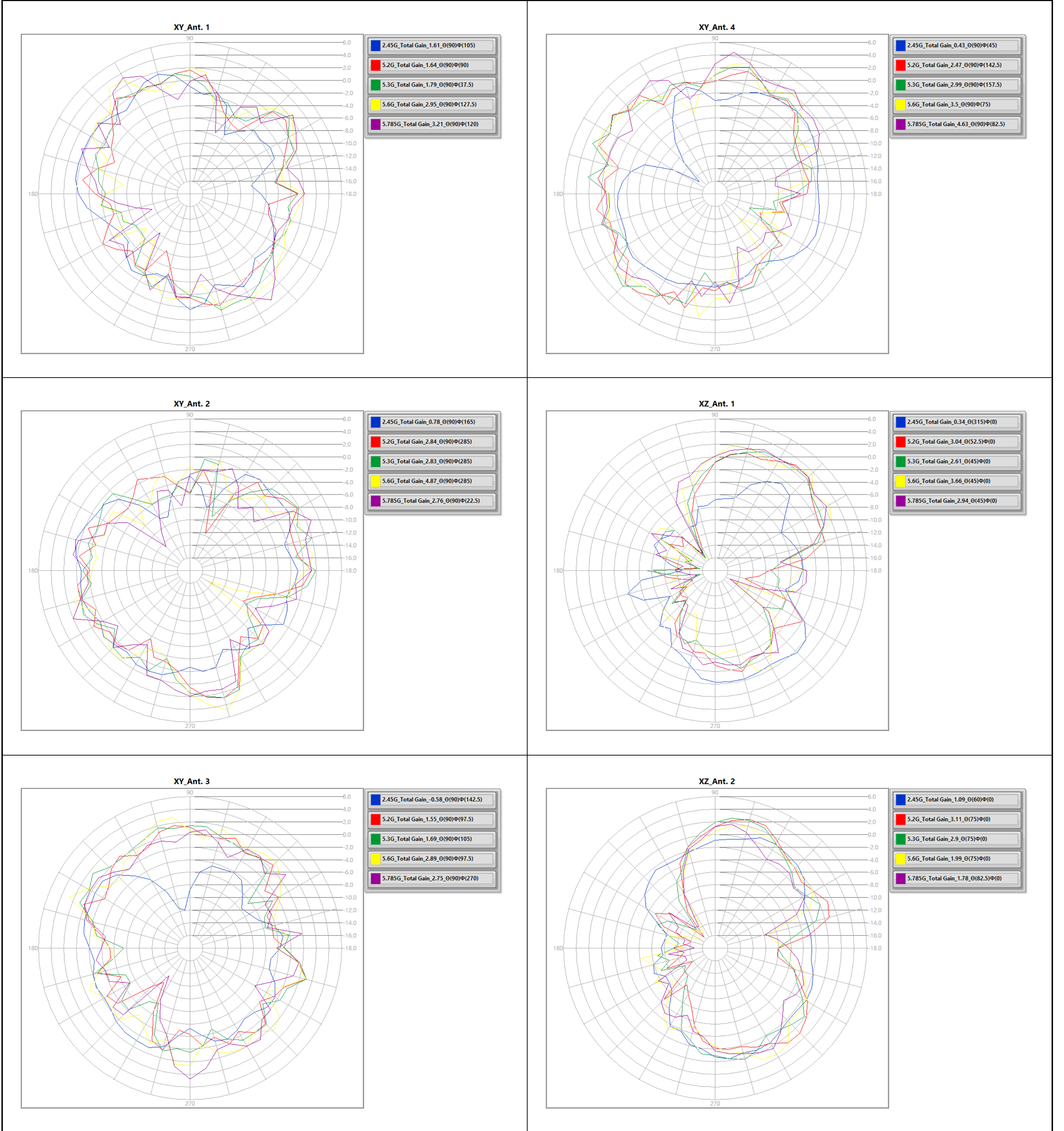
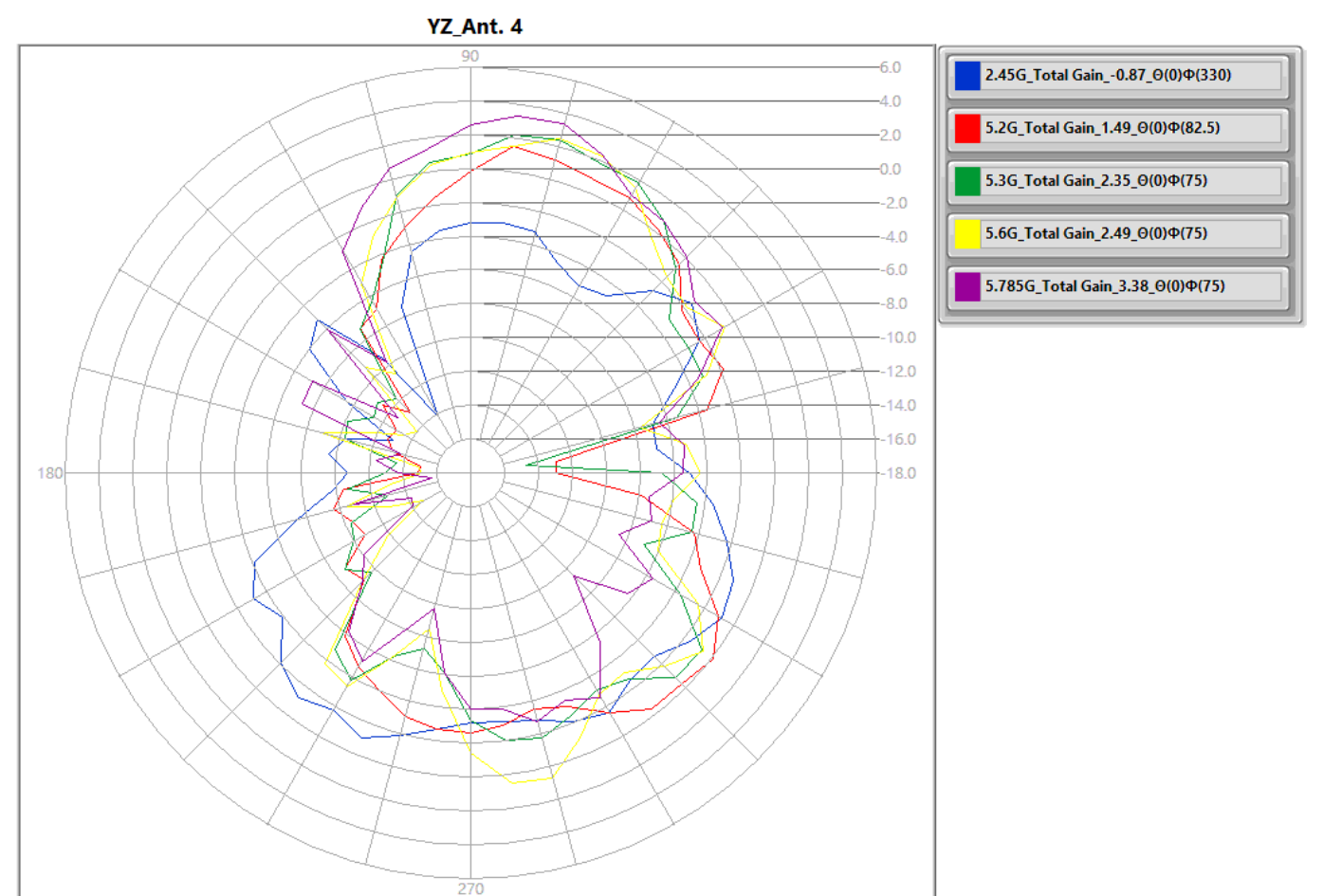
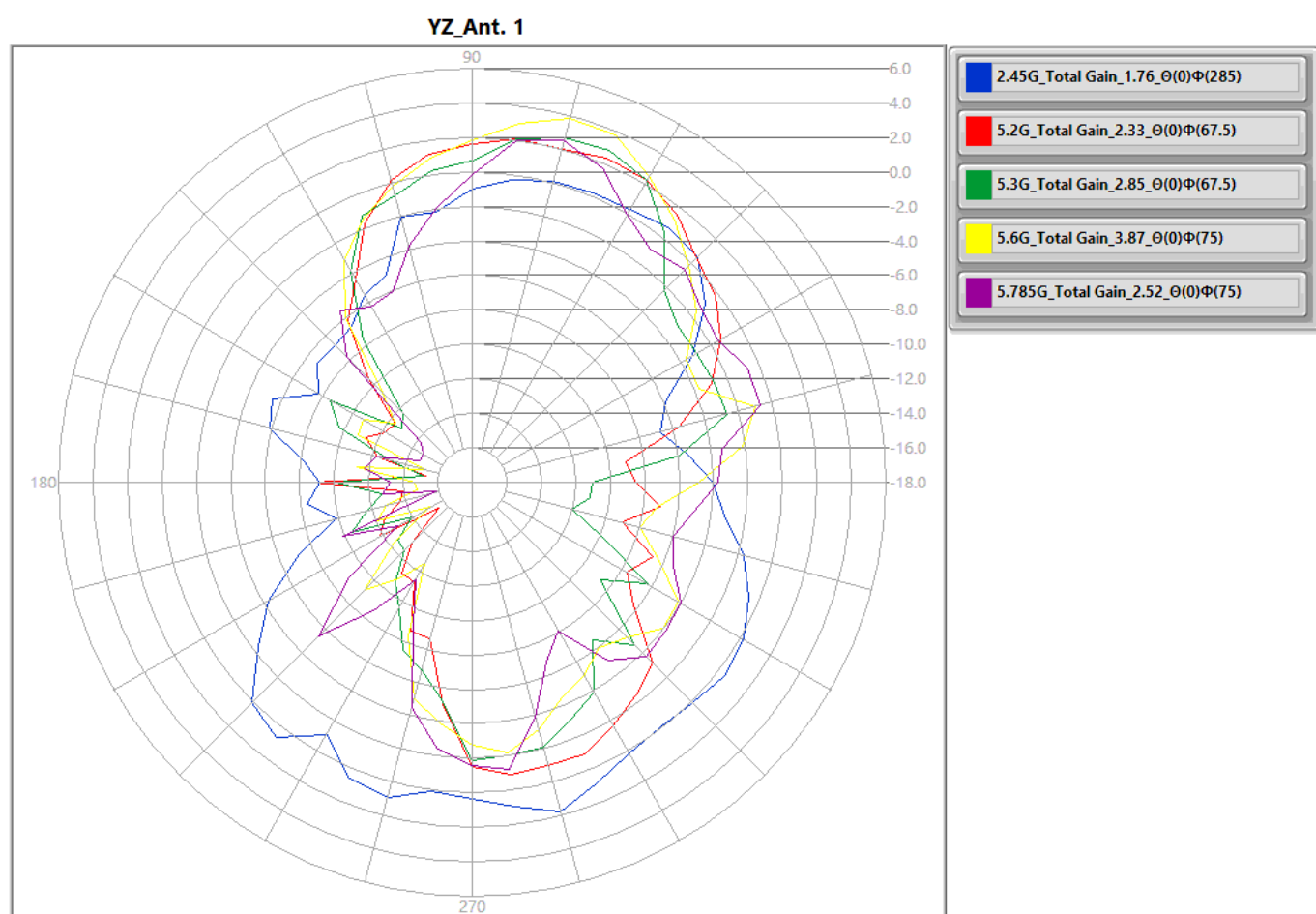
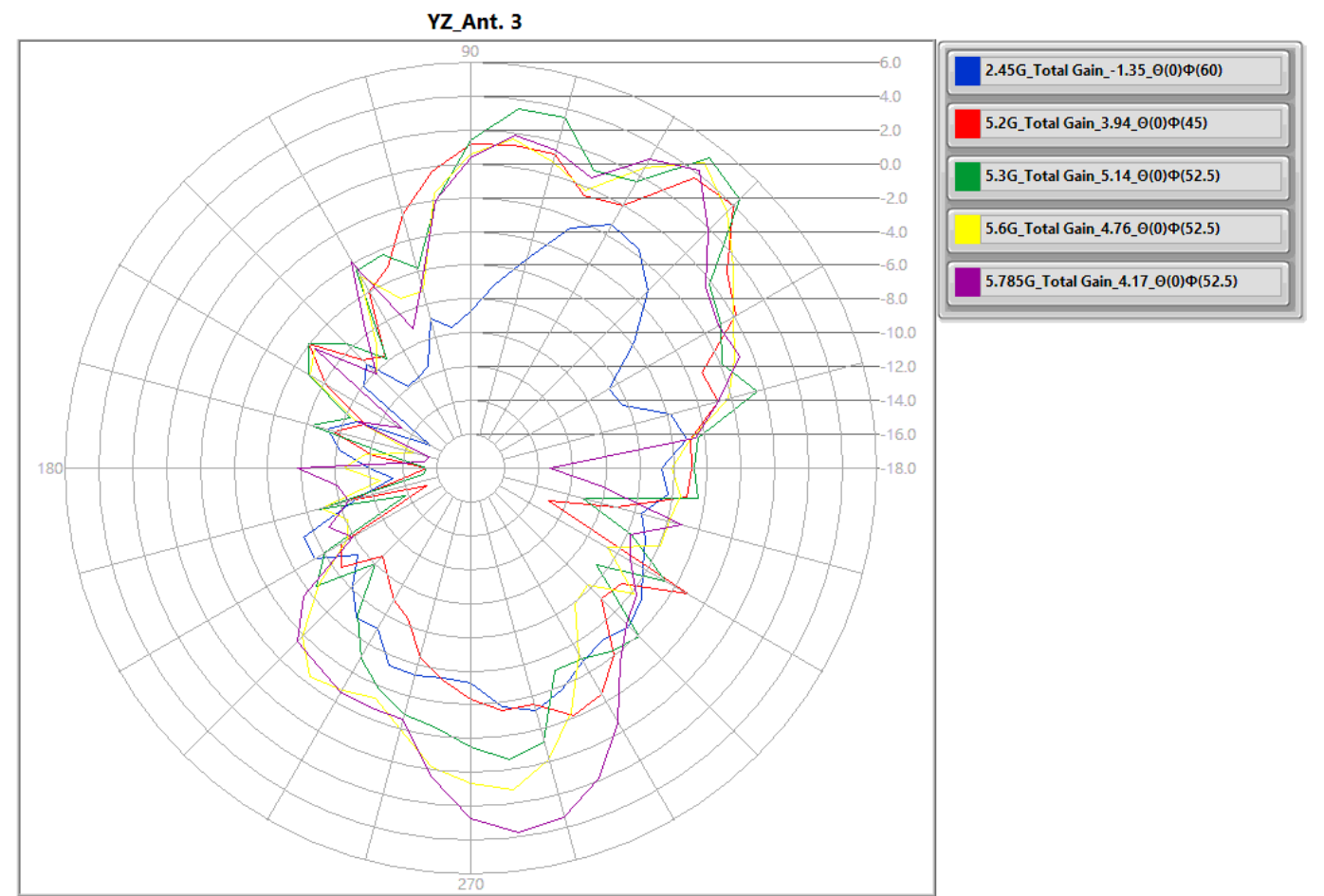
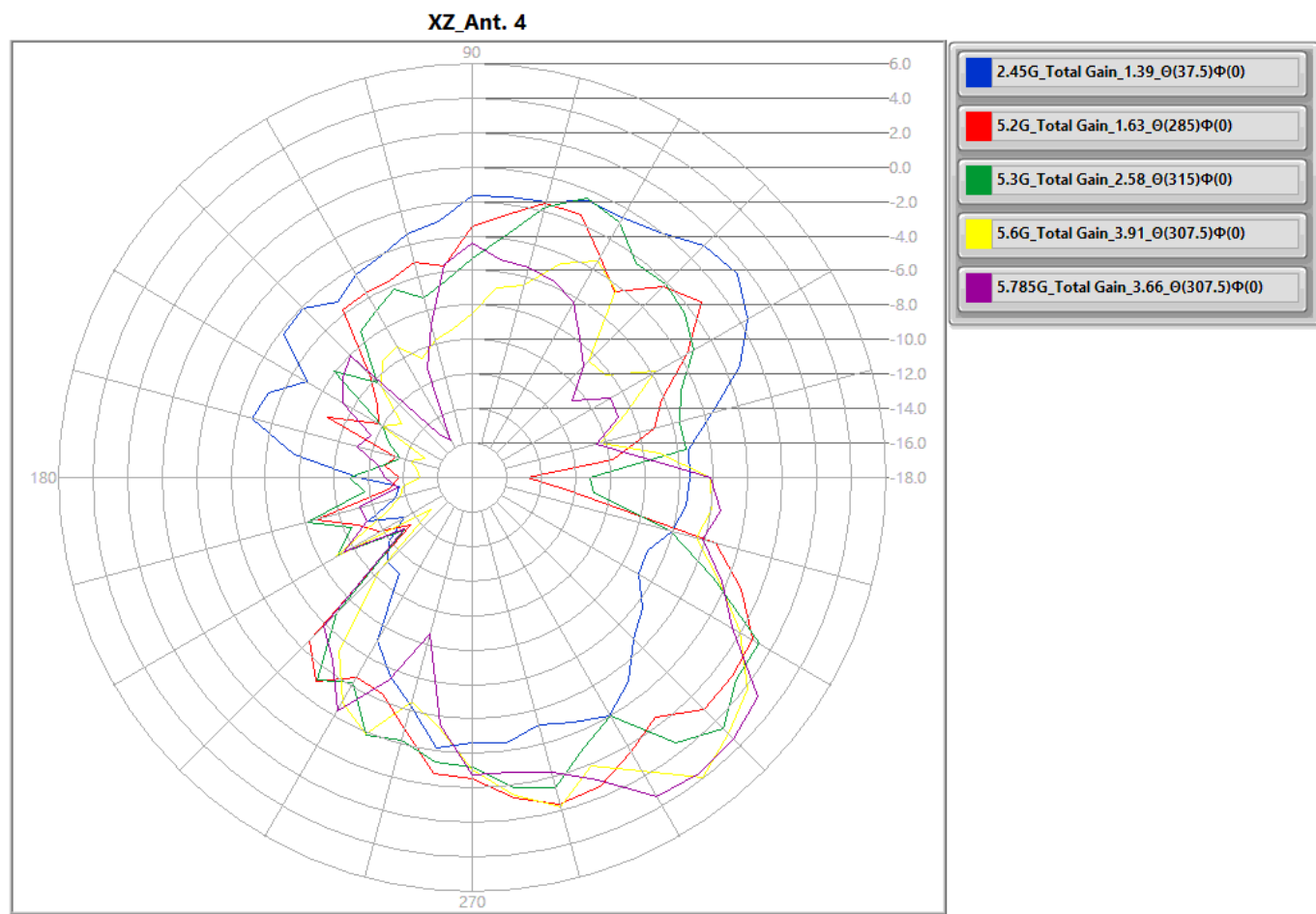
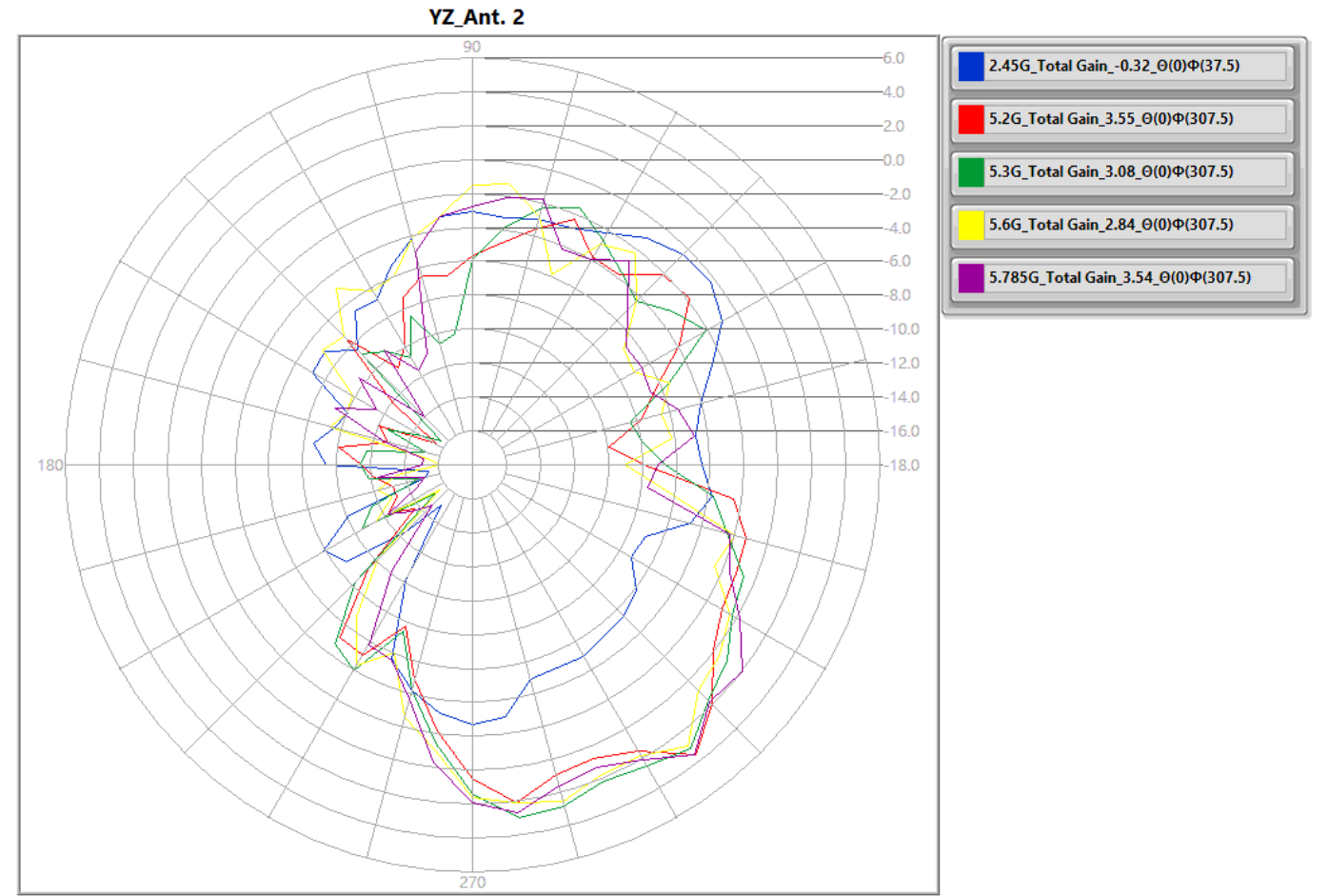
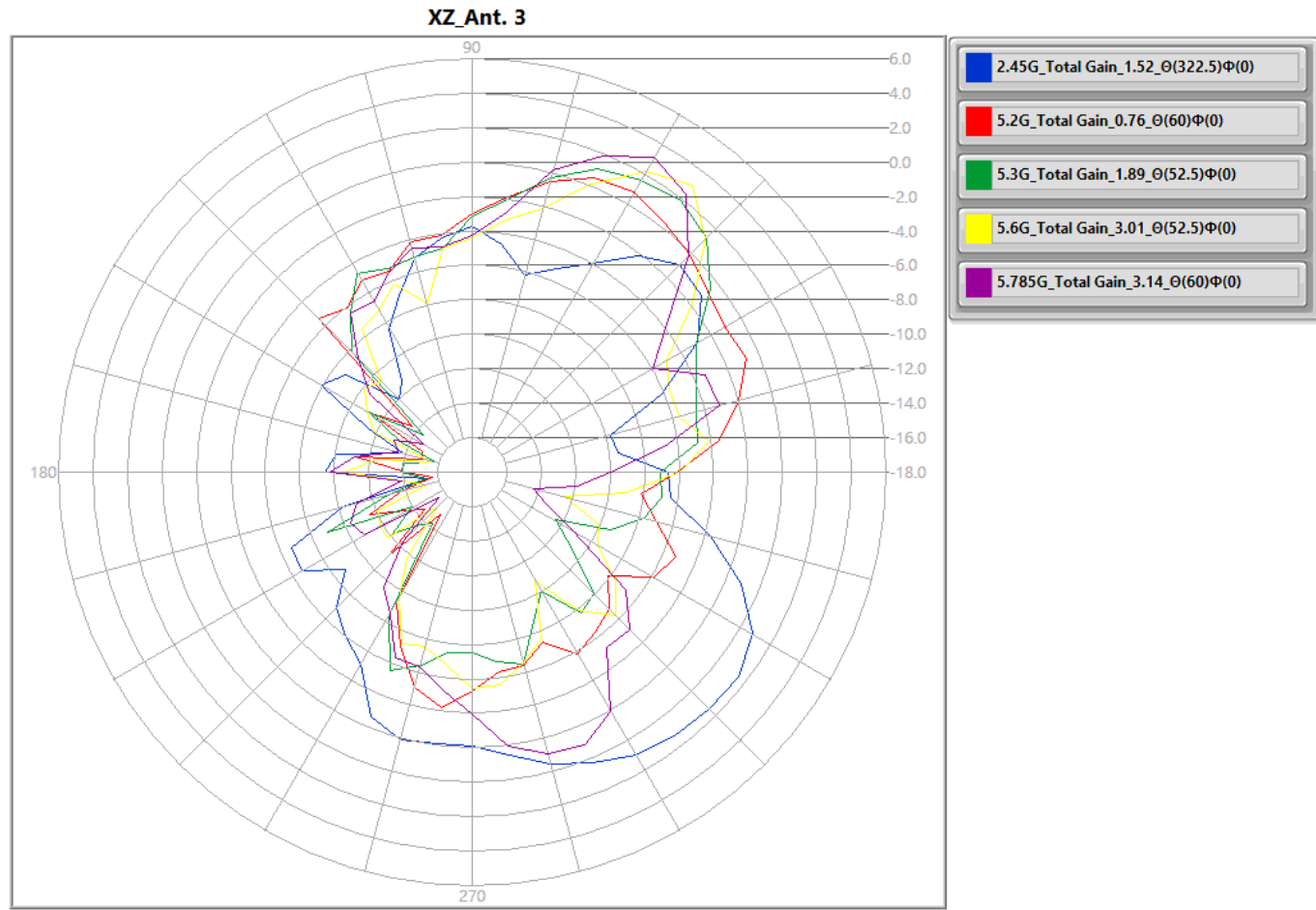


