

# Antenna Composite Gain Test Report

## 1. Test Information

|              |       |
|--------------|-------|
| Equipment    | EMT   |
| Brand Name   | Nokia |
| Model Name   | B9    |
| Applicant    | Nokia |
| Manufacturer | Nokia |

## 2. Testing Location

| Testing Location               |                                                                             |
|--------------------------------|-----------------------------------------------------------------------------|
| <b>AOT<br/>Kunshan<br/>Lab</b> | ADD: 289 Jinghua Road, Shipai, Bacheng Town, Kunshan City, Jiangsu Province |

| Test Condition | Test Engineer | Test Environment<br>( °C / %) | Test Date             | Signature    |
|----------------|---------------|-------------------------------|-----------------------|--------------|
| Radiated       | Changgan Lai  | 20-24 / 45-60                 | 04.15.2025~04.16.2025 | Changgan Lai |

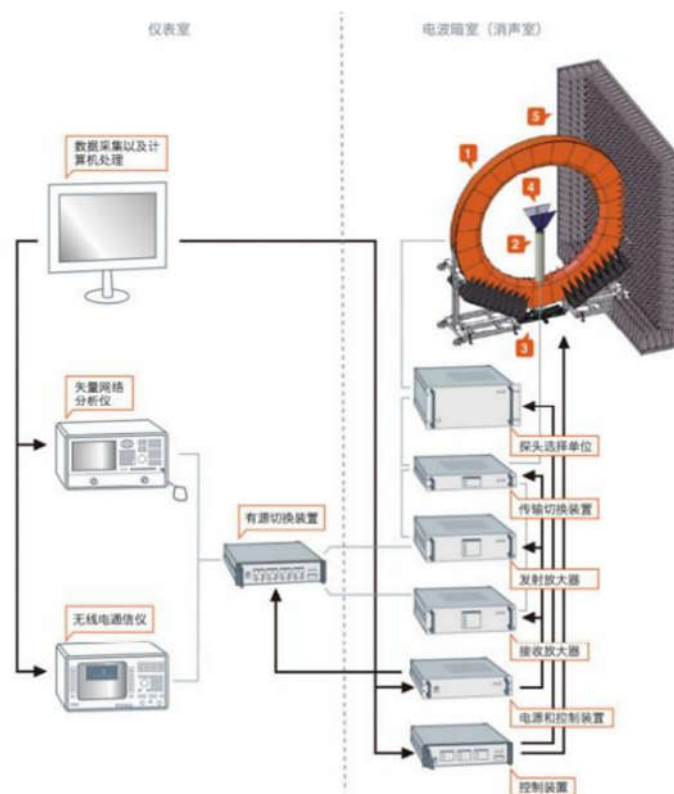
## 3. Test Frequency

| Band (MHz) | Test Frequency (MHz) |
|------------|----------------------|
| 2400-2500  | 2400/2450/2500       |
| 5150-5850  | 5150/5500/5850       |
| 5925-7125  | 5925/6500/7125       |

## 4. Antenna Information

| Ant. Position        | Brand Name | Model Name    | Ant. Type | Connector |
|----------------------|------------|---------------|-----------|-----------|
| Antenna 1 (2G4_Ant1) | Nokia      | ANT-P2425-N20 | Dipole    | I-PEX     |
| Antenna 2 (2G4_Ant2) | Nokia      | ANT-P2425-N21 | Dipole    | I-PEX     |
| Antenna 3 (5G_Ant1)  | Nokia      | ANT-M5158-N07 | Dipole    | I-PEX     |
| Antenna 4 (5G_Ant2)  | Nokia      | ANT-M5158-N08 | Dipole    | I-PEX     |
| Antenna 5 (6G_Ant1)  | Nokia      | ANT-M5972-N01 | Dipole    | I-PEX     |
| Antenna 6 (6G_Ant2)  | Nokia      | ANT-M5972-N02 | Dipole    | I-PEX     |

## 5. Test Configuration



Test Equipment: KEYSIGHT E5-71C  
 CALIBRATION PASS  
 CAL.DATA: 2025.2.10  
 NEXT CAL.DATA: 2026.2.9

## 6. Test Method

The “great circle” cut method, whereby the Measurement Antenna remains fixed and the EUT is rotated about two axes in sequential order. The radiated RF performance of the Equipment Under Test (EUT) is measured by sampling the radiated transmit power of the mobile at various locations surrounding the device. A three-dimensional characterization of the 'transmit' performance of the EUT is pieced together by analyzing the data from the spatially distributed measurements.

Data points taken every 2 degrees in the theta and in the phi axes are deemed sufficient to fully characterize the EUT's Far-Field radiation pattern and total radiated power. All of the measured power values will be integrated.

## 7. Measured Values and Calculation of Correlated /

## Uncorrelated Gains

**Antenna Peak Gain Table (Ant. Position: 2.4G Ant.1~2)**

| Band (MHz)           | 2400-2500 |      |      |
|----------------------|-----------|------|------|
| Frequency (MHz)      | 2400      | 2450 | 2500 |
| Ant.1 Max Gain (dBi) | 1.65      | 2.37 | 0.85 |
| Ant.2 Max Gain (dBi) | 2.45      | 2.86 | 3.64 |
| Max Gain (dBi)       | 2.45      | 2.86 | 3.64 |

**Antenna Peak Gain Table (Ant. Position: 5G Ant.3~4)**

| Band (MHz)           | 5150-5850 |      |      |
|----------------------|-----------|------|------|
| Frequency (MHz)      | 5150      | 5500 | 5850 |
| Ant.3 Max Gain (dBi) | 4.08      | 4.74 | 4.00 |
| Ant.4 Max Gain (dBi) | 1.47      | 1.82 | 0.69 |
| Max Gain (dBi)       | 4.08      | 4.74 | 4.00 |

**Antenna Peak Gain Table (Ant. Position: 6G Ant.5~6)**

| Band (MHz)           | 5925-7125 |      |      |
|----------------------|-----------|------|------|
| Frequency (MHz)      | 5925      | 6500 | 7125 |
| Ant.5 Max Gain (dBi) | 2.23      | 2.52 | 2.29 |
| Ant.6 Max Gain (dBi) | 2.37      | 2.80 | 3.20 |
| Max Gain (dBi)       | 2.37      | 2.80 | 3.20 |

Because the antennas are fixed in location within the device the directional antenna gain for MIMO is calculated over a sphere using the raw spatial data taken at 2 degree steps of theta and 10 degree of theta phi for each antenna using the equations from KDB 662911 D01. The raw antenna data is located in the appendix of this report.

The correlated antenna gain was calculated using KDB 662911 D01F(2)(f)(ii) for CDD and KDB 662911 D01, F(2)(e)(ii) for TxBF.

The uncorrelated antenna gain was calculated using KDB 662911 D01F(2)(d)(ii) for SDM.

The correlated and uncorrelated gains were calculated for each point in the spatial data and the highest values reported.

(ii) If antenna gains are not equal, the user may use either of the following methods to calculate directional gain. provided that each transmit antenna s driven by only one spatial stream.

- Directional gain may be calculated by using the formulas applicable to equal gain antennas with  $G_{ur}$  set equal to the gain of the antenna having the highest gain, or.

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

If all transmit signals are completely uncorrelated, then

$$Directional\ gain = 10 \log[(10^{G_1/10} + 10^{G_2/10} + \dots + 10^{G_N/10})/N_{ANT}] \text{ dBi}$$

## Maximum Correlated / Uncorrelated Gain Calculation

### Correlated Gain

**(Ant. Position: 2.4G Ant.1~2)**

|                               |      |      |       |
|-------------------------------|------|------|-------|
| Frequency (MHz)               | 2400 | 2450 | 2500  |
| Ant.1 Gain(dBi)               | 0.53 | 0.60 | -0.75 |
| Ant.2 Gain(dBi)               | 1.45 | 2.55 | 2.71  |
| Phi (° )                      | 126  | 130  | 12    |
| Theta (° )                    | 92   | 92   | -58   |
| Beamforming                   | 4.01 | 4.64 | 4.16  |
| Non Beamforming<br>(CDD MODE) | 4.01 | 4.64 | 4.16  |

**(Ant. Position: 5G Ant.3~4)**

|                               |       |       |       |
|-------------------------------|-------|-------|-------|
| Frequency (MHz)               | 5150  | 5500  | 5850  |
| Ant.3 Gain(dBi)               | 1.63  | 4.70  | 3.09  |
| Ant.4 Gain(dBi)               | -0.68 | -7.91 | -1.35 |
| Phi (° )                      | 154   | 136   | 166   |
| Theta (° )                    | -74   | 108   | -44   |
| Beamforming                   | 3.56  | 3.52  | 4.16  |
| Non Beamforming<br>(CDD MODE) | 3.56  | 3.52  | 4.16  |

**(Ant. Position: 6G Ant.5~6)**

|                               |      |      |      |
|-------------------------------|------|------|------|
| Frequency (MHz)               | 5925 | 6500 | 7125 |
| Ant.5 Gain(dBi)               | 2.23 | 2.52 | 2.14 |
| Ant.6 Gain(dBi)               | 2.37 | 2.75 | 3.15 |
| Phi (° )                      | 8    | 8    | 6    |
| Theta (° )                    | -72  | -44  | -78  |
| Beamforming                   | 5.31 | 5.65 | 5.67 |
| Non Beamforming<br>(CDD MODE) | 5.31 | 5.65 | 5.67 |

Calculation example

$$10 \times \log\left\{\left[10^{(0.53\text{dBi} / 20)} + 10^{(1.45 \text{ dBi} / 20)}\right]^2 / 4\right\} = 4.01\text{dBi}$$

**Uncorrelated Gain****(Ant. Position: 2.4G Ant.1~2)**

|                   |      |      |       |
|-------------------|------|------|-------|
| Frequency (MHz)   | 2400 | 2450 | 2500  |
| Ant.1 Gain(dBi)   | 0.53 | 0.56 | -2.68 |
| Ant.2 Gain(dBi)   | 1.45 | 2.58 | 3.60  |
| Phi (° )          | 126  | 132  | 144   |
| Theta (° )        | 92   | 92   | 58    |
| Uncorrelated Gain | 1.01 | 1.69 | 1.51  |

