

FCC Composite Gain Test Report

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Basic Information

EUT Description:	BE24000 Quad-Band Wi-Fi 7 Router		
Brand Name:	tp-link		
Model Name:	Deco BE77		
Tested By:	Xuan Shan Xuan Shan	Date:	2025/6/24

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1 Operation Mode and Antenna Information

1.1 EUT Operation Mode

The **Deco BE77**(MODEL NUMBER) is the Three-band wireless router of 10 internal antennas, of which 2 were 2.4G&5G antennas and 2 were 5G antennas and 6 were 6G antennas.

1.2 Antenna Information

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

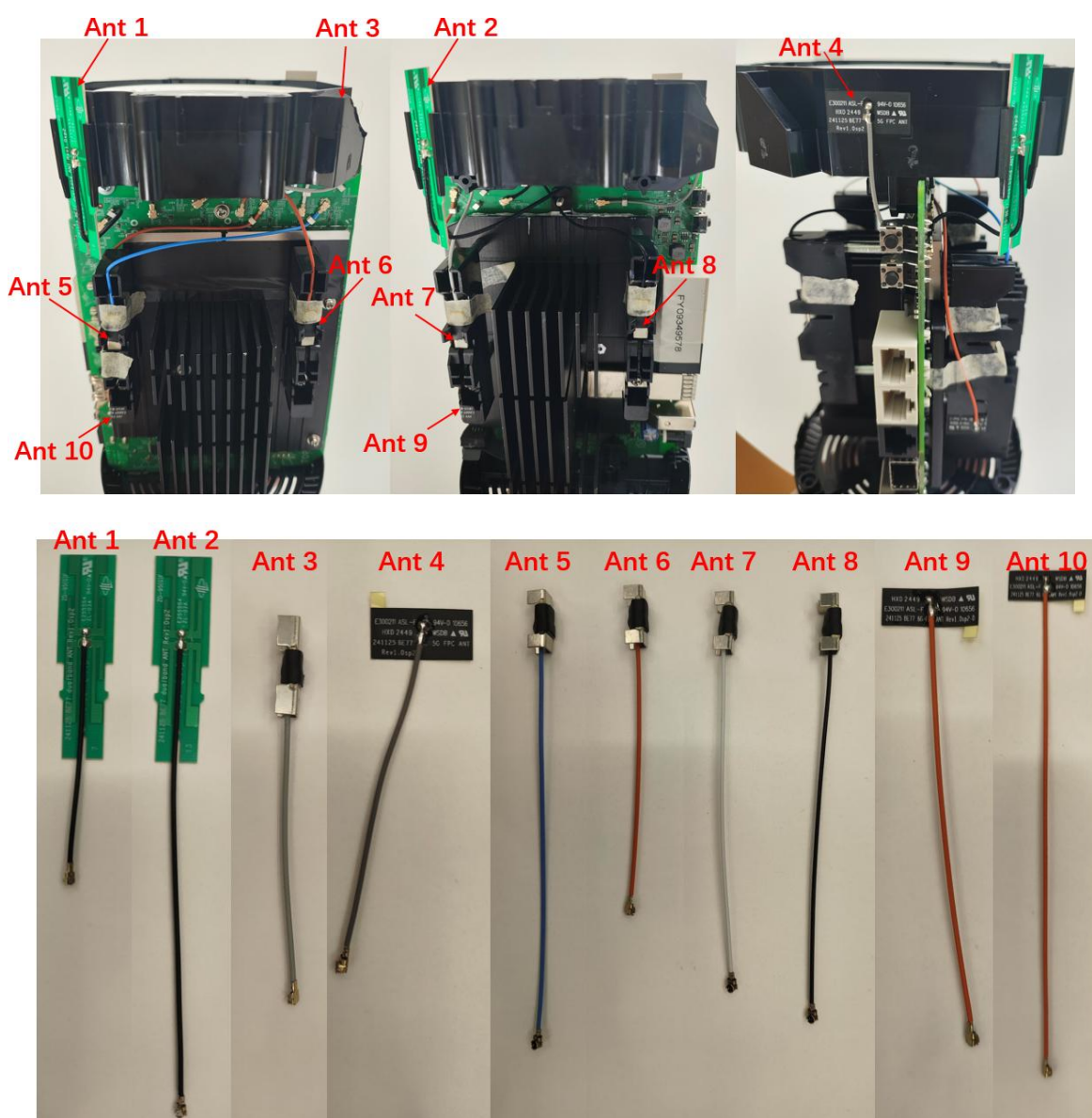


Figure 1-1 Locations of Antennas

The Antenna Information was shown below:

Table 1- 1 Antenna Information

Antenna Position	Antenna Type	Connector	Mode of operation
Ant1	Dipole	ipex	2.4G&5G
Ant2	Dipole	ipex	2.4G&5G
Ant3	Dipole	ipex	5G
Ant4	Dipole	ipex	5G
Ant5	Dipole	ipex	6G
Ant6	Dipole	ipex	6G
Ant7	Dipole	ipex	6G
Ant8	Dipole	ipex	6G
Ant9	Dipole	ipex	6G
Ant10	Dipole	ipex	6G

1.3 Test Frequency

Test frequency bands are shown in *Table 1-2*.

Table 1- 2 Test Frequency

Frequency Band(MHz)
2400-2500
5150-5250
5250-5350
5470-5725
5725-5925
5925-6425
6425-6525
6525-6875
6875-7125

2 Test System

2.1 Test Equipment

Table 2- 1Test System

Equipment	Model	Manufacturer	S/N	Cali. Interval	Cali. Due Date
Chamber	Rayzone2800	GTS	MY53470435	12months	2026/04/15
Vector	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.

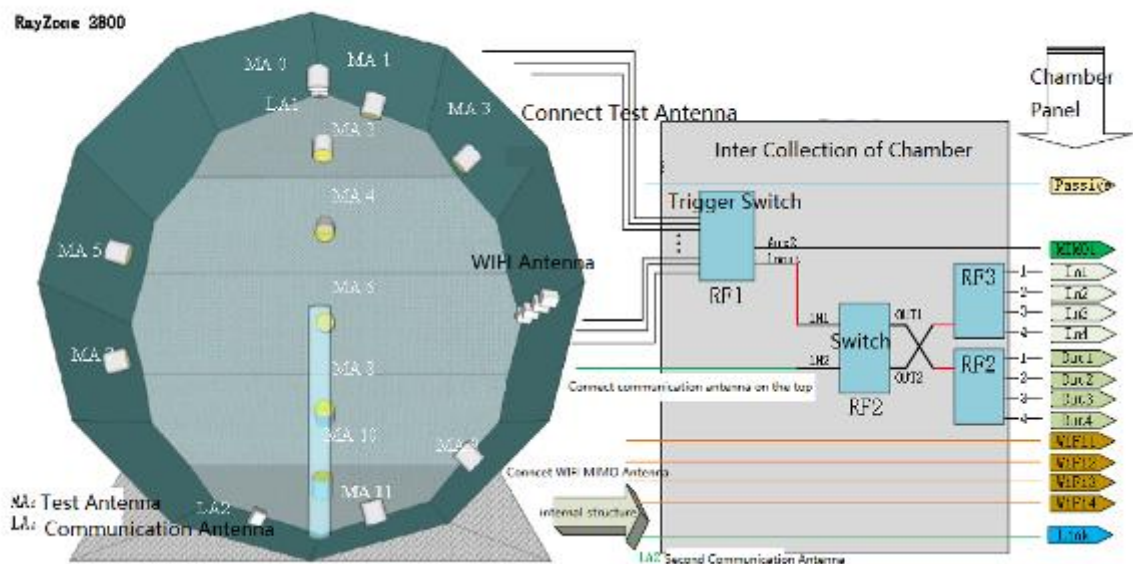


Figure 3- 1 Schematic diagram of antenna near-field measurement system

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 their operating frequency was 600MHz~8.5GHz.

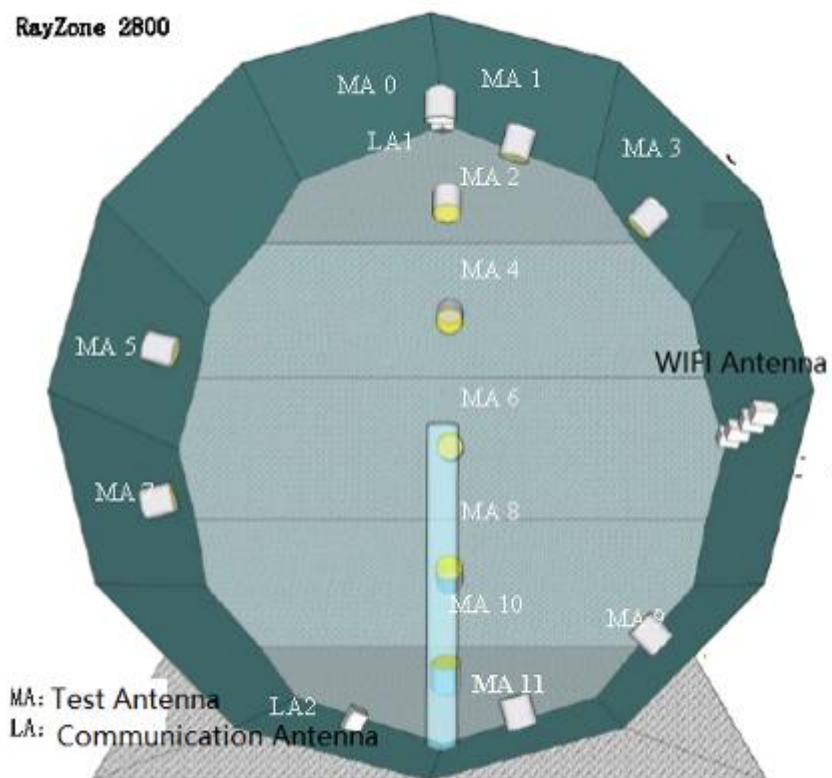


Figure 3-2 Antenna anechoic chamber for near-field measurement

During the measurement, the probe antennas were rotated in the 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.

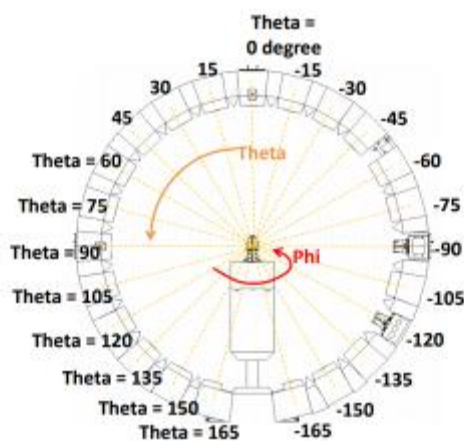


Figure 3-3 System diagram

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 5GL and 5GU 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.

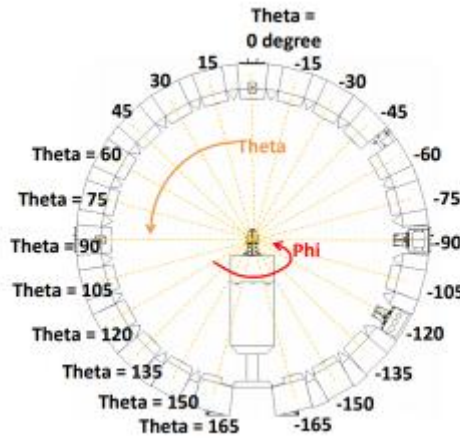


Figure 3-5 Test angle

3.4 Directional Gain (Nss=1) Calculations

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

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

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

Where

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

Nant = the total number of antennas: NANT =4 for 2.4G & 5G & 6G antennas

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

G_k is the gain in dBi of the kth antenna .

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

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

3.5 Directional Gain (Nss=N_{ant}) 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 combined gain value can be modified as formula 2-2

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

Where

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

Nant = the total number of antennas: NANT =4 for 2.4G & 5G & 6G antennas

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

G_k is the gain in dBi of the kth antenna .

$$\text{Directional Gain} = \text{Maximum} \left[10\log \left[\frac{\sum_{j=1}^{N_{ANT}} g_{j,k}}{N_{ANT}} \right] \right] \quad (2-4)$$

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

3.6 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 DG_Nss=1 of the system at this angle is obtained

$$\text{Directional Gain} = 10\log \left[\frac{\sum_{j=1}^{N_{SS}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right] \quad (2-5)$$

- 3) Use formula below to calculate and the DG_Nssmax of the system at this angle is obtained

$$\text{Directional Gain} = 10\log\left[\frac{\sum_{j=1}^{N_{ANT}} g_{j,k}}{N_{ANT}}\right] \quad (2-6)$$

- 4) 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.

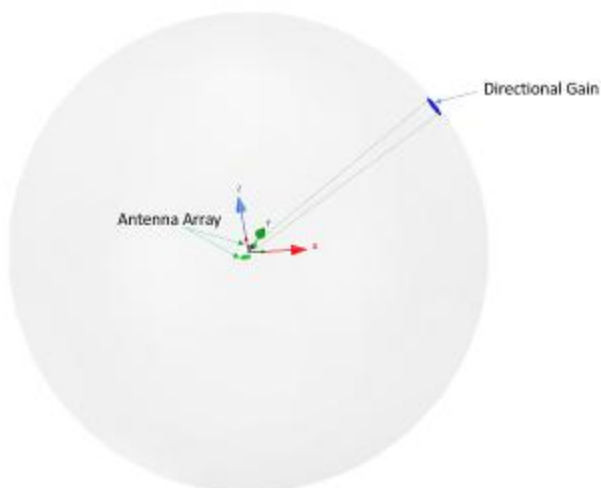


Figure 3- 6 Directional Gain Calculation Sketch Map

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	6G
Ant1	Ant1	Ant1	Ant5
Ant2	Ant2	Ant2	Ant6
Ant3	\	Ant3	Ant7
Ant4	\	Ant4	Ant8
Ant5	\	\	Ant9
Ant6	\	\	Ant10

4.2 2G

4.2.1 DG_1SS Max Value Position

Table 4- 2 DG_1SS Max Value Position

Frequency(GHz)	2.40~2.50
Ant1(dBi)	1.40
Ant2(dBi)	3.36
Polarization	Theta
Φ (°)	180
θ (°)	75

4.2.2 DG_1SS Max Value Position Calculation

Table 4- 3 DG_1SS Max Value Position Calculation

Frequency(GHz)	2.40~2.50
Ant1[10^(G/20)]	10^(1.40/20)
Ant2[10^(G/20)]	10^(3.36/20)
Ant1[10^(G/20)] value	1.1749
Ant2[10^(G/20)] value	1.4723
Sum of Ants Value(Antmax)	2.6472
DG[10*Log(Antmax^2/Nant)] (dBi)	5.45

4.2.3 DG_NSS2 Max Value Position

Table 4- 4 DG_NSS2 Max Value Position

Frequency(GHz)	2.40~2.50
Ant1(dBi)	1.40
Ant2(dBi)	3.36
Polarization	Theta
Φ (°)	180
θ (°)	75

4.2.4 DG_NSS2 Max Value Position Calculation

Table 4- 5 DG_NSS2 Max Value Position Calculation

Frequency(GHz)	2.40~2.50
Ant1[10 ^{^(G/10)}]	10 ^{^(1.40/10)}
Ant2[10 ^{^(G/10)}]	10 ^{^(3.36/10)}
Ant1[10 ^{^(G/10)}] value	1.3804
Ant2[10 ^{^(G/10)}] value	2.1677
Sum of Ants Value(Antmax)	3.5481
DG[10*Log(Antmax/Nant)] (dBi)	2.49

4.3 5G_Ant1, Ant2 and Ant3

4.3.1 DG_1SS Max Value Position

Table 4- 64 DG_1SS Max Value Position

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1(dBi)	3.09	4.47	2.05	3.31
Ant2(dBi)	0.26	-0.84	1.63	0.83
Ant3(dBi)	1.33	0.04	0.83	0.77
Polarization	Linear	Linear	Linear	Linear
Φ (°)	150	120	120	120
θ (°)	90	75	75	75

4.3.2 DG_1SS Max Value Position Calculation

Table 4- 7 DG_1SS Max Value Position Calculation

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1[10 ^{^(G/20)}]	10 ^{^(3.09/20)}	10 ^{^(4.47/20)}	10 ^{^(2.05/20)}	10 ^{^(3.31/20)}
Ant2[10 ^{^(G/20)}]	10 ^{^(0.26/20)}	10 ^{^(-0.84/20)}	10 ^{^(1.63/20)}	10 ^{^(0.83/20)}

Ant3[10 ^{^(G/20)}]	10 ^{^(1.33/20)}	10 ^{^(0.04/20)}	10 ^{^(0.83/20)}	10 ^{^(0.77/20)}
Ant1[10 ^{^(G/20)}] value	1.4272	1.6730	1.2662	1.4639
Ant2[10 ^{^(G/20)}] value	1.0304	0.9078	1.2064	1.1003
Ant3[10 ^{^(G/20)}] value	1.1655	1.0046	1.1003	1.0927
Sum of Ants Value(Antmax)	3.6231	3.5854	3.5729	3.6569
DG[10*Log(Antmax ² /Nant)] (dBi)	6.41	6.32	6.29	6.49

4.3.3 DG_NSS3 Max Value Position

Table 4- 8 DG_NSS3 Max Value Position

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1(dBi)	-2.48	-1.38	-2.06	-2.63
Ant2(dBi)	5.10	5.24	3.28	4.34
Ant3(dBi)	0.36	-1.10	2.14	1.64
Polarization	Linear	Linear	Linear	Linear
Φ (°)	330	330	330	330
θ (°)	75	75	75	75

4.3.4 DG_NSS3 Max Value Position Calculation

Table 4- 9 DG_NSS3 Max Value Position Calculation

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1[10 ^{^(G/10)}]	10 ^{^(-2.48/10)}	10 ^{^(-1.38/10)}	10 ^{^(-2.06/10)}	10 ^{^(-2.63/10)}
Ant2[10 ^{^(G/10)}]	10 ^{^(5.10/10)}	10 ^{^(5.24/10)}	10 ^{^(3.28/10)}	10 ^{^(4.34/10)}
Ant3[10 ^{^(G/10)}]	10 ^{^(0.36/10)}	10 ^{^(-1.10/10)}	10 ^{^(2.14/10)}	10 ^{^(1.64/10)}
Ant1[10 ^{^(G/10)}] value	0.5649	0.7278	0.6223	0.5458
Ant2[10 ^{^(G/10)}] value	3.2359	3.3420	2.1281	2.7164
Ant3[10 ^{^(G/10)}] value	1.0864	0.7762	1.6368	1.4588
Sum of Ants Value(Antmax)	4.8872	4.8460	4.3872	4.7210
DG[10*Log(Antmax/Nant)] (dBi)	2.12	2.08	1.65	1.97

4.4 5G_Ant1, Ant2 and Ant4

4.4.1 DG_1SS Max Value Position

Table 4- 10 DG_1SS Max Value Position

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1(dBi)	-1.86	-0.83	2.12	-1.18
Ant2(dBi)	1.90	3.88	2.33	4.45

Ant4(dBi)	3.82	1.13	1.25	2.22
Polarization	Linear	Linear	Linear	Linear
Φ (°)	345	345	180	330
θ (°)	75	75	90	90

4.4.2 DG_1SS Max Value Position Calculation

Table 4- 11 DG_1SS Max Value Position Calculation

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1[10^{^(G/20)}]	10 ^{^(-1.86/20)}	10 ^{^(-0.83/20)}	10 ^{^(2.12/20)}	10 ^{^(-1.18/20)}
Ant2[10^{^(G/20)}]	10 ^{^(1.90/20)}	10 ^{^(3.88/20)}	10 ^{^(2.33/20)}	10 ^{^(4.45/20)}
Ant4[10^{^(G/20)}]	10 ^{^(3.82/20)}	10 ^{^(1.13/20)}	10 ^{^(1.25/20)}	10 ^{^(2.22/20)}
Ant1 [10^{^(G/20)}] value	0.8072	0.9089	1.2764	0.8730
Ant2 [10^{^(G/20)}] value	1.2445	1.5631	1.3077	1.6692
Ant4 [10^{^(G/20)}] value	1.5524	1.1389	1.1548	1.2912
Sum of Ants Value(Antmax)	3.6041	3.6109	3.7389	3.8334
DG[10*Log(Antmax²/Nant)] (dBi)	6.36	6.38	6.68	6.90

4.4.3 DG_NSS3 Max Value Position

Table 4- 12 DG_NSS3 Max Value Position

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1(dBi)	-2.48	-0.83	-1.89	-2.34
Ant2(dBi)	5.10	3.88	1.57	2.82
Ant4(dBi)	0.43	1.13	4.75	4.48
Polarization	Linear	Linear	Linear	Linear
Φ (°)	330	345	345	345
θ (°)	75	75	90	90

4.4.4 DG_NSS3 Max Value Position Calculation

Table 4- 13 DG_NSS3 Max Value Position Calculation

Frequency(GHz)	5.15~5.25	5.25~5.35	5.47~5.725	5.725~5.925
Ant1[10^{^(G/10)}]	10 ^{^(-2.48/10)}	10 ^{^(-0.83/10)}	10 ^{^(-1.89/10)}	10 ^{^(-2.34/10)}
Ant2[10^{^(G/10)}]	10 ^{^(5.10/10)}	10 ^{^(3.88/10)}	10 ^{^(1.57/10)}	10 ^{^(2.82/10)}
Ant4[10^{^(G/10)}]	10 ^{^(0.43/10)}	10 ^{^(1.13/10)}	10 ^{^(4.75/10)}	10 ^{^(4.48/10)}
Ant1 [10^{^(G/10)}] value	0.5649	0.8260	0.6471	0.5834
Ant2 [10^{^(G/10)}] value	3.2359	2.4434	1.4355	1.9143
Ant4 [10^{^(G/10)}] value	1.1041	1.2972	2.9854	2.8054

Sum of Ants Value(Antmax)	4.9049	4.5666	5.0680	5.3031
DG[10*Log(Antmax/Nant)] (dBi)	2.14	1.82	2.28	2.47

4.5 6G_Ant5, Ant6, Ant7 and Ant8

4.5.1 DG_1SS Max Value Position

Table 4- 14 DG_1SS Max Value Position

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant1(dBi)	2.22	6.51	5.74	7.40
Ant2(dBi)	-6.36	-13.21	-8.28	-7.01
Ant3(dBi)	-7.53	-6.31	-11.10	-12.24
Ant4(dBi)	6.17	2.84	4.16	1.10
Polarization	Theta	Theta	Theta	Theta
Φ (°)	195	195	195	210
θ (°)	105	90	105	105

4.5.2 DG_1SS Max Value Position Calculation

Table 4- 15 DG_1SS Max Value Position Calculation

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant1[10^(G/20)]	$10^{(2.22/20)}$	$10^{(6.51/20)}$	$10^{(5.74/20)}$	$10^{(7.40/20)}$
Ant2[10^(G/20)]	$10^{(-6.36/20)}$	$10^{(-13.21/20)}$	$10^{(-8.28/20)}$	$10^{(-7.01/20)}$
Ant3[10^(G/20)]	$10^{(-7.53/20)}$	$10^{(-6.31/20)}$	$10^{(-11.10/20)}$	$10^{(-12.24/20)}$
Ant4[10^(G/20)]	$10^{(6.17/20)}$	$10^{(2.84/20)}$	$10^{(4.16/20)}$	$10^{(1.10/20)}$
Ant1 [10^(G/20)] value	1.2912	2.1159	1.9364	2.3442
Ant2 [10^(G/20)] value	0.4808	0.2185	0.3855	0.4462
Ant3 [10^(G/20)] value	0.4202	0.4836	0.2786	0.2443
Ant4 [10^(G/20)] value	2.0347	1.3868	1.6144	1.1350
Sum of Ants Value(Antmax)	4.2269	4.2048	4.2149	4.1697
DG[10*Log(Antmax^2/Nant)] (dBi)	6.50	6.45	6.48	6.38

4.5.3 DG_NSS4 Max Value Position

Table 4- 16 DG_NSS4 Max Value Position

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant1(dBi)	7.84	7.85	7.59	7.40
Ant2(dBi)	-8.54	-9.50	-7.94	-7.01
Ant3(dBi)	-16.60	-8.82	-12.52	-12.24

Ant4(dBi)	-0.63	-2.01	0.55	1.10
Polarization	Theta	Theta	Theta	Theta
Φ (°)	210	210	210	210
θ (°)	90	90	105	105

4.5.4 DG_NSS4 Value Position Calculation

Table 4- 17 DG_NSS4 Max Value Position Calculation

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant1[10^{^(G/10)}]	10 ^{^(7.84/10)}	10 ^{^(7.85/10)}	10 ^{^(7.59/10)}	10 ^{^(7.40/10)}
Ant2[10^{^(G/10)}]	10 ^{^(-8.54/10)}	10 ^{^(-9.50/10)}	10 ^{^(-7.94/10)}	10 ^{^(-7.01/10)}
Ant3[10^{^(G/10)}]	10 ^{^(-16.60/10)}	10 ^{^(-8.82/10)}	10 ^{^(-12.52/10)}	10 ^{^(-12.24/10)}
Ant4[10^{^(G/10)}]	10 ^{^(-0.63/10)}	10 ^{^(-2.01/10)}	10 ^{^(0.55/10)}	10 ^{^(1.10/10)}
Ant1[10^{^(G/10)}] value	6.0814	6.0954	5.7412	5.4954
Ant2[10^{^(G/10)}] value	0.1400	0.1122	0.1607	0.1991
Ant3[10^{^(G/10)}] value	0.0219	0.1313	0.0560	0.0597
Ant4[10^{^(G/10)}] value	0.8650	0.6295	1.1350	1.2882
Sum of Ants Value(Antmax)	7.1083	6.9684	7.0929	7.0424
DG[10*Log₁₀(Antmax/Nant)] (dBi)	2.50	2.41	2.49	2.46

4.6 6G_Ant6, Ant7, Ant9 and Ant10

4.6.1 DG_1SS Max Value Position

Table 4- 18 DG_1SS Max Value Position

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant2(dBi)	-5.25	7.04	0.49	5.42
Ant3(dBi)	6.05	-3.30	4.19	-0.06
Ant5(dBi)	-1.27	-6.28	-5.01	-7.03
Ant6(dBi)	-1.87	-1.95	-0.13	-1.07
Polarization	Linear	Linear	Linear	Linear
Φ (°)	15	300	0	330
θ (°)	105	105	105	90

4.6.2 DG_1SS Max Value Position Calculation

Table 4- 19 DG_1SS Max Value Position Calculation

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant2[10^{^(G/20)}]	10 ^{^(-5.25/20)}	10 ^{^(7.04/20)}	10 ^{^(0.49/20)}	10 ^{^(5.42/20)}

Ant3[10^{^(G/20)}]	10 ^{^(6.05/20)}	10 ^{^(-3.30/20)}	10 ^{^(4.19/20)}	10 ^{^(-0.06/20)}
Ant5[10^{^(G/20)}]	10 ^{^(-1.27/20)}	10 ^{^(-6.28/20)}	10 ^{^(-5.01/20)}	10 ^{^(-7.03/20)}
Ant6[10^{^(G/20)}]	10 ^{^(-1.87/20)}	10 ^{^(-1.95/20)}	10 ^{^(-0.13/20)}	10 ^{^(-1.07/20)}
Ant2[10^{^(G/20)}] value	0.5464	2.2491	1.0580	1.8664
Ant3[10^{^(G/20)}] value	2.0068	0.6839	1.6199	0.9931
Ant5[10^{^(G/20)}] value	0.8640	0.4853	0.5617	0.4451
Ant6[10^{^(G/20)}] value	0.8063	0.7989	0.9851	0.8841
Sum of Ants Value(Antmax)	4.2235	4.2172	4.2247	4.1887
DG[10*Log(Antmax²/Nant)] (dBi)	6.49	6.48	6.50	6.42

4.6.3 DG_NSS4 Max Value Position

Table 4- 20 DG_NSS4 Max Value Position

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant2(dBi)	6.65	7.04	-1.04	1.87
Ant3(dBi)	-2.39	-3.30	6.24	6.34
Ant5(dBi)	-7.43	-6.28	-3.74	-9.49
Ant6(dBi)	-2.19	-1.95	-5.69	-5.60
Polarization	Linear	Linear	Linear	Linear
Φ (°)	315	300	30	0
θ (°)	105	105	105	75

4.6.4 DG_NSS4 Value Position Calculation

Table 4- 21 DG_NSS4 Max Value Position Calculation

Frequency(GHz)	5.925~6.425	6.425~6.525	6.525~6.875	6.875~7.125
Ant2[10^{^(G/10)}]	10 ^{^(6.65/10)}	10 ^{^(7.04/10)}	10 ^{^(-1.04/10)}	10 ^{^(1.87/10)}
Ant3[10^{^(G/10)}]	10 ^{^(-2.39/10)}	10 ^{^(-3.30/10)}	10 ^{^(6.24/10)}	10 ^{^(6.34/10)}
Ant5[10^{^(G/10)}]	10 ^{^(-7.43/10)}	10 ^{^(-6.28/10)}	10 ^{^(-3.74/10)}	10 ^{^(-9.49/10)}
Ant6[10^{^(G/10)}]	10 ^{^(-2.19/10)}	10 ^{^(-1.95/10)}	10 ^{^(-5.69/10)}	10 ^{^(-5.60/10)}
Ant2[10^{^(G/10)}] value	4.6238	5.0582	0.7870	1.5382
Ant3[10^{^(G/10)}] value	0.5768	0.4677	4.2073	4.3053
Ant5[10^{^(G/10)}] value	0.1807	0.2355	0.4227	0.1125
Ant6[10^{^(G/10)}] value	0.6039	0.6383	0.2698	0.2754
Sum of Ants Value(Antmax)	5.9852	6.3997	5.6868	6.2314
DG[10*Log₁₀(Antmax/Nant)] (dBi)	1.75	2.04	1.53	1.93

5 Test and Calculate Result

5.1 Peak Antenna Gain (Single)

Table 5- 1 Antenna Test Result

Frequency Band(MHz)	Ant1	Ant2	Ant3	Ant4
2400-2500	4.22	4.61	\	\
5150-5250	4.42	5.10	3.44	3.82
5250-5350	4.47	5.24	3.93	3.67
5470-5725	4.51	4.85	5.61	4.75
5725-5925	4.43	4.86	6.06	4.58

Table 5- 2Antenna Test Result

Frequency Band(MHz)	Ant5	Ant6	Ant7	Ant8	Ant9	Ant10
5925-6425	8.72	8.44	7.44	6.26	4.62	4.98
6425-6525	7.83	6.76	5.91	5.75	4.36	4.53
6525-6875	8.01	7.82	6.24	5.93	5.06	4.67
6875-7125	7.78	7.79	7.44	5.33	5.32	5.01

5.2 DG_1SS Calculate Result

5.2.1 2.4G

Table 5- 3 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
2400-2450	5.45dBi	Theta/180/75

5.2.2 5G_Ant1, Ant2 and Ant3

Table 5- 4 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
5150-5250	6.41dBi	Linear/150/90
5250-5350	6.32dBi	Linear/120/75
5470-5725	6.29dBi	Linear/120/75
5725-5925	6.49dBi	Linear/120/75

5.2.3 5G_Ant1, Ant2 and Ant4

Table 5- 5 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
5150-5250	6.36dBi	Linear/345/75
5250-5350	6.38dBi	Linear/345/75
5470-5725	6.68dBi	Linear/180/90
5725-5925	6.90dBi	Linear/330/90

5.2.4 6G_Ant5, Ant6, Ant7 and Ant8

Table 5- 6 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
5925-6425	6.50dBi	Theta/195/105
6425-6525	6.45dBi	Theta/195/90
6525-6875	6.48dBi	Theta/195/105
6875-7125	6.38dBi	Theta/210/105

5.2.5 6G_Ant6, Ant7, Ant9 and Ant10

Table 5- 7 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
5925-6425	6.49dBi	Linear/15/105
6425-6525	6.48dBi	Linear/300/105
6525-6875	6.50dBi	Linear/0/105
6875-7125	6.42dBi	Linear/330/90

5.3 2G DG_NSS2 Calculate Result

Table 5- 8 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
2400-2450	2.49dBi	Theta/180/75

5.4 5G DG_NSS3 Calculate Result

5.4.1 5G_Ant1, Ant2 and Ant3

Table 5- 9 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
5150-5250	2.12dBi	Linear/330/75

5250-5350	2.08dBi	Linear/330/75
5470-5725	1.65dBi	Linear/330/75
5725-5925	1.97dBi	Linear/330/75

5.4.2 5G_Ant1, Ant2 and Ant4

Table 5- 10 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
5150-5250	2.14dBi	Linear/330/75
5250-5350	1.82dBi	Linear/345/75
5470-5725	2.28dBi	Linear/345/90
5725-5925	2.47dBi	Linear/345/90

5.5 6G DG_NSS4 Calculate Result

5.5.1 6G_Ant5, Ant6, Ant7 and Ant8

Table 5- 11 Test & Calculate Result

Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
5925-6425	2.50dBi	Theta/210/90
6425-6525	2.41dBi	Theta/210/90
6525-6875	2.49dBi	Theta/210/105
6875-7125	2.46dBi	Theta/210/105

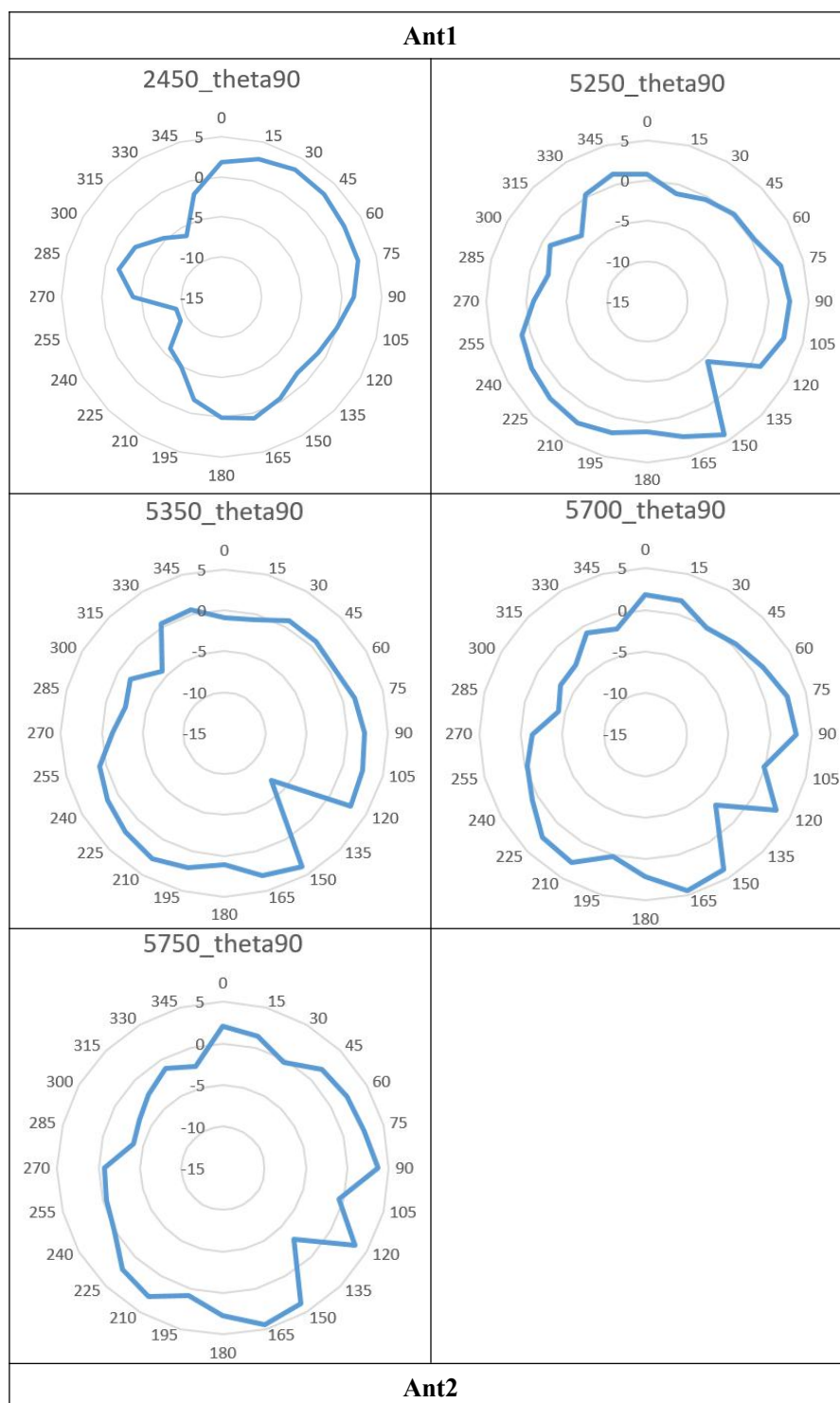
5.5.2 6G_Ant6, Ant7, Ant9 and Ant10

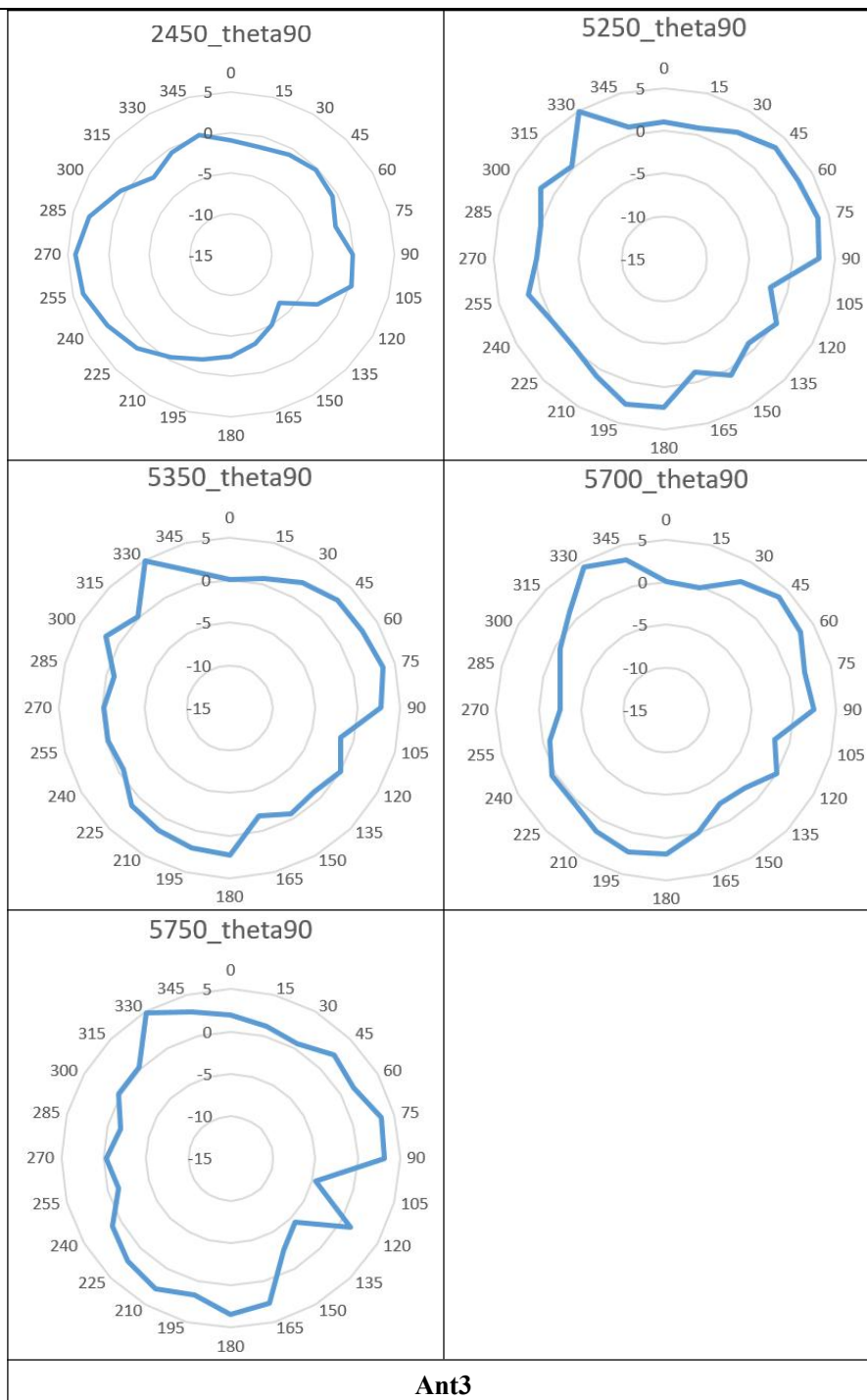
Table 5- 12 Test & Calculate Result

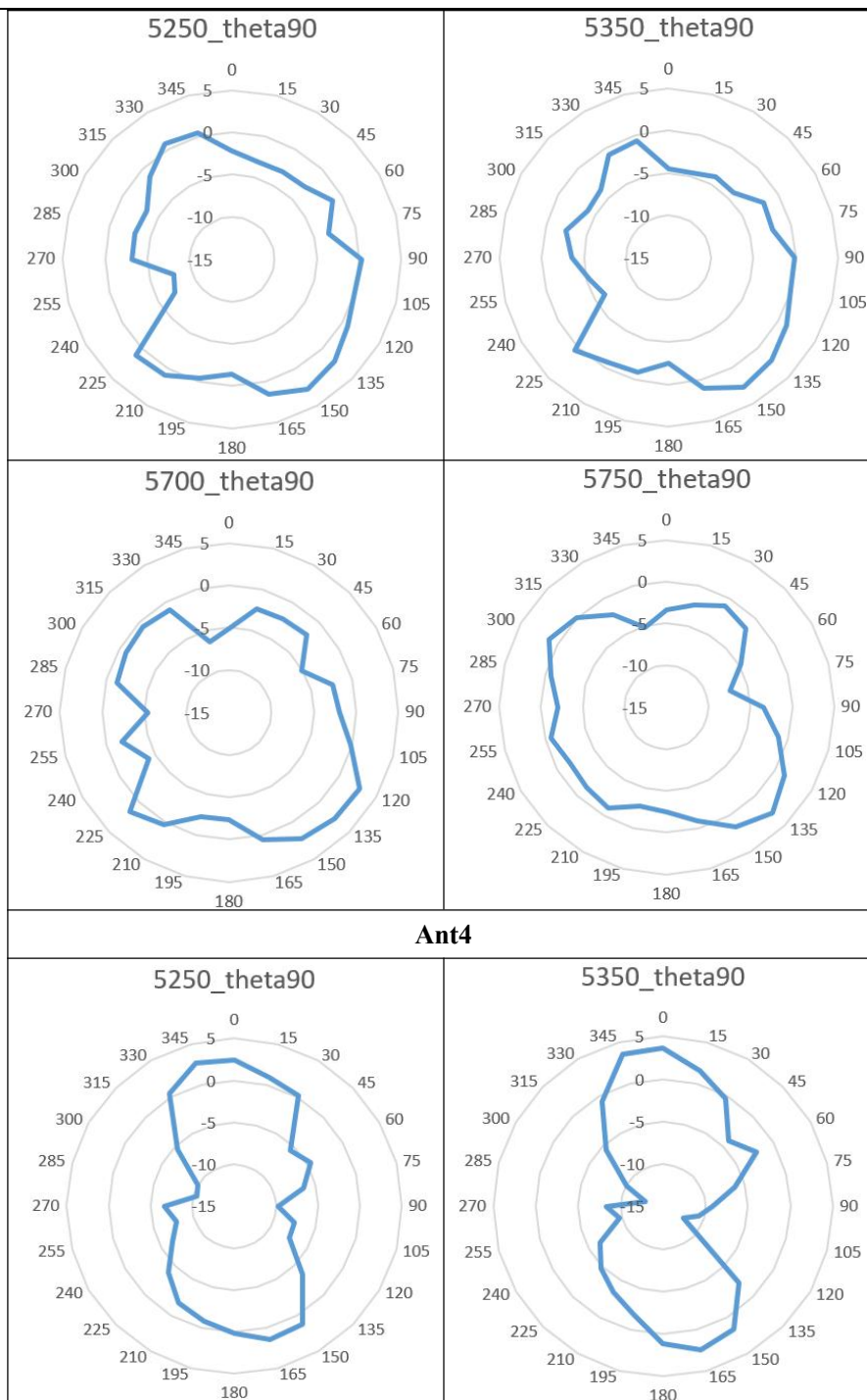
Frequency Band(MHz)	Max Directional Gain	Polarization/ Φ (°) / θ (°)
5925-6425	1.75dBi	Linear/315/105
6425-6525	2.04dBi	Linear/300/105
6525-6875	1.53dBi	Linear/30/105
6875-7125	1.93dBi	Linear/0/75

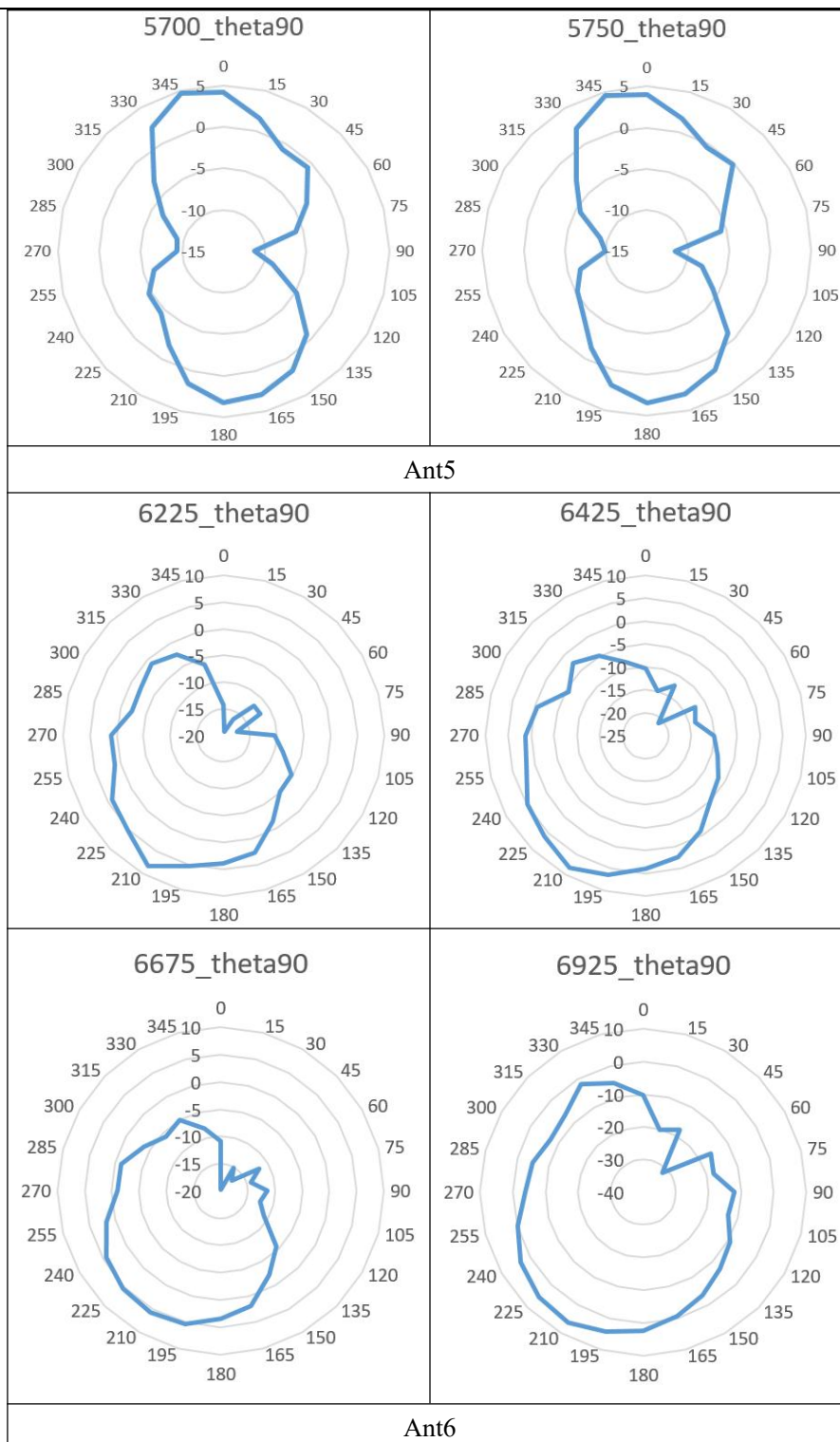
6 Test Pattern

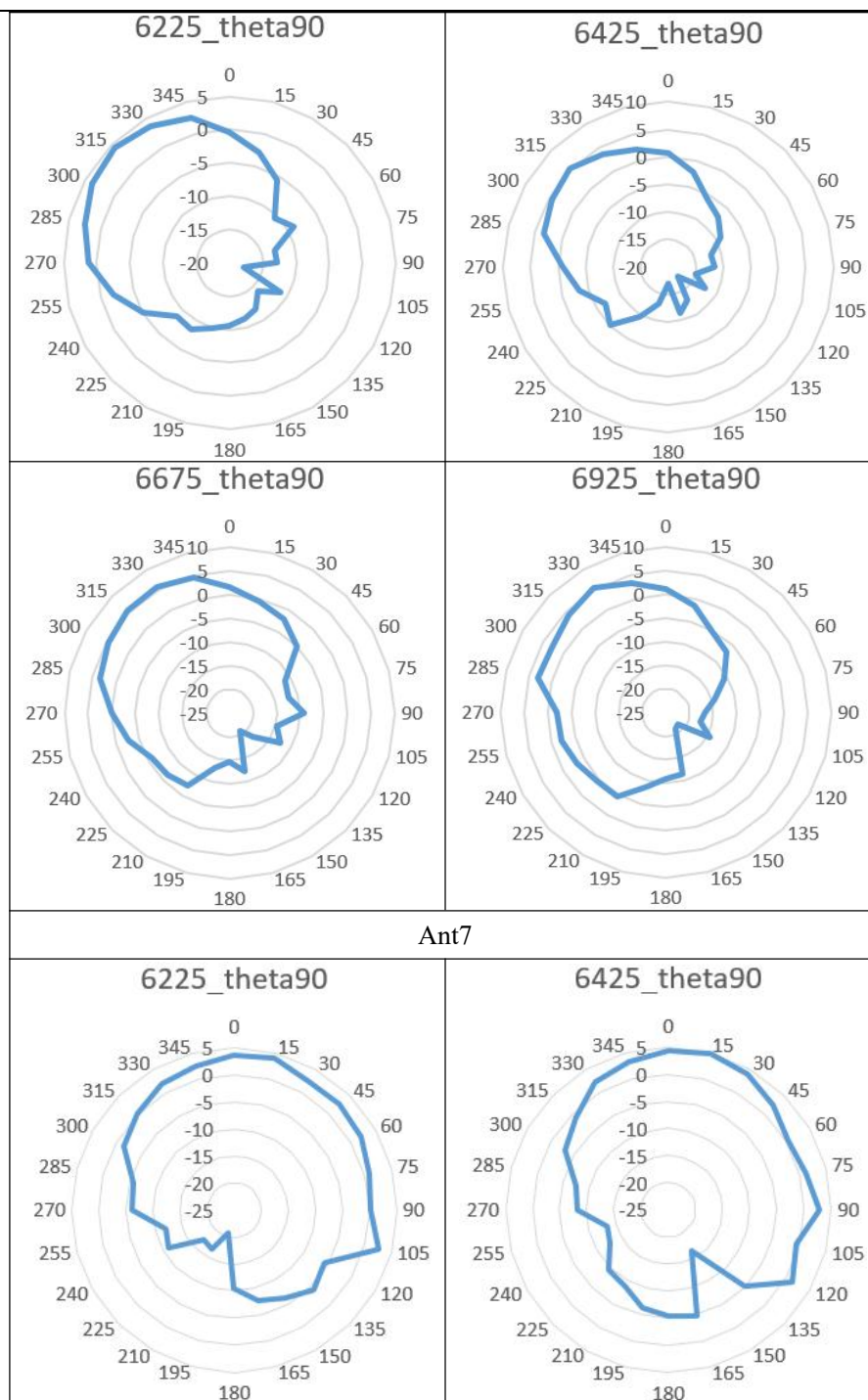
6.1 Antenna Pattern

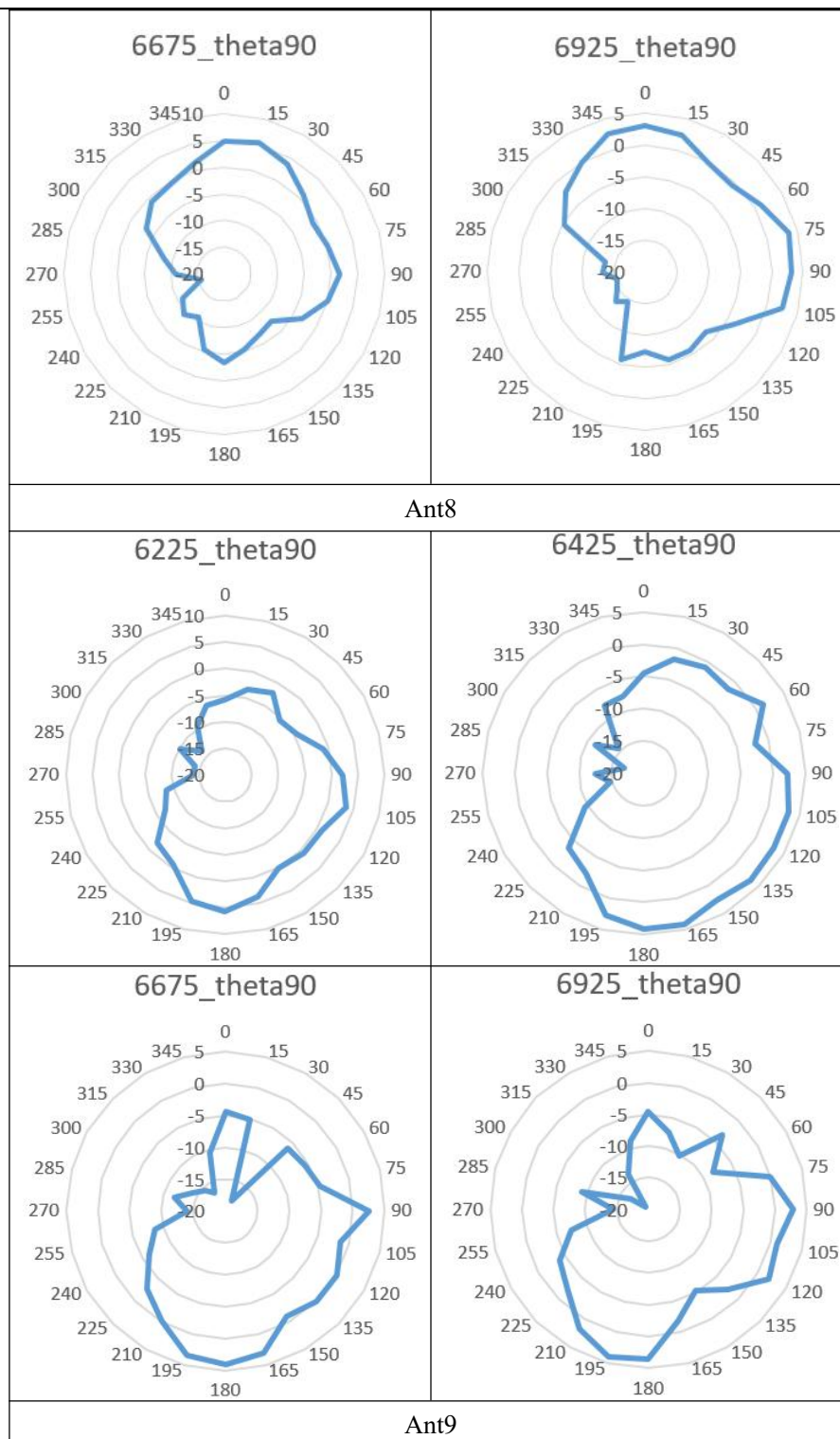


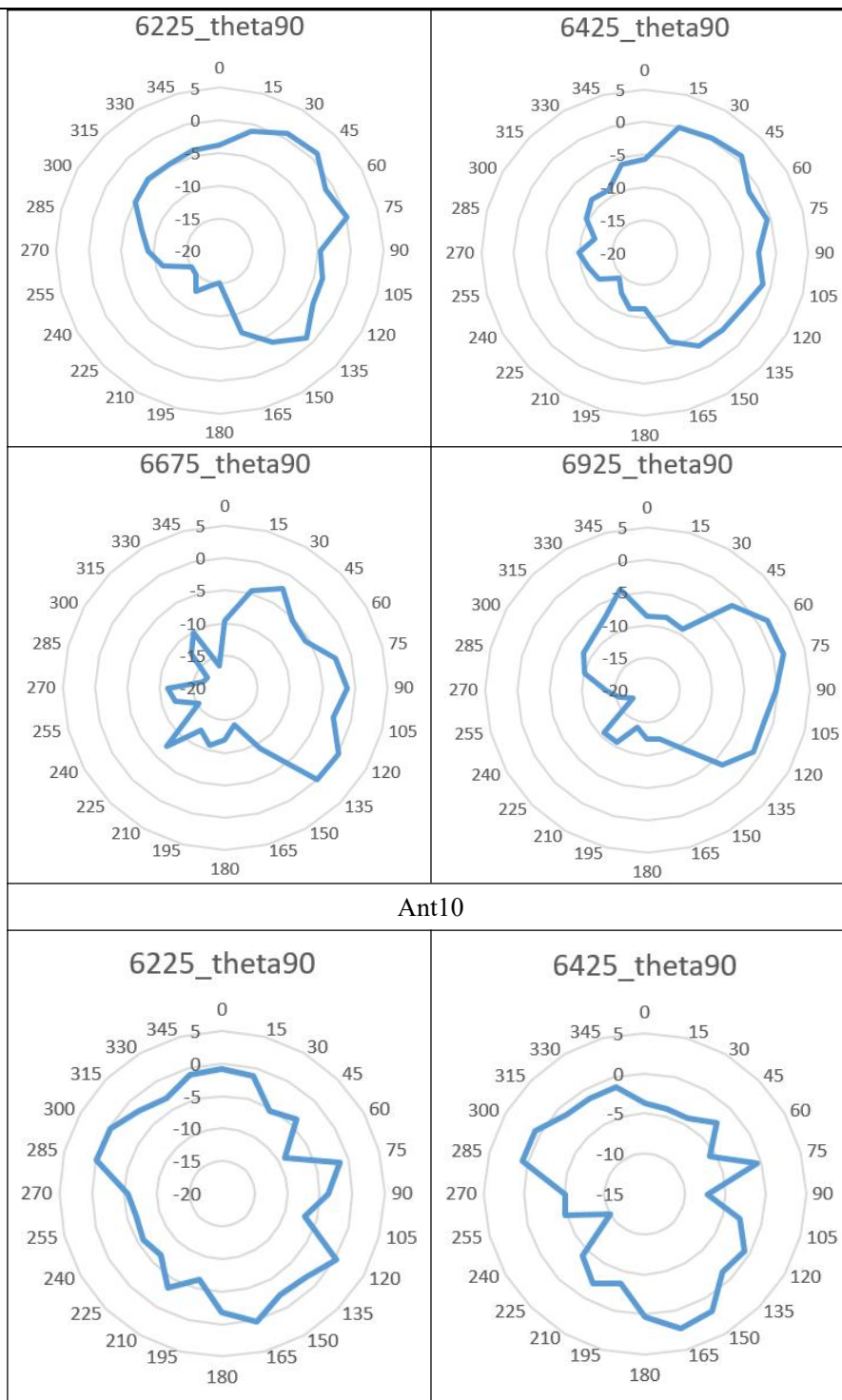


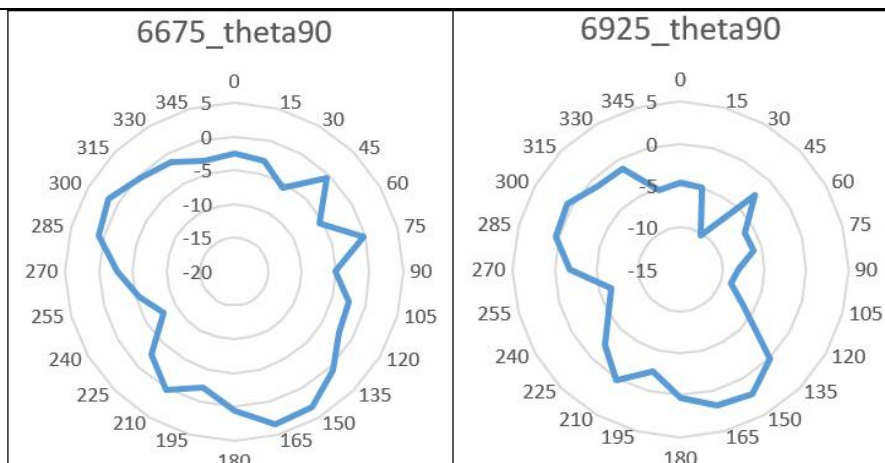












7 Test Pattern

7.1 DG_1SS Test Data

Ant1													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.52	-17.92	-6.42	-0.76	1.61	3.44	2.68	0.95	-2.45	-5.8	-5.01	-7.44	-11.02
15	-12.4	-16.67	-5.16	-0.26	1.49	3.69	3.49	2.65	-0.82	-4.03	-4.9	-6.97	-11.02
30	-12.47	-15.74	-4.79	-0.39	0.71	3.7	3.63	2.85	0	-2.3	-5.42	-7.22	-11.02
45	-12.54	-15.39	-5.44	-0.95	0.72	3.26	3.18	2.81	0.69	-1.08	-5.31	-7.63	-11.02
60	-12.61	-16.86	-6.83	-2.02	0.29	3.2	2.92	2.98	0.73	-1.16	-5.49	-6.92	-11.02
75	-12.39	-20.13	-8.5	-2.99	0.28	2.67	2.71	2.07	-0.84	-1.97	-7.04	-6.66	-11.02
90	-12.11	-21.09	-9.46	-2.89	0.3	2.3	1.69	0.27	-2.94	-4.75	-8.78	-7.39	-11.02
105	-12.01	-16.71	-8.53	-1.85	0.19	1.78	0.07	-1.77	-3.98	-4.73	-9.31	-6.33	-11.02
120	-12.12	-13.03	-6.39	-0.8	0.24	0.76	-0.96	-2.42	-2.28	-2.42	-5.77	-6.4	-11.02
135	-12.45	-10.49	-4.6	-0.04	0.13	0.52	-1.07	-0.74	-0.9	-1.51	-5.37	-6.83	-11.02
150	-12.75	-9.09	-3.6	-0.12	-0.54	1.31	0.57	0.4	-0.44	-2.16	-6.3	-4.23	-11.02
165	-12.93	-8.62	-3.63	-1.09	-1.01	1.77	1.58	0.57	-2.02	-4.97	-6.53	-5.83	-11.02
180	-13.11	-8.54	-3.78	-1.65	-2.27	1.4	1.14	-0.47	-6.55	-8.99	-8.73	-9.75	-11.02
195	-13.64	-8.57	-3.81	-2.13	-3.49	-1.35	-1.24	-2.13	-6.64	-5.58	-9.23	-11.02	-11.02
210	-13.7	-8.51	-4.58	-2.67	-4.14	-4.54	-6.09	-2.36	-3.03	-3.66	-7.1	-8.51	-11.02
225	-13.78	-8.51	-5.94	-2.95	-3.16	-7.62	-7.73	-1.67	-2.28	-2.11	-6.42	-7.33	-11.02
240	-13.57	-8.7	-7.04	-3.2	-3.23	-5.97	-11.08	-2.81	-2.39	-3.62	-7.88	-7.54	-11.02
255	-13.49	-9.25	-7.19	-3.72	-3.04	-4.3	-9.08	-5.16	-4.12	-5.07	-8.42	-7.38	-11.02
270	-13.64	-9.98	-7.03	-4.09	-2.9	-3.17	-3.89	-5.33	-5.82	-3.87	-6.68	-5.99	-11.02
285	-14.21	-10.87	-7.36	-4.34	-3.79	-2.25	-2.04	-4.99	-4.86	-4.47	-6.54	-5.04	-11.02
300	-14.21	-12.38	-7.87	-5.14	-5.05	-4.01	-3.07	-4.36	-6.35	-7.18	-9.01	-5.37	-11.02
315	-13.9	-14.44	-8.37	-5.74	-4.53	-6.73	-5.91	-7.17	-10.37	-8.93	-10.6	-6.49	-11.02
330	-13.4	-16.94	-8.87	-3.69	-1.71	-1.56	-5.74	-6.3	-11.24	-9.64	-8.4	-7.79	-11.02

