



Antenna Pattern 2.4GHz and 5GHz U-NII 1~U-NII 3

Appendix D

Θ(75°)	-7.24/-7.01	-2.94/-1.19	3.08/0.10	-1.89/-0.49	-3.42/-1.24	-1.31/-3.24	-1.44/-2.20	-2.98/-5.72	-2.29/0.44	-3.37/-2.34	0.36/-1.17	-2.42/-4.39	-10.56/-4.18	-2.68/-0.05	-2.68/-2.57	-1.17/0.50	-0.00/-1.27	-0.11/-1.63	1.42/0.25	1.09/-1.90	1.30/0.90	0.93/-4.19	-1.19/-0.71	-1.32/-2.17
Θ(82.5°)	-8.98/-5.16	-1.39/-4.12	1.12/-4.51	-7.24/-3.41	-4.53/-4.83	-6.15/-10.10	-6.68/-2.36	-7.19/-7.77	-9.95/-4.43	-7.53/-6.32	-1.66/-0.61	-1.33/-6.32	-8.15/-5.99	-4.66/-2.12	-2.83/-2.03	-2.52/-1.41	0.03/0.35	1.81/-3.27	2.26/2.25	1.85/-4.03	1.66/2.51	0.22/-4.00	-3.21/-0.79	-2.62/-2.43
Θ(90°)	-5.97/-6.00	-2.78/0.83	-2.13/-7.63	-10.00/-6.35	-4.62/-7.12	-1.89/-3.98	-11.89/-3.02	-10.37/-14.39	-10.59/-7.12	-5.92/-6.27	-3.98/-3.88	-1.48/-3.61	-8.55/-5.97	-6.85/-3.38	-2.97/-2.07	-3.06/0.47	0.02/-0.34	1.38/0.97	2.71/3.02	2.02/-3.36	0.81/-3.06	-1.01/-3.00	-3.06/-1.50	-2.03/-4.85
Θ(97.5°)	-6.03/-12.65	-4.90/-0.53	-3.75/-6.87	-10.40/-7.44	-6.09/-7.57	-13.96/-13.94	-8.81/-6.75	-13.34/-12.87	-5.58/-5.79	-2.50/-4.97	-3.42/-4.13	-4.39/-6.07	-10.07/-12.17	-6.37/-4.05	-2.23/-0.18	-1.06/-0.91	-0.62/0.03	0.86/0.82	2.67/2.42	1.00/-1.43	0.20/0.38	-3.10/-1.02	-2.34/-1.53	-2.79/-3.06
Θ(105°)	-7.63/-9.10	-3.12/-1.01	-2.93/-3.22	-6.45/-9.63	-9.27/-6.78	-8.82/-12.87	-11.46/-11.12	-12.89/-10.42	-6.74/-9.41	-2.81/-5.10	-3.17/-2.18	-10.98/-9.27	-6.66/-3.60	-1.86/-0.62	-1.55/-1.99	-0.48/0.87	-0.90/-1.60	1.36/1.03	0.64/0.43	0.06/-3.88	-3.73/-1.21	-2.15/-0.89	-1.67/-3.48	
Θ(112.5°)	-12.94/-6.73	-5.13/-1.83	-3.10/-5.28	-8.75/-7.77	-6.68/-9.01	-10.20/-8.89	-14.96/-15.66	-11.31/-10.12	-5.31/-7.55	-6.07/-4.62	-5.28/-2.92	-2.74/-5.40	-10.85/-6.78	-4.96/-3.49	-3.89/-1.52	-1.98/-0.12	-0.27/-1.36	0.50/0.23	1.61/-1.20	-0.29/0.90	-0.14/-3.60	-3.43/-3.09	-2.03/-4.44	
Θ(120°)	-8.34/-7.78	-7.48/-4.29	-4.94/-4.27	-7.96/-9.60	-6.68/-7.97	-9.89/-12.62	-14.84/-15.78	-9.74/-10.17	-8.95/-6.95	-8.00/-11.03	-6.37/-5.30	-5.66/-7.30	-10.93/-14.70	-6.36/-6.72	-5.05/-4.41	-3.49/-0.78	-1.64/-2.25	-0.45/-0.46	-0.45/0.01	0.84/-1.00	0.11/0.22	-0.74/-4.14	-7.47/-3.70	-5.14/-5.77
Θ(127.5°)	-6.95/-4.60	-6.75/-4.63	-4.78/-3.83	-7.66/-14.60	-12.92/-15.78	-14.87/-12.23	-11.10/-9.66	-9.70/-15.44	-14.38/-14.12	-13.51/-15.94	-9.40/-6.64	-5.37/-7.13	-11.44/-14.84	-8.81/-9.75	-6.08/-9.16	-7.53/-5.50	-4.83/-2.75	0.07/0.54	-1.12/-0.18	0.73/-1.73	-1.25/-4.35	-5.04/-5.88	-8.14/-4.47	-3.91/-11.20
Θ(135°)	-7.09/-2.90	-0.95/-4.12	-6.36/-14.02	-11.47/-9.80	-9.81/-9.35	-10.57/-10.29	-8.76/-13.55	-10.31/-15.32	-14.01/-15.24	-15.30/-15.59	-7.40/-3.41	-4.53/-5.50	-8.61/-10.43	-12.32/-5.77	-6.06/-9.61	-9.23/-9.34	-10.21/-4.82	-1.63/-1.24	-2.28/-2.19	-1.14/0.71	-1.28/-7.02	-11.86/-6.29	-3.83/-3.53	-3.36/-5.97
Θ(142.5°)	-6.24/-3.98	-2.30/-3.26	-5.50/-10.02	-12.38/-14.66	-12.55/-15.61	-13.28/-10.40	-14.87/-14.03	-15.10/-12.35	-12.84/-13.53	-11.35/-14.32	-8.12/-5.55	-4.20/-3.74	-6.12/-7.18	-10.61/-9.59	-8.94/-11.72	-15.10/-11.91	-6.89/-3.70	-2.68/-2.68	-4.44/-4.56	-2.43/-0.37	-1.98/-4.14	-11.26/-9.39	-11.10/-9.08	-9.68/-10.07
