

FCC Composite Gain Test Report

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Basic Information

EUT Description:	BE9700 Tri-Band Wi-Fi 7 Router		
Brand Name:	tp-link		
Model Name:	Archer BE550 Pro		
Tested By:	Yu Sunli Yu. Sunli	Date:	2024/11/20

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1 Operation Mode and Antenna Information

1.1 EUT Operation Mode

The Archer BE550 Pro is the Tri-band wireless router of 6 internal antennas, of which 1 were 2.4G & 5GL Dual-Band antennas and 2 were 2G antennas and 1 were 5G antennas and 2 were 6G antennas

1.2 Antenna Information

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

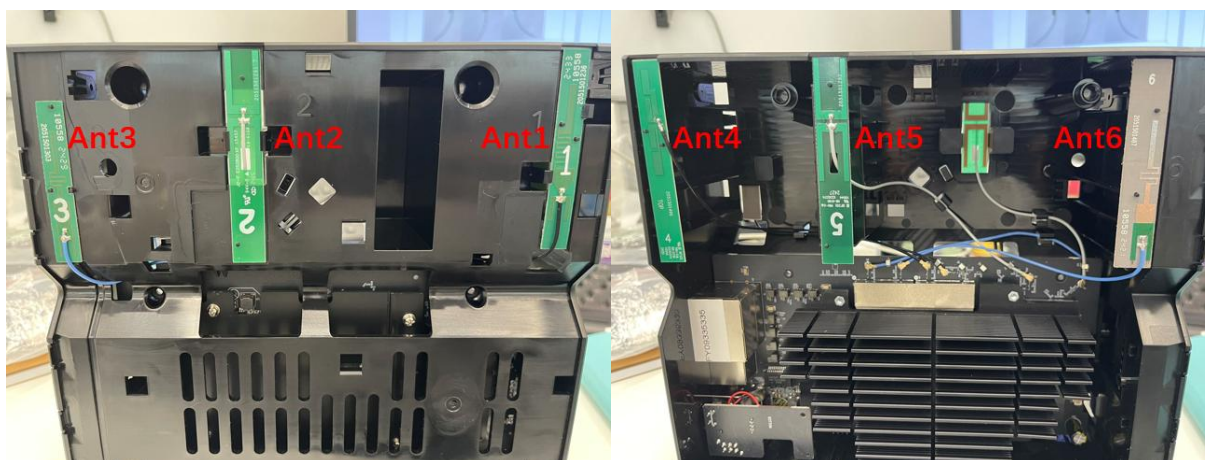


Figure 1- 1 Locations of Antennas

The Antenna Information was shown below:

Table 1- 1 Antenna Information

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

1.3 Test Frequency

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

Table 1- 2 Test Frequency

Frequency Band(MHz)	Test Frequency(MHz)
2400-2483.5	2450
5150-5250	5200

5250-5350	5300
5470-5725	5600
5725-5850	5800
5925-6425	6175
6425-6525	6475
6525-6875	6725
6875-7125	7025

2 Test System

2.1 Test Equipment

Table 2- 1Test System

Equipment	Model	Manufacturer	S/N	Cali. Interval	Cali. Due Date
Chamber	Rayzone2800	GTS	MY53470435	12months	2025/04/15
Vector Network Analyzer	E5071C	Keysight	MY46315238	24months	2026/05/27

2.2 Test Software

Table 2- 2 Test Software

Software	Version	Function
GTS MaxSign100	V2.1	Passive Antenna Measurements

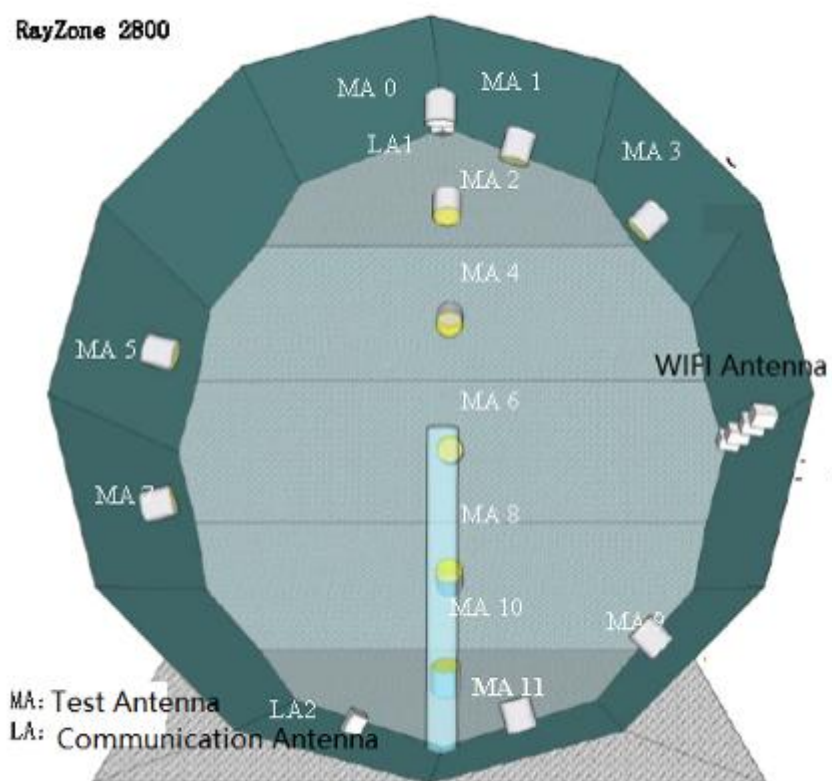


Figure 3-2 Antenna anechoic chamber for near-field measurement

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

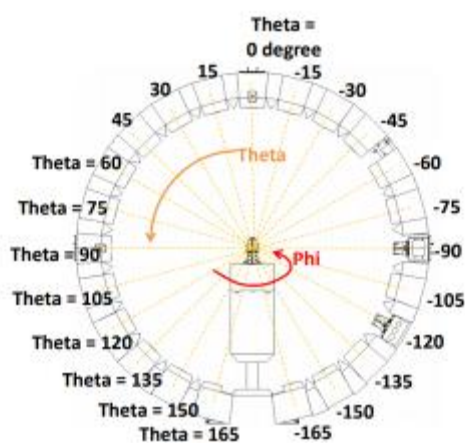


Figure 3-3 System diagram

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

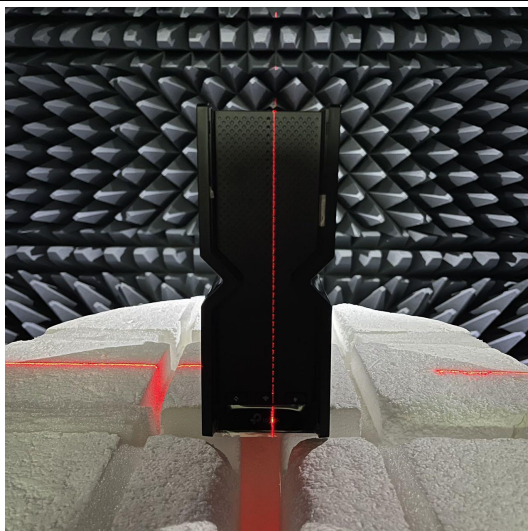


Figure 3-4 Antennas measurement diagram

Table 3- 1 Calibration information

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

3.2 Measurement Quantity

In this measurement experiment, the Directional Gain was measured at a certain frequency interval within the whole frequency range. The measurement frequency interval of the 2.4G antennas was 10MHz, while the 5G and 6G antennas was 50MHz.

3.3 Test Method

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

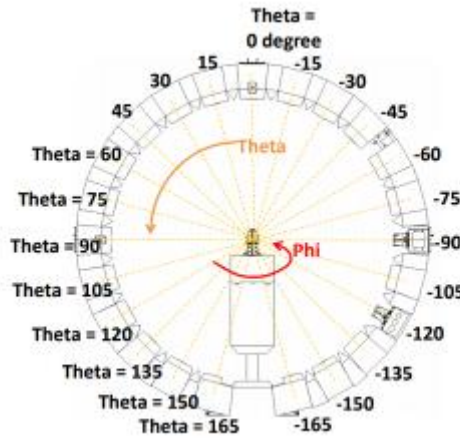


Figure 3-5 Test angle

3.4 Directional Gain Calculations

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

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

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

Where

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

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

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

G_k is the gain in dBi of the kth antenna .

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

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

3.5 Test Procedure

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

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

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

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

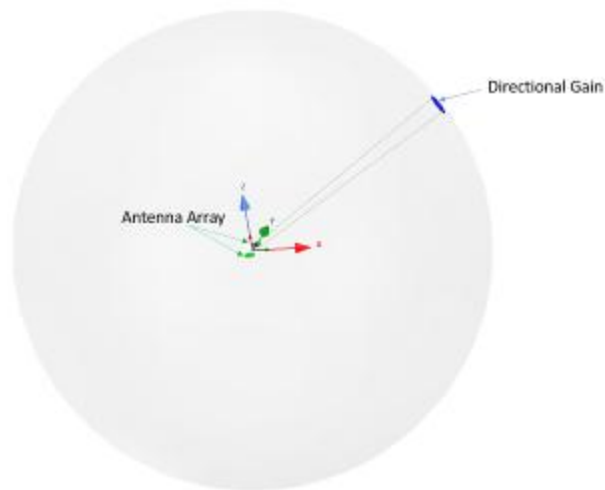


Figure 3- 6 Directional Gain Calculation Sketch Map

4 Measured Value and Maximum Gain Positions

4.1 Antenna Number

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

Table 4- 1 Antennas number

Antenna Number	Antenna Position		
	2G	5G	6G
Ant1	Ant2	Ant1	Ant3
Ant2	Ant4	Ant4	Ant6
Ant3	Ant5		

4.2 2G

4.2.1 DG_1SS Max Value Position

Table 4- 2 DG_1SS Max Value Position

Frequency(GHz)	2.45
Ant1(dBi)	2.70
Ant2(dBi)	4.55
Ant3(dBi)	1.40
Polarization	Theta
Φ (°)	225
θ (°)	90

4.2.2 DG_1SS Max Value Position Calculation

Table 4- 3 DG_1SS Max Value Position Calculation

Frequency(GHz)	2.45
Ant1[$10^{(G/20)}$]	$10^{(2.70/20)}$
Ant2[$10^{(G/20)}$]	$10^{(4.55/20)}$
Ant3[$10^{(G/20)}$]	$10^{(1.40/20)}$
Ant1[$10^{(G/20)}$] value	1.365
Ant2[$10^{(G/20)}$] value	1.688
Ant3[$10^{(G/20)}$] value	1.175
Sum of Ants Value(Antmax)	4.228
DG[$10 * \log(Antmax^2/Nant)$] (dBi)	7.75

4.2.3 DG_3SS Max Value Position

Table 4- 4 DG_3SS Max Value Position

Frequency(GHz)	2.45
Ant1(dBi)	2.70
Ant2(dBi)	4.55
Ant3(dBi)	1.40
Polarization	Theta
Φ (°)	225
θ (°)	90

4.2.4 DG_3SS Max Value Position Calculation

Table 4- 5 DG_3SS Max Value Position Calculation

Frequency(GHz)	2.45
Ant1[$10^{(G/10)}$]	$10^{(2.70/10)}$
Ant2[$10^{(G/10)}$]	$10^{(4.55/10)}$
Ant3[$10^{(G/10)}$]	$10^{(1.40/10)}$
Ant1[$10^{(G/10)}$] value	1.862
Ant2[$10^{(G/10)}$] value	2.851
Ant3[$10^{(G/10)}$] value	1.380
Sum of Ants Value(Antmax)	6.093
DG[$10 \cdot \log(\text{Antmax}/N_{\text{ant}})$] (dBi)	3.08

4.3 5G

4.3.1 DG_1SS Max Value Position

Table 4- 6 DG_1SS Max Value Position

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1(dBi)	7.07	7.39	6.21	4.62
Ant2(dBi)	4.66	4.42	2.89	2.67
Polarization	Theta	Theta	Theta	Theta
Φ (°)	105	90	105	120
θ (°)	90	90	75	75

4.3.2 DG_1SS Max Value Position Calculation

Table 4- 7 DG_1SS Max Value Position Calculation

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1[$10^{(G/20)}$]	$10^{(7.07/20)}$	$10^{(7.39/20)}$	$10^{(6.21/20)}$	$10^{(4.62/20)}$

Ant2[10^{^(G/20)}]	10 ^{^(4.66/20)}	10 ^{^(4.42/20)}	10 ^{^(2.89/20)}	10 ^{^(2.67/20)}
Ant1[10^{^(G/20)}] value	2.257	2.342	2.044	1.702
Ant2[10^{^(G/20)}] value	1.710	1.663	1.395	1.360
Sum of Ants Value(Antmax)	3.967	4.005	3.439	3.062
DG[10*Log(Antmax²/Nant)] (dBi)	8.96	9.04	7.72	6.71

4.3.3 DG_2SS Max Value Position

Table 4- 8 DG_2SS Max Value Position

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1(dBi)	8.23	7.39	6.21	6.22
Ant2(dBi)	1.70	4.42	2.89	-0.63
Polarization	Theta	Theta	Theta	Theta
Φ (°)	75	90	105	270
θ (°)	90	90	75	90

4.3.4 DG_2SS Max Value Position Calculation

Table 4- 9 DG_2SS Max Value Position Calculation

Frequency(GHz)	5.20	5.30	5.60	5.80
Ant1[10^{^(G/10)}]	10 ^{^(8.23/10)}	10 ^{^(7.39/10)}	10 ^{^(6.21/10)}	10 ^{^(6.22/10)}
Ant2[10^{^(G/10)}]	10 ^{^(1.70/10)}	10 ^{^(4.42/10)}	10 ^{^(2.89/10)}	10 ^{^(-0.63/10)}
Ant1[10^{^(G/10)}] value	6.653	5.482	4.178	4.188
Ant2[10^{^(G/10)}] value	1.479	2.767	1.945	0.865
Sum of Ants Value(Antmax)	8.132	8.249	6.123	5.053
DG[10*Log(Antmax/Nant)] (dBi)	6.09	6.15	4.86	4.03

4.4 6G

4.4.1 DG_1SS Max Value Position

Table 4- 6 DG_1SS Max Value Position

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1(dBi)	3.24	5.61	6.32	4.17
Ant2(dBi)	5.59	4.50	1.95	2.10
Polarization	Theta	Theta	Theta	Theta
Φ (°)	255	255	270	285
θ (°)	90	90	90	90

4.4.2 DG_1SS Max Value Position Calculation

Table 4- 7 DG_1SS Max Value Position Calculation

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1[10 ^{^(G/20)}]	$10^{(3.24/20)}$	$10^{(5.61/20)}$	$10^{(6.32/20)}$	$10^{(4.17/20)}$
Ant2[10 ^{^(G/20)}]	$10^{(5.59/20)}$	$10^{(4.50/20)}$	$10^{(1.95/20)}$	$10^{(2.10/20)}$
Ant1[10 ^{^(G/20)}] value	1.452	1.908	2.070	1.616
Ant2[10 ^{^(G/20)}] value	1.903	1.679	1.252	1.274
Sum of Ants Value(Antmax)	3.355	3.587	3.322	2.890
DG[10*Log(Antmax ² /Nant)] (dBi)	7.50	8.08	7.42	6.21

4.4.3 DG_2SS Max Value Position

Table 4- 8 DG_2SS Max Value Position

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1(dBi)	3.24	5.61	6.32	4.17
Ant2(dBi)	5.59	4.50	1.95	2.10
Polarization	Theta	Theta	Theta	Theta
Φ (°)	255	255	270	285
θ (°)	90	90	90	90

4.4.4 DG_2SS Max Value Position Calculation

Table 4- 9 DG_2SS Max Value Position Calculation

Frequency(GHz)	6.175	6.475	6.725	7.025
Ant1[10 ^{^(G/10)}]	$10^{(3.24/10)}$	$10^{(5.61/10)}$	$10^{(6.32/10)}$	$10^{(4.17/10)}$
Ant2[10 ^{^(G/10)}]	$10^{(5.59/10)}$	$10^{(4.50/10)}$	$10^{(1.95/10)}$	$10^{(2.10/10)}$
Ant1[10 ^{^(G/10)}] value	2.109	3.639	4.285	2.612
Ant2[10 ^{^(G/10)}] value	3.622	2.818	1.567	1.622
Sum of Ants Value(Antmax)	5.731	6.457	5.852	4.234
DG[10*Log(Antmax/Nant)] (dBi)	4.57	5.09	4.66	3.26

5 Test and Calculate Result

5.1 Antenna Test Result

Table 5- 1 Antenna Test Result

Frequency(GHz)	2.45	5.20	5.30	5.60	5.80	6.175	6.475	6.725	7.025
Ant1 MaxGain(dBi)	5.34	8.23	7.84	7.05	6.22	5.44	5.95	6.32	4.79
Ant2 MaxGain(dBi)	4.55	4.92	4.42	5.13	4.03	5.59	4.54	4.15	3.71
Ant3 MaxGain(dBi)	3.16								

Ant1 Polarization/ Φ (°) / θ (°)	Theta/ 210/105	Theta/ 75/90	Theta/ 90/90	Theta/ 270/90	Theta/ 270/90	Theta/ 270/90	Theta/ 285/90	Theta/ 270/90	Theta/ 270/90
Ant2 Polarization/ Φ (°) / θ (°)	Theta/ 225/90	Theta/ 165/90	Theta/ 75/90	Theta/ 90/90	Theta/ 120/90	Theta/ 255/90	Theta/ 240/90	Theta/ 120/90	Theta/ 330/90
Ant3 Polarization/ Φ (°) / θ (°)	Theta/ 225/105								
Max Gain(dBi)	5.34	8.23	7.84	7.05	6.22	5.59	5.95	6.32	4.79

5.2 Directional Gain Calculate Result

Table 5- 2Test & Calculate Result

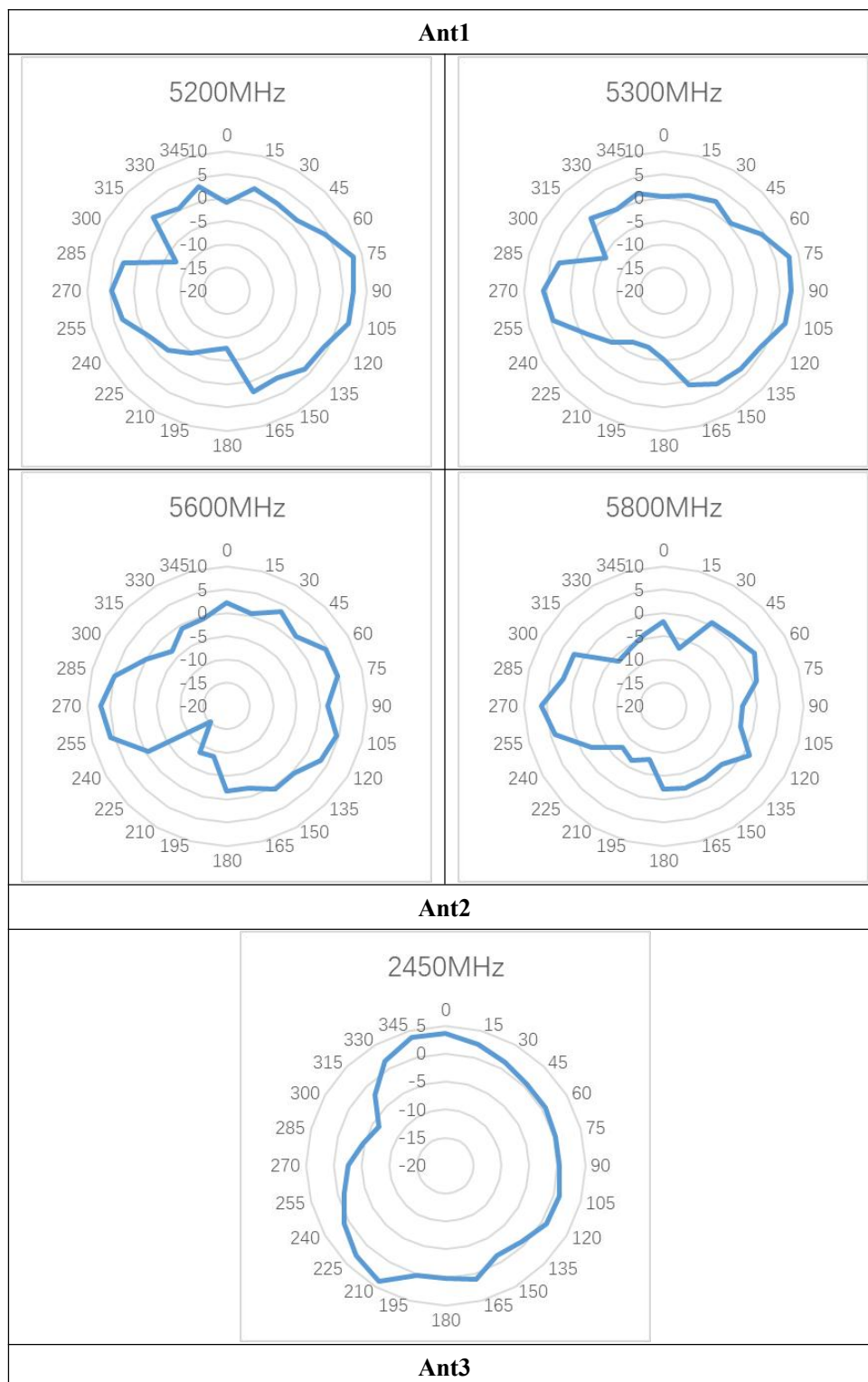
Frequency Band(MHz)	Max Antenna Gain	Max Composite Gain	NSS	Polarization/ Φ (°) / θ (°)
2400-2483.5(2450)	5.34	7.75	1	Theta/225/90
5150-5250(5200)	8.23	8.96	1	Theta/105/90
5250-5350(5300)	7.84	9.04	1	Theta/90/90
5470-5725(5600)	7.05	7.72	1	Theta/105/90
5725-5850(5800)	6.22	6.71	1	Theta/120/75
5925-6425(6175)	5.59	7.50	1	Theta/255/90
6425-6525(6475)	5.95	8.08	1	Theta/255/90
6525-6875(6725)	6.32	7.42	1	Theta/270/90
6875-7125(7025)	4.79	6.21	1	Theta/285/90

