FCC Composite Gain Test Report

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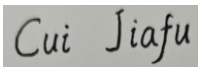
Basic Information

EUT Description:	BE6500 Dual-Band Wi-Fi 7 Gaming Router		
Brand Name:	tp-link		
Model Name:	GE400		
Tested By:	Cui Jiafu 	Date:	2025/01/14

CONTENTS

1 Operation Mode and Antenna Information

1.1 EUT Operation Mode

The device is the Dual-band wireless router of 6 internal antennas, 2 were 2.4G antennas,4 were 5G antennas.

1.2 Antenna Information

The Antennas are internal , 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	ipex	2.4G
Ant2	Dipole	ipex	5G
Ant3	Dipole	ipex	2.4G
Ant4	Dipole	ipex	5G
Ant5	Dipole	ipex	5G
Ant6	Dipole	ipex	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	2025/04/15
Vector 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 θ direction, and the EUT rotated in the φ 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.

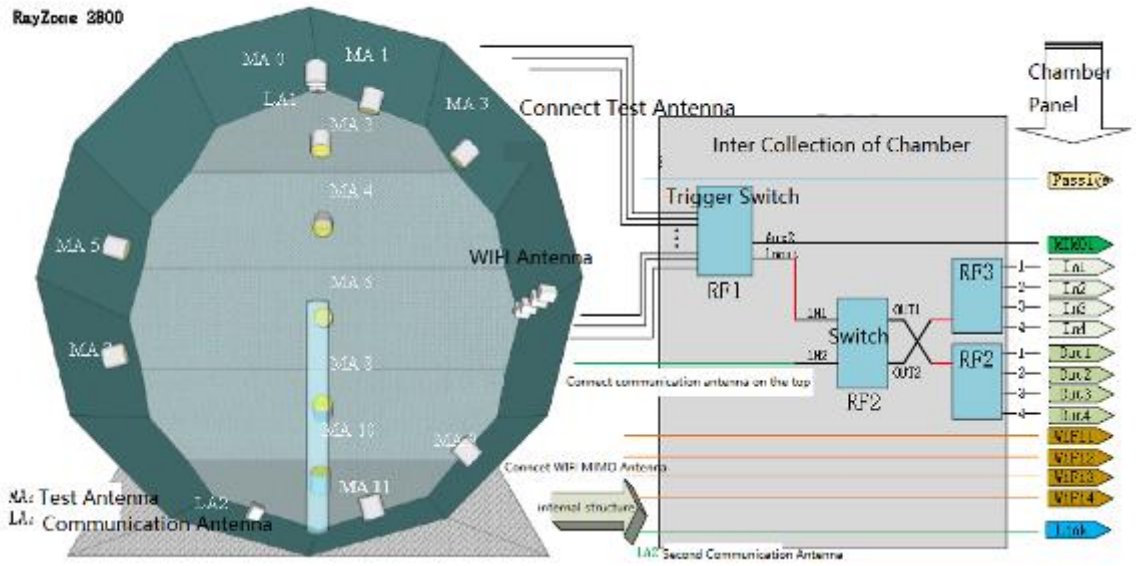


Figure 3-1 Schematic diagram of antenna near-field measurement system

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 theirs operating frequency was 600MHz~8.5GHz.

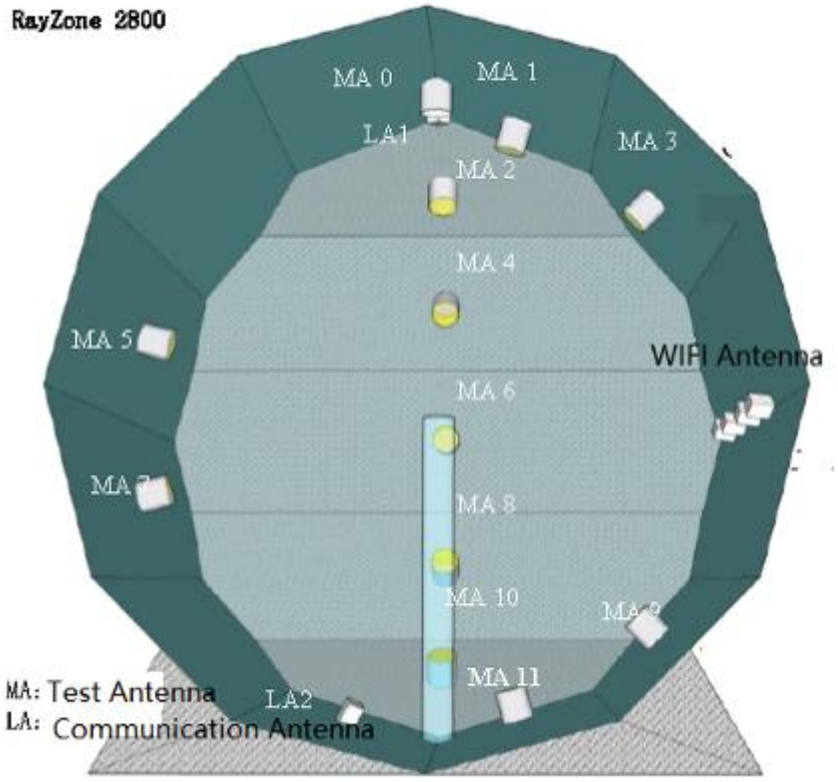


Figure 3-2 Antenna anechoic chamber for near-field measurement

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

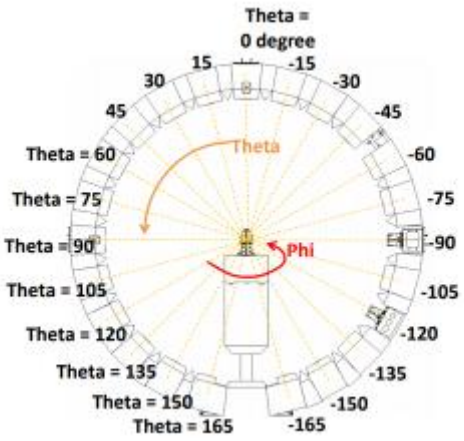


Figure 3-3 System diagram

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.

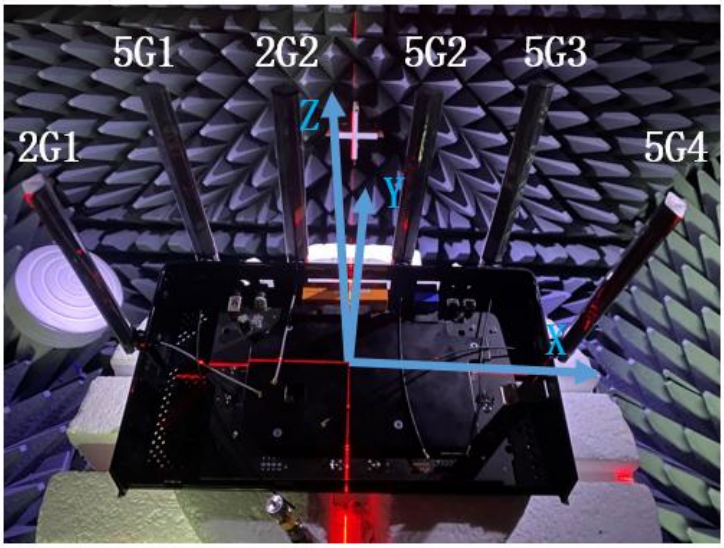


Figure 3-4 Antennas measurement diagram

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 and 6G antennas was 50MHz.

3.3 Test Method

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

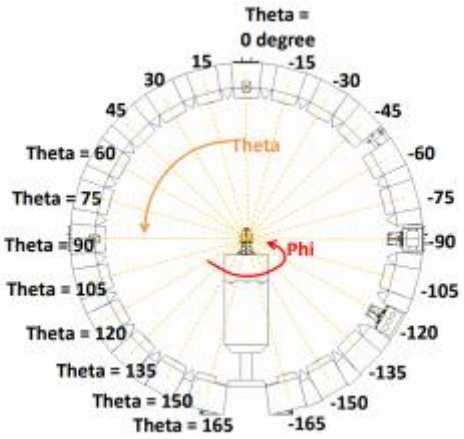


Figure 3-5 Test angle

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

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

Where

Nss = the number of independent spatial streams of data; NSS =1.

Nant = the total number of antennas: NANT =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 .

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

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

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

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.

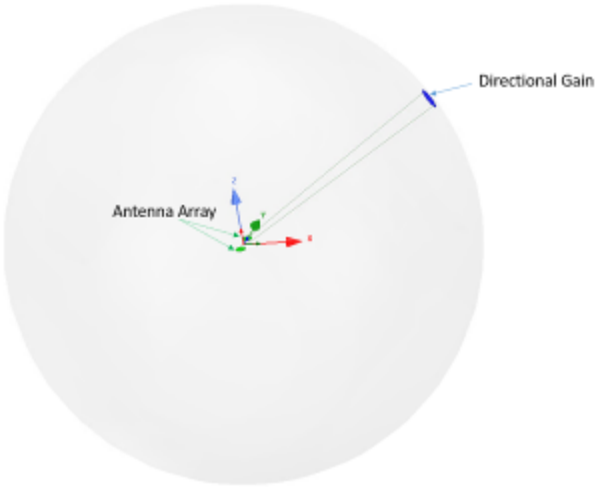


Figure 3-6 Directional Gain Calculation Sketch Map

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
Ant1	Ant1	Ant2
Ant2	Ant3	Ant4
Ant3		Ant5
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)	5.3
Ant2(dBi)	3.88
Polarization	Theta
Φ (°)	120
θ (°)	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^(5.3/20)
Ant2[10^(G/20)]	10^(3.88/20)
Ant1[10^(G/20)] value	1.841
Ant2[10^(G/20)] value	1.563
Sum of Ants Value(Antmax)	3.404
DG[10*Log(Antmax^2/Nant)] (dBi)	7.63

4.2.3 DG_2SS Max Value Position

Table 4-4 DG_2SS Max Value Position

Frequency(GHz)	2.45
Ant1(dBi)	5.3
Ant2(dBi)	3.88
Polarization	Theta
Φ (°)	120
θ (°)	90

4.2.4 DG_2SS Max Value Position Calculation

Table 4-5 DG_2SS Max Value Position Calculation

Frequency(GHz)	2.45
Ant1[10^(G/10)]	10^(5.3/10)
Ant2[10^(G/10)]	10^(3.88/10)
Ant1[10^(G/10)] value	3.388
Ant2[10^(G/10)] value	2.443
Sum of Ants Value(Antmax)	5.832
DG[10*Log(Antmax/Nant)] (dBi)	4.648

4.3 5G

4.3.1 DG_1SS Max Value Position

Table 4-6 DG_1SS Max Value Position

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1(dBi)	5.28	5.95	5.85	4.68
Ant2(dBi)	6.05	6.36	6.6	7.52
Ant3(dBi)	5.89	7.87	7.69	8.28
Ant4(dBi)	6.32	6.67	4.95	1.51
Polarization	Theta	Theta	Theta	Theta
Φ (°)	60	60	75	75
θ (°)	90	90	90	90

4.3.2 DG_1SS Max Value Position Calculation

Table 4-7 DG_1SS Max Value Position Calculation

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1[10^(G/20)]	10^(5.28/20)	10^(5.95/20)	10^(5.85/20)	10^(4.68/20)
Ant2[10^(G/20)]	10^(6.05/20)	10^(6.36/20)	10^(6.6/20)	10^(7.52/20)

Ant3[10^(G/20)]	10^(5.89/20)	10^(7.87/20)	10^(7.69/20)	10^(8.28/20)
Ant4[10^(G/20)]	10^(6.32/20)	10^(6.67/20)	10^(4.95/20)	10^(1.51/20)
Ant1[10^(G/20)] value	1.84	1.98	1.96	1.71
Ant2[10^(G/20)] value	2.01	2.08	2.14	2.38
Ant3[10^(G/20)] value	1.97	2.47	2.42	2.59
Ant4[10^(G/20)] value	2.07	2.16	1.77	1.19
Sum of Ants Value(Antmax)	7.88	8.69	8.29	7.87
DG[10*Log(Antmax^2/Nant)] (dBi)	11.91	12.76	12.35	11.90

4.3.3 DG_3SS Max Value Position

Table 4-8 DG_3SS Max Value Position

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1(dBi)	5.28	5.95	5.85	4.68
Ant2(dBi)	6.05	6.36	6.6	7.52
Ant3(dBi)	5.89	7.87	7.69	8.28
Ant4(dBi)	6.32	6.67	4.95	1.51
Polarization	Theta	Theta	Theta	Theta
Φ (°)	60	60	75	75
θ (°)	90	90	90	90

4.3.4 DG_3SS Max Value Position Calculation

Table 4-9 DG_3SS Max Value Position Calculation

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1[10^(G/10)]	10^(5.28/10)	10^(5.95/10)	10^(5.85/10)	10^(4.68/10)
Ant2[10^(G/10)]	10^(6.05/10)	10^(6.36/10)	10^(6.6/10)	10^(7.52/10)
Ant3[10^(G/10)]	10^(5.89/10)	10^(7.87/10)	10^(7.69/10)	10^(8.28/10)
Ant4[10^(G/10)]	10^(6.32/10)	10^(6.67/10)	10^(4.95/10)	10^(1.51/10)
Ant1[10^(G/10)] value	3.37	3.94	3.85	2.94
Ant2[10^(G/10)] value	4.03	4.33	4.57	5.65
Ant3[10^(G/10)] value	3.88	6.12	5.87	6.73
Ant4[10^(G/10)] value	4.29	4.65	3.13	1.42
Sum of Ants Value(Antmax)	15.57	19.03	17.42	16.73
DG[10*Log(Antmax/Nant)] (dBi)	5.90	6.77	6.39	6.22

5 Test and Calculate Result

5.1 Antenna Test Result

Table 5-1 Antenna Test Result

Frequency(GHz)	2.45	5.20	5.30	5.60	5.80
Ant1 MaxGain(dBi)	5.67				
Ant2 MaxGain(dBi)		6.54	7.2	8.09	6.64
Ant3 MaxGain(dBi)	6.33				
Ant4 MaxGain(dBi)		7.22	7.48	8.36	7.67
Ant5 MaxGain(dBi)		6.18	7.87	7.69	8.28
Ant6 MaxGain(dBi)		6.88	7.58	8.6	8.42
Ant1 Polarization/ Φ (°) / θ (°)	Theta/ 240/90				
Ant2 Polarization/ Φ (°) / θ (°)		Theta/ 105/90	Theta/ 105/90	Theta/ 105/90	Theta/ 150/90
Ant3 Polarization/ Φ (°) / θ (°)	Theta/ 75/90				
Ant4 Polarization/ Φ (°) / θ (°)		Theta/ 90/90	Theta/ 120/90	Theta/ 60/90	Theta/ 60/90
Ant5 Polarization/ Φ (°) / θ (°)		Theta/ 75/105	Theta/ 60/90	Theta/ 75/90	Theta/ 75/90
Ant6 Polarization/ Φ (°) / θ (°)		Theta/ 30/90	Theta/ 15/90	Theta/ 0/90	Theta/ 0/90
Max Gain(dBi)	6.33	7.22	7.87	8.6	8.28

5.2 Directional Gain Calculate Result

Table 5-2Test & Calculate Result

Frequency Band(MHz)	Max Antenna Gain	Max Composite Gain	NSS	Polarization/Φ (°) / θ (°)
2400-2483.5(2450)	6.33	7.63	1	Theta/120/90
5150-5250(5200)	7.22	11.91	1	Theta/330/90
5250-5350(5300)	7.87	12.76	1	Theta/345/75
5470-5725(5600)	8.6	12.35	1	Theta/345/90
5725-5850(5800)	8.28	11.90	1	Theta/345/90

Table 5-3Test & Calculate Result

Frequency Band(MHz)	Max Antenna Gain	Max Directional Gain	NSS	Polarization/Φ (°) / θ (°)
2400-2483.5(2450)	6.33	4.65	2	Theta/120/90
5150-5250(5200)	7.22	5.9	4	Theta/60/90

5250-5350(5300)	7.87	6.77	4	Theta/60/90
5470-5725(5600)	8.6	6.39	4	Theta/75/90
5725-5850(5800)	8.28	6.22	4	Theta/75/90