Θ(150°)	-13.70/-11.14	-11.47/-10.17	-10.99/-15.62	-11.32/-9.33	-12.46/-15.09	-14.93/-14.88	-15.43/-15.57	-15.52/-12.42	-13.07/-11.70	-12.49/-15.63	-14.73/-13.66	-13.38/-12.73	-12.08/-13.31	-14.91/-15.25	-13.99/-14.13	-13.70/-11.43	-5.46/-5.04	-4.88/-4.84	-4.79/-5.12	-3.85/-2.66	-2.52/-3.75	-6.26/-8.14	-9.38/-10.57	-12.62/-13.88
Θ(157.5°)	-11.99/-11.08	-13.99/-13.66	-13.28/-13.23	-16.16/-14.54	-13.67/-15.08	-14.00/-12.18	-10.53/-14.88	-15.55/-14.83	-13.51/-15.24	-15.69/-13.07	-12.80/-13.07	-11.54/-13.47	-12.30/-15.45	-15.23/-11.96	-8.11/-7.59	-9.16/-7.59	-6.54/-7.48	-7.57/-7.29	-6.28/-8.52	-7.89/-8.41	-9.20/-7.83	-8.38/-10.97	-15.54/-13.00	
Θ(165°)	-14.04/-14.06	-15.33/-15.38	-14.69/-14.60	-11.22/-10.28	-9.05/-7.99	-7.15/-6.81	-7.07/-8.13	-8.81/-11.09	-13.17/-13.72	-13.62/-14.61	-15.51/-14.52	-13.78/-13.16	-13.62/-14.63	-12.99/-12.79	-13.65/-14.14	-15.03/-13.81	-14.15/-9.62	-11.97/-7.46	-6.66/-5.36	-7.04/-6.26	-7.02/-9.65	-8.27/-7.66	-8.57/-8.44	-10.46/-14.45
Θ(172.5°)	-15.57/-13.91	-11.94/-10.37	-9.31/-7.23	-6.14/-6.87	-7.08/-5.57	-5.74/-5.81	-5.85/-5.93	-5.28/-5.93	-5.58/-6.28	-6.23/-7.49	-7.82/-8.31	-8.69/-9.29	-10.50/-11.11	-10.66/-9.73	-8.75/-7.40	-7.25/-7.02	-6.48/-5.84	-5.46/-5.56	-6.16/-6.30	-6.32/-6.11	-6.25/-6.52	-7.62/-7.94	-8.36/-8.53	-11.25/-15.04
Θ(180°)	-12.79/-13.55	-12.27/-9.31	-8.40/-8.63	-8.68/-7.56	-7.01/-7.62	-7.60/-6.68	-7.03/-6.71	-7.54/-7.20	-7.17/-8.48	-8.37/-8.52	-9.08/-9.01	-9.14/-9.39	-9.07/-8.70	-8.60/-8.35	-7.20/-6.93	-7.41/-6.62	-6.27/-6.88	-6.53/-6.78	-6.76/-6.49	-6.98/-7.69	-8.56/-10.01	-10.06/-11.51	-13.39/-13.72	-12.96/-13.06
Freq(Hz)	5.785GPol.	TotalAnt.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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°)	-5.14/-5.58	-5.12/-5.72	-5.79/-4.37	-4.19/-0.74	-4.05/-4.09	-4.24/-4.15	-4.07/-4.50	-4.47/-4.92	-5.51/-4.95	-5.34/-6.27	-6.21/-6.98	-6.05/-5.45	-5.56/-5.37	-5.30/-5.05	-5.04/-5.36	-5.50/-5.23	-5.54/-6.12	-5.14/-5.42	-5.42/-5.55	-5.40/-6.05	-5.44/-5.40	-5.51/-4.46	-4.83/-4.80	
Θ(7.5°)	-7.22/-8.01	-6.57/-5.27	-4.31/-3.35	-3.93/-3.99	-3.52/-4.56	-4.26/-3.58	-2.91/-2.31	-2.68/-3.17	-3.18/-3.42	-3.55/-4.27	-3.82/-3.95	-4.06/-3.06	-2.85/-2.02	-1.85/-2.15	-3.21/-3.82	-4.75/-5.09	-5.01/-4.45	-3.95/-3.24	-3.53/-3.74	-3.17/-3.60	-3.23/-2.68	-3.11/-3.92	-5.36/-6.40	-5.99/-6.19
Θ(15°)	-2.75/-2.68	-2.28/-2.13	-1.95/-3.24	-5.38/-6.13	-5.16/-4.10	-5.06/-5.19	-4.66/-3.49	-2.80/-2.28	-2.99/-3.78	-3.39/-3.47	-3.58/-2.98	-2.99/-3.42	-4.02/-3.47	-3.56/-4.54	-5.53/-4.42	-5.49/-4.97	-5.41/-6.01	-5.16/-5.49	-4.95/-5.72	-4.99/-4.51	-3.49/-2.46	-2.55/-3.09	-4.87/-9.62	-7.73/-4.45
Θ(22.5°)	-3.26/-5.80	-8.00/-7.56	-5.55/-3.03	-1.53/-4.43	-1.97/-0.96	-1.77/-1.78	-1.97/-1.08	-1.38/-1.08	-0.70/-0.08	-1.23/-3.38	-2.98/-4.31	-3.45/-3.06	-3.76/-3.96	-5.01/-6.63	-6.40/-6.44	-6.25/-5.69	-5.51/-7.75	-6.35/-9.02	-8.68/-9.90	-13.28/-14.84	-8.72/-6.67	-5.43/-3.85	-7.10/-9.69	-5.24/-3.34
