | -0.46 | 4.01  | 1.44   | -10.48 | -22.49 | -15.76 | -10    | -27.85 |
| 255 | -18.96 | -17.94 | -11.6  | -6.47 | -13.45 | 0.54  | 3.05  | -0.27  | -18.68 | -12.54 | -19.04 | -17.42 | -27.85 |
| 270 | -19.18 | -23.32 | -17.9  | -7.35 | -12.52 | 1.45  | 4.24  | -1.21  | -18.24 | -7.37  | -14.34 | -19.74 | -27.85 |
| 285 | -19.13 | -22.46 | -13.51 | -7.37 | -19.28 | 0.34  | 3.63  | -2.23  | -15.1  | -10.44 | -14.63 | -16.34 | -27.85 |
| 300 | -20.13 | -21.08 | -13.11 | -9.53 | -13.5  | -0.87 | -0.54 | -7.3   | -16.1  | -10.88 | -11.71 | -16.63 | -27.85 |
| 315 | -19.83 | -21.02 | -11.18 | -6.97 | -12.04 | 0.92  | 0.68  | -10.16 | -16.64 | -11.63 | -12.71 | -21.84 | -27.85 |
| 330 | -20.39 | -19.11 | -10.09 | -6.81 | -15.08 | 1.17  | 3.29  | -5.21  | -14.87 | -16.5  | -17.87 | -24.34 | -27.85 |
| 345 | -21.45 | -17.69 | -12.74 | -4.72 | -14.46 | 2.64  | 5.72  | -1.98  | -13.55 | -13.63 | -19.51 | -22.84 | -27.85 |

| 5600MHz Composite Gain (1SS) |         |        |        |       |        |      |      |       |        |        |        |        |        |
|------------------------------|---------|--------|--------|-------|--------|------|------|-------|--------|--------|--------|--------|--------|
| Freq                         | 5600.00 |        |        |       |        |      |      |       |        |        |        |        |        |
| Phi\Theta                    | 0       | 15     | 30     | 45    | 60     | 75   | 90   | 105   | 120    | 135    | 150    | 165    | 180    |
| 0                            | -17.38  | -17.69 | -8.14  | -5.73 | -14.83 | 3.09 | 6.89 | 0.14  | -13.03 | -10.5  | -14    | -15.36 | -21.39 |
| 15                           | -17.73  | -16.92 | -8.7   | -5.58 | -13.75 | 0.8  | 5.22 | 0.2   | -13.96 | -7.45  | -12.94 | -14.56 | -21.39 |
| 30                           | -18.28  | -18.05 | -8.73  | -4.22 | -16.97 | 3.63 | 7.3  | 1.51  | -8.52  | -8.85  | -13.32 | -14.94 | -21.39 |
| 45                           | -18     | -18.2  | -10.31 | -5.85 | -12.57 | 3.71 | 7.53 | 2.42  | -10.84 | -10.4  | -13.37 | -13.53 | -21.39 |
| 60                           | -18.65  | -17.49 | -10.53 | -7.4  | -10.24 | 3.58 | 7.68 | 2.92  | -8.58  | -6.25  | -10.26 | -13.37 | -21.39 |
| 75                           | -18.17  | -19.61 | -9.74  | -4.95 | -10.05 | 2.7  | 5.15 | 0.95  | -14.12 | -7.59  | -13.13 | -14.33 | -21.39 |
| 90                           | -17.77  | -19.49 | -9.43  | -3.19 | -12.98 | 2.87 | 5.74 | 1.63  | -9.82  | -9.77  | -10.18 | -11.24 | -21.39 |
| 105                          | -18.23  | -16.43 | -10.97 | -6.94 | -15.24 | 2.88 | 5.33 | 0.85  | -8.34  | -10.45 | -17.69 | -11.49 | -21.39 |
| 120                          | -17.73  | -16.43 | -11.11 | -3.52 | -12.99 | 3.08 | 5.27 | -0.72 | -7.03  | -7.46  | -14.84 | -12.52 | -21.39 |
| 135                          | -17.92  | -16.12 | -9.62  | -6.26 | -11.58 | 2.01 | 5.28 | 0.15  | -10.4  | -7.14  | -13.91 | -12.51 | -21.39 |
| 150                          | -18.54  | -15.21 | -11.81 | -5.28 | -10.11 | 2.28 | 3.88 | -4.1  | -7.49  | -10.2  | -10.66 | -13.19 | -21.39 |
| 165                          | -16.67  | -14.96 | -9.05  | -2.81 | -13.95 | 3.22 | 4.11 | -1.57 | -10.26 | -9.22  | -11.22 | -15.56 | -21.39 |
| 180                          | -16.55  | -15.32 | -8.73  | -2.24 | -17.15 | 3.22 | 3.21 | 0.31  | -7.99  | -7.21  | -10.82 | -17.81 | -21.39 |
| 195                          | -16.91  | -15.04 | -7.7   | -3.62 | -10.69 | 2.99 | 4.62 | 0.76  | -6.01  | -6.89  | -12.79 | -19.71 | -21.39 |
| 210                          | -16.88  | -14.25 | -8.9   | -4.7  | -12.13 | 1.8  | 3.65 | -3    | -11.59 | -10.97 | -12.43 | -14.63 | -21.39 |
| 225                          | -17.02  | -13.55 | -8.1   | -3.87 | -8.99  | 2.67 | 3.29 | 0.01  | -9.55  | -9.03  | -8.54  | -12.12 | -21.39 |
| 240                          | -17.16  | -13.25 | -11.66 | -2.86 | -10.09 | 3.35 | 6.96 | 3.45  | -7.25  | -16.51 | -13.81 | -9.49  | -21.39 |
| 255                          | -16.11  | -14.31 | -10.33 | -2.86 | -11    | 2.91 | 6.06 | 1.39  | -15.73 | -10.02 | -13.71 | -14.03 | -21.39 |
| 270                          | -16.34  | -16.81 | -12.54 | -3.18 | -11.34 | 2.74 | 4.68 | -1.11 | -14.31 | -7.26  | -13.23 | -16.51 | -21.39 |
| 285                          | -16.6   | -18.6  | -10.67 | -2.86 | -12.62 | 2.71 | 5.8  | 0.68  | -12.37 | -9.19  | -13.34 | -13.95 | -21.39 |
| 300                          | -17.29  | -18.96 | -9.8   | -5.07 | -7.75  | 3.1  | 3.51 | -2.95 | -13.7  | -12.43 | -11.28 | -13.24 | -21.39 |
| 315                          | -17.1   | -19.7  | -8.4   | -3.87 | -9.26  | 2.96 | 4.8  | -1.45 | -8.35  | -9.49  | -10.78 | -15.14 | -21.39 |
| 330                          | -17.24  | -18.79 | -6.39  | -5.44 | -13.14 | 4.78 | 5.46 | 0.22  | -8.39  | -13.25 | -12.37 | -18.39 | -21.39 |
| 345                          | -17.3   | -17.87 | -7.06  | -4.08 | -13.53 | 4.61 | 6.35 | -0.42 | -14.26 | -10.17 | -14.18 | -18.27 | -21.39 |

| 5600MHz Composite Gain (2SS) |         |        |       |       |        |      |      |      |        |       |        |        |        |
|------------------------------|---------|--------|-------|-------|--------|------|------|------|--------|-------|--------|--------|--------|
| Freq                         | 5600.00 |        |       |       |        |      |      |      |        |       |        |        |        |
| Phi\Theta                    | 0       | 15     | 30    | 45    | 60     | 75   | 90   | 105  | 120    | 135   | 150    | 165    | 180    |
| 0                            | -20.33  | -19.74 | -10.7 | -8.67 | -17.74 | 0.27 | 4.56 | -2.3 | -15.98 | -13.5 | -16.83 | -17.94 | -23.96 |

|     |        |        |        |        |        |       |      |       |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|-------|------|-------|--------|--------|--------|--------|--------|
| 15  | -20.67 | -19.71 | -11.18 | -8.56  | -16.76 | -2.16 | 2.51 | -2.8  | -16.88 | -10.45 | -15.36 | -17.55 | -23.96 |
| 30  | -21.11 | -20.95 | -11.53 | -7.17  | -19.92 | 0.71  | 4.3  | -1.5  | -11.35 | -11.85 | -16.3  | -17.71 | -23.96 |
| 45  | -20.95 | -20.81 | -13.26 | -8.85  | -15.07 | 0.71  | 4.53 | -0.59 | -13.79 | -12.82 | -15.93 | -15.69 | -23.96 |
| 60  | -21.61 | -20.44 | -13.53 | -10.33 | -13.15 | 0.59  | 4.69 | 0.05  | -11.58 | -8.98  | -12.79 | -16.23 | -23.96 |
| 75  | -20.99 | -21.97 | -12.53 | -7.94  | -13.04 | -0.19 | 2.18 | -2.06 | -15.76 | -10.18 | -15.56 | -17.29 | -23.96 |
| 90  | -20.59 | -22.11 | -12.41 | -6.2   | -15.79 | 0.12  | 2.8  | -1.24 | -10.95 | -12.37 | -11.94 | -13.47 | -23.96 |
| 105 | -21.07 | -19    | -13.9  | -9.89  | -18.22 | -0.13 | 2.43 | -2.05 | -11.33 | -13.2  | -20.64 | -14.02 | -23.96 |
| 120 | -20.61 | -19.01 | -14.05 | -6.53  | -15.29 | 0.34  | 2.68 | -3.72 | -10.03 | -10.4  | -17.81 | -15.42 | -23.96 |
| 135 | -20.87 | -18.51 | -12.52 | -8.82  | -14.44 | -0.93 | 2.32 | -2.8  | -13.4  | -10.14 | -16.9  | -15.43 | -23.96 |
| 150 | -21.51 | -17.36 | -14.56 | -8.15  | -13.05 | -0.49 | 1.01 | -6.43 | -10.49 | -13.12 | -13.54 | -16.16 | -23.96 |
| 165 | -19.68 | -17.08 | -12    | -5.8   | -16.45 | 0.29  | 1.58 | -4.51 | -13.23 | -12.13 | -14.22 | -18.55 | -23.96 |
| 180 | -19.55 | -17.39 | -11.47 | -5.02  | -20.06 | 0.21  | 0.23 | -2.69 | -10.23 | -10.21 | -13.5  | -20.71 | -23.96 |
| 195 | -19.91 | -16.85 | -10.34 | -6.35  | -13.61 | 0.08  | 1.87 | -1.85 | -8.05  | -9.74  | -15.47 | -21.93 | -23.96 |
| 210 | -19.88 | -16.21 | -11.8  | -7.67  | -15.13 | -1    | 0.75 | -5.89 | -13.87 | -13.71 | -15.38 | -17.62 | -23.96 |
| 225 | -20.03 | -16.11 | -11.07 | -6.84  | -11.88 | -0.3  | 0.37 | -2.99 | -11.75 | -11.73 | -11.48 | -14.15 | -23.96 |
| 240 | -20.16 | -16.21 | -14.65 | -5.86  | -11.72 | 0.38  | 3.96 | 0.51  | -10.26 | -19.16 | -16.75 | -12.04 | -23.96 |
| 255 | -19.11 | -17.3  | -13.13 | -5.85  | -13.99 | -0.07 | 3.05 | -1.49 | -18.73 | -13.01 | -16.48 | -17.03 | -23.96 |
| 270 | -19.35 | -19.36 | -15.31 | -6.12  | -14.12 | -0.06 | 2.16 | -3.48 | -17.27 | -9.63  | -15.98 | -19.52 | -23.96 |
| 285 | -19.59 | -21.57 | -13.68 | -5.76  | -15.15 | -0.27 | 2.84 | -2.32 | -15.37 | -11.98 | -16.14 | -16.93 | -23.96 |
| 300 | -20.3  | -21.91 | -12.8  | -7.98  | -10.45 | 0.14  | 0.56 | -5.87 | -16.69 | -13.75 | -13.8  | -16.24 | -23.96 |
| 315 | -20.1  | -22.51 | -11.4  | -6.88  | -12.27 | 0.01  | 1.86 | -3.55 | -10.54 | -12.45 | -13.72 | -17.65 | -23.96 |
| 330 | -20.24 | -21.26 | -9.37  | -8.26  | -16.07 | 1.8   | 2.5  | -2.54 | -10.95 | -16.26 | -15.11 | -21.05 | -23.96 |
| 345 | -20.24 | -20.1  | -9.77  | -6.68  | -16.23 | 1.67  | 3.75 | -3.28 | -16.18 | -13.16 | -16.95 | -21.16 | -23.96 |

| Ant3 |         |        |        |        |        |       |       |        |        |        |        |        |        |
|------|---------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| Freq | 5800.00 |        |        |        |        |       |       |        |        |        |        |        |        |
| 0    | -17.31  | -19.42 | -6.83  | -8.26  | -18.01 | -0.36 | -1.23 | -10.29 | -16.22 | -13.55 | -15.48 | -13.69 | -20.95 |
| 15   | -16.88  | -18.76 | -9.3   | -7.09  | -9.65  | 1.8   | 0.36  | -4.4   | -12.98 | -17.95 | -13.36 | -14.15 | -20.95 |
| 30   | -16.95  | -17.19 | -10.82 | -5.26  | -8.31  | 1.11  | 3.28  | -5.19  | -13.42 | -14.09 | -15.95 | -12.01 | -20.95 |
| 45   | -17.24  | -16.49 | -16.31 | -5.67  | -10.97 | 2.9   | 3.94  | -3.92  | -13.6  | -10.44 | -16.05 | -14.22 | -20.95 |
| 60   | -17.21  | -15.16 | -13.92 | -10.6  | -14.52 | 3.33  | 4.09  | -4.47  | -9.57  | -11.98 | -14.5  | -18.24 | -20.95 |
| 75   | -17.51  | -14.79 | -14.51 | -12.21 | -13.11 | 1.28  | 2.6   | -8.43  | -10.3  | -13.12 | -21.69 | -14.41 | -20.95 |
| 90   | -18.37  | -14.62 | -11.71 | -8.23  | -9.46  | 3.63  | 2.45  | -8.77  | -10.8  | -11.59 | -23.55 | -11.34 | -20.95 |
| 105  | -17.88  | -15.2  | -16.88 | -7.78  | -14.51 | 3.4   | 3.67  | -3.62  | -20.5  | -20.55 | -16.68 | -10.98 | -20.95 |
| 120  | -18.12  | -18.19 | -18.56 | -9.23  | -9.41  | 3.92  | 3.02  | -7.72  | -7.22  | -17.4  | -15.69 | -13.48 | -20.95 |
| 135  | -17.81  | -19.15 | -16.17 | -8.76  | -8.64  | 2.82  | 3.69  | -9.5   | -13.87 | -16.21 | -13.64 | -15.96 | -20.95 |
| 150  | -17.36  | -18.03 | -11.96 | -5.43  | -11.5  | 2.85  | 2.2   | -13.77 | -6.2   | -15.02 | -11.29 | -14.86 | -20.95 |
| 165  | -17.77  | -17.36 | -13.73 | -5.83  | -10.5  | 3.24  | 2.62  | -5.53  | -11.62 | -9.19  | -9.95  | -16.19 | -20.95 |
| 180  | -18.38  | -18.13 | -10.06 | -3.04  | -14.63 | 2.14  | 0     | -5.16  | -10.48 | -11.5  | -12.12 | -14.06 | -20.95 |
| 195  | -17.72  | -19.07 | -7.59  | -2.62  | -11.75 | 0.19  | 1.9   | -5.97  | -11.76 | -9.2   | -12.21 | -15.34 | -20.95 |
| 210  | -17.82  | -18.41 | -5.98  | -5.7   | -9.64  | 0.1   | -1.31 | -17.93 | -12.61 | -15.87 | -17.58 | -17.72 | -20.95 |
| 225  | -18.06  | -17.65 | -7.33  | -7.75  | -18.58 | 0.64  | 0.22  | -11.44 | -10.83 | -13.48 | -12.87 | -15.18 | -20.95 |
| 240  | -17.59  | -16.8  | -7.38  | -7.71  | -8.15  | 1.2   | 3.35  | -5.08  | -9.97  | -21.14 | -15.83 | -15.1  | -20.95 |

