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Release Control Record

Issue No.	Description	Date Issued
ORBCKS-WTW-P23110556	Original release	2023.12.21
ORBCKS-WTW-P23110556 R1	Add Variant Model No.	2023.12.21
ORBCKS-WTW-P23110556 R2	Correct Antenna Type	2023.12.26
ORBCKS-WTW-P23110556 R3	Add "Correlated Signals DG Calculation" in 2.10 table	2024.1.25

1 EUT Antenna System Description

1.1 Antenna Information

Frequency Range (GHz)	Brand Name	Model Name	Antenna Type	Connector Type	Antenna Position	RF Chain NO.
2.4~2.4835	Calix	GS5229XG	Dipole	ipex(MHF)	2G1	Ant1
2.4~2.4835			Dipole	ipex(MHF)	2G2	Ant2
2.4~2.4835			Dipole	ipex(MHF)	-	-
2.4~2.4835			Dipole	ipex(MHF)	-	-
5.15~5.25	Calix	GS5229XG	Dipole	ipex(MHF)	5G1	Ant1
5.25~5.35			Dipole	ipex(MHF)		
5.15~5.25			Dipole	ipex(MHF)	5G2	Ant2
5.25~5.35			Dipole	ipex(MHF)		
5.15~5.25			Dipole	ipex(MHF)	5G3	Ant3
5.25~5.35			Dipole	ipex(MHF)		
5.15~5.25			Dipole	ipex(MHF)	5G4	Ant4
5.25~5.35			Dipole	ipex(MHF)		
5.47~5.725	Calix	GS5229XG	Dipole	ipex(MHF)	5G1	Ant1
5.725~5.85			Dipole	ipex(MHF)		
5.47~5.725			Dipole	ipex(MHF)	5G2	Ant2
5.725~5.85			Dipole	ipex(MHF)		
5.47~5.725			Dipole	ipex(MHF)	5G3	Ant3
5.725~5.85			Dipole	ipex(MHF)		
5.47~5.725			Dipole	ipex(MHF)	5G4	Ant4
5.725~5.85			Dipole	ipex(MHF)		

1.2 Antenna Location (Configuration and RF Chains)

Please refer to another document - Test Setup and EUT antenna port photo. (Appendix B.)

2 Antenna Measurement

2.1 Antenna Measurement Chamber

Chamber Type	Chamber Size
Fully Anechoic Chamber	Length: 7.32 m Width: 3.66 m Height: 3.51 m

Type of Equipment	Model Number	Serial Number
ETS Anechoic Chamber (OTA3-HY)	AMS-8500	CT0000411-1132
Multi-Axis Positioning System	ETS 2090-OPTI	00086248

Note: The test was performed in CITA OTA distributed-axes system.

2.2 Reference Standard

ANSI 63.10-2013 clause 13
IEEE std. 149-2021
KDB 662911 D01

2.3 Block diagram of antenna test set-up

In far field chamber, rotation around theta axis corresponds to the elevation angle θ and around the phi axis corresponds to the azimuth angle ϕ . When measuring a 3D radiation pattern, the rotation table rotates around the theta from 0° to 180° and the rotation arm revolves around the phi axis between 0° and 360° . The vertical E field actually corresponds to the horizontal polarization and vice versa..

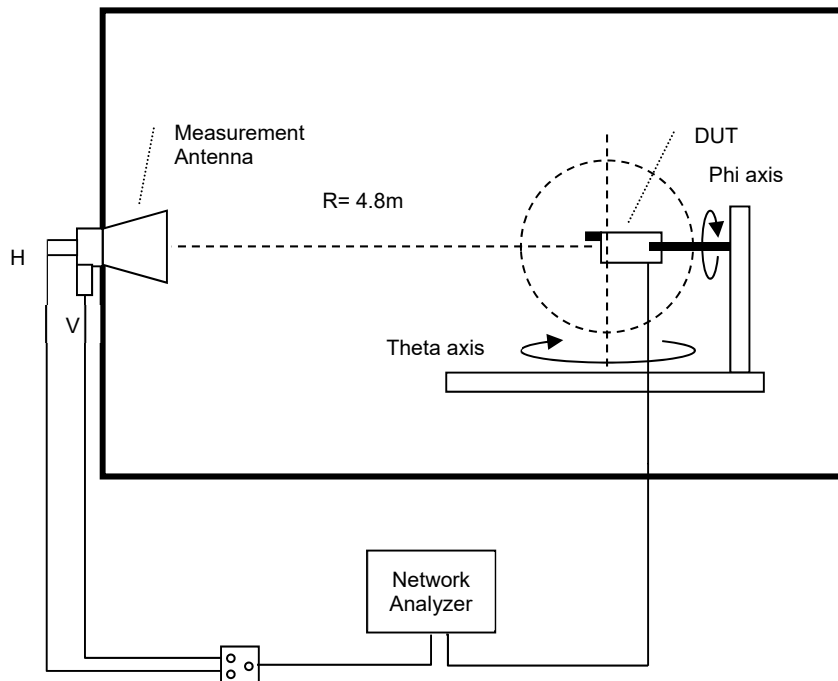


Figure 1. Antenna Pattern Test System.

2.4 Block diagram of calibration

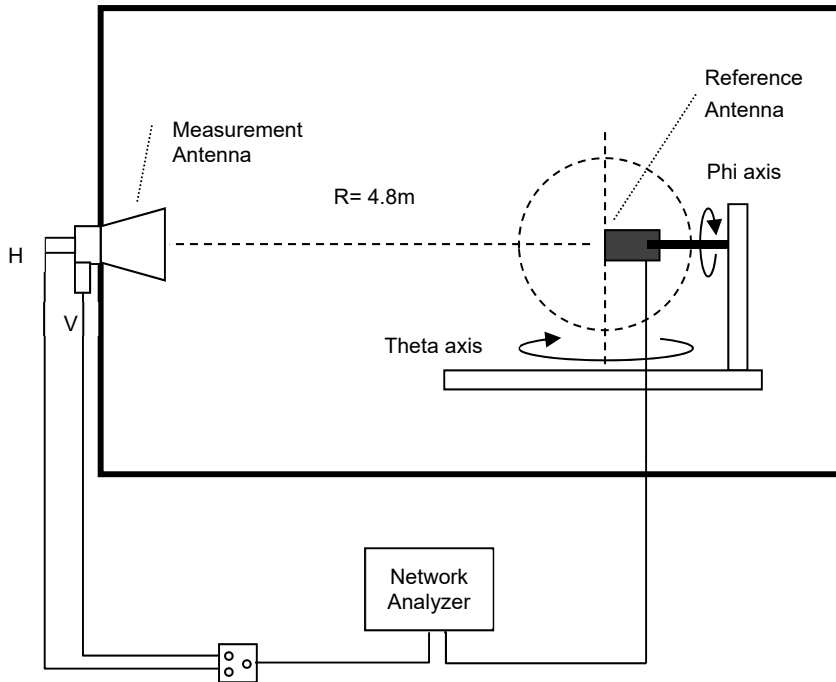
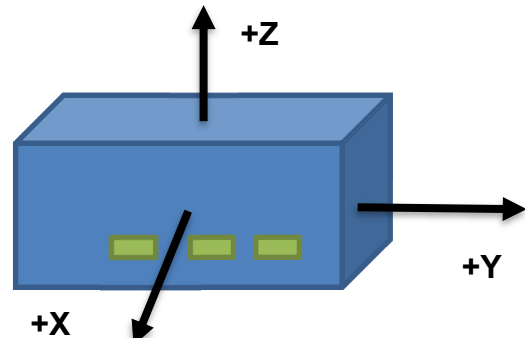


Figure 2. Calibration configuration.

2.5 Measurement Setup

Chamber Placement
To minimize the physical volume occupied by the EUT during testing, the center of rotation shall be the three-dimensional geometric center of the EUT and not the antenna
Positioning an Integrated Device Relative to the Chamber Coordinate System
The reference plane for the EUT is defined as the plane on which the base of the EUT sits. This plane will be normal to the phi axis of the chamber.
Before placing the EUT in the chamber, place the integrated device on a level surface and measure the height, width and depth (H, W, D) of the device to determine the center of each (mark with tape if need).
The center of the height, width and depth of the device shall be located at the origin of the chamber coordinate system.


2.6 EUT Operation mode

Band	Modulation Mode	CDD mode	Beamforming mode
2.4GHz	802.11b	Nss1	Not Support
	802.11g	Nss1	Not Support
	802.11n(HT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11n(HT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11n(VHT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11n(VHT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
5GHz	802.11a	Nss1	Not Support
	802.11n(HT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11n(HT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT80)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ac(VHT160)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE20)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE40)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE80)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4
	802.11ax(HE160)	Nss1 / Nss2 / Nss3 / Nss4	Nss1 / Nss2 / Nss3 / Nss4

Note: The Nss 1 mode for both 2.4GHz, 5GHz bands for final testing.

Band	Modulation Mode	Ant1	Ant2	Ant3	Ant4
2.4GHz	802.11b	TX/RX	TX/RX	TX/RX	TX/RX
	802.11g	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(VHT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(VHT40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE40)	TX/RX	TX/RX	TX/RX	TX/RX
5GHz	802.11a	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT80)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT160)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE20)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE40)	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE80)	TX/RX	TX/RX	TX/RX	TX/RX
802.11ax(HE160)	TX/RX	TX/RX	TX/RX	TX/RX	

2.7 Test Setup Diagram for EUT

Please refer to the documents "ORBCKS-WTW-P23110556_Calix_u6XG GS5229XG_Antenna measurement Report_APPENDIX"



2.8 Test Instruments

TYPE OF EQUIPMENT	MODEL NUMBER	SERIAL NUMBER	DATE OF CALIBRATION	DUE DATE OF CALIBRATION	CALIBRATION CYCLE
(OTA3-HY) ETS Anechoic Chamber	AMS-8500	CT0000411-1132	N/A	N/A	N/A
Multi-Axis Positioning System	ETS 2090-OPTI	00086248	N/A	N/A	N/A
Horn Antenna	ETS 3164-08	00157567	N/A	N/A	N/A
Switch Control	Agilent 3499A	MY42005285	N/A	N/A	N/A
Network Analyzer	E5071C	MY46104190	2023/5/29	2024/5/28	12 months
Test Software	ETS-Lindgren EMQuest V1.14 build 31654	1281	N/A	N/A	N/A

Note 1: The test was performed in CITA OTA distributed-axes system.

Note 2: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2.9 Test Procedure

1. The Antenna Gain Test is performed according to The ANSI/IEEE Std 149 12.3.1 Antenna Gain (Small size (< 42cm) Linear Polarization Antennas), using a two-axis support device and one fixed measurement antenna. The EUT is positioned along the required MAPS centerline fixture holder. The EUT is then stepped between 0 and 180 degrees along the theta axis in 15-degree increments. At each theta position, the phi axis is stepped from 0-360 degrees in 15-degree increments. Data is recorded using the Network analyzer for both theta and phi polarizations at each position. Depending on the protocol, an appropriate filter is used in the EMQuest software to process the data. Upon completion of the test, test results (angular dependent EIRP) is calculated at each measurement point and the required value is automatically calculated. This test procedure is repeated for frequency and configuration as required.
2. Repeat step 1 and measures all of antenna gain for each Phi and Theta polarization for all antenna angles.
3. Considering each combination of phi and theta for all angles of each antenna, Directional Gain are calculated according to the FCC KDB662911 D01 d) (i) or e) (ii) formula.
4. Investigate composite antenna gain at all angles by program and determine maximum gain and Phi/Theta position (Direction gain is calculated for each angle then maximum gain is selected.).



2.10 Summary Test Result

Tested By	Leo Chen
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Individual Antenna Maximum Peak Gain:

Frequency Band (GHz)	2.4	2.45	2.5	5.15	5.25	5.35	5.5	5.65	5.85
Ant. 1 (dBi)	3.54	3.69	3.00	2.65	3.96	3.60	3.32	3.90	3.06
Polarization	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta
Axis: Theta(°)	90	90	105	90	90	105	120	105	60
Axis: Phi(°)	135	135	195	330	285	285	345	285	285
Ant. 2 (dBi)	3.63	3.48	2.82	4.63	4.28	3.71	5.02	4.94	4.27
Polarization	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta
Axis: Theta(°)	105	105	105	90	75	75	90	90	75
Axis: Phi(°)	30	45	30	300	300	300	300	300	300
Ant. 3 (dBi)	-	-	-	3.06	2.25	2.09	1.74	1.91	3.57
Polarization	-	-	-	Theta	Theta	Theta	Theta	Theta	Theta
Axis: Theta(°)	-	-	-	75	75	75	75	75	75
Axis: Phi(°)	-	-	-	45	45	45	75	75	75
Ant. 4 (dBi)	-	-	-	3.18	2.91	3.45	3.50	4.60	3.72
Polarization	-	-	-	Phi	Phi	Phi	Phi	Phi	Phi
Axis: Theta(°)	-	-	-	75	75	75	75	30	75
Axis: Phi(°)	-	-	-	240	240	240	240	90	240

Maximum Directional Gain (Maximum Direction Angle and Value):

Frequency Band (GHz)	2.4	2.45	2.5	5.15	5.25	5.35	5.5	5.65	5.85
Ant. 1 (dBi)	3.03	3.65	2.57	2.39	2.21	2.11	2.22	2.66	-1.02
Ant. 2 (dBi)	1.68	1.93	0.80	4.63	3.61	3.04	5.02	4.94	1.05
Ant. 3 (dBi)	-	-	-	-1.73	-2.90	-3.19	-1.18	0.48	1.95
Ant. 4 (dBi)	-	-	-	-13.84	-13.26	-10.11	-8.34	-12.42	-11.61
Polarization	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta	Theta
Axis: Theta(°)	90	90	90	90	90	90	90	90	90
Axis: Phi(°)	120	120	120	300	300	300	300	300	75
Correlated Signals DG Calculation $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}]$									
DG (dBi) [1SS]	5.39	5.84	4.74	6.11	5.43	5.34	6.71	6.89	4.94

Note:

- ◆ The individual antenna gain and directional gain are by measurement as indicated in above table. For devices transmitter supports MIMO and use same antenna at multiple antenna ports. The direction gain values are follow FCC KDB 662911 D01 into calculation.
- ◆ The applicable limit is subjected to FCC Part 15 regulation and devices transmitter design/specification (i.e., SISO or MIMO etc.). Detail of conformity limit to be described in EUT FCC test reports.

APPENDIX A – Detail Test Data Information

A.1 Radiated Directional Gain

Ant.	No.1																								
Freq. (MHz)	2400																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	-16.26	-12.81	-9.52	-7.36	-6.17	-5.73	-5.85	-6.26	-7.31	-9.41	-12.82	-17.38	-16.11	-11.37	-8.36	-6.52	-5.35	-4.85	-4.97	-5.7	-7.19	-9.87	-14.58
θ (15°)	-13.01	-10.57	-8.88	-8.29	-8.32	-8.73	-9.53	-10.65	-11.74	-12.08	-11.97	-11.4	-9.91	-7.7	-5.64	-3.77	-3.31	-3.51	-4.32	-5.88	-8.58	-13.76	-25.33	-18.61	-13.01
θ (30°)	-7.68	-5.06	-3.75	-3.59	-4.71	-7.44	-11.51	-14.63	-14.97	-12.92	-9.72	-7.54	-6.4	-5.41	-4.28	-3.58	-3.52	-4.06	-5.21	-7.19	-10.38	-15.37	-22.07	-15.48	-7.68
θ (45°)	-3.27	-0.9	-0.72	-2.29	-5.87	-11.79	-10.66	-6.72	-6.34	-9.66	-12.53	-8.25	-5.55	-4.04	-3.43	-3.67	-4.13	-4.52	-5.41	-6.74	-9.01	-11.9	-12.8	-9.93	-3.27
θ (60°)	-1.99	0.15	-0.26	-2.73	-7.12	-10.54	-3.15	0.26	1.5	1.27	-0.59	-3.15	-1.24	0.73	0.52	-0.6	-2.03	-2.72	-4.02	-5.35	-5.2	-6.72	-10.62	-9.43	-1.99
θ (75°)	-0.51	0.59	-2.1	-4.74	-8.13	-4.28	-0.23	1.59	2.08	1.27	0	0.87	2.11	2.95	2.62	0.36	-0.86	-1.98	-3.27	-4.49	-4.95	-5.57	-5.91	-4.71	-0.51
θ (90°)	0.75	1.14	-1.84	-1.76	-2.83	-3.82	-0.12	1.99	3.03	[3.54]	2.48	-0.28	0.92	1.86	1.71	0.79	-2.82	-7.13	-7.65	-5.57	-3.62	-2.56	-2.1	-1.3	0.75
θ (105°)	-3.01	-2.18	-3.43	-3.98	-8.03	-8.09	-2.99	-1.26	-1.27	-1.73	-0.48	1.55	2.41	2.89	3.27	1.95	-0.92	-5.13	-10.53	-8.03	-4.01	-2.78	-3.98	-4.92	-3.01
θ (120°)	-1.37	-1	-2.94	-4.05	-6.25	-9.36	-3.41	-0.24	0.67	-0.29	-3.25	-4.52	-2.38	-1.38	-0.6	0	-1.15	-5.01	-11.3	-10.54	-3.91	-1.11	-1.66	-3.01	-1.37
θ (135°)	-2.84	-1.25	-0.94	-2.35	-7.58	-19.64	-8.49	-5.24	-4.58	-3.81	-1.78	-0.46	-0.8	-2.13	-2.85	-2.97	-3.51	-4.79	-7.83	-16.21	-13.9	-9.45	-8.46	-6.8	-2.84
θ (150°)	0.58	1.12	0.35	-2.55	-8.59	-10.37	-5.73	-5.04	-9.59	-17.02	-3.11	0.87	1.73	0.77	-0.79	-1.98	-3.73	-7.14	-9.96	-14.36	-18.92	-14.99	-8.35	-2.59	0.58
θ (165°)	0.68	0.45	-0.97	-4.16	-10.64	-21.41	-11.95	-10.58	-13.01	-17.43	-11.13	-7.46	-6.61	-7.2	-8.17	-11.45	-14.39	-15.68	-14.52	-11.45	-7.47	-4.3	-1.93	-0.58	0.68
θ (180°)	-5.74	-5.44	-5.61	-6.36	-7.77	-9.96	-13.28	-19.72	-21.37	-12.88	-8.81	-6.49	-5.13	-4.61	-5.21	-6.05	-8.72	-11.51	-15.71	-28.83	-19.42	-13.04	-9.79	-7.52	-5.74
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
		θ (0°)	-5.86	-6.62	-8.43	-11.54	-16.51	-23.73	-18.59	-12.49	-9.01	-6.9	-5.7	-5.22	-5.49	-6.66	-8.97	-13.58	-26.3	-19.1	-12.08	-8.71	-6.58	-5.34	-4.74
θ (15°)	-10.43	-13.73	-19.31	-22.87	-17.3	-13.59	-11.37	-9.89	-8.75	-7.61	-6.46	-5.51	-5.05	-5.21	-6.55	-9.09	-15.69	-24.4	-13.45	-9.26	-7.02	-6	-5.93	-6.45	-10.43
θ (30°)	-8.75	-10.64	-15.31	-15.49	-10.35	-7.94	-7.8	-9.02	-10.18	-9.64	-7.19	-4.59	-3.05	-2.89	-3.73	-5.68	-8.6	-13.66	-23.64	-17.82	-13.47	-11.46	-9.93	-8.62	-8.75
θ (45°)	-2.96	-6.56	-23.34	-10.64	-6.14	-5.18	-5.62	-7.16	-9.42	-10.04	-6.83	-3.37	-1.75	-1.86	-3.61	-7.53	-13.87	-20.92	-18.44	-15.91	-13.33	-10.7	-6.56	-3.88	-2.96
θ (60°)	-0.54	-4.16	-15.55	-8.69	-6.98	-6.04	-6.05	-7.9	-11.46	-15.02	-13.34	-4.94	-0.77	-1.65	-4.89	-9.93	-13.27	-17.68	-21.33	-14.28	-11.83	-8.08	-2.99	0.09	-0.54
θ (75°)	-1.33	-5.67	-10.15	-9.58	-9.76	-12.69	-16.54	-16.99	-14.36	-16.31	-17.36	-6.42	-2.45	-2.06	-7.09	-18.01	-26.9	-21.91	-15.32	-9.42	-4.93	-1.42	0.75	[0.97]	-1.33
θ (90°)	-7.13	-7.82	-5.53	-4.73	-5.77	-7.96	-12.42	-17.87	-19.88	-11.42	-11.64	-11.54	-3.97	-4.17	-5.44	-10.34	-17.19	-14.83	-11.27	-11.28	-7.56	-3.06	-1.01	-2.26	-7.13
θ (105°)	-8.76	-11.29	-7.64	-4.37	-4.34	-8.74	-16.4	-8.49	-5.22	-5.57	-9.24	-19.8	-6.72	-4.2	-10.22	-14.94	-13.88	-15.48	-17.42	-9.95	-3.85	-1.66	-2.76	-5.6	-8.76
θ (120°)	-4.74	-6.94	-7.14	-4.7	-4.05	-6.56	-16.6	-7.75	-2.66	-1.89	-5.38	-21.46	-11.79	-6.44	-6.85	-20.32	-12.85	-13.36	-13.72	-6.02	-1.77	-1.07	-2.26	-3.82	-4.74
θ (135°)	-6.71	-7.74	-5.44	-2.11	-1.2	-3.64	-12.98	-10.85	-3.59	-2	-5.01	-12.09	-6.66	-6.55	-10.94	-18.83	-15.22	-10.21	-8.09	-5.52	-4.46	-5.57	-6.83	-6.31	-6.71
θ (150°)	-9.05	-10.13	-5.18	-1.61	-0.5	-1.71	-6.38	-16.38	-5.94	-2.61	-3.56	-8.55	-9.44	-6.56	-8.08	-11.36	-12.04	-11.63	-10.88	-10.37	-10.51	-8.84	-6.47	-5.15	-9.05
θ (165°)	-16.58	-11.44	-5.63	-2.83	-1.88	-2.58	-5.15	-9.89	-17.15	-25.19	-23.27	-15.34	-11.37	-9.96	-9.97	-14.02	-19.2	-12.7	-8.5	-5.92	-4.49	-4.19	-5.16	-7.15	-16.58
θ (180°)	-14.73	-21.47	-26.14	-15.43	-11.08	-8.77	-7.61	-6.88	-6.47	-6.32	-6.81	-8.29	-11.47	-18.64	-21.58	-12.56	-8.98	-6.81	-5.41	-4.96	-5.8	-6.08	-7.47	-9.8	-14.73



Ant.	No.1																								
Freq (MHz)	2450																								
Polarity	Theta																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	-11.41	-11.76	-11.69	-10.76	-9.38	-8.45	-7.88	-7.59	-7.75	-8.43	-9.42	-10.32	-10.98	-11.37	-10.97	-9.81	-8.47	-7.4	-6.86	-6.84	-7.37	-8.33	-9.8	-13.63
θ (15°)	-13.78	-11.2	-9.8	-9.43	-9.89	-10.26	-9.83	-8.89	-7.75	-6.82	-6.36	-6.58	-7.36	-8.41	-9.12	-8.69	-7.26	-6.51	-6.69	-7.99	-10.48	-15.08	-23.04	-19.97	-13.78
θ (30°)	-4.94	-3.09	-2.39	-3.09	-5.05	-8	-10.83	-11.24	-9.62	-6.92	-4.38	-3.25	-3.62	-4.94	-6.04	-6.43	-6.59	-7.23	-8.7	-11.61	-16.8	-25.5	-18.74	-10.71	-4.94
θ (45°)	-1.92	-0.16	-0.36	-2.32	-6.19	-13.14	-12.36	-7.97	-7.63	-9.69	-7.16	-4.72	-4.99	-5.85	-5.86	-5.91	-6.03	-6.37	-7.12	-7.6	-7.36	-7.23	-7.27	-6.18	-1.92
θ (60°)	-2.81	-0.26	-0.01	-2.04	-5.93	-14.09	-4.49	-0.23	1.04	0.23	-2.69	-4.58	-2.75	-2.22	-2.78	-2.95	-3.38	-4.42	-5.95	-5.21	-3.79	-4.35	-6.89	-8.06	-2.81
θ (75°)	-1.57	0.89	-1.12	-4.24	-9.99	-6.4	-0.15	2.22	2.67	1.44	-0.63	0.38	1.64	1.94	1.44	0	-0.4	-1.96	-3.31	-2.81	-2.01	-3.05	-5.93	-6.77	-1.57
θ (90°)	-0.5	0.86	-1.29	-2.82	-4.71	-7.12	-0.41	2.52	3.65	[3.69]	2.05	-0.06	1.42	2.11	1.6	-0.19	-3.61	-4.45	-3.07	-1.76	-0.55	-0.47	-1.31	-2.24	-0.5
θ (105°)	-2.31	-0.68	-2.38	-4.25	-9.97	-10.56	-2.75	-0.16	0.23	-0.75	-0.87	1.65	3.15	3.53	3.23	0.79	-2.91	-6.31	-5.73	-2.73	-0.82	-0.65	-2.43	-4.13	-2.31
θ (120°)	-3.01	-2.78	-5.43	-7.42	-9.24	-12.58	-4.81	-1.18	-0.05	-0.59	-2.65	-2.92	-0.7	0.67	1.27	0.65	-2.46	-9.35	-11.34	-4.06	-0.59	0.9	0.13	-2.5	-3.01
θ (135°)	-4.81	-2.55	-2.16	-3.63	-9.03	-26.24	-10.04	-6.57	-6.18	-6	-3.37	-1.03	-0.61	-1.35	-1.49	-1.53	-2.8	-5.95	-14.67	-12.21	-5.68	-4.68	-7.13	-9.13	-4.81
θ (150°)	0.42	0.86	0.06	-2.52	-7.79	-14.52	-10.57	-9.6	-16.19	-12.92	-3.12	0.81	2.17	1.93	0.89	-0.5	-2.91	-6.87	-11.78	-16.19	-13.41	-11.64	-7.71	-2.38	0.42
θ (165°)	-0.05	0.05	-0.81	-3.06	-7.3	-16.21	-22.06	-14.14	-13.51	-18.07	-22.72	-12.81	-9.33	-8.09	-8.12	-9.63	-10.96	-11.19	-10.88	-9.91	-7.91	-5.41	-3.02	-1.51	-0.05
θ (180°)	-3.24	-3.41	-4.13	-5.55	-7.81	-11.69	-20.52	-21.4	-11.55	-7.45	-5.05	-3.59	-2.81	-2.59	-3.23	-4.36	-6.86	-11.61	-20.75	-21.44	-11.97	-7.97	-5.64	-4.05	-3.24
Polarity	Phi																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	-7.61	-7.52	-7.59	-8.01	-8.77	-9.78	-10.85	-11.27	-10.81	-9.61	-8.34	-7.3	-6.72	-6.64	-7.06	-7.93	-9.33	-11.53	-14.73	-16.3	-13.16	-10.24	-8.52	-6.96
θ (15°)	-10.75	-13.27	-16.64	-20.09	-20.56	-19.68	-18.81	-17.41	-14.77	-11.76	-8.92	-6.69	-5.07	-4.6	-5.25	-6.03	-8.79	-13.17	-22.03	-17.74	-11.37	-8.61	-7.64	-7.81	-10.75
θ (30°)	-10.63	-14.22	-16.71	-11.22	-8.38	-7.61	-8.44	-10.7	-13.43	-14.41	-11.93	-7.77	-4.74	-3.63	-3.98	-5.4	-8.09	-12.97	-19.05	-16.26	-13.17	-11.69	-10.31	-9.19	-10.63
θ (45°)	-6.32	-10.91	-20.47	-8.15	-5.29	-4.89	-5.77	-8.14	-12.07	-14.78	-10.7	-5.63	-2.96	-2.36	-3.84	-7.57	-12.01	-17.31	-28.68	-21.39	-16.35	-14.89	-10.99	-7.68	-6.32
θ (60°)	-4.01	-8.77	-11.31	-4.78	-4.16	-4.62	-6.02	-9.51	-17.2	-27.92	-20.17	-7.5	-2.7	-3.08	-5.3	-7.88	-11.42	-18.64	-18.04	-13.62	-12.17	-10.09	-6.36	-3.33	-4.01
θ (75°)	-5.3	-11.48	-8.27	-4.99	-4.73	-6.92	-11.65	-19.01	-13.71	-11.54	-16.37	-6.65	-2.88	-3.55	-9.28	-14.46	-23.49	-20.1	-14.29	-9.53	-5.92	-3.33	-1.91	-2.09	-5.3
θ (90°)	-9.24	-8.91	-4.89	-3.18	-3.58	-4.77	-7.91	-13.86	-23.56	-12.17	-11.21	-11.13	-3.87	-3.9	-7.35	-15.28	-19.35	-16.72	-11.97	-10.43	-8.34	-5.13	-3.29	-4.56	-9.24
θ (105°)	-20.47	-22.58	-8.03	-3.93	-3.13	-5.69	-14.15	-14.29	-6.1	-4.32	-7.18	-13.65	-5.58	-4.49	-12.29	-13.65	-14.75	-22.57	-16.46	-7.79	-3.42	-1.79	-3.36	-8.43	-20.47
θ (120°)	-9.46	-10.68	-7.56	-3.9	-2.31	-3.28	-9.23	-17.7	-5.22	-2.56	-4.53	-11.71	-7.71	-6.2	-9.99	-29.71	-15.79	-29.7	-12.03	-5.14	-2.28	-2.05	-4.18	-9.34	-9.46
θ (135°)	-12.18	-11.77	-6.49	-2.42	[-1.04]	-2.45	-7.77	-25.1	-6.87	-3.46	-4.7	-8.11	-6.71	-7.32	-11.2	-13.3	-10.78	-8.12	-5.21	-3.2	-3.59	-7.32	-13.97	-13.64	-12.18
θ (150°)	-14.36	-18.91	-8.25	-3.64	-2.2	-3.21	-7.45	-20.86	-9.1	-4.73	-4.73	-8.2	-10.44	-7.74	-6.75	-6.61	-5.68	-5.04	-4.75	-5.23	-7.31	-9.97	-9.19	-8.07	-14.36
θ (165°)	-24.98	-12.75	-6.36	-3.15	-1.85	-1.97	-3.35	-6.1	-10.71	-17.48	-20.81	-17.23	-15.43	-14.59	-15.05	-18.13	-23.71	-20.33	-15.14	-11.28	-8.7	-7.58	-8.21	-10.28	-24.98
θ (180°)	-19.68	-30.71	-14.51	-9.58	-6.77	-5.21	-4.31	-4.06	-4.29	-5.14	-6.8	-9.83	-15.74	-28.07	-14.15	-8.51	-5.42	-3.78	-2.77	-2.49	-3.09	-3.85	-5.95	-9.69	-19.68

t.	No.1																								
Freq. (MHz)	2500																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-12	-11.05	-9.89	-9.2	-8.62	-8.16	-7.95	-8.66	-10.09	-11.91	-14.24	-15.61	-13.84	-11.39	-9.43	-8.06	-7.23	-7.02	-7.4	-8.27	-9.84	-12.46	-16.75	-18.5
θ (15°)	-10.81	-9.35	-8.65	-8.59	-9.46	-11.11	-12.68	-12.41	-10.71	-8.87	-7.59	-6.94	-6.71	-6.63	-6.82	-8.61	-8.14	-8.55	-9.96	-12.73	-17.85	-30.29	-19.87	-14.19	-10.81
θ (30°)	-4.64	-2.56	-1.64	-2.08	-4.02	-7.69	-11.94	-12.34	-10.43	-7.81	-2.08	-3.35	-3.1	-3.77	-4.88	-5.93	-7.09	-9	-12.08	-17.27	-23.1	-19.82	-15.87	-10.28	-4.64
θ (45°)	-0.87	0.63	0.52	-1.24	-4.95	-12.2	-15.23	-9.42	-8.5	-9.69	-6.16	-3.02	-2.48	-2.87	-3.55	-4.64	-5.18	-6.22	-7.09	-6.82	-6.23	-5.9	-5.5	-4.43	-0.87
θ (60°)	-3.12	-0.51	0.34	-1.23	-4.72	-16.19	-6.69	-1.47	0.04	-0.54	-3.04	-4.53	-2.6	-2.51	-3	-2.87	-4.53	-5.7	-5.14	-3.45	-2.42	-3.1	-5.19	-6.44	-3.12
θ (75°)	-3.88	0.68	0.05	-2.85	-8.3	-9.56	-1.92	0.82	1.41	0	-1.86	0.32	1.08	1.43	1.41	0.14	-0.92	-3.28	-3.17	-1.91	-1.27	-2.72	-7.06	-10.15	-3.88
θ (90°)	-2.16	0.47	-0.09	-1.31	-3.22	-10.13	-2.19	1.41	2.57	2.62	1.09	-1.08	0.78	1.75	1.3	-0.19	-2.85	-2.97	-1.83	-0.87	0.18	0.13	-1.38	-3.27	-2.16
θ (105°)	-5.34	-0.82	-0.51	-1.9	-6.27	-18.16	-4.01	-0.65	-0.33	-2.38	-2.46	1.41	2.8	[3.00]	2.82	0.54	-1.84	-3.93	-3.33	-1.35	0.05	-0.36	-3.14	-6.39	-5.34
θ (120°)	-5.12	-3.45	-4.34	-6.74	-9.53	-17.63	-6.15	-1.88	-0.6	-1.49	-4.29	-3.96	-0.54	1.17	1.22	-0.29	-3.96	-8.19	-5.44	-1.72	0.57	1.52	0.21	-3.75	-5.12
θ (135°)	-8.76	-3.76	-2.11	-2.6	-6.52	-20.42	-12.91	-8.45	-8.41	-8.07	-3.9	-1.08	-0.76	-1.55	-1.06	-1.04	-2.99	-6.76	-11.29	-7.18	-3.5	-3.11	-6.41	-13.6	-8.76
θ (150°)	-0.88	-0.14	-0.59	-2.68	-7.14	-17.75	-18.65	-14.02	-18.75	-10.57	-3.12	0.56	2.01	1.77	0.47	-1.08	-3.39	-7.14	-11.62	-14.41	-13.41	-14.71	-10.74	-4.29	-0.88
θ (165°)	-1.02	-0.86	-1.47	-3.08	-6.05	-11.5	-21	-18.43	-17.74	-21.62	-17.99	-12.35	-9.39	-8.04	-7.79	-8.22	-9.56	-10.3	-10.7	-10.22	-8.61	-6.12	-3.72	-2.34	-1.02
θ (180°)	-4.67	-4.84	-5.64	-7.27	-10.26	-15.89	-24.16	-15.23	-10.79	-8.17	-6.27	-4.9	-4.1	-3.93	-4.49	-5.75	-8.49	-14.05	-27.51	-18.44	-11.52	-8.26	-6.27	-5.22	-4.67
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-9.19	-9.84	-10.82	-11.95	-12.54	-12.65	-12.46	-11.01	-9.49	-8.22	-7.29	-6.9	-7.21	-8.08	-9.46	-10.68	-11.38	-11.6	-11.28	-10.66	-9.94	-8.76	-7.35	-6.85
θ (15°)	-11.51	-15.22	-23.14	-27.22	-18.21	-14.9	-12.9	-11.42	-9.92	-8.3	-6.45	-4.73	-3.66	-3.96	-5.54	-7.06	-10.02	-13.73	-18.05	-16.55	-12.04	-9.19	-8.16	-8.4	-11.51
θ (30°)	-12.54	-19.39	-18.35	-9.57	-6.14	-4.89	-5.43	-7.49	-10.19	-10.83	-9.1	-6.33	-4.08	-3.33	-3.97	-5.85	-9.57	-16.17	-22.92	-17.68	-13.93	-12.24	-11.44	-10.73	-12.54
θ (45°)	-8.35	-13.11	-18.44	-7.44	-4.64	-4.44	-5.44	-7.63	-11.6	-15.69	-12.32	-6.7	-3.38	-2.51	-4.57	-8.86	-12.04	-16.77	-22.78	-16.35	-12.8	-12.7	-12.42	-9.58	-8.35
θ (60°)	-5.61	-9.31	-11.39	-5.54	-4.89	-5.22	-6.08	-8.43	-12.51	-16.91	-15.42	-8.16	-3.57	-3.65	-5.29	-9.09	-16.49	-26.74	-16.58	-14.1	-14.38	-12.86	-8.23	-4.91	-5.61
θ (75°)	-7.64	-11.64	-7.48	-4.56	-4.27	-6.73	-11.86	-20.32	-14.76	-11.15	-11.66	-6.97	-4.67	-4.66	-10.17	-16.12	-28.88	-16.65	-15.28	-10.72	-6.71	-3.64	-2.27	-3.24	-7.64
θ (90°)	-8.8	-8.16	-4.24	-2.59	-3.57	-5.19	-9	-16.23	-41.13	-16.54	-14.18	-9.71	-4.24	-5.85	-10.86	-18.48	-28.04	-18.92	-13.33	-11.66	-9.36	-4.83	-2.78	-4.63	-8.8
θ (105°)	-16.19	-17.56	-8.47	-4.15	-2.97	-5.52	-13.5	-16.2	-7.44	-5.68	-8.62	-12.93	-6.79	-5.29	-14.06	-14.52	-18.19	-16.06	-13.51	-7.58	-3.41	-2.14	-3.96	-8.89	-16.19
θ (120°)	-11.99	-12.9	-9.23	-4.37	-2.46	-2.95	-7.48	-18.74	-6.7	-3.57	-5.53	-9.77	-6.74	-8.31	-13	-21.66	-12.42	-16.4	-7.57	-2.7	[-0.75]	-1.03	-3.3	-12.39	-11.99
θ (135°)	-13.87	-12.54	-7.87	-3.37	-1.44	-2.34	-6.55	-15.94	-8.54	-4.71	-5.5	-6.61	-5.76	-9.16	-15.21	-11.97	-6.9	-4.57	-3.19	-2.04	-2.74	-6.19	-13.53	-20.92	-13.87
θ (150°)	-21.87	-19.22	-9.04	-4.8	-3.16	-3.73	-7.06	-15.83	-11.65	-6.68	-6.19	-8.72	-10.88	-8.8	-7.45	-6.98	-5.63	-4.82	-4.84	-5.64	-7.98	-11.38	-13.12	-11.68	-21.87
θ (165°)	-29.48	-12.99	-7.18	-4.16	-2.74	-2.47	-3.28	-5.29	-8.71	-14.82	-33.2	-20.6	-16.28	-15.36	-16.18	-18.27	-20.81	-21.05	-17.55	-13.83	-10.87	-9.46	-10.1	-12.36	-29.48
θ (180°)	-28.21	-20.56	-13.19	-9.56	-7.29	-5.81	-5.02	-4.92	-5.82	-7.63	-10.17	-13.57	-19.71	-23.11	-13.88	-8.73	-6.15	-5.03	-4.3	-4.02	-4.36	-5.02	-7.27	-12.01	-28.21



Ant.	No.2																								
Freq. (MHz)	2400																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-27.06	-21.03	-15.16	-11.86	-9.88	-8.74	-8.41	-8.85	-9.97	-11.74	-12.39	-16.4	-21.65	-17.07	-12.72	-10.26	-8.71	-7.68	-7.54	-8	-9	-10.97	-13.75	-14.61	-27.06
θ (15°)	-8.61	-6.52	-5	-4.08	-4.52	-4.05	-4.14	-4.78	-5.66	-6.7	-7.8	-8.88	-9.99	-11.49	-13.7	-17.33	-21.14	-23.18	-18.49	-13.54	-10.34	-10.61	-11.89	-13.76	-8.61
θ (30°)	-6.29	-4.76	-3.34	-2.53	-2.29	-2.73	-2.92	-3.22	-3.54	-3.71	-3.45	-2.81	-2.07	-1.76	-2.24	-3.63	-5.93	-8.06	-9.82	-11.34	-10.19	-7.69	-6.09	-8.19	-6.29
θ (45°)	-8.83	-4.88	-2.82	-1.78	-1.66	-1.08	-1.6	-3.04	-5.2	-6.86	-6.09	-3.76	-1.21	0.14	-0.06	-1.01	-2.17	-2.6	-3.45	-6.85	-10.58	-12.55	-11.95	-15.13	-8.83
θ (60°)	-2.4	0.49	1.93	1.68	1	0.92	0.87	0.26	-1.19	-3.55	-5.71	-5.54	-3.24	-0.64	0.45	0.85	1.66	1.32	-0.36	-2.91	-8.45	-13.45	-16.61	-14.37	-2.4
θ (75°)	-1.07	2.27	3.15	2.62	2.8	3	3.24	3.09	2.09	-0.35	-4.53	-8.47	-5.1	-0.38	1.67	0.76	0.46	2.02	0.83	-3.68	-9.2	-11.91	-10.94	-10.05	-1.07
θ (90°)	-1.77	1.43	3.02	2.79	2.36	2.53	2.81	2.56	1.68	-0.15	-3.7	-8.88	-7.9	-3.64	-1.3	0.77	1.94	0.42	-1.08	-2.34	-9.23	-16.44	-13.74	-8.09	-1.77
θ (105°)	-0.3	2.62	[3.63]	3.57	3.11	2.65	2.39	2	1.42	0.22	-3.46	-8.06	-7.36	-3.45	-1.99	-4.92	-5.27	-2.7	-2.65	-6.05	-14.29	-22.31	-10.68	-7.42	-0.3
θ (120°)	-2.52	-0.94	-0.31	-0.45	-0.78	-1.25	-1.18	-1.39	-2.29	-3.67	-5.66	-6.9	-4.58	-2.12	-0.49	0.52	0.5	-1.12	-3.73	-7.75	-13.69	-23.2	-15.3	-8.5	-2.52
θ (135°)	1.59	2.53	2.34	2.02	1.39	1.43	0.98	-0.36	-3.17	-8.63	-18.72	-23.78	-11.92	-4.87	-2.74	-4.83	-10.6	-15.21	-10.42	-6.45	-6.32	-10.91	-13.92	-5.46	1.59
θ (150°)	1.77	2.25	2.27	2.16	2.38	2.78	2.95	2.49	1.35	-0.4	-2.46	-5	-9.16	-10.98	-7.06	-5.16	-5.63	-6.86	-7.32	-9.33	-12.4	-10.81	-6.58	-2.93	1.77
θ (165°)	0.29	0.98	1.38	1.59	2	1.03	0.07	-0.9	-1.92	-2.88	-3.62	-4.36	-5.93	-8.79	-7.86	-3.89	-2.42	-2.51	-3.1	-4.08	-5.22	-5.56	-4.96	-4.1	0.29
θ (180°)	-15.79	-14.21	-11.1	-8.78	-7.29	-6.77	-7.17	-7.85	-8.9	-10.07	-10.7	-11.08	-11.87	-13.39	-16.24	-18.08	-15.67	-14.2	-12.94	-11.51	-10.8	-10.53	-11.25	-13.25	-15.79
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-7.03	-7.43	-8.34	-9.83	-12.35	-16.55	-23.55	-21.56	-15.58	-13.38	-10.72	-9.54	-9.3	-10.05	-11.94	-15.22	-19.46	-22.52	-19.43	-15.91	-12.18	-9.42	-8.15	-7.96	-7.03
θ (15°)	-7.95	-9	-11.44	-16.4	-18.46	-32.27	-15.4	-10.9	-8.91	-8.31	-8.3	-8.26	-7.99	-7.76	-7.8	-8.74	-10.13	-12.1	-13.62	-15.8	-21.31	-21	-11.82	-8.69	-7.95
θ (30°)	-7.43	-8.08	-9.84	-12.93	-16.24	-16.86	-16.23	-12.49	-10.16	-9.44	-9.4	-9.1	-8.14	-6.96	-6.14	-5.97	-7.04	-8.54	-9.9	-11.02	-12.5	-14.2	-12.29	-6.93	-7.43
θ (45°)	-3.53	-3.65	-4.09	-5.49	-7.44	-15.74	-15.34	-8.49	-6.22	-5.68	-6.73	-8.73	-8.4	-5.19	-3.12	-2.79	-5.2	-8.34	-7.77	-6.47	-6.84	-12.25	-9.6	-4.52	-3.53
θ (60°)	-3.96	-4.08	-4.12	-5.25	-7.98	-10.53	-16.09	-23.17	-15.39	-10.93	-9.93	-11.23	-11.09	-6.99	-3.55	-2.86	-4.63	-9.99	-11.41	-6.18	-4.08	-5.84	-10.44	-4.85	-3.96
θ (75°)	-3.68	-3.66	-4.92	-8.77	-14.63	-21.76	-16.9	-11.18	-7.72	-6.02	-5.91	-7.04	-8.71	-11.53	-5.24	-8.73	-15.29	-14.84	-5.24	-4.82	-3.27	-3.8	-10.42	-5.17	-3.68
θ (90°)	-3.95	-3.87	-4.2	-7.43	-12.7	-21.47	-19.84	-12.13	-7.95	-5.6	-5.04	-6.04	-6.76	-6.62	-8.88	-5.95	-7.58	-15.72	-7.57	-1.45	-1.54	-5	-15.88	-5	-3.95
θ (105°)	-3.11	-4.52	-4.88	-6.67	-10.75	-17.37	-23.28	-10.27	-4.32	-1.05	[-0.19]	-1.37	-3.1	-10.82	-11.19	-10.23	-6.25	-7.08	-5.58	-5.32	-4.82	-11.28	-10.9	-4.31	-3.11
θ (120°)	-3.51	-5.14	-7.67	-9.54	-11.49	-15.59	-13.04	-7.65	-3.98	-1.7	-1.44	-3.32	-4.26	-7.71	-23.07	-8.45	-9.9	-8.62	-6.77	-5.01	-6.49	-11.52	-7.6	-3.72	-3.51
θ (135°)	-4.71	-7.8	-11.48	-12.81	-12.07	-13.46	-12.94	-11.42	-10.25	-8.37	-6.22	-3.33	-0.62	-1.54	-14.33	-7.02	-5.83	-8.86	-8.93	-7.54	-8.82	-11.58	-7.29	-5.23	-4.71
θ (150°)	-2.08	-2.64	-3.96	-5.96	-9.47	-16.43	-14.64	-7.91	-4.65	-3.36	-2.61	-1.89	-1.5	-2.53	-6.93	-13.18	-5.79	-5.29	-9.59	-16.13	-9.49	-5.41	-3.61	-3.93	-2.08
θ (165°)	-5.7	-6.29	-7.72	-10.52	-12.4	-16.17	-23.47	-41.76	-24.89	-20.35	-16.28	-11.75	-7.76	-5.35	-5	-7.16	-11.27	-16.02	-17.03	-21.52	-16.61	-12.31	-10.4	-10.09	-5.7
θ (180°)	-7.13	-7.31	-8.15	-9.64	-11.48	-13.02	-14.17	-14.25	-13.97	-14.36	-14.77	-14.46	-13.3	-11.84	-10.97	-10.99	-12.31	-13.89	-14.6	-16.05	-17.78	-17.75	-16.78	-14.94	-7.13



