

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Direction Gain Test Report

Applicant: Askey Computer Corporation
10F, No. 119, Jiankang Rd., Zhonghe Dist., New Taipei City,
Taiwan

Manufacturer: Askey Computer Corporation
10F, No. 119, Jiankang Rd., Zhonghe Dist., New Taipei City,
Taiwan

Product Name: 5G NR Sub 6 WiFi 7 Router

Brand Name: Verizon

Model No.: ASK-NCM1100

Model Difference: N/A

Report Number: TERF2311002748E2

Date of EUT Received: August 4, 2023

Date of Test: October 23, 2023 ~ October 27, 2023

Issue Date: December 20, 2023

Approved By

Vito Pei

Vito Pei

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013.

The results of this report relate only to the sample identified in this report.

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2311002748E2	00	Original.	November 9, 2023	Susan Lin	
TERF2311002748E2	01	1. Update chapter 3.4 2. Add chapter 4	December 20, 2023	Susan Lin	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	5G NR Sub 6 WiFi 7 Router
Brand Name:	Verizon
Model No.:	ASK-NCM1100
Model Difference:	N/A
Hardware Version:	Rev4
Firmware Version:	SDK 2.0.6
EUT Series No.:	ACD33200232
Power Supply:	12V
Test Software (Name/Version):	Tera Term 4,68,0,0

1.2 RF Specification

WLAN 2.4G

Wi-Fi	Frequency Range	Channels	Modulation Technology
802.11b	2412~2462	11	DSSS
802.11g	2412~2462	11	OFDM
802.11n20	2412~2462	11	OFDM
802.11n40	2422~2452	7	OFDM
802.11be20	2412~2462	11	OFDMA
802.11be40	2422~2452	7	OFDMA
Modulation type:		CCK, DQPSK, DBPSK for DSSS	
		64QAM, 16QAM, QPSK, BPSK for OFDM	
		4096 QAM, 1024 QAM, 256 QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA	
Data Rate:		802.11 b: 1/2/5.5/11 Mbps	
		802.11 g: 6/9/12/18/24/36/48/54 Mbps	
		802.11 n_20MHz:up to 288.8Mbps	
		802.11 n_40MHz:up to 600Mbps	
		802.11 ax_20MHz:up to 573.6Mbps	
		802.11 ax_40MHz:up to 1147.2Mbps	
		802.11 be_20MHz:up to 688.2Mbps	
		802.11 be_40MHz:up to 1376.5Mbps	

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Wi-Fi	Frequency Range	Channels	Modulation Technology
802.11a 802.11n 802.11be 20M	5180~5240	4	OFDM
	5260~5320	4	OFDMA
	5500~5720	12	OFDMA
	5745~5825	5	OFDMA
802.11n 802.11be 40M	5190~5230	2	OFDMA
	5270~5310	2	OFDM
	5510~5710	6	OFDMA
	5755~5795	2	OFDMA
802.11ac 802.11be 80M	5210	1	OFDMA
	5290	1	OFDMA
	5530~5690	3	OFDM
	5775	1	OFDM
802.11ac 802.11be 160M	5250	1	OFDM
	5570	1	OFDM

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11a,11n
	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM in 802.11ac
	1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11ax
	4096QAM, 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA in 802.11be
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 288.8 Mbps
	802.11 n_40MHz: up to 600 Mbps
	802.11 ac_20MHz: up to 346.8 Mbps
	802.11 ac_40MHz: up to 800 Mbps
	802.11 ac_80MHz: up to 1733.2 Mbps
	802.11 ac_160MHz: up to 3466.8 Mbps
	802.11 ax_20MHz: up to 573.6 Mbps
	802.11 ax_40MHz: up to 1147.2 Mbps
	802.11 ax_80MHz: up to 2402 Mbps
	802.11 ax_160MHz: up to 4804 Mbps
	802.11 be_20MHz: up to 688.2 Mbps
	802.11 be_40MHz: up to 1376.5 Mbps
	802.11 be_80MHz: up to 2882.4 Mbps
	802.11 be_160MHz: up to 5764.8 Mbps

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1.3 Antenna Designation

WLAN 2.4G

Antenna Type	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PCB	Antenna 11	2412~2462	2.66
	Antenna 12	2412~2462	4.49
	Antenna 13	2412~2462	3.49
	Antenna 14	2412~2462	3.24

WLAN 5G

Antenna Type	Antenna No.	Freq. (MHz)	Peak Antenna Gain (dBi)
PCB	Antenna 11	5150~5250	3.12
		5250~5350	4.73
		5470~5725	2.94
		5725~5850	1.09
	Antenna 12	5150~5250	3.69
		5250~5350	3.33
		5470~5725	3.35
		5725~5850	3.51
	Antenna 13	5150~5250	2.82
		5250~5350	3.32
		5470~5725	2.19
		5725~5850	2.36
	Antenna 14	5150~5250	4.06
		5250~5350	3.43
		5470~5725	2.98
		5725~5850	2.89

Note:

1. Antenna information is provided by the applicant.

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1.4 DUT Support mode

Band	Modulation mode	CDD mode	Beamforming mode	Ant 11	Ant 12	Ant 13	Ant 14
2.4GHz	802.11b	Nss1-Nss4	Not Support	TX/RX	TX/RX	TX/RX	TX/RX
	802.11g	Nss1-Nss4	Not Support	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT20)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11n(HT40)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE20)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE40)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11be(EHT20)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11be(EHT40)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX

Band	Modulation mode	CDD mode	Beamforming mode	Ant 11	Ant 12	Ant 13	Ant 14
5GHz	802.11a	Nss1-Nss4	Not Support	TX/RX	TX/RX	TX/RX	TX/RX
	802.11an(HT20)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11an(HT40)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT20)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT40)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT80)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ac(VHT160)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE20)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE40)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE80)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11ax(HE160)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11be(EHT20)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11be(EHT40)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11be(EHT80)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX
	802.11be(EHT160)	Nss1-Nss4	Nss1-Nss4	TX/RX	TX/RX	TX/RX	TX/RX

The 802.11be(ETH20) in NSS1 of beamforming mode are worst case in WIFI 2.4G/5G

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1.5 Test Methodology of Applied Standards

FCC KDB 662911 D03 MIMO Antenna Gain Measurement v01

ANSI C63.10:2013

KDB 412172 Determining ERP and EIRP v01r01

1.6 Test Facility

Laboratory	Test Site Address	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	TW0027	TW3702

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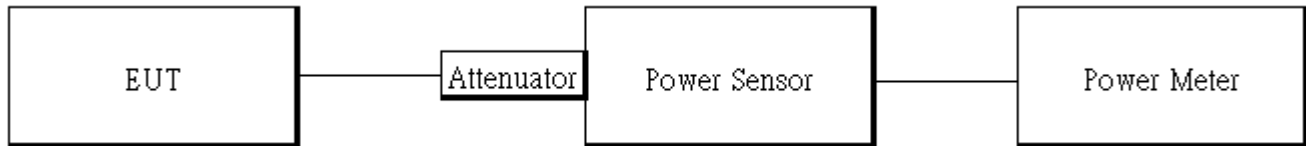
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2 CONDUCTED POWER

2.1 Test Setup



2.2 Measurement Procedure

2.2.1 Output Power

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.
5. 2TX mode: offset is set with "measure and add 10 Log (N)" to measurement for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna, cable loss is specified below.

*** Note: The duty cycle factor and below is compensated to obtain the maximum value of measurement in average.**

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2.3 Conducted Power

2.4G band:

802.11 be EHT20		RU Config	Average Power(dBm)				Average Power(dBm)
2.4G			Data Rate (Mbps)				Data Rate (Mbps)
CH	Frequency (MHz)		MCS0				MCS0
			Ch0	Ch1	Ch2	Ch3	Total Power
11	2462	full	23.39	23.55	23.58	23.98	29.65

5G band:

802.11be EHT20		RU Config.	Average Power(dBm)				Average Power(dBm)
5.2/5.3/5.6/5.8G			Data Rate (Mbps)				Data Rate (Mbps)
CH	Frequency (MHz)		MCS0				MCS0
			Ch0	Ch1	Ch2	Ch3	Total Power
36	5180	full	12.78	15.26	13.89	13.85	20.06
64	5320	full	11.81	15.49	12.90	14.49	19.92
100	5500	full	12.81	15.33	14.36	12.76	19.97
165	5825	full	14.62	16.61	14.89	14.00	21.16

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3 ANTENNA PATTERN MEASUREMENT AND DIRECTIONAL GAIN CALCULATION

3.1 Test location

Fully Anechoic Chamber of Antenna pattern measurement

3.2 Test Setup and Procedure

3.2.1 Test setup in Fully Anechoic Chamber(8m*4m*4m)

The setup of EIRP measurement as Figure 1. The EUT is positioned on center of turntable in fully anechoic chamber, Data is recorded using the spectrum analyzer for both theta and phi polarizations at each position.

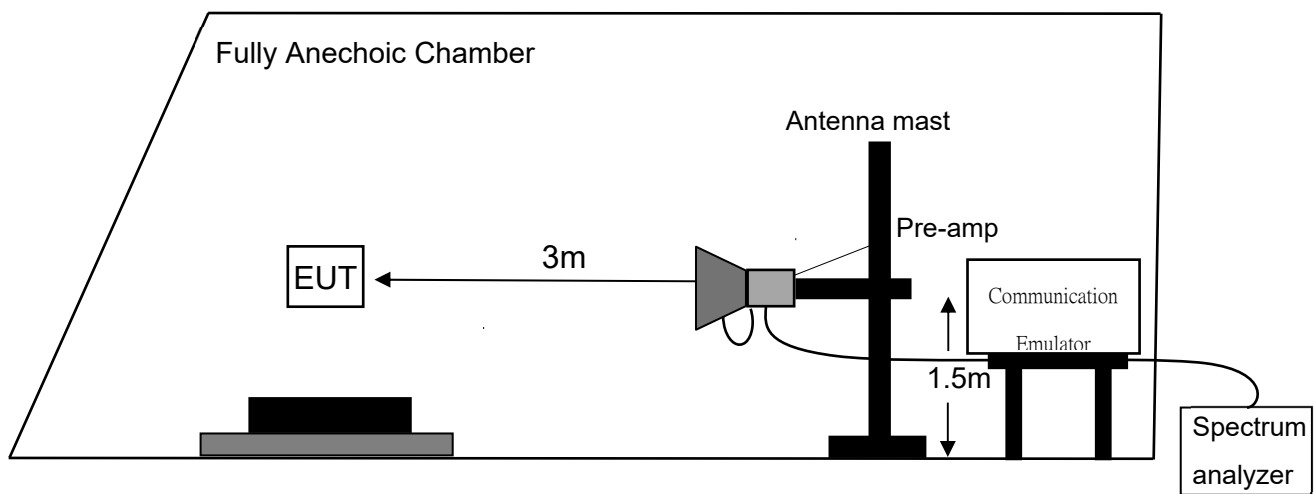


Figure 1. fully Anechoic Chamber for Antenna Pattern measurement

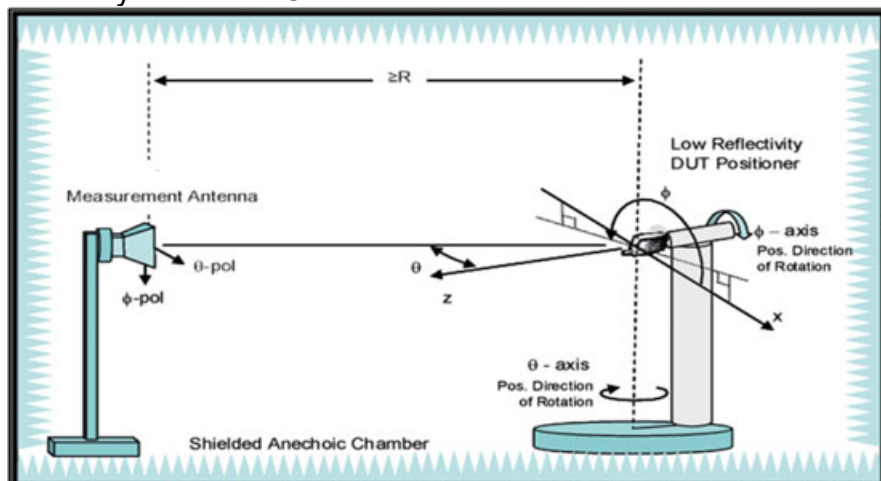


Figure 2. Configuration of Antenna Pattern measurement

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3.2.2 Test Instruments

Radiated Emission Test Site: FAC 2					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Horn Antenna	SCHWARZBECK	BBHA9120D	320	02/02/2023	02/01/2024
Spectrum Analyzer	R&S	FSV-40	101059	12/15/2022	12/14/2023
3D Phi Axis	Max-Full	3DGCC-150	N/A	N/A	N/A

3.2.3 Test Procedure

1. Connect EUT to communication emulator and record power set of EUT, the measured conducted power.
2. Set the EUT on the positioner on center of turntable for free space only.
3. Connect EUT with communication emulator on beamforming mode.
4. Measured the channel power by spectrum and the spectrum set follow ANSI C63.10
5. Read the channel power on spectrum in follow positions.
 - A. The EUT is then stepped between -90 to 90 degrees along phi axis in 15 degrees increments at each phi position, the theta axis is stepped from 0 to 360 degrees in 15-degree increments.
 - B. Data is recorded using the spectrum for each position.
 - C. Change the antenna polarization and repeat step A to B
 - D. Confirm the 3dB beamwidth over 15-degree, the step A and B with 1/5/10 degree increments which is less than and close to 3dB beamwidth if the 3dB beamwidth less than 15-degree.
6. According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

Where:

- EIRP** effective radiated power or equivalent isotropically radiated power (expressed in the same units as P_T , typically dBW, dBm, or power spectral density (PSD)², relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
- P_T** transmitter output power, expressed in dBW, dBm, or PSD;
- G_T** gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- L_C** signal attenuation in the connecting cable between the transmitter and antenna, in dB.

7. Directional Antenna Gain(dBi) = Max EIRP(dBm) – Total Conducted Power(dBm)

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3.4 Test results

Mode	Frequency (MHz)	Polarization	Angle (Phi/Theta)	Read level (dBm)	Factor (dB)	EIRP (dBm)
BF mode (Nss=1)	2462	H	105/120	-4.7	40.16	35.46
	5180	V	90/82.5	-19.88	45.94	26.06
	5320	V	97/225	-19.26	45.6	26.34
	5500	H	180/172.5	-18.77	45.73	26.96
	5825	H	180/90	-19.2	46.66	27.46

Note:

$EIRP(dBm) = \text{Reading level}(dBm) + \text{Factor}(dB)$

$\text{Factor} = \text{Antenna}(dBi) + \text{Cable Loss}(dB) + \text{Air Loss}(dB)$

Mode	Frequency (MHz)	EIRP(dBm)	Total Conducted Power(dBm)	Directional Ant. Gain(dBi)
BF mode (Nss=1)	2462	35.46	29.65	5.81
	5180	26.06	20.06	6.00
	5320	26.34	19.92	6.42
	5500	26.96	19.97	6.99
	5825	27.46	21.16	6.30

Note:

$\text{Directional Antenna Gain}(dBi) = \text{Max EIRP}(dBm) - \text{Total Conducted Power}(dBm)$

The all EIRP data for 1 spatial stream are showing on Appendix 1

Frequency (MHz)	Maximum antenna Gain (dBi)	DG(1SS) (dBi)	DG(2SS) (dBi)	DG(3SS) (dBi)	DG(4SS) (dBi)
2462	4.49	5.81	4.49	4.49	4.49
5180	4.06	6.00	4.06	4.06	4.06
5320	4.73	6.42	4.73	4.73	4.73
5500	3.35	6.99	3.35	3.35	3.35
5825	3.51	6.30	3.51	3.51	3.51

Note:

The maximum antenna Gain is the max value of all antennas.