|     |        |        |        |        |        |       |       |        |        |        |        |        |        |
|-----|--------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| 255 | -18.26 | -15.27 | -7.01  | -6.85  | -10.35 | 1.39  | 2.8   | -9.64  | -16.44 | -13.61 | -19.56 | -13.85 | -20.95 |
| 270 | -17.32 | -14.58 | -8.76  | -3.77  | -10.21 | -0.79 | -1.98 | -14.41 | -10.34 | -12.77 | -18.81 | -15.43 | -20.95 |
| 285 | -16.75 | -15.92 | -11.14 | -4.44  | -6     | 2.94  | 2.26  | -5.22  | -13.06 | -16.97 | -20.09 | -17.71 | -20.95 |
| 300 | -16.72 | -17.64 | -6.19  | -6.4   | -5.34  | 2.01  | 2.71  | -7.21  | -18.63 | -15.95 | -12.97 | -20.95 | -20.95 |
| 315 | -17.46 | -17.78 | -3.45  | -4.92  | -10.22 | 0.44  | 4.16  | -1.85  | -9.49  | -16.73 | -15.39 | -19.58 | -20.95 |
| 330 | -17.43 | -17.67 | -3.91  | -8.37  | -11.18 | 3.94  | -0.58 | -4.62  | -13.15 | -22.92 | -23.76 | -15.37 | -20.95 |
| 345 | -17.97 | -18.36 | -5.04  | -11.99 | -12.77 | -0.93 | -1.63 | -10.94 | -12.94 | -16.91 | -19.55 | -12.75 | -20.95 |
| 0   | -17.31 | -19.42 | -6.83  | -8.26  | -18.01 | -0.36 | -1.23 | -10.29 | -16.22 | -13.55 | -15.48 | -13.69 | -20.95 |

| Ant4      |         |        |        |        |        |       |       |        |        |        |        |        |        |
|-----------|---------|--------|--------|--------|--------|-------|-------|--------|--------|--------|--------|--------|--------|
| Freq      | 5800.00 |        |        |        |        |       |       |        |        |        |        |        |        |
| Phi\Theta | 0       | 15     | 30     | 45     | 60     | 75    | 90    | 105    | 120    | 135    | 150    | 165    | 180    |
| 0         | -14.43  | -11.84 | -8.33  | -7.97  | -15.17 | 3.82  | 5.7   | -9.18  | -9.33  | -17.31 | -12.05 | -16.51 | -20.58 |
| 15        | -14.23  | -11.59 | -9.38  | -8.19  | -16.06 | 2.86  | 5.52  | -6.11  | -11.59 | -20.95 | -16.58 | -20.58 | -20.58 |
| 30        | -14.72  | -10.72 | -8.47  | -6.03  | -11.09 | 2.02  | 3.69  | -11.01 | -12.54 | -17.02 | -14.46 | -16.24 | -20.58 |
| 45        | -14.15  | -11.75 | -7.43  | -6.88  | -9.4   | 0.96  | 4.88  | -10.86 | -7.63  | -14.71 | -17.46 | -15.85 | -20.58 |
| 60        | -15     | -15.81 | -9.15  | -8.92  | -8.04  | -0.36 | 5.29  | -3.08  | -8.99  | -12.27 | -17.12 | -17.59 | -20.58 |
| 75        | -14.92  | -15.32 | -15.75 | -10.38 | -16.17 | 0.85  | 1.08  | -5.71  | -12.6  | -7.49  | -21.6  | -14.17 | -20.58 |
| 90        | -14.68  | -13.76 | -11.04 | -6.22  | -17.48 | 1.01  | 0.53  | -3.42  | -23.99 | -6.01  | -16.83 | -14.7  | -20.58 |
| 105       | -14.66  | -14.03 | -10.22 | -5.54  | -10.86 | 0.56  | -0.93 | -7.02  | -12.61 | -11.1  | -19.37 | -12.93 | -20.58 |
| 120       | -14.46  | -12.71 | -11.41 | -8.11  | -8.12  | 1.11  | 0.04  | -8.69  | -13.53 | -12.55 | -14.52 | -12.74 | -20.58 |
| 135       | -14.12  | -12.61 | -10.27 | -9.49  | -6.85  | 0.77  | 1.32  | -6.05  | -16.67 | -12.4  | -14.35 | -14.25 | -20.58 |
| 150       | -13.85  | -12.01 | -9.31  | -12.56 | -8.06  | 0.36  | -0.36 | -6.55  | -12.75 | -12.52 | -14    | -17.8  | -20.58 |
| 165       | -13.58  | -10.86 | -9.98  | -9.67  | -11.44 | 0.96  | -1.38 | -4.76  | -14.66 | -11.15 | -16.2  | -18.03 | -20.58 |
| 180       | -13     | -9.54  | -9.55  | -6.26  | -9.94  | 1.34  | 0.32  | -3.7   | -12.03 | -9.53  | -18.61 | -16.86 | -20.58 |
| 195       | -13.04  | -9.42  | -10.12 | -6.14  | -7.62  | 1.31  | 2.56  | -0.29  | -12.7  | -11.53 | -19.48 | -16.31 | -20.58 |
| 210       | -12.84  | -9.58  | -10.81 | -8.22  | -7.57  | -0.1  | 1.33  | -10.33 | -19.84 | -16.43 | -16.6  | -13.02 | -20.58 |
| 225       | -13.04  | -10.18 | -8.69  | -9.29  | -6.95  | -1.25 | 0.66  | -6.79  | -16.9  | -15.55 | -11.19 | -10.1  | -20.58 |
| 240       | -12.78  | -12.98 | -9.87  | -7.31  | -9.09  | -0.48 | 3.46  | -1.82  | -18.7  | -13.96 | -10.17 | -10.87 | -20.58 |
| 255       | -12.95  | -15.24 | -11.73 | -7.64  | -11.9  | 1.03  | 2.87  | -6.26  | -10.92 | -11.03 | -11.16 | -13.91 | -20.58 |
| 270       | -12.83  | -14.35 | -12.79 | -6.64  | -13.97 | 2.3   | 3.72  | -6.5   | -8.59  | -7.2   | -12.87 | -12.38 | -20.58 |
| 285       | -12.74  | -14.61 | -12.94 | -8.07  | -13.13 | 1.9   | 0.78  | -8.51  | -9.4   | -10.19 | -16.06 | -9.93  | -20.58 |
| 300       | -13.02  | -12.72 | -9.04  | -9.07  | -11.71 | 1.67  | -2.06 | -14.04 | -9.89  | -8.3   | -17.31 | -12.06 | -20.58 |
| 315       | -13.06  | -12.6  | -8.62  | -7.89  | -10    | 1.75  | 1.03  | -13.96 | -15.53 | -12.47 | -15.33 | -14.05 | -20.58 |
| 330       | -13.65  | -12.25 | -11.6  | -9.58  | -8.24  | 2.52  | 3.27  | -11.22 | -9.84  | -14.93 | -12.33 | -11.34 | -20.58 |
| 345       | -14.08  | -11.67 | -8.76  | -8.49  | -15.91 | 3.98  | 4.6   | -9.96  | -10.83 | -27.15 | -11.52 | -10.48 | -20.58 |

| 5800MHz Composite Gain (1SS) |         |        |       |       |        |      |      |       |       |        |        |        |        |
|------------------------------|---------|--------|-------|-------|--------|------|------|-------|-------|--------|--------|--------|--------|
| Freq                         | 5800.00 |        |       |       |        |      |      |       |       |        |        |        |        |
| Phi\Theta                    | 0       | 15     | 30    | 45    | 60     | 75   | 90   | 105   | 120   | 135    | 150    | 165    | 180    |
| 0                            | -12.74  | -11.82 | -4.54 | -5.1  | -13.47 | 4.99 | 5.92 | -6.71 | -9.1  | -12.22 | -10.59 | -11.98 | -17.75 |
| 15                           | -12.45  | -11.45 | -6.33 | -4.61 | -9.27  | 5.36 | 6.33 | -2.2  | -9.25 | -16.31 | -11.81 | -13.77 | -17.75 |
| 30                           | -12.75  | -10.36 | -6.56 | -2.63 | -6.58  | 4.59 | 6.5  | -4.61 | -9.96 | -12.42 | -12.16 | -10.86 | -17.75 |

|     |        |        |        |       |        |      |      |        |        |        |        |        |        |
|-----|--------|--------|--------|-------|--------|------|------|--------|--------|--------|--------|--------|--------|
| 45  | -12.55 | -10.79 | -7.77  | -3.24 | -7.14  | 4.99 | 7.43 | -3.71  | -7.1   | -9.31  | -13.72 | -11.99 | -17.75 |
| 60  | -13.03 | -12.47 | -8.2   | -6.71 | -7.68  | 4.69 | 7.72 | -0.74  | -6.27  | -9.11  | -12.7  | -14.9  | -17.75 |
| 75  | -13.11 | -12.04 | -12.1  | -8.24 | -11.5  | 4.08 | 4.88 | -3.95  | -8.36  | -6.85  | -18.64 | -11.28 | -17.75 |
| 90  | -13.32 | -11.17 | -8.36  | -4.16 | -9.57  | 5.43 | 4.55 | -2.68  | -12.09 | -5.35  | -16.55 | -9.85  | -17.75 |
| 105 | -13.11 | -11.59 | -9.92  | -3.58 | -9.49  | 5.1  | 4.68 | -2.15  | -12.68 | -11.59 | -14.91 | -8.89  | -17.75 |
| 120 | -13.09 | -12.02 | -11.26 | -5.64 | -5.73  | 5.64 | 4.67 | -5.18  | -6.8   | -11.63 | -12.08 | -10.09 | -17.75 |
| 135 | -12.76 | -12.27 | -9.72  | -6.11 | -4.69  | 4.86 | 5.59 | -4.6   | -12.15 | -11.09 | -10.98 | -12.05 | -17.75 |
| 150 | -12.42 | -11.5  | -7.53  | -5.27 | -6.6   | 4.7  | 4.02 | -6.42  | -5.86  | -10.67 | -9.53  | -13.2  | -17.75 |
| 165 | -12.42 | -10.51 | -8.64  | -4.53 | -7.95  | 5.18 | 3.86 | -2.13  | -10    | -7.11  | -9.52  | -14.05 | -17.75 |
| 180 | -12.27 | -9.8   | -6.79  | -1.49 | -8.96  | 4.76 | 3.17 | -1.39  | -8.21  | -7.45  | -11.76 | -12.34 | -17.75 |
| 195 | -12.06 | -9.96  | -5.75  | -1.19 | -6.43  | 3.78 | 5.25 | 0.34   | -9.21  | -7.28  | -12.1  | -12.8  | -17.75 |
| 210 | -11.97 | -9.91  | -5.05  | -3.86 | -5.53  | 3.01 | 3.12 | -10.31 | -12.48 | -13.14 | -14.07 | -12.05 | -17.75 |
| 225 | -12.18 | -10.13 | -4.97  | -5.48 | -7.94  | 2.76 | 3.45 | -5.8   | -10.34 | -11.44 | -8.98  | -9.26  | -17.75 |
| 240 | -11.85 | -11.67 | -5.53  | -4.5  | -5.6   | 3.41 | 6.41 | -0.29  | -10.27 | -13.82 | -9.54  | -9.72  | -17.75 |
| 255 | -12.2  | -12.25 | -6.04  | -4.23 | -8.08  | 4.22 | 5.84 | -4.78  | -10.24 | -9.22  | -11.37 | -10.87 | -17.75 |
| 270 | -11.78 | -11.45 | -7.53  | -2.08 | -8.88  | 3.9  | 4.34 | -6.57  | -6.41  | -6.54  | -12.33 | -10.76 | -17.75 |
| 285 | -11.51 | -12.23 | -8.98  | -3.06 | -5.84  | 5.44 | 4.56 | -3.7   | -8.03  | -9.93  | -14.83 | -9.97  | -17.75 |
| 300 | -11.67 | -11.83 | -4.49  | -4.62 | -4.94  | 4.85 | 3.66 | -6.96  | -10.19 | -8.3   | -11.86 | -12.4  | -17.75 |
| 315 | -11.98 | -11.8  | -2.65  | -3.27 | -7.1   | 4.13 | 5.74 | -2.94  | -8.99  | -11.33 | -12.35 | -13.37 | -17.75 |
| 330 | -12.33 | -11.53 | -3.92  | -5.94 | -6.58  | 6.27 | 4.57 | -4.3   | -8.33  | -15.03 | -13.28 | -10.11 | -17.75 |
| 345 | -12.8  | -11.38 | -3.69  | -7.06 | -11.19 | 4.88 | 5.04 | -7.43  | -8.81  | -17.59 | -11.63 | -8.53  | -17.75 |