Ant.	No.2																									
Freq (MHz)	2450																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB	φ	-14.55	-13.65	-12.35	-11.13	-10.27	-9.9	-10.29	-11.29	-12.88	-13.92	-13.89	-17.7	-25.94	-24.88	-17.71	-14.04	-11.49	-9.85	-9.22	-9.23	-9.85	-11	-13.18	-14.77	-14.55
θ (0°)																										
θ (15°)		-8.5	-6.47	-4.95	-4.19	-4.92	-5.48	-5.89	-7.06	-8.72	-10.8	-12.98	-14.53	-14.55	-13.7	-13.31	-14.31	-15.94	-15.49	-12.64	-9.94	-7.73	-7.16	-7.69	-8.75	-8.5
θ (30°)		-6.08	-4.56	-3.16	-2.35	-1.99	-2.4	-2.94	-3.68	-4.61	-5.84	-7.57	-8.45	-6.31	-4.04	-3.45	-4.58	-6.22	-7.04	-7.82	-8.44	-7.37	-5.33	-3.96	-5.61	-6.08
θ (45°)		-8.67	-5.61	-3.66	-2.17	-1.9	-1.26	-1.38	-2.27	-3.54	-4.02	-3.99	-4.44	-2.47	-0.19	-0.09	-1.32	-2.47	-2.54	-3.35	-5.89	-7.9	-8.14	-8.16	-10.04	-8.67
θ (60°)		-3.77	-1.24	0.11	0.3	0.08	-0.1	-0.53	-1.74	-3.93	-5.21	-5.22	-4.65	-1.22	0.3	0.41	0.98	0.81	-0.2	-2.16	-5.89	-8.24	-11.95	-12.98	-3.77	
θ (75°)		-1.75	1.26	2.32	1.91	1.94	2.32	2.61	2.5	1.62	-0.61	-4.4	-7.68	-4.94	-0.13	0.67	-0.91	0.79	2.24	0.77	-2.61	-5.2	-6.36	-8.2	-7.42	-1.75
θ (90°)		-3.36	0.04	2.29	2.39	1.82	2.1	2.59	2.59	1.93	0.34	-2.9	-8.16	-8.78	-4.27	-1.97	0.51	1.91	0.71	0.13	-1.94	-9.59	-6.51	-6.82	-7.9	-3.36
θ (105°)		-1.23	1.66	3.26	[3.48]	3.29	2.77	2.41	2.09	1.81	1.18	-1.49	-7.04	-7.49	-3.71	-3.95	-7.07	-5.22	-2.74	-3.64	-9.1	-21.09	-11.73	-7.84	-6.25	-1.23
θ (120°)		-2.21	-1.33	-0.42	0.04	-0.21	-0.89	-1.21	-1.69	-2.46	-3.06	-3.86	-5.09	-5.03	-4.24	-2.94	-0.96	-0.32	-2.01	-4.82	-10.25	-28.63	-20.27	-11.06	-6.08	-2.21
θ (135°)		1.56	1.91	1.92	1.96	1.08	0.75	0.35	-0.79	-3.28	-8.25	-17.48	-13.6	-9.06	-5.96	-4.78	-6.93	-12.76	-17.89	-12.27	-9.21	-11.71	-18.13	-6.46	-2.21	1.56
θ (150°)		1.46	1.47	1.03	0.79	1.15	1.82	2.26	2.07	1.11	-0.81	-3.69	-7.65	-11.6	-10.12	-7.44	-6.34	-6.16	-6.16	-7.11	-9.28	-9.17	-6.19	-3.48	-1.68	1.46
θ (165°)		-0.8	-0.16	0.24	0.57	1.43	0.8	-0.16	-1.16	-2.18	-3.27	-4.71	-6.67	-9.25	-10.45	-6.77	-3.76	-2.91	-3.17	-4.01	-5.3	-6.69	-7.32	-6.79	-5.86	-0.8
θ (180°)		-15.62	-13.26	-10.84	-9.25	-8.31	-8.13	-9.11	-10.71	-12.89	-15.42	-16.9	-17.51	-18.3	-20.83	-25.2	-22.92	-20.29	-19.54	-18.08	-17.19	-17.49	-19.09	-22.97	-32.45	-15.62
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB	φ	-8.42	-9.07	-10.22	-11.92	-13.65	-14.52	-14.21	-13.05	-11.85	-12.27	-11.67	-10.44	-10.05	-10.43	-11.54	-13.43	-16.25	-20.23	-20.9	-16.36	-12.57	-10.37	-9.26	-9.55	-8.42
θ (0°)																										
θ (15°)		-9.1	-10.39	-13.91	-20.03	-17.41	-16.21	-11.6	-9.38	-8.56	-8.44	-8.95	-9.72	-10.11	-9.7	-9.25	-9.45	-10.43	-11.53	-12.74	-15.31	-20.52	-20.61	-11.93	-9	-9.1
θ (30°)		-7.94	-9.03	-12.19	-18.88	-29.17	-16.34	-11.39	-8.47	-6.87	-6.4	-6.82	-7.81	-8.65	-8.13	-6.77	-6.14	-7.33	-9.12	-10.16	-10.46	-11.64	-15.72	-13.98	-7.49	-7.94
θ (45°)		-4.16	-4.85	-5.23	-6.4	-8.22	-13.74	-15.13	-8.65	-5.77	-5.33	-7.54	-12.01	-13.19	-7.93	-4.56	-3.79	-6.19	-8.7	-7.62	-6.27	-7.31	-12.85	-9.54	-4.28	-4.16
θ (60°)		-3.87	-3.8	-2.37	-2.87	-6.06	-9.81	-13.61	-14.03	-10.89	-7.62	-7	-10	-14.63	-8.98	-3.82	-2.55	-4.5	-10.73	-10.22	-4.75	-3.05	-4.28	-9.51	-5.58	-3.87
θ (75°)		-3.38	-2.98	-2.83	-5.6	-12.36	-33.43	-17.6	-11.64	-7.97	-5.61	-5.98	-11.21	-14.79	-14.16	-5.28	-7.94	-11.89	-16.98	-7.01	-4.84	-1.79	-2.52	-9.5	-4.13	-3.38
θ (90°)		-3.36	-3.63	-3.67	-6.96	-13.93	-21.24	-20.07	-14.95	-9.76	-6.26	-5.44	-7.56	-10.18	-8.54	-9.08	-4.94	-8.38	-18.66	-6.65	-1.69	-1.88	-4.31	-15.61	-4.46	-3.36
θ (105°)		-2.75	-3.22	-3.68	-6.99	-12.94	-19.35	-16.84	-9.7	-4.87	-1.73	[-0.94]	-2.5	-4.05	-12.2	-11.98	-8.18	-6.56	-8.29	-5.8	-3.44	-2.43	-8.42	-11.24	-3.9	-2.75
θ (120°)		-5.07	-6.09	-6.72	-9.08	-12.84	-23.05	-16.23	-9.27	-5.46	-2.75	-2.05	-4.05	-5.58	-8.35	-23.76	-8.99	-10.15	-9.19	-5.93	-3.93	-5.64	-11.79	-9.7	-4.67	-5.07
θ (135°)		-6.56	-11.15	-15.06	-15.79	-14.19	-16.34	-12.99	-9.29	-7.51	-6.35	-5.05	-3.08	-1.09	-2.17	-14.65	-7.79	-6.3	-8.45	-7.94	-6.16	-7.32	-10.41	-7.05	-5.58	-6.56
θ (150°)		-2.85	-3.94	-5.67	-7.63	-10.81	-19.98	-14.34	-6.58	-3.17	-1.76	-1.22	-1.04	-1.35	-2.87	-7.15	-14.05	-8.87	-9.25	-16.56	-15.28	-8.34	-5.11	-3.59	-4.31	-2.85
θ (165°)		-5.81	-6.27	-7.27	-9.14	-10.62	-14.66	-22.72	-25.35	-19.58	-15.89	-12.79	-10.19	-8.12	-6.75	-7.02	-9.76	-14.09	-19.89	-21.02	-18.69	-13.13	-10.24	-8.65	-8.31	-5.81
θ (180°)		-8.63	-9.27	-10.85	-13.72	-17.48	-18.77	-16.64	-14.89	-14.32	-15.02	-15.71	-15.64	-15.34	-14.95	-15.2	-16.69	-20.03	-22.52	-26.81	-43.73	-24.51	-18.82	-16.27	-15.29	-8.63



Ant.	No.2																									
Freq. (MHz)	2500																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB	φ	-10.94	-10.24	-9.47	-9.25	-9.66	-10.76	-12.31	-14.65	-18.13	-20.69	-19.22	-19.17	-16.74	-14.78	-13.77	-13.11	-12.5	-12	-11.99	-12.33	-12.8	-13.41	-13.91	-15.41	-10.94
θ (0°)																										
θ (15°)		-6.86	-5.77	-4.72	-4.19	-4.31	-4.98	-5.76	-6.86	-8.38	-10.22	-11.83	-12.87	-13.74	-14.61	-15.32	-15.49	-15.13	-13.63	-11.9	-9.77	-7.88	-6.83	-6.45	-6.64	-6.86
θ (30°)		-5.71	-4.4	-2.88	-1.87	-1.35	-1.51	-2.03	-2.71	-3.45	-4.47	-6.09	-8.77	-11.28	-9.96	-8.22	-8.31	-8.44	-8.41	-8.66	-9.27	-8.06	-5.58	-3.77	-4.31	-5.71
θ (45°)		-9.85	-6.26	-3.74	-2	-1.43	-1.24	-1.71	-2.82	-3.88	-3.72	-2.76	-2.89	-3.16	-2	-2.15	-3.44	-3.87	-2.92	-3.1	-5.26	-8.37	-9.13	-8.24	-8.46	-9.85
θ (60°)		-5.66	-3.23	-1.55	-0.76	-0.68	-1.27	-1.92	-2.74	-3.95	-5.37	-4.83	-3.17	-3.07	-1.77	-0.66	-0.52	0.43	1.17	0.98	-0.84	-4.27	-6.9	-11.37	-13.56	-5.66
θ (75°)		-2.54	0.51	1.92	1.73	0.99	0.52	0.22	-0.11	-0.83	-2.42	-4.51	-5.71	-4.56	-0.73	-0.53	-2.02	0.49	2.23	1.58	-0.61	-3.28	-4.52	-6.38	-6.11	-2.54
θ (90°)		-5.13	-1.16	1.45	1.65	0.76	0.7	1.18	1.36	0.8	-0.7	-3.57	-7.6	-6.65	-2.49	-1.22	0.08	1.5	1.82	2.01	0.14	-4.44	-3.77	-4.88	-8.64	-5.13
θ (105°)		-3	0.96	[2.82]	2.81	2.37	1.93	1.56	1.17	0.81	0.32	-1.88	-6.63	-5.89	-2.72	-4.41	-7.61	-5.05	-1.89	-2.04	-5.3	-9.32	-7.67	-7.01	-8.11	-3
θ (120°)		-2.54	-1.69	-0.93	-0.86	-1.11	-1.35	-1.37	-1.58	-2.3	-3.26	-4.43	-5.44	-4.49	-3.72	-3.97	-2.51	-1.04	-1.27	-2.42	-5.58	-11.16	-12.04	-7.82	-5.48	-2.54
θ (135°)		1.2	2.13	2.56	2.38	1.32	0.24	-0.86	-2.2	-4.35	-7.84	-12.09	-11.22	-7.92	-5.53	-5.17	-7.13	-11.5	-16.28	-12.99	-10.28	-10.59	-8.55	-3.82	-1.44	1.2
θ (150°)		0.25	0.55	0.56	0.53	0.85	1.43	1.92	1.9	1.23	-0.19	-2.18	-4.46	-6.18	-6.02	-5.22	-6.01	-8.58	-8.19	-7.08	-6.88	-6.69	-5.67	-4.25	-3.01	0.25
θ (165°)		-0.78	0.26	0.9	1.24	1.9	1.4	0.4	-0.84	-2.24	-3.51	-4.59	-5.56	-6.61	-6.97	-5.42	-4.32	-4.59	-5.39	-6	-6.75	-7.52	-7.33	-6.03	-4.72	-0.78
θ (180°)		-36.42	-23.79	-17.8	-14.59	-12.67	-11.69	-11.41	-11.45	-11.65	-11.85	-11.94	-12.28	-12.82	-13.81	-15.82	-19.2	-23.86	-21.26	-17.78	-15.2	-13.63	-12.79	-12.71	-14.12	-36.42
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB	φ	-13.24	-15.26	-17.42	-18.09	-16.57	-14.19	-12.35	-11.02	-10.24	-11.64	-12.87	-12.69	-13.02	-13.92	-15.35	-16.81	-18	-17.1	-14.8	-12.51	-11.1	-10.57	-10.69	-12.72	-13.24
θ (0°)																										
θ (15°)		-13.09	-14.95	-19.46	-20.68	-16.29	-13.48	-10.29	-8.45	-7.85	-8.1	-9.19	-10.85	-12.65	-13.84	-14.61	-15.73	-17.14	-17.99	-17.97	-16.78	-15.15	-13.86	-11.66	-10.1	-13.09
θ (30°)		-8.25	-9.02	-11.54	-15.09	-22	-22.12	-13.93	-9.76	-7.46	-6.2	-6.13	-7.31	-9.13	-9.6	-8.47	-8.02	-9.68	-11.75	-12.51	-12.13	-13.97	-23.78	-15.41	-8.53	-8.25
θ (45°)		-4.91	-5.43	-5.57	-6.55	-8.28	-9.83	-9.75	-8.48	-7.01	-6.39	-8.17	-13.51	-17.81	-11.26	-6.76	-5.59	-8.33	-11.77	-9.41	-7.5	-9.26	-16.96	-11.21	-5.15	-4.91
θ (60°)		-3.32	-2.8	-1.27	-2.05	-5.68	-10.18	-9.98	-8.39	-7.46	-6.61	-6.47	-9.36	-16	-11.03	-4.53	-2.58	-4.4	-10.84	-10.83	-4.8	-3.25	-4.85	-13.79	-5.75	-3.32
θ (75°)		-1.96	-1.34	-1.43	-4.7	-11.85	-27.89	-15.26	-9.51	-6.89	-5.95	-6.62	-11.84	-20.56	-14.62	-5.36	-5.26	-7.89	-21.84	-7.59	-3.76	-1.92	-4.09	-13.69	-3.71	-1.96
θ (90°)		-2.36	-2.55	-3.15	-7.3	-18.96	-18.45	-12.59	-11.29	-10.78	-9.41	-8.46	-10.33	-15.23	-11.38	-8.48	-4.51	-8.65	-16.67	-5.47	-1.21	-1.23	-4.07	-18.56	-3.91	-2.36
θ (105°)		[-0.75]	-1.24	-3.03	-7.85	-18.33	-16.86	-11.96	-9.06	-6.28	-4.23	-3.73	-4.9	-6.17	-14.52	-13.93	-8.47	-9.12	-10.47	-6.56	-3.51	-3.42	-11.35	-8.15	-2.48	-0.75
θ (120°)		-3.39	-3.95	-5.54	-10.33	-19.83	-15.14	-9.65	-7.71	-6.28	-4.5	-3.78	-5.6	-7.72	-10.31	-19.35	-11.3	-13.4	-13.1	-9.44	-6.75	-7.75	-9.48	-5.92	-3.2	-3.39
θ (135°)		-5.33	-7.98	-11.5	-15.99	-19.99	-14.83	-9.54	-7.31	-6.85	-7.43	-7.5	-5.19	-2.54	-3.71	-13.27	-7.7	-7.33	-10.2	-12.42	-10.99	-10.2	-8.34	-5.11	-4.31	-5.33
θ (150°)		-3.26	-4.29	-6.24	-8.9	-14.17	-28.9	-11.78	-6.27	-3.77	-2.81	-2.42	-2.08	-2.02	-3.67	-10.34	-15.22	-6.48	-6.38	-8.82	-8.8	-6.47	-4.48	-3.4	-4.07	-3.26
θ (165°)		-4.25	-4.87	-6.39	-9.02	-13.09	-20.18	-26.06	-18.75	-15.85	-13.97	-11.94	-9.32	-7.36	-6.88	-8.98	-14.26	-20.31	-21.92	-16.98	-13.42	-9.73	-7.4	-6.27	-6.1	-4.25
θ (180°)		-10.37	-10.45	-11.27	-13.37	-17.51	-24.5	-41.57	-25.03	-21.04	-18.81	-16.25	-13.9	-12.31	-11.6	-11.59	-11.79	-11.82	-11.95	-12.65	-14.11	-16.76	-20.77	-21.62	-17.44	-10.37



BUREAU VERITAS

Ant.	No.1																								
Freq. (MHz)	5150																								
Polarity	Theta																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	-8.41	-8.48	-8.68	-9.37	-11.49	-14.41	-19.14	-27.02	-18.72	-14.49	-11.46	-9.83	-8.65	-8.3	-8.88	-9.91	-11.26	-13.96	-20.32	-29.88	-18.19	-13.61	-11.39	-9.69
θ (15°)	-5.08	-5.59	-6.5	-7.45	-7.41	-7.37	-7.88	-9.23	-11.74	-16.31	-21.76	-22.8	-28.99	-31.49	-21.25	-14.94	-11.63	-9.45	-8.32	-8.11	-7.59	-7.12	-5.95	-4.92	-5.08
θ (30°)	-5.34	-7.39	-5.4	-3.43	-4.48	-6.89	-8.3	-11.42	-13.02	-11.35	-8.9	-9.15	-14.07	-14.63	-9.02	-5.5	-5.69	-6.27	-5.04	-3.82	-2.73	-3.14	-4.76	-4.42	-5.34
θ (45°)	-2.52	-3.76	-3.85	-10.66	-5.55	-4.22	-7.23	-6.76	-5.59	-5.06	-5.06	-5.02	-8.24	-5.82	-3.38	-4.73	-5.09	-4.48	-2.48	-2.27	-2.33	-3.34	-4.61	-3.81	-2.52
θ (60°)	-1.36	-1.57	-0.7	-7.83	-4.82	-3.67	-9.83	-7.95	-2.69	0.41	0.36	-0.03	-4.96	-2.77	-0.79	-2.75	-2.04	-0.81	-1.25	-0.52	-0.41	-0.86	0.08	-1.29	-1.36
θ (75°)	0.65	-1.21	-0.63	-5.16	-2.77	-2.84	-9.08	-4.4	-3.57	-1.53	0.1	1.81	-2.94	-0.58	-0.71	-0.64	0.23	0.5	-0.93	0.99	1.37	-0.41	1.53	-0.45	0.65
θ (90°)	0.32	-3	0.91	-1.12	-13.15	-0.64	-7.66	-0.1	-1.54	-4.27	-0.99	-0.09	-0.13	-1.82	-0.36	0.28	1.61	0.99	0.46	2.63	2.39	-0.26	[2.65]	0.35	0.32
θ (105°)	0.18	-2.38	-0.01	0.76	-14.02	-3.68	-9.46	-2.86	-5.19	-2.43	-0.7	-1.64	-2.11	-0.44	-1.56	-1.71	-0.37	-0.89	-1.24	1.01	1.69	0.61	1.4	1.17	0.18
θ (120°)	-0.46	-1.91	-1.74	-3.51	-7.65	-13.2	-10.99	-3.86	-7.35	-3.25	-1.12	0.84	-1.8	-3.9	0.3	-3.45	-2.7	-3.45	-2.89	-0.5	0.47	0.33	0.32	1.06	-0.46
θ (135°)	-1.12	-8.78	-4.38	-12.41	-3.89	-8.77	-8.39	-6.47	-4.23	-0.58	-0.1	1	-0.73	0.45	0.16	-3.95	-3.44	-2.21	-2.14	-1.16	0.19	-0.84	-3.03	-2.94	-1.12
θ (150°)	-7.89	-9.08	-11.22	-8.32	-8.63	-16.01	-21.2	-9.24	-3.93	-2.26	-3.93	-5.1	-2.16	-2.64	-4.07	-7.23	-7.14	-5.98	-4.97	-4.89	-4.28	-3.86	-4.38	-4.86	-7.89
θ (165°)	-8.89	-9.88	-10.67	-11.33	-13.26	-15.43	-13.9	-13.3	-12.89	-13.5	-13.96	-11.02	-6.85	-5.25	-5.84	-7.87	-10.14	-10.54	-10.03	-9.08	-8.17	-7.67	-7.48	-7.88	-8.89
θ (180°)	-14.46	-15.52	-16.05	-15.89	-15	-15.65	-15.12	-14.88	-14.6	-13.34	-13.46	-13.92	-14.84	-16.25	-17.93	-17.94	-17.49	-16.81	-16.67	-14.78	-13.07	-13.1	-13.43	-13.6	-14.46
Polarity	Phi																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	-16.71	-21.42	-23.73	-16.76	-13.27	-10.29	-9.05	-8.92	-8.82	-9.57	-10.7	-12.47	-16.46	-23.55	-21.44	-15.57	-12.05	-9.92	-8.67	-8.49	-8.64	-9.04	-10.41	-12.96
θ (15°)	-17.65	-14.51	-12.99	-14.14	-20.64	-29.09	-19.51	-13.03	-9.28	-7.7	-8.44	-12.16	-15.76	-14.94	-14.59	-15.35	-15.21	-16.19	-18.71	-17.75	-15.66	-13.09	-11.79	-12.75	-17.65
θ (30°)	-11.55	-24.27	-21.23	-21.78	-17.99	-16.63	-15.81	-13.13	-11.67	-11.55	-7.9	-6.56	-12.31	-15.09	-11.27	-11.63	-20.58	-18.93	-17.65	-18.51	-18.97	-14.8	-8.49	-6.08	-11.55
θ (45°)	-14.87	-20.58	-30.37	-13.55	-9.35	-12.34	-17.97	-24.58	-12.65	-9.61	-11.41	-10.84	-18.85	-12.09	-8.2	-10.93	-19.28	-14.66	-15.05	-15.48	-13.53	-20.41	-8.17	-9.37	-14.87
θ (60°)	-24.28	-27.23	-15.63	-25.58	-9.34	-9.42	-11.23	-13.34	-22.91	-15.03	-11.85	-11.63	-14.86	-15.1	-12.59	-29.99	-18.53	-42.13	-31.56	-21.35	-14.26	-17.81	-12.29	-14.18	-24.28
θ (75°)	-21.4	-10.99	-8.15	-8.54	-12.27	-23.53	-15.38	-14.17	-24.35	-17.33	-21.6	-17.05	-16.93	-21.25	-16.25	-28.14	-24.7	-23.15	-22.36	-22.98	-15.87	-20.99	-19.26	-12.68	-21.4
θ (90°)	-20.71	-16.37	-10.12	-5.93	-8.78	-23.47	-15.57	-8.72	-9.1	-16.73	-17.63	-17.64	-17.16	-18.67	-16.98	-15.41	-21.8	-20.06	-18.16	-20.16	-12.07	-6.95	-6.57	-7.45	-20.71
θ (105°)	-13.22	-16.76	-12.27	-8.94	-9.32	-15.14	-29.55	-8.66	-7.21	-12.93	-17.8	-14.29	-12.24	-15.54	-10.21	-9.83	-10.83	-12.76	-17.63	-15.75	-8.36	-7.41	-11.98	-17.04	-13.22
θ (120°)	-14.08	-12.56	-7.01	-18.43	-9.91	-12.3	-9.52	-10.45	-8.75	-23.55	-15.29	-10.14	-11.08	-17.63	-8.58	-5.97	-7.75	-9.5	-8.33	-7.84	-7.35	-22.12	-12.3	-31.99	-14.08
θ (135°)	-13.25	-17.31	-6.04	-9.58	-18.19	-9.41	-8.7	-7.84	-9.14	-12.22	-6.53	-11.9	-14.87	-14.39	-6.4	-7.95	-11.97	-27.37	-29.78	-20.12	-11.48	-17.38	-14.6	-13.3	-13.25
θ (150°)	-6.41	-6.96	-7.93	-15.77	-9.8	-7.55	-8.64	-9.71	-11.42	-19	-13.21	-8.65	-11.95	-15.32	-9.88	-9.03	-11.59	-12.97	-16.05	-24.22	-23.27	-14.81	-14.49	-9.26	-6.41
θ (165°)	-11.89	-16.29	-15.51	-8.28	-5.08	[-4.49]	-6.03	-9.91	-15.35	-18.61	-22.04	-15.57	-14.04	-14.63	-13.85	-11.77	-10.1	-10.16	-9.59	-8.59	-9.55	-11.47	-12.37	-11.05	-11.89
θ (180°)	-12.63	-11.36	-10.77	-12.68	-18.36	-21.46	-15.44	-13.29	-11.82	-14.45	-14.96	-13.59	-15.05	-15.43	-15.28	-15.47	-16.05	-15.42	-18.75	-21.98	-18.95	-19.08	-19.01	-16.03	-12.63

Ant.	No.1																									
Freq. (MHz)	5250																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
dB	φ (0°)	-10.04	-10.31	-11.37	-14.15	-17.69	-22.98	-25.07	-19.7	-15.28	-12.78	-11.44	-10.32	-10.22	-10.82	-11.81	-13.65	-17.18	-23.25	-27.86	-19.73	-15.01	-12.34	-10.49	-9.85	-10.04
	θ (0°)	-4.56	-4.55	-4.85	-5.74	-6.87	-7.68	-9.27	-12.12	-17.47	-27.57	-20.59	-18.74	-21.32	-24.61	-43.54	-25.46	-17.07	-13.6	-10.95	-9.27	-7.96	-7.04	-5.86	-5.09	-4.56
	θ (15°)	-4.34	-5.07	-3.97	-2.97	-3.18	-4.61	-5.44	-7.66	-9.97	-8.95	-9.59	-12.96	-18.99	-19.57	-10.8	-10.31	-11.03	-7.87	-6.71	-5.45	-5.18	-5.76	-6.23	-5.81	-4.34
	θ (30°)	-1.59	-1.91	-2.53	-6.22	-6.2	-3.33	-6.4	-5.73	-3.66	-3.86	-4.48	-7.34	-11.34	-7.2	-4.94	-4.32	-4.87	-2.37	-1.86	-2.25	-3.82	-5.87	-5.35	-4.34	-1.59
	θ (45°)	-0.39	-1.33	0.22	-6.36	-4.29	-3.21	-7.79	-6.53	-1.48	1.52	1.13	-0.81	-10.61	-2.85	0.07	-0.5	-0.04	0.3	0.45	0.82	-1.3	-4.97	-1.85	0.13	-0.39
	θ (60°)	0.37	0.37	-0.97	-5.06	-3.74	-1.9	-9.49	-3.76	-2.64	-1.33	0.43	1.19	-4.79	-0.75	1.24	1.99	1.41	0.83	0.34	1.66	-0.51	-2.73	2.35	1.35	0.37
	θ (75°)	1.43	-0.42	-0.44	-1.56	-18.14	-0.74	-11.44	-0.66	-0.2	-1.73	-0.05	-0.3	-2.17	-2.21	1.38	3.01	3.47	1.74	1.86	[3.96]	2.21	-3.35	3.43	1.13	1.43
	θ (90°)	1.98	-1.34	-3.26	-0.14	-14.28	-3.9	-12.78	-4.05	-4.06	-1.07	-0.18	-1.88	-2.77	-0.99	-0.1	1.17	1.07	0.48	1.5	2.64	0.12	-1.83	2.6	1.96	1.98
	θ (105°)	1.51	-2.05	-3.82	-3.29	-8.63	-10.39	-11.29	-3.28	-6.16	-1.73	-0.06	0.47	-2.59	-4.01	-0.24	-1.14	-0.23	-2.58	-2.39	-1.07	-0.69	-1.72	0.45	2.08	1.51
	θ (120°)	0.18	-8.43	-3.99	-18.8	-3.75	-7.6	-6.91	-5.33	-3.59	-0.18	-0.53	0.62	-1.16	-0.77	-1.99	-2.4	-0.9	-1.23	-2.54	-1.43	-0.38	-0.68	-1.2	-1.08	0.18
	θ (135°)	-6.15	-8.29	-14.62	-10.25	-8.69	-12.38	-18.43	-8.65	-2.81	-1.24	-4.32	-5.18	-1.79	-3.29	-5.19	-8.31	-6.36	-5.24	-5.57	-6.93	-6.49	-4.29	-2.7	-2.95	-6.15
	θ (150°)	-8.33	-10.23	-11.55	-11.7	-12.62	-14.37	-12.46	-10.97	-12.46	-14.58	-14.45	-9.52	-5.82	-5.13	-7.07	-9.56	-11.06	-10.24	-8.48	-7.51	-6.87	-6.01	-6.55	-7.04	-8.33
	θ (165°)	-11.58	-12.3	-13.54	-14.42	-15.94	-16.43	-16.31	-15.46	-13.13	-11.28	-9.77	-9.79	-10.52	-11.03	-12.08	-15.01	-17.17	-17.48	-15.98	-14.18	-12.33	-10.99	-10.25	-10.46	-11.58
	θ (180°)																									
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB	φ (0°)	-28.18	-20.95	-15.56	-12.77	-11.3	-11.23	-11.01	-11.76	-13.59	-14.23	-18.43	-28.04	-28.8	-20.32	-15.39	-12.68	-11.01	-9.94	-9.41	-9.67	-10.93	-12.61	-15.81	-21.93	-28.18
	θ (15°)	-16.59	-20.4	-22.74	-17.39	-15.96	-14.15	-11.99	-10.46	-8.78	-9.7	-13.29	-20.09	-20.15	-16.23	-15.66	-15.43	-14.15	-13.52	-12.45	-12.39	-13.4	-12.12	-11.71	-13.35	-16.59
	θ (30°)	-12.98	-23.83	-19.64	-18.41	-14.19	-11.98	-12.96	-12.31	-10.99	-10.01	-8.97	-9.41	-15.66	-14.43	-11.31	-16.69	-18.3	-15.57	-16.5	-19.51	-16.96	-10.26	-7.7	-7.31	-12.98
	θ (45°)	-10.43	-14.43	-14.78	-11.99	-9.6	-14.78	-16.24	-15.46	-11.73	-9.03	-12.51	-14.31	-32.14	-12.84	-11.7	-14.29	-17.46	-13.95	-16.26	-19.8	-17.37	-18.27	-15.36	-11.29	-10.43
	θ (60°)	-25.42	-17.54	-13.32	-25.54	-8.73	-10.02	-11.79	-16.14	-17.35	-12.59	-9.75	-11.05	-18.9	-18.54	-16.86	-23.3	-23.56	-20.2	-23.44	-18.17	-16.1	-24.27	-20.42	-31.54	-25.42
	θ (75°)	-28.57	-17.98	-8.37	-9.1	-18.27	-18.65	-16.16	-24.69	-13.96	-13.3	-31.5	-19.55	-25.23	-19.86	-16.11	-42.09	-20.23	-18.42	-15.94	-19.54	-13.52	-15.45	-19.56	-13.87	-28.57
	θ (90°)	-21.19	-24.03	-18.57	-7.71	-8.91	-19.89	-13.18	-9.99	-10.57	-12	-13.35	-14.66	-14.57	-16.06	-11.35	-15.19	-17.79	-16.28	-26.82	-25.79	-10.74	-6.53	-7.14	-7.66	-21.19
	θ (105°)	-14.21	-12.32	-8.88	-10.73	-9.84	-20.81	-15.99	-8.44	-8.36	-14.81	-13.04	-21.73	-13.09	-17.21	-10.28	-9.35	-10.14	-11.44	-15.23	-12.96	-6.59	-6.91	-11	-12.71	-14.21
	θ (120°)	-8.84	-12.75	-5.34	-19.21	-7.8	-12.89	-11.53	-7.79	-8.44	-38.94	-15.26	-13.41	-16.28	-15.54	-7.85	-8.72	-6.93	-7.67	-7.75	-7.26	-7.23	-13.29	-14.85	-27.26	-8.84
	θ (135°)	-9.34	-16.15	-5.83	-6.41	-15.15	-8.87	-8.52	-6.57	-9.3	-11.87	-6.72	-16.24	-16.08	-14.72	-6.19	-9.83	-9.9	-11.12	-15.74	-14.2	-8.84	-12.11	-12.78	-10.02	-9.34
	θ (150°)	-5.85	-5.35	-4.86	-11.38	-9.19	-6.6	-7.85	-8.07	-8.59	-15.22	-11.41	-8.72	-12.89	-12.26	-8.13	-8.55	-12.51	-18.01	-24.59	-25.34	-19.73	-12.55	-11.24	-9.84	-5.85
	θ (165°)	-9.88	-14.12	-19.07	-8.49	-4.37	[-3.43]	-4.58	-8.32	-13.7	-20.85	-21.55	-15.22	-13.62	-14.49	-14.95	-13.81	-12.78	-11.03	-9.54	-8.94	-9.52	-11.71	-11.4	-9.8	-9.88
	θ (180°)	-13.9	-12.74	-11.23	-11.36	-14.19	-15.92	-14.24	-11.23	-11.4	-11.87	-14.43	-14.51	-12.99	-12.36	-11.73	-11.02	-11.47	-13.26	-13.45	-13.79	-15.3	-15.57	-15.23	-15.16	-13.9

Ant.	No.1																									
Freq. (MHz)	5350																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
dB																										
θ (0°)		-9.5	-9.41	-10.27	-11.59	-13.79	-17.85	-22.21	-20.1	-17.44	-13.7	-11.32	-10.63	-9.86	-9.79	-10.63	-11.91	-14.24	-17.16	-20.28	-18.55	-15.21	-12.45	-10.48	-9.47	-9.5
θ (15°)		-5.16	-4.97	-4.44	-4.89	-6.49	-8.16	-9.93	-12.95	-18.79	-24.97	-20.91	-21.27	-25.56	-39.29	-32.1	-20.25	-15.19	-10.77	-8.08	-6.47	-5.57	-5.68	-5.01	-4.68	-5.16
θ (30°)		-3.46	-4.32	-4.63	-3.54	-3.06	-5.49	-6.99	-9.37	-12.39	-12.56	-14.32	-19.15	-37.45	-15.47	-10.68	-10.55	-7.9	-6.9	-5.01	-3.53	-3.65	-4.97	-5.34	-4.53	-3.46
θ (45°)		-3.6	-2.34	-2.07	-5.78	-6.01	-2.84	-5.34	-5.9	-3.82	-4.5	-7.27	-11.16	-8.67	-6.08	-4.88	-3.73	-3.57	-1.34	-0.74	-0.7	-2.33	-5.14	-4.76	-4.74	-3.6
θ (60°)		-0.18	-1.77	-0.47	-5.03	-3.93	-2.12	-6.87	-6.88	-1.41	1.5	-0.24	-2.95	-7.33	-1.82	-0.21	-0.47	-0.18	-0.26	0.07	0.77	-1.24	-6.55	-2.69	-0.54	-0.18
θ (75°)		-0.51	-0.26	-0.44	-4.04	-4.35	-2.1	-8.14	-3.33	-3.34	-2.19	-0.99	-0.4	-4.37	0.22	1.15	0.83	0.26	0.12	-0.18	1.67	-0.59	-2.75	2.08	0.15	-0.51
θ (90°)		1.24	-0.32	-0.43	-1.66	-15.61	-0.21	-13.75	0.03	0.31	-1.96	-1.3	-0.68	-1.65	-1.5	1.08	2.92	2.36	0.64	0.73	3.5	2.11	-1.95	2.66	1.27	1.24
θ (105°)		1.97	-1.97	-3.87	-0.25	-14.91	-3.17	-10.56	-3.73	-3.64	-1.06	-2.09	-2.28	-2.34	-0.87	0.21	1.19	0.88	0.69	2.01	[3.60]	0.33	-1.42	2.24	1.77	1.97
θ (120°)		1.09	-2.11	-2.66	-3.32	-5.89	-13.02	-11.63	-2.72	-5.93	-3.34	-1.46	-0.63	-2.69	-4.06	-0.25	-0.31	-0.57	-2.63	-1.71	-0.45	-1.83	-4.64	-0.23	2.51	1.09
θ (135°)		0.69	-6.86	-4.02	-16.34	-6.1	-8.27	-6.09	-6.07	-4.08	-1.26	-1.08	0.19	-1.41	-1.69	-2.72	-1.3	-0.26	-1.44	-3.05	-1.96	-0.49	-1.88	-1.71	-1.04	0.69
θ (150°)		-6.52	-8.19	-14.41	-11.34	-7.76	-12.82	-18.69	-7.97	-2.63	-1.73	-5.72	-4.73	-2.11	-2.98	-4.99	-6.94	-5.31	-5.43	-7.66	-9.41	-8.2	-4.97	-3.08	-3.27	-6.52
θ (165°)		-9.93	-11.71	-12.38	-12.5	-13.99	-14.7	-11.03	-9.94	-13.55	-19.06	-12.77	-8.15	-5.47	-5.35	-7.24	-10.54	-11.53	-10.36	-9.42	-8.54	-8.22	-8.31	-8.33	-8.4	-9.93
θ (180°)		-13.06	-14.9	-15.2	-15.68	-16.18	-15.66	-15.27	-14.22	-12.16	-10.58	-10.58	-10.99	-12.13	-14.11	-15.77	-16.94	-18.91	-18.15	-14.68	-12.2	-10.42	-10.02	-10.26	-10.71	-13.06
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB																										
θ (0°)		-23.73	-21.75	-16.97	-13.65	-11.78	-10.55	-10.21	-10.7	-10.33	-12.37	-14.11	-16.59	-21.81	-19.96	-15.74	-13.43	-12.23	-11.09	-9.85	-10.27	-10.61	-11.67	-14.7	-18.09	-23.73
θ (15°)		-26.24	-19.5	-26.42	-18.44	-12.7	-10.88	-9.89	-8.58	-9.35	-10.76	-17.04	-27.51	-21.66	-21.49	-18.69	-15.17	-12.29	-10.73	-10.89	-12.03	-13.94	-14.88	-16.96	-18.7	-26.24
θ (30°)		-10.81	-22.54	-24.69	-17.16	-12.45	-10.22	-9.72	-9.3	-9.34	-10.78	-9.75	-10.39	-20.89	-15.6	-17.03	-18.56	-12.15	-13.76	-17.39	-21.52	-20.48	-12.02	-7.27	-6.2	-10.81
θ (45°)		-11.43	-15.38	-10.38	-8.92	-8.79	-15.48	-22.89	-18.25	-11.56	-9.48	-14.12	-11.92	-17.4	-14.55	-13.02	-12.02	-15.68	-13.6	-18.27	-19.92	-19.38	-13.56	-13.07	-14.56	-11.43
θ (60°)		-35.23	-20.78	-12.41	-16.55	-11.5	-14.14	-18.94	-21.94	-13.13	-15.49	-11.6	-12.33	-22.41	-22.79	-22.8	-17.04	-29.53	-16.91	-32.56	-28.11	-22.05	-26.58	-18.26	-22.65	-35.23
θ (75°)		-23.93	-14.03	-11.1	-9.38	-14.96	-20.5	-27.23	-17.51	-11.85	-9.82	-29.3	-26.38	-18.23	-26.73	-24.36	-23.18	-25.65	-20.73	-15.31	-13.02	-13.05	-16.86	-24	-17.54	-23.93
θ (90°)		-23.35	-20.34	-27.04	-10.66	-9.4	-17.61	-15.78	-11.26	-15.81	-9.74	-12.52	-17.76	-20.45	-13.06	-11.35	-17.48	-16.44	-15.19	-20.4	-21.27	-13.86	-6.63	-8.21	-9.97	-23.35
θ (105°)		-17.64	-11.31	-6.54	-8.98	-8.89	-23.77	-13.04	-8.17	-8.99	-13.94	-12.64	-22.69	-14.56	-16.57	-9.26	-10.34	-11.68	-12.51	-18.84	-16.49	-6.08	-5.08	-9.67	-13.68	-17.64
θ (120°)		-6.19	-12.56	-4.48	-15.73	-6.08	-11.48	-11.18	-8.18	-8.35	-28.34	-16	-17.4	-19.72	-12.03	-9.06	-12.58	-7.9	-7.7	-7.29	-7.51	-7.43	-17.11	-11.31	-29.26	-6.19
θ (135°)		-8.14	-11.31	-8	-7.64	-16.76	-8.03	-7.5	-8.8	-9.29	-11.78	-6.73	-15.74	-14.56	-14.54	-6.23	-11.16	-7.7	-11.48	-14.84	-14.49	-7.83	-8.4	-15.36	-9.59	-8.14
θ (150°)		-5.31	-5.31	-4.46	-10.53	-14.37	-8.55	-9.01	-10.49	-9.69	-17.25	-10.9	-8.65	-12.76	-10.94	-7.52	-9.25	-13.08	-18.97	-22.37	-19.91	-18.12	-15.43	-9.71	-8.14	-5.31
θ (165°)		-8.65	-11.13	-17.71	-9.83	-5.06	[-4.12]	-6.37	-11.76	-19.03	-23.39	-22.06	-15.02	-15.81	-21.34	-18.48	-14.23	-12.51	-12.35	-11.67	-10.27	-10.55	-10.51	-10.68	-9.71	-8.65
θ (180°)		-12.52	-11.41	-9.77	-10.6	-14.04	-19.85	-17.13	-12.54	-12.2	-14.58	-12.86	-11.43	-11.45	-11.37	-11.78	-12.31	-12.8	-12.54	-13.7	-16.23	-16.95	-17.89	-17.86	-16.37	-12.52



