



Aruba AP-655/655A Antenna Test Report

Date : April 14, 2022

Prepared by : Jerry Ko / Jerry Liu

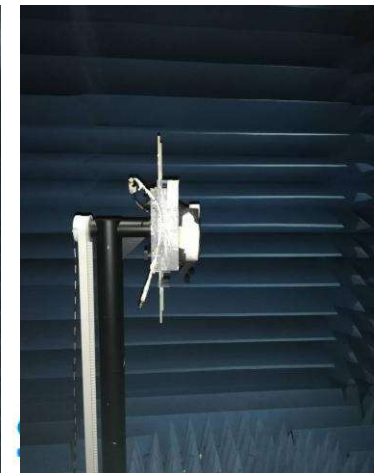
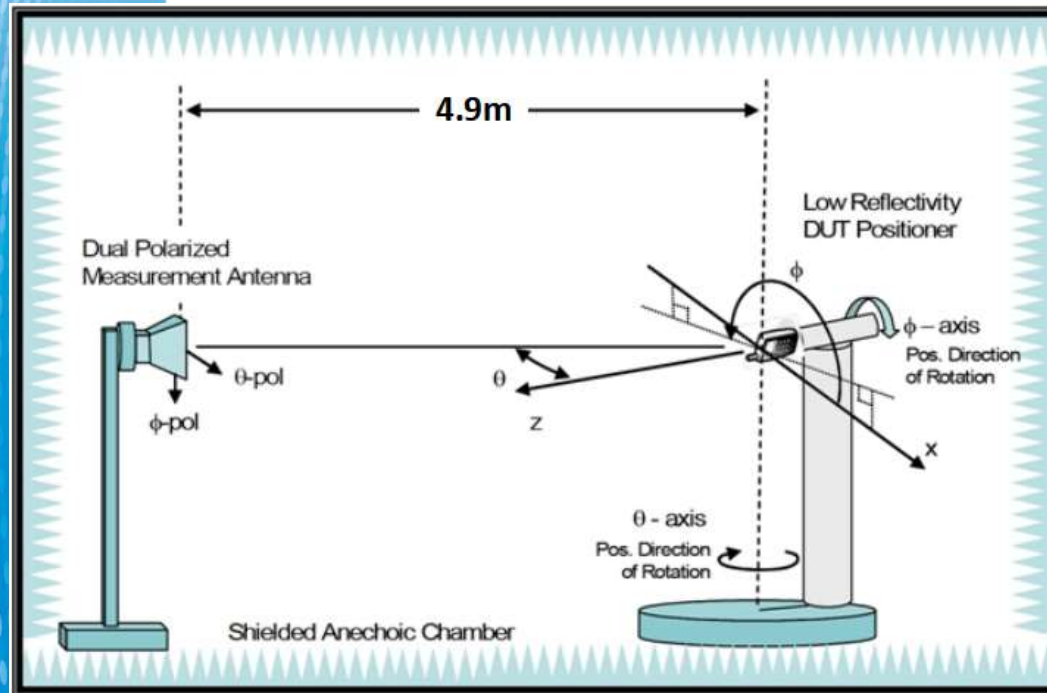


Test Information

Item	Description
Brand Name	Aruba
Equipment	Wi-Fi 6E Tri-Band Access Point: APIN0655, APIN0655A
Test Location	8F, No. 3-1, YuanQu St. Taipei, Taiwan 115 R.O.C.
Test Condition	Radiation
Test Engineer	Jerry Ko, Sercomm
Test Environment	ETS-Lindgren AMS-8500 Antenna Measurement Chamber
Test Date	Jul. 13, 2021 ~ Jul. 27, 2021

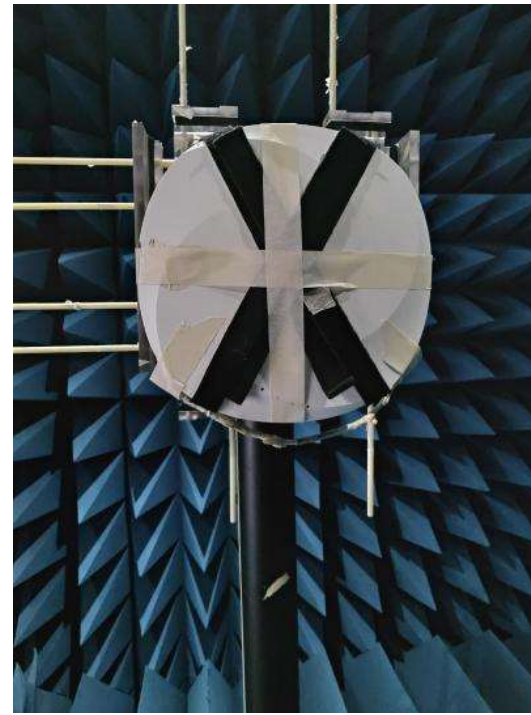
Test Configuration

ETS-Lindgren AMS-8500 antenna measurement system with a size of $7.32(L) \times 3.66(W) \times 3.66(H) \text{ m}^3$ is used for antenna performance test, which is based on the great-circle test method defined by CTIA. The multi-axis positioning system (MAPS) rotates the DUT around two orthogonal axes for full spherical coverage.



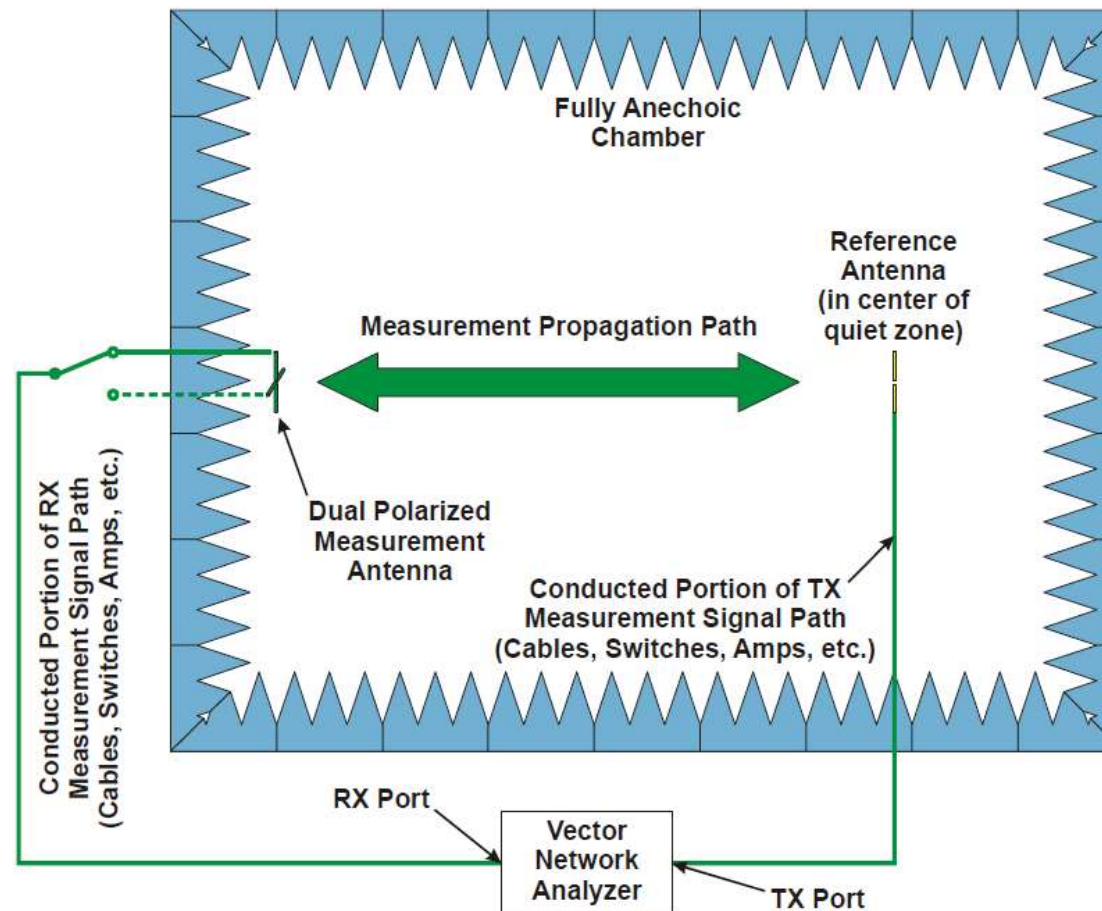
Test Setup & Procedure

1. Fix the DUT on the dielectric support structure and connect the feeding cable to the antenna used for test
2. Set measurement parameters such as frequency range and sampling angle
3. Perform test and then get far-field data (radiation pattern, gain, efficiency)
4. Repeat test procedure for other antennas



Test Equipment & Calibration

Network analyzer and reference antennas are used for calibration. Path loss and cable loss for different frequency bands can be checked and calculated.



Test Equipment & Calibration

Instrument	Brand	Characteristics	Model No.	Serial No.	Calibration Due Date
Precision Sleeve Dipole	ETS-Lindgren	700 MHz ~ 900 MHz	3126-700	00169715	May 21, 2022
Precision Sleeve Dipole	ETS-Lindgren	900 MHz ~ 1000 MHz	3126-900	00169592	May 21, 2022
Precision Sleeve Dipole	ETS-Lindgren	1400 MHz ~ 1700 MHz	3126-1550	00164599	May 21, 2022
Precision Sleeve Dipole	ETS-Lindgren	1700 MHz ~ 2000 MHz	3126-1850	00169588	May 21, 2022
Precision Sleeve Dipole	ETS-Lindgren	2000 MHz ~ 2300 MHz	3126-2150	00169593	May 21, 2022
Precision Sleeve Dipole	ETS-Lindgren	2300 MHz ~ 2700 MHz	3126-2500	00169597	May 21, 2022
Precision Sleeve Dipole	ETS-Lindgren	5000 MHz ~ 6000 MHz	3126-5500	00169728	May 21, 2022
Horn Antenna	SCHWARZBECK	1 GHz ~ 18 GHz	BBHA 9120D	BBHA 9120D-1294	Apr. 07, 2023
EMQuest Antenna Measurement Software	ETS-Lindgren	Control chamber system	EMQ-100	1437	Non-Calibration Required

Antenna Details

Ant No.	Operating Band	Type	Material	Feeding	Polarization
WiFi 2G/5G (Ant 0)	2400 MHz ~ 2500 MHz 4900 MHz ~ 5900 MHz	Dipole	PCB	Cable	Horizontal
WiFi 2G/5G (Ant 1)	2400 MHz ~ 2500 MHz 4900 MHz ~ 5900 MHz	Dipole	PCB	Cable	Horizontal
WiFi 2G/5G (Ant 2 & 3)	2400 MHz ~ 2500 MHz 4900 MHz ~ 5900 MHz	PIFA	Metal	Cable	Vertical

Ant No.	Operating Band	Type	Material	Feeding	Polarization
WiFi 6G (Ant 1 & 2)	5900 MHz ~ 7200 MHz	PIFA	Metal	Cable	Vertical
WiFi 6G (Ant 0 & 3)	5900 MHz ~ 7200 MHz	Dipole	PCB	Cable	Horizontal
BLE Ant	2400 MHz ~ 2500 MHz	PIFA	Metal	Cable	Vertical
GPS Ant	1575.42 MHz	PIFA	Metal	Cable	Vertical

Result Summary - Gain & Efficiency Table (1/2)

WiFi 2/5G_ANT0		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	4.8	67
2450	4.8	70
2500	4.0	62
4900	4.5	70
5500	4.9	65
5900	5.3	67

WiFi 2/5G_ANT1		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	4.1	62
2450	4.7	73
2500	4.0	64
4900	4.5	70
5500	4.8	72
5900	4.3	65

WiFi 2/5G_ANT2		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	4.0	67
2450	4.4	74
2500	4.7	72
4900	4.2	70
5500	3.8	67
5900	3.3	65

WiFi 2/5G_ANT3		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	3.4	70
2450	3.8	77
2500	3.6	74
4900	4.5	76
5500	3.7	72
5900	4.3	68

Result Summary - Gain & Efficiency Table (2/2)

WiFi 6G_ANT0		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
5900	3.3	66
6500	3.8	77
7200	4.1	73

WiFi 6G_ANT1		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
5900	4.4	73
6500	4.6	70
7200	5.4	69

WiFi 6G_ANT2		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
5900	4.7	64
6500	5.0	67
7200	5.1	70

WiFi 6G_ANT3		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
5900	3.2	69
6500	3.7	74
7200	4.0	69

BLE_ANT		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
2400	3.2	67
2450	3.6	75
2500	3.3	71

GPS_ANT		
Frequency (MHz)	Peak Gain (dBi)	Efficiency (%)
1575.42	3.1	66

Result Summary - Uncorrelated Gain & Correlated Gain

Frequency (MHz)	Uncorrelated Gain (dBi)	Correlated Gain (dBi)
2400	2.88	5.81
2450	3.26	6.23
2500	2.7	5.62

Frequency (MHz)	Uncorrelated Gain (dBi)	Correlated Gain (dBi)
4900	2.57	5.5
5500	2.75	5.54
5900	2.88	5.6

Frequency (MHz)	Uncorrelated Gain (dBi)	Correlated Gain (dBi)
5900	3.13	6.13
6500	3.06	5.99
7200	3.97	6.97

Correlated gain values generated by first generating the correlated gains of the co-pol pairs $[10\log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]]$ using the spatial gain data. The results were then summed $[10\log[(10^{G1/10} + 10^{G2/10} + \dots + 10^{GN/10}) / N_{ANT}]]$.

Calculations (1/3)

Because the antennas are fixed in location within the device the directional antenna gain for MIMO is calculated over a sphere using the raw spatial data taken at 5 degree steps of theta and phi for each antenna using the equations from KDB 662911 D01. The raw antenna data is located in the appendix of this report.

The uncorrelated antenna gain was calculated using KDB 662911 D01, F(2)(d)(ii)

The uncorrelated gain was calculated for each point in the spatial data, and the highest value reported.

2.4GHz uncorrelated calculation:

Maximum uncorrelated gain: 3.26dBi

$$= 10 \cdot \log(((10^{(G0/10)}) + (10^{(G1/10)}) + (10^{(G2/10)}) + (10^{(G3/10)})) / 4)$$
$$= 10 \cdot \log(((10^{(2.4/10)}) + (10^{(3.81/10)}) + (10^{(4.42/10)}) + (10^{(1.92/10)})) / 4)$$

This occurs at: 2450MHz, phi 90/theta 45

5GHz uncorrelated calculation:

Maximum uncorrelated gain: 2.88dBi

$$= 10 \cdot \log(((10^{(G0/10)}) + (10^{(G1/10)}) + (10^{(G2/10)}) + (10^{(G3/10)})) / 4)$$
$$= 10 \cdot \log(((10^{(5.34/10)}) + (10^{(0.59/10)}) + (10^{(-0.7/10)}) + (10^{(3.96/10)})) / 4)$$

This occurs at: 5900MHz, phi 25/theta 45

6GHz uncorrelated calculations:

Maximum uncorrelated gain: 3.97dBi

$$= 10 \cdot \log(((10^{(G0/10)}) + (10^{(G1/10)}) + (10^{(G2/10)}) + (10^{(G3/10)})) / 4)$$
$$= 10 \cdot \log(((10^{(2.38/10)}) + (10^{(4.73/10)}) + (10^{(5.07/10)}) + (10^{(3.13/10)})) / 4)$$

This occurs at: 7200MHz: phi 300/theta 75

Calculations (2/3)

The system has four antennas split into two pairs. Within each pair the two antennas are co-polarized, but cross polarized to the other pair. The correlated gain is therefore calculated by determining the correlated gain separately for each pair and then combining the effective gains of the two cross-polarized pairs using the equations for non-correlated antennas. This is explained in the OET presentation at TCBC Workshop April 2016, slide 14 of “Directional Gain and EIRP Calculations for Transmitters with Multiple Outputs”.

For 2.4 and 5GHz, Ant0 and Ant1 are co-polarized (horizontal), Ant2 and Ant3 are co-polarized (vertical).

For 6GHz, Ant1 and Ant2 are co-polarized (vertical), Ant0 and Ant3 are co-polarized (horizontal).

The correlated gain was calculated using the following steps:

1. For the correlated gain the equation F(2)(d)(i) from KDB 662911 D01 is applied on a spatial basis (i.e. at each theta/phi) to determine the effective gain for each pair of co-polarized antennas.
2. The two gains are then combined (again, on a spatial basis at each theta-phi) using the formula for non-correlated transmissions, F(2)(d)(ii) from KDB 662911 D01

2.4GHz correlated calculation:

$$\begin{aligned} \text{Maximum correlated gain: } & 6.23\text{dBi} \\ &= 10 \cdot \log\left(\frac{(10^{(2G_V/10)}) + (10^{(2G_H/10)})}{2}\right) \\ &= 10 \cdot \log\left(\frac{(10^{(6.07/10)}) + (10^{(6.38/10)})}{2}\right) \end{aligned}$$

$$\begin{aligned} 2G_V &= \text{correlated gain of vertical antenna pairs} = 6.07\text{dBi} \\ &= 10 \cdot \log\left(\frac{(10^{(G2/20)}) + (10^{(G3/20)})^2}{2}\right) \\ &= 10 \cdot \log\left(\frac{(10^{(3.53/20)}) + (10^{(2.58/20)})^2}{2}\right) \end{aligned}$$

$$\begin{aligned} 2G_H &= \text{correlated gain of horizontal antenna pairs} = 6.38\text{dBi} \\ &= 10 \cdot \log\left(\frac{(10^{(G0/20)}) + (10^{(G1/20)})^2}{2}\right) \\ &= 10 \cdot \log\left(\frac{(10^{(4.22/20)}) + (10^{(2.44/20)})^2}{2}\right) \end{aligned}$$

Calculations (3/3)

5GHz correlated calculation:

Maximum correlated gain: 5.60dBi
= $10 \cdot \log(((10^{(5G_V/10)}) + (10^{(5G_H/10)}))/2)$
= $10 \cdot \log(((10^{(4.77/10)}) + (10^{(6.29/10)}))/2)$

5G_V = correlated gain of vertical antenna pairs = 4.77dBi

= $10 \cdot \log(((10^{(G2/20)}) + (10^{(G3/20)}))^2/2)$
= $10 \cdot \log(((10^{(-0.7/20)}) + (10^{(3.69/20)}))^2/2)$

5G_H = correlated gain of vertical antenna pairs = 6.29dBi

= $10 \cdot \log(((10^{(G0/20)}) + (10^{(G1/20)}))^2/2)$
= $10 \cdot \log(((10^{(5.34/20)}) + (10^{(0.59/20)}))^2/2)$

This occurs at: 5900MHz: phi 25/theta 45

6GHz correlated calculation:

Maximum correlated gain: 6.97dBi
= $10 \cdot \log(((10^{(6G_V/10)}) + (10^{(6G_H/10)}))/2)$
= $10 \cdot \log(((10^{(7.91/10)}) + (10^{(5.77/10)}))/2)$

6G_V = correlated gain of vertical antenna pairs = 7.91dBi

= $10 \cdot \log(((10^{(G1/20)}) + (10^{(G2/20)}))^2/2)$
= $10 \cdot \log(((10^{(4.73/20)}) + (10^{(5.07/20)}))^2/2)$

6G_H = correlated gain of vertical antenna pairs = 5.77dBi

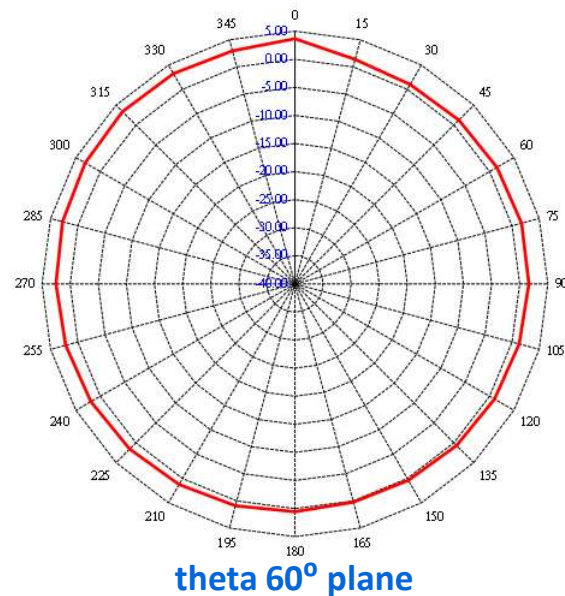
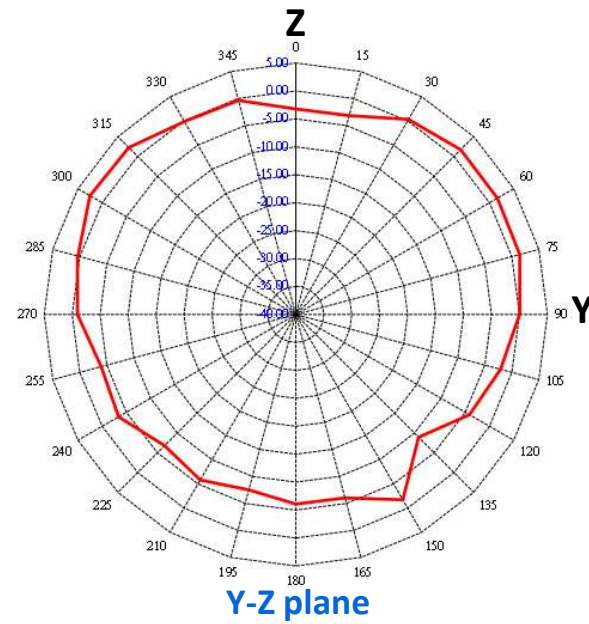
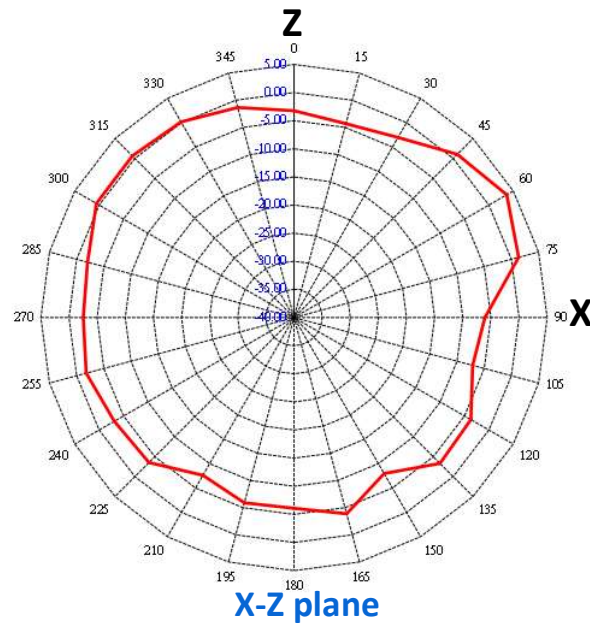
= $10 \cdot \log(((10^{(G0/20)}) + (10^{(G3/20)}))^2/2)$
= $10 \cdot \log(((10^{(2.38/20)}) + (10^{(3.13/20)}))^2/2)$

This occurs at: 7200MHz: phi 300/theta 75

Appendix

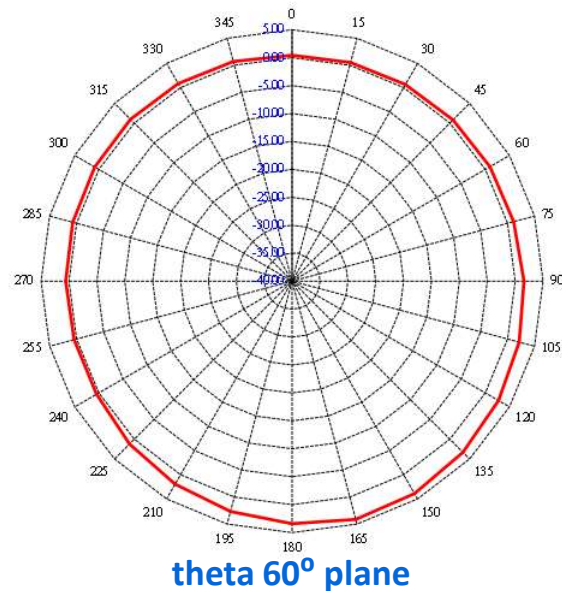
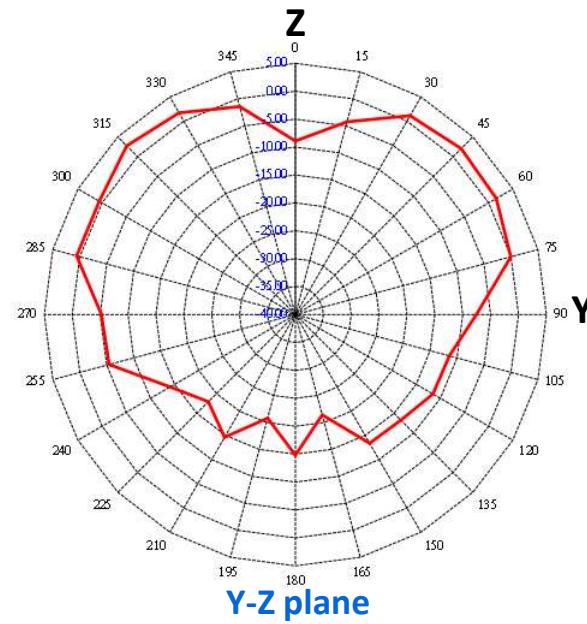
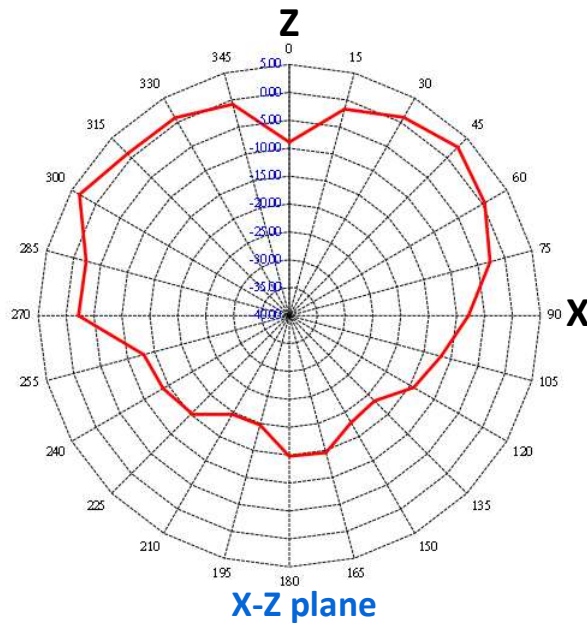
2D Radiation Pattern – WiFi 2/5G_ANT3 @2.4GHz

Down Tilt Angle From Ceiling (degree)	30
Gain Flatness (dB)	5



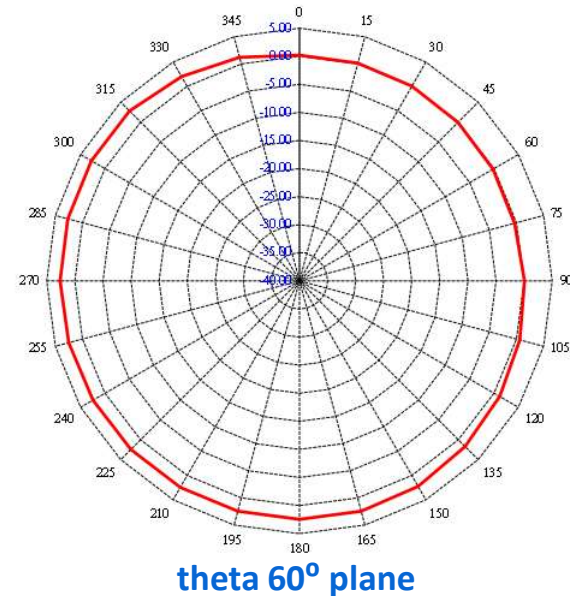
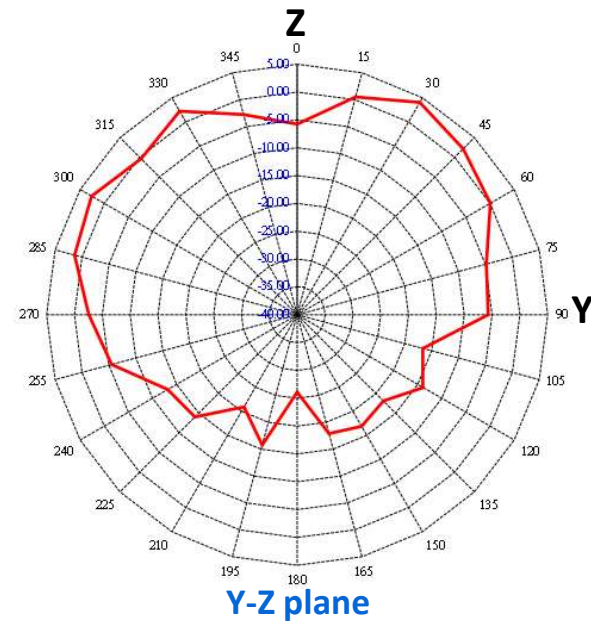
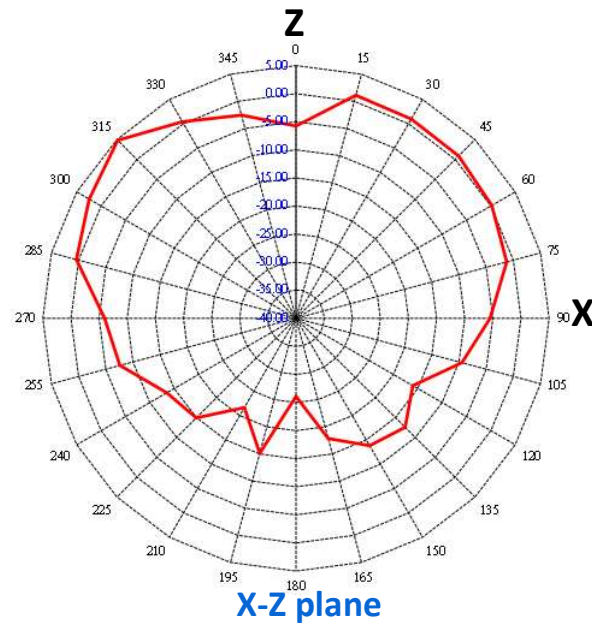
2D Radiation Pattern – WiFi 2/5G_ANT0 @5GHz

Down Tilt Angle From Ceiling (degree)	30
Gain Flatness (dB)	5



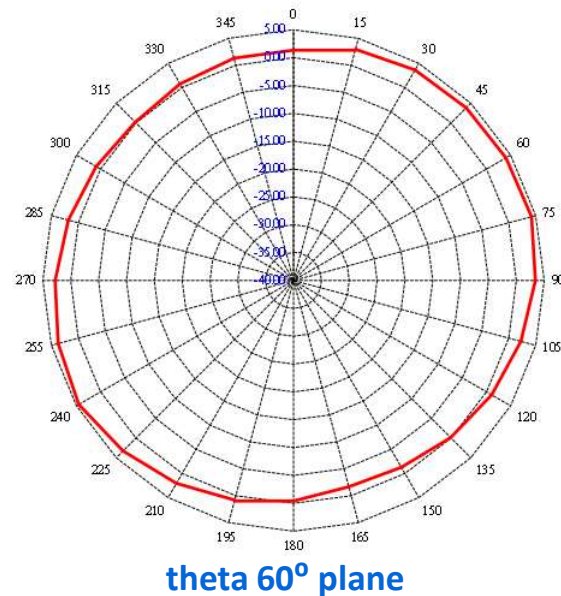
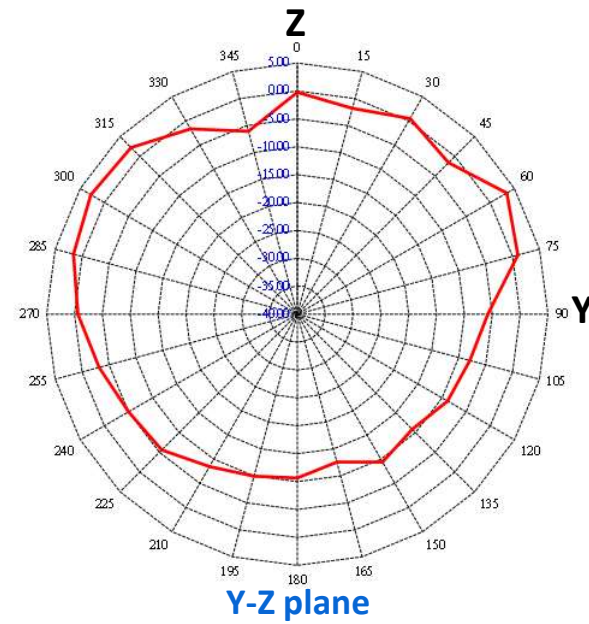
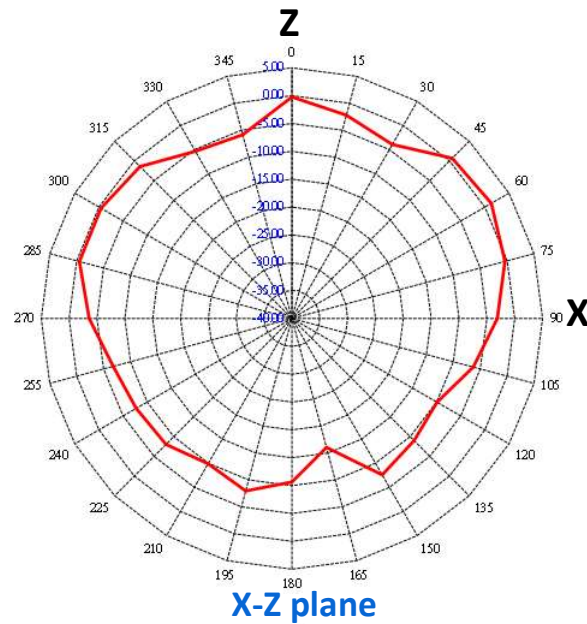
2D Radiation Pattern – WiFi 2/5G_ANT1 @5GHz

Down Tilt Angle From Ceiling (degree)	30
Gain Flatness (dB)	5



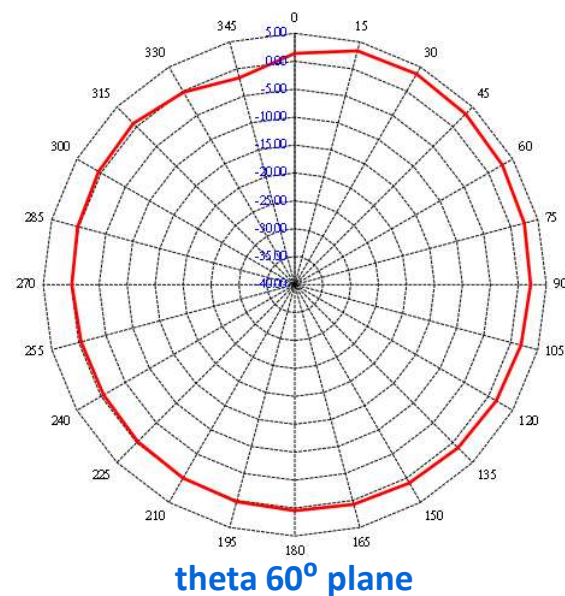
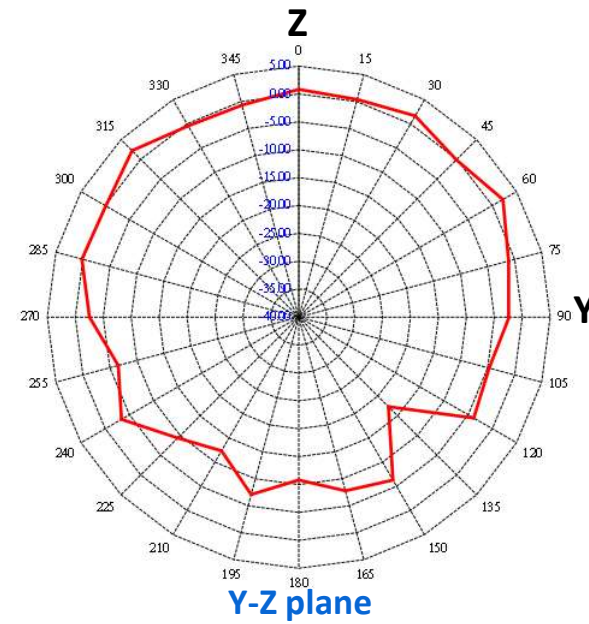
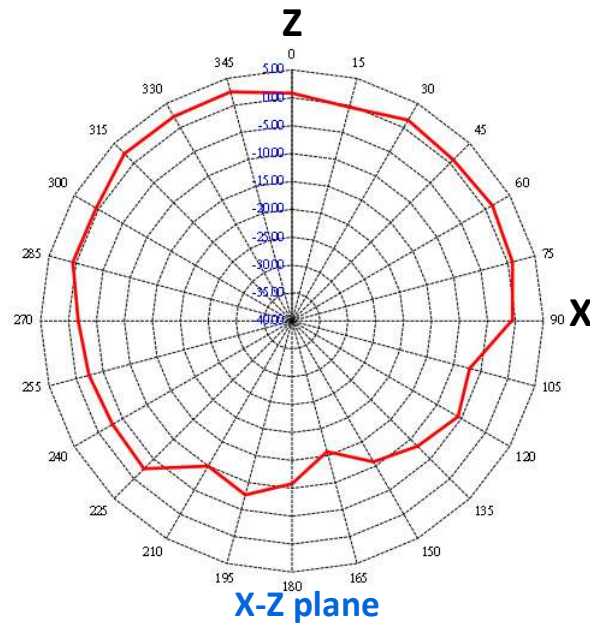
2D Radiation Pattern – WiFi 2/5G_ANT2 @5GHz

Down Tilt Angle From Ceiling (degree)	15
Gain Flatness (dB)	7



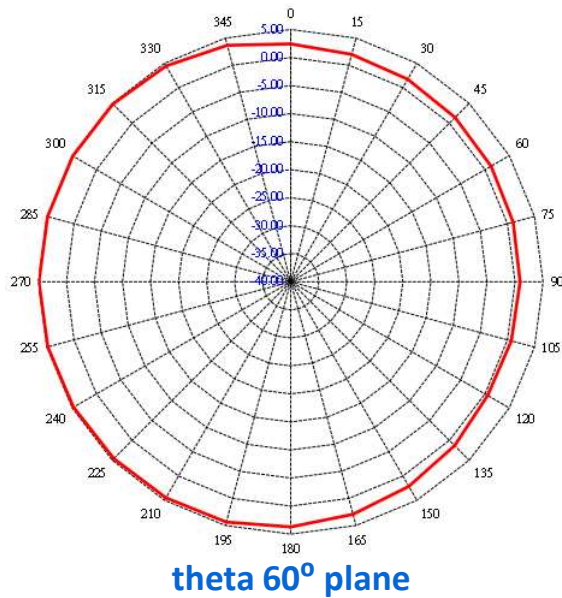
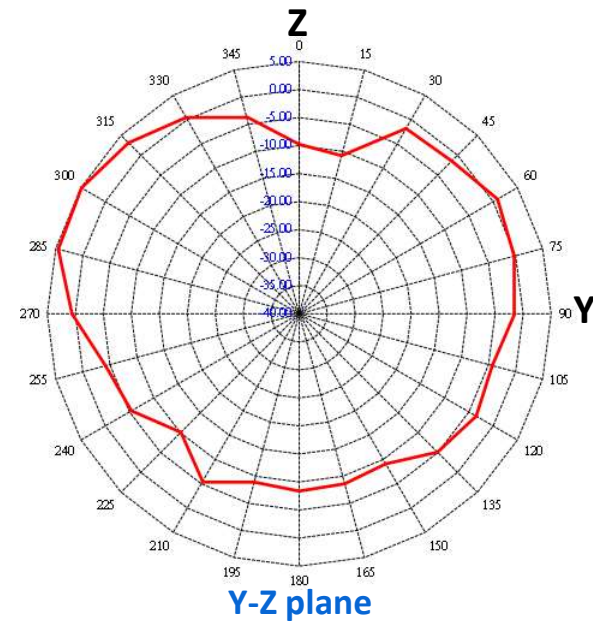
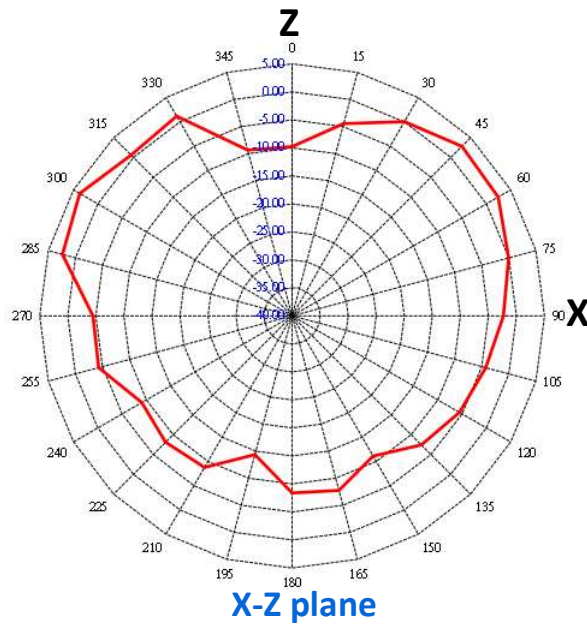
2D Radiation Pattern – WiFi 2/5G_ANT3 @5GHz