E1(XY plane) – $\Theta(90)\Phi(0-360)$
E2(XZ plane) – $\Theta(0-180)\Phi(0)$ and $\Theta(0-180)\Phi(180)$
E3(YZ plane) – $\Theta(0-180)\Phi(90)$ and $\Theta(0-180)\Phi(270)$





Total Gain Data

[illegible]



Antenna Pattern_5G6G

Appendix H

Θ(22.5°)	-5.80/-7.87	-8.82/-9.36	-6.28/-3.79	-3.22/-3.10	-2.35/-1.75	-2.36/-2.75	-3.38/-3.72	-4.80/-4.71	-5.19/-6.23	-6.33/-5.20	-4.03/-3.13	-2.87/-4.80	-7.57/-9.73	-8.99/-10.00	-11.18/-13.06	-13.15/-12.88	-12.46/-13.41	-11.61/-11.74	-10.73/-8.94	-8.85/-7.76	-6.11/-6.01
Θ(30°)	-3.04/-4.68	-6.31/-5.24	-3.31/-2.42	-2.70/-2.87	-3.47/-4.32	-4.83/-5.31	-2.21/-1.79	-1.58/-3.21	-4.50/-4.23	-2.47/-2.70	-4.43/-3.26	-1.05/-1.92	-3.88/-6.93	-7.22/-7.56	-7.65/-9.08	-11.16/-15.13	-12.20/-6.58	-7.32/-7.18	-8.15/-6.17	-4.60/-5.33	-9.05/-15.29
Θ(142.5°)	-0.78/-1.10	-2.62/-3.47	-4.73/-3.16	-1.81/-1.51	-2.98/-5.00	-5.02/-5.38	-4.63/-4.45	-1.76/-1.60	0.08/-0.43	-0.87/-5.00	-4.37/-3.46	-4.33/-4.11	-5.32/-9.94	-8.90/-8.05	-7.43/-5.11	-6.71/-12.40	-11.48/-8.15	-7.59/-8.06	-10.17/-7.36	-3.01/-3.53	-4.89/-13.11
Θ(45°)	0.42/-1.13	-1.54/-2.43	-2.71/-2.0	0.02/-4.49	-6.73/-4.91	-2.85/-4.07	-0.60/-0.39	-3.98/-3.25	0.23/-2.45	-0.17/-3.25	-5.10/-2.85	-1.91/-1.77	-1.45/-4.68	-5.07/-4.35	-3.57/-0.25	-0.91/-1.97	-3.04/-1.24	-0.89/-1.58	-2.65/-1.15	-2.16/-3.82	-4.17/-8.23
Θ(52.5°)	-0.26/-0.45	1.06/-2.35	-2.27/-0.56	-0.52/-1.34	-3.10/-3.78	-1.33/-0.46	0.21/-1.27	-1.42/-0.11	0.34/-0.13	-0.42/-0.71	-0.96/-0.44	-1.00/-1.47	-4.76/-4.94	-1.38/-0.55	-1.20/-0.17	-2.24/-2.69	-1.49/-0.90	0.17/-0.59	-1.54/-3.04	-4.33/-6.01	-5.27/-1.48
Θ(60°)	1.05/-2.34	1.70/-2.02	-3.06/-2.70	-0.78/-0.94	-3.01/-2.73	-0.59/-0.54	-0.88/-2.27	-5.26/-0.67	1.18/-0.37	-0.76/-0.37	2.11/-0.76	-0.67/-0.64	-2.06/-4.80	-5.20/-5.95	-5.20/-3.06	-4.83/-1.42	-5.04/-5.94	-0.78/-0.80	-2.49/-1.55	-3.45/-1.99	-5.66/-4.40
Θ(67.5°)	3.19/-2.78	1.97/-0.51	-2.64/-2.43	-0.50/-2.06	-1.47/-3.29	-1.86/-1.01	-1.16/-2.04	-3.50/-2.35	-0.25/-0.41	0.48/-1.17	1.31/-0.32	1.13/-0.30	-0.61/-2.98	-5.31/-5.49	-2.34/-4.30	-6.95/-4.08	-9.97/-8.67	-1.85/-1.58	-2.05/-0.94	-5.21/-2.99	-4.09/-2.41
Θ(75°)	3.33/-2.40	2.60/-0.50	-1.78/-0.77	-1.12/-1.40	0.84/-1.16	-4.09/-1.94	-3.50/-3.83	-2.02/-1.69	-1.00/-0.83	1.07/-2.10	-0.31/-1.67	1.25/-2.55	1.82/-0.84	-1.23/-5.43	-4.59/-4.37	-2.17/-6.34	-7.03/-4.63	-2.33/-0.30	0.93/-1.92	-5.77/-2.87	-3.61/-1.35
Θ(82.5°)	3.60/-2.69	2.62/-0.39	-0.79/-0.66	-0.65/-0.12	1.34/-0.54	-4.63/-2.89	-2.81/-3.13	-2.18/-0.56	0.07/-0.75	1.34/-1.65	-0.96/-2.53	1.74/-2.77	2.67/-0.70	-0.40/-1.11	-5.05/-2.98	-1.80/-5.94	-3.80/-0.70	-2.18/-1.41	3.09/-2.57	-6.75/-2.67	-3.93/-3.06
Θ(90°)	3.13/-2.09	2.28/-0.33	-0.99/-0.59	-0.80/-0.20	1.08/-0.15	-3.91/-2.60	-0.96/-1.71	-1.71/-0.13	-0.39/-0.01	0.79/-0.74	0.04/-1.90	2.07/-2.36	2.14/-0.59	-2.17/-2.90	-7.23/-2.39	-0.89/-2.53	-3.33/-0.27	-1.27/-2.08	3.52/-2.16	-8.18/-3.55	-5.07/-4.51
Θ(97.5°)	1.74/-1.02	1.42/-0.11	-1.89/-1.40	-0.66/-0.34	0.56/-0.12	-4.51/-2.54	-1.64/-0.93	-2.11/-0.90	-0.37/-0.55	0.57/-1.23	0.62/-0.81	1.16/-1.53	0.56/-1.63	-2.99/-3.79	-8.19/-3.95	-3.26/-4.72	-6.91/-0.25	-1.15/-0.00	2.14/-0.62	-10.41/-5.80	-4.72/-6.29
Θ(105°)	-0.47/-0.20	-0.04/-0.13	-2.77/-2.53	-0.82/-0.36	-1.00/-1.27	-3.47/-4.08	-2.81/-1.98	-2.33/-0.23	-1.39/-2.47	-0.23/-1.83	0.26/-0.98	-0.42/-0.98	-0.83/-2.85	-4.84/-2.19	-10.31/-7.12	-5.12/-7.30	-7.22/-6.18	-4.13/-6.39	-3.09/-8.33	-12.04/-8.73	-7.71/-5.94
Θ(112.5°)	-4.70/-1.57	-2.66/-2.01	-2.19/-2.82	-2.20/-0.72	-1.48/-2.34	-3.02/-2.78	-4.02/-3.01	-1.79/-0.84	-1.84/-2.27	-2.13/-1.06	-1.26/-2.11	-0.46/-2.57	-3.66/-2.05	-5.66/-5.88	-8.69/-10.39	-5.02/-5.33	-5.41/-10.90	-12.36/-8.05	-10.80/-13.97	-11.49/-7.45	-6.59/-8.02
Θ(120°)	-5.95/-4.42	-4.45/-3.79	-2.83/-3.11	-2.62/-0.02	-0.77/-2.52	-2.04/-2.42	-3.77/-5.91	-2.46/-2.90	-2.86/-3.50	-2.12/-1.19	-1.68/-4.65	-2.94/-3.20	-7.62/-5.32	-4.28/-8.00	-10.52/-4.92	-5.59/-10.36	-3.69/-8.90	-7.04/-6.82	-7.51/-8.58	-9.78/-6.68	-3.95/-8.30
Θ(127.5°)	-5.70/-5.32	-4.80/-3.16	-5.13/-2.59	-3.29/-0.88	-0.05/-1.76	-3.62/-4.14	-5.15/-3.89	-2.91/-3.34	-2.23/-0.36	-1.39/-2.47	-3.51/-4.07	-6.32/-7.63	-4.87/-8.03	-11.02/-13.98	-12.90/-7.46	-4.27/-8.93	-10.01/-10.98	-4.86/-7.30	-6.73/-13.25	-12.96/-6.96	-10.89/-6.56
Θ(135°)	-6.46/-3.74	-4.93/-3.57	-4.48/-3.66	-2.68/-3.22	-2.28/-3.14	-3.90/-2.60	-2.86/-2.87	-3.73/-2.19	-1.31/-3.77	-4.07/-4.31	-4.88/-6.33	-4.62/-5.10	-10.33/-9.70	-9.22/-6.04	-7.92/-14.64	-7.50/-7.97	-14.56/-10.02	-4.77/-9.39	-12.35/-11.87	-9.01/-7.06	-13.30/-3.84
Θ(142.5°)	-7.83/-4.29	-4.33/-4.25	-3.27/-2.78	-4.07/-0.46	-3.14/-2.33	-5.24/-6.58	-7.01/-5.96	-4.36/-4.15	-6.71/-7.40	-6.21/-5.48	-3.37/-3.38	-6.73/-6.86	-6.68/-9.62	-8.51/-7.34	-5.56/-11.14	-5.86/-11.24	-12.40/-10.79	-13.17/-8.08	-4.99/-10.19	-7.10/-11.69	-6.81/-9.77
Θ(150°)	-7.18/-5.12	-5.25/-2.04	-4.49/-5.18	-5.44/-4.19	-4.36/-3.84	-3.04/-3.84	-5.11/-8.37	-6.16/-3.80	-3.52/-4.44	-2.89/-6.22	-11.45/-7.24	-4.98/-4.98	-6.22/-8.96	-6.09/-14.53	-11.72/-11.17	-11.89/-11.04	-12.22/-10.21	-13.78/-15.39	-13.95/-11.32	-7.55/-9.93	-16.27/-15.09
Θ(157.5°)	-5.62/-4.74	-6.36/-9.38	-8.47/-5.41	-4.30/-4.88	-5.02/-4.88	-5.04/-4.92	-5.79/-5.00	-5.68/-6.21	-4.84/-6.17	-7.01/-7.14	-5.02/-4.80	-6.67/-9.68	-9.86/-9.92	-14.76/-14.36	-7.97/-8.17	-9.18/-11.40	-15.15/-16.06	-14.82/-14.38	-15.47/-12.70	-11.81/-14.48	-13.77/-13.21
Θ(165°)	-12.22/-10.45	-9.48/-8.08	-7.29/-5.85	-4.76/-4.80	-3.58/-4.84	-4.98/-6.55	-6.77/-5.93	-8.33/-8.26	-7.78/-9.60	-4.92/-4.08	-3.83/-5.92	-8.79/-10.80	-7.01/-14.24	-4.36/-4.75	-9.45/-15.28	-10.62/-11.55	-8.59/-13.03	-8.87/-11.53	-9.75/-11.12	-10.40/-13.19	-12.82/-14.38
Θ(172.5°)	-6.74/-8.48	-10.77/-11.79	-12.64/-12.06	-10.50/-10.63	-9.23/-9.05	-7.87/-9.28	-9.56/-9.55	-7.99/-8.33	-4.48/-3.76	-4.49/-5.11	-6.40/-9.85	-13.48/-14.70	-10.46/-8.36	-8.79/-8.52	-8.80/-10.32	-9.24/-9.35	-10.15/-10.80	-10.38/-11.50	-11.95/-12.24	-10.84/-8.79	-8.61/-8.15
Θ(180°)	-6.40/-7.13	-2.47/-7.95	-8.12/-9.18	-8.56/-8.54	-9.02/-8.01	-8.22/-7.30	-9.26/-8.76	-8.72/-8.50	-9.89/-11.73	-13.15/-15.24	-14.73/-12.15	-11.91/-13.03	-14.73/-14.79	-14.07/-11.45	-8.26/-8.09	-7.87/-7.01	-8.43/-9.67	-10.80/-10.48	-9.48/-9.80	-8.49/-8.84	-10.20/-8.89
Freq(Hz)	6.475GPol.	TotalAnt.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°)
Θ(0°)	-9.49/-8.71	-8.67/-10.37	-11.05/-10.35	-11.55/-11.08	-12.03/-11.91	-10.91/-12.35	-9.60/-12.14	-9.15/-9.11	-10.49/-9.39	-9.98/-11.00	-11.27/-11.08	-10.40/-10.59	-10.26/-8.91	-9.98/-9.54	-9.73/-11.96	-9.44/-10.18	-8.89/-10.22	-9.74/-9.84	-9.81/-9.72	-10.13/-9.72	
Θ(7.5°)	-10.17/-10.41	-10.79/-11.17	-10.89/-10.83	-11.21/-12.97	-11.57/-10.10	-12.93/-11.07	-12.38/-11.38	-12.83/-12.04	-11.87/-11.25	-10.40/-10.34	-10.67/-9.98	-9.32/-9.73	-10.30/-10.79	-12.99/-13.83	-14.26/-13.55	-13.18/-11.89	-10.94/-9.86	-10.38/-9.06	-10.16/-9.74	-8.72/-8.74	
Θ(15°)	-9.39/-8.56	-9.12/-8.67	-8.23/-6.83	-6.18/-4.47	-5.08/-4.90	-4.78/-6.28	-6.58/-6.37	-9.91/-8.47	-10.63/-14.26	-14.80/-13.20	-13.22/-14.29	-15.02/-15.61	-15.82/-14.93	-14.56/-14.89	-13.74/-15.13	-14.52/-13.07	-15.09/-14.31	-13.33/-12.08	-10.02/-8.45	-8.88/-10.43	
Θ(22.5°)	-11.98/-12.28	-8.15/-5.56	-4.64/-4.47	-4.65/-5.22	-5.41/-7.24	-5.63/-7.07	-5.24/-4.30	-4.46/-4.60	-6.64/-6.95	-7.25/-10.67	-10.47/-10.19	-7.10/-5.65	-6.29/-9.96	-13.18/-12.98	-12.99/-15.00	-15.53/-15.01	-15.83/-15.23	-15.35/-13.77	-14.73/-11.64	-10.82/-9.91	
Θ(30°)	-5.13/-4.49	-4.96/-3.74	-3.92/-3.35	-3.07/-6.49	-6.55/-6.89	-10.69/-8.82	-7.51/-2.46	-3.85/-3.01	-5.44/-6.03	-7.27/-4.57	-3.57/-4.57	-5.32/-6.05	-4.42/-5.41	-6.94/-10.30	-10.76/-7.91	-8.16/-11.31	-8.86/-7.97	-7.78/-7.34	-6.59/-5.53	-4.74/-6.73	
Θ(37.5°)	-2.01/-5.35	-7.04/-6.78	-3.65/-2.51	-2.45/-7.05	-9.18/-5.72	-5.26/-2.33	-0.89/-1.51	-4.27/-5.78	-4.20/-6.00	-0.99/-1.74	-3.86/-5.13	-4.01/-4.91	-5.77/-9.28	-9.81/-8.15	-6.08/-7.32	-12.79/-14.42	-10.68/-8.30	-6.53/-7.96	-7.70/-6.62	-5.39/-4.49	
Θ(45°)	-2.24/-2.30	-3.02/-6.12	-3.88/-2.63	-4.64/-3.26	-2.64/-2.44	-3.05/-2.78	-1.95/-1.90	-2.61/-4.80	-3.71/-4.14	0.59/-0.20	-3.29/-5.22	-5.91/-7.36	-9.80/-6.65	-5.77/-3.11	-1.72/-2.82	-4.06/-3.90	-4.03/-1.25	-0.96/-1.23	-2.81/-4.23	-3.58/-10.80	
Θ(52.5°)	1.84/-1.48	-1.69/-4.22	-1.54/-3.85	-3.39/-2.36	-3.21/-2.73	-1.11/-1.20	-1.49/-1.68	-3.28/-1.93	-0.42/-3.32	-1.94/-1.83	-0.72/-3.40	-0.88/-2.05	-4.48/-5.04	-8.78/-6.84	-4.73/-1.24	-0.95/-0.56	-1.85/-3.14	-3.16/-0.03	0.30/-0.02	-0.75/-1.47	
Θ(60°)	3.353 /1.1	0.66/-1.40	-0.39/-0.70	-1.46/-1.46	-2.67/-2.95	-2.89/-3.36	-2.05/-2.12	-0.82/-3.16	-0.83/-0.60	-3.18/-2.85	-1.17/-2.40	-0.49/-0.36	-2.30/-5.43	-9.23/-8.44	-3.88/-3.59	-4.24/-0.79	-2.79/-5.47	-3.78/-2.71	-1.09/-3.07	-2.29/-1.07	
Θ(67.5°)	2.76/-2.97	0.83/-2.45	0.83/-0.64	-1.30/-2.15	-1.70/-1.13	-3.32/-3.72	-3.46/-4.78	-3.60/-0.88	-0.13/-2.12	-1.83/-1.24	-2.39/-1.40	0.84/-1.13	-2.12/-5.67	-4.71/-4.97	-1.62/-2.21	-6.28/-1.19	-7.06/-10.87	-4.28/-4.77	-2.92/-2.28	-2.51/-2.97	
Θ(75°)	2.35/-2.03	0.43/-1.77	0.65/-0.17	-1.72/-3.97	-1.37/-1.97	-4.41/-3.37	-2.55/-1.96	-2.54/-1.48	0.98/-1.35	-1.57/-0.07	-1.01/-2.02	2.29/-1.41	-0.66/-6.22	-2.58/-3.42	-2.25/-0.66	-3.85/-2.22	-5.91/-3.20	-4.08/-3.18	-0.95/-0.32	-4.50/-2.70	
Θ(82.5°)	0.84/-0.61	-0.11/-1.82	0.76/-0.11	-2.26/-5.21	-2.23/-3.54	-3.92/-3.77	-4.98/-1.93	-0.27/-0.83	0.81/-0.27	-0.00/-0.16	0.35/-1.95	2.51/-1.39	0.23/-0.27	-2.18/-2.18	-2.59/-0.65	-2.38/-1.91	-3.09/-9.1	-3.05/-0.97	1.53/-1.51	-2.99/-5.28	
Θ(90°)	-0.65/-0.17	-1.04/-1.51	-0.13/-0.76	-2.42/-3.47	-2.71/-4.32	-4.04/-5.18	-7.99/-2.72	-1.66/-0.46	0.95/-0.51	1.45/-1.00	1.57/-0.17	2.87/-1.48	-0.03/-0.19	-1.69/-3.27	-5.48/-1.53	-6.03/-0.72	-2.76/-1.77	-0.57/-0.16	2.23/-2.22	-3.84/-5.66	
Θ(97.5°)	-0.22/-0.97	-1.18/-1.76	-0.62/-1.72	-2.64/-3.26	-2.54/-4.90	-3.13/-5.80	-6.71/-3.56	-2.79/-0.17	0.29/-0.26	1.06/-0.13	0.65/-0.41	2.02/-0.96	-0.11/-2.04	-3.62/-4.27	-7.09/-4.27	-1.61/-3.65	-5.74/-0.70	-1.35/-2.28	0.65/-1.47	-6.29/-6.01	
Θ(105°)	-1.26/-1.83	-1.62/-2.35	-2.11/-2.14	-2.88/-3.25	-2.68/-4.95	-4.83/-3.91	-9.13/-4.72	-4.15/-0.66	0.07/-0.88	1.01/-0.49	0.12/-1.93	1.21/-0.29	-0.41/-1.75	-2.80/-4.54	-10.61/-6.67	-2.38/-6.17	-9.42/-10.90	-6.28/-8.33	-11.39/-9.47	-9.15/-6.33	
Θ(112.5°)	-1.72/-1.33	-2.10/-2.72	-3.01/-3.83	-4.54/-2.98	-2.49/-5.39	-4.54/-3.10	-6.23/-4.94	-2.80/-1.64	-2.43/-0.98	0.84/-1.04	0.14/-4.79	-0.37/-3.41	-2.82/-5.63	-2.72/-9.06	-10.70/-9.79	-6.33/-3.35					