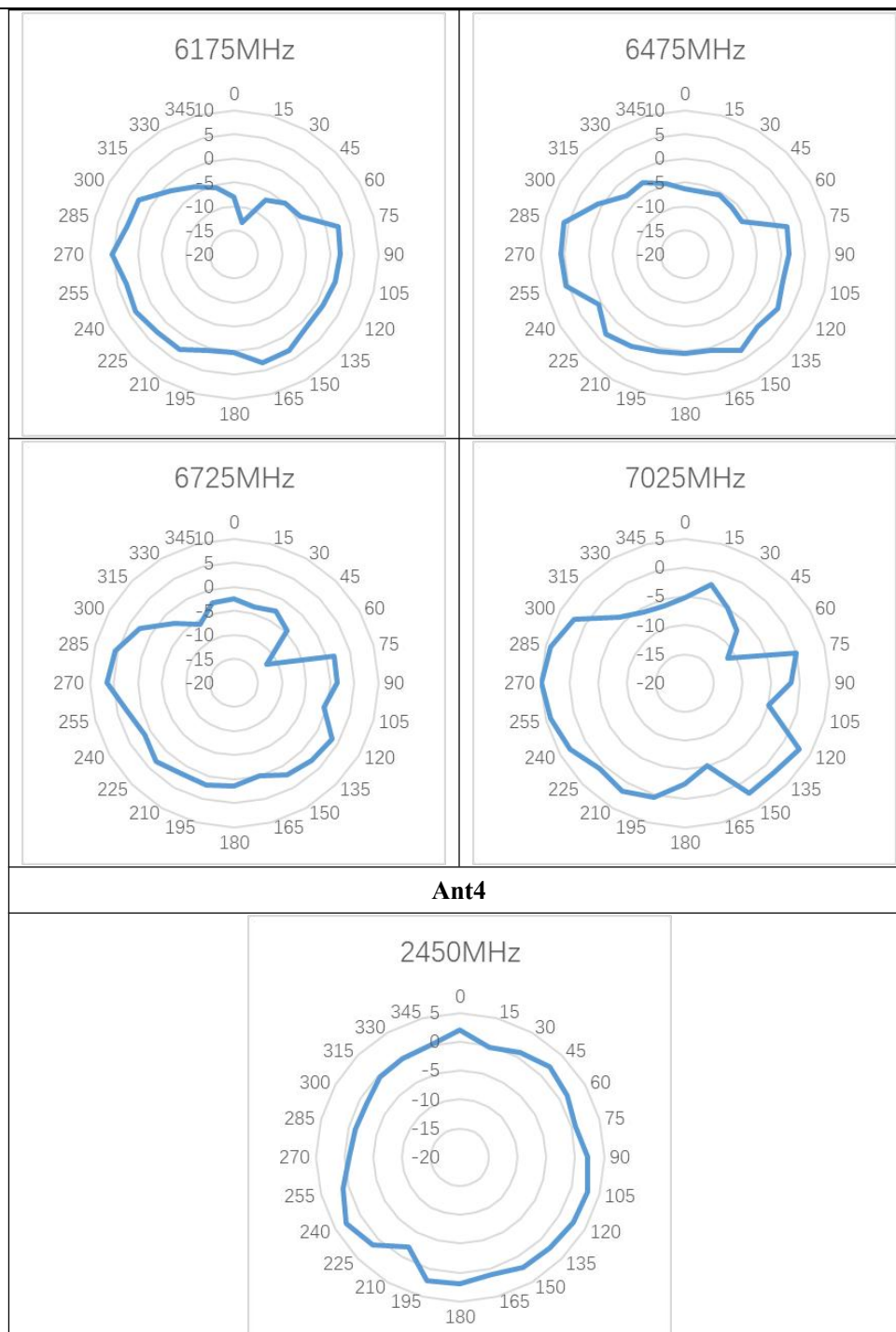
Table 5- 3Test & Calculate Result

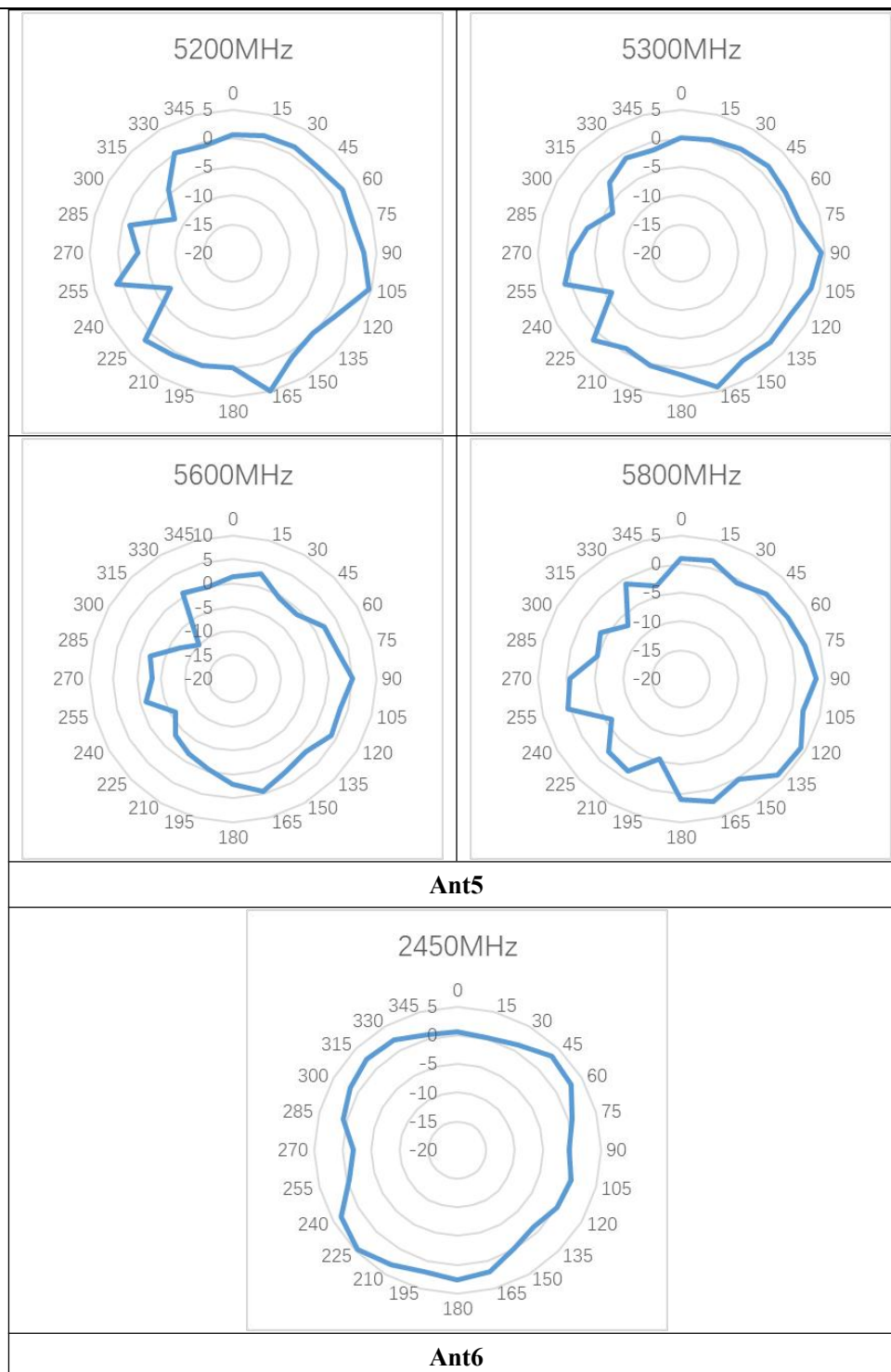
Frequency Band(MHz)	Max Antenna Gain	Max Directional Gain	NSS	Polarization/ Φ (°) / θ (°)
2400-2483.5(2450)	5.34	3.08	3	Theta/225/90
5150-5250(5200)	8.23	6.09	2	Theta/75/90
5250-5350(5300)	7.84	6.15	2	Theta/90/90
5470-5725(5600)	7.05	4.86	2	Theta/105/75
5725-5850(5800)	6.22	4.03	2	Theta/270/90
5925-6425(6175)	5.59	4.57	2	Theta/255/90
6425-6525(6475)	5.95	5.09	2	Theta/255/90
6525-6875(6725)	6.32	4.66	2	Theta/270/90
6875-7125(7025)	4.79	3.26	2	Theta/285/90

6 Test Pattern

6.1 Antenna Pattern









7 Test Pattern

Ant2													
Freq	2450												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-10.48	-6.85	-4.85	-3.75	-1.99	1.38	3.66	1.37	-1.55	-2.18	-8.36	-8.53	-12.91
15.00	-10.19	-6.7	-4.14	-2.9	-1.24	1.53	2.44	0.84	-3.22	-2.19	-5.78	-8.78	-12.91
30.00	-10.2	-6.74	-3.97	-3.41	-0.74	1.04	1.4	0.9	-3.18	-2.7	-3.57	-9.34	-12.91
45.00	-10.21	-6.85	-3.99	-5.01	-2.26	0.78	0.56	-0.37	-2.26	-2.78	-2.85	-10.63	-12.91
60.00	-10.22	-7.24	-4.05	-4.97	-4.31	0.52	0.61	0.32	-2.28	-3.31	-3.48	-11.8	-12.91
75.00	-10.29	-7.67	-3.97	-4.57	-4.54	-0.58	0.32	0.05	-2.95	-4.48	-5.77	-12.72	-12.91
90.00	-10.33	-8.21	-3.87	-4.59	-4.48	-1.07	0.45	-0.37	-3.93	-5.99	-10.24	-12.91	-12.91
105.00	-9.91	-9.01	-3.95	-4.48	-4.19	-0.93	1.05	0.32	-3.41	-5.7	-13.73	-12.01	-12.91
120.00	-9.36	-10.42	-4.29	-3.55	-3.88	-1.26	0.94	0.45	-2.53	-4.65	-10.26	-11.11	-12.91
135.00	-9.07	-12.5	-4.51	-1.84	-3.16	-2.02	-0.83	-0.91	-2.07	-3.99	-8.26	-9.43	-12.91
150.00	-9.1	-14.73	-4.58	-0.23	-0.51	-1.57	-1.44	-1.41	-1.2	-3.52	-7.64	-8.14	-12.91
165.00	-9.21	-14.51	-4.72	0.56	1.46	1.44	1.12	0.54	0.44	-2.78	-7.42	-7.31	-12.91
180.00	-9.36	-11.49	-5.32	-0.56	0.41	1.73	0.22	1.51	2.28	-0.45	-6.13	-6.01	-12.91
195.00	-9.35	-8.88	-5.32	-3.36	-2.47	-0.8	0.3	4.19	4.15	0.92	-4.21	-5.26	-12.91
210.00	-9.25	-7.41	-4.75	-3.95	-1.52	1.13	3.83	5.34	4.31	1.74	-2.7	-5.06	-12.91
225.00	-9.33	-6.75	-4.5	-2.67	0	1.81	2.7	3.7	2.92	0.86	-2.35	-5.13	-12.91

240.00	-9.53	-6.48	-4.41	-1.85	-0.66	-0.1	0.99	0.28	-1.36	-0.85	-2.77	-5.64	-12.91
255.00	-9.55	-6.42	-4.35	-1.49	-1.5	-0.92	-1.28	-3.6	-3.96	-2.47	-3.65	-6.96	-12.91
270.00	-9.48	-6.56	-4.44	-1.11	-1.92	-2.13	-2.59	-6.34	-7.05	-5.14	-5.7	-9.21	-12.91
285.00	-9.59	-6.79	-4.69	-1.1	-2.61	-4.33	-4.67	-11.42	-8.84	-6.81	-8.81	-11.25	-12.91
300.00	-10.06	-7.03	-5.29	-1.7	-4.18	-6.14	-6.16	-7.4	-3.28	-4.04	-9.01	-10.83	-12.91
315.00	-10.56	-7.21	-6.07	-2.83	-5.46	-4.4	-2.12	-3.19	-0.89	-1.59	-5.57	-8.85	-12.91
330.00	-10.79	-7.23	-6.35	-4	-3.45	-0.74	1.59	0.54	0.48	-0.96	-4.14	-7.68	-12.91
345.00	-10.73	-7.07	-5.77	-4.31	-2.41	2.02	3.71	1.6	1.09	-1.18	-5.68	-7.8	-12.91

Ant4													
Freq	2450												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-10.8	-10.33	-8.2	-2.85	-0.39	1.03	0.64	1.93	-2.47	-8.24	-1.48	-4.2	-12.44
15.00	-10.89	-11.09	-8.37	-3.52	-0.7	0.3	0.28	2.26	-1.25	-5.35	-1.97	-4.07	-12.44
30.00	-10.83	-11.74	-6.45	-2.13	-0.94	-0.7	1.08	0.96	-0.63	-2.06	-1.59	-3.2	-12.44
45.00	-10.65	-11.64	-3.73	0.34	0.2	0.53	3.16	0.66	0.09	-0.28	-2.1	-3.15	-12.44
60.00	-10.35	-10.57	-2.38	1.45	1.03	1.92	2.94	1.02	1.18	-1.54	-3.56	-3.66	-12.44
75.00	-10.2	-9.68	-2.51	0.4	-0.02	1.09	0.7	0.88	0.13	-4.58	-4.92	-4.19	-12.44
90.00	-10.45	-9.26	-3.64	-1.85	-2.19	0.76	-0.51	0.86	-2.67	-5.16	-5.45	-5.39	-12.44
105.00	-10.8	-8.89	-4.46	-3.69	-3.6	0.51	0.49	-0.22	-2.98	-8.14	-5.91	-7.44	-12.44
120.00	-10.84	-8.47	-4.04	-3.31	-4.56	0.21	0.06	-1.9	-2.01	-7.34	-6.49	-7.18	-12.44
135.00	-10.75	-8.09	-2.87	-2.17	-4.78	-0.45	-1.13	-0.41	-3.47	-7.09	-7.17	-7.22	-12.44
150.00	-10.51	-8	-2.03	-1.73	-5.43	-1.12	-0.21	0.15	-6.89	-5.49	-4.91	-6.13	-12.44
165.00	-10.49	-8.15	-2.28	-1.63	-4.46	-1.08	2.04	1.59	-6.1	-2.81	-1.97	-3.73	-12.44
180.00	-10.76	-8.29	-4.15	-1.68	-2.84	0.54	2.73	2.12	-7.52	-3.2	-2.09	-2.49	-12.44
195.00	-11.01	-8.29	-5.61	-3.83	-1.09	0.66	1.89	0.86	-7.06	-5.75	-4.32	-3.42	-12.44
210.00	-11.06	-8.54	-5.31	-3.8	-1.65	1.81	3.04	1.27	-5.79	-5.77	-12	-9.4	-12.44
225.00	-11.16	-9.18	-4.93	-2.44	-2.71	1.93	4.55	1.26	-4.41	-3.11	-5.51	-12.44	-12.44
240.00	-11.31	-10.14	-4.38	-0.84	-4.03	-1.12	3.42	0.85	-2.53	-1.97	-3.01	-4.51	-12.44
255.00	-11.08	-10.97	-3.93	0.06	-2.01	-6.92	-0.5	-1.15	-2.86	-2.83	-2.17	-2.42	-12.44
270.00	-11.14	-11.44	-4.01	0.01	0.22	-2.02	-1.85	-3.91	-3.29	-3.43	-3	-2.13	-12.44
285.00	-11.11	-11.75	-4.68	-0.4	0.99	0.8	0.52	-3.63	-3.54	-2.03	-4.31	-2.39	-12.44
300.00	-11.05	-11.34	-5.63	-0.8	0.86	1.54	1.62	-1.71	-3.14	-1.96	-4.08	-2.71	-12.44
315.00	-11.05	-10.6	-6.28	-0.83	0.87	2.31	2.38	-0.04	-2.16	-3.93	-2.98	-2.95	-12.44
330.00	-11.12	-10.08	-6.57	-0.59	1.33	3.15	2.2	1.16	-2.03	-9.03	-2.1	-3.11	-12.44
345.00	-10.75	-9.97	-7.3	-1.2	0.96	2.6	0.87	0.95	-2.27	-11.28	-1.57	-3.49	-12.44

Ant5													
Freq	2450												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-8.25	-6.23	-5.56	-5	-4.37	-0.32	2.06	1.78	-0.44	-0.9	-4.19	-8.08	-13.36
15.00	-8.72	-6.77	-5.94	-5.85	-4.98	-1.86	-0.31	1.23	-2.2	-2.77	-4.21	-8.13	-13.36

30.00	-8.99	-7.5	-4.67	-3.28	-2.89	0.02	0.87	0.17	-2.19	-4.52	-6.5	-7.57	-13.36
45.00	-8.55	-8.38	-4.44	-2.04	-2.2	-0.08	2.13	2.79	1.25	-0.43	-4.74	-6.82	-13.36
60.00	-8.11	-9.41	-5.81	-2.85	-1.98	-1.09	1.49	1.37	1.64	1.34	-2.57	-6.57	-13.36
75.00	-7.9	-10.75	-7.18	-2.06	-0.08	0.83	0.69	-0.11	-0.72	0.72	-2	-6.14	-13.36
90.00	-8.21	-12.04	-7.12	-1.4	0.47	2.74	2.13	-0.89	-3.92	-1.26	-2.99	-6.13	-13.36
105.00	-8.32	-11.99	-6.44	-1.7	-0.37	2.89	2.9	0.43	-6.96	-4.61	-4.74	-8.21	-13.36
120.00	-8.21	-11.04	-5.51	-1.57	-1.35	1.95	2.77	1.05	-6.81	-5.78	-8.65	-13.36	-13.36
135.00	-8.02	-10.09	-4.65	-0.96	-0.67	1.32	2.15	0.67	-5.44	-4.76	-11.96	-13.28	-13.36
150.00	-8.11	-8.86	-4.47	-1.62	-0.15	0.93	2.05	0.46	-4.46	-3.19	-10.4	-11.1	-13.36
165.00	-8.05	-8.28	-4.82	-2.84	-1.93	-0.48	1.05	0.1	-1.03	-3.54	-10.04	-10.37	-13.36
180.00	-8.14	-8.49	-5.48	-3.1	-2.99	0.07	1.89	2.39	-0.85	-4.14	-6.83	-8.79	-13.36
195.00	-8.01	-8.81	-6.43	-3.59	-2.57	1.21	2.09	0.38	-2.24	-1.09	-4.86	-8.18	-13.36
210.00	-8.24	-8.37	-6.91	-6.23	-5.46	-2.5	-2.03	-0.23	1.06	1.1	-2.88	-6.79	-13.36
225.00	-8.83	-7.83	-7.66	-13.86	-5.24	-1.31	1.4	3.16	2.71	0.68	-3.92	-5.99	-13.36
240.00	-8.88	-8.22	-8.05	-9.03	-0.95	1.68	2.84	2.6	0.38	-2.97	-8.81	-7.37	-13.36
255.00	-8.37	-8.86	-6.86	-4.66	0.2	1.56	0.95	-1.19	-4.55	-7.6	-13.96	-9.56	-13.36
270.00	-8.18	-8.82	-5.47	-3.16	-0.88	-0.47	-0.74	-3.93	-8.32	-10.97	-13.92	-10.17	-13.36
285.00	-8.38	-8.09	-4.43	-3.24	-3.34	-2.25	-1.32	-2.64	-3.96	-6.63	-8.83	-9.1	-13.36
300.00	-9.02	-7.06	-3.96	-4.14	-5.08	-3.22	-1.39	-2.77	-3.32	-3.17	-4.07	-7.93	-13.36
315.00	-9.47	-6.13	-4.15	-4.87	-4.45	-3.36	-0.27	-1.9	-4.03	-1.11	-2.5	-7.49	-13.36
330.00	-8.88	-5.7	-4.41	-5.26	-4.66	-1.85	-0.21	1.32	-2.28	-3.74	-4.57	-8.17	-13.36
345.00	-8.21	-5.8	-4.53	-4.79	-4.95	-0.16	0.11	0.09	-1.4	-3.96	-6.14	-8.45	-13.36

2450MHz Composite Gain (1SS)													
Freq	2450												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-5.00	-2.85	-1.32	0.95	2.67	5.50	6.98	6.47	3.32	1.54	0.54	-1.94	-8.12
15.00	-5.11	-3.19	-1.21	0.77	2.66	4.87	5.66	6.24	2.59	1.44	0.93	-1.96	-8.12
30.00	-5.20	-3.63	-0.20	1.85	3.30	4.92	5.89	5.46	2.84	1.74	1.11	-1.54	-8.12
45.00	-4.98	-3.96	0.72	2.81	3.43	5.19	6.79	5.90	4.58	3.68	1.61	-1.57	-8.12
60.00	-4.73	-4.19	0.80	3.07	3.29	5.31	6.50	5.69	5.12	3.82	1.58	-1.96	-8.12
75.00	-4.62	-4.50	0.43	2.93	3.47	5.25	5.34	5.06	3.69	2.36	0.70	-2.22	-8.12
90.00	-4.83	-4.92	0.03	2.27	2.94	5.72	5.53	4.67	1.29	0.89	-0.96	-2.78	-8.12
105.00	-4.84	-5.08	-0.11	1.56	2.22	5.74	6.31	4.95	0.50	-1.26	-2.55	-4.23	-8.12
120.00	-4.63	-5.14	0.18	2.01	1.62	5.17	6.10	4.73	1.24	-1.08	-3.56	-5.40	-8.12
135.00	-4.44	-5.27	0.80	3.13	2.07	4.50	4.97	4.58	1.22	-0.41	-4.13	-4.86	-8.12
150.00	-4.41	-5.29	1.16	3.61	3.05	4.25	5.03	4.54	0.90	0.76	-2.59	-3.45	-8.12
165.00	-4.42	-5.08	0.91	3.58	3.47	4.80	6.19	5.54	2.96	1.73	-1.04	-1.94	-8.12
180.00	-4.58	-4.53	-0.19	3.05	3.11	5.58	6.45	6.79	3.62	2.32	0.02	-0.61	-8.12
195.00	-4.60	-3.88	-1.00	1.18	2.75	5.17	6.23	6.75	4.26	3.22	0.31	-0.63	-8.12
210.00	-4.67	-3.32	-0.84	0.18	2.08	5.11	6.74	7.23	5.56	4.39	-0.15	-2.13	-8.12
225.00	-4.95	-3.09	-0.82	-0.20	2.38	5.71	7.75	7.54	5.78	4.43	0.94	-2.53	-8.12