Down Tilt Angle From Ceiling (degree)	15
Gain Flatness (dB)	7



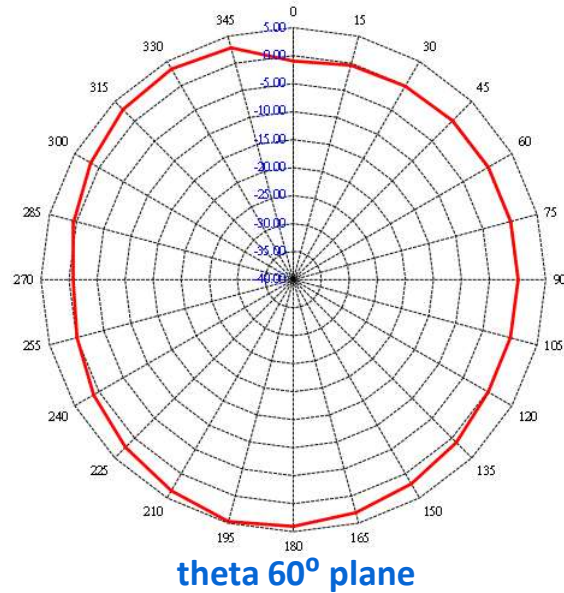
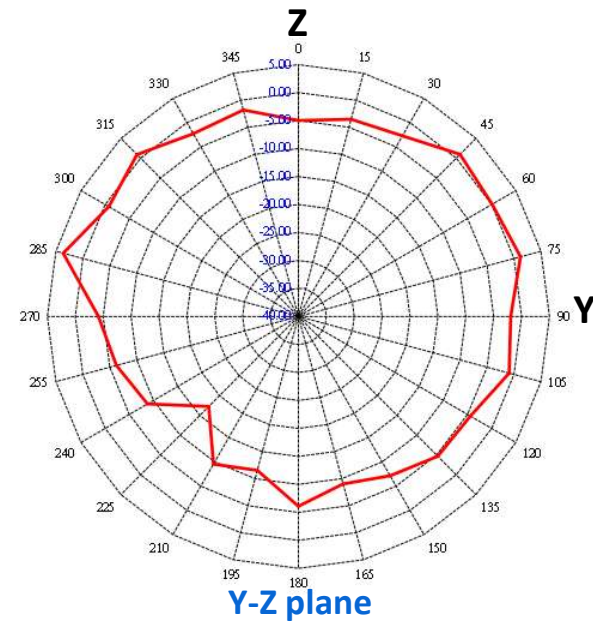
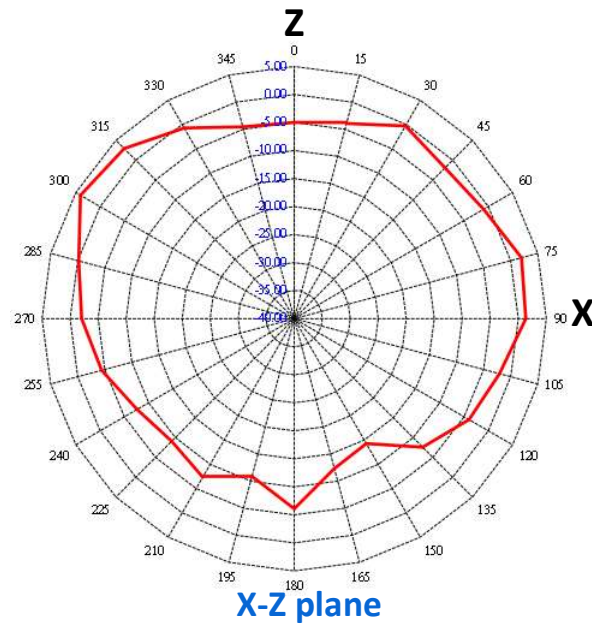
2D Radiation Pattern – WiFi 6G_ANT0

Down Tilt Angle From Ceiling (degree)	15
Gain Flatness (dB)	7



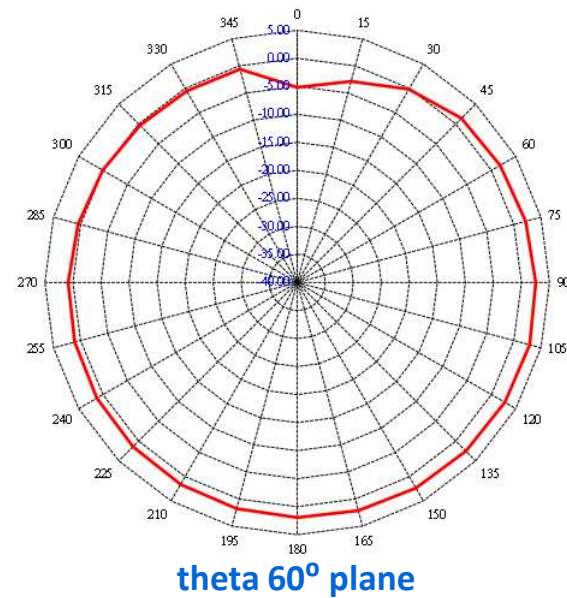
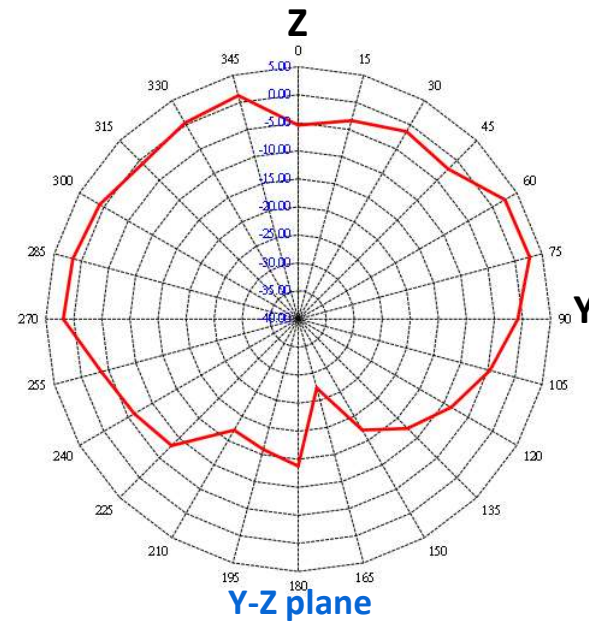
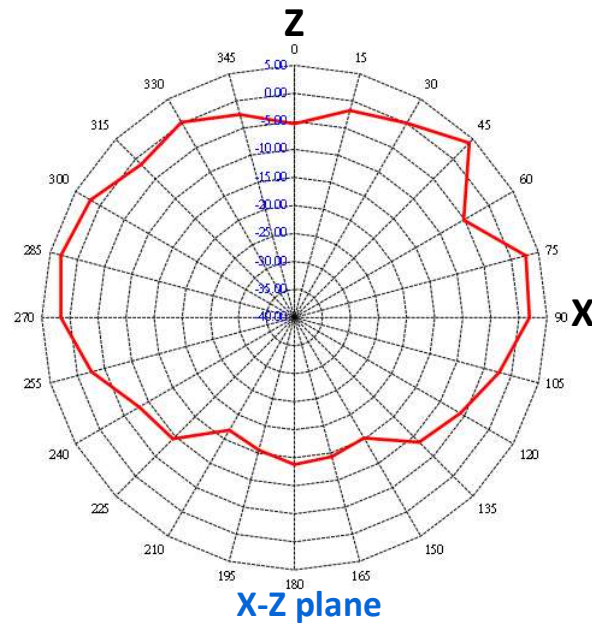
2D Radiation Pattern – WiFi 6G_ANT1

Down Tilt Angle From Ceiling (degree)	15
Gain Flatness (dB)	7



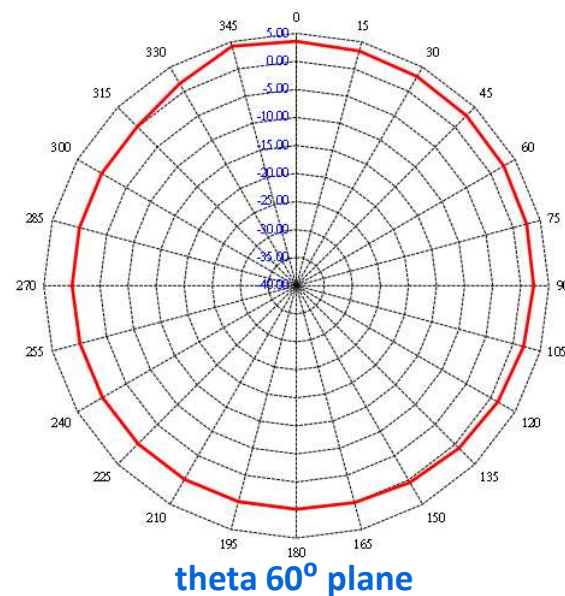
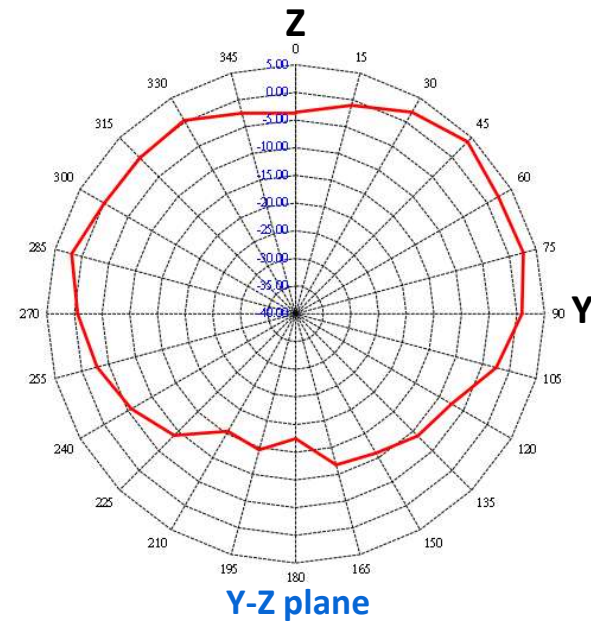
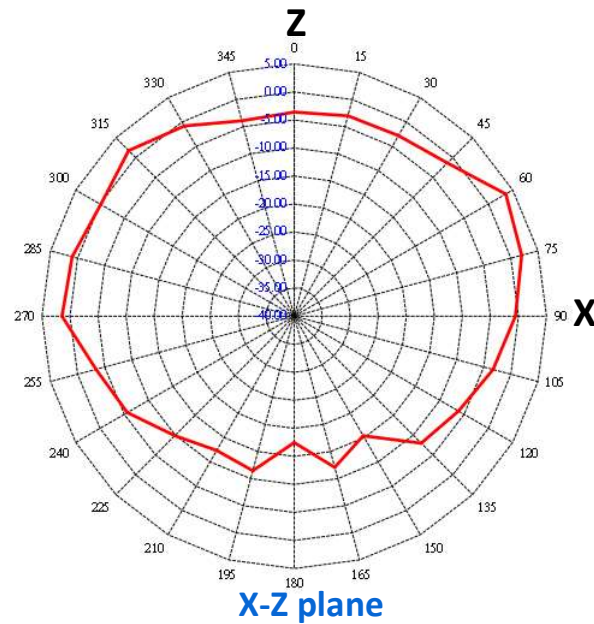
2D Radiation Pattern – WiFi 6G_ANT2

Down Tilt Angle From Ceiling (degree)	15
Gain Flatness (dB)	7



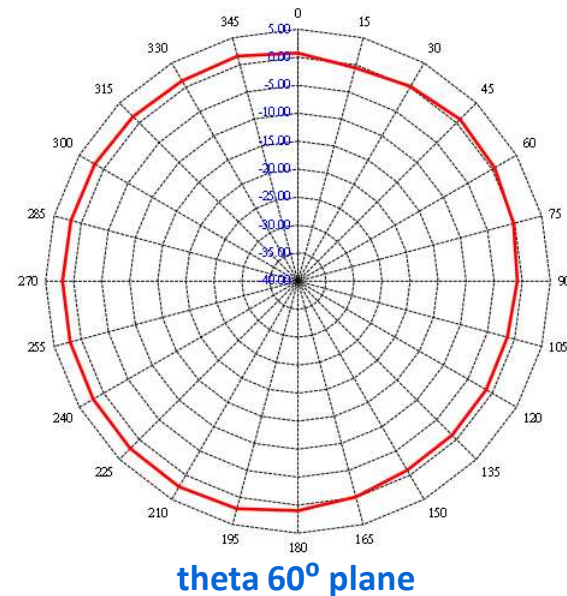
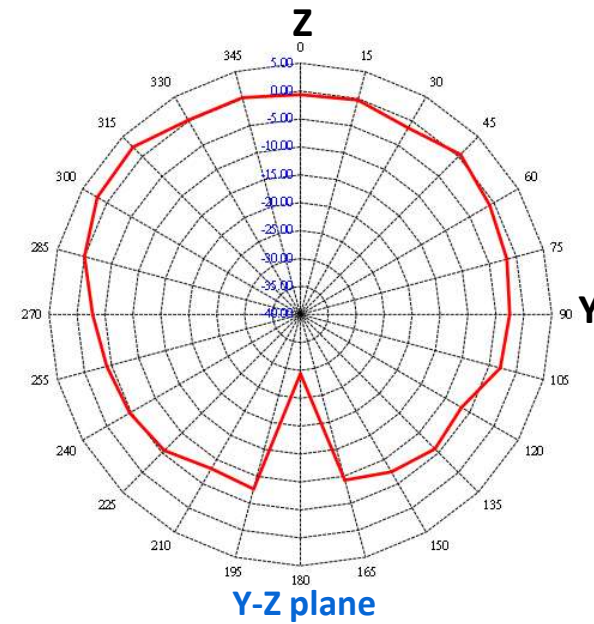
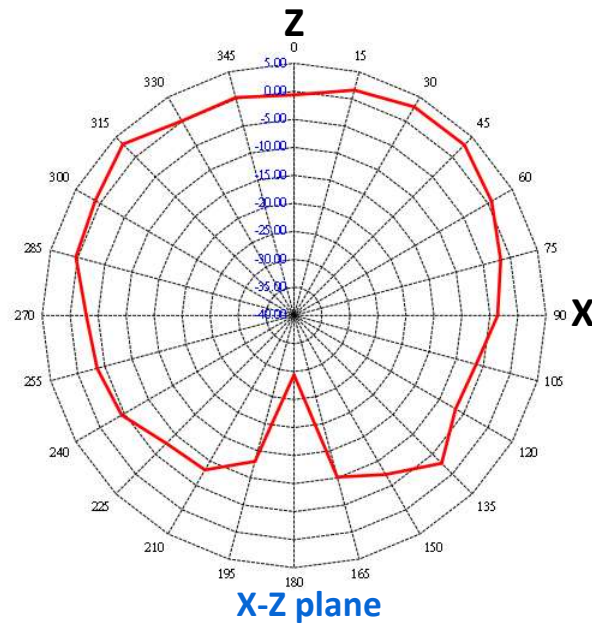
2D Radiation Pattern – WiFi 6G_ANT3

Down Tilt Angle From Ceiling (degree)	15
Gain Flatness (dB)	7



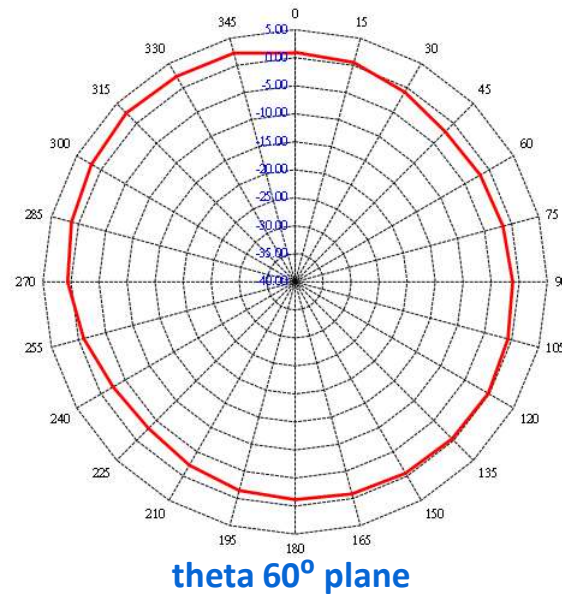
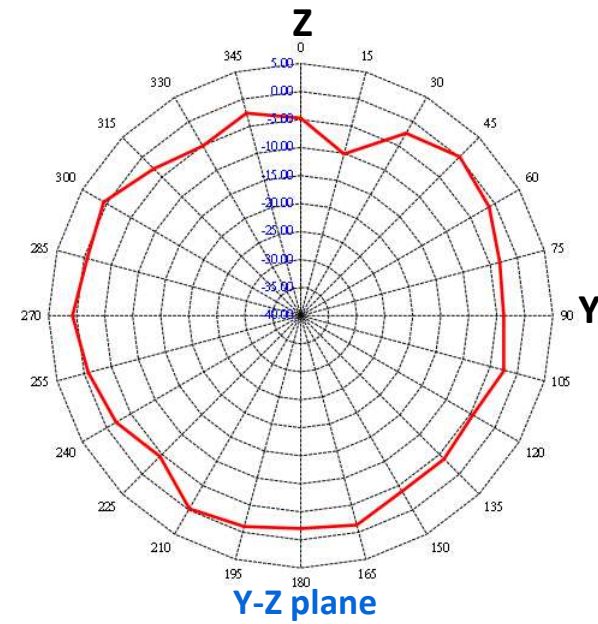
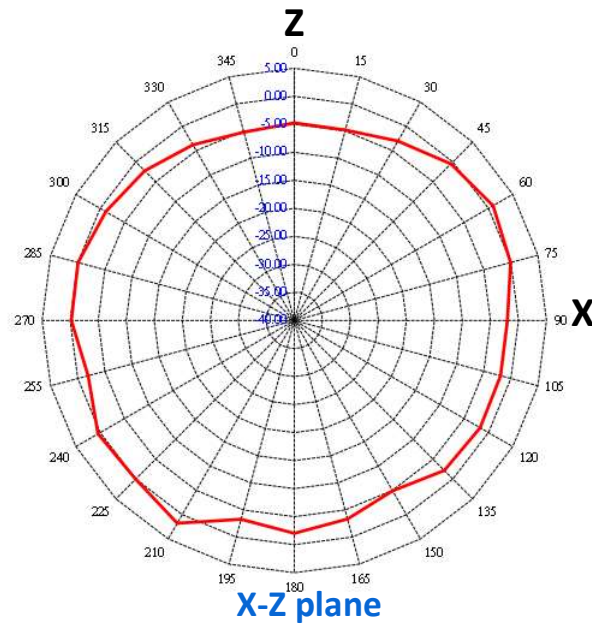
2D Radiation Pattern – BLE_ANT

Down Tilt Angle From Ceiling (degree)	30
Gain Flatness (dB)	5

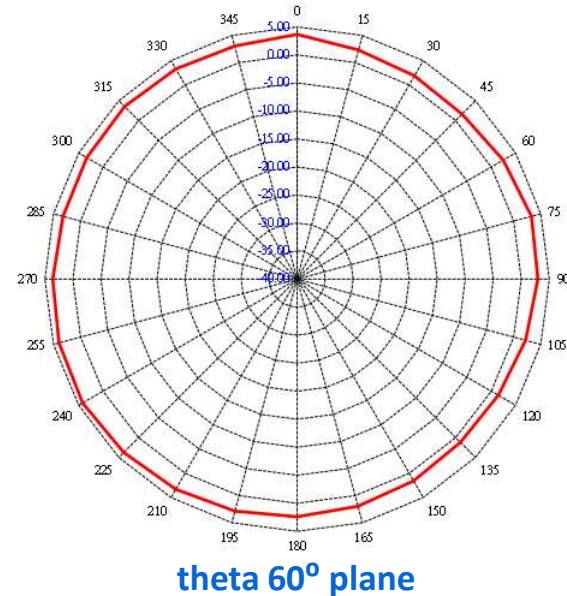
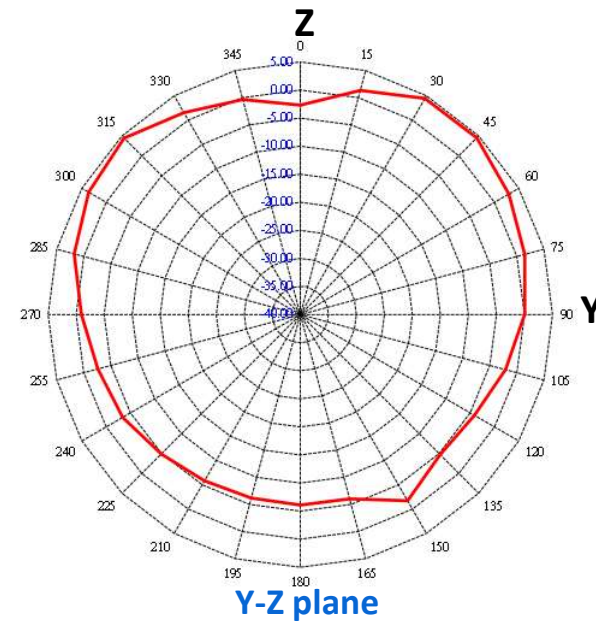
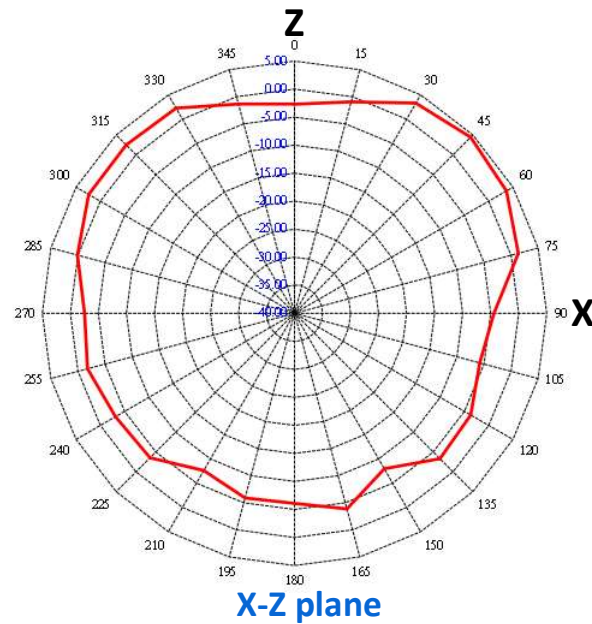


2D Radiation Pattern – GPS_ANT

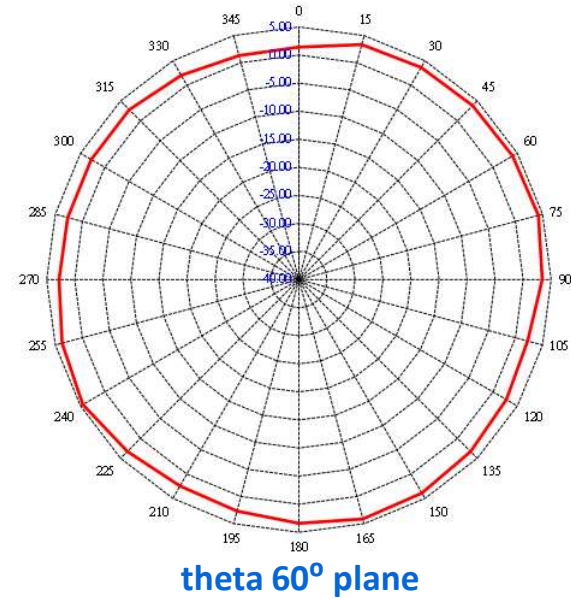
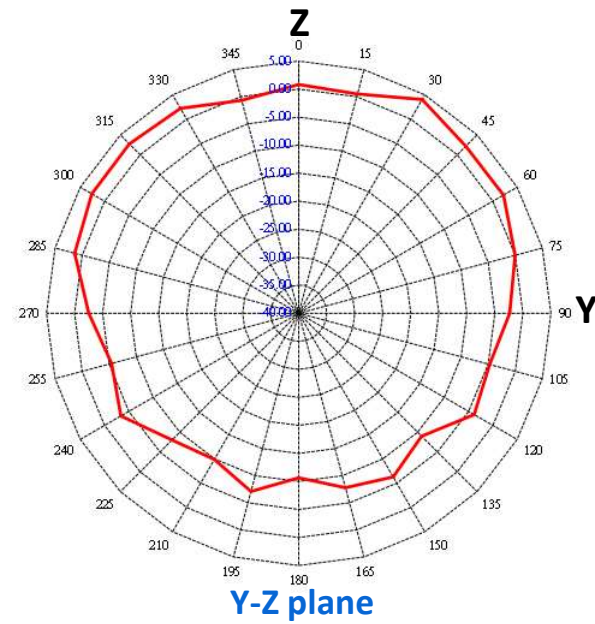
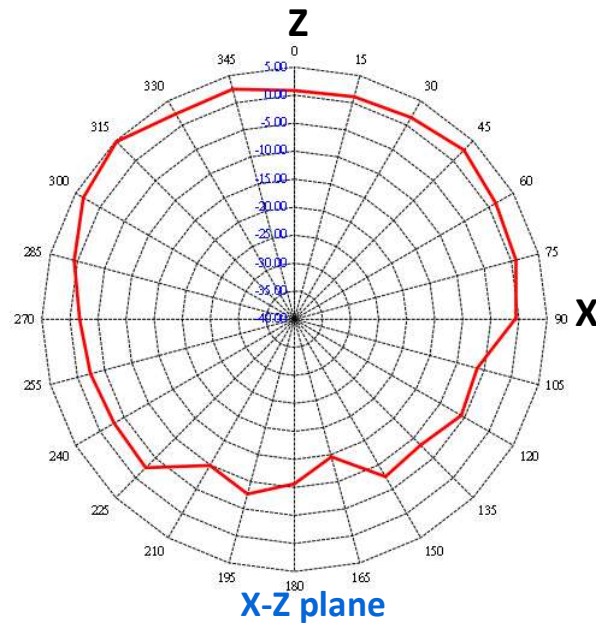
Down Tilt Angle From Ceiling (degree)	30
Gain Flatness (dB)	6



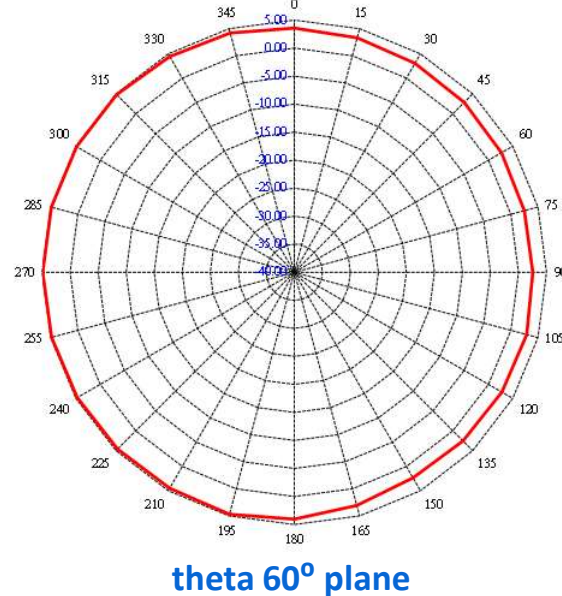
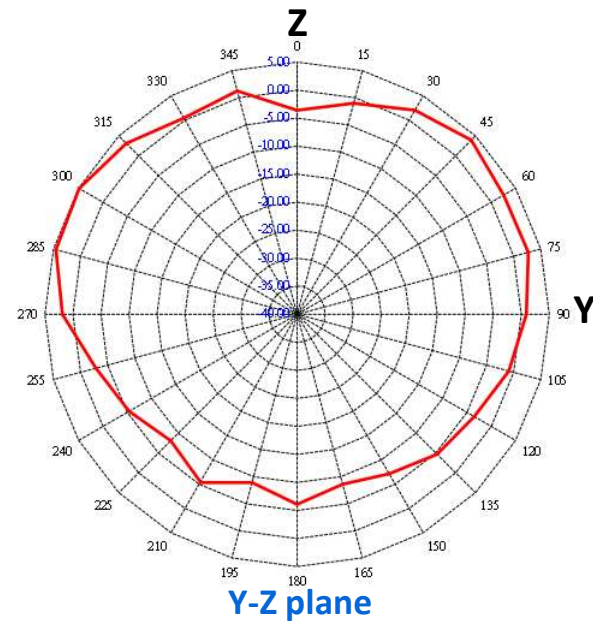
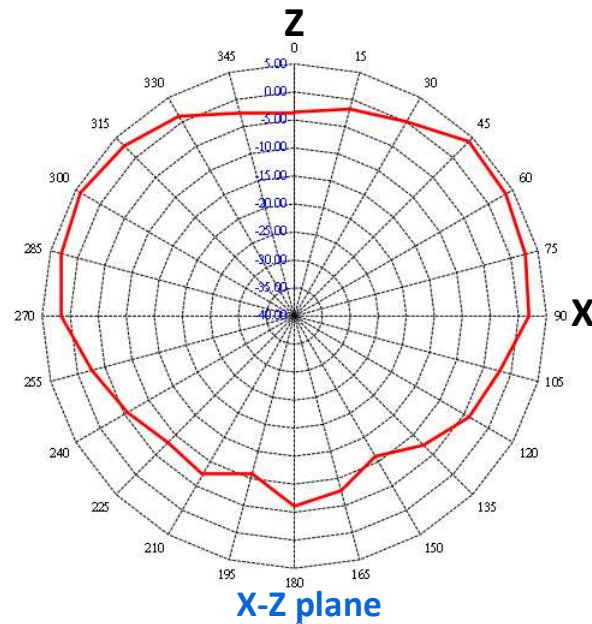
2D Composite Radiation Pattern – WiFi 2.4G



2D Composite Radiation Pattern – WiFi 5G



2D Composite Radiation Pattern – WiFi 6G



Raw Data (ANT0@2G 2400MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0_0.34	4.52	4.71	4.89	5.07	5.25	5.43	5.61	5.79	5.97	6.15	6.33	6.51	6.69	6.87	7.05	7.23	7.41	7.59	7.77	7.95	8.13	8.31	8.49	8.67	8.85	9.03	9.21	9.39	9.57	9.75	9.93	10.11	10.29	10.47	10.65	10.83	
0_0.34	4.47	4.66	4.84	5.02	5.20	5.38	5.56	5.74	5.92	6.10	6.28	6.46	6.64	6.82	7.00	7.18	7.36	7.54	7.72	7.90	8.08	8.26	8.44	8.62	8.80	8.98	9.16	9.34	9.52	9.70	9.88	10.06	10.24	10.42	10.60	10.78	
10_0.34	4.41	4.59	4.77	4.95	5.13	5.31	5.49	5.67	5.85	6.03	6.21	6.39	6.57	6.75	6.93	7.11	7.29	7.47	7.65	7.83	8.01	8.19	8.37	8.55	8.73	8.91	9.09	9.27	9.45	9.63	9.81	9.99	10.17	10.35	10.53	10.71	
10_0.34	4.36	4.54	4.72	4.90	5.08	5.26	5.44	5.62	5.80	5.98	6.16	6.34	6.52	6.70	6.88	7.06	7.24	7.42	7.60	7.78	7.96	8.14	8.32	8.50	8.68	8.86	9.04	9.22	9.40	9.58	9.76	9.94	10.12	10.30	10.48	10.66	
20_0.34	4.31	4.49	4.67	4.85	5.03	5.21	5.39	5.57	5.75	5.93	6.11	6.29	6.47	6.65	6.83	7.01	7.19	7.37	7.55	7.73	7.91	8.09	8.27	8.45	8.63	8.81	8.99	9.17	9.35	9.53	9.71	9.89	10.07	10.25	10.43	10.61	
20_0.34	4.25	4.43	4.61	4.79	4.97	5.15	5.33	5.51	5.69	5.87	6.05	6.23	6.41	6.59	6.77	6.95	7.13	7.31	7.49	7.67	7.85	8.03	8.21	8.39	8.57	8.75	8.93	9.11	9.29	9.47	9.65	9.83	10.01	10.19	10.37		
30_0.34	4.31	4.49	4.67	4.85	5.03	5.21	5.39	5.57	5.75	5.93	6.11	6.29	6.47	6.65	6.83	7.01	7.19	7.37	7.55	7.73	7.91	8.09	8.27	8.45	8.63	8.81	8.99	9.17	9.35	9.53	9.71	9.89	10.07	10.25	10.43	10.61	
30_0.34	4.24	4.42	4.60	4.78	4.96	5.14	5.32	5.50	5.68	5.86	6.04	6.22	6.40	6.58	6.76	6.94	7.12	7.30	7.48	7.66	7.84	8.02	8.20	8.38	8.56	8.74	8.92	9.10	9.28	9.46	9.64	9.82	10.00	10.18	10.36		
40_0.34	4.44	4.62	4.80	4.98	5.16	5.34	5.52	5.70	5.88	6.06	6.24	6.42	6.60	6.78	6.96	7.14	7.32	7.50	7.68	7.86	8.04	8.22	8.40	8.58	8.76	8.94	9.12	9.30	9.48	9.66	9.84	10.02	10.20	10.38	10.56		
40_0.34	4.37	4.55	4.73	4.91	5.09	5.27	5.45	5.63	5.81	5.99	6.17	6.35	6.53	6.71	6.89	7.07	7.25	7.43	7.61	7.79	7.97	8.15	8.33	8.51	8.69	8.87	9.05	9.23	9.41	9.59	9.77	9.95	10.13	10.31	10.49		
50_0.34	4.68	4.86	5.04	5.22	5.40	5.58	5.76	5.94	6.12	6.30	6.48	6.66	6.84	7.02	7.20	7.38	7.56	7.74	7.92	8.10	8.28	8.46	8.64	8.82	9.00	9.18	9.36	9.54	9.72	9.90	10.08	10.26	10.44	10.62	10.80		
50_0.34	4.77	4.95	5.13	5.31	5.49	5.67	5.85	6.03	6.21	6.39	6.57	6.75	6.93	7.11	7.29	7.47	7.65	7.83	8.01	8.19	8.37	8.55	8.73	8.91	9.09	9.27	9.45	9.63	9.81	9.99	10.17	10.35	10.53	10.71	10.89		
60_0.34	4.86	5.04	5.22	5.40	5.58	5.76	5.94	6.12	6.30	6.48	6.66	6.84	7.02	7.20	7.38	7.56	7.74	7.92	8.10	8.28	8.46	8.64	8.82	9.00	9.18	9.36	9.54	9.72	9.90	10.08	10.26	10.44	10.62	10.80	10.98		
60_0.34	4.96	5.14	5.32	5.50	5.68	5.86	6.04	6.22	6.40	6.58	6.76	6.94	7.12	7.30	7.48	7.66	7.84	8.02	8.20	8.38	8.56	8.74	8.92	9.10	9.28	9.46	9.64	9.82	10.00	10.18	10.36	10.54	10.72	10.90	11.08		
70_0.34	5.05	5.23	5.41	5.59	5.77	5.95	6.13	6.31	6.49	6.67	6.85	7.03	7.21	7.39	7.57	7.75	7.93	8.11	8.29	8.47	8.65	8.83	9.01	9.19	9.37	9.55	9.73	9.91	10.09	10.27	10.45	10.63	10.81	10.99	11.17		
70_0.34	5.14	5.32	5.50	5.68	5.86	6.04	6.22	6.40	6.58	6.76	6.94	7.12	7.30	7.48	7.66	7.84	8.02	8.20	8.38	8.56	8.74	8.92	9.10	9.28	9.46	9.64	9.82	10.00	10.18	10.36	10.54	10.72	10.90	11.08	11.26		
80_0.34	5.23	5.41	5.59	5.77	5.95	6.13	6.31	6.49	6.67	6.85	7.03	7.21	7.39	7.57	7.75	7.93	8.11	8.29	8.47	8.65	8.83	9.01	9.19	9.37	9.55	9.73	9.91	10.09	10.27	10.45	10.63	10.81	10.99	11.17	11.35		
80_0.34	5.32	5.50	5.68	5.86	6.04	6.22	6.40	6.58	6.76	6.94	7.12	7.30	7.48	7.66	7.84	8.02	8.20	8.38	8.56	8.74	8.92	9.10	9.28	9.46	9.64	9.82	10.00	10.18	10.36	10.54	10.72	10.90	11.08	11.26	11.44		
90_0.34	5.41	5.59	5.77	5.95	6.13	6.31	6.49	6.67	6.85	7.03	7.21	7.39	7.57	7.75	7.93	8.11	8.29	8.47	8.65	8.83	9.01	9.19	9.37	9.55	9.73	9.91	10.09	10.27	10.45	10.63	10.81	10.99	11.17	11.35	11.53		
90_0.34	5.47	5.65	5.83	6.01	6.19	6.37	6.55	6.73	6.91	7.09	7.27	7.45	7.63	7.81	7.99	8.17	8.35	8.53	8.71	8.89	9.07	9.25	9.43	9.61	9.79	9.97	10.15	10.33	10.51	10.69	10.87	11.05	11.23	11.41	11.59		
100_0.34	5.56	5.74	5.92	6.10	6.28	6.46	6.64	6.82	7.00	7.18	7.36	7.54	7.72	7.90	8.08	8.26	8.44	8.62	8.80	8.98	9.16	9.34	9.52	9.70	9.88	10.06	10.24	10.42	10.60	10.78	10.96	11.14	11.32	11.50	11.68		
100_0.34	5.65	5.83	6.01	6.19	6.37	6.55	6.73	6.91	7.09	7.27	7.45	7.63	7.81	7.99	8.17	8.35	8.53	8.71	8.89	9.07	9.25	9.43	9.61	9.79	9.97	10.15	10.33	10.51	10.69	10.87	11.05	11.23	11.41	11.59	11.77		
110_0.34	5.74	5.92	6.10	6.28	6.46	6.64	6.82	7.00	7.18	7.36	7.54	7.72	7.90	8.08	8.26	8.44	8.62	8.80	8.98	9.16	9.34	9.52	9.70	9.88	10.06	10.24	10.42	10.60	10.78	10.96	11.14	11.32	11.50	11.68	11.86		
110_0.34	5.83	6.01	6.19	6.37	6.55	6.73	6.91	7.09	7.27	7.45	7.63	7.81	7.99	8.17	8.35	8.53	8.71	8.89	9.07	9.25	9.43	9.61	9.79	9.97	10.15	10.33	10.51	10.69	10.87	11.05	11.23	11.41	11.59	11.77	11.95		
120_0.34	5.92	6.10	6.28	6.46	6.64	6.82	7.00	7.18	7.36	7.54	7.72	7.90	8.08	8.26	8.44	8.62	8.80	8.98	9.16	9.34	9.52	9.70	9.88	10.06	10.24	10.42	10.60	10.78	10.96	11.14	11.32	11.50	11.68	11.86	12.04		
120_0.34	6.01	6.19	6.37	6.55	6.73	6.91	7.09	7.27	7.45	7.63	7.81	7.99	8.17	8.35	8.53	8.71	8.89	9.07	9.25	9.43	9.61	9.79	9.97	10.15	10.33	10.51	10.69	10.87	11.05	11.23	11.41	11.59	11.77	11.95	12.13		
130_0.34	6.10	6.28	6.46	6.64	6.82	7.00	7.18	7.36	7.54	7.72	7.90	8.08	8.26	8.44	8.62	8.80	8.98	9.16	9.34	9.52	9.70	9.88	10.06	10.24	10.42	10.60	10.78	10.96	11.14	11.32	11.50	11.68	11.86	12.04	12.22		
130_0.34	6.19	6.37	6.55	6.73	6.91	7.09	7.27	7.45	7.63	7.81	7.99	8.17	8.35	8.53	8.71	8.89	9.07	9.25	9.43	9.61	9.79	9.97	10.15	10.33	10.51	10.69	10.87	11.05	11.23	11.41	11.59	11.77	11.95	12.13	12.31		
140_0.34	6.28	6.46	6.64	6.82	7.00	7.18	7.36	7.54	7.72	7.90	8.08	8.26	8.44	8.62	8.80	8.98	9.16	9.34	9.52	9.70	9.88	10.06	10.24	10.42	10.60	10.78	10.96	11.14	11.32	11.50	11.68	11.86	12.04	12.22	12.40		
140_0.34	6.37	6.55	6.73	6.91	7.09	7.27	7.45	7.63	7.81	7.99	8.17	8.35	8.53	8.71	8.89	9.07	9.25	9.43	9.61	9.79	9.97	10.15	10.33	10.51	10.69	10.87	11.05	11.23	11.41	11.59	11.77	11.95	12.13	12.31	12.49		
150_0.34	6.46	6.64	6.82	7.00	7.18	7.36	7.54	7.72	7.90	8.08	8.26	8.44	8.62	8.80	8.98	9.16	9.34	9.52	9.70	9.88	10.06	10.24	10.42	10.60	10.78	10.96	11.14	11.32	11.50	11.68	11.86	12.04	12.22	12.40	12.58		
150_0.34	6.55	6.73	6.91	7.09	7.27	7.45	7.63	7.81	7.99	8.17	8.35	8.53	8.71	8.89	9.07	9.25	9.43	9.61	9.79	9.97	10.15	10.33	10.51	10.69	10.87	11.05	11.23	11.41	11.59	11.77	11.95	12.13	12.31	12.49	12.67		
160_0.34	6.64	6.82	7.00	7.18	7.36	7.54	7.72	7.90	8.08	8.26	8.44	8.62	8.80	8.98	9.16	9.34	9.52	9.70	9.88	10.06	10.24	10.42	10.60	10.78	10.96	11.14	11.32	11.50	11.68	11.86	12.04	12.22	12.40	12.58	12.76		
160_0.34	6.73	6.91	7.09	7.27	7.45	7.63	7.81	7.99	8.17	8.35	8.53	8.71	8.89	9.07	9.25	9.43	9.61	9.79	9.97	10.15	10.33	10.51	10.69	10.87	11.05	11.23	11.41	11.59	11.77	11.95	12.13	12.31	12.49	12.67	12.85		
170_0.34	6.82	7.00	7.18	7.36	7.54	7.72	7.90	8.08	8.26																												