Θ(30°)	-6.93/-6.57	-3.77/-1.02	-0.84/-0.48	-2.32/-2.92	-1.51/-1.84	-3.31/-3.49	-3.72/-2.34	-0.60/-0.97	-3.87/-2.53	-0.50/-0.81	-1.61/-4.93	-5.91/-4.95	-6.26/-7.92	-7.95/-5.00	-4.31/-6.23	-6.25/-5.84	-7.64/-7.88	-8.55/-8.28	-11.80/-9.81	-8.40/-10.86	-9.16/-9.50	-6.72/-6.00	-10.09/-10.45	-8.06/-5.50
Θ(37.5°)	-8.48/-4.53	-2.20/-2.21	-3.77/-2.28	-2.96/-1.03	1.23/-1.22	0.54/0.24	0.54/0.03	0.96/-0.76	-1.82/-2.77	-2.56/-3.07	-0.91/-4.13	-5.82/-6.19	-6.71/-7.42	-5.78/-4.41	-6.10/-5.08	-3.95/-6.07	-9.72/-13.75	-12.48/-11.91	-11.25/-14.47	-15.23/-13.72	-8.72/-7.70	-7.15/-7.14	-8.91/-9.45	-7.70/-8.71
Θ(45°)	-3.95/-3.36	-4.19/-2.83	-2.76/-1.78	-0.76/-1.21	-1.69/-1.20	-1.07/-1.13	0.18/-1.44	-0.79/-0.84	-6.05/-3.49	-5.85/-2.36	-3.04/-4.72	-4.30/-4.86	-3.37/-5.85	-5.30/-6.28	-7.95/-4.72	-3.46/-4.67	-8.84/-9.57	-12.87/-12.43	-9.51/-9.69	-10.34/-11.44	-8.78/-7.66	-8.38/-10.71	-7.51/-6.72	-5.92/-6.15
Θ(52.5°)	-6.29/-5.72	-8.94/-3.63	-2.91/-1.33	-1.99/-3.82	-0.22/-0.10	-1.72/-1.91	1.56/0.14	-3.28/-1.67	-1.07/-1.27	-0.75/-0.62	-3.36/-5.57	-5.49/-4.62	-5.83/-4.85	-2.35/-4.68	-4.37/-1.47	-1.31/-2.47	-6.81/-6.95	-6.23/-8.74	-5.96/-5.28	-9.18/-8.90	-8.32/-7.22	-6.86/-9.20	-4.36/-3.62	-3.23/-4.78
Θ(60°)	-6.33/-6.14	-4.83/-2.59	-2.02/-2.35	-0.30/-1.04	-0.49/0.66	0.06/-2.85	-1.03/0.40	-0.74/-1.60	0.71/-1.25	-1.01/-1.43	-2.63/-2.38	-7.60/-7.70	-15.02/-5.33	-1.23/-1.58	-3.41/-1.54	-2.02/0.28	-1.83/-5.76	-4.57/-5.43	-4.39/-1.70	-5.41/-6.77	-7.79/-4.25	-4.15/-5.96	-2.06/-4.63	-4.02/-3.48
Θ(67.5°)	-4.20/-7.68	-3.82/-1.12	1.46/-4.09	-0.92/0.98	-0.99/-0.35	1.21/0.50	-0.53/0.12	-1.41/-3.86	-0.40/0.04	-2.83/-4.42	-4.77/-7.91	-11.21/-4.40	-4.37/0.42	-2.05/-1.69	-1.98/0.39	-1.92/-3.24	-2.07/-3.02	-1.28/-1.24	-3.36/-3.78	-3.40/-2.00	-0.02/-4.34	-1.33/-5.42	-2.44/-2.70	
Θ(75°)	-7.72/-6.85	-0.53/0.44	2.04/-2.42	-3.38/-0.62	-2.92/-2.09	-0.91/-1.57	-1.40/-3.23	-3.00/-5.05	-2.31/-1.97	-6.91/-0.74	-0.86/-1.22	-2.38/-4.12	-9.34/-4.75	-7.45/0.23	-6.60/-1.32	-1.06/1.66	-1.40/-1.02	-0.13/0.70	0.77/-0.54	-1.98/-1.36	-0.63/-2.51	-3.41/-3.56	-0.58/-2.54	
Θ(82.5°)	-11.08/-2.78	-0.97/-0.34	-2.05/-4.93	-7.78/-4.22	-6.69/-5.46	-4.66/-4.78	-4.31/-4.36	-5.41/-8.35	-9.07/-5.72	-9.25/-5.60	-2.39/-4.02	-0.69/-2.18	-10.51/-6.30	-5.79/-1.80	-2.82/-1.51	0.47/-1.95	-0.09/-0.61	1.35/2.84	1.11/-1.57	3.60/-8.4	0.52/-2.59	-0.31/-1.84	-4.92/-2.18	-1.29/-3.34
Θ(90°)	-8.58/-5.43	-3.16/-0.52	-3.61/-7.41	-11.46/-6.08	-7.08/-10.95	-7.02/-5.58	-9.61/-4.03	-9.88/-9.44	-15.60/-6.98	-7.43/-6.83	-5.88/-4.23	-2.00/-1.62	-3.98/-9.80	-6.20/-3.52	-2.35/-9.23	-1.12/-1.36	0.31/-1.01	1.91/3.60	1.47/-1.80	3.14/0.98	2.00/-1.80	0.49/-2.32	-4.31/-3.20	-1.75/-5.92
Θ(97.5°)	-10.74/-10.55	-0.60/-0.57	-2.90/-5.67	-10.99/-9.90	-8.57/-9.93	-15.50/-7.34	-9.73/-6.72	-15.26/-12.28	-9.53/-3.53	-3.64/-5.37	-5.84/-7.91	-3.91/-4.90	-10.03/-13.94	-6.01/-2.30	-2.10/-1.50	-1.84/-0.71	-1.45/-0.39	1.78/2.63	2.19/2.74	1.37/-1.11	-2.06/-0.86	-0.45/-1.94	-2.94/-2.02	-2.53/-6.43