Antenna Pattern_5G6G

Appendix H

θ(75°)	-1.71/2.98	-0.52/0.65	-1.36/0.52	0.08/0.84	-4.08/6.35	-1.05/0.55	-4.00/-1.11	-0.81/1.96	-3.69/-2.25	-1.09/-0.72	-1.71/-1.40	0.94/3.04	2.21/0.60	-1.33/-5.28	-3.99/-2.94	-4.73/-3.54	-8.19/-4.29	-3.29/-2.71	-4.11/-2.70	-1.49/-1.86	-1.35/0.37	1.35/0.38	-2.39/-1.05	-0.32/0.15
θ(82.5°)	-2.27/2.29	-0.34/-1.07	-1.81/-1.59	-1.17/-1.22	-4.48/-9.39	-2.08/-1.85	-4.90/-1.87	-1.20/-3.47	-4.26/-2.77	-2.44/-3.42	-3.24/-2.40	0.93/2.44	0.48/-0.56	-2.38/-4.90	-6.16/-4.15	-3.75/-5.59	-6.71/-4.93	-3.78/-1.96	-3.84/-1.23	-2.26/-3.48	-1.80/0.13	0.94/0.22	-2.28/-1.86	-1.13/-0.79
θ(90°)	-3.36/-4.09	-0.88/-1.49	-2.19/-2.96	-2.35/-2.01	-4.42/-8.85	-2.62/-2.86	-5.55/-2.65	-1.00/-3.67	-6.90/-2.94	-3.63/-6.27	-0.69/-2.68	0.46/0.04	-2.12/-0.07	-1.56/-3.19	-7.08/-4.00	-2.44/-5.78	-6.12/-4.64	-5.28/-1.67	-3.47/-1.72	-2.07/-4.50	-2.57/-0.86	-0.43/-0.33	-2.70/-3.00	-2.29/-1.98
θ(97.5°)	-4.06/-3.71	-1.80/-1.55	-2.52/-4.97	-3.14/-1.30	-5.18/-8.95	-3.46/-4.41	-5.28/-4.59	-2.90/-4.59	-8.35/-4.16	-4.39/-8.33	-7.74/-3.55	-0.66/-6.23	-5.38/-0.45	-1.88/-2.51	-4.93/-3.07	-1.79/-5.60	-6.68/-5.99	-6.58/-1.40	-2.51/-2.75	-4.59/-5.79	-2.94/-1.71	-2.19/-0.51	-2.85/-5.87	-4.58/-3.25
θ(105°)	-4.14/-3.59	-2.60/-1.45	-2.09/-5.22	-4.51/-1.93	-3.96/-8.86	-3.77/-4.93	-5.50/-5.53	-6.22/-6.17	-8.90/-6.13	-8.04/-8.56	-6.81/-3.70	-2.21/-5.68	-6.12/-0.50	-2.45/-3.81	-5.99/-4.03	-2.15/-10.08	-6.54/-10.70	-14.49/-2.43	-5.35/-4.82	-6.59/-7.08	-4.37/-3.62	-3.08/-1.24	-5.25/-8.40	-4.56/-3.44
θ(112.5°)	-3.37/-2.97	-1.87/-1.82	-3.46/-4.81	-2.62/-2.98	-6.56/-8.15	-5.39/-5.26	-6.84/-7.52	-8.40/-6.48	-5.95/-10.86	-10.08/-8.01	-5.48/-6.30	-5.74/-8.16	-8.35/-4.52	-7.84/-9.78	-11.67/-6.18	-13.44/-11.55	-13.44/-13.19	-8.41/-5.84	-6.61/-5.84	-9.31/-9.35	-6.45/-3.82	-4.83/-2.74	-6.17/-10.18	-7.39/-5.53
θ(120°)	-3.19/-3.62	-2.32/-2.92	-4.26/-3.97	-3.51/-4.69	-7.55/-7.83	-5.68/-7.34	-9.37/-8.74	-6.56/-5.82	-7.08/-10.44	-10.18/-6.43	-7.19/-12.05	-13.01/-10.97	-13.02/-11.52	-12.88/-12.36	-13.82/-10.99	-15.59/-9.63	-14.68/-12.49	-9.42/-7.31	-9.71/-8.61	-12.02/-14.47	-6.37/-4.34	-7.09/-4.30	-7.32/-10.25	-9.49/-4.08
θ(127.5°)	-2.74/-4.62	-4.50/-4.95	-4.35/-4.67	-5.98/-7.79	-9.07/-11.59	-8.10/-9.00	-11.65/-8.39	-6.19/-5.75	-10.03/-10.02	-6.38/-3.67	-11.39/-10.08	-7.01/-6.75	-10.29/-11.73	-7.74/-8.49	-9.70/-9.70	-9.21/-5.49	-9.79/-13.34	-9.29/-8.71	-7.84/-8.24	-11.07/-10.33	-8.61/-6.76	-4.72/-3.81	-6.55/-10.62	-10.26/-4.06
θ(135°)	-2.10/-4.37	-7.14/-6.37	-5.76/-5.52	-5.68/-6.85	-9.07/-10.28	-9.83/-12.01	-11.35/-7.90	-9.02/-8.05	-7.76/-9.03	-8.82/-10.97	-9.07/-6.56	-5.79/-6.75	-9.12/-7.36	-6.44/-7.19	-7.79/-10.35	-10.72/-12.09	-15.50/-13.45	-11.51/-10.73	-10.98/-10.05	-11.82/-11.25	-9.60/-5.55	-4.80/-3.65	-5.97/-9.73	-6.84/-3.32
θ(142.5°)	-3.60/-3.64	-6.46/-7.96	-7.49/-6.97	-7.44/-8.57	-10.23/-12.89	-10.25/-10.63	-11.25/-11.76	-15.33/-10.66	-8.18/-7.14	-8.64/-9.02	-8.03/-6.92	-9.56/-9.68	-7.73/-7.82	-12.68/-14.78	-14.39/-13.37	-15.20/-14.77	-12.88/-10.98	-10.89/-9.04	-8.75/-10.91	-11.59/-7.90	-9.49/-8.29	-9.23/-9.36	-9.80/-8.51	-5.78/-4.38
θ(150°)	-2.75/-6.53	-6.57/-6.97	-7.37/-8.03	-7.40/-7.69	-9.14/-9.22	-9.45/-11.27	-14.79/-15.24	-11.91/-9.78	-7.91/-7.66	-9.05/-12.12	-15.22/-12.12	-11.03/-10.30	-9.28/-12.22	-14.68/-14.91	-15.50/-14.81	-14.14/-14.12	-9.91/-9.98	-13.81/-10.12	-6.67/-6.52	-8.26/-7.44	-8.19/-9.82	-9.36/-9.90	-7.44/-7.97	-8.87/-5.55
θ(157.5°)	-6.60/-6.84	-7.20/-7.51	-6.86/-6.48	-7.85/-8.61	-7.55/-7.07	-8.55/-10.05	-8.40/-8.25	-9.70/-12.17	-15.46/-13.74	-12.01/-11.20	-12.95/-14.05	-15.23/-15.57	-14.06/-12.25	-14.28/-13.72	-13.69/-11.75	-10.71/-13.62	-12.19/-6.96	-5.64/-6.12	-6.98/-6.13	-5.81/-7.47	-9.90/-11.41	-11.02/-9.48	-8.50/-7.09	
θ(165°)	-8.10/-8.54	-9.25/-8.27	-6.92/-7.49	-9.39/-7.78	-7.26/-10.04	-10.30/-9.47	-9.16/-9.82	-10.85/-12.50	-13.59/-13.90	-12.91/-12.03	-12.47/-13.23	-13.46/-13.94	-13.39/-13.36	-13.79/-12.51	-13.47/-13.21	-12.59/-12.53	-13.99/-13.86	-9.38/-8.18	-8.69/-10.03	-11.00/-11.36	-10.24/-8.80	-9.87/-9.33	-9.50/-9.59	-9.24/-8.85
θ(172.5°)	-11.51/-12.90	-13.37/-12.21	-11.11/-11.94	-11.48/-10.85	-10.79/-9.86	-8.83/-9.15	-9.42/-10.12	-12.71/-13.89	-14.91/-15.55	-15.57/-15.06	-15.47/-16.06	-14.91/-13.96	-13.68/-15.27	-15.02/-13.93	-13.37/-14.09	-12.53/-11.46	-11.36/-9.76	-8.52/-10.09	-11.37/-12.49	-12.70/-12.07	-11.47/-11.09	-11.90/-11.48	-11.13/-11.68	-12.76/-11.90
θ(180°)	-13.89/-13.22	-11.39/-11.35	-11.59/-12.09	-11.58/-9.92	-9.20/-9.70	-9.74/-10.34	-11.74/-13.71	-12.57/-11.16	-11.14/-11.44	-11.90/-12.84	-14.84/-15.61	-15.66/-15.50	-15.07/-12.98	-12.71/-13.26	-12.58/-11.23	-11.88/-13.34	-13.36/-13.41	-13.56/-15.86	-14.88/-11.96	-11.26/-10.11	-9.54/-9.70	-10.49/-11.76	-12.72/-13.55	-12.76/-13.26
Freq(Hz)	5.3GPol.	TotalAnt.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°)	-3.95/-3.38	-3.66/-4.33	-3.83/-2.82	-3.21/-3.75	-3.40/-3.35	-3.55/-3.09	-2.48/-2.89	-3.48/-3.72	-3.44/-3.39	-3.69/-3.61	-3.26/-3.04	-3.01/-3.07	-2.94/-2.85	-2.93/-3.04	-2.80/-3.00	-3.27/-2.68	-2.65/-3.06	-2.56/-1.95	-2.43/-3.20	-3.37/-3.16	-3.46/-3.53	-3.49/-3.85	-3.94/-3.49	-3.50/-3.88
θ(7.5°)	-2.15/-2.31	-2.38/-2.32	-1.95/-1.86	-2.21/-2.06	-1.69/-2.30	-2.40/-2.11	-2.33/-2.78	-3.10/-3.53	-3.93/-4.51	-5.21/-6.02	-6.51/-6.59	-6.27/-5.57	-4.76/-4.76	-4.63/-3.73	-3.12/-2.72	-2.57/-2.92	-2.60/-2.66	-2.71/-2.53	-3.48/-4.59	-5.06/-4.60	-4.79/-4.43	-3.91/-3.57	-3.13/-2.62	-2.43/-2.33
θ(15°)	-0.53/-1.01	-1.11/-1.42	-1.28/-1.63	-2.10/-2.12	-2.37/-2.97	-2.90/-2.72	-2.93/-3.47	-4.33/-5.95	-7.85/-8.62	-7.85/-6.46	-5.08/-4.18	-4.33/-4.59	-4.21/-4.07	-4.75/-5.77	-3.77/-6.89	-6.45/-5.04	-4.96/-3.82	-2.93/-3.81	-6.47/-8.93	-11.33/-8.34	-5.87/-3.84	-2.51/-1.78	-1.21/-0.60	-0.39/-0.36
θ(22.5°)	-5.61/-4.65	-3.87/-3.20	-1.73/-0.25	0.03/-0.72	-1.25/-2.19	-3.08/-2.78	-2.91/-4.31	-6.75/-5.95	-10.27/-6.97	-4.47/-3.12	-2.33/-2.67	-3.58/-3.86	-3.52/-3.26	-3.98/-5.47	-5.59/-5.63	-6.61/-7.27	-6.78/-5.70	-4.09/-4.61	-8.05/-12.59	-9.26/-6.36	-4.74/-4.07	-4.26/-3.52	-5.28/-4.64	-4.84/-5.82
θ(30°)	-3.30/-3.25	-4.35/-4.41	-4.05/-2.64	-1.60/-0.69	-1.01/-2.05	-2.63/-2.59	-2.43/-4.06	-7.06/-6.76	-5.40/-3.93	-4.07/-4.89	-4.47/-3.66	-2.77/-2.05	-1.73/-1.76	-2.474/-0.3	-5.64/-6.63	-5.35/-3.53	-3.43/-3.96	-4.92/-6.18	-11.53/-12.70	-6.36/-3.94	-4.36/-6.17	-5.35/-4.28	-2.84/-2.45	-2.83/-3.34
θ(37.5°)	-2.20/-1.08	-0.95/-1.49	-2.55/-3.82	-5.47/-6.37	-5.27/-4.59	-3.20/-1.52	-1.56/-4.20	-5.09/-3.24	-3.83/-4.82	-4.93/-5.06	-4.22/-4.36	-5.25/-6.29	-6.59/-4.59	-3.03/-3.10	-3.84/-5.17	-7.42/-7.79	-6.03/-5.91	-6.21/-11.06	-11.97/-7.87	-2.85/-2.08	-2.94/-3.33	-2.87/-1.94	-1.90/-3.34	-4.45/-3.59
θ(45°)	-0.02/0.35	0.92/1.21	1.37/1.01	0.27/-1.87	-5.01/-6.86	-4.51/-1.85	-0.64/-2.76	-3.60/-2.95	-5.87/-3.58	-1.30/-2.08	-2.61/-3.67	-2.42/-1.62	-1.11/-1.42	-1.86/-2.56	-4.14/-4.43	-4.54/-4.89	-8.32/-3.95	-2.87/-5.41	-8.33/-2.68	-0.19/0.73	-0.16/-1.72	-3.63/-4.11	-2.29/-1.22	-0.94/-0.73
θ(52.5°)	-2.15/-2.45	-0.25/-1.23	1.69/0.77	-0.00/-0.95	-4.24/-7.51	-3.32/-1.55	-0.47/-0.45	-1.75/-4.32	-5.00/-0.67	-0.67/-1.99	0.21/0.78	1.52/1.04	0.28/-1.07	-1.18/-2.63	-4.70/-7.59	-6.51/-7.60	-7.36/-2.56	-1.75/-4.26	-5.76/-2.50	0.11/1.27	0.42/-2.38	-4.00/-0.80	0.24/0.45	0.43/-1.49
θ(60°)	-1.57/-1.27	0.20/1.24	1.70/1.38	1.01/0.60	-1.93/-6.38	-3.36/-1.20	-0.69/0.61	-0.88/-1.77	-4.96/-2.17	-0.80/0.37	1.78/1.48	2.50/6.60	-1.51/-1.43	-5.16/-4.02	-1.27/-2.76	-9.54/-7.48	-7.25/-3.41	-1.09/-2.57	-4.56/-4.00	0.17/0.35	0.30/-2.07	-1.30/-0.39	-0.37/-0.35	-0.45/-1.23
θ(67.5°)	-0.22/0.66	1.51/1.15	0.98/1.94	1.93/1.17	-1.30/-7.55	-3.23/-0.38	-2.20/0.76	0.09/-1.30	-2.86/-2.12	-1.33/-0.50	1.57/2.04	1.25/2.07	1.55/0.51	-2.05/-3.61	-0.37/0.11	-6.78/-9.36	-7.18/-2.33	-0.96/-1.93	-3.02/-0.81	-0.73/-0.78	-1.35/0/-19	0.66/0.13	-1.77/-0.95	-0.44/0.07
θ(75°)	-0.32/-0.04	1.22/0.01	-0.70/0.65	1.19/1.10	-1.10/-6.30	-3.46/-0.79	-2.05/-0.04	-0.26/-0.16	-2.78/-3.83	-1.52/-0.88	0.50/-1.66	1.75/2.71	2.38/2.56	0.58/-3.66	-2.59/-0.61	-3.13/-9.46	-9.38/-2.53	-2.22/-0.68	-3.88/-0.91	-0.68/-2.79	-1.55/0.88	0.15/-0.58	-2.38/-0.61	0.19/0.49
θ(82.5°)	-1.54/-1.05	0.50/-1.14	-3.07/-1.23	0.06/0.25	-2.91/-6.49	-3.73/-0.92	-3.90/-1.42	-0.89/-0.14	-3.74/-4.32	-1.37/-2.12	-1.51/-0.03	1.29/2.25	1.21/-0.76	-0.18/-3.72	-5.10/-1.86	-1.66/-8.10	-14.65/-3.54	-3.29/-0.65	-2.30/-0.79	-1.17/-4.43	-1.95/-2.3	0.31/-0.83	-3.13/-0.79	-0.72/-0.57
θ(90°)	-2.92/-2.81	-0.88/-1.71	-3.41/-3.03	-1.96/-1.11	-3.34/-8.43	-4.24/-3.10	-4.39/-3.04	-2.29/-0.33	-4.55/-5.81	-2.72/-3.67	-3.34/-2.04	-0.33/0.58	-0.18/1.53	-0.48/-2.78	-5.32/-2.35	-1.65/-6.79	-10.32/-4.99	-2.27/-0.85	-1.51/-2.89	-2.02/-3.84	-2.10/0.29	-0.71/-1.02	-3.12/-0.74	-1.71/-1.42
θ(97.5°)	-3.74/-3.49	-2.24/-3.38	-4.43/-3.34	-2.73/-2.06	-2.75/-9.16	-4.71/-4.91	-6.17/-3.44	-3.41/-1.97	-5.76/-5.60	-4.96/-5.77	-5.95/-4.13	-0.93/-1.28	-1.28/-1.64	-1.48/-2.84	-4.09/-1.86	-1.76/-7.11	-8.54/-8.41	-3.60/-0.72	-3.10/-3.29	-3.88/-9.47	-1.59/-0.43	-1.18/-1.40	-4.04/-2.17	-3.80/-3.50
θ(105°)	-4.74/-4.78	-3.75/-3.66	-3.83/-3.85	-3.40/-1.90	-2.74/-8.92	-6.21/-5.79	-4.64/-3.66	-6.38/-3.49	-5.62/-5.53	-6.48/-10.59	-7.16/-6.66	-3.26/-3.01	-3.33/0.68	-1.75/-2.65	-4.70/-3.01	-2.78/-9.74	-5.78/-10.55	-5.92/-0.44	-6.53/-3.51	-7.53/-4.72	-2.76/-2.75	-1.24/-1.34	-5.44/-4.15	-5.44/-4.82
θ(112.5°)	-2.71/-4.41	-6.66/-4.29	-3.42/-4.35	-4.54/-1.69	-2.92/-8.83	-5.31/-6.43	-4.29/-4.26	-5.77/-4.17	-6.40/-10.76	-8.90/-7.61	-10.20/-7.12	-4.33/-8.15	-6.85/-1.66	-3.46/-7.82	-9.67/-5.13	-8.37/-12.10	-14.03/-10.41	-8.94/-3.63	-6.20/-5.83	-8.47/-8.67	-3.07/-2.79	-3.78/-2.99	-7.50/-7.49	-4.72/-5.36
θ(120°)	-2.87/-4.21	-4.93/-5.15	-4.27/-4.98	-5.40/-3.62	-3.77/-4.75	-5.16/-8.93	-6.08/-5.19	-6.17/-7.38	-7.37/-9.09	-12.56/-9.68	-11.86/-9.45	-6.83/-8.69	-11.52/-6.68	-8.64/-10.34	-15.05/-9.10	-14.47/-8.58	-13.91/-3.01	-3.35/-6.71	-9.95/-7.28	-12.21/-10.86	-3.80/-3.07	-6.97/-4.58	-10.29/-8.72	-6.27/-6.01
θ(127.5°)	-6.34/-4.97	-5.01/-5.53	-5.92/-5.28	-4.91/-7.77	-7.50/-7.57	-8.77/-6.07	-8.33/-11.05	-9.26/-6.98	-7.56/-11.59	-8.70/-														