Directional Gain (2SS) = Directional Gain(1SS) -3dB, refer to KDB662911D01(F)(2)(e)(ii)

Directional Gain (3SS) = Directional Gain(1SS) -4.77dB, refer to KDB662911D01(F)(2)(e)(ii)

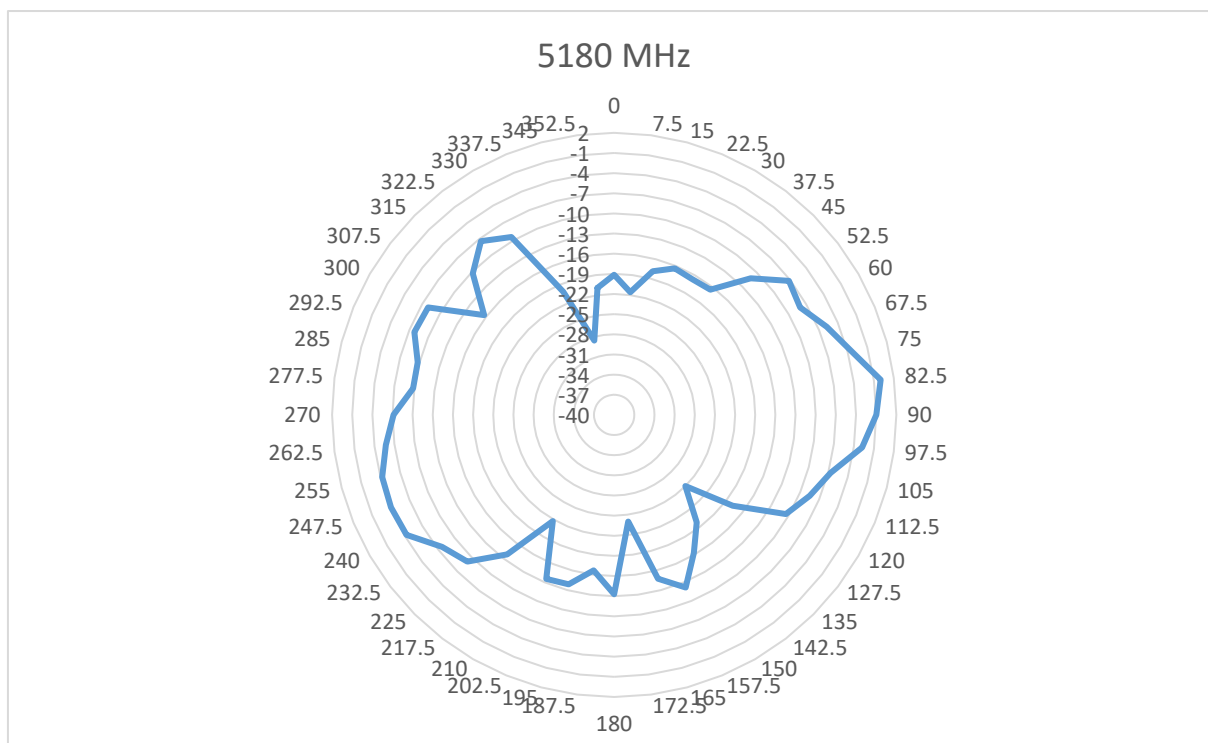
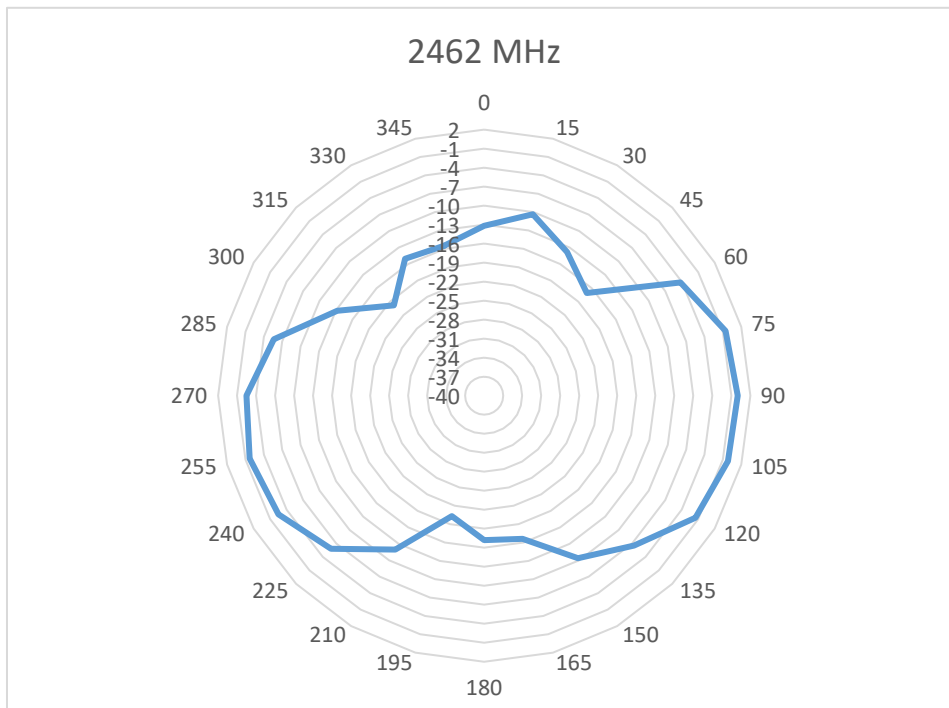
Directional Gain (4SS) = Directional Gain(1SS) -6.77dB, refer to KDB662911D01(F)(2)(e)(ii)

If directional gain is less than maximum antenna Gain, use maximum antenna Gain as directional gain.

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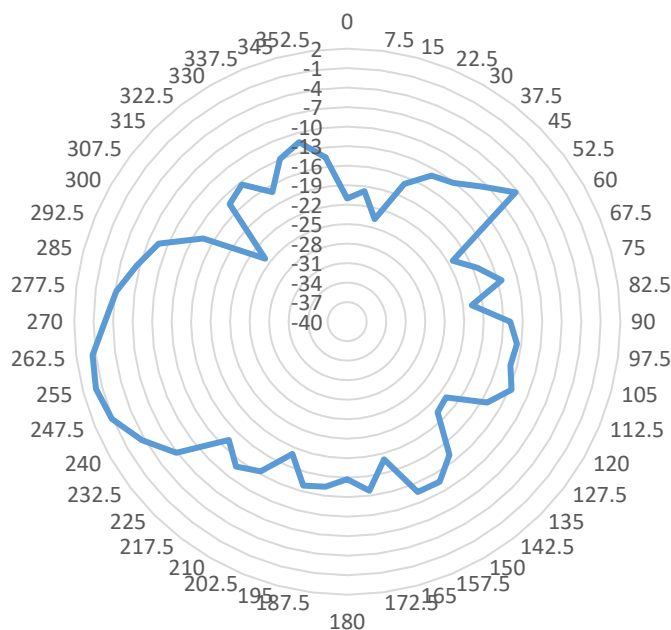
Worst Angle Plot:



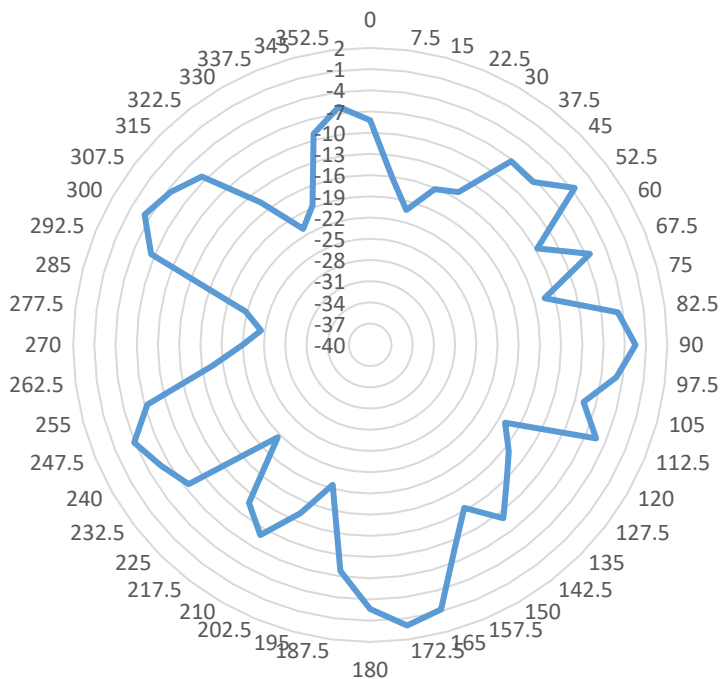
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5320 MHz

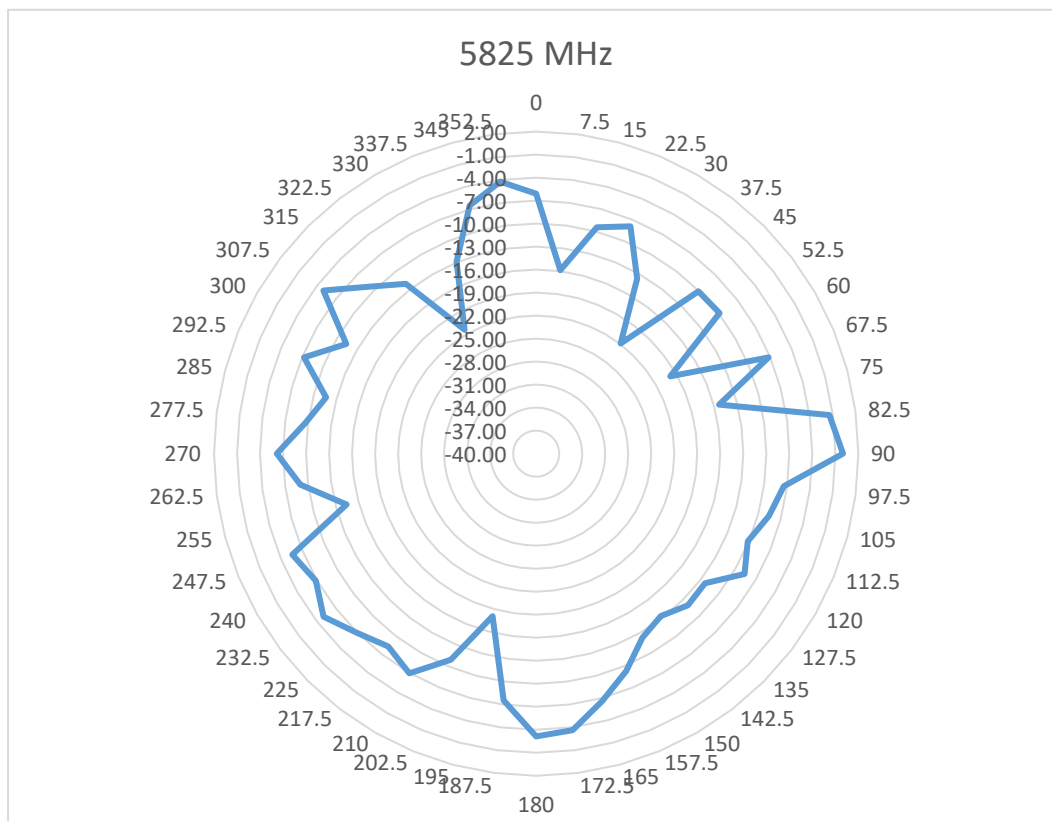


5500 MHz



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4 APPENDIX 1:

802.11be20, Frequency: 2462MHz, Polarization: H													
Theta/Phi	0	15	30	45	60	75	90	105	120	135	150	165	180
0	22.28	24.29	19.53	6.15	15.79	14.74	2.14	9.59	16.47	18.37	20.69	17.45	20.42
15	25.13	20.76	13.76	11.76	15.38	18.27	19.06	14.59	11.82	15.96	22.52	23.86	22.95
30	21.65	12.79	14.18	17.32	20.47	19.56	16.53	16.76	12.58	20.61	22.52	27.87	26.41
45	18.37	22.51	19.56	11.4	22.64	22.91	16	13.73	19.85	20.63	27.38	29.74	30.43
60	31.22	27.71	28.47	29.77	28.12	24.36	18.05	17.31	25.9	28.57	30.19	31.07	32.82
75	34.91	34.77	33.84	32	29.15	26.57	21.42	14.74	24.14	28.79	31.08	33.49	35.09
90	35.46	35.33	34.82	33.48	31.27	27.11	19.12	9.03	23.69	28.89	32.41	34.72	35.36
105	35.31	34.35	31.94	29.32	27.05	23.08	14.68	17.84	23.03	25.89	30.58	32.68	33.73
120	33.98	34.22	30.33	26.14	27.32	26.87	18.76	19.59	23.16	16.59	25.06	27.9	26.36
135	28.92	25.25	29.19	26.12	24.08	24.14	19.79	7.36	14.04	13.42	21.42	20.37	19.54
150	25.08	13.74	23.13	21.51	20.26	19.69	11.09	17.74	21.51	21.27	20.66	21.17	20.53
165	18.86	12.55	12.96	10.45	16.39	16.72	12.15	11.82	17.78	21.23	20.34	21.23	24.25
180	18.27	19.17	18.45	18.78	18.38	18.86	19.03	16.21	5.2	8.36	9.73	16.64	20.46
195	15.14	18.93	17.93	19.62	22.7	21.57	17.97	20.24	18.49	10.66	12.77	7.46	20.13
210	23.51	22.25	23.55	24.47	18.38	9.59	17.86	22.45	20.95	13.56	12.99	18.34	22.7
225	29.64	29.3	30.06	29.7	25.68	18.19	19.41	24	24.67	22.47	19.57	14.51	17.6
240	32.96	32.8	32.01	30.45	26.95	19.83	14.01	23.51	25.62	27.78	27.68	26.05	22.82
255	33.77	33.11	32.07	29.02	24.5	11.23	20.75	26.71	29.62	30.76	30.71	30.62	29.6
270	32.98	32.08	30.75	28.59	25.27	18.8	16.28	23.3	27.83	30.37	31.95	32.83	32.97
285	29.84	28.93	28.23	25.74	23.4	14.31	13.99	23.73	27.71	30.46	32.01	33.31	33.34
300	22.24	23.49	24.82	24.1	22.39	19.91	17.1	22.46	26.98	29.41	31.15	31.72	32.22
315	15.62	11	16.9	18.29	21.82	20.73	15.43	21.07	25.04	25.81	26.37	26.77	29.15
330	20.41	20.31	22.1	4.84	20.6	22.36	20.52	20.7	23.1	21.53	14.46	20.38	21.74
345	19.94	23.44	23.53	10.48	16.83	20.35	19.34	17.57	18.78	14.52	17.53	17.38	22.01
360	23.14	24.31	19.15	6.29	15.73	15.06	5.94	11.5	17.42	18.79	20.82	17.67	20.31