Θ(105°)	-9.97/-10.91	-5.85/-0.81	-1.01/-2.77	-5.64/-11.37	-9.36/-10.85	-14.57/-10.35	-9.50/-11.72	-14.07/-9.69	-8.49/-4.78	-3.14/-3.98	-4.40/-3.69	-5.83/-7.13	-8.89/-6.06	-11.66/-3.54	-3.94/-4.09	-2.92/-4.01	-2.33/0.31	-0.71/0.11	1.31/-1.35	-1.28/0.96	0.14/-1.51	-1.29/-1.42	-0.59/-1.96	-0.89/-3.11
Θ(112.5°)	-13.32/-6.81	-3.13/-2.02	-4.00/-4.61	-7.26/-8.75	-9.10/-11.94	-10.56/-13.04	-15.18/-14.62	-15.27/-9.78	-7.51/-8.10	-4.26/-4.85	-4.99/-2.90	-3.74/-4.78	-9.85/-5.27	-7.15/-6.67	-2.87/-1.79	-3.43/-3.39	0.14/0.66	-1.46/-0.03	-0.82/-1.17	0.66/-0.62	-0.89/0.13	-0.76/-2.94	-2.40/-2.60	-2.95/-4.61
Θ(120°)	-8.66/-8.81	-5.77/-3.89	-5.97/-4.93	-6.67/-9.19	-6.87/-9.65	-9.80/-11.57	-15.39/-14.28	-11.71/-8.68	-6.68/-5.15	-8.17/-6.80	-5.99/-5.62	-6.76/-8.69	-10.80/-8.90	-7.82/-8.47	-6.39/-3.42	-3.32/-2.46	-3.02/-2.20	-1.56/-0.77	1.19/-1.05	-1.89/-0.67	-0.86/-4.95	-6.10/-6.33	-4.03/-3.08	
Θ(127.5°)	-11.89/-7.84	-4.30/-3.76	-5.94/-5.86	-8.17/-13.66	-10.74/-15.92	-14.22/-11.41	-10.10/-9.72	-14.91/-15.22	-12.67/-12.82	-8.19/-														



Antenna Pattern 2.4GHz and 5GHz U-NII 1~U-NII 3

Appendix D

Θ(127.5°)	-5.92/-10.72	-14.41/-7.41	-14.76/-6.77	-4.73/-7.78	-8.20/-8.66	-3.77/-6.71	-6.96/-6.89	-7.37/-12.77	-12.34/-8.56	-10.76/-6.85	-9.98/-13.36	-13.99/-15.30	-8.55/-9.51	-10.10/-7.85	-9.08/-10.10	-4.14/-3.15	-8.52/-12.74	-10.89/-9.41	-6.90/-3.60	-7.52/-6.41	-10.57/-9.82	-10.37/-5.14	-6.59/-11.70	-13.55/-8.09
Θ(135°)	-10.47/-8.01	-4.48/-9.22	-11.04/-12.78	-11.49/-15.79	-9.40/-9.37	-8.86/-7.55	-5.40/-4.18	-5.95/-10.71	-10.00/-12.33	-12.79/-11.78	-9.51/-9.79	-8.79/-9.10	-6.17/-7.38	-6.95/-9.07	-14.29/-10.53	-5.67/-6.24	-6.80/-12.10	-12.60/-6.37	-5.46/-5.40	-6.93/-12.34	-9.12/-10.46	-9.47/-12.76	-10.85/-8.89	-7.99/-1.51
Θ(142.5°)	-13.40/-14.41	-5.89/-8.33	-10.65/-13.05	-15.43/-15.27	-12.47/-12.17	-13.51/-9.31	-8.68/-5.85	-6.08/-9.06	-10.34/-14.59	-13.59/-13.66	-11.52/-10.90	-11.58/-12.17	-11.52/-11.10	-11.03/-10.05	-12.84/-11.30	-11.90/-15.29	-9.87/-7.66	-5.95/-10.32	-8.04/-10.42	-6.69/-6.75	-8.83/-7.37	-7.72/-10.34	-13.53/-12.23	-15.16/-14.77
Θ(150°)	-12.26/-8.74	-6.97/-10.99	-15.26/-13.98	-15.03/-14.47	-14.55/-15.08	-12.55/-8.12	-8.60/-9.35	-8.13/-8.93	-10.50/-12.65	-15.47/-15.53	-15.74/-12.33	-10.48/-12.24	-15.48/-15.78	-15.17/-11.70	-12.02/-10.71	-9.85/-9.04	-9.97/-13.25	-9.16/-6.97	-8.16/-9.53	-5.73/-5.70	-9.11/-15.50	-12.32/-10.40	-13.18/-15.21	-15.81/-15.78
Θ(157.5°)	-6.70/-10.81	-12.72/-10.97	-9.31/-8.90	-6.99/-7.18	-7.81/-8.33	-7.91/-7.22	-7.35/-8.63	-8.42/-9.31	-12.04/-10.75	-10.88/-11.63	-11.56/-12.58	-12.78/-13.84	-14.43/-14.90	-14.94/-15.48	-13.45/-13.21	-13.89/-13.27	-7.82/-7.33	-6.31/-6.36	-7.40/-11.01	-14.18/-12.24	-11.69/-13.95	-12.70/-9.63	-8.24/-8.63	
Θ(165°)	-13.91/-11.89	-8.97/-8.12	-7.97/-7.01	-6.49/-6.60	-6.84/-7.00	-6.00/-6.97	-6.56/-6.43	-6.17/-6.52	-6.46/-6.34	-5.69/-6.49	-4.60/-4.03	-4.37/-5.51	-6.17/-7.28	-8.63/-7.88	-6.13/-8.66	-7.81/-8.65	-10.25/-10.08	-8.49/-6.97	-6.41/-8.22	-10.41/-11.25	-7.99/-5.00	-3.33/-3.35	-5.11/-7.20	-8.16/-10.41