| 5800MHz Composite Gain (2SS) |         |        |        |       |        |      |      |        |        |        |        |        |        |
|------------------------------|---------|--------|--------|-------|--------|------|------|--------|--------|--------|--------|--------|--------|
| Freq                         | 5800.00 |        |        |       |        |      |      |        |        |        |        |        |        |
| Phi\Theta                    | 0       | 15     | 30     | 45    | 60     | 75   | 90   | 105    | 120    | 135    | 150    | 165    | 180    |
| 0                            | -15.64  | -14.15 | -7.52  | -8.11 | -16.36 | 2.21 | 3.49 | -9.7   | -11.53 | -15.04 | -13.44 | -14.88 | -20.76 |
| 15                           | -15.36  | -13.84 | -9.34  | -7.61 | -11.77 | 2.36 | 3.66 | -5.17  | -12.23 | -19.2  | -14.68 | -16.27 | -20.76 |
| 30                           | -15.69  | -12.85 | -9.49  | -5.63 | -9.48  | 1.59 | 3.49 | -7.19  | -12.96 | -15.31 | -15.14 | -13.63 | -20.76 |
| 45                           | -15.43  | -13.5  | -9.91  | -6.23 | -10.12 | 2.04 | 4.43 | -6.13  | -9.66  | -12.07 | -16.7  | -14.96 | -20.76 |
| 60                           | -15.97  | -15.47 | -10.91 | -9.68 | -10.17 | 1.86 | 4.73 | -3.72  | -9.27  | -12.12 | -15.62 | -17.9  | -20.76 |
| 75                           | -16.03  | -15.05 | -15.09 | -11.2 | -14.38 | 1.07 | 1.9  | -6.86  | -11.3  | -9.45  | -21.65 | -14.29 | -20.76 |
| 90                           | -16.15  | -14.17 | -11.36 | -7.11 | -11.84 | 2.51 | 1.59 | -5.32  | -13.61 | -7.96  | -19    | -12.7  | -20.76 |
| 105                          | -15.98  | -14.58 | -12.38 | -6.52 | -12.31 | 2.21 | 1.95 | -5     | -14.97 | -13.64 | -17.82 | -11.85 | -20.76 |
| 120                          | -15.92  | -14.64 | -13.66 | -8.64 | -8.72  | 2.74 | 1.78 | -8.18  | -9.32  | -14.33 | -15.07 | -13.1  | -20.76 |
| 135                          | -15.59  | -14.75 | -12.29 | -9.11 | -7.65  | 1.91 | 2.66 | -7.44  | -15.05 | -13.9  | -13.98 | -15.02 | -20.76 |
| 150                          | -15.26  | -14.05 | -10.44 | -7.67 | -9.45  | 1.78 | 1.1  | -8.81  | -8.34  | -13.59 | -12.44 | -16.09 | -20.76 |
| 165                          | -15.19  | -12.99 | -11.46 | -7.34 | -10.95 | 2.25 | 1.06 | -5.13  | -12.88 | -10.06 | -12.04 | -17.01 | -20.76 |
| 180                          | -14.91  | -11.99 | -9.8   | -4.36 | -11.68 | 1.76 | 0.16 | -4.37  | -11.19 | -10.41 | -14.25 | -15.24 | -20.76 |
| 195                          | -14.78  | -11.98 | -8.67  | -4.03 | -9.21  | 0.78 | 2.24 | -2.26  | -12.21 | -10.21 | -14.48 | -15.8  | -20.76 |
| 210                          | -14.65  | -12.06 | -7.76  | -6.78 | -8.48  | 0    | 0.21 | -12.65 | -14.87 | -16.14 | -17.06 | -14.76 | -20.76 |
| 225                          | -14.86  | -12.48 | -7.96  | -8.45 | -9.67  | -0.2 | 0.44 | -8.52  | -12.88 | -14.39 | -11.95 | -11.94 | -20.76 |
| 240                          | -14.55  | -14.48 | -8.45  | -7.51 | -8.6   | 0.44 | 3.4  | -3.15  | -12.44 | -16.21 | -12.14 | -12.49 | -20.76 |
| 255                          | -14.84  | -15.26 | -8.76  | -7.23 | -11.06 | 1.21 | 2.83 | -7.63  | -12.86 | -12.13 | -13.59 | -13.88 | -20.76 |

|     |        |        |        |       |        |      |      |        |        |        |        |        |        |
|-----|--------|--------|--------|-------|--------|------|------|--------|--------|--------|--------|--------|--------|
| 270 | -14.52 | -14.46 | -10.32 | -4.97 | -11.7  | 1.02 | 1.74 | -8.86  | -9.38  | -9.15  | -14.9  | -13.64 | -20.76 |
| 285 | -14.3  | -15.22 | -11.95 | -5.89 | -8.24  | 2.45 | 1.58 | -6.56  | -10.86 | -12.37 | -17.62 | -12.27 | -20.76 |
| 300 | -14.49 | -14.52 | -7.39  | -7.53 | -7.45  | 1.84 | 0.95 | -9.4   | -12.36 | -10.62 | -14.62 | -14.54 | -20.76 |
| 315 | -14.73 | -14.46 | -5.31  | -6.16 | -10.11 | 1.14 | 2.87 | -4.6   | -11.54 | -14.1  | -15.36 | -15.99 | -20.76 |
| 330 | -15.14 | -14.17 | -6.24  | -8.93 | -9.47  | 3.29 | 1.76 | -6.77  | -11.19 | -17.3  | -15.04 | -12.9  | -20.76 |
| 345 | -15.6  | -13.84 | -6.51  | -9.9  | -14.06 | 2.18 | 2.52 | -10.42 | -11.76 | -19.53 | -13.9  | -11.47 | -20.76 |

## 5G\_2

| Ant5      |         |        |       |       |       |       |        |        |        |        |        |        |        |
|-----------|---------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Freq      | 5200.00 |        |       |       |       |       |        |        |        |        |        |        |        |
| Phi\Theta | 0       | 15     | 30    | 45    | 60    | 75    | 90     | 105    | 120    | 135    | 150    | 165    | 180    |
| 0         | -12.26  | -7.85  | -3.89 | 1.65  | -3.08 | -0.52 | -6.01  | -11.5  | -14.65 | -9.61  | -17.24 | -14.04 | -16.43 |
| 15        | -12.64  | -7.47  | -4.12 | -0.36 | -2.18 | -2.46 | -10.68 | -10.3  | -11.27 | -12.57 | -16.14 | -16.43 | -16.43 |
| 30        | -12.34  | -7.74  | -4.39 | 0.92  | -2.13 | -1.13 | -5.89  | -8.71  | -11.11 | -11.6  | -17.35 | -11.39 | -16.43 |
| 45        | -12.22  | -8.38  | -2.25 | -2.1  | -1.42 | -2.79 | -6.4   | -12.76 | -7.78  | -13.46 | -18.35 | -8.35  | -16.43 |
| 60        | -11.97  | -9.62  | -3.16 | 0.06  | -1.11 | -3.2  | -11.5  | -13.97 | -14.43 | -12.86 | -16.67 | -7.77  | -16.43 |
| 75        | -10.97  | -10.08 | -3.87 | -0.1  | -1.8  | -3.52 | -5.87  | -12.92 | -11.79 | -12.47 | -14.4  | -8.68  | -16.43 |
| 90        | -11.87  | -8.4   | -3.66 | 0.32  | 0.47  | 0.02  | -2.81  | -8.14  | -20.51 | -16.56 | -11.41 | -11.09 | -16.43 |
| 105       | -12.94  | -7.26  | -2.88 | -1.48 | -1.72 | -2.41 | -8.37  | -14.96 | -20.65 | -15.51 | -12.26 | -8.5   | -16.43 |
| 120       | -11.64  | -7.49  | -2.45 | 1.16  | 0.43  | -0.22 | -6.88  | -17.86 | -17.62 | -9.98  | -11.87 | -8.57  | -16.43 |
| 135       | -11.69  | -7.87  | -2.64 | 1.85  | 1.9   | 1.78  | -6.03  | -12.48 | -13.15 | -13.53 | -12.73 | -10.87 | -16.43 |
| 150       | -11.9   | -9.14  | -4.11 | 1.27  | 1.05  | 0.54  | -3.83  | -9.24  | -9.83  | -11.41 | -14.34 | -11.53 | -16.43 |
| 165       | -10.62  | -10.7  | -5.1  | -0.54 | 2.49  | 3.54  | 0.68   | -7.14  | -10.82 | -10.43 | -13.07 | -10.81 | -16.43 |
| 180       | -11.71  | -11.05 | -5.33 | 0.25  | 2.75  | 3.57  | -0.04  | -7.32  | -12.21 | -9.45  | -10.32 | -11.15 | -16.43 |
| 195       | -12.8   | -11.91 | -6.95 | 0.65  | 1.94  | 3     | -1.2   | -5.05  | -7.51  | -12.92 | -13.69 | -11.37 | -16.43 |
| 210       | -11.59  | -12.04 | -6.71 | 0.16  | 3.04  | 3.6   | -4.25  | -4.24  | -4.21  | -11.94 | -9.89  | -11.37 | -16.43 |
| 225       | -11.98  | -11.22 | -4.52 | 0.92  | 3.33  | 2.69  | -2.15  | -5.44  | -8.45  | -16.45 | -9.5   | -12.04 | -16.43 |
| 240       | -12.56  | -8.69  | -1.93 | 2.36  | 2.21  | 3.54  | -0.7   | -3.57  | -8.76  | -15.97 | -10.12 | -10.18 | -16.43 |
| 255       | -11.73  | -7.44  | -2.3  | 0.03  | 1.15  | 4.14  | 0.48   | -2.76  | -6.66  | -10.29 | -9.29  | -10.96 | -16.43 |
| 270       | -12.09  | -7.68  | -5.18 | 1.86  | 2.2   | 1.77  | -2.05  | -3.43  | -7.75  | -14.19 | -8.46  | -15.53 | -16.43 |
| 285       | -12.51  | -7.94  | -4.75 | 1.96  | 1.18  | 3.95  | 0.2    | -3.46  | -6.06  | -7.41  | -15.86 | -10.9  | -16.43 |
| 300       | -12.29  | -8.89  | -2.45 | 1.05  | 1.09  | 1.79  | -1.27  | -5.36  | -9.65  | -10.1  | -17.93 | -8.29  | -16.43 |
| 315       | -12.55  | -8.6   | -2.14 | 2.6   | -0.76 | 1.83  | -5.62  | -9.5   | -11.11 | -16.94 | -11.86 | -9.75  | -16.43 |
| 330       | -12.65  | -7.77  | -2.24 | 3.11  | -1.12 | 3.39  | -0.78  | -3.78  | -11.64 | -14.06 | -10.44 | -13.16 | -16.43 |
| 345       | -12.19  | -7.81  | -3.43 | 2.59  | -1.48 | 0.74  | -2.32  | -3.88  | -8.79  | -8.67  | -11.87 | -14.31 | -16.43 |

| Ant6      |         |       |       |      |       |       |        |        |        |        |        |       |        |
|-----------|---------|-------|-------|------|-------|-------|--------|--------|--------|--------|--------|-------|--------|
| Freq      | 5200.00 |       |       |      |       |       |        |        |        |        |        |       |        |
| Phi\Theta | 0       | 15    | 30    | 45   | 60    | 75    | 90     | 105    | 120    | 135    | 150    | 165   | 180    |
| 0         | -10.13  | -9.52 | -4.07 | 1.34 | 1.56  | 2.47  | -13.48 | -8.58  | -9.44  | -8.9   | -9.11  | -3.83 | -18.05 |
| 15        | -10.21  | -9.51 | -3.04 | 0.76 | 2.75  | 3.72  | -1.34  | -9.93  | -13.39 | -5.54  | -5.45  | -4.43 | -18.05 |
| 30        | -11.03  | -8.77 | -2.23 | 1    | 1.08  | 3.68  | -1.28  | -9     | -10.14 | -7.19  | -4.95  | -3.97 | -18.05 |
| 45        | -10.4   | -9.29 | -2.25 | 1.88 | -0.12 | 1.95  | -16.73 | -7.64  | -9.94  | -19.05 | -8.98  | -4.52 | -18.05 |
| 60        | -10.45  | -9.26 | -1.31 | 2.18 | -0.29 | -1.36 | -6.92  | -11.58 | -12.42 | -12.88 | -17.12 | -7.64 | -18.05 |

|     |        |       |       |       |       |       |        |        |        |        |        |        |        |
|-----|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| 75  | -10.27 | -8.02 | -0.48 | 3.23  | 2.36  | 3.05  | -3.6   | -4.55  | -8.12  | -12.46 | -11.9  | -12.67 | -18.05 |
| 90  | -9.39  | -6.46 | -0.93 | 4.01  | 3.16  | 4.31  | -0.05  | -6.51  | -9.48  | -8.47  | -12.66 | -14.4  | -18.05 |
| 105 | -9.4   | -5.61 | -1.48 | 3.49  | 2.41  | 3.45  | -0.12  | -8.88  | -11.83 | -9.75  | -12.92 | -15.97 | -18.05 |
| 120 | -9.67  | -5.07 | 0.07  | 2.86  | 2.25  | 2.41  | -0.89  | -5.31  | -11.11 | -8.24  | -14.28 | -15.28 | -18.05 |
| 135 | -10.33 | -4.84 | -0.72 | 3.1   | 0.99  | 3.76  | -0.1   | -2.21  | -11.52 | -15.76 | -16.95 | -13.75 | -18.05 |
| 150 | -10.62 | -5.01 | -1.06 | 1.98  | 1.02  | 2.12  | -2.58  | -2.74  | -9.7   | -11.33 | -14.96 | -14.57 | -18.05 |
| 165 | -10.91 | -5.36 | -1.11 | 1.31  | 0.07  | 0.7   | -2.34  | -5.83  | -10.73 | -10.47 | -14.41 | -16.36 | -18.05 |
| 180 | -10.78 | -5.74 | -0.66 | 0.18  | -2.27 | -1.07 | -4.04  | -13.76 | -7.96  | -14    | -14.03 | -16.5  | -18.05 |
| 195 | -10.72 | -5.97 | -1.31 | -0.51 | -2.17 | -1.92 | -8.03  | -12.92 | -9.76  | -14.06 | -15.47 | -18.05 | -18.05 |
| 210 | -10.32 | -6.1  | -1.94 | 0.19  | 0.26  | 0.38  | -1.95  | -6.4   | -7.95  | -16.9  | -17.88 | -17.43 | -18.05 |
| 225 | -10.82 | -6.38 | -2.18 | 2.16  | 0.15  | 2.07  | 0.5    | -9.91  | -6.92  | -12.88 | -11.58 | -11.48 | -18.05 |
| 240 | -11.36 | -6.92 | -2.11 | 3.94  | 0.37  | 3.32  | -0.3   | -6.59  | -7.68  | -9.74  | -10.78 | -9.54  | -18.05 |
| 255 | -11.56 | -7.62 | -2.52 | 3.64  | -0.78 | 1.33  | -6.69  | -7.59  | -8.02  | -13.37 | -6.84  | -9.36  | -18.05 |
| 270 | -11.82 | -8.46 | -1.41 | 3.71  | -1.65 | 2     | -5.02  | -7.74  | -9.67  | -15.43 | -11.08 | -8.33  | -18.05 |
| 285 | -11.86 | -9.1  | -1.53 | 1.6   | -2.37 | 1.6   | -5.82  | -5.04  | -7.17  | -14.8  | -11.95 | -7.12  | -18.05 |
| 300 | -11.95 | -8.87 | -3.35 | 1.2   | -3.06 | -0.51 | -11.09 | -6.25  | -6.11  | -9.92  | -15.38 | -6.52  | -18.05 |
| 315 | -10.9  | -8.4  | -6.32 | 1.35  | -1.81 | 0.55  | -4.4   | -6.08  | -7.76  | -7.97  | -10.06 | -7.68  | -18.05 |
| 330 | -11.16 | -8    | -6.24 | 0.34  | 0.51  | 0.01  | -5     | -11.07 | -7.66  | -8.34  | -11.72 | -5.79  | -18.05 |
| 345 | -10.81 | -7.57 | -5.73 | 0.3   | 0.5   | 0.68  | -4.27  | -8.93  | -6.71  | -11.68 | -11.71 | -5.43  | -18.05 |