**(Ant. Position: 5G Ant.3~4)**

|                 |        |       |       |
|-----------------|--------|-------|-------|
| Frequency (MHz) | 5150   | 5500  | 5850  |
| Ant.3 Gain(dBi) | 4.08   | 4.74  | 3.41  |
| Ant.4 Gain(dBi) | -14.87 | -8.52 | -2.09 |

|                   |      |      |      |
|-------------------|------|------|------|
| Phi (° )          | 126  | 136  | 168  |
| Theta (° )        | 110  | 106  | -42  |
| Uncorrelated Gain | 1.12 | 1.93 | 1.48 |

**(Ant. Position: 6G Ant.5~6)**

|                   |      |      |      |
|-------------------|------|------|------|
| Frequency (MHz)   | 5925 | 6500 | 7125 |
| Ant.5 Gain(dBi)   | 2.23 | 2.52 | 2.14 |
| Ant.6 Gain(dBi)   | 2.37 | 2.75 | 3.15 |
| Phi (° )          | 8    | 8    | 6    |
| Theta (° )        | -72  | -44  | -78  |
| Uncorrelated Gain | 2.30 | 2.64 | 2.67 |

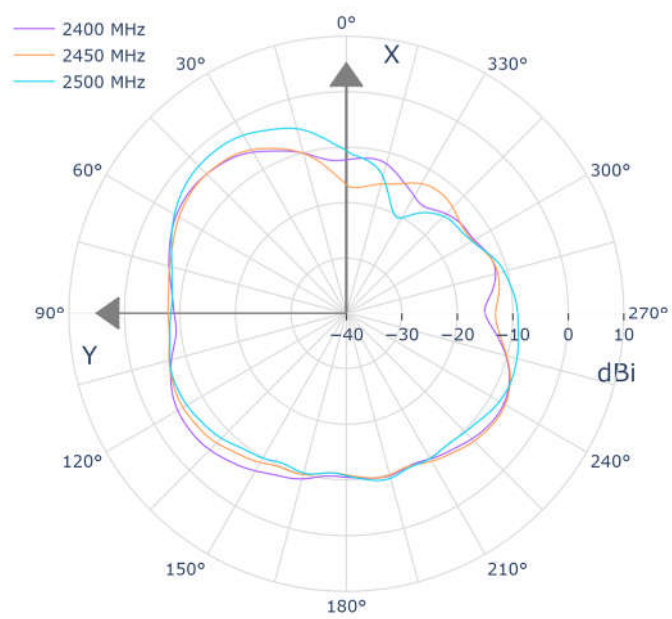
Calculation example

$$=10 \times \log_{10}(((10^{(0.53 \text{ dBi} / 10)} + 10^{(1.45 \text{ dBi} / 10)})) / 2) = 1.01 \text{ dBi}$$

