



Antenna Composite Gain Test Report

Equipment	Access Point
Brand Name	Extreme Networks
Model Name	AP5022FX
Applicant	Extreme Networks, Inc. 2121 RDU Center Drive Morrisville North Carolina United States 27560
Manufacturer	Extreme Networks Inc. 2121 RDU Center Drive Morrisville North Carolina United States 27560
Standard	KDB 662911 D03 v02
Sample Received	Oct. 15, 2025
Start Test Date	Nov. 19, 2025
Final Test Date	Nov. 21, 2025


Approved by: Jackson Tsai

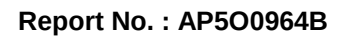
SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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1. Operation Mode and Antenna Information

Antenna Position	RF Port	Brand Name	Model Name	Ant. Type	Connector	Modes of Operation
6G Ant1	1	WNC	95XPAM15.G84	PIFA	I-Pex	6G Full & 6G Low
6G Ant2	2	WNC	95XPAM15.G85	PIFA	I-Pex	6G Full & 6G Low
6G Ant3	3	WNC	95XPAM15.G87	Alford loop	I-Pex	6G Full & 6G Low
6G Ant4	4	WNC	95XPAM15.G88	Alford loop	I-Pex	6G Full & 6G Low
SC Ant1	1	WNC	95XPAM15.G56	PIFA	I-Pex	Scan 2.4G & 5G & 6G
SC Ant2	2	WNC	95XPAM15.G57	PIFA	I-Pex	Scan 2.4G & 5G & 6G

Note:

6GHz Operation Mode (2TX/2RX)

6GAnt1~6GAnt2 can be used as transmitting/receiving antenna.

6GHz Operation Mode (4TX/4RX)

6GAnt1~6GAnt4 can be used as transmitting/receiving antenna.

2.4GHz and 5GHz and 6GHz Operation Mode (2TX/2RX) (Scan Radio)

SC Ant1~ SC Ant2 can be used as transmitting/receiving antenna.



2. Test Frequency

The listed frequency of each bands are selected to represent each frequency bands

Band [MHz]	Test Frequency [MHz]
5925-6425	6175
6425-6525	6475
6525-6875	6695
6875-7125	6995

3. Testing Location

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Wen 33rd.St.	ADD:	No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)		
	TEL:	886-3-318-0787	FAX:	886-3-318-0287
Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
Radiated	05CH03-HY	Billy	23.5-24.5°C / 45~55%	19/Nov/2025~21/Nov/2025

Note:

Testing Site Information

Brand Name: TDK

Dimension: 11m*6m*6m

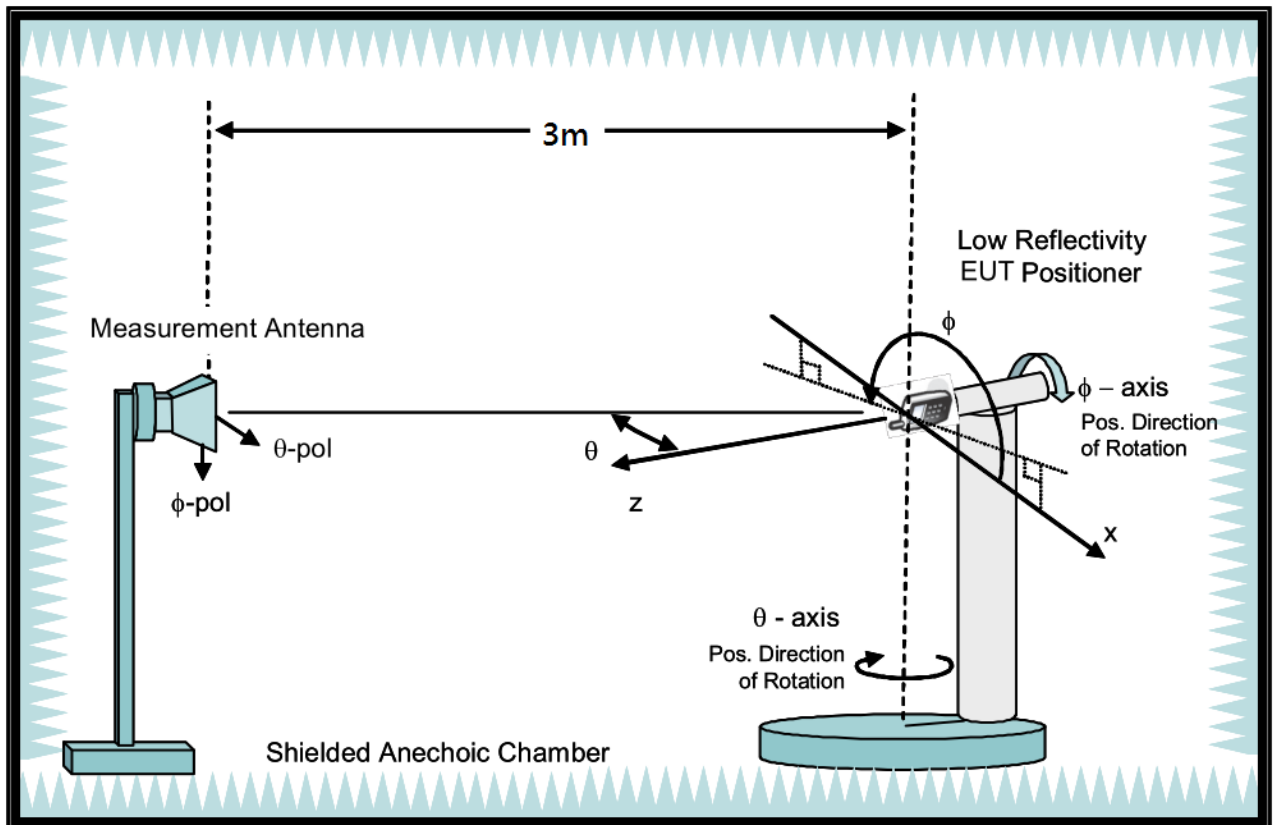
Characteristic: Fully Anechoic Chamber

4. Test Facility and Configuration

Test configuration: Reference to CITA OTA distributed-axes system configuration.
Chamber: Fully Anechoic Chamber.

Measurement antenna: Dual Polarization Horn antenna
Turntable: Multi-axis positioner (Theta and Phi angle).

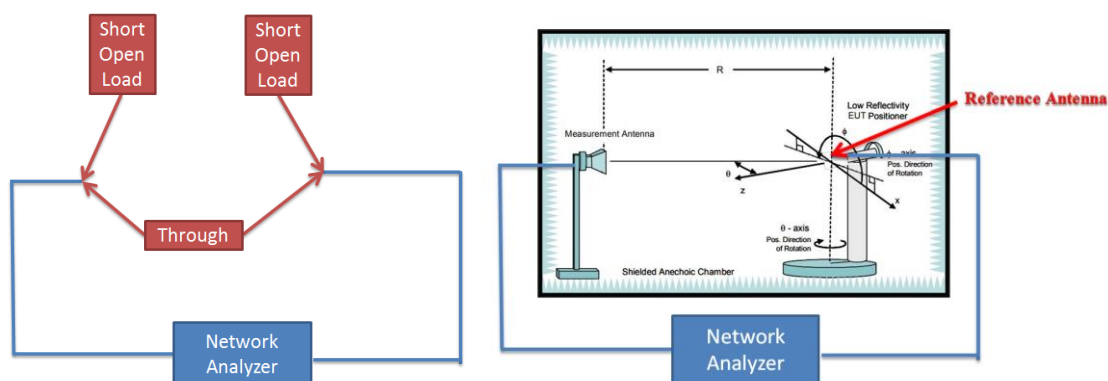
#Reference to CTIA "ctia-test-plan-for-wireless-device-over-the-air-performance-ver-3-7-1"



5. Reference Calibration

Connected cables to VNA calibration kit and use network analyzer internal function to do calibration. Do short, open and load to each side. Then connect through to both side and calibrate G values. The cable loss is calibrated and set inside the network analyzer.

Measurement Antenna is connected to port1 of Network analyzer and reference antenna connected to port 2 of Network Analyzer. Record G values and used with reference antenna gain to calculate gain factor.



Frequency	2400	2450	2500	5150	5200	5300	5600	5750	5800	5900	6000	6500	7000	7200
G(theta) reading (dB)	-33.48	-33.18	-32.45	-32.78	-32.43	-32.85	-32.74	-32.13	-32.46	-33.46	-32.73	-33.41	-34.78	-35.31
G(phi) reading (dB)	-33.45	-32.13	-32.74	-32.43	-32.87	-31.78	-32.46	-32.37	-32.73	-32.87	-32.46	-33.68	-34.74	-35.08
Reference gain (dBi)	10.4	10.5	10.2	11.4	11.5	11.9	12.5	11.8	11.7	11.6	11.8	11.5	11.4	10.8
Factor(theta) (dB)	43.88	43.68	42.65	44.18	43.93	44.75	45.24	43.93	44.16	45.06	44.53	44.91	46.18	46.11
Factor(phi) (dB)	43.85	42.63	42.94	43.83	44.37	43.68	44.96	44.17	44.43	44.47	44.26	45.18	46.14	45.88

Note:

$$G \text{ reading (dB)} = 20 \cdot \log(V_2/V_1) = 10 \cdot \log(P_2/P_1)$$

V2 is the voltage of VNA port2 is measured, V1 is the voltage of VNA port1 is the reference source.

P2 is the power of VNA port2 is measured, P1 is the power of VNA port1 is the reference source.

$$\text{Factor} = \text{gain factor} + \text{power gain conversion} = (\text{Reference antenna gain}) - (G \text{ reading})$$

6. Test Method

EUT set on multi-axis positioner and adjust EUT's physical center to measurement reference center. Measurement antenna set at phi polarization and 1.5 meter height. Port 1 of Network analyzer connect to antenna 1 of EUT. Record G value every 7.5 degree from 0 to 352.5 degree on Phi angle and 0 to 180 on theta angle of multi-axis positioner. Then set measurement antenna to theta polarization and repeat process. Repeat process to each antenna of EUT.

DG steps:

1. Each Phi and Theta polarization antenna gain are measured for all test angles.
2. Composite Phi and Theta antenna gain are computed, using formula in KDB662911 D01 d) (i) and e) (ii), for all angles.
3. Composite antenna gain are examined for all angles to determine max gain and Phi/Theta position. Max gain and phi/theta position are listed in section 7 tables.

Note: Antenna gain = G reading + factor, The factor of chapter five includes reference antenna gain factor and power gain conversion.

7. Measured Values and Calculation of Maximum Gain Positions

6G Ant1~2

DG_1SS max value position

Frequency (Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 (dBi)	3.99	1.47	0.42	2.44
Ant. 2 (dBi)	2.6	5.13	4.48	3.33
DG [1SS] (dBi)	6.33	6.5	5.7	5.91
Polarization	Theta	Theta	Theta	Theta
$\Theta(^{\circ})$	67.5	82.5	82.5	82.5
$\Phi(^{\circ})$	0	270	270	285

Note: The DG 1SS max value position is the maximum value of section 12 table DG 1SS Result.

DG_1SS max value position calculation

Frequency (Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 [$10^{(G/20)}$]	$10^{(3.99/20)}$	$10^{(1.47/20)}$	$10^{(0.42/20)}$	$10^{(2.44/20)}$
Ant. 2 [$10^{(G/20)}$]	$10^{(2.6/20)}$	$10^{(5.13/20)}$	$10^{(4.48/20)}$	$10^{(3.33/20)}$
Ant. 1 [$10^{(G/20)}$] value	1.583	1.184	1.05	1.324
Ant. 2 [$10^{(G/20)}$] value	1.349	1.805	1.675	1.467
Sum All Antenna [Amax]	2.932	2.989	2.724	2.792
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	6.33	6.5	5.7	5.91

Note:

Directional Gain (1SS) is the max value of every look angle. Each position value is calculated by KDB662911 D01 d) (i).

Directional gain (1SS) = $10 \cdot \log(10^{(G_{ant1}/20)} + 10^{(G_{ant2}/20)} + 10^{(G_{ant3}/20)} + 10^{(G_{ant4}/20)} + \dots)^{1/2/N_{ant}}$

6G Ant1~4

DG_1SS max value position

Frequency (Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 (dBi)	-8.56	-5.7	-8.01	-7.4
Ant. 2 (dBi)	-5.51	-4.31	-9.68	-7.12
Ant. 3 (dBi)	5.41	4.13	3.27	2.6
Ant. 4 (dBi)	2.11	1.61	1.35	3.55
DG [1SS] (dBi)	6.11	5.89	4.48	5.39
Polarization	Phi	Phi	Phi	Phi
$\Theta(^{\circ})$	60	67.5	82.5	67.5
$\Phi(^{\circ})$	120	127.5	270	112.5

Note: The DG 1SS max value position is the maximum value of section 12 table DG 1SS Result.

DG_1SS max value position calculation

Frequency (Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 [$10^{(G/20)}$]	$10^{(-8.56/20)}$	$10^{(-5.7/20)}$	$10^{(-8.01/20)}$	$10^{(-7.4/20)}$
Ant. 2 [$10^{(G/20)}$]	$10^{(-5.51/20)}$	$10^{(-4.31/20)}$	$10^{(-9.68/20)}$	$10^{(-7.12/20)}$
Ant. 3 [$10^{(G/20)}$]	$10^{(5.41/20)}$	$10^{(4.13/20)}$	$10^{(3.27/20)}$	$10^{(2.6/20)}$
Ant. 4 [$10^{(G/20)}$]	$10^{(2.11/20)}$	$10^{(1.61/20)}$	$10^{(1.35/20)}$	$10^{(3.55/20)}$
Ant. 1 [$10^{(G/20)}$] value	0.373	0.519	0.398	0.427
Ant. 2 [$10^{(G/20)}$] value	0.53	0.609	0.328	0.441
Ant. 3 [$10^{(G/20)}$] value	1.864	1.609	1.457	1.349
Ant. 4 [$10^{(G/20)}$] value	1.275	1.204	1.168	1.505
Sum All Antenna [Amax]	4.043	3.94	3.351	3.721
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	6.11	5.89	4.48	5.39

Note:

Directional Gain (1SS) is the max value of every look angle. Each position value is calculated by KDB662911 D01 d) (i).

Directional gain (1SS) = $10 \cdot \log(10^{(G_{ant1}/20)} + 10^{(G_{ant2}/20)} + 10^{(G_{ant3}/20)} + 10^{(G_{ant4}/20)} + \dots)^2/N_{ant}$



SC Ant1~2

DG_1SS max value position

Frequency (Hz)	2.45G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G
Ant. 1 (dBi)	0.39	4.11	4.34	5.46	3.12	3.14	4.88	5.13	4.76
Ant. 2 (dBi)	1.98	1.42	2.7	2.32	1.46	2.52	-2.78	-1.88	-3.81
DG [1SS] (dBi)	4.23	5.88	6.57	7.04	5.34	5.85	4.88	5.32	4.5
Polarization	Theta	Phi	Phi	Phi	Phi	Phi	Theta	Theta	Theta
$\Theta(^{\circ})$	45	22.5	22.5	22.5	22.5	22.5	67.5	67.5	75
$\Phi(^{\circ})$	142.5	300	300	300	292.5	285	202.5	202.5	202.5

Note: The DG 1SS max value position is the maximum value of section 12 table DG 1SS Result.

DG_1SS max value position calculation

Frequency (Hz)	2.45G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G
Ant. 1 [$10^{(G/20)}$]	$10^{(0.39/20)}$	$10^{(4.11/20)}$	$10^{(4.34/20)}$	$10^{(5.46/20)}$	$10^{(3.12/20)}$	$10^{(3.14/20)}$	$10^{(4.88/20)}$	$10^{(5.13/20)}$	$10^{(4.76/20)}$
Ant. 2 [$10^{(G/20)}$]	$10^{(1.98/20)}$	$10^{(1.42/20)}$	$10^{(2.7/20)}$	$10^{(2.32/20)}$	$10^{(1.46/20)}$	$10^{(2.52/20)}$	$10^{(-2.78/20)}$	$10^{(-1.88/20)}$	$10^{(-3.81/20)}$
Ant. 1 [$10^{(G/20)}$] value	1.046	1.605	1.648	1.875	1.432	1.435	1.754	1.805	1.73
Ant. 2 [$10^{(G/20)}$] value	1.256	1.178	1.365	1.306	1.183	1.337	0.726	0.805	0.645
Sum All Antenna [Amax]	2.302	2.783	3.013	3.181	2.615	2.772	2.48	2.61	2.375
DG [$10 \cdot \log(A_{max}^2/N_{ant})$]	4.23	5.88	6.57	7.04	5.34	5.85	4.88	5.32	4.5

Note:

Directional Gain (1SS) is the max value of every look angle. Each position value is calculated by KDB662911 D01 d) (i).

Directional gain (1SS) = $10 \cdot \log(10^{(G_{ant1}/20)} + 10^{(G_{ant2}/20)} + 10^{(G_{ant3}/20)} + 10^{(G_{ant4}/20)} + \dots)^{2/N_{ant}}$

8. Summary of Test Result

6G Ant1~2

Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	5.8	4.39	4.54	5.28
Ant. 2 Max Gain (dBi)	4.31	5.13	4.62	4.43
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/75/7.5	Theta/60/352.5	Theta/75/30	Theta/75/30
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/82.5/255	Theta/82.5/270	Theta/52.5/285	Theta/82.5/255
Max Gain (dBi)	5.8	5.13	4.62	5.28
DG [1SS] (dBi)	6.33	6.5	5.7	5.91
DG [2SS] (dBi)	5.8	5.13	4.62	5.28

6G Ant1~4

Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	5.8	4.39	4.54	5.28
Ant. 2 Max Gain (dBi)	4.31	5.13	4.62	4.43
Ant. 3 Max Gain (dBi)	5.41	5.06	3.5	4.6
Ant. 4 Max Gain (dBi)	4.15	3.89	2.42	3.55
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/75/7.5	Theta/60/352.5	Theta/75/30	Theta/75/30
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/82.5/255	Theta/82.5/270	Theta/52.5/285	Theta/82.5/255
Ant. 3 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/60/120	Phi/82.5/255	Phi/75/270	Phi/82.5/270
Ant. 4 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Phi/60/37.5	Phi/67.5/82.5	Phi/75/277.5	Phi/67.5/112.5
Max Gain (dBi)	5.8	5.13	4.62	5.28
DG [1SS] (dBi)	6.11	5.89	4.48	5.39
DG [1SS] (dBi) Revised	6.11	5.89	4.62	5.39
DG [2SS] (dBi)	5.8	5.13	4.62	5.28
DG [4SS] (dBi)	5.8	5.13	4.62	5.28

Note:

1. Antenna max gain is the max value of each individual antenna through all measurement angles.
2. The max gain is the max value of all antennas.
3. If directional gain is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii)
4. Directional Gain (2SS) = Directional Gain (1SS) – 3dB
5. Directional Gain (4SS) = Directional Gain (1SS) – 6dB

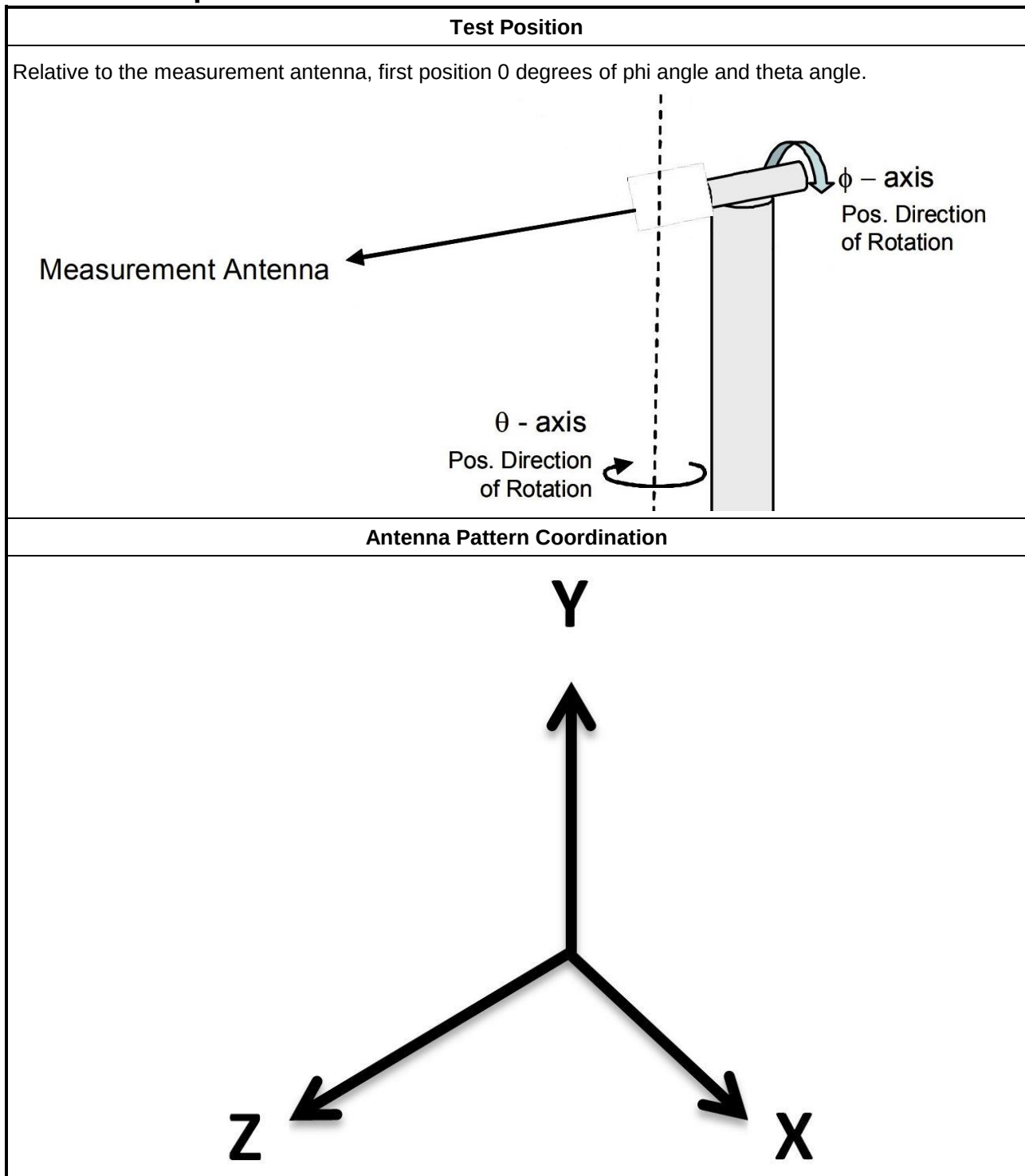
**SC Ant1~2**

Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	2.42	4.11	4.34	5.46	3.49	3.46	4.88	5.13	4.76
Ant. 2 Max Gain (dBi)	2.86	3.32	3.52	3.7	4.34	5.68	4.13	4.75	4.59
Ant. 1 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/52.5/97.5	Phi/22.5/300	Phi/22.5/300	Phi/22.5/300	Phi/30/292.5	Phi/30/292.5	Theta/67.5/202.5	Theta/67.5/202.5	Theta/75/202.5
Ant. 2 Polarization/ $\Theta(^{\circ})/\Phi(^{\circ})$	Theta/52.5/135	Phi/15/112.5	Phi/30/90	Theta/75/307.5	Theta/82.5/300	Theta/82.5/307.5	Theta/82.5/307.5	Theta/82.5/300	Theta/82.5/300
Max Gain (dBi)	2.86	4.11	4.34	5.46	4.34	5.68	4.88	5.13	4.76
DG [1SS] (dBi)	4.23	5.88	6.57	7.04	5.34	5.85	4.88	5.32	4.5
DG [1SS] (dBi) Revised	4.23	5.88	6.57	7.04	5.34	5.85	4.88	5.32	4.76
DG [2SS] (dBi)	2.86	4.11	4.34	5.46	4.34	5.68	4.88	5.13	4.76

Note:

1. Antenna max gain is the max value of each individual antenna through all measurement angles.
2. The max gain is the max value of all antennas.
3. If directional gain is less than max gain, use max gain as directional gain. Refer to KDB662911D01 (F) (2) (e) (ii)
4. Directional Gain (2SS) = Directional Gain (1SS) – 3dB
5. Directional Gain (4SS) = Directional Gain (1SS) – 6dB

9. Test Setup



Note:

Photos of Test Position: Please refer to the test photos in the appendix.

**10. Test Equipment and Calibration Data**

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120D-1531	1GHz~18GHz	Dec. 20, 2024	Dec. 19, 2025
Dual Polarization Horn Antenna	Sporton	S0209DP	S0209DP-001	2GHz~9GHz	N.C.R.	N.C.R.
ENA Series Network Analyzer	AGILENT	E5071C	MY46419477	100kHz~8.5GHz	Aug. 06, 2025	Aug. 05, 2026
VNA Calibration Kit	TS RF	TS85033E-F	-	DC~9GHz	N.C.R.	N.C.R.
Multi-axis positioner	Sporton	MAPS01	MAPS01-001	Theta / Phi axis	N.C.R.	N.C.R.
Test Software	SPORTON	SENSE-RDG	V1.0.8	-	N.C.R.	N.C.R.

Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.



11. Test Results

Please refer to the appendix.

Appendix A – Radiated Composite Gain of 6GHz/SC.....	Page 17
Appendix B – Antenna Pattern of 6GHz/SC.....	Page 52
Appendix C – Test Photos	Page 62

————THE END————



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Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	5.8	4.39	4.54	5.28
Ant. 2 Max Gain (dBi)	4.31	5.13	4.62	4.43
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/75/7.5	Theta/60/352.5	Theta/75/30	Theta/75/30
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/82.5/255	Theta/82.5/270	Theta/52.5/285	Theta/82.5/255
Max Gain (dBi)	5.8	5.13	4.62	5.28
DG [1SS] (dBi)	6.33	6.5	5.7	5.91
DG [2SS] (dBi)	5.8	5.13	4.62	5.28





Radiated Composite Gain Data of 6GHz_6G Ant1~2

Appendix A.1

Θ(22.5°)	-9.39/-13.22	-13.52/-12.97	-11.79/-11.96	-8.26/-7.09	-6.91/-7.43	-9.72/-8.99	-8.41/-8.94	-8.91/-10.15	-8.58/-5.04	-4.38/-6.19	-6.66/-6.57	-7.47/-5.24	-5.57/-10.88	-7.63/-4.5	-6.38/-7.59	-5.82/-6.76	-8.11/-8.77	-8.26/-9.41	-14.05/-9.31	-5.41/-4.24	-7.21/-6.87	-4.75/-5.01	-5.78/-6.95	-6.05/-6.32
Θ(30°)	-9.24/-10.44	-8.74/-11.47	-9.35/-11.25	-10.88/-8.27	-6.71/-4.65	-4.87/-5.84	-7.31/-7.34	-10.91/-10.53	-5.8/-3.67	-5.55/-5.13	-5.67/-6.14	-8.59/-9.21	-8.7/-11.07	-7.88/-7.64	-9.88/-4.25	-4.65/-6.78	-5.82/-4.62	-6.63/-7.19	-8.88/-8.89	-6.59/-4.35	-5.28/-6.44	-6.78/-4.45	-4.03/-4.47	-7.39/-7.07
Θ(37.5°)	-9.98/-11.29	-13.27/-11.85	-9.16/-15.49	-11.56/-7.43	-7.23/-7.7	-3.54/-5.85	-5.15/-3.55	-3.88/-6.44	-7.16/-3.31	-6.11/-5.93	-6.85/-8.8	-8.88/-9.52	-9.02/-9.32	-7.42/-12.19	-8.03/-7.24	-6.91/-5.43	-5.75/-4.49	-5.66/-7.88	-7.06/-6.85	-4.13/-8.31	-10.51/-9.8	-8.25/-7.1	-4.24/-3	-7.25/-6.35
Θ(45°)	-11.89/-9.3	-9.71/-13.67	-11.91/-15.54	-15.68/-12.34	-6.6/-6.45	-4.44/-3.04	-4.37/-4.99	-3.61/-4	-7.82/-3.59	-4.64/-4.84	-7.86/-7.62	-7.91/-9.3	-6.85/-12.44	-8.19/-8.28	-8.08/-8.85	-4.12/-3.05	-3.41/-4.52	-3.5/-9.07	-5.24/-6.25	-5.54/-7.94	-7.78/-7.31	-11.64/-11.18	-6.31/-5.49	-8.25/-8.1
Θ(52.5°)	-10.22/-13.49	-11.75/-13.73	-9.37/-12.09	-15.09/-11.06	-9.25/-10.49	-7.01/-5.98	-4.7/-3.61	-3.43/-4.31	-7.46/-2.52	-7.35/-4.27	-6.05/-6.86	-7.48/-9.87	-7.98/-8.27	-10.34/-8.87	-11.43/-10.41	-6.39/-7.09	-7.89/-6.84	-6.14/-8.89	-7.57/-11.76	-9.34/-5.55	-5.26/-6.98	-11.97/-9.14	-6.5/-3.62	-4.24/-7.48
Θ(60°)	-7.75/-7.79	-9.91/-11.4	-9.97/-13.51	-13.89/-10.44	-13.07/-15.47	-5.97/-5.87	-4.28/-3.38	-4.46/-4.75	-9.94/-4.31	-6.37/-4.28	-5.38/-7.59	-8.13/-5.85	-9.65/-11.18	-9.08/-6.07	-8.07/-6.82	-13.02/-8.54	-11.48/-7.63	-11.41/-8.73	-5.35/-9.76	-6.47/-5.46	-4.69/-5.74	-6.31/-7.23	-6.5/-6.28	-3.75/-6.91
Θ(67.5°)	-8.03/-7.86	-8.52/-7.15	-13.41/-12.78	-10.83/-10.37	-10.75/-10.53	-4.83/-7.69	-5.73/-5.5	-4.78/-5.48	-9.16/-6.44	-7.03/-4.32	-5.59/-7.06	-4.76/-4.32	-7.19/-10.39	-7.27/-4.63	-7.71/-7.6	-10.17/-9.19	-10.6/-12.06	-10.58/-10.56	-6.55/-5.9	-2.1/-6.92	-4.14/-4.17	-4.02/-8.15	-11.77/-14.06	-7.88/-10.24
Θ(75°)	-7.79/-5.19	-9.04/-5.24	-10.26/-11.79	-8.94/-11.83	-9.9/-6.71	-8.42/-8.27	-5.71/-5.27	-8.27/-6.46	-6.58/-9.03	-5.93/-3.97	-6.62/-5.85	-4.09/-3.65	-4.1/-7.33	-6.3/-3.88	-6.06/-7	-4.35/-11.9	-8.73/-14.09	-6.91/-6.67	-8.05/-5.28	-4.77/-6.56	-3.31/-3.73	-4.47/-9.17	-13.43/-7.8	-5.92/-10.66
Θ(82.5°)	-5.09/-5.69	-6.92/-4.2	-8.21/-12.28	-9.66/-10.89	-8.03/-7.86	-9.69/-7.77	-7.67/-7.9	-8.34/-7.17	-7.81/-9.13	-7.02/-4.4	-4.74/-4.59	-2.64/-3.35	-3.24/-4.49	-4.58/-5.56	-5.26/-7.46	-4.5/-10.96	-7.72/-14.38	-6.76/-4.01	-5.79/-5.8	-5.94/-3.59	-1.65/-6.02	-7.85/-4.33	-9.85/-3.29	-2.86/-7.91
Θ(90°)	-3.79/-6.46	-5.44/-5.47	-9.19/-12.82	-10.75/-7.52	-8.43/-8.85	-11.86/-7.71	-8.05/-13.75	-9.32/-7.75	-6.9/-9.38	-8.99/-6	-6.71/-3.96	-3.83/-3.57	-2.81/-3.15	-4.74/-5.47	-6.32/-7.56	-4.42/-9.84	-7.13/-8.63	-8.14/-5.24	-10.01/-15.42	-12.94/-3.2	-2.46/-10.81	-10.82/-12.05	-8.09/-2.12	-2.95/-6.17
Θ(97.5°)	-2.63/-6.28	-5.98/-8.46	-9.93/-11.21	-12.38/-8.89	-8.75/-12.12	-13.79/-13.01	-12.35/-10.03	-9.9/-8.67	-5.78/-9.44	-8.37/-5.74	-8.2/-4.17	-3.65/-3.63	-3.38/-3.29	-5.22/-3.51	-6.95/-8.02	-7.74/-11.87	-8.62/-11.72	-11.79/-5.77	-7.98/-12.71	-12.2/-5.13	-5.58/-12.37	-11.77/-8.99	-7.4/-3.87	-2.79/-7.68
Θ(105°)	-4.27/-7.28	-5.85/-8.16	-9.56/-10.04	-10.1/-8.4	-8.61/-15.02	-14.57/-14.27	-10.3/-11.2	-9.05/-7.68	-5.8/-7.89	-10.4/-6.08	-8.97/-5.01	-5.17/-3.99	-3.89/-4.66	-7.26/-4.86	-6.68/-15.2	-7.22/-8.1	-7.93/-10.24	-15.69/-7.27	-7.36/-13.78	-14.74/-5.94	-9.69/-9.82	-11.68/-8.69	-8.25/-3.97	-4.47/-7.85
Θ(112.5°)	-3.93/-6	-9.04/-8.66	-8.96/-9.36	-9.77/-7.97	-12.49/-14.57	-15/-13.6	-15.65/-13.77	-10.23/-9.69	-5.55/-8.02	-8.83/-8.12	-8.76/-5.3	-5.35/-4.8	-4.89/-4.78	-7.71/-9.24	-12.27/-14.81	-11.71/-6.79	-10.43/-12.14	-11.98/-14.94	-11.48/-11.04	-10.69/-14.32	-13.62/-8.52	-7.32/-10.37	-7.26/-7.44	-5.91/-7.31
Θ(120°)	-5.24/-7.85	-7.56/-6.85	-8.57/-9.01	-9.77/-7.82	-10.79/-13.73	-13.47/-12.09	-12.71/-11.36	-14.06/-8.68	-6.29/-7.96	-8.97/-8.08	-7.99/-7.59	-6.76/-5.9	-6.37/-10.77	-11.09/-14.27	-11.27/-13.47	-7.69/-4.92	-8.35/-10.55	-9.88/-9.6	-15.22/-7.4	-6.59/-10.58	-6.6/-8.45	-7.85/-8.22	-6.62/-5.97	-10.31/-6.6
Θ(127.5°)	-5.18/-6.85	-4.87/-6.36	-10.44/-10.81	-8.98/-8.82	-13.09/-15.73	-15.29/-14.21	-12.38/-9.85	-8.91/-8.06	-9.71/-7.4	-13.28/-5.91	-7.25/-6.33	-7.85/-9.39	-6.11/-7.96	-14.14/-15.27	-14.26/-12.36	-10.96/-8.01	-5.39/-15.68	-9.71/-9.5	-7.08/-9.59	-11.73/-9.49	-8.09/-7.58	-10.51/-7.11	-12.11/-9.12	-5.86/-6.52
Θ(135°)	-7.3/-10.01	-6.54/-9.19	-11.64/-11.05	-7.8/-8.46	-13.96/-13.72	-15.77/-12.33	-14.95/-15.39	-10.32/-12.91	-8.5/-10.98	-10.86/-8.08	-5.62/-8.45	-7.78/-9.97	-8.01/-8.79	-9.51/-7.92	-9.98/-11.33	-10.39/-11.86	-14.88/-11.56	-11.09/-8.57	-7.94/-8.18	-9.06/-9.33	-11.48/-12.89	-11.32/-12.7	-10.53/-6.45	-6.97/-9.1
Θ(142.5°)	-9.11/-14.07	-8.31/-12.19	-13.21/-9.45	-12.54/-11.46	-12.91/-11.73	-13.49/-10.45	-12.11/-10.96	-6.95/-9.01	-6.46/-5.19	-15.95/-6.95	-5.92/-6.13	-8.26/-9.94	-8.06/-6.53	-6.27/-6.78	-7.31/-11.06	-14.64/-11.18	-13.21/-8.66	-8.45/-7.99	-10.71/-14.47	-11.61/-7.42	-8.96/-10.69	-7.03/-11.33	-11.84/-9.29	-10.31/-6.6
Θ(150°)	-12.33/-11.93	-10.13/-15.77	-10.55/-8.11	-11.31/-11.75	-9.91/-15.44	-11.96/-10.94	-10.12/-10.19	-14.18/-13.73	-10.79/-10.54	-12.39/-9.65	-8.26/-6.03	-5.84/-5.67	-5.47/-7.66	-9.22/-10.34	-13.01/-10.82	-10.77/-12.83	-13.96/-10.48	-12.21/-13.47	-10.71/-10.17	-14.78/-12.81	-11.4/-15.53	-12.44/-13.25	-9.92/-13.56	-15.15/-12.5
Θ(157.5°)	-15.02/-15.05	-15.04/-15.08	-12.7/-12.23	-14.22/-12.15	-10.46/-11.04	-13.77/-14.12	-11.72/-9.56	-10.06/-9.34	-7.13/-7.26	-7.86/-12.65	-11.34/-10.31	-7.21/-9.04	-9.73/-9.46	-8.77/-9.02	-11.83/-12.33	-13.84/-14.66	-12.28/-9.57	-11.31/-9.88	-7.07/-6.73	-7.94/-10.75	-13.2/-14.48	-15.37/-12.51	-10.13/-13.36	-14.84/-14.84
Θ(165°)	-14.89/-14.54	-14.8/-14.12	-13.26/-12.09	-12.63/-12.65	-12.35/-13.08	-11.15/-8.61	-7.03/-9.25	-8.47/-9.76	-7.49/-6.64	-5.39/-4.87	-7.28/-11.49	-11.59/-11.95	-14.97/-13.28	-10.82/-11.98	-13.86/-12.23	-11.94/-10.16	-10.19/-10.09	-12.28/-10.58	-10.2/-9.95	-12.45/-14.84	-14.66/-12.25	-12.14/-13.39	-15.2/-14.46	-15.76/-16
Θ(172.5°)	-15.04/-14.16	-12.14/-12.16	-11.92/-10.48	-10.99/-10.17	-10.81/-11.97	-10.23/-8.16	-7.42/-6.21	-6.43/-5.5	-6.01/-6.24	-7.77/-9.11	-11.51/-12.78	-13.91/-13.92	-13.35/-13.58	-12.94/-12.95	-13.13/-11.32	-9.1/-7.8	-9.24/-8.29	-9.21/-9.32	-11.11/-12.77	-13.01/-13.39	-14.95/-15.05	-13.86/-12.68	-14.06/-16.09	-15.62/-15.45
Θ(180°)	-13.32/-11.18	-9.71/-9.15	-7.25/-6.78	-6.39/-5.15	-4.77/-4.72	-5.22/-5.49	-5.39/-5.77	-5.92/-6.6	-7.68/-8.9	-11.53/-12.92	-12.44/-14	-15.16/-14.92	-13.29/-13.24	-14.91/-10.54	-10.29/-8.44	-6.84/-6.74	-7.31/-8.1	-7.86/-9.27	-8.92/-8.97	-9.11/-9.38	-8.2/-8.44	-8.52/-9.73	-11.89/-15.03	-15.43/-15.02
Freq(dB)	6.9595Pol.	ThetaL	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-7.16/-8.21	-9.41/-11.06	-10.18/-10.76	-11.03/-10.21	-9.51/-8.78	-6.6/-5.84	-4.91/-3.35	-2.94/-1.71	-2.02/-2	-1.9/-2.41	-2.63/-2.91	-3.23/-3.25	-3.83/-3.98	-4.08/-4.79	-4.79/-4.97	-4.79/-5.07	-5.42/-4.88	-5.35/-4.42	-5.18/-4.52	-4.64/-4.16	-4.44/-4.39	-4.69/-4.63	-5.52/-5.22	-6/-6.2
Θ(7.5°)	-11.48/-13.19	-14.61/-14.16	-14.08/-14.23	-11.45/-8.71	-6.52/-5.32	-4.8/-5.05	-5.75/-5.21	-4.84/-3.89	-4.41/-3.89	-3.07/-1.71	-1.1/-10.82	-0.7/-0.58	-0.95/-1.68	-1.92/-2.52	-4.29/-2.71	-3.19/-3.02	-3.28/-3.02	-3.28/-3.85	-4.18/-5.62	-6.15/-6	-5.74/-5.18	-6.01/-4.99	-6.6/-7.08	-8.71/-6.99
Θ(15°)	-5.21/-3.88	-3.14/-3.26	-3.33/-3.96	-5.29/-5.8	-5.65/-6.19	-5.75/-4.94	-4.98/-5.3	-6.89/-6.78	-5.64/-3.3	-0.89/-0.31	0.26/-0.5	0.87/-0.31	0.28/-0.45	0.60/-57	0.87/-21.1	1.18/-0.83	1.04/-102	0.4/-0.7	-1.81/-3.51	-5.06/-5.51	-5.55/-7.4	-9.31/-11.97	-12.39/-8.26	-6.54/-6.22
Θ(22.5°)	-3.43/-2.83	-2.5/-4.09	-6.44/-5.78	-4.49/-3.7	-2.75/-1.71	-1.41/-1.76	-1.17/-1.59	-1.86/-2.11	-1.40/-0.3	-0.23/-0.2	1.31/-2.44	1.82/-1.17	0.77/-0.21	0.56/-0.79	-0.74/-1.33	-0.63/-0.38	-0.02/-0.68	-1.48/-2.65	-2.93/-3.2	-3.38/-6.41	-9.32/-9.21	-7.89/-5.83	-6.62/-7.45	-5.31/-4.08
Θ(30°)	-4.39/-6.72	-5.24/-3.28	-2.2/-1.72	-2.23/-2.35	-0.79/-6.76	-1.31/-1.72	-1.45/-1.4	-0.53/-0.43	0.19/-0.79	2.54/-1.62	2.5/3	1.77/-0.87	1.04/-1.95	1.59/-0.39	-0.59/-0.63	-0.86/-1.01	0.32/-1.78	1.34/-0.54	-0.55/-1.94	-3/-2.37	-3.1/-3.39	-3.82/-2.51	-1.4/-8.02	-1.7/-2.58
Θ(37.5°)	-1.82/-0.6	0.55/-0.15	0.31/-7	1.45/-1.24	-0.19/-1.97	1.86/-0.92	1.26/-0.92	0.46/-2.47	2.10/-55	1.22/-1.45	1.51/-1.02	0.48/-2.22	1.29/-2.38	2.04/-0.35	-0.29/-0.58	1.36/-2.84	2.89/-2.6	2.87/-1.84	2.89/-2.91	2.18/-0.3	0.65/-2.82	-2.78/-4.99	-2.68/-3.39	-0.98/-0.58
Θ(45°)	-0.61/-0.68	1.83/-1.29	1.42/-82	3.46/-3.25	1.42/-0.16	0.66/-0.34	2.12/-2.29	2.51/-23	0.02/-69	0.89/-0.39	-0.83/-1.48	0.4/-0.55	1.99/-2.55	2.88/-1.62	1.84/-1.55	2.52/-3.34	3.21/-3.53	2.71/-39	0.95/-14	2.63/-1.81	2.21/-0.91	-1.85/-4.38	-0.96/-0.71	1.4/-0.05
Θ(52.5°)	2.81/-1.74	3.31/-2.63	3.01/-3.73	3.59/-	-0.22/-0.34	-0.88/-0.56	2.08/-2.25	2.42/-87	3.23/-0.3	-0.33/-2.5	0.58/-1.19	-0.06/-0.67	3.39/-2.27	1.36/-1.85	1.62/-1.04	0.67/-2.43	4.51/-4.46	2.99/-0.37	3.95/-3.33	4.98/-2.73	1.76/-1.18	-1.35/-3.23	-0.05/-1.54	4.01/-4.36
Θ(60°)	3.49/-1.67	1.43/-63	2.46/-0.3	1.44/-2.78	1.26/-1.41	2.32/-0.96	3.51/-3.48	3.44/-1.97	3.59/-94	1.89/-3.12	2.75/-1.14	2.02/-26	3.82/-2.53	0.92/-0.16	-0.28/-0.64	1.62/-1.62	3.52/-4.53	44/-25	4.92/-3.71	3.31/-3.2	3.38/-2.8	-0.93/-5.59	-2.08/-16	2.15/-5.5
Θ(67.5°)	4.84/-1.3	0.72/-0.6	3.45/-0.7	2.48/-3.2	3.22/-72	2.96/-0.6	1.46/-2.32	5.03/-0.99	2.35/-3.65	2.83/-2.64	3.92/-1.63	3.49/-3.04	0.42/-4.69	-1.46/-1.63	2.86/-0.26	2.83/-3.79	1.29/-1.12	1.43/-2.94	3.42/-3	3.93/-4.8	1.27/-3.11	-1.22/-4.02	3.35/-6.1	
Θ(75°)	5.34/-4.95	2.17/-1.7	4.18/-3	3.69/-3.12	3.09/-2.39	-0.49/-0.13	2.11/-07	4.06/-1.22	1.89/-2.05	2.99/-1.97	2.54/-2.04	4.27/-3.79												

Gain Result

Freq(Hz)	6.175GPol.		PhiAnt. 1		+		+		+		+		+		+		+		+		+		+		+		+		+	
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)						
Θ(0°)	-15.23/-15.06	-11.64/-11.68	-10.58/-10.18	-9.89/-8.23	-6.74/-6.76	-6.27/-5.76	-4.96/-4.43	-3.53/-3.3	-3.48/-3.73	-4.52/-6.98	-8.27/-9.37	-10.32/-10.12	-10.03/-10.5	-10.67/-8.89	-8.67/-8.38	-7.44/-7.61	-7.31/-6.69	-6.12/-6.04	-6.81/-7.36	-7.84/-8.28	-8.93/-9.01	-8.58/-9.4	-11.29/-10.78	-9.79/-12.26						
Θ(7.5°)	-7.5/-8.1	-8.64/-8.83	-9.48/-10.07	-12.61/-16.86	-15.65/-13.37	-14.69/-17.09	-16.65/-10.34	-6.34/-4.59	-3.87/-4.15	-6.39/-10.48	-16.27/-15.78	-13.57/-11.62	-10.34/-10.93	-12.86/-13.75	-10.13/-17.84	-8.65/-6.8	-5.86/-4.8	-4.61/-5.52	-6.87/-17.72	-8.23/-8.52	-9.11/-9.82	-10.08/-10.05	-10.32/-10.44	-9.37/-9.7						
Θ(15°)	-10.15/-13.2	-16.52/-12.99	-8.11/-5.58	-5.57/-7.77	-8.74/-6.89	-5.04/-6.08	-7.82/-10.94	-9.29/-3.77	-6.86/-6.76	-9.27/-8.19	-5.27/-5	-6.38/-9.4	-13.78/-14.97	-12.44/-10.05	-8.97/-8.47	-6.83/-5.91	-5.32/-5.1	-4.67/-4.7	-5.49/-6.34	-6.15/-5.76	-7.44/-9.54	-11.27/-12.55	-17.65/-18.79	-18.16/-11.63						
Θ(22.5°)	-9.2/-11.4	-11.31/-7.92	-7.53/-7.5	-6.67/-6.35	-7.10/-13.37	-5.64/-4.33	-4.64/-6.35	-6.32/-6.25	-7.32/-9.52	-10.4/-6.62	-4.56/-5.97	-8.4/-7.4	-12.78/-10.57	-13.71/-11.73	-9.73/-10.1	-10.7/-10.03	-13.78/-18.72	-10.57/-6.41	-5.01/-4.77	-6.53/-10.03	-13.34/-16.04	-10.57/-12.99	-11.34/-9.03	-7.89/-7.42						
Θ(30°)	-12.29/-18.24	-18.11/-19.98	-5.25/-7.47	-15.21/-18.08	-11.21/-9.34	-7.72/-3.53	-2.53/-3.6	-3.55/-2.91	-5.62/-11.38	-9.34/-5.53	-4.74/-5.97	-6.37/-6.52	-9.29/-13.96	-13.83/-11.54	-12.54/-17.42	-18.8/-16.17	-11.99/-11.69	-14.68/-18.21	-11.98/-6.62	-5.72/-10.12	-8.87/-13.22	-17.54/-10.35	-6.47/-8.34	-10.64/-7.7						
Θ(37.5°)	-7.14/-6.88	-8.35/-17.78	-11.24/-10.5	-8.01/-11.92	-11.46/-7.41	-7.54/-3.48	-2.98/-4.69	-4.95/-3.89	-6.82/-9.04	-5.07/-5.27	-6.23/-5.97	-7.26/-9.07	-17.4/-18.38	-19.02/-15.3	-12.41/-12.96	-7.25/-5.21	-5.09/-17.2	-16.99/-10.47	-8.49/-9.51	-6.59/-11.2	-14.71/-12.53	-6.45/-7.93	-5.03/-6.46							
Θ(45°)	-1.917/-1.81	-1.932/-15.2	-17.98/-19.94	-7.48/-11.04	-9.17/-6.53	-8.44/-5.96	-4.46/-5.52	-5.54/-4.9	-6.35/-7.69	-5.67/-6.73	-5.75/-5.18	-5.92/-6.74	-8.12/-12.19	-18.15/-13.89	-14.89/-15.15	-12.81/-8.58	-8.05/-9.93	-5.3/-5.7	-11.49/-8.85	-11.79/-7.43	-6.84/-12.73	-8.24/-16.7	-7.48/-4.54	-0.48/-5.46						
Θ(52.5°)	-6.23/-13.36	-15.94/-9.95	-16.99/-14.74	-11.06/-14.46	-12.91/-10.42	-13.96/-5.77	-3.8/-3.1	-5.71/-6.6	-7.21/-9.68	-5.99/-5.58	-6.08/-7.84	-9.29/-8.95	-13.68/-14.48	-18.54/-18.81	-16.69/-17.88	-18.03/-15.88	-12.31/-8.2	-5.71/-4.28	-9.94/-6.27	-8.78/-7.42	-9.08/-10.2	-7.35/-15.85	-6.65/-4.89	-2.47/-4.64						
Θ(60°)	-3.78/-7.32	-13.88/-10.23	-12.33/-17.71	-12.78/-16.11	-12.45/-14.3	-13.53/-7.44	-4.59/-7.62	-7.73/-9.25	-8.56/-15.9	-6.87/-5.4	-6.28/-9.74	-12.26/-12.66	-11.48/-14.94	-18.05/-14.7	-17.39/-17.86	-18.66/-11.44	-11.63/-10.48	-8.88/-3.63	-9.31/-5.04	-6.47/-6.42	-11.19/-5.22	-6.63/-10.7	-9.11/-10.43	-6.88/-10.6						
Θ(67.5°)	-7.39/-8.23	-9.14/-12.86	-15.35/-14.07	-9.45/-16.1	-16.25/-6.8	-9.32/-4.72	-3.88/-6.51	-7.58/-13.34	-13.5/-15.52	-7.98/-6.04	-11.43/-16.2	-14.4/-15.51	-10.98/-13.7	-18.09/-14.71	-18.52/-17.48	-18.13/-14.27	-11.63/-11.47	-9.74/-5.02	-6.95/-5.68	-4.95/-7.11	-11.84/-5.16	-11.77/-17.7	-8.51/-16.82	-9.80/-10.5						
Θ(75°)	-13.37/-14.14	-7.96/-12.35	-18.48/-14.36	-7.91/-12.1	-13.72/-6.26	-6.76/-5.89	-6.72/-7.91	-12.67/-19.14	-18.39/-15.98	-9.84/-6.57	-11.77/-14.1	-13.54/-14.92	-10.34/-10.21	-18.52/-15.45	-17.41/-17.96	-14.73/-18.12	-15.76/-17.09	-10.02/-0.56	-7.05/-8.25	-5.25/-6.05	-13.65/-6.75	-8.19/-7.34	-6.52/-9.75	-9.59/-15.54						
Θ(82.5°)	-14.82/-14.14	-7.17/-12.34	-18.07/-11.24	-9.66/-8.07	-14.7/-6.59	-6.07/-4.73	-9.85/-11.65	-18.46/-16.6	-18.71/-13.6	-13.1/-12.48	-16.37/-18.18	-15.45/-15.7	-9.51/-12	-18.08/-17.44	-18.2/-17.74	-10.85/-18.07	-18.26/-17.09	-12.2/-7.77	-11.94/-18	-8.14/-7.28	-12.81/-10.38	-10.35/-12.37	-9.23/-11.31	-8.3/-4.93						
Θ(90°)	-16.11/-16.74	-8.15/-13.78	-18.43/-10.66	-13.48/-8.57	-11.15/-9.01	-7.20/-7.16	-15.16/-13.25	-18.19/-13.46	-18.93/-12.63	-14.82/-14.57	-19.06/-19.03	-17.85/-18.44	-14/-12.42	-17.72/-19.16	-18.81/-18.05	-10.38/-18.01	-18.15/-18.86	-19.13/-12.17	-12.19/-18.92	-13.88/-9.43	-14.25/-13.78	-10.88/-18.22	-10.36/-13.21	-9.16/-9.31						
Θ(97.5°)	-15.99/-10.76	-9.27/-13.36	-18.16/-10.89	-12.18/-8.5	-18.29/-8.22	-8.16/-9.16	-18.98/-14.09	-18.08/-13.94	-18.83/-11.7	-18.4/-18.02	-18.54/-18.23	-17.93/-18.06	-10.59/-15.27	-18.69/-18.51	-16.77/-13.5	-8.7/-12.85	-17.49/-18.24	-18.28/-18.73	-19.03/-17.98	-18.81/-11.98	-11.27/-17.84	-11.58/-17.77	-12.56/-18.07	-10.63/-11.34						
Θ(105°)	-19/-14.17	-13.15/-17.36	-18.10/-10.25	-11.57/-11.09	-16.94/-10.8	-10.52/-16.1	-18.67/-14.5	-18.5/-12.36	-17.72/-14.49	-17.82/-18.48	-17.42/-18.66	-18.2/-18.12	-14.11/-16.38	-15.54/-16.6	-13.57/-17.47	-10.94/-10.17	-17.56/-16.17	-15.93/-16.65	-15.89/-16.06	-17.99/-11.58	-12.78/-18.1	-9.52/-10.65	-11.34/-13.54	-12.81/-13.54						
Θ(112.5°)	-17.4/-11.17	-13.01/-14.98	-14.50/-10.23	-11.72/-12.15	-19.57/-13.42	-17.36/-15.58	-18.53/-19.06	-15.1/-12.86	-17.17/-11.82	-17.12/-18.7	-18.88/-18.68	-18.86/-16.7	-18.1/-18.59	-16.51/-12.51	-16.55/-16.77	-15.14/-9.27	-13.45/-13.27	-13.45/-15.56	-18.0/-18.22	-15.68/-14.46	-18.07/-19.01	-11.22/-12.65	-11.93/-17.7	-12.04/-11.72						
Θ(120°)	-13.29/-15.19	-12.26/-18.07	-15.86/-11.92	-12.06/-18.99	-15.11/-16.72	-18.61/-18.28	-18.37/-18.08	-11.65/-18.19	-18.21/-11.45	-13.3/-14.71	-18.8/-15.23	-18.44/-12	-18.56/-17.86	-18.68/-12.58	-15.97/-13.81	-11.83/-13.23	-18.34/-17.87	-6.87/-13.8	-9.76/-18.5	-13.15/-6.41	-9.11/-17.85	-14.23/-8.1	-10.53/-12.26	-11.62/-9.55						
Θ(127.5°)	-12.31/-14.17	-9.31/-17.56	-15.22/-19.06	-16.67/-18.4	-18.31/-13.65	-17.99/-13.77	-18.91/-17.9	-14.65/-17.88	-18.71/-17.14	-18.44/-19.1	-12.27/-11.7	-18.34/-19.18	-9.38/-10.12	-10.77/-12.13	-11.76/-16.2	-10.53/-15.09	-8.1/-9.38	-11.58/-19.77	-12.85/-9.5	-6.02/-13.56	-16.81/-12.21	-9.62/-10.35	-6.84/-4.88							
Θ(135°)	-9.99/-17.95	-12.67/-18.39	-12.21/-15.16	-16.31/-12.64	-11.54/-18.55	-13.93/-15.74	-18.47/-16.73	-19.08/-15.21	-17.23/-15.31	-15.2/-16.12	-12.48/-13.51	-9.54/-14.4	-13.02/-13.79	-13.15/-10.84	-18.79/-13.93	-18.85/-18.39	-14.57/-14.1	-16.27/-8.84	-9.78/-7.08	-12.95/-8.81	-10.09/-10.41	-16.47/-18.46	-11.04/-13.45							
Θ(142.5°)	-13.71/-17.19	-12.28/-14.44	-19.16/-15.06	-15.81/-18.44	-13.92/-17.85	-17.77/-17.84	-13.07/-10.46	-17.13/-18.15	-16.09/-16.55	-15.34/-18.6	-18.54/-12.33	-18.38/-18.64	-18.85/-18.27	-17.44/-17.67	-18.24/-14.1	-18.25/-17.76	-15.3/-13.5	-12.45/-11.45	-18.57/-14.43	-12.78/-14.95	-11.65/-7.56	-9.2/-13.46	-10.95/-18.48	-13.31/-17.98						
Θ(150°)	-18.4/-15.31	-10.03/-12.1	-18.05/-9.61	-9.31/-14.92	-15.99/-14.85	-10.44/-14.44	-15.14/-13.4	-15.14/-13.4	-13.82/-14.77	-9.44/-9.78	-13.12/-13.73	-15.98/-17.62	-17.86/-18.22	-16.15/-11.53	-8.12/-8.4	-11.05/-15.28	-14.06/-14.52	-13.77/-11.22	-11.19/-11.14	-11.46/-13.24	-11.31/-18.6	-9.86/-10.59	-7.97/-13.71	-13.79/-11.48						
Θ(157.5°)	-18.16/-18.38	-18.28/-18.35	-16.43/-11.96	-14.09/-18.21	-14.89/-9.86	-10.2/-13.74	-17.78/-14.83	-10.35/-14.74	-8.61/-10.42	-10.2/-8.86	-11.6/-17.38	-14.93/-18.56	-16.26/-15.05	-17.49/-18.03	-18.43/-17.65	-11.14/-11.52	-8.65/-9.1	-12.23/-17.46	-17.37/-17.95	-18.67/-19.13	-16.99/-13.73	-8.65/-13.02	-18.91/-18.82	-10.35/-11.66						
Θ(165°)	-18.34/-17.43	-16.28/-17.45	-17.24/-17.75	-18.63/-15.54	-10.65/-8.07	-8.34/-10.94	-13.87/-11.15	-7.61/-6.7	-8.24/-9.43	-11.85/-12.79	-12.72/-16.97	-17.58/-17.37	-12.68/-11.28	-11.27/-12.08	-12.38/-13.78	-14.9/-13.02	-9.3/-7.95	-8.63/-10.69	-14.83/-14.61	-11.93/-10.2	-11.99/-16.24	-17.92/-17.27	-15.15/-18.18	-18.99/-17.21						
Θ(172.5°)	-15.04/-11.87	-9.6/-9.5	-9.52/-9.09	-8.67/-8.89	-8.29/-8.54	-8.86/-9.1	-9.63/-9.48	-8.71/-9.3	-10.8/-10.66	-12.37/-12.04	-12.64/-13.54	-16.48/-15.55	-18.47/-17.8	-16.19/-17.4	-15.66/-17.89	-17.71/-15.55	-14.94/-17.21	-18.4/-17.66	-17.36/-18.48	-18.96/-18.32	-18.75/-17.57	-16.65/-13.67	-17.61/-18.12	-18.17/-18.22						
Θ(180°)	-18.59/-18.27	-17.78/-18.26	-17.04/-12.3	-10.73/-11.4	-12.71/-11.96	-11.27/-10.07	-9.22/-9.56	-10.11/-11.38	-13.82/-16.16	-12.61/-17.74	-18.38/-18.37	-16.39/-16.6	-16.42/-15.79	-13.27/-10.85	-9.56/-9.86	-10.07/-10.54	-10.59/-11.47	-13.35/-14.83	-15.82/-17.67	-19.96/-17.87	-15.64/-13.67	-12.64/-13.46	-17.84/-16.93	-18.61/-17.84						
Freq(Hz)	6.175GPol.		ThetaAnt. 1		+		+		+		+		+		+		+		+		+		+		+		+		+	
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)						
Θ(0°)	-8.58/-9.92	-10.24/-10.4	-10.54/-10.61	-10.61/-10.65	-9.63/-8.54	-8.91/-9.76	-10.51/-9.7	-9.5/-8.42	-7.82/-6.65	-5.57/-9.42	-3.65/-3.37	-3.34/-3.06	-3.53/-3.8	-4.05/-5.11	-5.9/-6.14	-6.09/-6.59	-8.24/-9.9	-11.19/-12.01	-12.17/-11.99	-11.37/-11.09	-10.28/-9.9	-9.5/-8.72	-8.54/-8.55	-8.19/-8.76						
Θ(7.5°)	-12.42/-10.92	-9.47/-8.63	-8.53/-9.24	-10.53/-11.5	-10.57/-10.73	-8.14/-7.47	-6.97/-7.04	-8.34/-9.42	-8.86/-6.37	-4.34/-3.05	-1.79/-1.89	-2.19/-2.42	-2.08/-2.54	-2.02/-2.06	-2.42/-1.77	-1.47/-1.97	-3.2/-5	-6.84/-9.67	-12.09/-14	-14.48/-13.81	-15.39/-15.41	-15.78/-17.42	-17.96/-17.74	-16.79/-14.54						
Θ(15°)	-8.71/-7.54	-7.81/-6.55	-7.54/-7.65	-11.22/-12.43	-12.66/-10.73	-7.21/-7.04	-7.28/-7.45	-6.34/-3.34	-2.39/-2.55	-3.36/-4.08	-3.59/-2.16	-0.850/-39	1.081/-48	1.19/-0.04	-0.81/-1.51	1.09/-4.62	-4.09/-3.72	-4.47/-6.42	-9.31/-12	-13.73/-13.96	-11.72/-11.46	-14.53/-19.19	-18.27/-17.62	-15.98/-12.55						
Θ(22.5°)	-7.65/-9	-7.91/-7.23	-7.53/-6.71	-4.89/-4.45	-5.68/-7.41	-5.45/-3.76	-4.43/-7.14	-5.56/-1.53	-0.69/-3.69	-6.67/-3.54	-1.71/-0.5	1.182/-58	2.92/-52	2.45/-25	1.94/-37	2.06/-5.7	-3.24/-5.8	-7.08/-9.91	-8.82/-9.29	-12.49/-16.4	-13.28/-11.01	-9.23/-8.04	-8.65/-7.45	-5.92/-6.55						
Θ(30°)	-2.75/-0.97	-0.89/-1.85	-1.72/-1.96	-1.61/-1.76	-3.48/-7.09	-7.71/-4.04	-2.49/-2.63	-3.54/-2.8	-1.68/-3.3	-3.1/-1.36	-2.33/-2.27	1.01/-25	2.21/-52	1.46/-41	1.07/-0.59	0.190/-91	-0.352/-4.6	-3.22/-4.54	-6.1/-3.09	-3.28/-5.										