345	-12.89	-18.13	-8.24	-1.87	0.78	2.11	-0.43	-1.7	-6.49	-7.07	-5.97	-8.23	-11.02
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Ant2													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.3	-5.99	-5.74	-4.15	-2.6	-1.53	-1.4	-4.93	-5.16	-3.34	-8.69	-5.1	-19.34
15	-6.44	-5.21	-6.38	-4.63	-3.38	-1.62	-1.42	-2.02	-2.57	-3.19	-9.53	-5.8	-19.34
30	-6.6	-4.73	-6.91	-5.13	-4.54	-2.99	-1.32	-0.64	-1.63	-2.86	-9.39	-6.16	-19.34
45	-6.81	-4.64	-5.97	-5.38	-5.01	-5.15	-1.07	-1.18	-2.82	-2.96	-7.21	-5.78	-19.34
60	-6.88	-4.79	-4.14	-3.96	-3.51	-4.81	-1.99	-1.47	-3.54	-3.98	-5	-5.53	-19.34
75	-6.9	-5.11	-3.07	-2.04	-1.48	-1.35	-1.42	-0.92	-2.17	-4.89	-4.75	-5.96	-19.34
90	-7.02	-5.52	-2.86	-1.18	-0.88	0.54	-0.7	0.25	-1.38	-3.47	-6.44	-6.94	-19.34
105	-7.24	-6.12	-3.23	-1.59	-1.8	-0.04	-2.07	-0.72	-0.66	-3.83	-7.71	-8.4	-19.34
120	-7.25	-6.82	-4.18	-2.51	-2.6	-2.03	-5.33	-4.07	-1.81	-4.6	-7.57	-11.23	-19.34
135	-7.15	-7.79	-5.38	-2.54	-1	-1.39	-5.67	-7.23	-5.89	-4.99	-7.69	-10.75	-19.34
150	-6.92	-8.72	-6.02	-1.22	0.81	0.85	-2.89	-3.33	-13.52	-5.29	-7.87	-8.95	-19.34
165	-6.74	-9.51	-5.84	0.07	1.98	2.13	-0.69	-1.31	-9.33	-7.62	-8.47	-10.7	-19.34
180	-6.78	-10.22	-5.21	0.45	2.42	3.36	0.56	-0.45	-5.52	-9.33	-10.54	-14.73	-19.34
195	-6.95	-10.98	-5.36	0.13	2.49	3.96	1.45	-0.44	-4.33	-9.33	-11.16	-19.34	-19.34
210	-6.92	-12.02	-6.53	-0.46	1.84	3.59	1.83	1.07	-4.21	-10.39	-12.83	-18.19	-19.34
225	-6.69	-13.61	-7.75	-1.21	0.55	2.86	3.17	1.52	-4.31	-12.31	-12.41	-15.26	-19.34
240	-6.5	-15.15	-7.76	-1.85	0.14	3.19	2.99	2.51	-3.81	-13.29	-10.99	-13.01	-19.34
255	-6.14	-14.85	-7.24	-1.94	1.02	2.67	4.05	2.21	-5.32	-8.77	-10.82	-11.36	-19.34
270	-6.1	-13	-6.64	-0.94	1.53	3.87	3.54	1.68	-3.89	-5.89	-12.14	-10.62	-19.34
285	-6.21	-11.26	-5.62	-0.1	2.07	3.82	3.32	1.42	-2.81	-3.84	-12.46	-10.19	-19.34
300	-6.32	-9.92	-4.59	-0.18	1.44	2.61	2.07	-0.86	-1.28	-2.71	-10.19	-8.85	-19.34
315	-6.38	-8.85	-4.2	-1.31	-0.75	-0.23	-1.21	-1.92	-3.14	-4.28	-8.84	-7.25	-19.34
330	-6.46	-7.9	-4.68	-3.08	-3.88	-2.99	-2.7	-3.5	-7.15	-6.64	-8.13	-5.85	-19.34
345	-6.28	-6.89	-5.34	-4.29	-4.07	-1.99	-1.83	-5.69	-8.74	-5.57	-8.23	-5.07	-19.34

2450MHz Composite Gain													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.85	-7.04	-3.06	0.72	2.77	4.32	3.89	1.51	-0.69	-1.47	-3.65	-3.18	-11.21
15	-5.91	-6.16	-2.74	0.84	2.40	4.44	4.39	3.64	1.36	-0.59	-3.90	-3.36	-11.21
30	-6.04	-5.59	-2.78	0.57	1.49	3.99	4.51	4.29	2.23	0.43	-4.17	-3.66	-11.21
45	-6.20	-5.44	-2.69	0.12	1.33	3.05	4.32	4.05	2.12	1.04	-3.20	-3.65	-11.21
60	-6.27	-5.87	-2.37	0.07	1.61	3.10	3.82	4.05	1.87	0.55	-2.23	-3.19	-11.21
75	-6.21	-6.70	-2.36	0.51	2.45	3.90	3.90	3.71	1.53	-0.30	-2.81	-3.29	-11.21
90	-6.19	-7.19	-2.54	1.02	2.74	4.47	3.59	3.27	0.89	-1.08	-4.52	-4.15	-11.21
105	-6.29	-6.88	-2.47	1.29	2.26	3.93	2.08	1.78	0.85	-1.26	-5.46	-4.29	-11.21
120	-6.34	-6.37	-2.20	1.40	1.95	2.49	0.14	-0.20	0.97	-0.43	-3.61	-5.47	-11.21
135	-6.39	-6.03	-1.97	1.81	2.59	2.63	-0.06	-0.38	-0.03	-0.07	-3.44	-5.56	-11.21

150	-6.34	-5.89	-1.72	2.36	3.17	4.09	2.02	1.74	-1.71	-0.57	-4.04	-3.26	-11.21
165	-6.28	-6.04	-1.65	2.52	3.62	4.96	3.53	2.69	-1.92	-3.18	-4.44	-4.92	-11.21
180	-6.37	-6.33	-1.46	2.47	3.40	5.45	3.87	2.55	-3.01	-6.15	-6.58	-8.88	-11.21
195	-6.66	-6.68	-1.54	2.08	3.02	4.71	3.22	1.77	-2.40	-4.24	-7.13	-11.21	-11.21
210	-6.65	-7.08	-2.49	1.52	2.37	3.45	1.75	2.53	-0.59	-3.38	-6.49	-9.06	-11.21
225	-6.52	-7.68	-3.79	0.97	1.90	2.12	2.34	3.08	-0.23	-2.78	-5.90	-7.41	-11.21
240	-6.32	-8.33	-4.38	0.51	1.63	2.78	1.55	3.26	-0.06	-4.16	-6.29	-6.84	-11.21
255	-6.05	-8.60	-4.20	0.23	2.24	2.88	2.77	2.29	-1.69	-3.71	-6.53	-6.13	-11.21
270	-6.07	-8.35	-3.82	0.64	2.60	4.05	3.61	1.87	-1.79	-1.81	-5.98	-4.99	-11.21
285	-6.31	-8.05	-3.44	1.05	2.64	4.32	4.06	1.80	-0.76	-1.14	-5.99	-4.23	-11.21
300	-6.39	-8.05	-3.07	0.70	1.80	2.93	2.89	0.58	-0.44	-1.65	-6.57	-3.93	-11.21
315	-6.34	-8.19	-3.03	-0.24	0.57	0.12	-0.24	-1.14	-3.01	-3.29	-6.67	-3.85	-11.21
330	-6.24	-8.28	-3.51	-0.37	0.28	0.76	-1.08	-1.78	-5.95	-5.00	-5.25	-3.76	-11.21
345	-5.96	-7.80	-3.66	0.01	1.70	3.31	1.91	-0.46	-4.53	-3.28	-4.02	-3.50	-11.21

Ant1													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.85	-8.21	-5.61	-2.34	-3.38	-1.62	0.84	-0.59	-3.05	-7.95	-9.19	-13.82	-25.7
15	-10.3	-7.33	-5.56	-3.5	-6.05	-2.85	-1.13	-0.69	-2.39	-6.99	-6.37	-14.53	-25.7
30	-10.89	-6.28	-5.81	-3.58	-3.79	-1.23	-0.45	-0.81	-3.99	-4.59	-4.34	-13.36	-25.7
45	-10.83	-5.51	-4.8	-2.5	-2.07	-1.36	0.24	-2.07	-5.31	-3.05	-4.59	-12.03	-25.7
60	-11.04	-5.01	-3.35	-0.09	-1.14	-0.17	0.37	-2.11	-4.26	-3.32	-6.15	-11.53	-25.7
75	-11.23	-4.91	-2.85	0.98	-0.19	2.46	2.14	-0.51	-3.68	-4.68	-9.33	-12.05	-25.7
90	-11.19	-5.22	-3.51	-0.06	-1.45	2.25	1.61	-0.2	-6.66	-11.19	-16.13	-13.91	-25.7
105	-11.25	-5.94	-4.67	0.14	-0.18	3.21	2.53	-4.84	-9.34	-12.6	-13.44	-18.32	-25.7
120	-11.11	-6.98	-4.71	1.47	1.96	4.42	1.23	-5.98	-7.41	-8.26	-7.39	-13.02	-25.7
135	-10.55	-8.16	-6.26	-0.71	-2.04	-2.37	-4.47	-4.25	-5.72	-3.22	-6.91	-11.31	-25.7
150	-10.51	-9.51	-9.56	-4.52	-2.67	0.39	3.09	1.35	-0.71	-0.47	-6.58	-11.65	-25.7
165	-10.55	-11.52	-10.63	-4.82	-1.08	0.48	2.4	-1.28	-3.59	-1.49	-5.01	-12.9	-25.7
180	-10.51	-13.81	-8.12	-4.16	-1.12	2.03	1.25	-1.2	-6.13	-4.37	-6.65	-16.68	-25.7
195	-10.41	-14.78	-7.52	-4.54	-2.58	1.86	1.84	-2.2	-8.02	-11.6	-10.83	-25.7	-25.7
210	-10.2	-15.93	-7.95	-5.12	-2.84	1.76	2.39	-2.14	-5.38	-9.84	-11.46	-15.46	-25.7
225	-9.78	-16.72	-8.13	-5.35	-2.15	1.06	2.03	-0.76	-5.76	-8.75	-12.92	-13.11	-25.7
240	-9.4	-15.68	-7.57	-5.63	-1.7	1.33	1.52	-0.88	-7.47	-10.82	-15.18	-12.3	-25.7
255	-9.11	-13.37	-6.45	-3.92	-1.62	0.64	1.13	0.41	-4.36	-6.5	-11.11	-11.5	-25.7
270	-9.34	-11.44	-5.49	-1.57	-2.64	-1.36	-0.86	-1.85	-6.91	-9.03	-14.63	-14.95	-25.7
285	-9.62	-10.27	-5.54	-0.98	-1.47	-1.66	-2.23	-5.47	-17	-17.42	-23.21	-16.38	-25.7
300	-10.01	-9.72	-6.9	-1.97	-0.89	0.08	-1.14	-2.84	-10.49	-9.32	-20.74	-14.27	-25.7
315	-10.02	-9.48	-8.2	-5.66	-3.88	-2.15	-3.53	-4.39	-8.65	-10.22	-14.59	-14.09	-25.7
330	-9.81	-9.25	-7.7	-4.74	-3.31	-2.48	-1.13	-2.29	-4.74	-7.4	-12.89	-12.43	-25.7
345	-9.58	-8.76	-6.12	-2.47	-2.11	-1.86	-0.86	-0.86	-4.41	-7.39	-11.19	-11.76	-25.7

Ant2													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.42	-5.68	-5.79	-2.83	0.18	2.09	1.04	-1.83	-13.66	-15.52	-10.27	-15.05	-18.74
15	-9.54	-5.36	-6.83	-2.53	-1.77	0.98	0.89	-2.69	-10.28	-12.53	-10.93	-18.72	-18.74
30	-9.82	-5.44	-7.04	-5.33	-4.09	1.37	2.12	-0.69	-6.49	-11.93	-11.85	-15.55	-18.74
45	-9.97	-5.62	-7.51	-7.96	-2.65	2.44	3.43	0.94	-5.34	-12.91	-16.75	-12.01	-18.74
60	-9.98	-5.63	-7.69	-5.26	-1.06	2.34	3.19	0.56	-6.24	-14.24	-13.65	-10.24	-18.74
75	-9.91	-5.89	-7.09	-3.77	1.37	3.54	3.66	2.29	-4.06	-10.6	-13.31	-8.65	-18.74
90	-9.84	-6.4	-6.28	-4.27	-0.15	3.03	2.19	1.72	-4.68	-11.12	-17.04	-9.07	-18.74
105	-9.99	-7.06	-4.96	-2.86	-3.41	-2	-2.11	-5.26	-8.1	-9.11	-14.47	-11.04	-18.74
120	-10.22	-7.83	-4.96	-0.74	0.34	0.01	0.21	-3.55	-10.56	-8.77	-11.12	-13.38	-18.74
135	-10.36	-9.29	-5.91	-2.18	-1.27	1.17	-1.01	-5.72	-11.12	-11.22	-11.96	-14.81	-18.74
150	-10.34	-10.97	-5.84	-2.26	-3.09	0.74	0.26	-0.63	-5.59	-6.73	-12.92	-15.07	-18.74
165	-10.32	-12.47	-5.52	-2.11	-1.95	-1.4	-1.28	-1.67	-6.36	-7.31	-12.69	-16.24	-18.74
180	-10.23	-13.04	-6.82	-2.15	-0.21	2.43	2.4	2.06	-3.76	-8.18	-10.14	-14.83	-18.74
195	-10.25	-13.6	-8.59	-2.64	-0.52	2.54	2.63	2.13	-1.73	-6.22	-8.39	-12.76	-18.74
210	-10.31	-13.23	-8.32	-1.21	-1.27	0.16	0.93	-0.22	-3.08	-5.93	-9.19	-11.74	-18.74
225	-10.38	-12.11	-6.51	-0.75	-0.99	-0.78	-0.23	-0.78	-4.59	-6.57	-10.96	-10.25	-18.74
240	-9.86	-11.23	-6.52	-1	-0.76	-0.58	-0.03	0.46	-3.04	-4.91	-8.64	-9.18	-18.74
255	-9.75	-11.73	-6.58	-2.54	-0.43	0.48	1.42	2.35	-0.49	-2.38	-8.53	-9.95	-18.74
270	-9.77	-12.57	-7.14	-3.22	-2.22	0.33	-0.09	0.15	-1.49	-3.53	-7.89	-10.28	-18.74
285	-9.76	-13.16	-7.67	-3.56	-1.11	-0.33	-0.02	-0.2	-1.33	-1.96	-6.15	-11.44	-18.74
300	-9.9	-11.69	-7.08	-4.7	-1.21	0.65	1.67	0.55	-2.85	-5.88	-8.07	-13.11	-18.74
315	-9.99	-9.72	-5.27	-3.62	-2.77	0.59	0.29	-0.52	-4.82	-6.32	-17.83	-13.67	-18.74
330	-9.54	-8.05	-4.16	-1.32	0.98	5.1	4.37	3.03	-3.23	-1.99	-11.11	-15.21	-18.74
345	-9.39	-6.66	-4.86	-2.24	0.19	1.9	1	-2.68	-9.31	-7.13	-8.28	-18.74	-18.74

Ant3													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	1.1	0.74	0.09	2.36	1.07	-1.61	-2.15	-2.25	-4.2	-8.32	-2.18	-0.75	-12.32
15	1.08	0.87	0.58	1.7	0.23	-4.23	-3.05	-3.21	-7.31	-5.67	-4.76	-3.67	-12.32
30	0.95	1.04	-0.3	1.74	0.27	-1.25	-3.09	-3.21	-13.39	-6.54	-8.32	-6.9	-12.32
45	0.85	1.28	0.34	1.49	-0.04	-2.54	-2.93	-3.18	-9.89	-15.2	-10.06	-11.16	-12.32
60	0.75	1.06	1.45	2.26	-0.59	-1.68	-1.26	-1.17	-5.74	-8.6	-13	-12.32	-12.32
75	0.81	0.5	0.67	1.31	-1.56	-5.59	-3.18	-3.21	-9.48	-11.86	-9.91	-9.59	-12.32
90	0.91	0.05	-0.09	-1.06	-2.45	-2.74	0.3	-0.87	-5.7	-10.25	-8.58	-6.87	-12.32
105	0.88	0	0.09	-0.6	-3.63	-0.52	-0.03	-2.12	-10.45	-20.56	-15.43	-6.93	-12.32
120	0.83	-0.39	-0.39	-2.11	-4.19	-2.04	0.82	0.09	-3.47	-9.96	-11.84	-7.9	-12.32
135	0.83	-0.89	-1.94	-3.56	-3.53	3.2	2.13	1.48	-1.98	-6.44	-9.43	-7.42	-12.32

150	0.81	-1.34	-3.68	-4.67	-4.62	2.05	1.33	2.23	-0.49	-3.63	-10.48	-8.32	-12.32
165	0.93	-1.47	-4.42	-3.47	-7.56	-0.99	1.55	2.19	-0.56	-3.53	-10.38	-8.31	-12.32
180	1.07	-1.25	-3.51	-0.82	-6.68	-6.43	-1.41	-1.37	-5.61	-6.76	-5.07	-8.72	-12.32
195	1.13	-1.06	-3.42	0.08	-1.74	-4.93	-0.47	-3.12	-8.32	-4.11	-1.75	-9.41	-12.32
210	1.26	-1.22	-3.39	-1.26	-0.47	-0.67	0.89	-4.83	-5.17	0.44	0.34	-7.12	-12.32
225	1.28	-1.08	-2.27	-0.23	-0.76	-0.69	1.01	-3.49	-1.23	2.13	0.81	-3.49	-12.32
240	1.29	-1.23	-2.5	-0.59	-2.35	-3.85	-7.21	-1.09	1.97	2.76	-0.35	-1.44	-12.32
255	1.22	-1.19	-3.99	-3.2	-4.92	-4.29	-7.93	-4.06	1.98	2.34	0.23	0.6	-12.32
270	1.25	-0.98	-4.17	-3.21	-5.79	-4	-3.19	-4.04	2.73	3.44	-0.33	0.9	-12.32
285	1.32	-0.66	-3.17	-1.5	-3.19	-3.22	-3.13	-0.64	1.36	0.69	-1.65	0.05	-12.32
300	1.37	-0.2	-2	-1.54	-2.04	-1.97	-3.4	-1.06	-1.5	2.5	1.52	-0.09	-12.32
315	1.29	0.15	-1.57	-1.08	0.02	0.04	-1.23	1.29	-2.07	2.74	1.31	0.63	-12.32
330	1.24	0.35	-1.18	0.17	0.75	0.36	0.26	2	-1.09	-2.03	-1.13	0.82	-12.32
345	1.11	0.59	-0.85	1.27	0.54	0.39	0.45	1.81	-6.13	-0.85	-0.75	0.59	-12.32

Ant4													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.64	1.35	0.26	-10.17	0.03	3.53	2.42	0.7	-5.66	-7.64	-4.12	-6.99	-17.88
15	0.76	1.45	-0.85	-17.39	0.23	1.5	0.91	-1.14	-5.49	-6.22	-2.51	-10.73	-17.88
30	0.82	1.3	-1.05	-14.61	-0.91	-0.98	0.29	-3.45	-7.07	-6.03	-2.31	-17.88	-17.88
45	0.86	1.15	-0.31	-7.88	-6.59	-4.24	-5.54	-6.65	-10.67	-8.74	-4.15	-12.02	-17.88
60	0.83	1.07	0.57	-2.45	-9.78	-3.76	-4.52	-10.11	-6.36	-10.01	-3.38	-7.3	-17.88
75	0.76	0.84	1.37	-0.29	-7.82	-7.16	-6.41	-6.17	-4.36	-3.92	-3.82	-5.64	-17.88
90	0.66	0.32	0.6	-0.45	-9.32	-8.81	-9.7	-6.19	-4.15	-4.25	-6.05	-5.49	-17.88
105	0.65	-0.61	-1.58	-1.23	-5.39	-6.43	-7.55	-0.52	-2.25	-2.66	-5.58	-5.47	-17.88
120	0.71	-1.79	-4.01	-1.06	-3.88	-9.87	-7.46	-0.04	-2.36	-2.14	-4.78	-6.1	-17.88
135	0.86	-2.57	-3.33	0.06	-0.74	-2.82	-3.48	-2.18	-2.23	-0.12	-3.48	-5.02	-17.88
150	0.87	-2.57	-1.16	1.45	-0.21	1.66	0.8	-4.64	-2.13	1.57	-1.9	-4.72	-17.88
165	0.81	-1.84	-0.08	2.06	-1.07	2.18	1.47	-3.74	-5.53	1.75	-1.72	-4.49	-17.88
180	0.66	-0.88	0.56	2.4	-0.73	-0.16	0.12	-1.79	-9.81	0.16	-1.15	-4.98	-17.88
195	0.52	-0.12	0.71	2.27	-0.01	-0.4	-0.85	1.79	-3.68	-3.71	-2.12	-5.53	-17.88
210	0.46	0.36	0.58	1.44	-0.37	-0.93	-1.64	2.45	-1.38	-6.72	-4.16	-5.51	-17.88
225	0.47	0.37	-0.48	-1.06	-2.1	-1.79	-3.89	-1.52	-2.61	-8.3	-8.36	-6.06	-17.88
240	0.59	0.01	-1.68	-3.43	-2.86	-2.81	-6.47	-5.85	-2.98	-4.63	-9.71	-6.08	-17.88
255	0.62	-0.25	-2.4	-1.93	-2.86	-5.95	-7.91	-13.25	-7.64	-3.42	-9.37	-5.35	-17.88
270	0.63	-0.49	-1.34	-0.18	-0.77	-2.41	-6.7	-11.27	-10.01	-5.58	-12	-5.88	-17.88
285	0.64	-0.54	-0.22	0.45	-2.68	-3.89	-10.37	-10.63	-9.57	-5.9	-9.93	-6.26	-17.88
300	0.57	-0.31	0.43	-1.5	-7.64	-4.27	-10.01	-7.97	-11.52	-6.39	-14.01	-5.37	-17.88
315	0.47	0.04	0.68	-2.98	-4.8	-1.75	-5.43	-9.13	-11.32	-6.2	-18.72	-4.79	-17.88
330	0.55	0.45	0.87	-3.09	-5.43	0.43	0.48	-3.27	-12.04	-9.16	-15.77	-5.1	-17.88
345	0.58	0.91	0.89	-5.25	-1.38	3.82	2.73	-0.21	-8.85	-8.9	-9.94	-5.43	-17.88

5250MHz Composite Gain of Ant1, Ant2 &Ant3													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.31	1.24	1.46	4.17	4.26	4.57	4.80	3.24	-1.09	-5.20	-1.65	-2.51	-12.52
15	0.19	1.57	1.47	3.63	2.62	3.03	3.82	2.64	-1.27	-3.16	-2.21	-5.13	-12.52
30	-0.04	1.87	0.91	2.92	2.47	4.49	4.56	3.28	-2.36	-2.40	-2.86	-6.35	-12.52
45	-0.12	2.13	1.41	2.60	3.26	4.55	5.40	3.51	-1.83	-3.91	-4.36	-6.95	-12.52
60	-0.23	2.13	2.37	4.27	3.84	5.09	5.74	3.94	-0.60	-2.85	-5.46	-6.55	-12.52
75	-0.20	1.82	2.24	4.57	4.73	5.75	6.10	4.58	-0.60	-3.68	-5.91	-5.21	-12.52
90	-0.12	1.39	1.85	3.15	3.47	5.97	6.17	5.06	-0.87	-6.07	-8.26	-4.71	-12.52
105	-0.18	1.02	1.92	3.76	2.51	5.29	5.11	0.81	-4.47	-8.14	-9.64	-6.16	-12.52
120	-0.23	0.38	1.68	4.44	4.51	6.00	5.53	1.99	-1.89	-4.20	-5.12	-6.28	-12.52
135	-0.16	-0.49	0.30	2.70	2.54	5.73	4.07	2.53	-0.73	-1.60	-4.42	-5.89	-12.52
150	-0.16	-1.40	-1.26	1.03	1.35	5.86	6.41	5.84	2.80	1.53	-4.82	-6.48	-12.52
165	-0.09	-2.18	-1.70	1.37	1.68	4.17	5.80	4.70	1.59	0.98	-3.97	-7.10	-12.52
180	0.03	-2.54	-1.16	2.50	2.53	4.95	5.66	4.75	-0.33	-1.52	-2.27	-7.94	-12.52
195	0.08	-2.65	-1.44	2.61	3.20	5.18	6.20	4.02	-0.69	-2.01	-1.33	-8.92	-12.52
210	0.19	-2.86	-1.48	2.42	3.30	5.25	6.20	2.58	0.29	0.71	-0.40	-6.00	-12.52
225	0.27	-2.65	-0.50	2.95	3.49	4.68	5.76	3.19	1.13	1.72	-0.65	-3.21	-12.52
240	0.43	-2.45	-0.47	2.64	3.19	3.99	3.61	4.30	2.77	2.19	-1.22	-1.62	-12.52
255	0.46	-2.19	-0.82	1.57	2.65	3.99	3.91	4.73	4.19	3.33	-0.27	-0.39	-12.52
270	0.43	-1.87	-0.74	2.14	1.36	3.27	3.49	3.03	3.74	3.21	-0.96	-0.72	-12.52
285	0.43	-1.52	-0.49	2.83	2.89	3.11	3.08	2.97	1.95	1.32	-1.92	-1.69	-12.52
300	0.37	-0.89	-0.22	2.14	3.40	4.43	4.06	3.76	0.62	2.01	-0.28	-1.82	-12.52
315	0.30	-0.27	0.18	1.52	2.72	4.34	3.42	3.87	0.00	1.93	-1.38	-1.37	-12.52
330	0.38	0.25	0.82	3.04	4.45	6.34	6.26	5.97	1.88	1.31	-1.95	-1.18	-12.52
345	0.37	0.80	1.13	3.80	4.39	5.05	5.00	4.39	-1.62	0.21	-0.81	-1.58	-12.52

5250MHz Composite Gain of Ant1, Ant2 &Ant4													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.02	1.58	1.54	0.31	3.86	6.36	6.23	4.26	-1.65	-4.92	-2.65	-6.41	-15.37
15	-0.01	1.88	0.76	-0.96	2.62	4.85	5.05	3.31	-0.70	-3.39	-1.17	-9.29	-15.37
30	-0.13	2.00	0.54	-1.91	1.96	4.57	5.49	3.21	-0.97	-2.21	-0.53	-10.63	-15.37
45	-0.12	2.06	1.08	-0.95	1.22	4.15	4.89	2.71	-2.00	-2.52	-2.13	-7.25	-15.37
60	-0.17	2.14	1.92	2.42	1.62	4.59	5.00	1.93	-0.79	-3.24	-1.99	-4.73	-15.37
75	-0.24	1.99	2.59	3.97	3.38	5.52	5.55	3.97	0.74	-1.16	-3.17	-3.62	-15.37
90	-0.28	1.52	2.17	3.37	1.96	4.99	4.23	3.81	-0.33	-3.43	-6.76	-4.06	-15.37
105	-0.33	0.71	1.17	3.54	2.05	3.92	3.33	1.51	-1.21	-2.35	-5.42	-5.36	-15.37
120	-0.31	-0.33	0.22	4.74	4.57	4.73	3.53	1.93	-1.34	-1.06	-2.61	-5.37	-15.37
135	-0.14	-1.38	-0.29	3.88	3.44	3.62	1.91	0.84	-0.86	1.04	-2.01	-4.64	-15.37
150	-0.12	-2.09	-0.07	3.35	2.88	5.72	6.24	3.81	2.19	3.55	-1.26	-4.61	-15.37
165	-0.17	-2.41	0.40	3.62	3.41	5.31	5.77	2.61	-0.31	3.18	-0.61	-4.97	-15.37

180	-0.24	-2.29	0.87	3.92	4.09	6.28	6.08	4.63	-1.45	1.31	-0.41	-5.77	-15.37
195	-0.31	-1.99	0.70	3.63	3.80	6.19	6.10	5.55	0.67	-1.82	-1.54	-6.59	-15.37
210	-0.32	-1.72	0.59	3.54	3.34	5.17	5.49	5.01	1.64	-2.57	-2.95	-5.15	-15.37
225	-0.25	-1.62	0.39	2.62	3.04	4.35	4.41	3.76	0.55	-3.05	-5.77	-4.55	-15.37
240	-0.01	-1.60	-0.09	1.62	3.04	4.25	3.73	3.08	0.51	-1.59	-5.97	-4.05	-15.37
255	0.09	-1.57	-0.15	2.01	3.19	3.65	3.92	3.45	1.10	0.84	-4.83	-3.75	-15.37
270	0.05	-1.55	0.47	3.20	2.93	3.70	2.68	1.67	-0.64	-0.99	-6.29	-4.83	-15.37
285	0.00	-1.45	0.88	3.56	3.04	2.93	1.57	0.35	-2.28	-1.61	-5.88	-5.63	-15.37
300	-0.14	-0.95	1.01	2.16	2.03	3.85	2.85	2.02	-2.60	-2.30	-8.04	-5.19	-15.37
315	-0.23	-0.33	1.32	0.76	0.99	3.75	2.22	0.78	-3.08	-2.62	-12.09	-4.94	-15.37
330	-0.05	0.30	1.82	1.83	2.60	6.36	6.33	4.39	-1.14	-0.85	-8.28	-5.05	-15.37
345	0.04	0.98	1.97	1.55	3.72	6.36	5.85	3.58	-2.46	-3.00	-4.95	-5.60	-15.37

Ant1													
Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.58	-12.23	-5.93	-3.05	-4.09	-2.5	-0.93	-0.31	-3.13	-6.23	-8.75	-14.14	-18.44
15	-11.62	-10.65	-6.61	-4.72	-3.89	-1.28	-0.7	0.29	-0.8	-4.74	-5.45	-12.54	-18.44
30	-12.35	-7.93	-6.49	-3.94	-2.52	1.45	0.87	0.86	-2.38	-2.91	-3.05	-9.21	-18.44
45	-12.78	-6.36	-5.38	-3.96	-3.35	-0.34	0.85	-1.39	-4.94	-1.48	-3.41	-8.21	-18.44
60	-13.21	-5.69	-4.14	-1.58	-3.73	-1.45	0.61	-2.31	-4.71	-2.59	-5.83	-8.07	-18.44
75	-13.19	-5.33	-2.84	0.28	-1.68	1.53	1.48	-0.91	-3.72	-3.71	-8.16	-9.19	-18.44
90	-12.64	-5.12	-3.38	0.01	-1.24	2.17	0.62	0.32	-5.34	-7.55	-13.77	-11.82	-18.44
105	-12.32	-5.11	-4.45	-0.06	-0.6	2.6	2.53	-1.98	-8.97	-16.19	-17.74	-15.93	-18.44
120	-12.57	-5.49	-3.7	2.12	2.87	4.47	2.83	-3.41	-8.69	-9.47	-7.23	-12.61	-18.44
135	-12.79	-6.43	-4.4	0.31	0.34	-1.81	-6.88	-5.94	-6.79	-3.34	-5.78	-10.43	-18.44
150	-12.69	-8.25	-6.78	-5.03	-1.92	-0.03	1.87	1.97	-0.58	-0.57	-6.56	-11.52	-18.44
165	-12.53	-10.81	-11.49	-4.86	-0.49	1.04	3.08	0.13	-3.99	-1.88	-5.08	-11.35	-18.44
180	-12.46	-14.35	-9.4	-3.64	-1.27	1.28	1.03	-1.56	-5.6	-3.4	-6.11	-13.47	-18.44
195	-12.51	-18.3	-8.42	-4.33	-2.49	1.92	2.03	-1.6	-7.8	-12.28	-12.35	-18.44	-18.44
210	-12.21	-21.18	-9.47	-5.13	-2.31	2.18	2.69	-0.47	-6.45	-10.02	-11.92	-14.49	-18.44
225	-12.05	-19.37	-10.54	-5.41	-1.91	1.15	2.05	0.08	-6.97	-9.1	-11.44	-12.02	-18.44
240	-11.7	-15.96	-9.39	-5.54	-2.14	1.27	1.48	-0.69	-7.09	-9.4	-13.46	-10.68	-18.44
255	-11.37	-13.64	-7.64	-3.05	-2.28	0.38	0.77	0.56	-4.36	-6.41	-11.47	-9.66	-18.44
270	-11.44	-12.38	-6.73	-1.76	-1.83	-0.52	-1.31	-2.17	-7.01	-9.3	-16.87	-13.49	-18.44
285	-11.78	-11.63	-7.2	-2.54	-1.95	-0.67	-2.46	-4.64	-15.42	-13.07	-21.13	-17.2	-18.44
300	-12	-11.23	-8.9	-4.05	-2.4	-0.18	-1.77	-1.67	-10.71	-8.85	-17.81	-15.18	-18.44
315	-12.04	-11.35	-11.15	-7.45	-3.96	-2.12	-4.32	-3.63	-8.03	-11.25	-16.51	-14.39	-18.44
330	-12.11	-11.3	-7.51	-5.01	-2.61	-1.38	-0.54	-1.42	-5.28	-7.03	-14.99	-13.38	-18.44
345	-11.86	-11.15	-5.79	-2.26	-2.27	-0.83	0.64	-0.83	-6.25	-7.09	-12.16	-14.4	-18.44

Ant2													
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Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-10.9	-5.92	-4.44	-3.21	0.74	1.64	0.07	-2.27	-16.56	-13.64	-10.54	-13.78	-15.82
15	-11.45	-5.51	-4.34	-4.32	-1.8	0.6	0.75	-1.5	-10.78	-12.3	-10.11	-15.82	-15.82
30	-12.16	-5.1	-4.43	-8.31	-6.3	1.2	1.98	0.05	-7.93	-12.07	-10.29	-12.91	-15.82
45	-12.5	-4.98	-4.98	-9.85	-3.92	2.25	2.9	1.39	-6.64	-13.39	-15.47	-12.56	-15.82
60	-12.42	-5.41	-5.37	-6.38	-0.85	2.68	2.95	1.75	-6.39	-15.55	-13.35	-11.41	-15.82
75	-12.09	-6.25	-5.79	-5.35	1.17	3.56	3.55	2.94	-3.93	-13	-14.77	-11.58	-15.82
90	-11.97	-7.44	-4.92	-5.27	-1.11	1.97	2.76	1.17	-5.38	-14.02	-18.6	-13.37	-15.82
105	-11.94	-8.96	-4.24	-1.98	-1.52	-1.48	-1.57	-4.22	-8.96	-9.64	-13.84	-14.68	-15.82
120	-11.79	-10.35	-4.68	-1.02	0.41	-0.84	-0.02	-4.07	-12.17	-10.91	-11.95	-13.35	-15.82
135	-12.04	-11.74	-5.49	-2.92	-2.01	0.7	-1.08	-4.38	-11.44	-11.76	-14.69	-15.18	-15.82
150	-12.52	-14.11	-6.33	-2.72	-3.4	-1.01	-0.67	-1.52	-6.74	-8.63	-15.97	-14.72	-15.82
165	-12.53	-16.6	-7.04	-1.8	-1.91	-0.52	-1.87	-1.73	-8.2	-11.47	-14.53	-14.21	-15.82
180	-12.31	-16.13	-7.31	-1.62	0.97	3.04	2.26	2.14	-2.79	-10.5	-12.09	-15.7	-15.82
195	-11.82	-15.24	-6.5	-0.8	0.14	2.09	2.04	1.65	-1.17	-6.74	-10.84	-15.64	-15.82
210	-10.86	-15.5	-6.41	-0.57	-0.48	0.88	1.67	0.61	-2.88	-6.47	-12.48	-14.99	-15.82
225	-10.42	-16.01	-5.86	-0.7	-0.65	0.68	1.17	1.33	-4.07	-7.51	-12.34	-12.49	-15.82
240	-10.75	-15.74	-5.78	-1.53	-0.9	-0.38	-0.58	0.67	-4.05	-6.78	-11.6	-9.43	-15.82
255	-11.12	-14.92	-6.94	-2.88	-0.25	-0.41	-0.16	2.12	-0.99	-2.95	-9.46	-9.6	-15.82
270	-11.16	-13.92	-7.7	-4.16	-1.53	0.38	-0.27	1.06	0.32	-3.14	-6.4	-9.46	-15.82
285	-11.34	-12.79	-8.14	-3.79	-2.36	-0.62	-0.99	-0.32	-0.4	-2.5	-5.05	-9.98	-15.82
300	-11.16	-11.94	-8.37	-3.99	-1.23	0.75	1.74	1.18	-2.24	-4.65	-6.27	-11.55	-15.82
315	-10.74	-10.48	-7.24	-4.73	-2.64	0.36	0.18	-0.65	-4.94	-7.95	-14.88	-11.16	-15.82
330	-10.68	-8.38	-5.57	-1.35	1.2	5.24	4.86	1.74	-2.75	-1.73	-16.57	-12.31	-15.82
345	-10.8	-6.77	-4.64	-1.24	1	3.88	1.58	-1.35	-7.17	-5.3	-10.03	-13.95	-15.82

Ant3													
Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	1.2	0.32	-0.81	1.46	0.67	-1.97	-4.48	-0.59	-3.83	-8.81	-1.89	-0.19	-10.29
15	1.02	0.93	-0.59	0.4	0.47	-2.67	-4.63	-4.87	-8.95	-5.29	-3.48	-2.6	-10.29
30	0.94	1.23	-0.8	-0.18	0.33	-0.64	-3.98	-3.35	-11.85	-5.42	-6.6	-4.91	-10.29
45	1.02	1.02	0.6	-1.36	0.22	-3.45	-4.07	-3.09	-7.6	-10.92	-7.71	-8.1	-10.29
60	1.08	0.32	0.92	1.89	-0.47	-2.03	-2.09	-0.16	-2.72	-6.33	-11.53	-8.89	-10.29
75	1.15	-0.34	0.85	1.7	-0.1	-5.65	-2.32	-2.16	-6.25	-10.3	-11.33	-7.71	-10.29
90	1.09	-0.73	0.84	0.04	-1.75	-2.55	-0.14	-0.99	-3.23	-10.53	-8.83	-5.58	-10.29
105	0.99	-1.06	0.33	-0.35	-1.87	-0.23	-0.05	-3.21	-6.74	-16.3	-13.81	-5.36	-10.29
120	0.99	-1.29	-0.47	-1.05	-3.22	0.04	1.04	-0.38	-3.02	-8.32	-12.12	-5.48	-10.29
135	1.07	-1.43	-1.64	-3.21	-3.37	1.6	2.19	1.91	-1.61	-7.43	-9.4	-4.33	-10.29
150	1.07	-1.64	-1.95	-3.73	-4.39	1.95	2.64	2.35	-0.45	-3.67	-10.17	-5.39	-10.29
165	1.13	-1.9	-2.54	-2.22	-7.57	-1.29	0.98	1.1	-1.43	-3.03	-10.21	-7.19	-10.29
180	1.14	-2.01	-2.4	-0.6	-7.65	-5.16	-2.56	-2.07	-6.98	-7.1	-4.53	-8.86	-10.29

195	1.16	-1.8	-1.85	1.23	-3.58	-3.16	-0.96	-2.02	-8.08	-4.3	-0.26	-10.29	-10.29
210	1.3	-1.52	-1.84	-0.22	-1.68	0.15	-0.69	-3.16	-7.67	-1.73	1.68	-8.18	-10.29
225	1.48	-1.73	-1.58	1.3	-2.07	-0.21	0.57	-1.37	-1.78	1.38	1.18	-4.68	-10.29
240	1.38	-1.57	-2.3	-0.5	-3.32	-5.41	-6.27	-3.09	2.37	3.49	-0.08	-2.47	-10.29
255	1.42	-1.24	-4.01	-4.08	-5.75	-4.24	-5.31	-8.87	2.32	3.93	0.6	-0.23	-10.29
270	1.25	-0.84	-3.04	-3	-3.57	-4.36	-3.57	-2.36	2.73	3.92	-0.06	0.62	-10.29
285	1.2	-0.59	-2.14	-1.45	-2.29	-2.03	-2.42	0.53	2.05	1.08	-1.9	0.49	-10.29
300	1.25	-0.54	-2.45	-2.14	-2.18	-1.82	-3.93	-0.89	-2.04	2.62	1.28	0.9	-10.29
315	1.43	-0.42	-3.04	-2.74	-0.33	-0.34	-3.62	0.96	-3.63	3.19	0.98	1.46	-10.29
330	1.39	-0.26	-3.25	-1.13	-0.72	-1.1	-2.9	2.32	-0.22	-1.71	-1.25	1.4	-10.29
345	1.44	-0.09	-2.11	1.03	1.33	-0.15	-0.69	2.32	-1.82	-1.27	-0.33	1.18	-10.29

Ant4													
Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.99	0.92	-0.03	-10.17	-0.54	3.67	3.6	1.43	-8.71	-6.36	-2.93	-7.56	-15.53
15	0.99	1	-1.12	-12.61	0.24	2.42	1.59	-1.59	-6.61	-3.91	-2.69	-11.68	-15.53
30	1.03	0.78	-0.14	-11.11	-1.02	0.91	-0.26	-5.31	-7.12	-5.49	-3.15	-15.53	-15.53
45	1.02	0.62	0.98	-2.98	-8.94	-2.57	-4.09	-5.68	-11.04	-13.98	-4.91	-10	-15.53
60	1	0.51	1.05	0.5	-8.44	-5.69	-2.27	-9.81	-4.91	-8.28	-3.78	-7.38	-15.53
75	0.95	0.09	0.21	-0.06	-9.78	-6.87	-6.19	-7.21	-3.8	-3.09	-3.68	-6.99	-15.53
90	0.83	-0.89	-1.76	-2.22	-8.41	-9.47	-9.21	-5.2	-3.56	-6.28	-6.23	-6.34	-15.53
105	0.75	-2.12	-3.32	-1.22	-3.09	-6.28	-10.58	-1.47	-0.88	-3.52	-5.81	-5.9	-15.53
120	0.8	-3.24	-3.28	-0.98	-2.55	-6.36	-12.24	-1.23	-0.96	-1.64	-5.51	-6.58	-15.53
135	0.88	-3.71	-2.49	-0.66	-1.76	-1.36	-2.31	-1.71	-1.9	0.73	-3.91	-5.69	-15.53
150	0.97	-2.98	-1.22	0.61	-1.05	1.72	1.73	-2.5	-2.81	2.15	-1.7	-5.16	-15.53
165	0.98	-2.03	-0.82	1.03	-1.02	2.27	2.42	-2.55	-6.77	2	-1.44	-4.43	-15.53
180	0.88	-1.07	-0.12	1.6	-0.21	0.23	1.18	-2.58	-8.82	0.32	-0.4	-4.44	-15.53
195	0.74	-0.27	0.37	2.12	0.24	-0.16	-1.79	0.24	-3.22	-2.84	-0.95	-5.45	-15.53
210	0.63	0.19	0.51	1.76	-0.07	-0.04	-3.31	1.92	-0.27	-5.59	-3.56	-6.01	-15.53
225	0.71	0.42	0.57	-0.65	-2.56	-1.72	-4.73	-1.51	-1.96	-7.8	-7.9	-6.34	-15.53
240	0.84	0.32	-0.03	-3.08	-3.54	-1.16	-6.4	-4.79	-3	-6.14	-7.91	-5.9	-15.53
255	0.94	-0.24	-1.08	-3.48	-3.48	-4.72	-9.68	-11.04	-6.24	-4.24	-6.88	-4.57	-15.53
270	1.04	-1.06	-1.9	-1.25	-1.66	-3.46	-8.3	-11.38	-15.22	-6.01	-11.16	-5.09	-15.53
285	0.98	-1.33	-0.89	0.28	-2.43	-3.16	-12.78	-9.2	-9.33	-6.5	-9.79	-6.32	-15.53
300	0.87	-1.27	0.47	-0.11	-6.71	-7.54	-10.07	-6.27	-11.01	-7.6	-10.62	-6.34	-15.53
315	0.86	-0.77	1.01	-1.79	-7.3	-2.14	-5.53	-9.92	-12.25	-4.57	-15.9	-5.96	-15.53
330	0.87	-0.04	1.12	-4.09	-5.45	-3.37	-3.71	-3.95	-8.63	-9.54	-14.14	-5.68	-15.53
345	0.91	0.54	0.82	-5.64	-2.13	1.13	0.51	0.73	-8.61	-11.13	-7.98	-5.77	-15.53

5350MHz Composite Gain of Ant1, Ant2 &Ant3													
Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180

0	-0.18	0.28	1.32	3.45	4.15	4.03	3.20	3.76	-1.31	-4.28	-1.44	-1.98	-9.39
15	-0.40	0.97	1.29	2.22	3.21	3.76	3.53	3.00	-0.92	-2.06	-1.16	-3.64	-9.39
30	-0.68	1.71	1.19	1.24	2.35	5.49	4.75	4.14	-1.74	-1.25	-1.38	-3.63	-9.39
45	-0.74	1.95	1.97	0.39	2.62	4.56	5.13	3.94	-1.55	-2.22	-2.80	-4.62	-9.39
60	-0.74	1.65	2.36	3.38	3.20	4.77	5.50	4.69	0.29	-1.90	-4.85	-4.57	-9.39
75	-0.64	1.21	2.60	4.14	4.65	5.39	6.00	5.01	0.21	-3.32	-6.24	-4.58	-9.39
90	-0.59	0.80	2.64	3.36	3.41	5.56	5.94	4.98	0.18	-5.53	-8.07	-4.80	-9.39
105	-0.60	0.32	2.28	4.01	3.46	5.24	5.24	1.68	-3.39	-8.68	-10.17	-5.84	-9.39
120	-0.62	-0.18	2.01	4.92	5.14	6.32	6.14	2.30	-2.36	-4.73	-5.35	-4.94	-9.39
135	-0.63	-0.78	1.08	2.98	3.23	5.05	3.60	2.67	-0.93	-2.07	-4.45	-4.08	-9.39
150	-0.69	-1.78	0.04	1.00	1.59	5.16	6.16	5.87	2.63	1.08	-5.32	-4.89	-9.39
165	-0.63	-2.91	-1.50	1.91	1.94	4.57	5.73	4.68	0.66	0.23	-4.32	-5.66	-9.39
180	-0.58	-3.62	-1.09	2.91	2.82	5.14	5.24	4.49	-0.17	-1.75	-2.25	-7.43	-9.39
195	-0.49	-3.88	-0.37	3.76	2.94	5.37	5.92	4.28	-0.29	-2.41	-1.26	-9.34	-9.39
210	-0.20	-3.99	-0.56	3.07	3.31	5.88	6.11	3.90	-0.65	-0.64	-0.14	-7.19	-9.39
225	0.02	-4.06	-0.47	3.60	3.25	5.33	6.06	4.85	0.75	1.00	-0.40	-4.17	-9.39
240	-0.05	-3.50	-0.58	2.50	2.71	3.70	3.55	3.87	2.77	2.43	-1.45	-1.96	-9.39
255	-0.03	-2.80	-1.28	1.45	2.30	3.57	3.59	3.87	4.18	4.05	-0.29	-0.51	-9.39
270	-0.17	-2.17	-0.81	1.85	2.51	3.50	3.16	3.76	4.33	3.56	-0.61	-0.57	-9.39
285	-0.28	-1.69	-0.64	2.23	2.57	3.69	2.84	3.57	2.80	1.69	-1.54	-1.17	-9.39
300	-0.25	-1.44	-1.28	1.42	2.85	4.42	3.77	4.40	0.59	2.46	0.20	-0.98	-9.39
315	-0.06	-1.12	-1.75	0.01	2.59	4.13	2.42	3.87	-0.57	1.75	-1.55	-0.42	-9.39
330	-0.09	-0.56	-0.50	2.45	4.20	6.26	5.87	5.80	2.27	1.61	-3.24	-0.52	-9.39
345	-0.04	-0.03	0.73	4.06	4.94	6.00	5.33	4.97	0.02	0.57	-1.11	-1.04	-9.39

5350MHz Composite Gain of Ant1, Ant2 &Ant4													
Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.32	0.63	1.68	-0.14	3.70	6.07	5.91	4.52	-3.09	-3.36	-2.00	-6.50	-11.73
15	-0.42	1.01	1.04	-1.71	3.12	5.48	5.37	3.88	-0.33	-1.49	-0.80	-8.40	-11.73
30	-0.61	1.47	1.50	-2.51	1.76	5.96	5.68	3.70	-0.68	-1.27	-0.13	-7.39	-11.73
45	-0.74	1.75	2.16	-0.34	-0.30	4.77	5.12	3.34	-2.41	-2.78	-1.77	-5.31	-11.73
60	-0.80	1.74	2.42	2.73	0.97	3.94	5.46	2.51	-0.53	-2.53	-2.02	-4.01	-11.73
75	-0.78	1.42	2.31	3.41	2.44	5.20	5.28	3.98	0.95	-0.82	-2.99	-4.28	-11.73
90	-0.77	0.72	1.51	2.54	1.78	4.40	4.15	3.96	0.05	-3.91	-6.60	-5.19	-11.73
105	-0.77	-0.19	0.78	3.72	3.09	3.78	3.08	2.29	-0.60	-3.55	-6.23	-6.17	-11.73
120	-0.75	-1.11	0.90	4.94	5.29	4.95	3.62	1.95	-1.20	-1.55	-3.06	-5.51	-11.73
135	-0.77	-1.92	0.73	3.78	3.69	4.02	1.68	0.94	-1.08	1.36	-2.26	-4.82	-11.73
150	-0.76	-2.54	0.38	2.70	2.70	5.07	5.82	4.31	1.75	3.49	-1.54	-4.76	-11.73
165	-0.73	-2.99	-0.58	3.22	3.65	5.78	6.24	3.46	-1.37	2.58	-0.73	-4.22	-11.73
180	-0.76	-2.96	0.12	3.82	4.65	6.37	6.28	4.35	-0.62	1.30	-0.17	-4.98	-11.73
195	-0.79	-2.74	0.79	4.16	4.16	6.11	5.71	4.97	1.13	-1.70	-1.70	-6.51	-11.73
210	-0.65	-2.65	0.69	3.90	3.87	5.83	5.49	5.51	1.93	-2.39	-3.52	-6.01	-11.73

225	-0.49	-2.39	0.69	2.79	3.10	4.90	4.74	4.81	0.68	-3.34	-5.57	-5.04	-11.73
240	-0.41	-2.10	0.57	1.54	2.64	4.74	3.53	3.46	0.22	-2.56	-5.91	-3.66	-11.73
255	-0.36	-2.10	0.08	1.64	2.87	3.46	2.84	3.61	1.18	0.35	-4.29	-2.83	-11.73
270	-0.31	-2.31	-0.28	2.47	3.10	3.72	2.13	1.99	-0.38	-1.02	-5.70	-3.91	-11.73
285	-0.43	-2.17	-0.01	2.93	2.53	3.37	0.69	0.79	-1.45	-1.57	-5.03	-5.33	-11.73
300	-0.51	-1.90	0.32	2.26	1.63	3.15	2.65	3.03	-2.19	-2.08	-5.60	-5.49	-11.73
315	-0.45	-1.34	0.50	0.42	0.35	3.55	1.91	0.83	-3.14	-2.73	-10.97	-5.03	-11.73
330	-0.44	-0.43	1.61	1.43	2.91	5.65	5.71	3.87	-0.46	-0.70	-10.40	-4.98	-11.73
345	-0.40	0.33	2.07	1.92	3.77	6.38	5.69	4.33	-2.52	-2.74	-5.12	-5.63	-11.73

Ant1													
Freq	5700												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-22.19	-17.03	-12.7	-7.93	-2.28	-1.44	1.89	1.98	-1.25	-4.41	-8.35	-8.48	-15.12
15	-20.27	-14.23	-17.34	-4.52	-0.75	0.11	1.67	1.2	0.68	-7.76	-4.62	-6.56	-15.12
30	-22.04	-12.99	-14.57	-3.14	-2.59	-0.12	-0.22	-0.09	-1.94	-6.49	-2.29	-5.93	-15.12
45	-23.46	-10.24	-13.32	-6.23	-4.39	-0.48	0.41	-2.27	-6.04	-4.44	-3.78	-7.11	-15.12
60	-22.78	-8.87	-10.25	-22.46	-7.85	-1.07	1.32	-3.29	-4.85	-4.28	-8.2	-7.55	-15.12
75	-22.75	-7.97	-9.16	-9.67	-7.65	0.61	2.72	0.48	-1.16	-3.08	-7.47	-6.79	-15.12
90	-20.95	-7.8	-9.17	-6.87	-6.65	0.75	2.12	1.04	-0.75	-3.16	-6	-5.73	-15.12
105	-19.47	-8.21	-9.58	-5.95	-3.26	1.59	-0.17	-0.66	-3.03	-8.39	-10.62	-5.7	-15.12
120	-20.83	-9.16	-6.6	-2.06	0.15	2.05	2.15	1.11	-4.92	-15.42	-8.14	-6.3	-15.12
135	-21.68	-9.97	-3.63	-0.26	1.26	-0.74	-3	-9.03	-12.49	-5.9	-4.56	-5.5	-15.12
150	-21.61	-11.04	-2.86	-3.59	-1.1	-4.35	3.76	0.67	-2.24	-0.38	-6.15	-7.91	-15.12
165	-22.14	-14.27	-5.63	-8.87	-0.79	1.55	4.51	0.11	-4.22	-2.15	-5.94	-9.43	-15.12
180	-21.75	-19.3	-10.8	-2.74	-0.24	2.15	2.12	-0.24	-6.1	-5.16	-6.42	-12.32	-15.12
195	-21.27	-17.81	-19.86	-3.47	-4.79	-0.38	0.2	-3.24	-12.02	-8.63	-11.55	-15.12	-15.12
210	-21.1	-14.37	-14.49	-14.06	-6.41	0.66	1.8	-1.71	-5.81	-12.43	-12.77	-13.48	-15.12
225	-21.51	-11.05	-10.49	-20.44	-4.45	1.34	2.46	-0.75	-6.55	-11.77	-9.56	-9.15	-15.12
240	-22.31	-8.96	-8.6	-11.71	-4.2	-0.04	0.72	-2.56	-6.51	-8.72	-12.8	-9.86	-15.12
255	-23.19	-7.91	-7.82	-5.7	-1.57	0.63	-0.25	-1.41	-4.84	-6.33	-14.32	-8.72	-15.12
270	-23.3	-7.66	-7.41	-4.37	-2.21	0.87	-1.45	-2.68	-8.35	-11.21	-17.69	-7.99	-15.12
285	-22.52	-8.28	-8.08	-5.7	-4.61	-1.96	-4.21	-7.47	-15.96	-14.55	-17.3	-8.34	-15.12
300	-22.41	-9.86	-7.23	-9.02	-5.32	-1.39	-3.27	-5.23	-10.34	-10.04	-12.77	-8.9	-15.12
315	-23.21	-12.21	-5.44	-5.31	-5.95	-2.88	-3.18	-3.7	-7.7	-10.67	-10.24	-8.55	-15.12
330	-23.73	-14.63	-5.22	-2.58	-2.3	-2.06	-1.94	-0.78	-8.39	-7.42	-7.89	-8.47	-15.12
345	-23.99	-18.41	-7.83	-4.89	-4.64	-3.64	-1.89	-0.15	-7.13	-7.87	-8.51	-8.94	-15.12

Ant2													
Freq	5700												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-13.05	-14.47	-9.9	-2.53	1.31	3.22	0.36	-2.18	-9.55	-11.33	-8.26	-8.7	-16.32

15	-12.56	-14.43	-6.5	-3.36	-0.41	0.8	-0.21	-1.31	-9.69	-9.48	-10.79	-8.93	-16.32
30	-11.74	-14.34	-5.28	-7.25	-5.66	-0.76	1.99	-0.37	-7.74	-11.54	-12.88	-11.59	-16.32
45	-11.25	-14.73	-5.09	-9.97	-4.21	2.93	3.87	1.75	-5.25	-11.81	-17.02	-12.6	-16.32
60	-10.99	-16.32	-4.68	-10.18	-3.12	3.27	2.77	1.6	-5.43	-18.02	-11.83	-12.04	-16.32
75	-11.06	-16.83	-4.24	-7.17	-1.88	2.56	1.65	0.33	-4.16	-21.64	-14.27	-15.87	-16.32
90	-11.11	-16.14	-4.29	-4.16	-1.02	2.58	3.24	0.44	-5.73	-16.56	-19.78	-16.32	-16.32
105	-11.28	-16.23	-5.53	-3.52	-2.16	-2.15	-3.57	-4.57	-9.69	-12.8	-16.54	-11.4	-16.32
120	-11.11	-14.1	-7.5	-5.17	-0.52	1.63	-0.18	-3.46	-11.25	-9.43	-13.34	-8.76	-16.32
135	-11.09	-11.48	-8.13	-5.98	-4.96	-2.38	-3.18	-4.59	-14.97	-18.47	-13.62	-10.26	-16.32
150	-10.89	-9.73	-7.47	-2.51	-0.89	0.5	-2.69	-3.35	-11.37	-9.2	-12.92	-12.95	-16.32
165	-10.84	-8.18	-7.67	-3.26	-1.24	-0.27	-1.82	-0.96	-6.17	-8.96	-14.65	-12.89	-16.32
180	-10.62	-6.96	-7.29	-4.86	-0.53	2.27	2.33	1.11	-1.1	-8.29	-13.43	-13.19	-16.32
195	-11.04	-6.19	-6.14	-6.16	-1.67	2.13	2.85	0.29	-2.37	-7.45	-11.31	-11.96	-16.32
210	-11.47	-5.96	-5.31	-5.53	-4.04	0.78	1.56	0.51	-4.95	-7.07	-10.87	-8.83	-16.32
225	-12.21	-5.79	-3.75	-4.49	-4.5	0.49	0.03	1.07	-3.25	-6.81	-7.48	-7.86	-16.32
240	-12.57	-5.84	-3.45	-2.28	-1.45	1.86	-0.52	0.66	-0.77	-3.65	-6.67	-8.69	-16.32
255	-12.55	-6.53	-3.56	-1.6	-0.2	3.21	-0.11	-0.99	-0.11	-1.15	-7.37	-8.74	-16.32
270	-12.32	-7.51	-4.71	-3.29	-1.72	2.06	-0.68	-1.15	0.86	-1.99	-15.5	-15.31	-16.32
285	-12.24	-8.98	-5.95	-4.71	-3.69	-0.53	-2.59	-2.66	1.41	-1.35	-6.97	-12.18	-16.32
300	-12.15	-10.59	-7.48	-5.54	-4.4	0.8	0.03	-1.26	-2.7	-2.95	-5.53	-7.34	-16.32
315	-12.41	-11.73	-9.28	-11.23	-7.76	-1.17	0.37	-1.26	-7.44	-3.91	-8.34	-6.26	-16.32
330	-12.72	-12.56	-12.38	-7.58	-0.72	3.28	4.47	2	-5.13	-2.24	-9.75	-7.34	-16.32
345	-12.89	-13.84	-14.8	-4.15	0.23	4.12	1.57	-1.26	-8.36	-5.29	-5.62	-8.8	-16.32

Ant3													
Freq	5700												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.21	-4.8	-2.88	1.01	1.89	0.31	-4.19	-0.66	-6.55	-4.21	-0.11	1.44	-11.05
15	-3.15	-4.4	-0.43	1	2.21	-0.58	-2.35	-1.67	-7.06	-6.41	-1.8	-0.99	-11.05
30	-3.19	-3.57	0.77	0.66	1.82	1.23	-2.35	-1.07	-4.06	-4.65	-4.42	-3.47	-11.05
45	-3.45	-1.75	-0.06	0.75	0.22	-0.09	-1.89	-1.24	-1.69	-5.17	-8.19	-5.34	-11.05
60	-3.46	-0.17	0.63	-1.22	-1.13	-4.63	-5.72	-2.06	0.62	-2.69	-15.93	-4.96	-11.05
75	-3.43	0.24	1.44	2.58	-2.25	-7.15	-3.19	-3.42	-4.12	-5.32	-11.39	-4.98	-11.05
90	-3.24	-0.09	0.44	2.12	-1.18	0.15	-2.16	0.83	-0.33	-7.38	-8.99	-5.26	-11.05
105	-3.11	-0.54	-0.95	-2.78	-3.57	-1.83	-1.03	-1.97	-1.87	-8.72	-12.98	-5.04	-11.05
120	-3.24	-0.9	-1.35	-4.44	-2.19	0.83	1.68	-0.71	-1.63	-5.29	-15.75	-5.37	-11.05
135	-3.44	-1.36	-1.51	-3.26	-1.85	0.81	2.88	1.51	-1.5	-8.17	-12.46	-4.57	-11.05
150	-3.6	-1.61	-2.35	-5.51	-4.79	0.06	0.8	1.55	-1.04	-11.29	-6.26	-7.17	-11.05
165	-3.82	-1.56	-3.5	-6.04	-14.72	-0.84	-0.76	-1.86	-3.98	-14.33	-4.63	-11.05	-11.05
180	-3.79	-1.76	-5.49	-2.42	-5.07	-7.46	-2.75	-2.47	-6.8	-13.71	-3.31	-9.21	-11.05
195	-3.65	-2.37	-8.54	-1.65	-1.85	-2.75	-2.6	-5.27	-2.63	-5.14	0.31	-7.95	-11.05
210	-3.54	-3.54	-7.8	-2.52	-1.52	0.68	0.04	-1.43	-1.36	-3.62	3.35	-6.51	-11.05
225	-3.23	-4.2	-6.59	-2.62	-4.17	-1.17	0.15	1	-3.36	2.66	1.93	-3.87	-11.05