240.00	-5.08	-3.38	-0.68	1.55	3.02	5.00	7.25	6.07	3.68	2.88	0.32	-0.99	-8.12
255.00	-4.83	-3.78	-0.18	2.96	3.72	3.35	4.54	2.86	1.01	0.76	-0.49	-1.03	-8.12
270.00	-4.75	-3.94	0.15	3.45	3.96	3.26	3.08	0.12	-1.18	-1.19	-1.68	-1.61	-8.12
285.00	-4.85	-3.86	0.17	3.27	3.33	3.10	3.20	-0.34	-0.37	-0.09	-2.27	-1.95	-8.12
300.00	-5.23	-3.48	-0.16	2.67	2.38	2.75	3.36	1.14	1.52	1.76	-0.66	-1.72	-8.12
315.00	-5.56	-3.01	-0.67	2.08	2.23	3.48	4.97	3.16	2.51	2.65	1.19	-1.28	-8.12
330.00	-5.43	-2.71	-0.95	1.72	2.91	5.23	6.02	5.78	3.59	0.80	1.24	-1.24	-8.12
345.00	-5.04	-2.67	-1.02	1.49	2.98	6.34	6.48	5.67	4.03	0.24	0.56	-1.52	-8.12

2450MHz Composite Gain (3SS)													
Freq	2450												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-9.69	-7.47	-5.98	-3.78	-1.96	0.76	2.29	1.70	-1.41	-2.82	-3.84	-6.47	-12.89
15.00	-9.84	-7.76	-5.82	-3.92	-1.94	0.21	0.97	1.49	-2.15	-3.24	-3.70	-6.46	-12.89
30.00	-9.94	-8.18	-4.91	-2.90	-1.42	0.18	1.12	0.69	-1.87	-2.97	-3.45	-5.91	-12.89
45.00	-9.71	-8.54	-4.04	-1.71	-1.26	0.42	2.08	1.23	-0.07	-1.02	-3.09	-5.86	-12.89
60.00	-9.43	-8.85	-3.86	-1.28	-1.21	0.62	1.79	0.92	0.50	-0.74	-3.18	-6.22	-12.89
75.00	-9.32	-9.17	-4.15	-1.62	-1.10	0.51	0.57	0.30	-1.00	-2.02	-3.92	-6.46	-12.89
90.00	-9.54	-9.56	-4.61	-2.40	-1.60	1.09	0.83	-0.07	-3.47	-3.62	-5.32	-7.11	-12.89
105.00	-9.55	-9.75	-4.82	-3.13	-2.38	1.11	1.61	0.19	-4.12	-5.91	-6.75	-8.81	-12.89
120.00	-9.34	-9.83	-4.57	-2.72	-3.03	0.50	1.41	0.04	-3.32	-5.79	-8.19	-9.79	-12.89
135.00	-9.14	-9.87	-3.93	-1.63	-2.54	-0.17	0.33	-0.17	-3.45	-5.09	-8.70	-9.32	-12.89
150.00	-9.13	-9.69	-3.53	-1.14	-1.46	-0.44	0.38	-0.19	-3.56	-3.95	-7.09	-8.01	-12.89
165.00	-9.14	-9.49	-3.77	-1.07	-0.97	0.10	1.43	0.79	-1.47	-3.03	-5.15	-6.31	-12.89
180.00	-9.29	-9.20	-4.94	-1.66	-1.51	0.84	1.73	2.02	-0.47	-2.30	-4.48	-5.01	-12.89
195.00	-9.29	-8.65	-5.76	-3.59	-1.99	0.44	1.50	2.16	0.54	-1.19	-4.45	-5.21	-12.89
210.00	-9.37	-8.08	-5.56	-4.53	-2.54	0.51	2.27	2.79	1.50	0.07	-4.30	-6.74	-12.89
225.00	-9.66	-7.81	-5.49	-4.16	-2.13	1.05	3.08	2.83	1.45	-0.18	-3.74	-6.88	-12.89
240.00	-9.79	-8.03	-5.31	-2.72	-1.64	0.31	2.53	1.36	-1.00	-1.84	-4.13	-5.69	-12.89
255.00	-9.53	-8.36	-4.87	-1.62	-1.00	-0.89	-0.18	-1.84	-3.73	-3.76	-4.44	-5.30	-12.89
270.00	-9.43	-8.50	-4.60	-1.23	-0.77	-1.47	-1.66	-4.59	-5.67	-5.53	-5.68	-5.59	-12.89
285.00	-9.55	-8.42	-4.60	-1.42	-1.22	-1.41	-1.33	-4.56	-4.88	-4.55	-6.76	-5.88	-12.89
300.00	-9.96	-8.07	-4.90	-2.00	-1.96	-1.46	-0.93	-3.36	-3.25	-2.97	-5.19	-5.85	-12.89
315.00	-10.31	-7.60	-5.39	-2.54	-2.06	-0.75	0.39	-1.52	-2.17	-2.05	-3.49	-5.66	-12.89
330.00	-10.15	-7.32	-5.66	-2.82	-1.44	0.75	1.31	1.02	-1.09	-3.47	-3.46	-5.68	-12.89
345.00	-9.72	-7.29	-5.72	-3.12	-1.46	1.64	1.85	0.92	-0.62	-3.84	-3.94	-5.98	-12.89

Ant1													
Freq	5200.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-16.02	-20.31	-9.84	-16.3	-6.52	-3.56	-0.9	-1.29	-4.74	-5.07	-4.49	-5.98	-15.25
15.00	-17.02	-19.06	-13.08	-5.37	-0.27	2.42	2.67	0.53	-8.03	-7.26	-4.35	-6.2	-15.25
30.00	-16.81	-14.18	-7.08	-3.32	-9.34	-2	1.67	-0.93	-4.97	-7.9	-10.84	-8.86	-15.25

45.00	-17.43	-10.9	-7.77	-8.76	-2.97	1.98	1.38	-2.15	-3.72	-7.18	-9.69	-10.36	-15.25
60.00	-17.54	-9.83	-11.75	-8.11	-0.96	2.37	4.33	0.61	-3.68	-8.81	-10.55	-11.68	-15.25
75.00	-17.09	-8.97	-13.37	-7.69	-4.1	5.12	8.23	5.66	1	-5.26	-7.88	-15.25	-15.25
90.00	-17.84	-9.01	-12.47	-9.73	-6.05	5.23	7.16	5.17	0.43	-4.04	-6.74	-14.03	-15.25
105.00	-18.05	-9.49	-12.83	-11.31	-3.11	3.58	7.07	5.4	-2.4	-7.85	-10.06	-12.28	-15.25
120.00	-16.84	-10.72	-12.1	-9.19	-2.85	0.91	3.93	2.29	-0.7	-9.48	-15.44	-9.37	-15.25
135.00	-17.08	-12.75	-10.86	-8.35	-0.43	4.88	3.74	1.77	-0.26	-5.01	-10.81	-8.37	-15.25
150.00	-17.58	-16.96	-10.98	-8.3	-4.46	0.37	1.5	0.07	-1.79	-1.51	-9.34	-12.18	-15.25
165.00	-18.37	-27.45	-10.84	-5.13	-0.42	2.04	2.45	-0.5	-3.93	-4.67	-9.43	-7.51	-15.25
180.00	-19.38	-16.4	-11.42	-6.55	-12.42	-4.16	-7.74	-7.98	-6.78	-3.78	-12.66	-6.1	-15.25
195.00	-19.94	-12.84	-13.41	-7.91	-5.34	-3.76	-6.74	-2.85	-8.23	-11.32	-16.3	-5.84	-15.25
210.00	-18.14	-11.17	-7.93	-7.1	-6.55	-3.2	-4.53	-7.5	-5.69	-8.22	-10.78	-4.77	-15.25
225.00	-16.62	-10.43	-6.66	-4.99	-7.09	-4.51	-2.06	-4.8	-7.84	-6.72	-8.76	-6.97	-15.25
240.00	-16.48	-10.59	-5.43	0.5	0.88	-0.07	-0.73	-5.26	-11.26	-13.58	-12.03	-8.48	-15.25
255.00	-15.89	-11.21	-4.7	1.15	-1.26	-1.34	3.23	-0.05	-4.77	-11.2	-15.54	-5.69	-15.25
270.00	-16.97	-11.44	-3.76	0.24	0.12	3.05	4.62	0.66	-3.88	-6.66	-17.9	-6.22	-15.25
285.00	-18.44	-12.06	-3.05	0.36	0.46	3.57	3.06	-2.07	-2.12	-9.57	-10.4	-8.72	-15.25
300.00	-18.09	-12.07	-5.32	-0.99	-2.17	-5.03	-7.46	-4.65	-2.9	-8.5	-4.4	-9.24	-15.25
315.00	-16.92	-11.93	-12.08	-8.42	-3.11	2.21	2.28	-1.24	-5.04	-8.66	-3.63	-9.1	-15.25
330.00	-16.45	-13	-15.74	-12.33	-4.97	-0.81	0.56	-0.66	-3.31	-6.24	-9.53	-4.8	-15.25
345.00	-15.12	-15.49	-8.32	-9.09	-3.1	1.26	3.3	1.11	-4.28	-7.71	-4.75	-3.36	-15.25

Ant4													
Freq	5200.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-13.12	-13.29	-10.75	-8.21	-4.26	-1.46	0.65	1.8	-1.3	-2.76	-8.61	-6.47	-14.73
15.00	-12.26	-14.17	-8.74	-3.86	-3.5	-0.34	1.2	2.05	-0.02	-1.95	-5	-5.81	-14.73
30.00	-12.14	-13.31	-12.07	-3.07	-1.21	0.47	1.44	1.89	-0.24	-0.55	-6.4	-8.03	-14.73
45.00	-13.39	-12.69	-12.42	-6.45	-1.73	0.44	1.1	0.94	-1.96	-2.7	-7.54	-14.73	-14.73
60.00	-13.57	-12.74	-8.56	-5.98	-4.66	-0.62	2.12	0.78	-1.58	-4.75	-9.68	-13.53	-14.73
75.00	-12.94	-12.39	-8.33	-6.87	-2.46	0.96	1.7	2.35	0.26	-3.44	-5.33	-10.65	-14.73
90.00	-13.21	-12.41	-12.04	-5.38	-1.31	2.46	2.83	2.22	0.91	-2.08	-6.38	-8.75	-14.73
105.00	-12.41	-13.27	-12.95	-6.19	-2.12	3.59	4.66	4.14	2	-3.18	-6.76	-8.11	-14.73
120.00	-12.45	-13.54	-9.73	-7.4	-3.77	1.7	1.3	2.65	-0.39	-2.74	-6.63	-7.07	-14.73
135.00	-13.93	-12.61	-7	-7.09	-5.02	0.04	-0.3	-0.11	-3.61	-2.74	-4.85	-5.8	-14.73
150.00	-14.46	-10.71	-5.48	-4.99	-1.34	1.05	0.87	0.47	-1.09	-1.23	-6.3	-6.95	-14.73
165.00	-13.98	-9.13	-5.52	-3.49	-1.9	2.89	4.92	4.04	-3.02	-2.61	-5.65	-7.92	-14.73
180.00	-14.4	-9.91	-8.07	-7.01	-6.05	0.09	-0.02	-1	-4.21	-4.2	-6.62	-10.14	-14.73
195.00	-14.07	-15.78	-14.35	-8.15	-3.97	-2.5	0.34	-1.36	-4.67	-5.85	-8.75	-10.44	-14.73
210.00	-13.39	-16.52	-6.22	-5.32	-1.81	-1.26	0.55	1.02	-1.99	-3	-7.14	-8.91	-14.73
225.00	-13.64	-12.8	-5.63	-5.04	-4.13	-2.21	1.55	-1.16	-2.86	-0.46	-4.66	-8.7	-14.73
240.00	-14.24	-11.31	-13.97	-7.24	-2.77	-1.2	-7.55	-8.08	-2.89	-2.45	-8.08	-9.76	-14.73
255.00	-13.76	-11.81	-11.32	-4.51	-2.09	-2.52	0.95	2.33	-2.65	-5.51	-15.07	-10.62	-14.73

270.00	-14.28	-12.37	-7.15	-4.5	-2.27	-6.28	-3.41	-5.9	-11.17	-10.46	-13	-10.05	-14.73
285.00	-13.84	-12.48	-5.97	-6.34	-7.06	-7.75	-1.51	-1.71	-8.01	-11.5	-8.95	-8.98	-14.73
300.00	-13.01	-13.92	-5.33	-8.66	-6.71	-3.45	-8.36	-17.81	-13.76	-11.45	-9.65	-8.29	-14.73
315.00	-13.14	-17.53	-5.87	-14.44	-5.64	-7.37	-4.27	-5.49	-11.63	-7.75	-14.92	-8.26	-14.73
330.00	-13.39	-26.27	-8.57	-10.18	-4.81	-2.89	0.13	-1.14	-5.68	-8.13	-12.25	-7.7	-14.73
345.00	-12.77	-15.33	-12.01	-3.97	-8.99	-3.61	-0.58	-0.49	-6.84	-9.19	-10.15	-6.34	-14.73

5200MHz Composite Gain (1SS)													
Freq	5200.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-11.44	-13.10	-7.27	-8.34	-2.31	0.56	2.92	3.40	0.16	-0.83	-3.30	-3.21	-11.98
15.00	-11.31	-13.27	-7.63	-1.57	1.27	4.16	4.98	4.33	-0.12	-1.20	-1.66	-2.99	-11.98
30.00	-11.15	-10.72	-6.21	-0.18	-1.35	2.33	4.57	3.60	0.72	-0.46	-5.33	-5.42	-11.98
45.00	-12.17	-8.74	-6.78	-4.52	0.68	4.25	4.25	2.54	0.21	-1.64	-5.54	-9.26	-11.98
60.00	-12.32	-8.15	-7.00	-3.97	0.40	4.01	6.31	3.71	0.44	-3.53	-7.09	-9.55	-11.98
75.00	-11.76	-7.50	-7.48	-4.26	-0.23	6.30	8.58	7.17	3.65	-1.29	-3.50	-9.64	-11.98
90.00	-12.21	-7.53	-9.24	-4.28	-0.35	6.97	8.27	6.83	3.68	0.01	-3.55	-7.98	-11.98
105.00	-11.77	-8.17	-9.88	-5.37	0.41	6.60	8.96	7.80	3.09	-2.19	-5.24	-6.94	-11.98
120.00	-11.36	-9.01	-7.82	-5.24	-0.29	4.32	5.72	5.48	2.47	-2.46	-6.95	-5.13	-11.98
135.00	-12.35	-9.67	-5.71	-4.69	0.59	5.80	4.96	3.89	1.24	-0.79	-4.32	-3.98	-11.98
150.00	-12.87	-10.27	-4.79	-3.48	0.25	3.73	4.20	3.28	1.58	1.64	-4.68	-6.17	-11.98
165.00	-12.89	-11.15	-4.77	-1.26	1.88	5.49	6.78	5.07	-0.45	-0.57	-4.33	-4.70	-11.98
180.00	-13.53	-9.55	-6.57	-3.77	-5.65	1.23	-0.04	-0.80	-2.39	-0.98	-6.11	-4.88	-11.98
195.00	-13.51	-11.18	-10.86	-5.02	-1.62	-0.10	0.51	0.94	-3.26	-5.15	-8.72	-4.83	-11.98
210.00	-12.43	-10.43	-4.02	-3.15	-0.85	0.83	1.39	0.78	-0.63	-2.21	-5.76	-3.59	-11.98
225.00	-11.99	-8.52	-3.12	-2.00	-2.47	-0.27	2.94	0.22	-1.99	-0.03	-3.46	-4.78	-11.98
240.00	-12.28	-7.93	-5.68	0.48	2.26	2.39	-0.48	-3.55	-3.09	-3.33	-6.82	-6.09	-11.98
255.00	-11.75	-8.49	-4.38	1.78	1.35	1.10	5.17	4.23	-0.64	-4.89	-12.29	-4.80	-11.98
270.00	-12.51	-8.88	-2.28	1.20	2.02	2.59	4.51	1.00	-3.77	-5.34	-12.10	-4.92	-11.98
285.00	-12.83	-9.26	-1.38	0.65	0.50	2.65	4.08	1.12	-1.56	-7.47	-6.63	-5.84	-11.98
300.00	-12.17	-9.94	-2.31	-0.99	-1.14	-1.19	-4.89	-5.93	-3.72	-6.84	-3.62	-5.74	-11.98
315.00	-11.82	-11.28	-5.42	-7.91	-1.27	1.69	2.62	-0.10	-4.71	-5.18	-4.55	-5.66	-11.98
330.00	-11.78	-14.30	-8.42	-8.18	-1.88	1.22	3.36	2.11	-1.40	-4.12	-7.77	-3.12	-11.98
345.00	-10.86	-12.40	-6.96	-3.15	-2.54	2.17	4.59	3.36	-2.46	-5.41	-4.03	-1.71	-11.98

5200MHz Composite Gain (2SS)													
Freq	5200.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-14.33	-15.51	-10.27	-10.59	-5.24	-2.38	-0.06	0.52	-2.69	-3.76	-6.08	-6.22	-14.98
15.00	-14.02	-15.96	-10.39	-4.55	-1.59	1.26	2.00	1.36	-2.39	-3.84	-4.66	-6.00	-14.98
30.00	-13.88	-13.72	-8.89	-3.19	-3.60	-0.59	1.56	0.70	-1.99	-2.83	-8.08	-8.43	-14.98
45.00	-14.96	-11.70	-9.50	-7.45	-2.31	1.28	1.24	-0.34	-2.75	-4.39	-8.48	-12.02	-14.98
60.00	-15.12	-11.05	-9.87	-6.92	-2.43	1.13	3.36	0.70	-2.50	-6.32	-10.09	-12.51	-14.98

75.00	-14.54	-10.35	-10.16	-7.26	-3.20	3.52	6.09	4.31	0.65	-4.26	-6.42	-12.37	-14.98
90.00	-14.94	-10.39	-12.25	-7.03	-3.06	4.06	5.51	3.94	0.68	-2.95	-6.56	-10.63	-14.98
105.00	-14.37	-10.98	-12.89	-8.04	-2.59	3.59	6.03	4.82	0.33	-4.92	-8.10	-9.71	-14.98
120.00	-14.11	-11.91	-10.76	-8.20	-3.29	1.32	2.81	2.47	-0.54	-4.92	-9.10	-8.07	-14.98
135.00	-15.23	-12.68	-8.51	-7.67	-2.14	3.10	2.17	0.93	-1.62	-3.73	-6.88	-6.90	-14.98
150.00	-15.75	-12.80	-7.41	-6.34	-2.63	0.72	1.20	0.27	-1.43	-1.37	-7.56	-8.82	-14.98
165.00	-15.64	-12.08	-7.41	-4.23	-1.10	2.49	3.86	2.34	-3.45	-3.52	-7.14	-7.71	-14.98
180.00	-16.21	-12.04	-9.43	-6.77	-8.16	-1.53	-2.35	-3.22	-5.31	-3.98	-8.67	-7.67	-14.98
195.00	-16.08	-14.07	-13.85	-8.03	-4.60	-3.08	-1.89	-2.04	-6.10	-7.78	-11.06	-7.56	-14.98
210.00	-15.15	-13.07	-6.99	-6.12	-3.56	-2.12	-1.29	-1.42	-3.46	-4.87	-8.59	-6.36	-14.98
225.00	-14.88	-11.46	-6.11	-5.01	-5.36	-3.21	0.11	-2.61	-4.67	-2.55	-6.24	-7.75	-14.98
240.00	-15.22	-10.94	-7.87	-1.83	-0.57	-0.60	-2.92	-6.45	-5.31	-5.14	-9.62	-9.07	-14.98
255.00	-14.70	-11.50	-6.85	-0.82	-1.66	-1.89	2.24	1.30	-3.58	-7.48	-15.30	-7.49	-14.98
270.00	-15.42	-11.88	-5.13	-1.51	-0.91	0.52	2.24	-1.48	-6.15	-8.16	-14.79	-7.73	-14.98
285.00	-15.56	-12.26	-4.27	-1.81	-1.84	0.87	1.35	-1.89	-4.13	-10.43	-9.61	-8.85	-14.98
300.00	-14.85	-12.90	-5.32	-3.31	-3.87	-4.17	-7.89	-7.46	-5.57	-9.73	-6.28	-8.74	-14.98
315.00	-14.63	-13.88	-7.95	-10.46	-4.19	-0.35	0.14	-2.86	-7.19	-8.18	-6.33	-8.66	-14.98
330.00	-14.66	-15.81	-10.82	-11.12	-4.89	-1.73	0.35	-0.89	-4.34	-7.08	-10.68	-6.01	-14.98
345.00	-13.79	-15.41	-9.78	-5.82	-5.11	-0.53	1.78	0.38	-5.37	-8.39	-6.66	-4.60	-14.98