Raw Data (ANT1@2G 2400MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0	12.12	10.35	8.5	6.65	4.85	3.05	1.25	-0.55	-2.35	-4.15	-5.95	-7.75	-9.55	-11.35	-13.15	-14.95	-16.75	-18.55	-20.35	-22.15	-23.95	-25.75	-27.55	-29.35	-31.15	-32.95	-34.75	-36.55	-38.35	-40.15	-41.95	-43.75	-45.55	-47.35	-49.15	-50.95	
5	12.28	10.5	8.75	6.95	5.15	3.35	1.55	-0.25	-2.05	-3.85	-5.65	-7.45	-9.25	-11.05	-12.85	-14.65	-16.45	-18.25	-20.05	-21.85	-23.65	-25.45	-27.25	-29.05	-30.85	-32.65	-34.45	-36.25	-38.05	-39.85	-41.65	-43.45	-45.25	-47.05	-48.85	-50.65	
10	12.44	10.65	8.95	7.15	5.35	3.55	1.75	-0.05	-1.85	-3.65	-5.45	-7.25	-9.05	-10.85	-12.65	-14.45	-16.25	-18.05	-19.85	-21.65	-23.45	-25.25	-27.05	-28.85	-30.65	-32.45	-34.25	-36.05	-37.85	-39.65	-41.45	-43.25	-45.05	-46.85	-48.65	-50.45	
15	12.6	10.85	9.15	7.35	5.55	3.75	1.95	-0.15	-1.95	-3.75	-5.55	-7.35	-9.15	-10.95	-12.75	-14.55	-16.35	-18.15	-19.95	-21.75	-23.55	-25.35	-27.15	-28.95	-30.75	-32.55	-34.35	-36.15	-37.95	-39.75	-41.55	-43.35	-45.15	-46.95	-48.75	-50.55	
20	12.76	11.05	9.35	7.55	5.75	3.95	2.15	-0.35	-2.15	-3.95	-5.75	-7.55	-9.35	-11.15	-12.95	-14.75	-16.55	-18.35	-20.15	-21.95	-23.75	-25.55	-27.35	-29.15	-30.95	-32.75	-34.55	-36.35	-38.15	-39.95	-41.75	-43.55	-45.35	-47.15	-48.95	-50.75	
25	12.92	11.21	9.55	7.75	5.95	4.15	2.35	-0.55	-2.35	-4.15	-5.95	-7.75	-9.55	-11.35	-13.15	-14.95	-16.75	-18.55	-20.35	-22.15	-23.95	-25.75	-27.55	-29.35	-31.15	-32.95	-34.75	-36.55	-38.35	-40.15	-41.95	-43.75	-45.55	-47.35	-49.15	-50.95	
30	13.08	11.37	9.71	7.91	6.11	4.31	2.51	-0.71	-2.51	-4.31	-6.11	-7.91	-9.71	-11.51	-13.31	-15.11	-16.91	-18.71	-20.51	-22.31	-24.11	-25.91	-27.71	-29.51	-31.31	-33.11	-34.91	-36.71	-38.51	-40.31	-42.11	-43.91	-45.71	-47.51	-49.31	-51.11	
35	13.24	11.53	9.87	8.07	6.27	4.47	2.67	-0.87	-2.67	-4.47	-6.27	-8.07	-9.87	-11.67	-13.47	-15.27	-17.07	-18.87	-20.67	-22.47	-24.27	-26.07	-27.87	-29.67	-31.47	-33.27	-35.07	-36.87	-38.67	-40.47	-42.27	-44.07	-45.87	-47.67	-49.47	-51.27	
40	13.4	11.69	10.03	8.23	6.43	4.63	2.83	-1.03	-2.83	-4.63	-6.43	-8.23	-10.03	-11.83	-13.63	-15.43	-17.23	-19.03	-20.83	-22.63	-24.43	-26.23	-28.03	-29.83	-31.63	-33.43	-35.23	-37.03	-38.83	-40.63	-42.43	-44.23	-46.03	-47.83	-49.63	-51.43	
45	13.56	11.85	10.19	8.39	6.59	4.79	2.99	-1.19	-2.99	-4.79	-6.59	-8.39	-10.19	-11.99	-13.79	-15.59	-17.39	-19.19	-20.99	-22.79	-24.59	-26.39	-28.19	-29.99	-31.79	-33.59	-35.39	-37.19	-38.99	-40.79	-42.59	-44.39	-46.19	-47.99	-49.79	-51.59	
50	13.72	12.01	10.35	8.55	6.75	4.95	3.15	-1.35	-3.15	-4.95	-6.75	-8.55	-10.35	-12.15	-13.95	-15.75	-17.55	-19.35	-21.15	-22.95	-24.75	-26.55	-28.35	-30.15	-31.95	-33.75	-35.55	-37.35	-39.15	-40.95	-42.75	-44.55	-46.35	-48.15	-49.95	-51.75	
55	13.88	12.17	10.51	8.71	6.91	5.11	3.31	-1.51	-3.31	-5.11	-6.91	-8.71	-10.51	-12.31	-14.11	-15.91	-17.71	-19.51	-21.31	-23.11	-24.91	-26.71	-28.51	-30.31	-32.11	-33.91	-35.71	-37.51	-39.31	-41.11	-42.91	-44.71	-46.51	-48.31	-50.11	-51.91	
60	14.04	12.33	10.67	8.87	7.07	5.27	3.47	-1.67	-3.47	-5.27	-7.07	-8.87	-10.67	-12.47	-14.27	-16.07	-17.87	-19.67	-21.47	-23.27	-25.07	-26.87	-28.67	-30.47	-32.27	-34.07	-35.87	-37.67	-39.47	-41.27	-43.07	-44.87	-46.67	-48.47	-50.27	-52.07	
65	14.2	12.49	10.83	9.03	7.23	5.43	3.63	-1.83	-3.63	-5.43	-7.23	-9.03	-10.83	-12.63	-14.43	-16.23	-18.03	-19.83	-21.63	-23.43	-25.23	-27.03	-28.83	-30.63	-32.43	-34.23	-36.03	-37.83	-39.63	-41.43	-43.23	-45.03	-46.83	-48.63	-50.43	-52.23	
70	14.36	12.65	10.99	9.19	7.39	5.59	3.79	-2.01	-3.79	-5.59	-7.39	-9.19	-10.99	-12.79	-14.59	-16.39	-18.19	-19.99	-21.79	-23.59	-25.39	-27.19	-28.99	-30.79	-32.59	-34.39	-36.19	-37.99	-39.79	-41.59	-43.39	-45.19	-46.99	-48.79	-50.59	-52.39	
75	14.52	12.81	11.15	9.35	7.55	5.75	3.95	-2.15	-3.95	-5.75	-7.55	-9.35	-11.15	-12.95	-14.75	-16.55	-18.35	-20.15	-21.95	-23.75	-25.55	-27.35	-29.15	-30.95	-32.75	-34.55	-36.35	-38.15	-39.95	-41.75	-43.55	-45.35	-47.15	-48.95	-50.75	-52.55	
80	14.68	12.97	11.31	9.51	7.71	5.91	4.11	-2.31	-4.11	-5.91	-7.71	-9.51	-11.31	-13.11	-14.91	-16.71	-18.51	-20.31	-22.11	-23.91	-25.71	-27.51	-29.31	-31.11	-32.91	-34.71	-36.51	-38.31	-40.11	-41.91	-43.71	-45.51	-47.31	-49.11	-50.91	-52.71	
85	14.84	13.13	11.47	9.67	7.87	6.07	4.27	-2.47	-4.27	-6.07	-7.87	-9.67	-11.47	-13.27	-15.07	-16.87	-18.67	-20.47	-22.27	-24.07	-25.87	-27.67	-29.47	-31.27	-33.07	-34.87	-36.67	-38.47	-40.27	-42.07	-43.87	-45.67	-47.47	-49.27	-51.07	-52.87	
90	15.0	13.29	11.63	9.83	8.03	6.23	4.43	-2.63	-4.43	-6.23	-8.03	-9.83	-11.63	-13.43	-15.23	-17.03	-18.83	-20.63	-22.43	-24.23	-26.03	-27.83	-29.63	-31.43	-33.23	-35.03	-36.83	-38.63	-40.43	-42.23	-44.03	-45.83	-47.63	-49.43	-51.23	-53.03	
95	15.16	13.45	11.79	9.99	8.19	6.39	4.59	-2.79	-4.59	-6.39	-8.19	-9.99	-11.79	-13.59	-15.39	-17.19	-18.99	-20.79	-22.59	-24.39	-26.19	-27.99	-29.79	-31.59	-33.39	-35.19	-36.99	-38.79	-40.59	-42.39	-44.19	-45.99	-47.79	-49.59	-51.39	-53.19	
100	15.32	13.61	11.95	10.15	8.35	6.55	4.75	-2.95	-4.75	-6.55	-8.35	-10.15	-11.95	-13.75	-15.55	-17.35	-19.15	-20.95	-22.75	-24.55	-26.35	-28.15	-29.95	-31.75	-33.55	-35.35	-37.15	-38.95	-40.75	-42.55	-44.35	-46.15	-47.95	-49.75	-51.55	-53.35	
105	15.48	13.77	12.11	10.31	8.51	6.71	4.91	-3.11	-4.91	-6.71	-8.51	-10.31	-12.11	-13.91	-15.71	-17.51	-19.31	-21.11	-22.91	-24.71	-26.51	-28.31	-30.11	-31.91	-33.71	-35.51	-37.31	-39.11	-40.91	-42.71	-44.51	-46.31	-48.11	-49.91	-51.71	-53.51	
110	15.64	13.93	12.27	10.47	8.67	6.87	5.07	-3.27	-5.07	-6.87	-8.67	-10.47	-12.27	-14.07	-15.87	-17.67	-19.47	-21.27	-23.07	-24.87	-26.67	-28.47	-30.27	-32.07	-33.87	-35.67	-37.47	-39.27	-41.07	-42.87	-44.67	-46.47	-48.27	-50.07	-51.87	-53.67	
115	15.8	14.09	12.43	10.63	8.83	7.03	5.23	-3.43	-5.23	-7.03	-8.83	-10.63	-12.43	-14.23	-16.03	-17.83	-19.63	-21.43	-23.23	-25.03	-26.83	-28.63	-30.43	-32.23	-34.03	-35.83	-37.63	-39.43	-41.23	-43.03	-44.83	-46.63	-48.43	-50.23	-52.03	-53.83	
120	15.96	14.25	12.59	10.79	8.99	7.19	5.39	-3.59	-5.39	-7.19	-8.99	-10.79	-12.59	-14.39	-16.19	-17.99	-19.79	-21.59	-23.39	-25.19	-26.99	-28.79	-30.59	-32.39	-34.19	-35.99	-37.79	-39.59	-41.39	-43.19	-44.99	-46.79	-48.59	-50.39	-52.19	-53.99	
125	16.12	14.41	12.75	10.95	9.15	7.35	5.55	-3.75	-5.55	-7.35	-9.15	-10.95	-12.75	-14.55	-16.35	-18.15	-19.95	-21.75	-23.55	-25.35	-27.15	-28.95	-30.75	-32.55	-34.35	-36.15	-37.95	-39.75	-41.55	-43.35	-45.15	-46.95	-48.75	-50.55	-52.35	-54.15	
130	16.28	14.57	12.91	11.11	9.31	7.51	5.71	-3.91	-5.71	-7.51	-9.31	-11.11	-12.91	-14.71	-16.51	-18.31	-20.11	-21.91	-23.71	-25.51	-27.31	-29.11	-30.91	-32.71	-34.51	-36.31	-38.11	-39.91	-41.71	-43.51	-45.31	-47.11	-48.91	-50.71	-52.51	-54.31	
135	16.44	14.73	13.07	11.27	9.47	7.67	5.87	-4.07	-5.87	-7.67	-9.47	-11.27	-13.07	-14.87	-16.67	-18.47	-20.27	-22.07	-23.87	-25.67	-27.47	-29.27	-31.07	-32.87	-34.67	-36.47	-38.27	-40.07	-41.87	-43.67	-45.47	-47.27	-49.07	-50.87	-52.67	-54.47	
140	16.6	14.89	13.23	11.43	9.63	7.83	6.03	-4.23	-6.03	-7.83	-9.63	-11.43	-13.23	-15.03	-16.83	-18.63	-20.43	-22.23	-24.03	-25.83	-27.63	-29.43	-31.23	-33.03	-34.83	-36.63	-38.43	-40.23	-42.03	-43.83	-45.63	-47.43	-49.23	-51.03	-52.83	-54.63	
145	16.76	15.05	13.39	11.59	9.79	7.99	6.19	-4.39	-6.19	-7.99	-9.79	-11.59	-13.39	-15.19	-16.99	-18.79	-20.59	-22.39	-24.19	-25.99	-27.79	-29.59	-31.39	-33.19	-34.99	-36.79	-38.59	-40.39	-42.19	-43.99	-45.79	-47.59	-49.39	-51.19	-52.99	-54.79	
150	16.92	15.21	13.55	11.75	9.95	8.15	6.35	-4.55	-6.35	-8.15	-9.95	-11.75	-13.55	-15.35	-17.15	-18.95	-20.75	-22.55	-24.35	-26.15	-27.95	-29.75	-31.55	-33.35	-35.15	-36.95	-38.75	-40.55	-42.35	-44.15	-45.95	-47.75	-49.55	-51.35	-53.15	-54.95	
155	17.08	15.37	13.71	11.91	10.11	8.31	6.51	-4.71	-6.51	-8.31	-10.11	-11.91	-13.71	-15.51	-17.31	-19.11	-20.91	-22.71	-24.51	-26.31	-28.11	-29.91	-31.71	-33.51	-35.31	-37.11	-38.91	-40.71	-42.51	-44.31	-46.11	-47.91	-49.71	-51.51	-53.31	-55.11	
160	17.24	15.53	13.87	12.07	10.27	8.47	6.67	-4.87	-6.67	-8.47	-10.27																										

Raw Data (ANT1@2G 2500MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Phi Angle (°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345	360	375	390	405	420	435	450	465	480	495	510	525	540	555	570	585	600	615	630	645	660	675	690	705	720	735	750	765	780	795	810	825	840	855	870	885	900	915	930	945	960	975	990	1005	1020	1035	1050	1065	1080	1095	1110	1125	1140	1155	1170	1185	1200	1215	1230	1245	1260	1275	1290	1305	1320	1335	1350	1365	1380	1395	1410	1425	1440	1455	1470	1485	1500	1515	1530	1545	1560	1575	1590	1605	1620	1635	1650	1665	1680	1695	1710	1725	1740	1755	1770	1785	1800	1815	1830	1845	1860	1875	1890	1905	1920	1935	1950	1965	1980	1995	2010	2025	2040	2055	2070	2085	2100	2115	2130	2145	2160	2175	2190	2205	2220	2235	2250	2265	2280	2295	2310	2325	2340	2355	2370	2385	2400	2415	2430	2445	2460	2475	2490	2505	2520	2535	2550	2565	2580	2595	2610	2625	2640	2655	2670	2685	2700	2715	2730	2745	2760	2775	2790	2805	2820	2835	2850	2865	2880	2895	2910	2925	2940	2955	2970	2985	3000	3015	3030	3045	3060	3075	3090	3105	3120	3135	3150	3165	3180	3195	3210	3225	3240	3255	3270	3285	3300	3315	3330	3345	3360	3375	3390	3405	3420	3435	3450	3465	3480	3495	3510	3525	3540	3555	3570	3585	3600	3615	3630	3645	3660	3675	3690	3705	3720	3735	3750	3765	3780	3795	3810	3825	3840	3855	3870	3885	3900	3915	3930	3945	3960	3975	3990	4005	4020	4035	4050	4065	4080	4095	4110	4125	4140	4155	4170	4185	4200	4215	4230	4245	4260	4275	4290	4305	4320	4335	4350	4365	4380	4395	4410	4425	4440	4455	4470	4485	4500	4515	4530	4545	4560	4575	4590	4605	4620	4635	4650	4665	4680	4695	4710	4725	4740	4755	4770	4785	4800	4815	4830	4845	4860	4875	4890	4905	4920	4935	4950	4965	4980	4995	5010	5025	5040	5055	5070	5085	5100	5115	5130	5145	5160	5175	5190	5205	5220	5235	5250	5265	5280	5295	5310	5325	5340	5355	5370	5385	5400	5415	5430	5445	5460	5475	5490	5505	5520	5535	5550	5565	5580	5595	5610	5625	5640	5655	5670	5685	5700	5715	5730	5745	5760	5775	5790	5805	5820	5835	5850	5865	5880	5895	5910	5925	5940	5955	5970	5985	6000	6015	6030	6045	6060	6075	6090	6105	6120	6135	6150	6165	6180	6195	6210	6225	6240	6255	6270	6285	6300	6315	6330	6345	6360	6375	6390	6405	6420	6435	6450	6465	6480	6495	6510	6525	6540	6555	6570	6585	6600	6615	6630	6645	6660	6675	6690	6705	6720	6735	6750	6765	6780	6795	6810	6825	6840	6855	6870	6885	6900	6915	6930	6945	6960	6975	6990	7005	7020	7035	7050	7065	7080	7095	7110	7125	7140	7155	7170	7185	7200	7215	7230	7245	7260	7275	7290	7305	7320	7335	7350	7365	7380	7395	7410	7425	7440	7455	7470	7485	7500	7515	7530	7545	7560	7575	7590	7605	7620	7635	7650	7665	7680	7695	7710	7725	7740	7755	7770	7785	7800	7815	7830	7845	7860	7875	7890	7905	7920	7935	7950	7965	7980	7995	8010	8025	8040	8055	8070	8085	8100	8115	8130	8145	8160	8175	8190	8205	8220	8235	8250	8265	8280	8295	8310	8325	8340	8355	8370	8385	8400	8415	8430	8445	8460	8475	8490	8505	8520	8535	8550	8565	8580	8595	8610	8625	8640	8655	8670	8685	8700	8715	8730	8745	8760	8775	8790	8805	8820	8835	8850	8865	8880	8895	8910	8925	8940	8955	8970	8985	9000	9015	9030	9045	9060	9075	9090	9105	9120	9135	9150	9165	9180	9195	9210	9225	9240	9255	9270	9285	9300	9315	9330	9345	9360	9375	9390	9405	9420	9435	9450	9465	9480	9495	9510	9525	9540	9555	9570	9585	9600	9615	9630	9645	9660	9675	9690	9705	9720	9735	9750	9765	9780	9795	9810	9825	9840	9855	9870	9885	9900	9915	9930	9945	9960	9975	9990	10005	10020	10035	10050	10065	10080	10095	10110	10125	10140	10155	10170	10185	10200	10215	10230	10245	10260	10275	10290	10305	10320	10335	10350	10365	10380	10395	10410	10425	10440	10455	10470	10485	10500	10515	10530	10545	10560	10575	10590	10605	10620	10635	10650	10665	10680	10695	10710	10725	10740	10755	10770	10785	10800	10815	10830	10845	10860	10875	10890	10905	10920	10935	10950	10965	10980	10995	11010	11025	11040	11055	11070	11085	11100	11115	11130	11145	11160	11175	11190	11205	11220	11235	11250	11265	11280	11295	11310	11325	11340	11355	11370	11385	11400	11415	11430	11445	11460	11475	11490	11505	11520	11535	11550	11565	11580	11595	11610	11625	11640	11655	11670	11685	11700	11715	11730	11745	11760	11775	11790	11805	11820	11835	11850	11865	11880	11895	11910	11925	11940	11955	11970	11985	12000	12015	12030	12045	12060	12075	12090	12105	12120	12135	12150	12165	12180	12195	12210	12225	12240	12255	12270	12285	12300	12315	12330	12345	12360	12375	12390	12405	12420	12435	12450	12465	12480	12495	12510	12525	12540	12555	12570	12585	12600	12615	12630	12645	12660	12675	12690	12705	12720	12735	12750	12765	12780	12795	12810	12825	12840	12855	12870	12885	12900	12915	12930	12945	12960	12975	12990	13005	13020	13035	13050	13065	13080	13095	13110	13125	13140	13155	13170	13185	13200	13215	13230	13245	13260	13275	13290	13305	13320	13335	13350	13365	13380	13395	13410	13425	13440	13455	13470	13485	13500	13515	13530	13545	13560	13575	13590	13605	13620	13635	13650	13665	13680	13695	13710	13725	13740	13755	13770	13785	13800	13815	13830	13845	13860	13875	13890	13905	13920	13935	13950	13965	13980	13995	14010	14025	14040	14055	14070	14085	14100	14115	14130	14145	14160	14175	14190	14205	14220	14235	14250	14265	14280	14295	14310	14325	14340	14355	14370	14385	14400	14415	14430	14445	14460	14475	14490	14505	14520	14535	14550	14565	14580	14595	14610	14625	14640	14655	14670	14685	14700	14715	14730	14745	14760	14775	14790	14805	14820	14835	14850	14865	14880	14895	14910	14925	14940	14955	14970	14985	15000	15015	15030	15045	15060	15075	15090	15105	15120	15135	15150	15165	15180	15195	15210	15225	15240	15255	15270	15285	15300	15315	15330	15345	15360	15375	15390	15405	15420	15435	15450	15465	15480	15495	15510	15525	15540	15555	15570	15585	15600	15615	15630	15645	15660	15675	15690	15705	15720	15735	15750	15765	15780	15795	15810	15825	15840	15855	15870	15885	15900	15915	15930	15945	15960	15975	15990	16005	16020	16035	16050	16065	16080	16095	16110	16125	16140	16155	16170	16185	16200	16215	16230	16245	16260	16275	16290	16305	16320	16335	16350	16365	16380	16395	16410	16425	16440	16455	16470	16485	16500	16515	16530	16545	16560	16575	16590	16605	16620	16635	16650	16665	16680	16695	16710	16725	16740	16755	16770	16785	16800	16815	16830	16845	16860	16875	16890	16905	16920	16935	16950	16965	16980	16995	17010	17025	17040	17055	17070	17085	17100	17115	17130	17145	17160	17175	17190	17205	17220	17235	17250	17265	17280	17295	17310	17325	17340	17355	17370	17385	17400	17415	17430	17445	17460	17475	17490	17505	17520	17535	17550	17565	17580	17595	17610	17625	17640	17655	17670	17685	17700	17715	17730	17745	17760	17775	17790	17805	17820	17835	17850	17865	17880	17895	17910	17925	17940	17955	17970	17985	18000	18015	18030	18045	18060	18075	18090	18105	18120	18135	18150	18165	18180	18195	18210	18225	18240	18255	18270	18285	18300	18315	18330	18345	18360	18375	18390	18405	18420	18435	18450	18465	18480	18495	18510	18525	18540	18555	18570	18585	18600	18615	18630	18645	18660	18675	18690	18705	18720	18735	18750	18765	18780	18795	18810	18825	18840	18855	18870	18885	18900	18915	18930	18945	18960	18975	18990	19005	19020	19035	19050	19065	19080	19095	19110

Raw Data (ANT2@2G 2400MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0_12.12	1.62	1.23	0.76	0.55	0.24	0.12	0.07	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
5_12.12	1.56	1.01	0.46	0.23	0.01	0.22	0.52	0.81	1.11	0.99	0.88	0.76	0.01	0.74	1.49	2.54	3.6	4.65	4.98	5.3	5.63	6.04	6.44	6.85	6.9	6.95	7	7.25	7.49	7.74	7.41	7.08	6.76	7.78	8.8	9.82	9.82	9.82
10_12.12	1.46	0.8	0.15	0.06	0.27	0.47	0.71	0.95	1.19	1.05	0.92	0.79	0.04	0.71	1.46	2.48	3.5	4.52	4.98	5.45	5.91	6.46	6.96	7.3	7.35	7.39	7.44	7.79	8.14	7.78	7.41	7.05	6.76	7.97	8.89	9.82	9.82	
15_12.12	1.36	0.6	0.16	0.35	0.54	0.73	0.91	1.09	1.27	1.12	0.96	0.81	0.06	0.69	1.44	2.42	3.4	4.39	4.99	5.59	6.2	6.33	6.47	6.61	6.8	6.99	7.18	7.64	8.09	8.54	8.14	7.74	7.34	8.17	8.99	9.82	9.82	
20_12.12	1.26	0.4	0.46	0.64	0.81	0.99	1.11	1.23	1.35	1.18	1.01	0.85	0.09	0.66	1.42	2.36	3.31	4.25	5	5.74	6.48	6.48	6.48	6.75	7.01	7.28	7.83	8.38	8.94	8.5	8.07	7.64	7.34	8.36	8.99	9.82	9.82	
25_12.12	1.16	0.21	0.74	0.91	1.08	1.26	1.31	1.37	1.43	1.32	1.22	1.11	0.28	0.56	1.39	2.31	3.21	4.12	5	5.88	6.77	6.63	6.5	6.36	6.7	7.03	7.37	7.88	8.39	8.91	8.58	8.26	7.93	8.56	9.19	9.82	9.82	
30_12.12	1.09	0.47	0.35	0.74	1.13	1.53	1.56	1.59	1.62	1.54	1.45	1.37	0.46	0.46	1.37	2.26	3.16	4.05	5.05	6.05	7.05	6.83	6.6	6.37	6.65	6.92	7.19	7.69	8.18	8.67	8.51	8.35	8.19	8.73	9.28	9.82	9.82	
35_12.12	1.42	0.73	0.04	0.57	1.18	1.79	1.81	1.82	1.83	1.76	1.7	1.63	0.66	0.31	1.29	2.24	3.2	4.16	5.17	6.18	7.19	6.97	6.76	6.54	6.69	6.85	7	7.48	7.95	8.43	8.44	8.45	8.46	8.49	9.36	9.82	9.82	
40_12.12	1.55	0.99	0.42	0.4	1.23	2.06	2.05	2.05	2.04	1.99	1.94	1.89	0.87	0.14	1.16	2.3	3.23	4.27	5.24	6.22	7.19	7.03	6.86	6.7	6.73	6.77	6.81	7.27	7.73	8.2	8.37	8.54	8.72	9.09	9.45	9.82	9.82	
45_12.12	1.68	1.25	0.81	0.23	1.28	2.33	2.3	2.27	2.25	2.22	2.19	2.15	1.09	0.03	1.04	2.5	3.26	4.57	5.31	6.25	7.19	7.08	6.97	6.86	6.78	6.69	6.61	7.06	7.51	7.96	8.3	8.64	8.98	9.26	9.54	9.82	9.82	
50_12.12	1.81	1.51	1.2	0.86	1.33	2.6	2.55	2.5	2.45	2.44	2.41	2.42	1.31	0.22	0.91	2.1	3.29	4.48	5.39	6.29	7.19	7.14	7.08	7.02	6.82	6.62	6.42	6.85	7.29	7.72	8.23	8.74	9.24	9.44	9.63	9.82	9.82	
55_12.12	1.94	1.77	1.59	1.11	1.38	2.86	2.8	2.73	2.66	2.67	2.67	2.68	1.52	0.37	0.79	2.06	3.32	4.59	5.46	6.33	7.2	7.19	7.19	7.19	6.87	6.54	6.22	6.64	7.06	7.48	8.16	8.83	9.51	9.61	9.71	9.82	9.82	
60_12.12	2.07	2.03	1.98	1.28	1.43	3.13	3.05	2.96	2.87	2.89	2.92	2.94	1.74	0.54	0.67	2.01	3.36	4.7	5.53	6.36	7.2	7.25	7.3	7.35	6.91	6.47	6.03	6.43	6.84	7.25	8.09	8.93	9.77	9.79	9.8	9.82	9.82	
65_12.12	2.2	2.29	2.37	0.45	1.48	3.4	3.29	3.19	3.08	3.12	3.16	3.2	1.95	0.7	0.54	1.96	3.39	4.81	5.61	6.44	7.2	7.3	7.41	7.51	6.95	6.39	5.83	6.23	6.62	7.01	8.02	9.03	10.03	9.96	9.89	9.82	9.82	
70_12.12	2.33	2.55	2.76	0.62	1.53	3.67	3.54	3.41	3.29	3.34	3.4	3.46	2.17	0.87	0.42	1.92	3.42	4.92	5.68	6.44	7.2	7.36	7.52	7.67	7	6.32	5.64	6.02	6.4	6.77	7.95	9.12	10.13	10.14	9.98	9.82	9.82	
75_12.12	2.46	2.81	3.15	0.79	1.57	3.94	3.79	3.64	3.49	3.57	3.65	3.72	2.38	1.04	0.29	1.87	3.45	5.03	5.75	6.47	7.2	7.41	7.62	7.84	7	6.24	5.44	5.81	6.17	6.54	7.88	9.22	10.36	10.31	10.06	9.82	9.82	
80_12.12	2.59	3.06	3.54	1.05	1.43	3.92	3.84	3.77	3.7	3.76	3.82	3.88	2.53	1.18	0.17	1.83	3.48	5.14	5.82	6.51	7.2	7.47	7.73	8	7.08	6.17	5.25	5.6	5.95	6.31	7.81	9.31	10.82	10.49	10.15	9.82	9.82	
85_12.12	2.72	3.32	3.93	1.35	1.22	3.79	3.83	3.87	3.91	3.81	3.72	3.62	3.4	1.18	0.05	1.78	3.51	5.24	5.9	6.55	7.2	7.52	7.84	8.16	7.73	6.69	5.66	5.39	5.73	6.06	7.74	9.41	11.08	10.66	10.24	9.82	9.82	
90_12.12	2.83	3.54	4.25	1.61	1.03	3.67	3.81	3.94	4	3.84	3.6	3.36	3.27	1.17	0.08	1.73	3.54	5.35	5.97	6.58	7.2	7.57	7.95	8.32	7.72	6.02	4.86	5.2	5.54	5.88	7.7	9.52	11.35	10.84	10.33	9.82	9.82	
95_12.12	2.78	3.45	4.11	1.56	0.96	3.55	3.66	3.76	3.86	3.61	3.36	3.1	3.14	1.17	0.28	1.69	3.57	5.46	6.04	6.62	7.2	7.62	8.05	8.47	7.72	5.94	4.67	5.12	5.56	6.01	7.77	9.52	11.28	10.79	10.3	9.82	9.82	
100_12.12	2.74	3.35	3.97	1.51	0.86	3.43	3.5	3.58	3.66	3.39	3.12	2.88	3.01	1.16	0.32	1.58	3.49	5.4	5.95	6.46	6.6	7.05	7.45	7.84	7.06	4.47	5.03	5.49	6.14	6.6	7.41	9.19	10.73	10.27	9.82	9.82		
105_12.12	2.69	3.26	3.83	1.45	0.93	3.31	3.35	3.4	3.45	3.16	2.87	2.59	3.81	1.04	0.26	1.57	3.41	5.25	5.9	6.54	7.19	7.57	7.94	8.17	6.87	5.58	4.28	4.94	5.61	6.28	7.88	9.49	11.09	10.67	10.24	9.82	9.82	
110_12.12	2.64	3.17	3.69	1.4	0.89	3.19	3.2	3.22	3.24	2.94	2.63	2.33	3.55	0.78	0.7	1.7	3.4	5.1	5.78	6.46	7.13	7.43	7.72	8.02	6.85	5.69	4.52	5.15	5.78	6.41	7.94	9.47	11	10.6	10.21	9.82	9.82	
115_12.12	2.59	3.07	3.55	1.35	0.86	3.06	3.05	3.04	3.03	2.71	2.39	2.07	3.29	0.52	0.26	1.82	3.39	4.95	5.66	6.37	7.08	7.34	7.6	7.87	6.85	5.83	4.81	5.39	5.96	6.54	8	9.45	10.9	10.54	10.18	9.82	9.82	
120_12.12	2.55	2.98	3.41	1.29	0.82	2.94	2.9	2.86	2.82	2.49	2.15	1.81	3.03	0.25	0.53	1.95	3.37	4.79	5.54	6.28	7.02	7.25	7.48	7.71	6.84	5.97	5.1	5.62	6.15	6.67	8.05	9.43	10.81	10.45	10.15	9.82	9.82	
125_12.12	2.5	2.89	3.27	1.24	0.79	2.82	2.75	2.68	2.66	2.31	1.96	1.56	2.77	0.01	0.79	2.07	3.36	4.64	5.42	6.19	6.86	7.16	7.36	7.56	6.84	6.01	5.39	5.86	6.33	6.81	8.11	9.41	10.72	10.42	10.12	9.82	9.82	
130_12.12	2.45	2.79	3.13	1.19	0.76	2.7	2.6	2.51	2.47	2.14	1.79	1.37	2.51	0.27	0.55	2.2	3.35	4.49	5.3	6.1	6.91	7.07	7.24	7.41	6.83	6.04	5.68	6.1	6.52	6.94	8.17	9.39	10.67	10.35	10.09	9.82	9.82	
135_12.12	2.41	2.7	2.99	1.13	0.72	2.58	2.45	2.33	2.2	1.81	1.43	1.04	2.25	0.53	1.31	2.32	3.33	4.34	5.18	6.01	6.85	6.99	7.12	7.26	6.83	6.4	5.97	6.33	6.7	7.07	8.22	9.38	10.53	10.29	10.05	9.82	9.82	
140_12.12	2.36	2.6	2.85	1.08	0.69	2.46	2.3	2.15	1.99	1.59	1.19	0.78	2	0.79	1.58	2.45	3.32	4.19	5.06	5.92	6.79	6.9	7	7.11	6.83	6.54	6.26	6.57	6.89	7.2	8.28	9.36	10.43	10.23	10.02	9.82	9.82	
145_12.12	2.31	2.51	2.71	1.03	0.65	2.33	2.15	1.97	1.78	1.38	0.94	0.52	0.26	1.05	1.84	2.57	3.31	4.04	4.94	5.84	6.73	6.81	6.88	6.96	6.82	6.68	6.55	6.81	7.07	7.34	8.34	9.34	10.34	10.17	9.99	9.82	9.82	
150_12.12	2.27	2.42	2.57	0.97	0.62	2.21	2	1.79	1.58	1.14	0.77	0.27	0.52	1.31	2.1	2.7	3.29	3.89	4.82	5.75	6.68	6.72	6.76	6.81	6.82	6.83	6.84	7.05	7.26	7.47	8.39	9.32	10.25	10.1	9.96	9.82	9.82	
155_12.12	2.22	2.32	2.43	0.92	0.58	2.09	1.85	1.61	1.37	0.91	0.46	0.21	0.78	1.57	2.37	2.87	3.48	4.37	5.3	6.26	6.62	6.63	6.64	6.66	6.81	6.97	7.12	7.28	7.44	7.6	8.45	9.3	10.15	10.04	9.93	9.82	9.82	
160_12.12	2.17	2.23	2.29	0.84	0.6	2.05	1.75	1.46	1.16	0.69	0.22	0.25	1.04	1.84	2.63	2.95	3.27	3.58	4.58	5.57	6.56	6.54	6.52	6.5	6.81	7.11	7.41	7.52	7.63	7.73	8.51	9.28	10.06	9.98	9.9	9.82	9.82	
165_12.12	2.13	2.14	2.15	0.76	0.62	2.01	1.66	1.31	0.95	0.62	0.29	0.05	1	1.94	2.89	3.07	3.25	3.43	4.46	5.48	6.51	6.45	6.4	6.35														

Raw Data (ANT3@2G 2400MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0.13.1	3.32	3.61	3.55	3.34	3.41	3.41	3.47	3.58	3.49	3.63	3.67	3.11	3.18	3.17	3.11	3.18	3.17	3.11	3.13	3.13	3.07	3.06	3.07	3.15	3.19	3.18	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19	3.19
5.13.1	3.32	3.52	3.72	3.3	2.89	2.47	1.39	0.31	0.78	1.35	0.91	0.48	0.03	0.58	0.13	1.22	1.57	5.92	6.62	7.31	8	8.07	8.14	8.22	6.64	5.05	3.47	4.86	6.24	7.62	6.31	5	3.69	4.34	5	5.65	
10.13.1	3.28	3.43	3.59	3.23	2.87	2.51	1.38	0.25	0.89	1.11	0.33	0.56	0.42	0.29	0.16	0.95	3.07	5.18	6.13	7.08	8.04	9.54	11.03	12.53	9.47	6.42	3.36	4.75	6.15	7.54	6.3	5.06	3.81	4.43	5.04	5.65	
15.13.1	3.24	3.35	3.46	3.15	2.85	2.54	1.36	0.19	0.99	0.87	0.76	0.64	0.82	1	0.19	0.68	2.56	4.44	5.65	6.86	8.08	11	13.93	16.85	12.31	7.78	3.74	4.65	6.05	7.46	6.28	5.11	3.94	4.51	5.08	5.65	
20.13.1	3.19	3.26	3.33	3.08	2.83	2.57	1.35	0.12	1.1	0.73	0.35	0.02	0.39	0.81	0.22	0.42	2.05	3.68	5.16	6.64	8.11	12.47	16.82	21.17	15.15	9.14	3.12	4.54	5.96	7.38	6.27	5.16	4.06	4.59	5.12	5.65	
25.13.1	3.15	3.17	3.2	2.94	2.69	2.44	1.22	0.01	0.21	0.54	0.48	0.11	0.49	0.87	0.25	0.15	1.54	2.94	4.68	6.41	8.15	12.04	15.92	19.81	14.21	8.61	3.01	4.44	5.87	7.3	6.26	5.22	4.18	4.67	5.16	5.65	
30.13.1	3.11	3.09	3.07	2.78	2.5	2.21	1.06	0.09	0.24	0.91	0.57	0.24	0.59	0.94	0.29	0.07	1.15	2.37	4.31	6.25	8.19	11.53	14.87	18.21	13.39	8.38	3.46	4.67	5.88	7.08	6.16	5.23	4.3	4.75	5.2	5.65	
35.13.1	3.1	3.07	3.05	2.69	2.34	1.98	0.9	0.18	0.36	0.96	0.67	0.37	0.69	1.01	0.33	0.18	0.97	2.12	4.03	5.94	7.85	10.77	13.69	16.61	12.39	8.17	3.96	4.85	5.74	6.63	5.89	5.15	4.41	4.82	5.23	5.65	
40.13.1	3.11	3.09	3.08	2.64	2.2	1.76	0.75	0.26	0.17	0.02	0.76	0.5	0.79	1.08	0.37	0.29	0.8	1.88	3.7	5.53	7.35	9.9	12.46	15.01	11.49	7.97	4.45	5.02	5.6	6.17	5.62	5.06	4.51	4.89	5.27	5.65	
45.13.1	3.12	3.11	3.1	2.58	2.06	1.53	0.59	0.35	0.29	0.07	0.85	0.63	0.89	1.15	0.41	0.39	0.62	1.63	3.57	5.12	6.86	9.04	11.22	13.41	10.59	7.77	4.95	5.2	5.46	5.71	5.34	4.98	4.61	4.95	5.3	5.65	
50.13.1	3.13	3.13	3.13	2.52	1.91	1.3	0.43	0.44	0.31	0.13	0.95	0.76	0.99	1.22	0.45	0.5	0.44	1.39	3.05	4.7	6.36	8.18	9.99	11.81	9.69	7.56	5.44	5.38	5.32	5.25	5.07	4.89	4.71	5.02	5.33	5.65	
55.13.1	3.14	3.15	3.16	2.47	1.77	1.08	0.28	0.52	0.32	0.18	0.04	0.9	0.09	0.29	0.49	0.61	0.26	1.14	2.72	4.29	5.87	7.31	8.76	10.21	8.79	7.36	5.94	5.56	5.18	4.8	4.8	4.81	4.81	5.09	5.37	5.65	
60.13.1	3.15	3.17	3.19	2.41	1.63	0.85	0.12	0.61	0.34	0.24	0.13	0.03	0.19	0.36	0.53	0.72	0.09	0.9	2.39	3.88	5.37	6.45	7.53	8.61	7.88	7.16	6.43	5.74	5.04	4.34	4.53	4.72	4.91	5.16	5.4	5.65	
65.13.1	3.16	3.19	3.22	2.35	1.49	0.62	0.04	0.7	0.36	0.29	0.22	0.16	0.29	0.43	0.57	0.83	0.09	0.65	2.06	3.47	4.88	5.59	6.3	7.01	6.98	6.96	6.93	5.91	4.9	3.88	4.26	4.64	5.01	5.22	5.44	5.65	
70.13.1	3.16	3.2	3.24	2.3	1.35	0.4	0.19	0.78	0.47	0.34	0.32	0.29	0.39	0.5	0.61	0.94	0.27	0.4	1.73	3.06	4.38	4.73	5.07	5.41	6.08	6.75	7.42	6.09	4.76	3.43	3.99	4.55	5.11	5.29	5.47	5.65	
75.13.1	3.17	3.22	3.27	2.24	1.21	0.17	0.35	0.87	0.39	0.4	0.41	0.42	0.5	0.57	0.65	0.85	0.44	0.16	1.4	2.64	3.89	4.86	5.84	6.81	7.8	8.55	7.92	6.27	4.62	2.97	3.72	4.47	5.21	5.46	5.5	5.65	
80.13.1	3.18	3.24	3.3	2.18	1.06	0.05	0.5	0.95	0.41	0.45	0.5	0.54	0.59	0.64	0.69	0.75	0.62	0.09	1.07	2.23	3.39	4.32	5.26	6.29	7.3	8.43	9.47	8.41	6.45	4.48	2.51	3.45	4.38	5.32	5.43	5.54	5.65
85.13.1	3.19	3.26	3.33	2.16	0.99	0.17	0.59	1.01	0.42	0.43	0.44	0.45	0.55	0.64	0.73	0.76	0.8	0.33	0.74	1.82	2.9	3.81	4.72	5.64	6.73	7.82	8.91	9.62	4.34	2.05	3.17	4.3	5.42	5.49	5.57	5.65	
90.13.1	3.2	3.28	3.36	2.2	1.04	0.12	0.56	1	0.44	0.41	0.39	0.37	0.5	0.63	0.77	0.77	0.98	0.58	0.41	1.41	2.4	3.49	4.59	5.68	6.91	7.13	9.36	10.77	4.18	1.6	2.9	4.21	5.52	5.56	5.6	5.65	
95.13.1	3.21	3.31	3.38	2.23	1.08	0.07	0.5	0.93	0.35	0.33	0.31	0.28	0.35	0.42	0.49	0.57	0.85	0.83	0.09	1	1.91	2.18	2.45	2.72	4.81	6.89	8.98	10.66	3.75	1.14	2.63	4.13	5.62	5.63	5.64	5.65	
100.13.1	3.22	3.32	3.41	2.27	1.13	0.01	0.42	0.83	0.24	0.33	0.21	0.2	0.19	0.19	0.24	0.39	0.74	0.02	0.69	1.41	1.86	2.12	2.37	4.71	6.65	8.59	10.41	3.84	1.48	2.88	4.3	5.72	5.77	5.87	5.93	5.95	
105.13.1	3.2	3.28	3.36	2.25	1.15	0.04	0.35	0.74	0.13	0.13	0.12	0.11	0.03	0.96	0.88	0.76	0.63	0.51	0.04	0.59	1.13	1.69	2.75	3.85	4.61	6.41	8.21	10.08	1.96	1.83	3.15	4.48	5.8	5.75	5.77	5.78	
110.13.1	3.17	3.22	3.26	2.21	1.15	0.09	0.28	0.65	0.02	0.02	0.02	0.02	0.87	0.73	0.58	0.47	0.37	0.27	0.21	0.69	1.17	1.73	2.29	2.85	4.51	6.17	7.83	5.95	4.08	2.21	3.42	4.63	5.84	5.78	5.71	5.65	
115.13.1	3.14	3.15	3.17	2.16	1.15	0.15	0.21	0.56	0.92	0.92	0.93	0.94	0.72	0.49	0.27	0.19	0.11	0.03	0.38	0.79	1.2	1.77	2.33	2.9	4.41	5.93	7.45	5.82	4.2	2.58	1.68	4.78	5.88	5.8	5.72	5.65	
120.13.1	3.11	3.09	3.08	2.12	1.16	0.2	0.14	0.47	0.81	0.82	0.84	0.85	0.56	0.26	0.03	0.09	0.15	0.02	0.55	0.89	1.24	1.81	2.37	2.94	4.32	5.69	7.06	5.69	4.33	2.96	1.94	4.73	5.92	5.83	5.74	5.65	
125.13.1	3.08	3.07	2.98	2.07	1.16	0.25	0.06	0.38	0.7	0.72	0.74	0.76	0.4	0.03	0.34	0.57	0.41	0.44	0.72	1	1.27	1.84	2.41	2.99	4.22	5.45	6.68	5.96	4.45	3.33	4.21	5.08	5.96	5.85	5.75	5.65	
130.13.1	3.05	2.97	2.89	2.03	1.17	0.31	0.01	0.29	0.59	0.62	0.65	0.68	0.24	0.2	0.64	0.66	0.67	0.68	0.89	1.1	1.3	1.88	2.46	3.03	4.12	5.21	6.3	5.43	4.57	3.71	4.47	5.23	6.1	5.88	5.76	5.65	
135.13.1	3.01	2.9	2.79	1.98	1.17	0.36	0.08	0.22	0.48	0.51	0.55	0.59	0.08	0.43	0.95	0.94	0.93	0.92	1.06	1.2	1.34	1.92	2.5	3.07	4.02	4.97	5.91	5.3	4.69	4.08	4.73	5.39	6.04	5.91	5.78	5.65	
140.13.1	2.98	2.84	2.7	1.94	1.17	0.41	0.15	0.11	0.33	0.37	0.41	0.46	0.51	0.08	0.67	1.25	1.22	1.19	1.16	1.23	1.3	1.37	1.96	2.54	3.12	3.92	4.73	5.53	5.17	4.82	4.46	5	5.54	6.08	5.93	5.79	5.65
145.13.1	2.95	2.78	2.61	1.89	1.18	0.46	0.22	0.02	0.26	0.31	0.36	0.42	0.24	0.09	0.36	1.5	1.45	1.39	1.4	1.4	1.4	1.41	1.99	2.58	3.16	3.82	4.49	5.15	5.04	4.94	4.83	5.26	5.69	6.12	5.96	5.8	5.65
150.13.1	2.92	2.72	2.51	1.85	1.18	0.52	0.3	0.08	0.15	0.21	0.27	0.33	0.4	1.15	1.86	1.79	1.71	1.63	1.57	1.51	1.44	2.03	2.62	3.21	3.73	4.25	4.77	4.91	5.06	5.21	5.52	5.84	6.16	5.99	5.82	5.65	
155.13.1	2.89	2.65	2.42	1.8	1.19	0.57	0.37	0.17	0.04	0.11	0.18	0.25	0.36	1.36	2.17	2.07	1.97	1.87	1.74	1.61	1.48	2.07	2.66	3.25	3.63	4.01	4.38	4.78	5.18	5.58	5.79	5.99	6.19	6.01	5.83	5.65	
160.13.1	2.86	2.59	2.32	1.76	1.19	0.62	0.44	0.26	0.07	0	0.08	0.16	0.72	1.6	2.47	2.35	2.23	2.11	1.91	1.71	1.51	2.11	2.71	3.31	3.54	3.77	4	4.65	5.31	5.96	6.05	6.14	6.23	6.04	5.84	5.65	
165.13.1	2.83	2.53	2.23	1.68	1.13	0.59	0.45	0.32	0.18	0.04	0.11	0.26	0.75	1.77	2.78	2.63	2.49	2.34	2.08	1.81	1.55	2.16	2.77	3.38	3.46	3.54	3.62	4.52	5.43	6.33	6.31	6.29	6.27	6.06	5.86	5.65	
170.13.1	2.8	2.47	2.14	1.59	1.04	0.49	0.43	0.36	0.29	0.05	0.19	0.43	0.74	1.91	3.08	2.92	2.75	2.58	2.25																		