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802.11be20, Frequency: 2462MHz, Polarization: V													
Theta/Phi	0	15	30	45	60	75	90	105	120	135	150	165	180
0	25.31	11.43	13.2	16.63	18.65	16.42	15.22	12.48	12.36	20	17.15	14.68	13.79
15	14	8.68	16.42	18.6	13.62	10.07	16.13	21.78	22.99	23.71	22.77	19.86	4.8
30	12.18	15.32	19.91	12.42	15.55	8.75	14.61	20.18	22.3	23.89	25.03	21.21	6.31
45	11.87	7.01	14.78	17.05	9.51	4.98	10.68	7.68	18.2	19.02	19.21	18.24	16.91
60	18.28	11.05	16.17	18.83	19.83	14.21	9.91	14.35	14.68	17.98	18.68	16.49	16.63
75	21.17	17.76	10.24	10.5	14.23	20.02	21.51	22.39	24.64	23.19	20.86	20.18	19.15
90	20.67	18.32	17.57	17.85	18.7	20.43	21.12	21.69	23.15	22.96	22.98	22.26	21.49
105	15.62	11.31	10.9	9.73	10.69	14.93	18.4	21.7	20.03	17.52	18.7	18.47	15.93
120	16.69	18.47	15.84	10.58	18.49	20.75	24.51	25.54	23.07	11.89	16.54	18.86	16.59
135	11.1	17	20.08	8.25	21.66	22.28	23.77	22.07	20.75	21.02	22.87	18.75	15.14
150	5.84	4.54	18.5	17.29	20.84	21.76	20.14	19.86	23.51	24.36	21.46	19.41	14.3
165	13.49	5.72	17.03	16.13	13.86	18.7	17.13	20.49	21.17	17.81	20.73	16.26	19.47
180	15.53	16.78	8.24	17.65	18.85	12.31	12.95	18.22	17.24	6.04	11.27	4.92	19.24
195	4.99	16.42	15.34	20.96	24.36	22.33	19.83	11.75	7.63	7.73	15.95	13.85	11
210	10.56	12.26	20.06	20.5	22.07	15.74	16.98	14.41	13.55	15.34	16.39	9.58	5.06
225	12.2	13.3	17.9	17.76	14.11	9.88	6.58	8.43	0.85	3.26	12.77	14.71	17.41
240	10.99	5.32	12.67	15.4	16.13	14.32	16.23	16.08	18.52	19.1	17.64	16.82	15.27
255	7.1	8.62	11.66	13.51	11.75	13.81	9.32	14.45	12.57	10.92	6.31	3.24	5.26
270	4.33	8.41	12.89	14.01	17.04	16.84	18.78	18	15.77	14.97	16.56	13.84	7.57
285	8.1	7.97	10.25	16	17.63	20.99	21.54	23.59	24.47	23.19	21.74	18.15	8.19
300	12.53	14.85	18.62	19.97	19.36	20.5	19.79	18.78	20.53	21.01	22.71	17.96	10.91
315	13.4	19.35	23.4	23.59	22.38	19.78	15	7.27	13.55	17.06	20.95	12.17	17.73
330	9.32	20.33	24.03	22.76	21.95	15.55	13.41	18	16.95	14.69	18.29	12.08	7.93
345	16	12.16	20.46	20.87	22.42	20.09	14.53	10.24	16.72	15.22	12.34	10.42	10.66
360	17.15	11.62	12.79	15.81	18.34	17.71	14.31	14.56	13.21	19.34	17.79	14.23	14.04

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802.11b20, Frequency: 5180MHz, Polarization: H																																			
Theta/Phi	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150	157.5	165	172.5	180										
0	22.93	23.58	21.37	19.93	17.38	11.23	-0.25	12.2	16.16	14.88	-9.58	14.23	16.27	12.76	7.35	7.03	7.44	11.33	16.04	19.47	20.3	21.96	22.21	23.74	22.14										
7.5	22.29	21.68	19.66	17.44	15.23	9	0.9	7.83	11.77	13.9	7.99	13.19	14.77	15.33	8.88	6.57	2.4	9.57	15.1	19.54	20.23	22.34	22.18	22.35	21.37										
15	17.87	17.71	12.43	11.77	11.56	7.07	2.53	1.78	7.52	9.98	9.88	2.87	12.27	15.5	14.92	9.82	2.21	8.31	13	18.05	18.88	19.03	20.06	16.48	20.53										
22.5	6.77	3.06	-0.82	11.99	12.45	7.25	1.79	-0.83	7.56	10.54	9.78	7.08	7.18	14.02	13.6	12.92	4.47	6.18	12.21	12.23	14.29	12.99	13.44	9.6	16.1										
30	14.04	10.47	11.34	13.04	9.64	2.99	3.07	7.65	9.49	10.03	11.93	11.45	7.33	8.16	11.09	8.05	3.06	0.8	9.15	12.68	7.46	8.42	4.44	7.73	10.7										
37.5	17.72	16.9	10.74	9.81	8.7	8.09	0.48	7.72	12.53	13.3	13.53	12.2	9.94	8.15	8.42	7.59	4.82	6.74	11.86	12.75	15.02	8.28	10.88	12.12	11.72										
45	15.32	13.58	14.73	8.81	6.71	14.17	11.45	2.28	8.91	11.91	11.14	7.98	6.32	8.84	10.91	9.42	-3.98	9.38	9.66	8.11	10.2	13.63	18.37	16.1	15.94										
52.5	15.24	13.94	3.75	10.14	14.08	12.5	7.84	9.51	8.95	5.98	0.1	-1.23	4.71	10	12.1	12.67	11.11	7.17	4.18	8.3	12.97	14.41	13.81	19.65	20.91										
60	6.64	6.61	2.15	7.39	9.66	7.82	11.8	13	12.19	7.18	1.39	-1.57	6.68	9.06	12.28	13.51	15.07	13.42	10.26	10.14	11.81	15.35	16.92	11.62	5.6										
67.5	14.56	13.7	10.77	13.42	16.77	16.57	16.04	14.04	8.85	2.03	1.01	6.21	10.3	13.36	15.64	17	17.46	18.88	17.3	15.51	13.59	16.57	18.9	19.64	16.98										
75	22.11	22.47	21.55	21.24	19.84	17.69	16.67	15.34	13.2	11.27	6.82	-0.17	5.89	10.93	14.57	17.58	18.47	19.15	20.71	21.86	22.93	23.33	21.85	18.85	17.82										
82.5	24.77	25.16	24.91	24.74	24.3	23.26	21.91	20.58	18.62	15.84	12.2	3.52	0.74	11.98	15.53	18.47	21.25	22.93	23.65	23.96	24.21	23.71	23.44	24.23	24.56										
90	25.33	25.21	24.72	24.00	23.56	23.06	22.17	20.76	19.12	17.29	13.94	10.22	5.96	9.79	14.58	18.11	19.38	19.67	20.84	21.46	22.25	22.61	23.89	24.88	24.88										
97.5	23.36	23.3	22.96	22.58	22.31	22.62	21.76	20.66	18.91	15.82	12.48	9.06	9.38	12.03	14.46	15.07	16.29	18.4	19.52	19.36	19.33	19.66	20.33	20.29	18.41										
105	16.43	17.67	18.64	18.77	19.2	19.97	19.31	17.99	15.21	12.53	8.62	7.34	-1.53	-0.14	7.36	11.77	15.02	16.43	16.4	14.65	13.43	12.21	11.35	8.04	8.3										
112.5	13.00	13.72	14.11	13.82	10.55	13.23	15.35	14.97	12.12	10.03	10.77	10.4	10.02	10	11.41	12.62	12.49	11.07	8.63	11.14	13.31	13.69	13.87	10.64	4.9										
120	20.74	20.06	16.12	14.33	15.6	8.07	10.79	15.08	14.18	10.13	6.5	9.1	6.6	7.38	8.57	9.76	10.96	8.25	11.99	14.8	12.35	7.89	14.17	16.27	18.27										
127.5	21.55	20.77	18.39	16.85	12.15	12.17	11.11	11.77	12.46	10	1.03	-0.36	-3.18	3.74	5.75	8.68	7.14	-2.37	2.43	3.37	13.57	17.57	18.21	18.82	15.97										
135	17.67	17.11	16.83	14.16	11.9	9.25	13.23	13.24	10.12	-1.72	-4.81	-0.39	1.82	10.96	13.64	13.12	7.24	-1.27	3.54	10.76	13.93	13.61	12.4	12.29	15.87										
142.5	12.24	14.74	11.45	7.77	6.52	9.9	11.92	9.96	4.77	0.03	4.05	1.48	1.13	8.98	11.7	9.4	4.07	8.07	9.44	9.9	8.2	3.77	0.62	5.24	12.39										
150	14.61	11.37	7.22	0.88	1.16	4.57	8.13	10.21	9.65	8.15	0.41	9.14	5.59	9.85	10.66	2.88	1.98	8.23	8.82	2.3	1.48	1.07	7.71	14.13	10.95										
157.5	17.41	17.48	14.42	12.21	12.52	10.95	5.58	4.75	12.23	10.62	-0.32	9.43	11.8	12.42	10.81	4.12	0.65	9.14	7.89	12.5	8.53	14.93	18.42	16.89	19.08										
165	20.58	21.51	21.54	20.40	17.38	15.93	15.57	8.12	9.49	6.45	4.04	9.24	4.95	13.83	10.54	0.54	9.46	11.58	8.33	16.44	17.99	18.85	21.82	22.39	20.51										
172.5	21.61	23.23	23.41	22.87	19.73	16.93	16.31	11.61	9.33	4.55	-0.66	-1.87	10.14	12.18	10.67	5.27	11.12	13.38	7.86	17.6	20.54	21.67	21.76	24.21	21.66										
180	21.26	20.38	22.07	20.88	19.04	15.36	13.77	8.89	7.61	5.19	2.73	3.82	6.74	11.12	10.34	8.52	6.29	3.51	7.83	14.32	19.26	21.84	20.59	22.22	22.55										
187.5	16.30	11.86	14.38	13.05	11.56	11.44	12.52	9.38	-2.25	1.73	7.33	7.52	3.71	8.48	12.41	10.9	5.37	-1.59	3.56	9.17	12.42	16.82	18.53	16.72	18.06										
195	10.50	12.73	8.13	9.85	9.54	10.19	14.08	13.95	6.19	3.26	10.84	11.26	4.09	0.09	2.99	7.24	8.43	7.47	2.35	9.92	13	14.35	16.4	7.35	14.09										
202.5	16.47	16.59	16.92	16.33	15.1	15.82	13.91	10.54	8.04	5.66	11.69	10.86	7.93	9.44	11.19	11.23	11.44	12.93	11	17.16	17.94	19.43	19.53	18.06	20.8										
210	19.61	18.85	17.23	16.66	17.38	18.31	16.12	7.07	6.65	9.91	8.16	-1.18	4.51	10.14	8.9	6.04	9.92	13.95	16.35	18.55	19.66	21.94	22.62	23.5	24.47										
217.5	19.46	17.55	17	15.17	16.41	17.79	16.3	10.2	-0.54	10.82	11.79	8.57	-2.26	4	5.71	5.29	3.65	8.67	14.4	17.44	19.68	22.95	24.32	23.96	24.75										
225	15.76	16.56	13.96	8.77	15.73	16.6	11.18	7.98	9.99	11.97	11.8	6.43	0.14	10.59	13.78	12.77	5.25	4.89	11.09	14.54	18.2	19.92	21.28	21.75	22.12										
232.5	8.86	8.19	7.87	4.92	6.48	12.49	11.76	11.74	13.51	14.52	12.4	7.54	2.64	8.28	9.64	10.36	10.96	11.05	8.55	7.98	10.39	11.03	12.5	16.01	18.56										
240	2.59	2.34	3.66	7.99	9.73	14.73	13.9	14.07	14.29	14.3	12.73	10.01	1.27	3.86	10.38	12.85	14.51	14.7	14.31	13.9	12.52	10.5	3.67	2.5	4.35										
247.5	10.46	13.26	13.94	13.40	14.59	15.67	17.15	17.11	16.5	15.11	13.32	9.89	3.33	-2.58	6.4	10.61	14.67	15.7	16.25	17.05	17.25	18.37	18.69	19.29	1.8										
255	15.80	17.27	17.9	18.29	18.09	16.65	16.22	15.97	14.65	14.35	11.75	9.8	3.57	1.95	3.81	10.12	11.22	14.73	16.99	18.01	18.58	18.45	19.52	19.2	17.68										
262.5	18.72	18.78	19.55	19.93	19.71	17.4	17.23	16.01	15.25	12.84	12.02	9.2	5.73	5.69	2.48	6.68	10.24	10.75	13.03	13.83	14.57	14.4	15.23	15.39	15.28										
270	19.29	18.81	19.59	19.74	19.41	17.3	17.02	16.91	15.14	15.07	12.56	11.83	9.29	7.21	5.1	0.41	2.72	6.84	9.26	11.76	13.1	14.67	14.27	13.27	14.12										
277.5	18.56	18.05	18.79	19.69	19.66	17.95	18.03	17.98	17.18	15.82	15.55	13.7	12.31	10.14	7.32	2.56	-0.07	-0.28	4.13	6	11.08	12.93	12.96	9.65	14.1										
285	15.80	14.55	15.84	17.00	17.21	15.24	15.76	15.62	16.15	15.86	15.61	15.2	13.82	12.69	11.03	9.15	6.72	3.87	7.1	8.64	12.16	13.26	9.35	6.13	14.16										
292.5	6.10	5.07	6.19	6.21	6.15	5.26	9.6	12.6	13.92	14.16	14	12.88	11.62	10.47	10.05	11.22	12.23	12.73	11.06	11.29	12.56	12.14	4.44	2.36	9.35										
300	14.30	16.17	15.3	14.14	11.95	5.16	0.47	8.66	12.55	13.98	14.58	13.06	11.67	9.17	10.26	9.09	11.78	13.14	13.54	10.37	9.61	6.5	-1.88	10.15	9.2										
307.5	20.28	20.77	21.18	19.02	16.41	13.68	1.12	7.06	11.48	12.88	13.1	12.34	10.72	8	9.55	10.36	10.92	10.3	10.28	9.68	9.39	9.44	13.65	16.2	14.62										
315	23.58	22.11	21.71	19.78	17.69	15.94	11.53	1.9	9.08	13.26	13.59	12.84	11.6	10.92	11.69	12.13	10.49	5.17	9.42	12.01	12.21	17.38	17.13	18.37	19.01										
322.5	23.13	20.64	20.28	17.69	16.14	15.23	16.84	12.08	2.58	8.52	10.99	8.13	6.74	10.84	13.18	10.53	7.23	4.46	9.01	8.45	15.71	17.71	18.52	18.3	20.45										
330	19.48	17.48	16.81	10.68	10.65	11.59	16.56	14.63	9.08	5.05	7.93	5.78	-1.71	4.64	10.57	7.49	0.28	-1.84	2.09	9.33	14.89	17.89	16.29	19.46	18.35										
337.5	10.59	13.95	14.37	14.39	8.32	8.87	14.32	16.61	12.74	7.92	10.69	9.83	6.67	5.21	5.96	-0.41	-3.57	6.04	9.02	14.81	15.97	17.32	16.23	12.58	14.71										
345	18.60	18.64	18.27	17.87	16.02	10.84	10.71	15.22	15.19	11.49	7.47	9.96	8.99	4.82	2.22	3.35	7.48	8.54	9.47	17.5															

