

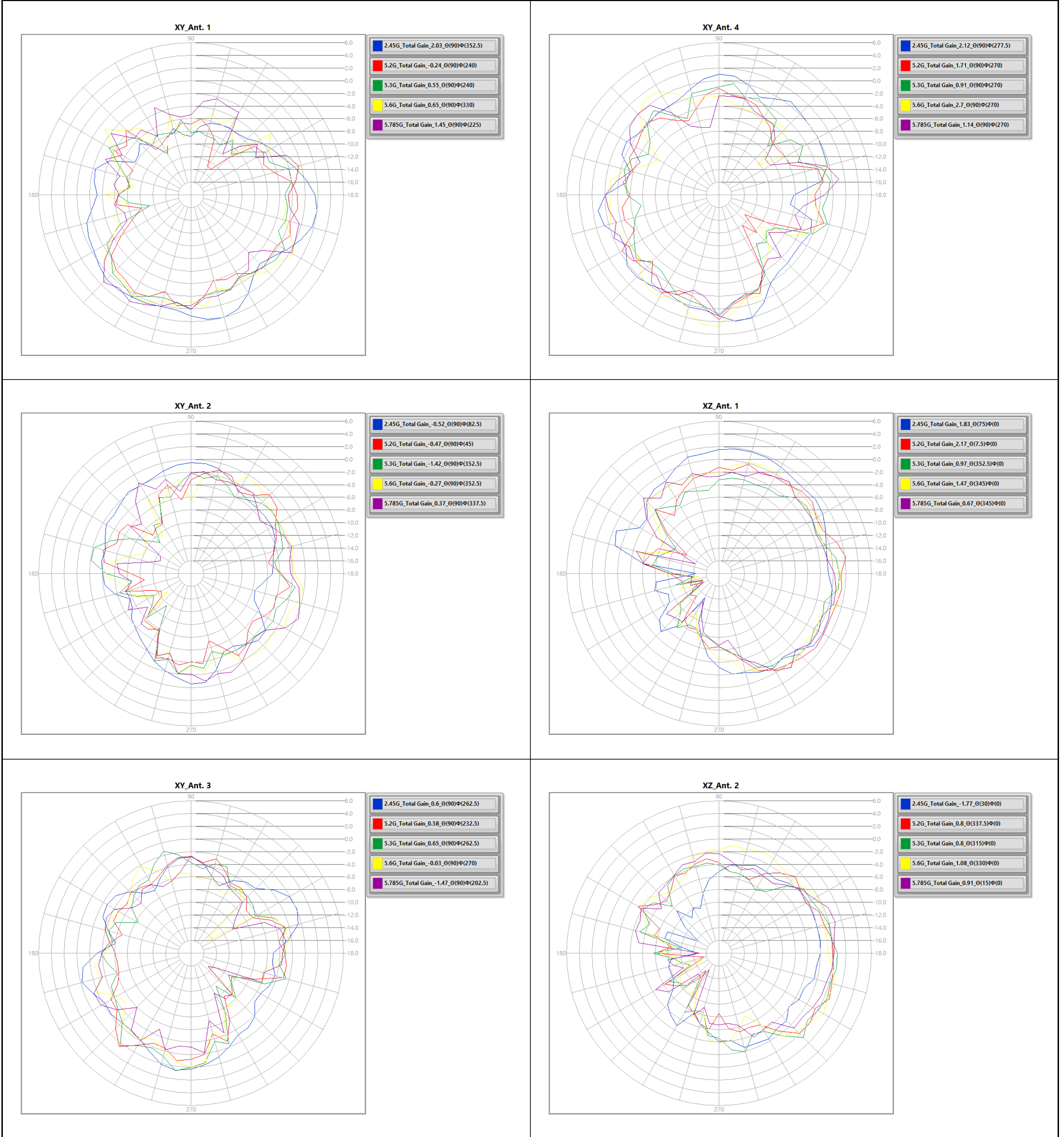


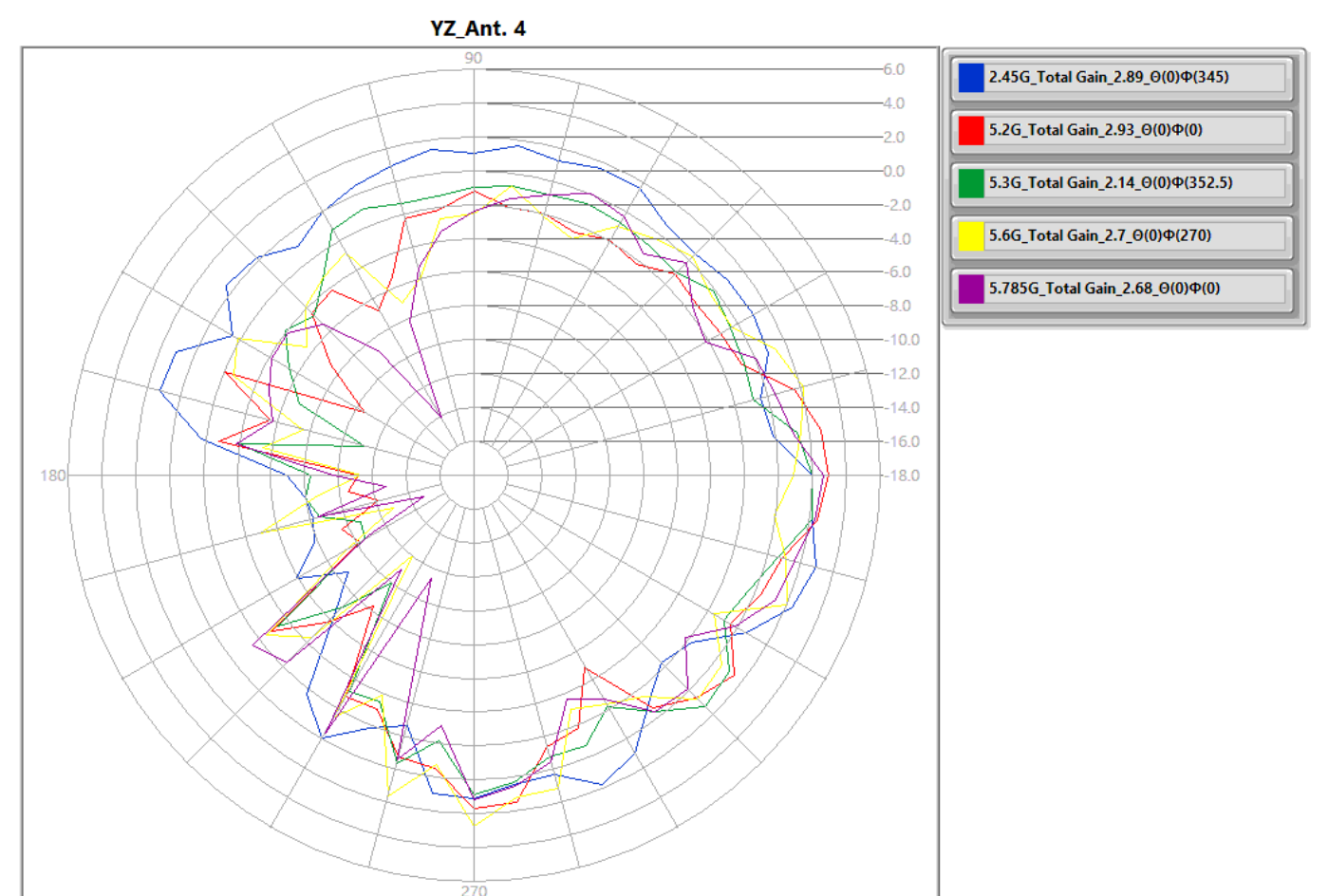
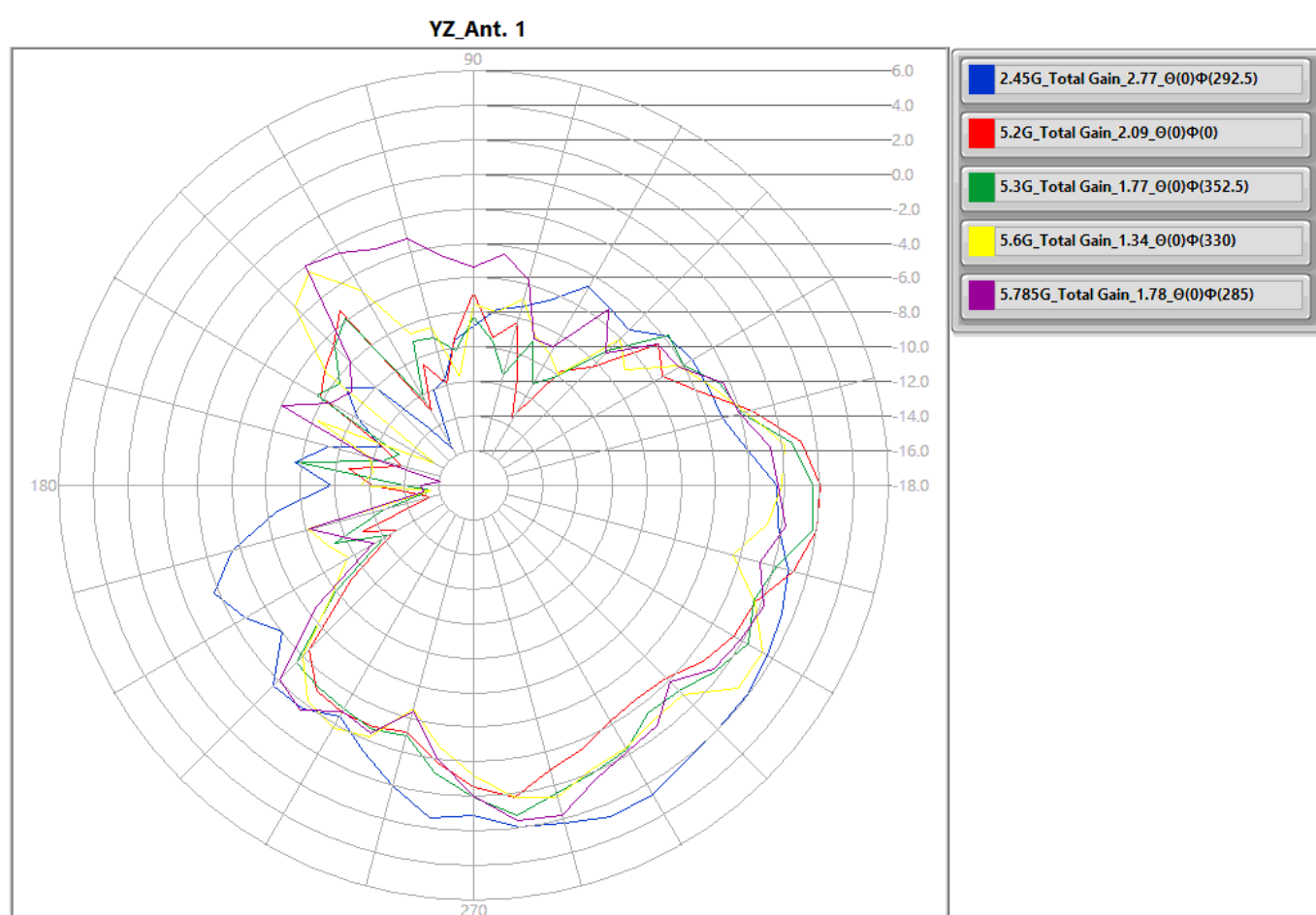
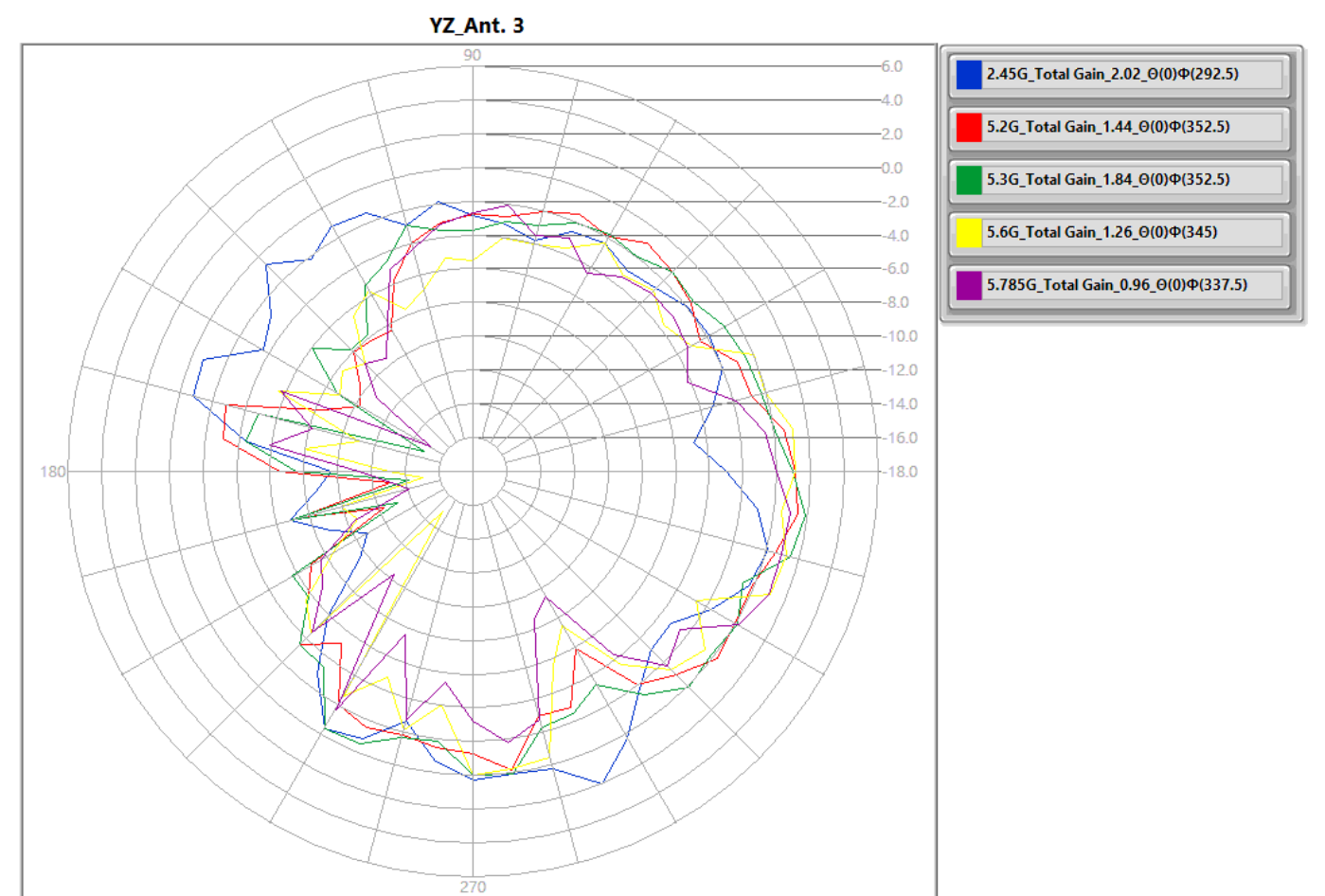