Raw Data (ANT3@2G 2500MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
0_123	0.123	1.306	4.137	1.359	1.466	3.031	1.688	0.132	1.617	0.131	0.779	0.830	0.829	1.34	1.11	1.34	1.61	1.37	1.42	1.78	1.599	1.854	1.37	1.357	1.444	1.313	1.486	0.41	1.797	6.6	0.24	1.87	1.61	1.34	1.608			
5_123	1.353	3.63	4.13	3.78	3.43	3.08	1.68	0.28	1.11	0.71	0.31	0.91	0.4	1.89	0.39	0.88	3.15	5.41	5.98	6.55	7.13	7.11	7.1	7.09	5.8	4.52	3.23	4.76	0.29	7.81	6.57	5.32	4.07	4.74	5.41	6.08		
10_123	3.47	3.7	3.94	3.67	3.39	3.12	1.69	0.25	1.19	0.51	0.83	0.15	0.91	1.67	1.43	0.63	2.69	4.75	5.54	6.33	7.12	8.24	9.36	10.48	8.04	5.6	3.16	4.64	6.13	7.62	6.5	5.39	4.27	4.87	5.47	6.08		
15_123	3.41	3.58	3.75	3.55	3.36	3.17	1.69	0.22	1.26	1.3	1.35	1.39	1.42	1.45	1.48	0.38	2.24	4.41	5.1	6.11	7.11	9.16	11.61	13.86	10.27	6.67	3.08	4.53	5.98	7.43	6.44	5.46	4.47	5.01	5.54	6.08		
20_123	3.34	3.56	3.44	3.33	3.21	3.17	1.7	0.18	1.33	1.17	1.01	0.85	1.07	1.13	1.52	0.13	1.79	3.44	4.66	5.88	7.1	10.49	13.87	17.25	12.5	7.25	3	4.41	5.83	7.24	6.38	5.53	4.67	5.14	5.61	6.08		
25_123	1.28	1.32	1.36	1.36	1.35	1.64	1.55	0.07	0.41	0.35	0.29	0.31	0.14	1.36	0.57	0.12	1.33	2.78	4.23	5.66	7.09	10.17	13.25	16.32	11.86	7.39	2.92	4.3	5.67	7.05	6.32	5.6	4.87	5.27	5.67	6.08		
30_123	1.21	1.19	1.17	1.03	0.89	0.74	1.35	0.05	0.44	0.3	0.16	0.01	0.2	1.38	0.56	0.28	1.01	2.29	3.89	5.49	7.09	9.79	12.5	15.21	11.26	7.31	3.35	4.5	5.64	6.78	6.21	5.64	5.07	5.41	5.74	6.08		
35_123	3.2	3.16	3.12	2.9	2.67	2.45	1.15	0.16	1.46	1.34	1.23	1.1	1.25	1.4	1.56	0.34	0.88	2.1	3.66	5.22	6.78	9.22	11.65	14.1	10.67	7.25	3.82	4.67	5.51	6.36	5.97	5.57	5.18	5.48	5.78	6.08		
40_123	3.2	3.16	3.12	2.8	2.48	2.16	0.94	0.27	1.48	1.38	1.28	1.18	1.3	1.42	1.55	0.34	0.76	1.91	3.39	4.87	6.35	8.86	10.78	12.99	10.09	7.19	4.29	4.84	5.39	5.93	5.71	5.48	5.26	5.53	5.8	6.08		
45_123	3.2	3.16	3.13	2.71	2.29	1.87	0.74	0.38	1.5	1.42	1.34	1.26	1.36	1.45	1.54	0.45	0.63	1.72	3.12	4.52	5.91	7.91	8.89	11.88	9.51	7.13	4.76	5.01	5.26	5.51	5.45	5.4	5.34	5.38	5.81	6.08		
50_123	3.2	3.17	3.13	2.61	2.09	1.59	0.54	0.49	0.53	1.47	1.41	1.35	1.41	1.47	1.53	0.51	1.53	2.85	4.18	5.5	7.26	9.01	10.77	8.92	6.98	5.23	5.18	5.14	5.29	5.2	5.31	5.41	5.63	5.85	6.08			
55_123	3.2	3.17	3.14	2.52	1.97	1.28	0.34	0.6	1.55	1.51	1.47	1.43	1.46	1.49	1.52	0.57	0.38	1.33	2.58	3.83	5.08	6.6	8.13	9.66	8.34	7.02	5.7	5.36	5.01	4.67	4.94	5.22	5.49	5.68	5.88	6.08		
60_123	3.2	3.17	3.14	2.42	1.71	0.99	0.14	0.72	1.57	1.55	1.53	1.51	1.51	1.51	1.51	0.63	0.26	1.14	2.31	3.48	4.65	5.95	7.25	8.55	7.75	6.96	6.17	5.53	4.89	4.25	4.69	5.13	5.56	5.73	5.9	6.08		
65_123	3.2	3.17	3.14	2.33	1.51	0.7	0.07	0.83	1.59	1.59	1.59	1.6	1.56	1.53	1.5	0.69	0.13	0.95	2.04	3.13	4.22	5.29	6.36	7.43	7.17	6.9	6.64	5.7	4.76	3.83	4.43	5.04	5.64	5.78	5.93	6.08		
70_123	3.21	3.18	3.15	2.23	1.32	0.4	0.27	0.94	1.61	1.63	1.66	1.68	1.62	1.56	1.49	0.74	0.01	0.76	1.77	2.79	3.88	4.64	5.48	6.32	6.58	6.84	7.1	5.87	4.64	3.41	4.18	4.59	5.22	5.84	5.96	6.08		
75_123	3.21	3.18	3.15	2.14	1.12	0.11	0.47	0.05	1.63	1.68	1.72	1.76	1.67	1.58	1.49	0.8	0.12	0.57	1.5	2.44	3.37	3.99	4.6	5.21	6	6.79	7.57	6.04	4.52	2.99	1.92	1.86	2.79	3.89	5.08	6.08		
80_123	3.21	3.18	3.15	2.04	0.93	0.18	0.67	0.16	1.65	1.71	1.78	1.84	1.72	1.6	1.48	0.86	0.24	0.37	1.23	2.09	2.95	3.41	3.87	4.33	5.57	6.81	8.04	6.22	4.39	2.57	1.67	1.77	2.87	3.94	6.01	6.08		
85_123	3.21	3.18	3.16	1.99	0.82	0.35	0.79	0.23	1.68	1.69	1.71	1.73	1.65	1.56	1.47	0.92	0.37	0.18	0.96	1.74	2.52	3.09	3.66	4.23	5.68	7.08	8.51	6.99	4.27	2.14	1.41	1.68	3.94	5.99	6.03	6.08		
90_123	3.21	3.19	3.16	2	0.84	0.31	0.78	0.24	1.7	1.67	1.65	1.63	1.57	1.52	1.46	0.98	0.49	0.01	0.69	1.4	2.1	2.77	3.45	4.13	5.73	7.33	8.94	6.53	4.13	1.72	1.16	1.59	6.02	6.04	6.06	6.08		
95_123	3.21	3.19	3.17	2.02	0.87	0.28	0.73	0.18	1.64	1.6	1.56	1.53	1.43	1.34	1.24	0.89	0.55	0.2	0.42	1.05	1.67	2.46	3.24	4.02	5.54	7.05	8.57	6.15	3.72	1.3	2.9	4.59	6.09	6.09	6.08			
100_123	3.21	3.19	3.17	2.03	0.89	0.25	0.68	0.12	1.65	1.61	1.47	1.42	1.28	1.14	1.03	0.92	0.54	0.23	0.79	2.25	3.14	3.93	4.92	5.84	6.77	8.2	6.02	3.84	1.66	1.16	1.66	4.61	6.17	6.14	6.11	6.08		
105_123	3.19	3.14	3.09	1.99	0.89	0.22	0.64	0.05	1.47	1.42	1.37	1.3	1.13	1.05	0.76	0.49	0.27	0.05	0.37	0.69	1.02	1.95	2.88	3.81	5.15	6.49	7.83	5.91	3.99	1.27	1.35	1.83	4.21	6.17	6.12	6.08		
110_123	3.15	3.06	2.97	1.92	0.87	0.18	0.59	0.09	1.39	1.33	1.27	1.21	0.98	0.75	0.52	0.27	0.24	0.51	0.79	1.07	1.95	2.83	3.71	4.96	6.21	7.46	5.8	4.14	2.48	1.72	1.95	1.99	6.15	6.11	6.11	6.08		
115_123	3.11	2.98	2.86	1.85	0.85	0.15	0.54	0.02	1.31	1.24	1.18	1.11	0.83	0.56	0.28	0.34	0.19	0.42	0.66	0.89	1.12	1.95	2.77	3.6	4.76	5.93	7.09	5.69	4.29	2.89	1.98	5.08	6.17	6.14	6.11	6.08		
120_123	3.07	2.91	2.74	1.79	0.83	0.12	0.49	0.06	1.23	1.15	1.08	1.01	0.68	0.36	0.04	0.18	0.39	0.61	0.85	0.98	1.17	1.94	2.72	3.5	4.57	5.65	6.72	5.58	4.44	3.3	4.25	5.2	6.15	6.12	6.1	6.08		
125_123	3.03	2.85	2.62	1.72	0.82	0.09	0.44	0.06	1.08	0.99	0.9	0.53	0.17	0.32	0.4	0.6	0.8	0.94	1.08	1.22	1.94	2.67	3.39	4.38	5.36	6.35	7.47	4.59	3.71	4.52	5.32	6.13	6.11	6.09	6.08			
130_123	2.99	2.75	2.51	1.65	0.8	0.06	0.39	0.13	1.06	0.97	0.89	0.38	0.03	0.44	0.62	0.85	0.99	1.08	1.17	1.27	1.94	2.62	3.29	4.19	5.08	5.98	6.44	4.12	4.28	5.44	6.11	6.1	6.09	6.08				
135_123	2.95	2.67	2.39	1.59	0.78	0.02	0.34	0.66	0.98	0.88	0.79	0.69	0.23	0.22	0.68	0.85	1.01	1.17	1.22	1.27	1.94	2.56	3.19	3.99	4.8	5.61	5.25	4.89	4.53	5.05	5.77	6.08	6.08	6.08	6.08			
140_123	2.91	2.59	2.27	1.52	0.76	0.01	0.29	0.6	0.9	0.8	0.69	0.59	0.09	0.42	0.92	1.07	1.21	1.36	1.36	1.37	1.94	2.51	3.08	3.8	4.52	5.24	5.14	5.04	4.95	5.32	5.69	6.06	6.07	6.07	6.08			
145_123	2.88	2.52	2.16	1.45	0.75	0.04	0.24	0.53	0.82	0.71	0.6	0.49	0.06	0.61	1.16	1.29	1.42	1.55	1.5	1.46	1.42	1.94	2.46	2.98	3.61	4.24	4.87	5.03	5.2	5.36	5.58	5.81	6.04	6.05	6.06	6.08		
150_123	2.84	2.44	2.04	1.38	0.73	0.07	0.19	0.46	0.73	0.62	0.5	0.38	0.51	0.81	1.4	1.51	1.62	1.73	1.64	1.55	1.47	1.93	2.4	2.87	3.42	3.96	4.5	4.92	5.35	5.77	5.85	5.94	6.02	6.04	6.06	6.08		
155_123	2.8	2.36	1.92	1.32	0.71	0.11	0.15	0.4	0.65	0.53	0.44	0.28	0.36	0.64	1.3	1.43	1.57	1.67	1.52	1.43	1.37	1.92	2.35	2.77	3.22	3.68	4.13	4.52	5.5	6.18	6.17	6.16	6.15	6.14	6.13	6.12	6.08	
160_123	2.76	2.28	1.81	1.25	0.69	0.14	0.1	0.33	0.57	0.44	0.31	0.17	0.51	1.2	1.88	1.96	2.03	2.11	1.93	1.75	1.57	1.97	2.38	2.79	3.11	3.44	3.76	4.71	5.65	6.59	6.99	6.38	6.18	6.08	6.01	6.04	6.08	
165_123	2.72	2.2	1.69	1.16	0.63	0.1	0.1	0.29	0.49	0.4	0.31	0.23	0.56	1.34	2.12	2.18	2.24	2.29	2.07	1.84	1.62	2.03	2.45	2.87	3.04	3.22	3.39	4.6	5.8	7	6.65	6.3	5.95	5.99	6.03	6.08		
170_123	2.68	2.13	1.57	1.05	0.53	0.01	0.13	0.27	0.41	0.38	0.36	0.34	0.56	1.46	2.36																							

Raw Data (ANT0@5G 4900MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0.751	4.70	4.07	3.15	2.35	1.59	0.79	0.13	-0.46	-1.19	-1.93	-2.66	-3.39	-4.12	-4.85	-5.58	-6.31	-7.04	-7.77	-8.50	-9.23	-9.96	-10.69	-11.42	-12.15	-12.88	-13.61	-14.34	-15.07	-15.80	-16.53	-17.26	-17.99	-18.72	-19.45	-20.18	-20.91	-21.64
0.751	3.74	3.97	2.2	0.74	0.72	1.18	2.42	2.66	2.9	2.92	0.95	0.02	0.36	2.71	4.05	5.78	7.52	9.25	10.11	10.97	11.83	14.37	16.91	19.44	19.75	20.06	20.37	22.38	24.38	26.39	23.01	19.64	16.26	12.71	18.15	19.09	
10.751	3.68	3.86	2.04	0.64	0.77	1.17	2.52	2.86	3.2	3.13	1.06	0.01	1.09	2.18	3.26	5.24	7.21	9.18	9.5	9.82	10.14	13.24	16.33	19.43	19.51	19.59	19.68	21.55	23.45	25.35	22.3	19.29	16.28	12.72	18.16	19.09	
10.751	3.63	3.76	1.88	0.54	0.81	1.16	2.61	3.06	3.51	3.4	1.17	0.01	0.82	1.65	2.48	4.69	6.9	9.1	8.89	8.67	8.45	12.1	15.76	19.41	19.27	19.13	18.99	20.73	22.48	24.23	21.59	18.95	16.31	12.74	18.16	19.09	
20.751	3.58	3.65	1.73	0.44	0.86	1.15	2.7	3.26	3.82	3.55	2.29	1.02	0.55	1.13	1.7	4.14	6.59	9.03	8.27	7.52	6.76	10.96	15.15	19.35	19	18.65	18.3	19.91	21.51	23.15	20.87	18.6	16.33	12.75	18.17	19.09	
20.751	3.53	3.55	1.57	0.34	0.9	1.13	2.8	3.46	4.3	3.8	2.46	1.13	0.22	0.57	0.92	3.36	6.21	8.85	7.59	6.33	5.07	9.63	14.18	18.74	18.36	17.98	17.6	19.22	20.83	22.44	20.41	18.38	16.35	12.71	18.18	19.09	
30.751	3.56	3.62	1.67	0.41	0.85	1.11	2.76	3.4	4.45	2.78	1.51	0.25	0.12	0.01	0.13	2.97	5.8	8.64	7.6	6.56	5.51	9.72	13.93	18.13	17.73	17.32	16.91	18.56	20.21	21.85	20.07	18.28	16.5	13.76	18.23	19.09	
30.751	3.62	3.73	1.85	0.53	0.78	1.09	2.7	3.32	3.93	2.74	1.55	0.36	0.3	0.25	0.19	2.68	5.55	8.42	7.65	6.87	6.1	9.9	13.71	17.52	17.17	16.82	16.46	18.06	19.67	21.27	19.73	18.19	16.65	14.76	18.28	19.09	
40.751	3.68	3.85	2.02	0.65	0.71	1.07	2.65	3.23	3.81	2.7	1.59	0.48	0.35	0.22	0.09	2.68	5.44	8.2	7.7	7.19	6.68	10.09	13.5	16.92	16.72	16.52	16.32	17.77	19.23	20.69	19.39	18.09	16.8	17.56	18.33	19.09	
40.751	3.73	3.96	2.19	0.78	0.64	1.06	2.6	3.15	3.69	2.66	1.5	0.39	0.39	0.19	0.01	2.67	5.33	7.99	7.74	7.5	7.26	10.27	13.29	16.31	16.26	16.22	16.17	17.48	18.79	20.09	19.04	18	16.95	17.66	18.38	19.09	
50.751	3.79	4.08	2.36	0.9	0.57	1.04	2.55	3.06	3.58	2.62	1.66	0.7	0.43	0.16	0.11	2.67	5.22	7.77	7.79	7.82	7.84	10.46	13.08	15.7	15.81	15.92	16.03	17.19	18.35	19.51	18.7	17.9	17.74	18.43	19.09		
60.751	3.85	4.19	2.53	1.02	0.5	1.02	2.5	2.98	3.46	2.58	1.7	0.82	0.47	0.13	0.22	2.66	5.11	7.55	7.84	8.13	8.42	10.64	12.87	15.09	15.35	15.62	15.89	16.9	17.91	18.92	18.36	17.81	17.25	17.87	18.48	19.09	
60.751	3.91	4.31	2.71	1.14	0.43	1	2.45	2.9	3.35	2.54	1.74	0.93	0.52	0.1	0.32	2.66	5	7.34	7.89	8.45	9	10.83	12.65	14.68	14.9	15.32	15.74	16.6	17.47	18.33	18.02	17.71	17.4	17.97	18.53	19.09	
60.751	3.96	4.42	2.88	1.26	0.36	0.98	2.4	2.81	3.23	2.51	1.78	1.05	0.56	0.07	0.42	2.65	4.89	7.12	7.94	8.76	9.58	11.01	12.44	13.87	14.45	15.02	15.6	16.31	17.03	17.74	17.68	17.62	17.55	18.07	18.58	19.09	
70.751	4.02	4.54	3.05	1.38	0.29	0.96	2.34	2.73	3.12	2.47	1.82	1.16	0.6	0.04	0.52	2.65	4.78	6.9	7.99	9.08	10.07	11.2	12.23	13.26	13.99	14.72	15.45	16.02	16.59	17.16	17.34	17.52	17.71	18.03	18.63	19.09	
70.751	4.08	4.65	3.22	1.5	0.22	0.94	2.29	2.65	3	2.43	1.85	1.28	0.64	0.01	0.62	2.64	4.66	6.69	8.04	9.19	10.75	11.38	12.02	12.65	13.54	14.42	15.31	15.73	16.15	16.57	17	17.43	17.85	18.27	18.68	19.09	
80.751	4.14	4.77	3.39	1.62	0.15	0.92	2.24	2.56	2.89	2.39	1.89	1.39	0.69	0.02	0.72	2.64	4.55	6.47	8.09	9.71	11.33	11.66	11.98	12.31	13.26	14.21	15.16	15.44	15.71	15.98	16.66	17.33	18	18.37	18.73	19.09	
80.751	4.19	4.88	3.57	1.74	0.08	0.9	2.19	2.48	2.77	2.34	1.91	1.48	0.71	0.05	0.82	2.63	4.44	6.25	8.14	10.02	11.91	12.12	12.44	12.66	13.45	14.23	15.02	15.14	15.27	15.4	16.32	17.24	18.16	18.47	18.78	19.09	
90.751	4.25	4.99	3.74	1.87	0	0.87	2.13	2.39	2.66	2.3	1.94	1.58	0.74	0.09	0.93	2.63	4.33	6.03	8.18	10.34	12.49	12.66	12.84	13.01	13.63	14.25	14.87	14.92	14.96	15	16.1	17.2	18.31	18.57	18.83	19.09	
90.751	4.22	4.93	3.64	1.81	0.01	0.84	2.08	2.31	2.54	2.25	1.96	1.67	0.77	0.13	1.03	2.61	4.2	5.78	8.03	10.27	12.52	12.8	13.08	13.36	13.82	14.27	14.73	14.85	14.98	15.1	16.22	17.34	18.46	18.67	18.88	19.09	
100.751	4.14	4.77	3.41	1.67	0.07	0.81	2.02	2.22	2.43	2.11	1.99	1.76	0.8	0.16	1.06	2.58	4.53	6.86	9.18	11.5	12.91	13.31	13.71	14	14.39	14.58	14.79	15	15.2	16.2	17.4	18.5	18.69	18.89	19.09		
100.751	4.06	4.62	3.18	1.52	0.13	0.78	1.96	2.14	2.32	2.16	2.01	1.86	0.83	0.19	1.21	2.57	4.93	7.28	9.69	10.09	10.29	12.49	13.01	13.54	14.06	14.19	14.31	14.44	14.73	15.02	15.31	16.33	17.36	18.39	18.62	18.86	19.09
110.751	3.99	4.47	2.95	1.38	0.19	0.76	1.9	2.05	2.2	2.12	2.03	1.95	0.88	0.18	1.25	2.51	3.77	5.04	7.52	10	12.48	13.12	13.77	14.41	14.46	14.52	14.57	14.85	15.13	15.41	16.36	17.32	18.28	18.55	18.82	19.09	
110.751	3.91	4.31	2.71	1.23	0.25	0.73	1.85	1.97	2.09	2.07	2.06	2.04	0.93	0.17	1.28	2.45	3.62	4.79	7.35	9.9	12.46	13.23	13.99	14.76	14.76	14.75	14.75	15	15.26	15.51	16.4	17.28	18.17	18.48	18.79	19.09	
120.751	3.83	4.16	2.48	1.09	0.3	0.7	1.79	1.88	1.98	2.03	2.08	2.14	0.98	0.17	1.32	2.39	3.47	4.54	7.18	9.81	12.45	13.34	14.22	15.11	15.05	14.99	14.93	15.15	15.38	15.61	16.43	17.24	18.06	18.4	18.75	19.09	
120.751	3.75	4.05	2.35	0.94	0.36	0.67	1.73	1.86	1.96	2.08	2.11	2.23	1.04	0.16	1.35	2.33	3.31	4.29	7.01	9.72	12.43	13.44	14.45	15.46	15.34	15.22	15.11	15.31	15.51	15.71	16.46	17.21	17.95	18.33	18.71	19.09	
130.751	3.68	3.85	2.02	0.38	0.42	0.64	1.68	1.71	1.75	1.94	2.13	2.32	1.09	0.15	1.39	2.27	3.16	4.04	6.84	9.63	12.42	13.55	14.68	15.81	15.63	15.46	15.28	15.46	15.63	16.49	17.17	17.94	18.26	18.68	19.09		
130.751	3.6	3.69	1.79	0.65	0.48	0.61	1.62	1.63	1.63	1.89	2.16	2.42	1.14	0.14	1.42	2.21	3.01	3.8	6.67	9.54	12.41	13.66	14.91	16.16	15.92	15.69	15.46	15.61	15.76	15.91	16.52	17.13	17.73	18.19	18.64	19.09	
140.751	3.52	3.54	1.56	0.51	0.54	0.58	1.56	1.54	1.52	1.85	2.18	2.51	1.19	0.14	1.46	2.15	2.85	3.55	6.5	9.44	12.39	13.76	15.13	16.51	16.22	15.93	15.64	15.77	15.89	16.02	16.55	17.09	17.63	18.11	18.6	19.09	
140.751	3.45	3.48	1.32	0.36	0.59	0.55	1.5	1.46	1.41	1.81	2.2	2.6	1.24	0.13	1.49	2.09	2.7	3.3	6.33	9.35	12.38	13.87	15.36	16.85	16.51	16.16	15.82	15.92	16.02	16.12	16.58	17.05	17.52	18.04	18.57	19.09	
150.751	3.37	3.23	1.09	0.22	0.65	0.53	1.45	1.37	1.29	1.76	2.23	2.69	1.29	0.12	1.53	2.04	2.54	3.05	6.16	9.26	12.36	13.98	15.59	17	16.8	16.4	16	16.07	16.14	16.22	16.62	17.01	17.41	17.97	18.53	19.09	
150.751	3.29	3.08	0.86	0.07	0.71	0.5	1.39	1.29	1.18	1.72	2.25	2.79	1.34	0.11	1.56	1.98	2.49	2.8	5.99	9.17	12.35	14.08	15.82	17.55	17.09	16.63	16.17	16.22	16.27	16.32	16.65	16.97	17.3	17.8	18.5	19.09	
160.751	3.21	2.92	0.63	0.07	0.77	0.47	1.33	1.2	1.07	1.67	2.28	2.88	1.39	0.1	1.6	1.92	2.24	2.56	5.82	9.08	12.34	14.13	15.93	17.72	17.27	16.81	16.35	16.38	16.4	16.42	16.68	16.93	17.19	17.82	18.46	19.09	
160.751	3.14	2.77	0.4	0.21	0.82	0.43	1.27	1.11	0.95	1.56	1.18	1.79	1.32	0.16	1.6																						

Raw Data (ANT0@5G 5900MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180		
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)		
0.4	9.2	1.3	1.4	0.7	0.5	1.1	0.1	1.6	0.3	0.9	1.3	0.9	1.6	0.9	1.1	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3			
4.8	9.7	6.52	4.08	1.64	0.78	0.07	0.92	1.77	2.61	0.46	2.66	0.87	0.07	0.06	0.96	1.97	3.74	5.51	7.28	8.13	8.98	9.83	11.52	13.22	14.92	14.65	14.39	14.12	13.53	16.48	17.66	16.94	16.21	15.49	15.04	14.6	14.15		
10.8	9.7	6.75	4.52	2.3	1.22	0.15	0.93	1.93	2.99	0.05	1.1	3.3	0.5	1.3	3.3	5.29	7.29	7.97	8.25	8.73	10.54	12.35	14.16	14.04	13.91	13.79	15.11	16.43	17.75	17.26	16.61	16.27	15.56	14.86	14.15				
16.8	9.7	6.97	4.96	2.96	1.66	0.37	0.93	3.09	3.25	4.4	3.32	2.23	1.14	3.55	0.04	0.63	2.85	5.08	7.3	7.41	7.53	7.64	9.36	11.48	13.4	13.42	13.44	13.46	14.92	16.38	17.84	17.58	17.31	17.05	16.08	15.12	14.15		
20.9	9.7	7.19	5.41	3.63	2.1	0.58	0.94	2.25	3.56	3.88	3.64	2.41	1.17	3.8	2.42	3.04	2.41	4.86	7.31	7.66	8.8	9.55	8.6	10.04	12.69	12.83	12.98	13.12	14.73	17.33	17.93	17.89	17.86	17.82	16.6	15.38	14.15		
24.9	9.7	7.41	5.85	4.29	2.54	0.8	0.95	2.41	3.88	3.14	3.86	2.57	1.19	4.03	2.87	3.71	3.93	4.58	7.23	6.64	6.05	5.46	7.8	10.14	12.48	12.58	12.69	12.79	14.36	15.92	17.48	17.86	18.23	18.6	17.12	15.63	14.15		
30.8	9.7	7.42	5.88	4.34	2.57	0.81	0.95	2.35	3.74	3.14	3.82	2.51	1.2	4.26	3.32	3.8	4.58	4.28	7.11	6.67	6.23	5.79	7.95	10.1	11.26	12.33	12.39	12.46	13.93	15.4	16.87	17.49	18.12	18.74	17.21	15.68	14.15		
36.8	9.7	7.38	5.8	4.22	2.49	0.77	0.96	2.26	3.57	3.88	3.65	2.43	1.21	3.6	3.5	4.65	4.23	4.41	6.98	6.72	6.47	6.21	8.15	10.1	12.05	12.13	12.21	12.29	13.61	14.93	16.26	17.12	17.99	18.85	17.27	15.72	14.15		
40.8	9.7	7.34	5.72	4.1	2.41	0.73	0.96	3.18	3.14	4.61	3.48	2.35	1.22	3.33	3.43	3.54	4.26	4.06	6.86	6.78	6.7	6.63	8.36	10.1	11.84	12	12.16	12.32	13.43	14.54	15.64	16.75	17.86	18.97	17.36	15.76	14.15		
45.8	9.7	7.31	5.64	3.98	2.33	0.68	0.97	2.1	3.22	4.35	3.31	2.27	1.23	3.3	3.37	3.43	4.29	4.02	6.74	6.84	6.94	7.05	8.57	10.1	11.62	11.87	12.11	12.35	13.24	14.14	15.03	16.38	17.73	19.08	17.43	15.79	14.15		
50.8	9.7	7.27	5.56	3.86	2.25	0.64	0.97	2.01	3.05	4.09	3.14	2.19	1.24	3.27	3.3	3.32	4.33	3.97	6.62	6.9	7.18	7.46	8.78	10.09	11.41	11.73	12.06	12.39	13.06	13.74	14.41	16	17.6	19.19	17.51	15.83	14.15		
56.8	9.7	7.23	5.49	3.75	2.17	0.6	0.98	1.93	2.88	3.83	2.97	2.11	1.26	3.24	3.23	3.21	4.36	3.93	6.5	6.96	7.42	7.88	8.99	10.09	11.2	11.6	12.01	12.42	12.88	13.34	13.8	15.63	17.47	19.3	17.58	15.87	14.15		
60.8	9.7	7.19	5.41	3.63	2.09	0.56	0.98	1.84	2.71	3.57	2.8	2.04	1.27	3.21	3.16	3.1	4.39	3.88	6.38	7.02	7.66	8.3	9.2	10.09	10.98	11.47	11.96	12.45	12.69	12.94	13.18	15.26	16.73	19.41	17.66	15.9	14.15		
65.8	9.7	7.15	5.33	3.51	2.01	0.51	0.99	1.76	2.54	3.31	2.63	1.96	1.28	3.18	3.1	3.1	4.42	3.84	6.26	7.08	7.79	8.72	9.4	10.09	10.77	11.34	11.91	12.48	12.51	12.54	12.57	14.89	17.2	19.52	17.73	15.94	14.15		
70.8	9.7	7.11	5.25	3.39	1.93	0.47	0.99	1.68	2.36	3.05	2.46	1.88	1.29	3.16	3.02	3.89	4.45	3.8	6.14	7.14	8.14	9.14	9.61	10.08	10.56	11.21	11.86	12.51	13.33	14.14	15.03	16.38	17.73	19.08	17.43	15.79	14.15		
75.8	9.7	7.07	5.17	3.27	1.85	0.43	1	1.59	2.19	2.39	2.39	1.8	1.3	3.13	3.05	3.78	4.49	3.75	6.01	7.2	8.38	9.56	9.82	10.08	10.34	11.08	11.81	12.53	13.24	14.14	15.03	16.38	17.73	19.08	17.43	15.79	14.15		
80.8	9.7	7.03	5.09	3.16	1.77	0.38	1	1.51	2.02	2.53	2.13	1.73	1.33	3.11	3.09	3.67	4.52	3.71	5.89	7.26	8.62	9.98	10.05	10.12	10.2	10.99	11.78	12.58	13.28	14.14	15.03	16.38	17.73	19.08	17.43	15.79	14.15		
85.8	9.7	6.99	5.01	3.04	1.69	0.34	1.01	1.43	1.85	2.27	2.01	1.76	1.51	3.19	3.07	3.56	4.55	3.66	5.77	7.31	8.86	10.4	10.34	10.28	10.22	11.02	11.81	12.61	13.41	14.14	15.03	16.38	17.73	19.08	17.43	15.79	14.15		
90.8	9.7	6.95	4.94	2.92	1.61	0.31	1.04	1.68	2.02	2.91	1.8	1.68	1.27	3.06	3.45	3.58	4.58	3.6	5.62	7.36	9.09	10.82	10.63	10.44	10.24	11.04	11.84	12.64	13.44	14.14	15.03	16.38	17.73	19.08	17.43	15.79	14.15		
95.8	9.7	6.91	4.85	2.8	1.53	0.27	0.99	1.3	1.61	1.92	1.9	1.88	1.86	3.35	3.85	3.4	4.56	3.46	5.37	7.23	9.09	10.95	10.73	10.55	10.27	11.07	11.87	12.67	13.47	14.14	15.03	16.38	17.73	19.08	17.43	15.79	14.15		
100.8	9.7	6.87	4.77	2.67	1.45	0.23	0.98	1.26	1.54	1.81	1.89	1.86	2.04	3.44	3.83	3.23	4.53	3.33	5.13	7.1	9.08	10.87	10.81	10.55	10.29	11.1	11.9	12.71	13.51	14.14	15.03	16.38	17.73	19.08	17.43	15.79	14.15		
105.8	9.7	6.81	4.68	2.54	1.37	0.2	0.98	1.22	1.46	1.71	1.88	1.85	2.21	3.57	3.82	3.13	4.53	3.19	4.85	6.96	9.07	11.18	10.89	10.61	10.32	11.12	11.93	12.74	13.54	14.14	15.03	16.38	17.73	19.08	17.43	15.79	14.15		
110.8	9.7	6.78	4.6	2.42	1.29	0.16	0.97	1.18	1.39	1.6	1.87	1.13	2.39	3.6	3.82	3.03	4.51	3.06	4.6	6.83	9.06	11.29	10.98	10.66	10.34	11.28	12.22	13.15	14.14	15.03	16.38	17.73	19.08	17.43	15.79	14.15			
115.8	9.7	6.74	4.52	2.29	1.21	0.12	0.96	1.14	1.32	1.5	1.85	1.21	2.57	3.69	3.81	3.07	4.49	2.92	4.34	6.7	9.05	11.41	11.06	10.71	10.37	11.45	12.54	13.63	14.53	15.44	16.34	17.24	18.14	19.04	17.68	15.92	14.15		
120.8	9.7	6.7	4.43	2.16	1.13	0.09	0.95	1.1	1.24	1.39	1.84	2.29	2.75	3.78	3.81	3.16	4.47	2.78	4.09	6.56	9.04	11.52	11.14	10.77	10.39	11.63	12.87	14.11	15.41	16.38	17.24	18.14	19.04	17.68	15.92	14.15			
125.8	9.7	6.66	4.35	2.04	1.04	0.05	0.95	1.06	1.17	1.28	1.83	2.38	2.92	3.86	3.8	3.26	4.45	2.64	3.83	6.43	9.03	11.63	11.23	10.82	10.42	11.58	12.81	14.04	15.38	16.38	17.24	18.14	19.04	17.68	15.92	14.15			
130.8	9.7	6.62	4.26	1.91	0.96	0.01	0.94	1.02	1.1	1.18	1.82	2.46	3.1	3.85	3.43	2.5	3.57	6.3	6.02	8.74	11.31	11.31	10.88	10.44	10.98	12.58	13.52	15.06	15.61	16.17	17.17	18.14	19.04	17.68	15.92	14.15			
135.8	9.7	6.57	4.18	1.79	0.88	0.03	0.93	0.98	1.03	1.07	1.81	2.54	3.28	3.04	2.79	4.45	1.4	2.36	3.32	6.16	9.01	11.86	11.39	10.93	10.46	12.16	13.85	15.54	15.97	16.41	17.41	18.41	19.31	20.21	19.11	17.68	15.92	14.15	
140.8	9.7	6.53	4.1	1.66	0.8	0.06	0.92	0.94	0.95	0.97	1.8	2.63	3.45	3.12	2.79	4.54	1.38	2.22	3.06	6.03	9	11.97	11.48	10.98	10.48	12.33	14.17	16.02	17.43	18.05	19.07	19.4	20.34	21.24	20.14	18.68	15.92	14.15	
145.8	9.7	6.49	4.01	1.53	0.72	0.1	0.92	0.9	0.88	0.86	1.79	2.71	3.63	3.21	2.78	4.64	1.36	2.08	2.8	5.9	8.99	12.08	11.56	11.04	10.51	12.51	14.5	16.49	17.92	18.4	19.34	20.24	21.14	22.04	20.94	19.44	17.68	15.92	14.15
150.8	9.7	6.45	3.93	1.41	0.64	0.14	0.91	0.86	0.81	0.76	1.77	2.79	3.81	3.29	2.78	4.73	1.34	1.94	2.55	5.76	8.98	12.2	11.64	11.09	10.54	12.68	14.83	16.97	18.06	19.14	20.24	21.14	22.04	22.94	21.84	20.34	18.68	15.92	14.15
155.8	9.7	6.41	3.84	1.28	0.55	0.17	0.9	0.82	0.73	0.65	1.76	2.87	3.99	3.38	2.78	4.83	1.28	1.82	2.29	5.63	8.97	12.31	11.73	11.14	10.56	12.86	15.15	17.45	18.52	19.62	20.72	21.82	22.92	23.82	22.72	21.22	19.68	15.92	14.15
160.8	9.7	6.36	3.76	1.16	0.47	0.21	0.89	0.78	0.66	0.55	1.75	2.96	4.16	3.47	2.77	4.93	1.3	1.66	2.03	5.5	8.96	12.42	11.84	11.24	10.65	13.07	15.35	17.65	18.72	19.82	20.92	22.02	23.12	2					