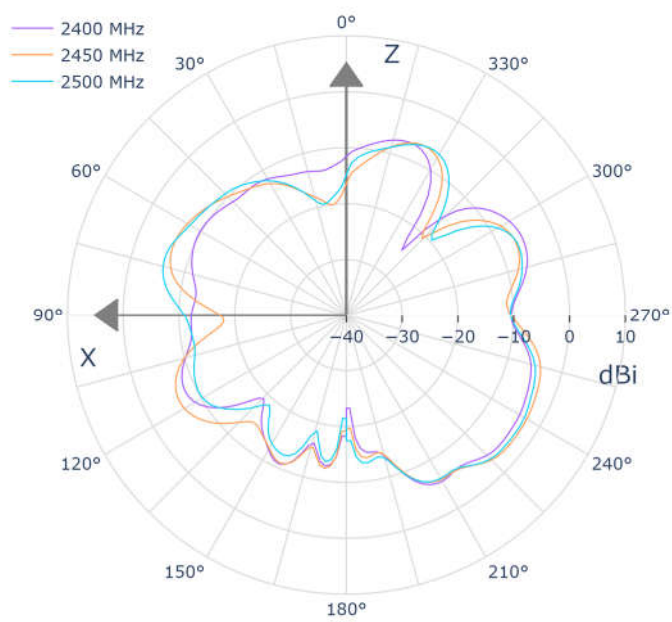
## 8. Radiation Pattern

**Ant. Position: 2.4G Ant.1~2**

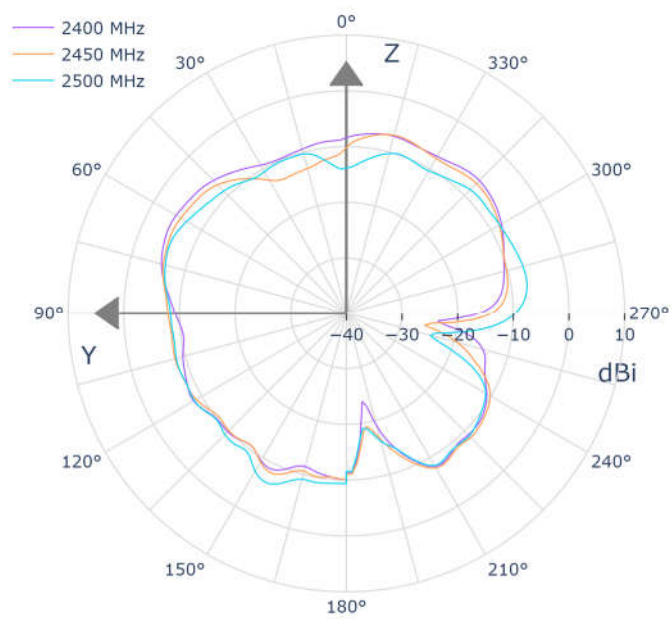
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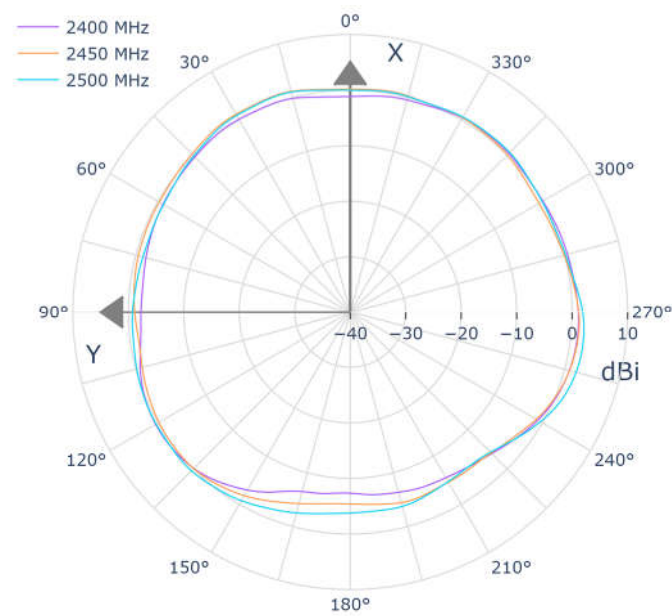
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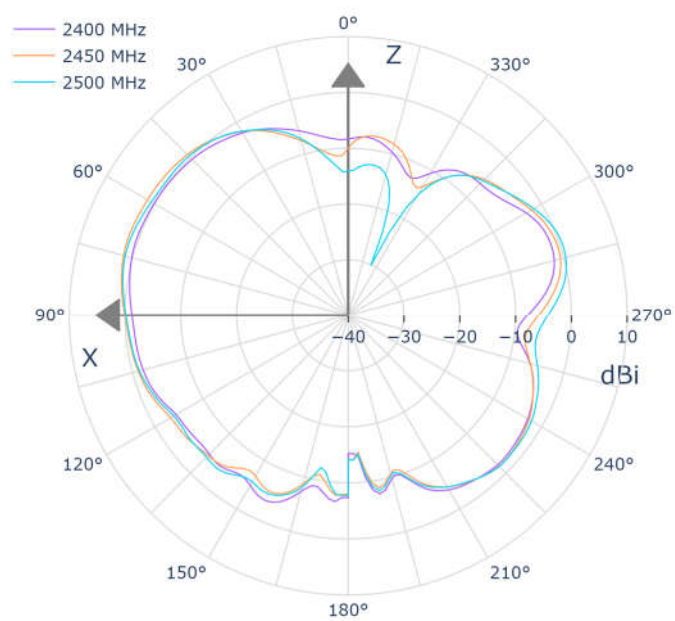
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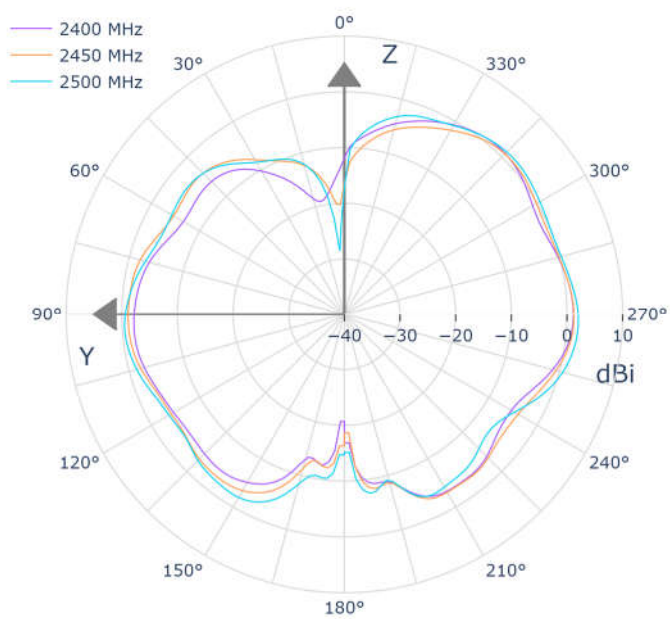
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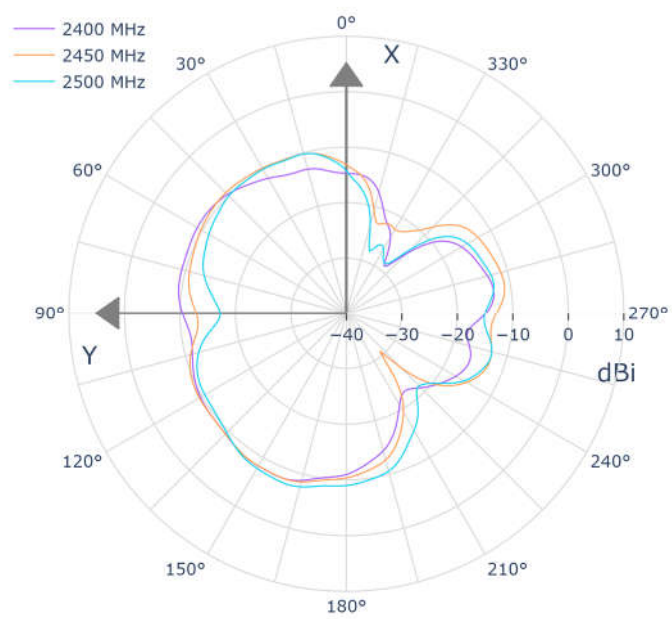
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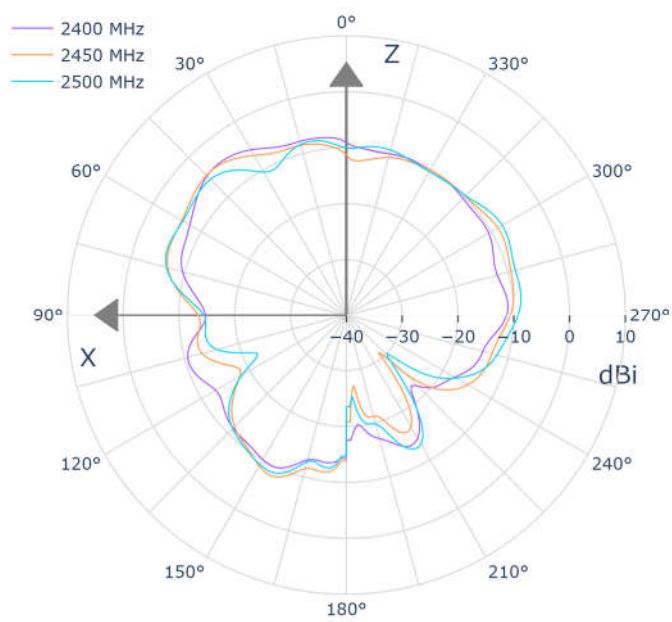
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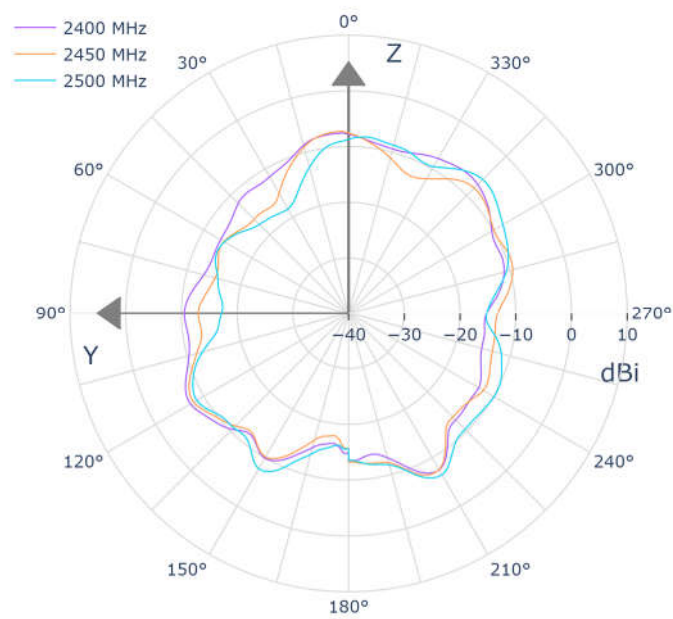
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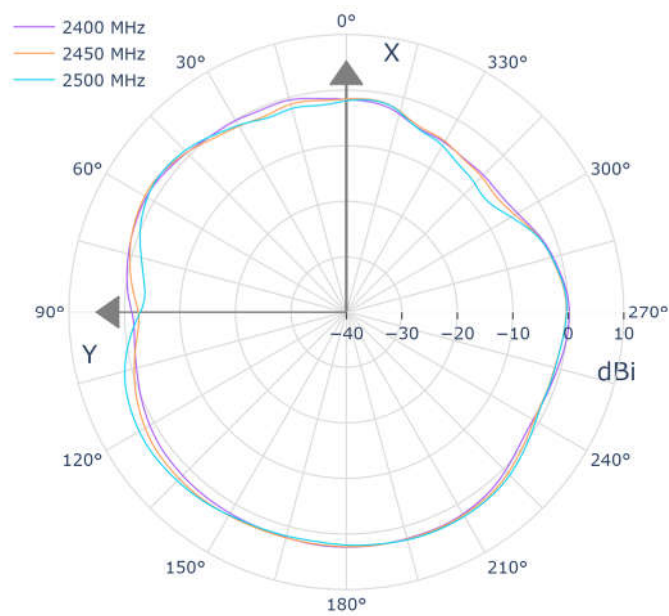
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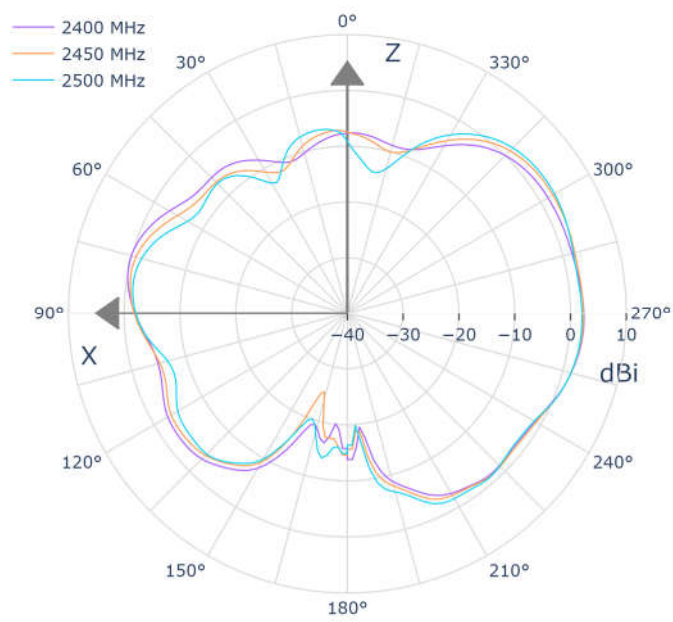
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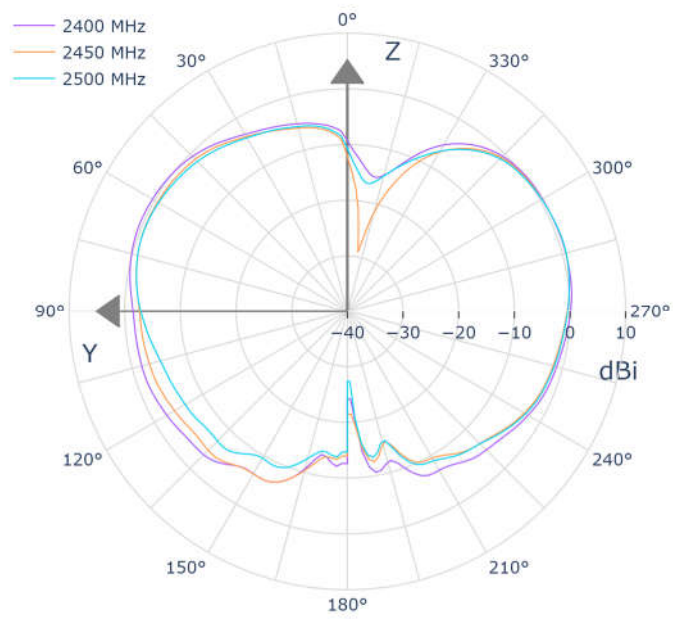
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**XZ\_Pol.\_Theta\_Ant.2@2.4G**

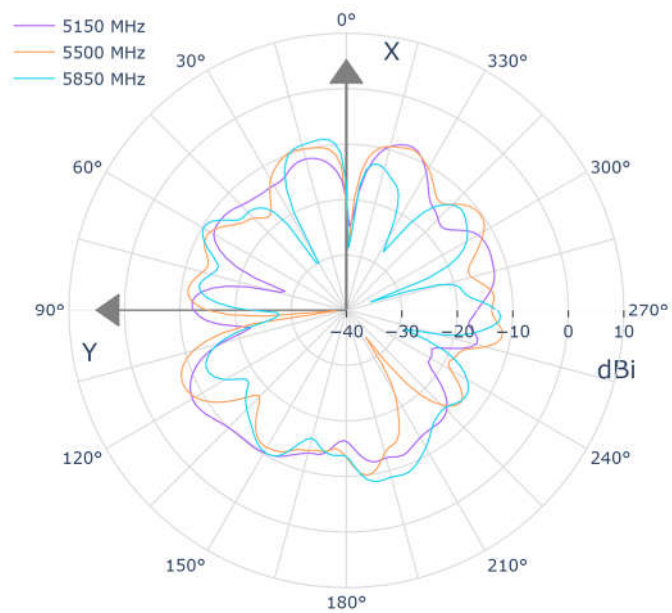


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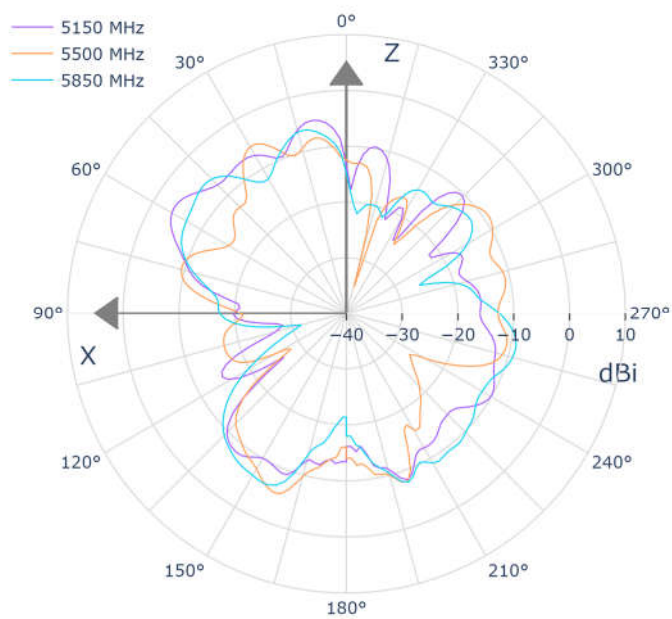