Ant.	No.1																									
Freq. (MHz)	5500																									
Polarity	Theta																									
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)	
	θ (0°)	-10.01	-10.86	-11.68	-12.82	-14.74	-15.99	-18.39	-18.21	-15.62	-13.65	-11.7	-10.42	-9.88	-9.78	-10.87	-12.17	-14.34	-17.35	-19.62	-18.5	-16.21	-14.26	-12.25	-10.72	-10.01
θ (15°)	-4.08	-3.79	-3.9	-3.92	-4.6	-7.12	-10.27	-13.45	-17.43	-24.88	-33.5	-25	-23.24	-22.7	-21.1	-18.68	-12.34	-9.2	-7.55	-6.86	-6.61	-6.74	-6.04	-5	-4.08	
θ (30°)	-2.42	-3.48	-3.78	-3.57	-2.81	-3.6	-5.93	-8.12	-14.39	-31.99	-18.05	-16.77	-14.79	-8.97	-11.4	-12.27	-7.78	-5.93	-4.06	-2.58	-1.55	-1.57	-3.16	-3.66	-2.42	
θ (45°)	-6.13	-3.5	-1.42	-2.79	-8.99	-3.52	-5.43	-6.54	-5.53	-8.38	-9.62	-7.64	-6.25	-4.07	-3.68	-5.26	-2.35	-0.76	-0.45	-0.48	-1.23	-2.8	-2.63	-1.87	-6.13	
θ (60°)	-0.92	-1.15	-0.93	-3.05	-3.39	-0.18	-3.85	-4.35	-0.42	0.98	-3.16	-4.97	-3.81	-0.26	-0.98	-0.9	-0.52	0.09	0.45	1.23	-1.49	-4.86	-2.16	-0.15	-0.92	
θ (75°)	-1.1	-0.96	0.26	-5.65	-1.04	-0.85	-9.64	-4.61	-5.19	-0.92	-2.24	-1.39	-2.75	1.21	-0.41	0.15	-0.79	-1.08	-0.13	1.28	-2.57	-1.8	1.36	-0.59	-1.1	
θ (90°)	1.49	-0.78	0.19	-1.81	-6.51	-1.42	-16.74	0.04	-0.11	-3.18	-3.49	-0.13	-0.13	-0.24	0.39	3.1	0.37	0.62	0.38	3.29	2.22	0.06	2.36	0.74	1.49	
θ (105°)	2.8	-4.31	-4.48	0.76	-20.61	-2.41	-9.93	-3.09	-4.54	-0.23	-3.72	-1.27	-2.47	0.07	-0.16	0.8	-0.21	-0.1	1.68	2.88	0.04	0.49	2.12	1.11	2.8	
θ (120°)	1.06	-4.02	-1.08	-4.41	-2.06	-15.38	-10.86	-3.57	-8.86	-3.33	-1.05	-1.53	-1.34	-3.82	-0.2	0.53	-1.25	-1.9	-0.74	0.7	0.4	-3.88	-1.75	[3.32]	1.06	
θ (135°)	1.13	-2.7	-5.4	-13.11	-7.71	-8.12	-4.9	-7.14	-3.4	-1.66	-0.6	-0.07	-1.46	-2.86	-2.29	-0.6	-0.32	-2.68	-5.03	-2.43	-0.2	-2.81	-3.58	0.34	1.13	
θ (150°)	-7.34	-8.27	-11.03	-13.06	-7.11	-11.76	-18.43	-5.86	-3.37	-3.12	-6.39	-3.5	-2.65	-3.22	-5.32	-6.4	-7.13	-9.09	-10.13	-10.94	-10.04	-6.44	-3.03	-2.61	-7.34	
θ (165°)	-13.19	-12.37	-9.91	-9.43	-11.85	-13.93	-11.12	-10.42	-15.34	-15.49	-9.5	-6.09	-4.77	-6.02	-9.01	-12.15	-13.31	-13.17	-13.93	-13.39	-10.74	-10.17	-9.89	-10.3	-13.19	
θ (180°)	-15.59	-16.95	-15.44	-13.32	-11.98	-10.56	-10.31	-10.91	-11.48	-11.43	-11.5	-11.96	-13.51	-15.84	-17.54	-16.89	-14.37	-12.2	-10.15	-9.21	-8.77	-8.09	-8.95	-11.42	-15.59	
Polarity	Phi																									
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)	
	θ (0°)	-20.38	-20.37	-16.65	-14.01	-12.61	-10.74	-10.24	-10.87	-11.81	-13.57	-16.16	-17.85	-18.82	-18.06	-14.93	-12.79	-11.7	-10.72	-9.84	-10.26	-11.4	-12.26	-14.28	-16.28	-20.38
θ (15°)	-20.78	-27.14	-24.14	-16.75	-10.99	-8.67	-7.56	-8.56	-10.65	-12.42	-15.74	-21.57	-37.38	-28.41	-24.81	-15.67	-12.71	-12.75	-14.34	-14.78	-14.98	-14.66	-12.62	-13.86	-20.78	
θ (30°)	-11.03	-14.89	-17.36	-12.76	-12.9	-11.44	-9.26	-8.38	-7.34	-9.33	-9.57	-10.4	-19.74	-17.26	-21.8	-10.08	-10.26	-10.52	-12.89	-17.92	-23.73	-15.23	-9.63	-8.67	-11.03	
θ (45°)	-10.34	-17.04	-11.07	-8.77	-8.28	-15.26	-23.18	-16.01	-9.53	-6.94	-20.42	-10.29	-17.17	-13.61	-10.53	-11.76	-11.19	-11.72	-20.97	-29.87	-39.62	-16.16	-10.04	-11.08	-10.34	
θ (60°)	-24.81	-15.62	-18.08	-14.22	-8.25	-13.5	-25.09	-13.19	-10.95	-20.25	-10.76	-17.04	-19.17	-18.47	-13.21	-9.1	-15.56	-18.76	-23.81	-19.86	-20.98	-29.63	-16.42	-13.93	-24.81	
θ (75°)	-21.25	-11.21	-15	-12.31	-18.73	-13.58	-13.38	-13.02	-9.73	-10.08	-29.01	-26.34	-19.37	-14.75	-20.84	-13.44	-13.37	-19.13	-25.37	-18.45	-13.78	-26.85	-11.92	-18.76	-21.25	
θ (90°)	-13.59	-17.38	-25.47	-11.72	-14.98	-28.66	-12.6	-14.61	-17.19	-10.4	-10.62	-19.92	-20.7	-14.47	-10.98	-18.72	-11.8	-14.21	-18.17	-29.53	-17.71	-11.15	-9.75	-12.66	-13.59	
θ (105°)	-15.33	-12.63	-6.48	-5.24	-6.69	-18.34	-11.45	-10.09	-9.71	-12.32	-16.01	-11.55	-16.12	-13.95	-11.4	-10.22	-9.3	-9	-16.12	-19.74	-7.61	-3.94	-6.38	-12.87	-15.33	
θ (120°)	-7.2	-15.45	-6.5	-11.45	[-3.81]	-7.22	-12.01	-11.08	-9.56	-22.66	-17.67	-17.74	-23.25	-7.65	-10.23	-15.61	-7.3	-7.85	-9.17	-8.35	-6.81	-17.34	-12.92	-19.47	-7.2	
θ (135°)	-8.83	-8.22	-10.52	-8.1	-12.91	-10.94	-7.84	-8.72	-10.13	-9.76	-6.95	-11.45	-21.2	-11.72	-7.04	-7.91	-7.25	-9.71	-9.75	-15.4	-10.08	-4.03	-15.79	-13.25	-8.83	
θ (150°)	-5.97	-7	-4.9	-7.87	-22.83	-15.53	-11.42	-10.26	-9.83	-19.3	-7.87	-10.06	-9.94	-15.03	-11.39	-7.42	-9.12	-10.94	-14.18	-16.09	-14.07	-10.9	-12.01	-14.31	-6.7	-5.97
θ (165°)	-5.83	-7.38	-14.76	-13.69	-6.03	-4.77	-7.59	-13.15	-17.23	-19.51	-16.89	-15.58	-21.99	-17.89	-12.56	-10.96	-11.16	-10.72	-9.63	-8.86	-7.79	-7.6	-8.74	-7.97	-5.83	
θ (180°)	-10.87	-10.68	-10.11	-10.51	-15.32	-36.5	-16.16	-11.35	-10.32	-10.91	-9.35	-8.87	-9.41	-9.55	-10.21	-11.35	-12.4	-14.51	-16.83	-18	-20.3	-18.91	-15.71	-11.36	-10.87	

Ant.	No.1																									
Freq. (MHz)	5650																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
dB	φ (0°)	-13.54	-14.52	-15.27	-18.61	-22.37	-20.81	-17.05	-15.48	-14.75	-13.13	-13.16	-14.28	-15.29	-16.98	-18.77	-22.46	-24.87	-25.43	-20.8	-17.2	-14.24	-13.09	-12.68	-12.25	-13.54
	θ (0°)	-4	-3.47	-3.35	-3.08	-3.93	-5.09	-6.92	-10.39	-16.14	-28.13	-27.59	-20.04	-14.88	-15.15	-20.85	-21.39	-14.5	-12.4	-11.04	-8.46	-6.74	-5.53	-4.74	-4.71	-4
	θ (15°)	-0.62	-1.61	-4.14	-4.77	-4.34	-3.11	-4.85	-8.86	-15.9	-23.37	-17.15	-12.63	-7.73	-8.48	-12.67	-10.64	-13.4	-11.38	-8.3	-6.14	-3.69	-1.1	-0.88	-1.93	-0.62
	θ (30°)	-1.14	-4.48	-1.47	-1.23	-6.99	-5.81	-8.29	-11.02	-10.8	-13.28	-6.42	-6.77	-5.46	-6.2	-10.16	-5.02	-2.46	-2.06	-2.2	-0.54	-1.74	-4.18	-2.25	-0.4	-1.14
	θ (45°)	-0.88	-1.77	-0.65	-2.31	-8.56	-0.65	-4.85	-5.32	-1.7	-0.69	-4.56	-3.46	-2.55	-0.92	-2.73	0.05	0.65	1.24	1.04	2.81	0.67	-8.75	-1.84	1.24	-0.88
	θ (60°)	-4.47	0.2	0.19	-4.21	-1.5	0.22	-6.87	-4.67	-4.46	-0.95	-0.87	0.78	-2.74	-0.61	0.46	0.25	2.27	0.32	0.96	2.66	-1.43	-2.49	1.6	-0.38	-4.47
	θ (75°)	1.19	-0.31	-1.32	-2.12	-5.28	-1.83	-18.61	-0.59	-0.45	-3.34	-7.32	1.95	0.51	-2.28	0.37	1.94	2.03	1.55	-1.18	3.43	2.66	-1.19	2.32	-0.03	1.19
	θ (90°)	2.59	-4.75	-6.02	2.13	-16.91	-0.13	-10.91	-4.26	-3.81	-0.63	-5.84	0.9	-2.8	-0.16	-0.78	0.19	0.52	1.35	2.12	[3.90]	0.44	0.33	2.08	0.65	2.59
	θ (105°)	1.97	-7.41	-0.74	-4.69	-0.73	-9.81	-9.65	-3.33	-9.53	-2.12	-1.27	-0.25	-1.66	-3.56	-1.1	0.79	-2.13	-0.2	-0.58	0.43	1.85	-1.38	-2.38	3.69	1.97
	θ (120°)	2.22	-2.36	-5.94	-14.42	-6.97	-6.2	-5.25	-6.34	-2.44	-0.73	0.95	0.52	-1.35	-2.83	-3.48	-0.52	-1.8	-5.89	-5.63	-1.53	0.16	-2.55	-4.53	0.68	2.22
	θ (135°)	-6.48	-11.78	-12.16	-12.68	-6.25	-12.9	-14.55	-5.75	-4.73	-3.9	-5.62	-4.78	-3.16	-2.2	-6.05	-9.4	-8.3	-7.16	-7.4	-9.3	-7.75	-4.24	-2.37	-2.16	-6.48
	θ (150°)	-13.73	-18.52	-10.34	-7.2	-9.15	-15.53	-11.92	-9.89	-13.35	-14.08	-8.19	-5.27	-4.62	-6.4	-9.74	-13.03	-14.14	-16.43	-16.98	-15.24	-12.98	-11.95	-10.28	-10.08	-13.73
	θ (165°)	-12.19	-13.54	-14.59	-14.13	-11.47	-10.46	-10.45	-11.82	-12.41	-12.57	-12.17	-11.54	-12.22	-14.03	-17.46	-20.31	-17.48	-13.6	-11.12	-9.04	-8.32	-7.68	-7.96	-9.71	-12.19
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB	φ (0°)	-16.55	-15.56	-14.27	-13.57	-13.5	-14.76	-17.35	-17.59	-21.38	-27.56	-29.94	-21.17	-18.25	-17.46	-15.22	-13.37	-12.43	-13	-14.32	-15.63	-17.9	-19.36	-21.18	-18.26	-16.55
	θ (15°)	-14.68	-28.39	-20.36	-16.13	-13.43	-10.62	-8.63	-8.19	-9	-13.43	-19.56	-29.06	-26.76	-30.33	-17.54	-14.07	-14.61	-16.24	-16.2	-15.55	-14.22	-13.6	-12.67	-11.96	-14.68
	θ (30°)	-7.9	-12.7	-18.85	-12.74	-10.29	-8.91	-7.07	-6.07	-7.8	-9.41	-9.57	-17.59	-16.98	-28.56	-12.35	-9.68	-11.19	-12.07	-13.67	-21.05	-25.4	-23.69	-15.04	-7.73	-7.9
	θ (45°)	-5.63	-15.11	-18.18	-17.91	-11.62	-22.14	-23.74	-14.23	-7.58	-8.02	-15.04	-9.15	-13.91	-9.79	-7.52	-15.25	-8.63	-11.65	-15.71	-15.17	-12.99	-18.06	-8.89	-6.11	-5.63
	θ (60°)	-13.01	-16.88	-13.8	-19.91	-8.53	-12.09	-17.99	-9.6	-7.56	-20.61	-11.5	-20.86	-18.69	-13.45	-8.06	-11.8	-10.59	-15.25	-23.84	-27.34	-13.41	-13.92	-12.94	-21.12	-13.01
	θ (75°)	-15.14	-11.88	-15.53	-10.48	-23.31	-11.99	-8.75	-10.09	-7.28	-9.47	-19.61	-19.87	-16.77	-11.83	-13.81	-11.57	-16.45	-28.39	-18.62	-30.71	-13.25	-17.06	-10.68	-18.77	-15.14
	θ (90°)	-15.02	-8.63	-8.7	-15.29	-8.77	-13.46	-19.75	-12.26	-17.07	-8.39	-15.07	-12.79	-16.95	-14.84	-15.91	-14.31	-9.78	-10.98	-10.53	-12.66	-17.19	-15.14	-9.27	-13.24	-15.02
	θ (105°)	-8.94	-20.27	-11.06	-3.98	-6.16	-10.91	-8.01	-9.54	-12.94	-14.1	-13.57	-10.25	-16.61	-14.56	-12.19	-10.14	-7.35	-10.81	-21.92	-28.47	-8.49	-4.06	-4.74	-6.44	-8.94
	θ (120°)	-6.41	-7.47	-9.9	-12.59	[-3.51]	-6.26	-12.43	-10.08	-11.8	-16.33	-11.36	-13.92	-18.11	-9.89	-17.11	-6.49	-6.93	-9.47	-10.13	-10.11	-7.22	-10.7	-12.35	-22.64	-6.41
	θ (135°)	-10.13	-8.44	-12.93	-9.72	-8.89	-8.92	-4.65	-9.48	-7.75	-13.05	-7.94	-8.68	-35.93	-9.98	-8.27	-7.72	-8.73	-8.83	-9.13	-17.72	-13.8	-4.26	-10.91	-15.56	-10.13
	θ (150°)	-4.86	-7.59	-6.56	-7.64	-14.47	-12.07	-9.37	-9.76	-9.73	-22.32	-8.17	-10.14	-15.86	-11.29	-7.95	-11.03	-12.29	-14.38	-13.54	-11.72	-11.99	-11.57	-14.84	-6.97	-4.86
	θ (165°)	-6.14	-6.5	-11.74	-19.18	-6.12	-3.56	-5.06	-10.77	-22.77	-14.69	-12.81	-15.94	-21.45	-11.37	-7.62	-7.4	-9.23	-9.42	-8.98	-9.29	-8.41	-8.69	-9.62	-9.11	-6.14
	θ (180°)	-10.97	-10.82	-10.87	-11.28	-13.79	-27.06	-17.56	-12.87	-11.8	-12.08	-12.49	-11.2	-10.58	-10.04	-9.7	-9.5	-10.33	-12.39	-14.36	-14.8	-18.41	-20.69	-14.12	-11.31	-10.97



BUREAU VERITAS

Ant.	No.1																									
Freq. (MHz)	5850																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
θ (0°)	-17.88	-17.57	-16.31	-15.61	-15.19	-15	-17.02	-19.86	-23.74	-23.11	-19.3	-16.74	-16.73	-16.03	-15.59	-14.88	-14.73	-16.08	-18.45	-21.1	-23.67	-22.29	-19.95	-17.54	-17.88	
θ (15°)	-4.25	-3.78	-2.92	-2.83	-4.76	-8.07	-11.71	-18.75	-21.66	-19.66	-18.31	-12.07	-9.43	-12.06	-21.83	-18.82	-14.73	-10.96	-9.1	-9.48	-10.63	-9.21	-6.32	-4.64	-4.25	
θ (30°)	-0.76	-0.89	-3.02	-2.94	-4.1	-4.86	-6.49	-8.91	-14.6	-16.44	-13.57	-8.82	-6.3	-9.34	-9.89	-13.06	-15.16	-7.88	-4.36	-4.72	-8.66	-9.71	-4.04	-1.15	-0.76	
θ (45°)	0.17	-2.01	-0.24	-1.22	-2.67	-2.03	-4.27	-6.47	-6.73	-7.7	-8.31	-5.51	-5.36	-5.79	-6.36	-5.87	-3.06	-2.16	-0.36	1.14	-0.42	-2.32	-2.11	-2.01	0.17	
θ (60°)	0.1	-2.02	-0.7	0.04	-14.72	-1.43	-5.48	-4.97	-0.85	-0.57	-5.13	-6.17	-3.68	-1.78	-2.23	-0.46	1.75	0.2	0.31	[3.06]	0.28	-5.31	-2.25	-2.36	0.1	
θ (75°)	-4.87	-0.63	-0.57	-4.32	-2.83	-0.39	-6.4	-3.34	-3.3	-1.44	-0.61	-2.75	-5.29	0.37	0.1	2.19	2.67	-1.24	1.17	2.3	-6.55	-1.46	0.74	-4.55	-4.87	
θ (90°)	0.34	0.75	-1.97	-2.02	-4.15	-1.02	-10.4	-2.12	-2.26	-3.74	-10.81	0.85	-3.34	-1.48	-0.15	1.83	1.9	-2.28	-1.66	2.07	-1.52	-0.23	1.3	-4.91	0.34	
θ (105°)	1.95	-0.31	-6.87	1.37	-10.65	-2.27	-9.11	-4.46	-4.13	-1.94	-3.78	-2.14	-4.23	-0.62	-0.65	0.5	0.97	1.11	2.36	2.95	-2.65	-0.46	0.65	-2.58	1.95	
θ (120°)	2.42	-1.24	-4.41	-7.09	-2.04	-10.66	-10.55	-6.96	-11.51	-2.51	-1.26	-0.84	-5.71	-2.21	-0.08	0.45	-0.35	0.12	-1.19	1.3	0.65	-4.37	-2.79	2.41	2.42	
θ (135°)	2.31	-0.33	-8.05	-16.03	-6.11	-5.29	-8.03	-5.43	-2.14	-1.73	0.51	-2.86	-4.24	-3.04	-2.17	-1.04	-3.52	-3.82	-2.86	-0.42	-0.97	-2.71	-2.89	0.28	2.31	
θ (150°)	-3.97	-7.47	-5.62	-22.47	-7.5	-8.86	-12.51	-6.78	-4.71	-2.81	-8.47	-5.63	-3.35	-2.98	-8.84	-6.64	-3.49	-3.88	-6.72	-8.83	-6.68	-4.13	-2.94	-2.62	-3.97	
θ (165°)	-5.05	-8.51	-16.85	-12.98	-10.49	-11.17	-9.06	-9.04	-12.45	-19.32	-12.07	-7.79	-7.45	-9.4	-11.19	-12.34	-12.38	-12.62	-11.91	-11.76	-10.51	-7.99	-5.76	-4.82	-5.05	
θ (180°)	-13.54	-16.74	-25.47	-27.44	-18.09	-15.38	-13.67	-13.37	-12.71	-11.74	-11.42	-11.74	-12.27	-13.75	-15.26	-19.1	-24.58	-21.06	-16.4	-12.02	-9.71	-8.9	-8.52	-9.86	-13.54	
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
θ (0°)	-21.6	-24.42	-27.18	-36.08	-32.38	-22.08	-18.4	-15.83	-13.3	-12.61	-13.98	-15.36	-17.64	-20.81	-24.55	-24.52	-20.18	-17.96	-16.75	-16.02	-16.11	-15.98	-17.77	-17.72	-21.6	
θ (15°)	-23.03	-19.13	-18.16	-9.6	-6.87	-7.19	-8.79	-11.24	-14.28	-24.53	-20.01	-18.65	-18.69	-12.07	-9.81	-9.76	-10.62	-13.08	-18.09	-34.38	-28.18	-23.01	-18.21	-20.13	-23.03	
θ (30°)	-9.68	-15.44	-24.23	-24.86	-13.08	-7	-6.74	-6.1	-7.16	-8.91	-11.01	-19.61	-17.39	-17.67	-14.04	-14.57	-12.16	-13.38	-15.61	-17.85	-23.31	-15.99	-9.33	-11.75	-9.68	
θ (45°)	-5.22	-7.43	-8.8	-8.23	-8.5	-11.17	-11.42	-9.26	-8.25	-15.74	-9.03	-10.81	-16.42	-15.66	-16.55	-9.12	-7.06	-11.16	-12.4	-12.16	-12.38	-19.24	-10.25	-7.79	-5.22	
θ (60°)	-14.52	-19.8	-10.77	-18.27	-7.7	-15.01	-20.76	-9.23	-9.79	-18.35	-12.39	-18.18	-26.2	-13.28	-7.96	-11.04	-5.71	-10.85	-12.92	-12.89	-10.9	-16.25	-19.9	-17.73	-14.52	
θ (75°)	-21.7	-10.75	-10.44	-12.03	-25.66	-16.49	-9.52	-6.09	-7.2	-12.58	-19.45	-14.79	-19.3	-8.87	-10.94	-19.96	-14.88	-17.33	-24.73	-40.13	-19.13	-26.32	-9.48	-20.91	-21.7	
θ (90°)	-20.92	-10.01	-6.07	-12.66	-18.77	-20.43	-12.56	-10.97	-10.93	-14.81	-16.86	-28.11	-13.3	-28.91	-21.04	-22.84	-21.59	-16.25	-11.22	-8.98	-11.9	-17.37	-7.42	-11.08	-20.92	
θ (105°)	-10.24	-16.18	-11.48	-8.93	-9.94	-10.46	-6.48	-7.33	-10.89	-11.89	-13.35	-11.04	-15.65	-11.26	-11.17	-13.14	-11.74	-12.02	-7.23	-10.87	-12.51	-8.72	[-3.72]	-5.68	-10.24	
θ (120°)	-14.44	-6.62	-9.76	-11.59	-4.25	-6.71	-11.85	-10.14	-10.12	-21.49	-12.37	-17.32	-18.76	-13.66	-13.55	-3.78	-7.82	-14.45	-21.71	-12.71	-5.95	-12.44	-12.2	-21.87	-14.44	
θ (135°)	-15.45	-7.61	-13.04	-7.03	-5.97	-8.7	-6.09	-7.54	-6.49	-10.91	-8.48	-11.19	-15.38	-10.56	-17.46	-8.93	-8.08	-7.49	-14.05	-14.82	-20.6	-5.28	-10.71	-12.64	-15.45	
θ (150°)	-4.72	-7.94	-6.27	-6.89	-24.1	-12.31	-8.4	-6.68	-7.84	-20.77	-8.31	-16.99	-16.26	-13.98	-9.34	-11.63	-14.35	-20.29	-15.69	-12.05	-17.81	-9.72	-8.15	-12.63	-4.72	
θ (165°)	-7.97	-6.43	-9.32	-34.14	-9.71	-5.41	-5.86	-11.56	-36.34	-16.4	-13.64	-21.43	-20.01	-13.65	-10.76	-10.45	-11.48	-13.81	-14.56	-13.87	-11.23	-12.23	-18.96	-17.12	-7.97	
θ (180°)	-15.01	-13.27	-11.6	-11.44	-14.49	-23.22	-28.01	-21.88	-20.82	-24.32	-21.2	-17.19	-13.05	-10.8	-10.11	-9.72	-10.22	-11.52	-12.92	-12.79	-14.84	-19.66	-24.01	-20.79	-15.01	



Ant.	No.2																									
Freq. (MHz)	5150																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
θ (0°)	-18.6	-15	-12.3	-10.5	-9.37	-9.09	-9.28	-9.86	-11.3	-14	-18.3	-28.6	-21.7	-15	-11.7	-9.64	-8.69	-8.53	-8.7	-9.25	-11	-14	-17.8	-24.2	-18.6	
θ (15°)	-10.7	-10.7	-11.4	-12.4	-13.2	-13.3	-11.1	-9.08	-8.87	-11.4	-18.6	-24.4	-17.2	-13.6	-9.96	-7.42	-5.36	-4.05	-3.25	-2.9	-3.35	-5.06	-7.9	-9.91	-10.7	
θ (30°)	-8.89	-6.89	-9.77	-21.6	-22.6	-18.2	-16.7	-11.7	-7.52	-6.58	-9	-18.9	-11.2	-7.95	-6.66	-3.43	-1.45	-1.31	-1.41	-1.29	-0.04	0.67	-1.54	-7.09	-8.89	
θ (45°)	-11.4	-10.1	-17.4	-11.9	-14.1	-11.5	-12.9	-9.43	-8.36	-9.07	-8.74	-17.1	-10.6	-6.81	-4.21	-2.35	-1.34	-2.8	-6.07	-4.2	-0.04	1.73	-0.33	-5.9	-11.4	
θ (60°)	-16.8	-10.7	-10.2	-16.2	-5.76	-5.53	-8.06	-7.65	-10.6	-9.98	-6.92	-5.79	-4.98	-11.7	-5.98	-1.5	-1.19	-2.83	-3.97	-2.17	1.45	1.46	0.32	-4.04	-16.8	
θ (75°)	-12.7	-8.9	-6.7	-5.37	-6.16	-2.98	-1.92	-0.16	-3.32	-11.9	-9.55	-4.36	-0.93	-16.2	-6.23	-0.72	1.26	0.1	-2.05	0.95	4.61	-1.36	-1.43	-4.34	-12.7	
θ (90°)	-7.59	-1.13	-1.44	-16.1	1.4	2.18	-3.35	1.43	0.83	-2.43	-3.58	-4	-0.98	-10.5	-9.72	-4.91	0.04	1.34	-1.23	-2.12	[4.63]	-3.42	-5.13	-3.09	-7.59	
θ (105°)	-3.5	-1.84	-8.9	-7.52	-0.5	-2.46	-1.71	2.13	-0.49	-2.65	-0.3	-1.57	0.57	-6.61	-9.06	-6.52	-1.87	-1.61	-9.42	-2.97	2.02	-12	-4.24	-5.5	-3.5	
θ (120°)	-0.83	-4	-7.51	-8.71	-4.26	-10.6	-2.24	0.61	-1.95	-5.9	-2.59	-2.72	-0.53	-1.76	-7.06	-10	-4.79	-6.24	-7.44	-6.46	-5.51	-11.3	-12.9	-4.78	-0.83	
θ (135°)	-6.18	-13	-9.21	-11.5	-12.7	-5.2	-1.34	-2.48	-9.49	-4.39	-1.33	-2.4	-3.94	-4.12	-18.3	-14.9	-12.4	-14.5	-12.7	-13.7	-14.1	-6.65	-10.9	-6.12	-6.18	
θ (150°)	-2.67	-2.99	-7.62	-16.7	-13	-7.62	-7.23	-8.72	-8.33	-7.68	-6.46	-4.32	-6.61	-12.5	-14.4	-8.67	-9.81	-12.5	-30.1	-15.7	-17	-12.7	-9.12	-6.12	-2.67	
θ (165°)	-13.4	-12.1	-13.2	-14.4	-12.3	-9.52	-9.41	-14	-25.5	-11.2	-8.64	-10.8	-15.6	-14.3	-13.4	-14.1	-14.6	-19.4	-18.6	-11.9	-9.47	-11.3	-19.5	-25.2	-13.4	
θ (180°)	-9.92	-11	-11.8	-12.3	-12.1	-11.2	-9.54	-8.13	-7.27	-6.67	-6.73	-7.68	-8.92	-10.2	-11.3	-11.8	-11.3	-9.78	-8.53	-7.5	-6.83	-6.83	-7.31	-8.26	-9.92	
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
θ (0°)	-7.61	-7.86	-8.89	-11	-14.5	-18.5	-21.4	-16.9	-13	-10.5	-8.95	-8.3	-8.43	-9.13	-10.4	-12	-15.3	-19.6	-19.7	-14.5	-11.5	-10.2	-8.79	-7.99	-7.61	
θ (15°)	-7.36	-5.57	-4.31	-4.24	-4.94	-6.06	-7.99	-12	-14.7	-10.3	-7.83	-7.28	-7.08	-6.52	-6.61	-7.24	-8.03	-9.61	-12.7	-20.9	-18.6	-11.7	-9.21	-8.47	-7.36	
θ (30°)	-5.01	-3.32	-0.72	-1.57	-4.55	-7.29	-9.96	-12.2	-14.5	-9.05	-5.39	-4.78	-5.18	-4.75	-3.18	-2.03	-3.01	-5.52	-9.52	-14.5	-16.5	-8.23	-3.67	-3.51	-5.01	
θ (45°)	-3.12	-2.58	-3.21	-8.71	-5.88	-9.36	-13.6	-13.5	-17.4	-7.21	-3.47	-5.63	-6.2	-3.48	-1.21	-2.3	-4.76	-10.8	-22.7	-26	-12.7	-4.12	-0.97	-0.89	-3.12	
θ (60°)	-4.23	-0.76	1.39	-1.31	-6.46	-17.6	-29.7	-11.9	-9.96	-11.5	-3.31	-3.32	-3.68	-3.56	-1.68	-2.39	-9.39	-11	-11.2	-12.5	-5.33	0.08	1.31	-2.15	-4.23	
θ (75°)	-7.21	-4.23	-0.73	-3	-14.3	-29.5	-14.3	-12.9	-2.74	-2.94	-11.2	-9.8	-1.94	-3.28	-3.22	-6.72	-10	-12.1	-16.2	-7.92	-4.83	-5.75	-2.86	-2.32	-7.21	
θ (90°)	-7.09	-3.92	-2.44	-8.96	-14.6	-17.4	-14.4	-13.3	-5.52	0.37	0	-6.93	-3.93	-1.35	-2.88	-4.44	-5.46	-7.66	-12.1	-17.8	-11.4	-5.86	-5.57	-3.62	-7.09	
θ (105°)	-5.78	-2.15	-0.88	-5.13	-18.2	-19.6	-23.9	-11	-3.12	1.08	[2.14]	-1.69	-1.19	-0.66	-4.46	-6.55	-8.35	-9.14	-17.9	-25.8	-14.8	-7.19	-7.86	-5.84	-5.78	
θ (120°)	-16.7	-8.96	-3.26	-3.24	-11.3	-15.1	-14.8	-13.1	-4.83	1.03	0.08	-0.45	-0.3	-0.53	-3.5	-5.53	-7.2	-8.28	-11.1	-21.9	-7.97	-16.8	-6.02	-13.6	-16.7	
θ (135°)	-13.6	-14.2	-12.5	-14.9	-10.3	-14.2	-18.5	-11.3	-7.15	-3.04	-1.25	-5.02	-4.26	-0.77	-6.7	-13	-13.4	-10.1	-13.1	-11.4	-7.24	-9.86	-9.77	-13.7	-13.6	
θ (150°)	-2.16	-4.24	-9.12	-7.08	-5.33	-8.3	-35.1	-12.5	-10.4	-8.73	-5.76	-3.64	-4.31	-4.61	-4.59	-11.6	-9.82	-5.54	-7.13	-9.49	-7.26	-14.7	-19.7	-10.2	-2.16	
θ (165°)	-11.9	-15	-27.7	-22.9	-17.4	-21.4	-24.1	-16	-14.6	-10.7	-7.34	-5.89	-6.71	-9.55	-12.1	-16.5	-28.7	-14.8	-12.4	-13.8	-21.9	-23	-16.6	-13.8	-11.9	
θ (180°)	-9.75	-9.92	-9.89	-10.1	-10.1	-10.1	-10.7	-12.1	-13.4	-13.2	-11.1	-9.38	-9.03	-8.45	-8.1	-8.59	-9.6	-10.7	-13.4	-15.2	-15.9	-13.9	-12	-10.7	-9.75	

Ant.	No.2																									
Freq. (MHz)	5250																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
dB																										
θ (0°)		-32	-19.7	-13.6	-10.6	-8.91	-7.95	-7.48	-8.24	-9.14	-10.5	-13.1	-18	-32.5	-20.2	-13.9	-10.6	-8.89	-7.41	-6.92	-7.15	-7.91	-9.46	-12.3	-17.6	-32
θ (15°)		-13.6	-16.2	-11.7	-9.09	-9.23	-10.5	-11.1	-10.2	-10.3	-12.4	-16.1	-20.7	-18.7	-11.2	-7.1	-4.8	-3.72	-3.14	-2.53	-2.13	-2.26	-3.18	-5.33	-7.86	-13.6
θ (30°)		-7.12	-6.57	-10.7	-15.2	-22.4	-16.7	-14.4	-12	-8.61	-7.08	-9.21	-14.9	-8.92	-6.46	-5.99	-3.95	-2.01	-1.03	-0.84	-0.37	0.88	1.3	-0.66	-4.6	-7.12
θ (45°)		-8.34	-10	-14	-12.4	-11.8	-7.98	-9.97	-8.03	-7.43	-11.1	-14.9	-16.9	-7.08	-4.55	-4.32	-3.22	-0.43	-1.13	-3.04	-1.39	1.55	2.84	0.74	-4.4	-8.34
θ (60°)		-27	-8.3	-9.09	-12.5	-3.97	-5.72	-7.74	-11.5	-12.3	-4.2	-3.21	-7.26	-5.78	-5.5	-8.7	-2.08	1.28	-1.31	-4.58	-2.98	1.62	1.52	-0.94	-8.69	-27
θ (75°)		-15.1	-3.17	-6.77	-11.2	-3.69	-1.55	-1.26	-1.44	-4.78	-9.17	-3.5	-3.41	-1.83	-7.79	-7.16	0.49	1.49	-0.87	-3.29	0.06	[4.28]	-0.97	-3.06	-10.6	-15.1
θ (90°)		-10.7	-0.23	-2.7	-17.1	1.73	2.81	-2.48	0.48	-0.21	-3.37	-2.15	-5.45	-1.95	-9.91	-16.3	-5.31	1.05	0.47	-4.48	-4.12	3.61	-3.44	-3.95	-5.21	-10.7
θ (105°)		-5.15	-0.19	-7.68	-10.3	0.57	-1.82	-2.2	1.51	-0.65	-2.84	1.12	-1.5	-0.1	-10	-14.8	-9	-3.2	-4.42	-15.1	-5.21	0.53	-7.89	-3.71	-6.79	-5.15
θ (120°)		-2.7	-3.71	-7.2	-11	-2.64	-8.66	-1.96	0.72	-1.17	-3.51	0.07	-2.87	-1.33	-3.03	-16.7	-13.9	-3.11	-5.14	-9.93	-7.76	-5.67	-8.25	-8.48	-7.37	-2.7
θ (135°)		-8.91	-17.6	-11.5	-9.15	-7.53	-7.81	-1.47	-1.65	-6.94	-2.18	-0.89	-3.55	-3.93	-4.76	-28.5	-19.5	-15.6	-18	-15.2	-16	-14.2	-7.24	-11.6	-7.29	-8.91
θ (150°)		-2.88	-2.57	-5.87	-18.9	-14.5	-8.65	-7.42	-10.4	-13.9	-14.4	-10	-6.14	-7.27	-11.7	-14.8	-9.94	-7.5	-7.38	-11.8	-22.2	-18.3	-9.69	-8.87	-6.19	-2.88
θ (165°)		-13.6	-12.5	-13.5	-13.5	-10.7	-8.52	-8.82	-12.6	-17.6	-11.2	-8.93	-11	-15.4	-15.5	-15.6	-17.6	-19.7	-28	-19.7	-12.6	-9.69	-10.4	-14.9	-18.1	-13.6
θ (180°)		-7.64	-8.05	-8.62	-8.64	-8.4	-8.11	-7.21	-6.03	-5.44	-5.54	-5.74	-5.93	-6.72	-7.5	-7.99	-7.8	-7.58	-7.16	-6.78	-6.23	-6.09	-6.04	-6.31	-6.96	-7.64
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB																										
θ (0°)		-8.04	-8.56	-9.54	-11.1	-13.3	-17.4	-21.1	-18.3	-13.9	-9.32	-7.89	-7.66	-7.97	-8.7	-10.4	-12.8	-17.8	-27.5	-19.6	-14.1	-10.5	-9.19	-8.23	-8.04	
θ (15°)		-5.71	-5.56	-5.56	-6.27	-7.11	-8.37	-10.9	-13.7	-15.4	-13.4	-10	-7.26	-5.29	-4.37	-4.71	-5.98	-6.64	-7.46	-8.97	-11.9	-14.9	-11.9	-8.16	-6.67	-5.71
θ (30°)		-1.07	-0.63	0.3	-1.69	-5.74	-8.83	-10.9	-15.8	-14.8	-8.76	-5.92	-5.75	-5.32	-4.56	-3.95	-3.49	-4.24	-5.53	-7.93	-11.4	-26	-9.79	-3.24	-1.37	-1.07
θ (45°)		-4.25	-3.14	-1.65	-6.57	-6.91	-11.4	-10.6	-11.7	-16.4	-5.55	-1.61	-3.25	-3.8	-1.8	-0.77	-1.72	-3.92	-11.3	-26.3	-16.7	-12.6	-5.06	-0.63	0.09	-4.25
θ (60°)		-11.8	-4.64	0.09	-2.11	-6.83	-11.9	-15.7	-23	-10.8	-12	-1.55	-0.57	-2.57	-3.59	-0.64	-0.41	-8.44	-18.1	-11.8	-9.37	-5.15	-1.48	-0.7	-2.11	-11.8
θ (75°)		-9.82	-6.33	0.78	-3.64	-23.1	-34.7	-14.4	-15.9	-2.66	-4.27	-9.5	-6.91	-1.85	-3.56	-2.41	-5.24	-14.9	-18.9	-13.1	-4.25	-0.03	-3.09	-3.74	-1.34	-9.82
θ (90°)		-6.21	-4.14	-1.55	-9.97	-16.7	-17.8	-15.8	-18.5	-5.42	0.85	0.46	-9.02	-3.86	-1.16	-3.63	-3.18	-6.06	-10.1	-8.97	-10.8	-6.32	-8.18	-5.09	-1.43	-6.21
θ (105°)		-4.9	-1.25	-2.7	-7	-14.6	-24.2	-15	-9.48	-1.38	[2.60]	2.51	-0.97	-1.5	-1.09	-5.06	-7.42	-8.78	-7.64	-18.3	-23.9	-17	-7.2	-10.3	-8.68	-4.9
θ (120°)		-15	-5.59	-1.66	-4.09	-12.2	-13.3	-15.2	-8.93	-3.36	0.47	-0.38	-0.1	-1.58	-1.26	-4.78	-8.15	-9.87	-9.21	-11.9	-30	-9.84	-21.6	-6.24	-16.5	-15
θ (135°)		-14.8	-17.9	-17	-12.3	-17.1	-19.6	-13.6	-9.81	-7.46	-3.85	-1.62	-4.84	-4.69	-2.3	-8.19	-10.8	-17.9	-12.1	-15.4	-17.4	-10.6	-10.4	-9.22	-21	-14.8
θ (150°)		-2.02	-2.97	-6.15	-7.86	-8.67	-11.9	-21.5	-9.74	-8.28	-8.11	-6.71	-4	-4.23	-4.33	-3.94	-9.83	-7.79	-4.27	-6.02	-9.18	-6.32	-10.7	-13.8	-11	-2.02
θ (165°)		-12	-14.6	-21.2	-27.8	-28.5	-21.1	-12.7	-9.72	-11.8	-12.9	-8.23	-5.78	-6.26	-9.35	-10.8	-11.8	-17.1	-19.1	-14.8	-12.9	-14.4	-16.2	-14.4	-12.5	-12
θ (180°)		-9.13	-9.06	-9.38	-9.98	-10.1	-9.68	-9.08	-9.36	-9.33	-8.45	-6.96	-6.38	-6.48	-6.41	-6.63	-7.13	-7.74	-9.23	-11.1	-12.4	-12.2	-11.4	-9.77	-9.03	-9.13



Ant.	No.2																								
Freq. (MHz)	5350																								
Polarity	Theta																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	-15.4	-20.7	-20.2	-14	-10.3	-8.32	-7.1	-6.67	-6.54	-7.12	-8.02	-10.1	-13.5	-19.2	-19.4	-12.9	-9.52	-7.63	-6.39	-5.78	-5.8	-6.49	-7.75	-9.86
θ (15°)	-10.8	-18.1	-16.6	-10.5	-8.62	-8.73	-9.11	-10.3	-11.7	-13.3	-15.1	-16	-12.8	-9.03	-6.25	-4.26	-3.12	-2.73	-2.4	-1.95	-1.58	-1.87	-3.26	-5.41	-10.8
θ (30°)	-7.48	-8.95	-13.5	-12.8	-19.2	-17.8	-13.7	-10.7	-7.8	-7.08	-8.82	-9.67	-6.17	-4.55	-3.9	-3.67	-3.1	-1.89	-1.23	-0.34	1.17	1.69	0.49	-2.73	-7.48
θ (45°)	-7.09	-11.3	-15	-17.1	-9.84	-8.46	-11.9	-9.83	-9.55	-16.4	-19.3	-8.61	-2.93	-1.95	-3.35	-3.42	-1.12	-2.1	-3.2	-1.86	1.11	2.46	0.33	-3.73	-7.09
θ (60°)	-25.7	-9.55	-10	-13.2	-3.88	-7.13	-8.55	-12.5	-9.23	-3.59	-2.38	-4.2	-4.47	-2.79	-5.67	-5.11	0.76	-0.97	-4.38	-4.01	1.15	1.14	-0.46	-6.68	-25.7
θ (75°)	-13.6	-1.61	-5.71	-13.8	-3.35	-2.35	-1.01	-1.38	-6.27	-11.1	-1.88	-1.62	-1.48	-3.07	-4.98	0.45	0.48	-2.45	-4.33	-0.77	[3.71]	-1.26	-2.08	-8.52	-13.6
θ (90°)	-15.3	-0.46	-3.54	-10.3	1.5	3.17	-2.45	-0.14	-0.29	-5.17	-2.53	-4.45	-2.29	-8.28	-6.72	-6.23	0.67	-0.29	-6.87	-2.02	3.04	-5.67	-5.58	-6.38	-15.3
θ (105°)	-7.71	-0.15	-7.85	-10.3	0.57	-1.57	-1.23	1.57	-2.05	-4.69	0.44	-2.09	-1.17	-8.93	-9.52	-12.7	-4.57	-5.6	-13.8	-4.39	-0.9	-7.37	-4.73	-8.7	-7.71
θ (120°)	-7.4	-5.77	-8.2	-10	-0.33	-5.99	-2.17	0.21	-1.45	-4.08	0.12	-1.75	-2.07	-4.4	-9.79	-13.5	-4.1	-5.21	-14	-12.5	-9.12	-8.85	-6.17	-8.91	-7.4
θ (135°)	-16.1	-18.5	-14.2	-8.44	-7.17	-12.5	-1.9	-1.41	-5.75	-2.16	0.15	-3.31	-4.75	-5.61	-15.8	-29.6	-19.3	-22.9	-17.5	-19.3	-13.1	-8.06	-15.6	-11.6	-16.1
θ (150°)	-5.17	-3.91	-7.08	-20.2	-11.7	-6.68	-6.16	-11.4	-16	-9.86	-8.61	-8.65	-10.9	-11.5	-11.8	-8.78	-7.71	-8.09	-10.1	-13.2	-17.6	-8.14	-8.69	-9.24	-5.17
θ (165°)	-13.1	-15.4	-19.6	-18.8	-13	-9.37	-9.09	-11.8	-11.4	-7.57	-6.81	-9.29	-14.1	-16.2	-18.1	-19.5	-19.4	-23.9	-24.6	-15.6	-12.2	-12.7	-15.9	-15.2	-13.1
θ (180°)	-9.69	-10.3	-10.2	-9.82	-9.26	-8.37	-7.73	-7.14	-7.17	-7.38	-7.83	-8.19	-8.5	-8.48	-8.4	-8.38	-8.22	-7.76	-7.42	-7.31	-7.5	-7.61	-8.07	-9.16	-9.69
Polarity	Phi																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	-5.96	-5.51	-5.74	-6.51	-8.02	-9.89	-13.1	-15.8	-16.6	-13.8	-10.5	-8.54	-7.08	-6.16	-6.13	-6.38	-7.82	-10	-13	-16.6	-16.5	-12.9	-9.35	-7.23
θ (15°)	-4.68	-5.43	-6.37	-8.04	-11	-13.7	-14.8	-16	-14.9	-11.1	-8.17	-6.56	-5.25	-4.54	-4.65	-5.27	-6.26	-7.31	-8.34	-9.04	-8.65	-7.05	-5.01	-4.41	-4.68
θ (30°)	-2.35	-3.01	-1.89	-4.12	-9.8	-12.6	-12.3	-14.1	-15.5	-9	-6.13	-4.64	-3.37	-2.38	-2.52	-4.26	-5.28	-6.09	-8.31	-11.2	-17	-11.2	-3.89	-1.04	-2.35
θ (45°)	-2.62	-4.61	-2.9	-5.47	-4.45	-8.2	-8.91	-8.09	-9.41	-3.82	-1.4	-3.36	-4.5	-3.71	-3.32	-3.57	-5.58	-12.2	-19.7	-19.7	-12.7	-5.17	-0.54	0.68	-2.62
θ (60°)	-7.96	-10.6	0.5	-0.4	-4.69	-11.4	-13.9	-13.6	-10.4	-9.59	-1.59	-1.47	-4.48	-6.28	-2.52	-1.33	-8.32	-20.1	-15.8	-8.48	-3.47	-1.96	-2.61	-0.92	-7.96
θ (75°)	-9.12	-3.12	1.99	-3.41	-15.9	-17.1	-18.3	-19.3	-4.47	-5.7	-10.4	-6.53	-1.57	-5.73	-3.15	-4.33	-13.9	-19.4	-12.3	-4.1	0.84	-3.03	-5.1	-1.66	-9.12
θ (90°)	-5.29	-1.41	0.06	-12.9	-13.4	-17.9	-14.6	-32.2	-5.63	1.18	-0.26	-11.5	-5.24	-3.1	-6.18	-6.14	-8.42	-18.9	-9.29	-8.88	-3.81	-7.54	-6.53	-1.69	-5.29
θ (105°)	-4.31	-3.3	-5.3	-10.6	-9.14	-20.7	-14.6	-6.79	-1.19	2.06	[2.37]	-1.34	-3.1	-2.31	-6.2	-7.97	-13.9	-9.7	-12.2	-17.3	-16	-9.86	-10.2	-7.55	-4.31
θ (120°)	-10.7	-5.7	-4.25	-5.88	-12	-11.1	-12.2	-11.4	-4.56	-0.12	-0.33	-0.33	-2.65	-3.49	-5.95	-6.78	-14.4	-10.5	-13.8	-25.7	-25.9	-10.6	-6.91	-18.2	-10.7
θ (135°)	-16.9	-21.2	-13.9	-7.86	-11	-14.1	-16.6	-8.63	-7.06	-5.61	-2.7	-4.33	-5.23	-4.52	-10.3	-12	-17.6	-15	-25.4	-16.6	-24.2	-16.1	-14.1	-21.5	-16.9
θ (150°)	-1.79	-2.27	-6.78	-12.7	-9.1	-9.1	-26.4	-8.33	-4.94	-4.66	-4.49	-3.13	-4.52	-4.7	-4.76	-12.7	-8.42	-4.52	-7.03	-12.2	-7.1	-10.1	-14.2	-13.6	-1.79
θ (165°)	-9.16	-12.1	-18.5	-19.5	-15.4	-17.5	-13.5	-9.23	-9.34	-10.4	-7.66	-5.56	-6.84	-11	-12.3	-12	-15.7	-24.4	-20	-14.2	-12.5	-11.3	-10.5	-10	-9.16
θ (180°)	-9.18	-9.53	-9.59	-10.6	-11.9	-11.7	-11.2	-11.6	-11.5	-8.8	-6.61	-5.93	-6.02	-6.07	-7	-8.69	-10.1	-11.3	-13.1	-14.7	-14	-11.1	-9.43	-8.91	-9.18