Raw Data (ANT1@5G 4900MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0_0.5	1.62	1.1	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
0_5.0	1.58	1.1	0.7	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
0_10.0	1.53	1.01	0.51	0.09	0.47	0.05	0.28	0.61	0.9	0.84	0.74	0.65	0.2	0.25	0.69	2.1	3.51	4.91	6.58	8.24	9.9	11.24	12.59	13.93	14.68	15.43	16.18	15.98	15.78	15.58	17.81	20.03	22.26	21.96	21.66	21.35	
0_15.0	1.48	0.91	0.65	0.01	0.17	0.27	0.14	0.55	0.9	0.86	0.77	0.68	0.19	0.3	0.79	2.17	3.54	4.92	6.46	8	9.54	10.88	12.22	13.56	14.57	15.58	16.58	16.35	16.11	15.88	17.87	19.87	21.87	21.7	21.52	21.35	
0_20.0	1.43	0.82	0.8	0.04	0.27	0.49	0.1	0.49	0.9	0.89	0.8	0.71	0.18	0.35	0.88	2.22	3.55	4.88	6.31	7.75	9.18	10.53	11.88	13.23	14.48	15.74	16.99	16.72	16.45	16.17	17.94	19.71	21.47	21.43	21.39	21.35	
0_25.0	1.38	0.72	0.94	0.06	0.17	0.71	0.14	0.43	0.9	0.89	0.79	0.69	0.13	0.42	0.98	2.25	3.53	4.8	6.16	7.52	8.88	10.29	11.7	13.11	14.34	15.97	17.39	17.09	16.78	16.47	18.01	19.54	21.08	21.17	21.26	21.35	
0_30.0	1.39	0.72	0.94	0.11	0.28	0.56	0.03	0.49	0.02	0.9	0.78	0.66	0.06	0.94	1.14	2.34	3.53	4.72	6.26	7.8	9.34	10.56	11.77	12.99	14.59	16.19	17.8	17.43	17.06	16.69	18.02	19.35	20.69	20.91	21.13	21.35	
0_35.0	1.4	0.74	0.91	0.21	0.5	0.2	0.21	0.62	0.04	0.91	0.77	0.64	0.01	0.66	1.31	2.42	3.53	4.64	6.36	8.08	9.79	10.82	11.84	12.87	14.61	16.34	18.08	17.67	17.26	16.84	17.99	19.14	20.29	20.64	21.1	21.35	
0_40.0	1.41	0.76	0.88	0.31	0.73	0.15	0.47	0.79	1.11	0.95	0.78	0.62	0.08	0.78	1.48	2.51	3.54	4.56	6.46	8.35	10.25	11.08	11.92	12.75	14.59	16.43	18.27	17.85	17.42	17	17.96	18.92	19.88	20.72	20.86	21.35	
0_45.0	1.42	0.78	0.85	0.4	0.96	0.51	0.74	0.97	1.2	1	0.79	0.59	0.16	0.91	1.65	2.6	3.54	4.48	6.56	8.63	10.7	11.34	11.99	12.63	14.57	16.52	18.46	18.03	17.59	17.16	17.93	18.7	19.47	20.1	20.72	21.35	
0_50.0	1.43	0.78	0.82	0.5	1.18	0.86	1	1.14	1.28	1.34	0.81	0.57	0.23	1.03	1.83	2.68	3.54	4.4	6.65	8.91	11.16	11.61	12.06	12.51	14.56	16.6	18.65	18.21	17.76	17.31	17.89	18.47	19.05	19.82	20.39	21.35	
0_55.0	1.44	0.82	0.79	0.6	1.41	1.22	1.27	1.32	1.37	1.09	0.82	0.55	0.3	1.15	2	2.77	3.55	4.32	6.25	9.18	11.61	11.87	12.13	12.39	14.54	16.69	18.84	18.38	17.93	17.47	17.86	18.25	18.64	19.54	20.45	21.35	
0_60.0	1.45	0.84	0.76	0.7	1.63	1.57	1.53	1.49	1.45	1.14	0.83	0.52	0.37	1.27	2.17	2.68	3.55	4.24	6.85	9.46	12.07	12.13	12.2	12.27	14.52	16.78	19.03	18.56	18.1	17.63	17.83	18.03	18.23	19.27	20.31	21.35	
0_65.0	1.46	0.86	0.73	0.8	1.86	1.93	1.8	1.67	1.54	1.19	0.84	0.5	0.45	1.39	2.34	2.95	3.55	4.16	6.95	9.73	12.52	12.4	12.27	12.15	14.51	16.86	19.22	18.74	18.26	17.79	17.8	17.82	18.99	20.17	21.35		
0_70.0	1.47	0.88	0.7	0.89	2.09	2.28	2.06	1.84	1.62	1.24	0.86	0.47	0.52	1.51	2.51	3.03	3.56	4.08	7.05	10.01	12.98	12.66	12.35	12.03	14.49	16.95	19.41	18.92	18.43	17.94	17.76	17.58	17.4	18.72	20.04	21.35	
0_75.0	1.48	0.89	0.67	0.99	2.31	2.64	2.33	2.02	1.71	1.29	0.87	0.45	0.59	1.64	2.68	3.12	3.56	4	7.14	10.29	13.43	12.92	12.42	11.91	14.47	17.34	19.6	19.1	18.6	18.1	17.73	17.36	16.99	18.44	19.9	21.35	
0_80.0	1.49	0.92	0.64	0.99	2.54	2.99	2.59	2.19	1.8	1.36	0.92	0.49	0.63	1.74	2.85	3.31	3.76	4.22	7.44	10.66	13.89	13.21	12.53	11.85	14.57	17.14	19.79	19.28	18.77	18.26	17.7	17.14	16.58	18.17	19.76	21.35	
0_85.0	1.5	0.94	0.61	0.19	2.77	3.35	2.86	2.37	1.88	1.45	1.02	0.59	0.62	1.82	3.02	3.49	3.96	4.43	7.74	11.04	14.34	13.54	12.75	11.95	14.63	17.3	19.98	19.46	18.94	18.41	17.66	16.91	16.16	17.89	19.67	21.35	
0_90.0	1.51	0.96	0.58	0.29	2.99	3.7	3.12	2.54	1.97	1.54	1.12	0.69	0.6	1.9	3.19	3.68	4.16	4.65	7.95	11.25	14.55	13.72	12.88	12.05	14.76	17.46	20.17	19.64	19.1	18.57	17.63	16.69	15.75	17.62	19.49	21.35	
0_95.0	1.55	1.05	0.45	0.26	3.08	3.89	3.27	2.66	2.05	1.63	1.21	0.79	0.46	1.72	2.97	3.6	4.24	4.87	7.94	11.02	14.09	13.44	12.8	12.15	14.89	17.62	20.36	19.8	19.23	18.67	17.56	16.45	15.34	17.34	19.35	21.35	
100_0.5	1.6	1.15	0.7	0.39	0.87	0.66	0.15	0.65	0.14	0.72	0.31	0.89	0.32	0.54	0.75	0.53	0.31	0.509	0.94	0.78	0.63	0.17	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	0.271	
100_5.0	1.65	1.26	1.14	0.91	0.67	0.44	0.03	0.63	0.77	0.81	0.4	0.99	0.18	0.36	0.54	0.36	0.48	0.531	0.93	1.055	13.17	12.9	12.62	12.35	15.14	17.94	20.74	20.02	19.3	18.58	17.23	15.86	14.53	16.79	19.07	21.35	
110_0.5	1.7	1.36	0.98	0.73	0.47	0.21	0.91	0.62	0.32	0.91	0.5	0.99	0.04	0.18	0.2	0.39	0.445	0.552	0.92	1.02	12.72	12.63	12.54	12.45	15.15	17.85	20.56	19.89	19.21	18.54	17.18	15.83	14.47	16.76	19.06	21.35	
115_0.5	1.76	1.46	1.83	0.55	0.27	0.98	0.81	0.64	0.46	0.04	0.62	1.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
120_0.5	1.81	1.57	0.67	0.37	0.06	0.76	2.71	0.66	0.61	0.17	0.73	1.3	0.24	0.82	1.88	3.24	4.6	5.96	7.91	9.85	11.8	12.08	12.36	12.45	14.55	17.26	19.57	19.2	18.82	18.45	17.22	15.99	14.77	16.96	19.16	21.35	
125_0.5	1.86	1.67	0.52	0.19	0.86	0.53	2.6	0.68	0.75	0.3	0.85	1.4	0.38	0.64	1.66	3.17	4.67	6.18	7.9	9.62	11.34	11.81	12.74	14.55	16.86	18.63	18.41	17.24	16.38	14.91	13.66	13.06	15.21	16.35	19.21	21.35	
130_0.5	1.91	1.78	0.36	0.01	0.66	0.31	2.5	0.7	0.89	0.43	0.96	1.5	0.52	0.46	1.45	3.1	4.75	6.39	7.89	9.39	10.88	11.54	12.19	12.84	14.77	16.67	18.58	18.51	18.44	16.16	15.06	12.16	12.56	15.26	16.35	19.35	
135_0.5	1.96	1.88	0.2	0.83	0.46	0.08	2.4	0.72	0.03	0.56	0.08	1.6	0.66	0.28	1.23	3.02	4.82	6.61	7.88	9.15	10.43	11.26	12.1	12.94	14.65	16.37	18.08	18.16	18.24	18.32	17.28	16.25	15.21	12.26	19.3	21.35	
140_0.5	2.02	1.99	0.05	0.65	0.25	0.86	0.3	0.74	0.38	0.69	0.19	1.7	0.8	0.11	1.01	2.95	4.89	6.83	7.88	8.92	9.97	10.99	12.01	13.04	14.56	16.07	17.59	17.82	18.05	18.28	17.3	16.33	15.36	17.36	19.35	21.35	
145_0.5	2.07	2.09	0.11	0.47	0.05	1.63	0.19	0.76	0.32	0.81	0.11	1.8	0.94	0.07	0.79	2.88	4.96	7.05	7.87	8.69	9.51	10.72	11.93	13.14	14.46	15.78	17.09	17.47	17.85	18.23	17.32	16.41	15.5	17.45	19.4	21.35	
150_0.5	2.12	2.19	0.27	0.29	0.85	0.4	0.09	0.78	0.46	0.94	0.42	1.9	1.08	0.25	0.57	2.86	5.04	7.27	7.86	8.46	9.05	10.45	11.84	13.24	14.36	15.48	16.6	17.13	17.66	18.19	17.34	16.3	15.65	17.55	19.45	21.35	
155_0.5	2.17	2.3	0.42	0.11	0.65	0.18	0.9	0.8	0.61	0.07	0.54	0.7	1.22	0.43	0.36	2.73	5.11	7.48	7.85	8.22	8.59	10.17	11.75	13.34	14.26	15.18	16.4	16.78	17.46	18.14	17.36	16.58	15.8	17.63	19.5	21.35	
160_0.5	2.23	2.4	0.58	0.07	0.44	0.95	0.88	0.82	0.75	0.19	0.63	2.07	1.34	0.6	0.14	2.61	5.08	7.55	7.75	7.94	8.13	9.88	11.63	13.38	14.12	14.87	15.61	16.44	17.27	18.1	17.38	16.67	15.95	17.75	19.55	21.35	
165_0.5	2.28	2.51	0.74	0.25	0.24	0.73	0.78	0.84	0.89	0.31	0.72	2.14	1.45	0.77	0.08	2.36	4.79	7.23	7.38	7.53	7.68	9.51	11.34	13.18	13.82	14.47	15.11										

Raw Data (ANT1@5G 5900MHz)

(Phi Angle)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
(Phi Angle)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
9.8-21	5.15	2.09	0.97	0.45	0.07	0.58	0.49	0.39	0.29	0.65	1	1.16	1.4	1.45	1.49	2.98	4.46	5.94	7.86	9.78	11.7	12.37	13.04	13.72	14.26	14.8	15.34	14.49	13.64	12.79	14.94	17.1	19.25	19.22	19.18	19.15	
9.8-21	5.06	1.9	0.86	0.45	0.07	0.54	0.47	0.32	0.27	0.11	0.54	0.97	1.4	1.38	1.35	1.33	2.86	4.4	5.94	7.69	9.43	11.18	11.91	12.64	13.37	14.08	14.78	15.48	14.73	13.97	13.22	15.54	17.86	20.04	19.84	19.49	19.15
10.8-21	5.06	1.9	0.86	0.45	0.07	0.54	0.47	0.32	0.27	0.11	0.54	0.97	1.4	1.38	1.35	1.33	2.86	4.4	5.94	7.69	9.43	11.18	11.91	12.64	13.37	14.08	14.78	15.48	14.73	13.97	13.22	15.54	17.86	20.04	19.84	19.49	19.15
15.8-21	4.26	1.51	0.84	0.5	0.25	0.34	0.28	0.07	0.25	0.44	0.97	1.5	1.3	1.16	0.99	0.86	4.29	5.94	7.34	8.74	10.14	10.99	11.84	12.69	13.71	14.73	15.75	15.73	15.73	14.74	17.84	19.94	22.04	20.84	20.11	19.15	
20.8-21	4.76	1.32	2.13	2.25	3.36	0.53	0.21	0.11	0.43	0.23	0.88	1.53	1.3	1.16	0.82	0.5	4.18	5.86	7.12	8.37	9.63	10.55	11.47	12.39	13.56	14.72	15.89	16.26	16.63	17	18.99	20.98	22.97	21.69	20.42	19.15	
25.8-21	4.67	1.12	2.42	2.44	3.46	0.52	0.14	0.23	0.59	0.09	0.78	1.47	1.2	0.93	0.66	0.35	4.04	5.73	6.88	8.03	9.17	10.25	11.33	12.4	13.61	14.82	16.02	16.77	17.1	15.16	20.24	22.02	23.89	23.31	20.73	19.15	
30.8-21	4.65	1.1	2.46	2.55	3.63	0.59	0.29	0.07	0.43	0.9	0.06	0.67	1.4	1.24	1.08	0.93	4.28	4.04	5.59	6.89	8.19	9.48	10.46	11.44	12.41	13.66	14.91	16.16	17.05	17.95	18.85	20.84	22.83	24.82	23.91	21.04	19.15
35.8-21	4.66	1.11	2.45	2.65	3.85	0.55	0.35	0.66	0.97	0.2	0.57	1.33	1.4	1.46	1.54	1.2	4.05	4.6	6.35	7.58	8.79	9.79	10.67	11.55	12.43	13.7	14.97	16.25	17.16	17.07	18.99	21.4	23.43	25.75	25.55	23.1	19.15
40.8-21	4.66	1.11	2.43	2.67	3.89	0.57	0.39	0.74	1.07	0.29	0.69	1.47	1.5	1.52	1.6	1.4	4.32	4.9	6.7	7.92	9.12	10.27	11.38	12.48	13.6	14.83	16.02	16.94	17.3	18.99	21.4	23.43	25.75	25.55	23.1	19.15	
45.8-21	4.67	1.12	2.42	2.86	3.29	0.73	0.87	1.01	1.15	0.37	0.42	1.2	1.41	1.63	1.84	2.96	4.07	5.19	6.93	8.67	10.41	11.09	11.77	12.45	13.75	15.06	16.36	17.33	18.3	19.27	21.28	23.3	25.32	25.32	21.21	19.15	
50.8-21	4.67	1.13	2.41	2.86	3.51	0.77	1.07	1.12	1.18	0.23	0.44	0.34	1.13	1.47	1.81	2.15	3.12	4.09	5.06	6.94	8.83	10.72	11.3	11.88	12.46	13.75	15.1	16.42	17.41	18.41	19.41	21.29	23.17	25.05	23.08	21.12	19.15
55.8-21	4.68	1.14	2.39	3.06	3.44	0.81	1.18	1.35	1.32	0.52	0.27	1.07	1.53	1.99	2.45	3.28	4.1	4.92	6.96	9	11.03	11.51	11.99	12.47	13.8	15.14	16.48	17.5	18.52	19.55	21.29	23.04	24.78	22.91	21.03	19.15	
60.8-21	4.68	1.15	2.38	3.17	3.96	0.75	1.63	1.52	1.4	0.6	0.2	1.59	2.17	2.76	3.44	4.11	4.92	6.97	9.16	11.34	11.72	12.1	12.48	13.8	15.18	16.53	17.58	18.64	19.69	21.3	23.01	24.51	22.73	21.04	19.15		
65.8-21	4.68	1.15	2.37	3.18	4.08	0.77	1.63	1.68	1.48	0.63	0.23	1.64	2.33	3.07	3.8	4.59	5.37	7.36	9.68	11.72	12.1	12.48	13.8	15.18	16.53	17.58	18.64	19.69	21.3	23.01	24.51	22.73	21.04	19.15			
70.8-21	4.69	1.17	2.35	3.38	2.4	2.43	2.14	2.85	3.57	0.76	0.05	0.87	1.7	2.54	3.37	3.75	4.13	4.52	7	9.48	11.96	12.14	12.32	12.5	13.88	15.26	16.65	17.75	18.86	19.97	21.3	22.64	23.98	23.7	20.76	19.15	
75.8-21	4.67	1.18	2.34	3.48	2.62	2.77	2.39	2.02	2.65	0.83	0.02	0.8	1.76	2.72	3.68	3.91	4.15	4.48	7.01	9.64	12.27	12.35	12.43	12.51	13.91	15.31	16.7	17.84	18.97	20.11	21.31	22.51	23.71	23.19	20.67	19.15	
80.8-21	4.7	1.19	2.33	3.58	2.85	3.11	2.65	2.19	2.73	0.91	0.1	0.72	1.81	2.9	3.98	4.19	4.4	4.61	7.37	9.93	12.58	12.56	12.55	12.53	13.94	15.35	16.76	17.92	19.08	20.25	21.31	22.38	23.45	22.70	20.58	19.15	
85.8-21	4.71	1.2	2.31	3.69	3.07	3.07	2.45	2.9	3.16	0.82	0.19	0.18	0.64	1.86	3.07	4.29	4.48	4.66	8.85	13.53	10.21	12.89	12.78	12.67	12.55	13.97	15.4	16.82	18.01	19.2	20.39	21.32	22.25	23.18	21.84	20.5	19.15
90.8-21	4.71	1.21	2.29	3.79	3.26	3.16	2.59	3.36	3.36	0.9	0.28	0.18	0.66	1.9	3.36	4.75	4.75	4.75	9.32	13.67	12.77	12.77	12.77	12.77	12.77	13.98	15.43	16.88	18.07	19.28	20.4	21.53	22.47	23.41	21.66	19.15	
95.8-21	4.81	1.41	2.6	4.05	3.51	3.96	3.1	2.64	3.98	1.6	0.35	0.47	1.73	2.99	4.24	4.6	4.96	5.32	7.76	10.01	12.64	12.63	12.62	12.61	14.05	15.49	16.93	18.12	19.31	20.49	21.21	21.93	22.65	21.48	20.32	19.15	
100.8-21	4.94	1.67	3.61	4.32	3.02	3.73	3.18	2.62	2.07	1.25	0.43	0.39	1.56	2.73	3.9	4.45	5	5.55	7.79	10.02	12.26	12.38	12.51	12.63	14.08	15.53	16.99	18.18	19.03	20.24	21.26	22.38	21.6	21.33	20.23	19.15	
105.8-21	5.07	1.93	2.22	3.98	2.74	3.51	3.05	2.6	2.15	1.33	0.51	0.3	1.39	2.47	3.55	4.3	5.04	5.79	7.82	9.85	11.88	12.14	12.4	12.66	14.12	15.58	17.04	17.89	19.03	20.18	21.27	22.21	21.13	20.14	20.14	19.15	
110.8-21	5.23	2.18	0.83	5.65	2.46	3.28	2.93	2.59	2.24	1.42	0.6	0.32	1.22	2.21	3.2	4.44	5.08	6.02	7.85	9.67	11.5	11.89	12.29	12.68	14.13	15.57	17.01	17.72	18.42	19.12	19.98	20.85	21.71	20.86	20.01	19.15	
115.8-21	5.33	2.44	1.41	5.31	3.18	0.55	2.83	2.6	2.37	1.54	0.7	1.14	1.84	1.99	3.1	3.98	4.58	5.55	7.88	9.55	11.22	11.65	11.88	12.26	13.71	15.11	16.51	16.91	17.49	18.08	18.66	19.25	20.03	20.85	19.85	19.15	
120.8-21	5.46	2.7	1.05	5.88	3.5	0.82	3.05	2.87	2.67	1.69	0.51	0.51	1.84	2.16	3.49	4.36	4.69	5.93	7.92	9.32	10.77	11.12	11.27	11.61	13.07	14.39	15.44	16.41	17.41	18.41	19.41	20.41	21.41	22.41	23.41	19.15	
125.8-21	5.59	2.96	0.34	6.64	3.62	2.6	2.61	2.62	2.64	1.77	0.29	0.03	0.7	1.43	2.17	3.69	5.2	6.72	7.94	9.15	10.36	11.16	11.96	12.76	13.99	15.39	16.77	17.05	17.4	17.75	18.6	19.46	20.31	20.93	19.54	19.15	
130.8-21	5.72	3.22	0.73	7.3	3.34	2.37	2.5	2.64	2.77	1.89	1	0.11	0.53	1.18	1.82	3.53	5.25	6.66	7.97	9.97	9.98	10.92	11.85	12.79	14.06	15.33	16.6	16.83	17.06	17.29	18.14	18.99	19.85	19.62	19.38	19.15	
135.8-21	5.85	3.48	1.12	8.03	3.06	2.14	2.4	2.65	2.9	2	1.1	0.2	0.36	0.92	1.47	3.38	5.29	7.19	8	8.8	9.6	10.67	11.74	12.81	14.04	15.27	16.49	16.61	16.72	16.83	17.88	18.53	19.38	19.3	19.23	19.15	
140.8-21	5.98	3.74	1.5	8.57	2.77	0.91	2.29	2.66	3.04	1.22	0.28	0.19	0.66	1.13	2.33	5.33	7.43	8.43	8.63	8.63	9.23	10.43	11.63	12.84	14.02	15.21	16.39	16.39	16.38	16.37	17.22	18.07	18.91	18.99	19.07	19.15	
145.8-21	6.14	4.18	1.89	8.49	2.67	0.44	2.67	3.14	3.58	1.27	0.4	0.26	0.87	1.48	2.57	5.88	8.07	9.33	10.58	11.83	13.08	14.33	15.58	16.83	18.08	19.33	20.58	21.83	23.08	24.33	25.58	26.83	28.08	29.33	30.58	19.15	
150.8-21	6.24	4.26	1.28	9.04	2.21	0.46	2.07	2.69	3.3	0.35	0.14	0.45	1.15	0.14	0.44	2.92	5.41	7.9	8.09	8.28	8.47	9.49	11.42	13.89	13.99	15.09	16.18	15.94	15.7	14.66	16.3	17.4	17.98	18.37	18.76	19.15	
155.8-21	6.37	4.52	0.67	1.37	0.07	0.23	0.96	0.7	0.43	0.6	0.5	0.53	0.33	0.12	0.09	0.27	5.13	8.12	8.1	8.09	9.7	11.31	12.92	13.97	15.03	16.08	15.72	15.36	15	15.84	16.68	17.51	18.06	18.61	19.15		
160.8-21	6.5	4.78	3.06	1.71	0.35	1	0.86	0.71	0.57	0.36	0.63	0.66	0.52	0.39	0.25	0.57	5.39	8.22	8.03	7.88	7.71	9.44	11.18	12.91	13.93	14.95	15.98	15.5	15.02	14.54	15.38	16.21	17.05	17.75	18.45	19.15	
165.8-21	6.62	5.04	3.45	2.04	0.62	0.78	1.75	2.72	3.7	0.23	0.75	1.75	0.77	0.66	0.6	2.24	5.09	7.93																			

Raw Data (ANT2@5G 4900MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
Phi Angle (°)	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
0.0	0.25	1.8	12.65	12.86	12.35	11.93	11.58	11.17	10.78	10.39	10.03	9.68	9.34	9.01	8.69	8.38	8.07	7.77	7.48	7.2	6.93	6.67	6.42	6.18	5.94	5.71	5.49	5.28	5.07	4.87	4.68	4.49	4.31	4.13	3.96	3.79	3.63	3.47	3.32	3.17	3.02	2.87	2.73	2.59	2.46	2.33	2.2	2.08	1.96	1.84	1.73	1.62	1.51	1.41	1.31	1.21	1.11	1.01	0.92	0.83	0.74	0.65	0.56	0.47	0.39	0.31	0.23	0.15	0.08	0.01	0.05	0.19	0.34	0.49	0.64	0.79	0.94	1.09	1.24	1.39	1.54	1.69	1.84	1.99	2.14	2.29	2.44	2.59	2.74	2.89	3.04	3.19	3.34	3.49	3.64	3.79	3.94	4.09	4.24	4.39	4.54	4.69	4.84	4.99	5.14	5.29	5.44	5.59	5.74	5.89	6.04	6.19	6.34	6.49	6.64	6.79	6.94	7.09	7.24	7.39	7.54	7.69	7.84	7.99	8.14	8.29	8.44	8.59	8.74	8.89	9.04	9.19	9.34	9.49	9.64	9.79	9.94	10.09	10.24	10.39	10.54	10.69	10.84	10.99	11.14	11.29	11.44	11.59	11.74	11.89	12.04	12.19	12.34	12.49	12.64	12.79	12.94	13.09	13.24	13.39	13.54	13.69	13.84	13.99	14.14	14.29	14.44	14.59	14.74	14.89	15.04	15.19	15.34	15.49	15.64	15.79	15.94	16.09	16.24	16.39	16.54	16.69	16.84	16.99	17.14	17.29	17.44	17.59	17.74	17.89	18.04	18.19	18.34	18.49	18.64	18.79	18.94	19.09	19.24	19.39	19.54	19.69	19.84	19.99	20.14	20.29	20.44	20.59	20.74	20.89	21.04	21.19	21.34	21.49	21.64	21.79	21.94	22.09	22.24	22.39	22.54	22.69	22.84	22.99	23.14	23.29	23.44	23.59	23.74	23.89	24.04	24.19	24.34	24.49	24.64	24.79	24.94	25.09	25.24	25.39	25.54	25.69	25.84	25.99	26.14	26.29	26.44	26.59	26.74	26.89	27.04	27.19	27.34	27.49	27.64	27.79	27.94	28.09	28.24	28.39	28.54	28.69	28.84	28.99	29.14	29.29	29.44	29.59	29.74	29.89	30.04	30.19	30.34	30.49	30.64	30.79	30.94	31.09	31.24	31.39	31.54	31.69	31.84	31.99	32.14	32.29	32.44	32.59	32.74	32.89	33.04	33.19	33.34	33.49	33.64	33.79	33.94	34.09	34.24	34.39	34.54	34.69	34.84	34.99	35.14	35.29	35.44	35.59	35.74	35.89	36.04	36.19	36.34	36.49	36.64	36.79	36.94	37.09	37.24	37.39	37.54	37.69	37.84	37.99	38.14	38.29	38.44	38.59	38.74	38.89	39.04	39.19	39.34	39.49	39.64	39.79	39.94	40.09	40.24	40.39	40.54	40.69	40.84	40.99	41.14	41.29	41.44	41.59	41.74	41.89	42.04	42.19	42.34	42.49	42.64	42.79	42.94	43.09	43.24	43.39	43.54	43.69	43.84	43.99	44.14	44.29	44.44	44.59	44.74	44.89	45.04	45.19	45.34	45.49	45.64	45.79	45.94	46.09	46.24	46.39	46.54	46.69	46.84	46.99	47.14	47.29	47.44	47.59	47.74	47.89	48.04	48.19	48.34	48.49	48.64	48.79	48.94	49.09	49.24	49.39	49.54	49.69	49.84	49.99	50.14	50.29	50.44	50.59	50.74	50.89	51.04	51.19	51.34	51.49	51.64	51.79	51.94	52.09	52.24	52.39	52.54	52.69	52.84	52.99	53.14	53.29	53.44	53.59	53.74	53.89	54.04	54.19	54.34	54.49	54.64	54.79	54.94	55.09	55.24	55.39	55.54	55.69	55.84	55.99	56.14	56.29	56.44	56.59	56.74	56.89	57.04	57.19	57.34	57.49	57.64	57.79	57.94	58.09	58.24	58.39	58.54	58.69	58.84	58.99	59.14	59.29	59.44	59.59	59.74	59.89	60.04	60.19	60.34	60.49	60.64	60.79	60.94	61.09	61.24	61.39	61.54	61.69	61.84	61.99	62.14	62.29	62.44	62.59	62.74	62.89	63.04	63.19	63.34	63.49	63.64	63.79	63.94	64.09	64.24	64.39	64.54	64.69	64.84	64.99	65.14	65.29	65.44	65.59	65.74	65.89	66.04	66.19	66.34	66.49	66.64	66.79	66.94	67.09	67.24	67.39	67.54	67.69	67.84	67.99	68.14	68.29	68.44	68.59	68.74	68.89	69.04	69.19	69.34	69.49	69.64	69.79	69.94	70.09	70.24	70.39	70.54	70.69	70.84	70.99	71.14	71.29	71.44	71.59	71.74	71.89	72.04	72.19	72.34	72.49	72.64	72.79	72.94	73.09	73.24	73.39	73.54	73.69	73.84	73.99	74.14	74.29	74.44	74.59	74.74	74.89	75.04	75.19	75.34	75.49	75.64	75.79	75.94	76.09	76.24	76.39	76.54	76.69	76.84	76.99	77.14	77.29	77.44	77.59	77.74	77.89	78.04	78.19	78.34	78.49	78.64	78.79	78.94	79.09	79.24	79.39	79.54	79.69	79.84	79.99	80.14	80.29	80.44	80.59	80.74	80.89	81.04	81.19	81.34	81.49	81.64	81.79	81.94	82.09	82.24	82.39	82.54	82.69	82.84	82.99	83.14	83.29	83.44	83.59	83.74	83.89	84.04	84.19	84.34	84.49	84.64	84.79	84.94	85.09	85.24	85.39	85.54	85.69	85.84	85.99	86.14	86.29	86.44	86.59	86.74	86.89	87.04	87.19	87.34	87.49	87.64	87.79	87.94	88.09	88.24	88.39	88.54	88.69	88.84	88.99	89.14	89.29	89.44	89.59	89.74	89.89	90.04	90.19	90.34	90.49	90.64	90.79	90.94	91.09	91.24	91.39	91.54	91.69	91.84	91.99	92.14	92.29	92.44	92.59	92.74	92.89	93.04	93.19	93.34	93.49	93.64	93.79	93.94	94.09	94.24	94.39	94.54	94.69	94.84	94.99	95.14	95.29	95.44	95.59	95.74	95.89	96.04	96.19	96.34	96.49	96.64	96.79	96.94	97.09	97.24	97.39	97.54	97.69	97.84	97.99	98.14	98.29	98.44	98.59	98.74	98.89	99.04	99.19	99.34	99.49	99.64	99.79	99.94	100.09	100.24	100.39	100.54	100.69	100.84	100.99	101.14	101.29	101.44	101.59	101.74	101.89	102.04	102.19	102.34	102.49	102.64	102.79	102.94	103.09	103.24	103.39	103.54	103.69	103.84	103.99	104.14	104.29	104.44	104.59	104.74	104.89	105.04	105.19	105.34	105.49	105.64	105.79	105.94	106.09	106.24	106.39	106.54	106.69	106.84	106.99	107.14	107.29	107.44	107.59	107.74	107.89	108.04	108.19	108.34	108.49	108.64	108.79	108.94	109.09	109.24	109.39	109.54	109.69	109.84	109.99	110.14	110.29	110.44	110.59	110.74	110.89	111.04	111.19	111.34	111.49	111.64	111.79	111.94	112.09	112.24	112.39	112.54	112.69	112.84	112.99	113.14	113.29	113.44	113.59	113.74	113.89	114.04	114.19	114.34	114.49	114.64	114.79	114.94	115.09	115.24	115.39	115.54	115.69	115.84	115.99	116.14	116.29	116.44	116.59	116.74	116.89	117.04	117.19	117.34	117.49	117.64	117.79	117.94	118.09	118.24	118.39	118.54	118.69	118.84	118.99	119.14	119.29	119.44	119.59	119.74	119.89	120.04	120.19	120.34	120.49	120.64	120.79	120.94	121.09	121.24	121.39	121.54	121.69	121.84	121.99	122.14	122.29	122.44	122.59	122.74	122.89	123.04	123.19	123.34	123.49	123.64	123.79	123.94	124.09	124.24	124.39	124.54	124.69	124.84	124.99	125.14	125.29	125.44	125.59	125.74	125.89	126.04	126.19	126.34	126.49	126.64	126.79	126.94	127.09	127.24	127.39	127.54	127.69	127.84	127.99	128.14	128.29	128.44	128.59	128.74	128.89	129.04	129.19	129.34	129.49	129.64	129.79	129.94	130.09	130.24	130.39	130.54	130.69	130.84	130.99	131.14	131.29	131.44	131.59	131.74	131.89	132.04	132.19	132.34	132.49	132.64	132.79	132.94	133.09	133.24	133.39	133.54	133.69	133.84	133.99	134.14	134.29	134.44	134.59	134.74	134.89	135.04	135.19	135.34	135.49	135.64	135.79	135.94	136.09	136.24	136.39	136.54	136.69	136.84	136.99	137.14	137.29	137.44	137.59	137.74	137.89	138.04	138.19	138.34	138.49	138.64	138.79	138.94	139.09	139.24	139.39	139.54	139.69	139.84	139.99	140.14	140.29	140.44	140.59	140.74	140.89	141.04	141.19	141.34	141.49	141.64	141.79	141.94	142.09	142.24	142.39	142.54	142.69	142.84	142.99	143.14	143.29	143.44	143.59	143.74	143.89	144.04	144.19	144.34	144.49	144.64	144.79	144.94	145.09	145.24	145.39	145.54	145.69	145.84	145.99	146.14	146.29	146.44	146.59</

Raw Data (ANT2@5G 5500MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0.0/0.4	0.92	1.81	12.7	1.5	1.31	1.04	0.77	0.5	1.76	0.17	1.29	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	
5.0/0.4	0.76	1.49	2.21	2.75	3.28	3.81	2.43	1.05	0.33	0.76	1.19	1.62	1.01	0.4	0.21	0.84	1.46	2.08	3.35	4.61	5.87	7.94	10.01	12.09	11.57	11.05	10.53	10.53	10.54	10.54	11.24	11.24	11.93	12.63	13.6	14.58	15.55
10.0/0.4	0.6	1.16	1.73	2.59	3.45	4.31	2.82	1.33	0.36	0.76	1.36	1.95	1.19	0.42	0.34	0.85	1.35	1.85	3.16	4.47	5.78	7.39	9.41	11.22	11.22	11.21	11.21	11.05	10.88	10.74	11.24	11.76	12.29	13.38	14.47	15.55	
15.0/0.4	0.44	0.84	1.24	2.43	3.62	4.8	3.2	1.61	0.01	0.76	1.52	2.29	1.37	0.45	0.47	0.85	1.24	1.62	2.98	4.34	5.7	7.25	8.8	10.35	10.87	11.38	11.9	11.56	11.22	10.88	11.24	11.6	11.96	13.15	14.35	15.55	
20.0/0.4	0.27	0.51	0.75	2.16	3.57	4.98	3.38	1.78	0.17	0.75	1.68	2.61	1.54	0.47	0.6	0.86	1.12	1.38	2.79	4.2	5.61	6.9	8.19	9.48	10.52	11.55	12.58	12.07	11.56	11.02	10.68	11.24	11.43	11.62	12.93	14.24	15.55
25.0/0.4	0.12	0.2	0.29	1.65	3.02	4.39	3.04	1.69	0.14	0.67	1.68	2.69	1.55	0.41	0.73	0.87	1.01	1.15	2.61	4.07	5.53	6.96	8.39	8.62	10.17	11.72	13.27	12.51	11.75	10.9	11.09	11.19	11.29	12.71	14.13	15.55	
30.0/0.4	0.17	0.3	0.43	1.55	2.67	3.79	2.66	1.54	0.41	0.65	1.71	2.77	1.56	0.35	0.86	0.94	1.01	1.09	2.54	3.99	5.44	6.37	7.29	8.22	9.86	11.5	13.14	12.37	11.6	10.84	11.1	11.37	11.64	12.94	14.25	15.55	
35.0/0.4	0.21	0.39	0.57	1.44	2.31	3.19	2.28	1.38	0.47	0.63	1.74	2.85	1.62	0.4	0.83	1.04	1.25	1.47	2.78	4.09	5.41	6.38	7.36	8.34	9.87	11.41	12.94	12.19	11.43	10.67	11.12	11.57	12.02	13.2	14.38	15.55	
40.0/0.4	0.26	0.48	0.71	1.33	1.96	2.59	1.9	1.22	0.53	0.62	1.77	2.93	1.72	0.51	0.7	1.08	1.46	1.85	3.04	4.24	5.43	6.44	7.44	8.45	9.89	11.32	12.75	13	11.26	10.51	11.14	11.77	12.4	13.45	14.5	15.55	
45.0/0.4	0.31	0.58	0.85	1.23	1.61	1.99	1.52	1.06	0.6	0.61	1.81	3.01	1.82	0.63	0.56	1.12	1.67	2.23	3.3	4.38	5.45	6.49	7.53	8.57	9.9	11.23	12.55	11.82	11.08	10.14	11.16	11.97	12.78	13.71	14.63	15.55	
50.0/0.4	0.35	0.67	0.99	1.12	1.26	1.39	1.15	0.9	0.66	0.59	1.84	3.09	1.92	0.74	0.43	1.16	1.88	2.61	3.56	4.52	5.47	6.54	7.61	8.68	9.91	11.13	12.36	11.63	10.91	10.18	11.17	12.17	13.16	13.96	14.76	15.55	
55.0/0.4	0.4	0.76	1.13	1.01	0.9	0.79	0.77	0.74	0.72	0.58	1.87	3.17	2.02	0.86	0.3	1.2	2.09	2.99	3.83	4.66	5.49	6.39	7.2	8.8	9.92	11.04	12.16	11.45	10.73	10.02	11.19	12.37	13.54	14.21	14.88	15.55	
60.0/0.4	0.45	0.86	1.27	0.91	0.55	0.19	0.39	0.58	0.78	0.56	1.91	3.25	2.11	1.1	0.38	0.16	1.23	2.3	3.38	4.29	4.8	5.51	6.65	7.78	8.92	9.95	10.95	11.97	11.26	10.56	9.85	11.21	12.57	13.92	14.47	15.01	15.55
65.0/0.4	0.49	0.95	1.4	0.8	0.2	0.41	0.01	0.43	0.84	0.55	1.94	3.33	2.21	1.09	0.03	0.17	2.51	3.76	4.35	4.94	5.53	6.7	7.87	9.03	9.95	10.86	11.77	11.08	10.38	9.69	11.23	12.77	14.31	14.72	15.14	15.55	
70.0/0.4	0.54	1.04	1.54	0.69	0.16	0.1	0.37	0.27	0.9	0.54	1.97	3.41	2.31	1.21	0.1	0.31	2.72	4.14	4.65	5.08	5.55	6.75	7.95	9.15	9.96	10.77	11.58	10.89	10.21	9.53	11.25	12.97	14.69	14.98	15.26	15.55	
75.0/0.4	0.59	1.13	1.68	0.59	0.51	0.1	0.75	0.11	0.96	0.52	2.01	3.49	2.41	1.32	0.24	0.35	2.93	4.32	4.87	5.22	5.58	6.81	8.03	9.26	9.97	10.67	11.38	10.71	10.03	9.36	11.26	13.17	15.07	15.23	15.59	15.55	
80.0/0.4	0.63	1.23	1.82	0.77	0.29	0.35	0.56	0.23	1.03	0.48	1.98	3.48	2.44	1.41	0.37	0.39	3.14	4.49	4.93	5.33	5.7	6.96	8.12	9.38	9.98	10.58	11.18	10.52	9.86	9.2	11.28	13.37	15.45	15.48	15.52	15.55	
85.0/0.4	0.68	1.32	1.96	1.04	0.13	0.79	0.17	0.46	1.09	0.3	1.7	3.09	2.23	1.37	0.51	0.42	3.35	5.28	5.4	5.51	5.69	6.91	8.2	9.5	9.99	10.49	10.99	10.34	9.69	9.03	11.3	13.56	15.83	15.74	16.05	15.55	
90.0/0.4	0.73	1.42	2.11	1.33	0.55	0.24	0.22	0.68	1.14	0.14	1.41	2.69	2.01	1.32	0.64	0.46	3.56	5.67	5.66	5.65	5.64	6.96	8.29	9.61	10.01	10.4	10.79	10.16	9.53	8.9	11.34	13.78	16.21	15.99	15.77	15.55	
95.0/0.4	0.8	1.57	2.34	1.67	0.99	0.32	0.6	0.88	1.16	0.01	1.15	2.3	1.79	1.28	0.77	0.5	3.77	6.05	5.92	5.79	5.66	7.01	8.37	9.72	10.01	10.31	10.66	9.51	8.97	11.25	13.53	15.8	15.72	15.64	15.55		
100.0/0.4	0.88	1.72	2.57	2	1.44	0.88	0.98	0.88	1.17	0.15	1.88	2.91	1.57	1.24	0.91	0.42	3.75	6.08	5.95	5.81	5.68	7.03	8.39	9.74	9.96	10.18	10.4	9.95	9.4	11.44	13.2	15.31	15.4	15.48	15.55		
105.0/0.4	0.96	1.88	2.8	2.34	1.89	1.43	1.35	1.27	1.19	0.29	1.61	3.1	1.7	1.13	0.93	0.35	3.64	5.92	5.85	5.78	5.71	7.06	8.41	9.76	9.91	10.06	10.21	9.84	9.48	9.11	11.02	12.93	14.84	15.08	15.32	15.55	
110.0/0.4	1.03	2.03	3.02	2.68	2.33	1.99	1.73	1.47	1.21	0.43	1.33	1.12	1.03	0.94	0.85	1.35	3.56	5.76	5.78	5.79	5.8	7.13	8.45	9.78	9.93	10.08	10.23	0.88	0.53	9.19	10.91	12.64	14.36	14.76	15.16	15.55	
115.0/0.4	1.11	2.18	3.25	3.02	2.78	2.55	2.1	1.66	1.22	0.57	0.88	0.73	0.74	0.75	0.76	1.36	3.48	5.61	5.57	5.79	5.89	7.19	8.49	9.8	9.96	10.11	10.27	0.93	0.6	9.26	10.68	12.34	13.89	14.44	15	15.55	
120.0/0.4	1.18	2.33	3.48	3.35	3.23	3.1	2.48	1.86	1.24	0.71	0.19	0.33	0.45	0.57	0.68	1.36	3.41	5.45	5.62	5.8	5.97	7.25	8.53	9.81	9.98	10.15	10.32	0.99	0.66	9.33	10.69	12.05	13.41	14.12	14.84	15.55	
125.0/0.4	1.26	2.48	3.73	3.69	3.67	3.66	2.86	2.06	1.35	0.86	0.46	0.06	0.16	0.38	0.46	1.37	3.33	5.29	5.55	5.8	6.06	7.32	8.57	9.83	10.09	10.26	10.44	0.72	0.4	9.57	10.87	11.75	12.93	13.8	14.68	15.55	
130.0/0.4	1.34	2.64	3.93	4.03	4.12	4.21	3.23	2.25	1.27	0.9	0.72	0.45	0.13	0.19	0.31	1.37	3.25	5.13	5.47	5.81	6.14	7.38	8.62	9.85	10.04	10.27	10.41	10.1	9.78	9.47	10.46	11.45	12.45	13.48	14.52	15.55	
135.0/0.4	1.41	2.79	4.16	4.37	4.57	4.77	3.61	2.45	1.29	1.14	0.99	0.84	0.42	0.4	0.43	1.37	3.18	4.98	5.39	5.81	6.23	7.44	8.66	9.87	10.06	10.26	10.46	10.15	9.84	9.54	10.35	11.16	11.97	13.16	14.36	15.55	
140.0/0.4	1.49	2.94	4.39	4.7	5.02	5.33	3.99	2.64	1.33	1.28	1.26	1.24	0.71	0.18	0.34	1.38	3.1	4.82	5.32	5.82	6.32	7.51	8.7	9.89	10.09	10.3	10.5	10.2	9.91	9.61	10.24	10.86	11.49	12.84	14.2	15.55	
145.0/0.4	1.56	3.09	4.62	5.04	5.46	5.88	4.36	2.84	1.32	1.42	1.53	1.63	1.1	0.37	0.26	1.38	3.02	4.66	5.24	5.82	6.4	7.57	8.74	9.91	10.12	10.33	10.55	10.26	9.97	9.68	10.12	10.57	11.01	12.53	14.04	15.55	
150.0/0.4	1.64	3.24	4.84	5.38	5.91	6.44	4.74	3.04	1.33	1.56	1.79	2.02	1.29	0.56	0.47	1.39	2.95	4.5	5.17	5.83	6.49	7.63	8.78	9.93	10.15	10.37	10.59	10.31	10.03	9.75	10.01	10.27	10.53	12.21	13.88	15.55	
155.0/0.4	1.71	3.39	5.07	5.71	6.36	7.07	5.11	3.23	1.35	1.71	2.06	2.42	1.58	0.75	0.69	1.37	2.87	4.33	5.09	5.83	6.58	7.7	8.82	9.94	10.17	10.41	10.64	10.37	10.09	9.82	9.98	10.05	11.89	13.72	15.55		
160.0/0.4	1.79	3.55	5.3	5.81	6.32	6.83	5.01	3.19	1.36	1.85	2.33	2.81	1.87	0.93	0.7	1.39	2.79	4.19	5.01	5.84	6.66	7.76	8.88	9.96	10.2	10.44	10.68	10.42	10.16	9.89	9.79	9.68	9.57	11.57	15.56	15.55	
165.0/0.4	1.87	3.7	5.53	5.88	6.22	6.57	4.84	3.11	1.38	1.72	2.06	2.41	1.63	0.86	0.08	1.4	2.72	4.03	4.94	5.84	6.75	7.82	8.9	9.													