Radiated Composite Gain Data of 6GHz_6G Ant1~2

Appendix A.1

Θ(22.5°)	-13.98/-17.77	-15.4/-14.44	-13.83/-19.03	-10.86/-8.7	-8.77/-8.42	-9.36/-8.84	-7.95/-8.24	-8.54/-9.69	-8.15/-5.99	-6.39/-8.32	-7.41/-5.83	-6.41/-8.18	-11.54/-14.91	-14.2/-13.29	-18.64/-19.11	-13.41/-11.01	-10.15/-8.07	-7.63/-9.74	-17.3/-16.03	-11.08/-11.33	-11.84/-9.44	-7.3/-8.17	-9.88/-8.18	-8.68/-11.23
Θ(30°)	-12.02/-13.96	-13.95/-12.04	-9.38/-14.4	-13.52/-12.02	-13.24/-9.49	-7.64/-7.4	-6.18/-6.37	-10.92/-10.23	-5.41/-3.5	-5.41/-6.27	-4.78/-6.01	-8.71/-7.01	-11.85/-14.58	-18.42/-17.79	-15.12/-10.72	-10.08/-9.1	-9.59/-8.86	-11.87/-7.97	-8.3/-11.89	-9.58/-9.4	-13.93/-14.01	-7.73/-5.54	-5/-3.68	-10.31/-9.51
Θ(35°)	-9.41/-12.52	-18.77/-12.33	-8.65/-17.9	-12.58/-11.8	-9.56/-12.87	-6.61/-7.26	-6.01/-4.98	-6.37/-10.2	-6.61/-3.98	-6.49/-4.74	-5.55/-5.96	-8.45/-9	-9.81/-12.58	-18.26/-15.79	-18.25/-19	-12.93/-9.6	-9.30/-6.18	-6.42/-9.35	-7.54/-9.23	-7.97/-9.04	-16.13/-17.52	-13.33/-8.38	-5.93/-5.32	-10.16/-17.76
Θ(45°)	-12.1/-10.26	-10.03/-15.07	-13.54/-18.65	-19.02/-14.47	-7.67/-9.99	-7.88/-6.35	-6.12/-5.69	-4.91/-4.2	-8.45/-3.92	-6.76/-6.06	-6.86/-6.49	-7.31/-8.74	-8.14/-14.57	-18.38/-17.44	-17.85/-17.59	-10.48/-7.56	-7.14/-6.64	-6.14/-8.46	-4.72/-8.38	-9.09/-11.24	-9.62/-10.43	-17.45/-18.18	-10.86/-7.73	-7.89/-9.35
Θ(52.5°)	-10.08/-17.77	-12.18/-15.8	-9.13/-16.55	-18.41/-13.42	-9.79/-17.91	-13.75/-12.46	-9/-11.54	-5.77/-4.7	-9.55/-3.81	-8.31/-6.95	-7.81/-8.22	-8.83/-9.34	-12.27/-11.45	-18.61/-16.78	-15.33/-18.5	-12.29/-11.66	-9.01/-5.94	-8/-9.21	-6.38/-13.94	-11.21/-7.42	-7.24/-13.95	-18.87/-15.23	-8.9/-4.79	-2.66/-6.3
Θ(60°)	-7/-14.04	-14.5/-13.02	-9.87/-18.17	-17.87/-18.42	-10.77/-18.42	-17.87/-18.42	-10.77/-18.42	-17.87/-18.42	-10.77/-18.42	-17.87/-18.42	-10.77/-18.42	-17.87/-18.42	-10.77/-18.42	-17.87/-18.42	-10.77/-18.42	-17.87/-18.42	-10.77/-18.42	-17.87/-18.42	-10.77/-18.42	-17.87/-18.42	-10.77/-18.42	-17.87/-18.42	-10.77/-18.42	-17.87/-18.42
Θ(67.5°)	-11.78/-12.4	-12.4/-9.26	-17.83/-16.8	-13.8/-11.89	-12.14/-12.36	-4.23/-9.48	-4.98/-7.56	-12.64/-6.62	-12.28/-9.09	-10.73/-8.95	-9.51/-9.93	-10.51/-11.92	-18.27/-14.73	-18.23/-18.04	-17.83/-17.68	-17.03/-15.64	-18.32/-15.64	-11.24/-10.92	-6.03/-4.45	-3.39/-6.28	-7.09/-9.65	-3.93/-10.62	-16.21/-15.31	-15.42/-11.95
Θ(75°)	-18.03/-10.85	-13.61/-7.1	-17.09/-17.4	-12.09/-16.13	-14.15/-6.56	-7.48/-9.38	-4.28/-8	-17.73/-13.13	-13.13/-12.49	-11.42/-10.89	-12.72/-14.18	-12.06/-13.79	-18.55/-13.03	-19.35/-15.46	-19.01/-14.11	-14.5/-12.75	-18.81/-15.72	-13.05/-13.08	-7.14/-3.92	-4.76/-8.64	-4.88/-7.01	-4.71/-9.91	-14.63/-7.89	-12.61/-17.48
Θ(82.5°)	-11.91/-12.19	-11.75/-7.77	-11.93/-19.23	-11.11/-14.89	-8.54/-6.8	-9.36/-10.59	-6.59/-10.77	-17.38/-18.09	-18.96/-18.4	-13.71/-14.2	-12.47/-13.81	-10.25/-15.82	-18.52/-13.04	-14.89/-18.89	-18.72/-18.16	-16.48/-14.73	-18.47/-18.87	-13.66/-12.55	-8.01/-7.02	-6.65/-7.33	-4.66/-10.24	-7.31/-10.26	-10.98/-4.46	-7.41/-13.33
Θ(90°)	-8.39/-14.9	-9.66/-11.67	-14.88/-18.34	-11.36/-9.71	-9.92/-8.4	-12.82/-9.04	-7.83/-18.42	-19.19/-18.64	-19.1/-18.99	-19.07/-19.18	-15.34/-18.14	-15.73/-17.9	-17.89/-13.84	-18.19/-18.01	-17.95/-16.51	-18.17/-17.11	-18.07/-18.65	-16.03/-18.43	-16.7/-17.7	-13.82/-11.73	-7.25/-18.7	-13.61/-12.83	-13.61/-4.66	-7.24/-10.78
Θ(97.5°)	-5.67/-13.56	-11.21/-18.21	-15.71/-14.56	-16.78/-10.37	-9.96/-12.81	-15.15/-14.24	-13.09/-18.85	-17.76/-18.11	-18.61/-18.76	-19.28/-17.6	-18.09/-18.79	-15.39/-17.59	-18.99/-13.66	-19.01/-15.76	-15.47/-14.28	-18.16/-17.03	-15.07/-18.04	-17.45/-14.91	-15.36/-13.68	-19.12/-11.38	-10.47/-13.77	-17.44/-13.33	-18.92/-8.67	-18.13/-13.05
Θ(105°)	-7.62/-13.81	-10.02/-16.1	-18.76/-13.39	-12.74/-11.43	-11.04/-18.17	-18.23/-18.29	-17.87/-18.77	-16.57/-15.23	-12.75/-16.19	-19.02/-17.47	-18.17/-15.38	-16.82/-19.25	-18.05/-17.67	-19.09/-17.92	-18.44/-14.45	-17.54/-19.23	-18.43/-13.05	-14.38/-16.67	-18.38/-12.14	-9.49/-19.1	-17.57/-14.03	-18.16/-8.87	-11.13/-15.65	
Θ(112.5°)	-8.09/-11.31	-18.74/-15.21	-18.06/-15.65	-12.78/-10.93	-17.02/-17.14	-18.71/-18.02	-18.34/-18.75	-19.21/-14.81	-11.81/-17.92	-18.23/-18.26	-17.68/-15.42	-14.8/-18.09	-18.83/-18.06	-16.81/-18.58	-18.35/-17.31	-14.01/-13.24	-14.02/-16.91	-12.8/-17.73	-17.41/-13.93	-17.61/-18.37	-15/-15.33	-18.97/-17.06	-14.84/-17.99	-12.01/-15.11
Θ(120°)	-12.9/-14.79	-14.29/-15.93	-18.36/-15.35	-16.64/-12.81	-17.68/-16.49	-14.91/-18.44	-14.94/-14.31	-19.01/-16.37	-12.09/-13.37	-13.16/-15.53	-15.56/-18.82	-19.16/-15.65	-18.3/-18.86	-17.75/-16.94	-9.91/-10.29	-14.48/-12.34	-9.56/-9.08	-13.13/-13.35	-18.68/-7.55	-8.37/-16.63	-9.71/-14.55	-16.18/-13.43	-12.37/-12.32	
Θ(127.5°)	-12.21/-15.04	-11.11/-19.17	-19.58/-18.65	-16.62/-18.04	-18.41/-18.95	-18.83/-17.21	-18.38/-11.28	-12.59/-12.52	-15.21/-11.57	-15.01/-14.16	-10.74/-11.28	-16.28/-18.78	-18.66/-10.76	-18.4/-19.72	-17.99/-14.18	-14.98/-14.06	-16.72/-12.02	-12.55/-9.4	-7.39/-9.17	-12.29/-10.22	-13.92/-12.98	-12.55/-9.5	-18.12/-16.57	-10.19/-14.04
Θ(135°)	-16.37/-18.45	-17.58/-19.09	-17.35/-17.65	-12.48/-12.78	-18.02/-14.94	-18.3/-15.5	-18.37/-19.14	-11.49/-18.06	-14.49/-17.3	-12.59/-13.39	-13.1/-17.23	-18.42/-13.37	-13.89/-14.29	-17.88/-15.02	-15.39/-17.19	-14.66/-17.96	-17.88/-11.72	-12.53/-14.84	-9.37/-9.36	-9.04/-12.43	-11.75/-14.72	-11.59/-14.16	-10.63/-8.97	-10.31/-17.1
Θ(142.5°)	-18.56/-14.63	-11.51/-17.88	-18.63/-15.01	-15.47/-18.05	-18.08/-11.73	-14.75/-11.15	-15.69/-12.98	-8.41/-10.16	-7.74/-8.65	-11.11/-15.5	-16.87/-15.27	-17.04/-17.96	-18.81/-16.65	-14.64/-17.55	-18.28/-12.81	-16.76/-14.47	-9.29/-9.73	-11.21/-13.78	-18.14/-13.37	-8.44/-14.84	-7.46/-11.98	-15.08/-14.76	-13.57/-13.92	
Θ(150°)	-15.46/-15.27	-12.31/-19.1	-13.42/-9.49	-11.75/-13.41	-11.68/-18.06	-19.13/-14.98	-12.96/-13.91	-18.49/-16.35	-11.81/-18.02	-16.12/-11.52	-16.43/-18.6	-17.71/-17.95	-18.15/-15.45	-14.46/-11.82	-10.95/-13.6	-15.84/-14.16	-13.29/-15.03	-10.95/-9.84	-17.15/-17.77	-15.41/-14.18	-13.92/-18.96	-16.72/-17.82	-17.92/-16.37	
Θ(157.5°)	-17.19/-18.13	-18.03/-18.11	-18.58/-17.97	-19.03/-12.78	-11.19/-14.38	-17.66/-17.05	-12.04/-10.55	-11.26/-15.57	-16.49/-12.53	-12.36/-18.44	-17.68/-15.68	-16.53/-17.46	-18.14/-18.92	-11.07/-9.18	-12.23/-13.26	-15.66/-18.26	-14.78/-10.96	-12.2/-11.16	-8.05/-6.77	-6.92/-11.59	-18.12/-17.96	-17.76/-16.61	-15.2/-18.05	-17.61/-17.29
Θ(165°)	-18.87/-17.83	-17.49/-16.38	-14.38/-13.37	-14.11/-13.97	-13.67/-14.58	-12.85/-10.29	-8.94/-22.7	-9.61/-11.12	-9.79/-8.5	-7.98/-8.02	-10.44/-12.4	-14.33/-15.86	-16.95/-15.09	-16.6/-17.67	-15.94/-13.24	-12.41/-12.59	-12.09/-12.24	-12.92/-11.05	-9.91/-10.49	-13.83/-17.52	-17.05/-12.81	-12.46/-15.31	-17.81/-16.91	-18.87/-16.67
Θ(172.5°)	-17.74/-16.74	-12.97/-13.03	-13.29/-11.25	-11.07/-12.27	-11.88/-12.56	-10.71/-10.28	-10.08/-13.33	-9.92/-10.02	-9.69/-10.54	-10.82/-10.41	-11.52/-14.21	-15.09/-17.66	-18.44/-19.05	-16.07/-14.01	-14.26/-12.51	-10.25/-9.36	-10.34/-11.03	-12.18/-13	-19.11/-14.9	-17.71/-17.12	-19.03/-18.06	-15.61/-13.91	-16.49/-19.36	-18.56/-18.74
Θ(180°)	-18.64/-18.75	-18.62/-14.69	-12.96/-11.47	-10.45/-8.92	-8.17/-8.16	-8.06/-7.42	-7.71/-7.74	-7.78/-7.33	-7.93/-8.97	-12.06/-13.74	-13.79/-15.93	-18.96/-18.79	-18.46/-18.37	-18.9/-10.66	-10.46/-10.14	-9.26/-9.73	-11.64/-13.74	-15.38/-16.19	-18.04/-17.46	-18.24/-16.64	-12.93/-11.82	-10.66/-11.39	-13.9/-16.88	-17.96/-18.17
Freq(GHz)	6.995GPol.	ThetaAnt.1	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-11.1/-11.25	-11.98/-13.04	-12.74/-14.01	-15.25/-16.37	-18.37/-19.18	-16.34/-17.44	-15.84/-13.41	-11.87/-10.52	-10.26/-10.85	-10.61/-10.29	-9.52/-9.02	-8.33/-7.38	-7.18/-6.26	-5.72/-6.17	-6.39/-5.51	-5.69/-6.74	-8.32/-9.12	-9.38/-10.44	-12.15/-14.09	-14.28/-14.54	-15.66/-14.79	-13.21/-13.18	-12.86/-11.29	-10.24/-10.15
Θ(7.5°)	-12.04/-14.51	-17.57/-15.58	-15.91/-18.21	-14.45/-11.88	-10.6/-9.21	-9.07/-10.31	-12.48/-12.21	-10.83/-9.61	-10.72/-10.71	-8.9/-6.25	-4.38/-3.48	-2.44/-1.46	-1.15/-1.07	-1.51/-2.79	-1.51/-2.79	-1.51/-2.79	-1.51/-2.79	-1.51/-2.79	-1.51/-2.79	-1.51/-2.79	-1.51/-2.79	-1.51/-2.79	-1.51/-2.79	-1.51/-2.79
Θ(15°)	-7.97/-6.48	-5.56/-5.02	-4.5/-5.24	-6.72/-8.21	-8.66/-8.83	-6.16/-6.14	-9.07/-6.24	-7.33/-9.74	-3.03/-1.21	-1.12/-1.65	0.29/0.3	0.06/-0.56	0.42/0.04	-0.02/-0.89	-1.79/-3.17	-5.38/-7.77	-9.96/-10.11	-10.94/-11.1	-13.71/-12.87	-17.22/-18.45	-17.57/-10.83	-8.78/-9.82		
Θ(22.5°)	-4.94/-4.93	-4.1/-4.89	-7.4/-9.07	-9.48/-7.26	-5.33/-4.82	-5.93/-6.25	-5.02/-4.14	-4.66/-5.78	-5.91/-3.89	-2.54/-2.8	-1.92/0.45	0.57/0.47	0.93/1.15	0.45/-0.21	-2.13/-4.34	-3.56/-3.51	-5.38/-8.65	-12.6/-13.93	-13.14/-15.89	-19.17/-18.31	-14.42/-11.03	-12.45/-12.2	-7.5/-4.81	
Θ(30°)	-7.16/-8.16	-8.67/-6.57	-4.69/-3.31	-2.81/-3.24	-3.25/-3.68	-5.52/-5.13	-3.78/-3.75	-3.77/-3.29	-3/-2.89	-2.45/-1.87	0.54/-1.59	0.74/0.7	0.92/0.99	1.0/6	0.46/-0.13	-1.41/-3.6	-3.63/-2.69	-3.73/-5.73	-7.04/-5.66	-9.32/-6.89	-8.01/-10.63	-11.09/-6.54	-4.25/-4.26	-4.14/-5.51
Θ(37.5°)	-2.06/-1.06	0.12/0.75	1.06/1.86	1.5/0.13	-2.25/-2.25	-2.14/-3.33	-1.99/-2.59	-2.61/-1.5	-2.77/-1.61	-0.83/-1.21	-1.98/-2.41	0.74/0.02	1.03/0.96	1.20/5.1	0.64/-0.51	-0.33/0.01	-1.13/-2.07	-3.12/-4.79	-4.78/-3.88	-3.75/-3.49	-3.96/-7.61	-8.98/-6.51	-6.04/-6.74	-1.44/-0.56
Θ(45°)	-1.61/-0.49	1.19/0.37	0.92/2.86	3.04/2.05	0.15/-1.06	-1.39/-1.89	-1.15/-1.6	-1.49/-0.67	-0.96/1.48	-0.61/-1.01	-1.11/-1.72	0.53/1.68	3.21/1.41	1.39/0.05	-0.56/0.38	-1.81/-3.42	-5.37/-0.6	-3.03/-3.41	-3.3/-3.1	-5.4/-8.57	-1.98/-0.38	-1.92/-0.34		
Θ(52.5°)	2.99/0.13	1.72/2.29	3.47/4.35	2.81/2.25	0.41/-0.54	-2.74/-3.74	-0.66/-1.39	-0.28/-0.11	0.65/2.83	-1.41/-3.6	0.12/-1.89	-1.71/-1.59	2.11/2.19	2.38/0.17	-0.52/-2.8	-1.27/-0.82	-0.76/0.66	-2.32/-2.62	-3.43/-6	-1.85/-4.5	-6.83/-4.13	-2.81/-6.52	0.22/1.97	2.99/3.41
Θ(60°)	2.96/1.06	-2.84/1.23	2.97/3.46	0.66/2.57	0.78/0.12	0.56/-1.98	1.85/0.15	2.3/-0.64	0.11/2.58	0.23/2.42	2/-3.42	-2.03/-0.94	1.95/1.91	2.03/-0.98	-2.32/-2.7	-1.04/-2.29	-0.14/0.53	0.16/-1.08	1.24/-1.42	-2.7/-2.32	-3.78/-3.3	-2.18/-7.02	-0.38/2.18	1.75/3.7
Θ(67.5°)	3.69/2.79	-1.22/-0.91	3.89/3.8	1.91/2.73	2.13/0.91	0.59/-1.47	1.11/0.18	3.08/0.33																



Radiated Composite Gain Data of 6GHz_6G Ant1~2

Appendix A.1

Θ(75°)	-10.9/-8.23	-7.93/-7.12	-8.46/-9.36	-12.42/-12.24	-11.29/-12.58	-12.04/-8.97	-10.46/-12.18	-14.93/-13.99	-7.86/-9.01	-4.47/-6.31	-6.14/-4.45	-3.22/-2.31	-3.5/-5.75	-5.32/-5.58	-3.5/-6.12	-6.39/-9.4	-12.13/-12.3	-9.13/-9.23	-12.57/-14.39	-8.38/-17.89	-7.8/-10.92	-12.39/-8.68	-11.74/-14.31	-9.65/-7.49
Θ(82.5°)	-9.68/-8.08	-6.96/-7.62	-7.02/-6.78	-10.94/-10.45	-11.55/-13.24	-13.7/-10.28	-11.38/-10.07	-13.23/-11.1	-8.05/-8.26	-5.8/-6	-5.17/-4.51	-1.75/-1.79	-2.55/-3.36	-4.41/-4.85	-3.53/-4.16	-5.84/-6.22	-8.77/-13.97	-5.64/-8.2	-7.95/-9.24	-3.77/-12.82	-9.31/-10.86	-13.59/-11.96	-9.04/-12.74	-7.71/-6.3
Θ(90°)	-12.48/-6.44	-6.64/-7.01	-5.38/-7.05	-9.68/-11.01	-10.83/-12.35	-15.81/-15.52	-12.71/-11.15	-13.62/-9.5	-7.55/-5.48	-2.65/-6.49	-2.21/-7.4	-2.28/-2.04	-5.65/-6.2	-5.95/-6.51	-7.41/-6.22	-6.24/-14	-6.3/-6.91	-9.07/-16.18	-5.65/-13.09	-10.77/-13.54	-11.82/-9.74	-6.88/-7.94	-6.14/-7.26	
Θ(97.5°)	-12.65/-6.05	-6.42/-7.68	-6.35/-6.85	-10.92/-12.53	-14.84/-10.31	-13.89/-17	-14.13/-13.79	-11.25/-11.55	-10.21/-9.81	-5.11/-9.95	-4.84/-3.13	4.77/-1.32	-2.4/-3.05	-2.87/-6.54	-9.75/-6.6	-7.1/-8.28	-6.41/-17.98	-8.2/-8.41	-14.16/-17.31	-6.76/-12.03	-16.68/-18.7	-16.08/-8.29	-6.48/-6.34	-4.45/-7.17
Θ(105°)	-8.69/-6.05	-5.49/-6.21	-4.41/-6.76	-10.58/-12.77	-11.71/-10.23	-16.27/-13.7	-18.36/-14.54	-12.18/-9.2	-9.98/-16.89	-5.53/-9.79	-6.39/-4.18	-6.37/-4.53	-2.51/-4.43	-6.22/-4.72	-13.3/-10.69	-7.93/-7.8	-5.76/-11.19	-12.79/-8.77	-13.32/-15.73	-10.97/-16.7	-13.84/-18.8	-11.08/-9.96	-5.83/-6.75	-5.67/-7.88
Θ(112.5°)	-7.24/-4.89	-6.16/-6.2	-4.65/-9.1	-10.51/-12.78	-12.47/-16.36	-16.56/-16.04	-15.81/-15.22	-10.8/-9.02	-11.23/-18.19	-6.89/-9.92	-8.5/-11	-6.37/-5.98	-5.8/-4.99	-8.99/-7.81	-10.52/-14.27	-9.97/-6.59	-7.82/-11.93	-11.5/-18.5	-9.7/-18.02	-11.84/-10.73	-18.04/-18.11	-9.5/-7.68	-8.45/-7.92	-6.92/-7.09
Θ(120°)	-7.25/-5.85	-6.24/-5.99	-8.53/-12.39	-11.18/-11.12	-11.43/-13.27	-17.88/-18.73	-17.39/-12.73	-10.4/-15.87	-7.63/-17.54	-6.14/-12.07	-6.46/-7.42	-10.63/-7.6	-14.81/-7.48	-8.16/-10.48	-17.8/-18.53	-18.1/-7.26	-10.01/-11.65	-11.74/-17.59	-12.48/-18.12	-14.26/-15.39	-8.12/-17.34	-12.94/-7.38	-15.62/-6.92	-9.43/-6.57
Θ(127.5°)	-8.08/-7.36	-9.44/-8.08	-9.41/-11.69	-17.07/-14.3	-15.22/-12.18	-18.87/-16.45	-14.11/-17.96	-18.62/-13.22	-8.09/-19.01	-6.94/-5.71	-13.06/-7.33	-10.44/-9.76	-11.04/-9.52	-17.92/-16.08	-13.96/-10.81	-13.14/-13.71	-13.53/-14.46	-12.54/-16.03	-11.21/-17.04	-19.07/-18.14	-6.38/-16.78	-15.7/-18.64	-15.08/-10.89	-12.03/-5.95
Θ(135°)	-9.85/-8.04	-6.6/-7.76	-9.9/-13.49	-13.25/-11.17	-11.45/-14.87	-16.19/-18.31	-18.05/-19.04	-17.21/-10.52	-13.27/-11.66	-11.44/-3.99	-10.55/-8.94	-10.54/-8.76	-12.9/-9.31	-7.5/-11.66	-12.49/-10.9	-17.77/-13	-17.41/-17.91	-18.24/-18.21	-9.26/-15.08	-17.36/-11.34	-14.84/-18.25	-18.79/-19.02	-18.37/-14.41	-11.5/-8.15
Θ(142.5°)	-9.54/-8.51	-7.92/-7.55	-10.23/-13.99	-16.89/-17.73	-17.65/-18.13	-18.16/-17.69	-18.96/-17.16	-13.14/-12	-11.16/-16.89	-7.6/-43	-7.24/-4.09	-9.4/-9.87	-6.87/-8.25	-7.47/-9.16	-11.22/-13.23	-18.51/-17.37	-19.06/-16.4	-16.7/-15.88	-9.13/-11.53	-15.38/-11.58	-12.78/-15.91	-17.69/-14.45	-17.01/-13.52	-10.8/-10.63
Θ(150°)	-12.23/-11.63	-10.72/-10.88	-13.73/-18.78	-14.95/-13.07	-17.36/-17.63	-17.96/-18.21	-11.92/-9.09	-11.25/-14.5	-10.2/-7.91	-8.4/-9.26	-7.13/-8.73	-13.96/-15.54	-18.19/-18.08	-18.16/-17.8	-17.77/-18.26	-18.19/-18.77	-17.61/-18.77	-18.77/-11	-16.88/-12.73	-18.77/-11	-16.88/-12.73	-9.6/-11.61	-10.95/-11.82	
Θ(157.5°)	-18.47/-18.14	-15.27/-13.71	-15.54/-16.02	-12.79/-12.18	-13.01/-17.69	-18.63/-18.76	-17.89/-11.93	-12.37/-15.06	-18.63/-15.38	-14.85/-14.79	-10.65/-9.01	-10.47/-10.33	-8.55/-8.53	-14.25/-18.27	-17.46/-17.87	-16.79/-16.18	-16.28/-17.37	-12.5/-11.54	-11.75/-14.22	-18.04/-16.15	-14.32/-10.55	-13.94/-9.68	-9.59/-9.36	-9.08/-13.72
Θ(165°)	-11.56/-14.78	-18.71/-18.44	-17.75/-17.79	-15.25/-16.69	-15.24/-13.83	-13.07/-12.86	-14.38/-12.05	-10.54/-8.55	-7.96/-10.69	-13.99/-18.86	-13.36/-14.84	-17.55/-13.51	-10.97/-10.99	-16.31/-15.13	-12.24/-10.31	-11.51/-14.48	-15.98/-16.83	-14.87/-12.38	-17.13/-18.13	-18.91/-14.4	-13.15/-17.98	-14.1/-13.18	-15.53/-13.13	-11.14/-11.68
Θ(172.5°)	-10.19/-9.76	-10.82/-13.37	-12.26/-12.1	-14.28/-14.25	-13.49/-15.8	-17.96/-16.64	-15.31/-12.7	-15.37/-12.43	-16.81/-12.84	-11.86/-13.69	-14.34/-15.91	-12.64/-11.07	-10.83/-11.88	-12.93/-13.27	-17/-17.01	-16.25/-19.26	-18.49/-18.84	-16.75/-16.73	-14.77/-15.44	-15.11/-13.6	-16.38/-18.29	-18.66/-18.85	-15.56/-14.1	-14.37/-12.29
Θ(180°)	-9.14/-8.08	-8.14/-8.86	-9.54/-9.61	-9.35/-12.41	-13.6/-16.52	-15.7/-15.25	-12.83/-18.32	-13.28/-15.09	-10.67/-9.61	-9.92/-10.2	-12.04/-16.23	-16.58/-17.29	-18.47/-18.28	-15.75/-15.22	-10.81/-11.05	-10.48/-11.07	-11.32/-19.14	-12.09/-14.77	-15.84/-15.78	-15.79/-15.06	-14.98/-13.39	-12.83/-12.41	-10.67/-9.52	-10.18/-9.08
Freq(Hz)	6.175GPol.	ThetaAnt. 2	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-9.62/-10.87	-11.43/-12.17	-12.49/-14.38	-14.84/-12.51	-13.72/-12.67	-12.04/-10.43	-10.38/-8.08	-8.61/-8.13	-6.74/-7.52	-8.34/-7.98	-8.06/-9	-9.68/-10.83	-11.88/-13.31	-14.87/-12.8	-14.78/-13.74	-13.71/-12.53	-9.53/-11.08	-8.13/-9.8	-7.93/-9.85	-8.64/-8.69	-9.03/-9.07	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(7.5°)	-13.56/-15.27	-18.16/-18.67	-17.69/-14.36	-16.55/-16.42	-17.76/-18.22	-12.25/-8.62	-6.14/-3.99	-2.72/-2.66	-1.86/-2.32	-3.2/-3.81	-4.55/-5.7	-6.82/-6.94	-7.13/-7.64	-8/-9.03	-10.22/-11.42	-12.15/-13.42	-13.04/-13.51	-16.21/-11.92	-13.87/-11.55	-14.46/-12.11	-17.71/-14.45	-14.03/-11.69	-14.1/-12.23	-12.15/-12.26
Θ(15°)	-10.79/-11.49	-13.62/-13.84	-11.13/-13.07	-9.17/-8.97	-8.41/-8.19	-8.26/-7.15	-7.86/-5.98	-5.86/-5.19	-5.59/-5.27	-6.53/-6.88	-7.31/-7.55	-7.87/-8.85	-10.64/-11.48	-12.88/-12.12	-10.57/-13.89	-13.69/-8.52	-9.12/-8.59	-7.21/-7.89	-5.5/-6.96	-7.44/-12.92	-13.43/-17.39	-15.55/-18.11	-17.21/-17.71	-13.21/-11.7
Θ(22.5°)	-9.36/-9.65	-6.65/-4.21	-4.52/-6.45	-7.92/-6.41	-8.54/-8.22	-7.92/-6.36	-6.53/-5.78	-7.52/-8.85	-10.43/-4.79	-3/-2.4	-4.1/-7.38	-10.87/-7.18	-11.22/-13.59	-10.73/-4.78	-9.35/-12.71	-9.58/-12.76	-9.08/-5.6	-4.39/-4.1	-4.65/-5.32	-4.21/-1.85	-14.22/-7.2	-5.97/-6.77	-10.92/-9.24	
Θ(30°)	-4.84/-5.45	-5.86/-5.2	-4.73/-4.81	-4.21/-2.99	-4.19/-4.02	-3.21/-3.13	-3.02/-3.87	-3.79/-2.89	-1.87/-5.7	-5.46/-1.04	-0.18/-2.77	-5.66/-2.86	-2.21/-4.13	-5.1/-3.93	-5.18/-7.74	-6.51/-4.27	-3.34/-2.77	-2.5/-2.13	-2.4/-1.31	-2.38/-4.21	-2.93/-2.85	-6.04/-7.06	-7.55/-11.02	-7.26/-5.11
Θ(37.5°)	-5.82/-3.87	-4.33/-3.35	-2.49/-3.37	-4.69/-4.17	-7.2/-3.81	-3.22/-3.41	-3.91/-3.32	-3.59/-2.72	0.33/-0.15	-0.53/-0.59	-0.5/-1.84	-2.2/-1.1	-0.1/-2.76	-6.42/-6.46	-3.87/-1.96	-2.58/-4.1	-1.19/-2.09	0.31/-3.6	0.63/-5.99	-0.91/-3.6	-4.53/-10.3	-10.68/-7.3		
Θ(45°)	-4.55/-4.47	-0.87/-1.23	-2.97/-4.03	-2.22/-1.36	-0.92/-1.77	-1.9/-1.69	-0.7/-4.22	-1.25/-1.15	0.78/-1.15	1.11/-1.31	-0.01/-0.58	-1.24/-1.08	-0.21/-2.55	-6.21/-6.55	-3.45/-0.04	-2.19/-2.98	-0.33/-1.03	-2.21/-2.56	-1.62/-0.83	1.65/-1.7	-0.10/-5.6	-3.67/-6.13	-6.95/-9.37	-4.31/-4.95
Θ(52.5°)	-0.93/-3.99	0.6/-2.49	-2.88/-3.59	-2.46/-0.41	-0.5/-2.98	-4.21/-0.53	0.8/-0.6	-3.12/-1.36	-0.95/-0.95	-1.65/-1.2	0.61/-0.88	-0.15/-1.04	-1.75/-1.72	-4.26/-10.11	-3.38/-0.18	-1.83/-1.99	0.06/-2.21	2.67/-2.3	2.41/-3.9	4.11/-3.71	0.77/-0.35	-2.9/-7.97	-6.13/-5.85	-2.49/-1.33
Θ(60°)	1.46/-2.66	0.16/-0.27	0.04/-3.57	-1.84/-0.57	0.38/-2.12	-2.27/-0.33	2.11/-4.2	-1.8/-2.8	-2.87/-2.15	-1.66/-2.05	-0.17/-0.02	0.12/-0.1	-1.43/-0.09	-2.53/-13.2	-0.88/-0.13	1.18/-1.48	3.96/-1.34	2.61/-3.1	0.35/-0.85	2.57/-3.16	1.67/-1.71	-3.15/-7.07	-6.65/-9.34	-3.11/-3.01
Θ(67.5°)	2.6/-2.08	-0.05/-1.33	-0.82/-2.69	-0.51/-0.47	0.94/-3.32	-2.40/-0.1	0.27/-1.19	0.06/-1.45	-4.75/-3.89	-1.8/-0.59	-0.43/-0.78	0.03/-0.6	-1.89/-8.46	-1.26/-4.07	1.65/-0.01	-2.94/-0.34	-1.89/-5.46	-3.32/-0.85	2.23/-2.7	1.33/-0.6	-5.35/-5.24	-3.43/-4.09	-4.35/-2.12	
Θ(75°)	2.6/-0.44	-0.87/-1.2	-0.45/-2.09	-0.63/-0.51	-0.04/-3.47	-3.13/-0.32	0.08/-1.38	-0.44/-0.46	-3.11/-6.66	-2.63/-1.63	-0.76/-1.83	-0.03/-0.6	0.1/-0.51	-1.63/-5.3	-1.75/-3.73	0.77/-1.97	0.16/-0.97	2.99/-1.32	1.83/-2.01	2.48/-2.93	1.18/-1.11	-9.62/-4.89	-2.75/-4.23	-6.68/-0.31
Θ(82.5°)	1.18/-0.21	-1.43/-0.72	-1.45/-1.11	-0.94/-1.65	-3.01/-3.89	-2.94/-0.61	1.09/-1.2	-1.82/-0.23	-2.84/-7.74	-4.32/-2.41	-1.27/-1.74	-0.93/-1.58	-0.9/-1.62	-4.19/-2.29	-18.61/-4.23	-2.29/-2.49	0.56/-2.17	4.31/-3.72	2.95/-5.31	2.88/-3.1	-0.73/-0.71	-11.54/-7.44	-4.49/-3.31	-5.62/-0.15
Θ(90°)	-0.3/-1.96	-2.16/-0.25	-1.82/-1.76	-1.24/-3.26	-5.84/-7.1	-3.11/-0.35	0.02/-0.4	-1.73/-0.92	-3.74/-0.67	-7.91/-2.75	-3.42/-1.22	-1.61/-0.43	-3.15/-3.09	-5.31/-2.62	-17.65/-6.11	-2.83/-1.53	0.33/-1.48	2.55/-3	1.82/-2.81	1.78/-1.65	-2.69/-0.44	-13.29/-9.96	-7.02/-3.47	-5.82/-0.14
Θ(97.5°)	-1.65/-4.54	-4.6/-3.01	-3.3/-3.12	-2.35/-4.91	-8.15/-4.19	-3.98/-1.47	-1.48/-1.16	-4.57/-1.94	-3.16/-5.6	-10.26/-3.58	-4.43/-0.54	-3.41/-9.46	-8.44/-5.03	-9.67/-4.84	-17.12/-6.5	-2.41/-1.46	-0.81/-3.31	-1.44/-1.91	-1.64/-0.21	-1.24/-1.71	-9.43/-3.49	-15.17/-12.37	-7.79/-4.9	-5.68/-1.38
Θ(105°)	-3.41/-6.39	-6.14/-6.22	-4.26/-4.84	-4.54/-6.31	-7.12/-4.35	-3.08/-7.36	-3.56/-1.63	-4.57/-4.23	-1.63/-7.27	-9.58/-4.79	-7.67/-1.52	-4.6/-2.9	-10.32/-7.2	-9.28/-11.02	-14.89/-13.69	-5.41/-4.35	-6.23/-9.61	-4.07/-4.33	-5/-2.92	-4.67/-5.89	-5.82/-6.32	-18.96/-9.15	-13.99/-9.3	-9.88/-5.75
Θ(112.5°)	-8.14/-6.78	-7.02/-6.18	-5.92/-5.73	-10.39/-9.7	-6.85/-3.79	-2.01/-3.26	-2.13/-2.34	-6.6/-3.13	-3.99/-8.29	-5.67/-5.81	-9.71/-14.05	-8.05/-13.06	-16.46/-19.35	-9.52/-17.94	-11.04/-15.7	-11.23/-12.51	-6.59/-9.41	-3.72/-9.43	-5.55/-3.77	-11.76/-8.85	-14.75/-16.1	-12.74/-15.22	-15.37/-18.57	-10.57/-9.82
Θ(120°)	-19.48/-9.18	-8.95/-4.99	-5.73/-5.99	-9.24/-11.32	-5.76/-4.55	-6.71/-5.4	-3.07/-3.3	-1.74/-2.61	-7.09/-3.79	-6.29/-9.11	-11.94/-8.24	-9.51/-12.27	-16.54/-8.62	-7.59/-7.99	-7.54/-10.17	-12.33/-13.04	-5.38/-11.18	-5.61/-10.3	-3.58/-4.69	-8.15/-12.59	-9.81/-6.4	-8.37/-9.13	-10.9/-19.57	-14.25/-10.89
Θ(127.5°)	-17.53/-11.47	-																						



Radiated Composite Gain Data of 6GHz_6G Ant1~2

Appendix A.1

Θ(127.5°)	-5.45/-8.99	-5.53/-4.88	-9.89/-10.73	-8.28/-8.24	-14.27/-18.53	-17.87/-17.23	-14.6/-12.69	-11.3/-9.82	-10.78/-9.39	-17.79/-5.68	-9.81/-7.76	-7.55/-8.76	-4.68/-11.19	-16.05/-18.61	-16.6/-16.76	-13.07/-8.78	-7.69/-18.74	-9.98/-18.36	-14.02/-18.36	-18.18/-15.6	-12.45/-8.72	-14.6/-10.91	-12.9/-9.21	-7.73/-6.58
Θ(135°)	-6.78/-9.7	-5.45/-8.41	-12.6/-11.53	-9.41/-10.33	-16.03/-19	-19.28/-15.19	-17.57/-17.72	-15.67/-14.21	-9.29/-11.6	-15.37/-9.28	-5.7/-8.02	-6.79/-12.61	-8.86/-9.87	-9.23/-8.16	-11.12/-12.2	-12.3/-12.59	-17.9/-18.84	-16.01/-9.21	-12.88/-13.52	-16.76/-12.25	-18.51/-17.27	-18.36/-17.61	-17.96/-9.99	-9.67/-8.96
Θ(142.5°)	-8.46/-11.28	-11.14/-13.16	-14.33/-10.49	-15.17/-11.94	-14.2/-19.39	-18.69/-16.63	-14.59/-11.25	-11.86/-14.38	-11.64/-7.78	-13.49/-8.62	-4.85/-5.58	-7.83/-9.79	-8.01/-6.02	-5.04/-6	-11.18/-11.6	-17.07/-15.5	-15.72/-9.58	-14.36/-12.5	-9.86/-15.17	-12.13/-10.49	-18.11/-12.7	-13.74/-17.59	-14.62/-10.39	-13.5/-5.92
Θ(150°)	-15.22/-14.63	-14.33/-18.47	-13.71/-13.12	-17.96/-14.24	-14.37/-18.85	-12.17/-13.03	-13.31/-12.72	-16.06/-17.15	-13.43/-10.62	-13.05/-13.03	-8.06/-4.6	-4.46/-4.93	-4.07/-6.76	-8.74/-11.66	-17.93/-16.45	-17.99/-18.86	-18.28/-12.86	-17.7/-18.22	-17.82/-18.69	-18.49/-14.23	-13.52/-18.97	-17.31/-14.21	-10.3/-15.48	-18.41/-14.71
Θ(157.5°)	-18.96/-17.99	-18.08/-18.08	-13.55/-13.17	-15.74/-18.44	-16.57/-13.74	-15.26/-17.21	-18.66/-15.21	-15.35/-10.01	-11.65/-8.48	-9.59/-13.56	-11.95/-11.46	-6.61/-8.74	-9.44/-8.81	-12.56/-16.29	-18.6/-18.07	-18.24/-17.12	-15.8/-14.58	-17.14/-15.06	-12.73/-17.27	-18.69/-16.65	-14.64/-17.04	-19.05/-14.55	-11.47/-14.96	-18.09/-18.44
Θ(165°)	-17.03/-17.28	-18.15/-18.18	-18.68/-17.26	-17.49/-17.76	-17.45/-18.08	-15.7/-13.18	-11.29/-16.85	-13.86/-14.81	-11.27/-10.98	-8.84/-7.74	-10.14/-17.28	-14.88/-14.15	-19.14/-17.68	-11.73/-12.94	-17.92/-17.85	-18.57/-13.8	-14.48/-14.06	-18.56/-17.19	-18.64/-16.43	-17.48/-18.2	-18.34/-18.69	-19.08/-17.67	-18.62/-18.07	-18.68/-19.36
Θ(172.5°)	-18.38/-17.63	-18.08/-18.03	-16.96/-16.53	-18.45/-15.64	-16.17/-18.35	-16.85/-12.17	-10.79/-8.24	-8.98/-7.23	-8.39/-8.13	-10.74/-14.26	-19.15/-17.72	-19.25/-16.25	-14.68/-14.68	-15.84/-18.47	-18.54/-16.63	-14.49/-12.55	-14.7/-11.58	-12.26/-11.7	-13.08/-13.72	-14.61/-14.33	-17/-18.07	-18.78/-17.94	-17.7/-18.84	-18.7/-18.18
Θ(180°)	-14.5/-11.22	-9.17/-9.28	-8.21/-8.39	-8.46/-7.46	-7.41/-7.33	-8.41/-9.73	-9.16/-9.96	-10.26/-12.7	-14.75/-16.38	-17.99/-18.88	-17.51/-18.25	-17.44/-16.56	-14.57/-14.55	-17.04/-17.9	-17.55/-13	-10.48/-9.77	-9.18/-9.1	-7.92/-9.6	-8.38/-8.65	-8.57/-9.55	-9.78/-11.09	-12.25/-14.34	-16.03/-19.39	-18.94/-17.89
Freq(Hz)	6.895GPol.	ThetaAnt.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-9.33/-11.2	-12.88/-15.23	-13.67/-13.54	-12.98/-10.91	-9.06/-7.85	-5.87/-4.37	-3.85/-2.52	-2.46/-1.28	-1.78/-1.55	-1.5/-2.32	-2.97/-3.64	-4.55/-5.27	-6.51/-7.79	-8.72/-9.82	-9.49/-11.44	-10.59/-9.67	-8.54/-6.81	-7.45/-5.2	-5.48/-3.84	-3.94/-3.24	-3.31/-3.47	-4.35/-4.28	-5.65/-5.97	-7.94/-8.37
Θ(7.5°)	-17.91/-18.31	-17.65/-19.11	-18.45/-16.36	-14.47/-11.57	-8.58/-7.54	-6.76/-6.27	-6.17/-5.49	-5.64/-4.84	-5.03/-4.26	-3.96/-3.42	-3.84/-4.2	-5.21/-6.43	-8.15/-11	-10.64/-9.55	-7.27/-5.84	-4.34/-2.67	-2.7/-2.4	-2.63/-3.07	-3.06/-4.45	-4.83/-4.52	-4.51/-3.44	-5.82/-7.83	-11.05/-15.09	
Θ(15°)	-8.48/-7.32	-6.79/-7.72	-8.61/-9.13	-10.24/-9.45	-8.66/-9.58	-9.51/-10.09	-10.32/-11.27	-8.48/-7.93	-6.33/-5.37	-4.43/-3.73	-4.77/-5.88	-7.11/-7.49	-7.4/-6.84	-5.87/-4.84	-4.29/-4.13	-4.11/-3.69	-2.15/-0.95	-0.52/-0.95	-2.03/-4	-5.91/-6.53	-6.44/-8.5	-9.19/-12.51	-13.67/-11.73	-10.39/-9.67
Θ(22.5°)	-8.26/-6.86	-7.2/-10.06	-12.14/-8.52	-5.89/-6.2	-6.22/-4.62	-3.13/-3.5	-3.42/-5.08	-5.08/-4.1	-3.14/-2.15	-4.01/-3.64	-1.48/-1.73	-4.33/-6.11	-6.41/-8.11	-8.06/-7.79	-12.21/-12.48	-5.46/-2.54	-2.54/-3.88	-3.7/-3.44	-2.22/-2.19	-2.64/-5.76	-8.55/-8.68	-8.41/-7.09	-7.51/-9.01	-9.23/-10.2
Θ(30°)	-7.64/-11.65	-7.85/-6.01	-5.76/-6.43	-8.64/-8.16	-4.38/-3.87	-3.27/-4.35	-5.19/-5.13	-3.32/-1.93	-2.65/-1.59	1.14/-0.93	-1.71/-1.25	-3.82/-6.38	-5.32/-3.75	-4.81/-11.02	-11.48/-9.63	-7.32/-4.56	-1.85/-0.02	0/-0.1	-1.09/-1.96	-3.62/-4.1	-4.58/-3.43	-4.58/-3.43	-5.31/-5.67	
Θ(37.5°)	-8.91/-7.24	-6.16/-9.16	-9.54/-6.37	-6.33/-3.79	-4.27/-8.98	-8.89/-4.58	-1.52/-1.61	-2.50/32	0.62/-3.41	-2.87/-1.93	-1.05/-3.7	-7.82/-4.97	-5.78/-2.59	-3.87/-7.71	-10.71/-8.42	-3.2/-0.35	0.780/99	2.071/38	2.9/2.53	1.35/-0.7	-1.01/-4.35	-3.46/-9.79	-5.36/-6.07	-7.63/-8.28
Θ(45°)	-6.24/-4.68	-4.46/-4.48	-5.19/-4.93	-3.25/-3.98	-3.78/-5.1	-3.43/-3.52	-0.630/08	0.38/-0.76	-3.16/-2.6	-3.94/-4.6	-6.13/-2.65	-9.27/-5.9	-2.92/-3.32	-6.64/-5.55	-4.74/-3.28	-0.430/-43	0.891/34	0.96/-0.13	0.291/7.1	1.650/56	1.3/-1.2	-4.35/-6.36	-6.57/-9.22	-7.67/-7.73
Θ(52.5°)	-5.28/-2.94	-1.39/-2.46	-5.87/-5.62	-2.42/-3.08	-9.61/-7.53	-5.21/-3.41	-1.21/-0.17	-0.911/74	-0.24/-4.17	-5.85/-2.9	-6.07/-1.75	-4.68/-3.16	-1.79/-5.19	-9.41/-2.74	-2.35/-1.22	-3.56/-0.34	3.29/2.18	1.82/1	3.84/3.94	4.62/2.38	2.12/-0.01	-6.24/-5.96	-8.4/-7.24	-1.61/-1.36
Θ(60°)	-3.01/-1.62	-0.96/-2.37	-6.56/-5.77	-4.59/-4.4	-5.34/-3.76	-2.14/-2.13	-1.090/77	-1.95/-1.45	1.02/-1.11	-2.71/-3.05	-3.31/-0.55	-0.06/-0.79	-0.5/-3.79	-10.19/-6.1	-4.34/-2.06	-1.76/-0.57	1.12/2.4	2.013/07	2.53/2.41	2.52/2.14	3.16/2.07	-6.16/-10.44	-16.17/-7.62	0.61/1.2
Θ(67.5°)	-0.65/-0.94	-2.79/-3.14	-5.37/-6.67	-3.94/-3.41	-2.3/-1.68	-0.77/-4.73	-5.4/-1.65	0.82/-6.62	-0.73/-1.59	-1.02/-3.85	-1.34/0.74	2.980/82	-0.62/-1.84	-7.73/-13.05	-5.53/-0.87	0.99/-4.19	-0.440/-62	-4.62/-2.22	-6.68/-0.07	1.370/64	3.041/94	-3.7/-11.8	-16.66/-12.86	1.042/81
Θ(75°)	0.64/-0.66	-2.61/-1.42	-4.43/-5.51	-3.06/-1.48	-3.74/-1.3	-3.42/-4.65	-1.92/-3.04	-0.95/-3.18	-1.084/-0.9	-1.34/-0.49	-1.021/05	-3.892/06	-0.71/-0.88	-4.31/-10.86	-4.86/-2.09	1.094/-3.39	-0.421/55	1.79/-3.08	1.590/87	3.481/02	2.230/7	-7.82/-9.66	-8.23/-8.85	0.362/73
Θ(82.5°)	0.73/-0.81	-3.12/-1.86	-6.8/-5.09	-2.9/-1.66	-5.29/-2.88	-6.52/-4.42	-4.1/-3.35	-2.26/-2.44	-1.336/-619	-3.11/-2.32	-1.891/17	2.841/95	-1.15/-3.54	-5.12/-5.32	-12.16/-2.86	-1.63/-0.59	0.972/98	3.94/-4.04	4.481/98	3.931/94	0.53/-1.58	-10.3/-9.67	-6.99/-7.14	-0.841/98
Θ(90°)	-0.22/-1.46	-2.46/-3.91	-4.82/-4.67	-4.04/-1.61	-6.22/-4.55	-4.22/-5.46	-5.6/-5.58	-1.7/-2.02	-3.28/-6.37	-6.33/-2.67	-3.92/-1.36	0.650	1.74/-7.68	-6.22/-4.91	-1.878/-6.52	-3.94/-1	0.312/1	3.23/-3.77	3.80/97	1.430/53	0.21/-3.87	-12.79/-12.27	-7.29/-8.06	-0.920/46
Θ(97.5°)	-2.46/-2.47	-2.97/-5.1	-5.1/-6.04	-3.66/-2.94	-7.06/-6.78	-5.08/-3.41	-4.8/-5.1	-0.82/-2.62	-3.31/-7.82	-7.25/-4.11	-6.13/-2.7	-2.45/-2.84	-4.41/-11.7	-16.17/-5.76	-17.89/-11.85	-2.79/-3.15	-2.31/-1.24	-0.75/-5.51	0.05/-4.79	-2.2/-3.03	-1.77/-6.68	-12.6/-15.15	-9.52/-11.2	-1.77/-2.15
Θ(105°)	-4.82/-3.81	-4.13/-4.15	-4.39/-9.53	-5.39/-8.05	-4.55/-3.92	-9.58/-3.43	-2.14/-4.53	-2.05/-3.35	-2.81/-10.94	-5.74/-6.46	-11.37/-5.12	-4.66/-4.05	-9.44/-9.81	-16.03/-10.69	-17.39/-12.85	-2.31/-10.33	-5.75/-4.07	-7.66/-8.23	-1.66/-9.78	-4.56/-4.1	-4.48/-13.8	-18.33/-11.87	-11.62/-13.15	-2.13/-2.66
Θ(112.5°)	-7.72/-11.7	-9.15/-6.87	-7.6/-15.79	-7.54/-8.68	-4.62/-4.89	-11.43/-8.35	-4.49/-5.63	-2.54/-7.92	-5.82/-7.71	-6.28/-6.81	-9.71/-10.11	-7.79/-8.7	-18.55/-14.37	-17.37/-10.11	-18.42/-18.84	-7.72/-11.93	-6.7/-12.9	-3.82/-12.58	-3.22/-5.68	-4.88/-5.97	-9.73/-13.82	-18.43/-9.97	-8.31/-10.21	-8.51/-10.39
Θ(120°)	-13.32/-12.46	-15.68/-9.65	-13.43/-11.17	-11.36/-5.33	-9.01/-7.73	-9.58/-5.31	-6.76/-7.59	-6.99/-7.5	-4.01/-8.78	-9.65/-13.18	-13.46/-18.58	-19.8/-18.8	-17.64/-16.36	-16.81/-18.53	-15.13/-11.61	-13.26/-9.21	-5.2/-12.86	-11.95/-7.22	-5.62/-8.15	-12.76/-15.15	-4.86/-9.15	-8.11/-10.63		
Θ(127.5°)	-18.41/-18.95	-13.7/-8.78	-14.16/-14.11	-14.34/-8.76	-9.14/-10.34	-8.28/-11.52	-7.41/-5.67	-6.75/-8.6	-4.99/-6.01	-6.83/-8.88	-8.82/-18.7	-13.73/-13.18	-18.86/-12.39	-17.89/-18.86	-12.04/-18.93	-9.33/-5.42	-9.71/-14.65	-5.73/-17.93	-6.15/-18.14	-7.23/-12.44	-6.51/-14.94	-13.55/-8.51	-6.49/-4.86	-8.63/-19.08
Θ(135°)	-17.08/-16.85	-19.02/-7.24	-12.96/-12.85	-13.3/-10.44	-13.77/-10.27	-8.68/-12.78	-10.88/-9.96	-11.28/-6.68	-4.72/-9.95	-10.28/-12.12	-11.15/-11.11	-15.98/-17.91	-18.08/-12.63	-14.04/-14.08	-17.38/-9.89	-7.5/-14.1	-10.57/-9.03	-5.55/-14.29	-11.33/-18.67	-17.36/-8.41	-15.93/-13.45	-9.5/-19.7	-10.49/-5.33	-16.51/-18.05
Θ(142.5°)	-15.25/-9.64	-10.96/-11.82	-13.54/-17.66	-17.84/-15.37	-14.08/-14.31	-15.68/-11.33	-7.29/-9.24	-9.48/-6.31	-5.44/-8.31	-8.72/-18.5	-11.21/-10.06	-9.81/-14.67	-10.83/-9.66	-14.47/-15.03	-16.97/-17.39	-15.85/-18.37	-17.23/-15.52	-11.59/-18.45	-12.17/-18.51	-18.27/-14.62	-18.44/-11.86	-16.03/-18.11	-16.51/-15.06	-18.04/-18.77
Θ(150°)	-18.38/-14.05	-10.8/-11.4	-17.4/-18.8	-12.86/-14.37	-17.21/-14.73	-12.06/-14.99	-13.1/-13.66	-13.41/-13.41	-8.64/-6.44	-8.09/-15.63	-15.28/-16.04	-9.7/-11.39	-17.63/-11.96	-10.62/-13.17	-18.05/-16.69	-14.62/-15.09	-11.81/-11.46	-15.28/-16.11	-17.89/-18.06	-18.3/-15.31	-16.23/-18.65	-17.63/-16.04	-12.78/-8.61	-9.68/-11.31
Θ(157.5°)	-11.11/-12.82	-17.14/-18.89	-17.73/-18.45	-11.86/-9.29	-9.39/-12.82	-12.14/-11.53	-11.19/-15.1	-17.2/-18.15	-13.69/-13.24	-10.53/-8.45	-9.38/-16.97	-15.04/-10.57	-13.37/-18.73	-18.35/-18.11	-16.22/-17.28	-17.88/-17.57	-16.08/-14.18	-13.04/-14.68	-17.9/-18.58	-18.62/-19.24	-18.12/-19.2	-12.04/-13.98	-14.81/-12.3	-14.3/-13.61
Θ(165°)	-18.81/-19.13	-19.03/-14.77	-12.8/-12.58	-10.99/-12.41	-11.6/-15.98	-18.32/-18.26	-15.23/-11.82	-16.01/-15.9	-17.66/-17.78	-13.3/-11.29	-10.36/-9.98	-12.08/-18.37	-18.11/-14.94	-12.4/-11.6	-11.52/-18.19	-19.25/-18.13	-12.64/-12.95	-9.85/-9.67	-10.88/-10.15	-11/-12.79	-15.98/-18.57	-18.78/-17.93	-17.97/-18.95	-18.11/-17.53
Θ(172.5°)	-15.12/-12.81	-14.28/-11.99	-12.63/-12.96	-14.17/-12.88	-14.83/-12.31	-14.77/-13.34	-17.37/-16.6	-15.49/-13.51	-13.26/-11.95	-12.1/-14.55	-18.59/-18.46	-16.12/-15.42	-14.79/-14.44	-17.36/-17.34	-13.24/-11.69	-11.2/-12.32	-13.43/-15.88	-16.94/-18.24	-18.27/-15.58	-13.19/-11	-18			



Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	5.8	4.39	4.54	5.28
Ant. 2 Max Gain (dBi)	4.31	5.13	4.62	4.43
Ant. 3 Max Gain (dBi)	5.41	5.06	3.5	4.6
Ant. 4 Max Gain (dBi)	4.15	3.89	2.42	3.55
Ant. 1 Polarization/ $\theta(^{\circ})/\Phi(^{\circ})$	Theta/75/7.5	Theta/60/352.5	Theta/75/30	Theta/75/30
Ant. 2 Polarization/ $\theta(^{\circ})/\Phi(^{\circ})$	Theta/82.5/255	Theta/82.5/270	Theta/52.5/285	Theta/82.5/255
Ant. 3 Polarization/ $\theta(^{\circ})/\Phi(^{\circ})$	Phi/60/120	Phi/82.5/255	Phi/75/270	Phi/82.5/270
Ant. 4 Polarization/ $\theta(^{\circ})/\Phi(^{\circ})$	Phi/60/37.5	Phi/67.5/82.5	Phi/75/277.5	Phi/67.5/112.5
Max Gain (dBi)	5.8	5.13	4.62	5.28
DG [1SS] (dBi)	6.11	5.89	4.48	5.39
DG [1SS] (dBi) Revised	6.11	5.89	4.62	5.39
DG [2SS] (dBi)	5.8	5.13	4.62	5.28
DG [4SS] (dBi)	5.8	5.13	4.62	5.28