**Ant. Position: 5G Ant.3~4**

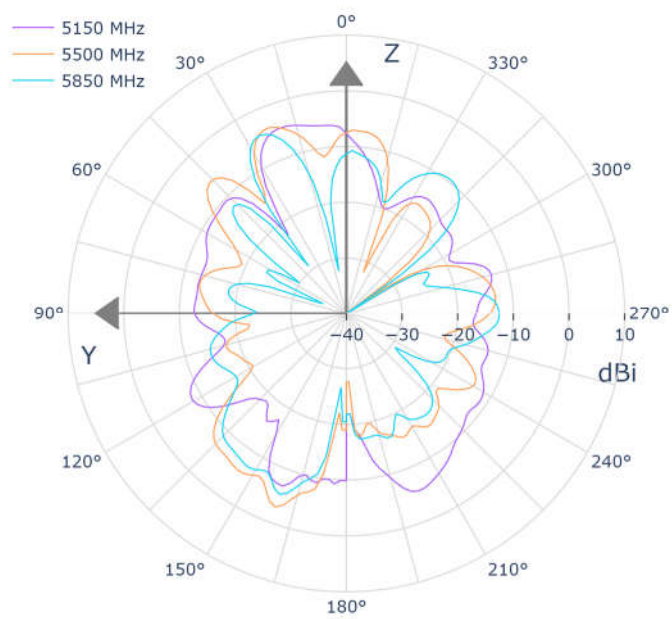
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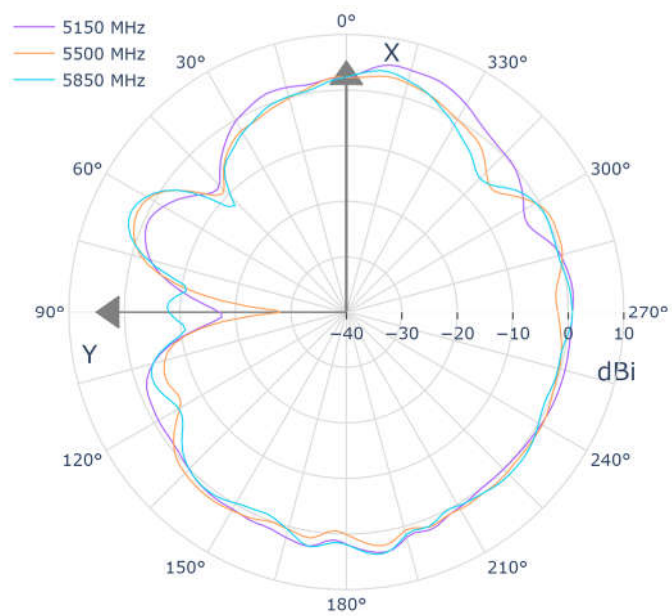
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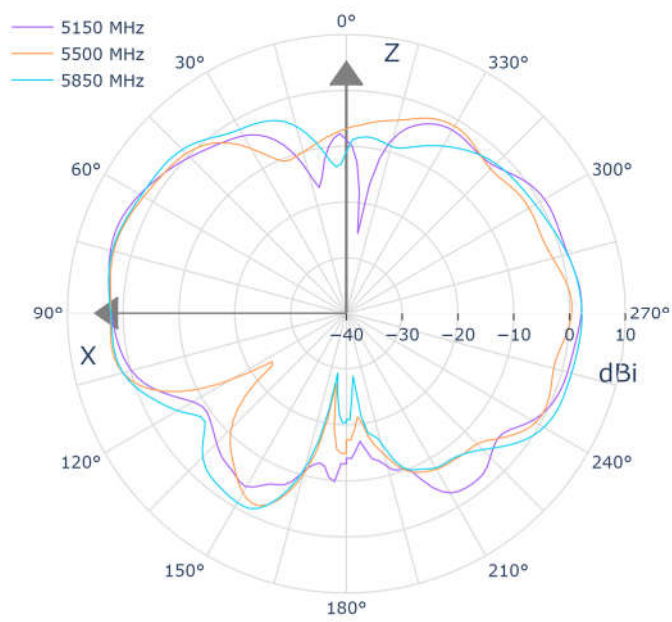
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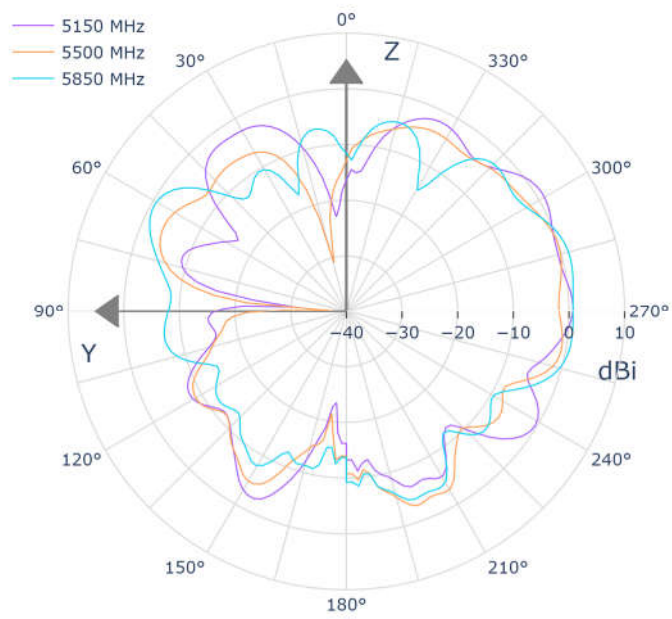
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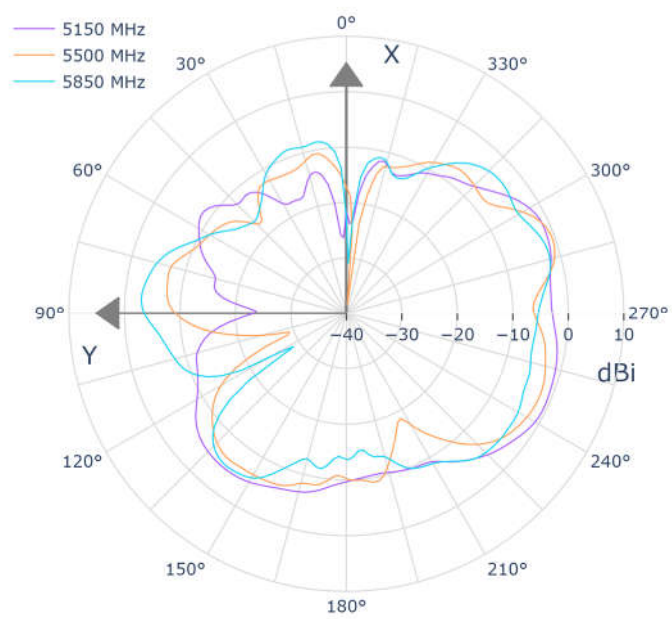
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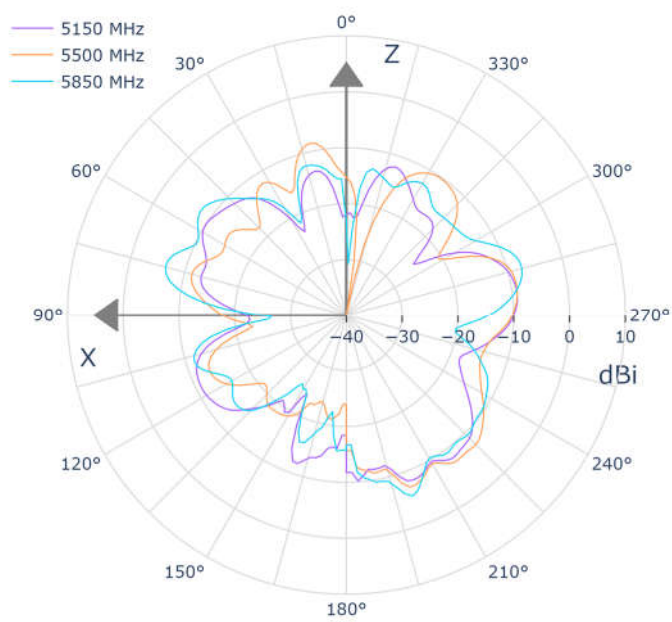
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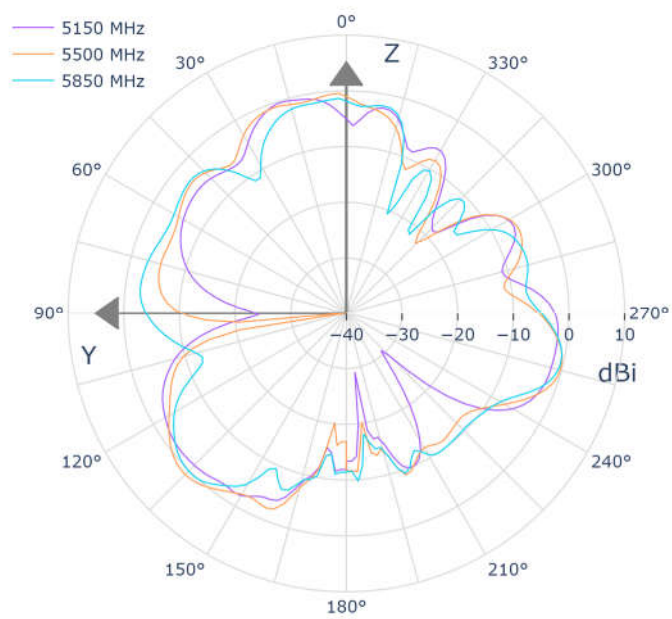
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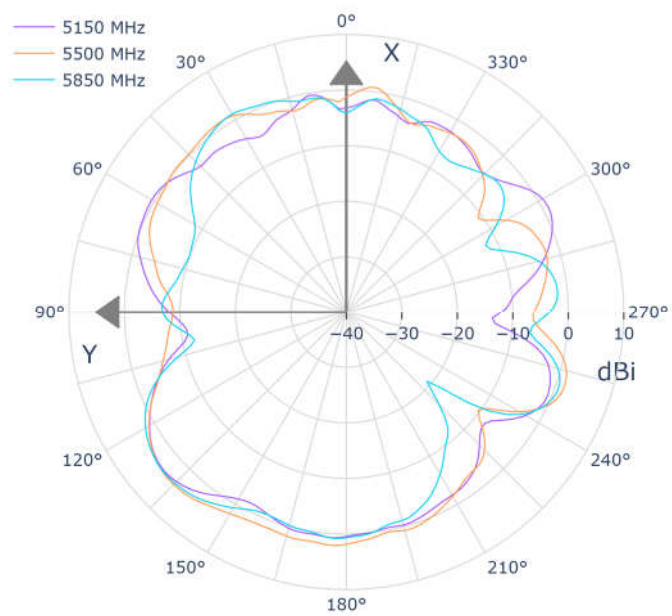
**XZ\_Pol.\_Phi\_Ant.4@5G**