Ant1													
Freq	5300.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-12.54	-19.32	-13.4	-13.99	-4.64	-2.62	0.27	-0.52	-6.46	-6.96	-4.69	-6.24	-15.09
15.00	-12.95	-15.92	-11.52	-3.73	0.68	2.38	1.3	-2.36	-11.5	-10.25	-6.64	-6.3	-15.09
30.00	-12.93	-11.25	-7.1	-4.94	-7.07	0.05	2.3	-1.17	-6.21	-8.68	-11.22	-9	-15.09
45.00	-13.15	-9.51	-9.01	-11.85	-1.7	1.76	0.48	-4.07	-4.8	-8.15	-9.22	-7.36	-15.09
60.00	-13.72	-8.67	-16.86	-8.58	-1.93	0.96	4.25	-0.03	-6.35	-11.72	-14.11	-8.4	-15.09
75.00	-12.94	-8.69	-17.91	-5.68	-3	5.99	7.84	4.87	-1.18	-6.56	-7.48	-9.76	-15.09
90.00	-12.19	-8.53	-15.28	-7.81	-4.7	6.8	7.39	5.15	0.07	-3.55	-5.9	-8.4	-15.09
105.00	-12.11	-8.94	-15.06	-8.95	-6.17	4.56	7.03	4.9	-2.42	-6.33	-7.95	-8.52	-15.09
120.00	-12.75	-9.6	-14.48	-8.9	-3.3	0.45	4.02	1.73	-2.77	-9.82	-17.04	-9.67	-15.09
135.00	-13.33	-10.62	-10.11	-7.23	0.21	5.25	3.54	0.9	-1.61	-9.45	-12.2	-8.89	-15.09
150.00	-13.82	-12.85	-10.63	-7.76	-4.13	2.36	3.04	0.84	-2.64	-3.75	-12.55	-15.09	-15.09
165.00	-14.13	-16.08	-11.95	-4.19	1.05	2.12	0.84	-1.14	-5.34	-7.48	-10.15	-7.8	-15.09
180.00	-13.89	-16.52	-10.69	-7.77	-10.05	-1.01	-5.41	-6.11	-6	-5.39	-11.96	-5.37	-15.09
195.00	-12.79	-12.51	-9.44	-6.08	-4.52	-3.45	-7.45	-4.95	-10.07	-10.54	-14.57	-5.33	-15.09
210.00	-12.83	-10.28	-10.62	-7.7	-6.62	-3.51	-7.33	-7.58	-8.93	-8.1	-11.8	-3.96	-15.09
225.00	-13.31	-10	-9.79	-5.57	-7.7	-7.04	-4.35	-6.24	-9.17	-9.19	-8.2	-4.78	-15.09
240.00	-13.36	-10.44	-6.67	-0.52	0.41	-0.5	-1.23	-4.22	-11.7	-14.02	-8.64	-7.46	-15.09
255.00	-14.05	-11.28	-5.83	0.95	-0.4	0.2	4.59	-0.11	-4.89	-13.01	-13.07	-6.89	-15.09
270.00	-14.41	-12.03	-4.49	1.31	1.45	4.28	5.84	2.14	-4.37	-6.78	-14.13	-7.52	-15.09
285.00	-13.79	-12.14	-3.87	1.65	0.66	4.06	3.12	-2.51	-3.72	-7.78	-8.22	-9	-15.09



300.00	-13.02	-12.41	-6.3	-1.13	-2.05	-4.04	-5.66	-3.72	-4.7	-8.13	-4.83	-7.63	-15.09
315.00	-13.13	-12.24	-10.81	-10.61	-4.09	2.2	2.08	-1.51	-5.59	-10.17	-4.45	-7.24	-15.09
330.00	-13.26	-12.3	-17.02	-11.83	-4.16	-0.48	0.25	-0.93	-5.29	-9.91	-7.85	-3.54	-15.09
345.00	-12.88	-14.12	-9.17	-6.99	-2.98	0.86	1.67	-0.51	-6.29	-8.82	-4	-3.33	-15.09

Ant4													
Freq	5300.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-12.34	-14.16	-9.7	-7.12	-3.92	-0.95	0.01	1.47	-0.78	-2.26	-7.42	-5.6	-12.59
15.00	-12.43	-20.05	-10.84	-4.75	-2.14	-0.74	0.36	2.15	0.15	-1.28	-5.88	-5.35	-12.59
30.00	-12.72	-16.81	-13.31	-5.25	-2.38	0.13	0.87	1.7	-0.2	-0.55	-6.23	-8.56	-12.59
45.00	-11.31	-13.17	-10.78	-6.04	-2.82	0.69	1.42	1.44	-0.61	-2.18	-8.61	-12.59	-12.59
60.00	-11.21	-11.71	-9.87	-6.8	-4.49	-0.98	0.97	0.68	-1.56	-5.86	-7.05	-11.42	-12.59
75.00	-11.84	-12.23	-12.79	-5.57	-1.13	1.26	1.2	1.63	-0.26	-3.68	-4.71	-9.47	-12.59
90.00	-11.19	-11.54	-13.82	-4.87	-1.58	3.13	4.42	3.57	1.78	-2.34	-5.48	-8.18	-12.59
105.00	-11.83	-11.09	-12.11	-5.53	-2.48	2.54	3.5	3.15	1.96	-3.59	-5.08	-8.04	-12.59
120.00	-12.3	-11.08	-11.26	-6.81	-2.73	2.19	1.94	1.99	-0.82	-3.26	-5.86	-7.08	-12.59
135.00	-11.39	-11.47	-8.76	-6.33	-4.44	1.86	1.98	1.6	-2.67	-3.18	-4.58	-5.76	-12.59
150.00	-11.39	-12.96	-7.34	-5.04	-2.8	0.82	1.73	1.26	-1.63	-2.49	-4.72	-6.66	-12.59
165.00	-12.32	-11.7	-6.6	-4.71	-1.76	2.93	4.22	4.18	-1.96	-2.97	-5.36	-7.81	-12.59
180.00	-11.9	-10	-7.48	-6.29	-5.09	0.27	1.17	0.68	-3.14	-5.3	-7.34	-8.66	-12.59
195.00	-12.12	-10.41	-11.97	-7.04	-3.35	-2.43	0.36	-0.93	-3.89	-5.4	-7.7	-8.75	-12.59
210.00	-12.45	-12.19	-8.96	-5.54	-3.12	-1.88	-0.84	-0.3	-2.57	-3.03	-7.88	-8.9	-12.59
225.00	-12.85	-12.69	-5.17	-3.86	-2.75	-1.62	1.52	-0.67	-3.8	-1.5	-4.72	-9.37	-12.59
240.00	-12.28	-12.96	-6.92	-6.61	-3.56	-2.39	-6.13	-8.59	-2.57	-1.99	-8.06	-11.25	-12.59
255.00	-13.38	-13.62	-12.5	-7.28	-3.13	-2.54	1.04	2.19	-2.42	-4.74	-17.15	-10.9	-12.59
270.00	-13.28	-14.11	-8.13	-4.95	-2.38	-3.96	-1.02	-2.87	-10.08	-11.64	-14.22	-9.54	-12.59
285.00	-12.76	-15.89	-5.09	-5.04	-6.52	-8.72	-3.06	-1.54	-8.28	-11.34	-9.49	-8.19	-12.59
300.00	-12.88	-17.63	-4.41	-6.71	-8.28	-3.13	-6.21	-14.37	-15.67	-12	-10.8	-7.86	-12.59
315.00	-12.75	-22.59	-6.82	-12.44	-7.02	-5.28	-2.51	-4.31	-10.72	-7.51	-13.13	-7.86	-12.59
330.00	-12.06	-17.46	-9.68	-10.41	-5.72	-3.27	-0.81	-1.78	-6.25	-9.29	-11.53	-7.66	-12.59
345.00	-12.77	-13.31	-11.25	-6.85	-6.75	-4.97	-1.47	-1.65	-7.08	-9.43	-9.26	-6.56	-12.59

5300MHz Composite Gain (1SS)													
Freq	5300.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-9.43	-13.35	-8.34	-6.88	-1.26	1.27	3.15	3.54	-0.15	-1.29	-2.94	-2.90	-10.74
15.00	-9.68	-14.73	-8.16	-1.21	2.39	3.97	3.85	3.19	-0.84	-1.64	-3.24	-2.80	-10.74
30.00	-9.81	-10.58	-6.65	-2.08	-1.40	3.10	4.62	3.39	0.32	-0.69	-5.36	-5.77	-10.74
45.00	-9.17	-8.14	-6.84	-5.46	0.77	4.25	3.97	2.13	0.56	-1.65	-5.90	-6.58	-10.74
60.00	-9.36	-7.05	-9.67	-4.63	-0.11	3.05	5.77	3.34	-0.62	-5.29	-6.87	-6.77	-10.74
75.00	-9.36	-7.27	-11.97	-2.61	1.00	6.95	8.15	6.41	2.30	-1.99	-2.97	-6.60	-10.74
90.00	-8.67	-6.89	-11.51	-3.21	0.01	8.17	9.04	7.41	3.98	0.09	-2.68	-5.28	-10.74

105.00	-8.96	-6.94	-10.45	-4.06	-1.12	6.62	8.45	7.08	3.05	-1.84	-3.39	-5.27	-10.74
120.00	-9.51	-7.30	-9.71	-4.78	0.00	4.37	6.05	4.87	1.27	-2.92	-6.75	-5.27	-10.74
135.00	-9.30	-8.02	-6.40	-3.76	1.20	6.73	5.81	4.27	0.89	-2.75	-4.57	-4.17	-10.74
150.00	-9.51	-9.89	-5.82	-3.28	-0.43	4.63	5.42	4.06	0.89	-0.09	-4.77	-6.88	-10.74
165.00	-10.17	-10.61	-5.86	-1.44	2.77	5.54	5.70	4.93	-0.48	-1.93	-4.42	-4.79	-10.74
180.00	-9.83	-9.65	-5.93	-3.99	-4.21	2.66	1.50	0.94	-1.44	-2.33	-6.34	-3.85	-10.74
195.00	-9.44	-8.39	-7.60	-3.54	-0.91	0.09	0.32	0.30	-3.43	-4.58	-7.46	-3.86	-10.74
210.00	-9.63	-8.17	-6.74	-3.54	-1.68	0.35	-0.48	-0.19	-2.17	-2.19	-6.61	-3.07	-10.74
225.00	-10.07	-8.23	-4.17	-1.66	-1.87	-0.90	2.08	-0.01	-3.07	-1.51	-3.28	-3.76	-10.74
240.00	-9.79	-8.60	-3.78	-0.03	1.66	1.62	-0.33	-3.12	-2.98	-3.06	-5.33	-6.14	-10.74
255.00	-10.70	-9.36	-5.53	0.79	1.35	1.95	6.01	4.13	-0.56	-4.92	-11.86	-5.66	-10.74
270.00	-10.82	-10.00	-3.11	1.74	2.75	4.11	6.08	3.00	-3.75	-5.86	-11.16	-5.46	-10.74
285.00	-10.25	-10.80	-1.45	1.94	0.80	2.85	3.58	1.00	-2.69	-6.37	-5.82	-5.58	-10.74
300.00	-9.94	-11.62	-2.29	-0.47	-1.61	-0.56	-2.92	-4.50	-5.55	-6.84	-4.30	-4.73	-10.74
315.00	-9.93	-12.95	-5.58	-8.47	-2.42	2.25	3.10	0.21	-4.77	-5.73	-4.74	-4.53	-10.74
330.00	-9.63	-11.49	-9.59	-8.08	-1.89	1.25	2.75	1.67	-2.75	-6.58	-6.49	-2.35	-10.74
345.00	-9.81	-10.70	-7.14	-3.91	-1.65	1.44	3.25	1.95	-3.67	-6.11	-3.23	-1.79	-10.74

5300MHz Composite Gain (2SS)													
Freq	5300.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-12.44	-16.01	-11.17	-9.32	-4.27	-1.71	0.14	0.59	-2.75	-4.00	-5.84	-5.91	-13.66
15.00	-12.68	-17.51	-11.17	-4.21	-0.51	1.09	0.86	0.46	-2.57	-3.77	-6.24	-5.80	-13.66
30.00	-12.82	-13.20	-9.18	-5.09	-4.12	0.09	1.64	0.50	-2.24	-2.94	-8.04	-8.77	-13.66
45.00	-12.13	-10.97	-9.81	-8.04	-2.22	1.26	0.98	-0.49	-2.22	-4.21	-8.90	-9.23	-13.66
60.00	-12.29	-9.93	-12.09	-7.60	-3.02	0.10	2.91	0.34	-3.33	-7.87	-9.28	-9.65	-13.66
75.00	-12.36	-10.11	-14.64	-5.62	-1.97	4.24	5.68	3.55	-0.70	-4.89	-5.88	-9.61	-13.66
90.00	-11.66	-9.78	-14.49	-6.10	-2.87	5.34	6.15	4.43	1.01	-2.90	-5.68	-8.29	-13.66
105.00	-11.97	-9.88	-13.34	-6.91	-3.94	3.67	5.61	4.11	0.30	-4.75	-6.28	-8.27	-13.66
120.00	-12.52	-10.28	-12.58	-7.73	-3.01	1.41	3.10	1.86	-1.69	-5.40	-8.55	-8.18	-13.66
135.00	-12.25	-11.02	-9.38	-6.76	-1.52	3.88	2.83	1.26	-2.11	-5.27	-6.90	-7.05	-13.66
150.00	-12.44	-12.90	-8.68	-6.19	-3.41	1.66	2.43	1.06	-2.11	-3.07	-7.07	-9.09	-13.66
165.00	-13.13	-13.36	-8.50	-4.44	-0.13	2.54	2.85	2.29	-3.33	-4.66	-7.13	-7.80	-13.66
180.00	-12.78	-12.14	-8.79	-6.97	-6.90	-0.32	-0.98	-1.50	-4.34	-5.34	-9.06	-6.71	-13.66
195.00	-12.44	-11.33	-10.52	-6.53	-3.90	-2.91	-1.98	-2.49	-5.96	-7.25	-9.90	-6.71	-13.66
210.00	-12.64	-11.13	-9.71	-6.49	-4.53	-2.62	-2.97	-2.57	-4.68	-4.86	-9.41	-5.76	-13.66
225.00	-13.07	-11.14	-6.89	-4.63	-4.55	-3.53	-0.49	-2.62	-5.70	-3.83	-6.12	-6.49	-13.66
240.00	-12.79	-11.52	-6.79	-2.57	-1.14	-1.34	-3.02	-5.88	-5.08	-4.74	-8.34	-8.95	-13.66
255.00	-13.70	-12.29	-7.99	-1.45	-1.55	-0.96	3.17	1.19	-3.48	-7.15	-14.65	-8.45	-13.66
270.00	-13.81	-12.95	-5.94	-0.78	-0.06	1.88	3.64	0.32	-6.35	-8.56	-14.17	-8.41	-13.66
285.00	-13.24	-13.62	-4.44	-0.52	-1.59	1.27	1.05	-2.00	-5.43	-9.21	-8.81	-8.58	-13.66
300.00	-12.95	-14.28	-5.25	-3.08	-4.13	-3.56	-5.93	-6.37	-7.38	-9.65	-6.86	-7.74	-13.66
315.00	-12.94	-14.87	-8.37	-11.43	-5.31	-0.10	0.37	-2.69	-7.44	-8.64	-6.91	-7.54	-13.66



330.00	-12.62	-14.15	-11.95	-11.06	-4.87	-1.65	-0.25	-1.33	-5.74	-9.59	-9.31	-5.13	-13.66
345.00	-12.82	-13.70	-10.09	-6.92	-4.47	-1.14	0.38	-1.04	-6.67	-9.11	-5.88	-4.65	-13.66

Ant1													
Freq	5600.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-6	-8.06	-8.14	-2.57	0.79	1.98	2.19	-1.27	-9.53	-13.45	-4.08	-1.8	-6.69
15.00	-6.3	-9.02	-5.73	-1.51	-0.4	1.9	0.53	-2.66	-8.94	-11.34	-7.48	-3	-6.69
30.00	-6.29	-11.14	-8.57	-4.69	-2.21	2.94	3.53	-1.47	-10.47	-14.11	-8.3	-2.43	-6.69
45.00	-6.24	-11.74	-16.78	-1.75	-1.64	-1.03	1.01	-3.92	-9.18	-7.16	-8.05	-1.82	-6.69
60.00	-6.2	-11.93	-9.95	-2.54	-0.07	4.98	4.6	-5.99	-6.93	-4.89	-6.8	-4.15	-6.69
75.00	-5.96	-13.2	-7.31	-5.19	1.04	5.43	4.66	-4.17	-15.84	-6.51	-7.16	-5.28	-6.69
90.00	-6.16	-14.84	-7.5	-7.36	2.32	5.86	1.59	-2.93	-14.46	-5.69	-3.95	-3.01	-6.69
105.00	-6.32	-13.91	-7.72	-4.85	2.22	6.21	4.43	-2.46	-11.46	-9.81	-6.22	-1.56	-6.69
120.00	-6.46	-10.33	-10.75	-1.89	-0.78	1.92	3.24	-3.33	-9.01	-14.95	-10.84	-1.63	-6.69
135.00	-6.48	-7.3	-10.03	-3.9	-2.14	3.05	0.33	-7.51	-10.14	-15.85	-6.03	-1.26	-6.69
150.00	-6.52	-6.2	-4.25	-3.77	1.24	4.17	0.59	-2.45	-7.23	-10.94	-7.63	-4.27	-6.69
165.00	-6.63	-7.5	-6.53	-3.84	1.03	3.88	-1.78	-8.9	-7.07	-4.7	-7.98	-6.69	-6.69
180.00	-6.51	-9.29	-8.62	-4.56	-2.95	0.99	-1.66	-5.78	-8.11	-8.94	-9.43	-4.39	-6.69
195.00	-6.5	-8.02	-8.3	-15.95	-6.16	-4.31	-8.8	-7.59	-7.05	-4.27	-6.1	-5.93	-6.69
210.00	-6.4	-6.99	-7.42	-6.34	-9.51	-5.1	-8.51	-5.12	-11.71	-6.1	-7.82	-3.84	-6.69
225.00	-6.22	-6.1	-8.45	-5.04	-12.53	-7.85	-15.26	-7.55	-4.66	-5.07	-2.7	0.38	-6.69
240.00	-6.34	-5.39	-6.26	-1.72	2.18	0.9	-0.51	-3.94	-4.15	-5.34	-0.39	0.02	-6.69
255.00	-6.42	-5.26	-3.42	1.22	3.68	2.62	5.74	0.18	-1.38	-1.59	-4.47	-2.18	-6.69
270.00	-6.34	-5.67	-3.21	1.51	3.56	6.03	7.05	0.25	-2.73	-0.8	-2.36	-3.48	-6.69
285.00	-6.48	-6.99	-5.36	0.3	2.68	6.3	4.99	-3.82	-2.39	-0.39	0.45	-3.77	-6.69
300.00	-6.24	-9.04	-11.15	-2.62	0.17	-2.87	0	0.25	-10	-3.07	0.51	-3.35	-6.69
315.00	-5.99	-9.65	-17.47	-7.01	-4.42	-0.48	-3.35	-14.1	-1.76	-8.59	-3.33	-1.87	-6.69
330.00	-6.04	-9.26	-12.04	-4.86	-2.95	0.04	-0.68	-5.94	-22.62	-12.26	-1.77	-0.32	-6.69
345.00	-5.78	-8.35	-15.33	-5.96	-3.54	0.68	-0.56	-5.99	-6.3	-7.91	-3.41	-1.56	-6.69

Ant4													
Freq	5600.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-10.37	-17.58	-10.1	-7.3	-6.34	-1.56	1.38	1.85	-1.72	-3.5	-6.41	-4.81	-10.87
15.00	-10.56	-15.05	-12.85	-6.97	-3.26	-0.1	2.65	2.33	-0.22	-0.56	-6.57	-6.5	-10.87
30.00	-11.1	-13.78	-9.42	-5.16	-3.05	-0.73	-0.48	1.91	0.57	-1.92	-9.62	-10.35	-10.87
45.00	-11.28	-12.59	-12.18	-5.65	-4.73	-2.2	-1.08	0.02	0.06	-3.26	-8.01	-10.87	-10.87
60.00	-11.68	-11.4	-8.71	-6.92	-1.76	1.38	1.98	1.92	-1.82	-5.79	-6.65	-10.1	-10.87
75.00	-13.06	-11.57	-7.45	-10.18	-3.21	1.84	2.69	2.75	0.82	-2.77	-3.62	-8.61	-10.87
90.00	-12.84	-10.94	-7.06	-4.29	-0.34	3.06	5.13	4.08	2.69	-0.94	-2.55	-6.62	-10.87
105.00	-12.6	-11.77	-6.4	-4.44	-0.24	2.89	3.29	3.31	0.2	-1.67	-4.13	-6	-10.87
120.00	-12.51	-13.18	-8.6	-4.56	-2.34	2.62	3.72	3.23	-0.05	-4.07	-7.69	-5.73	-10.87

135.00	-11.93	-13.63	-13.02	-4.13	-3.84	1.46	1.65	1.5	0.21	-3.03	-7.64	-5.87	-10.87
150.00	-11.51	-12.14	-9.04	-4.97	-3.27	-0.39	2.28	2.35	-1.99	-2.1	-4.97	-5.9	-10.87
165.00	-12.59	-12.23	-9.29	-3.64	-0.68	2.5	4.44	4.17	0.34	-4.19	-6.39	-6.41	-10.87
180.00	-12.83	-14.94	-7.13	-3.77	-4.21	-0.76	2.15	1.8	-3.37	-4.64	-7.17	-7.17	-10.87
195.00	-12.93	-11.77	-7.46	-9.96	-6.25	-0.82	-0.37	1.3	-4.14	-4.86	-8.09	-7.04	-10.87
210.00	-12.62	-8.02	-11.95	-5.06	-5.13	-1.04	-1.79	-1.82	-3.62	-5.82	-8.06	-7.85	-10.87
225.00	-11.82	-7.32	-6.64	-2.71	-3.24	-1.1	-3.14	-3.8	-4.26	-4.11	-6.16	-8.07	-10.87
240.00	-11.01	-8.4	-5.82	-2.87	-3.26	-1.98	-6.28	-5.18	-0.66	-4.4	-7.45	-9.84	-10.87
255.00	-10.86	-9.83	-8.52	-4.77	-2.76	-2.86	-1.16	1.23	-5.34	-8.03	-16.74	-10.08	-10.87
270.00	-10.36	-10.5	-9.93	-4.42	-5.05	-7.25	-3.11	-3.11	-6.8	-13.1	-10.84	-9.32	-10.87
285.00	-10.76	-11.7	-8.59	-5.91	-8.52	-6.37	-2.01	-0.71	-13.75	-12.66	-9.35	-9.62	-10.87
300.00	-11.18	-11.17	-8.35	-6.86	-8.08	-3.35	-7.3	-19.89	-17.2	-11.04	-10.55	-10	-10.87
315.00	-11.19	-11.92	-7.43	-6.97	-6.14	-6.93	-9.89	-7.15	-8.04	-9.83	-12.14	-9.96	-10.87
330.00	-11.16	-15.29	-9.29	-8.21	-8.63	-3.13	0.72	-0.56	-5.2	-11.51	-14.67	-8.28	-10.87
345.00	-11.17	-21.39	-10.95	-10.78	-9.97	-3.49	-0.16	-0.17	-3.68	-7.2	-7.5	-6.38	-10.87