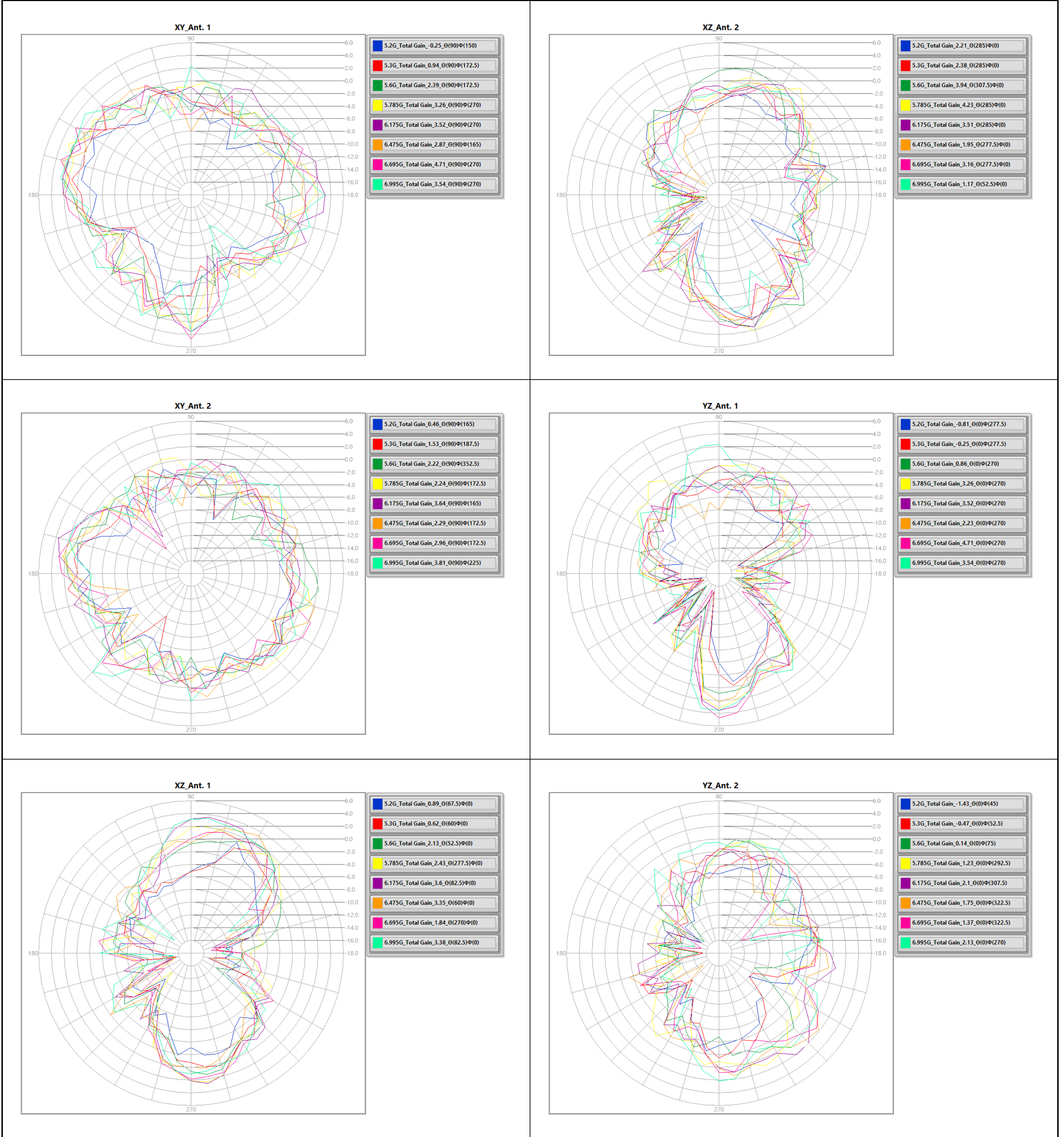


Antenna Pattern_5G6G

Appendix H

Θ (112.5°)	-3.34/2.54	-4.14/-3.13	-1.40/-3.19	-4.70/-7.24	-7.41/-3.51	-3.24/-5.71	-6.31/4.68	-6.30/-7.68	-7.31/-8.20	-6.34/-9.86	-4.98/-6.06	-4.150.55	-2.20/-2.05	-4.49/-3.12	-5.15/-2.56	-2.72/-5.21	-8.92/-10.39	-5.41/-5.19	-3.35/-6.30	-5.28/-4.26	-2.10/-5.28	-1.35/-2.76	-1.92/-2.52	-2.36/-2.57
Θ (120°)	-5.14/-3.78	-4.59/-3.67	-3.16/-4.95	-6.01/-9.87	-12.07/-7.51	-7.23/-6.02	-7.46/-4.73	-8.06/-10.48	-6.08/-9.93	-6.19/-7.03	-6.18/-14.13	-5.22/-1.54	-10.37/-4.29	-6.53/-7.29	-6.68/-7.02	-6.05/-13.34	-1.98/-6.38	-6.54/-4.70	-4.97/-7.62	-12.72/-2.25	-0.69/-4.42	-2.69/-3.19	-2.24/-2.76	-1.60/-3.21
Θ (127.5°)	-5.28/-5.15	-5.15/-6.26	-6.50/-4.96	-4.09/-5.98	-6.96/-10.85	-8.85/-10.85	-8.70/-8.77	-9.19/-6.40	-5.76/-4.70	-10.03/-9.96	-10.25/-11.12	-4.82/-7.70	-3.29/-1.13	-5.26/-7.77	-10.88/-7.32	-9.62/-3.75	-7.33/-7.80	-7.21/-6.77	-3.77/-7.79	-7.42/-4.25	-2.58/-3.13	-3.98/-4.54	-3.32/-3.36	-1.01/-2.41
Θ (135°)	-6.42/-8.20	-5.41/-5.98	-10.26/-11.62	-7.38/-7.81	-7.98/-9.28	-5.68/-4.38	-7.38/-8.11	-3.65/-4.25	-9.71/-5.44	-7.60/-11.23	-7.94/-9.03	-9.10/-10.07	-0.83/-0.83	-6.17/-7.38	-9.67/-7.67	-14.78/-12.66	-10.50/-6.92	-8.71/-8.43	-8.30/-4.19	-5.97/-9.06	-4.56/-4.90	-3.13/-3.25	-4.50/-5.26	-3.89/-5.71
Θ (142.5°)	-4.97/-5.39	-5.27/-6.62	-6.41/-7.04	-6.96/-8.48	-10.13/-9.14	-9.19/-12.71	-5.73/-6.55	-8.63/-10.79	-10.70/-8.75	-8.83/-7.30	-7.49/-8.64	-8.97/-11.01	-10.41/-12.46	-9.82/-6.79	-9.24/-13.17	-10.28/-11.32	-10.75/-11.80	-12.44/-10.20	-10.03/-8.07	-9.41/-10.81	-9.37/-7.54	-6.75/-4.46	-6.59/-5.11	-3.39/-8.40
Θ (150°)	-4.25/-7.90	-9.31/-11.37	-10.53/-11.80	-10.60/-9.80	-9.16/-10.41	-10.25/-10.92	-11.86/-12.20	-8.31/-5.82	-7.86/-11.27	-7.69/-7.61	-10.33/-11.20	-7.07/-6.75	-6.48/-5.63	-10.15/-14.94	-9.98/-5.12	-9.61/-13.51	-8.65/-4.73	-5.39/-6.78	-9.33/-14.79	-10.63/-9.73	-8.53/-8.24	-6.66/-5.51	-4.28/-3.27	
Θ (157.5°)	-6.00/-8.13	-9.13/-8.30	-8.23/-7.72	-7.13/-8.16	-12.19/-12.77	-11.91/-8.73	-9.03/-10.07	-7.84/-8.66	-8.49/-11.81	-15.10/-14.71	-15.80/-12.26	-11.95/-12.96	-13.85/-12.22	-14.28/-14.48	-10.65/-7.79	-7.48/-14.20	-12.46/-6.26	-5.89/-6.44	-7.60/-6.08	-7.45/-9.54	-9.04/-12.42	-9.87/-6.33	-5.59/-5.13	-7.15/-7.50
Θ (165°)	-7.21/-5.68	-4.13/-5.07	-5.10/-5.78	-7.56/-6.87	-6.82/-8.39	-11.18/-11.66	-11.30/-10.69	-9.98/-9.28	-9.91/-10.28	-12.32/-15.69	-15.51/-15.37	-13.62/-12.33	-14.06/-11.00	-10.67/-11.19	-15.44/-15.66	-14.24/-10.07	-7.17/-9.56	-14.43/-7.69	-5.06/-3.11	-3.48/-3.92	-4.25/-7.87	-12.45/-12.73	-10.72/-9.15	-7.89/-6.85
Θ (172.5°)	-10.27/-11.65	-14.09/-15.76	-14.65/-13.29	-11.51/-11.27	-11.50/-10.62	-10.12/-8.65	-6.63/-6.71	-9.38/-13.48	-15.45/-15.16	-15.89/-15.00	-13.82/-14.41	-14.04/-13.91	-14.92/-13.45	-11.61/-10.42	-8.89/-7.80	-7.17/-8.12	-5.85/-6.46	-5.09/-4.77	-4.61/-4.83	-4.99/-6.90	-8.90/-9.37	-8.57/-8.65	-8.12/-9.30	
Θ (180°)	-9.95/-10.62	-10.67/-9.75	-11.25/-11.99	-12.57/-14.04	-11.87/-9.54	-8.64/-8.74	-8.54/-8.99	-11.30/-13.79	-14.14/-12.57	-11.55/-11.36	-11.74/-13.37	-14.03/-14.31	-14.83/-15.33	-14.78/-13.45	-12.72/-13.34	-12.97/-13.00	-12.03/-12.41	-12.81/-13.67	-14.57/-15.29	-14.65/-13.45	-11.26/-11.05	-11.46/-12.75	-11.60/-10.24	-10.45/-10.14
Freq(Hz)	6.075GPol.	TotalAnt.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°)	-2.66/-2.74	-2.47/-2.01	-2.56/-2.56	-2.44/-2.21	-2.11/-2.37	-2.10/-1.63	-1.10/-0.99	-1.46/-1.21	-0.96/-1.07	-1.06/-1.17	-1.90/-2.26	-1.79/-1.84	-2.40/-2.37	-2.77/-2.84	-3.01/-3.13	-3.14/-3.27	-3.50/-2.83	-3.19/-3.16	-2.46/-2.29	-2.52/-2.55	-2.28/-1.98	-2.04/-2.26	-2.20/-1.88	-2.21/-2.51
Θ (7.5°)	-2.21/-2.79	-2.84/-2.81	-2.66/-3.20	-3.04/-3.06	-2.47/-2.35	-2.31/-2.62	-3.04/-2.53	-2.34/-2.56	-3.00/-2.89	-2.74/-3.10	-4.07/-4.73	-4.36/-3.34	-2.87/-3.09	-2.57/-2.05	-2.64/-2.21	-1.55/-1.71	-1.32/-0.76	-0.63/-0.76	-0.55/-1.11	-1.74/-2.17	-2.23/-2.66	-3.14/-3.27	-3.13/-2.74	-2.25/-2.05
Θ (15°)	-2.87/-4.61	-4.05/-4.29	-5.55/-4.75	-5.96/-4.95	-4.69/-3.70	-1.67/-1.82	-1.96/-1.85	-2.01/-3.13	-5.64/-7.70	-7.56/-7.73	-6.97/-6.97	-6.77/-5.66	-4.23/-3.21	-2.71/-2.12	-3.37/-4.57	-6.45/-7.99	-7.07/-5.14	-3.01/-3.02	-3.67/-5.44	-5.64/-5.43	-3.26/-3.40	-3.13/-3.12	-2.76/-2.57	
Θ (22.5°)	-4.43/-5.91	-5.11/-4.29	-4.09/-3.30	-4.33/-4.64	-5.39/-7.29	-5.49/-5.79	-6.78/-6.39	-7.77/-11.47	-10.79/-8.49	-7.78/-7.51	-6.51/-4.99	-4.38/-4.48	-3.23/-3.00	-4.43/-5.14	-4.04/-2.49	-1.87/-2.35	-4.85/-4.68	-3.91/-3.26	-3.25/-2.31	-1.27/-1.03	-1.21/-2.60	-4.52/-6.14	-6.60/-5.11	-4.53/-4.38
Θ (30°)	-2.29/-2.50	-3.68/-4.17	-2.64/-2.70	-4.25/-6.35	-6.37/-6.99	-7.84/-12.42	-8.87/-7.28	-15.29/-13.79	-11.58/-8.74	-3.35/-0.56	-1.00/-1.52	-2.41/-3.75	-3.93/-3.47	-2.99/-3.22	-5.03/-8.67	-9.55/-8.67	-5.48/-6.86	-6.39/-2.80	-0.39/-0.61	0.57/-1.14	-2.90/-1.65	-0.14/-0.88	-2.44/-2.82	-3.32/-2.09
Θ (37.5°)	-0.31/-0.09	-2.17/-2.25	-2.32/-3.04	-3.32/-3.87	-4.96/-3.67	-4.21/-4.46	-7.37/-10.01	-14.46/-13.24	-14.02/-6.84	-2.59/-0.41	-0.21/-0.78	-1.86/-1.99	-2.16/-2.67	-3.22/-4.52	-5.12/-3.98	-2.44/-3.54	-6.71/-5.86	-2.19/-0.72	1.75/-2.24	0.58/-0.33	-0.54/-1.20	-3.06/-3.89	-1.98/-1.21	-0.89/-0.51
Θ (45°)	-0.54/-1.10	-1.70/-4.12	-6.43/-7.04	-6.48/-3.43	-3.46/-4.82	-2.29/-4.35	-5.13/-6.08	-8.73/-8.72	-8.75/-4.33	-5.71/-0.54	1.88/-1.38	-0.77/-5.68	-6.18/-1.61	-0.19/-0.67	0.69/-1.65	-1.88/-2.26	-4.37/-7.05	-2.89/-0.80	1.37/-1.11	-0.81/-0.28	0.28/-1.65	-1.07/-1.14	0.54/-1.50	0.96/-0.14
Θ (52.5°)	0.58/-1.07	-1.37/-2.64	-3.79/-2.42	-1.39/-1.20	-2.30/-4.59	-0.86/-2.66	-6.03/-4.35	-9.75/-9.59	-2.40/-2.46	1.43/-0.16	0.97/-1.98	1.43/-1.49	1.85/-0.09	-2.38/-1.19	-1.26/-3.72	-2.29/-0.76	0.67/-1.13	-0.80/-0.61	-0.36/-0.11	1.95/-0.16	1.11/-2.92	1.14/-2.97	3.14/-1.69	
Θ (60°)	-0.18/-0.32	-1.03/-0.98	-0.43/-0.41	-0.82/-0.38	-2.31/-2.10	-0.97/-1.84	-6.97/-4.77	-7.80/-2.79	-4.86/-6.84	-0.01/-1.78	0.46/-4.33	3.25/-1.14	-1.23/-0.32	0.12/-1.00	-3.24/-0.44	-1.32/-1.08	-0.86/-2.45	-1.13/-1.27	-0.83/-1.35	0.35/-0.92	0.40/-0.98	1.12/-0.68	2.82/-0.84	3.18/-5.2
Θ (67.5°)	0.85/-0.08	0.07/-1.55	0.32/-0.85	-0.83/-1.22	-1.94/-2.69	-1.04/-0.09	-4.15/-7.10	-6.40/-2.17	-1.81/-5.52	-0.39/-0.43	1.20/-2.26	1.02/-0.35	-2.09/-5.07	-2.96/-0.66	6.54/-2.35	-1.82/-2.98	-2.23/-3.04	-2.90/-1.74	-0.53/-1.86	0.68/-0.78	0.50/-0.29	0.65/-0.53	2.62/-0.07	3.52/-2.34
Θ (75°)	0.27/-0.57	-0.64/-1.27	-0.49/-0.51	-0.27/-1.47	-1.77/-1.20	0.39/-1.20	-0.80/-6.96	-2.87/-3.21	-0.13/-4.43	-6.19/-1.39	1.42/-1.59	1.02/-2.53	1.59/-0.77	-3.73/-0.61	-0.99/-2.93	-1.27/-4.65	-4.38/-2.57	-3.63/-1.22	0.54/-0.24	0.41/-0.42	0.73/-0.28	0.62/-0.13	1.04/-2.97	3.88/-1.96
Θ (82.5°)	-1.26/-1.16	-0.88/-0.77	-1.57/-1.49	-0.76/-2.16	-2.76/-0.28	0.43/-0.68	-0.99/-7.97	-2.53/-3.21	0.65/-5.15	-5.12/-0.08	0.80/-0.06	2.00/-2.92	1.95/-0.76	-4.91/-1.03	-1.47/-6.20	-0.81/-2.25	-3.60/-1.12	-3.19/-1.27	1.45/-2.40	0.84/-0.06	0.07/-1.63	0.01/-0.03	0.32/-2.90	3.36/-0.07
Θ (90°)	-3.31/-1.40	-1.26/-0.21	-1.85/-1.93	-0.78/-2.63	-3.18/-1.55	-1.82/-0.97	-1.69/-7.27	-3.81/-3.99	-0.15/-4.75	-5.91/-0.77	-1.41/-0.89	1.74/-2.29	1.12/-2.73	-7.85/-2.50	-2.68/-7.49	0.55/-0.25	-0.71/-1.36	-5.02/-1.66	0.16/-1.53	-0.28/-2.68	-0.65/-1.65	-1.00/-0.43	-0.53/-2.05	2.23/-2.24
Θ (97.5°)	-4.24/-2.19	-2.13/-1.40	-3.15/-2.34	-1.90/-3.85	-3.60/-1.84	-2.73/-1.61	-3.12/-6.90	-6.53/-4.24	-1.82/-4.10	-7.57/-2.93	-3.46/-1.43	0.95/-1.23	-1.41/-5.96	-6.33/-3.24	-4.34/-6.18	-0.71/-0.29	-2.11/-7.88	-7.64/-6.43	-1.94/-0.46	-2.94/-4.47	-0.66/-3.88	-2.10/-1.22	-0.71/-0.99	0.44/-3.15
Θ (105°)	-6.31/-2.37	-3.04/-3.65	-4.67/-7.20	-3.63/-4.49	-4.36/-2.20	-1.20/-0.88	-3.56/-6.25	-10.97/-5.47	-1.40/-3.50	-12.17/-6.63	-5.95/-6.25	-4.55/-6.61	-4.73/-3.89	-2.16/-2.72	-2.65/-2.13	-10.59/-15.55	-11.01/-6.40	-3.66/-4.41	-5.82/-4.45	-2.92/-6.98	-2.71/-1.63	-1.97/-0.73	-0.66/-4.84	
Θ (112.5°)	-7.41/-3.33	-4.95/-8.04	-6.45/-4.10	-6.64/-3.59	-4.63/-2.51	-0.69/-0.01	-1.96/-5.55	-6.25/-8.06	-5.23/-6.00	-12.62/-12.16	-4.79/-5.89	-4.37/-0.09	-4.30/-6.15	-8.02/-9.50	-7.05/-4.84	-3.19/-4.44	-7.58/-12.79	-8.37/-6.31	-3.15/-3.93	-7.51/-3.85	-3.82/-8.43	-1.53/-1.14	-2.66/-0.67	-2.05/-6.42
Θ (120°)	-7.24/-3.54	-6.25/-6.73	-6.12/-5.82	-8.19/-5.58	-7.42/-3.21	-2.36/-1.38	-2.90/-8.86	-5.56/-9.56	-5.43/-8.04	-10.81/-5.25	-7.52/-14.17	-8.51/-4.25	-8.19/-6.17	-9.85/-9.70	-15.52/-11.13	-6.72/-11.63	-0.78/-4.64	-7.50/-4.26	-2.81/-5.94	-11.03/-3.31	-2.12/-9.35	-1.51/-1.22	-1.79/-1.90	-4.40/-5.06
Θ (127.5°)	-8.88/-6.46	-7.19/-6.18	-5.78/-5.98	-6.57/-10.35	-7.16/-6.45	-7.13/-5.13	-5.00/-5.32	-6.84/-8.11	-5.98/-5.93	-6.59/-6.72	-10.66/-7.87	-7.18/-5.54	-5.40/-4.25	-11.32/-6.51	-5.86/-10.18	-11.44/-6.42	-5.40/-8.22	-4.98/-6.22	-3.77/-8.70	-6.57/-8.57	-4.88/-4.00	-1.45/-4.04	-4.38/-2.26	-4.99/-6.13
Θ (135°)	-12.14/-8.10	-5.47/-4.57	-7.60/-5.11	-4.33/-6.08	-4.35/-6.42	-3.47/-3.87	-5.13/-5.47	-6.31/-3.42	-6.79/-5.90	-5.12/-11.02	-9.28/-6.37	-9.92/-11.32	-2.11/-3.37	-8.83/-14.36	-10.59/-10.64	-10.51/-11.54	-14.98/-7.89	-11.70/-9.60	-9.76/-6.79	-6.84/-11.26	-7.72/-2.28	-1.72/-3.53	-7.51/-4.48	-5.71/-10.01
Θ (142.5°)	-15.27/-13.53	-6.64/-4.28	-6.87/-11.84	-9.05/-5.65	-4.56/-6.54	-4.40/-6.02	-6.54/-4.07	-7.71/-7.82	-7.76/-10.52	-14.51/-10.46	-9.29/-9.14	-13.34/-14.52	-13.01/-10.83	-11.61/-9.99	-11.00/-15.57	-10.92/-12.28	-10.24/-13.90	-11.28/-8.89	-14.89/-11.19	-13.61/-10.96	-6.12/-5.07	-4.63/-6.21	-5.81/-5.36	-7.11/-12.63
Θ (150°)	-10.94/-12.24	-8.64/-5.63	-5.64/-7.62	-8.74/-9.89	-10.38/-10.88	-10.15/-9.24	-11.99/-9.10	-8.71/-12.03	-14.20/-8.23	-8.02/-12.37	-9.21/-10.49	-13.52/-8.36	-4.96/-5.18	-7.31/-10.24	-15.47/-9.83	-12.14/-14.91	-13.41/-10.40	-10.50/-8.43	-7.60/-10.96	-11.95/-10.46	-8.95/-9.56	-10.39/-11.75	-8.67/-5.89	-7.88/-7.70
Θ (157.5°)	-10.17/-14.79	-12.68/-7.65	-7.32/-6.31	-9.19/-12.20	-12.27/-12.10	-13.65/-14.79	-10.84/-11.03	-10.47/-8.79	-10.74/-12.84	-12.88/-15.10	-11.08/-9.90	-9.37/-10.49	-14.02/-13.87	-8.74/-8.48	-9.60/-14.61	-9.30/-8.63	-8.64/-10.00	-5.06/-4.36	-5.92/-8.43	-11.63/-13.42	-11.60/-15.16	-13.72/-12.22	-10.41/-9.88	
Θ (165°)	-9.55/-9.84	-11.67/-14.16	-11.53/-11.89	-10.23/-7.81	-8.07/-9.25	-11.58/-13.03	-10.58/-9.02	-8.35/-10.56	-15.13/-14.82	-15.28/-14.70	-													