Θ(172.5°)	-8.66/-6.19	-6.52/-8.04	-7.90/-8.25	-8.58/-9.54	-8.38/-7.40	-6.66/-6.04	-5.36/-5.01	-5.01/-4.91	-5.56/-7.19	-7.58/-7.77	-7.95/-9.18	-10.74/-13.18	-13.78/-13.25	-12.06/-11.45	-10.68/-11.39	-11.08/-12.51	-13.14/-12.65	-11.77/-12.02	-11.24/-9.91	-9.52/-9.46	-9.36/-9.25	-9.37/-11.78	-13.05/-10.95	-10.39/-11.92
Θ(180°)	-7.00/-8.69	-9.76/-9.70	-9.58/-10.39	-9.99/-9.26	-8.90/-8.69	-7.61/-7.06	-6.73/-6.12	-6.06/-6.08	-6.41/-7.71	-9.53/-10.44	-9.02/-7.77	-7.70/-7.65	-6.86/-6.72	-8.56/-9.18	-9.59/-11.23	-12.01/-13.50	-13.10/-12.34	-12.84/-12.69	-11.70/-10.47	-9.88/-9.72	-10.24/-10.73	-10.70/-9.84	-7.82/-7.92	-8.97/-7.66
Freq(Hz)	5.6GPol.	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°)	-12.68/-12.39	-13.50/-11.66	-11.69/-11.29	-11.89/-13.34	-8.79/-8.63	-8.95/-8.85	-9.01/-7.82	-7.87/-7.78	-7.73/-8.24	-8.06/-7.31	-6.42/-6.27	-6.98/-6.59	-6.18/-7.05	-7.15/-6.37	-6.33/-5.94	-5.88/-6.16	-6.67/-6.90	-6.96/-6.76	-6.74/-7.11	-7.21/-8.37	-9.83/-9.78	-8.53/-10.01	-11.73/-13.29	
Θ(7.5°)	-10.21/-8.16	-7.14/-7.60	-8.80/-10.57	-14.52/-6.13	-15.54/-11.02	-9.39/-9.25	-9.18/-7.94	-7.21/-6.51	-6.59/-5.94	-6.30/-6.25	-6.73/-8.13	-6.43/-6.99	-5.91/-6.59	-5.56/-5.34	-6.07/-6.87	-5.61/-6.06	-5.63/-6.52	-6.60/-7.30	-7.66/-8.20	-8.14/-8.24	-10.37/-10.46	-11.19/-11.54		
Θ(15°)	-9.82/-10.32	-10.85/-11.21	-11.24/-8.32	-6.55/-6.50	-7.30/-9.78	-11.88/-13.34	-11.52/-9.96	-7.52/-5.59	-4.68/-4.87	-3.90/-3.38	-3.57/-3.75	-3.81/-4.05	-4.49/-6.54	-5.86/-5.22	-5.90/-5.06	-5.87/-7.62	-7.21/-7.97	-8.10/-6.54	-6.75/-8.68	-7.92/-6.44	-5.89/-5.77	-7.09/-7.72	-8.05/-9.57	-8.53/-9.35
Θ(22.5°)	-14.70/-11.86	-11.45/-8.86	-8.04/-9.94	-10.55/-7.75	-4.96/-4.29	-6.79/-7.50	-4.98/-4.16	-4.42/-4.38	-4.61/-3.70	-1.33/-2.08	-3.39/-4.50	0.56/-1.21	1.350/-74	0.640/55	-1.57/-3.15	-5.21/-10.01	-6.33/-4.43	-6.19/-6.72	-6.36/-7.80	-7.37/-7.59	-8.51/-8.60	-10.80/-14.49	-12.91/-11.21	-11.11/-13.93
Θ(30°)	-10.68/-10.22	-15.84/-13.27	-14.52/-9.95	-7.55/-6.13	-4.33/-4.29	-5.48/-7.34	-4.08/-4.24	-4.84/-5.29	-6.22/-4.80	-2.66/-2.54	-0.14/-1.01	0.720/23	0.461/58	3.103/05	0.74/-25	-2.67/-4.56	-3.23/-1.71	-3.15/-9.73	-3.77/-3.34	-6.67/-6.36	-11.93/-9.54	-8.91/-7.04	-9.94/-15.06	
Θ(37.5°)	-3.73/-5.71	-9.04/-7.12	-8.10/-5.60	-4.41/-4.21	-5.10/-5.10	-5.65/-3.48	-2.92/-1.38	-4.78/-4.04	-5.15/-4.42	-1.210/94	1.081/02	1.410/52	0.580/74	1.007/19	0.56/-1.57	-4.81/-5.60	-1.06/-0.15	-4.28/-3.63	-2.16/-2.96	-5.95/-4.47	-5.08/-3.89	-2.99/-4.61	-3.85/-4.43	-7.94/-4.41
Θ(45°)	-2.48/-6.43	-4.78/-8.83	-5.16/-2.07	-2.50/-3.64	-7.43/-2.37	-3.60/-2.68	-1.62/-0.55	-2.36/-1.99	-2.18/-5.12	-1.741/08	0.912/82	2.912/70	3.672/83	3.042/70	0.55/-1.13	-2.25/-4.82	-4.83/-0.55	-2.680/15	-1.50/-4.39	-1.54/-9.06	-1.63/-0.05	-4.44/-3.82	-4.90/-6.83	-1.950/59
Θ(52.5°)	-3.13/-2.89	-3.27/-3.03	-4.47/-3.12	-8.23/-5.50	-10.03/-6.97	-1.770/91	-0.74/-1.67	-1.63/-1.76	-1.31/-0.22	1.290/15	1.450/86	2.782/79	1.17/-1.61	-2.24/-3.09	-1.81/-0.52	-0.90/-1.79	-2.06/-3.24	-1.38/-4.56	-4.86/-5.76	-10.57/-5.84	-9.16/-7.72	-7.56/-2.83		
