

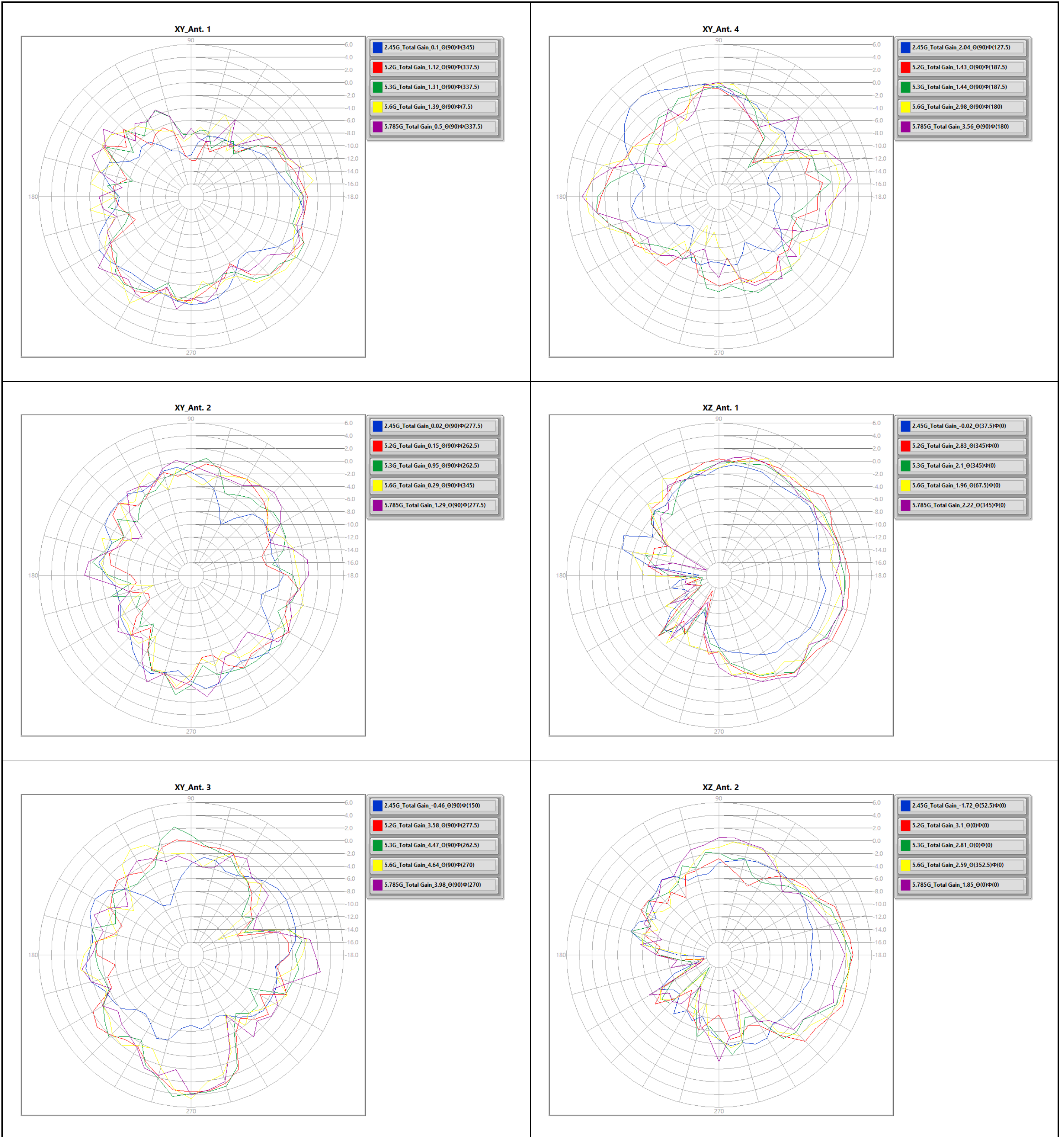


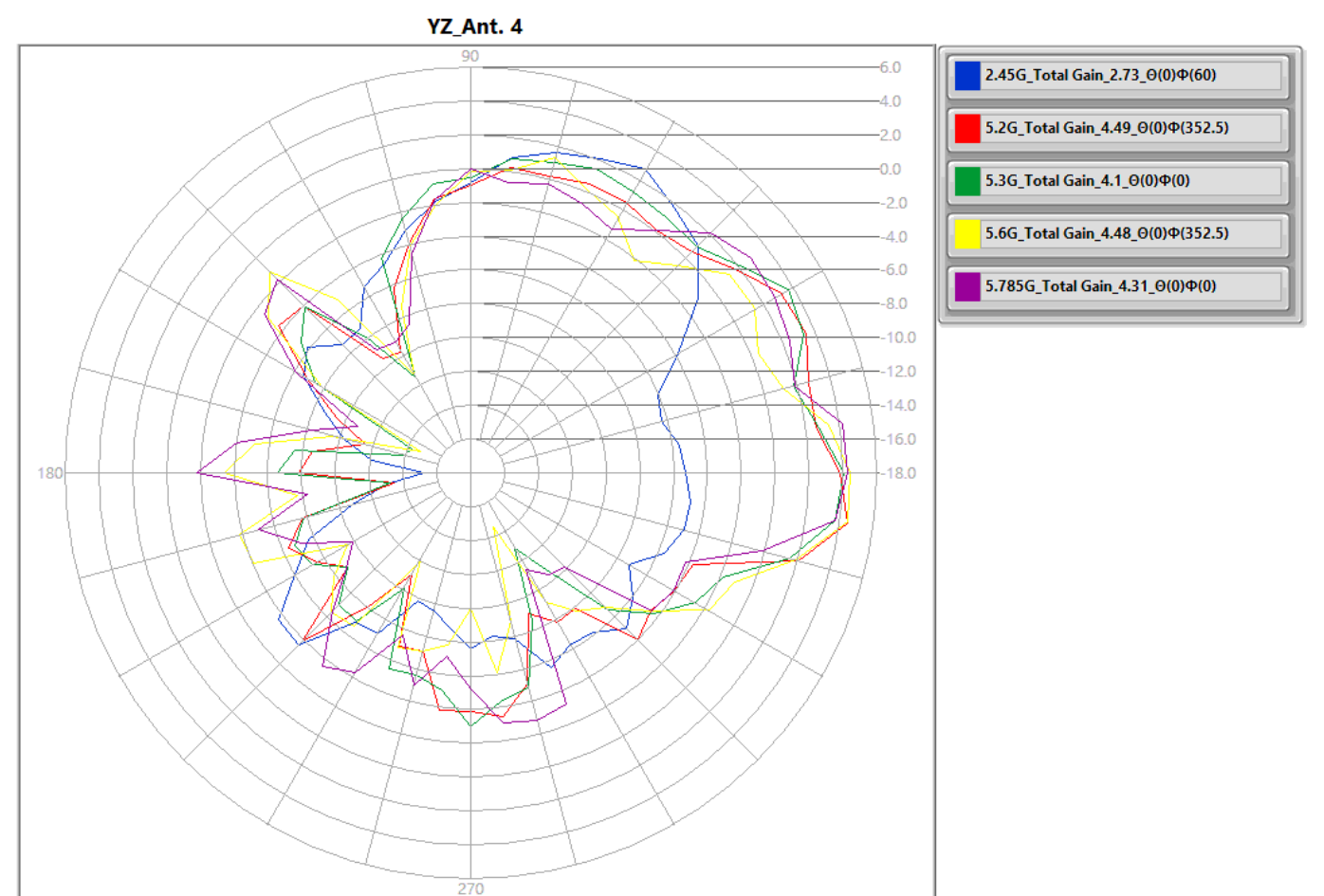
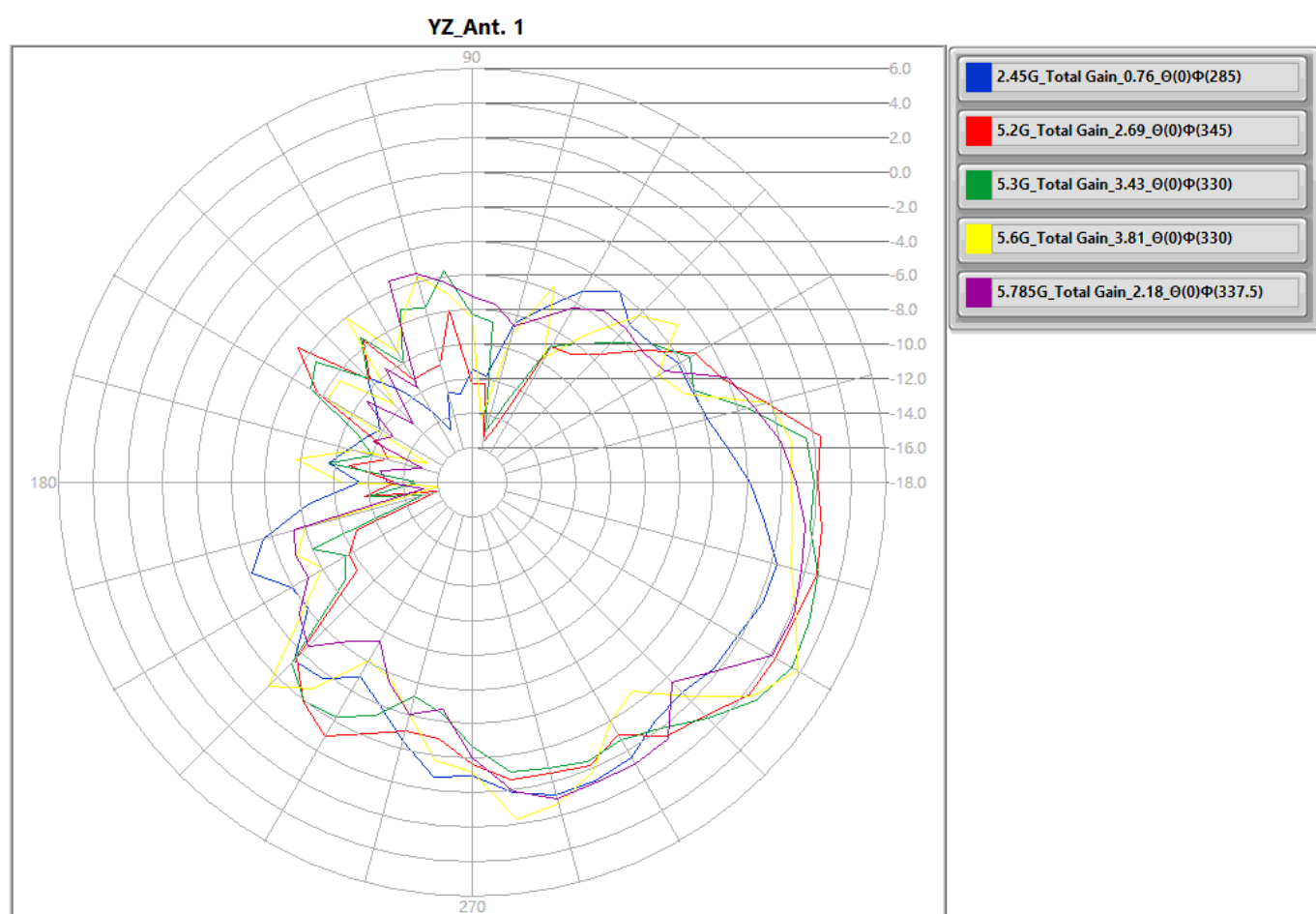
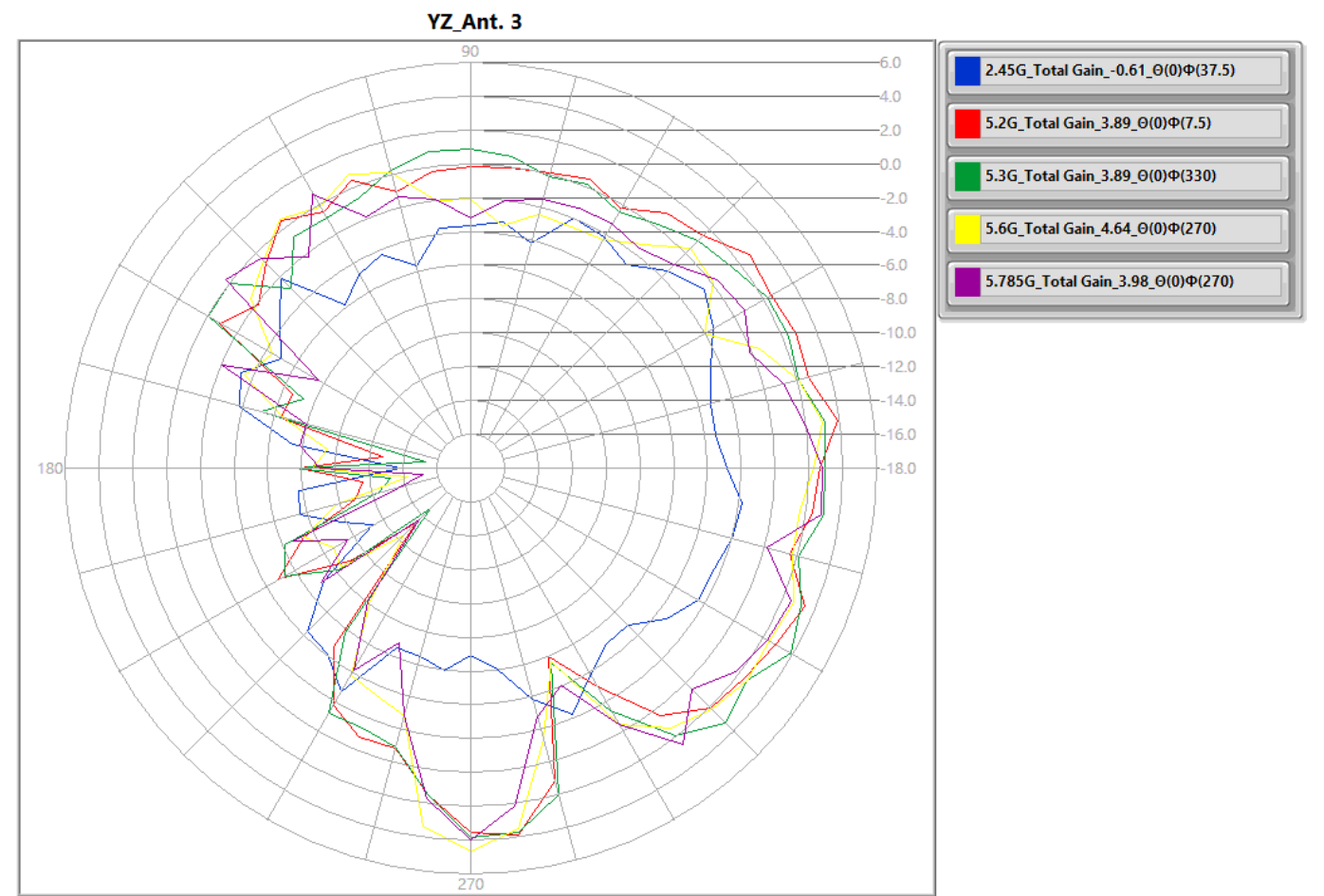