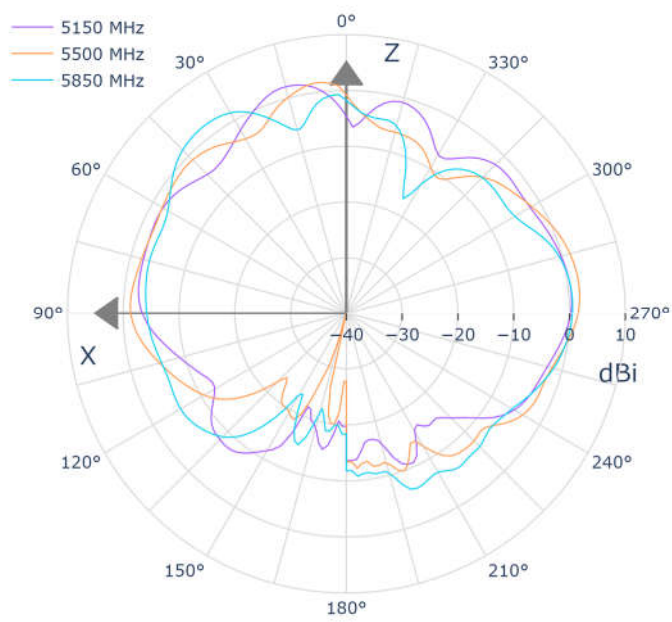
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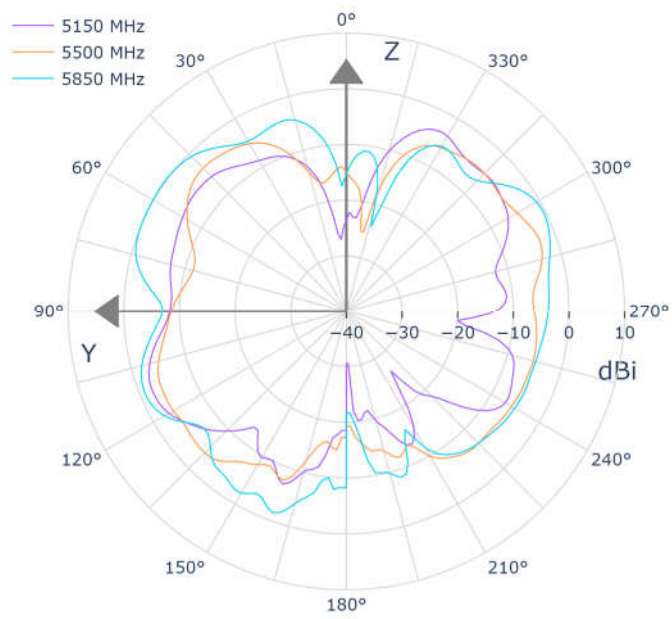
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**XZ\_Pol.\_Theta\_Ant.4@5G**

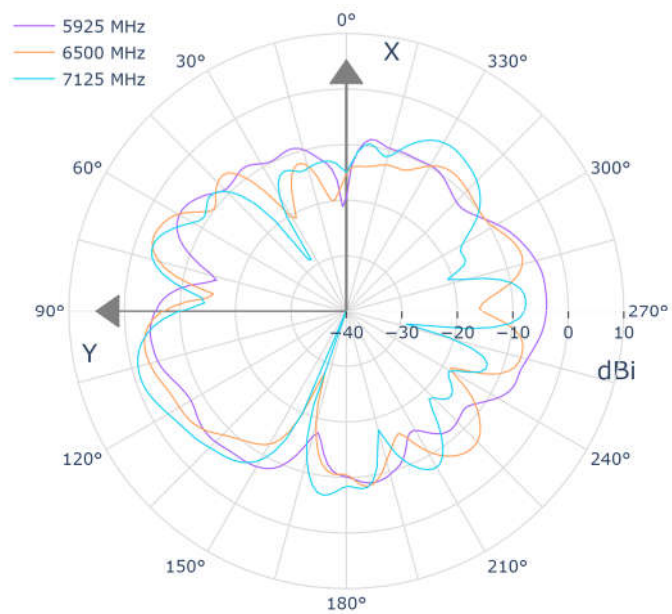


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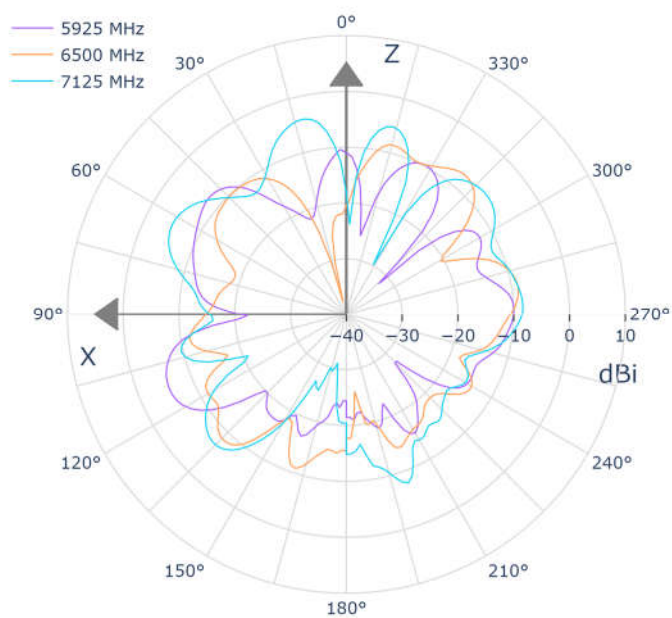