240	-3.23	-4.45	-5.05	-5.38	-8.82	-7.3	-3.06	-3.85	-3.15	3.86	2.21	-4.31	-11.05
255	-3.45	-5.26	-3.82	-7.86	-7.35	-1.56	-1.73	-11.92	-0.38	4.15	2.47	-4.11	-11.05
270	-3.76	-6.54	-4.35	-6.46	-4.09	-4.46	-3.89	-7.24	1.15	4.61	1.98	-1.25	-11.05
285	-3.69	-7.86	-5.1	-6.37	-6.27	-1.38	-1.19	-0.54	0.84	3.21	-0.5	1.19	-11.05
300	-3.48	-7.97	-4.74	-4.44	-5.93	0.2	-0.7	-3.39	-8.04	3.17	0.88	2.3	-11.05
315	-3.24	-7.44	-3.82	-1.9	-2.75	2.34	-0.06	0.1	-3.81	2.29	1	3.04	-11.05
330	-3.11	-6.48	-3.06	-1.13	-0.08	2.14	-0.75	2.25	1.9	-3.32	-0.29	3.46	-11.05
345	-3.09	-5.49	-3.1	-0.41	1.73	1.04	-6.19	-0.21	-0.18	-1.93	0.93	3.08	-11.05

Ant4													
Freq	5700												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.28	0.04	2.09	-2.46	-5.38	2.37	2.67	2.15	-2.67	-9.61	-10.07	-6.51	-14.27
15	-3.58	0.26	2.88	-2.62	-3.92	3.07	1.57	-0.79	-6.19	-8.43	-7.11	-11.46	-14.27
30	-3.78	0.16	2.61	0.31	-5.82	1.46	-0.81	-5.51	-9.5	-9.07	-4.83	-14.27	-14.27
45	-4	-0.59	1.65	1.21	-10.79	-0.58	-0.65	-1.91	-11.2	-9.34	-3.61	-9.72	-14.27
60	-3.94	-1.98	-0.03	0.98	-5.09	-5.43	-3.46	-4.46	-4.51	-7.48	-6.24	-8.59	-14.27
75	-3.84	-3.46	-1.37	-0.02	-8.41	-7.38	-6.05	-6.66	-5.18	-3.55	-4.7	-7.08	-14.27
90	-3.73	-4.78	-1.83	0.08	-4.35	-6.63	-11.31	-8.58	-3.65	-2.28	-4.33	-8.41	-14.27
105	-3.78	-5.71	-2.42	-1.91	-5.02	-3.9	-8.9	-3.91	-2.03	-1.72	-2.84	-8.7	-14.27
120	-3.8	-6.27	-3.2	-2.92	-3.44	-2.83	-4.89	-2.26	-0.93	-0.16	-3.36	-8.43	-14.27
135	-3.75	-6.44	-3.97	-2.42	-1.31	1.66	-0.75	-7.13	-1.78	3.05	-3.17	-6.05	-14.27
150	-3.9	-6.97	-4.5	-2.98	-1.98	2.9	0.62	-1.46	-3.85	2.94	-0.99	-5.17	-14.27
165	-3.93	-7.64	-3.97	-1.81	-3.15	1.43	1.87	1.09	-3.48	0.07	-0.83	-5.05	-14.27
180	-3.83	-7.96	-3.61	-0.06	-0.64	0.95	1.25	0.71	-1.23	-3.9	-0.76	-3.43	-14.27
195	-3.71	-8.11	-3.75	0.29	0.02	1.33	0.52	-1.97	-1.29	-4.63	-0.27	-2.4	-14.27
210	-3.44	-7.76	-4.18	0.57	0.02	1.31	-1.84	-2.82	-0.33	-4.36	-1.2	-3.5	-14.27
225	-3.2	-5.82	-4.68	-0.07	-0.87	0.22	-4.38	-3.33	-0.72	-2.5	-3.32	-5.07	-14.27
240	-3.24	-3.57	-2.9	-1.21	-2.79	-1.15	-4.58	-5.89	-1.66	-2.8	-7.91	-6.29	-14.27
255	-3.38	-2.07	-1.24	-2.14	-4.34	-1.72	-6.3	-8.48	-4.31	-2.11	-8.84	-6.77	-14.27
270	-3.37	-1.65	-1.14	-1.49	-2.2	-3.73	-9.45	-9.8	-8.47	-4.48	-8.76	-6.32	-14.27
285	-3.51	-1.7	-2.49	-0.74	-1.47	-4.19	-9.24	-10.97	-10.67	-4.62	-5.56	-7.15	-14.27
300	-3.42	-1.56	-2.99	-0.47	-3.75	-7.43	-6.53	-4.45	-10.09	-5.97	-7.86	-7.59	-14.27
315	-3.42	-1.34	-1.26	0.24	-7.32	-3.23	-3.04	-4.21	-6.2	-4.23	-15.97	-6.47	-14.27
330	-3.27	-0.79	0.62	0.5	-8.69	0.41	1.23	-3.05	-9.89	-7.43	-15.27	-5.94	-14.27
345	-3.3	-0.28	1.69	-1.2	-6.89	2.43	4.75	0.31	-2	-9.97	-18.27	-5.81	-14.27

5700MHz Composite Gain of Ant1, Ant2 &Ant3													
Freq	5700												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.85	-5.64	-2.70	2.36	5.26	5.68	4.48	4.66	-0.32	-1.31	0.12	0.91	-9.09
15	-4.53	-4.89	-0.90	2.82	5.23	4.90	4.63	4.27	0.59	-3.02	-0.22	-0.06	-9.09
30	-4.51	-4.11	0.45	2.11	3.18	4.93	4.76	4.27	0.51	-2.33	-0.71	-1.61	-9.09

45	-4.66	-2.44	0.17	0.78	2.25	5.70	5.89	4.36	0.66	-1.80	-3.35	-3.07	-9.09
60	-4.55	-1.29	1.10	-2.80	1.17	4.56	4.94	3.78	2.00	-1.42	-6.66	-2.94	-9.09
75	-4.54	-0.84	1.85	1.72	1.21	4.34	5.52	4.08	1.74	-2.32	-5.82	-3.32	-9.09
90	-4.29	-0.95	1.29	2.65	2.18	5.99	6.13	5.54	2.82	-2.69	-5.14	-3.08	-9.09
105	-4.12	-1.35	0.13	0.79	1.80	4.15	3.30	2.52	0.52	-4.98	-8.28	-2.18	-9.09
120	-4.28	-1.56	0.07	0.99	3.97	6.29	6.04	3.95	-0.32	-4.34	-7.04	-1.92	-9.09
135	-4.48	-1.61	0.76	1.92	3.29	4.10	4.15	1.81	-2.78	-4.63	-4.45	-1.67	-9.09
150	-4.52	-1.62	0.83	0.99	2.69	3.77	5.79	4.64	0.94	-0.82	-3.15	-4.22	-9.09
165	-4.69	-1.73	-0.66	-0.99	1.09	4.98	5.88	3.91	0.04	-2.30	-2.65	-6.24	-9.09
180	-4.58	-2.01	-2.82	1.50	3.09	4.78	5.63	4.36	0.49	-3.61	-2.01	-6.63	-9.09
195	-4.57	-1.97	-5.05	1.20	2.11	4.67	5.20	2.34	0.09	-2.18	-0.84	-6.41	-9.09
210	-4.60	-2.10	-3.64	-1.39	1.01	5.48	5.94	3.95	0.95	-2.22	1.19	-4.38	-9.09
225	-4.61	-1.79	-1.75	-1.66	0.40	5.05	5.73	5.25	0.51	1.56	1.27	-1.89	-9.09
240	-4.76	-1.45	-0.67	-0.87	0.45	3.75	3.96	3.07	1.61	3.47	1.17	-2.51	-9.09
255	-4.97	-1.73	-0.09	0.12	2.24	5.75	4.10	1.23	3.25	4.69	1.03	-2.13	-9.09
270	-5.13	-2.45	-0.62	0.16	2.16	4.69	2.87	1.44	3.62	4.08	-0.94	-1.63	-9.09
285	-5.01	-3.59	-1.52	-0.80	-0.02	3.50	2.19	1.67	2.97	3.15	-1.08	0.22	-9.09
300	-4.84	-4.63	-1.62	-1.35	-0.42	4.69	3.57	1.63	-1.65	3.07	0.64	1.64	-9.09
315	-4.79	-5.41	-1.12	-0.58	-0.46	4.48	3.95	3.29	-1.36	2.20	0.39	2.38	-9.09
330	-4.81	-5.73	-1.30	1.42	3.79	6.18	5.83	6.03	1.99	0.71	-0.18	2.45	-9.09
345	-4.85	-6.13	-2.57	1.85	4.27	5.84	3.16	4.25	0.34	0.08	1.30	1.86	-9.09

5700MHz Composite Gain of Ant1, Ant2 &Ant4													
Freq	5700												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.90	-2.27	0.45	0.81	3.08	6.38	6.46	5.64	0.96	-3.16	-4.08	-3.07	-10.43
15	-4.82	-1.76	1.26	1.31	3.22	6.19	5.82	4.54	0.80	-3.76	-2.38	-3.98	-10.43
30	-4.90	-1.64	1.60	1.95	0.21	5.02	5.18	3.11	-0.99	-4.02	-0.86	-5.11	-10.43
45	-5.02	-1.69	1.17	1.05	-1.20	5.55	6.20	4.16	-2.36	-3.20	-1.56	-4.75	-10.43
60	-4.86	-2.43	0.75	-1.22	-0.37	4.41	5.36	3.14	-0.15	-3.49	-3.69	-4.42	-10.43
75	-4.81	-3.08	0.41	0.16	-0.69	4.30	4.99	3.39	1.44	-1.55	-3.20	-4.26	-10.43
90	-4.61	-3.63	0.18	1.60	1.08	4.48	4.77	3.36	1.64	-0.62	-3.11	-4.35	-10.43
105	-4.55	-4.26	-0.59	1.13	1.37	3.59	1.26	1.90	0.45	-1.66	-3.45	-3.52	-10.43
120	-4.64	-4.50	-0.79	1.48	3.64	5.32	4.26	3.46	0.04	-1.31	-2.58	-2.99	-10.43
135	-4.68	-4.26	-0.25	2.19	3.46	4.44	2.53	-1.95	-2.97	1.45	-1.28	-2.25	-10.43
150	-4.71	-4.31	0.03	1.76	3.46	4.95	5.73	3.55	-0.24	3.88	-0.63	-3.34	-10.43
165	-4.76	-4.79	-0.86	0.61	3.10	5.71	6.67	4.89	0.22	1.86	-0.70	-3.76	-10.43
180	-4.60	-5.15	-1.97	2.44	4.30	6.58	6.68	5.32	2.25	-0.82	-0.65	-3.67	-10.43
195	-4.61	-4.67	-2.87	2.06	2.85	5.86	6.04	3.26	0.68	-1.97	-1.22	-3.29	-10.43
210	-4.53	-3.91	-2.17	0.31	1.71	5.69	5.43	3.54	1.42	-2.58	-1.93	-2.89	-10.43
225	-4.59	-2.46	-1.07	-0.25	1.67	5.47	4.58	3.95	1.58	-1.46	-1.62	-2.42	-10.43
240	-4.77	-1.08	0.14	0.80	2.03	5.08	3.59	2.58	2.13	0.08	-3.98	-3.38	-10.43
255	-4.92	-0.36	0.97	1.81	2.90	5.71	2.99	1.75	1.95	1.85	-4.93	-3.26	-10.43

270	-4.87	-0.36	0.73	1.80	2.73	4.84	1.71	0.96	0.64	-0.33	-8.34	-4.32	-10.43
285	-4.89	-0.89	-0.43	1.33	1.62	2.67	-0.15	-1.59	-0.54	-0.52	-3.85	-4.20	-10.43
300	-4.80	-1.53	-0.87	0.48	0.30	2.74	1.92	1.30	-2.17	-1.08	-3.46	-3.15	-10.43
315	-4.92	-2.09	0.06	0.55	-2.20	2.39	2.98	1.81	-2.32	-0.99	-6.19	-2.26	-10.43
330	-4.92	-2.27	0.63	2.16	1.49	5.59	6.41	4.41	-2.80	-0.56	-5.68	-2.42	-10.43
345	-5.00	-2.55	0.35	1.51	1.53	6.32	6.66	4.43	-0.60	-2.73	-4.59	-2.95	-10.43

Ant1													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-18.85	-15.81	-14.12	-7.86	-1.06	-0.32	2.13	2.06	-0.9	-4.46	-8.68	-7.95	-14.56
15	-19.95	-16.01	-16.32	-3.75	-0.96	-0.34	1.42	0.82	0.92	-8.92	-5	-6.17	-14.56
30	-21.8	-14.82	-13.76	-2.17	-2.85	-0.69	-0.24	-0.27	-1.48	-8.38	-2.71	-5.75	-14.56
45	-20.3	-12.5	-12.06	-5.1	-4.32	-0.67	1.88	-1.66	-4.71	-5.78	-4.13	-6.64	-14.56
60	-19.75	-10.15	-10.49	-15.09	-7.41	-1.32	2.21	-3.19	-4.26	-4.6	-8.35	-7.18	-14.56
75	-18.99	-9.08	-9.9	-12.85	-7.38	0.68	2.65	-0.09	-0.69	-2.94	-6.92	-6.45	-14.56
90	-16.77	-8.56	-9.74	-7.71	-7.07	2.1	2.65	1.44	0.14	-3.14	-5.44	-5.41	-14.56
105	-17.32	-8.72	-10.8	-7.35	-4.06	1.17	-0.51	-0.98	-2.43	-8.68	-10.08	-4.92	-14.56
120	-18.66	-9.45	-7.95	-2.79	-0.1	3.31	2.44	1.44	-3.91	-14.14	-7.89	-5.25	-14.56
135	-18.65	-10.92	-3.83	-0.35	1.27	-0.15	-2.96	-8.76	-12.82	-7.24	-4.19	-4.53	-14.56
150	-19.57	-12.65	-2.31	-2.8	-0.28	-3.63	3.84	1.17	-2.07	-0.84	-6.2	-6.84	-14.56
165	-19.31	-15.62	-4.59	-8.68	-1.15	1.18	4.43	0.46	-4.61	-2.34	-6.34	-8.82	-14.56
180	-18.45	-19.64	-10.48	-3.19	-0.19	3.57	2.68	0.19	-5.07	-5.39	-6.95	-11.92	-14.56
195	-18.5	-14.72	-22.76	-3.61	-4.07	-0.49	0.81	-2.87	-12.49	-8.7	-11.13	-14.56	-14.56
210	-18.71	-11.35	-11.59	-15.39	-6.47	-0.1	2.85	-1.65	-5.77	-13.59	-13.77	-13.52	-14.56
225	-19.07	-8.99	-7.68	-17.78	-4.6	1.14	2.15	-0.7	-6.25	-13.02	-9.85	-8.64	-14.56
240	-20.36	-7.38	-6.98	-12.15	-3.41	0.18	0.07	-2.63	-6.89	-8.9	-13.25	-9.32	-14.56
255	-21.29	-6.57	-6.62	-6.3	-0.79	1.42	-0.42	-1.44	-5.29	-6.64	-15.56	-8.39	-14.56
270	-22.02	-6.68	-6.5	-4.78	-2.45	1.04	-0.67	-3	-8.98	-11.17	-17.86	-7.61	-14.56
285	-22.44	-7.55	-6.48	-6.19	-5.39	-1.99	-3.83	-6.66	-15.57	-13.5	-16.25	-7.66	-14.56
300	-21.89	-8.73	-5.08	-7.72	-4.93	-1.24	-3.42	-4.89	-9.95	-9.35	-12.21	-8.13	-14.56
315	-20.92	-10	-3.89	-3.63	-5.36	-2.5	-2.38	-2.86	-6.57	-10.68	-9.46	-7.87	-14.56
330	-20.57	-12.28	-4.24	-1.97	-3.08	-2.63	-1.18	-0.14	-9.47	-7.8	-7.5	-7.55	-14.56
345	-20.8	-15.02	-8.08	-5.35	-4.6	-2.58	-2.34	0.28	-6.52	-8.16	-8.5	-8.43	-14.56

Ant2													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.76	-12.67	-13.09	-3.65	1.08	4.21	2.01	-1.71	-9.03	-12.89	-8.12	-8.44	-17.43
15	-12.92	-13.73	-8	-4.37	-0.03	1.38	0.24	-0.73	-9.16	-9.1	-10.85	-8.76	-17.43
30	-12.84	-14.38	-6.01	-7.76	-4.8	-0.98	0.99	-0.43	-9.42	-11.35	-12.64	-11.47	-17.43
45	-12.33	-16.34	-4.89	-9.22	-3.64	2.76	3.15	1.61	-6.38	-11.6	-16.55	-12.98	-17.43

60	-11.83	-19.05	-4.75	-9.24	-3.22	3.04	2.67	1.38	-5.49	-16.3	-13.1	-13.08	-17.43
75	-11.56	-18.5	-4.2	-6.48	-2.14	2.77	2.37	0.46	-3.93	-24.4	-14.56	-17.43	-17.43
90	-11.45	-18.02	-4.41	-4.14	-1.44	2.63	2.14	0.84	-5.62	-19.56	-19.03	-15.57	-17.43
105	-11.77	-17.06	-6.07	-3.68	-1.98	-2.32	-4.24	-5.89	-10.03	-12.64	-16.78	-11.22	-17.43
120	-12.24	-15.13	-8.85	-6.11	-1.14	0.83	0.6	-2.93	-10.85	-9.51	-13.44	-8.62	-17.43
135	-12.23	-13.28	-7.99	-5.27	-4.27	-3.62	-3.68	-6.03	-15.76	-18.07	-13.95	-9.86	-17.43
150	-11.8	-10.83	-6.95	-2.35	-0.51	0.51	-1.7	-3.28	-11.91	-8.41	-12.13	-12.34	-17.43
165	-11.37	-8.94	-7.31	-4.28	-1.32	1.04	0.15	-0.72	-5.07	-9.68	-14.43	-11.83	-17.43
180	-11.23	-7.61	-7.27	-5.28	-0.71	2.23	2.41	1.23	-0.73	-9.02	-13.3	-11.92	-17.43
195	-11.49	-6.75	-6.41	-5.41	-2.48	1.44	2.12	-0.12	-3.05	-8	-12.98	-11.08	-17.43
210	-11.9	-6.43	-5.75	-5.5	-4.6	1.02	1.99	0.73	-5.57	-7.36	-11.85	-8.19	-17.43
225	-12.42	-6.27	-3.75	-4.91	-5.39	0.81	1.04	1.25	-3.39	-7.05	-7.72	-6.82	-17.43
240	-12.59	-6.18	-3.07	-2.25	-2.46	1.52	-0.47	0.26	-0.78	-4.04	-6.93	-7.37	-17.43
255	-12.6	-6.38	-3.23	-1.02	-0.32	2.6	-0.71	-1.47	0.02	-1.38	-7.09	-7.16	-17.43
270	-12.46	-7.22	-4.21	-2.33	-1.76	2.3	0.27	-1.4	1.23	-1.33	-14.57	-12.61	-17.43
285	-12.56	-8.21	-5.34	-4.69	-3.77	-0.71	-2.88	-3.09	1.04	-1.43	-8.03	-14.2	-17.43
300	-12.45	-9.25	-6.23	-5.09	-4.11	0.75	0.58	-1.42	-2.97	-3.2	-5.83	-7.72	-17.43
315	-12.53	-10.18	-7.95	-10.39	-9.96	-1.79	-0.24	-2.07	-8.4	-3.96	-8.23	-6.23	-17.43
330	-12.62	-10.77	-10.12	-9.31	-1.06	4.34	4.45	2.88	-4.81	-2.54	-9.77	-6.84	-17.43
345	-12.85	-11.39	-14.61	-5.87	-0.16	3.81	2.82	-0.97	-7.68	-5.63	-5.49	-7.82	-17.43

Ant3													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.46	-5.63	-1.95	1.36	1.82	0.34	-3.55	-1.43	-6.74	-5.15	-0.22	1.74	-9.64
15	-3.43	-5.12	-0.16	0.73	2.07	-0.49	-2.24	-1.83	-7.83	-6.07	-1.69	-0.8	-9.64
30	-3.61	-3.5	0.69	0.93	1.75	0.9	-2.26	-1.19	-4.3	-4.63	-3.79	-3.65	-9.64
45	-3.9	-1.57	0.34	1.24	-0.09	0.35	-2.44	-0.97	-1.74	-4.63	-7.88	-5.21	-9.64
60	-4.17	-0.28	0.88	-0.8	-0.76	-3.27	-5.88	-1.17	1.26	-2.57	-14.8	-5.16	-9.64
75	-4.15	0.14	1.14	2.47	-2.29	-6.62	-4.63	-5.19	-4.58	-4.36	-12.67	-5.03	-9.64
90	-3.97	-0.26	0.54	1.86	-0.81	-0.22	-2.6	0.67	0.14	-7.17	-9.11	-5.57	-9.64
105	-3.82	-0.92	0.31	-1.78	-2.7	-1.21	-1.63	-2.26	-1.9	-7.63	-13.19	-5.38	-9.64
120	-3.78	-1.59	0.03	-2.72	-1.7	0.77	1.83	-0.92	-1.51	-5.71	-15.93	-5.24	-9.64
135	-3.95	-1.92	-0.94	-2.21	-1.92	0.93	3.21	1.67	-1.32	-8.22	-12.69	-4.66	-9.64
150	-4.38	-2.38	-2.7	-4.35	-5.56	-0.33	1.51	1.84	-0.94	-10.8	-5.99	-6.67	-9.64
165	-4.78	-2.49	-4.35	-5.68	-12.68	-1.14	-0.67	-2.22	-4.42	-13.48	-4.2	-9.64	-9.64
180	-4.99	-2.38	-5.24	-2.38	-4.03	-8.64	-3.11	-2.72	-6.39	-12.93	-3.26	-8.65	-9.64
195	-4.84	-2.96	-7.45	-1.67	-1.78	-2.57	-2.7	-5.3	-2.35	-4.52	0.25	-7.85	-9.64
210	-4.67	-4.33	-7.07	-2.29	-2.29	0.21	-0.3	-1.94	-0.93	-3.65	3.34	-6.55	-9.64
225	-4.59	-5.18	-6.17	-3.7	-5.92	-2.5	-0.56	2.05	-2.74	2.65	1.8	-4.27	-9.64
240	-4.42	-5.49	-5.91	-5.05	-10.21	-6.72	-2.85	-2.76	-3.37	4.12	2.29	-4.8	-9.64
255	-4.52	-6.45	-5.11	-8.48	-6.98	-1.63	-1.77	-9.61	-0.89	4.52	2.59	-4.48	-9.64
270	-4.36	-8.39	-6.04	-6.82	-3.64	-3.59	-3.74	-5.64	0.97	5.46	1.85	-1.2	-9.64

285	-4.35	-8.84	-6.94	-6.58	-5.73	-1.53	-0.74	-0.06	1.07	3.03	-0.87	1.42	-9.64
300	-4.46	-8.07	-5.06	-3.49	-5.32	0.03	0.04	-3.61	-6.55	2.87	0.6	2.62	-9.64
315	-4.54	-7.28	-3.49	-0.97	-3.22	1.88	-0.2	0.17	-3.25	2.03	0.56	3.35	-9.64
330	-4.22	-6.38	-2.76	-0.72	-0.63	1.64	-1.48	2.11	1.81	-3.4	-0.94	3.74	-9.64
345	-3.92	-5.81	-2.54	0.02	1.71	0.96	-6.43	-0.91	0.21	-3.29	0.42	3.32	-9.64

Ant4													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.13	0.44	2.85	-2.17	-5	1.65	1.99	2.24	-2.41	-11.6	-11.31	-5.92	-12.52
15	-4.2	0.64	3.77	-1.77	-4.26	2.6	1.67	-0.81	-6.16	-9.83	-6.85	-10.95	-12.52
30	-4.42	0.22	3.52	0.89	-7.04	1.33	-0.46	-4.41	-8.53	-9.3	-4.44	-12.52	-12.52
45	-4.54	-1.02	2.4	1.67	-9.57	-0.64	-0.16	-1.39	-9	-7.59	-3.36	-8.92	-12.52
60	-4.74	-2.61	0.63	0.55	-4.28	-6.6	-4.1	-4.4	-3.71	-7.13	-6.55	-7.99	-12.52
75	-4.57	-3.94	-0.06	0.75	-8.23	-8.56	-5.71	-6.7	-4.3	-3.74	-4.52	-6.31	-12.52
90	-4.41	-4.72	-0.75	1.04	-5.11	-8.03	-11.53	-7.62	-3.27	-2.58	-3.95	-7.46	-12.52
105	-4.16	-5.23	-1.65	-0.99	-4.64	-4.52	-8.06	-3.75	-1.74	-2.18	-2.97	-7.65	-12.52
120	-4.12	-5.41	-2.89	-1.86	-3.64	-2.78	-5.73	-2.53	-0.91	-0.53	-3.47	-7.79	-12.52
135	-4.33	-5.7	-3.61	-1.65	-1.96	1.61	-1	-8.07	-2.12	2.81	-3.28	-5.88	-12.52
150	-4.67	-6.14	-3.61	-2.23	-2.37	2.12	1.65	-1.01	-3.03	2.44	-1.51	-5.01	-12.52
165	-4.73	-6.67	-3.86	-2.02	-2.57	-0.94	0.42	0.43	-1.61	-0.95	-1.56	-5.08	-12.52
180	-4.65	-7.36	-3.66	-0.48	0.25	-0.45	0.92	-0.01	-0.45	-4.12	-1.43	-3.42	-12.52
195	-4.3	-8.19	-4.12	-0.12	0.31	1.79	1.87	-1.23	-1.67	-3.85	-0.99	-2.17	-12.52
210	-4.02	-8.69	-4.76	0.09	-0.52	1.61	-1.47	-2.38	-0.67	-3.41	-1.8	-2.74	-12.52
225	-3.94	-7.51	-6.23	-1.05	-1.03	0.73	-4.08	-3.46	-0.57	-2.02	-3.05	-4.53	-12.52
240	-4.07	-5.03	-4.06	-2.28	-2.82	-1.17	-5.19	-5.18	-1.97	-2.79	-6.25	-6.01	-12.52
255	-4.21	-2.99	-1.95	-2.46	-4.89	-1.85	-6.6	-8.19	-3.89	-1.72	-8.18	-6.55	-12.52
270	-4.36	-2.02	-1.04	-2.06	-2.81	-5.24	-9.95	-8.69	-6.54	-3.74	-8.97	-6	-12.52
285	-4.34	-1.95	-2.14	-1.47	-1.42	-4.09	-9.18	-9.71	-10.55	-4.56	-5.13	-6.61	-12.52
300	-4.31	-1.92	-2.81	-0.93	-3.44	-7.9	-5.66	-4.27	-9.58	-5.97	-6.75	-6.97	-12.52
315	-4.13	-1.56	-1.42	0.23	-6.5	-4.07	-2.88	-3.73	-5.83	-3.9	-13.84	-6.14	-12.52
330	-4.13	-0.98	0.35	0.69	-7.63	0.34	2.22	-2.3	-10.24	-7.59	-14.92	-5.9	-12.52
345	-4.07	-0.25	1.88	-0.96	-5.79	3.04	4.48	0.41	-1.56	-9.23	-17.98	-5.43	-12.52

5750MHz Composite Gain of Ant1, Ant2 &Ant3													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.64	-5.52	-3.06	2.20	5.47	6.42	5.34	4.59	-0.08	-1.99	0.02	1.25	-8.50
15	-4.77	-5.51	-1.06	2.62	5.23	5.00	4.71	4.26	0.65	-3.14	-0.31	0.18	-8.50
30	-5.04	-4.42	0.28	2.47	3.25	4.55	4.37	4.15	0.29	-2.91	-0.63	-1.61	-8.50
45	-4.98	-3.01	0.61	1.49	2.29	5.71	5.94	4.55	0.71	-2.08	-3.38	-2.91	-8.50
60	-4.97	-1.91	1.18	-1.65	1.39	4.67	5.22	3.98	2.46	-1.33	-6.87	-3.11	-8.50
75	-4.80	-1.33	1.58	1.38	1.15	4.55	5.49	3.51	1.88	-1.98	-5.98	-3.40	-8.50

90	-4.38	-1.43	1.21	2.35	2.08	6.36	5.80	5.76	3.38	-2.90	-4.80	-2.98	-8.50
105	-4.45	-1.81	0.44	0.80	1.90	4.11	2.78	1.97	0.69	-4.63	-8.16	-1.97	-8.50
120	-4.70	-2.20	0.16	1.04	3.82	6.49	6.43	4.15	0.16	-4.35	-6.98	-1.46	-8.50
135	-4.81	-2.47	0.98	2.39	3.43	4.03	4.21	1.57	-2.83	-5.24	-4.35	-1.25	-8.50
150	-5.07	-2.62	1.02	1.65	2.97	3.80	6.28	4.96	0.98	-0.82	-2.91	-3.48	-8.50
165	-5.17	-2.67	-0.55	-1.25	1.11	5.19	6.38	4.01	0.08	-2.47	-2.57	-5.23	-8.50
180	-5.15	-2.62	-2.63	1.24	3.29	5.25	5.81	4.49	1.06	-3.81	-2.15	-5.92	-8.50
195	-5.14	-2.14	-4.99	1.34	2.05	4.38	5.08	2.27	-0.14	-2.10	-1.07	-5.97	-8.50
210	-5.18	-2.13	-3.03	-1.43	0.49	5.16	6.38	3.90	0.98	-2.53	0.94	-4.18	-8.50
225	-5.31	-1.90	-0.94	-2.16	-0.52	4.74	5.72	5.71	0.77	1.35	1.09	-1.62	-8.50
240	-5.38	-1.54	-0.39	-0.81	0.03	3.77	3.78	3.18	1.44	3.51	1.12	-2.19	-8.50
255	-5.54	-1.70	-0.10	0.09	2.56	5.74	3.82	1.35	3.01	4.78	1.06	-1.75	-8.50
270	-5.47	-2.63	-0.75	0.32	2.19	5.03	3.55	1.60	3.61	4.80	-0.95	-1.13	-8.50
285	-5.52	-3.41	-1.46	-1.01	-0.15	3.38	2.39	1.91	2.92	3.11	-1.51	0.27	-8.50
300	-5.52	-3.90	-0.67	-0.49	0.00	4.66	4.01	1.58	-1.26	2.92	0.47	1.90	-8.50
315	-5.50	-4.28	-0.12	0.60	-0.98	4.19	3.89	3.28	-1.04	2.04	0.29	2.70	-8.50
330	-5.28	-4.66	-0.40	1.51	3.25	6.34	5.82	6.48	1.85	0.48	-0.45	2.88	-8.50
345	-5.16	-5.13	-2.31	1.47	4.14	5.89	3.61	4.26	0.85	-0.70	1.06	2.28	-8.50

5750MHz Composite Gain of Ant1, Ant2 &Ant4													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.07	-1.56	0.37	0.53	3.46	6.82	6.81	5.82	1.31	-4.04	-4.49	-2.60	-9.84
15	-5.28	-1.60	1.65	1.55	3.20	6.07	5.90	4.56	1.04	-4.50	-2.47	-3.64	-9.84
30	-5.59	-1.86	2.10	2.45	0.04	4.72	4.89	3.27	-0.93	-4.82	-0.88	-4.60	-9.84
45	-5.39	-2.64	1.83	1.73	-0.70	5.41	6.50	4.42	-1.75	-3.23	-1.55	-4.36	-9.84
60	-5.32	-3.46	1.04	-0.76	-0.02	4.00	5.53	3.07	0.32	-3.32	-4.15	-4.28	-9.84
75	-5.06	-3.90	0.94	0.30	-0.71	4.27	5.30	3.21	1.95	-1.71	-2.96	-3.99	-9.84
90	-4.65	-4.11	0.55	1.92	0.55	4.84	4.48	3.85	2.18	-0.99	-2.62	-3.74	-9.84
105	-4.65	-4.31	-0.62	1.14	1.29	3.20	1.04	1.46	0.76	-1.98	-3.42	-2.79	-9.84
120	-4.92	-4.36	-1.38	1.37	3.27	5.57	4.52	3.67	0.45	-1.41	-2.58	-2.33	-9.84
135	-5.05	-4.60	-0.15	2.59	3.42	4.31	2.30	-2.77	-3.37	0.99	-1.23	-1.71	-9.84
150	-5.25	-4.65	0.69	2.31	3.77	4.76	6.32	3.92	0.08	3.57	-0.81	-2.78	-9.84
165	-5.14	-4.89	-0.36	0.20	3.11	5.25	6.67	4.84	1.15	1.20	-1.21	-3.37	-9.84
180	-4.95	-5.22	-1.92	2.01	4.56	6.71	6.81	5.26	2.93	-1.17	-1.17	-3.32	-9.84
195	-4.82	-4.49	-3.38	2.01	2.88	5.74	6.39	3.44	0.17	-1.80	-1.88	-2.87	-9.84
210	-4.77	-3.82	-2.12	-0.10	1.27	5.64	6.09	3.78	1.10	-2.41	-2.67	-2.30	-9.84
225	-4.89	-2.75	-0.96	-0.78	1.31	5.67	4.87	4.01	1.67	-1.48	-1.62	-1.73	-9.84
240	-5.16	-1.37	0.22	0.28	1.88	5.02	3.21	2.54	1.93	-0.10	-3.52	-2.69	-9.84
255	-5.34	-0.38	1.05	1.78	3.00	5.69	2.62	1.59	2.02	1.83	-4.78	-2.56	-9.84
270	-5.47	-0.21	1.15	1.80	2.44	4.71	2.37	0.93	1.16	0.26	-8.24	-3.54	-9.84
285	-5.52	-0.65	0.32	0.88	1.40	2.62	-0.12	-1.30	-0.74	-0.42	-3.91	-4.13	-9.84
300	-5.42	-1.18	0.18	0.65	0.63	2.69	2.33	1.38	-2.10	-1.05	-3.07	-2.82	-9.84

315	-5.24	-1.47	0.75	1.20	-2.29	2.04	3.02	1.91	-2.10	-0.88	-5.43	-1.94	-9.84
330	-5.22	-1.69	1.10	2.16	1.26	5.93	6.90	5.18	-3.05	-0.85	-5.44	-1.97	-9.84
345	-5.26	-1.73	0.44	1.00	1.61	6.62	6.88	4.70	-0.06	-2.77	-4.48	-2.36	-9.84

Ant5													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.03	-6.95	-8.01	-5.36	-8.65	-13.6	-14.31	-8.55	-9.96	-9.6	-15.59	-14.88	-14.88
15	-15.7	-7.56	-9.31	-8.58	-11.62	-14.79	-19.2	-8.98	-12.22	-7	-13.35	-10.45	-14.88
30	-16.48	-8.76	-10.24	-9.06	-12.15	-16.26	-16.41	-23.36	-9.01	-5.74	-10.92	-8.28	-14.88
45	-16.84	-10.61	-12.67	-11.14	-14.47	-17.46	-12.01	-13.13	-10.74	-11.6	-10.96	-8.16	-14.88
60	-16.76	-13.49	-13.28	-11.91	-20.29	-12.96	-12.03	-11.82	-23.24	-11.84	-12.93	-7.57	-14.88
75	-16.54	-17.63	-12.68	-8.56	-24.13	-13.05	-17.34	-12.58	-14.43	-10.8	-11.65	-9.24	-14.88
90	-16.55	-19.41	-12.14	-11.55	-26.98	-8.76	-10.43	-7.86	-16.15	-14.46	-10.16	-8.64	-14.88
105	-16.1	-20.39	-8.22	-10.65	-18.61	-6.61	-8.59	-6.69	-10.1	-8.23	-10.19	-6.73	-14.88
120	-15.36	-18.6	-7.59	-11.24	-17.46	-5.01	-5.29	-2.59	-7.08	-7.86	-12.8	-6.76	-14.88
135	-14.8	-15.73	-9.16	-10.34	-12.06	-4.48	-5.08	-2.47	-4.7	-6.58	-11.96	-6.06	-14.88
150	-15.25	-15.6	-7.93	-8.25	-6.31	-2.73	-1.48	0.34	-1.79	-6.94	-10.21	-6.53	-14.88
165	-15.69	-16.01	-6.6	-5.78	-4.06	0.07	2.71	2.09	0.93	-2.73	-6.66	-6.37	-14.88
180	-15.73	-15.73	-6.07	-3.02	-3.16	2.85	4.04	3.2	0.61	-2.29	-4.59	-5.26	-14.88
195	-15.96	-14.49	-3.76	-1	-0.39	5.55	5.36	2.22	1.36	-2.92	-3.18	-4.69	-14.88
210	-15.43	-13.53	-3.49	0.65	3.04	6.55	7.84	5.2	3.84	-1.44	-3.68	-5.51	-14.88
225	-14.75	-14.39	-2.13	2.2	4.27	6.13	5.26	4.81	4.67	2.16	-3.32	-4.55	-14.88
240	-14.81	-15.37	-2.32	3.49	3.93	5.06	4.12	2.96	3.5	3.34	-2.94	-3.19	-14.88
255	-14.84	-13.87	-2.31	3.5	3.48	3.5	1.08	2.62	-0.45	2.52	-3.65	-2.82	-14.88
270	-14.43	-10.63	-2.52	2.07	0.87	0.6	1.13	2.04	-3.23	-1.67	-3.82	-1.44	-14.88
285	-15.57	-7.89	-1.38	0.44	-3.85	-2.53	-2.19	-0.43	-3.25	-4.7	-1.15	-1.59	-14.88
300	-16.57	-5.91	-0.61	-0.05	-2.31	-1.56	-2.13	-1.85	-6.68	-7.78	-7.34	-3.31	-14.88
315	-16.76	-5.21	-1.4	-1.85	-1.47	-5.86	-1.04	-7.52	-17.39	-10.42	-11.63	-6.69	-14.88
330	-16.15	-5.56	-4.22	-4.64	-5.98	-8.07	-2.39	-3.17	-13.7	-19.98	-15.3	-9.98	-14.88
345	-15.52	-6.33	-5.81	-4.84	-8.55	-11.29	-6.15	-6.76	-7.44	-11.24	-14.94	-12.95	-14.88

Ant6													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.63	-3.39	-3.44	-0.12	0.27	0.55	-0.36	-1.89	-0.13	-0.4	-2.35	-5.41	-18.36
15	-4.66	-3.93	-4.75	-2.76	-2.67	-1.33	-2.9	-5.25	-3	-4.04	-3.73	-3.97	-18.36
30	-4.51	-5.03	-6.77	-2.15	-2.76	-3.95	-5.68	-3.73	-5.02	-5.42	-6.69	-6.34	-18.36
45	-4.42	-6.71	-5.72	-6.97	-5.29	-3.93	-10.44	-6.34	-8.1	-4.91	-6.84	-8.43	-18.36
60	-4.41	-8.71	-8.65	-5.51	-10.14	-7.25	-8.94	-6.42	-7.27	-10.35	-10.01	-7.52	-18.36
75	-4.38	-9.63	-10.21	-11.1	-10.84	-10.65	-13.07	-12.32	-10.94	-6.59	-10.3	-10.32	-18.36
90	-4.24	-10.17	-10.57	-9.7	-11.28	-12.36	-12.92	-10.49	-13.01	-13.55	-13.68	-15.56	-18.36

105	-4.21	-10.37	-15.18	-12.51	-15.16	-16.1	-17.76	-15.73	-11.24	-12.1	-15.92	-17.09	-18.36
120	-4.07	-9.76	-13.21	-14.62	-15.74	-12.46	-11.25	-15.8	-18.72	-15.35	-13.81	-18.36	-18.36
135	-4.16	-9.02	-9.32	-9.47	-23.03	-24.14	-13.96	-13.03	-14.77	-14.44	-13.86	-17.57	-18.36
150	-4.14	-7.95	-8.85	-15.6	-13.63	-17.32	-12.04	-12.78	-13.85	-10.91	-20.93	-15.69	-18.36
165	-4.25	-6.91	-10.96	-21.18	-21.95	-10.68	-11.39	-8.06	-9.78	-9.8	-18.31	-10.69	-18.36
180	-4.23	-5.71	-13	-15.37	-14.2	-15.8	-10.62	-5.75	-9.58	-10.02	-13.54	-8.77	-18.36
195	-4.27	-4.43	-8.99	-9.98	-9.7	-18.21	-9.89	-6.36	-11.55	-9.33	-14.23	-8.8	-18.36
210	-4.15	-3.11	-7.6	-7.8	-5.93	-14.23	-8.54	-3.91	-9.72	-10.94	-14.13	-7.52	-18.36
225	-4.3	-2.71	-6.06	-7.15	-3.9	-5.58	-8.79	-3.43	-11.74	-13.49	-15.05	-6.93	-18.36
240	-4.49	-2.42	-2.25	-4.89	-2.63	-1.22	-5.05	-2.59	-8.78	-9.28	-15.6	-4.72	-18.36
255	-4.71	-1.84	-2.34	-2.12	-0.75	0.9	-1.88	-1.29	-3.63	-7.08	-6.37	-2.02	-18.36
270	-4.62	-1.38	-0.97	-0.28	-0.77	1.99	1.32	1.87	-0.98	-2.52	-3.88	-1.65	-18.36
285	-4.73	-1.24	-0.97	0.66	0.81	3.42	2.53	4.13	3.43	-8.25	-7.23	-0.55	-18.36
300	-4.6	-1.63	-1.59	1.3	2.57	3.07	3.83	6.34	1.8	2.86	-7.58	0.6	-18.36
315	-4.57	-2.15	-1.68	1.53	2.93	4.24	4.42	6.65	3.74	5.04	-5.49	1.08	-18.36
330	-4.79	-2.59	-1.72	0.93	2.38	4.34	3.74	5.28	5.36	1.35	-2.03	-0.41	-18.36
345	-4.86	-2.98	-2.62	-0.18	0.87	1.68	2.56	3.49	1.7	0.96	0.27	-4.05	-18.36

Ant7													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.4	-7.32	-0.55	0.43	1.42	3.17	3.56	0.71	0.89	0.37	-1.54	-6.35	-13.95
15	-9.8	-6.95	-0.75	1.6	3.3	4.54	3.99	6.05	2.2	2.78	-0.03	-5.19	-13.95
30	-10.08	-7.54	-1.34	0.75	2.31	3.81	2.58	3.95	2.21	3.33	1.25	-3.64	-13.95
45	-9.83	-9.14	-3.54	-1.96	-1.34	0.78	2.55	2.74	1.53	3.43	2.03	-3.61	-13.95
60	-9.67	-10.65	-5.85	-6.16	-6.59	-4.69	1.96	1.91	4.1	2.8	1.79	-3.29	-13.95
75	-9.69	-10.59	-9.01	-12.7	-7.62	-4.56	0.93	1.84	1.97	1.3	-0.25	-5.11	-13.95
90	-9.86	-8.88	-6.63	-6.36	-8.65	-1.51	0.32	-0.9	-1.97	-3.12	-4.35	-6.3	-13.95
105	-10.11	-7.6	-4.82	-5.35	-14.77	-1.58	2.78	3.08	-6.73	-6.74	-5.36	-5.93	-13.95
120	-10.23	-7.26	-5.44	-7.42	-11.53	-5.77	-5.72	0.05	-5.7	-11.73	-5.19	-6.52	-13.95
135	-10.11	-7.43	-6.59	-8.71	-11.61	-10.74	-4.31	-4.53	-6.13	-11.03	-6.75	-6.78	-13.95
150	-10.2	-7.25	-7.7	-7.8	-2.56	-1.93	-6.32	-4.93	-4.35	-8.53	-11.36	-8.91	-13.95
165	-10.16	-7.18	-8.77	-5.7	-1.58	-0.49	-7.6	-11.62	-3.96	-7.99	-12.52	-10.99	-13.95
180	-10.12	-8.48	-10.37	-5.67	-3.08	-3.56	-10.6	-9.5	-5.17	-6.73	-15.73	-13.95	-13.95
195	-10.16	-10.04	-10.91	-9.13	-5.27	-8.43	-20.55	-7.53	-9.31	-6.64	-16.03	-13.6	-13.95
210	-10.02	-10.6	-12.03	-14.81	-7.97	-15.75	-16.6	-14.01	-8.51	-8.15	-11.86	-13.66	-13.95
225	-9.76	-12.01	-10.43	-14.97	-17.46	-16.85	-17.11	-11.03	-13.17	-9.91	-12.3	-13.76	-13.95
240	-9.68	-13.72	-9.49	-10.04	-15.43	-11.08	-10.97	-9.82	-12.62	-10.37	-22.78	-12.43	-13.95
255	-9.73	-13.47	-9.76	-8.19	-10.93	-11.72	-11.87	-11.86	-17.35	-11.42	-11.41	-10.75	-13.95
270	-9.64	-12.46	-10.55	-8	-18.16	-9.92	-6.2	-6.04	-9.72	-9.63	-14.97	-12.47	-13.95
285	-9.85	-12.14	-9.96	-7.43	-14.21	-8.78	-5.63	-3.53	-8.7	-10.52	-13.71	-12.71	-13.95
300	-9.87	-11.35	-6.73	-6.44	-18.02	-6.18	-1.43	-2.68	-7.79	-7.84	-10.55	-11.04	-13.95
315	-9.5	-9.67	-3.63	-4.74	-12.99	-2.94	0.22	-2.39	-6.17	-9.83	-12	-11.41	-13.95

330	-9.21	-8.21	-1.7	-3.53	-5.85	1.18	1.94	-0.84	-4.37	-7.57	-7.9	-10.22	-13.95
345	-9.3	-7.8	-0.95	-1.86	-0.45	2.37	2.58	0.67	-0.54	-3.96	-4.07	-8.55	-13.95

Ant8													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.32	-7.36	-4.57	-4.27	-2.83	-0.69	-5.85	-2.22	0.87	-7.27	-10.86	-10.4	-16.11
15	-6.39	-6	-3.99	-3.54	-0.24	2.35	-3.33	-2.56	2	-6.22	-11.33	-8.59	-16.11
30	-6.55	-4.4	-2.64	-3.83	-2.1	0.49	-2.22	-7.26	-3.51	-6.47	-7.97	-7.47	-16.11
45	-6.46	-3.5	-1.91	-2.22	-6.35	-12.14	-5.58	-13.39	-9.75	-3.11	-7.86	-5.24	-16.11
60	-6.6	-3.48	-2.15	-2.35	-3.18	-3.13	-4.46	-10.59	-4.75	-2.24	-4.99	-4.41	-16.11
75	-7.07	-3	-1.92	-3.66	-5.09	-6.42	-1.02	-0.91	1.27	-3.39	-4.94	-3.68	-16.11
90	-7.22	-2.75	-3.05	-5.07	-0.12	3.6	2.17	2.25	3.93	-1.22	-3.76	-3.87	-16.11
105	-7.37	-3.07	-4.22	-2.16	-0.39	3.85	3.44	0.95	0.83	-1.64	-3.63	-4.54	-16.11
120	-7.61	-3.32	-3.91	-0.21	-1.01	0.69	1	3.64	3.59	0.87	-2.73	-5.39	-16.11
135	-7.66	-3.22	-2.97	0.92	0.18	2.31	0.85	3.65	1.57	1.94	-1.99	-4.97	-16.11
150	-7.51	-3.1	-1.44	0.98	1.61	1.92	0.17	1.34	-3.01	-2.58	-2.23	-5.17	-16.11
165	-7.44	-3.17	-1.16	-0.05	-0.45	1.99	3.65	3.25	0.37	-4.7	-4.81	-6.76	-16.11
180	-7.42	-3.57	-2.68	-2.45	-4.02	2.9	5.63	4.84	2.34	-3.07	-9.1	-9.01	-16.11
195	-7.53	-4.41	-4.62	-5.41	-3.05	2.23	4.65	6.17	1.66	-3.09	-11.88	-10.64	-16.11
210	-7.6	-5.48	-6.02	-10.17	-4.2	0.76	-0.63	3.01	-0.23	-3.61	-9.69	-9.1	-16.11
225	-7.56	-7.08	-8.79	-8.45	-7.84	-1.62	-1.94	0.79	-2.75	-5.22	-8.18	-10.71	-16.11
240	-7.15	-9.96	-12.14	-8.95	-9.75	-3.63	-6.97	-2.3	-3.01	-5.19	-8.09	-9.76	-16.11
255	-6.64	-14.14	-15.04	-15.63	-7.62	-9.42	-8.62	-9.85	-4.84	-6.17	-9.41	-9.75	-16.11
270	-6.48	-16.25	-19.12	-18.05	-12.42	-4.8	-13.81	-10.75	-11.28	-5.98	-6.06	-7.85	-16.11
285	-6.52	-15.37	-14.03	-11.82	-18.2	-7.25	-14.03	-10.83	-12.66	-9.47	-8.27	-6.59	-16.11
300	-6.54	-15.05	-8.48	-3.86	-8.51	-5.61	-10.3	-14.25	-11.5	-8.01	-11.01	-8.6	-16.11
315	-6.38	-14.43	-6.3	-3.59	-7.27	-6.38	-13.74	-10.73	-9.33	-18.72	-6.88	-13.32	-16.11
330	-6.31	-11.65	-5.75	-7.19	-4.99	-7.3	-9.45	-12.35	-5.47	-5.31	-8.25	-16.11	-16.11
345	-6.34	-9.19	-5.15	-7.26	-3.51	-5.24	-6.39	-5.69	-1.54	-5.51	-8.91	-11.28	-16.11

Ant9													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.79	-4.32	-1.92	1.56	-0.21	-0.84	-3.82	-1.82	0.8	2.58	-0.15	2.68	-5.61
15	-4.86	-4.16	-1.55	0.82	-3.94	-3.01	-1.01	-1.27	1.08	2.06	1.14	2.98	-5.61
30	-4.82	-4.54	-2.87	-2.28	-5.56	1.31	0.84	2.31	-0.8	2.16	1.89	4.62	-5.61
45	-4.72	-4.99	-4.09	-5.82	-1.56	2.68	1.18	0.8	-1.11	1.19	0.16	2.62	-5.61
60	-4.51	-5.44	-4.1	-2.1	0.48	2.59	-1.28	-3.93	-3.23	-2.2	-3.17	1.59	-5.61
75	-4.45	-6.03	-2.09	0.62	-1.29	2.6	0.17	0.57	-2.46	-2.5	-5.67	1	-5.61
90	-4.4	-6.54	-1.05	0.82	-3.54	0.48	-4.57	-1.43	-9.38	-5.56	-4.68	1.64	-5.61
105	-4.61	-7.12	-1.7	-1.79	-2.6	-2.01	-3.75	-2.91	-9.29	-9.17	-6.29	1.67	-5.61
120	-4.79	-7.35	-3.88	-4.21	-5.17	-4.35	-3.56	-3.97	-12.76	-9.52	-8.12	0.65	-5.61

135	-4.86	-7.53	-7.91	-8.85	-15.93	-7.11	-1.17	-4.8	-10.08	-12.32	-6.64	-0.29	-5.61
150	-4.74	-8.62	-10.68	-7.22	-15.95	-9.11	-3.8	-5.33	-7.33	-9.49	-13.99	-2.68	-5.61
165	-4.56	-9.24	-11.37	-8.09	-14.46	-12.57	-7.05	-10.13	-8.11	-9.78	-3.96	-4.22	-5.61
180	-4.5	-7.94	-12.54	-7.29	-11.33	-16.52	-15.08	-10.41	-12.6	-9.68	-4.57	-4.97	-5.61
195	-4.64	-7.39	-11.16	-7.62	-8.58	-18.82	-14.42	-7.98	-13.5	-6.17	-4.52	-4.7	-5.61
210	-4.8	-6.75	-9.04	-14.16	-14.08	-22.09	-12.85	-13.06	-7.51	-5.9	-5.49	-4.38	-5.61
225	-4.91	-6.12	-6.74	-8.97	-15.85	-12.48	-14.96	-9.43	-10.6	-12.86	-7.86	-5.61	-5.61
240	-4.9	-5.98	-7.97	-15.27	-13.77	-8.53	-15.03	-9.19	-14.49	-10.25	-6.03	-2.33	-5.61
255	-4.85	-6.56	-12.7	-12.41	-11.07	-11.72	-11.07	-11.05	-10.41	-11.29	-11.13	-2.42	-5.61
270	-4.89	-7.69	-15.03	-10.54	-9.28	-11.62	-9.05	-7.3	-15.72	-8.87	-6.76	-3.35	-5.61
285	-4.9	-8.36	-15.62	-10.38	-5.54	-19.29	-7.64	-2.64	-8.22	-2.61	-5.13	-2.86	-5.61
300	-4.83	-8.29	-11.8	-4.88	-4.46	-13.54	-5.2	-5.35	-5.65	-5.13	-1.85	-1.21	-5.61
315	-4.76	-6.89	-5.66	0.09	-1.97	-7.69	-4.46	-7.43	-6.16	-2.41	-0.77	-0.03	-5.61
330	-4.65	-5.51	-3.85	2.19	0.54	-3.65	-4.71	-6.25	-4.52	0.22	-0.86	0.75	-5.61
345	-4.73	-4.52	-2.61	2.18	1.24	-2.15	-4.11	-5.03	-2.98	1.55	-0.22	1.82	-5.61

Ant10													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.83	-1.55	-2.01	-10.27	-2.04	-5.94	-0.78	3.16	-4.7	-3.19	-4.18	-4.09	-11.99
15	-2.7	-2.36	-1.36	-6.95	-6.27	-4.86	-1.27	-1.87	-4.78	-1.1	-1.6	-2.61	-11.99
30	-2.55	-3.16	-2.62	-4.93	-14.06	-9.89	-5.29	-3.38	-3.38	-2.03	0.77	-0.47	-11.99
45	-2.62	-3.68	-5.07	-6.49	-15	-7.38	-3.77	-3.27	-0.55	-2.05	1.75	0.83	-11.99
60	-2.79	-3.97	-4.58	-5.27	-9.1	-3.35	-8.99	0.39	-2.05	-0.5	1.37	1.22	-11.99
75	-2.94	-3.73	-3.51	-4.15	-7.61	-3.63	-1.22	-3.84	-6.34	-0.88	0.16	0.6	-11.99
90	-2.83	-3.31	-2.78	-2.38	-4.72	-5.67	-3.76	0.71	-0.06	-1.61	-1.83	-1.12	-11.99
105	-2.72	-3.09	-2.82	-1.72	-1.81	-1.7	-6.91	-0.5	0.99	-0.66	-1.36	-0.83	-11.99
120	-2.56	-3.07	-3.43	-1.63	-1.48	-0.6	0.3	-1.02	0.17	-0.43	-2.1	0.45	-11.99
135	-2.62	-3.03	-4.07	-1.62	-1.39	-1.29	-1.9	-0.89	-0.82	0.17	-3.79	-0.02	-11.99
150	-2.84	-3.09	-4.34	-1.46	-2.16	0.03	-2.15	-2.33	-0.4	-1.95	-3.74	-0.97	-11.99
165	-3.17	-3.17	-3.9	-2.62	-2.75	0.08	0.32	-2.18	-2.15	-5.62	-5.83	-2.77	-11.99
180	-3.19	-2.99	-2.98	-2.74	-3.8	-0.12	-1.87	-2.27	-6.92	-12.09	-10.66	-3.63	-11.99
195	-3.13	-2.68	-1.93	-0.18	-2.8	-1.65	-6.38	-4.34	-12	-12.55	-13.31	-5.75	-11.99
210	-3.04	-2.51	-1.85	1.62	-1.06	-0.37	-3.41	-3.44	-5.72	-16.25	-12.64	-9.26	-11.99
225	-2.82	-2.92	-2.2	0.99	-0.65	-4.21	-6.72	-7.19	-12.12	-9.82	-12.83	-11.99	-11.99
240	-2.8	-3.62	-2.61	0.01	-2.82	-5.94	-5.99	-5.45	-12.27	-14.33	-10.78	-10.44	-11.99
255	-3.01	-3.44	-1.82	-0.12	-3.52	-3.01	-6.36	-5.06	-10.78	-14.4	-12.78	-10.57	-11.99
270	-3.19	-2.72	-1.15	-0.16	-5.17	-3.82	-5.49	-6.9	-11.95	-11.77	-17.81	-11.14	-11.99
285	-3.11	-2.14	-1.52	-0.67	-9.04	-2.04	0.01	-1.69	-6.33	-13.8	-15.75	-10.24	-11.99
300	-3.03	-2.06	-2.81	-0.97	-6.78	-1.44	-0.14	-3.08	-12.34	-9.57	-14.3	-8.62	-11.99
315	-2.81	-1.94	-3.79	-1.23	-6.98	-2.62	-1.96	-2.19	-7.52	-6.73	-9.48	-7.14	-11.99
330	-2.75	-1.66	-4.41	-3.74	-6.16	-6.18	-2.99	-0.25	-5.2	-5.73	-7.93	-5.87	-11.99
345	-2.78	-1.26	-3.72	-8.87	-2.61	-8.82	-1.07	0.37	-3.62	-4.51	-6.22	-5.03	-11.99

6225MHz Composite Gain of Ant5, Ant6, Ant7 &Ant8													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.01	-0.06	2.28	4.05	4.35	5.20	4.00	3.63	4.90	2.81	0.23	-2.50	-9.65
15	-2.20	0.02	1.83	3.43	4.69	6.10	3.78	5.23	4.86	3.35	0.56	-0.65	-9.65
30	-2.33	-0.23	1.44	3.13	3.71	4.60	2.90	2.70	3.15	3.51	1.22	-0.23	-9.65
45	-2.25	-1.04	0.90	1.21	0.30	0.47	1.65	1.17	0.84	3.56	1.61	-0.10	-9.65
60	-2.25	-2.26	-0.55	0.17	-2.10	-0.27	1.80	1.12	2.55	2.65	1.34	0.53	-9.65
75	-2.36	-2.71	-1.43	-2.27	-3.60	-2.02	1.44	2.32	3.18	2.26	0.44	-0.63	-9.65
90	-2.39	-2.47	-1.34	-1.77	-1.55	3.40	3.07	3.23	2.76	-0.15	-1.05	-1.61	-9.65
105	-2.42	-2.40	-1.15	-0.68	-2.91	3.57	4.52	3.99	0.62	-0.34	-1.58	-1.42	-9.65
120	-2.38	-2.17	-0.88	-0.62	-2.78	1.57	1.79	4.69	2.24	-0.27	-1.34	-1.99	-9.65
135	-2.34	-1.76	-0.59	0.50	-1.92	1.04	1.83	3.78	1.79	0.79	-1.36	-1.66	-9.65
150	-2.36	-1.41	0.09	0.34	2.41	3.27	2.27	3.53	1.33	-0.67	-2.84	-2.24	-9.65
165	-2.43	-1.20	-0.04	0.48	1.90	4.87	5.04	4.57	3.85	0.15	-3.11	-2.42	-9.65
180	-2.41	-1.30	-1.12	0.63	0.91	5.13	6.22	6.11	4.26	1.01	-3.65	-2.70	-9.65
195	-2.49	-1.38	-0.56	0.40	2.05	5.32	5.97	6.50	3.48	0.92	-3.74	-2.80	-9.65
210	-2.37	-1.23	-0.74	-0.10	3.35	5.04	5.84	6.17	4.17	0.76	-2.89	-2.45	-9.65
225	-2.29	-1.85	-0.24	1.15	2.96	4.92	3.90	5.55	3.28	1.44	-2.55	-2.28	-9.65
240	-2.24	-2.79	0.51	2.72	2.94	5.10	3.22	4.19	2.93	2.50	-3.44	-0.74	-9.65
255	-2.19	-2.97	0.14	3.03	3.83	4.09	2.16	2.89	1.28	2.07	-1.19	0.55	-9.65
270	-2.04	-2.27	0.21	2.80	1.52	4.15	3.51	4.33	0.76	1.60	-0.18	1.28	-9.65
285	-2.27	-1.47	1.08	2.96	0.25	3.60	3.04	4.90	2.84	-1.92	-0.43	1.84	-9.65
300	-2.33	-1.00	2.29	4.28	2.32	4.28	4.84	5.60	1.47	2.28	-2.94	1.61	-9.65
315	-2.21	-0.69	2.98	4.19	3.24	4.43	5.53	5.16	1.96	2.03	-2.51	0.34	-9.65
330	-2.15	-0.36	2.84	2.93	3.20	5.15	5.77	5.30	4.08	0.94	-1.15	-1.23	-9.65
345	-2.14	-0.24	2.61	2.90	3.80	4.47	5.25	4.99	4.65	2.13	0.81	-2.50	-9.65

6225MHz Composite Gain of Ant6, Ant7, Ant9 &Ant10													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.92	2.12	4.10	4.96	5.97	5.84	6.07	6.32	5.51	6.10	4.09	3.53	-5.22
15	0.88	1.82	4.05	4.81	4.40	5.63	6.14	6.49	5.36	6.35	5.15	4.44	-5.22
30	0.94	1.09	2.84	4.10	2.79	5.27	4.89	6.46	4.71	6.19	5.92	5.55	-5.22
45	1.00	0.12	1.46	0.95	1.64	4.91	4.70	5.19	4.62	6.00	5.93	4.84	-5.22
60	1.03	-0.78	0.40	1.41	0.78	3.65	3.01	4.62	4.90	4.62	4.63	4.75	-5.22
75	1.00	-1.03	0.49	0.85	-0.08	3.20	4.15	4.05	2.84	4.31	2.97	3.68	-5.22
90	1.06	-0.80	1.49	2.50	-0.50	2.47	1.95	3.90	1.41	1.09	0.85	2.73	-5.22
105	1.01	-0.63	1.19	1.62	-0.40	2.30	2.30	4.21	0.82	-0.07	0.17	2.82	-5.22
120	1.04	-0.49	0.28	0.24	-0.80	1.18	1.90	2.58	-0.52	-1.33	-0.30	2.68	-5.22
135	1.00	-0.42	-0.73	-0.47	-3.45	-1.64	1.89	1.19	-0.45	-1.25	-1.04	2.13	-5.22
150	0.95	-0.42	-1.55	-0.66	-0.48	1.18	0.67	0.43	0.80	-0.95	-4.36	0.63	-5.22