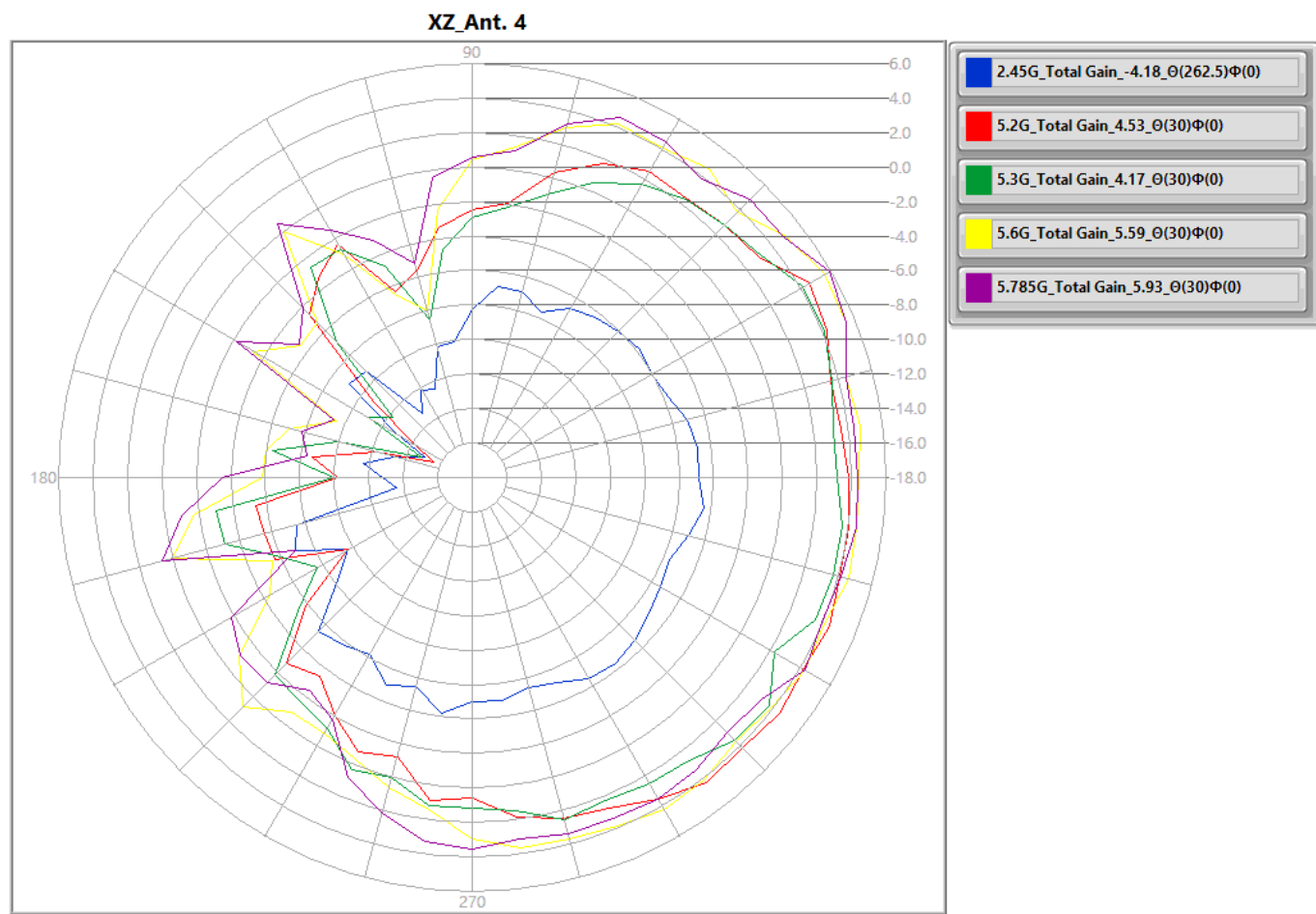
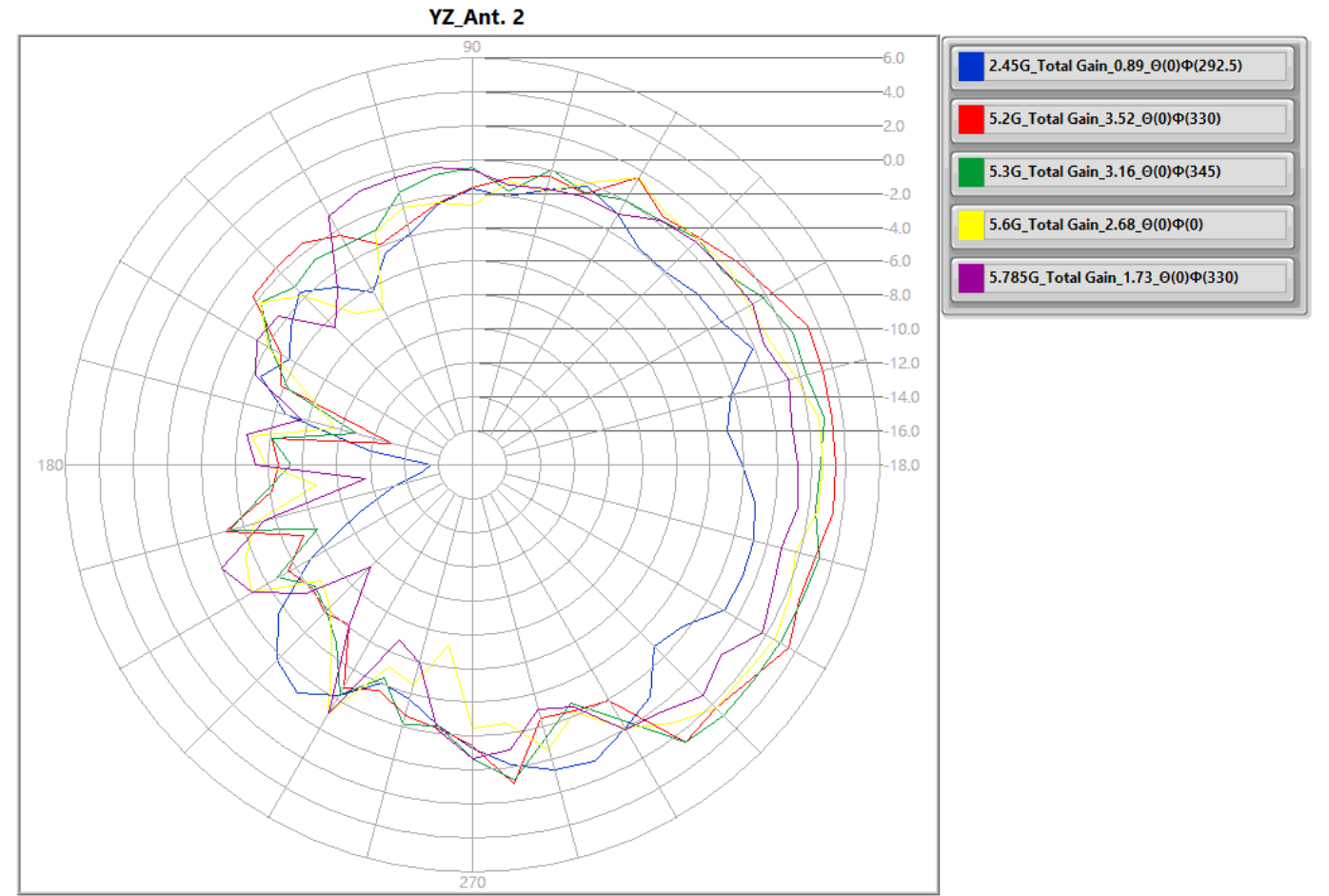
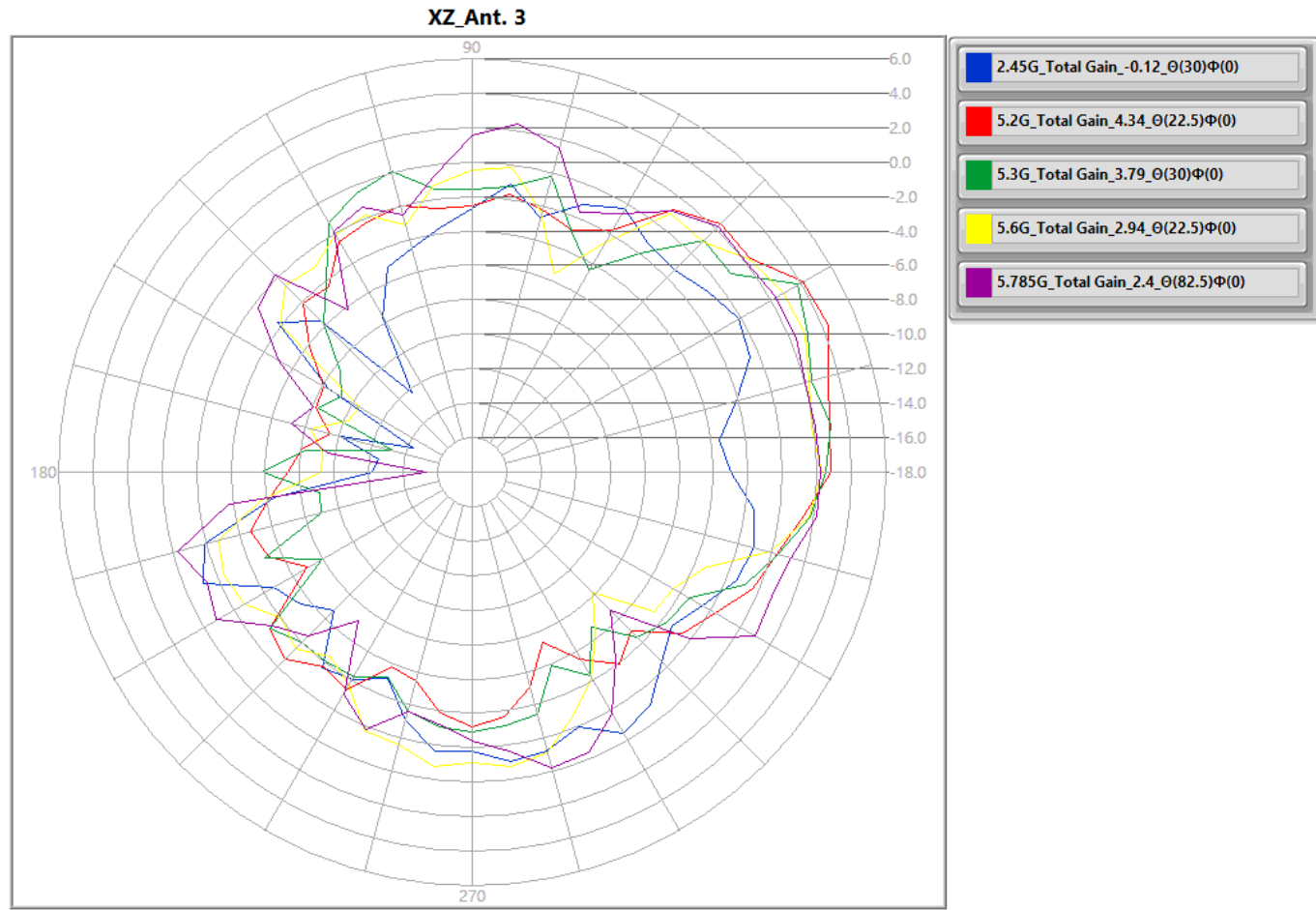
Antenna Pattern of 2.4GHz&5GHz