Θ(60°)	-13.00/-6.68	-7.62/-9.62	4.94/-5.00	-2.74/-5.83	-5.07/-4.37	-3.94/-5.59	-3.26/-1.61	-1.92/-3.36	-3.70/-2.71	-4.440/66	-1.851/39	-0.27/-4.11	-0.86/-2.94	-0.642/33	-1.85/-3.34	-2.02/-2.38	-0.68/-0.90	-1.21/-1.83	-2.80/-5.27	-5.24/-8.19	-8.42/-4.99	-5.57/-5.22	-6.20/-4.61	-3.19/-6.38
Θ(67.5°)	-0.910/-72	-0.320/94	1.14/-1.31	0.36/-1.81	-3.70/-3.02	-2.98/-2.10	-1.21/-3.43	-0.15/-2.35	-4.82/-2.35	-3.712/01	0.540/-102	-2.64/-7.17	-0.38/-2.11	-1.361/23	0.11/-0.52	-0.73/-0.03	-1.65/-6.35	-0.23/-5.32	-0.30/-2.20	-2.83/-1.83	-1.39/-0.51	-1.530/61	-1.20/-0.69	0.42/-0.05
Θ(75°)	-0.301/05	-0.341/64	0.780/63	-4.19/-4.51	-4.46/-3.39	-3.94/-0.70	-1.50/-2.39	-0.32/-1.45	-1.18/-4.94	-3.50/-1.15	2.001/72	-0.700/81	1.840/-0.06	-0.541/84	1.730/18	-0.22/-0.86	-2.59/-5.40	-0.40/-7.25	2.57/-0.04	-3.80/-8.77	1.93/-0.27	2.29/-0.20	-0.33/-4.58	-3.77/-0.50
Θ(82.5°)	-0.74/-2.92	-2.88/-0.74	-0.84/-1.15	-2.24/-6.05	-6.09/-1.82	-4.53/-1.28	-0.74/-0.65	-0.61/-1.03	-1.25/-3.42	-3.650/27	0.802/68	-1.091/90	1.80/-0.04	0.502/68	1.56/-0.91	-1.63/-2.27	-2.69/-1.87	0.23/-2.13	1.87/-0.75	0.572/05	-0.06/-2.45	0.25/-0.02	-1.71/-7.28	-3.66/-3.36
Θ(90°)	-2.73/-4.70	-2.94/-3.04	-5.43/-7.10	-1.99/-6.52	-5.84/-2.16	-4.61/-3.21	-2.22/-1.90	-1.23/-1.98	-2.38/-2.62	-3.58/-1.20	-1.540/93	-0.890/54	0.110/50	-1.331/01	0.64/-1.46	-0.49/-5.31	-1.05/-3.13	-1.57/-5.05	0.06/-0.01	1.88/-3.11	-3.07/-6.53	-0.20/-4.69	-9.50/-13.07	-5.88/-0.53
Θ(97.5°)	-4.52/-1.70	-5.03/-6.96	-10.41/-2.61	-3.43/-6.76	-7.57/-7.37	-2.08/-6.54	-4.61/-2.49	-3.68/-2.09	-4.35/-4.72	-6.98/-2.16	-3.98/-5.12	-3.60/-3.41	-2.03/-2.98	-4.08/-1.54	-6.86/-8.22	-2.05/-3.42	-2.99/-3.17	-1.31/-4.77	0.320/28	1.45/-6.25	-0.81/-5.82	0.81/-2.68	-12.31/-8.35	-7.77/-5.58
Θ(105°)	-15.99/-1.39	-12.96/-12.03	-9.28/-5.95	-3.28/-4.20	-3.69/-6.79	-3.74/-4.83	-5.51/-5.33	-5.32/-4.33	-5.04/-5.89	-5.02/-2.86	-5.02/-3.72	-6.75/-11.22	-2.73/-2.95	-2.24/-3.86	-7.15/-6.20	-4.82/-5.24	-1.10/-6.82	-4.39/-3.33	-0.23/-1.24	-0.31/-10.02	-6.41/-5.37	0.04/-2.07	-8.34/-9.64	-6.40/-2.63
Θ(112.5°)	-7.25/-14.72	-6.39/-9.37	-8.50/-8.53	-5.52/-7.34	-5.94/-5.55	-2.71/-6.35	-8.81/-3.41	-3.32/-5.85	-3.94/-5.82	-4.09/-4.98	-5.08/-2.42	-7.69/-5.58	-4.87/-9.99	-4.34/-3.84	-6.29/-5.88	-5.61/-4.14	-2.65/-3.19	-2.72/-4.00	-0.57/-1.83	-1.71/-3.32	-7.78/-5.71	-0.78/-2.72	-7.27/-8.14	-15.80/-3.07
Θ(120°)	-5.72/-8.64	-9.47/-10.53	-7.66/-5.32	-7.04/-5.04	-8.01/-6.74	-2.08/-6.54	-6.78/-7.44	-13.69/-7.43	-4.69/-5.06	-7.88/-5.18	-5.20/-4.40	-7.25/-9.63	-3.83/-5.45	-2.84/-3.01	-2.55/-10.69	-3.87/-7.62	-7.10/-2.15	-3.17/-6.59	-15.78/-9.10	-3.10/-1.55	-3.39/-9.53	-8.15/-6.39		
Θ(127.5°)	-4.84/-9.02	-11.27/-9.59	-14.77/-5.86	-6.70/-9.47	-7.50/-5.49	-3.21/-4.18	-7.41/-7.42	-7.26/-11.48	-8.71/-8.56	-7.03/-9.73	-6.56/-13.06	-6.23/-9.74	-10.19/-4.91	-7.65/-6.43	-2.81/-6.37	-3.87/-2.76	-3.44/-13.94	-8.66/-8.95	-7.37/-2.21	-5.37/-10.60	-8.96/-8.30	-9.57/-4.22	-4.88/-14.68	-14.22/-5.42
Θ(135°)	-15.44/-6.11	-5.49/-12.59	-9.75/-13.73	-11.07/-12.78	-11.11/-9.02	-5.93/-4.20	-3.69/-5.12	-7.62/-10.17	-6.84/-8.13	-7.13/-5.17	-7.41/-6.41	-9.81/-9.43	-9.72/-8.46	-6.09/-5.22	-3.65/-1.63	-6.17/-9.04	-12.08/-6.42	-3.97/-3.27	-4.34/-10.78	-9.11/-13.52	-6.94/-6.13	-14.72/-8.85	-4.90/-9.83	