6 Test Pattern

6.1 Antenna Pattern

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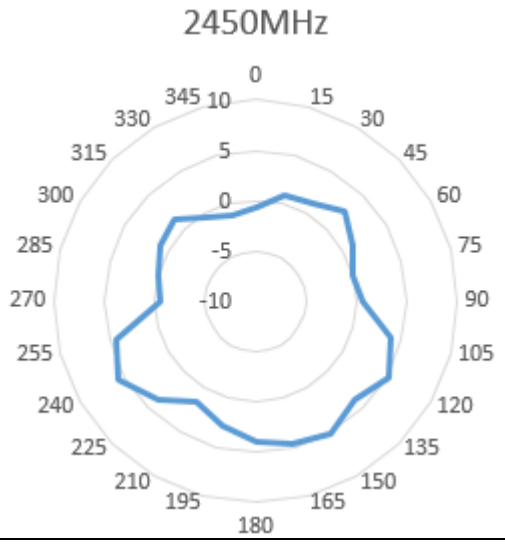
<tr><td colspan="2"> 
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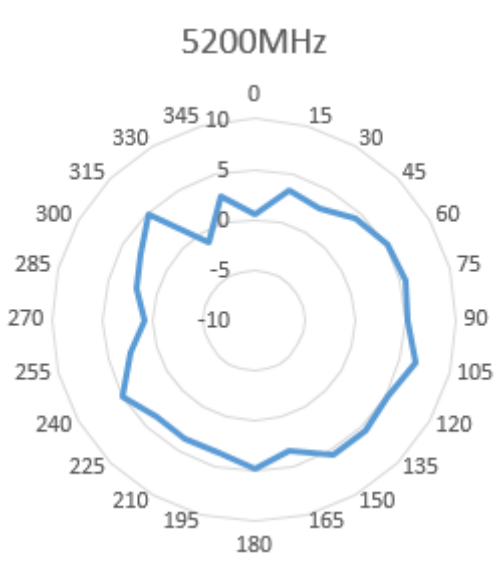
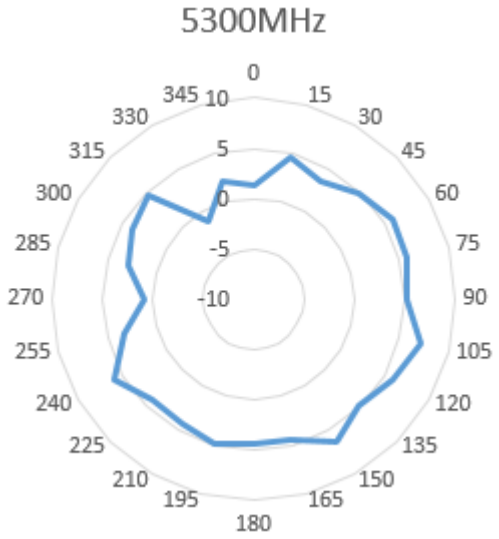
<tr><td> 
</td><td> 
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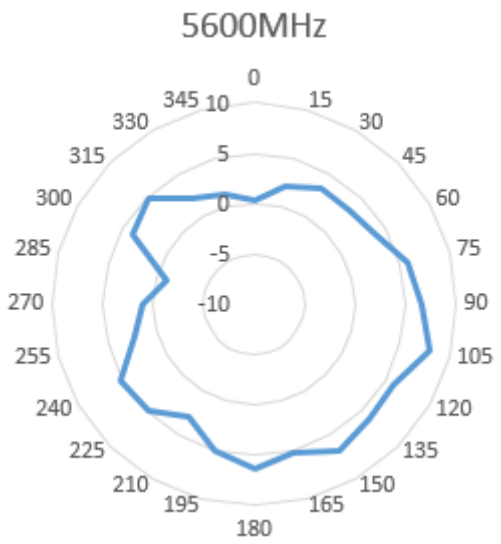

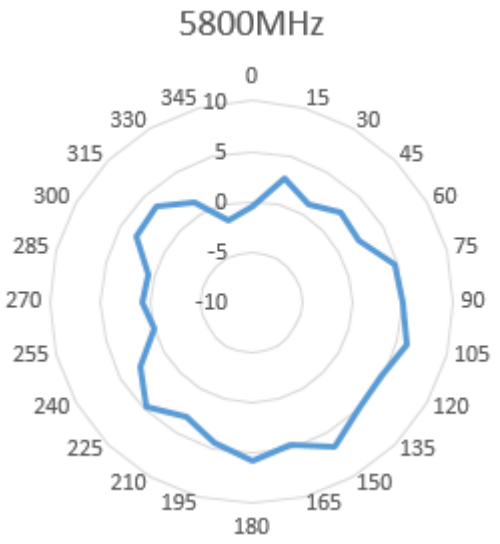

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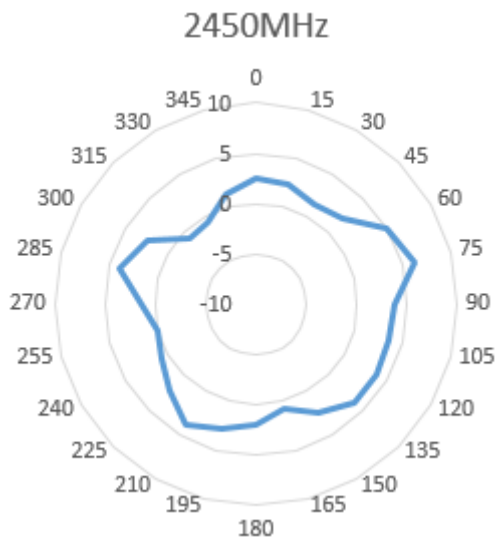

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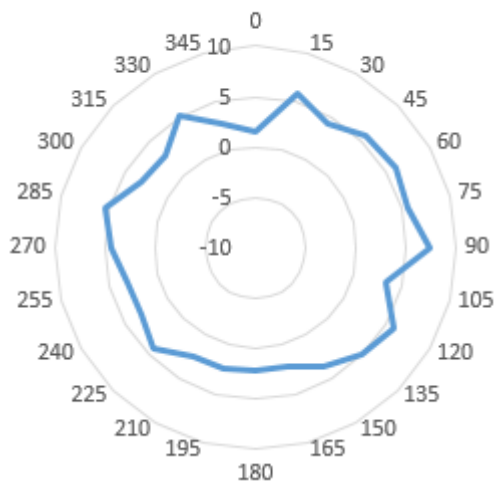

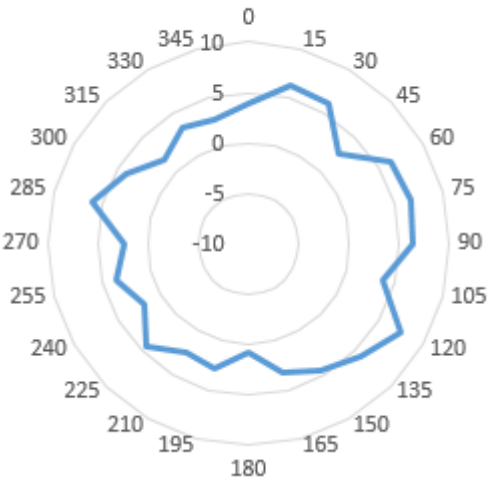

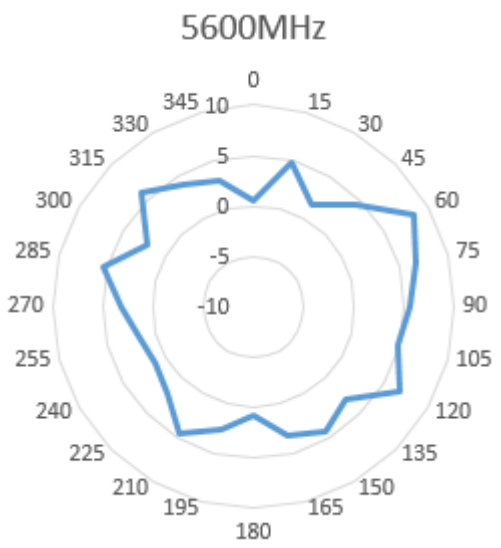

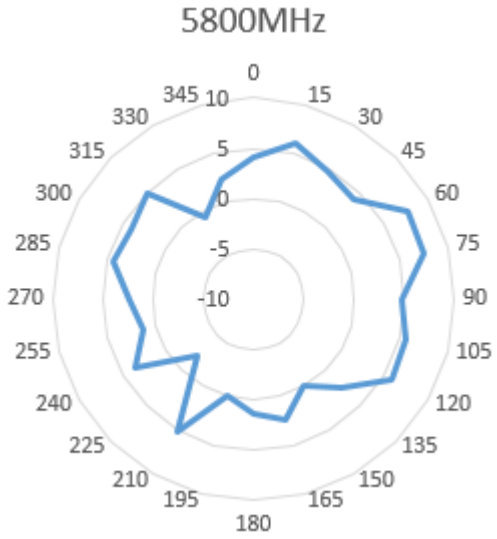

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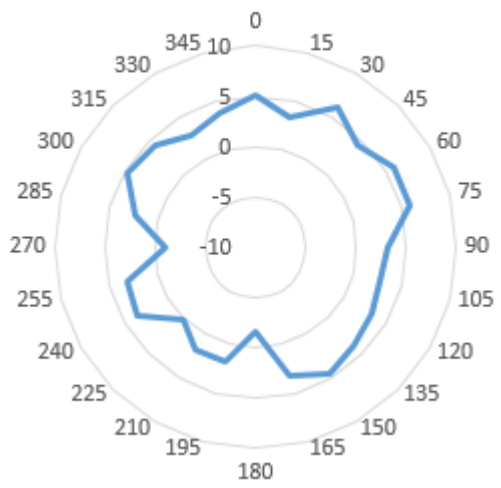

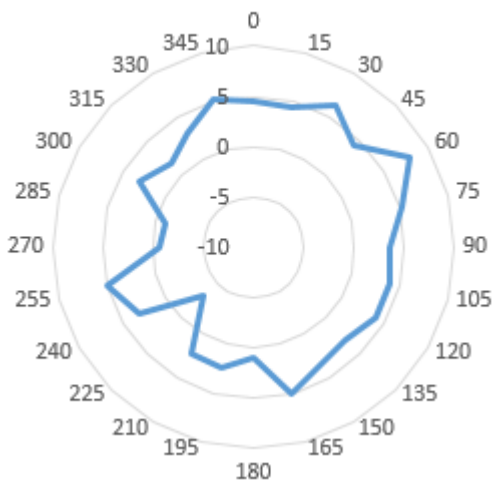

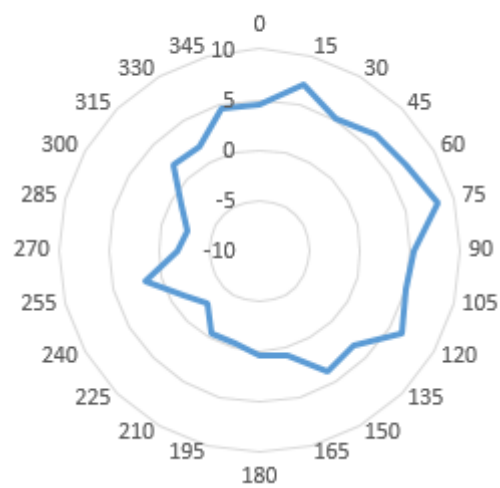

Ant6

7 Test Pattern

Ant1													
Freq	2450												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-16.58	-16.02	-17.94	-16.89	-5.1	-0.86	-0.58	-1.65	-5.64	-15.36	-10.63	-18.1	-18.1
15	-18.89	-16.65	-19.72	-16.12	-6.18	-1.53	0.82	0.51	-2.06	-6.12	-9.53	-14.69	-18.1
30	-18.06	-17.67	-17.21	-16.09	-4.93	0.22	1.2	2.1	0.03	-2.88	-10.76	-14.82	-18.1
45	-15.94	-18.67	-14.87	-17.66	-8.08	0.67	2.61	1.55	-2.19	-5.07	-16.52	-14.95	-18.1
60	-16.05	-17.16	-15.27	-16.02	-11.67	-3.4	1.06	1.83	-3	-9.53	-16.65	-12.65	-18.1
75	-17.86	-14.28	-16.26	-11.93	-19.15	-4.93	-0.08	0.52	-2.47	-5.16	-12	-11.61	-18.1
90	-18.41	-12.7	-11.59	-10.4	-7.87	-2.01	0.57	-0.55	-2.9	-4.87	-10.1	-12.32	-18.1
105	-18.15	-11.73	-8.45	-10.37	-8.29	1.08	3.9	3.69	-1.09	-5.14	-7.71	-13.73	-18.1

120	-17.64	-10.99	-9.67	-11.25	-4.46	3.02	5.3	5.06	0.55	-2.26	-5.05	-13.01	-18.1
135	-16.89	-10.98	-11.11	-8.83	-6	0.99	3.94	3.63	-2.07	-4.13	-4.99	-11.23	-18.1
150	-16.73	-11.56	-10.51	-9.97	-7.12	1.98	5.08	4.77	-1.49	-6.45	-7.86	-11.07	-18.1
165	-17.08	-12.55	-10.86	-11.84	-5.16	2.23	4.58	3.28	-2.93	-6.15	-12.16	-11.47	-18.1
180	-17.53	-12.58	-12.16	-10.26	-3.61	2.8	3.95	0.95	-5.26	-5.41	-14.66	-9.45	-18.1
195	-17.64	-13.51	-13.31	-10.82	-2.75	2.67	2.86	-0.24	-5.5	-5.69	-18.2	-8.14	-18.1
210	-17.31	-14.98	-12.23	-18.59	-6.86	0.6	1.56	-0.19	-4.27	-8.55	-14.25	-7.81	-18.1
225	-16.62	-16.29	-10.2	-8.83	-3.19	1.95	3.74	2.4	-2.09	-7.04	-9.67	-8.17	-18.1
240	-16.45	-16.85	-9.95	-4.92	0.15	5	5.67	3.84	-0.73	-4.78	-8.64	-8.39	-18.1
255	-15.3	-15.9	-10.35	-4.5	-0.63	3.93	4.41	2.08	-3.57	-6.37	-9	-8.5	-18.1
270	-15.98	-15.51	-10.04	-5.66	-3.01	1.18	-0.45	-2.98	-9.44	-7.84	-7.89	-8.1	-18.1
285	-18.28	-15.08	-11.27	-10.38	-4.35	-1.31	0.05	-3.41	-14.09	-10.37	-7.05	-8.09	-18.1
300	-17.69	-15.26	-15.91	-12.99	-4.26	-0.15	0.98	-1.79	-9.91	-13.12	-7.92	-9.16	-18.1
315	-15.72	-16	-18.64	-14.47	-4.89	1.07	1.37	-1.56	-6.45	-16.2	-11.02	-10.88	-18.1
330	-15.8	-17.11	-15.81	-11.11	-2.17	0.96	-0.42	-1.62	-4.12	-11.74	-14.16	-13.38	-18.1
345	-15.8	-16.68	-15.74	-12.23	-2.48	-0.19	-1.21	-1.74	-4.49	-13.87	-12.73	-16.23	-18.1

Ant2													
Freq	**2450**												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-12.85	-7.08	-8.52	-11.02	-8.59	0.48	2.54	-0.47	-7.24	-11.97	-8.95	-8.57	-17.96
15	-13.54	-6.69	-7.05	-8.04	-5.95	-1.69	2.25	2.14	-2.87	-6.23	-7.02	-10.36	-17.96
30	-14.15	-6.85	-5.87	-7	-3.06	0.13	1.37	2.42	-0.13	-1.95	-4.39	-10.93	-17.96
45	-13.86	-7.64	-5.07	-5.73	-3.44	1.71	2.07	-0.06	-2.24	-1.77	-3.75	-10.38	-17.96
60	-13.13	-8.48	-4.99	-4.63	-1.9	3.62	5.02	2.39	-7	-6.24	-5.07	-9.77	-17.96
75	-12.7	-9.05	-6.17	-6.14	-3.44	3.72	6.33	4.56	-2.89	-16.86	-6.45	-8.8	-17.96
90	-12.85	-9.32	-8.25	-11.17	-5.91	0.89	3.8	3.19	-2.82	-10.42	-5.66	-8.13	-17.96
105	-13.41	-9.41	-10.71	-12.26	-3.18	2.06	3.55	2.35	-4.79	-7.93	-4.12	-8.54	-17.96
120	-13.7	-9.99	-12.6	-10.64	-4.05	2	3.88	2.62	-5.07	-8.85	-4.64	-10.07	-17.96
135	-13.55	-11.33	-12.16	-9.26	-5.92	1.47	3.77	2.37	-4.04	-8.78	-7.1	-11.68	-17.96
150	-13.45	-13.25	-11.6	-9.89	-8.07	0.02	2.41	0.27	-3.67	-7.51	-9.05	-13.55	-17.96
165	-13.35	-15.22	-12.47	-9.56	-9.36	-1.76	0.8	-1.05	-4.29	-9.49	-11.83	-14.63	-17.96
180	-12.95	-16.92	-15.25	-10.07	-7.78	-0.2	2	0.39	-5.62	-13.44	-18.31	-10.49	-17.96
195	-12.5	-19.59	-19.11	-14.58	-7.67	0.98	2.76	1.23	-4.45	-10.38	-11.4	-8.56	-17.96
210	-12.37	-20.43	-16.49	-15.59	-5.93	1.4	3.74	1.7	-2.17	-4.4	-9.05	-9.12	-17.96
225	-12.78	-15.95	-11.15	-8.21	-4.89	1.08	2	0.86	-2.8	-5.39	-9.8	-11.28	-17.96
240	-13.53	-12.95	-8.25	-7.43	-7.43	0.09	0.7	-1	-6.04	-11.95	-13.48	-15.15	-17.96
255	-13.71	-11.71	-6.92	-8.92	-6.78	0.22	0.15	-1.37	-6.49	-10.48	-13.42	-17.96	-17.96