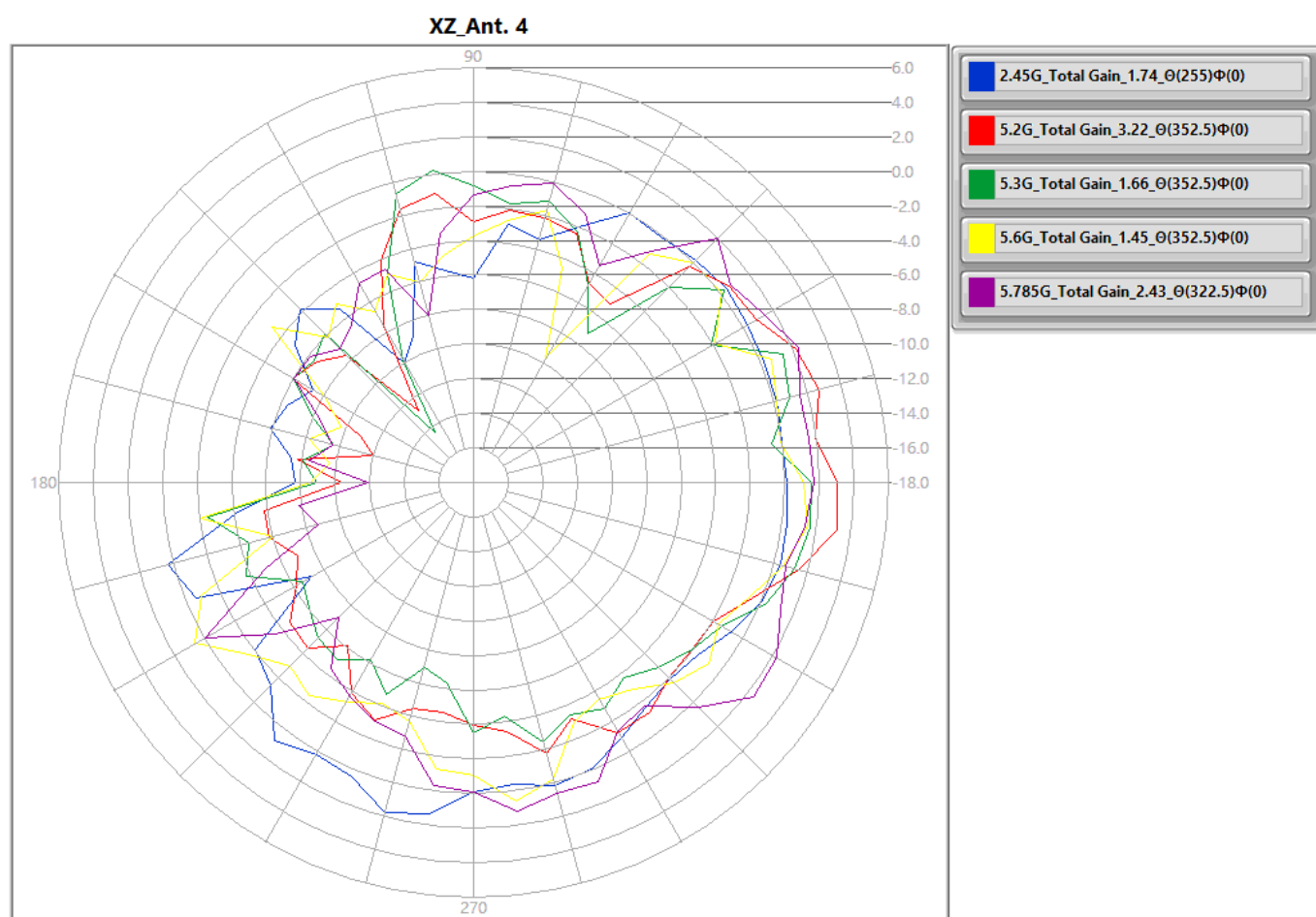
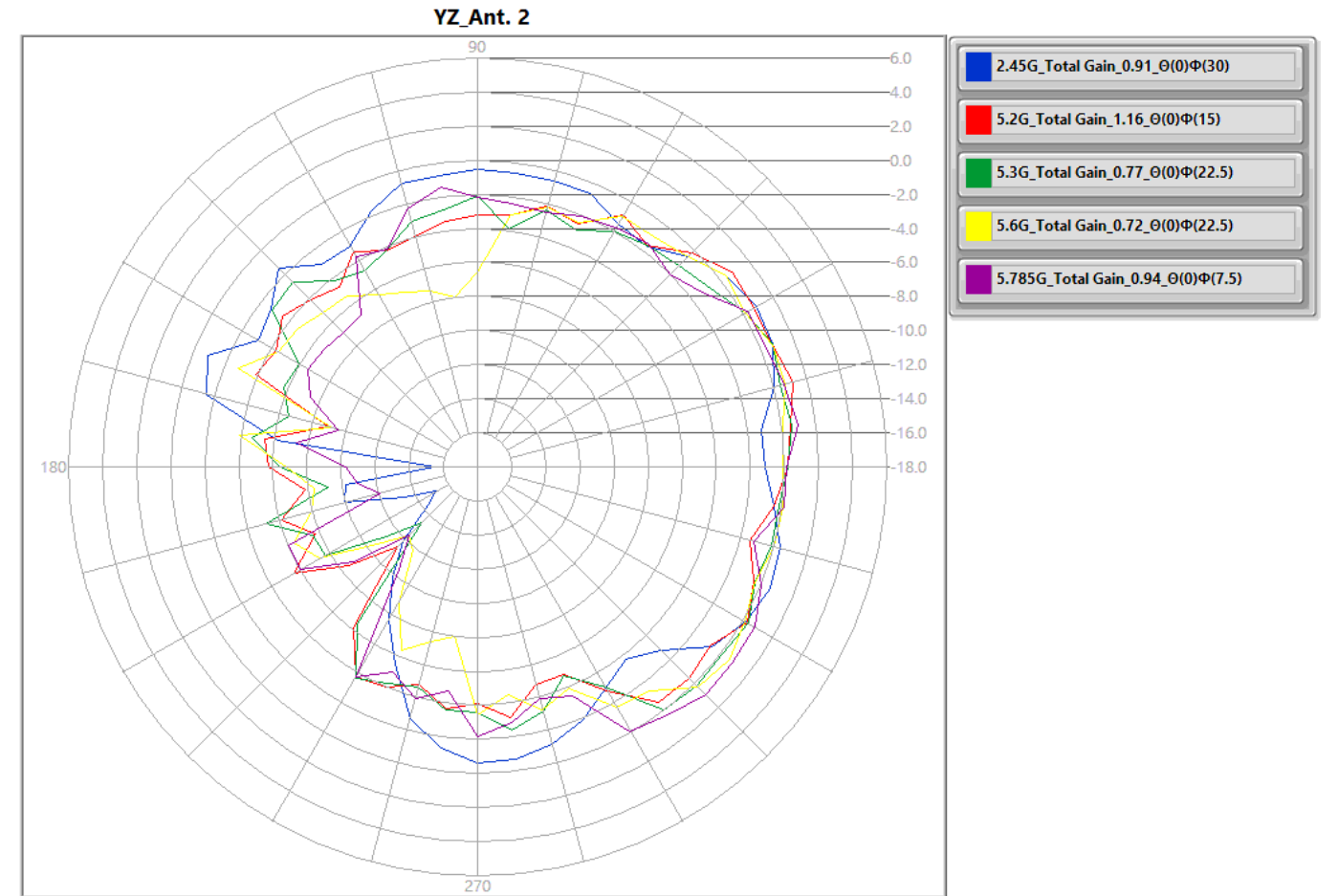
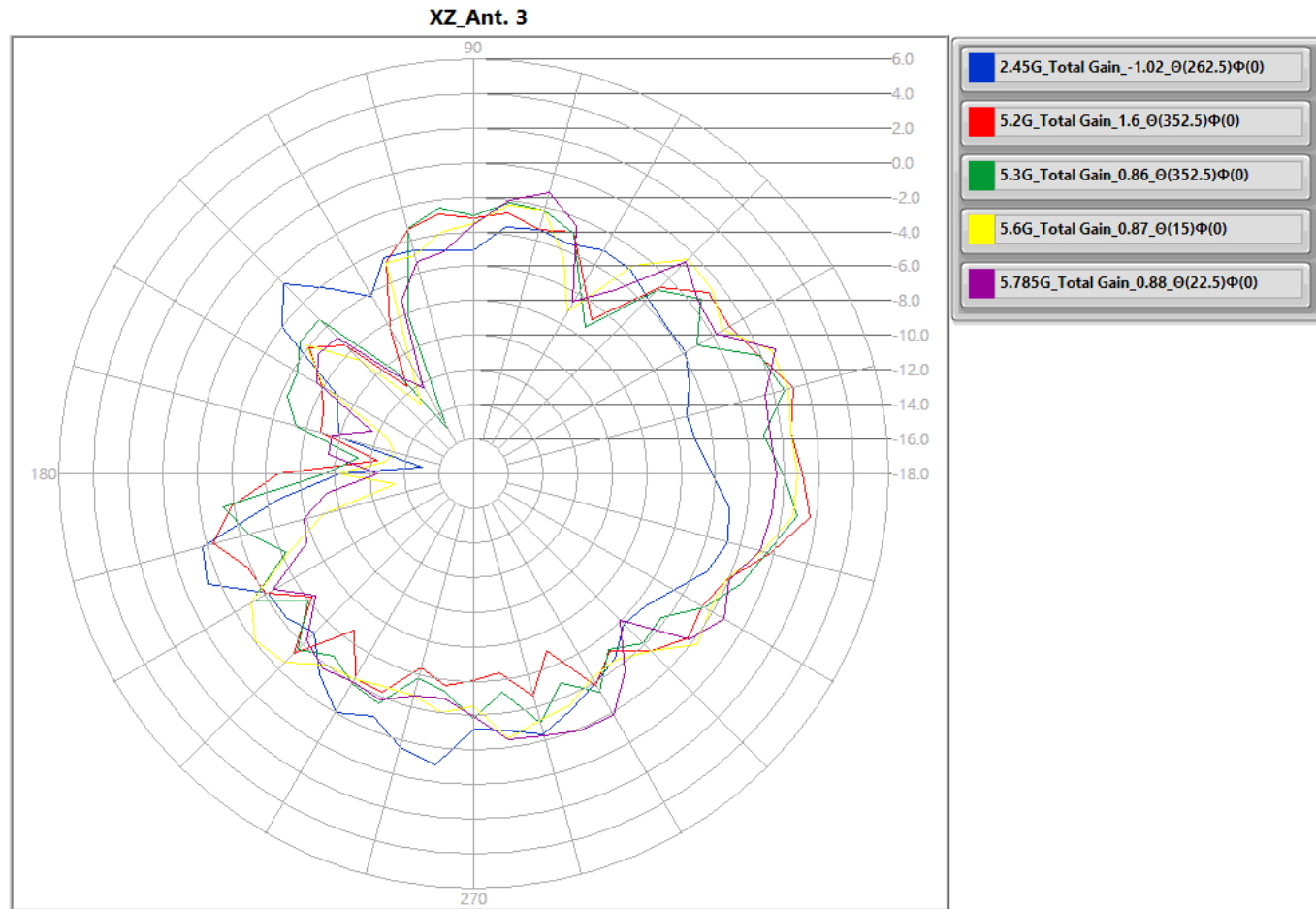
Antenna Pattern of 2.4GHz&5GHz