Appendix C

Θ(180°)	-10.22/-9.62	-9.15/-8.99	-8.92/-8.32	-7.63/-7.54	-7.54/-7.37	-7.41/-7.41	-7.84/-7.71	-7.18/-6.36	-5.97/-5.65	-5.44/-5.22	-5.23/-5.34	-5.27/-5.16	-5.17/-5.31	-5.72/-6.16	-6.17/-6.08	-6.26/-7.01	-8.57/-11.46	-13.93/-13.39	-11.56/-9.76	-8.80/-8.66	-8.61/-9.17	-9.87/-10.01	-9.37/-9.02	-9.56/-9.62
Freq(Hz)	5.3GPol.	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°)	3.17/3.14	3.20/3.11	3.09/3.11	2.96/3.02	3.31/3.60	3.77/3.93	4.10/4.12	4.23/4.24	4.33/4.32	4.32/4.29	4.02/3.87	3.97/4.08	3.75/3.24	3.14/3.34	3.13/2.78	2.67/2.78	2.93/3.16	3.27/3.27	3.33/3.40	3.48/3.60	3.77/3.71	3.53/3.48	3.59/3.63	3.40/3.16
Θ(7.5°)	3.15/2.89	2.86/2.38	1.99/1.90	2.11/2.24	2.42/2.40	2.40/2.49	2.76/2.83	2.79/2.90	3.07/3.08	3.16/3.12	3.04/2.94	3.12/3.64	3.64/3.19	2.85/3.08	3.26/2.94	2.56/2.64	3.22/3.81	3.96/3.89	3.77/3.75	3.79/4.06	4.42/4.41	4.21/4.06	3.98/3.95	3.72/3.36
Θ(15°)	3.61/3.08	2.22/1.48	1.06/0.94	0.85/0.83	1.08/1.36	1.59/1.83	1.77/1.26	0.98/1.01	1.25/1.50	1.86/2.16	2.44/2.70	2.98/3.39	3.68/3.69	3.33/2.88	2.46/1.93	1.15/0.56	0.48/0.76	1.14/1.39	1.54/1.55	1.91/2.47	2.88/3.02	3.07/3.16	3.46/3.81	3.88/3.80
Θ(22.5°)	4.14/3.43	2.42/1.62	0.97/0.77	0.77/0.98	1.65/2.47	3.14/3.59	3.35/2.76	2.24/2.30	2.63/3.01	3.07/2.95	2.84/2.96	3.19/3.39	3.59/3.50	3.00/2.29	1.65/0.80	-0.20/-1.35	-2.65/-3.88	-3.86/-2.78	-1.86/-1.23	-0.83/-0.74	-0.58/0.06	0.99/2.39	3.77/4.63	4.87/4.57
Θ(30°)	4.17/3.02	2.01/1.48	1.48/1.62	1.65/1.16	1.29/2.11	3.35/3.97	3.68/3.17	2.69/2.77	3.07/3.50	3.42/2.92	2.55/2.49	2.45/2.28	2.24/2.25	2.09/1.31	0.24/-0.48	-0.90/-1.64	-3.20/-4.71	-3.88/-2.96	-2.65/-2.08	-1.85/-2.35	-2.73/-1.98	-1.16/0.13	2.33/3.95	4.76/4.81
Θ(37.5°)	3.13/2.85	2.17/1.32	0.96/1.25	1.41/0.81	0.04/0.12	1.54/2.26	2.08/1.61	1.80/2.31	2.74/2.97	2.74/2.81	3.18/3.21	3.18/3.49	3.74/3.32	2.65/1.55	0.21/-1.32	-2.68/-3.57	-4.53/-4.77	-4.38/-4.57	-4.30/-3.12	-2.43/-2.32	-1.21/-0.51	-1.36/-1.92	0.19/2.46	3.42/3.43
Θ(45°)	2.70/2.55	1.89/0.88	-0.90/-1.91	-1.19/-1.01	-2.28/-2.79	-0.96/0.57	0.89/0.36	0.54/1.17	1.87/1.93	1.50/1.99	2.84/3.07	3.07/3.31	3.58/3.11	1.95/0.30	-1.06/-2.41	-4.07/-6.09	-7.71/-7.84	-7.92/-9.00	-6.51/-4.21	-4.48/-5.02	-2.18/-0.51	-1.13/-1.16	-0.15/0.52	1.46/2.46
Θ(52.5°)	2.36/2.97	1.71/0.04	-1.62/-3.91	-4.11/-3.97	-3.75/-3.09	-1.63/0.06	1.01/0.57	0.06/0.50	1.00/0.80	0.50/1.39	2.54/2.66	2.43/2.69	2.68/1.61	0.51/0.20	-0.79/-2.56	-4.32/-6.84	-7.36/-7.96	-6.80/-7.82	-11.01/-8.38	-9.15/-7.20	-2.30/-1.14	-2.33/-1.87	-0.71/-0.33	0.71/1.64
Θ(60°)	1.61/2.41	1.10/-0.55	-1.36/-3.25	-4.44/-4.41	-2.95/-0.94	-0.19/0.51	1.21/0.59	0.02/0.24	0.23/0.09	-0.93/-0.71	0.77/1.55	1.58/1.99	2.54/1.86	0.64/0.00	-1.03/-3.91	-7.09/-6.97	-7.18/-14.81	-10.06/-11.05	-12.83/-8.31	-7.48/-5.59	-2.95/-3.59	-3.89/-1.94	-2.10/-2.72	-1.53/-0.15
Θ(67.5°)	0.48/2.25	0.64/-0.51	-0.62/-1.60	-2.49/-4.03	-2.89/-0.04	0.80/0.63	1.50/1.03	0.67/0.22	-0.83/-1.11	-2.31/-2.17	-0.84/0.52	1.42/2.08	2.28/1.61	-0.04/-1.73	-2.06/-4.44	-7.71/-8.07	-7.48/-9.17	-7.77/-8.14	-8.49/-6.24	-6.10/-2.85	-1.35/-3.58	-3.65/-3.80	-4.08/-2.65	-1.07/-1.22
Θ(75°)	-0.98/2.24	0.21/-0.40	-1.03/-2.51	-4.19/-3.42	-2.38/-0.17	0.80/0.34	0.99/0.53	0.06/-0.20	-1.74/-1.67	-2.93/-2.79	-2.12/-0.88	0.52/1.64	2.57/2.43	0.42/-1.38	-2.30/-5.16	-9.12/-10.28	-8.91/-10.04	-8.45/-6.86	-4.83/-3.46	-3.89/-1.89	-0.54/-1.93	-2.10/-3.84	-4.80/-2.97	-2.62/-2.93
Θ(82.5°)	-2.18/1.00	-1.44/-1.40	-2.51/-4.29	-6.51/-3.65	-3.37/-0.86	0.78/0.62	0.71/-0.12	-0.62/-1.27	-2.36/-1.62	-3.09/-3.42	-3.77/-2.84	-1.11/0.76	1.48/1.03	-1.28/-2.69	-3.70/-5.70	-8.23/-8.91	-7.51/-8.20	-6.92/-6.57	-4.35/-2.46	-1.41/-0.35	-1.17/-1.39	-1.13/-3.84	-4.35/-4.51	-5.97/-4.77
Θ(90°)	-2.91/-0.15	-2.15/-1.98	-3.46/-6.14	-11.58/-6.06	-5.34/-3.30	-1.62/-0.98	-0.55/-1.01	-1.45/-1.30	-2.64/-2.35	-3.64/-3.95	-4.53/-5.20	-3.40/-0.79	1.19/1.44	-0.45/-2.57	-3.42/-5.45	-6.54/-7.26	-6.71/-7.68	-6.89/-3.46	-3.01/-3.83	-2.71/-1.66	-1.99/-2.12	-1.75/-5.31	-4.69/-3.73	-6.33/-4.57
Θ(97.5°)	-4.66/-2.85	-4.84/-3.10	-4.64/-10.62	-15.79/-9.96	-6.69/-4.58	-3.08/-1.31	-0.73/-1.68	-2.47/-2.38	-3.43/-2.78	-4.11/-4.93	-6.01/-6.53	-2.92/-0.10	1.17/1.30	-0.69/-2.35	-3.32/-4.76	-7.30/-9.12	-7.68/-4.79	-6.81/-5.26	-5.04/-6.19	-3.50/-3.80	-7.55/-2.92	-2.12/-4.87	-8.21/-6.80	-4.80/-3.27
Θ(105°)	-8.53/-11.00	-11.81/-8.06	-6.59/-9.34	-12.42/-12.45	-6.73/-5.05	-5.17/-4.01	-2.36/-2.10	-3.83/-3.20	-2.58/-2.71	-4.31/-5.35	-6.37/-7.95	-6.21/-2.50	0.02/0.91	0.56/-2.36	-4.25/-3.69	-4.98/-6.87	-9.28/-6.86	-5.01/-4.04	-5.63/-10.17	-6.55/-5.14	-13.11/-6.97	-4.77/-5.03	-13.55/-10.57	-5.32/-4.51
Θ(112.5°)	-4.76/-6.07	-9.27/-12.43	-8.31/-6.40	-8.87/-10.24	-6.29/-5.23	-7.68/-7.55	-4.24/-3.68	-5.75/-5.22	-4.23/-4.20	-5.09/-6.01	-5.63/-6.81	-5.06/-1.61	0.31/1.00	0.63/-2.40	-4.90/-5.97	-5.56/-7.61	-8.04/-7.06	-5.63/-6.79	-5.46/-10.85	-10.59/-10.50	-9.51/-3.79	-5.77/-6.91	-12.00/-13.10	-5.98/-5.58
Θ(120°)	-2.69/-5.20	-8.09/-10.85	-10.17/-6.21	-6.64/-8.25	-6.69/-5.42	-8.28/-10.96	-11.47/-8.33	-6.36/-5.80	-5.07/-3.91	-4.51/-7.40	-5.96/-5.40	-4.78/-2.21	-1.16/-0.59	-0.38/-3.68	-6.28/-6.31	-5.82/-11.66	-9.12/-4.98	-4.45/-9.08	-10.12/-7.29	-5.12/-7.57	-9.62/-6.59	-4.71/-6.31	-12.00/-9.66	-9.30/-6.97
Θ(127.5°)	-2.62/-4.44	-10.27/-13.48	-13.23/-7.67	-6.10/-5.20	-5.01/-5.37	-6.44/-8.12	-7.85/-5.90	-4.75/-5.85	-3.79/-3.63	-5.36/-6.08	-4.08/-3.93	-3.60/-1.99	-1.61/-1.91	-2.32/-2.72	-3.74/-4.15	-6.36/-6.82	-7.95/-7.89	-5.53/-3.25	-6.95/-6.80	-4.45/-6.57	-8.48/-9.57	-9.46/-9.24	-10.65/-7.51	
Θ(135°)	-6.91/-7.90	-14.79/-13.07	-12.12/-8.15	-6.32/-5.65	-2.79/-1.92	-2.29/-3.93	-4.17/-4.13	-4.88/-6.27	-6.98/-5.81	-6.54/-7.57	-5.87/-4.68	-2.87/-1.64	-1.78/-1.37	-1.29/-2.96	-2.85/-3.66	-8.91/-11.20	-10.64/-9.10	-6.32/-3.66	-6.94/-6.40	-6.40/-5.98	-5.15/-6.03	-9.03/-13.28	-10.91/-12.83	-14.80/-10.95
Θ(142.5°)	-12.21/-10.60	-7.98/-6.95	-7.25/-5.83	-4.13/-4.10	-3.98/-3.35	-3.65/-5.00	-5.31/-5.55	-7.03/-9.52	-12.90/-12.54	-8.68/-6.55	-5.56/-4.71	-4.01/-4.21	-4.62/-4.08	-4.30/-5.78	-8.53/-12.47	-7.55/-6.14	-10.06/-11.05	-8.87/-8.23	-8.97/-8.82	-6.13/-6.86	-6.70/-9.05	-10.48/-14.61	-14.77/-14.11	
Θ(150°)	-11.04/-9.89	-9.95/-9.94	-9.97/-11.00	-14.30/-10.12	-7.81/-7.18	-6.72/-7.13	-7.33/-8.14	-9.43/-10.15	-11.74/-11.48	-11.74/-12.47	-9.84/-7.51	-6.20/-6.08	-7.69/-9.34	-8.08/-6.85	-6.39/-6.86	-7.87/-6.75	-6.92/-8.11	-7.43/-7.33	-7.21/-6.86	-5.67/-5.75	-6.16/-6.99	-9.64/-10.17	-12.11/-13.01	-12.58/-15.22
Θ(157.5°)	-14.82/-13.68	-11.15/-9.31	-10.13/-12.85	-15.88/-11.89	-9.80/-10.41	-11.29/-11.91	-14.24/-15.76	-13.85/-10.38	-8.59/-7.74	-7.12/-6.43	-5.40/-4.53	-4.70/-5.42	-6.02/-6.01	-6.39/-8.38	-8.70/-7.56	-6.20/-5.54	-4.94/-4.31	-4.20/-5.60	-6.72/-6.35	-6.49/-7.53	-9.24/-10.96	-10.80/-10.89	-11.81/-15.73	-15.30/-14.56
Θ(165°)	-9.96/-9.24	-10.43/-10.93	-10.45/-10.60	-12.20/-13.78	-13.90/-14.47	-14.70/-15.18	-13.93/-12.46	-11.40/-9.33	-7.73/-6.54	-5.38/-4.25	-3.41/-3.14	-3.19/-3.06	-3.16/-3.89	-5.04/-5.68	-4.82/-4.34	-3.96/-3.71	-3.73/-3.85	-4.70/-5.77	-7.77/-14.52	-13.26/-15.61	-15.98/-14.37	-13.09/-12.85	-11.95/-11.05	-9.80/-10.22
Θ(172.5°)	-6.36/-6.10	-7.42/-9.35	-10.25/-10.05	-10.43/-9.79	-9.11/-8.64	-8.21/-7.89	-7.52/-7.27	-6.75/-6.14	-5.64/-5.54	-4.16/-4.15	-3.95/-3.23	-3.00/-3.34	-2.93/-3.49	-3.49/-4.54	-5.32/-6.37	-8.14/-10.44	-13.22/-15.18	-15.53/-14.18	-13.22/-10.77	-9.39/-7.91	-8.78/-8.17	-6.45/-5.55	-5.69/-6.71	
Θ(180°)	-9.96/-10.41	-9.97/-8.80	-7.53/-7.34	-7.98/-7.61	-7.62/-7.19	-6.99/-6.98	-6.59/-6.20	-5.69/-5.29	-4.85/-4.68	-4.42/-4.00	-3.54/-3.34	-3.50/-3.73	-4.00/-4.28	-4.53/-4.90	-5.11/-6.71	-6.66/-7.29	-8.25/-9.74	-11.82/-14.25	-13.92/-11.56	-10.19/-9.25	-8.89/-9.23	-9.80/-9.21	-8.50/-9.21	-9.37/-7.93
Freq(Hz)	5.6GPol.	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°)	4.45/4.29	4.48/4.51	4.26/4.35	4.52/4.72	4.79/4.80	4.75/4.61	4.42/4.43	4.61/4.83	4.85/4.84	4.89/4.92	4.90/4.92	4.81/4.78	4.77/4.68	4.53/4.60	4.70/4.55	4.28/4.26	4.34/4.39	4.29/4.27	4.08/4.21	4.38/4.51	4.45/4.41	4.39/4.25	4.30/4.35	4.30/4.40
Θ(7.5°)	4.74/4.63	4.48/4.32	4.11/1.98	4.04/4.14	3.99/3.81	3.51/3.38	3.39/3.48	3.61/3.92	4.04/4.09	4.24/4.41	4.52/4.64	4.82/4.64	4.46/4.67	4.74/4.49	4.38/4.49	4.41/4.07	3.91/4.27	4.65/4.66	4.48/4.44	4.68/4.88	4.90/4.94	5.03/5.07	5.08/5.04	4.88/4.85
Θ(15°)	4.43/4.43	4.23/3.85	3.38/3.07	2.89/2.59	2.14/1.64	1.29/1.11	1.18/1.45	1.89/2.25	2.70/3.19	3.53/3.80	4.17/4.50	4.66/4.73	4.60/4.46	4.21/3.87	3.43/3.24	2.96/2.28	1.76/1.83	2.05/2.00	1.91/2.11	2.24/2.59	2.98/3.24	3.65/4.14	4.54/4.94	5.01/4.79
Θ(22.5°)	5.52/4.76	3.75/2.82	1.86/1.29	1.12/1.11	1.13/1.23	1.14/0.85	0.45/0.73	1.43/2.20	2.66/2.76	2.55/2.43	2.58/2.93	3.36/3.74	4.09/4.11	3.67/2.92	2.18/1.39	0.37/-0.84	-1.51/-1.69	-1.46/-1.41	-1.10/-0.61	0.14/1.04	1.72/2.48	3.39/4.40	5.22/5.77	5.96/5.92
Θ(30°)	5.59/5.04	4.25/3.29	2.02/0.82	0.48/0.55	1.02/1.68	2.06/1.87	1.42/1.51	2.12/2.55	2.52/2.09	1.64/1.81	2.53/3.40	4.01/4.20	4.33/4.24	3.67/2.62	1.52/0.43	-1.00/-1.97	-2.62/-3.78	-4.08/-3.02	-1.74/-1.64	-1.65/-0.90	0.52/1.74	2.44/3.06	3.88/5.00	