270	-12.96	-10.78	-6.28	-7.81	-5.99	-0.76	1.35	-0.96	-3.92	-7.51	-10.42	-13.97	-17.96
285	-12.61	-9.7	-6.26	-7.21	-3.92	2.83	4.04	1.29	-5.16	-12.86	-7.06	-9.59	-17.96
300	-12.7	-8.74	-6.7	-8.88	-3.05	2.3	2.51	0.29	-6.76	-13.81	-4.91	-6.83	-17.96
315	-13.04	-8.22	-7.09	-7.61	-2.67	-0.16	-0.81	-1.51	-4.44	-8.42	-4.68	-5.57	-17.96
330	-13.21	-7.75	-7.71	-7.22	-2.9	0.21	-0.49	-0.06	-2.92	-5.84	-6.03	-5.79	-17.96
345	-13	-7.41	-8.74	-9.34	-5.22	1.17	1.22	0.25	-2.74	-5.63	-7.39	-6.77	-17.96

2450MHz Composite Gain（1SS）													
Freq	2450.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-11.51	-7.44	-9.00	-10.46	-3.66	2.85	4.13	1.97	-3.39	-10.49	-6.74	-9.08	-15.02
15.00	-12.80	-7.30	-8.24	-8.16	-3.05	1.40	4.57	4.37	0.55	-3.16	-5.17	-9.25	-15.02
30.00	-12.88	-7.66	-6.80	-7.40	-0.93	3.19	4.30	5.27	2.96	0.61	-3.99	-9.65	-15.02
45.00	-11.83	-8.50	-5.65	-6.78	-2.44	4.22	5.35	3.79	0.80	-0.25	-4.96	-9.36	-15.02
60.00	-11.46	-8.77	-5.68	-5.57	-2.47	3.81	6.27	5.12	-1.76	-4.72	-6.05	-8.08	-15.02
75.00	-11.89	-8.27	-6.82	-5.55	-5.13	3.44	6.71	5.78	0.33	-6.16	-5.78	-7.08	-15.02
90.00	-12.18	-7.84	-6.75	-7.77	-3.82	2.57	5.34	4.53	0.15	-4.20	-4.59	-6.96	-15.02
105.00	-12.45	-7.48	-6.50	-8.25	-2.35	4.59	6.74	6.06	0.27	-3.41	-2.72	-7.74	-15.02
120.00	-12.44	-7.47	-8.00	-7.93	-1.24	5.54	7.63	6.94	1.20	-1.93	-1.83	-8.41	-15.02
135.00	-12.05	-8.14	-8.61	-6.03	-2.95	4.24	6.87	6.03	0.01	-3.14	-2.97	-8.44	-15.02
150.00	-11.93	-9.35	-8.03	-6.92	-4.57	4.07	6.86	5.82	0.50	-3.95	-5.42	-9.21	-15.02
165.00	-12.01	-10.77	-8.62	-7.62	-4.00	3.47	5.90	4.39	-0.57	-4.65	-8.98	-9.90	-15.02
180.00	-11.93	-11.47	-10.56	-7.15	-2.44	4.44	6.04	3.68	-2.43	-5.52	-13.28	-6.94	-15.02
195.00	-11.68	-13.02	-12.72	-9.49	-1.86	4.88	5.82	3.54	-1.95	-4.71	-11.14	-5.34	-15.02
210.00	-11.48	-14.27	-11.09	-13.95	-3.37	4.02	5.73	3.82	-0.15	-3.22	-8.26	-5.43	-15.02
225.00	-11.48	-13.11	-7.65	-5.50	-0.99	4.54	5.92	4.67	0.57	-3.17	-6.72	-6.58	-15.02
240.00	-11.86	-11.67	-6.05	-3.07	0.17	5.90	6.55	4.76	0.02	-4.63	-7.72	-8.12	-15.02
255.00	-11.46	-10.54	-5.46	-3.42	-0.16	5.28	5.55	3.54	-1.90	-5.17	-7.92	-8.99	-15.02
270.00	-11.33	-9.82	-4.95	-3.66	-1.36	3.27	3.51	1.10	-3.24	-4.66	-6.05	-7.54	-15.02
285.00	-11.98	-8.97	-5.40	-5.64	-1.12	4.01	5.28	2.26	-5.51	-8.52	-4.04	-5.80	-15.02
300.00	-11.83	-8.39	-7.13	-7.68	-0.62	4.17	4.79	2.32	-5.18	-10.45	-3.27	-4.91	-15.02
315.00	-11.27	-8.26	-8.06	-7.37	-0.70	3.49	3.36	1.48	-2.38	-8.46	-4.27	-4.82	-15.02
330.00	-11.40	-8.22	-7.84	-5.94	0.48	3.60	2.56	2.21	-0.49	-5.29	-6.17	-5.77	-15.02
345.00	-11.28	-7.85	-8.54	-7.66	-0.73	3.53	3.10	2.32	-0.56	-5.80	-6.65	-7.26	-15.02

2450MHz Composite Gain（2SS）													
Freq	2450												
Phi\Th	**0.00**	**15.00**	**30.00**	**45.00**	**60.00**	**75.00**	**90.00**	**105.00**	**120.00**	**135.00**	**150.00**	**165.00**	**180.00**

eta													
0.00	-14.33	-9.57	-11.06	-13.03	-6.50	-0.14	1.25	-1.02	-6.37	-13.34	-9.71	-11.12	-18.03
15.00	-15.44	-9.28	-9.83	-10.42	-6.06	-1.61	1.59	1.40	-2.45	-6.17	-8.10	-12.01	-18.03
30.00	-15.68	-9.51	-8.57	-9.51	-3.90	0.18	1.29	2.26	-0.05	-2.39	-6.50	-12.45	-18.03
45.00	-14.78	-10.32	-7.65	-8.47	-5.17	1.22	2.35	0.82	-2.21	-3.11	-6.54	-12.09	-18.03
60.00	-14.35	-10.94	-7.61	-7.34	-4.47	1.40	3.48	2.12	-4.55	-7.58	-7.79	-10.98	-18.03
75.00	-14.55	-10.92	-8.77	-8.13	-6.34	1.27	4.21	2.99	-2.67	-7.89	-8.39	-9.98	-18.03
90.00	-14.80	-10.69	-9.61	-10.77	-6.78	-0.32	2.48	1.71	-2.86	-6.81	-7.34	-9.74	-18.03
105.00	-15.16	-10.42	-9.43	-11.21	-5.02	1.60	3.73	3.07	-2.56	-6.31	-5.55	-10.40	-18.03
120.00	-15.24	-10.46	-10.89	-10.93	-4.25	2.54	4.65	4.01	-1.41	-4.41	-4.84	-11.30	-18.03
135.00	-14.91	-11.15	-11.60	-9.04	-5.96	1.24	3.86	3.05	-2.94	-5.86	-5.92	-11.45	-18.03
150.00	-14.79	-12.32	-11.02	-9.93	-7.57	1.11	3.95	3.08	-2.44	-6.95	-8.41	-12.14	-18.03
165.00	-14.83	-13.68	-11.59	-10.55	-6.77	0.68	3.09	1.63	-3.56	-7.51	-11.99	-12.77	-18.03
180.00	-14.66	-14.23	-13.44	-10.16	-5.21	1.55	3.08	0.68	-5.44	-7.79	-16.11	-9.94	-18.03
195.00	-14.35	-15.56	-15.31	-12.31	-4.55	1.91	2.81	0.56	-4.94	-7.43	-13.59	-8.34	-18.03
210.00	-14.17	-16.90	-13.86	-16.84	-6.37	1.02	2.79	0.86	-3.09	-6.00	-10.91	-8.42	-18.03
225.00	-14.29	-16.12	-10.65	-8.51	-3.96	1.54	2.96	1.70	-2.43	-6.14	-9.73	-9.45	-18.03
240.00	-14.75	-14.48	-9.02	-6.00	-2.16	3.20	3.86	2.06	-2.62	-7.03	-10.42	-10.57	-18.03
255.00	-14.43	-13.32	-8.30	-6.17	-2.70	2.46	2.78	0.69	-4.79	-7.96	-10.67	-11.04	-18.03
270.00	-14.21	-12.53	-7.77	-6.60	-4.25	0.32	0.54	-1.85	-5.86	-7.67	-8.97	-10.11	-18.03
285.00	-14.58	-11.61	-8.08	-8.51	-4.13	1.24	2.49	-0.45	-7.65	-11.44	-7.05	-8.78	-18.03
300.00	-14.51	-10.88	-9.22	-10.47	-3.61	1.25	1.81	-0.63	-8.06	-13.45	-6.16	-7.84	-18.03
315.00	-14.18	-10.56	-9.81	-9.81	-3.64	0.50	0.42	-1.53	-5.33	-10.76	-6.78	-7.46	-18.03
330.00	-14.31	-10.28	-10.09	-8.74	-2.52	0.60	-0.45	-0.77	-3.48	-7.86	-8.42	-8.10	-18.03
345.00	-14.18	-9.93	-10.96	-10.55	-3.64	0.54	0.17	-0.63	-3.53	-8.03	-9.29	-9.31	-18.03

Ant2													
Freq	5200												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-14.43	-18.48	-12.35	-10.21	-12.04	-0.56	0.47	-4.54	-13.61	-10.6	-10.82	-12.22	-19.1
15	-14.8	-15.91	-17.71	-9.51	-8.33	0.51	3.45	-2.56	-13.25	-5.35	-9.59	-8.85	-19.1
30	-14.38	-14.96	-13.03	-10.59	-11.51	-2.84	2.88	-0.37	-10.76	-9.37	-13.53	-11.47	-19.1
45	-14.97	-15.83	-20.02	-5.57	-7.69	-2.46	4.24	0.51	-13.88	-7.05	-10.63	-19.1	-19.1
60	-17.21	-23.35	-9.48	-6.18	-8.46	0.21	5.28	3.45	-8.68	-9.53	-12.76	-15.89	-19.1
75	-15.84	-18.68	-9.95	-5.97	-10.71	-0.02	5.56	4.27	-4.69	-9.68	-17.66	-13.89	-19.1
90	-15.89	-14.86	-12.57	-9.14	-6.45	-2.47	5.31	4	-10.89	-5.75	-20.02	-15.32	-19.1
105	-16.05	-13.99	-13.48	-7.92	-5.69	-1.17	6.54	2.95	-13.66	-7.29	-17.72	-14.92	-19.1

120	-14.78	-14.55	-16.68	-9.27	-5.78	-4.48	5.33	3.77	-18.25	-16.56	-14.32	-14.02	-19.1
135	-15.26	-15.22	-16.32	-6.77	-4	-10.39	5.59	3.44	-5.48	-9.45	-9.01	-15.77	-19.1
150	-16.8	-15.28	-20.49	-10.87	-5.2	-2.78	5.53	3.05	-17.02	-12.7	-6.48	-17.21	-19.1
165	-15.59	-14.92	-13.09	-13.33	-8.6	-2.8	3.4	0.79	-8.2	-9.69	-12.77	-12.94	-19.1
180	-15.59	-15.76	-14.86	-9.18	-3.58	-1.52	4.71	3.29	-8.55	-15.51	-11.35	-10.81	-19.1
195	-15.37	-17.41	-16.2	-5.97	-7.43	-3.94	3.72	1.26	-14.04	-11.36	-13.12	-12.9	-19.1
210	-14.97	-19.26	-18.72	-10.04	-7.26	-4.41	3.59	1.69	-18.99	-8.96	-9.28	-12.42	-19.1
225	-15.04	-16.5	-10.44	-4.17	-12.71	-4.54	3.66	2.3	-11.6	-18.86	-9.07	-12.93	-19.1
240	-14.31	-13.01	-7.74	-13.21	-7.6	-0.4	5.01	0.75	-9.45	-4.61	-11.33	-18.16	-19.1
255	-14.55	-11.18	-13.05	-4.87	-6.45	1.54	2.6	-0.34	-7.35	-17.86	-8.64	-15.66	-19.1
270	-14.21	-10.55	-14.9	-10.06	-5.85	-1.59	0.86	-3.33	-23.36	-9.15	-9.9	-10.77	-19.1
285	-14.28	-11.96	-8.65	-7.14	-7.69	-2.85	1.97	-2.97	-15.22	-6.25	-12.9	-9.69	-19.1
300	-14.55	-14.99	-14.26	-5.35	-4.53	0.22	3.07	-2.82	-8.47	-9.99	-12.22	-10.09	-19.1
315	-14.76	-19.91	-19.91	-4.68	-9.18	0.31	4.8	2.87	-7.82	-6.79	-14.05	-10.34	-19.1
330	-14.54	-28.07	-15.33	-6.86	-13.84	-0.77	-1.12	-1.4	-9.46	-2.05	-9.48	-9.55	-19.1
345	-14.74	-25.16	-12.15	-9.4	-15.24	-2.63	2.76	0.34	-7.33	-7.13	-9.77	-11.54	-19.1
Ant4													
Freq	5200												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-11.92	-10.01	-11.62	-7.44	-3.17	-2.92	1.54	0.2	-5.64	-10.47	-12.62	-14.38	-21
15	-11.86	-9.69	-14.42	-9.88	-2.25	-2.08	5.79	2.24	-8.89	-9.15	-12.79	-17.99	-21
30	-12.35	-10.64	-10.37	-9.78	-6.81	-6.26	4.14	2.64	-11.53	-10.8	-14.96	-18.04	-21
45	-12.56	-12.76	-6.97	-7.77	-5.86	-4.48	5.61	5.12	-8.52	-13.34	-15.26	-16.05	-21
60	-12.71	-13.43	-4.58	-7.74	-10.14	-1.81	6.05	4.37	-3.36	-10.46	-21.56	-16.95	-21
75	-13.43	-12.42	-3.86	-4.46	-2.72	-5.56	5.58	3.52	-6.86	-12.35	-14.84	-15.68	-21
90	-14.31	-13.17	-6.13	-7.61	-4.37	-0.08	7.22	4.12	-12.04	-7.55	-9.15	-11.69	-21
105	-13.38	-14.76	-10.5	-7.72	-6.84	-9.42	3.46	3	-4.4	-10.83	-9.43	-10.65	-21
120	-12.57	-11.46	-16.44	-8.98	-6.62	-2.41	5.88	3.57	-4.02	-13.36	-14.26	-12.08	-21
135	-12.35	-9.12	-17.5	-2.3	-4.35	-0.43	4.88	0.08	-11.97	-17.11	-14.8	-15.89	-21
150	-12.55	-8.61	-12.38	-4.29	-7.8	-0.58	3.69	-0.29	-15.91	-14.77	-17.67	-17	-21
165	-12.4	-9.51	-7.11	-2.54	-7.58	-4.38	2.17	-1.77	-10.3	-7.38	-13.46	-17.36	-21
180	-13.28	-12.12	-6.88	-4.08	-24.4	0.36	2.23	-1.04	-10.4	-9.86	-15.54	-18.11	-21
195	-12.97	-15.78	-5.31	-6.15	-6.88	1.01	2.34	0.23	-14.87	-13.67	-11.82	-14.53	-21
210	-12.58	-15.48	-6.14	-6.51	-7.79	-0.73	2.52	-0.29	-13.9	-16.37	-12.21	-15.32	-21
225	-12.09	-12.69	-10	-6.41	-6.36	3.46	4.24	-3.34	-5.91	-13.49	-16.72	-14.49	-21
240	-11.9	-10.06	-13.28	-9.83	-5.62	-0.06	3.05	-2.48	-4.8	-15.99	-18.11	-19.63	-21