Ant.	No.2																										
Freq. (MHz)	5500																										
Polarity	Theta																										
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ		
		(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°)	
dB	φ (0°)	-11.4	-12.9	-12.5	-10.5	-8.37	-6.47	-5.62	-5.4	-5.64	-6.3	-7.28	-9.02	-11.3	-12.7	-12.1	-10.2	-8.04	-6.49	-5.25	-4.74	-4.73	-5.18	-6.25	-8.01	-11.4	
	θ (0°)	-8.56	-16.1	-17.7	-11.5	-9.25	-9.09	-9.73	-9.71	-10.3	-13	-18.6	-14.8	-9.44	-7.2	-6.06	-5.01	-4.24	-3.78	-2.99	-1.95	-1.12	-1.07	-2.09	-3.78	-8.56	
	θ (30°)	-5.92	-10.6	-13.2	-9.76	-14.6	-13.8	-12.7	-12.5	-10.9	-10.6	-10.9	-8.49	-5.48	-3.3	-2.32	-2.57	-2.49	-2.34	-2.15	-0.79	0.57	1.2	0.87	-1.3	-5.92	
	θ (45°)	-5.24	-4.74	-13.3	-10.6	-2.78	-5.05	-8.5	-7.02	-5.73	-10.3	-12.4	-4.77	-1.39	-1.84	-4.07	-2.38	-1.19	-1.82	-2.78	-1.92	0.03	1.42	0.26	-3.31	-5.24	
	θ (60°)	-17.2	-13	-13.3	-10.2	-1.06	-11.6	-10	-21.2	-3.81	-0.28	-2.21	-2.08	-2.93	-3.99	-6.44	-7.66	-0.19	0.37	-2.74	-2.78	1.99	-0.44	-2.39	-11.8	-17.2	
	θ (75°)	-11.2	-1.32	-6.69	-6.53	-5.02	-4.04	-1.93	-3.8	-26.1	-3.09	-0.06	1.24	-0.75	-3.95	-5.59	-0.12	2.16	0.2	-3.87	0.2	4.61	-3.91	-5.89	-13.3	-11.2	
	θ (90°)	-7.78	-0.8	-4.97	-6.32	0.7	3.05	-0.99	-0.26	-4.11	-10.3	-1.63	-1.44	-0.64	-8.32	-4.14	-5.69	1.21	2.13	-2.77	0.19	[5.02]	-10.3	-15.5	-7.18	-7.78	
	θ (105°)	-5.46	0.09	-6.32	-16.3	-0.32	-2.76	-0.47	0.85	-7.15	-5.18	-0.11	-0.02	-2.23	-12.5	-6.48	-13.5	-3.14	-2.1	-6.65	-0.86	-0.07	-10.8	-8.32	-6.41	-5.46	
	θ (120°)	-5.46	-4.55	-8.85	-11.6	-0.71	-5.19	-2.24	-1.89	-4.49	-7.77	-1.57	-0.5	-0.59	-4.71	-8.7	-8.24	-9.14	-4.22	-8.77	-21.3	-18.2	-13	-5.6	-4.81	-5.46	
	θ (135°)	-23.2	-12.3	-19.7	-9.33	-6.64	-13.1	-2.16	-2.82	-8.59	-3.92	0.42	-2.79	-5.69	-5.58	-15.7	-16.5	-24.5	-24.6	-25.7	-18.3	-8.63	-8.24	-11.5	-7.16	-23.2	
	θ (150°)	-6.58	-6.07	-13.1	-18.5	-13.8	-7.2	-5.54	-12.4	-9.32	-5.64	-6.71	-8.51	-10.2	-13.2	-11.3	-7.97	-7.14	-7.33	-8.58	-10.3	-17.4	-9.38	-7.12	-8.12	-6.58	
	θ (165°)	-23.4	-21.4	-15.4	-15.6	-14.6	-11.8	-11.6	-16.4	-11.2	-6.15	-5.53	-8.78	-15.9	-18.4	-20.2	-23.3	-21.5	-20.7	-17.1	-15.7	-17.2	-25.3	-19.1	-16.3	-23.4	
	θ (180°)	-9.19	-9.27	-9.37	-9.27	-8.54	-8.27	-7.85	-7.53	-7.47	-7.74	-8.12	-8.47	-8.46	-8.52	-8.44	-8.6	-8.53	-8.02	-7.68	-7.54	-7.55	-7.74	-8.28	-9.16	-9.19	
Polarity	Phi																										
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)	
dB	φ (0°)	-4.76	-4.86	-5.18	-5.55	-6.8	-8.45	-10.2	-11.1	-10.7	-8.99	-7.27	-6.02	-5.49	-5.1	-5.21	-5.61	-6.73	-7.86	-9.84	-10.9	-10.5	-8.82	-7.05	-5.58	-4.76	
	θ (15°)	-1.75	-2.26	-2.69	-3.82	-5.64	-7.44	-10.2	-11.4	-11.4	-9.8	-8	-6.48	-6.02	-6.11	-6.65	-7.51	-8.27	-8.73	-9.02	-7.87	-6.47	-4.21	-2.43	-1.76	-1.75	
	θ (30°)	-2.01	-3.99	-5.43	-8.44	-15	-13.4	-10.9	-12.3	-9.04	-5.34	-4.58	-4.16	-3.11	-2.7	-3.55	-6.05	-8.47	-11.1	-14.8	-15.1	-11	-7.49	-3.84	-1.02	-2.01	
	θ (45°)	-4.38	-10.3	-5.96	-8.81	-7.89	-15.2	-12.8	-10.6	-4.98	-0.45	-8.81	-0.43	-2.86	-3.44	-3.58	-3.63	-3.9	-6.62	-11.5	-15.6	-17.3	-12.3	-6.62	-0.51	1.32	-4.38
	θ (60°)	-5.09	-10.9	0.86	-0.46	-5.34	-12.4	-17.3	-10.8	-8.4	-6.91	-0.39	-1.81	-6.32	-7.13	-3.07	-2.8	-5.61	-12.7	-21.3	-11.7	-2.53	-0.78	-3.28	-0.15	-5.09	
	θ (75°)	-6.4	-6.66	1.95	-2.79	-12.1	-16.4	-17.9	-22.8	-5.24	-5.79	-6.26	-4.6	-5.01	-11.1	-3.34	-5.3	-17.7	-35.1	-17.7	-7.62	1.46	-0.3	-9.93	-3.32	-6.4	
	θ (90°)	-5	-2.72	-0.27	-12.8	-12	-24.3	-14.1	-12.9	-3.74	0.24	-2.37	-12.6	-5.72	-6.14	-4.92	-6.89	-17.1	-17.5	-22.4	-9.1	-1.35	-3.65	-12.5	-3.55	-5	
	θ (105°)	-5.81	-3.57	-3.96	-14.9	-5.78	-11.3	-15.3	-6.34	-2.36	1.27	[2.39]	-4.33	-4.76	-2.12	-7.15	-9.01	-15.8	-17.3	-11.5	-8.87	-7.92	-7.32	-6.5	-4.37	-5.81	
	θ (120°)	-6.61	-5.11	-4.7	-5.14	-21.3	-11.2	-10.1	-16.8	-7.96	-0.26	0.14	-2.76	-7.28	-2.75	-5.11	-4.9	-11.3	-12.8	-9.77	-26.8	-21.2	-7.93	-6.44	-14	-6.61	
	θ (135°)	-11.7	-15.2	-12.3	-6.36	-7.71	-10.8	-27	-12.9	-6.9	-6.76	-5.46	-5.19	-10.5	-9.4	-9.45	-10.2	-14.3	-13.1	-32.7	-13.9	-14.3	-31.1	-13.6	-21.3	-11.7	
	θ (150°)	-5.01	-5.66	-9.49	-16.6	-11	-8.89	-22.7	-8.43	-4.37	-3.4	-4.47	-4.83	-6.41	-5.28	-4.74	-13.8	-14	-8.03	-9.19	-15	-8.37	-11	-14.3	-17.6	-5.01	
	θ (165°)	-8.01	-10.3	-17.5	-15	-11.2	-10.3	-9.51	-7.61	-7.6	-11	-9.01	-6.59	-8.78	-12.5	-11	-11.8	-15	-21.1	-19.6	-14.6	-11.8	-11.7	-11.6	-10.2	-8.01	
	θ (180°)	-9.94	-10.2	-9.63	-9.42	-10.7	-11.3	-10.5	-9.94	-9.36	-7.39	-5.61	-5.17	-6.08	-7.03	-8.04	-9.43	-10.4	-10.9	-12	-13.3	-14.1	-13	-10.6	-9.36	-9.94	

Ant.	No.2																									
Freq. (MHz)	5650																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
dB		-10.3	-10.5	-10.9	-11.4	-12.1	-12.6	-12.5	-13	-12.5	-11.5	-10.4	-10.5	-10.4	-10	-10.3	-10.8	-11	-11.5	-11.7	-11.1	-10.6	-10.6	-10.7	-10.7	-10.3
θ (0°)		-10.3	-10.5	-10.9	-11.4	-12.1	-12.6	-12.5	-13	-12.5	-11.5	-10.4	-10.5	-10.4	-10	-10.3	-10.8	-11	-11.5	-11.7	-11.1	-10.6	-10.6	-10.7	-10.7	-10.3
θ (15°)		-11.4	-17.2	-21	-14.1	-10.6	-9.79	-9.92	-10.3	-10.8	-12.7	-18.5	-15.7	-10.3	-6.62	-4.57	-3.72	-3.4	-3.38	-3.21	-2.73	-2.13	-2.54	-4.12	-6.27	-11.4
θ (30°)		-7.54	-12.4	-20.1	-7	-7.7	-17.3	-25.1	-16.2	-13.1	-14.6	-25.3	-12.6	-5.22	-2.32	-1.94	-1.48	-2.23	-4.1	-3.75	-1.3	0.59	1	-0.14	-2.61	-7.54
θ (45°)		-5.82	-7.39	-13	-11.7	-4	-6.72	-9.76	-5.44	-3.55	-8.63	-18.9	-7.41	-1.92	-1.68	-1.13	-1.64	-2.75	-2.08	-2.42	0.27	1.73	2.1	1.3	-1.75	-5.82
θ (60°)		-12	-20.2	-20.1	-9.02	1	-8.26	-14.6	-9.06	-1.06	0.45	-2.97	-4.87	-3.88	-2.97	-3.11	-3.16	-1.72	0.06	-2.48	-2.16	2.86	1.92	-1.34	-6.33	-12
θ (75°)		-15	-4.12	-7.96	-3.45	0.51	-4.29	-3.61	-5.26	-6.42	-1.03	-0.81	-0.18	-2.85	-3.09	-2.47	-0.96	0.82	-0.7	-3.36	-0.24	4.45	-3.76	-4.44	-8.08	-15
θ (90°)		-10.7	-2.36	-4.58	-8.23	3.11	2.74	-2.58	-1.03	-3.35	-3.54	-2.01	-3.13	-0.81	-5.76	-1.45	-1.52	-1.38	-0.5	-3.52	0.1	[4.94]	-7.71	-6.5	-5.43	-10.7
θ (105°)		-5.12	-0.12	-5.41	-11.9	1.95	-1.56	-1.23	1.07	-3.45	-2	0.3	0.08	-4.27	-12	-3.38	-6.05	-4.21	-1.78	-4.65	0.11	0.14	-21.2	-10.1	-6.07	-5.12
θ (120°)		-4.9	-5.95	-9.72	-15.7	-0.17	-5.66	-2.04	-1.07	-3.12	-5.02	-1.01	-0.62	-0.94	-13.7	-9.54	-3.9	-9.7	-5.31	-8.06	-19.8	-11.8	-13.5	-10.2	-10.7	-4.9
θ (135°)		-11.7	-12.8	-22	-10.6	-7.43	-9.08	-0.34	-1.48	-9.29	-5.91	-1.41	-2.82	-6.4	-13.7	-15	-12.8	-17.9	-21.7	-25.5	-13.7	-9.21	-14.9	-11.6	-7.1	-11.7
θ (150°)		-7.85	-6.77	-8.79	-10.2	-17.3	-5.09	-2.89	-8.11	-9.58	-5.67	-5.89	-7.16	-10.3	-18	-13.2	-8.22	-9.87	-9.55	-9.74	-11.3	-17.9	-19	-11.1	-9.72	-7.85
θ (165°)		-16.9	-12.5	-9.64	-10.4	-14.2	-17.6	-18.4	-20.9	-11.1	-6.16	-5.28	-8.49	-18.7	-29.9	-24.7	-22.5	-19.1	-18	-15.5	-13.5	-12.7	-14.4	-13	-12.5	-16.9
θ (180°)		-9.67	-10.1	-10.6	-10.1	-9.06	-8.34	-7.78	-7.35	-7.34	-7.45	-7.71	-8.43	-9.82	-10.9	-11.4	-10.7	-9.6	-8.39	-7.17	-6.44	-5.94	-6.06	-6.98	-8.08	-9.67
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB		-11.6	-11.4	-11.4	-11.4	-11.1	-10.8	-10.5	-10.4	-11.1	-11.7	-12.7	-12.8	-12.1	-11.8	-11	-11.2	-11.4	-10.8	-10.9	-11	-11.4	-11.8	-12.3	-12.2	-11.6
θ (0°)		-11.6	-11.4	-11.4	-11.4	-11.1	-10.8	-10.5	-10.4	-11.1	-11.7	-12.7	-12.8	-12.1	-11.8	-11	-11.2	-11.4	-10.8	-10.9	-11	-11.4	-11.8	-12.3	-12.2	-11.6
θ (15°)		-1.36	-2.83	-4.16	-5.29	-7.22	-9.32	-10.6	-12.3	-14.2	-10.6	-8.67	-8.56	-9.37	-9.16	-8.65	-8.87	-9.81	-10	-9.98	-9.33	-6.89	-4.09	-2.08	-1.26	-1.36
θ (30°)		-1.77	-2.23	-2.87	-5.74	-13.8	-17.9	-16.3	-13.7	-8.36	-4.28	-3.57	-3.82	-3.85	-3.57	-2.99	-3.97	-6	-8.53	-10.5	-17.3	-11.6	-3.62	-1.31	-1.05	-1.77
θ (45°)		-2.72	-6.26	-4.35	-14.9	-9.47	-19.8	-31.4	-15.8	-6.2	-0.72	0.16	-1.77	-2.64	-0.98	-1.79	-2.98	-4.33	-7.52	-14.2	-21.5	-9.87	-6.51	-0.91	1.08	-2.72
θ (60°)		-4.13	-6.58	1.25	-2.7	-11.2	-20.7	-28.7	-12.9	-9.48	-4.66	-0.7	-1.13	-5.23	-5.07	-3.36	-2.94	-5.11	-10	-19.1	-14.4	-4.7	-0.79	-1.1	0.06	-4.13
θ (75°)		-2.53	-3.98	1.91	-4.3	-12.4	-14.7	-15.8	-15	-9.89	-5.74	-4.93	-1.11	-6.3	-7.86	-3.15	-3.02	-8.42	-15	-22.8	-9.33	-2.09	-2.53	-5.27	-1.58	-2.53
θ (90°)		-4.46	-1.77	-0.01	-18.3	-12.3	-16.9	-13.1	-11.8	-5.28	0.84	-2.04	-13.3	-3.46	-7.28	-10.5	-6.51	-16.9	-17.8	-17.7	-6.15	-0.59	-4.12	-10.6	-3.04	-4.46
θ (105°)		-6.69	-2.63	-4.77	-14.6	-11	-17.9	-19.4	-7.49	-1.75	[2.11]	1.51	-8.25	-2.64	-3.33	-9.29	-10.4	-13.1	-29.7	-8.13	-5.11	-7.14	-9.27	-8.98	-4.25	-6.69
θ (120°)		-5.39	-5.54	-5.02	-8.04	-19.9	-17.6	-8.94	-8.18	-4.1	0.31	1.34	-2.28	-3.75	-0.49	-4.34	-5.68	-9.75	-16.5	-9.95	-11.8	-15.9	-9.69	-8.87	-9.94	-5.39
θ (135°)		-8.93	-11	-11.9	-7.39	-10.2	-15.4	-10.2	-10.6	-9.12	-3.59	-4.05	-7.9	-6.82	-5.44	-7.62	-13	-12.1	-12.3	-28.3	-9.91	-8.13	-13.1	-12.3	-17.4	-8.93
θ (150°)		-4.43	-5.72	-8.79	-13.2	-8.67	-6.82	-16	-13.8	-7.6	-3.15	-4.17	-5.25	-7.7	-5.63	-4.14	-10.5	-14	-10.6	-11.9	-24.8	-15.8	-25.7	-12	-20.5	-4.43
θ (165°)		-7.46	-10.2	-22	-14.2	-9.82	-10.1	-12.8	-11.7	-11.1	-13.3	-10.7	-7.39	-8.52	-11.4	-9.68	-9.76	-12.5	-21	-25.9	-20.8	-22.6	-19.9	-15.1	-10.9	-7.46
θ (180°)		-9.02	-8.55	-8.23	-7.78	-8.31	-9.32	-9.17	-9.95	-11.1	-9.64	-6.93	-6.08	-6.13	-6.4	-7.44	-7.83	-7.85	-8.24	-8.85	-10.2	-12	-14.6	-12.7	-10	-9.02



BUREAU
VERITAS

Ant.	No.2																									
Freq. (MHz)	5850																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
dB	φ (0°)	-10	-7.71	-5.49	-4.53	-3.91	-3.82	-4.36	-5.22	-6.95	-9.85	-14.1	-15	-10.5	-7.09	-5.33	-4.16	-3.9	-4.05	-4.59	-5.77	-7.83	-10.9	-14.3	-14.2	-10
θ (0°)																										
θ (15°)		-8.51	-8.39	-8.74	-8.44	-7.01	-6.17	-6.31	-6.56	-6.86	-8.79	-13.3	-25.6	-12.8	-6.77	-3.7	-2.27	-2.31	-2.71	-2.84	-2.37	-2.08	-2.89	-4.75	-6.53	-8.51
θ (30°)		-7.35	-10	-16.8	-7.83	-10.9	-16.5	-10.3	-13.8	-21.5	-13.9	-12.1	-21.9	-7	-2.84	-1.81	-1.65	-1.97	-3.04	-4.12	-2.82	0.09	1.68	0.25	-4.02	-7.35
θ (45°)		-7.59	-6.61	-8.88	-10.4	-5.05	-3.24	-6.38	-3.29	-3.95	-13.9	-21.2	-8.91	-1.22	-0.68	0.47	-0.35	-1.66	-1.95	-0.5	2.22	3.28	3.22	1.23	-2.73	-7.59
θ (60°)		-6.99	-12.1	-22.3	-14.3	-0.44	-6.25	-14.1	-7.58	-2.27	-0.8	-5.25	-7.17	-1.19	0.46	0.27	-2.06	0.72	1.68	-1.27	-0.91	2.71	1.14	-2.26	-4.91	-6.99
θ (75°)		-8.97	-7.06	-14.1	-8.28	0.4	-4.73	-4.86	-5.34	-6.53	-2.15	-0.65	-1.22	-0.83	-0.12	-2.87	-1.93	1.72	1.14	-3.99	-1.53	[4.27]	-3.62	-3.86	-4.3	-8.97
θ (90°)		-6.78	-2.6	-5.28	-10.1	2.43	1.05	-4.65	-3.23	-3.83	-5.17	-2.84	-1.94	-1.03	-0.85	-0.69	-3.46	0.82	-1.38	-8.32	-4.33	4.08	-6.94	-3.59	-5.05	-6.78
θ (105°)		-17.6	0.02	-3.51	-23.2	2.33	-1.91	-3.17	-0.5	-4.81	-2.16	0.75	-0.32	-3.03	-3.19	-2.88	-9.19	-3.58	-4.6	-12.8	-3.35	-0.94	-11.7	-7.29	-5.31	-17.6
θ (120°)		-11.3	-4.18	-4.32	-16.7	-1.44	-7.8	-3.48	-0.66	-2.48	-3.85	0.81	0.7	-1.03	-10.6	-5.44	-8.13	-7.94	-8.14	-16.5	-21.6	-7.02	-10	-11.9	-24	-11.3
θ (135°)		-15.8	-16.9	-18	-9.05	-7.17	-7.93	-0.99	-2.07	-7.87	-3.01	0.11	-3.22	-5.53	-11.9	-8.42	-13.9	-18.7	-17.7	-21.3	-12	-11.4	-21.2	-12.6	-13.7	-15.8
θ (150°)		-27	-10.9	-5.42	-6.06	-16	-4.28	-1.72	-5.24	-7.46	-3.64	-5.09	-10.2	-13.8	-12.8	-23	-9.32	-9.33	-11	-12.5	-11.9	-13.8	-24.9	-14.5	-11.4	-27
θ (165°)		-13.3	-10.6	-9.61	-11.6	-17.2	-36.3	-22.4	-15.3	-9.11	-5.62	-5.11	-8.1	-18.7	-22	-18.1	-18	-16	-15.4	-15.4	-12.9	-10.3	-9.99	-10.7	-11.9	-13.3
θ (180°)		-10.5	-11.4	-11.7	-11.8	-11.2	-10.3	-9.53	-8.34	-7.29	-6.7	-6.73	-6.96	-7.95	-9.83	-12.2	-12.9	-12.3	-11	-9.15	-7.99	-7.08	-7.01	-7.64	-8.69	-10.5
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB	φ (0°)	-5.04	-5.84	-8.08	-11.2	-14.7	-13	-9.32	-6.87	-5.24	-4.29	-4.03	-4.18	-5.4	-7.55	-10.1	-12.7	-15.2	-13.7	-10.4	-7.79	-5.92	-4.95	-4.77	-4.6	-5.04
θ (15°)		-3.6	-3.57	-4.05	-4.72	-6.36	-8.44	-9.88	-10.5	-8.33	-6.22	-5.09	-4.57	-4.8	-5.98	-8.14	-13.1	-19.1	-16	-12.1	-9.38	-7.15	-5.57	-4.92	-4.65	-3.6
θ (30°)		-0.93	-1.23	-4.13	-10.3	-33.6	-20.6	-17.1	-18.7	-13.5	-7.2	-3.49	-1.51	-1.77	-2.98	-3.05	-4.2	-7.37	-9.1	-9.47	-10	-10.3	-4.74	-1.33	-0.97	-0.93
θ (45°)		-3.3	-5.85	-4.02	-12.8	-15.9	-24.4	-21.5	-14.5	-6.54	-1.82	-0.25	-0.01	-1.19	-1.39	-2.52	-4.69	-3.81	-5.14	-11.9	-18.4	-8.27	-4.24	-0.64	0.67	-3.3
θ (60°)		-3.21	-6.44	0.18	-6.36	-16.9	-12	-19.3	-27.3	-14	-4.46	-0.33	-1.26	-8.36	-6.71	-4.48	-3.49	-3.25	-6.28	-17.4	-13.9	-8.49	-2.45	-1.67	-0.38	-3.21
θ (75°)		-3.95	-3.81	0.68	-4.42	-8.32	-10.8	-12.6	-8.45	-7.18	-7.98	-3.27	-2.11	-6.03	-5.21	-4.72	-2.65	-5.39	-11.2	-17.7	-6.34	-3.25	-4.13	-4.48	-2.89	-3.95
θ (90°)		-5.26	-1.79	0.67	-11.1	-10.3	-15.6	-19.5	-8.99	-3.86	0.15	-2.31	-12	-5.6	-15.7	-12.7	-7.67	-10.4	-13.3	-18.4	-8.49	-1.91	-2.1	-4.14	-0.73	-5.26
θ (105°)		-7	-1.53	-2.61	-11.3	-21.8	-15.7	-10.5	-7.84	-1.32	[3.19]	0.08	-14.8	-2.2	-4.69	-6.05	-9.52	-11.5	-22.7	-7.73	-4.68	-5.19	-8.85	-5.65	-2.98	-7
θ (120°)		-7.77	-6.13	-4.04	-8.3	-24	-16.7	-11.3	-7.92	-3.4	0.48	1.18	-2.17	-2.46	-1.05	-6.36	-15.3	-12.4	-16.3	-14.2	-9.75	-15.4	-23.8	-18	-8.78	-7.77
θ (135°)		-7.24	-7.29	-12.1	-6.06	-8.3	-10.3	-15.6	-9.15	-8.47	-4.11	-5.34	-10.6	-5.14	-4.55	-6.1	-14.1	-13.8	-12.4	-33.1	-10.5	-7.33	-8.26	-9.33	-13.7	-7.24
θ (150°)		-5.39	-8.24	-8.6	-17	-8.81	-5.63	-12.3	-16.5	-12.4	-6.73	-5.67	-9.56	-17.5	-7.64	-5.19	-8.96	-12.8	-12.6	-11.1	-12.8	-18.9	-14.1	-8.89	-32	-5.39
θ (165°)		-10.5	-14.4	-29.4	-18.4	-14.4	-14.5	-14	-11.8	-12.7	-17.9	-11.5	-8.1	-8.03	-9.14	-8.38	-9.04	-13.5	-20.1	-17.2	-15.3	-17.9	-27.7	-21	-13.4	-10.5
θ (180°)		-10.5	-10.1	-10.2	-9.83	-9.79	-10.8	-10.9	-11.3	-12.7	-13.7	-11.1	-10.1	-9.51	-8.36	-7.5	-7.72	-7.83	-8.04	-8.72	-9.92	-11.7	-15.3	-16.2	-12.7	-10.5

Ant.	No.3																								
Freq. (MHz)	5150																								
Polarity	Theta																								
dB	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
	(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°)
θ (0°)	-9.89	-6.99	-4.69	-3.53	-2.82	-2.5	-2.59	-3.45	-5.4	-8.74	-14.1	-17.2	-11.9	-7.31	-4.73	-3.34	-2.59	-2.29	-2.81	-4.18	-6.32	-9.31	-13.9	-16.7	-9.89
θ (15°)	-9.55	-5.89	-4.49	-4.17	-4.21	-3.49	-2.66	-2.86	-4.07	-6.77	-11.7	-14.8	-11.1	-8.11	-5.81	-4.6	-4.44	-5.39	-7.41	-10.3	-16.1	-22.9	-21.5	-17.6	-9.55
θ (30°)	-7.84	-4.06	-1.36	-0.78	-0.82	-0.53	-0.23	-0.99	-3.09	-5.82	-7.58	-8.23	-9.23	-12.3	-13.7	-13.7	-18	-20.4	-15.3	-12.5	-12.4	-19.4	-20.4	-12.5	-7.84
θ (45°)	-9.07	-5.88	-2.64	0.14	-0.2	0.61	0.72	-1.89	-5.73	-5.84	-5.57	-7.78	-6.87	-6.98	-10.3	-13.2	-15.7	-11.4	-12.4	-21.6	-16.1	-16.6	-5.62	-5.53	-9.07
θ (60°)	-6.09	-3.53	-2.06	1.14	-0.53	0.74	0.72	-1.83	-3.52	-2.96	-0.76	-2.39	-4.53	-4.62	-4.56	-7.27	-17.5	-19.9	-14.6	-10.6	-7.13	-11.3	-6.56	-5.71	-6.09
θ (75°)	-0.94	-1.84	-0.36	[3.06]	1	1.3	-0.91	-2.78	-4.08	-3.78	-1.35	-4.02	-3.04	-4.06	-3.82	-9.3	-11.7	-11.8	-5.81	-2.53	-1.57	-5.42	-2.86	0.09	-0.94
θ (90°)	-0.55	-2.2	-4.46	1.12	-0.01	1.21	-0.92	-2.91	-3.8	-4.7	-2.75	-4.09	-3.61	-5.38	-3.1	-4.3	-9.79	-3.09	-3.08	-0.56	-1.73	-0.11	-2.3	0.92	-0.55
θ (105°)	-5.99	-8.78	-6.69	-1.36	-2.45	-0.04	-3.38	-5.17	-6.97	-4.78	-5.55	-5.08	-3.14	-13.3	-2.05	-16.2	-1.33	-2.17	-0.57	1.03	1.19	0.42	-0.88	0.95	-5.99
θ (120°)	-7.92	-10.1	-12.6	-6.73	-8.49	-5.28	-5.1	-16	-7.93	-6.7	-14.4	-13.2	-8.63	-13.6	-4.72	-13.6	-6.53	-3.43	-5.12	-1.96	-4.47	-0.4	-2.2	-1.06	-7.92
θ (135°)	-5.92	-7.88	-7.65	-11.2	-11	-7.57	-12.9	-13.5	-8.71	-13.3	-11.8	-11.2	-10.6	-9.28	-14.3	-16.8	-7.58	-9.38	-8.7	-6.89	-6.85	-3.4	-3.86	-2	-5.92
θ (150°)	-7.69	-10.1	-16	-17.4	-23.7	-15.8	-13.7	-12.3	-10.9	-10.6	-11.9	-15.1	-11.4	-9.39	-11.6	-8.54	-5	-7.45	-11.3	-3.87	-3.27	-6.8	-5.2	-5.68	-7.69
θ (165°)	-9.39	-8.97	-7.68	-7.08	-8.05	-11	-14.8	-16	-14.7	-15.3	-27.9	-15.8	-12.5	-14.1	-11.1	-10.4	-14	-21.4	-8.96	-5.5	-5.26	-7.13	-9.08	-9.32	-9.39
θ (180°)	-8.58	-10.1	-10.5	-12.6	-17.1	-13.7	-9.39	-6.74	-5.26	-4.92	-5.54	-6.38	-6.96	-7.77	-9.95	-13	-15.6	-13.6	-11.2	-8.8	-7.62	-7.01	-6.39	-6.43	-8.58
Polarity	Phi																								
dB	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
	(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°)
φ (0°)	-3	-4.56	-6.42	-8.34	-11.7	-14	-10.7	-7.1	-4.52	-3.03	-2.21	-2.21	-2.71	-3.71	-5.42	-8.32	-11.9	-13.9	-10.8	-7.42	-5	-3.63	-2.91	-2.07	-3
φ (15°)	-1.11	-2.93	-5.42	-8.64	-13.9	-23.4	-21.9	-11.9	-7.13	-4.14	-2.41	-1.69	-1.76	-2.94	-4.82	-7.28	-10	-8.42	-5.36	-3.63	-2.72	-2.15	-1.34	-0.68	-1.11
φ (30°)	[0.72]	0.29	-2.62	-6.32	-7.26	-7.68	-9.1	-9.28	-7.03	-5.51	-5.16	-4.77	-3.77	-3.32	-5.78	-10.4	-12.5	-9.27	-8.25	-8.51	-7.88	-5.62	-2.45	-0.43	0.72
φ (45°)	-2.34	-1.78	-1.66	-2.06	-5.06	-8.15	-11.2	-8.47	-5.66	-5.65	-3.27	-3.11	-4.16	-3.31	-7.68	-11.6	-7.92	-9.09	-12.2	-9.07	-4.77	-0.89	-2.93	-5.5	-2.34
φ (60°)	-15.4	-9.18	-3.56	-3.22	-8.24	-12.2	-11.9	-8.46	-7.28	-6.42	-4.26	-1.66	-1.32	-2.55	-5.09	-4.67	-5.37	-11.2	-13.3	-6.93	-2.35	-2.49	-4.09	-7.53	-15.4
φ (75°)	-8.96	-10.9	-7.86	-4.81	-7.3	-12.2	-11.4	-5.79	-3.79	-2.17	-2.54	-0.98	-1.13	-3.08	-4.88	-5.15	-6.12	-11.9	-22.1	-8.82	-4.63	-6.43	-6.26	-3.77	-8.96
φ (90°)	-10.4	-10.9	-10.8	-5.97	-6.65	-11.9	-17.4	-16.2	-6.8	-2.9	-4.84	-5.45	-3.7	-3.71	-5.67	-6.15	-4.51	-13.5	-11.5	-6.49	-2.47	-0.75	-1.81	-2.92	-10.4
φ (105°)	-5.22	-4.65	-9.63	-9.92	-7.25	-10.1	-12.6	-39.4	-11.8	-7.62	-20.1	-15.5	-6.4	-6.59	-11.4	-13.2	-18.8	-11.8	-8.49	-6.96	-2.34	-0.33	-0.65	0.11	-5.22
φ (120°)	-5.28	-9.39	-8.85	-12.4	-19.3	-16.8	-13.7	-10.1	-17.8	-14.1	-22	-15.3	-16	-24.4	-8.82	-13.9	-10.5	-11.7	-18.2	-17.5	-12	-4.92	-2.3	-1.43	-5.28
φ (135°)	-1.06	-7.39	-23.1	-15	-14.1	-11.2	-8.76	-11.3	-17.9	-8.02	-20.8	-10.4	-11.6	-23.7	-8.94	-15.1	-19	-16.4	-33.7	-13.2	-12.1	-15.2	-6.47	-0.06	-1.06
φ (150°)	-2.1	-2.3	-3.46	-10.2	-8.78	-6.41	-8.71	-11	-12.5	-13.8	-20	-26.7	-15.4	-14.9	-12.9	-10.1	-14	-7.22	-5.57	-9.24	-17	-27.2	-8.69	-4.95	-2.1
φ (165°)	-8.12	-5.51	-6.04	-8.52	-8.48	-9.63	-14.6	-19	-18.2	-14.8	-13.5	-19.5	-21.4	-15.6	-19.8	-15.5	-9.01	-6.91	-7.39	-11.2	-19.9	-34.2	-22.8	-15.2	-8.12
φ (180°)	-9.88	-8.95	-8	-7.25	-7.06	-6.83	-7.54	-9.73	-14	-22	-24.3	-16.6	-12.5	-9.1	-7.26	-7.21	-7.51	-7.61	-8.72	-10.7	-13.9	-21.1	-27.7	-14.1	-9.88

Ant.	No.3																								
Freq. (MHz)	5250																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-8.83	-6.33	-4.07	-2.75	-2.52	-2.58	-3.24	-4.62	-7.09	-10.9	-16.2	-15.5	-9.85	-6.3	-4.32	-3.08	-2.5	-2.64	-3.28	-4.5	-6.64	-10.5	-16.4	-14.3	-8.83
θ (15°)	-6.71	-3.76	-2.62	-2.64	-3.11	-3.35	-3.12	-3.37	-4.62	-6.86	-12	-36.5	-11.4	-6.69	-4.55	-3.51	-3.15	-3.47	-4.74	-7	-10.5	-14.7	-21	-15.1	-6.71
θ (30°)	-6.42	-1.93	0.33	-0.27	-2.3	-2.28	-1.16	-1.9	-4.42	-7.17	-8.62	-10.9	-13.1	-13.4	-13.8	-12.2	-12.1	-15.2	-15.7	-12.6	-11.5	-16.6	-22.5	-17.6	-6.42
θ (45°)	-6.07	-2.29	-0.52	0.68	-1.05	-0.25	0.49	-1.99	-7.59	-8.3	-6.38	-8.24	-11	-8.95	-10.2	-12.4	-18.5	-12.2	-14.4	-20.5	-17.3	-19.4	-7.96	-10.5	-6.07
θ (60°)	-3.45	-2.34	-2.39	0.34	-2.54	-0.5	0.92	-1.29	-2.83	-5.18	-2.17	-2.1	-4.07	-4.45	-4.19	-6.06	-20.6	-25.3	-15.5	-8.98	-6.94	-5.82	-4.4	-8.31	-3.45
θ (75°)	-0.63	-2.57	-0.32	[2.25]	-2.26	0.83	-0.33	-0.64	-2	-6.09	-2.1	-1.34	-2.24	-3.49	-4.04	-6.51	-8.67	-11.5	-4.86	-1.92	-0.98	-2.59	-0.52	-1.07	-0.63
θ (90°)	0.11	-2.32	-3.64	0.65	-3.04	0.34	-0.34	-2.09	-2.07	-5.71	-4.27	-2.47	-3.67	-4.11	-3.47	-2.63	-5.68	-3.09	-4.41	-0.92	-2.9	0.52	-0.53	0.16	0.11
θ (105°)	-6.68	-6.68	-5.44	-2.27	-6.7	-1.34	-3.37	-3.54	-5.9	-6.22	-6.13	-2.47	-2.43	-11.8	-1.88	-8.11	-2.01	-3.01	-1.59	0.59	0.73	1.25	-0.31	-0.38	-6.68
θ (120°)	-10.3	-6.85	-8.36	-7.88	-10.9	-8.14	-7.27	-13.7	-12.6	-7.49	-12.9	-9.36	-7.2	-14.8	-3.55	-10.5	-5.58	-2.73	-6.1	-1.6	-3.61	0.9	-2.46	-2.49	-10.3
θ (135°)	-7.37	-6.4	-5.43	-7.41	-14.1	-7.93	-11.1	-14.5	-9.73	-12.2	-12.5	-8.34	-12.6	-7.44	-13.8	-13.4	-5.06	-6.48	-8.22	-5.33	-4.05	-1.55	-3.36	-2.42	-7.37
θ (150°)	-6.8	-9.04	-20.2	-16.6	-16.6	-13.3	-12.6	-11.8	-9.79	-7.22	-6.92	-11.5	-12.7	-9.88	-14.4	-7.06	-3.94	-6.92	-12	-3.72	-3.24	-7.07	-5.82	-6.9	-6.8
θ (165°)	-11	-11	-11	-10.6	-9.71	-10.9	-14	-16.9	-18.3	-17.4	-19.5	-15.7	-13.8	-15.7	-11.3	-9.32	-12.1	-15.3	-8.36	-5.36	-5.89	-9.22	-12.4	-12	-11
θ (180°)	-10.7	-13.4	-16.3	-18.7	-25.6	-14.2	-8.71	-6.2	-5.36	-5.67	-6.68	-8.21	-9.39	-10.9	-13.4	-16.9	-19.2	-14.5	-11	-8.97	-8.04	-7.95	-8.27	-8.37	-10.7
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
θ (0°)	-2.65	-3.14	-5.93	-9.29	-11.8	-12.9	-9.78	-6.61	-4.41	-3.14	-2.56	-2.47	-2.95	-4.08	-5.64	-8.21	-11.4	-11.6	-8.73	-5.93	-4.08	-2.71	-2.32	-2.79	-2.65
θ (15°)	-0.7	-2.75	-7.1	-13.1	-17.7	-29.7	-19.1	-10.6	-5.99	-3.19	-1.58	-1.14	-1.83	-3.04	-4.84	-7.25	-8.61	-6.75	-4.59	-2.99	-2.11	-1.56	-1.29	-0.88	-0.7
θ (30°)	[1.26]	0.23	-2.63	-4.18	-4.68	-5.49	-7.43	-8.89	-7.49	-5.46	-3.87	-3.38	-3.88	-4.22	-4.82	-7.13	-11.1	-10.5	-8.17	-6.51	-5.25	-3.46	-1.64	0	1.26
θ (45°)	-0.88	-2.59	-3.06	-2.84	-5.67	-10	-12.3	-8.11	-4.35	-3.8	-2.81	-2.27	-4.43	-4.21	-7.19	-14.4	-10.8	-11.4	-12.9	-10.5	-6.18	-2.77	-4.26	-3.93	-0.88
θ (60°)	-11.6	-8.81	-6.23	-6.54	-11.8	-11.6	-12.9	-9.93	-6.89	-5.24	-2.15	-1.4	-1.9	-2.73	-6.03	-4.35	-6.29	-12.2	-10.5	-6.9	-4.11	-5.41	-3.19	-8.69	-11.6
θ (75°)	-7.73	-9.57	-8.76	-5.79	-5.8	-9.29	-14.6	-6.21	-2.04	-1.16	-1.76	-1.6	-1.06	-3.1	-3.7	-3.96	-6.22	-11.1	-26	-12.3	-6.41	-12.6	-10.8	-4.84	-7.73
θ (90°)	-6.33	-8.61	-11.3	-3.14	-3.22	-8.85	-15.5	-14.1	-4.34	-1.24	-1.43	-3.69	-3.1	-2.87	-3.26	-6.45	-5.33	-12.9	-12	-7.32	-3.47	-1.34	-2.51	-4.53	-6.33
θ (105°)	-5.7	-5.35	-12.5	-7.63	-6.56	-11.4	-15.2	-16.3	-10.7	-6.61	-12.5	-11.9	-4.93	-5.89	-10	-14	-20.6	-13.1	-10.4	-8.27	-2.22	0.09	-0.52	-0.32	-5.7
θ (120°)	-5.57	-10.7	-10.9	-12.8	-18.7	-21.9	-19.5	-13.2	-17.9	-12.6	-15	-23.5	-10.6	-17.4	-8.77	-13.2	-9.33	-12.3	-26.8	-17.7	-10.4	-3.12	-2.01	-0.71	-5.57
θ (135°)	-1.71	-6.89	-19	-13.7	-13.5	-13.6	-9.33	-11.6	-19.8	-9.31	-14.5	-9.92	-10.9	-21.9	-8.58	-14.5	-17	-30	-15.6	-11.5	-10.4	-20.5	-8.86	-1.1	-1.71
θ (150°)	-2.68	-2.35	-2.05	-6.6	-10.3	-6.08	-8.08	-11.4	-10.6	-9.26	-12.4	-24.7	-17.6	-14.2	-10.7	-9.34	-17.1	-8.59	-5.67	-8.89	-13.1	-21	-9.94	-6.87	-2.68
θ (165°)	-7.67	-4.36	-3.96	-5.59	-7.12	-8.85	-14	-28.4	-19.4	-13.9	-12.7	-15.9	-28.2	-15.7	-17	-16.4	-9.85	-7.52	-8.54	-14.3	-46.8	-21.9	-20.6	-15.6	-7.67
θ (180°)	-9.43	-8.05	-7.7	-8.38	-8.09	-7.52	-8.19	-10.8	-16.1	-25.5	-23	-16.6	-12	-9.43	-8.16	-7.48	-8.02	-9.64	-11.2	-13.8	-18.8	-36.6	-20.9	-13.8	-9.43