E1(XY plane) – $\Theta(90)\Phi(0-360)$
 E2(XZ plane) – $\Theta(0-180)\Phi(0)$ and $\Theta(0-180)\Phi(180)$
 E3(YZ plane) – $\Theta(0-180)\Phi(90)$ and $\Theta(0-180)\Phi(270)$





Antenna Pattern_6G

Appendix I

Total Gain Data

Freq(Hz)	6.175GPol.	TotalAnt. 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°)	-11.59/-11.69	-11.69/-10.89	-11.05/-10.85	-11.48/-11.51	-11.12/-10.60	-10.32/-11.72	-11.20/-9.46	-9.72/-10.68	-11.21/-11.30	-10.10/-9.73	-9.84/-9.84	-10.07/-9.50	-9.38/-9.05	-9.13/-9.31	-9.40/-9.72	-8.96/-8.16	-9.41/-10.68	-9.46/-9.21	-9.20/-10.23	-11.68/-11.55	-11.14/-10.75	-10.91/-11.40	-12.05/-11.01	-10.39/-11.69
Θ(7.5°)	-8.49/-7.66	-6.58/-6.11	-6.63/-7.01	-6.41/-5.37	-6.21/-7.67	-7.39/-8.58	-6.65/-9.41	-6.81/-9.62	-9.66/-9.59	-8.85/-8.54	-7.59/-7.85	-8.76/-9.04	-8.50/-7.88	-7.73/-8.74	-7.56/-7.89	-8.15/-7.70	-7.60/-7.51	-8.17/-7.69	-8.78/-9.14	-9.25/-9.05	-8.98/-9.44			
Θ(15°)	-9.49/-8.24	-7.22/-5.96	-4.98/-3.44	-2.53/-2.20	-1.96/-1.71	-1.69/-2.26	-2.27/-2.25	-2.92/-4.03	-5.27/-6.38	-7.42/-8.40	-9.16/-9.47	-9.75/-8.97	-7.81/-6.68	-5.25/-4.50	-4.28/-4.70	-4.87/-5.07	-6.10/-7.37	-7.80/-7.97	-7.33/-6.73	-6.06/-5.80	-6.77/-7.85	-8.41/-9.56	-11.10/-12.01	-12.37/-11.84
Θ(22.5°)	-6.87/-6.18	-6.20/-6.22	-5.42/-4.01	-2.56/-1.79	-0.84/-0.58	-0.83/-2.73	-4.10/-3.70	-4.17/-4.59	-5.30/-6.05	-6.70/-8.80	-10.27/-8.44	-6.88/-6.19	-6.05/-7.02	-8.21/-8.38	-7.24/-7.76	-11.18/-13.16	-12.96/-10.98	-11.41/-13.50	-14.65/-10.38	-9.64/-10.61	-9.44/-7.65	-6.73/-7.40	-8.29/-8.41	-8.63/-7.63
Θ(30°)	-6.89/-8.96	-8.78/-8.80	-9.28/-6.76	-4.78/-3.48	-2.42/-1.32	-0.98/-2.92	-4.89/-4.44	-3.66/-2.86	-3.13/-4.13	-4.28/-4.76	-6.22/-4.37	-4.54/-5.92	-6.19/-6.20	-10.90/-15.00	-14.69/-14.16	-12.00/-10.16	-7.75/-8.10	-10.25/-8.72	-8.64/-7.31	-3.17/-1.65	-1.58/-2.05	-2.57/-3.15	-4.16/-4.73	
Θ(37.5°)	-5.08/-7.18	-4.96/-3.87	-4.51/-4.85	-6.57/-7.06	-5.64/-2.79	-2.25/-3.60	-4.41/-2.83	-1.79/-1.10	0.17/-0.38	-1.90/-3.16	-6.15/-6.59	-5.80/-3.45	-2.27/-1.69	-1.85/-3.45	-5.91/-6.40	-5.62/-2.86	-1.85/-3.17	-3.87/-3.45	-2.46/-2.43	-3.02/-1.58	-0.47/-0.84	-2.20/-2.32	-2.86/-2.28	-3.17/-3.78
Θ(45°)	0.83/-0.96	-2.62/-3.67	-3.01/-2.28	-1.92/-3.50	-4.08/-2.95	-1.57/-4.00	-2.41/-3.42	-1.74/-1.83	-0.710/-1.7	-0.63/-1.99	-3.47/-3.16	-3.01/-3.74	-4.00/-1.79	0.530/-7.9	-0.91/-3.01	-2.89/-0.91	-1.25/-4.68	-0.01/-10.02	-7.53/-5.48	-3.07/-0.65	0.98/-1.52	0.96/-0.42	-1.02/-0.61	0.27/-1.11
Θ(52.5°)	2.760/89	-1.09/-2.61	-3.53/-1.57	-1.21/-1.63	-0.980/0.8	-10.01/45	1.48/-1.91	-1.67/-0.72	-1.32/-1.47	-1.66/-2.01	-3.43/-2.68	-3.19/-4.62	-8.40/-6.92	-1.43/-0.01	-2.25/-6.58	-3.77/-1.35	-2.17/-4.94	-6.79/-7.19	-5.13/-4.24	-0.76/-1.16	2.65/-3.03	2.47/-2.35	2.48/-2.93	3.14/-3.02
Θ(60°)	4.102/92	1.88/-1.26	-1.59/-4.31	-3.90/-1.70	0.25/-1.10	1.74/-11	2.85/-21	2.38/-2.74	1.71/-16.3	0.880/-4.0	-2.08/-5.65	-7.12/-8.62	-10.31/-10.36	-2.75/-1.70	-4.73/-6.93	-4.43/-3.64	-6.53/-5.23	-4.65/-2.65	-2.27/-1.98	-0.28/-1.45	3.22/-3.99	4.78/-4.81	3.47/-4.35	
Θ(67.5°)	4.583/63	2.79/-68	-0.93/-10.77	-7.14/-1.50	0.27/-9.01	2.90/-5.02	3.68/-1.39	3.57/-4.03	3.54/-4.99	2.98/-2.26	-0.57/-4.32	-4.70/-3.78	-6.35/-8.78	-3.61/-1.15	-2.80/-1.63	-0.93/-2.87	-4.40/-3.99	-2.43/-1.66	-0.60/-0.07	0.10/-1.79	3.08/-2.79	2.84/-3.77	4.92/-4.96	4.97/-5.44
Θ(75°)	4.403/84	2.550/84	-1.44/-9.22	-12.18/-3.34	-1.980/-16	2.814/93	3.840/23	3.033/55	2.633/64	3.613/02	0.73/-18.4	-1.62/-0.59	-1.57/-4.24	-6.01/-2.03	-1.50/-0.99	-0.41/-1.99	-3.16/-3.83	-1.93/-1.17	-0.110/-32	-0.24/-1.34	2.35/-0.90	2.21/-2.34	4.35/-4.50	4.86/-4.86
Θ(82.5°)	2.782/82	1.07/-0.83	-2.85/-7.62	-4.66/-5.03	-5.87/-1.72	1.814/-43	3.760/-61	1.74/-75	0.582/69	2.791/-60	-0.72/-0.73	-1.18/-0.30	-1.20/-2.31	-5.35/-2.03	-1.35/-1.34	-2.35/-2.05	-2.65/-3.63	-1.83/-1.69	0.340/-25	-0.76/-1.23	1.260/-09	1.44/-38	2.91/-2.75	3.57/-4.37
Θ(90°)	1.351/-30	-0.81/-2.23	-4.10/-6.87	-9.31/-7.66	-12.92/-4.57	0.153/-22	2.520/-82	1.30/-0.62	-1.42/-1.21	1.060/-45	-2.22/-3.43	-3.76/-0.89	-0.98/-3.15	-5.47/-4.47	-1.78/-2.40	-4.65/-3.20	-2.96/-4.94	-1.52/-2.27	0.34/-0.32	-2.190/-50	0.42/-0.92	0.20/-0.36	0.71/-0.55	2.63/-9.0
Θ(97.5°)	0.18/-1.13	-2.86/-3.29	-4.38/-6.31	-7.21/-8.18	-15.94/-4.42	-0.640/-99	0.610/-79	0.89/-2.65	-2.41/-0.21	-0.24/-1.41	-2.79/-6.67	-6.75/-2.68	-3.77/-5.81	-6.88/-6.46	-3.11/-4.12	-5.09/-2.95	-5.42/-4.85	-2.31/-2.00	-1.68/-2.79	-4.59/-0.74	-1.34/-1.99	-2.35/-3.13	-1.67/-0.55	2.16/-1.33
Θ(105°)	-1.73/-3.33	-5.27/-4.40	-4.90/-6.40	-6.83/-9.66	-14.71/-13.17	-10.87/-5.12	-3.473/-10	-1.084/-2.8	-3.57/-1.27	-0.884/-3.0	-10.41/-8.89	-6.85/-5.11	-6.84/-2.29	-6.94/-5.56	-7.08/-7.85	-10.80/-9.96	-4.50/-6.42	-6.11/-6.68	-6.85/-5.32	-5.11/-5.78	-9.39/-6.91	-7.89/-3.83	-3.08/-6.57	-7.31/-7.27
Θ(112.5°)	-2.88/-4.98	-7.52/-5.75	-4.56/-7.17	-8.58/-13.10	-9.90/-5.52	-1.62/-4.16	-8.14/-5.66	-2.16/-1.86	-5.56/-7.47	-7.66/-4.99	-3.85/-5.55	-5.79/-7.08	-6.16/-7.86	-9.88/-8.35	-4.06/-8.27	-10.53/-3.96	-7.11/-11.78	-15.13/-11.25	-14.85/-10.49	-10.07/-7.86	-6.53/-8.49	-9.24/-5.17	-1.100/-52	0.64/-2.31
Θ(120°)	-7.07/-0.73	-10.45/-6.94	-5.51/-11.31	-12.55/-13.81	-8.24/-6.04	-2.73/-2.17	-6.04/-12.27	-6.01/-4.83	-7.28/-7.34	-8.09/-10.30	-11.15/-4.71	-7.25/-7.40	-6.07/-8.47	-4.89/-6.03	-5.48/-7.95	-14.24/-11.70	-9.44/-3.98	-7.40/-9.97	-7.34/-6.00	-6.01/-6.92	-13.59/-7.00	-5.65/-2.83	0.00/-0.38	-2.85/-7.63
Θ(127.5°)	-11.94/-7.06	-5.59/-11.08	-8.26/-10.35	-14.71/-13.17	-10.87/-5.42	-3.473/-10	-1.084/-2.8	-3.57/-1.27	-0.884/-3.0	-10.41/-8.89	-6.85/-5.11	-6.84/-2.29	-6.94/-5.56	-7.08/-7.85	-10.80/-9.96	-4.50/-6.42	-6.11/-6.68	-6.85/-5.32	-5.11/-5.78	-9.39/-6.91	-7.89/-3.83	-3.08/-6.57	-7.31/-7.27	-1.60/-0.63
Θ(135°)	-10.61/-5.62	-6.58/-14.89	-11.82/-12.31	-9.86/-11.18	-11.92/-10.49	-7.39/-4.44	-5.59/-6.65	-10.26/-15.41	-10.05/-9.18	-10.13/-6.57	-5.71/-8.31	-5.78/-3.90	-7.88/-9.29	-5.79/-6.34	-6.44/-5.45	-5.76/-6.55	-11.62/-5.91	-5.32/-11.08	-7.34/-7.40	-7.61/-12.47	-9.75/-4.19	-7.10/-6.23	-8.95/-10.44	-15.27/-11.81
Θ(142.5°)	-10.74/-5.77	-6.37/-9.49	-12.89/-12.60	-7.89/-7.03	-8.55/-9.17	-6.99/-6.37	-8.03/-0.77	-5.54/-8.95	-14.36/-10.50	-12.45/-13.79	-15.31/-12.37	-9.14/-10.65	-10.60/-8.86	-11.29/-13.30	-9.41/-11.95	-11.71/-8.55	-10.78/-4.85	-9.46/-11.45	-4.91/-8.14	-7.82/-15.01	-9.72/-7.79	-12.37/-10.50	-8.55/-8.24	-9.80/-13.35
Θ(150°)	-11.08/-13.90	-12.49/-12.92	-11.57/-10.89	-8.48/-6.61	-8.41/-11.11	-9.21/-8.46	-8.10/-4.65	-3.80/-4.90	-8.44/-9.53	-9.11/-8.44	-8.27/-7.86	-6.97/-5.31	-8.19/-8.30	-11.14/-11.45	-14.98/-15.07	-13.33/-11.35	-7.31/-7.85	-6.78/-12.59	-11.16/-10.02	-10.68/-11.71	-7.42/-10.20	-10.68/-9.41		
Θ(157.5°)	-13.66/-12.89	-7.76/-5.95	-7.94/-11.95	-13.59/-9.51	-8.11/-8.82	-10.51/-11.96	-13.31/-9.61	-9.57/-10.29	-8.54/-7.74	-7.86/-8.41	-11.26/-13.37	-13.91/-13.89	-13.21/-10.85	-8.17/-9.33	-12.56/-9.75	-10.26/-10.29	-10.67/-9.27	-7.82/-8.14	-9.61/-11.22	-11.10/-10.69	-12.06/-14.41	-12.11/-10.47	-11.36/-15.12	-14.81/-12.63
Θ(165°)	-15.45/-14.79	-12.31/-9.49	-8.83/-8.28	-8.45/-8.15	-8.73/-10.46	-12.82/-10.66	-11.96/-14.04	-12.70/-11.53	-11.82/-14.67	-16.15/-14.14	-11.86/-10.96	-10.53/-10.90	-9.63/-8.28	-8.80/-14.02	-14.47/-13.76	-11.99/-9.64	-9.11/-9.91	-11.47/-12.85	-13.21/-13.23	-14.13/-12.67	-11.33/-11.20	-12.63/-14.59	-15.14/-15.67	-14.15/-15.30
Θ(172.5°)	-10.80/-10.80	-10.73/-9.93	-9.07/-9.70	-10.34/-11.13	-12.53/-12.53	-14.12/-14.45	-12.31/-10.93	-11.06/-12.01	-12.63/-13.45	-14.29/-15.19	-14.98/-13.29	-12.41/-14.83	-10.43/-12.72	-11.28/-9.95	-9.02/-8.32	-9.18/-10.39	-12.61/-14.02	-15.33/-13.42	-12.25/-12.68	-14.51/-14.90	-15.76/-14.22	-13.00/-10.98	-10.12/-10.19	
Θ(180°)	-11.90/-11.89	-11.08/-10.71	-12.08/-13.89	-12.97/-11.96	-11.87/-11.68	-11.63/-10.80	-12.00/-11.94	-12.94/-12.71	-12.79/-13.34	-14.79/-15.45	-13.37/-11.48	-11.03/-11.95	-13.11/-13.51	-12.82/-13.04	-12.68/-12.84	-12.68/-11.47	-12.18/-12.05	-11.02/-11.17	-11.79/-12.38	-12.08/-12.84	-13.04/-14.81	-15.50/-15.56	-15.31/-15.74	-13.84/-12.58
Freq(Hz)	6.475GPol.	TotalAnt. 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°)	-4.45/-4.51	-4.74/-5.23	-5.82/-5.74	-5.53/-5.85	-6.02/-6.07	-5.39/-5.09	-5.26/-5.66	-5.63/-5.59	-5.64/-5.88	-6.00/-6.11	-6.23/-6.66	-6.39/-5.97	-5.90/-5.03	-5.13/-5.63	-5.28/-4.81	-4.76/-5.00	-4.05/-3.13	-3.75/-4.31	-3.97/-3.58	-3.47/-3.82	-4.27/-4.23	-4.05/-4.41	-4.69/-4.62	-4.50/-4.56
Θ(7.5°)	-8.58/-7.4	-6.52/-5.52	-5.80/-5.33	-4.37/-3.96	-3.89/-3.60	-3.08/-2.88	-3.05/-3.64	-3.55/-3.42	-3.35/-3.74	-4.04/-4.49	-4.83/-5.33	-5.60/-6.04	-6.60/-6.84	-6.20/-6.11	-6.62/-7.98	-8.74/-7.15	-6.13/-6.19	-6.37/-6.92	-6.92/-7.19	-6.62/-7.03	-8.37/-9.56	-10.26/-10.45	-10.51/-10.73	-10.25/-9.67
Θ(15°)	-14.41/-14.90	-14.82/-11.44	-7.68/-5.30	-3.54/-2.18	-1.61/-1.72	-2.47/-2.83	-3.84/-5.85	-7.18/-7.28	-9.31/-9.60	-9.17/-8.08	-7.19/-6.95	-8.00/-7.05	-5.50/-4.80	-5.59/-6.95	-8.21/-8.21	-9.10/-10.26	-8.31/-8.88	-10.72/-12.05	-11.27/-11.42	-9.17/-6.62	-6.89/-6.98	-8.22/-9.89	-10.26/-11.91	
Θ(22.5°)	-10.25/-13.75	-15.46/-11.27	-7.92/-5.68	-3.56/-2.27	-2.03/-2.50	-3.53/-3.64	-4.12/-5.86	-7.06/-7.02	-6.50/-6.16	-6.88/-7.23	-7.02/-7.17	-7.20/-8.12	-10.34/-11.55	-10.99/-10.52	-8.41/-6.01	-6.75/-7.82	-8.34/-7.71	-7.82/-8.90	-9.96/-10.15	-8.39/-6.33	-4.35/-2.64	-2.18/-2.97	-5.67/-9.12	-10.28/-9.53
Θ(30°)	-8.27/-9.68	-10.16/-6.54	-5.45/-5.60	-4.41/-3.99	-3.20/-1.94	-2.00/-2.53	-3.76/-4.73	-3.84/-2.25	-1.58/-1.58	-2.18/-3.95	-6.39/-3.83	-6.92/-6.16	-7.63/-10.19	-12.96/-12.38	-8.98/-7.86	-9.10/-14.77	-9.44/-6.53	-5.35/-6.39	-8.33/-7.24	-4.90/-3.65	-2.60/-1.72	-1.23/-2.11	-4.91/-8.31	-8.31/-8.42
Θ(37.5°)	-2.08/-2.92	-5.42/-6.28	-7.02/-5.51	-3.91/-4.26	-3.92/-3.70	-4.59/-6.79	-5.32/-6.70	-6.20/-4.90	-1.730/-0.1	-0.09/-1.95	-4.73/-11.80	-1.95/-7.87	-6.54/-4.89	-5.05/-7.10	-5.32/-3.38	-3.36/-4.06	-6.4							