255	-11.17	-8.72	-9.04	-8.54	-7.96	2.63	3.09	-0.19	-6.21	-13.4	-12.73	-16.62	-21
270	-11.3	-8.74	-7.67	-10.84	-6.33	1.24	4.25	-2.84	-17.78	-6.83	-14.86	-15.39	-21
285	-11.57	-9.49	-5.99	-3.73	-9.26	1.94	5.48	-0.13	-6.65	-6.71	-11.43	-18.74	-21
300	-12.36	-9.65	-6.77	-1.48	-9.98	-2.41	3.05	1.32	-2.14	-11.83	-8.2	-21	-21
315	-12.29	-9.16	-10.27	-3.08	-6.01	0.05	2.79	-0.4	-7.97	-7.57	-12.56	-16.66	-21
330	-12.04	-9.77	-15.03	-4.71	-6.82	-2.39	5.07	3.65	-5.97	-15.44	-16.68	-11.61	-21
345	-11.92	-10.28	-12.1	-6.9	-15.21	-5.45	2.78	-0.67	-9.71	-11.56	-10.04	-10.83	-21
Ant5													
Freq	5200												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-16.32	-11.37	-11.43	-3.14	-5.29	-2.84	5.06	3.28	-14.04	-9.67	-23.4	-23.53	-26.99
15	-15.27	-10.62	-18.58	-5.26	-4.84	-5.42	3.27	1.91	-5.85	-12.07	-13.42	-16.61	-26.99
30	-14.35	-10.21	-15.49	-3.3	-4.09	-4.8	6.14	4.15	-10.43	-9.43	-13.87	-15.23	-26.99
45	-13.98	-9.96	-10.54	-4.82	-4.42	-9.61	4.3	4.21	-5.96	-16.07	-16.39	-16.13	-26.99
60	-13.26	-10.38	-5.12	-12.39	-4.22	-8.38	5.89	5.41	-2.58	-14.48	-13.07	-15.66	-26.99
75	-13.33	-10.48	-4.93	-5.22	-4.94	-14.32	5.85	6.18	-2.18	-11.41	-12.5	-14.09	-26.99
90	-13.26	-10.56	-12.17	-4.4	-3.22	-16.17	3.23	5.19	-4.36	-14.04	-9.66	-13.55	-26.99
105	-13.64	-11.88	-12.83	-5.56	-2.47	-12.92	2.82	4.55	-2.9	-11.06	-10.58	-11.03	-26.99
120	-13.55	-15.2	-10.01	-4.6	-4.86	-7.77	3.26	4.33	-4.91	-15.28	-20.7	-10.84	-26.99
135	-13.79	-16.4	-12.48	-10.09	-11.13	-6.53	3.9	4.69	-3.29	-10.43	-12.4	-14.04	-26.99
150	-13.25	-12.72	-14.58	-8.32	-9.91	-0.21	4.56	3.04	-7.47	-14.17	-11.56	-20.56	-26.99
165	-12.86	-11.08	-15.95	-2.13	-8.3	-0.86	3.16	-0.23	-11.58	-13.35	-13.57	-22.25	-26.99
180	-12.97	-11.6	-8.03	-3.82	-14.97	-0.81	-1.71	-2.51	-13.05	-11.09	-17.28	-20.55	-26.99
195	-13.52	-13.24	-7.95	-9.16	-9.16	1.49	1.68	-2.29	-10.69	-12.41	-20.69	-18.71	-26.99
210	-14.84	-13.94	-8.77	-10.49	-8.31	3.36	1.77	-4.99	-13.31	-12.41	-18.75	-17.3	-26.99
225	-16.27	-13.37	-7	-10.2	-5.48	-0.2	0.1	-2.05	-7.72	-12.37	-18.05	-20.94	-26.99
240	-16.42	-11.97	-4.39	-8.94	-3.89	2.34	3.67	-1.65	-9.87	-11.92	-18.31	-26.99	-26.99
255	-16.29	-9.4	-3.91	-9.24	-3.16	4.28	3.14	-2.5	-9.27	-17.26	-18.24	-23.79	-26.99
270	-15.76	-7.38	-6.52	-9.51	-4.67	3.31	-1.09	-5.94	-15.24	-21.37	-14.68	-18.52	-26.99
285	-15.1	-6.95	-6.19	-4.78	-5.62	1.6	2.27	-1.47	-7.26	-23.14	-10.3	-16.45	-26.99
300	-15.96	-8.59	-7.12	-11.28	-4.65	1.8	4.67	-0.35	-9.88	-16.07	-14.75	-16.08	-26.99
315	-16.62	-11.35	-12.93	-4.02	-9.52	1.67	4.2	-1.86	-10.96	-23.68	-13.15	-14.81	-26.99
330	-16.43	-13.35	-16.25	-7.83	-9.43	2.05	2.85	-2.48	-18.16	-16.06	-12.35	-15.36	-26.99
345	-17.39	-12.18	-12.34	-7.57	-10.29	-1.1	3.76	0.07	-14.72	-11.31	-16.38	-19.93	-26.99
Ant6													

Freq	5200												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-12.3	-14.49	-11.39	-8.71	-3.73	-3.59	6.63	2.48	-7.83	-12.88	-11.26	-18.76	-23.42
15	-12.19	-13.72	-12.26	-5.81	-4.48	-3.31	6.47	2.84	-12.88	-13.14	-19.92	-16.38	-23.42
30	-12.27	-13.83	-18.81	-5.7	-5.44	-1.77	6.88	2.96	-9.55	-9.33	-15.43	-13.36	-23.42
45	-12.4	-13.66	-11.72	-4.54	-4.94	-0.38	6.46	1.26	-11.87	-11.31	-14.53	-12.17	-23.42
60	-12.12	-12.93	-9.95	-3.3	-10.96	3.34	6.32	0.94	-15.22	-12.79	-11.6	-15.35	-23.42
75	-12.77	-16.21	-10.95	-6.28	-10.97	0.48	4.67	0.98	-12.71	-11.55	-12.35	-18.73	-23.42
90	-12.18	-21.89	-13.67	-9.96	-5.9	0.02	2.47	-2.1	-10.75	-15.2	-20.87	-13.69	-23.42
105	-12.06	-11.71	-9.11	-6.8	-8.82	0.38	3.48	-1.52	-14.82	-13.91	-12.35	-12.18	-23.42
120	-11.76	-9.53	-10.23	-12.66	-3.72	-1.34	3.49	0.96	-12.25	-13.57	-18.23	-12.53	-23.42
135	-11.62	-10.48	-14.03	-10.11	-6.44	0.32	4.19	-0.45	-8.87	-20.5	-15.46	-14.75	-23.42
150	-11.57	-11.26	-8.34	-6.45	-7.95	1.53	3.01	-0.53	-15.99	-7.57	-14.48	-17.9	-23.42
165	-12.08	-11.12	-6.72	-5.23	-7.36	2.27	1.73	-0.4	-4.85	-13.28	-16.66	-18.13	-23.42
180	-12.07	-11.36	-8.7	-4.6	-8.47	2.03	2.31	-2.66	-4.26	-10.99	-19.1	-19.22	-23.42
195	-12.7	-10.85	-14.23	-2.2	-7.26	0.45	2.66	-5.16	-7.47	-10.39	-18.28	-21.09	-23.42
210	-12.93	-10.08	-14.07	-4.21	-6.45	0.3	3.2	0.03	-8.58	-12.51	-18.47	-23.42	-23.42
225	-13.14	-9.63	-7.85	-6.44	-10.15	-0.77	3.78	0.1	-8.41	-14.15	-13.73	-15.17	-23.42
240	-13.34	-9.47	-4.14	-10.07	-6.22	0.62	6.57	4.57	-4	-13.29	-16.04	-12.04	-23.42
255	-12.49	-10.37	-4.78	-3.19	-9.9	-4.87	2.72	1.81	-6.76	-19.12	-19.21	-13.17	-23.42
270	-12.19	-11.64	-6	-4.32	-8.1	-2.6	4.24	2.6	-8.16	-12.73	-15.46	-17.33	-23.42
285	-12.85	-13.93	-11.29	-7.1	-12.68	-1.91	3.19	2.38	-10.43	-12.83	-16.64	-17.5	-23.42
300	-13.62	-18.5	-10.17	-10.35	-5.7	-7.57	2.92	3.66	-5.65	-10.28	-15.98	-13.16	-23.42
315	-14.29	-20.62	-9.08	-12.06	-3.39	-4.47	6.76	4.92	-8.43	-10.29	-17.58	-12.51	-23.42
330	-14.2	-21.82	-12.06	-14.44	-8.69	-3.68	5.71	3.16	-8.12	-9.91	-13.65	-13.49	-23.42
345	-13.27	-18.01	-12.32	-16.28	-7.72	-3.5	5.93	5.09	-12.6	-7.66	-9.95	-16.62	-23.42

5200MHz Composite Gain（1SS）													
Freq	5200												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.5472	-6.997	-5.668	-0.931	0.5837	3.6215	9.80697	6.8593	-3.507	-4.805	-7.303	-10.2	-16.13
15	-7.3774	-6.122	-9.347	-1.344	1.3074	3.7121	10.8796	7.3688	-3.65	-3.36	-7.18	-8.107	-16.13
30	-7.2562	-6.156	-7.863	-0.807	-0.531	2.2742	11.1736	8.5173	-4.518	-3.691	-8.392	-8.176	-16.13

45	-7.3933	-6.774	-5.157	0.4339	0.3795	2.406	11.2236	9.01	-3.506	-5.283	-7.895	-9.487	-16.13
60	-7.5935	-7.857	-0.922	-0.794	-2.009	5.3114	11.9139	9.7145	-0.159	-5.581	-7.972	-9.921	-16.13
75	-7.7454	-7.854	-0.869	0.5669	-0.576	2.8417	11.4468	9.9539	0.1985	-5.171	-8.063	-9.374	-16.13
90	-7.7831	-8.21	-4.564	-1.485	1.1296	3.2305	10.7795	9.24	-2.909	-3.692	-7.252	-7.446	-16.13
105	-7.6464	-6.965	-5.28	-0.928	0.3787	1.8779	10.2229	8.5382	-1.372	-4.43	-5.979	-6.022	-16.13
120	-7.0721	-6.356	-6.735	-2.377	0.8429	2.3473	10.5848	9.2703	-2.135	-8.575	-10.45	-6.273	-16.13
135	-7.1242	-6.25	-8.842	-0.671	-0.039	2.8073	10.6854	8.2335	-0.776	-7.213	-6.513	-9.058	-16.13
150	-7.3127	-5.613	-6.893	-1.131	-1.531	5.6439	10.2698	7.5091	-7.102	-5.778	-5.53	-12.04	-16.13
165	-7.107	-5.423	-3.854	1.1843	-1.925	4.9418	8.66276	5.6654	-2.325	-4.531	-7.972	-11.02	-16.13
180	-7.3636	-6.52	-3.113	0.8504	-3.89	6.1414	8.19623	5.6499	-2.438	-5.596	-9.3	-10.23	-16.13
195	-7.5592	-7.939	-3.794	0.5066	-1.619	6.0183	8.65217	4.8689	-5.237	-5.852	-9.225	-10.2	-16.13
210	-7.7419	-8.053	-4.647	-1.401	-1.405	6.0827	8.818	5.4563	-6.911	-6.154	-7.707	-10.25	-16.13
225	-7.9638	-6.687	-2.683	-0.527	-2.185	5.9655	9.1124	5.5414	-2.156	-8.376	-7.651	-9.391	-16.13
240	-7.8197	-4.991	-0.672	-4.351	0.2909	6.7117	10.7026	6.7715	-0.61	-4.316	-9.436	-11.66	-16.13
255	-7.3878	-3.847	-0.963	-0.075	-0.488	7.5229	8.9112	5.8486	-1.303	-10.61	-7.61	-10.51	-16.13
270	-7.1734	-3.402	-2.121	-2.249	-0.131	6.4265	8.37698	4.2338	-8.394	-5.032	-7.394	-8.947	-16.13
285	-7.3236	-4.165	-1.755	0.4599	-2.425	5.967	9.36156	5.7	-3.268	-4.105	-6.49	-8.788	-16.13
300	-8.0029	-6.037	-3.08	-0.175	0.0642	4.6902	9.47883	6.7919	0.0052	-5.712	-6.233	-8.191	-16.13
315	-8.3327	-7.817	-6.153	0.684	-0.634	5.6927	10.7766	7.8112	-2.686	-4.102	-8.112	-7.234	-16.13

330	-8.1415	-9.625	-8.498	-1.771	-3.32	5.0945	9.52763	7.166	-3.378	-2.879	-6.639	-6.214	-16.13
345	-8.0811	-8.716	-6.206	-3.334	-5.485	2.9908	9.9278	7.5508	-4.619	-3.159	-5.12	-7.952	-16.13

5200MHz Composite Gain（4SS）													
Freq	5200												
Phi\Theta	**0.00**	**15.00**	**30.00**	**45.00**	**60.00**	**75.00**	**90.00**	**105.00**	**120.00**	**135.00**	**150.00**	**165.00**	**180.00**
0.00	-13.41	-12.55	-11.68	-6.50	-5.00	-2.32	4.13	1.22	-8.85	-10.75	-12.66	-15.44	-21.74
15.00	-13.27	-11.83	-15.00	-7.13	-4.48	-2.05	4.97	1.54	-9.14	-8.83	-12.63	-13.21	-21.74
30.00	-13.22	-11.96	-13.40	-6.34	-6.22	-3.58	5.29	2.63	-10.51	-9.69	-14.38	-13.90	-21.74
45.00	-13.35	-12.54	-10.38	-5.51	-5.56	-3.12	5.25	3.20	-9.03	-10.68	-13.60	-15.15	-21.74
60.00	-13.44	-13.17	-6.63	-6.31	-7.58	0.01	5.90	3.83	-5.31	-11.40	-13.51	-15.92	-21.74
75.00	-13.70	-13.37	-6.41	-5.42	-5.93	-2.17	5.44	4.12	-5.21	-11.13	-13.86	-15.22	-21.74
90.00	-13.70	-13.58	-9.97	-7.22	-4.80	-1.91	4.96	3.53	-8.28	-8.93	-12.08	-13.37	-21.74
105.00	-13.56	-12.89	-11.12	-6.90	-5.32	-2.97	4.34	2.74	-6.23	-10.13	-11.60	-11.91	-21.74
120.00	-13.02	-12.07	-12.24	-7.92	-5.11	-3.39	4.64	3.33	-7.02	-14.50	-16.11	-12.22	-21.74
135.00	-13.04	-11.79	-14.65	-6.04	-5.73	-2.41	4.69	2.48	-6.27	-12.36	-12.13	-15.04	-21.74
150.00	-13.15	-11.31	-12.07	-6.84	-7.39	-0.25	4.30	1.65	-12.05	-11.24	-10.61	-17.96	-21.74
165.00	-13.04	-11.26	-9.19	-4.21	-7.93	-0.71	2.67	-0.31	-7.95	-10.18	-13.89	-16.45	-21.74
180.00	-13.30	-12.40	-8.78	-4.97	-8.12	0.23	2.43	0.03	-7.86	-11.41	-14.81	-15.26	-21.74
195.00	-13.52	-13.61	-8.89	-5.16	-7.60	0.20	2.66	-0.85	-10.75	-11.79	-14.62	-15.70	-21.74
210.00	-13.70	-13.50	-9.70	-7.04	-7.40	0.46	2.82	-0.30	-12.24	-11.81	-12.89	-15.61	-21.74
225.00	-13.84	-12.38	-8.59	-6.32	-7.80	0.38	3.22	-0.21	-7.97	-14.14	-12.94	-15.05	-21.74
240.00	-13.70	-10.90	-6.18	-10.25	-5.63	0.76	4.79	1.22	-6.26	-9.19	-14.92	-16.45	-21.74
255.00	-13.20	-9.82	-6.41	-5.75	-6.14	1.95	2.89	-0.04	-7.26	-16.33	-12.65	-15.96	-21.74
270.00	-13.03	-9.27	-7.71	-7.81	-6.07	0.72	2.62	-1.16	-12.93	-10.11	-13.07	-14.40	-21.74
285.00	-13.24	-9.80	-7.55	-5.43	-8.12	0.18	3.46	-0.09	-8.82	-8.97	-12.25	-13.95	-21.74
300.00	-13.93	-11.36	-8.71	-5.34	-5.75	-0.82	3.49	1.07	-5.50	-11.48	-11.71	-13.50	-21.74
315.00	-14.22	-12.73	-11.57	-4.91	-6.28	-0.10	4.88	2.18	-8.63	-9.19	-13.96	-12.94	-21.74
330.00	-14.02	-13.98	-14.36	-7.30	-9.04	-0.65	3.82	1.52	-8.73	-7.10	-12.30	-11.98	-21.74
345.00	-13.89	-13.64	-12.23	-8.88	-10.93	-2.90	4.01	1.89	-10.22	-8.95	-10.85	-13.36	-21.74

Ant2													
Freq	5300												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**