165	0.86	-0.32	-2.18	-1.21	-0.76	1.88	0.70	-1.17	0.56	-2.10	-2.48	-0.37	-5.22
180	0.89	0.02	-2.66	-0.67	-0.85	-0.17	-2.09	-0.34	-2.11	-3.39	-4.03	-0.97	-5.22
195	0.85	0.33	-1.32	0.26	-0.13	-2.83	-5.32	-0.41	-5.44	-2.30	-4.71	-1.57	-5.22
210	0.89	0.84	-0.78	-0.04	-0.05	-3.13	-2.94	-1.25	-1.72	-3.50	-4.32	-2.07	-5.22
225	0.93	0.79	0.15	0.40	-0.62	-2.36	-4.86	-1.26	-5.84	-5.34	-5.58	-2.91	-5.22
240	0.90	0.52	1.01	0.25	-0.74	0.12	-2.38	-0.24	-5.76	-4.84	-5.79	-0.51	-5.22
255	0.78	0.68	0.55	1.58	0.62	1.35	-0.82	-0.19	-3.19	-4.63	-4.04	0.57	-5.22
270	0.75	0.97	1.00	2.43	-0.29	1.88	2.07	2.35	-1.74	-1.43	-3.06	0.10	-5.22
285	0.71	1.13	0.89	2.71	0.73	2.75	4.29	5.66	2.68	-1.78	-3.36	0.82	-5.22
300	0.78	1.11	1.12	3.81	2.03	3.44	5.88	6.13	1.59	2.55	-1.33	2.25	-5.22
315	0.94	1.44	2.44	5.23	3.14	4.85	6.20	6.26	3.35	4.42	0.14	3.04	-5.22
330	0.97	1.89	3.19	5.38	4.56	5.89	6.19	6.45	5.11	3.89	1.94	3.11	-5.22
345	0.91	2.20	3.60	4.69	5.91	5.27	6.44	6.40	4.92	4.96	3.87	2.91	-5.22

Ant5													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.12	-9.03	-10.06	-5.62	-8.81	-6.94	-10.41	-12.77	-8.6	-11.86	-13.85	-11.43	-11.43
15	-16.07	-9.3	-10.37	-10.95	-13.54	-10.28	-14.86	-13.03	-14.76	-8.72	-17.25	-11.06	-11.43
30	-15.36	-10.21	-10.22	-10.67	-14.12	-11.81	-12.31	-15.74	-17.19	-11.27	-13.74	-9.43	-11.43
45	-15.27	-12.23	-9.67	-10	-16.25	-15.38	-21.01	-14.11	-16.96	-13	-9.93	-7.8	-11.43
60	-15.07	-16.47	-10.6	-8.33	-16.42	-13.45	-12.41	-15.02	-24.07	-10.49	-10.14	-8.43	-11.43
75	-14.77	-23.26	-14.24	-10.79	-19.8	-10.59	-13.7	-12.53	-16.75	-14.03	-12.06	-10.63	-11.43
90	-15.1	-24.51	-12.11	-11.92	-16.96	-9.68	-9.98	-11.04	-17.73	-12.65	-9.92	-8.4	-11.43
105	-15.61	-20.22	-8.73	-8.42	-14.67	-6.18	-8.67	-5.93	-12.9	-12.02	-12.24	-8.7	-11.43
120	-15.38	-17.96	-9.17	-10.95	-15.71	-7.18	-6.6	-4.18	-8.07	-7.85	-13.09	-9	-11.43
135	-14.9	-17.37	-10.88	-9.86	-9.04	-4.74	-5.04	-3.82	-6.79	-8.88	-12.13	-7.47	-11.43
150	-14.1	-14.48	-9.78	-8.67	-6.93	-3.32	-0.99	-0.26	-2.63	-6.78	-8.69	-7.01	-11.43
165	-13.97	-11.5	-8	-5.46	-5.33	-0.44	2.35	1.97	-1.23	-4.13	-5.71	-7.34	-11.43
180	-14.15	-9.91	-6.99	-3.43	-2.83	2.18	4.09	4.15	-0.27	-3.4	-6.02	-6.67	-11.43
195	-14.72	-9.81	-7.07	-2.49	1.64	5.3	6.51	5.01	1.28	-2.65	-4.48	-5.09	-11.43
210	-15.14	-9.53	-6.34	-0.96	4.16	6.15	7.85	5.78	3.89	-0.18	-3.82	-4.83	-11.43
225	-15.11	-8.16	-4.28	0.58	4.74	5.75	6.13	6.15	4.65	3.07	-1.5	-5.86	-11.43
240	-14.68	-7.69	-3.16	2.32	3.76	5	4.69	5.47	4.38	3.59	-1	-5.51	-11.43
255	-14.91	-8.62	-2.53	3.86	2.74	2.87	1.91	2.36	0.89	1.87	-2.06	-5.78	-11.43
270	-14.96	-9.79	-3.08	2.93	1.69	1.97	1.28	3.42	-1.17	-2.61	-6.28	-7.48	-11.43
285	-15.09	-10.03	-4.29	-0.88	-1.9	-6.22	-0.47	1.46	-3.91	-4.58	-3.71	-6.57	-11.43
300	-15.12	-10.08	-4.53	-1.49	-4.86	-2.74	-5.67	-3.35	-4.91	-9.5	-9.04	-6.42	-11.43
315	-15.51	-10.36	-5.31	-2.14	-2.3	-2.28	-2.7	-4.18	-16.27	-7.25	-11.43	-7.27	-11.43
330	-15.8	-10.69	-6.44	-3.49	-2.98	-4.66	-4.82	-4.72	-15.76	-10.17	-11.61	-8.29	-11.43
345	-15.93	-9.97	-8.26	-4.6	-5.3	-5.93	-8.36	-7.58	-8.67	-12.65	-12.6	-10	-11.43

Ant6													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.03	-8.16	-5.91	-3.63	-0.17	1.02	0.73	1.21	1.17	1.26	-4.68	-5.02	-15.64
15	-5.02	-9.15	-8.93	-4.03	-1.86	-0.65	-2.17	-1.61	-3.16	-2.08	-6.77	-3.92	-15.64
30	-4.98	-9.33	-8.78	-6.36	-4.73	-4.6	-5.81	-4.64	-4.44	-6.28	-7.97	-4.97	-15.64
45	-4.91	-8.87	-10.3	-7.62	-6.33	-5.65	-7.15	-5.08	-6.62	-6.28	-10.13	-6.89	-15.64
60	-4.47	-9.23	-11.13	-9.37	-11.3	-6.48	-9.11	-7.52	-8.89	-9.37	-8.98	-5.87	-15.64
75	-4.69	-10.06	-11.27	-10.88	-13.64	-12.44	-11.9	-15.74	-12.04	-10.4	-10.71	-8.19	-15.64
90	-4.89	-9.6	-11.25	-10.64	-15.35	-13.25	-11.61	-12.2	-12.18	-10.12	-15.87	-13.53	-15.64
105	-5.04	-9.19	-15.72	-13.58	-15.89	-11.53	-14.96	-17.8	-14.59	-16.68	-19.6	-15.64	-15.64
120	-4.77	-8.9	-14.62	-12.18	-18.73	-14	-12.29	-14.81	-14.25	-9.5	-18.18	-14.26	-15.64
135	-4.81	-8.95	-15.05	-16.18	-13.61	-16.05	-17.48	-14.54	-15.05	-12.49	-15.49	-12.76	-15.64
150	-4.6	-8.82	-17.71	-12.61	-20.06	-11.8	-13.12	-11.46	-14.17	-11.04	-17.47	-14.49	-15.64
165	-4.78	-8.68	-18.61	-15.09	-11.73	-15.1	-11.34	-15.29	-14.37	-10.28	-12.81	-13.57	-15.64
180	-4.88	-9.1	-16.92	-15.4	-14.83	-15.42	-17.08	-12.3	-13.72	-7.71	-10.12	-10.32	-15.64
195	-5	-8.99	-15.16	-7.13	-14.26	-11	-13.21	-13.28	-11.74	-7.31	-14.73	-11.06	-15.64
210	-4.88	-9.07	-7.85	-3.96	-7.2	-4.51	-9.5	-5.33	-10.6	-9.38	-13.73	-9.24	-15.64
225	-4.92	-8.49	-11.41	-0.71	-3.99	-1.76	-5.12	-2.64	-10.32	-12.46	-10.8	-9.05	-15.64
240	-5.13	-7.49	-10.31	-1.86	-2.79	-1.24	-6.78	-4.54	-8.9	-9.15	-16.18	-10.37	-15.64
255	-5.01	-6.84	-7.6	-3.03	-1.87	-0.98	-3.32	-5.34	-6.82	-13.79	-11.76	-5.52	-15.64
270	-5.02	-5.8	-7.41	-4.58	-2.97	0.02	-0.82	1.44	-1.33	-1.48	-5.07	-4.63	-15.64
285	-4.98	-5.15	-5.35	-0.07	0.07	2.9	3.42	3.13	3.39	-5.07	-2.88	-2.97	-15.64
300	-5.09	-5.08	-3.19	1.65	1.91	2.55	4.41	7.04	0.55	3.07	-9.29	-0.1	-15.64
315	-5.02	-5.56	-2.42	0.25	2.61	4.06	5.2	5.89	3.2	4.46	-5.61	0.37	-15.64
330	-4.98	-6.34	-3.11	-1.57	1.95	4.11	3.74	3.87	4.76	2.02	-4.21	-1.52	-15.64
345	-4.91	-7.24	-4.44	-3.25	0.5	1.9	2.16	0.86	3.79	2.06	-1.9	-4.55	-15.64

Ant7													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.86	-8	-1.39	0.34	0.4	2.62	4.43	5.21	2.07	-1.93	-5.13	-4.57	-11.96
15	-9.97	-9.13	-2.74	1.17	1.36	4.24	4.72	6.43	2.43	-0.11	-3.25	-4.29	-11.96
30	-9.67	-9.89	-5.04	0.45	0.27	3.71	4	4.93	2.44	1.19	-1.26	-2.59	-11.96
45	-9.34	-9.59	-9.4	-3.41	-5.22	-0.54	2.29	3.56	3.82	2.75	0.17	-2.99	-11.96
60	-9.33	-8.39	-11.69	-11.04	-11.36	-4.81	0.62	2.98	4.8	3.21	0.76	-2.93	-11.96
75	-9.44	-7.21	-6.74	-6.03	-6.38	-2.31	1.17	1.78	2.32	2.24	1.04	-2.79	-11.96
90	-9.76	-7.19	-7.64	-3.72	-2.82	2.73	2.87	-0.89	-5.84	-0.06	-0.45	-2.62	-11.96
105	-10.04	-8.5	-10.5	-5.43	-5.91	-2.97	-0.53	-0.58	-6.27	-4.66	-3.58	-2.81	-11.96
120	-10.17	-9.81	-11.95	-8.56	-9.81	-2.42	1.46	2.54	-7.64	-16.6	-10.89	-4.23	-11.96
135	-10.34	-9.38	-9.75	-9.62	-8.27	-2.9	-5.09	-2.22	-7.92	-10.75	-15.77	-6.9	-11.96
150	-10.29	-8.43	-9.66	-9.87	-11.85	-11.17	-16.25	-8.24	-6.78	-5.99	-11.2	-10.38	-11.96
165	-10.21	-7.08	-8.71	-6.71	-10.84	-1.3	-4.75	-10.96	-9.88	-5.98	-9.83	-11.85	-11.96

180	-9.95	-6.2	-9.69	-8.78	-9.77	-3.99	-5.51	-12.95	-8.62	-7.11	-10.85	-11.11	-11.96
195	-9.95	-7.05	-11.31	-9.42	-7.71	-5.5	-6.31	-7.99	-8.25	-11.27	-14.84	-9.43	-11.96
210	-10.33	-8.65	-11.97	-11.04	-8.9	-8.75	-8.82	-10.35	-11.21	-11.37	-19.73	-7.36	-11.96
225	-10.45	-9.84	-13.06	-12.58	-15.78	-9.35	-9.45	-9.6	-12.85	-9.94	-16.09	-9.94	-11.96
240	-10.38	-11.45	-11.18	-11.81	-11.41	-9.98	-12.74	-13.43	-10.87	-12.1	-10.63	-9.94	-11.96
255	-10.27	-14.27	-14.23	-9.13	-8.49	-13.36	-13.46	-12.24	-13.57	-8.18	-10.8	-11.96	-11.96
270	-10.05	-15.33	-10.24	-7.27	-11.17	-7.89	-8.33	-7.58	-6.86	-13.17	-9.76	-9.45	-11.96
285	-9.88	-15.83	-7.49	-4.85	-9.54	-10.34	-7.31	-4.17	-7.62	-9.46	-7.91	-8.05	-11.96
300	-9.81	-16.23	-6.55	-4.25	-10.07	-5.71	-3.12	-3.3	-6.96	-5.25	-9.33	-8.49	-11.96
315	-9.43	-12.86	-3.45	-1.72	-10.1	-3.96	-1.03	-2.19	-5.57	-6.34	-6.53	-9.71	-11.96
330	-9.4	-10.22	-1.21	-1.09	-7	-0.86	2.05	0.36	-3.05	-5.24	-6.56	-7.83	-11.96
345	-9.49	-8.32	-1.14	-0.79	-1.54	1.84	3.34	1.83	-0.23	-4.35	-7.76	-5.69	-11.96

Ant8													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.42	-5.38	-4.06	-10.03	-4.79	-0.56	-4.45	-9.01	-1.32	-6.42	-7.76	-11.08	-11.24
15	-5.29	-3.9	-2.71	-7.31	-2.44	0.95	-1.78	-4.72	-3.08	-6.92	-8.09	-7.84	-11.24
30	-5.19	-3.12	-2.02	-6.39	-3.54	-7.29	-0.98	-4.34	-7.55	-5.8	-9.32	-6.18	-11.24
45	-5.27	-2.9	-1.54	-6.23	-1.58	0.46	-1.54	-6.09	-10.67	-4.56	-9.48	-3.91	-11.24
60	-5.41	-3.14	-1.26	-3.41	-1.79	2.85	1.32	-1.29	-3.61	-3.64	-6.92	-2.52	-11.24
75	-5.55	-3.53	-2.79	-5.27	-1.29	-6.4	-2.11	0.39	-0.06	-2.93	-3.88	-2.06	-11.24
90	-5.84	-3.81	-5.9	-7.56	1.74	3.85	2.25	-2.28	-2.4	-2.55	-3.73	-2.67	-11.24
105	-6.12	-3.37	-6.45	-3.94	-2.72	3.34	3.19	1.58	1.05	-1.23	-4.32	-4.46	-11.24
120	-6.38	-2.77	-2.55	-1.9	-3.24	0.07	3.16	4.01	3.97	1.43	-1.9	-6.82	-11.24
135	-6.5	-2.3	-1.7	0.15	0.2	3.24	3.44	3.62	0.98	2.13	-1.13	-6.96	-11.24
150	-6.36	-2.01	-2.37	0.13	0.96	2.79	2.69	1.33	-2.87	-0.95	-0.87	-5.26	-11.24
165	-6.27	-1.94	-3.36	-1.06	-0.92	-0.28	4.3	3.65	-1.97	-3.55	-2.63	-5.3	-11.24
180	-6.37	-2.32	-4.64	-2.79	-4.85	0.21	4.14	5.81	0.45	-3.57	-6.48	-5.68	-11.24
195	-6.45	-2.97	-4.82	-4.2	-5.01	0.29	2.84	4.73	0.83	-4.24	-9.41	-6.17	-11.24
210	-6.51	-4.16	-5.85	-5.82	-3.68	-1.06	-2.01	2.87	-0.26	-6.09	-9.32	-6.48	-11.24
225	-6.62	-5.91	-6.81	-8.45	-5.61	-3.8	-3.52	-0.52	-3.17	-6.7	-8.58	-6.91	-11.24
240	-6.52	-7.84	-8.53	-9.33	-6.9	-6.92	-9.55	-3.22	-4.89	-7.46	-8.12	-8.49	-11.24
255	-6.36	-9.6	-14.93	-22.67	-8.62	-11.57	-14.57	-16.51	-6.16	-6.25	-9.38	-8.78	-11.24
270	-5.9	-10.92	-17.53	-14.52	-11.46	-8.64	-12.55	-16.88	-15.93	-7.29	-7.76	-8.64	-11.24
285	-5.57	-12.15	-12.88	-9.75	-21.19	-10.43	-16.95	-15.52	-20.63	-10.7	-8.01	-6.28	-11.24
300	-5.29	-14.98	-14.59	-5.89	-7.3	-8.07	-11.3	-16.85	-13	-8.52	-15.12	-5.08	-11.24
315	-5.36	-16.43	-9.34	-3.82	-10.85	-9.2	-14.42	-14.54	-12	-18.39	-10.08	-6.55	-11.24
330	-5.54	-11.36	-4.93	-5.43	-5.95	-5.35	-7.87	-12.18	-9.91	-7.03	-9.25	-10.01	-11.24
345	-5.63	-7.62	-4.77	-11.56	-5.9	-4.82	-7.63	-9.72	-2.96	-6	-8.89	-11.24	-11.24
345	-4.91	-7.24	-4.44	-3.25	0.5	1.9	2.16	0.86	3.79	2.06	-1.9	-4.55	-15.64

Ant9													
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Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.42	-1.22	0.3	3.03	0.74	-3.19	-5.72	-3.34	0.04	2.2	1.89	4.1	-3.42
15	-3.16	-1.47	1.29	2.46	-2.35	-3.9	-0.16	-2.07	2	2.27	2.35	4.41	-3.16
30	-3.03	-1.67	0.69	0.32	-3.73	0.64	0.34	0.02	0.59	1.82	2.14	4.62	-3.03
45	-3.06	-2.14	-1.11	-0.1	-0.49	1.01	0.85	0.95	-0.78	0.05	0.16	3.88	-3.06
60	-3.11	-2.88	-1.96	1.39	0.48	1.41	-1.55	-2.42	-3.25	-4.84	-3.9	2.48	-3.11
75	-3.21	-3.73	-1.01	1.89	0.35	2.42	-0.59	-0.68	-3.02	-4.34	-8.43	0.45	-3.21
90	-3.3	-4.72	-0.04	1.97	-1.53	0.93	-2.63	0.11	-8.07	-4.53	-8.12	-0.06	-3.3
105	-3.28	-6.2	-0.34	0.36	-2.11	-0.98	-1.4	-2.75	-6.67	-6.32	-8.57	-0.17	-3.28
120	-3.19	-7.66	-1.74	-1.5	-2.7	-1.46	-2.89	-3.97	-7.92	-7.91	-8.69	-0.79	-3.19
135	-3.33	-7.43	-4.57	-4.65	-6.95	-3.68	-3.28	-10.6	-12.81	-10.23	-7.17	-1.47	-3.33
150	-3.43	-6.41	-8.78	-11.68	-18.93	-7.28	-3.44	-8.39	-7.64	-13.24	-13.88	-3.65	-3.43
165	-3.35	-7.34	-9.31	-11.39	-20.51	-7.22	-5.79	-12.11	-10.2	-9.33	-3.55	-5	-3.35
180	-3.28	-8.5	-9.52	-9.65	-14.38	-9.3	-11.32	-9.57	-16.64	-9.47	-4.36	-4.86	-3.28
195	-3.3	-6.86	-8.45	-8.76	-11.35	-12.07	-11.14	-6.69	-12.01	-8.08	-4.2	-4.52	-3.3
210	-3.27	-6.09	-6.78	-7.2	-16.45	-16.29	-12.8	-13.46	-8.15	-6.53	-4.41	-3.93	-3.27
225	-3.43	-6.98	-5.72	-7.33	-13.3	-19.93	-14.54	-14.02	-12.13	-8.85	-7.26	-4.69	-3.43
240	-3.54	-7.62	-7.04	-8.96	-14.26	-13.6	-11.96	-12.62	-16.84	-6.73	-4.84	-2.85	-3.54
255	-3.59	-7.53	-10.46	-16.26	-16.88	-11.02	-11.13	-10.23	-11.09	-7.63	-7.18	-2.41	-3.59
270	-3.41	-7.71	-12.2	-15.52	-10.47	-13.01	-10.01	-7.04	-15.27	-8.09	-4.89	-2.26	-3.41
285	-3.18	-8.13	-12.18	-10.75	-6.67	-14.93	-12.07	-6.04	-10.7	-1.32	-3.42	-1.84	-3.18
300	-3.11	-6.6	-7	-4.01	-4.39	-13.39	-9.72	-6.28	-9.4	-3.49	-1.68	-0.32	-3.11
315	-3.15	-4.19	-4.42	0.23	-3.18	-10.54	-8.62	-10.03	-5.02	-1.08	-0.89	0.99	-3.15
330	-3.22	-2.45	-3.05	2.02	-0.49	-9.28	-8.92	-5.88	-4.22	1.08	-0.02	2.47	-3.22
345	-3.45	-1.46	-1.57	3.22	0.97	-3.22	-6.11	-3.59	-1.07	1.42	1.07	3.62	-3.45

Ant10													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.72	-3.74	-2.18	-4.9	-2.81	-3.72	-3.75	-5.22	-3.09	-1.92	-4.63	-3.05	-10.47
15	-3.79	-4.59	-1.86	-2.11	-5.31	-4.65	-4.14	-6.48	-2.87	0.38	-1.83	-1.32	-10.47
30	-3.66	-5.5	-3.23	-2.81	-11.29	-14.32	-4.19	-2.47	-0.79	-1.34	1.27	0.06	-10.47
45	-3.54	-6.22	-4.43	-6.05	-11.02	-2.02	-2.43	-1.4	1.05	-2.45	2.61	1.26	-10.47
60	-3.62	-5.8	-4.92	-7.58	-9.72	-3.66	-5.63	-3.11	-3.2	-2.17	1.43	1.33	-10.47
75	-3.65	-4.83	-5.23	-6.41	-6.05	-4.92	-0.53	-2.23	-7.2	-2.61	-0.6	-0.04	-10.47
90	-3.81	-3.88	-5.13	-4.29	-6.12	-9.02	-7.28	-0.42	0.19	-0.4	-1.03	-1.34	-10.47
105	-3.9	-3.75	-4.47	-2.89	-1.66	-2.15	-2.84	-2.58	0.59	-0.43	-1.46	-0.24	-10.47
120	-3.76	-3.65	-4.53	-4.23	-1.71	-2.79	-0.73	-1.74	0.74	-1.24	-2.49	1.17	-10.47
135	-3.49	-3.56	-4.67	-4.15	-1.92	-2.21	-1.34	-1.98	0	-0.4	-3.48	0.37	-10.47
150	-3.51	-3.32	-5.08	-3.19	-1.51	0.57	1.77	-2.91	0.2	-2.2	-2.89	-0.9	-10.47
165	-3.72	-2.98	-5.58	-2.58	-1.56	1.53	2.25	-1.14	-1.37	-5.62	-2.97	-2.52	-10.47
180	-4.13	-2.69	-5.49	-2.29	-3.37	-0.13	0.28	-1.82	-4.63	-12.72	-7.51	-2.79	-10.47

195	-4.26	-2.56	-3.55	-1.01	-3.64	-1.33	-3.48	-5.29	-8.18	-12.61	-15.52	-3.92	-10.47
210	-4.33	-2.42	-1.31	-0.13	-2.96	-0.81	-2.07	-5.28	-4.99	-10.55	-9.96	-6.27	-10.47
225	-4.21	-2.15	-0.45	0.41	-1.01	-2.24	-4.09	-6.27	-9.73	-8.04	-9.1	-9.94	-10.47
240	-3.94	-2.98	-1.31	-0.34	-3.15	-4.33	-10.02	-5.31	-17.73	-9.79	-8.74	-9.51	-10.47
255	-3.81	-4.55	-2.37	-0.36	-3.55	-1.56	-4.81	-2.94	-8.19	-13.86	-7.98	-9.12	-10.47
270	-4.03	-5.48	-2.25	0.31	-1.92	-4.22	-5.13	-8.35	-12.53	-10.82	-20.69	-9.77	-10.47
285	-4.14	-5.17	-1.96	-0.08	-6.81	-3.05	0.73	-1.94	-6.08	-14.25	-15.95	-10.47	-10.47
300	-4.22	-4.33	-2.41	-1.19	-4.6	-0.16	0.76	-1.95	-10.08	-9.41	-13.87	-9.1	-10.47
315	-4.27	-3.72	-3.3	-2.34	-6.74	-2.27	-1.14	-2.14	-6.55	-7.61	-9.41	-6.61	-10.47
330	-4.07	-3.32	-3.91	-3.02	-7.87	-5.12	-1.25	-0.23	-4.68	-5.2	-8.19	-5.07	-10.47
345	-3.73	-3.25	-3.06	-4.45	-4.7	-6.62	-1.28	-0.47	-3.41	-4.68	-6.75	-3.7	-10.47

6425MHz Composite Gain of Ant5, Ant6, Ant7 &Ant8													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.08	-1.51	1.21	2.07	3.42	5.72	5.23	5.00	5.21	2.57	-1.16	-1.41	-6.38
15	-2.05	-1.52	0.51	1.89	3.35	5.97	4.85	5.42	3.23	2.25	-1.53	-0.30	-6.38
30	-1.87	-1.57	0.11	1.24	1.85	2.95	4.17	3.86	1.87	1.65	-0.86	0.57	-6.38
45	-1.79	-1.66	-0.87	-0.47	0.08	2.56	2.50	2.79	1.78	2.52	-0.06	0.85	-6.38
60	-1.66	-2.09	-1.42	-1.52	-2.46	2.44	3.01	3.14	2.98	2.75	0.86	1.40	-6.38
75	-1.77	-2.59	-1.66	-1.84	-1.66	-1.02	1.54	2.52	2.59	1.97	1.24	0.82	-6.38
90	-2.04	-2.66	-2.83	-1.84	1.05	4.79	4.26	0.82	-1.70	1.15	0.34	0.28	-6.38
105	-2.30	-2.51	-3.71	-1.11	-2.03	3.33	3.32	2.83	0.12	-0.68	-1.83	-0.66	-6.38
120	-2.28	-2.30	-2.32	-1.38	-3.80	1.59	4.43	5.40	2.22	0.29	-2.89	-1.84	-6.38
135	-2.32	-1.94	-1.88	-0.80	-0.13	3.24	2.72	3.87	0.65	0.69	-2.76	-2.19	-6.38
150	-2.09	-1.29	-2.24	-0.27	-0.35	2.26	2.38	2.89	0.47	0.57	-1.51	-2.60	-6.38
165	-2.09	-0.55	-2.15	0.24	-0.06	3.39	5.58	4.17	0.74	0.40	-0.88	-2.87	-6.38
180	-2.13	-0.33	-2.48	-0.30	-0.91	3.84	5.76	6.09	2.28	0.80	-2.09	-2.12	-6.38
195	-2.27	-0.76	-2.71	0.61	1.49	5.31	6.45	6.28	3.24	0.24	-3.74	-1.59	-6.38
210	-2.37	-1.54	-1.68	1.29	3.71	5.75	5.93	6.41	3.82	0.36	-3.77	-0.81	-6.38
225	-2.44	-1.96	-2.17	2.29	3.65	5.44	5.07	6.11	3.33	1.74	-1.62	-1.77	-6.38
240	-2.42	-2.45	-1.67	2.64	3.49	4.64	2.73	4.54	3.14	2.05	-1.24	-2.34	-6.38
255	-2.33	-3.41	-2.28	2.57	3.30	2.81	1.32	1.01	1.08	1.29	-1.54	-1.62	-6.38
270	-2.15	-3.79	-2.11	2.32	1.83	3.61	2.57	4.15	1.38	0.97	-1.02	-1.33	-6.38
285	-2.01	-3.90	-0.92	2.90	0.95	1.90	3.53	4.62	2.36	-1.03	0.71	0.26	-6.38
300	-1.94	-4.41	-0.25	4.01	2.15	3.47	3.95	5.48	1.24	2.54	-4.34	1.58	-6.38
315	-1.91	-4.37	1.26	4.28	2.66	4.47	5.18	4.99	1.50	2.63	-2.06	1.11	-6.38
330	-1.98	-3.40	2.32	3.29	3.26	5.19	5.54	4.69	3.28	2.16	-1.45	-0.24	-6.38
345	-2.01	-2.21	1.73	1.78	3.37	5.01	4.98	3.76	5.11	2.31	-0.88	-1.40	-6.38

6425MHz Composite Gain of Ant6, Ant7, Ant9 &Ant10													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180

0	0.86	1.24	4.01	5.31	5.67	5.62	5.85	6.45	6.27	6.12	3.43	4.76	-3.88
15	0.91	0.56	3.68	5.77	4.30	5.53	6.24	6.42	6.01	6.27	4.26	5.50	-3.88
30	1.04	0.08	2.59	4.34	2.06	4.58	5.47	6.25	5.82	5.40	5.35	6.05	-3.88
45	1.13	-0.17	0.53	2.21	1.05	4.55	5.10	6.09	6.15	5.15	5.34	5.76	-3.88
60	1.20	-0.19	-0.43	0.87	-0.33	3.17	2.87	4.31	4.80	3.91	4.26	5.39	-3.88
75	1.09	-0.11	0.71	1.96	0.93	3.21	4.28	3.78	2.60	3.36	2.70	3.98	-3.88
90	0.92	-0.05	0.98	2.95	0.93	3.68	3.00	3.84	0.72	3.09	1.55	2.92	-3.88
105	0.82	-0.62	0.09	1.95	1.13	2.44	2.58	2.06	0.85	0.69	-0.07	3.05	-3.88
120	0.94	-1.14	-0.67	0.32	-0.03	2.03	3.70	3.44	0.42	-1.15	-2.34	3.12	-3.88
135	0.94	-0.99	-1.53	-1.46	-0.70	1.23	0.96	0.23	-0.88	-0.96	-2.86	2.18	-3.88
150	0.97	-0.44	-3.22	-2.45	-3.69	0.15	1.11	-1.16	0.39	-1.03	-3.55	0.21	-3.88
165	0.89	-0.22	-3.40	-1.67	-2.64	2.49	2.47	-2.05	-1.54	-1.55	-0.33	-1.03	-3.88
180	0.81	-0.22	-3.50	-1.77	-3.25	0.54	-0.11	-1.88	-3.67	-2.97	-1.80	-0.54	-3.88
195	0.74	-0.01	-2.56	0.14	-2.31	-0.35	-1.67	-1.82	-3.83	-3.53	-4.82	-0.68	-3.88
210	0.70	-0.11	-0.11	1.35	-1.63	0.11	-1.34	-1.93	-2.36	-3.24	-4.23	-0.47	-3.88
225	0.66	-0.32	-0.18	2.39	-0.44	0.13	-1.39	-1.14	-5.14	-3.65	-4.23	-2.09	-3.88
240	0.66	-0.84	-0.51	1.52	-0.52	0.00	-4.04	-2.03	-6.76	-3.21	-3.17	-1.53	-3.88
255	0.73	-1.61	-1.55	0.70	-0.04	0.93	-1.17	-0.89	-3.52	-4.35	-3.20	-0.49	-3.88
270	0.75	-1.79	-1.16	0.93	0.37	1.00	0.68	1.67	-1.31	-1.19	-2.24	0.08	-3.88
285	0.82	-1.63	0.03	3.06	1.07	2.22	4.22	4.48	2.55	-0.23	-0.20	0.89	-3.88
300	0.80	-0.98	1.47	4.41	2.77	3.68	5.52	6.48	0.69	3.46	-1.35	2.54	-3.88
315	0.85	0.10	2.65	5.20	2.97	4.34	5.92	5.68	3.53	4.74	0.97	3.40	-3.88
330	0.90	0.93	3.26	5.31	3.66	4.63	6.08	6.20	5.18	4.84	1.84	3.90	-3.88
345	0.93	1.41	3.56	5.22	5.10	5.20	6.25	5.91	6.19	5.19	2.93	4.30	-3.88

Ant5													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.09	-12.87	-7.45	-6.47	-9.95	-13.9	-10.91	-13.2	-8.04	-15.68	-11.85	-9.25	-11.55
15	-11.08	-12.2	-8.04	-7.44	-16.6	-18.85	-19.79	-17.82	-9.44	-13.3	-12.67	-11.55	-11.55
30	-10.8	-11.44	-7.43	-8.08	-13.62	-17.17	-15.17	-14.7	-14.34	-13.27	-9.76	-11.38	-11.55
45	-10.7	-11.73	-9.73	-9.45	-13.18	-14.35	-17.24	-17.13	-13.79	-13.23	-7.43	-8.36	-11.55
60	-10.46	-13.2	-17.87	-14.61	-32.64	-20.38	-11.84	-14.28	-19.78	-8.67	-8.72	-10.14	-11.55
75	-10.32	-15.38	-18.85	-13.13	-14.8	-12.33	-14.26	-11.34	-14.36	-15.94	-14.67	-9.31	-11.55
90	-10	-17.05	-12.63	-11.67	-14.66	-17.31	-11.42	-10.95	-13.59	-12.97	-15.89	-8.12	-11.55
105	-10.1	-17.86	-12.39	-10.34	-15.12	-10.53	-12.54	-9.11	-12.44	-11.36	-19.54	-8.79	-11.55
120	-9.88	-21.24	-13.43	-11.99	-10.74	-7.89	-10.93	-8.39	-6.19	-8.17	-16.64	-9.79	-11.55
135	-10.01	-21.87	-12.44	-10.57	-8.94	-6.15	-5.6	-4.75	-4.9	-6.51	-14.58	-8.54	-11.55
150	-9.86	-17.48	-11	-7.81	-6.07	-4.63	-2.14	-0.84	-1.4	-4.23	-14.01	-8.66	-11.55
165	-9.68	-16.95	-11.63	-5.35	-3.92	-0.54	1.79	2.02	0.3	-2.93	-13.09	-7.32	-11.55
180	-9.8	-14.46	-10.21	-4.28	-1.15	1.86	3.56	3.99	1.66	-1.44	-10.34	-6.24	-11.55
195	-9.95	-11.32	-8.56	-2.95	1.19	4.11	5.37	5.74	3.62	-0.15	-8.02	-4.03	-11.55

210	-9.99	-9.14	-5.02	-0.47	3.38	5.87	5.76	7.59	5.77	1.98	-5.85	-2.65	-11.55
225	-10.6	-8.5	-2.73	1.82	4.15	5.59	5.39	5.87	5.37	3.37	-3.43	-2.78	-11.55
240	-10.71	-7.6	-0.54	2.41	3.82	5.13	4.33	5.27	2.81	3.09	-1.57	-1.87	-11.55
255	-10.49	-6.66	-0.36	2	2.81	1.88	1.73	2.69	1.23	0.97	-1.11	-1.08	-11.55
270	-10.84	-6.36	-1.01	2.36	1.44	-2.13	-1.06	1.54	0.58	-3.4	-2.62	-2.26	-11.55
285	-10.89	-6.85	-2.19	1.71	-1.26	-7.46	-1.05	0.61	-1.9	-6.87	-4.99	-2.8	-11.55
300	-10.93	-7.62	-3.44	-1.04	-2.05	-6.14	-3.76	-6.1	-4.57	-11.47	-9.32	-4.03	-11.55
315	-11.4	-8.64	-3.46	-1.2	-3.52	-1.92	-5.82	-4.8	-11.38	-8.24	-10.99	-6.59	-11.55
330	-11.45	-10.08	-4.42	-2.87	-3.09	-3.87	-4.98	-5.06	-13.47	-12.52	-10.25	-7.43	-11.55
345	-11.28	-11.67	-5.88	-4.94	-6.63	-8.55	-8.11	-7.03	-9.36	-14.35	-9.94	-8.64	-11.55

Ant6													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-20.62	-9.22	-6.17	-3.93	-0.92	2.34	1.57	0.49	-0.17	2.23	-4.3	-3.75	-14.13
15	-20.6	-9.38	-6.67	-5.42	-3.97	-0.68	-0.6	-2.4	-0.98	-0.03	-6.6	-3.77	-14.13
30	-20.57	-9.7	-8.76	-7.67	-6.42	-3.78	-2.07	-1.04	-3.68	-4.32	-7.57	-7.11	-14.13
45	-20.94	-10.1	-12.59	-11.31	-8.91	-8.61	-4.88	-4.35	-5.4	-5.53	-11.61	-7.59	-14.13
60	-20.8	-11.24	-12.3	-10.15	-17.84	-10.2	-11.48	-4.89	-8.6	-7.56	-8.4	-4.77	-14.13
75	-21.4	-12.33	-14.18	-11.03	-15.16	-14.05	-11.94	-9.64	-10.79	-9.78	-10.46	-7.89	-14.13
90	-20.51	-15.17	-15.85	-12.59	-20.11	-15.68	-9.17	-10.67	-10.84	-7.07	-13.27	-14.13	-14.13
105	-20.42	-19.31	-19.24	-14.1	-12.64	-14.83	-14.58	-16.08	-14.84	-17.81	-13.5	-13.41	-14.13
120	-19.76	-25.54	-16.04	-13.38	-18.73	-20.57	-12.59	-15.48	-13.39	-7.07	-14.98	-10.77	-14.13
135	-20.78	-24.13	-12.43	-19.19	-13.85	-14.63	-17.91	-15.41	-15.44	-11.9	-11.51	-10.09	-14.13
150	-20.16	-18.98	-11.73	-16.64	-12.32	-14.09	-20.8	-11.28	-17.77	-11.14	-12.36	-9.59	-14.13
165	-21.9	-18.08	-12.01	-13.93	-9.69	-11.59	-12.31	-10.49	-12.83	-7.7	-16.61	-9.84	-14.13
180	-21.62	-16.63	-10.5	-8.25	-12.38	-16.36	-14.61	-9.63	-20.13	-7.86	-11.37	-8.37	-14.13
195	-21.82	-14.32	-8.74	-10.37	-8.52	-9.98	-13.15	-8.28	-9.91	-5.56	-14.53	-8.01	-14.13
210	-20.65	-12.95	-8.69	-5.9	-5.14	-3.35	-7.26	-7.94	-11.94	-8.14	-14.1	-7.95	-14.13
225	-21.42	-14.17	-4.67	-6.8	-5.26	-0.37	-6.58	-2.19	-11.76	-16.48	-14.44	-5.46	-14.13
240	-20.15	-13.02	-3.95	-1.86	-5.52	-0.23	-5.95	-8.29	-17.32	-16.94	-14.31	-7.58	-14.13
255	-21.34	-10.93	-3.48	0.23	-4.15	-2.66	-2.76	-3.78	-5.3	-10.57	-10.4	-4.65	-14.13
270	-21.76	-10.88	-3.69	0.41	-1.27	-0.05	0.04	2.52	-2.22	-1.43	-3.29	-2.39	-14.13
285	-22.06	-11.47	-4.47	0.2	2.79	2.43	3.53	4.7	3.3	-6.35	-2.98	-0.56	-14.13
300	-21.66	-11.86	-3.59	1.18	3.17	4.62	4.82	5.8	-0.47	2.26	-6.92	0.71	-14.13
315	-21.6	-11.68	-3.79	0.38	2.85	5.24	5.75	6.32	3.35	4.2	-5.45	0.01	-14.13
330	-20.78	-10.96	-4.61	-1.03	2.85	4.56	5.82	5.83	5.21	2.79	-4.36	-1.59	-14.13
345	-20.9	-10.01	-5.55	-2.24	1.8	3.76	4.75	4.32	3.69	2.44	-2.71	-3.78	-14.13

Ant7													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.85	-5.13	-1.29	2.58	2.72	4.63	4.93	4.19	2.61	-1.45	-4.82	-5.86	-9.87

15	-5.26	-4.94	-1.63	2.9	2.54	5.6	5.39	6.03	3.41	-0.42	-1.86	-4.75	-9.87
30	-5.31	-5.19	-2.28	1.12	-0.21	3.05	3.71	6.24	4.47	1.42	-0.14	-3.26	-9.87
45	-5.15	-4.57	-4.88	-2.22	-7.06	-2.18	0.98	5.15	4.65	3.43	0.83	-2.81	-9.87
60	-4.86	-3.16	-5.09	-2.57	-5.3	-1.73	-0.95	3.48	4.28	3.88	0.99	-2.47	-9.87
75	-4.71	-2.77	-4.1	0.6	-2.73	-0.06	0.12	1.71	1.72	2.57	-0.5	-3.62	-9.87
90	-5.18	-3.3	-3.58	0.68	0.17	0.94	1.57	0	-10.3	-2.09	-2.24	-4.77	-9.87
105	-5.31	-4.67	-4.89	-1.05	-1.18	0.8	-0.04	-0.06	-8.37	-7.41	-4.62	-4.66	-9.87
120	-5.35	-6.49	-11.19	-4.73	-3.84	-6.47	-3.12	0.98	-5.43	-11.25	-7.88	-4.86	-9.87
135	-5.21	-8.02	-7.81	-8.88	-8.58	-7.75	-7.55	-3.83	-8.16	-8.85	-8.68	-5.87	-9.87
150	-4.93	-8.42	-4.34	-7.48	-18.96	-13.03	-6.8	-6.27	-9.07	-2.04	-5.77	-8.26	-9.87
165	-4.68	-7.97	-5.44	-3.91	-7.03	-3.59	-5.26	-5.07	-8.34	-1.09	-5.18	-9.66	-9.87
180	-4.41	-7.8	-7.4	-4.78	-8.94	-2.29	-3.29	-11.92	-11.15	-2.33	-7.36	-8.64	-9.87
195	-4.22	-7.23	-10.97	-12.74	-11.1	-5.76	-5.3	-11.1	-12.75	-5.32	-12.52	-9.17	-9.87
210	-3.95	-7.09	-12.61	-14.35	-9.12	-13.68	-10.76	-12.52	-14.93	-11.25	-13.66	-7.06	-9.87
225	-3.95	-8.35	-9.86	-9.8	-13.45	-12.49	-9.35	-15.17	-18.74	-6.62	-14.74	-9.14	-9.87
240	-3.99	-9.9	-8.66	-7.2	-11.26	-10.14	-10.94	-15.8	-11.14	-9.28	-11.48	-9.87	-9.87
255	-4.02	-10.15	-8.86	-6.89	-6	-9.77	-15.53	-18.68	-17.84	-7.26	-8.84	-9.71	-9.87
270	-4.14	-9.69	-9.76	-4.87	-10.2	-9.45	-11.1	-12.2	-7.3	-12.96	-7.59	-8.73	-9.87
285	-4.18	-8.34	-8.7	-1.8	-5.4	-8.91	-8.28	-6.44	-9.79	-6.69	-4.69	-8.09	-9.87
300	-3.92	-6.86	-2.92	-1.35	-6.58	-10.58	-3.12	-3.15	-8.51	-3.65	-6.39	-7.19	-9.87
315	-3.9	-5.29	-0.56	-0.13	-4.82	-8.04	-0.81	-4.8	-3.21	-4.65	-5.49	-7.25	-9.87
330	-3.93	-4.17	-0.9	1.4	-3.1	-1.79	-0.39	-3.28	-4.11	-3.88	-4.66	-5.89	-9.87
345	-4.04	-4.18	-0.77	2.35	0.73	2.39	1.44	0.32	-1.6	-2.58	-7.73	-4.73	-9.87

Ant8													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-1.5	-5.08	-4.81	-10.59	-5.3	-3.28	-4.41	-6.86	-2.42	-11.73	-7.49	-12.56	-16.75
15	-1.49	-4.5	-3.28	-7.41	-6.93	-2.72	-5.12	-3.57	-4.59	-8.25	-5.35	-8.37	-16.75
30	-1.57	-3.82	-2.77	-6.55	-11.6	-5.18	-18.2	-8.04	-9.7	-3.88	-4.59	-4.36	-16.75
45	-1.48	-2.51	-3.35	-5.34	-7.33	-3.07	-6.19	-10.29	-10.67	-3.62	-4.16	-1.35	-16.75
60	-1.47	-1.49	-3.56	-3.97	-4.09	-1.53	-5.65	-6	-10.4	-5.23	-2.45	-0.13	-16.75
75	-1.62	-0.49	-4.02	-5.28	-0.77	0.79	-4.73	-2.74	-3.87	-2.62	-0.66	-0.72	-16.75
90	-1.69	0.34	-3.77	-6.2	0.57	2.63	2.44	-4.19	-4.76	-0.4	-2.8	-3.01	-16.75
105	-1.79	0.52	-2.67	-4.1	-1.35	-2.58	-1.41	-0.7	0.34	1.39	-2.55	-5.11	-16.75
120	-2.17	0.19	-1.83	-3.01	-3.99	-0.11	0.25	2.69	4.47	2.48	0.54	-5.58	-16.75
135	-2.25	-0.38	-1.93	-1.18	-0.24	1.39	0.11	2.85	3.59	3.43	1.02	-5.45	-16.75
150	-2.08	-0.84	-2.78	-0.7	2.47	1.32	-0.92	1.14	0.18	0.8	0.12	-4.15	-16.75
165	-1.98	-1.14	-3.04	-0.84	1.14	-0.93	2.99	2.48	-1.43	-2.53	-1.99	-3.75	-16.75
180	-1.88	-1.5	-4.07	-0.76	-2.14	-2.71	4.05	5.93	1.43	-5.09	-4.91	-3.93	-16.75
195	-1.88	-2.36	-5.74	-2.18	-5.44	-1.87	3.4	4.16	1.55	-4.54	-7.25	-3.86	-16.75
210	-2.14	-3.53	-8.2	-7.11	-4.23	-1.54	-0.06	0.55	0.83	-3.96	-8.52	-4.76	-16.75
225	-2.13	-4.83	-10.84	-10.14	-6.08	-2.5	-2.72	-2.82	-0.32	-3.82	-7.4	-4.93	-16.75

240	-2.01	-6.53	-10.95	-10.76	-8.47	-4.35	-6.15	-6.11	-4.86	-5.94	-6.94	-5.18	-16.75
255	-1.89	-9.01	-11.4	-23.4	-8.1	-9.43	-8.58	-13.99	-4.67	-7.34	-9.74	-5.04	-16.75
270	-1.68	-12.44	-14.92	-14.4	-10.77	-7.94	-13.92	-16.77	-13.87	-6.75	-7.88	-5.58	-16.75
285	-1.57	-17.06	-19.8	-8.98	-15.04	-15.6	-11.64	-25.65	-18.67	-8.81	-7.87	-5.38	-16.75
300	-1.54	-20.87	-13.52	-5.15	-7.17	-13.58	-14.17	-15.23	-15.39	-9	-12.37	-6	-16.75
315	-1.38	-13.24	-9.53	-4.34	-14.49	-11.36	-15.56	-18.08	-12.75	-17.03	-13.04	-7.96	-16.75
330	-1.41	-8.55	-6	-7.64	-5.99	-5.74	-16.65	-12.56	-9.53	-9.89	-12.38	-11.95	-16.75
345	-1.53	-6.31	-5.09	-14.54	-5.84	-6.95	-10.48	-8.93	-3.97	-8.84	-10.23	-16.75	-16.75

Ant9													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.18	0.14	1.54	1.76	-4.11	-10.15	-9.58	-5.01	0.59	-1.22	2.72	4.05	-3.93
15	0.03	0.37	2.44	1.85	-4.69	-7.46	-4.55	-3.63	-1.04	-0.03	3.15	4.31	-3.93
30	-0.18	-0.34	2.17	1.27	-5.06	-2.25	-2.32	-3.74	-1.81	1.41	2.89	4.56	-3.93
45	-0.37	-1.33	0.5	1.56	-3.44	0.41	-5.43	-8.37	-6.26	-2.56	0.73	4.02	-3.93
60	-0.48	-1.79	-0.74	1.79	-3.71	0.38	-5.7	-7.25	-12.45	-5.83	-1.97	2.68	-3.93
75	-0.57	-1.89	-2.14	1.88	-3.07	0.47	-2.42	1.31	-4.97	-6.11	-6	0.84	-3.93
90	-0.61	-1.99	-2.07	0.56	-1.78	-0.97	-1.14	-0.66	-5.72	-2.52	-10.27	0.37	-3.93
105	-0.56	-2.5	-1.28	-1.05	-3.54	-2.94	-2.7	-0.68	-5.33	-3.13	-10.49	0.57	-3.93
120	-0.51	-3.53	-1.99	-3.95	-3.77	-3.25	0.26	-0.9	-2.68	-8.27	-8.78	0.11	-3.93
135	-0.42	-4.87	-4.34	-5.94	-8.05	-7.35	0.03	-10.41	-6.96	-6.84	-7.74	-0.15	-3.93
150	-0.43	-5.61	-10.05	-8.89	-11.01	-7.98	-9.19	-6.25	-7.47	-9.22	-15.91	-2.03	-3.93
165	-0.62	-4.02	-8.54	-8.12	-8.05	-8.79	-14.16	-3.27	-6.1	-9.96	-6.45	-3.93	-3.93
180	-0.67	-3.33	-9	-8.71	-11.38	-5.94	-12.02	-8.4	-7.91	-8.75	-7.14	-3.24	-3.93
195	-0.57	-4.39	-8.8	-9.96	-11.3	-8.3	-10.93	-6.4	-13.51	-8.49	-5.01	-3.11	-3.93
210	-0.39	-5.02	-10.07	-14.75	-8.67	-8.5	-12.56	-14.36	-7.19	-7.31	-3.63	-2.29	-3.93
225	-0.12	-4.4	-8.94	-12.56	-9.3	-8.17	-7.26	-11.29	-8.67	-5.82	-5.04	-2.71	-3.93
240	0.07	-4.43	-10.07	-9.91	-12.43	-10.36	-15.37	-11.18	-14.17	-5.64	-3.04	-1.72	-3.93
255	0.15	-5.03	-10.6	-20.16	-15.36	-9.49	-12.13	-8.27	-8.17	-5.88	-5.83	-2.63	-3.93
270	0.14	-5.74	-12.85	-18.15	-10.2	-8.18	-11.16	-10.9	-11.42	-10.53	-6.63	-3.54	-3.93
285	0.02	-5.19	-16.92	-8.56	-8.45	-8.93	-16.57	-15.45	-8.84	-2.4	-3.55	-2.49	-3.93
300	-0.06	-3.67	-10.13	-4.68	-8.28	-9.11	-16.8	-12.74	-10.68	-1.39	-2.12	-0.21	-3.93
315	-0.08	-2.16	-6.23	-2.78	-6.89	-4.67	-12.71	-6.76	-4.27	-0.74	-0.97	0.97	-3.93
330	0.03	-0.98	-2.4	0.06	-4.99	-7.7	-10.2	-6.4	-2.34	1.76	0.78	2.39	-3.93
345	0.19	-0.25	-0.6	1.18	-4.39	-6.5	-16.45	-5.25	2.21	1.25	2	3.66	-3.93

Ant10													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.5	-3.88	0.04	-1.75	-3.74	-6.87	-2.51	-0.13	-3.02	-0.28	-3.05	-2.1	-11.79
15	-0.29	-4.32	-0.85	-0.14	-8.86	-6.68	-2.98	-2.79	-3.35	-0.04	0.01	-0.35	-11.79
30	-0.29	-3.99	-4.21	-0.33	-8.32	-14.2	-5.66	-5.69	-1.17	-1.98	3.05	1.07	-11.79

45	-0.52	-2.76	-5.57	-3.89	-9.25	-3.21	-0.52	-4.42	1.51	-4.56	3.4	1.83	-11.79
60	-0.65	-1.76	-3.07	-5.4	-9.23	-1.92	-5.53	-1.37	-3.65	-3.37	1.04	1.17	-11.79
75	-0.56	-1.39	-3.5	-8.06	-6.69	-8.11	-0.19	-2.68	-5.66	-1.93	-0.28	0.58	-11.79
90	-0.47	-1.73	-4.76	-6.47	-4	-4.17	-5.06	0.65	0.19	0.54	-0.99	0.01	-11.79
105	-0.47	-1.99	-5.73	-5.65	-3.97	-1.96	-2.5	-3.71	0.56	-0.82	-1.75	1.1	-11.79
120	-0.45	-2.45	-4.83	-4.25	-4.66	-2.45	-2.02	-2.85	1.47	-1.1	-1.73	2.8	-11.79
135	-0.56	-2.5	-2.72	-3	-2.06	0.26	0.64	-3.2	0.74	0.11	-2.8	1.45	-11.79
150	-0.73	-2.64	-1.08	-0.99	-1.31	-0.5	3.18	-1.52	1.4	-3.34	-1.86	-0.88	-11.79
165	-0.74	-2.66	-0.99	0.09	-1.41	1.04	3.43	0.06	0.69	-7.03	-1.15	-2.41	-11.79
180	-0.84	-2.24	-2.4	-1.43	-2.99	0.05	0.59	-0.86	-2.22	-9.2	-3.87	-2.06	-11.79
195	-0.96	-1.97	-2.69	-1.62	-3.83	-1.39	-2.22	-3.67	-5.42	-9.52	-8.32	-2	-11.79
210	-0.88	-1.96	-1.07	-0.61	-2.01	-1.08	0.23	-5.67	-2.71	-6.45	-9.16	-2.8	-11.79
225	-0.82	-2.29	-0.11	-0.47	-1.23	-1.18	-2.72	-5.38	-8.85	-7.46	-7.21	-5.34	-11.79
240	-0.91	-2.56	0.05	0.72	-1.91	-2.19	-10.95	-6.03	-13.94	-8.9	-8.53	-7.5	-11.79
255	-1	-2.61	-1.55	0.02	-3.41	-1.42	-5.34	-1.42	-6.67	-10.91	-8.58	-9.3	-11.79
270	-0.88	-3.11	-2.88	1.82	-1.24	-3	-2.62	-6.61	-8.65	-11.14	-13.43	-11.79	-11.79
285	-0.76	-3.85	-3.25	1.25	-4.18	-5.67	0.78	-1.68	-4.47	-14.34	-11.97	-8.8	-11.79
300	-0.7	-4.24	-3.55	-0.3	-6.85	-0.58	1.57	-0.79	-9.76	-12.58	-13.38	-7.88	-11.79
315	-0.77	-3.9	-3.54	-0.66	-10.47	-1.5	-0.29	-2.74	-5.32	-8.8	-9.38	-6.62	-11.79
330	-0.83	-3.54	-2.47	-2.25	-9.57	-6.55	-1.28	-1.37	-5.79	-5.81	-9.14	-6.26	-11.79
345	-0.82	-3.6	-0.93	-3.14	-4.48	-10.45	-2.96	-1.39	-5.22	-4.73	-6.82	-4.27	-11.79

6675MHz Composite Gain of Ant5, Ant6, Ant7 &Ant8													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.99	-1.49	1.41	2.77	3.89	5.80	5.69	4.48	4.82	2.15	-0.62	-1.21	-6.67
15	-1.11	-1.17	1.49	2.87	2.18	5.29	4.74	4.99	4.35	2.12	0.20	-0.57	-6.67
30	-1.11	-0.97	1.16	1.64	-0.33	2.79	2.34	4.91	3.07	2.42	1.28	0.01	-6.67
45	-1.02	-0.39	-0.86	-0.34	-2.78	0.18	1.28	3.11	2.74	3.20	1.61	1.51	-6.67
60	-0.88	0.13	-1.99	-0.57	-3.61	0.27	-0.26	2.79	1.63	3.22	2.35	2.37	-6.67
75	-0.91	0.36	-2.14	0.50	0.01	2.04	0.17	2.10	1.36	2.17	1.42	1.31	-6.67
90	-0.99	0.17	-1.39	0.29	1.48	2.82	3.92	0.80	-3.22	1.62	-0.56	-0.57	-6.67
105	-1.09	-0.53	-1.65	0.05	0.58	1.28	1.09	1.67	-0.72	-0.01	-1.67	-1.32	-6.67
120	-1.20	-1.75	-2.75	-1.14	-1.51	-0.18	1.01	3.61	3.26	1.72	-0.95	-1.36	-6.67
135	-1.27	-2.52	-1.49	-1.73	-0.42	1.07	0.36	2.86	2.41	2.18	-0.24	-1.26	-6.67
150	-1.04	-2.31	-0.57	-0.45	0.75	0.71	0.94	2.94	1.41	2.86	-0.14	-1.38	-6.67
165	-0.97	-2.25	-1.15	1.16	2.11	2.81	4.68	4.73	1.92	2.78	-1.33	-1.26	-6.67
180	-0.85	-2.02	-1.62	1.91	1.04	3.20	5.96	6.33	2.81	2.19	-2.10	-0.56	-6.67
195	-0.82	-1.61	-2.28	0.10	1.35	4.20	6.23	6.48	4.25	2.43	-4.04	0.07	-6.67
210	-0.79	-1.50	-2.20	0.37	3.50	5.32	5.24	6.23	4.80	2.13	-3.81	0.67	-6.67
225	-0.93	-2.34	-0.34	1.31	3.13	5.69	4.61	5.20	4.06	2.72	-2.66	0.73	-6.67
240	-0.84	-2.90	0.93	3.09	2.71	5.33	3.31	3.16	1.46	1.65	-1.19	0.41	-6.67
255	-0.83	-3.01	1.06	2.94	3.22	2.41	1.90	1.31	1.61	1.13	-0.59	1.42	-6.67

270	-0.85	-3.52	0.21	3.87	2.42	1.99	1.47	3.29	1.86	0.86	1.00	1.66	-6.67
285	-0.83	-4.12	-0.70	4.63	3.40	1.10	3.62	4.40	2.63	-1.11	1.06	2.26	-6.67
300	-0.72	-4.32	1.06	4.71	3.91	2.61	4.31	4.39	0.36	2.20	-2.43	2.45	-6.67
315	-0.71	-3.15	2.24	4.88	2.98	4.34	4.93	4.47	2.48	2.72	-2.10	1.23	-6.67
330	-0.70	-2.00	2.25	4.07	4.32	5.25	5.16	4.70	3.49	2.20	-1.22	0.08	-6.67
345	-0.77	-1.52	1.96	3.04	4.34	5.30	5.11	4.82	4.44	2.35	-1.07	-1.20	-6.67

6675MHz Composite Gain of Ant6, Ant7, Ant9 &Ant10													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	2.38	2.13	4.99	6.07	4.96	5.52	6.11	6.50	6.25	5.97	4.23	4.95	-3.03
15	2.31	2.14	4.92	6.35	3.28	5.38	6.22	6.33	5.89	5.89	5.37	5.64	-3.03
30	2.22	1.84	3.62	5.28	1.57	3.62	5.12	6.25	6.05	5.48	6.48	5.91	-3.03
45	2.09	1.90	1.55	3.17	-0.82	3.19	3.99	4.60	5.85	4.48	5.87	5.94	-3.03
60	2.07	2.28	1.65	2.99	-1.57	3.45	0.87	4.48	3.24	4.00	4.67	5.66	-3.03
75	2.08	2.36	1.10	3.49	0.30	2.41	3.53	4.72	2.26	3.42	2.65	4.17	-3.03
90	2.02	1.84	0.79	3.10	2.16	2.90	3.47	4.34	0.56	3.64	0.78	2.98	-3.03
105	2.02	0.97	0.25	1.91	1.60	2.89	2.49	2.69	0.71	0.68	-0.38	3.53	-3.03
120	2.06	-0.23	-0.90	0.18	-0.04	0.05	2.78	3.26	2.50	-0.07	-1.08	4.23	-3.03
135	2.04	-1.01	-0.07	-1.50	-1.11	0.23	2.37	-0.88	0.41	0.35	-1.07	3.48	-3.03
150	2.06	-1.14	0.27	-0.81	-2.52	-1.09	1.35	0.36	0.34	0.40	-1.29	1.63	-3.03
165	1.98	-0.49	0.22	0.99	0.08	1.64	1.83	2.11	0.79	0.24	0.22	0.19	-3.03
180	2.00	0.04	-0.73	0.74	-2.07	1.69	0.79	-0.59	-2.20	-0.53	-1.02	0.94	-3.03
195	2.04	0.12	-1.18	-1.51	-2.11	0.29	-0.81	-0.92	-3.76	-1.01	-3.29	0.98	-3.03
210	2.24	0.11	-0.92	-0.85	0.28	0.61	-0.06	-3.42	-1.93	-2.09	-3.03	1.35	-3.03
225	2.33	-0.23	1.02	-0.16	-0.14	1.79	-0.11	-1.10	-5.17	-2.20	-3.29	0.65	-3.03
240	2.41	-0.50	1.30	2.44	-0.70	1.46	-4.14	-3.59	-7.85	-3.30	-2.28	-0.08	-3.03
255	2.36	-0.46	0.68	2.21	-0.14	1.01	-1.50	-0.01	-2.35	-2.37	-2.23	-0.03	-3.03
270	2.35	-0.78	-0.33	3.45	1.40	1.69	1.21	1.34	-0.71	-1.68	-1.01	0.21	-3.03
285	2.33	-0.72	-0.94	4.52	3.26	2.14	3.89	4.05	2.75	-0.47	0.86	1.75	-3.03
300	2.40	-0.09	1.41	4.99	2.76	4.31	5.54	5.55	-0.26	3.64	-0.32	3.23	-3.03
315	2.37	0.92	2.73	5.30	2.65	5.22	6.12	5.65	4.39	4.83	1.21	3.58	-3.03
330	2.41	1.80	3.52	5.67	3.47	4.58	6.20	5.97	5.40	5.47	2.39	3.93	-3.03
345	2.45	2.17	4.28	5.86	4.91	5.18	5.51	6.19	6.44	5.58	3.10	4.51	-3.03

Ant5													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.26	-10.73	-10.73	-7.76	-7.6	-17.97	-10.25	-9.43	-13.76	-9.01	-10.43	-13.48	-19.14
15	-13.74	-10.62	-11.47	-9.34	-11.01	-20.62	-20.18	-16.01	-13.87	-10.94	-13.54	-16.62	-19.14
30	-13.34	-11.33	-10.15	-9.65	-13.95	-18.49	-17.78	-13.56	-18.76	-14.89	-14.41	-17.81	-19.14
45	-12.98	-12.3	-11.19	-12.01	-16.2	-21.11	-31.68	-17.7	-17.71	-14.45	-10.04	-13.78	-19.14
60	-12.93	-13.88	-16.17	-14.56	-18.52	-18.71	-16.21	-13.87	-17.66	-11.07	-10.7	-18.58	-19.14