Appendix C

Θ (172.5°)	-7.73/-6.87	-6.80/-6.16	-5.20/-4.71	-4.35/-3.84	-3.49/-3.14	-3.01/-2.94	-2.78/-2.85	-3.50/-3.26	-2.62/-2.82	-3.54/-3.19	-3.26/-3.96	-3.75/-4.36	-5.76/-7.28	-8.15/-9.43	-8.95/-7.00	-5.03/-3.93	-3.60/-4.14	-5.53/-8.09	-10.54/-11.29	-10.66/-9.55	-8.45/-8.18	-6.76/-5.78	-6.61/-6.14	-5.10/-6.64
Θ (180°)	-10.35/-10.46	-10.07/-10.15	-9.71/-10.40	-9.24/-9.47	-9.72/-9.56	-10.07/-10.96	-11.13/-10.44	-9.89/-9.82	-10.58/-11.95	-12.04/-12.19	-12.69/-12.58	-13.12/-15.74	-15.63/-14.55	-12.60/-10.42	-8.57/-7.37	-6.94/-7.05	-8.05/-10.14	-13.07/-13.68	-10.89/-8.86	-6.97/-5.73	-5.53/-5.87	-5.73/-6.26	-7.28/-7.46	-7.87/-8.96
Freq(Hz)	5.3G/Pol.	Total/Ant. 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°)	1.57/2.12	2.16/1.83	1.83/1.99	2.19/2.03	1.91/1.85	1.88/2.17	1.98/1.50	1.65/1.81	1.14/0.62	0.78/0.51	0.25/0.62	0.58/0.37	0.84/1.43	1.41/1.11	1.16/1.41	1.56/1.47	1.41/1.35	1.39/1.72	1.77/1.34	1.26/1.14	0.66/0.85	1.22/1.17	1.20/1.78	1.97/1.54
Θ (7.5°)	-0.64/-0.04	0.32/0.41	0.65/0.75	0.97/0.83	0.86/0.92	0.66/0.84	1.26/1.13	0.73/1.07	1.41/1.15	1.29/1.32	1.01/1.35	1.96/1.72	1.66/2.42	2.69/2.59	2.58/2.81	2.79/2.77	2.60/2.53	2.35/2.29	2.14/1.75	1.60/1.74	1.23/0.11	0.30/0.90	0.39/0.00	0.16/-0.09
Θ (15°)	0.95/0.47	0.37/0.48	0.44/-0.09	-0.57/-1.32	-1.47/-1.46	-1.77/-1.44	-0.89/-0.69	-0.76/-0.64	-0.02/0.22	-0.04/0.36	0.82/0.30	0.35/0.96	1.20/1.35	1.63/1.93	2.29/2.46	2.48/2.43	2.33/2.17	1.79/1.22	0.59/0.14	0.26/0.43	0.55/0.33	0.10/0.23	0.89/1.15	0.88/0.83
Θ (22.5°)	1.42/0.99	0.78/0.61	-0.48/-2.07	-3.67/-3.59	-2.40/-1.78	-1.36/-0.76	-0.72/-0.59	-0.54/-0.72	-0.42/-0.50	-0.70/-0.25	-0.03/-0.51	-0.38/-0.22	0.31/0.23	0.47/0.75	0.73/0.35	0.50/1.07	1.31/1.37	1.27/0.48	-0.41/-0.90	-0.55/0.35	1.31/1.71	1.75/1.52	1.20/0.60	0.28/1.04
Θ (30°)	-2.13/-1.55	-1.40/-1.44	-2.32/-2.39	-2.01/-1.72	-1.49/-1.32	-0.52/-0.25	-0.54/-0.46	-1.00/-1.20	-0.96/-1.14	-1.35/-0.96	-0.91/-1.13	-0.65/-0.65	-1.42/-1.29	-1.12/-1.45	-0.78/-0.49	-0.48/-0.72	-1.66/-1.64	-1.27/-1.02	-0.94/-0.66	-0.37/-0.49	-0.29/0.42	0.70/0.85	0.80/0.48	-0.73/-2.14
Θ (37.5°)	0.25/-1.05	-2.42/-5.03	-4.68/-2.15	-1.35/-0.76	-0.30/-0.64	-0.36/-0.28	-0.12/-0.30	-1.18/-2.51	-3.20/-2.65	-2.23/-2.06	-1.25/-0.80	-0.14/-0.54	-2.11/-1.90	-1.60/-1.97	-2.01/-1.67	-0.94/-1.23	-2.00/-1.10	0.25/1.05	1.05/0.81	1.11/1.48	0.82/-1.62	-2.42/-1.47	-0.38/0.28	0.37/0.67
Θ (45°)	-2.08/-2.24	-2.30/-3.54	-3.94/-2.65	-1.73/-1.33	-0.76/-0.85	-0.70/-1.20	-1.10/-1.33	-1.85/-2.26	-2.24/-2.80	-2.82/-1.95	-1.84/-2.71	-2.87/-2.18	-2.38/-2.07	-2.86/-1.08	0.25/0.53	-0.37/-1.14	-0.65/1.04	1.35/1.48	2.22/2.16	0.21/-1.25	-1.95/-2.23	-0.68/-0.21	-1.13/-1.54	
Θ (52.5°)	-7.17/-9.34	-5.73/-4.20	-2.49/-1.18	-2.06/-2.08	-2.09/-0.47	-0.92/-1.47	-0.97/-0.75	-1.74/-2.79	-3.09/-3.76	-3.56/-2.26	-2.43/-2.06	-2.50/-5.05	-3.75/-2.67	-2.24/-0.61	-2.05/-1.49	-1.54/-0.41	-1.89/-2.57	-1.24/-0.01	-0.40/-1.15	0.14/1.71	1.28/-0.32	-1.08/-1.56	-1.52/-1.62	-5.90/-7.97
Θ (60°)	-4.76/-8.18	-12.05/-8.28	-5.38/-1.67	-1.35/-2.39	-3.10/-1.08	-0.70/-0.72	-0.74/-1.27	-2.06/-2.52	-2.51/-2.71	-3.16/-1.77	-0.88/-1.64	-2.36/-3.31	-2.90/-3.04	-3.11/-1.84	-1.53/-1.30	-2.41/-1.34	-3.24/-6.71	-5.87/-1.89	-2.19/-3.78	-2.83/-1.90	-1.93/-0.77	-0.97/-2.62	-3.69/-4.17	-4.93/-8.06
Θ (67.5°)	-2.28/-2.96	-4.78/-8.52	-9.14/-5.29	-3.17/-1.99	-2.62/-0.54	-1.33/-0.28	-0.61/-0.62	-0.34/-1.71	-1.86/-1.43	-2.59/-2.71	-1.08/-1.15	-1.40/-1.85	-3.42/-2.72	-3.89/-2.01	-2.07/-1.75	-3.39/-3.07	-4.92/-8.84	-5.10/-1.05	-0.73/-2.27	-3.64/-6.54	-5.92/-6.66	-1.30/-5.02	-5.98/-3.57	-1.83/-2.40
Θ (75°)	-1.13/0.16	-1.69/-5.14	-5.25/-5.32	-5.20/-3.57	-1.92/-0.44	-1.76/-0.29	-0.83/-0.35	-1.06/-4.43	-3.52/-1.58	-2.93/-2.64	-1.43/-2.68	-6.16/-4.73	-6.09/-4.65	-2.53/-1.45	-3.13/-2.55	-3.82/-3.90	-7.95/-5.73	-2.20/-8.56	-4.98/-1.03					
Θ (82.5°)	-1.71/-0.06	-0.63/-4.51	-4.27/-4.30	-5.35/-2.67	-1.99/-0.87	-1.75/0.43	-0.80/-0.90	-1.49/-4.54	-3.05/-1.66	-2.91/-4.44	-3.14/-2.61	-3.02/-4.01	-4.33/-5.06	-3.79/-3.91	-3.17/-0.96	-1.75/-3.91	-5.11/-3.19	-3.56/-1.33	0.26/-0.88	0.25/-1.36	-4.80/-5.63	-3.31/-6.51	-4.66/-0.45	-1.03/-0.48
Θ (90°)	-0.87/-0.33	-1.30/-4.45	-2.71/-3.74	-7.18/-3.08	-2.57/-1.61	-2.11/-0.28	-0.98/-1.38	-1.43/-4.97	-3.58/-1.21	-2.04/-4.37	-5.16/-3.16	-2.57/-3.25	-3.48/-5.65	-4.41/-3.44	-2.64/-1.55	-2.82/-2.97	-2.06/-0.94	0.91/-0.97	-1.57/-1.94	-3.41/-8.37	-0.30/-5.02	-7.34/-8.60	-7.53/-1.97	-0.33/-1.55
Θ (97.5°)	0.24/-0.92	-3.88/-5.58	-2.49/-5.07	-4.99/-2.18	-1.94/-1.02	-2.60/-0.24	-1.38/-2.39	-2.50/-5.19	-3.00/-0.81	-2.49/-7.46	-5.25/-3.76	-3.69/-5.18	-6.30/-4.73	-2.64/-2.93	-5.47/-2.10	-1.75/-3.89	-6.49/-0.89	0.45/-1.05	0.21/-6.32	-4.08/-6.46	-4.69/-13.23	-6.54/-9.53	-8.27/-4.40	-2.68/-2.06
Θ (105°)	-0.67/-3.39	-4.84/-6.72	-5.00/-5.29	-4.24/-2.40	-3.91/-2.21	-1.46/-0.84	-1.37/-2.35	-1.95/-4.54	-3.99/-2.60	-4.12/-5.78	-5.11/-2.80	-3.32/-6.95	-6.95/-5.34	-2.51/-1.94	-4.58/-4.04	-2.89/0.39	-4.62/-4.75	0.21/1.23	-0.40/-3.40	-6.33/-13.78	-10.60/-13.45	-10.17/-13.56	-8.19/-8.76	-5.19/-2.71
Θ (112.5°)	-4.95/-4.59	-6.74/-8.83	-5.43/-5.88	-3.58/-4.34	-4.63/-2.32	-1.14/-0.93	-0.99/-2.91	-4.13/-5.16	-5.10/-4.53	-8.09/-6.59	-2.66/-3.02	-3.54/-6.83	-4.72/-2.78	-4.06/-4.84	-2.87/-3.92	-2.69/-0.04	-1.75/-5.29	-5.94/-3.96	-3.53/-7.91	-7.10/-6.01	-5.56/-4.78	-6.29/-8.47	-8.52/-9.57	-6.37/-4.47
Θ (120°)	-0.89/-9.40	-0.86/-7.03	-5.45/-5.31	-4.66/-4.07	-4.60/-4.63	-2.10/-1.55	-1.27/-1.65	-2.72/-3.95	-6.16/-6.58	-5.94/-3.35	-3.23/-2.77	-5.09/-4.52	-3.99/-6.00	-7.91/-6.18		-6.11/-1.12	-6.38/-3.26	-3.22/-3.85	-3.77/-4.44	-3.28/-11.17	-10.88/-10.26	-15.49/-9.16	-8.97/-7.29	
Θ (127.5°)	-14.36/-10.75	-6.46/-6.61	-5.25/-4.98	-4.09/-3.65	-4.32/-7.61	-5.55/-3.74	-3.32/-4.62	-4.65/-4.03	-5.32/-7.49	-7.48/-5.60	-4.54/-3.42	-3.58/-4.93	-5.09/-9.18	-4.55/-1.93	-5.41/-5.00	-2.07/-2.27	-3.80/-2.74	-4.68/-9.02	-9.94/-7.71	-4.71/-5.89	-5.15/-12.24	-13.09/-10.68	-8.21/-13.25	-13.46/-11.05
Θ (135°)	-6.80/-5.95	-6.26/-6.09	-5.05/-5.16	-5.83/-6.31	-4.25/-4.09	-4.43/-4.34	-4.69/-5.18	-4.41/-3.73	-5.19/-7.41	-7.98/-6.62	-5.44/-5.79	-8.06/-6.49	-5.26/-3.93	-4.03/-5.23	-3.79/-5.01	-6.69/-9.41	-2.96/-1.88	-2.86/-5.12	-6.98/-6.23	-9.10/-5.07	-5.29/-6.76	-10.10/-3.77	-7.79/-9.92	-10.66/-11.65
Θ (142.5°)	-6.42/-4.92	-4.03/-4.10	-5.15/-5.95	-6.76/-6.32	-3.70/-4.28	-4.85/-4.67	-3.94/-3.04	-3.35/-3.34	-3.89/-4.35	-6.11/-6.56	-5.07/-6.81	-7.73/-6.37	-5.99/-3.30	-1.31/-3.25	-6.79/-9.26	-9.08/-4.10	-2.96/-1.58	-0.06/-1.77	-3.40/-6.57	-8.79/-5.00	-3.54/-3.86	-4.38/-7.66	-7.77/-6.90	-7.59/-9.38
Θ (150°)	-5.98/-3.80	-4.06/-5.61	-10.74/-9.98	-5.75/-5.26	-6.27/-1.96	-10.15/-7.49	-5.38/-3.77	-3.70/-4.37	-4.09/-3.15	-2.22/-1.44	-1.43/-1.96	-4.22/-6.31	-5.58/-5.91	-5.27/-4.37	-3.61/-6.36	-6.28/-2.72	-1.97/-2.04	-3.75/-8.71	-10.53/-10.15	-14.42/-15.54	-13.95/-14.57	-9.88/-8.26	-7.36/-6.39	-7.94/-6.62
Θ (157.5°)	-7.84/-6.73	-5.67/-4.78	-5.82/-7.63	-8.12/-8.75	-11.18/-11.73	-8.71/-7.08	-6.85/-7.89	-7.41/-6.54	-7.32/-4.73	-4.52/-2.40	-2.26/-2.27	-0.94/-1.28	-3.80/-6.72	-9.13/-3.63	-4.19/-1.99	-0.71/-1.40	-3.81/-6.25	-9.87/-15.12	-10.74/-7.38	-9.35/-14.75	-14.63/-13.16	-10.78/-9.63	-8.16/-7.51	-9.82/-9.40
Θ (165°)	-9.63/-9.04	-6.87/-6.30	-5.30/-3.82	-2.59/-2.24	-2.81/-4.39	-6.26/-9.38	-11.33/-9.96	-7.80/-5.66	-6.49/-6.22	-5.02/-5.84	-7.60/-6.80	-7.51/-8.41	-4.56/-2.52	-1.89/-1.72	-2.55/-4.69	-5.98/-5.83	-5.52/-5.50	-6.14/-6.75	-8.52/-9.58	-9.31/-8.71	-8.52/-7.93	-7.63/-7.86	-7.63/-7.32	-8.15/-8.57
Θ (172.5°)	-8.06/-8.13	-6.38/-5.18	-4.72/-4.11	-3.45/-3.15	-3.26/-3.33	-3.27/-3.82	-4.02/-3.25	-2.76/-3.24	-3.51/-2.32	-1.78/-2.36	-2.10/-2.25	-2.89/-2.68	-2.50/-3.73	-2.73/-7.99	-7.15/-5.39	-4.27/-3.73	-4.58/-5.77	-7.93/-10.71	-11.37/-9.24	-8.54/-7.09	-5.94/-5.93	-5.32/-4.80		
Θ (180°)	-8.94/-8.40	-7.49/-7.31	-7.53/-7.09	-6.82/-6.64	-6.69/-7.09	-7.47/-8.06	-8.35/-7.62	-7.95/-8.56	-8.35/-8.23	-9.13/-8.73	-8.56/-8.92	-9.82/-10.50	-11.99/-14.35	-13.82/-13.02	-10.38/-8.54	-8.02/-8.01	-8.45/-9.87	-11.85/-12.00	-10.55/-8.40	-6.38/-4.70	-4.07/-4.00	-4.21/-4.76	-5.10/-5.76	-6.51/-8.00
Freq(Hz)	5.6G/Pol.	Total/Ant. 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°)	1.06/1.33	1.51/1.17	1.00/0.93	0.99/1.04	0.86/0.58	0.66/0.85	0.86/0.91	0.63/0.47	0.70/0.74	0.52/0.49	0.42/0.53	0.64/0.66	0.83/1.03	1.29/1.33	1.23/1.16	1.43/1.55	1.77/2.12	1.80/0.88	0.69/1.53	1.94/1.68	1.63/1.29	1.06/1.56	1.52/1.48	2.07/1.68
Θ (7.5°)	-0.10/0.22	0.84/0.87	0.85/0.93	1.10/1.27	1.13/1.07	1.70/1.82	1.45/1.44	1.75/1.79	1.58/1.71	1.74/1.55	1.43/1.33	1.34/1.57	1.45/1.23	1.25/1.36	1.22/1.16	1.27/1.23	1.05/1.00	1.96/0.75	-0.06/-0.12	0.91/0.92	0.39/0.77	1.00/0.94	0.93/0.35	0.59/0.75
Θ (15°)	0.12/-0.33	0.30/0.48	0.88/1.14	1.56/1.62	0.98/1.16	1.32/1.48	2.19/2.44	2.02/1.76	1.43/0.98	0.89/0.97	0.64/0.34	0.48/0.60	0.55/0.65	0.50/0.53	0.42/0.35	0.43/0.66	1.14/1.50	1.55/1.28	1.05/0.78	-0.02/-1.15	-1.27/-1.61	-2.65/-2.27	-1.71/-2.03	-0.60/0.82
Θ (22.5°)	0.69/0.88	1.43/2.02	2.34/2.25	2.02/1.19	0.37/0.47	0.32/0.96	1.32/1.05	0.58/0.03	-0.45/-0.01	0.77/0.93	0.60/0.69	0.56/-0.24	-0.74/-0.78	-0.58/-0.17	0.40/0.61	0.71/0.78	0.94/1.18	1.59/1.90	2.00/1.67	0.92/-0.35	-0.97/-0.52	-0.45/-1.64	-1.41/-1.03	-1.36/0.25
Θ (30°)	-1.88/-1.99	-0.59/0.17	1.12/1.60	1.89/1.04	0.42/-0.84	-1.83/-0.80	-0.45/-0.15	-0.10/-0.33	-0.54/-0.25															