0	-14.02	-13.85	-11.38	-6.3	-12.99	-0.07	1.4	-4.45	-12.65	-9.84	-9.02	-12.12	-18.14
15	-14.41	-13.02	-12.72	-7.22	-10.71	1.33	4.6	-3.38	-14.26	-4.96	-9.13	-9.44	-18.14
30	-14.5	-11.89	-11.79	-9.07	-13.17	-0.13	3.43	-2.01	-11.74	-8.33	-14.42	-12.19	-18.14
45	-14.26	-13.72	-11.25	-4.71	-10.13	-0.19	4.84	0.07	-16.9	-6.62	-11.24	-18.14	-18.14
60	-13.16	-15.2	-7.54	-6.95	-17.3	2.1	5.95	2.92	-9.19	-10.07	-14.36	-13.05	-18.14
75	-14.28	-12.47	-9.03	-4.95	-7.92	1.43	5.84	3.55	-6.15	-8.09	-18.85	-12.43	-18.14
90	-13.93	-12.07	-14.27	-6.28	-8.9	-2.13	5.23	1.29	-12.3	-8.51	-16.4	-15.81	-18.14
105	-13.98	-13.89	-14.06	-6.08	-8.9	0.26	7.2	1.75	-12.24	-6.58	-14.43	-15.76	-18.14
120	-14.92	-14.92	-11.46	-7.38	-6.85	-3.59	6.04	2.52	-19.54	-17.91	-12.58	-15.2	-18.14
135	-14.27	-14.71	-13.23	-5.5	-3.59	-8.84	4.91	2.43	-7.61	-14.01	-8.61	-17.83	-18.14
150	-13.27	-15.49	-17.42	-8.92	-6.25	-1.91	6.44	1.34	-19.04	-10.59	-7.71	-17.35	-18.14
165	-14.69	-15.74	-11.4	-14.97	-8.29	-2.27	4.51	-1.82	-8.66	-11.7	-11.85	-12.67	-18.14
180	-14.3	-15.55	-10.36	-11.15	-5.63	-2.19	4.26	1.99	-10.15	-19.73	-13.43	-10.32	-18.14
195	-14.1	-16.04	-13.7	-6.4	-7.63	-0.58	4.84	0.84	-27.78	-11.33	-12.21	-13.7	-18.14
210	-14.9	-17.02	-15.51	-7.1	-6.02	-1.57	4.29	0.31	-21.45	-8.45	-8.64	-13.47	-18.14
225	-14.66	-16.56	-12.07	-6.98	-14.75	-3.77	4.1	1.03	-11.09	-18.41	-9.34	-11.96	-18.14
240	-14.81	-14.4	-8.42	-11.58	-10.76	1.48	5.88	0.48	-10.1	-4.02	-10	-14.63	-18.14
255	-14.44	-12.74	-10.3	-4.99	-5.89	3.02	3.3	-1.62	-7.82	-18.89	-7.47	-15.77	-18.14
270	-14.4	-12.02	-15.05	-9.38	-5.98	0.4	0.8	-3.33	-16.56	-9.19	-10.5	-11.69	-18.14
285	-14.54	-12.93	-7.21	-8.55	-10.12	-0.14	2.9	-1.34	-12.6	-5.99	-12	-9.77	-18.14
300	-14.48	-15.58	-8.11	-5.43	-5.32	0.99	4	-4.27	-10.83	-9.3	-12.84	-9.23	-18.14
315	-14.65	-19.13	-13.38	-5.16	-6.38	1.76	4.7	1.72	-7.75	-7.75	-14.25	-8.9	-18.14
330	-14.66	-17.97	-15	-5.86	-8.45	0.68	-1.04	-2.14	-13.03	-2.39	-10.32	-8.68	-18.14
345	-14.05	-14.26	-10.74	-7.86	-15.86	-2.69	2.17	-1.36	-8.59	-8.04	-7.56	-11.75	-18.14
Ant4													
Freq	5300												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-14.54	-7.19	-9.22	-12.32	-5	-0.94	3.96	0.32	-8.05	-10.8	-13.08	-15.88	-21.81
15	-14.5	-7.78	-7.05	-10.3	-5.28	-1.01	6.18	1.54	-9.47	-9.61	-13.52	-14.86	-21.81
30	-15.69	-9.07	-5.04	-9.34	-13.64	-3.24	6.12	3.13	-15.71	-9.65	-15.4	-15.77	-21.81
45	-16.3	-11.62	-4.39	-11.33	-7.06	-5.23	2.53	2.14	-14.73	-12.15	-13.3	-14	-21.81
60	-17.21	-14.1	-2.68	-7.17	-9.11	0.03	6.36	4.06	-6.38	-11.26	-16.04	-15.31	-21.81
75	-16.69	-13.04	-2.02	-7.37	-2.04	-5.18	6.67	2.97	-7.29	-10.05	-9.86	-14.09	-21.81
90	-17.17	-13.07	-6.16	-8.59	-10.82	1.28	6.23	3.31	-12.82	-9.85	-8.22	-12.68	-21.81
105	-17.13	-15.55	-10.23	-6.77	-4.43	-7.66	3.8	0.76	-8.37	-10.13	-10.35	-12.01	-21.81
120	-16.23	-13.86	-12.43	-5.64	-6.77	0.87	7.48	3.62	-8.34	-12.01	-17.06	-13.74	-21.81

135	-14.92	-10.08	-13.94	-2.53	-4.56	2.05	5.82	1.32	-10.86	-12.88	-19.72	-14.91	-21.81
150	-14.74	-8.61	-11.52	-3.81	-7.98	1.61	4.43	-0.68	-14.52	-12.87	-16.95	-16.22	-21.81
165	-15.23	-8.54	-4.81	-1.87	-4.58	-0.52	3.14	-2.52	-11.05	-5.68	-13.04	-17.9	-21.81
180	-15.89	-9.81	-4.94	-2.7	-12.56	-1.63	0.86	-2.31	-19.05	-8.56	-14.17	-20.22	-21.81
195	-16.8	-12.66	-4.87	-4.14	-5.21	0.2	2.74	-1.15	-13.47	-12.09	-11.99	-14.03	-21.81
210	-16.05	-14.57	-4.54	-8.59	-6.62	0.01	2.39	-2.37	-18.48	-15.77	-13.07	-12.92	-21.81
225	-14.43	-16.4	-5.94	-6.66	-5.6	4.66	4.48	-2.63	-6.41	-12.75	-21.99	-14.06	-21.81
240	-13.58	-16.42	-10.42	-10.88	-6.56	0.45	1.85	-4.82	-6.88	-14.11	-17.47	-15.59	-21.81
255	-13.42	-12.93	-13.07	-7.81	-11.33	3.47	3.61	0.85	-6.53	-13.02	-11.87	-14.88	-21.81
270	-13.79	-9.54	-9.93	-9.24	-7.35	1.33	2.37	-10.01	-13.62	-6.81	-18.72	-17.2	-21.81
285	-14.32	-8.36	-6.3	-4.14	-9.34	3.27	5.97	-1.35	-7.87	-10.54	-9.92	-21.81	-21.81
300	-15.52	-9.27	-6.93	-2.36	-11.04	0.88	3.99	2.13	-2.92	-13.58	-8.37	-16.02	-21.81
315	-15.64	-10.64	-9.79	-2.08	-5.39	-0.47	1.74	-4	-8	-7.29	-16.1	-12.6	-21.81
330	-15.32	-10.02	-15.63	-3.45	-9.22	-3.94	3.33	1.5	-6.04	-12.34	-13.68	-10.31	-21.81
345	-14.32	-8.11	-9.67	-7.29	-16.38	-4.72	2.73	-1.51	-11.44	-10.18	-9.28	-11.39	-21.81
Ant5													
Freq	5300												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-12.47	-12.66	-7.98	-1.74	-6.81	-2.94	4.49	0.4	-15.62	-7.53	-16.86	-17.98	-27.63
15	-11.35	-12.45	-13.59	-4.62	-8.89	-2.53	4.32	1.06	-6.21	-8.89	-10.08	-17.78	-27.63
30	-10.15	-10.62	-10.9	-3.33	-8.09	-4.58	6.29	4.52	-18.37	-5.68	-13	-16.8	-27.63
45	-9.64	-9.37	-15.1	-3.7	-4.3	-7.58	4.21	4.81	-10.98	-11.5	-17.12	-15.52	-27.63
60	-9.44	-9.4	-7.65	-11	-6.2	-4.68	7.87	5.56	-2.84	-12.31	-12.95	-13.78	-27.63
75	-9.36	-9.76	-4.07	-6.05	-7.15	-11.17	5.28	5.52	-6.7	-10.29	-13.93	-14.21	-27.63
90	-9.83	-9.84	-7.58	-4	-4.33	-12.02	3.49	5.28	-6.5	-11.17	-8.39	-13.43	-27.63
105	-10.13	-10.23	-8.64	-5.65	-1.44	-13.26	4.11	4.75	-4.01	-6.94	-8.35	-13.31	-27.63
120	-10.06	-12.78	-6.07	-5.91	-5.04	-5.12	4	3.65	-7.63	-12.73	-15.69	-12.4	-27.63
135	-9.77	-13.16	-6.78	-9.36	-15.99	-9.74	2.9	3.7	-7.04	-7.44	-12.08	-15.47	-27.63
150	-9.6	-9.15	-7.88	-9.49	-18.34	-0.13	3.39	1.16	-11.23	-13.35	-11.64	-17.94	-27.63
165	-9.4	-8.02	-14.63	-2.79	-8.81	2.35	4.98	0.08	-13.44	-12.29	-11.32	-19.35	-27.63
180	-9.56	-9.07	-9.7	-4.54	-10.28	0.64	0.96	-1.45	-16.53	-9.13	-17.44	-17.97	-27.63
195	-10.5	-10.46	-7.87	-14.14	-6.75	1.58	2.3	-4.49	-12.14	-15.27	-15.84	-15.91	-27.63
210	-12.06	-11.84	-7.75	-10.18	-6.54	5.56	2.3	-6.58	-14.98	-13.61	-11.51	-16.28	-27.63
225	-13	-12.19	-4.57	-11.29	-4.73	-0.39	-3.08	-4.55	-11.03	-12.16	-18.32	-15.81	-27.63
240	-13.39	-10.87	-2.31	-10.25	-3.07	3.03	3.03	-1.51	-10.77	-12.06	-21.58	-20.08	-27.63
255	-12.8	-7.5	-4.1	-10.21	-2.95	5.51	5.04	-1.08	-8.17	-11.47	-17.94	-27.63	-27.63

270	-12	-5.05	-7.12	-7.65	-2.23	3.87	-0.73	-6.65	-15.75	-11.12	-15.11	-17.52	-27.63
285	-11.85	-4.87	-7.57	-4.27	-3.94	1.62	-0.89	-8.73	-12.09	-20.9	-8.68	-13.67	-27.63
300	-12.2	-7.35	-11.77	-9.56	-4.62	1.41	3.14	-3.99	-14.08	-11.77	-14.17	-14.39	-27.63
315	-12.73	-10.16	-19.39	-5.38	-14.42	3.22	1.66	-4.51	-15.52	-10.86	-8.29	-15.8	-27.63
330	-13.02	-11.04	-11.57	-8.55	-7.26	3.02	3.08	-3.03	-17.34	-8.17	-10.59	-17.2	-27.63
345	-12.72	-11.72	-7.75	-4.14	-10.01	0.99	5.13	0.56	-10.82	-8.71	-16.08	-19.17	-27.63
Ant6													
Freq	5300												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-12.51	-11.14	-9.63	-5.23	-5.21	-2.67	6.31	1.24	-8.03	-14.75	-11.05	-13.29	-17.1
15	-11.25	-9.76	-9.58	-4.15	-4.59	-1.49	7.58	2.18	-13.39	-16.91	-19.55	-15	-17.1
30	-10.79	-10.15	-15.34	-6.44	-7.39	-0.17	5.9	2.23	-10.18	-8.58	-14.06	-14.55	-17.1
45	-11.06	-11.08	-15.25	-4.14	-9.36	1.01	6.76	0.9	-12.12	-14.28	-14.92	-11.03	-17.1
60	-11.15	-10.85	-10.27	-4.89	-15.81	4.24	6.67	1.29	-17.19	-12.09	-9.56	-10.94	-17.1
75	-11.09	-12.23	-8.13	-4.29	-12.4	0.97	2.51	-3.95	-11.18	-10.36	-10.1	-12.4	-17.1
90	-11.89	-18.94	-15.48	-15.48	-4.74	1.12	3.45	-4.14	-8.6	-11.73	-14.1	-12.57	-17.1
105	-11.52	-16.77	-10.16	-7.97	-7.67	1.05	3.59	-3.99	-19.29	-11.88	-12.07	-14.36	-17.1
120	-11.33	-10.92	-8.97	-19.34	-4.59	-0.29	4.09	-1.21	-20.05	-13.91	-19.75	-14.14	-17.1
135	-10.93	-9.99	-14.76	-16.64	-5.05	1.25	3.41	-2.54	-11.64	-20.47	-13.96	-14.15	-17.1
150	-10.73	-10.08	-7.49	-8.43	-9.77	1.76	3.01	-2.99	-16.04	-7.64	-10.39	-15.83	-17.1
165	-10.41	-10.05	-5.94	-6.11	-4.91	3.08	2.23	-1.6	-4.29	-13.31	-15.62	-16.3	-17.1
180	-10.97	-10.07	-7.94	-5.14	-5.37	2.85	0.93	-4.68	-4.24	-11.75	-16.77	-16.26	-17.1
195	-10.91	-9.77	-11.12	-2.53	-6.48	1.11	2.36	-6.02	-11.14	-12	-22.87	-17.1	-17.1
210	-11.5	-9.25	-10.34	-5.68	-5.71	0.71	2.34	-1.34	-9.55	-12.95	-12.36	-15.32	-17.1
225	-11.66	-9.21	-5.43	-7.08	-9.66	0.41	4.25	-0.97	-9.22	-11.94	-11.52	-11.68	-17.1
240	-11.85	-9.85	-3.96	-10.29	-9.41	0.45	5.58	3.78	-5.49	-14.29	-13.6	-9.48	-17.1
255	-11.66	-10.57	-4.37	-3.87	-12.6	-2.94	4.14	2.2	-8.81	-14.42	-18.86	-9.79	-17.1
270	-11.47	-12.12	-7.48	-4.2	-12.18	-1.26	4.82	2.93	-8.19	-12.87	-14.67	-12.51	-17.1
285	-10.67	-15.94	-8.76	-7.03	-11.05	-0.37	4.09	2.62	-11.11	-8.77	-16	-13.12	-17.1
300	-10.94	-17.05	-11.49	-9.13	-8.32	-7.07	1.39	2.24	-7.78	-6.58	-12.98	-11.08	-17.1
315	-11.81	-19.71	-14.64	-8.18	-3.82	-4.04	6.21	3.96	-11.89	-8.46	-12.2	-10.33	-17.1
330	-12.41	-29.46	-10.63	-10.25	-9.09	-3.29	6.48	3.36	-11	-7.08	-13.79	-10.74	-17.1
345	-12.59	-15.96	-9.18	-9.74	-10.23	-2.46	5.76	4.42	-11.91	-7.6	-12.76	-11.95	-17.1

5300MHz Composite Gain（1SS）													
Freq	5300												

Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.3166	-4.805	-3.448	0.3922	-0.954	4.4481	10.2338	5.6597	-4.501	-4.338	-6.024	-8.506	-14.28
15	-6.7143	-4.471	-4.319	-0.226	-0.989	5.2142	11.7911	6.6219	-4.201	-3.112	-6.204	-7.692	-14.28
30	-6.4464	-4.353	-3.923	-0.672	-4.092	4.2027	11.5299	8.3039	-7.401	-1.912	-8.157	-8.632	-14.28
45	-6.4091	-5.29	-4.253	0.5338	-1.386	3.7141	10.7379	8.1927	-7.365	-4.636	-7.859	-8.271	-14.28
60	-6.2676	-6.05	-0.559	-1.216	-4.893	7.0238	12.7631	9.6178	-1.483	-5.367	-6.868	-7.105	-14.28
75	-6.3849	-5.76	0.6853	0.4329	-0.577	3.8744	11.2288	8.6836	-1.602	-3.625	-6.473	-7.219	-14.28
90	-6.7777	-6.875	-3.934	-1.637	-0.755	4.4271	10.702	8.099	-3.636	-4.204	-5.057	-7.509	-14.28
105	-6.7814	-7.723	-4.536	-0.553	0.9071	2.892	10.8273	7.3735	-3.321	-2.587	-4.996	-7.731	-14.28
120	-6.7524	-6.972	-3.353	-2.134	0.2669	4.3196	11.546	8.3758	-5.994	-7.844	-9.864	-7.791	-14.28
135	-6.1808	-5.734	-5.515	-1.082	-0.128	3.8296	10.359	7.5397	-3.041	-6.506	-6.71	-9.465	-14.28
150	-5.8306	-4.428	-4.252	-1.324	-3.532	6.4774	10.4435	5.8963	-8.732	-4.786	-5.053	-10.77	-14.28
165	-6.0383	-4.089	-2.303	0.8472	-0.418	6.9431	9.80356	4.6094	-2.661	-4.159	-6.786	-10.16	-14.28
180	-6.2965	-4.763	-1.95	0.6528	-1.919	6.1731	7.90129	4.745	-4.544	-5.316	-9.268	-9.339	-14.28
195	-6.6968	-5.89	-2.737	0.1854	-0.453	6.6377	9.14563	3.7332	-8.208	-6.526	-8.755	-9.055	-14.28
210	-7.4016	-6.666	-2.648	-1.706	-0.194	7.6362	8.89306	3.8719	-8.934	-6.244	-5.203	-8.371	-14.28
225	-7.3316	-7.013	-0.538	-1.791	-1.848	6.7738	8.95992	4.4835	-3.199	-7.432	-7.878	-7.199	-14.28
240	-7.3228	-6.472	0.3447	-4.713	-0.913	7.439	10.2694	6.0566	-2.012	-3.952	-8.609	-8.106	-14.28
255	-7.0009	-4.626	-1.13	-0.359	-1.283	8.7954	10.0685	6.2435	-1.771	-8.023	-6.755	-9.013	-14.28