75	-12.97	-16.69	-17.74	-18.05	-19.71	-17.87	-17.63	-8.96	-17.04	-14.06	-18.45	-17.14	-19.14
90	-13.13	-20.02	-16.15	-11.19	-17.77	-13.39	-12.21	-12.97	-13.34	-13.74	-17.48	-16.53	-19.14
105	-13.43	-19.64	-17.47	-15.33	-16.57	-12.46	-13	-9.07	-11.79	-12.53	-14.1	-18.15	-19.14
120	-13.55	-17.03	-15.8	-12.77	-11.51	-8.18	-9.39	-10.6	-9.59	-9.87	-12.81	-19.14	-19.14
135	-13.1	-15.06	-13.24	-9.53	-9.85	-6.25	-6.87	-6.28	-7.95	-5.5	-10.31	-15.55	-19.14
150	-12.79	-13.83	-12.17	-7.19	-7.71	-4.25	-3.53	-4.24	-3.59	-4.14	-8.93	-13.56	-19.14
165	-12.64	-13.24	-10.39	-5.18	-3.67	-1.79	-0.51	0.7	-0.72	-2.25	-9.4	-10.82	-19.14
180	-12.42	-12.65	-9.65	-4.64	-2.18	0.24	2.59	3.59	0.47	-1.86	-7.04	-8.63	-19.14
195	-12.94	-11.94	-9.55	-2.93	0.39	3.46	4.14	3.46	3.6	0.86	-5.13	-7.5	-19.14
210	-13.75	-11.33	-8.28	-1.45	2.9	5.11	6.19	7.4	5.68	3.5	-3.56	-5.91	-19.14
225	-13.91	-10.1	-5.31	0.47	4.03	5.63	5.28	5.97	5.75	3.92	-2.59	-5.61	-19.14
240	-13.89	-10.11	-3.67	2.18	3.78	4.81	3.23	4.62	2.65	1.95	-3.19	-5.3	-19.14
255	-13.9	-11.19	-2.46	2.17	1.8	1.39	-0.11	3.73	1.11	-0.53	-5.76	-5.14	-19.14
270	-13.36	-11.61	-2.87	1.04	-0.67	-4.08	-3.88	1.78	0.46	-3.89	-7.9	-6.15	-19.14
285	-13.22	-11.87	-5.03	0.05	-1.7	-4.5	-4.76	0.5	-1.33	-7.11	-8.6	-6.92	-19.14
300	-13.53	-11.48	-6.07	-1.19	-3.09	-10.05	-7.17	-5.05	-3.53	-10.23	-17.2	-9.04	-19.14
315	-13.77	-10.9	-6.4	-2.23	-5.19	-4.09	-6.1	-6.72	-12.91	-8.03	-15.93	-11.27	-19.14
330	-14.08	-10.8	-6.72	-3.5	-4.41	-3.81	-1.65	-4.58	-10.83	-11.6	-10.52	-12.72	-19.14
345	-14.34	-10.89	-8.1	-5.85	-5.35	-8.38	-5.4	-6.03	-10.43	-9.86	-9.94	-12.96	-19.14

Ant6													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.17	-10.5	-5.47	-1.58	-2.05	1.87	1.25	3.09	2.38	1.47	-2.84	-6.91	-23
15	-12.16	-11.02	-6.14	-4.89	-4.05	-0.56	-1.66	-0.58	-0.81	-0.25	-4.99	-7.55	-23
30	-11.77	-11.26	-8.53	-6.38	-6.19	-4.47	-5.28	-3.43	-4.39	-3.48	-6.5	-12.74	-23
45	-12.3	-12.64	-8.63	-9.89	-6.94	-7.01	-6.8	-5.76	-6.11	-5.72	-10.22	-12.21	-23
60	-12.09	-12.65	-14.47	-16.24	-8.55	-10.87	-10.7	-11.05	-11.31	-7.52	-9.2	-11.25	-23
75	-11.68	-12.95	-15.43	-18.52	-19.84	-13.84	-14.32	-9.04	-8.76	-7.57	-11.42	-15.42	-23
90	-11.47	-15.95	-12.6	-11.45	-15.64	-17.18	-16.79	-16.84	-14.07	-9.67	-15.61	-23	-23
105	-11.29	-19.77	-13.11	-11.24	-19.73	-14.38	-17.49	-15.85	-16.67	-16.2	-12.14	-14.36	-23
120	-11.04	-20.99	-20.86	-11.92	-12.32	-17.05	-14.27	-14.59	-13.5	-10.74	-18.21	-8.26	-23
135	-11.08	-17.26	-18.69	-17.44	-22.05	-18.1	-21.39	-15.95	-12.61	-15.19	-13.47	-8.83	-23
150	-11.6	-15.12	-16.63	-21.12	-16.86	-13.36	-21	-10.91	-15.13	-11.32	-12.45	-13.32	-23
165	-11.54	-13.85	-15.26	-15.41	-9.32	-9.11	-11.57	-9.55	-21.01	-5.99	-15.84	-14.67	-23
180	-11.58	-12.24	-12.65	-9.48	-10.53	-9.15	-10.84	-5.81	-9.95	-5.45	-14.19	-11.22	-23
195	-11.53	-10.66	-9.62	-4.63	-7.85	-8.71	-8.61	-4.79	-7.01	-3.08	-15.1	-11.43	-23
210	-11.44	-9.37	-7.09	-3.93	-5.95	-3.75	-4.39	-7.01	-10.74	-5.67	-10.96	-10.55	-23
225	-11.54	-7.85	-8.67	-2.43	-3.97	-1.89	-4.4	-4.07	-14.48	-12.14	-12.29	-9.63	-23
240	-11.98	-7.24	-4.14	-1.99	-2.97	-2.58	-3.4	-7.88	-7.72	-15.29	-10.22	-11.02	-23
255	-12.14	-6.88	-2.92	-0.52	-3.5	-2.9	-2.09	-2.66	-6.93	-11.91	-9.63	-8.1	-23
270	-12.3	-6.24	-1.21	1.65	-0.74	0.8	-1.84	0.69	-2.35	-2.79	-2.24	-4.63	-23
285	-12.44	-6.36	-1.47	2.45	1.74	2.67	2.95	3.35	2.25	-4.53	-2.49	-1.56	-23

300	-12.24	-7.1	-2.58	2.27	1.72	4.72	2.92	5.44	-1.07	0.69	-6.16	-0.84	-23
315	-12.94	-7.94	-3.18	1.18	2.87	5.24	4.24	5.97	2.35	4.31	-5.75	-1.88	-23
330	-12.51	-8.95	-3.86	0.8	2.72	5.54	5.42	6.19	3.36	2.3	-3.39	-3.88	-23
345	-12.3	-10.12	-5.01	-0.24	0.58	2.55	3.38	3.68	3.2	1.62	-1.71	-6.25	-23

Ant7													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.2	-5.95	-2.01	3.42	1.7	6.34	3.22	1.15	-3.9	-4.1	-4.79	-6.01	-10.95
15	-3.46	-6.06	-2.32	2.33	2.35	5.89	2.35	0.19	-4.62	-2.19	-2.01	-3.95	-10.95
30	-3.71	-5.63	-3.84	-0.85	-0.52	2.82	-0.17	-0.94	0.1	0.56	0	-3.22	-10.95
45	-3.87	-5.11	-5.23	-4.46	-4.84	-0.27	-0.66	0.75	2.84	3.55	0.63	-2.14	-10.95
60	-3.82	-4.68	-5.59	-2.68	-0.98	3.51	1.27	1.29	1.71	3.73	-0.39	-1.69	-10.95
75	-3.72	-4.06	-2.51	2.02	-0.24	4.48	3.56	0.73	-0.81	2.27	-2.15	-1.96	-10.95
90	-3.75	-3.68	-2.26	2.11	2.01	1.7	3.1	-1.74	-4.67	-0.62	-5.72	-2.03	-10.95
105	-3.57	-4.21	-3.03	-0.64	0.78	2.71	2.35	-2.32	-6.78	-7.14	-10.28	-3.26	-10.95
120	-3.55	-5.79	-6.8	-3.46	-2.09	-2.59	-3.66	-1.89	-4.04	-10.24	-14.1	-5.32	-10.95
135	-3.79	-7.01	-9.16	-8.83	-9.32	-5.46	-6.51	-3.17	-12.34	-12.87	-12.96	-6	-10.95
150	-3.92	-6.76	-5.58	-7.93	-11.37	-8.59	-5.8	-8.67	-15.2	-2.87	-13.16	-7.5	-10.95
165	-3.8	-7.65	-4.37	-4.88	-9.83	-16.05	-5.73	-6.61	-21.71	-1.41	-12.3	-10.83	-10.95
180	-3.68	-11.41	-6.64	-4.78	-9	-5.74	-7.41	-11.06	-16.9	-3.7	-15.01	-9.93	-10.95
195	-3.24	-13.19	-9.02	-6.4	-10.34	-6.81	-5.68	-11.54	-14.85	-8.72	-16.19	-9.93	-10.95
210	-3.03	-13.8	-10.6	-8.59	-7.73	-15.53	-14.7	-12.24	-16.22	-15.08	-12.91	-8.84	-10.95
225	-2.94	-14.27	-12.77	-10.97	-12.17	-16.76	-13.37	-17.99	-18.04	-9.11	-11.38	-9.13	-10.95
240	-2.91	-12.49	-13.31	-10.31	-10.24	-12.84	-14.99	-13.47	-12.02	-11.84	-9.57	-10.1	-10.95
255	-2.95	-11.32	-11.92	-6.87	-8.48	-15.97	-15.38	-18.61	-25.01	-7.12	-9.7	-10.95	-10.95
270	-3.14	-10.34	-9.69	-5.94	-8.06	-10.23	-13.19	-8.6	-6.91	-13.66	-4.89	-9.35	-10.95
285	-3.14	-8.95	-6	-3.29	-9.08	-13.4	-13.48	-7.19	-8.65	-5.88	-4.78	-7.88	-10.95
300	-3.16	-7.13	-4.29	-4.43	-5.54	-15.19	-5.32	-4.54	-10.05	-3.6	-5.99	-6.3	-10.95
315	-3	-6.01	-4.74	-1.4	-4.7	-9.42	-2.21	-2.18	-4.4	-2.88	-3.49	-4.98	-10.95
330	-2.84	-5.99	-2.65	0.46	-1.62	-0.57	-0.06	-3.27	-2.29	-3.23	-4.17	-3.91	-10.95
345	-2.88	-6.01	-2.39	2.77	0.25	3.73	2.52	0.05	-2.27	-4.89	-6.55	-3.25	-10.95

Ant8													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.51	-5.41	-3.54	-6.51	-8.17	-7.47	-4.48	-4.86	-4.74	-13.75	-7.92	-9.27	-15.52
15	-2.58	-4.3	-2.86	-4.14	-13.1	-6.04	-7.48	-3.92	-6.02	-8.46	-5.42	-6.86	-15.52
30	-2.6	-3.96	-3.11	-4.48	-10.84	-10.39	-10.13	-5.98	-11.59	-5.54	-2.64	-3.59	-15.52
45	-2.41	-4.26	-4.26	-5.58	-10.16	-3.38	-3.44	-7.02	-13.55	-6.95	-1.51	-1.18	-15.52
60	-2.31	-3.36	-9.42	-8.42	-3.21	-4.73	-8.23	-5.01	-10.47	-6.81	-1.5	-0.39	-15.52
75	-2.63	-2.39	-10.74	-8.76	-1.76	1.31	-0.22	-5.57	-4.69	-2.92	-0.61	-0.41	-15.52
90	-3.01	-1.59	-6.29	-3.29	-0.38	0.41	2.75	-3.22	-5.02	1.14	-1.47	-1.58	-15.52

105	-2.99	-1.25	-5.52	-0.29	-0.71	0.56	0.98	-0.13	0.27	2.8	-1.28	-2.18	-15.52
120	-2.99	-1.86	-5.77	-1.44	-2.63	1.71	1.88	0.85	3.06	2.97	0.53	-2.04	-15.52
135	-2.74	-2.49	-4.58	-1.05	-2.46	0	-2.11	2.93	3.25	3.38	0.96	-2.35	-15.52
150	-2.52	-2.98	-3.22	-0.27	0.82	0.22	-12.21	1.65	0.08	1.19	-0.01	-2.89	-15.52
165	-2.69	-3.26	-3.48	-0.38	1.2	1.51	-1.84	0.41	-1.87	-2.15	-1.85	-4.18	-15.52
180	-3	-3.77	-4.86	-1.62	-0.92	1	3.65	4.38	0.07	-4.6	-5.15	-5.75	-15.52
195	-2.98	-4.36	-5.75	-2.13	-6.41	-0.31	4.08	4.73	0.75	-5.62	-7.53	-5.81	-15.52
210	-3.07	-5.22	-7.64	-4.39	-6.7	-1.42	1.82	1.1	-0.49	-4.58	-9.27	-6.43	-15.52
225	-2.99	-6.61	-8.8	-10.45	-7.19	-2.51	-1.94	-2.77	-1.85	-6.21	-9.63	-6.51	-15.52
240	-2.89	-8.33	-10.93	-12.79	-9.54	-3.84	-3.92	-8.61	-6.23	-7.04	-10.51	-6.47	-15.52
255	-2.59	-10.9	-15.87	-10.71	-9.11	-5.06	-7.31	-8.91	-6.2	-11.54	-12.27	-6.33	-15.52
270	-2.5	-14.86	-23.59	-11.43	-10.92	-7.43	-14.37	-16.72	-11.33	-10.88	-12.65	-6.8	-15.52
285	-2.57	-17.39	-17.83	-12.92	-13.82	-11.44	-9.16	-19.29	-23.44	-9.86	-11.08	-6.05	-15.52
300	-2.67	-14.1	-11.11	-6.81	-8.54	-12.85	-16.74	-14.37	-20.17	-11.33	-13.61	-6.8	-15.52
315	-2.64	-10.57	-7.49	-5.93	-14.02	-14.47	-19.29	-12.36	-13.77	-27.28	-12.62	-9.78	-15.52
330	-2.67	-8.2	-5.86	-10.57	-9.29	-8.4	-13.59	-7.24	-10.88	-10.97	-10.97	-14.88	-15.52
345	-2.52	-6.59	-5.31	-11	-7.78	-10.65	-8.73	-9.01	-5.85	-9.11	-10.73	-15.52	-15.52

Ant9													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.66	-2.32	-2.27	-4.31	-8.96	-9.49	-8.73	-3.81	3.03	3.12	3.61	3.77	-5.67
15	-4.49	-2.68	-0.02	-1.58	-12.22	-9.06	-12.44	-1.18	1.5	2.75	4.11	3.93	-5.67
30	-4.45	-2.96	-0.24	1.26	-9.97	-6.98	-9.15	-7.89	-3.43	-0.46	2.99	4.19	-5.67
45	-4.47	-3.52	-1.05	0.37	-7.09	-2.82	-1.57	-5.24	-4.99	-2.19	0.88	3.71	-5.67
60	-4.63	-4.55	-3.29	0.17	-7.41	-1.92	1.27	1.59	-4.76	-2.87	-1.12	2.63	-5.67
75	-5.03	-5.18	-4.97	-1.14	-11.9	0.11	1.65	3.02	-2.42	-0.88	-2.56	0.52	-5.67
90	-5.38	-5.15	-6.25	-3.36	-3.84	-1.41	-0.24	2.78	-3.91	-1.35	-3.43	-0.31	-5.67
105	-5.19	-4.64	-6.09	-3.13	-3.75	-3.1	-1.43	0.23	-3.63	-2.64	-3.21	-0.07	-5.67
120	-5.06	-4.22	-5.61	-6.35	-6.07	-6.6	-1.11	-0.7	-3.17	-6.62	-5.2	-1.12	-5.67
135	-5.1	-3.7	-7.36	-8.96	-8.31	-16.94	-3.65	-5.22	-6.24	-6.9	-6.23	-1.36	-5.67
150	-5.21	-3.51	-7.82	-17.23	-8.88	-11.57	-9.87	-8.69	-10.66	-6.12	-9.88	-3.44	-5.67
165	-5.32	-4.51	-6.47	-12.3	-10.67	-12.71	-12.23	-7.83	-7.25	-10.02	-13.37	-5.67	-5.67
180	-5.44	-6.26	-5.47	-13.04	-14.75	-12.5	-12.52	-5.6	-8.85	-9.17	-10.26	-4.92	-5.67
195	-5.29	-6.62	-10.13	-25.19	-17.81	-11.72	-14.08	-6.85	-13.94	-5.94	-4.1	-5.35	-5.67
210	-5.2	-7.48	-10.82	-11.83	-10.35	-13.69	-10.79	-15.25	-6.52	-4.19	-1.99	-5.18	-5.67
225	-5.2	-7.99	-9.75	-6.28	-10.91	-12.62	-10.67	-5.98	-15.98	-4.26	-3.69	-3.61	-5.67
240	-5.03	-7.22	-10.41	-8.71	-13.44	-14.22	-17.44	-9.73	-13.1	-9.4	-3.14	-1.65	-5.67
255	-4.74	-6.52	-10.46	-15.34	-16.21	-7.82	-15.58	-9.64	-7.43	-5.22	-6.57	-2.42	-5.67
270	-4.71	-6.12	-11.95	-13.92	-11.87	-7.89	-13.61	-9.84	-9.82	-16.69	-5.47	-2.39	-5.67
285	-4.57	-6.04	-11.43	-13.71	-14.89	-6.65	-10.04	-13.06	-9.58	-0.97	-3.09	-1.78	-5.67
300	-4.57	-5.86	-7.93	-9.32	-16.19	-5.6	-8.6	-7.75	-8.42	-1.62	-1.19	-1.03	-5.67
315	-4.56	-5.16	-7.76	-6.53	-13.92	-3.87	-8.37	-4.35	-3.51	-0.46	-0.04	0.01	-5.67

330	-4.48	-4.07	-6.56	-2.69	-11.91	-2.45	-7.03	-3.22	-1.54	2.22	2.02	1.75	-5.67
345	-4.49	-2.68	-4.56	-4.75	-10.83	-2.68	-3.91	-4.35	1.75	3.33	2.25	3.55	-5.67

Ant10													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-1.32	-5.77	-1.73	-2.17	-7.75	-5.6	-4.63	-1.12	-4.36	-2.37	-5.68	-1.06	-14.62
15	-1.31	-5.87	-1.94	-0.93	-13.69	-10.55	-4.84	-1.08	-5.64	-1	-2.76	0.3	-14.62
30	-1.38	-5.75	-4.52	-1.5	-9.17	-13.9	-10.27	-3.74	-2.27	-2.56	1.4	1.17	-14.62
45	-1.32	-4.05	-6.01	-6.1	-13.99	-6.14	-2.52	-1.61	0.28	-4.73	2.37	1.68	-14.62
60	-1.35	-2.91	-4.89	-6.71	-15.74	-4.14	-6.19	-6.28	-3.99	-3.51	0.15	0.76	-14.62
75	-1.41	-3.04	-6.47	-11.99	-8.02	-7.43	-6.01	-4.34	-5.47	-3.26	-0.97	0.67	-14.62
90	-1.35	-3.61	-7.11	-7.92	-6.28	-2.51	-8.04	-1.86	-1.36	-0.25	-0.29	0.73	-14.62
105	-1.33	-4.08	-6.35	-7.87	-9.6	-1.74	-8.76	-4.52	-1.47	-1.75	-2.11	1.58	-14.62
120	-1.43	-4.16	-4.98	-4.36	-6.36	0.36	-6.32	-3.24	-0.88	-0.93	-2.23	3.12	-14.62
135	-1.31	-4.29	-4.21	-1.82	-1.82	1.99	0.09	-2.52	-0.24	-0.5	-3.16	2.14	-14.62
150	-1.31	-4.06	-3.26	-1.74	-1.95	0.01	2.1	-3.02	-0.64	-5.26	-3.69	-0.66	-14.62
165	-1.45	-3.91	-2.72	-1.92	-2.38	-1.3	1.82	-1.9	-1.62	-11.7	-2.41	-3.13	-14.62
180	-1.54	-3.79	-3.09	-2.57	-3.4	-0.15	0.32	-0.47	-3.58	-10.34	-4.58	-2.77	-14.62
195	-1.66	-3.38	-5.06	-5.44	-5.28	-0.3	-2.47	-2.63	-5.39	-8.5	-8.61	-1.75	-14.62
210	-1.73	-2.79	-4.58	-3.78	-3.08	-0.37	0.27	-6.9	-2.94	-5.77	-7.89	-3.08	-14.62
225	-1.77	-2.37	-2.8	-1.51	-0.9	0.63	-2.35	-4.11	-8.59	-6.77	-7.86	-5.16	-14.62
240	-1.68	-2.21	-3.05	0.25	-1.66	-1.18	-8.21	-6.2	-9.47	-8.27	-9.74	-8.35	-14.62
255	-1.42	-2.63	-4.2	0.89	-4.96	-3.45	-6.53	-4.38	-6.1	-8.19	-6.96	-8.06	-14.62
270	-1.51	-3.52	-6.66	-0.59	-2.86	-5.67	-1.77	-6.02	-6.81	-12.34	-14.88	-14.62	-14.62
285	-1.64	-4.38	-8.12	-1.79	-5.47	-9.26	0.38	-2.76	-4.66	-14.26	-13.4	-10.35	-14.62
300	-1.67	-5.05	-6.64	-1.88	-8.19	-2.23	0.52	-1.9	-10.96	-12	-11.01	-10.33	-14.62
315	-1.78	-5.03	-5.2	-1.93	-10.26	-3.57	-0.94	-4.22	-6.64	-9.55	-8.02	-9.67	-14.62
330	-1.73	-5.14	-3.69	-2.44	-14.54	-10.17	-1.07	-4.09	-3.83	-5.21	-8.8	-7.13	-14.62
345	-1.39	-5.62	-2.67	-3.08	-7.61	-8.01	-5.21	-0.11	-4.88	-3.75	-8.42	-3.15	-14.62

6925MHz Composite Gain of Ant5, Ant6, Ant7 &Ant8													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.53	-1.78	1.15	4.08	2.96	5.72	4.88	4.81	2.73	1.47	0.00	-2.45	-10.00
15	-0.60	-1.50	1.00	3.04	1.73	4.86	2.47	2.77	0.83	1.62	0.43	-1.64	-10.00
30	-0.60	-1.40	0.12	1.26	-0.35	1.59	-0.15	1.15	-0.03	1.75	1.59	-1.36	-10.00
45	-0.61	-1.70	-0.89	-1.43	-2.57	0.75	0.35	0.75	0.91	2.48	2.07	0.44	-10.00
60	-0.51	-1.42	-4.38	-2.76	0.33	1.87	-0.04	0.85	-0.35	2.58	1.71	0.71	-10.00
75	-0.56	-1.12	-3.49	-0.58	-0.02	4.00	2.94	1.30	0.00	2.38	0.43	0.26	-10.00
90	-0.71	-1.18	-1.69	1.95	1.98	2.34	4.06	-0.55	-2.17	2.30	-1.61	-0.70	-10.00
105	-0.64	-1.47	-1.99	1.37	1.09	3.11	2.88	1.08	-0.47	0.87	-1.86	-1.01	-10.00
120	-0.61	-2.21	-4.26	0.01	0.14	1.90	1.69	1.54	2.26	1.31	-1.87	-0.77	-10.00

135	-0.55	-2.44	-3.93	-1.33	-2.52	0.61	-0.94	2.73	1.33	1.61	-0.64	-0.95	-10.00
150	-0.55	-2.23	-1.88	-0.47	-0.34	0.93	-2.42	1.86	0.09	2.79	-0.84	-2.13	-10.00
165	-0.55	-2.37	-1.16	1.01	1.83	1.98	2.05	3.32	-0.46	3.24	-2.21	-3.24	-10.00
180	-0.60	-3.13	-1.94	1.32	1.33	3.57	5.06	5.93	2.02	2.22	-3.29	-2.62	-10.00
195	-0.50	-3.28	-2.31	2.15	0.96	4.29	6.24	6.14	4.17	2.59	-3.71	-2.38	-10.00
210	-0.53	-3.33	-2.28	1.79	2.84	4.78	6.15	6.38	4.38	2.87	-2.40	-1.72	-10.00
225	-0.50	-3.23	-2.47	1.56	3.25	5.13	4.74	4.78	3.70	2.47	-2.02	-1.53	-10.00
240	-0.51	-3.30	-1.03	2.33	3.22	4.49	3.35	2.57	1.96	0.52	-1.77	-1.87	-10.00
255	-0.43	-3.84	-0.53	3.44	2.36	2.30	1.49	2.76	0.56	-0.45	-3.00	-1.35	-10.00
270	-0.43	-4.19	-0.08	3.83	2.02	1.78	-0.63	3.01	2.08	-0.64	-0.10	-0.55	-10.00
285	-0.46	-4.24	0.15	4.20	2.28	1.72	2.09	3.74	2.25	-0.61	-0.09	0.78	-10.00
300	-0.51	-3.44	0.54	4.16	2.99	1.72	2.03	4.12	-0.16	1.30	-3.48	0.84	-10.00
315	-0.56	-2.60	0.72	4.28	2.68	3.46	3.55	4.78	1.38	2.92	-2.06	-0.15	-10.00
330	-0.49	-2.29	1.40	3.85	3.93	5.70	5.79	5.46	2.97	2.07	-0.55	-1.47	-10.00
345	-0.44	-2.12	1.05	3.92	3.66	4.99	5.38	4.58	3.60	1.75	-0.44	-2.12	-10.00

6925MHz Composite Gain of Ant6, Ant7, Ant9 &Ant10													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	1.52	0.35	3.27	5.35	2.84	6.39	5.00	6.22	5.97	6.02	4.43	4.56	-5.51
15	1.49	0.10	3.68	5.13	1.55	5.00	3.37	5.38	4.11	6.05	5.32	5.25	-5.51
30	1.45	0.10	2.23	4.57	0.41	2.38	0.75	2.36	3.69	4.68	6.15	5.31	-5.51
45	1.36	0.35	1.23	1.79	-1.60	2.38	3.42	3.47	4.80	4.56	5.58	5.51	-5.51
60	1.35	0.52	-0.14	1.48	-0.65	4.10	3.80	3.88	2.60	4.46	4.08	4.96	-5.51
75	1.30	0.45	-0.19	1.97	-1.28	4.39	4.63	4.77	2.16	4.37	2.57	3.83	-5.51
90	1.25	0.12	-0.29	2.36	2.12	3.39	3.35	3.94	1.12	3.77	1.31	3.27	-5.51
105	1.38	-0.31	-0.43	1.23	0.74	3.74	2.47	2.10	0.46	0.63	0.12	3.72	-5.51
120	1.41	-0.74	-1.75	0.05	0.03	1.56	0.88	2.29	1.72	-0.16	-1.71	4.19	-5.51
135	1.37	-0.69	-2.45	-1.60	-1.85	0.25	0.93	0.63	-0.28	-0.93	-1.83	3.51	-5.51
150	1.25	-0.31	-1.08	-2.82	-2.09	-0.67	0.81	-1.27	-2.10	0.13	-2.90	0.97	-5.51
165	1.21	-0.68	-0.07	-0.99	-1.32	-1.94	1.06	0.04	-2.88	-0.32	-3.25	-1.46	-5.51
180	1.18	-1.69	-0.30	-0.54	-2.43	0.36	-0.06	1.08	-2.59	-0.73	-3.94	-0.50	-5.51
195	1.30	-1.64	-2.19	-1.64	-3.21	0.21	-0.72	0.15	-3.31	-0.23	-3.57	-0.24	-5.51
210	1.37	-1.45	-1.86	-0.39	-0.35	-0.08	0.46	-3.64	-1.78	-0.78	-1.37	-0.40	-5.51
225	1.37	-1.12	-1.68	1.45	0.28	1.06	-0.57	-0.55	-7.48	-1.57	-2.10	-0.48	-5.51
240	1.41	-0.52	-0.71	1.93	0.24	0.17	-3.24	-2.90	-4.30	-4.79	-1.60	-0.90	-5.51
255	1.54	-0.29	-0.52	2.52	-1.09	-0.20	-1.97	-0.98	-2.93	-1.77	-2.07	-0.78	-5.51
270	1.44	-0.21	-0.38	3.07	1.17	1.32	0.22	1.12	-0.03	-3.60	0.24	-0.57	-5.51
285	1.42	-0.26	0.03	3.61	1.16	1.52	3.45	3.10	2.22	0.79	0.99	1.43	-5.51
300	1.42	-0.22	0.91	3.66	1.18	4.07	4.54	5.29	-0.63	3.00	0.62	2.23	-5.51
315	1.36	0.06	0.95	4.27	1.88	4.79	5.30	5.99	3.66	5.21	2.20	2.60	-5.51
330	1.49	0.16	1.95	5.20	2.41	5.79	6.42	6.11	5.39	5.65	3.29	3.35	-5.51
345	1.62	0.30	2.44	5.17	2.93	6.04	6.02	6.29	6.04	5.78	3.42	4.55	-5.51

7.2 2G DG_NSS2 Test Data

Ant1													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.52	-17.92	-6.42	-0.76	1.61	3.44	2.68	0.95	-2.45	-5.8	-5.01	-7.44	-11.02
15	-12.4	-16.67	-5.16	-0.26	1.49	3.69	3.49	2.65	-0.82	-4.03	-4.9	-6.97	-11.02
30	-12.47	-15.74	-4.79	-0.39	0.71	3.7	3.63	2.85	0	-2.3	-5.42	-7.22	-11.02
45	-12.54	-15.39	-5.44	-0.95	0.72	3.26	3.18	2.81	0.69	-1.08	-5.31	-7.63	-11.02
60	-12.61	-16.86	-6.83	-2.02	0.29	3.2	2.92	2.98	0.73	-1.16	-5.49	-6.92	-11.02
75	-12.39	-20.13	-8.5	-2.99	0.28	2.67	2.71	2.07	-0.84	-1.97	-7.04	-6.66	-11.02
90	-12.11	-21.09	-9.46	-2.89	0.3	2.3	1.69	0.27	-2.94	-4.75	-8.78	-7.39	-11.02
105	-12.01	-16.71	-8.53	-1.85	0.19	1.78	0.07	-1.77	-3.98	-4.73	-9.31	-6.33	-11.02
120	-12.12	-13.03	-6.39	-0.8	0.24	0.76	-0.96	-2.42	-2.28	-2.42	-5.77	-6.4	-11.02
135	-12.45	-10.49	-4.6	-0.04	0.13	0.52	-1.07	-0.74	-0.9	-1.51	-5.37	-6.83	-11.02
150	-12.75	-9.09	-3.6	-0.12	-0.54	1.31	0.57	0.4	-0.44	-2.16	-6.3	-4.23	-11.02
165	-12.93	-8.62	-3.63	-1.09	-1.01	1.77	1.58	0.57	-2.02	-4.97	-6.53	-5.83	-11.02
180	-13.11	-8.54	-3.78	-1.65	-2.27	1.4	1.14	-0.47	-6.55	-8.99	-8.73	-9.75	-11.02
195	-13.64	-8.57	-3.81	-2.13	-3.49	-1.35	-1.24	-2.13	-6.64	-5.58	-9.23	-11.02	-11.02
210	-13.7	-8.51	-4.58	-2.67	-4.14	-4.54	-6.09	-2.36	-3.03	-3.66	-7.1	-8.51	-11.02
225	-13.78	-8.51	-5.94	-2.95	-3.16	-7.62	-7.73	-1.67	-2.28	-2.11	-6.42	-7.33	-11.02
240	-13.57	-8.7	-7.04	-3.2	-3.23	-5.97	-11.08	-2.81	-2.39	-3.62	-7.88	-7.54	-11.02
255	-13.49	-9.25	-7.19	-3.72	-3.04	-4.3	-9.08	-5.16	-4.12	-5.07	-8.42	-7.38	-11.02
270	-13.64	-9.98	-7.03	-4.09	-2.9	-3.17	-3.89	-5.33	-5.82	-3.87	-6.68	-5.99	-11.02
285	-14.21	-10.87	-7.36	-4.34	-3.79	-2.25	-2.04	-4.99	-4.86	-4.47	-6.54	-5.04	-11.02
300	-14.21	-12.38	-7.87	-5.14	-5.05	-4.01	-3.07	-4.36	-6.35	-7.18	-9.01	-5.37	-11.02
315	-13.9	-14.44	-8.37	-5.74	-4.53	-6.73	-5.91	-7.17	-10.37	-8.93	-10.6	-6.49	-11.02
330	-13.4	-16.94	-8.87	-3.69	-1.71	-1.56	-5.74	-6.3	-11.24	-9.64	-8.4	-7.79	-11.02
345	-12.89	-18.13	-8.24	-1.87	0.78	2.11	-0.43	-1.7	-6.49	-7.07	-5.97	-8.23	-11.02

Ant2													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.3	-5.99	-5.74	-4.15	-2.6	-1.53	-1.4	-4.93	-5.16	-3.34	-8.69	-5.1	-19.34
15	-6.44	-5.21	-6.38	-4.63	-3.38	-1.62	-1.42	-2.02	-2.57	-3.19	-9.53	-5.8	-19.34
30	-6.6	-4.73	-6.91	-5.13	-4.54	-2.99	-1.32	-0.64	-1.63	-2.86	-9.39	-6.16	-19.34
45	-6.81	-4.64	-5.97	-5.38	-5.01	-5.15	-1.07	-1.18	-2.82	-2.96	-7.21	-5.78	-19.34
60	-6.88	-4.79	-4.14	-3.96	-3.51	-4.81	-1.99	-1.47	-3.54	-3.98	-5	-5.53	-19.34
75	-6.9	-5.11	-3.07	-2.04	-1.48	-1.35	-1.42	-0.92	-2.17	-4.89	-4.75	-5.96	-19.34
90	-7.02	-5.52	-2.86	-1.18	-0.88	0.54	-0.7	0.25	-1.38	-3.47	-6.44	-6.94	-19.34
105	-7.24	-6.12	-3.23	-1.59	-1.8	-0.04	-2.07	-0.72	-0.66	-3.83	-7.71	-8.4	-19.34

120	-7.25	-6.82	-4.18	-2.51	-2.6	-2.03	-5.33	-4.07	-1.81	-4.6	-7.57	-11.23	-19.34
135	-7.15	-7.79	-5.38	-2.54	-1	-1.39	-5.67	-7.23	-5.89	-4.99	-7.69	-10.75	-19.34
150	-6.92	-8.72	-6.02	-1.22	0.81	0.85	-2.89	-3.33	-13.52	-5.29	-7.87	-8.95	-19.34
165	-6.74	-9.51	-5.84	0.07	1.98	2.13	-0.69	-1.31	-9.33	-7.62	-8.47	-10.7	-19.34
180	-6.78	-10.22	-5.21	0.45	2.42	3.36	0.56	-0.45	-5.52	-9.33	-10.54	-14.73	-19.34
195	-6.95	-10.98	-5.36	0.13	2.49	3.96	1.45	-0.44	-4.33	-9.33	-11.16	-19.34	-19.34
210	-6.92	-12.02	-6.53	-0.46	1.84	3.59	1.83	1.07	-4.21	-10.39	-12.83	-18.19	-19.34
225	-6.69	-13.61	-7.75	-1.21	0.55	2.86	3.17	1.52	-4.31	-12.31	-12.41	-15.26	-19.34
240	-6.5	-15.15	-7.76	-1.85	0.14	3.19	2.99	2.51	-3.81	-13.29	-10.99	-13.01	-19.34
255	-6.14	-14.85	-7.24	-1.94	1.02	2.67	4.05	2.21	-5.32	-8.77	-10.82	-11.36	-19.34
270	-6.1	-13	-6.64	-0.94	1.53	3.87	3.54	1.68	-3.89	-5.89	-12.14	-10.62	-19.34
285	-6.21	-11.26	-5.62	-0.1	2.07	3.82	3.32	1.42	-2.81	-3.84	-12.46	-10.19	-19.34
300	-6.32	-9.92	-4.59	-0.18	1.44	2.61	2.07	-0.86	-1.28	-2.71	-10.19	-8.85	-19.34
315	-6.38	-8.85	-4.2	-1.31	-0.75	-0.23	-1.21	-1.92	-3.14	-4.28	-8.84	-7.25	-19.34
330	-6.46	-7.9	-4.68	-3.08	-3.88	-2.99	-2.7	-3.5	-7.15	-6.64	-8.13	-5.85	-19.34
345	-6.28	-6.89	-5.34	-4.29	-4.07	-1.99	-1.83	-5.69	-8.74	-5.57	-8.23	-5.07	-19.34

2450MHz Composite Gain													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-8.38	-8.73	-6.07	-2.13	0.00	1.63	1.10	-1.06	-3.60	-4.40	-6.47	-6.11	-13.43
15	-8.47	-7.92	-5.73	-1.92	-0.30	1.80	1.69	0.91	-1.61	-3.59	-6.63	-6.35	-13.43
30	-8.61	-7.41	-5.72	-2.14	-1.17	1.53	1.83	1.45	-0.74	-2.57	-6.97	-6.66	-13.43
45	-8.79	-7.30	-5.70	-2.62	-1.26	0.83	1.56	1.26	-0.72	-1.92	-6.16	-6.61	-13.43
60	-8.86	-7.54	-5.28	-2.88	-1.21	0.83	1.12	1.30	-0.90	-2.35	-5.24	-6.17	-13.43
75	-8.83	-7.99	-4.99	-2.49	-0.51	1.11	1.12	0.83	-1.45	-3.19	-5.75	-6.30	-13.43
90	-8.86	-8.41	-5.01	-1.95	-0.25	1.51	0.66	0.26	-2.09	-4.06	-7.45	-7.16	-13.43
105	-9.00	-8.77	-5.12	-1.72	-0.69	0.96	-0.87	-1.21	-2.01	-4.26	-8.44	-7.24	-13.43
120	-9.04	-8.90	-5.15	-1.57	-0.95	-0.41	-2.62	-3.17	-2.04	-3.37	-6.58	-8.18	-13.43
135	-9.04	-8.93	-4.97	-1.11	-0.40	-0.33	-2.79	-2.87	-2.71	-2.91	-6.38	-8.36	-13.43
150	-8.92	-8.90	-4.64	-0.64	0.19	1.09	-0.82	-1.08	-3.24	-3.45	-7.01	-5.98	-13.43
165	-8.81	-9.04	-4.60	-0.47	0.74	1.95	0.59	-0.27	-4.29	-6.10	-7.39	-7.62	-13.43
180	-8.88	-9.30	-4.44	-0.47	0.68	2.49	0.86	-0.46	-6.00	-9.16	-9.54	-11.56	-13.43
195	-9.12	-9.61	-4.52	-0.85	0.46	2.07	0.31	-1.20	-5.33	-7.06	-10.09	-13.43	-13.43
210	-9.10	-9.92	-5.45	-1.43	-0.19	1.20	-0.53	-0.31	-3.58	-5.83	-9.08	-11.08	-13.43
225	-8.93	-10.35	-6.75	-1.99	-0.92	0.22	0.50	0.21	-3.18	-4.72	-8.46	-9.69	-13.43
240	-8.73	-10.82	-7.39	-2.47	-1.23	0.68	0.15	0.62	-3.04	-6.19	-9.16	-9.47	-13.43
255	-8.42	-11.20	-7.21	-2.74	-0.55	0.45	1.25	-0.07	-4.68	-6.54	-9.46	-8.93	-13.43
270	-8.41	-11.23	-6.83	-2.24	-0.14	1.64	1.25	-0.54	-4.75	-4.76	-8.60	-7.72	-13.43
285	-8.58	-11.06	-6.40	-1.72	0.06	1.77	1.42	-0.70	-3.72	-4.14	-8.56	-6.89	-13.43
300	-8.68	-10.98	-5.93	-1.99	-0.69	0.46	0.22	-2.27	-3.11	-4.39	-9.56	-6.77	-13.43
315	-8.68	-10.80	-5.80	-2.98	-2.24	-2.36	-2.95	-3.80	-5.40	-6.01	-9.63	-6.85	-13.43
330	-8.67	-10.40	-6.29	-3.37	-2.66	-2.22	-3.96	-4.68	-8.73	-7.89	-8.26	-6.71	-13.43

345	-8.43	-9.59	-6.55	-2.91	-1.00	0.53	-1.07	-3.25	-7.47	-6.26	-6.95	-6.37	-13.43
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7.3 5G DG_NSS3 Test Data

Ant1													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.85	-8.21	-5.61	-2.34	-3.38	-1.62	0.84	-0.59	-3.05	-7.95	-9.19	-13.82	-25.7
15	-10.3	-7.33	-5.56	-3.5	-6.05	-2.85	-1.13	-0.69	-2.39	-6.99	-6.37	-14.53	-25.7
30	-10.89	-6.28	-5.81	-3.58	-3.79	-1.23	-0.45	-0.81	-3.99	-4.59	-4.34	-13.36	-25.7
45	-10.83	-5.51	-4.8	-2.5	-2.07	-1.36	0.24	-2.07	-5.31	-3.05	-4.59	-12.03	-25.7
60	-11.04	-5.01	-3.35	-0.09	-1.14	-0.17	0.37	-2.11	-4.26	-3.32	-6.15	-11.53	-25.7
75	-11.23	-4.91	-2.85	0.98	-0.19	2.46	2.14	-0.51	-3.68	-4.68	-9.33	-12.05	-25.7
90	-11.19	-5.22	-3.51	-0.06	-1.45	2.25	1.61	-0.2	-6.66	-11.19	-16.13	-13.91	-25.7
105	-11.25	-5.94	-4.67	0.14	-0.18	3.21	2.53	-4.84	-9.34	-12.6	-13.44	-18.32	-25.7
120	-11.11	-6.98	-4.71	1.47	1.96	4.42	1.23	-5.98	-7.41	-8.26	-7.39	-13.02	-25.7
135	-10.55	-8.16	-6.26	-0.71	-2.04	-2.37	-4.47	-4.25	-5.72	-3.22	-6.91	-11.31	-25.7
150	-10.51	-9.51	-9.56	-4.52	-2.67	0.39	3.09	1.35	-0.71	-0.47	-6.58	-11.65	-25.7
165	-10.55	-11.52	-10.63	-4.82	-1.08	0.48	2.4	-1.28	-3.59	-1.49	-5.01	-12.9	-25.7
180	-10.51	-13.81	-8.12	-4.16	-1.12	2.03	1.25	-1.2	-6.13	-4.37	-6.65	-16.68	-25.7
195	-10.41	-14.78	-7.52	-4.54	-2.58	1.86	1.84	-2.2	-8.02	-11.6	-10.83	-25.7	-25.7
210	-10.2	-15.93	-7.95	-5.12	-2.84	1.76	2.39	-2.14	-5.38	-9.84	-11.46	-15.46	-25.7
225	-9.78	-16.72	-8.13	-5.35	-2.15	1.06	2.03	-0.76	-5.76	-8.75	-12.92	-13.11	-25.7
240	-9.4	-15.68	-7.57	-5.63	-1.7	1.33	1.52	-0.88	-7.47	-10.82	-15.18	-12.3	-25.7
255	-9.11	-13.37	-6.45	-3.92	-1.62	0.64	1.13	0.41	-4.36	-6.5	-11.11	-11.5	-25.7
270	-9.34	-11.44	-5.49	-1.57	-2.64	-1.36	-0.86	-1.85	-6.91	-9.03	-14.63	-14.95	-25.7
285	-9.62	-10.27	-5.54	-0.98	-1.47	-1.66	-2.23	-5.47	-17	-17.42	-23.21	-16.38	-25.7
300	-10.01	-9.72	-6.9	-1.97	-0.89	0.08	-1.14	-2.84	-10.49	-9.32	-20.74	-14.27	-25.7
315	-10.02	-9.48	-8.2	-5.66	-3.88	-2.15	-3.53	-4.39	-8.65	-10.22	-14.59	-14.09	-25.7
330	-9.81	-9.25	-7.7	-4.74	-3.31	-2.48	-1.13	-2.29	-4.74	-7.4	-12.89	-12.43	-25.7
345	-9.58	-8.76	-6.12	-2.47	-2.11	-1.86	-0.86	-0.86	-4.41	-7.39	-11.19	-11.76	-25.7

Ant2													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.42	-5.68	-5.79	-2.83	0.18	2.09	1.04	-1.83	-13.66	-15.52	-10.27	-15.05	-18.74
15	-9.54	-5.36	-6.83	-2.53	-1.77	0.98	0.89	-2.69	-10.28	-12.53	-10.93	-18.72	-18.74
30	-9.82	-5.44	-7.04	-5.33	-4.09	1.37	2.12	-0.69	-6.49	-11.93	-11.85	-15.55	-18.74
45	-9.97	-5.62	-7.51	-7.96	-2.65	2.44	3.43	0.94	-5.34	-12.91	-16.75	-12.01	-18.74
60	-9.98	-5.63	-7.69	-5.26	-1.06	2.34	3.19	0.56	-6.24	-14.24	-13.65	-10.24	-18.74
75	-9.91	-5.89	-7.09	-3.77	1.37	3.54	3.66	2.29	-4.06	-10.6	-13.31	-8.65	-18.74

90	-9.84	-6.4	-6.28	-4.27	-0.15	3.03	2.19	1.72	-4.68	-11.12	-17.04	-9.07	-18.74
105	-9.99	-7.06	-4.96	-2.86	-3.41	-2	-2.11	-5.26	-8.1	-9.11	-14.47	-11.04	-18.74
120	-10.22	-7.83	-4.96	-0.74	0.34	0.01	0.21	-3.55	-10.56	-8.77	-11.12	-13.38	-18.74
135	-10.36	-9.29	-5.91	-2.18	-1.27	1.17	-1.01	-5.72	-11.12	-11.22	-11.96	-14.81	-18.74
150	-10.34	-10.97	-5.84	-2.26	-3.09	0.74	0.26	-0.63	-5.59	-6.73	-12.92	-15.07	-18.74
165	-10.32	-12.47	-5.52	-2.11	-1.95	-1.4	-1.28	-1.67	-6.36	-7.31	-12.69	-16.24	-18.74
180	-10.23	-13.04	-6.82	-2.15	-0.21	2.43	2.4	2.06	-3.76	-8.18	-10.14	-14.83	-18.74
195	-10.25	-13.6	-8.59	-2.64	-0.52	2.54	2.63	2.13	-1.73	-6.22	-8.39	-12.76	-18.74
210	-10.31	-13.23	-8.32	-1.21	-1.27	0.16	0.93	-0.22	-3.08	-5.93	-9.19	-11.74	-18.74
225	-10.38	-12.11	-6.51	-0.75	-0.99	-0.78	-0.23	-0.78	-4.59	-6.57	-10.96	-10.25	-18.74
240	-9.86	-11.23	-6.52	-1	-0.76	-0.58	-0.03	0.46	-3.04	-4.91	-8.64	-9.18	-18.74
255	-9.75	-11.73	-6.58	-2.54	-0.43	0.48	1.42	2.35	-0.49	-2.38	-8.53	-9.95	-18.74
270	-9.77	-12.57	-7.14	-3.22	-2.22	0.33	-0.09	0.15	-1.49	-3.53	-7.89	-10.28	-18.74
285	-9.76	-13.16	-7.67	-3.56	-1.11	-0.33	-0.02	-0.2	-1.33	-1.96	-6.15	-11.44	-18.74
300	-9.9	-11.69	-7.08	-4.7	-1.21	0.65	1.67	0.55	-2.85	-5.88	-8.07	-13.11	-18.74
315	-9.99	-9.72	-5.27	-3.62	-2.77	0.59	0.29	-0.52	-4.82	-6.32	-17.83	-13.67	-18.74
330	-9.54	-8.05	-4.16	-1.32	0.98	5.1	4.37	3.03	-3.23	-1.99	-11.11	-15.21	-18.74
345	-9.39	-6.66	-4.86	-2.24	0.19	1.9	1	-2.68	-9.31	-7.13	-8.28	-18.74	-18.74

Ant3													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	1.1	0.74	0.09	2.36	1.07	-1.61	-2.15	-2.25	-4.2	-8.32	-2.18	-0.75	-12.32
15	1.08	0.87	0.58	1.7	0.23	-4.23	-3.05	-3.21	-7.31	-5.67	-4.76	-3.67	-12.32
30	0.95	1.04	-0.3	1.74	0.27	-1.25	-3.09	-3.21	-13.39	-6.54	-8.32	-6.9	-12.32
45	0.85	1.28	0.34	1.49	-0.04	-2.54	-2.93	-3.18	-9.89	-15.2	-10.06	-11.16	-12.32
60	0.75	1.06	1.45	2.26	-0.59	-1.68	-1.26	-1.17	-5.74	-8.6	-13	-12.32	-12.32
75	0.81	0.5	0.67	1.31	-1.56	-5.59	-3.18	-3.21	-9.48	-11.86	-9.91	-9.59	-12.32
90	0.91	0.05	-0.09	-1.06	-2.45	-2.74	0.3	-0.87	-5.7	-10.25	-8.58	-6.87	-12.32
105	0.88	0	0.09	-0.6	-3.63	-0.52	-0.03	-2.12	-10.45	-20.56	-15.43	-6.93	-12.32
120	0.83	-0.39	-0.39	-2.11	-4.19	-2.04	0.82	0.09	-3.47	-9.96	-11.84	-7.9	-12.32
135	0.83	-0.89	-1.94	-3.56	-3.53	3.2	2.13	1.48	-1.98	-6.44	-9.43	-7.42	-12.32
150	0.81	-1.34	-3.68	-4.67	-4.62	2.05	1.33	2.23	-0.49	-3.63	-10.48	-8.32	-12.32
165	0.93	-1.47	-4.42	-3.47	-7.56	-0.99	1.55	2.19	-0.56	-3.53	-10.38	-8.31	-12.32
180	1.07	-1.25	-3.51	-0.82	-6.68	-6.43	-1.41	-1.37	-5.61	-6.76	-5.07	-8.72	-12.32
195	1.13	-1.06	-3.42	0.08	-1.74	-4.93	-0.47	-3.12	-8.32	-4.11	-1.75	-9.41	-12.32
210	1.26	-1.22	-3.39	-1.26	-0.47	-0.67	0.89	-4.83	-5.17	0.44	0.34	-7.12	-12.32
225	1.28	-1.08	-2.27	-0.23	-0.76	-0.69	1.01	-3.49	-1.23	2.13	0.81	-3.49	-12.32
240	1.29	-1.23	-2.5	-0.59	-2.35	-3.85	-7.21	-1.09	1.97	2.76	-0.35	-1.44	-12.32
255	1.22	-1.19	-3.99	-3.2	-4.92	-4.29	-7.93	-4.06	1.98	2.34	0.23	0.6	-12.32
270	1.25	-0.98	-4.17	-3.21	-5.79	-4	-3.19	-4.04	2.73	3.44	-0.33	0.9	-12.32
285	1.32	-0.66	-3.17	-1.5	-3.19	-3.22	-3.13	-0.64	1.36	0.69	-1.65	0.05	-12.32
300	1.37	-0.2	-2	-1.54	-2.04	-1.97	-3.4	-1.06	-1.5	2.5	1.52	-0.09	-12.32

315	1.29	0.15	-1.57	-1.08	0.02	0.04	-1.23	1.29	-2.07	2.74	1.31	0.63	-12.32
330	1.24	0.35	-1.18	0.17	0.75	0.36	0.26	2	-1.09	-2.03	-1.13	0.82	-12.32
345	1.11	0.59	-0.85	1.27	0.54	0.39	0.45	1.81	-6.13	-0.85	-0.75	0.59	-12.32

Ant4													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.64	1.35	0.26	-10.17	0.03	3.53	2.42	0.7	-5.66	-7.64	-4.12	-6.99	-17.88
15	0.76	1.45	-0.85	-17.39	0.23	1.5	0.91	-1.14	-5.49	-6.22	-2.51	-10.73	-17.88
30	0.82	1.3	-1.05	-14.61	-0.91	-0.98	0.29	-3.45	-7.07	-6.03	-2.31	-17.88	-17.88
45	0.86	1.15	-0.31	-7.88	-6.59	-4.24	-5.54	-6.65	-10.67	-8.74	-4.15	-12.02	-17.88
60	0.83	1.07	0.57	-2.45	-9.78	-3.76	-4.52	-10.11	-6.36	-10.01	-3.38	-7.3	-17.88
75	0.76	0.84	1.37	-0.29	-7.82	-7.16	-6.41	-6.17	-4.36	-3.92	-3.82	-5.64	-17.88
90	0.66	0.32	0.6	-0.45	-9.32	-8.81	-9.7	-6.19	-4.15	-4.25	-6.05	-5.49	-17.88
105	0.65	-0.61	-1.58	-1.23	-5.39	-6.43	-7.55	-0.52	-2.25	-2.66	-5.58	-5.47	-17.88
120	0.71	-1.79	-4.01	-1.06	-3.88	-9.87	-7.46	-0.04	-2.36	-2.14	-4.78	-6.1	-17.88
135	0.86	-2.57	-3.33	0.06	-0.74	-2.82	-3.48	-2.18	-2.23	-0.12	-3.48	-5.02	-17.88
150	0.87	-2.57	-1.16	1.45	-0.21	1.66	0.8	-4.64	-2.13	1.57	-1.9	-4.72	-17.88
165	0.81	-1.84	-0.08	2.06	-1.07	2.18	1.47	-3.74	-5.53	1.75	-1.72	-4.49	-17.88
180	0.66	-0.88	0.56	2.4	-0.73	-0.16	0.12	-1.79	-9.81	0.16	-1.15	-4.98	-17.88
195	0.52	-0.12	0.71	2.27	-0.01	-0.4	-0.85	1.79	-3.68	-3.71	-2.12	-5.53	-17.88
210	0.46	0.36	0.58	1.44	-0.37	-0.93	-1.64	2.45	-1.38	-6.72	-4.16	-5.51	-17.88
225	0.47	0.37	-0.48	-1.06	-2.1	-1.79	-3.89	-1.52	-2.61	-8.3	-8.36	-6.06	-17.88
240	0.59	0.01	-1.68	-3.43	-2.86	-2.81	-6.47	-5.85	-2.98	-4.63	-9.71	-6.08	-17.88
255	0.62	-0.25	-2.4	-1.93	-2.86	-5.95	-7.91	-13.25	-7.64	-3.42	-9.37	-5.35	-17.88
270	0.63	-0.49	-1.34	-0.18	-0.77	-2.41	-6.7	-11.27	-10.01	-5.58	-12	-5.88	-17.88
285	0.64	-0.54	-0.22	0.45	-2.68	-3.89	-10.37	-10.63	-9.57	-5.9	-9.93	-6.26	-17.88
300	0.57	-0.31	0.43	-1.5	-7.64	-4.27	-10.01	-7.97	-11.52	-6.39	-14.01	-5.37	-17.88
315	0.47	0.04	0.68	-2.98	-4.8	-1.75	-5.43	-9.13	-11.32	-6.2	-18.72	-4.79	-17.88
330	0.55	0.45	0.87	-3.09	-5.43	0.43	0.48	-3.27	-12.04	-9.16	-15.77	-5.1	-17.88
345	0.58	0.91	0.89	-5.25	-1.38	3.82	2.73	-0.21	-8.85	-8.9	-9.94	-5.43	-17.88

5250MHz Composite Gain of Ant1, Ant2 &Ant3													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.99	-2.71	-2.84	-0.26	-0.33	0.00	0.13	-1.50	-5.14	-9.51	-5.63	-5.16	-16.04
15	-3.05	-2.47	-2.65	-0.82	-1.83	-1.45	-0.80	-2.06	-5.44	-7.55	-6.67	-7.98	-16.04
30	-3.22	-2.24	-3.33	-1.30	-2.05	-0.19	0.03	-1.43	-6.52	-6.75	-7.13	-10.33	-16.04
45	-3.31	-1.99	-2.76	-1.48	-1.44	0.06	0.99	-1.07	-6.39	-7.16	-8.08	-11.71	-16.04
60	-3.41	-2.06	-1.70	-0.06	-0.92	0.49	1.16	-0.76	-5.33	-6.70	-9.51	-11.28	-16.04
75	-3.36	-2.46	-2.03	0.04	0.04	1.56	1.70	0.09	-5.07	-7.85	-10.53	-9.88	-16.04
90	-3.27	-2.89	-2.57	-1.46	-1.25	1.48	1.44	0.36	-5.60	-10.83	-12.15	-9.09	-16.04
105	-3.31	-3.15	-2.51	-0.93	-2.10	0.81	0.54	-3.84	-9.19	-12.06	-14.37	-10.06	-16.04

120	-3.36	-3.70	-2.81	-0.21	0.05	1.66	0.77	-2.43	-6.20	-8.94	-9.65	-10.66	-16.04
135	-3.34	-4.42	-4.23	-1.99	-2.18	1.23	-0.33	-1.65	-4.86	-5.86	-8.96	-10.18	-16.04
150	-3.35	-5.10	-5.74	-3.67	-3.38	1.12	1.72	1.14	-1.72	-2.89	-9.20	-10.85	-16.04
165	-3.25	-5.53	-6.15	-3.33	-2.75	-0.56	1.15	0.12	-2.87	-3.50	-8.13	-11.30	-16.04
180	-3.12	-5.52	-5.70	-2.17	-1.89	0.76	1.02	0.14	-5.04	-6.15	-6.82	-12.01	-16.04
195	-3.06	-5.42	-5.90	-1.95	-1.53	0.85	1.52	-0.42	-4.87	-6.34	-5.25	-12.46	-16.04
210	-2.94	-5.59	-5.93	-2.19	-1.42	0.54	1.46	-2.01	-4.41	-3.11	-3.72	-10.15	-16.04
225	-2.90	-5.41	-4.90	-1.59	-1.26	-0.05	1.03	-1.50	-3.42	-1.79	-3.51	-7.06	-16.04
240	-2.83	-5.45	-4.95	-1.89	-1.55	-0.55	-0.62	-0.45	-1.25	-1.17	-4.40	-5.24	-16.04
255	-2.86	-5.36	-5.50	-3.18	-1.95	-0.54	-0.23	0.29	-0.24	-0.76	-3.73	-3.57	-16.04
270	-2.85	-5.11	-5.43	-2.59	-3.29	-1.33	-1.19	-1.58	-0.32	-0.34	-4.26	-3.45	-16.04
285	-2.81	-4.77	-5.08	-1.88	-1.83	-1.58	-1.59	-1.55	-1.50	-2.15	-5.08	-4.33	-16.04
300	-2.80	-4.24	-4.64	-2.53	-1.35	-0.28	-0.47	-0.90	-3.58	-1.44	-2.78	-4.49	-16.04
315	-2.88	-3.79	-4.18	-3.05	-1.89	-0.36	-1.22	-0.63	-4.41	-1.33	-3.30	-3.84	-16.04
330	-2.88	-3.44	-3.58	-1.52	-0.13	2.12	1.83	1.44	-2.76	-3.18	-5.23	-3.65	-16.04
345	-2.96	-3.03	-3.33	-0.79	-0.31	0.41	0.26	-0.18	-6.18	-3.99	-4.49	-3.89	-16.04

5250MHz Composite Gain of Ant1, Ant2 &Ant4													
Freq	5250												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.38	-2.25	-2.73	-3.98	-0.78	1.82	1.49	-0.45	-5.69	-9.20	-6.98	-10.41	-19.67
15	-3.32	-2.05	-3.61	-4.67	-1.83	0.26	0.32	-1.43	-4.98	-7.83	-5.36	-13.53	-19.67
30	-3.33	-2.05	-3.82	-5.93	-2.68	-0.11	0.79	-1.48	-5.63	-6.57	-4.68	-15.22	-19.67
45	-3.30	-2.08	-3.19	-5.30	-3.36	-0.20	0.72	-1.59	-6.49	-6.44	-6.00	-12.02	-19.67
60	-3.34	-2.06	-2.28	-2.11	-2.58	0.14	0.70	-2.10	-5.51	-6.97	-6.05	-9.32	-19.67
75	-3.41	-2.23	-1.58	-0.61	-0.80	1.48	1.45	-0.26	-4.02	-5.56	-7.15	-8.03	-19.67
90	-3.49	-2.71	-2.15	-1.23	-2.22	1.05	0.30	-0.49	-5.04	-7.54	-10.11	-8.27	-19.67
105	-3.51	-3.56	-3.45	-1.15	-2.46	-0.07	-0.65	-2.97	-5.39	-6.20	-9.24	-9.01	-19.67
120	-3.47	-4.65	-4.54	0.04	0.09	1.11	-0.69	-2.51	-5.48	-5.26	-7.05	-9.44	-19.67
135	-3.31	-5.61	-4.96	-0.85	-1.32	-0.95	-2.73	-3.81	-5.02	-2.94	-6.22	-8.52	-19.67
150	-3.30	-6.05	-4.21	-1.07	-1.79	0.96	1.56	-0.67	-2.37	-0.71	-5.15	-8.37	-19.67
165	-3.35	-5.84	-3.47	-0.70	-1.35	0.66	1.12	-2.10	-5.00	-0.98	-4.59	-8.43	-19.67
180	-3.47	-5.19	-3.01	-0.41	-0.67	1.57	1.36	0.04	-5.91	-2.85	-4.44	-9.07	-19.67
195	-3.59	-4.56	-3.03	-0.65	-0.90	1.50	1.44	0.96	-3.78	-6.12	-5.52	-9.51	-19.67
210	-3.63	-4.13	-3.16	-0.87	-1.38	0.47	0.86	0.44	-2.98	-7.20	-7.17	-9.01	-19.67
225	-3.59	-4.08	-3.72	-1.95	-1.71	-0.34	-0.07	-1.01	-4.12	-7.77	-10.34	-8.85	-19.67
240	-3.42	-4.34	-4.45	-2.95	-1.69	-0.37	-0.56	-1.37	-4.06	-6.02	-10.39	-8.47	-19.67
255	-3.37	-4.53	-4.68	-2.72	-1.52	-0.74	-0.23	-0.20	-3.21	-3.78	-9.54	-8.11	-19.67
270	-3.38	-4.68	-3.94	-1.48	-1.80	-1.00	-1.73	-2.31	-4.71	-5.50	-10.62	-8.93	-19.67
285	-3.39	-4.66	-3.31	-1.06	-1.70	-1.72	-2.50	-3.55	-5.39	-5.17	-9.34	-9.57	-19.67
300	-3.49	-4.34	-3.00	-2.51	-2.36	-0.70	-1.08	-2.18	-6.46	-6.96	-11.67	-9.01	-19.67
315	-3.59	-3.88	-2.68	-3.94	-3.74	-0.93	-2.22	-3.39	-7.45	-7.23	-16.66	-8.60	-19.67
330	-3.47	-3.36	-2.28	-2.83	-1.75	2.14	1.88	0.10	-5.36	-5.06	-12.86	-8.79	-19.67