| 5200MHz Composite Gain (1SS) |         |       |       |      |      |      |       |       |        |        |        |        |        |
|------------------------------|---------|-------|-------|------|------|------|-------|-------|--------|--------|--------|--------|--------|
| Freq                         | 5200.00 |       |       |      |      |      |       |       |        |        |        |        |        |
| Phi\Theta                    | 0       | 15    | 30    | 45   | 60   | 75   | 90    | 105   | 120    | 135    | 150    | 165    | 180    |
| 0                            | -8.12   | -5.63 | -0.97 | 4.51 | 2.56 | 4.11 | -5.96 | -6.91 | -8.65  | -6.24  | -9.25  | -4.5   | -14.19 |
| 15                           | -8.33   | -5.42 | -0.55 | 3.23 | 3.64 | 4.18 | -1.8  | -7.1  | -9.26  | -5.35  | -6.23  | -5.49  | -14.19 |
| 30                           | -8.65   | -5.23 | -0.23 | 3.97 | 2.63 | 4.61 | -0.27 | -5.84 | -7.6   | -6.11  | -6.09  | -3.9   | -14.19 |
| 45                           | -8.25   | -5.81 | 0.76  | 3.13 | 2.26 | 2.91 | -7.1  | -6.82 | -5.78  | -12.8  | -9.45  | -3.22  | -14.19 |
| 60                           | -8.17   | -6.43 | 0.82  | 4.19 | 2.32 | 0.78 | -5.9  | -9.68 | -10.36 | -9.86  | -13.88 | -4.69  | -14.19 |
| 75                           | -7.6    | -5.98 | 1     | 4.73 | 3.54 | 3.38 | -1.65 | -4.75 | -6.75  | -9.45  | -10.05 | -7.44  | -14.19 |
| 90                           | -7.53   | -4.37 | 0.82  | 5.37 | 4.93 | 5.44 | 1.69  | -4.28 | -10.34 | -8.6   | -9     | -9.58  | -14.19 |
| 105                          | -7.98   | -3.39 | 0.86  | 4.37 | 3.6  | 4.02 | -0.29 | -8.39 | -12.16 | -9.15  | -9.57  | -8.45  | -14.19 |
| 120                          | -7.59   | -3.19 | 1.91  | 5.06 | 4.4  | 4.2  | -0.37 | -6.48 | -10.76 | -6.06  | -9.98  | -8.28  | -14.19 |
| 135                          | -7.97   | -3.21 | 1.38  | 5.51 | 4.47 | 5.84 | 0.44  | -2.9  | -9.29  | -11.56 | -11.58 | -9.18  | -14.19 |
| 150                          | -8.23   | -3.82 | 0.56  | 4.64 | 4.05 | 4.38 | -0.17 | -2.39 | -6.75  | -8.36  | -11.63 | -9.91  | -14.19 |
| 165                          | -7.75   | -4.62 | 0.13  | 3.44 | 4.37 | 5.25 | 2.31  | -3.45 | -7.76  | -7.44  | -10.7  | -10.14 | -14.19 |
| 180                          | -8.22   | -4.99 | 0.33  | 3.23 | 3.61 | 4.57 | 1.2   | -6.95 | -6.82  | -8.42  | -8.97  | -10.41 | -14.19 |
| 195                          | -8.69   | -5.43 | -0.67 | 3.1  | 3.14 | 3.89 | -0.95 | -5.11 | -5.55  | -10.46 | -11.52 | -11.07 | -14.19 |
| 210                          | -7.92   | -5.56 | -0.99 | 3.19 | 4.77 | 5.15 | -0.01 | -2.24 | -2.87  | -11.06 | -9.99  | -10.87 | -14.19 |
| 225                          | -8.37   | -5.46 | -0.26 | 4.57 | 4.9  | 5.4  | 2.29  | -4.38 | -4.64  | -11.47 | -7.47  | -8.75  | -14.19 |
| 240                          | -8.93   | -4.75 | 0.99  | 6.2  | 4.35 | 6.44 | 2.51  | -1.94 | -5.19  | -9.3   | -7.43  | -6.84  | -14.19 |
| 255                          | -8.63   | -4.52 | 0.6   | 5.03 | 3.25 | 5.86 | 0.63  | -1.83 | -4.3   | -8.68  | -4.97  | -7.11  | -14.19 |
| 270                          | -8.94   | -5.05 | -0.08 | 5.84 | 3.5  | 4.9  | -0.4  | -2.31 | -5.65  | -11.78 | -6.66  | -8.19  | -14.19 |
| 285                          | -9.17   | -5.49 | 0.02  | 4.79 | 2.6  | 5.86 | 0.71  | -1.2  | -3.59  | -7.33  | -10.68 | -5.8   | -14.19 |

|     |       |       |       |      |      |      |       |       |       |       |        |       |        |
|-----|-------|-------|-------|------|------|------|-------|-------|-------|-------|--------|-------|--------|
| 300 | -9.11 | -5.87 | 0.12  | 4.14 | 2.27 | 3.73 | -1.85 | -2.78 | -4.69 | -7    | -13.55 | -4.35 | -14.19 |
| 315 | -8.68 | -5.49 | -0.97 | 5.01 | 1.74 | 4.22 | -1.98 | -4.61 | -6.26 | -8.33 | -7.9   | -5.64 | -14.19 |
| 330 | -8.86 | -4.87 | -1    | 4.85 | 2.74 | 4.87 | 0.37  | -3.67 | -6.41 | -7.73 | -8.05  | -5.71 | -14.19 |
| 345 | -8.46 | -4.68 | -1.49 | 4.53 | 2.58 | 3.72 | -0.23 | -3.03 | -4.68 | -7.03 | -8.78  | -5.77 | -14.19 |

| 5200MHz Composite Gain (2SS) |         |       |       |      |       |       |       |        |        |        |        |        |        |
|------------------------------|---------|-------|-------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Freq                         | 5200.00 |       |       |      |       |       |       |        |        |        |        |        |        |
| Phi\Theta                    | 0       | 15    | 30    | 45   | 60    | 75    | 90    | 105    | 120    | 135    | 150    | 165    | 180    |
| 0                            | -11.07  | -8.61 | -3.98 | 1.5  | -0.17 | 1.23  | -8.3  | -9.8   | -11.31 | -9.24  | -11.5  | -6.45  | -17.16 |
| 15                           | -11.26  | -8.37 | -3.55 | 0.24 | 0.95  | 1.65  | -3.87 | -10.11 | -12.2  | -7.77  | -8.1   | -7.17  | -17.16 |
| 30                           | -11.64  | -8.22 | -3.18 | 0.96 | -0.23 | 1.91  | -3    | -8.85  | -10.6  | -8.86  | -7.72  | -6.26  | -17.16 |
| 45                           | -11.22  | -8.81 | -2.25 | 0.33 | -0.72 | 0.2   | -9.03 | -9.49  | -8.73  | -15.41 | -11.52 | -6.03  | -17.16 |
| 60                           | -11.14  | -9.44 | -2.14 | 1.25 | -0.68 | -2.18 | -8.63 | -12.61 | -13.31 | -12.87 | -16.89 | -7.7   | -17.16 |
| 75                           | -10.61  | -8.93 | -1.85 | 1.88 | 0.76  | 0.9   | -4.59 | -6.97  | -9.58  | -12.46 | -12.97 | -10.23 | -17.16 |
| 90                           | -10.46  | -7.32 | -2.08 | 2.55 | 2.02  | 2.67  | -1.21 | -7.25  | -12.16 | -10.85 | -11.99 | -12.44 | -17.16 |
| 105                          | -10.82  | -6.36 | -2.12 | 1.68 | 0.82  | 1.44  | -2.52 | -10.93 | -14.3  | -11.74 | -12.58 | -10.79 | -17.16 |
| 120                          | -10.54  | -6.11 | -1.01 | 2.09 | 1.43  | 1.29  | -2.93 | -8.09  | -13.24 | -9.02  | -12.91 | -10.74 | -17.16 |
| 135                          | -10.96  | -6.1  | -1.57 | 2.52 | 1.47  | 2.88  | -2.12 | -4.83  | -12.26 | -14.5  | -14.35 | -12.08 | -17.16 |
| 150                          | -11.21  | -6.6  | -2.32 | 1.64 | 1.04  | 1.4   | -3.16 | -4.87  | -9.76  | -11.37 | -14.64 | -12.79 | -17.16 |
| 165                          | -10.76  | -7.26 | -2.66 | 0.48 | 1.45  | 2.35  | -0.57 | -6.44  | -10.77 | -10.45 | -13.69 | -12.75 | -17.16 |
| 180                          | -11.22  | -7.63 | -2.4  | 0.22 | 0.93  | 1.84  | -1.59 | -9.44  | -9.58  | -11.15 | -11.79 | -13.05 | -17.16 |
| 195                          | -11.64  | -7.99 | -3.27 | 0.11 | 0.35  | 1.2   | -3.39 | -7.4   | -8.49  | -13.45 | -14.49 | -13.54 | -17.16 |
| 210                          | -10.91  | -8.12 | -3.7  | 0.18 | 1.87  | 2.28  | -2.95 | -5.19  | -5.69  | -13.75 | -12.26 | -13.42 | -17.16 |
| 225                          | -11.36  | -8.16 | -3.19 | 1.58 | 2.02  | 2.39  | -0.63 | -7.12  | -7.62  | -14.31 | -10.42 | -11.75 | -17.16 |
| 240                          | -11.92  | -7.72 | -2.02 | 3.22 | 1.39  | 3.43  | -0.5  | -4.82  | -8.19  | -11.82 | -10.44 | -9.85  | -17.16 |
| 255                          | -11.64  | -7.53 | -2.41 | 2.2  | 0.29  | 2.96  | -1.77 | -4.54  | -7.29  | -11.56 | -7.89  | -10.09 | -17.16 |
| 270                          | -11.95  | -8.05 | -2.9  | 2.88 | 0.69  | 1.89  | -3.29 | -5.07  | -8.6   | -14.77 | -9.58  | -10.58 | -17.16 |
| 285                          | -12.17  | -8.48 | -2.85 | 1.78 | -0.24 | 2.93  | -1.84 | -4.18  | -6.58  | -9.69  | -13.48 | -8.61  | -17.16 |
| 300                          | -12.12  | -8.88 | -2.88 | 1.13 | -0.51 | 0.79  | -3.85 | -5.78  | -7.53  | -10.01 | -16.47 | -7.32  | -17.16 |
| 315                          | -11.65  | -8.5  | -3.75 | 2.02 | -1.25 | 1.24  | -4.97 | -7.46  | -9.12  | -10.46 | -10.87 | -8.59  | -17.16 |
| 330                          | -11.84  | -7.88 | -3.79 | 1.94 | -0.23 | 2.02  | -2.4  | -6.05  | -9.21  | -10.32 | -11.03 | -8.07  | -17.16 |
| 345                          | -11.45  | -7.69 | -4.43 | 1.59 | -0.38 | 0.71  | -3.19 | -5.71  | -7.63  | -9.92  | -11.79 | -7.91  | -17.16 |

| Ant5      |         |        |       |       |       |       |        |        |        |        |        |        |        |
|-----------|---------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Freq      | 5300.00 |        |       |       |       |       |        |        |        |        |        |        |        |
| Phi\Theta | 0       | 15     | 30    | 45    | 60    | 75    | 90     | 105    | 120    | 135    | 150    | 165    | 180    |
| 0         | -12.26  | -7.85  | -3.89 | 1.65  | -3.08 | -0.52 | -6.01  | -11.5  | -14.65 | -9.61  | -17.24 | -14.04 | -16.43 |
| 15        | -12.64  | -7.47  | -4.12 | -0.36 | -2.18 | -2.46 | -10.68 | -10.3  | -11.27 | -12.57 | -16.14 | -16.43 | -16.43 |
| 30        | -12.34  | -7.74  | -4.39 | 0.92  | -2.13 | -1.13 | -5.89  | -8.71  | -11.11 | -11.6  | -17.35 | -11.39 | -16.43 |
| 45        | -12.22  | -8.38  | -2.25 | -2.1  | -1.42 | -2.79 | -6.4   | -12.76 | -7.78  | -13.46 | -18.35 | -8.35  | -16.43 |
| 60        | -11.97  | -9.62  | -3.16 | 0.06  | -1.11 | -3.2  | -11.5  | -13.97 | -14.43 | -12.86 | -16.67 | -7.77  | -16.43 |
| 75        | -10.97  | -10.08 | -3.87 | -0.1  | -1.8  | -3.52 | -5.87  | -12.92 | -11.79 | -12.47 | -14.4  | -8.68  | -16.43 |
| 90        | -11.87  | -8.4   | -3.66 | 0.32  | 0.47  | 0.02  | -2.81  | -8.14  | -20.51 | -16.56 | -11.41 | -11.09 | -16.43 |

|     |        |        |       |       |       |       |       |        |        |        |        |        |        |
|-----|--------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| 105 | -12.94 | -7.26  | -2.88 | -1.48 | -1.72 | -2.41 | -8.37 | -14.96 | -20.65 | -15.51 | -12.26 | -8.5   | -16.43 |
| 120 | -11.64 | -7.49  | -2.45 | 1.16  | 0.43  | -0.22 | -6.88 | -17.86 | -17.62 | -9.98  | -11.87 | -8.57  | -16.43 |
| 135 | -11.69 | -7.87  | -2.64 | 1.85  | 1.9   | 1.78  | -6.03 | -12.48 | -13.15 | -13.53 | -12.73 | -10.87 | -16.43 |
| 150 | -11.9  | -9.14  | -4.11 | 1.27  | 1.05  | 0.54  | -3.83 | -9.24  | -9.83  | -11.41 | -14.34 | -11.53 | -16.43 |
| 165 | -10.62 | -10.7  | -5.1  | -0.54 | 2.49  | 3.54  | 0.68  | -7.14  | -10.82 | -10.43 | -13.07 | -10.81 | -16.43 |
| 180 | -11.71 | -11.05 | -5.33 | 0.25  | 2.75  | 3.57  | -0.04 | -7.32  | -12.21 | -9.45  | -10.32 | -11.15 | -16.43 |
| 195 | -12.8  | -11.91 | -6.95 | 0.65  | 1.94  | 3     | -1.2  | -5.05  | -7.51  | -12.92 | -13.69 | -11.37 | -16.43 |
| 210 | -11.59 | -12.04 | -6.71 | 0.16  | 3.04  | 3.6   | -4.25 | -4.24  | -4.21  | -11.94 | -9.89  | -11.37 | -16.43 |
| 225 | -11.98 | -11.22 | -4.52 | 0.92  | 3.33  | 2.69  | -2.15 | -5.44  | -8.45  | -16.45 | -9.5   | -12.04 | -16.43 |
| 240 | -12.56 | -8.69  | -1.93 | 2.36  | 2.21  | 3.54  | -0.7  | -3.57  | -8.76  | -15.97 | -10.12 | -10.18 | -16.43 |
| 255 | -11.73 | -7.44  | -2.3  | 0.03  | 1.15  | 4.14  | 0.48  | -2.76  | -6.66  | -10.29 | -9.29  | -10.96 | -16.43 |
| 270 | -12.09 | -7.68  | -5.18 | 1.86  | 2.2   | 1.77  | -2.05 | -3.43  | -7.75  | -14.19 | -8.46  | -15.53 | -16.43 |
| 285 | -12.51 | -7.94  | -4.75 | 1.96  | 1.18  | 3.95  | 0.2   | -3.46  | -6.06  | -7.41  | -15.86 | -10.9  | -16.43 |
| 300 | -12.29 | -8.89  | -2.45 | 1.05  | 1.09  | 1.79  | -1.27 | -5.36  | -9.65  | -10.1  | -17.93 | -8.29  | -16.43 |
| 315 | -12.55 | -8.6   | -2.14 | 2.6   | -0.76 | 1.83  | -5.62 | -9.5   | -11.11 | -16.94 | -11.86 | -9.75  | -16.43 |
| 330 | -12.65 | -7.77  | -2.24 | 3.11  | -1.12 | 3.39  | -0.78 | -3.78  | -11.64 | -14.06 | -10.44 | -13.16 | -16.43 |
| 345 | -12.19 | -7.81  | -3.43 | 2.59  | -1.48 | 0.74  | -2.32 | -3.88  | -8.79  | -8.67  | -11.87 | -14.31 | -16.43 |