Radiated Composite Gain Data of 6GHz_6G Ant1~4

Appendix A.2

Θ(22.5°)	-1.57/-1.68	-1.12/-0.83	-0.54/-1.14	-1.04/-1.06	-0.23/0.62	0.48/0.67	0.94/0.93	0.82/0.17	0.37/1.44	1.61/0.82	0.52/0.72	0.53/1.15	0.8/-1.11	-0.23/-1.1	0.69/0.62	1.43/1.48	1.12/0.89	1.03/0.59	-0.43/0.33	0.96/1.09	0.37/1.07	1.83/1.55	0.74/-0.34	-0.41/-0.6
Θ(30°)	-1.66/-2.46	-1.23/-0.92	0.32/-0.19	-0.3/-0.23	0.24/1.58	2.02/1.71	1.36/1.63	1.09/1.14	1.79/2.23	1.51/1.7	1.67/1.66	1.13/1.18	1.2/0.99	1.74/1.58	1.26/2.93	2.95/2.47	2.23/1.84	0.69/0.2	-0.04/-0.42	1.41/1.82	1/0.53	0.62/1.3	0.94/0.19	-0.82/-0.34
Θ(37.5°)	0.87/0.54	0.43/0.94	1.11/-0.33	0.51/0.67	1.03/0.78	2.04/2.33	1.99/2.89	3.15/2.74	2.19/2.7	1.68/1.6	1.52/1.08	0.98/0.96	1.5/1.66	2.42/1.77	1.58/1.03	0.63/1.32	1.04/1.06	0.14/-0.48	0.68/1.87	3/2.21	1.83/0.97	0.34/-0.01	0.85/1.17	0.41/4.9
Θ(45°)	1.27/1.25	0.93/0.2	0.85/-0.21	-0.56/0.54	2.16/1.28	1.09/1.94	2.06/1.6	2.96/2.15	1/1.92	1.73/1.34	0.69/0.8	0.18/0.02	1.16/0.32	2.03/1.78	0.65/-0.12	1.59/2.81	2.95/2.27	2.44/1.26	2.57/3.02	2.92/2.07	2.44/2.02	0.73/0.56	0.84/1.09	1.29/1.84
Θ(52.5°)	0.35/-0.43	-0.04/0.03	1.3/-0.03	-0.88/-0.99	1.33/-0.27	-0.55/0.28	1.62/1.84	1.84/1.58	0.82/2.57	0.41/0.53	0.65/0.31	0.39/-0.43	0.46/0.96	1.13/0.52	-0.6/-0.67	1.09/0.69	-0.03/-0.04	1.43/1.17	0.91/0.14	0.59/1.47	1.73/1.83	-0.0/0.7	0.58/1.47	2.14/1.18
Θ(60°)	0.62/0.43	0.14/0.19	0.72/-0.32	-0.61/0.86	0.37/-2.05	-0.39/0.9	2.75/3.15	2.46/2.82	2.51/3.8	2.39/2.28	2.56/1.8	0.68/0.46	0.39/0.76	1.25/2.15	2.17/1.52	0.03/-0.92	-2.59/-1.19	-1/0.14	1.19/-0.81	0.32/1.23	1.49/2.17	1.94/0.59	1.36/1.18	2.28/0.96
Θ(67.5°)	1.49/1.73	1.78/1.95	0.40/4.8	1.35/1.84	1.72/-0.11	1.46/1.37	3/3.17	3.81/2.84	3.38/3.37	2.83/3.8	3.33/2.79	2.14/1.13	1.63/0.97	1.75/2.25	3.18/2.04	1.89/0.26	0.26/0.9	2.47/1.8	2.73/2.25	3.54/1.54	2.22/3.23	3.65/1.46	1.87/0.62	1.89/1.04
Θ(75°)	1.57/2.48	2.19/2.96	1.49/1.31	2.93/2.36	2.71/1.38	1.32/0.82	2.34/3.12	3.36/2.72	3.37/2.72	3.32/4.11	3/2.4	2.06/1.46	1.98/0.74	1.52/2.32	3.22/1.84	2.76/1.24	2.57/2.07	3.93/1.7	3.73/3.51	3.67/2.53	3.21/2.96	3.59/1.31	1.82/1.74	2.6/1.2
Θ(82.5°)	1.88/1.5	1.85/2.6	1.52/0.99	2.31/1.6	2.46/1.15	-0.23/0.3	1.28/1.2	2.12/2.48	2.06/1.83	1.69/2.73	2.14/1.77	1.89/0.84	0.99/0.48	0.85/2.12	2.48/0.72	2.03/1.93	3/08/2.38	3.64/3.27	4.48/3.23	3.06/3.71	3.73/1.71	1.51/0.09	1.46/2.39	3.24/1.54
Θ(90°)	1.2/-0.18	1.02/1.15	0.01/-1.07	0.52/1.09	1.07/-0.35	-2.08/-0.93	-0.65/-1.7	-0.11/1.37	-0.09/-0.01	0.27/0.64	0.3/1.33	1.1/0.35	0/0.69	-0.74/0.66	0.93/0.23	0.75/0.62	1.73/1.34	1.75/0.41	1.75/-0.48	0.02/2.63	2.32/-0.17	-0.51/-0.98	0.85/1.92	2.06/0.36
Θ(97.5°)	0.81/-1.12	-0.18/-1.03	-1.58/-1.84	-1.25/-0.54	-0.32/-2.16	-4.04/-3.83	-3.76/-2.81	-1.68/-0.67	-0.29/-1.89	-1.1/-0.95	-1.25/0.07	0.28/-0.99	-1.33/0.14	-1.61/0.33	-0.69/-1.37	-2.38/-1.73	-2.12/-3.33	-2.81/-3.31	-0.46/-3.31	-1.95/-0.04	-0.56/-1.83	-2.07/-0.75	-0.23/0.52	1.38/-0.78
Θ(105°)	-0.92/-2.35	-1.41/-1.79	-1.91/-2.24	-1.6/-0.76	-1.27/-3.24	-3.16/4.75	-5.22/3.58	-1.85/-3.24	-0.24/-3.12	-1.85/0.54	-2.5/-1.43	-1.42/-1.57	-2.12/-1.01	-3.04/-1.14	-1.54/4.58	-3.1/-2.25	-3.17/4.47	-3.78/-3.52	-0.93/-3.82	-3.57/-2	-3.13/-2.33	-3.33/-1.3	-1.34/-0.52	0.05/-1.53
Θ(112.5°)	-1.21/-3.06	-3.87/-2.91	-2.57/-3.53	-3.59/-1.45	-3.84/-5.37	-5.88/-4.96	-6.44/-4.25	-4.11/-2.73	-3.19/-2.34	-2.25/-2.63	-3.77/-3.15	-2.93/-1.96	-2.99/-2.66	-4.06/-3.54	-4.54/-6.71	-7.16/-2.19	-3.61/-3.7	-5.14/-6.47	-2.72/-5	-3.63/-5.8	-5.17/-2.99	-4.59/-3.41	-2.29/-3	-1.77/-2.25
Θ(120°)	-2.22/-5.81	-4.56/-3.45	-5.25/-4.73	-4.58/-3.78	-5.13/-5.49	-6.93/-7.37	-6.88/-4.97	-6.54/-7.3	-1.66/-2.38	-3.21/-4.27	-3.71/-2.88	-3.21/-5.17	-5/-6.94	-5.12/-5.02	-4.34/-7.36	-6.73/-3.43	-4.48/-5.13	-5.16/-7.08	-5.62/-6.88	-7.17/-3.37	-4.3/-5.97	-6.03/-2.88	-3.58/-4.54	-4.28/-3.25
Θ(127.5°)	-2.97/-5.91	-3.37/-4.93	-6.02/-4.99	-3.31/-4.17	-6.32/-7.51	-6.81/-7.63	-8.55/-4.68	-3.89/-3.6	-5.6/-3.5	-5.58/-2.33	-4.86/-4.59	-5.59/-6.52	-3.92/-4.54	-7.4/-6.11	-5.19/-6.37	-5.89/-2.84	-0.81/-3.59	-5.76/-3.47	-1.44/-3.65	-5.79/-3.6	-5.09/-9.44	-7.45/-5.13	-5.42/-4.33	-3.64/-2.9
Θ(135°)	-5.38/-6.79	-5.02/-5.82	-6.21/-5.85	-4.52/-4.02	-5.6/-6.3	-9.31/-9.42	-8.3/-8.72	-5.12/-6.87	-4.81/-6.08	-6.78/-4.32	-3.01/-4.31	-4.53/-6.44	-6.28/-5.81	-6.11/-3.67	-4.47/-6.82	-7.19/-6.73	-6.33/-5.63	-7.42/-5.69	-3.94/-5.01	-8/-5.69	-4.9/-7.85	-8.08/-8.79	-6.15/-3.89	-3.98/-4.8
Θ(142.5°)	-6.01/-7.64	-6.84/-9.26	-8.34/-4.73	-5.37/-5.81	-6.26/-5.35	-7.41/-6.59	-6.51/-6.2	-4.52/-5.02	-4.19/-5.03	-6.02/-5.51	-5.09/-7.57	-6.52/-5	-4.54/-6.4	-5.75/-6.28	-8.9/-8.77	-8.77/-6.71	-6.47/-6.45	-4.55/-4.55	-5.88/-6.47	-5.67/-6.63	-4.88/-6.94	-6.31/-7.82	-5.95/-9.4	
Θ(150°)	-7.12/-6.57	-7.56/-11.68	-8.34/-6.53	-7.37/-7.19	-6.71/-9.25	-7.05/-6.66	-6.64/-5.15	-6.72/-8.85	-6.49/-7.14	-9.35/-7.34	-5.71/-4.52	-4.37/-4.49	-5.16/-6.93	-7.72/-7.82	-9.27/-8.75	-7.79/-8.41	-8.66/-8.17	-9.04/-9.77	-8.83/-8.8	-11.1/-8.65	-9.42/-8.64	-6.31/-8.55	-9.55/-9.78	
Θ(157.5°)	-10.5/-10.09	-9.71/-9.88	-9.2/-9.28	-9.95/-8.65	-7.57/-7.14	-7.4/-8.67	-9.73/-7.09	-6.88/-6.19	-8.51/-6.55	-7.63/-10.96	-9.24/-8.24	-6.75/-8.72	-9.16/-7.75	-6.34/-6.63	-8.22/-8.45	-9.45/-10.37	-9.23/-8.14	-9.81/-8.43	-5.82/-5.24	-6.64/-9.85	-11.26/-11.67	-12.15/-9.68	-7.41/-8.32	-9.44/-10.03
Θ(165°)	-8.69/-9.73	-11.06/-11.35	-11.15/-10.08	-9.43/-7.8	-6.82/-7.3	-7.64/-7.79	-7.2/-8.44	-7.48/-8.85	-6.93/-5.25	-4/-4.03	-6.56/-6.68	-9.78/-9.8	-11.38/-10.96	-9.08/-6.69	-8.84/-7.34	-7.49/-7.34	-8.42/-8.89	-10.1/-8.67	-7.23/-6.9	-9.07/-11.2	-10.95/-10.21	-10.61/-11.47	-11.99/-11.03	-9.91/-9.13
Θ(172.5°)	-12.58/-11.8	-10.69/-10.39	-10.55/-9.46	-9.78/-8.71	-8.75/-8.94	-7.95/-6.76	-6.21/-5.74	-6/-4.83	-4.55/-4.65	-5.71/-6.94	-8.54/-9.22	-9.44/-9.37	-9.46/-9.97	-9.77/-9.68	-9.7/-8.71	-7.35/-6.97	-8.15/-7.98	-8.63/-8.87	-9.88/-10.85	-10.91/-11.03	-11.11/-10.63	-10.33/-9.91	-11.1/-12.02	-12.33/-12.08
Θ(180°)	-11.17/-9.99	-9.01/-8.77	-7.28/-7.19	-6.57/-6.78	-5.13/-4.83	-5.03/-5.12	-4.81/-4.84	-5/-5.39	-5.88/-6.67	-8.18/-8.85	-8.42/-9.5	-10.97/-12.09	-11.23/-11.28	-12.08/-9.44	-9.38/-8.35	-7.14/-7.15	-7.44/-8.09	-8.74/-8.58	-8.57/-8.31	-8.67/-8.87	-7.99/-8	-10.48/-11.96	-12.35/-12.03	
Freq(Pol.)	6.995GPol.	ThetaL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-2.72/-3.3	-3.79/-4.52	-4.28/-4.41	-4.7/-4.7	-4.65/-5.05	-4.6/-4.71	-4.7/-3.63	-3.06/-2.04	-2.32/-2.29	-2.27/-2.58	-2.4/-2.5	-2.68/-2.43	-2.58/-2.74	-2.86/-3.23	-3.51/-3.81	-3.71/-3.87	-4.59/-4.3	-4.83/-3.9	-3.73/-2.97	-2.55/-1.62	-1.55/-1.44	-1.51/-1.45	-1.91/-1.96	-2.28/-2.24
Θ(7.5°)	-5.26/-5.75	-5.66/-5.21	-4.69/-4.38	-3.63/-3.16	-3.09/-3.23	-3.93/-4.87	-5.45/-3.47	-4.06/-3.66	-4.36/-4.08	-4.2/-2.57	-1.74/-1.54	-1.89/-2.13	-1.94/-1.79	-1.32/-1.37	-1.31/-2.92	-3.32/-3.42	-3.98/-4.4	-4.73/-5.9	-6.07/-5.4	-5.02/-4.31	-4.35/-4.31	-3.82/-3.79	-3.76/-4.3	
Θ(15°)	-3.13/-2.47	-2.25/-2.38	-2.3/-2.5	-3.32/-3.75	-3.89/-4.76	-4.38/-4.86	-4.13/-3.67	-3.01/-3.37	-3.11/-2.15	-1.41/-0.53	-0.13/-0.58	-1.32/-1.48	-0.95/0.36	1/0.86	0.62/0.16	0/-0	0.5/0.34	-0.57/-2.08	-3.17/-4.64	-5.13/-5.32	-6.87/-6.3	-6.73/-6.98	-8.73/-5.53	-3.86/-3.18
Θ(22.5°)	-1.32/-1.12	-1.07/-1.67	-2.73/-3.87	-4.56/-2.63	-0.87/-0.03	-0.62/-1.71	-1.8/-1.88	-2.19/-2.55	-1.79/-0.33	-0.65/-1.65	-0.35/-1.28	-0.4/-0.57	-0.23/-0.16	-0.13/-0.27	-1.88/-2.63	-1.85/-1.24	-1.02/-1.41	-1.92/-3.16	-3.34/-3.56	-3.8/-5.7	-7.29/-7.62	-6.58/-4.84	-5.53/-6.33	-3.86/-1.85
Θ(30°)	-2.62/-3.97	-2.18/-0.82	-1.26/-3.08	-3.17/-1.93	-0.2/-0.03	-1.26/-1.86	-1.69/-1.66	-0.87/-0.48	-0.67/-0.2	1/0.22	0.58/1.91	0.7/-0.26	-0.18/0.45	-1.58/-1.01	-1.43/-1.75	-0.77/-0.01	-0.27/-1.08	-0.56/-2.02	-3.16/-3.51	-4.28/-3.67	-2.73/-1.13	-0.63/-1.05	-1.09/-0.81	
Θ(37.5°)	-2.28/-0.09	0.96/0.24	-0.77/0.3	0.42/0.66	0.13/-0.42	-1.16/-0.72	1.16/0.63	-0.08/1.32	0.73/-0.87	0.19/0.68	-0.34/-1.28	-0.02/-1.31	0.13/0.42	0.18/-0.44	-1.02/-1.1	0.33/1.5	1.18/0.81	1.48/1.04	1.79/-1.49	0.83/-0.51	-1.08/-3.96	-2.59/-2.8	-2.21/-3.44	-1.42/-1.38
Θ(45°)	-0.52/0.02	0.83/1.07	0.27/1.91	2.68/2.65	0.99/0.09	0.57/-0.33	0.91/0.7	1.02/0.75	0.32/1.1	0.15/0.19	-1.4/-0.06	-0.69/-0.57	1.06/0.94	1.14/0.67	0.06/-0.16	1.01/2.15	1.76/1.87	1.04/0.32	-0.22/0.72	0.03/0.61	-0.29/-0.43	-3.24/-5.12	-2.21/-1.1	-0.1/-0.74
Θ(52.5°)	2.57/0.92	2.55/2.34	1.94/2.74	3/1.77	-1.47/-1.48	-1.01/-1.18	0.64/0.69	0.44/1.77	1.57/1.46	-1.43/-1.11	-0.62/-0.58	-1.69/-0.26	2.12/0.35	-0.43/0.48	-0.21/-0.66	-0.72/-1.49	2.92/2.61	1.33/1.46	2.26/1.71	3.27/0.77	0.25/0.4	-2.31/-3.9	-0.95/0.55	2.34/2.9
Θ(60°)	2.57/0.96	1.23/1.24	0.75/2.18	1.31/1.18	-0.6/-0.42	1.51/0.46	1.82/1.67	1.39/0.19	1.53/1.99	0/1.23	1.02/-0.59	0.18/1.41	2.73/0.78	-0.82/-1.41	-1.69/-0.77	0.26/1.13	2.56/3.07	2.23/2.44	3.11/9	1.27/1.23	1.75/1.85	-1.94/-6.08	-2.03/0.43	2.49/4.01
Θ(67.5°)	2.88/3.15	0.52/0.06	1.44/2.22	1.37/1.24	1.14/0.78	1.2/-0.65	0.69/0.87	2.78/-1.44	0.41/1.59	1.09/0.78	1.13/-0.19	2.05/1.81	2.58/1.08	-0.95/-4.88	-0.28/0.06	1.28/0.03	2.42/2.63	-0.01/-0.49	-0.35/-1.6	1.75/1.23	2.24/2.18	0.65/-4.11	-1.59/-0.47	1.85/3.7
Θ(75°)	3.27/3.26	1.17/-1.02	2.08/2.09	1.97/1.28	1.24/0.48	-1.92/-0.95	0.87/-0.58	1.93/-0.45	-0.07/0.12	1.1/0.13	1.13/0.04	2.4/2.58	1.83/1.48	-0.82/-4.99	-4.14/-0.24	0.17/-1.46	2.36/3.01	2.99/-0.05	2.9/2.1	3.27/2.3	3.21/1.56	-0.1/-1.29	-0.78/-0.54	1.57/2.86
Θ(82.5°)	2.99/1.99	0.95/-1.38	0.84/0.31	1.36/0.27	1.16/-1.05	-3.82/-0.61	-0.52/-0.74	0.52/-1.06	-0.26/-0.61	-0.21/-0.12	0.18/0.33	2.06/2.19	1.04/0.61	-2.97/-2.84	-5.82/-0.69	-1.27/-0.								

Gain Result

[illegible]



Radiated Composite Gain Data of 6GHz_6G Ant1~4

Appendix A.2

Θ(22.5°)	-13.98/-17.77	-15.4/-14.44	-13.83/-19.03	-10.86/-8.7	-8.77/-8.42	-9.36/-8.84	-7.95/-8.24	-8.54/-9.69	-8.15/-5.99	-6.39/-8.32	-7.41/-5.83	-6.41/-8.18	-11.54/-14.91	-14.2/-13.29	-18.64/-19.11	-13.41/-11.01	-10.15/-8.07	-7.63/-9.74	-17.3/-16.03	-11.08/-11.33	-11.84/-9.44	-7.3/-8.17	-9.88/-8.18	-8.68/-11.23
Θ(30°)	-12.02/-13.96	-13.95/-12.04	-9.38/-14.2	-13.52/-12.02	-13.24/-9.49	-7.64/-7.4	-6.18/-6.37	-10.92/-10.23	-5.41/-3.5	-5.41/-6.27	-4.78/-6.01	-8.71/-10.3	-11.85/-14.58	-18.42/-17.79	-15.12/-10.72	-10.08/-9.1	-9.58/-9.86	-11.87/-7.97	-8.3/-11.89	-9.58/-9.4	-13.93/-14.01	-7.73/-5.54	-5/-6.38	-10.31/-9.51
Θ(35°)	-9.41/-12.52	-18.77/-12.33	-8.65/-17.9	-12.58/-11.8	-9.56/-12.87	-6.61/-7.4	-6.01/-4.98	-6.37/-10.2	-6.61/-3.98	-6.49/-4.74	-5.55/-5.96	-8.45/-9	-9.81/-12.58	-18.26/-15.79	-18.25/-19	-12.93/-9.6	-9.03/-6.18	-6.42/-9.35	-7.54/-9.23	-7.97/-9.04	-16.13/-17.52	-6.13/-8.38	-5.93/-5.32	-10.16/-17.76
Θ(45°)	-12.1/-10.26	-10.03/-15.07	-13.54/-18.65	-19.02/-14.47	-7.67/-9.99	-7.88/-6.35	-6.12/-5.69	-4.91/-4.2	-8.45/-3.92	-6.76/-6.06	-6.86/-6.49	-7.31/-8.74	-8.14/-14.57	-18.38/-17.44	-17.85/-17.59	-10.48/-7.56	-7.14/-6.64	-6.14/-8.46	-4.72/-8.38	-9.09/-11.24	-9.62/-10.43	-17.45/-18.18	-10.86/-7.73	-7.89/-9.35
Θ(52.5°)	-10.08/-17.77	-12.18/-15.8	-9.13/-16.55	-18.41/-13.42	-9.79/-17.91	-13.75/-12.46	-9/-11.54	-5.77/-4.7	-9.55/-3.81	-8.31/-6.95	-7.81/-8.22	-8.83/-9.34	-12.27/-11.45	-18.61/-16.78	-15.33/-18.5	-12.29/-11.66	-9.01/-5.94	-8/-9.21	-6.38/-13.94	-11.21/-14.72	-7.24/-13.95	-18.87/-15.23	-8.9/-4.79	-2.66/-6.3
Θ(60°)	-7/-14.04	-14.5/-13.02	-9.87/-18.17	-17.87/-18.42	-10.77/-18.42	-10.77/-3.38	-4.39/-4.84	-9.08/-9.11	-11.35/-5.58	-8.14/-7.06	-7.79/-9.1	-11.1/-10.66	-14.73/-13.96	-18.07/-18.58	-16.24/-19.09	-14.34/-17.79	-15.8/-9.83	-11.88/-8.09	-4.37/-9.66	-7.75/-4.4	-8/-12.78	-7.78/-5.77	-3.81/-5.78	
Θ(67.5°)	-11.78/-12.4	-12.4/-9.26	-17.83/-16.8	-13.8/-11.89	-12.14/-12.36	-4.23/-9.48	-4.98/-7.56	-12.64/-6.62	-12.28/-9.09	-10.73/-8.95	-9.51/-9.93	-10.51/-11.92	-18.27/-14.73	-18.23/-18.04	-17.83/-17.68	-17.03/-15.64	-18.32/-15.64	-11.24/-10.92	-6.03/-4.45	-3.39/-6.28	-7.09/-9.65	-3.93/-10.62	-16.21/-15.31	-15.42/-11.95
Θ(75°)	-18.03/-10.85	-13.61/-7.1	-17.09/-17.4	-12.09/-16.13	-14.15/-6.56	-7.48/-9.38	-4.28/-8	-17.73/-13.13	-13.13/-12.48	-11.42/-10.89	-12.72/-14.18	-12.06/-13.79	-18.55/-13.03	-19.35/-15.46	-19.01/-14.11	-14.5/-12.75	-18.81/-15.72	-13.05/-13.08	-7.14/-3.92	-4.76/-8.64	-4.88/-7.01	-4.71/-9.91	-14.63/-7.89	-12.61/-17.48
Θ(82.5°)	-11.91/-12.19	-11.75/-7.77	-11.93/-19.23	-11.11/-14.89	-8.54/-6.8	-9.36/-10.59	-6.59/-10.77	-17.38/-18.09	-18.96/-18.4	-13.71/-14.2	-12.47/-13.81	-10.25/-15.82	-18.52/-13.04	-14.89/-18.89	-18.72/-18.16	-16.48/-14.73	-18.47/-18.87	-13.66/-12.55	-8.01/-7.02	-6.65/-7.33	-4.66/-10.24	-7.31/-10.26	-10.98/-4.46	-7.41/-13.33
Θ(90°)	-8.39/-14.9	-9.66/-11.67	-14.88/-18.34	-11.36/-9.71	-9.92/-8.4	-12.82/-9.04	-7.83/-18.42	-19.19/-18.64	-19.1/-18.99	-19.07/-19.18	-15.34/-18.14	-15.73/-17.9	-17.89/-13.84	-18.19/-18.01	-17.95/-16.51	-18.17/-17.11	-18.07/-18.65	-16.03/-18.43	-16.7/-17.7	-13.82/-11.73	-7.25/-18.7	-13.61/-12.83	-13.61/-4.66	-7.24/-10.78
Θ(97.5°)	-5.67/-13.56	-11.21/-18.21	-15.71/-14.56	-16.78/-10.37	-9.96/-12.81	-15.15/-14.24	-13.09/-18.85	-17.76/-18.11	-16.81/-18.76	-19.28/-17.6	-18.09/-18.79	-15.39/-17.59	-18.99/-13.66	-19.01/-15.76	-15.47/-14.28	-18.16/-17.03	-17.45/-14.91	-15.36/-13.68	-19.12/-11.38	-10.47/-13.33	-17.44/-13.33	-18.92/-8.67	-8.13/-13.05	
Θ(105°)	-7.62/-13.81	-10.02/-16.1	-18.76/-13.39	-12.74/-11.43	-11.04/-18.17	-18.23/-18.29	-17.87/-18.77	-16.57/-15.23	-12.75/-16.19	-19.02/-17.47	-11.71/-15.38	-16.82/-19.25	-18.05/-17.67	-16.89/-14.06	-19.09/-17.92	-18.44/-14.45	-14.98/-19.23	-18.43/-13.05	-14.38/-16.67	-18.38/-12.14	-9.49/-19.1	-17.57/-14.03	-18.16/-8.87	-11.15/-15.65
Θ(112.5°)	-8.09/-11.31	-18.74/-15.21	-18.06/-15.65	-12.78/-10.93	-17.02/-17.14	-18.71/-18.02	-18.34/-18.75	-19.21/-14.81	-11.8/-17.92	-18.23/-18.26	-17.68/-15.42	-14.8/-18.09	-18.83/-18.06	-16.81/-18.58	-18.35/-17.31	-14.01/-13.24	-14.02/-16.91	-12.8/-17.73	-17.41/-13.93	-17.61/-18.37	-15/-15.33	-18.97/-17.06	-14.84/-17.99	-12.01/-15.11
Θ(120°)	-12.9/-14.79	-14.29/-15.93	-18.36/-15.35	-16.64/-12.81	-17.68/-16.49	-14.91/-18.44	-14.94/-14.31	-19.01/-16.32	-12.09/-13.37	-13.16/-15.53	-15.56/-18.82	-19.16/-15.65	-18.3/-18.86	-17.75/-16.94	-9.91/-10.29	-14.48/-12.34	-9.56/-9.08	-13.13/-13.35	-18.68/-7.55	-8.37/-16.63	-9.71/-14.55	-16.18/-13.33	-12.37/-12.32	
Θ(127.5°)	-12.21/-15.04	-11.11/-19.17	-19.58/-18.65	-16.62/-18.04	-18.41/-18.95	-18.83/-17.21	-18.38/-11.28	-12.59/-12.52	-15.21/-11.57	-15.01/-14.16	-10.74/-11.28	-16.28/-18.78	-18.66/-10.76	-18.4/-19.7	-17.99/-14.18	-14.98/-14.06	-16.72/-12.02	-12.59/-9.17	-7.39/-9.17	-12.29/-10.22	-12.55/-9.4	-18.12/-16.57	-10.19/-14.04	
Θ(135°)	-16.37/-18.45	-17.58/-19.09	-17.35/-17.65	-12.48/-12.78	-18.02/-14.94	-18.3/-15.5	-18.37/-19.14	-11.49/-18.06	-14.49/-17.3	-12.59/-13.39	-13.1/-17.23	-18.42/-13.37	-13.89/-14.29	-17.88/-15.02	-15.39/-17.19	-14.66/-17.96	-17.88/-11.72	-12.53/-14.84	-9.37/-9.36	-9.04/-12.43	-11.75/-14.72	-11.59/-14.16	-10.63/-8.97	-10.31/-17.1
Θ(142.5°)	-18.56/-14.63	-11.51/-7.88	-18.63/-15.01	-17.54/-18.05	-18.08/-11.73	-14.75/-11.15	-15.69/-12.98	-8.41/-10.16	-7.74/-8.65	-11.11/-11.55	-16.87/-15.27	-17.04/-17.96	-18.81/-16.65	-14.64/-17.55	-18.28/-12.81	-16.76/-14.4	-9.29/-9.73	-11.21/-13.78	-18.14/-10.37	-8.44/-14.84	-7.46/-11.98	-15.08/-14.76	-13.57/-13.92	
Θ(150°)	-15.46/-15.27	-12.31/-19.1	-13.42/-9.49	-11.75/-13.41	-11.68/-18.06	-19.13/-14.98	-12.96/-13.91	-18.49/-16.35	-11.81/-18.02	-16.12/-11.52	-16.43/-18.6	-17.71/-17.95	-18.15/-15.45	-14.46/-11.82	-10.95/-13.6	-15.84/-14.16	-13.29/-15.03	-10.95/-9.84	-17.15/-17.77	-15.41/-14.18	-13.92/-18.96	-16.72/-17.82	-17.92/-16.37	
Θ(157.5°)	-17.19/-18.13	-18.03/-18.11	-18.58/-17.97	-19.03/-12.78	-11.19/-14.38	-17.66/-17.05	-12.04/-10.55	-11.26/-15.57	-16.49/-12.53	-12.36/-18.44	-17.68/-15.68	-16.53/-17.46	-18.14/-18.92	-11.07/-9.18	-12.23/-13.26	-15.66/-18.26	-14.78/-10.96	-12.2/-11.16	-8.05/-6.77	-6.92/-11.59	-18.12/-17.96	-17.76/-16.61	-15.2/-18.05	-17.61/-17.29
Θ(165°)	-18.87/-17.83	-17.49/-16.38	-14.38/-13.37	-14.11/-13.97	-13.67/-14.48	-12.85/-10.29	-8.94/-27	-9.61/-11.12	-9.79/-8.5	-7.98/-8.02	-10.44/-12.4	-14.33/-15.86	-16.95/-15.09	-16.6/-17.67	-15.94/-13.24	-12.41/-12.59	-12.09/-12.24	-12.92/-11.05	-9.9/-10.49	-13.83/-17.52	-17.05/-12.81	-12.46/-15.31	-17.81/-16.91	-18.87/-16.67
Θ(172.5°)	-17.74/-16.74	-12.97/-13.03	-13.29/-11.25	-11.07/-12.27	-11.88/-12.56	-10.71/-10.28	-10.08/-13.33	-9.92/-10.02	-9.69/-10.54	-10.82/-10.41	-11.52/-14.21	-15.09/-17.66	-18.44/-19.05	-16.07/-14.01	-14.26/-12.51	-10.25/-9.36	-10.34/-11.03	-12.18/-13	-15.31/-18.49	-17.71/-17.12	-19.03/-18.06	-15.61/-13.91	-16.49/-19.36	-18.56/-18.74
Θ(180°)	-18.64/-18.75	-18.62/-14.69	-12.96/-11.47	-10.45/-8.92	-8.17/-8.16	-8.06/-7.42	-7.71/-7.74	-7.78/-7.33	-7.93/-8.97	-12.06/-13.74	-13.79/-15.93	-18.96/-18.79	-18.46/-18.37	-18.9/-10.66	-10.46/-10.14	-9.26/-9.73	-11.64/-13.74	-15.38/-16.19	-18.04/-17.46	-18.24/-16.64	-12.93/-11.82	-10.66/-11.39	-13.9/-16.88	-17.96/-18.17
Freq(GPol)	6.695GPol	ThetaAnt.1	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-11.1/-11.25	-11.98/-13.04	-12.74/-14.01	-15.25/-16.37	-18.37/-19.18	-16.34/-17.44	-15.84/-13.41	-11.87/-10.52	-10.26/-10.85	-10.61/-10.29	-9.52/-9.02	-8.33/-7.38	-7.18/-6.26	-5.72/-6.17	-6.39/-5.51	-5.69/-6.74	-8.32/-9.12	-9.38/-10.44	-12.15/-14.09	-14.28/-14.54	-15.66/-14.79	-13.21/-13.18	-12.86/-11.29	-10.24/-10.15
Θ(7.5°)	-12.04/-14.51	-17.57/-15.58	-15.91/-18.21	-14.45/-11.88	-10.6/-9.21	-9.07/-10.31	-12.48/-12.21	-10.83/-9.61	-10.72/-10.71	-8.9/-6.25	-4.38/-3.48	-2.44/-1.46	-1.15/-1.07	-1.51/-2.79	-1.51/-2.79	-4.61/-5.11	-8.56/-11.48	-12.52/-12.38	-12.76/-13.75	-15.32/-16.48	-18.2/-18.81	-17.08/-17.49	-18.92/-18.21	-16.49/-13.14
Θ(15°)	-7.97/-6.48	-5.56/-5.02	-4.5/-5.24	-6.72/-8.21	-8.66/-8.83	-6.16/-6.14	-6.07/-6.24	-7.33/-9.74	-3.03/-1.21	-1.12/-1.65	0.29/0.3	0.06/-0.56	0.42/0.04	-0.02/-0.89	-1.79/-3.17	-5.38/-7.77	-9.96/-10.11	-10.94/-11.1	-13.71/-12.87	-17.22/-18.45	-17.57/-10.83	-8.78/-9.82		
Θ(22.5°)	-4.94/-4.93	-4.1/-4.89	-7.4/-9.07	-9.48/-7.26	-5.33/-4.82	-5.93/-6.25	-5.02/-4.14	-4.66/-5.78	-5.91/-3.89	-2.54/-2.8	-1.92/0.45	1.11/-0.1	0.57/0.47	0.93/1.15	0.45/-0.21	-2.13/-4.34	-3.56/-3.51	-5.38/-8.65	-12.6/-13.93	-13.14/-15.89	-19.17/-18.31	-14.42/-11.03	-12.45/-12.2	-7.5/-4.81
Θ(30°)	-7.16/-8.16	-8.67/-6.57	-4.69/-3.31	-2.81/-3.24	-3.25/-3.68	-5.52/-5.13	-3.78/-3.75	-3.77/-3.29	-3/-2.89	-2.45/-1.87	0.54/-1.59	0.74/0.7	0.92/0.99	1.0/6	0.46/-0.13	-1.41/-3.6	-3.63/-2.69	-3.73/-5.73	-7.04/-5.66	-9.32/-6.89	-8.01/-10.63	-11.09/-6.54	-4.25/-4.26	-4.14/-5.51
Θ(37.5°)	-2.06/-1.06	0.12/0.75	1.06/1.86	1.5/0.13	-2.25/-2.25	-2.14/-3.33	-1.99/-2.59	-2.61/-1.5	-2.77/-1.61	-0.83/-1.21	-1.98/-2.41	0.74/2.02	1.03/0.96	1.20/5.1	0.64/-0.51	-0.33/0.01	-1.13/-2.07	-3.12/-4.79	-4.78/-3.88	-3.75/-3.49	-3.96/-7.61	-8.98/-6.51	-6.04/-6.74	-1.44/-0.56
Θ(45°)	-1.61/-0.49	1.19/0.37	0.92/2.86	3.04/2.65	0.15/-1.06	-1.39/-1.89	-1.15/-1.6	-1.49/-0.67	-0.96/1.48	-0.61/-1.01	-1.11/-1.72	0.53/1.68	3.21/1.41	1.39/0.05	-0.56/0.23	-0.56/-0.38	-1.81/-3.42	-5.37/-3.06	-3.03/-3.41	-3.3/-3.1	-5.4/-8.57	-1.98/-0.38	-1.92/-0.34	
Θ(52.5°)	2.99/0.13	1.72/2.29	3.47/4.35	2.81/2.25	0.41/-0.54	-2.74/-3.74	-0.66/-1.39	-0.28/-0.11	0.65/2.83	-1.41/-3.6	0.12/-1.89	-1.71/-1.59	2.11/2.19	2.38/0.17	-0.52/-2.8	-1.27/-0.82	-0.76/0.66	-2.32/-2.62	-3.43/-6	-1.85/-4.15	-6.83/-4.13	-2.81/-6.52	0.22/1.97	2.99/3.41
Θ(60°)	2.96/1.06	-2.84/1.23	2.97/3.46	0.66/2.57	0.78/0.12	0.56/-1.98	1.85/0.15	2.3/-0.64	0.11/2.58	0.23/2.42	2/-3.42	-2.03/-0.4	1.95/1.91	2.03/-0.96	-2.32/-2.7	-1.04/-2.29	-0.14/0.53	-0.16/-1.08	1.24/-1.42	-2.7/-2.32	-3.78/-3.3	-2.18/-7.02	-0.38/2.18	1.75/3.7
Θ(67.5°)	3.69/2.79	-1.22/-0.91	3.89/3.8	1.91/2.73	2.13/0.91	0.59/-1.47	1.11/1.8	3.08/-0.33	0.62/-2.41	0.58/2.11</														



Radiated Composite Gain Data of 6GHz_6G Ant1~4

Appendix A.2

Θ(75°)	-10.9/-8.23	-7.93/-7.12	-8.46/-9.36	-12.42/-12.24	-11.29/-12.58	-12.04/-8.97	-10.46/-12.18	-14.93/-13.99	-7.86/-9.01	-4.47/-6.31	-6.14/-4.45	-3.22/-2.31	-3.5/-5.75	-5.32/-5.58	-3.5/-6.12	-6.39/-9.4	-12.13/-12.3	-9.13/-9.23	-12.57/-14.39	-8.38/-17.89	-7.8/-10.92	-12.39/-8.68	-11.74/-14.31	-9.65/-7.49	
Θ(82.5°)	-9.68/-8.08	-6.96/-7.62	-7.02/-6.78	-10.94/-10.45	-11.55/-13.24	-13.7/-10.28	-11.38/-10.07	-13.23/-11.1	-8.05/-8.26	-5.6/-6	-5.17/-4.51	-1.75/-1.79	-2.55/-3.36	-4.41/-4.85	-3.53/-4.16	-5.84/-6.22	-8.77/-13.97	-5.64/-8.2	-7.95/-9.24	-3.77/-12.82	-9.31/-10.86	-13.59/-11.96	-9.04/-12.74	-7.71/-6.3	
Θ(90°)	-12.48/-6.44	-6.64/-7.01	-5.38/-7.05	-9.68/-11.01	-10.83/-12.35	-15.81/-15.52	-12.71/-11.15	-13.62/-9.5	-5.54/-8.52	-2.65/-6.49	-2.21/-7.4	-2.28/-2.04	-3.65/-6.2	-5.65/-6.9	-5.61/-6.91	-7.41/-6.22	-6.24/-14	-6.3/-9.61	-9.07/-16.18	-5.65/-13.09	-10.77/-13.54	-11.82/-9.74	-6.88/-7.94	-6.14/-7.26	
Θ(97.5°)	-12.65/-6.05	-6.42/-7.68	-6.35/-6.85	-10.92/-12.53	-14.84/-10.31	-13.89/-17	-14.13/-13.79	-11.25/-11.55	-10.21/-9.81	-5.11/-9.95	-4.84/-3.13	4.77/-1.32	-2.4/-3.05	-2.87/-6.54	-9.75/-6.6	-7.1/-8.28	-6.41/-17.98	-8.2/-8.41	-14.16/-17.31	-6.76/-12.03	-16.68/-18.7	-16.08/-8.29	-6.48/-6.34	-4.45/-7.17	
Θ(105°)	-8.69/-6.05	-5.49/-6.21	-4.41/-6.76	-10.58/-12.77	-11.71/-10.23	-16.27/-13.7	-18.36/-14.54	-12.18/-9.2	-9.98/-16.89	-5.53/-9.79	-6.39/-4.18	-5.37/-4.53	-2.51/-4.43	-6.22/-4.72	-13.3/-10.69	-7.93/-7.8	-5.76/-11.19	-12.79/-8.77	-13.32/-15.73	-10.97/-16.7	-13.64/-18.8	-11.08/-9.96	-5.83/-6.75	-5.67/-7.88	
Θ(112.5°)	-7.24/-4.89	-6.16/-6.2	-4.65/-9.1	-10.51/-12.78	-12.47/-16.26	-15.86/-16.04	-15.81/-15.22	-10.8/-9.02	-11.23/-18.19	-6.89/-9.92	-8.5/-11	-6.37/-5.98	-5.8/-4.99	-8.99/-7.81	-10.52/-14.27	-9.97/-6.59	-7.82/-11.93	-11.5/-18.5	-9.7/-18.02	-11.84/-10.73	-18.04/-18.11	-9.5/-7.68	-8.45/-7.92	-6.92/-7.09	
Θ(120°)	-7.25/-5.85	-6.24/-5.99	-8.53/-12.39	-11.18/-11.12	-11.43/-13.27	-17.86/-18.73	-17.39/-12.73	-10.4/-15.87	-7.63/-17.54	-6.14/-12.07	-6.46/-7.42	-10.63/-7.6	-14.81/-7.48	-8.16/-10.48	-17.8/-18.53	-18.1/-7.26	-10.01/-11.65	-11.74/-17.59	-12.48/-18.12	-14.26/-15.39	-8.12/-17.34	-12.94/-7.38	-15.62/-6.92	-9.43/-6.57	
Θ(127.5°)	-8.08/-7.36	-9.44/-8.08	-9.41/-11.69	-17.07/-14.3	-15.22/-12.18	-18.87/-16.45	-14.11/-17.96	-18.62/-13.22	-8.09/-19.01	-6.94/-5.71	-13.06/-7.33	-10.44/-9.76	-11.04/-9.52	-17.92/-16.08	-13.96/-10.81	-13.14/-13.71	-13.53/-14.46	-12.54/-16.03	-11.21/-17.04	-19.07/-18.14	-6.38/-16.78	-15.7/-18.64	-15.08/-10.89	-12.03/-5.95	
Θ(135°)	-9.85/-8.04	-6.6/-7.76	-9.9/-13.49	-13.25/-11.17	-11.45/-14.87	-16.19/-18.31	-18.05/-19.04	-17.21/-10.52	-13.27/-11.66	-11.44/-3.99	-10.55/-8.94	-10.54/-8.76	-12.9/-9.31	-7.5/-11.66	-12.49/-10.9	-17.77/-13	-17.41/-17.91	-18.24/-18.21	-9.26/-15.08	-17.36/-11.34	-14.84/-18.25	-18.79/-19.02	-18.37/-14.41	-11.5/-8.15	
Θ(142.5°)	-9.54/-8.51	-7.92/-7.55	-10.23/-13.99	-16.89/-17.73	-17.65/-18.13	-18.16/-17.69	-18.96/-17.16	-13.14/-12	-11.16/-16.89	-7.6/-43	-7.24/-4.09	-9.4/-9.87	-6.87/-8.25	-7.47/-9.16	-11.22/-13.23	-18.51/-17.37	-19.06/-16.4	-16.7/-15.88	-9.13/-11.53	-15.38/-11.58	-12.78/-15.91	-17.69/-14.45	-17.01/-13.52	-10.8/-10.63	
Θ(150°)	-12.23/-11.63	-10.72/-10.88	-13.73/-18.78	-14.95/-13.07	-17.36/-17.63	-17.96/-18.21	-11.92/-9.09	-11.25/-14.5	-10.2/-7.91	-8.4/-9.26	-7.13/-8.73	-13.96/-15.54	-18.19/-18.08	-18.16/-17.8	-17.77/-18.26	-18.19/-18.77	-17.61/-18.57	-18.77/-11	-16.88/-12.7	-18.77/-11	-16.88/-12.7	-9.6/-11.61	-10.95/-11.82	-10.95/-11.82	
Θ(157.5°)	-18.47/-18.14	-15.27/-13.71	-15.54/-16.02	-12.79/-12.18	-13.01/-17.69	-18.63/-18.76	-17.89/-11.93	-12.37/-15.06	-18.63/-15.38	-14.85/-14.79	-10.65/-9.01	-10.47/-10.33	-8.55/-8.53	-14.25/-18.27	-17.46/-17.87	-16.79/-16.65	-16.28/-17.37	-12.5/-11.54	-11.75/-14.22	-18.04/-16.15	-10.32/-10.55	-13.94/-9.68	-9.59/-9.36	-9.08/-13.72	
Θ(165°)	-11.56/-14.78	-18.71/-18.44	-17.75/-17.79	-15.25/-16.69	-15.24/-13.83	-13.07/-12.86	-14.38/-12.05	-10.54/-8.55	-7.96/-10.69	-13.99/-18.86	-13.36/-14.84	-17.55/-13.51	-10.97/-10.99	-16.31/-15.13	-12.24/-10.31	-11.51/-14.48	-15.98/-16.83	-14.87/-12.38	-17.13/-18.13	-18.91/-14.4	-13.15/-17.98	-14.1/-13.18	-15.53/-13.13	-11.14/-11.68	
Θ(172.5°)	-10.9/-9.76	-10.82/-13.37	-12.26/-12.1	-14.28/-14.25	-13.49/-15.8	-17.96/-16.64	-15.31/-12.7	-15.37/-12.43	-16.81/-12.84	-11.86/-13.69	-14.34/-15.91	-12.64/-11.07	-10.83/-11.88	-12.93/-13.27	-17/-17.01	-16.25/-19.26	-18.49/-18.94	-16.75/-16.73	-14.77/-15.44	-15.11/-13.6	-16.38/-18.29	-18.66/-18.85	-15.56/-14.1	-14.37/-12.29	
Θ(180°)	-9.14/-8.08	-8.14/-8.86	-9.54/-9.61	-9.35/-12.41	-13.6/-16.52	-15.7/-15.25	-12.83/-18.32	-13.28/-15.09	-10.67/-9.61	-9.92/-10.2	-12.04/-16.23	-16.58/-17.29	-18.47/-18.28	-15.75/-15.22	-10.81/-10.05	-10.48/-11.07	-11.32/-19.14	-12.09/-14.77	-15.84/-15.78	-15.79/-15.06	-14.98/-13.39	-12.83/-12.41	-10.67/-9.52	-10.18/-9.08	
Freq(Hz)	6.175GPol.	ThetaAnt. 2	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ(0°)	-9.62/-10.87	-11.43/-12.17	-12.49/-14.38	-14.84/-12.51	-13.72/-12.67	-12.04/-10.43	-10.38/-8.08	-8.61/-8.13	-6.74/-7.52	-8.34/-7.98	-8.06/-9	-9.68/-10.83	-11.88/-13.31	-14.87/-12.8	-14.78/-13.74	-13.71/-12.53	-9.53/-11.08	-8.13/-9.8	-7.93/-9.85	-8.64/-8.69	-9.03/-9.07	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ(7.5°)	-13.56/-15.27	-18.16/-18.67	-17.69/-14.36	-16.55/-16.42	-17.76/-18.22	-12.25/-8.62	-6.14/-3.99	-2.72/-2.66	-1.86/-2.32	-3.2/-3.81	-4.55/-5.7	-6.82/-6.94	-7.13/-7.64	-8/-9.03	-10.22/-11.42	-12.15/-13.42	-13.04/-13.51	-16.21/-11.92	-13.87/-11.55	-14.46/-12.11	-17.71/-14.45	-14.03/-11.69	-14.1/-12.23	-12.15/-12.26	
Θ(15°)	-10.79/-11.63	-13.62/-13.84	-11.13/-13.07	-9.17/-8.97	-8.41/-8.19	-8.26/-7.15	-7.86/-5.98	-5.86/-5.19	-5.59/-5.27	-6.53/-6.88	-7.31/-7.55	-7.87/-8.85	-10.64/-11.48	-12.88/-12.12	-10.57/-13.89	-13.69/-8.52	-9.12/-8.59	-7.21/-7.89	-5.5/-6.96	-7.44/-12.92	-13.43/-17.39	-15.55/-18.11	-17.21/-17.71	-13.21/-11.7	
Θ(22.5°)	-9.36/-9.65	-6.65/-6.21	-4.52/-6.45	-2.97/-4.03	-2.22/-1.36	-0.92/-1.77	-1.91/-1.69	-0.74/-2.22	-1.25/-1.15	0.38/-1.15	1.11/-1.31	-0.01/-0.58	-1.24/-1.08	-0.21/-2.55	-6.21/-6.55	-3.45/-0.04	-2.19/-2.98	-0.33/-1.03	-2.21/-2.56	-1.62/-0.83	1.65/-1.71	-0.10/-0.56	-3.67/-6.13	-6.59/-9.37	-4.31/-4.95
Θ(30°)	-4.84/-5.45	-5.86/-5.2	-4.73/-4.81	-4.21/-2.99	-4.19/-4.02	-3.21/-3.13	-3.02/-3.87	-3.79/-2.89	-1.87/-5.7	-5.46/-1.04	-0.18/-2.77	-5.66/-2.86	-2.21/-4.13	-5.1/-3.93	-5.18/-7.74	-6.51/-4.27	-3.34/-2.77	-2.5/-2.13	-2.4/-1.31	-2.38/-4.21	-2.93/-2.85	-6.04/-7.06	-7.55/-11.02	-7.26/-5.11	
Θ(37.5°)	-5.82/-3.87	-4.33/-3.35	-2.49/-3.37	-4.63/-4.17	-7.2/-3.81	-3.22/-3.41	-3.91/-3.32	-3.59/-2.72	0.37/-0.15	-0.53/-0.59	-0.5/-1.84	-2.2/-1.1	-0.1/-2.76	-6.42/-6.46	-3.87/-1.96	-2.58/-4.1	-1.19/-2.09	0.31/-1.36	0.63/-1.59	-0.91/-3.36	-4.53/-10.3	-10.72/-14.1	-10.68/-7.3		
Θ(45°)	-4.55/-4.47	-0.87/-1.23	-2.97/-4.03	-2.22/-1.36	-0.92/-1.77	-1.91/-1.69	-0.74/-2.22	-1.25/-1.15	0.38/-1.15	1.11/-1.31	-0.01/-0.58	-1.24/-1.08	-0.21/-2.55	-6.21/-6.55	-3.45/-0.04	-2.19/-2.98	-0.33/-1.03	-2.21/-2.56	-1.62/-0.83	1.65/-1.71	-0.10/-0.56	-3.67/-6.13	-6.59/-9.37	-4.31/-4.95	
Θ(52.5°)	-0.93/-3.99	0.6/-2.49	-2.88/-3.59	-2.46/-0.41	-0.5/-2.98	-4.21/-0.53	0.8/-0.6	-3.12/-1.36	-0.95/-0.95	-1.65/-1.2	0.61/-0.88	-0.15/-1.04	-1.75/-1.72	-4.26/-10.11	-3.38/-0.18	-1.83/-1.99	0.06/-2.21	2.67/-2.3	2.41/-3.9	4.11/-3.71	0.77/-0.35	-2.9/-7.97	-6.13/-5.85	-2.49/-1.33	
Θ(60°)	1.46/-2.66	0.16/-0.27	0.04/-3.57	-1.84/-0.57	0.38/-1.2	-2.27/-0.3	2.11/-4.2	-1.8/-2.8	-2.87/-2.15	-1.66/-2.05	-0.17/-0.02	0.12/-0.1	-1.43/-0.09	-2.53/-13.2	-0.88/-0.13	1.18/-1.48	3.96/-1.34	2.61/-3.1	0.35/-0.85	2.57/-3.16	1.67/-1.71	-3.15/-7.07	-6.65/-9.34	-3.11/-3.01	
Θ(67.5°)	2.6/-2.08	-0.05/-1.33	-0.82/-2.69	-0.51/-0.47	0.94/-3.32	-2.40/-0.1	0.27/-1.19	0.06/-1.45	-4.75/-3.89	-1.8/-0.59	-0.43/-0.78	0.03/-0.6	-1.89/-8.46	1.65/-0.01	-12.64/-0.7	-2.94/-0.34	-1.89/-8.46	-3.32/-0.85	2.23/-2.7	1.33/-0.6	-5.35/-5.24	-3.43/-4.09	-4.35/-1.22		
Θ(75°)	2.6/-0.44	-0.87/-1.2	-0.45/-2.09	-0.63/-0.51	-0.04/-3.47	-3.13/-0.32	0.08/-1.38	-0.44/-0.46	-3.11/-6.66	-2.63/-1.63	-0.76/-1.83	-0.03/-0.6	0.1/-0.51	-1.63/-5.3	-1.75/-3.73	0.77/-1.97	0.16/-0.97	2.99/-1.32	1.83/-2.01	2.48/-2.93	1.18/-1.11	-9.62/-4.89	-2.75/-4.23	-6.68/-0.31	
Θ(82.5°)	1.18/-0.21	-1.43/-0.72	-1.45/-1.11	-0.94/-1.65	-3.01/-3.89	-2.94/-0.61	1.09/-1.2	-1.82/-0.23	-2.84/-7.74	-4.32/-2.41	-1.27/-1.74	-0.93/-1.58	-0.9/-1.62	-4.19/-2.29	-18.61/-4.23	-2.29/-2.49	0.56/-2.17	4.31/-3.72	2.95/-5.31	2.88/-3.1	-0.73/-0.71	-11.54/-7.44	-4.49/-3.31	-5.62/-0.15	
Θ(90°)	-0.3/-1.96	-2.16/-0.25	-1.82/-1.76	-1.24/-3.26	-5.84/-7.1	-3.11/-0.35	0.02/-0.4	-1.73/-0.92	-3.74/-0.67	-7.91/-2.75	-3.42/-1.22	-1.61/-0.43	-3.15/-3.09	-5.31/-2.62	-17.65/-6.11	-2.831/-5.3	0.331/-4.8	2.55/-3	1.822/-8.1	1.781/-6.5	-2.69/-0.44	-13.29/-9.96	-7.02/-3.47	-5.82/-0.14	
Θ(97.5°)	-1.65/-4.54	-4.6/-3.01	-3.3/-3.12	-2.35/-4.91	-8.15/-4.19	-3.98/-1.47	-1.48/-1.16	-4.57/-1.94	-3.16/-5.6	-10.26/-3.58	-4.43/-0.54	-3.41/-9.46	-8.44/-5.03	-9.67/-4.84	-17.12/-6.5	-2.41/-1.46	-0.81/-3.31	-1.44/-1.91	-1.64/-0.21	-1.24/-1.71	-9.43/-3.49	-15.17/-12.37	-7.79/-4.9	-5.68/-1.38	
Θ(105°)	-3.41/-6.39	-6.14/-6.22	-4.26/-4.84	-4.54/-6.31	-7.12/-4.35	-3.08/-7.36	-3.56/-1.63	-4.57/-4.23	-1.63/-7.27	-9.58/-4.79	-7.67/-1.52	-4.6/-8.29	-10.32/-7.2	-9.28/-11.02	-14.89/-13.69	-5.41/-4.35	-6.23/-9.61	-4.07/-4.33	-5/-2.92	-4.67/-5.89	-5.82/-6.32	-18.96/-9.15	-13.99/-9.3	-9.88/-5.75	
Θ(112.5°)	-8.14/-6.78	-7.02/-6.18	-5.92/-5.73	-10.39/-9.7	-6.85/-3.79	-2.01/-3.26	-2.13/-2.34	-6.6/-3.13	-3.99/-8.29	-5.67/-5.81	-9.71/-14.05	-8.05/-13.66	-16.46/-19.35	-9.52/-17.94	-11.04/-15.7	-11.23/-12.51	-6.59/-9.41	-3.72/-9.43	-5.55/-3.77	-11.764/-8.85	-14.75/-16.1	-12.74/-15.22	-15.37/-18.57	-10.57/-9.82	
Θ(120°)	-19.48/-9.18	-9.85/-4.99	-5.73/-5.99	-9.24/-11.32	-5.76/-4.55	-6.71/-5.4	-3.07/-3.3	-1.74/-2.61	-7.09/-3.79	-6.29/-9.11	-11.94/-8.24	-9.51/-12.27	-16.54/-8.62	-7.59/-7.99	-7.54/-10.17	-12.33/-13.04	-5.38/-11.18	-5.61/-10.3	-3.58/-4.69	-8.15/-12.59	-9.81/-6.4</				



Radiated Composite Gain Data of 6GHz_6G Ant1~4

Appendix A.2

Θ(127.5°)	-5.45/8.99	-5.53/4.88	-9.89/10.73	-8.28/-8.24	-14.27/-18.53	-17.87/-17.23	-14.6/-12.69	-11.3/-9.82	-10.78/-9.39	-17.79/-5.68	-9.81/-7.76	-7.55/-8.76	-4.68/-11.19	-16.05/-18.61	-16.6/-16.76	-13.07/-8.78	-7.69/-18.74	-9.98/-18.36	-14.02/-18.36	-18.18/-15.6	-12.45/-8.72	-14.6/-10.61	-12.9/-9.21	-7.73/-6.58
Θ(135°)	-6.78/-9.7	-5.45/-8.41	-12.6/-11.53	-9.41/-10.33	-16.03/-19	-19.28/-15.19	-17.57/-17.72	-15.67/-14.21	-9.29/-11.6	-15.37/-9.28	-5.7/-8.02	-6.79/-12.61	-8.86/-8.87	-9.23/-8.16	-11.12/-12.2	-12.3/-12.59	-17.9/-18.84	-16.01/-9.21	-12.88/-13.52	-16.76/-12.25	-18.51/-17.27	-18.36/-17.61	-17.96/-9.99	-9.67/-8.96
Θ(142.5°)	-8.46/-11.28	-11.14/-13.16	-14.33/-10.49	-15.17/-11.94	-14.2/-19.39	-13.69/-16.63	-14.59/-11.25	-11.86/-14.38	-11.64/-7.78	-13.49/-9.62	-4.85/-5.58	-7.83/-9.79	-8.01/-6.02	-5.04/-6	-11.81/-11.6	-17.07/-15.84	-15.72/-9.58	-14.36/-12.5	-14.62/-10.57	-12.13/-10.49	-18.11/-12.7	-13.74/-17.59	-14.62/-10.39	-15.93/-9.92
Θ(150°)	-15.22/-14.63	-14.33/-18.47	-13.71/-13.12	-17.96/-14.24	-14.37/-18.85	-12.17/-13.03	-13.31/-12.72	-16.06/-17.15	-13.43/-10.62	-13.05/-13.03	-8.06/-4.6	-4.46/-4.93	-4.07/-6.76	-8.74/-11.66	-17.93/-16.45	-17.99/-18.86	-18.28/-12.86	-17.7/-18.22	-17.82/-18.69	-18.49/-14.23	-13.52/-18.97	-17.31/-14.21	-10.3/-15.48	-18.41/-14.71
Θ(157.5°)	-18.96/-17.99	-18.08/-18.08	-13.55/-13.17	-15.74/-14.78	-16.57/-13.74	-15.26/-17.21	-18.66/-15.21	-15.35/-10.01	-11.65/-8.48	-9.59/-13.56	-11.95/-11.46	-6.61/-8.14	-9.44/-8.81	-12.56/-12.99	-18.6/-18.07	-18.24/-17.12	-15.8/-14.58	-17.14/-15.06	-12.73/-17.42	-18.69/-16.65	-14.64/-17.04	-19.05/-14.55	-11.47/-14.96	-18.09/-18.44
Θ(165°)	-17.03/-17.28	-18.15/-18.18	-18.68/-17.26	-17.49/-17.76	-17.45/-18.08	-15.73/-13.18	-11.29/-16.58	-13.86/-14.81	-11.27/-10.98	-8.84/-7.74	-10.14/-17.28	-14.88/-14.15	-19.24/-17.68	-11.73/-12.94	-18.56/-17.85	-18.67/-13.8	-14.48/-14.06	-18.56/-17.19	-18.64/-16.43	-17.48/-18.7	-18.64/-18.69	-19.08/-17.67	-18.62/-18.07	-18.68/-19.36
Θ(172.5°)	-18.38/-17.63	-18.08/-18.03	-16.96/-16.53	-18.45/-15.64	-16.17/-18.35	-16.85/-12.17	-10.79/-8.24	-8.98/-7.23	-8.39/-8.13	-10.74/-14.26	-19.15/-17.72	-19.25/-16.25	-14.68/-14.68	-15.84/-18.47	-18.54/-16.63	-14.49/-12.55	-14.7/-11.58	-12.26/-11.7	-13.08/-13.72	-14.61/-14.33	-17/-18.07	-18.78/-17.94	-17.7/-18.84	-18.7/-18.18
Θ(180°)	-14.5/-11.22	-9.17/-9.28	-8.21/-8.39	-8.46/-7.46	-7.41/-7.33	-8.41/-9.73	-9.16/-9.96	-10.26/-12.7	-14.75/-16.38	-17.99/-18.88	-17.51/-18.25	-17.44/-16.56	-14.57/-14.55	-17.04/-17.9	-17.55/-13	-10.48/-9.77	-9.18/-9.1	-7.92/-9.6	-8.38/-8.65	-8.57/-9.55	-9.78/-11.09	-12.25/-14.34	-16.03/-19.39	-18.94/-17.89
Freq(Hz)	6.995GPol.	ThetaAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-9.3/-11.12	-12.88/-15.23	-13.67/-13.54	-12.98/-10.91	-9.06/-7.85	-5.87/-3.47	-3.85/-2.52	-2.46/-1.28	-1.78/-1.55	-1.5/-2.32	-2.97/-3.64	-4.55/-5.72	-6.51/-7.79	-8.72/-9.82	-9.49/-11.44	-10.59/-9.67	-8.54/-6.81	-7.45/-5.2	-5.48/-3.84	-3.94/-3.24	-3.31/-3.47	-4.35/-4.28	-5.65/-5.97	-7.94/-8.37
Θ(7.5°)	-17.91/-18.31	-17.65/-19.11	-18.45/-16.36	-17.49/-11.57	-5.88/-7.54	-6.17/-5.49	-6.17/-5.49	-5.64/-4.84	-5.03/-4.26	-3.96/-3.42	-3.84/-4.2	-5.21/-6.43	-8.15/-11	-10.64/-9.55	-7.27/-5.84	-4.34/-2.67	-2.7/-2.4	-2.63/-3.07	-3.06/-4.45	-4.83/-5.42	-3.62/-4.1	-4.58/-3.43	-11.05/-15.09	
Θ(15°)	-8.48/-7.32	-6.79/-7.72	-8.61/-9.13	-10.24/-9.45	-8.66/-9.58	-9.51/-10.09	-10.32/-11.27	-8.48/-7.93	-6.33/-5.37	-4.43/-3.73	-4.77/-5.88	-7.11/-7.49	-7.4/-6.84	-5.87/-4.84	-4.29/-4.13	-4.11/-3.69	-2.15/-0.95	0.52/-0.95	2.03/-4	-5.91/-6.53	-6.44/-8.5	-9.19/-12.51	-13.67/-11.73	-10.39/-9.67
Θ(22.5°)	-8.26/-6.86	-7.2/-10.06	-12.14/-8.52	-5.89/-6.2	-6.22/-4.62	-3.13/-3.5	-3.42/-5.08	-5.08/-4.1	-3.14/-1.25	-4.01/-3.64	-1.48/-1.73	-4.33/-6.11	-6.41/-8.11	-8.06/-7.19	-12.21/-12.48	-5.46/-2.54	-2.54/-3.88	-3.7/-3.44	-2.22/-2.19	-2.64/-5.76	-8.55/-8.68	-8.41/-7.09	-7.51/-9.01	-9.23/-10.2
Θ(30°)	-7.64/-11.61	-7.56/-6.01	-5.76/-6.43	-8.64/-8.16	-4.38/-3.87	-3.27/-4.35	-5.19/-5.13	-3.32/-1.93	-2.65/-1.59	1.14/-0.93	-1.71/-1.25	-3.82/-6.38	-6.32/-3.75	-4.81/-11.02	-11.48/-9.63	-7.32/-4.46	-1.85/-0.02	-1.09/-1.96	-3.62/-4.1	-2.64/-5.76	-4.58/-3.57	-4.58/-3.43	-5.31/-5.67	
Θ(37.5°)	-8.91/-7.24	-6.16/-9.16	-9.54/-6.37	-6.33/-3.79	-4.27/-8.98	-8.89/-4.58	-1.52/-1.61	-2.50/-3.2	0.62/-3.41	-2.87/-1.93	-1.05/-3.7	-7.82/-4.97	-5.78/-2.59	-3.87/-7.71	-10.71/-8.42	-3.2/-0.35	0.780/99	2.071/38	2.92/53	1.35/-0.7	-1.01/-4.35	-3.46/-9.79	-5.36/-6.07	-7.63/-8.28
Θ(45°)	-6.24/-6.68	-4.46/-4.48	-5.19/-4.93	-3.25/-2.39	-3.78/-5.1	-3.43/-3.52	-0.630/08	0.38/-0.76	-3.16/-2.6	-3.94/-4.6	-6.13/-2.65	-4.27/-5.3	-2.92/-3.32	-6.64/-5.55	-4.74/-3.28	-0.430/-43	0.891/34	0.96/-0.13	0.291/71	1.650/56	1.3/-1.2	-4.35/-6.36	-6.57/-9.22	-7.67/-7.63
Θ(52.5°)	-5.28/-2.94	-3.29/-2.46	-5.87/-5.62	-2.42/-3.08	-9.61/-7.53	-5.21/-3.41	-1.21/-0.17	-0.91/-1.74	-0.24/-4.7	-1.79/-5.19	-6.81/-3.16	-4.26/-1.75	-9.41/-2.74	-2.35/-1.22	-3.56/-0.34	3.29/2.18	1.8/2.1	3.84/3.94	4.622/38	2.12/-0.01	-6.24/-5.96	-8.4/-7.24	-1.61/-1.36	
Θ(60°)	-3.01/-1.62	-0.96/-2.37	-6.56/-5.77	-4.59/-4.4	-5.34/-3.76	-2.14/-2.13	-1.09/0.77	-1.95/-1.45	1.02/-1.11	-2.71/-3.05	-3.31/0.55	-0.06/-0.79	-0.5/-3.79	-10.19/-6.1	-4.34/-2.06	-1.76/-0.57	1.12/2.4	2.013/07	2.532/41	2.52/2.14	3.16/0.72	-6.16/-10.44	-16.17/-7.62	0.61/1.2
Θ(67.5°)	-0.65/-0.94	-2.79/-3.14	-5.37/-6.67	-3.94/-3.41	-2.3/-1.68	-0.77/-4.73	-5.4/-1.65	0.82/-6.62	-0.73/-1.59	-1.02/-3.85	-1.34/0.74	2.98/0.82	-0.62/-1.84	-7.73/-13.05	-5.53/-0.87	0.994/-19	-0.44/0.62	-1.62/-2.22	-6.68/-0.07	1.370/64	3.041/94	-3.7/-11.8	-16.66/-12.86	1.042/81
Θ(75°)	0.64/-0.66	-2.61/-1.42	-4.43/-5.51	-3.06/-1.48	-3.74/-1.3	-3.42/-4.65	-1.92/-3.64	-0.95/-3.18	-1.38/-4.09	-1.184/-1.77	-1.021/0.05	-3.892/0.6	-1.071/0.88	-4.31/-10.86	-4.86/-2.09	1.040/-39	-0.421/55	1.79/-5.15	1.590/87	3.481/02	2.23/0.7	-7.82/-9.66	-8.23/-8.85	0.362/73
Θ(82.5°)	0.73/-0.81	-3.12/-1.86	-6.8/-5.09	-2.9/-1.66	-5.29/-2.88	-6.52/-4.42	-4.1/-3.35	-2.26/-2.44	-1.33/-6.19	-3.11/-2.32	-1.89/1.17	2.84/1.95	-1.15/-3.54	-5.12/-5.32	-12.16/-2.86	-1.63/-0.59	0.972/98	3.94/-4.04	4.48/1.98	3.93/1.94	0.53/-1.58	-10.3/-9.67	-6.99/-7.14	-0.84/-1.98
Θ(90°)	-0.22/-1.46	-2.46/-3.91	-4.82/-4.67	-4.04/-1.61	-6.22/-4.55	-4.02/-5.46	-5.6/-5.58	-1.7/-2.02	-3.28/-3.67	-6.33/-2.67	-3.92/-1.36	0.65/0	-6.22/-4.91	-18.05/-16.69	-16.87/-6.52	-3.94/-1	0.312/1	3.23/-3.77	3.80/9.7	1.430/53	0.21/-3.87	-12.79/-12.27	-7.29/-8.06	-0.920/46
Θ(97.5°)	-2.46/-2.47	-2.97/-5.1	-5.1/-6.04	-3.66/-2.94	-7.06/-6.78	-3.41/-3.41	-4.8/5.1	-0.82/-2.62	-3.31/-6.72	-1.024/-1.81	-6.13/-2.7	-2.45/-2.84	-4.41/-11.7	-16.17/-7.56	-17.89/-11.85	-2.79/-3.15	-2.31/-1.24	-9.22/-18.86	-5.2/-2.68	-11.95/-7.22	-12.61/-15.75	-9.52/-11.2	-17.72/-15	
Θ(105°)	-4.82/-3.81	-4.13/-4.15	-4.39/-9.53	-5.39/-8.05	-4.55/-3.92	-9.58/-3.43	-2.14/-4.53	-2.05/-3.35	-2.81/-10.94	-5.74/-6.46	-11.37/-5.12	-4.66/-4.05	-9.44/-9.81	-16.03/-10.69	-17.39/-12.85	-2.31/-10.33	-5.75/-4.07	-7.66/-8.23	-1.66/-9.78	-4.56/-4.1	-4.48/-13.8	-18.33/-11.87	-11.62/-13.15	-2.13/-2.66
Θ(112.5°)	-7.72/-11.7	-9.13/-67	-7.6/-15.79	-7.54/-9.88	-4.62/-4.89	-11.47/-8.35	-4.49/-6.53	-2.54/-1.92	-5.82/-7.71	-6.21/-8.42	-9/-11.01	-7.79/-8.71	-18.55/-14.37	-17.37/-10.11	-18.42/-18.84	-7.72/-19.83	-6.7/-12.9	-3.82/-12.58	-3.22/-5.68	-4.88/-5.97	-9.73/-13.82	-14.43/-9.97	-8.31/-10.21	-5.85/-5.39
Θ(120°)	-13.32/-12.46	-16.88/-9.65	-13.43/-11.17	-11.36/-5.33	-9.01/-7.73	-9.58/-5.31	-6.76/-7.59	-6.99/-7.5	-4.016/-7.88	-9.26/-6.81	-9.65/-13.18	-13.46/-18.58	-19.28/-6.81	-16.61/-16.36	-16.81/-18.53	-15.13/-11.61	-13.26/-9.21	-12.28/-18.6	-5.2/-2.68	-11.95/-7.22	-12.61/-15.73	-4.64/-9.15	-11.72/-15	-11.01/-10.63
Θ(127.5°)	-18.41/-18.95	-13.7/-8.78	-14.16/-14.11	-11.44/-8.76	-9.14/-10.34	-8.28/-11.52	-7.41/-5.67	-6.75/-8.6	-4.99/-6.01	-6.83/-8.88	-8.82/-18.7	-13.73/-13.18	-18.86/-12.39	-17.89/-18.86	-12.04/-18.93	-9.33/-5.42	-9.71/-14.65	-5.73/-17.93	-6.15/-18.14	-7.23/-12.44	-6.51/-14.94	-13.55/-8.51	-6.49/-4.86	-8.63/-19.06
Θ(135°)	-17.08/-16.85	-19.02/-7.24	-12.96/-18.65	-13.3/-10.44	-13.77/-10.27	-8.68/-12.78	-10.88/-9.96	-11.28/-6.68	-4.72/-9.95	-10.28/-12.12	-11.15/-11.11	-15.98/-17.91	-18.08/-12.63	-14.04/-14.08	-17.38/-9.89	-7.5/-14.71	-10.57/-9.03	-5.55/-14.29	-11.13/-18.67	-17.36/-8.41	-15.93/-13.45	-9.5/-10.79	-10.49/-5.33	-16.51/-18.05
Θ(142.5°)	-15.25/-9.64	-10.96/-11.82	-13.54/-17.86	-17.84/-15.15	-14.08/-14.31	-7.29/-9.24	-9.48/-6.31	-5.44/-8.31	-8.72/-18.57	-11.21/-10.06	-9.81/-14.36	-10.83/-9.66	-14.47/-15.03	-16.97/-17.39	-15.85/-18.37	-17.23/-15.52	-11.59/-18.45	-12.17/-18.51	-18.27/-14.62	-18.44/-11.86	-16.03/-18.11	-16.51/-15.06	-18.04/-18.77	
Θ(150°)	-18.38/-14.05	-10.8/-11.4	-17.4/-18.8	-12.86/-14.37	-17.21/-14.73	-12.06/-14.99	-13/-13.66	-13.41/-13.41	-8.64/-6.44	-8.09/-15.63	-15.28/-16.04	-9.7/-11.39	-17.63/-11.96	-10.62/-13.17	-18.05/-16.69	-14.62/-15.09	-11.81/-11.46	-15.28/-16.11	-17.89/-18.06	-18.3/-15.31	-16.23/-18.65	-17.63/-16.04	-12.78/-8.61	-9.68/-11.31
Θ(157.5°)	-11.11/-12.82	-17.14/-18.89	-17.73/-18.45	-11.86/-9.29	-9.39/-12.82	-12.14/-11.53	-11.19/-15.1	-17.2/-18.15	-13.69/-13.24	-10.53/-8.45	-9.38/-16.97	-15.04/-10.57	-13.37/-18.73	-18.35/-18.11	-16.22/-17.28	-17.88/-17.57	-16.08/-14.14	-13.04/-14.68	-17.9/-18.58	-18.62/-19.24	-18.12/-19.2	-12.04/-13.98	-14.81/-12.3	-14.3/-13.61
Θ(165°)	-18.81/-19.13	-19.03/-14.77	-12.8/-12.58	-10.99/-12.41	-11.6/-15.98	-18.32/-18.26	-15.23/-11.82	-16.01/-15.9	-17.66/-17.78	-13.3/-11.29	-10.36/-9.88	-12.08/-18.37	-18.11/-14.94	-12.4/-11.6	-11.52/-18.19	-19.25/-18.13	-12.64/-12.95	-9.85/-9.67	-10.88/-10.58	-11/-12.79	-15.98/-18.57	-18.79/-17.53	-17.97/-18.93	-18.11/-17.53
Θ(172.5°)	-15.12/-12.81	-14.28/-11.99	-12.63/-12.96	-14.17/-12.88	-14.83/-12.31	-14.77/-13.34	-17.37/-16.6	-15.39/-13.51	-13.26/-11.95	-12.71/-14.55	-18.59/-18.46	-16.12/-15.42	-14.79/-14.44	-17.36/-17.34	-13.24/-11.69	-11.2/-12.32	-13.43/-15.88	-16.94/-18.24	-18.27/-15.58	-				