Ant.	No.3																								
Freq. (MHz)	5350																								
Polarity	Theta																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	-9.68	-8.02	-5.77	-4.68	-4.48	-4.89	-5.48	-6.71	-8.78	-11.8	-16.4	-15.5	-11.3	-7.7	-5.77	-4.74	-4.27	-4.22	-4.86	-6.24	-8.34	-11.9	-15.9	-14.9
θ (15°)	-6.72	-4.38	-3.5	-3.74	-4.47	-4.45	-4.47	-5.39	-6.35	-8.24	-11.4	-19.8	-19	-10.3	-6.63	-4.88	-4.35	-4.87	-6.14	-8.32	-11.6	-15.8	-18.1	-12.8	-6.72
θ (30°)	-5.6	-1.84	-0.68	-1.34	-2.7	-3.31	-2.49	-2.98	-6.19	-11.6	-12.6	-13.1	-16	-13	-11.7	-11.9	-13	-13.6	-11.6	-10.5	-11	-15.2	-31.7	-24.1	-5.6
θ (45°)	-5.21	-2.16	-0.76	0.64	-0.8	-0.67	-0.09	-2.25	-8.17	-13.5	-8.49	-8.9	-9.88	-8.45	-11	-11.2	-14.8	-12.4	-13.1	-15.9	-14.5	-18	-13.2	-13.4	-5.21
θ (60°)	-2.95	-2.84	-2.71	0.26	-2.51	-1.62	0.42	-1.78	-2.48	-5.83	-4.69	-4.93	-5.02	-5.23	-4.91	-6.47	-24.9	-25.8	-12.4	-9.2	-6.79	-6.42	-5.43	-8.58	-2.95
θ (75°)	-0.37	-4.92	-1.89	[2.09]	-2.68	0.63	-0.78	-0.93	-1.4	-6.79	-4.68	-2.5	-1.15	-2.92	-3.83	-8.27	-6.23	-8.1	-4.05	-2.56	-0.47	-1.51	-0.67	-2.9	-0.37
θ (90°)	1.23	-2.06	-3.58	-0.32	-2.39	-1.05	-0.92	-2.1	-1.01	-5.46	-6.4	-2.94	-2.56	-3.39	-3.57	-3.29	-4.11	-2.97	-4.67	-1.17	-3.19	-0.25	-1.31	-1.48	1.23
θ (105°)	-3.04	-5.56	-4.44	-2.67	-9.53	-1.67	-3.1	-2.97	-3.63	-7.99	-9.69	-2.26	-0.7	-9.52	-1.95	-7.61	-1.26	-2.73	-1.73	-0.19	-0.39	-0.24	-2.13	-3.26	-3.04
θ (120°)	-12.1	-7.48	-8.31	-7.34	-15	-12.4	-8.93	-12.9	-14.2	-7.37	-14.5	-9.55	-3.97	-15.9	-3.34	-10.4	-4.17	-2.32	-6.28	-1.09	-3.24	0.3	-3.82	-4.2	-12.1
θ (135°)	-8.58	-7.31	-6.17	-7.02	-15.2	-9.62	-12.5	-15.6	-10.7	-13.5	-14.2	-6.28	-9.98	-7.97	-11.7	-12.5	-4.04	-5.26	-6.8	-3.38	-2.6	-2.3	-5.46	-3.59	-8.58
θ (150°)	-6.83	-8.17	-16.2	-21.1	-17	-15.2	-13.4	-11.7	-10.1	-7.15	-5.94	-8.65	-11.8	-10.8	-19	-9.08	-5.22	-8.18	-13.7	-5.03	-4.68	-7.77	-6.23	-7.55	-6.83
θ (165°)	-8.86	-9.55	-9.77	-10.7	-12.7	-13.3	-16	-20.1	-23.5	-21.7	-19.6	-13.4	-11.9	-16	-13.8	-11.6	-13.7	-16	-9.68	-6.75	-7.87	-12.1	-14	-11	-8.86
θ (180°)	-8.56	-10.5	-12.8	-16.3	-26.5	-17.7	-9.95	-7.19	-5.88	-5.86	-7	-7.99	-8.68	-9.79	-11.6	-16.7	-30.5	-18.9	-13.5	-10.1	-8.54	-7.67	-7.64	-7.28	-8.56
Polarity	Phi																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	-5.51	-6.05	-6.93	-10.2	-13.3	-12.4	-9.69	-7.16	-5.38	-4.38	-3.83	-3.82	-4.45	-5.62	-7.95	-11.7	-14	-12.8	-9.41	-6.79	-5.34	-4.75	-4.02	-4.1
θ (15°)	-3	-4.87	-8.52	-14.3	-23.5	-24.5	-14.3	-9.67	-7.23	-5.65	-4.53	-3.97	-3.94	-5.03	-7.3	-9.36	-10.1	-8.72	-5.85	-4.06	-2.99	-2.04	-1.17	-1.28	-3
θ (30°)	[1.27]	-0.04	-2.14	-2.05	-2.19	-3.96	-7.05	-10.2	-8.79	-6.95	-4.85	-3.29	-3.76	-4.82	-4.97	-6.63	-11.8	-15.6	-10.1	-6.82	-4.92	-3.75	-2.55	-0.09	1.27
θ (45°)	-1.61	-2.91	-3.13	-3.43	-4.99	-7.98	-11.3	-9.76	-5.93	-4.73	-3.61	-3.18	-6.8	-6.96	-10.1	-15.5	-13.2	-15.9	-16.2	-11	-7.04	-4.12	-5.28	-3.86	-1.61
θ (60°)	-8.66	-8.87	-7.98	-7.49	-11.1	-11	-13.5	-11.7	-7.47	-5.81	-2.38	-1.21	-3.82	-4.14	-9.29	-5.16	-6.21	-12.6	-12	-8.48	-6.98	-4.52	-2.5	-11.6	-8.66
θ (75°)	-9.14	-9.49	-9.82	-6.09	-5.82	-10.7	-18.1	-6.67	-2.64	-2.46	-1.89	-1.64	-1.66	-3.91	-5.21	-3.44	-5.5	-10.1	-17.3	-18.6	-9.85	-31.4	-12.8	-6.76	-9.14
θ (90°)	-4.52	-8.83	-12.8	-3.95	-3.2	-9.7	-14.4	-18.5	-3.93	-0.72	-1.23	-4.24	-2.63	-3.64	-3.98	-5.27	-4.77	-14.8	-11.9	-10.2	-5.2	-2.88	-4.81	-5.26	-4.52
θ (105°)	-7.56	-9.34	-13.2	-6.54	-5.98	-14.3	-14.6	-14.3	-8.22	-5.98	-9.8	-9.44	-5.53	-6.8	-10.5	-14.8	-22.6	-13.1	-10.7	-7.93	-2.58	-0.53	-0.92	-1.73	-7.56
θ (120°)	-7.72	-11	-11.5	-16.6	-26.8	-25.4	-31	-14.1	-13.9	-14.3	-11.6	-28.9	-9.88	-13.7	-8.94	-13.8	-8.46	-12.4	-23.3	-14.8	-9.61	-3.12	-2.31	-0.96	-7.72
θ (135°)	-2.2	-7.06	-33.5	-12.9	-10.1	-10.4	-9.15	-10.8	-18.8	-10.1	-14.9	-9.22	-11.1	-22.9	-8.39	-12.8	-17.4	-21.8	-11.7	-10.2	-10.2	-20.9	-11.7	-2.56	-2.2
θ (150°)	-2.96	-3.79	-3.15	-7.4	-11.2	-6.94	-9.58	-12	-10.1	-8.01	-10.5	-24.4	-20.6	-13.3	-10.9	-9.18	-16.6	-10.6	-6.37	-8.08	-11.7	-18.9	-11.1	-8.7	-2.96
θ (165°)	-8.34	-5.19	-3.81	-4.9	-7.08	-8.18	-11.6	-20.2	-25.8	-16.1	-14.5	-17.9	-34	-15.4	-16.2	-17.6	-13.1	-10.5	-12.3	-22.7	-21.4	-19	-21.2	-14.5	-8.34
θ (180°)	-10.8	-8.97	-8.12	-7.28	-6.35	-6.19	-7.1	-9.23	-13.6	-20.9	-24.3	-18.1	-14.1	-10.2	-8.54	-8.52	-8.1	-7.97	-8.83	-10.8	-13.6	-17	-19.3	-16.2	-10.8

Ant.	No.3																								
Freq. (MHz)	5500																								
Polarity	Theta																								
dB	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ
	(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°)
θ (0°)	-10.7	-9.39	-8.33	-8.08	-8.4	-8.56	-8.92	-10.6	-13.4	-14.7	-14.8	-13.1	-10.8	-9.01	-8.25	-8.39	-8.2	-8.5	-9.98	-12.2	-15.3	-17.9	-16.9	-13.4	-10.7
θ (15°)	-6.48	-5.46	-5.53	-5.62	-5.36	-5.23	-5.35	-6.44	-8.93	-12.8	-13.9	-13.2	-16.8	-19.1	-12	-8.54	-7.29	-7.55	-8.42	-10.7	-15.6	-25.1	-16.5	-10.8	-6.48
θ (30°)	-5.64	-3.41	-3.11	-2.9	-3.29	-3.27	-2.11	-2.46	-5.03	-10.8	-20.9	-17.5	-14.6	-12.8	-9.29	-9.29	-11.5	-14.9	-11.9	-8.93	-9.02	-14.4	-29.9	-20.3	-5.64
θ (45°)	-6.46	-3.89	-2.41	-0.83	-1.24	-0.57	0.93	-1.03	-5.48	-13	-10.3	-6.64	-7.82	-9.62	-10.2	-9.13	-13.6	-13.7	-11.6	-11.6	-10.8	-8.23	-11.6	-11	-6.46
θ (60°)	-3.14	-3.32	-1.74	-0.39	-0.41	-0.4	0.85	-1.92	-2.91	-5.14	-7.56	-6.68	-6.38	-6.83	-6.89	-5.15	-21.3	-17.9	-16.5	-16.9	-5.83	-7.67	-7.15	-7.24	-3.14
θ (75°)	-1.68	-2.54	-2.6	-0.22	-1.45	[1.74]	0.82	-2.65	-1.57	-5.63	-7.07	-5.53	-1.81	-4.33	-2.19	-9.23	-4.91	-9.72	-4.18	-3.36	1.46	-1.09	-2.7	-4.14	-1.68
θ (90°)	0.74	-2.6	-3.29	-1.19	0.42	-0.07	-0.43	-4.63	-2.3	-7.57	-11.6	-6.31	-2.42	-3.29	-4.03	-3.59	-1.75	-2.92	-7.81	-3.06	-1.18	-1.03	-1.2	-1.6	0.74
θ (105°)	-1.09	-2.87	-4.4	-5.05	-3.6	-0.58	-2.15	-4.69	-4.03	-10.6	-12.4	-4.55	-1.01	-16.1	-2.16	-7.16	-0.81	-3.95	-1.47	-1.86	0.84	-3.49	-3.14	-5.67	-1.09
θ (120°)	-9.1	-7.67	-5.68	-8.4	-10	-11.5	-7.43	-8.34	-20.9	-7.03	-15.4	-12	-2.76	-22	-4.93	-10.8	-3.22	-1.29	-4.7	-0.69	-1.52	-1.04	-4.64	-5.55	-9.1
θ (135°)	-8.15	-6.48	-7.24	-7.65	-10.8	-11.4	-15	-29.3	-15	-16	-20.7	-6.71	-8.18	-9.18	-13.6	-14.2	-2.44	-2.5	-6.67	-2.19	-2.28	-4.65	-4.58	-4.71	-8.15
θ (150°)	-6.43	-9.72	-17.7	-23.8	-15.7	-13.4	-15.2	-13.1	-10.3	-7.03	-5.1	-7	-9.76	-11.5	-19.2	-12.5	-7.12	-9.21	-16.2	-5.16	-4.98	-8.43	-7.34	-7.51	-6.43
θ (165°)	-5.66	-6.21	-7.8	-10.3	-13.8	-18	-18.4	-19.8	-25.6	-28	-19.1	-13.1	-10.9	-14.3	-19.2	-15.1	-14.3	-15.8	-12.2	-9.32	-9.96	-12.8	-10.7	-7.85	-5.66
θ (180°)	-4.94	-6.42	-8.02	-9.47	-13.2	-31.9	-13.1	-8.21	-6.21	-5.38	-5.43	-5.8	-6.34	-6.74	-7.95	-10.5	-15.4	-29	-18	-11.4	-8.41	-6.74	-5.46	-4.49	-4.94
Polarity	Phi																								
dB	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ
	(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°)
θ (0°)	-9.4	-12	-15.3	-15.6	-15	-12.5	-10.2	-9.13	-8.53	-8.06	-8.18	-8.89	-10	-11.8	-14	-14.1	-13.7	-12.3	-9.76	-8.29	-7.61	-7.24	-7.95	-8.13	-9.4
θ (15°)	-7.04	-10.1	-11.4	-12	-12.7	-14.9	-13.5	-10.1	-7.9	-7.58	-9.2	-9.48	-8.36	-7.76	-8.17	-10.9	-12.9	-10.7	-8.09	-6.12	-4.43	-3.77	-3.75	-4.04	-7.04
θ (30°)	0.59	-0.3	0.46	0.82	-1.53	-5.24	-11.7	-15.7	-10.1	-7.52	-6.46	-5.38	-5.73	-7.51	-6.94	-6.06	-6.98	-8.42	-9.53	-6.88	-4.08	-3.21	-1.49	[1.02]	0.59
θ (45°)	-0.34	-1	-0.61	-1.21	-2.43	-5.29	-12.3	-14.3	-9.55	-7.5	-4.71	-2.5	-5.02	-7.45	-8.17	-11.3	-12.3	-15.1	-16.3	-8.12	-5.95	-5.96	-5.42	-2.04	-0.34
θ (60°)	-6.78	-6.16	-5.99	-5.28	-6.9	-7.33	-10.7	-14.4	-8.94	-5.55	-3.14	-0.85	-4.67	-5.11	-11.8	-6.89	-4.99	-12	-11.8	-7.08	-7.19	-4.77	-3.43	-10.2	-6.78
θ (75°)	-7.75	-5.73	-6.54	-4.61	-5.96	-14.4	-14.5	-8.09	-4.63	-4.33	-2.11	-1.54	-1.74	-5.65	-6.51	-4.04	-6.01	-8.26	-9.27	-12	-18.5	-13.5	-8.79	-9.89	-7.75
θ (90°)	-4.28	-9.87	-10.6	-3.58	-5.17	-12	-13.9	-13.4	-4.57	-2.79	-2.56	-3.21	-3.37	-4.21	-5.24	-4.92	-8.02	-14.9	-18.8	-13.6	-4.02	-5.06	-7.37	-3.79	-4.28
θ (105°)	-7.89	-12.3	-10.8	-4.81	-5.98	-13.4	-14.1	-23	-8.1	-6	-7.75	-6.04	-4.23	-7.01	-11.7	-14.4	-18.3	-15.2	-12.5	-8.96	-4.94	-2.53	-0.42	-1.88	-7.89
θ (120°)	-12	-10.7	-12	-13.1	-17	-21	-21.6	-17.5	-9.15	-20.1	-9.27	-21.7	-7.48	-9.83	-12	-11.4	-6.2	-12.8	-27.2	-15.6	-10.2	-2.71	-1.49	-1.26	-12
θ (135°)	-3.37	-7.01	-20	-17.4	-11.9	-10.7	-8.53	-8.78	-12.8	-13.1	-13.3	-10.2	-8.2	-29.2	-10.9	-10.4	-14.1	-10.7	-6.5	-8.69	-12.4	-12.8	-12.8	-3.93	-3.37
θ (150°)	-3.45	-4.43	-5.14	-9.05	-14.1	-7.48	-8.75	-14.2	-12.1	-8.74	-10.8	-17.4	-23.5	-14.3	-9.66	-6.8	-12.4	-12.9	-5.54	-6.37	-11.6	-18.5	-16.8	-13.3	-3.45
θ (165°)	-9.2	-5	-3.58	-4.2	-5.97	-7.86	-11.8	-18.3	-25.9	-23	-18.5	-18.1	-18.5	-15	-15.2	-18.9	-28.3	-19.9	-16	-15.5	-14.6	-15.9	-21.9	-19.1	-9.2
θ (180°)	-15.5	-11.3	-7.53	-6.11	-5	-3.99	-4.17	-5.59	-8.76	-13.2	-20.1	-23.5	-17	-12.3	-9.66	-7.76	-6.6	-6.65	-6.61	-7.1	-8.49	-10.6	-14.6	-20.8	-15.5



Ant.	No.3																								
Freq. (MHz)	5650																								
Polarity	Theta																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	-8.66	-7.45	-6.94	-6.2	-6.66	-8.08	-10.4	-13.8	-19.9	-36.9	-18.1	-12.2	-9.5	-7.95	-6.68	-6.44	-7.12	-7.63	-9.51	-12.1	-17.3	-44.2	-17.5	-12.3
θ (15°)	-7.37	-4.44	-3.12	-3.01	-3.6	-3.81	-4.34	-5.27	-8.16	-16.8	-17	-9.91	-8.23	-9.16	-10.3	-9.69	-8.36	-8.1	-8.88	-9.97	-11.4	-14.8	-26.2	-16.3	-7.37
θ (30°)	-8.95	-5.25	-3.14	-1.56	-1.27	-2.69	-2.96	-2.78	-3.48	-5.82	-12.7	-15.6	-11.1	-10.5	-8.85	-7.82	-9.73	-16.9	-18.7	-13.2	-13	-22.1	-21.7	-24	-8.95
θ (45°)	-7.76	-6.12	-2.29	0.17	-0.47	-0.99	-0.02	-1.98	-6.02	-13	-9.8	-5.62	-7.01	-8.39	-9.03	-8.21	-12.3	-8	-7.4	-8.35	-8.16	-4.5	-6.82	-9.27	-7.76
θ (60°)	-3.22	-3.04	-2.19	-0.55	-0.41	-0.77	1.66	-1.36	-3.88	-3.83	-5.47	-3.07	-8.04	-6.45	-5.8	-3.96	-14.3	-10.4	-16.3	-10.2	-4.82	-9.09	-5.89	-5.54	-3.22
θ (75°)	-2.34	0.34	-0.09	1.58	-0.69	[1.91]	1.83	-2.14	-1.27	-3.34	-4.37	-3.61	-3.93	-4.13	-0.86	-11	-6.91	-10.5	-2.72	-2.36	1.29	-3.52	-4.39	-1.68	-2.34
θ (90°)	-1	-2.6	-1.06	-0.56	0.48	-0.21	0.1	-3.24	-3.57	-6.42	-10.1	-4.09	-3.49	-2.01	-2.26	-3.65	-3.9	-4.78	-3.56	-1.35	0.48	-2.27	-0.23	-0.16	-1
θ (105°)	-1.77	-1.47	-2.54	-4.6	-2.14	-0.56	-1.44	-6.63	-5.77	-17.7	-9.57	-6.85	-0.82	-8.34	-1.06	-7.28	-1.66	-2.38	0.17	-0.65	1.6	-4.96	-0.81	-4.1	-1.77
θ (120°)	-7.13	-11.2	-6.62	-7.58	-7.67	-6.17	-4.95	-7.35	-14.5	-11.4	-18.3	-12.2	-2.88	-11.5	-5.97	-8.11	-2.82	-1.36	-2.22	-0.58	-1.23	-3.96	-2.28	-3.43	-7.13
θ (135°)	-4.49	-6.19	-9.53	-8.47	-12.2	-9.4	-13.4	-26	-16.8	-12.6	-10.7	-12.1	-7.64	-10.1	-8.76	-21.6	-2.15	-3.32	-6.5	-1.58	-1.35	-6.48	-1.96	-3.83	-4.49
θ (150°)	-5.37	-8.79	-18.9	-23.9	-13.9	-14.2	-17.3	-14.8	-10.1	-7.17	-6.15	-9.13	-10.9	-8.34	-9.44	-33.1	-9.11	-11.4	-14	-4.62	-5.31	-8.05	-6.1	-5.83	-5.37
θ (165°)	-4.52	-4.77	-6.19	-8.54	-13.9	-26	-21.2	-21.5	-25.9	-28.8	-23.6	-15.6	-11.1	-11.7	-15.1	-16	-15.7	-17.7	-13.5	-9.9	-9.85	-10.5	-8.18	-6.23	-4.52
θ (180°)	-3.47	-4.36	-5.54	-7.23	-10.8	-21	-16.1	-8.87	-6.33	-4.94	-4.42	-4.31	-4.41	-4.75	-5.28	-6.83	-10.4	-16.5	-21.8	-12.3	-8.07	-5.41	-4.14	-3.33	-3.47
Polarity	Phi																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	-10.8	-12.6	-19.9	-28.8	-16.1	-11.3	-8.72	-7.3	-6.4	-6.26	-7.06	-8.69	-11.2	-14.8	-22.5	-27.3	-16.2	-11.2	-8.84	-7.77	-6.79	-6.59	-6.52	-7.58
θ (15°)	-3.05	-3.74	-4.18	-5.75	-9.44	-14.7	-13.6	-8.94	-6.01	-4.78	-5.81	-9.71	-16.5	-13.3	-10.4	-9.42	-9.98	-9.95	-7.99	-5.74	-4.13	-2.7	-1.6	-1.68	-3.05
θ (30°)	0.76	0.13	0.51	0.35	-1.79	-4.96	-9.68	-12.6	-9.35	-6.76	-6.88	-8.44	-9.1	-7.5	-7.18	-6.7	-6.72	-7.83	-9.53	-9.79	-6.4	-3.27	-0.47	[1.09]	0.76
θ (45°)	-0.09	-0.79	-0.18	-1.04	-2.99	-5.84	-13.1	-13.4	-10.1	-8.23	-4.95	-3.19	-7.38	-9.55	-5.98	-8.14	-8.66	-12	-17.9	-10.4	-8.1	-4.63	-3.44	-1.43	-0.09
θ (60°)	-6.33	-4.72	-5.37	-3.68	-4.15	-6.14	-14.2	-30.5	-9.04	-3.36	-2.91	-0.82	-5.83	-6.72	-7.64	-6.05	-4.16	-11.3	-16.9	-6.9	-6.34	-2.66	-3.09	-7.93	-6.33
θ (75°)	-6.2	-3.89	-5.68	-6.31	-6.78	-11	-10.7	-5.32	-3.08	-4.51	-3.88	-0.05	-1.48	-3.73	-5.07	-2.95	-5.78	-11.3	-10.6	-8.52	-17.4	-8.23	-4.27	-5.76	-6.2
θ (90°)	-4.7	-6.71	-7.46	-5.03	-4.98	-8.42	-15	-7.11	-3.89	-4.92	-3.59	-2.24	-2.33	-5.05	-5.93	-5.53	-7.52	-9.95	-19.8	-15.1	-5.2	-6.05	-9.6	-5.37	-4.7
θ (105°)	-5.97	-13.2	-15	-5.57	-5.73	-14	-17.3	-18.7	-6.82	-8.87	-8.23	-4.73	-3.09	-5.75	-9.2	-13.8	-18.4	-11.5	-11.5	-9.74	-4.37	-1.5	-1.99	-3.4	-5.97
θ (120°)	-10.8	-8.89	-8.96	-11.3	-11.6	-12.8	-13.7	-19.7	-7.21	-13.6	-11.5	-18.4	-4.69	-6.81	-17.8	-6.35	-5.06	-14	-32.8	-13.6	-11.9	-4.01	-2.08	-1.61	-10.8
θ (135°)	-3.28	-6.72	-9.65	-19.7	-16.7	-11.8	-9.52	-9.27	-13.9	-12.7	-12.4	-8.91	-6.46	-32.4	-12.4	-9.11	-14	-7.95	-5.37	-7.24	-13	-11.1	-10.4	-3.4	-3.28
θ (150°)	-2.05	-5.45	-9.13	-15	-15.8	-8.83	-9.29	-11.6	-15.3	-11.5	-10.1	-13.1	-17.4	-13.2	-8.18	-5.87	-10.1	-10.1	-4.87	-6.5	-12.1	-15.4	-19.6	-8.38	-2.05
θ (165°)	-11.9	-5.82	-3.88	-4.16	-4.73	-5.86	-8.46	-14.8	-28	-20.2	-15.3	-12.9	-15.1	-24.1	-16.6	-18.9	-20.4	-11.9	-9.17	-9.47	-11.7	-15.5	-25.9	-30.7	-11.9
θ (180°)	-19.3	-12.4	-8.65	-5.96	-3.66	-2.56	-2.72	-3.84	-5.96	-9.18	-13.9	-23	-24.6	-16.5	-11	-7.65	-5.93	-4.85	-4.66	-5.17	-6.48	-7.92	-10.7	-16.3	-19.3



Ant.	No.3																								
Freq. (MHz)	5850																								
Polarity	Theta																								
dB	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
	(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°)
θ (0°)	-7.83	-6.16	-4.75	-4.4	-4.37	-4.93	-5.94	-8.1	-12	-18.4	-22.3	-12.4	-8.57	-6.7	-5.37	-4.36	-4.3	-4.77	-5.75	-7.75	-11.1	-18.2	-22.6	-13.1	-7.83
θ (15°)	-5.38	-4.34	-4.41	-4.21	-3.82	-3.73	-4.12	-4.44	-5.5	-7.05	-9.64	-14.7	-15.1	-10.3	-8.28	-7.34	-6.15	-5.51	-5.05	-5.17	-6.61	-9.69	-13.8	-10.1	-5.38
θ (30°)	-3.76	-2.59	-1.93	-1.37	-1.62	-2.65	-2.82	-3.34	-5.19	-8.66	-13.7	-23.1	-17.3	-10.9	-9.17	-8.17	-8.01	-9.75	-10.3	-10.4	-12.1	-11.4	-10.5	-7.63	-3.76
θ (45°)	-4.54	-5.58	-4.24	-1.13	-0.2	0.27	1.36	-1.32	-6.9	-15.3	-20.1	-9.18	-8	-5.69	-9.41	-13.5	-12.5	-8.33	-7.36	-9.55	-18.4	-9.31	-15.4	-9.3	-4.54
θ (60°)	-3.07	-3.63	-7.3	-2.9	1.69	1.17	2.89	0.93	-3.75	-7.39	-9.73	-2.82	-5.32	-4.88	-9.97	-6.59	-8.27	-8	-7.8	-6.08	-4.84	-5.16	-6.21	-4.85	-3.07
θ (75°)	-2.05	0.27	-2.86	1.72	1.09	[3.57]	3.12	0.88	-0.48	-3.83	-4.34	-1.84	-4.86	-5.36	-2.37	-9.42	-13.2	-10.2	-3.34	-2.66	-1.46	-2.19	-1.87	-1.33	-2.05
θ (90°)	0.31	0.24	-1.33	0.22	-0.58	1.95	2	0.44	-3.12	-8.61	-8.63	-1.32	-3.65	-3.31	-3.51	-3.8	-5.41	-3.37	-2.31	-1.13	-1.85	-4.16	0.25	0.46	0.31
θ (105°)	-1.35	0.41	-2.32	-2.58	-2.13	0.16	-1.41	-3.43	-5.88	-19.1	-7.74	-1.71	-3.32	-5.24	-1.53	-8.35	-2.07	-0.96	-0.24	0.5	0.58	-5.88	0.82	-1.46	-1.35
θ (120°)	-4.08	-7.42	-3.81	-8.01	-10.6	-4.85	-2.38	-6.01	-12.7	-13.6	-14.8	-5.44	-2.56	-9.16	-6.79	-8.49	-2.94	-1.92	-1.76	-1.01	-0.87	-1.86	0.98	-1.93	-4.08
θ (135°)	-1.28	-3.89	-6.26	-4.65	-11.2	-11	-12.3	-17.2	-21.4	-11.2	-6	-6.36	-8.46	-17.9	-6.41	-32.2	-2.94	-4.27	-4.89	-0.41	-1.07	-4.38	-0.26	-2.05	-1.28
θ (150°)	-8.73	-12.4	-14.3	-17.7	-15.4	-12.7	-17	-15.4	-9.82	-5.97	-3.97	-5.95	-10.6	-8.11	-8.68	-18.1	-8.92	-11.4	-8.46	-3.88	-7.17	-9.21	-7.18	-7.44	-8.73
θ (165°)	-6.03	-5.87	-7.42	-7.91	-11.2	-23.3	-23.5	-20.8	-22.8	-21.2	-15.4	-12	-10.9	-12.7	-15.1	-13.6	-12.9	-13.1	-9.7	-7.75	-9.93	-13.5	-11.3	-8.84	-6.03
θ (180°)	-5	-6.11	-7.3	-7.64	-10.5	-16.5	-17	-10.4	-7.86	-6.44	-5.9	-6.28	-6.36	-5.99	-6.26	-7.52	-10	-13.7	-19.6	-15.1	-10.2	-7.28	-5.89	-5.19	-5
Polarity	Phi																								
dB	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
	(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°)
φ (0°)	-6.62	-8.63	-14.1	-24.8	-22.9	-15.2	-9.88	-6.91	-5.52	-4.96	-4.48	-4.63	-5.95	-8.86	-13.7	-29.7	-18.1	-11.7	-7.93	-6.07	-5.15	-4.45	-4.49	-5.36	-6.62
φ (15°)	-2.78	-3.19	-3.29	-4.23	-6.35	-10.4	-16.3	-16.6	-11.6	-8.47	-7.1	-7.16	-8.94	-13.2	-19.5	-17.8	-13.7	-11.3	-8.57	-6.13	-3.39	-1.87	-1.9	-2.34	-2.78
φ (30°)	-1.65	-1.6	[0.40]	0.36	-1.97	-6.15	-11.8	-20.1	-14.3	-9.03	-8.41	-11.7	-13.8	-12.8	-9.47	-7.88	-8.74	-10.2	-8.61	-6.75	-5.1	-2.52	-0.53	-0.24	-1.65
φ (45°)	-2.58	-2.62	-0.94	-0.32	-3.71	-10.1	-16	-11.6	-8.66	-6.76	-9.58	-5.86	-6.34	-9.51	-7.84	-14.3	-23.7	-30.5	-23.7	-22.9	-8.19	-3.55	-3.36	-1.45	-2.58
φ (60°)	-4	-1.6	-0.8	-2.44	-6.51	-9.39	-22	-13.9	-5.77	-3.17	-4.64	-3.45	-5.35	-8.47	-8.4	-7.84	-5.18	-8.36	-13.3	-10.1	-5.05	-1.52	-4.17	-8.98	-4
φ (75°)	-6.72	-1.85	-3.51	-7.67	-10.7	-10.3	-9.33	-5.33	-2.05	-2.81	-4.48	-1.07	-2.69	-3.81	-3.76	-2.01	-4.22	-8.21	-11	-7.46	-9.27	-6.42	-3.91	-6.15	-6.72
φ (90°)	-9.18	-5.63	-4.41	-10.1	-9.48	-11.1	-17.7	-6.21	-1.95	-3.7	-4.5	-2.01	-1.86	-5.11	-4.88	-5.72	-6.17	-11.5	-22.8	-18.9	-8.06	-11	-11.9	-14.1	-9.18
φ (105°)	-6.36	-15.1	-12.9	-8.69	-11.7	-30.6	-25.4	-9.37	-3.12	-7.23	-8.79	-3.41	-3.26	-6.66	-8.92	-23.7	-19	-20.6	-21.3	-9.83	-3.57	-1.68	-2.38	-4.95	-6.36
φ (120°)	-7.74	-7.27	-9.18	-13.7	-12.1	-16.6	-12.5	-18	-5.81	-6.4	-8.11	-11.5	-6.83	-5.72	-14.8	-6.54	-8.71	-19.2	-20.1	-21	-9.39	-2.18	-3.15	-1.17	-7.74
φ (135°)	-2.47	-7.49	-8.43	-10.6	-12.4	-10	-10.1	-8.74	-12.2	-8.93	-8.47	-7.97	-7.27	-25	-12	-6.33	-12.7	-8.22	-5.51	-7.26	-13.3	-10	-7.71	-1.82	-2.47
φ (150°)	-0.72	-4.15	-10.9	-12.9	-14.9	-9.36	-10.2	-13.5	-13.6	-10.3	-8.46	-12.9	-17.2	-13.9	-7.55	-5.2	-10.7	-9.63	-5.67	-7.33	-10.4	-9.04	-13.3	-6.35	-0.72
φ (165°)	-22.1	-9.22	-5.37	-5.61	-5.27	-5.2	-7.13	-14	-22.9	-14.5	-11.8	-14.3	-19.6	-23.4	-22.2	-29.6	-13.4	-7.84	-6.17	-7.29	-9.07	-10.8	-14.5	-18.7	-22.1
φ (180°)	-18.1	-14.9	-10.6	-8	-5.54	-3.67	-3.38	-4.41	-6.53	-9.67	-13.4	-20.1	-27.8	-22.4	-15.1	-11.6	-8.86	-7.07	-6.6	-6.83	-7.39	-8.58	-11	-15.3	-18.1



BUREAU
VERITAS

Ant.	No.4																								
Freq. (MHz)	5150																								
Polarity	Theta																								
	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	
dB	(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°)
θ (0°)	[1.36]	1.34	0.53	-0.78	-2.95	-6.79	-14.5	-14.6	-6.93	-2.94	-0.76	0.46	1.15	1.24	0.59	-0.76	-2.55	-6.51	-13.7	-13.8	-6.72	-2.93	-0.63	0.74	1.36
θ (15°)	1.05	0.52	-0.24	-1.31	-3.52	-7.11	-11.7	-8.87	-4.31	-1.57	-0.15	0.45	0.6	0.46	-0.31	-2.05	-4.82	-8.66	-12.7	-10.4	-5.02	-1.62	0.12	0.72	1.05
θ (30°)	-1.07	-2.12	-4.03	-2.88	-1.64	-3.05	-7.26	-9.23	-7.32	-6.1	-2.74	-0.55	0.6	0.18	-1.49	-3.85	-6.89	-11	-13.9	-13.8	-11.2	-6.38	-2.82	-1.85	-1.07
θ (45°)	-8.82	-5.82	-10.3	-7.39	-5.49	-5.83	-7.16	-7.89	-3.89	-2.67	-2.76	-1.15	-1.51	-4.68	-7.45	-9.44	-15.6	-15.3	-10	-5.78	-7.6	-6.69	-7.79	-6.08	-8.82
θ (60°)	-24.3	-8.83	-4.04	-9.65	-15.5	-9.26	-6.51	-8.47	-5.95	-2.26	-2.86	-2.15	-3.64	-5.53	-3.98	-10.3	-18.3	-18.2	-12.7	-8.14	-9.38	-10.5	-7.11	-3.57	-24.3
θ (75°)	-21.2	-17.8	-6.02	-16.1	-17.2	-9.55	-9.08	-9.75	-4.95	-2.67	-4.13	-5.51	-4.24	-4.84	-7.53	-17.1	-18.3	-20.7	-18.3	-15	-18.4	-22.3	-9.06	-7.34	-21.2
θ (90°)	-11.5	-11.9	-18	-4.68	-9.56	-6.89	-8.06	-7.7	-4.94	-3.38	-9.56	-7.94	-8.45	-14.9	-13.8	-15.5	-17.5	-27.6	-38.6	-25	-13.8	-11.9	-7.07	-8.95	-11.5
θ (105°)	-10.1	-9.16	-14.2	-12.1	-10.5	-9.85	-8.4	-9.55	-13.7	-21.7	-12.6	-17.7	-20.4	-16.8	-18.5	-19.3	-13.1	-16.6	-20.9	-24.7	-11.7	-8.08	-4.11	-3.31	-10.1
θ (120°)	-2.04	-2.15	-6.51	-7.18	-8.69	-10.3	-20.1	-13.9	-11.9	-19.3	-8.85	-16.7	-15.3	-7.71	-9.27	-9.42	-13.7	-14.5	-36.5	-15.3	-8.45	-4.54	-3.33	-2.84	-2.04
θ (135°)	-5.4	-2	-3.35	-6.52	-7.23	-10.7	-34.7	-11.7	-13.9	-8.41	-6.13	-8.92	-4.19	-5.01	-7.02	-12.5	-11.5	-18.5	-17.3	-14.6	-7.71	-4.33	-1	-1.93	-5.4
θ (150°)	-0.5	-2.85	-4.09	-3	-4.14	-6.17	-10.7	-12.3	-7.43	-5.68	-9.45	-10.9	-6.34	-7.2	-4.45	-8.05	-18.9	-17.6	-16.7	-20.7	-5.75	-2.85	-2.76	-0.42	-0.5
θ (165°)	-0.5	-0.41	-1.72	-3.27	-4.03	-5.82	-7.86	-11.2	-11	-11.8	-16.1	-14.2	-15.3	-10.1	-5.86	-5.97	-8.44	-13.1	-16.3	-13.6	-8.34	-5.83	-4.51	-2.79	-0.5
θ (180°)	-7.98	-8.06	-8.09	-8.83	-10.7	-12.3	-14.7	-17.7	-18.7	-12	-8.26	-6.43	-5.89	-6.39	-7.63	-7.46	-8.43	-10.2	-12.6	-15.3	-17.1	-13.4	-10.7	-8.89	-7.98
Polarity	Phi																								
	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ
dB	(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°)
θ (0°)	-19.8	-19.9	-8.43	-3.97	-1.48	0.09	0.82	0.91	0.27	-0.96	-3.15	-6.8	-14.2	-21.2	-8.43	-4.16	-1.39	0.12	0.76	1.03	0.66	-0.56	-2.7	-6.44	-19.8
θ (15°)	-17.9	-15.4	-7.84	-3.56	-0.62	1.07	1.31	0.67	-0.24	-1.57	-4.47	-9.03	-17.6	-19.8	-9.19	-4.87	-3.08	-1.86	-0.96	-0.48	-0.46	-1.24	-3.02	-5.57	-17.9
θ (30°)	-8.44	-4.58	-4.28	-4.41	-1.23	1.57	2.84	2.89	1.18	-1.46	-2.23	-4.35	-9.43	-13.7	-9.72	-7.21	-4.41	-2.71	-1.97	-1.89	-3.4	-4.09	-6.57	-14.1	-8.44
θ (45°)	-17.5	-9.03	-3.24	-1.32	0.68	1.23	1.71	2.04	1.06	-0.91	-2.18	-5.03	-7.78	-7.36	-8.77	-5.78	-6.93	-8.09	-5.4	-6.26	-4.43	-3.41	-7.75	-15.9	-17.5
θ (60°)	-19.9	-25.1	-7.4	-0.14	1.71	2.29	1.77	-0.08	1.25	-0.19	-3.97	-5.91	-9.92	-8.11	-2.06	-1.24	1.32	-0.02	-4.59	-4.56	-11.7	-3.36	-3.6	-5.11	-19.9
θ (75°)	-17.8	-13	-11.6	-2.99	-2.32	-1.02	-0.59	-1.81	-1.82	-3.65	-5.05	-14.5	-11.1	-3.92	0.17	1.11	[3.18]	1.61	-4.76	-1.79	-11.2	-11.9	-3.42	-6.69	-17.8
θ (90°)	-7.88	-12.2	-5.02	-1.08	-1.68	0.46	1.79	0.89	-1.62	-1.77	-4.51	-21.7	-15.5	-6.26	-4.05	0.61	0.53	-3.39	-2.74	-5.64	-5.81	-15.6	-18	-7.88	
θ (105°)	-8.72	-9.36	-7.79	-1.86	0.28	1.35	0.46	-3.18	-2.5	-6.54	-11.2	-17.5	-13.7	-6.51	-9.59	-5.46	-3.33	-1.69	-10.6	-4.54	-4.08	-11.5	-6.01	-11.6	-8.72
θ (120°)	-29.9	-8.77	-10.3	-4.12	-0.02	1.42	0.21	-1.3	-2.48	-3.95	-7.64	-15.1	-21.4	-9.29	-8.57	-4.35	-10.4	-3.59	-12.4	-4.47	-1.74	-3.55	-14.2	-30.5	-29.9
θ (135°)	-11.8	-5.13	-0.15	0.67	0.62	-0.69	-1.21	0.49	-1.72	-7	-8.07	-8.03	-17.3	-10.6	-6.71	-14.5	-6.83	-7.05	-23.2	-5.68	-4.55	-4.51	-7.17	-6.94	-11.8
θ (150°)	-6.82	-7.33	-6.14	-2.73	-1.36	-0.99	-1.85	-5.04	-3.89	-3.92	-13.7	-8.58	-12	-27	-13.9	-12.1	-7.95	-4.91	-7.19	-10.2	-6.36	-8.61	-10.1	-9.43	-6.82
θ (165°)	-7.72	-11.6	-13.8	-11.5	-8.31	-7.21	-5.64	-4.71	-5.45	-9.45	-16.5	-13.4	-11.7	-14.9	-18.7	-10.7	-8.33	-9	-7.87	-4.67	-3.03	-3.41	-4.33	-5.28	-7.72
θ (180°)	-16.7	-20.3	-18.8	-14.6	-15.3	-15.8	-13.4	-9.71	-6.44	-5.05	-6	-9.09	-15.2	-22	-21.2	-14.9	-11	-8.63	-7.42	-6.69	-6.94	-7.77	-9.26	-11.9	-16.7



Ant.	No.4																										
Freq. (MHz)	5250																										
Polarity	Theta																										
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ		
		(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°)	
dB																											
θ (0°)		1.85	1.83	1.39	0.22	-2.03	-5.71	-12.9	-15.7	-6.77	-2.44	0.02	1.35	[1.92]	1.81	1.25	0.11	-2	-5.86	-12.9	-16.3	-7.05	-2.72	-0.29	1.21	1.85	
θ (15°)		-0.24	-0.44	-0.63	-1.27	-3	-6.09	-9.14	-7.66	-4.15	-1.53	0.28	0.99	0.8	0.3	-0.5	-1.89	-3.96	-7.24	-12.7	-13.2	-6.22	-2.55	-0.97	-0.27	-0.24	
θ (30°)		-0.88	-2.53	-3.78	-2.62	-1.86	-3.11	-6.57	-8.35	-6.09	-4.61	-3.09	-0.93	-0.09	-0.35	-0.86	-1.67	-4.19	-8.01	-11.1	-10.2	-11.1	-6.4	-2.9	-0.74	-0.88	
θ (45°)		-5.7	-6.79	-11.3	-10.7	-6.31	-5.92	-8.14	-8.81	-6.69	-2.56	-1.55	-1.6	-2.31	-3.8	-9.3	-12.2	-13.5	-9.75	-8.37	-5.57	-8.17	-9.99	-8.37	-10.1	-5.7	
θ (60°)		-14.9	-5.74	-2.25	-11.7	-20.9	-8.56	-7.91	-10.1	-9.56	-4.17	-3.47	-2.4	-4.8	-7.2	-4.15	-10.8	-17.4	-19.1	-15.4	-8.01	-9.97	-9.1	-7.03	-5.81	-14.9	
θ (75°)		-23.3	-15	-7.31	-16.6	-21	-11.2	-11.2	-11.2	-6.92	-3.06	-4.06	-5.31	-4.7	-3.88	-6.29	-15.2	-12.6	-13.9	-19.1	-11.5	-16.9	-20.6	-8.47	-7.95	-23.3	
θ (90°)		-11.5	-12.4	-23.6	-5.22	-12	-10.7	-9.99	-10.4	-5.94	-3.27	-6.66	-9.16	-8.05	-13.7	-14.8	-16.9	-11.9	-20.1	-25.9	-17.1	-13.3	-13.2	-4.52	-8.09	-11.5	
θ (105°)		-9.48	-10.1	-15.2	-11.8	-11.9	-13.9	-11.7	-10.6	-11.4	-13.5	-14	-15.1	-19.8	-15.5	-21.3	-27.2	-17.3	-19.5	-32.9	-24.9	-8.65	-8.5	-4	-4.48	-9.48	
θ (120°)		-3.07	-2.97	-6.04	-5.01	-8.25	-10.5	-16.2	-17.3	-9.45	-17.9	-8.86	-11	-16	-8.67	-10.9	-9.83	-22.2	-18.4	-24.9	-14.3	-8.77	-4.04	-2.92	-4.06	-3.07	
θ (135°)		-4.28	0.28	-2.42	-4.79	-4.54	-6.81	-18.9	-13.8	-13.9	-10.1	-4.79	-5.81	-7.55	-5.94	-5.51	-7.85	-10.3	-10.4	-23.7	-17.7	-22.4	-7.69	-4.02	-1.5	-2.87	-4.28
θ (150°)		-0.87	-3.65	-3.16	-2.59	-4.12	-5.82	-8.2	-11.4	-8.12	-6.39	-7.5	-11	-5.49	-7.53	-5.29	-6.32	-13.2	-28.6	-17	-22.1	-5.65	-3.03	-3.09	-0.08	-0.87	
θ (165°)		0.17	-0.03	-1.26	-2.33	-3.49	-4.48	-6.85	-10.8	-10.5	-9.25	-11	-11.6	-14	-12.4	-7.06	-6.08	-9.24	-14.7	-22.5	-16.8	-10.2	-6.54	-4.1	-1.97	0.17	
θ (180°)		-8.65	-7.15	-7.07	-8.18	-9.31	-11.4	-13.3	-17.4	-22.9	-14.1	-8.87	-6.67	-6.31	-6.46	-6.46	-7.17	-7.77	-9.51	-12.3	-17.5	-25.1	-18.9	-13.3	-10.2	-8.65	
Polarity	Phi																										
		φ <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th> <th>φ</th>	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)	
dB																											
θ (0°)		-15	-21.2	-7.84	-3.45	-0.62	0.83	1.48	1.79	1.49	0.33	-1.66	-5.17	-12.5	-19.5	-7.84	-3.29	-0.76	0.65	1.62	1.71	1.1	0.08	-1.87	-5.14	-15	
θ (15°)		-12.8	-13.2	-6.75	-2.75	-0.66	0.62	1.52	1.34	-0.06	-2.01	-4.52	-8.71	-17	-18.5	-9.48	-5.16	-2.33	-0.82	0.09	0.7	0.5	-0.57	-2.42	-4.57	-12.8	
θ (30°)		-12.2	-9.91	-9.64	-3.14	0.02	1.64	2.1	2.03	1.44	-0.67	-4.65	-7.6	-11.5	-9.5	-6.87	-5.56	-3.71	-1.71	-0.95	-1.7	-1.95	-2.62	-8.41	-13.9	-12.2	
θ (45°)		-16.1	-6.83	-2.4	0.2	0.86	1.69	1.55	1.78	1.48	-1.18	-3.1	-4.85	-9.7	-9.5	-7.6	-4.91	-6.52	-9.7	-6.9	-9.52	-4.54	-3.68	-9.95	-19.1	-16.1	
θ (60°)		-12.5	-13.3	-11	0.08	-0.59	-0.88	-0.11	-0.84	-1.42	-0.63	-5.72	-6.33	-8.92	-7.67	-0.94	-0.47	0.63	1.15	-2.91	-1.61	-8.68	-4.65	-3.14	-7.3	-12.5	
θ (75°)		-13.8	-17.5	-6.41	-2.11	-0.82	0.3	-0.36	-0.87	-2.59	-2.48	-5.31	-11.4	-14	-4	0.17	1.2	[2.91]	1.61	-4.45	-1.18	-13.4	-13.1	-5.35	-5.34	-13.8	
θ (90°)		-8.63	-10.1	-2.45	-1.46	-0.26	2.2	2.31	1.46	-0.6	-1.88	-3.76	-15.5	-26.5	-6.43	-3.18	-2.11	-0.12	0.59	-2.54	-1.95	-5.73	-5.73	-15.7	-33.7	-8.63	
θ (105°)		-9.49	-11.8	-8.54	-1.86	0.2	1.8	1.63	-1.93	-2.83	-5.79	-9.93	-15.9	-19.1	-6.76	-7.37	-8.59	-3.18	-2.29	-9.68	-4.06	-2.98	-10.9	-5.01	-9.76	-9.49	
θ (120°)		-14	-7.88	-10.3	-3.15	0.92	2.65	1.08	-1.53	-2.16	-4.28	-7.61	-13.4	-14.3	-9.5	-9.24	-4.44	-11.8	-3.04	-9.13	-4.9	-2.21	-4.57	-9.92	-16.4	-14	
θ (135°)		-17.1	-4.22	-0.41	0.64	0.98	-0.9	-2.44	-0.17	-0.7	-6.14	-7.06	-7.32	-24.1	-12.4	-7	-12.8	-7.37	-7.36	-13.7	-4.18	-3.22	-3.11	-6.83	-8.05	-17.1	
θ (150°)		-9.06	-10.7	-6.57	-3.21	-1.84	-0.73	-1.27	-5.05	-4.3	-2.1	-9.89	-7.64	-8.6	-19.6	-21.3	-12.1	-6.8	-4.1	-6.83	-11.3	-8.31	-8.86	-8.38	-8.34	-9.06	
θ (165°)		-5.62	-9.88	-12.4	-9.53	-6.77	-5.09	-3.44	-2.13	-2.73	-6.37	-13.4	-12.3	-10.2	-10.9	-16.4	-11.6	-8.68	-9.39	-8.12	-3.82	-1.88	-1.72	-2.38	-3.23	-5.62	
θ (180°)		-14.1	-19.4	-29	-17.8	-16.5	-20.1	-17.1	-10.1	-6.31	-4.81	-5.11	-7.98	-14	-23.6	-23.9	-17.3	-12.1	-8.9	-7.09	-6.68	-6.7	-7.08	-8.58	-10.4	-14.1	