| Ant6      |         |       |       |       |       |       |        |        |        |        |        |        |        |
|-----------|---------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Freq      | 5300.00 |       |       |       |       |       |        |        |        |        |        |        |        |
| Phi\Theta | 0       | 15    | 30    | 45    | 60    | 75    | 90     | 105    | 120    | 135    | 150    | 165    | 180    |
| 0         | -10.13  | -9.52 | -4.07 | 1.34  | 1.56  | 2.47  | -13.48 | -8.58  | -9.44  | -8.9   | -9.11  | -3.83  | -18.05 |
| 15        | -10.21  | -9.51 | -3.04 | 0.76  | 2.75  | 3.72  | -1.34  | -9.93  | -13.39 | -5.54  | -5.45  | -4.43  | -18.05 |
| 30        | -11.03  | -8.77 | -2.23 | 1     | 1.08  | 3.68  | -1.28  | -9     | -10.14 | -7.19  | -4.95  | -3.97  | -18.05 |
| 45        | -10.4   | -9.29 | -2.25 | 1.88  | -0.12 | 1.95  | -16.73 | -7.64  | -9.94  | -19.05 | -8.98  | -4.52  | -18.05 |
| 60        | -10.45  | -9.26 | -1.31 | 2.18  | -0.29 | -1.36 | -6.92  | -11.58 | -12.42 | -12.88 | -17.12 | -7.64  | -18.05 |
| 75        | -10.27  | -8.02 | -0.48 | 3.23  | 2.36  | 3.05  | -3.6   | -4.55  | -8.12  | -12.46 | -11.9  | -12.67 | -18.05 |
| 90        | -9.39   | -6.46 | -0.93 | 4.01  | 3.16  | 4.31  | -0.05  | -6.51  | -9.48  | -8.47  | -12.66 | -14.4  | -18.05 |
| 105       | -9.4    | -5.61 | -1.48 | 3.49  | 2.41  | 3.45  | -0.12  | -8.88  | -11.83 | -9.75  | -12.92 | -15.97 | -18.05 |
| 120       | -9.67   | -5.07 | 0.07  | 2.86  | 2.25  | 2.41  | -0.89  | -5.31  | -11.11 | -8.24  | -14.28 | -15.28 | -18.05 |
| 135       | -10.33  | -4.84 | -0.72 | 3.1   | 0.99  | 3.76  | -0.1   | -2.21  | -11.52 | -15.76 | -16.95 | -13.75 | -18.05 |
| 150       | -10.62  | -5.01 | -1.06 | 1.98  | 1.02  | 2.12  | -2.58  | -2.74  | -9.7   | -11.33 | -14.96 | -14.57 | -18.05 |
| 165       | -10.91  | -5.36 | -1.11 | 1.31  | 0.07  | 0.7   | -2.34  | -5.83  | -10.73 | -10.47 | -14.41 | -16.36 | -18.05 |
| 180       | -10.78  | -5.74 | -0.66 | 0.18  | -2.27 | -1.07 | -4.04  | -13.76 | -7.96  | -14    | -14.03 | -16.5  | -18.05 |
| 195       | -10.72  | -5.97 | -1.31 | -0.51 | -2.17 | -1.92 | -8.03  | -12.92 | -9.76  | -14.06 | -15.47 | -18.05 | -18.05 |
| 210       | -10.32  | -6.1  | -1.94 | 0.19  | 0.26  | 0.38  | -1.95  | -6.4   | -7.95  | -16.9  | -17.88 | -17.43 | -18.05 |
| 225       | -10.82  | -6.38 | -2.18 | 2.16  | 0.15  | 2.07  | 0.5    | -9.91  | -6.92  | -12.88 | -11.58 | -11.48 | -18.05 |
| 240       | -11.36  | -6.92 | -2.11 | 3.94  | 0.37  | 3.32  | -0.3   | -6.59  | -7.68  | -9.74  | -10.78 | -9.54  | -18.05 |
| 255       | -11.56  | -7.62 | -2.52 | 3.64  | -0.78 | 1.33  | -6.69  | -7.59  | -8.02  | -13.37 | -6.84  | -9.36  | -18.05 |
| 270       | -11.82  | -8.46 | -1.41 | 3.71  | -1.65 | 2     | -5.02  | -7.74  | -9.67  | -15.43 | -11.08 | -8.33  | -18.05 |
| 285       | -11.86  | -9.1  | -1.53 | 1.6   | -2.37 | 1.6   | -5.82  | -5.04  | -7.17  | -14.8  | -11.95 | -7.12  | -18.05 |
| 300       | -11.95  | -8.87 | -3.35 | 1.2   | -3.06 | -0.51 | -11.09 | -6.25  | -6.11  | -9.92  | -15.38 | -6.52  | -18.05 |
| 315       | -10.9   | -8.4  | -6.32 | 1.35  | -1.81 | 0.55  | -4.4   | -6.08  | -7.76  | -7.97  | -10.06 | -7.68  | -18.05 |

|     |        |       |       |      |      |      |       |        |       |        |        |       |        |
|-----|--------|-------|-------|------|------|------|-------|--------|-------|--------|--------|-------|--------|
| 330 | -11.16 | -8    | -6.24 | 0.34 | 0.51 | 0.01 | -5    | -11.07 | -7.66 | -8.34  | -11.72 | -5.79 | -18.05 |
| 345 | -10.81 | -7.57 | -5.73 | 0.3  | 0.5  | 0.68 | -4.27 | -8.93  | -6.71 | -11.68 | -11.71 | -5.43 | -18.05 |

| 5300MHz Composite Gain (1SS) |         |       |       |      |      |      |       |       |        |        |        |        |        |
|------------------------------|---------|-------|-------|------|------|------|-------|-------|--------|--------|--------|--------|--------|
| Freq                         | 5300.00 |       |       |      |      |      |       |       |        |        |        |        |        |
| Phi\Theta                    | 0       | 15    | 30    | 45   | 60   | 75   | 90    | 105   | 120    | 135    | 150    | 165    | 180    |
| 0                            | -8.12   | -5.63 | -0.97 | 4.51 | 2.56 | 4.11 | -5.96 | -6.91 | -8.65  | -6.24  | -9.25  | -4.5   | -14.19 |
| 15                           | -8.33   | -5.42 | -0.55 | 3.23 | 3.64 | 4.18 | -1.8  | -7.1  | -9.26  | -5.35  | -6.23  | -5.49  | -14.19 |
| 30                           | -8.65   | -5.23 | -0.23 | 3.97 | 2.63 | 4.61 | -0.27 | -5.84 | -7.6   | -6.11  | -6.09  | -3.9   | -14.19 |
| 45                           | -8.25   | -5.81 | 0.76  | 3.13 | 2.26 | 2.91 | -7.1  | -6.82 | -5.78  | -12.8  | -9.45  | -3.22  | -14.19 |
| 60                           | -8.17   | -6.43 | 0.82  | 4.19 | 2.32 | 0.78 | -5.9  | -9.68 | -10.36 | -9.86  | -13.88 | -4.69  | -14.19 |
| 75                           | -7.6    | -5.98 | 1     | 4.73 | 3.54 | 3.38 | -1.65 | -4.75 | -6.75  | -9.45  | -10.05 | -7.44  | -14.19 |
| 90                           | -7.53   | -4.37 | 0.82  | 5.37 | 4.93 | 5.44 | 1.69  | -4.28 | -10.34 | -8.6   | -9     | -9.58  | -14.19 |
| 105                          | -7.98   | -3.39 | 0.86  | 4.37 | 3.6  | 4.02 | -0.29 | -8.39 | -12.16 | -9.15  | -9.57  | -8.45  | -14.19 |
| 120                          | -7.59   | -3.19 | 1.91  | 5.06 | 4.4  | 4.2  | -0.37 | -6.48 | -10.76 | -6.06  | -9.98  | -8.28  | -14.19 |
| 135                          | -7.97   | -3.21 | 1.38  | 5.51 | 4.47 | 5.84 | 0.44  | -2.9  | -9.29  | -11.56 | -11.58 | -9.18  | -14.19 |
| 150                          | -8.23   | -3.82 | 0.56  | 4.64 | 4.05 | 4.38 | -0.17 | -2.39 | -6.75  | -8.36  | -11.63 | -9.91  | -14.19 |
| 165                          | -7.75   | -4.62 | 0.13  | 3.44 | 4.37 | 5.25 | 2.31  | -3.45 | -7.76  | -7.44  | -10.7  | -10.14 | -14.19 |
| 180                          | -8.22   | -4.99 | 0.33  | 3.23 | 3.61 | 4.57 | 1.2   | -6.95 | -6.82  | -8.42  | -8.97  | -10.41 | -14.19 |
| 195                          | -8.69   | -5.43 | -0.67 | 3.1  | 3.14 | 3.89 | -0.95 | -5.11 | -5.55  | -10.46 | -11.52 | -11.07 | -14.19 |
| 210                          | -7.92   | -5.56 | -0.99 | 3.19 | 4.77 | 5.15 | -0.01 | -2.24 | -2.87  | -11.06 | -9.99  | -10.87 | -14.19 |
| 225                          | -8.37   | -5.46 | -0.26 | 4.57 | 4.9  | 5.4  | 2.29  | -4.38 | -4.64  | -11.47 | -7.47  | -8.75  | -14.19 |
| 240                          | -8.93   | -4.75 | 0.99  | 6.2  | 4.35 | 6.44 | 2.51  | -1.94 | -5.19  | -9.3   | -7.43  | -6.84  | -14.19 |
| 255                          | -8.63   | -4.52 | 0.6   | 5.03 | 3.25 | 5.86 | 0.63  | -1.83 | -4.3   | -8.68  | -4.97  | -7.11  | -14.19 |
| 270                          | -8.94   | -5.05 | -0.08 | 5.84 | 3.5  | 4.9  | -0.4  | -2.31 | -5.65  | -11.78 | -6.66  | -8.19  | -14.19 |
| 285                          | -9.17   | -5.49 | 0.02  | 4.79 | 2.6  | 5.86 | 0.71  | -1.2  | -3.59  | -7.33  | -10.68 | -5.8   | -14.19 |
| 300                          | -9.11   | -5.87 | 0.12  | 4.14 | 2.27 | 3.73 | -1.85 | -2.78 | -4.69  | -7     | -13.55 | -4.35  | -14.19 |
| 315                          | -8.68   | -5.49 | -0.97 | 5.01 | 1.74 | 4.22 | -1.98 | -4.61 | -6.26  | -8.33  | -7.9   | -5.64  | -14.19 |
| 330                          | -8.86   | -4.87 | -1    | 4.85 | 2.74 | 4.87 | 0.37  | -3.67 | -6.41  | -7.73  | -8.05  | -5.71  | -14.19 |
| 345                          | -8.46   | -4.68 | -1.49 | 4.53 | 2.58 | 3.72 | -0.23 | -3.03 | -4.68  | -7.03  | -8.78  | -5.77  | -14.19 |

| 5300MHz Composite Gain (2SS) |         |       |       |      |       |       |       |        |        |        |        |        |        |
|------------------------------|---------|-------|-------|------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Freq                         | 5300.00 |       |       |      |       |       |       |        |        |        |        |        |        |
| Phi\Theta                    | 0       | 15    | 30    | 45   | 60    | 75    | 90    | 105    | 120    | 135    | 150    | 165    | 180    |
| 0                            | -11.07  | -8.61 | -3.98 | 1.5  | -0.17 | 1.23  | -8.3  | -9.8   | -11.31 | -9.24  | -11.5  | -6.45  | -17.16 |
| 15                           | -11.26  | -8.37 | -3.55 | 0.24 | 0.95  | 1.65  | -3.87 | -10.11 | -12.2  | -7.77  | -8.1   | -7.17  | -17.16 |
| 30                           | -11.64  | -8.22 | -3.18 | 0.96 | -0.23 | 1.91  | -3    | -8.85  | -10.6  | -8.86  | -7.72  | -6.26  | -17.16 |
| 45                           | -11.22  | -8.81 | -2.25 | 0.33 | -0.72 | 0.2   | -9.03 | -9.49  | -8.73  | -15.41 | -11.52 | -6.03  | -17.16 |
| 60                           | -11.14  | -9.44 | -2.14 | 1.25 | -0.68 | -2.18 | -8.63 | -12.61 | -13.31 | -12.87 | -16.89 | -7.7   | -17.16 |
| 75                           | -10.61  | -8.93 | -1.85 | 1.88 | 0.76  | 0.9   | -4.59 | -6.97  | -9.58  | -12.46 | -12.97 | -10.23 | -17.16 |
| 90                           | -10.46  | -7.32 | -2.08 | 2.55 | 2.02  | 2.67  | -1.21 | -7.25  | -12.16 | -10.85 | -11.99 | -12.44 | -17.16 |
| 105                          | -10.82  | -6.36 | -2.12 | 1.68 | 0.82  | 1.44  | -2.52 | -10.93 | -14.3  | -11.74 | -12.58 | -10.79 | -17.16 |
| 120                          | -10.54  | -6.11 | -1.01 | 2.09 | 1.43  | 1.29  | -2.93 | -8.09  | -13.24 | -9.02  | -12.91 | -10.74 | -17.16 |