Θ(142.5°)	-8.66/-11.46	-9.69/-10.43	-10.33/-10.67	-10.14/-13.46	-15.33/-11.21	-6.31/-5.96	-3.32/-6.68	-9.02/-7.50	-7.87/-7.97	-7.45/-4.22	-5.85/-6.86	-8.19/-12.30	-9.50/-8.14	-11.07/-11.23	-7.88/-8.82	-10.78/-8.62	-10.24/-6.97	-11.73/-7.91	-5.30/-4.65	-12.77/-7.11	-4.90/-6.67	-7.84/-11.20	-10.98/-10.03	
Θ(150°)	-15.47/-14.96	-12.73/-10.71	-14.00/-11.39	-12.82/-15.14	-11.21/-6.54	-6.01/-7.96	-6.12/-7.75	-9.29/-8.32	-14.87/-15.67	-15.53/-14.93	-12.16/-12.19	-11.52/-10.29	-8.17/-6.65	-6.62/-7.41	-10.51/-12.82	-13.68/-14.80	-14.68/-15.25	-10.46/-6.12	-4.44/-4.29	-5.19/-2.78	-2.05/-4.94	-12.97/-14.92	-16.05/-15.15	-9.39/-9.38
Θ(157.5°)	-6.17/-2.70	-9.48/-8.94	-7.21/-6.33	-6.82/-8.20	-8.22/-8.43	-8.10/-6.91	-6.05/-7.43	-9.07/-8.59	-9.88/-8.15	-8.39/-10.16	-12.01/-12.23	-11.37/-12.57	-14.22/-13.10	-13.88/-12.72	-14.08/-13.53	-10.40/-4.28	-8.05/-8.45	-8.09/-6.16	-4.24/-2.37	-3.04/-3.82	-6.79/-12.32	-11.76/-8.85	-8.91/-12.91	-11.25/-7.82
Θ(165°)	-8.60/-7.65	-5.84/-6.53	-6.84/-5.81	-6.64/-9.60	-8.90/-9.20	-7.27/-6.49	-6.98/-6.11	-8.53/-7.54	-6.55/-5.75	-4.58/-3.94	-3.40/-2.90	-2.69/-3.25	-3.94/-4.81	-6.06/-6.87	-6.76/-6.84	-5.53/-7.14	-8.96/-6.84	-8.35/-7.92	-8.12/-8.88	-9.24/-8.85	-6.62/-5.24	-4.53/-4.46	-5.72/-6.34	
Θ(172.5°)	-6.82/-6.36	-7.41/-6.48	-5.42/-6.11	-6.39/-5.69	-5.27/-4.85	-4.78/-5.73	-6.29/-8.27	-6.18/-6.12	-5.93/-6.40	-6.48/-6.69	-7.23/-7.41	-6.68/-7.58	-7.78/-7.12	-6.86/-7.04	-7.62/-8.18	-9.74/-12.01	-14.60/-14.85	-15.05/-15.26	-14.37/-10.80	-9.53/-9.59	-10.54/-12.81	-12.85/-11.18	-10.40/-9.12	
Θ(180°)	-7.67/-10.00	-9.43/-9.46	-11.46/-11.09	-10.16/-10.64	-10.32/-9.28	-8.69/-8.00	-7.89/-8.11	-7.75/-6.52	-5.55/-5.80	-6.47/-7.39	-7.52/-7.44	-7.76/-7.87	-7.12/-7.02	-6.31/-7.45	-8.75/-9.53	-10.67/-11.62	-12.68/-11.70	-11.17/-11.09						

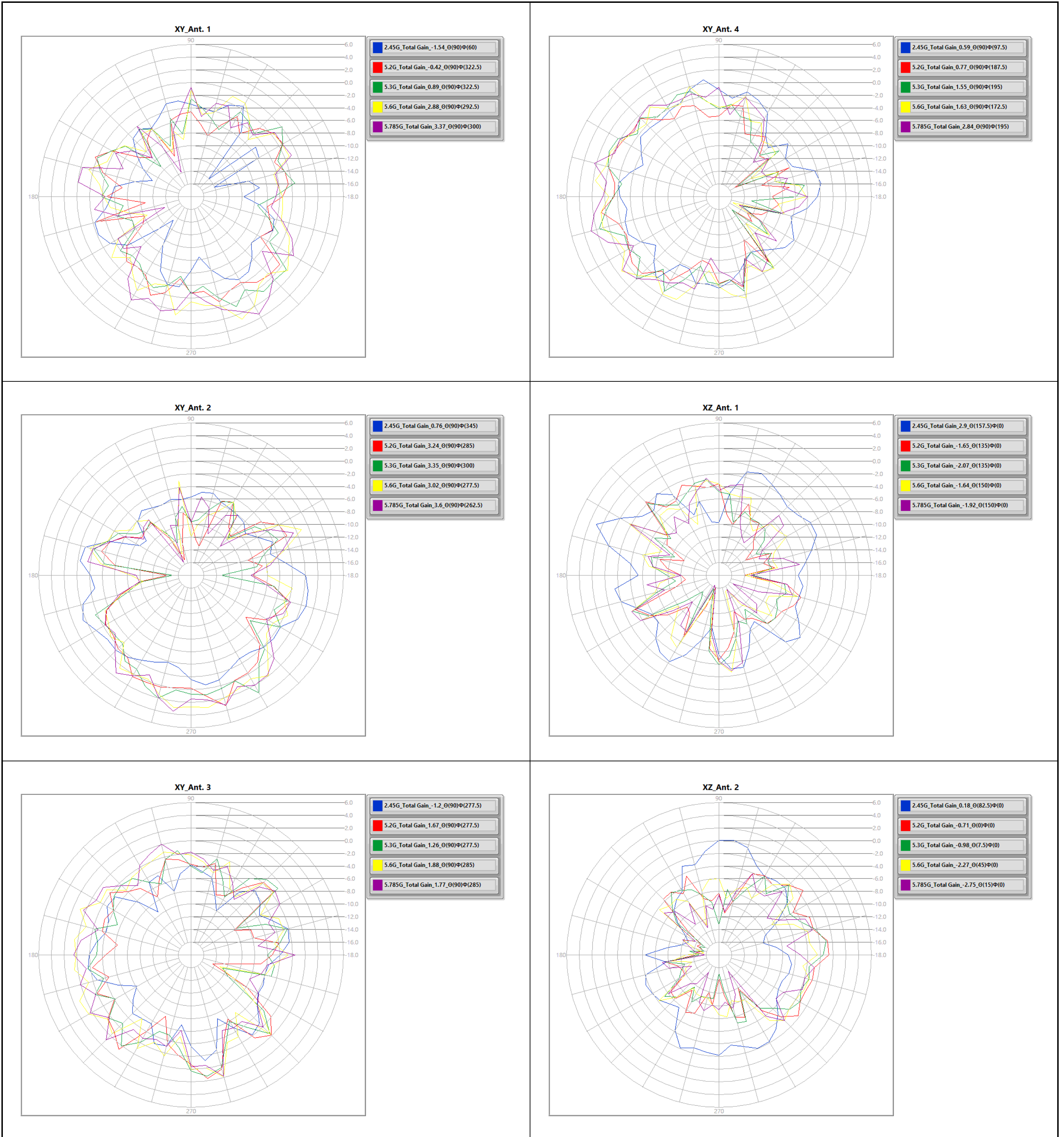


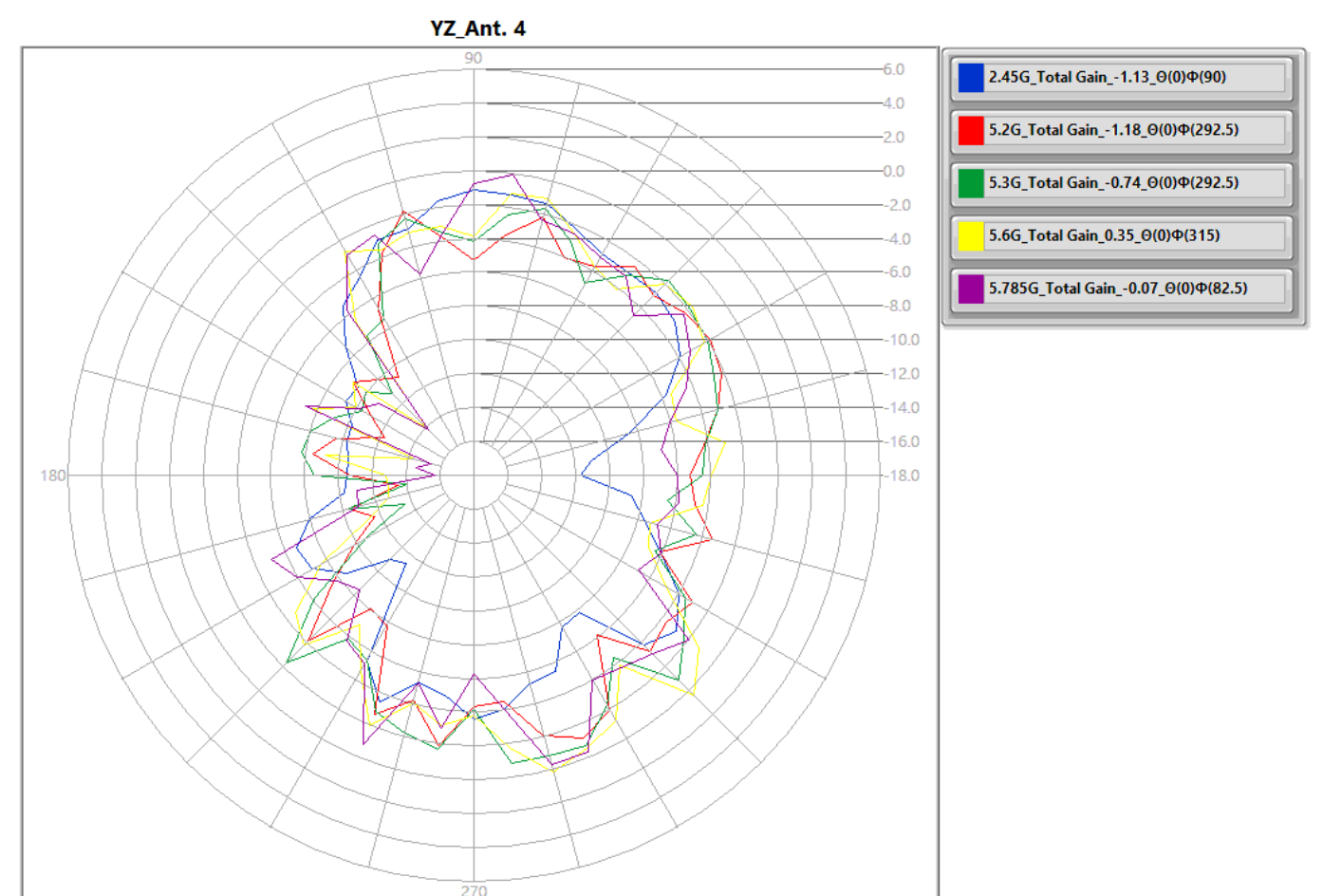
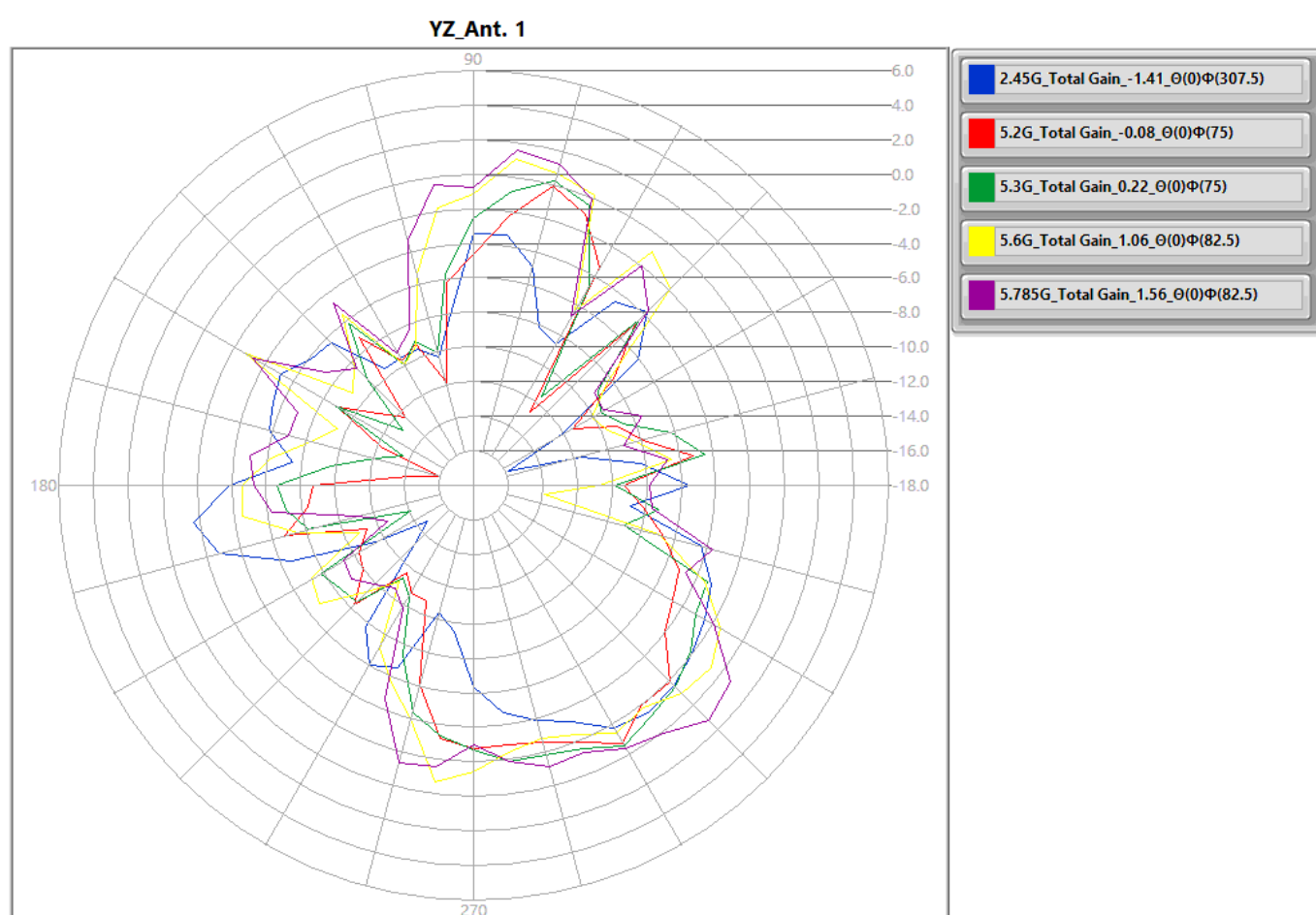
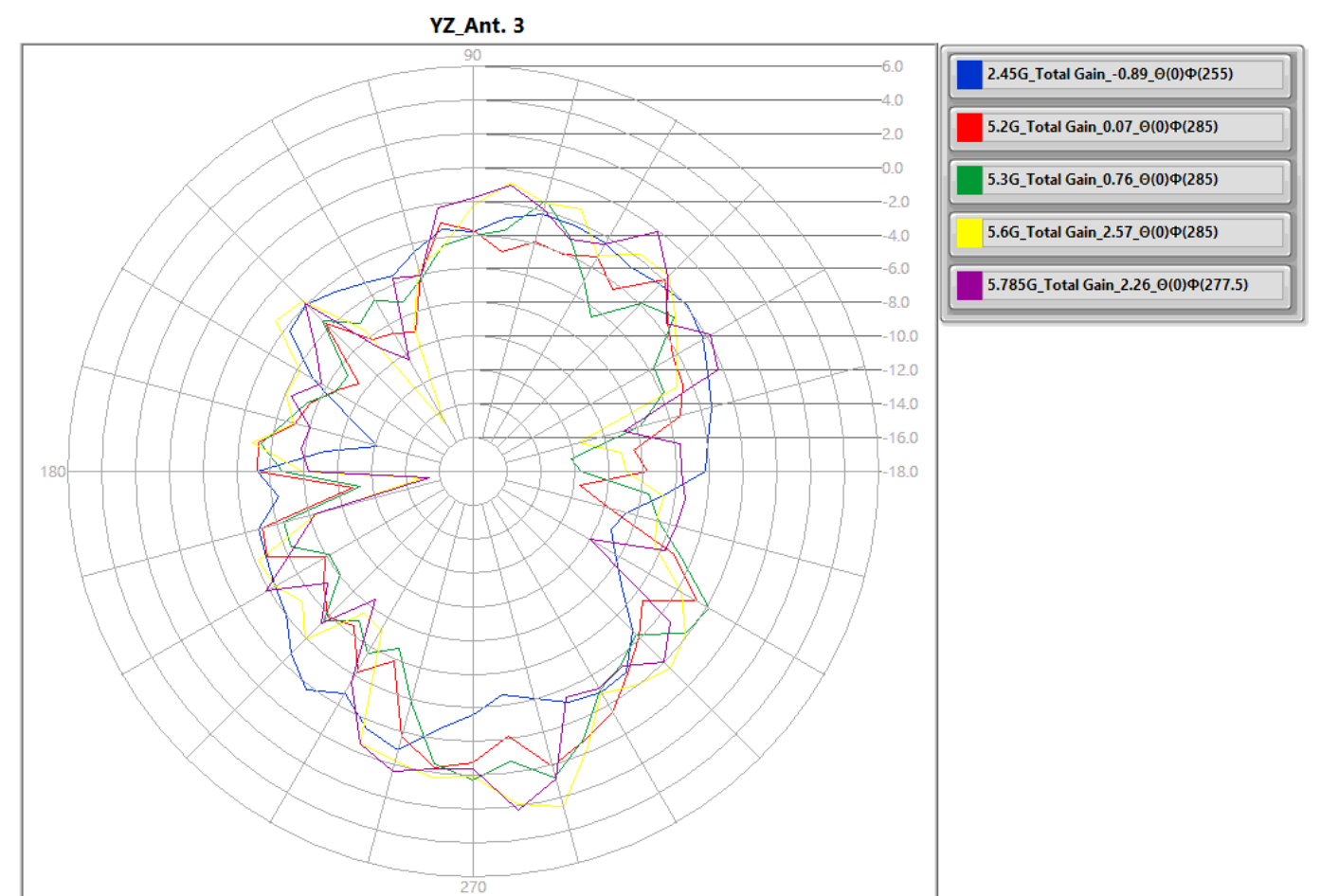
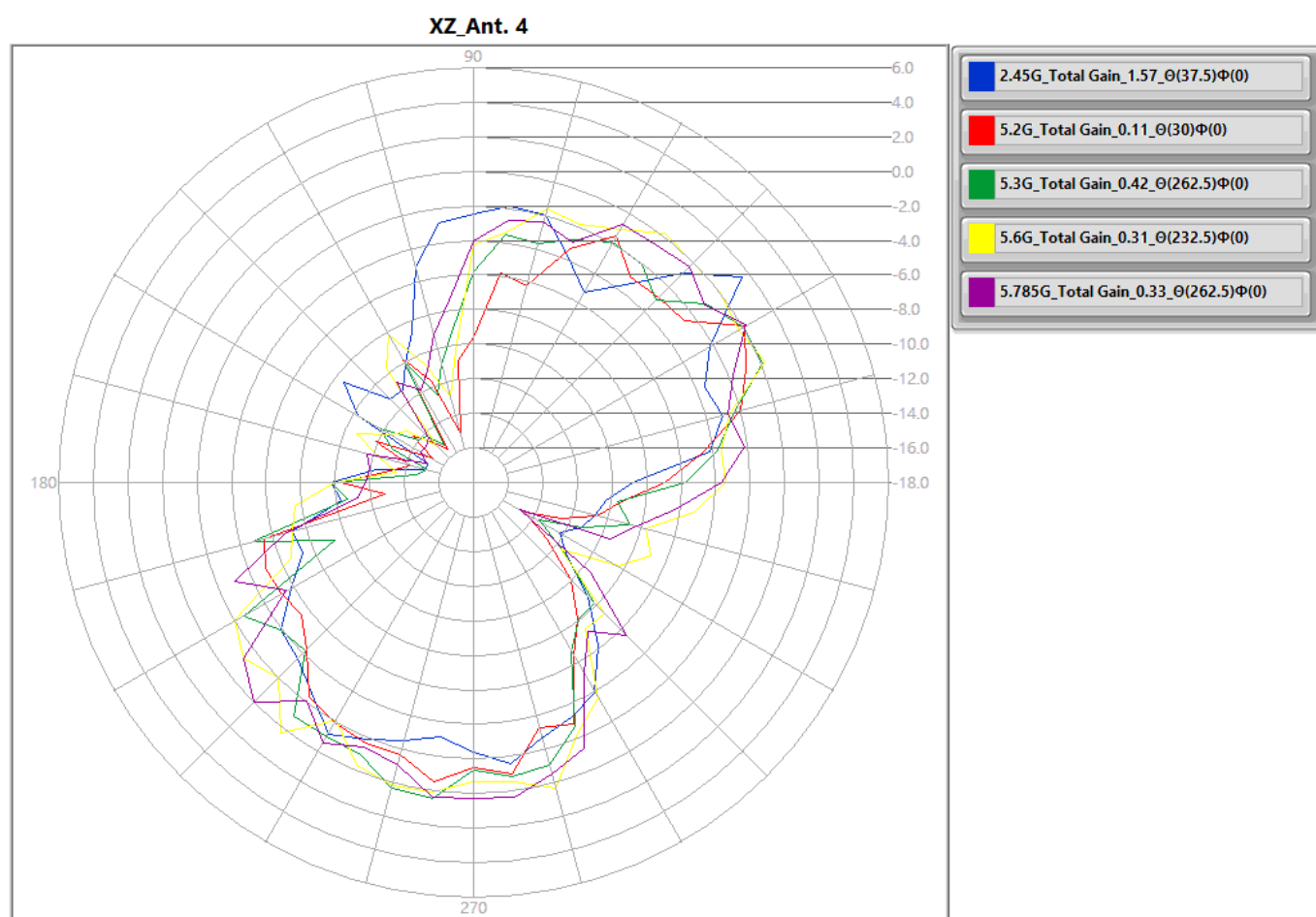
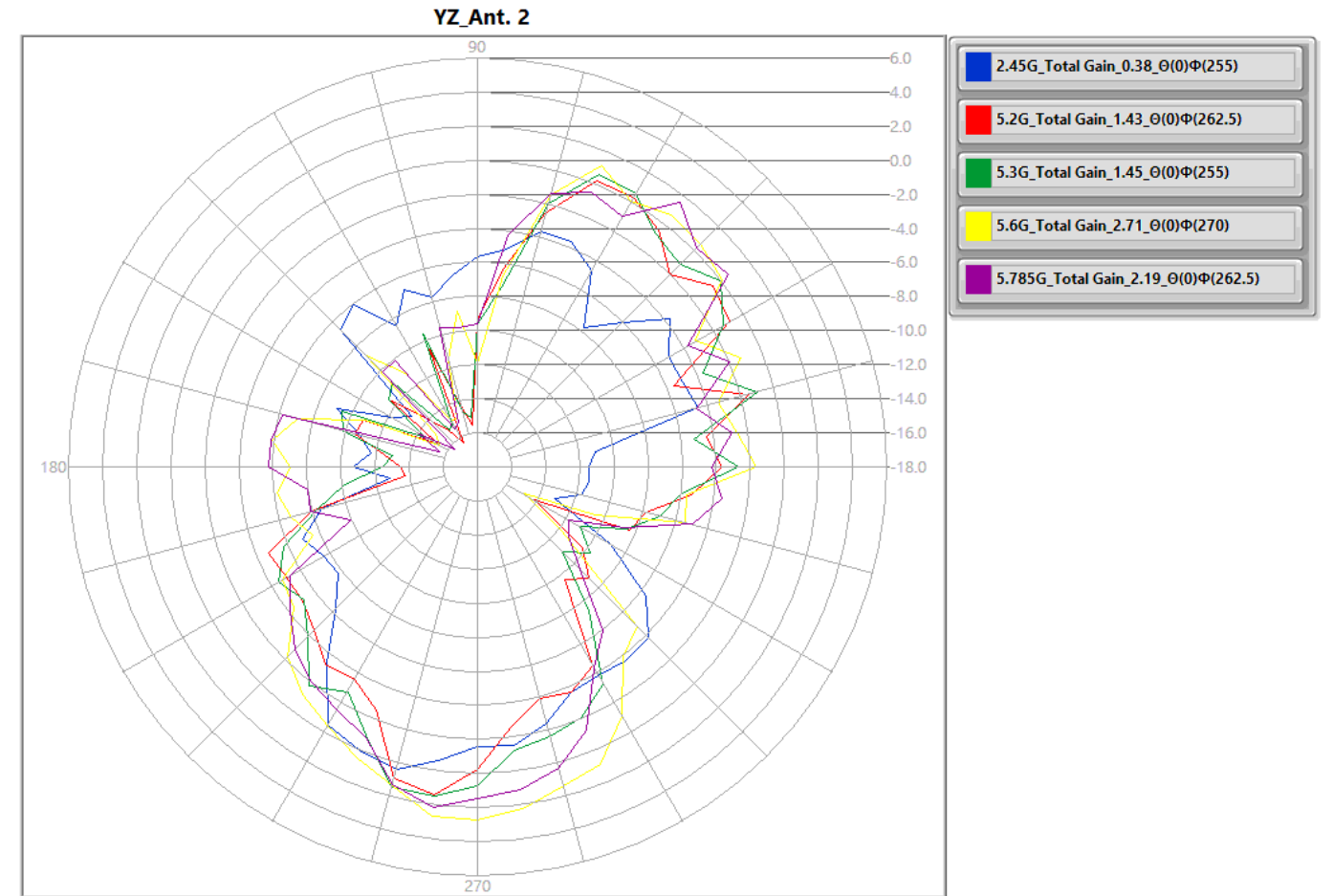
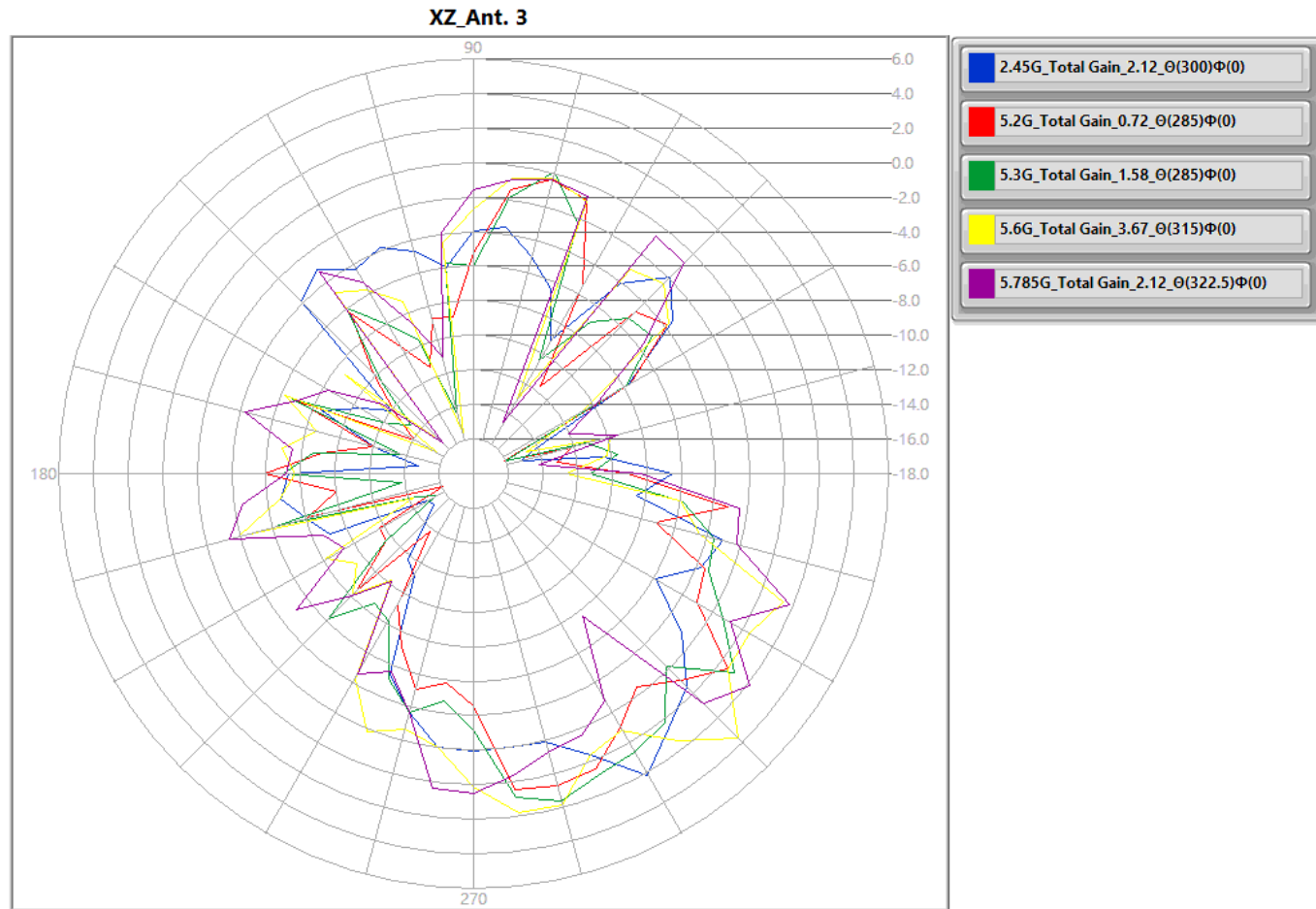
Antenna Pattern 2.4GHz and 5GHz U-NII 1~U-NII 3

Appendix D

Θ (172.5°)	-13.16/-13.58	-13.88/-15.70	-15.87/-13.56	-13.49/-13.01	-12.27/-11.51	-10.30/-9.36	-8.42/-8.23	-8.52/-9.24	-9.07/-9.57	-10.24/-10.13	-9.74/-11.57	-12.07/-11.16	-12.80/-12.53	-11.81/-12.21	-12.57/-13.80	-14.09/-13.11	-10.94/-10.21	-12.86/-15.06	-13.48/-12.11	-9.95/-7.55	-8.17/-11.03	-9.81/-9.96	-12.25/-12.49	-13.55/-12.80
Θ (180°)	-10.33/-10.28	-10.48/-11.17	-11.07/-11.21	-10.70/-10.76	-11.14/-11.11	-10.46/-10.43	-10.63/-10.23	-10.55/-11.75	-12.16/-12.16	-13.24/-14.37	-14.13/-13.34	-12.08/-11.56	-11.60/-12.13	-11.71/-12.00	-13.21/-13.83	-12.76/-11.77	-13.21/-14.98	-15.67/-11.32	-8.37/-6.55	-5.70/-5.55	-6.70/-7.75	-8.77/-9.87	-9.89/-9.50	-9.92/-9.84