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)	6.175G/Pol.	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°)	-6.67-4.87	-5.21-6.64	-6.09-5.56	-5.15-5.82	-6.36-6.51	-6.53-7.07	-7.43-7.27	-6.98-6.46	-6.30-6.72	-7.02-6.88	-6.62-6.75	-6.76-7.67	-7.67-6.92	-6.82-7.14	-7.33-7.14	-7.57-7.64	-7.81-8.64	-9.03-8.61	-8.71-9.40	-9.37-9.00	-8.85-8.51	-8.13-7.91	-7.17-6.35	-7.56-7.99
Θ(7.5°)	-7.12-7.18	-5.94-5.98	-6.02-5.54	-5.36-6.48	-7.64-7.65	-7.26-7.49	-7.97-8.02	-8.25-8.09	-7.91-8.07	-8.06-7.72	-6.67-6.57	-5.66-6.16	-6.19-5.39	-4.90-4.86	-5.01-5.56	-5.75-5.30	-6.38-5.66	-6.08-6.40	-5.98-6.21	-6.35-7.09	-7.42-6.52	-5.98-6.11		
Θ(15°)	-5.60-6.21	-6.10-4.67	-3.80-4.01	-4.22-4.21	-5.11-6.66	-8.18-9.25	-8.84-7.51	-6.04-4.63	-3.78-3.14	-2.74-2.50	-2.34-2.74	-2.85-2.63	-2.64-2.90	-2.70-2.31	-2.60-3.60	-4.62-5.25	-5.40-5.54	-6.09-6.43	-7.45-8.04	-7.94-7.30	-6.51-6.44	-6.21-5.77	-5.30-5.56	-5.81-5.65
Θ(22.5°)	-7.38-8.02	-7.19-6.32	-5.10-4.21	-4.81-6.35	-8.22-8.97	-6.83-4.48	-3.56-3.24	-3.75-4.42	-4.37-3.49	-2.37-2.68	-2.52-2.12	-2.28-3.15	-4.01-4.57	-4.85-5.24	-5.46-4.78	-4.16-4.27	-4.98-5.37	-5.52-4.96	-4.44-4.88	-5.76-6.01	-5.92-5.55	-5.90-6.66		
Θ(30°)	-6.38-7.17	-8.57-8.12	-7.05-5.51	-4.19-3.14	-3.80-5.57	-5.65-4.86	-3.31-2.81	-2.60-2.14	-2.19-2.60	-3.23-3.34	-2.54-1.53	-1.61-2.15	-1.80-2.28	-3.89-3.85	-2.89-2.59	-2.99-3.25	-3.32-3.03	-3.01-3.80	-4.55-4.20	-3.58-2.95	-2.52-2.83	-4.02-5.84	-7.46-7.82	-7.40-7.11
Θ(37.5°)	-6.62-9.52	-9.90-7.79	-6.92-5.79	-4.55-3.62	-4.05-4.20	-3.97-4.30	-4.78-4.54	-4.03-2.93	-2.35-2.25	-2.57-4.17	-4.20-3.56	-4.44-3.54	-3.07-4.99	-6.33-5.68	-4.74-3.43	-2.03-1.37	-1.53-1.73	-2.06-2.43	-2.56-2.83	-2.55-2.09	-2.69-4.59	-6.43-6.84	-6.51-6.21	-6.54-5.66
Θ(45°)	-4.32-6.28	-11.03-7.06	-4.94-5.68	-5.30-4.28	-5.08-5.46	-4.99-5.84	-6.58-5.55	-4.31-1.87	-0.80-1.05	-0.93-1.19	-2.18-1.34	-1.65-1.63	-1.63-1.68	-2.72-5.71	-4.31-2.47	-0.860-23	0.20-0.47	0.290-29	0.100-21	-0.67-0.80	-1.44-2.39	-2.44-3.21	-5.59-6.78	-5.46-4.84
Θ(52.5°)	-5.09-5.86	-7.95-8.51	-4.23-4.43	-7.26-6.55	-7.33-8.16	-6.58-6.73	-7.95-8.16	-5.98-5.21	-0.88-0.43	-0.49-0.32	-1.49-0.81	-0.48-1.08	-2.61-3.71	-5.31-6.00	-1.82-0.27	0.37-0.17	0.211-09	0.85-0.63	-1.43-1.76	-2.04-2.09	-1.61-1.20	-1.60-3.17	-5.22-4.95	-4.77-5.15
Θ(60°)	-6.96-7.84	-6.31-6.41	-5.29-5.73	-7.29-7.90	-10.02-9.73	-8.54-8.64	-9.54-8.35	-6.51-4.28	-3.17-1.98	-0.94-1.85	-3.32-3.71	-3.92-4.60	-6.47-10.15	-7.82-4.69	-2.90-0.69	-0.19-2.52	-2.57-1.27	-0.09-0.03	-0.35-0.29	-0.50-0.47	0.061-00	-0.48-0.76	-3.36-4.11	-4.04-5.45
Θ(67.5°)	-9.44-9.62	-7.66-5.89	-5.67-6.97	-7.95-9.84	-13.39-12.99	-10.91-9.43	-8.51-8.96	-7.56-6.27	-5.89-3.09	-0.56-1.78	-0.95-1.80	-3.20-5.13	-5.78-7.46	-3.69-2.11	-0.56-0.52	-1.84-4.49	-4.47-1.16	-0.02-0.64	0.530-49	0.330-63	-0.50-0.1	0.49-1.58	-4.37-4.72	-5.44-6.01
Θ(75°)	-7.24-9.96	-8.99-6.17	-6.82-9.19	-6.58-8.77	-12.12-11.33	-11.06-8.54	-7.02-7.62	-10.46-9.63	-9.17-6.47	-1.97-2.60	-1.19-0.16	-1.36-1.29	-3.61-6.36	-3.29-0.94	-1.15-0.57	-0.38-3.83	-3.09-0.63	0.501-12	1.27-0.05	1.50-0.85	-1.39-0.15	1.15-1.00	-3.71-6.94	-6.48-5.59
Θ(82.5°)	-5.74-9.80	-9.65-6.16	-8.36-10.61	-6.45-9.00	-14.11-9.10	-7.04-5.14	-4.06-4.05	-7.28-9.13	-7.52-7.83	-3.45-3.75	-1.58-1.34	-3.11-1.47	-3.29-6.19	-4.06-0.95	-1.47-1.54	0.030-19	2.74-8.0	2.73-3.21	2.60-0.91	-1.80-0.01	1.63-0.73	-4.19-6.82	-5.94-4.36	
Θ(90°)	-6.57-7.80	-8.85-7.34	-7.55-6.55	-6.28-7.03	-10.46-8.20	-5.25-2.54	-2.78-2.91	-4.78-7.51	-5.65-7.27	-3.87-4.83	-2.74-3.68	-5.16-3.95	-3.15-6.89	-7.08-3.15	-3.49-3.00	-0.94-0.47	1.01-1.88	2.07-1.88	2.30-2.72	1.92-0.63	-1.23-0.50	1.13-1.31	-3.56-7.04	-6.24-4.93
Θ(97.5°)	-5.18-6.45	-6.97-6.06	-6.98-4.91	-6.19-5.78	-8.28-7.17	-4.98-1.99	-2.08-1.94	-4.72-8.39	-4.82-7.25	-4.88-6.08	-4.08-4.55	-7.41-6.84	-4.92-8.20	-9.24-5.09	-7.80-6.87	-1.73-2.18	-0.80-0.87	0.631-04	-0.40-3.07	-1.37-0.11	0.93-1.38	-2.91-5.65	-5.89-4.08	
Θ(105°)	-5.78-5.76	-7.56-4.64	-6.05-3.42	-3.47-4.26	-5.26-8.80	-5.87-4.87	-3.79-2.77	-5.21-7.29	-6.82-9.47	-6.58-8.97	-6.01-7.98	-7.52-12.18	-7.44-13.26	-9.09-7.33	-8.11-12.55	-3.89-5.79	-2.95-1.81	-5.96-4.23	-1.33-0.26	-1.58-4.54	-1.60-0.04	0.81-2.80	-4.32-6.39	-6.34-4.32
Θ(112.5°)	-5.61-4.52	-6.22-4.19	-4.07-2.69	-2.33-5.08	-6.73-9.21	-8.62-7.56	-6.77-5.40	-7.75-9.22	-15.44-9.60	-8.74-11.28	-10.31-9.55	-5.13-10.20	-9.17-15.21	-8.83-9.45	-7.55-8.59	-6.03-6.56	-4.52-6.36	-4.93-2.99	-1.86-0.22	-2.82-6.36	-3.33-0.52	-0.59-2.52	-4.57-6.24	-7.40-6.60
Θ(120°)	-3.72-4.68	-4.09-3.29	-1.94-2.69	-1.70-2.57	-5.62-10.02	-8.42-8.23	-8.25-10.08	-9.16-8.60	-12.51-9.06	-9.28-11.60	-9.18-5.02	-3.14-7.66	-9.87-9.50	-5.92-9.81	-8.28-4.10	-3.76-4.99	-4.09-8.76	-6.50-7.90	-5.22-8.54	-3.16-0.98	-0.55-6.52	-6.61-8.69	-7.49-7.62	
Θ(127.5°)	-4.64-3.61	-2.97-3.37	-2.97-3.06	-2.79-4.29	-5.84-9.40	-11.77-8.64	-7.27-5.50	-8.64-10.75	-11.29-9.05	-7.69-8.56	-8.63-7.09	-4.70-10.41	-6.37-10.67	-6.31-10.67	-6.46-5.98	-4.80-11.14	-14.23-7.00	-6.83-9.06	-6.56-5.80	-4.92-9.02	-5.64-2.92	-2.49-5.94	-8.88-13.58	-9.42-6.21
Θ(135°)	-2.29-2.24	-3.06-3.89	-2.70-3.73	-4.25-5.28	-7.54-9.43	-8.96-11.42	-10.86-6.99	-5.95-8.23	-8.76-7.53	-6.11-7.35	-10.37-13.06	-11.99-12.30	-11.24-9.57	-7.35-7.39	-9.68-7.71	-9.10-12.26	-7.73-4.57	-9.29-15.84	-12.34-6.47	-7.72-8.22	-5.50-5.55	-4.67-6.80	-7.23-7.98	-5.26-2.03
Θ(142.5°)	-2.64-4.43	-3.83-4.46	-4.48-3.08	-4.05-5.02	-6.83-9.05	-6.91-5.04	-6.80-7.40	-5.85-5.36	-7.06-9.63	-9.47-7.69	-9.09-13.16	-9.80-7.97	-6.34-7.68	-9.71-9.68	-9.99-11.47	-7.92-5.40	-4.27-5.53	-10.60-9.00	-5.41-4.24	-4.63-3.66	-4.77-7.26	-7.91-7.10	-11.58-9.80	-6.37-2.39
Θ(150°)	-5.63-4.76	-4.36-3.74	-4.36-3.40	-5.68-5.60	-6.38-5.60	-5.96-6.63	-6.70-1.07	-7.73-5.88	-6.31-8.06	-6.49-9.66	-6.10-13.93	-5.20-10.42	-6.99-9.66	-6.27-11.14	-11.95-9.92	-6.27-4.29	-4.99-3.60	-15.61-14.20	-8.50-6.40	-4.88-3.63	-4.52-6.60	-10.67-11.74	-10.47-10.18	-11.40-10.16
Θ(157.5°)	-5.80-4.53	-6.63-9.09	-9.23-9.97	-10.22-8.66	-8.74-10.25	-10.57-7.66	-6.91-7.71	-8.10-7.32	-7.11-8.90	-10.87-11.52	-12.18-11.51	-12.38-15.10	-15.62-15.15	-15.18-13.83	-12.36-11.47	-10.72-11.38	-13.67-13.50	-12.01-9.45	-7.71-7.75	-9.01-8.07	-7.58-8.19	-8.49-10.20	-10.46-8.75	-9.21-8.90
Θ(165°)	-7.11-6.78	-6.93-6.80	-6.60-6.78	-7.28-8.24	-8.79-8.78	-9.08-8.12	-7.78-8.60	-9.99-11.05	-12.59-14.63	-14.40-13.26	-13.21-12.65	-10.69-13.30	-10.95-12.70	-16.38-11.77	-8.63-7.76	-9.07-11.75	-14.81-13.47	-13.41-11.47	-10.78-10.65	-10.83-10.28	-9.45-9.51	-9.46-8.49	-8.05-8.81	-8.90-8.44
Θ(172.5°)	-7.96-8.21	-7.50-6.87	-6.86-7.35	-7.33-8.11	-9.60-10.73	-11.20-11.79	-12.68-12.94	-12.44-12.37	-12.75-13.25	-13.49-14.25	-12.76-13.56	-13.42-13.22	-13.98-15.26	-16.10-14.33	-12.28-11.62	-11.92-11.72	-12.92-12.11	-11.75-10.88	-10.09-10.27	-9.96-9.78	-9.81-9.02	-7.42-6.65	-7.30-7.44	
Θ(180°)	-9.55-9.52	-10.30-9.93	-9.49-9.05	-8.68-9.08	-10.27-11.72	-13.30-14.73	-15.67-14.58	-13.89-12.64	-11.72-11.71	-11.74-12.12	-12.03-11.62	-11.72-11.74	-10.22-8.90	-9.09-9.23	-8.93-8.71	-8.94-9.76	-10.15-9.88	-10.13-10.22	-10.11-10.37	-10.73-10.95	-10.65-10.15	-9.80-9.64	-10.23-10.16	-10.33-9.63
Freq(Hz)	6.475G/Pol.	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°)	-5.51-7.92	-8.90-9.33	-8.89-8.72	-9.03-9.07	-9.03-8.66	-8.83-9.09	-8.84-8.54	-8.59-8.03	-7.14-6.85	-6.53-6.73	-6.83-6.77	-6.29-6.11	-6.20-6.34	-6.27-6.18	-6.33-6.50	-6.57-6.48	-6.32-6.35	-6.45-6.37	-6.59-6.96	-7.42-7.57	-8.05-8.27	-8.64-8.40	-7.57-7.16	-8.21-9.04
Θ(7.5°)	-5.92-5.83	-5.30-5.32	-5.73-5.48	-4.49-4.37	-4.86-5.16	-5.65-6.85	-7.80-7.86	-8.01-7.82	-7.32-7.28	-7.13-6.94	-7.29-7.52	-7.26-7.41	-7.95-8.05	-7.67-7.81	-8.28-8.83	-8.92-8.67	-8.35-8.42	-8.53-7.95	-7.67-7.04	-7.35-7.04	-6.53-6.17	-6.17-5.95	-5.76-5.99	-5.52-5.54
Θ(15°)	-7.02-6.11	-4.79-5.12	-4.99-3.79	-3.17-3.50	-4.18-4.72	-5.87-7.59	-9.14-8.62	-7.95-6.03	-4.68-3.71	-2.72-3.27	-2.27-2.52	-2.76-3.09	-3.22-3.51	-3.93-4.44	-4.80-5.30	-6.47-7.69	-8.91-10.11	-11.14-11.70	-11.19-10.72	-10.01-9.16	-8.37-7.62	-6.17-6.22	-5.67-6.73	
Θ(22.5°)	-4.52-3.34	-3.61-4.45	-4.80-5.04	-5.01-4.85	-4.62-5.30	-5.99-7.58	-7.66-5.89	-4.63-3.47	-2.84-2.64	-2.60-3.19	-3.90-4.30	-3.95-3.64	-3.67-4.15	-4.53-6.09	-5.94-6.22	-6.11-5.57	-5.29-5.17	-5.17-5.55	-5.23-4.59	-4.16-4.04	-5.09-6.42	-7.53-8.10	-7.58-7.18	-6.85-5.42
Θ(30°)	-8.02-6.27	-5.29-5.91	-8.67-6.19	-6.72-4.72	-3.69-4.84	-6.43-8.04	-9.21-6.88	-5.71-5.25	-4.51-5.45	-4.32-3.64	-2.81-2.42	-2.13-2.44	-2.74-3.68	-5.42-4.68	-5.77-4.74	-4.70-4.84	-4.80-4.80	-5.41-6.17	-6.07-4.76	-3.81-3.92	-5.09-7.28	-9.61-9.80	-8.48-7.78	-7.55-8.21
Θ(37.5°)	-4.98-4.82	-6.68-6.78	-6.10-6.15	-6.49-6.34	-5.96-5.85	-6.87-7.14	-5.99-4.79	-5.27-5.59	-4.98-5.42	-3.80-2.86	-2.55-3.15	-4.40-3.71	-9.53-7.75	-4.72-3.61	-3.89-4.17	-6.49-5.59	-6.49-5.00	-3.44-2.60	-6.07-4.60	-3.97-4.97	-5.31-5.90	-7.67-8.09	-6.12-5.30	
Θ(45°)	-5.40-5.43	-4.9																						