|     |        |       |       |      |       |      |       |       |        |        |        |        |        |
|-----|--------|-------|-------|------|-------|------|-------|-------|--------|--------|--------|--------|--------|
| 135 | -10.96 | -6.1  | -1.57 | 2.52 | 1.47  | 2.88 | -2.12 | -4.83 | -12.26 | -14.5  | -14.35 | -12.08 | -17.16 |
| 150 | -11.21 | -6.6  | -2.32 | 1.64 | 1.04  | 1.4  | -3.16 | -4.87 | -9.76  | -11.37 | -14.64 | -12.79 | -17.16 |
| 165 | -10.76 | -7.26 | -2.66 | 0.48 | 1.45  | 2.35 | -0.57 | -6.44 | -10.77 | -10.45 | -13.69 | -12.75 | -17.16 |
| 180 | -11.22 | -7.63 | -2.4  | 0.22 | 0.93  | 1.84 | -1.59 | -9.44 | -9.58  | -11.15 | -11.79 | -13.05 | -17.16 |
| 195 | -11.64 | -7.99 | -3.27 | 0.11 | 0.35  | 1.2  | -3.39 | -7.4  | -8.49  | -13.45 | -14.49 | -13.54 | -17.16 |
| 210 | -10.91 | -8.12 | -3.7  | 0.18 | 1.87  | 2.28 | -2.95 | -5.19 | -5.69  | -13.75 | -12.26 | -13.42 | -17.16 |
| 225 | -11.36 | -8.16 | -3.19 | 1.58 | 2.02  | 2.39 | -0.63 | -7.12 | -7.62  | -14.31 | -10.42 | -11.75 | -17.16 |
| 240 | -11.92 | -7.72 | -2.02 | 3.22 | 1.39  | 3.43 | -0.5  | -4.82 | -8.19  | -11.82 | -10.44 | -9.85  | -17.16 |
| 255 | -11.64 | -7.53 | -2.41 | 2.2  | 0.29  | 2.96 | -1.77 | -4.54 | -7.29  | -11.56 | -7.89  | -10.09 | -17.16 |
| 270 | -11.95 | -8.05 | -2.9  | 2.88 | 0.69  | 1.89 | -3.29 | -5.07 | -8.6   | -14.77 | -9.58  | -10.58 | -17.16 |
| 285 | -12.17 | -8.48 | -2.85 | 1.78 | -0.24 | 2.93 | -1.84 | -4.18 | -6.58  | -9.69  | -13.48 | -8.61  | -17.16 |
| 300 | -12.12 | -8.88 | -2.88 | 1.13 | -0.51 | 0.79 | -3.85 | -5.78 | -7.53  | -10.01 | -16.47 | -7.32  | -17.16 |
| 315 | -11.65 | -8.5  | -3.75 | 2.02 | -1.25 | 1.24 | -4.97 | -7.46 | -9.12  | -10.46 | -10.87 | -8.59  | -17.16 |
| 330 | -11.84 | -7.88 | -3.79 | 1.94 | -0.23 | 2.02 | -2.4  | -6.05 | -9.21  | -10.32 | -11.03 | -8.07  | -17.16 |
| 345 | -11.45 | -7.69 | -4.43 | 1.59 | -0.38 | 0.71 | -3.19 | -5.71 | -7.63  | -9.92  | -11.79 | -7.91  | -17.16 |

| Ant5      |         |        |       |       |       |       |        |        |        |        |        |        |        |
|-----------|---------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Freq      | 5600.00 |        |       |       |       |       |        |        |        |        |        |        |        |
| Phi\Theta | 0       | 15     | 30    | 45    | 60    | 75    | 90     | 105    | 120    | 135    | 150    | 165    | 180    |
| 0         | -11.97  | -6.93  | -2.35 | 1.33  | -5    | -1.28 | -5.67  | -14.16 | -9.86  | -20.69 | -8.15  | -8.87  | -17.03 |
| 15        | -11.67  | -7.15  | -3.38 | -0.08 | -2.55 | -2.87 | -11.2  | -21.05 | -8.13  | -12.72 | -7.86  | -8.92  | -17.03 |
| 30        | -11.47  | -7.48  | -2.43 | -2.04 | 0.53  | -1.37 | -9.15  | -8.28  | -4.89  | -10.92 | -7.29  | -7.12  | -17.03 |
| 45        | -11.43  | -7.38  | -2.56 | 1.28  | 0.46  | -2.77 | -10.17 | -8.64  | -3.94  | -10.95 | -10.32 | -7.54  | -17.03 |
| 60        | -11.24  | -6.34  | -4.89 | 0.71  | -0.42 | -0.59 | -7.53  | -11.32 | -4.61  | -10.88 | -7.6   | -7.64  | -17.03 |
| 75        | -10.39  | -7.34  | -3.1  | 0.72  | 0.49  | -0.52 | -4.07  | -8.03  | -11.66 | -10.13 | -9.65  | -8.2   | -17.03 |
| 90        | -11.86  | -7.49  | -1.12 | 0.6   | 0.9   | -1.18 | -5.44  | -7.03  | -6.62  | -8.92  | -7.17  | -5.5   | -17.03 |
| 105       | -11.54  | -8.15  | -0.65 | 2.69  | 0.83  | 1.33  | -7.03  | -6.42  | -7.7   | -7.14  | -7.51  | -5.67  | -17.03 |
| 120       | -11.03  | -9.6   | -1.65 | 2.1   | 0.67  | 1.64  | -1.07  | -3.6   | -1.64  | -8.93  | -5.36  | -8.15  | -17.03 |
| 135       | -12.1   | -10.31 | -2.77 | 0.32  | 0.39  | 0.28  | -10.14 | -5.55  | -0.45  | -7.71  | -7.08  | -10.07 | -17.03 |
| 150       | -10.32  | -11.23 | -2.22 | 1.68  | 1.32  | 2.86  | 0.45   | -6.73  | -4     | -8.32  | -6.18  | -10.59 | -17.03 |
| 165       | -9.36   | -12.3  | -2.05 | 3.01  | 3.05  | 2.23  | -4.5   | -4.22  | -8.5   | -10.91 | -6.1   | -13.95 | -17.03 |
| 180       | -11.15  | -12.36 | -1.95 | 3.38  | 2.32  | 2.94  | -2.55  | -1.44  | -2.93  | -9.88  | -8.45  | -15.09 | -17.03 |
| 195       | -11.09  | -13    | -0.89 | 3.08  | 1.7   | 3.04  | -0.68  | -2.92  | -2.08  | -10.39 | -9.46  | -17.03 | -17.03 |
| 210       | -10.5   | -11.59 | -0.39 | 2.08  | 1.4   | 3.7   | -3.31  | -4.31  | -3.56  | -6.14  | -10.32 | -9.28  | -17.03 |
| 225       | -12.08  | -9.93  | 0.14  | 2.01  | 1.64  | 1.03  | -5.86  | -2.56  | -6.89  | -8.33  | -6.19  | -6.1   | -17.03 |
| 240       | -10.56  | -11.16 | -2.96 | 2.61  | 0.86  | -0.98 | -7.2   | -4.48  | -3.24  | -5.84  | -5.12  | -6.09  | -17.03 |
| 255       | -10.65  | -14.68 | -1.95 | 2.07  | 1.56  | -0.38 | -2.51  | -5.21  | -4.29  | -7.47  | -7.81  | -4.47  | -17.03 |
| 270       | -11.25  | -10.45 | -0.86 | 0.46  | 0.36  | -1.08 | -6.15  | -8.11  | -5.26  | -5.87  | -6.58  | -5.59  | -17.03 |
| 285       | -11.2   | -7.62  | -1.81 | 1.43  | -1.11 | -1.17 | -4.74  | -6.61  | -2.72  | -7.33  | -8.49  | -7.22  | -17.03 |
| 300       | -10.88  | -6.25  | -2.27 | -0.25 | 0.28  | 0.82  | -0.78  | -5.9   | -5.65  | -14.53 | -9.89  | -6.51  | -17.03 |
| 315       | -11.42  | -5.7   | -1.06 | -0.39 | -0.46 | 0.62  | -6.68  | -16.21 | -6.63  | -15.78 | -9.07  | -6.66  | -17.03 |
| 330       | -11.54  | -5.75  | -3.19 | 2.84  | -3.57 | 1.64  | -4.52  | -7.78  | -12.66 | -8.45  | -6.44  | -7.15  | -17.03 |
| 345       | -12.09  | -6.55  | -3.22 | 3.63  | -4.72 | 0.96  | -4.33  | -9.77  | -11.43 | -10.63 | -5.95  | -8.42  | -17.03 |

| Ant6      |         |        |       |       |       |       |        |        |        |        |        |        |        |
|-----------|---------|--------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|
| Freq      | 5600.00 |        |       |       |       |       |        |        |        |        |        |        |        |
| Phi\Theta | 0       | 15     | 30    | 45    | 60    | 75    | 90     | 105    | 120    | 135    | 150    | 165    | 180    |
| 0         | -12.01  | -12.71 | -2.84 | 2.51  | 1.47  | 2.66  | -2.96  | -5.64  | -0.81  | -8.76  | -6.1   | -6.98  | -11.45 |
| 15        | -12.75  | -13.1  | -4.06 | 2.83  | 3.64  | 2.02  | 1.26   | -5     | -1.67  | -5.95  | -5.3   | -8.98  | -11.45 |
| 30        | -11.95  | -13.51 | -4.4  | 2.17  | 2.86  | 2.3   | -6.5   | -4.82  | -2.54  | -8.27  | -5.91  | -7.98  | -11.45 |
| 45        | -11.86  | -11.52 | -3.36 | 0.66  | 1.42  | 1.31  | -2.57  | -3.86  | -2.55  | -14.4  | -7.42  | -8.58  | -11.45 |
| 60        | -11.85  | -9.48  | -1.31 | 1.39  | 2.09  | 3.22  | -2.34  | -1.69  | -3.62  | -12.1  | -6.49  | -8.68  | -11.45 |
| 75        | -12.69  | -8.4   | -0.6  | 2.8   | 2.62  | 2.87  | -4.46  | -5.01  | -3.02  | -5.99  | -9.81  | -11.45 | -11.45 |
| 90        | -12.9   | -7.48  | 0.72  | 3.61  | 2.66  | 1.94  | -4.51  | -6.84  | -1.59  | -3.79  | -14.01 | -9.51  | -11.45 |
| 105       | -12.82  | -6.59  | 0.77  | 2.86  | 1.63  | 0.81  | -5.59  | -4.62  | -3.66  | -2.55  | -12.05 | -6.09  | -11.45 |
| 120       | -12.78  | -5.74  | -0.49 | 1.74  | 1.69  | 0.93  | -6.68  | -4.73  | -5.83  | -3.95  | -12.62 | -7.08  | -11.45 |
| 135       | -12.75  | -5.3   | -1.05 | 1.9   | 1.59  | -0.03 | -5.49  | -9.46  | -6.48  | -6.45  | -11.76 | -10.2  | -11.45 |
| 150       | -12.71  | -4.93  | -1.41 | 2.06  | 0.74  | 1.47  | -7.3   | -4.27  | -5.36  | -6.46  | -9.81  | -10.19 | -11.45 |
| 165       | -12.85  | -5.02  | -3.02 | 2.32  | 1.38  | -0.07 | -5.81  | -4.22  | -6.87  | -8.31  | -11.61 | -11.31 | -11.45 |
| 180       | -13.37  | -4.68  | -2.54 | 0.8   | 0.71  | -0.5  | -4.82  | -9.64  | -6.57  | -11.77 | -9.5   | -8.24  | -11.45 |
| 195       | -13.45  | -4.5   | -1.53 | -1.1  | -1.3  | -2.54 | -9.26  | -22.17 | -4.91  | -10.95 | -13.57 | -6.5   | -11.45 |
| 210       | -13.81  | -4.92  | -0.77 | -0.82 | -0.94 | -3.04 | -8.36  | -10.38 | -14.74 | -8.18  | -13.58 | -6.74  | -11.45 |
| 225       | -13.25  | -5.42  | -0.27 | 1.05  | -2.3  | -0.84 | -4.96  | -9.79  | -9.84  | -9.49  | -7.2   | -8.62  | -11.45 |
| 240       | -12.43  | -5.54  | 0.9   | 1.3   | -1.84 | 2.29  | -0.95  | -6.44  | -5.02  | -12.1  | -8.06  | -6.87  | -11.45 |
| 255       | -11.95  | -6.22  | 1.5   | 0.78  | -1.14 | 0.57  | -3.83  | -4.73  | -4.46  | -8.45  | -8.88  | -4.99  | -11.45 |
| 270       | -12.39  | -5.93  | -0.18 | -0.92 | 0.38  | -1.74 | -9.57  | -8.62  | -4.1   | -9.75  | -10.93 | -4.42  | -11.45 |
| 285       | -13.38  | -4.9   | -1.79 | 0.48  | 0.58  | -0.82 | -9.77  | -7.26  | -3.06  | -16.99 | -11.09 | -3.89  | -11.45 |
| 300       | -12.79  | -5.81  | -5.14 | 2.05  | -0.16 | 0.72  | -7.12  | -5.05  | -2.94  | -16.54 | -10.76 | -3.54  | -11.45 |
| 315       | -12.26  | -8.11  | -3.86 | 0.58  | 1.53  | -0.14 | -2.52  | -4.64  | -3.2   | -8.79  | -7     | -2.89  | -11.45 |
| 330       | -11.62  | -9.18  | -2.93 | -0.48 | 2.51  | -2.08 | -3.3   | -4.44  | -2.1   | -5.89  | -6.33  | -3.02  | -11.45 |
| 345       | -11.82  | -9.97  | -2.92 | 1.91  | 0.7   | 0.65  | -20.42 | -5.67  | -2.12  | -7.59  | -8.64  | -4.2   | -11.45 |

| 5600MHz Composite Gain (1SS) |         |       |       |      |      |      |       |       |       |       |       |       |        |
|------------------------------|---------|-------|-------|------|------|------|-------|-------|-------|-------|-------|-------|--------|
| Freq                         | 5600.00 |       |       |      |      |      |       |       |       |       |       |       |        |
| Phi\Theta                    | 0       | 15    | 30    | 45   | 60   | 75   | 90    | 105   | 120   | 135   | 150   | 165   | 180    |
| 0                            | -8.98   | -6.34 | 0.42  | 4.95 | 1.83 | 3.92 | -1.2  | -5.88 | -1.2  | -9.81 | -4.05 | -4.86 | -10.79 |
| 15                           | -9.18   | -6.61 | -0.7  | 4.51 | 4.1  | 2.92 | 0.11  | -6.74 | -1.3  | -5.68 | -3.48 | -5.94 | -10.79 |
| 30                           | -8.7    | -6.97 | -0.35 | 3.33 | 4.78 | 3.67 | -4.71 | -3.37 | -0.63 | -6.48 | -3.56 | -4.53 | -10.79 |
| 45                           | -8.63   | -6.2  | 0.06  | 3.99 | 3.96 | 2.52 | -2.55 | -2.91 | -0.21 | -9.49 | -5.74 | -5.03 | -10.79 |
| 60                           | -8.53   | -4.76 | 0.09  | 4.07 | 3.94 | 4.53 | -1.54 | -2.22 | -1.09 | -8.46 | -4.02 | -5.13 | -10.79 |
| 75                           | -8.45   | -4.84 | 1.25  | 4.83 | 4.63 | 4.35 | -1.25 | -3.38 | -3.3  | -4.81 | -6.72 | -6.66 | -10.79 |
| 90                           | -9.35   | -4.47 | 2.86  | 5.25 | 4.83 | 3.53 | -1.95 | -3.92 | -0.74 | -2.97 | -6.92 | -4.27 | -10.79 |
| 105                          | -9.15   | -4.32 | 3.1   | 5.79 | 4.25 | 4.08 | -3.27 | -2.46 | -2.44 | -1.53 | -6.48 | -2.87 | -10.79 |
| 120                          | -8.85   | -4.45 | 1.96  | 4.93 | 4.21 | 4.3  | -0.42 | -1.14 | -0.47 | -3.08 | -5.24 | -4.59 | -10.79 |
| 135                          | -9.41   | -4.44 | 1.14  | 4.16 | 4.02 | 3.14 | -4.5  | -4.28 | 0.06  | -4.05 | -6.1  | -7.12 | -10.79 |
| 150                          | -8.42   | -4.51 | 1.2   | 4.88 | 4.05 | 5.2  | 0.42  | -2.4  | -1.64 | -4.33 | -4.8  | -7.38 | -10.79 |