5600MHz Composite Gain (1SS)													
Freq	5600.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-4.90	-8.57	-6.05	-1.61	0.95	3.40	4.80	3.44	-1.76	-4.11	-2.16	-0.16	-5.52
15.00	-5.16	-8.51	-5.57	-0.81	1.30	3.97	4.66	3.20	-0.52	-1.36	-4.00	-1.56	-5.52
30.00	-5.36	-9.35	-5.97	-1.91	0.39	4.31	4.76	3.39	-0.29	-3.02	-5.92	-2.51	-5.52
45.00	-5.39	-9.14	-11.17	-0.47	-0.04	1.41	3.04	1.28	-0.37	-1.98	-5.02	-2.21	-5.52
60.00	-5.50	-8.65	-6.30	-1.45	2.14	6.38	6.40	1.85	-0.99	-2.32	-3.71	-3.61	-5.52
75.00	-5.79	-9.34	-4.37	-4.32	2.18	6.83	6.74	2.97	-1.00	-1.43	-2.20	-3.78	-5.52
90.00	-5.86	-9.66	-4.27	-2.68	4.10	7.58	6.55	4.27	0.81	0.02	-0.21	-1.62	-5.52
105.00	-5.89	-9.76	-4.02	-1.63	4.09	7.72	6.89	3.91	-0.79	-1.81	-2.10	-0.49	-5.52
120.00	-5.96	-8.63	-6.60	-0.11	1.49	5.29	6.49	3.57	-0.41	-4.90	-6.11	-0.43	-5.52
135.00	-5.77	-6.89	-8.39	-1.00	0.06	5.30	4.03	1.12	-0.50	-4.25	-3.79	-0.25	-5.52
150.00	-5.65	-5.66	-3.31	-1.34	2.28	5.20	4.49	3.29	-1.21	-2.43	-3.19	-2.04	-5.52
165.00	-6.10	-6.54	-4.79	-0.73	3.23	6.23	4.89	2.90	0.41	-1.43	-4.14	-3.54	-5.52
180.00	-6.10	-8.65	-4.83	-1.15	-0.55	3.17	3.46	1.82	-2.41	-3.52	-5.22	-2.66	-5.52
195.00	-6.12	-6.68	-4.86	-9.44	-3.19	0.62	-0.59	0.96	-2.46	-1.55	-4.03	-3.46	-5.52
210.00	-5.95	-4.48	-6.38	-2.67	-4.04	0.18	-1.51	-0.30	-3.75	-2.95	-4.93	-2.61	-5.52
225.00	-5.57	-3.68	-4.49	-0.79	-3.69	-0.82	-4.23	-2.46	-1.45	-1.57	-1.25	0.15	-5.52
240.00	-5.35	-3.75	-3.03	0.73	2.89	2.59	0.09	-1.53	0.78	-1.85	-0.21	-0.57	-5.52
255.00	-5.35	-4.24	-2.59	1.74	4.05	3.32	5.97	3.73	-0.13	-1.22	-5.59	-2.25	-5.52
270.00	-5.11	-4.74	-2.93	2.05	3.29	4.72	6.39	1.74	-1.52	-1.92	-2.59	-2.91	-5.52
285.00	-5.35	-6.02	-3.82	0.75	1.78	5.11	5.19	0.88	-3.32	-1.51	-0.13	-3.20	-5.52
300.00	-5.35	-7.03	-6.63	-1.47	0.00	-0.10	0.11	-1.95	-9.86	-3.16	-0.36	-3.04	-5.52
315.00	-5.20	-7.70	-8.06	-3.98	-2.23	-0.11	-3.01	-6.94	-1.33	-6.18	-3.65	-2.00	-5.52
330.00	-5.22	-8.75	-7.55	-3.36	-2.32	1.61	3.06	0.17	-7.11	-8.87	-3.01	-0.41	-5.52
345.00	-5.05	-9.61	-9.86	-5.03	-3.16	1.85	2.65	0.41	-1.88	-4.54	-2.21	-0.63	-5.52

5600MHz Composite Gain (2SS)													
Freq	5600.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-7.66	-10.61	-9.01	-4.32	-1.45	0.56	1.80	0.56	-4.06	-6.09	-5.09	-3.05	-8.30
15.00	-7.93	-11.06	-7.97	-3.43	-1.60	1.01	1.72	0.52	-2.68	-3.22	-7.00	-4.41	-8.30
30.00	-8.06	-12.26	-8.97	-4.92	-2.61	1.48	1.97	0.54	-2.11	-4.68	-8.91	-4.79	-8.30
45.00	-8.07	-12.14	-13.90	-3.28	-2.92	-1.58	0.09	-1.52	-2.46	-4.79	-8.03	-4.32	-8.30
60.00	-8.13	-11.66	-9.29	-4.20	-0.83	3.54	3.48	-0.44	-3.66	-5.32	-6.72	-6.18	-8.30
75.00	-8.20	-12.31	-7.38	-7.00	-0.58	4.00	3.79	0.54	-2.10	-4.25	-5.04	-6.63	-8.30
90.00	-8.33	-12.47	-7.27	-5.56	1.19	4.68	3.71	1.86	-0.24	-2.70	-3.19	-4.45	-8.30
105.00	-8.41	-12.71	-7.01	-4.64	1.16	4.86	3.90	1.32	-2.52	-4.06	-5.05	-3.24	-8.30
120.00	-8.51	-11.53	-9.54	-3.02	-1.49	2.28	3.49	1.09	-2.54	-6.74	-8.99	-3.21	-8.30
135.00	-8.40	-9.40	-11.27	-4.01	-2.91	2.33	1.04	-1.00	-2.42	-5.82	-6.76	-2.98	-8.30
150.00	-8.33	-8.22	-6.02	-4.33	-0.45	2.46	1.52	0.58	-3.86	-4.58	-6.10	-5.01	-8.30
165.00	-8.66	-9.25	-7.69	-3.74	0.26	3.24	2.36	1.37	-1.95	-4.44	-7.11	-6.55	-8.30
180.00	-8.61	-11.25	-7.81	-4.15	-3.53	0.20	0.65	-0.51	-5.12	-6.28	-8.15	-5.56	-8.30
195.00	-8.62	-9.50	-7.86	-12.00	-6.20	-2.22	-2.80	-1.18	-5.36	-4.55	-6.98	-6.45	-8.30
210.00	-8.48	-7.47	-9.12	-5.65	-6.79	-2.61	-3.96	-3.16	-6.00	-5.96	-7.94	-5.40	-8.30
225.00	-8.17	-6.67	-7.45	-3.72	-5.77	-3.28	-5.89	-5.28	-4.46	-4.56	-4.09	-2.05	-8.30
240.00	-8.08	-6.64	-6.03	-2.26	0.26	-0.31	-2.50	-4.52	-2.06	-4.84	-2.62	-2.56	-8.30
255.00	-8.10	-6.97	-5.26	-0.82	1.56	0.69	3.54	0.74	-2.92	-3.71	-7.23	-4.54	-8.30
270.00	-7.90	-7.45	-5.38	-0.51	1.11	3.22	4.44	-1.11	-4.30	-3.56	-4.79	-5.48	-8.30
285.00	-8.11	-8.74	-6.68	-1.78	-0.01	3.52	2.77	-1.99	-5.09	-3.15	-2.13	-5.78	-8.30
300.00	-8.04	-9.98	-9.53	-4.24	-2.23	-3.10	-2.27	-2.72	-12.25	-5.44	-2.17	-5.51	-8.30
315.00	-7.85	-10.64	-10.03	-6.99	-5.20	-2.60	-5.49	-9.36	-3.85	-9.17	-5.80	-4.25	-8.30
330.00	-7.89	-11.30	-10.45	-6.22	-4.92	-1.26	0.08	-2.47	-8.13	-11.87	-4.56	-2.69	-8.30
345.00	-7.69	-11.15	-12.61	-7.73	-5.66	-0.92	-0.36	-2.17	-4.80	-7.54	-4.99	-3.33	-8.30

Ant1													
Freq	5800.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-5.3	-7.4	-8.22	-3.75	0.26	1.44	-1.93	-4.41	-8.47	-4.79	-2.38	-2.39	-10.89
15.00	-5.75	-6.32	-4	0.52	1.15	1.51	-7.2	-11.27	-7.48	-9.15	-5.59	-2.85	-10.89
30.00	-5.73	-6.52	-5.41	-4.51	-0.89	3.27	0.65	-8.14	-8.55	-8.67	-11.63	-2.77	-10.89
45.00	-5.9	-7.07	-8.17	-1.51	-1.14	1.1	1.03	-4.8	-12.57	-3.4	-7.91	-4.67	-10.89
60.00	-6.12	-7.16	-6.14	-0.67	-1.71	2.82	2.57	-3.12	-5	-4.24	-3.4	-8.71	-10.89
75.00	-5.83	-7.05	-5.4	-2.86	2.69	3.71	0.78	-7.23	-4.54	-2.03	-8.98	-10.89	-10.89
90.00	-5.99	-7.16	-8.16	-4.61	3.18	3.2	-2.91	-7.99	-6.33	-6.4	-13.67	-9.31	-10.89
105.00	-6.32	-8.88	-7.93	-3.64	3.31	5.3	-2.79	-5.28	-2.68	-3.89	-15.77	-4.68	-10.89
120.00	-5.98	-12.03	-5.8	0.98	1.03	4.62	1.36	-18.9	-3.79	-3.43	-13.12	-2.7	-10.89
135.00	-6.21	-10.32	-5.25	-2.28	1.18	0.65	-2.36	-11.09	-8.23	-5.49	-7.6	-0.87	-10.89
150.00	-6.75	-6.29	-4.51	-2.44	0.45	3.13	-2.04	-4.46	-8.47	-8.5	-6.57	-1.93	-10.89

165.00	-6.85	-5.17	-3.83	-2.01	1.11	1.02	-1.88	-4.19	-7.24	-10.91	-7.46	-6.39	-10.89
180.00	-6.82	-6.49	-9.26	-6.16	-2.44	0.91	-2.24	-3.63	-4.33	-8.4	-7.23	-5.3	-10.89
195.00	-6.87	-8.84	-7.95	-12.43	-8.38	-8.06	-8.2	-9.25	-6.38	-7.38	-6.06	-5.21	-10.89
210.00	-6.44	-10.51	-8.75	-9.44	-11.12	-5.61	-6.51	-6.98	-15.83	-4.19	-6.33	-8.34	-10.89
225.00	-5.92	-9.11	-6.23	-4.44	-8.16	-7.19	-7.57	-5.43	-5.79	-3.56	-6.46	-1.71	-10.89
240.00	-6.04	-9.37	-3.84	-2.43	2.02	2.5	-2.27	-6.5	-2.56	-8.87	0.03	0.81	-10.89
255.00	-6.05	-10.47	-4.57	1.65	2.78	1.37	3.98	-3.44	1.38	-0.86	-0.9	0.08	-10.89
270.00	-6	-12.19	-5.25	3.15	3.23	5.37	6.22	-2.39	0.22	-2.24	0.24	-2.2	-10.89
285.00	-6.22	-14.43	-6.36	2.98	3.17	3.57	2.23	-3.69	0.25	-2.31	0.6	-3.32	-10.89
300.00	-6.16	-15.95	-8.67	-3.48	1.02	-2.69	2.22	0.38	-15.01	-4.99	-1.27	-2.07	-10.89
315.00	-5.63	-15.36	-9.05	-4.66	-3.43	-0.14	-6.51	-14.51	-5.28	-4.52	-3.79	0.03	-10.89
330.00	-5.5	-12.92	-7.91	-3.82	-5.66	-4.25	-5.78	-7.65	-9.33	-7.49	-3.13	0.61	-10.89
345.00	-5.19	-10.05	-8.91	-4.56	-0.65	0.28	-4.18	-10.24	-6.94	-8.66	-4.27	-1.36	-10.89

Ant4													
Freq	5800.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-7.02	-11.37	-11.86	-8.22	-3.25	-4.4	0.94	1.1	-1.01	-3.36	-6.49	-5.99	-16.82
15.00	-7.33	-11.72	-10.28	-8	-2.63	-2.55	1.36	1.9	0.05	-1.1	-7.22	-8.84	-16.82
30.00	-7.78	-11.43	-12.69	-8	-4.34	-1.35	-0.67	1.33	-0.16	-2.86	-8.51	-8.28	-16.82
45.00	-7.42	-11.74	-12.08	-6.77	-2.56	-0.19	1.01	-0.23	-1.25	-3.97	-7.39	-7.73	-16.82
60.00	-6.94	-11.35	-10.32	-10.39	-2.48	-0.18	1.52	0.76	-2.07	-4.45	-7.76	-8.2	-16.82
75.00	-7.01	-11.08	-8.95	-4.33	-2.46	1.79	2.37	2.88	1.88	-0.99	-4.33	-7.18	-16.82
90.00	-6.86	-10.66	-8.82	-2.19	-1.26	1.85	3.62	3.04	2.39	0.73	-5.47	-5.57	-16.82
105.00	-6.87	-10.41	-8.69	-4.05	-1.24	0.82	1.97	1.92	0.7	-1.71	-7.46	-4.63	-16.82
120.00	-7.17	-10.29	-7.85	-5.71	-0.81	2.67	4.03	2.95	1.16	-3.03	-10.4	-4.4	-16.82
135.00	-6.94	-11.98	-7.92	-4.67	-0.78	2.24	3.75	2.38	0.03	-2.84	-10.65	-5.52	-16.82
150.00	-6.76	-14.86	-11.15	-4.75	-4.35	-1.01	0.18	1.37	-1.1	-1.42	-5.61	-6.71	-16.82
165.00	-7.12	-13.46	-8.62	-3.6	-0.65	0.28	2.09	3.24	0.35	-3.85	-4.43	-9.16	-16.82
180.00	-7.28	-10.87	-8.23	-3.62	-1.59	0.77	0.97	1.51	-2.67	-3.84	-7.88	-9.63	-16.82
195.00	-7.3	-10.28	-8.17	-4.82	-6.15	-1.2	-5.5	-1.38	-6.51	-10.21	-9.27	-8.13	-16.82
210.00	-7.13	-9.4	-8.64	-7.48	-3.79	-0.3	-1.52	-3.48	-5.09	-6.39	-8.22	-9.35	-16.82
225.00	-6.85	-8.1	-9.51	-2.27	-4.7	-1.12	-2.04	-3.67	-4.32	-5.45	-5.85	-12.66	-16.82
240.00	-6.95	-6.7	-8.89	-3.99	-4.81	-2.02	-6.07	-5.59	-3.06	-4.17	-7.51	-16.82	-16.82
255.00	-7.44	-7.18	-7.74	-4.23	-3.24	-2.09	0.39	-0.82	-9.05	-6.55	-19.09	-15.29	-16.82
270.00	-7.46	-7.74	-9.06	-3.12	-2.28	-1.23	-0.63	-0.78	-6.59	-10.71	-20.46	-13.81	-16.82
285.00	-7.81	-8.42	-10.2	-3.72	-6.93	-6.74	-5	-3.94	-10.93	-11.82	-13.88	-12.66	-16.82
300.00	-7.72	-9.65	-11.9	-6.47	-8.62	-3.36	-3.77	-11.55	-16.06	-13.98	-12.26	-10.4	-16.82
315.00	-7.31	-10.64	-13.37	-8.76	-5.77	-4.28	-6.96	-6.93	-9.09	-12.12	-12.12	-6.96	-16.82
330.00	-7.14	-11.15	-12.7	-8.7	-9.59	-5.85	-0.91	-1.84	-6.78	-12.57	-14.61	-5.19	-16.82
345.00	-7.33	-10.92	-12.74	-10.02	-7.65	-6.83	-3.23	-1.81	-4.19	-7.57	-8.82	-4.5	-16.82

5800MHz Composite Gain (1SS)

Freq	5800.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-3.11	-6.15	-6.84	-2.69	1.69	2.01	2.63	1.79	-0.95	-1.04	-1.18	-0.99	-10.35
15.00	-3.49	-5.60	-3.57	0.28	2.47	2.73	1.10	0.61	0.09	-1.21	-3.36	-2.33	-10.35
30.00	-3.68	-5.62	-5.30	-3.07	0.57	4.27	3.03	0.84	-0.37	-2.28	-6.92	-2.08	-10.35
45.00	-3.62	-6.08	-6.90	-0.74	1.19	3.49	4.03	0.79	-2.17	-0.67	-4.64	-3.06	-10.35
60.00	-3.51	-5.99	-4.97	-1.23	0.92	4.46	5.07	2.05	-0.40	-1.33	-2.30	-5.44	-10.35
75.00	-3.39	-5.82	-3.98	-0.55	3.50	5.81	4.62	2.23	2.26	1.52	-3.34	-5.83	-10.35
90.00	-3.40	-5.72	-5.47	-0.31	4.25	5.56	3.97	2.18	2.09	0.89	-5.63	-4.23	-10.35
105.00	-3.58	-6.60	-5.29	-0.83	4.34	6.36	2.92	2.06	2.18	0.28	-7.65	-1.64	-10.35
120.00	-3.54	-8.11	-3.75	1.27	3.17	6.71	5.81	0.61	2.04	-0.22	-8.64	-0.50	-10.35
135.00	-3.56	-8.10	-3.47	-0.38	3.27	4.49	4.23	1.04	-0.14	-1.05	-5.98	0.12	-10.35
150.00	-3.74	-6.55	-4.20	-0.51	1.39	4.31	2.15	1.95	-1.02	-1.25	-3.07	-0.98	-10.35
165.00	-3.97	-5.35	-2.89	0.24	3.28	3.67	3.34	3.31	0.37	-3.67	-2.80	-4.65	-10.35
180.00	-4.04	-5.40	-5.72	-1.79	1.01	3.85	2.52	2.33	-0.45	-2.81	-4.54	-4.19	-10.35
195.00	-4.07	-6.52	-5.05	-4.81	-4.18	-0.96	-3.74	-1.44	-3.43	-5.67	-4.51	-3.54	-10.35
210.00	-3.77	-6.93	-5.68	-5.39	-3.69	0.45	-0.65	-2.04	-5.89	-2.21	-4.21	-5.82	-10.35
225.00	-3.36	-5.58	-4.71	-0.28	-3.25	-0.62	-1.36	-1.50	-2.01	-1.44	-3.14	-2.55	-10.35
240.00	-3.47	-4.92	-2.99	-0.16	2.27	3.54	-0.95	-3.02	0.20	-3.20	0.06	-1.13	-10.35
255.00	-3.71	-5.66	-3.00	2.21	3.29	2.82	5.38	0.98	0.65	-0.24	-2.90	-1.56	-10.35
270.00	-3.69	-6.67	-3.94	3.58	3.92	5.69	6.46	1.46	0.48	-2.47	-2.00	-3.18	-10.35
285.00	-3.97	-7.90	-5.06	3.27	2.52	2.87	2.36	-0.80	-0.64	-2.81	-0.91	-3.78	-10.35
300.00	-3.89	-9.23	-7.13	-1.84	0.48	-0.01	2.74	-0.67	-12.51	-5.36	-2.12	-2.26	-10.35
315.00	-3.42	-9.67	-7.93	-3.46	-1.51	1.04	-3.72	-6.91	-3.97	-4.50	-3.98	0.23	-10.35
330.00	-3.27	-8.98	-6.97	-2.91	-4.39	-2.00	0.00	-1.26	-4.95	-6.65	-4.09	1.20	-10.35
345.00	-3.18	-7.46	-7.61	-3.86	-0.45	0.44	-0.68	-2.03	-2.45	-5.09	-3.24	0.22	-10.35

5800MHz Composite Gain (2SS)													
Freq	5800.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-6.08	-8.95	-9.67	-5.43	-1.15	-0.56	-0.26	-0.83	-3.30	-4.02	-3.97	-3.83	-12.91
15.00	-6.47	-8.23	-6.09	-1.92	-0.34	-0.06	-1.08	-0.91	-2.25	-3.48	-6.33	-4.89	-12.91
30.00	-6.64	-8.32	-7.68	-5.91	-2.28	1.55	0.04	-1.22	-2.58	-4.86	-9.80	-4.70	-12.91
45.00	-6.59	-8.81	-9.70	-3.39	-1.79	0.50	1.02	-1.94	-3.95	-3.68	-7.64	-5.94	-12.91
60.00	-6.51	-8.77	-7.75	-3.24	-2.08	1.57	2.08	-0.76	-3.29	-4.34	-5.05	-8.45	-12.91
75.00	-6.38	-8.61	-6.82	-3.53	0.84	2.86	1.65	0.27	-0.24	-1.48	-6.06	-8.65	-12.91
90.00	-6.40	-8.57	-8.48	-3.23	1.50	2.58	1.48	0.36	-0.07	-1.51	-7.87	-7.05	-12.91
105.00	-6.59	-9.58	-8.29	-3.84	1.61	3.61	0.21	-0.33	-0.67	-2.66	-9.87	-4.65	-12.91
120.00	-6.53	-11.07	-6.71	-1.19	0.21	3.75	2.90	-0.03	-0.64	-3.23	-11.55	-3.47	-12.91
135.00	-6.56	-11.07	-6.38	-3.31	0.31	1.52	1.69	-0.44	-2.38	-3.97	-8.86	-2.60	-12.91
150.00	-6.75	-8.74	-6.67	-3.44	-1.32	1.54	-0.79	-0.63	-3.38	-3.65	-6.06	-3.69	-12.91
165.00	-6.98	-7.58	-5.60	-2.73	0.32	0.67	0.54	0.95	-1.96	-6.08	-5.69	-7.56	-12.91
180.00	-7.04	-8.15	-8.71	-4.71	-1.99	0.84	-0.34	-0.34	-3.42	-5.55	-7.54	-6.95	-12.91