**Ant. Position: 6G Ant.5~6**

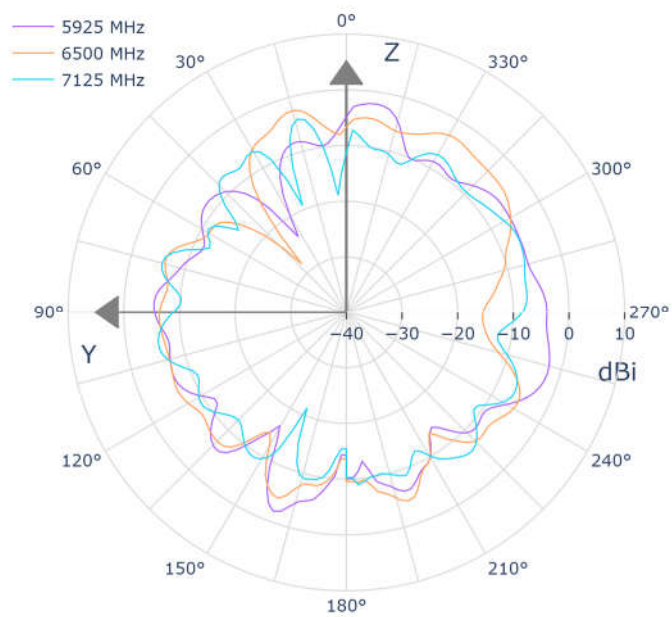
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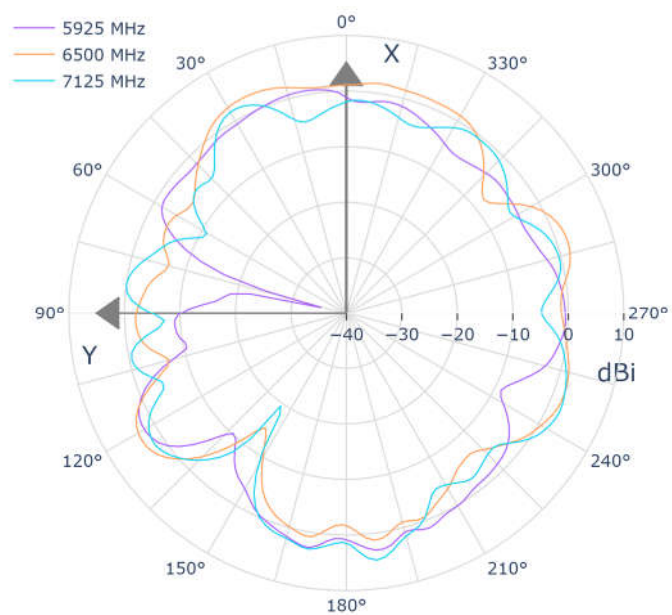
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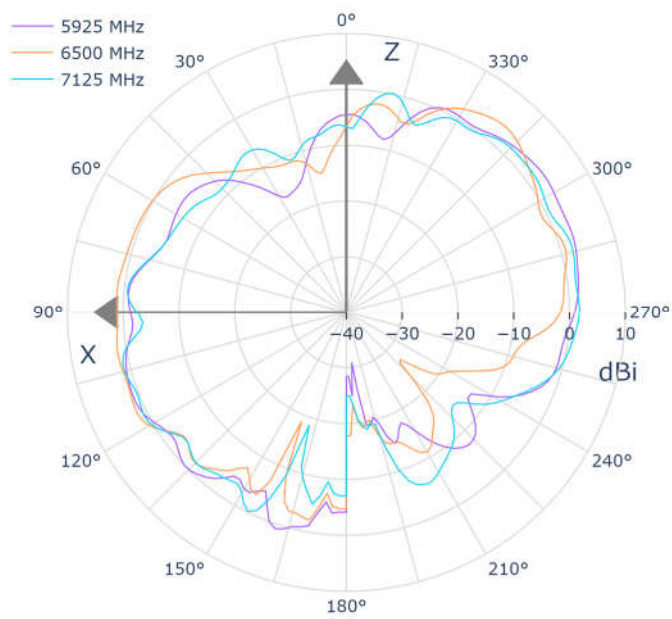
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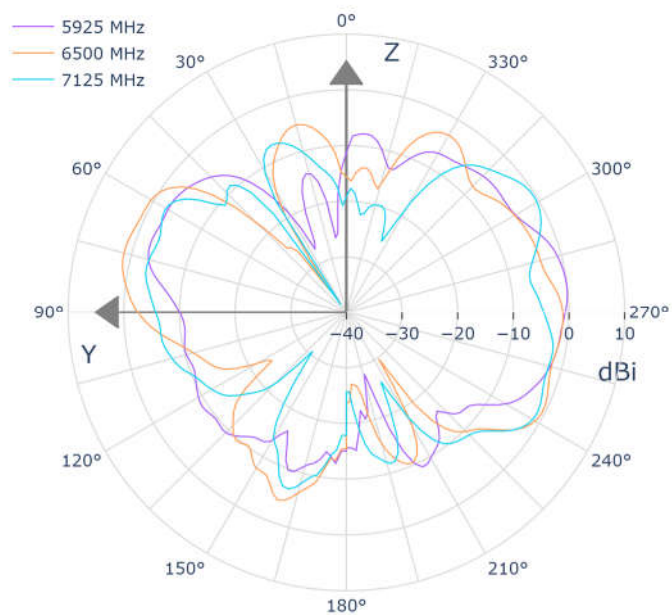
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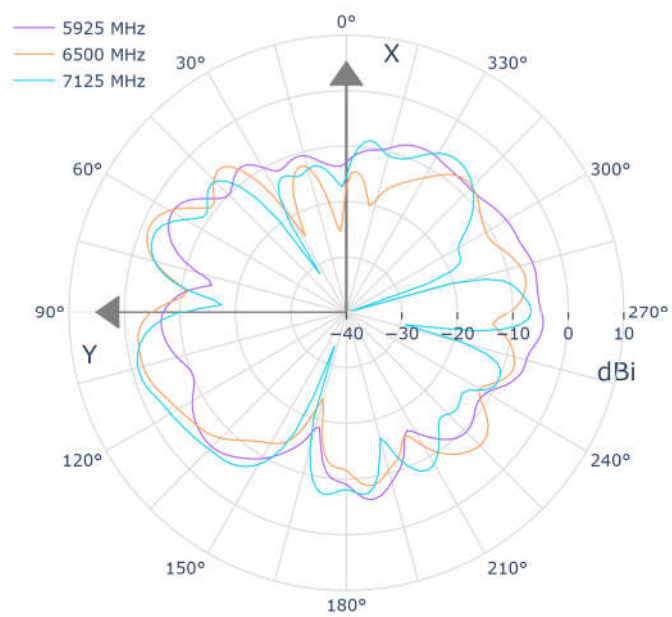
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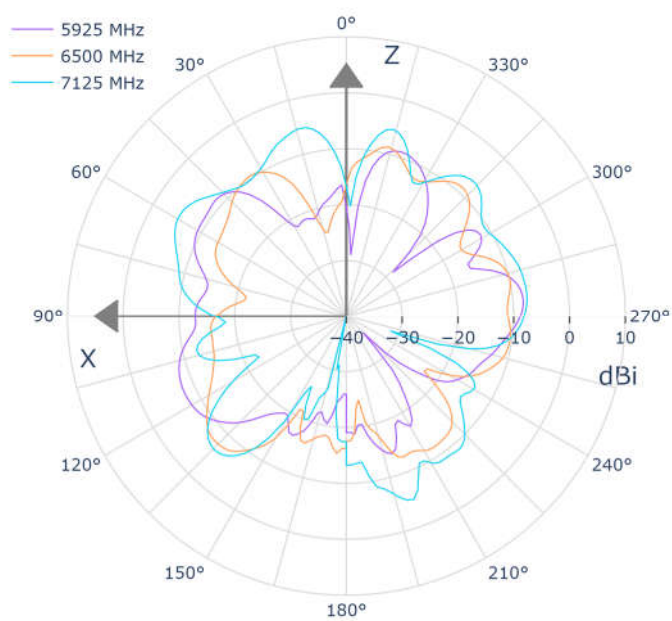
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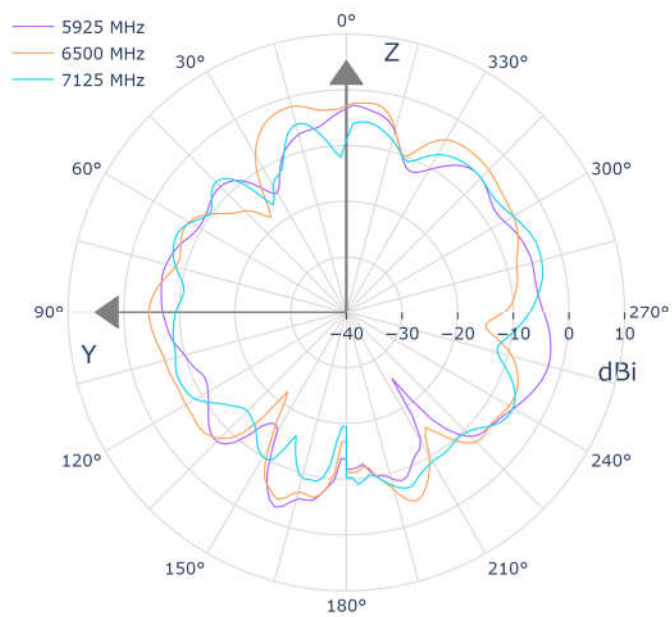
### XY\_Pol.\_Phi\_Ant.6@6G



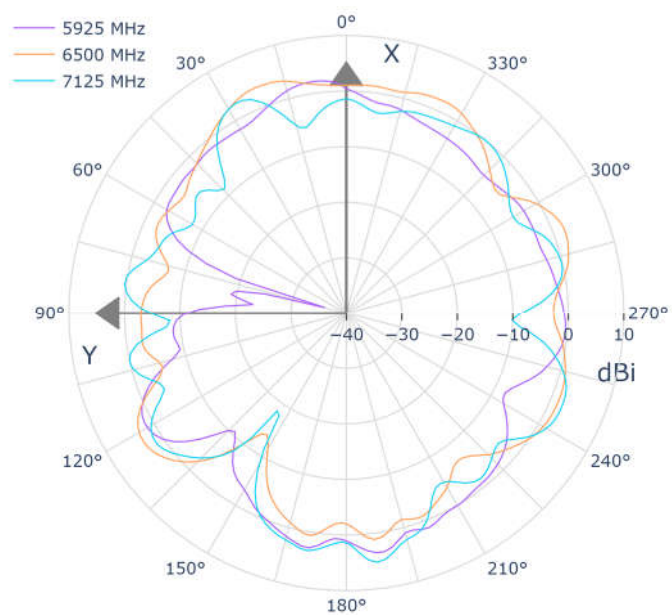
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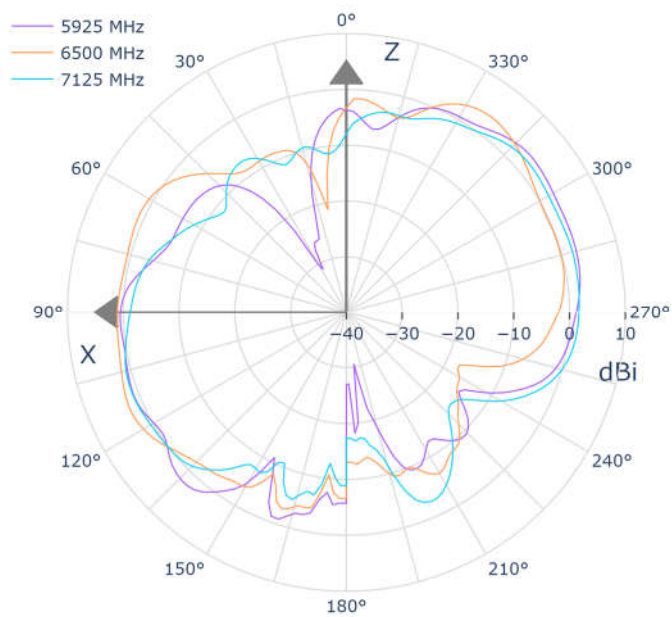
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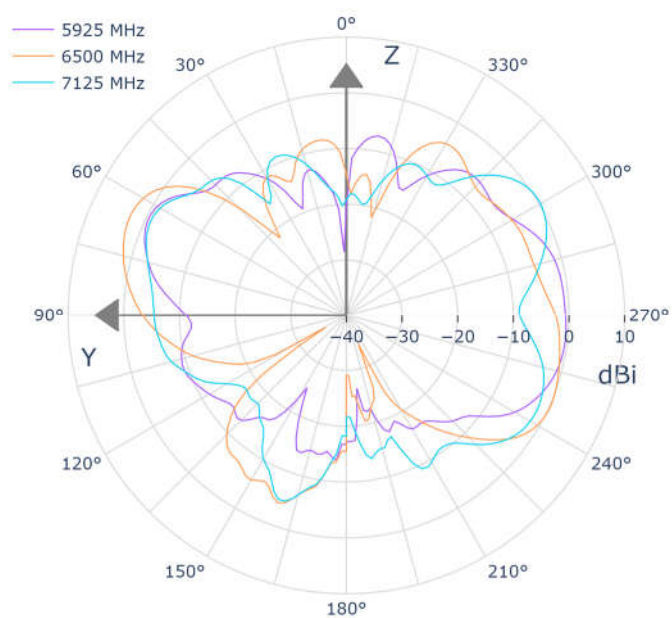
### XY\_Pol.\_Theta\_Ant.6@6G