345	-3.41	-2.78	-2.22	-3.12	-0.99	1.87	1.20	-1.13	-6.92	-7.74	-9.64	-9.13	-19.67
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Ant1													
Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.58	-12.23	-5.93	-3.05	-4.09	-2.5	-0.93	-0.31	-3.13	-6.23	-8.75	-14.14	-18.44
15	-11.62	-10.65	-6.61	-4.72	-3.89	-1.28	-0.7	0.29	-0.8	-4.74	-5.45	-12.54	-18.44
30	-12.35	-7.93	-6.49	-3.94	-2.52	1.45	0.87	0.86	-2.38	-2.91	-3.05	-9.21	-18.44
45	-12.78	-6.36	-5.38	-3.96	-3.35	-0.34	0.85	-1.39	-4.94	-1.48	-3.41	-8.21	-18.44
60	-13.21	-5.69	-4.14	-1.58	-3.73	-1.45	0.61	-2.31	-4.71	-2.59	-5.83	-8.07	-18.44
75	-13.19	-5.33	-2.84	0.28	-1.68	1.53	1.48	-0.91	-3.72	-3.71	-8.16	-9.19	-18.44
90	-12.64	-5.12	-3.38	0.01	-1.24	2.17	0.62	0.32	-5.34	-7.55	-13.77	-11.82	-18.44
105	-12.32	-5.11	-4.45	-0.06	-0.6	2.6	2.53	-1.98	-8.97	-16.19	-17.74	-15.93	-18.44
120	-12.57	-5.49	-3.7	2.12	2.87	4.47	2.83	-3.41	-8.69	-9.47	-7.23	-12.61	-18.44
135	-12.79	-6.43	-4.4	0.31	0.34	-1.81	-6.88	-5.94	-6.79	-3.34	-5.78	-10.43	-18.44
150	-12.69	-8.25	-6.78	-5.03	-1.92	-0.03	1.87	1.97	-0.58	-0.57	-6.56	-11.52	-18.44
165	-12.53	-10.81	-11.49	-4.86	-0.49	1.04	3.08	0.13	-3.99	-1.88	-5.08	-11.35	-18.44
180	-12.46	-14.35	-9.4	-3.64	-1.27	1.28	1.03	-1.56	-5.6	-3.4	-6.11	-13.47	-18.44
195	-12.51	-18.3	-8.42	-4.33	-2.49	1.92	2.03	-1.6	-7.8	-12.28	-12.35	-18.44	-18.44
210	-12.21	-21.18	-9.47	-5.13	-2.31	2.18	2.69	-0.47	-6.45	-10.02	-11.92	-14.49	-18.44
225	-12.05	-19.37	-10.54	-5.41	-1.91	1.15	2.05	0.08	-6.97	-9.1	-11.44	-12.02	-18.44
240	-11.7	-15.96	-9.39	-5.54	-2.14	1.27	1.48	-0.69	-7.09	-9.4	-13.46	-10.68	-18.44
255	-11.37	-13.64	-7.64	-3.05	-2.28	0.38	0.77	0.56	-4.36	-6.41	-11.47	-9.66	-18.44
270	-11.44	-12.38	-6.73	-1.76	-1.83	-0.52	-1.31	-2.17	-7.01	-9.3	-16.87	-13.49	-18.44
285	-11.78	-11.63	-7.2	-2.54	-1.95	-0.67	-2.46	-4.64	-15.42	-13.07	-21.13	-17.2	-18.44
300	-12	-11.23	-8.9	-4.05	-2.4	-0.18	-1.77	-1.67	-10.71	-8.85	-17.81	-15.18	-18.44
315	-12.04	-11.35	-11.15	-7.45	-3.96	-2.12	-4.32	-3.63	-8.03	-11.25	-16.51	-14.39	-18.44
330	-12.11	-11.3	-7.51	-5.01	-2.61	-1.38	-0.54	-1.42	-5.28	-7.03	-14.99	-13.38	-18.44
345	-11.86	-11.15	-5.79	-2.26	-2.27	-0.83	0.64	-0.83	-6.25	-7.09	-12.16	-14.4	-18.44

Ant2													
Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-10.9	-5.92	-4.44	-3.21	0.74	1.64	0.07	-2.27	-16.56	-13.64	-10.54	-13.78	-15.82
15	-11.45	-5.51	-4.34	-4.32	-1.8	0.6	0.75	-1.5	-10.78	-12.3	-10.11	-15.82	-15.82
30	-12.16	-5.1	-4.43	-8.31	-6.3	1.2	1.98	0.05	-7.93	-12.07	-10.29	-12.91	-15.82
45	-12.5	-4.98	-4.98	-9.85	-3.92	2.25	2.9	1.39	-6.64	-13.39	-15.47	-12.56	-15.82
60	-12.42	-5.41	-5.37	-6.38	-0.85	2.68	2.95	1.75	-6.39	-15.55	-13.35	-11.41	-15.82
75	-12.09	-6.25	-5.79	-5.35	1.17	3.56	3.55	2.94	-3.93	-13	-14.77	-11.58	-15.82
90	-11.97	-7.44	-4.92	-5.27	-1.11	1.97	2.76	1.17	-5.38	-14.02	-18.6	-13.37	-15.82
105	-11.94	-8.96	-4.24	-1.98	-1.52	-1.48	-1.57	-4.22	-8.96	-9.64	-13.84	-14.68	-15.82
120	-11.79	-10.35	-4.68	-1.02	0.41	-0.84	-0.02	-4.07	-12.17	-10.91	-11.95	-13.35	-15.82

135	-12.04	-11.74	-5.49	-2.92	-2.01	0.7	-1.08	-4.38	-11.44	-11.76	-14.69	-15.18	-15.82
150	-12.52	-14.11	-6.33	-2.72	-3.4	-1.01	-0.67	-1.52	-6.74	-8.63	-15.97	-14.72	-15.82
165	-12.53	-16.6	-7.04	-1.8	-1.91	-0.52	-1.87	-1.73	-8.2	-11.47	-14.53	-14.21	-15.82
180	-12.31	-16.13	-7.31	-1.62	0.97	3.04	2.26	2.14	-2.79	-10.5	-12.09	-15.7	-15.82
195	-11.82	-15.24	-6.5	-0.8	0.14	2.09	2.04	1.65	-1.17	-6.74	-10.84	-15.64	-15.82
210	-10.86	-15.5	-6.41	-0.57	-0.48	0.88	1.67	0.61	-2.88	-6.47	-12.48	-14.99	-15.82
225	-10.42	-16.01	-5.86	-0.7	-0.65	0.68	1.17	1.33	-4.07	-7.51	-12.34	-12.49	-15.82
240	-10.75	-15.74	-5.78	-1.53	-0.9	-0.38	-0.58	0.67	-4.05	-6.78	-11.6	-9.43	-15.82
255	-11.12	-14.92	-6.94	-2.88	-0.25	-0.41	-0.16	2.12	-0.99	-2.95	-9.46	-9.6	-15.82
270	-11.16	-13.92	-7.7	-4.16	-1.53	0.38	-0.27	1.06	0.32	-3.14	-6.4	-9.46	-15.82
285	-11.34	-12.79	-8.14	-3.79	-2.36	-0.62	-0.99	-0.32	-0.4	-2.5	-5.05	-9.98	-15.82
300	-11.16	-11.94	-8.37	-3.99	-1.23	0.75	1.74	1.18	-2.24	-4.65	-6.27	-11.55	-15.82
315	-10.74	-10.48	-7.24	-4.73	-2.64	0.36	0.18	-0.65	-4.94	-7.95	-14.88	-11.16	-15.82
330	-10.68	-8.38	-5.57	-1.35	1.2	5.24	4.86	1.74	-2.75	-1.73	-16.57	-12.31	-15.82
345	-10.8	-6.77	-4.64	-1.24	1	3.88	1.58	-1.35	-7.17	-5.3	-10.03	-13.95	-15.82

Ant3													
Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	1.2	0.32	-0.81	1.46	0.67	-1.97	-4.48	-0.59	-3.83	-8.81	-1.89	-0.19	-10.29
15	1.02	0.93	-0.59	0.4	0.47	-2.67	-4.63	-4.87	-8.95	-5.29	-3.48	-2.6	-10.29
30	0.94	1.23	-0.8	-0.18	0.33	-0.64	-3.98	-3.35	-11.85	-5.42	-6.6	-4.91	-10.29
45	1.02	1.02	0.6	-1.36	0.22	-3.45	-4.07	-3.09	-7.6	-10.92	-7.71	-8.1	-10.29
60	1.08	0.32	0.92	1.89	-0.47	-2.03	-2.09	-0.16	-2.72	-6.33	-11.53	-8.89	-10.29
75	1.15	-0.34	0.85	1.7	-0.1	-5.65	-2.32	-2.16	-6.25	-10.3	-11.33	-7.71	-10.29
90	1.09	-0.73	0.84	0.04	-1.75	-2.55	-0.14	-0.99	-3.23	-10.53	-8.83	-5.58	-10.29
105	0.99	-1.06	0.33	-0.35	-1.87	-0.23	-0.05	-3.21	-6.74	-16.3	-13.81	-5.36	-10.29
120	0.99	-1.29	-0.47	-1.05	-3.22	0.04	1.04	-0.38	-3.02	-8.32	-12.12	-5.48	-10.29
135	1.07	-1.43	-1.64	-3.21	-3.37	1.6	2.19	1.91	-1.61	-7.43	-9.4	-4.33	-10.29
150	1.07	-1.64	-1.95	-3.73	-4.39	1.95	2.64	2.35	-0.45	-3.67	-10.17	-5.39	-10.29
165	1.13	-1.9	-2.54	-2.22	-7.57	-1.29	0.98	1.1	-1.43	-3.03	-10.21	-7.19	-10.29
180	1.14	-2.01	-2.4	-0.6	-7.65	-5.16	-2.56	-2.07	-6.98	-7.1	-4.53	-8.86	-10.29
195	1.16	-1.8	-1.85	1.23	-3.58	-3.16	-0.96	-2.02	-8.08	-4.3	-0.26	-10.29	-10.29
210	1.3	-1.52	-1.84	-0.22	-1.68	0.15	-0.69	-3.16	-7.67	-1.73	1.68	-8.18	-10.29
225	1.48	-1.73	-1.58	1.3	-2.07	-0.21	0.57	-1.37	-1.78	1.38	1.18	-4.68	-10.29
240	1.38	-1.57	-2.3	-0.5	-3.32	-5.41	-6.27	-3.09	2.37	3.49	-0.08	-2.47	-10.29
255	1.42	-1.24	-4.01	-4.08	-5.75	-4.24	-5.31	-8.87	2.32	3.93	0.6	-0.23	-10.29
270	1.25	-0.84	-3.04	-3	-3.57	-4.36	-3.57	-2.36	2.73	3.92	-0.06	0.62	-10.29
285	1.2	-0.59	-2.14	-1.45	-2.29	-2.03	-2.42	0.53	2.05	1.08	-1.9	0.49	-10.29
300	1.25	-0.54	-2.45	-2.14	-2.18	-1.82	-3.93	-0.89	-2.04	2.62	1.28	0.9	-10.29
315	1.43	-0.42	-3.04	-2.74	-0.33	-0.34	-3.62	0.96	-3.63	3.19	0.98	1.46	-10.29
330	1.39	-0.26	-3.25	-1.13	-0.72	-1.1	-2.9	2.32	-0.22	-1.71	-1.25	1.4	-10.29
345	1.44	-0.09	-2.11	1.03	1.33	-0.15	-0.69	2.32	-1.82	-1.27	-0.33	1.18	-10.29

Ant4													
Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.99	0.92	-0.03	-10.17	-0.54	3.67	3.6	1.43	-8.71	-6.36	-2.93	-7.56	-15.53
15	0.99	1	-1.12	-12.61	0.24	2.42	1.59	-1.59	-6.61	-3.91	-2.69	-11.68	-15.53
30	1.03	0.78	-0.14	-11.11	-1.02	0.91	-0.26	-5.31	-7.12	-5.49	-3.15	-15.53	-15.53
45	1.02	0.62	0.98	-2.98	-8.94	-2.57	-4.09	-5.68	-11.04	-13.98	-4.91	-10	-15.53
60	1	0.51	1.05	0.5	-8.44	-5.69	-2.27	-9.81	-4.91	-8.28	-3.78	-7.38	-15.53
75	0.95	0.09	0.21	-0.06	-9.78	-6.87	-6.19	-7.21	-3.8	-3.09	-3.68	-6.99	-15.53
90	0.83	-0.89	-1.76	-2.22	-8.41	-9.47	-9.21	-5.2	-3.56	-6.28	-6.23	-6.34	-15.53
105	0.75	-2.12	-3.32	-1.22	-3.09	-6.28	-10.58	-1.47	-0.88	-3.52	-5.81	-5.9	-15.53
120	0.8	-3.24	-3.28	-0.98	-2.55	-6.36	-12.24	-1.23	-0.96	-1.64	-5.51	-6.58	-15.53
135	0.88	-3.71	-2.49	-0.66	-1.76	-1.36	-2.31	-1.71	-1.9	0.73	-3.91	-5.69	-15.53
150	0.97	-2.98	-1.22	0.61	-1.05	1.72	1.73	-2.5	-2.81	2.15	-1.7	-5.16	-15.53
165	0.98	-2.03	-0.82	1.03	-1.02	2.27	2.42	-2.55	-6.77	2	-1.44	-4.43	-15.53
180	0.88	-1.07	-0.12	1.6	-0.21	0.23	1.18	-2.58	-8.82	0.32	-0.4	-4.44	-15.53
195	0.74	-0.27	0.37	2.12	0.24	-0.16	-1.79	0.24	-3.22	-2.84	-0.95	-5.45	-15.53
210	0.63	0.19	0.51	1.76	-0.07	-0.04	-3.31	1.92	-0.27	-5.59	-3.56	-6.01	-15.53
225	0.71	0.42	0.57	-0.65	-2.56	-1.72	-4.73	-1.51	-1.96	-7.8	-7.9	-6.34	-15.53
240	0.84	0.32	-0.03	-3.08	-3.54	-1.16	-6.4	-4.79	-3	-6.14	-7.91	-5.9	-15.53
255	0.94	-0.24	-1.08	-3.48	-3.48	-4.72	-9.68	-11.04	-6.24	-4.24	-6.88	-4.57	-15.53
270	1.04	-1.06	-1.9	-1.25	-1.66	-3.46	-8.3	-11.38	-15.22	-6.01	-11.16	-5.09	-15.53
285	0.98	-1.33	-0.89	0.28	-2.43	-3.16	-12.78	-9.2	-9.33	-6.5	-9.79	-6.32	-15.53
300	0.87	-1.27	0.47	-0.11	-6.71	-7.54	-10.07	-6.27	-11.01	-7.6	-10.62	-6.34	-15.53
315	0.86	-0.77	1.01	-1.79	-7.3	-2.14	-5.53	-9.92	-12.25	-4.57	-15.9	-5.96	-15.53
330	0.87	-0.04	1.12	-4.09	-5.45	-3.37	-3.71	-3.95	-8.63	-9.54	-14.14	-5.68	-15.53
345	0.91	0.54	0.82	-5.64	-2.13	1.13	0.51	0.73	-8.61	-11.13	-7.98	-5.77	-15.53

5350MHz Composite Gain of Ant1, Ant2 &Ant3													
Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.10	-3.33	-3.17	-1.02	-0.39	-0.53	-1.39	-0.97	-5.12	-8.61	-5.38	-4.61	-13.50
15	-3.29	-2.71	-3.13	-2.21	-1.38	-0.91	-1.00	-1.54	-4.59	-6.38	-5.57	-6.77	-13.50
30	-3.43	-2.22	-3.26	-2.98	-2.05	0.76	0.28	-0.47	-5.72	-5.42	-5.70	-7.83	-13.50
45	-3.39	-2.19	-2.33	-3.85	-1.94	0.08	0.74	-0.63	-6.25	-5.54	-6.62	-9.19	-13.50
60	-3.35	-2.64	-1.96	-0.84	-1.46	0.28	0.96	0.07	-4.35	-5.68	-9.00	-9.24	-13.50
75	-3.27	-3.14	-1.76	-0.24	-0.05	1.21	1.52	0.53	-4.49	-7.22	-10.63	-9.21	-13.50
90	-3.30	-3.52	-1.77	-1.14	-1.36	1.00	1.26	0.26	-4.53	-9.94	-12.06	-8.88	-13.50
105	-3.38	-3.91	-2.18	-0.72	-1.30	0.64	0.64	-3.04	-8.09	-12.84	-14.78	-9.32	-13.50
120	-3.38	-4.29	-2.56	0.29	0.68	1.89	1.45	-2.31	-6.35	-9.44	-9.80	-8.93	-13.50
135	-3.33	-4.71	-3.53	-1.63	-1.40	0.39	-0.55	-1.40	-4.90	-6.25	-8.61	-7.87	-13.50
150	-3.34	-5.36	-4.43	-3.73	-3.12	0.48	1.49	1.25	-1.79	-3.18	-9.43	-8.82	-13.50

165	-3.28	-6.02	-5.60	-2.77	-2.44	-0.15	1.18	-0.01	-3.73	-3.92	-8.33	-9.97	-13.50
180	-3.26	-6.38	-5.35	-1.78	-1.41	0.87	0.68	-0.06	-4.76	-6.07	-6.58	-11.72	-13.50
195	-3.22	-6.29	-4.68	-0.74	-1.69	0.86	1.25	-0.33	-4.42	-6.69	-4.43	-13.46	-13.50
210	-3.04	-6.08	-4.79	-1.48	-1.42	1.15	1.44	-0.74	-5.17	-4.79	-2.75	-11.36	-13.50
225	-2.84	-6.27	-4.59	-0.81	-1.50	0.58	1.31	0.15	-3.78	-2.53	-3.18	-8.15	-13.50
240	-2.94	-6.03	-4.91	-2.04	-2.01	-0.72	-0.76	-0.77	-1.13	-0.69	-4.37	-5.93	-13.50
255	-2.90	-5.60	-5.90	-3.31	-2.21	-1.01	-0.88	-0.15	-0.19	0.29	-3.52	-4.10	-13.50
270	-3.06	-5.12	-5.33	-2.86	-2.22	-1.07	-1.51	-0.85	0.21	0.10	-3.85	-3.59	-13.50
285	-3.13	-4.80	-4.97	-2.49	-2.20	-1.06	-1.90	-0.96	-0.72	-2.00	-4.92	-3.84	-13.50
300	-3.09	-4.68	-5.51	-3.30	-1.91	-0.29	-0.68	-0.29	-3.61	-1.15	-2.74	-3.53	-13.50
315	-2.91	-4.47	-5.95	-4.57	-2.05	-0.58	-2.11	-0.72	-5.17	-1.12	-3.61	-2.97	-13.50
330	-2.94	-4.12	-5.10	-2.17	-0.44	2.08	1.72	1.16	-2.27	-2.88	-5.72	-3.05	-13.50
345	-2.89	-3.74	-3.90	-0.60	0.29	1.50	0.61	0.37	-4.41	-3.85	-4.41	-3.34	-13.50

5350MHz Composite Gain of Ant1, Ant2 &Ant4													
Freq	5350												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.29	-2.86	-2.71	-4.48	-0.86	1.61	1.37	-0.13	-6.69	-7.67	-6.13	-10.69	-16.41
15	-3.32	-2.66	-3.44	-5.95	-1.50	0.84	0.65	-0.84	-4.23	-5.73	-5.13	-13.02	-16.41
30	-3.35	-2.55	-2.86	-6.79	-2.77	1.19	0.96	-0.75	-5.07	-5.45	-4.46	-11.78	-16.41
45	-3.39	-2.46	-2.07	-4.73	-4.79	0.22	0.74	-1.02	-6.87	-5.76	-5.70	-9.91	-16.41
60	-3.42	-2.51	-1.87	-1.66	-3.34	-0.24	0.93	-1.37	-5.27	-6.15	-6.16	-8.63	-16.41
75	-3.45	-2.86	-2.14	-1.07	-1.56	1.14	1.15	-0.05	-3.82	-4.92	-6.88	-8.86	-16.41
90	-3.54	-3.62	-3.16	-1.99	-2.54	0.46	0.23	-0.48	-4.67	-8.23	-10.09	-9.40	-16.41
105	-3.59	-4.56	-3.98	-1.01	-1.62	-0.35	-0.66	-2.40	-4.48	-7.16	-9.71	-9.77	-16.41
120	-3.55	-5.48	-3.85	0.30	0.78	1.09	-0.04	-2.73	-4.78	-5.33	-7.49	-9.71	-16.41
135	-3.50	-6.20	-3.95	-0.89	-1.01	-0.68	-2.81	-3.65	-5.10	-2.43	-6.29	-8.85	-16.41
150	-3.44	-6.37	-3.99	-1.76	-2.02	0.38	1.12	-0.24	-2.70	-0.53	-5.12	-8.65	-16.41
165	-3.42	-6.13	-4.37	-1.24	-1.10	1.08	1.69	-1.23	-5.96	-1.14	-4.50	-8.03	-16.41
180	-3.50	-5.51	-3.72	-0.68	-0.07	1.67	1.53	-0.17	-5.07	-2.67	-3.91	-8.42	-16.41
195	-3.61	-4.84	-3.14	-0.25	-0.53	1.40	1.09	0.29	-3.29	-5.79	-5.02	-9.63	-16.41
210	-3.64	-4.43	-3.11	-0.48	-0.85	1.10	1.02	0.80	-2.51	-6.98	-7.28	-9.75	-16.41
225	-3.53	-4.21	-3.05	-1.76	-1.63	0.21	0.35	0.12	-3.87	-8.08	-10.11	-9.31	-16.41
240	-3.42	-4.25	-3.40	-3.09	-2.06	0.03	-0.77	-1.06	-4.40	-7.23	-10.36	-8.18	-16.41
255	-3.34	-4.68	-4.15	-3.13	-1.79	-1.08	-1.22	-0.23	-3.31	-4.31	-8.86	-7.24	-16.41
270	-3.25	-5.32	-4.65	-2.22	-1.67	-0.92	-2.15	-1.86	-3.61	-5.46	-9.64	-8.07	-16.41
285	-3.33	-5.44	-4.13	-1.67	-2.24	-1.33	-3.26	-3.33	-4.53	-5.55	-8.48	-9.30	-16.41
300	-3.43	-5.30	-3.35	-2.30	-2.89	-1.11	-1.24	-1.29	-5.96	-6.66	-9.47	-9.55	-16.41
315	-3.42	-4.77	-2.93	-4.06	-4.23	-1.13	-2.49	-3.32	-7.47	-7.10	-15.71	-9.13	-16.41
330	-3.41	-3.94	-2.34	-3.19	-1.44	1.79	1.63	-0.59	-4.93	-4.86	-15.12	-9.03	-16.41
345	-3.37	-3.25	-2.18	-2.68	-0.85	1.82	0.94	-0.39	-7.24	-7.23	-9.73	-9.44	-16.41

Ant1													
Freq	5700												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-22.19	-17.03	-12.7	-7.93	-2.28	-1.44	1.89	1.98	-1.25	-4.41	-8.35	-8.48	-15.12
15	-20.27	-14.23	-17.34	-4.52	-0.75	0.11	1.67	1.2	0.68	-7.76	-4.62	-6.56	-15.12
30	-22.04	-12.99	-14.57	-3.14	-2.59	-0.12	-0.22	-0.09	-1.94	-6.49	-2.29	-5.93	-15.12
45	-23.46	-10.24	-13.32	-6.23	-4.39	-0.48	0.41	-2.27	-6.04	-4.44	-3.78	-7.11	-15.12
60	-22.78	-8.87	-10.25	-22.46	-7.85	-1.07	1.32	-3.29	-4.85	-4.28	-8.2	-7.55	-15.12
75	-22.75	-7.97	-9.16	-9.67	-7.65	0.61	2.72	0.48	-1.16	-3.08	-7.47	-6.79	-15.12
90	-20.95	-7.8	-9.17	-6.87	-6.65	0.75	2.12	1.04	-0.75	-3.16	-6	-5.73	-15.12
105	-19.47	-8.21	-9.58	-5.95	-3.26	1.59	-0.17	-0.66	-3.03	-8.39	-10.62	-5.7	-15.12
120	-20.83	-9.16	-6.6	-2.06	0.15	2.05	2.15	1.11	-4.92	-15.42	-8.14	-6.3	-15.12
135	-21.68	-9.97	-3.63	-0.26	1.26	-0.74	-3	-9.03	-12.49	-5.9	-4.56	-5.5	-15.12
150	-21.61	-11.04	-2.86	-3.59	-1.1	-4.35	3.76	0.67	-2.24	-0.38	-6.15	-7.91	-15.12
165	-22.14	-14.27	-5.63	-8.87	-0.79	1.55	4.51	0.11	-4.22	-2.15	-5.94	-9.43	-15.12
180	-21.75	-19.3	-10.8	-2.74	-0.24	2.15	2.12	-0.24	-6.1	-5.16	-6.42	-12.32	-15.12
195	-21.27	-17.81	-19.86	-3.47	-4.79	-0.38	0.2	-3.24	-12.02	-8.63	-11.55	-15.12	-15.12
210	-21.1	-14.37	-14.49	-14.06	-6.41	0.66	1.8	-1.71	-5.81	-12.43	-12.77	-13.48	-15.12
225	-21.51	-11.05	-10.49	-20.44	-4.45	1.34	2.46	-0.75	-6.55	-11.77	-9.56	-9.15	-15.12
240	-22.31	-8.96	-8.6	-11.71	-4.2	-0.04	0.72	-2.56	-6.51	-8.72	-12.8	-9.86	-15.12
255	-23.19	-7.91	-7.82	-5.7	-1.57	0.63	-0.25	-1.41	-4.84	-6.33	-14.32	-8.72	-15.12
270	-23.3	-7.66	-7.41	-4.37	-2.21	0.87	-1.45	-2.68	-8.35	-11.21	-17.69	-7.99	-15.12
285	-22.52	-8.28	-8.08	-5.7	-4.61	-1.96	-4.21	-7.47	-15.96	-14.55	-17.3	-8.34	-15.12
300	-22.41	-9.86	-7.23	-9.02	-5.32	-1.39	-3.27	-5.23	-10.34	-10.04	-12.77	-8.9	-15.12
315	-23.21	-12.21	-5.44	-5.31	-5.95	-2.88	-3.18	-3.7	-7.7	-10.67	-10.24	-8.55	-15.12
330	-23.73	-14.63	-5.22	-2.58	-2.3	-2.06	-1.94	-0.78	-8.39	-7.42	-7.89	-8.47	-15.12
345	-23.99	-18.41	-7.83	-4.89	-4.64	-3.64	-1.89	-0.15	-7.13	-7.87	-8.51	-8.94	-15.12

Ant2													
Freq	5700												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-13.05	-14.47	-9.9	-2.53	1.31	3.22	0.36	-2.18	-9.55	-11.33	-8.26	-8.7	-16.32
15	-12.56	-14.43	-6.5	-3.36	-0.41	0.8	-0.21	-1.31	-9.69	-9.48	-10.79	-8.93	-16.32
30	-11.74	-14.34	-5.28	-7.25	-5.66	-0.76	1.99	-0.37	-7.74	-11.54	-12.88	-11.59	-16.32
45	-11.25	-14.73	-5.09	-9.97	-4.21	2.93	3.87	1.75	-5.25	-11.81	-17.02	-12.6	-16.32
60	-10.99	-16.32	-4.68	-10.18	-3.12	3.27	2.77	1.6	-5.43	-18.02	-11.83	-12.04	-16.32
75	-11.06	-16.83	-4.24	-7.17	-1.88	2.56	1.65	0.33	-4.16	-21.64	-14.27	-15.87	-16.32
90	-11.11	-16.14	-4.29	-4.16	-1.02	2.58	3.24	0.44	-5.73	-16.56	-19.78	-16.32	-16.32
105	-11.28	-16.23	-5.53	-3.52	-2.16	-2.15	-3.57	-4.57	-9.69	-12.8	-16.54	-11.4	-16.32
120	-11.11	-14.1	-7.5	-5.17	-0.52	1.63	-0.18	-3.46	-11.25	-9.43	-13.34	-8.76	-16.32
135	-11.09	-11.48	-8.13	-5.98	-4.96	-2.38	-3.18	-4.59	-14.97	-18.47	-13.62	-10.26	-16.32
150	-10.89	-9.73	-7.47	-2.51	-0.89	0.5	-2.69	-3.35	-11.37	-9.2	-12.92	-12.95	-16.32
165	-10.84	-8.18	-7.67	-3.26	-1.24	-0.27	-1.82	-0.96	-6.17	-8.96	-14.65	-12.89	-16.32

180	-10.62	-6.96	-7.29	-4.86	-0.53	2.27	2.33	1.11	-1.1	-8.29	-13.43	-13.19	-16.32
195	-11.04	-6.19	-6.14	-6.16	-1.67	2.13	2.85	0.29	-2.37	-7.45	-11.31	-11.96	-16.32
210	-11.47	-5.96	-5.31	-5.53	-4.04	0.78	1.56	0.51	-4.95	-7.07	-10.87	-8.83	-16.32
225	-12.21	-5.79	-3.75	-4.49	-4.5	0.49	0.03	1.07	-3.25	-6.81	-7.48	-7.86	-16.32
240	-12.57	-5.84	-3.45	-2.28	-1.45	1.86	-0.52	0.66	-0.77	-3.65	-6.67	-8.69	-16.32
255	-12.55	-6.53	-3.56	-1.6	-0.2	3.21	-0.11	-0.99	-0.11	-1.15	-7.37	-8.74	-16.32
270	-12.32	-7.51	-4.71	-3.29	-1.72	2.06	-0.68	-1.15	0.86	-1.99	-15.5	-15.31	-16.32
285	-12.24	-8.98	-5.95	-4.71	-3.69	-0.53	-2.59	-2.66	1.41	-1.35	-6.97	-12.18	-16.32
300	-12.15	-10.59	-7.48	-5.54	-4.4	0.8	0.03	-1.26	-2.7	-2.95	-5.53	-7.34	-16.32
315	-12.41	-11.73	-9.28	-11.23	-7.76	-1.17	0.37	-1.26	-7.44	-3.91	-8.34	-6.26	-16.32
330	-12.72	-12.56	-12.38	-7.58	-0.72	3.28	4.47	2	-5.13	-2.24	-9.75	-7.34	-16.32
345	-12.89	-13.84	-14.8	-4.15	0.23	4.12	1.57	-1.26	-8.36	-5.29	-5.62	-8.8	-16.32

Ant3													
Freq	5700												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.21	-4.8	-2.88	1.01	1.89	0.31	-4.19	-0.66	-6.55	-4.21	-0.11	1.44	-11.05
15	-3.15	-4.4	-0.43	1	2.21	-0.58	-2.35	-1.67	-7.06	-6.41	-1.8	-0.99	-11.05
30	-3.19	-3.57	0.77	0.66	1.82	1.23	-2.35	-1.07	-4.06	-4.65	-4.42	-3.47	-11.05
45	-3.45	-1.75	-0.06	0.75	0.22	-0.09	-1.89	-1.24	-1.69	-5.17	-8.19	-5.34	-11.05
60	-3.46	-0.17	0.63	-1.22	-1.13	-4.63	-5.72	-2.06	0.62	-2.69	-15.93	-4.96	-11.05
75	-3.43	0.24	1.44	2.58	-2.25	-7.15	-3.19	-3.42	-4.12	-5.32	-11.39	-4.98	-11.05
90	-3.24	-0.09	0.44	2.12	-1.18	0.15	-2.16	0.83	-0.33	-7.38	-8.99	-5.26	-11.05
105	-3.11	-0.54	-0.95	-2.78	-3.57	-1.83	-1.03	-1.97	-1.87	-8.72	-12.98	-5.04	-11.05
120	-3.24	-0.9	-1.35	-4.44	-2.19	0.83	1.68	-0.71	-1.63	-5.29	-15.75	-5.37	-11.05
135	-3.44	-1.36	-1.51	-3.26	-1.85	0.81	2.88	1.51	-1.5	-8.17	-12.46	-4.57	-11.05
150	-3.6	-1.61	-2.35	-5.51	-4.79	0.06	0.8	1.55	-1.04	-11.29	-6.26	-7.17	-11.05
165	-3.82	-1.56	-3.5	-6.04	-14.72	-0.84	-0.76	-1.86	-3.98	-14.33	-4.63	-11.05	-11.05
180	-3.79	-1.76	-5.49	-2.42	-5.07	-7.46	-2.75	-2.47	-6.8	-13.71	-3.31	-9.21	-11.05
195	-3.65	-2.37	-8.54	-1.65	-1.85	-2.75	-2.6	-5.27	-2.63	-5.14	0.31	-7.95	-11.05
210	-3.54	-3.54	-7.8	-2.52	-1.52	0.68	0.04	-1.43	-1.36	-3.62	3.35	-6.51	-11.05
225	-3.23	-4.2	-6.59	-2.62	-4.17	-1.17	0.15	1	-3.36	2.66	1.93	-3.87	-11.05
240	-3.23	-4.45	-5.05	-5.38	-8.82	-7.3	-3.06	-3.85	-3.15	3.86	2.21	-4.31	-11.05
255	-3.45	-5.26	-3.82	-7.86	-7.35	-1.56	-1.73	-11.92	-0.38	4.15	2.47	-4.11	-11.05
270	-3.76	-6.54	-4.35	-6.46	-4.09	-4.46	-3.89	-7.24	1.15	4.61	1.98	-1.25	-11.05
285	-3.69	-7.86	-5.1	-6.37	-6.27	-1.38	-1.19	-0.54	0.84	3.21	-0.5	1.19	-11.05
300	-3.48	-7.97	-4.74	-4.44	-5.93	0.2	-0.7	-3.39	-8.04	3.17	0.88	2.3	-11.05
315	-3.24	-7.44	-3.82	-1.9	-2.75	2.34	-0.06	0.1	-3.81	2.29	1	3.04	-11.05
330	-3.11	-6.48	-3.06	-1.13	-0.08	2.14	-0.75	2.25	1.9	-3.32	-0.29	3.46	-11.05
345	-3.09	-5.49	-3.1	-0.41	1.73	1.04	-6.19	-0.21	-0.18	-1.93	0.93	3.08	-11.05

Ant4													
Freq	5700												

Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.28	0.04	2.09	-2.46	-5.38	2.37	2.67	2.15	-2.67	-9.61	-10.07	-6.51	-14.27
15	-3.58	0.26	2.88	-2.62	-3.92	3.07	1.57	-0.79	-6.19	-8.43	-7.11	-11.46	-14.27
30	-3.78	0.16	2.61	0.31	-5.82	1.46	-0.81	-5.51	-9.5	-9.07	-4.83	-14.27	-14.27
45	-4	-0.59	1.65	1.21	-10.79	-0.58	-0.65	-1.91	-11.2	-9.34	-3.61	-9.72	-14.27
60	-3.94	-1.98	-0.03	0.98	-5.09	-5.43	-3.46	-4.46	-4.51	-7.48	-6.24	-8.59	-14.27
75	-3.84	-3.46	-1.37	-0.02	-8.41	-7.38	-6.05	-6.66	-5.18	-3.55	-4.7	-7.08	-14.27
90	-3.73	-4.78	-1.83	0.08	-4.35	-6.63	-11.31	-8.58	-3.65	-2.28	-4.33	-8.41	-14.27
105	-3.78	-5.71	-2.42	-1.91	-5.02	-3.9	-8.9	-3.91	-2.03	-1.72	-2.84	-8.7	-14.27
120	-3.8	-6.27	-3.2	-2.92	-3.44	-2.83	-4.89	-2.26	-0.93	-0.16	-3.36	-8.43	-14.27
135	-3.75	-6.44	-3.97	-2.42	-1.31	1.66	-0.75	-7.13	-1.78	3.05	-3.17	-6.05	-14.27
150	-3.9	-6.97	-4.5	-2.98	-1.98	2.9	0.62	-1.46	-3.85	2.94	-0.99	-5.17	-14.27
165	-3.93	-7.64	-3.97	-1.81	-3.15	1.43	1.87	1.09	-3.48	0.07	-0.83	-5.05	-14.27
180	-3.83	-7.96	-3.61	-0.06	-0.64	0.95	1.25	0.71	-1.23	-3.9	-0.76	-3.43	-14.27
195	-3.71	-8.11	-3.75	0.29	0.02	1.33	0.52	-1.97	-1.29	-4.63	-0.27	-2.4	-14.27
210	-3.44	-7.76	-4.18	0.57	0.02	1.31	-1.84	-2.82	-0.33	-4.36	-1.2	-3.5	-14.27
225	-3.2	-5.82	-4.68	-0.07	-0.87	0.22	-4.38	-3.33	-0.72	-2.5	-3.32	-5.07	-14.27
240	-3.24	-3.57	-2.9	-1.21	-2.79	-1.15	-4.58	-5.89	-1.66	-2.8	-7.91	-6.29	-14.27
255	-3.38	-2.07	-1.24	-2.14	-4.34	-1.72	-6.3	-8.48	-4.31	-2.11	-8.84	-6.77	-14.27
270	-3.37	-1.65	-1.14	-1.49	-2.2	-3.73	-9.45	-9.8	-8.47	-4.48	-8.76	-6.32	-14.27
285	-3.51	-1.7	-2.49	-0.74	-1.47	-4.19	-9.24	-10.97	-10.67	-4.62	-5.56	-7.15	-14.27
300	-3.42	-1.56	-2.99	-0.47	-3.75	-7.43	-6.53	-4.45	-10.09	-5.97	-7.86	-7.59	-14.27
315	-3.42	-1.34	-1.26	0.24	-7.32	-3.23	-3.04	-4.21	-6.2	-4.23	-15.97	-6.47	-14.27
330	-3.27	-0.79	0.62	0.5	-8.69	0.41	1.23	-3.05	-9.89	-7.43	-15.27	-5.94	-14.27
345	-3.3	-0.28	1.69	-1.2	-6.89	2.43	4.75	0.31	-2	-9.97	-18.27	-5.81	-14.27

5700MHz Composite Gain of Ant1, Ant2 &Ant3													
Freq	5700												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.50	-8.90	-6.50	-1.80	0.66	1.13	0.02	0.06	-4.43	-5.66	-3.73	-2.54	-13.55
15	-7.38	-8.37	-4.17	-1.60	0.56	0.15	0.01	-0.40	-3.09	-7.71	-4.40	-4.18	-13.55
30	-7.34	-7.56	-2.94	-2.13	-1.07	0.20	0.16	-0.49	-3.98	-6.73	-4.76	-5.88	-13.55
45	-7.52	-5.76	-3.49	-2.93	-2.23	1.07	1.44	-0.24	-3.89	-6.14	-7.06	-7.43	-13.55
60	-7.48	-4.30	-2.75	-5.44	-3.24	0.35	0.69	-0.73	-2.30	-5.10	-10.92	-7.31	-13.55
75	-7.47	-3.85	-2.00	-1.53	-3.26	0.21	1.04	-0.54	-2.91	-5.78	-10.16	-7.34	-13.55
90	-7.29	-4.09	-2.73	-1.31	-2.29	1.29	1.61	0.78	-1.68	-6.40	-8.88	-7.07	-13.55
105	-7.18	-4.53	-4.00	-3.89	-2.95	-0.45	-1.37	-2.11	-3.78	-9.56	-12.75	-6.61	-13.55
120	-7.29	-4.89	-4.24	-3.68	-0.75	1.53	1.33	-0.64	-4.42	-8.35	-11.22	-6.59	-13.55
135	-7.47	-5.21	-3.65	-2.55	-1.14	-0.58	-0.11	-2.01	-5.76	-8.50	-8.24	-6.17	-13.55
150	-7.57	-5.35	-3.70	-3.70	-1.93	-0.79	1.37	0.08	-3.14	-4.32	-7.53	-8.70	-13.55
165	-7.75	-5.29	-5.27	-5.47	-2.68	0.27	1.59	-0.83	-4.69	-5.89	-6.76	-10.90	-13.55
180	-7.69	-5.33	-7.35	-3.21	-1.46	0.68	1.11	-0.29	-3.87	-7.82	-6.08	-11.22	-13.55
195	-7.63	-5.55	-8.82	-3.39	-2.55	0.11	0.70	-2.12	-4.02	-6.83	-3.91	-10.71	-13.55

210	-7.60	-6.12	-7.82	-5.33	-3.54	0.71	1.20	-0.76	-3.59	-6.40	-1.16	-8.76	-13.55
225	-7.43	-6.18	-6.14	-5.17	-4.37	0.34	1.03	0.52	-4.14	-1.51	-2.10	-6.35	-13.55
240	-7.48	-6.04	-5.22	-5.00	-3.88	-0.44	-0.69	-1.49	-2.88	0.00	-1.91	-6.92	-13.55
255	-7.68	-6.43	-4.68	-4.26	-2.13	1.19	-0.64	-2.78	-1.31	0.79	-1.79	-6.60	-13.55
270	-7.92	-7.21	-5.29	-4.52	-2.56	0.26	-1.81	-3.02	-0.51	1.52	-2.67	-5.05	-13.55
285	-7.84	-8.35	-6.21	-5.54	-4.73	-1.25	-2.49	-2.72	-0.58	-0.20	-4.31	-2.95	-13.55
300	-7.65	-9.33	-6.30	-5.94	-5.17	-0.04	-1.10	-2.99	-5.81	-0.49	-2.85	-1.74	-13.55
315	-7.48	-9.89	-5.64	-4.70	-4.98	-0.01	-0.70	-1.35	-5.93	-1.37	-3.01	-0.99	-13.55
330	-7.40	-9.79	-5.46	-3.02	-0.94	1.65	1.54	1.36	-1.76	-3.82	-3.97	-0.71	-13.55
345	-7.40	-9.48	-6.40	-2.68	-0.17	1.55	-1.11	-0.51	-3.64	-4.36	-2.59	-1.17	-13.55

5700MHz Composite Gain of Ant1, Ant2 &Ant4													
Freq	5700												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.57	-4.50	-2.28	-3.68	-1.28	1.80	1.74	1.05	-3.31	-7.41	-8.82	-7.78	-15.16
15	-7.75	-4.22	-1.38	-3.43	-1.43	1.52	1.09	-0.16	-2.96	-8.50	-6.83	-8.54	-15.16
30	-7.85	-4.26	-1.44	-2.35	-4.42	0.30	0.49	-1.39	-5.13	-8.56	-4.90	-9.18	-15.16
45	-7.98	-4.77	-2.17	-2.57	-5.60	0.95	1.66	-0.40	-6.82	-7.43	-5.36	-9.25	-15.16
60	-7.88	-5.81	-3.22	-3.45	-4.94	0.27	0.91	-1.21	-4.91	-7.23	-8.19	-9.01	-15.16
75	-7.81	-6.77	-3.88	-3.65	-4.93	0.19	0.77	-0.95	-3.15	-5.04	-7.33	-8.42	-15.16
90	-7.70	-7.59	-4.17	-2.71	-3.39	0.30	1.04	-0.76	-2.90	-4.37	-6.77	-8.39	-15.16
105	-7.74	-8.30	-4.94	-3.49	-3.33	-0.86	-2.92	-2.69	-3.87	-5.37	-6.79	-7.99	-15.16
120	-7.76	-8.79	-5.35	-3.20	-1.01	0.77	-0.11	-1.09	-3.96	-4.33	-6.57	-7.69	-15.16
135	-7.73	-8.76	-4.82	-2.30	-0.98	-0.17	-2.16	-6.54	-6.01	-1.17	-5.35	-6.82	-15.16
150	-7.82	-8.91	-4.55	-3.00	-1.30	0.59	1.32	-1.07	-4.43	0.01	-4.40	-7.64	-15.16
165	-7.84	-9.19	-5.50	-3.76	-1.61	0.98	2.24	0.16	-4.48	-2.33	-4.30	-7.98	-15.16
180	-7.72	-9.05	-6.29	-2.11	-0.47	1.83	1.92	0.56	-2.28	-5.42	-4.31	-7.29	-15.16
195	-7.68	-8.63	-6.48	-2.31	-1.72	1.15	1.36	-1.39	-3.36	-6.57	-4.42	-6.51	-15.16
210	-7.51	-8.17	-6.25	-3.13	-2.66	0.93	0.79	-1.11	-2.98	-6.85	-5.26	-6.83	-15.16
225	-7.40	-6.96	-5.47	-3.47	-2.92	0.71	0.19	-0.65	-2.89	-5.54	-5.99	-7.02	-15.16
240	-7.48	-5.60	-4.35	-3.26	-2.67	0.40	-0.94	-1.81	-2.36	-4.39	-8.44	-8.02	-15.16
255	-7.61	-4.75	-3.44	-2.81	-1.72	1.17	-1.44	-2.57	-2.53	-2.69	-9.32	-7.97	-15.16
270	-7.58	-4.63	-3.67	-2.88	-2.04	0.35	-2.51	-3.27	-2.99	-4.50	-12.26	-8.52	-15.16
285	-7.69	-4.99	-4.89	-3.16	-3.05	-1.98	-4.56	-5.73	-3.03	-4.31	-7.80	-8.75	-15.16
300	-7.60	-5.28	-5.37	-3.63	-4.44	-1.53	-2.47	-3.29	-6.15	-5.43	-7.81	-7.89	-15.16
315	-7.63	-5.42	-4.16	-3.23	-6.94	-2.33	-1.62	-2.86	-7.06	-5.38	-10.51	-6.98	-15.16
330	-7.54	-5.12	-2.98	-2.10	-2.81	1.08	2.01	-0.12	-7.33	-4.95	-10.03	-7.13	-15.16
345	-7.59	-4.80	-2.53	-3.11	-2.72	2.01	2.28	-0.32	-4.90	-7.29	-8.44	-7.60	-15.16

Ant1													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180

0	-18.85	-15.81	-14.12	-7.86	-1.06	-0.32	2.13	2.06	-0.9	-4.46	-8.68	-7.95	-14.56
15	-19.95	-16.01	-16.32	-3.75	-0.96	-0.34	1.42	0.82	0.92	-8.92	-5	-6.17	-14.56
30	-21.8	-14.82	-13.76	-2.17	-2.85	-0.69	-0.24	-0.27	-1.48	-8.38	-2.71	-5.75	-14.56
45	-20.3	-12.5	-12.06	-5.1	-4.32	-0.67	1.88	-1.66	-4.71	-5.78	-4.13	-6.64	-14.56
60	-19.75	-10.15	-10.49	-15.09	-7.41	-1.32	2.21	-3.19	-4.26	-4.6	-8.35	-7.18	-14.56
75	-18.99	-9.08	-9.9	-12.85	-7.38	0.68	2.65	-0.09	-0.69	-2.94	-6.92	-6.45	-14.56
90	-16.77	-8.56	-9.74	-7.71	-7.07	2.1	2.65	1.44	0.14	-3.14	-5.44	-5.41	-14.56
105	-17.32	-8.72	-10.8	-7.35	-4.06	1.17	-0.51	-0.98	-2.43	-8.68	-10.08	-4.92	-14.56
120	-18.66	-9.45	-7.95	-2.79	-0.1	3.31	2.44	1.44	-3.91	-14.14	-7.89	-5.25	-14.56
135	-18.65	-10.92	-3.83	-0.35	1.27	-0.15	-2.96	-8.76	-12.82	-7.24	-4.19	-4.53	-14.56
150	-19.57	-12.65	-2.31	-2.8	-0.28	-3.63	3.84	1.17	-2.07	-0.84	-6.2	-6.84	-14.56
165	-19.31	-15.62	-4.59	-8.68	-1.15	1.18	4.43	0.46	-4.61	-2.34	-6.34	-8.82	-14.56
180	-18.45	-19.64	-10.48	-3.19	-0.19	3.57	2.68	0.19	-5.07	-5.39	-6.95	-11.92	-14.56
195	-18.5	-14.72	-22.76	-3.61	-4.07	-0.49	0.81	-2.87	-12.49	-8.7	-11.13	-14.56	-14.56
210	-18.71	-11.35	-11.59	-15.39	-6.47	-0.1	2.85	-1.65	-5.77	-13.59	-13.77	-13.52	-14.56
225	-19.07	-8.99	-7.68	-17.78	-4.6	1.14	2.15	-0.7	-6.25	-13.02	-9.85	-8.64	-14.56
240	-20.36	-7.38	-6.98	-12.15	-3.41	0.18	0.07	-2.63	-6.89	-8.9	-13.25	-9.32	-14.56
255	-21.29	-6.57	-6.62	-6.3	-0.79	1.42	-0.42	-1.44	-5.29	-6.64	-15.56	-8.39	-14.56
270	-22.02	-6.68	-6.5	-4.78	-2.45	1.04	-0.67	-3	-8.98	-11.17	-17.86	-7.61	-14.56
285	-22.44	-7.55	-6.48	-6.19	-5.39	-1.99	-3.83	-6.66	-15.57	-13.5	-16.25	-7.66	-14.56
300	-21.89	-8.73	-5.08	-7.72	-4.93	-1.24	-3.42	-4.89	-9.95	-9.35	-12.21	-8.13	-14.56
315	-20.92	-10	-3.89	-3.63	-5.36	-2.5	-2.38	-2.86	-6.57	-10.68	-9.46	-7.87	-14.56
330	-20.57	-12.28	-4.24	-1.97	-3.08	-2.63	-1.18	-0.14	-9.47	-7.8	-7.5	-7.55	-14.56
345	-20.8	-15.02	-8.08	-5.35	-4.6	-2.58	-2.34	0.28	-6.52	-8.16	-8.5	-8.43	-14.56

Ant2													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.76	-12.67	-13.09	-3.65	1.08	4.21	2.01	-1.71	-9.03	-12.89	-8.12	-8.44	-17.43
15	-12.92	-13.73	-8	-4.37	-0.03	1.38	0.24	-0.73	-9.16	-9.1	-10.85	-8.76	-17.43
30	-12.84	-14.38	-6.01	-7.76	-4.8	-0.98	0.99	-0.43	-9.42	-11.35	-12.64	-11.47	-17.43
45	-12.33	-16.34	-4.89	-9.22	-3.64	2.76	3.15	1.61	-6.38	-11.6	-16.55	-12.98	-17.43
60	-11.83	-19.05	-4.75	-9.24	-3.22	3.04	2.67	1.38	-5.49	-16.3	-13.1	-13.08	-17.43
75	-11.56	-18.5	-4.2	-6.48	-2.14	2.77	2.37	0.46	-3.93	-24.4	-14.56	-17.43	-17.43
90	-11.45	-18.02	-4.41	-4.14	-1.44	2.63	2.14	0.84	-5.62	-19.56	-19.03	-15.57	-17.43
105	-11.77	-17.06	-6.07	-3.68	-1.98	-2.32	-4.24	-5.89	-10.03	-12.64	-16.78	-11.22	-17.43
120	-12.24	-15.13	-8.85	-6.11	-1.14	0.83	0.6	-2.93	-10.85	-9.51	-13.44	-8.62	-17.43
135	-12.23	-13.28	-7.99	-5.27	-4.27	-3.62	-3.68	-6.03	-15.76	-18.07	-13.95	-9.86	-17.43
150	-11.8	-10.83	-6.95	-2.35	-0.51	0.51	-1.7	-3.28	-11.91	-8.41	-12.13	-12.34	-17.43
165	-11.37	-8.94	-7.31	-4.28	-1.32	1.04	0.15	-0.72	-5.07	-9.68	-14.43	-11.83	-17.43
180	-11.23	-7.61	-7.27	-5.28	-0.71	2.23	2.41	1.23	-0.73	-9.02	-13.3	-11.92	-17.43
195	-11.49	-6.75	-6.41	-5.41	-2.48	1.44	2.12	-0.12	-3.05	-8	-12.98	-11.08	-17.43
210	-11.9	-6.43	-5.75	-5.5	-4.6	1.02	1.99	0.73	-5.57	-7.36	-11.85	-8.19	-17.43

225	-12.42	-6.27	-3.75	-4.91	-5.39	0.81	1.04	1.25	-3.39	-7.05	-7.72	-6.82	-17.43
240	-12.59	-6.18	-3.07	-2.25	-2.46	1.52	-0.47	0.26	-0.78	-4.04	-6.93	-7.37	-17.43
255	-12.6	-6.38	-3.23	-1.02	-0.32	2.6	-0.71	-1.47	0.02	-1.38	-7.09	-7.16	-17.43
270	-12.46	-7.22	-4.21	-2.33	-1.76	2.3	0.27	-1.4	1.23	-1.33	-14.57	-12.61	-17.43
285	-12.56	-8.21	-5.34	-4.69	-3.77	-0.71	-2.88	-3.09	1.04	-1.43	-8.03	-14.2	-17.43
300	-12.45	-9.25	-6.23	-5.09	-4.11	0.75	0.58	-1.42	-2.97	-3.2	-5.83	-7.72	-17.43
315	-12.53	-10.18	-7.95	-10.39	-9.96	-1.79	-0.24	-2.07	-8.4	-3.96	-8.23	-6.23	-17.43
330	-12.62	-10.77	-10.12	-9.31	-1.06	4.34	4.45	2.88	-4.81	-2.54	-9.77	-6.84	-17.43
345	-12.85	-11.39	-14.61	-5.87	-0.16	3.81	2.82	-0.97	-7.68	-5.63	-5.49	-7.82	-17.43

Ant3													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.46	-5.63	-1.95	1.36	1.82	0.34	-3.55	-1.43	-6.74	-5.15	-0.22	1.74	-9.64
15	-3.43	-5.12	-0.16	0.73	2.07	-0.49	-2.24	-1.83	-7.83	-6.07	-1.69	-0.8	-9.64
30	-3.61	-3.5	0.69	0.93	1.75	0.9	-2.26	-1.19	-4.3	-4.63	-3.79	-3.65	-9.64
45	-3.9	-1.57	0.34	1.24	-0.09	0.35	-2.44	-0.97	-1.74	-4.63	-7.88	-5.21	-9.64
60	-4.17	-0.28	0.88	-0.8	-0.76	-3.27	-5.88	-1.17	1.26	-2.57	-14.8	-5.16	-9.64
75	-4.15	0.14	1.14	2.47	-2.29	-6.62	-4.63	-5.19	-4.58	-4.36	-12.67	-5.03	-9.64
90	-3.97	-0.26	0.54	1.86	-0.81	-0.22	-2.6	0.67	0.14	-7.17	-9.11	-5.57	-9.64
105	-3.82	-0.92	0.31	-1.78	-2.7	-1.21	-1.63	-2.26	-1.9	-7.63	-13.19	-5.38	-9.64
120	-3.78	-1.59	0.03	-2.72	-1.7	0.77	1.83	-0.92	-1.51	-5.71	-15.93	-5.24	-9.64
135	-3.95	-1.92	-0.94	-2.21	-1.92	0.93	3.21	1.67	-1.32	-8.22	-12.69	-4.66	-9.64
150	-4.38	-2.38	-2.7	-4.35	-5.56	-0.33	1.51	1.84	-0.94	-10.8	-5.99	-6.67	-9.64
165	-4.78	-2.49	-4.35	-5.68	-12.68	-1.14	-0.67	-2.22	-4.42	-13.48	-4.2	-9.64	-9.64
180	-4.99	-2.38	-5.24	-2.38	-4.03	-8.64	-3.11	-2.72	-6.39	-12.93	-3.26	-8.65	-9.64
195	-4.84	-2.96	-7.45	-1.67	-1.78	-2.57	-2.7	-5.3	-2.35	-4.52	0.25	-7.85	-9.64
210	-4.67	-4.33	-7.07	-2.29	-2.29	0.21	-0.3	-1.94	-0.93	-3.65	3.34	-6.55	-9.64
225	-4.59	-5.18	-6.17	-3.7	-5.92	-2.5	-0.56	2.05	-2.74	2.65	1.8	-4.27	-9.64
240	-4.42	-5.49	-5.91	-5.05	-10.21	-6.72	-2.85	-2.76	-3.37	4.12	2.29	-4.8	-9.64
255	-4.52	-6.45	-5.11	-8.48	-6.98	-1.63	-1.77	-9.61	-0.89	4.52	2.59	-4.48	-9.64
270	-4.36	-8.39	-6.04	-6.82	-3.64	-3.59	-3.74	-5.64	0.97	5.46	1.85	-1.2	-9.64
285	-4.35	-8.84	-6.94	-6.58	-5.73	-1.53	-0.74	-0.06	1.07	3.03	-0.87	1.42	-9.64
300	-4.46	-8.07	-5.06	-3.49	-5.32	0.03	0.04	-3.61	-6.55	2.87	0.6	2.62	-9.64
315	-4.54	-7.28	-3.49	-0.97	-3.22	1.88	-0.2	0.17	-3.25	2.03	0.56	3.35	-9.64
330	-4.22	-6.38	-2.76	-0.72	-0.63	1.64	-1.48	2.11	1.81	-3.4	-0.94	3.74	-9.64
345	-3.92	-5.81	-2.54	0.02	1.71	0.96	-6.43	-0.91	0.21	-3.29	0.42	3.32	-9.64

Ant4													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.13	0.44	2.85	-2.17	-5	1.65	1.99	2.24	-2.41	-11.6	-11.31	-5.92	-12.52
15	-4.2	0.64	3.77	-1.77	-4.26	2.6	1.67	-0.81	-6.16	-9.83	-6.85	-10.95	-12.52

30	-4.42	0.22	3.52	0.89	-7.04	1.33	-0.46	-4.41	-8.53	-9.3	-4.44	-12.52	-12.52
45	-4.54	-1.02	2.4	1.67	-9.57	-0.64	-0.16	-1.39	-9	-7.59	-3.36	-8.92	-12.52
60	-4.74	-2.61	0.63	0.55	-4.28	-6.6	-4.1	-4.4	-3.71	-7.13	-6.55	-7.99	-12.52
75	-4.57	-3.94	-0.06	0.75	-8.23	-8.56	-5.71	-6.7	-4.3	-3.74	-4.52	-6.31	-12.52
90	-4.41	-4.72	-0.75	1.04	-5.11	-8.03	-11.53	-7.62	-3.27	-2.58	-3.95	-7.46	-12.52
105	-4.16	-5.23	-1.65	-0.99	-4.64	-4.52	-8.06	-3.75	-1.74	-2.18	-2.97	-7.65	-12.52
120	-4.12	-5.41	-2.89	-1.86	-3.64	-2.78	-5.73	-2.53	-0.91	-0.53	-3.47	-7.79	-12.52
135	-4.33	-5.7	-3.61	-1.65	-1.96	1.61	-1	-8.07	-2.12	2.81	-3.28	-5.88	-12.52
150	-4.67	-6.14	-3.61	-2.23	-2.37	2.12	1.65	-1.01	-3.03	2.44	-1.51	-5.01	-12.52
165	-4.73	-6.67	-3.86	-2.02	-2.57	-0.94	0.42	0.43	-1.61	-0.95	-1.56	-5.08	-12.52
180	-4.65	-7.36	-3.66	-0.48	0.25	-0.45	0.92	-0.01	-0.45	-4.12	-1.43	-3.42	-12.52
195	-4.3	-8.19	-4.12	-0.12	0.31	1.79	1.87	-1.23	-1.67	-3.85	-0.99	-2.17	-12.52
210	-4.02	-8.69	-4.76	0.09	-0.52	1.61	-1.47	-2.38	-0.67	-3.41	-1.8	-2.74	-12.52
225	-3.94	-7.51	-6.23	-1.05	-1.03	0.73	-4.08	-3.46	-0.57	-2.02	-3.05	-4.53	-12.52
240	-4.07	-5.03	-4.06	-2.28	-2.82	-1.17	-5.19	-5.18	-1.97	-2.79	-6.25	-6.01	-12.52
255	-4.21	-2.99	-1.95	-2.46	-4.89	-1.85	-6.6	-8.19	-3.89	-1.72	-8.18	-6.55	-12.52
270	-4.36	-2.02	-1.04	-2.06	-2.81	-5.24	-9.95	-8.69	-6.54	-3.74	-8.97	-6	-12.52
285	-4.34	-1.95	-2.14	-1.47	-1.42	-4.09	-9.18	-9.71	-10.55	-4.56	-5.13	-6.61	-12.52
300	-4.31	-1.92	-2.81	-0.93	-3.44	-7.9	-5.66	-4.27	-9.58	-5.97	-6.75	-6.97	-12.52
315	-4.13	-1.56	-1.42	0.23	-6.5	-4.07	-2.88	-3.73	-5.83	-3.9	-13.84	-6.14	-12.52
330	-4.13	-0.98	0.35	0.69	-7.63	0.34	2.22	-2.3	-10.24	-7.59	-14.92	-5.9	-12.52
345	-4.07	-0.25	1.88	-0.96	-5.79	3.04	4.48	0.41	-1.56	-9.23	-17.98	-5.43	-12.52

5750MHz Composite Gain of Ant1, Ant2 &Ant3													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.64	-9.28	-6.16	-1.84	0.78	1.90	0.87	0.00	-4.17	-6.23	-3.84	-2.23	-12.68
15	-7.65	-9.03	-4.18	-1.83	0.55	0.27	0.06	-0.44	-2.95	-7.80	-4.45	-3.96	-12.68
30	-7.83	-7.64	-3.11	-1.73	-1.07	-0.18	-0.30	-0.61	-3.99	-7.27	-4.74	-5.91	-12.68
45	-8.00	-5.87	-3.10	-2.32	-2.26	1.06	1.44	-0.10	-3.84	-6.46	-7.20	-7.22	-12.68
60	-8.15	-4.57	-2.60	-4.85	-3.02	0.31	0.99	-0.59	-1.77	-5.12	-11.19	-7.40	-12.68
75	-8.08	-4.09	-2.26	-1.67	-3.36	0.39	1.15	-0.98	-2.71	-5.34	-10.11	-7.30	-12.68
90	-7.84	-4.37	-2.73	-1.57	-2.36	1.67	1.28	1.00	-1.08	-6.39	-8.53	-7.04	-12.68
105	-7.78	-4.93	-3.30	-3.71	-2.83	-0.54	-1.86	-2.60	-3.58	-9.18	-12.54	-6.40	-12.68
120	-7.85	-5.54	-3.64	-3.61	-0.93	1.81	1.69	-0.44	-4.00	-8.55	-11.09	-6.11	-12.68
135	-7.99	-5.90	-3.38	-2.17	-1.05	-0.56	0.04	-2.10	-5.65	-9.27	-8.00	-5.75	-12.68
150	-8.32	-6.23	-3.54	-3.09	-1.54	-0.82	1.77	0.42	-3.04	-4.55	-7.34	-7.95	-12.68
165	-8.57	-6.21	-5.23	-5.85	-2.84	0.48	1.92	-0.69	-4.69	-6.10	-6.65	-9.92	-12.68
180	-8.68	-5.95	-7.17	-3.45	-1.34	1.34	1.34	-0.14	-3.35	-8.09	-6.19	-10.54	-12.68
195	-8.61	-6.02	-8.60	-3.30	-2.67	-0.24	0.51	-2.26	-4.23	-6.67	-4.03	-10.35	-12.68
210	-8.55	-6.51	-7.51	-5.22	-4.12	0.40	1.70	-0.78	-3.47	-6.58	-1.22	-8.56	-12.68
225	-8.57	-6.54	-5.56	-5.93	-5.27	0.10	1.02	1.01	-3.88	-1.57	-2.25	-6.20	-12.68
240	-8.48	-6.28	-4.99	-4.91	-4.28	-0.50	-0.91	-1.47	-3.01	0.15	-1.88	-6.77	-12.68

255	-8.58	-6.47	-4.77	-4.10	-1.84	1.13	-0.93	-2.90	-1.52	1.00	-1.68	-6.36	-12.68
270	-8.44	-7.37	-5.47	-4.26	-2.55	0.55	-1.07	-3.01	-0.45	1.59	-2.78	-4.83	-12.68
285	-8.45	-8.17	-6.20	-5.74	-4.88	-1.38	-2.29	-2.48	-0.66	-0.34	-4.77	-2.74	-12.68
300	-8.52	-8.66	-5.42	-5.10	-4.76	-0.08	-0.61	-3.07	-5.60	-0.74	-3.10	-1.44	-12.68
315	-8.59	-8.94	-4.70	-3.55	-5.38	-0.35	-0.83	-1.39	-5.54	-1.58	-3.31	-0.68	-12.68
330	-8.32	-9.05	-4.76	-2.73	-1.47	1.97	1.52	1.79	-1.85	-4.05	-4.40	-0.38	-12.68
345	-8.09	-9.13	-6.04	-2.85	-0.31	1.47	-0.42	-0.49	-3.18	-5.25	-2.94	-0.87	-12.68