195.00	-7.08	-9.50	-8.06	-7.14	-7.12	-3.40	-6.64	-3.73	-6.44	-8.57	-7.37	-6.43	-12.91
210.00	-6.77	-9.92	-8.69	-8.35	-6.06	-2.19	-3.33	-4.89	-7.75	-5.15	-7.17	-8.82	-12.91
225.00	-6.36	-8.58	-7.57	-3.22	-6.09	-3.17	-3.98	-4.46	-4.99	-4.40	-6.14	-4.38	-12.91
240.00	-6.47	-7.83	-5.67	-3.14	-0.17	0.80	-3.77	-6.02	-2.80	-5.91	-2.28	-2.13	-12.91
255.00	-6.69	-8.52	-5.87	-0.36	0.74	-0.02	2.55	-1.94	-1.25	-2.83	-3.84	-2.81	-12.91
270.00	-6.67	-9.42	-6.75	1.06	1.30	3.22	4.03	-1.51	-1.97	-4.67	-2.73	-4.92	-12.91
285.00	-6.94	-10.46	-7.87	0.81	0.56	0.95	-0.03	-3.81	-2.44	-4.86	-2.26	-5.85	-12.91
300.00	-6.87	-11.75	-9.99	-4.72	-1.54	-3.01	0.18	-2.36	-15.50	-7.48	-3.95	-4.49	-12.91
315.00	-6.39	-12.39	-10.69	-6.24	-4.44	-1.73	-6.73	-9.24	-6.78	-6.83	-6.21	-2.19	-12.91
330.00	-6.24	-11.95	-9.68	-5.61	-7.19	-4.98	-2.70	-3.84	-7.87	-9.33	-5.84	-1.39	-12.91
345.00	-6.13	-10.46	-10.42	-6.48	-2.87	-1.96	-3.68	-4.24	-5.35	-8.08	-5.97	-2.65	-12.91

Ant3													
Freq	6175.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-8.09	-8.28	-8.23	-10.8	-12.69	-10.85	-7.98	-5.1	-9.55	-12.04	-14.41	-5.45	-14.8
15.00	-7.98	-9.31	-9.61	-9.31	-12.86	-14.01	-13.21	-6.03	-8.99	-10.58	-8.45	-4.81	-14.8
30.00	-7.81	-11.02	-7.41	-9.08	-12.85	-5.5	-7.02	-6.84	-11.09	-9.77	-14.81	-6.14	-14.8
45.00	-7.6	-10.42	-6.05	-10.39	-9.75	-5.18	-4.97	-7.53	-8.78	-13.93	-13.48	-6.94	-14.8
60.00	-7.5	-8.67	-6.5	-10.43	-11.39	-5.01	-4.01	-12.18	-10.23	-21.74	-9.67	-5.84	-14.8
75.00	-7.54	-7.97	-5.76	-8.65	-8.05	-3.08	2.42	-5.48	-4.57	-9.67	-10.53	-6.29	-14.8
90.00	-7.78	-8.52	-5.75	-11.69	-8.09	1.24	2.03	-6.66	-10.37	-6.64	-12.39	-9.41	-14.8
105.00	-8.15	-8.73	-5.26	-6.99	-4.48	-1.88	1.68	-1.4	-9.67	-8.44	-7.55	-14.8	-14.8
120.00	-8.01	-8.46	-5.03	-8.49	-6.25	0.3	1.29	1.34	-2.16	-4.57	-5.88	-12.29	-14.8
135.00	-7.71	-7.8	-11.2	-9.76	-4.62	2.02	1.2	-0.03	-4.71	-7.2	-8	-7.36	-14.8
150.00	-7.53	-8.39	-8.1	-16.62	-16.55	-4.82	2.91	1.58	-1.64	-3.9	-7.35	-4.01	-14.8
165.00	-7.7	-9.34	-16.49	-7.8	-7.68	-1.03	3.18	1.56	-4.57	-5.17	-9.2	-3.19	-14.8
180.00	-7.82	-8.09	-8.37	-7.49	-4.91	-0.73	0.29	1.63	-0.82	-4.75	-6.5	-5.5	-14.8
195.00	-8.17	-7.55	-7.56	-7.06	-9.48	-0.71	0.63	-1.65	-4.33	-2.84	-7.71	-3.63	-14.8
210.00	-8.17	-6.41	-7.06	-6.49	-10.38	2.15	2.68	0.57	-9.06	-2.59	-14.27	-0.72	-14.8
225.00	-7.76	-5.81	-3.44	-8.94	-18.77	-1.47	2.77	-1.13	-7.9	-6.99	-13.65	-1.44	-14.8
240.00	-7.82	-5.81	-3.51	-7.55	-7.83	0.93	3.54	1.41	-7.85	-8.15	-14.89	-2.88	-14.8
255.00	-8.07	-6.04	-6.17	-7.09	-10.71	3.95	3.24	1.24	-2.51	-10.31	-15.81	-3.91	-14.8
270.00	-8.14	-6.88	-7.26	-8.31	-7.43	1.53	5.44	3.48	-3.62	-11.53	-11.8	-4.05	-14.8
285.00	-8	-9.32	-7.87	-6.53	-5.99	4.15	2.95	2.74	-6.06	-12.34	-8.91	-4.44	-14.8
300.00	-7.97	-11.99	-6.27	-6.13	-12.41	1.6	2.82	-0.47	-7.01	-10.38	-12.03	-3.65	-14.8
315.00	-7.65	-11.35	-7.17	-12.81	-9.53	-4.53	-1.2	-5.05	-13.49	-21.5	-11.39	-4.11	-14.8
330.00	-7.79	-10.11	-8.18	-3.76	-10.6	-3.89	-3.65	-3.69	-10.14	-12.16	-17.61	-7.47	-14.8
345.00	-7.9	-9.7	-8.71	-9.24	-8.11	-6.48	-5.69	-6.15	-9.94	-14.46	-11.8	-7.74	-14.8

Ant6													
Freq	6175.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00

0.00	-3.5	-6.13	-8.59	-10.3	-4.57	4.26	5.26	1.21	-11.14	-10.16	-18.34	-6.09	-13.65
15.00	-3.47	-6.81	-9.06	-14.09	-5.23	2.83	4.79	3.61	-4.05	-3.99	-10.79	-9.19	-13.65
30.00	-3.55	-5.34	-10.15	-15.79	-8.13	-0.45	0.94	-3.24	-12.43	-7.86	-7.27	-3.63	-13.65
45.00	-3.75	-4.52	-6.65	-10.5	-8.17	-6.62	-3.3	-7.39	-17.8	-12.73	-5.81	-3.27	-13.65
60.00	-3.64	-4.54	-6.14	-5.73	-11.43	-0.39	0.05	-2.31	-7.03	-11.21	-7.37	-5.51	-13.65
75.00	-3.3	-4.64	-5.96	-4.73	-12.09	-2.51	-3.34	-8.14	-7.05	-11.57	-10.21	-6.43	-13.65
90.00	-3.09	-4.47	-7.02	-3.47	-8.43	-6.99	1.16	-2.23	-1.15	-7.79	-8.95	-7.04	-13.65
105.00	-2.91	-4.14	-7.22	-5.16	-6.17	-4.25	0.79	-2.78	-2.8	-10.75	-9.91	-6.04	-13.65
120.00	-2.88	-4.11	-9.1	-6.64	-4.29	-0.65	0.4	-3.5	-3.85	-7.96	-7.62	-4.41	-13.65
135.00	-2.88	-4.82	-8.58	-9.25	-4.06	0.59	-2.38	-7.95	-10.97	-7.79	-5.8	-3.35	-13.65
150.00	-2.95	-6.38	-4.93	-8.01	-9.72	-7.07	-11.55	-6.18	-8.24	-11.59	-7.64	-4.14	-13.65
165.00	-3.04	-7.24	-3.44	-5.89	-12.85	-6.36	-5.97	-6.66	-8.45	-9.53	-13.24	-7.05	-13.65
180.00	-3.05	-5.81	-7.6	-7.13	-8.11	-1.89	0.18	-1.43	-4.09	-7.08	-12.06	-13.07	-13.65
195.00	-3.08	-5.52	-7.22	-9.31	-8.64	-7.45	-6.59	-4.92	-11.63	-12.45	-7.26	-10.61	-13.65
210.00	-3.12	-6.86	-10.6	-8.19	-9.72	-8.39	-1.3	-4.15	-11.58	-16.73	-15.5	-8.28	-13.65
225.00	-3.05	-7.4	-3.98	-4.03	-4.92	-2.39	-1.84	-2.92	-7.44	-15.32	-11.44	-11.35	-13.65
240.00	-3.13	-5.39	-4.13	-8.55	-7.75	-1.1	1.03	-0.62	-6.39	-8.63	-13.36	-13.65	-13.65
255.00	-3.31	-3.43	-2.54	-10.89	-4.31	-0.03	5.59	0.84	-3.59	-14.79	-6.45	-9.91	-13.65
270.00	-3.45	-2.81	-1.16	-5.52	-4.05	-0.17	3.15	1.15	-4.65	-17.33	-5.56	-6.97	-13.65
285.00	-3.67	-2.71	-1.22	-4.79	-8.36	-2.94	2.45	0.04	-4.85	-9.48	-7.61	-6.62	-13.65
300.00	-3.83	-3.25	-2.61	-7.56	-7.62	-2.24	0.82	-0.9	-7.02	-10.59	-12.39	-9.05	-13.65
315.00	-3.96	-3.49	-4.56	-9.6	-7.9	0.13	4.12	1.59	-10.44	-14.54	-15.99	-9.72	-13.65
330.00	-3.85	-3.5	-8.13	-14.97	-18.16	2.69	5.12	2.59	-2.07	-7.29	-10.23	-4.76	-13.65
345.00	-3.58	-4	-12.26	-14.83	-11.09	-1.79	2.26	1.42	-6.77	-10.57	-11.38	-3.03	-13.65

6175MHz Composite Gain (1SS)													
Freq	6175.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-2.48	-4.13	-5.40	-7.54	-4.70	2.65	3.96	1.63	-7.30	-8.04	-13.14	-2.75	-11.20
15.00	-2.43	-4.96	-6.32	-8.36	-5.22	0.99	2.81	3.07	-3.16	-3.66	-6.53	-3.72	-11.20
30.00	-2.41	-4.71	-5.66	-8.79	-7.16	0.40	0.85	-1.84	-8.72	-5.75	-7.24	-1.78	-11.20
45.00	-2.45	-3.97	-3.33	-7.43	-5.91	-2.86	-1.08	-4.45	-9.16	-10.30	-5.81	-1.90	-11.20
60.00	-2.35	-3.35	-3.31	-4.76	-8.40	0.61	1.27	-2.90	-5.47	-11.96	-5.43	-2.66	-11.20
75.00	-2.15	-3.14	-2.85	-3.46	-6.83	0.22	3.02	-3.70	-2.71	-7.56	-7.36	-3.35	-11.20
90.00	-2.11	-3.25	-3.35	-3.63	-5.25	1.08	4.62	-1.16	-1.58	-4.19	-7.49	-5.13	-11.20
105.00	-2.13	-3.12	-3.17	-3.02	-2.27	0.03	4.26	0.95	-2.56	-6.51	-5.64	-6.35	-11.20
120.00	-2.06	-3.01	-3.82	-4.51	-2.20	2.85	3.87	2.26	0.05	-3.09	-3.70	-4.48	-11.20
135.00	-1.95	-3.17	-6.78	-6.49	-1.33	4.34	2.60	-0.11	-4.28	-4.48	-3.82	-2.12	-11.20
150.00	-1.93	-4.32	-3.36	-8.28	-9.47	-2.86	1.41	1.55	-1.32	-3.91	-4.48	-1.06	-11.20
165.00	-2.05	-5.22	-4.70	-3.78	-6.88	-0.28	2.77	1.40	-3.28	-4.07	-7.98	-1.90	-11.20
180.00	-2.10	-3.87	-4.97	-4.30	-3.35	1.72	3.25	3.24	0.71	-2.83	-5.83	-5.47	-11.20
195.00	-2.25	-3.47	-4.38	-5.10	-6.04	-0.43	0.76	-0.12	-4.22	-3.37	-4.47	-3.43	-11.20
210.00	-2.27	-3.62	-5.64	-4.29	-7.03	1.40	3.93	1.54	-7.22	-4.04	-11.85	-0.69	-11.20

225.00	-2.08	-3.56	-0.70	-3.13	-6.32	1.09	3.78	1.03	-4.66	-7.18	-9.46	-2.04	-11.20
240.00	-2.15	-2.59	-0.80	-5.03	-4.78	2.98	5.39	3.46	-4.08	-5.38	-11.08	-3.68	-11.20
255.00	-2.36	-1.63	-1.16	-5.77	-3.92	5.20	7.50	4.05	-0.02	-9.25	-6.92	-3.39	-11.20
270.00	-2.47	-1.60	-0.67	-3.79	-2.57	3.73	7.38	5.40	-1.11	-10.94	-5.12	-2.38	-11.20
285.00	-2.56	-2.39	-0.91	-2.61	-4.08	4.32	5.71	4.50	-2.42	-7.78	-5.23	-2.45	-11.20
300.00	-2.65	-3.55	-1.24	-3.81	-6.68	2.90	4.89	2.33	-4.00	-7.47	-9.20	-2.93	-11.20
315.00	-2.60	-3.55	-2.76	-8.05	-5.67	1.12	4.87	1.90	-8.82	-14.33	-10.38	-3.46	-11.20
330.00	-2.59	-3.18	-5.14	-4.66	-10.57	3.02	4.81	3.02	-2.19	-6.38	-10.15	-3.00	-11.20
345.00	-2.46	-3.38	-7.29	-8.58	-6.46	-0.81	2.17	1.45	-5.20	-9.29	-8.58	-2.06	-11.20

6175MHz Composite Gain (2SS)													
Freq	6175.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-5.21	-7.07	-8.41	-10.54	-6.96	1.38	2.45	-0.89	-10.27	-11.00	-15.94	-5.76	-14.19
15.00	-5.16	-7.88	-9.33	-11.07	-7.55	-0.09	1.85	1.05	-5.85	-6.14	-9.46	-6.47	-14.19
30.00	-5.18	-7.31	-8.57	-11.25	-9.88	-2.28	-1.43	-4.68	-11.71	-8.71	-9.58	-4.71	-14.19
45.00	-5.26	-6.54	-6.34	-10.44	-8.89	-5.84	-4.06	-7.46	-11.28	-13.29	-8.13	-4.73	-14.19
60.00	-5.15	-6.13	-6.32	-7.47	-11.41	-2.11	-1.52	-4.89	-8.34	-13.85	-8.37	-5.67	-14.19
75.00	-4.92	-5.99	-5.86	-6.26	-9.62	-2.79	0.43	-6.61	-5.64	-10.52	-10.37	-6.36	-14.19
90.00	-4.83	-6.04	-6.34	-5.87	-8.26	-1.16	1.62	-3.90	-3.67	-7.18	-10.34	-8.07	-14.19
105.00	-4.78	-5.85	-6.13	-5.98	-5.24	-2.91	1.26	-2.04	-5.00	-9.44	-8.57	-8.51	-14.19
120.00	-4.73	-5.76	-6.60	-7.47	-5.16	-0.15	0.87	-0.44	-2.92	-5.94	-6.66	-6.76	-14.19
135.00	-4.66	-6.06	-9.70	-9.50	-4.33	1.36	-0.23	-2.39	-6.80	-7.48	-6.76	-4.91	-14.19
150.00	-4.66	-7.27	-6.23	-10.46	-11.91	-5.80	0.05	-0.76	-3.79	-6.23	-7.49	-4.07	-14.19
165.00	-4.77	-8.16	-6.24	-6.74	-9.54	-2.92	0.67	-0.84	-6.09	-6.82	-10.77	-4.70	-14.19
180.00	-4.81	-6.80	-7.97	-7.31	-6.22	-1.27	0.24	0.36	-2.15	-5.76	-8.45	-7.81	-14.19
195.00	-4.92	-6.42	-7.39	-8.04	-9.04	-2.89	-1.63	-2.98	-6.60	-5.40	-7.48	-5.85	-14.19
210.00	-4.95	-6.63	-8.48	-7.26	-10.04	-0.49	1.13	-1.18	-10.14	-5.44	-14.84	-3.03	-14.19
225.00	-4.80	-6.53	-3.70	-5.83	-7.75	-1.91	1.05	-1.93	-7.66	-9.41	-12.41	-4.03	-14.19
240.00	-4.87	-5.59	-3.81	-8.02	-7.79	0.03	2.46	0.51	-7.06	-8.38	-14.06	-5.54	-14.19
255.00	-5.07	-4.54	-3.99	-8.59	-6.42	2.40	4.57	1.04	-3.02	-12.00	-8.98	-5.95	-14.19
270.00	-5.19	-4.38	-3.22	-6.69	-5.42	0.76	4.44	2.47	-4.10	-13.53	-7.64	-5.27	-14.19
285.00	-5.32	-4.86	-3.38	-5.57	-7.02	1.91	2.71	1.60	-5.41	-10.68	-8.21	-5.39	-14.19
300.00	-5.42	-5.72	-4.07	-6.79	-9.39	0.09	1.93	-0.68	-7.01	-10.48	-12.21	-5.56	-14.19
315.00	-5.42	-5.84	-5.67	-10.91	-8.64	-1.60	2.23	-0.57	-11.70	-16.75	-13.11	-6.07	-14.19
330.00	-5.39	-5.65	-8.15	-6.45	-12.91	0.54	2.65	0.50	-4.45	-9.08	-12.51	-5.91	-14.19
345.00	-5.22	-5.98	-10.13	-11.19	-9.35	-3.53	-0.10	-0.89	-8.07	-12.09	-11.58	-4.78	-14.19

Ant3													
Freq	6475.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-10.56	-9.54	-8.08	-19.74	-11.76	-6.75	-6.3	-4.23	-7.47	-11.77	-10.4	-7.28	-12.17
15.00	-10.26	-7.98	-8.5	-11.65	-12.56	-7.4	-6.45	-6.56	-12.62	-11.23	-9.73	-6.01	-12.17



30.00	-9.7	-6.9	-8.3	-10.25	-8.88	-3.22	-5.75	-10.45	-16.11	-16.73	-12.45	-8.67	-12.17
45.00	-9.31	-7.79	-9.44	-10.89	-8.29	-4.83	-6.07	-10.99	-9.08	-15.6	-14.71	-10.82	-12.17
60.00	-9.07	-8.81	-12.5	-12.16	-13.75	-4.64	-6.25	-8.41	-16.2	-13.33	-9.99	-7.74	-12.17
75.00	-9.31	-9.23	-9.93	-19.82	-6.29	-1.82	2.07	-7.42	-8.58	-11.14	-10.36	-7.85	-12.17
90.00	-9.33	-9.04	-5.29	-12.82	-8.7	0.16	1.61	-4.62	-17.75	-10.37	-10.64	-9.84	-12.17
105.00	-9.48	-7.9	-3.86	-10.02	-3.87	-4.72	1.03	-3.63	-14.97	-10.97	-5.97	-9.73	-12.17
120.00	-9.77	-6	-6.86	-11.02	-5.7	1.22	2.39	-0.72	-2.83	-5.06	-4.33	-7.95	-12.17
135.00	-9.74	-5.11	-18.76	-8.59	-4.28	0.38	1.35	-1.35	-4.89	-9.16	-7.57	-7.73	-12.17
150.00	-9.55	-6.09	-8.36	-10.4	-9.64	-5.77	3.13	1.88	-1.37	-1.08	-8.95	-6.78	-12.17
165.00	-9.48	-7.64	-5.2	-7.78	-4.1	-4.03	0.68	1.39	-2.57	-4.15	-10.62	-6.4	-12.17
180.00	-9.24	-8.83	-7.09	-6.66	-8.64	-0.68	0.6	-0.66	-2.15	-3.51	-4.82	-8.05	-12.17
195.00	-9.51	-7.13	-7.84	-11.85	-18.49	-5.05	0.88	-0.22	-6.58	-4.87	-4.47	-7.91	-12.17
210.00	-9.86	-6.26	-10.75	-7.19	-6.18	0.15	2.03	-0.22	-5.66	-8.03	-12.76	-6.56	-12.17
225.00	-10.06	-7.12	-7.89	-11.73	-9.13	-0.92	3.35	0.29	-6.67	-7.38	-16.8	-7.32	-12.17
240.00	-10.47	-8.67	-11.42	-8.34	-9.65	3.2	0.63	-2.31	-6.39	-8.56	-11.27	-9.26	-12.17
255.00	-10.92	-8.72	-9.24	-4.54	-5.36	2.61	5.61	2.5	-4.5	-3.77	-9.74	-9.71	-12.17
270.00	-10.45	-8.2	-8.38	-7	-5.26	2.42	5.79	3.22	-3.86	-4.03	-8.53	-10.18	-12.17
285.00	-10.29	-9.1	-8.25	-14.47	-4.09	1.3	5.95	1.66	-4	-6.7	-7.84	-8.5	-12.17
300.00	-9.78	-12.14	-12.59	-7.75	-7.28	1.54	0.96	-1.37	-10.52	-19.27	-9.1	-8.67	-12.17
315.00	-9.6	-13.38	-9.46	-9.65	-11.73	-5.56	-2.65	-5.97	-10.32	-12.06	-13.93	-7.87	-12.17
330.00	-9.88	-9.67	-10.48	-7.44	-10.68	-3.56	-2.67	-4.73	-9.19	-13.45	-15.59	-9.31	-12.17
345.00	-10.69	-8.75	-7.05	-7.5	-9.43	-6.23	-4.75	-5.58	-10.27	-20.4	-14.22	-12.17	-12.17