Raw Data (ANT2@5G 5900MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0.14	1.29	1.18	1.07	1.00	0.90	0.80	0.72	0.65	0.58	0.52	0.45	0.39	0.33	0.27	0.21	0.15	0.10	0.05	0.00	-0.05	-0.10	-0.15	-0.20	-0.25	-0.30	-0.35	-0.40	-0.45	-0.50	-0.55	-0.60	-0.65	-0.70	-0.75	-0.80	-0.85	
5.14	1.34	1.28	1.23	1.15	1.07	0.99	0.92	0.85	0.78	0.72	0.65	0.59	0.53	0.47	0.41	0.35	0.29	0.23	0.17	0.11	0.05	0.00	-0.05	-0.10	-0.15	-0.20	-0.25	-0.30	-0.35	-0.40	-0.45	-0.50	-0.55	-0.60	-0.65	-0.70	
10.14	1.39	1.39	1.38	1.32	1.26	1.20	1.14	1.08	1.02	0.96	0.90	0.84	0.78	0.72	0.66	0.60	0.54	0.48	0.42	0.36	0.30	0.24	0.18	0.12	0.06	0.00	-0.06	-0.12	-0.18	-0.24	-0.30	-0.36	-0.42	-0.48	-0.54	-0.60	
15.14	1.45	1.49	1.54	1.53	1.50	1.46	1.42	1.38	1.34	1.30	1.26	1.22	1.18	1.14	1.10	1.06	1.02	0.98	0.94	0.90	0.86	0.82	0.78	0.74	0.70	0.66	0.62	0.58	0.54	0.50	0.46	0.42	0.38	0.34	0.30		
20.14	1.5	1.6	1.69	1.73	1.76	1.79	1.82	1.85	1.88	1.91	1.94	1.97	2.00	2.03	2.06	2.09	2.12	2.15	2.18	2.21	2.24	2.27	2.30	2.33	2.36	2.39	2.42	2.45	2.48	2.51	2.54	2.57	2.60	2.63	2.66	2.69	
25.14	1.55	1.7	1.85	1.96	2.07	2.18	2.29	2.40	2.51	2.62	2.73	2.84	2.95	3.06	3.17	3.28	3.39	3.50	3.61	3.72	3.83	3.94	4.05	4.16	4.27	4.38	4.49	4.60	4.71	4.82	4.93	5.04	5.15	5.26	5.37	5.48	
30.14	1.61	1.81	2.02	2.21	2.39	2.57	2.75	2.93	3.11	3.29	3.47	3.65	3.83	4.01	4.19	4.37	4.55	4.73	4.91	5.09	5.27	5.45	5.63	5.81	5.99	6.17	6.35	6.53	6.71	6.89	7.07	7.25	7.43	7.61	7.79		
35.14	1.66	1.93	2.19	2.45	2.71	2.97	3.23	3.49	3.75	4.01	4.27	4.53	4.79	5.05	5.31	5.57	5.83	6.09	6.35	6.61	6.87	7.13	7.39	7.65	7.91	8.17	8.43	8.69	8.95	9.21	9.47	9.73	9.99	10.25			
40.14	1.72	2.04	2.36	2.69	3.02	3.35	3.68	4.01	4.34	4.67	5.00	5.33	5.66	5.99	6.32	6.65	6.98	7.31	7.64	7.97	8.30	8.63	8.96	9.29	9.62	9.95	10.28	10.61	10.94	11.27	11.60	11.93	12.26	12.59			
45.14	1.78	2.15	2.53	3.03	3.53	4.03	4.53	5.03	5.53	6.03	6.53	7.03	7.53	8.03	8.53	9.03	9.53	10.03	10.53	11.03	11.53	12.03	12.53	13.03	13.53	14.03	14.53	15.03	15.53	16.03	16.53	17.03	17.53	18.03			
50.14	1.83	2.27	2.7	3.28	3.75	4.22	4.69	5.16	5.63	6.10	6.57	7.04	7.51	7.98	8.45	8.92	9.39	9.86	10.33	10.80	11.27	11.74	12.21	12.68	13.15	13.62	14.09	14.56	15.03	15.50	15.97	16.44	16.91	17.38			
55.14	1.89	2.38	2.87	3.32	3.77	4.22	4.67	5.12	5.57	6.02	6.47	6.92	7.37	7.82	8.27	8.72	9.17	9.62	10.07	10.52	10.97	11.42	11.87	12.32	12.77	13.22	13.67	14.12	14.57	15.02	15.47	15.92	16.37	16.82			
60.14	1.95	2.49	3.04	3.48	3.92	4.36	4.80	5.24	5.68	6.12	6.56	7.00	7.44	7.88	8.32	8.76	9.20	9.64	10.08	10.52	10.96	11.40	11.84	12.28	12.72	13.16	13.60	14.04	14.48	14.92	15.36	15.80	16.24	16.68			
65.14	2	2.61	3.21	3.65	4.09	4.53	4.97	5.41	5.85	6.29	6.73	7.17	7.61	8.05	8.49	8.93	9.37	9.81	10.25	10.69	11.13	11.57	12.01	12.45	12.89	13.33	13.77	14.21	14.65	15.09	15.53	15.97	16.41	16.85			
70.14	2.06	2.72	3.38	3.82	4.26	4.70	5.14	5.58	6.02	6.46	6.90	7.34	7.78	8.22	8.66	9.10	9.54	9.98	10.42	10.86	11.30	11.74	12.18	12.62	13.06	13.50	13.94	14.38	14.82	15.26	15.70	16.14	16.58	17.02			
75.14	2.12	2.83	3.55	4.09	4.53	4.97	5.41	5.85	6.29	6.73	7.17	7.61	8.05	8.49	8.93	9.37	9.81	10.25	10.69	11.13	11.57	12.01	12.45	12.89	13.33	13.77	14.21	14.65	15.09	15.53	15.97	16.41	16.85	17.29			
80.14	2.17	2.95	3.72	4.26	4.70	5.14	5.58	6.02	6.46	6.90	7.34	7.78	8.22	8.66	9.10	9.54	9.98	10.42	10.86	11.30	11.74	12.18	12.62	13.06	13.50	13.94	14.38	14.82	15.26	15.70	16.14	16.58	17.02	17.46			
85.14	2.23	3.06	3.89	4.43	4.87	5.31	5.75	6.19	6.63	7.07	7.51	7.95	8.39	8.83	9.27	9.71	10.15	10.59	11.03	11.47	11.91	12.35	12.79	13.23	13.67	14.11	14.55	14.99	15.43	15.87	16.31	16.75	17.19	17.63			
90.14	2.27	3.15	4.03	4.57	5.01	5.45	5.89	6.33	6.77	7.21	7.65	8.09	8.53	8.97	9.41	9.85	10.29	10.73	11.17	11.61	12.05	12.49	12.93	13.37	13.81	14.25	14.69	15.13	15.57	16.01	16.45	16.89	17.33	17.77			
95.14	2.33	3.25	4.17	4.71	5.15	5.59	6.03	6.47	6.91	7.35	7.79	8.23	8.67	9.11	9.55	9.99	10.43	10.87	11.31	11.75	12.19	12.63	13.07	13.51	13.95	14.39	14.83	15.27	15.71	16.15	16.59	17.03	17.47	17.91			
100.14	2.39	3.35	4.31	4.85	5.29	5.73	6.17	6.61	7.05	7.49	7.93	8.37	8.81	9.25	9.69	10.13	10.57	11.01	11.45	11.89	12.33	12.77	13.21	13.65	14.09	14.53	14.97	15.41	15.85	16.29	16.73	17.17	17.61	18.05			
105.14	2.45	3.45	4.45	4.99	5.43	5.87	6.31	6.75	7.19	7.63	8.07	8.51	8.95	9.39	9.83	10.27	10.71	11.15	11.59	12.03	12.47	12.91	13.35	13.79	14.23	14.67	15.11	15.55	15.99	16.43	16.87	17.31	17.75	18.19			
110.14	2.51	3.55	4.55	5.09	5.53	5.97	6.41	6.85	7.29	7.73	8.17	8.61	9.05	9.49	9.93	10.37	10.81	11.25	11.69	12.13	12.57	13.01	13.45	13.89	14.33	14.77	15.21	15.65	16.09	16.53	16.97	17.41	17.85	18.29			
115.14	2.56	3.65	4.65	5.19	5.63	6.07	6.51	6.95	7.39	7.83	8.27	8.71	9.15	9.59	10.03	10.47	10.91	11.35	11.79	12.23	12.67	13.11	13.55	13.99	14.43	14.87	15.31	15.75	16.19	16.63	17.07	17.51	17.95	18.39			
120.14	2.62	3.75	4.75	5.29	5.73	6.17	6.61	7.05	7.49	7.93	8.37	8.81	9.25	9.69	10.13	10.57	11.01	11.45	11.89	12.33	12.77	13.21	13.65	14.09	14.53	14.97	15.41	15.85	16.29	16.73	17.17	17.61	18.05	18.49			
125.14	2.67	3.85	4.85	5.39	5.83	6.27	6.71	7.15	7.59	8.03	8.47	8.91	9.35	9.79	10.23	10.67	11.11	11.55	11.99	12.43	12.87	13.31	13.75	14.19	14.63	15.07	15.51	15.95	16.39	16.83	17.27	17.71	18.15	18.59			
130.14	2.73	3.95	4.95	5.49	5.93	6.37	6.81	7.25	7.69	8.13	8.57	9.01	9.45	9.89	10.33	10.77	11.21	11.65	12.09	12.53	12.97	13.41	13.85	14.29	14.73	15.17	15.61	16.05	16.49	16.93	17.37	17.81	18.25	18.69			
135.14	2.78	4.05	5.05	5.59	6.03	6.47	6.91	7.35	7.79	8.23	8.67	9.11	9.55	9.99	10.43	10.87	11.31	11.75	12.19	12.63	13.07	13.51	13.95	14.39	14.83	15.27	15.71	16.15	16.59	17.03	17.47	17.91	18.35	18.79			
140.14	2.84	4.15	5.15	5.69	6.13	6.57	7.01	7.45	7.89	8.33	8.77	9.21	9.65	10.09	10.53	10.97	11.41	11.85	12.29	12.73	13.17	13.61	14.05	14.49	14.93	15.37	15.81	16.25	16.69	17.13	17.57	18.01	18.45	18.89			
145.14	2.89	4.25	5.25	5.79	6.23	6.67	7.11	7.55	7.99	8.43	8.87	9.31	9.75	10.19	10.63	11.07	11.51	11.95	12.39	12.83	13.27	13.71	14.15	14.59	15.03	15.47	15.91	16.35	16.79	17.23	17.67	18.11	18.55	18.99			
150.14	2.95	4.35	5.35	5.89	6.33	6.77	7.21	7.65	8.09	8.53	8.97	9.41	9.85	10.29	10.73	11.17	11.61	12.05	12.49	12.93	13.37	13.81	14.25	14.69	15.13	15.57	16.01	16.45	16.89	17.33	17.77	18.21	18.65	19.09			
155.14	3.01	4.45	5.45	5.99	6.43	6.87	7.31	7.75	8.19	8.63	9.07	9.51	9.95	10.39	10.83	11.27	11.71	12.15	12.59	13.03	13.47	13.91	14.35	14.79	15.23	15.67	16.11	16.55	16.99	17.43	17.87	18.31	18.75	19.19			
160.14	3.06	4.55	5.55	6.09	6.53	6.97	7.41	7.85	8.29	8.73	9.17	9.61	10.05	10.49	10.93	11.37	11.81	12.25	12.69	13.13	13.57	14.01	14.45	14.89	15.33	15.77	16.21	16.65	17.09	17.53	17.97	18.41	18.85	19.29			
165.14	3.12	4.65	5.65	6.19	6.63	7.07	7.51	7.95	8.39	8.83	9.27	9.71	10.15	10.59	11.03	11.47	11.91	12.35	12.79	13.23	13.67	14.11	14.55	14.99	15.43	15.87	16.31	16.75	17.19	17.63	18.07	18.51	18.95	19.39			
170.14	3.17	4.75	5.75	6.29	6.73	7.17	7.61	8.05	8.49	8.93	9.37	9.81	10.25	10.69	11.13	11.57	12.01	12.45	12.89	13.33	13.77	14.21	14.65	15.09													

Raw Data (ANT3@5G 4900MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	
90.82	0.43	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13	0.13		
90.82	0.57	0.33	0.09	0.63	1.18	1.73	1.58	1.43	1.28	1.54	1.8	2.05	1.73	1.41	1.09	0.31	0.48	1.27	1.42	1.56	1.71	1.67	1.53	1.48	1.39	1.28	1.17	1.03	0.94	0.91	1.01	1.162	1.307	1.452	1.329	1.206	1.082	
100.82	0.71	0.61	0.51	0.97	1.43	1.89	1.84	1.79	1.74	2.06	1.38	2.7	2.25	1.79	1.34	0.29	0.77	1.83	1.4	1.67	1.84	1.63	1.51	1.41	1.34	1.24	1.13	1.03	0.94	0.88	1.051	1.17	1.38	1.247	1.164	1.082		
150.82	1.85	1.89	0.93	1.3	1.67	2.04	2.09	2.14	2.19	2.57	2.06	3.34	3.76	3.17	1.89	0.26	1.06	2.39	4.58	6.78	8.97	7.08	5.19	3.1	6.08	8.87	11.65	10.71	9.76	8.82	9.9	10.97	12.05	11.64	11.23	10.82		
200.82	1.18	1.36	1.64	1.92	2.2	2.35	2.49	2.64	2.92	3.41	3.8	4.14	2.49	1.84	1.24	1.35	2.95	5.16	7.38	9.6	7.23	4.87	2.51	5.93	9.36	12.79	11.24	9.69	8.15	9.04	9.93	10.82	10.82	10.82	10.82			
250.82	1.14	1.46	1.78	2.02	2.21	2.51	2.8	2.9	3.29	3.48	3.68	3.15	2.61	2.08	1.72	1.64	1.5	3.73	7.99	10.23	7.69	5.15	2.61	6.38	10.15	11.93	11.71	9.62	7.47	8.17	8.88	9.58	10.2	10.41	10.82			
300.82	1.28	1.74	2.1	2.19	2.17	2.15	2.42	2.7	2.97	3.17	3.36	3.56	3.1	2.43	1.86	1.03	1.92	3.82	6.16	8.51	10.86	8.15	5.45	2.75	6.58	10.41	14.25	11.84	9.42	7.01	7.46	7.9	8.35	9.17	10	10.82		
350.82	1.28	1.75	2.21	2.17	2.13	2.09	2.3	2.5	2.71	2.95	3.2	3.44	3.83	3.22	2.61	1.16	1.93	3.7	6.01	8.33	10.65	8.06	5.47	2.89	6.76	10.63	14.51	11.99	9.47	6.95	7.3	7.64	7.99	8.93	9.88	10.82		
400.82	1.23	1.64	2.05	2.04	2.04	2.03	2.17	2.31	2.45	2.74	3.04	3.33	3.67	3.02	2.37	0.28	1.93	3.58	5.75	7.93	10.11	7.75	5.39	3.03	6.94	10.86	14.77	12.14	9.52	6.89	7.25	7.61	7.97	8.92	9.87	10.82		
450.82	1.17	1.53	1.88	2.01	1.94	1.97	2.05	2.12	2.2	2.53	2.87	3.21	3.51	2.82	2.12	0.41	1.93	3.45	5.49	7.51	9.57	7.44	5.3	3.17	7.12	11.08	15.03	12.3	9.56	6.83	7.2	7.58	7.95	8.91	9.87	10.82		
500.82	1.12	1.42	1.72	1.78	1.85	1.91	1.92	1.93	1.94	2.12	2.71	3.09	3.35	2.61	1.87	0.53	1.93	3.33	5.23	7.13	9.03	7.12	5.21	3.11	7.3	11.3	15.29	12.45	9.61	6.77	7.16	7.55	7.93	8.9	9.86	10.82		
550.82	1.06	1.31	1.55	1.65	1.75	1.85	1.79	1.74	1.68	2.11	2.54	2.98	3.19	2.41	1.62	0.66	1.93	3.21	4.97	6.73	8.5	6.81	5.13	3.45	4.28	11.52	15.55	12.6	9.66	6.71	7.11	7.51	7.91	8.88	9.85	10.82		
600.82	1.01	1.2	1.39	1.52	1.65	1.79	1.67	1.55	1.42	1.9	2.38	2.86	3.03	2.2	1.37	0.78	1.93	3.09	4.71	6.33	7.96	6.5	5.04	3.59	7.66	11.74	15.81	12.76	9.7	6.65	7.07	7.48	7.9	8.87	9.85	10.82		
650.82	0.95	1.09	1.22	1.39	1.56	1.73	1.54	1.35	1.17	1.69	2.22	2.74	2.87	1	1.12	0.91	1.94	2.97	4.45	5.94	7.42	6.19	4.96	3.73	7.84	11.96	16.07	12.91	9.75	6.59	7.02	7.45	7.88	8.86	9.84	10.82		
700.82	0.82	0.9	1.08	1.06	1.26	1.46	1.67	1.41	1.16	1.91	2.48	2.95	2.62	1.71	0.79	1.12	1.03	1.94	2.84	4.19	5.54	6.88	5.88	4.87	3.86	8.02	12.18	16.33	13.07	9.8	6.53	6.97	7.42	7.86	8.85	9.84	10.82	
750.82	0.84	0.87	0.99	0.98	1.13	1.37	1.61	1.29	0.97	2.65	3.27	3.89	3.51	1.55	0.49	0.37	1.16	1.94	2.72	3.93	5.14	6.34	5.56	4.78	4	8.2	12.4	16.6	13.22	9.85	6.47	6.91	7.38	7.84	8.83	9.83	10.82	
800.82	0.79	0.75	0.72	0.7	0.77	0.84	1.16	1.28	1.4	1.66	1.78	2.4	2.66	1.73	0.39	0.39	1.38	2.62	1.28	1.94	2.64	3.67	4.74	5.81	5.23	4.66	4.08	8.34	12.6	16.86	13.37	9.89	6.41	6.88	7.35	7.82	8.82	10.82
850.82	0.73	0.64	0.56	0.89	1.22	1.55	1.08	0.61	0.14	3.86	3.57	2.29	1.24	0.18	0.87	1.41	1.94	2.48	3.41	4.34	5.27	4.83	4.4	3.97	8.35	12.73	17.12	13.53	9.94	6.35	6.83	7.32	7.8	8.81	9.82	10.82		
900.82	0.67	0.53	0.39	0.82	1.24	1.66	1.07	0.47	0.12	3.65	3.42	2.19	1.09	0.01	1.12	1.53	1.94	2.36	3.15	3.94	4.73	4.44	4.14	3.85	8.33	13.82	17.31	13.64	9.97	6.29	6.79	7.29	7.78	8.8	9.81	10.82		
950.82	0.62	0.42	0.23	0.74	1.26	1.77	1.17	0.56	0.05	3.67	3.48	2.09	1.05	0.01	1.03	1.43	1.83	2.24	2.89	3.54	4.19	4.04	3.88	3.73	7.91	12.1	16.28	12.93	9.58	6.23	6.74	7.25	7.76	8.78	9.8	10.82		
1000.82	0.56	0.31	0.16	0.67	1.28	1.88	1.29	0.77	0.11	3.74	3.17	0.93	0.07	0.09	0.12	1.75	2.18	2.67	3.64	3.62	3.61	4.49	4.37	4.17	8.1	13.7	16.43	13.17	9.47	6.43	6.87	7.37	7.87	8.8	9.81	10.82		
1050.82	0.58	0.35	0.12	0.74	1.37	1.99	1.42	0.85	0.28	3.78	3.52	3.6	1.89	0.1	1.12	1.77	2.13	2.69	3.15	3.54	4.27	4.3	4.33	4.49	4.26	10.64	14.22	11.69	9.17	6.65	7.01	7.37	7.73	8.76	9.79	10.82		
1100.82	0.64	0.46	0.28	0.89	1.49	2.1	1.55	0.99	0.44	3.89	3.4	1.8	0.98	0.17	1.43	1.62	2.12	2.49	2.87	3.25	3.29	3.33	3.37	6.64	9.91	13.18	11.08	8.97	6.86	7.15	7.44	7.73	8.76	9.79	10.82			
1150.82	0.69	0.56	0.44	0.03	1.62	2.21	1.67	1.14	0.36	3.96	3.33	1.7	0.96	0.22	0.52	1.04	1.56	2.08	2.45	2.82	3.19	3.21	3.23	3.25	6.22	9.18	12.15	10.46	8.77	7.08	7.3	7.52	7.73	8.76	9.79	10.82		
1200.82	0.74	0.67	0.6	0.17	1.75	2.32	1.8	1.28	0.76	4.04	3.32	1.6	0.94	0.27	0.39	0.94	1.5	2.05	2.41	2.77	3.13	3.13	3.13	3.13	5.79	8.46	11.12	9.85	8.57	7.3	7.44	7.59	7.73	8.76	9.79	10.82		
1250.82	0.78	0.78	0.76	0.12	1.87	2.43	1.93	1.42	0.93	4.12	3.33	1.5	0.91	0.32	0.26	0.85	1.44	2.03	2.37	2.72	3.07	3.05	3.03	3.03	5.37	7.73	10.09	9.23	8.37	7.52	7.59	7.66	7.73	8.76	9.79	10.82		
1300.82	0.85	0.88	0.92	0.46	2.08	2.54	2.06	1.57	1.08	4.19	3.29	1.4	0.89	0.38	0.13	0.75	1.29	1.99	2.33	2.67	3.01	2.97	2.93	2.93	4.94	7.63	10.05	8.61	8.17	7.73	7.73	7.73	8.76	9.79	10.82			
1350.82	0.9	0.99	1.08	0.6	2.13	2.65	2.18	1.71	1.24	2.26	2.28	1.3	0.86	0.43	0.01	0.66	1.31	1.96	2.29	2.62	2.95	2.89	2.83	2.77	4.52	6.27	8.02	8	7.98	7.95	7.88	7.8	7.73	8.76	9.79	10.82		
1400.82	0.96	1.1	1.24	0.75	2.25	2.76	2.31	1.86	1.4	1.34	1.27	1.2	0.84	0.48	0.12	0.56	1.25	1.93	2.25	2.57	2.88	2.81	2.73	2.65	4.1	5.54	6.99	7.38	7.78	7.47	8.02	7.88	7.73	8.76	9.79	10.82		
1450.82	1.01	1.2	1.4	0.89	2.38	2.87	2.44	1.9	1.56	1.41	1.26	1.1	0.82	0.53	0.25	0.47	1.19	1.9	2.21	2.52	2.82	2.73	2.63	2.53	3.67	4.82	5.86	6.77	7.58	8.39	8.17	7.95	7.73	8.76	9.79	10.82		
1500.82	1.06	1.31	1.56	1.03	2.51	2.98	2.56	2.14	1.72	1.48	1.24	1.4	0.74	0.29	0.38	0.37	0.57	1.12	1.87	2.17	2.46	2.76	2.64	2.53	2.41	3.25	4.49	4.93	6.15	7.38	8.6	8.31	8.02	7.73	8.76	9.79	10.82	
1550.82	1.12	1.42	1.72	1.18	2.63	3.09	2.69	2.29	1.89	1.56	1.23	1.9	0.77	0.63	0.35	0.28	1.06	1.84	2.13	2.41	2.7	2.56	2.43	2.29	2.83	3.36	3.89	5.54	6.18	6.82	8.46	8.98	8.73	8.76	9.79	10.82		
1600.82	1.17	1.52	1.87	1.32	2.76	3.21	2.82	2.43	2.05	1.63	1.22	1.8	0.75	0.69	0.63	0.18	1	1.81	2.09	2.36	2.64	2.54	2.44	2.35	2.52	2.69	2.86	4.92	6.98	9.04	8.6	8.17	7.73	8.76	9.79	10.82		
1650.82	1.22	1.63	2.03	1.39	2.74	3.09	2.79	2.5	2.31	1.71	1.21	1.72	1.73	0.74	0.76	0.09	0.93	1.78	2.04	2.31	2.58	2.55	2.52	2.49	2.27	2.05	1.83	4.3	6.78	9.26	8.75	8.24	7.73	8.76	9.79	10.82		
1700.82	1.28	1.73	1.19	1.4	2.61	3.82	3.67	3.52	3.37	1.79	1.21	1.64	1.72	1.8	0.																							

Raw Data (ANT0@6G 5900MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0.5.0.1	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	1.02	
4.5.0.1	1.85	2.69	1.53	1.19	0.85	0.52	0.47	1.46	2.44	0.17	2.79	5.41	2.96	0.51	0.93	0.37	0.8	0.24	1.46	1.16	4.85	5.56	0.27	6.98	1.77	8.56	9.36	11.44	13.52	15.6	15.98	16.35	16.72	15.82	14.91	14	
10.5.0.1	3.69	2.37	1.04	0.86	0.68	0.5	0.46	1.41	2.36	0.03	3.1	4.65	2.5	0.35	1.81	0.25	0.7	0.15	1.84	3.83	5.82	0.31	6.79	7.28	8.11	8.95	9.78	11.63	13.52	15.6	15.98	16.35	16.72	15.82	14.91	14	
16.5.0.1	3.53	2.04	0.56	0.53	0.51	0.48	0.44	1.16	2.28	0.23	1.83	1.89	3.03	0.18	1.68	1.14	0.61	0.07	2.21	4.5	6.78	7.05	7.32	7.59	8.46	9.33	10.2	11.86	13.52	15.6	15.98	16.35	16.72	15.82	14.91	14	
20.5.0.1	3.36	1.72	0.07	0.2	0.14	0.47	0.42	1.31	2.2	0.43	1.35	1.13	1.57	0.01	1.55	1.01	0.55	0.01	2.59	5.16	7.74	7.79	7.84	7.89	8.8	9.71	10.62	12.07	13.52	14.97	15.69	16.42	17.15	16.1	15.05	14	
24.5.0.1	3.2	1.39	0.2	0.13	0.16	0.43	0.34	1.14	1.94	0.5	0.93	0.26	1.05	0.26	1.57	1.01	0.46	0.1	2.97	5.53	8.17	8.2	8.28	8.33	9.37	10.28	11.96	13.45	14.75	15.54	16.33	17.11	16.08	15.04	14		
30.5.0.1	3.24	1.46	0.31	0.06	0.19	0.44	0.22	0.87	1.53	0.48	0.56	1.6	1.52	0.57	1.66	0.04	0.43	0.18	3.2	6.23	9.25	9	8.75	8.51	9.31	10.11	10.91	12.12	13.33	14.54	15.35	16.16	16.98	15.98	14.99	14	
36.5.0.1	3.41	1.82	0.22	0.29	0.35	0.42	0.09	0.61	1.12	0.47	0.19	0.84	0.02	0.88	0.75	0.08	0.41	0.26	3.16	6.06	8.86	8.91	8.86	8.81	9.54	10.26	10.98	12.1	13.21	14.33	15.17	16	16.84	15.89	14.95	14	
40.5.0.1	3.59	2.17	0.75	0.64	0.52	0.41	0.03	0.14	0.71	0.37	0.03	0.32	0.4	1.12	1.83	1.11	0.38	0.35	3.12	5.89	8.67	8.82	8.97	9.12	9.76	10.41	12.08	13.1	14.12	14.98	15.84	16.7	15.8	14.9	14		
44.5.0.1	3.77	2.55	1.29	0.99	0.69	0.39	0.16	0.07	0.33	0.15	0.01	0.16	0.53	1.23	1.92	1.14	0.35	0.43	3.08	5.73	8.57	8.68	8.98	9.29	9.9	10.51	11.13	12.05	12.98	13.91	14.79	15.68	16.57	15.71	14.85	14	
50.5.0.1	3.95	2.88	1.82	1.37	0.92	0.47	0.35	0.23	0.11	0.07	0.04	0.67	1.4	2.01	1.17	0.32	0.52	0.04	3.54	5.56	8.08	8.46	8.85	9.23	9.89	10.54	11.2	12.09	12.99	13.88	14.73	15.58	16.43	15.62	14.81	14	
56.5.0.1	4.13	3.24	2.35	1.75	1.14	0.54	0.53	0.53	0.32	0.29	0.07	0.16	0.8	1.45	2.1	0.2	0.3	0.6	3.4	5.39	7.79	8.25	8.71	9.17	9.87	10.57	11.27	12.21	13.14	14.08	14.81	15.55	16.29	15.53	14.76	14	
60.5.0.1	4.3	3.6	2.89	2.13	1.37	0.61	0.72	0.82	0.93	0.51	0.1	0.32	0.94	1.56	2.18	0.23	0.27	0.69	2.96	5.23	7.5	8.04	8.57	9.11	9.86	10.6	11.34	12.32	13.29	14.27	14.9	15.53	16.16	15.44	14.72	14	
67.5.0.1	4.48	3.95	3.42	2.51	1.6	0.69	0.9	1.12	1.14	0.73	0.13	0.47	1.07	1.67	2.27	0.26	0.24	0.77	2.92	5.06	7.21	7.82	8.44	9.06	9.84	10.63	11.41	12.43	13.45	14.47	14.98	15.5	16.02	15.35	14.67	14	
70.5.0.1	4.66	4.31	3.95	2.89	1.82	0.76	1.09	1.42	1.75	0.95	0.16	0.63	1.21	1.78	2.36	0.29	0.22	0.86	2.88	4.9	6.91	7.61	8.33	9	9.83	10.66	11.49	12.54	13.6	14.66	15.07	15.48	15.88	15.26	14.63	14	
75.5.0.1	4.84	4.66	4.49	3.27	2.05	0.83	1.27	1.72	2.16	1.17	0.19	0.79	1.34	1.9	2.45	0.32	0.19	0.94	2.84	4.73	6.62	7.39	8.17	8.94	9.81	10.68	11.56	12.66	13.76	14.85	15.15	15.45	15.75	15.16	14.58	14	
80.5.0.1	5.01	5.02	5.02	3.65	2.28	0.91	1.46	2.01	2.57	1.39	0.22	0.95	1.48	2.01	2.54	0.35	0.16	1.03	2.79	4.56	6.33	7.18	8.03	8.88	9.79	10.71	11.62	12.76	13.91	15.05	15.24	15.43	15.61	15.08	14.54	14	
85.5.0.1	5.19	5.37	5.55	4.03	2.5	0.98	1.52	2.06	2.59	1.36	0.13	1.11	1.61	2.12	2.62	0.38	0.13	1.11	2.75	4.4	6.04	6.97	7.9	8.82	9.72	10.61	11.5	12.75	14	15.24	15.47	15.69	15.92	15.28	14.64	14	
90.5.0.1	5.37	5.69	5.99	4.41	2.73	1.05	1.54	2.03	2.52	1.26	0	1.26	1.75	2.23	2.71	0.41	0.11	1.12	2.71	4.23	5.75	6.75	7.76	8.77	9.64	10.51	11.38	12.73	14.08	15.37	15.96	16.22	15.48	14.74	14		
95.5.0.1	5.53	5.66	5.98	4.36	2.74	1.13	1.57	2.01	2.45	1.16	0.13	1.42	1.88	2.33	2.78	0.43	0.07	1.28	2.7	4.11	5.53	6.59	7.65	8.71	9.56	10.41	11.25	12.71	14.17	15.63	15.93	16.23	15.62	15.08	14.84	14	
100.5.0.1	5.72	5.53	5.8	4.18	2.73	1.2	1.59	1.98	2.37	1.05	0.26	1.58	1.98	2.4	2.82	0.46	0.12	1.36	2.71	4.06	5.49	6.57	7.65	8.68	9.48	10.31	11.17	12.7	14.26	15.68	16.49	16.8	16.49	15.88	14.94	14	
105.5.0.1	5.91	5.41	5.61	4.17	2.72	1.27	1.62	1.96	2.33	0.95	0.39	1.74	2.09	2.44	2.79	0.42	0.05	1.37	2.64	3.97	5.39	6.39	7.49	8.59	9.4	10.2	11.01	12.68	14.35	16.02	16.39	16.76	17.13	16.08	15.04	14	
110.5.0.1	5.15	5.29	5.43	4.07	2.71	1.35	1.64	1.93	2.22	0.92	0.39	1.7	2.06	2.43	2.79	0.44	0.09	1.26	2.57	3.87	5.17	6.29	7.41	8.53	9.32	10.1	10.89	12.66	14.44	16.22	16.62	17.03	17.43	16.29	15.14	14	
115.5.0.1	5.09	5.17	5.25	3.96	2.67	1.38	1.64	1.89	2.15	0.89	0.37	1.62	2.01	2.4	2.79	0.46	0.13	1.21	2.49	3.77	5.05	6.19	7.34	8.48	9.24	10	10.77	12.65	14.53	16.41	16.85	17.29	17.73	16.49	15.24	14	
120.5.0.1	5.03	5.05	5.07	3.82	2.57	1.31	1.57	1.82	2.08	0.87	0.34	1.54	1.96	2.38	2.79	0.48	0.16	1.15	2.41	3.67	4.93	6.13	7.33	8.53	9.24	9.94	10.64	12.63	14.62	16.61	17.08	17.56	18.04	16.69	15.34	14	
125.5.0.1	4.97	4.89	4.67	3.46	2.44	1.25	1.75	2	2.25	0.85	0.31	1.47	1.91	2.35	2.79	0.5	0.2	1.09	2.33	3.57	4.81	6.08	7.35	8.62	9.25	9.89	10.52	12.55	14.57	16.59	17.17	17.66	18.34	16.89	15.45	14	
130.5.0.1	4.91	4.83	4.71	3.53	2.35	1.17	1.42	1.68	1.93	0.82	0.28	1.39	1.86	2.33	2.79	0.52	0.24	1.03	2.3	3.48	4.63	6.03	7.37	8.7	9.27	9.83	10.4	12.44	14.49	16.53	17.13	17.94	18.64	17.29	15.53	14	
135.5.0.1	4.85	4.69	4.53	3.38	2.24	1.1	1.35	1.6	1.85	0.8	0.25	1.31	1.8	2.3	2.8	0.54	0.28	0.98	2.18	3.38	4.58	5.98	7.38	8.79	9.28	9.78	10.28	12.34	14.41	16.47	17.29	18.12	18.94	17.3	15.65	14	
140.5.0.1	4.79	4.57	4.34	3.24	2.13	1.03	1.28	1.53	1.78	0.78	0.23	1.23	1.75	2.28	2.8	0.56	0.32	0.92	2.1	3.28	4.46	5.93	7.4	8.87	9.3	9.73	10.16	12.24	14.32	16.41	17.35	18.31	19.25	17.5	15.75	14	
145.5.0.1	4.73	4.45	4.16	3.09	2.03	0.96	1.21	1.46	1.71	0.75	0.2	1.15	1.7	2.25	2.8	0.58	0.36	0.86	2.02	3.18	4.44	5.88	7.42	8.96	9.31	9.67	10.03	12.14	14.24	16.35	17.42	18.48	19.55	17.7	15.85	14	
150.5.0.1	4.67	4.32	3.98	2.95	1.92	0.89	1.14	1.38	1.63	0.73	0.17	1.07	1.65	2.22	2.8	0.6	0.4	0.8	1.94	3.08	4.22	5.85	7.43	9.04	9.33	9.62	9.91	12.04	14.16	16.29	17.48	18.66	19.85	19.9	15.95	14	
155.5.0.1	4.61	4.2	3.8	2.8	1.81	0.82	1.09	1.37	1.65	0.77	0.11	0.99	1.6	2.2	2.8	0.62	0.44	0.75	1.87	2.98	4.1	5.78	7.45	9.17	9.38	9.64	9.89	12.02	14.12	16.23	17.47	18.72	19.97	19.98	15.99	14	
160.5.0.1	4.55	4.08	3.62	2.66	1.7	0.75	1.08	1.42	1.76	0.87	0.02	0.91	1.54	2.17	2.8	0.64	0.48	0.69	1.79	2.89	3.99	5.73	7.47	9.21	9.45	9.68	9.92	12	14.08	16.16	17.39	18.62	19.85	19.9	15.95	14	
165.5.0.1	4.49	3.96	3.44	2.52	1.6	0.68	1.07	1.47	1.87	0.97	0.07	0.83	1.48	2.13	2.78	0.65	0.51	0.63	1.71	2.79	3.87	5.68	7.48	9.29	9.51	9.73	9.95	12	14.05	16.1	17.31	18.52	19.73	17.82	15.91	14	
170.5.0.1																																					