802.11b20, Frequency: 5180MHz, Polarization: V																									
Theta/Phi	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150	157.5	165	172.5	180
0	12.94	6.18	8.39	8.79	7.96	11.64	13.52	11.62	6.09	7.69	12.62	11.45	6.92	4.63	2.42	10.04	13.81	8.85	8.95	8.61	1.68	11.51	11.3	12.77	11.57
7.5	11.06	2.97	5.64	8.65	10.37	12.88	14.64	11.95	0.26	4.61	9.87	9.91	4.48	8.07	5.49	10.36	10.7	11.11	6.22	-2.26	3.9	10.41	11.05	10.24	11.81
15	5.49	0.85	6.86	9.23	9.45	13.88	13	8.37	-1.19	6.49	8.48	9.87	8.2	7.67	8.88	6.63	9.87	5.73	0.91	-4.91	2.86	2.98	8.2	10.19	9.69
22.5	4.03	2.4	3.04	5.41	6.94	11.33	8.85	5.88	0.99	5.82	11.95	10.69	9.66	8.28	3.94	10.43	11.74	10.2	-2.34	7.04	1.67	3.01	0.23	2.15	3.13
30	-1.16	-1.04	-1.53	-1.19	1.77	8.77	8.51	2.28	2.13	8.31	10.89	11.81	9.37	9.26	5.5	1.67	5.17	9.49	1.62	8.57	9.89	9.86	6.9	-1.83	0.27
37.5	1.9	5.4	0.42	6.41	7.86	7.14	1.43	2.57	6.81	9.05	9.04	8.74	9.57	5.36	7.7	8.12	9.98	10.18	5.93	8.25	10.21	6.5	7.08	7.72	4.52
45	5.65	9.15	9.95	9.55	4.08	-1.09	2.44	5	8.84	14.97	15.03	14.26	14.81	14.8	12.07	12.66	12	11.11	9.55	6.49	-4.06	-1.28	-1.89	5.4	4.81
52.5	-3.11	9.43	8.99	2.9	1.43	6.17	7.2	11.01	13.44	17.25	17.73	18.79	18.86	18.76	17.17	16.23	15.38	14.74	14.84	14.69	13.65	12.35	5.93	-2.13	-0.25
60	5.58	4.79	7.02	7.62	8.85	11.09	13.16	14.51	12.5	13.28	14	15.55	18.04	17.91	17.93	16.11	15.82	14.43	10.97	8.75	13.91	16.42	15.77	11.46	5
67.5	11.69	4.16	7.66	10.06	11.56	13.31	14.93	16.98	17.92	19.48	20	20.25	20.32	19.76	19.06	18.14	16.25	16.31	13.96	9.14	6.93	0.38	0.43	6.37	6.78
75	10.69	7.32	7.68	11.27	14.17	16.51	18.58	20	21.15	22.15	22.43	23.06	22.65	22.36	21.42	21.04	19.05	18.61	18.56	18.51	17.04	15.36	12.04	8.7	8.16
82.5	9.25	11.77	14.48	17.06	19.16	20.72	21.74	22.77	23.58	24.59	25.05	25.73	26.06	25.82	25.58	25.11	24.67	23.98	22.39	20.7	17.64	13.25	9.18	2.7	1.95
90	2.67	9.44	13.54	16.44	18.92	20.45	22.07	23.02	23.84	24.06	24.35	24.78	25.08	24.82	24.93	24.63	23.62	21.92	21.13	18.88	16.32	13.52	8.6	2.78	3.92
97.5	3.47	6.26	9.85	13.27	16.45	19.01	20.91	21.73	22.57	21.96	22.94	23.06	23.3	22.41	21.66	20.62	19.52	19.25	17.57	15.32	11.92	5.47	4.43	-0.31	0.19
105	5.06	2.4	2.68	7.45	13.01	15.59	17.17	17.63	18.82	18.91	20.07	20.15	19.41	17.78	15.36	11.85	10	8.58	9.63	7.59	6.36	10.39	9.75	8.04	7.09
112.5	-1.22	-1.86	2.33	4.73	7.54	9.62	10.63	11.25	14.16	15.31	16.29	16.42	17.58	16.43	15.7	12.6	9.29	4.58	2.03	7.02	8.44	6.19	3.65	1.28	4.58
120	2.23	7.03	8.15	5.13	-3.63	-1.09	3.67	12.31	14.34	12.77	6.1	10.79	15.59	15.94	14.47	12.05	10.06	6.2	10.12	12.67	10.8	6.82	-0.95	6.12	7.55
127.5	8.62	12.23	11.32	8.21	-0.04	1.98	-0.3	10.34	14.35	13.33	8.06	-1.21	8.3	9.65	6.36	3.15	10.28	13.64	12.99	9.15	10.53	12.18	5.91	0.92	5.79
135	10.2	10.64	9.67	9.5	3.95	1.42	5.88	8.24	8.57	9.9	7.35	0.25	1.06	4.07	7.4	11.1	11.18	8.34	8.35	11.8	12.59	8.22	3.95	5.26	8.41
142.5	0.09	9.99	5.79	7.4	3.81	6.91	10.03	3.71	5.68	5.16	-0.17	8.71	6.25	7.44	8.26	4.56	5.69	3.36	6.76	2.65	4.23	7.14	2.23	3	4.34
150	9.91	9.96	12.22	9.33	9.74	11.18	4.62	7.16	2.16	8.51	12.41	11.31	9.8	2.99	9.01	11.46	10.57	9.54	6.12	3.02	2.28	8.46	7.27	5.18	-4.07
157.5	13.83	13.13	15.35	12.84	15.3	12.9	11	13.39	9.49	5.89	5.19	11.41	13.88	12.72	5.75	4.52	0.31	6.57	6.57	10.67	11.53	12.65	13.6	8.92	2.14
165	12.17	11.26	15.04	12.9	14.82	14.23	11.15	15.8	13.56	11.44	5.07	4.18	11.31	12.55	13.52	10.86	-1.86	6.44	6.77	13.46	12.14	13.21	12.62	0.72	-3.72
172.5	10.31	-0.01	9.01	7.33	13.03	7.96	10.24	14.53	11.18	0.12	4.93	4.72	2.09	5.74	10.63	8.66	7.81	7.39	-4.26	10.82	10.24	5.27	4.57	-4.44	3.24
180	12.1	7.18	2.08	1.75	5.27	-1.56	0.32	5.11	5.75	-3.83	8.99	13.04	12.76	13.11	11.7	8	5.81	-3.94	6.48	9.11	-3.83	2.13	-1.06	4.86	3.44
187.5	11.92	9.46	4.02	3.31	2.12	7.94	-2.39	8.99	8.88	5.99	1.18	5.87	9.41	8.15	4.58	6.04	8.48	5.48	-4.55	-2.78	3.15	4.04	-3.9	4.01	7.77
195	8.8	1.59	7.45	0.16	9.96	10.03	-2.15	2.92	-3.03	6.59	9.97	11.49	12.19	9.44	11.17	10.98	6.1	4.69	5.13	-0.64	-1.46	2.22	2.64	4.32	4.78
202.5	7.6	3.37	10.02	1.31	11.07	5.42	-2.16	4.34	11.23	12.09	9.25	12.1	12.48	9.05	3.12	7.88	5.37	7.67	9.41	1.93	9.5	10.04	3.87	8.43	5.31
210	6.16	8.6	9.73	7.92	6.18	0.82	5.47	9.77	10.5	9.04	0.64	0.84	4.32	9.67	9.4	7.27	5.53	10.08	11.81	12.93	12.11	11.31	9.71	8.9	8.9
217.5	9.85	12.44	14.52	12.27	9.3	8.95	11.41	13.05	12.2	9.8	8.53	7.78	12.24	13.38	12.52	9.51	4.43	8.48	8.82	10.54	13.24	11.61	8.71	10.55	9.32
225	9.22	11.47	12.96	13.63	11.49	11.73	11.47	12.71	15.31	14.93	14.36	15.67	16.97	17.14	15.19	13.75	8.84	-1.2	5.13	9.59	10.04	8.53	9.37	8.58	4.37
232.5	3.21	1.72	3.43	4.78	8.69	13.67	16.38	16.87	15.22	12.67	14.54	16.91	18.35	17.65	17.19	16.29	13.75	10.45	3.51	-0.9	2.54	2.76	-0.27	-0.18	2.7
240	6.71	8.6	10.1	10.71	11.1	14.25	15.79	16.16	15.28	14.74	18.6	20.15	21.77	22.04	22.07	21.6	19.73	18.27	15.54	12.43	11.06	10.86	9.76	7.9	6.62
247.5	9.12	8.88	8.98	10.92	12.17	12.27	11.07	12.35	13.77	16.73	20.17	21.76	22.03	22.34	21.66	21.21	21.32	19.72	18.27	17.34	15.73	14.47	12.96	11.21	9.25
255	7.98	5.13	0.26	-0.96	6.51	9.45	11.85	13.79	15.56	16.58	19.95	20.63	21.83	21.87	22.15	22.31	21.29	21.16	20.43	19.48	18.15	16.45	14.43	12.52	10.18
262.5	10.23	6.99	3.54	2.59	6.7	9.21	12.11	14.37	16.16	17.36	19.41	20.09	20.35	20.23	20.54	20.43	21.26	20.16	19.39	18.83	17.4	16.08	15.07	14	11.43
270	9.03	4.93	-0.65	-3.7	0.09	4.59	7.65	10.13	12.19	13.67	16.87	17.92	18.9	18.98	18.88	19.06	18.65	19.14	19.02	18.61	18.37	17.23	15.82	14.27	12.26
277.5	8.23	5.36	4.2	4.51	5.22	7.35	9.75	10.76	11.9	12.62	14.89	14.92	16.26	16.09	16.94	16.89	16.38	14.42	13.77	12.29	14.43	13.17	12.3	11.78	11.42
285	10.03	7.85	8.17	7.66	6.83	6.66	7.2	9.33	10.96	12.92	15.76	16.89	16.33	16.11	14.57	14.17	14.87	12.99	9.37	2.23	3.33	4.64	10.28	12.04	9.91
292.5	9.23	6.86	6.54	6.45	6.15	6.38	8.39	9.98	11.34	12.65	16.08	16.9	18.26	18.84	18.64	18.29	16.49	14.08	8.08	4.08	2.49	10.32	13.17	11.05	8.5
300	0.85	3.05	0.1	2.38	3.87	8.17	7.78	6.27	-1.61	6.74	14.26	17.31	18.05	18.05	18.71	17.56	17.36	15.27	10.07	6.44	7.21	10.2	9.9	7.22	7.29
307.5	4.37	4.69	2.29	10.98	14.63	15.36	13.48	11.72	6.99	0.17	5.67	6.77	10.46	10.93	14.12	12.31	11.96	8.74	6.38	8.52	10.34	9.12	6.56	5.17	8.08
315	7.7	12.05	13.3	12.59	16.34	15.77	14.2	13.02	9.26	7.37	10.51	14.62	15.82	16.63	13.1	9.02	8.64	5.37	8.21	10.64	10.15	12.53	9.96	-0.79	10.15
322.5	12.25	12	14.12	12.74	13.77	13.29	12.5	10.39	9.75	8.63	11.53	16.39	18.65	18.77	17.15	15.08	11.28	9.77	8.55	10.51	11.58	11.83	8.47	1.94	1
330	6.48	10.2	8.65	9.82	9.59	10.34	13.03	15.53	14.66	11.79	7.2														

802.11b20, Frequency: 5320MHz, Polarization: H																																				
Theta/Phi	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150	157.5	165	172.5	180											
0	14.36	15.85	14.71	15.47	16.25	15.85	14.98	12.86	12.06	12.78	12.65	12.67	12.76	11.22	2.57	12.81	13.36	15.13	8.77	16.15	16.39	17.84	16.1	18.15	15.77	15.81										
7.5	11.82	14.2	14.27	14.21	15.51	13.62	12.69	11.72	14.39	13.74	10.93	8.71	12.54	15.45	12.75	10.43	14.41	14.31	11.63	11.91	14.28	11.28	7.29	10.98	11.81	11.89										
15	16.21	17.82	16.56	15.9	14.28	10.52	5.94	9.29	13.1	13.12	9.51	2.97	13.66	15.52	13.52	8.93	10.49	14.21	17.76	17.26	18.28	16.2	16.89	13.85	14.59	14.51										
22.5	20.12	20.89	19.92	19.27	17.41	15.27	8.09	1.05	7.56	10.69	8.79	-2.27	8.31	12.07	16.43	3.03	2.06	14.41	18.93	19.82	20.94	21.73	20.89	20.41	20.08	20.32										
30	22.6	23.05	22.24	22.3	20.82	19.34	13.36	6.86	4.47	10.45	11.65	8.93	9.53	12.89	16.08	10.48	-2.77	15.65	14.84	19.74	22.11	22.26	23.67	23.09	23.32	23.38										
37.5	23.29	22.93	23.19	23.01	21.37	20.18	15.05	3.81	7.96	9.95	5.76	-0.21	10.46	13.29	16.38	15.22	11.45	6.13	10.7	15.76	20.15	22.14	23.59	24.59	24.4	24.41										
45	20.37	20.97	21.06	21.03	18.91	15.32	10.39	4.64	9.36	9.91	7.33	0.4	8.83	13.61	15.02	15.94	16.47	13.21	9.21	10.66	15.23	19.07	23.3	21.19	22.22	22.22										
52.5	15.32	14.4	9.82	11.52	14.62	10.55	5.74	7.76	9.46	10.67	6.84	3.5	2.44	8.94	15.51	15.67	16.03	12.24	14.28	10.32	10.44	9.11	13.93	16.7	17.32	17.32										
60	13.81	12.24	8.83	6.12	3.69	6.3	7.33	6.58	5.03	6.36	8.69	6.88	3.75	1.28	6.36	8.36	12.69	12.5	8.97	9.31	10.93	0.05	11.07	11.54	8.8	8.8										
67.5	15.41	15.3	15.81	15.74	12.98	8.32	1.44	4.08	7.37	7.8	6.6	5.84	5.34	3.42	6.52	9.29	10.1	13.46	13.28	14.17	16.05	16.85	15.61	14.26	16.18	16.18										
75	12.69	11.01	7.8	2.71	4.3	7.6	10.02	11.7	11.6	11.95	12.36	11.65	10.42	10.13	7.92	9.33	9.82	8.49	13	14.94	15.01	14.88	17.51	18.37	17.94	17.94										
82.5	7.32	7.02	6.21	3.71	2.29	0.4	4.35	5.51	8.08	4.48	5.96	5.88	7.24	5.52	7.59	5.67	9.66	12.95	11.25	10.19	10.73	13.27	14.67	13.96	10.8	10.8										
90	9.63	6.93	10.4	12.7	7.6	9.58	9.5	9.31	8.94	10.66	9.89	9.74	8.59	9.22	8.43	10.96	11.39	8.55	5.62	-2.08	2.4	4.09	7.42	5.79	3.68	3.68										
97.5	15.68	14.69	15.21	14.23	12.92	12.73	11.4	8.7	6.36	5.54	-1.86	-0.24	-1.14	-0.7	5.35	3.22	2.03	2.73	4.44	6.55	6.91	9.27	11.75	12.23	12.22	12.22										
105	17.9	16.91	17.3	17.42	16.26	15.02	14.04	13	11.62	11	10.49	11.07	0.1	7.1	2.56	7.28	10.85	13.44	13.62	13.22	13.44	13.65	13.85	15.02	16.15	16.15										
112.5	12.33	13.13	14.07	15.6	14.71	12.32	14.28	14.58	13.36	11.47	10.87	10.16	2.08	5.83	9.34	11.81	13.21	14.19	14.48	14.15	14.11	13.2	14.85	15.19	12.2	12.2										
120	16.02	13.75	9.66	-0.43	5.18	5.84	12.81	15.19	12.08	4.65	5.28	4.61	5.49	11.16	11.48	12.46	11.54	10.52	12.38	15.77	14.46	15.41	16.87	14.29	14.11	14.11										
127.5	22.29	20.61	18.83	18.31	8.54	11.72	10.17	9.12	9.54	3.33	4.98	7.7	8.11	10.01	7.11	7.08	13.46	14.04	12.26	15.3	14.13	17.97	19.54	19.77	21.24	21.24										
135	23.9	22.35	22.47	20.67	14.62	14.61	12.45	9.78	9.37	6.1	-1.72	-1.66	7.72	12.97	11.33	12.69	17.09	16.19	10.86	7.31	17.35	21.39	22.83	23.18	23.46	23.46										
142.5	22.58	22.94	22.81	20.26	16.68	17.23	15.33	12.55	11.62	-0.24	5.01	5.35	9.02	14.1	16.58	14.59	16.64	16.01	7.14	14.61	18.81	20.64	22.9	22.15	23.34	23.34										
150	20.24	22.25	22.6	18.62	17.1	16.44	16.48	14.57	13.48	2.98	10.04	16.01	6.34	12.95	13.58	15	10.41	10.88	9.79	13.45	19.1	18.65	20.36	20.52	21.32	21.32										
157.5	15.89	19.48	18.76	16.57	13.83	11.39	14.44	14.69	13.69	10.13	10.89	13.87	12.27	5.25	8.86	11.82	7.74	0.36	10.12	9.03	16.84	18.11	17.62	16	17.47	17.47										
165	11.82	10.82	7.29	6.15	2.09	8.12	9.34	11.05	10.48	8.21	9.68	12.31	11.75	6.35	5.37	11.91	11.93	4.84	6.11	10.83	14.73	16.54	17.84	15.8	13.04	13.04										
172.5	15.34	16.3	18.07	17.46	14.9	11.45	11.44	10.46	2.82	1.38	10.15	12.87	15.11	11.76	8.12	11.33	10.05	7.33	9.81	13.75	17.01	19.8	18.2	18.5	15.98	15.98										
180	18.96	21.02	22.41	21.24	19.29	13.61	13.1	14.62	12.22	4.78	10.92	12.59	12.55	9.99	9.67	7.27	5.41	3.36	14.32	16.94	18.63	20.69	21	18.94	19.3	19.3										
187.5	18.1	21.28	22.12	19.94	18.6	13.49	13.11	12.1	11.06	6.52	7.45	10.99	5.78	4.61	7.92	7.16	3.81	4.36	12.21	16.66	16.84	19.45	20.16	20.25	20.03	20.03										
195	17.75	18.93	18.12	16.31	14.44	13.2	10.04	6.41	9.75	10.53	7.17	10.79	10.34	-0.83	2.43	6.9	2.9	-0.82	5.55	13.13	15.14	16.67	18.91	20.22	20.02	20.02										
202.5	16.68	17.42	13.7	11.44	11.86	12.2	6.34	4.39	3.24	7.95	7.76	1.7	4.55	6.59	7.36	-3.06	0.67	0.51	1.16	6.16	13.52	16.12	16.14	18.2	17.74	17.74										
210	15.29	14.16	8.54	12.56	11.44	10.65	6.11	5.53	8.3	1.53	-1.4	-1.8	-2.03	1.45	-2.35	4.37	3.65	8	5.62	2.95	7.18	8.58	10.01	10.89	10.84	10.84										
217.5	15.45	13.29	13.02	15.24	13.42	10.25	5.4	0.26	5.94	6.28	3.67	1.64	-0.23	-1.47	-1.92	2.24	10.76	12.4	11.5	10.99	9.96	11.28	10.17	11.51	10.85	10.85										
225	17.45	14.83	15.99	16.39	8.95	5.66	11.73	8.43	6.96	10.29	11.06	8.41	-0.09	5.34	6.04	-1.02	4.22	12.15	16.13	17.46	17.5	17.8	18.43	18.76	17.5	17.5										
232.5	16.11	14.02	12.29	7.32	-1.1	6.05	3.6	-2.3	7.53	10.78	11.92	8.35	4.27	7.53	7.7	9.85	2.88	6.42	14.33	16.3	18.27	19.43	19.48	19.51	18.6	18.6										
240	7.48	3.12	0.62	6.74	9.12	12.42	14.62	16.82	15.86	14.63	12.87	7.58	0.45	7.84	13.45	14.72	13.03	9.51	0.31	5.29	11.31	12.77	15.04	13.94	13.13	13.13										
247.5	11.35	12.22	15	17.07	17.02	17.19	17.51	19.22	19.7	18.52	16.34	12.13	4.11	7.33	13.66	15.52	17.03	17.87	17.5	16.91	15.51	15.87	14.51	14.98	14.03	14.03										
255	19.37	20.53	20.82	21.45	21.75	21.83	21.24	20.61	19.64	18.23	16.18	12.05	5.06	7.23	12.22	16.52	19.07	20.24	20.66	20.51	21.32	21.51	22.13	22.66	22.66	22.66										
262.5	23.64	24.13	23.28	23.53	23.38	22.81	22.01	21.06	19.54	18.07	15.19	11.97	6.76	4.3	11.2	14.64	16.9	18.92	21.41	22.44	23.54	23.83	24.25	24.71	25.06	25.06										
270	24.94	24.31	23.79	24.05	23.06	22.76	21.76	20.37	18.9	16.49	14.1	10.51	5.79	4.04	9.46	13.96	16.28	18.42	19.62	20.74	22.29	24.27	22.71	23.33	23.91	23.91										
277.5	22.9	21.88	21.89	21.01	20.33	19.97	19.47	18.65	17.61	16.2	14.09	11.32	4.84	3.84	9.63	12.23	15.54	16.33	17.21	17.03	18.5	18.94	19.44	18.45	19.44	19.44										
285	14.06	11.48	15.22	12.49	13.83	14.25	15.39	14.61	14.86	13.28	11.86	10.71	7.63	1.72	5.74	8.78	10.16	12.38	14.56	14.24	12.37	11.64	10.9	8.66	10.02	10.02										
292.5	12.54	12.25	10.26	9.32	6.97	1.59	2.37	6.37	9.96	12.42	12.58	8.98	8.69	1.02	3.95	8.75	7.61	7.37	3.73	3.68	-2.49	1.5	7.44	9.99	7.85	7.85										
300	18.8	17.83	16.82	16.81	15.76	13.27	8.96	5.89	5.89	9.54	11.91	12.73	12.87	8.86	3.65	0.3	-1.07	6.86	6.42	9.58	13.84	15.16	15.44	15.96	17.05	17.05										
307.5	17.07	17.38	16.5	14.89	15.12	14.02	14.58	13.98	11.19	12.31	14.04	14.11	14.71	11.55	8.14	-0.33	5.68	9.07	12.64	15.09	17.41	17.42	17.48	18.87	18.87	18.87										
315	8.86	9.2	11.5	7.11	9.28	11.8	14.22	14.06	12.22	10.47	12.63	14.27	13.09	10.28	5.07	1.08	7.08	6.84	13.09	14.85	15.49	14.79	16.78	16.67	16.69	16.69										
322.5	10.67	12.07	7.78	5.72	-0.25	-0.72	11.28	13.61	11.02	5.81	5.15	10.78	9.87	5.89	3.04	3.76	10.31	8.98	9.09	10.3	14.32	10.31	12.53	14.26	15.03	15.03										
330	17.47	17.19	16.86	15.14	13.27	11.06	6.05	13.23	15.85	14.96	7.44	0.94	6.2	0.85	2.32	10.08	4.43	8.31	9.02	14.19	15.32	16.73	16.04	16.82	16.82	16.82										