270	-6.8099	-3.155	-3.357	-1.331	-0.215	7.3077	8.08194	3.1179	-6.843	-3.682	-8.238	-8.31	-14.28
285	-6.6685	-3.491	-1.395	0.2201	-2.11	7.243	9.37988	4.6883	-4.691	-4.059	-5.217	-7.598	-14.28
300	-7.0763	-5.354	-3.301	-0.09	-0.945	5.6812	9.21344	5.6103	-1.895	-3.884	-5.767	-6.252	-14.28
315	-7.5555	-7.764	-7.63	1.0897	-0.669	6.5447	9.81938	6.0694	-4.224	-2.466	-6.187	-5.515	-14.28
330	-7.7519	-8.45	-6.924	-0.619	-2.449	5.6144	9.37968	6.3361	-4.885	-0.753	-5.92	-5.179	-14.28
345	-7.3651	-5.974	-3.247	-0.996	-6.59	4.0512	10.1018	6.8987	-4.572	-2.558	-4.81	-7.026	-14.28

5300MHz Composite Gain（4SS）													
Freq	5300												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-13.29	-10.42	-9.388	-5.007	-6.595	-1.49	4.3762	-0.152	-10.05	-10.03	-11.65	-14.26	-19.67
15	-12.6	-10.23	-9.95	-5.966	-6.685	-0.682	5.873	0.8037	-9.629	-8.401	-11.61	-13.13	-19.67
30	-12.17	-10.32	-9.118	-6.327	-9.695	-1.62	5.5757	2.5454	-12.92	-7.797	-14.14	-14.47	-19.67
45	-12.08	-11.18	-9.034	-5.144	-7.093	-1.717	4.8491	2.3743	-13.11	-10.15	-13.63	-13.92	-19.67
60	-11.91	-11.77	-6.102	-7.003	-9.919	1.4797	6.7736	3.7333	-6.528	-11.34	-12.54	-12.98	-19.67
75	-12	-11.68	-4.886	-5.514	-5.863	-1.221	5.3267	3.1246	-7.451	-9.589	-11.96	-13.2	-19.67
90	-12.43	-12.44	-9.186	-6.988	-6.4	-0.82	4.7634	2.581	-9.272	-10.13	-10.49	-13.45	-19.67
105	-12.46	-13.36	-10.37	-6.532	-4.627	-1.949	4.9516	1.8126	-8.137	-8.356	-10.75	-13.65	-19.67
120	-12.44	-12.86	-9.009	-7.424	-5.695	-1.393	5.6502	2.5298	-10.7	-13.64	-15.51	-13.75	-19.67
135	-11.94	-11.54	-10.82	-6.118	-5.508	-1.005	4.4168	1.7656	-8.847	-11.54	-12.03	-15.39	-19.67
150	-11.63	-10.16	-9.688	-6.989	-8.89	0.572	4.5337	0.0271	-14.32	-10.49	-10.59	-16.75	-19.67
165	-11.71	-9.755	-7.62	-4.398	-6.239	1.1647	3.8491	-1.355	-8.011	-9.55	-12.67	-15.79	-19.67
180	-11.98	-10.52	-7.692	-4.977	-7.489	0.3915	2.0222	-0.935	-8.962	-10.72	-15.13	-14.5	-19.67
195	-12.4	-11.64	-8.174	-5.187	-6.43	0.6559	3.1949	-1.894	-13.36	-12.44	-14.13	-14.97	-19.67
210	-13.23	-12.24	-7.959	-7.572	-6.206	2.0911	2.9178	-1.858	-13.87	-11.81	-11.04	-14.29	-19.67
225	-13.26	-12.49	-6.233	-7.655	-7.249	1.2686	3.2882	-1.302	-8.988	-13.18	-12.84	-13.07	-19.67
240	-13.28	-12.14	-5.143	-10.72	-6.418	1.4872	4.4039	0.5505	-7.766	-8.741	-13.75	-13.36	-19.67
255	-12.96	-10.34	-6.491	-6.073	-6.511	3.1661	4.0738	0.3586	-7.75	-13.71	-11.66	-13.83	-19.67
270	-12.75	-8.633	-8.982	-7.064	-5.625	1.4928	2.3091	-1.637	-12.15	-9.413	-13.78	-13.96	-19.67
285	-12.53	-8.632	-7.372	-5.617	-7.595	1.3529	3.6561	-0.668	-10.49	-9.2	-10.89	-12.93	-19.67
300	-12.91	-10.58	-9.076	-5.607	-6.651	0.0652	3.251	0.0872	-6.996	-9.511	-11.45	-11.89	-19.67

315	-13.45	-12.89	-13.08	-4.666	-6.152	0.8729	4.0174	0.7252	-9.797	-8.393	-11.7	-11.21	-19.67
330	-13.69	-13.11	-12.69	-6.265	-8.433	0.0501	3.7192	0.6901	-10.04	-6.093	-11.79	-10.81	-19.67
345	-13.35	-11.48	-9.2	-6.768	-12.15	-1.708	4.2113	1.2565	-10.49	-8.528	-10.33	-12.69	-19.67

Ant2													
Freq	5600												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-14.28	-7.3	-12.7	-7.14	-11.55	-1.36	0.37	-9.83	-15	-11.22	-9.34	-7.27	-17.27
15	-15.31	-8.03	-10.07	-8.61	-12.61	1.2	2.07	-8.95	-11.54	-5.26	-6.29	-7.63	-17.27
30	-14.88	-9.11	-11.45	-12.87	-14.42	1.79	3.37	-7.25	-9.01	-6.96	-11.77	-12.85	-17.27
45	-14.05	-10.27	-9.88	-5.04	-10.14	1.69	3.27	-7.21	-9.73	-8.91	-9.84	-10.37	-17.27
60	-14.62	-10.24	-9.74	-7.81	-9.92	0.59	3.91	-5.39	-14.73	-12.9	-12.27	-8.7	-17.27
75	-13.52	-10.23	-9.71	-6.5	-8.1	1.28	5.85	-0.54	-8.35	-8.97	-19.88	-12.37	-17.27
90	-12.77	-13.9	-9.87	-10.38	-8.04	1.92	6.64	-1.92	-7.4	-8.52	-16.01	-17.27	-17.27
105	-14.07	-16.32	-6.94	-12.63	-8.75	1.85	8.09	-3.86	-13.33	-5.12	-11.95	-14.39	-17.27
120	-14.12	-16.02	-9.01	-9.28	-7.53	-1.24	6.07	-3.4	-11.77	-15.15	-9.02	-12.16	-17.27
135	-15.04	-14.69	-9.77	-9.68	-4.84	0.62	6.08	-0.57	-5.18	-8.86	-9.07	-11.05	-17.27
150	-16.4	-14.28	-11.06	-7.71	-4.59	-2.35	6.77	-6.03	-13.23	-8.94	-7.45	-10.73	-17.27
165	-14.94	-15.55	-10.51	-9.5	-9.8	3.16	5.2	-5.05	-4.85	-11.98	-9.24	-9.16	-17.27
180	-13.75	-18.93	-10.07	-9.77	-12.17	1.28	6.32	-2.76	-7.7	-15.34	-14.11	-9.89	-17.27
195	-14.26	-15.98	-12.56	-9.66	-13.55	2.14	5.03	-3.08	-7.66	-9.18	-8.74	-14.62	-17.27
210	-13.88	-12.71	-7.33	-6.78	-16.83	-0.84	2.92	-6.73	-7.79	-11.9	-6.27	-10.49	-17.27
225	-14.36	-11.38	-12.69	-13.59	-9.31	2.08	4.9	-3.74	-11.39	-12.95	-7.97	-7.05	-17.27
240	-14.57	-12.25	-16.2	-13.07	-11.06	1.21	5.26	-2.65	-8.29	-3.23	-8.4	-6.99	-17.27
255	-15.03	-15.62	-12.82	-12.44	-6.75	3.18	2.3	-14.23	-15.89	-13.64	-5.94	-9.39	-17.27
270	-15.75	-16.83	-13.43	-7.4	-9.56	1.39	0.98	-4.19	-11.63	-7.22	-9.36	-9.63	-17.27
285	-15.56	-16.36	-13.26	-5.17	-13.68	-1.62	-1.13	-4.36	-10.46	-6.27	-10.92	-7.63	-17.27
300	-14.6	-17.72	-12.27	-4.46	-4.84	2.32	3.79	-8.25	-17.6	-11.13	-13.35	-7.61	-17.27
315	-13.51	-15.11	-11.65	-5.53	-6.27	3.46	4.75	-1.34	-7.32	-11.89	-20.1	-8.1	-17.27
330	-13.32	-10.74	-11.2	-6.6	-7.26	2.1	2.13	-3.95	-12.12	-4.68	-8.05	-12.54	-17.27
345	-13.57	-7.79	-11.72	-8.88	-11.14	-1.13	1.25	-3.04	-9.03	-8.61	-5.78	-14.18	-17.27
Ant4													
Freq	5600												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-10.22	-8.67	-8	-9.32	-9.56	-1.29	0.5	-3.97	-13.31	-10.14	-13.97	-13.97	-19

15	-10.29	-8.62	-6.43	-3.45	-12.8	-2.34	4.83	-3.04	-10.71	-9.13	-12.34	-14.31	-19
30	-10.12	-8.57	-6.19	-4.74	-8.96	-3.32	1.72	0.69	-18.95	-7.37	-10.72	-18.85	-19
45	-10.35	-8.87	-5.01	-8.79	-11.38	0.7	4.34	-0.51	-11.77	-9.54	-10.02	-13.47	-19
60	-10.73	-10.34	-5.24	-8.39	-4.96	2.6	8.36	2.3	-6.14	-9.13	-11.92	-10.56	-19
75	-10.61	-10.37	-9.08	-10.77	-9.23	-2.29	6.6	0.72	-8.72	-13.64	-5.88	-8.27	-19
90	-10.32	-11.08	-8.66	-10.36	-5.25	1.4	5.48	-1.14	-10.47	-15.81	-8.07	-7.09	-19
105	-10.35	-17.03	-4.14	-5.91	-7.6	-0.25	4.84	-0.58	-8.08	-9.22	-15.1	-6.6	-19
120	-10.6	-19.87	-7.08	-2.41	-5.38	2.49	6.73	1.36	-11.35	-9.56	-11.08	-8.67	-19
135	-10.01	-13.09	-8.68	-4.51	-13.29	3.1	3.07	-5.3	-11.3	-12	-15.96	-10.26	-19
150	-10.15	-11.79	-11.33	-5.32	-11.36	3.59	4.24	-2.82	-11.62	-14.62	-15.05	-10.79	-19
165	-10.32	-11.32	-6.01	-6.45	-4.26	3.37	3.3	-4.08	-8.11	-5.49	-13.35	-12.4	-19
180	-10.28	-9.62	-4.9	-7.8	-15.25	1.98	0.81	-4.4	-18.22	-10.14	-12.45	-13.38	-19
195	-10.39	-8.45	-8.97	-6.71	-5.08	1.85	2.54	-4.18	-10.66	-11.71	-9.08	-13.7	-19
210	-10.53	-8.05	-7.31	-7.14	-5.58	3.81	4.56	-2.36	-11.31	-9.35	-11.5	-11.73	-19
225	-9.62	-7.73	-7.01	-13.6	-6.59	2.81	2.19	-14.67	-10.49	-8.8	-12.7	-11.51	-19
240	-9.71	-8.55	-6.28	-11.23	-10.5	2.13	1.25	-4.77	-8.5	-10.77	-12.72	-9.74	-19
255	-9.96	-10.12	-10.44	-10.78	-9.65	3.24	1.79	-1.21	-7.38	-9.11	-12.99	-9.76	-19
270	-10.19	-10.28	-9.93	-9.58	-3.39	4.64	3.18	-11.4	-13	-4.89	-9.8	-13.5	-19
285	-10.33	-10.06	-7.61	-3.53	-8.11	3.91	5.48	-4.69	-16.83	-19.31	-10.87	-19	-19
300	-10.06	-12.37	-12.67	-5.04	-14.27	0.44	2.27	-2.63	-6.83	-13.14	-13.14	-12.2	-19
315	-9.93	-15.08	-13.59	-5.69	-2.53	3.26	5.9	-5.58	-11.89	-9.32	-12.37	-9.62	-19
330	-10.24	-11.32	-12.33	-3.91	-10.99	-1.11	3.98	-0.13	-8.6	-9.21	-10.77	-11.75	-19
345	-10.23	-8.7	-9.45	-7.78	-16.33	-3.67	3.05	-1.91	-10.37	-7.75	-9.9	-15.81	-19
Ant5													
Freq	5600												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-8.85	-14.66	-10.2	-7.05	-12.02	2.44	5.88	2.22	-10.08	-7.56	-14.09	-10.47	-18.63
15	-8.1	-12.68	-10.92	-11.48	-13.57	1.7	6.91	-0.25	-11.52	-7.62	-8.34	-9.89	-18.63
30	-8.2	-12.2	-6.46	-4.3	-4.89	-3.2	6.28	2.91	-23.49	-6.58	-13.35	-8.39	-18.63
45	-8.31	-12.84	-7.42	-4.63	-4.32	-10.99	3.32	0.43	-12.43	-6.45	-23.74	-8.42	-18.63
60	-8.79	-16.26	-8.65	-8.34	-3.98	-7.81	5.43	2.38	-7.63	-8.07	-13.42	-8.44	-18.63
75	-9.23	-17.15	-7.52	-12.9	-4.71	-4.28	7.69	6.04	-12.63	-6.21	-14.54	-8.36	-18.63
90	-9.44	-9.22	-11.84	-8.48	-6.59	-10.19	3.33	3.47	-6.68	-10.01	-11.2	-9.03	-18.63
105	-9.06	-6.48	-9.12	-3.68	-3.36	-12.57	2.8	1.33	-6.47	-6.14	-13.92	-11.34	-18.63
120	-9.24	-7.62	-5.93	-6.23	-10.55	-0.19	5.88	2.39	-9.73	-7.25	-18.36	-12.34	-18.63
135	-8.81	-10.48	-8.38	-3.81	-10.37	-0.32	3.37	2.57	-8.62	-4.83	-14.92	-13.26	-18.63

150	-8.45	-8.17	-7.76	-12.94	-15.54	0.09	3.64	0.37	-14.68	-10.69	-11.32	-12.72	-18.63
165	-8.57	-5.87	-8.87	-7.85	-13.47	0.51	0.65	-5.92	-15.07	-16.51	-10.21	-17.82	-18.63
180	-9.06	-6.28	-7.74	-3.84	-8.33	-0.13	-2.89	-5.86	-10.26	-9.81	-14.66	-13.59	-18.63
195	-9.75	-8.53	-6.6	-5.33	-4.13	-0.3	0.91	-5.39	-11.16	-17.04	-10.33	-10.11	-18.63
210	-10.45	-10.56	-6.98	-7.5	-4.71	4.08	-0.03	-16.12	-12.38	-15.26	-9.74	-10.15	-18.63
225	-10.49	-11.74	-7.63	-7.15	-3.14	2.45	-1.27	-4.49	-7.64	-12.38	-13.19	-10.28	-18.63
240	-9.49	-11.58	-5.06	-11.55	-3.22	4.67	2.36	-2.88	-9.21	-12.05	-21.61	-13	-18.63
255	-8.76	-8.4	-5.06	-9.82	-1.71	4.43	2.07	-3.84	-10.44	-9.46	-20.51	-18.63	-18.63
270	-8.52	-5.98	-10.86	-14.22	-2.24	2.3	-4.69	-5	-9.6	-8.84	-12.63	-17.92	-18.63
285	-8.64	-6.35	-14.05	-12.14	-3.24	4.29	1.44	-10.54	-16.2	-15.95	-11.27	-14.32	-18.63
300	-9.12	-9.71	-12.86	-9.07	-1.72	4.41	4.58	-2.02	-12.51	-10.38	-9.97	-13.85	-18.63
315	-9.78	-14.5	-9.11	-8.17	-17.6	4.57	2.31	-4.69	-13.03	-8.02	-8.13	-15.73	-18.63
330	-9.91	-16.42	-8.09	-7.38	-8.74	1.13	0.79	-11.62	-9.75	-7.55	-10.32	-16.09	-18.63
345	-9.46	-16.39	-6.86	-2.97	-11.67	1.38	5.17	-6.85	-8.25	-11.86	-12.89	-11.21	-18.63
Ant6													
Freq	5600												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-10.83	-13.33	-11.22	-5.17	-5.15	2.55	8.6	2.04	-9.37	-14.24	-11.66	-9.31	-19.01
15	-11.29	-10.98	-7.93	-4.76	-6.94	-1.9	4.01	-1.91	-11.17	-13.56	-13.81	-9.89	-19.01
30	-11.03	-9.74	-7.12	-5.92	-11.15	2.51	7.12	0.08	-13.61	-12.54	-13.75	-10.82	-19.01
45	-10.22	-9.99	-11.69	-4.21	-11.57	0.47	4.99	-4.41	-9.85	-15.63	-12.82	-9.86	-19.01
60	-10.65	-10.78	-10.69	-10.49	-13.73	2.21	3.01	-5.16	-15.46	-13.39	-11.42	-9.77	-19.01
75	-10.59	-10.34	-9.2	-5.01	-14.6	3.7	4.95	-1.86	-9.16	-8.59	-10.74	-10.09	-19.01
90	-10.67	-10.13	-10.49	-8.09	-6.52	2.8	2.02	-12.01	-9.67	-9.48	-11.16	-10.61	-19.01
105	-10.95	-13.06	-15.36	-8.1	-10.91	2.61	2.22	-7.06	-14.51	-13.37	-10.54	-14.83	-19.01
120	-11.21	-17.07	-11.48	-11.3	-5.85	-0.27	-0.02	-6.82	-15.71	-10.93	-12.75	-17.76	-19.01
135	-11.69	-12.58	-19.36	-8.26	-4.4	1.75	1.62	-8.18	-12.14	-11.94	-11.37	-14.62	-19.01
150	-11.71	-9.82	-11.73	-9	-7.96	2.61	1.02	-8.08	-23.72	-8.62	-11.61	-17.91	-19.01
165	-11.67	-8.92	-7.54	-7.46	-3.96	3.62	1.14	-3.29	-7.52	-11.64	-18.35	-19.01	-19.01
180	-11.16	-8.22	-6.35	-10.43	-4.86	4.05	1.94	-8.15	-8.54	-11.53	-18.66	-14.71	-19.01
195	-11.2	-7.99	-8.83	-7.83	-5.83	1.62	0.71	-10.91	-15.82	-13.69	-16.01	-12.28	-19.01
210	-10.94	-8.05	-11.59	-8.64	-8.23	2.02	2.99	-3.32	-13	-11.53	-10.24	-10.93	-19.01
225	-11.42	-8.62	-7.55	-6.79	-9.79	-1.08	2.01	-6.82	-14.74	-10.1	-9.93	-10.47	-19.01
240	-11.75	-9.43	-7.02	-5.58	-4.67	4.73	7.04	1.66	-7.87	-18.93	-11.79	-9.72	-19.01
255	-11.75	-11.39	-7.73	-5.53	-10.45	-8.44	0.43	-2.8	-11.7	-14.03	-11.62	-8.6	-19.01
270	-11.34	-17.54	-9.92	-4.91	-13.67	-0.35	4.71	0.91	-13.72	-14.05	-14.46	-9.88	-19.01