Raw Data (ANT0@6G 6500MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0.4.14	1.99	1.34	0.69	0.35	0.24	0.16	0.11	0.07	0.05	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
5.4.14	2.97	1.81	0.65	0.64	0.63	0.62	0.27	0.17	2.06	0.84	0.62	0.4	0.04	1.48	2.91	1.97	1.03	0.09	0.97	1.85	2.72	3.7	4.67	5.64	6.45	7.27	8.09	9.12	14.34	17.47	17.01	16.55	16.08	14.94	13.8	12.66	
10.4.14	2.96	1.79	0.61	0.62	0.62	0.63	0.15	0.94	1.72	0.57	0.42	0.27	0.1	1.08	2.25	1.54	0.84	0.14	1.08	2.03	2.98	3.91	4.84	5.77	6.7	7.63	8.56	11.38	14.2	17.03	16.63	16.23	15.83	14.78	13.72	12.66	
15.4.14	2.95	1.76	0.58	0.59	0.6	0.62	0.05	0.71	1.38	0.3	0.22	0.14	0.24	0.67	1.58	1.11	0.65	0.18	1.2	2.22	3.23	4.12	5.01	5.89	6.94	7.99	9.04	11.55	14.07	16.58	16.25	15.91	15.58	14.61	13.64	12.66	
20.4.14	2.94	1.74	0.54	0.56	0.59	0.61	0.06	0.48	1.03	0.33	0.22	0.02	0.37	0.27	0.92	0.68	0.45	0.22	1.31	2.4	3.49	4.33	5.18	6.02	7.19	8.35	9.51	11.22	13.91	16.13	15.87	15.6	15.33	14.44	13.55	12.66	
25.4.14	2.92	1.71	0.5	0.53	0.57	0.6	0.18	0.24	0.65	0.33	0.31	0.89	0.4	0.09	0.59	0.48	0.37	0.27	1.42	2.58	3.74	4.54	5.35	6.15	7.35	8.54	9.74	11.72	13.7	15.69	15.54	15.39	15.23	14.39	13.53	12.66	
30.4.14	2.98	1.83	0.68	0.65	0.62	0.59	0.31	0.03	0.25	0.42	0.59	0.76	0.37	0.02	0.41	0.37	0.34	0.31	1.51	2.72	3.92	4.71	5.49	6.28	7.44	8.61	9.78	11.6	13.42	15.24	15.25	15.26	15.26	14.39	13.53	12.66	
35.4.14	3.1	2.06	1.02	0.88	0.73	0.58	0.44	0.29	0.15	0.11	0.37	0.63	0.35	0.06	0.23	0.25	0.28	0.31	1.53	2.74	3.95	4.77	5.59	6.41	7.54	8.68	9.81	11.47	13.13	14.79	14.95	15.11	15.27	14.4	13.53	12.66	
40.4.14	3.21	2.29	1.36	1.1	0.84	0.57	0.56	0.56	0.55	0.18	0.19	0.56	0.36	0.15	0.05	0.12	0.19	0.27	1.51	3.75	3.98	4.83	5.68	6.54	7.64	8.74	9.85	11.35	12.85	14.35	14.66	14.99	15.32	14.44	13.53	12.66	
45.4.14	3.33	2.51	1.7	1.32	0.94	0.55	0.69	0.52	0.55	0.45	0.06	0.56	0.42	0.28	0.13	0.01	0.11	0.22	1.49	2.75	4.02	4.9	5.79	6.68	7.75	8.82	9.89	11.22	12.56	13.9	14.36	14.82	15.29	14.41	13.54	12.66	
50.4.14	3.44	2.74	2.05	1.47	0.9	0.33	0.67	1.01	1.36	0.71	0.07	0.57	0.48	0.4	0.31	0.15	0.02	0.18	1.47	2.76	4.05	4.98	5.91	6.85	7.87	8.9	9.92	11.2	12.47	13.75	14.26	14.78	15.3	14.42	13.54	12.66	
55.4.14	3.55	2.97	2.39	1.63	0.87	0.11	0.66	1.21	1.16	0.28	0.07	0.57	0.55	0.52	0.49	0.28	0.07	0.14	1.45	2.76	4.08	5.06	6.04	7.02	8	8.98	9.96	11.29	12.62	13.94	14.4	14.85	15.3	14.42	13.54	12.66	
60.4.14	3.67	3.2	2.73	1.78	0.83	0.11	0.64	1.4	1.26	0.25	0.33	0.58	0.61	0.64	0.67	0.42	0.16	0.09	1.43	2.77	4.11	5.14	6.16	7.19	8.12	9.06	10	11.38	12.76	14.14	14.53	14.99	15.31	14.43	13.55	12.66	
65.4.14	3.78	3.42	3.07	1.93	0.8	0.33	0.63	1.6	2.56	1.51	0.46	0.58	0.67	0.76	0.85	0.55	0.25	0.05	1.41	3.78	4.14	5.21	6.29	7.36	8.25	9.14	10.03	11.47	12.9	14.33	14.66	14.99	15.32	14.44	13.55	12.66	
70.4.14	3.89	3.65	3.41	2.09	0.76	0.56	0.62	1.79	2.96	1.78	0.59	0.59	0.74	0.88	1.03	0.68	0.34	0.01	1.4	2.78	4.17	5.29	6.41	7.53	8.38	9.22	10.07	11.56	13.04	14.53	14.88	15.06	15.33	14.44	13.55	12.66	
75.4.14	4.01	3.88	3.75	2.24	0.73	0.78	0.6	1.98	3.37	2.05	0.73	0.59	0.8	1.21	1.52	0.43	0.03	0.38	2.79	4.2	5.37	6.53	7.7	8.5	9.3	10.11	11.65	13.18	14.72	14.93	15.14	15.34	14.45	13.56	12.66		
80.4.14	4.12	4.1	4.09	2.39	0.69	0.78	0.59	2.18	3.77	2.31	0.86	0.6	0.86	1.33	1.39	0.95	0.51	0.08	3.46	2.8	4.23	5.44	6.66	7.87	8.63	9.39	10.14	11.74	13.33	14.92	15.06	15.21	15.35	14.45	13.56	12.66	
85.4.14	4.23	4.33	4.43	2.54	0.66	0.72	0.44	2.09	3.75	2.3	0.85	0.6	0.93	1.25	1.57	0.09	0.6	0.12	3.4	2.8	4.26	5.52	6.78	8.04	8.76	9.47	10.19	11.83	13.47	15.11	15.16	15.22	15.27	14.4	13.53	12.66	
90.4.14	4.35	4.46	4.77	2.7	0.62	0.45	0.25	1.94	3.63	2.22	0.8	0.61	0.99	1.37	1.75	0.22	0.69	0.16	3.32	3.81	4.29	5.6	6.9	8.21	8.89	9.56	10.24	11.93	13.62	15.31	15.27	15.22	15.18	14.4	13.5	12.66	
95.4.14	4.37	4.61	4.85	2.68	0.5	0.67	0.06	1.78	3.53	2.13	0.76	0.61	1.04	1.47	1.9	0.34	0.77	0.21	3.31	2.82	4.33	5.68	7.03	8.38	9.01	9.65	10.29	12.02	13.76	15.5	15.27	15.23	15.1	14.29	13.47	12.66	
100.4.14	4.39	4.64	4.9	2.64	0.37	0.89	0.13	0.62	1.38	0.55	0.71	0.62	1.06	1.49	0.93	0.47	0.81	0.25	2.94	3.8	5.77	7.16	8.56	9.14	9.74	10.32	12.1	13.91	15.72	15.47	15.42	15.01	14.23	13.45	12.66		
105.4.14	4.41	4.68	4.95	2.59	0.24	1.11	0.32	1.47	1.26	0.96	0.67	0.62	0.07	0.52	0.96	0.32	0.68	0.04	1.45	3.94	5.4	6.86	7.29	8.72	9.27	9.83	10.38	12.22	14.06	15.89	15.57	15.25	14.93	14.17	13.42	12.66	
110.4.14	4.42	4.71	5	2.55	0.11	1.34	0.51	1.31	1.13	1.195	0.77	0.41	0.94	1.46	0.99	0.26	0.53	0.02	1.63	3.05	4.48	5.95	7.42	8.89	9.4	9.91	10.43	12.31	14.2	16.09	15.67	15.26	14.84	14.12	13.39	12.66	
115.4.14	4.44	4.75	5.05	2.55	0.05	1.46	0.64	1.19	3.01	1.96	0.9	0.15	0.78	1.4	0.02	0.2	0.38	0.44	1.81	3.17	4.53	6.04	7.55	9.06	9.53	10	10.47	12.41	14.35	16.28	15.78	15.27	14.76	14.06	13.36	12.66	
120.4.14	4.46	4.78	5.1	2.64	0.18	1.28	0.56	1.16	2.88	1.96	1.03	0.11	0.61	1.33	0.05	0.14	0.23	0.68	1.98	3.28	4.58	5.98	7.38	8.79	9.36	9.94	10.52	12.51	14.49	16.48	15.88	15.27	14.67	14	13.3	12.66	
125.4.14	4.47	4.81	5.15	2.73	0.32	1.48	1.14	2.76	1.96	1.17	0.37	0.45	1.27	0.08	0.08	0.08	0.02	0.16	3.39	4.63	5.89	7.15	8.41	9.73	10.85	11.73	12.43	14.28	16.14	15.62	15.11	14.59	13.95	13.31	12.66		
130.4.14	4.49	4.85	5.2	2.83	0.45	0.92	0.4	1.12	2.64	0.97	0.1	0.63	0.29	0.2	0.11	0.02	0.07	0.16	3.34	4.51	4.68	5.8	6.92	8.03	8.89	9.75	10.61	12.5	14.56	15.29	14.9	14.5	13.89	13.28	12.66		
135.4.14	4.51	4.88	5.25	2.92	0.59	1.24	0.33	1.09	2.51	1.97	0.43	0.89	0.32	0.13	0.14	0.06	0.22	0.4	3.51	3.62	4.73	5.71	6.68	7.66	8.66	9.66	10.66	12.68	13.71	15.23	14.96	14.69	14.42	13.83	13.25	12.66	
140.4.14	4.52	4.91	5.3	3.01	0.72	1.56	0.25	1.07	2.39	1.97	0.56	1.15	0.04	0.07	0.17	0.9	0.37	0.65	2.69	3.73	4.78	5.61	6.45	7.28	8.42	9.57	10.71	12.06	13.42	14.77	14.63	14.48	14.33	13.78	13.22	12.66	
145.4.14	4.54	4.95	5.36	3.11	0.86	1.39	0.17	1.05	2.26	1.98	0.69	1.41	0.2	0.1	0.2	0.84	0.52	1.89	2.87	3.85	4.83	5.52	6.21	6.9	8.19	9.47	10.76	11.94	13.13	14.32	14.3	14.27	14.25	13.72	13.19	12.66	
150.4.14	4.56	4.98	5.41	3.2	1.01	1.21	0.09	1.02	2.14	1.98	0.83	1.67	0.37	0.93	0.24	0.28	0.67	0.23	3.04	3.96	4.88	5.43	5.98	6.53	7.95	9.38	10.8	11.82	12.84	13.86	13.96	14.06	14.16	13.66	13.16	12.66	
155.4.14	4.58	5.02	5.46	3.3	1.13	0.3	0.02	1	2.01	1.98	0.96	1.93	0.53	0.87	0.27	0.32	0.82	0.37	3.23	4.07	4.93	5.34	5.74	6.15	7.75	9.36	10.96	12.78	12.99	13.41	13.65	13.33	14.15	13.65	13.16	12.66	
160.4.14	4.59	5.05	5.51	3.39	1.27	0.85	0.06	0.96	1.87	1.97	1.08	2.19	0.69	0.8	0.3	0.66	0.97	2.61	3.4	4.19	4.98	5.24	5.51	5.78	7.57	9.37	11.17	11.76	12.36	12.95	13.37	13.79	14.21	13.7	13.18	12.66	
165.4.14	4.61	5.08	5.56	3.48	1.4	0.67	0.13	0.93	1.73	1.97	1.21	2.45	0.87	0.71	0.29	0.58	1.13	2.85	3.57	4.3	5.03	5.15	5.27	5.4	7.39	9.38	11.37	11.75	12.12	12.5	13.09	13.68	14.28	1			

Raw Data (ANT0@6G 7200MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0.5,4.3	1.21	1.09	1.16	1.16	1.05	1.19	1.12	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	
5.5,4.3	4.08	2.72	1.36	0.94	0.52	0.1	1.24	2.57	3.9	5.26	6.79	8.44	10.1	11.7	13.4	15.1	16.8	18.5	20.2	21.9	23.6	25.3	27.0	28.7	30.4	32.1	33.8	35.5	37.2	38.9	40.6	42.3	44.0	45.7	47.4	49.1	
10.5,4.3	3.94	2.45	0.95	0.63	0.32	0	1.25	2.51	3.76	5.02	6.27	7.52	8.77	10.02	11.27	12.52	13.77	15.02	16.27	17.52	18.77	20.02	21.27	22.52	23.77	25.02	26.27	27.52	28.77	30.02	31.27	32.52	33.77	35.02	36.27	37.52	
15.5,4.3	3.8	2.17	0.54	0.32	0.11	0.11	1.28	2.45	3.62	4.79	5.96	7.13	8.30	9.47	10.64	11.81	12.98	14.15	15.32	16.49	17.66	18.83	20.00	21.17	22.34	23.51	24.68	25.85	27.02	28.19	29.36	30.53	31.70	32.87	34.04	35.21	
20.5,4.3	3.67	1.9	0.14	0.02	0.11	0.23	1.31	2.39	3.47	4.55	5.63	6.71	7.79	8.87	9.95	11.03	12.11	13.19	14.27	15.35	16.43	17.51	18.59	19.67	20.75	21.83	22.91	24.00	25.08	26.16	27.24	28.32	29.40	30.48	31.56		
25.5,4.3	3.53	1.63	0.27	0.29	0.32	0.34	1.27	2.21	3.14	4.07	5.00	5.93	6.86	7.79	8.72	9.65	10.58	11.51	12.44	13.37	14.30	15.23	16.16	17.09	18.02	18.95	19.88	20.81	21.74	22.67	23.60	24.53	25.46	26.39	27.32		
30.5,4.3	3.53	1.64	0.26	0.33	0.39	0.45	1.18	1.92	2.65	3.38	4.11	4.84	5.57	6.30	7.03	7.76	8.49	9.22	9.95	10.68	11.41	12.14	12.87	13.60	14.33	15.06	15.79	16.52	17.25	17.98	18.71	19.44	20.17	20.90	21.63		
35.5,4.3	3.64	1.84	0.04	0.16	0.36	0.56	1.1	1.63	2.16	2.68	3.21	3.74	4.27	4.80	5.33	5.86	6.39	6.92	7.45	7.98	8.51	9.04	9.57	10.10	10.63	11.16	11.69	12.22	12.75	13.28	13.81	14.34	14.87	15.40	15.93		
40.5,4.3	3.74	2.04	0.34	0	0.34	0.68	1.01	1.34	1.68	2.01	2.34	2.67	3.00	3.33	3.66	3.99	4.32	4.65	4.98	5.31	5.64	5.97	6.30	6.63	6.96	7.29	7.62	7.95	8.28	8.61	8.94	9.27	9.60	9.93	10.26		
45.5,4.3	3.84	2.24	0.64	0.17	0.31	0.78	1.02	1.05	1.19	1.27	1.35	1.43	1.51	1.59	1.67	1.75	1.83	1.91	1.99	2.07	2.15	2.23	2.31	2.39	2.47	2.55	2.63	2.71	2.79	2.87	2.95	3.03	3.11	3.19	3.27		
50.5,4.3	3.94	2.44	0.94	0.45	0.04	0.54	1.09	1.65	2.17	2.69	3.21	3.73	4.25	4.77	5.29	5.81	6.33	6.85	7.37	7.89	8.41	8.93	9.45	9.97	10.49	11.01	11.53	12.05	12.57	13.09	13.61	14.13	14.65	15.17	15.69		
55.5,4.3	4.04	2.64	1.25	0.73	0.22	0.3	1.27	2.24	3.21	4.17	5.14	6.11	7.08	8.05	9.02	9.99	10.96	11.93	12.90	13.87	14.84	15.81	16.78	17.75	18.72	19.69	20.66	21.63	22.60	23.57	24.54	25.51	26.48	27.45			
60.5,4.3	4.14	2.84	1.55	1.01	0.48	0.06	0.05	0.16	0.27	0.42	0.57	0.72	0.87	1.02	1.17	1.32	1.47	1.62	1.77	1.92	2.07	2.22	2.37	2.52	2.67	2.82	2.97	3.12	3.27	3.42	3.57	3.72	3.87	4.02			
65.5,4.3	4.24	3.04	1.85	1.3	0.74	0.18	0.38	0.57	0.76	0.94	1.13	1.31	1.50	1.68	1.87	2.05	2.24	2.43	2.61	2.80	2.99	3.18	3.37	3.56	3.75	3.94	4.13	4.32	4.51	4.70	4.89	5.08	5.27	5.46			
70.5,4.3	4.34	3.25	2.15	1.58	1	0.43	0.7	0.97	1.25	1.53	1.81	2.09	2.37	2.65	2.93	3.21	3.49	3.77	4.05	4.33	4.61	4.89	5.17	5.45	5.73	6.01	6.29	6.57	6.85	7.13	7.41	7.69	7.97	8.25			
75.5,4.3	4.44	3.45	2.45	1.86	1.26	0.67	1.02	1.38	1.74	2.10	2.46	2.82	3.18	3.54	3.90	4.26	4.62	4.98	5.34	5.70	6.06	6.42	6.78	7.14	7.50	7.86	8.22	8.58	8.94	9.30	9.66	10.02	10.38	10.74			
80.5,4.3	4.54	3.65	2.76	2.14	1.52	0.91	1.35	1.78	2.22	2.65	3.09	3.53	3.97	4.41	4.85	5.29	5.73	6.17	6.61	7.05	7.49	7.93	8.37	8.81	9.25	9.69	10.13	10.57	11.01	11.45	11.89	12.33	12.77	13.21			
85.5,4.3	4.64	3.85	3.06	2.42	1.79	1.15	1.52	1.89	2.26	2.63	2.99	3.36	3.73	4.10	4.47	4.84	5.21	5.58	5.95	6.32	6.69	7.06	7.43	7.80	8.17	8.54	8.91	9.28	9.65	10.02	10.39	10.76	11.13	11.50			
90.5,4.3	4.74	4.05	3.36	2.7	2.05	1.39	1.65	1.91	2.17	2.43	2.69	2.95	3.21	3.47	3.73	3.99	4.25	4.51	4.77	5.03	5.29	5.55	5.81	6.07	6.33	6.59	6.85	7.11	7.37	7.63	7.89	8.15	8.41	8.67			
95.5,4.3	4.75	4.06	3.37	2.79	2.21	1.63	1.78	1.91	2.08	2.21	2.34	2.47	2.60	2.73	2.86	2.99	3.12	3.25	3.38	3.51	3.64	3.77	3.90	4.03	4.16	4.29	4.42	4.55	4.68	4.81	4.94	5.07	5.20	5.33			
100.5,4.3	4.74	4.04	3.34	2.85	2.36	1.87	1.91	1.95	2.00	2.04	2.08	2.12	2.16	2.20	2.24	2.28	2.32	2.36	2.40	2.44	2.48	2.52	2.56	2.60	2.64	2.68	2.72	2.76	2.80	2.84	2.88	2.92	2.96	3.00			
105.5,4.3	4.73	4.02	3.32	2.92	2.51	2.11	1.04	1.97	2.9	3.82	4.75	5.68	6.61	7.54	8.47	9.40	10.33	11.26	12.19	13.12	14.05	14.98	15.91	16.84	17.77	18.70	19.63	20.56	21.49	22.42	23.35	24.28	25.21	26.14			
110.5,4.3	4.72	4.01	3.29	2.98	2.67	2.35	2.17	1.99	1.81	1.63	1.45	1.27	1.09	0.91	0.73	0.55	0.37	0.19	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
115.5,4.3	4.71	3.99	3.27	3.01	2.74	2.48	2.23	1.98	1.72	1.46	1.21	0.95	0.69	0.43	0.17	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
120.5,4.3	4.7	3.97	3.25	2.92	2.6	2.27	2.06	1.85	1.64	1.41	1.19	0.97	0.75	0.53	0.31	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
125.5,4.3	4.7	3.96	3.22	2.84	2.45	2.06	1.89	1.72	1.55	1.34	1.18	0.99	0.81	0.63	0.45	0.27	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
130.5,4.3	4.69	3.94	3.2	2.75	2.3	1.86	1.72	1.59	1.46	1.31	1.16	0.99	0.82	0.65	0.48	0.31	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
135.5,4.3	4.68	3.93	3.17	2.66	2.16	1.65	1.56	1.46	1.37	1.26	1.14	0.99	0.84	0.69	0.54	0.39	0.24	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00			
140.5,4.3	4.67	3.91	3.15	2.58	2.01	1.44	1.39	1.33	1.28	1.23	1.18	1.13	1.08	1.03	0.98	0.93	0.88	0.83	0.78	0.73	0.68	0.63	0.58	0.53	0.48	0.43	0.38	0.33	0.28	0.23	0.18	0.13	0.08	0.03			
145.5,4.3	4.66	3.89	3.12	2.49	1.86	1.23	1.22	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.03	1.01	0.99	0.97	0.95	0.93	0.91	0.89	0.87	0.85	0.83	0.81	0.79	0.77	0.75	0.73	0.71	0.69			
150.5,4.3	4.66	3.88	3.1	2.41	1.71	1.02	1.05	1.08	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1			
155.5,4.3	4.65	3.86	3.07	2.32	1.57	0.81	0.91	1.09	1.26	1.43	1.60	1.77	1.94	2.11	2.28	2.45	2.62	2.79	2.96	3.13	3.30	3.47	3.64	3.81	3.98	4.15	4.32	4.49	4.66	4.83	5.00	5.17	5.34	5.51			
160.5,4.3	4.64	3.84	3.05	2.33	1.42	0.61	0.79	0.97	1.15	1.33	1.51	1.69	1.87	2.05	2.23	2.41	2.59	2.77	2.95	3.13	3.31	3.49	3.67	3.85	4.03	4.21	4.39	4.57	4.75	4.93	5.11	5.29	5.47	5.65			
165.5,4.3	4.63	3.83	3.02	2.15	1.27	0.4	0.67	0.94	1.21	1.49	1.76	2.03	2.30	2.57	2.84	3.11	3.38	3.65	3.92	4.19	4.46	4.73	5.00	5.27	5.54	5.81	6.08	6.35	6.62	6.89	7.16	7.43	7.70	7.97			
170.5,4.3	4.58	3.72	2.87	1.97	1.08	0.19	0.55	0.91	1.27	1.63	1.99	2.35	2.71	3.07	3.43	3.79	4.15	4.51	4.87	5.23	5.59	5.95	6.31	6.67	7.03	7.39	7.75	8.11	8.47	8.83	9.19	9.55	9.91	10.27			
175.5,4.3	4.52	3.66	2.69	1.78	0.88	0.02	0.43	0.88	1.33	1.78	2.23	2.68	3.13																								

Raw Data (ANT1@6G 7200MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0.5	4.21	4.33	4.24	4.59	4.65	4.7	4.15	4.36	4.11	4.13	4.47	4.66	4.46	4.27	4.3	4.36	4.18	4.31	4.48	4.53	4.042	4.553	4.065	4.562	4.659	4.455	4.291	4.126	4.62	4.81	8	7.19					
5.5	4.41	4.31	4.22	2.63	1.03	5.56	3.15	0.26	0.66	0.89	1.11	1.33	0.34	0.65	2.64	2.58	2.53	1.47	0.24	1.95	3.67	4.14	4.61	5.08	9.6	14.12	18.64	16.73	14.82	12.92	11.82	10.73	9.63	8.82	8	7.19	
10.5	4.9	5.3	5.7	3.85	2	0.15	0.23	0.3	0.37	0.62	0.86	1.11	0.2	0.71	1.62	1.54	1.47	1.4	0.24	1.88	3.52	3.98	4.43	4.88	8.8	12.72	16.64	15.1	13.57	12.03	11.24	10.44	9.65	8.83	8.01	7.19	
15.5	5.4	6.29	7.18	5.09	2.99	0.9	0.63	0.35	0.08	0.35	0.62	0.89	0.06	0.77	1.89	1.46	1.32	1.18	0.34	1.86	3.38	3.82	4.25	4.68	8	11.31	14.63	13.47	12.31	11.15	10.65	10.16	9.67	8.84	8.02	7.19	
20.5	5.89	7.28	8.67	6.32	3.98	1.64	1.02	0.41	0.21	0.08	0.38	0.67	0.08	0.82	1.87	1.17	1.16	0.96	0.44	1.84	3.24	3.65	4.07	4.48	7.2	9.91	12.62	11.83	11.05	10.26	10.07	9.88	9.68	8.85	8.02	7.19	
25.5	6.05	7.6	9.15	6.89	4.64	2.39	1.5	0.62	0.26	0.02	0.21	0.45	0.18	0.81	2.44	1.21	0.97	0.74	0.55	1.84	3.13	3.51	3.9	4.28	6.72	9.25	11.73	10.95	10.16	9.38	9.41	9.48	9.52	8.75	7.97	7.19	
30.5	5.95	7.4	8.84	6.94	5.03	3.13	2	0.86	0.27	0.11	0.06	0.23	0.25	0.74	2.23	0.99	0.75	0.52	0.66	1.84	3.02	3.38	3.73	4.08	6.42	8.76	11.1	10.23	9.36	8.49	8.75	9	9.26	8.57	7.88	7.19	
35.5	5.85	7.19	8.54	6.98	5.43	3.87	2.49	1.1	0.39	0.19	0.09	0.01	0.33	0.67	1.02	0.78	0.54	0.3	0.78	1.85	2.92	3.24	3.56	3.89	6.08	8.28	10.47	9.84	9.22	8.59	8.72	8.86	8.99	8.19	7.39	7.19	
40.5	5.75	6.99	8.24	7.03	5.82	4.62	3.98	1.34	0.3	0.27	0.24	0.2	0.41	0.61	1.81	1.56	0.32	0.08	0.89	1.85	2.82	3.11	3.4	3.69	5.74	7.79	9.84	9.53	9.23	8.92	8.85	8.79	8.72	8.21	7.7	7.19	
45.5	5.65	6.79	7.93	6.99	6.06	5.12	3.31	1.5	0.31	0.15	0.39	0.42	0.48	0.54	1.59	1.35	0.1	0.15	1	1.86	2.72	2.97	3.23	3.49	5.4	7.31	9.21	9.22	9.24	9.25	8.98	8.72	8.45	8.03	7.61	7.19	
50.5	5.54	6.59	7.63	6.64	5.65	4.66	1	1.34	0.32	0.41	0.49	0.57	0.51	0.44	1.38	1.21	0.84	0.14	0.96	1.79	2.61	2.86	3.12	3.37	5.11	6.85	8.99	8.92	9.24	9.57	9.11	8.65	8.18	7.85	7.52	7.19	
55.5	5.44	6.38	7.32	6.28	5.24	4.2	2.69	1.17	0.34	0.45	0.57	0.69	0.51	0.34	1.17	1.08	0	0.09	0.9	1.7	2.51	2.79	3.07	3.34	4.88	6.42	7.96	8.61	9.25	9.9	9.24	8.58	7.92	7.67	7.43	7.19	
60.5	5.34	6.18	7.02	5.92	4.83	3.74	2.37	1.01	0.35	0.5	0.65	0.8	0.52	0.24	0.04	0.04	0.04	0.83	1.62	2.41	2.71	3.02	3.32	3.66	5.99	7.33	8.3	9.26	10.23	9.37	8.51	7.65	7.5	7.34	7.19		
65.5	5.24	5.98	6.71	5.57	4.42	3.27	2.06	0.85	0.36	0.55	0.73	0.92	0.53	0.14	0.25	0.17	0.08	0.01	0.76	1.53	2.3	2.64	2.97	3.3	4.43	5.57	6.7	7.99	9.27	10.56	9.5	8.44	7.38	7.32	7.25	7.19	
70.5	5.14	5.77	6.41	5.21	4.01	2.81	1.75	0.69	0.38	0.6	0.82	0.04	0.34	0.03	0.47	0.29	0.12	0.05	0.7	1.45	2.2	2.56	2.92	3.28	4.21	5.14	6.07	7.68	9.28	10.89	9.63	8.37	7.11	7.14	7.16	7.19	
75.5	5.04	5.57	6.11	4.85	3.6	2.35	1.44	0.52	0.39	0.64	0.9	1.15	0.54	0.07	0.68	0.42	0.16	0.1	0.63	1.56	2.1	2.48	2.87	3.25	3.98	4.71	5.44	7.27	9.29	11.22	9.76	8.3	6.84	6.96	7.07	7.19	
80.5	4.94	5.38	5.82	4.51	3.2	1.89	1.12	0.36	0.41	0.7	0.98	1.27	0.55	0.17	0.89	0.34	0.2	0.15	0.57	1.3	2.02	2.42	2.83	3.23	3.76	4.29	4.81	7.06	9.3	11.34	9.89	8.23	6.58	6.78	6.98	7.19	
85.5	4.88	5.25	5.63	4.23	2.83	1.43	0.81	0.19	0.43	0.75	0.07	0.39	0.63	0.12	0.88	0.52	0.16	0.2	0.52	1.25	1.97	2.38	2.79	3.21	3.57	3.94	4.31	6.83	9.35	11.87	10.29	8.71	7.13	7.15	7.17	7.19	
90.5	4.82	5.13	5.44	3.95	2.46	0.96	0.49	0.02	0.45	0.8	1.16	0.51	0.72	0.06	0.85	0.48	0.12	0.25	0.47	1.2	1.92	2.34	2.76	3.18	3.62	4.06	4.5	7.07	9.63	12.2	10.69	9.19	7.68	7.52	7.55	7.19	
95.5	4.75	5	5.25	3.67	2.08	0.5	0.18	0.15	0.48	0.86	2.4	1.62	0.81	0	0.82	0.45	0.08	0.29	0.42	1.14	1.86	2.3	2.73	3.16	3.67	4.19	4.7	7.31	9.92	12.53	11.1	9.67	8.23	7.89	7.54	7.19	
100.5	4.69	4.87	5.06	3.59	1.71	0.04	0.14	0.32	0.81	1.33	2.4	0.9	0.66	0.79	0.41	0.34	0.08	0.29	0.81	1.55	2.2	2.6	3.02	3.44	3.91	4.41	4.91	6.93	12.44	11.2	10.01	8.79	7.55	7.42	7.19		
105.5	4.62	4.75	4.87	3.11	1.34	0.42	0.46	0.49	0.52	0.97	1.41	0.86	0.99	1.1	0.76	0.37	0.21	0.39	0.33	1.04	1.76	2.21	2.66	3.12	3.78	4.43	5.09	7.37	9.65	11.93	11.07	10.2	9.34	8.63	7.91	7.19	
110.5	4.56	4.62	4.68	2.82	0.97	0.88	0.77	0.66	0.55	1.02	1.5	0.98	1.07	0.17	0.73	0.34	0.05	0.44	0.28	0.99	1.71	2.17	2.63	3.09	3.83	4.56	5.29	7.33	9.37	11.41	10.91	10.04	9.89	8.99	8.09	7.19	
115.5	4.5	4.49	4.49	2.54	0.6	0.35	0.09	0.83	0.57	1.08	1.59	2.09	1.16	0.23	0.7	0.3	0.09	0.49	0.23	0.94	1.66	2.13	2.6	3.07	3.88	4.68	5.49	7.29	9.1	10.9	10.75	10.06	10.44	9.36	8.27	7.19	
120.5	4.43	4.37	4.3	2.41	0.52	0.37	1.11	0.85	0.59	1.14	1.69	2.24	1.27	0.33	0.67	0.27	0.12	0.52	0.19	0.9	1.6	2.09	2.57	3.06	3.93	4.81	5.68	7.25	8.82	10.39	10.59	10.79	11	9.73	8.46	7.19	
125.5	4.37	4.24	4.11	2.33	0.58	0.21	1.02	0.82	0.62	1.23	1.84	2.46	1.43	0.39	0.64	0.36	0.08	0.2	0.39	1.52	2.02	2.49	2.97	3.52	4.34	5.11	5.88	7.21	8.54	9.87	10.63	10.99	11.55	10.3	8.64	7.19	
130.5	4.31	4.11	3.92	2.25	0.59	0.07	0.93	0.78	0.64	1.32	1.93	2.68	1.49	0.61	0.45	0.29	0.12	0.58	1.04	1.5	2.36	2.72	3.28	4.08	4.74	5.41	6.08	7.17	8.26	9.36	10.27	11.19	12.1	10.46	8.53	7.19	
135.5	4.24	3.99	3.73	2.18	0.63	0.92	0.83	0.75	0.66	1.41	2.16	2.9	1.74	0.58	0.58	0.53	0.49	0.44	0.78	1.11	1.45	2.49	3.34	4.59	5.15	5.71	6.27	7.31	7.99	8.84	10.11	11.38	12.65	10.83	9.01	7.19	
140.5	4.18	3.86	3.54	2.1	0.67	0.77	0.74	0.71	0.69	1.5	2.31	3.12	1.9	0.67	0.55	0.62	0.69	0.76	0.97	1.19	1.4	2.63	3.86	5.09	5.55	6.01	6.47	7.09	7.71	8.33	9.95	11.58	13.21	11.2	9.19	7.19	
145.5	4.12	3.73	3.35	2.03	0.7	0.62	0.65	0.68	0.71	1.59	2.47	3.34	2.06	0.77	0.52	0.71	0.9	1.08	1.17	1.16	1.34	2.76	4.18	5.6	5.96	6.31	6.67	7.05	7.43	7.81	9.9	11.78	13.76	11.57	9.38	7.19	
150.5	4.06	3.65	3.19	1.97	0.73	0.47	0.66	0.76	0.7	1.63	2.56	3.21	2.86	0.49	0.79	1.1	1.4	1.37	1.33	1.29	2.39	4.51	6.11	6.36	6.61	6.86	7.01	7.15	7.3	7.64	11.97	14.31	11.94	9.56	7.19		
155.5	4.1	3.69	3.29	2.09	0.89	0.32	0.52	0.73	0.93	1.88	2.83	3.79	2.43	0.79	0.29	1.24	1.72	1.69	1.65	1.61	3.28	4.35	6.62	6.77	6.91	7.06	6.97	6.88	6.78	9.35	11.91	14.48	12.05	9.62	7.19		
160.5	4.13	3.76	3.38	2.3	1.02	0.16	0.48	0.79	1.1	2.07	0.04	0.01	0.67	1.34	0	0.68	1.36	2.04	2.02	2	3.97	3.69	5.41	7.13	7.17	7.21	7.26	6.93	6.6	6.27	8.87	11.48	14.09	11.99	9.49	7.19	
165.5	4.16	3.82	3.48	2.32	1.15	0.01	0.43	0.85	1.27	2.26	0.24	0.23	0.92	1.61	0.3	0.59	1.48	2.36	2.35	2.34	2.33	4.1	5.87	7.64	7.61	7.59	7.56	6.96	6.36	5.75	8.4	11.05	13.69	11.53	9.36	7.19	
170.5	4.2	3.89	3.58	2.43	1.29	0.14	0.39	0.92	1.44	2.44	0.45	0.45	1.16	1.88	0.59	0.5	1.59	2.68	2.69	3.69	2.7	4.51	6.33	8.15	8.14	8.12	8.11	7.16	6.2	5.24	7.93	11.01	13.3	11.26	9.3	7.19	
175.5																																					

Raw Data (ANT2@6G 4900MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Response (dB)	0.41	0.37	0.66	10.83	17.28	17.43	16.69	16.12	15.07	14.19	14.40	13.71	13.14	12.71	12.14	11.42	10.75	10.33	10.09	9.41	8.71	8.32	8.02	7.57	7.22	10.87	9.9	8.93	7.96	8.47	8.98	9.49	9.63	9.78	9.93		
5.414	6.65	9.16	11.67	8.25	4.82	1.4	0.56	0.29	0.14	0.25	0.37	0.48	0.17	0.86	0.54	0.08	0.37	0.83	0.91	0.99	4.07	4.53	5	5.46	6.97	8.49	10	9.71	9.41	9.12	9.36	9.59	9.83	9.86	9.99	9.93	
10.414	6.93	9.71	12.5	8.85	5.2	1.55	0.58	0.39	0.36	0.34	0.33	0.31	0.06	0.81	0.56	0.12	0.32	0.76	0.85	0.94	4.03	4.43	4.84	5.24	6.54	7.84	9.13	9.17	9.2	9.23	9.54	9.85	10.16	10.09	10.01	9.93	
15.414	7.21	10.27	13.34	9.46	5.58	1.7	0.61	0.49	0.58	0.43	0.28	0.13	0.95	0.76	0.58	0.16	0.26	0.69	0.79	0.89	3.99	4.33	4.68	5.03	6.11	7.19	8.27	8.56	8.85	9.14	9.59	10.05	10.5	10.31	10.12	9.93	
20.414	7.48	10.83	14.17	10.47	5.96	1.85	0.63	0.58	0.8	0.52	0.24	0.96	0.84	0.72	0.6	0.32	0.21	0.61	0.72	0.85	3.99	4.35	4.62	4.81	5.67	6.54	7.4	7.95	8.5	9.05	9.64	10.24	10.54	10.24	10.03	9.93	
25.414	7.49	10.83	14.2	10.13	6.07	2	0.76	0.48	0.73	0.41	0.1	0.78	0.65	0.52	0.39	0.08	0.23	0.54	0.68	0.83	3.97	4.18	4.39	4.6	5.41	6.25	7.08	7.71	8.33	8.96	9.55	10.15	10.75	10.48	10.2	9.93	
30.414	7.36	10.59	13.81	9.92	6.03	2.15	0.95	0.25	0.44	0.16	0.89	0.61	0.44	0.28	0.11	0.08	0.27	0.47	0.66	0.85	4.04	4.16	4.27	4.38	5.26	6.14	7.02	7.63	8.25	8.86	9.43	9.99	10.56	10.35	10.14	9.93	
35.414	7.23	10.32	13.42	9.71	6	2.3	1.14	0.01	0.16	0.92	0.67	0.43	0.23	0.03	0.17	0.24	0.32	0.39	0.63	0.88	4.12	4.13	4.15	4.17	5.1	6.02	6.95	7.56	8.17	8.77	9.31	9.84	10.37	10.22	10.08	9.93	
40.414	7.1	10.06	13.03	9.5	5.97	2.45	1.34	0.23	0.88	0.67	0.46	0.26	0.02	0.21	0.45	0.45	0.46	0.46	0.7	1	3.95	4.19	4.15	4.12	4.08	5.02	5.95	6.89	7.49	8.08	8.68	9.18	9.68	10.18	10.1	10.01	9.93
45.414	6.97	9.8	12.63	9.29	5.94	2.6	1.35	0.47	0.6	0.42	0.25	0.08	0.19	0.46	0.73	0.75	0.77	0.79	0.95	1.11	4.26	4.31	4.35	4.39	5.21	6.02	6.85	7.41	8	8.59	9.06	9.53	9.99	9.97	9.95	9.93	
50.414	6.84	9.54	12.24	9.05	5.85	2.66	1.67	0.68	0.31	0.18	0.04	0.09	0.4	0.7	1.01	1.05	1.09	1.13	1.2	1.27	4.54	4.46	4.59	4.71	5.4	6.08	6.76	7.51	8.26	9.01	9.28	9.54	9.81	9.85	9.89	9.93	
55.414	6.71	9.28	11.85	8.79	5.74	2.68	1.78	0.87	0.03	0.05	0.14	0.23	0.58	0.94	1.29	1.35	1.4	1.46	1.44	1.43	4.41	4.62	4.82	5.03	5.99	6.14	6.7	7.64	8.59	9.54	9.57	9.59	9.62	9.72	9.83	9.93	
60.414	6.58	9.02	11.46	8.54	5.62	2.71	1.89	1.07	0.25	0.39	0.32	0.36	0.76	1.17	1.57	1.65	1.72	1.8	1.69	1.59	4.49	4.47	5.06	5.35	5.78	6.2	6.63	7.78	8.92	10.07	9.86	9.64	9.43	9.6	9.76	9.93	
65.414	6.45	8.76	11.07	8.29	5.51	2.73	2	1.26	0.53	0.52	0.51	0.49	0.95	1.4	1.85	1.94	2.04	2.13	2.94	3.75	4.56	4.93	5.3	5.66	5.97	6.27	6.57	7.91	9.25	10.59	10.14	9.69	9.24	9.47	9.7	9.93	
70.414	6.32	8.5	10.68	8.03	5.39	2.75	2.11	1.46	0.82	0.75	0.69	0.63	1.13	1.63	2.13	2.24	2.35	2.46	3.19	3.91	4.63	5.08	5.53	5.98	6.16	6.33	6.5	8.04	9.58	11.12	10.43	9.74	9.05	9.35	9.64	9.93	
75.414	6.19	8.24	10.28	7.78	5.28	2.77	2.21	1.66	1.1	0.99	0.87	0.76	1.31	1.86	2.41	2.54	2.67	2.8	3.43	4.07	4.71	5.24	5.72	6.3	6.35	6.39	6.44	8.18	9.91	11.65	10.72	9.79	8.87	9.22	9.57	9.93	
80.414	6.1	8.06	10.02	7.61	5.2	2.8	2.3	1.81	1.32	1.18	1.04	0.89	1.45	2	2.55	2.75	2.94	3.13	3.68	4.23	4.78	5.39	6	6.62	6.54	6.47	6.4	8.33	10.25	12.18	11.11	10.03	8.96	9.29	9.61	9.93	
85.414	6.16	8.19	10.21	7.75	5.28	2.82	2.32	1.82	1.32	1.22	1.12	1.03	1.45	1.86	2.28	2.68	3.07	3.47	3.94	4.42	4.9	5.58	6.26	6.93	6.78	6.63	6.47	8.55	10.63	12.7	11.56	10.42	9.28	9.49	9.71	9.93	
90.414	6.23	8.31	10.4	7.88	5.36	2.84	2.33	1.82	1.31	1.26	1.21	1.16	1.44	1.72	2.02	2.36	2.72	3.12	3.6	4.21	4.62	5.02	5.77	6.51	7.25	7.02	6.78	6.55	8.78	11	13.23	12.02	10.8	9.59	9.7	9.93	
95.414	6.29	8.44	10.59	8.01	5.44	2.86	2.35	1.83	1.31	1.3	1.3	1.3	1.44	1.79	1.73	2.53	3.33	4.13	4.47	4.81	5.14	5.95	6.76	7.57	7.25	6.94	6.62	9	11.38	13.76	12.47	11.19	9.91	9.91	9.92	9.93	
100.414	6.35	8.56	10.78	8.15	5.52	2.89	2.36	1.83	1.31	1.35	1.39	1.41	1.44	1.45	1.46	2.46	3.46	4.47	4.73	5.04	5.27	6.14	7.01	7.88	7.61	7.24	7.07	10.01	12.95	15.89	14.53	13.16	11.79	11.12	10.55	9.93	
105.414	6.41	8.69	10.97	8.28	5.6	2.91	2.37	1.84	1.3	1.39	1.48	1.56	1.44	1.1	1.18	2.39	3.4	4.8	5	5.19	5.39	6.33	7.26	8.2	7.73	7.25	6.77	9.45	12.13	14.81	13.99	11.96	10.53	10.33	10.13	9.93	
110.414	6.48	8.82	11.16	8.41	5.67	2.93	2.39	1.84	1.3	1.43	1.56	1.7	1.44	1.17	0.91	2.32	3.73	5.14	5.26	5.39	6.41	7.31	8.21	7.76	7.3	6.85	6.68	12.51	15.34	13.84	12.55	10.85	10.54	10.24	9.93		
115.414	6.54	9.04	11.34	8.55	5.75	2.95	2.4	1.85	1.29	1.47	1.65	1.83	1.43	1.04	0.64	2.2	3.77	5.53	5.43	5.53	6.53	7.48	8.1	7.71	7.32	6.92	9.91	12.89	15.87	14.3	12.73	11.16	10.75	10.34	9.93		
120.414	6.6	9.07	11.53	8.68	5.83	2.98	2.42	1.85	1.29	1.52	1.74	1.96	1.43	0.9	0.36	1.92	3.48	5.04	5.28	5.52	6.76	7.5	7.25	7.99	7.66	7.33	7	9.98	12.96	15.95	14.46	12.97	11.48	10.96	10.44	9.93	
125.414	6.67	9.19	11.72	8.74	5.76	2.77	2.28	1.78	1.29	1.86	1.44	1.51	1.04	0.56	0.09	1.64	3.2	4.75	5.12	5.5	5.88	6.55	7.21	7.88	7.61	7.24	7.07	10.01	12.95	15.89	14.53	13.16	11.79	11.12	10.55	9.93	
130.414	6.73	9.32	11.91	8.8	5.68	2.57	2.14	1.71	1.28	1.9	1.13	1.05	0.64	0.24	0.18	1.36	2.91	4.46	4.97	5.49	6	6.59	7.18	7.77	7.57	7.36	7.15	10.05	12.94	15.84	14.59	13.35	12.1	11.38	10.63	9.93	
135.414	6.79	9.45	12.1	8.86	5.61	2.56	2	1.64	1.28	1.05	0.81	0.58	0.23	0.11	0.46	1.08	2.62	4.17	4.82	5.47	6.12	6.64	7.15	7.67	7.52	7.37	7.22	10.08	12.93	15.79	14.66	13.54	12.42	11.59	10.76	9.93	
140.414	6.86	9.57	12.29	8.91	5.54	2.16	1.87	1.57	1.28	0.89	0.5	0.11	0.17	0.45	0.73	0.8	2.34	3.87	4.66	5.45	6.24	6.68	7.12	7.56	7.47	7.39	7.3	10.11	12.92	15.73	14.73	13.73	12.73	11.8	10.86	9.93	
145.414	6.92	9.7	12.48	8.97	5.46	1.95	1.73	1.5	1.27	0.73	0.19	0.36	0.57	0.79	1.01	0.52	0.25	0.58	0.51	0.44	0.65	6.37	7.03	7.09	7.45	7.42	7.4	7.37	10.14	12.91	15.68	14.8	13.92	13.05	12.01	10.97	9.93
150.414	6.98	9.83	12.67	9.03	5.39	1.73	1.59	1.43	1.27	0.57	0.13	0.83	0.98	1.13	1.28	0.24	1.77	3.29	4.36	5.42	6.49	6.77	7.06	7.34	7.38	7.41	7.45	10.17	12.9	15.62	14.84	14.06	13.28	12.11	11.05	9.93	
155.414	6.97	9.79	12.62	8.93	5.24	1.54	1.47	1.4	1.32	0.45	0.47	0.29	0.33	0.37	0.4	0.36	0.53	0.3	0.41	0.519	6.29	6.61	6.92	7.23	7.47	7.7	7.93	10.48	13.02	15.57	14.84	14.12	13.39	12.23	11.08	9.93	
160.414	6.76	9.38	11.99	8.44	4.89	1.34	1.35	1.36	1.37	0.33	0.72	0.76	0.63	0.5	0.37	0.01	0.35	1.71	0.81	0.49	6	6.38	6.75	7.12	7.58	8.03	8.48	10.82	13.17	15.52	14.84	14.17	13.49	12.33	11.12	9.93	
165.414	6.55	8.96	11.37	7.96	4.55	1.13	1.23	1.33	1.42	0.2	0.01	0.23	0.93	0.64	0.34	0.09	0.16	0.22	0.51	0.461	5.71	6.15	6.58	7.02	7.69	8.35	9.02	11.17	13.32	15.46	14.84	14.22	13.6	12.37	11.15	9.93	
170.414	6.34	8.54	10.74	7.47	4.2	0.93	1.11	1.29	1.47	0.08	0.31	0.77	0.																								