Antenna Pattern of 6GHz

Appendix D

Θ(22.5°)	-0.92/-1.68	-2.42/-2.57	-3.10/-3.92	-3.98/-4.56	-5.47/-5.00	-4.46/-4.17	-4.95/-6.76	-7.12/-5.95	-5.32/-5.15	-6.17/-6.11	-5.32/-4.26	-3.48/-2.65	-2.61/-1.80	-1.02/-0.93	-0.46/-0.30	0.49/0.71	1.03/0.75	-0.17/-0.65	-1.55/-3.89	-5.98/-4.22	-1.65/-0.26	1.45/-1.62	1.45/0.94	0.45/-0.14
Θ(30°)	-2.36/-3.31	-2.12/-1.76	-3.72/-5.31	-5.21/-6.29	-7.95/-9.70	-10.66/-12.43	-12.06/-11.18	-8.97/-8.07	-6.64/-5.87	-6.31/-4.74	-1.76/-1.21	-2.04/-2.26	-2.15/-0.54	1.13/-1.28	0.97/-1.38	1.35/0.81	0.82/-1.47	1.60/-1.55	1.03/-0.14	-1.72/-2.20	-1.99/-1.94	-1.27/-0.64	0.50/-1.20	0.70/-0.88
Θ(35°)	-3.90/-3.52	-2.39/-3.52	-3.72/-4.85	-6.30/-10.76	-8.33/-7.12	-10.42/-11.61	-10.36/-9.24	-8.49/-7.47	-6.54/-5.47	-2.82/-2.12	-1.61/-1.73	-2.29/-2.71	-1.71/-0.59	1.17/-1.48	0.91/-0.70	1.32/-0.63	1.26/-1.28	1.48/-0.88	0.26/-0.43	-0.82/-1.09	-2.46/-4.33	-4.41/-1.59	-0.10/-0.70	-0.88/-1.53
Θ(45°)	-1.53/-3.71	-3.62/-3.09	-5.22/-6.76	-6.83/-8.16	-6.81/-5.75	-5.30/-5.99	-7.05/-6.88	-8.96/-10.83	-8.15/-4.62	-1.45/-0.94	-2.37/-2.50	-1.39/-1.83	-0.55/-1.50	3.02/-2.22	1.59/0.95	0.08/-0.65	-0.40/-0.25	-0.30/0.84	1.46/0.56	-0.19/-1.10	-2.52/-3.71	-3.94/-2.74	-1.55/0.08	0.50/-0.03
Θ(52.5°)	-4.43/-4.83	-5.81/-7.55	-9.51/-9.35	-8.53/-9.23	-4.88/-5.47	-3.77/-3.64	-3.26/-3.27	-4.92/-3.97	-4.76/-6.23	-2.70/-3.23	-5.13/-1.59	-0.12/-0.58	0.66/-2.33	3.19/-2.75	1.41/0.94	1.16/-1.14	0.58/-0.75	0.55/0.93	-0.15/-0.66	-3.31/-1.14	-0.73/-3.14	-4.64/-2.57	-0.50/-1.07	0.90/-2.20
Θ(60°)	-5.18/-6.02	-5.63/-6.61	-10.23/-11.59	-9.42/-5.28	-1.89/-2.04	-2.15/-2.68	-0.86/-0.98	-0.85/-1.00	-0.58/-4.06	-3.11/-4.53	-7.04/-3.66	-0.87/0.42	1.65/-1.95	-2.65/-1.03	0.79/0.71	0.49/-0.53	-1.61/-1.33	-0.85/-1.06	-2.32/-2.09	-0.82/-2.51	-3.04/-3.18	-0.68/-0.40	-1.11/-4.84	
Θ(67.5°)	-4.41/-5.43	-6.21/-7.04	-6.82/-7.17	-6.47/-2.33	-1.48/-1.28	-0.21/-1.47	0.45/-0.39	0.38/0.80	0.45/-2.87	-3.92/-7.41	-6.16/-3.73	-2.76/-1.82	-2.55/-1.30	1.81/-1.89	-4.49/-2.55	-0.19/0.09	-1.34/-2.68	-1.81/-1.20	1.34/0.76	-1.02/-1.67	0.16/-0.84	-4.08/-3.85	-0.99/-0.75	-2.98/-4.70
Θ(75°)	-3.91/-5.67	-8.43/-7.73	-5.81/-4.59	-4.19/-0.36	-0.94/-1.60	-0.67/-1.67	0.61/-0.46	0.29/1.04	1.03/-157	4.09/-5.49	-4.00/-2.98	-2.09/-5.09	-3.98/0.62	1.91/-0.04	-4.22/-2.05	0.51/-0.03	-1.03/-0.20	0.07/0.25	2.73/0.53	1.02/-2.03	-0.78/-0.61	-4.21/-3.77	-1.66/-2.97	-4.68/-8.82
Θ(82.5°)	-4.06/-4.89	-7.76/-8.23	-5.52/-3.81	-2.48/-6.44	0.45/0.01	-1.96/-4.01	-0.38/-1.73	-1.35/-0.26	0.50/-1.49	-2.65/-0.43	-3.34/-3.27	-1.04/-0.94	-6.35/-0.14	0.54/-0.16	-3.58/-0.81	1.51/0.55	0.52/0.47	0.502/67	4.30/4.20	2.37/-1.08	-0.06/-0.73	-2.77/-4.95	-2.17/-4.20	-6.04/-4.12
Θ(90°)	-3.79/-4.54	-9.42/-8.95	-6.41/-4.93	-1.97/0.36	0.86/-0.11	-2.32/-3.04	-1.32/-1.45	-2.74/-2.58	-0.74/-1.65	-2.06/-2.29	-4.51/-5.52	-2.10/-3.31	-6.56/-0.97	-2.71/-0.92	-5.97/-2.17	0.69/0.93	1.16/2.78	2.19/4.43	4.90/4.63	3.47/-0.52	-2.20/-1.63	-3.68/-6.16	-2.38/-7.05	-7.51/-6.00
Θ(97.5°)	-4.87/-4.88	-11.23/-11.49	-9.60/-7.32	-2.65/-0.21	0.54/-0.83	-3.56/-2.85	-2.53/-3.26	-4.30/-4.14	-3.16/-3.96	-3.01/-5.30	-6.65/-7.86	-3.44/-5.92	-6.41/-2.52	-7.14/-3.88	-8.27/-6.42	-3.82/-0.92	0.08/1.24	0.48/2.12	1.79/-3.84	-2.33/-0.84	-3.76/-7.02	-2.56/-5.07	-6.32/-6.04	
Θ(105°)	-5.42/-9.10	-12.23/-13.46	-14.52/-11.68	-4.17/0.81	-0.13/-0.79	-3.13/-1.28	-0.30/-1.00	-6.28/-6.89	-6.89/-5.67	-4.96/-4.94	-6.59/-8.69	-5.24/-8.12	-5.25/-5.62	-8.65/-7.43	-6.38/-7.57	-8.19/-5.09	-3.66/-2.39	-3.62/-0.18	1.56/0.40	-0.93/-6.20	-2.63/-1.57	-4.79/-3.54	-2.06/-2.66	-6.22/-4.99
Θ(112.5°)	-3.56/-8.40	-13.12/-14.95	-14.93/-13.57	-8.06/-3.14	-1.60/-1.54	-3.43/-2.32	-4.26/-4.55	-9.34/-12.38	-8.99/-10.16	-5.14/-8.31	-7.19/-11.45	-9.08/-7.75	-7.77/-5.92	-7.27/-6.23	-6.12/-7.61	-2.70/-2.33	-5.82/-6.96	-7.07/-3.09	-1.17/-1.96	-4.33/-7.02	-2.11/-1.00	-4.57/-4.59	-1.84/-0.79	-3.66/-3.76
Θ(120°)	-1.53/-5.96	-8.86/-13.87	-8.23/-6.05	-5.67/-3.30	-1.25/-2.20	-5.14/-6.73	-8.46/-8.07	-7.56/-10.79	-5.74/-7.30	-6.69/-12.00	-11.68/-7.30	-6.66/-8.60	-10.94/-5.75	-7.06/-7.20	-0.41/-0.12	-4.59/-4.74	-4.61/-4.54	-8.52/-4.66	-5.83/-4.67	-2.85/-0.17	-0.94/-3.49	-0.32/0.05	-0.87/-2.03	
Θ(127.5°)	-1.76/-3.52	-5.01/-8.87	-11.93/-11.97	-13.39/-9.66	-6.67/-7.35	-3.61/-2.56	-3.70/-4.87	-9.67/-7.93	-7.50/-9.30	-7.16/-6.84	-7.70/-11.64	-8.40/-8.68	-10.15/-4.47	-9.76/-6.03	-9.95/-9.92	-1.46/-6.51	-0.77/-2.20	-5.24/-6.67	-5.96/-4.07	-5.51/-4.82	-2.85/-4.40	-1.22/-2.30	1.22/-2.33	-0.21/-2.72
Θ(135°)	-1.47/-3.39	-2.77/-4.59	-7.88/-11.68	-15.16/-10.79	-6.37/-4.76	-6.77/-7.58	-5.25/-4.13	-6.61/-9.45	-8.58/-9.18	-8.43/-7.17	-5.80/-11.32	-14.57/-12.24	-10.77/-8.68	-7.55/-4.02	-2.94/-4.17	-7.78/-9.62	-3.81/-7.07	-7.95/-4.36	-4.77/-2.60	-3.51/-2.56	-3.79/-6.83	-2.46/-2.11	1.35/-1.68	1.11/-1.58
Θ(142.5°)	-2.05/-1.98	-2.97/-3.88	-6.17/-7.44	-11.85/-12.13	-11.78/-8.90	-6.44/-7.35	-8.88/-8.71	-7.97/-8.55	-7.21/-7.93	-8.61/-10.08	-8.95/-10.58	-8.39/-8.17	-11.33/-14.21	-6.47/-4.85	-4.72/-3.84	-7.97/-7.80	-4.51/-3.92	-5.09/-5.05	-8.74/-8.56	-6.70/-5.37	-5.47/-7.02	-3.29/-2.03	0.66/0.25	0.31/-2.16