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 of 6GHz

Appendix D

Total Gain Data

Freq(Hz)	6.175GPol.	TotalAnt. 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°)	-5.99/4.04	-4.23/-4.04	-4.77/-4.40	-4.36/-3.44	-4.62/-2.50	-5.63/-5.49	-5.25/-5.58	-5.50/-5.32	-5.64/-6.20	-6.36/-6.16	-6.34/-6.50	-6.70/-7.99	-7.10/-6.97	-7.78/-8.15	-7.97/-7.67	-7.49/-7.34	-7.79/-7.98	-7.56/-7.47	-7.05/-6.63	-6.62/-6.22	-5.88/-5.83	-5.64/-5.93	-6.00/-4.80	-6.47/-5.51
Θ(7.5°)	-7.51/-8.00	-7.56/-7.66	-7.74/-7.27	-7.34/-8.12	-7.71/-6.97	-6.51/-6.27	-6.27/-6.58	-5.57/-5.07	-4.75/-4.78	-4.58/-4.37	-3.83/-3.56	-3.52/-3.46	-3.18/-2.92	-3.16/-3.43	-3.47/-3.38	-3.55/-4.00	-4.54/-5.11	-5.34/-5.75	-6.05/-6.22	-6.58/-6.98	-6.22/-6.53	-6.77/-6.35	-7.33/-7.95	-6.93/-6.77
Θ(15°)	-4.89/-4.83	-5.12/-4.18	-3.60/-4.61	-4.89/-5.19	-6.36/-7.42	-7.86/-7.14	-5.62/-4.19	-3.05/-2.27	-1.99/-1.93	-2.16/-2.97	-3.88/-4.76	-4.95/-4.16	-3.99/-3.74	-3.05/-3.68	-5.07/-5.72	-5.07/-4.33	-4.16/-4.14	-4.26/-5.01	-6.21/-6.69	-7.11/-7.50	-7.61/-7.14	-7.13/-7.63	-6.47/-5.42	-4.87/-4.62
Θ(22.5°)	-6.42/-6.84	-5.35/-4.25	-3.63/-3.04	-3.14/-3.99	-5.66/-7.24	-8.04/-5.96	-3.93/-2.26	-1.57/-2.26	-3.67/-5.12	-5.73/-4.86	-4.03/-3.69	-2.83/-2.01	-1.24/-1.25	-1.79/-2.24	-3.31/-4.96	-5.28/-3.67	-2.00/-1.45	-1.89/-2.45	-3.04/-3.11	-2.96/-2.73	-3.03/-3.83	-4.63/-5.65	-6.70/-6.83	-6.04/-5.76
Θ(30°)	-5.89/-5.71	-6.86/-7.43	-5.22/-3.92	-3.67/-3.67	-5.12/-5.77	-5.06/-3.61	-1.94/-1.99	-2.43/-3.24	-3.98/-4.06	-4.13/-3.43	-2.52/-2.31	-2.29/-1.82	-1.82/-3.55	-4.60/-3.23	-2.14/-2.11	-3.00/-2.84	-2.09/-2.50	-2.35/-2.00	-1.95/-1.79	-1.87/-2.11	-2.19/-3.01	-4.68/-5.74	-5.76/-5.75	
Θ(37.5°)	-8.22/-8.49	-8.49/-6.20	-6.11/-5.17	-3.85/-4.09	-4.24/-4.96	-5.61/-4.63	-3.32/-3.58	-3.73/-2.50	-1.37/-1.81	-2.88/-2.52	-1.80/-4.04	-4.10/-2.37	-3.50/-3.43	-3.15/-5.17	-3.77/-1.62	-1.43/-1.77	-0.85/-0.37	-1.38/-1.70	-1.20/-1.40	-2.20/-1.71	-1.11/-2.43	-3.77/-4.99	-5.24/-5.31	-7.62/-8.45
Θ(45°)	-6.98/-7.05	-8.97/-7.48	-4.85/-4.53	-4.22/-4.08	-5.37/-5.03	-5.75/-5.09	-4.06/-4.97	-4.06/-2.02	-1.68/-1.88	-0.61/-0.05	0.44/-0.98	-1.41/-1.97	-2.63/-1.50	-2.03/-3.47	-3.66/-1.53	0.46/-0.41	-0.42/-1.08	1.120/-9	1.440/-60	-0.770/-13	-0.30/-2.07	-2.41/-2.26	-3.32/-4.12	-4.46/-5.79
Θ(52.5°)	-5.70/-5.73	-7.64/-8.44	-4.65/-3.62	-4.57/-4.69	-6.24/-5.54	-5.68/-5.53	-6.21/-5.54	-2.72/-1.22	-1.29/-1.35	-0.66/-1.46	-1.74/-2.59	-2.90/-4.13	-5.83/-7.55	-6.49/-3.83	-1.80/-0.15	1.290/-63	-0.100/-03	-2.22/-2.26	-0.99/-1.61	-0.85/-0.43	-0.38/-0.94	-1.89/-3.45	-3.66/-3.70	-4.33/-4.46
Θ(60°)	-6.38/-5.66	-7.35/-6.86	-5.62/-4.44	-4.80/-4.54	-7.45/-8.11	-4.58/-5.11	-6.10/-5.54	-2.76/-2.56	-2.72/-1.93	-2.98/-3.28	-2.11/-3.07	-5.14/-4.98	-5.49/-6.39	-5.17/-4.71	-1.36/-0.69	-1.78/-2.58	-2.37/-0.14	-0.90/-1.10	-0.57/-0.26	0.180/-25	0.550/-9	-0.60/-1.68	-3.42/-3.51	-5.60/-5.54
Θ(67.5°)	-6.37/-6.52	-5.38/-5.59	-5.91/-4.49	-6.24/-4.94	-6.64/-5.65	-4.03/-5.94	-4.31/-2.73	-2.46/-4.02	-5.13/-3.19	-4.74/-2.42	-0.48/-2.43	-4.35/-3.42	-4.06/-4.21	-1.46/-1.77	-0.63/-1.20	-2.29/-4.17	-2.980/-36	-0.510/-77	-0.35/-0.27	0.500/-11	0.771/-18	-0.79/-2.26	-3.33/-2.77	-4.74/-4.12
Θ(75°)	-4.28/-6.87	-5.45/-4.35	-5.98/-6.51	-6.10/-5.00	-6.41/-6.19	-4.19/-5.59	-4.20/-3.38	-2.93/-3.63	-5.49/-4.41	-3.90/-2.20	-0.70/-2.09	-2.68/-1.65	-2.69/-7.41	-1.80/-0.32	-0.730/-60	-2.97/-5.47	-1.72/-0.03	0.392/-00	1.261/-74	0.970/-23	-0.340/-76	-0.09/-2.25	-2.11/-2.52	-4.31/-2.85
Θ(82.5°)	-1.64/-6.39	-5.69/-3.77	-5.77/-7.90	-6.65/-6.48	-6.48/-5.65	-5.21/-5.19	-2.38/-2.25	-5.31/-5.43	-4.48/-5.24	-2.91/-3.13	-1.82/-2.79	-2.12/-1.71	-2.31/-9.34	-0.900/-54	-2.13/-0.21	-1.55/-4.51	0.200/-20	1.063/-17	2.083/-05	1.25/-0.24	-0.700/-25	-0.62/-3.53	-2.77/-4.01	-4.50/-1.58
Θ(90°)	-1.57/-6.85	-5.15/-3.38	-6.75/-7.40	-8.82/-8.26	-8.81/-6.01	-4.06/-4.80	-3.13/-1.76	-5.56/-6.19	-4.77/-4.99	-2.21/-5.24	-3.61/-3.44	-3.96/-2.54	-1.61/-7.35	-4.71/-1.28	-2.30/-2.66	-0.64/-3.81	0.740/-53	-0.221/-36	1.721/-96	0.28/-2.57	-1.520/-27	0.46/-3.86	-4.67/-3.03	-5.77/-2.47
Θ(97.5°)	-1.61/-6.17	-3.55/-2.96	-7.15/-7.40	-10.72/-8.81	-9.37/-8.21	-4.84/-3.07	-3.92/-2.18	-5.89/-5.59	-5.01/-4.80	-3.10/-7.72	-4.84/-6.96	-6.28/-4.66	-3.80/-7.73	-5.29/-3.40	-5.64/-7.52	-1.80/-0.95	0.22/-0.78	-3.28/-1.29	0.36/-0.12	-2.01/-0.36	-1.97/-0.15	-0.47/-4.14	-4.90/-6.04	-5.46/-2.31
Θ(105°)	-3.31/-6.37	-4.74/-3.71	-7.26/-7.05	-8.80/-7.45	-5.99/-9.18	-10.52/-8.12	-7.83/-5.41	-8.43/-6.08	-7.53/-5.87	-5.92/-9.55	-5.62/-7.48	-5.90/-8.46	-6.82/-8.20	-8.97/-7.24	-7.23/-8.94	-6.82/-3.47	-2.77/-4.37	-7.77/-4.47	-0.64/-0.82	-2.83/-5.73	-2.82/-0.27	-0.88/-4.45	-6.83/-6.18	-5.48/-2.55
Θ(112.5°)	-5.41/-6.27	-5.15/-4.06	-6.80/-6.47	-7.48/-8.81	-7.63/-8.60	-11.90/-9.03	-11.49/-7.45	-7.84/-7.93	-9.47/-10.82	-9.05/-6.81	-6.55/-6.41	-2.49/-7.80	-10.38/-10.06	-6.97/-7.06	-10.00/-7.82	-5.04/-4.22	-2.37/-3.58	-4.75/-3.15	-1.09/-0.98	-6.22/-6.18	-3.52/-1.09	-2.81/-3.56	-7.45/-3.87	-6.07/-3.27
Θ(120°)	-6.79/-4.48	-5.86/-3.62	-5.20/-5.15	-5.67/-6.95	-9.43/-9.75	-7.90/-10.73	-11.30/-7.58	-10.43/-15.04	-15.58/-8.57	-8.51/-5.96	-4.78/-4.45	-3.61/-9.78	-11.32/-9.77	-5.65/-8.40	-3.76/-4.15	-6.96/-3.42	-4.70/-7.37	-8.12/-7.32	-5.03/-3.73	-7.55/-7.62	-3.04/-0.54	-3.93/-7.40	-6.49/-4.40	-4.08/-4.17
Θ(127.5°)	-6.34/-7.48	-5.66/-6.24	-5.43/-6.24	-5.60/-6.56	-9.85/-11.78	-12.28/-14.04	-11.65/-15.20	-13.27/-12.57	-7.36/-6.34	-6.84/-6.83	-7.34/-13.91	-14.90/-6.08	-7.79/-10.14	-5.24/-5.39	-1.56/-4.51	-6.82/-5.79	-9.57/-8.70	-6.28/-6.56	-7.82/-6.00	-7.02/-11.34	-4.25/-2.61	-2.68/-2.61	-4.05/-6.30	-5.38/-5.84
Θ(135°)	-6.15/-5.35	-6.57/-7.18	-7.52/-6.57	-7.49/-6.89	-7.69/-9.28	-10.15/-13.22	-8.35/-8.69	-9.04/-9.56	-9.39/-7.16	-7.25/-8.31	-11.01/-10.52	-8.40/-7.62	-7.63/-11.07	-9.66/-14.29	-10.30/-10.02	-8.88/-5.95	-6.75/-7.13	-9.02/-15.35	-11.38/-9.63	-7.62/-6.35	-7.67/-5.45	-3.01/-2.53	-3.70/-4.39	-3.87/-4.87
Θ(142.5°)	-4.92/-4.60	-5.36/-6.52	-5.68/-5.86	-8.07/-8.75	-9.35/-7.10	-5.62/-8.27	-9.63/-8.38	-10.41/-8.11	-7.23/-9.54	-13.19/-15.64	-15.28/-9.61	-7.25/-9.51	-6.79/-8.99	-11.91/-12.67	-12.06/-9.51	-5.40/-4.32	-6.71/-12.37	-10.35/-6.28	-4.84/-6.12	-3.26/-2.79	-4.26/-4.85	-3.67/-3.43	-4.97/-6.18	-5.60/-4.78
Θ(150°)	-8.90/-7.35	-6.66/-6.29	-6.56/-6.92	-8.50/-7.82	-6.79/-7.60	-9.95/-15.06	-7.10/-8.48	-7.81/-9.05	-10.34/-10.74	-11.35/-12.72	-13.11/-14.15	-15.10/-11.08	-9.63/-11.22	-12.34/-14.27	-14.86/-8.30	-6.55/-4.51	-8.85/-11.23	-10.52/-5.30	-4.11/-6.06	-4.55/-2.71	-3.20/-3.34	-6.30/-11.61	-11.57/-11.50	-5.60/-11.10
Θ(157.5°)	-6.79/-7.25	-8.72/-10.67	-10.68/-9.46	-11.71/-14.89	-15.61/-14.57	-11.14/-9.92	-10.16/-9.07	-7.83/-8.11	-9.51/-11.11	-14.55/-13.86	-11.82/-12.05	-12.04/-12.79	-13.31/-14.30	-14.10/-12.82	-14.11/-15.75	-15.38/-13.77	-14.73/-13.55	-8.68/-5.90	-5.66/-7.37	-8.59/-7.67	-8.14/-8.03	-8.90/-10.92	-9.28/-8.45	-10.34/-9.89
Θ(165°)	-9.72/-9.37	-10.73/-12.35	-11.95/-12.66	-12.79/-11.07	-9.33/-8.73	-9.02/-10.53	-12.68/-14.79	-14.07/-13.29	-13.48/-12.67	-9.93/-8.29	-8.07/-8.13	-8.09/-8.12	-8.52/-11.14	-14.48/-13.80	-13.88/-14.26	-15.40/-15.33	-15.04/-11.33	-8.89/-7.55	-6.67/-5.92	-5.97/-6.33	-6.84/-7.34	-7.32/-7.31	-7.36/-7.60	-8.34/-9.33
Θ(172.5°)	-4.55/-5.28	-5.92/-5.90	-5.85/-6.48	-6.69/-6.47	-8.36/-10.69	-13.76/-15.33	-15.21/-16.46	-14.84/-14.72	-13.60/-14.00	-13.65/-14.56	-15.43/-15.35	-15.21/-13.96	-12.44/-12.27	-11.68/-10.78	-10.54/-10.68	-8.03/-8.18	-6.77/-6.32	-6.22/-6.38	-6.21/-6.62	-5.51/-5.68	-5.34/-5.32	-5.46/-4.87		
Θ(180°)	-8.99/-9.54	-9.01/-9.54	-10.15/-10.57	-10.90/-12.37	-14.74/-15.32	-15.22/-14.70	-14.86/-14.57	-13.52/-11.98	-10.79/-10.17	-10.17/-9.81	-9.21/-8.98	-8.01/-7.48	-7.20/-7.28	-7.57/-7.91	-8.61/-9.18	-8.93/-8.41	-8.28/-8.33	-8.22/-7.97	-7.89/-7.90	-8.78/-9.11	-9.58/-9.47	-9.55/-9.73	-8.96/-8.76	-8.77/-8.94
Freq(Hz)	6.475GPol.	TotalAnt. 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°)	-7.75/-6.24	-7.71/-7.86	-6.70/-6.95	-7.96/-7.51	-7.46/-7.54	-7.43/-7.25	-7.25/-6.96	-6.66/-6.67	-6.00/-5.65	-5.79/-5.76	-5.34/-5.34	-5.58/-5.80	-5.59/-5.56	-5.71/-5.94	-6.10/-5.73	-5.31/-5.19	-5.38/-5.45	-5.55/-5.66	-5.74/-5.87	-6.46/-6.38	-6.35/-6.68	-6.60/-7.32	-7.55/-5.85	-6.40/-7.18
Θ(7.5°)	-4.30/-4.25	-4.33/-4.45	-4.94/-4.66	-3.91/-4.16	-5.21/-6.37	-6.72/-6.86	-7.64/-7.50	-7.17/-7.00	-5.93/-5.19	-5.45/-5.24	-4.85/-4.55	-5.87/-5.28	-5.93/-6.43	-6.20/-5.62	-6.21/-6.45	-6.74/-6.56	-5.93/-5.67	-5.61/-4.99	-4.90/-4.67	-4.63/-4.56	-4.63/-4.53	-4.45/-4.24	-4.41/-4.14	
Θ(15°)	-5.52/-6.52	-4.67/-4.13	-4.15/-3.01	-2.81/-4.25	-5.64/-6.43	-7.82/-8.02	-7.11/-5.49	-3.56/-2.54	-1.77/-1.19	-0.71/-0.86	-5.26/-1.87	-6.26/-3.25	-3.64/-3.94	-4.39/-4.26	-4.55/-4.42	-5.13/-6.98	-7.87/-9.25	-10.38/-9.15	-8.62/-8.28	-7.03/-6.87	-7.41/-6.30	-5.28/-5.59	-6.26/-6.83	
Θ(22.5°)	-4.48/-3.60	-3.17/-4.10	-4.05/-4.08	-4.31/-4.73	-4.49/-4.00	-4.78/-4.44	-3.85/-2.91	-2.06/-1.70	-2.07/-3.01	-4.27/-4.90	-4.44/-3.89	-3.33/-3.11	-3.03/-3.31	-4.54/-6.61	-7.59/-7.05	-4.83/-3.00	-2.08/-2.28	-2.99/-4.20	-4.59/-4.01	-3.60/-3.28	-3.35/-4.37	-5.23/-5.61	-5.31/-4.43	-4.43/-4.36
Θ(30°)	-8.28/-10.01	-7.38/-6.87	-4.29/-3.99	-4.29/-4.28	-2.27/-4.40	-5.83/-5.84	-5.54/-4.59	-3.48/-2.99	-2.80/-2.64	-3.23/-3.58	-2.56/-1.64	-1.60/-1.45	-1.91/-3.36	-4.94/-4.28	-3.49/-3.75	-3.86/-3.68	-4.13/-4.45	-4.39/-4.65	-5.22/-5.01	-3.72/-4.21	-2.68/-4.34	-5.01/-5.26	-6.32/-6.83	-7.12/-7.06
Θ(37.5°)	-5.56/-6.12	-7.14/-6.08	-5.62/-4.25	-4.69/-4.42	-5.15/-7.48	-8.31/-7.98	-6.27/-2.43	-5.64/-5.32	-3.99/-3.74	-2.47/-2.03	-2.95/-3.93	-4.69/-7.77	-8.79/-4.50	-3.30/-5.93	-4.93/-3.50	-3.51/-4.08	-2.95/-0.70	-0.55/-1.83	-1.68/-1.73	-3.34/-5.60	-6.83/-4.29	-6.83/-8.01	-7.27/-5.63	
Θ(45°)	-6.57																							