Ant.	No.4																									
Freq. (MHz)	5350																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
dB	φ (0°)	[2.34]	2.24	1.51	0.33	-2.14	-6.64	-16.5	-13.3	-5.18	-1.46	0.62	1.75	2.2	2.07	1.64	0.53	-1.98	-5.64	-13.8	-12.9	-5.19	-1.42	0.49	1.68	2.34
θ (0°)		0.56	1.03	1.03	0.26	-1.63	-4.74	-9.98	-11.7	-6.28	-2.23	0.22	1.47	1.5	0.62	-0.72	-1.98	-4.14	-8.46	-21.7	-11.2	-4.27	-1.96	-1.07	-0.5	0.56
θ (15°)		-2.43	-3.51	-3.29	-1.81	-1.57	-3.85	-9.28	-13.9	-8.26	-5.03	-2.95	-0.75	0.11	-0.37	-0.88	-1.5	-3.51	-7.41	-12.5	-12.1	-11.5	-4.48	-1.86	-0.77	-2.43
θ (30°)		-4.9	-7.02	-9.35	-7.83	-4.51	-5.05	-9.32	-12.6	-9.75	-7.13	-2.35	-0.62	-0.83	-3.37	-5.93	-15.1	-12.7	-11.4	-9.91	-7.31	-10.7	-13.4	-9.42	-8.16	-4.9
θ (45°)		-10.9	-7.09	-4.75	-24.3	-16.7	-10.1	-10.5	-10.4	-11.1	-6.62	-5.58	-2.44	-4.01	-7.81	-5.92	-9.05	-20.1	-15.9	-16.9	-7.76	-12.6	-10.6	-7.14	-8.04	-10.9
θ (60°)		-17.2	-20.1	-9.56	-12.8	-17.8	-14.2	-14.9	-12.2	-12	-5.11	-5.73	-5.95	-4.8	-5.61	-5.28	-15.3	-12.8	-12.3	-15.5	-11.4	-13	-42.4	-8.07	-10.4	-17.2
θ (75°)		-8.46	-12.7	-13.1	-6.2	-12.4	-11.4	-10.7	-12.5	-7.97	-4.31	-9.07	-8.17	-9.89	-16	-14.3	-27.8	-11.4	-15.3	-21.9	-16.3	-10.1	-16.4	-4.33	-12.3	-8.46
θ (90°)		-8.21	-16.9	-10	-9.79	-8.73	-12.7	-16.4	-10.8	-13.3	-13.5	-14.7	-18.3	-19.1	-12.6	-19	-17.7	-20.7	-20	-31.9	-21.1	-7.87	-10.1	-5.02	-5.95	-8.21
θ (105°)		-1.83	-1.37	-7.6	-5.29	-14.5	-15.5	-14.1	-26.5	-10.4	-12.1	-8.86	-11.2	-13.5	-7.5	-11.5	-10.1	-33.3	-20	-25.8	-12.9	-7.76	-4.02	-3.58	-5.02	-1.83
θ (120°)		-2.22	0.81	-3.21	-4.81	-3.52	-5.58	-12.1	-19.6	-13.3	-10.3	-8.21	-6.64	-7.19	-6.87	-7.94	-13.6	-9.89	-17.9	-19.4	-18.5	-5.79	-3.44	-3.14	-3.45	-2.22
θ (135°)		-2.98	-5.25	-2.81	-2.22	-3.63	-5.15	-6.67	-9.49	-8.27	-6.48	-6.74	-11.3	-5.3	-6.26	-6.98	-5.95	-9.62	-20.8	-21.5	-17.5	-5.32	-3.88	-3.81	-0.6	-2.98
θ (150°)		-0.5	-0.91	-1.83	-2.94	-3.58	-4.67	-6.32	-11.6	-13.9	-10.4	-10.6	-10.3	-11.2	-12.7	-8.08	-6.68	-8.73	-13.5	-20	-20.4	-11.3	-6.86	-3.77	-1.73	-0.5
θ (165°)		-8.66	-8.02	-7.82	-7.77	-9.72	-11.8	-14.1	-17.8	-20.8	-12.6	-8.46	-6.6	-6.37	-7.23	-7.73	-7.25	-7.94	-9.5	-12.5	-16.9	-23.2	-19.1	-14	-11.2	-8.66
θ (180°)																										
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB	φ (0°)	-21.5	-14.3	-5.89	-1.76	0.27	1.54	2.13	2.11	1.48	0.14	-2.38	-6.62	-17.1	-13.5	-5.57	-1.82	0.45	1.74	2.32	2.06	1.62	0.18	-2.17	-6.48	-21.5
θ (0°)		-26.6	-10.9	-4.77	-1.86	-0.09	0.73	0.45	0.22	-0.07	-1.5	-4.22	-8.36	-19	-15.8	-7.66	-3.96	-1.64	-0.07	0.92	1.16	0.3	-1.43	-3.67	-6.82	-26.6
θ (15°)		-17.9	-13.7	-5.13	-1.66	0.08	1.26	1.78	1.67	0.91	-0.4	-3.13	-6.68	-12.1	-11.9	-6.36	-3.87	-1.97	-0.61	-0.35	-0.79	-1.8	-3.81	-6.11	-10.4	-17.9
θ (30°)		-16	-10.6	-2.34	-0.05	0.51	1.99	2.83	2.14	1.64	-0.47	-3.81	-5.71	-8.37	-10.1	-7.56	-4.2	-6.52	-8.77	-8.13	-8.67	-3.32	-4.81	-20.9	-25.2	-16
θ (45°)		-14.8	-10.2	-2.67	1.5	0.36	0.56	0.9	0.72	0.35	0.96	-2.53	-5.07	-7.89	-9.59	-1.92	-0.06	-0.84	0.43	-2.24	-1.41	-11.9	-5.05	-3.68	-11.8	-14.8
θ (60°)		-9.53	-22	-10.1	-6.13	-2.48	-0.16	-0.54	0.06	-2.48	-1.96	-6.37	-9.02	-10.4	-3.15	0.65	1.39	[3.45]	1.11	-5.27	-1.55	-15	-13.8	-2.23	-4.72	-9.53
θ (75°)		-9.13	-12	-3.4	-4.93	-1.28	1.07	1.33	1.19	-0.81	-2.07	-4.2	-14.8	-14.2	-7.64	-2.42	-0.76	0.65	1.17	-2.19	-1.8	-7.61	-6.51	-20.7	-15.2	-9.13
θ (90°)		-11.8	-22.3	-4.09	-1.58	0.44	1.71	2.32	-0.19	-1.45	-4.71	-7.8	-21.1	-17.4	-7.6	-6.15	-9.39	-3.29	-2.25	-8.25	-3.59	-2.96	-9.5	-3.64	-10.4	-11.8
θ (105°)		-9.69	-6.68	-9.89	-1.9	1.78	3.34	1.91	-1.25	-1.94	-3.21	-6.63	-15	-9.85	-11.2	-11.8	-4.42	-13.6	-3.1	-8.6	-5.37	-2.67	-4.54	-8.26	-15	-9.69
θ (120°)		-14.6	-2.88	-0.68	0.16	0.47	-1.78	-4.17	-1.88	-0.74	-5.41	-6.94	-8.55	-29.4	-16.2	-8.08	-11.4	-7.57	-5.52	-12.3	-4.54	-2.73	-3.02	-8.75	-11.7	-14.6
θ (135°)		-11	-11.9	-4.82	-2.59	-1.65	-0.19	-0.04	-3.39	-6.16	-1.72	-6.19	-8.92	-6.88	-18.3	-20.1	-14.9	-5.34	-2.96	-6.24	-11.1	-7.08	-7.23	-7.38	-9.02	-11
θ (150°)		-5.62	-9.17	-10.6	-8.06	-5.88	-4.95	-3.65	-2.13	-1.85	-4.48	-13.1	-13.1	-10.7	-12.1	-17.8	-14	-10.1	-9.27	-6.58	-2.56	-0.57	-0.45	-1.39	-2.6	-5.62
θ (165°)		-14.5	-19.1	-36.5	-17.9	-16.2	-19.7	-23.1	-13	-7.03	-4.23	-4.28	-7.34	-13	-21.6	-25.7	-23	-14.8	-10.6	-8.04	-6.58	-6.75	-7.45	-8.33	-10.3	-14.5
θ (180°)																										



Ant.	No.4																								
Freq. (MHz)	5500																								
Polarity	Theta																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	2.69	2.58	1.83	0.35	-1.78	-5.44	-13.8	-14	-5.55	-1.57	0.73	2.07	2.77	[2.81]	2.07	0.61	-1.52	-5.37	-14.6	-14.4	-5.79	-1.76	0.7	1.93
θ (15°)	1.11	1.08	0.31	-0.96	-2.81	-6.38	-14.2	-15.8	-9.7	-6.64	-3.02	-0.1	1.36	1.52	0.34	-2.12	-5.33	-10.4	-21.2	-12.5	-6.99	-3.97	-1.26	0.22	1.11
θ (30°)	-1.68	-1.35	-2.9	-2.65	-1.13	-2.53	-8.85	-17.4	-9.71	-8.08	-7.16	-2.02	0.62	0.51	-2.17	-4.08	-4.42	-7.08	-9.43	-10.1	-14.3	-7.32	-2.77	-1.82	-1.68
θ (45°)	-5.68	-6.02	-4.84	-6.39	-4.38	-5.61	-10.1	-12.5	-9.85	-8.88	-8.49	-2.3	0.62	-2.96	-4.37	-10.1	-11.6	-10.3	-11.9	-9.62	-12	-6.64	-7.77	-5.83	-5.68
θ (60°)	-13.4	-7.04	-7.16	-10.1	-12.4	-13.2	-17.9	-15.6	-14.4	-7.6	-7.72	-3.56	-1.34	-5.87	-8.55	-11.1	-20.4	-12.1	-14.2	-7.69	-27.7	-3.81	-2.92	-6.67	-13.4
θ (75°)	-11.2	-19.9	-11	-11	-23.4	-25.8	-24.2	-24.7	-14	-6.87	-7.26	-2.81	-3.63	-7.43	-4.52	-11.9	-14.5	-12.2	-15.5	-11.9	-8.38	-15.3	-6.76	-11	-11.2
θ (90°)	-8.91	-11	-15.8	-7.6	-13.7	-21.5	-15.2	-19.3	-13.4	-6.63	-9.19	-7.68	-9.08	-15	-13	-17.8	-13	-13.2	-15.9	-11.8	-8.34	-15.2	-5.87	-16	-8.91
θ (105°)	-6.2	-6.58	-6.51	-10.3	-11.4	-14.5	-18.2	-12.8	-10.5	-13.1	-11.8	-12.9	-19	-16.7	-15.7	-13.2	-17	-14.6	-21.4	-11.5	-5.87	-6.89	-5.06	-5.64	-6.2
θ (120°)	-1.63	-3.55	-3.16	-3.45	-12.2	-20.2	-13.7	-13.4	-15.1	-9.82	-8.59	-8.66	-9.72	-8.46	-10.6	-6.87	-21	-15.1	-12.7	-9.48	-5.64	-3.48	-3.95	-2.94	-1.63
θ (135°)	0.45	0.45	-1.23	-3.11	-4.89	-6.79	-11.2	-16	-18.9	-9.89	-8.95	-6.85	-7.53	-7.53	-10	-11.7	-10.7	-15.8	-15.7	-12.4	-3.35	-3.47	-2.44	-1.65	0.45
θ (150°)	-4.02	-4	-2.88	-5.4	-7.29	-7.2	-5.75	-6.76	-7.53	-4.71	-4.51	-8.94	-7.23	-4.7	-8.08	-7.26	-10.5	-21.5	-14	-21.8	-6.68	-5.97	-2.26	0.13	-4.02
θ (165°)	0.84	1.09	0.98	0.29	-0.82	-2.35	-4.28	-8	-15.7	-12.9	-10.3	-9.92	-9.91	-9.29	-8.6	-8.08	-9.51	-12.6	-14.5	-11.6	-7.09	-4.3	-2.21	-0.91	0.84
θ (180°)	-5.09	-3.97	-3.16	-3.63	-4.52	-6.15	-9.01	-15	-28.7	-11.2	-6.51	-4.52	-4.29	-4.72	-4.39	-3.67	-4.15	-5.06	-7.69	-12.2	-21.3	-20.8	-12.8	-8.69	-5.09
Polarity	Phi																								
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)
	θ (0°)	-30.6	-12.2	-4.89	-1.52	0.66	2.11	2.43	2.47	1.78	0.18	-2.39	-6.59	-16.7	-14.2	-5.83	-1.72	0.41	1.45	2.16	1.88	1.26	-0.22	-2.74	-7.05
θ (15°)	-18.5	-12.2	-7.6	-5.37	-2.84	-0.5	0.84	0.3	-2.12	-5.48	-8.33	-12.8	-23.6	-13.6	-6.86	-3.33	-1.31	-0.13	0.23	0.18	-0.34	-0.93	-3.13	-6.96	-18.5
θ (30°)	-29.8	-10.4	-5.55	-5.8	-2.34	1.16	2.06	1.39	0.22	-2.28	-4.92	-9.61	-14.7	-10.6	-5.33	-3.87	-2.73	-1.51	-1.1	-0.75	0.05	-0.85	-2.35	-9.02	-29.8
θ (45°)	-12.1	-9.99	-1.75	-0.91	0.27	1.81	2.28	2.39	2.41	0.41	-5.24	-9.39	-9.7	-6.92	-12.6	-4.67	-4.87	-7.05	-5.14	-3.09	-2.37	-10.8	-6.56	-13.7	-12.1
θ (60°)	-19.5	-10.1	-1.1	0.36	-1.21	1.02	1.78	1.3	0.82	1.74	-1.38	-5.28	-8.67	-6.19	-4.58	1.09	-0.16	-0.47	-5.46	-6.34	-9.94	-2.4	-6.32	-10.8	-19.5
θ (75°)	-13	-11.3	-2.79	-4.32	-0.74	1.36	1.57	0.34	0.52	0.1	-4.17	-8.72	-7.29	-3.22	1.32	1.14	[3.50]	1.13	-4.41	-1.02	-14.1	-10.1	-1.43	-7.39	-13
θ (90°)	-13.3	-8.73	-8.8	-5.31	-1.57	-0.46	-1.1	-0.73	-1.06	-1.03	-7.36	-10.8	-7.99	-5.02	-1.08	-1.19	1.12	0.71	-2.65	-1.43	-7.71	-4.98	-12.5	-9.06	-13.3
θ (105°)	-8.95	-7.35	-1.11	0.15	2.69	2.47	2.62	1.46	-1.66	-2.44	-6.48	-15.9	-10.3	-6.52	-7.39	-7.44	-4.29	-1.41	-6.4	-3.3	-2.3	-7.51	-4.77	-12.2	-8.95
θ (120°)	-10.9	-12.1	-7.39	-3.85	0.25	1.39	0.44	-2.78	-4.95	-3.84	-9.68	-13.5	-8.93	-10.5	-11.9	-3.35	-17.4	-2.75	-6.43	-5.02	-1.91	-4.2	-7.28	-7.76	-10.9
θ (135°)	-6.74	-2.12	-2.65	-0.93	-1.53	-1.83	-3.1	-3.84	-1.27	-5.39	-6.78	-8.25	-29.8	-21.2	-10.4	-11.4	-9.82	-7.41	-13	-2.67	-1.13	-2.67	-12.7	-17.9	-6.74
θ (150°)	-26	-11.6	-4.03	-2.4	-0.13	1.16	1.31	-2	-6.77	-1.23	-3.14	-9.95	-5.74	-14.5	-12.5	-28	-6.91	-3	-7.5	-14.6	-9.02	-8.17	-11.1	-22.6	-26
θ (165°)	-6.22	-9.28	-10.3	-6.79	-4.24	-3.43	-3.26	-2.44	-1.45	-2.88	-8.08	-10.2	-8.65	-11.2	-20.9	-19.6	-13.1	-10.4	-6.57	-2.69	-1.53	-2.46	-4.02	-5.14	-6.22
θ (180°)	-8.87	-12.8	-29.3	-18.5	-12	-10.6	-11.3	-7.93	-4.12	-2.33	-2.33	-4.38	-8.96	-15.3	-23.2	-25.8	-13.5	-8.91	-5.9	-4.49	-3.76	-3.98	-4.55	-6.01	-8.87



Ant.	No.4																								
Freq. (MHz)	5650																								
Polarity	Theta																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	[1.70]	1.61	0.99	-0.4	-3.19	-7.74	-18.3	-12.7	-5.51	-1.94	0.15	1.29	1.66	1.51	1.04	-0.15	-2.54	-6.4	-15.5	-13.5	-5.48	-2.09	0.14	1.36
θ (15°)	1.34	1.1	0.75	-0.09	-2.17	-5.97	-16	-13.4	-6.3	-3.54	-1.65	-0.31	0.86	1.36	1.09	-0.67	-4.02	-10	-26	-11.5	-6.5	-2.8	-0.54	0.79	1.34
θ (30°)	0	-0.37	-0.29	0.35	0.13	-2.29	-9.12	-17.3	-8.34	-4.8	-3.8	-4.22	-2.27	-0.31	-1.21	-4.43	-7.13	-8.48	-12.5	-19.6	-14.1	-5.38	-4.01	-3.07	0
θ (45°)	-7.37	-4.93	-3.53	-4.01	-5.36	-6.86	-10.9	-14.5	-9.46	-3.89	-5.53	-4.67	-1.45	-0.63	-6.23	-6.78	-11.2	-16.9	-21.3	-10.3	-12.2	-9.91	-14	-10.4	-7.37
θ (60°)	-16.4	-7.98	-13.4	-7.71	-11.9	-13.6	-12	-11.7	-13.1	-7.46	-3.62	-5.41	-2.41	-3.08	-9.26	-14.7	-25.5	-17.3	-20.5	-8.96	-20.7	-4.67	-6.98	-17.2	-16.4
θ (75°)	-14.3	-15.5	-11.8	-13.7	-29.5	-21.2	-21	-21.7	-13.4	-7.67	-4.85	-3.76	-4.65	-6.79	-5.04	-13.8	-15.6	-14	-17.4	-13.9	-9.43	-20	-10.9	-20	-14.3
θ (90°)	-8.86	-9.72	-14.5	-9.21	-8.97	-17.3	-11.5	-21.8	-11.9	-9.4	-6.41	-11.1	-9.34	-13.9	-9.45	-16.7	-27.3	-13.9	-18.6	-14.1	-12.4	-20.6	-11.9	-13.7	-8.86
θ (105°)	-9.42	-7.68	-18.3	-8.04	-6.33	-13.2	-18.2	-26.7	-13.1	-16.9	-16.3	-9.69	-19.6	-19.6	-15.5	-15.8	-15.6	-18	-20.9	-13.7	-7.51	-6.98	-7.22	-6.21	-9.42
θ (120°)	-0.97	-2.44	-1.76	-6.22	-15.3	-26.7	-19.2	-13.2	-11.2	-11.9	-9.98	-6.33	-9.99	-15.3	-13.4	-8.56	-18.1	-13.6	-13	-9.68	-6.9	-3.96	-4.6	-1.7	-0.97
θ (135°)	-1.45	-1.08	-2.01	-7.61	-10.5	-11	-18.3	-12.9	-13.9	-12.5	-9.74	-7.11	-9.21	-10.2	-9.71	-12.8	-12.5	-18	-15.3	-13.4	-4.63	-5.17	-2.7	-1.04	-1.45
θ (150°)	-3.63	-4.35	-7.25	-8.47	-8.58	-14.5	-9.73	-7.58	-7.99	-6.47	-3.79	-6.43	-8.69	-6.7	-8.38	-9.23	-10.2	-35.3	-15.6	-20.9	-8.1	-5.8	-1.97	-1.13	-3.63
θ (165°)	1.03	1	0.19	-0.65	-2.14	-3.22	-4.71	-8.09	-13.9	-12	-9.63	-11.3	-11.7	-8.7	-7.31	-8	-10.7	-15.5	-19.3	-13.6	-7.97	-4.71	-1.88	-0.27	1.03
θ (180°)	-4.1	-3.41	-3.08	-3.29	-4.49	-6	-8.81	-15.5	-24.5	-10.6	-6.11	-4.08	-3.45	-3.09	-3.17	-2.99	-3.58	-5.17	-8.08	-13.4	-27	-15.3	-9.63	-6.44	-4.1
Polarity	Phi																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
	θ (0°)	-43.8	-12.8	-5.39	-2.12	-0.19	0.62	1.18	1.05	0.37	-0.98	-3.56	-8.38	-28.6	-10.5	-5.11	-1.82	0.27	1.37	1.83	1.64	0.73	-0.98	-3.99	-8.99
θ (15°)	-22.4	-10.5	-5.86	-1.57	0.86	1.94	2.01	1.88	1.62	-0.02	-4.26	-11.9	-33.8	-11.4	-4.77	-1.93	-0.23	0.35	0.52	0.24	-0.28	-1.72	-4.83	-9.35	-22.4
θ (30°)	-14.8	-9.8	-7.86	-1.38	1.36	3.48	[4.60]	3.87	2.27	0.51	-2.66	-8.8	-15.2	-13.7	-7.37	-5.45	-5.11	-3.05	-1.43	-0.54	-1.17	-2.19	-4.94	-10.2	-14.8
θ (45°)	-12.2	-15.3	-9.49	-2.45	0.05	1.51	1.98	1.73	1.79	1.47	-1.92	-7.73	-10.4	-5.57	-8.89	-7.8	-7.01	-7.18	-4.09	-3.69	-3.52	-5.76	-4.52	-14.8	-12.2
θ (60°)	-15	-9.5	-3.76	-6.17	-2.3	0.65	1.25	0.79	1.03	0.99	-0.77	-5.78	-7.77	-5.31	-5.55	-0.93	-0.23	-1.19	-6.43	-6.07	-5.16	-2.65	-5.65	-5.33	-15
θ (75°)	-23.3	-11.4	-3.67	-6.26	-1.55	0.28	0.85	0.66	-0.01	-0.19	-3.64	-14	-7.81	-4.65	0.22	1.15	3.74	0.96	-4.81	-1.93	-13.7	-8.79	-5.56	-11.4	-23.3
θ (90°)	-16.7	-6.04	-8.69	-3.67	-3.25	-0.43	0.78	-0.62	-0.03	-0.58	-3.05	-13.8	-14.4	-3.72	-1.86	-2.58	1.89	1.29	-4.12	-0.9	-6.06	-5.09	-6.94	-8.87	-16.7
θ (105°)	-8.28	-14.6	-6.3	-3.88	-2.3	-1.55	-0.25	1.37	-4.57	-1.7	-17.5	-17.3	-8.9	-5.9	-6.85	-5.32	-5.76	-0.59	-4.97	-2.85	-0.76	-3.75	-6.03	-23.3	-8.28
θ (120°)	-11.5	-9.52	-9.01	-2.65	0.77	1.89	2.31	1	-3.29	-3.17	-8.53	-13.6	-10.7	-15.4	-14	-4.1	-13.8	-5.19	-9.53	-5.02	-2.79	-5.23	-4.92	-7.22	-11.5
θ (135°)	-7	-5.17	-4.13	-1.51	-1.69	-0.13	-0.51	-2.77	-2.29	-4.62	-9.01	-8	-16.6	-27.8	-11.8	-13.4	-9.56	-5.83	-12.3	-2.49	-1.89	-4.45	-10.2	-12.2	-7
θ (150°)	-15.8	-10	-5.02	-2.22	-0.43	0.81	1.27	-0.62	-9.1	-3.89	-3.67	-14.8	-8.9	-14.5	-15.1	-18.3	-7.92	-3.83	-9.28	-12.7	-7.53	-7.08	-7.79	-11.9	-15.8
θ (165°)	-6.25	-9.57	-12.1	-8.5	-5.56	-4.63	-4.47	-3.85	-2.78	-4.13	-10.4	-13.3	-9	-11.2	-21.6	-19.2	-12	-10.2	-6.64	-3.57	-2.63	-2.97	-3.38	-4.11	-6.25
θ (180°)	-9.75	-12.7	-22.8	-16.5	-12.7	-11.9	-10.8	-5.67	-2.42	-1.09	-1.47	-4.05	-8.96	-15.1	-25.1	-20.3	-12.1	-7.38	-4.71	-3.52	-3.18	-3.42	-4.07	-5.47	-9.75



Ant.	No.4																									
Freq. (MHz)	5850																									
Polarity	Theta																									
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)	
θ (0°)	1.77	1.4	0.55	-1.14	-3.8	-8.13	-19.1	-11.8	-5.21	-1.96	0.03	1.26	1.88	1.9	0.94	-0.99	-3.73	-8.77	-19.9	-11.4	-4.85	-1.71	0.2	1.38	1.77	
θ (15°)	2.03	[2.18]	1.46	0.19	-1.5	-5.13	-14.5	-14.7	-6.57	-4.29	-2.51	-0.61	0.15	0.54	0.67	-1.12	-4.47	-11.2	-25.8	-9.66	-4.63	-1.54	0.11	1.01	2.03	
θ (30°)	0.19	0.61	0.53	0.13	-0.98	-4.29	-12	-17.4	-7.17	-3.58	-2.08	-1.98	-1.72	-0.11	-1	-2.84	-5.84	-9.98	-20.3	-16.2	-7.61	-3.5	-2.88	-1.3	0.19	
θ (45°)	-3.12	-2.38	-0.29	-1.48	-3.2	-4	-8.93	-27.2	-9.54	-6.67	-1.87	-1.32	-1.28	-1.17	-5.07	-8.05	-9.09	-14.2	-14.5	-10.4	-11.1	-23.9	-8.91	-7.73	-3.12	
θ (60°)	-20.3	-13.5	-12	-6.27	-10.4	-12.1	-12.6	-14.8	-11	-10	-4.28	-2.57	-4.4	-3.7	-8.44	-13.3	-26.8	-14.3	-13.4	-8.21	-18.4	-5.64	-13.7	-14.3	-20.3	
θ (75°)	-13.9	-20.1	-13.1	-28.9	-22.7	-21.4	-16.2	-21.9	-13	-10	-4.83	-5.35	-3.59	-5.67	-5.59	-11.3	-13.6	-16.9	-12.8	-12.6	-11.4	-17.9	-15.4	-18.4	-13.9	
θ (90°)	-5.64	-9.07	-10.1	-8.59	-8.8	-11.6	-11.2	-17.2	-16.1	-14.1	-7.31	-11.1	-10.9	-13.8	-8.68	-12.3	-14.1	-11.8	-15.7	-13.4	-13.8	-41.8	-15.4	-14.5	-5.64	
θ (105°)	-17.1	-8.8	-11	-6.97	-6.06	-10.2	-11.6	-23.2	-17	-13.6	-24	-11	-19.1	-18.6	-22.1	-16.3	-13.8	-15.7	-18.2	-11.5	-7.32	-14.4	-6.54	-6.62	-17.1	
θ (120°)	-2.37	-4.62	-4.97	-17.7	-22.3	-17.6	-18	-17.1	-12.7	-11.9	-14.2	-7.39	-13.6	-12.7	-11.9	-12.8	-16.1	-13.5	-13.5	-11.7	-7.99	-6.01	-3.54	-2.98	-2.37	
θ (135°)	-3.28	-1.02	-2.47	-7.19	-9.82	-10.5	-12.1	-23.6	-9.58	-13.3	-7.19	-9.98	-6.62	-6.58	-11.3	-8.24	-16.1	-13.5	-18.3	-17.4	-14.6	-6.69	-4.17	-1.6	-1.67	-3.28
θ (150°)	-5.76	-6.9	-6.78	-4	-4.4	-11	-21.1	-11.5	-7.72	-7.43	-5.67	-5.57	-5.65	-7.14	-7.9	-7.5	-10	-24.1	-17.3	-14.2	-8.15	-6.29	-2.33	-2.45	-5.76	
θ (165°)	0.17	0.07	-0.28	-1.54	-3.59	-6.04	-7.57	-10.1	-14.9	-19.9	-12.2	-8.77	-10.7	-11.1	-6.48	-6.07	-8.03	-14	-20.9	-16.4	-9.9	-5.23	-2.09	-0.51	0.17	
θ (180°)	-6.6	-5.73	-5.58	-5.32	-6.36	-7.36	-9.03	-12.6	-28.5	-15.6	-8.79	-6.18	-5.73	-5.84	-5.39	-5.28	-5.27	-6.34	-8.31	-12.2	-21.5	-22.6	-13.2	-9.36	-6.6	
Polarity	Phi																									
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)	
θ (0°)	-25.6	-11.3	-4.79	-2.07	0.04	1.19	1.71	1.37	0.53	-1.16	-3.6	-8.18	-21.5	-10.7	-4.23	-1.35	0.33	1.32	1.56	1.19	0.21	-1.47	-4.35	-10.2	-25.6	
θ (15°)	-15.1	-7.94	-3.85	-1.17	0.53	2.01	2.98	2.94	1.45	-1.89	-5.21	-11.6	-18.1	-9.35	-4.66	-1.31	0.62	1.57	1.97	1.52	0.31	-1.69	-4.79	-8.31	-15.1	
θ (30°)	-24	-16.2	-3.66	0.58	2.45	3.11	2.49	2.36	2.41	0.68	-2.71	-7.99	-19.9	-13.1	-5.92	-2.94	-2.27	-1.3	-0.58	-0.94	-0.9	-2.92	-5.69	-16.1	-24	
θ (45°)	-12.9	-8.7	-2.4	0.38	1.42	2.44	2.53	2.25	1.56	1.69	-1.44	-9.18	-14.6	-6.21	-6.03	-6.93	-5.33	-4.99	-4.23	-5.65	-5.03	-5.21	-12	-13.3	-12.9	
θ (60°)	-7.55	-4.56	-7.83	-7.14	-2	0.24	1.05	1.35	0.52	1.31	0.81	-6.55	-10.5	-5.7	-6.37	-2.25	-1.58	-1.29	-6.73	-5	-3.91	-4.05	-3.24	-6.99	-7.55	
θ (75°)	-14.8	-9.51	-6.19	-3.91	-2.75	-0.04	-0.02	-0.23	0.02	-0.59	-1.93	-9.18	-8.19	-6.6	-0.48	-0.21	[3.72]	1.22	-3.97	-1.95	-10.2	-4.22	-3.27	-6.88	-14.8	
θ (90°)	-15.6	-13.5	-3.41	-4.39	-2.92	0.35	2.29	1.18	0.4	-1.23	-1.08	-15.2	-16.2	-8.71	-3.56	-2.58	2.18	2.43	-3	0.18	-8.11	-9.21	-6.16	-19.2	-15.6	
θ (105°)	-9.56	-9.28	-11.1	-6.88	-3.91	0.54	0.71	0.5	-0.64	-3.44	-7.32	-12.6	-13.7	-10.8	-7.63	-4.02	-9.01	-0.9	-3.32	-3.11	-0.54	-2.86	-9.38	-14.2	-9.56	
θ (120°)	-13.1	-13	-7.04	-2.01	-0.9	-0.24	0.74	1.32	-3.03	-3.89	-6.42	-19.9	-9.02	-25.1	-17.9	-4.99	-14	-3.91	-12.7	-4	-4.35	-6.8	-3.53	-9.13	-13.1	
θ (135°)	-6.74	-6.72	-4.55	-3.42	-0.33	2.25	1.68	-0.19	-0.97	-2.94	-6.79	-9.42	-10.3	-29.7	-17.5	-20.6	-8.69	-6.44	-13.1	-2.85	-3.26	-5.14	-9.93	-20.1	-6.74	
θ (150°)	-11.4	-6.28	-3.36	-1.86	-0.64	-0.38	0.71	0.81	-3.76	-6.42	-2.89	-9.06	-14.5	-15.2	-23.9	-22.6	-8.47	-4.58	-9.84	-24.2	-11	-7.25	-5.79	-8.94	-11.4	
θ (165°)	-7.46	-9.98	-11.1	-7.9	-5.24	-4.75	-5.65	-6.14	-5.6	-6.02	-10.6	-18.7	-12.5	-11.9	-19.8	-18.5	-10.8	-9.05	-5.93	-3.31	-2.32	-2.6	-3.36	-4.18	-7.46	
θ (180°)	-9.14	-11.4	-17.2	-36.5	-18.4	-15.7	-15.5	-8.41	-3.68	-1.78	-1.9	-4.31	-8.33	-13.7	-20.5	-42.4	-15.1	-9.8	-7.29	-6.45	-6.19	-6.17	-6.18	-6.84	-9.14	

Directional Gain@1SS:

1SS																										
Freq. (MHz)	2400																									
Polarity	Theta																									
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)	
θ (0°)	-17.07	-12.97	-8.88	-6.31	-4.82	-4.09	-4.03	-4.45	-5.53	-7.49	-9.59	-13.87	-15.44	-10.75	-7.26	-5.18	-3.86	-3.14	-3.15	-3.76	-5.04	-7.39	-11.14	-14.45	-17.07	
θ (15°)	-7.52	-5.3	-3.71	-2.92	-3.2	-3.07	-3.41	-4.22	-5.17	-5.97	-6.63	-7.04	-6.94	-6.38	-5.76	-5.13	-5.27	-5.66	-5.78	-5.88	-6.41	-9.03	-13.22	-12.84	-7.52	
θ (30°)	-3.95	-1.9	-0.53	-0.03	-0.41	-1.76	-3.18	-4.16	-4.49	-4.14	-3.02	-1.85	-0.96	-0.38	-0.19	-0.59	-1.63	-2.82	-4.2	-6.01	-7.27	-7.7	-7.82	-8.08	-3.95	
θ (45°)	-2.6	0.35	1.3	0.98	-0.5	-1.87	-1.99	-1.68	-2.74	-5.14	-5.72	-2.71	-0.1	1.31	1.43	0.77	-0.08	-0.5	-1.36	-3.78	-6.75	-9.21	-9.35	-9.14	-2.6	
θ (60°)	0.82	3.33	3.91	2.76	0.87	-0.03	2.1	3.27	3.27	2.2	0.23	-1.25	0.83	3.08	3.5	3.17	3.02	2.54	1.01	-1.03	-3.66	-6.44	-10.1	-8.54	0.82	
θ (75°)	2.22	4.48	3.93	2.71	1.96	3.11	4.69	5.38	5.1	3.51	1.04	0.41	2.24	4.45	5.17	3.57	2.84	3.26	2.03	-1.07	-3.81	-5.16	-5.06	-3.97	2.22	
θ (90°)	2.59	4.3	3.94	3.82	3.16	2.93	4.48	5.29	[5.39]	4.9	2.94	-0.55	0.59	2.55	3.35	3.79	2.89	0.45	-0.75	-0.8	-2.97	-3.97	-3.09	-1.04	2.59	
θ (105°)	1.46	3.56	3.81	3.6	2.23	1.85	3.12	3.53	3.19	2.31	1.17	1.02	1.84	3.3	4.04	2.19	0.18	-0.82	-2.72	-3.97	-4.7	-4.92	-3.69	-3.07	1.46	
θ (120°)	1.08	2.04	1.48	0.95	-0.08	-1.38	0.79	2.21	2.33	1.19	-1.36	-2.62	-0.4	1.27	2.47	3.27	2.72	0.16	-3.7	-6.02	-4.48	-3.46	-3.03	-2.32	1.08	
θ (135°)	2.66	3.85	3.86	3.12	1.03	-0.84	0.49	0.55	-0.84	-2.88	-3.64	-2.9	-1.68	-0.38	0.22	-0.84	-3.34	-5.51	-6.02	-7.02	-6.3	-7.14	-7.76	-3.09	2.66	
θ (150°)	4.21	4.71	4.37	3.13	1.53	1.5	2.66	2.53	0.51	-2.21	0.23	1.43	0.9	-0.24	-0.36	-0.41	-1.62	-3.99	-5.53	-8.48	-12.05	-9.64	-4.41	0.25	4.21	
θ (165°)	3.5	3.73	3.29	2.19	0.81	-1.35	-1	-1.45	-2.79	-4.4	-3.58	-2.76	-3.25	-4.95	-5	-3.86	-3.48	-3.8	-4.04	-4	-3.26	-1.9	-0.3	0.85	3.5	
θ (180°)	-6.38	-5.75	-4.92	-4.48	-4.52	-5.21	-6.69	-8.89	-10.06	-8.35	-6.69	-5.47	-4.85	-4.92	-6.07	-7.12	-8.51	-9.74	-11.2	-13.41	-11.07	-8.68	-7.48	-6.91	-6.38	
Polarity	Phi																									
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)	
θ (0°)	-3.42	-4.01	-5.37	-7.63	-11.17	-16.41	-17.71	-12.88	-8.68	-6.54	-4.84	-4.1	-4.18	-5.18	-7.32	-11.35	-19.21	-17.63	-11.99	-8.57	-5.93	-4.13	-3.27	-3.33	-3.42	
θ (15°)	-6.09	-8.04	-11.5	-16.04	-14.85	-15.64	-10.14	-7.37	-5.82	-4.94	-4.32	-3.77	-3.39	-3.38	-4.14	-5.9	-9.46	-13.22	-10.52	-8.92	-8.5	-7.59	-5.37	-4.49	-6.09	
θ (30°)	-5.05	-6.26	-9.14	-11.11	-9.79	-8.29	-8.02	-7.57	-7.16	-6.53	-5.21	-3.55	-2.22	-1.68	-1.84	-2.81	-4.77	-7.72	-11.29	-10.76	-9.96	-9.71	-8.02	-4.72	-5.05	
θ (45°)	-0.23	-1.97	-6.2	-4.68	-3.76	-5.93	-6.18	-4.79	-4.66	-4.58	-3.77	-2.63	-1.44	-0.36	-0.35	-1.83	-5.49	-9.52	-8.55	-6.96	-6.48	-8.43	-4.94	-1.18	-0.23	
θ (60°)	0.93	-1.11	-5.07	-3.79	-4.46	-4.99	-6.68	-9.53	-10.19	-9.73	-8.46	-4.52	-1.47	-0.91	-1.18	-2.68	-4.91	-10	-12.01	-6.31	-4.11	-3.88	-2.93	0.98	0.93	
θ (75°)	0.58	-1.6	-4.14	-6.16	-8.85	-13.08	-13.71	-10.6	-7.41	-6.71	-6.86	-3.71	-2.02	-2.55	-3.11	-9.18	-16.27	-14.66	-5.88	-3.81	-1.05	0.48	-0.14	[1.44]	0.58	
θ (90°)	-2.38	-2.61	-1.83	-2.97	-5.55	-9.31	-12.35	-11.52	-9	-5.02	-4.72	-5.35	-2.24	-2.3	-3.98	-4.86	-8.11	-12.25	-6.21	-2.03	-1.03	-0.97	-2.58	-0.51	-2.38	
θ (105°)	-2.47	-4.25	-3.14	-2.43	-3.96	-9.01	-16.17	-6.32	-1.75	-0.01	-0.58	-3.4	-1.71	-3.88	-7.68	-9.26	-6.24	-7.29	-6.61	-4.32	-1.31	-2.19	-2.9	-1.92	-2.47	
θ (120°)	-1.09	-2.98	-4.39	-3.78	-3.99	-6.94	-11.63	-4.69	-0.28	1.22	-0.18	-5.32	-4.22	-4.04	-8.61	-9.49	-8.24	-7.66	-6.56	-2.49	-0.8	-1.8	-1.52	-0.76	-1.09	
θ (135°)	-2.64	-4.76	-4.93	-2.9	-2.02	-4.22	-9.95	-8.12	-3.29	-1.6	-2.58	-3.64	-0.11	-0.68	-9.46	-8.05	-6.3	-6.5	-5.49	-3.46	-3.36	-5.05	-4.05	-2.74	-2.64	
θ (150°)	-1.87	-2.59	-1.54	-0.51	-0.86	-3.26	-6.55	-8.14	-2.26	0.03	-0.06	-1.59	-1.58	-1.3	-4.48	-9.21	-5.35	-4.88	-7.2	-9.77	-6.97	-3.95	-1.91	-1.51	-1.87	
θ (165°)	-6.53	-5.48	-3.6	-2.84	-2.63	-3.94	-7.17	-12.68	-17.17	-19.43	-16.08	-10.35	-6.37	-4.34	-4.12	-6.92	-11.35	-11.19	-8.75	-7.6	-5.58	-4.32	-4.38	-5.49	-6.53	
θ (180°)	-7.11	-8.77	-10.13	-9.05	-8.27	-7.63	-7.27	-6.8	-6.42	-6.43	-6.9	-7.83	-9.33	-11.58	-11.74	-8.73	-7.48	-6.64	-5.83	-5.83	-6.86	-7.08	-7.92	-8.98	-7.11	