802.11b20, Frequency: 5320MHz, Polarization: V																													
Theta/Phi	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150	157.5	165	172.5	180				
0	10.7	9.4	9.4	11.09	10.8	2.43	4.1	2.43	10.92	13.83	14.14	6.03	5.99	5.28	7.35	1.54	5.81	2.51	0.59	-0.21	0.46	5.25	8.33	10.22	9.94				
7.5	5.09	8.36	8.36	11.37	11.15	5.16	-1.9	3.64	2.32	9.93	15.09	14.59	8.85	6.6	9.43	6.59	1.86	8.03	7.94	5.64	4.25	3.86	7.59	7.77	9.22				
15	5.72	8.15	8.15	9.94	5.28	6.91	3.12	12.38	12.63	13.53	15.17	14.73	11.48	2.66	1.12	0.94	-0.05	11.33	11.54	8.74	8.3	9.3	5.99	10.1	12.48				
22.5	8.67	9.54	9.54	-2.45	4.77	12.17	6.43	7.85	10.25	12.61	16.76	14.82	12.55	9.28	3.63	3.47	-1.59	4.28	7.16	5.78	9.43	12.88	11.8	13.76	13.91				
30	3	5.04	5.04	6.04	6.25	13.68	-1.15	8.68	1.47	6.42	15.53	16.35	14.57	12.27	7.99	2.95	2.44	2.76	0.19	3.72	6.44	11.37	12.65	10.81	14.05				
37.5	5.56	-0.65	-0.65	10.61	5.86	5.75	3.8	8.82	10.83	14.3	14.8	14.57	13.99	13.22	10.65	10.2	9.61	12.52	11.9	11.98	11.7	8.8	7.43	1.94	5.17				
45	7.79	3.24	3.24	5.4	3.35	2.71	6.2	12.72	14.59	14.31	14.7	15.56	15.76	15.71	13.37	11.6	12.95	11.41	13.81	13.23	12.36	13.14	7.11	5.88	1.89				
52.5	4.55	2.39	2.39	10.4	12.32	7.04	-2.33	7.95	13.69	16.81	18.69	19.07	18.88	18.99	18.7	15.41	15.48	8.92	10.64	7.95	3.44	8.99	9.61	3.9	0.11				
60	5.61	9.71	9.71	12.02	14.52	6.86	4.38	4.77	5.79	6.41	5.37	5.25	6.56	5.1	9.58	6.13	9.69	9.01	11.17	7.82	-3.33	7.28	6.27	2.03	5.36				
67.5	10.51	13.09	13.09	16.17	15.9	1.64	4.22	7.64	10.98	11.81	11.4	10.3	7.77	8	2.7	3.35	4.52	8.01	9.06	12.52	11.39	6.85	6.3	7.71	5.38				
75	9.6	12.65	12.65	17.5	18.16	11.28	11.84	10.89	10.25	10.85	8.77	9.71	11.4	10.93	11.12	11.22	9.56	9.53	8.52	3.56	8.95	6.94	9.04	5.29	5.96				
82.5	4.29	10.06	10.06	15.4	17.58	3.96	6.44	6.1	5.4	4.24	4.4	6.78	6.9	5.67	4.95	7.9	8.21	9.42	11.54	12.85	9.42	10.74	6.19	9.11	9.06				
90	-0.43	5.16	5.16	12.08	15.24	10.84	9.03	9.26	8.49	7.84	9.61	9.95	10.45	11.43	12.32	11.54	12.67	14	11.99	10.39	10.78	5.36	9.17	7.12	3.87				
97.5	3.12	6.42	6.42	10.94	10.21	13.36	13.39	12.58	10.43	8.16	9.27	9.33	9.3	12.67	13.24	13.99	14.38	9.31	8.95	6.99	5.7	10.36	6.32	3.71	4.4				
105	2.04	2.03	2.03	13.23	11.93	14.34	13.72	11.77	11.46	11.47	8.95	2.04	7.19	12.33	12.3	13.12	10.94	9.38	9.87	9.2	7.93	4.56	0.69	5.15	6.5				
112.5	4.75	3.69	3.69	12.71	11.71	10.96	9.41	10.43	13.36	13.07	11.29	11.79	13.07	13.69	9.32	2.13	2.43	2.68	5.08	-0.01	4.02	6.61	4.37	3.77	0.4				
120	3.64	5.24	5.24	6.72	9.72	2.69	7.33	11.34	14.11	9.08	8.42	13.53	15.1	11.22	5.89	11.4	12.85	9.28	1.71	3.91	9.74	8.24	6.3	3.62	0.4				
127.5	6.51	3.49	3.49	4.29	10.26	8.52	-0.78	9.76	14.01	12.04	-1.13	12.9	14.04	5.5	5.8	13	13.66	7.74	6.86	4.24	8.22	8.18	6.44	10.63	10.82				
135	4.64	5.93	5.93	6.06	11.3	7.69	8.79	8.9	5.85	4.8	7.3	7.48	8.82	6.01	7.41	10.09	10.03	11.51	13.26	5.1	4.95	-0.96	6.03	8.47	8.95				
142.5	4.84	-0.66	-0.66	8.14	7.73	12.7	14.62	9.76	8.23	9.46	-2.54	5.86	11.38	12.18	13.57	16.19	14.29	13.11	11.65	7.08	9.36	6.2	4.66	7.87	7.26				
150	10.94	7.54	7.54	8.48	15.37	14.49	13.63	12.51	6.29	9.89	3.3	10.41	15.48	14.77	12.06	16.47	13.3	7.7	14.4	11.16	6.68	12.01	1.01	10.87	9.11				
157.5	13.78	10.49	10.49	11.05	7.35	8.51	7.9	10.59	1.61	6.54	7.93	5.29	11.5	14.7	11.45	11.97	10.44	3.36	11.59	8.87	-1.03	8.18	2.72	9.39	8.35				
165	11.24	7.46	7.46	8.63	7.83	10.74	2.58	4.74	7.3	8.3	10.67	11.66	3.3	8.28	12.6	14.37	13.82	12.05	4.71	10.13	3.89	-0.81	6.63	6.85	5.54				
172.5	-1.64	-1.57	-1.57	5.59	14.42	15.2	13.47	11.98	8.9	10.28	-0.64	11.18	14.67	12.56	6.98	6.05	7.12	9.96	9.83	13.21	12.15	2.71	-0.13	8.33	7.83				
180	7.72	5.89	5.89	6.8	14.69	13.41	11.52	11.46	9.38	12.91	10.17	0.32	6.49	10.58	10.76	5.34	0.68	3.11	10.65	12.26	9.95	6.96	7.77	9.41	4.69				
187.5	9.07	7.56	7.56	-0.12	8.75	4.92	-1.51	-2.05	5.81	9.32	12.44	14.63	15	11.94	4.84	5.97	-2.15	0.14	-3.41	4.17	6.57	4.64	7.38	10.43	6.86				
195	3.2	2.84	2.84	2.04	3.92	0.83	5.95	8.04	-1.11	5.99	3.61	9.73	12.96	12.45	7.66	-0.75	1.65	3.59	1.11	8.64	4.55	-1.7	5.48	9.8	11.86				
202.5	1.94	0.77	0.77	5.67	2.27	3.79	2.66	3.46	5.3	13.73	16.39	14.77	8.06	8.36	6.75	8.06	5.86	4.63	8.19	8.61	4.89	4.47	-0.6	6.33	10.37				
210	1.11	6.95	6.95	-1.45	3.95	4.36	7.39	0.52	6.18	6.44	5.6	10.35	14.21	12.93	9.65	8.45	4.53	4.15	3.23	0.7	6.12	4.69	-0.15	2.89	-3.16				
217.5	1.41	8.27	8.27	7.46	8.82	8.07	9.16	2.15	7.06	12.12	12.36	13.12	13.59	14.43	13.06	13.49	12.39	11.87	9.05	4.34	-0.92	8.05	10.58	8.52	9.58				
225	2.64	10.66	10.66	9.83	5.54	-0.16	3.38	7.51	7.06	10.91	13.57	13.91	12.18	12.07	8.58	11.61	10.56	11.77	10.58	7.44	-1.51	6.53	9.44	10.64	11.63				
232.5	0.78	5.01	5.01	4.65	4.49	3.48	4.5	4.68	10.13	13.91	17.17	18.71	19.61	19.46	17.42	14.86	10.35	8.47	7.85	4.25	1.54	3.77	7.2	7.94	8				
240	-1.33	-2.62	-2.62	4.15	4.72	3.9	5.45	11.02	15.07	19	21.32	22.58	23.28	22.8	21.65	19.5	15.94	11.92	8.81	3.98	0.94	4.45	4.67	3.42	-0.76				
247.5	3.25	2	2	8.52	5.02	9.61	13.19	17.66	19.99	21.95	23.03	24.03	23.92	25.48	23.35	22.28	21.49	20.45	18.1	16.22	13.75	12.04	10.67	11.18	10.61				
255	11.31	10.61	10.61	7.64	13.02	16.45	18.39	19.86	21.43	22.75	23.6	24.19	24.59	26.34	24.46	23.97	22.88	21.59	20.01	19.41	17.93	17.56	16.68	15.47	13.19				
262.5	11.56	11.28	11.28	10.44	16.51	18.55	19.9	21.25	22.28	22.97	23.97	24.12	24.43	25.85	24.05	23.63	23.52	23.58	22.71	21.69	20.58	18.51	16.86	14.08	11.97				
270	6.87	6.87	6.87	7.63	16	18.09	19.73	20.85	21.58	22.12	22.43	23.03	23.38	23.6	23.4	23.23	22.69	21.42	20.55	18.4	17.3	15.24	12.73	9.13	8.22				
277.5	-1.29	2	2	8.56	12.86	14.9	17.58	19.45	21.04	21.58	22.49	22.23	22.66	22.14	21.93	20.99	20.77	19.1	17.78	16.48	14.37	11.01	7.58	3.41	0.47				
285	-1.8	-3.24	-3.24	6.54	3.21	7.04	10.67	12.53	15.56	16.87	18.63	19.51	19.78	19.82	19.37	17.87	17.16	16.36	12.94	10.95	12	11.02	8.78	7.13	8.65				
292.5	5.29	1.73	1.73	7.67	4.47	3.47	3.11	5.16	9.8	14.58	17.34	18.38	18.8	17.72	17.67	15.22	13.44	14.42	12.79	12.21	10.46	10.22	10.02	8.49	9.08				
300	9.06	2.43	2.43	4.68	6.36	2.66	-1.78	-2.03	2.81	4.46	7.21	8.82	12.8	11.9	10.47	11.01	8.74	8.44	7.74	10.65	9.98	6.32	6.32	5.32	6.66				
307.5	3.39	-3.55	-3.55	1.67	0.61	1.58	5.35	6.47	7.8	5.83	-0.22	1.67	5.1	2.25	3.64	10.34	10.39	12.01	9.25	10	7.01	-4.13	-4.59	-3.14	-1.57				
315	5.96	8.04	8.04	9.58	3.51	6.19	8.08	7.39	6.03	6.73	6.22	5.98	8.82	11.91	13.61	15.71	12.74	12.49	11.36	9.38	2.96	-2.57	-4.45	-0.84	-2.99				
322.5	11.86	12.98	12.98	9.81	7.74	7.22	9.15	7.61	5.83	4.63	4.36	9.01	9.77	12.92	14.61	14.74	14.91	8.74	13.12	8.96	1.38	0.84	1.79	3.31	0.41				
330	12.26	10.71	10.71	9.7	11.56	10	11.53	11.34	9.46	7.72	9.54	13.21	12	9.35	10.12	12.76	12.28	7.61	9.97	5.84	7.34	8.53	9.29	3.9	13.57				
337.5	10.23	8.64	8.64	4.85	13.09	11.21	10.92	8.48	4.49	9.68	14.37	16.17	16.87	13.39	3.78	7.99	6.83	0.96	3.98	7.53	9.76	9.24	11.44	12.8	12.96				
345	10.82	10.18	10.18	3.24	10.67	8.69	8.6	8.84	5.73	-0.1	9.45	12.93	14.2	14.94	10.08	7.25	-0.88	5.27	4.62	9.18	9.64	7.98	7.94	4.75	9.23				
352.5	10.73	12.29	12.29	10.21	5.53	3.8	5.45	9.68	12.25	11.8	5.28	3.6	10.5	11.8	9.31	8.37	7.14	7.29	6.79	9.7	4.54	-2.09	-1.47	6.34	0.25				
360	10.68	9.25	9.25	12.72	7.86	2.36	4.18	2.84	11.52	14	13.75	5.76	7.09	6.51	6.89	2.02	6.23	1.86	-0.61	-0.33	-0.34	4.6	8.36	10.26	9.9				