Antenna Pattern of 6GHz

Appendix D

Θ (15°)	-5.35/6.60	-6.03/-5.70	-9.62/8.85	-8.18/-7.41	-6.62/-5.29	-4.79/-5.47	-7.00/-7.64	-7.04/-5.46	-4.46/-4.55	-5.13/5.82	-6.59/-7.34	-7.09/-6.26	-5.78/-5.71	-6.05/-6.61	-6.32/-5.24	-3.77/-2.60	-2.09/-1.61	-1.48/-2.01	-2.97/-4.66	-5.96/-5.79	-5.08/-4.56	-3.74/-3.34	-3.74/-4.13	-3.45/-3.83
Θ (22.5°)	-4.85/-5.06	-5.56/-6.75	-5.60/-5.20	-5.51/-6.18	-5.53/-4.15	-4.11/-5.42	-8.59/-12.62	-12.28/-8.61	-5.64/-4.32	-4.24/-5.61	-7.62/-8.47	-5.95/-3.48	-2.24/-1.01	-0.93/-1.66	-2.46/-4.27	-6.04/-5.67	-5.36/-4.45	-3.32/-3.29	-4.28/-6.69	-5.98/-4.71	-2.77/-1.28	-0.65/-0.74	-0.93/-1.85	-3.51/-4.62
Θ (30°)	-4.26/-6.67	-5.29/-4.66	-7.22/-8.90	-7.65/-6.62	-6.46/-6.19	-6.78/-8.88	-10.11/-10.09	-10.31/-10.18	-10.10/-10.30	-11.00/-10.65	-7.23/-5.87	-5.25/-5.06	-3.65/-1.60	-1.20/-1.66	-2.21/-2.93	-1.92/-0.64	-0.77/-1.50	-0.60/-0.40	-0.30/-1.78	-1.89/-1.53	-1.58/-1.21	-0.82/-1.07	-1.04/-1.15	-1.32/-3.62
Θ (37.5°)	-4.84/-4.14	-4.03/-6.27	-8.02/-8.43	-7.92/-6.46	-5.70/-5.57	-5.62/-7.58	-11.11/-9.90	-6.49/-7.37	-6.09/-5.83	-9.08/-14.57	-7.85/-7.34	-4.25/-4.02	-1.53/-0.78	-1.13/-1.76	-3.39/-2.67	-0.57/-1.06	2.07/1.90	0.41/-0.35	0.21/0.16	-0.07/-1.27	-2.43/-3.25	-1.27/0.35	0.74/-0.09	-1.03/-2.86
Θ (45°)	-2.91/-4.50	-5.36/-4.35	-4.98/-4.38	-3.50/-3.87	-5.13/-7.13	-7.79/-8.50	-10.84/-11.79	-6.50/-4.84	-5.67/-3.26	-4.34/-8.77	-7.42/-8.10	-5.20/-4.27	-0.68/-0.67	0.97/0.24	-0.48/-0.77	-1.61/-0.30	1.70/0.98	0.56/2.11	1.48/0.86	1.70/-0.29	-2.92/-1.00	-0.30/-0.02	-0.61/-1.59	-3.92/-2.72
Θ (52.5°)	-4.35/-7.34	-12.63/-11.57	-6.94/-2.95	-2.63/-2.98	-2.99/-3.98	-4.77/-2.97	-3.07/-2.95	-2.17/-1.09	-2.92/-1.90	-3.60/-5.75	-5.90/-7.89	-6.54/-7.32	-2.17/-0.90	-2.29/-2.41	0.67/0.70	1.71/0.97	0.38/0.39	-0.46/-1.87	-1.23/-1.68	-1.54/-0.07	-1.77/-0.75	-1.47/-1.79	-1.32/-3.17	
Θ (60°)	-3.56/-4.93	-12.62/-11.19	-8.94/-4.14	-2.22/-1.77	-3.84/-3.66	-2.35/-1.07	-0.38/0.05	0.25/1.64	0.09/-1.48	-2.21/-3.08	-2.48/-6.24	-7.79/-7.23	-3.29/-0.04	-0.90/-4.56	-9.75/-1.02	0.65/-0.30	-0.71/-1.04	-4.18/-3.08	-1.93/-3.31	-2.83/-3.61	-1.02/-0.23	-0.13/-0.48	0.03/-1.61	-0.97/-2.74
Θ (67.5°)	-1.70/-2.27	-8.62/-8.14	-5.02/-2.19	-1.48/-0.63	-2.97/-2.86	-2.02/-0.93	0.51/0.34	0.62/1.44	0.20/-1.59	-0.46/-0.40	0.23/-3.24	-7.28/-5.70	-1.12/-0.72	-0.64/-2.17	0.35/-2.57	-4.91/-0.27	-3.10/-0.78	-0.81/-2.65	-3.20/-4.04	0.31/-0.63	-1.65/-1.53	-1.48/-1.99	-2.19/-3.28	
Θ (75°)	-3.53/-4.07	-9.23/-9.32	-6.71/-2.45	-1.33/-1.02	-2.33/-2.28	-0.75/-3.03	-2.09/-1.40	-0.79/-1.90	-2.32/-2.69	0.96/-0.63	1.06/-0.22	-5.35/-4.97	-10.42/-1.99	0.79/0.73	-3.93/-1.73	-0.78/-2.68	-2.44/-0.54	0.42/0.04	2.99/1.30	-1.34/-5.77	-1.11/-1.53	-2.02/-1.70	-1.97/-3.01	-4.49/-5.60
Θ (82.5°)	-4.94/-5.65	-11.31/-6.33	-6.17/-2.39	-0.64/-0.65	-0.89/-2.44	-3.66/-7.17	-3.74/-5.91	-4.55/-2.64	-4.02/-5.53	-0.19/-1.85	0.53/-0.99	-4.38/-4.56	-8.59/-2.79	-0.96/-0.47	-4.44/-0.01	-1.02/-0.40	2.03/0.26	2.58/4.09	4.51/3.65	1.00/-2.98	-1.62/-1.43	-3.08/-1.89	-3.56/-4.04	-5.97/-5.92
Θ (90°)	-7.41/-7.20	-11.86/-7.09	-6.62/-4.00	-0.92/-1.56	-0.73/-2.87	-6.22/-3.98	-11.22/-0.54	-6.54/-6.57	-2.65/-4.20	-0.83/-2.36	-3.45/-4.35	-7.21/-3.77	-2.20/-3.94	-10.41/-0.45	0.08/-0.02	3.48/0.39	3.21/3.84	3.87/3.01	0.80/-2.12	-1.93/-3.90	-4.14/-1.53	-2.08/-3.92	-4.67/-7.21	
Θ (97.5°)	-7.87/-4.11	-10.96/-8.21	-7.71/-3.53	-0.89/-2.33	-0.82/-3.67	-9.19/-9.54	-7.82/-15.99	-9.18/-5.82	-4.85/-4.66	-3.63/-7.40	-4.30/-5.86	-9.06/-4.81	-4.09/-5.45	-10.23/-2.63	-0.82/-3.32	2.47/-3.29	0.05/1.21	1.98/1.76	-0.14/-3.88	-4.99/-1.74	-4.53/-4.08	-3.93/-6.60		
Θ (105°)	-7.74/-4.65	-14.71/-11.62	-7.75/-5.87	-2.18/-2.28	-1.91/-3.79	-8.99/-15.22	-13.91/-10.06	-6.64/-4.83	-4.58/-4.29	-3.34/-8.12	-6.46/-8.86	-6.45/-11.07	-9.20/-8.73	-7.51/-4.38	-12.50/-8.83	-2.89/-4.56	-1.17/-4.94	-0.18/-1.58	-0.28/-1.48	-3.03/-6.88	-3.89/-2.75	-6.26/-2.45	-2.81/-4.45	-1.83/-5.94
Θ (112.5°)	-6.97/-4.53	-10.15/-12.35	-9.65/-7.91	-5.94/-3.48	-3.37/-5.61	-9.68/-15.27	-8.05/-6.58	-4.42/-4.17	-5.63/-2.52	-3.79/-5.84	-5.10/-10.52	-8.37/-9.91	-12.43/-12.50	-7.59/-2.84	-8.78/-8.76	-6.66/-4.75	-2.73/-1.77	-0.34/-0.06	-6.31/-8.30	-2.60/-3.69	-6.18/-2.87	-3.78/-5.41	-3.54/-4.66	
Θ (120°)	-6.17/-6.93	-8.71/-13.78	-11.93/-11.28	-6.75/-4.23	-5.84/-6.49	-6.68/-10.93	-8.10/-8.94	-5.35/-3.80	-5.10/-6.19	-5.88/-7.56	-7.45/-5.02	-3.97/-8.17	-11.66/-9.63	-10.55/-5.55	-10.81/-8.47	-0.73/-1.20	-3.75/-5.59	-6.35/-4.61	-3.54/-12.66	-8.15/-7.65	-4.53/-4.08	-2.97/-2.63	-2.56/-2.80	-4.55/-4.18
Θ (127.5°)	-6.70/-8.69	-14.82/-10.20	-10.82/-9.30	-6.81/-7.34	-11.56/-6.10	-5.84/-7.93	-4.79/-5.02	-1.89/-1.64	-4.77/-13.02	-9.78/-9.22	-6.50/-5.19	-4.32/-4.86	-9.24/-10.74	-8.42/-9.08	-14.09/-11.55	-7.41/-5.95	-1.54/-4.40	-9.51/-9.30	-8.41/-6.52	-6.88/-11.23	-12.08/-4.91	-6.77/-4.22	-2.99/-2.06	-4.31/-2.23
Θ (135°)	-6.45/-6.68	-13.71/-14.90	-15.62/-13.20	-10.01/-14.14	-10.23/-8.51	-3.50/-2.30	-1.26/-3.45	-4.90/-3.04	-3.32/-6.41	-7.93/-6.63	-8.83/-14.10	-8.47/-5.95	-10.57/-10.43	-6.89/-5.11	-5.61/-5.46	-10.55/-9.62	-7.97/-4.92	-4.89/-4.46	-3.40/-3.42	-3.96/-5.81	-10.24/-9.50	-7.26/-3.39	-1.30/-2.33	-2.55/-3.53