285	-11.55	-19.63	-13.71	-6.34	-8.53	-0.81	2.99	-0.4	-17.69	-9.56	-16.64	-10.17	-19.01
300	-10.77	-15.5	-13.13	-6.09	-3.33	1.07	6.22	0.32	-14.5	-7.87	-14.72	-9.71	-19.01
315	-10.03	-18.55	-11.22	-9.78	-7.95	-1.12	5.9	1.93	-12.9	-8.84	-13.06	-9.13	-19.01
330	-10.69	-25.89	-10.12	-6.9	-8	-1.2	6.13	1.83	-9.95	-8.82	-15.88	-8.54	-19.01
345	-10.65	-17.24	-10.74	-5.56	-5.2	1.8	6.85	1.98	-11.81	-9.22	-14.8	-8.86	-19.01

5600MHz Composite Gain（1SS）													
Freq	5600												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.8073	-4.433	-4.339	-1.026	-3.095	6.8141	10.5812	4.8894	-5.62	-4.445	-6.02	-3.909	-12.43
15	-4.8553	-3.862	-2.636	-0.5	-5.016	5.871	10.6491	3.0329	-5.208	-2.377	-3.655	-4.093	-12.43
30	-4.7157	-3.779	-1.546	-0.345	-3.141	5.8851	10.9105	5.8538	-8.603	-2.038	-6.291	-5.932	-12.43
45	-4.4762	-4.355	-2.112	0.5305	-2.775	5.193	10.0309	3.6129	-4.845	-3.523	-6.64	-4.323	-12.43
60	-4.9326	-5.559	-2.302	-2.679	-1.298	6.2687	11.4452	5.3625	-4.008	-4.547	-6.206	-3.306	-12.43
75	-4.832	-5.564	-2.817	-2.21	-2.46	6.1693	12.3515	7.6725	-3.539	-2.943	-5.292	-3.599	-12.43
90	-4.6963	-4.893	-4.119	-3.243	-0.524	6.2606	10.5735	4.6616	-2.395	-4.52	-5.151	-4.241	-12.43
105	-4.9016	-6.107	-1.986	-0.972	-1.18	5.5631	10.8259	4.0435	-3.925	-1.893	-6.679	-5.107	-12.43
120	-5.0973	-7.79	-2.109	-0.623	-1.084	6.3335	11.0621	5.1496	-5.86	-4.254	-6.157	-6.142	-12.43
135	-5.0685	-6.558	-4.572	-0.201	-1.438	7.4027	9.70979	4.1203	-2.848	-2.864	-6.368	-6.106	-12.43
150	-5.1936	-4.703	-4.296	-2.305	-2.932	7.3017	10.1769	2.4777	-8.753	-4.395	-4.918	-6.578	-12.43
165	-5.055	-3.706	-2.054	-1.726	-1.003	8.7714	8.78639	1.492	-2.145	-4.477	-6.11	-7.651	-12.43
180	-4.8778	-3.629	-1.041	-1.536	-3.262	7.9484	8.1904	0.9492	-4.323	-5.428	-8.67	-6.674	-12.43
195	-5.2175	-3.675	-2.968	-1.219	-0.446	7.3989	8.4972	0.5954	-4.84	-6.424	-4.584	-6.486	-12.43

210	-5.3211	-3.612	-2.091	-1.467	-1.728	8.4973	8.78269	0.2631	-4.851	-5.742	-3.189	-4.785	-12.43
225	-5.2784	-3.675	-2.424	-3.644	-0.766	7.7148	8.2476	-0.504	-4.683	-4.873	-4.664	-3.638	-12.43
240	-5.1322	-4.3	-1.701	-3.828	-0.664	9.3421	10.302	4.198	-2.433	-3.467	-6.45	-3.586	-12.43
255	-5.0504	-4.981	-2.509	-3.225	-0.398	7.8504	7.69761	1.6965	-4.817	-5.243	-5.308	-4.784	-12.43
270	-5.0479	-5.309	-4.902	-2.377	-0.046	8.2042	7.71965	2.1417	-5.822	-2.131	-5.297	-6.116	-12.43
285	-5.1491	-5.582	-5.694	-0.235	-1.601	7.8681	8.54414	1.7282	-8.762	-5.303	-6.099	-5.764	-12.43
300	-4.8855	-7.275	-6.706	0.0267	1.0927	8.2168	10.3525	3.3923	-5.912	-4.403	-6.592	-4.496	-12.43
315	-4.6616	-9.652	-5.226	-1.095	-1.084	8.8122	10.8532	4.1221	-4.925	-3.382	-6.429	-4.174	-12.43
330	-4.9208	-8.361	-4.271	-0.067	-2.619	6.3684	9.51302	3.8533	-3.994	-1.354	-4.801	-5.802	-12.43
345	-4.8251	-5.481	-3.474	0.0247	-4.15	5.8802	10.3562	4.1306	-3.74	-3.21	-4.134	-6.081	-12.43

5600MHz Composite Gain（4SS）													
Freq	5600												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-10.64	-9.971	-10.19	-6.928	-8.625	0.9924	5.227	-0.255	-11.37	-10.16	-11.81	-9.64	-18.42
15	-10.55	-9.701	-8.478	-6.043	-10.54	0.0286	4.7995	-2.572	-11.22	-7.979	-9.195	-9.842	-18.42
30	-10.46	-9.704	-7.375	-5.957	-8.506	0.2497	5.1379	0.3478	-13.32	-7.824	-12.22	-11.36	-18.42
45	-10.29	-10.27	-7.778	-5.342	-8.174	-0.172	4.0409	-1.963	-10.79	-9.088	-11.87	-10.18	-18.42
60	-10.74	-11.33	-8.047	-8.646	-6.659	0.7866	5.6839	0.0237	-9.227	-10.28	-12.2	-9.286	-18.42
75	-10.73	-11.27	-8.796	-7.731	-7.911	0.6543	6.3893	2.2614	-9.427	-8.635	-10.13	-9.482	-18.42
90	-10.64	-10.76	-10.07	-9.201	-6.489	0.9145	4.7312	-0.341	-8.28	-10.23	-10.79	-9.725	-18.42
105	-10.76	-11	-7.332	-6.505	-6.729	0.3687	5.1396	-1.486	-9.366	-7.468	-12.53	-10.44	-18.42
120	-10.96	-12.44	-7.906	-6.001	-6.912	0.4363	5.3223	-0.261	-11.66	-9.89	-11.69	-11.68	-18.42
135	-10.83	-12.45	-10.02	-5.906	-6.83	1.4771	3.8505	-1.063	-8.416	-8.342	-11.97	-11.96	-18.42
150	-10.84	-10.46	-10.15	-7.959	-8.178	1.5477	4.3873	-2.975	-14.13	-10.17	-10.53	-12.26	-18.42
165	-10.81	-9.13	-7.922	-7.681	-6.352	2.8267	2.9617	-4.473	-7.632	-9.618	-11.62	-12.84	-18.42
180	-10.75	-8.961	-6.872	-7.127	-8.508	2.0628	2.769	-4.864	-9.798	-11.24	-14.45	-12.48	-18.42

195	-11.1	-9.325	-8.762	-7.103	-6.011	1.4249	2.6656	-5.072	-10.46	-12.03	-10.28	-12.33	-18.42
210	-11.25	-9.442	-7.955	-7.461	-7.067	2.6595	2.9005	-4.938	-10.6	-11.54	-8.965	-10.79	-18.42
225	-11.15	-9.529	-8.23	-9.122	-6.351	1.8055	2.4804	-5.933	-10.37	-10.73	-10.42	-9.475	-18.42
240	-10.95	-10.19	-7.156	-9.287	-6.086	3.4522	4.5754	-1.461	-8.441	-7.998	-11.69	-9.365	-18.42
255	-10.81	-10.68	-8.075	-8.821	-5.669	2.495	1.7049	-3.634	-10.38	-10.99	-10.19	-10.31	-18.42
270	-10.75	-10.17	-10.82	-7.873	-5.197	2.3734	2.1948	-3.004	-11.69	-7.67	-11.09	-11.67	-18.42
285	-10.87	-10.41	-11.21	-5.846	-6.926	2.2169	2.8367	-3.7	-14.21	-10.18	-11.89	-10.99	-18.42
300	-10.71	-12.8	-12.72	-5.845	-4.251	2.338	4.4477	-2.219	-11.02	-10.22	-12.42	-10.2	-18.42
315	-10.57	-15.55	-11.1	-6.95	-6.143	2.9958	4.9375	-1.381	-10.57	-9.299	-11.69	-9.862	-18.42
330	-10.85	-13.38	-10.15	-5.968	-8.541	0.465	3.7268	-1.299	-9.93	-7.171	-10.47	-11.44	-18.42
345	-10.73	-10.67	-9.289	-5.691	-9.297	0.0946	4.5796	-1.359	-9.662	-9.115	-9.478	-11.7	-18.42

Ant2													
Freq	5800												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-20.02	-17.91	-9.81	-9.81	-9.92	0.51	-0.47	-10.8	-17.68	-14	-11.1	-10.12	-19.66
15	-20.1	-25.44	-9.26	-10.81	-10.48	2.01	2.8	-10.6	-11.61	-8.84	-12	-10.54	-19.66
30	-19.78	-18.59	-11.95	-6.23	-8.57	1.47	1.22	-9.37	-11.1	-11.84	-11.94	-12.06	-19.66
45	-19.89	-16.49	-16.31	-7.58	-10.8	3.79	2.56	-7.19	-10.13	-10.57	-13.24	-12.83	-19.66
60	-21.75	-18.95	-14.55	-7.11	-24.99	1.27	2.36	-8.46	-20.4	-15.13	-12.76	-13.51	-19.66
75	-19.98	-20.78	-16.51	-8.14	-17.61	1.95	4.68	-1.32	-14.62	-13.77	-24.4	-16.03	-19.66
90	-20.42	-19.73	-18.63	-5.08	-10.21	2.97	5.03	-3.63	-6.33	-11.13	-13.83	-16.48	-19.66
105	-20.98	-17.07	-19.72	-7.89	-15.55	2.24	5.93	-7.63	-10.96	-9.2	-14.52	-13.94	-19.66
120	-19.95	-17.98	-20.2	-8.84	-8.97	-0.08	4.86	-5.63	-12.28	-15.92	-12.87	-12.46	-19.66
135	-20.02	-19.88	-18.31	-10.57	-6.86	2.02	5	-3.14	-11.06	-14.83	-10.68	-12.39	-19.66
150	-21.34	-22.41	-15.27	-6.91	-9.88	2.07	6.64	-8.06	-8.74	-14.61	-8.87	-12.8	-19.66
165	-19.63	-19.18	-16.26	-7.7	-16.4	2.29	4.71	-9.46	-7.33	-15.77	-13.18	-12.29	-19.66
180	-20.19	-16.3	-16.35	-7.83	-15.21	2.13	5.66	-4.72	-11.67	-19.2	-14.48	-15.29	-19.66
195	-21.18	-16.88	-18.6	-8.29	-19.19	2.38	4.42	-7.63	-7.78	-14.54	-14.97	-19.66	-19.66
210	-19.92	-23.53	-17.46	-7.85	-19.03	1.54	3.02	-11.27	-7.62	-17.41	-9.43	-13.34	-19.66
225	-20.06	-20.74	-12.74	-10.2	-11.41	2.44	4.78	-4.13	-12.14	-14.54	-14.97	-12.26	-19.66
240	-19.68	-15.21	-16.18	-15.34	-12.1	0.08	2.71	-7.1	-10.18	-5.79	-12.05	-14.39	-19.66
255	-20	-12.77	-15.14	-11.3	-6.72	1.7	-0.07	-17.79	-16.12	-12.93	-12.48	-14.84	-19.66
270	-19.81	-12.53	-16.23	-7.79	-7.51	2.21	0.93	-5.1	-11.53	-10.24	-16.35	-15.69	-19.66
285	-20.26	-13.61	-15.95	-6.51	-9.09	0.78	0.65	-5.28	-11.17	-12.43	-17.37	-14.47	-19.66
300	-19.75	-14.93	-16.94	-5.35	-2.88	2.69	3.13	-8.88	-17.53	-17.72	-14.1	-12.33	-19.66
315	-19.92	-13.88	-15.55	-7.25	-4.64	3.12	3.5	-6.64	-12.49	-15.67	-21.73	-11.64	-19.66

330	-19.96	-12.37	-15.27	-6.62	-3.85	2.28	1.36	-5.69	-15.22	-7.3	-12.91	-14.93	-19.66
345	-20.39	-13.52	-11.06	-8.45	-6.66	-0.37	-1.53	-6.56	-11.5	-12.76	-9.65	-17.13	-19.66
Ant4													
Freq	5800												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-15.47	-15.12	-17.67	-6.86	-16.86	2.84	4.2	-4.72	-11.6	-12.35	-11.27	-13.97	-20.78
15	-15.86	-12.84	-26.02	-8.71	-13.92	0.84	6.14	-3.79	-18.46	-12.24	-14.92	-20.78	-20.78
30	-16.46	-10.67	-20.41	-7.87	-13.27	2.65	4.67	-2.51	-15.35	-13.35	-11.43	-16.57	-20.78
45	-16.37	-12.04	-13.5	-6.4	-9.72	1.56	3.98	-5.47	-8.92	-9.88	-9.83	-10.58	-20.78
60	-16.05	-15.29	-16.25	-8.48	-6.68	1.92	7.67	-1.93	-7.35	-11.72	-12.15	-9.48	-20.78
75	-15.4	-17.29	-13.58	-4.55	-7.2	1.96	7.52	1.48	-8.74	-13.2	-8.89	-9.23	-20.78
90	-14.94	-15.55	-12.22	-7.09	-10.6	0.57	4.71	-5.03	-9.24	-16.01	-7.63	-8.72	-20.78
105	-14.25	-12.05	-12.41	-6.72	-14.86	2.69	5.59	-3.47	-5.79	-11.75	-12.53	-8.46	-20.78
120	-14.14	-11.62	-20.38	-8.17	-10.95	2.89	5.78	-0.53	-8.22	-12.51	-12.36	-9.33	-20.78
135	-14.82	-14.07	-16.8	-5.52	-16.09	3.53	2.36	-8.15	-9.05	-10.41	-21.27	-11.37	-20.78
150	-14.94	-14.79	-13.48	-8.15	-11.09	1.71	-0.11	-8.7	-10.82	-17.52	-13.8	-12.77	-20.78
165	-15.05	-15.69	-13.33	-8.24	-8.15	2.2	2.45	-7.72	-7.92	-7.8	-13.97	-14.04	-20.78
180	-14.87	-17.68	-10.31	-9.53	-8.19	4.89	1.45	-9.38	-9.48	-14.23	-10.81	-14.83	-20.78
195	-14.03	-17.69	-9.82	-10.4	-4.91	0.98	-0.15	-13.56	-8.17	-13.96	-9.37	-15.72	-20.78
210	-13.6	-14.51	-8.78	-7.58	-5.69	5.04	5.15	-5.82	-18.97	-8.94	-14.37	-15.43	-20.78
225	-13.81	-11.17	-10.34	-10.13	-5.65	1.61	-2.18	-13.79	-18.22	-10.89	-12.84	-12.81	-20.78
240	-14.01	-9.76	-9.23	-14.9	-5.24	4.88	3.49	-4.84	-10.56	-14.88	-14.96	-13.22	-20.78
255	-14.8	-10.23	-8.53	-15.24	-5.45	4.32	1.38	-4.09	-9.26	-9.24	-16.19	-17.9	-20.78
270	-15.39	-13.67	-9.98	-12.83	-3.75	4.87	2.39	-11.08	-14	-10.88	-12.68	-16.83	-20.78
285	-15.56	-15.03	-11.86	-5.55	-7.49	4.73	4.35	-8.35	-14.22	-13.81	-14.71	-18.93	-20.78
300	-15.58	-10.97	-11.62	-8.12	-8.99	3.41	3.93	-6.46	-19.01	-16.19	-16.11	-15.61	-20.78
315	-14.99	-9.46	-10.79	-8.66	-3.91	5.38	4.95	-7.41	-12.17	-14.47	-12.47	-16.03	-20.78
330	-14.87	-10.47	-8.94	-9.17	-15.24	-0.53	-0.6	-8.72	-10.27	-12.43	-14.07	-17.85	-20.78
345	-15.13	-13.08	-13.89	-16.63	-18.79	1.02	2.3	-4.12	-15.95	-11.21	-12.26	-14.89	-20.78
Ant5													
Freq	5800												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-16.15	-16.58	-16.07	-7.45	-22.51	2.44	4.5	-4.53	-12.62	-12.87	-14.2	-14.84	-19.01
15	-16.19	-17.87	-13.53	-6.14	-13.16	1.69	7.03	-4.29	-9.72	-14.67	-12.97	-13.87	-19.01