### XZ\_Pol.\_Theta\_Ant.6@6G



### YZ\_Pol.\_Theta\_Ant.6@6G



## Appendix \_Radiated Total Gain Result



[illegible]



**Ant. Position: 2.4G Ant.2\_GAIN THETA**

|    |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 1  | 100    | 130    | 180    | 150    | 140    | 130    | 120    | 110    | 100    | 90     | 80     | 70     | 60     | 50     | 40     | 30     | 20     | 10     | 0      | -10    | -20    | -30    | -40    | -50    | -60    | -70    | -80    | -90    | -100   | -110    | -120    | -130    | -140    | -150    | -160    | -170    | -180    | -190    | -200    |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 2  | 118.84 | 131.24 | 184.88 | 152.77 | 141.77 | 130.77 | 120.77 | 110.77 | 100.77 | 90.77  | 80.77  | 70.77  | 60.77  | 50.77  | 40.77  | 30.77  | 20.77  | 10.77  | 0.77   | -9.77  | -19.77 | -29.77 | -39.77 | -49.77 | -59.77 | -69.77 | -79.77 | -89.77 | -99.77 | -109.77 | -119.77 | -129.77 | -139.77 | -149.77 | -159.77 | -169.77 | -179.77 | -189.77 | -199.77 | -209.77 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 3  | 137.67 | 150.07 | 203.71 | 171.64 | 160.64 | 149.64 | 139.64 | 129.64 | 119.64 | 109.64 | 99.64  | 89.64  | 79.64  | 69.64  | 59.64  | 49.64  | 39.64  | 29.64  | 19.64  | 9.64   | -0.64  | -10.64 | -20.64 | -30.64 | -40.64 | -50.64 | -60.64 | -70.64 | -80.64 | -90.64  | -100.64 | -110.64 | -120.64 | -130.64 | -140.64 | -150.64 | -160.64 | -170.64 | -180.64 | -190.64 | -200.64 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 4  | 156.50 | 168.90 | 222.54 | 190.47 | 179.47 | 168.47 | 158.47 | 148.47 | 138.47 | 128.47 | 118.47 | 108.47 | 98.47  | 88.47  | 78.47  | 68.47  | 58.47  | 48.47  | 38.47  | 28.47  | 18.47  | 8.47   | -1.47  | -11.47 | -21.47 | -31.47 | -41.47 | -51.47 | -61.47 | -71.47  | -81.47  | -91.47  | -101.47 | -111.47 | -121.47 | -131.47 | -141.47 | -151.47 | -161.47 | -171.47 | -181.47 | -191.47 | -201.47 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 5  | 175.33 | 187.73 | 241.37 | 209.30 | 198.30 | 187.30 | 177.30 | 167.30 | 157.30 | 147.30 | 137.30 | 127.30 | 117.30 | 107.30 | 97.30  | 87.30  | 77.30  | 67.30  | 57.30  | 47.30  | 37.30  | 27.30  | 17.30  | 7.30   | -1.70  | -11.70 | -21.70 | -31.70 | -41.70 | -51.70  | -61.70  | -71.70  | -81.70  | -91.70  | -101.70 | -111.70 | -121.70 | -131.70 | -141.70 | -151.70 | -161.70 | -171.70 | -181.70 | -191.70 | -201.70 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 6  | 194.16 | 206.56 | 260.20 | 228.13 | 217.13 | 206.13 | 196.13 | 186.13 | 176.13 | 166.13 | 156.13 | 146.13 | 136.13 | 126.13 | 116.13 | 106.13 | 96.13  | 86.13  | 76.13  | 66.13  | 56.13  | 46.13  | 36.13  | 26.13  | 16.13  | 6.13   | -1.13  | -11.13 | -21.13 | -31.13  | -41.13  | -51.13  | -61.13  | -71.13  | -81.13  | -91.13  | -101.13 | -111.13 | -121.13 | -131.13 | -141.13 | -151.13 | -161.13 | -171.13 | -181.13 | -191.13 | -201.13 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 7  | 212.99 | 225.39 | 279.03 | 246.96 | 235.96 | 224.96 | 214.96 | 204.96 | 194.96 | 184.96 | 174.96 | 164.96 | 154.96 | 144.96 | 134.96 | 124.96 | 114.96 | 104.96 | 94.96  | 84.96  | 74.96  | 64.96  | 54.96  | 44.96  | 34.96  | 24.96  | 14.96  | 4.96   | -1.04  | -11.04  | -21.04  | -31.04  | -41.04  | -51.04  | -61.04  | -71.04  | -81.04  | -91.04  | -101.04 | -111.04 | -121.04 | -131.04 | -141.04 | -151.04 | -161.04 | -171.04 | -181.04 | -191.04 | -201.04 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 8  | 231.82 | 244.22 | 297.86 | 265.79 | 254.79 | 243.79 | 233.79 | 223.79 | 213.79 | 203.79 | 193.79 | 183.79 | 173.79 | 163.79 | 153.79 | 143.79 | 133.79 | 123.79 | 113.79 | 103.79 | 93.79  | 83.79  | 73.79  | 63.79  | 53.79  | 43.79  | 33.79  | 23.79  | 13.79  | 3.79    | -1.03   | -11.03  | -21.03  | -31.03  | -41.03  | -51.03  | -61.03  | -71.03  | -81.03  | -91.03  | -101.03 | -111.03 | -121.03 | -131.03 | -141.03 | -151.03 | -161.03 | -171.03 | -181.03 | -191.03 | -201.03 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 9  | 250.65 | 263.05 | 316.69 | 284.62 | 273.62 | 262.62 | 252.62 | 242.62 | 232.62 | 222.62 | 212.62 | 202.62 | 192.62 | 182.62 | 172.62 | 162.62 | 152.62 | 142.62 | 132.62 | 122.62 | 112.62 | 102.62 | 92.62  | 82.62  | 72.62  | 62.62  | 52.62  | 42.62  | 32.62  | 22.62   | 12.62   | 2.62    | -1.02   | -11.02  | -21.02  | -31.02  | -41.02  | -51.02  | -61.02  | -71.02  | -81.02  | -91.02  | -101.02 | -111.02 | -121.02 | -131.02 | -141.02 | -151.02 | -161.02 | -171.02 | -181.02 | -191.02 | -201.02 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 10 | 269.48 | 281.88 | 335.52 | 303.45 | 292.45 | 281.45 | 271.45 | 261.45 | 251.45 | 241.45 | 231.45 | 221.45 | 211.45 | 201.45 | 191.45 | 181.45 | 171.45 | 161.45 | 151.45 | 141.45 | 131.45 | 121.45 | 111.45 | 101.45 | 91.45  | 81.45  | 71.45  | 61.45  | 51.45  | 41.45   | 31.45   | 21.45   | 11.45   | 1.45    | -1.01   | -11.01  | -21.01  | -31.01  | -41.01  | -51.01  | -61.01  | -71.01  | -81.01  | -91.01  | -101.01 | -111.01 | -121.01 | -131.01 | -141.01 | -151.01 | -161.01 | -171.01 | -181.01 | -191.01 | -201.01 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 11 | 288.31 | 300.71 | 354.35 | 322.28 | 311.28 | 300.28 | 290.28 | 280.28 | 270.28 | 260.28 | 250.28 | 240.28 | 230.28 | 220.28 | 210.28 | 200.28 | 190.28 | 180.28 | 170.28 | 160.28 | 150.28 | 140.28 | 130.28 | 120.28 | 110.28 | 100.28 | 90.28  | 80.28  | 70.28  | 60.28   | 50.28   | 40.28   | 30.28   | 20.28   | 10.28   | 0.28    | -1.00   | -11.00  | -21.00  | -31.00  | -41.00  | -51.00  | -61.00  | -71.00  | -81.00  | -91.00  | -101.00 | -111.00 | -121.00 | -131.00 | -141.00 | -151.00 | -161.00 | -171.00 | -181.00 | -191.00 | -201.00 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 12 | 307.14 | 319.54 | 373.18 | 341.11 | 330.11 | 319.11 | 309.11 | 299.11 | 289.11 | 279.11 | 269.11 | 259.11 | 249.11 | 239.11 | 229.11 | 219.11 | 209.11 | 199.11 | 189.11 | 179.11 | 169.11 | 159.11 | 149.11 | 139.11 | 129.11 | 119.11 | 109.11 | 99.11  | 89.11  | 79.11   | 69.11   | 59.11   | 49.11   | 39.11   | 29.11   | 19.11   | 9.11    | -1.00   | -11.00  | -21.00  | -31.00  | -41.00  | -51.00  | -61.00  | -71.00  | -81.00  | -91.00  | -101.00 | -111.00 | -121.00 | -131.00 | -141.00 | -151.00 | -161.00 | -171.00 | -181.00 | -191.00 | -201.00 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 13 | 325.97 | 338.37 | 392.01 | 359.94 | 348.94 | 337.94 | 327.94 | 317.94 | 307.94 | 297.94 | 287.94 | 277.94 | 267.94 | 257.94 | 247.94 | 237.94 | 227.94 | 217.94 | 207.94 | 197.94 | 187.94 | 177.94 | 167.94 | 157.94 | 147.94 | 137.94 | 127.94 | 117.94 | 107.94 | 97.94   | 87.94   | 77.94   | 67.94   | 57.94   | 47.94   | 37.94   | 27.94   | 17.94   | 7.94    | -1.00   | -11.00  | -21.00  | -31.00  | -41.00  | -51.00  | -61.00  | -71.00  | -81.00  | -91.00  | -101.00 | -111.00 | -121.00 | -131.00 | -141.00 | -151.00 | -161.00 | -171.00 | -181.00 | -191.00 | -201.00 |         |         |         |         |         |         |         |         |         |         |         |         |         |