Θ (142.5°)	-7.09/-9.42	-14.71/-14.36	-14.95/-11.14	-10.03/-8.29	-6.08/-5.08	-6.74/-5.56	-3.22/-6.63	-2.89/-6.68	-10.12/-9.75	-7.96/-5.41	-8.58/-10.23	-8.08/-5.53	-8.61/-15.75	-6.05/-4.04	-5.65/-6.98	-10.55/-6.17	-9.76/-5.22	-10.40/-10.78	-9.90/-7.43	-8.86/-13.94	-12.29/-9.62	-8.89/-4.08	-4.00/-3.33	-4.58/-4.74
Θ (150°)	-6.86/-6.54	-6.45/-6.29	-6.58/-8.49	-11.28/-12.47	-11.39/-5.14	-2.55/-3.03	-6.89/-8.55	-4.38/-2.91	-3.69/-5.55	-5.03/-3.80	-5.31/-9.30	-13.21/-13.54	-13.61/-14.63	-10.72/-8.42	-9.88/-9.86	-5.24/-4.22	-6.09/-5.59	-5.27/-7.56	-8.23/-6.34	-7.51/-9.21	-10.37/-13.66	-11.30/-7.47	-5.12/-6.40	-6.62/-7.73
Θ (157.5°)	-6.50/-5.84	-6.62/-3.78	-7.18/-7.81	-8.69/-6.36	-5.09/-5.08	-5.52/-5.97	-5.60/-5.87	-6.78/-6.01	-5.19/-5.68	-7.95/-11.05	-12.40/-10.46	-8.83/-7.06	-8.29/-5.99	-7.89/-4.73	-8.56/-8.53	-6.11/-3.86	-3.51/-4.70	-5.75/-4.26	-2.56/-2.05	-2.54/-3.57	-4.31/-5.61	-7.40/-9.24	-7.73/-6.90	-6.61/-6.57
Θ (165°)	-5.07/-6.06	-6.67/-7.28	-8.52/-8.75	-8.35/-7.93	-8.99/-10.33	-8.67/-6.46	-5.92/-6.42	-6.33/-5.50	-5.52/-6.37	-8.36/-11.20	-15.51/-14.99	-13.29/-10.41	-8.81/-8.21	-6.86/-6.04	-6.93/-6.42	-5.65/-5.81	-6.38/-5.57	-4.22/-3.13	-2.46/-2.05	-1.79/-1.57	-0.91/-0.60	-1.48/-2.06	-2.15/-2.15	-2.78/-4.13
Θ (172.5°)	-3.07/-3.61	-4.37/-4.07	-4.70/-5.15	-5.27/-5.33	-5.42/-4.81	-4.54/-4.67	-5.45/-7.00	-9.34/-11.72	-13.85/-14.87	-15.06/-15.79	-15.46/-13.60	-10.96/-10.25	-10.53/-9.87	-9.76/-7.58	-4.70/-3.36	-3.00/-2.34	-1.98/-2.17	-2.67/-3.38	-3.69/-3.28	-3.03/-2.62	-1.91/-1.41	-1.57/-1.65	-1.92/-2.47	-2.88/-3.12
Θ (180°)	-6.23/-5.51	-4.52/-5.11	-6.08/-5.90	-5.49/-5.28	-5.48/-6.32	-7.14/-8.79	-11.30/-12.92	-12.22/-9.65	-7.66/-7.35	-7.25/-7.16	-7.68/-5.80	-9.86/-10.70	-10.03/-8.58	-7.73/-7.38	-7.35/-7.75	-7.21/-6.86	-7.32/-7.55	-6.93/-6.30	-5.88/-5.74	-5.83/-5.91	-5.00/-4.74	-5.28/-5.79	-5.75/-5.45	-5.22/-5.60
Freq(Hz)	6.475GPol.	TotalAnt 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Θ(0°)Φ(7.5°)	Θ(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°)	-6.33/-7.73	-8.18/-7.91	-8.75/-8.45	-7.75/-8.40	-9.21/-10.34	-10.16/-9.11	-8.31/-8.23	-8.65/-8.55	-8.52/-8.82	-8.87/-8.59	-8.58/-8.78	-9.51/-10.18	-9.74/-9.45	-9.60/-9.73	-10.47/-10.10	-9.78/-9.70	-10.18/-10.43	-10.29/-10.09	-8.90/-8.47	-8.39/-8.77	-9.42/-9.33	-9.15/-8.88	-7.92/-7.91	-8.33/-7.36
Θ (7.5°)	-9.79/-9.42	-8.99/-9.43	-10.25/-9.99	-9.13/-8.96	-9.04/-11.01	-13.24/-12.88	-11.09/-9.16	-8.58/-8.48	-8.19/-7.61	-7.29/-7.27	-6.79/-6.19	-5.66/-5.58	-6.03/-6.17	-6.15/-6.46	-7.36/-7.22	-6.63/-7.32	-8.23/-8.77	-8.68/-8.88	-7.88/-7.61	-7.65/-7.98	-9.27/-9.96	-8.46/-9.28	-9.20/-8.98	-8.45/-9.44
Θ (15°)	-8.12/-6.57	-5.96/-6.96	-7.12/-7.07	-7.44/-7.05	-7.95/-11.18	-12.78/-10.33	-9.44/-8.66	-8.63/-9.19	-8.68/-7.76	-7.24/-7.33	-7.47/-7.78	-8.38/-7.86	-7.36/-6.99	-6.88/-6.41	-5.67/-5.24	-4.60/-4.44	-4.49/-5.00	-5.86/-5.36	-4.54/-4.07	-3.60/-3.59	-3.44/-3.78	-4.72/-5.41	-6.20/-6.25	-5.48/-6.79
Θ (22.5°)	-5.32/-4.99	-5.12/-5.22	-5.28/-6.78	-7.97/-7.92	-10.58/-14.56	-11.53/-9.56	-8.93/-11.39	-13.86/-11.92	-9.73/-7.13	-5.64/-6.69	-6.47/-7.82	-9.09/-8.95	-8.21/-7.75	-8.36/-9.41	-8.75/-6.19	-4.30/-3.31	-3.15/-2.94	-2.82/-2.84	-3.11/-2.95	-2.79/-2.94	-2.76/-2.83	-2.32/-2.17	-3.24/-4.42	-4.93/-5.38
Θ (30°)	-6.19/-5.57	-5.58/-6.28	-7.47/-10.12	-10.57/-12.15	-15.84/-11.55	-10.48/-9.52	-11.75/-14.63	-13.75/-13.80	-14.46/-10.77	-7.99/-8.53	-8.09/-6.41	-4.34/-2.78	-3.12/-3.28	-3.14/-3.60	-3.92/-2.49	-0.58/0.24	0.22/-0.00	-0.50/-0.42	1.20/0.79	-0.25/-1.08	-1.36/-1.49	-1.02/-0.63	-2.12/-3.81	-5.39/-6.44
Θ (37.5°)	-6.17/-4.66	-4.48/-6.58	-7.15/-8.74	-10.12/-7.67	-7.57/-10.90	-11.50/-9.96	-11.13/-13.16	-15.32/-9.65	-9.52/-9.29	-9.51/-13.51	-7.33/-3.52	-3.40/-5.75	-6.64/-9.3	-3.84/-2.53	-1.29/-0.55	1.06/1.90	1.45/0.49	-0.86/-0.87	0.52/0.04	-0.96/-2.07	-0.98/-0.01	-0.57/-0.38	-2.68/-4.33	-7.71/-7.48
Θ (45°)	-6.69/-7.97	-7.02/-6.94	-6.06/-4.92	-6.59/-8.26	-6.84/-8.77	-11.35/-8.10	-5.31/-4.97	-8.68/-6.51	-5.02/-7.72	-4.27/-5.29	-5.95/-3.72	-2.42/-4.55	-2.92/-2.57	-2.69/-0.95	-0.47/-0.43	-0.06/0.97	0.59/-0.16	0.06/-0.61	-0.18/0.92	-1.94/-2.45	0.03/0.67	0.50/0.16	-2.47/-2.63	-4.27/-5.98
Θ (52.5°)	-6.65/-7.39	-9.49/-9.97	-8.32/-6.86	-6.53/-7.11	-6.86/-4.86	-4.09/-2.30	-2.82/-2.72	-2.87/-0.42	-0.83/-3.94	-0.45/-3.75	-6.40/-6.47	-4.25/-3.75	-1.83/-1.07	-2.27/-1.16	-0.10/-0.54	-0.01/1.51	0.39/-0.72	-0.48/-1.44	-2.54/-2.35	-2.42/-1.77	-0.52/-1.38	-0.10/0.00	-1.24/-1.22	-3.48/-3.85
Θ (60°)	-8.16/-5.26	-5.75/-10.23	-7.42/-5.19	-5.41/-4.47	-3.00/-2.66	-2.80/-3.43	-1.25/-0.34	-0.73/-0.17	0.75/-1.00	0.38/-4.96	-5.54/-6.13	-7.32/-9.06	-4.50/-3.23	-4.87/-4.72	-0.91/0.12	-2.83/-1.16	-0.80/-4.21	-3.41/-3.02	-4.81/-2.25	-4.49/-2.17	-1.76/-1.64	0.30/-0.95	-1.63/-2.36	-7.71/-7.45
Θ (67.5°)	-7.93/-7.64	-5.07/-7.50	-8.54/-4.74	-2.64/-2.37	-2.36/-4.58	-3.41/-2.64	-2.80/-1.24	0.27/0.38	-0.13/-2.31	-0.04/-4.12	-2.20/-3.02	-5.99/-7.08	-4.58/-2.23	-2.14/-5.64	-1.32/0.95	-2.80/-1.74	-6.87/-8.13	-5.23/-3.22	-3.33/-3.94	-3.33/-2.73	-2.60/-2.96	-1.01		