Antenna Pattern_6G

Appendix I

Θ(22.5°)	-8.08/8.55	-8.56/9.28	-8.53/8.26	-8.28/6.65	-3.91/-1.76	-1.38/2.56	-5.62/-10.45	-13.45/-10.82	-8.19/-6.71	-7.05/-8.24	-11.75/-15.65	-15.31/-12.32	-9.61/-5.38	-2.68/-1.44	-1.59/-2.30	-2.97/-4.04	-4.65/-5.58	-6.93/8.22	-7.86/-6.21	-4.66/-3.59	-3.56/-4.46	-5.51/-5.03	-4.10/-3.81	-4.98/-6.69
Θ(30°)	-8.43/-7.81	-6.10/-5.12	-4.53/-3.78	-2.75/-3.57	-4.89/-4.22	-4.12/-6.55	-9.77/-10.59	-7.36/-5.61	-5.59/-5.02	-5.33/-6.62	-6.77/-7.87	-9.88/-7.61	-4.73/-3.84	-2.08/-1.0	0.17/-0.84	-2.50/-3.63	-4.95/-6.13	-8.01/-13.05	-14.90/-11.71	-11.77/-11.43	-10.34/-8.91	-7.21/-4.77	-2.39/-2.24	-3.53/-5.69
Θ(37.5°)	-0.34/-1.75	-3.68/-5.30	-3.91/-1.11	0.08/-0.59	-1.76/-2.34	-3.09/-3.92	-3.69/-3.58	-4.04/-3.58	-4.10/-5.18	-3.92/-3.42	-1.98/-1.58	-3.15/-3.44	-2.80/-4.77	-3.79/-1.10	0.62/-2.07	-3.01/-3.39	-2.72/-2.35	-3.68/-4.70	-3.68/-2.21	-1.87/-2.13	-3.44/-5.85	-5.86/-6.75	-4.30/-2.00	-4.30/-2.00
Θ(45°)	2.84/3.52	2.30/-0.07	-1.22/0.93	1.26/0.79	0.79/-0.13	-1.73/-0.70	-0.03/-0.19	-1.58/-2.53	-1.73/-2.10	-2.84/-0.79	0.03/0.16	-1.60/-3.20	-3.47/-3.37	-1.82/-1.62	0.15/0.99	1.90/0.70	-1.20/-2.01	-1.72/0.24	2.01/2.99	3.17/2.79	2.31/1.43	0.34/-1.28	-0.82/-0.49	-1.93/0.34
Θ(52.5°)	4.71/5.56	4.43/2.48	0.73/-1.66	1.93/-1.89	1.20/-1.26	-2.56/-1.27	-1.36/-1.82	-2.84/-4.46	-1.88/0.56	0.22/0.99	0.32/-0.88	-3.96/-4.27	-3.29/-0.74	0.12/0.79	2.76/3.47	3.45/0.85	-0.32/0.14	0.95/2.32	3.28/2.78	2.29/2.00	2.48/2.38	2.41/-1.73	2.13/-1.58	0.32/2.02
Θ(60°)	4.79/4.98	3.84/2.48	2.79/2.48	3.44/3.27	2.23/1.05	-0.81/-1.43	-1.28/-2.18	-4.54/-3.50	-3.90/-2.83	-2.41/-3.29	-3.43/-3.33	-6.21/-2.91	-0.61/0.95	1.88/3.00	2.60/4.07	2.84/0.13	0.32/-1.64	2.02/2.61	2.81/2.51	0.63/0.46	2.62/3.01	3.11/2.96	2.88/2.40	1.70/2.58
Θ(67.5°)	4.18/4.06	3.08/-1.58	3.17/3.08	4.26/4.40	3.48/2.81	0.03/-2.14	0.67/-1.34	-2.51/-2.70	-3.41/-7.26	-4.46/-3.10	-2.28/-3.13	-5.78/-0.65	1.40/2.18	3.09/3.60	4.82/3.90	3.71/-1.56	1.60/2.80	2.59/2.82	3.00/2.49	1.33/-1.86	4.01/3.05	2.72/-1.99	1.88/2.15	2.44/3.07
Θ(75°)	2.26/-1.80	3.21/-1.59	2.87/3.70	4.57/4.91	3.74/3.04	0.58/-2.25	2.25/4.39	1.88/0.01	-0.70/-1.54	1.73/-1.43	0.62/-2.18	-4.63/-1.27	0.05/2.49	2.41/2.94	4.03/2.84	3.61/2.98	2.05/2.65	2.66/3.28	2.49/2.39	1.68/2.36	3.04/-1.77	1.20/0.51	0.36/-1.61	1.98/-1.61
Θ(82.5°)	0.30/0.31	3.57/-1.30	1.99/3.27	3.83/-4.76	2.86/-1.75	-0.02/-3.78	2.22/5.10	3.50/-1.28	0.62/0.26	2.94/2.38	0.24/-3.77	-5.14/-0.87	-0.20/2.75	1.29/2.75	2.22/1.68	3.74/3.73	2.48/2.56	2.33/2.52	1.10/0.47	0.95/-1.60	2.33/2.52	1.10/0.40	-0.71/-1.94	-1.76/0.73
Θ(90°)	-1.95/-1.29	2.75/-1.00	0.63/-1.34	1.95/3.92	1.31/0.26	-2.34/-7.38	0.36/3.98	3.32/-1.23	0.49/-0.78	1.51/2.10	-0.87/-6.66	-5.57/-2.87	-0.44/3.04	-0.57/-1.77	-0.37/0.68	2.40/3.40	1.85/-1.62	0.63/0.35	-1.42/0.72	1.98/0.82	-0.61/-0.16	-1.84/-4.44	-3.44/-0.24	0.74/-2.14
Θ(97.5°)	-3.72/-2.80	1.44/-1.05	-1.04/-1.65	0.25/2.73	0.13/-2.19	-6.28/-7.97	-0.81/-1.38	1.59/-0.52	-2.55/-2.90	0.23/-0.04	-2.71/-8.26	-8.75/-4.27	-0.27/-1.08	-2.12/-0.83	-3.00/-0.66	0.72/-1.08	0.32/-1.58	-2.67/-2.82	-4.27/0.31	0.06/-2.17	-2.28/-2.89	-2.44/-5.83	-3.53/-1.49	-0.13/-3.31
Θ(105°)	-5.94/-7.27	-0.67/0.28	-2.46/-5.18	-1.82/0.77	-0.36/-3.65	-6.64/-4.61	-1.61/-1.94	-1.21/-2.07	-3.32/-5.28	-0.33/-1.41	-4.97/-10.38	-9.90/-6.27	-2.05/-0.95	-2.67/-2.36	-3.14/-2.47	-2.52/-5.39	-2.45/-8.13	-4.84/-8.82	-9.03/-2.63	-4.78/-4.06	-3.09/-6.23	-3.40/-4.23	-5.00/-3.23	-2.36/-3.11
Θ(112.5°)	-11.52/-11.61	-3.81/-1.37	-2.79/-5.03	-2.29/-1.76	-0.85/-2.79	-7.90/-5.45	-2.89/-4.21	-3.02/-4.34	-5.57/-5.83	-2.34/-4.12	-7.50/-9.69	-8.03/-5.91	-1.61/-1.96	-4.20/-2.79	-4.75/-6.70	-1.40/-5.25	-4.45/-14.40	-9.07/-3.10	-10.82/-3.81	-7.95/-3.07	-5.11/-9.14	-3.51/-1.68	-8.71/-7.00	-5.89/-2.73
Θ(120°)	-11.39/-9.31	-6.81/-3.80	-4.51/-5.56	-4.70/-5.60	-5.27/-3.03	-5.16/-6.82	-6.95/-5.23	-5.58/-7.40	-8.81/-8.22	-5.31/-6.07	-8.41/-5.34	-5.03/-5.67	-1.87/-2.11	-7.92/-4.57	-6.08/-5.46	-2.48/-4.63	-9.73/-5.21	-8.55/-2.88	-5.85/-3.37	-2.57/-4.30	-5.61/-7.99	-3.36/-2.31	-9.25/-11.63	-6.72/-3.32
Θ(127.5°)	-13.52/-7.01	-7.35/-6.26	-8.06/-5.30	-9.47/-10.22	-8.10/-5.41	-8.33/-8.64	-6.55/-9.31	-7.95/-6.12	-7.83/-9.60	-5.75/-6.55	-11.57/-9.02	-3.59/-4.46	-3.41/-5.06	-12.10/-4.14	-1.01/-7.31	-8.71/-7.14	-5.40/-2.19	-4.62/-4.29	-6.80/-6.43	-4.21/-6.53	-4.10/-3.01	-9.72/-12.38	-5.03/-4.52	
Θ(135°)	-12.04/-7.14	-6.10/-11.28	-7.38/-5.02	-4.79/-8.41	-8.61/-5.52	-6.78/-5.34	-5.48/-8.56	-5.42/-5.95	-14.27/-12.52	-9.78/-6.96	-5.13/-6.39	-11.21/-5.50	-12.81/-15.39	-12.61/-8.50	-9.28/-4.29	-10.02/-6.77	-7.58/-3.79	-4.58/-3.98	-13.53/-10.01	-4.33/-6.65	-5.24/-9.56	-5.39/-4.07	-3.51/-10.98	-9.35/-7.83
Θ(142.5°)	-12.35/-11.31	-10.64/-13.07	-12.31/-10.25	-11.25/-11.65	-9.04/-9.20	-12.18/-9.96	-9.69/-9.80	-10.66/-14.93	-9.64/-5.43	-6.09/-12.69	-6.93/-9.62	-9.02/-15.01	-13.74/-13.52	-12.24/-14.32	-14.36/-9.97	-6.95/-6.53	-5.67/-5.32	-4.74/-8.61	-15.60/-11.92	-4.82/-7.18	-7.37/-11.46	-7.74/-9.53	-5.30/-8.90	-7.85/-9.79
Θ(150°)	-13.73/-9.73	-10.82/-11.41	-14.06/-12.73	-9.65/-7.47	-7.99/-9.08	-7.05/-6.91	-7.06/-8.64	-7.98/-8.93	-10.85/-11.32	-6.74/-4.15	-6.34/-9.25	-10.00/-10.95	-11.90/-12.99	-11.87/-13.11	-11.04/-8.50	-8.88/-11.31	-10.20/-9.40	-10.28/-13.58	-8.48/-8.76	-8.89/-7.97	-7.71/-8.50	-14.98/-13.61	-12.36/-14.90	
Θ(157.5°)	-15.20/-11.67	-10.54/-10.32	-10.15/-12.84	-13.02/-9.48	-6.91/-7.83	-8.91/-7.18	-5.87/-6.26	-5.96/-4.55	-5.39/-7.42	-7.71/-7.58	-8.08/-11.40	-14.16/-14.01	-14.53/-14.86	-11.40/-12.67	-12.26/-11.40	-9.03/-10.08	-13.27/-15.82	-13.92/-12.28	-14.50/-10.96	-7.75/-4.99	-4.22/-5.03	-6.10/-7.95	-10.78/-12.93	-14.31/-15.04
Θ(165°)	-14.65/-12.46	-11.47/-13.15	-15.47/-15.10	-14.71/-13.82	-14.75/-14.42	-11.85/-9.17	-8.96/-8.22	-8.14/-7.93	-8.74/-11.51	-11.91/-9.12	-8.01/-8.63	-10.02/-14.46	-15.77/-12.32	-8.24/-6.60	-7.56/-9.61	-10.09/-9.98	-13.88/-14.81	-11.30/-9.88	-10.13/-11.10	-9.58/-8.54	-7.98/-9.20	-9.64/-9.59	-9.70/-11.52	-15.48/-15.23
Θ(172.5°)	-8.93/-10.17	-11.46/-12.74	-14.97/-15.85	-15.52/-16.17	-15.36/-15.06	-15.79/-15.39	-13.48/-12.98	-12.35/-12.27	-11.93/-13.10	-11.96/-11.64	-9.90/-9.36	-13.74/-13.25	-15.17/-12.73	-12.92/-13.57	-14.20/-13.53	-10.98/-10.61	-10.47/-10.49	-10.44/-9.91	-9.72/-9.78	-9.27/-8.88	-8.55/-9.10	-10.06/-10.69	-10.27/-9.23	-8.63/-8.60
Θ(180°)	-13.05/-14.08	-13.64/-14.23	-13.38/-12.38	-11.78/-11.93	-12.08/-11.67	-10.84/-10.39	-10.82/-10.07	-9.82/-10.07	-10.66/-10.90	-10.93/-10.12	-10.36/-10.53	-9.78/-8.73	-8.10/-7.38	-7.54/-9.55	-10.84/-10.72	-10.40/-9.81	-9.79/-10.54	-11.71/-11.40	-12.05/-12.58	-12.09/-12.74	-13.47/-13.80	-12.61/-12.47	-13.19/-13.79	-14.45/-14.10
Freq(Hz)	6.475GPol.	TotalAnt.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°)	-10.03/-9.28	-8.46/-8.30	-8.04/-8.50	-8.71/-8.01	-7.43/-7.14	-7.23/-7.04	-7.02/-6.91	-7.18/-6.68	-6.12/-5.75	-5.87/-5.76	-5.57/-5.43	-5.61/-5.75	-6.14/-6.56	-6.49/-6.08	-5.49/-5.41	-5.56/-5.82	-6.35/-7.06	-6.79/-7.16	-7.77/-8.15	-8.51/-8.41	-8.77/-8.60	-8.86/-9.41	-8.16/-8.96	-9.80/-9.74
Θ(7.5°)	-5.13/-5.26	-5.23/-6.50	-5.58/-5.86	-5.65/-5.58	-5.51/-5.52	-5.92/-6.06	-6.81/-1.73	-7.16/-7.72	-8.75/-9.07	-9.59/-10.42	-10.23/-9.76	-9.49/-9.41	-9.90/-9.78	-8.70/-7.29	-6.04/-5.20	-4.76/-5.03	-5.22/-4.57	-5.40/-4.92	-5.02/-4.83	-4.51/-2.43	-3.70/-3.57	-3.77/-4.11	-4.33/-4.30	-4.71/-5.01
Θ(15°)	-5.01/6.33	-7.11/-7.65	-8.41/-8.25	-7.12/-5.89	-4.50/-3.58	-2.64/-2.66	-3.64/-4.21	-5.36/-6.23	-6.89/-7.33	-8.63/-9.38	-10.99/-12.22	-10.82/0.93	-7.31/-6.28	-4.82/-6.33	-3.38/-3.60	-4.02/-4.31	-4.93/-5.26	-5.48/-7.46	-7.51/-7.26	-6.22/-5.90	-5.31/-5.20	-5.57/-5.38	-5.12/-4.66	-4.30/-4.45
Θ(22.5°)	-5.50/-8.24	-10.40/-11.53	-11.03/-8.81	-6.82/-5.55	-4.31/-3.45	-3.28/-4.43	-8.11/-13.40	-15.15/-12.31	-9.91/-9.20	-10.11/-12.52	-16.00/-14.59	-9.97/-6.82	-6.20/-5.54	-4.17/-3.59	-3.68/-3.98	-4.49/-4.93	-5.40/-7.29	-9.93/-11.33	-9.47/-7.59	-7.24/-7.18	-7.37/-8.38	-7.92/-5.54	-3.12/-1.28	-1.45/-2.94
Θ(30°)	-8.11/-11.27	-11.84/-9.98	-9.32/-4.76	-1.51/-0.22	-1.34/-3.40	-7.20/-8.32	-7.62/-8.78	-4.64/-3.83	-3.29/-3.34	-4.27/-5.04	-6.78/-7.62	-5.47/-3.20	-1.62/-0.80	-1.37/-2.29	-3.05/-3.58	-3.69/-3.58	-5.20/-9.21	-15.48/-10.90	-5.68/-6.38	-3.00/-2.63	-3.42/-5.19	-7.38/-6.73	-4.07/-2.09	-2.13/-3.91
Θ(37.5°)	-3.41/-2.57	-1.65/-3.17	-5.43/-4.05	-1.68/-0.21	-0.60/-1.84	-2.93/-4.36	-4.17/-7.28	-1.93/-2.23	-3.81/-5.26	-5.05/-3.55	-3.37/-1.64	0.18/0.83	0.30/-1.46	-1.77/-0.95	-1.31/-2.30	-3.86/-5.57	-6.88/-6.25	-8.67/-10.85	-6.38/-3.51	-2.55/-2.50	-2.32/-2.19	-2.95/-2.78	-1.42/-1.63	-2.02/-2.59
Θ(45°)	-0.04/-1.73	2.60/-1.54	-0.03/-0.45	0.34/0.97	0.99/-1.22	-0.39/-2.97	-2.50/-1.17	-0.81/-1.90	-2.46/-2.69	-3.50/-1.46	-1.46/-1.49	-1.24/-1.45	-1.66/-3.23	-2.17/0.29	0.44/0.88	1.31/-2.61	-4.30/-3.64	-3.53/-3.83	-1.51/0.34	1.47/2.06	1.62/0.32	-1.06/-2.05	-1.27/-0.76	-1.55/-1.65
Θ(52.5°)	1.49/2.01	1.94/-1.90	2.27/2.01	1.66/-1.17	0.49/-1.15	-0.79/-4.31	0.48/-2.85	-1.16/-0.73	-1.13/0.30	0.71/0.56	-0.45/-2.81	-7.37/-11.92	-6.66/-3.94	-0.36/-1.80	1.99/2.70	3.22/-1.85	2.17/2.06	0.38/-1.20	0.71/-2.49	2.95/3.20	3.61/-1.56	-0.22/-2.31	-2.98/-2.73	-1.49/-0.39
Θ(60°)	2.44/3.23	1.22/0.91	2.22/2.39	2.61/2.74	2.25/2.00	0.27/-1.40	-8.45/-5.26	-3.71/-0.66	1.05/0.59	-1.13/-3.00	-4.80/-5.30	-6.30/-10.36	-6.82/-1.35	1.26/2.83	4.13/3.55	4.56/3.03	2.65/2.56	1.51/-0.02	2.29/2.71	3.22/4.09	4.15/-1.81	0.37/-2.28	2.69/-0.74	-0.41/-0.91
Θ(67.5°)	2.25/-1.80	0.36/0.56	1.39/2.62	2.92/4.02	4.09/3.30	2.68/-1.90	-4.05/-1.27	-3.53/-1.39	2.04/0.04	-3.78/-4.36	-5.97/-5.98	-3.45/-3.62	-4.02/2.02	3.46/3.61	4.24/2.96	4.27/3.59	2.63/-1.70	0.80/-1.06	3.39/3.29	4.04/4.39	3.30/-0.35	-1.20/-1.68	-1.13/-0.79	-0.45/-0.03
Θ(75°)	1.60/-1.28	-1.20/0.31	0.48/2.75	2.81/4.68	4.66/3.99	4.01/-1.06	-0.53/-7.99	0.80/-1.95	2.92/-3.77	-1.22/-0.66	-1.69/-4.73	-4.51/-1.15												