Raw Data (ANT2@6G 6500MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0.0	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8.0	8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9.0	9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10.0	10.1	10.2	10.3	10.4	10.5	10.6	10.7	10.8	10.9
5.0	8.42	7.07	5.72	3.79	1.86	0.07	1.02	2.97	4.93	6.87	8.72	10.57	12.42	14.28	16.13	17.98	19.83	21.68	23.53	25.38	27.23	29.08	30.93	32.78	34.63	36.48	38.33	40.18	42.03	43.88	45.73	47.58	49.43	51.28	53.13	54.98	56.83	
10.0	7.84	6.97	4.67	2.38	0.08	0.96	2.91	4.86	6.81	8.76	10.71	12.66	14.61	16.56	18.51	20.46	22.41	24.36	26.31	28.26	30.21	32.16	34.11	36.06	38.01	39.96	41.91	43.86	45.81	47.76	49.71	51.66	53.61	55.56	57.51	59.46	61.41	
15.0	9.25	8.73	8.22	5.55	2.89	0.23	1.9	2.02	3.14	4.26	5.37	6.49	7.61	8.73	9.85	10.97	12.09	13.21	14.33	15.45	16.57	17.69	18.81	19.93	21.05	22.17	23.29	24.41	25.53	26.65	27.77	28.89	30.01	31.13	32.25	33.37	34.49	35.61
20.0	9.57	9.47	6.44	1.4	0.37	1.84	2.25	3.4	4.5	5.6	6.7	7.8	8.9	10.0	11.1	12.2	13.3	14.4	15.5	16.6	17.7	18.8	19.9	21.0	22.1	23.2	24.3	25.4	26.5	27.6	28.7	29.8	30.9	32.0	33.1	34.2	35.3	36.4
25.0	9.82	9.88	9.93	6.79	1.65	0.52	1.67	1.85	3.04	4.23	5.42	6.61	7.80	8.99	10.18	11.37	12.56	13.75	14.94	16.13	17.32	18.51	19.70	20.89	22.08	23.27	24.46	25.65	26.84	28.03	29.22	30.41	31.60	32.79	33.98	35.17	36.36	
30.0	9.77	9.84	9.92	9.99	6.88	1.77	0.66	0.42	1.51	2.59	3.7	4.79	5.88	6.97	8.06	9.15	10.24	11.33	12.42	13.51	14.60	15.69	16.78	17.87	18.96	20.05	21.14	22.23	23.32	24.41	25.50	26.59	27.68	28.77	29.86	30.95	32.04	
35.0	9.77	9.86	9.96	10.05	6.97	1.89	0.81	0.18	1.16	2.15	3.14	4.13	5.12	6.11	7.10	8.09	9.08	10.07	11.06	12.05	13.04	14.03	15.02	16.01	17.00	18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	28.00	29.00	
40.0	9.77	9.88	10.0	10.11	7.06	4	0.95	0.07	0.82	1.7	2.65	3.6	4.54	5.49	6.43	7.38	8.33	9.28	10.23	11.18	12.13	13.08	14.03	14.98	15.93	16.88	17.83	18.78	19.73	20.68	21.63	22.58	23.53	24.48	25.43	26.38	27.33	
45.0	9.77	9.9	10.04	10.17	7.14	4.12	1.1	0.31	0.48	1.26	2.12	2.99	3.86	4.72	5.59	6.46	7.33	8.20	9.07	9.94	10.81	11.68	12.55	13.42	14.29	15.16	16.03	16.90	17.77	18.64	19.51	20.38	21.25	22.12	22.99	23.86		
50.0	9.77	9.92	10.07	10.23	7.22	4.21	1.2	0.53	0.15	0.82	1.18	1.7	2.78	3.72	4.66	5.59	6.53	7.47	8.41	9.35	10.29	11.23	12.17	13.11	14.05	14.99	15.93	16.87	17.81	18.75	19.69	20.63	21.57	22.51	23.45	24.39	25.33	
55.0	9.77	9.94	10.11	10.29	7.28	4.28	1.28	0.73	0.18	0.37	0.68	1.31	2.73	4.16	5.59	7.02	8.45	9.88	11.31	12.74	14.17	15.60	17.03	18.46	19.89	21.32	22.75	24.18	25.61	27.04	28.47	29.90	31.33	32.76	34.19	35.62		
60.0	9.77	9.96	10.15	10.34	7.35	4.35	1.36	0.93	0.5	0.07	0.37	0.81	1.25	2.68	4.12	5.55	6.98	8.41	9.84	11.27	12.70	14.13	15.56	16.99	18.42	19.85	21.28	22.71	24.14	25.57	27.00	28.43	29.86	31.29	32.72	34.15		
65.0	9.77	9.98	10.19	10.4	7.41	4.43	1.44	1.13	0.82	0.51	0.05	0.62	1.19	2.63	4.07	5.50	6.93	8.36	9.79	11.22	12.65	14.08	15.51	16.94	18.37	19.80	21.23	22.66	24.09	25.52	26.95	28.38	29.81	31.24	32.67	34.10		
70.0	9.77	10.0	10.23	10.46	7.48	4.5	1.52	1.33	1.14	0.96	0.26	0.43	1.13	2.58	4.03	5.47	6.91	8.35	9.78	11.21	12.64	14.07	15.50	16.93	18.36	19.79	21.22	22.65	24.08	25.51	26.94	28.37	29.80	31.23	32.66	34.09		
75.0	9.77	10.02	10.27	10.52	7.55	4.57	1.6	1.53	1.47	1.4	0.98	0.25	0.07	1.53	3.01	4.44	5.87	7.30	8.73	10.16	11.59	13.02	14.45	15.88	17.31	18.74	20.17	21.60	23.03	24.46	25.89	27.32	28.75	30.18	31.61	33.04		
80.0	9.77	10.04	10.32	10.59	7.62	4.65	1.68	1.69	1.71	1.73	0.81	0.1	0.01	2.49	4.03	5.56	7.09	8.62	10.15	11.68	13.21	14.74	16.27	17.80	19.33	20.86	22.39	23.92	25.45	26.98	28.51	30.04	31.57	33.10	34.63			
85.0	9.77	10.08	10.39	10.7	7.72	4.74	1.76	1.7	1.65	1.6	0.75	0.1	0.06	3.5	5.05	6.4	7.88	9.35	10.82	12.29	13.76	15.23	16.70	18.17	19.64	21.11	22.58	24.05	25.52	27.00	28.47	29.94	31.41	32.88	34.35			
90.0	9.77	10.11	10.46	10.8	7.81	4.82	1.84	1.71	1.59	1.47	0.68	0.11	0.9	3.51	5.13	6.75	8.37	9.99	11.61	13.23	14.85	16.47	18.09	19.71	21.33	22.95	24.57	26.19	27.81	29.43	31.05	32.67	34.29	35.91	37.53			
95.0	9.77	10.15	10.53	10.91	7.91	4.91	1.92	1.72	1.53	1.44	0.62	0.11	0.84	3.52	5.21	6.83	8.45	10.07	11.69	13.31	14.93	16.55	18.17	19.79	21.41	23.03	24.65	26.27	27.89	29.51	31.13	32.75	34.37	35.99	37.61			
100.0	9.77	10.18	10.6	11.01	8.01	5	2.01	1.74	1.48	1.41	0.55	0.11	0.78	3.53	5.29	6.91	8.53	10.15	11.77	13.39	15.01	16.63	18.25	19.87	21.49	23.11	24.73	26.35	27.97	29.59	31.21	32.83	34.45	36.07	37.69			
105.0	9.77	10.22	10.67	11.12	8.1	5.09	2.08	1.75	1.42	1.09	0.48	0.12	0.72	3.54	5.37	6.99	8.61	10.23	11.85	13.47	15.09	16.71	18.33	19.95	21.57	23.19	24.81	26.43	28.05	29.67	31.29	32.91	34.53	36.15	37.77			
110.0	9.77	10.25	10.74	11.22	8.2	5.18	2.16	1.76	1.36	0.96	0.42	0.12	0.66	3.55	5.44	7.06	8.68	10.30	11.92	13.54	15.16	16.78	18.40	20.02	21.64	23.26	24.88	26.50	28.12	29.74	31.36	32.98	34.60	36.22	37.84			
115.0	9.77	10.29	10.81	11.33	8.3	5.27	2.24	1.77	1.3	0.83	0.35	0.13	0.6	3.56	5.52	7.14	8.76	10.38	12.00	13.62	15.24	16.86	18.48	20.10	21.72	23.34	24.96	26.58	28.20	29.82	31.44	33.06	34.68	36.30	37.92			
120.0	9.77	10.32	10.88	11.43	8.39	5.35	2.32	1.78	1.24	0.77	0.29	0.13	0.55	3.57	5.6	7.22	8.84	10.46	12.08	13.70	15.32	16.94	18.56	20.18	21.80	23.42	25.04	26.66	28.28	29.90	31.52	33.14	34.76	36.38	38.00			
125.0	9.77	10.36	10.98	11.54	8.37	5.43	2.43	1.84	1.06	0.58	0.12	0.34	0.5	3.58	5.73	7.35	8.97	10.59	12.21	13.83	15.45	17.07	18.69	20.31	21.93	23.55	25.17	26.79	28.41	30.03	31.65	33.27	34.89	36.51	38.13			
130.0	9.77	10.39	11.02	11.64	8.34	5.04	2.4	1.31	0.88	0.45	0.06	0.56	0.07	3.59	5.82	7.44	9.06	10.68	12.30	13.92	15.54	17.16	18.78	20.40	22.02	23.64	25.26	26.88	28.50	30.12	31.74	33.36	34.98	36.60	38.22			
135.0	9.77	10.43	11.09	11.75	8.31	4.88	2.44	1.07	0.69	0.32	0.23	0.78	0.33	3.6	5.94	7.56	9.18	10.80	12.42	14.04	15.66	17.28	18.90	20.52	22.14	23.76	25.38	27.00	28.62	30.24	31.86	33.48	35.10	36.72	38.34			
140.0	9.77	10.46	11.16	11.85	8.29	4.72	1.15	0.83	0.51	0.19	0.4	0.1	0.6	3.61	6.04	7.66	9.28	10.90	12.52	14.14	15.76	17.38	19.00	20.62	22.24	23.86	25.48	27.10	28.72	30.34	31.96	33.58	35.20	36.82	38.44			
145.0	9.77	10.5	11.23	11.96	8.26	4.56	0.86	0.59	0.33	0.06	0.58	0.22	0.86	3.7	6.13	7.75	9.37	11.00	12.62	14.24	15.86	17.48	19.10	20.72	22.34	23.96	25.58	27.20	28.82	30.44	32.06	33.68	35.30	36.92	38.54			
150.0	9.77	10.53	11.3	12.06	8.23	4.4	0.57	0.36	0.15	0.06	0.75	0.44	0.13	3.71	6.22	7.84	9.46	11.08	12.70	14.32	15.94	17.56	19.18	20.80	22.42	24.04	25.66	27.28	28.90	30.52	32.14	33.76	35.38	37.00				
155.0	9.77	10.51	11.25	11.99	8.08	4.18	0.28	0.13	0.01	0.15	0.9	0.65	0.4	3.72	6.33	7.95	9.57	11.19	12.81	14.43	16.05	17.67	19.29	20.91	22.53	24.15	25.77	27.39	29.01	30.63	32.25	33.87	35.49	37.11				
160.0	9.77	10.33	11.09	11.46	7.63	3.81	0.02	0.09	0.17	0.25	0.05	0.86	0.66	3.38	6.09	7.81	9.53	11.25	12.97	14.69	16.41	18.13	19.85	21.57	23.29	25.01	26.73	28.45	30.17	31.89	33.61	35.33	37.05	38.77				
165.0	9.77	10.16	10.54	10.93	7.19	3.44																																

Raw Data (ANT2@6G 7200MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0.6.87	6.9	6.02	6.35	6.56	6.34	6.24	6.14	6.09	6.01	6.12	6.31	6.51	6.69	6.84	6.99	7.11	7.11	6.82	6.57	6.36	6.14	5.93	5.73	5.53	5.33	5.13	4.93	4.73	4.53	4.33	4.13	3.93	3.73	3.53	3.33	3.13	
5.6.87	7.21	7.56	7.9	8.24	8.57	8.89	9.2	9.5	9.8	10.1	10.4	10.7	11	11.3	11.6	11.9	12.2	12.5	12.8	13.1	13.4	13.7	14	14.3	14.6	14.9	15.2	15.5	15.8	16.1	16.4	16.7	17	17.3	17.6	17.9	18.2
10.6.87	7.53	8.19	8.85	9.51	10.17	10.83	11.49	12.15	12.81	13.47	14.13	14.79	15.45	16.11	16.77	17.43	18.09	18.75	19.41	20.07	20.73	21.39	22.05	22.71	23.37	24.03	24.69	25.35	26.01	26.67	27.33	27.99	28.65	29.31	29.97	30.63	
15.6.87	7.85	8.83	9.8	10.81	11.74	12.67	13.6	14.53	15.46	16.39	17.32	18.25	19.18	20.11	21.04	21.97	22.9	23.83	24.76	25.69	26.62	27.55	28.48	29.41	30.34	31.27	32.2	33.13	34.06	34.99	35.92	36.85	37.78	38.71	39.64	40.57	
20.6.87	8.17	9.46	10.76	12.05	13.34	14.63	15.92	17.21	18.5	19.79	21.08	22.37	23.66	24.95	26.24	27.53	28.82	30.11	31.4	32.69	33.98	35.27	36.56	37.85	39.14	40.43	41.72	43.01	44.3	45.59	46.88	48.17	49.46	50.75	52.04		
25.6.87	8.25	9.64	11.02	12.39	13.76	15.13	16.5	17.87	19.24	20.61	21.98	23.35	24.72	26.09	27.46	28.83	30.2	31.57	32.94	34.31	35.68	37.05	38.42	39.79	41.16	42.53	43.9	45.27	46.64	48.01	49.38	50.75	52.12	53.49	54.86		
30.6.87	8.22	9.57	10.93	12.28	13.63	14.98	16.33	17.68	19.03	20.38	21.73	23.08	24.43	25.78	27.13	28.48	29.83	31.18	32.53	33.88	35.23	36.58	37.93	39.28	40.63	41.98	43.33	44.68	46.03	47.38	48.73	50.08	51.43	52.78	54.13		
35.6.87	8.19	9.51	10.83	12.15	13.47	14.79	16.11	17.43	18.75	20.07	21.39	22.71	24.03	25.35	26.67	28	29.31	30.63	31.95	33.27	34.59	35.91	37.23	38.55	39.87	41.19	42.51	43.83	45.15	46.47	47.79	49.11	50.43	51.75	53.07		
40.6.87	8.16	9.45	10.74	12.03	13.32	14.61	15.9	17.19	18.48	19.77	21.06	22.35	23.64	24.93	26.22	27.51	28.8	30.09	31.38	32.67	33.96	35.25	36.54	37.83	39.12	40.41	41.7	43	44.29	45.58	46.87	48.16	49.45	50.74			
45.6.87	8.13	9.39	10.65	11.91	13.17	14.43	15.69	16.95	18.21	19.47	20.73	21.99	23.25	24.51	25.77	27.03	28.29	29.55	30.81	32.07	33.33	34.59	35.85	37.11	38.37	39.63	40.89	42.15	43.41	44.67	45.93	47.19	48.45	49.71	50.97		
50.6.87	8.1	9.23	10.36	11.49	12.62	13.75	14.88	16.01	17.14	18.27	19.4	20.53	21.66	22.79	23.92	25.05	26.18	27.31	28.44	29.57	30.7	31.83	32.96	34.09	35.22	36.35	37.48	38.61	39.74	40.87	42	43.13	44.26	45.39	46.52		
55.6.87	8.07	9.27	10.47	11.66	12.86	14.05	15.25	16.45	17.65	18.85	20.05	21.25	22.45	23.65	24.85	26.05	27.25	28.45	29.65	30.85	32.05	33.25	34.45	35.65	36.85	38.05	39.25	40.45	41.65	42.85	44.05	45.25	46.45	47.65	48.85		
60.6.87	8.04	9.21	10.37	11.53	12.69	13.85	15.01	16.17	17.33	18.49	19.65	20.81	21.97	23.13	24.29	25.45	26.61	27.77	28.93	30.09	31.25	32.41	33.57	34.73	35.89	37.05	38.21	39.37	40.53	41.69	42.85	44.01	45.17	46.33	47.49		
65.6.87	8.01	9.14	10.28	11.42	12.56	13.7	14.84	15.98	17.12	18.26	19.4	20.54	21.68	22.82	23.96	25.1	26.24	27.38	28.52	29.66	30.8	31.94	33.08	34.22	35.36	36.5	37.64	38.78	39.92	41.06	42.2	43.34	44.48	45.62	46.76		
70.6.87	7.98	9.08	10.19	11.29	12.39	13.49	14.59	15.69	16.79	17.89	18.99	20.09	21.19	22.29	23.39	24.49	25.59	26.69	27.79	28.89	29.99	31.09	32.19	33.29	34.39	35.49	36.59	37.69	38.79	39.89	41	42.1	43.2	44.3	45.4		
75.6.87	7.95	9.02	10.1	11.16	12.22	13.28	14.34	15.4	16.46	17.52	18.58	19.64	20.7	21.76	22.82	23.88	24.94	26	27.06	28.12	29.18	30.24	31.3	32.36	33.42	34.48	35.54	36.6	37.66	38.72	39.78	40.84	41.9	43	44.06		
80.6.87	7.93	8.98	10.04	11.1	12.16	13.22	14.28	15.34	16.4	17.46	18.52	19.58	20.64	21.7	22.76	23.82	24.88	25.94	27	28.06	29.12	30.18	31.24	32.3	33.36	34.42	35.48	36.54	37.6	38.66	39.72	40.78	41.84	42.9	44		
85.6.87	7.95	9.03	10.11	11.19	12.27	13.35	14.43	15.51	16.59	17.67	18.75	19.83	20.91	21.99	23.07	24.15	25.23	26.31	27.39	28.47	29.55	30.63	31.71	32.79	33.87	34.95	36.03	37.11	38.19	39.27	40.35	41.43	42.51	43.59	44.67		
90.6.87	7.97	9.07	10.17	11.27	12.37	13.47	14.57	15.67	16.77	17.87	18.97	20.07	21.17	22.27	23.37	24.47	25.57	26.67	27.77	28.87	29.97	31.07	32.17	33.27	34.37	35.47	36.57	37.67	38.77	39.87	40.97	42.07	43.17	44.27	45.37		
95.6.87	7.99	9.12	10.24	11.36	12.48	13.6	14.72	15.84	16.96	18.08	19.2	20.32	21.44	22.56	23.68	24.8	25.92	27.04	28.16	29.28	30.4	31.52	32.64	33.76	34.88	35.99	37.11	38.23	39.35	40.47	41.59	42.71	43.83	44.95	46.07		
100.6.87	8.02	9.16	10.31	11.46	12.61	13.76	14.91	16.06	17.21	18.36	19.51	20.66	21.81	22.96	24.11	25.26	26.41	27.56	28.71	29.86	31.01	32.16	33.31	34.46	35.61	36.76	37.91	39.06	40.21	41.36	42.51	43.66	44.81	45.96	47.11		
105.6.87	8.04	9.21	10.38	11.55	12.72	13.89	15.06	16.23	17.4	18.57	19.74	20.91	22.08	23.25	24.42	25.59	26.76	27.93	29.1	30.27	31.44	32.61	33.78	34.95	36.12	37.29	38.46	39.63	40.8	41.97	43.14	44.31	45.48	46.65	47.82		
110.6.87	8.06	9.25	10.44	11.63	12.82	14.01	15.2	16.39	17.58	18.77	19.96	21.15	22.34	23.53	24.72	25.91	27.1	28.29	29.48	30.67	31.86	33.05	34.24	35.43	36.62	37.81	39	40.19	41.38	42.57	43.76	44.95	46.14	47.33	48.52		
115.6.87	8.08	9.3	10.51	11.73	12.94	14.15	15.36	16.57	17.78	18.99	20.2	21.41	22.62	23.83	25.04	26.25	27.46	28.67	29.88	31.09	32.3	33.51	34.72	35.93	37.14	38.35	39.56	40.77	41.98	43.19	44.4	45.61	46.82	48.03	49.24		
120.6.87	8.11	9.34	10.58	11.82	13.05	14.28	15.51	16.74	17.97	19.2	20.43	21.66	22.89	24.12	25.35	26.58	27.81	29.04	30.27	31.5	32.73	33.92	35.11	36.3	37.5	38.74	39.93	41.12	42.31	43.5	44.74	45.93	47.12	48.31	49.5		
125.6.87	8.13	9.39	10.65	11.91	13.17	14.43	15.69	16.95	18.21	19.47	20.73	21.99	23.25	24.51	25.77	27.03	28.29	29.55	30.81	32.07	33.33	34.59	35.85	37.11	38.37	39.63	40.89	42.15	43.41	44.67	45.93	47.19	48.45	49.71	50.97		
130.6.87	8.15	9.43	10.71	12	13.29	14.58	15.87	17.16	18.45	19.74	21.03	22.32	23.61	24.9	26.19	27.48	28.77	30.06	31.35	32.64	33.93	35.22	36.51	37.8	39.09	40.38	41.67	42.96	44.25	45.54	46.83	48.12	49.41	50.7	51.99		
135.6.87	8.17	9.48	10.78	12.07	13.36	14.65	15.94	17.23	18.52	19.81	21.1	22.39	23.68	24.97	26.26	27.55	28.84	30.13	31.42	32.71	34	35.29	36.58	37.87	39.16	40.45	41.74	43.03	44.32	45.61	46.9	48.19	49.48	50.77	52.06		
140.6.87	8.2	9.52	10.85	12.18	13.51	14.84	16.17	17.5	18.88	20.21	21.54	22.87	24.2	25.53	26.86	28.19	29.52	30.85	32.18	33.51	34.84	36.17	37.5	38.88	40.21	41.54	42.87	44.2	45.53	46.86	48.19	49.52	50.85	52.18	53.51		
145.6.87	8.22	9.57	10.91	12.24	13.57	14.9	16.23	17.56	18.89	20.22	21.55	22.88	24.21	25.54	26.87	28.2	29.53	30.86	32.19	33.52	34.85	36.18	37.51	38.84	40.17	41.5	42.88	44.21	45.54	46.87	48.2	49.53	50.86	52.19	53.52		
150.6.87	8.24	9.61	10.98	12.35	13.72	15.09	16.46	17.83	19.2	20.57	21.94	23.31	24.68	26.05	27.42	28.79	30.16	31.53	32.9	34.27	35.64	37.01	38.38	39.75	41.12	42.49	43.86	45.23	46.6	47.97	49.34	50.71	52.08	53.45	54.82		
155.6.87	8.2	9.54	10.87	12.2	13.54	14.87	16.2	17.53	18.86	20.19	21.52	22.85	24.18	25.51	26.84	28.17	29.5	30.83	32.16	33.49	34.82	36.15	37.48	38.81	40.14	41.47	42.8	44.13	45.46	46.79	48.12	49.45	50.78	52.11	53.44		
160.6.87	8.03	9.18	10.34	11.5	12.66	13.81	14.96	16.11	17.26	18.41	19.56	20.71	21.86	23.01	24.16	25.31	26.46	27.61	28.76	29.																	

Raw Data (ANT3@6G 5900MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)	Response (dB)
0.0	1.2	1.3	6.24	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	15.52	
0.5	9.91	7.94	6.97	6	5.43	4.87	4.31	3.46	2.62	1.77	0.61	0.55	0.72	0.66	1.6	0.54	1.01	0.48	0.05	0.59	1.13	4.67	5.73	6.79	7.84	8.67	9.49	10.32	12.64	14.97	17.29	15.87	14.45	13.02	12.89	12.77	12.64	
10.0	10.91	7.86	6.81	5.75	5.19	4.63	4.07	3.36	2.66	1.95	0.71	0.52	0.76	0.57	1.37	1.18	0.63	0.07	0.48	1.93	3.38	4.83	6.04	7.25	8.46	8.81	9.16	9.51	12.13	14.74	17.35	15.98	14.61	13.24	13.04	12.84	12.64	
105.0	10.91	7.78	6.64	5.51	4.95	4.39	3.83	3.26	2.69	2.13	0.82	0.49	1.81	1.48	1.14	0.81	0.19	0.43	1.05	2.36	3.68	4.99	6.4	7.81	9.21	9.05	8.88	8.71	11.61	14.51	17.41	16.09	14.77	13.45	13.18	12.91	12.64	
205.0	10.91	7.7	6.48	5.27	4.71	4.15	3.59	3.16	2.73	2.31	0.92	0.47	1.85	1.38	0.92	0.45	0.24	0.93	1.62	2.8	3.98	5.15	6.76	8.36	9.97	9.28	8.59	7.9	11.69	14.28	17.47	16.2	14.94	13.67	13.33	12.98	12.64	
305.0	10.91	7.57	6.24	4.9	4.38	3.87	3.35	3.06	2.77	2.48	1.02	0.44	0.9	0.29	0.69	0.09	0.67	1.44	2.2	3.2	4.19	5.19	7.04	8.88	10.72	9.81	8.9	7.98	11.77	14.35	17.53	16.26	14.99	13.71	13.36	13	12.64	
405.0	10.91	7.44	5.97	4.5	4.04	3.57	3.11	2.9	2.69	2.48	1.02	0.44	0.89	0.21	0.54	0.14	1.02	1.9	2.77	3.56	4.35	5.14	7.25	9.37	11.48	10.51	9.55	8.59	11.59	14.59	17.59	16.29	15	13.7	13.35	12.99	12.64	
505.0	10.91	7.3	5.7	4.1	3.78	3.47	3.16	2.81	2.46	2.11	0.84	0.43	0.7	0.12	0.53	0.06	1.15	2.25	3.34	3.93	4.51	5.09	7.47	9.85	12.23	11.22	10.2	9.19	12.01	14.83	17.65	16.33	15.01	13.69	13.34	12.99	12.64	
605.0	10.91	7.17	5.43	3.69	3.34	3.4	3.25	3.74	2.74	2.24	1.74	0.66	0.42	1.51	1.02	0.52	0.03	1.28	2.6	3.92	4.29	4.67	5.04	7.69	10.34	12.09	11.92	10.86	0.79	12.31	14.82	17.14	16.12	14.9	13.67	13.33	12.98	12.64
705.0	10.91	7.04	5.16	3.29	3.31	3.32	3.34	3.68	2.03	1.37	0.48	0.42	0.31	0.92	0.52	0.12	1.42	2.95	4.49	4.66	4.83	4.99	7.91	10.83	13.74	12.62	11.51	10.39	12.36	14.73	16.9	15.82	14.74	13.66	13.32	12.98	12.64	
805.0	10.91	6.9	4.89	2.89	3.07	3.25	3.41	2.62	1.81	1.1	0.29	0.41	1.12	0.82	0.51	0.21	1.45	3.12	4.78	4.84	4.89	4.94	8.13	11.31	14.5	13.33	12.16	10.99	12.82	14.64	16.46	15.52	14.58	13.65	13.31	12.97	12.64	
905.0	10.91	6.77	4.63	2.48	2.53	3.17	3.52	2.56	1.99	0.63	0.11	0.41	0.93	0.72	0.51	0.3	1.3	2.9	4.49	4.63	4.76	4.89	8.08	11.26	14.44	13.49	12.54	11.59	13.07	14.54	16.02	15.22	14.43	13.63	13.3	12.97	12.64	
1005.0	10.91	6.63	4.36	2.08	2.59	3.1	3.61	2.49	1.38	0.26	0.07	0.4	0.73	0.62	0.5	0.39	1.14	2.67	4.21	4.42	4.63	4.84	8.01	11.18	14.35	13.64	12.92	12.2	13.32	14.45	15.58	14.93	14.27	13.62	13.29	12.96	12.64	
1105.0	10.91	6.5	4.09	1.68	2.35	3.02	3.7	3.43	1.16	0.11	0.25	0.4	0.54	0.52	0.5	0.48	0.99	2.45	3.92	4.21	4.5	4.79	7.95	11.11	14.27	13.78	13.29	12.8	13.58	14.36	15.14	14.63	14.12	13.6	13.28	12.96	12.64	
1205.0	10.91	6.36	3.82	1.28	2.11	2.95	3.79	3.37	0.94	0.48	0.43	0.39	0.35	0.42	0.49	0.56	0.83	2.23	3.63	4	4.37	4.75	7.89	11.04	14.19	13.93	13.66	13.4	13.83	14.26	14.7	14.33	13.96	13.59	13.27	12.96	12.64	
1305.0	10.91	6.23	3.55	0.87	1.87	2.88	3.88	3.3	0.73	0.85	0.62	0.39	0.16	0.32	0.49	0.65	0.88	2.01	3.34	3.79	4.24	4.7	7.83	10.97	14.1	14.07	14.04	14	14.09	14.17	14.26	14.03	13.8	13.58	13.26	12.95	12.64	
1405.0	10.91	6.11	3.32	0.53	1.67	2.82	3.97	3.24	0.51	0.22	0.5	0.38	0.04	0.22	0.48	0.74	0.52	1.79	3.05	3.58	4.11	4.65	7.77	10.9	14.02	14.18	14.34	14.49	14.27	14.04	13.82	13.74	13.66	13.59	13.27	12.95	12.64	
1505.0	10.91	6.17	3.43	0.69	1.81	2.93	4.06	3.18	0.3	0.58	0.98	0.37	0.23	0.12	0.48	0.83	0.37	1.57	2.76	3.37	3.97	4.58	7.7	10.82	13.94	14.04	14.14	14.24	13.95	13.66	13.37	13.46	13.55	13.64	13.31	12.97	12.64	
1605.0	10.91	6.22	3.53	0.85	1.95	3.05	4.15	3.11	0.08	0.95	1.16	0.37	0.42	0.02	0.47	0.92	0.21	1.34	2.48	3.15	3.83	4.51	7.63	10.74	13.85	13.9	13.94	13.98	13.63	13.28	12.93	13.44	13.69	13.34	12.99	12.64		
1705.0	10.91	6.27	3.64	1.01	2.08	3.16	4.24	3.07	0.11	1.28	1.31	0.33	0.64	0.1	0.44	0.97	0.08	1.13	2.19	2.94	3.69	4.44	7.55	10.66	13.77	13.75	13.74	13.72	13.31	12.9	12.99	13.33	13.75	13.38	13.01	12.64	12.64	
1805.0	10.91	6.33	3.75	1.17	2.15	3.13	4.12	2.97	0.18	1.44	1.38	0.36	0.81	0.05	0.19	0.22	0.55	0.77	2.8	3.47	4.28	5.03	7.48	10.58	13.69	13.61	13.54	13.47	12.99	12.52	12.05	12.63	13.22	13.88	13.41	13.02	12.64	
1905.0	10.91	6.38	3.85	1.3	2.16	3.1	3.84	2.76	0.32	1.39	1.68	0.27	1.53	0.71	1.12	0.94	0.09	0.76	1.61	2.51	3.41	4.31	7.41	10.5	13.6	13.47	13.38	13.21	12.68	12.14	11.61	12.36	13.31	13.85	13.45	13.04	12.64	
2005.0	10.91	6.44	3.96	1.49	2.18	3.27	3.56	1.56	0.45	1.45	1.97	0.57	1.58	1.01	1.04	0.93	0.18	0.57	1.32	2.29	3.27	4.24	7.33	10.43	13.52	13.33	13.14	12.95	12.44	11.93	11.42	12.25	13.08	13.9	13.48	13.06	12.64	
2105.0	10.91	6.49	4.07	1.65	2.19	3.27	3.74	3.28	0.35	1.55	2.31	0.86	0.78	0.24	0.31	0.2	0.92	2.27	0.38	1.03	2.08	3.12	4.17	7.26	10.35	13.44	13.19	12.94	12.7	12.74	11.79	11.33	12.21	13.08	13.96	13.52	13.08	12.64
2205.0	10.91	6.54	4.18	1.81	2.21	3.26	3	1.14	0.71	2.57	2.75	1.06	0.88	1.62	0.36	0.39	0.35	0.2	0.75	1.86	2.98	4.1	7.19	10.27	13.35	13.05	12.74	12.44	12.04	11.64	11.24	12.16	13.09	14.01	13.55	13.09	12.64	
2305.0	10.91	6.6	4.28	1.97	2.22	3.27	3.72	0.94	0.84	2.64	3.64	1.34	1.33	1.92	0.52	0.69	0.38	0.13	0.64	1.77	2.8	4.03	7.1	10.16	13.23	12.88	12.53	12.18	11.84	11.49	11.15	12.12	13.09	14.06	13.59	13.01	12.64	
2405.0	10.91	6.65	4.39	2.13	2.25	3.34	3.44	2.73	0.98	2.69	3.53	1.62	1.37	2.27	0.67	0.88	0.39	0.1	0.58	1.71	2.84	3.97	6.9	9.83	12.77	12.49	12.21	11.93	11.64	11.35	11.05	12.07	13.09	14.11	13.62	13.14	12.64	
2505.0	10.91	6.7	4.5	2.29	2.25	3.21	3.16	0.53	1.11	2.74	3.42	1.9	1.42	2.22	0.53	0.83	0.86	0.4	0.06	0.52	1.65	2.77	3.9	6.7	9.5	12.31	12.1	11.88	11.67	11.43	11.2	10.96	12.03	13.1	14.17	13.66	13.15	12.64
2605.0	10.91	6.76	4.6	2.45	2.26	3.07	1.88	0.32	1.24	2.8	3.31	2.18	1.467	2.83	0.99	0.85	0.41	0.03	0.46	1.58	2.71	3.83	6.5	9.48	11.85	11.7	11.56	11.41	11.23	11.05	10.87	11.99	13.1	14.22	13.69	13.16	12.64	
2705.0	10.91	6.81	4.71	2.61	2.28	1.94	1.61	0.12	0.37	2.86	3.2	2.46	3.12	1.13	1.15	0.83	0.42	0.01	0.4	1.52	2.64	3.76	6.3	9.85	11.39	11.31	11.23	11.16	11.03	10.91	10.78	11.94	13.11	14.27	13.73	13.18	12.64	
2805.0	10.91	6.86	4.82	2.77	2.29	1.81	1.33	0.29	0.35	2.92	3.09	2.74	2.57	3.44	1.31	0.82	0.43	0.05	0.34	1.46	2.58	3.69	6.4	8.52	10.93	10.92	10.91	10.83	10.76	10.69	11.07	13.11	14.32	13.76	13.2	12.64		
2905.0	10.91	6.92	4.93	2.93	2.3	1.68	1.05	0.29	0.64	2.98	3.02	3.02	3.01	3.74	1.47	0.81	0.44	0.08	0.28	1.41	2.53	3.66	5.93	8.2	10.47	10.36	10.65	10.74	10.69	10.65	10.6	11.71	12.82	13.93	13.5	13.07	12.64	
3005.0	10.91	7.01	5.11	3.21	2.4	1.58	0.77	0.5	0.77	3.04	0.13	0.3	0.46	0.04	1.63	0.99	0.45	0.12	0.22	1.37	2.51	3.66	5.78	7.89														

Raw Data (ANT3@6G 6500MHz)

Theta Angle (°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	
Phi Angle (°)	0	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8
0.1	0.16	1.24	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4.0	4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8
5.1	3.63	3.66	3.69	3.79	3.89	3.99	4.09	4.19	4.29	4.39	4.49	4.59	4.69	4.79	4.89	4.99	5.09	5.19	5.29	5.39	5.49	5.59	5.69	5.79	5.89	5.99	6.09	6.19	6.29	6.39	6.49	6.59	6.69	6.79	6.89	6.99	7.09	
10.1	3.86	4.12	4.38	4.64	4.90	5.16	5.42	5.68	5.94	6.20	6.46	6.72	6.98	7.24	7.50	7.76	8.02	8.28	8.54	8.80	9.06	9.32	9.58	9.84	10.10	10.36	10.62	10.88	11.14	11.40	11.66	11.92	12.18	12.44	12.70	12.96	13.22	
15.1	4.09	4.58	5.07	5.56	6.05	6.54	7.03	7.52	8.01	8.50	8.99	9.48	9.97	10.46	10.95	11.44	11.93	12.42	12.91	13.40	13.89	14.38	14.87	15.36	15.85	16.34	16.83	17.32	17.81	18.30	18.79	19.28	19.77	20.26	20.75	21.24	21.73	
20.1	4.32	5.04	5.76	6.48	7.20	7.92	8.64	9.36	10.08	10.80	11.52	12.24	12.96	13.68	14.40	15.12	15.84	16.56	17.28	18.00	18.72	19.44	20.16	20.88	21.60	22.32	23.04	23.76	24.48	25.20	25.92	26.64	27.36	28.08	28.80	29.52	30.24	
25.1	4.56	4.92	5.38	5.83	6.28	6.73	7.18	7.63	8.08	8.53	8.98	9.43	9.88	10.33	10.78	11.23	11.68	12.13	12.58	13.03	13.48	13.93	14.38	14.83	15.28	15.73	16.18	16.63	17.08	17.53	17.98	18.43	18.88	19.33	19.78	20.23		
30.1	4.81	4.62	5.14	5.66	6.18	6.70	7.22	7.74	8.26	8.78	9.30	9.82	10.34	10.86	11.38	11.90	12.42	12.94	13.46	13.98	14.50	15.02	15.54	16.06	16.58	17.10	17.62	18.14	18.66	19.18	19.70	20.22	20.74	21.26	21.78	22.30		
35.1	5.06	4.33	4.69	5.18	5.67	6.16	6.65	7.14	7.63	8.12	8.61	9.10	9.59	10.08	10.57	11.06	11.55	12.04	12.53	13.02	13.51	14.00	14.49	14.98	15.47	15.96	16.45	16.94	17.43	17.92	18.41	18.90	19.39	19.88	20.37	20.86		
40.1	5.31	4.03	4.45	4.97	5.49	6.01	6.53	7.05	7.57	8.09	8.61	9.13	9.65	10.17	10.69	11.21	11.73	12.25	12.77	13.29	13.81	14.33	14.85	15.37	15.89	16.41	16.93	17.45	17.97	18.49	19.01	19.53	20.05	20.57	21.09	21.61		
45.1	5.56	3.75	4.38	4.91	5.44	5.97	6.50	7.03	7.56	8.09	8.62	9.15	9.68	10.21	10.74	11.27	11.80	12.33	12.86	13.39	13.92	14.45	14.98	15.51	16.04	16.57	17.10	17.63	18.16	18.69	19.22	19.75	20.28	20.81	21.34	21.87		
50.1	5.81	3.52	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
55.1	6.06	3.27	4.34	4.87	5.40	5.93	6.46	6.99	7.52	8.05	8.58	9.11	9.64	10.17	10.70	11.23	11.76	12.29	12.82	13.35	13.88	14.41	14.94	15.47	16.00	16.53	17.06	17.59	18.12	18.65	19.18	19.71	20.24	20.77	21.30	21.83		
60.1	6.31	3.02	4.29	4.82	5.35	5.88	6.41	6.94	7.47	8.00	8.53	9.06	9.59	10.12	10.65	11.18	11.71	12.24	12.77	13.30	13.83	14.36	14.89	15.42	15.95	16.48	17.01	17.54	18.07	18.60	19.13	19.66	20.19	20.72	21.25	21.78		
65.1	6.56	2.73	4.31	4.84	5.37	5.90	6.43	6.96	7.49	8.02	8.55	9.08	9.61	10.14	10.67	11.20	11.73	12.26	12.79	13.32	13.85	14.38	14.91	15.44	15.97	16.50	17.03	17.56	18.09	18.62	19.15	19.68	20.21	20.74	21.27	21.80		
70.1	6.81	2.48	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
75.1	7.06	2.23	4.34	4.87	5.40	5.93	6.46	6.99	7.52	8.05	8.58	9.11	9.64	10.17	10.70	11.23	11.76	12.29	12.82	13.35	13.88	14.41	14.94	15.47	16.00	16.53	17.06	17.59	18.12	18.65	19.18	19.71	20.24	20.77	21.30	21.83		
80.1	7.31	1.94	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
85.1	7.56	1.69	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
90.1	7.81	1.44	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
95.1	8.06	1.19	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
100.1	8.31	0.94	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
105.1	8.56	0.69	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
110.1	8.81	0.44	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
115.1	9.06	0.19	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
120.1	9.31	0.00	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
125.1	9.56	0.00	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
130.1	9.81	0.00	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
135.1	10.06	0.00	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
140.1	10.31	0.00	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
145.1	10.56	0.00	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
150.1	10.81	0.00	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
155.1	11.06	0.00	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37	13.90	14.43	14.96	15.49	16.02	16.55	17.08	17.61	18.14	18.67	19.20	19.73	20.26	20.79	21.32	21.85		
160.1	11.31	0.00	4.36	4.89	5.42	5.95	6.48	7.01	7.54	8.07	8.60	9.13	9.66	10.19	10.72	11.25	11.78	12.31	12.84	13.37																		

The logo for SERCOMM, featuring the word in a bold, blue, sans-serif font. The letters are closely spaced, and the 'M' has a distinctive shape with a vertical stroke on its right side.

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