Antenna Pattern of 6GHz

Appendix D

θ (60°)	-5.88/-4.99	-6.54/-5.79	-2.94/-3.35	-5.22/-5.39	-4.37/-4.29	-2.52/-2.89	-2.13/-0.06	-2.09/-3.60	-0.55/-2.69	-5.12/-3.99	-5.93/-7.57	-4.85/-1.87	-2.57/-2.43	-3.63/-6.04	-6.62/-5.42	-2.78/-0.79	0.73/-0.70	-1.14/-0.52	-1.17/-0.96	-0.85/-0.57	-0.01/-0.67	0.40/-1.05	1.36/0.60	-0.31/-2.70
θ (67.5°)	-4.04/-4.69	-9.99/-7.09	-2.66/-2.33	-5.51/-8.49	-6.50/-6.35	-5.84/-3.49	-3.16/-1.35	-1.77/-3.02	-0.96/-4.50	-3.59/-3.78	-7.95/-13.94	-7.22/-4.33	-2.12/-1.97	-4.73/-6.90	-4.18/-5.53	-3.84/-1.74	-3.66/-3.35	-2.65/-5.25	-4.97/-4.39	-2.61/-0.10	-0.39/-0.34	0.95/-1.50	0.27/-0.66	-1.13/-3.13
θ (75°)	-3.27/-2.71	-6.07/-6.63	-3.28/-1.92	-3.95/-7.71	-7.33/-7.03	-8.44/-4.50	-4.08/-1.18	-2.91/-3.07	-1.21/-4.54	-4.41/-4.29	-7.35/-4.02	-1.94/-3.51	-4.51/-3.36	-3.06/-4.71	-4.39/-2.74	-3.97/-6.98	-1.02/-0.61	-4.81/-3.47	-5.44/-3.25	-1.05/-0.13	1.05/0.08	-0.62/-1.55	-1.20/-3.52	
θ (82.5°)	-3.13/-2.56	-6.10/-6.39	-3.19/-2.50	-3.46/-5.47	-5.86/-7.83	-10.44/-4.06	-3.42/-0.82	-2.62/-2.01	-3.21/-3.06	-3.44/-5.08	-5.55/-7.98	-3.40/-0.83	-1.45/-6.46	-4.44/-5.91	-3.69/-5.41	-6.12/-3.04	-1.71/-4.23	-0.33/-1.16	-1.42/-3.01	-3.84/-5.48	-1.74/-0.02	0.20/0.76	-2.08/-3.39	-1.00/-3.83
θ (90°)	-2.37/-2.86	-6.83/-4.55	-2.71/-2.84	-3.32/-5.63	-6.77/-10.78	-10.47/-4.16	-3.36/-2.33	-2.77/-1.61	-2.80/-1.90	-4.16/-4.77	-5.18/-7.28	-3.46/-0.81	0.18/-3.51	-2.73/-4.65	-6.15/-8.92	-5.48/-5.81	-3.69/-2.66	-3.32/-4.42	-0.19/-0.87	-3.10/-3.19	-5.00/-1.55	-1.78/-0.41	-1.79/-4.81	-2.20/-3.60
θ (97.5°)	-5.40/-3.38	-5.40/-3.40	-2.14/-2.01	-2.65/-2.92	-4.94/-7.87	-9.19/-7.33	-0.91/-0.76	-2.03/-1.77	-2.81/-1.72	-4.63/-5.97	-5.77/-6.08	-3.82/-1.52	-1.17/-0.95	-1.12/-4.68	-6.68/-6.71	-9.29/-5.85	-3.03/-5.66	-7.03/-6.61	0.21/-0.60	-3.27/-3.65	-1.78/-1.51	-2.18/-1.12	-2.25/-6.32	-2.86/-4.21
θ (105°)	-6.33/-4.15	-5.48/-3.20	-1.55/-2.25	-2.73/-2.24	-4.22/-5.71	-5.41/-5.54	-2.88/-1.34	-2.73/-2.89	-2.80/-2.08	-7.60/-8.53	-8.99/-6.43	-6.39/-2.41	-5.17/-3.65	-2.76/-5.02	-12.57/-6.32	-9.37/-5.10	-6.58/-10.26	-7.21/-3.67	-0.86/0.58	-4.92/-2.73	-2.30/-3.98	-1.98/-2.58	-3.69/-4.61	-2.99/-5.30
θ (112.5°)	-7.46/-4.79	-4.34/-3.21	-2.29/-2.71	-2.82/-2.31	-3.31/-4.34	-2.97/-4.60	-4.62/-2.19	-1.71/-3.12	-5.15/-3.10	-7.57/-13.68	-6.79/-10.43	-8.22/-7.77	-5.52/-2.55	-6.34/-9.64	-9.38/-10.80	-11.47/-2.22	-12.38/-8.72	-7.49/-4.71	-2.79/-2.81	-7.08/-2.83	0.41/-5.35	-2.29/-4.80	-4.13/-3.93	-3.09/-4.20
θ (120°)	-5.09/-5.71	-5.60/-4.15	-2.81/-4.13	-5.81/-4.02	-3.42/-4.12	-4.70/-4.73	-3.76/-2.02	-2.46/-4.07	-4.99/-5.20	-6.33/-8.12	-7.83/-9.35	-11.37/-11.23	-10.42/-8.03	-10.60/-15.69	-10.91/-6.50	-2.21/-3.32	-5.33/-6.07	-8.30/-5.60	-5.34/-2.61	-5.26/-6.73	-3.22/-4.17	-1.48/-4.12	-6.46/-5.12	-3.50/-2.71
θ (127.5°)	-4.18/-4.28	-3.74/-4.27	-3.30/-3.30	-3.96/-4.42	-3.71/-4.55	-4.72/-5.27	-5.79/-9.49	-5.85/-3.61	-5.81/-11.06	-5.93/-8.75	-9.52/-6.81	-5.40/-6.25	-6.93/-6.23	-10.00/-9.25	-3.88/-2.67	-5.76/-12.63	-15.31/-6.78	-11.52/-10.03	-7.36/-6.59	-4.22/-8.14	-5.28/-4.35	-2.41/-2.73	-6.48/-8.18	-4.12/-2.37
θ (135°)	-4.32/-3.12	-3.63/-2.95	-2.10/-2.37	-4.16/-5.19	-5.21/-5.22	-4.60/-4.59	-6.84/-5.52	-2.49/-3.22	-6.08/-6.91	-6.53/-5.96	-14.11/-4.74	-3.42/-6.54	-9.19/-5.67	-6.18/-6.66	-4.80/-8.54	-9.73/-12.91	-5.42/-6.56	-8.86/-11.03	-10.03/-11.65	-6.92/-9.97	-6.91/-5.51	-4.44/-4.53	-2.85/-3.47	-5.17/-5.37
θ (142.5°)	-4.82/-7.09	-4.62/-6.26	-0.96/-1.94	-5.11/-1.90	-2.63/-3.20	-3.00/-3.38	-3.76/-3.41	-2.44/-4.10	-5.24/-4.62	-4.28/-6.42	-9.12/-4.46	-6.48/-4.42	-7.91/-7.23	-5.55/-5.95	-8.74/-15.15	-9.98/-6.52	-11.15/-6.98	-8.67/-4.85	-10.58/-6.68	-6.53/-5.68	-5.20/-5.63	-5.63/-4.35		
θ (150°)	-6.58/-8.42	-10.15/-7.84	-4.86/-2.85	-2.12/-1.30	-1.47/-2.77	-3.22/-3.19	-2.24/-2.37	-4.32/-3.88	-2.31/-3.20	-6.04/-6.97	-5.05/-5.34	-7.61/-10.06	-9.35/-9.97	-13.22/-11.35	-15.92/-15.07	-11.47/-6.02	-6.47/-8.55	-8.32/-10.27	-5.32/-3.39	-2.39/-1.71	-4.65/-5.74	-6.42/-13.47	-8.74/-5.21	-4.30/-4.31
θ (157.5°)	-6.04/-3.69	-3.09/-3.98	-4.73/-5.33	-5.33/-4.34	-2.87/-2.32	-2.36/-1.75	-2.02/-4.98	-7.80/-6.92	-5.34/-5.91	-8.70/-9.67	-7.74/-7.52	-7.84/-9.70	-10.81/-10.00	-13.51/-10.67	-11.71/-10.70	-9.14/-10.67	-13.52/-13.85	-11.69/-8.07	-4.42/-2.82	-0.98/-0.31	-1.96/-3.85	-4.24/-5.56	-5.20/-6.58	-10.68/-8.82
θ (165°)	-9.46/-7.14	-5.56/-5.76	-6.14/-7.08	-7.47/-7.70	-8.85/-9.99	-9.57/-8.71	-8.58/-8.34	-6.79/-6.52	-4.75/-9.79	-12.44/-11.31	-8.98/-8.68	-9.40/-10.75	-14.07/-12.51	-13.96/-11.81	-7.09/-9.07	-10.10/-9.32	-8.11/-6.85	-4.93/-4.37	-3.26/-2.59	-3.92/-3.24	-1.08/-2.08	-3.57/-4.80	-7.57/-10.01	
θ (172.5°)	-8.85/-8.17	-6.99/-6.37	-5.91/-6.00	-6.38/-7.10	-8.65/-9.46	-10.35/-11.57	-10.68/-9.84	-9.52/-9.36	-9.02/-8.23	-7.88/-7.57	-7.58/-8.41	-10.81/-13.63	-13.69/-13.45	-14.02/-13.33	-12.39/-11.73	-12.92/-13.22	-11.41/-11.23	-10.07/-8.64	-9.02/-8.62	-7.43/-7.89	-10.24/-11.03	-9.18/-8.79	-9.42/-8.31	-8.01/-7.85
θ (180°)	-9.73/-9.90	-8.60/-9.03	-10.46/-9.48	-8.87/-9.01	-7.69/-6.61	-5.95/-4.74	-4.65/-5.75	-7.34/-8.83	-9.81/-10.16	-10.61/-11.00	-11.19/-11.50	-11.46/-10.33	-9.50/-9.28	-9.29/-9.13	-10.33/-10.92	-10.57/-11.99	-12.94/-13.45	-13.82/-14.41	-14.70/-13.84	-14.74/-15.82	-14.37/-12.94	-12.68/-13.25	-13.07/-12.96	-10.98/-10.30
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°)	-0.37/-0.54	-0.50/-0.47	-0.43/-0.40	-0.13/-0.26	0.01/0.11	-0.09/0.13	0.36/0.59	0.60/0.46	0.43/0.60	0.71/0.60	0.65/0.97	1.08/1.02	1.10/1.54	1.70/1.70	1.80/1.78	1.73/1.87	1.81/1.74	1.71/1.49	1.18/0.73	0.66/0.51	0.16/0.16	-0.26/-0.52	-0.45/-0.49	-0.56/-0.34
θ (7.5°)	1.62/1.53	1.61/1.87	1.98/2.03	1.93/2.04	2.14/1.94	1.21/0.77	0.87/0.28	-0.18/0.03	-0.17/0.60	-0.91/-1.20	-1.17/-0.92	-0.83/-0.52	-0.34/-0.52	-0.84/-0.50	-0.56/-0.59	-0.35/-0.27	-0.30/-0.23	0.15/0.68	0.04/0.55	1.17/1.28	1.26/1.36	1.34/1.23	1.38/1.53	1.57/1.58
θ (15°)	-1.13/-1.36	-1.01/-0.28	0.13/0.49	1.10/1.32	1.72/2.05	1.41/0.54	-0.06/-0.45	-0.53/-0.27	-0.29/-0.52	-0.30/-0.38	-0.51/-0.42	-0.08/-0.12	-0.45/-0.37	-0.22/0.06	0.44/0.89	1.31/1.38	1.16/1.00	0.70/1.07	1.29/1.25	1.74/1.78	1.77/1.60	1.01/0.11	-0.48/-0.87	-1.52/-1.22
θ (22.5°)	-1.20/-1.72	-2.06/-1.27	-0.75/-0.74	-0.27/0.06	0.82/1.77	1.76/0.70	0.05/0.38	-0.44/0.02	0.03/-1.49	-2.83/-2.98	-0.69/-2.34	-1.71/-1.45	-1.98/-2.05	-1.54/-0.90	-0.48/0.06	0.36/1.11	1.76/1.42	0.75/0.51	1.20/1.76	2.36/2.37	1.38/-0.22	-1.11/-1.85	-1.60/-1.48	-1.21/-0.85
θ (30°)	-5.43/-5.26	-3.40/-2.87	-2.18/-1.25	-0.45/-0.46	-0.28/1.16	1.09/0.85	0.54/-0.46	1.57/0.91	-1.03/-2.82	-3.50/-4.38	-3.44/-4.00	-3.10/-1.74	-1.90/-1.37	-1.50/-1.53	-1.79/-2.36	1.06/0.01	1.47/2.54	2.48/0.80	-0.52/0.14	1.68/1.17	-0.51/-1.20	-1.02/-0.98	-1.35/-2.12	-3.19/-5.01
θ (37.5°)	-4.94/-4.48	-5.78/-6.57	-4.84/-3.36	-1.92/-0.28	-0.36/-0.78	0.15/0.55	1.35/2.00	1.49/0.67	-0.75/-2.86	-3.50/-3.57	-6.46/-6.39	-5.17/-4.63	-5.30/-5.15	-4.79/-4.64	-4.15/-4.09	-2.34/-0.45	0.54/2.10	2.87/2.44	1.19/-0.20	0.70/0.03	-1.98/-1.55	-1.02/-1.74	-4.35/-5.19	-5.37/-4.77
θ (45°)	-4.50/-4.04	-4.12/-4.43	-4.66/-4.90	-4.42/-4.15	-2.24/-1.30	-0.11/1.87	0.86/0.95	1.72/1.12	-0.90/-2.75	-1.19/-2.90	-10.95/-7.54	-4.11/-4.41	-4.66/-5.78	-5.67/-6.80	-9.33/-4.26	-3.24/-2.89	-0.41/0.06	1.53/1.65	0.77/0.63	-1.30/-0.14	-1.44/-1.63	-2.83/-3.20	-1.41/-0.98	-0.76/-0.32
θ (52.5°)	-4.59/-3.30	-3.82/-4.56	-5.99/-7.86	-5.76/-7.25	-3.35/-1.02	-0.57/0.52	1.02/2.04	1.43/-1.19	-1.29/-2.09	-3.80/-5.72	-7.24/-6.04	-3.04/-1.62	-1.94/-2.63	-5.08/-7.81	-4.02/-2.49	-0.10/1.38	2.98/2.02	0.99/0.40	-1.44/-1.35	-2.62/-1.36	-1.55/-0.36	1.29/-0.27	-0.78/-1.34	
θ (60°)	-2.77/-2.52	-2.34/-1.50	-4.00/-8.28	-11.25/-9.41	-6.01/-2.59	-2.12/0.25	1.56/-0.57	0.15/-1.36	-1.24/-2.91	-5.03/-6.69	-5.97/-6.79	-4.86/-1.49	-1.35/-1.71	-2.11/-3.90	-6.06/-6.07	-4.95/-1.51	-0.07/0.22	1.04/-0.44	-1.37/-1.06	-1.62/-0.93	-1.35/0.84	0.32/1.21	-0.03/-0.65	-1.01/-2.45
θ (67.5°)	-2.28/-2.67	-2.28/-1.41	-2.43/-5.20	-8.67/-7.69	-8.24/-6.26	-1.84/-1.41	1.35/0.92	-0.12/-2.22	-2.47/-3.93	-7.62/-4.14	-6.80/-8.19	-6.64/-1.00	-3.27/-1.24	-1.86/-2.51	-3.41/-7.75	-8.12/-9.43	-3.71/-3.11	-2.42/-2.69	-5.23/-3.49	-2.30/-0.99	-1.20/0.98	0.45/0.05	-0.53/-0.37	-0.86/-1.35
θ (75°)	-2.27/-3.27	-2.56/-1.70	-3.34/-4.46	-6.14/-7.28	-10.23/-12.67	-4.37/-1.77	-0.79/-0.65	-0.70/-1.46	-3.95/-5.63	-7.02/-5.00	-8.27/-12.00	-6.84/-4.47	-1.95/-1.82	-3.17/-3.11	-3.25/-7.61	-7.21/-6.20	-5.91/-2.89	-1.56/-0.78	-3.22/-4.26	-4.35/-2.01	-0.10/0.89	2.41/1.68	-1.16/-0.20	-1.45/-2.12
θ (82.5°)	-3.30/-3.48	-3.55/-3.73	-3.19/-4.22	-5.78/-5.07	-1.63/-4.21	-1.06/-2.17	-0.90/-1.67	-5.04/-6.79	-4.19/-7.83	-11.06/-10.13	-6.41/-1.32	-0.27/-1.94	-3.68/-2.99	-4.49/-9.94	-4.92/-3.75	-4.05/-1.33	-0.27/-1.10	-2.80/-3.23	-5.36/-3.28	-0.66/0.24	0.75/1.20	-1.34/-0.22	-1.62/-3.23	
θ (90°)	-5.04/-3.80	-3.00/-2.80	-4.00/-5.48	-4.70/-3.70	-10.09/-10.76	-6.39/-5.50	-3.22/-1.18	-3.44/-1.51	-6.38/-6.19	-7.25/-7.79	-5.58/-1.41	-0.78/-2.13	-2.16/-3.78	-4.15/-9.71	-6.76/-5.45	-2.99/-8.22	-2.17/-5.28	-3.26/-3.10	-3.50/-5.06	-2.22/-1.97	0.34/-1.01	-0.96/-1.10	-1.59/-4.00	
θ (97.5°)	-3.41/-3.82	-3.15/-3.40	-4.88/-4.40	-3.39/-4.54	-7.46/-7.14	-6.02/-7.72	-5.32/-3.49	-1.52/-2.02	-5.13/-3.33	-5.18/-6.73	-6.61/-7.73	-4.63/-1.14	-1.66/-2.97	-1.12/-3.79	-6.48/-6.38	-10.78/-10.06	-2.37/-5.66	-11.42/-7.02	-3.38/-3.16	-5.46/-5.84	-1.70/-3.48	-0.95/-3.40	-3.49/-1.56	-1.57/-3.81
θ (105°)	-4.32/-4.93	-2.82/-2.86	-4.97/-5.05	-2.28/-3.92	-5.97/-5.16	-3.74/-3.77	-5.68/-2.27	-1.54/-2.18	-4.23/-1.49	-5.69/-5.70	-6.82/-7.23	-6.35/-3.02	-2.92/-4.57	-3.97/-3.39	-8.37/-6.46	-12.42/-6.99	-8.87/-12.32	-13.52/-2.57	-2.07/-1.85	-5.38/-6.75	-2.62/-8.59	-0.51/-4.72	-4.31/-2.72	-1.52/-3.26
θ (112.5°)	-4.54/-5.16	-3.74/-2.65	-2.97/-3.09	-3.46/-5.27	-3.61/-4.70	-4.94/-1.62	-0.97/-1.63	-0.73/-0.95	-4.19/-2.48	-5.47/-7.36	-5.64/-5.74	-8.17/-4.20	-9.07/-5.41	-5.36/-5.17	-8.44/-11.64	-12.69/-1.81	-15.41/-11.48	-8.41/-2.87	-2.97/-3.95	-9.37/-6.01	1.04/-5.39	-1.89/-4.48	-4.94/-3.50</	