| 14 | 344.80 | 357.20 | 410.84 | 378.77 | 367.77 | 356.77 | 346.77 | 336.77 | 326.77 | 316.77 | 306.77 | 296.77 | 286.77 | 276.77 | 266.77 | 256.77 | 246.77 | 236.77 | 226.77 | 216.77 | 206.77 | 196.77 | 186.77 | 176.77 | 166.77 | 156.77 | 146.77 | 136.77 | 126.77 | 116.77  | 106.77  | 96.77   | 86.77   | 76.77   | 66.77   | 56.77   | 46.77   | 36.77   | 26.77   | 16.77   | 6.77    | -1.00   | -11.00  | -21.00  | -31.00  | -41.00  | -51.00  | -61.00  | -71.00  | -81.00  | -91.00  | -101.00 | -111.00 | -121.00 | -131.00 | -141.00 | -151.00 | -161.00 | -171.00 | -181.00 | -191.00 | -201.00 |         |         |         |         |         |         |         |         |         |         |         |
| 15 | 363.63 | 376.03 | 429.67 | 397.60 | 386.60 | 375.60 | 365.60 | 355.60 | 345.60 | 335.60 | 325.60 | 315.60 | 305.60 | 295.60 | 285.60 | 275.60 | 265.60 | 255.60 | 245.60 | 235.60 | 225.60 | 215.60 | 205.60 | 195.60 | 185.60 | 175.60 | 165.60 | 155.60 | 145.60 | 135.60  | 125.60  | 115.60  | 105.60  | 95.60   | 85.60   | 75.60   | 65.60   | 55.60   | 45.60   | 35.60   | 25.60   | 15.60   | 5.60    | -1.00   | -11.00  | -21.00  | -31.00  | -41.00  | -51.00  | -61.00  | -71.00  | -81.00  | -91.00  | -101.00 | -111.00 | -121.00 | -131.00 | -141.00 | -151.00 | -161.00 | -171.00 | -181.00 | -191.00 | -201.00 |         |         |         |         |         |         |         |         |         |
| 16 | 382.46 | 394.86 | 448.50 | 416.43 | 405.43 | 394.43 | 384.43 | 374.43 | 364.43 | 354.43 | 344.43 | 334.43 | 324.43 | 314.43 | 304.43 | 294.43 | 284.43 | 274.43 | 264.43 | 254.43 | 244.43 | 234.43 | 224.43 | 214.43 | 204.43 | 194.43 | 184.43 | 174.43 | 164.43 | 154.43  | 144.43  | 134.43  | 124.43  | 114.43  | 104.43  | 94.43   | 84.43   | 74.43   | 64.43   | 54.43   | 44.43   | 34.43   | 24.43   | 14.43   | 4.43    | -1.00   | -11.00  | -21.00  | -31.00  | -41.00  | -51.00  | -61.00  | -71.00  | -81.00  | -91.00  | -101.00 | -111.00 | -121.00 | -131.00 | -141.00 | -151.00 | -161.00 | -171.00 | -181.00 | -191.00 | -201.00 |         |         |         |         |         |         |         |
| 17 | 401.29 | 413.69 | 467.33 | 435.26 | 424.26 | 413.26 | 403.26 | 393.26 | 383.26 | 373.26 | 363.26 | 353.26 | 343.26 | 333.26 | 323.26 | 313.26 | 303.26 | 293.26 | 283.26 | 273.26 | 263.26 | 253.26 | 243.26 | 233.26 | 223.26 | 213.26 | 203.26 | 193.26 | 183.26 | 173.26  | 163.26  | 153.26  | 143.26  | 133.26  | 123.26  | 113.26  | 103.26  | 93.26   | 83.26   | 73.26   | 63.26   | 53.26   | 43.26   | 33.26   | 23.26   | 13.26   | 3.26    | -1.00   | -11.00  | -21.00  | -31.00  | -41.00  | -51.00  | -61.00  | -71.00  | -81.00  | -91.00  | -101.00 | -111.00 | -121.00 | -131.00 | -141.00 | -151.00 | -161.00 | -171.00 | -181.00 | -191.00 | -201.00 |         |         |         |         |         |
| 18 | 420.12 | 432.52 | 486.16 | 454.09 | 443.09 | 432.09 | 422.09 | 412.09 | 402.09 | 392.09 | 382.09 | 372.09 | 362.09 | 352.09 | 342.09 | 332.09 | 322.09 | 312.09 | 302.09 | 292.09 | 282.09 | 272.09 | 262.09 | 252.09 | 242.09 | 232.09 | 222.09 | 212.09 | 202.09 | 192.09  | 182.09  | 172.09  | 162.09  | 152.09  | 142.09  | 132.09  | 122.09  | 112.09  | 102.09  | 92.09   | 82.09   | 72.09   | 62.09   | 52.09   | 42.09   | 32.09   | 22.09   | 12.09   | 2.09    | -1.00   | -11.00  | -21.00  | -31.00  | -41.00  | -51.00  | -61.00  | -71.00  | -81.00  | -91.00  | -101.00 | -111.00 | -121.00 | -131.00 | -141.00 | -151.00 | -161.00 | -171.00 | -181.00 | -191.00 | -201.00 |         |         |         |
| 19 | 438.95 | 451.35 | 505.00 | 472.93 | 461.93 | 450.93 | 440.93 | 430.93 | 420.93 | 410.93 | 400.93 | 390.93 | 380.93 | 370.93 | 360.93 | 350.93 | 340.93 | 330.93 | 320.93 | 310.93 | 300.93 | 290.93 | 280.93 | 270.93 | 260.93 | 250.93 | 240.93 | 230.93 | 220.93 | 210.93  | 200.93  | 190.93  | 180.93  | 170.93  | 160.93  | 150.93  | 140.93  | 130.93  | 120.93  | 110.93  | 100.93  | 90.93   | 80.93   | 70.93   | 60.93   | 50.93   | 40.93   | 30.93   | 20.93   | 10.93   | 0.93    | -1.00   | -11.00  | -21.00  | -31.00  | -41.00  | -51.00  | -61.00  | -71.00  | -81.00  | -91.00  | -101.00 | -111.00 | -121.00 | -131.00 | -141.00 | -151.00 | -161.00 | -171.00 | -181.00 | -191.00 | -201.00 |         |
| 20 | 457.78 | 470.18 | 523.83 | 491.76 | 480.76 | 469.76 | 459.76 | 449.76 | 439.76 | 429.76 | 419.76 | 409.76 | 399.76 | 389.76 | 379.76 | 369.76 | 359.76 | 349.76 | 339.76 | 329.76 | 319.76 | 309.76 | 299.76 | 289.76 | 279.76 | 269.76 | 259.76 | 249.76 | 239.76 | 229.76  | 219.76  | 209.76  | 199.76  | 189.76  | 179.76  | 169.76  | 159.76  | 149.76  | 139.76  | 129.76  | 119.76  | 109.76  | 99.76   | 89.76   | 79.76   | 69.76   | 59.76   | 49.76   | 39.76   | 29.76   | 19.76   | 9.76    | -1.00   | -11.00  | -21.00  | -31.00  | -41.00  | -51.00  | -61.00  | -71.00  | -81.00  | -91.00  | -101.00 | -111.00 | -121.00 | -131.00 | -141.00 | -151.00 | -161.00 | -171.00 | -181.00 | -191.00 | -201.00 |
| 21 | 476.61 | 489.01 | 542.65 | 510.58 | 499.58 | 488.58 | 478.58 | 468.58 | 458.58 | 448.58 | 438.58 | 428.58 | 418.58 | 408.58 | 398.58 | 388.58 | 378.58 | 368.58 | 358.58 | 348.58 | 338.58 | 328.58 | 318.58 | 308.58 | 298.58 | 288.58 | 278.58 | 268.58 | 258.58 | 248.58  | 238.58  | 228.58  | 218.58  | 208.58  | 198.58  | 188.58  | 178.58  | 168.58  | 158.58  | 148.58  | 138.58  | 128.58  | 118.58  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

**Ant. Position: 5G Ant.3\_GAIN PHI**

|   |   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |







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|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|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| 0 | 100    | 120    | 140    | 160    | 180    | 200    | 220    | 240    | 260    | 280    | 300    | 320    | 340    | 360    | 380    | 400    | 420    | 440    | 460    | 480    | 500    | 520    | 540    | 560    | 580    | 600    | 620    | 640    | 660    | 680    | 700    | 720    | 740    | 760    | 780    | 800    | 820    | 840    | 860    | 880    | 900    | 920    | 940    | 960    | 980    | 1000   |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |      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