5750MHz Composite Gain of Ant1, Ant2 &Ant4													
Freq	5750												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-8.22	-4.03	-1.73	-3.97	-1.00	2.24	2.04	1.20	-2.98	-7.97	-9.16	-7.29	-14.40
15	-8.32	-3.89	-0.68	-3.15	-1.41	1.38	1.15	-0.17	-2.73	-9.27	-6.95	-8.19	-14.40
30	-8.54	-4.27	-0.72	-1.76	-4.57	0.01	0.14	-1.33	-4.92	-9.51	-4.99	-8.82	-14.40
45	-8.55	-5.38	-1.50	-1.99	-5.17	0.80	1.83	-0.21	-6.36	-7.72	-5.38	-8.80	-14.40
60	-8.62	-6.59	-2.78	-3.68	-4.64	-0.04	1.14	-1.31	-4.42	-7.26	-8.58	-8.76	-14.40
75	-8.42	-7.44	-3.10	-3.11	-5.02	0.28	1.07	-1.14	-2.65	-5.07	-7.05	-7.97	-14.40
90	-8.19	-7.85	-3.60	-2.16	-3.90	0.81	0.73	-0.33	-2.27	-4.57	-6.31	-7.83	-14.40
105	-8.06	-8.20	-4.71	-3.28	-3.40	-1.25	-3.24	-3.08	-3.50	-5.77	-6.82	-7.22	-14.40
120	-8.14	-8.42	-5.71	-3.24	-1.39	1.12	0.24	-0.86	-3.63	-4.62	-6.59	-6.97	-14.40
135	-8.31	-8.78	-4.74	-1.98	-1.06	-0.22	-2.39	-7.46	-6.37	-1.52	-5.27	-6.24	-14.40
150	-8.56	-8.97	-3.89	-2.45	-0.96	0.26	1.82	-0.67	-4.04	-0.42	-4.74	-7.13	-14.40
165	-8.53	-9.09	-5.02	-4.21	-1.64	0.53	2.14	0.09	-3.48	-3.03	-4.92	-7.72	-14.40
180	-8.41	-9.11	-6.27	-2.54	-0.20	2.08	2.07	0.50	-1.64	-5.73	-4.91	-7.11	-14.40
195	-8.18	-8.79	-6.84	-2.48	-1.69	1.02	1.64	-1.26	-3.86	-6.29	-5.12	-6.20	-14.40
210	-8.01	-8.38	-6.51	-3.53	-3.13	0.90	1.48	-0.89	-3.31	-6.42	-5.92	-6.15	-14.40
225	-8.02	-7.45	-5.58	-4.26	-3.23	0.90	0.42	-0.56	-2.81	-5.35	-5.92	-6.34	-14.40
240	-8.18	-6.09	-4.41	-3.81	-2.88	0.31	-1.31	-1.96	-2.53	-4.56	-7.89	-7.36	-14.40
255	-8.32	-4.98	-3.53	-2.75	-1.58	1.09	-1.81	-2.78	-2.44	-2.68	-9.03	-7.30	-14.40
270	-8.44	-4.63	-3.34	-2.90	-2.32	0.37	-1.71	-3.43	-2.53	-3.85	-12.27	-7.96	-14.40
285	-8.44	-4.93	-4.25	-3.66	-3.22	-2.05	-4.56	-5.67	-3.35	-4.30	-7.89	-8.46	-14.40
300	-8.40	-5.25	-4.47	-3.68	-4.12	-1.54	-2.05	-3.25	-6.22	-5.49	-7.51	-7.58	-14.40
315	-8.24	-5.26	-3.67	-2.79	-6.88	-2.69	-1.68	-2.83	-6.81	-5.25	-9.93	-6.68	-14.40
330	-8.24	-5.04	-2.85	-1.93	-3.16	1.61	2.40	0.67	-7.46	-5.24	-9.78	-6.71	-14.40
345	-8.22	-4.57	-2.39	-3.46	-2.80	2.19	2.47	-0.05	-4.39	-7.40	-8.34	-7.02	-14.40

7.4 6G DG_NSS4 Test Data

Ant5													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-15.03	-6.95	-8.01	-5.36	-8.65	-13.6	-14.31	-8.55	-9.96	-9.6	-15.59	-14.88	-14.88

15	-15.7	-7.56	-9.31	-8.58	-11.62	-14.79	-19.2	-8.98	-12.22	-7	-13.35	-10.45	-14.88
30	-16.48	-8.76	-10.24	-9.06	-12.15	-16.26	-16.41	-23.36	-9.01	-5.74	-10.92	-8.28	-14.88
45	-16.84	-10.61	-12.67	-11.14	-14.47	-17.46	-12.01	-13.13	-10.74	-11.6	-10.96	-8.16	-14.88
60	-16.76	-13.49	-13.28	-11.91	-20.29	-12.96	-12.03	-11.82	-23.24	-11.84	-12.93	-7.57	-14.88
75	-16.54	-17.63	-12.68	-8.56	-24.13	-13.05	-17.34	-12.58	-14.43	-10.8	-11.65	-9.24	-14.88
90	-16.55	-19.41	-12.14	-11.55	-26.98	-8.76	-10.43	-7.86	-16.15	-14.46	-10.16	-8.64	-14.88
105	-16.1	-20.39	-8.22	-10.65	-18.61	-6.61	-8.59	-6.69	-10.1	-8.23	-10.19	-6.73	-14.88
120	-15.36	-18.6	-7.59	-11.24	-17.46	-5.01	-5.29	-2.59	-7.08	-7.86	-12.8	-6.76	-14.88
135	-14.8	-15.73	-9.16	-10.34	-12.06	-4.48	-5.08	-2.47	-4.7	-6.58	-11.96	-6.06	-14.88
150	-15.25	-15.6	-7.93	-8.25	-6.31	-2.73	-1.48	0.34	-1.79	-6.94	-10.21	-6.53	-14.88
165	-15.69	-16.01	-6.6	-5.78	-4.06	0.07	2.71	2.09	0.93	-2.73	-6.66	-6.37	-14.88
180	-15.73	-15.73	-6.07	-3.02	-3.16	2.85	4.04	3.2	0.61	-2.29	-4.59	-5.26	-14.88
195	-15.96	-14.49	-3.76	-1	-0.39	5.55	5.36	2.22	1.36	-2.92	-3.18	-4.69	-14.88
210	-15.43	-13.53	-3.49	0.65	3.04	6.55	7.84	5.2	3.84	-1.44	-3.68	-5.51	-14.88
225	-14.75	-14.39	-2.13	2.2	4.27	6.13	5.26	4.81	4.67	2.16	-3.32	-4.55	-14.88
240	-14.81	-15.37	-2.32	3.49	3.93	5.06	4.12	2.96	3.5	3.34	-2.94	-3.19	-14.88
255	-14.84	-13.87	-2.31	3.5	3.48	3.5	1.08	2.62	-0.45	2.52	-3.65	-2.82	-14.88
270	-14.43	-10.63	-2.52	2.07	0.87	0.6	1.13	2.04	-3.23	-1.67	-3.82	-1.44	-14.88
285	-15.57	-7.89	-1.38	0.44	-3.85	-2.53	-2.19	-0.43	-3.25	-4.7	-1.15	-1.59	-14.88
300	-16.57	-5.91	-0.61	-0.05	-2.31	-1.56	-2.13	-1.85	-6.68	-7.78	-7.34	-3.31	-14.88
315	-16.76	-5.21	-1.4	-1.85	-1.47	-5.86	-1.04	-7.52	-17.39	-10.42	-11.63	-6.69	-14.88
330	-16.15	-5.56	-4.22	-4.64	-5.98	-8.07	-2.39	-3.17	-13.7	-19.98	-15.3	-9.98	-14.88
345	-15.52	-6.33	-5.81	-4.84	-8.55	-11.29	-6.15	-6.76	-7.44	-11.24	-14.94	-12.95	-14.88

Ant6													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.63	-3.39	-3.44	-0.12	0.27	0.55	-0.36	-1.89	-0.13	-0.4	-2.35	-5.41	-18.36
15	-4.66	-3.93	-4.75	-2.76	-2.67	-1.33	-2.9	-5.25	-3	-4.04	-3.73	-3.97	-18.36
30	-4.51	-5.03	-6.77	-2.15	-2.76	-3.95	-5.68	-3.73	-5.02	-5.42	-6.69	-6.34	-18.36
45	-4.42	-6.71	-5.72	-6.97	-5.29	-3.93	-10.44	-6.34	-8.1	-4.91	-6.84	-8.43	-18.36
60	-4.41	-8.71	-8.65	-5.51	-10.14	-7.25	-8.94	-6.42	-7.27	-10.35	-10.01	-7.52	-18.36
75	-4.38	-9.63	-10.21	-11.1	-10.84	-10.65	-13.07	-12.32	-10.94	-6.59	-10.3	-10.32	-18.36
90	-4.24	-10.17	-10.57	-9.7	-11.28	-12.36	-12.92	-10.49	-13.01	-13.55	-13.68	-15.56	-18.36
105	-4.21	-10.37	-15.18	-12.51	-15.16	-16.1	-17.76	-15.73	-11.24	-12.1	-15.92	-17.09	-18.36
120	-4.07	-9.76	-13.21	-14.62	-15.74	-12.46	-11.25	-15.8	-18.72	-15.35	-13.81	-18.36	-18.36
135	-4.16	-9.02	-9.32	-9.47	-23.03	-24.14	-13.96	-13.03	-14.77	-14.44	-13.86	-17.57	-18.36
150	-4.14	-7.95	-8.85	-15.6	-13.63	-17.32	-12.04	-12.78	-13.85	-10.91	-20.93	-15.69	-18.36
165	-4.25	-6.91	-10.96	-21.18	-21.95	-10.68	-11.39	-8.06	-9.78	-9.8	-18.31	-10.69	-18.36
180	-4.23	-5.71	-13	-15.37	-14.2	-15.8	-10.62	-5.75	-9.58	-10.02	-13.54	-8.77	-18.36
195	-4.27	-4.43	-8.99	-9.98	-9.7	-18.21	-9.89	-6.36	-11.55	-9.33	-14.23	-8.8	-18.36
210	-4.15	-3.11	-7.6	-7.8	-5.93	-14.23	-8.54	-3.91	-9.72	-10.94	-14.13	-7.52	-18.36
225	-4.3	-2.71	-6.06	-7.15	-3.9	-5.58	-8.79	-3.43	-11.74	-13.49	-15.05	-6.93	-18.36

240	-4.49	-2.42	-2.25	-4.89	-2.63	-1.22	-5.05	-2.59	-8.78	-9.28	-15.6	-4.72	-18.36
255	-4.71	-1.84	-2.34	-2.12	-0.75	0.9	-1.88	-1.29	-3.63	-7.08	-6.37	-2.02	-18.36
270	-4.62	-1.38	-0.97	-0.28	-0.77	1.99	1.32	1.87	-0.98	-2.52	-3.88	-1.65	-18.36
285	-4.73	-1.24	-0.97	0.66	0.81	3.42	2.53	4.13	3.43	-8.25	-7.23	-0.55	-18.36
300	-4.6	-1.63	-1.59	1.3	2.57	3.07	3.83	6.34	1.8	2.86	-7.58	0.6	-18.36
315	-4.57	-2.15	-1.68	1.53	2.93	4.24	4.42	6.65	3.74	5.04	-5.49	1.08	-18.36
330	-4.79	-2.59	-1.72	0.93	2.38	4.34	3.74	5.28	5.36	1.35	-2.03	-0.41	-18.36
345	-4.86	-2.98	-2.62	-0.18	0.87	1.68	2.56	3.49	1.7	0.96	0.27	-4.05	-18.36

Ant7													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.4	-7.32	-0.55	0.43	1.42	3.17	3.56	0.71	0.89	0.37	-1.54	-6.35	-13.95
15	-9.8	-6.95	-0.75	1.6	3.3	4.54	3.99	6.05	2.2	2.78	-0.03	-5.19	-13.95
30	-10.08	-7.54	-1.34	0.75	2.31	3.81	2.58	3.95	2.21	3.33	1.25	-3.64	-13.95
45	-9.83	-9.14	-3.54	-1.96	-1.34	0.78	2.55	2.74	1.53	3.43	2.03	-3.61	-13.95
60	-9.67	-10.65	-5.85	-6.16	-6.59	-4.69	1.96	1.91	4.1	2.8	1.79	-3.29	-13.95
75	-9.69	-10.59	-9.01	-12.7	-7.62	-4.56	0.93	1.84	1.97	1.3	-0.25	-5.11	-13.95
90	-9.86	-8.88	-6.63	-6.36	-8.65	-1.51	0.32	-0.9	-1.97	-3.12	-4.35	-6.3	-13.95
105	-10.11	-7.6	-4.82	-5.35	-14.77	-1.58	2.78	3.08	-6.73	-6.74	-5.36	-5.93	-13.95
120	-10.23	-7.26	-5.44	-7.42	-11.53	-5.77	-5.72	0.05	-5.7	-11.73	-5.19	-6.52	-13.95
135	-10.11	-7.43	-6.59	-8.71	-11.61	-10.74	-4.31	-4.53	-6.13	-11.03	-6.75	-6.78	-13.95
150	-10.2	-7.25	-7.7	-7.8	-2.56	-1.93	-6.32	-4.93	-4.35	-8.53	-11.36	-8.91	-13.95
165	-10.16	-7.18	-8.77	-5.7	-1.58	-0.49	-7.6	-11.62	-3.96	-7.99	-12.52	-10.99	-13.95
180	-10.12	-8.48	-10.37	-5.67	-3.08	-3.56	-10.6	-9.5	-5.17	-6.73	-15.73	-13.95	-13.95
195	-10.16	-10.04	-10.91	-9.13	-5.27	-8.43	-20.55	-7.53	-9.31	-6.64	-16.03	-13.6	-13.95
210	-10.02	-10.6	-12.03	-14.81	-7.97	-15.75	-16.6	-14.01	-8.51	-8.15	-11.86	-13.66	-13.95
225	-9.76	-12.01	-10.43	-14.97	-17.46	-16.85	-17.11	-11.03	-13.17	-9.91	-12.3	-13.76	-13.95
240	-9.68	-13.72	-9.49	-10.04	-15.43	-11.08	-10.97	-9.82	-12.62	-10.37	-22.78	-12.43	-13.95
255	-9.73	-13.47	-9.76	-8.19	-10.93	-11.72	-11.87	-11.86	-17.35	-11.42	-11.41	-10.75	-13.95
270	-9.64	-12.46	-10.55	-8	-18.16	-9.92	-6.2	-6.04	-9.72	-9.63	-14.97	-12.47	-13.95
285	-9.85	-12.14	-9.96	-7.43	-14.21	-8.78	-5.63	-3.53	-8.7	-10.52	-13.71	-12.71	-13.95
300	-9.87	-11.35	-6.73	-6.44	-18.02	-6.18	-1.43	-2.68	-7.79	-7.84	-10.55	-11.04	-13.95
315	-9.5	-9.67	-3.63	-4.74	-12.99	-2.94	0.22	-2.39	-6.17	-9.83	-12	-11.41	-13.95
330	-9.21	-8.21	-1.7	-3.53	-5.85	1.18	1.94	-0.84	-4.37	-7.57	-7.9	-10.22	-13.95
345	-9.3	-7.8	-0.95	-1.86	-0.45	2.37	2.58	0.67	-0.54	-3.96	-4.07	-8.55	-13.95

Ant8													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-6.32	-7.36	-4.57	-4.27	-2.83	-0.69	-5.85	-2.22	0.87	-7.27	-10.86	-10.4	-16.11
15	-6.39	-6	-3.99	-3.54	-0.24	2.35	-3.33	-2.56	2	-6.22	-11.33	-8.59	-16.11
30	-6.55	-4.4	-2.64	-3.83	-2.1	0.49	-2.22	-7.26	-3.51	-6.47	-7.97	-7.47	-16.11

45	-6.46	-3.5	-1.91	-2.22	-6.35	-12.14	-5.58	-13.39	-9.75	-3.11	-7.86	-5.24	-16.11
60	-6.6	-3.48	-2.15	-2.35	-3.18	-3.13	-4.46	-10.59	-4.75	-2.24	-4.99	-4.41	-16.11
75	-7.07	-3	-1.92	-3.66	-5.09	-6.42	-1.02	-0.91	1.27	-3.39	-4.94	-3.68	-16.11
90	-7.22	-2.75	-3.05	-5.07	-0.12	3.6	2.17	2.25	3.93	-1.22	-3.76	-3.87	-16.11
105	-7.37	-3.07	-4.22	-2.16	-0.39	3.85	3.44	0.95	0.83	-1.64	-3.63	-4.54	-16.11
120	-7.61	-3.32	-3.91	-0.21	-1.01	0.69	1	3.64	3.59	0.87	-2.73	-5.39	-16.11
135	-7.66	-3.22	-2.97	0.92	0.18	2.31	0.85	3.65	1.57	1.94	-1.99	-4.97	-16.11
150	-7.51	-3.1	-1.44	0.98	1.61	1.92	0.17	1.34	-3.01	-2.58	-2.23	-5.17	-16.11
165	-7.44	-3.17	-1.16	-0.05	-0.45	1.99	3.65	3.25	0.37	-4.7	-4.81	-6.76	-16.11
180	-7.42	-3.57	-2.68	-2.45	-4.02	2.9	5.63	4.84	2.34	-3.07	-9.1	-9.01	-16.11
195	-7.53	-4.41	-4.62	-5.41	-3.05	2.23	4.65	6.17	1.66	-3.09	-11.88	-10.64	-16.11
210	-7.6	-5.48	-6.02	-10.17	-4.2	0.76	-0.63	3.01	-0.23	-3.61	-9.69	-9.1	-16.11
225	-7.56	-7.08	-8.79	-8.45	-7.84	-1.62	-1.94	0.79	-2.75	-5.22	-8.18	-10.71	-16.11
240	-7.15	-9.96	-12.14	-8.95	-9.75	-3.63	-6.97	-2.3	-3.01	-5.19	-8.09	-9.76	-16.11
255	-6.64	-14.14	-15.04	-15.63	-7.62	-9.42	-8.62	-9.85	-4.84	-6.17	-9.41	-9.75	-16.11
270	-6.48	-16.25	-19.12	-18.05	-12.42	-4.8	-13.81	-10.75	-11.28	-5.98	-6.06	-7.85	-16.11
285	-6.52	-15.37	-14.03	-11.82	-18.2	-7.25	-14.03	-10.83	-12.66	-9.47	-8.27	-6.59	-16.11
300	-6.54	-15.05	-8.48	-3.86	-8.51	-5.61	-10.3	-14.25	-11.5	-8.01	-11.01	-8.6	-16.11
315	-6.38	-14.43	-6.3	-3.59	-7.27	-6.38	-13.74	-10.73	-9.33	-18.72	-6.88	-13.32	-16.11
330	-6.31	-11.65	-5.75	-7.19	-4.99	-7.3	-9.45	-12.35	-5.47	-5.31	-8.25	-16.11	-16.11
345	-6.34	-9.19	-5.15	-7.26	-3.51	-5.24	-6.39	-5.69	-1.54	-5.51	-8.91	-11.28	-16.11

Ant9													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.79	-4.32	-1.92	1.56	-0.21	-0.84	-3.82	-1.82	0.8	2.58	-0.15	2.68	-5.61
15	-4.86	-4.16	-1.55	0.82	-3.94	-3.01	-1.01	-1.27	1.08	2.06	1.14	2.98	-5.61
30	-4.82	-4.54	-2.87	-2.28	-5.56	1.31	0.84	2.31	-0.8	2.16	1.89	4.62	-5.61
45	-4.72	-4.99	-4.09	-5.82	-1.56	2.68	1.18	0.8	-1.11	1.19	0.16	2.62	-5.61
60	-4.51	-5.44	-4.1	-2.1	0.48	2.59	-1.28	-3.93	-3.23	-2.2	-3.17	1.59	-5.61
75	-4.45	-6.03	-2.09	0.62	-1.29	2.6	0.17	0.57	-2.46	-2.5	-5.67	1	-5.61
90	-4.4	-6.54	-1.05	0.82	-3.54	0.48	-4.57	-1.43	-9.38	-5.56	-4.68	1.64	-5.61
105	-4.61	-7.12	-1.7	-1.79	-2.6	-2.01	-3.75	-2.91	-9.29	-9.17	-6.29	1.67	-5.61
120	-4.79	-7.35	-3.88	-4.21	-5.17	-4.35	-3.56	-3.97	-12.76	-9.52	-8.12	0.65	-5.61
135	-4.86	-7.53	-7.91	-8.85	-15.93	-7.11	-1.17	-4.8	-10.08	-12.32	-6.64	-0.29	-5.61
150	-4.74	-8.62	-10.68	-7.22	-15.95	-9.11	-3.8	-5.33	-7.33	-9.49	-13.99	-2.68	-5.61
165	-4.56	-9.24	-11.37	-8.09	-14.46	-12.57	-7.05	-10.13	-8.11	-9.78	-3.96	-4.22	-5.61
180	-4.5	-7.94	-12.54	-7.29	-11.33	-16.52	-15.08	-10.41	-12.6	-9.68	-4.57	-4.97	-5.61
195	-4.64	-7.39	-11.16	-7.62	-8.58	-18.82	-14.42	-7.98	-13.5	-6.17	-4.52	-4.7	-5.61
210	-4.8	-6.75	-9.04	-14.16	-14.08	-22.09	-12.85	-13.06	-7.51	-5.9	-5.49	-4.38	-5.61
225	-4.91	-6.12	-6.74	-8.97	-15.85	-12.48	-14.96	-9.43	-10.6	-12.86	-7.86	-5.61	-5.61
240	-4.9	-5.98	-7.97	-15.27	-13.77	-8.53	-15.03	-9.19	-14.49	-10.25	-6.03	-2.33	-5.61
255	-4.85	-6.56	-12.7	-12.41	-11.07	-11.72	-11.07	-11.05	-10.41	-11.29	-11.13	-2.42	-5.61

270	-4.89	-7.69	-15.03	-10.54	-9.28	-11.62	-9.05	-7.3	-15.72	-8.87	-6.76	-3.35	-5.61
285	-4.9	-8.36	-15.62	-10.38	-5.54	-19.29	-7.64	-2.64	-8.22	-2.61	-5.13	-2.86	-5.61
300	-4.83	-8.29	-11.8	-4.88	-4.46	-13.54	-5.2	-5.35	-5.65	-5.13	-1.85	-1.21	-5.61
315	-4.76	-6.89	-5.66	0.09	-1.97	-7.69	-4.46	-7.43	-6.16	-2.41	-0.77	-0.03	-5.61
330	-4.65	-5.51	-3.85	2.19	0.54	-3.65	-4.71	-6.25	-4.52	0.22	-0.86	0.75	-5.61
345	-4.73	-4.52	-2.61	2.18	1.24	-2.15	-4.11	-5.03	-2.98	1.55	-0.22	1.82	-5.61

Ant10													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.83	-1.55	-2.01	-10.27	-2.04	-5.94	-0.78	3.16	-4.7	-3.19	-4.18	-4.09	-11.99
15	-2.7	-2.36	-1.36	-6.95	-6.27	-4.86	-1.27	-1.87	-4.78	-1.1	-1.6	-2.61	-11.99
30	-2.55	-3.16	-2.62	-4.93	-14.06	-9.89	-5.29	-3.38	-3.38	-2.03	0.77	-0.47	-11.99
45	-2.62	-3.68	-5.07	-6.49	-15	-7.38	-3.77	-3.27	-0.55	-2.05	1.75	0.83	-11.99
60	-2.79	-3.97	-4.58	-5.27	-9.1	-3.35	-8.99	0.39	-2.05	-0.5	1.37	1.22	-11.99
75	-2.94	-3.73	-3.51	-4.15	-7.61	-3.63	-1.22	-3.84	-6.34	-0.88	0.16	0.6	-11.99
90	-2.83	-3.31	-2.78	-2.38	-4.72	-5.67	-3.76	0.71	-0.06	-1.61	-1.83	-1.12	-11.99
105	-2.72	-3.09	-2.82	-1.72	-1.81	-1.7	-6.91	-0.5	0.99	-0.66	-1.36	-0.83	-11.99
120	-2.56	-3.07	-3.43	-1.63	-1.48	-0.6	0.3	-1.02	0.17	-0.43	-2.1	0.45	-11.99
135	-2.62	-3.03	-4.07	-1.62	-1.39	-1.29	-1.9	-0.89	-0.82	0.17	-3.79	-0.02	-11.99
150	-2.84	-3.09	-4.34	-1.46	-2.16	0.03	-2.15	-2.33	-0.4	-1.95	-3.74	-0.97	-11.99
165	-3.17	-3.17	-3.9	-2.62	-2.75	0.08	0.32	-2.18	-2.15	-5.62	-5.83	-2.77	-11.99
180	-3.19	-2.99	-2.98	-2.74	-3.8	-0.12	-1.87	-2.27	-6.92	-12.09	-10.66	-3.63	-11.99
195	-3.13	-2.68	-1.93	-0.18	-2.8	-1.65	-6.38	-4.34	-12	-12.55	-13.31	-5.75	-11.99
210	-3.04	-2.51	-1.85	1.62	-1.06	-0.37	-3.41	-3.44	-5.72	-16.25	-12.64	-9.26	-11.99
225	-2.82	-2.92	-2.2	0.99	-0.65	-4.21	-6.72	-7.19	-12.12	-9.82	-12.83	-11.99	-11.99
240	-2.8	-3.62	-2.61	0.01	-2.82	-5.94	-5.99	-5.45	-12.27	-14.33	-10.78	-10.44	-11.99
255	-3.01	-3.44	-1.82	-0.12	-3.52	-3.01	-6.36	-5.06	-10.78	-14.4	-12.78	-10.57	-11.99
270	-3.19	-2.72	-1.15	-0.16	-5.17	-3.82	-5.49	-6.9	-11.95	-11.77	-17.81	-11.14	-11.99
285	-3.11	-2.14	-1.52	-0.67	-9.04	-2.04	0.01	-1.69	-6.33	-13.8	-15.75	-10.24	-11.99
300	-3.03	-2.06	-2.81	-0.97	-6.78	-1.44	-0.14	-3.08	-12.34	-9.57	-14.3	-8.62	-11.99
315	-2.81	-1.94	-3.79	-1.23	-6.98	-2.62	-1.96	-2.19	-7.52	-6.73	-9.48	-7.14	-11.99
330	-2.75	-1.66	-4.41	-3.74	-6.16	-6.18	-2.99	-0.25	-5.2	-5.73	-7.93	-5.87	-11.99
345	-2.78	-1.26	-3.72	-8.87	-2.61	-8.82	-1.07	0.37	-3.62	-4.51	-6.22	-5.03	-11.99

6225MHz Composite Gain of Ant5, Ant6, Ant7 &Ant8													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.42	-5.90	-3.37	-1.64	-1.10	0.11	-0.60	-1.93	-0.55	-2.41	-4.58	-7.94	-15.53
15	-7.55	-5.88	-3.74	-1.94	-0.35	1.25	-0.59	0.98	-0.22	-1.66	-4.15	-6.33	-15.53
30	-7.59	-6.08	-4.02	-2.34	-1.38	-0.05	-1.70	-1.11	-1.96	-1.35	-3.50	-6.05	-15.53
45	-7.50	-6.63	-4.53	-4.22	-4.89	-3.77	-2.54	-2.58	-3.55	-1.13	-2.91	-5.89	-15.53
60	-7.51	-7.48	-5.80	-5.34	-6.96	-5.75	-2.76	-3.16	-1.11	-1.77	-3.06	-5.29	-15.53

75	-7.63	-7.48	-6.39	-7.56	-8.47	-7.49	-2.80	-2.12	-1.21	-2.78	-4.48	-6.25	-15.53
90	-7.62	-7.17	-6.67	-7.45	-5.28	-0.98	-1.45	-1.64	-0.99	-4.81	-6.35	-6.94	-15.53
105	-7.67	-7.17	-6.53	-5.84	-6.06	-0.75	0.27	-0.56	-3.99	-5.57	-6.75	-6.78	-15.53
120	-7.64	-7.14	-6.41	-5.07	-6.44	-3.45	-3.24	-0.11	-1.61	-4.31	-6.34	-7.34	-15.53
135	-7.66	-6.94	-6.19	-4.05	-5.31	-2.70	-3.15	-0.85	-2.90	-3.24	-6.25	-7.02	-15.53
150	-7.64	-6.65	-5.31	-3.99	-2.44	-1.63	-2.91	-1.52	-4.06	-6.13	-7.13	-7.68	-15.53
165	-7.70	-6.47	-5.24	-4.17	-3.02	-0.49	0.44	-0.05	-1.50	-5.47	-8.12	-8.19	-15.53
180	-7.68	-6.59	-6.34	-4.66	-4.53	0.36	2.02	1.40	-0.86	-4.57	-8.68	-8.26	-15.53
195	-7.74	-6.69	-6.14	-4.87	-3.43	1.32	2.08	1.91	-1.22	-4.77	-8.18	-8.23	-15.53
210	-7.65	-6.46	-6.32	-4.39	-1.54	1.59	2.50	1.58	-0.44	-4.60	-7.96	-8.07	-15.53
225	-7.66	-6.82	-5.68	-2.95	-0.88	1.04	0.16	0.75	-0.49	-2.82	-7.52	-7.69	-15.53
240	-7.64	-7.30	-4.70	-1.57	-1.03	0.49	-1.00	-0.94	-1.36	-1.75	-7.59	-6.11	-15.53
255	-7.61	-7.10	-4.85	-1.20	-0.80	-0.40	-2.73	-1.64	-3.76	-2.41	-6.73	-4.75	-15.53
270	-7.48	-6.50	-4.38	-1.67	-2.73	-1.02	-1.35	-0.62	-4.39	-3.97	-5.59	-3.92	-15.53
285	-7.63	-6.00	-3.80	-2.01	-3.79	-1.14	-1.69	0.02	-1.45	-7.63	-5.42	-3.36	-15.53
300	-7.61	-5.82	-3.20	-1.28	-1.95	-0.91	-0.18	1.41	-3.09	-2.18	-8.81	-3.39	-15.53
315	-7.49	-5.79	-2.86	-1.47	-1.38	-0.39	0.65	1.35	-1.64	-0.71	-8.10	-3.94	-15.53
330	-7.51	-5.82	-3.02	-2.56	-1.94	0.39	0.63	0.73	0.14	-3.36	-6.16	-5.49	-15.53
345	-7.54	-5.92	-3.19	-2.74	-1.69	-0.49	0.09	-0.13	-0.91	-3.00	-3.93	-7.84	-15.53

6225MHz Composite Gain of Ant6, Ant7, Ant9 &Ant10													
Freq	6225												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.84	-3.68	-1.86	-0.45	0.03	0.30	0.45	0.56	-0.29	0.31	-1.82	-1.61	-10.08
15	-4.85	-4.06	-1.86	-0.73	-0.81	0.42	0.57	1.56	-0.25	0.68	-0.69	-0.92	-10.08
30	-4.76	-4.80	-2.99	-1.69	-1.96	0.28	-0.47	1.03	-0.88	0.71	0.30	0.47	-10.08
45	-4.72	-5.68	-4.52	-4.80	-3.57	-0.41	-0.43	-0.24	-0.92	0.48	0.35	-0.44	-10.08
60	-4.72	-6.44	-5.48	-4.45	-4.10	-1.54	-1.92	-0.86	-0.16	-0.59	-0.63	-0.69	-10.08
75	-4.75	-6.63	-4.93	-3.80	-5.33	-1.72	-1.13	-1.05	-2.12	-1.33	-2.32	-1.54	-10.08
90	-4.67	-6.41	-3.93	-2.75	-6.06	-2.69	-3.24	-1.55	-3.50	-4.26	-4.54	-2.05	-10.08
105	-4.69	-6.24	-4.09	-3.76	-4.97	-2.96	-1.97	-0.63	-3.82	-5.04	-4.94	-1.92	-10.08
120	-4.64	-6.15	-5.24	-4.94	-5.56	-4.09	-3.34	-2.54	-4.64	-5.55	-5.55	-2.03	-10.08
135	-4.70	-6.11	-6.53	-5.74	-6.85	-5.91	-3.42	-4.12	-5.22	-5.18	-6.54	-2.68	-10.08
150	-4.76	-6.12	-7.25	-5.62	-5.12	-3.49	-4.81	-5.04	-4.24	-6.14	-8.67	-4.27	-10.08
165	-4.87	-6.04	-7.61	-6.11	-4.99	-2.90	-4.20	-6.35	-4.98	-7.94	-7.37	-5.72	-10.08
180	-4.85	-5.71	-7.56	-5.94	-5.93	-4.37	-6.70	-5.76	-7.74	-9.20	-8.98	-6.36	-10.08
195	-4.88	-5.30	-6.36	-4.70	-5.74	-6.70	-10.25	-6.31	-11.32	-8.02	-9.37	-7.10	-10.08
210	-4.84	-4.72	-5.96	-3.74	-5.10	-6.07	-7.76	-6.25	-7.61	-8.91	-9.58	-7.55	-10.08
225	-4.81	-4.71	-5.40	-3.96	-4.84	-7.37	-10.04	-6.79	-11.81	-11.21	-11.16	-8.36	-10.08
240	-4.84	-4.87	-4.51	-4.39	-5.46	-5.13	-7.72	-5.76	-11.52	-10.69	-10.39	-5.73	-10.08
255	-4.98	-4.64	-4.56	-3.48	-4.42	-3.31	-5.92	-5.23	-8.05	-10.24	-9.66	-4.64	-10.08
270	-5.02	-4.29	-3.75	-2.70	-4.97	-2.66	-3.01	-2.64	-6.04	-6.65	-7.77	-4.95	-10.08
285	-5.04	-4.06	-3.89	-2.42	-3.85	-1.30	-0.92	0.27	-1.67	-6.84	-8.50	-4.13	-10.08

300	-4.96	-4.17	-4.27	-1.71	-2.23	-1.21	0.42	1.48	-2.99	-2.02	-6.23	-2.75	-10.08
315	-4.82	-4.08	-3.46	-0.54	-1.47	-0.13	0.80	1.75	-1.21	0.09	-4.90	-1.97	-10.08
330	-4.80	-3.81	-2.75	-0.27	-0.75	0.70	0.76	1.29	0.47	-1.46	-3.54	-2.12	-10.08
345	-4.86	-3.54	-2.36	-0.72	0.00	-0.07	0.78	0.79	-0.84	-0.67	-1.80	-2.28	-10.08

Ant5													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-16.12	-9.03	-10.06	-5.62	-8.81	-6.94	-10.41	-12.77	-8.6	-11.86	-13.85	-11.43	-11.43
15	-16.07	-9.3	-10.37	-10.95	-13.54	-10.28	-14.86	-13.03	-14.76	-8.72	-17.25	-11.06	-11.43
30	-15.36	-10.21	-10.22	-10.67	-14.12	-11.81	-12.31	-15.74	-17.19	-11.27	-13.74	-9.43	-11.43
45	-15.27	-12.23	-9.67	-10	-16.25	-15.38	-21.01	-14.11	-16.96	-13	-9.93	-7.8	-11.43
60	-15.07	-16.47	-10.6	-8.33	-16.42	-13.45	-12.41	-15.02	-24.07	-10.49	-10.14	-8.43	-11.43
75	-14.77	-23.26	-14.24	-10.79	-19.8	-10.59	-13.7	-12.53	-16.75	-14.03	-12.06	-10.63	-11.43
90	-15.1	-24.51	-12.11	-11.92	-16.96	-9.68	-9.98	-11.04	-17.73	-12.65	-9.92	-8.4	-11.43
105	-15.61	-20.22	-8.73	-8.42	-14.67	-6.18	-8.67	-5.93	-12.9	-12.02	-12.24	-8.7	-11.43
120	-15.38	-17.96	-9.17	-10.95	-15.71	-7.18	-6.6	-4.18	-8.07	-7.85	-13.09	-9	-11.43
135	-14.9	-17.37	-10.88	-9.86	-9.04	-4.74	-5.04	-3.82	-6.79	-8.88	-12.13	-7.47	-11.43
150	-14.1	-14.48	-9.78	-8.67	-6.93	-3.32	-0.99	-0.26	-2.63	-6.78	-8.69	-7.01	-11.43
165	-13.97	-11.5	-8	-5.46	-5.33	-0.44	2.35	1.97	-1.23	-4.13	-5.71	-7.34	-11.43
180	-14.15	-9.91	-6.99	-3.43	-2.83	2.18	4.09	4.15	-0.27	-3.4	-6.02	-6.67	-11.43
195	-14.72	-9.81	-7.07	-2.49	1.64	5.3	6.51	5.01	1.28	-2.65	-4.48	-5.09	-11.43
210	-15.14	-9.53	-6.34	-0.96	4.16	6.15	7.85	5.78	3.89	-0.18	-3.82	-4.83	-11.43
225	-15.11	-8.16	-4.28	0.58	4.74	5.75	6.13	6.15	4.65	3.07	-1.5	-5.86	-11.43
240	-14.68	-7.69	-3.16	2.32	3.76	5	4.69	5.47	4.38	3.59	-1	-5.51	-11.43
255	-14.91	-8.62	-2.53	3.86	2.74	2.87	1.91	2.36	0.89	1.87	-2.06	-5.78	-11.43
270	-14.96	-9.79	-3.08	2.93	1.69	1.97	1.28	3.42	-1.17	-2.61	-6.28	-7.48	-11.43
285	-15.09	-10.03	-4.29	-0.88	-1.9	-6.22	-0.47	1.46	-3.91	-4.58	-3.71	-6.57	-11.43
300	-15.12	-10.08	-4.53	-1.49	-4.86	-2.74	-5.67	-3.35	-4.91	-9.5	-9.04	-6.42	-11.43
315	-15.51	-10.36	-5.31	-2.14	-2.3	-2.28	-2.7	-4.18	-16.27	-7.25	-11.43	-7.27	-11.43
330	-15.8	-10.69	-6.44	-3.49	-2.98	-4.66	-4.82	-4.72	-15.76	-10.17	-11.61	-8.29	-11.43
345	-15.93	-9.97	-8.26	-4.6	-5.3	-5.93	-8.36	-7.58	-8.67	-12.65	-12.6	-10	-11.43

Ant6													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.03	-8.16	-5.91	-3.63	-0.17	1.02	0.73	1.21	1.17	1.26	-4.68	-5.02	-15.64
15	-5.02	-9.15	-8.93	-4.03	-1.86	-0.65	-2.17	-1.61	-3.16	-2.08	-6.77	-3.92	-15.64
30	-4.98	-9.33	-8.78	-6.36	-4.73	-4.6	-5.81	-4.64	-4.44	-6.28	-7.97	-4.97	-15.64
45	-4.91	-8.87	-10.3	-7.62	-6.33	-5.65	-7.15	-5.08	-6.62	-6.28	-10.13	-6.89	-15.64
60	-4.47	-9.23	-11.13	-9.37	-11.3	-6.48	-9.11	-7.52	-8.89	-9.37	-8.98	-5.87	-15.64
75	-4.69	-10.06	-11.27	-10.88	-13.64	-12.44	-11.9	-15.74	-12.04	-10.4	-10.71	-8.19	-15.64

90	-4.89	-9.6	-11.25	-10.64	-15.35	-13.25	-11.61	-12.2	-12.18	-10.12	-15.87	-13.53	-15.64
105	-5.04	-9.19	-15.72	-13.58	-15.89	-11.53	-14.96	-17.8	-14.59	-16.68	-19.6	-15.64	-15.64
120	-4.77	-8.9	-14.62	-12.18	-18.73	-14	-12.29	-14.81	-14.25	-9.5	-18.18	-14.26	-15.64
135	-4.81	-8.95	-15.05	-16.18	-13.61	-16.05	-17.48	-14.54	-15.05	-12.49	-15.49	-12.76	-15.64
150	-4.6	-8.82	-17.71	-12.61	-20.06	-11.8	-13.12	-11.46	-14.17	-11.04	-17.47	-14.49	-15.64
165	-4.78	-8.68	-18.61	-15.09	-11.73	-15.1	-11.34	-15.29	-14.37	-10.28	-12.81	-13.57	-15.64
180	-4.88	-9.1	-16.92	-15.4	-14.83	-15.42	-17.08	-12.3	-13.72	-7.71	-10.12	-10.32	-15.64
195	-5	-8.99	-15.16	-7.13	-14.26	-11	-13.21	-13.28	-11.74	-7.31	-14.73	-11.06	-15.64
210	-4.88	-9.07	-7.85	-3.96	-7.2	-4.51	-9.5	-5.33	-10.6	-9.38	-13.73	-9.24	-15.64
225	-4.92	-8.49	-11.41	-0.71	-3.99	-1.76	-5.12	-2.64	-10.32	-12.46	-10.8	-9.05	-15.64
240	-5.13	-7.49	-10.31	-1.86	-2.79	-1.24	-6.78	-4.54	-8.9	-9.15	-16.18	-10.37	-15.64
255	-5.01	-6.84	-7.6	-3.03	-1.87	-0.98	-3.32	-5.34	-6.82	-13.79	-11.76	-5.52	-15.64
270	-5.02	-5.8	-7.41	-4.58	-2.97	0.02	-0.82	1.44	-1.33	-1.48	-5.07	-4.63	-15.64
285	-4.98	-5.15	-5.35	-0.07	0.07	2.9	3.42	3.13	3.39	-5.07	-2.88	-2.97	-15.64
300	-5.09	-5.08	-3.19	1.65	1.91	2.55	4.41	7.04	0.55	3.07	-9.29	-0.1	-15.64
315	-5.02	-5.56	-2.42	0.25	2.61	4.06	5.2	5.89	3.2	4.46	-5.61	0.37	-15.64
330	-4.98	-6.34	-3.11	-1.57	1.95	4.11	3.74	3.87	4.76	2.02	-4.21	-1.52	-15.64
345	-4.91	-7.24	-4.44	-3.25	0.5	1.9	2.16	0.86	3.79	2.06	-1.9	-4.55	-15.64

Ant7													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-9.86	-8	-1.39	0.34	0.4	2.62	4.43	5.21	2.07	-1.93	-5.13	-4.57	-11.96
15	-9.97	-9.13	-2.74	1.17	1.36	4.24	4.72	6.43	2.43	-0.11	-3.25	-4.29	-11.96
30	-9.67	-9.89	-5.04	0.45	0.27	3.71	4	4.93	2.44	1.19	-1.26	-2.59	-11.96
45	-9.34	-9.59	-9.4	-3.41	-5.22	-0.54	2.29	3.56	3.82	2.75	0.17	-2.99	-11.96
60	-9.33	-8.39	-11.69	-11.04	-11.36	-4.81	0.62	2.98	4.8	3.21	0.76	-2.93	-11.96
75	-9.44	-7.21	-6.74	-6.03	-6.38	-2.31	1.17	1.78	2.32	2.24	1.04	-2.79	-11.96
90	-9.76	-7.19	-7.64	-3.72	-2.82	2.73	2.87	-0.89	-5.84	-0.06	-0.45	-2.62	-11.96
105	-10.04	-8.5	-10.5	-5.43	-5.91	-2.97	-0.53	-0.58	-6.27	-4.66	-3.58	-2.81	-11.96
120	-10.17	-9.81	-11.95	-8.56	-9.81	-2.42	1.46	2.54	-7.64	-16.6	-10.89	-4.23	-11.96
135	-10.34	-9.38	-9.75	-9.62	-8.27	-2.9	-5.09	-2.22	-7.92	-10.75	-15.77	-6.9	-11.96
150	-10.29	-8.43	-9.66	-9.87	-11.85	-11.17	-16.25	-8.24	-6.78	-5.99	-11.2	-10.38	-11.96
165	-10.21	-7.08	-8.71	-6.71	-10.84	-1.3	-4.75	-10.96	-9.88	-5.98	-9.83	-11.85	-11.96
180	-9.95	-6.2	-9.69	-8.78	-9.77	-3.99	-5.51	-12.95	-8.62	-7.11	-10.85	-11.11	-11.96
195	-9.95	-7.05	-11.31	-9.42	-7.71	-5.5	-6.31	-7.99	-8.25	-11.27	-14.84	-9.43	-11.96
210	-10.33	-8.65	-11.97	-11.04	-8.9	-8.75	-8.82	-10.35	-11.21	-11.37	-19.73	-7.36	-11.96
225	-10.45	-9.84	-13.06	-12.58	-15.78	-9.35	-9.45	-9.6	-12.85	-9.94	-16.09	-9.94	-11.96
240	-10.38	-11.45	-11.18	-11.81	-11.41	-9.98	-12.74	-13.43	-10.87	-12.1	-10.63	-9.94	-11.96
255	-10.27	-14.27	-14.23	-9.13	-8.49	-13.36	-13.46	-12.24	-13.57	-8.18	-10.8	-11.96	-11.96
270	-10.05	-15.33	-10.24	-7.27	-11.17	-7.89	-8.33	-7.58	-6.86	-13.17	-9.76	-9.45	-11.96
285	-9.88	-15.83	-7.49	-4.85	-9.54	-10.34	-7.31	-4.17	-7.62	-9.46	-7.91	-8.05	-11.96
300	-9.81	-16.23	-6.55	-4.25	-10.07	-5.71	-3.12	-3.3	-6.96	-5.25	-9.33	-8.49	-11.96

315	-9.43	-12.86	-3.45	-1.72	-10.1	-3.96	-1.03	-2.19	-5.57	-6.34	-6.53	-9.71	-11.96
330	-9.4	-10.22	-1.21	-1.09	-7	-0.86	2.05	0.36	-3.05	-5.24	-6.56	-7.83	-11.96
345	-9.49	-8.32	-1.14	-0.79	-1.54	1.84	3.34	1.83	-0.23	-4.35	-7.76	-5.69	-11.96

Ant8													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.42	-5.38	-4.06	-10.03	-4.79	-0.56	-4.45	-9.01	-1.32	-6.42	-7.76	-11.08	-11.24
15	-5.29	-3.9	-2.71	-7.31	-2.44	0.95	-1.78	-4.72	-3.08	-6.92	-8.09	-7.84	-11.24
30	-5.19	-3.12	-2.02	-6.39	-3.54	-7.29	-0.98	-4.34	-7.55	-5.8	-9.32	-6.18	-11.24
45	-5.27	-2.9	-1.54	-6.23	-1.58	0.46	-1.54	-6.09	-10.67	-4.56	-9.48	-3.91	-11.24
60	-5.41	-3.14	-1.26	-3.41	-1.79	2.85	1.32	-1.29	-3.61	-3.64	-6.92	-2.52	-11.24
75	-5.55	-3.53	-2.79	-5.27	-1.29	-6.4	-2.11	0.39	-0.06	-2.93	-3.88	-2.06	-11.24
90	-5.84	-3.81	-5.9	-7.56	1.74	3.85	2.25	-2.28	-2.4	-2.55	-3.73	-2.67	-11.24
105	-6.12	-3.37	-6.45	-3.94	-2.72	3.34	3.19	1.58	1.05	-1.23	-4.32	-4.46	-11.24
120	-6.38	-2.77	-2.55	-1.9	-3.24	0.07	3.16	4.01	3.97	1.43	-1.9	-6.82	-11.24
135	-6.5	-2.3	-1.7	0.15	0.2	3.24	3.44	3.62	0.98	2.13	-1.13	-6.96	-11.24
150	-6.36	-2.01	-2.37	0.13	0.96	2.79	2.69	1.33	-2.87	-0.95	-0.87	-5.26	-11.24
165	-6.27	-1.94	-3.36	-1.06	-0.92	-0.28	4.3	3.65	-1.97	-3.55	-2.63	-5.3	-11.24
180	-6.37	-2.32	-4.64	-2.79	-4.85	0.21	4.14	5.81	0.45	-3.57	-6.48	-5.68	-11.24
195	-6.45	-2.97	-4.82	-4.2	-5.01	0.29	2.84	4.73	0.83	-4.24	-9.41	-6.17	-11.24
210	-6.51	-4.16	-5.85	-5.82	-3.68	-1.06	-2.01	2.87	-0.26	-6.09	-9.32	-6.48	-11.24
225	-6.62	-5.91	-6.81	-8.45	-5.61	-3.8	-3.52	-0.52	-3.17	-6.7	-8.58	-6.91	-11.24
240	-6.52	-7.84	-8.53	-9.33	-6.9	-6.92	-9.55	-3.22	-4.89	-7.46	-8.12	-8.49	-11.24
255	-6.36	-9.6	-14.93	-22.67	-8.62	-11.57	-14.57	-16.51	-6.16	-6.25	-9.38	-8.78	-11.24
270	-5.9	-10.92	-17.53	-14.52	-11.46	-8.64	-12.55	-16.88	-15.93	-7.29	-7.76	-8.64	-11.24
285	-5.57	-12.15	-12.88	-9.75	-21.19	-10.43	-16.95	-15.52	-20.63	-10.7	-8.01	-6.28	-11.24
300	-5.29	-14.98	-14.59	-5.89	-7.3	-8.07	-11.3	-16.85	-13	-8.52	-15.12	-5.08	-11.24
315	-5.36	-16.43	-9.34	-3.82	-10.85	-9.2	-14.42	-14.54	-12	-18.39	-10.08	-6.55	-11.24
330	-5.54	-11.36	-4.93	-5.43	-5.95	-5.35	-7.87	-12.18	-9.91	-7.03	-9.25	-10.01	-11.24
345	-5.63	-7.62	-4.77	-11.56	-5.9	-4.82	-7.63	-9.72	-2.96	-6	-8.89	-11.24	-11.24
345	-4.91	-7.24	-4.44	-3.25	0.5	1.9	2.16	0.86	3.79	2.06	-1.9	-4.55	-15.64

Ant9													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.42	-1.22	0.3	3.03	0.74	-3.19	-5.72	-3.34	0.04	2.2	1.89	4.1	-3.42
15	-3.16	-1.47	1.29	2.46	-2.35	-3.9	-0.16	-2.07	2	2.27	2.35	4.41	-3.16
30	-3.03	-1.67	0.69	0.32	-3.73	0.64	0.34	0.02	0.59	1.82	2.14	4.62	-3.03
45	-3.06	-2.14	-1.11	-0.1	-0.49	1.01	0.85	0.95	-0.78	0.05	0.16	3.88	-3.06
60	-3.11	-2.88	-1.96	1.39	0.48	1.41	-1.55	-2.42	-3.25	-4.84	-3.9	2.48	-3.11
75	-3.21	-3.73	-1.01	1.89	0.35	2.42	-0.59	-0.68	-3.02	-4.34	-8.43	0.45	-3.21
90	-3.3	-4.72	-0.04	1.97	-1.53	0.93	-2.63	0.11	-8.07	-4.53	-8.12	-0.06	-3.3

105	-3.28	-6.2	-0.34	0.36	-2.11	-0.98	-1.4	-2.75	-6.67	-6.32	-8.57	-0.17	-3.28
120	-3.19	-7.66	-1.74	-1.5	-2.7	-1.46	-2.89	-3.97	-7.92	-7.91	-8.69	-0.79	-3.19
135	-3.33	-7.43	-4.57	-4.65	-6.95	-3.68	-3.28	-10.6	-12.81	-10.23	-7.17	-1.47	-3.33
150	-3.43	-6.41	-8.78	-11.68	-18.93	-7.28	-3.44	-8.39	-7.64	-13.24	-13.88	-3.65	-3.43
165	-3.35	-7.34	-9.31	-11.39	-20.51	-7.22	-5.79	-12.11	-10.2	-9.33	-3.55	-5	-3.35
180	-3.28	-8.5	-9.52	-9.65	-14.38	-9.3	-11.32	-9.57	-16.64	-9.47	-4.36	-4.86	-3.28
195	-3.3	-6.86	-8.45	-8.76	-11.35	-12.07	-11.14	-6.69	-12.01	-8.08	-4.2	-4.52	-3.3
210	-3.27	-6.09	-6.78	-7.2	-16.45	-16.29	-12.8	-13.46	-8.15	-6.53	-4.41	-3.93	-3.27
225	-3.43	-6.98	-5.72	-7.33	-13.3	-19.93	-14.54	-14.02	-12.13	-8.85	-7.26	-4.69	-3.43
240	-3.54	-7.62	-7.04	-8.96	-14.26	-13.6	-11.96	-12.62	-16.84	-6.73	-4.84	-2.85	-3.54
255	-3.59	-7.53	-10.46	-16.26	-16.88	-11.02	-11.13	-10.23	-11.09	-7.63	-7.18	-2.41	-3.59
270	-3.41	-7.71	-12.2	-15.52	-10.47	-13.01	-10.01	-7.04	-15.27	-8.09	-4.89	-2.26	-3.41
285	-3.18	-8.13	-12.18	-10.75	-6.67	-14.93	-12.07	-6.04	-10.7	-1.32	-3.42	-1.84	-3.18
300	-3.11	-6.6	-7	-4.01	-4.39	-13.39	-9.72	-6.28	-9.4	-3.49	-1.68	-0.32	-3.11
315	-3.15	-4.19	-4.42	0.23	-3.18	-10.54	-8.62	-10.03	-5.02	-1.08	-0.89	0.99	-3.15
330	-3.22	-2.45	-3.05	2.02	-0.49	-9.28	-8.92	-5.88	-4.22	1.08	-0.02	2.47	-3.22
345	-3.45	-1.46	-1.57	3.22	0.97	-3.22	-6.11	-3.59	-1.07	1.42	1.07	3.62	-3.45

Ant10													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.72	-3.74	-2.18	-4.9	-2.81	-3.72	-3.75	-5.22	-3.09	-1.92	-4.63	-3.05	-10.47
15	-3.79	-4.59	-1.86	-2.11	-5.31	-4.65	-4.14	-6.48	-2.87	0.38	-1.83	-1.32	-10.47
30	-3.66	-5.5	-3.23	-2.81	-11.29	-14.32	-4.19	-2.47	-0.79	-1.34	1.27	0.06	-10.47
45	-3.54	-6.22	-4.43	-6.05	-11.02	-2.02	-2.43	-1.4	1.05	-2.45	2.61	1.26	-10.47
60	-3.62	-5.8	-4.92	-7.58	-9.72	-3.66	-5.63	-3.11	-3.2	-2.17	1.43	1.33	-10.47
75	-3.65	-4.83	-5.23	-6.41	-6.05	-4.92	-0.53	-2.23	-7.2	-2.61	-0.6	-0.04	-10.47
90	-3.81	-3.88	-5.13	-4.29	-6.12	-9.02	-7.28	-0.42	0.19	-0.4	-1.03	-1.34	-10.47
105	-3.9	-3.75	-4.47	-2.89	-1.66	-2.15	-2.84	-2.58	0.59	-0.43	-1.46	-0.24	-10.47
120	-3.76	-3.65	-4.53	-4.23	-1.71	-2.79	-0.73	-1.74	0.74	-1.24	-2.49	1.17	-10.47
135	-3.49	-3.56	-4.67	-4.15	-1.92	-2.21	-1.34	-1.98	0	-0.4	-3.48	0.37	-10.47
150	-3.51	-3.32	-5.08	-3.19	-1.51	0.57	1.77	-2.91	0.2	-2.2	-2.89	-0.9	-10.47
165	-3.72	-2.98	-5.58	-2.58	-1.56	1.53	2.25	-1.14	-1.37	-5.62	-2.97	-2.52	-10.47
180	-4.13	-2.69	-5.49	-2.29	-3.37	-0.13	0.28	-1.82	-4.63	-12.72	-7.51	-2.79	-10.47
195	-4.26	-2.56	-3.55	-1.01	-3.64	-1.33	-3.48	-5.29	-8.18	-12.61	-15.52	-3.92	-10.47
210	-4.33	-2.42	-1.31	-0.13	-2.96	-0.81	-2.07	-5.28	-4.99	-10.55	-9.96	-6.27	-10.47
225	-4.21	-2.15	-0.45	0.41	-1.01	-2.24	-4.09	-6.27	-9.73	-8.04	-9.1	-9.94	-10.47
240	-3.94	-2.98	-1.31	-0.34	-3.15	-4.33	-10.02	-5.31	-17.73	-9.79	-8.74	-9.51	-10.47
255	-3.81	-4.55	-2.37	-0.36	-3.55	-1.56	-4.81	-2.94	-8.19	-13.86	-7.98	-9.12	-10.47
270	-4.03	-5.48	-2.25	0.31	-1.92	-4.22	-5.13	-8.35	-12.53	-10.82	-20.69	-9.77	-10.47
285	-4.14	-5.17	-1.96	-0.08	-6.81	-3.05	0.73	-1.94	-6.08	-14.25	-15.95	-10.47	-10.47
300	-4.22	-4.33	-2.41	-1.19	-4.6	-0.16	0.76	-1.95	-10.08	-9.41	-13.87	-9.1	-10.47
315	-4.27	-3.72	-3.3	-2.34	-6.74	-2.27	-1.14	-2.14	-6.55	-7.61	-9.41	-6.61	-10.47

330	-4.07	-3.32	-3.91	-3.02	-7.87	-5.12	-1.25	-0.23	-4.68	-5.2	-8.19	-5.07	-10.47
345	-3.73	-3.25	-3.06	-4.45	-4.7	-6.62	-1.28	-0.47	-3.41	-4.68	-6.75	-3.7	-10.47

6425MHz Composite Gain of Ant5, Ant6, Ant7 &Ant8													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-7.39	-7.41	-4.34	-3.26	-2.00	0.19	0.42	0.81	-0.23	-2.46	-6.70	-6.92	-12.25
15	-7.35	-7.16	-4.92	-3.07	-1.81	0.84	0.28	1.36	-1.61	-3.16	-6.69	-5.93	-12.25
30	-7.23	-6.98	-5.34	-3.83	-3.27	-1.32	-0.42	-0.17	-2.39	-3.26	-5.74	-5.14	-12.25
45	-7.18	-6.92	-5.95	-6.17	-5.04	-2.41	-1.88	-1.45	-1.65	-2.01	-4.71	-4.95	-12.25
60	-7.03	-7.14	-6.11	-7.00	-6.82	-1.99	-1.73	-1.34	-0.47	-1.66	-3.93	-4.34	-12.25
75	-7.18	-7.35	-6.73	-7.50	-5.91	-6.19	-2.94	-1.73	-1.59	-2.38	-3.40	-4.60	-12.25
90	-7.44	-7.45	-8.49	-7.27	-2.87	0.47	-0.24	-4.13	-6.41	-3.73	-4.40	-4.96	-12.25
105	-7.67	-7.38	-9.24	-6.59	-6.72	-1.29	-1.05	-1.89	-3.99	-5.30	-6.58	-5.83	-12.25
120	-7.64	-7.11	-7.13	-6.36	-8.10	-3.42	-0.28	0.73	-1.46	-3.75	-7.04	-7.28	-12.25
135	-7.70	-6.73	-6.50	-4.98	-4.67	-1.28	-1.47	-0.77	-3.83	-3.23	-6.54	-7.98	-12.25
150	-7.51	-6.29	-6.94	-4.80	-4.19	-2.03	-1.66	-2.00	-4.85	-4.74	-5.82	-8.07	-12.25
165	-7.54	-5.84	-7.17	-4.84	-5.05	-1.85	0.81	0.00	-4.18	-5.32	-6.15	-8.32	-12.25
180	-7.60	-5.80	-7.75	-5.45	-6.08	-1.07	1.35	2.12	-2.54	-5.01	-7.86	-7.85	-12.25
195	-7.71	-6.32	-8.02	-5.05	-3.05	0.81	2.23	2.01	-1.60	-5.30	-8.72	-7.31	-12.25
210	-7.75	-7.24	-7.45	-4.13	-0.76	1.30	2.41	1.84	-0.51	-4.58	-8.35	-6.69	-12.25
225	-7.82	-7.86	-7.55	-2.62	-0.36	0.93	0.94	1.51	-0.53	-2.22	-6.22	-7.64	-12.25
240	-7.86	-8.35	-7.03	-1.97	-1.00	0.23	-0.81	0.41	-0.87	-1.79	-5.77	-8.12	-12.25
255	-7.74	-9.11	-6.98	-1.17	-1.54	-1.47	-2.80	-2.81	-3.66	-3.08	-6.54	-7.32	-12.25
270	-7.55	-9.22	-7.07	-1.98	-2.74	-1.43	-2.27	-0.24	-3.64	-4.28	-6.88	-7.14	-12.25
285	-7.39	-9.10	-6.51	-2.53	-3.51	-2.27	-0.83	-0.15	-1.59	-6.69	-5.01	-5.54	-12.25
300	-7.32	-9.35	-5.65	-1.54	-2.67	-1.62	-0.47	1.77	-3.69	-1.91	-10.11	-3.83	-12.25
315	-7.28	-9.54	-4.45	-1.61	-1.88	-0.39	0.68	0.88	-2.12	-0.93	-7.78	-3.97	-12.25
330	-7.34	-9.16	-3.48	-2.58	-2.00	0.03	0.47	-0.09	-0.44	-2.62	-7.06	-5.54	-12.25
345	-7.36	-8.17	-3.95	-3.66	-2.26	-0.38	0.13	-1.21	-0.02	-2.44	-6.03	-7.01	-12.25

6425MHz Composite Gain of Ant6, Ant7, Ant9 &Ant10													
Freq	6425												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.89	-4.29	-1.77	-0.17	-0.26	0.00	0.65	1.31	0.43	0.29	-1.98	-0.30	-9.06
15	-4.83	-4.87	-1.78	0.09	-1.40	0.28	0.90	1.71	0.35	0.39	-1.17	0.29	-9.06
30	-4.70	-5.29	-2.81	-1.34	-3.24	-0.12	0.25	0.99	0.10	-0.22	-0.13	0.77	-9.06
45	-4.63	-5.65	-4.74	-3.34	-4.24	-1.18	-0.37	0.56	0.73	-0.34	0.00	0.50	-9.06
60	-4.57	-5.84	-5.59	-3.60	-4.65	-2.27	-2.50	-0.94	0.11	-1.05	-1.09	-0.11	-9.06
75	-4.68	-5.85	-4.63	-2.79	-3.96	-1.69	-1.06	-1.27	-2.11	-1.74	-2.27	-1.58	-9.06
90	-4.84	-5.82	-4.13	-2.12	-4.26	-0.85	-1.65	-1.54	-4.20	-2.31	-3.30	-2.38	-9.06
105	-4.92	-6.37	-4.57	-3.16	-4.03	-3.05	-2.67	-3.07	-3.89	-4.25	-4.87	-2.11	-9.06
120	-4.78	-6.80	-5.53	-4.93	-4.78	-3.34	-1.52	-1.40	-4.10	-5.82	-7.01	-1.94	-9.06