Antenna Pattern_6G

Appendix I

Θ(75°)	-0.420/32	1.503/44	2.682/18	3.692/29	0.400/-1.00	-0.465/0.21	-0.090/35	2.622/81	3.664/98	5.244/63	1.331/14	3.253/53	2.180/27	-1.15/-4.45	-1.562/86	2.288/0.00	1.062/74	2.510/10	-2.69/-1.44	-0.240/-31	1.593/63	2.234/20	4.462/99	2.020/37
Θ(82.5°)	-3.16/0.95	1.793/41	1.782/64	3.372/16	0.860/66	-0.26/-1.10	-0.15/-0.01	2.002/20	2.985/19	4.313/22	0.08/-0.03	2.683/80	2.45/-0.02	-1.67/-5.70	-1.59/-81	1.28/-1.89	0.73/-36	3.57/-0.65	-4.39/-1.74	-1.19/-0.08	-0.02/-2.80	-0.44/-2.29	3.152/35	0.64/-1.59
Θ(90°)	-5.06/0.22	1.512/60	0.191/40	2.230/41	-0.50/0.60	-2.09/-3.85	-1.02/-0.66	-0.261/47	1.694/22	3.301/81	-0.70/-1.59	0.462/91	2.99/-0.97	-1.21/-7.53	-4.02/0.44	3.66/-0.31	-0.503/44	3.66/-0.89	-6.36/-2.71	-2.38/-0.16	-1.37/-4.70	-2.83/-0.33	1.851/33	-0.99/-8.3
Θ(97.5°)	-5.67/-2.08	0.790/61	-2.120/0.5	0.46/-2.67	-3.11/-0.66	-4.80/-7.02	-2.15/-4.13	-1.140/16	0.863/0.5	1.86/-0.38	-2.35/-2.39	0.451/84	1.91/-0.85	-2.81/-7.53	-5.07/-1.09	-1.77/-4.44	-3.231/93	1.12/-4.44	-6.60/-5.20	-5.20/-2.20	-4.76/-6.72	-4.68/-2.35	0.73/-0.70	-3.61/-10.18
Θ(105°)	-10.87/-3.92	-1.73/-2.23	-4.64/-2.01	-1.69/-8.4	-6.09/-3.80	-7.29/-7.4	-4.93/-6.09	-1.76/-1.41	-1.68/-1.59	1.48/-0.66	-5.01/-3.11	-1.56/-0.07	0.61/-2.29	-3.93/-6.08	-7.79/-1.44	-2.27/-6.46	-7.49/-1.40	-3.04/-7.84	-9.06/-9.27	-11.52/-6.18	-10.61/-8.44	-7.70/-3.20	-1.53/-1.47	-6.06/-13.33
Θ(112.5°)	-9.23/-6.43	-3.85/-2.63	-4.91/-5.03	-2.35/-3.76	-4.41/-6.56	-6.99/-7.22	-5.37/-7.84	-5.07/-5.53	-3.57/-1.10	-0.73/-3.54	-6.76/-6.20	-3.01/-1.87	-1.49/-3.15	-4.28/-8.45	-6.84/-3.87	-4.98/-9.49	-6.01/-3.23	-2.17/-5.87	-7.53/-9.92	-13.95/-7.28	-7.45/-4.74	-9.00/-4.26	-2.84/-3.31	-6.40/-14.7
Θ(120°)	-9.61/-7.80	-3.13/-1.22	-2.51/-4.78	-3.27/-2.58	-4.21/-5.53	-6.31/-6.15	-5.85/-9.86	-10.32/-4.41	-6.52/-3.22	-3.26/-8.99	-9.66/-8.88	-8.70/-4.24	-3.32/-4.10	-9.40/-14.28	-13.37/-4.21	-5.26/-14.98	-4.67/-5.29	-3.78/-5.53	-7.67/-12.35	-10.22/-6.53	-8.07/-7.23	-6.03/-4.48	-4.70/-6.14	-5.50/-14.78
Θ(127.5°)	-12.14/-8.50	-4.91/-3.37	-2.92/-8.24	-8.93/-4.72	-6.30/-15.52	-13.33/-11.14	-9.80/-7.76	-8.84/-5.45	-3.77/-5.43	-5.35/-11.01	-14.81/-6.45	-3.41/-4.07	-4.83/-7.93	-10.84/-15.78	-15.71/-6.20	-5.72/-14.62	-8.36/-8.10	-9.35/-7.01	-8.37/-10.63	-4.12/-11.21	-7.48/-7.59	-7.39/-8.11	-2.97/-5.29	-8.53/-12.69
Θ(135°)	-9.29/-9.11	-5.86/-5.56	-5.38/-5.71	-4.75/-4.1	-6.39/-8.85	-7.46/-11.21	-11.11/-11.16	-7.59/-5.53	-2.88/-4.60	-6.71/-6.02	-7.51/-10.10	-3.67/-3.88	-2.04/-15.89	-16.15/-14.61	-15.34/-12.08	-4.12/-13.78	-9.55/-8.28	-8.00/-15.04	-7.93/-7.47	-10.91/-13.25	-9.84/-8.34	-12.61/-8.37	-2.51/-4.85	-13.24/-8.66
Θ(142.5°)	-9.49/-11.42	-8.24/-6.54	-8.41/-9.59	-8.99/-9.13	-8.67/-10.10	-8.43/-12.09	-13.63/-13.84	-9.55/-9.29	7.58/-7.54	-12.32/-10.16	-6.69/-6.30	-8.10/-8.00	-13.57/-14.58	-14.70/-15.87	-15.68/-10.20	-8.70/-13.15	-12.49/-7.71	-9.99/-15.86	-9.41/-7.66	-12.00/-11.76	-9.12/-8.71	-8.93/-6.35	-7.20/-8.10	-9.27/-9.56
Θ(150°)	-10.40/-15.03	-11.33/-7.17	-3.83/-3.31	-5.88/-7.21	-6.47/-8.13	-7.30/-9.02	-7.26/-4.16	-2.93/-3.53	-6.67/-9.22	-7.68/-9.07	-14.14/-13.48	-8.45/-7.90	-10.29/-14.11	-11.53/-8.45	-10.02/-11.57	-12.68/-10.47	-9.75/-7.79	-8.86/-15.70	-15.17/-13.27	-10.74/-13.52	-8.33/-5.22	-5.52/-4.79	-3.98/-5.24	-7.07/-8.78
Θ(157.5°)	-7.84/-9.57	-9.47/-7.47	-6.33/-6.48	-7.12/-5.24	-5.79/-9.52	-12.65/-11.37	-10.75/-7.52	-4.96/-3.66	-4.08/-6.97	-10.97/-9.08	-7.65/-9.47	-10.47/-12.05	-15.11/-16.07	-13.80/-12.61	-13.35/-11.30	-11.82/-14.65	-12.20/-8.29	-6.48/-5.81	-12.00/-14.89	-13.03/-9.51	-9.90/-10.78	-8.61/-6.34	-6.40/-7.95	-8.36/-9.09
Θ(165°)	-8.37/-9.80	-12.01/-12.85	-11.67/-9.33	-6.76/-5.04	-4.33/-4.80	-5.64/-5.95	-6.04/-8.07	-11.34/-11.30	-9.11/-10.29	-13.51/-15.17	-14.25/-12.00	-10.34/-9.69	-10.12/-11.09	-11.93/-14.69	-12.40/-9.81	-9.62/-8.44	-7.91/-8.55	-11.46/-11.51	-11.69/-10.59	-11.19/-10.49	-10.70/-10.85	-13.35/-15.77	-14.03/-11.51	-9.16/-7.43
Θ(172.5°)	-7.94/-9.44	-12.90/-15.37	-15.82/-13.68	-12.06/-9.21	-7.99/-7.92	-8.31/-7.68	-8.92/-8.42	-8.54/-9.85	-11.08/-12.75	-14.77/-15.42	-15.31/-14.17	-14.16/-13.34	-13.19/-11.04	-8.81/-7.51	-7.15/-7.89	-9.03/-8.12	-9.31/-10.19	-10.47/-9.30	-9.14/-8.60	-9.12/-9.58	-11.24/-13.06	-12.69/-11.05	-9.38/-8.19	-7.88/-7.74
Θ(180°)	-8.65/-7.93	-7.57/-7.40	-7.61/-7.30	-6.80/-6.51	-6.51/-6.98	-7.30/-7.27	-6.87/-6.69	-6.51/-6.56	-7.14/-7.68	-8.43/-8.89	-9.07/-9.38	-9.28/-8.48	-8.44/-8.98	-9.29/-10.65	-11.54/-11.66	-11.06/-10.53	-10.38/-10.95	-11.68/-12.12	-12.30/-11.86	-11.46/-10.53	-9.25/-8.12	-7.39/-8.14	-8.83/-9.59	-9.98/-9.03
Freq(Hz)	6.475GPol.	TotalAnt.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°)	-4.65/-4.09	-3.86/-3.61	-3.65/-3.80	-3.66/-3.90	-3.86/-3.71	-3.91/-3.77	-3.87/-3.86	-3.48/-3.23	-3.06/-2.85	-3.11/-3.20	-3.39/-3.49	-3.58/-3.64	-3.84/-4.22	-4.71/-4.71	-4.86/-4.61	-4.72/-4.89	-5.15/-5.59	-5.92/-5.27	-5.70/-5.27	-4.47/-4.96	-4.90/-5.02	-5.39/-5.55	-5.345/-4.93	
Θ(7.5°)	-6.66/-7.01	-7.02/-6.56	-6.96/-8.06	-8.05/-8.38	-8.76/-8.88	-9.05/-8.92	-8.84/-8.02	-7.24/-6.68	-6.16/-5.70	-5.51/-5.40	-5.53/-5.36	-5.32/-4.87	-4.83/-5.15	-5.51/-5.23	-4.86/-4.61	-4.52/-4.38	-4.06/-3.78	-3.78/-3.63	-3.52/-3.90	-3.55/-3.65	-3.60/-3.70	-4.05/-5.07	-5.72/-6.43	-6.45/-6.06
Θ(15°)	-9.15/-9.56	-8.31/-7.39	-7.16/-7.36	-7.63/-8.91	-11.11/-12.90	-14.94/-15.46	-12.45/-10.20	-7.88/-6.80	-5.94/-7.46	-4.22/-4.12	-4.38/-4.67	-5.12/-6.53	-6.26/-7.14	-7.94/-8.56	-8.99/-8.43	-7.81/-7.27	-6.72/-6.35	-5.77/-5.33	-5.21/-4.57	-5.37/-5.26	-4.40/-4.03	-5.02/-7.31	-10.17/-11.16	-10.23/-8.42
Θ(22.5°)	-7.68/-7.50	-6.91/-7.19	-7.10/-4.93	-10.29/-6.90	-4.59/-4.13	-6.09/-9.73	-9.51/-7.66	-6.79/-6.10	-4.40/-2.59	-2.09/-2.95	-4.56/-5.72	-6.98/-8.08	-8.95/-9.31	-9.92/-10.55	-1.19/-0.43	-1.19/-0.43	-0.23/-0.91	-2.08/-3.19	-3.26/-1.38	-0.090/-0.1	0.50/-3.77	-1.12/-1.00	-7.80/-8.8	-6.34/-6.80
Θ(30°)	-5.34/-4.71	-4.85/-6.70	-10.64/-10.92	-5.71/-3.73	-4.05/-4.84	-8.12/-11.44	-6.95/-5.49	-6.47/-6.97	-5.84/-3.92	-2.43/-2.89	-4.93/-6.21	-6.91/-8.88	-9.98/-9.21	-11.20/-10.50	-11.15/-13.33	-11.29/-8.57	-9.62/-8.79	-6.24/-4.53	-3.25/-2.28	-1.090/-0.9	0.85/-1.42	2.12/-88	0.74/-0.57	-1.96/-3.69
Θ(37.5°)	-4.80/-3.28	-1.25/-4.09	-1.02/-4.16	-3.33/-2.66	-3.80/-8.42	-9.31/-6.11	-4.39/-5.23	-4.68/-2.98	-1.56/-9.00	-0.78/-1.58	-2.64/-0.91	-0.08/-0.89	-3.31/-6.76	-3.67/-2.46	-3.21/-5.25	-6.55/-5.68	-6.25/-4.93	-4.44/-8.1	-4.09/-2.56	-3.16/-1.15	-0.300/-69	1.27/-103	-0.68/-300	
Θ(45°)	-7.40/-5.60	-3.89/-1.85	1.44/-1.26	-0.26/-8.08	-1.31/-2.23	-3.52/-2.08	-4.81/-4.52	-1.09/-1.07	1.84/-7.15	0.820/-0.3	0.310/-82	1.66/-0.54	-1.040/-12	-0.230/-0.1	-0.230/-0.1	-0.230/-0.1	-0.230/-0.1	-0.230/-0.1	-0.230/-0.1	-0.230/-0.1	-0.230/-0.1	-0.230/-0.1	-0.230/-0.1	-0.230/-0.1
Θ(52.5°)	-7.77/-5.81	-7.62/-9.12	-2.130/74	-0.82/-2.79	-0.83/-0.06	-0.28/-2.35	-5.11/-2.50	1.49/-1.84	0.700/-78	0.72/-0.55	-0.27/-0.33	-1.90/-1.54	1.720/-97	-1.55/-0.63	0.81/-1.30	1.00/-1.68	1.24/-0.38	-2.25/-2.71	-1.38/-1.82	3.44/-2.71	1.960/-74	0.69/-1.79	1.650/-33	-2.25/-7.97
Θ(60°)	-4.39/-1.25	-1.26/-8.58	-6.26/-2.14	-3.61/-4.12	-0.81/-0.75	-2.22/-0.53	-4.40/-1.31	1.560/-22	1.001/-67	3.050/-72	-1.34/-0.63	-1.18/-1.92	0.820/-18	-3.32/-8.20	1.272/-69	2.462/-95	1.52/-2.70	-5.80/-5.91	-1.022/-19	3.832/-55	1.42/-136	1.893/-43	3.770/-54	-0.595/-5.4
Θ(67.5°)	-1.682/-0.8	-2.47/-2.52	-5.69/-3.14	-2.76/-0.62	1.020/-16	-1.57/-4.17	-1.682/-0.0	2.581/-24	2.145/-06	5.11/-48	-0.96/-1.24	1.990/-71	0.63/-130	-5.37/-1.93	2.973/-49	3.764/-06	1.74/-1.37	-4.44/-5.54	-2.27/-0.05	4.013/-04	1.702/-12	2.855/-99	4.46/-36	1.00/-9.9
Θ(75°)	-3.11/2.39	3.06/-0.35	-3.03/-3.26	-2.22/-1.03	1.68/-1.76	-1.05/-3.86	-0.43/-0.05	2.602/-15	3.96/-56	6.123/-24	-0.032/-0.50	2.912/-30	0.07/-0.90	-5.22/-5.02	1.683/-32	3.264/-29	2.48/-0.36	-1.84/-5.57	-2.070/-61	3.923/-05	1.120/-58	1.492/-98	3.660/-47	0.190/-40
Θ(82.5°)	-4.56/-1.61	2.440/-15	-1.91/-2.34	-2.420/-51	1.601/-97	-2.05/-2.87	0.032/-76	1.581/-40	4.245/-86	4.832/-25	0.411/-43	1.391/-52	-1.43/-1.42	-4.40/-4.55	1.331/-99	2.553/-76	2.920/-74	-0.63/-4.13	-2.49/-8.01	3.202/-34	0.47/-0.64	-0.53/-1.84	2.32/-1.53	-1.28/-0.00
Θ(90°)	-7.160/24	0.65/-0.92	-1.96/-3.27	-3.08/-0.81	1.111/-15	-2.78/-3.03	-1.260/94	0.77/-0.83	3.404/-20	3.04/-51	-0.29/-1.40	-1.950/-31	-1.27/-2.19	-1.98/-6.83	0.960/-79	0.913/-01	2.671/-30	-0.34/-3.73	-5.22/-2.90	2.230/-86	0.68/-3.61	-3.050/-05	0.48/-1.82	-2.85/-2.40
Θ(97.5°)	-8.31/-1.04	-1.29/-2.66	-3.19/-4.65	-4.43/-2.54	-0.80/-1.19	-4.47/-5.38	-3.60/-1.76	-1.79/-2.30	1.792/-54	0.09/-1.42	-2.92/-5.39	-4.22/-1.76	-1.57/-4.47	-2.38/-9.89	-0.40/-1.24	-2.640/-87	-0.14/-0.21	-0.85/-7.22	-7.32/-2.86	-0.610/-41	-0.91/-8.36	-1.19/-2.41	-2.07/-3.01	-8.31/-5.86
Θ(105°)	-9.15/-1.87	-3.58/-3.32	-6.43/-5.80	-5.34/-3.33	-4.50/-3.02	-7.53/-8.14	-7.15/-4.13	-9.26/-5.14	-4.570/-67	-1.67/-3.56	-5.21/-8.89	-6.87/-2.25	-1.99/-5.53	-3.22/-12.41	-2.75/-1.35	-4.21/-2.67	-4.91/-2.48	-2.42/-13.97	-9.87/-5.37	-5.50/-2.06	-4.35/-7.00	-5.32/-4.29	-3.34/-3.90	-4.83/-8.79
Θ(112.5°)	-9.874/-3.8	-6.90/-8.62	-11.38/-9.79	-6.79/-3.45	-4.93/-7.14	-8.71/-8.41	-6.71/-5.92	-7.05/-6.11	-3.75/-1.05	-2.93/-4.58	-8.05/-5.69	-4.18/-2.74	-3.21/-6.72	-5.83/-9.33	-5.20/-3.66	-4.43/-3.54	-4.12/-3.78	-4.26/-15.49	-10.17/-5.45	-7.05/-3.71	-9.28/-5.20	-8.20/-5.09	-4.53/-4.00	-6.65/-12.30
Θ(120°)	-10.52/-5.88	-5.02/-3.60	-8.02/-10.20	-10.19/-5.32	-2.51/-6.32	-12.78/-7.16	-6.91/-6.87	-7.07/-7.86	-4.62/-2.14	-1.91/-4.54	-8.22/-8.31	-7.14/-5.39	-5.65/-7.42	-8.11/-12.30	-9.85/-6.28	-7.55/-9.03	-5.76/-3.53	-6.23/-10.76	-11.31/-6.36	-5.50/-3.30	-3.62/-2.60	-10.96/-6.02	-5.69/-6.17	-5.80/-14.39
Θ(127.5°)	-8.97/-9.33	-3.98/-1.52	-7.56/-8.62	-9.85/-11.43	-5.56/-6.87	-12.03/-13.99	-12.06/-14.14	-11.23/-4.72	-4.37/-2.19	-7.20/-13.10	-14.38/-11.64	-9.07/-8.22	-7.40/-10.04	-5.99/-11.62	-14.66/-9.90	-7.75/-10.68	-7.35/-3.54	-5.38/-8.72	-7.30/-6.60	-4.08/-8.80	-4.66/-6.67	-11.46/-6.06	-5.88/-7.51	