802.11b20, Frequency: 5500MHz, Polarization: H																																			
Theta/Phi	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150	157.5	165	172.5	180										
0	25.8	26.55	24.36	22.52	19.41	17	6.15	14.5	16.88	19.04	14.93	11.13	12.14	7.74	11.19	19.57	22.48	22.5	22.41	17.23	14.94	10.44	8.68	15.28	18.72										
7.5	24.73	24.22	22.37	20.04	17.46	15.35	5.95	7.57	11.21	13.85	9.07	5.51	5.98	8.9	8.88	18.73	22.16	22.95	21.05	18.86	13.23	2.08	11.1	10.69	10.82										
15	18.49	17.01	15.82	15.69	13.61	11.03	7.89	2.47	3.98	4.19	1.35	6.3	9.17	8.78	12.67	14.9	19.77	20.18	19.02	16.62	10.29	6.57	10.57	13.85	6.69										
22.5	12.14	10.04	14.77	12.73	10.96	7.18	11.56	8.77	2.66	-1.38	5.75	7.7	8.31	8.67	6.2	9.87	13.32	11.57	8.88	10.44	2.56	7.65	4.59	9.69	10.79										
30	17.95	13.65	15.82	11.16	4.53	4.63	8.34	6.55	4.6	1.47	9.32	11.03	9.25	5.03	0.43	0.8	7.76	13.15	15.05	12.95	12.28	7.74	12.95	14.43	11.91										
37.5	15.17	10.41	9.37	0.28	1.21	-0.25	9.19	11.26	10.19	10.29	12.2	12.79	10.33	6.91	10.31	14.35	15.46	12.49	15.6	18.33	18.63	20.11	20.46	19.71	19.69										
45	2.65	3.7	9.17	10.55	9.66	2.54	13.01	16.07	14.39	12.81	10.37	11.77	7.98	3.42	-0.48	9.6	13.38	13.35	13.27	19.67	23.06	22.68	22.6	24.69	19.53										
52.5	11.83	14.39	16.77	15.24	4.69	10.89	14.08	15.24	15.71	16.16	16.16	14.49	11.68	4.75	-1.49	-0.59	5.85	8.47	11.36	18.18	22.21	24	21.82	21.2	23.41										
60	17.21	17.08	16.18	14.07	12.53	12.88	12.07	12.84	15.95	17.2	17.5	16.12	12.23	8.1	-3.11	0.98	2.25	-0.56	0.84	12.55	13.93	14.22	21.2	20.61	14.24										
67.5	19.56	19.82	19.75	19.35	17.59	14.97	10.97	11.28	13.2	13.94	14.9	13.33	11.22	1.29	-1.02	10.45	11.68	12.07	11.09	13.86	11.96	5.9	11.73	18.84	20.59										
75	23.31	23.06	21.75	20.74	19.85	18.73	18.6	18.44	17.59	16.32	14.69	12.38	8.68	0.44	6.2	9.79	11.98	13.61	13.14	15.4	19.49	21.34	20.12	15.9	12.48										
82.5	24.47	24.39	24.21	24	23.28	22.29	21.13	20.38	18.25	16.63	13.88	10.22	2.57	-0.03	8.32	12.87	14.63	18.05	20.47	21.88	21.14	17.83	18.25	20.64	22.26										
90	24	23.7	23.65	23.58	23.18	22.23	21.37	20.38	18.37	15.47	11.6	6.31	-0.52	10.06	15.23	17.75	20.41	21.12	21.14	20.19	20.34	22.86	23.81	24.08	24.46										
97.5	19.62	18.99	19.28	19.26	19.03	18.15	18.26	18.06	17.98	17.43	15.21	11.79	5.33	0.52	9.72	13.8	15.37	15.66	17.74	20.03	22.35	23.08	23.43	22.89	22.05										
105	14.03	14.4	13.27	13.06	12.98	14.45	15.71	15.67	15.21	11.8	6.81	6.2	4.41	9.55	12.28	13.97	16.06	18.1	18.89	19.62	20.97	20.56	19.61	16.75	18.19										
112.5	19.93	20.77	19.18	18.44	18.2	18.03	14.03	10	11.4	10.2	11.11	13.14	8.38	-0.49	10.09	13.31	15.75	15.56	14.83	13.59	14.73	14.73	15.89	19.77	21.53										
120	20.99	23.44	23.16	20.83	20.34	20.99	17.92	9.53	13.36	11.85	6.92	7.38	10.73	13.76	13.13	14.36	6.76	7.39	8.96	8.17	13.26	15.68	16.66	15.15	8.98										
127.5	19.83	22.94	22.08	21.74	21.4	18.87	19.2	17.37	10.93	10.04	6.92	-0.71	0.85	8	11.32	9.79	11.23	15.07	14.55	15.25	12.67	10.28	8.52	9.58	11.65										
135	19.51	19.58	19.06	20.2	18.14	16.25	16.75	14.14	12.61	11.74	7.9	8.24	9.08	4.15	12.21	14.3	15.43	16.19	14.53	11.31	12.99	12.82	14.36	15.61	14.24										
142.5	13.59	13.37	16.16	10.59	9.8	9.48	12.97	10.43	10.98	8.05	6.85	9.32	7.49	3.85	7.83	13	9.23	5.59	5.98	0.52	10.15	14.4	16.78	19.12	17.86										
150	5.25	6.97	8.33	-0.11	10	12.38	11.64	9.97	1.37	6.14	3.44	-0.33	0.73	9.21	3.66	0.93	6.69	10.41	10.7	10	4.38	14.99	15.38	10.09	13.57										
157.5	11.15	7.38	5.85	7.46	11.93	13.45	14.95	1.69	11.99	10.53	5.39	-1.47	0.49	3.61	9.47	7.15	2.76	6.53	12.48	11.46	-0.4	7.82	8.86	19.15	18.16										
165	15	14.95	11.57	3.91	9.66	13.87	13.65	10.31	14.52	5.49	4.73	-1.75	8.05	4.04	8.8	12.63	11.26	3.85	12.38	16.09	11.61	19.47	21.72	23.39	25.7										
172.5	19.5	19.58	16.45	7.24	7.18	15.54	12.3	14.11	15.45	12.89	10.82	10.7	16.98	12.41	14.2	18.46	12.74	10.44	10.44	18.84	19.09	20.88	24.66	25.23	26.96										
180	20.1	19	17.16	11.11	8.49	13.58	14.28	14.31	11.51	16.05	14.61	11	17.68	15.03	17.83	19.86	12.7	10.42	7.89	18.01	18.09	20.3	21.64	24.62	24.3										
187.5	15.99	12.34	11.42	10.55	11.91	14.84	14.94	16.29	14.94	4.05	10.68	4.18	13.54	13.25	16.45	18.12	11.44	11.45	9.24	12.64	8.74	14.55	13.47	19.25	19.2										
195	7.9	6.17	3.85	12.55	15.38	16.76	15.95	12.88	14.43	6.8	1.74	10.21	11.87	10.17	9.49	11.87	12.91	14.6	9.53	14.07	15.72	3.85	5.1	8.26	7.44										
202.5	5.69	6.78	10.63	13.49	15.77	16.21	16.75	12.97	0	5.75	-3.01	9.07	9.63	8.95	1.2	6.05	11.96	15.06	10.64	10.73	16.82	17.3	11.62	14.67	12.72										
210	11.98	12.15	13.32	14.16	16.29	16.53	16.15	14.96	11.89	7.38	8.13	5.87	-1.74	0.06	1.27	5.22	5.1	8.62	6.94	9.79	14.77	16.71	15.43	15.36	18										
217.5	19.76	18.22	17.6	17.37	17.76	18.4	16.82	12.46	10.85	4.35	6.29	8.49	6.4	0.7	5.01	7.2	7.08	6.97	8.38	13.62	15.05	10.77	12.53	13.54	15.12										
225	22.65	21.15	20.35	19.5	18.26	16.77	16.84	14.54	7.39	0.61	7.86	9.74	9.21	3.48	-0.58	8.92	10.34	5.72	0.3	7.4	11.35	9.86	7.74	6.29	5.44										
232.5	22.43	21.74	19.31	18.88	18.29	14.41	13.31	12.34	6.44	2.57	7.93	9.49	7.42	3.92	9.41	13.41	13.36	13.91	12.95	15.43	16.71	18.55	19.33	20.42	19.3										
240	18.66	17.66	16.63	15.11	13.7	12.09	10.13	5.06	-1.3	3.48	8	5.85	3.45	7.64	13.23	15.5	17.19	18.18	18.84	19.95	21.07	21.52	21.44	20.41	21.12										
247.5	12.56	8.78	7.42	9.17	7.55	5.05	4.78	4.4	5.03	7.74	9.12	7.06	4.52	-1.01	7.25	13.38	16.76	18.93	19.87	20.11	19.63	18.58	19.32	21.79	23.07										
255	8.99	5.94	4.25	4.98	5.59	6.91	5.71	5.56	6.71	7.7	5.59	2.8	-3.13	-0.19	6.38	9.34	13.02	14.44	16.22	17.04	18.71	19.44	20.26	20.92	19.57										
262.5	9.4	8.66	6.24	7.68	7.63	7.46	6.56	6.37	7.35	7.67	6.24	5.52	2.97	2.49	0.24	0.98	3.01	4.65	4.11	2.56	8.58	11.02	12.08	10.66	9.4										
270	11.63	11.98	11.53	12.2	11.61	11.49	9.78	9.36	9.21	9.22	8.05	4.27	3.81	0.89	3.9	5.37	4.95	6.32	8.51	12.88	13	12.71	11.41	8.55	5.01										
277.5	16.99	17.35	16.74	17.29	16.69	16.15	15.16	13.94	11.95	10.3	7.68	3.54	2.34	5.41	7.01	8.74	9.53	8.88	3.9	7.23	13.43	13.62	11.89	5.72	2.54										
285	20.57	20.54	19.9	19.35	18.32	17.17	15.59	13.34	10.16	6.31	3.13	0.28	1.23	5.01	7.72	9.32	11.38	11.99	9.42	5.07	3.24	12.44	14.26	10.61	5.2										
292.5	21.31	20.84	19.63	17.61	17.29	17.26	16.21	14.99	13.42	11.64	9.72	6.61	2.4	4.68	1.81	4.89	8.62	9.9	7.73	13.15	15.22	19.98	19.58	18.56	20.47										
300	18.62	17.32	15.53	13.66	15.35	16.4	16.9	16.85	16.42	15.46	13.85	11.44	6.85	4.94	5.26	8.76	10.88	15.66	19.62	20.66	21.9	23.19	22.51	24.31	23.78										
307.5	5.63	5.26	5.37	3.94	10.92	14.11	15.21	14.26	14.6	14.7	13.88	12.17	5.69	1.8	3.03	11.83	16.11	19.03	22.67	23.7	24.23	24.32	24.89	22.9	22.47										
315	13.33	13.14	9.25	10.91	2.55	4.98	8.25	13.19	14.53	16.19	14.98	11.48	3.85	9.4	10.37	10.6	16.14	21.25	22.91	23.33	23.32	23.63	21.81	20.14	20.26										
322.5	16.53	15.31	13.71	13.53	7.47	5.24	7.42	9.16	15.41	17.1	15.69	10.9	8.93	13.62	13.06	10.61	15.59	19.62	19.9	20.33	19.34	17.46	16.6	13.93	12.34										
330	13.34	10.73	10.69	7.31	8.64	3.3	2.7	2.78	8.73	12.67	11.88	3.14	8.78	12.78	12.75	7.1	12.8	14.45	14.62	5.85	12.05	6.16	9.49	-0.42	5.89										
337.5	6.67	9.22	7.23	11.4	12.41	10.73	10.8	12.14	14.04	9.27	4.5	0.64	5.02	8.72	5.78	0.44	4.74	5.36	7.06	10.78	14.02	5.73	7.15	4.39	2.88										
345	19.17	21.15	18.51	20.17	16.42	14.36	11.88	15.73	16.95	18.67	15.21	10.59	5.82	1.58	7.58	12.53	14.29	16.77	17.18	16.75	13.15	8.41													