Radiated Composite Gain Data of 6GHz_6G Ant1~4

Appendix A.2

Θ (180°)	-17.98/-18.24	-17.58/-18.91	-18.27/-18.33	-16.87/-15.94	-14.87/-14.38	-13.74/-12.41	-11.93/-11.82	-11.25/-10.49	-9.74/-9.36	-9.2/-9.01	-9.43/-10.67	-12.69/-14.46	-16.49/-16.99	-16.46/-15.96	-15.73/-16.39	-17.39/-18.95	-18.16/-19.27	-17.91/-18.06	-18.33/-17.75	-18.49/-18.39	-18.01/-17.98	-17.96/-17.67	-18.34/-19.21	-17.98/-18.76
Freq(Hz)	6.175GPol.	ThetaAnt. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-6.86/-6.06	-6.02/-5.7	-5.21/-4.64	-4.59/-4.85	-5.23/-5.64	-6.06/-6.52	-6.92/-6.63	-6.86/-6.33	-6.16/-6.18	-6.1/-6.35	-6.53/-6.54	-6.86/-6.91	-7.08/-7.71	-8.55/-9.88	-11.67/-13.39	-14.14/-14.14	-13.5/-12.72	-12.07/-10.99	-10.3/-9.56	-9.17/-8.76	-9.05/-9.44	-10.55/-10.32	-9.6/-9.33	-8.1/-7.45
Θ (7.5°)	-8.83/-7.44	-6.16/-4.87	-4/-3.47	-3.52/-4.1	-5.29/-6.12	-6.55/-6.92	-6.64/-6.17	-6.45/-6.88	-7.76/-9.34	-11.71/-14.76	-16.56/-14.87	-13.85/-13.69	-14.33/-16	-17.95/-17.85	-16.87/-12.38	-10.09/-8.58	-7.97/-7.7	-7.92/-8.46	-9.45/-10.6	-12.53/-14.1	-15.33/-16.67	-16.84/-14.83	-14.38/-12.41	-11.94/-10.2
Θ (15°)	-5.07/-3.98	-3.03/-2.42	-1.69/-2.22	-4.84/-9.14	-13.12/-16.63	-13.87/-16.62	-11.38/-8.68	-8.83/-11.84	-19.45/-17.37	-14.83/-15.5	-14.18/-13.4	-14.52/-17.61	-17.82/-18.26	-15.41/-11.37	-10.34/-9.1	-8.11/-7.82	-8.35/-9.35	-10.05/-10.65	-10.51/-9.62	-9.54/-10.4	-12.86/-14.02	-12.01/-11.55	-11.67/-9.83	-8.83/-6.39
Θ (22.5°)	-6.17/-4.47	-2.89/-1.57	-1.09/-2.93	-8.51/-19.01	-17.21/-16.59	-19.03/-18.85	-15.56/-10.5	-8.28/-8.57	-9.6/-10.05	-13.44/-17.16	-15.38/-17.81	-19.08/-18.1	-18.25/-18.14	-12.68/-12.34	-12.82/-8.88	-6.14/-5.23	-6.25/-8.58	-12.95/-18.06	-18.47/-16.03	-12.18/-10.37	-12.14/-18.89	-16.54/-9.78	-7.6/-10.41	-16.89/-10.55
Θ (30°)	-15.36/-6.13	-3.12/-1.27	-2.61/-7.45	-18.13/-16.98	-12.61/-12.46	-17.14/-11.56	-8.74/-7.94	-7.53/-9.18	-11.63/-11.28	-10.91/-12.96	-8.85/-9.81	-13.14/-16.33	-18.19/-17.98	-18.76/-13.12	-11.33/-9.66	-7.73/-7.71	-8.23/-11.33	-16.04/-12.18	-9.9/-8.72	-8.21/-12.07	-18.89/-19.34	-13.47/-9.53	-8.14/-9.89	-9.57/-11.21
Θ (37.5°)	-6.03/-2.81	-1.73/-1.29	-3/-0.8	-13.62/-11.17	-6.7/-5.48	-7.79/-6.39	-7.15/-10.55	-13.04/-12.2	-14.13/-16.58	-11.14/-12.71	-13.34/-15.21	-16.65/-17.57	-18.61/-18.54	-11.28/-11.5	-13.38/-11.63	-8.26/-7.47	-9.47/-12.44	-10.02/-8.1	-8.67/-8.7	-9.4/-14.36	-14.27/-9.59	-9.76/-6.73	-6.33/-6.52	-6.77/-8.72
Θ (45°)	-8.57/-4.3	-1.85/-1.59	-4.12/-8.74	-9.3/-9.75	-8.56/-10.33	-12.04/-6.56	-8.27/-16.15	-18.2/-14.78	-12.03/-17.88	-14.11/-11.8	-17.15/-17.5	-19.13/-18.99	-18.13/-19.04	-8.85/-13.36	-12.78/-11.4	-7.46/-10.2	-12.09/-16.08	-11.34/-10.4	-12.17/-17.7	-17.68/-19.89	-14.44/-8.86	-8.75/-5.93	-5.92/-4.05	-6.16/-6.77
Θ (52.5°)	-10.71/-5.72	-3.82/-2.92	-7.33/-7.96	-6.1/-8.75	-12.18/-17.82	-12.55/-8.14	-9.72/-13.49	-18.26/-18.38	-18.19/-18.51	-14.68/-13.93	-14.6/-16.1	-18.2/-18.41	-18.27/-19.93	-11.25/-17.7	-12.39/-13.03	-10.39/-12.27	-18.28/-18.26	-12.17/-11.16	-13.97/-16.17	-18.58/-18.62	-11.26/-9.36	-11.81/-8.93	-8.33/-5.17	-10.94/-10.44
Θ (60°)	-11.29/-9.84	-5.41/-5.99	-10.24/-9.32	-6.1/-8.87	-13.25/-12.87	-10.52/-15.3	-15.89/-11.58	-17.9/-17.7	-13.53/-18.56	-15.94/-17.68	-18.71/-18.51	-18.11/-13.66	-11.45/-16.56	-12.22/-9.84	-12.77/-17.88	-18.61/-18.68	-18.65/-18.01	-18.11/-12.19	-15.72/-13.11	-8.32/-8.89	-11.05/-7.41	-9.07/-6.53	-11.85/-13.26	
Θ (67.5°)	-9.57/-12.45	-7.97/-11.19	-13.74/-16.92	-11.4/-17.61	-13.99/-12.46	-11.53/-16.88	-16.64/-10.31	-14.34/-18.29	-17.97/-15.29	-19.35/-14.29	-9.71/-11.8	-17.47/-18.39	-18.13/-11.05	-11.28/-18.14	-12.2/-8.52	-14.87/-10.35	-18.47/-11.85	-14.33/-17.58	-9.55/-9.67	-13.01/-8.57	-8.15/-10.91	-17.26/-7.37	-6.98/-7.3	-8.33/-11.12
Θ (75°)	-12.95/-12.93	-12.22/-15.16	-18.15/-18.77	-17.21/-16.98	-17.06/-18.42	-18.52/-18.14	-18.11/-10.41	-17.04/-19.65	-18.14/-16.91	-17.79/-11.18	-9.87/-12.48	-18.8/-15.89	-18.44/-10.81	-13.21/-18.88	-16.08/-11.85	-12.69/-10.7	-18.09/-10.08	-12.17/-18.53	-10.19/-10.93	-9.68/-6.01	-8.08/-13.36	-19.16/-16.05	-10.27/-12.94	-9.25/-13.79
Θ (82.5°)	-18.19/-16.9	-16.02/-17.33	-18.08/-17.89	-18.76/-16.17	-17.4/-17.78	-18.22/-18.13	-17.93/-12.24	-18.13/-16.66	-18.23/-12.73	-18.61/-11.39	-12.98/-17.46	-16.3/-16.41	-18.37/-17.49	-17.65/-13.05	-18.99/-12.36	-18.03/-10.96	-13.4/-19.06	-9.01/-12.22	-8.76/-6.2	-9.38/-11.79	-17.27/-9.91	-15.29/-17.95	-11.87/-13.38	
Θ (90°)	-18.19/-18.47	-15.62/-16.16	-18.68/-17.8	-17.3/-16.45	-18.28/-18.71	-16.66/-18.64	-18.77/-13.73	-18.03/-18.86	-18.57/-16.06	-18.7/-14.41	-15.43/-15.51	-16.69/-15.06	-13.43/-13.36	-18.38/-16.1	-13.58/-18.86	-18.78/-18.11	-19/-17.77	-18.04/-17.94	-12.23/-16.85	-8.96/-6.83	-15.09/-14.54	-18.41/-18.49	-18.18/-17.85	-16.49/-14.26
Θ (97.5°)	-19.19/-18.63	-16.37/-14.15	-19.05/-18.8	-19.05/-17.2	-14.38/-18.74	-17.13/-17.75	-18.29/-11.39	-17.29/-15.14	-18.96/-15.94	-19.04/-18.43	-14.77/-12.92	-15.69/-18.28	-12.66/-15.21	-18.45/-17.8	-16.39/-19.21	-17.89/-18.48	-19.47/-18.25	-17.92/-18.15	-11.88/-17.81	-11.96/-12.25	-17.54/-19.16	-18.48/-17.64	-19.04/-17.91	-17.97/-14.73
Θ (105°)	-17.93/-17.2	-18.94/-18.19	-18.14/-18.15	-18.26/-17.73	-18.04/-18.71	-17.48/-18.03	-14.64/-16.15	-18.09/-15.76	-18.52/-17.83	-18.54/-18.44	-16.81/-17.33	-18.51/-17.99	-15.24/-16.36	-16.55/-18.89	-18.37/-18.04	-14.49/-16.09	-17.95/-13.92	-16.84/-14.28	-13.01/-18.03	-14.61/-14.22	-17.51/-18.46	-18.49/-14.02	-16.2/-18.01	-19.1/-15.33
Θ (112.5°)	-18.3/-18.88	-16.57/-18.37	-18.89/-18.44	-18.03/-18.22	-18.5/-17.93	-18.68/-18.1	-12.95/-17.18	-18.22/-13.18	-14.29/-18.82	-15.51/-19.05	-17.66/-16.93	-19.44/-18.52	-18.4/-18	-17.42/-15.2	-18.93/-15.95	-17.81/-18.33	-18.75/-15.17	-16.63/-17.98	-15.11/-17.9	-18.68/-18.68	-12.04/-18.44	-18.88/-15.76	-14.29/-18.02	-18.7/-14.64
Θ (120°)	-16.35/-17.3	-18.14/-18.9	-16.91/-18.7	-17.96/-18.91	-14.9/-19.05	-18.04/-15.2	-10.55/-17.78	-17.74/-16.54	-13.4/-18.65	-17.81/-18.07	-13.79/-16.31	-18.72/-18.39	-18.5/-17.66	-16.16/-18.7	-14.81/-13.46	-18.21/-16.48	-16.91/-18.02	-18.48/-17.12	-16.58/-18.92	-17.92/-19.46	-18.79/-15.01	-17.86/-15.61	-16.6/-12.11	-18.08/-16.74
Θ (127.5°)	-16.41/-18.26	-19.04/-18.45	-12.97/-18.17	-18.48/-18.6	-18.12/-16.33	-17.28/-18.61	-11.41/-12.85	-14.85/-14.62	-18.94/-17.68	-18.39/-16.54	-11.95/-14.07	-13.63/-18.12	-18.27/-18.92	-18.52/-15.55	-18.2/-14.1	-15.57/-18.47	-18.61/-18.15	-19/-14.44	-15.68/-17.18	-15.77/-18.87	-16.06/-14.53	-17.76/-16.01	-18.84/-15.65	-18.94/-13.63
Θ (135°)	-18.72/-17.42	-18.37/-18.03	-17.13/-18.25	-16.71/-17.68	-18.34/-19.03	-14.07/-18.98	-14.17/-12.49	-17.45/-9.72	-9.85/-14.57	-15.79/-18.87	-14.34/-19.13	-17/-18.42	-16.1/-17.25	-16.74/-16.31	-18.28/-16.8	-18.08/-15.63	-15.21/-18.1	-18.43/-16.81	-13.26/-13.05	-16.18/-11.99	-14.39/-17.22	-18.29/-12.93	-18.35/-18.08	-16.56/-14.8
Θ (142.5°)	-17.54/-19.02	-17.69/-18.4	-16.06/-17.72	-16.8/-18.11	-12.78/-17.7	-14.84/-13.46	-18.53/-18.84	-18.53/-17.28	-18.87/-17.33	-19/-17.41	-14.99/-12.33	-17.57/-15.99	-17.69/-13.88	-13.1/-18.27	-17.97/-17.51	-12.88/-15.73	-17.16/-16.03	-15.43/-17.02	-18.56/-17.74	-17.7/-14.34	-13.72/-15.62	-14.69/-14.83	-18.43/-18.7	-17.95/-16.68
Θ (150°)	-18.2/-17.6	-18.49/-13.2	-12.89/-15.65	-18.21/-16.09	-10.64/-14.24	-15.8/-8.84	-8.89/-8.89	-9.94/-11.03	-13.31/-15.83	-17.28/-17.73	-18.84/-18.81	-14.4/-14.77	-18.62/-18.57	-15.37/-13.97	-18.27/-19.31	-17.85/-17.13	-17.75/-18.23	-18.12/-19.27	-14.86/-14.69	-18.13/-18.69	-18.68/-18	-17.51/-15.75	-16.15/-16.78	-13.86/-16.24
Θ (157.5°)	-18.96/-16.79	-18.8/-18.85	-15.48/-11.69	-10.48/-14.16	-16.6/-16.98	-18.1/-17.89	-18.08/-18.97	-18.42/-14.37	-15.53/-18.1	-18.56/-18.8	-18.59/-18.89	-18.35/-16.59	-16.79/-14.25	-11.98/-15.41	-18.41/-18.72	-18.57/-18.43	-18.37/-17.96	-17.9/-14.75	-13.94/-16.37	-18.3/-18.65	-17.61/-17.96	-16.36/-13.68	-15.66/-14.37	-14.4/-18.48
Θ (165°)	-18.08/-18.55	-17.64/-18.85	-16.96/-13.89	-13.83/-13.91	-18.27/-17.68	-13.12/-12.35	-14.88/-13.37	-18.2/-18.17	-11.44/-12.01	-11.15/-14.26	-18.96/-17.8	-18.33/-18.25	-17.86/-16.52	-14.65/-13.22	-15.51/-14.26	-14.41/-16.38	-18.1/-17.4	-15.16/-14.14	-13.83/-13.92	-14.97/-17.82	-15.96/-15.65	-18.54/-18.29	-13.27/-17.25	
Θ (172.5°)	-17.85/-16.35	-14.42/-12.4	-12.96/-14.09	-14.44/-15.66	-18.11/-18.47	-18.08/-18.7	-18.71/-17.13	-14.61/-13.11	-11.93/-11.42	-13.88/-16.57	-18.19/-18.39	-18.91/-19.03	-18.87/-18.75	-15.66/-13.72	-15.66/-11.96	-11.57/-11.57	-10.93/-10.56	-10.24/-10.11	-10.73/-11.45	-12.62/-16.1	-18.18/-18.4	-15.67/-14.25	-18.02/-17.99	-17.45/-18.37
Θ (180°)	-19.17/-18.43	-17.3/-18.69	-18.27/-18.99	-17.65/-18.73	-18.45/-16.89	-17.22/-18.42	-18.3/-17.91	-18.59/-18.02	-18.79/-18.52	-19.24/-18.33	-17.72/-17.79	-18.59/-17.21	-17.37/-17.82	-18.42/-19	-18.69/-18.16	-17.94/-18.02	-17.83/-18.5	-18.45/-17.62	-17.55/-18.1	-18.87/-18.47	-18.22/-18.09	-18.08/-18.52	-18.55/-18.51	-17.69/-18.74
Freq(Hz)	6.475GPol.	PhiAnt. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-9.75/-10.36	-11.15/-11.32	-10.1/-8.19	-6.6/-5.44	-4.47/-3.46	-2.89/-2.72	-2.86/-2.93	-2.84/-2.94	-3.33/-3.6	-3.94/-4.63	-5.39/-6.29	-7.31/-8.04	-9.02/-9.54	-9.64/-8.56	-7.71/-7.34	-6.57/-6.43	-5.8/-5.22	-5.05/-4.67	-4.26/-4.33	-4.35/-4.45	-4.49/-4.39	-4.44/-5.19	-5.81/-6.1	-6.81/-8.11
Θ (7.5°)	-10.5/-10.41	-11.66/-12.81	-13.93/-13.42	-11.57/-9.66	-7.52/-6.19	-5.06/-4.39	-4.26/-3.61	-3.14/-2.89	-2.62/-2.42	-2.27/-2.26	-2.42/-2.98	-3.61/-4.78	-6.33/-6.05	-8.92/-8.9	-8.34/-8.72	-9.49/-10.8	-10.27/-9.78	-9.36/-9.27	-9.64/-9.89	-10.33/-11.15	-13.14/-15.75	-15.3/-13.79	-10.97/-9.69	-9.51/-9.66
Θ (15°)	-12.1/-10.3	-8.11/-6.42	-5.18/-3.54	-3.24/-3.84	-4.97/-6.93	-8.84/-10.31	-10.59/-12	-6.55/-3.95	-1.78/-0.14	0.74/0.8	0.34/-0.47	-1.54/-2.54	-3.46/-3.54	-3.42/-3.48	-4.84/-8.88	-7.24/-7.71	-7.24/-6.52	-5.28/-4.88	-3.55/-2.94	-2.25/-1.71	-1.37/-1.63	-2.34/-3.76</		



Radiated Composite Gain Data of 6GHz_6G Ant1~4

Appendix A.2

Θ(30°)	-5.9/-5.54	-6.2/-6.34	-7.6/-11.03	-15.12/-9.75	-7.82/-8.64	-14.28/-19.04	-15.03/-10.14	-11.16/-15.7	-12.77/-13.74	-18.81/-17.9	-17.6/-17.32	-15.51/-17.48	-18.82/-17.22	-17.78/-17.59	-17.94/-15.03	-11.68/-12.22	-15.51/-18.53	-15.85/-10.06	-9.92/-12.86	-13.6/-18.08	-18.42/-18.27	-14.99/-8.79	-11.22/-18.22	-12.59/-7.24
Θ(37.5°)	-11.22/-6.89	-6.22/-6.44	-11.33/-15.17	-10.09/-8.75	-5.58/-5.57	-9.08/-12.75	-11.8/-13.14	-8.51/-11.54	-12.8/-15.24	-18.68/-18.3	-17.82/-15.62	-10.12/-15.45	-17.19/-18.24	-18.02/-12.7	-15.2/-17.49	-13.09/-11.08	-14.25/-19.5	-11.84/-10.98	-12.97/-13.23	-13.61/-17.9	-18.09/-17.93	-15.17/-9.23	-11.05/-11.97	-18.03/-18.56
Θ(45°)	-6.72/-9.01	-10.43/-7.89	-13.44/-7.64	-6.04/-6.25	-6.66/-8.5	-12.84/-16.33	-12.84/-10.85	-12.64/-14.43	-12.49/-13.45	-17.71/-17.77	-17.84/-14.61	-12.83/-14.54	-16.27/-14.26	-14.39/-9.21	-16.71/-19.42	-13.39/-15.87	-12.06/-14.77	-16.77/-10.3	-10.14/-14.66	-18.19/-18.42	-18.37/-17.22	-15.7/-9.32	-12.86/-18.04	
Θ(52.5°)	-5.6/-11.78	-10.45/-11.53	-10.11/-7.02	-5.33/-9.66	-14.51/-15.45	-14.04/-16.38	-13.78/-13.72	-18.33/-18.07	-17.59/-15.45	-18.28/-18.6	-19.08/-17.17	-18.45/-17.54	-14.58/-18.76	-18.12/-11.96	-18.08/-17	-16.14/-9.39	-10.26/-13.26	-15.39/-17.45	-15.35/-12.44	-15.23/-16.81	-18.43/-19.04	-15.92/-15.48	-11.47/-9.95	-11.82/-10.02
Θ(60°)	-9.54/-10.92	-13.42/-17.61	-14.52/-6.97	-5.53/-13.58	-18.09/-18.88	-12.69/-11.4	-13.04/-15.05	-17.55/-19.7	-17.76/-19.1	-18.54/-18.99	-16.3/-18.34	-18.73/-17.47	-13.36/-18.74	-18.3/-14.43	-17.22/-16.39	-18.23/-8.33	-7.08/-9.3	-12.97/-13.88	-14.8/-14.69	-18.26/-17.77	-16.02/-18.89	-17.65/-17.87	-9.34/-11.35	-11.85/-10.54
Θ(67.5°)	-15.67/-11.79	-14.59/-15.68	-17.46/-6.85	-9.45/-18.2	-18.27/-17.32	-17.46/-6.85	-8.82/-12.2	-19.01/-18.35	-18.3/-19.04	-14.6/-18.61	-14.93/-18.13	-17.17/-16.82	-13.62/-18.01	-15.86/-13.75	-13.69/-18.33	-16.55/-8.66	-6.73/-10.51	-14.28/-15.35	-15.99/-18.15	-19.35/-12.48	-12.44/-18.38	-8.34/-12.27	-11.3/-12.49	
Θ(75°)	-15.22/-15.06	-17.5/-17.47	-18.91/-9.36	-13.58/-15.97	-15.31/-18.66	-16.08/-11.29	-11.25/-16.93	-18.53/-16.12	-19.18/-19.04	-16.32/-18.57	-11.79/-19.15	-14.22/-14.97	-14.35/-18.72	-17.83/-17.43	-14.28/-18.18	-15.25/-10.97	-8.2/-11.82	-15.1/-15.75	-18.84/-14.93	-17.72/-13.22	-11.46/-17.1	-13.71/-18.69	-8.46/-13.6	-12.08/-17.31
Θ(82.5°)	-12.37/-18.32	-18.13/-18.32	-17.79/-13.12	-16.69/-18.48	-15.23/-17.71	-14.41/-12.59	-12.12/-17.29	-18.74/-18.46	-17.7/-17.22	-17.45/-18.48	-13.51/-18.78	-10.67/-15.34	-16.1/-15.72	-17.89/-16.25	-18.52/-17.49	-13.91/-14.51	-12.74/-13.02	-14.33/-18.19	-18.94/-17.02	-15.29/-12.58	-11.6/-15.47	-13.59/-15.09	-10.07/-15.04	-13.85/-17.49
Θ(90°)	-12.67/-18.03	-18.38/-18.56	-18.08/-13.14	-15.87/-17.09	-18.16/-17.44	-11.89/-12.12	-14.78/-15.21	-18.07/-17.82	-18.76/-17.85	-17.19/-17.21	-16.16/-18.21	-8.94/-19.06	-17.99/-13.8	-18.35/-17.65	-17.43/-14.43	-16.35/-18.03	-18.62/-13.46	-13.65/-17.81	-18.16/-18.81	-17.11/-13.5	-17.66/-17.52	-16.21/-17.58	-13.46/-17.29	-18.42/-17.89
Θ(97.5°)	-18.12/-18.04	-18.47/-17.98	-18.19/-15.09	-18.38/-18.95	-19.31/-18.79	-17.8/-14.7	-17.27/-19.02	-15.26/-15.42	-18.23/-17.86	-16.32/-18.06	-17.44/-13.28	-10.43/-18.84	-18.58/-14.98	-19.18/-17.58	-14.63/-12.91	-18.89/-16.55	-18.47/-17.16	-13.96/-17.69	-17.71/-17.45	-18.56/-14.83	-15.95/-18.48	-15.51/-16.3	-13.09/-17.2	-18.11/-19.17
Θ(105°)	-18.84/-16.14	-18.51/-14	-17.71/-18.12	-16.1/-17.69	-18.66/-17.45	-17.67/-15.06	-14.93/-12.07	-16.17/-18.45	-14.92/-17.9	-18.21/-18.5	-13.81/-17.61	-18.57/-17.5	-17.23/-18.1	-11.76/-11.69	-18.65/-18.28	-16.04/-18.82	-17.65/-18.74	-17.32/-16.39	-17.56/-18.78	-17.85/-18.11	-19.16/-14.1	-14.99/-17.65		
Θ(112.5°)	-17.7/-19.19	-17.78/-15.42	-18.18/-18.11	-18.35/-18.55	-18.86/-14.75	-17.86/-18.66	-15.76/-19.56	-19.06/-15.08	-17.76/-17.99	-16.39/-18.75	-18.4/-18.05	-16.86/-18.07	-18.43/-18.07	-19.03/-15.59	-12.37/-19.13	-18.04/-18.24	-17.96/-18.4	-16.92/-17.31	-18.9/-17.28	-17.77/-17.13	-17.66/-17.66	-18.17/-18.64	-17.11/-18.59	-13.4/-18.64
Θ(120°)	-17.27/-18.76	-17.53/-18.38	-17.84/-17.71	-17.81/-18.4	-16.87/-18.9	-16.38/-19.11	-19.23/-14.9	-17.69/-14.63	-18.94/-18.87	-17.83/-17.29	-18.57/-16.08	-18.2/-18.03	-19.01/-17.48	-13.84/-16.63	-18.05/-18.22	-17.09/-17.82	-17.21/-13.05	-16.98/-19.21	-18.5/-17.64	-18.35/-19.09	-18.35/-18.11	-18.23/-17.68	-18.66/-18.45	-18.77/-17.65
Θ(127.5°)	-16.15/-18.83	-12.63/-12.63	-15.12/-10.82	-17.68/-18.74	-18.59/-17.99	-18.37/-13.42	-14.77/-17.17	-19.05/-13.33	-18.46/-18.55	-18.19/-18.56	-16.43/-18.68	-19.08/-17.85	-15.89/-17.52	-12.67/-17.61	-13.41/-11.82	-17.53/-10.29	-16.06/-18.21	-18.2/-18.9	-16.51/-17.78	-17.17/-19.27	-16.87/-17.23	-18.93/-18.38		
Θ(135°)	-17.64/-17.17	-17.77/-19.13	-18.01/-15.14	-17.73/-17.4	-17.77/-17.73	-14.1/-16.72	-17.33/-13.11	-16.91/-14.71	-13.1/-17.42	-18.85/-18.35	-19.36/-12.7	-17.58/-18	-13.29/-18.9	-15.47/-18.84	-18.16/-18.5	-16.6/-15.5	-12.47/-11.26	-18.19/-15.76	-15.71/-14.99	-17.63/-18.59	-15.45/-19.1	-18.9/-18.51	-19.42/-16.13	-18.21/-19.29
Θ(142.5°)	-18.89/-17.92	-17.72/-17.64	-18.12/-16.42	-13.57/-16.94	-17.25/-12.37	-12.61/-17.21	-17.1/-13.49	-13.94/-14.44	-18.15/-18.06	-19.36/-17.65	-15.06/-18.92	-18.73/-17.75	-19.22/-18.84	-18.38/-19.2	-18.41/-13.41	-14.33/-18.06	-11.81/-14.98	-18.73/-18.79	-19.21/-18.6	-17.83/-18.59	-18.74/-18.68	-17.34/-17.8	-18.79/-15.4	-17.88/-19.1
Θ(150°)	-18.94/-18.08	-17.99/-19.28	-17.19/-14.04	-17.15/-15.6	-11.86/-15.54	-17.73/-9.6	-9.65/-13.76	-16.21/-16.7	-13.12/-18.29	-17.16/-18.21	-17.84/-17.02	-18.49/-18.95	-16.17/-16.91	-16.37/-11.23	-14.31/-18.7	-17.43/-15.44	-15.94/-18.12	-16.68/-19.01	-18.69/-17.48	-18.2/-17.79	-17.89/-14.64	-14.56/-17.6	-16.64/-17.47	-18.88/-18.04
Θ(157.5°)	-18.59/-17.07	-12.94/-13.24	-18.43/-17.55	-17.73/-14.02	-14.85/-18.63	-15.98/-9.7	-11.12/-18.5	-16.21/-11.77	-18.16/-18.52	-16.18/-18.63	-14.51/-12.29	-16.49/-13.1	-15.18/-13.64	-18.61/-16.71	-15.48/-17.7	-15.81/-13.55	-13.36/-18.89	-17.79/-17.36	-17.36/-18.87	-19.15/-17.44	-11.21/-17.47	-16.67/-17.04	-16.02/-18.07	
Θ(165°)	-18.17/-18.76	-18.41/-12.77	-9.48/-9.87	-12.99/-18.57	-15.45/-12.49	-10.46/-11.39	-16.64/-18.24	-16.58/-12.22	-12.18/-14.11	-13.17/-12.01	-14.73/-19.06	-17.34/-17.99	-18.28/-18.7	-18.99/-18.91	-17.03/-18.63	-17.87/-17.94	-18/-18.33	-17.19/-18.82	-17.79/-18.04	-17.45/-15.66	-16.52/-18.47	-18.07/-17.97	-18.41/-18.08	-18.17/-18.53
Θ(172.5°)	-13.31/-15.29	-16.13/-16.39	-14.52/-13.48	-14.27/-16.38	-19.29/-18.49	-19.24/-18.39	-17.82/-17.64	-17.09/-17.98	-18.1/-17.97	-17.85/-18.82	-17.47/-18.59	-17.63/-17.91	-17.72/-18.59	-17.6/-18.28	-18.05/-18.28	-18.8/-18.42	-19.08/-17.15	-18/-18.16	-17.92/-15.73	-18.2/-18.55	-18.09/-15.07	-13.2/-12.69	-12.08/-10.84	-10.7/-12.08
Θ(180°)	-18.03/-17.87	-18.81/-18.11	-18.42/-18.79	-19.08/-17.96	-18.24/-18.41	-17.62/-18.08	-18.67/-18.53	-18.75/-17.93	-16.99/-17.81	-18.73/-18.38	-16.6/-12.54	-10.33/-9.22	-8.93/-8.89	-8.44/-9.42	-11.33/-12.59	-14.9/-15.62	-16.2/-18.18	-18.92/-18.29	-17.89/-18.69	-18.34/-18.4	-19.04/-18	-17.67/-19.18	-18.28/-18.28	-19.14/-18
Freq(Hz)	6.995GPol.	PhiAnt.3	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-16.84/-15.02	-11.88/-10.13	-8.67/-7.48	-6.88/-6.44	-6.38/-6.55	-6.64/-7.3	-7.55/-7.9	-8.13/-8.46	-8.49/-9.09	-9.37/-9.43	-9.66/-10.07	-11.04/-12.16	-13.31/-14.12	-16.33/-16.64	-14.27/-17.17	-9.62/-16.61	-6.51/-5.51	-4.78/-4.29	-3.8/-3.48	-3.32/-3.14	-3.45/-4.17	-5.06/-6.01	-7.34/-9.96	-12.23/-15.45
Θ(7.5°)	-12.33/-11.2	-10.29/-9.76	-9.64/-9.81	-8.08/-9.25	-9.21/-8.62	-9.02/-9.09	-9.18/-9.05	-8.8/-8.31	-7.77/-8.84	-7.53/-6.73	-6.48/-5.79	-5.37/-6.08	-5.31/-5.67	-6.57/-7.26	-4.78/-6.99	-9.02/-10.69	-14.94/-17.84	-18.68/-18.52	-16.62/-17.74	-18.43/-18.32	-17.02/-12.69	-9.81/-8.77	-8.6/-9.05	-11.81/-11.85
Θ(15°)	-9.48/-9.35	-8.3/-7.79	-9.3/-12.6	-12.07/-7.9	-5.27/-3.73	-2.28/-1.36	-0.94/-1.24	-1.73/-2.17	-2.89/-3.41	-4.04/-4.42	-4.81/-3.98	-3.13/-2.29	-2.32/-2.63	-2.81/-2.11	-1.14/-0.75	-1.25/-2.68	-4.5/-5.26	-4.99/-3.82	-2.84/-2.22	-1.93/-2.09	-2.56/-3.15	-3.24/-3.52	-4.57/-6.69	-8.22/-10.04
Θ(22.5°)	-5.32/-3.76	-2.09/-1.29	-1.22/-2.05	-2.15/-1.4	-0.23/-0.8	2.13/-2.5	2.01/-1.4	0.71/-0.42	0.44/-0.12	-0.57/-0.64	0.41/-0.87	0.68/-0.02	0.96/-0.34	-1.1/-2.1	-2.45/-1.93	-0.39/-0.49	0.86/-0.71	0.64/-0.89	1.43/-1.05	0.40/-0.21	0.05/-1.07	-3.61/-6.39		
Θ(30°)	-4.88/-5.22	-6.35/-5.77	-2.93/-0.88	-2.09/-1.02	-1.09/-0.6	1.11/-0.61	-0.4/-0.95	-0.26/-0.17	-0.09/-0.37	0.27/-0.11	0/-0.2	-13.0/-1.7	-0.20/-0.77	0.67/-0.04	0.15/-0.03	0.09/-0.03	-0.44/-0.61	-0.81/-2.53	-4.5/-4.42	-6.53/-7.22	-4.88/-0.96	0.74/-0.3	-0.85/-2.26	-4.02/-4.83
Θ(37.5°)	-1.78/-2.38	-3.06/-4.55	-4.35/-0.66	1.05/-0.64	-3.65/-4.46	-2.8/-2.83	-2.88/-1.11	0.63/-0.83	-0.02/-1	-2.18/-3.03	-1.9/-1.42	-0.8/-2.1	-1.87/-1.08	-0.36/-0.85	-0.44/-1.25	-1.08/-0.13	0.55/-1.06	0.7/-0.51	-1.71/-1.53	-2.04/-3.14	-2.67/-2.3	-3.52/-4.27	-2.5/-3.28	-3.58/-1.72
Θ(45°)	0.74/-1.6	1.41/-0.1	-1.71/-1.63	0.78/-1.4	-0.54/-2.56	-1.8/-1.1	0.49/-2.4	2.71/-0.9	3.86/-2.6	3.24/-2.38	0.82/-25	2.57/-0.63	-2.4/-0.26	0.26/-0.52	0.71/-0.53	1.97/-0.11	0.91/-0.26	0.63/-1.87	1.68/-2.61	-2.68/-0.01	0.85/-0.91	0.15/-1.24	-0.53/-1.18	-1.39/-1.07
Θ(52.5°)	0.39/-0.33	0.91/-1.45	0.52/-0.15	1.06/-1.73	-0.65/-4.01	-0.45/-2.8	1.05/-0.28	1.05/-0.59	-2.16/-2.27	-1.82/-0.42	1.84/-0.77	-1.82/-0.25	1.01/-0.24	-1.38/-1.75	-2.69/-1.4	-3.25/-2.58	-3.88/-1.9	1.04/-0.27	0.22/-0.36	0.37/-1.44	0.88/-1.77	-0.95/-2.23	-7.25/-2.62	-0.28/-1.05
Θ(60°)	-1.76/-2.83	-2.67/-1.62	-1.12/-1.76	-1.06/-0.8	-2.14/-6.6	-4.59/-2.67	-0.38/-1.79	1.32/-0.17	0.97/-0.29	-0.52/-1.77	2.88/-1.54	-2.01/-0.02	1.83/-0.98	-0.42/-0.41	0.11/-0.58	0.51/-0.18	-2.07/-2.2	-0.49/-0.65	-1.47/-4.72	-4.89/-1.4	-1.23/-0.1	-1.14/-3.33	-3.14/-3.73	-3.07/-0.21
Θ(67.5°)	-0.97/-1.64	-0.94/-7.22	-2.31/-2.52	-2.22/-1.2	-1.89/-0.71	0.61/-0.09	-0.41/-0.94	3.86/-2.6	3.24/-2.38	0.82/-25	2.57/-0.63	-2.4/-0.26	0.26/-0.52	0.71/-0.53	1.97/-0.11	0.91/-0.26	0.63/-1.87	1.68/-2.61	-2.68/-0.01	0.85/-0.91	0.15/-1.24	-0.53/-1.18	-1.39/-1.07	
Θ(75°)	0.33/-0.1	0.52/-0.45	-0.02/-1.16	-0.77/-0.42	-1.94/-1.63	1																		



Radiated Composite Gain Data of 6GHz_6G Ant1~4

Appendix A.2

Θ(75°)	-11.98/-10.55	-10.24/-18.03	-13.59/-9.12	-8.93/-17.46	-14.86/-9.11	-9.65/-12.7	-16.3/-12.29	-12.4/-18.45	-13.31/-9.9	-10.21/-11.63	-13.73/-18.84	-13.93/-14.89	-10.72/-10.36	-11.11/-17.66	-17.8/-14.15	-9.24/-10.96	-12.96/-8.95	-8.71/-9.75	-8.15/-5.83	-10.82/-11.52	-13.42/-10.17	-10.45/-9.84	-9.64/-10.59	-12.36/-11.79
Θ(82.5°)	-19.05/-13.33	-12.12/-18.43	-12.56/-10.56	-12.12/-15.77	-13.21/-8.35	-11.98/-16.37	-17.64/-17.23	-14.73/-17.95	-12.92/-14.28	-10.99/-13.24	-14.94/-18.48	-13.05/-17.57	-18.24/-11.91	-17.99/-18.28	-18.8/-10.31	-8.68/-13.38	-11.5/-8.57	-13.36/-13.28	-9.44/-5.75	-9.92/-12.22	-14.11/-11.44	-14.17/-17.72	-10.64/-12.92	-12.11/-13.47
Θ(90°)	-16.6/-18.66	-11.22/-17.74	-12.32/-12.51	-18.1/-14.47	-13.06/-7.12	-11.51/-18.43	-16.68/-18.18	-16.41/-18.92	-16.27/-16.89	-8.15/-15.18	-17.84/-14.88	-17.41/-14.33	-17.24/-14.88	-19.7/-18.06	-18.84/-12.5	-11.27/-15.78	-12.04/-12.13	-17.89/-19.06	-15.21/-9.94	-15.96/-13.04	-15.89/-10.24	-13.89/-15.12	-12.32/-12.95	-13.91/-14.74
Θ(97.5°)	-16.38/-18.38	-11.45/-18.99	-12.52/-12.35	-16.87/-17.98	-18.34/-8.81	-13.35/-17.79	-16.61/-15.19	-16.23/-18.13	-18.73/-12.87	-7.85/-16.13	-18.73/-17.98	-17.47/-13.48	-17.19/-14.33	-15.82/-19.2	-17.73/-16.35	-18.27/-11.56	-15.65/-16.18	-18.1/-18.1	-19.11/-15.63	-14.6/-16.84	-16.87/-13.3	-16.3/-18.12	-15.14/-13.37	-17.44/-17.86
Θ(105°)	-13.17/-17.18	-15.14/-14.67	-13.37/-10.95	-12.15/-15.77	-18.91/-11.98	-15.93/-18.59	-11.86/-13.48	-18.13/-15.07	-19.38/-16.64	-13.3/-14.64	-14.42/-13.14	-16.72/-13.72	-18.85/-18.88	-18.85/-17.9	-17.92/-18.04	-18.93/-9.76	-17.47/-13.45	-19.14/-18.52	-18.86/-16.88	-18.26/-17.85	-18.1/-14.53	-13.4/-18.87	-17.3/-10.24	-18.88/-18.72
Θ(112.5°)	-16.97/-17.56	-18.11/-18.14	-18.62/-15.16	-13.9/-15.22	-18.35/-18.54	-18.35/-18.54	-18.23/-16.64	-17.41/-18.41	-18.67/-17.09	-15.39/-17.73	-17.55/-14.27	-18.44/-17.39	-17.66/-18.88	-18.18/-18.58	-17.84/-14.88	-13.99/-11.34	-15.62/-15.58	-16.32/-12.39	-14.66/-15.05	-15.19/-18.03	-16.56/-16.02	-15.14/-14.19	-17.83/-14.4	-18.24/-18.85
Θ(120°)	-18.44/-17.58	-18.01/-18.53	-17.27/-19.06	-18.57/-18.4	-18.71/-18.17	-17.67/-15.54	-15.87/-17.4	-17.96/-17.31	-13.96/-15.12	-14.1/-17.99	-18.15/-14.81	-18.3/-17.06	-8.33/-18.54	-12.98/-12.23	-17.75/-13.01	-11.4/-12.83	-12.37/-16.76	-18.72/-17.94	-17.99/-15.71	-15.52/-18.24	-17.61/-19.11	-18.44/-13.69	-17.45/-18.28	-18.82/-17.34
Θ(127.5°)	-18.49/-18.43	-13.9/-16.31	-17.57/-18	-18.31/-18.77	-19.22/-18.24	-18.91/-17.06	-12.95/-11.93	-17.28/-18.3	-18.11/-18.77	-18.88/-15.4	-15.61/-18.68	-14.67/-16.02	-16.94/-18.06	-9.18/-15.83	-18.28/-13	-9.74/-18.04	-12.57/-18.5	-17.74/-18.12	-17.69/-15.1	-17.35/-18.91	-18.36/-17.61	-18.5/-16.68	-17.99/-17.51	-18.53/-16.83
Θ(135°)	-13.62/-16.99	-18.32/-18.53	-18.05/-19.05	-18.6/-18.41	-18.18/-18.38	-19.3/-18.7	-17.73/-15.92	-17.92/-17.76	-18.15/-10.39	-10.07/-18.58	-18.39/-17.13	-9.88/-14.14	-17.87/-18.88	-15.01/-18.5	-18.61/-12.68	-13.8/-14.47	-17.62/-16.17	-18.67/-18.48	-17.76/-18.83	-17.9/-18.04	-18.41/-17.49	-18.15/-14.19	-18.02/-18.98	-18.53/-18.28
Θ(142.5°)	-18.14/-18.37	-18.65/-18.23	-18.14/-17.86	-18.74/-18.84	-18.95/-18.5	-17.39/-18.61	-16.62/-15.16	-16.36/-17.17	-18.95/-19.33	-17.5/-17.46	-12.16/-15.13	-17.46/-18.45	-18.29/-13.94	-12.95/-17.29	-14.34/-17.58	-18.39/-14.1	-14.63/-19.05	-17.91/-15.57	-18.57/-17.33	-17.63/-12.46	-16.14/-17.14	-18.28/-17.29	-18.16/-13.81	-12.46/-18.37
Θ(150°)	-18.7/-18.39	-18.29/-18.65	-19.17/-10.75	-14.46/-15.46	-16.91/-17.51	-18.29/-14.92	-11.72/-11.61	-18.68/-17.68	-13.34/-17.47	-11.9/-11.92	-18.42/-18.08	-10.88/-14.31	-19.2/-12.61	-10.37/-14.63	-16.82/-12.09	-13.1/-17.22	-15.68/-13.38	-14.36/-17.77	-17.72/-17.76	-18.79/-15.42	-14.34/-18.12	-18.56/-19.72	-17.81/-19.07	-18.34/-18.1
Θ(157.5°)	-18.68/-18.57	-19.26/-18.96	-19.13/-18.69	-19.33/-14.79	-12.5/-12.96	-18.54/-17.81	-13.98/-10.63	-8.89/-10.65	-16.83/-14.61	-8.97/-9.61	-12.9/-18.92	-12.2/-10.84	-18.05/-9.29	-5.7/-7.56	-16.11/-13.54	-10.18/-11.8	-12.71/-10.65	-9.37/-10.62	-14.53/-19.11	-17.99/-18.43	-16.18/-15.3	-14.42/-16.17	-18.58/-17.56	-18.51/-18.05
Θ(165°)	-19.18/-17.98	-18.45/-17.52	-18.89/-18.15	-18.42/-18.87	-17.78/-18.29	-18.9/-17.45	-17.76/-17.97	-16.81/-16.66	-15.94/-14.13	-12.17/-12.05	-12.8/-16.8	-17.81/-16.05	-16.46/-19.11	-18.29/-18.4	-18.22/-12.88	-11.32/-12.63	-15.26/-17.99	-18.86/-19.13	-18.49/-19.05	-16.18/-14.72	-15.3/-17.17	-17.42/-17.98	-18.55/-17.92	-18.12/-18.76
Θ(172.5°)	-18.74/-18.9	-17.61/-16.34	-18.49/-18.15	-18.33/-17.37	-18.68/-18.36	-17.83/-19.36	-16.44/-13.12	-11.96/-12.44	-13.91/-15.76	-11.94/-18.12	-17.53/-18.98	-17.83/-18.58	-18.78/-18.19	-18.06/-17.99	-18.32/-18.87	-17.96/-16.88	-16.95/-17.43	-17.24/-15.77	-14.36/-13.01	-12.21/-12.19	-12.77/-13.87	-15.59/-16.69	-17.09/-18.67	-17.85/-18.96
Θ(180°)	-19/-15.78	-13.32/-12.33	-13.38/-15.72	-17.67/-18.2	-18.85/-19.02	-17.53/-18.73	-17.97/-19.14	-18.45/-19.15	-16.69/-15.77	-14.88/-14.3	-13.85/-13.61	-14.34/-16.38	-18.92/-18.76	-17.87/-18.94	-18.52/-17.27	-18.21/-18.64	-18.05/-17.86	-18.05/-18.66	-17.33/-17.74	-17.93/-18.12	-18.39/-17.92	-18.7/-18.5	-18.52/-18.08	-18.17/-18.89
Freq(Hz)	6.475GPol.	PhiAnt.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-17.87/-13.41	-13.01/-14.46	-18.11/-14.47	-18.49/-17.59	-17.85/-17.41	-18.43/-18.7	-18.51/-18.75	-16.31/-18.22	-17.84/-18.87	-14.6/-12.33	-10.84/-9.3	-8.6/-7	-6.15/-6.14	-6.18/-16.35	-6.99/-7.62	-8.88/-9.78	-10.96/-13.36	-17.21/-17.59	-17.91/-18.37	-15.71/-16.81	-13.91/-14.74	-12.32/-12.95	-13.91/-14.74	
Θ(7.5°)	-5.99/-5.61	-5.63/-6.24	-7.59/-8.18	-7.81/-7.14	-7.07/-5.6	-3.6/-2.24	-1.94/-2.11	-2.5/-3.33	-4.4/-5.45	-6.55/-7.48	-8.52/-8.69	-7.27/-4.82	-3.28/-2.7	-2.93/-3.95	-4.94/-5.33	-6.1/-7.65	-9.66/-11.32	-12.43/-14	-15.97/-17.73	-17.62/-16.69	-14.27/-12.29	-10.04/-8.13	-6.72/-6.12	-6.18/-6.35
Θ(15°)	-4.68/-5.87	-6.4/-6.05	-6.77/-7.64	-7.51/-6.09	-5.49/-6.12	-4.68/-4.99	-3.38/-3.62	-2.59/-14.3	-0.77/-0.77	-1.43/-2.38	-3.24/-3.32	-3.16/-3.4	-1.4/-4.52	-1.31/-1.81	-0.94/-1.01	-1.96/-3.79	-5.53/-7.07	-9.62/-12.91	-13.35/-9.79	-7.19/-5.15	-3.47/-3.01	-2.99/-3.03	-3.19/-3.94	
Θ(22.5°)	-3.52/-5.31	-4.9/-3.46	-2.25/-4.14	-2.91/-3.7	-2.86/-2.41	-2.57/-2.24	-1.68/-1.7	-0.2/-5	-0.83/-0.75	-0.18/-1.17	-1.75/-0.84	-0.27/-0.3	-0.45/-1.29	-0.65/-0.67	1.53/-1.67	1.63/-1.87	1.63/-0.58	-1.51/-1.37	-1.65/-1.89	-2.77/-3.85	-3.88/-3.24	-1.08/-0.91	-1.04/-1.84	-2.13/-2.15
Θ(30°)	-3.82/-2.86	-0.95/-0.16	-0.16/-0.72	-1.1/-1.71	-2.25/-2.28	-1.51/-1.01	-0.03/-0.65	0.87/-0.21	-1.24/-0.94	-0.23/-0.21	-1.4/-0.2	1.08/-1.95	1.52/-1.77	1.81/-29	0.780/-66	0.80/-93	0.37/-0.58	-1.41/-2.11	-1.60/-42	1.66/-1.34	0.86/-0.69	0.63/-0.12	-1.1/-2.18	-2.67/-3.55
Θ(37.5°)	-3.39/-2	0.72/-09	1.57/-58	0.06/-26	-1.59/-2.56	-2.16/-1.73	-0.12/-1.4	1.22/-98	0.01/-59	-0.28/-5	1.51/-36	1.59/-25	2.49/-23	-0.07/-0.39	-0.27/-0.28	-0.40/-06	0.17/-58	-0.72/-82	2.22/-43	1.91/-17	1.23/-06	-0.89/-2.67	0.79/-97	
Θ(45°)	0.030/-38	1.62/-43	2.14/-62	1.76/-26	1.09/-1.59	2.97/-2.86	-2.03/-0.85	-0.65/-0.98	-1.69/-3.12	-2.17/-1.7	-1.93/-0.67	0.02/-1.12	-0.40/-74	1.35/-42	-2.94/-239	-0.01/-102	2.21/-57	0.69/-08	0.67/-031	0.82/-29	1.380/-55	0.190/-21	-0.61/-1.61	-0.21/-97
Θ(52.5°)	1.78/-1.27	1.45/-1.08	1.57/-2.14	2.06/-3.16	2.47/-0.11	-1.480/-0.7	0.09/-0.72	-1.0/-0.82	-0.69/-2.41	-2.35/-3.23	-3.6/-18.4	-2.07/-3.15	-3.04/-1.89	-1.31/-4.13	-2.48/-2.37	-2.14/-0.87	0.07/-0.28	-0.86/-1.2	-2.44/-4.41	-2.97/-0.48	-0.060/-59	-1.62/-0	0.40/-18	2.54/-88
Θ(60°)	1.83/-1.79	1.70/-64	0.96/-1.83	2.93/-82	3.55/-1.74	0.28/-1.96	2.390/-95	1.12/-1.1	1.18/-106	-0.740/-67	0.19/-0.28	-1.58/-3.44	-5.54/-2.26	-0.34/-0.49	-0.34/-0.29	-2.33/-4.48	-4.09/-4.53	-3.1/-2.42	-0.99/-2.15	-1.450/-89	1.04/-1.1	-1.590/-21	0.090/-46	3.12/-73
Θ(67.5°)	1.75/-1.44	1.70/-31	0.3/-4	2.14/-82	2.78/-1.31	1.74/-89	3.572/-98	2.57/-1.06	1.62/-1.61	0.84/-1.68	2.290/-25	-0.56/-3.03	-4.5/-0.26	-0.030/-53	1.470/-03	-1.25/-2.21	-3.08/-2.64	0.630/-41	-0.48/-0.5	1.48/-1.53	1.630/-68	-0.710/-85	1.74/-22	3.33/-36
Θ(75°)	1.050/-98	0.48/-0.11	-0.150/-75	1.162/-67	1.68/-1.15	2.32/-76	1.74/-1.65	3.420/-37	2.14/-1.15	0.42/-1.63	1.48/-0.14	-1.44/-5.74	-4.27/-1.27	-1.69/-1.15	1.16/-0.38	-0.44/-0.25	0.32/-1.04	2.44/-19	1.212/-75	2.89/-193	1.690/-01	-0.330/-3	2.362/-37	2.64/-41
Θ(82.5°)	-0.39/-0.43	-1.51/-1.03	-0.150/-22	-0.58/-1.25	0.43/-1.54	-0.22/-0	-0.06/-1.98	0.30/-62	1.15/-1.36	-1.35/-0.88	-2.44/-1.78	-4.51/-7.46	-8.96/-4.27	-2.70/-82	-0.12/-0.62	-0.61/-0.53	0.99/-193	2.81/-56	1.78/-25	1.77/-108	0.86/-0.99	-0.47/-0.82	0.80/-25	1.81/-0.54
Θ(90°)	-2.73/-2.54	-3.02/-3.14	-1.69/-1.35	-1.960/-25	-1.08/-0.29	-1.95/-1.81	-1.19/-4.78	-1.550/-32	-1.03/-0.55	-5.04/-1.21	-2.7/-2	-6.23/-4.48	-9.29/-6.53	-4.54/-2.26	-3.34/-3.21	-1.48/-2.47	-1.46/-0.34	1.6/-0.84	-0.50/-	-0.04/-1.64	-1.85/-1.87	-0.38/-2.15	-0.76/-1.91	-0.63/-2.76
Θ(97.5°)	-4.63/-3.98	-4.58/-3.42	-2.74/-1.92	-4.08/-3	-3.13/-1.76	-3.68/-3.12	-4.15/-5.96	-3.09/-1.94	-3.16/-5.84	-6.1/-5.82	-3.77/-5.12	-5.69/-8.61	-11.67/-5.66	-5.72/-4.25	-5.34/-6.79	-5.42/-6.03	-6.02/-4.18	-1.2/-5.31	-4.41/-2.65	-2.11/-3.6	-4.79/-3.42	-1.56/-3.26	-2.59/-4.27	-2.87/-5.4
Θ(105°)	-6.3/-5.11	-4.63/-7.5	-5.45/-5.06	-3.29/-4.47	-5.42/-9.86	-5.71/-3.59	-2.75/-5.29	-3.16/-6.32	-4.75/-4.74	-6.37/-4.47	-4.21/-2.94	-6.59/-12.75	-7.64/-6.42	-10.8/-5.07	-6.3/-7.34	-7.5/-6.9	-8.88/-6.72	-2.43/-6.67	-5.11/-3.35	-1.5/-5.26	-6.35/-5.27	-3.14/-3.38	-3.94/-4.41	-5.88/-5.27
Θ(112.5°)	-8.1/-0.84	-7.2/-9.83	-7.64/-6.44	-4.67/-5.76	-7.81/-6.21	-6.59/-7	-7.92/-9.32	-8.43/-5.81	-8.01/-5.91	-6.69/-7.83	-10.67/-7.54	-17/-13.85	-10.23/-12.75	-13.64/-5.66	-7.3/-8.7	-9.31/-8.2	-6.59/-9.27	-5.74/-8.86	-6.22/-8.1	-7.06/-7.92	-6.41/-6.41	-5.83/-5.11	-6.82/-5.13	
Θ(120°)	-8.24/-10.38	-13.01/-13.01	-9.48/-8.13	-8.11/-8.54	-7.71/-7.77	-6.96/-7.03	-3.7/-6.72	-7.68/-1.26	-6.13/-8.03	-6.8/-12.75	-7.17/-7.25	-10.77/-12.3	-14.76/-18.14	-13.52/-5.84	-9.31/-18.73	-15.85/-18.25	-12.87/-12.22	-15.68/-15.19	-17.41/-18.69	-15.6/-13.58	-17.05/-12.32	-11.04/-1		