Θ(150°)	-5.62/-4.56	-4.66/-4.86	-7.88/-8.03	-7.18/-9.44	-11.01/-10.08	-7.94/-7.26	-7.42/-9.28	-8.80/-8.11	-8.21/-8.68	-9.67/-7.54	-7.42/-10.52	-15.22/-15.37	-15.59/-12.47	-9.02/-7.09	-6.90/-8.10	-9.33/-7.29	-6.62/-0.05	-11.16/-11.57	-8.38/-7.48	-11.72/-7.69	-4.84/-6.67	-4.84/-3.35	-3.74/-3.71	-5.54/-6.36
Θ(157.5°)	-6.80/-7.00	-5.84/-5.26	-4.62/-4.03	-4.14/-4.39	-4.54/-6.08	-7.21/-5.58	-4.87/-5.71	-7.84/-8.32	-7.25/-6.83	-6.43/-7.59	-7.34/-7.99	-9.86/-13.50	-15.41/-14.73	-10.20/-6.84	-6.51/-9.72	-12.49/-11.66	-10.99/-12.51	-15.32/-11.81	-5.76/-4.29	-5.70/-7.37	-6.67/-6.60	-6.90/-6.87	-7.45/-5.92	-5.22/-6.24
Θ(165°)	-4.01/-3.47	-5.32/-6.01	-6.49/-7.43	-7.86/-8.88	-9.03/-8.10	-6.66/-6.28	-6.16/-6.12	-5.74/-5.62	-5.61/-5.67	-6.39/-9.54	-13.75/-14.15	-14.08/-14.56	-13.20/-9.74	-6.85/-7.58	-4.36/-4.85	-5.97/-6.11	-6.63/-6.89	-9.27/-4.48	-4.11/-3.56	-4.12/-3.98	-2.43/-0.69	-0.11/-0.99	-2.19/-2.64	-2.44/-3.15
Θ(172.5°)	-5.64/-6.64	-7.31/-8.66	-9.04/-9.63	-10.54/-9.38	-8.58/-8.38	-8.20/-8.34	-8.18/-8.06	-9.53/-11.61	-13.56/-14.96	-15.23/-15.02	-14.04/-12.71	-13.44/-12.59	-11.58/-11.17	-11.10/-9.50	-8.42/-8.06	-6.49/-5.57	-4.89/-4.43	-4.25/-4.20	-5.95/-5.96	-5.33/-4.17	-3.32/-3.17	-3.80/-4.07	-4.37/-5.30	
Θ(180°)	-4.49/-4.15	-4.85/-5.10	-5.02/-4.92	-4.79/-4.34	-4.37/-4.85	-6.24/-7.87	-9.00/-9.90	-8.96/-6.88	-5.45/-4.68	-4.77/-5.70	-5.97/-6.87	-4.66/-7.83	-8.61/-7.53	-6.78/-6.77	-6.79/-6.52	-6.99/-7.51	-6.97/-6.76	-6.99/-7.42	-7.26/-7.07	-6.77/-6.27	-4.73/-4.93	-5.21/-5.19	-4.98/-5.09	
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°)	-10.16/-10.31	-10.73/-9.81	-9.49/-10.38	-9.11/-7.64	-7.67/-8.20	-8.09/-8.50	-9.56/-10.41	-8.77/-7.85	-8.15/-8.34	-8.80/-9.03	-9.31/-6.68	-8.18/-8.45	-8.52/-8.25	-8.89/-8.57	-9.82/-10.19	-10.24/-9.68	-10.08/-11.14	-11.59/-10.59	-9.68/-9.60	-9.57/-9.75	-10.01/-10.50	-11.88/-11.61	-10.82/-10.17	-11.00/-11.41
Θ(7.5°)	-5.25/-5.55	-4.62/-4.55	-4.76/-4.92	-5.59/-5.56	-5.01/-4.47	-4.52/-4.74	-5.08/-6.15	-7.23/-7.63	-7.80/-8.05	-7.92/-7.50	-6.81/-6.36	-5.68/-6.74	-4.62/-4.96	-4.51/-3.80	-4.00/-4.63	-4.31/-4.22	-4.92/-5.84	-6.82/-7.71	-7.83/-7.78	-7.07/-6.29	-5.35/-6.49	-4.73/-4.64	-4.35/-4.08	-3.85/-3.86
Θ(15°)	-5.28/-5.08	-4.28/-4.61	-4.07/-4.34	-4.87/-3.91	-2.84/-2.37	-2.91/-4.22	-5.44/-6.55	-7.32/-8.51	-4.28/-3.04	-2.55/-2.40	-2.69/-3.73	-5.08/-5.52	-5.24/-4.46	-3.86/-3.19	-2.54/-2.26	-1.85/-1.46	-0.96/-0.75	-1.27/-2.60	-3.28/-3.11	-2.35/-1.47	-0.87/-0.80	-1.16/-1.59	-2.33/-2.52	-2.76/-3.96
Θ(22.5°)	-3.60/-3.20	-2.90/-3.11	-3.20/-4.92	-4.74/-6.25	-4.97/-5.13	-6.83/-9.36	-11.82/-15.29	-11.99/-7.66	-5.55/-4.69	-4.53/-5.01	-6.64/-7.23	-6.90/-6.46	-4.89/-3.72	-3.62/-3.34	-3.13/-2.51	-1.58/-1.21	-0.23/-0.85	-0.97/-2.04	-3.55/-3.99	-2.56/-0.50	-0.46/-0.44	-0.77/-1.23	-1.73/-3.28	-2.81/-3.58
Θ(30°)	-4.68/-0.48	-3.19/-2.69	-3.11/-5.12	-7.23/-7.95	-10.74/-12.37	-14.02/-13.08	-11.40/-11.22	-13.28/-15.52	-15.66/-12.32	-8.34/-5.36	-3.43/-2.35	-2.77/-3.64	-3.21/-3.04	-2.57/-3.18	-0.87/-0.79	-0.34/-0.01	-0.19/-0.31	-0.26/-0.19	-0.26/-1.54	-2.81/-1.82	-1.76/-1.92	-1.26/-0.02	-0.52/-1.96	-3.30/-4.28
Θ(37.5°)	-4.42/-5.12	-5.49/-5.21	-4.68/-6.45	-8.67/-10.08	-10.89/-7.48	-8.07/-7.29	-5.57/-5.12	-7.90/-11.23	-11.79/-10.52	-7.37/-4.70	-4.17/-7.39	-2.88/-2.88	-3.43/-1.99	-0.80/-0.48	-0.55/0.20	0.70/0.34	0.85/0.74	-0.42/-0.34	0.06/-0.49	-2.41/-2.34	-1.54/-1.08	-0.29/0.44	-1.12/-2.09	-3.13/-4.02
Θ(45°)	-4.10/-6.26	-7.21/-6.69	-6.36/-6.99	-7.50/-8.87	-6.34/-5.71	-6.05/-5.44	-5.63/-4.34	-3.81/-3.91	-5.19/-7.91	-5.52/-3.70	-3.78/-2.39	-1.28/-0.53	-1.82/-0.31	0.08/-1.79	2.48/0.89	-6.64/-1.02	-0.70/-0.87	-0.08/-1.68	-0.60/-1.33	-0.63/-1.09	-1.03/-0.17	-0.59/0.26	-0.62/-2.57	
Θ(52.5°)	-7.15/-8.95	-8.28/-8.10	-8.78/-7.68	-8.80/-6.58	-4.36/-3.66	-7.02/-6.61	-3.17/-2.52	-4.32/-3.81	-2.75/-2.39	-2.98/-3.47	-5.40/-3.11	-1.64/-2.00	-1.69/-0.95	-0.33/-1.67	1.53/0.36	0.12/0.15	-2.24/-1.06	1.65/-1.59	1.34/-0.61	-1.39/0.21	-0.97/-2.56	-1.49/0.25	0.49/0.48	-0.84/-3.13
Θ(60°)	-6.46/-6.31	-5.77/-8.76	-10.01/-7.42	-4.86/-4.30	-3.03/-4.91	-5.27/-7.42	-5.02/-2.38	-2.97/-2.40	-1.48/-0.97	-3.28/-3.14	-5.92/-6.00	-3.99/-3.29	-2.36/-1.51	-0.92/-1.71	-0.59/-0.80	-1.98/-0.84	-1.54/-3.22	-0.63/-1.00	-0.66/-0.66	-1.18/-1.35	0.51/-1.76	-1.52/-1.04	-0.29/-2.46	-4.32/-3.89
Θ(67.5°)	-6.38/-6.04	-4.30/-6.64	-10.07/-3.95	-3.59/-2.98	-0.40/-4.32	-4.48/-9.60	-4.75/-2.73	-1.03/-0.58	-4.58/-6.68	-4.75/-2.73	-1.03/-0.58	-4.58/-6.68	-4.75/-2.73	-1.03/-0.58	-4.58/-6.68	-4.75/-2.73	-1.03/-0.58	-4.58/-6.68	-4.75/-2.73	-1.03/-0.58	-4.58/-6.68	-4.75/-2.73	-1.03/-0.58	-4.58/-6.68
Θ(75°)	-3.89/-6.82	-4.91/-6.92	-7.74/-3.77	-2.71/-2.12	-0.49/-3.54	-11.04/-8.47	-8.02/-4.73	-6.96/-6.11	-2.59/-2.00	-4.27/-1.31	-6.87/-4.23	-2.60/-1.91	-2.96/-2.99	-0.07/-2.18	-3.74/-2.26	-0.72/-3.82	-2.27/0.17	-1.28/1.06	2.16/2.22	0.30/0.73	-1.51/-0.24	-3.22/-1.67	-2.73	