802.11b20, Frequency: 5500MHz, Polarization: V																												
Theta/Phi	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150	157.5	165	172.5	180			
0	-2.96	9.59	9.64	11.28	9.22	7.1	9.95	11.46	10.25	11.89	12.5	14.17	6.75	-0.07	9.43	7.1	6.49	8.7	11.31	10.94	11.85	9.63	7.27	9.65	4.96			
7.5	2.97	7	4.7	7.84	2.58	7.83	6.02	11.08	11.82	9.87	12.23	13.44	12.34	6.73	9.62	9.73	7.68	10.32	11.61	9.25	7.05	-0.43	2.03	2.72	1.27			
15	9.76	6.52	6.24	1.37	1.15	-1.22	2.33	5.62	9.74	6.02	6.07	11.3	12.81	13.74	10.23	4.09	3.1	6.79	3.42	4.87	3.62	7.91	5.24	8.13	3.67			
22.5	10.8	10.36	9.29	7.59	3.55	4.31	-0.13	1.1	11.27	13.08	6.39	7.43	13.21	13.13	11.67	2.09	7.52	11.62	3.74	3.75	4.1	4.04	0.87	6.08	10.46			
30	8.19	9.02	12.35	12.38	8.03	4.78	-0.64	-1.06	6.99	9.72	11.47	8.61	10.84	10.75	8.09	4.45	11.04	14.22	11.52	7.94	7.23	8.6	11.76	11.78	10.78			
37.5	0.58	7.77	12.16	12.61	7.33	0.72	10.46	14.83	13.2	9.35	7.97	8.65	8.01	8.68	8.97	3.02	4.41	9.31	9.93	11.45	11.52	14.02	13.56	12.75	13.5			
45	4.29	-1.3	5.86	1.76	-0.32	8.4	16.62	19.86	18.61	14.7	8.34	3.61	0.92	2.36	2.84	8.16	8.63	8.16	4.03	6.49	8.62	8	5.72	5.98	10.96			
52.5	1.55	3.71	11.54	12.96	9.59	14.11	18.27	20.19	20.55	19.56	17.66	16.04	14.28	13.23	9.37	10.84	11.49	14.31	13.74	15.07	15.91	8.78	4.43	4.03	10.42			
60	10.49	11.69	14.14	16.53	16.76	16.64	18.39	19.97	20.44	20.8	20.73	20.44	19.64	17.26	15.61	11.72	11.75	13.9	15.71	11.1	5.79	12.37	10.88	9.01	4.23			
67.5	12.86	14.78	15.54	16.6	17.92	18.82	19.04	18.77	18.89	19.64	20.9	21.69	21.8	21.3	19.57	18.77	17.12	16.17	13.37	9.36	7.68	7.2	7.81	8.87	8.02			
75	8.75	13.56	16.46	17.75	18.83	19.22	19.91	20.63	21.33	21.55	22.08	22.18	22.33	22.39	21.71	20.59	19.11	18.61	18.1	18.89	17.61	15.18	11.08	2.05	3.87			
82.5	3.85	8.99	13.08	15.95	18.44	19.56	20.26	21.4	21.76	22.43	22.72	23.88	23.95	24.06	23.79	23.93	23.16	22.91	22.21	20.25	17.47	12.51	9.69	8.83	3.05			
90	4.5	7.65	11.52	15.05	17.79	19.53	21.17	22.55	23.6	23.84	23.96	23.83	23.85	23.98	24.44	23.84	23.59	22.45	20.77	18.11	15.57	14.36	12.03	8.74	3.08			
97.5	8.88	9.52	10.88	12.51	14.01	15.09	16.53	17.61	18.86	18.9	20.33	21.74	22.99	22.89	22.1	21.03	19.14	16.15	13.99	12.11	12.29	8.19	4.04	-0.95	5.79			
105	0.36	2.15	9.15	12.26	12.48	11.96	12.46	14.24	15.07	16.51	18.06	18.19	17.63	15.46	15.92	13.84	14.33	13.19	10.7	9.25	4.02	6.21	7.88	10.66	10.78			
112.5	8.38	10.81	12.72	15.15	14.32	12.86	10.14	12.76	12.19	11.85	8.9	10.19	15.74	18.51	16.7	14.51	8.75	5.82	5.95	2.36	3.75	6.95	7.08	5.38	9.92			
120	11.97	13.42	15.74	16.26	13.5	13.92	14.5	13.07	10.27	11.86	8.07	0.81	11.77	13.73	14.22	4.47	6.94	9.78	4.1	0.28	2.6	3.4	3.57	6.57	4.09			
127.5	12.78	10.61	12.14	15.1	13.82	10.7	14.25	14.73	8.66	5.68	13.45	11.55	2.18	-0.11	-0.15	3.64	6.41	6.31	-0.94	1.99	2.02	2.86	1.28	4.46	2.31			
135	7.28	3.17	8.75	10.19	9.25	8.81	7.62	8.03	6.57	0.92	4.32	7.2	7.64	4.24	7.05	7.87	8.44	12	8.12	7.09	8.71	6.07	5.02	3.56	5.68			
142.5	10.98	7.46	2.68	8.8	14.2	6.35	12.57	14.65	4.35	6.23	-1.34	7.86	8.27	9.25	10.58	11.99	8.39	-0.2	-2.15	5.27	3.62	2.47	1.67	9.78	8.67			
150	11.38	11.78	11.46	12.03	7.88	3.48	8.56	0.23	9.36	11.45	-4.71	-1.97	5.6	4.57	6.87	12.43	10.33	5.92	-0.25	-0.88	7.55	7.33	6.07	11.13	12.21			
157.5	9.94	12.11	12.38	12.41	3.18	6.31	1.38	8.38	11.86	8.83	3.1	4.41	6.94	10.88	6.03	11.99	14.24	6.33	2.7	3.67	7.54	12	10.69	7.8	10.27			
165	4.2	2.46	8.59	11.33	10.81	9.46	12.02	10.57	16.38	12.31	12.04	14.36	4.44	11.78	14.68	9.26	10.92	10.15	12.13	10.75	7.37	6.32	6.34	7.22	-0.89			
172.5	2.49	5.54	6.4	5.47	9.3	5.79	11.67	6.48	14.92	13.87	12.69	15.97	10.64	8.54	14.86	11.97	5.96	7.81	11.55	8.78	1.38	-2.75	7.71	11.59	3.05			
180	7.04	8.52	9.81	3.59	7.28	3.98	8.86	12.78	10.52	10.49	8.29	13.22	12.72	10.65	-2.61	6.13	5.08	3.72	7.24	-1.28	1.68	1.66	6.08	5.66	3.26			
187.5	3.98	6.8	6.86	4.21	2.48	5.54	4.78	9.02	15.2	14.99	12.36	10.8	-0.05	10.38	8.51	2.34	10.73	6.12	3.24	6.6	4.69	5.21	3.1	8.2	7.3			
195	2.51	-1.34	2.38	5.82	2.54	0.86	8.33	2.22	10.58	11.42	4.6	9.54	9.13	8.91	5.47	1.5	8.4	6.16	5.74	2.96	7.73	8.91	7.94	8.57	11.69			
202.5	-2.1	3.19	7.78	11.36	10.92	9.52	10.15	12.07	6.67	12.38	11.22	7.11	10.76	7.27	2.18	4.74	0.64	7.04	11.83	10.99	7.28	12.64	9.67	3.28	4.74			
210	3.89	8.65	4.48	9.61	11.82	9	13.93	13.12	8.35	8.19	11.61	9.79	6.44	8.41	4.87	5.74	8.45	11.59	12.21	9.4	2.69	8	2.56	5.62	2.94			
217.5	5.33	6.97	9.34	4.1	6.84	5.78	8	13.36	11.18	9.34	9.72	12.16	12.42	12.11	7.98	4.32	0.91	6.25	8.92	7.61	1.3	1.47	5.97	10.44	5.74			
225	-1.51	7.51	13.34	12.23	5.61	10.39	7.72	10.66	10.07	6.26	12.08	16.28	17.23	17.3	15.28	14	7.32	6.34	9.82	10.17	8.79	10.42	11.28	8.7	1.99			
232.5	-0.16	6.5	12.4	12.23	8.92	8.79	11.72	15.3	15.42	14.31	11.82	13.47	16.51	18.49	17.64	16.47	14.39	14.29	14.12	14.77	14.08	14.8	14.05	12.02	6.14			
240	4.68	6.38	7.31	6.46	7.51	10.23	13.53	14.34	12.2	11.85	12.99	13.41	17.17	18.07	19.31	18.55	17.78	16.74	15.91	15.24	15.48	16.27	15.69	13.45	9.14			
247.5	3.7	6.56	5.93	2.23	8.78	12.19	13.39	14.41	14.5	12.17	11.98	14.14	15.84	17.95	18.49	18.94	18.23	16.65	16.06	16.09	16.22	16.27	15.68	14.49	11.84			
255	5.87	7.77	8.5	8.15	9.1	9.8	9.79	8.96	9.3	10.14	9.44	10.45	14.04	14.37	14.36	14.06	12.94	13.17	13.93	13.7	13.84	14.34	14.29	12.44	11.72			
262.5	1.79	3.11	4.02	3.34	5.37	4.89	5.53	3.66	6.26	8.69	9.89	9.67	7.62	9.07	11.54	11.77	13.12	12.37	12.29	11.56	10.43	9.63	9.52	6.32	6.4			
270	5.04	3.81	0.3	-0.38	-0.07	0.09	2.81	6.25	7.02	9.34	9.32	12.76	12.19	13.61	11.92	11.88	10.09	10.61	9.25	7.95	4.97	3.37	2.22	3.28	2.74			
277.5	10.82	8.43	4.82	1.56	4.32	9.91	12.99	15.57	16.64	17.35	16.8	16.52	16.67	16.05	15.47	12.44	11.2	10.22	6.76	6.63	8.13	4.79	-0.3	4.8	6.37			
285	10.73	6.63	0.12	5.51	11.25	15.06	16.85	17.96	18.15	17.47	16.93	15.05	13.91	14.02	13.2	12.62	11.44	9.11	-0.58	2.9	5.49	5.33	4.66	2.09	4.91			
292.5	7.68	-1.87	-1.89	6.28	12.05	14.58	16.85	17.41	18.05	18.14	17.54	16.19	14.66	13.91	11.11	6.27	7.25	2.93	1.5	4.74	-2.01	6.56	5.24	-2.28	4.51			
300	4.41	0.92	0.06	1.1	5.18	9.62	12.82	14.57	14.89	12.52	12.37	12.66	12.62	12.18	12.93	9.52	9.34	5.72	8.04	6.55	5.55	8.31	6.77	1.31	3.86			
307.5	5.56	-1.12	-1.97	4.02	3.58	3.86	7.07	5.79	4.07	8.86	11.91	14.11	13.72	11.87	11.69	12.2	14.89	11.88	10.93	7.24	7.9	4.7	10.25	6.38	1.03			
315	2.15	-2.5	5.04	8.75	6.49	6.56	6.46	3.06	5.99	10.62	14.18	14.5.1																

802.11b20, Frequency: 5825MHz, Polarization: H																											
Theta/Phi	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150	157.5	165	172.5	180		
0	22.41	21.14	18.54	15.96	16.55	13.68	8.02	5.16	7.03	8.72	10.07	12.93	16.07	11.99	3.42	16.08	20.38	21.81	21.24	20.48	15.00	6.16	18.62	18.45	21.36		
7.5	22.07	21.40	16.60	12.72	15.63	15.79	11.10	13.95	8.24	11.80	13.64	12.77	11.54	8.34	3.89	15.43	21.25	22.43	22.71	22.16	19.16	13.89	4.05	6.27	11.60		
15	21.43	21.04	13.26	14.49	13.30	17.00	15.37	16.15	9.56	11.78	11.49	1.97	3.09	11.84	13.08	15.91	19.07	19.52	21.09	22.19	20.75	18.94	18.99	14.04	18.02		
22.5	19.29	18.90	11.25	13.39	14.43	17.48	18.27	15.59	15.96	10.56	9.85	6.98	8.02	14.06	17.17	16.43	16.75	17.35	18.86	19.89	20.30	18.29	20.11	10.42	19.55		
30	16.20	12.16	10.89	13.46	16.20	17.00	17.89	15.59	15.20	13.82	7.85	3.00	4.18	7.67	14.63	18.60	20.83	20.91	19.74	18.46	16.57	14.20	14.03	6.27	13.80		
37.5	10.51	12.53	11.56	8.96	17.88	17.25	16.49	13.75	11.27	13.79	11.23	6.33	6.28	3.30	12.13	15.35	17.54	19.62	19.66	11.89	6.60	10.40	13.09	14.26	5.56		
45	12.97	15.24	12.52	10.31	17.85	18.98	16.18	10.69	7.20	4.75	-0.12	-0.66	2.67	7.21	6.64	6.91	9.89	13.65	11.16	15.63	17.03	19.28	15.09	16.22	17.40		
52.5	19.77	16.42	11.82	15.43	17.82	17.45	16.63	15.79	14.65	14.01	15.04	14.61	12.80	10.65	9.48	0.59	5.75	11.74	12.03	16.24	14.83	16.52	17.54	6.92	17.59		
60	19.04	17.55	15.75	13.80	6.24	8.60	14.05	14.45	15.78	15.97	16.18	16.15	13.80	10.19	9.04	10.48	9.62	3.13	7.14	6.85	6.01	7.02	14.49	16.61	7.65		
67.5	12.08	15.76	16.49	15.28	12.00	12.84	15.40	16.83	16.23	15.50	13.93	13.02	11.29	2.92	0.31	7.17	11.77	12.41	14.99	15.22	12.00	9.67	13.87	18.99	20.25		
75	21.73	21.63	21.83	22.73	22.86	22.15	20.36	18.59	14.80	11.45	6.59	2.50	7.07	11.29	14.18	16.67	18.38	19.31	18.59	22.09	23.17	23.81	22.25	17.19	12.15		
82.5	26.88	26.64	26.02	25.36	24.32	23.55	22.17	20.64	18.46	15.28	9.62	7.49	13.73	17.65	19.70	21.49	22.73	24.49	25.72	25.79	24.76	24.23	23.57	24.82	26.01		
90	26.90	26.51	25.85	25.03	24.19	22.68	21.45	19.52	17.09	13.68	11.52	11.28	15.35	17.88	20.78	22.93	24.60	25.17	25.19	25.22	26.33	26.94	27.01	27.42	27.46		
97.5	22.67	22.57	22.33	21.29	20.37	19.73	19.00	17.97	17.28	16.09	13.10	11.81	13.40	16.29	18.59	19.04	19.48	18.67	20.46	22.09	23.67	23.89	23.81	22.47	20.03		
105	11.13	11.65	15.08	14.79	14.64	13.33	11.95	11.80	12.41	11.18	9.77	9.99	4.63	1.91	7.93	11.98	15.22	17.75	17.61	15.84	15.29	11.68	7.83	13.61	18.87		
112.5	14.98	15.19	13.28	9.70	10.02	12.16	9.49	6.50	7.82	9.02	11.17	6.67	0.25	13.33	16.06	15.94	15.60	14.46	11.25	0.85	6.42	14.88	19.31	20.61	17.32		
120	16.84	14.58	15.86	15.11	10.85	13.96	11.97	0.38	3.52	1.29	7.56	8.24	8.10	11.37	10.53	3.12	2.93	5.00	6.80	13.91	14.15	16.32	17.88	15.96	18.83		
127.5	14.05	10.14	14.85	16.55	16.01	14.03	10.82	4.33	3.67	1.56	4.99	6.91	-0.17	6.20	8.41	8.42	10.68	14.28	12.55	10.32	15.73	16.48	19.26	20.46	15.22		
135	7.19	11.50	9.25	13.06	13.64	15.12	15.66	10.13	6.18	11.40	9.91	9.73	8.03	12.82	16.75	15.92	9.04	9.28	12.61	12.67	12.80	15.00	11.23	5.50	15.43		
142.5	13.69	11.58	7.01	7.36	1.74	12.84	13.04	7.27	14.67	17.62	15.41	11.98	9.90	4.16	8.54	10.93	9.45	7.53	8.14	8.71	8.87	1.63	7.45	7.13	14.14		
150	17.62	17.17	17.55	17.91	15.14	15.95	14.47	10.84	16.50	15.68	10.01	6.10	13.93	12.07	6.33	9.83	6.66	7.56	8.67	7.22	11.38	7.12	13.65	19.80	15.17		
157.5	16.34	17.59	16.20	19.30	17.47	17.12	16.46	9.04	14.61	12.97	12.54	0.67	7.78	5.57	4.14	10.17	1.78	5.03	11.50	10.89	4.50	12.66	12.38	21.99	18.14		
165	6.91	5.22	5.09	9.93	12.86	14.81	14.05	9.45	13.25	6.83	7.19	-0.62	1.92	-1.05	5.47	9.25	7.65	9.81	13.83	10.88	9.04	16.23	16.25	22.58	20.85		
172.5	21.56	21.57	21.50	16.98	12.00	2.82	12.00	8.46	14.62	14.17	9.82	2.36	3.50	2.46	7.75	5.43	9.95	9.57	14.16	14.63	14.70	19.44	20.69	22.59	23.83		
180	25.16	24.79	23.47	20.30	16.37	10.04	12.18	12.41	15.58	16.15	10.58	4.53	9.69	-1.58	8.52	11.47	9.50	5.56	11.88	17.32	17.52	17.45	22.06	20.40	24.33		
187.5	23.44	21.97	20.46	14.80	13.52	14.75	14.89	14.56	13.60	10.36	3.23	7.14	7.73	1.45	11.96	14.42	12.95	5.06	1.91	12.06	11.62	10.55	17.42	15.03	19.92		
195	15.74	11.66	8.28	9.97	15.36	17.38	17.93	13.78	9.77	1.95	11.17	11.03	11.06	2.01	6.49	8.58	6.33	10.42	11.19	8.35	9.90	14.15	12.65	10.29	9.41		
202.5	6.14	13.96	13.28	16.54	17.93	18.56	18.18	12.20	3.05	8.87	11.36	5.31	4.47	7.06	7.36	6.55	-0.14	6.47	13.80	17.25	16.93	18.98	19.29	19.71	16.56		
210	16.01	18.70	17.97	17.32	17.64	17.40	15.84	10.21	0.41	7.60	10.37	9.62	2.48	7.96	7.79	-1.25	10.39	9.45	7.75	18.05	20.03	20.44	21.89	21.00	20.55		
217.5	17.93	19.47	18.84	15.27	16.04	14.36	12.11	7.71	9.81	12.06	10.90	7.32	2.99	2.64	0.01	8.34	11.77	11.75	9.64	16.70	19.47	19.67	19.71	20.36	19.16		
225	18.92	19.07	17.88	14.22	10.66	10.03	9.28	8.71	9.31	7.43	7.33	4.65	0.16	4.92	2.01	6.89	10.47	11.96	16.19	18.87	18.13	21.78	20.58	11.11	20.49		
232.5	18.44	18.82	17.97	16.34	14.11	11.25	9.69	9.44	9.79	5.83	2.03	-0.74	1.77	1.56	3.27	9.91	15.24	16.62	18.78	21.22	22.10	20.88	20.57	23.29	22.39		
240	16.12	15.91	17.31	16.81	15.08	12.79	8.98	7.47	10.17	10.24	7.96	6.63	5.63	4.78	0.36	7.52	13.22	16.50	19.02	21.20	22.23	22.70	23.48	22.81	20.62		
247.5	16.41	14.44	13.55	15.23	14.98	14.04	11.71	10.96	12.05	12.23	11.81	9.60	6.51	3.29	-0.64	1.07	5.74	8.08	9.91	10.82	13.06	14.12	17.30	20.41	21.86		
255	19.80	19.70	19.09	18.59	17.68	18.06	17.12	15.53	14.27	12.64	10.22	4.02	5.99	5.98	9.35	11.20	11.29	10.18	8.86	11.33	12.17	11.96	14.81	15.40	13.05		
262.5	22.13	22.19	21.59	20.84	20.60	20.14	18.68	17.11	16.35	14.22	12.55	10.64	9.49	9.57	8.78	11.32	14.47	16.45	16.98	17.57	17.65	18.29	17.91	18.63	18.47		
270	19.85	18.97	18.53	17.93	18.44	17.22	15.98	14.60	13.25	12.26	9.22	4.77	-0.52	6.14	12.30	15.06	16.52	17.58	19.56	21.04	21.23	22.46	22.79	22.13	21.28		
277.5	12.10	11.13	7.14	6.28	10.35	10.94	12.94	13.08	14.17	13.23	12.71	9.91	6.56	4.86	7.62	12.39	15.13	15.56	16.96	18.44	19.44	21.05	21.09		17.85		
285	19.90	19.40	18.33	17.31	13.25	8.12	1.46	8.55	12.49	14.21	13.49	12.61	10.04	7.91	2.51	-0.20	4.56	4.04	6.49	7.36	8.36	11.68	12.94	8.43	15.82		
292.5	22.69	21.84	21.88	21.50	18.56	14.76	10.20	8.48	11.93	13.49	13.10	10.47	9.19	7.22	6.96	8.18	9.42	12.06	10.55	11.89	13.73	14.10	10.67	16.29	20.23		
300	19.92	20.75	21.87	21.12	19.91	18.89	14.32	10.96	15.00	15.60	13.77	12.13	12.45	11.29	10.76	10.50	13.82	17.20	17.73	18.21	19.82	16.80	18.90	21.85	16.06		
307.5	17.81	19.44	20.22	19.41	17.76	16.25	12.11	15.62	17.76	17.88	15.58	13.94	13.62	11.64	7.74	4.35	12.32	17.82	19.87	19.60	19.04	21.50	21.46	18.46	22.42		
315	20.07	21.27	21.51	20.96	18.90	14.07	12.90	17.25	20.43	20.92	19.70	17.14	13.01	9.83	9.95	5.60	12.79	19.01	19.59	18.26	19.67	21.49	20.61	21.18	18.25		
322.5	20.57	21.52	23.93	22.81	19.55	15.03	12.30	14.22	18.84	20.75	20.37	17.69	9.43	8.41	11.53	6.13	12.90	16.75	17.06	16.23	18.09	19.60	18.94	18.12	15.39		
330	17.06	19.25	21.81	21.09	19.12	19.26	17.88	12.39	9.22	16.52	18.42	16.39	11.26	5.93	9.49	4.05	10.52	13.74	12.98	10.88	12.28	13.74	11.26	8.31	6.12		
337.5	9.76	5.35	13.48	15.50	19.32	21.49	21.16	17.96	7.69	4.40	14.28	15.01	12.54	8.58	2.11	10.47	12.56	10.05	9.33	5.56	0.54	10.76	11.10	12.86	14.56		
345	16.42	15.93	13.44	16.02	17.92	20.38	18.73	16.15	10.95	6.23	9.79	14.19	14.56	10.29	10.34	12.52	14.24	12.91	14.18	11.77	13.79	18.70	17.70	22.30	20.96		
352.5	21.97	20.75	17.94	17.93	17.27	16.21	9.11	7.93	8.																		