30	-17	-20.62	-14	-6.41	-7.02	-2.38	5.25	-0.99	-12.97	-10.09	-11.31	-9.6	-19.01
45	-17.3	-20.32	-13.36	-9.38	-5.18	-3.99	6.39	-3.14	-10.16	-7.92	-9.73	-9.88	-19.01
60	-17.29	-19.19	-15.02	-11.57	-3.8	-5.77	6.88	1.19	-8.48	-13.87	-11.01	-10.37	-19.01
75	-18.42	-20.5	-15.36	-14.68	-4.91	-3.32	8.28	3.81	-8.01	-9.39	-17.88	-8.74	-19.01
90	-18.16	-16.96	-15.47	-9.49	-8.24	-4.04	5.38	1.12	-5.43	-16.06	-14.55	-9.25	-19.01
105	-17.93	-12.86	-15.51	-5.99	-6.48	-1.4	4.97	-1.23	-5.54	-9.59	-14.91	-9.37	-19.01
120	-17.88	-12.49	-12.07	-5.9	-11.52	1.52	6.25	-0.29	-8.41	-8.8	-14.91	-8.59	-19.01
135	-16.86	-17.24	-19.65	-7.14	-14.57	0.99	3.19	-0.78	-5.45	-6.26	-15.34	-11.16	-19.01
150	-16.65	-21.56	-13.69	-7.93	-14.76	0.89	3.7	-3.33	-11.72	-15.54	-12.15	-10.61	-19.01
165	-17.04	-14.92	-11.91	-11.13	-11.9	1.37	0.77	-7.31	-12.16	-23.54	-11.25	-13.2	-19.01
180	-17.62	-12.44	-13.18	-7.36	-4.29	3.04	0.36	-8.03	-12.23	-18.49	-11.64	-15.09	-19.01
195	-17.88	-11.96	-11.03	-7.24	-3.43	1.58	-0.48	-13.85	-15.88	-19.83	-9.51	-12.99	-19.01
210	-18.05	-11.72	-8.86	-10.86	-1.68	4.66	-0.61	-16.29	-16.39	-17.05	-11.3	-12.32	-19.01
225	-16.97	-11.96	-9.68	-11.8	-2.48	3.33	-2.55	-8.78	-6.79	-14.56	-10.86	-12.28	-19.01
240	-16.2	-11.71	-9.49	-19.76	-2.23	3.32	-1.38	-9.08	-10.99	-15.44	-14.55	-13.57	-19.01
255	-15.5	-11.96	-10.06	-11.42	-0.33	4.78	1.72	-5.87	-13.63	-15.68	-18.84	-18.08	-19.01
270	-15.81	-13.52	-11.54	-12.78	-0.97	3.04	-1.84	-8.82	-9.12	-13.97	-21.14	-19.01	-19.01
285	-16.16	-20.1	-7.39	-11.32	-2.88	2.84	-2.64	-12.45	-13.76	-21.58	-17.81	-16.19	-19.01
300	-17.14	-19.2	-11.34	-11.39	-2.15	4.12	-1.06	-8.88	-9.86	-16.85	-15.38	-15.55	-19.01
315	-17.42	-15.69	-11.7	-11.99	-6.34	5.64	1.98	-8.14	-12.75	-15.77	-14.17	-14.54	-19.01
330	-16.77	-15.47	-16.44	-7.45	-10.42	1.91	2.04	-12.09	-8.37	-11.58	-11.96	-11.78	-19.01
345	-16.42	-17.57	-14.12	-9.21	-10.77	2.95	4.6	-16.67	-9.66	-13.75	-11.94	-11.85	-19.01
Ant6													
Freq	5800												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-9.56	-20.65	-17.28	-7.18	-11.64	4.07	8.42	-2	-7.47	-13.84	-13.14	-10.85	-23.91
15	-9.45	-17.39	-15.01	-9.17	-11.88	1.65	5.04	-4.45	-11.01	-8.35	-9.75	-11.17	-23.91
30	-9.63	-14.42	-12.41	-7.32	-21.35	5.8	8.15	-4.57	-9.08	-8.88	-12.69	-15.31	-23.91
45	-9.64	-13.5	-9.02	-6.73	-15.39	4.9	5.09	-6.01	-9.23	-11.67	-12.9	-15.45	-23.91
60	-9.23	-11.55	-12.03	-5.93	-28.7	2.97	2.47	-5.08	-11.54	-9.79	-14.5	-13.07	-23.91
75	-9.41	-9.01	-13.74	-10.54	-7.49	4.73	1.51	-12.83	-11.72	-10.37	-9.36	-12.96	-23.91
90	-9.72	-7.71	-7.65	-6.27	-11.12	3.71	2.61	-10.06	-12.21	-12.52	-11.62	-13.69	-23.91
105	-9.57	-8.87	-12.5	-13.07	-8.06	2.23	-1.21	-15.65	-11.72	-15.81	-11.92	-17.81	-23.91
120	-9.69	-11.69	-16.5	-8.55	-4.14	1.7	-1.02	-16.23	-11.28	-12.43	-12.11	-23.91	-23.91
135	-10.18	-11.37	-14.36	-11.32	-4.24	3.43	1.06	-17.2	-12.32	-13.75	-12.13	-20.26	-23.91
150	-10.27	-10.42	-25.04	-8.93	-3.55	2.83	-0.04	-12.38	-10.07	-15.87	-14.12	-18.21	-23.91

165	-10.62	-11.03	-13.15	-7.24	-5.57	3.41	0.67	-7.7	-19.55	-13.54	-14.33	-22.93	-23.91
180	-10.87	-11.88	-12.39	-11.29	-6.51	4.03	0.08	-9.54	-14.31	-13.84	-16.19	-21.73	-23.91
195	-10.8	-11.54	-15.95	-16.63	-7.03	3.68	0.95	-9.66	-13.03	-14.1	-16.59	-16.9	-23.91
210	-10.54	-10.97	-11.7	-11.77	-7.84	3.29	2.29	-6.56	-15.32	-15.11	-12.33	-15.18	-23.91
225	-10.38	-10.48	-9.94	-11.08	-8.35	0.69	1.44	-11.76	-19.13	-19.4	-13.13	-13.19	-23.91
240	-10.31	-11.31	-9.36	-7.98	-4.94	4.35	5.62	-3.72	-12.39	-18.35	-13.95	-12.28	-23.91
255	-10.53	-14.39	-7.7	-5.55	-9.16	-6.06	0.9	-9	-8.64	-14.76	-12.37	-10.66	-23.91
270	-10.66	-17.47	-12.61	-7.85	-10.6	0.9	4.18	-1.95	-9.22	-13.6	-10.67	-12.15	-23.91
285	-10.65	-16.3	-19.1	-7.02	-15.44	1.44	3.79	-2.71	-11.45	-17.44	-13.17	-13.73	-23.91
300	-10.47	-15.1	-14.23	-6.64	-6.5	3.94	6.6	-1.92	-8.7	-13.66	-14.26	-9.75	-23.91
315	-9.82	-21.6	-15.22	-7.8	-6.89	0.93	5.92	-2	-8.16	-16.01	-10.22	-8.23	-23.91
330	-9.26	-28.51	-11.21	-7.97	-5.84	0.98	5.55	-0.58	-12.57	-12.44	-14	-8.44	-23.91
345	-9.33	-24.83	-13.32	-11.42	-7.21	0.64	5.85	-2.58	-6.39	-11.39	-13.77	-10.77	-23.91

5800MHz Composite Gain（1SS）													
Freq	5800												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-8.4425	-11.31	-8.543	-1.73	-7.965	8.5777	10.7366	1.0504	-5.591	-7.217	-6.311	-6.196	-14.63
15	-8.4976	-11.3	-8.15	-2.522	-6.24	7.5787	11.4121	0.6316	-6.106	-4.636	-6.189	-7.255	-14.63
30	-8.8244	-9.198	-8.099	-0.911	-5.028	8.3848	11.1845	2.1855	-5.801	-4.855	-5.805	-6.93	-14.63
45	-8.8833	-9.025	-6.622	-1.428	-3.506	8.1875	10.6394	0.6965	-3.572	-3.88	-5.249	-5.903	-14.63
60	-8.856	-9.641	-8.302	-2.009	-4.422	6.7034	11.2069	3.1743	-4.686	-6.365	-6.494	-5.417	-14.63
75	-8.7725	-9.411	-8.694	-2.7	-2.166	7.8029	11.9042	5.629	-4.376	-5.466	-7.056	-5.24	-14.63
90	-8.8196	-7.706	-6.513	-0.817	-3.951	7.303	10.5173	2.5112	-1.895	-7.64	-5.444	-5.45	-14.63
105	-8.608	-6.218	-8.546	-2.002	-4.313	7.6061	10.2705	0.5022	-2.023	-5.202	-7.356	-5.62	-14.63
120	-8.4931	-7.069	-10.57	-1.764	-2.35	7.5916	10.4201	2.2297	-3.849	-6.03	-6.975	-5.887	-14.63
135	-8.6994	-9.035	-11.03	-2.287	-3.028	8.576	9.04194	0.588	-3.044	-4.622	-7.988	-7.092	-14.63

150	-8.8936	-9.859	-9.803	-1.929	-2.812	7.9236	9.0384	-1.49	-4.248	-9.802	-5.951	-7.164	-14.63
165	-8.9198	-8.701	-7.502	-2.432	-3.587	8.3686	8.33055	-1.988	-4.555	-7.463	-7.078	-8.734	-14.63
180	-9.169	-8.21	-6.775	-2.848	-1.692	9.6048	8.21878	-1.668	-5.732	-10.09	-6.996	-10.3	-14.63
195	-9.0916	-8.058	-7.125	-3.952	-0.93	8.2353	7.43633	-4.753	-4.565	-9.279	-6.011	-9.969	-14.63
210	-8.7281	-7.992	-5.048	-3.304	-0.626	9.7583	8.7215	-3.048	-7.418	-7.872	-5.655	-7.95	-14.63
225	-8.5462	-6.747	-4.574	-4.755	-0.334	8.0931	6.92266	-2.804	-6.576	-8.323	-6.807	-6.606	-14.63
240	-8.3693	-5.761	-4.608	-7.405	0.5679	9.3651	8.97972	0.0759	-4.97	-6.163	-7.783	-7.311	-14.63
255	-8.55	-6.188	-3.906	-4.141	1.2378	8.1173	7.02884	-1.846	-5.363	-6.763	-8.546	-8.798	-14.63
270	-8.7861	-8.087	-6.282	-3.939	1.0618	8.8962	7.70663	-0.016	-4.727	-5.999	-8.348	-9.535	-14.63
285	-8.9613	-9.926	-6.442	-1.321	-1.618	8.6029	7.98084	-0.458	-6.525	-9.621	-9.532	-9.59	-14.63
300	-9.022	-8.548	-7.23	-1.578	1.3149	9.5782	9.58443	-0.015	-6.617	-9.948	-8.903	-6.936	-14.63
315	-8.6784	-8.11	-7.042	-2.723	0.6604	9.99	10.2341	0.3312	-5.154	-9.438	-7.703	-6.064	-14.63
330	-8.2867	-8.562	-6.417	-1.733	-1.794	7.2466	8.40244	0.2981	-5.219	-4.635	-7.17	-6.526	-14.63
345	-8.3657	-10.14	-6.989	-4.88	-3.709	7.1659	9.24947	-0.079	-4.198	-6.195	-5.757	-7.288	-14.63

5800MHz Composite Gain（4SS）													
Freq	5800												
Phi\Theta	**0**	**15**	**30**	**45**	**60**	**75**	**90**	**105**	**120**	**135**	**150**	**165**	**180**
0	-13.63	-17.13	-13.85	-7.684	-13.08	2.6448	5.2167	-4.548	-10.97	-13.21	-12.24	-12	-20.48
15	-13.63	-16.51	-13.08	-8.372	-12.16	1.5684	5.5191	-5.1	-11.72	-10.33	-12.01	-12.72	-20.48
30	-13.93	-14.43	-13.71	-6.907	-10.09	2.801	5.4827	-3.415	-11.54	-10.72	-11.81	-12.53	-20.48
45	-13.96	-14.59	-12.23	-7.379	-8.843	2.6214	4.7301	-5.19	-9.576	-9.788	-11.12	-11.69	-20.48
60	-13.73	-15.07	-14.18	-7.816	-7.985	1.0907	5.5057	-2.201	-9.943	-12.15	-12.43	-11.27	-20.48

75	-13.77	-13.94	-14.64	-8.051	-7.514	2.1579	6.215	0.6074	-10.07	-11.3	-11.79	-10.85	-20.48
90	-13.9	-12.44	-11.65	-6.704	-9.897	1.6627	4.5551	-2.716	-7.579	-13.4	-11	-10.99	-20.48
105	-13.66	-11.81	-14.19	-7.718	-9.569	1.7087	4.5626	-4.55	-7.63	-10.93	-13.29	-11.04	-20.48
120	-13.66	-12.82	-15.88	-7.697	-7.805	1.6326	4.7181	-2.762	-9.701	-11.7	-12.93	-11.03	-20.48
135	-13.99	-14.52	-16.82	-7.991	-7.943	2.6158	3.1413	-4.28	-8.645	-9.971	-13.39	-12.66	-20.48
150	-14.12	-14.66	-15.21	-7.92	-7.854	1.9307	3.4846	-6.917	-10.2	-15.76	-11.69	-12.85	-20.48
165	-14.3	-14.26	-13.4	-8.344	-8.878	2.379	2.4777	-7.973	-9.806	-12.2	-13.01	-14.22	-20.48
180	-14.52	-13.92	-12.56	-8.744	-7.113	3.6452	2.5423	-7.44	-11.58	-15.8	-12.77	-16.01	-20.48
195	-14.36	-13.68	-12.55	-9.489	-6.077	2.2758	1.6679	-10.39	-10.06	-15.06	-11.53	-15.68	-20.48
210	-14.04	-13.3	-10.6	-9.143	-5.506	3.8356	2.9232	-8.381	-12.25	-13.09	-11.5	-13.87	-20.48
225	-13.89	-12.25	-10.52	-10.75	-5.785	2.127	1.4305	-8.046	-11.28	-13.9	-12.71	-12.62	-20.48
240	-13.78	-11.59	-10.32	-12.38	-4.949	3.505	3.2609	-5.722	-10.95	-10.71	-13.73	-13.3	-20.48
255	-13.98	-12.08	-9.592	-9.443	-4.128	2.6933	1.0331	-7.037	-10.93	-12.39	-14.22	-14.25	-20.48
270	-14.22	-13.95	-12.05	-9.633	-4.3	2.9975	1.935	-5.389	-10.55	-11.87	-13.7	-15.18	-20.48
285	-14.33	-15.68	-11.47	-7.131	-6.75	2.7211	2.3185	-5.87	-12.44	-15.1	-15.34	-15.42	-20.48
300	-14.34	-14.12	-13	-7.356	-4.333	3.5747	3.9278	-5.5	-11.73	-15.82	-14.89	-12.6	-20.48
315	-13.87	-13.28	-12.82	-8.588	-5.276	4.1521	4.334	-5.292	-10.93	-15.44	-13.08	-11.57	-20.48
330	-13.41	-13.53	-11.94	-7.706	-7.026	1.2881	2.6878	-4.747	-10.9	-10.34	-13.15	-11.9	-20.48
345	-13.48	-15.43	-12.91	-10.5	-9.006	1.2338	3.5847	-5.296	-9.646	-12.16	-11.65	-12.99	-20.48