Antenna Pattern of 6GHz

Appendix D

Θ(75°)	-1.19/-0.41	0.22/-1.41	-1.95/-1.04	-0.34/0.57	1.21/2.41	2.80/1.75	2.77/3.24	3.95/3.34	2.41/3.62	2.88/1.32	0.18/-2.06	-3.50/-1.89	-1.93/-5.36	-6.99/-6.10	-6.35/-4.85	-4.65/-6.74	-3.05/-2.37	-0.80/-0.13	-0.24/-2.42	-2.53/-3.04	-9.39/-4.77	-2.68/-2.76	-7.25/-2.83	-0.41/0.73
Θ(82.5°)	-2.14/-1.12	-1.09/-2.82	-2.74/-1.04	0.04/-0.83	-1.08/1.50	1.76/-0.21	1.08/2.08	3.25/2.52	2.42/3.66	3.20/1.88	-0.27/-2.27	-1.99/-1.64	-2.67/-6.06	-7.04/-6.80	-7.51/-5.16	-5.97/-5.59	-4.72/-2.16	-0.10/0.85	1.15/-0.62	-1.63/-2.69	-4.60/-3.94	-0.94/-2.51	-8.99/-2.41	-0.91/0.00
Θ(90°)	-4.56/-3.38	-2.12/-3.02	-1.41/-1.58	-0.84/-1.49	-0.80/0.14	0.45/-2.42	-0.47/0.95	1.66/1.59	2.20/2.25	3.35/2.38	0.88/2.13	-2.46/-2.53	-0.08/-4.62	-2.65/-9.09	-10.16/-7.83	-4.26/-3.29	-7.71/-4.30	-1.29/-0.70	0.43/-1.11	-2.54/-0.70	-3.26/-4.12	-2.95/-4.03	-1.29/-4.06	-1.93/-1.95
Θ(97.5°)	-6.31/-4.94	-3.45/-4.51	-6.15/-3.42	-1.88/-1.49	-4.01/-2.22	-1.08/-3.62	-2.88/-1.29	-0.01/0.93	1.25/2.11	2.10/0.94	-1.32/-3.57	-3.97/-4.63	-5.99/-6.79	-8.32/-14.70	-5.64/-4.64	-3.82/-2.51	-5.62/-8.28	-5.06/-2.30	-3.27/-5.76	-4.45/-4.33	-4.05/-6.73	-5.86/-5.69	-9.37/-8.84	-9.25/-7.46
Θ(105°)	-8.76/-6.19	-4.58/-5.17	-7.27/-3.42	-2.42/-0.73	-1.67/-3.23	-0.95/-1.06	-3.70/-2.42	-0.74/-0.27	-0.65/0.41	0.59/0.12	-0.67/-3.16	-4.95/-5.66	-1.17/-7.65	-7.41/-6.90	-4.39/-3.14	-1.55/-2.47	-6.80/-5.85	-7.10/-7.00	-2.64/-3.16	-5.68/-6.81	-7.75/-5.55	-12.53/-7.21	-13.30/-5.61	-9.49/-10.00
Θ(112.5°)	-9.16/-6.11	-3.60/-4.30	-5.07/-3.53	-4.49/-2.51	-1.70/-1.29	-1.60/-0.25	-1.47/-1.47	-1.27/-0.09	0.03/0.19	-0.79/-1.37	-1.43/-1.56	-4.82/-6.10	-8.75/-11.01	-10.30/-3.64	-1.37/-1.44	-0.30/0.77	-2.32/-6.00	-3.39/-6.14	-1.78/-4.35	-2.65/-2.37	-9.12/-2.95	-4.43/-14.54	-9.33/-3.44	-8.93/-8.29
Θ(120°)	-10.48/-9.74	-4.95/-4.99	-3.25/-4.03	-8.81/-4.95	-0.18/-0.51	-2.00/-0.10	-0.96/-1.03	-1.20/0.53	-0.43/-0.87	-1.63/-2.43	-1.50/-0.52	-1.85/-4.95	-6.81/-6.83	-4.57/-4.85	-1.96/-2.18	1.89/3.09	-3.02/-7.81	-3.66/-2.13	-3.71/-5.38	-3.64/-1.49	-3.60/-4.40	-1.36/-11.24	-7.30/-5.05	-7.01/-7.97
Θ(127.5°)	-4.68/-9.99	-15.43/-10.14	-5.48/-3.85	-3.40/-5.50	-1.88/-0.81	-1.26/-0.13	0.73/0.03	-3.09/-1.00	0.99/0.46	-1.20/-2.40	-2.17/-1.59	-3.07/-3.68	-4.90/-2.90	-2.15/-2.79	-1.10/0.51	0.77/-1.86	-1.66/-2.60	-2.80/-3.00	-3.16/-4.44	-1.81/0.88	-0.33/-10.75	-5.64/-4.75	-2.81/-5.62	-13.14/-8.35
Θ(135°)	-6.01/-10.57	-10.25/-13.48	-10.10/-3.28	-2.69/-7.88	-6.83/-2.57	-3.32/-4.36	-2.23/-0.79	-2.32/-2.76	-0.36/-0.06	0.24/-0.69	-1.84/-3.13	-3.52/-8.77	-2.39/-1.35	-0.88/-2.09	-1.85/-1.40	-1.34/-5.30	-3.68/-1.69	-1.65/-0.58	-4.85/-5.38	-4.45/-1.74	-2.73/-7.16	-7.83/-6.42	-1.78/-2.07	-4.33/-6.61
Θ(142.5°)	-8.10/-8.22	-10.44/-9.17	-7.98/-5.17	-4.71/-6.63	-6.59/-4.29	-5.36/-8.90	-6.24/-3.33	-2.84/-3.02	-1.64/-1.66	-1.75/-0.99	-1.76/-2.54	-1.50/-0.81	0.27/-0.10	-0.94/-3.60	-4.88/-6.05	-5.98/-4.44	-3.59/-2.89	-6.17/-2.47	-7.46/-12.20	-8.54/-2.49	-1.85/-3.13	-8.61/-8.84	-4.47/-2.29	-4.27/-8.00
Θ(150°)	-13.93/-15.48	-10.99/-9.17	-9.13/-14.87	-12.94/-9.19	-8.96/-9.76	-9.60/-7.87	-6.13/-6.12	-6.76/-5.66	-3.82/-2.95	-2.50/-2.12	-1.58/-0.92	-0.87/-1.44	-1.22/-1.58	-2.37/-1.60	-2.58/-6.91	-8.45/-7.87	-3.55/-1.70	-2.92/-3.21	-3.09/-5.15	-5.36/-3.99	-2.52/-2.18	-3.50/-4.48	-4.70/-4.01	-5.55/-8.00
Θ(157.5°)	-9.14/-9.70	-10.02/-9.68	-9.96/-9.87	-8.62/-8.21	-9.37/-11.06	-10.91/-8.49	-7.33/-7.35	-6.68/-3.38	-9.90/0.19	-4.08/-1.28	-1.07/-1.35	-2.81/-2.89	-1.63/-1.88	-2.59/-2.27	-2.71/-3.70	-4.75/-6.14	-6.97/-7.16	-5.42/-2.59	-2.36/-4.99	-8.80/-9.77	-7.44/-4.40	-4.05/-5.56	-6.65/-7.94	-11.12/-11.75
Θ(165°)	-6.18/-6.15	-7.19/-6.97	-7.77/-8.81	-10.45/-11.77	-13.14/-12.01	-11.07/-10.04	-10.73/-12.35	-11.27/-8.52	-6.66/-5.73	-5.69/-5.44	-4.43/-4.57	-4.61/-3.77	-2.84/-2.07	-1.11/-1.21	-1.76/-2.29	-2.52/-3.36	-4.36/-5.78	-7.06/-6.47	-5.36/-5.78	-8.05/-10.40	-11.46/-13.07	-13.34/-12.55	-13.02/-11.21	-9.46/-7.63
Θ(172.5°)	-11.57/-11.84	-11.52/-11.56	-10.57/-9.01	-8.92/-10.21	-11.33/-12.12	-11.22/-9.80	-8.56/-8.11	-8.55/-8.08	-8.34/-7.79	-7.22/-6.38	-6.19/-5.79	-4.80/-4.69	-3.96/-3.30	-3.15/-3.30	-3.21/-2.85	-3.07/-4.07	-5.36/-7.15	-9.82/-12.30	-14.49/-13.49	-13.02/-11.16	-8.88/-7.59	-7.01/-6.24	-6.59/-7.00	-8.38/-10.79
Θ(180°)	-9.54/-8.95	-8.61/-9.52	-9.94/-9.53	-9.17/-9.84	-9.91/-9.18	-8.09/-7.76	-8.44/-9.03	-9.48/-9.19	-7.96/-7.75	-8.50/-8.64	-8.10/-7.54	-6.97/-6.17	-6.00/-7.42	-7.97/-7.97	-8.67/-9.64	-10.28/-10.13	-9.82/-10.27	-12.86/-15.05	-15.85/-13.09	-10.86/-9.01	-8.29/-8.63	-8.99/-9.52	-10.31/-11.04	-11.10/-9.21
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°)	-2.66/-3.18	-3.18/-3.32	-2.96/-2.52	-2.84/-2.89	-2.28/-1.94	-1.82/-1.73	-1.94/-1.87	-1.14/-0.68	-0.92/-1.10	-1.09/-1.43	-1.61/-1.89	-2.31/-2.10	-1.85/-2.08	-2.61/-2.41	-2.19/-2.12	-2.25/-2.24	-2.07/-1.74	-1.90/-2.20	-2.42/-2.16	-1.17/-0.57	-0.80/-0.96	-1.29/-2.29	-2.49/-1.79	-1.83/-2.17
Θ(7.5°)	-0.85/-1.02	-1.11/-1.20	-1.19/-1.20	-1.41/-1.64	-1.69/-1.72	-2.34/-3.01	-3.44/-3.93	-3.85/-3.40	-2.98/-3.17	-3.64/-3.24	-2.32/-2.74	-2.92/-2.14	-2.37/-2.41	-1.80/-1.82	-2.28/-2.33	-2.33/-2.28	-2.07/-2.11	-2.29/-1.92	-2.26/-2.75	-2.73/-2.27	-1.45/-0.29	-0.04/-0.22	-0.49/-0.86	-0.68/-0.44
Θ(15°)	-1.14/-1.03	-1.25/-1.76	-1.25/-1.76	-3.27/-4.28	-4.54/-4.47	-4.28/-3.47	-4.95/-5.65	-5.43/-5.00	-4.51/-2.49	-4.25/-3.33	-2.79/-3.26	-2.14/-1.52	-1.27/-1.74	-1.78/-1.46	-1.41/-1.65	-1.85/-2.19	-1.84/-1.18	-0.83/-0.34	0.42/0.98	1.29/1.75	1.95/1.65	1.44/0.94	0.50/0.32	
Θ(22.5°)	0.47/-0.02	-0.06/0.08	-0.46/-3.04	-3.06/-3.29	-3.36/-3.02	-3.25/-4.22	-4.59/-4.27	-5.83/-3.94	-3.93/-4.04	-5.05/-5.72	-4.99/-4.19	-4.28/-3.62	-2.41/-1.79	-1.23/-0.85	-0.74/-0.87	-1.74/-4.06	-4.33/-3.25	-1.02/-1.21	1.82/1.85	2.41/2.37	1.54/0.42	0.11/0.64		
Θ(30°)	-3.11/-2.86	-2.96/-2.16	-3.11/-2.73	-1.20/-1.13	-0.63/-0.57	-1.34/-2.21	-3.30/-3.24	-3.12/-3.21	-3.89/-4.57	-5.10/-5.47	-5.09/-5.81	-5.05/-4.95	-5.56/-4.40	-3.58/-2.37	-2.35/-2.33	-3.47/-5.99	-7.50/-6.52	-4.20/-2.83	-2.06/-2.55	-2.38/-1.11	0.91/1.40	1.43/1.72	2.20/2.02	-0.16/-2.65
Θ(37.5°)	-0.82/-1.72	-1.07/-2.01	-1.86/-4.63	-1.24/0.15	0.93/0.87	-0.04/-1.50	-1.37/0.28	0.92/0.19	-2.70/-3.20	-2.38/-3.12	-4.21/-5.26	-9.24/-10.46	-9.13/-9.72	-8.30/-6.69	-7.19/-4.80	-3.97/-4.44	-6.94/-6.86	-3.14/-1.03	-0.35/-0.26	-0.91/-1.12	-1.06/-1.46	-0.70/-0.76	0.60/0.77	0.82/0.03
Θ(45°)	0.46/0.35	0.00/-0.47	-2.15/-3.78	-2.64/-0.27	0.57/1.72	1.98/1.50	1.73/2.16	2.11/0.05	-1.00/-1.91	-1.98/-2.15	-3.30/-4.43	-6.57/-10.35	-10.41/-11.50	-4.89/-3.55	-6.54/-6.09	-8.88/-3.43	-5.14/-5.05	-4.43/-2.62	-1.00/-0.61	-0.96/-0.79	-0.83/-1.28	-2.24/-3.86	-2.50/-1.66	-0.22/0.48
Θ(52.5°)	-1.40/-1.91	-1.95/-2.17	-1.25/-2.88	-2.05/-1.30	-0.33/-2.29	3.47/3.98	3.41/3.29	3.63/2.45	0.45/-0.23	-0.54/-2.12	-4.50/-5.73	-9.31/-9.21	-7.97/-13.79	-8.99/-6.06	-5.16/-4.25	-3.51/-4.32	-3.79/-5.26	-6.05/-4.19	0.49/1.73	0.25/-0.84	1.00/0.19	-1.93/-3.71	-4.77/-1.38	-0.82/-1.18
Θ(60°)	-2.87/-2.83	-2.23/-2.57	-2.73/-3.81	-1.23/-0.46	0.72/2.89	3.86/4.75	4.10/3.86	4.37/3.16	1.98/1.32	-3.55/-3.05	-3.85/-7.80	-9.07/-12.22	-13.18/-5.48	-5.15/-6.10	-4.68/-3.74	-2.66/-5.76	-6.97/-7.37	-1.52/-0.68	-3.59/-3.29	-1.42/-0.49	-2.17/-1.47	-4.80/-3.05	-3.05/-3.68	
Θ(67.5°)	-2.82/-0.18	0.17/-1.88	-2.12/-3.36	-1.19/0.35	-1.19/0.35	3.03/4.33	3.76/3.47	3.57/3.12	2.85/2.39	0.60/-1.61	-2.00/-2.55	-3.54/-5.95	-5.69/-5.88	-7.92/-5.53	-4.60/-4.71	-4.11/-9.81	-5.06/-4.53	-5.25/-6.33	-4.40/-3.69	-5.89/-4.87	-2.56/-4.59	-4.94/-9.52	-5.54/-5.02	-6.42/-4.39
Θ(75°)	-1.41/0.36	0.42/-1.24	-1.29/-3.18	-0.96/0.11	2.06/2.21	1.92/3.98	4.07/2.83	3.03/3.26	3.31/2.72	0.87/-0.90	-0.91/-0.52	-1.06/-2.19	-4.04/-5.97	-5.49/-4.48	-3.44/-3.89	-3.10/-3.23	-7.62/-2.78	-1.23/-0.55	-0.67/-2.53	-3.34/-3.26	-4.78/-5.87	-1.40/-3.56	-6.41/-6.55	-5.93/-1.75
Θ(82.5°)	-2.38/-0.82	-0.04/-2.23	-2.00/-3.15	-1.87/0.54	1.64/1.79	1.49/4.03	3.80/2.70	3.28/2.49	2.65/2.87	1.04/-1.36	-0.68/-0.57	-1.70/-1.17	-2.51/-4.00	-5.25/-5.32	-3.26/-3.21	-3.96/-2.93	-4.99/-2.11	-0.22/-1.12	1.30/-0.00	-1.12/-0.79	-3.45/-4.49	-2.02/-2.91	-5.53/-7.32	-4.59/-1.95
Θ(90°)	-2.41/4.71	-2.14/-3.23	-2.72/-2.68	-1.27/-0.26	0.63/1.14	0.69/2.89	3.36/1.85	2.82/1.70	1.53/2.38	0.73/-1.35	-0.98/-0.34	-2.01/-1.97	-2.59/-5.03	-4.59/-9.45	-6.59/-3.28	-5.77/-2.34	-4.23/-4.84	-2.07/0.95	-1.60/-1.85	-2.35/0.10	-2.60/-4.31	-3.37/-3.53	-7.65/-8.39	-6.77/-3.05
Θ(97.5°)	-5.18/-9.45	-6.39/-5.52	-5.40/-3.01	-1.29/-1.21	-1.15/0.41	0.48/1.85	1.96/0.41	1.89/0.57	0.12/1.35	-0.61/-1.53	-0.80/-1.57	-2.03/-1.09	-4.39/-5.21	-4.91/-12.05	-12.18/-3.73	-5.62/-3.22	-5.19/-5.83	-5.22/-2.67	-1.60/-4.58	-5.69/-4.28	-6.63/-5.51	-12.27/-10.88	-11.24/-5.33	
Θ(105°)	-5.13/-5.89	-6.10/-7.24	-8.02/-3.57	-1.09/-1.83	-1.63/0.46	-0.32/-0.34	-0.17/-1.99	-1.13/-1.53	-1.35/0.45	-0.59/-3.23	-2.13/-2.39	-3.08/-1.78	-2.89/-8.58	-7.18/-10.02	-8.99/-7.59	-3.95/-3.23	-4.25/-10.69	-4.24/-5.81	-4.74/-2.84	-6.36/-5.67	-4.21/-2.44	-12.78/-9.58	-11.54/-9.74	-10.12/-0.06
Θ(112.5°)	-4.82/-4.88	-3.37/-3.91	-4.81/-2.61	-2.18/-3.05	-1.13/-1.56	-0.45/-1.99	-1.87/-3.68	-3.58/-3.27	-4.76/-2.92	-2.96/-3.79	-3.30/-3.69	-3.85/-2.30	-2.42/-4.16	-6.98/-13.34	-7.56/-4.42	-7.62/-3.18	-2.25/-11.25	-6.78/-7.64	-7.35/-5.38	-2.96/-4.68	-5.94/-1.55	-8.66/-10.92	-7.31/-3.94	-6.89/-9.30
Θ(120°)	-8.99/-10.64	-6.16/-3.26	-3.53/-3.93	-3.40/-3.02	-0.50/-2.40	-2.10/-2.79	-2.65/-3.25	-5.83/-4.23	-6.74/-4.55	-4.17/-5.33	-4.68/-5.77	-3.23/-4.20	-5.57/-5.52	-3.77/-6.08	-8.39/-3.08	-2.29/-0.12	-1.97/-13.24	-7.53/-6.49	-3.27/-4.61	-1.87/-2.99	-8.22/-3.27	-0.56/-9.36	-7.38/-4.62	-11.41/-4.94
Θ(127.5°)	-5.83/-11.12	-15.68/-10.99	-6.06/-4.81	-3.04/-5.03	-2.09/-3.75	-4.21/-4.67	-5.09/-4.33	-6.59/-5.14	-8.19/-6.95	-3.61/-4.21	-4.58/-1.52	-6.27/-5.89	-7.77/-5.87	-3.95/-4.22	-2.66/-1.26	-0.91/-3.22	-5.61/-8.42	-5.58/-6.21	-5.47/-5.28	-0.67/1.48	-1.81/-7.44	-10.90/-11.18	-5.33/-4.98	