Radiated Composite Gain Data of 6GHz_6G Ant1~4

Appendix A.2

Θ(127.5°)	-18.38/-18.6	-18.55/-18	-19.35/-17.72	-17.63/-18.08	-15.78/-17.43	-18.15/-18.14	-17.93/-18.74	-17.99/-16.83	-17.73/-18.08	-19.24/-19.21	-17.42/-18.02	-17.78/-16.3	-17.68/-15.19	-9.11/-18.95	-17.66/-18.07	-11.8/-12.75	-17.4/-15.37	-18.37/-19.08	-18.23/-18.68	-18.59/-17.87	-14.86/-16.03	-18.01/-17.4	-18.91/-17.05	-17.68/-17.98
Θ(135°)	-17.89/-19.01	-16.43/-18.08	-17.42/-18.84	-18.44/-18.69	-18.96/-18.66	-19/-18.42	-14.48/-15.96	-18.27/-19.12	-17.78/-18.77	-15.1/-16.73	-16.94/-18.07	-14.48/-19.25	-14.68/-14.27	-18.44/-19.33	-17.75/-18.08	-13.36/-14.53	-14.82/-13.45	-18.62/-17.84	-17.64/-18.07	-18.31/-18.3	-18.19/-18.06	-18.51/-17.74	-18.46/-18.96	-18.67/-18.4
Θ(142.5°)	-17.67/-18.24	-19.28/-17.82	-18.48/-18.56	-19.15/-17.38	-17.71/-17.81	-15.88/-14.59	-15.78/-18.04	-13.84/-16.42	-17.67/-18.25	-17.2/-17.5	-13.14/-12.45	-17.36/-16.85	-17.39/-14.98	-14.56/-13.73	-15.16/-17.14	-18.42/-12.77	-15.84/-19.11	-17.05/-18.65	-17.32/-17.65	-17.89/-18.84	-17.46/-18.66	-18.38/-17.37	-18.9/-17.92	-17.95/-18.6
Θ(150°)	-18.89/-17.47	-17.92/-18.58	-17.93/-17.5	-17.91/-18.36	-18.9/-18.34	-18.57/-18.23	-15.14/-11	-12/-18.9	-12.28/-13.34	-19.04/-13.81	-18.92/-19.14	-17.8/-13.03	-17.34/-12.62	-11.79/-17.12	-17.1/-12.77	-14.97/-16.71	-19.04/-18.58	-17.94/-17.45	-17.64/-18.95	-14.08/-15.09	-17.7/-18.5	-18.83/-18.05	-19.02/-18.64	-17.72/-19.05
Θ(157.5°)	-18.49/-17.66	-18.27/-18.8	-18.64/-17.17	-18.64/-17.52	-17.92/-12.42	-11.58/-12.59	-16.93/-17.34	-11.69/-9.54	-10.65/-14.79	-8.95/-8.64	-17.65/-14.16	-10.34/-10.82	-19.22/-12.14	-7.93/-13.18	-15.29/-9.1	-9.5/-11.23	-10.04/-9.9	-13.2/-18.34	-17.93/-16.92	-13.24/-12.91	-15.63/-17.21	-16.5/-15.48	-16.71/-18.83	-17.4/-16.67
Θ(165°)	-17.8/-18.48	-18.62/-18.04	-18.84/-17.77	-18.09/-18.67	-18.07/-18.55	-17.89/-19.11	-17.88/-14.62	-12.08/-11.55	-15.41/-17.23	-13.44/-13.12	-15.9/-16.06	-14.31/-18.52	-18.66/-14.09	-15.67/-18.19	-14.11/-12.67	-14.44/-18.58	-18.05/-17.03	-17.35/-17.54	-17.11/-15.74	-14.78/-15.38	-17.12/-18.01	-18.06/-18.2	-19.02/-18.05	-18.69/-18.4
Θ(172.5°)	-16.34/-17.45	-16.57/-15.31	-17.13/-18.58	-17.97/-16.52	-16.22/-18.15	-18.24/-17.68	-18.59/-18.26	-18.62/-19.04	-18.5/-18.24	-18.87/-18.94	-18.24/-17.8	-19.64/-18.16	-18.16/-18.23	-18.54/-17.73	-18.16/-18.21	-17.95/-18.45	-16.4/-18.07	-17.28/-16.12	-15.5/-15.43	-13.35/-14.18	-14.54/-14.73	-16.49/-18.68	-19.33/-16.57	-18.32/-17.23
Θ(180°)	-17.76/-14.73	-12.72/-15.18	-17.33/-18.88	-17.71/-18.79	-18.45/-17.2	-18.93/-17.6	-18.08/-18.76	-18.22/-19.15	-17.23/-15.62	-15.52/-15.69	-14.55/-15.23	-14.53/-14.71	-17.9/-17.28	-18.5/-17.4	-17.4/-18.4	-18.44/-19.25	-19.11/-18.5	-18.05/-18.06	-19.46/-18.87	-18.35/-17.58	-19.09/-18.19	-19.15/-18.21	-18.03/-17.68	-18.05/-17.5
Freq(Hz)	6.995GPol.	PhiAnt.4	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-12.67/-16.99	-18.34/-17.72	-19.01/-17.71	-17.33/-17.42	-16.3/-13.5	-12.36/-11.89	-11.28/-10.75	-9.92/-9.39	-8.83/-8.44	-7.42/-6.65	-6.42/-6.47	-6.35/-6.72	-6.98/-6.71	-5.9/-5.45	-5.8/-6.44	-6.88/-7.09	-7.83/-9.45	-12.51/-16.57	-17.92/-17.18	-18.26/-16.26	-13.94/-11.22	-10.48/-9.85	-10/-11.19	-11.13/-11.07
Θ(7.5°)	-13.09/-14.3	-16.36/-18.36	-18.31/-19.14	-18.59/-16.29	-13.08/-11.8	-10.8/-10.56	-9.46/-8.97	-7.7/-5.93	-4.38/-3.42	-2.88/-3.09	-3.9/-4.56	-5.28/-5.69	-5.73/-4.86	-3.64/-2.47	-2.23/-1.92	-2.88/-2.66	-2.97/-4.02	-5.22/-5.92	-6.13/-6.05	-7.08/-8.5	-9.62/-10.15	-10.64/-10.82	-10.86/-11.84	-12.56/-12.97
Θ(15°)	-5.27/-5.24	-3.6/-2.07	-1.86/-2.71	-3.04/-3.69	-4.84/-5.59	-4.05/-3.2	-3.34/-3.39	-2.89/-3	-3.11/-2.31	-1.43/-1.06	-1.18/-1.07	-0.51/-0.18	-0.29/-0.6	-0.92/-1.99	-4.57/-7.06	-7.64/-7.76	-7.34/-7.38	-6.81/-5.63	-3.44/-1.71	-0.91/-1.11	-1.87/-3.28	-3.8/-3.39	-2.56/-2.39	-2.89/-4.33
Θ(22.5°)	-3.36/-3.25	-2.22/-1.12	-0.29/-0.27	-0.47/-1.01	-1.94/-2.35	-1.27/-0.6	0.43/-0.82	1.47/-0.99	0.19/-0.3	-0.59/-0.57	-0.39/-0.11	0.33/-0.11	0.2/-1.21	-2.99/-2.76	-1.09/-0.51	-1.16/-0.94	-0.37/-0.96	-2.31/-3.02	-3.09/-2.09	-0.28/-0.92	0.56/-0.29	-0.83/-1.37	-1.65/-1.68	-2.34/-3.09
Θ(30°)	-0.44/-0.52	0.28/-0.93	-1.13/-0.14	0.46/-0.14	-1.69/-4.05	-4.3/-3.46	-3.18/-2.54	-0.29/-0.77	0.97/-0.27	-3.49/-3.56	-2.69/-1.79	0.22/-15	0.39/-0.08	-0.39/-0.1	0.63/-1.9	1.93/-0.02	-2/-1.32	0.07/-0.64	0.84/-1.61	1.66/-0.27	-1.55/-2.91	-2.83/-1.92	-2.06/-1.46	
Θ(37.5°)	1.21/-1.83	1.11/-0.18	-0.20/-0.89	1.69/-1.39	0.79/-0.01	-0.88/-1.37	-2.28/-2.72	-1.33/-0.42	0.68/-0.22	-2.81/-1.4	-0.12/-0.52	0.13/-0.93	0.47/-1.04	1.74/-2.88	1.41/-1	-2.24/-1.13	-1.93/-3.08	-5.17/-4.28	-1.63/-0.25	0.64/-0.98	0.81/-0.44	-0.55/-2.22	-2.88/-1	-0.9/-0.21
Θ(45°)	0.44/-0.07	0.19/-0.23	-0.44/-0.67	0.64/-0.77	0.15/-0.11	0.06/-0.92	-1.76/-2.57	-1.31/-0.95	-0.59/-1.25	-1.23/-1.3	-0.07/-0.92	-0.4/-0.73	-1.82/-2.63	1.31/-47	-0.47/-1.94	-0.80/-17	-1.54/-1.61	-0.43/-0.55	-1.95/-0.04	1.36/-1.92	0.92/-1.37	-0.89/-1.92	-1.46/-0.35	-0.27/-0.06
Θ(52.5°)	0.12/-0.92	-0.69/-0.12	-1.22/-1.39	-0.87/-0.81	-1.37/-0.76	-1.14/-0.8	0.31/-0.61	-0.65/-2.72	-2.49/-1.11	-3.77/-4.78	-4.08/-3.84	-2.29/-4.76	-4.98/-2.63	-1.77/-3.89	-8.35/-6.61	-1.96/-0.32	-1.03/-1.31	0.04/-0.22	-1.75/-1.34	-1.73/-0.58	-1.15/-2.11	-1.12/-1.77	0.73/-1.37	1.26/-1.5
Θ(60°)	-0.43/-2.3	-1.34/-0.51	-1.04/-1.64	-1.11/-1.12	1.05/-0.94	-0.5/-1.93	-0.36/-2.17	0.93/-1.24	-0.25/-0.24	-1.65/-0.3	-2.13/-1.12	-3.06/-5.55	-2.25/-2.98	-2.55/-1.32	-2.78/-3.49	-3.98/-4.75	-5.91/-5.87	-4.53/-4.24	-4.11/-3.37	-4.17/-0.52	-1.72/-1.27	-0.69/-2.1	0.74/-1.46	1.11/-1.27
Θ(67.5°)	-2.94/-3.89	-2.4/-1.5	-0.77/-0.2	0.82/-0.83	1.76/-1.19	-0.21/-1.12	1.84/-1.05	-1.28/-3.5	1.03/-38	-0.68/-1.54	-0.08/-0.43	-3.3/-2.87	-1.09/-3.68	-0.19/-2.15	2.21/-0.11	-0.94/-4.47	-3.36/-2.22	-1.72/-2.27	-0.84/-1.09	0.11/-19	-0.68/-0.93	-1.29/-0.72	1.68/-0.97	-0.03/-0.23
Θ(75°)	4.07/-4.1	-2.13/-1.64	-0.14/-1.59	1.77/-0.97	2.55/-0.38	1.76/-2.19	1.31/-0.79	-1.88/-1.6	2.22/-23	-1.87/-1.5	-0.88/-1.75	1.39/-0.73	-2.19/-1.5	-0.25/-3.35	-0.16/-2.03	2.35/-1.29	1.77/-47	0.18/-0.24	0.32/-1.85	0.99/-1.81	2.44/-2.14	-0.17/-0.52	0.94/-0.85	-0.92/-1.21
Θ(82.5°)	-2.94/-2.23	-1.3/-2.35	-0.26/-1.43	1.97/-0.67	0.97/-0.33	1.05/-0.65	-2.52/-2.28	-1.37/-0.28	1.29/-1.12	-1.81/-0.26	-0.48/-1.03	-2.6/-3.45	-0.67/-2.93	-1.21/-1.84	0.62/-1.33	3.07/-2.78	1.3/-0.08	0.03/-2.13	0.85/-1.85	3.23/-1.24	-2.03/-4.1	0.41/-1.45	0.78/-0.94	-1.5/-1.81
Θ(90°)	-2.85/-3.68	-3.02/-3.47	-0.8/-0.52	-0.03/-0.17	-0.4/-1.65	0.01/-2.2	-3.74/-4.22	-2.45/-3.06	1.25/-0.68	-2.6/-1.82	-2.54/-2.17	-4.89/-5.09	-3.61/-0.79	-0.29/-0.51	0.53/-1.11	0.31/-3.21	-2.71/-4.84	-1.18/-0.24	1.49/-1.21	-2.39/-3.72	-1.65/-1.81	-0.45/-0.79	-2.81/-2.19	
Θ(97.5°)	-4.03/-5.39	-4.57/-3.33	-1.91/-1.49	-2.02/-0.75	-1.04/-4.97	-1.23/-2.9	-6.43/-6.14	-3.12/-4.91	-1.58/-2.38	-4.02/-3.26	-2.88/-3.59	-6.09/-5.69	-7.12/-5.18	-6.5/-2.71	-1.29/-1.94	-0.32/-4.55	-5.07/-7.46	-4.11/-12.66	-5.03/-2.46	-4.19/-3.02	-2.78/-2.65	-2.48/-2.67	-3.77/-5.59	
Θ(105°)	-7.78/-6.36	-5.55/-6.12	-5.82/-2.35	-2.49/-4.11	-2.33/-3.84	-10.21/-4.03	-4.4/-6.12	-5.77/-1.13	-7.28/-4.32	-6.54/-3.43	-2.44/-5.31	-3.99/-10.15	-7.65/-3.87	-10.06/-5.07	-2.24/-3.33	-2.71/-7.45	-6.74/-6.93	-4.14/-8.4	-4.77/-3.32	-2.28/-6.81	-6.61/-3.13	-6.64/-2.63	-3.88/-4.5	-3.94/-6.33
Θ(112.5°)	-7.57/-6.22	-8.29/-9.21	-7.91/-3.94	-5.3/-3.3	-7.47/-4.96	-3.78/-10.13	-8.85/-11.09	-5.91/-13	-3.54/-10.91	-7.91/-3.98	-7.28/-5.1	-7.48/-8.82	-5.88/-8.7	-12.51/-14.8	-1.33/-6.37	-6.29/-5.89	-8.02/-0.64	-8.11/-9.17	-10.23/-17.58	-5.2/-16.32	-8.32/-3.63	-7.68/-7.3	-5.87/-5.09	-7.07/-9.87
Θ(120°)	-8.5/-8.96	-12.61/-11.62	-7.45/-6.05	-3.37/-4.84	-6.28/-9.01	-8.13/-6.52	-5.46/-8.53	-15.25/-4.75	-10.28/-8.29	-9.11/-6.77	-5.06/-5.38	-11.81/-7.76	-11.77/-12.88	-10.59/-4.22	-4.39/-10.24	-13.34/-6.65	-16.18/-8.78	-6.85/-10.6	-5.13/-11.15	-9.81/-13.35	-12.77/-6.48	-8.42/-4.25	-8.85/-8.67	
Θ(127.5°)	-14.12/-10.45	-10.15/-14.17	-11.86/-10.15	-8.84/-8.69	-6.72/-8.07	-8.65/-6.71	-6.68/-10.69	-9.14/-18.38	-7.86/-13.08	-9.07/-9.56	-4.28/-8.16	-8.73/-7.64	-10.28/-11.57	-11.95/-5.19	-11.3/-9.11	-3.63/-9.75	-9.37/-5.45	-10.74/-9.74	-5.53/-6.82	-7.61/-13.54	-11.89/-3.97	-13.5/-10.32	-7.38/-7.07	-11.41/-12.86
Θ(135°)	-9.69/-10.6	-14.92/-12.58	-11.69/-8.95	-7.78/-6.49	-8.41/-8.8	-5.81/-7.66	-8.99/-10.71	-18.68/-11.9	-12.31/-11.15	-7.99/-7.95	-8/-5.36	-7.13/-17.37	-18.23/-13.33	-9.26/-7.24	-6.53/-12.07	-9.79/-10.59	-14.18/-8.28	-12.99/-9.65	-18.7/-12.69	-12.44/-13.45	-12.42/-5.89	-9.19/-9.96	-11.16/-8.82	-9.57/-8.25
Θ(142.5°)	-10.66/-12.91	-14.28/-18.28	-18.39/-12.71	-8.16/-7.79	-8.6/-7.72	-8.47/-9.83	-8.68/-11.6	-18.95/-16.36	-18.38/-13.73	-18.27/-8.75	-7.97/-10	-13.34/-18.18	-17.3/-12.37	-8.99/-6.24	-7.18/-8.51	-15.53/-19.11	-15.88/-9.77	-11.13/-12.75	-9.1/-8.06	-10.42/-18.48	-12.1/-13.48	-8.31/-8.36	-13.88/-18.21	-14.99/-14.04
Θ(150°)	-14.09/-13.43	-11.63/-7.56	-7.67/-11.45	-14.7/-11.44	-8.34/-7.71	-9.4/-9.25	-5.06/-5.47	-14.69/-9.72	-8.56/-13.01	-18.86/-17.01	-10.08/-6.68	-9.52/-9.18	-9.39/-11.1	-10.09/-8.92	-11.51/-14.61	-18.15/-18.08	-17.13/-14.88	-13.42/-13.01	-15.4/-13.51	-15.39/-15.05	-18.04/-12.32	-9.38/-9.44	-13.16/-14.34	
Θ(157.5°)	-12.37/-14.12	-16.94/-19.36	-16.94/-12.28	-10.9/-12.45	-17.41/-13.3	-9.57/-8.48	-10.39/-12.88	-9.89/-9.94	-18.02/-13.77	-11.27/-15.72	-17.92/-15.73	-14.29/-14.48	-13.87/-14.29	-16.84/-13.67	-13.74/-14.42	-12.53/-11.36	-11.85/-14.79	-17.36/-14.24	-10.31/-11.47	-17.44/-18.45	-17.93/-17.85	-16.19/-17.12	-15.91/-11.73	-9.56/-10.66
Θ(165°)	-16.39/-14.83	-10.78/-11.88	-14.74/-17.29	-18.17/-18.19	-18.12/-18.53	-18.58/-14.49	-11.53/-11.92	-18.37/-17.68	-15.92/-14.06	-13.61/-12.81	-12.95/-13.57	-14.63/-15.3	-17.31/-17.79	-13.84/-12.01	-11.51/-10.72	-9.93/-10.93	-14.57/-17.36	-17.65/-16.61	-13.78/-14.56	-17.72/-17.01	-13.06/-11.3	-10.89/-12.43	-15.25/-17.92	-18.12/-18.59
Θ(172.5°)	-17.84/-18.97	-18.18/-18.77	-18/-19.19	-18.24/-19.09	-18.11/-18.24	-18.39/-18.42	-18.01/-17.98	-18.98/-18.88	-17.31/-18	-18.34/-17.86	-17.95/-18.12	-18.58/-14.9	-13.65/-11.85	-10.18/-9.91	-11.47/-13.7	-16.05/-16.29	-16.45/-18.71	-19/-						



Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	2.42	4.11	4.34	5.46	3.49	3.46	4.88	5.13	4.76
Ant. 2 Max Gain (dBi)	2.86	3.32	3.52	3.7	4.34	5.68	4.13	4.75	4.59
Ant. 1 Polarization/Θ(°)/Φ(°)	Theta/52.5/97.5	Phi/22.5/300	Phi/22.5/300	Phi/22.5/300	Phi/30/292.5	Phi/30/292.5	Theta/67.5/202.5	Theta/67.5/202.5	Theta/75/202.5
Ant. 2 Polarization/Θ(°)/Φ(°)	Theta/52.5/135	Phi/15/112.5	Phi/30/90	Theta/75/307.5	Theta/82.5/300	Theta/82.5/307.5	Theta/82.5/307.5	Theta/82.5/300	Theta/82.5/300
Max Gain (dBi)	2.86	4.11	4.34	5.46	4.34	5.68	4.88	5.13	4.76
DG [1SS] (dBi)	4.23	5.88	6.57	7.04	5.34	5.85	4.88	5.32	4.5
DG [1SS] (dBi) Revised	4.23	5.88	6.57	7.04	5.34	5.85	4.88	5.32	4.76
DG [2SS] (dBi)	2.86	4.11	4.34	5.46	4.34	5.68	4.88	5.13	4.76



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

DG 1SS Result

Freq(Hz)	2.45G/Pol.	Phi-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-6.98-6.38	-4.97-3.15	-1.47-0.37	0.290.85	1.562.3	2.672.63	2.382.19	2.061.8	1.203.6	-0.71-1.96	-3.44-5.06	-6.67-7.68	-7.28-6.18	-4.86-3.82	-3.14-2.5	-1.63-0.57	0.4711.12	1.321.25	1.121.12	1.191.16	0.904.5	-0.171-1.01	-2.24-3.73	-5.31-6.67
Θ(7.5°)	-7.69-7.66	-6.53-4.44	-2.32-0.71	0.431.29	2.112.88	3.353.39	3.122.76	2.422.02	1.310.33	-0.91-2.26	-3.77-5.55	-7.3-8.63	-8.98-7.99	-6.29-4.91	-3.96-3.23	-2.54-1.82	-0.96-0.2	0.250.39	0.310.19	0.160.17	0.14-0.04	-0.47-1.3	-2.38-3.76	-5.15-6.62
Θ(15°)	-8.82-9.6	-9.58-7.72	-4.94-2.55	-0.780.55	1.542.47	3.173.5	3.43.02	2.582.07	1.250.06	-1.33-2.62	-3.9-5.54	-8.04-10.04	-11.52-10.72	-8.14-6.19	-4.91-3.83	-2.95-2.44	-2.07-1.59	-1-0.5	-0.18-0.14	-0.38-0.63	-0.79-0.92	-1.29-2.01	-3.07-4.38	-5.88-7.54
Θ(22.5°)	-8.74-9.83	-11.89-11.14	-8.05-4.57	-1.770.13	1.222.02	2.723.27	3.463.25	2.732.07	1.08-0.23	-1.71-1.29	-3.96-5.49	-8.17-11.15	-11.42-8.7	-6.34-4.98	-4.23-3.64	-3.03-2.57	-2.15-1.71	-1.17-0.62	-0.180.09	-0.04-0.57	-1.27-1.88	-2.38-2.88	-3.71-4.92	-6.53-7.58
Θ(30°)	-8.46-9.73	-11.38-12.23	-8.88-5.14	-2.130.01	1.211.91	2.312.71	3.043.2	2.912.12	0.88-0.62	-2.06-3.06	-3.79-4.91	-7.15-9.9	-9-4-6.98	-4.9-3.71	-3.17-3.04	-3.01-2.73	-2.03-1.09	-0.240.25	0.404.07	0.414-0.01	-0.91-2.24	-3.09-3.07	-2.98-3.69	-5.15-7.08
Θ(37.5°)	-8.07-9.55	-11.54-12.32	-8.73-4.78	-2.04-0.15	0.971.57	1.811.82	1.992.38	2.481.83	0.35-1.43	-2.77-3.43	-3.84-4.73	-6.84-9.34	-8.32-6.89	-5.22-4.11	-3.57-3.48	-3.33-2.81	-2.13-1.31	-0.370.22	0.30.02	-0.27-0.46	-1.07-2.45	-3.16-2.69	-2.19-2.82	-4.28-6.15
Θ(45°)	-8.44-10.03	-11.68-13.8	-10.63-5.89	-2.79-0.93	0.010.56	0.931.05	0.870.96	1.451.39	0.13-1.96	-3.43-3.74	-3.73-4.74	-6.98-8.87	-8.08-7.67	-6.37-5.12	-4.66-4.58	-3.85-2.67	-1.85-1.39	-0.87-0.37	-0.23-0.59	-1.08-1.33	-1.72-3.05	-4.15-3.22	-2.36-2.78	-4.22-6.29
Θ(52.5°)	-9.06-10.23	-11.06-13.26	-12.73-7.82	-4.13-2.22	-1.47-0.98	-0.230.44	0.22-0.37	0.210.8	0.02-2.21	-4.08-3.94	-3.86-5.63	-8.04-7.94	-7.21-7.34	-6.7-6.7	-5.75-5.54	-4.08-2.99	-2.42-1.91	-1-4-0.9	-0.73-1.02	-1.22-1.18	-1.64-3.17	-4.98-4.6	-3.81-3.89	-4.88-6.93
Θ(60°)	-9.78-9.74	-10.01-12.03	-13.25-9.65	-6.12-3.56	-2.47-2.13	-1.53-0.7	-0.74-1.49	-1.010.04	-0.18-2.38	-5.37-4.88	-4.43-5.86	-6.19-6.49	-6.97-7.67	-7.26-6.09	-6.59-6.24	-4.94-3.96	-2.75-1.51	-0.91-1.45	-1.78-1.22	-1.45-3.24	-5.15-5.04	-5.61-6.13	-5.81-6.34	-6.94-8.34
Θ(67.5°)	-9.93-8.39	-8.57-10.87	-15.19-12.02	-7.55-4.85	-3.36-2.99	-2.41-1.39	-1.21-2.07	-2.08-0.76	-0.81-3.55	-6.71-4.61	-4.11-1.77	-7.25-6.73	-7.31-8.74	-7.59-6.91	-3.84-6.54	-4.24-4.34	-6-41-5.93	-4.48-2.35	-1.15-1.84	-2.62-1.88	-2.07-4.49	-6-47-4.88	-5.89-7.66	-7.73-9.05
Θ(75°)	-10.32-8.26	-8.18-10.55	-14.57-15.2	-10.61-7.19	-5.65-5.16	-3.83-1.93	-1.36-2.64	-3.44-1.7	-1.24-3.64	-6.38-4.18	-3.83-6.07	-8.25-6.95	-6.97-8.96	-8.63-8.75	-8.25-7.37	-7.83-5.28	-8.02-8.1	-7.65-4.55	-2.67-4.37	-3.88-2.28	-2.39-5.56	-8.25-6.44	-6.67-7.77	-7.12-8.44
Θ(82.5°)	-9.29-8.92	-8.96-11.92	-14.34-15.84	-12.43-9.19	-8.02-7.61	-5.47-3.05	-2.5-4.02	-0.84-2.53	-1.82-4.55	-7.33-4.57	-3.67-6.07	-7.15-6.01	-6.46-8.86	-8.32-8.58	-9.93-7.6	-5.22-6.27	-9.62-9.09	-9.06-5.07	-2.41-3.29	-4.98-3.23	-3.21-6.48	-8.58-7.85	-8.03-8.64	-7.76-8.71
Θ(90°)	-9.85-9.22	-8.95-10.29	-11.96-14.58	-14.65-10.2	-8.99-9.76	-7.48-4.43	-3.28-1.43	-5.52-4.12	-3-4-0.67	-7.12-3.95	-3.22-5.87	-7.12-5.33	-5.57-7.23	-8.08-9.1	-12.06-8.92	-5.71-6.65	-9-4-7.15	-8.64-6.87	-3.16-3.71	-6.09-5.05	-5.16-8.06	-7.96-7.63	-9.17-8.8	-8.09-9.24
Θ(97.5°)	-10.05-9.48	-9.58-10.35	-10.79-13.37	-14.83-10.32	-8.75-10.01	-10.02-6.53	-4.73-5.42	-6.46-4.55	-3.64-5.66	-7.26-4.82	-4.01-5.24	-4.89-4.44	-5.08-7.69	-9.68-10.56	-11.01-8.76	-6.82-8.78	-9.51-7.44	-8.27-7.36	-4.05-4.98	-6.71-4.98	-5.73-9.22	-6.74-5.84	-9.04-10.05	-8.59-9.53
Θ(105°)	-9.79-9.56	-9.58-9.36	-9.62-11.58	-14.28-12.26	-9-2-9.14	-8.63-6.63	-5.34-6.1	-7.73-6.34	-5.16-6.84	-8.04-4.7	-3-4-0.2	-5.81-6.71	-7.07-8.64	-8.01-7.2	-8.37-9.22	-9.03-11.55	-11.12-8.19	-9.04-7.47	-4.58-6.96	-7.64-4.94	-5.33-9.21	-7.56-6.02	-8.94-10.45	-8.49-9.76
Θ(112.5°)	-9.33-10.24	-10.35-10.17	-9.56-10.84	-14.13-13.75	-11.81-11.7	-10.23-6.99	-5.44-6.64	-8.21-5.43	-3.73-4.76	-6.68-5.08	-4.27-5.73	-6.82-6.08	-5.17-5.67	-5.94-7.03	-10.12-13.32	-13-4-12.12	-9.54-9.12	-11.7-8.1	-5.85-7.23	-7.87-6.28	-7.21-8.93	-7.23-6.33	-8.91-10.29	-8.22-8.05
Θ(120°)	-9.58-10.49	-10.56-9.18	-8.85-10.99	-13.1-10.75	-9.07-9.71	-12.56-13.32	-9.97-9.87	-7.19-4.14	-3.16-5	-8.59-7.22	-5.05-4.37	-4.71-5.53	-5.64-6.01	-7.19-9.11	-13.95-15.17	-15.29-13.4	-9.99-10.59	-11.3-8.56	-6.75-6.55	-5.51-5.14	-7.13-9.41	-7.35-6.05	-7.22-9.65	-10.8-9.42
Θ(127.5°)	-9.73-10.69	-11.11-8.47	-7.85-9.75	-12.08-10.02	-8.19-7.18	-12.76-12.5	-11.76-12.1	-13.03-12.4	-11.83-11.63	-12.44-14.54	-15.85-13.76	-10.08-8.83	-9-10-13	-12.51-13.48	-12.5-10.96	-10.94-11.71	-14.09-14.75	-11.45-9.77	-8.67-7.98	-7.2-6.77	-7.16-8.33	-9.58-10.14		
Θ(135°)	-8.78-9.24	-9.52-8.56	-8.59-10.42	-13.05-11.6	-8.83-7.01	-7.25-9.57	-10.62-10.12	-10.16-9.27	-8.23-8.03	-8.54-8.5	-6.97-5.9	-6.7-9.83	-13.11-15.65	-13.84-12.25	-13.71-15.73	-15.19-12.08	-10.83-11.5	-10.57-7.66	-6.96-7.34	-6.66-6.33	-7.37-8.51	-8.38-8.77	-9.94-9.75	-9.18-8.59
Θ(142.5°)	-8.41-7.99	-6.87-7.62	-7.94-10.84	-14.55-12.67	-10.38-10.35	-11.44-11.7	-11.44-10.21	-9.33-8.68	-8.95-9.82	-12.61-11.31	-9.12-7.25	-7.7-10.34	-13.95-14.48	-13.05-10.97	-11.29-13.04	-13.58-13.55	-12.91-12.97	-13.48-11.25	-10.46-11.11	-10.67-9.29	-8.74-8.15	-7.49-7.62	-9.10-7.7	-9.64-8.7
Θ(15°)	-4.93-8.09	-6.55-5.95	-6.28-7.63	-9.78-11.54	-11.76-12.5	-12.29-12.41	-13.03-12.4	-11.83-11.63	-12.44-14.54	-15.85-13.76	-10.08-8.83	-9-10-13	-12.51-13.48	-12.5-10.96	-10.94-11.71	-14.09-14.75	-11.45-9.77	-8.67-7.98	-7.2-6.77	-7.16-8.33	-9.58-10.14			
Θ(157.5°)	-10.27-9.3	-8.13-7.73	-8-2-9.46	-11.61-13.34	-14.22-12.59	-11.93-11.31	-11.48-11.08	-11.52-11.4	-11.78-12.63	-12.53-11.54	-10.31-9.77	-10.03-10.55	-11.89-14.68	-14.96-13.3	-12.8-11.9	-11.96-12.78	-14.29-15.3	-14.95-15.61	-14.94-13.53	-11.82-10.23	-8.99-8.16	-7.03-6.57	-6.88-7.85	-9.43-10.46
Θ(165°)	-9.27-8.56	-8.5-9.18	-10.36-11.53	-12.7-13.47	-15.5-14.98	-13.9-12.61	-11.77-10.18	-10.37-10.07	-10.28-10.94	-11.77-11.98	-11.56-10.17	-10.78-11.27	-12.42-13.99	-15.19-17.47	-14.94-14.96	-15.03-15.58	-15.65-15.79	-15.55-15.77	-14.71-12.78	-11.79-11	-10.18-8.77	-8.17-8.25	-8.79-9.57	-10.15-9.43
Θ(172.5°)	-9.17-8.99	-9.49-10.41	-11.04-11.34	-12.13-13.49	-15.4-15.72	-15.59-14.98	-14.97-14	-12.44-11.66	-11.47-14.54	-13.06-12.52	-12.24-12.59	-12.31-12.89	-13.87-15.67	-15.01-15.67	-14.96-15.16	-15.47-15.51	-15.49-14.43	-14.64-13.56	-13.26-13.4	-12.59-11.64	-10.96-10.72	-10.99-11.13	-10.79-10.51	-10.52-9.66
Θ(180°)	-10.47-10.82	-11.44-11.93	-11.92-12.64	-14.5-15.19	-14.71-15.83	-15.71-15.09	-15.18-15.55	-13.77-13.24	-13.41-13.65	-14.06-14.7	-14.21-14.02	-13.59-14.02	-14.71-14.69	-12.53-10.51	-9.27-8.89	-9.49-10.99	-12.99-12.74	-13.35-13.13	-12.32-11.44	-11.06-10.72	-10.54-10.53	-10.59-10.56	-10.66-10.45	-10.66-10.3
Freq(Hz)	2.45G/Pol.	Theta-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	2.332.47	2.522.44	2.081.2	-0.2-1.74	-2.81-3.76	-5.23-6.54	-7.03-5.18	-3.55-2.45	-1.61-0.98	-0.320.34	0.981.53	1.851.99	2.012.05	1.971.65	0.92-0.15	-1.41-2.41	-3.18-3.92	-4.85-5.64	-6.06-5.86	-4.91-3.81	-2.8-1.81	-0.96-0.2	0.471.13	1.732.18
Θ(7.5°)	1.952.21	2.412.52	2.291.54	0.25-1.36	-2.66-3.47	-3.74-3.69	-3.3-2.42	-1.23-0.19	0.470.82	1.1-1.8	1.361.55	1.611.5	1.291.02	0.660.17	-0.5-1.33	-2.31-3.26	-3.94-4.26	-4.34-4.32	-4.26-4.16	-3.94-3.65	-3.15-2.39	-1.55-0.9	-0.210.34	1.051.57
Θ(15°)	1.141.51	1.892.14	2.041.43	0.33-0.93	-1.62-1.48	-1.09-0.97	-0.95-0.77	-0.240.54	1.311.79	1.941.8	1.571.35	1.080.69	0.13-0.54	-1.3-2.02	-2.57-2.9	-3.25-3.69	-3.63-3.23	-3.15-3.15	-2.76-2.54	-2.41-2.38	-2.27-1.9	-1.25-0.65	-0.190.12	0.400.75
Θ(22.5°)	0.460.8	1.261.62	1.621.08	0.07-0.79	-4.070.46	1.031	0.720.4	0.330.67	1.492.3	2.712.56	2.051.52	1.0-3	-0.45-1.38	-2.27-3.07	-3.71-4.16	-4.29-3.98	-3.26-2.59	-2.21-2.13	-1.81-1.53	-1.19-0.72	-0.170.31	0.550.5	0.330.33	
Θ(30°)	0.370.6	1.141.55	1.561.11	0.24-0.31	0.281.44	2.252.37	1.961.49	1.371.52	1.972.75	3.393.4	2.972.47	1.921.16	0.36-0.26	-0.76-1.33	-2.1-2.86	-3.35-3.42	-3.22-3	-2.43-1.74	-1.17-0.57	-0.28-0.06	0.30-8.9	1.491.88	1.931.62	1.030.54
Θ(37.5°)	0.831.05	1.551.81	1.681.13	0.920.83	0.991.52	2.242.51	2.312.14	2.372.67	2.833.22	3.843.95	3.593.18	2.681.94	1.321.21	1.230.81	-0.11-1.21	-2.06-2.23	-2.16-1.78	-1.29-0.55	0.390.98	1.171.28	1.662.34	3.06-4.2	3.312.76	1.961.21
Θ(45°)	1.461.64	2.062.14	1.891.66	1.751.97																				



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

Θ(75°)	-1.74/3.57	-6.6/-10.27	-8.91/4.83	-1.13/1.23	2.51/3.82	4.5/5.03	5.57/5.68	5.84/5.71	5.28/4.82	4.41/3.43	2.17/0.63	-0.97/-2.81	-5.02/-8.59	-9.67/-9.87	-8.04/-4.5	-2.83/-0.75	1.57/2.73	3.78/4.77	5.27/5.62	5.7/5.5	4.94/3.46	3.88/2.92	2.21/1.19	0.07/-1.01
Θ(15°)	-2.76/-4.26	-6.85/-12.02	-10.37/-3.27	0.68/2.73	3.85/4.69	4.9/5.21	5.45/5.57	5.68/5.61	4.91/4.31	4.03/5.51	2.43/0.96	-0.63/-2.71	-6.16/-10.21	-13.71/-11.31	-9.87/-7.7	-4.17/-1.36	1.04/3.09	4.18/5.2	5.77/6.21	6.5/6.23	5.73/5.06	4.32/3.44	2.55/1.35	-0.39/-1.92
Θ(22.5°)	-2.4/-3.93	-6.69/-10.06	-7.85/-3.15	-0.58/0.93	2.12/3.18	4.02/4.61	5.23/5.39	5.11/4.68	4.3/3.68	3.15/2.9	2.08/0.72	-0.94/-3.26	-6.14/-8.82	-12.64/-14.77	-8.95/-4.75	-1.7/0.21	1.48/2.66	3.82/4.83	5.25/1.6	5.28/6.16	5.76/5.93	4.68/3.31	2.09/0.42	-1.29/-1.88
Θ(30°)	-2.75/-4.05	-7.26/-9.64	-6.01/-4.14	-2.95/-0.82	1.84/3.2	4.11/5.26	5.63/5.78	5.32/4.24	3.16/2.39	1.89/1.39	1.04/0.41	-1.23/-3.42	-5.29/-6.39	-7.6/-9.63	-7.58/-6.28	-2.94/-0.1	1.75/2.43	2.72/3.59	4.9/5.28	4.86/4.65	5.22/5.31	4.18/3.49	2.23/0.69	-1.92/-3.59
Θ(37.5°)	-4.78/-5.65	-8.69/-6.65	-5.59/-5.26	-3.72/-4.28	-0.55/1.27	3.25/4.82	4.96/4.82	4.29/3.01	2.26/0.95	0.24/-0.26	0.28/0.12	-2.38/-5.1	-6.85/-11.37	-9.58/-8.41	-9.5/-6.38	-4.26/-1.27	0.54/1.46	3.12/4.12	4.89/5.64	4.87/4.35	4.19/3.21	2.95/2.99	1.97/0.94	-0.1/-3.95
Θ(45°)	-7.08/-11.41	-8.37/-5	-6.4/-6.6	-2.58/-1.89	-1.07/1.48	3.53/4.09	4.02/2.87	2.04/2.33	1.23/-0.6	-0.86/-0.79	-1.07/-1.1	-2.37/-3.05	-3.88/-5.91	-6.85/-6.48	-5.8/-6.5	-4.07/-1.68	-0.33/0.9	3.02/4.79	4.58/4.44	4.46/4.17	3.75/1.95	1.15/1.19	0.84/-0.19	-0.95/-3.96
Θ(52.5°)	-11.98/-13.26	-11.49/-8.98	-8.73/-4.65	-2.6/-1.72	0.05/1.77	3.16/3.04	2.52/0.8	0.76/0.27	-0.95/-0.48	-1.44/-3.79	-2.83/-1.47	-3.6/-3.64	-6.11/-5.05	-5.72/-7.92	-9.08/-7.46	-6.15/-3.79	-2.4/-1.91	0.05/1.78	2.77/3.53	3.75/3.48	3.21/0.9	0.08/-0.97	-2.08/-2.03	-3.04/-5.11
Θ(60°)	-12.28/-10.11	-12.77/-11.5	-5.99/-3	-2.86/-2.27	-0.76/0.81	2.13/1.84	0.42/0.23	-2.73/-3.54	-1.42/-2.35	-4.24/-4.06	-5.64/-4.12	-6.71/-6.93	-7.89/-5.72	-7.27/-9.11	-13.08/-11.78	-9.04/-5.62	-4.84/-2.73	-0.84/0.67	2.03/2.2	1.58/0.92	0.44/-0.18	0.68/-1.09	-2.37/-2.86	-4.6/-6.87
Θ(67.5°)	-10.21/-10.51	-14.1/-10.85	-7.82/-3.54	-4.05/-3.53	-2.05/-0.96	0.24/0.3	-0.97/-2.35	-5.18/-4.86	-3.2/-2.5	-4.74/-6.68	-8.06/-5.95	-8.4/-9.64	-8.71/-6.63	-8.68/-10.57	-14.41/-8.52	-8.93/-7.6	-6.86/-5.2	-1.09/-0.41	1.12/0.57	0.02/1.57	-1.27/-0.05	-1/-2.27	-1.93/-2.7	-6.87/-7.06
Θ(75°)	-13.86/-12.78	-15.52/-11.69	-10.8/-8.78	-6.31/-6.29	-4.17/-2.64	-1.39/-1.7	-2.81/-3.04	-5.61/-6.44	-3/-3.45	-7.36/-8.22	-8.43/-8.53	-11.3/-11.81	-10.59/-8.23	-7.77/-11.85	-12.84/-7.12	-8.26/-6.5	-5.19/-5.16	-1.38/0.09	-0.34/0.24	0.33/-0.31	-1.76/-2.95	-2.77/-3.72	-5.5/-4.94	-7.89/-10.19
Θ(82.5°)	-13.47/-11.27	-15.24/-11.56	-12.85/-9.08	-8.31/-7.32	-4.64/-3.95	-2.89/-3.9	-5.64/-5.7	-5.52/-7.4	-5.92/-4.58	-8.5/-10.61	-9.28/-8.55	-13.65/-13.36	-9.71/-10.64	-9.57/-14.71	-10.23/-7.51	-7.6/-6.43	-2.07/-2.36	-3.08/-1.41	-1.03/-0.77	-2.81/-3.93	-5.19/-5.81	-5.14/-6.06	-9.56/-10.98	
Θ(90°)	-15.64/-11.55	-15.48/-13	-12.8/-10.61	-11.3/-8.01	-6.49/-5	-4.12/-6.12	-6.93/-5.55	-7.23/-7.22	-7.98/-6.94	-8.87/-8.4	-14.1/-13.88	-10.26/-14.85	-9.56/-12.75	-14.85/-9.21	-9.21/-8.52	-8.88/-5.55	-5.1/-3.87	-6.13/-4.21	-3.67/-1.22	-6.28/-6.61	-10.01/-9.7	-7.49/-9.35	-12.92/-13.97	
Θ(97.5°)	-12.82/-11.77	-15.48/-12.02	-15.39/-13.61	-13.67/-9.16	-7.36/-7.34	-5.95/-7.84	-8.04/-5.91	-7.84/-7.4	-7.92/-8.34	-10.52/-9.34	-10.76/-9.63	-11.48/-11.12	-9.06/-14.38	-12.95/-15.65	-15.65/-10.88	-9.92/-11.93	-10.71/-7.73	-12.69/-9.88	-9.18/-9.05	-8.22/-6.6	-7.36/-9.14	-13.52/-10.41	-12.03/-13.86	-12.21/-14.32
Θ(105°)	-12.2/-14.45	-16.03/-13.99	-15.53/-13.89	-13.81/-10.29	-7.95/-10.98	-10.9/-7.71	-7.75/-5.8	-7.26/-8	-10.8/-8.5	-11.75/-8.52	-9.47/-8.56	-8.33/-11.6	-9.71/-15.86	-14.12/-15.13	-13.97/-15.61	-12.28/-13.24	-10.76/-8.89	-11.82/-12.68	-12.6/-13.04	-12.51/-9.82	-10.2/-11.35	-11.63/-13.41	-8.84/-12.92	-13.54/-13.89
Θ(112.5°)	-12.37/-13.63	-15.42/-13.29	-14.75/-13.86	-11.81/-10.52	-8.3/-10.27	-9.36/-6.02	-6.23/-5.65	-6.73/-6.23	-8.03/-9.15	-12.57/-8.87	-11.58/-8.46	-7.86/-11.25	-9.94/-12.45	-14.05/-13.12	-14.68/-14.51	-9.23/-13.54	-12.89/-13.22	-9.6/-6.17	-7.57/-12.47	-10.33/-9.61	-5.94/-7.34	-15.25/-9.33	-10.66/-14.59	-11.75/-10.82
Θ(120°)	-13.89/-15.27	-14.61/-15.33	-14.15/-12.06	-12.18/-13.83	-10.89/-9.18	-9.83/-8.25	-6.19/-5.08	-6.62/-9.02	-8.29/-12.92	-12.53/-9.63	-10.27/-10.91	-9.64/-9.76	-10.5/-12.37	-12.32/-11.83	-12.19/-15.48	-13.21/-15.5	-10.42/-10.37	-6.77/-5.72	-6.18/-9.43	-11.98/-8.08	-9.5/-11.49	-15.44/-10.15	-12.38/-13.22	-11.64/-12.74
Θ(127.5°)	-12.2/-11.39	-13.55/-13.59	-14.97/-15.5	-15.09/-15.24	-12.14/-8.86	-6.5/-6.06	-7.65/-6.78	-9.5/-8.57	-10.75/-8.5	-12.18/-5.42	-6.08/-8.28	-14.73/-7.11	-10.74/-14.23	-13.76/-11.82	-12.27/-15.46	-14.55/-15.04	-12.51/-8.02	-8.56/-10.7	-10.4/-8.64	-11.46/-7.69	-7.74/-11.41	-13.76/-9.34	-8.79/-14.19	-12.62/-13.29
Θ(135°)	-8.01/-13.48	-13.26/-13.43	-13.1/-12.97	-11.67/-12.74	-10.92/-8.13	-6.26/-6.2	-7.11/-9.95	-5.42/-6.39	-9.43/-7.67	-9.88/-8.31	-10.74/-12.21	-10.49/-8.04	-11.77/-11.81	-15.56/-15.17	-15.66/-12.87	-10.22/-10.51	-14.61/-13.85	-8.88/-10.41	-11.91/-9.84	-8.93/-11.64	-10.31/-11.72	-12.19/-12.54	-12.27/-10.47	
Θ(142.5°)	-7.31/-9.77	-12.4/-13.28	-13.69/-11.25	-7.72/-7.55	-9.54/-10.51	-7.97/-6	-5.04/-4.61	-5.98/-7.79	-9.73/-9.72	-10.93/-7.07	-8.36/-12.07	-9.43/-8.81	-15.66/-14.77	-15.25/-13.27	-11.22/-11.95	-12.05/-10.87	-11.23/-13.47	-14.92/-12.3	-9.31/-10.37	-10.07/-12.43	-13.14/-10.06	-8.66/-12.43	-11.5/-9.22	-9.74/-10.38
Θ(150°)	-11.95/-9.38	-10.94/-11.07	-12.7/-15.31	-13.09/-10.36	-8.97/-9.55	-7.55/-7.67	-10.9/-11.27	-8.59/-8.18	-11/-12.52	-12.91/-8.8	-7.7/-8.12	-9.58/-9.97	-11.38/-10.63	-11.45/-14.63	-14.47/-15.2	-15.64/-15.1	-14.41/-12.82	-11.82/-12.27	-14.37/-14.75	-12.31/-11	-8.57/-7.08	-7.06/-10.02	-9.71/-6.13	-6.13/-12.43
Θ(157.5°)	-11.08/-13.01	-14.49/-14.27	-14.29/-13.52	-13.75/-14.58	-13.3/-12.18	-10.37/-9.29	-10.07/-12.98	-15.93/-11.48	-9.54/-8.37	-9.27/-11.84	-13.64/-15.43	-14.04/-13.49	-15.83/-14.34	-14.44/-11.99	-12.08/-10.75	-9.54/-9.64	-8.78/-10.7	-11.95/-12.61	-11.07/-9.77	-8.46/-8.88	-8.87/-8.24	-8.76/-10.43	-11.83/-12.39	-11.61/-11.15
Θ(165°)	-15.56/-15.08	-15.4/-14.11	-11.91/-10.77	-9.7/-8.96	-9.2/-8.25	-8.61/-10.38	-11.09/-11.3	-10.03/-8.71	-8.08/-8.79	-11.08/-14.12	-14.68/-14.65	-12.74/-13.63	-15.94/-15.19	-14.06/-12.4	-11.06/-10.11	-9.53/-10.2	-11.44/-14.09	-14.98/-13.65	-11.03/-11.3	-9.4/-9.24	-10.85/-11.57	-11.11/-11.43	-11.79/-11.85	
Θ(172.5°)	-14.3/-15.25	-15.31/-13.73	-12.89/-12.69	-12.45/-12.84	-12.14/-11.99	-11.83/-9.97	-8.43/-7.54	-6.98/-7.47	-9.25/-12.63	-15.72/-15.06	-13.16/-14	-14.41/-15.91	-15.25/-14.25	-13.73/-13.17	-14.12/-13.35	-14.72/-14.38	-12.25/-11.16	-9.47/-4.74	-6.94/-6.92	-7.4/-8.02	-7.88/-8.22	-9.32/-10.66	-12.14/-13.38	-13.74/-13.54
Θ(180°)	-14.21/-14.06	-13.1/-13.06	-13.55/-13.72	-14.26/-14.7	-14.08/-13.95	-11.95/-10.75	-11.06/-10.82	-11.65/-13.22	-12.16/-11.09	-9.62/-9.18	-10.67/-14.3	-15.34/-15.86	-15.48/-15.83	-15.28/-13.75	-12.61/-11.33	-10.74/-8.94	-8.38/-8.34	-7.61/-8.01	-8.78/-9.51	-9.26/-9.5	-10.04/-10.67	-10.49/-9.77	-10.33/-11.7	-14.35/-14.33
Freq(Hz)	5.3GPol.	ThetaL	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	2.94/3.38	3.53/3.63	3.63/3.46	3.22/1.1	1.63/0.76	1.73/2.4	4.33/-7.6	-11.58/-15.37	-11.15/-8.29	-4.87/-5.22	1.84/2.31	2.76/3.45	3.63/5.2	3.43/3.27	2.74/2.26	1.75/0.66	0.68/-13.83	-3.8/-7.24	-10.5/-13.6	-12.68/-9.96	-5.48/-3.03	-1.18/0.23	-1.18/0.23	1.32/1.9
Θ(7.5°)	3.74/4.44	4.72/5.04	5.25/5.24	4.93/4.4	3.63/2.8	1.61/-0.4	-1.76/-4.25	-7.57/-9.91	-8.17/-6.07	-3.45/-1.6	-0.17/-1.24	2.05/2.29	2.42/3.7	2.27/2.63	2.74/2.59	2.59/2.36	1.89/1.18	0.08/-1.64	-3.97/-7.51	-12.29/-12.5	-9.65/-7.21	-4.17/-2.07	-0.51/0.8	1.66/2.43
Θ(15°)	2.36/2.85	3.53/3.93	4.18/4.54	4.58/4.14	3.36/2.47	1.46/-0.16	-1.48/-2.74	-4.38/-5.24	-5.51/-5.06	-3.86/-2.61	-1.27/-0.01	1.04/-1.56	1.64/-1.77	2.13/2.69	2.93/2.75	2.42/2.11	1.87/1.45	0.44/-0.72	-2.33/-4.6	-8.08/-11.86	-10.04/-5.64	-3.56/-1.25	0.23/-1.1	1.62/1.63
Θ(22.5°)	0.61/11	1.85/2.11	1.82/2.2	2.6/2.5	2.32/2.24	1.84/0.58	-0.82/-2.03	-3.62/-4.26	-4.67/-5.58	-5.87/-4.74	-4/-3.4	-2.71/-2.07	-1.27/-1.05	-1.25/-0.46	0.42/0.66	0.86/0.76	-0.13/-1.11	-2.42/-3.2	-4.09/-5.31	-5.48/-5.77	-6.57/-6.71	-5.96/-3.75	-2.01/-1.05	-0.29/0.14
Θ(30°)	-1.45/-1.17	-0.54/-0.52	0.11/1.2	1.95/1.81	1.89/2.18	2.03/0.53	-1.77/-3.88	-4.96/-5.15	-4.85/-5.17	-5.21/-4.99	-5.96/-6.46	-0.88/-2.99	-2.76/-3.09	-2.35/-1.74	-1.39/-0.63	-0.79/-0.59	-0.02/-0.46	-0.98/-2.11	-3/-4.07	-4.96/-4.4	-5.49/-6.12	-6.27/-4.97	-4.44/-3.27	-2.93/-1.81
Θ(37.5°)	-6.18/-4.14	-3.74/-4.73	-3.6/-1.89	0.07/1.18	2.05/2.37	2.45/-1.84	0.21/-1.4	-3.87/-4.44	-4.48/-6.2	-6.56/-6.83	-8.57/-7.9	-5.85/-5.05	-4.86/-3.14	-1.98/-1.3	-1.33/-1.01	-0.8/-0.67	-0.2/0.38	-0.03/-1.48	-2.43/-3.74	-6/-5.66	-6.7/-8.73	-12.14/-9.16	-7.03/-7.46	-6.52/-7.56
Θ(45°)	-8.53/-5.09	-4.31/-4.49	-4.08/-0.43	-3.15/-1.91	0.60/6.6	0.87/0.7	0.5/-0.41	-1.06/-1.96	-2.49/-3.31	-4.81/-3.4	-5.13/-5.52	-6.79/-9.31	-9.87/-6.2	-4.46/-1.94	-1.32/-0.61	-0.53/-0.32	0.89/1.27	1.13/-0.13	-1.88/-3.79	-4.87/-4.47	-4.93/-7.15	-7.34/-10.54	-11.18/-7.07	-7.87/-8.59
Θ(52.5°)	-11.02/-10.93	-4.92/-4.62	-3.93/-3.87	-4.73/-2.84	-0.88/0.53	0.62/-0.14	-0.11/-0.9	-1.55/-0.28	-0.15/-0.99	-3.27/-2	-4.04/-4.24	-3.69/-4.69	-5.09/-9.44	-5.27/-1.8	-0.34/-0.57	-1.03/-0.66	-0.42/-0.07	-1.11/-0.74	-1.58/-2.02	-2.97/-1.93	-4.17/-5.29	-4.8/-8.24	-12.54/-9.19	-7.23/-6.2
Θ(60°)	-6.88/-6.72	-9.39/-7.61	-3.83/-2.94	-2.71/-1.71	-0.89/-1.36	-1.33/-0.93	-1.27/-1.09	-1.62/-0.04	-1.81/-1.56	-2.34/-3.55	-5.23/-3.													



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

Θ(52°)	-6.95/-10.54	-13.26/-10.76	-9.43/-6.64	-3.1/-1.27	-0.69/-1.12	1.99/-1.93	2.52/-0.24	-1.71/-3.11	-5.26/-4.22	-2.64/-3.25	-3.3/-4.82	-4.61/-3.13	-2.8/-4.01	-10.06/-14.86	-6.38/-6.43	-6.61/-6.83	-4.43/-2.41	-0.91/-1.1	1.34/-2.36	3.36/-3.06	0.72/-0.93	-1.16/-0.66	-2/-4.05	-5.75/-6.84
Θ(60°)	-11.54/-10.13	-13.3/-11.02	-8.73/-6.17	-2.7/-0.6	0.85/-1.33	2.28/-1.73	1.27/-1.8	-3.23/-4.95	-4.27/-4.29	-3.94/-3.41	-7.98/-5.6	-3.18/-4.04	-6.76/-11.47	-6.95/-9.99	-12.57/-8.68	-7.05/-5.17	-3.21/-35	1.06/-2.26	2.34/-1.44	-0.07/-2.79	-1.74/-0.29	-3.47/-10.82	-8.59/-8.32	
Θ(67.5°)	-13.05/-12.38	-14.51/-15.62	-9.57/-5.84	-5.06/-3.39	-1.26/-0.56	1.08/-0.77	-0.22/-4.24	-5.07/-3.62	-4.76/-3.64	-4.42/-5.57	-5.65/-4.61	-6.4/-6.95	-5.82/-5.65	-6.78/-10.38	-9.96/-5.74	-5.77/-4.28	-1.70/-46	-0.28/-1.56	1.06/-1.59	-0.82/-2.08	-1.87/-0.53	-4.05/-6.81	-6.99/-9.37	
Θ(75°)	-11.6/-15.43	-14.06/-15.56	-13.52/-7.52	-7.1/-6.67	-3.12/-0.53	-0.06/-0.84	-3.11/-5.52	-5.3/-4.51	-4.99/-4.24	-3.8/-7.3	-8.74/-9.55	-12.19/-9.51	-7.54/-7.65	-7.86/-11.04	-7.39/-8.45	-8.84/-5.18	-5.26/-4.33	-1.49/-0.51	-0.19/-0.31	0.18/-1.61	-1.12/-5.2	-5.28/-2.73	-4.69/-6.9	-6.17/-4.8
Θ(82.5°)	-11.51/-14.94	-12.46/-15.26	-13.03/-8.03	-7.36/-8.42	-3.45/-0.88	-1.8/-2.4	-5.85/-7.79	-4.32/-4.89	-4.21/-4.46	-4.79/-7.22	-8.93/-9.05	-10.08/-12.29	-11.37/-9.12	-7.74/-9.19	-9.57/-10.62	-9.2/-5.59	-5.69/-5.38	-0.95/-2.14	-2.43/-4.58	-1.71/-0.72	-1.53/-5.85	-6.82/-3.88	-4.6/-3.69	-6.83/-8.28
Θ(90°)	-9.54/-14.67	-12.52/-15.31	-15.23/-12.24	-10.93/-10.45	-5.02/-2.9	-2.9/-4.72	-7.43/-9.68	-3.55/-4.19	-4.21/-4.53	-4.64/-8.87	-12.64/-10.76	-8.83/-13.73	-13.88/-14.89	-11.31/-9.44	-12.58/-12.44	-9.27/-8.34	-7.07/-6.8	-3.98/-4.46	-4.24/-7.77	-5.49/-4.69	-10.78/-5.04	-6.57/-6.92	-8.42/-6.17	
Θ(97.5°)	-11.38/-13	-14.71/-14.62	-15.1/-12.34	-14.15/-9.5	-6.65/-4.4	-5.84/-7.6	-7.05/-8.66	-5.12/-4.81	-4.92/-5.44	-5.01/-8.26	-12.54/-9.82	-9.24/-11.79	-14.05/-13.35	-11.63/-14.94	-15.28/-12.9	-7.83/-12.66	-10.54/-7.74	-6.2/-9.23	-8.95/-13.83	-10.63/-12.59	-4.02/-10.4	-12.92/-6.71	-5.8/-8.49	-10.42/-8.01
Θ(105°)	-11.47/-14.56	-14.3/-15.03	-15.5/-15.2	-14.35/-10.04	-7.16/-5.12	-6.05/-9.94	-7.79/-8.63	-7.35/-5.01	-5.18/-5.81	-5.69/-7.78	-10.03/-11.29	-11.69/-10.12	-9.59/-13.26	-15.13/-12.91	-13.67/-15.37	-10.54/-8.44	-13.42/-12.62	-10.16/-12.76	-11.76/-10.52	-9.74/-10.82	-5.17/-8.83	-10.46/-7.27	-4.53/-8.52	-11.01/-10.73
Θ(112.5°)	-11.95/-11.14	-16.16/-15.2	-15.31/-16.12	-15.88/-10.51	-6.91/-7.69	-6.28/-5.32	-9.19/-6.31	-5.23/-7	-5.57/-4.58	-7.68/-6.13	-11.09/-12.58	-10.6/-12.68	-11.39/-11.99	-15.38/-11.95	-13.64/-15.42	-12.7/-9.27	-12.98/-10.24	-8.57/-4.33	-6.8/-7.02	-11.44/-6.53	-12.79/-5.42	-10.09/-9.77	-6.01/-10.08	-11.4/-11.37
Θ(120°)	-15.6/-15.81	-15.45/-12.85	-15.91/-15.36	-16/-14.3	-13.23/-11.21	-7.46/-4.8	-4.26/-5.31	-5.02/-5.83	-8.45/-6.51	-13.6/-9.78	-9.08/-14.19	-11.15/-10.12	-13.95/-14.13	-14.94/-15.33	-11.49/-13.89	-12.36/-9.16	-9.86/-9.99	-6.15/-4.78	-6.14/-9.9	-10.06/-4.75	-8.09/-10.15	-11.77/-9.63	-9.19/-11.84	-9.45/-13.26
Θ(127.5°)	-15.3/-15.45	-15.25/-14.66	-13.86/-15.08	-13.33/-12.76	-11.22/-9.13	-6.18/-4.71	-5.06/-6.04	-8.17/-4.75	-8.48/-12.68	-8.41/-12.29	-10.4/-11.8	-15.33/-12.95	-15.47/-13.29	-14.56/-15.62	-11.26/-14.65	-11.97/-12.37	-12.14/-13.39	-5.93/-5.23	-6.79/-12.46	-11.69/-6.5	-12.56/-11.61	-13.29/-15.67	-13.59/-16.73	-12.21/-15.33
Θ(135°)	-13.91/-11.2	-8.46/-15.37	-14.61/-14	-9.72/-10.61	-10.97/-11.36	-8.41/-7.52	-6.06/-6.37	-11.07/-8.11	-6.87/-12.24	-13.85/-9.54	-11.71/-10.91	-12.55/-11.74	-11.07/-12.98	-11.94/-12.05	-12.33/-13.31	-13.94/-14.82	-13.01/-13.06	-10.33/-11.69	-8.25/-4.65	-8.08/-8.36	-10.18/-8.01	-8.72/-8.13	-11.82/-12.55	-10.59/-8.69
Θ(142.5°)	-10.91/-13.07	-11.45/-10.25	-13.42/-9.35	-7.59/-11.87	-10.3/-6.44	-7.41/-9.8	-9.47/-8.26	-8.22/-8.84	-9.11/-7.06	-8.01/-15.03	-10.59/-7.66	-11.5/-13.78	-12.92/-14.62	-13.73/-14.67	-15.26/-15.38	-15.57/-14.94	-14.79/-15.15	-12.8/-10.89	-11.95/-9.61	-9.54/-7.72	-13.27/-8.84	-9.28/-8.65	-10.2/-9.49	-10.21/-8.52
Θ(150°)	-8.88/-9.84	-10.33/-9.39	-13.1/-11.74	-7.58/-9.16	-12.99/-8.41	-5.77/-6.41	-8.65/-13.98	-8.73/-8.73	-12.56/-12.56	-10.62/-15.67	-13.71/-12.83	-14.39/-14.77	-14.8/-15.38	-13.85/-14.36	-15.81/-13.6	-12.17/-13.5	-13.08/-9.82	-9.3/-8.78	-9.71/-8.5	-6.17/-6.8	-6.12/-4.74	-6.69/-9.43		
Θ(157.5°)	-12.21/-13.7	-13.82/-12.29	-13.25/-15.87	-15.39/-16.08	-14.73/-15.29	-15.08/-12.77	-11.56/-10.92	-10.62/-15.23	-13.84/-9.89	-10.33/-9.05	-7.16/-7.63	-11.42/-15.98	-14.2/-15.48	-15.39/-13.74	-13.9/-14.01	-12.75/-11	-10.33/-9.82	-9.59/-9.92	-12.19/-9.61	-9.28/-8.18	-6.73/-8.39	-8.81/-7.57	-8.37/-9.36	
Θ(165°)	-11.17/-11.6	-12.1/-12.42	-12.47/-12.69	-13.34/-13.89	-12.37/-11.39	-9.93/-10.5	-11.98/-13.35	-11.73/-10.12	-9.66/-10.7	-14.19/-15.17	-15.74/-16.11	-15.14/-15.6	-15.96/-14.78	-15.45/-15.49	-13.24/-12.47	-10.96/-12	-13.02/-14.3	-15.46/-14.01	-12.73/-9.86	-7.9/-7.08	-6.26/-5.12	-4.75/-5.75	-7.13/-8.66	-11.05/-12
Θ(172.5°)	-12.03/-13.26	-15.35/-15.59	-15.08/-14.96	-14.8/-14.5	-13.34/-11.97	-10.15/-11.04	-10.46/-10.7	-9.5/-8.92	-8.99/-10.5	-12.51/-14.46	-15.47/-14.57	-15.47/-15.36	-15.88/-13.65	-12.8/-12.17	-12.44/-13.28	-14.19/-13.64	-12.79/-11.78	-10.68/-10.51	-8.79/-6.92	-6.07/-5.55	-5.33/-6.21	-7.1/-7.51	-7.69/-8.45	-7.95/-8.86
Θ(180°)	-7.83/-7.63	-8.27/-9.62	-10.96/-11.86	-12.35/-11.77	-11.95/-11.93	-8.86/-9.92	-9.37/-8.63	-9.95/-11.94	-11.76/-9.89	-9.3/-8.98	-9.04/-9.02	-9.2/-9.44	-8.93/-8.48	-8.51/-8.7	-10.39/-11.33	-12.69/-14.15	-15.02/-15.3	-15.23/-14.28	-11.81/-10.77	-9.7/-9.41	-8.48/-8.15	-8.92/-8.99	-8.96/-8.84	-8.19/-7.88
Freq(Hz)	5.785GPol.	ThetaL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	3.924/05	4.163/97	4.113/88	3.112/48	1.502/35	-1.36/-3.85	-5.59/-9.75	-1.32/-13.18	-10.27/-7.08	-3.85/-17.2	1.742/18	3.092/47	1.740/78	3.593/62	3.384/73	3.032/47	1.740/78	-13.62/-11.69	-4.25/-6.79	-10.58/-11.98	-3.48/-1.42	0.15/1.53	2.59/33	
Θ(7.5°)	4.034/66	4.984/88	4.774/51	3.682/84	2.381/31	-0.25/-2.16	-4.62/-6.8	-8.96/-8.54	-7.86/-5.67	-3.39/-1.34	0.25/1.01	1.832/39	2.783/17	3.383/4	3.072/72	2.21/54	0.89/-0.27	-1.49/-3.27	-5.16/-7.74	-9.2/-7.69	-6.26/-4.09	-2.06/-0.37	0.73/1.37	2.29/3.1
Θ(15°)	2.242/93	2.912/75	2.712/81	2.441/86	1.681/55	0.670/07	-0.82/-2.39	-5.41/-10.1	-10.48/-7.94	-5.72/-3.7	-1.56/-0.28	0.781/31	1.771/49	0.50/15	0.670/89	0.660	-0.57/-1.13	-3.09/-4.22	-5.77/-8.28	-10.92/-11.2	-1.68/-0.44	0.52/-0.18	-0.26/0.9	
Θ(22.5°)	0.270/76	0.201/1	0.820/74	0.421/16	2.012/48	1.610/24	-0.93/-1.85	-2.91/-5.86	-6.96/-7.1	-7.22/-6.56	-4.07/-1.98	0.021/56	2.242/22	2.152/01	1.471/02	-1.54/-1.47	-1.54/-0.97	-8.95/-1.58	-1.74/-2.13	-3.22/-4.39	-5.4/-7.62	-6.95/-3.63	-0.74/-0.68	-1.140/02
Θ(30°)	-0.51/-0.04	-0.94/-0.87	-0.29/-0.64	-0.78/-0.4	0.6/1.41	0.470/0.1	-0.74/-0.8	-2.79/-5.2	-5.98/-5.17	-4.99/-6.08	-4.83/-3.97	-4.56/-5.26	-6.11/-5.09	-4.68/-3.91	-2.38/-2.21	-1.92/-1.84	-0.780/36	-1.02/-1.34	-1.5/-1.65	-1.19/-1.64	-3.33/-4.38	-5.29/-4.07	-2.94/-2.92	-2.69/-1.78
Θ(37.5°)	-1.92/-1.55	-1.18/-0.68	-1.12/-0.97	-1.69/-1.94	-0.01/-0.52	-0.68/-0.68	-0.88/-1.94	-3.21/-2.46	-3.99/-3.07	-2.8/-4.46	-4.78/-4.14	-1.94/-1.35	-0.66/-1.14	-1.45/-2.8	-1.56/-1.51	-1.02/-1.7	-0.73/-0.6	0.29/-0.61	-1.5/-1.09	-1.56/-1.6	-2.65/-3.57	-3.86/-3.84	-4.8/-4.51	-3.28/-3.43
Θ(45°)	-4.98/-2.61	-4.45/-4.82	-3.6/-2.39	-2.81/-2.46	-0.57/-1.06	-3.11/-0.4	1.59/-0.03	-0.69/-0.14	-0.34/-1.06	-2.11/-2.75	-2.77/-3.78	-1.98/-1.52	-1.76/-0.74	-1.86/-4.36	3.08/-4.34	1.08/1.44	1.21/3.3	2.14/1.43	-0.54/-0.08	-0.16/-1.23	-2.86/-1.78	-3.31/-2.51	-2.71/-4.88	-5.26/-6.79
Θ(52.5°)	-4.31/-4.2	-5.62/-5.51	-3.39/-3.4	-2.82/-0.02	0.12/-1.14	-2.89/-0.33	0.22/-0.09	0.720/37	0.41/38	0.480/07	-0.21/-0.38	0.53/-0.84	-1.51/-1.09	-1.83/-0.87	-2.88/-3.92	0.33/-1.18	0.830/74	1.86/1.54	0.820/31	-2.11/-3.4	-0.68/-2.34	-5.58/-1.19	-0.11/-2.84	-7.46/-6.22
Θ(60°)	-3.62/-4.04	-4.36/-3.67	-3.72/-4.36	-2.070.15	0.71/-1.9	-1.380/11	0.360/55	0.73/-0.59	0.581/18	0.15/-0.72	0.390/67	1.9/14	1.060/87	1.16/157	0.12/-1.76	-0.780.25	-0.82/-1.77	0.370/44	1.10.45	-2.23/-2.4	-1.44/-4.64	-4.91/-10.8	-1.68/-5.25	-4.18/-5.11
Θ(67.5°)	-1.380/32	-2.3/-4.48	-2.9/-1.82	0.830/37	1.14/-0.53	-1.28/-1.24	-1.63/-0.64	1/0.32	0.121/51	0.18/-0.94	0.240.49	1.632/07	0.571/11	1.982/71	1.250/03	-0.320.37	0.33/-0.17	0.690/91	1.980/7	-0.770/73	1.47/-0.86	-1.1/-0.06	0.30/58	1.26/-2.97
Θ(75°)	-0.120/26	-0.9/-2.05	-1.42/-0.89	0.69/-0.43	-0.26/-0.28	-1.26/-2.07	-2.95/-1.34	-0.680.17	-1.11/0.7	0.55/-2.15	0.760.16	1.141/79	0.03/-0.42	-0.14/1.66	2.121/15	0.420.38	2.371/67	2.08/1.41	2.640.6	-0.67/1.84	3/1.31	1.54/-0.69	1.41/3	2.09/-1.58
Θ(82.5°)	-0.89/-2.53	-0.04/-1.34	-2.17/-1.67	-1.27/-1.97	-0.42/-1.94	-3.41/-2.87	-3.14/-1.79	-1.67/-0.55	-1.21/-0.39	-0.4/-2.4	0.22/-1.23	-0.160.59	-1.35/-2.93	-1.8/0.5	1.260/76	-1.09/-0.84	2.150/65	0.880.45	2/-0.23	-1.092/16	3.51/65	1.65/-1.96	1.673/22	1.23/-0.28
Θ(90°)	-1.53/-3.31	-1.32/-3.3	-4.27/-2.5	-2.27/-2.83	-2.22/-2.83	-3.33/-4.38	-4.48/-2.23	-1.95/-1.05	-1.48/-1.84	-1/-2.69	-0.48/-2.27	-1.62/-0.9	-0.8/-6.35	-3.21/-1.04	-0.03/-0.32	-1.23/-2.29	-0.33/-0.89	-1.4/-1.99	-1.18/-3.39	-3.080.29	1.080.78	-0.28/-3.99	1.262/05	0.09/-1.11
Θ(97.5°)	-2.08/-4.09	-2.98/-4.93	-7.01/-4.99	-3.69/-6.07	-3.52/-6.18	-4.74/-4.68	-5.62/-3.77	-4.14/-3.38	-2.79/-4.46	-1.49/-3.78	-1.95/-5.09	-2.83/-1.24	-2.7/-7.22	-6.06/-3.71	-2.67/-3.01	-1.75/-4.15	-3.49/-5	-6.07/-3.58	-4.62/-6.37	-6.29/-3.8	-2.84/-1.45	-2.6/-5.62	0.17/-0.08	-0.82/-1.68
Θ(105°)	-3.04/-3.77	-5.37/-6.82	-6.38/-4.87	-5.71/-7.91	-8.66/-6.93	-6.52/-3.98	-7.14/-6.25	-7.61/-4.15	-4.22/-5.94	-3.11/-6.12	-4.69/-7.24	-4.35/-1.7	-4.69/-7.24	-9.01/-10.35	-4.17/-3.38	-3.57/-6.67	-9.82/-5.09	-4.46/-3.76	-6.55/-7.96	-8.62/-5.58	-5.22/-3.19	-3.98/-5.67	-1.43/-1.62	-1.74/-5.1
Θ(112.5°)	-7.56/-																							