802.11b20, Frequency: 5825MHz, Polarization: H																																			
Theta/Phi	0	7.5	15	22.5	30	37.5	45	52.5	60	67.5	75	82.5	90	97.5	105	112.5	120	127.5	135	142.5	150	157.5	165	172.5	180										
0	8.83	11.25	7.29	4.31	8.74	13.64	12.42	7.51	17.03	18.26	17.56	16.70	18.78	17.96	16.53	13.20	8.58	4.96	8.03	12.92	10.49	4.40	-0.84	7.04	8.53										
7.5	11.50	8.99	2.03	6.44	12.66	15.87	13.73	10.32	16.28	16.97	15.81	16.24	19.75	18.74	16.73	12.96	4.64	13.08	15.05	11.38	8.51	4.34	4.83	12.81	14.06										
15	14.86	14.59	6.84	-0.71	9.33	14.91	16.34	11.17	14.80	12.93	2.78	13.53	17.99	16.81	14.88	11.79	0.44	14.45	13.39	12.53	8.29	1.13	9.38	13.65	10.34										
22.5	14.55	12.22	12.52	10.01	2.50	12.04	14.58	15.12	14.29	14.35	14.82	11.38	14.32	14.65	14.13	13.47	9.41	7.34	7.15	7.39	3.54	9.08	3.36	6.66	6.98										
30	10.78	11.54	11.01	4.93	6.28	6.34	14.01	16.21	16.32	20.23	19.75	16.81	6.30	3.17	11.82	17.28	16.14	8.95	7.89	12.26	5.01	12.91	11.08	15.62	10.32										
37.5	10.00	9.68	10.44	8.20	10.72	13.96	10.95	12.56	17.89	19.80	19.84	17.23	9.42	6.54	13.62	15.28	12.51	14.23	13.50	3.03	8.90	15.39	16.83	14.18	10.68										
45	3.60	6.29	6.26	10.30	15.26	17.05	14.52	12.50	14.83	15.21	14.98	13.27	14.89	13.64	12.36	14.23	10.96	1.05	3.83	6.39	10.59	10.85	11.33	10.22	3.68										
52.5	9.39	10.63	7.41	11.53	15.04	14.51	13.35	15.17	17.41	18.00	18.19	18.30	18.59	17.83	14.83	14.34	11.35	5.73	8.20	0.23	12.10	12.50	6.81	3.35	10.23										
60	8.33	6.30	10.30	12.14	11.56	10.71	3.60	5.09	14.16	18.25	21.61	22.95	23.64	23.64	22.57	21.96	20.73	18.08	17.38	13.38	11.55	14.89	14.88	15.37	8.96										
67.5	11.41	13.33	15.12	17.45	18.84	20.10	20.43	21.41	21.84	22.40	22.21	22.68	22.40	22.78	21.46	20.69	19.66	20.05	19.41	19.56	16.55	13.01	10.50	0.99	4.41										
75	14.03	16.50	18.40	20.33	21.96	23.63	24.56	25.44	25.52	25.97	25.67	25.64	25.18	24.75	24.10	22.54	21.00	18.23	15.18	17.70	15.86	13.70	11.24	7.25	6.32										
82.5	15.06	17.66	20.05	21.65	22.85	24.15	25.07	25.74	26.36	26.66	26.87	27.24	26.96	26.99	26.42	26.59	25.61	25.33	24.07	21.56	18.13	14.22	9.63	6.30	3.36										
90	15.09	17.69	20.15	21.80	23.07	23.87	24.80	25.49	26.32	26.66	26.88	26.46	26.57	26.30	25.87	25.40	24.93	22.74	20.24	17.85	16.54	13.45	9.23	3.10	9.39										
97.5	8.16	12.34	15.70	17.22	18.75	20.02	21.64	22.61	23.27	23.34	24.22	24.88	24.99	24.50	23.95	22.16	20.25	18.41	16.75	15.84	13.94	7.25	2.28	9.20	8.14										
105	5.87	3.96	-0.85	2.76	2.32	6.75	12.98	15.27	17.60	19.04	20.07	19.58	18.70	17.28	16.15	15.38	14.39	11.39	6.94	5.21	6.49	10.45	10.04	7.41	8.02										
112.5	11.55	12.93	11.33	14.28	14.30	11.32	5.55	6.88	9.73	8.89	10.10	14.88	18.44	17.54	14.48	3.52	5.59	5.99	10.70	14.71	15.22	11.48	7.32	9.78	12.52										
120	8.73	11.85	14.40	16.62	15.69	10.46	12.61	13.37	10.09	6.32	4.71	12.13	15.36	13.30	10.26	6.34	7.29	4.46	9.86	10.98	12.46	10.79	4.36	-0.27	4.53										
127.5	8.79	11.64	7.82	11.76	16.36	14.37	10.89	13.98	15.62	12.31	4.31	11.17	11.94	14.55	15.84	10.94	2.15	13.39	8.66	10.88	15.40	12.55	3.27	-0.97	3.93										
135	9.88	3.28	7.21	10.31	12.44	12.32	6.85	13.61	12.15	13.02	14.68	12.97	8.29	7.66	13.61	11.68	3.16	5.89	3.45	4.21	8.59	11.16	11.04	8.24	13.46										
142.5	4.78	7.69	11.98	5.06	14.26	10.12	13.74	14.38	10.82	9.48	10.02	13.32	9.27	2.31	10.99	1.67	9.88	9.53	4.24	7.74	1.48	6.03	10.87	10.28	11.23										
150	8.50	7.24	6.01	4.81	13.59	10.69	13.95	11.83	10.44	4.24	0.24	4.13	4.95	9.70	13.69	10.01	-1.07	4.56	2.55	-0.55	4.71	9.53	15.46	16.75	15.02										
157.5	12.14	11.66	6.81	10.33	10.29	10.07	10.77	6.89	4.79	2.27	6.30	12.33	13.88	11.48	0.14	2.43	0.13	8.86	0.42	5.56	6.55	13.53	14.59	18.01	14.42										
165	14.77	11.75	6.97	8.71	10.54	8.89	8.37	14.63	7.94	2.95	3.63	6.19	2.08	3.00	1.18	3.23	3.22	4.92	6.36	3.73	-1.05	8.73	9.87	11.71	12.85										
172.5	10.33	10.10	2.25	4.83	3.37	10.19	5.03	5.85	8.42	12.80	11.64	8.97	-1.71	6.65	7.49	7.05	12.54	13.66	13.18	13.64	9.99	8.13	6.97	4.17	9.11										
180	8.37	3.45	9.77	4.77	5.33	12.32	7.83	10.47	11.30	1.49	13.97	15.76	12.51	6.72	2.59	7.11	13.92	14.52	13.78	15.47	9.14	12.17	1.48	5.49	10.87										
187.5	12.06	8.25	10.29	9.46	9.38	-0.56	6.89	7.84	10.38	5.76	9.78	16.19	15.88	15.97	12.42	-0.27	9.51	7.95	9.01	13.80	11.73	14.72	7.51	3.04	3.19										
195	9.94	10.60	12.22	8.21	13.02	6.48	8.80	9.30	9.80	7.26	15.35	18.58	18.68	16.84	11.61	8.57	9.09	9.62	4.12	0.90	6.98	14.56	9.82	8.13	1.75										
202.5	7.97	6.25	12.95	9.29	13.26	11.27	13.05	14.37	11.10	9.80	7.05	14.27	16.15	16.66	14.54	10.33	10.24	9.85	3.77	7.36	4.63	13.42	11.49	12.24	7.44										
210	7.81	1.09	13.26	13.98	11.73	14.07	12.27	14.83	10.73	9.47	8.68	12.32	16.48	18.46	16.65	7.19	5.38	3.06	6.10	7.23	4.89	12.27	11.52	13.64	7.94										
217.5	-0.49	-1.75	10.17	13.05	11.38	12.42	12.52	16.08	15.66	13.45	11.32	11.99	11.70	12.45	12.53	10.87	6.39	7.43	8.53	6.47	-1.10	3.26	9.07	10.39	11.11										
225	6.57	1.83	2.77	11.36	7.85	7.22	14.98	15.02	12.26	13.86	12.02	7.21	8.31	7.53	9.26	13.85	15.45	13.89	14.81	15.10	13.62	13.58	12.29	10.48	8.17										
232.5	3.27	7.33	7.33	1.10	1.64	2.77	12.34	15.12	16.70	15.47	13.41	10.83	10.55	12.22	13.74	16.82	18.34	18.62	19.35	20.58	19.89	17.36	12.22	8.75	8.33										
240	0.32	2.13	5.48	4.97	2.80	1.74	4.29	8.49	11.73	13.24	12.67	13.16	9.71	8.05	8.48	13.17	15.74	17.86	19.26	18.43	16.43	13.76	13.01	7.15	-2.27										
247.5	6.30	5.40	4.97	6.31	6.16	9.97	10.92	13.32	15.35	16.30	17.02	18.89	18.01	17.30	15.93	14.92	13.22	11.14	11.98	11.58	12.86	13.44	13.07	10.69	2.79										
255	4.13	6.12	8.63	11.36	13.01	15.26	16.73	17.95	18.61	20.06	20.24	20.25	20.80	20.17	19.62	19.63	18.51	18.85	17.45	17.23	15.75	13.88	11.75	7.97	5.95										
262.5	4.86	7.48	10.65	13.42	15.08	16.81	17.88	18.55	19.59	20.20	21.33	21.66	22.03	21.04	20.94	20.22	20.13	18.93	17.88	16.19	15.80	14.98	12.90	10.27	10.61										
270	7.57	6.04	7.62	9.67	12.34	13.96	16.12	17.50	18.61	19.28	19.67	20.24	20.73	20.75	21.15	20.88	20.30	19.39	19.11	18.17	15.05	12.55	11.07	7.45	5.39										
277.5	5.55	4.71	6.06	6.39	4.17	2.27	2.90	5.24	11.40	13.64	16.81	17.80	18.67	19.08	19.38	19.52	19.23	17.71	15.32	14.23	12.79	8.69	6.63	3.94	5.80										
285	0.62	3.96	9.76	12.82	13.00	12.86	12.22	10.73	9.98	11.36	15.15	16.39	16.89	15.94	15.57	12.71	12.19	12.00	9.51	3.60	6.69	2.45	6.58	9.43	10.27										
292.5	3.22	4.67	8.90	11.68	12.16	11.12	12.06	11.85	8.24	4.98	2.11	5.16	4.28	4.18	5.44	5.64	19.19	8.41	6.88	5.56	10.99	8.40	1.84	3.24	2.38										
300	7.74	7.47	4.92	3.08	6.35	8.15	10.88	11.47	10.61	7.38	7.09	9.25	8.80	12.39	13.02	14.11	14.95	12.54	14.91	12.67	13.39	8.89	5.63	7.99	5.03										
307.5	10.25	9.80	2.53	8.83	4.69	9.06	11.69	10.96	11.13	10.75	10.48	9.05	9.66	13.06	14.79	17.13	17.13	14.31	14.17	15.07	11.55	8.93	6.49	7.94	5.57										
315	7.65	10.34	8.65	0.82	8.18	10.99	9.90	8.24	10.15	11.32	14.56	17.42	17.74	16.77	14.75	15.35	14.60	16.50	12.64	13.58	12.75	4.56	10.10	6.25	7.00										
322.5	6.60	9.32	7.63	7.41	4.73	-0.98	3.12	1.31	3.03	8.77	13.71	18.49	20.65	20.59	16.22	8.72	14.07	14.30	13.83	6.26	10.48	5.27	2.81	2.83	6.82										
330	7.66	-0.83	2.62	4.38	5.93	10.67	9.69	9.56	1.69	6.30	13.37	14.54	16.90	18.04	16.81	11.10	1.43	11.69	6.66	2.80	7.94	3.85	5.08	-1.85	3.57										
337.5	0.14	2.11	8.14	9.93	9.38	10.63	12.41	9.60	2.60	4.92	11.79	12.93	14.06	10.93	11.04	7.33	5.89	3.60	5.15	2.06	-0.67	10.95	5.95	6.92	17.3										
345	4.56	3.18	8.29	13.26	11.32	8.88	7.87	6.75	8.85	12.84	14.76	12.18	11																						