|     |       |       |       |      |      |      |       |       |       |        |       |       |        |
|-----|-------|-------|-------|------|------|------|-------|-------|-------|--------|-------|-------|--------|
| 165 | -7.92 | -4.91 | 0.49  | 5.68 | 5.27 | 4.17 | -2.12 | -1.21 | -4.64 | -6.5   | -5.41 | -9.52 | -10.79 |
| 180 | -9.18 | -4.69 | 0.77  | 5.2  | 4.56 | 4.4  | -0.6  | -1.6  | -1.55 | -7.76  | -5.95 | -8    | -10.79 |
| 195 | -9.18 | -4.74 | 1.81  | 4.25 | 3.34 | 3.7  | -0.94 | -5.03 | -0.37 | -7.66  | -8.26 | -7.25 | -10.79 |
| 210 | -8.99 | -4.62 | 2.43  | 3.76 | 3.32 | 3.98 | -2.46 | -3.81 | -4.45 | -4.09  | -8.79 | -4.91 | -10.79 |
| 225 | -9.64 | -4.38 | 2.95  | 4.55 | 2.9  | 3.16 | -2.39 | -2.43 | -5.23 | -5.88  | -3.67 | -4.26 | -10.79 |
| 240 | -8.43 | -4.89 | 2.19  | 4.99 | 2.62 | 3.82 | -0.51 | -2.39 | -1.07 | -5.41  | -3.46 | -3.46 | -10.79 |
| 255 | -8.27 | -6.45 | 2.96  | 4.46 | 3.32 | 3.12 | -0.13 | -1.96 | -1.36 | -4.94  | -5.32 | -1.72 | -10.79 |
| 270 | -8.79 | -4.89 | 2.5   | 2.81 | 3.38 | 1.61 | -4.68 | -5.35 | -1.65 | -4.58  | -5.48 | -1.98 | -10.79 |
| 285 | -9.21 | -3.14 | 1.21  | 3.98 | 2.79 | 2.02 | -3.89 | -3.92 | 0.12  | -7.87  | -6.68 | -2.39 | -10.79 |
| 300 | -8.77 | -3.02 | -0.58 | 3.99 | 3.07 | 3.78 | -0.37 | -2.45 | -1.18 | -12.47 | -7.3  | -1.89 | -10.79 |
| 315 | -8.82 | -3.81 | 0.66  | 3.12 | 3.6  | 3.26 | -1.34 | -5.62 | -1.74 | -8.59  | -4.96 | -1.56 | -10.79 |
| 330 | -8.57 | -4.29 | -0.05 | 4.35 | 3    | 2.99 | -0.88 | -2.94 | -2.85 | -4.07  | -3.37 | -1.83 | -10.79 |
| 345 | -8.94 | -5.08 | -0.06 | 5.82 | 1.42 | 3.82 | -6.07 | -4.47 | -2.57 | -5.97  | -4.18 | -3.05 | -10.79 |

| 5600MHz Composite Gain (2SS) |         |       |       |       |       |       |       |       |       |        |        |        |       |
|------------------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|
| Freq                         | 5600.00 |       |       |       |       |       |       |       |       |        |        |        |       |
| Phi\Theta                    | 0       | 15    | 30    | 45    | 60    | 75    | 90    | 105   | 120   | 135    | 150    | 165    | 180   |
| 0                            | -11.99  | -8.92 | -2.59 | 1.96  | -0.66 | 1.12  | -4.11 | -8.08 | -3.31 | -11.5  | -7.01  | -7.82  | -13.4 |
| 15                           | -12.18  | -9.18 | -3.71 | 1.61  | 1.57  | 0.23  | -1.51 | -7.9  | -3.8  | -8.13  | -6.39  | -8.95  | -13.4 |
| 30                           | -11.7   | -9.52 | -3.3  | 0.56  | 1.85  | 0.84  | -7.63 | -6.21 | -3.56 | -9.4   | -6.55  | -7.53  | -13.4 |
| 45                           | -11.64  | -8.97 | -2.94 | 0.98  | 0.97  | -0.27 | -4.88 | -5.62 | -3.19 | -12.34 | -8.63  | -8.03  | -13.4 |
| 60                           | -11.53  | -7.63 | -2.74 | 1.06  | 1.01  | 1.72  | -4.2  | -4.25 | -4.09 | -11.45 | -7.01  | -8.13  | -13.4 |
| 75                           | -11.39  | -7.84 | -1.67 | 1.88  | 1.68  | 1.5   | -4.26 | -6.26 | -5.47 | -7.58  | -9.73  | -9.53  | -13.4 |
| 90                           | -12.35  | -7.48 | -0.1  | 2.36  | 1.87  | 0.65  | -4.95 | -6.93 | -3.41 | -5.64  | -9.36  | -7.06  | -13.4 |
| 105                          | -12.13  | -7.3  | 0.12  | 2.78  | 1.25  | 1.08  | -6.25 | -5.43 | -5.23 | -4.26  | -9.21  | -5.87  | -13.4 |
| 120                          | -11.82  | -7.25 | -1.03 | 1.92  | 1.21  | 1.3   | -3.03 | -4.13 | -3.25 | -5.76  | -7.62  | -7.58  | -13.4 |
| 135                          | -12.41  | -7.12 | -1.83 | 1.18  | 1.03  | 0.13  | -7.22 | -7.08 | -2.49 | -7.03  | -8.82  | -10.13 | -13.4 |
| 150                          | -11.35  | -7.03 | -1.8  | 1.87  | 1.04  | 2.22  | -1.89 | -5.33 | -4.63 | -7.29  | -7.63  | -10.39 | -13.4 |
| 165                          | -10.76  | -7.29 | -2.51 | 2.68  | 2.29  | 1.23  | -5.11 | -4.22 | -7.61 | -9.42  | -8.03  | -12.43 | -13.4 |
| 180                          | -12.12  | -7.01 | -2.23 | 2.28  | 1.59  | 1.55  | -3.54 | -3.84 | -4.38 | -10.72 | -8.94  | -10.43 | -13.4 |
| 195                          | -12.11  | -6.94 | -1.2  | 1.47  | 0.45  | 1.09  | -3.13 | -5.88 | -3.27 | -10.66 | -11.05 | -9.14  | -13.4 |
| 210                          | -11.85  | -7.08 | -0.58 | 0.87  | 0.39  | 1.52  | -5.14 | -6.36 | -6.25 | -7.04  | -11.65 | -7.83  | -13.4 |
| 225                          | -12.63  | -7.11 | -0.06 | 1.56  | 0.1   | 0.19  | -5.39 | -4.82 | -8.12 | -8.87  | -6.67  | -7.18  | -13.4 |
| 240                          | -11.4   | -7.5  | -0.61 | 2     | -0.28 | 0.96  | -3.04 | -5.35 | -4.04 | -7.93  | -6.35  | -6.46  | -13.4 |
| 255                          | -11.25  | -8.65 | 0.11  | 1.47  | 0.42  | 0.12  | -3.12 | -4.96 | -4.37 | -7.93  | -8.31  | -4.72  | -13.4 |
| 270                          | -11.78  | -7.63 | -0.51 | -0.18 | 0.37  | -1.4  | -7.53 | -8.36 | -4.64 | -7.39  | -8.23  | -4.97  | -13.4 |
| 285                          | -12.15  | -6.05 | -1.8  | 0.98  | -0.18 | -0.99 | -6.56 | -6.92 | -2.89 | -9.89  | -9.6   | -5.24  | -13.4 |
| 300                          | -11.73  | -6.02 | -3.47 | 1.05  | 0.07  | 0.77  | -2.88 | -5.45 | -4.09 | -15.42 | -10.3  | -4.78  | -13.4 |
| 315                          | -11.82  | -6.74 | -2.24 | 0.12  | 0.65  | 0.26  | -4.12 | -7.36 | -4.58 | -11.01 | -7.91  | -4.38  | -13.4 |
| 330                          | -11.58  | -7.13 | -3.06 | 1.49  | 0.46  | 0.17  | -3.87 | -5.8  | -4.74 | -6.98  | -6.38  | -4.61  | -13.4 |
| 345                          | -11.95  | -7.93 | -3.07 | 2.85  | -1.21 | 0.81  | -7.23 | -7.25 | -4.65 | -8.85  | -7.09  | -5.82  | -13.4 |

Ant5

| Freq      | 5800.00 |        |       |       |       |       |       |        |        |        |        |        |        |
|-----------|---------|--------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|
| Phi\Theta | 0       | 15     | 30    | 45    | 60    | 75    | 90    | 105    | 120    | 135    | 150    | 165    | 180    |
| 0         | -8.75   | -5.32  | -3.46 | 0.15  | -6.49 | -1.68 | -4.79 | -13.2  | -8.72  | -16.23 | -6.45  | -7.33  | -14.48 |
| 15        | -8.64   | -5.63  | -3.77 | -1.27 | -2.9  | -2.36 | -7.87 | -18.54 | -7.77  | -11.33 | -5.84  | -8.01  | -14.48 |
| 30        | -8.72   | -6.58  | -2.6  | -1.09 | 0.11  | -1.69 | -7.09 | -8.46  | -4.67  | -9.32  | -6.99  | -7.06  | -14.48 |
| 45        | -8.5    | -6.91  | -4.84 | 1.24  | -0.35 | -1.46 | -8.64 | -8.07  | -3.24  | -9.33  | -7.17  | -6.86  | -14.48 |
| 60        | -9.13   | -6.63  | -3.96 | 0.94  | -1.4  | 0.21  | -5.27 | -11.06 | -4.11  | -7.57  | -7.42  | -6.31  | -14.48 |
| 75        | -9.92   | -5.6   | -3.18 | 1     | -0.06 | -2.6  | -6.43 | -7.77  | -8.9   | -8.54  | -8.68  | -5.98  | -14.48 |
| 90        | -8.69   | -7.42  | -0.87 | 1.05  | 0.85  | -1.09 | -6.07 | -5.67  | -5.15  | -9.95  | -7.07  | -4.24  | -14.48 |
| 105       | -8.62   | -7.49  | -0.94 | 2.55  | 0.02  | 1     | -5.17 | -5.06  | -4.9   | -8.04  | -6.83  | -4.74  | -14.48 |
| 120       | -8.47   | -8.45  | -2.75 | 1.22  | 0.64  | -2.16 | -3.13 | -5.23  | -0.48  | -7.72  | -5.34  | -7.09  | -14.48 |
| 135       | -7.96   | -10.19 | -2.8  | 0.92  | -0.38 | 0.07  | -6.91 | -7.83  | 0.36   | -5.69  | -6.91  | -8.94  | -14.48 |
| 150       | -9.18   | -12.91 | -1.67 | 2.75  | 1.42  | 0.43  | -2.36 | -5.07  | -3.57  | -7.15  | -6.43  | -9.76  | -14.48 |
| 165       | -9.27   | -15.36 | -1.47 | 3.75  | 3.03  | 3.67  | -4.98 | -0.65  | -6.41  | -7.43  | -6.24  | -12.58 | -14.48 |
| 180       | -8.08   | -13.55 | -1.99 | 3.26  | 2.36  | 3.1   | -4.98 | -0.24  | -3.01  | -7.67  | -7.41  | -13.97 | -14.48 |
| 195       | -8.13   | -12.92 | -1.75 | 2.99  | 0.46  | 2.53  | -1.64 | -0.6   | -3.13  | -6.95  | -8.12  | -14.48 | -14.48 |
| 210       | -8.02   | -11.04 | -1.03 | 2.26  | 0.43  | 2.46  | -3.84 | -4.48  | -3.88  | -4.64  | -10.26 | -8.88  | -14.48 |
| 225       | -7.94   | -8.29  | -0.12 | 1.51  | 0.67  | 1.68  | -5.83 | -3.22  | -4.98  | -6.87  | -5.97  | -6.02  | -14.48 |
| 240       | -8.94   | -8.89  | -2.6  | 1.79  | 1.5   | -1.39 | -7.53 | -5.73  | -2.12  | -3.78  | -4.51  | -6.95  | -14.48 |
| 255       | -8.41   | -12.23 | -2.66 | 2.29  | 0.35  | -1.21 | -5.8  | -5.79  | -3.42  | -6.36  | -6.69  | -3.92  | -14.48 |
| 270       | -8.13   | -10.57 | -1.36 | 0.37  | 0.46  | -0.69 | -5.14 | -7.11  | -5.03  | -4.95  | -6.83  | -3.55  | -14.48 |
| 285       | -8.15   | -7.84  | -2.18 | 1.24  | -0.99 | -2.82 | -6.2  | -6.49  | -2.37  | -6.63  | -7.04  | -5.4   | -14.48 |
| 300       | -8.24   | -6.64  | -1.88 | 0.42  | -1.03 | -0.74 | -0.98 | -6.65  | -4.89  | -15.41 | -8.56  | -5.69  | -14.48 |
| 315       | -8.48   | -5.75  | -1.35 | -0.17 | 0.29  | 0.84  | -2.64 | -13.76 | -5.6   | -18.85 | -7.59  | -5.54  | -14.48 |
| 330       | -8.89   | -5.54  | -1.59 | 2.15  | -4.01 | -0.16 | -5.81 | -9.65  | -11.26 | -7.49  | -5.72  | -6.26  | -14.48 |
| 345       | -8.93   | -5.49  | -3.24 | 2.82  | -5.3  | 0.05  | -4.11 | -9.45  | -7.66  | -9.55  | -5.27  | -6.69  | -14.48 |