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

Θ(105°)	-12.3/-11.65	-13.15/-13.74	-15.52/-12	-14.9/-8.24	-11.28/-8.29	-7.54/-7.96	-8.54/-4.46	-7.83/-3.58	-5.8/-5.39	-6.87/-7.95	-8.35/-3.85	-6.98/-11.28	-8.49/-12.18	-15.22/-14.07	-12.31/-10.61	-8.17/-14.74	-10.15/-14.65	-10.92/-9	-11.93/-7.16	-12.57/-6.72	-5.32/-7.09	-10.49/-7.79	-13.65/-11.12	-13.83/-10.59
Θ(112.5°)	-14.49/-12.97	-12.8/-10.91	-15.43/-13.87	-7.45/-8.15	-12.25/-10.87	-7.8/-5.3	-4.11/-3.08	-4.44/-5.38	-7.44/-6.53	-7.28/-9.35	-7.25/-12.57	-5.95/-9.4	-8.07/-8.06	-11.44/-12.07	-9.73/-14.05	-13.36/-12.62	-10.04/-7.04	-6.72/-3.98	-4.95/-7.04	-14.86/-8.88	-4.65/-6.31	-8.24/-7.09	-11.55/-8.58	-10.11/-10.89
Θ(120°)	-13.74/-14.76	-14.94/-12.54	-14.67/-12.85	-14.91/-10.02	-14.8/-12.44	-2.93/-7.95	-4.51/-5.02	-6.09/-2.01	-8.23/-9.35	-9.71/-11.95	-7.14/-8.94	-9.29/-7.5	-7.41/-11.57	-11.63/-11.6	-9.29/-15.16	-13.73/-12.9	-7.56/-10.05	-6.94/-5.64	-5.68/-8.07	-7.1/-8.21	-10.55/-9.92	-7.21/-7.92	-13.11/-11.14	
Θ(127.5°)	-12.25/-13.36	-13.65/-12.54	-13.74/-14.68	-13.69/-13.53	-12.24/-9.94	-6.42/-3.04	-3.83/-5.91	-6.53/-9.36	-9.82/-10.62	-10.75/-10.53	-8.02/-7.41	-8.33/-11.35	-11.15/-13.38	-14.81/-13.27	-13.75/-13.54	-12.23/-12.37	-10.7/-10.35	-5.88/-7.9	-6.45/-9.71	-9.19/-6.09	-10.02/-6.35	-7.13/-6.98	-11.36/-9.84	-6.15/-10.3
Θ(135°)	-14.69/-9.8	-14.53/-14.81	-13.8/-13.63	-10.31/-6.32	-6.13/-5.04	-3.69/-5.26	-5.82/-6.43	-5.73/-6.88	-8.7/-8.6	-10.53/-7.4	-11.08/-8.98	-10.8/-8.48	-12.17/-9.13	-13.13/-9.85	-7.32/-10.29	-14.61/-10.89	-7.98/-11.34	-13.09/-8.35	-4.88/-6.49	-8.26/-8.91	-7.51/-11.02	-7.63/-9.04	-7.62/-9.8	-12.99/-11.94
Θ(142.5°)	-7.75/-14.1	-10.48/-10.95	-12.77/-7.72	-9.54/-8.05	-11.98/-6.84	-4.66/-8.76	-8.16/-6.07	-9.47/-10.57	-8.21/-7.37	-7.75/-12.21	-9.4/-8.51	-11.57/-8.48	-14.16/-14.88	-13.11/-14.3	-12.87/-12.6	-16.08/-15.24	-10.86/-12.89	-9.05/-11.46	-9.92/-9.52	-10.42/-12.52	-7.7/-7.09	-7.19/-88	-8.58/-9.13	-14.95/-8.72
Θ(150°)	-8.63/-14.46	-8.61/-8.27	-10.26/-11.49	-13.15/-15.31	-9.19/-8.97	-9.52/-11.18	-7.82/-5.85	-6.28/-7.49	-9.63/-10.04	-11.18/-9.85	-7.83/-6.94	-9.56/-9.26	-12.61/-14.87	-10.79/-10.85	-13.23/-14.42	-15.66/-15.4	-10.44/-7.67	-9.12/-7.85	-4.79/-5.91	-7.97/-9.34	-7.23/-9.01	-5.25/-7.98	-12.46/-6.91	-7.62/-10.59
Θ(157.5°)	-15.12/-14.96	-11.53/-13.04	-13.49/-10.03	-8.83/-10.6	-12.09/-9.58	-8.05/-8.32	-7.98/-6.67	-6.21/-9.38	-10.78/-7.7	-7.76/-11.39	-13.03/-10.82	-13.13/-15.06	-14.08/-11.22	-12.45/-14.71	-13.81/-9.1	-9.82/-11.39	-8.99/-10.2	-11.56/-10.06	-9.99/-10.79	-10.02/-8.89	-8.28/-9.58	-7.99/-8.25	-10.99/-11.51	-11.28/-12.27
Θ(165°)	-10.34/-10.53	-12.57/-14.46	-14.87/-14.82	-14.95/-14.69	-13.09/-11	-8.44/-6.75	-7.23/-8.28	-11.21/-11.49	-8.96/-7.56	-7.6/-9.38	-13.81/-15.06	-14.05/-12.42	-13.93/-10.51	-9.55/-10.91	-11.46/-11.33	-11.54/-10.65	-12/-12.48	-10.99/-10.15	-9.29/-9.25	-10.35/-9.39	-9.18/-10.07	-10.38/-9.84	-10.08/-10.38	
Θ(172.5°)	-13.92/-14.22	-15.04/-15.48	-15.71/-15.13	-15.48/-15.34	-15.47/-15.41	-14.68/-14.35	-11.97/-12.15	-10.6/-9.8	-9.5/-10.1	-12.98/-14.94	-15.25/-14.56	-15.4/-14.8	-15.04/-14.96	-15.22/-15.53	-15.21/-15.84	-15.17/-14.21	-13.83/-14.07	-13.52/-11.67	-11.61/-12.61	-12.62/-11.18	-10.23/-10.51	-9.75/-10.46	-11.46/-12.48	-12.33/-12.37
Θ(180°)	-13.09/-12.77	-13.51/-13.9	-14.12/-14.66	-14.69/-13.12	-12.87/-11.21	-13.11/-12.27	-9.9/-8.27	-7.58/-9.7	-13.22/-12.73	-12.22/-10.6	-12.05/-14.15	-14.03/-14.74	-12.04/-10.92	-12.1/-14.74	-14.92/-15.35	-15.66/-15.16	-15.07/-15.52	-15.17/-15.08	-15.05/-12.8	-12.61/-12.03	-12.44/-12.24	-11.94/-12.97	-13.11/-12.57	-12.66/-13.55
Freq(Hz)	6.475GPol.	ThetaL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	2.922/95	2.742/43	2.341/89	1.420/7	-0.07/-1.23	-2.8/-5.4	-7.44/-10.05	-12.05/-10.74	-7.68/-5.13	-2.96/-1.56	-0.30/-9.1	1.782/15	2.372/45	2.652/52	2.231/77	0.86/-0.29	-1.96/-3.5	-6.29/-9.67	-12.36/-12.78	-9.92/-6.42	-3.12/-1.32	-0.040/76	1.672/41	2.732/89
Θ(7.5°)	1.471/48	0.820/16	-0.2/-0.14	-0.07/-0.57	-1.44/-2.78	-4.9/-6.5	-9.03/-10.47	-12.93/-13.12	-12.74/-9.46	-5.99/-3.4	-1.480/0.2	0.711/22	1.762/1	1.971/67	1.470/51	-0.51/-0.26	-4/-4.91	-6.89/-8.13	-10.13/-10.92	-12.2/-15.1	-13.51/-9.46	-5.89/-3.06	-0.860/27	1/1.3
Θ(15°)	-0.130/33	0.830/7	0.520/94	1.411/0.2	0.46/-1.2	-2.53/-3.62	-4.38/-5.01	-5.96/-6.33	-7.27/-8.28	-8.5/-7.49	-6.37/-5.87	-4.53/-2.63	-0.760/28	0.911/71	1.620/4	-1.22/-3.25	-4.76/-5.98	-5.28/-4.37	-4/-4.08	-4.24/-4.63	-6.2/-7.46	-8.57/-6.19	-3.32/-1.79	-0.67/-0.31
Θ(22.5°)	-2.11/-2.76	-1.6/-0.9	-1.09/-0.67	-0.48/-1.35	-1.12/-1.97	-2.66/-3.47	-4.51/-4.22	-3.75/-2.95	-3.48/-4.47	-7.62/-6.35	-5.51/-6.2	-10.58/-5.26	-3.68/-2.87	-1.38/-0.41	0.0/0.9	-0.86/-2.04	-3.92/-6.87	-5.94/-5.84	-6.17/-6.35	-6.98/-9.34	-6.5/-5.12	-4.14/-2.96	-1.92/-1.6	
Θ(30°)	-3.56/-4.45	-3.29/-2.44	-2.48/-1.44	-2.19/-2.36	-2.68/-2.9	-3.01/-3.32	-3.61/-2.57	-2.43/-3.51	-4.45/-2.59	-4.59/-6.27	-5.71/-11.63	-6.26/-6.02	-4.31/-4.62	-3.03/-1.18	-1.08/-1.28	-3.36/-2.4	-0.51/-2.78	-4.34/-2.38	-0.650/89	-8.55/-2.2	-4.88/-3.34	-6.31/-7.5	-5.35/-3.03	-2.89/-3.35
Θ(37.5°)	-3.59/-3.82	-3.12/-2.41	-3.59/-3.69	-4.12/-2.43	-2.77/-1.3	-1.6/-2.26	-3.56/-4.94	-4.5/-1.14	-1.83/-1.17	-0.32/-0.94	-2.59/-4.63	-4.44/-1.93	-1.1/-0.85	-0.31/0.08	0.23/-1.49	-5.43/-4.88	-2.34/-1.92	-2.29/-0.53	0.480/14	0.74/-0.06	-0.93/-4.78	-7.15/-6.03	-3.36/-2.05	-0.92/-2.17
Θ(45°)	-4.17/-4.15	-6.39/-3.22	-4.36/-6.09	-4.35/-4.73	-6.36/-2.92	-0.86/-3.26	-0.550/92	-1.35/-0.33	0.51/-0.45	-1.160/33	-1.36/-2.57	-4.77/-2.37	0.21/45	2.182/14	1.11/-0.19	-1.76/-0.63	-0.56/-0.19	-0.12/-0.98	1.751/72	2.422/15	0.41/-1.52	-2.93/-4.89	-4.27/-3.82	-1.59/-3.62
Θ(52.5°)	-1.83/-3.35	-4.53/-2.73	-2/-2.76	-2.85/-2.5	-2.510/27	1.17/-0.32	-0.640/92	0.520/0.7	0.04/-0.25	-0.160/8	-1.561/-1.06	-3.77/-1.93	-1.191/99	2.621/23	0.5/-1.79	-0.352/0.3	2.251/55	-0.35/-1.52	1.012/8	3.231/29	-0.840/69	-0.117/-6.51	-2.15/-0.62	-1.28/-1.42
Θ(60°)	-0.46/-1.23	-1.95/-5.05	-2.33/-0.86	-1.84/-0.62	-0.271/1.8	1.170/6	0.92/1	0.931/35	0.24/-0.63	1.080/4	-0.3/-0.75	-1.95/-0.08	-0.31/4	3.334/0.3	3.170/87	-0.53/-0.25	-0.35/-0.23	0.04/-0.08	-0.530/49	1.671/2.04	-1.230/39	-1.85/-3.65	-2/-1.47	-2.871/1.18
Θ(67.5°)	3.081/99	-2.28/-1.55	-4.51/-1.4	-0.332/89	1.1730/9	1.360/18	0.14/2	1.990/87	-0.17/-0.51	0.92/-0.58	-1.8/-1.28	-0.3/-0.46	0.592/51	3.964/8.8	3.292/17	0.72/-0.66	0.991/77	0.541/56	0.321/0.1	0.37/-2.2	0.730/61	-0.570/7	-1.04/-2.27	-0.251/64
Θ(75°)	3.763/2	-1.790/5	-2.27/-1.52	0.493/55	2.351/27	0.22/-0.36	-0.580/91	2.210/0.2	-0.12/-5.4	-0.4/-1.08	-1.22/-1.07	-0.55/-1.3	-0.330/33	2.754/0.66	1.91/56	-0.20/-0.62	1.933/39	2.0630/99	1.911/72	-1.21/-0.65	1.932/41	0.750/92	0.1100/5	2.131/39
Θ(82.5°)	2.671/93	-2.611/23	0.16/-2.58	-0.791/93	2.6/-1.54	-0.32/-1.51	-1.77/-0.72	1.370/28	-1.34/-3.94	-2.18/-1.56	-1.86/-2.31	-1.25/-3.37	-1.020/16	1.342/27	-0.12/-0.41	-1.660/89	1.2330/1	1.39/3	0.68/-0.51	-1.96/-1.14	1.873/26	1.270/17	-0.40/54	2.640/88
Θ(90°)	0.02/-0.07	-1.980/-0.39	0.76/-2.58	-2.710/12	1.973/-31	-2.17/-2.63	-2.63/-1.8	0.08/-1.4	-2.11/-4.24	-1.98/-3	-1.97/-23.1	-3.08/-5.31	-3.40/-5.99	-0.580/1	-1.08/-2.22	-4.21/-2.53	-2.68/-6.08	-2.27/-0.46	-3.44/-2.6	-3.59/-2.93	-0.472/-1	-0.12/-2.17	-0.56/-0.72	2.130/62
Θ(97.5°)	-2.08/-2.63	-3/-1.94	0.38/-1.81	-3.62/-0.87	0.47/-2.84	-3.72/-1.83	-3.93/-0.83	-0.63/-2.39	-1.61/-5.47	-2.01/-4.36	-2.54/-3.18	-6.6/-8.7	-4.47/-2.29	-2.21/-0.55	-6.54/-6.2	-5.07/-4.97	-7.22/-7.18	-5.46/-6.2	-8.12/-5.4	-7.43/-6.93	-4.72/-7.77	-11.45/-3.52	-2.46/-1.49	1.60/1.2
Θ(105°)	-2.74/-5.2	-2.52/-2.29	-2.66/-2.53	-3.65/-1.69	-2.15/-2.69	-6.5/-2.55	-3.04/-2.93	-1.94/-2.56	-2.06/-6.52	-4.36/-4.83	-3.84/-4.78	-9.65/-8.1	-4.79/-3.34	-6.15/-1.6	-5.46/-6.8	-4.47/-5.31	-5.61/-4.33	-4.4/-5.07	-6.64/-6	-7.86/-6.72	-11.45/-1.47	-4.19/-9.34	-3.64/-2.17	-0.18/-0.28
Θ(112.5°)	-7.41/-8.32	-3.79/-2.24	-2.16/-7.88	-6.73/-3.59	-3.85/-7.78	-10/-5.16	-3.43/-3.35	-2.49/-4.35	-6.91/-7.03	-11.21/-5.18	-5.97/-8.46	-14.32/-11.82	-6.64/-7.46	-8.56/-5.45	-14.37/-5.34	-6.38/-8.44	-7.9/-7.88	-7.69/-8.36	-3.76/-7.76	-7.65/-12.47	-7.23/-3.44	-9.95/-9.21	-4.35/-3.05	-1.49/-3.78
Θ(120°)	-12.67/-9.34	-5.79/-5.38	-4.9/-8.21	-5.12/-6.19	-6.13/-6.89	-11.77/-9.46	-7.8/-5.29	-9.87/-7.32	-12.56/-6.71	-9.88/-7.07	-8.46/-10.93	-13.68/-13.03	-9.06/-6.89	-5.85/-3.84	-15.19/-5.49	-11.48/-8.18	-10.29/-7.25	-9.98/-10.45	-7.88/-11.89	-9.08/-13.26	-6.89/-4.51	-11.06/-5.66	-4.64/-5.07	-4.82/-6.61
Θ(127.5°)	-12.86/-9.54	-7.44/-8.41	-8.76/-7.56	-6.25/-6.72	-8.4/-7.12	-10.71/-5.01	-5.46/-6.51	-8.15/-6.81	-12.36/-7.62	-12.52/-11.52	-15.73/-14.08	-15.55/-12.96	-13.41/-11.31	-4.59/-3.62	-11.44/-7.38	-9.22/-7.38	-7.61/-8.02	-11.6/-5.93	-8.33/-13.93	-8.9/-7.76	-8.35/-6.5	-1.23/-6.42	-8.68/-5.49	
Θ(135°)	-13.34/-10.52	-10.25/-9.79	-7.53/-9.68	-10.58/-6.46	-9.74/-13.99	-14.68/-8.98	-7.82/-9.16	-10.13/-10.27	-10.57/-9.3	-13.25/-14.38	-15.01/-13.57	-14.11/-13.22	-8.54/-5.55	-8.51/-12.31	-13.26/-10.35	-15.7/-10.9	-10.81/-13.48	-11.02/-5.94	-9.92/-11.3	-7.32/-11.95	-8.71/-10.74	-9.15/-8.24	-5.35/-5.37	-11.55/-14
Θ(142.5°)	-11.87/-12.41	-15.01/-12.97	-14.96/-8.3	-6.83/-8.48	-9.36/-13.74	-12.72/-8.66	-8.68/-12.42	-13.25/-10.9	-10.26/-12.65	-10.99/-13.54	-14.79/-12.1	-11.18/-11.6	-11.26/-8.67	-8.81/-11.14	-16.07/-14.67	-9.35/-11.25	-13.19/-11.21	-12.48/-12.11	-11.69/-12.59	-8.21/-9.17	-12.95/-12.81	-10.83/-8.57	-8.29/-6.25	-6.29/-9.83
Θ(149°)	-14.98/-15.19	-12.99/-12.86	-13.46/-12.21	-9.99/-10.53	-11.26/-8.21	-10.48/-12.62	-13.77/-15.42	-14.95/-12.1	-11.14/-11.02	-11.62/-10.88	-11.86/-14.85	-13.48/-10.01	-13.12/-15.35	-11.51/-11.01	-15.93/-15.93	-14.65/-10.65	-9.75/-10.33	-14.09/-13.71	-14.82/-14.4	-14.75/-10.67	-10.29/-10.62	-11.88/-10.51	-8.25/-9.18	-14.21/-15.05
Θ(157.5°)	-10.55/-9.42	-11.32/-13.22	-14.42/-14.25	-14.37/-14.95	-13.83/-11.02	-10.18/-10.3	-11.36/-11.27	-10.08/-9.82	-12.56/-14.46	-14.79/-13.69	-14.13/-12.94	-11.5/-11.11	-10.10/-79	-9.62/-7.11										



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

Θ(157.5°)	-12.15/-10.42	-15.64/-14.35	-14.81/-11.19	-10.64/-11.77	-12.3/-12.93	-10.56/-10.28	-8.4/-7.57	-6.92/-7.76	-6.44/-6.12	-7.54/-8.58	-9.12/-10.02	-15.3/-15.82	-15.08/-14	-10.71/-13.29	-15.36/-15.28	-14.79/-15.05	-14.6/-12.2	-10.94/-12.91	-14.55/-13.9	-12.85/-10.48	-10.29/-10.88	-14.43/-15.17	-13.96/-14.48	-15.85/-16.24
Θ(165°)	-15.27/-15.48	-15.2/-14.81	-14.95/-14.67	-14.85/-15.15	-14.11/-15.61	-14.35/-12.09	-12.9/-9.74	-8.99/-7.78	-8.27/-9.87	-10.23/-8.96	-8.88/-10.65	-14.03/-15.77	-13.12/-11.9	-12.32/-11.84	-13.15/-14.34	-15.36/-14.02	-11.8/-11.47	-14.17/-15.68	-15.62/-15.69	-15.47/-15.14	-15.47/-14.94	-13.5/-12.03	-12.11/-13.31	-16.22/-15.04
Θ(172.5°)	-9.79/-11.05	-11.43/-11.34	-11.7/-11.46	-11.57/-12.06	-11.94/-11.7	-10.7/-11.64	-12.42/-12.28	-14.04/-13.84	-13.72/-14.27	-15.28/-14.82	-14.8/-15.86	-15.54/-14.9	-15.55/-15.11	-15.86/-14.35	-13.01/-15.59	-14.11/-13.62	-14.72/-14.23	-14.8/-14.59	-14.13/-14.73	-13.34/-12.16	-11.63/-10.89	-10.25/-10.63	-11.09/-10.14	-9.87/-10.02
Θ(180°)	-15.5/-14.09	-14.82/-14.83	-15.34/-15.81	-16/-15.13	-14.86/-14.19	-14.05/-14.62	-13.46/-13.44	-11.82/-13.62	-13.27/-13.1	-13.57/-13.54	-13.74/-13.97	-12.37/-11.39	-10.18/-10.24	-9.8/-10.1	-12.08/-12.49	-14.1/-13.78	-15.14/-14.79	-14.96/-15.64	-14.05/-13.72	-13.79/-12.86	-12.72/-13.57	-15.34/-14.55	-14.75/-15.28	-15.22/-15.73
Freq(Hz)	6.995GPol.	Theta/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	1.25/1.4	1.42/1.27	0.70.37	-0.35/-1.27	-2.21/-3.83	-5.35/-7.85	-9.56/-12.7	-12.51/-11.22	-7.59/-5.69	-4.01/-2.55	-1.15/-0.19	0.13/0.6	0.82/1.25	1.27/0.45	-0.04/-0.19	-1.05/-2.38	-3.68/-5.87	-7.83/-9.09	-10.38/-8.88	-6.73/-5	-3.2/-2.06	-1.37/-0.49	-0.02/0.15	0.6/1.13
Θ(7.5°)	-0.82/-0.38	0.39/0.77	0.39/-0.19	-0.67/-1.62	-2.26/-3.81	-5.58/-6.77	-9.16/-10.71	-11.14/-9.82	-7.82/-5.96	-3.92/-3.04	-2/-1.83	-0.82/-0.22	0.09/-0.15	-0.15/-0.05	-0.56/-0.85	-1.38/-2.22	-2.83/-4.29	-6.71/-9.05	-10.99/-9.15	-8.4/-7.37	-5.45/-3.92	-2.55/-1.98	-1.86/-1.56	-1.42/-1.54
Θ(15°)	-0.73/-0.69	-0.64/-0.52	0.05/-0.11	-0.95/-2.13	-3.59/-3.52	-5.48/-6.06	-7.87/-8.48	-9.09/-8.73	-7.44/-7.03	-6.18/-6.77	-6.83/-6.77	-6.16/-4.65	-4.1/-3.96	-3.77/-3.29	-2.05/-1.74	-1.35/-2.09	-2.69/-3.85	-4.98/-5.76	-4.94/-4.8	-6.1/-7.11	-6.87/-7.68	-6.38/-4.67	-2.83/-1.27	-0.31/-0.41
Θ(22.5°)	-4.39/-2.43	-1.81/-1.27	-0.68/-0.91	-2.68/-3.88	-4.16/-5.11	-6.03/-6	-5.34/-6.42	-6.87/-7.34	-7.98/-10.07	-7.89/-9.41	-10.92/-8.44	-7.95/-7.9	-6.29/-4.89	-3.79/-2.82	-2.55/-2.68	-4.07/-5.36	-4.6/-4.38	-5.36/-5.15	-2.98/-3.18	-4.52/-5.75	-6.44/-7.31	-5.14/-4.62	-5.37/-5.27	-3.56/-4.03
Θ(30°)	-4.6/-4.13	-4.89/-3.03	-1.36/-2.57	-3.87/-3.48	-3.06/-2.49	-2.37/-3.14	-2.95/-2.79	-4.13/-2.91	-2.82/-3.81	-3.54/-3.15	-4.84/-5.61	-7.17/-10.66	-9.81/-7.34	-4.34/-4.65	-4.8/-4.62	-2.88/-4.72	-3.45/-2.85	-2.51/-1.73	-1.78/-2.12	-3.83/-4.54	-7.1/-10.36	-8.21/-4.26	-4.45/-9.85	-8.72/-5.99
Θ(37.5°)	-5.56/-4.06	-3.65/-4.95	-3.52/-4.21	-6.79/-5.72	-3.02/-1.64	-1.79/-2.01	-3.36/-1.89	-0.99/-1.2	-2.68/-1	-1.29/-1.98	-3.06/-5.21	-4.2/-4.16	-3.66/-3.58	-1.810.05	-0.85/-3.56	-3.41/-1.34	0.53/-0.73	-0.97/-0.87	-1.11/1.87	1.45/0.03	-4.81/-3.81	-3.33/-4.45	-4.8/-1.89	-1.71/-4.41
Θ(45°)	-6.19/-5.77	-4.22/-4.51	-4.67/-4.29	-4.22/-4.22	-1.45/-1.26	-2.27/-0.53	-2.07/-1.36	0.16/0.63	-0.03/-0.48	-0.54/-1.86	-2.4/-3.79	-2.72/-3.07	-0.94/0.02	1.39/2.33	0.55/-0.19	-1.27/-1.58	-0.15/-0.64	0.23/0.68	1.63/1.68	0.69/1.4	-0.31/-0.97	-2.99/-2.79	-5.39/-3.56	-1.92/-4.11
Θ(52.5°)	-0.87/-2.94	-3.34/-1.73	-2.17/-1.11	-1.66/-1.29	-0.41/0.87	-0.73/-1.21	-1.50.21	1.4/1.99	1.09/-0.17	-0.64/0.05	-0.87/-1.62	-3.42/-4.67	-0.87/1.58	1.87/2.63	0.95/0.05	-0.82/-1.22	-0.82/1.18	0.67/-0.37	2.24/0.81	1.34/0.52	-0.14/-0.88	-0.06/0.32	-3.45/-0.56	0.69/0.75
Θ(60°)	1.36/-1.05	-0.09/-0.52	-2.19/1.04	1.07/0.83	1.55/0.11	1.9/1.69	0.71/1.36	1.23/0.35	1.25/0.83	-0.42/3.05	0.23/-0.13	-1.12/-3.11	-1.48/1.81	2.62/3.61	2.65/-1	-1.85/-1.71	-2.21/-0.77	1.29/-1.87	1.66/-1.1	1.44/-0.23	-1.21/-4.74	-1.96/0.39	-1.25/-0.16	0.43/1.94
Θ(67.5°)	3.21/28	1.58/0.08	-0.49/1.53	2.73/2.42	3.02/1.18	2.81/-0.32	-0.26/1.3	1.28/2.75	0.53/1.87	0.23/3.6	-1.89/-1.23	-1.53/-1.38	-0.86/1.68	4.01/4.5	3.52/-0.88	-1.15/-3.17	-1.31/-1.48	2.61/-0.53	2.11/-0.03	1.79/1.7	1.53/-4.19	-2.74/1.57	1.65/0.06	0.77/4.28
Θ(75°)	2.27/1.42	1.48/1.26	0.28/2.9	3.04/2.28	2.03/1.53	1.98/0.57	0/-0.44	0.21/1.69	1.14/1.2	-1.81/2.01	-2.95/-2.05	-1.78/-1.25	-2.12/0.24	3.42/4.5	4.07/-1.39	-0.97/-3.11	-0.19/1.65	3.21/2.29	3.12/1.84	1.07/2.03	3.51/-0.45	-0.65/2.85	3.59/0.32	2.82/4.35
Θ(82.5°)	0.15/0.2	0.81/2.43	-0.13/2.32	1.94/2.59	1.73/-1.83	0.55/0.47	0.03/0.53	-0.98/1.25	0.49/-0.02	-2.9/0.64	-2.35/-3.19	-2.41/-1.44	-3.51/-1.09	2.76/3.31	2.33/-3.85	-2.53/-5.09	0.63/2.12	2.96/1.66	3.95/0.8	-1.13/2.49	3.89/1.15	-0.07/2.39	3.57/-0.83	3.37/3.54
Θ(90°)	-1.2/-1.21	-1.41/2.24	-1.57/0.28	-0.26/1.77	0.46/-6.41	-1/-0.27	-0.63/0.09	-1.29/-0.3	-0.14/-1.13	-4.08/-0.74	-3.08/-2.83	-3.81/-2.32	-4.27/-2.21	0.65/1.81	0.65/-6.6	-6.65/-8.22	-2.87/0.08	-1.09/-0.27	1.64/-2.23	-7.13/-1.06	2.07/-0.53	-1.07/0.58	2.45/-1.01	2.14/1.15
Θ(97.5°)	-1.65/-2.18	-3.99/0.78	-1.29/-2.14	-2.72/-0.89	-0.36/-8.37	-1.66/-1.72	-2.15/-0.84	-3.5/-2.16	-1.49/-2.96	-2.4/-1.73	-3.16/-2.59	-5.47/-6.26	-7.84/-3.75	-1.46/-1.06	-0.31/-5.68	-10.6/-9.5	-6.13/-6.36	-6.51/-3.19	-6.25/-5.15	-11.44/-4.43	-0.26/-4.13	-2.08/-1.12	1.34/-1.51	1.26/-1.37
Θ(105°)	-2.89/-3.52	-3.65/-2.21	-0.96/-1.79	-4.69/-3.73	-2.37/-5.46	-2.4/-6.26	-6.28/-6.56	-3.07/-3.86	-1.76/-3.31	-4.44/-3.54	-3.64/-4.33	-7.78/-10.48	-8.36/-7.18	-4.8/-1.99	-3.94/-4.93	-11.61/-11.31	-7.87/-8	-4.07/-4.43	-7.97/-5.59	-9.61/-6.46	-0.72/-5.97	-5.06/-3.17	-0/-4.43	0.57/-0.78
Θ(112.5°)	-6.71/-7.39	-3.42/-3.36	-4.5/-3.84	-3.31/-5.64	-4.36/-7.4	-3.68/-5.33	-4.62/-4.67	-4.46/-5.46	-2.07/-3.59	-5.04/-6.59	-5.85/-7.18	-11.12/-11.3	-6.85/-7.44	-6.58/-5.92	-7.42/-9.85	-10.38/-10.45	-12.39/-7.7	-5.61/-5.08	-4.92/-6	-8.03/-5.75	-4.9/-5.69	-5.69/-5.33	-4/-7.78	-1.2/-2.07
Θ(120°)	-10.3/-8.55	-7.5/-3.46	-4.75/-5.38	-5.25/-5.41	-6.48/-9.42	-9.46/-6.19	-5.59/-9.34	-6.24/-5.76	-3.56/-6.45	-6.13/-8.99	-11.21/-9.89	-12.93/-10.93	-7.84/-9.83	-8.26/-8.22	-8.93/-7.08	-14.02/-7.48	-12.56/-10.13	-10.87/-8.73	-13.66/-7.6	-10.22/-7.23	-14.15/-6.7	-4.99/-7.93	-2.77/-6.44	-4.04/-6.84
Θ(127.5°)	-6.29/-7.59	-4.7/-3.58	-4.64/-5.12	-6.18/-7.69	-6.62/-11.22	-9.26/-8.8	-8.22/-9.71	-8.95/-9.4	-7.7/-9.5	-10.26/-9.13	-11.33/-13.55	-13.19/-13.42	-15.16/-13.02	-9.79/-5.9	-10.99/-9.5	-7.97/-6.9	-11.66/-6.19	-13.22/-7.92	-10.53/-6.29	-7.81/-11.53	-14.95/-6.86	-9.44/-10.06	-4.76/-4.43	-5.17/-5.9
Θ(135°)	-9.91/-10	-8.2/-7.44	-8.92/-10.05	-11.24/-15.42	-14.59/-10.46	-10/-9.34	-9.59/-12.04	-15.48/-14.31	-12.3/-9.51	-10.63/-7.49	-11.21/-14.29	-13.72/-14.52	-12.74/-11.56	-15.13/-10.52	-15.19/-14.95	-12.63/-11.82	-10.77/-13.05	-11.98/-15.55	-14.44/-8.95	-8.24/-12.22	-16.34/-8.38	-11.27/-10.06	-8.92/-6.11	-7.49/-11.84
Θ(142.5°)	-6.97/-11.55	-8.61/-6.01	-7.32/-13.61	-11.81/-13.36	-13.02/-12.1	-10.45/-10.87	-13.34/-15.14	-15.58/-12.3	-9.54/-11.49	-14.89/-9.21	-13.15/-15.5	-12.91/-13.97	-11.66/-14.27	-13.29/-10.81	-9.31/-14.33	-12.54/-13.07	-14.59/-10.5	-11.87/-11.27	-8.85/-10.37	-11.15/-13.7	-9.99/-15.6	-11.86/-13.07	-10.44/-6.54	-6.92/-8.35
Θ(150°)	-11.13/-13.62	-15.04/-14.13	-15.47/-13.21	-13.37/-15.42	-12.13/-11.17	-13.66/-13.73	-13.86/-12.4	-13.22/-14.5	-14.55/-15.88	-11.17/-9.43	-9.83/-12.14	-15.24/-15.4	-13.25/-13.13	-13.16/-12.06	-10.9/-15.64	-15.29/-12.38	-10.9/-13.8	-15.62/-15.25	-13.63/-10.76	-11.27/-15.37	-14.15/-13.28	-14.38/-11.65	-8.67/-8.67	-10.99/-12.19
Θ(157.5°)	-9.03/-11.64	-13.8/-15.3	-13.62/-13.45	-12.82/-15.65	-15.54/-15.53	-15.29/-15.26	-15.68/-15.01	-14.66/-13.22	-13.5/-15.65	-13.76/-11.94	-11.1/-11.14	-11.87/-10.66	-11.41/-14.49	-13.84/-11.17	-8.94/-10.34	-13.64/-14.96	-14.84/-14.35	-13.87/-15.36	-15.44/-15.65	-12.48/-12.26	-15.17/-15.5	-14.66/-13.96	-13.15/-11.49	-9.49/-9.13
Θ(165°)	-12.64/-12.56	-12.67/-12.18	-12.62/-13.34	-15.81/-15.4	-14.76/-14.46	-14.62/-14.66	-14.97/-15.44	-14.31/-13.18	-11.86/-12.98	-15.14/-15	-15.25/-15.48	-14.43/-15.37	-16.02/-15.68	-15.03/-14.96	-12.03/-10.79	-11.81/-11.43	-13.71/-14.41	-13.64/-11.17	-9.48/-8.88	-9.24/-11	-14.32/-14.45	-15.34/-15.29	-14.12/-14.69	-13.87/-12.89
Θ(172.5°)	-13.36/-13.92	-14.42/-15.06	-15.19/-15.37	-14.3/-13.85	-13.05/-12.64	-11.5/-11.65	-11.84/-12.79	-12.58/-15.14	-15.36/-14.72	-13.45/-11.85	-10.92/-11.53	-13.32/-13.75	-14.41/-14.22	-12.74/-13.03	-11.95/-13.56	-14.08/-13.4	-14.44/-13.92	-14.51/-13.93	-12.66/-10.87	-10.52/-11.17	-11.15/-11.45	-10.61/-10.29	-10.31/-10.95	-12.21/-13.38
Θ(180°)	-16.18/-14.78	-15.08/-15.56	-15.01/-14.98	-13.98/-13.84	-14.8/-14.61	-15.19/-16.08	-14.87/-13.29	-14.49/-13.93	-11.97/-11.71	-12.04/-12.72	-12.87/-11.65	-11.47/-11.71	-12.34/-13.29	-13.79/-13.48	-13.54/-13.04	-11.39/-12.01	-11.86/-11.28	-11.06/-11.72	-10.62/-11.16	-12.4/-13.81	-12.92/-12.59	-12.55/-13.64	-13.62/-14.06	-14.61/-15.45



Sporton International Inc.



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

Θ(22°5′)	-4.74/-5.84	-8.27/-9.58	-7.67/-4.87	-3.43/-2.48	-1.54/-0.21	0.82/1.64	2.01/1.9	1.47/1.44	1.98/1.63	1.09/0.79	-0.19/-1.5	-2.9/-4.95	-7/-8.45	-13.92/-17.5	-10.09/-4.74	-2.92/-2.27	-1.85/-1.23	0.19/1.99	2.84/2.47	2.28/3.59	4.34/3.79	2.44/1.18	0.62/-0.58	-2.62/-3.76	
Θ(30°)	-5.43/-5.75	-7.39/-9.57	-7.58/-5.91	-4.03/-2.08	0.01/1.15	1.59/1.98	1.61/2.17	2.22/-4.2	1.17/1.16	0.85/-0.01	-0.66/-1.14	-2.57/-4.38	-6.02/-8.6	-12.51/-19.14	-11.26/-8.69	-5.69/-3.18	-1.85/-1.26	-0.87/-0.16	2.13/48	3.32/3.31	4.17/3.99	2.01/1.26	0.11/-0.7	-2.67/-5.41	
Θ(37.5°)	-7.43/-7.32	-7.79/-9.09	-9.72/-7.03	-3.29/-3.02	-2.87/-1.23	0.49/1.73	1.39/1.41	1.68/0.47	0.67/0.2	0.01/-0.82	-1.07/-1.74	-4.43/-4.28	-5.66/-15.02	-15.19/-12.93	-12.75/-7.93	-6.28/-4.56	-1.9/-0.59	0.1/-0.13	0.732/79	2.39/2.51	3.22/55	1.38/0.77	-0.37/-2.21	-3.6/-6.54	
Θ(45°)	-9.93/-12.11	-10.35/-6.39	-8.02/-5.05	-3.09/-2.79	-2.58/-1.41	-0.58/-0.07	0.4/-1.45	-1.35/0.24	-0.61/-1.65	-1.35/-1.47	-2.82/-3.2	-4.1/-1.35	-2.76/-7.36	-12.34/-11.21	-7.07/-7.85	-6.16/-4.93	-3.52/-1.84	0.33/1.55	1.2/1.59	1.76/1.67	2.45/1.03	-0.08/-0.67	-0.9/-3.04	-4.79/-6.33	
Θ(52.5°)	-12.15/-15.72	-11.86/-8.12	-8.77/-5.24	-3.19/-2.78	-2.76/-1.89	-0.86/-0.78	-0.64/-1.5	-2.43/-2.02	-4.3/-1.61	-1.95/-4.85	-4.73/-2.58	-3.7/-1.98	-5.15/-5	-7.33/-11.1	-9.35/-9.27	-5.99/-7.19	-4.67/-3.16	-1.69/0.04	0.17/-0.06	0.21/0.41	1.57/-1.46	-3.67/-3.21	-2.08/-3.23	-8.3/-8.76	
Θ(60°)	-18.93/-16.04	-17.87/-14.45	-10.15/-5.61	-4.45/-3.83	-4.36/-4.12	-2.72/-1.95	-3.09/-2.98	-7.39/-7.13	-4.53/-5.29	-7.35/-5.33	-8.62/-7.68	-6.36/-6.3	-6.9/-5.39	-9.58/-13.57	-14.94/-14.81	-13.64/-9.67	-6.82/-5.4	-4.03/-2.02	-1.42/-3.46	-2.91/-2.83	-2.68/-5.92	-5.55/-8.08	-7.03/-6.4	-9.55/-13.37	
Θ(67.5°)	-18.68/-18.14	-19.17/-18.43	-16.15/-7.44	-6.57/-5.81	-6.12/-8.28	-5.89/-4.14	-5.13/-6.84	-11.93/-8.25	-9.61/-6.96	-9.04/-9.96	-14.68/-11.17	-10.62/-9.1	-8.78/-7.1	-11.79/-13.05	-16.07/-10.75	-15.88/-11.81	-11.02/-7.95	-2.69/-2	-3.06/-4.91	-8.23/-7.06	-5.83/-8.87	-10.74/-11.59	-9.57/-8.64	-13.42/-14.63	
Θ(75°)	-19.24/-18.63	-18.07/-18.93	-18.28/-14.57	-12.09/-9.83	-9.09/-10.66	-8.42/-4.99	-6.32/-5.4	-11.31/-11.84	-8.44/-9.22	-15.46/-12.32	-15.35/-17.31	-15.96/-12.81	-11.77/-8.86	-9.62/-13.27	-13.58/-9.07	-13.02/-10.92	-9.11/-8.57	-2.89/-1.31	-3.97/-4.46	-8.53/-9.88	-9.18/-10.97	-11.24/-11.1	-14.85/-10.13	-13.23/-18.48	
Θ(82.5°)	-17.81/-19.23	-18.46/-18.22	-19.01/-14.6	-11.91/-9.11	-8.11/-8.99	-8.54/-6.51	-10.36/-9.06	-10.31/-14.57	-16.39/-10.64	-17.78/-18.23	-17.84/-18.87	-18.42/-16.44	-11.62/-12.34	-12.24/-17.45	-12.53/-9.91	-13.3/-15.04	-13.01/-8.16	-4.24/-3.62	-7.84/-7.33	-10.16/-9.38	-11.5/-12.15	-12.66/-14.74	-14.15/-12.77	-17.08/-15.02	
Θ(90°)	-19.19/-17.22	-18.62/-18.41	-18.92/-14.29	-10.71/-9.59	-8.63/-8.13	-9.07/-7.11	-9.58/-9.46	-16.12/-14.76	-18.11/-14.04	-16.43/-18.45	-17.72/-15.8	-19.23/-18.64	-12.77/-17.79	-10.3/-13.72	-17.55/-13.66	-14/-16.34	-12.06/-8.62	-7.27/-4.94	-12.48/-10.76	-10.32/-8.13	-13.66/-10.99	-13.82/-15.16	-13.25/-16.95	-15.8/-16.54	
Θ(97.5°)	-13.82/-17.82	-18.98/-18.75	-18.99/-18.9	-15.64/-11.83	-9.9/-9.39	-8.77/-8.86	-9.38/-9.27	-17.99/-18.18	-17.74/-15.57	-18.36/-15.09	-18.8/-13.65	-14.13/-18.47	-12.9/-2.61	-10.57/-13.51	-12.77/-13.81	-13.65/-18.95	-15.81/-18.22	-10.78/-12.86	-11.73/-9.99	-12.57/-13.49	-18.35/-17.6	-11.95/-11.28	-17.59/-13	-15.02/-16.05	-15.55/-15.84
Θ(105°)	-13.39/-18.22	-18.72/-17.79	-19.1/-16.33	-15.7/-14.63	-11.28/-11.71	-10.66/-8.02	-7.88/-10.45	-17.02/-18.78	-19.29/-12.7	-17.79/-13.46	-18.73/-15.14	-17.11/-18.36	-13.64/-18.99	-16.95/-18.99	-17.93/-18.78	-17.64/-18.73	-18.96/-13.71	-15.58/-14.16	-13.24/-14.13	-14.08/-9.47	-12.34/-14.2	-16.28/-19.18	-12.05/-18.58	-15.19/-15.53	
Θ(112.5°)	-12.85/-15.07	-18.64/-19	-17.18/-15.57	-13.66/-13.14	-9.37/-10.01	-9.52/-8.03	-7.71/-8.19	-14.05/-12.91	-15.65/-14.23	-18.47/-10.44	-14.69/-12.53	-10.02/-11.57	-9.86/-13.12	-17.97/-17.74	-17.79/-17.49	-13.19/-19.02	-18.67/-18.96	-18.01/-9.14	-8.05/-13.7	-13.02/-11.74	-9.84/-13.47	-18.42/-11.87	-13.67/-18.15	-12.65/-11.74	
Θ(120°)	-15.34/-18.08	-17.32/-18.87	-17.14/-15.67	-16.05/-15.88	-10.94/-8.76	-9.19/-12.17	-8.2/-5.5	-9.14/-13.57	-9.23/-14.15	-14.92/-8.91	-13.79/-12.44	-12.9/-2.61	-10.57/-13.51	-12.77/-13.81	-13.65/-18.95	-15.81/-18.22	-10.78/-12.86	-11.73/-9.99	-12.57/-13.49	-18.35/-17.6	-9.22/-12.47	-19.07/-18.16	-14.89/-15.1	-10.77/-13.48	
Θ(127.5°)	-13.62/-12.71	-16.44/-18.18	-17.44/-18.47	-17.57/-18.24	-12.86/-10.23	-7.9/-8.1	-8.38/-9.75	-6.51/-9.42	-14.06/-9.61	-16.47/-6.5	-7.18/-15.28	-18.81/-8.99	-12.59/-18.87	-15.7/-12.17	-17.13/-17.9	-12.87/-11.59	-18.07/-14.29	-17.63/-11.52	-17.31/-18.77	-17.17/-13.39	-16.47/-13.08	-13.32/-18.07	-13.76/-18.06	-14.14/-14.31	
Θ(135°)	-9.19/-15.33	-14.63/-15.36	-14.17/-18.23	-18.28/-18.91	-16.85/-11	-7.82/-6.34	-7.8/-11.72	-6.29/-8.56	-12.72/-10.13	-13.95/-9.05	-5.63/-8.52	-15.92/-14.84	-10.61/-8.59	-12.49/-18.41	-19.34/-18.41	-19.25/-14.68	-12.89/-13.55	-17.88/-18.67	-14.96/-16.46	-15.93/-18.43	-18.03/-14.91	-10.72/-15.18	-12.98/-15.42	-12.56/-10.18	
Θ(142.5°)	-9.65/-10.92	-12.38/-18.87	-14.85/-18.72	-18.28/-18.29	-13.74/-10.7	-12.35/-10.66	-7.77/-6.07	-8.12/-11.02	-12.17/-11.15	-13.45/-7.2	-7.82/-12.42	-9.65/-8.73	-19.29/-18.12	-19.09/-19.19	-13.24/-12.23	-12.01/-12.72	-12.97/-14.57	-17.74/-15.96	-13.53/-18.99	-17.73/-14.71	-15.82/-16.34	-11.07/-13.99	-11.87/-12.06	-11.01/-10.66	
Θ(150°)	-14.97/-11.37	-10.77/-11.04	-14.4/-19.5	-18.26/-18.27	-12.16/-9.74	-9.4/-11.12	-15.06/-11.71	-7.71/-7.84	-10.98/-13.81	-14.58/-8.75	-8.74/-9.37	-5.9/-8.82	-11.66/-10.32	-11.99/-17.42	-16.21/-17.59	-18.67/-10.72	-18.11/-13.83	-11.96/-14.57	-17.94/-18.22	-12.91/-11.32	-9.61/-10.67	-12.77/-18.07	-13.32/-8.64	-8.11/-13.43	
Θ(157.5°)	-12.7/-13.11	-16.08/-17.17	-18.49/-19.19	-17.86/-19.07	-16.39/-16.89	-15.24/-13.69	-13.78/-15.96	-18.76/-13.31	-10.99/-8.97	-9.69/-12.09	-15.52/-18.75	-15.72/-14.77	-18.56/-17.76	-16.87/-12.64	-12.96/-12.71	-14.31/-17.66	-14.18/-14.95	-15.5/-18.48	-15.53/-12.45	-10.23/-9.14	-7.98/-7.21	-10.07/-10.2	-14.03/-16.92	-12.66/-11.69	
Θ(165°)	-19.01/-18.17	-17.9/-17.77	-17.85/-19.2	-18.72/-17	-18.47/-14.9	-15.28/-18.19	-18.14/-16.89	-13.09/-10.35	-9.42/-10.38	-13.67/-16.61	-18.51/-16.63	-13.79/-14.86	-18.93/-18.78	-17.74/-18.33	-19.18/-18.72	-17.44/-18.09	-18.11/-18.9	-17.77/-15.37	-11.63/-11.98	-11.28/-10.58	-8.85/-8.82	-11.39/-11.57	-11.51/-11.86	-11.98/-12.46	
Θ(172.5°)	-16.36/-18.41	-19.09/-18.36	-17.77/-18	-17.1/-16.75	-14.05/-13.68	-12.71/-10.33	-9.22/-8.44	-7.67/-8.1	-10.24/-15.02	-18.49/-17.21	-14.73/-15.76	-17.04/-18.97	-17.99/-18.38	-19.08/-17.36	-18.88/-17.21	-16.2/-16.57	-15.95/-12.97	-13.07/-12.35	-11.94/-12.25	-11.32/-12.28	-14.6/-13.64	-13.02/-14.4	-15.77/-15.01		
Θ(180°)	-18.28/-18.52	-17.12/-17.32	-18.97/-18.38	-18.67/-18.44	-16.93/-15.91	-12.63/-11.21	-11.63/-11.25	-13.44/-18.55	-17.85/-16.94	-14.11/-12.19	-12.83/-17.35	-18.2/-19.22	-18.53/-19.01	-17.88/-18.21	-17.81/-15.84	-15.45/-12.18	-11.25/-11.4	-10.02/-10.07	-10.06/-9.28	-7.89/-8.83	-9.61/-10.5	-10.41/-9.65	-10.42/-12.58	-16.66/-17.83	
Freq(Hz)	5.3GPol	ThetaAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ(0°)	0.16/0.49	0.62/1.04	1.21/1.1	0.72/-0.2	-0.37/-0.9	-2.42/-3.77	-5.07/-7.36	-11.9/-18.13	-18.27/-16.82	-11.17/-7.49	-5.37/-3.11	-1.94/-1.43	-0.62/0.07	0.65/0.68	0.71/0.73	0.25/0.08	-0.02/-1.07	-2.39/-3.02	-4.49/-7.13	-10.38/-15.61	-18.14/-13.73	-9.08/-6.03	-4.06/-2.42	-1.11/-0.25	
Θ(7.5°)	1.79/1.95	2.04/2.51	2.912/8.27	2.64/2.31	1.76/1.33	0.28/-1.08	-2.28/-3.98	-6.79/-11.31	-15.31/-14.56	-10.39/-7.34	-5.17/-3.52	-2.57/-2.27	-1.9/-1.82	-1.87/-1.07	-0.94/-1.15	-0.71/-1.05	-1.06/-1.82	-3.06/-4.87	-6.98/-10.46	-15.57/-17.95	-18.41/-17.11	-10.3/-6.23	-3.5/-1.38	0.18/1.09	
Θ(15°)	0.52/0.44	0.77/1.22	1.66/1.85	1.89/1.54	1.09/0.65	0.07/-1.27	-2.12/-2.92	-4.45/-6.09	-7.17/-5.63	-4.43/-3.45	-2.38/-2	-1.9/-1.75	-1.28/-0.74	-0.68/-1.25	-1.95/-2.23	-2.12/-2.07	-2.29/-3.84	-5.42/-7.98	-11.78/-15.27	-11.58/-8.38	-6.04/-4.1	-2.64/-1.37	-0.38/-0.25		
Θ(22.5°)	-1.31/-1.21	-0.85/-0.59	-0.71/-0.26	0.03/0.37	0.63/0.68	0.23/-0.87	-1.51/-1.66	-3.22/-4.29	-4.99/-6.79	-7.98/-7.33	-6.73/-6.59	-6.41/-6.27	-5.14/-5.02	-6.4/-5.88	-4.62/-4.22	-3.58/-2.94	-3.78/-4.49	-2.77/-6.57	-7.83/-10.39	-10.46/-9.99	-9.82/-7.43	-4.81/-2.7	-1.9/-2.1	-1.98/-1.79	
Θ(30°)	-4.28/-6.06	-4.97/-3.61	-1.99/-0.39	0.5/0.79	0.76/0.33	-0.16/-2.37	-4.56/-5.75	-5.79/-5.75	-5.59/-6.91	-8.05/-6.71	-8.48/-9.67	-8.71/-6.33	-7.35/-8.26	-6.59/-5.55	-5.01/-3.75	-3.87/-3.36	-1.64/-1.51	-2.56/-4.65	-6.12/-9.11	-13.68/-12.92	-15.36/-14.24	-11.88/-7.46	-5.53/-4.17	-3.27/-3.15	
Θ(37.5°)	-7.73/-7.24	-5.78/-4.77	-3.07/-1.47	0.02/0.4	0.62/0.66	0.94/0.52	-1.17/-2.95	-5.02/-5.1	-4.16/-5.88	-8.17/-8.49	-8.71/-7.54	-6.43/-6.17	-7.41/-5.36	-4.06/-5.06	-5.02/-3.61	-2.96/-4.03	-3.93/-3.1	-2.75/-5.27	-7.84/-9.35	-14.42/-12.56	-17.13/-18.79	-18.93/-11.25	-7.41/-6.22	-6.44/-6.03	
Θ(45°)	-7.6/-6.51	-6.52/-6.09	-4.35/-2.83	-2.25/-1.78	-1.75/-1.95	-1.71/-1	-0.9/-2.12	-2.18/-2.94	-2.39/-3.65	-8.57/-5.34	-6.12/-6.49	-9.16/-16.02	-13.74/-8.63	-6.83/-4.77	-3.46/-2.74	-2.23/-1.84	-3.21/-2.98	-1.85/-2.36	-5.06/-9.91	-10.77/-9.76	-11.33/-17.16	-13.63/-14.71	-11.44/-5.65	-7.92/-8.12	
Θ(52.5°)	-11.48/-11.09	-5.24/-4.45	-3.18/-3.11	-4.16/-4.35	-3.56/-1.78	-0.74/-0.56	-0.64/-2.63	-3.41/-1.94	-1.36/-2.67	-7.14/-3.03	-5/-2.22	-6.59/-7.84	-8.79/-10.04	-7.98/-2.2	-1.8/-5.17	-5.71/-3.73	-4.4/-5.47	-10.22/-8.35	-8.87/-8.81	-16.69/-12.23	-7.82/-10.63	-12.89/-8.44	-5.91/-4.87		
Θ(60°)	-8.43/-9	-8.72/-6.59	-4.56/-3.84	-4.74/-4.77	-4.2/-2.67	-1.49/-1.64	-3.79/-4.54	-4.41/-1.92	-5.78/-4.15	-4.63/-8.7	-5.5/-2.61	-4.93/-7.73	-6.71/-8.19	-5.8/-3.33	-3.62/-8.29	-17.72/-12.01	-11.02/-12.36	-10.93/-11.86	-9/-12.94	-13.91/-13.59	-12.34/-9.17	-9.23/-19.31	-8.12/-7.67	-12.03/-11.93	
Θ(67.5°)	-8.34/-9.78	-8.4/-6.66	-5.32/-6.89	-8.06/-8.68	-7.63/-7.45	-5.22/-3.93	-4.15/-5.73	-6.45/-3.84	-5.39/-5.28	-6.02/-2.69	-5.92/-3.22	-4.88/-5.61	-7.43/-7.74	-4.33/-											