Ant6													
Freq	6475.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-9.26	-14.57	-16.25	-8.36	-2.52	1.58	1.3	-4.4	-8.7	-10.85	-13.46	-4.28	-13.71
15.00	-9.06	-12.75	-11.13	-10.41	-4.89	0.47	1.85	-0.34	-4.25	-5.96	-14.9	-5.56	-13.71
30.00	-9.04	-9.31	-10.04	-14.29	-11.62	-3.97	-0.17	-5.78	-6.3	-6.78	-10.07	-13.71	-13.71
45.00	-9.3	-7.9	-11.32	-9.09	-9.8	-6.39	-2.36	-6.99	-11.8	-11.02	-8.3	-9.38	-13.71
60.00	-9.41	-7.94	-6.57	-7.31	-11.78	-1.69	1.54	-2.84	-10.03	-9.26	-6.06	-11.24	-13.71
75.00	-9.47	-7.83	-6.64	-6.84	-10.49	-4	-2.52	-7.69	-10.7	-9.92	-8.5	-8.71	-13.71
90.00	-9.44	-8.19	-8.99	-7.47	-10.38	-2.33	3.47	-7.73	-4.16	-16.4	-8.39	-5.57	-13.71
105.00	-9.9	-8.73	-9.02	-11.68	-10.33	-2.45	0.47	-8.8	-4.48	-17.11	-9.24	-4.83	-13.71
120.00	-10.55	-8.53	-8.37	-15.27	-7.99	-0.28	2.29	-1.83	-5.64	-9.16	-5.25	-5.94	-13.71
135.00	-11.16	-8.13	-8.07	-9.01	-9.06	-0.3	-2.21	-3.44	-10.89	-14.39	-6.05	-10.1	-13.71
150.00	-11.3	-7.73	-6.8	-7.27	-8.42	-12.89	-10.22	-10.92	-16.7	-12.9	-8.43	-12.85	-13.71
165.00	-11.15	-7.9	-7.96	-10.43	-10.89	-4.14	-3.87	-4.66	-11.94	-12.97	-16.52	-11.56	-13.71
180.00	-11.19	-10.85	-7.32	-8.58	-5.08	0.27	0.76	-2.64	-10.33	-12.91	-15.93	-10.34	-13.71
195.00	-11.13	-17.84	-16.76	-7.66	-13.91	-4.01	-3.22	-6.36	-15.29	-11.51	-11.28	-10.56	-13.71
210.00	-11.46	-10.17	-6.35	-5.78	-13.88	-4.34	-2.35	-2.33	-9.55	-10.34	-13.23	-11.59	-13.71
225.00	-11.27	-6.38	-5.19	-11.84	-9.2	-1.83	-0.88	-2.86	-8.46	-10.5	-17.4	-9.68	-13.71
240.00	-11.22	-6.01	-4.67	-11.99	-11.14	0.12	4.54	1.09	-5.52	-11.1	-9.52	-10.17	-13.71



255.00	-11.13	-6.18	-4.98	-5.42	-13.57	3.74	4.5	3.66	-2.13	-8.64	-6.89	-8.89	-13.71
270.00	-10.93	-5.96	-5.85	-5.13	-14.16	-1.34	3.03	3.52	-6.39	-10.62	-10.78	-6.06	-13.71
285.00	-10.05	-5.67	-5.09	-5.91	-22.26	-0.36	3.29	1.41	-6.11	-8.19	-10.43	-4.4	-13.71
300.00	-9.65	-5.76	-4.86	-7.76	-5.35	-2.29	3.53	1.12	-6.41	-9.1	-14.67	-5.54	-13.71
315.00	-9.37	-5.73	-7.93	-11.96	-13.33	1.59	4.24	-0.55	-16.08	-9.63	-22.13	-8.17	-13.71
330.00	-9.36	-6.69	-6.73	-12.27	-3.61	1.05	1.24	-2.23	-9.84	-16.02	-12.93	-8.77	-13.71
345.00	-9.45	-9.64	-7.35	-10.37	-8.28	-1.32	1.27	-2.32	-5.59	-4.36	-11.22	-6.31	-13.71

6475MHz Composite Gain (1SS)													
Freq	6475.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-6.88	-8.69	-8.23	-9.30	-2.95	1.39	1.32	-1.30	-5.05	-8.29	-8.79	-2.64	-9.90
15.00	-6.63	-7.03	-6.71	-8.00	-4.89	0.41	1.67	0.11	-4.45	-5.19	-8.93	-2.77	-9.90
30.00	-6.35	-5.01	-6.12	-9.03	-7.13	-0.58	0.49	-4.79	-6.88	-7.39	-8.17	-7.82	-9.90
45.00	-6.29	-4.83	-7.32	-6.93	-6.00	-2.56	-1.01	-5.75	-7.32	-10.00	-7.92	-7.06	-9.90
60.00	-6.23	-5.35	-6.03	-6.39	-9.70	-0.03	1.50	-2.18	-9.57	-8.05	-4.79	-6.30	-9.90
75.00	-6.38	-5.49	-5.12	-8.09	-5.13	0.17	3.09	-4.54	-6.57	-7.50	-6.37	-5.26	-9.90
90.00	-6.37	-5.59	-3.93	-6.73	-6.49	2.01	5.60	-3.03	-5.52	-9.86	-6.43	-4.43	-9.90
105.00	-6.68	-5.29	-3.05	-7.80	-3.50	-0.50	3.76	-2.83	-5.22	-10.50	-4.44	-3.93	-9.90
120.00	-7.14	-4.16	-4.57	-9.88	-3.76	3.51	5.35	1.75	-1.11	-3.86	-1.77	-3.88	-9.90
135.00	-7.41	-3.48	-8.85	-5.79	-3.33	3.06	2.76	0.68	-4.37	-8.38	-3.77	-5.82	-9.90
150.00	-7.37	-3.86	-4.53	-5.68	-6.00	-5.61	1.81	0.66	-3.01	-2.11	-5.68	-6.28	-9.90
165.00	-7.26	-4.76	-3.46	-5.99	-3.84	-1.07	1.71	1.89	-3.04	-4.48	-10.07	-5.59	-9.90
180.00	-7.15	-6.77	-4.19	-4.56	-3.67	2.82	3.69	1.42	-2.30	-3.99	-5.70	-6.11	-9.90
195.00	-7.27	-7.92	-8.19	-6.49	-12.89	-1.50	2.08	0.25	-6.88	-4.56	-4.21	-6.12	-9.90
210.00	-7.61	-4.99	-5.26	-3.45	-6.19	1.20	3.12	1.80	-4.38	-6.10	-9.98	-5.71	-9.90
225.00	-7.63	-3.73	-3.43	-8.77	-6.15	1.65	4.50	1.87	-4.51	-5.79	-14.08	-5.41	-9.90
240.00	-7.83	-4.23	-4.39	-6.96	-7.35	4.81	5.81	2.57	-2.93	-6.73	-7.34	-6.69	-9.90
255.00	-8.01	-4.35	-3.84	-1.96	-5.52	6.20	8.08	6.11	-0.22	-2.86	-5.19	-6.28	-9.90
270.00	-7.68	-4.00	-4.01	-3.00	-5.61	3.75	7.53	6.38	-2.02	-3.70	-6.57	-4.87	-9.90
285.00	-7.16	-4.21	-3.52	-6.17	-6.09	3.52	7.73	4.55	-1.98	-4.40	-6.03	-3.20	-9.90
300.00	-6.70	-5.37	-4.88	-4.74	-3.25	2.84	5.35	2.97	-5.21	-9.76	-8.44	-3.95	-9.90
315.00	-6.47	-5.73	-5.65	-7.72	-9.48	1.74	4.47	0.17	-9.72	-7.75	-14.09	-5.01	-9.90
330.00	-6.61	-5.04	-5.39	-6.51	-3.43	2.06	2.51	-0.38	-6.50	-11.63	-11.15	-6.03	-9.90
345.00	-7.04	-6.17	-4.19	-5.81	-5.83	-0.42	1.78	-0.79	-4.61	-6.10	-9.58	-5.74	-9.90

6475MHz Composite Gain (2SS)													
Freq	6475.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-9.86	-11.36	-10.47	-11.07	-5.04	-0.84	-1.01	-4.31	-8.04	-11.29	-11.67	-5.53	-12.87
15.00	-9.62	-9.74	-9.62	-10.99	-7.21	-1.88	-0.56	-2.42	-6.67	-7.84	-11.59	-5.78	-12.87
30.00	-9.36	-7.94	-9.08	-11.82	-10.04	-3.58	-2.12	-7.52	-8.88	-9.37	-11.10	-10.50	-12.87
45.00	-9.30	-7.84	-10.28	-9.90	-8.98	-5.54	-3.83	-8.54	-10.23	-12.73	-10.42	-10.04	-12.87



60.00	-9.24	-8.35	-8.59	-9.09	-12.65	-2.92	-0.80	-4.79	-12.10	-10.83	-7.59	-9.15	-12.87
75.00	-9.39	-8.47	-7.98	-9.64	-7.90	-2.77	0.36	-7.55	-9.51	-10.49	-9.33	-8.26	-12.87
90.00	-9.38	-8.59	-6.76	-9.37	-9.46	-0.91	2.64	-5.90	-6.98	-12.41	-9.37	-7.20	-12.87
105.00	-9.68	-8.30	-5.71	-10.77	-6.00	-3.44	0.76	-5.49	-7.12	-13.03	-7.30	-6.62	-12.87
120.00	-10.14	-7.08	-7.55	-12.64	-6.70	0.53	2.34	-1.24	-4.01	-6.64	-4.77	-6.83	-12.87
135.00	-10.39	-6.36	-10.72	-8.79	-6.04	0.05	-0.08	-2.27	-6.93	-11.03	-6.74	-8.76	-12.87
150.00	-10.34	-6.83	-7.51	-8.56	-8.99	-8.01	0.32	-0.91	-4.25	-3.81	-8.68	-8.83	-12.87
165.00	-10.24	-7.77	-6.36	-8.91	-6.28	-4.08	-1.02	-0.66	-5.11	-6.62	-12.64	-8.25	-12.87
180.00	-10.11	-9.72	-7.20	-7.51	-6.51	-0.18	0.68	-1.54	-4.55	-6.05	-7.51	-9.05	-12.87
195.00	-10.24	-9.79	-10.33	-9.27	-15.62	-4.50	-0.70	-2.28	-9.04	-7.03	-6.66	-9.04	-12.87
210.00	-10.59	-7.79	-8.02	-6.43	-8.51	-1.54	0.37	-1.15	-7.18	-9.03	-12.99	-8.38	-12.87
225.00	-10.62	-6.73	-6.33	-11.78	-9.16	-1.35	1.73	-1.01	-7.47	-8.67	-17.09	-8.34	-12.87
240.00	-10.83	-7.14	-6.85	-9.79	-10.33	1.93	3.01	-0.29	-5.93	-9.65	-10.31	-9.69	-12.87
255.00	-11.02	-7.27	-6.61	-4.96	-7.76	3.21	5.09	3.12	-3.16	-5.56	-8.09	-9.28	-12.87
270.00	-10.68	-6.94	-6.93	-5.97	-7.74	0.93	4.63	3.37	-4.94	-6.18	-9.51	-7.65	-12.87
285.00	-10.17	-7.05	-6.39	-8.35	-7.03	0.55	4.82	1.54	-4.93	-7.38	-8.94	-5.98	-12.87
300.00	-9.71	-7.87	-7.19	-7.75	-6.21	0.03	2.43	0.05	-8.00	-11.71	-11.05	-6.83	-12.87
315.00	-9.48	-8.05	-8.63	-10.65	-12.46	-0.65	2.04	-2.46	-12.31	-10.68	-16.33	-8.02	-12.87
330.00	-9.61	-7.93	-8.21	-9.22	-5.84	-0.67	-0.29	-3.30	-9.50	-14.55	-14.06	-9.03	-12.87
345.00	-10.03	-9.17	-7.20	-8.70	-8.82	-3.12	-0.77	-3.65	-7.33	-7.26	-12.47	-8.32	-12.87

Ant3													
Freq	6725.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-6.47	-10.69	-9.71	-11.44	-6.32	-1.44	-2.42	-4.64	-8.52	-6.59	-10.59	-9.7	-19.28
15.00	-6.48	-13.23	-10.3	-14.59	-10.94	-6.23	-3.64	-5.69	-7.48	-18.55	-6.19	-6.75	-19.28
30.00	-6.37	-10.87	-10.69	-9.32	-9.98	-1.94	-2.71	-8.83	-10.8	-11.87	-10.2	-7.07	-19.28
45.00	-5.93	-7.16	-7.72	-9.54	-7.36	-2.47	-4.48	-10.77	-12.51	-10.55	-12.38	-9.08	-19.28
60.00	-5.57	-5.07	-8.68	-13.17	-18.89	-8.14	-12.2	-8.95	-17.66	-16.11	-7.43	-6.45	-19.28
75.00	-5.56	-4.12	-9.57	-12.54	-5.48	-0.82	1.6	-9.14	-9.02	-10.74	-9.13	-5.85	-19.28
90.00	-5.63	-3.8	-8.75	-10.05	-6.08	1.29	1.45	-5.79	-17.22	-20.86	-9.5	-8.83	-19.28
105.00	-5.81	-3.97	-8.29	-8.21	-2.21	-8.24	-0.61	-2.56	-9.74	-9.21	-4.51	-8.52	-19.28
120.00	-5.76	-4.52	-15.5	-10.24	-3.36	3.51	3.47	-1.54	-2.99	-5.17	-3.72	-7.22	-19.28
135.00	-5.63	-5.13	-7.69	-9.83	-5.99	-0.58	2.77	-1.17	-4.46	-8.05	-11.7	-7.05	-19.28
150.00	-5.33	-6.25	-4.23	-5.69	-3.2	-1.68	2.05	1.72	-1.91	-1.86	-5.46	-7.74	-19.28
165.00	-5.5	-8.68	-7.18	-6.44	-5.12	-2.33	0.06	1.34	-4.4	-6.19	-3.3	-8.57	-19.28
180.00	-5.57	-8.76	-13.61	-15.17	-9.52	-1	1.51	-0.47	-6.08	-7.87	-3.89	-8.89	-19.28
195.00	-5.83	-7.93	-12.31	-16.17	-9.77	-4.79	1.96	1.41	-5.25	-10.76	-5.14	-6.71	-19.28
210.00	-5.94	-9.19	-16.44	-8.84	-6.54	-1.56	1.92	-1.68	-4.94	-8.01	-9.38	-5.65	-19.28
225.00	-6.16	-12.46	-19.16	-11.82	-9.65	-0.45	3.05	1.03	-7.15	-7.63	-11.38	-5.35	-19.28
240.00	-6.15	-13.09	-9.94	-5.14	-4.79	-0.08	1.41	-1.32	-12.12	-7.68	-11.72	-6.83	-19.28
255.00	-6.24	-12.78	-7.75	-3.52	-2.56	1.65	2.95	0.06	-7.21	-4.98	-13.37	-7.88	-19.28
270.00	-6.4	-12.85	-8.06	-5.97	-7.72	4.77	6.32	3.7	-4.17	-5	-9.36	-7.09	-19.28

285.00	-6.5	-11.9	-9.31	-8.51	-5.94	2.06	5.7	2.37	-2.43	-2.94	-10.04	-5.23	-19.28
300.00	-6.57	-11.23	-8.97	-15.43	-9.52	-0.28	2.67	-0.2	-9.85	-8.57	-8.6	-5.76	-19.28
315.00	-6.51	-11.61	-11.48	-7.02	-10.11	-2.4	-2.59	-6.07	-13.3	-14.72	-11.66	-6.96	-19.28
330.00	-6.44	-12.39	-9.24	-9.12	-13.19	-7.59	-6.04	-4.94	-8.61	-11.92	-21.95	-8.51	-19.28
345.00	-6.3	-10.73	-10.61	-7.33	-10.31	-3.04	-2.78	-9.23	-11.95	-12.94	-15.92	-19.28	-19.28

Ant6													
Freq	6725.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-15.69	-10.03	-11.66	-6.07	-2.24	-0.54	-0.87	-2.87	-8.89	-9.36	-10.99	-4.79	-16.37
15.00	-16.58	-13.11	-10.67	-8.25	-5.16	-4.29	-0.67	0.84	-1.71	-8.45	-7.76	-2.5	-16.37
30.00	-16.6	-14.22	-8.58	-17.25	-8.13	-2.43	0.14	-0.94	-3.23	-6.16	-11.05	-4.65	-16.37
45.00	-15.63	-14.52	-9.1	-6.72	-5.64	-3.01	1.79	-3.98	-8.43	-5.05	-6.35	-9.09	-16.37
60.00	-14.78	-13.15	-9	-4.66	-10.57	-0.97	3.87	-4.03	-11.65	-7.71	-8.48	-10.91	-16.37
75.00	-13.67	-10.5	-8.16	-3.3	-12.77	-4.9	-2.36	-9.13	-8.01	-5.06	-4.6	-16.37	-16.37
90.00	-13.45	-9.56	-7.87	-9.54	-9	-4.62	2.24	-4.89	-4.29	-7.94	-3.19	-11.38	-16.37
105.00	-13.46	-10.57	-9.3	-9.06	-13.34	-2.11	-3.32	-4.89	-2.59	-7.44	-5.96	-8.54	-16.37
120.00	-13.53	-15.08	-10.55	-14.89	-5.1	-0.99	4.15	-5.35	-4.39	-1.41	-8.31	-8.73	-16.37
135.00	-13.72	-17.87	-10.8	-8.51	-5.43	0.35	-1.16	-3.47	-13.04	-8.2	-14.01	-9.49	-16.37
150.00	-14.47	-13.91	-8.19	-13.62	-8.24	-8.2	-12.37	-13.14	-11.97	-12.1	-9.85	-8.42	-16.37
165.00	-14.09	-14.48	-8.38	-10.41	-10.35	-3.21	-4.65	-4.45	-6.54	-17.42	-9.26	-7.21	-16.37
180.00	-13.79	-15.83	-10.78	-6.08	-4.14	1.23	1.11	-1.34	-10.41	-10.26	-19.98	-6.2	-16.37
195.00	-13.52	-11.04	-10.7	-11.91	-6.69	-5.24	-8.99	-5.3	-7.21	-8.75	-11.42	-8.63	-16.37
210.00	-13.14	-8.56	-5.85	-7.15	-7.3	-5.26	-3.52	-7.14	-13.71	-11.43	-10.39	-7.56	-16.37
225.00	-13.75	-9.43	-8.19	-20.73	-5.54	-6.77	-4.27	-6.87	-9.17	-15.12	-10.5	-10.87	-16.37
240.00	-14.94	-10.46	-9.84	-16.49	-6.9	3.29	1.32	-2.68	-5.27	-12.73	-4.66	-9.83	-16.37
255.00	-15.38	-10.18	-6.23	-10.42	-3.44	1.51	2.38	-1.23	-2.9	-8.04	-3.69	-8.87	-16.37
270.00	-16.29	-9.32	-4.79	-6.69	-3.26	1.73	1.95	-5.47	-3.28	-11.7	-4.83	-8.12	-16.37
285.00	-16.71	-9.33	-5.6	-10.75	-11.41	1.15	-2.33	-4.36	-7.05	-10.23	-5.5	-7.44	-16.37
300.00	-15.84	-10.13	-7.19	-10.93	-15.78	1.84	3.73	1.31	-6.75	-4.63	-9.22	-7.52	-16.37
315.00	-15.67	-9.33	-6	-9.38	-3.26	0.35	2.89	1.17	-4.03	-14.34	-17.1	-7.32	-16.37
330.00	-15.28	-7.82	-8.31	-7.27	-3.34	1.47	3.77	0.51	-7.08	-12.62	-10.58	-4.93	-16.37
345.00	-14.83	-7.66	-8.7	-7.92	-5.96	-1.91	-0.11	-0.2	-1.68	-2.1	-6.26	-4.08	-16.37

6725MHz Composite Gain (1SS)													
Freq	6725.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-6.90	-7.34	-7.62	-5.34	-1.03	2.03	1.40	-0.70	-5.69	-4.85	-7.78	-3.89	-14.69
15.00	-7.13	-10.16	-7.47	-7.84	-4.57	-2.20	0.98	1.19	-1.11	-9.10	-3.93	-1.36	-14.69
30.00	-7.05	-9.37	-6.56	-9.40	-6.00	0.83	1.84	-1.01	-3.20	-5.54	-7.60	-2.77	-14.69
45.00	-6.48	-7.07	-5.37	-5.01	-3.45	0.27	2.22	-3.72	-7.22	-4.36	-5.84	-6.07	-14.69
60.00	-6.00	-5.19	-5.83	-4.90	-10.76	-0.82	2.13	-3.14	-11.13	-7.92	-4.93	-5.39	-14.69
75.00	-5.69	-3.73	-5.83	-3.73	-5.37	0.39	2.85	-6.12	-5.49	-4.43	-3.56	-6.60	-14.69