1SS																										
Freq (MHz)	2450																									
Polarity	Theta																									
	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
dB	φ (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°)	
θ (0°)	-9.83	-9.64	-9	-7.93	-6.8	-6.13	-5.99	-6.23	-6.93	-7.74	-8.36	-10.24	-12.56	-12.72	-10.69	-8.66	-6.84	-5.53	-4.95	-4.94	-5.51	-6.55	-8.32	-11.17	-9.83	
θ (15°)	-7.73	-5.51	-4.03	-3.41	-4.04	-4.53	-4.63	-4.92	-5.21	-5.57	-6.04	-6.67	-7.22	-7.65	-7.95	-8.04	-7.55	-6.88	-6.15	-5.9	-5.99	-7.24	-9.33	-9.65	-7.73	
θ (30°)	-2.48	-0.78	0.24	0.3	-0.38	-1.75	-3.01	-3.65	-3.75	-3.35	-2.82	-2.46	-1.85	-1.47	-1.64	-2.45	-3.39	-4.12	-5.24	-6.87	-7.85	-7.53	-5.52	-4.78	-2.48	
θ (45°)	-1.64	0.55	1.16	0.77	-0.77	-2.3	-2.23	-1.65	-2.34	-3.39	-2.42	-1.57	-0.63	0.44	0.51	-0.3	-1.06	-1.24	-2.02	-3.69	-4.62	-4.66	-4.69	-4.89	-1.64	
θ (60°)	-0.27	2.27	3.06	2.22	0.6	-1.53	0.99	2.63	2.77	1.41	-0.85	-1.88	-0.64	1.3	1.91	1.9	2.08	1.59	0.4	-0.54	-1.77	-3.07	-6.05	-7.17	-0.27	
θ (75°)	1.35	4.09	3.78	2.38	0.89	2.02	4.35	5.37	5.17	3.49	0.7	0.26	1.97	3.98	4.07	2.57	3.23	3.4	1.98	0.3	-0.45	-1.54	-3.98	-4.08	1.35	
θ (90°)	1.2	3.47	3.69	3.18	2.17	1.67	4.23	5.57	[5.84]	5.19	2.93	-0.19	0.75	2.5	3.01	3.18	2.59	1.52	1.69	1.16	-0.93	0.04	-0.62	-1.61	1.2	
θ (105°)	1.26	3.58	3.9	3.46	1.99	1.45	3.22	4.05	4.07	3.28	1.84	1.36	2.38	3.65	3.37	0.73	-0.98	-1.33	-1.61	-2.33	-3.03	-1.52	-1.71	-2.12	1.26	
θ (120°)	0.41	0.99	0.44	0.1	-0.59	-1.89	0.19	1.58	1.84	1.27	-0.22	-0.93	0.41	1.57	2.43	2.89	1.69	-1.92	-4.47	-3.6	-3.26	-1.38	-0.77	-1.1	0.41	
θ (135°)	1.96	2.97	3.13	2.62	0.43	-1.88	-0.37	-0.2	-1.6	-4.04	-4.82	-2.21	-0.84	-0.34	0.03	-0.81	-3.41	-7	-10.38	-7.57	-5.17	-6.02	-3.78	-1.99	1.96	
θ (150°)	3.97	4.18	3.57	2.3	0.79	0.04	1.04	1.07	-0.79	-1.9	-0.39	0.58	0.78	0.86	0.7	0.07	-1.37	-3.5	-6.12	-9.05	-8.02	-5.48	-2.33	0.99	3.97	
θ (165°)	2.59	2.96	2.74	1.95	1.13	-1.06	-2.5	-2.41	-3.11	-4.83	-6.69	-6.2	-6.28	-6.18	-4.41	-3.2	-3.02	-3.28	-3.77	-4.29	-4.27	-3.3	-1.69	-0.41	2.59	
θ (180°)	-4.38	-4	-3.84	-4.19	-5.05	-6.72	-10.05	-11.49	-9.18	-7.54	-6.08	-5.01	-4.47	-4.6	-5.57	-6.4	-8.19	-11.69	-16.3	-16.05	-11.29	-8.85	-7.54	-6.74	-4.38	
Polarity	Phi																									
dB	φ (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°)	
θ (0°)	-5	-5.25	-5.8	-6.74	-7.86	-8.82	-9.36	-9.1	-8.3	-7.83	-6.84	-5.72	-5.22	-5.32	-6	-7.24	-9.11	-11.82	-14.27	-13.32	-9.85	-7.29	-5.87	-5.15	-5	
θ (15°)	-6.88	-8.7	-12.16	-17.05	-15.83	-14.76	-11.47	-9.49	-8.11	-6.93	-5.92	-5.06	-4.22	-3.77	-4.01	-4.56	-6.56	-9.3	-13.19	-13.43	-11.78	-9.67	-6.51	-5.37	-6.88	
θ (30°)	-6.17	-8.23	-11.15	-11.22	-10.63	-7.91	-6.78	-6.5	-6.53	-6.5	-5.99	-4.78	-3.47	-2.58	-2.25	-2.75	-4.69	-7.82	-10.5	-9.87	-9.36	-10.46	-8.94	-5.29	-6.17	
θ (45°)	-2.16	-4.35	-6.85	-4.22	-3.62	-5.22	-6.24	-5.38	-5.35	-5.82	-5.97	-5.24	-3.64	-1.7	-1.18	-2.47	-5.61	-8.97	-9.89	-7.88	-7.69	-10.8	-7.22	-2.8	-2.16	
θ (60°)	-0.93	-2.92	-2.73	-0.76	-2.05	-3.82	-6	-8.47	-10.47	-9.83	-8.29	-5.65	-3.75	-2.53	-1.52	-1.8	-4.28	-10.8	-10.27	-5.09	-3.45	-3.7	-4.78	-1.37	-0.93	
θ (75°)	-1.28	-3.22	-2.12	-2.28	-4.72	-9.53	-11.11	-11.56	-7.36	-5.07	-6.7	-5.62	-3.93	-4.32	-4.04	-7.59	-12.87	-15.39	-6.9	-3.86	-0.6	0.09	-1.89	-0.04	-1.28	
θ (90°)	-2.8	-2.86	-1.25	-1.86	-4.29	-6.57	-9.01	-11.38	-11.16	-5.71	-4.84	-6.15	-3.45	-2.9	-5.16	-5.64	-9.23	-14.63	-5.9	-1.99	-1.51	-1.7	-4.42	-1.5	-2.8	
θ (105°)	-4.7	-5.34	-2.58	-2.32	-3.71	-7.06	-12.38	-8.68	-2.45	0.08	-0.5	-3.39	-1.77	-4.51	-9.12	-7.48	-6.71	-9.77	-6.58	-2.34	0.1	-1.48	-3.43	-2.86	-4.7	
θ (120°)	-3.98	-5.07	-4.12	-3.1	-3.06	-5.44	-9.03	-9.49	-2.33	[0.36]	-0.19	-4.05	-3.57	-4.2	-11.38	-11.24	-9.51	-11.42	-5.44	-1.5	-0.79	-2.61	-3.5	-3.68	-3.98	
θ (135°)	-5.91	-8.44	-6.75	-3.74	-2.32	-3.86	-6.98	-11	-4.17	-1.78	-1.86	-2.23	-0.44	-1.36	-9.74	-7.1	-5.24	-5.27	-3.46	-1.54	-2.25	-5.72	-6.83	-5.7	-5.91	
θ (150°)	-3.81	-5.52	-3.85	-2.4	-2.47	-5.04	-7.22	-8.06	-2.63	-0.11	0.21	-0.89	-1.75	-1.96	-3.94	-6.55	-4.12	-3.88	-5.78	-5.87	-4.8	-4.19	-2.94	-2.98	-3.81	
θ (165°)	-7.91	-5.91	-3.79	-2.63	-2.16	-3.17	-5.47	-8.21	-11.05	-13.64	-12.9	-10.01	-8.02	-6.8	-7.13	-9.96	-14.62	-17.1	-14.58	-11.21	-7.63	-5.8	-5.42	-6.23	-7.91	
θ (180°)	-9.49	-11.57	-9.48	-8.4	-7.56	-6.57	-5.44	-4.88	-4.92	-5.73	-7.15	-9.25	-12.53	-16.23	-11.65	-8.66	-6.95	-5.84	-5.25	-5.43	-5.39	-5.43	-6.65	-9.04	-9.49	

1SS																									
Freq. (MHz)	2500																								
Polarity	Theta																								
	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	ϕ	
dB	ϕ (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°)
θ (0°)	-8.44	-7.63	-6.67	-6.21	-6.11	-6.35	-6.85	-8.14	-10.2	-12.22	-13.37	-14.2	-12.16	-9.91	-8.32	-7.21	-6.46	-6.15	-6.38	-7.05	-8.18	-9.91	-12.2	-13.81	-8.44
θ (15°)	-5.6	-4.37	-3.45	-3.1	-3.5	-4.5	-5.54	-6.19	-6.46	-6.51	-6.44	-6.4	-6.52	-6.72	-7.06	-8.38	-7.94	-7.71	-7.87	-8.11	-8.5	-9.28	-7.78	-6.61	-5.6
θ (30°)	-2.15	-0.42	0.77	1.04	0.43	-1.05	-2.63	-3.24	-3.25	-2.97	-2.54	-2.63	-3.25	-3.31	-3.38	-4.03	-4.73	-5.69	-7.19	-9.37	-9.65	-7.05	-4.85	-3.78	-2.15
θ (45°)	-1.24	0.86	1.66	1.4	0	-2.08	-3.06	-2.5	-2.88	-3.19	-1.28	0.06	0.2	0.59	0.19	-1.01	-1.49	-1.4	-1.86	-2.99	-4.22	-4.36	-3.75	-3.2	-1.24
θ (60°)	-1.29	1.25	2.46	2.02	0.54	-2.85	-0.97	0.93	1.28	0.39	-0.88	-0.81	0.18	0.88	1.26	1.39	1.31	1.41	1.46	0.96	-0.29	-1.78	-4.73	-6.28	-1.29
θ (75°)	-0.17	3.61	4.05	2.75	0.54	-0.12	2.23	3.38	3.37	1.88	-0.07	0.83	1.72	3.43	3.5	2.14	2.82	2.92	2.54	1.77	0.79	-0.56	-3.7	-4.89	-0.17
θ (90°)	-0.51	2.7	3.72	3.31	2.01	-0.12	2.67	4.4	[4.74]	4.13	2.08	-0.73	0.85	2.9	3.14	2.96	2.6	2.76	3.31	2.66	1.18	1.41	0.06	-2.54	-0.51
θ (105°)	-1.08	3.13	4.32	3.78	2.09	-0.26	2.22	3.32	3.27	2.08	0.85	1.3	2.51	3.61	2.95	0.4	-0.29	0.16	0.35	-0.09	-0.42	-0.26	-1.85	-4.2	-1.08
θ (120°)	-0.72	0.48	0.54	-0.3	-1.33	-3.12	-0.42	1.28	1.6	0.68	-1.35	-1.66	0.72	2.07	2.02	1.68	0.63	-1.05	-0.79	-0.43	-0.44	0.16	0.1	-1.56	-0.72
θ (135°)	0.59	2.69	3.55	3.25	1.27	-2	-1.93	-1.76	-3.13	-4.94	-4.05	-1.74	-0.61	-0.3	0.14	-0.55	-3.23	-7.27	-9.09	-5.58	-3.33	-2.4	-2.01	-2.54	0.59
θ (150°)	2.71	3.22	3.01	2.08	0.75	-0.67	-0.31	0.18	-0.95	-0.9	0.37	1.42	1.86	1.73	1.09	-0.19	-2.59	-4.64	-6.05	-6.84	-6.41	-6.05	-3.89	-0.62	2.71
θ (165°)	2.11	2.73	2.81	2.36	1.81	0.16	-1.9	-2.77	-3.9	-5.5	-5.92	-5.3	-4.88	-4.48	-3.51	-3.04	-3.71	-4.49	-5.03	-5.3	-5.04	-3.69	-1.79	-0.44	2.11
θ (180°)	-7.46	-6.92	-6.74	-7.17	-8.37	-10.53	-12.62	-10.13	-8.2	-6.81	-5.64	-4.82	-4.4	-4.52	-5.42	-7.09	-10.13	-13.92	-18.34	-13.66	-9.5	-7.22	-5.9	-5.57	-7.46
Polarity	Phi																								
dB	ϕ (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°)
θ (0°)	-7.97	-9.12	-10.5	-11.48	-11.31	-10.38	-9.39	-8	-6.85	-6.75	-6.63	-6.31	-6.63	-7.51	-8.9	-10.2	-11.06	-10.91	-9.85	-8.53	-7.49	-6.61	-5.85	-6.29	-7.97
θ (15°)	-9.25	-12.07	-18.1	-20.34	-14.19	-11.15	-8.49	-6.8	-5.81	-5.19	-4.7	-4.25	-4.03	-4.55	-5.93	-7.35	-9.86	-12.59	-15	-13.65	-10.45	-8.2	-6.72	-6.2	-9.25
θ (30°)	-7.12	-9.73	-11.28	-8.89	-7.85	-6.78	-5.67	-5.54	-5.71	-5.2	-4.48	-3.8	-3.23	-2.9	-2.92	-3.86	-6.61	-10.67	-13.23	-11.46	-10.94	-13.21	-10.19	-6.55	-7.12
θ (45°)	-3.45	-5.44	-6.8	-3.97	-3.26	-3.71	-4.32	-5.03	-5.99	-6.84	-6.99	-6.44	-4.88	-2.82	-2.59	-4.06	-6.98	-10.9	-10.73	-7.83	-7.84	-11.56	-8.78	-4.08	-3.45
θ (60°)	-1.38	-2.45	-1.92	-0.61	-2.27	-4.34	-4.8	-5.4	-6.61	-7.3	-6.83	-5.73	-4.72	-3.57	-1.89	-2.23	-5.48	-12.56	-10.23	-5.25	-4.13	-4.95	-7.56	-2.31	-1.38
θ (75°)	-1.33	-2.03	-0.93	-1.62	-4.25	-9.01	-10.38	-10.32	-6.95	-5.16	-5.77	-6.06	-6.39	-5.27	-4.43	-6.08	-10.16	-15.85	-7.6	-3.55	-0.98	-0.85	-3.21	-0.46	-1.33
θ (90°)	-1.99	-1.9	-0.67	-1.62	-5.22	-6.49	-7.6	-10.4	-13.53	-9.25	-7.85	-7	-5.09	-5.17	-6.58	-5.94	-10.78	-14.71	-5.53	-1.94	-1.37	-1.43	-4.48	-1.25	-1.99
θ (105°)	-2.4	-3.02	-2.32	-2.79	-4.61	-6.45	-9.69	-8.91	-3.83	-1.91	-2.83	-5.01	-3.46	-5.72	-10.98	-7.97	-9.51	-9.81	-6.35	-2.3	[-0.40]	-2.57	-2.79	-2.1	-2.4
θ (120°)	-3.66	-4.31	-4.18	-3.84	-4.37	-4.05	-5.49	-8.57	-3.48	-1.01	-1.6	-4.43	-4.21	-6.24	-12.6	-12.01	-9.89	-11.58	-5.44	-1.48	-0.55	-1.26	-1.5	-3.62	-3.66
θ (135°)	-5.58	-6.95	-6.49	-4.55	-3.48	-3.5	-4.91	-7.58	-4.64	-2.95	-3.43	-2.86	-0.99	-3	-11.18	-6.56	-4.1	-3.93	-3.62	-2.4	-2.68	-4.19	-5.33	-6.12	-5.58
θ (150°)	-5.31	-5.87	-4.52	-3.6	-4.02	-6.27	-6.09	-6.79	-3.84	-1.52	-1.09	-1.77	-2.36	-2.85	-5.77	-7.15	-3.03	-2.55	-3.59	-4.07	-4.18	-4.25	-3.96	-4.06	-5.31
θ (165°)	-6.8	-5	-3.77	-3.24	-3.45	-4.42	-5.68	-6.63	-8.56	-11.37	-14.23	-10.23	-7.71	-7.11	-8.84	-13.03	-17.55	-18.46	-14.25	-10.61	-7.27	-5.36	-4.97	-5.67	-6.8
θ (180°)	-12.33	-11.1	-9.17	-8.25	-7.97	-7.86	-7.9	-7.11	-7.44	-8.52	-9.68	-10.72	-12.23	-12.56	-9.65	-7.12	-5.52	-4.81	-4.5	-4.67	-5.5	-6.72	-8.76	-11.3	-12.33

1SS																										
Freq. (MHz)	5150																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)	
θ (0°)	-0.06	0.71	1.05	0.9	0.18	-1.16	-3.2	-4.27	-3.26	-2.69	-2.48	-2.2	-0.68	0.61	1.11	1.01	0.54	-0.84	-3.13	-4.44	-3.41	-2.7	-2.32	-1.8	-0.06	
θ (15°)	1.25	1.54	1.25	0.6	-0.32	-1.14	-1.52	-1.03	-0.66	-1.33	-2.84	-3.3	-2.37	-1.5	-0.53	-0.07	-0.11	-0.58	-1.26	-1.32	-0.84	-0.44	0.02	0.45	1.25	
θ (30°)	0.79	1.17	1.38	1.54	1.62	0.9	-0.27	-1.07	-1.04	-1.18	-0.63	-0.97	-0.49	-0.68	-0.6	0.23	-0.25	-1.29	-0.99	-0.23	0.99	1.45	0.96	0.38	0.79	
θ (45°)	-1.26	-0.08	-0.82	-0.03	0.96	1.81	0.78	0.02	0.27	0.65	0.74	-0.06	-0.11	0	0.1	-0.45	-1.19	-1.09	-0.89	-0.07	1.34	1.98	1.88	0.74	-1.26	
θ (60°)	-2.18	0.65	2.44	0.13	0.82	2.34	1.13	0.01	0.82	3.07	3.89	3.67	1.51	0.44	2.41	1.24	-0.37	-0.64	-0.36	1.62	3.27	2.48	3.4	2.51	-2.18	
θ (75°)	1.19	0.69	3.08	2.51	1.86	3.3	1.6	2.4	2.06	1.85	2.99	3.51	3.32	1.18	1.85	1.33	2.16	1.66	1.3	3.98	5.64	1.66	3.84	3.51	1.19	
θ (90°)	2.47	2.33	2.55	2.79	2.69	5.61	1.54	4.34	3.94	2.37	2.33	2.43	3.28	-0.78	0.79	1.5	2.5	3.61	2.4	3.89	[6.11]	3.19	3.87	4.11	2.47	
θ (105°)	1.95	1.14	0.07	2.33	0.81	2.69	0.89	3.17	0.63	0.64	2.45	1.4	2.42	-1.02	0.41	-2.17	3.06	2.48	0.95	3.57	5.76	2.83	4.39	4.8	1.95	
θ (120°)	3.66	2.04	-0.23	-0.3	-1.06	-3.31	-1.36	0.32	-0.52	-1.08	0.72	0.82	1.2	0.32	1.6	-2.31	-0.06	0.1	-1.35	1.55	2.15	3.1	2.68	4.38	3.66	
θ (135°)	1.63	-0.98	0.19	-4.06	-2	-1.81	-2.6	-1.43	-2.39	0.57	2.27	1.99	1.82	2.21	-1.02	-4.46	-1.95	-2.97	-2.4	-1.3	0.37	2.47	2.02	2.93	1.63	
θ (150°)	1.92	0.4	-2.65	-3.27	-3.88	-4.24	-5.84	-4.45	-1.26	-0.01	-1.4	-1.81	-0.01	-1.16	-1.52	-2.08	-2.86	-3.77	-5.9	-2.7	-0.2	0.21	0.95	2.07	1.92	
θ (165°)	-0.65	-0.54	-1.18	-1.99	-2.58	-3.77	-4.99	-7.4	-8.55	-6.76	-8.32	-6.7	-5.76	-4.1	-2.42	-3.06	-5.38	-8.99	-6.54	-3.45	-1.64	-1.75	-2.64	-2.35	-0.65	
θ (180°)	-3.88	-4.75	-5.14	-6.02	-7.34	-7.04	-5.75	-4.71	-3.87	-2.52	-2	-2.1	-2.52	-3.42	-4.94	-5.75	-6.47	-6.14	-5.75	-4.89	-4.2	-3.49	-3	-2.9	-3.88	
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	
		(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°)
dB	φ (0°)	φ (15°)	φ (30°)	φ (45°)	φ (60°)	φ (75°)	φ (90°)	φ (105°)	φ (120°)	φ (135°)	φ (150°)	φ (165°)	φ (180°)	φ (195°)	φ (210°)	φ (225°)	φ (240°)	φ (255°)	φ (270°)	φ (285°)	φ (300°)	φ (315°)	φ (330°)	φ (345°)	φ (360°)	
θ (0°)	-3.27	-4.57	-3.87	-2.83	-2.44	-1.75	-0.78	0.23	0.88	0.95	0.51	-0.65	-2.76	-4.76	-3.73	-2.97	-2.34	-1.73	-0.67	0.49	1.12	1.05	0.48	-0.5	-3.27	
θ (15°)	-2.12	-1.94	-1.04	-0.71	-0.95	-1.25	-1.17	-0.88	-0.26	0.72	0.59	-0.65	-2.2	-2.69	-2.08	-1.89	-2.01	-1.55	-1	-0.8	-0.17	0.55	0.7	0.25	-2.12	
θ (30°)	1.18	1.47	1.43	0	0.09	0.79	0.9	0.84	0.17	-0.03	1.08	0.95	-1.02	-1.7	-0.88	-0.96	-1.73	-1.32	-1.68	-2.58	-3.47	-1.32	1.04	1.27	1.18	
θ (45°)	-1.03	0.02	0.97	0.93	1.9	0.53	-0.77	-0.39	0.08	0.78	1.6	0.3	-1.77	0.13	0.16	-0.77	-2.28	-4.31	-5.75	-5.54	-1.83	1.2	1.61	-0.29	-1.03	
θ (60°)	-6.5	-3.33	1.69	2.23	1.66	0.07	-0.98	-0.73	-0.1	-0.45	0.77	1.13	0.06	-0.1	1.6	0.99	0.67	-2.15	-5.14	-3.31	-1.12	2.17	2.58	-0.21	-6.5	
θ (75°)	-5.97	-3.07	-0.09	1.46	-1.76	-4.19	-2.12	-1.17	1.01	1.16	-1.59	-2.24	0.43	0.47	1.71	0.79	1.25	-1.02	-7.06	-1.68	-1.95	-3.51	-0.05	0.46	-5.97	
θ (90°)	-4.15	-3.6	-0.36	1.01	-0.73	-2.43	-1.3	-0.71	0.7	[2.67]	1.21	-4.46	-1.96	0.47	0.03	0.08	1.15	-0.97	-3.64	-2.91	-0.94	1.54	-0.11	-0.34	-4.15	
θ (105°)	-1.69	-0.67	-0.51	0.16	-0.3	-1.1	-3.18	-3.38	0.59	1	-1	-3.63	-0.91	0.15	-2.46	-2.24	-2.7	-1.61	-6.64	-4.04	-0.2	0.39	0.36	-0.32	-1.69	
θ (120°)	-6.74	-3.77	-0.91	-1.56	-1.42	-1.2	-1.17	-1.44	-0.82	0.1	-1.54	-1.9	-2.56	-2.64	-1.03	-0.73	-2.8	-1.71	-5.8	-4.31	-0.45	-2.76	-1.38	-5.09	-6.74	
θ (135°)	-2.11	-3.66	-0.97	-1.06	-1.4	-1.24	-1.31	0.03	-1.23	-0.95	-0.8	-2.43	-4.48	-2.68	-1.11	-6.11	-5.72	-6.44	-15.29	-5.13	-2.26	-4.25	-2.95	-0.6	-2.11	
θ (150°)	1.94	1.06	-0.37	-1.69	0.36	0.73	-2.14	-3.06	-2.82	-3.61	-5.67	-2.82	-3.87	-6.15	-3.5	-4.6	-4.54	-1.13	-2.15	-5.59	-5.01	-8.18	-6.27	-2.17	1.94	
θ (165°)	-3.65	-4.99	-6.82	-5.22	-2.77	-2.81	-3.94	-4.64	-5.9	-6.67	-7.24	-6.07	-5.97	-7.29	-9.51	-7.26	-5.29	-3.75	-3.08	-2.88	-4.29	-5.74	-5.44	-4.41	-3.65	
θ (180°)	-5.79	-5.66	-5.02	-4.68	-5.61	-5.88	-5.25	-5.06	-4.82	-5.62	-5.86	-5.61	-6.54	-6.22	-5.3	-4.75	-4.5	-4.09	-5.02	-5.94	-6.7	-7.85	-8.54	-6.93	-5.79	



1SS																									
Freq. (MHz)	5250																								
Polarity	Theta																								
	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
θ (0°)	-0.27	0.53	1.13	1.01	0.12	-1.25	-3.14	-4.13	-2.96	-2.11	-1.68	-1.08	-0.44	0.43	0.91	0.89	0.18	-1.2	-3.07	-3.8	-2.56	-1.89	-1.61	-0.93	-0.27
θ (15°)	0.96	1.39	1.94	1.83	0.85	-0.5	-1.56	-1.67	-1.69	-2.08	-2.31	-3.45	-2.12	-0.76	-0.07	0.43	0.51	0.05	-0.72	-0.96	-0.18	0.29	0.15	0.45	0.96
θ (30°)	1.69	2.2	2.32	2.26	1.38	0.84	0.3	-0.67	-0.98	-0.79	-1.16	-2	-1.5	-1.14	-0.44	0.05	-0.27	-0.62	-0.85	0.16	0.83	1.23	0.85	0.63	1.69
θ (45°)	0.95	1.38	0.68	0.42	0.49	2.14	1.01	0.31	-0.17	0.21	0.4	-0.95	-1.1	0.13	-0.78	-0.99	-0.66	0.87	0.36	1	1.46	1.29	1.62	-0.8	0.95
θ (60°)	-0.66	2.02	3.25	0.08	0.34	2.03	1.33	-0.39	0.59	3.46	4.3	3.19	0.04	1.16	2.32	2	1.52	0.26	-0.08	2.15	3.02	2.34	2.78	1.14	-0.66
θ (75°)	0.9	2.48	2.76	1.13	0.68	3.57	1.73	2.61	2.14	1.6	3.89	4.14	2.74	2.39	2.62	3.41	3.42	1.84	1.61	4.31	5.14	1.8	4.44	2.76	0.9
θ (90°)	2.76	3.32	1.61	2.28	1.21	5.18	1.21	3.73	4.21	2.61	3.08	2.28	2.38	-0.33	0.74	3.04	4.6	3.74	1.9	4.19	[5.43]	2.39	5.23	3.81	2.76
θ (105°)	2.31	2.32	-0.88	1.27	-0.09	1.96	-0.24	2.86	1.33	1.23	2.95	2.19	2.19	-1.75	0.27	-0.28	2.77	1.84	0.91	3.61	4.94	2.75	5.1	4.26	2.31
θ (120°)	3.32	2.3	-0.17	-0.3	-1	-3.33	-1.63	0.49	-0.28	0.16	2.24	1.57	0.81	-0.51	0.3	-1.41	1.12	0.62	-1.77	1.28	1.83	3.36	3.22	3.74	3.32
θ (135°)	1.65	0.09	0.79	-2.7	-0.63	-1.51	-1.48	-1.11	-1.72	1.27	2.25	2.08	1.02	1.76	-2.84	-3.2	-0.32	-2.31	-2.86	-1.8	0.79	3	2.46	2.89	1.65
θ (150°)	2.19	0.58	-2.57	-3.67	-3.57	-3.5	-4.66	-4.45	-1.71	-0.12	-0.94	-1.97	0.05	-1.49	-2.7	-1.78	-1.12	-2.72	-4.6	-4.02	-0.89	0.37	1.23	2.43	2.19
θ (165°)	-0.47	-0.81	-1.81	-2.32	-2.38	-2.81	-4.04	-6.49	-8.07	-6.53	-6.61	-5.64	-5.31	-4.99	-3.56	-3.72	-6.22	-9.08	-6.58	-3.49	-1.95	-1.84	-2.42	-1.85	-0.47
θ (180°)	-3.48	-3.79	-4.6	-5.46	-6.61	-5.95	-4.64	-3.79	-3.31	-2.38	-1.59	-1.51	-2.04	-2.71	-3.5	-4.68	-5.39	-5.23	-4.86	-4.64	-4.51	-3.78	-3.13	-2.86	-3.48
Polarity	Phi																								
	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
θ (0°)	-3.42	-4.1	-3.03	-2.36	-1.53	-1.23	-0.54	0.33	0.83	0.86	0.14	-1.18	-3.1	-4.24	-2.7	-1.9	-1.42	-0.97	-0.21	0.65	0.99	1.11	0.34	-1.18	-3.42
θ (15°)	-0.82	-2.11	-2.49	-2.1	-1.63	-1.49	-0.74	-0.14	0.12	0.11	-0.17	-1.03	-1.98	-2.03	-1.65	-1.63	-0.93	0.02	0.81	1.17	0.98	1.12	1.1	0.72	-0.82
θ (30°)	1.97	1.37	0.86	1.05	1.2	1.41	0.87	0.12	0.29	0.59	0.37	-0.23	-1.86	-1.25	-0.29	-1	-1.58	-0.85	-0.73	-1.56	-2.29	0.18	1.25	1.89	1.97
θ (45°)	-0.11	0.36	1.84	1.82	1.61	-0.09	-0.51	0.21	0.84	1.58	1.91	0.92	-1.95	-0.04	0.13	-1.05	-2.32	-5.43	-7.13	-7.12	-2.76	0.27	0.13	0.13	-0.11
θ (60°)	-7.85	-3.76	-0.02	1.28	0.05	-1.23	-1.76	-2.77	-1.28	-0.16	1.8	2.11	0.08	-0.34	1.83	2.2	0.02	-1.88	-3.49	-1.18	-1.41	0.11	1.61	-1.88	-7.85
θ (75°)	-6.24	-5.4	1.28	1.24	-1.86	-2.42	-2.55	-1.87	1.83	1.78	-1.31	-1.64	-0.23	0.41	2.24	1.35	0.68	-1.33	-5.77	-0.75	-0.44	-3.58	-2.03	0.72	-6.24
θ (90°)	-2.92	-3.3	-0.08	1.1	0.69	-0.54	-0.66	-0.84	1.48	[3.60]	2.82	-3.35	-2.07	0.94	1.25	0.54	0.65	-1.09	-3.1	-2.11	-0.17	0.97	-0.4	-0.55	-2.92
θ (105°)	-1.84	-0.42	-1.39	-0.18	0	-1.66	-1.33	-1.57	1.01	1.98	0.48	-3.15	-1.21	-0.06	-1.9	-3.49	-2.72	-1.56	-6.7	-3.73	0.4	0.76	0.38	-0.5	-1.84
θ (120°)	-3.97	-2.79	-0.18	-1.62	-0.53	-0.54	-1.53	-0.81	-0.16	-0.39	-1.29	-2.59	-2.64	-2.49	-1.46	-2.07	-3.28	-1.37	-5.51	-4.7	-0.75	-2	-1.01	-3.96	-3.97
θ (135°)	-2.58	-3.4	-1.32	0.01	-1.69	-2.08	-1.52	0.15	-0.96	-1.25	-0.34	-2.64	-5.3	-3.94	-1.42	-5.79	-5.87	-6.14	-9.05	-4.33	-1.68	-3.44	-3.15	-1.5	-2.58
θ (150°)	1.54	1.23	1.3	-0.76	-0.77	0.58	-1.17	-2.21	-1.61	-1.43	-3.81	-2.67	-3.45	-4.8	-3.07	-3.84	-4.14	-1.24	-2.3	-5.74	-4.5	-6.22	-4.61	-2.85	1.54
θ (165°)	-2.44	-3.68	-5.42	-3.9	-2.26	-1.52	-1.44	-2.32	-3.73	-6.02	-6.77	-5.26	-5.66	-6.21	-8.41	-7.2	-5.52	-4.79	-3.86	-2.97	-3.51	-3.64	-3.65	-3.01	-2.44
θ (180°)	-5.29	-5.31	-5.5	-5.22	-5.59	-5.96	-5.4	-4.32	-4.08	-4.01	-3.98	-4.32	-4.83	-5.01	-4.58	-3.87	-3.6	-4.07	-4.36	-5.1	-6.08	-7.01	-6.37	-5.74	-5.29

1SS																									
Freq. (MHz)	5350																								
Polarity	Theta																								
	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
θ (0°)	0.6	0.51	0.46	0.37	-0.49	-2.23	-4.43	-4.14	-2.38	-1.16	-0.47	-0.02	0.4	0.49	0.52	0.51	-0.28	-1.45	-3.41	-3.44	-1.83	-0.84	-0.32	0.22	0.6
θ (15°)	1.47	1.65	2.09	2.1	1.1	-0.29	-2.03	-3.54	-3.46	-2.9	-2.15	-2.31	-2.03	-1.18	-0.45	0.32	0.42	-0.14	-1.27	-0.29	0.97	1.16	1.05	1.19	1.47
θ (30°)	1.49	1.73	1.61	2.16	1.51	-0.06	-1.17	-2.26	-2.36	-2.48	-2.49	-2.06	-1.54	-0.25	0.4	0.21	-0.03	-0.49	-0.32	0.74	1.4	2.11	1.7	1.22	1.49
θ (45°)	0.91	1.07	0.92	0.57	1.33	2.22	0.54	-0.74	-1.45	-3.11	-1.51	-0.27	1.26	1.41	0.16	-1.03	-0.19	0.63	0.63	1.3	1.52	0.91	0.72	-0.75	0.91
θ (60°)	0.12	1.26	2.19	-0.58	0.71	1.46	0.73	-0.87	0.93	3.01	3.05	2.45	0.9	1.91	2.18	1.33	0.93	0.33	-0.02	1.86	2.61	1.52	2.47	0.72	0.12
θ (75°)	1.02	1.83	2.3	1.34	0.62	2.98	1.5	2.54	1.09	0.29	2.92	3.63	3.23	3.42	3.21	2.64	2.93	1.6	1.52	3.92	5.2	1.73	4.55	1.63	1.02
θ (90°)	3.09	3.33	1.94	2.23	1.41	5.04	0.63	3.55	4.33	1.91	1.72	2.37	2.48	0.27	1.76	2.32	4.31	3.31	0.85	4.39	[5.34]	1.74	4.48	2.68	3.09
θ (105°)	2.8	1.76	-0.18	1.36	-0.23	2.23	0.07	3.07	1.3	0.34	1.4	1.76	2.52	-0.77	1.1	-0.33	2.46	1.72	1.25	4.04	4.35	2.15	4.13	2.87	2.8
θ (120°)	2.34	2.2	-0.33	-0.13	-0.73	-4.94	-1.96	0.13	-0.68	-0.07	1.61	1.42	1.46	-0.86	0.99	-0.97	0.83	0.64	-2.17	1.2	1.05	2.32	2.83	3.14	2.34
θ (135°)	1.53	0.43	0.03	-2.21	-1.04	-2.62	-0.99	-1.84	-1.67	0.67	1.89	2.46	0.76	0.83	-2.19	-3.49	0.12	-1.98	-3.08	-1.4	1.66	2.42	0.9	1.88	1.53
θ (150°)	0.78	-0.16	-2.43	-4.21	-2.68	-2.99	-3.84	-3.99	-1.96	0.23	-0.66	-1.99	-0.59	-1.16	-3.22	-1.57	-0.76	-3.03	-5.86	-4.08	-1.69	0.02	0.84	1.53	0.78
θ (165°)	-0.7	-1.61	-2.61	-3.37	-3.63	-3.58	-3.92	-6.58	-8.54	-6.79	-5.29	-4.07	-4.03	-5.3	-4.75	-4.95	-6.51	-8.66	-7.7	-5.23	-3.67	-3.62	-3.16	-1.64	-0.7
θ (180°)	-3.79	-4.57	-5.05	-5.61	-7.2	-6.61	-5.2	-4.44	-3.85	-2.68	-2.35	-2.28	-2.66	-3.53	-4.32	-5.16	-6.63	-6.19	-5.52	-4.95	-4.68	-4.04	-3.63	-3.44	-3.79
Polarity	Phi																								
	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
θ (0°)	-4.56	-3.72	-1.85	-0.88	-0.43	0.22	0.57	0.7	0.74	0.27	-0.45	-1.76	-3.99	-3.55	-2.03	-1.09	-0.43	0.2	0.79	0.75	0.79	0.37	-0.29	-1.63	-4.56
θ (15°)	-3.18	-2.51	-2.61	-2.41	-2.1	-1.72	-1.16	-0.51	-0.23	-0.3	-1.21	-2.34	-3.25	-3.1	-2.23	-1.44	-0.59	0.34	1.18	1.49	1.27	1.07	0.96	0.16	-3.18
θ (30°)	1.35	-0.07	0.82	1.5	1.4	1.34	0.99	0.26	-0.07	0.21	0.38	0.16	-1.58	-1.14	-0.29	-0.74	-0.69	-0.92	-0.94	-1.27	-1.85	-0.82	1.26	2.51	1.35
θ (45°)	-0.01	-1.06	1.87	2.14	2.23	0.88	0.38	0.51	1.27	1.96	1.41	0.61	-2.11	-1.93	-1.74	-1.42	-3.21	-6.19	-8.26	-7.37	-2.7	-0.18	-0.93	-0.15	-0.01
θ (60°)	-6.31	-5.56	1.7	2.65	0.71	-0.85	-1.74	-1.74	-0.06	0.54	2.29	1.99	-1.31	-2.44	-0.15	2.09	-0.85	-2.35	-4.36	-1.71	-2.79	-0.01	1.09	-2.53	-6.31
θ (75°)	-5.22	-3.66	0.71	0.02	-1.93	-2.46	-4.23	-1.35	1.37	1.56	-1.83	-1.4	0.36	-0.46	1.52	2.02	1.11	-1.69	-5.22	-0.91	-0.8	-5.35	-1.82	-0.01	-5.22
θ (90°)	-2.18	-2.16	-0.19	-1.31	0.45	-1.33	-1.38	-2.13	0.95	[4.03]	2.58	-4.5	-2.07	-0.02	0.63	0.37	0.77	-1.86	-2.68	-2.1	-0.85	0.33	-2.34	-0.63	-2.18
θ (105°)	-3	-3.26	-0.65	-0.2	1.07	-2.11	-0.44	0.08	1.8	2.12	1.13	-3.38	-2.21	-0.97	-1.8	-4.26	-4.28	-2.17	-5.68	-3.42	0.46	0.65	0.8	-1.17	-3
θ (120°)	-2.38	-2.49	-0.93	-1.81	0.09	0.29	-0.93	-1.3	-0.1	-0.41	-0.67	-3.66	-2.6	-3.09	-2.67	-2.51	-4.57	-1.66	-5.37	-4.49	-2.26	-1.29	-0.56	-4.23	-2.38
θ (135°)	-2.52	-2.38	-2.24	0.27	-0.93	-1.35	-2.29	-0.78	-0.82	-1.78	-0.8	-2.55	-5.62	-5.95	-2.11	-5.81	-5.22	-5.54	-8.66	-4.18	-2.46	-3.52	-6.07	-2.98	-2.52
θ (150°)	1.4	0.88	1.31	-1.43	-1.71	0.64	-1.26	-1.88	-1.41	-0.26	-1.56	-2.58	-3.28	-4.42	-3.2	-5.16	-3.8	-1.34	-2.56	-5.84	-3.95	-5.77	-4.25	-3.59	1.4
θ (165°)	-1.81	-2.94	-4.51	-3.14	-1.52	-1.36	-1.87	-2.59	-3.66	-5.01	-6.91	-5.56	-6.65	-8.13	-9.79	-8.21	-6.6	-6.53	-5.41	-3.61	-2.19	-1.76	-2.33	-2.1	-1.81
θ (180°)	-5.5	-5.44	-5.48	-4.79	-5.28	-6.42	-6.68	-5.44	-4.69	-4.05	-3.31	-3.56	-4.51	-4.74	-4.96	-5.55	-5.05	-4.41	-4.55	-5.23	-5.94	-6.26	-6.4	-6.27	-5.5



1SS																										
Freq. (MHz)	5500																									
Polarity	Theta																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB	φ (0°)	0.98	0.83	0.49	-0.16	-1.11	-2.26	-4.39	-4.77	-2.92	-1.36	-0.16	0.61	1.05	1.19	0.79	0.05	-0.84	-2.36	-4.77	-4.92	-2.97	-1.47	-0.18	0.63	0.98
θ (0°)		2.31	1.83	1.34	1.29	0.81	-0.82	-3.29	-4.6	-5	-6.24	-5.62	-2.83	-1.3	-0.86	-0.55	-0.74	-0.78	-1.33	-1.97	-1.01	-0.18	0.14	1.22	2.02	2.31
θ (15°)		2.31	1.92	1.14	1.73	1.84	1.21	-0.53	-2.4	-3.33	-6	-6.57	-2.81	-0.11	1.32	0.66	-0.19	0.12	-0.48	0	1.32	1.76	2.3	2.14	1.67	2.31
θ (30°)		0.16	1.54	1.57	1.61	2.12	2.56	1.35	0.18	-0.45	-3.95	-4.07	0.93	2.98	1.86	0.8	-0.13	0.45	0.98	0.81	1.37	1.62	2.78	1.73	1.15	0.16
θ (45°)		-0.23	0.94	1.48	1.15	2.78	1.65	0.78	-1.61	1.95	3.69	1.22	1.86	2.59	2.17	0.81	0.62	0.43	1.69	0.53	1.71	2.45	2.21	2.58	0.58	-0.23
θ (60°)		1.04	2.29	1.99	1.02	1.45	2.95	1.18	0.13	-1.76	2.2	2.42	4.24	3.85	2.97	3.08	2.29	3.38	1.86	1.62	3.85	6.04	1.95	3.13	0.23	1.04
θ (75°)		3.65	3.07	1.7	2.22	2.96	4.47	0.69	2.51	2.25	-0.52	0.46	2.7	3.59	0.9	2	2.73	4.18	4.31	1.36	4.72	[6.71]	1.49	3.1	2	3.65
θ (90°)		4.31	2.94	0.65	0.47	-0.06	2.31	0.71	2.33	-0.18	0.17	0.57	2.54	2.04	-2.23	1.59	-0.15	2.69	2.26	2.31	4.54	5.12	1.83	3.27	2.47	4.31
θ (105°)		3.05	1.21	1.79	-0.37	1.11	-5.32	-1.46	0.27	-4.27	-0.64	1.08	1.6	3.06	-1.5	0.86	0.79	-0.02	1.78	0.41	1.69	2.05	1.66	2.15	4.3	3.05
θ (120°)		2.45	1.95	-0.25	-1.53	-1.23	-3.48	-0.91	-3.39	-3.48	-0.26	1.7	2.39	0.73	0.06	-2.75	-2.28	0.3	-1.38	-4.15	-0.46	2.91	1.46	1.12	3.19	2.45
θ (135°)		0.02	-0.72	-3.41	-6.53	-4.14	-3.44	-3.49	-2.93	-1.18	1.01	0.39	-0.69	-0.89	-1.13	-3.61	-2.22	-1.84	-4.35	-5.7	-4.28	-2.64	-1.42	1.39	2.18	0.02
θ (150°)		-0.4	-0.23	0.07	-0.7	-2.18	-3.44	-3.94	-6.43	-9.6	-6.69	-3.88	-3.1	-3.47	-4.76	-6.62	-7.08	-7.66	-9.02	-8.23	-6.16	-4.52	-4.41	-2.51	-1.09	-0.4
θ (165°)		-1.74	-1.96	-1.93	-2.19	-2.87	-4.43	-3.83	-3.93	-4.32	-2.54	-1.58	-1.23	-1.51	-2.06	-2.41	-2.67	-3.38	-4.18	-3.99	-3.87	-4.09	-3.38	-2.47	-2.04	-1.74
θ (180°)																										
Polarity	Phi																									
		φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ	φ
		(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°)
dB	φ (0°)	-5.66	-4.7	-2.86	-1.25	-0.23	0.75	1.03	1	0.63	-0.08	-1.22	-2.76	-5.13	-4.94	-2.86	-1.06	-0.11	0.51	1.03	0.9	0.58	0.07	-1.07	-2.41	-5.66
θ (0°)		-2.66	-3.27	-2.61	-2.05	-1.12	-0.37	0.19	-0.04	-1.17	-2.42	-3.8	-5.01	-6.36	-4.8	-3.31	-2.21	-1.39	-0.57	-0.15	0.43	0.89	1.39	1.35	0.41	-2.66
θ (15°)		0.74	0.35	1.03	0.91	0.03	0.72	0.66	-0.17	0.51	0.31	-0.15	-0.96	-2.48	-2.02	-1.22	-0.22	-0.62	-0.94	-1.81	-1.55	-0.09	0.8	2.21	2.72	0.74
θ (30°)		0.5	-1.65	2.05	1.93	2.2	0.51	-0.72	-0.16	2.11	3.13	0.73	0.48	-1.41	-1.18	-2.04	-1.15	-2.18	-4.86	-6.36	-4	-2.38	-3	1.07	1.73	0.5
θ (45°)		-4.6	-4.03	2.32	2.7	1.02	0.03	-1.36	-0.64	0.51	1.21	2.91	1.6	-2.24	-1.91	-1.07	2.48	0.97	-2.24	-6.55	-3.83	-1.98	1.15	-0.03	-1.01	-4.6
θ (60°)		-4.45	-2.33	2.36	0.68	-0.99	-1.31	-1.27	-1.26	2.01	1.75	-0.33	-0.72	-0.36	-1.55	1.61	2.02	1.37	-1.65	-4.96	-1.54	-1.39	-2.29	-0.99	-2.24	-4.45
θ (75°)		-1.95	-2.2	-1.5	-1.45	-0.84	-3.76	-2.4	-2.24	1.08	[3.36]	0.94	-3.64	-1.48	-0.63	1.14	0.03	-0.3	-1.97	-5.59	-2.84	0.12	0.24	-4.23	-0.46	-1.95
θ (90°)		-2.83	-2.11	1.13	1.29	3.05	-0.28	-0.05	0.21	1.25	2.46	1.43	-2.32	-1.65	-0.43	-3.13	-3.9	-4.17	-2.41	-4.9	-2.48	0.64	0.96	1.88	-0.52	-2.83
θ (105°)		-2.85	-3.97	-1.24	-1.49	-0.44	-0.12	-1.42	-3.85	-1.69	-0.98	-0.82	-4.8	-3.87	-1.1	-3.29	-1.49	-3.54	-1.98	-4.49	-4.77	-1.63	-0.51	-0.1	-2.05	-2.85
θ (120°)		-1.11	-0.95	-3.24	-0.41	-1.26	-1.54	-2.36	-1.94	-0.64	-2.26	-1.63	-2.42	-7.89	-8.88	-3.28	-3.87	-4.83	-3.96	-5.62	-2.64	-1.81	-1.82	-7.62	-5.45	-1.11
θ (135°)		-0.98	-0.76	0.37	-1.6	-2.29	0.39	-0.59	-1.53	-1.76	0.08	-0.46	-3.45	-4.16	-4.47	-2.1	-5.59	-4.62	-2.35	-2.77	-5.66	-3.84	-5.67	-7.85	-7.09	-0.98
θ (150°)		-1.19	-1.72	-3.85	-2.73	-0.48	-0.18	-1.44	-2.42	-2.78	-4.61	-5.93	-5.44	-6.64	-7.75	-8.18	-8.45	-8.92	-8.15	-5.49	-2.81	-1.46	-1.99	-3.48	-3.27	-1.19
θ (165°)		-4.93	-5.17	-5.22	-4.08	-3.9	-4.35	-3.44	-2.41	-1.76	-1.43	-1.27	-2.04	-3.52	-4.49	-5.17	-5.44	-4.27	-3.76	-3.29	-3.22	-3.61	-3.97	-4.18	-4.41	-4.93
θ (180°)																										