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

θ(75°)	-16.33/-18.92	-17.47/-18.25	-15.16/-11.6	-11.26/-8.6	-7.93/-6.5	-4.73/-6.74	-6.13/-6.57	-5.76/-8.67	-11.09/-10.63	-8.11/-17.84	-14.36/-16.2	-19.22/-11.23	-8.85/-7.08	-6.73/-15.02	-10.64/-11.04	-11.25/-7.91	-10.17/-9.46	-3.86/-1.62	-1.35/-3.06	-5.06/-6.45	-9.99/-13.27	-16.52/-12.38	-12.83/-16.28	-10.48/-17.22
θ(82.5°)	-16.19/-18.3	-18.51/-17.46	-14.05/-3.07	-11.28/-9.37	-8.2/-7.06	-5.04/-6.14	-7.67/-9.02	-5.52/-9.41	-10.17/-11.17	-10.73/-19.15	-16.7/-14.73	-16.76/-16.48	-13.15/-8.63	-6.81/-11.69	-12.8/-12.77	-13.26/-7.9	-10.82/-10.88	-2.93/-3.21	-3.28/-8.07	-9.25/-11.46	-12.65/-13.89	-16.96/-14.41	-13.12/-16	-10.72/-16.76
θ(90°)	-13.16/-17.72	-17.72/-18.47	-18.96/-19.22	-16.17/-13.03	-11.01/-8.77	-7.02/-7.49	-8.8/-13.9	-6.53/-8.78	-10.83/-10.41	-9.48/-17.77	-15.81/-17.58	-12.54/-17.45	-16.44/-17.52	-11.19/-12.97	-16.39/-15.46	-12.93/-12.01	-11.16/-11.28	-11.25/-9.47	-5.37/-9.09	-11.11/-14.34	-11.25/-16.66	-16.52/-14.41	-13.45/-12.21	-11.11/-14.42
θ(97.5°)	-14.21/-19.41	-17.57/-17.63	-17.7/-18.36	-16.76/-12.43	-10.51/-8.93	-8.62/-9.04	-9.14/-12.04	-9.75/-9.43	-11.06/-10.8	-8.39/-14.15	-18.58/-13.63	-11.8/-15.44	-17.62/-15.39	-12.22/-18.61	-18.55/-19.33	-11.45/-18.55	-11.94/-9.24	-10.78/-13.82	-14.4/-18.72	-14.01/-19	-8.29/-10.77	-14.41/-10.6	-11.4/-12.9	-10.34/-13.31
θ(105°)	-16.14/-19.27	-18.89/-18.18	-19/-17.67	-18.86/-13.48	-10.54/-9.53	-8.57/-10.52	-9.5/-12.63	-12.92/-11.15	-11.17/-12.18	-9.24/-11.49	-13.31/-14.9	-14.44/-10.11	-10.01/-17.65	-17.58/-18.7	-18.19/-18.04	-17.57/-12.77	-18.18/-18.26	-14.77/-18.25	-17.29/-12.12	-10.68/-10.9	-8.52/-12.28	-10.17/-10.97	-9.95/-10.74	-11.22/-12.41
θ(112.5°)	-15.97/-18.17	-18.68/-18.7	-17.94/-19.24	-18.61/-14.7	-10.23/-7.24	-6.58/-7.57	-12.83/-11.97	-9.65/-13.97	-10.92/-10.66	-13.97/-7.36	-11.48/-14.53	-12.06/-17.53	-11.9/-13.65	-17.93/-14.29	-18.29/-19.34	-15.25/-15.03	-15.79/-5.91	-9.19/-7.25	-12.15/-7.87	-6.05/-10.7	-10.42/-9.68	-10.56/-11.26	-12.42/-12.07	
θ(120°)	-19.31/-18.6	-17.85/-17.63	-19.28/-18.53	-19.15/-16.28	-17.21/-12.94	-7.04/-6.02	-8.31/-9.99	-9.5/-12.65	-13.66/-9.88	-15.48/-9.12	-8.43/-16.13	-12.25/-14.42	-16.52/-18.61	-17.96/-18.01	-12.05/-18.09	-17.77/-19.25	-9.78/-15.68	-11.58/-7.93	-10.88/-12.34	-14.62/-8.64	-7.11/-11.9	-11.55/-10.19	-10.21/-13.37	-13.79/-16.26
θ(127.5°)	-18.18/-18.82	-18.31/-18.28	-15.63/-18.99	-16.16/-18.59	-18.28/-10.77	-7.29/-5.67	-6.78/-8.91	-10.4/-6.19	-10.09/-15.5	-9.34/-13.48	-12/-13.55	-18.54/-18.59	-18.75/-15.04	-17.9/-19.05	-18.24/-18.58	-16.21/-14.77	-12.81/-17.63	-8.97/-6.98	-10.87/-13.66	-13.25/-10.92	-15.25/-11.96	-8.17/-8.99	-14.37/-18.73	-13.29/-17.14
θ(135°)	-17.8/-15.12	-12.18/-17.96	-19.33/-18.95	-17.76/-18.13	-18.24/-14.21	-16.1/-14.54	-7.01/-6.37	-12.29/-7.27	-5.55/-13.68	-14.43/-8.88	-11.97/-13.83	-19.3/-12.12	-11.12/-17.75	-12.83/-14.25	-18.91/-16.83	-16.4/-18.69	-16.04/-14.8	-16.31/-14.31	-10.49/-8.32	-9.87/-13.48	-18.6/-9.37	-11.31/-9.39	-12.41/-13.23	-11.87/-13.05
θ(142.5°)	-15.88/-15.43	-13.07/-12.75	-16.11/-16.85	-17.81/-17.38	-14.87/-13.34	-12.78/-11.14	-10.68/-8.69	-7.24/-11.66	-12.83/-6.47	-7.33/-16.7	-10.49/-7.41	-12.95/-18.85	-13.73/-18.43	-15.34/-18.17	-18.17/-18.51	-18.44/-17.5	-17.87/-18.21	-13.78/-10.99	-13.15/-9.42	-8.88/-10.41	-18.76/-9.17	-11.35/-9.31	-9.68/-11.02	-11.59/-8.95
θ(150°)	-11.46/-13.08	-11.56/-12.12	-14.92/-15.16	-14.36/-16.95	-14.84/-11.32	-9.01/-7.3	-8.64/-15.49	-8.28/-6.99	-14.71/-13.43	-7.62/-7.73	-9.56/-8.29	-10.85/-18.25	-15.47/-14.01	-16.52/-17.5	-17.1/-18.76	-15.46/-18.12	-19.02/-15.18	-13.75/-16.77	-14.58/-9.7	-9.57/-9.77	-9.1/-7.75	-8/-9.29	-8.62/-8.47	-9.2/-9.37
θ(157.5°)	-11.58/-15.43	-17.87/-16.16	-17.32/-19.41	-19.35/-19.99	-17.96/-18.01	-11.89/-14.88	-11.66/-10	-10.45/-18.06	-17.29/-12.95	-14.65/-11.12	-7.35/-7.34	-11.59/-18.95	-18.31/-1.09	-17.97/-18.69	-18.67/-17.7	-17.42/-15.79	-14.62/-11.56	-9.55/-9.7	-13.41/-10	-6.49/-7.61	-6.43/-7.37	-8.23/-6.71	-7.34/-6.65	
θ(165°)	-11.26/-12.01	-13.79/-16.5	-18.96/-19.22	-18.62/-19.11	-18.07/-18.78	-18.11/-17.93	-17.98/-17.94	-14.54/-11.79	-10.79/-12.01	-15.44/-18.92	-19.14/-19.31	-18.2/-18.24	-19.51/-16.66	-18.64/-19.09	-16.25/-17.78	-14.59/-14.88	-15.06/-16.43	-18.45/-16.79	-13.42/-9.6	-6.69/-6.67	-6.92/-5.92	-5.45/-6.47	-8.04/-10.21	-13.27/-13.83
θ(172.5°)	-12.25/-14.91	-17.51/-18.33	-17.92/-17.82	-18.06/-15.98	-16.04/-15.78	-13.99/-15.59	-12.55/-11.9	-10.26/-9.36	-10.33/-14.16	-17.48/-18.53	-18.73/-17.15	-19.5/-18.1	-18.72/-17.22	-18.11/-17.22	-18.82/-18.77	-18.59/-16.42	-13.77/-12.58	-11.08/-10.34	-8.77/-7.28	-6.11/-4.94	-4.39/-4.91	-5.79/-6.42	-7.07/-7.67	-7.9/-9.2
θ(180°)	-9.65/-10.62	-11.88/-14.81	-17.49/-18.49	-18.9/-17.44	-19.18/-17.29	-12.59/-10.42	-9.21/-9.72	-9.48/-12.89	-14.32/-12.78	-11.39/-10.51	-9.84/-9.81	-11.19/-11.42	-10.45/-10.49	-11.66/-15.25	-15.11/-16.19	-17.54/-18.27	-17.88/-18.66	-19.21/-16.47	-12.46/-10.61	-9.41/-8.94	-8.08/-8.04	-9.3/-9.16	-8.94/-9.25	-8.72/-8.84
Freq(Hz)	5.785GPol.	ThetaAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
θ(0°)	0.921/1	1.221/0.8	1.31/0.5	0.440/1.4	0.86/-1.8	-3.12/-5.01	-5.98/-9.55	-14.1/-18.19	-18.88/-16.15	-10.51/-7.65	-2.76/-2.07	-1.07/-0.57	-0.35/-0.21	-0.1/-0.5	-0.91/-1.5	-2.18/-3.17	-4.73/-6.02	-8.42/-11.7	-18.13/-17.83	-16.42/-9.87	-6.63/-4.28	-2.68/-1.43	-0.510/5.5	
θ(7.5°)	1.48/2.14	2.58/2.47	2.26/2.12	1.430/7.1	0.61/-0.28	-1.57/-2.79	-4.14/-5.62	-8.86/-13.28	-17.64/-17.06	-12.39/-8.94	-6.46/-5.18	-4.07/-3.05	-2.15/-1.26	-0.67/-0.67	-1.57/-2.29	-3.05/-3.82	-4/5.37	-6.32/-8.32	-10.34/-14.19	-16.8/-13.15	-9.73/-6.37	-4.04/-2.01	-0.540/1.2	0.74/1.03
θ(15°)	0.430/83	0.920/7	0.290/48	0.650/16	-0.08/-0.21	-1.15/-1.81	-2.69/-3.72	-5.9/-9.86	-14.47/-15.61	-13.65/-10.58	-6.88/-5.1	-3.84/-3.04	-2.24/-2.66	-4.11/-4.82	-3.14/-3.86	-3.8/-4.59	-5.4/-5.69	-7.98/-7.59	-8.1/-10.26	-13.01/-13.63	-10.49/-6.77	-3.78/-2.19	-1.5/-1.86	-1.37/-0.53
θ(22.5°)	-1.71/-1.68	-1.68/-1.78	-0.79/-0.2	0.090/47	0.430/6	-0.1/-0.9	-2.39/-3.53	-4.79/-8.57	-9.94/-18.1	-9.94/-11.44	-8.42/-8.66	-4.44/-2.62	-2.45/-2.87	-2.31/-2.07	-2.7/-5.72	-8.88/-9.19	-10.08/-8.11	-6.97/-7.68	-8.37/-7.71	-6.57/-7.97	-9/-6.84	-3.58/-3.35	-2.83/-1.54	
θ(30°)	-2.39/-2.48	-3.32/-2.17	-1.21/-0.76	0/-0.86	-1.41/-1.48	-2.17/-1.12	-0.93/-0.75	-3.06/-5.4	-5.16/-4.5	-6.36/-11.58	-10.48/-8.47	-7.04/-6.75	-9.03/-9.91	-10.92/-12.13	-12.18/-10.79	-9.17/-6.46	-6.07/-4.17	-5.21/-5.51	-6.56/-7.55	-6.43/-6.98	-9.38/-9.08	-7.53/-4.89	-4.52/-5.49	-5.34/-3.15
θ(37.5°)	-3.04/-3.49	-2.61/-3.8	-1.85/-1.65	-2.78/-3.21	-2.15/-1.36	-1.46/-2.06	-2.29/-1.9	-2.31/-1.76	-4.1/-3.74	-3.96/-6.99	-7.03/-6.24	-4.53/-4.8	-3.83/-3.97	-4.43/-6.96	-8.93/-9.57	-9.06/-8.55	-6.1/-5.95	-4.49/-6.49	-5.5/-5.08	-7.81/-8.78	-10.17/-6.63	-7.13/-5.41	-6.62/-3.47	-4.11/-3.64
θ(45°)	-5.08/-4.43	-3.97/-4.27	-3.85/-3.77	-4.36/-3.86	-3.99/-5	-3.47/-2.44	-0.10/-0.88	-1.96/-2.12	-3.93/-3.22	-3.57/-3.36	-3.48/-7.64	-5.91/-4.63	-3.28/-3.01	-5.29/-9.25	-7.97/-6.72	-2.76/-1.35	-0.67/-0.82	-0.35/-2.28	-4.58/-3.32	-4.56/-7.11	-16.19/-9.97	-9.05/-5.85	-4.6/-4.65	-3.87/-5.88
θ(52.5°)	-4.12/-5.55	-7.47/-4.75	-1.84/-2.45	-2.1/-1.18	-3.22/-3.85	-5.1/-2.6	-2.51/-0.72	-1.09/-2.57	-2.96/-1.83	-2.19/-3.18	-3.27/-4.19	-3.25/-5.73	-4.65/-3.43	-3.06/-2.15	-4.34/-5.75	-3.95/-2.82	-2.94/-1.28	-1.31/-2.62	-2.43/-3.36	-7.89/-11.51	-7.35/-8.91	-16.61/-5.01	-1.63/-3.46	-7.93/-6.39
θ(60°)	-6.36/-7.89	-7.54/-4.47	-2.54/-2.66	-3.55/-2.19	-3.52/-3.56	-4.62/-3.16	-2.08/-1.4	-1.23/-4.59	-3.58/-2.76	-2.65/-4.2	-3/-3.04	-0.54/-2.1	-2.68/-3.31	-1.32/-0.14	-1.97/-3.12	-3.85/-4.08	-7.35/-6.7	-5.27/-7.56	-5.95/-6.86	-11.13/-8.97	-8.79/-11.14	-11.5/-4.97	-3.81/-5.72	-7.76/-5.48
θ(67.5°)	-8.21/-5.61	-9.95/-6.64	-6.35/-2.97	-1.78/-1.82	-2.26/-2.98	-4.36/-5.91	-3.46/-3.24	-0.55/-3.91	-3.25/-4.62	-3.18/-2.04	0.62/-0.36	-3.55/-3.94	-5.510/4.1	-10.3/-1.25	-2.43/-3.01	-4.34/-5.72	-4.92/-7.34	-11.32/-8.97	-7.62/-12.87	-4.70/-4.57	-5.99/-4.62	-3.82/-7.62		
θ(75°)	-4.83/-7.52	-12.54/-6.13	-4.31/-3.58	-3.03/-2.65	-3.07/-3.49	-3.46/-6.9	-3.67/-3.16	-2.12/-2.66	-8.85/-3.82	-2.39/-7.74	-2.16/-2.82	-0.32/-0.42	-3.97/-6.31	-3.27/-0.87	-0.52/-0.89	-1.85/-1.5	-0.21/-1.5	-2.22/-5.9	-4.57/-6.62	-9.45/-8.6	-7.68/-13.64	-4.31/-5.39	-4.78/-2.36	-4.28/-7.78
θ(82.5°)	-4.15/-11.31	-8.13/-6.66	-5.4/-4.76	-5.32/-1.47	-3.67/-5.79	-5.35/-7.65	-3.41/-3.92	-3.55/-3.81	-8.04/-5.52	-3.69/-8.01	-2.62/-4.56	-2.05/-1.76	-7.71/-8.93	-4.44/-2.31	-0.64/-1.96	-4.54/-2.29	0.1/-2.35	-4.01/-8.84	-4.91/-7.04	-8.89/-7.13	-6.59/-12.8	-3.26/-5.51	-3.31/-1.44	-6.39/-6.02
θ(90°)	-5.66/-8.25	-7.49/-7.22	-8.55/-6.66	-5.62/-4.54	-3.93/-4.47	-5.39/-8.62	-5.57/-4.36	-5.06/-5.2	-6.87/-7.24	-4.17/-8.36	-4.58/-7.16	-3.47/-3.1	-6.53/-10.68	-6.28/-4.09	-1.6/-3.17	-4.83/-3.7	-2.27/-3.49	-6.16/-10.98	-9.33/-11.16	-8.98/-7	-10.43/-8.84	-5.2/-9.91	-3.02/-3.07	-6.83/-6.21
θ(97.5°)	-7.27/-9.53	-9.61/-10.35	-9.18/-7.05	-7.21/-5.67	-6.88/-5.97	-6.04/-8.4	-7.94/-5.83	-5.9/-8.1	-6.48/-10.34	-4.71/-11.35	-6.31/-9.62	-4.91/-4.29	-7.41/-11.12	-10.23/-6.67	-5.28/-7.15	-9.43/-6.73	-6.01/-9.82	-12.92/-9.64	-12.93/-13.12	-12.4/-9.13	-11.62/-7.57	-6.05/-10.81	-3.75/-4.97	-6.98/-4.7
θ(105°)	-7.61/-8.24	-11.38/-9.64	-9.19/-8.82	-11.07/-9.88	-8.91/-8.91	-7.67/-4.88	-9.18/-8.05	-8.51/-5.56	-7.03/-9.95	-6.17/-10.88	-7.54/-16.78	-7.82/-5.35	-7.46/-9.22	-18.53/-16.61	-7.67/-7.76	-8.03/-11.42	-11.36/-8.88	-9.22/-10.26	-12.86/-12.38	-12.22/-9.88	-12.02/-9.88	-7.73/-11.21	-6.13/-6.32	-5.77/-5.88
θ(112.5°)	-9.81/-8.54	-8.25/-12.64	-15.69/-12.03	-10.43/-13.82	-15.12/-13.81	-9.31/-8.64	-9.15/-6.78	-7.6/-6.96	-5.9/-9.35	-7.73/-12.12	-12.11/-13.89	-18.85/-7.34	-13.72/-13.03	-12.02/-10.21	-7.81/-6.76	-11.22/-13.53	-14.58/-13.42	-17.97/-10.77	-13.81/-16.38	-15.2/-15.27	-11.54/-6.9	-8.26/-9.77	-6.41/-8.34	-6.01/-4.75
θ(120°)	-10.76/-9.5	-8.73/-16.16	-17.97/-17.05	-9.63/-10.02	-8.93/-9.07	-10.14/-9.42	-9.61/-6.67	-8.68/-8.43	-9.34/-6.34	-18.47/-10.71	-16.88/-18.34	-18.19/-13.17	-7.86/-9.96	-11.27/-8.23	-17.97/-9.66	-10.41/-14.06	-11.44/-14.83	-18.38/-15.84	-16.62/-17.69	-13.91/-14.77	-17.65/-12.14	-12.25/-8.32</		



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

Θ(120°)	-17.53/-17.9	-17.15/-14.24	-17.14/-19.17	-17.93/-14.03	-17.28/-13.41	-9.25/-12.41	-8.09/-9.95	-9.69/-12.67	-8.27/-10.64	-9.54/-12.32	-6.02/-8.29	-8.58/-6.14	-6.48/-12.73	-13.68/-11.56	-9.91/-17.85	-18.32/-18.23	-9.42/-18.99	-11.75/-6.76	-10.74/-11.6	-13.04/-9.78	-6.11/-11.84	-14.53/-9.74	-8.74/-7.89	-11.75/-11.07
Θ(127.5°)	-15.53/-14.81	-17.25/-13.24	-15.19/-16.77	-15.25/-17.93	-15.85/-14.49	-10.2/-6.84	-6.3/-11.96	-10.31/-15.29	-10.15/-14.68	-10.85/-10.79	-9.87/-6.13	-7.5/-11.55	-11.35/-15.04	-17.84/-19.1	-15.28/-18	-13.71/-18.96	-11.29/-13.93	-10.77/-16.31	-11.18/-18	-14.33/-10.29	-10.23/-10.49	-7.73/-9.88	-11.1/-9.94	-9.93/-11.45
Θ(135°)	-19.02/-12.21	-17.02/-17.55	-18.16/-16.74	-14.11/-12.01	-9.67/-11.45	-9.33/-6.8	-9.3/-8.28	-9.07/-14.47	-7.25/-9.36	-13.02/-7.3	-11.47/-8.07	-11.11/-8.25	-12.77/-8.41	-13.91/-11.39	-9.27/-18.19	-17.52/-18.87	-8.22/-11.92	-14.64/-7.44	-6.64/-11.49	-14.52/-10.24	-12.12/-22	-6.63/-4.38	-12.58/-16.28	-13.91/-13.62
Θ(142.5°)	-14.3/-17.74	-19.29/-16.18	-15.17/-13.21	-11.88/-11.49	-15.79/-13.97	-12.25/-10.44	-9.13/-6.68	-9.1/-12.05	-7.32/-12.57	-8.63/-12.65	-8.82/-8.83	-11.75/-7.54	-18.6/-16.88	-15.54/-17.65	-18.07/-18.73	-18.88/-18.75	-12.83/-14.34	-8.36/-11.92	-9.69/-9.21	-13.18/-13.96	-13.21/-9.31	-8.47/-17.05	-9.53/-9.82	-17.75/-14.56
Θ(150°)	-15.63/-18.55	-18.48/-17.78	-18.64/-18.69	-18.81/-18.21	-14.53/-11.43	-11.21/-15.01	-9.18/-6.2	-7.05/-9.09	-10.51/-11.36	-14.57/-10.78	-6.79/-5.65	-8.8/-8.92	-13.15/-16.93	-12.8/-18.6	-17.52/-16.82	-18.11/-17.94	-10.88/-8.36	-10.08/-8.72	-5.97/-6.86	-10.02/-13.26	-10.58/-9.79	-6.46/-11.01	-18.27/-9.95	-9.33/-13.95
Θ(157.5°)	-18.25/-18.23	-16.41/-14.09	-14.58/-14.4	-16.27/-18.44	-18.1/-15.38	-14.45/-8.64	-6.83/-1.74	-7.31/-11.3	-11.45/-8.04	-8.76/-11.88	-13.96/-11.6	-15.82/-17.66	-18.78/-15.37	-15.43/-17.91	-15.11/-12	-12.97/-15.91	-10.81/-11.92	-12.38/-12.57	-10.62/-10.3	-9.58/-9.65	-7.52/-9.03	-14.15/-10.64	-14.18/-16.59	
Θ(165°)	-11.22/-12.41	-13.37/-16.07	-18.06/-17.79	-18.18/-18.87	-14.03/-10.76	-7.71/-6.23	-6.89/-8.32	-12.33/-12.41	-8.68/-6.93	-7.66/-10.11	-16.34/-17.25	-15.92/-13.81	-15.06/-19.23	-19.13/-15.64	-14.17/-17.78	-16.54/-14.04	-13.42/-12.07	-13.23/-13.18	-11/-9.8	-9.91/-10.33	-12.17/-10.81	-9.84/-9.98	-10.15/-10.03	-10.16/-10.18
Θ(172.5°)	-17.2/-16.39	-17.6/-19.05	-18.36/-18.05	-19.24/-18.17	-18.57/-19.08	-16.25/-17.06	-14.29/-15.13	-11/-9.21	-8.74/-9.7	-14.52/-18.93	-17.64/-16.8	-18.95/-17.79	-17.95/-18.18	-18.5/-18.94	-18.25/-18.72	-18.13/-18.4	-18.3/-18.89	-17.21/-13.11	-11.26/-13.91	-13.88/-11.7	-10.44/-11.49	-11.62/-13.91	-15.75/-16.7	-15.86/-16.69
Θ(180°)	-13.87/-14.12	-15.66/-15.06	-16.14/-17.29	-17.15/-14.58	-13.92/-11.74	-14.01/-14.55	-13.46/-11.29	-9.84/-12	-17.87/-17.55	-16.68/-12.77	-14.97/-18.93	-18.22/-17.86	-18.69/-11.31	-13.4/-17.78	-17.71/-17.89	-18.69/-19.15	-18.43/-19.31	-17.76/-17.56	-17.16/-14.01	-12.39/-13.12	-13.21/-13.21	-13.13/-14.61	-14.33/-13.56	-14.27/-14.6
Freq(Hz)	6.475GPol.	ThetaAnt. 1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	0.590/8.1	0.550/2	0.460/1	0.387/-0.59	-1.48/-2.47	-3.87/-5.04	-7.58/-9.67	-12.25/-12.22	-9.5/-8.85	-4.78/-3.19	-1.93/-1.04	-0.220/4	0.430/56	0.720/4	0.60/-0.21	-0.99/-1.94	-3.58/-4.9	-7.48/-9.98	-13.4/-13.51	-11.22/-8.26	-5.19/-3.76	-2.36/-1.46	-0.51/-0.04	0.330/56
Θ(7.5°)	-0.83/-0.51	-0.71/-0.74	-1.07/-1.47	-1.74/-2.53	-3.02/-4.08	-5.79/-6.78	-9.46/-10.58	-13.92/-14.05	-15.44/-14.36	-10.55/-7.12	-5.82/-4.53	-3.58/-2.98	-2.09/-1.61	-1.94/-2.27	-1.98/-2.68	-3.32/-4.2	-5.93/-7.07	-10.59/-12.82	-17.26/-18.61	-17.75/-18.85	-16.85/-12.34	-7.94/-4.72	-2.94/-2.17	-1.64/-1.27
Θ(15°)	-3.24/-2.55	-1.57/-0.86	-0.140/-72	1.130/53	0.34/-1.05	-1.74/-2.18	-2.76/-3.95	-6.32/-8.15	-10.78/-13.7	-16.46/-15.15	-12.58/-12.28	-11.27/-7.66	-4.49/-3.11	-2.2/-3.57	-5.28/-6.97	-7.03/-8.18	-8.1/-8.07	-8.11/-8.26	-8.01/-8.17	-10.75/-13.33	-16.56/-10.29	-5.43/-4.14	-4.53/-4.39	
Θ(22.5°)	-4.22/-4.34	-3.42/-1.88	-1/-1.3	-1.35/-1.87	-0.95/-1.43	-1.44/-2.78	-3.13/-4.16	-4.81/-4.18	-4.76/-6.48	-13.83/-10.76	-7.6/-9.76	-10.82/-8.77	-6.12/-4.51	-4.38/-5.33	-5.15/-5.09	-7.14/-9.95	-11.84/-14.48	-13.36/-16.76	-14.69/-12.2	-13.73/-19.07	-15.87/-9.2	-7.29/-5.39	-4.32/-4.55	
Θ(30°)	-5.23/-4.92	-3.43/-1.68	-1.88/-2.08	-1.39/-2.1	-2.62/-2.78	-3/-0.21	-2.01/-1.73	-2.34/-4.19	-5.8/-2.99	-5.6/-8.66	-6.67/-12.23	-14.01/-9.17	-7.35/-8.33	-7.12/-6.31	-6.81/-7.77	-13.04/-16.9	-8.01/-9.99	-10.13/-9.63	-6.08/-3.38	-3.57/-8.77	-11.05/-6.26	-6.95/-6.84	-4.9/-4.15	-5.67/-5.89
Θ(37.5°)	-7.22/-4.58	-3.41/-1.88	-1.77/-1.79	-2.28/-1.39	-1/-0.82	-2.17/-0.82	-1.72/-3.37	-3.57/-1.87	-5.47/-4.7	-3.72/-6.67	-9.42/-8.59	-6.77/-9.34	-3.11/-2.1	-1.16/-0.69	-3.02/-7.99	-14.75/-12.57	-6.94/-5.92	-5.7/-4.13	-4.74/-7.76	-6.44/-7.33	-5.6/-5	-6.38/-4.76	-3.17/-5.76	-5.52/-6.46
Θ(45°)	-9.23/-6.55	-5.27/-2.49	-4.78/-4.65	-3.3/-4.27	-4.81/-4.2	-2.38/-2.74	-1.21/-0.99	-1.32/-2.23	-1.18/-3.78	-5.14/-4.53	-8.55/-5.26	-4.69/-4.14	-1.97/-1.13	0.360/44	-1.95/-4.61	-8.36/-7.16	-4.01/-3.64	-2.16/-3.38	-0.79/-3.08	-3.92/-6.71	-7.79/-7.23	-6.09/-5.2	-7.32/-5.39	-2.55/-7.56
Θ(52.5°)	-6.73/-8.74	-4.16/-2.65	-3.49/-2.08	-2.52/-2.16	-3.18/-4.49	-2.32/-1.29	-2.9/-0.48	-0.33/-1.87	-1.73/-2.67	-4.18/-3.97	-8.01/-4.55	-12.03/-5.09	-4.04/-0.35	1.02/-0.83	-3.39/-9	-6.68/-3.6	-0.54/-0.97	-1.17/-2.28	-1.01/-0.47	-1.98/-4.72	-7.59/-4.35	-2.62/-9.12	-3.53/-4.4	-5.81/-7.35
Θ(60°)	-8.58/-6.4	-2.43/-2.7	-4.01/-2.57	-4.66/-5.34	-2.46/-0.8	-5.24/-1.67	-1.3/-1.78	-3.02/-0.66	-1.59/-3.77	-1.4/-4.97	-6.02/-5.56	-9.76/-2.68	-4.1/-1.42	1.63/59	1.95/-3.14	-5.12/-6.11	-7.27/-5.2	-4.56/-6.81	-4.61/-5.56	-4.56/-8.31	-9.89/-8.33	-3.86/-6.56	-3.35/-5.99	-5.43/-3.25
Θ(67.5°)	-4.07/-3.39	-4.25/-5.15	-4.4/-2.92	-5.25/-2.73	-5.06/-2.53	-2.26/-3.88	-3.52/-1.09	-2.25/-1.77	-2.54/-3.23	-1.34/-5.6	-6.59/-5.22	-2.21/-0.9	2.434.88	-2.58/-6.66	-2.58/-4.17	-3.53/-1.91	-4.68/-3.16	-4.68/-6.77	-11.01/-12.72	-7.37/-4.11	-4.34/-3.95	-6.78/-5.6	-3.13/-5.54	
Θ(75°)	-3.07/-3.55	-4.15/-3.8	-3.29/-3.16	-0.91/-2.35	-5.72/-5.39	-2.4/-5.62	-7.46/-3.75	-2.05/-2.1	-2.05/-4.45	-1.42/-4.47	-6.54/-4.09	-2.86/-2.27	-2.58/-5.12	0.613/8.1	2.2/-0.52	-5.29/-2.98	0.491/0.8	2.28/-1.19	-1.3/-3.72	-16.08/-11.88	-8.46/-6.28	-5.84/-4.98	-6.51/-5.23	-2.95/-3.71
Θ(82.5°)	-3.13/-5.53	-4.25/-2.05	-2.46/-3.43	-2.29/-3.83	-6.08/-4.77	-2.81/-3.9	-3.97/-1.17	-2.55/-4.34	-2.72/-3.85	-6.24/-5.71	-2.52/-3.92	-4.27/-5.52	-1.55/-1.32	0.68/-3.1	-9.6/-2.47	1.050/92	-2.45/-2.21	-2.78/-4.88	-12.24/-18.54	-9.84/-6.52	-5.16/-5.82	-7.48/-5.32	-3.31/-3.64	
Θ(90°)	-4.95/-6.77	-4.3/-2.07	-1.51/-3.71	-1.44/-3.88	-5.15/-7.9	-4.69/-3.36	-6.02/-4.9	-3.83/-2.19	-3.02/-5.79	-2.95/-2.33	-5.85/-6.48	-4.95/-5.59	-8.73/-3.8	-4.02/-0.7	-11.48/-6.66	-16.45/-9.19	-2.36/-2.7	-9.88/-8.33	-6.86/-7.77	-12.57/-15.31	-11.45/-6.18	-5.59/-9.31	-4.56/-5.37	-3.37/-3.75
Θ(97.5°)	-5.93/-8.73	-5.86/-2.53	-1/-4.21	-6.29/-3.89	-4.29/-5.03	-5.24/-4.05	-7.12/-4.14	-3.87/-3.63	-2.1/-7.81	-3.33/-0.77	-5.26/-7.54	-10.35/-8.35	-13.19/-10.06	-6.1/-0.84	-0.89/-7.3	-13.75/-11.09	-6.25/-10.14	-15.01/-17.82	-12.27/-10.3	-14.81/-11.91	-12.46/-6.91	-5.52/-7.68	-4.88/-5	-4.03/-3.62
Θ(105°)	-6.38/-11.04	-4.79/-3.78	-1.59/-4.05	-6.61/-3.56	-3.42/-5.2	-6.51/-5.53	-5.97/-9.45	-4.33/-4.24	-3/-6.72	-6.12/-6.88	-6.28/-7.31	-12.48/-9.37	-11.46/-7.59	-8.7/-1.6	-3.97/-10.88	-7.73/-6.67	-4.08/-6.54	-6.76/-8.5	-7.91/-13.22	-18.18/-14.02	-19.05/-5.92	-8.81/-9.07	-3.39/-3.72	-4.3/-4.2
Θ(112.5°)	-9.48/-12.32	-5.25/-2.93	-2.99/-7.08	-8.33/-4.46	-5.34/-9.65	-11.63/-7.76	-8.31/-5.37	-4.76/-4.95	-7.94/-6.95	-11.63/-7.77	-8.31/-10.63	-11.67/-11.99	-11.07/-7.26	-12.97/-7.94	-15.83/-7.7	-10.29/-9.19	-7.18/-11.91	-14.88/-10.5	-8.41/-17.91	-17.37/-12.75	-13.05/-10.42	-4.75/-3.62	-5.49/-6.33	
Θ(120°)	-14.12/-10.11	-8.11/-5.75	-9.82/-10.82	-10.22/-9.02	-11.01/-12.91	-14.79/-13.87	-14.11/-7.73	-9.65/-6.67	-13.44/-6.84	-14.39/-9.79	-12.2/-15.29	-18.02/-13.93	-16.13/-8.39	-8.58/-7.39	-18.85/-8.63	-14.56/-10.7	-12.66/-10.32	-10.97/-18.19	-13.08/-18.66	-17.62/-19.01	-16.77/-8.24	-16.7/-9.9	-7.7/-6.44	-7.47/-5.3
Θ(127.5°)	-17.24/-10.46	-12.37/-11.67	-12.3/-9.86	-11.77/-15.38	-10.74/-9.86	-13.56/-9.67	-8.02/-8.54	-12.71/-7.79	-18.46/-7.28	-18.02/-13.31	-19.04/-18.46	-19.78/-19.04	-15.15/-18.71	-5.48/-4.79	-14.79/-11.7	-10.69/-6.95	-9.03/-9.05	-12/-17.76	-10.37/-9.5	-15.05/-18.54	-13.75/-15.98	-12.67/-8.27	-12.69/-8.81	-16.57/-6.93
Θ(135°)	-15.95/-17.35	-10.74/-10.02	-8.88/-11.42	-10.27/-8.19	-12.41/-19	-16.78/-11.15	-13.71/-12.95	-9.66/-10.13	-11.75/-12.36	-16.34/-19.14	-16.97/-19.21	-19.36/-14.94	-9.42/-8.14	-17.74/-17.97	-14.2/-15.76	-18.51/-11	-15.45/-17.62	-13.81/-7.34	-10.13/-17.45	-18.06/-12.35	-17.33/-18.16	-12.29/-9.34	-12.59/-8.76	-11.67/-15.68
Θ(142.5°)	-18.09/-18.82	-17.12/-18.58	-19.02/-10.12	-9.02/-11.57	-15.32/-18.49	-17.15/-12.04	-9.31/-13.7	-14.73/-12.01	-12.9/-18.32	-11.36/-14.93	-17.24/-13.32	-11.97/-12.04	-17.01/-10.55	-10.07/-13.61	-18.98/-17.48	-10.54/-12.82	-18.19/-13.01	-13.41/-18.68	-12.91/-13.56	-12.54/-19	-13.82/-13.62	-11.21/-10.16	-13.61/-11.56	-10.35/-17.55
Θ(150°)	-18.2/-18.48	-18.47/-13.64	-14.79/-16.29	-16.32/-13.41	-12.16/-11.14	-13.26/-13.72	-15.03/-18.88	-16.8/-12.44	-11.43/-11.08	-14.28/-13.35	-14.38/-19.1	-16.03/-9.29	-13.92/-19.1	-17.25/-15.03	-18.88/-18.62	-19.38/-13	-10.43/-11.36	-17.35/-15.92	-17.94/-17.32	-17.06/-10.6	-9.91/-10.32	-13.79/-18.01	-12.49/-10.34	-15.6/-18.94
Θ(157.5°)	-17.08/-15.08	-14.65/-14.67	-16.13/-16.58	-16.66/-17.85	-15.08/-13.86	-14.93/-14.63	-14.99/-13.15	-11.46/-10.55	-14.61/-18.1	-17.67/-10.57	-16.04/-14.59	-14.32/-13.71	-12.51/-18.56	-17.59/-10.62	-10.95/-14.96	-18.28/-18.52	-15.2/-12.14	-11.79/-13.89	-18.31/-15.02	-11.64/-11.37	-16.79/-18.63	-17.33/-18.43	-18.21/-14.34	-15.18/-17.8
Θ(165°)	-10.66/-11.85	-14.57/-15.67	-13.5/-12.49	-13.37/-11.54	-11.64/-11.8	-13.13/-16	-16.12/-15.89	-14.69/-12.28	-10.91/-13.01	-17.52/-19.17	-18.21/-18.15	-17.83/-17.49	-18.72/-18.03	-17.52/-18.37	-18.31/-13.75	-10.79/-10.36	-11.47/-13.38	-16.47/-17.45	-17.53/-15.04	-13.22/-14.63				



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

Θ(180°)	-9.44/-11.36	-11.91/-11.38	-11.89/-11.96	-12.25/-12.75	-12.16/-12.06	-11.09/-12.09	-12.9/-12.87	-15.69/-15.4	-15.22/-15.84	-17.74/-18.04	-18.21/-18.59	-18.09/-17.67	-18.88/-18.07	-18.23/-17.31	-14.82/-19.19	-16.02/-15.97	-17.25/-16.51	-16.74/-16.41	-16.36/-16.11	-14.43/-12.99	-12.22/-10.68	-9.91/-10.86	-11.02/-10.03	-9.35/-9.83
Freq(Hz)	6.9953Pol.	ThetaAnt. 1																						
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-2.45/-2.11	-1.73/-1.46	-2.04/-2.07	-2.5/-3.23	-4.21/-5.76	-7.01/-8.88	-12.09/-18.3	-18.29/-18.42	-12.31/-9.61	-7.22/-5.97	-4.36/-3.05	-2.27/-1.95	-1.42/-0.93	-0.86/-1.74	-2.07/-2.21	-3.1/-5.08	-6.33/-9.52	-12.19/-13.85	-16.73/-13.88	-11.55/-9.98	-7.86/-6.59	-6.2/-5.64	-4.84/-4.3	-4.06/-3.08
Θ(7.5°)	-2.14/-3.79	-2.82/-1.79	-1.82/-2.01	-2.26/-3.39	-3.74/-5.82	-7.17/-7.69	-8.59/-10.67	-11.92/-11.8	-11.03/-9.4	-7.8/-7.65	-6.65/-5.84	-4.46/-3.57	-2.64/-3.03	-3.52/-3.79	-5.39/-6.12	-7.4/-8.73	-8.78/-10.82	-13.87/-17.52	-19.47/-13.05	-11.84/-11.24	-7.99/-7.54	-6.68/-5.57	-5.08/-4.69	
Θ(15°)	-3.34/-2.73	-1.82/-1.45	-1.34/-1.77	-2.54/-2.51	-3.16/-2.19	-4.08/-4.8	-7.02/-7.84	-8.35/-8.34	-9.18/-11.35	-11.1/-11.63	-11.78/-11.69	-9.88/-8.36	-7.99/-7.99	-8.79/-9.89	-7.02/-7.31	-7.43/-10.14	-12.21/-14.99	-15.05/-12.86	-10.56/-12.18	-17.95/-19.05	-12.71/-11.07	-9.03/-7.92	-7.02/-5.12	-3.87/-3.32
Θ(22.5°)	-6.25/-3.95	-3.28/-2.98	-2.83/-2.52	-2.71/-3	-3.34/-3.85	-4.59/-4.48	-3.83/-5.11	-5.74/-5.97	-9.21/-6.16	-9.63/-11.54	-17.59/-14.63	-12.75/-11.31	-6.72/-7.76	-8.21/-9.14	-13.22/-16.17	-17.26/-18.63	-17.97/-13.19	-8.45/-8.59	-11.35/-11.59	-13.5/-19.1	-10.25/-6.72	-6.64/-6.47	-5.57/-6.2	
Θ(30°)	-6.12/-4.24	-4.03/-4.36	-4.51/-5.17	-4.56/-3.2	-2.06/-1.32	-2.75/-3.75	-3.27/-2.41	-4.07/-3.41	-4.64/-7.46	-8.44/-9.03	-11.99/-10.41	-11.99/-18.13	-19.56/-15.52	-9.61/-9.25	-8.3/-9.34	-11.05/-18.38	-16.88/-17.91	-13.86/-9.7	-8.55/-8.05	-11.73/-9.43	-10.44/-12.93	-9.31/-5.78	-7.23/-10.17	-8.11/-8.57
Θ(37.5°)	-7.09/-6.87	-6.08/-5.22	-4.93/-5.4	-5.53/-4.88	-4.59/-2.82	-1.2/-2.07	-4/-1.99	-1.51/-1.4	-2.56/-1.89	-6.56/-8.18	-6.61/-11.67	-10.82/-10.15	-5.79/-5.71	-4.69/-2.14	-3.94/-9.48	-16.31/-10.32	-6.11/-7.76	-8.42/-7.42	-8.52/-3.73	-5.57/-5.1	-12.22/-5.19	-5.77/-7.77	-8.02/-8.01	-7.37/-6.95
Θ(45°)	-6.48/-4.34	-4.14/-4.62	-5.68/-6.96	-5.88/-6.06	-3.97/-3	-2.56/-1.02	-2.07/-3.02	-2.51/-0.68	-0.02/-1.63	-3.42/-5.64	-5.26/-7.44	-4.09/-6.37	-4.27/-1.07	0.170/98	-1.27/-3.07	-7.32/-9.7	-6.4/-6.82	-5.52/-4.01	-3.62/-4.97	-9.08/-6.27	-6.97/-3.64	-6.3/-6.08	-6.18/-7.46	-5.27/-5.44
Θ(52.5°)	-3.57/-4.42	-6.98/-4.61	-5.75/-7.27	-4.83/-3.46	-4.66/-3.05	-2.47/-3.84	-2.76/-0.56	-0.12/-1.3	-1.97/-2.22	-4.83/-3.44	-1.61/-10.24	-5.06/-0.36	-0.05/-1	-0.44/-2.51	-6.76/-8.07	-4.42/-2.51	-2.71/-8.2	-0.93/-2.85	-4.08/-10.22	-5.05/-4.64	-5.89/-4.37	-9.26/-4.19	-5.94/-2.7	
Θ(60°)	-2.83/-2.94	-1.94/-1.4	-5.65/-3.72	-3.05/-1.9	-2.62/-5.01	-3.44/-2.54	-2.01/-4.51	-4.55/-5.55	-2.02/-0.57	-2.99/-0.46	-5.56/-5.25	-9.24/-17.26	-7.34/-9.92	0.452/99	1.29/-2.28	-8.57/-8.16	-6.98/-8.15	-3.84/-6.87	-1.84/-5.24	-5.11/-6.96	-4.4/-5.85	-6.46/-7.34	-6.24/-2.5	-4.26/-2.44
Θ(67.5°)	-1.59/-1.3	-2.52/-3.75	-3.89/-3.93	-1.49/-0.59	-2.21/-4.25	-5.08/-3.9	-3.44/-3.21	-3.35/-0.83	-2.51/-4.07	-3.50/-9.1	-7.08/-3.58	-15.25/-11.95	-7.86/-2.22	2.024/72	2.96/-0.91	-4.49/-9.85	-11.58/-13.3	-3.64/-5.91	-2.65/-4.86	-10.43/-6.29	-5.1/-6.71	-6.10/-6	-2.83/-2.29	-1.28/-0.63
Θ(75°)	-2.39/-2.17	-5.75/-6.63	-4.08/-2.02	-1.3/-0.5	-1.75/-3.84	-5.86/-3.27	-3.64/-4.57	-2.46/-2.46	-1.05/-1.41	-7.1/-0.57	-7.15/-4.64	-12.98/-8.26	-11.47/-6.27	1.44/76	3.73/-1.07	-2.93/-6.89	-6.48/-1.87	-3.45/-3.1	-1.61/-7.2	-6.27/-5.57	-6.22/-6.96	-2.58/-2.16	-0.83/-1.62	
Θ(82.5°)	-3.64/-3.54	-5.34/-4.3	-4.68/-2.89	-2.05/-0.81	-2.04/-5.11	-5.66/-4.04	-3.52/-3.08	-3.09/-1.99	-1.78/-2.91	-6.92/-2.49	-4.47/-6.3	-11.79/-6.35	-11.5/-6.71	0.683/39	1.21/-3.88	-4.82/-7.82	-3.54/-0.91	-2.92/-2.97	-0.58/-7	-9.77/-6.97	-5.74/-5.22	-8.16/-4.63	-3.12/-2.75	-0.82/-2.39
Θ(90°)	-4.05/-3.95	-4.99/-3.31	-6.46/-4.51	-5.15/-1.77	-2.59/-6.84	-7.57/-4.55	-4.56/-4.05	-2.21/-3.26	-2.29/-5.55	-9.28/-3.54	-3.91/-5.5	-11.55/-5.33	-9.86/-7.52	-1.48/-1.38	-1.44/-6.56	-6.59/-13.94	-5.23/-2.36	-6.96/-7.08	-2.22/-7.7	-12.57/-10.56	-5.19/-6.69	-8.92/-4.32	-3.97/-3.02	-2.39/-3.77
Θ(97.5°)	-4.6/-4.21	-4.71/-3.23	-7.21/-7.17	-4.23/-4.7	-4.51/-7.7	-3.17/-8.74	-5.67/-4.05	-6.28/-5	-3.54/-4.78	-2.26/-3.07	-6.18/-5.02	-3.54/-7.3	-14.3/-8.6	-11.87/-8.94	-5.57/-2.48	-1.74/-4.16	-16.21/-18.09	-10.78/-9.17	-13.39/-13.11	-8.93/-9.23	-3.77/-9.42	-8.79/-6.67	-3.83/-4.7	-2.98/-6
Θ(105°)	-7.13/-5.92	-5.77/-5.29	-4.85/-7.25	-8.16/-5.67	-6.39/-6.03	-6.37/-5.66	-9.81/-8.1	-5.39/-6.18	-3.67/-5.38	-5.86/-5.91	-4.77/-6.31	-13.1/-12.98	-16.68/-13.69	-11.39/-4.57	-2.81/-3.34	-15.89/-17.73	-10.77/-10.05	-11.71/-17.43	-13.34/-14.12	-15.04/-11.4	-4.38/-13.3	-10.86/-9.07	-4.3/-5.26	-3.53/-6.59
Θ(112.5°)	-9.98/-9.17	-5.67/-6.35	-6.23/-6.28	-7.04/-6.63	-7.75/-7.56	-5.82/-10.13	-10.28/-10.23	-6.29/-8.15	-5.49/-5.44	-5.64/-8.8	-8.17/-9.59	-13.84/-13.74	-12.54/-12.07	-11.03/-11.53	-8.86/-9.52	-15.83/-19	-13.79/-13.18	-8.85/-18.09	-9.93/-18.37	-14.26/-12.12	-10.34/-12	-7.54/-11.1	-6.32/-6.71	-5.23/-7.17
Θ(120°)	-10.25/-11.12	-6.98/-6.18	-7.72/-7.58	-6.8/-6.51	-7.98/-12.36	-10.69/-8.66	-6.2/-11	-7.47/-7.3	-6.13/-6.93	-7.29/-10.65	-18.69/-10.76	-13.93/-15.97	-12.41/-14.61	-11.57/-14.42	-8.94/-9.45	-15.89/-13.93	-13.66/-18.02	-18.86/-19.1	-17.67/-18.45	-19.23/-9.18	-17.27/-7.56	-8.35/-12.68	-7.84/-8.26	-6.75/-8.85
Θ(127.5°)	-9.28/-10.67	-6.59/-5.34	-6.96/-8.92	-8.36/-8.57	-10.09/-16.29	-13.11/-13.1	-13.17/-10.69	-12.76/-9.16	-9.12/-10.8	-11.32/-14.35	-18.01/-19.29	-14.27/-17.31	-18.7/-18.08	-15.58/-7.58	-10.78/-11.06	-10.88/-11.12	-13.75/-12.54	-15.76/-14.9	-15.17/-18.99	-17.62/-12.88	-17.9/-12.69	-9.03/-16.65	-10.52/-8.51	-14.21/-11.97
Θ(135°)	-11.01/-10.79	-8.81/-8.04	-9.74/-10.72	-13.81/-9.17	-17.34/-14.75	-11.99/-12.3	-9.17/-14.4	-18.41/-15.79	-13.08/-14.71	-18.17/-11.69	-18.73/-19.04	-17.62/-17.87	-14.07/-13.62	-18.27/-15.81	-17.63/-17.82	-18.22/-12	-19.25/-18.92	-16.11/-11.75	-15.86/-16.23	-18.97/-11.07	-15.08/-19.24	-15.17/-11.7	-16.21/-11.7	
Θ(142.5°)	-11.26/-18.12	-11.41/-7.36	-9.55/-14.77	-13.75/-15.99	-14.11/-12.74	-10.41/-11.48	-14.76/-18.92	-18.73/-12.84	-8.98/-12.21	-18.78/-13.19	-15.91/-18.44	-15.85/-15.16	-14.69/-17.41	-19.14/-13.43	-13.21/-13.85	-19.06/-10.9	-12.89/-11.46	-10.83/-18.12	-18.42/-18.77	-11.79/-18.12	-15.22/-17.44	-12.49/-17.65	-12.22/-15.46	
Θ(150°)	-17.56/-19.82	-18.11/-16.73	-18.68/-19.13	-18.74/-18.48	-17.01/-15.8	-16.67/-15.61	-15.07/-13.29	-15.19/-17.58	-17.64/-18.71	-16.06/-12.69	-12.69/-14.06	-18.01/-18.2	-14.61/-14.44	-14.21/-16.31	-18.31/-18.53	-17.94/-12.95	-10.78/-15.85	-18.48/-18.46	-16.22/-10.97	-12.09/-18.14	-15.14/-16.38	-16.39/-14.41	-16.01/-17.87	-18.65/-18.92
Θ(157.5°)	-17.65/-19.09	-17.53/-16.63	-18.57/-14.49	-14.32/-18.4	-18.87/-19.05	-18.32/-18.55	-18.56/-17.71	-16.74/-14.36	-15.09/-17.77	-18.88/-18.53	-15.27/-12.08	-12.25/-10.8	-11.59/-16.63	-17.9/-18.64	-13.12/-17.15	-19.85/-18	-17.86/-16.88	-16.44/-18.94	-17.72/-19.02	-13.57/-12.28	-18.06/-18.59	-18.13/-16.15	-14.47/-15.33	-17.82/-18.95
Θ(165°)	-13.07/-13.65	-14.05/-13.83	-15.01/-15.15	-18.65/-17.99	-18.39/-17.81	-18.11/-18.74	-18.17/-7.85	-15.41/-13.67	-17.82/-14.44	-17.85/-17.66	-18.68/-19.39	-17.69/-18.25	-18.85/-19.49	-18.21/-17.14	-13.21/-10.62	-19.02/-11.92	-15.53/-10.96	-8.84/-18.48	-9.08/-11.05	-15.97/-17.7	-16.31/-18.04	-16.71/-16.33	-15.92/-14.56	
Θ(172.5°)	-17.9/-17.95	-17.62/-17.74	-17.51/-18.34	-16.8/-16.34	-14.41/-13.26	-11.69/-12.4	-12.6/-14.13	-13.66/-17.76	-18.91/-18.01	-15.3/-15.09	-14.6/-16.36	-18.68/-18.54	-18.72/-18.15	-15.65/-16.69	-14.56/-16.29	-15.95/-15.33	-18/-17.8	-19.02/-18.97	-18.49/-16.22	-15.58/-16.93	-16.39/-17.8	-17.5/-18.66	-18.67/-18.13	-19.31/-18.64
Θ(180°)	-19.19/-18.49	-17.76/-18.88	-18.01/-14.78	-15.69/-15.18	-16.62/-16.4	-17.33/-18.73	-17.99/-16.4	-19/-19.1	-17.64/-18.72	-18.42/-17.78	-17.16/-14.97	-14.72/-16.29	-18.66/-19.02	-18.96/-17.12	-17.9/-16.62	-13.84/-13.85	-12.69/-11.69	-11.15/-11.88	-10.49/-11.39	-13.35/-14.8	-13.75/-13.69	-14.38/-15.23	-15.41/-15.49	-17.3/-19.19
Freq(Hz)	2.45GPol.	PhiAnt. 2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-16.3/-12.59	-9.34/-7.05	-5.34/-4	-2.87/-1.94	-1.17/-0.61	-0.31/-0.23	-0.31/-0.49	-0.84/-1.38	-2.27/-3.31	-4.62/-6.37	-8.83/-12.09	-16.31/-18.95	-16.03/-12.7	-10.16/-8.44	-7.15/-6.04	-5.02/-4.15	-3.4/-2.87	-2.54/-2.45	-2.45/-2.51	-2.6/-2.76	-3.08/-3.54	-4.27/-4.59	-7.5/-10.39	-14.28/-17.37
Θ(7.5°)	-15.84/-13.23	-10.67/-7.4	-5.35/-3.66	-2.25/-1.08	-0.160/-46	0.790/84	0.740/5	0.04/-0.68	-1.71/-2.99	-4.64/-6.78	-9.65/-13.65	-17.69/-19.21	-17.76/-14.95	-12.23/-10.53	-8.27/-8.23	-7.16/-6.2	-4.15/-3.95	-3.89/-3.89	-3.95/-4.09	-4.31/-4.65	-5.22/-6.39	-7.93/-10.31	-12.79/-15.57	
Θ(15°)	-17.92/-15.99	-12.72/-9.62	-6.88/-4.53	-2.67/-1.19	-0.170/-49	0.850/98	0.960/79	0.37/-0.31	-1.36/-2.78	-4.66/-7.02	-9.96/-13.61	-18.7/-18.74	-18.84/-18.13	-14.4/-12.12	-10.74/-9.54	-8.29/-7.07	-5.99/-5.1	-4.49/-4.24	-4.18/-4.33	-4.68/-5.24	-5.93/-6.77	-7.68/-8.75	-10.3/-12.29	-14.63/-17.05
Θ(22.5°)	-18.86/-18.1	-18.91/-13.78	-8.95/-5.44	-2.94/-1.2	-0.170/-44	0.81/01	1.080/99	0.6/-0.09	-1.24/-2.84	-5.04/-7.66	-10.59/-14.88	-16.98/-18.62	-18.86/-16.02	-12.61/-6.18	-9.32/-8.11	-6.77/-5.56	-4.57/-3.91	-3.57/-3.47	-3.6/-3.96	-4.67/-5.95	-7.95/-10.37	-12.22/-16.96	-13.62/-14.97	-17.63/-18.75
Θ(30°)	-19.15/-18.58	-18.49/-18.5	-11.1/-5.9	-2.82/-1	-0.104/-4	0.730/95	1.030/98	0.64/-0.11	-1.37/-3.19	-5														



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

Θ(22.5°)	-3.48/-2.21	-1.22/-1.19	-1.33/-1.27	-1.08/-1.18	-2.03/-3.16	-3.52/-4.21	-5.85/-9.23	-12.41/-11.73	-10.64/-11.04	-11.34/-9.86	-5.97/-4.53	-3.83/-2.78	-1.72/-1.35	-1.38/-0.92	-0.11/-0.61	0.87/0.16	-0.91/-1.48	-1.64/-2.26	-3.13/-3.39	-4.67/-6.24	-8.54/-10.17	-11.81/-11.15	-7.98/-5.19	-3.74/-3.77
Θ(30°)	-8.57/-6.18	-4.34/-4.62	-4.11/-3.1	-3.56/-4.05	-3.81/-3.32	-2.44/-2.76	-4.37/-1.75	-10.09/-11.2	-10.15/-9.16	-8.89/-9.25	-7.67/-5.92	-5.36/-4.3	-3.54/-3	-2.68/-2.58	-2.1/-1.23	-0.5/-0.49	-1.04/-2.55	-2.99/-1.8	-2.29/-4.31	-5.89/-6.44	-7.6/-9.54	-9.68/-10.38	-12.82/-12.6	-9.16/-9.84
Θ(37.5°)	-14.27/-9.73	-9.21/-12.09	-9.81/-7.72	-8.88/-5.43	-3.58/-2.76	-2.83/-2.75	-4.84/-6.01	-9.28/-10.8	-10.28/-12.48	-18.55/-13.36	-13.12/-12.89	-11.89/-10.33	-6.98/-5.66	-5.55/-4.46	-4.3/-3.35	-2.93/-0.71	-1.23/-2.39	-1.99/-1.67	-2.03/-3.21	-4.76/-5.54	-6.32/-8.46	-13.82/-17.75	-19.39/-17.41	-18.39/-15.55
Θ(45°)	-18.06/-11.65	-7.58/-9.33	-11.21/-12.21	-11.63/-8.12	-5.43/-2.55	-3.02/-5.25	-4.81/-4.06	-6.69/-8.93	-9.89/-18.54	-17.99/-14.37	-13.31/-13.93	-16.85/-13.47	-17.62/-9.3	-7.74/-4.54	-4.55/-3.78	-4.59/-2.54	-0.52/-0.41	-1.7/-0.77	-0.83/-2.63	-4.04/-2.78	-2.26/-1.19	-8.26/-18.64	-17.98/-17.76	-16.24/-16.05
Θ(52.5°)	-17.07/-16.11	-12.85/-15.06	-19.05/-14.77	-8.28/-6.56	-4.89/-2.87	-4.61/-2.8	-7.2/-2.41	-6.87/-5.87	-5.55/-9.62	-8.78/-8.25	-7.14/-6.87	-4.82/-6	-5.4/-2.29	-3.05/-2.01	0.16/-0.85	-3.57/-4.38	-3.75/-5.66	-4.37/-1.39	-2.04/-3.62	-4.03/-8.27	-1.75/-14.03	-9.95/-13.98		
Θ(60°)	-18.51/-15.49	-19.06/-18.56	-8.69/-9.61	-7.35/-7.12	-4.4/-3.2	-5.38/-8.4	-6.84/-4.64	-6.61/-6.19	-4.3/-6.06	-6.08/-7.57	-10.37/-11.68	-5.99/-6.26	-7.33/-10.97	-6.07/-5.55	-3.27/-1.02	-2.51/-2.03	-3.83/-2.11	-3.44/-3.15	-3.22/-4.31	-5.51/-6.2	-0.99/-4.11	-10.14/-11.43	-7.01/-10.16	
Θ(67.5°)	-17.81/-9.54	-7.77/-9.84	-4.01/-7.37	-7.46/-3.49	-4.31/-4.98	-10.08/-11.54	-6.68/-4.68	-4.89/-4.04	-3.11/-4.89	-5.68/-9.78	-12.59/-10.23	-5.84/-4.89	-9.18/-8.99	-8.42/-10.41	-5.21/-0.58	-1.23/-4.29	-6.4/-4.04	-1.45/-1.11	-2.57/-5.1	-4.46/-1.98	-1.67/-1.66	1.33/-4.36	-6.8/-4.13	-3.63/-5.24
Θ(75°)	-10.51/-4.83	-5.19/-10.17	-5.92/-6.58	-7.5/-3.45	-7.05/-7.16	-11.98/-15.67	-4.77/-3.57	-3.35/-5.22	-5.94/-9.05	-11.11/-1.88	-4.85/-4.71	-9.36/-5.9	-7.92/-12.64	-8.67/-2.43	-2.26/-3.57	-6.9/-4.71	-2.14/-2.1	-0.5/-2.09	-1.64/-0.32	-0.14/-2.28	1.4/-6.9	-8.75/-3.4	-2.95/-3.03	
Θ(82.5°)	-9.29/-4	-5.88/-11.78	-8.32/-5.38	-7.58/-4.17	-11.1/-12.52	-16.85/-12.6	-8.13/-7.11	-6.59/-4.97	-4.72/-5.47	-6.79/-11.54	-13.55/-8.96	-5.54/-6.67	-9.45/-5.57	-8.02/-12.36	-7.92/-5.19	-4.92/-6.81	-8.68/-3.16	-3.71/-3.05	-0.77/-1.29	-0.85/-0.54	-0.81/-3.6	-0.25/-10.63	-8.87/-3.28	-3.07/-2.14
Θ(90°)	-8.76/-7.74	-8.8/-10.92	-9.64/-7.47	-13.04/-6.67	-12.07/-12.74	-14.51/-13.56	-9.12/-9.79	-10.47/-7.21	-6.44/-5.72	-5.9/-12.27	-11.99/-8.8	-6.7/-10.3	-11.93/-6.48	-8.08/-10.85	-7.32/-7.28	-8.76/-10.08	-9.97/-3.7	-5.7/-4.8	-1.68/-3.29	-1.94/-1.92	-1.97/-0.53	-2.96/-9.63	-6.53/-3.9	-3.07/-1.04
Θ(97.5°)	-9.21/-17.8	-13.02/-13.4	-9.18/-8.3	-18.25/-9.83	-15.03/-10.4	-10.93/-13.76	-12.55/-17.01	-15.68/-8.43	-6.88/-6.04	-6.51/-11.62	-11.19/-6.81	-8.02/-10.57	-10.09/-6.91	-10.44/-14.03	-6.9/-7.44	-7.35/-13.4	-13.43/-5.32	-7.59/-6.56	-7.28/-6	-4.32/-4.1	-4.25/-3.78	-6.21/-6.78	-4.48/-6.94	-6.1/-7.6
Θ(105°)	-17.41/-8.95	-14.9/-11.35	-14.17/-13.34	-14.02/-10.89	-14.89/-10.64	-9.91/-17.76	-13.94/-14.52	-15.85/-8.87	-8.77/-13.82	-16.66/-16.13	-11.42/-7.22	-11.17/-15.97	-12.65/-6.29	-15.21/-11.87	-13.34/-15.57	-16.66/-14.16	-16.6/-11.73	-14.77/-8.67	-10.46/-7.96	-11.17/-10.48	-9.04/-6.85	-5.66/-5.17	-8.65/-7.38	-5.81/-8.5
Θ(112.5°)	-18.02/-13.44	-19.24/-17.97	-18.71/-11.67	-11.85/-18.2	-12.47/-14.72	-11.31/-18.02	-13.97/-10.76	-12.6/-12.9	-9.24/-16.66	-18.24/-13.73	-8.44/-7.33	-9.89/-15.97	-8.91/-9.62	-12.08/-17	-13.31/-11.33	-7.9/-14.48	-14.06/-14.01	-6.92/-7.07	-8.55/-9.38	-11.2/-7.84	-4.97/-4.03	-6.92/-8.24	-6.8/-6.86	-14.07/-10.67
Θ(120°)	-11.93/-13.01	-16.14/-10.45	-9.74/-11.91	-16.16/-15.68	-11.33/-15.59	-15.12/-15.69	-16.89/-18.59	-16.64/-19.52	-17.04/-16.07	-10.89/-8.96	-7.25/-9	-8.95/-9.1	-8.63/-11.27	-11.82/-15.59	-13.01/-12.12	-10.04/-11.74	-18.12/-16.73	-7.3/-10.15	-11.34/-13.37	-14.67/-13.75	-9.89/-7.8	-13.39/-18.91	-8.89/-6.42	-11.35/-8.48
Θ(127.5°)	-17.81/-14.25	-12.17/-10.45	-12.14/-15.05	-18.51/-15.07	-10.18/-11.69	-18.17/-19.17	-15.63/-18.81	-14.73/-14.76	-15.95/-15.65	-12.17/-11.39	-16.81/-13.61	-12.65/-8.29	-15.21/-11.87	-13.34/-15.57	-16.66/-14.16	-16.6/-11.73	-18.87/-12.82	-9.08/-11.78	-10.28/-14.91	-15.22/-15.46	-13.02/-13.98	-19.09/-17.6	-10.84/-11.67	-19.03/-14.48
Θ(135°)	-18.86/-18.35	-12.37/-12	-13.92/-15.48	-15.55/-16.6	-18.72/-18.71	-18.3/-18.93	-19.35/-16.77	-18.55/-16.69	-13.19/-12.44	-14.31/-16.3	-16.35/-16.94	-9.24/-8.68	-13.21/-17.76	-17.32/-15.68	-10.96/-12.03	-13.46/-12.58	-18.32/-14.11	-11.53/-18.86	-18.61/-18.43	-19.11/-11.83	-8.84/-10.67	-11.43/-12.1	-18.09/-16.1	-15.4/-18.53
Θ(142.5°)	-11.27/-8.4	-10.95/-14.4	-14.88/-18.15	-18.67/-15.87	-13.52/-12.82	-15.11/-19.32	-18.44/-18.93	-19.31/-16.35	-12.57/-13.14	-18.75/-17.91	-14.57/-13.45	-11.74/-11.93	-15.38/-19.93	-18.76/-18.91	-16.26/-14.36	-13.34/-14.68	-13.51/-12.58	-15.74/-18.82	-19.07/-18.23	-18.51/-18.96	-19.11/-19.16	-18.25/-17.78	-18.67/-12.58	-11.59/-15.06
Θ(150°)	-18.43/-18.09	-17.71/-17.85	-18.79/-17.7	-12.62/-12.62	-12.19/-12.43	-13.94/-16.83	-18.38/-17.4	-18.38/-18.08	-19.55/-18.17	-16.78/-18.52	-18.31/-19.04	-18.94/-18.24	-19.91/-18.27	-17.96/-18.6	-18.83/-18.66	-18.28/-18.38	-19.32/-18.63	-18.19/-16.35	-19.32/-18.63	-14.11/-11.68	-18.19/-16.35	-11.12/-13.86	-14.26/-15.67	
Θ(157.5°)	-15.96/-18.88	-17.37/-15.12	-14.27/-14.82	-14.27/-13.78	-12.74/-11.63	-11.86/-12.84	-14.57/-14.54	-13.76/-12.55	-11.94/-11.08	-10.48/-9.42	-9.08/-8.22	-8.03/-9.83	-14.92/-18.29	-17.57/-15.73	-16.21/-15.26	-12.83/-11.37	-12.74/-16.45	-18.18/-18.74	-17.91/-18.37	-19.07/-17.72	-18.28/-18.97	-18.21/-15.86	-14.13/-11.63	-9.88/-10.73
Θ(165°)	-18.15/-18.83	-15.91/-13.63	-13.35/-13.6	-14.76/-15.21	-15.33/-16.34	-15.88/-17.3	-18.78/-17.4	-18.99/-18.53	-19.19/-18.03	-17.17/-8.4	-17.78/-18.81	-17.84/-17.37	-14.91/-14.29	-13.94/-13.18	-13.35/-13.49	-13.08/-13.69	-16.6/-18.35	-16.94/-18.34	-18.87/-16.3	-14.41/-14.68	-16.31/-18.53	-19.02/-18.13	-18.09/-19.1	-16.26/-17.18
Θ(172.5°)	-12.38/-11.7	-12.74/-13.29	-14.83/-15.99	-17.55/-19.03	-18.99/-17.8	-18.53/-17.92	-18.02/-19.02	-17.94/-15.81	-14.64/-13.88	-13.24/-13.74	-13.49/-13.56	-15.64/-16.21	-18.77/-18.81	-18.49/-18.75	-17.23/-18.62	-16.65/-15.6	-18.03/-18.55	-17.84/-17.77	-19.03/-15.49	-13.03/-11.95	-11.32/-10.62	-10.55/-10.42	-10.01/-10.15	-11.51/-12.88
Θ(180°)	-18.39/-18.88	-18.22/-18.28	-18.97/-18.7	-17.51/-19	-18.53/-19.23	-18.65/-18.01	-17.79/-17.63	-18.51/-18.53	-15.73/-13.39	-11.57/-11.01	-10.77/-10.41	-10.4/-10.8	-11.14/-11.09	-11.47/-12.27	-13.9/-15.64	-17.92/-18.86	-19.25/-18.36	-18.56/-17.63	-17.96/-18.41	-15.55/-15.16	-15.02/-14.03	-13.61/-15.29		
Freq(Hz)	5.3GPol	PhiAnt.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-9.59/-15.26	-17.86/-12.76	-8.11/-5.1	-3.15/-1.51	-0.580/2.3	1.1/-42	1.631/72	1.71/78	1.5/92	0.22/-0.91	-2.26/-3.58	-5.35/-7.88	-11.75/-15.51	-14.69/-9.98	-7.17/-5.16	-3.6/-2.15	-0.96/-0.11	0.51/1	1.51/79	1.71/98	0.26/-0.33	-0.87/-1.54	-2.53/-3.74	-5.32/-7.1
Θ(7.5°)	-6.94/-9.04	-14.22/-13.73	-10.12/-10.58	-2.06/-0.4	0.73/-15	2.04/-44	2.99/22	3.43/37	2.84/-12	1.28/20	-1.46/-3.66	-5.96/-9.99	-12.64/-17.38	-13.85/-8.99	-7.29/-5.73	-4.61/-3.05	-1.35/0	0.89/-176	2.33/-61	2.69/-248	1.95/-123	0.21/-145	-2.58/-3.61	-4.91/-6.3
Θ(15°)	-8.26/-9.23	-19.24/-14.79	-15.17/-6.53	-2.20/29	1.41/202	1.98/21	2.42/93	3.24/-18	2.34/-11	0.5/-15	-1.31/-3.02	-5.28/-6	-11.99/-18.42	-16.86/-12.33	-9.93/-8.73	-6.42/-3.2	-0.99/047	1.45/-33	2.83/03	3.13/-282	2.26/-155	0.64/-54	-2.07/-3.13	-4.84/-6.65
Θ(22.5°)	-6.14/-8.21	-11.41/-19	-15.94/-7.67	-3.75/-1.7	-0.28/0.54	1.19/-1.56	2.42/-2.83	2.69/-1.9	0.55/-0.42	-0.93/-1.11	-1.74/-3.17	-5.14/-7.83	-12.01/-17.43	-17.82/-18.08	-14.36/-12.44	-6.96/-3.36	-1.22/0.44	1.39/-165	1.49/-182	2.26/-2.68	2.71/-95	0.82/-0.68	-2.79/-5.2	-6.38/-6.18
Θ(30°)	-6.11/-8.6	-14.61/-18.26	-10.75/-8.6	-8.45/-6.02	-2.54/-0.9	0.58/2.52	3.52/-3.4	2.41/-03	-1.12/-85	-3.68/-3.36	-3.52/-4.36	-6.31/-9.12	-11.41/-10.29	-9.05/-9.66	-9.96/-9.93	-6.21/-3.05	-0.71/0.05	0.26/-126	1.68/0.87	0.07/-404	-0.32/0.2	0.25/-0.37	-1.78/-4.31	-7.98/-9.77
Θ(37.5°)	-8.16/-10.24	-19/-10.26	-7.61/-9.72	-12.53/-8.97	-4.31/-2.28	-0.02/-1.89	2.48/-22	0.85/-409	-2.44/-5.12	-6.87/-6.71	-4.79/-4.21	-6.47/-15.28	-18.31/-13.42	-10.59/-10.14	-12.28/-11.14	-8.39/-4	-3.08/-2.64	0.122/-19	2.92/-46	1.3/-0.01	-1.88/-3.03	-1.78/-0.88	-1.76/-1.93	-2.84/-7.4
Θ(45°)	-10.25/-17.59	-12.54/-7.65	-10.13/-11.44	-9.13/-6.68	-5.9/-1.66	1.49/209	1.58/1	-0.61/-172	-3.14/-16.4	-7.44/-6.99	-5.56/-5.13	-6.89/-17.13	-15.02/-10.82	-7.94/-8.05	-11.1/-5.6	-8.11/-4.46	-3.16/-2.39	-0.322/-1	1.93/-127	1.12/0.61	-1.41/-3.81	-4.09/-3.14	-3.67/-3.37	-3.27/-6.66
Θ(52.5°)	-19.23/-16.85	-18.31/-19.14	-16.31/-11.04	-8.97/-7.23	-3.16/-6.33	1.06/0.77	-0.38/-0.39	-2.07/-3.52	-3.63/-5.9	-7.97/-9.31	-7.12/-6.91	-11.03/-17.43	-16.66/-12.83	-10.39/-10.75	-16.13/-11.87	-8.76/-6.42	-6.22/-7.13	-4.45/-2.73	-0.68/-0.7	1.23/0.53	-1.43/-2.81	-2.25/-4.82	-9.73/-7.34	-4.26/-5.52
Θ(60°)	-12.74/-10.94	-14.09/-14.57	-7.98/-6.44	-7.58/-7.02	-3.21/-0.63	0.64/-0.46	-2.12/-2.67	-4.35/-6.01	-4.04/-5.43	-7.18/-9.24	-8.68/-6.61	-11.34/-16.32	-18.53/-14.21	-11.04/-8.77	-17.47/-17.71	-9.01/-6.1	-3.68/-2.67	-0.56/-1.21	-0.17/-1.4	-2.34/-1.12	0.01/-1.38	-4/-5.38	-6.03/-7.4	
Θ(67.5°)	-9.89/-10.52	-15.44/-10.88	-7.56/-5.75	-7.57/-7.34	-4.11/-1.1	-0.48/-1.48	-2.96/-4.09	-5.59/-7.51	-3.78/-4.27	-6.63/-9.42	-8.53/-7.2	-12.29/-18.75	-16.21/-13.25	-11.59/-14.15	-19.03/-12.38	-9.24/-9.55	-8.86/-8.48	-5.78/-5.11	-0.86/-0.52	0.25/-195	1.03/0.39	0.26/-1.66	-1.94/-3.52	-7.37/-7.1
Θ(75°)	-15.01/-13.66	-19																						