90.00	-5.68	-3.20	-5.29	-6.78	-4.41	1.84	4.86	-2.32	-5.53	-9.18	-2.77	-7.00	-14.69
105.00	-5.81	-3.65	-5.77	-5.61	-3.09	-1.63	1.15	-0.64	-2.44	-5.27	-2.19	-5.52	-14.69
120.00	-5.79	-5.27	-9.67	-9.25	-1.18	4.56	6.83	-0.23	-0.65	-0.08	-2.70	-4.93	-14.69
135.00	-5.76	-6.34	-6.10	-6.13	-2.70	2.91	4.04	0.77	-4.72	-5.11	-9.77	-5.17	-14.69
150.00	-5.74	-6.25	-2.98	-5.77	-2.35	-1.33	0.55	0.15	-2.55	-2.54	-4.37	-5.06	-14.69
165.00	-5.76	-8.09	-4.75	-5.19	-4.34	0.25	1.03	1.93	-2.39	-7.09	-2.77	-4.85	-14.69
180.00	-5.73	-8.58	-9.07	-6.48	-3.41	3.20	4.32	2.12	-4.97	-5.97	-5.63	-4.43	-14.69
195.00	-5.84	-6.34	-8.46	-10.77	-5.08	-2.00	1.12	1.70	-3.16	-6.69	-4.71	-4.61	-14.69
210.00	-5.80	-5.86	-6.61	-4.94	-3.90	-0.20	2.63	-0.98	-5.25	-6.54	-6.86	-3.54	-14.69
225.00	-6.14	-7.80	-9.04	-12.17	-4.34	-0.04	3.15	0.96	-5.09	-7.58	-7.92	-4.67	-14.69
240.00	-6.47	-8.67	-6.88	-6.07	-2.77	4.78	4.38	1.04	-5.03	-6.83	-4.48	-5.19	-14.69
255.00	-6.65	-8.37	-3.95	-3.29	0.02	4.59	5.68	2.45	-1.78	-3.37	-4.24	-5.35	-14.69
270.00	-7.00	-7.90	-3.26	-3.31	-2.20	6.39	7.42	3.28	-0.70	-4.71	-3.79	-4.58	-14.69
285.00	-7.17	-7.51	-4.25	-6.55	-5.24	4.63	5.59	2.65	-1.43	-2.83	-4.47	-3.25	-14.69
300.00	-7.01	-7.65	-5.02	-9.88	-9.09	3.85	6.23	3.60	-5.15	-3.37	-5.89	-3.59	-14.69
315.00	-6.92	-7.39	-5.30	-5.11	-3.02	2.09	3.59	1.29	-4.47	-11.52	-10.95	-4.13	-14.69
330.00	-6.77	-6.80	-5.75	-5.14	-3.93	1.08	3.19	1.22	-4.80	-9.25	-11.51	-3.53	-14.69
345.00	-6.55	-6.05	-6.59	-4.61	-4.86	0.55	1.67	-0.58	-2.37	-2.92	-6.80	-5.70	-14.69

6725MHz Composite Gain (2SS)													
Freq	6725.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-8.99	-10.35	-10.58	-7.97	-3.82	-0.97	-1.58	-3.67	-8.70	-7.76	-10.79	-6.59	-17.59
15.00	-9.09	-13.17	-10.48	-10.35	-7.15	-5.15	-1.91	-1.30	-3.70	-11.06	-6.90	-4.12	-17.59
30.00	-8.99	-12.23	-9.51	-11.68	-8.96	-2.18	-1.06	-3.30	-5.54	-8.14	-10.60	-5.69	-17.59
45.00	-8.50	-9.44	-8.36	-7.91	-6.42	-2.73	-0.30	-6.16	-10.01	-6.98	-8.39	-9.08	-17.59
60.00	-8.09	-7.45	-8.84	-7.10	-12.98	-3.22	0.97	-5.83	-13.69	-10.13	-7.92	-8.13	-17.59
75.00	-7.95	-6.23	-8.81	-5.82	-7.75	-2.40	0.06	-9.13	-8.49	-7.03	-6.30	-8.49	-17.59
90.00	-7.98	-5.79	-8.29	-9.79	-7.30	-0.73	1.86	-5.32	-7.08	-10.73	-5.29	-9.92	-17.59
105.00	-8.13	-6.12	-8.77	-8.61	-4.90	-4.17	-1.76	-3.57	-4.83	-8.24	-5.17	-8.53	-17.59
120.00	-8.10	-7.16	-12.35	-11.97	-4.14	1.82	3.82	-3.04	-3.63	-2.90	-5.43	-7.91	-17.59
135.00	-8.01	-7.92	-8.97	-9.12	-5.70	-0.09	1.24	-2.17	-6.91	-8.12	-12.70	-8.10	-17.59
150.00	-7.84	-8.57	-5.77	-8.05	-5.03	-3.82	-0.81	-1.15	-4.51	-4.48	-7.12	-8.07	-17.59
165.00	-7.95	-10.68	-7.74	-7.99	-6.99	-2.75	-1.69	-0.65	-5.34	-8.88	-5.33	-7.84	-17.59
180.00	-7.97	-10.99	-11.97	-8.59	-6.05	0.26	1.31	-0.88	-7.73	-8.90	-6.79	-7.34	-17.59
195.00	-8.16	-9.21	-11.43	-13.54	-7.96	-5.01	-0.71	-0.76	-6.12	-9.64	-7.23	-7.56	-17.59
210.00	-8.19	-8.86	-8.50	-7.91	-6.90	-3.03	0.00	-3.60	-7.41	-9.39	-9.86	-6.50	-17.59
225.00	-8.47	-10.69	-10.87	-14.31	-7.13	-2.55	0.78	-1.33	-8.04	-9.93	-10.92	-7.29	-17.59
240.00	-8.62	-11.58	-9.89	-7.84	-5.72	1.92	1.37	-1.95	-7.46	-9.51	-6.89	-8.08	-17.59
255.00	-8.75	-11.29	-6.92	-5.72	-2.98	1.58	2.67	-0.54	-4.54	-6.25	-6.26	-8.35	-17.59
270.00	-8.99	-10.74	-6.12	-6.32	-4.94	3.51	4.66	1.19	-3.70	-7.17	-6.53	-7.57	-17.59
285.00	-9.12	-10.43	-7.07	-9.49	-7.87	1.63	3.32	0.20	-4.15	-5.21	-7.20	-6.20	-17.59
300.00	-9.09	-10.65	-7.99	-12.62	-11.61	0.91	3.23	0.62	-8.03	-6.17	-8.90	-6.55	-17.59



315.00	-9.02	-10.32	-7.93	-8.04	-5.45	-0.81	0.96	-1.09	-6.55	-14.53	-13.58	-7.14	-17.59
330.00	-8.92	-9.53	-8.75	-8.10	-5.92	-1.03	1.19	-1.41	-7.78	-12.26	-13.28	-6.36	-17.59
345.00	-8.74	-8.93	-9.55	-7.61	-7.61	-2.44	-1.24	-2.70	-4.30	-4.77	-8.82	-6.96	-17.59

Ant3													
Freq	7025.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-5.95	-9.08	-9.22	-11.1	-5.59	-3.22	-5.17	-7.26	-13.82	-8.75	-13.55	-12.81	-12.81
15.00	-5.93	-10.13	-11.05	-28.61	-11.92	-5.17	-2.23	-5.76	-7.93	-14.5	-12.41	-8.86	-12.81
30.00	-5.68	-12.99	-9.85	-8.64	-9.88	-2.21	-5.05	-13.65	-12.65	-14.4	-12.02	-9.05	-12.81
45.00	-5.55	-12.04	-11.26	-8.49	-7.29	-4.62	-7.23	-9.66	-11.87	-10.68	-13.98	-10.94	-12.81
60.00	-5.81	-8.19	-7.45	-12	-9.04	-7.76	-11.37	-6.76	-13.46	-19.69	-7.66	-11.76	-12.81
75.00	-6.13	-5.97	-4	-6.64	-8.66	-0.11	-0.01	-10.36	-8.77	-7.56	-8.63	-11.04	-12.81
90.00	-6.14	-5.32	-4.26	-6.86	-5.94	0.73	-1.63	-7.38	-13.56	-12.05	-9.49	-11.6	-12.81
105.00	-6.15	-5.32	-7.27	-6.56	-3.59	-3.81	-4.93	-4.99	-5.1	-4.23	-3.31	-10.17	-12.81
120.00	-5.95	-5.32	-9.17	-14.99	-5.32	3.1	2.91	-4.52	-4.65	-4.86	-5.74	-8.04	-12.81
135.00	-5.97	-6.15	-9.73	-14.62	-8.83	0.09	1.88	-4.18	-2.55	-5.29	-9.29	-6.17	-12.81
150.00	-6.07	-9.4	-6.14	-6.4	-0.11	0.42	2.12	0.16	-4.08	-3.23	-6.31	-6.36	-12.81
165.00	-6.19	-10.52	-10.3	-7.3	-2.57	-3.5	-5.19	-1.49	-7.09	-6.54	-5.14	-9.46	-12.81
180.00	-6.1	-8.13	-7.81	-13.45	-2.87	-0.96	-2.55	-5.54	-8.74	-8.66	-2.81	-5.37	-12.81
195.00	-6.07	-8.52	-17.03	-12.8	-9.83	-1.13	0.44	-3.97	-9.92	-6.19	-11	-2.82	-12.81
210.00	-5.96	-12.53	-12.58	-11.25	-6.34	-2.65	1.62	-3.68	-10.33	-6.97	-4	-3.81	-12.81
225.00	-6.07	-14.69	-11.34	-10.37	-6.15	-0.42	0.89	-2.57	-16.12	-9.57	-5.85	-7.05	-12.81
240.00	-5.96	-11.98	-12.66	-5.86	-2.54	0.21	3.02	-3.54	-9.74	-5.32	-8.57	-8.94	-12.81
255.00	-5.86	-11.06	-16.12	-9.36	-5.78	3.4	4.08	-3.58	-9.57	-4.09	-8.05	-8.2	-12.81
270.00	-5.91	-10.89	-16.69	-12.56	-4.91	4.77	4.79	-1.99	-8.74	-5.34	-12.6	-7.8	-12.81
285.00	-5.85	-10.86	-15.5	-16.71	-5.35	4.49	4.17	-0.58	-8.7	-3.54	-10.59	-8.36	-12.81
300.00	-5.69	-11.66	-12.89	-14.54	-6.23	1.85	2.1	-3.03	-11.66	-11.38	-13.66	-8.88	-12.81
315.00	-5.64	-11.56	-10.31	-14.7	-11.55	-2.3	-3.84	-13.46	-11.07	-7.34	-15.41	-8.55	-12.81
330.00	-5.7	-12.9	-7.99	-9.19	-12.89	-7.37	-5.76	-7.22	-9.47	-18.3	-16.02	-7.26	-12.81
345.00	-5.8	-11.76	-9.29	-10.71	-11.93	-3.04	-6.26	-10.89	-12.55	-12.69	-16.99	-9.58	-12.81

Ant6													
Freq	7025.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-15.36	-12.64	-17.21	-5.28	-3.97	-5.33	-2.34	-6.51	-8.89	-6.9	-6.75	-4.23	-13.83
15.00	-15.13	-11.51	-14.27	-19.28	-9.98	-6.13	-3.84	-4.32	-7.62	-8.83	-10.86	-6.89	-13.83
30.00	-15.32	-15.42	-9.4	-10.41	-6.18	-4.18	-1.84	-2.37	-6.32	-0.92	-14.87	-5.6	-13.83
45.00	-15.54	-10.56	-9.02	-9.2	-1.21	1.83	0.91	-5.69	-7.73	-5.15	-5.96	-6.84	-13.83
60.00	-16.39	-9.42	-9.84	-4.5	-7.75	1.62	1.82	-4.62	-11.62	-5.07	-6.02	-4.71	-13.83
75.00	-17.09	-10.51	-6.09	-6.93	-16.28	-2.72	-5.38	-4.7	-9.87	-3.64	-7.66	-6.41	-13.83
90.00	-16.1	-12.12	-8.35	-6.89	-17.33	-7.94	-3.09	-0.76	-7.57	-3.61	-5.02	-13.35	-13.83
105.00	-15.18	-12.94	-11.09	-11.97	-9.18	-2.2	-5.76	-3.92	-3.82	-5.16	-5.68	-13.83	-13.83

120.00	-15.64	-11.62	-10.68	-6.14	-9.29	0.67	2.9	-2.8	-5.32	-1.77	-7.17	-11.76	-13.83
135.00	-15.27	-8.78	-6.83	-6.57	-3.67	-0.61	-2.05	-2.34	-10.95	-11.36	-14.97	-9.02	-13.83
150.00	-15.5	-7.79	-9.47	-5.69	-7.94	-11.69	-13.81	-13.01	-9.67	-8	-15.13	-7.19	-13.83
165.00	-16.08	-9.35	-7.45	-22.29	-10.1	-9.63	-8.96	-6.18	-9.58	-11.18	-10.9	-8.26	-13.83
180.00	-15.4	-12.68	-12.44	-8.83	-5.08	-2.23	-1.29	-3.2	-11.06	-8.81	-11.84	-7.78	-13.83
195.00	-15.63	-10.33	-6.96	-3.3	-7.56	-9.28	-2.94	-4.09	-10.81	-9.36	-9.78	-9.33	-13.83
210.00	-16.52	-7.79	-9.16	-12.78	-6.83	-3.41	-2.59	-6.04	-10.74	-16.15	-10.42	-9.02	-13.83
225.00	-16.39	-7.35	-11.9	-10.01	-5.58	-3.69	-2.07	-6.01	-11.43	-8.7	-15.54	-7.33	-13.83
240.00	-15.83	-6.65	-8.88	-4.87	-5.64	-2.24	-0.56	-0.24	-5	-8.58	-8.49	-6.68	-13.83
255.00	-15.44	-5.93	-8.21	-1.96	-6.34	2.02	1.65	2.95	-5.02	-6.52	-8.82	-6.24	-13.83
270.00	-14.77	-5.75	-10.39	-6.69	-13.92	-0.92	-2.21	-2.48	-6.85	-8.59	-9.09	-5.79	-13.83
285.00	-15.57	-5.2	-10.04	-7.92	-10.55	-0.69	2.1	-1.05	-14.93	-10.73	-7.09	-6.81	-13.83
300.00	-16.14	-5.46	-6.81	-7.28	-8.41	0.82	2.41	0.12	-11.98	-6.44	-8.19	-8.23	-13.83
315.00	-16.74	-6.71	-5.92	-14.57	-8.53	-0.89	3.14	1.36	-7.18	-8.75	-10.08	-5.92	-13.83
330.00	-16.79	-10.54	-5.27	-12.52	-9.06	3.26	3.71	0.83	-12.1	-12.21	-11.65	-4.69	-13.83
345.00	-16.3	-20.59	-7.95	-2.97	-11.61	-1.83	-1.11	-1.29	-6.35	-5.15	-4.67	-3.02	-13.83

7025MHz Composite Gain (1SS)													
Freq	7025.00												
Phi\Theta	0	15	30	45	60	75	90	105	120	135	150	165	180
0.00	-6.43	-7.67	-9.32	-4.70	-1.73	-1.20	-0.63	-3.87	-8.00	-4.77	-6.49	-4.49	-10.29
15.00	-6.35	-7.78	-9.50	-19.74	-7.89	-2.63	0.01	-2.00	-4.76	-8.20	-8.59	-4.81	-10.29
30.00	-6.22	-11.11	-6.61	-6.47	-4.82	-0.13	-0.29	-3.28	-5.91	-2.26	-10.32	-4.14	-10.29
45.00	-6.17	-8.26	-7.06	-5.83	-0.72	2.20	0.77	-4.44	-6.55	-4.47	-6.07	-5.64	-10.29
60.00	-6.57	-5.77	-5.55	-4.45	-5.36	1.15	0.53	-2.61	-9.48	-6.60	-3.79	-4.53	-10.29
75.00	-6.97	-4.94	-1.97	-3.77	-8.65	1.69	0.72	-4.07	-6.29	-2.37	-5.12	-5.41	-10.29
90.00	-6.75	-5.06	-3.06	-3.86	-6.88	0.44	0.68	-0.44	-7.05	-3.83	-3.96	-9.42	-10.29
105.00	-6.53	-5.31	-5.96	-5.84	-2.93	0.04	-2.32	-1.43	-1.43	-1.67	-1.40	-8.80	-10.29
120.00	-6.50	-4.90	-6.88	-6.47	-4.07	4.98	5.92	-0.61	-1.97	-0.17	-3.42	-6.69	-10.29
135.00	-6.42	-4.36	-5.15	-6.68	-2.86	2.76	3.15	-0.20	-2.76	-4.79	-8.66	-4.47	-10.29
150.00	-6.55	-5.55	-4.64	-3.03	-0.16	-0.67	0.40	-1.13	-3.42	-2.28	-6.64	-3.75	-10.29
165.00	-6.79	-6.91	-5.75	-8.89	-2.53	-3.02	-3.86	-0.51	-5.24	-5.54	-4.54	-5.83	-10.29
180.00	-6.55	-7.10	-6.81	-7.83	-0.89	1.44	1.11	-1.28	-6.81	-5.72	-3.19	-3.48	-10.29
195.00	-6.59	-6.37	-7.60	-3.80	-5.61	-1.27	1.92	-1.02	-7.34	-4.62	-7.36	-2.47	-10.29
210.00	-6.71	-6.83	-7.69	-8.97	-3.57	-0.01	2.78	-1.77	-7.52	-7.39	-3.62	-3.02	-10.29
225.00	-6.77	-7.26	-8.61	-7.18	-2.85	1.11	2.55	-1.11	-10.45	-6.11	-6.40	-4.18	-10.29
240.00	-6.55	-5.90	-7.56	-2.34	-0.94	2.08	4.42	1.28	-4.04	-3.79	-5.52	-4.73	-10.29
255.00	-6.38	-5.11	-8.28	-1.88	-3.05	5.75	5.96	3.30	-3.99	-2.21	-5.42	-4.15	-10.29
270.00	-6.25	-4.93	-9.97	-6.13	-5.29	5.39	4.99	0.78	-4.73	-3.80	-7.66	-3.73	-10.29
285.00	-6.41	-4.57	-9.34	-8.24	-4.56	5.29	6.21	2.20	-8.26	-3.40	-5.65	-4.54	-10.29
300.00	-6.42	-5.01	-6.32	-7.16	-4.24	4.36	5.27	1.70	-8.81	-5.55	-7.49	-5.54	-10.29
315.00	-6.52	-5.79	-4.83	-11.62	-6.90	1.44	3.34	-0.20	-5.90	-5.01	-9.33	-4.13	-10.29
330.00	-6.57	-8.63	-3.51	-7.69	-7.76	2.49	3.22	0.72	-7.68	-11.72	-10.55	-2.87	-10.29

345.00	-6.54	-12.09	-5.58	-2.99	-8.76	0.60	-0.30	-1.82	-5.90	-5.12	-5.80	-2.68	-10.29
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7025MHz Composite Gain (2SS)													
Freq	7025.00												
Phi\Theta	0.00	15.00	30.00	45.00	60.00	75.00	90.00	105.00	120.00	135.00	150.00	165.00	180.00
0.00	-8.49	-10.51	-11.59	-7.28	-4.70	-4.15	-3.53	-6.87	-10.69	-7.73	-8.94	-6.68	-13.29
15.00	-8.45	-10.77	-12.37	-21.81	-10.84	-5.62	-2.96	-4.98	-7.77	-10.80	-11.57	-7.76	-13.29
30.00	-8.24	-14.04	-9.62	-9.44	-7.65	-3.08	-3.15	-5.07	-8.42	-3.74	-13.22	-6.99	-13.29
45.00	-8.15	-11.24	-10.00	-8.83	-3.26	-0.29	-1.48	-7.24	-9.32	-7.09	-8.33	-8.42	-13.29
60.00	-8.46	-8.76	-8.48	-6.80	-8.35	-0.92	-0.99	-5.56	-12.44	-7.93	-6.76	-6.94	-13.29
75.00	-8.81	-7.67	-4.92	-6.78	-10.98	-1.22	-1.91	-6.67	-9.29	-5.17	-8.12	-8.14	-13.29
90.00	-8.73	-7.51	-5.84	-6.87	-8.65	-1.73	-2.30	-2.91	-9.61	-6.04	-6.70	-12.39	-13.29
105.00	-8.65	-7.64	-8.77	-8.47	-5.54	-2.93	-5.33	-4.42	-4.41	-4.67	-4.34	-11.63	-13.29
120.00	-8.52	-7.42	-9.86	-8.62	-6.87	2.05	2.91	-3.58	-4.97	-3.05	-6.40	-9.51	-13.29
135.00	-8.50	-7.27	-8.04	-8.95	-5.52	-0.25	0.35	-3.16	-4.97	-7.34	-11.26	-7.37	-13.29
150.00	-8.61	-8.52	-7.49	-6.03	-2.46	-2.33	-0.78	-2.65	-6.03	-4.99	-8.78	-6.76	-13.29
165.00	-8.78	-9.90	-8.65	-10.17	-4.87	-5.56	-6.68	-3.23	-8.16	-8.27	-7.13	-8.82	-13.29
180.00	-8.63	-9.83	-9.54	-10.55	-3.84	-1.55	-1.87	-4.21	-9.75	-8.73	-5.31	-6.41	-13.29
195.00	-8.62	-9.33	-9.56	-5.85	-8.55	-3.52	-0.93	-4.03	-10.34	-7.49	-10.35	-4.95	-13.29
210.00	-8.60	-9.54	-10.54	-11.95	-6.58	-3.01	0.01	-4.70	-10.53	-9.49	-6.12	-5.68	-13.29
225.00	-8.69	-9.62	-11.61	-10.19	-5.86	-1.75	-0.34	-3.96	-13.17	-9.11	-8.42	-7.19	-13.29
240.00	-8.54	-8.54	-10.37	-5.34	-3.82	-0.84	1.59	-1.58	-6.75	-6.65	-8.53	-7.66	-13.29
255.00	-8.42	-7.78	-10.57	-4.24	-6.05	2.76	3.03	0.81	-6.72	-5.14	-8.42	-7.11	-13.29
270.00	-8.39	-7.60	-12.49	-8.70	-7.41	2.80	2.57	-2.23	-7.69	-6.67	-10.50	-6.68	-13.29
285.00	-8.42	-7.17	-11.96	-10.39	-7.21	2.63	3.26	-0.81	-10.78	-5.79	-8.50	-7.52	-13.29
300.00	-8.33	-7.54	-8.86	-9.54	-7.18	1.37	2.26	-1.18	-11.82	-8.24	-10.12	-8.54	-13.29
315.00	-8.33	-8.49	-7.58	-14.63	-9.78	-1.54	0.92	-1.51	-8.70	-7.99	-11.97	-7.04	-13.29
330.00	-8.38	-11.56	-6.42	-10.54	-10.57	0.61	1.16	-1.55	-10.59	-14.26	-13.31	-5.79	-13.29
345.00	-8.44	-14.24	-8.57	-5.30	-11.77	-2.39	-2.96	-3.85	-8.43	-7.46	-7.43	-5.16	-13.29