Antenna Pattern_6G

Appendix I

Θ(120°)	-10.27/-4.38	-5.06/-9.92	-13.31/-8.14	-8.48/-2.23	-4.95/-8.86	-12.42/-10.74	-11.34/-6.29	-3.97/-8.04	-9.77/-2.14	-4.64/-10.39	-7.08/-5.23	-3.12/-6.65	-7.84/-10.61	-7.52/-4.11	-6.66/-6.09	-5.68/-5.06	-14.96/-4.94	-3.35/-4.22	-6.26/-3.94	-3.57/-7.04	-7.02/-10.47	-12.81/-3.84	-11.16/-5.47	-11.64/-10.21
Θ(127.5°)	-5.73/-3.83	-5.61/-6.46	-12.34/-7.18	-10.72/-3.76	-4.85/-10.53	-15.44/-9.57	-10.51/-14.71	-10.25/-9.06	-11.00/-7.24	-2.17/-4.98	-10.52/-7.81	-3.96/-5.70	-7.52/-10.63	-9.19/-6.38	-4.63/-4.40	-14.51/-10.82	-12.20/-10.35	-7.93/-6.42	-6.40/-6.19	-2.53/-6.81	-11.80/-6.75	-7.08/-4.90	-12.13/-9.20	-10.70/-10.90
Θ(135°)	-5.85/-8.85	-4.30/-6.35	-10.24/-9.36	-9.02/-6.74	-4.78/-6.75	-11.13/-12.45	-9.22/-13.78	-10.50/-2.97	-1.66/-6.49	-8.18/-4.45	-3.48/-5.35	-14.11/-12.05	-11.89/-12.60	-8.46/-8.00	-9.04/-4.75	-3.27/-9.66	-10.52/-11.13	-11.02/-11.02	-10.04/-11.89	-4.59/-9.99	-6.43/-5.65	-6.54/-8.46	-15.31/-10.26	-7.00/-5.00
Θ(142.5°)	-4.68/-6.34	-4.58/-4.11	-11.18/-12.09	-10.41/-10.99	-12.06/-10.44	-9.98/-6.27	-5.78/-10.35	-15.28/-9.38	-4.44/-4.14	-8.32/-4.21	-11.75/-7.90	-6.63/-8.22	-10.63/-9.34	-7.35/-8.79	-6.59/-9.97	-6.98/-14.89	-12.20/-8.16	-12.17/-12.71	-7.66/-4.94	-8.35/-8.88	-6.13/-9.07	-9.46/-11.91	-13.33/-13.66	-8.08/-4.13
Θ(150°)	-6.04/-8.99	-8.53/-8.97	-13.03/-13.31	-9.17/-8.88	-8.50/-9.51	-13.66/-9.10	-7.57/-9.95	-7.27/-6.34	-10.50/-12.24	-8.44/-5.99	-4.58/-7.15	-8.14/-10.57	-11.49/-8.84	-8.59/-10.19	-10.39/-11.70	-12.00/-13.52	-13.70/-14.95	-15.07/-14.98	-12.31/-11.12	-15.14/-14.80	-12.90/-12.52	-11.59/-9.40	-11.90/-6.32	-5.11/-3.95
Θ(157.5°)	-6.37/-9.48	-14.11/-14.75	-15.29/-15.28	-15.17/-12.64	-9.87/-9.93	-12.65/-14.98	-14.58/-12.69	-6.91/-4.81	-5.07/-5.50	-6.67/-8.29	-8.36/-9.08	-11.99/-11.42	-10.29/-12.70	-11.44/-11.66	-12.80/-9.70	-9.69/-11.33	-12.00/-14.67	-15.27/-13.57	-14.50/-14.00	-12.60/-12.37	-15.43/-11.87	-10.23/-11.02	-8.43/-6.79	-8.58/-7.84
Θ(165°)	-11.67/-13.30	-14.76/-15.55	-15.18/-13.06	-10.29/-8.70	-7.58/-7.89	-9.54/-12.04	-13.50/-12.84	-12.35/-12.48	-12.14/-8.17	-6.00/-5.48	-6.74/-7.89	-10.28/-13.84	-13.28/-12.43	-11.02/-9.00	-7.38/-6.53	-7.93/-13.21	-14.25/-11.78	-11.81/-14.21	-13.30/-10.69	-8.85/-6.95	-8.48/-12.36	-15.50/-14.00	-15.19/-14.98	-13.50/-11.91
Θ(172.5°)	-15.68/-15.64	-14.64/-13.34	-11.68/-9.74	-8.50/-7.51	-6.92/-6.84	-6.59/-5.98	-5.88/-6.71	-7.44/-8.17	-9.13/-9.47	-8.84/-7.45	-6.72/-6.81	-7.52/-8.13	-9.38/-11.39	-14.15/-14.99	-15.56/-14.01	-12.45/-11.00	-10.01/-9.67	-9.65/-9.52	-9.63/-9.05	-8.99/-9.19	-10.78/-12.09	-12.62/-12.72	-13.69/-14.91	-15.82/-15.56
Θ(180°)	-9.86/-9.42	-7.80/-7.32	-7.06/-7.18	-6.61/-6.93	-6.82/-7.42	-8.17/-8.78	-9.28/-8.90	-8.26/-8.01	-7.93/-8.35	-9.00/-10.46	-10.86/-10.07	-10.06/-9.35	-9.34/-10.59	-11.72/-12.57	-12.43/-12.38	-12.77/-12.54	-11.19/-9.72	-8.24/-7.96	-8.07/-8.48	-8.28/-8.26	-8.17/-7.47	-7.60/-8.21	-9.93/-11.75	-12.43/-10.94
Freq(Hz)	6.475GPol.	TotalAnt.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°)	-5.25/-5.30	-5.15/-5.14	-5.07/-4.93	-5.14/-5.40	-5.46/-5.46	-5.28/-5.27	-5.33/-5.84	-6.16/-6.39	-6.50/-7.14	-7.41/-7.79	-7.70/-7.41	-7.33/-7.68	-7.97/-7.96	-8.33/-8.48	-8.29/-8.06	-7.47/-6.81	-5.58/-5.86	-6.14/-5.91	-6.21/-5.69	-6.23/-6.35	-6.18/-5.52	-5.19/-5.52	-5.13/-4.65	-4.52/-4.89
Θ(7.5°)	-11.70/-10.64	-9.03/-8.01	-7.25/-6.64	-6.81/-7.05	-6.53/-5.77	-5.26/-5.69	-5.61/-5.49	-5.18/-5.15	-4.56/-4.62	-4.69/-4.54	-3.81/-3.34	-3.43/-3.60	-3.59/-3.71	-3.78/-3.56	-3.49/-3.54	-3.78/-3.58	-3.57/-3.90	-4.33/-4.75	-5.36/-6.05	-6.11/-7.18	-8.92/-10.38	-10.89/-10.15	-10.10/-10.59	-11.03/-10.69
Θ(15°)	-10.27/-8.63	-7.41/-6.67	-6.59/-6.47	-5.87/-5.92	-5.73/-5.86	-6.52/-6.27	-5.98/-6.66	-5.61/-6.25	-7.24/-7.55	-7.34/-7.76	-7.63/-5.59	-4.86/-4.72	-4.44/-4.92	-5.66/-4.53	-5.10/-3.97	-3.29/-2.69	-2.08/-1.57	-1.46/-2.47	-3.46/-5.14	-6.72/-9.43	-14.40/-15.19	-13.09/-11.68	-10.52/-8.52	-8.21/-8.93
Θ(22.5°)	-5.20/-2.05	-1.36/-1.77	-3.84/-6.69	-9.49/-10.88	-10.22/-7.96	-5.95/-5.35	-5.75/-5.00	-6.33/-3.82	-5.16/-5.80	-6.08/-6.75	-6.52/-6.38	-5.97/-7.01	-7.61/-6.65	-4.95/-3.20	-1.75/-0.53	0.49/-0.97	1.46/-1.38	0.67/-0.70	-3.55/-6.11	-5.96/-4.70	-12.60/-12.37	-15.43/-11.87	-10.23/-11.02	-8.43/-6.79
Θ(30°)	-1.83/-2.34	-2.18/-2.31	-2.77/-3.65	-3.59/-3.99	-4.47/-5.24	-4.82/-5.45	-6.24/-4.37	-3.36/-4.29	-6.28/-4.98	-3.06/-2.86	-3.84/-6.29	-6.19/-5.02	-4.05/-4.59	-6.24/-5.12	-2.87/-1.37	-1.03/-1.02	-0.31/-0.66	1.34/-1.81	1.73/-0.50	-2.60/-6.52	-7.30/-6.25	-3.45/-1.20	-1.21/-2.56	-4.07/-2.85
Θ(37.5°)	0.17/-1.20	-2.86/-4.77	-1.85/-0.51	-0.23/-1.19	-1.92/-2.60	-4.67/-7.00	-7.62/-6.35	-5.06/-5.71	-5.42/-3.90	-3.70/-4.13	-1.88/-3.39	-3.29/-2.40	-1.94/-3.96	-3.53/-4.29	-1.71/-0.41	0.41/-0.04	0.52/-1.05	0.28/-0.49	-0.15/-0.17	-0.99/-2.90	-1.90/-0.32	1.10/-0.71	-1.42/-2.54	-0.69/-0.56
Θ(45°)	-8.60/-2.62	-4.64/-4.45	-2.01/-0.79	1.34/-0.32	-1.54/-3.37	-5.79/-6.95	-9.30/-7.78	-3.99/-4.18	-7.73/-7.11	-5.07/-2.82	-3.58/-3.00	-3.92/-2.83	-1.35/-0.51	-6.95/-3.31	-0.66/-0.46	0.02/-0.69	1.14/-0.56	-0.54/-1.56	-0.19/-1.90	1.29/-2.36	-3.91/-1.14	1.57/-0.96	-0.59/-0.12	1.49/-2.70
Θ(52.5°)	-3.81/-7.68	-10.99/-8.05	-3.53/-0.80	2.22/-1.40	1.30/-0.92	-4.79/-3.52	-4.51/-5.34	-2.17/-1.34	-3.90/-4.35	-3.28/-3.83	-4.61/-2.18	-2.09/-1.43	0.14/-0.98	-5.97/-4.10	-1.11/-0.53	0.83/-1.24	1.46/-2.23	2.64/-1.16	1.12/-2.71	1.50/-4.43	-8.22/-8.17	-5.61/-3.50	-1.99/-0.33	-1.23/-1.23
Θ(60°)	-2.92/-4.90	-6.57/-7.51	-1.81/-9.25	3.75/-2.47	3.27/-1.87	-1.04/-1.26	-1.55/-2.47	1.45/-2.45	-0.09/-1.29	-0.75/-0.44	0.24/-2.53	2.24/-1.00	0.22/-1.92	0.05/-2.07	-0.23/-1.07	3.15/-1.32	2.11/-1.07	1.28/-1.96	0.25/-5.44	-8.70/-9.70	-9.11/-3.86	-1.26/-1.08	-3.61/-1.22	-3.61/-1.22
Θ(67.5°)	-2.38/-4.81	-4.06/-2.62	1.63/-4.87	5.00/-0.14	4.51/-0.32	0.33/-2.23	-2.62/-1.35	2.41/-2.22	0.03/-1.66	1.09/-0.80	3.38/-5.84	5.05/-0.81	-0.68/-2.08	1.16/-0.30	3.37/-1.81	3.61/-3.25	1.54/-0.34	2.26/-2.31	0.55/-0.21	-2.06/-5.25	-9.48/-7.41	-3.08/-0.72	-0.59/-0.97	-2.10/-0.78
Θ(75°)	-4.58/-7.71	-5.00/-3.33	1.83/-4.13	4.71/-4.59	3.92/-2.36	-0.25/-5.12	-5.05/-1.74	0.76/-1.39	-0.83/-0.97	1.72/-2.70	3.65/-9.99	5.88/-2.96	-0.12/-0.47	1.04/-1.00	0.09/-1.36	3.38/-2.95	1.29/-0.17	2.58/-2.92	1.38/-0.32	-2.77/-5.26	-10.71/-5.88	-0.96/-0.66	0.20/-1.14	-1.35/-2.08
Θ(82.5°)	-6.14/-8.64	-5.41/-6.42	-0.59/-2.45	3.39/-0.06	3.17/-1.66	-0.49/-5.31	-4.97/-0.12	0.88/-0.42	-1.58/-1.72	0.77/-2.07	3.45/-5.80	5.47/-2.47	-0.40/-0.41	-0.76/-1.13	-0.37/-0.70	1.43/-1.86	1.33/-0.74	3.17/-3.63	1.22/-2.01	-3.04/-5.48	-8.50/-6.57	-1.57/-0.51	-0.63/-1.71	-1.07/-4.36
Θ(90°)	-5.39/-12.54	-5.89/-8.08	-3.31/-0.59	1.11/-4.48	1.44/-0.09	-1.37/-6.42	-0.47/-1.93	1.49/-1.97	-1.85/-2.83	-1.33/-1.20	1.87/-0.47	4.77/-2.29	-1.98/-1.67	-3.26/-1.03	-1.97/-0.87	-1.11/-0.11	1.30/-0.33	2.24/-1.12	0.48/-2.57	-3.71/-3.29	-6.46/-6.88	-3.54/-1.74	-1.41/-3.76	-3.56/-4.98
Θ(97.5°)	-5.51/-14.67	-8.50/-8.33	-5.10/-0.57	-0.00/-1.17	-0.83/-1.61	-2.50/-7.59	-6.41/-2.53	1.42/-3.33	-2.55/-2.20	-4.53/-0.70	1.60/-2.78	3.07/-1.06	-3.92/-3.22	-7.21/-0.65	-2.35/-2.57	-1.53/-1.76	0.79/-2.39	0.25/-1.93	-3.47/-1.64	-3.74/-2.29	-12.45/-12.59	-4.17/-1.46	-3.79/-4.68	-7.53/-4.91
Θ(105°)	-6.53/-15.26	-12.88/-8.17	-6.70/-2.05	-1.67/-0.44	-4.56/-5.82	-3.67/-11.20	-8.16/-2.74	-0.01/-2.59	-3.63/-2.95	-5.01/-5.35	-0.45/-1.14	0.98/-0.43	-5.69/-5.53	-8.85/-5.02	-3.28/-5.24	-2.49/-3.35	-3.61/-8.52	-3.27/-3.75	-9.98/-3.77	-2.60/-3.60	-12.61/-12.99	-3.92/-4.67	-6.41/-4.23	-12.50/-6.92
Θ(112.5°)	-10.51/-15.58	-12.04/-8.21	-9.33/-4.32	-3.50/-0.99	-6.14/-8.83	-7.02/-14.49	-10.96/-5.94	-3.61/-4.13	-4.05/-5.18	-4.82/-4.76	-3.20/-2.34	0.51/-1.79	-8.01/-7.48	-9.02/-2.70	-3.98/-4.16	-6.16/-6.26	-4.36/-3.65	-3.52/-5.31	-9.47/-6.08	-5.76/-13.25	-9.25/-7.40	-3.66/-1.95	-9.25/-7.20	-8.59/-4.46
Θ(120°)	-14.69/-14.81	-14.98/-13.87	-9.07/-5.28	-5.72/-3.30	-3.47/-12.88	-10.68/-14.32	-15.35/-5.23	-3.60/-4.02	-7.64/-15.71	-10.83/-4.80	-5.84/-5.53	-1.26/-2.44	-8.87/-9.23	-11.62/-4.42	-4.03/-5.45	-8.86/-9.17	-9.55/-7.47	-3.12/-7.87	-8.11/-4.68	-1.45/-5.95	-3.74/-8.49	-11.27/-9.24	-12.88/-13.00	-6.90/-11.54
Θ(127.5°)	-12.41/-8.30	-14.61/-10.95	-13.50/-5.46	-5.92/-5.85	-6.41/-9.46	-10.58/-8.87	-15.39/-3.85	-13.24/-12.91	-9.83/-4.92	-9.16/-8.56	-4.13/-1.71	-1.65/-5.31	-9.48/-9.16	-10.70/-2.70	-3.33/-7.10	-10.57/-8.06	-15.17/-10.23	-7.51/-16.12	-8.36/-6.94	-4.36/-6.29	-10.68/-12.15	-13.02/-6.47	-11.03/-8.99	-9.04/-15.44
Θ(135°)	-8.81/-10.11	-10.40/-8.32	-12.99/-9.57	-5.92/-7.55	-9.37/-14.09	-9.89/-7.81	-8.31/-9.18	-6.12/-6.78	-6.99/-5.51	-3.44/-6.80	-8.63/-5.75	-3.81/-6.47	-7.64/-12.22	-8.12/-4.32	-3.90/-9.49	-10.19/-12.19	-12.12/-14.52	-11.05/-13.66	-12.96/-9.43	-10.80/-6.22	-5.13/-8.47	-8.64/-7.83	-10.45/-6.79	-14.25/-12.70
Θ(142.5°)	-6.73/-6.84	-11.32/-14.39	-8.14/-9.80	-5.72/-8.76	-11.67/-11.15	-11.70/-11.16	-11.54/-8.62	-4.62/-4.34	-10.14/-15.79	-15.20/-10.24	-6.68/-6.45	-5.44/-6.83	-7.22/-12.16	-7.44/-6.49	-7.98/-6.02	-6.85/-12.08	-12.73/-13.38	-10.00/-11.14	-8.57/-8.75	-11.92/-11.47	-7.95/-10.17	-10.63/-11.48	-13.99/-12.01	-15.59/-8.91
Θ(150°)	-7.11/-5.43	-6.74/-10.43	-9.47/-7.50	-7.35/-8.31	-8.25/-9.90	-15.09/-11.02	-9.70/-14.06	-14.83/-15.11	-10.75/-6.37	-6.06/-8.54	-10.17/-7.73	-6.62/-6.88	-8.01/-12.34	-12.52/-14.46	-7.62/-7.53	-14.24/-14.64	-11.15/-14.25	-12.17/-9.51	-6.33/-6.89	-16.32/-7.38	-7.15/-8.61	-8.97/-8.76	-9.78/-11.19	-9.22/-8.04
Θ(157.5°)	-8.27/-13.98	-13.24/-11.13	-11.79/-13.31	-15.46/-13.60	-12.08/-12.06	-13.15/-8.97	-6.87/-6.76	-8.75/-10.66	-10.04/-8.48	-7.17/-5.58	-5.14/-6.34	-10.22/-13.68	-12.54/-12.98	-9.44/-6.91	-8.24/-12.96	-15.06/-14.88	-15.23/-15.78	-15.45/-9.91	-8.55/-9.79	-12.83/-12.27	-12.87/-14.42	-8.56/-5.84	-6.50/-10.02	-10.20/-6.97
Θ(165°)	-9.90/-13.13	-15.41/-16.28	-12.04/-10.18	-9.43/-9.04	-8.94/-9.84	-10.97/-9.21	-11.09/-13.67	-12.61/-12.34	-11.74/-11.40	-10.31/-9.92	-10.61/-10.75	-10.11/-9.59	-10.93/-13.02	-12.48/-9.61	-9.06/-10.18	-11.48/-10.69	-8.43/-8.81	-10.43/-11.42	-11.08/-9.63	-9.58/-10.98	-11.42/-10.75	-10.15/-10.12	-10.62/-12.07	-11.74/-10.61

E1(XY plane) – $\Theta(90)\Phi(0-360)$
E2(XZ plane) – $\Theta(0-180)\Phi(0)$ and $\Theta(0-180)\Phi(180)$
E3(YZ plane) – $\Theta(0-180)\Phi(90)$ and $\Theta(0-180)\Phi(270)$