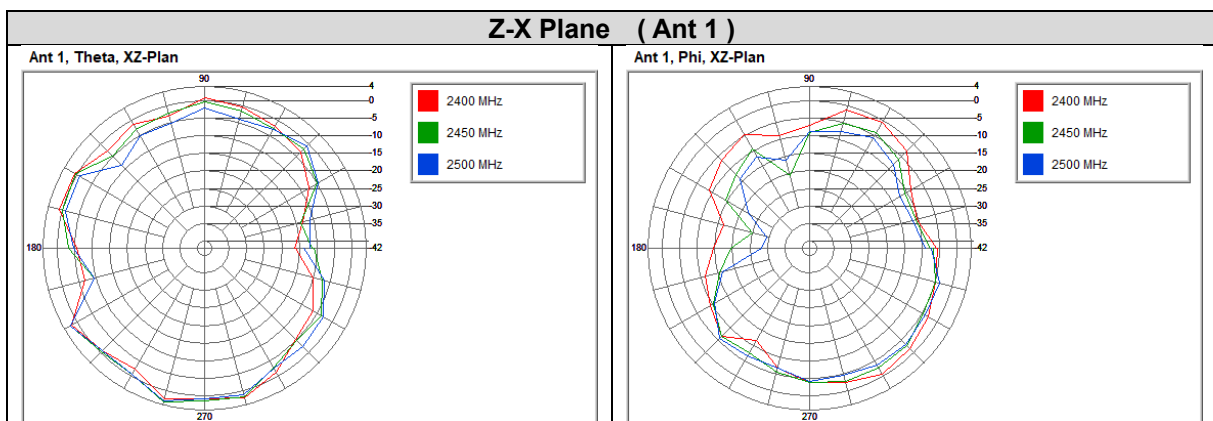
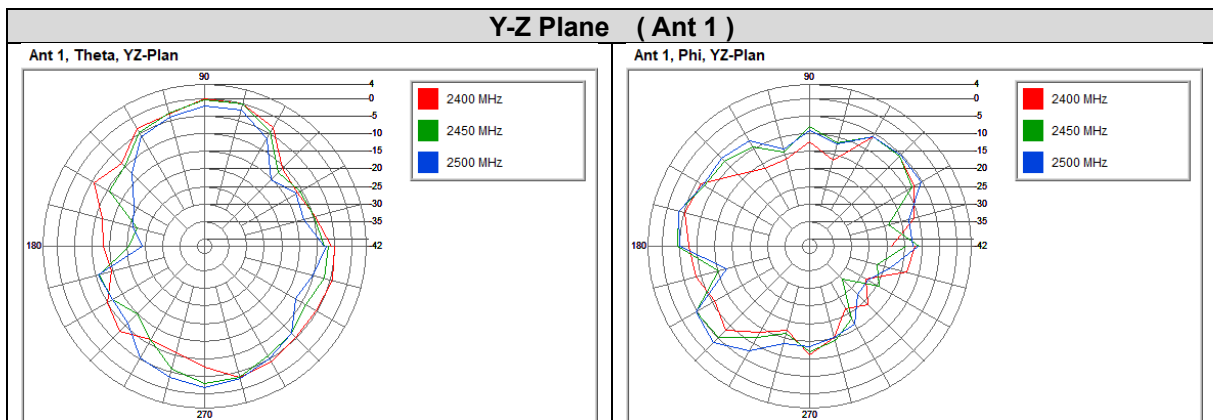
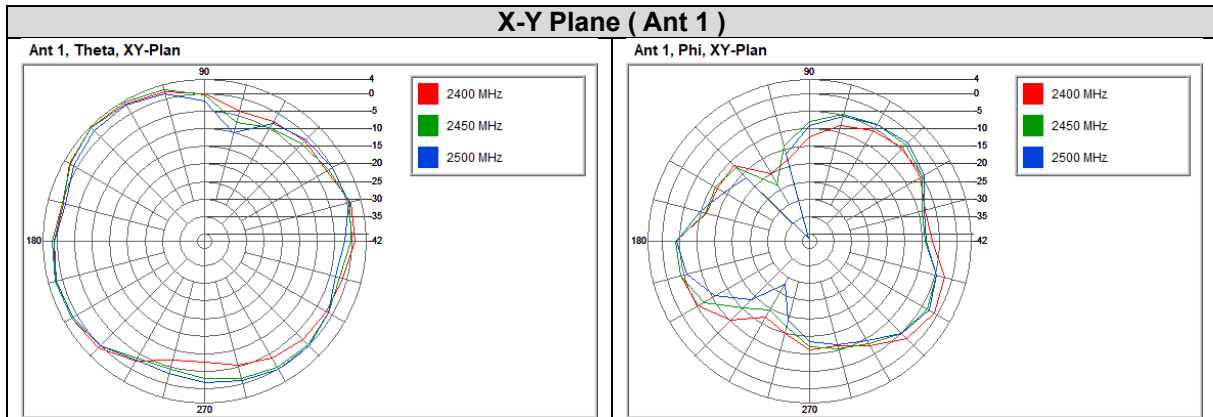


1SS																									
Freq. (MHz)	5650																								
Polarity	Theta																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
θ (0°)	0.43	0.48	0.12	-0.76	-2.6	-4.95	-7.95	-7.67	-5.58	-3.73	-1.6	-0.45	0.08	0.2	0.05	-0.8	-2.36	-4.34	-7.39	-7.16	-4.75	-3.68	-1.54	-0.23	0.43
θ (15°)	1.93	2.09	2.13	2.26	1.48	0.12	-2.3	-3.3	-3.62	-5.34	-4.96	-2.23	-0.09	0.67	0.51	-0.04	-0.56	-1.79	-3.21	-1.45	-0.06	0.75	0.79	1.27	1.93
θ (30°)	2.63	2.2	1.52	3.23	3.22	1.35	-1.47	-3.23	-2.89	-3.48	-5.42	-4.07	0.03	1.6	1.07	0.6	-1.14	-3.02	-3.17	-1.52	0.61	2.35	2.28	1.24	2.63
θ (45°)	0.93	0.36	1.95	2.85	2.16	1.29	-0.03	-0.92	-0.97	-2.8	-2.83	-0.03	2.37	2.36	0.13	0.97	0	0.49	0.2	2.48	2.52	2.94	2.24	1.65	0.93
θ (60°)	-0.01	0.08	0.07	1.84	2.62	1.72	0.91	0.04	2.17	3.65	1.92	1.87	2.07	2.88	1.16	2	0.6	2.27	0.53	3.01	3.91	2.1	2.35	1.22	-0.01
θ (75°)	-1.25	3.09	2.51	2.58	3.1	3.43	1.72	-0.03	0.64	3.16	3.5	4.56	2.51	2.65	4.28	1.62	3.57	1.79	2.48	4.34	6.05	0.69	2.58	1.12	-1.25
θ (90°)	2.58	2.91	2.01	1.78	4.58	4.33	0.58	2.25	2.1	0.68	0.06	3.09	3.47	1.13	3.51	3.21	2.92	3.28	1.29	4.98	[6.89]	0.62	3.55	2.67	2.58
θ (105°)	3.68	2.99	-0.42	2	2.47	3.45	0.52	1.05	0.23	-0.01	0.13	3.23	1.4	-1.31	2.43	0.49	2.51	3.14	3.44	5.38	5.32	0.58	3.31	2.57	3.68
θ (120°)	3.97	-0.17	2.04	-1.65	1.89	-3.21	-0.94	0.88	-2.53	-0.6	0.8	2.39	2.79	-3.67	-0.31	1.94	-0.19	2.22	1.32	1.65	2.97	1.33	1.68	4.39	3.97
θ (135°)	3.5	1.46	-1.35	-3.88	-2.98	-2.72	-0.71	-1.93	-2.83	-0.45	2.22	2.07	0.41	-2.21	-2.28	-2.61	-0.18	-3.11	-4.28	0.39	2.95	-0.21	1.54	3.68	3.5
θ (150°)	0.33	-1.48	-4.75	-6.19	-4.46	-4.68	-3.3	-2.44	-1.82	0.31	0.71	-0.72	-1.65	-1.18	-2.87	-5.24	-3.32	-5.52	-5.05	-3.78	-2.65	-1.75	1.34	1.92	0.33
θ (165°)	0.29	0.24	0.61	0.17	-2.34	-5.68	-5.66	-7.05	-8.55	-6.22	-3.54	-3.34	-4.13	-4.9	-6.11	-7.39	-8.34	-10.81	-10.04	-6.81	-4.61	-3.59	-1.28	0.03	0.29
θ (180°)	-0.59	-0.9	-1.35	-1.78	-2.47	-3.92	-4.24	-4.33	-4.36	-2.38	-1.14	-0.55	-0.72	-1.1	-1.71	-2.19	-2.92	-3.81	-4.49	-3.83	-3.56	-1.83	-0.92	-0.54	-0.59
Polarity	Phi																								
dB	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
θ (0°)	-9.04	-6.92	-5.17	-3.75	-1.81	-0.83	-0.24	-0.02	-0.5	-1.5	-3.27	-5.46	-9.32	-7.22	-5.31	-3.46	-1.43	-0.18	0.32	0.27	-0.25	-1.28	-2.89	-4.88	-9.04
θ (15°)	-0.82	-1.36	-0.71	0.22	0.38	0.3	0.57	0.95	1.05	0.36	-1.95	-6.12	-11.11	-7.29	-3.21	-1.43	-0.91	-0.78	-0.3	0.23	0.97	1.53	1.67	1.15	-0.82
θ (30°)	1.91	1.38	1.21	2.42	1.91	2.09	2.35	1.93	1.69	1.83	0.77	-2.4	-3.69	-3.55	-0.84	-0.19	-0.95	-1.24	-1.48	-2.57	-1.57	0.78	2.11	2.73	1.91
θ (45°)	1.91	-1.18	0.19	-0.22	1.26	-0.53	-2.11	-0.96	1.76	3.2	2.15	1.09	-1.58	0.33	0.41	-1.51	-0.95	-3.29	-5.11	-4.33	-1.91	-1.41	2.03	2.47	1.91
θ (60°)	-2.47	-2.34	2.1	-0.09	0.17	-0.39	-2.42	-1.5	0.96	1.86	2.98	1.56	-2.03	-1.04	0.08	1.46	1.74	-1.77	-8.02	-4.57	-0.77	2.24	1.32	0.16	-2.47
θ (75°)	-2.61	-0.93	2.24	-0.54	-1.91	-1.17	-0.34	0.47	1.77	1.68	-0.14	0.73	-0.54	-0.46	1.88	3	2.22	-1.9	-5.51	-2.23	-3.45	-1.73	-0.1	-1.24	-2.61
θ (90°)	-2.47	0.61	0.66	-2.45	-0.63	-1.48	-1.95	-0.56	1.29	[3.48]	1.34	-2.95	-1.07	-0.8	-1.06	-0.28	0.55	-0.5	-4.79	-0.9	0.51	-0.67	-2.97	-0.81	-2.47
θ (105°)	-1.37	-4.15	-2.39	-0.07	0.25	-2.81	-1.87	0.19	0.38	2.46	-0.35	-3.03	-0.24	-0.48	-3.16	-3.35	-3.84	-2.37	-3.72	-1.73	1.35	1.8	0.94	-0.75	-1.37
θ (120°)	-2.1	-1.7	-1.98	-1.72	0.52	0.39	0.46	-0.32	0.01	0.39	0.33	-3.74	-1.67	-0.49	-5.39	0.42	-2.28	-4.18	-6.14	-3.47	-2.08	-0.93	-0.19	-1.63	-2.1
θ (135°)	-0.91	-1.56	-2.9	-1.43	-1.74	-1.06	0.72	-1.39	-1.26	-1.39	-1.82	-2.34	-5.23	-6.78	-3.75	-4.44	-4.82	-2.4	-4.67	-1.75	-1.8	-1.35	-4.9	-4.27	-0.91
θ (150°)	0.52	-0.99	-1.19	-2.02	-1.56	0.69	0	-1.3	-3.98	-1.53	-0.1	-4	-5.46	-4.43	-2.01	-4.36	-4.76	-2.84	-3.22	-5.83	-5.33	-6.66	-6.5	-4.59	0.52
θ (165°)	-1.62	-1.8	-4.25	-3.74	-0.33	0.3	-1.09	-3.27	-5.06	-5.03	-6.05	-5.78	-6.11	-7.17	-6.24	-6.24	-6.64	-6.09	-4.29	-2.89	-2.78	-3.44	-4.19	-3.82	-1.62
θ (180°)	-5.42	-4.92	-5.07	-3.52	-2.63	-3.18	-2.5	-1.37	-0.93	-0.88	-1.24	-2.68	-4.4	-5.04	-5.27	-4.07	-2.72	-1.79	-1.32	-1.36	-2.27	-3.39	-3.45	-3.92	-5.42

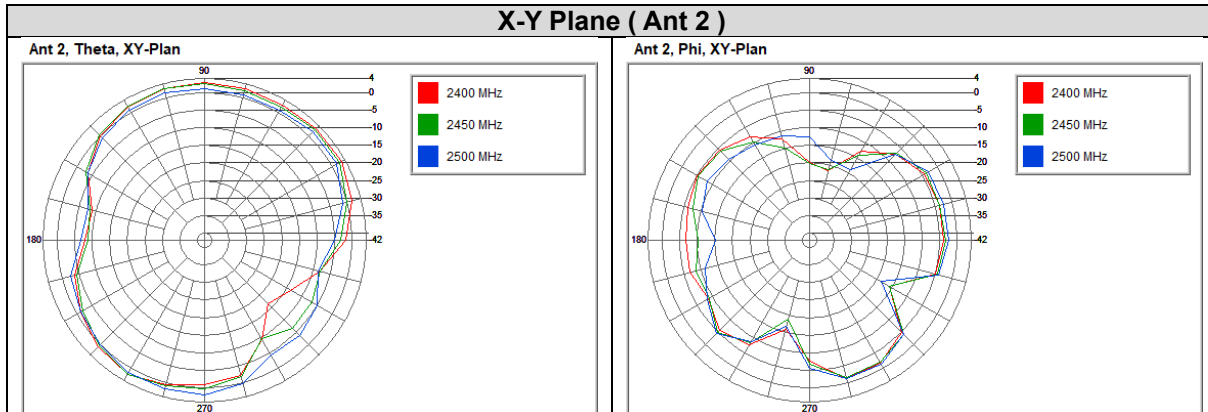


1SS																									
Freq. (MHz)	5850																								
Polarity	Theta																								
	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
θ (0°)	0.32	0.87	1.32	0.98	0.26	-1.01	-3.34	-3.73	-3.64	-3.68	-3.19	-1.31	0.26	1.24	1.44	1.2	0.35	-1.28	-3.57	-3.87	-3.59	-3.7	-3.15	-1.3	0.32
θ (15°)	2.89	3.29	3.12	2.73	1.97	0.39	-2.19	-3.29	-2.29	-2.37	-3	-2.98	-1.11	0.33	0.83	0.8	0.17	-0.81	-1.5	-0.1	0.57	0.94	1.13	1.91	2.89
θ (30°)	3.57	3.61	2.65	3.49	2.38	0.29	-1.14	-3.23	-4.02	-3.19	-2.78	-3.68	-0.5	1.34	1.48	0.67	-0.54	-1.16	-1.77	-1.1	0.19	1.86	2.52	2.87	3.57
θ (45°)	2.7	2.1	3.27	3.21	3.42	3.93	2.34	0.26	-0.53	-4.09	-3.25	0.4	2.51	3.02	1.7	0.32	0.49	0.65	2.01	3.72	2.96	2.35	1.82	1.13	2.7
θ (60°)	1.05	-0.39	-1.5	1.58	2.44	2.7	1.43	1.13	2.3	2.25	0.16	1.57	2.51	3.79	1.94	1.66	2.74	3.01	2.01	4.1	3.78	2.79	0.98	0.41	1.05
θ (75°)	-0.36	1.95	0.32	1.02	3.45	3.89	2.4	1.61	1.31	2.23	3.64	3.37	2.56	3.78	3.57	2.6	3.54	1.8	2.56	3.84	4.14	1.62	2.63	0.75	-0.36
θ (90°)	3.68	4.11	1.99	1.95	4.19	[4.94]	1.66	2.49	1.1	-1.06	-0.86	3.64	1.97	2.4	3.35	2.91	3.74	2.13	0.59	3.43	4.74	0.22	3.58	1.47	3.68
θ (105°)	1.51	4.55	0.71	1.69	3.17	3.23	0.66	1.16	-0.7	-0.45	0.87	3.07	0.48	1.17	2.15	-0.26	2.84	2.88	2.4	4.64	3.9	-0.42	3.75	2.27	1.51
θ (120°)	3.46	1.93	1.65	-5.07	0.05	-3.07	-0.66	0.07	-2.6	-0.66	1.36	3.39	1.44	-1.66	0.97	0.22	0.95	1.65	0.22	1.57	3	0.94	2.81	3.21	3.46
θ (135°)	3.56	2.39	-1.1	-2.31	-2.32	-2.35	-1.01	-2.34	-1.92	0.08	3.2	1.43	-0.05	-3.35	0.1	-3.94	-1.37	-2.45	-2.44	1.38	1.97	0.18	2.78	3.09	3.56
θ (150°)	-2.16	-3.11	-1.36	-3.51	-3.4	-2.59	-3.84	-2.84	-1.21	1.25	0.37	-0.62	-1.39	-1.06	-4.42	-3.39	-1.49	-4.07	-4.35	-2.78	-2.52	-2.45	0.44	0.78	-2.16
θ (165°)	1.2	0.77	-0.59	-1.27	-3.26	-7.34	-6.81	-6.67	-7.51	-7.74	-4.29	-2.99	-5.05	-6.65	-5.59	-5.41	-5.82	-7.68	-7.53	-5.64	-4.14	-2.65	-0.62	0.56	1.2
θ (180°)	-2.28	-2.93	-3.94	-4.03	-4.57	-5.57	-5.71	-4.93	-5.15	-3.32	-1.94	-1.49	-1.71	-2.27	-2.85	-3.73	-4.71	-5.53	-6.11	-5.43	-4.72	-3.67	-2.4	-2.05	-2.28
Polarity	Phi																								
	ϕ (0°)	ϕ (15°)	ϕ (30°)	ϕ (45°)	ϕ (60°)	ϕ (75°)	ϕ (90°)	ϕ (105°)	ϕ (120°)	ϕ (135°)	ϕ (150°)	ϕ (165°)	ϕ (180°)	ϕ (195°)	ϕ (210°)	ϕ (225°)	ϕ (240°)	ϕ (255°)	ϕ (270°)	ϕ (285°)	ϕ (300°)	ϕ (315°)	ϕ (330°)	ϕ (345°)	ϕ (360°)
θ (0°)	-4.72	-4.35	-4.35	-4.9	-3.85	-1.81	0	0.97	1.42	1.15	0.37	-1.08	-4.04	-4.71	-4.5	-4.58	-2.88	-1.12	0.19	0.87	0.98	0.7	-0.4	-2.12	-4.72
θ (15°)	-1.76	-0.6	0.33	1.58	1.86	1.5	1.01	0.52	0.09	-1.26	-1.69	-3.04	-4.63	-3.67	-3.06	-2.29	-1.48	-0.68	0.01	0.19	0.79	0.93	0.3	-0.76	-1.76
θ (30°)	0.49	0.1	1.53	1.85	1.46	1.81	0.79	0.1	0.67	0.95	0.27	-1.92	-4.04	-3.79	-1.19	-0.35	-0.87	-1.23	-0.87	-0.91	-0.77	0.83	2.48	1.15	0.49
θ (45°)	0.83	0.18	2.44	2.36	1.46	-0.11	-0.68	0.39	1.67	2.44	1.95	0.6	-1.45	-0.72	-0.91	-2.07	-1.44	-2.96	-4.63	-6.37	-2.07	-0.28	0.7	2.11	0.83
θ (60°)	-0.31	0.01	2.37	-0.93	-0.81	-0.93	-3.05	-1.12	0.42	2.2	[3.19]	0.55	-3.94	-2.08	-0.64	0.53	2.25	0.07	-5.71	-3.71	-0.64	1.49	0.96	-0.49	-0.31
θ (75°)	-3.35	0.33	2.08	-0.43	-2.75	-1.22	-0.41	1.54	2.5	1.18	0.79	0.82	-1.25	0.09	1.8	2.3	3.13	-0.22	-5.16	-1.34	-2.79	-1.1	1.05	-1.15	-3.35
θ (90°)	-4.81	-0.61	3.09	-2.93	-2.66	-2.03	-1.05	1.11	2.83	2.67	1.54	-4.04	-1.4	-5.02	-2.2	-1.18	0.67	-0.18	-4.62	-0.6	-0.7	-2.23	-0.95	-2.47	-4.81
θ (105°)	-2.11	-2.42	-2.43	-2.79	-3.75	-2.17	-0.39	0.96	2.83	2.94	0.48	-3.27	-0.75	-1.89	-2.22	-4.09	-6.1	-3.62	-1.86	-0.49	1.55	1.1	1.11	-0.05	-2.11
θ (120°)	-4.22	-1.85	-1.18	-1.68	-0.79	-1.26	-0.66	0.01	0.85	1.06	1.05	-3.86	-1.52	-1.58	-6.02	-0.66	-4.34	-5.27	-10.35	-3.89	-1.83	-2.28	-1.24	-1.58	-4.22
θ (135°)	-0.84	-1.25	-2.83	-0.39	0.38	1.15	0.77	0.48	-0.04	-0.09	-1.15	-3.67	-2.73	-6.22	-5.9	-4.95	-4.46	-2.34	-6.26	-1.75	-2.93	-0.92	-3.33	-3.41	-0.84
θ (150°)	1.24	-0.47	-0.81	-1.79	-2.3	0.27	0.07	-0.34	-2.47	-3.51	0	-5.57	-10.27	-6.1	-3.26	-4.14	-5.28	-4.07	-3.83	-6.27	-7.67	-3.67	-2.61	-5.21	1.24
θ (165°)	-4.44	-3.54	-4.49	-5.46	-1.89	-0.66	-1.56	-4.33	-7.5	-6.31	-5.79	-8.1	-7.54	-7.13	-7.43	-7.89	-6.18	-5.5	-3.6	-2.56	-2.39	-3.64	-5.44	-5.28	-4.44
θ (180°)	-6.45	-6.21	-5.99	-5.99	-4.72	-4.6	-4.64	-3.5	-2.8	-3.03	-3.21	-4.75	-6.19	-6.43	-5.98	-5.95	-4.08	-2.92	-2.54	-2.62	-3.37	-4.88	-6.09	-6.45	-6.45

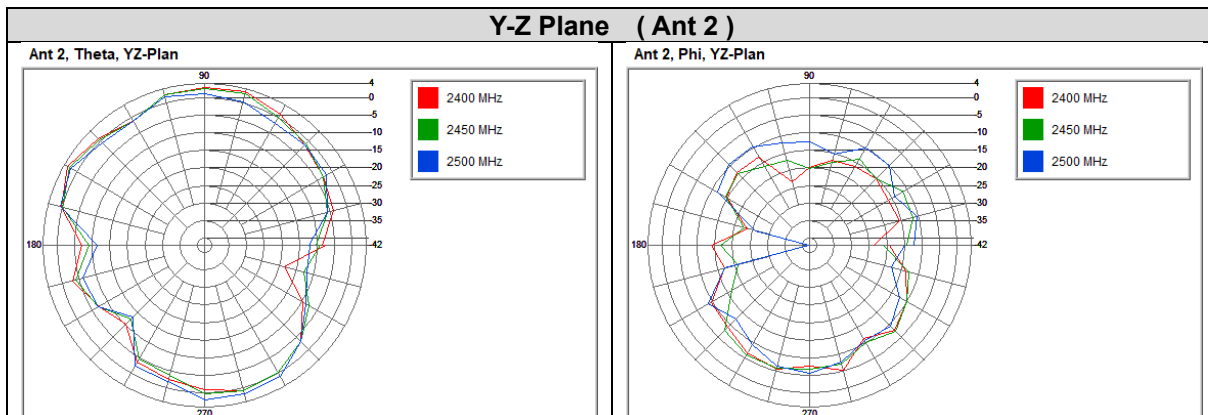
A.2 Antenna Pattern Test Plots



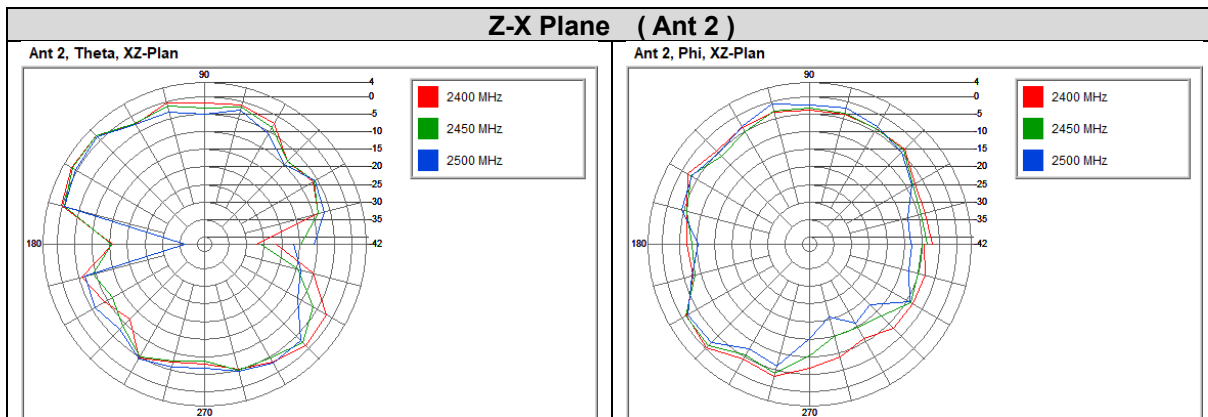
X-Y Plane (Ant 2)



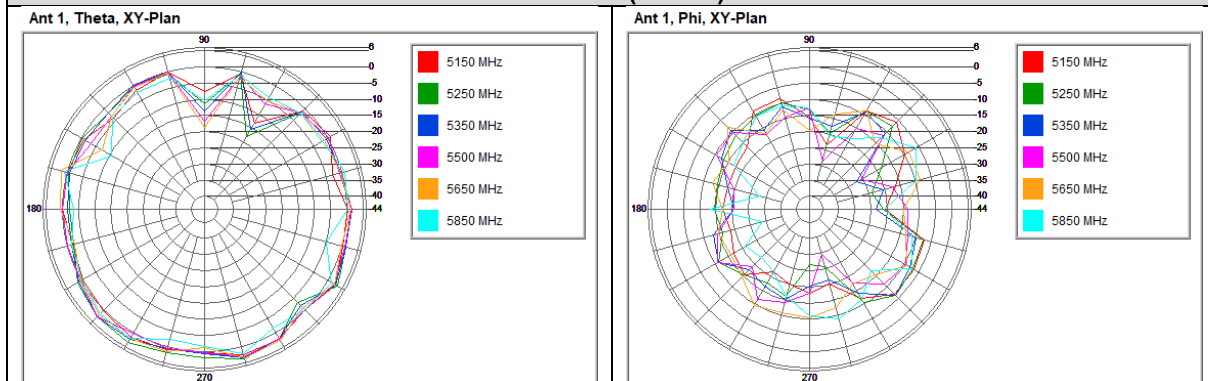
Y-Z Plane (Ant 2)



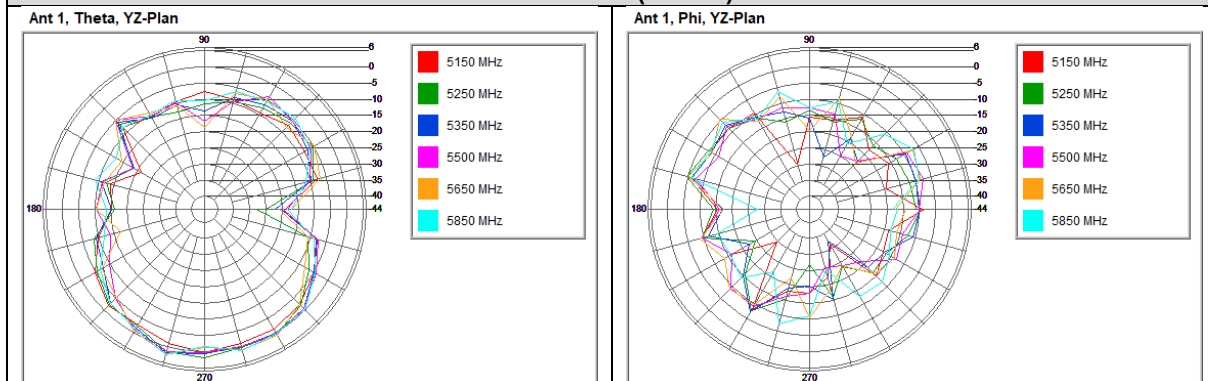
Z-X Plane (Ant 2)



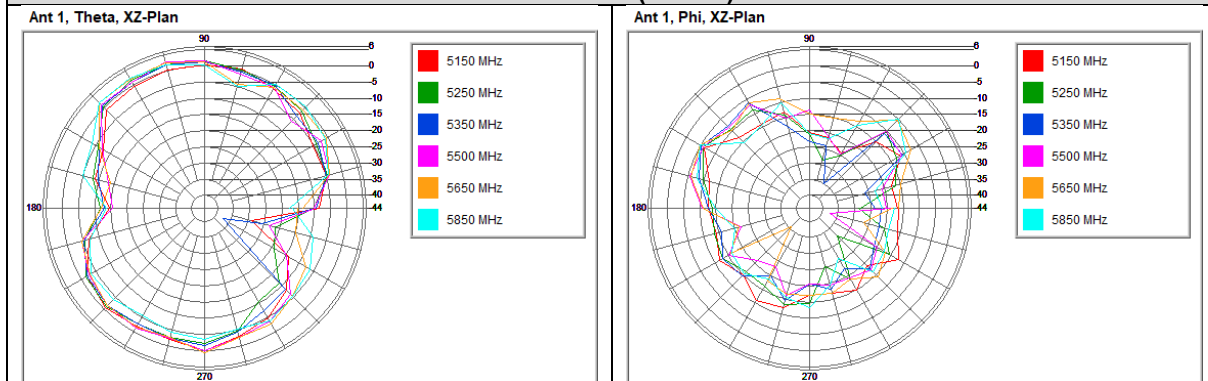
X-Y Plane (Ant 1)



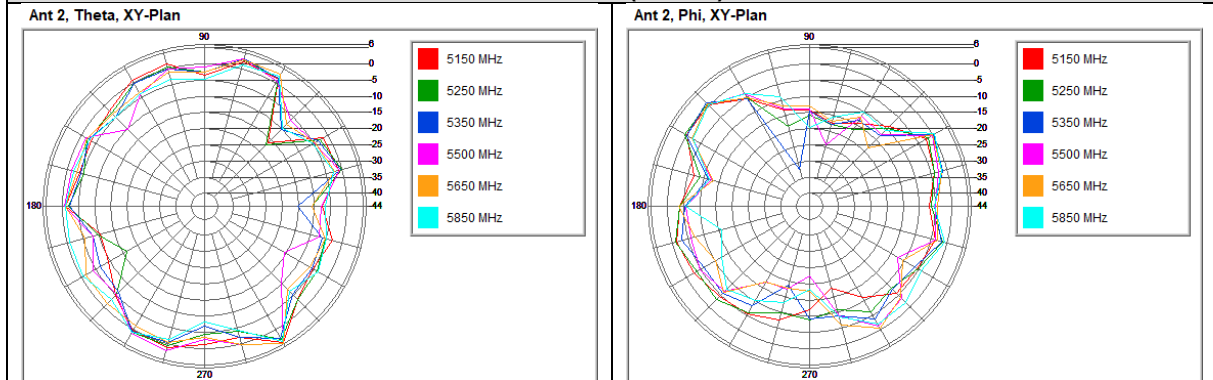
Y-Z Plane (Ant 1)



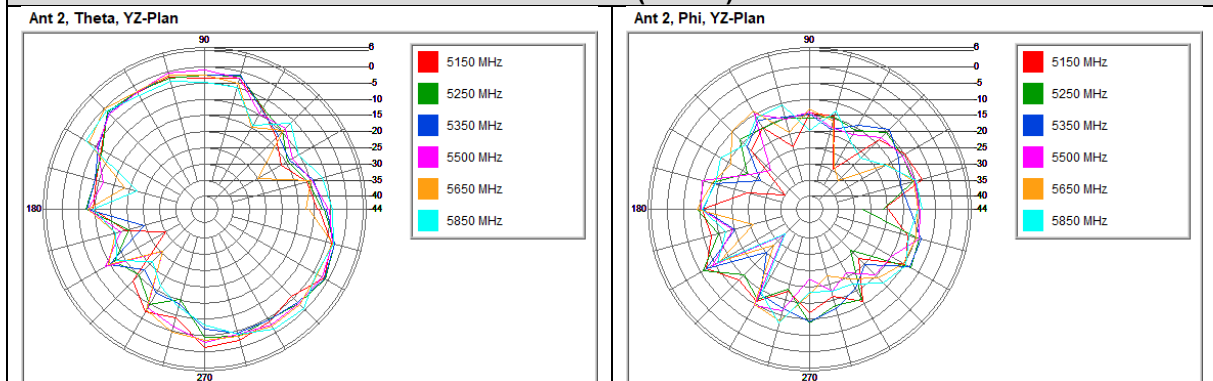
Z-X Plane (Ant 1)



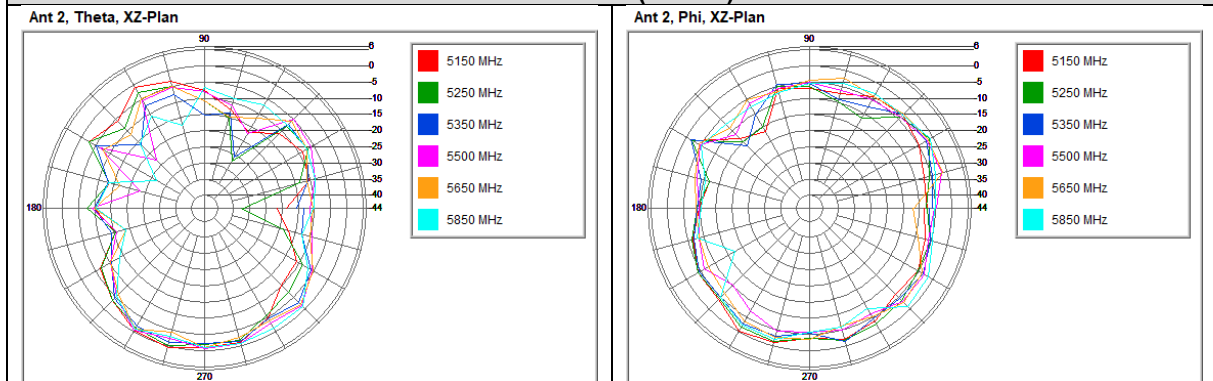
X-Y Plane (Ant 2)



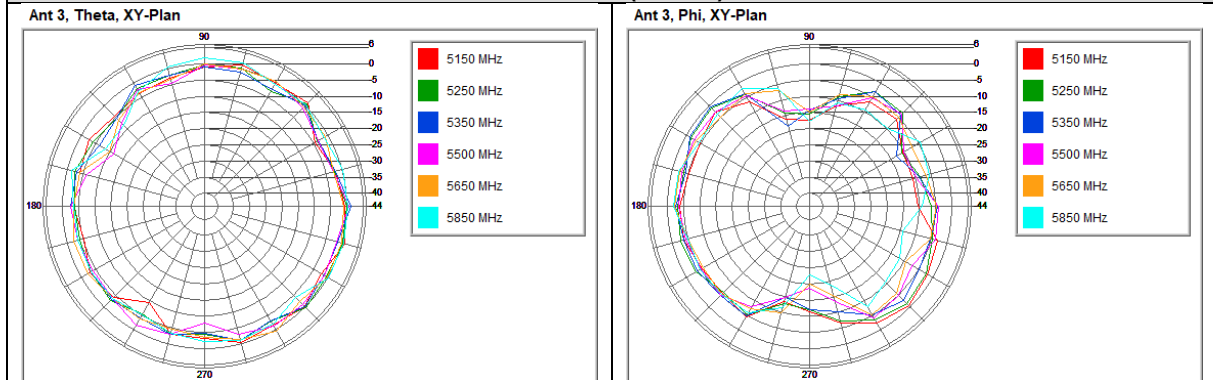
Y-Z Plane (Ant 2)



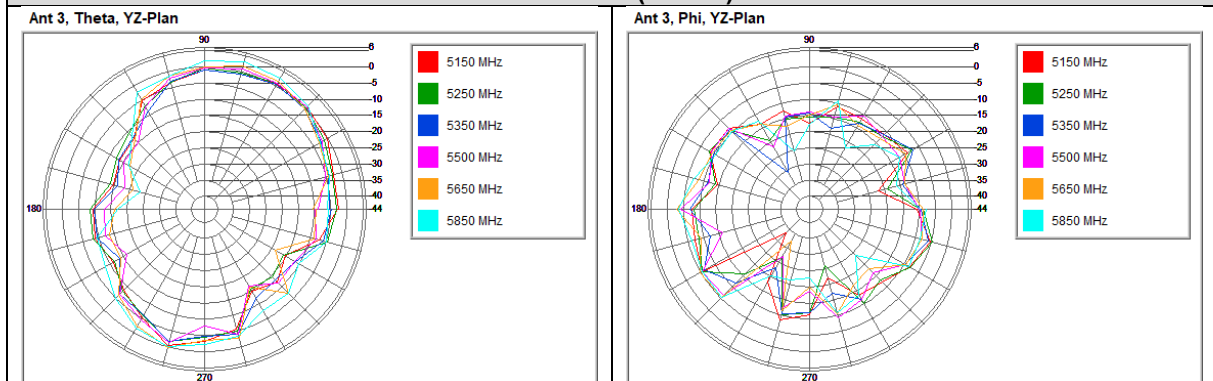
Z-X Plane (Ant 2)



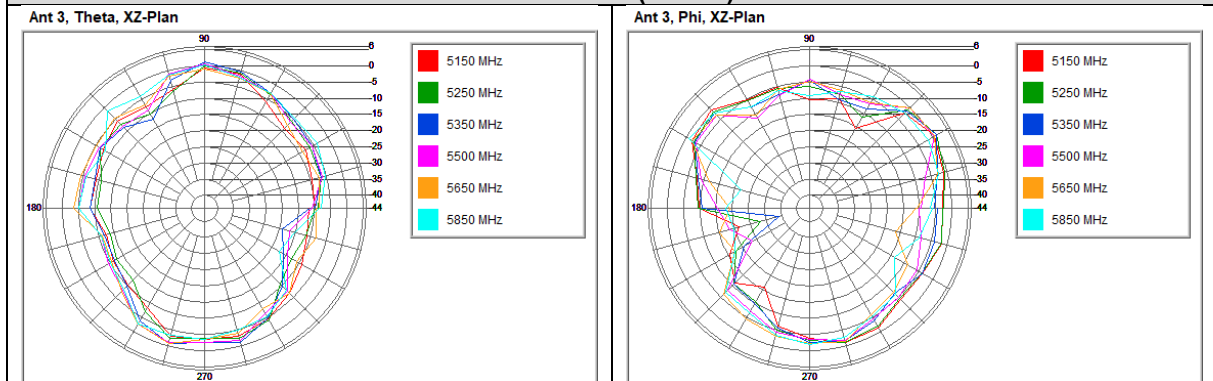
X-Y Plane (Ant 3)



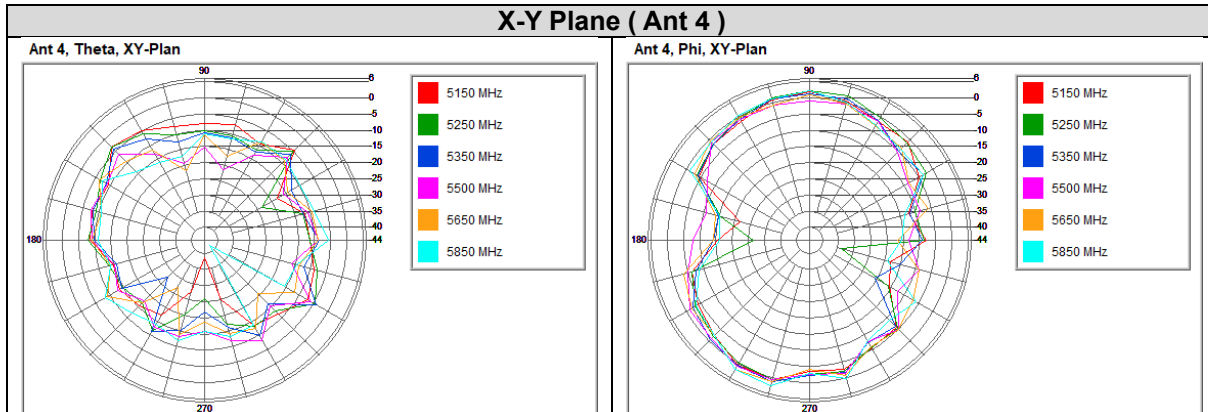
Y-Z Plane (Ant 3)



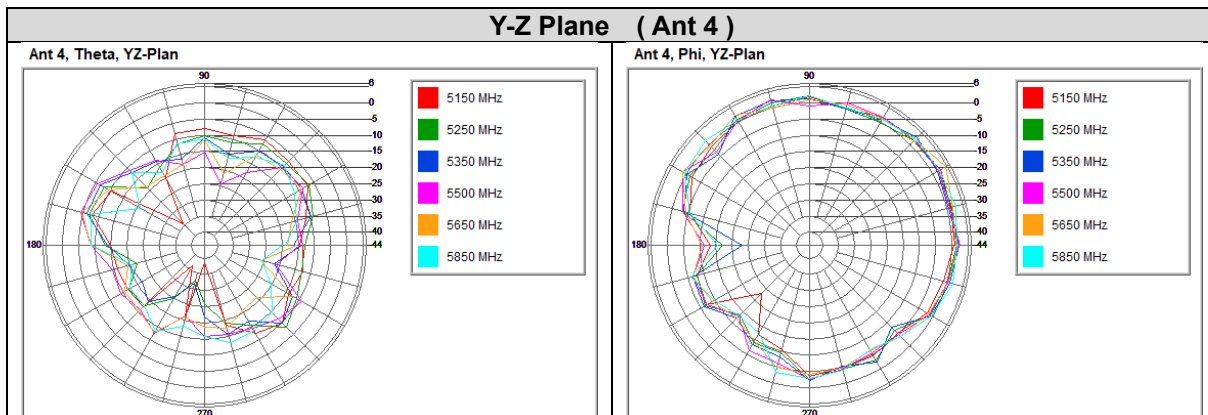
Z-X Plane (Ant 3)



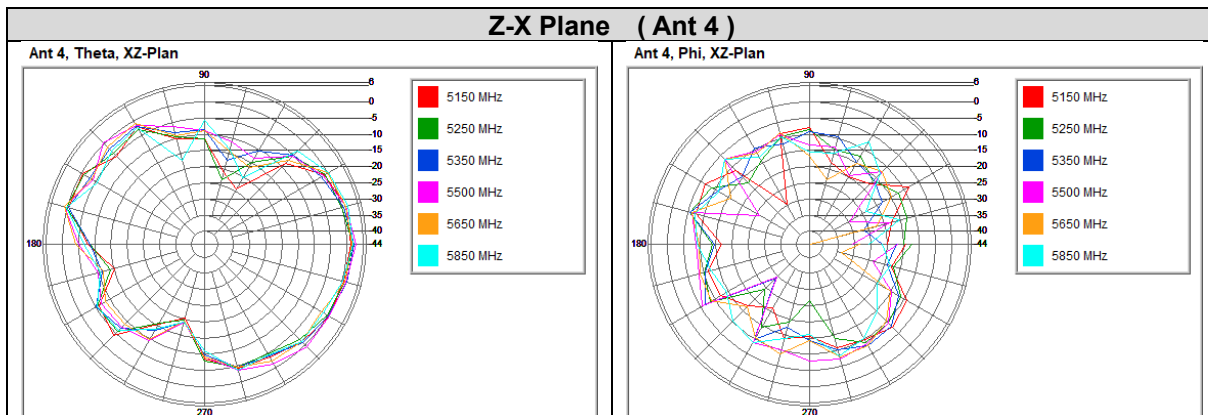
X-Y Plane (Ant 4)



Y-Z Plane (Ant 4)



Z-X Plane (Ant 4)



APPENDIX B –Test Setup and EUT antenna port photo

B.1 Antenna Location (Configuration and RF Chains)

Please refer to the documents “ORBCKS-WTW-P23110556_Calix_u6XG GS5229XG_Antenna measurement Report_APPENDIX”

B.2 Test Setup Diagram for EUT

Please refer to the documents “ORBCKS-WTW-P23110556_Calix_u6XG GS5229XG_Antenna measurement Report_APPENDIX”

APPENDIX C - Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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