Antenna Pattern of 6GHz

Appendix D

Θ (127.5°)	-8.96/-7.79	-5.81/-2.60	-4.19/-4.21	-4.38/-5.56	-6.77/-10.05	-10.65/-9.81	-7.34/-5.32	-3.20/-2.82	-2.35/-2.81	-2.85/-3.37	-3.80/-3.52	-3.90/-2.13	-3.77/-3.88	-8.24/-9.73	-13.98/-9.56	-5.07/-5.53	-7.37/-10.17	-7.98/-6.44	-11.43/-8.25	-4.52/-7.75	-11.83/-10.52	-6.33/-5.08	-7.17/-3.99	-3.08/-13.35
Θ (135°)	-2.61/-4.22	-6.59/-7.96	-6.04/-6.12	-6.83/-6.18	-6.95/-8.38	-7.94/-7.13	-4.60/-2.66	-2.96/-5.22	-4.88/-3.74	-2.93/-3.50	-4.19/-5.87	-5.91/-5.24	-3.10/-2.64	-3.34/-3.23	-6.84/-10.55	-12.59/-13.22	-7.98/-9.91	-9.20/-11.33	-12.73/-14.98	-9.21/-7.57	-6.68/-6.41	-7.29/-5.53	-6.60/-5.68	-10.08/-4.93
Θ (142.5°)	-6.41/-8.68	-11.18/-12.16	-11.70/-8.81	-8.94/-10.23	-8.42/-6.23	-4.68/-3.79	-3.31/-3.10	-4.07/-6.64	-5.53/-5.14	-4.80/-3.61	-8.11/-9.61	-6.08/-4.51	-3.59/-4.32	-5.75/-9.01	-13.33/-10.19	-7.02/-4.81	-5.50/-6.16	-10.84/-10.60	-5.10/-3.02	-2.14/-4.31	-10.70/-11.47	-6.55/-5.49	-6.37/-6.07	
Θ (150°)	-11.72/-16.08	-15.64/-15.24	-14.60/-15.42	-14.98/-10.13	-7.31/-5.55	-5.94/-6.39	-5.83/-5.62	-6.09/-7.71	-7.45/-5.56	-5.77/-6.03	-5.55/-6.07	-7.20/-8.28	-11.25/-11.50	-8.98/-8.26	-7.72/-5.87	-3.43/-3.92	-4.58/-4.83	-6.10/-4.55	-5.56/-9.41	-11.50/-9.68	-8.00/-7.99	-11.67/-15.27	-14.63/-11.62	-7.58/-7.97
Θ (157.5°)	-11.11/-13.81	-15.94/-14.03	-13.79/-14.79	-15.11/-15.87	-15.07/-12.34	-9.29/-8.21	-8.16/-10.28	-13.93/-13.30	-9.34/-7.15	-6.08/-6.12	-7.55/-8.09	-7.61/-8.60	-13.23/-15.45	-14.86/-13.87	-12.80/-12.83	-10.90/-7.80	-4.80/-4.47	-5.12/-4.65	-3.87/-4.74	-6.81/-9.16	-11.32/-13.38	-15.20/-15.64	-13.94/-12.14	-9.00/-8.91
Θ (165°)	-11.65/-11.67	-11.29/-10.90	-9.83/-10.63	-11.43/-12.26	-13.45/-14.31	-14.46/-14.58	-14.15/-14.00	-15.73/-14.37	-11.23/-8.89	-7.67/-5.67	-5.94/-5.20	-4.97/-6.29	-7.85/-7.61	-7.38/-7.04	-6.98/-6.36	-6.00/-5.61	-5.48/-6.03	-6.82/-7.05	-6.39/-6.72	-8.67/-11.77	-13.48/-12.64	-11.60/-12.72	-10.75/-9.35	-11.02/-11.43
Θ (172.5°)	-13.68/-14.53	-14.17/-14.75	-13.48/-12.44	-12.12/-12.01	-11.70/-11.02	-11.08/-10.75	-10.56/-10.43	-10.03/-9.56	-9.60/-9.05	-8.79/-8.28	-7.44/-6.06	-5.56/-5.41	-5.44/-5.48	-6.10/-6.49	-6.83/-7.37	-8.54/-9.36	-9.55/-9.62	-9.93/-10.05	-10.47/-11.02	-11.95/-12.15	-11.39/-11.52	-11.68/-10.38	-10.11/-10.21	-10.86/-12.49
Θ (180°)	-8.21/-7.71	-7.96/-8.08	-7.92/-8.01	-8.44/-8.49	-8.33/-8.14	-8.49/-8.68	-8.35/-8.35	-8.49/-8.21	-8.40/-8.51	-8.36/-8.08	-8.16/-8.71	-9.53/-9.67	-9.40/-9.11	-9.15/-9.05	-9.20/-10.00	-10.79/-10.63	-10.66/-11.87	-12.02/-11.22	-10.94/-11.35	-12.97/-12.79	-11.81/-10.58	-10.22/-10.06	-10.23/-10.67	-9.95/-9.15
Freq(Hz)	6.475GPol.	Total/Ant. 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°)	-6.52/-7.21	-7.68/-7.74	-6.76/-6.01	-6.36/-6.84	-6.60/-6.22	-6.23/-6.35	-6.50/-6.38	-6.10/-5.76	-5.48/-4.97	-4.72/-5.01	-5.38/-5.34	-4.98/-4.86	-5.14/-5.51	-5.80/-5.50	-5.72/-6.14	-6.14/-6.33	-6.66/-6.82	-6.88/-6.66	-6.42/-7.26	-8.40/-8.50	-7.62/-7.44	-7.23/-6.91	-6.94/-7.11	-6.81/-5.87
Θ (7.5°)	-3.71/-4.51	-4.60/-4.90	-5.57/-5.83	-6.23/-7.13	-7.61/-8.38	-10.15/-11.59	-11.74/-11.81	-11.92/-11.56	-10.78/-10.34	-9.53/-8.75	-8.92/-8.34	-7.67/-7.58	-8.57/-8.01	-6.85/-7.50	-8.09/-7.87	-7.33/-7.37	-7.55/-7.06	-6.18/-5.56	-4.68/-3.97	-4.16/-4.32	-4.43/-4.05	-3.60/-3.50	-3.79/-4.16	-4.11/-3.55
Θ (15°)	-5.61/-5.57	-5.86/-7.03	-7.24/-7.30	-7.88/-8.75	-9.42/-9.86	-11.46/-12.10	-12.75/-11.74	-11.61/-11.93	-11.54/-10.53	-10.34/-9.59	-9.39/-8.79	-7.16/-6.18	-6.98/-7.05	-6.19/-6.90	-8.88/-10.31	-10.74/-11.44	-11.87/-11.16	-9.59/-8.48	-8.01/-7.41	-7.10/-7.73	-8.03/-6.81	-4.92/-4.15	-3.84/-4.11	-4.67/-5.07
Θ (22.5°)	-2.29/-2.03	-1.81/-1.55	-1.60/-2.06	-2.45/-1.99	-2.13/-3.16	-3.56/-3.12	-3.21/-3.74	-5.13/-3.62	-7.48/-8.08	-9.88/-11.40	-11.72/-9.44	-8.02/-6.61	-6.33/-8.87	-8.12/-7.32	-9.92/-11.47	-11.24/-10.43	-10.49/-11.37	-12.66/-10.73	-8.35/-7.56	-6.93/-6.56	-6.72/-6.15	-5.49/-5.20	-5.19/-4.89	-3.78/-2.25
Θ (30°)	-1.33/-1.02	-0.58/-0.80	-1.49/-1.80	-2.43/-2.17	-2.04/-1.54	-1.16/-0.76	-0.51/-1.12	-1.89/-3.65	-4.23/-4.73	-6.29/-7.56	-7.43/-7.80	-10.01/-12.75	-10.73/-9.21	-9.97/-15.64	-12.60/-13.69	-10.10/-6.70	-6.62/-8.64	-7.80/-7.61	-7.40/-5.88	-4.41/-4.24	-5.50/-5.83	-5.45/-5.29	-3.43/-2.58	-2.08/-1.51
Θ (37.5°)	-1.41/-0.60	0.46/0.37	-1.11/-2.51	-3.07/-2.74	-2.08/-1.47	-1.08/-0.63	-0.49/-0.71	-1.55/-2.61	-2.28/-2.67	-3.87/-4.43	-5.40/-8.89	-11.69/-13.84	-11.17/-11.46	-12.00/-15.37	-14.23/-9.87	-7.83/-4.31	-5.20/-7.51	-8.62/-4.65	-2.99/-1.15	-0.67/-3.39	-7.39/-7.42	-4.84/-2.49	-0.95/-1.11	-2.17/-2.23
Θ (45°)	-0.86/-0.62	1.08/0.25	-1.25/-2.58	-2.51/-2.87	-3.77/-3.17	-1.82/-1.34	-0.48/-0.18	-1.14/-1.40	-1.39/-1.33	-1.81/-0.67	-1.23/-3.50	-5.01/-3.49	-3.94/-4.31	-8.95/-15.63	-14.02/-6.59	-8.32/-9.59	-6.55/-9.19	-5.91/-9.00	-4.88/-3.53	-1.91/-2.55	-4.56/-3.66	-3.87/-3.28	-2.80/-3.59	-4.67/-3.01
Θ (52.5°)	-0.64/-0.26	-1.02/-3.11	-4.15/-3.82	-2.76/-2.21	-2.66/-2.40	-1.22/-0.54	-0.74/-0.45	-0.22/-0.64	-0.85/-1.10	0.16/0.58	0.35/-0.34	-2.10/-2.62	-3.43/-3.48	-6.62/-10.60	-9.33/-4.97	-7.18/-5.99	-5.68/-8.24	-10.44/-10.87	-5.68/-3.49	-3.56/-3.88	-6.29/-6.04	-4.31/-4.03	-4.58/-6.25	-4.01/-1.75
Θ (60°)	-1.54/-2.50	-3.97/-4.76	-3.80/-4.36	-3.49/-1.99	-2.54/-2.79	-1.25/-0.41	-1.10/-2.37	-2.10/-0.95	-0.22/0.13	0.75/0.25	0.90/1.13	-0.27/-0.91	-1.01/-2.57	-5.28/-5.71	-6.16/-5.93	-5.82/-9.11	-6.84/-9.11	-6.38/-7.12	-6.65/-5.16	-4.71/-4.02	-5.18/-9.62	-8.91/-5.82	-5.66/-5.87	-3.46/-1.98
Θ (67.5°)	-2.22/-1.75	-2.49/-2.75	-2.02/-2.67	-2.72/-1.04	-1.25/-1.87	-0.49/0.84	0.53/-2.11	-2.45/-1.83	-1.42/-0.96	-0.51/-1.73	-0.94/-1.80	-1.10/-0.07	-0.63/-3.32	-6.64/-5.12	-4.97/-4.42	-5.48/-6.30	-6.38/-7.69	-5.24/-5.32	-4.22/-5.97	-5.71/-2.56	-6.63/-4.46	-6.67/-3.23	-4.90/-5.80	-4.93/-4.11
Θ (75°)	-1.11/0.48	-1.94/-3.37	-2.48/-2.32	-1.69/-2.13	-1.92/-1.55	5.02/-4.6	2.11/0.87	0.05/-1.22	-3.07/-3.52	-3.09/-3.08	-1.74/-2.39	-1.10/-0.17	-1.00/-2.11	-7.67/-5.37	-3.37/-3.08	-3.15/-7.70	-6.70/-4.82	-5.36/-6.66	-3.98/-5.11	-7.18/-4.26	-5.32/-7.24	-7.75/-5.11	-6.81/-5.30	-5.15/-3.57
Θ (82.5°)	-1.63/-0.13	-3.72/-3.50	-1.49/-1.23	-2.36/-3.52	-2.13/-1.93	0.46/2.16	2.38/1.59	1.46/1.13	-1.93/-4.19	-6.75/-3.98	-2.80/-3.72	-2.21/-1.18	-1.55/-3.03	-6.26/-5.78	-4.83/-5.55	-2.93/-6.70	-5.34/-3.07	-2.71/-3.94	-1.38/-3.94	-6.57/-6.01	-3.45/-8.00	-7.14/-9.45	-11.36/-4.17	-4.42/-5.56
Θ (90°)	-1.52/-2.42	-6.22/-6.90	-3.16/-3.26	-4.20/-6.70	-4.00/-1.37	-0.53/0.13	0.25/-0.18	0.40/1.21	-1.27/-3.45	-6.11/-4.99	-3.91/-2.74	-2.41/-3.65	-3.62/-5.56	-5.08/-4.99	-4.17/-5.02	-3.02/-5.55	-3.60/-3.75	-2.55/-2.55	-2.90/-1.59	-2.28/-4.87	-8.57/-7.31	-10.32/-6.41	-5.52/-7.28	
Θ (97.5°)	-4.82/-7.38	-13.41/-8.24	-5.59/-6.07	-6.47/-7.10	-3.12/-1.34	-0.19/-0.29	-1.28/-1.09	-1.20/-0.57	-2.90/-2.83	-4.86/-5.50	-4.37/-4.07	-3.88/-3.68	-4.17/-4.96	-3.70/-3.78	-4.51/-4.35	-3.23/-2.79	-3.07/-5.29	-3.41/-1.76	-6.33/-3.35	-4.67/-3.37	-4.76/-7.05	-6.74/-8.60	-10.44/-6.98	-11.27/-7.72
Θ (105°)	-9.69/-10.23	-5.60/-5.99	-4.08/-6.20	-9.02/-9.57	-4.13/-0.51	0.71/1.52	0.59/-0.39	-1.40/-2.72	-5.84/-4.01	-4.29/-4.27	-5.24/-8.05	-5.98/-4.77	-4.47/-6.01	-8.14/-5.78	-6.99/-3.56	-2.40/-2.61	-4.32/-8.03	-6.41/-1.37	-4.55/-8.68	-9.00/-7.48	-5.81/-7.10	-10.06/-12.84	-7.77/-6.81	-9.62/-10.47
Θ (112.5°)	-2.05/-1.65	-1.10/-4.58	-7.61/-8.99	-15.12/-13.55	-7.84/-2.52	-2.05/-0.59	-1.22/-1.72	-1.59/-3.25	-4.72/-6.59	-5.84/-5.59	-6.48/-7.56	-9.81/-6.58	-6.49/-5.89	-9.82/-8.36	-7.79/-2.17	-4.86/-1.91	-5.17/-5.72	-8.52/-2.72	-0.92/-1.96	-9.58/-10.67	-5.24/-13.94	-12.32/-12.13	-6.23/-8.97	-8.79/-6.44
Θ (120°)	-5.34/-5.67	-8.66/-12.56	-10.23/-7.49	-7.39/-9.92	-9.71/-3.14	-3.29/-3.23	-5.34/-6.66	-4.11/-6.32	-5.73/-7.11	-5.80/-6.53	-7.63/-12.39	-11.40/-5.60	-9.01/-9.24	-6.00/-4.36	-3.90/-3.03	-7.53/-9.88	-7.00/-4.77	-4.61/-5.74	-2.40/-4.66	-9.70/-3.70	-8.69/-10.13	-8.04/-11.23	-5.54/-6.47	
Θ (127.5°)	-10.11/-10.09	-6.83/-4.84	-7.25/-8.64	-7.32/-8.85	-9.74/-5.62	-6.95/-6.19	-8.97/-7.23	-4.44/-4.85	-5.10/-5.77	-5.63/-6.36	-7.00/-7.47	-6.73/-10.25	-11.03/-12.56	-13.83/-15.04	-10.78/-4.38	-3.94/-3.16	-9.47/-8.79	-3.47/-3.12	-6.48/-6.82	0.25/-2.59	-9.55/-10.26	-6.73/-12.50	-12.45/-7.48	-2.33/-7.90
Θ (135°)	-2.03/-3.24	-6.91/-8.99	-7.72/-7.60	-7.11/-14.8	-6.45/-7.34	-9.22/-8.58	-10.02/-12.21	-7.06/-5.56	-5.38/-5.99	-4.51/-4.96	-7.03/-9.70	-6.15/-5.23	-7.62/-6.44	-8.77/-9.51	-11.18/-11.45	-7.48/-10.91	-11.91/-6.41	-8.25/-10.98	-9.49/-12.61	-7.28/-6.16	-9.21/-9.96	-11.88/-13.26	-12.01/-9.95	-10.59/-5.36
Θ (142.5°)	-5.95/-9.77	-12.04/-10.27	-8.16/-5.88	-7.82/-15.46	-12.11/-9.54	-9.13/-9.59	-9.19/-8.35	-7.50/-6.42	-4.95/-4.16	-4.59/-4.93	-6.46/-7.17	-4.99/-4.23	-4.58/-4.06	-5.17/-8.22	-12.36/-11.37	-15.10/-15.21	-14.45/-9.56	-8.43/-8.48	-10.09/-11.39	-7.47/-6.33	-4.21/-5.42	-10.54/-10.68	-8.28/-9.30	-7.72/-4.99
Θ (150°)	-10.91/-10.00	-8.92/-8.85	-10.49/-11.82	-10.49/-6.80	-5.04/-5.60	-8.27/-7.19	-5.33/-6.23	-7.81/-6.66	-5.66/-5.50	-6.22/-6.89	-8.77/-12.38	-15.69/-15.91	-11.45/-9.88	-6.67/-6.25	-7.99/-7.06	-5.89/-7.40	-9.90/-8.11	-8.42/-8.84	-11.22/-14.63	-13.94/-11.03	-7.79/-8.24	-9.36/-14.82	-13.95/-12.37	-9.45/-8.93
Θ (157.5°)	-9.47/-10.01	-10.87/-13.76	-15.70/-15.30	-12.55/-8.57	-7.04/-6.80	-8.07/-10.32	-13.21/-13.49	-10.23/-9.52	-9.49/-9.05	-8.58/-8.10	-8.23/-8.88	-9.81/-11.35	-10.92/-10.77	-9.14/-7.22	-6.10/-6.72	-5.53/-5.19	-5.16/-5.04	-6.54/-6.07	-5.76/-6.55	-7.12/-7.46	-8.35/-8.45	-13.19/-14.31	-14.00/-12.53	-8.69/-8.04
Θ (165°)	-9.02/-10.33	-12.67/-14.40	-15.09/-14.65	-14.79/-15.33	-15.14/-14.78	-15.45/-13.12	-11.34/-10.28	-9.02/-6.68	-4.46/-3.41	-2.85/-3.14	-3.84/-4.57	-6.04/-7.02	-7.01/-7.45	-6.67/-8.47	-4.18/-2.79	-2.22/-2.54	-2.83/-2.83	-3.72/-5.56	-6.96/-8.65	-11.00/-14.35	-15.05/-12.96	-10.65/-9.73	-9.94/-11.11	-11.54/-10.36
Θ (172.5°)	-11.99/-12.86	-11.80/-10.81	-10.22/-9.67	-10.05/-9.61	-9.72/-10.70	-10.77/-11.24	-10.79/-10.60	-10.58/-9.37	-7.51/-6.41	-6.07/-6.15	-5.91/-6.11	-6.71/-6.69	-6.24/-5.97	-5.41/-5.26	-3.78/-4.00	-4.30/-4.87	-5.27/-5.61	-6.45/-8.97	-12.09/-12.94	-12.92/-13.05	-13.29/-14.66	-13.92/-11.63	-11.05/-11.25	-10.97/-10.28
Θ (180°)	-8.40/-9.78	-8.90/-8.48	-8.98/-8.90	-8.80/-8.9																				

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