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

Θ(67.5°)	-3.12/2.63	-2.43/4.88	-10.03/-7.13	-7.84/-3.73	-2.01/-2.25	-4.4/-1.05	-3.77/-3.45	-3.75/-4.47	-4.21/-1.58	-2.01/-1.18	-0.33/-0.08	-0.87/-3.62	-3.62/-3.77	-3.26/-3.04	-2.57/-5	-3.87/-4.62	-7.13/-4.93	-1.58/0.88	1.36/1.07	-1.41/0.79	1.21/0.99	1.72/0.63	-1.59/-2.45	-2.66/-6.6
Θ(75°)	-1.18/-0.2	0.42/-8.9	-10.9/-5.94	-4.96/-3.4	-3.4/-7.3	-9.14/-2.75	-4.29/-3.43	-3.11/-4.05	-4.39/-2.4	-2.79/-2.48	-0.72/-0.01	-1.18/-2.46	-3.18/-3.27	-1.94/-2.43	-3.82/-4.58	-4.13/-5.22	-3.43/-5.54	-2.83/1.19	1.46/-0.47	-1.66/2.21	3.163.7	2.94/-1.63	-0.52/-0.28	-0.94/-3.4
Θ(82.5°)	-1.68/0.04	0.51/-1.86	-16.54/-7.41	-2.47/-1.5	-6.18/-5.38	-11.92/-4.22	-3.43/-5.44	-4.87/-5.48	-6.61/-4.7	-3.68/-2.6	-1.84/-2.23	-2.5/-3.04	-4.13/-3.33	-2.43/-0.95	-4.08/-4.09	-6.62/-6.06	-2.66/-6.98	-4.15/0.98	0.5/-1.29	-21/-46	2.83/0.5	1.16/-4.42	-3.32/-1.44	-0.78/-1.84
Θ(90°)	-1.95/-1.83	-0.78/-6.35	-14.65/-8.37	-4.37/-6.39	-10.13/-9.89	-11/-5.44	-3.03/-5.2	-5.59/-5.96	-7.72/-7.9	-6.12/-4.48	-3.63/-4.09	-2.87/-4.52	-4.69/-5.02	-3.78/-1.89	-4.47/-3.56	-6.2/-8.16	-4.15/-7.58	-7.86/-1.37	-1.79/-2.81	-4.37/-1.66	0.30/6.9	-2.62/-9.72	-4.96/-2.6	-1.8/-2.4
Θ(97.5°)	-3.6/-6.09	-3.68/-7.37	-11.84/-8.63	-5.42/-12.62	-11.08/-10.34	-10.88/-7.18	-6.11/-7.21	-8.86/-6.71	-8.87/-9.92	-6.36/-5.8	-6.05/-8.5	-4.6/-7.6	-8.61/-6.2	-5.22/-5.04	-4.96/-3.35	-7.62/-8.79	-7.96/-8.45	-11.77/-3.68	-3.65/-5.09	-10.01/-9.3	-5.78/-4.8	-6.42/-10.27	-5.65/-4.42	-1.1/-1.81
Θ(105°)	-5.42/-9.53	-6.91/-8.58	-8.32/-12.31	-12.33/-19.12	-10.26/-7.1	-11.74/-7.4	-9.52/-7.01	-9.4/-13.02	-4.79/-5.89	-8.71/-12.82	-18.97/-10.67	-4.4/-8.01	-10.51/-8.2	-5.15/-9.19	-4.59/-4.17	-7.62/-7.3	-15.85/-11.05	-5.97/-5.31	-11.83/-9.91	-8.09/-5.48	-6.39/-8.08	-7.76/-9.56	-4.14/-6.07	
Θ(112.5°)	-7.73/-12.02	-13.33/-16.79	-17.61/-18.18	-10.6/-9.33	-18.61/-8.81	-17.85/-5.9	-9.42/-10.42	-9.08/-17.92	-8.55/-6.38	-8.37/-10.04	-10.51/-6.25	-5.13/-10	-9.86/-8.99	-9.02/-11.16	-4.42/-4.39	-10.07/-16.13	-18.64/-13.26	-9.24/-8.8	-4.19/-5.75	-13.01/-6.61	-7.03/-5.98	-5.24/-9.54	-9.19/-15.83	-9.48/-11.07
Θ(120°)	-9.89/-7.35	-7.18/-11.36	-14.33/-16.83	-10.74/-11.57	-12.75/-11.38	-19.07/-11.38	-8.78/-16.33	-14.03/-12.97	-11.56/-13.04	-16.63/-12.65	-8.7/-6.19	-6.37/-10.06	-15.52/-11.4	-13.82/-13.86	-7.86/-10.47	-6.04/-15.53	-15.99/-18.36	-9.75/-17.73	-5.58/-9.09	-13.03/-7.85	-8.12/-6.7	-9.46/-13.61	-6.33/-8.19	-18.31/-12.92
Θ(127.5°)	-15.86/-11.8	-15.44/-16.36	-9.79/-9.47	-11.57/-15.04	-14.45/-8.16	-9.54/-14.75	-13.51/-18.57	-17.06/-15.94	-11.13/-7.45	-8.22/-9.26	-7.87/-10.71	-10.91/-17.98	-12.82/-13.93	-17.92/-14.84	-10.68/-9.51	-11.78/-8.54	-18.08/-19.19	-16.07/-18.24	-12.51/-16.99	-18.01/-11.06	-10.08/-13.86	-15.33/-10.89	-5.89/-7.91	-12.03/-12.08
Θ(135°)	-18.88/-14.88	-11.44/-12.7	-17.71/-18.55	-17.02/-18.47	-19.34/-16.1	-17.37/-12.24	-9.32/-13.67	-13.08/-11.26	-13.29/-9.98	-8.34/-7.3	-6.95/-6.92	-10.11/-9.63	-9.43/-15.33	-16.78/-18.04	-16.37/-14.64	-17.86/-8.61	-14.59/-10.19	-9.42/-12.74	-9.27/-7.88	-10.66/-17.47	-12.61/-14.15	-10.11/-10.15	-12.56/-18.75	-18.04/-16.77
Θ(142.5°)	-12.35/-16.3	-15.43/-14.23	-18.19/-15.92	-17.94/-17.26	-18.15/-16.3	-17.75/-18.36	-13.11/-14.43	-13.61/-10.39	-11.77/-6.94	-8.47/-8.15	-11.17/-11.64	-10.88/-11.53	-12.88/-12.56	-14.41/-18.62	-18.53/-17.31	-17.82/-14.31	-12.24/-24.95	-10.63/-12.69	-12.34/-11.07	-14.01/-17.95	-12.7/-11.22	-11.08/-9.31	-6.9/-5.53	-8.05/-14.08
Θ(150°)	-11.6/-13.26	-16.41/-18.28	-8.96/-5.15	-12.46/-14.62	-12.56/-14.67	-18.19/-19.25	-19.34/-15.19	-10.65/-8.81	-8.42/-9.02	-10.19/-13.72	-17.79/-17.35	-15.74/-15.04	-14.49/-16.84	-18.11/-17.17	-14.22/-17.28	-18.18/-19.1	-15.43/-16.82	-18.17/-16.89	-16.85/-16.98	-19.22/-15.94	-13.38/-18.93	-13.75/-11.56		
Θ(157.5°)	-17.73/-13.43	-9.53/-7.77	-7.51/-9.78	-14.21/-13.35	-12.19/-10.72	-9.98/-10.59	-12.57/-13.61	-12.72/-12.19	-14.15/-18.66	-17.3/-18.25	-17.92/-17.47	-18.14/-17.51	-18.14/-17.67	-18.82/-16.49	-16.97/-18.4	-18.56/-16.11	-13.27/-13.07	-13.48/-15.03	-16.49/-17.44	-18.98/-19.18	-17.69/-18.88	-17.75/-19	-17.79/-17.78	-17.45/-18.94
Θ(165°)	-15.28/-10.3	-11.03/-9.72	-10.15/-11.38	-13.44/-13.97	-14.62/-14.09	-13.65/-14.89	-14.75/-13.66	-13.07/-11.88	-11.96/-11.52	-11.07/-9.87	-8.9/-10.08	-11.4/-12.78	-12.88/-13.68	-17.98/-17.27	-17.85/-17.66	-18.93/-18.76	-18.5/-18.59	-18.42/-17.68	-19.04/-18.48	-17.56/-19.07	-17.73/-18.49	-17.73/-18.49	-18.57/-17.94	
Θ(172.5°)	-17.58/-18.64	-18.85/-18.9	-18.83/-18.21	-17.46/-16.42	-15.94/-15.14	-15.68/-18.57	-18.41/-18.42	-19.22/-18.14	-18.14/-17.97	-18.43/-16.71	-15.52/-14.5	-11.93/-11.39	-13.29/-11.77	-15.25/-15.32	-15.77/-14.66	-14.46/-14.16	-14.79/-15.61	-18.53/-18.95	-18.18/-18.15	-18.79/-19.09	-17.44/-18.53	-18.62/-18.84		
Θ(180°)	-11.99/-13.67	-17.7/-18.5	-17.39/-18.38	-18.42/-18.51	-19.43/-19.02	-18.14/-17.59	-17.6/-18.45	-18.45/-19.27	-18.51/-17.73	-18.45/-18.13	-18.29/-18.64	-16.41/-14.23	-13.02/-12.37	-12.18/-12.41	-13.03/-12.79	-13.36/-14.69	-15.46/-16.52	-16.73/-16.83	-17.52/-17.7	-16.68/-15.61	-15.12/-14.69	-12.81/-11.05	-10.53/-10.67	-10.24/-10.21
Freq(Hz)	5.785GPol.	Phi/Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-7.13/-11.23	-17.37/-17.64	-9.22/-6.42	-4.95/-3.14	-1.83/-0.88	-0.26/0.26	0.69/0.82	0.73/0.56	0.34/-0.09	-0.25/-0.58	-1.54/-3.09	-4.5/-6.36	-8.68/-10.75	-15.62/-17.36	-13.05/-9.81	-7.26/-5.32	-3.75/-2.31	-1.04/-0.39	0.17/0.79	1.21/0.97	0.54/0.52	0.54/0.13	-0.84/-2	-2.95/-4.77
Θ(7.5°)	-5.85/-9.66	-18.67/-10.83	-8.63/-5.18	-4.05/-3.23	-0.97/0.16	0.95/-6.1	2.28/2.38	2.33/-2.19	1.71/-1.4	0.77/0.39	-0.71/-2.34	-4.57/-9.33	-10.94/-13.68	-15.57/-12.21	-8.53/-5.83	-4.01/-0.33	-0.97/-0.45	-0.02/0.33	0.67/0.69	0.14/-0.78	-1.53/-1.49	-2/-2.83	-3.97/-4.77	
Θ(15°)	-5.28/-8.02	-15.63/-16.65	-8.96/-5.01	-3.75/-3.21	-2.94/-1.76	-0.91/-4.7	2.132.72	2.35/-8.1	1.29/0.84	0.4/-0.45	-1.93/-4.02	-5.9/-8.31	-11.1/-13.19	-12.59/-9.48	-6.66/-4	-2.71/-2.23	-1.98/-1.46	-0.99/-0.29	0.23/0.82	0.91/0.6	-1.39/-2.24	-3.6/-3.35	-1.51/-4.56	
Θ(22.5°)	-11.39/-12.45	-18.88/-19.43	-9.07/-5.08	-3.63/-3.82	-4.51/-2.37	0.17/1.49	1.86/-8.1	1.13/-0.25	-0.98/-1.05	-1.29/-1.76	-2.89/-3.65	-4.49/-6.4	-9.11/-15.35	-19.3/-18.35	-13.04/-7.57	-5.93/-4.21	-2.37/-0.82	0.15/0.85	1.44/-1.83	1.88/-1.46	0.8/-0.06	-1.59/-2.77	-3.47/-5.01	-8.35/-10.55
Θ(30°)	-4.13/-8.59	-18.22/-10.93	-12.85/-8.7	-4.76/-4.41	-1.41/-1.57	0.49/0.79	0.96/0.75	-0.21/-1.94	-3.09/-3.36	-4.31/-5.88	-7.07/-7.54	-8.27/-11.34	-14.32/-10.68	-18.44/-19.34	-12.87/-9.12	-8.7/-8.2	-4.03/-1	-0.65/-0.44	0.03/-0.13	-1.01/-1.16	-0.44/-0.16	-0.25/-2.69	-5.7/-8.93	-6.51/-9.66
Θ(37.5°)	-4.98/-8.09	-18.16/-8.7	-10.4/-11.7	-8.84/-8.74	-4.8/-1.1	-0.52/0.07	1.02/-0.01	-1.49/-2.88	-3.55/-3.55	-7.56/-7.63	-7.69/-11.32	-19.25/-17.96	-18.44/-19.91	-16.18/-17.57	-11.44/-9.9	-10.44/-10.43	-4.63/-1.35	-0.68/-0.41	0.71/0.37	-0.89/-2.82	-3.54/-2.29	-1.69/-2.11	-4.6/-9.1	-10.14/-6.7
Θ(45°)	-8.84/-11.92	-18.17/-13.86	-15.72/-17.65	-12.64/-7.35	-5.32/-0.45	-0.21/-0.61	1.06/-1.49	-3.26/-3.65	-5.89/-7.99	-8.81/-7.86	-7.33/-10.56	-13.35/-16.64	-14.73/-13.89	-17.06/-17.93	-12.86/-11.44	-7.99/-2.44	-1.43/-0.03	0.98/0.37	-0.81/-2.67	-4.5/-5.29	-4.17/-2.8	-3.57/-4.9	-5.92/-8.94	
Θ(52.5°)	-7.9/-18.84	-18.88/-14.84	-19.07/-19.03	-7.95/-3.45	-3.56/-7.4	0.26/-0.45	0.38/-3.89	-5.78/-5.38	-8.42/-9.73	-10.41/-11.72	-7.47/-11.72	-10.81/-13.55	-12.36/-12.67	-16.62/-18.77	-9.02/-8.74	-11.36/-18.17	-8.9/-4.52	-4.81/-2.14	-1.67/-0.98	-0.58/-2.63	-5.46/-6.89	-5.98/-4.2	-6.79/-9.39	-7.29/-6.73
Θ(60°)	-11.88/-15.6	-18.36/-11.12	-15.35/-13.37	-6.29/-2.37	-1.67/-0.99	0.62/-0.62	-1.11/-5.72	-8.43/-5.44	-8/-7.57	-8.09/-7.26	-8.72/-11.51	-13.86/-14.51	-11.48/-11.87	-14.07/-14.35	-9.81/-10.8	-13.79/-11.02	-10.49/-8.08	-4.72/-1.23	-2.15/0.25	-0.4/-1.38	-3.39/-5.58	-3.37/-1.77	-6.6/-18.3	-10.85/-9.54
Θ(67.5°)	-14.95/-12.94	-18.98/-19.01	-12.39/-8.94	-7.82/-6.35	-3.41/-0.81	-0.21/-0.47	-2.69/-8.13	-10.36/-5.37	-6.64/-5.68	-6.7/-6.01	-8.58/-9.4	-11.96/-14.45	-11.89/-15.67	-18.13/-12.63	-8.22/-9.87	-13.74/-11.01	-10.4/-5.98	-4.5/-2.4	-4.3/-0.61	-1.53/0.59	-1.34/-3.98	-1.66/-0.35	-3.7/-8.48	-7.89/-8.91
Θ(75°)	-13.17/-17.98	-16.69/-18.9	-18.16/-9.58	-9.1/-10.91	-4.64/-1.34	-1.67/-1.69	-6.12/-11.07	-11.95/-5.61	-5.73/-4.83	-5.68/-6.34	-9.74/-10	-12.47/-14.03	-12.67/-16.85	-18.08/-13.18	-10.17/-11.19	-12.08/-8.47	-6.71/-5.63	-5.2/-3.49	-5.56/-2.35	-1.05/-1.77	-0.66/-5.04	-4.14/-2.02	-4.5/-6.27	-7.93/-6.74
Θ(82.5°)	-13.12/-16.17	-13.22/-19.16	-18.62/-11.77	-9.55/-14.3	-5.01/-1.58	-4.58/-4.73	-10.23/-13.04	-9.62/-6.62	-5.02/-4.89	-5.61/-5.92	-8.89/-10.02	-10.52/-14.27	-15.82/-18.1	-18.15/-14.72	-12.36/-14.59	-11.27/-9.37	-7/-6.45	-5.14/-7.65	-8.32/-1.74	-1.78/0.3	-0.42/-5.69	-5.97/-2.92	-4.27/-5.69	-9.05/-5.34
Θ(90°)	-11.98/-17.65	-13.78/-18.17	-17.57/-12.54	-12.17/-13.92	-5.82/-3.77	-4.93/-7.98	-12.46/-11.63	-6.59/-5.86	-4.68/-5.38	-6.14/-8.4	-13.31/-11.13	-11.19/-15.83	-11.68/-17.51	-19.27/-11.96	-14.85/-15.45	-11.68/-10.73	-9.12/-8.55	-7.66/-11.07	-9.66/-12.87	-6.5/-3.98	-2.81/-1.05	-11.71/-5.57	-6.92/-8.13	-11.76/-5.94
Θ(97.5°)	-14.53/-13.58	-17.87/-17.64	-18.54/-13.12	-17.57/-12.59	-8.88/-6.11	-9.09/-12.54	-11.1/-11.31	-6.77/-6.47	-5.64/-6.61	-7.67/-9.11	-13.31/-12.09	-12.72/-14.21	-16.54/-17.46	-18.02/-17.33	-18.03/-13.46	-10.27/-13.51	-15.54/-12.58	-7.89/-10.91	-10.05/-15.3	-13.29/-13.17	-5.93/-17.21	-17.78/-8.93	-6.82/-10.3	-18.28/-9.21
Θ(105°)	-13.08/-16.15	-15.97/-17.9	-18.05/-18.79	-16.09/-12.64	-9.82/-6.92	-9.58/-16.35	-11.32/-10.76	-8.39/-5.73	-5.97/-6.1	-8.21/-10.5	-12.77/-14.02	-14.96/-17.12	-16.32/-14.9	-18.74/-13.9	-15.39/-18.74	-10.82/-10.31	-14.76/-13.62	-11.82/-13.84	-12.82/-15.22	-15.47/-18.28	-7.85/-11.42	-18.84/-9.64	-5.66/-12.41	-18.19/-15.32
Θ(112.5°)	-14.05/-11.41	-16.68/-17.74	-18.72/-19.02	-17.17/-12.49	-9.62/-16.52	-11.61/-14.54	-8.39/-7.8	-11.77/-14.01	-16.34/-18.21	-18.48/-17.18	-18.08/-19.05	-17.77/-14.02	-12.51/-18.53	-17.76/-15.95	-12.82/-15.84	-17.53/-17.05	-16.6/-17.56	-9.87/-9.05	-10.25/-10.77	-12.5/-9.6				



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

Θ(112.5°)	-10.59/-6.49	-6.96/-9.75	-14.54/-9.63	-8.88/-12.35	-4.11/-6.91	-14.35/-7.68	-8.6/-9.96	-9.06/-11.52	-17.72/-8.64	-6.64/-6.34	-9.49/-9.77	-5.92/-8.62	-13.29/-9.02	-9.87/-7.08	-3.72/-6.61	-7.29/-9.34	-13.44/-6.58	-7.82/-5.73	-5.24/-5.29	-4.4/-4.25	-2.09/-1.48	-13.04/-10.36	-4.31/-6.03	-4.37/-6.78
Θ(120°)	-9.32/-11.89	-10.34/-9.44	-10.02/-18.7	-12.94/-12.88	-5.1/-3.86	-10.47/-9.68	-10.41/-8.72	-8.44/-6.31	-7.69/-8.25	-9.92/-13.07	-16/-10.04	-5.85/-7.9	-18.39/-9.81	-10.59/-15.91	-3.57/-9.72	-6.8/-7.59	-11.39/-10.16	-14.66/-8.19	-10.03/-7.32	-9.08/-8.2	-4.67/-5.46	-13.34/-7.45	-4.74/-4.7	-7.13/-8.1
Θ(127.5°)	-7.09/-9.19	-9.77/-10.93	-9.23/-13.92	-16.04/-11.81	-11.29/-17.87	-9.81/-10.52	-8.48/-15.99	-12.54/-11.95	-18.78/-12.66	-17.7/-13.1	-6.42/-4.26	-9.16/-11.14	-15.18/-9.4	-6.91/-12.31	-3.8/-4.96	-6.14/-14.55	-8.28/-14.07	-10.41/-11.61	-15.52/-8.74	-10.53/-10.72	-9.21/-7.71	-11.04/-18.78	-12.48/-7.39	-6.15/-17
Θ(135°)	-18.77/-7.83	-4.54/-7.63	-18.22/-12.9	-19.54/-11.65	-8.41/-13.45	-18.5/-14.76	-11.36/-11.53	-16.94/-16.1	-14.23/-19.02	-15.71/-11.75	-5.9/-7.29	-13.77/-18.4	-18.82/-17.48	-11.69/-14.73	-9.71/-10.8	-7.1/-11.05	-8.33/-18.39	-8.19/-10.97	-18.86/-15	-9.94/-11.71	-7.32/-10.39	-12.79/-11.34	-6.66/-7.16	-17.91/-17.7
Θ(142.5°)	-7.71/-10.05	-9.71/-9.92	-14.37/-19.6	-15.79/-13.14	-11.3/-13.56	-18/-11.33	-11.69/-12.3	-18.08/-17.7	-10.32/-10.09	-8.64/-7.6	-7.93/-10.66	-17.66/-18.55	-16.04/-12.96	-11.78/-17.49	-14.9/-9.98	-10.53/-12.09	-15.19/-19.1	-18.43/-12.54	-14.07/-17.41	-16.05/-17.78	-18.64/-18.86	-18.15/-18.55	-17.1/-12.74	-10.17/-15.7
Θ(150°)	-16.56/-11.14	-10.71/-5.73	-17.14/-14.23	-13.01/-13.4	-19.55/-16.27	-11.08/-10.33	-10.72/-15.21	-18.26/-17.25	-14.22/-10.04	-4.38/-6.66	-12.93/-18.07	-19.17/-16.41	-16.62/-11.73	-9.23/-9.8	-15.15/-13.31	-15.15/-12.95	-13.49/-17.99	-18.19/-18.37	-18.51/-18.58	-18.19/-18.37	-15.61/-16.65	-5.77/-7.64	-12.53/-16.08	
Θ(157.5°)	-15.67/-18.24	-17.09/-18.4	-17.64/-18.43	-18.43/-17.33	-15.44/-15.48	-18.4/-18.75	-18.21/-17.29	-18.45/-17.49	-19.24/-15.65	-16.8/-17.12	-11.37/-10.51	-13.51/-15.69	-14.09/-11.15	-9.58/-11.06	-15.6/-15.53	-13.67/-18.5	-17.88/-12.42	-13.03/-18.68	-15/-11.07	-11.6/-11.25	-10.03/-11.45	-17.73/-17.53	-11.68/-9.64	-8.47/-8.73
Θ(165°)	-7.63/-8.29	-9.95/-13.22	-14.66/-18.7	-14.55/-13.05	-13.93/-14.77	-17.83/-17.85	-17.89/-16.35	-17.16/-18.66	-15.83/-12.68	-11.33/-11.22	-10.07/-9.91	-11.47/-13.45	-15.5/-17.13	-15.69/-15.1	-14.79/-15.13	-15.77/-14.33	-12.28/-10.52	-9.37/-10.33	-12.88/-16.45	-15.73/-11.43	-4.84/-7.92	-8.57/-9.08	-8.77/-7.83	-7.28/-7.54
Θ(172.5°)	-16.75/-16.91	-18.36/-18.81	-19.07/-16.29	-13.46/-12.58	-12.03/-11.85	-10.74/-10.4	-11.11/-12.24	-12.17/-11.42	-10.78/-10.88	-11.32/-13.05	-15.95/-17.85	-18.35/-19.11	-18.24/-18.79	-18.66/-18.73	-18.22/-18.79	-18.03/-18.43	-18.33/-17.3	-15.45/-14.71	-14.15/-15.46	-17.59/-16.17	-13.71/-11.47	-10.35/-9.18	-9.07/-10.02	-11.54/-13.55
Θ(180°)	-13.16/-14.64	-15.25/-15.93	-18.43/-19.05	-18.41/-18.88	-18.37/-18.63	-18.73/-18.1	-17.61/-18.28	-16.19/-15.59	-14.34/-12.67	-12.25/-12.44	-12.73/-12.89	-11.59/-10.44	-9.99/-11.3	-13.08/-14.32	-15.13/-15.85	-17.95/-17.82	-16.99/-16.46	-15.01/-12.77	-11.17/-10.65	-10.24/-9.92	-9.77/-9.68	-9.78/-9.99	-9.83/-10.04	-10.34/-11.75
Freq(Hz)	6.475GPol.	PhiAnt.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-18.19/-17.91	-14.41/-9.3	-6.84/-5.4	-4.17/-2.85	-2.29/-1.69	-1.3/-0.74	-0.58/-0.69	-0.91/-3.8	-1.56/-1.52	-1.79/-2.67	-3.93/-5.37	-6.64/-8.38	-10.66/-11.75	-10.38/-8.5	-5.88/-3.95	-2.35/-1.13	-0.08/0.63	1/1.2	1.11/-1.05	0.96/0.93	1.01/0.34	-0.96/-2.43	-3.96/-6.07	-8.11/-10.62
Θ(7.5°)	-19.11/-18.2	-13.77/-9.7	-7.79/-7.72	-6.96/-4.92	-3.19/-2.24	-1.83/-1.51	-1.68/-1.61	-1.93/-2.06	-1.77/-1.8	-2/-2.63	-3.09/-4.2	-6.34/-8.04	-9.6/-11.42	-13.1/-11.83	-8.77/-6.27	-4.6/-3.43	-2.28/-1.32	-0.64/-1.1	0.73/-1.17	1.2/-1.17	1.24/0.85	0.06/-0.64	-1.76/-3.63	-7.06/-9.94
Θ(15°)	-9.37/-13.49	-17.73/-10.09	-7.78/-9.34	-11.62/-6.86	-2.68/-0.88	-0.46/-0.97	-1.55/-1.69	-1.26/-0.91	-0.84/-1.67	-2.41/-3.52	-3.99/-5.14	-7.53/-8.42	-10.6/-15.22	-12.13/-8.27	-5.6/-4.41	-3.9/-3.42	-2.44/-1.37	-0.84/-1.04	-1.37/-1.74	-1.79/-2.68	-2.36/-2.58	-2.15/-1.57	-2.97/-4.99	
Θ(22.5°)	-7.37/-10.06	-15.91/-17.19	-8.59/-7.59	-9.66/-6.35	-3.07/-1.79	-1.02/-0.88	-0.85/-0.9	-0.61/-0.44	-0.84/-2.3	-4.62/-6.17	-6.88/-6.67	-6.66/-6.86	-9.01/-11.2	-10.34/-10.08	-10.58/-9.05	-7.53/-5.7	-4.79/-4.19	-2.01/-0.65	-1.21/-1.49	0.23/0.96	0.35/-0.94	-1.97/-2.48	-4.12/-7.06	-7.01/-5.79
Θ(30°)	-19.03/-17.78	-9.97/-17.89	-8.92/-9.02	-8.64/-3.66	-3.99/-4.76	-2.21/-0.28	0.14/0.01	-0.28/-1.07	-2.11/-3.41	-7.06/-12.03	-15.38/-12.11	-8.64/-7.65	-6.96/-9.26	-13.89/-15.73	-13.21/-11.38	-12.07/-9.66	-7.68/-4.77	-3.42/-0.74	-1.91/-9.21	-0.16/-3.5	0.16/-1.71	-2.13/-2.81	-1.91/-1.36	-5.28/-18.24
Θ(37.5°)	-11.56/-16.38	-9.98/-18.78	-6.78/-8.63	-11.66/-5.19	-7.04/-8.76	-3.21/-0.5	-1.25/-1.68	-0.37/-2.52	-4.33/-6.08	-10.71/-13.37	-13.35/-13.82	-12.05/-10.88	-9.21/-7.31	-10.17/-19.23	-11.71/-11.6	-17.02/-12.58	-7.24/-6.71	-3.24/-0.29	-0.63/-2.13	-0.91/-4.58	-3.26/-2.07	-3.23/-5.93	-6.86/-5.03	-4.91/-10.13
Θ(45°)	-14.61/-12.78	-18.37/-19.01	-8.79/-7.7	-18.61/-11.01	-10.9/-11.59	-2.09/-1.36	-2.22/-1.21	-1.58/-4.2	-6.68/-9.18	-17.61/-19.03	-16.84/-13.4	-12.91/-17.02	-14.34/-7.53	-6.62/-16.49	-12.63/-7.56	-11.34/-12.22	-8.12/-4.95	-2.08/0.14	1.02/-1.41	-6.39/-7.08	-4.85/-2.28	-2.32/-5.65	-4.95/-4.77	-11.19/-15.1
Θ(52.5°)	-17.92/-17.75	-16.47/-14.55	-14.64/-11.16	-13.61/-14.24	-6.92/-11	-0.92/-1.45	-1.76/-2.78	-3.89/-6.96	-11.54/-17.34	-18.07/-17.77	-12.75/-13.53	-15.52/-16.14	-17.02/-9.95	-9.75/-12.31	-8.01/-6.68	-11.02/-17.73	-8.66/-6.45	-4.67/-2.14	-0.75/-2.67	-5.31/-5.58	-7.3/-4	-4.08/-6.45	-6.63/-8.3	-4.79/-10.05
Θ(60°)	-15.86/-17.82	-13.96/-16.33	-19.06/-11.03	-9.34/-8.64	-7.79/-10.15	-1.12/-2.82	-4.35/-4.95	-10.22/-16.29	-17.94/-15.27	-12.62/-11.1	-18.99/-11.46	-19.86/-12.89	-12.14/-11.02	-6.53/-6.35	-14.86/-16.94	-9.88/-9.16	-8.2/-6.04	-3.75/-9.24	-6.23/-12.24	-14.86/-4.92	-4.61/-8.28	-17.86/-11.17	-9.07/-14.83	
Θ(67.5°)	-14.34/-17.28	-16.72/-17.01	-18.82/-14.39	-5.91/-10.34	-12.31/-9.3	-2.51/-7.93	-3.08/-8.19	-8.12/-4.5	-6.22/-12.19	-13.77/-12.43	-12.06/-13.82	-17.75/-14.55	-18.25/-10.87	-13.93/-11.58	-6.24/-8.84	-11.11/-13.7	-11.9/-7.01	-9.03/-5.32	-2.09/-1.07	-3.31/-5.55	-8.18/-3.29	-1.5/-4.68	-9.46/-16.08	-11.79/-15.8
Θ(75°)	-12.32/-18.01	-18.97/-13.26	-18.02/-14.04	-6.09/-11.59	-13.9/-10.53	-2.79/-4.02	-3.4/-8.7	-6.57/-5	-6.4/-14.91	-14.21/-10.86	-18.71/-13.22	-14.96/-15.55	-17.13/-22.2	-14.96/-12.83	-7.19/-9.27	-13.95/-15.84	-9.33/-4.5	-5.26/-4.01	-1.38/-1.38	-1.83/-3.4	-5.42/-14.4	-0.81/-2.88	-7.54/-8.86	-7.73/-16.53
Θ(82.5°)	-10.47/-18.84	-13.95/-7.85	-16.09/-16.07	-8.07/-14.4	-17.7/-16.39	-3.05/-5.41	-7.3/-9.19	-5.96/-5.15	-6.51/-13.49	-14.69/-11.2	-14.52/-18.79	-19.16/-16.69	-18/-16.59	-17.52/-15.66	-16.93/-14.34	-6.88/-7.08	-3.36/-4.59	-5.41/-4.57	-2.79/-1.52	-5.56/-7.21	-1.8/-5.29	-9.14/-11.98	-6.94/-19.03	
Θ(90°)	-11.18/-17.73	-19.17/-9.12	-18.6/-12.06	-9.71/-11.35	-13.89/-15.13	-4.26/-6.68	-10.91/-8.88	-4.95/-5.13	-6.49/-15.93	-18.83/-12.67	-19.07/-16.99	-17.86/-16.09	-19.23/-17.63	-16.11/-14.18	-10.59/-16.36	-18.95/-19.16	-7.99/-10.78	-4.88/-5.24	-8.74/-6.79	-4.24/-1.59	-5.24/-10.51	-4.52/-6.27	-11.17/-13.21	-6.5/-16.47
Θ(97.5°)	-13.24/-18.38	-17.93/-14.05	-18.82/-12.86	-17.35/-11.36	-12.09/-12.57	-8.71/-16.46	-16.18/-6.39	-4.31/-6.24	-8.31/-13.82	-14.41/-15.02	-17.93/-19.29	-18.07/-17.41	-18.89/-18.85	-18.62/-14.95	-14.28/-16.58	-13.18/-16.05	-11.37/-10.75	-7.55/-9.01	-16.38/-10.66	-10.79/-7.53	-7.24/-11.71	-9.26/-6.51	-18.35/-14.54	-8.88/-14.73
Θ(105°)	-15.17/-18.23	-16.11/-14.9	-18.54/-19.99	-13.45/-12.75	-13.87/-18.66	-15.41/-9.7	-7.99/-6.22	-9.21/-11.38	-13.38/-14.26	-18.33/-16.72	-18.57/-18.01	-15.74/-18.87	-17.52/-16.35	-14.61/-18.53	-14/-16.72	-17.92/-18.28	-10.86/-8.56	-16.15/-11.28	-15.82/-8.54	-5.61/-4.7	-19.07/-18.06	-19.28/-12.5		
Θ(112.5°)	-18.84/-18.25	-18.82/-11.52	-18.56/-18.51	-7.89/-11.03	-19.3/-19.62	-18.1/-12.56	-7.45/-6.32	-4.7/-8.05	-12.25/-9.8	-14.3/-16.12	-18.92/-18.03	-19.17/-19.19	-15.93/-17.28	-19.11/-18.5	-14.06/-16.27	-15.55/-15.47	-17.9/-7.91	-7.61/-9.29	-9.65/-11.74	-18.14/-19.31	-5.57/-6.22	-13.37/-11.79	-13.21/-15.19	-14.23/-15.36
Θ(120°)	-16.04/-17.65	-18.83/-17.3	-18.25/-14.37	-17.92/-12.13	-18.37/-18.12	-6.65/-9.72	-6.99/-6.46	-8.54/-9.19	-15.8/-14.5	-17.78/-18.77	-18.32/-18.42	-18.93/-18.58	-17.85/-16.93	-15.71/-19.34	-15.6/-18.51	-15.14/-14.08	-11.89/-9.57	-8.46/-11.06	-7.04/-12.16	-14.03/-8.1	-17.73/-10.65	-12.68/-18.01	-12/-15.65	-9.1/-18.95
Θ(127.5°)	-15/-18.27	-16.1/-18.7	-18.66/-18.71	-18.45/-15.35	-14.69/-11.64	-8.72/-5.32	-7.42/-6.79	-8.83/-10.19	-16.72/-18.61	-18.18/-17.6	-12.36/-19.25	-18.39/-18.53	-18.34/-17.98	-17.8/-14.11	-18.54/-15.3	-17.1/-12.86	-17.07/-18.66	-7.34/-7.6	-8.02/-9.48	-10.49/-8.06	-17.2/-9.47	-13.49/-10.11	-19.66/-17.26	-8.46/-15.68
Θ(135°)	-16.56/-13.45	-18.09/-18.09	-15.65/-16.55	-12.36/-7.28	-8.65/-6.61	-12.68/-10.03	-8.39/-10.78	-8.42/-9.58	-17.78/-12.71	-14.1/-15.3	-17.85/-19.32	-17.75/-16.71	-18.54/-18.68	-19.14/-14.62	-11.54/-10.19	-17.73/-15.07	-15.08/-17.73	-17.86/-18.7	-9.42/-7.88	-8.91/-8.24	-9.25/-16.32	-18.31/-18.53	-9.04/-10.34	-17.65/-16.51
Θ(142.5°)	-8.26/-16.52	-10.05/-12.2	-16.43/-8.81	-13.28/-10.66	-14.25/-7.07	-4.69/-13.35	-13.83/-12.41	-18.08/-14.45	-18.49/-14.28	-13.58/-18.89	-18.63/-19.05	-18.79/-18.93	-15.94/-19.94	-16.75/-16.99	-14.13/-13.32	-19.31/-17.68	-15.06/-1.77	-18.66/-18.1	-18.15/-17.98	-13.69/-17.45	-8.09/-10.97	-11.89/-10.09	-14.3/-15.31	-18.17/-9.6
Θ(150°)	-8.91/-16.51	-7.84/-7.81	-9.98/-11.68	-14.13/-18.43	-10.36/-12.57	-14.11/-13.44	-12.86/-12.72	-12.32/-12.19	-15.47/-15.15	-13.82/-16.5	-18.65/-18.85	-19.37/-17.79	-19.1/-18.95	-14.94/-12.97	-15.13/-18.66	-19.26/-18.9	-17.12/-13.86	-14.81/-13.71	-10.11/-9.29	-9.91/-15.04	-10.54/-10.33	-13.35/-9.9	-12.61/-13.27	
Θ(157.5°)	-18.02/-17.71	-13/-18.59	-18.98/-11.86	-8.92/-10.52	-12.87/-10.48	-10.68/-15.25																		



Radiated Composite Gain Data of Scan Radio_SC Ant1~2

Appendix A.3

Θ(165°)	-10.93/-11.5	-12.95/-14.63	-16.5/-18.03	-18.55/-17.48	-15.66/-15.87	-16.6/-18.05	-16.5/-15.52	-17.93/-18.12	-15.59/-14.81	-16.72/-18.56	-16.17/-14.87	-17.6/-19.32	-18.93/-16.73	-14.03/-12.22	-11.03/-10.23	-10.33/-11.84	-13.56/-13.28	-12.43/-12.1	-12.98/-15.87	-17.98/-17.55	-14.23/-12.07	-10.72/-9.91	-9.96/-11.93	-12.64/-11.47
Θ(172.5°)	-15.45/-16.3	-17.25/-16.84	-16.3/-17.51	-18.11/-18.76	-18.43/-18.75	-19.26/-17.53	-17.64/-18.9	-18.46/-16.86	-15.48/-13.27	-11.45/-9.94	-9.54/-9.49	-11.19/-13.68	-14.83/-16.63	-17.62/-17.52	-19.14/-17.24	-16.2/-15.72	-16.67/-17.13	-17.23/-17.82	-18.78/-18.21	-14.84/-12.55	-10.79/-9.43	-9.59/-10.25	-10.11/-10.28	-12.56/-14.15
Θ(180°)	-18.43/-18.56	-18.31/-16.51	-16.08/-18.36	-19.31/-18.43	-17.09/-17.26	-18.8/-18.66	-18.3/-17.8	-14.33/-11.43	-10.47/-9.93	-9.97/-10.54	-10.95/-10.94	-9.88/-8.94	-10.81/-12.57	-13.85/-15.37	-15.5/-16.71	-16.79/-15.05	-18.96/-18.26	-18.23/-19.22	-19/-17.88	-18.8/-18.02	-15.96/-15.23	-15.55/-16.54	-17.46/-16.95	-16.7/-17.92
Freq(Hz)	6.995GPol.	Phi/Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-9.85/-8.57	-6.39/-5.17	-5.05/-4.72	-4.27/-3.62	-2.98/-3	-2.54/-2.03	-1.92/-2.01	-2.01/-2.39	-2.79/-3.01	-3.33/-4.18	-5.65/-7.24	-8.42/-11.41	-13.71/-15.44	-15.07/-13.57	-11.11/-8.65	-6.78/-6.69	-4.63/-3.61	-3.05/-2.87	-2.8/-2.8	-2.59/-2.71	-2.86/-3.79	-4.94/-5.75	-6.85/-8.38	-8.29/-9.14
Θ(7.5°)	-10.66/-10.88	-10.97/-11.43	-9.93/-6.65	-4.54/-4.07	-3.49/-3.05	-2.35/-2.32	-2.11/-2.15	-2.02/-2.17	-1.92/-2.23	-2.49/-3.44	-4.12/-6.73	-10.78/-15.27	-16.75/-15.05	-12.73/-10.27	-8.71/-7.22	-6.51/-6.09	-5.77/-5.91	-6.32/-6.07	-4.87/-3.33	-1.86/-0.76	-0.34/-0.77	-2.01/-3.94	-6.67/-9.65	-10.26/-10.34
Θ(15°)	-10.51/-7.91	-8.28/-11.97	-18.31/-9.26	-5.87/-5.47	-4.71/-4.02	-3.21/-3.55	-3.46/-3.4	-3.1/-2.03	-0.84/-1.6	-3.8/-6.19	-7.44/-9.87	-15.9/-18.98	-17.08/-13.47	-12.73/-12.88	-11.25/-8.17	-6.85/-5.61	-4.31/-4.14	-4.81/-4.58	-3.88/-2.97	-2.05/-1.37	-0.97/-1.13	-1.57/-2.74	-3.76/-6.59	-12.03/-19.76
Θ(22.5°)	-11.14/-18.31	-17.53/-19.01	-14.61/-9.66	-5.99/-4.92	-5.46/-3.97	-3.21/-3.9	-3.82/-3.17	-2.6/-2.1	-1.89/-3.52	-7.44/-9.92	-8.33/-6.97	-9.01/-12.6	-11.87/-12.07	-17.64/-19.13	-13.52/-8.51	-6.34/-5.41	-4.16/-4.74	-5.76/-4.07	-2.37/-3.09	-6.4/-8.58	-5.25/-2.4	-2.14/-2.89	-3.64/-3.67	-4.46/-6.96
Θ(30°)	-7.22/-14.29	-17.78/-18.67	-17.89/-9.52	-3.53/-4.6	-4.9/-2.33	-1.96/-3.13	-2.48/-1.56	-3.07/-3.83	-2.41/-3.91	-8.76/-9.04	-9.3/-12.34	-13.02/-12.78	-12.39/-12.05	-9.38/-8.85	-10.29/-11.87	-7.92/-6.36	-7.21/-6.08	-6.55/-4.06	-1.34/-0.68	-1.21/-1.14	-0.49/-2	-4.51/-4.14	-4.23/-7.09	-12.77/-8.81
Θ(37.5°)	-12.44/-11.25	-8.88/-15.91	-8.56/-13.15	-4.1/-5.2	-4.66/-2.34	-3.39/-4.44	-1.5/-1.69	-4.76/-4.59	-3.71/-7.92	-12.49/-11.8	-16.81/-14.72	-14.56/-14.32	-15.33/-14.31	-12.1/-9.14	-11.65/-18.12	-18.21/-14.28	-8.41/-7.08	-6.01/-4.25	-3.82/-3.86	-3.18/-2.42	-1.94/-3.23	-3.77/-2.68	-4.48/-5.16	-4.23/-11.93
Θ(45°)	-16.99/-8.83	-9.92/-13.08	-6.34/-13.46	-8.7/-9.9	-8.88/-4.47	-4.88/-3.8	-2.53/-3.58	-6.71/-7.28	-9.05/-11.75	-11.45/-14.99	-18.55/-18.43	-18.07/-17.52	-16.04/-10.07	-15.22/-12.48	-10.72/-17.27	-11.77/-8.94	-5.47/-3.45	-3.74/-3.07	-5.19/-10.03	-5.5/-7.15	-5.53/-7.07	-11.85/-9.93	-12.19/-18.19	
Θ(52.5°)	-14.8/-14.54	-19.5/-14.62	-16.18/-16.31	-12.25/-12.41	-14.39/-7.13	-6.2/-2.32	-4.27/-6.87	-12.91/-12.07	-15.08/-13.02	-14.66/-15.49	-14.76/-19.21	-19.26/-17.94	-18.46/-12.26	-13.22/-15.28	-8.49/-9.84	-10.69/-11.6	-18.22/-12.12	-9.14/-4.93	-3.19/-4.23	-7.44/-8.47	-5.52/-11.94	-5.9/-7.18	-5.24/-4.26	-8.11/-8.89
Θ(60°)	-16.23/-18.64	-17.37/-19.03	-18.6/-17.57	-14.62/-8.92	-12.02/-9.34	-5.42/-0.06	-4.2/-7.54	-14.94/-12.89	-13.69/-12.34	-14.44/-19.36	-14.31/-15.64	-18.73/-19.01	-18.36/-17.87	-12.25/-11.46	-10.28/-9.87	-9.35/-12.86	-17.72/-17.73	-14.7/-9.07	-3.79/-4.06	-7.22/-16.75	-9.28/-11.78	-5.86/-15.94	-9.05/-7	-12.39/-10.18
Θ(67.5°)	-19.91/-18.45	-15.03/-16.32	-17.7/-15.44	-9.76/-10.34	-12.62/-7.41	-2.49/-2.71	-5.79/-7.92	-13.31/-7.73	-9.68/-10.13	-18.95/-19.19	-17.69/-19.28	-18.7/-18.91	-18.07/-18.9	-18.5/-9.79	-9.06/-10.51	-12.19/-16.81	-12.3/-16.28	-19.02/-12.68	-5.08/-2.89	-5.76/-8.84	-13.98/-9.91	-4.36/-6.45	-16.63/-18.09	-17.74/-18.34
Θ(75°)	-18.05/-18.24	-12.2/-12.29	-17.99/-12.74	-8.71/-11.12	-12.18/-7.17	-3.49/-3.48	-5.58/-8.33	-19.02/-7.7	-8.87/-11.45	-14.42/-18.82	-18.07/-18.56	-17.98/-17.66	-18.93/-18.74	-19.3/-11.77	-13.02/-12.69	-12.28/-14.57	-11.1/-13.31	-13.65/-13.57	-8.73/-3.1	-4.77/-4	-9.19/-6.72	-3.17/-3.6	-8.4/-12.54	-13.02/-12.44
Θ(82.5°)	-18.59/-19.07	-12.16/-13.51	-15.46/-14.92	-5.73/-19.09	-14.12/-8.21	-3.93/-4.67	-9.31/-9.92	-14.53/-9.14	-8.54/-13.07	-12.82/-18.74	-17.45/-19.32	-16.9/-16.45	-11.42/-16.94	-16.28/-10.41	-13.61/-17.87	-13.77/-15.98	-11.41/-14.62	-8.91/-7.12	-8.7/-4.28	-4.09/-3.92	-5.73/-8.3	-4.89/-5.97	-6.84/-12.22	-10.96/-8.61
Θ(90°)	-15.26/-18.19	-15.27/-11.86	-13.83/-18.94	-7.57/-19.11	-19.12/-8.08	-3.67/-7.08	-13.11/-11.49	-13.69/-7.99	-9.87/-13.34	-10.29/-18.08	-16.69/-17.99	-14.33/-15.79	-10.99/-17.98	-13.14/-10.27	-14.28/-19.34	-14.61/-14.63	-15.89/-14.59	-8.83/-6.31	-11.65/-12.02	-11.59/-7.17	-8.16/-11.64	-6.36/-9.3	-6.33/-15.14	-9.78/-10.16
Θ(97.5°)	-12.55/-18.68	-18.87/-11.63	-15.2/-16.29	-9.04/-14.49	-17.56/-10.69	-4.35/-9.46	-12.37/-13.27	-11.14/-6.84	-9.65/-13.79	-11.7/-19.14	-16.1/-19.04	-18.08/-12.17	-12.01/-16.99	-11.79/-10.41	-17.59/-17.57	-17.39/-12.92	-19.02/-14.22	-11.36/-9.28	-14.88/-18.06	-14.25/-12.33	-10.79/-14.66	-7.72/-10.74	-8.24/-15.88	-13.1/-13.05
Θ(105°)	-11.47/-18.78	-19.03/-12.13	-18.8/-17.98	-16.57/-18.55	-17.53/-8.3	-10.32/-14.34	-14.06/-10.25	-6.36/-6	-12.75/-13.77	-18.08/-15.12	-13.08/-18.03	-18/-12.87	-15.24/-18.1	-11.99/-16.11	-18.53/-17.32	-17.76/-14.07	-18.28/-18.25	-11.31/-10.26	-16.73/-18.85	-18.34/-18.84	-9.35/-13.85	-11.81/-10.78	-7.66/-13.75	-17.08/-18.19
Θ(112.5°)	-15.87/-18.46	-19.22/-14.75	-15.16/-19.1	-15.64/-18.49	-12.61/-12.44	-14.29/-7.67	-9.35/-5.14	-6.39/-9	-13.35/-15.47	-18.57/-16.22	-12.59/-19.27	-17.33/-11.31	-18.31/-16.91	-13.41/-18.84	-14.11/-16.95	-17.85/-12.42	-15.58/-19.1	-11.59/-11.99	-10.93/-13.88	-12.52/-9.84	-8.32/-14.61	-17.75/-10.49	-12.69/-17.46	-13.24/-18.17
Θ(120°)	-18.92/-13.5	-18.64/-18.43	-14.61/-15.49	-16.64/-15.77	-16.85/-14.29	-8.3/-7.17	-10.63/-10.97	-13.92/-12.73	-17.77/-18.55	-14.25/-11.53	-14.8/-18.12	-15.35/-13.52	-18.99/-14.42	-18.85/-18.34	-14.06/-18.45	-16.76/-10.09	-18.6/-16.46	-16.7/-11.3	-14.03/-14.98	-12.3/-9.67	-18.04/-11.45	-15.1/-10.52	-14.16/-18.33	-9.23/-18.46
Θ(127.5°)	-11.98/-10.2	-19.08/-17.32	-15.77/-16.45	-14.48/-16.21	-14.64/-9.44	-6.06/-7.67	-11.53/-10.4	-11.53/-15.42	-15.81/-9.52	-11.98/-12.6	-19.05/-19.13	-14.8/-18.3	-17.87/-17.54	-16.72/-18.92	-15.93/-16.23	-17.79/-18.7	-12.43/-16.93	-16.03/-14.31	-8.63/-6.56	-7.68/-9.88	-6.83/-12.87	-15.45/-13.34	-12.65/-18.97	-16.45/-16.65
Θ(135°)	-19.7/-18.84	-18.31/-18	-19.02/-15.34	-10.19/-9.3	-15.25/-6.88	-10.36/-12.86	-15.06/-12.43	-17.38/-12.49	-13.84/-11.72	-15.95/-17.83	-18.88/-14.61	-17.02/-18.58	-19.08/-12.05	-16.76/-18.8	-15.75/-11.98	-12.41/-17.38	-14.76/-15.03	-10.01/-14.5	-17.7/-11.54	-8.96/-11.07	-17.64/-16.41	-14.09/-13.32	-13.84/-9.3	-17.74/-17.62
Θ(142.5°)	-14.92/-16.01	-15.68/-18.55	-12.19/-11.64	-18.12/-13.43	-11.57/-9.54	-18.54/-16.34	-17.89/-11.96	-17.89/-12.19	-10.05/-14.11	-18.21/-18.67	-17.68/-17.53	-17.77/-18.44	-17.88/-17.14	-16.91/-13.88	-14.98/-17.37	-18.54/-18.27	-18.49/-15.56	-13.4/-18.98	-15.09/-13.83	-15.34/-13.34	-18.59/-14.46	-13.19/-11.64	-9.64/-15.87	-18.86/-13.69
Θ(150°)	-12.38/-9.9	-16.1/-8.63	-10.9/-10.51	-17.83/-17.49	-12.72/-12.18	-13.62/-17.79	-19.62/-15.52	-17.85/-17.31	-18.93/-18.36	-16.94/-19.32	-17.68/-18.65	-17.18/-17.81	-18.82/-18.63	-15.63/-18.63	-17.61/-13.78	-18.76/-18.59	-18.02/-12.96	-13.12/-12.26	-12.66/-14.87	-13.86/-12.47	-12.61/-16.41	-18.91/-13.22	-12.09/-7.54	-9.67/-17.91
Θ(157.5°)	-14.07/-11.66	-18.63/-15.95	-17.84/-11.94	-10.25/-11.88	-15.03/-15.25	-11.13/-10.5	-10.95/-11.08	-11.18/-9.63	-7.54/-7	-8.69/-12.97	-18.52/-17.5	-19.07/-18.8	-17.9/-18.83	-14.3/-16.71	-18.28/-18.12	-18.02/-17.69	-17.32/-12.42	-11.1/-13.93	-17.9/-15.71	-14.12/-12.78	-10.22/-11.28	-16.51/-18.88	-17.75/-18.93	-18.69/-19.13
Θ(165°)	-18.24/-19.13	-17.88/-18.15	-17.35/-17.88	-17.76/-17.68	-16.6/-18.23	-16.01/-15.79	-18.64/-17.67	-13.88/-11.32	-10.77/-11.35	-13.38/-14.53	-17.7/-18.74	-18.33/-18.83	-17.89/-17.5	-18.68/-18.84	-17.68/-17.84	-18.54/-16.53	-12.28/-12.2	-15.74/-18.4	-18.15/-18.71	-18.22/-18.59	-18.53/-17.68	-15.1/-13.03	-13.33/-16.42	-19.76/-18.41
Θ(172.5°)	-18.37/-18	-18.03/-18.9	-18.9/-18.02	-17.78/-18.26	-19.08/-18.55	-17.49/-18.29	-19.01/-18.66	-18.67/-18.59	-18.57/-19.02	-18.88/-17.63	-17.42/-19.16	-19.03/-18.16	-18.26/-18.18	-19.56/-17.41	-17.42/-18.05	-18.37/-17.35	-18.23/-18.03	-19.03/-18.98	-17.99/-19.76	-18.83/-18.1	-18.62/-19.08	-18.77/-17.77	-18.9/-18.06	-18.93/-18.15
Θ(180°)	-17.17/-17.16	-17.56/-17.2	-18.03/-18.33	-18.34/-18.24	-18.05/-18.16	-18.18/-18.39	-18.52/-19.08	-18.52/-18.37	-18.24/-18.49	-18.61/-18.33	-18.45/-18.64	-17.23/-18.98	-18.51/-17.52	-18.28/-19.12	-18.51/-17.78	-18.87/-18.57	-18.95/-18.03	-18.36/-19.09	-18.17/-18.03	-18.91/-18.82	-17.62/-19.57	-19.34/-16.95	-17.12/-17.76	-18.14/-18.55
Freq(Hz)	6.995GPol.	Theta/Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-1.12/-1.13	-1.46/-2.02	-2.58/-3.25	-4.32/-5.47	-6.37/-8.07	-9.97/-11.97	-13.07/-13.72	-13.42/-11.41	-9.18/-7.88	-6.83/-5.71	-3.97/-3.36	-3.53/-2.9	-3.03/-2.67	-2.71/-3.46	-4.15/-4.32	-5.13/-5.71	-7.07/-8.29	-9.67/-10.64	-10.99/-10.28	-8.25/-6.4	-4.82/-7.77	-2.88/-1.79	-1.54/-1.63	-1.02/-0.82
Θ(7.5°)	-3.54/-3	-2.43/-2.71																						