| Ant6      |         |        |       |      |      |       |        |       |       |        |        |        |       |
|-----------|---------|--------|-------|------|------|-------|--------|-------|-------|--------|--------|--------|-------|
| Freq      | 5800.00 |        |       |      |      |       |        |       |       |        |        |        |       |
| Phi\Theta | 0       | 15     | 30    | 45   | 60   | 75    | 90     | 105   | 120   | 135    | 150    | 165    | 180   |
| 0         | -11.77  | -11.65 | -2.72 | 2.86 | 1.66 | 2.2   | -2.05  | -5.09 | -1.32 | -7.83  | -5.54  | -7.26  | -11.1 |
| 15        | -10.62  | -12.77 | -4.19 | 2.37 | 3.42 | 1.39  | 0.04   | -2.89 | -1.82 | -5.01  | -5.64  | -9.9   | -11.1 |
| 30        | -10.95  | -14.51 | -4.12 | 2.35 | 2.42 | 2.32  | -9.62  | -3.96 | -2.34 | -6.65  | -6.01  | -8.39  | -11.1 |
| 45        | -10.4   | -12.86 | -2.97 | 0.66 | 1.82 | 1.51  | -3.23  | -2.97 | -2.41 | -13.06 | -7.85  | -8.31  | -11.1 |
| 60        | -10.52  | -10.68 | -2.07 | 1.85 | 1.13 | 2.73  | -1.69  | -1.16 | -2.56 | -10.85 | -7.08  | -8.2   | -11.1 |
| 75        | -10.09  | -8.89  | -1.04 | 2.79 | 1.66 | 1.92  | -4.15  | -3.68 | -2.56 | -4.96  | -10.91 | -10.75 | -11.1 |
| 90        | -11.69  | -9.3   | 0.05  | 2.85 | 2.14 | 2.18  | -6.7   | -5.62 | -1.91 | -2.8   | -18.75 | -9.64  | -11.1 |
| 105       | -11.08  | -7.96  | 0.54  | 3.19 | 1.76 | 0.96  | -8.98  | -4.61 | -3.34 | -1.85  | -12.57 | -5.18  | -11.1 |
| 120       | -11.09  | -6.27  | -0.61 | 1.66 | 0.24 | 0.14  | -11.31 | -4.41 | -5.58 | -3.86  | -11.46 | -6.04  | -11.1 |
| 135       | -11.03  | -5.81  | -0.82 | 1.41 | 1.11 | -2.26 | -7.68  | -9.97 | -4.29 | -4.97  | -10.05 | -9.61  | -11.1 |
| 150       | -10.75  | -5.58  | -0.59 | 2.14 | 0.07 | 0.57  | -9.18  | -4.26 | -3.01 | -6.12  | -8.64  | -10.41 | -11.1 |
| 165       | -10.76  | -4.81  | -2.84 | 2.22 | 0.57 | 0.27  | -6.17  | -4.79 | -5.57 | -6.45  | -13.4  | -11.1  | -11.1 |
| 180       | -11.7   | -4.68  | -3.19 | 1.13 | 0.39 | 0.06  | -4.21  | -5.86 | -6.12 | -7.97  | -10.36 | -8.77  | -11.1 |

|     |        |        |       |       |       |       |        |        |       |        |        |       |       |
|-----|--------|--------|-------|-------|-------|-------|--------|--------|-------|--------|--------|-------|-------|
| 195 | -12.07 | -4.56  | -2.67 | -1.28 | -1.83 | -1.75 | -5.49  | -14.61 | -4.5  | -12.3  | -13.36 | -5.83 | -11.1 |
| 210 | -12.56 | -4.7   | -1.57 | -1.61 | -3.63 | -3.37 | -5.83  | -14.74 | -8.64 | -7.22  | -10.88 | -5.88 | -11.1 |
| 225 | -12.79 | -5.15  | -0.43 | -0.4  | -3.55 | -1.65 | -6.41  | -8.39  | -10.2 | -7.36  | -5.9   | -8.15 | -11.1 |
| 240 | -12.54 | -5.4   | 1.07  | 0.27  | -1.43 | 0.77  | -2.42  | -6.73  | -4.79 | -11.74 | -6.95  | -5.98 | -11.1 |
| 255 | -12.47 | -4.23  | -0.14 | 0.51  | -0.69 | 0.2   | -3.09  | -6.13  | -4.04 | -6.92  | -6.59  | -3.97 | -11.1 |
| 270 | -11.77 | -3.67  | -1.33 | -0.52 | 0.77  | -1.33 | -5.43  | -7.33  | -3.58 | -9.68  | -9.63  | -4.01 | -11.1 |
| 285 | -11.5  | -4.45  | -3.82 | 0.1   | 0.77  | -2.62 | -7.43  | -6.87  | -2.84 | -19.89 | -9.66  | -2.54 | -11.1 |
| 300 | -12.36 | -5.91  | -6.4  | 1.5   | 0.49  | -1.58 | -6.01  | -4.79  | -1.8  | -14.41 | -10.16 | -2.29 | -11.1 |
| 315 | -11.88 | -8.9   | -1.72 | -0.98 | 1.58  | -1.13 | -5.06  | -3.83  | -2.32 | -9.07  | -5.84  | -2.38 | -11.1 |
| 330 | -12.2  | -9.87  | -2.94 | 0.97  | 2.4   | -0.92 | -7.49  | -3.98  | -1.23 | -5.68  | -5.89  | -2.82 | -11.1 |
| 345 | -11.51 | -10.78 | -2.75 | 2.33  | 0.21  | 0.82  | -11.49 | -5.08  | -2.09 | -7.37  | -7.01  | -4.54 | -11.1 |

| 5800MHz Composite Gain (1SS) |         |       |       |      |      |      |       |       |       |        |       |       |       |
|------------------------------|---------|-------|-------|------|------|------|-------|-------|-------|--------|-------|-------|-------|
| Freq                         | 5800.00 |       |       |      |      |      |       |       |       |        |       |       |       |
| Phi\Theta                    | 0       | 15    | 30    | 45   | 60   | 75   | 90    | 105   | 120   | 135    | 150   | 165   | 180   |
| 0                            | -7.12   | -4.91 | -0.07 | 4.62 | 1.52 | 3.49 | -0.3  | -5.22 | -1.24 | -8.04  | -2.97 | -4.28 | -9.62 |
| 15                           | -6.56   | -5.48 | -0.97 | 3.75 | 3.83 | 2.73 | -0.03 | -4.57 | -1.28 | -4.6   | -2.73 | -5.89 | -9.62 |
| 30                           | -6.75   | -6.66 | -0.32 | 3.81 | 4.35 | 3.55 | -5.25 | -2.91 | -0.42 | -4.87  | -3.48 | -4.69 | -9.62 |
| 45                           | -6.39   | -6.37 | -0.84 | 3.97 | 3.81 | 3.16 | -2.51 | -2.14 | 0.2   | -7.99  | -4.49 | -4.54 | -9.62 |
| 60                           | -6.79   | -5.41 | 0.05  | 4.42 | 2.97 | 4.57 | -0.29 | -1.76 | -0.29 | -6.05  | -4.24 | -4.19 | -9.62 |
| 75                           | -6.99   | -4.08 | 0.97  | 4.95 | 3.85 | 2.96 | -2.21 | -2.48 | -2.15 | -3.56  | -6.71 | -5.03 | -9.62 |
| 90                           | -7.05   | -5.3  | 2.61  | 5.01 | 4.53 | 3.71 | -3.37 | -2.63 | -0.37 | -2.65  | -8.07 | -3.52 | -9.62 |
| 105                          | -6.75   | -4.71 | 2.84  | 5.89 | 3.94 | 3.99 | -3.86 | -1.82 | -1.07 | -1.39  | -6.22 | -1.95 | -9.62 |
| 120                          | -6.67   | -4.28 | 1.4   | 4.45 | 3.45 | 2.08 | -3.28 | -1.8  | 0.35  | -2.57  | -4.86 | -3.54 | -9.62 |
| 135                          | -6.35   | -4.72 | 1.26  | 4.18 | 3.41 | 1.99 | -4.28 | -5.82 | 1.35  | -2.31  | -5.33 | -6.26 | -9.62 |
| 150                          | -6.92   | -5.48 | 1.9   | 5.46 | 3.78 | 3.51 | -2.11 | -1.65 | -0.28 | -3.61  | -4.45 | -7.07 | -9.62 |
| 165                          | -6.97   | -5.56 | 0.88  | 6.03 | 4.9  | 5.15 | -2.54 | 0.53  | -2.97 | -3.92  | -6.09 | -8.8  | -9.62 |
| 180                          | -6.69   | -5.02 | 0.44  | 5.27 | 4.44 | 4.72 | -1.58 | 0.41  | -1.42 | -4.81  | -5.75 | -7.98 | -9.62 |
| 195                          | -6.87   | -4.76 | 0.81  | 4.13 | 2.4  | 3.66 | -0.34 | -2.03 | -0.78 | -6.21  | -7.34 | -6.11 | -9.62 |
| 210                          | -6.99   | -4.29 | 1.71  | 3.55 | 1.65 | 3.04 | -1.77 | -5.17 | -2.93 | -2.82  | -7.55 | -4.24 | -9.62 |
| 225                          | -7.02   | -3.57 | 2.74  | 3.62 | 1.82 | 3.18 | -3.1  | -2.42 | -4.19 | -4.1   | -2.92 | -4.01 | -9.62 |
| 240                          | -7.54   | -3.96 | 2.44  | 4.07 | 3.17 | 2.77 | -1.59 | -3.21 | -0.34 | -3.87  | -2.63 | -3.44 | -9.62 |
| 255                          | -7.19   | -4.33 | 1.7   | 4.46 | 2.86 | 2.53 | -1.33 | -2.95 | -0.71 | -3.63  | -3.63 | -0.93 | -9.62 |
| 270                          | -6.75   | -3.44 | 1.67  | 2.95 | 3.63 | 2.01 | -2.27 | -4.21 | -1.26 | -3.99  | -5.11 | -0.77 | -9.62 |
| 285                          | -6.65   | -2.97 | 0.05  | 3.7  | 2.94 | 0.29 | -3.78 | -3.67 | 0.41  | -7.93  | -5.24 | -0.84 | -9.62 |
| 300                          | -7.05   | -3.26 | -0.84 | 3.99 | 2.77 | 1.86 | -0.13 | -2.66 | -0.2  | -11.89 | -6.31 | -0.81 | -9.62 |
| 315                          | -7      | -4.17 | 1.48  | 2.44 | 3.97 | 2.92 | -0.76 | -4.44 | -0.8  | -9.64  | -3.66 | -0.81 | -9.62 |
| 330                          | -7.38   | -4.43 | 0.77  | 4.59 | 2.78 | 2.48 | -3.6  | -3.35 | -1.86 | -3.53  | -2.79 | -1.36 | -9.62 |
| 345                          | -7.11   | -4.73 | 0.02  | 5.59 | 0.9  | 3.45 | -4.03 | -3.98 | -1.43 | -5.38  | -3.09 | -2.54 | -9.62 |

| 5800MHz Composite Gain (2SS) |         |  |  |  |  |  |  |  |  |  |  |  |  |
|------------------------------|---------|--|--|--|--|--|--|--|--|--|--|--|--|
| Freq                         | 5800.00 |  |  |  |  |  |  |  |  |  |  |  |  |

| Phi\Theta | 0      | 15    | 30    | 45    | 60    | 75    | 90    | 105   | 120   | 135    | 150    | 165    | 180    |
|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0         | -10    | -7.42 | -3.07 | 1.71  | -0.73 | 0.68  | -3.21 | -7.48 | -3.6  | -10.25 | -5.97  | -7.29  | -12.47 |
| 15        | -9.52  | -7.87 | -3.97 | 0.92  | 1.32  | -0.09 | -2.32 | -5.78 | -3.85 | -7.11  | -5.74  | -8.85  | -12.47 |
| 30        | -9.69  | -8.94 | -3.29 | 0.96  | 1.42  | 0.76  | -8.17 | -5.65 | -3.35 | -7.78  | -6.47  | -7.67  | -12.47 |
| 45        | -9.35  | -8.94 | -3.81 | 0.96  | 0.87  | 0.27  | -5.14 | -4.81 | -2.81 | -10.81 | -7.5   | -7.52  | -12.47 |
| 60        | -9.77  | -8.2  | -2.91 | 1.42  | 0.05  | 1.65  | -3.12 | -3.75 | -3.27 | -8.91  | -7.25  | -7.15  | -12.47 |
| 75        | -10    | -6.94 | -1.98 | 1.99  | 0.88  | 0.22  | -5.14 | -5.26 | -4.66 | -6.39  | -9.65  | -7.74  | -12.47 |
| 90        | -9.94  | -8.26 | -0.39 | 2.04  | 1.54  | 0.85  | -6.37 | -5.64 | -3.23 | -5.04  | -9.79  | -6.15  | -12.47 |
| 105       | -9.68  | -7.72 | -0.14 | 2.88  | 0.98  | 0.98  | -6.67 | -4.83 | -4.05 | -3.92  | -8.81  | -4.95  | -12.47 |
| 120       | -9.59  | -7.22 | -1.55 | 1.45  | 0.44  | -0.86 | -5.53 | -4.8  | -2.32 | -5.37  | -7.4   | -6.53  | -12.47 |
| 135       | -9.23  | -7.47 | -1.7  | 1.17  | 0.43  | -0.94 | -7.28 | -8.77 | -1.37 | -5.32  | -8.2   | -9.26  | -12.47 |
| 150       | -9.89  | -7.85 | -1.1  | 2.46  | 0.8   | 0.5   | -4.55 | -4.65 | -3.28 | -6.6   | -7.4   | -10.07 | -12.47 |
| 165       | -9.95  | -7.45 | -2.1  | 3.05  | 1.97  | 2.29  | -5.53 | -2.24 | -5.97 | -6.91  | -8.49  | -11.78 | -12.47 |
| 180       | -9.52  | -7.16 | -2.55 | 2.32  | 1.49  | 1.84  | -4.58 | -2.2  | -4.29 | -7.82  | -8.64  | -10.63 | -12.47 |
| 195       | -9.67  | -6.98 | -2.19 | 1.36  | -0.54 | 0.9   | -3.15 | -3.44 | -3.76 | -8.85  | -9.99  | -8.28  | -12.47 |
| 210       | -9.72  | -6.8  | -1.29 | 0.74  | -1.14 | 0.46  | -4.72 | -7.1  | -5.64 | -5.74  | -10.56 | -7.13  | -12.47 |
| 225       | -9.72  | -6.44 | -0.27 | 0.66  | -0.95 | 0.33  | -6.11 | -5.08 | -6.85 | -7.11  | -5.93  | -6.96  | -12.47 |
| 240       | -10.38 | -6.8  | -0.39 | 1.1   | 0.28  | -0.18 | -4.26 | -6.2  | -3.25 | -6.15  | -5.56  | -6.44  | -12.47 |
| 255       | -9.98  | -6.6  | -1.22 | 1.49  | -0.14 | -0.45 | -4.24 | -5.96 | -3.72 | -6.63  | -6.64  | -3.94  | -12.47 |
| 270       | -9.58  | -5.87 | -1.34 | -0.05 | 0.62  | -1    | -5.28 | -7.22 | -4.24 | -6.7   | -8.01  | -3.77  | -12.47 |
| 285       | -9.51  | -5.82 | -2.92 | 0.71  | -0.02 | -2.72 | -6.77 | -6.68 | -2.6  | -9.44  | -8.16  | -3.74  | -12.47 |
| 300       | -9.83  | -6.26 | -3.58 | 0.99  | -0.2  | -1.14 | -2.8  | -5.62 | -3.08 | -14.88 | -9.29  | -3.67  | -12.47 |
| 315       | -9.86  | -7.05 | -1.53 | -0.56 | 0.98  | -0.03 | -3.68 | -6.42 | -3.66 | -11.65 | -6.63  | -3.68  | -12.47 |
| 330       | -10.24 | -7.19 | -2.21 | 1.6   | 0.28  | -0.52 | -6.57 | -5.95 | -3.83 | -6.49  | -5.8   | -4.21  | -12.47 |
| 345       | -10.03 | -7.37 | -2.99 | 2.58  | -1.72 | 0.45  | -6.39 | -6.74 | -4.04 | -8.32  | -6.05  | -5.48  | -12.47 |