Antenna Pattern of 6GHz

Appendix D

Θ(105°)	-4.12/-5.24	-4.08/-6.78	-5.41/-7.83	-6.11/-8.02	-4.54/-2.51	0.40/-1.04	0.01/-1.97	-2.02/-0.95	-2.51/-4.74	-5.94/-8.60	-6.55/-4.21	-5.01/-3.48	0.22/-2.15	-6.36/-5.95	-2.54/-1.61	-3.57/-3.40	-5.42/-4.14	0.86/0.31	0.32/-7.04	-3.38/-5.88	-3.94/-5.50	-7.61/-5.24	-6.56/-1.23	-3.62/-3.93
Θ(112.5°)	-7.30/-4.04	-2.47/-4.58	-11.28/-6.49	-2.67/-0.81	-5.09/-2.83	1.49/-0.14	-2.66/-4.35	-2.86/-3.06	-8.16/-4.87	-4.91/-9.52	-9.65/-9.03	-3.28/-0.35	1.02/-4.45	-5.01/-4.68	-1.44/-7.30	-1.64/-1.15	-5.27/-5.58	0.07/-0.49	0.59/-6.02	-2.29/-1.20	-2.38/-11.64	-1.60/-8.47	-8.29/-7.23	-6.18/-11.01
Θ(120°)	-4.47/-5.43	-4.08/-3.48	-4.88/-7.21	-5.41/-1.29	-4.82/-5.14	-1.42/-1.77	-2.55/-3.79	-5.20/-5.95	-7.43/-4.83	-5.43/-8.76	-7.28/-10.10	-3.55/-0.65	0.27/-4.95	-10.92/-8.65	-0.77/-2.91	-0.49/-0.48	-7.29/-5.73	-1.57/-2.44	-3.33/-9.45	-12.30/-4.60	-0.89/-4.61	-7.27/-7.11	-8.70/-6.62	-3.60/-5.51
Θ(127.5°)	-5.24/-8.92	-14.41/-6.63	-9.93/-9.64	-10.46/-8.68	-6.41/-7.27	-7.51/-8.71	-5.53/-7.52	-10.26/-7.18	-7.44/-4.69	-3.81/-4.83	-8.01/-10.36	-3.82/-0.95	-3.20/-5.67	-8.11/-2.72	0.97/-0.76	-1.51/-5.53	-9.91/-6.28	2.98/-2.35	-3.62/-7.53	-6.74/-3.92	-7.51/-8.17	-6.60/-7.60	-5.48/-3.56	0.05/-2.73
Θ(135°)	-10.15/-6.51	-7.93/-13.31	-12.69/-9.87	-7.68/-8.21	-9.44/-9.87	-9.53/-11.69	-7.65/-5.06	-7.46/-8.43	-8.32/-6.07	-3.11/-3.65	-6.70/-5.72	-3.80/-2.72	-3.88/-5.33	-6.88/-2.92	-0.52/-1.86	-4.40/-3.90	-5.90/-5.76	-6.94/-4.95	-7.54/-8.26	-7.28/-4.24	-3.82/-5.86	-9.64/-8.45	-5.69/-3.54	-2.71/-5.16
Θ(142.5°)	-4.73/-3.57	-3.12/-6.37	-11.62/-5.37	-3.39/-5.12	-8.16/-11.23	-12.08/-10.89	-10.62/-9.24	-6.35/-4.97	-5.91/-5.45	-4.37/-7.49	-8.15/-4.27	-1.88/-1.98	-4.86/-7.91	-8.96/-5.96	-5.13/-3.74	-3.40/-4.73	-6.52/-6.33	-4.39/-6.54	-6.29/-11.88	-14.84/-15.01	-5.89/-3.04	-4.45/-12.22	-9.34/-10.72	-9.75/-5.69
Θ(150°)	-6.04/-4.89	-3.85/-5.09	-8.47/-12.12	-12.38/-10.20	-7.46/-6.15	-7.35/-12.46	-15.42/-8.79	-5.85/-5.62	-7.34/-8.01	-7.88/-6.88	-5.82/-4.59	-4.04/-3.00	-3.78/-5.93	-8.43/-9.91	-5.55/-3.43	-2.46/-1.76	-3.26/-3.23	-3.20/-4.34	-4.52/-5.11	-6.25/-8.14	-9.19/-6.28	-5.07/-7.54	-11.46/-11.13	-7.71/-8.03
Θ(157.5°)	-15.45/-13.51	-11.50/-10.36	-10.88/-13.24	-15.37/-13.63	-8.42/-6.09	-5.87/-6.51	-7.48/-8.96	-9.55/-9.06	-8.63/-8.80	-7.32/-5.54	-5.29/-5.81	-6.00/-6.30	-7.94/-10.75	-10.80/-9.61	-8.14/-6.17	-3.62/-3.24	-4.13/-2.95	-2.42/-3.49	-5.56/-6.94	-8.49/-12.26	-13.06/-8.48	-6.87/-8.74	-13.23/-14.94	-15.90/-13.94
Θ(165°)	-9.82/-10.24	-8.79/-9.39	-10.39/-11.89	-13.98/-15.02	-13.89/-11.65	-9.72/-8.79	-8.96/-8.82	-8.59/-8.03	-7.08/-6.30	-5.76/-4.92	-4.31/-3.73	-3.29/-3.57	-4.03/-4.82	-6.12/-7.08	-7.08/-7.04	-7.05/-6.31	-4.12/-2.54	-2.27/-3.66	-6.95/-10.22	-11.00/-9.86	-7.87/-6.60	-5.68/-6.07	-6.39/-5.65	-5.20/-7.57
Θ(172.5°)	-13.77/-14.55	-14.45/-14.11	-14.76/-14.63	-14.07/-12.79	-11.55/-10.97	-10.50/-11.02	-12.29/-13.40	-12.86/-11.53	-10.51/-9.77	-8.96/-8.34	-7.24/-5.74	-5.13/-5.09	-5.88/-7.03	-7.71/-7.82	-7.60/-7.60	-6.97/-6.38	-6.48/-7.08	-8.00/-9.83	-13.42/-14.77	-14.80/-14.10	-13.81/-13.62	-12.68/-12.46	-13.70/-12.50	-10.94/-12.50
Θ(180°)	-11.86/-11.38	-10.84/-10.78	-11.69/-12.11	-12.76/-12.81	-12.99/-13.46	-13.33/-13.77	-13.51/-13.69	-13.75/-12.93	-11.90/-11.57	-11.65/-10.32	-9.80/-9.74	-10.76/-10.99	-10.73/-10.61	-11.88/-13.50	-13.78/-14.48	-14.81/-15.47	-15.39/-15.55	-15.98/-14.68	-12.89/-10.87	-9.44/-10.09	-12.15/-12.82	-10.93/-9.07	-9.89/-11.79	-12.55/-11.37
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°)	-6.59/-7.10	-7.73/-3.19	-7.31/-6.19	-5.96/-5.97	-6.06/-6.28	-6.42/-5.89	-5.80/-5.63	-5.43/-5.59	-5.63/-5.68	-5.69/-5.75	-5.63/-5.66	-5.25/-5.05	-5.21/-5.92	-5.47/-4.68	-4.40/-4.78	-5.22/-4.85	-4.40/-4.03	-4.07/-4.20	-4.50/-4.70	-5.03/-5.43	-5.33/-5.06	-5.18/-5.35	-5.23/-5.00	-5.49/-5.78
Θ(7.5°)	-6.90/-7.34	-7.76/-7.08	-6.50/-6.08	-5.79/-5.18	-5.26/-5.07	-4.76/-4.17	-4.23/-4.76	-5.00/-5.66	-6.77/-7.54	-7.88/-8.11	-8.48/-8.44	-9.11/-9.82	-9.69/-9.18	-8.72/-8.18	-7.90/-7.67	-7.25/-6.54	-5.96/-5.82	-5.75/-5.57	-5.02/-5.06	-5.40/-5.90	-5.79/-5.40	-6.06/-6.11	-6.09/-6.93	-
Θ(15°)	-6.45/-5.89	-6.01/-5.28	-3.86/-3.19	-2.84/-2.45	-2.37/-2.24	-2.04/-1.80	-1.69/-1.99	-2.62/-3.53	-4.49/-5.22	-5.90/-6.26	-6.57/-6.07	-5.57/-5.14	-5.47/-6.89	-6.57/-6.07	-7.79/-10.53	-11.53/-10.60	-9.89/-8.71	-8.19/-7.81	-7.45/-7.28	-8.52/-10.49	-10.62/-10.33	-9.86/-9.12	-8.22/-7.50	-6.30/-6.61
Θ(22.5°)	-1.27/-1.16	0.03/0.18	-0.33/-0.58	-0.17/0.38	0.41/-0.29	-1.20/-1.33	-1.36/-1.59	-2.12/-2.78	-2.82/-2.61	-2.69/-2.89	-3.60/-5.21	-5.95/-5.10	-5.75/-8.38	-9.75/-9.20	-10.45/-12.96	-12.92/-11.08	-9.34/-7.62	-6.60/-7.04	-7.08/-6.02	-5.74/-6.15	-7.10/-6.82	-5.92/-5.00	-4.10/-3.42	-1.55/-1.36
Θ(30°)	-0.66/-1.56	-0.71/-0.12	-0.72/-0.44	0.74/1.46	1.21/0.48	1.60/0.47	1.21/0.48	-3.02/-3.01	-3.42/-3.28	-3.59/-4.11	-4.22/-4.36	-3.46/-2.68	-2.87/-3.42	-3.94/-4.78	-6.14/-9.47	-12.06/-9.85	-7.45/-5.67	-4.66/-5.67	-8.73/-9.55	-8.47/-6.20	-4.48/-3.59	-3.82/-2.83	-3.61/-3.78	-1.51/-0.39
Θ(37.5°)	1.23/1.24	0.15/-1.08	-0.64/-0.14	-0.71/-1.65	-2.15/-1.13	-0.57/-0.68	-0.86/-1.13	-0.74/-0.39	-0.79/-1.62	-3.61/-3.51	-2.88/-3.32	-3.99/-3.91	-2.79/-4.53	-6.61/-9.03	-10.19/-6.62	-6.34/-7.70	-7.64/-7.03	-7.40/-7.05	-5.99/-5.70	-4.63/-3.92	-3.58/-2.72	-1.98/-0.94	-0.70/-0.50	-0.77/-0.09
Θ(45°)	1.12/2.02	1.52/2.10	-1.59/-1.09	-1.80/-1.30	0.06/1.07	1.55/-1.89	1.59/2.21	2.74/2.02	1.51/0.04	-1.42/-0.74	-1.35/-3.52	-3.62/-2.52	-2.52/-3.10	-5.91/-8.80	-8.06/-7.01	-5.76/-7.21	-6.00/-3.11	-6.14/-3.66	-5.43/-4.99	-3.92/-3.55	-2.90/-2.25	0.57/0.57	-1.04/-2.48	-0.69/0.52
Θ(52.5°)	-0.84/-1.20	-1.74/-3.16	-7.28/-5.84	-4.39/-0.86	1.06/0.47	2.62/1.67	2.17/2.37	3.22/2.72	1.68/0.01	0.18/0.52	-1.81/-3.29	-3.67/-4.52	-2.26/-1.96	-2.24/-5.41	-5.14/-4.77	-3.26/-4.96	-5.30/-6.19	-9.27/-7.71	-5.01/-3.30	-1.04/-3.01	-0.31/0.46	-2.16/-5.85	-4.32/-3.21	-
Θ(60°)	-0.99/-2.57	-2.70/-3.09	-9.28/-7.08	-2.72/-0.84	0.59/1.65	2.00/3.20	2.92/3.39	3.27/2.56	2.25/1.18	1.13/0.10	-1.64/-1.56	-2.40/-6.29	-5.18/-3.32	-1.82/-2.21	-2.76/-2.08	-1.60/-2.04	-6.33/-2.48	-3.30/-2.28	-1.15/-1.66	-2.03/-5.14	-4.67/-2.65	-1.00/-1.26	-4.86/-0.22	-0.54/-1.84
Θ(67.5°)	0.16/-0.70	-2.09/-2.92	-6.23/-3.98	-0.77/-0.78	-0.56/1.23	1.89/3.10	2.84/2.45	1.94/2.49	1.17/0.07	0.68/0.45	-1.16/-0.66	-2.40/-5.07	-7.43/-4.73	-3.98/-1.66	-4.50/-4.17	-1.21/-1.05	-2.73/-1.68	-2.05/-0.83	-1.50/-1.92	-1.63/-3.82	-3.29/-4.66	-3.88/-1.00	-1.68/0.62	-0.05/-1.17
Θ(75°)	1.45/-0.03	-3.39/-4.22	-3.94/-2.52	0.28/-1.54	-2.52/-0.15	1.06/3.96	3.52/3.93	1.65/2.36	1.74/-0.33	-0.34/-0.39	-2.32/-1.55	-1.58/-2.28	-7.92/-9.34	-7.52/-3.18	-3.89/-3.41	-1.30/-1.06	-2.41/-2.26	-0.69/-0.13	-2.69/-2.31	-1.94/-2.16	-3.56/-6.19	-1.51/-1.84	-3.81/0.21	-3.95/-1.90
Θ(82.5°)	2.65/0.28	-6.73/-4.09	-1.66/-0.24	-0.76/-4.83	-1.72/-1.02	1.70/3.92	3.28/3.11	1.61/0.42	0.25/-0.90	-1.72/-0.93	-3.62/-2.79	-1.72/-2.85	-13.65/-9.06	-8.78/-5.02	-4.59/-3.35	-1.36/-2.94	-0.95/0.13	1.34/0.36	1.01/0.69	-0.27/-1.08	-1.77/-5.54	0.21/-3.33	-4.49/-2.26	-3.95/-0.57
Θ(90°)	2.85/0.62	-9.06/-3.20	0.14/-1.74	-3.42/-8.53	-2.56/-1.10	1.54/2.33	2.68/2.88	1.27/-0.29	-1.03/-1.58	-4.49/-4.10	-4.37/-3.73	-1.33/-1.73	-8.32/-11.51	-10.32/-4.48	-5.29/-2.81	-1.90/-2.08	-3.16/-0.10	0.42/-0.27	1.77/-0.16	0.78/0.42	-1.83/-4.86	-1.00/-5.59	-8.30/-4.28	-3.15/-1.02
Θ(97.5°)	-0.18/-2.04	-9.53/-3.88	-0.15/-4.26	-6.04/-11.47	-2.34/-2.25	0.61/0.15	0.19/1.72	1.78/-0.78	-2.64/-3.89	-6.69/-2.56	-5.76/-3.82	-0.91/-3.35	-12.74/-10.28	-8.05/-6.69	-7.00/-6.30	-2.50/-0.84	-3.50/-2.97	-0.50/-0.82	-0.05/-2.62	-0.36/-0.45	-3.59/-4.22	-7.51/-8.88	-5.24/-3.67	-2.23/-3.66
Θ(105°)	-4.55/-4.10	-5.61/-6.36	-3.30/-13.31	-6.37/-5.94	-3.39/-1.26	-0.16/0.23	0.48/1.23	-0.19/-2.72	-0.77/-1.11	-4.40/-4.96	-11.21/-4.69	-7.32/-3.40	-5.28/-12.83	-10.27/-3.42	-4.33/-6.02	-4.89/-2.26	-8.40/-4.01	0.28/1.16	1.15/-1.09	-1.39/-0.77	-5.49/-3.32	-8.82/-5.93	-5.27/-1.80	-6.11/-3.91
Θ(112.5°)	-5.14/-3.59	-5.44/-10.19	-6.32/-4.61	-2.32/-2.59	-6.87/-2.34	-2.40/-3.32	-3.44/-3.45	-5.57/-1.17	-6.61/-11.69	-14.87/-5.97	-7.84/-3.77	-3.97/-2.07	-2.54/-14.06	-13.64/-2.60	-1.91/-7.23	-9.30/-1.17	-5.95/-2.80	-0.47/0.99	1.20/-0.45	-1.58/-0.30	-3.85/-5.89	-4.51/-7.53	-9.53/-9.06	-5.58/-8.00
Θ(120°)	-4.74/-7.07	-7.53/-3.73	-3.10/-6.77	-5.55/-4.71	-9.18/-4.09	-4.11/-2.23	-6.19/-9.15	-7.93/-9.36	-9.37/-8.92	-9.54/-8.55	-8.72/-7.39	-5.50/-4.06	-1.40/-10.79	-9.16/-6.38	-3.25/-7.03	-1.52/-2.62	-8.25/-5.72	-2.92/-0.30	-1.91/-9.54	-8.57/-4.56	-2.46/-6.02	-9.46/-8.67	-10.51/-13.04	-5.01/-6.43
Θ(127.5°)	-8.67/-14.04	-8.47/-6.32	-5.84/-6.01	-7.32/-8.09	-9.74/-7.34	-10.23/-7.72	-7.61/-11.85	-8.24/-10.39	-6.58/-7.40	-8.99/-8.15	-8.35/-6.73	-3.75/-2.79	-3.47/-12.33	-7.68/-6.43	-2.51/-3.90	-6.36/-1.96	-10.20/-7.17	-1.20/-2.89	-3.04/-11.86	-7.86/-6.46	-3.32/-6.34	-8.82/-6.26	-8.34/-4.74	-1.37/-4.25
Θ(135°)	-10.44/-13.47	-15.33/-15.02	-7.94/-5.14	-5.23/-7.51	-11.84/-9.06	-8.34/-9.33	-10.58/-11.20	-9.39/-6.63	-5.15/-5.61	-6.79/-9.27	-9.04/-5.58	-3.69/-2.90	-6.50/-11.78	-8.42/-4.05	-2.14/-4.19	-8.01/-3.58	-3.24/-3.52	-5.87/-2.75	-6.06/-10.86	-6.32/-6.05	-5.17/-6.31	-8.60/-8.66	-7.21/-2.84	-3.40/-10.56
Θ(142.5°)	-6.55/-6.28	-3.88/-5.67	-12.47/-6.97	-5.80/-7.63	-8.45/-10.20	-10.93/-10.39	-7.26/-4.82	-5.35/-6.94	-6.56/-6.46	-6.61/-6.65	-6.85/-4.25	-2.76/-2.86	-5.00/-14.87	-8.29/-4.05	-3.30/-4.48	-4.09/-4.05	-6.20/-9.43	-5.65/-7.77	-10.43/-13.35	-6.54/-9.41	-7.78/-6.15	-5.57/-9.84	-8.43/-9.57	-6.85/-5.04
Θ(150°)	-10.39/-6.79	-5.63/-6.60	-13.45/-10.87	-7.02/-4.31	-3.03/-4.25	-9.10/-10.64	-7.01/-4.64	-3.57/-5.47	-10.86/-12.16	-9.30/-6.52	-3.45/-1.29	-1.32/-3.05	-4.22/-8.31	-14.05/-12.01	-8.49/-2.94	-1.84/-0.84	-2.62/-5.28	-6.90/-5.83	-4.73/-8.02	-13.36/-11.35	-7.89/-7.63	-5.99/-6.24	-8.49/-8.53	-8.88/-11.28
Θ(157.5°)	-11.91/-7.74	-5.58/-4.94	-6.14/-7.90	-8.16/-6.79	-4.57/-3.88	-5.45/-7.69	-7.09/-4.64	-3.20/-3.04	-3.12/-4.30	-3.86/-3.46	-2.88/-2.38	-3.43/-6.01	-8.84/-15.38	-15.1										

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 $\Theta(0-180)\Phi(270)$