135	-4.77	-6.66	-6.84	-6.67	-5.86	-4.07	-4.17	-4.70	-5.07	-5.42	-7.60	-2.88	-9.06
150	-4.75	-6.16	-8.48	-7.54	-7.02	-4.35	-2.95	-6.59	-4.35	-6.11	-7.90	-4.65	-9.06
165	-4.83	-5.94	-8.68	-6.63	-6.69	-2.25	-2.31	-6.29	-6.18	-7.35	-5.60	-6.09	-9.06
180	-4.94	-5.84	-8.84	-6.68	-7.99	-4.21	-4.43	-6.59	-8.65	-8.77	-7.43	-5.92	-9.06
195	-5.02	-5.67	-7.64	-5.11	-7.49	-5.38	-6.95	-7.47	-9.67	-9.29	-9.26	-6.24	-9.06
210	-5.02	-5.69	-5.31	-3.87	-6.74	-4.75	-6.40	-7.41	-8.01	-9.04	-8.89	-6.27	-9.06
225	-5.07	-5.79	-4.91	-2.62	-5.00	-4.59	-6.75	-6.34	-11.07	-9.53	-9.80	-7.78	-9.06
240	-5.07	-6.35	-5.58	-3.54	-5.53	-5.00	-9.72	-7.29	-12.07	-9.03	-8.44	-6.86	-9.06
255	-5.01	-7.15	-6.57	-4.08	-5.04	-3.92	-6.39	-6.22	-9.20	-9.92	-9.03	-5.85	-9.06
270	-5.00	-7.30	-6.33	-3.88	-4.84	-3.99	-4.62	-3.21	-5.90	-6.03	-7.27	-5.39	-9.06
285	-4.93	-7.05	-5.35	-2.26	-4.11	-1.92	-0.42	-0.80	-1.73	-5.23	-5.39	-4.54	-9.06
300	-4.94	-6.37	-4.33	-1.26	-2.29	-1.14	0.56	2.04	-4.12	-1.41	-6.22	-2.65	-9.06
315	-4.92	-5.47	-3.34	-0.74	-1.85	-0.42	0.97	1.14	-1.39	-0.02	-4.48	-1.76	-9.06
330	-4.88	-4.68	-2.70	-0.50	-1.51	-0.20	0.83	0.73	0.22	-0.61	-3.60	-1.33	-9.06
345	-4.85	-4.19	-2.37	-0.26	-0.69	-0.26	0.78	0.08	0.59	-0.34	-2.40	-0.77	-9.06

Ant5													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-11.09	-12.87	-7.45	-6.47	-9.95	-13.9	-10.91	-13.2	-8.04	-15.68	-11.85	-9.25	-11.55
15	-11.08	-12.2	-8.04	-7.44	-16.6	-18.85	-19.79	-17.82	-9.44	-13.3	-12.67	-11.55	-11.55
30	-10.8	-11.44	-7.43	-8.08	-13.62	-17.17	-15.17	-14.7	-14.34	-13.27	-9.76	-11.38	-11.55
45	-10.7	-11.73	-9.73	-9.45	-13.18	-14.35	-17.24	-17.13	-13.79	-13.23	-7.43	-8.36	-11.55
60	-10.46	-13.2	-17.87	-14.61	-32.64	-20.38	-11.84	-14.28	-19.78	-8.67	-8.72	-10.14	-11.55
75	-10.32	-15.38	-18.85	-13.13	-14.8	-12.33	-14.26	-11.34	-14.36	-15.94	-14.67	-9.31	-11.55
90	-10	-17.05	-12.63	-11.67	-14.66	-17.31	-11.42	-10.95	-13.59	-12.97	-15.89	-8.12	-11.55
105	-10.1	-17.86	-12.39	-10.34	-15.12	-10.53	-12.54	-9.11	-12.44	-11.36	-19.54	-8.79	-11.55
120	-9.88	-21.24	-13.43	-11.99	-10.74	-7.89	-10.93	-8.39	-6.19	-8.17	-16.64	-9.79	-11.55
135	-10.01	-21.87	-12.44	-10.57	-8.94	-6.15	-5.6	-4.75	-4.9	-6.51	-14.58	-8.54	-11.55
150	-9.86	-17.48	-11	-7.81	-6.07	-4.63	-2.14	-0.84	-1.4	-4.23	-14.01	-8.66	-11.55
165	-9.68	-16.95	-11.63	-5.35	-3.92	-0.54	1.79	2.02	0.3	-2.93	-13.09	-7.32	-11.55
180	-9.8	-14.46	-10.21	-4.28	-1.15	1.86	3.56	3.99	1.66	-1.44	-10.34	-6.24	-11.55
195	-9.95	-11.32	-8.56	-2.95	1.19	4.11	5.37	5.74	3.62	-0.15	-8.02	-4.03	-11.55
210	-9.99	-9.14	-5.02	-0.47	3.38	5.87	5.76	7.59	5.77	1.98	-5.85	-2.65	-11.55
225	-10.6	-8.5	-2.73	1.82	4.15	5.59	5.39	5.87	5.37	3.37	-3.43	-2.78	-11.55
240	-10.71	-7.6	-0.54	2.41	3.82	5.13	4.33	5.27	2.81	3.09	-1.57	-1.87	-11.55
255	-10.49	-6.66	-0.36	2	2.81	1.88	1.73	2.69	1.23	0.97	-1.11	-1.08	-11.55
270	-10.84	-6.36	-1.01	2.36	1.44	-2.13	-1.06	1.54	0.58	-3.4	-2.62	-2.26	-11.55
285	-10.89	-6.85	-2.19	1.71	-1.26	-7.46	-1.05	0.61	-1.9	-6.87	-4.99	-2.8	-11.55
300	-10.93	-7.62	-3.44	-1.04	-2.05	-6.14	-3.76	-6.1	-4.57	-11.47	-9.32	-4.03	-11.55
315	-11.4	-8.64	-3.46	-1.2	-3.52	-1.92	-5.82	-4.8	-11.38	-8.24	-10.99	-6.59	-11.55
330	-11.45	-10.08	-4.42	-2.87	-3.09	-3.87	-4.98	-5.06	-13.47	-12.52	-10.25	-7.43	-11.55

345	-11.28	-11.67	-5.88	-4.94	-6.63	-8.55	-8.11	-7.03	-9.36	-14.35	-9.94	-8.64	-11.55
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Ant6													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-20.62	-9.22	-6.17	-3.93	-0.92	2.34	1.57	0.49	-0.17	2.23	-4.3	-3.75	-14.13
15	-20.6	-9.38	-6.67	-5.42	-3.97	-0.68	-0.6	-2.4	-0.98	-0.03	-6.6	-3.77	-14.13
30	-20.57	-9.7	-8.76	-7.67	-6.42	-3.78	-2.07	-1.04	-3.68	-4.32	-7.57	-7.11	-14.13
45	-20.94	-10.1	-12.59	-11.31	-8.91	-8.61	-4.88	-4.35	-5.4	-5.53	-11.61	-7.59	-14.13
60	-20.8	-11.24	-12.3	-10.15	-17.84	-10.2	-11.48	-4.89	-8.6	-7.56	-8.4	-4.77	-14.13
75	-21.4	-12.33	-14.18	-11.03	-15.16	-14.05	-11.94	-9.64	-10.79	-9.78	-10.46	-7.89	-14.13
90	-20.51	-15.17	-15.85	-12.59	-20.11	-15.68	-9.17	-10.67	-10.84	-7.07	-13.27	-14.13	-14.13
105	-20.42	-19.31	-19.24	-14.1	-12.64	-14.83	-14.58	-16.08	-14.84	-17.81	-13.5	-13.41	-14.13
120	-19.76	-25.54	-16.04	-13.38	-18.73	-20.57	-12.59	-15.48	-13.39	-7.07	-14.98	-10.77	-14.13
135	-20.78	-24.13	-12.43	-19.19	-13.85	-14.63	-17.91	-15.41	-15.44	-11.9	-11.51	-10.09	-14.13
150	-20.16	-18.98	-11.73	-16.64	-12.32	-14.09	-20.8	-11.28	-17.77	-11.14	-12.36	-9.59	-14.13
165	-21.9	-18.08	-12.01	-13.93	-9.69	-11.59	-12.31	-10.49	-12.83	-7.7	-16.61	-9.84	-14.13
180	-21.62	-16.63	-10.5	-8.25	-12.38	-16.36	-14.61	-9.63	-20.13	-7.86	-11.37	-8.37	-14.13
195	-21.82	-14.32	-8.74	-10.37	-8.52	-9.98	-13.15	-8.28	-9.91	-5.56	-14.53	-8.01	-14.13
210	-20.65	-12.95	-8.69	-5.9	-5.14	-3.35	-7.26	-7.94	-11.94	-8.14	-14.1	-7.95	-14.13
225	-21.42	-14.17	-4.67	-6.8	-5.26	-0.37	-6.58	-2.19	-11.76	-16.48	-14.44	-5.46	-14.13
240	-20.15	-13.02	-3.95	-1.86	-5.52	-0.23	-5.95	-8.29	-17.32	-16.94	-14.31	-7.58	-14.13
255	-21.34	-10.93	-3.48	0.23	-4.15	-2.66	-2.76	-3.78	-5.3	-10.57	-10.4	-4.65	-14.13
270	-21.76	-10.88	-3.69	0.41	-1.27	-0.05	0.04	2.52	-2.22	-1.43	-3.29	-2.39	-14.13
285	-22.06	-11.47	-4.47	0.2	2.79	2.43	3.53	4.7	3.3	-6.35	-2.98	-0.56	-14.13
300	-21.66	-11.86	-3.59	1.18	3.17	4.62	4.82	5.8	-0.47	2.26	-6.92	0.71	-14.13
315	-21.6	-11.68	-3.79	0.38	2.85	5.24	5.75	6.32	3.35	4.2	-5.45	0.01	-14.13
330	-20.78	-10.96	-4.61	-1.03	2.85	4.56	5.82	5.83	5.21	2.79	-4.36	-1.59	-14.13
345	-20.9	-10.01	-5.55	-2.24	1.8	3.76	4.75	4.32	3.69	2.44	-2.71	-3.78	-14.13

Ant7													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.85	-5.13	-1.29	2.58	2.72	4.63	4.93	4.19	2.61	-1.45	-4.82	-5.86	-9.87
15	-5.26	-4.94	-1.63	2.9	2.54	5.6	5.39	6.03	3.41	-0.42	-1.86	-4.75	-9.87
30	-5.31	-5.19	-2.28	1.12	-0.21	3.05	3.71	6.24	4.47	1.42	-0.14	-3.26	-9.87
45	-5.15	-4.57	-4.88	-2.22	-7.06	-2.18	0.98	5.15	4.65	3.43	0.83	-2.81	-9.87
60	-4.86	-3.16	-5.09	-2.57	-5.3	-1.73	-0.95	3.48	4.28	3.88	0.99	-2.47	-9.87
75	-4.71	-2.77	-4.1	0.6	-2.73	-0.06	0.12	1.71	1.72	2.57	-0.5	-3.62	-9.87
90	-5.18	-3.3	-3.58	0.68	0.17	0.94	1.57	0	-10.3	-2.09	-2.24	-4.77	-9.87
105	-5.31	-4.67	-4.89	-1.05	-1.18	0.8	-0.04	-0.06	-8.37	-7.41	-4.62	-4.66	-9.87
120	-5.35	-6.49	-11.19	-4.73	-3.84	-6.47	-3.12	0.98	-5.43	-11.25	-7.88	-4.86	-9.87
135	-5.21	-8.02	-7.81	-8.88	-8.58	-7.75	-7.55	-3.83	-8.16	-8.85	-8.68	-5.87	-9.87

150	-4.93	-8.42	-4.34	-7.48	-18.96	-13.03	-6.8	-6.27	-9.07	-2.04	-5.77	-8.26	-9.87
165	-4.68	-7.97	-5.44	-3.91	-7.03	-3.59	-5.26	-5.07	-8.34	-1.09	-5.18	-9.66	-9.87
180	-4.41	-7.8	-7.4	-4.78	-8.94	-2.29	-3.29	-11.92	-11.15	-2.33	-7.36	-8.64	-9.87
195	-4.22	-7.23	-10.97	-12.74	-11.1	-5.76	-5.3	-11.1	-12.75	-5.32	-12.52	-9.17	-9.87
210	-3.95	-7.09	-12.61	-14.35	-9.12	-13.68	-10.76	-12.52	-14.93	-11.25	-13.66	-7.06	-9.87
225	-3.95	-8.35	-9.86	-9.8	-13.45	-12.49	-9.35	-15.17	-18.74	-6.62	-14.74	-9.14	-9.87
240	-3.99	-9.9	-8.66	-7.2	-11.26	-10.14	-10.94	-15.8	-11.14	-9.28	-11.48	-9.87	-9.87
255	-4.02	-10.15	-8.86	-6.89	-6	-9.77	-15.53	-18.68	-17.84	-7.26	-8.84	-9.71	-9.87
270	-4.14	-9.69	-9.76	-4.87	-10.2	-9.45	-11.1	-12.2	-7.3	-12.96	-7.59	-8.73	-9.87
285	-4.18	-8.34	-8.7	-1.8	-5.4	-8.91	-8.28	-6.44	-9.79	-6.69	-4.69	-8.09	-9.87
300	-3.92	-6.86	-2.92	-1.35	-6.58	-10.58	-3.12	-3.15	-8.51	-3.65	-6.39	-7.19	-9.87
315	-3.9	-5.29	-0.56	-0.13	-4.82	-8.04	-0.81	-4.8	-3.21	-4.65	-5.49	-7.25	-9.87
330	-3.93	-4.17	-0.9	1.4	-3.1	-1.79	-0.39	-3.28	-4.11	-3.88	-4.66	-5.89	-9.87
345	-4.04	-4.18	-0.77	2.35	0.73	2.39	1.44	0.32	-1.6	-2.58	-7.73	-4.73	-9.87

Ant8													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-1.5	-5.08	-4.81	-10.59	-5.3	-3.28	-4.41	-6.86	-2.42	-11.73	-7.49	-12.56	-16.75
15	-1.49	-4.5	-3.28	-7.41	-6.93	-2.72	-5.12	-3.57	-4.59	-8.25	-5.35	-8.37	-16.75
30	-1.57	-3.82	-2.77	-6.55	-11.6	-5.18	-18.2	-8.04	-9.7	-3.88	-4.59	-4.36	-16.75
45	-1.48	-2.51	-3.35	-5.34	-7.33	-3.07	-6.19	-10.29	-10.67	-3.62	-4.16	-1.35	-16.75
60	-1.47	-1.49	-3.56	-3.97	-4.09	-1.53	-5.65	-6	-10.4	-5.23	-2.45	-0.13	-16.75
75	-1.62	-0.49	-4.02	-5.28	-0.77	0.79	-4.73	-2.74	-3.87	-2.62	-0.66	-0.72	-16.75
90	-1.69	0.34	-3.77	-6.2	0.57	2.63	2.44	-4.19	-4.76	-0.4	-2.8	-3.01	-16.75
105	-1.79	0.52	-2.67	-4.1	-1.35	-2.58	-1.41	-0.7	0.34	1.39	-2.55	-5.11	-16.75
120	-2.17	0.19	-1.83	-3.01	-3.99	-0.11	0.25	2.69	4.47	2.48	0.54	-5.58	-16.75
135	-2.25	-0.38	-1.93	-1.18	-0.24	1.39	0.11	2.85	3.59	3.43	1.02	-5.45	-16.75
150	-2.08	-0.84	-2.78	-0.7	2.47	1.32	-0.92	1.14	0.18	0.8	0.12	-4.15	-16.75
165	-1.98	-1.14	-3.04	-0.84	1.14	-0.93	2.99	2.48	-1.43	-2.53	-1.99	-3.75	-16.75
180	-1.88	-1.5	-4.07	-0.76	-2.14	-2.71	4.05	5.93	1.43	-5.09	-4.91	-3.93	-16.75
195	-1.88	-2.36	-5.74	-2.18	-5.44	-1.87	3.4	4.16	1.55	-4.54	-7.25	-3.86	-16.75
210	-2.14	-3.53	-8.2	-7.11	-4.23	-1.54	-0.06	0.55	0.83	-3.96	-8.52	-4.76	-16.75
225	-2.13	-4.83	-10.84	-10.14	-6.08	-2.5	-2.72	-2.82	-0.32	-3.82	-7.4	-4.93	-16.75
240	-2.01	-6.53	-10.95	-10.76	-8.47	-4.35	-6.15	-6.11	-4.86	-5.94	-6.94	-5.18	-16.75
255	-1.89	-9.01	-11.4	-23.4	-8.1	-9.43	-8.58	-13.99	-4.67	-7.34	-9.74	-5.04	-16.75
270	-1.68	-12.44	-14.92	-14.4	-10.77	-7.94	-13.92	-16.77	-13.87	-6.75	-7.88	-5.58	-16.75
285	-1.57	-17.06	-19.8	-8.98	-15.04	-15.6	-11.64	-25.65	-18.67	-8.81	-7.87	-5.38	-16.75
300	-1.54	-20.87	-13.52	-5.15	-7.17	-13.58	-14.17	-15.23	-15.39	-9	-12.37	-6	-16.75
315	-1.38	-13.24	-9.53	-4.34	-14.49	-11.36	-15.56	-18.08	-12.75	-17.03	-13.04	-7.96	-16.75
330	-1.41	-8.55	-6	-7.64	-5.99	-5.74	-16.65	-12.56	-9.53	-9.89	-12.38	-11.95	-16.75
345	-1.53	-6.31	-5.09	-14.54	-5.84	-6.95	-10.48	-8.93	-3.97	-8.84	-10.23	-16.75	-16.75

Ant9													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	0.18	0.14	1.54	1.76	-4.11	-10.15	-9.58	-5.01	0.59	-1.22	2.72	4.05	-3.93
15	0.03	0.37	2.44	1.85	-4.69	-7.46	-4.55	-3.63	-1.04	-0.03	3.15	4.31	-3.93
30	-0.18	-0.34	2.17	1.27	-5.06	-2.25	-2.32	-3.74	-1.81	1.41	2.89	4.56	-3.93
45	-0.37	-1.33	0.5	1.56	-3.44	0.41	-5.43	-8.37	-6.26	-2.56	0.73	4.02	-3.93
60	-0.48	-1.79	-0.74	1.79	-3.71	0.38	-5.7	-7.25	-12.45	-5.83	-1.97	2.68	-3.93
75	-0.57	-1.89	-2.14	1.88	-3.07	0.47	-2.42	1.31	-4.97	-6.11	-6	0.84	-3.93
90	-0.61	-1.99	-2.07	0.56	-1.78	-0.97	-1.14	-0.66	-5.72	-2.52	-10.27	0.37	-3.93
105	-0.56	-2.5	-1.28	-1.05	-3.54	-2.94	-2.7	-0.68	-5.33	-3.13	-10.49	0.57	-3.93
120	-0.51	-3.53	-1.99	-3.95	-3.77	-3.25	0.26	-0.9	-2.68	-8.27	-8.78	0.11	-3.93
135	-0.42	-4.87	-4.34	-5.94	-8.05	-7.35	0.03	-10.41	-6.96	-6.84	-7.74	-0.15	-3.93
150	-0.43	-5.61	-10.05	-8.89	-11.01	-7.98	-9.19	-6.25	-7.47	-9.22	-15.91	-2.03	-3.93
165	-0.62	-4.02	-8.54	-8.12	-8.05	-8.79	-14.16	-3.27	-6.1	-9.96	-6.45	-3.93	-3.93
180	-0.67	-3.33	-9	-8.71	-11.38	-5.94	-12.02	-8.4	-7.91	-8.75	-7.14	-3.24	-3.93
195	-0.57	-4.39	-8.8	-9.96	-11.3	-8.3	-10.93	-6.4	-13.51	-8.49	-5.01	-3.11	-3.93
210	-0.39	-5.02	-10.07	-14.75	-8.67	-8.5	-12.56	-14.36	-7.19	-7.31	-3.63	-2.29	-3.93
225	-0.12	-4.4	-8.94	-12.56	-9.3	-8.17	-7.26	-11.29	-8.67	-5.82	-5.04	-2.71	-3.93
240	0.07	-4.43	-10.07	-9.91	-12.43	-10.36	-15.37	-11.18	-14.17	-5.64	-3.04	-1.72	-3.93
255	0.15	-5.03	-10.6	-20.16	-15.36	-9.49	-12.13	-8.27	-8.17	-5.88	-5.83	-2.63	-3.93
270	0.14	-5.74	-12.85	-18.15	-10.2	-8.18	-11.16	-10.9	-11.42	-10.53	-6.63	-3.54	-3.93
285	0.02	-5.19	-16.92	-8.56	-8.45	-8.93	-16.57	-15.45	-8.84	-2.4	-3.55	-2.49	-3.93
300	-0.06	-3.67	-10.13	-4.68	-8.28	-9.11	-16.8	-12.74	-10.68	-1.39	-2.12	-0.21	-3.93
315	-0.08	-2.16	-6.23	-2.78	-6.89	-4.67	-12.71	-6.76	-4.27	-0.74	-0.97	0.97	-3.93
330	0.03	-0.98	-2.4	0.06	-4.99	-7.7	-10.2	-6.4	-2.34	1.76	0.78	2.39	-3.93
345	0.19	-0.25	-0.6	1.18	-4.39	-6.5	-16.45	-5.25	2.21	1.25	2	3.66	-3.93

Ant10													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-0.5	-3.88	0.04	-1.75	-3.74	-6.87	-2.51	-0.13	-3.02	-0.28	-3.05	-2.1	-11.79
15	-0.29	-4.32	-0.85	-0.14	-8.86	-6.68	-2.98	-2.79	-3.35	-0.04	0.01	-0.35	-11.79
30	-0.29	-3.99	-4.21	-0.33	-8.32	-14.2	-5.66	-5.69	-1.17	-1.98	3.05	1.07	-11.79
45	-0.52	-2.76	-5.57	-3.89	-9.25	-3.21	-0.52	-4.42	1.51	-4.56	3.4	1.83	-11.79
60	-0.65	-1.76	-3.07	-5.4	-9.23	-1.92	-5.53	-1.37	-3.65	-3.37	1.04	1.17	-11.79
75	-0.56	-1.39	-3.5	-8.06	-6.69	-8.11	-0.19	-2.68	-5.66	-1.93	-0.28	0.58	-11.79
90	-0.47	-1.73	-4.76	-6.47	-4	-4.17	-5.06	0.65	0.19	0.54	-0.99	0.01	-11.79
105	-0.47	-1.99	-5.73	-5.65	-3.97	-1.96	-2.5	-3.71	0.56	-0.82	-1.75	1.1	-11.79
120	-0.45	-2.45	-4.83	-4.25	-4.66	-2.45	-2.02	-2.85	1.47	-1.1	-1.73	2.8	-11.79
135	-0.56	-2.5	-2.72	-3	-2.06	0.26	0.64	-3.2	0.74	0.11	-2.8	1.45	-11.79
150	-0.73	-2.64	-1.08	-0.99	-1.31	-0.5	3.18	-1.52	1.4	-3.34	-1.86	-0.88	-11.79
165	-0.74	-2.66	-0.99	0.09	-1.41	1.04	3.43	0.06	0.69	-7.03	-1.15	-2.41	-11.79

180	-0.84	-2.24	-2.4	-1.43	-2.99	0.05	0.59	-0.86	-2.22	-9.2	-3.87	-2.06	-11.79
195	-0.96	-1.97	-2.69	-1.62	-3.83	-1.39	-2.22	-3.67	-5.42	-9.52	-8.32	-2	-11.79
210	-0.88	-1.96	-1.07	-0.61	-2.01	-1.08	0.23	-5.67	-2.71	-6.45	-9.16	-2.8	-11.79
225	-0.82	-2.29	-0.11	-0.47	-1.23	-1.18	-2.72	-5.38	-8.85	-7.46	-7.21	-5.34	-11.79
240	-0.91	-2.56	0.05	0.72	-1.91	-2.19	-10.95	-6.03	-13.94	-8.9	-8.53	-7.5	-11.79
255	-1	-2.61	-1.55	0.02	-3.41	-1.42	-5.34	-1.42	-6.67	-10.91	-8.58	-9.3	-11.79
270	-0.88	-3.11	-2.88	1.82	-1.24	-3	-2.62	-6.61	-8.65	-11.14	-13.43	-11.79	-11.79
285	-0.76	-3.85	-3.25	1.25	-4.18	-5.67	0.78	-1.68	-4.47	-14.34	-11.97	-8.8	-11.79
300	-0.7	-4.24	-3.55	-0.3	-6.85	-0.58	1.57	-0.79	-9.76	-12.58	-13.38	-7.88	-11.79
315	-0.77	-3.9	-3.54	-0.66	-10.47	-1.5	-0.29	-2.74	-5.32	-8.8	-9.38	-6.62	-11.79
330	-0.83	-3.54	-2.47	-2.25	-9.57	-6.55	-1.28	-1.37	-5.79	-5.81	-9.14	-6.26	-11.79
345	-0.82	-3.6	-0.93	-3.14	-4.48	-10.45	-2.96	-1.39	-5.22	-4.73	-6.82	-4.27	-11.79

6675MHz Composite Gain of Ant5, Ant6, Ant7 &Ant8													
Freq	6675												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.52	-7.05	-4.27	-1.99	-1.14	1.08	0.96	0.00	-0.56	-2.07	-6.27	-6.70	-12.35
15	-5.63	-6.72	-4.18	-1.87	-2.18	1.00	0.65	1.00	-0.64	-2.80	-5.17	-6.15	-12.35
30	-5.67	-6.49	-4.46	-3.37	-4.90	-1.61	-1.23	1.13	-0.74	-2.57	-3.99	-5.58	-12.35
45	-5.57	-5.71	-6.25	-5.69	-8.55	-4.97	-3.38	-0.28	-0.79	-1.30	-3.36	-4.04	-12.35
60	-5.46	-4.83	-6.85	-5.66	-7.56	-4.32	-5.18	-1.49	-1.37	-1.17	-2.79	-3.08	-12.35
75	-5.50	-4.23	-6.80	-4.06	-4.45	-2.43	-4.36	-2.60	-2.98	-2.07	-3.29	-4.09	-12.35
90	-5.65	-3.98	-6.29	-4.17	-2.55	-1.08	-0.73	-4.13	-8.59	-3.52	-5.25	-5.91	-12.35
105	-5.75	-4.27	-6.31	-4.86	-4.03	-3.29	-3.46	-3.04	-4.83	-3.85	-6.21	-6.84	-12.35
120	-5.97	-4.95	-6.98	-6.26	-6.43	-4.65	-3.76	-0.86	-0.74	-2.61	-4.72	-7.03	-12.35
135	-6.00	-5.67	-6.38	-6.06	-5.04	-3.41	-4.28	-1.70	-1.56	-1.84	-4.24	-7.09	-12.35
150	-5.79	-6.03	-5.84	-5.17	-2.83	-3.50	-3.88	-2.16	-3.22	-2.44	-4.59	-7.10	-12.35
165	-5.65	-6.18	-6.41	-4.08	-2.99	-2.60	-0.16	-0.27	-3.03	-2.98	-5.99	-6.89	-12.35
180	-5.52	-6.33	-7.22	-3.73	-4.08	-1.73	1.23	2.17	-1.33	-3.53	-7.75	-6.36	-12.35
195	-5.47	-6.57	-8.10	-5.03	-3.42	-0.47	1.74	2.16	-0.13	-3.26	-9.61	-5.66	-12.35
210	-5.52	-6.93	-7.85	-4.60	-1.27	1.03	0.99	2.49	1.04	-2.58	-9.18	-5.11	-12.35
225	-5.57	-7.86	-5.77	-3.16	-0.98	1.11	0.34	0.99	0.47	-1.51	-7.54	-5.03	-12.35
240	-5.52	-8.63	-4.25	-1.76	-1.39	0.67	-0.85	-0.24	-2.34	-2.16	-5.99	-5.12	-12.35
255	-5.45	-8.87	-4.06	-1.47	-1.71	-2.40	-2.62	-2.35	-3.05	-3.69	-5.60	-4.14	-12.35
270	-5.40	-9.23	-4.69	-0.99	-2.37	-3.29	-3.21	-0.84	-3.08	-4.44	-4.71	-4.03	-12.35
285	-5.35	-9.55	-5.58	-0.81	-1.29	-2.83	-0.89	0.35	-1.39	-7.08	-4.80	-3.35	-12.35
300	-5.25	-9.47	-4.42	-1.05	-1.09	-0.87	-0.02	0.57	-4.51	-2.38	-8.18	-2.98	-12.35
315	-5.18	-8.63	-3.33	-0.98	-1.65	0.23	0.86	0.94	-1.60	-1.05	-7.59	-4.06	-12.35
330	-5.20	-7.56	-3.54	-1.46	-1.02	0.21	1.03	0.67	-0.15	-2.10	-6.67	-5.24	-12.35
345	-5.30	-7.08	-3.76	-1.75	-1.00	0.47	0.63	0.11	-0.52	-2.09	-6.47	-6.41	-12.35

6675MHz Composite Gain of Ant6, Ant7, Ant9 &Ant10													
Freq	6675												

Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.46	-3.31	-0.68	0.40	-0.59	0.90	1.15	0.99	0.44	0.09	-1.15	-0.18	-8.15
15	-2.50	-3.25	-0.61	0.73	-1.76	0.86	1.13	1.42	0.25	-0.13	-0.07	0.39	-8.15
30	-2.60	-3.63	-1.62	-0.30	-3.87	-1.15	-0.19	1.53	0.65	-0.25	1.06	0.80	-8.15
45	-2.76	-3.68	-3.52	-2.02	-6.49	-2.37	-1.62	0.16	0.84	-0.72	0.65	0.74	-8.15
60	-2.82	-3.26	-3.70	-2.13	-6.69	-2.04	-4.49	-0.62	-0.83	-0.78	-0.83	0.07	-8.15
75	-2.80	-3.10	-4.30	-1.36	-4.98	-2.41	-1.83	-0.60	-2.68	-1.55	-2.66	-1.32	-8.15
90	-2.84	-3.46	-4.50	-1.89	-2.77	-2.13	-1.81	-1.10	-4.29	-2.03	-4.16	-2.11	-8.15
105	-2.84	-4.12	-4.72	-3.28	-3.82	-2.25	-2.75	-2.42	-3.95	-4.22	-5.42	-1.52	-8.15
120	-2.81	-5.09	-5.76	-5.37	-5.27	-4.96	-2.53	-1.85	-2.45	-5.24	-6.03	-0.78	-8.15
135	-2.81	-5.81	-5.51	-6.49	-6.20	-4.41	-2.30	-5.97	-4.07	-4.47	-6.48	-1.68	-8.15
150	-2.84	-6.13	-4.83	-5.51	-6.53	-5.45	-2.19	-5.04	-3.72	-4.93	-6.02	-3.71	-8.15
165	-2.89	-5.55	-4.93	-3.92	-5.28	-3.21	-1.87	-3.27	-3.94	-5.06	-4.82	-5.26	-8.15
180	-2.90	-5.05	-6.14	-4.76	-7.21	-3.28	-3.69	-5.46	-6.74	-6.01	-6.68	-4.63	-8.15
195	-2.87	-5.14	-6.56	-6.31	-7.53	-5.09	-5.92	-6.55	-9.15	-6.86	-8.59	-4.56	-8.15
210	-2.71	-5.24	-5.73	-5.24	-5.25	-4.48	-4.62	-8.82	-6.87	-7.95	-7.98	-4.34	-8.15
225	-2.58	-5.46	-4.13	-4.99	-5.18	-3.26	-5.77	-6.03	-10.63	-7.69	-8.44	-5.11	-8.15
240	-2.53	-5.74	-3.85	-2.75	-5.78	-3.61	-9.55	-9.03	-13.61	-8.70	-7.30	-5.50	-8.15
255	-2.53	-5.85	-4.67	-2.45	-5.52	-4.32	-6.42	-4.87	-7.70	-8.13	-8.08	-5.56	-8.15
270	-2.52	-6.27	-5.61	-1.31	-3.74	-3.58	-3.69	-2.70	-6.04	-6.31	-6.45	-5.16	-8.15
285	-2.53	-6.32	-6.08	-1.00	-1.68	-2.45	-0.43	-0.13	-1.66	-5.77	-4.72	-3.64	-8.15
300	-2.50	-5.70	-4.30	-0.81	-1.79	-0.02	0.95	1.12	-5.12	-1.40	-5.64	-2.07	-8.15
315	-2.53	-4.62	-3.06	-0.64	-1.95	0.56	1.44	1.27	-0.82	-0.06	-4.31	-1.77	-8.15
330	-2.51	-3.71	-2.40	-0.25	-1.48	-0.10	1.44	1.19	0.56	0.08	-2.95	-1.36	-8.15
345	-2.45	-3.32	-1.56	0.12	-0.68	0.44	0.89	0.80	0.96	-0.03	-2.05	-0.64	-8.15

Ant5													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-14.26	-10.73	-10.73	-7.76	-7.6	-17.97	-10.25	-9.43	-13.76	-9.01	-10.43	-13.48	-19.14
15	-13.74	-10.62	-11.47	-9.34	-11.01	-20.62	-20.18	-16.01	-13.87	-10.94	-13.54	-16.62	-19.14
30	-13.34	-11.33	-10.15	-9.65	-13.95	-18.49	-17.78	-13.56	-18.76	-14.89	-14.41	-17.81	-19.14
45	-12.98	-12.3	-11.19	-12.01	-16.2	-21.11	-31.68	-17.7	-17.71	-14.45	-10.04	-13.78	-19.14
60	-12.93	-13.88	-16.17	-14.56	-18.52	-18.71	-16.21	-13.87	-17.66	-11.07	-10.7	-18.58	-19.14
75	-12.97	-16.69	-17.74	-18.05	-19.71	-17.87	-17.63	-8.96	-17.04	-14.06	-18.45	-17.14	-19.14
90	-13.13	-20.02	-16.15	-11.19	-17.77	-13.39	-12.21	-12.97	-13.34	-13.74	-17.48	-16.53	-19.14
105	-13.43	-19.64	-17.47	-15.33	-16.57	-12.46	-13	-9.07	-11.79	-12.53	-14.1	-18.15	-19.14
120	-13.55	-17.03	-15.8	-12.77	-11.51	-8.18	-9.39	-10.6	-9.59	-9.87	-12.81	-19.14	-19.14
135	-13.1	-15.06	-13.24	-9.53	-9.85	-6.25	-6.87	-6.28	-7.95	-5.5	-10.31	-15.55	-19.14
150	-12.79	-13.83	-12.17	-7.19	-7.71	-4.25	-3.53	-4.24	-3.59	-4.14	-8.93	-13.56	-19.14
165	-12.64	-13.24	-10.39	-5.18	-3.67	-1.79	-0.51	0.7	-0.72	-2.25	-9.4	-10.82	-19.14
180	-12.42	-12.65	-9.65	-4.64	-2.18	0.24	2.59	3.59	0.47	-1.86	-7.04	-8.63	-19.14
195	-12.94	-11.94	-9.55	-2.93	0.39	3.46	4.14	3.46	3.6	0.86	-5.13	-7.5	-19.14

210	-13.75	-11.33	-8.28	-1.45	2.9	5.11	6.19	7.4	5.68	3.5	-3.56	-5.91	-19.14
225	-13.91	-10.1	-5.31	0.47	4.03	5.63	5.28	5.97	5.75	3.92	-2.59	-5.61	-19.14
240	-13.89	-10.11	-3.67	2.18	3.78	4.81	3.23	4.62	2.65	1.95	-3.19	-5.3	-19.14
255	-13.9	-11.19	-2.46	2.17	1.8	1.39	-0.11	3.73	1.11	-0.53	-5.76	-5.14	-19.14
270	-13.36	-11.61	-2.87	1.04	-0.67	-4.08	-3.88	1.78	0.46	-3.89	-7.9	-6.15	-19.14
285	-13.22	-11.87	-5.03	0.05	-1.7	-4.5	-4.76	0.5	-1.33	-7.11	-8.6	-6.92	-19.14
300	-13.53	-11.48	-6.07	-1.19	-3.09	-10.05	-7.17	-5.05	-3.53	-10.23	-17.2	-9.04	-19.14
315	-13.77	-10.9	-6.4	-2.23	-5.19	-4.09	-6.1	-6.72	-12.91	-8.03	-15.93	-11.27	-19.14
330	-14.08	-10.8	-6.72	-3.5	-4.41	-3.81	-1.65	-4.58	-10.83	-11.6	-10.52	-12.72	-19.14
345	-14.34	-10.89	-8.1	-5.85	-5.35	-8.38	-5.4	-6.03	-10.43	-9.86	-9.94	-12.96	-19.14

Ant6													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-12.17	-10.5	-5.47	-1.58	-2.05	1.87	1.25	3.09	2.38	1.47	-2.84	-6.91	-23
15	-12.16	-11.02	-6.14	-4.89	-4.05	-0.56	-1.66	-0.58	-0.81	-0.25	-4.99	-7.55	-23
30	-11.77	-11.26	-8.53	-6.38	-6.19	-4.47	-5.28	-3.43	-4.39	-3.48	-6.5	-12.74	-23
45	-12.3	-12.64	-8.63	-9.89	-6.94	-7.01	-6.8	-5.76	-6.11	-5.72	-10.22	-12.21	-23
60	-12.09	-12.65	-14.47	-16.24	-8.55	-10.87	-10.7	-11.05	-11.31	-7.52	-9.2	-11.25	-23
75	-11.68	-12.95	-15.43	-18.52	-19.84	-13.84	-14.32	-9.04	-8.76	-7.57	-11.42	-15.42	-23
90	-11.47	-15.95	-12.6	-11.45	-15.64	-17.18	-16.79	-16.84	-14.07	-9.67	-15.61	-23	-23
105	-11.29	-19.77	-13.11	-11.24	-19.73	-14.38	-17.49	-15.85	-16.67	-16.2	-12.14	-14.36	-23
120	-11.04	-20.99	-20.86	-11.92	-12.32	-17.05	-14.27	-14.59	-13.5	-10.74	-18.21	-8.26	-23
135	-11.08	-17.26	-18.69	-17.44	-22.05	-18.1	-21.39	-15.95	-12.61	-15.19	-13.47	-8.83	-23
150	-11.6	-15.12	-16.63	-21.12	-16.86	-13.36	-21	-10.91	-15.13	-11.32	-12.45	-13.32	-23
165	-11.54	-13.85	-15.26	-15.41	-9.32	-9.11	-11.57	-9.55	-21.01	-5.99	-15.84	-14.67	-23
180	-11.58	-12.24	-12.65	-9.48	-10.53	-9.15	-10.84	-5.81	-9.95	-5.45	-14.19	-11.22	-23
195	-11.53	-10.66	-9.62	-4.63	-7.85	-8.71	-8.61	-4.79	-7.01	-3.08	-15.1	-11.43	-23
210	-11.44	-9.37	-7.09	-3.93	-5.95	-3.75	-4.39	-7.01	-10.74	-5.67	-10.96	-10.55	-23
225	-11.54	-7.85	-8.67	-2.43	-3.97	-1.89	-4.4	-4.07	-14.48	-12.14	-12.29	-9.63	-23
240	-11.98	-7.24	-4.14	-1.99	-2.97	-2.58	-3.4	-7.88	-7.72	-15.29	-10.22	-11.02	-23
255	-12.14	-6.88	-2.92	-0.52	-3.5	-2.9	-2.09	-2.66	-6.93	-11.91	-9.63	-8.1	-23
270	-12.3	-6.24	-1.21	1.65	-0.74	0.8	-1.84	0.69	-2.35	-2.79	-2.24	-4.63	-23
285	-12.44	-6.36	-1.47	2.45	1.74	2.67	2.95	3.35	2.25	-4.53	-2.49	-1.56	-23
300	-12.24	-7.1	-2.58	2.27	1.72	4.72	2.92	5.44	-1.07	0.69	-6.16	-0.84	-23
315	-12.94	-7.94	-3.18	1.18	2.87	5.24	4.24	5.97	2.35	4.31	-5.75	-1.88	-23
330	-12.51	-8.95	-3.86	0.8	2.72	5.54	5.42	6.19	3.36	2.3	-3.39	-3.88	-23
345	-12.3	-10.12	-5.01	-0.24	0.58	2.55	3.38	3.68	3.2	1.62	-1.71	-6.25	-23

Ant7													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.2	-5.95	-2.01	3.42	1.7	6.34	3.22	1.15	-3.9	-4.1	-4.79	-6.01	-10.95

15	-3.46	-6.06	-2.32	2.33	2.35	5.89	2.35	0.19	-4.62	-2.19	-2.01	-3.95	-10.95
30	-3.71	-5.63	-3.84	-0.85	-0.52	2.82	-0.17	-0.94	0.1	0.56	0	-3.22	-10.95
45	-3.87	-5.11	-5.23	-4.46	-4.84	-0.27	-0.66	0.75	2.84	3.55	0.63	-2.14	-10.95
60	-3.82	-4.68	-5.59	-2.68	-0.98	3.51	1.27	1.29	1.71	3.73	-0.39	-1.69	-10.95
75	-3.72	-4.06	-2.51	2.02	-0.24	4.48	3.56	0.73	-0.81	2.27	-2.15	-1.96	-10.95
90	-3.75	-3.68	-2.26	2.11	2.01	1.7	3.1	-1.74	-4.67	-0.62	-5.72	-2.03	-10.95
105	-3.57	-4.21	-3.03	-0.64	0.78	2.71	2.35	-2.32	-6.78	-7.14	-10.28	-3.26	-10.95
120	-3.55	-5.79	-6.8	-3.46	-2.09	-2.59	-3.66	-1.89	-4.04	-10.24	-14.1	-5.32	-10.95
135	-3.79	-7.01	-9.16	-8.83	-9.32	-5.46	-6.51	-3.17	-12.34	-12.87	-12.96	-6	-10.95
150	-3.92	-6.76	-5.58	-7.93	-11.37	-8.59	-5.8	-8.67	-15.2	-2.87	-13.16	-7.5	-10.95
165	-3.8	-7.65	-4.37	-4.88	-9.83	-16.05	-5.73	-6.61	-21.71	-1.41	-12.3	-10.83	-10.95
180	-3.68	-11.41	-6.64	-4.78	-9	-5.74	-7.41	-11.06	-16.9	-3.7	-15.01	-9.93	-10.95
195	-3.24	-13.19	-9.02	-6.4	-10.34	-6.81	-5.68	-11.54	-14.85	-8.72	-16.19	-9.93	-10.95
210	-3.03	-13.8	-10.6	-8.59	-7.73	-15.53	-14.7	-12.24	-16.22	-15.08	-12.91	-8.84	-10.95
225	-2.94	-14.27	-12.77	-10.97	-12.17	-16.76	-13.37	-17.99	-18.04	-9.11	-11.38	-9.13	-10.95
240	-2.91	-12.49	-13.31	-10.31	-10.24	-12.84	-14.99	-13.47	-12.02	-11.84	-9.57	-10.1	-10.95
255	-2.95	-11.32	-11.92	-6.87	-8.48	-15.97	-15.38	-18.61	-25.01	-7.12	-9.7	-10.95	-10.95
270	-3.14	-10.34	-9.69	-5.94	-8.06	-10.23	-13.19	-8.6	-6.91	-13.66	-4.89	-9.35	-10.95
285	-3.14	-8.95	-6	-3.29	-9.08	-13.4	-13.48	-7.19	-8.65	-5.88	-4.78	-7.88	-10.95
300	-3.16	-7.13	-4.29	-4.43	-5.54	-15.19	-5.32	-4.54	-10.05	-3.6	-5.99	-6.3	-10.95
315	-3	-6.01	-4.74	-1.4	-4.7	-9.42	-2.21	-2.18	-4.4	-2.88	-3.49	-4.98	-10.95
330	-2.84	-5.99	-2.65	0.46	-1.62	-0.57	-0.06	-3.27	-2.29	-3.23	-4.17	-3.91	-10.95
345	-2.88	-6.01	-2.39	2.77	0.25	3.73	2.52	0.05	-2.27	-4.89	-6.55	-3.25	-10.95

Ant8													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-2.51	-5.41	-3.54	-6.51	-8.17	-7.47	-4.48	-4.86	-4.74	-13.75	-7.92	-9.27	-15.52
15	-2.58	-4.3	-2.86	-4.14	-13.1	-6.04	-7.48	-3.92	-6.02	-8.46	-5.42	-6.86	-15.52
30	-2.6	-3.96	-3.11	-4.48	-10.84	-10.39	-10.13	-5.98	-11.59	-5.54	-2.64	-3.59	-15.52
45	-2.41	-4.26	-4.26	-5.58	-10.16	-3.38	-3.44	-7.02	-13.55	-6.95	-1.51	-1.18	-15.52
60	-2.31	-3.36	-9.42	-8.42	-3.21	-4.73	-8.23	-5.01	-10.47	-6.81	-1.5	-0.39	-15.52
75	-2.63	-2.39	-10.74	-8.76	-1.76	1.31	-0.22	-5.57	-4.69	-2.92	-0.61	-0.41	-15.52
90	-3.01	-1.59	-6.29	-3.29	-0.38	0.41	2.75	-3.22	-5.02	1.14	-1.47	-1.58	-15.52
105	-2.99	-1.25	-5.52	-0.29	-0.71	0.56	0.98	-0.13	0.27	2.8	-1.28	-2.18	-15.52
120	-2.99	-1.86	-5.77	-1.44	-2.63	1.71	1.88	0.85	3.06	2.97	0.53	-2.04	-15.52
135	-2.74	-2.49	-4.58	-1.05	-2.46	0	-2.11	2.93	3.25	3.38	0.96	-2.35	-15.52
150	-2.52	-2.98	-3.22	-0.27	0.82	0.22	-12.21	1.65	0.08	1.19	-0.01	-2.89	-15.52
165	-2.69	-3.26	-3.48	-0.38	1.2	1.51	-1.84	0.41	-1.87	-2.15	-1.85	-4.18	-15.52
180	-3	-3.77	-4.86	-1.62	-0.92	1	3.65	4.38	0.07	-4.6	-5.15	-5.75	-15.52
195	-2.98	-4.36	-5.75	-2.13	-6.41	-0.31	4.08	4.73	0.75	-5.62	-7.53	-5.81	-15.52
210	-3.07	-5.22	-7.64	-4.39	-6.7	-1.42	1.82	1.1	-0.49	-4.58	-9.27	-6.43	-15.52
225	-2.99	-6.61	-8.8	-10.45	-7.19	-2.51	-1.94	-2.77	-1.85	-6.21	-9.63	-6.51	-15.52

240	-2.89	-8.33	-10.93	-12.79	-9.54	-3.84	-3.92	-8.61	-6.23	-7.04	-10.51	-6.47	-15.52
255	-2.59	-10.9	-15.87	-10.71	-9.11	-5.06	-7.31	-8.91	-6.2	-11.54	-12.27	-6.33	-15.52
270	-2.5	-14.86	-23.59	-11.43	-10.92	-7.43	-14.37	-16.72	-11.33	-10.88	-12.65	-6.8	-15.52
285	-2.57	-17.39	-17.83	-12.92	-13.82	-11.44	-9.16	-19.29	-23.44	-9.86	-11.08	-6.05	-15.52
300	-2.67	-14.1	-11.11	-6.81	-8.54	-12.85	-16.74	-14.37	-20.17	-11.33	-13.61	-6.8	-15.52
315	-2.64	-10.57	-7.49	-5.93	-14.02	-14.47	-19.29	-12.36	-13.77	-27.28	-12.62	-9.78	-15.52
330	-2.67	-8.2	-5.86	-10.57	-9.29	-8.4	-13.59	-7.24	-10.88	-10.97	-10.97	-14.88	-15.52
345	-2.52	-6.59	-5.31	-11	-7.78	-10.65	-8.73	-9.01	-5.85	-9.11	-10.73	-15.52	-15.52

Ant9													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-4.66	-2.32	-2.27	-4.31	-8.96	-9.49	-8.73	-3.81	3.03	3.12	3.61	3.77	-5.67
15	-4.49	-2.68	-0.02	-1.58	-12.22	-9.06	-12.44	-1.18	1.5	2.75	4.11	3.93	-5.67
30	-4.45	-2.96	-0.24	1.26	-9.97	-6.98	-9.15	-7.89	-3.43	-0.46	2.99	4.19	-5.67
45	-4.47	-3.52	-1.05	0.37	-7.09	-2.82	-1.57	-5.24	-4.99	-2.19	0.88	3.71	-5.67
60	-4.63	-4.55	-3.29	0.17	-7.41	-1.92	1.27	1.59	-4.76	-2.87	-1.12	2.63	-5.67
75	-5.03	-5.18	-4.97	-1.14	-11.9	0.11	1.65	3.02	-2.42	-0.88	-2.56	0.52	-5.67
90	-5.38	-5.15	-6.25	-3.36	-3.84	-1.41	-0.24	2.78	-3.91	-1.35	-3.43	-0.31	-5.67
105	-5.19	-4.64	-6.09	-3.13	-3.75	-3.1	-1.43	0.23	-3.63	-2.64	-3.21	-0.07	-5.67
120	-5.06	-4.22	-5.61	-6.35	-6.07	-6.6	-1.11	-0.7	-3.17	-6.62	-5.2	-1.12	-5.67
135	-5.1	-3.7	-7.36	-8.96	-8.31	-16.94	-3.65	-5.22	-6.24	-6.9	-6.23	-1.36	-5.67
150	-5.21	-3.51	-7.82	-17.23	-8.88	-11.57	-9.87	-8.69	-10.66	-6.12	-9.88	-3.44	-5.67
165	-5.32	-4.51	-6.47	-12.3	-10.67	-12.71	-12.23	-7.83	-7.25	-10.02	-13.37	-5.67	-5.67
180	-5.44	-6.26	-5.47	-13.04	-14.75	-12.5	-12.52	-5.6	-8.85	-9.17	-10.26	-4.92	-5.67
195	-5.29	-6.62	-10.13	-25.19	-17.81	-11.72	-14.08	-6.85	-13.94	-5.94	-4.1	-5.35	-5.67
210	-5.2	-7.48	-10.82	-11.83	-10.35	-13.69	-10.79	-15.25	-6.52	-4.19	-1.99	-5.18	-5.67
225	-5.2	-7.99	-9.75	-6.28	-10.91	-12.62	-10.67	-5.98	-15.98	-4.26	-3.69	-3.61	-5.67
240	-5.03	-7.22	-10.41	-8.71	-13.44	-14.22	-17.44	-9.73	-13.1	-9.4	-3.14	-1.65	-5.67
255	-4.74	-6.52	-10.46	-15.34	-16.21	-7.82	-15.58	-9.64	-7.43	-5.22	-6.57	-2.42	-5.67
270	-4.71	-6.12	-11.95	-13.92	-11.87	-7.89	-13.61	-9.84	-9.82	-16.69	-5.47	-2.39	-5.67
285	-4.57	-6.04	-11.43	-13.71	-14.89	-6.65	-10.04	-13.06	-9.58	-0.97	-3.09	-1.78	-5.67
300	-4.57	-5.86	-7.93	-9.32	-16.19	-5.6	-8.6	-7.75	-8.42	-1.62	-1.19	-1.03	-5.67
315	-4.56	-5.16	-7.76	-6.53	-13.92	-3.87	-8.37	-4.35	-3.51	-0.46	-0.04	0.01	-5.67
330	-4.48	-4.07	-6.56	-2.69	-11.91	-2.45	-7.03	-3.22	-1.54	2.22	2.02	1.75	-5.67
345	-4.49	-2.68	-4.56	-4.75	-10.83	-2.68	-3.91	-4.35	1.75	3.33	2.25	3.55	-5.67

Ant10													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-1.32	-5.77	-1.73	-2.17	-7.75	-5.6	-4.63	-1.12	-4.36	-2.37	-5.68	-1.06	-14.62
15	-1.31	-5.87	-1.94	-0.93	-13.69	-10.55	-4.84	-1.08	-5.64	-1	-2.76	0.3	-14.62
30	-1.38	-5.75	-4.52	-1.5	-9.17	-13.9	-10.27	-3.74	-2.27	-2.56	1.4	1.17	-14.62

45	-1.32	-4.05	-6.01	-6.1	-13.99	-6.14	-2.52	-1.61	0.28	-4.73	2.37	1.68	-14.62
60	-1.35	-2.91	-4.89	-6.71	-15.74	-4.14	-6.19	-6.28	-3.99	-3.51	0.15	0.76	-14.62
75	-1.41	-3.04	-6.47	-11.99	-8.02	-7.43	-6.01	-4.34	-5.47	-3.26	-0.97	0.67	-14.62
90	-1.35	-3.61	-7.11	-7.92	-6.28	-2.51	-8.04	-1.86	-1.36	-0.25	-0.29	0.73	-14.62
105	-1.33	-4.08	-6.35	-7.87	-9.6	-1.74	-8.76	-4.52	-1.47	-1.75	-2.11	1.58	-14.62
120	-1.43	-4.16	-4.98	-4.36	-6.36	0.36	-6.32	-3.24	-0.88	-0.93	-2.23	3.12	-14.62
135	-1.31	-4.29	-4.21	-1.82	-1.82	1.99	0.09	-2.52	-0.24	-0.5	-3.16	2.14	-14.62
150	-1.31	-4.06	-3.26	-1.74	-1.95	0.01	2.1	-3.02	-0.64	-5.26	-3.69	-0.66	-14.62
165	-1.45	-3.91	-2.72	-1.92	-2.38	-1.3	1.82	-1.9	-1.62	-11.7	-2.41	-3.13	-14.62
180	-1.54	-3.79	-3.09	-2.57	-3.4	-0.15	0.32	-0.47	-3.58	-10.34	-4.58	-2.77	-14.62
195	-1.66	-3.38	-5.06	-5.44	-5.28	-0.3	-2.47	-2.63	-5.39	-8.5	-8.61	-1.75	-14.62
210	-1.73	-2.79	-4.58	-3.78	-3.08	-0.37	0.27	-6.9	-2.94	-5.77	-7.89	-3.08	-14.62
225	-1.77	-2.37	-2.8	-1.51	-0.9	0.63	-2.35	-4.11	-8.59	-6.77	-7.86	-5.16	-14.62
240	-1.68	-2.21	-3.05	0.25	-1.66	-1.18	-8.21	-6.2	-9.47	-8.27	-9.74	-8.35	-14.62
255	-1.42	-2.63	-4.2	0.89	-4.96	-3.45	-6.53	-4.38	-6.1	-8.19	-6.96	-8.06	-14.62
270	-1.51	-3.52	-6.66	-0.59	-2.86	-5.67	-1.77	-6.02	-6.81	-12.34	-14.88	-14.62	-14.62
285	-1.64	-4.38	-8.12	-1.79	-5.47	-9.26	0.38	-2.76	-4.66	-14.26	-13.4	-10.35	-14.62
300	-1.67	-5.05	-6.64	-1.88	-8.19	-2.23	0.52	-1.9	-10.96	-12	-11.01	-10.33	-14.62
315	-1.78	-5.03	-5.2	-1.93	-10.26	-3.57	-0.94	-4.22	-6.64	-9.55	-8.02	-9.67	-14.62
330	-1.73	-5.14	-3.69	-2.44	-14.54	-10.17	-1.07	-4.09	-3.83	-5.21	-8.8	-7.13	-14.62
345	-1.39	-5.62	-2.67	-3.08	-7.61	-8.01	-5.21	-0.11	-4.88	-3.75	-8.42	-3.15	-14.62

6925MHz Composite Gain of Ant5, Ant6, Ant7 &Ant8													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-5.46	-7.47	-4.44	-0.86	-2.17	1.79	-0.13	-0.24	-2.02	-3.10	-5.59	-8.11	-15.03
15	-5.58	-7.07	-4.50	-1.98	-2.52	0.98	-1.89	-2.31	-4.36	-3.54	-4.96	-6.96	-15.03
30	-5.65	-6.86	-5.46	-4.21	-5.05	-2.26	-4.65	-4.10	-4.35	-3.24	-3.46	-6.09	-15.03
45	-5.63	-7.01	-6.54	-6.99	-7.89	-3.96	-4.20	-3.79	-2.54	-1.60	-2.89	-4.33	-15.03
60	-5.55	-6.49	-9.49	-7.32	-4.47	-1.75	-3.98	-3.51	-3.81	-1.51	-3.40	-3.77	-15.03
75	-5.65	-5.84	-7.63	-3.58	-3.89	0.23	-0.87	-3.69	-4.81	-2.20	-4.08	-3.99	-15.03
90	-5.84	-5.39	-6.44	-2.51	-1.96	-1.80	0.01	-5.17	-7.32	-2.37	-5.91	-4.72	-15.03
105	-5.76	-5.41	-6.75	-3.23	-2.84	-1.11	-1.19	-3.70	-4.68	-2.64	-6.30	-5.49	-15.03
120	-5.74	-6.28	-8.96	-4.93	-4.90	-2.59	-2.75	-3.04	-1.92	-2.47	-5.10	-5.68	-15.03
135	-5.70	-6.92	-8.77	-5.83	-7.02	-4.15	-5.80	-1.70	-2.24	-1.97	-4.45	-6.06	-15.03
150	-5.66	-7.06	-6.80	-4.88	-4.35	-3.95	-7.13	-2.89	-4.21	-2.42	-5.12	-7.09	-15.03
165	-5.69	-7.37	-6.31	-4.05	-3.08	-2.55	-3.28	-1.87	-4.23	-2.64	-6.71	-8.38	-15.03
180	-5.78	-8.20	-7.53	-4.33	-3.90	-1.70	0.41	1.28	-2.49	-3.69	-8.44	-8.38	-15.03
195	-5.61	-8.51	-8.16	-3.73	-4.04	-0.59	1.43	1.45	-0.33	-2.76	-8.71	-8.14	-15.03
210	-5.59	-8.77	-8.22	-3.92	-1.89	0.43	1.82	2.46	0.70	-1.41	-7.63	-7.55	-15.03
225	-5.52	-8.88	-8.13	-3.34	-0.99	0.87	0.44	0.87	0.48	-1.41	-7.04	-7.39	-15.03
240	-5.49	-9.12	-6.28	-2.16	-1.11	0.05	-1.25	-0.91	-2.38	-3.33	-7.13	-7.59	-15.03
255	-5.38	-9.62	-5.35	-1.51	-2.55	-2.54	-3.45	-1.19	-3.62	-5.18	-8.69	-7.13	-15.03

270	-5.40	-9.67	-4.61	-1.16	-3.15	-3.31	-5.42	-1.49	-3.07	-5.77	-5.46	-6.42	-15.03
285	-5.44	-9.57	-4.90	-0.85	-2.34	-2.36	-2.09	-0.60	-1.94	-6.44	-5.56	-4.84	-15.03
300	-5.50	-9.04	-5.05	-1.23	-2.23	-1.04	-2.10	0.21	-4.77	-3.52	-8.57	-4.58	-15.03
315	-5.46	-8.38	-5.14	-1.41	-1.84	-0.13	-0.56	0.82	-2.65	-0.74	-7.02	-5.43	-15.03
330	-5.39	-8.14	-4.48	-1.47	-1.19	0.99	1.14	1.11	-1.36	-2.36	-5.98	-6.47	-15.03
345	-5.34	-7.90	-4.74	-1.00	-1.77	0.40	0.40	-0.32	-1.20	-3.00	-5.68	-7.05	-15.03

6925MHz Composite Gain of Ant6, Ant7, Ant9 &Ant10													
Freq	6925												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0	-3.93	-5.25	-2.64	-0.14	-2.22	1.93	-0.10	0.54	0.52	0.44	-0.68	-0.43	-10.10
15	-3.96	-5.51	-2.10	-0.53	-2.57	0.95	-1.57	-0.63	-1.46	0.24	0.06	0.13	-10.10
30	-4.04	-5.53	-3.34	-1.11	-4.72	-2.02	-4.34	-3.36	-2.16	-1.19	0.60	0.48	-10.10
45	-4.08	-5.23	-4.34	-3.48	-7.18	-3.22	-2.36	-2.14	-0.52	-0.61	0.21	0.50	-10.10
60	-4.11	-5.03	-5.59	-3.43	-5.43	-0.77	-1.24	-1.10	-2.42	-0.58	-1.48	-0.25	-10.10
75	-4.18	-5.07	-5.48	-2.15	-5.31	0.06	0.02	-0.36	-3.42	-1.04	-2.93	-1.31	-10.10
90	-4.21	-5.25	-5.68	-2.37	-2.47	-1.58	-1.02	-0.92	-4.21	-1.79	-3.76	-1.63	-10.10
105	-4.11	-5.51	-5.92	-4.01	-3.62	-1.16	-1.89	-2.97	-4.63	-4.47	-5.06	-1.35	-10.10
120	-4.11	-5.88	-6.94	-5.55	-5.39	-3.29	-4.33	-2.99	-3.62	-5.21	-6.22	-0.88	-10.10
135	-4.13	-5.95	-7.58	-6.32	-6.34	-3.23	-3.76	-4.66	-4.89	-5.31	-6.90	-1.63	-10.10
150	-4.21	-5.69	-6.31	-6.69	-6.67	-5.03	-3.02	-6.72	-5.98	-5.48	-7.99	-4.16	-10.10
165	-4.27	-6.14	-5.39	-5.79	-6.55	-6.28	-3.19	-5.45	-6.52	-5.45	-7.54	-6.60	-10.10
180	-4.30	-7.06	-5.83	-5.82	-7.54	-4.53	-4.57	-4.22	-7.63	-6.36	-8.93	-5.90	-10.10
195	-4.19	-6.93	-7.94	-6.66	-8.47	-4.74	-5.96	-5.40	-8.53	-5.93	-8.37	-5.48	-10.10
210	-4.14	-6.67	-7.49	-5.90	-5.99	-4.53	-4.13	-9.09	-6.78	-6.25	-6.35	-5.96	-10.10
225	-4.13	-6.29	-6.89	-4.00	-4.70	-3.28	-5.70	-5.82	-12.70	-7.16	-7.43	-6.15	-10.10
240	-4.07	-5.87	-5.94	-3.19	-4.79	-4.55	-7.84	-8.58	-10.07	-10.47	-7.01	-5.99	-10.10
255	-3.91	-5.82	-5.83	-2.31	-6.33	-5.39	-6.49	-5.90	-8.01	-7.50	-7.97	-6.18	-10.10
270	-4.01	-5.94	-5.44	-1.82	-4.03	-3.64	-4.52	-3.81	-5.61	-7.90	-5.09	-5.72	-10.10
285	-4.04	-6.14	-5.26	-1.35	-3.16	-2.54	-0.96	-1.35	-2.47	-4.41	-4.46	-3.93	-10.10
300	-4.05	-6.19	-4.87	-1.53	-3.14	-0.14	-0.56	0.67	-5.59	-2.29	-4.77	-3.14	-10.10
315	-4.07	-5.89	-4.93	-1.40	-2.20	0.32	0.22	1.23	-1.64	0.24	-3.32	-2.85	-10.10
330	-3.97	-5.70	-3.97	-0.68	-1.77	1.07	1.34	1.38	-0.14	0.15	-1.93	-2.03	-10.10
345	-3.83	-5.37	-3.51	-0.38	-2.11	0.84	0.67	0.69	0.51	0.37	-1.68	-0.63	-10.10