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°)	-5.73/-5.60	-5.38/-5.77	-5.66/-5.44	-4.97/-4.88	-5.07/-5.13	-4.44/-4.39	-4.50/-3.71	-3.38/-4.14	-4.65/-4.00	-4.15/-4.98	-4.57/-5.61	-5.44/-5.35	-6.04/-5.23	-5.86/-6.56	-5.86/-5.04	-4.96/-5.13	-4.66/-4.92	-5.28/-5.34	-5.74/-6.08	-5.32/-5.87	-5.84/-5.89	-7.11/-7.39	-7.13/-7.37	-6.96/-6.96
Θ (7.5°)	-3.77/-3.59	-3.95/-3.93	-3.30/-3.18	-3.30/-2.70	-3.05/-3.47	-3.09/-3.69	-4.19/-3.35	-3.40/-3.55	-4.11/-5.32	-5.29/-6.21	-7.38/-8.02	-9.38/-8.58	-9.64/-8.81	-8.43/-10.09	-9.11/-7.66	-5.29/-5.05	-5.30/-5.30	-6.44/-6.72	-4.18/-4.70	-3.97/-4.06	-4.33/-3.77	-4.44/-4.23	-4.33/-3.77	-4.44/-4.23
Θ (15°)	-2.35/-1.96	-1.19/-2.01	-2.61/-2.32	-2.12/-1.52	-2.04/-2.50	-2.67/-3.71	-3.04/-2.57	-3.11/-3.03	-4.29/-5.04	-5.56/-6.62	-8.12/-8.70	-8.64/-7.72	-8.63/-8.92	-6.52/-6.45	-6.94/-8.72	-11.40/-9.42	-6.97/-6.24	-6.38/-5.95	-4.38/-3.04	-2.97/-3.47	-2.87/-2.69	-2.76/-2.26	-1.90/-1.58	-1.72/-1.85
Θ (22.5°)	0.13/-0.52	0.00/-1.15	-1.91/-0.99	-0.92/-0.99	-2.42/-2.29	-1.69/-2.31	-2.65/-3.41	-3.84/-5.04	-5.72/-6.11	-5.80/-6.84	-8.01/-8.57	-9.28/-10.24	-11.22/-11.58	-10.84/-11.31	-8.26/-7.92	-9.01/-7.27	-5.59/-6.76	-8.96/-9.08	-6.43/-4.83	-3.57/-2.25	-1.52/-1.27	-1.30/-1.72	-1.60/-0.99	-0.10/-0.15
Θ (30°)	0.01/-0.60	-0.74/-1.44	-1.35/0.08	-1.03/-1.65	-2.49/-1.58	-1.34/-1.17	-2.07/-2.24	-3.88/-4.20	-3.97/-6.03	-9.07/-9.91	-10.38/-10.44	-10.21/-9.12	-13.65/-10.53	-13.50/-11.43	-9.31/-8.32	-10.91/-8.29	-6.93/-9.73	-7.82/-4.97	-3.55/-4.25	-3.79/-4.00	-3.44/-1.25	-0.79/-1.77	-2.06/-0.74	0.29/0.30
Θ (37.5°)	-1.07/-0.99	-0.14/-0.77	-2.45/-0.07	-1.64/-1.23	-2.38/-3.00	-1.94/-0.12	-1.86/-1.60	-2.76/-5.15	-7.28/-7.57	-7.85/-9.01	-11.20/-11.36	-8.79/-6.82	-11.41/-9.15	-12.02/-14.40	-12.81/-9.70	-8.39/-9.82	-8.79/-7.39	-4.14/-3.16	-2.32/-2.38	-1.00/-1.66	-1.67/-1.20	-2.66/-3.03	-2.29/-1.41	-0.96/-2.26
Θ (45°)	-3.03/-3.71	-1.70/-0.73	-3.02/-3.21	-3.78/-2.26	-3.26/-2.38	-2.03/-1.69	-1.66/-1.48	-3.20/-7.06	-8.39/-7.45	-7.86/-8.09	-7.26/-7.97	-8.94/-8.64	-8.16/-9.65	-7.84/-9.66	-11.55/-8.43	-10.64/-7.89	-7.65/-6.55	-4.92/-1.42	-0.85/-2.73	-2.27/-3.72	-2.65/-2.62	-3.03/-2.12	-0.50/-0.07	0.37/-0.58
Θ (52.5°)	-2.06/-2.13	-0.39/-0.38	-1.71/-2.71	-4.08/-3.50	-1.42/-1.87	-2.30/-1.65	-3.07/-3.15	-4.30/-4.65	-5.80/-4.58	-5.65/-4.40	-6.80/-7.44	-6.30/-7.82	-8.04/-10.96	-8.21/-7.84	-6.66/-10.23	-3.84/-5.34	-8.49/-4.81	-3.50/-4.00	-4.46/-4.33	-3.41/-2.39	-3.31/-4.70	-2.48/-1.76	-1.84/-0.81	-0.06/-0.13
Θ (60°)	-1.98/-3.50	-0.71/0.38	0.15/-2.51	-1.61/-1.89	-2.04/-2.82	-2.48/-2.49	-4.85/-4.20	-3.64/-2.80	-3.87/-2.98	-3.51/-2.39	-3.78/-3.63	-3.79/-4.52	-6.69/-5.73	-4.77/-5.06	-5.45/-2.43	-3.03/-5.86	-7.49/-2.46	-5.54/-5.12	-2.29/-2.74	-1.23/-1.30	-2.09/-2.13	-4.19/-1.64	0.72/0.39	-0.13/-1.35
Θ (67.5°)	-2.80/-4.01	-5.52/-3.30	0.05/-1.09	-0.54/-1.90	-2.70/-3.08	-5.03/-3.34	-3.08/-2.20	-4.28/-2.57	-1.78/-1.28	-3.53/-1.35	-1.09/-1.03	-2.45/-2.89	-2.72/-3.60	-1.94/-3.42	-1.98/-4.57	-5.86/-3.49	-6.10/-1.90	-0.74/-1.30	-0.78/-4.02	-2.98/-0.69	-3.09/-2.59	-0.76/-1.23	-2.27/-3.03	-2.27/-3.03
Θ (75°)	-3.69/-2.58	-5.35/-6.60	-3.59/-0.77	-2.70/-3.05	-4.19/-2.44	-6.52/-3.36	-1.73/-1.88	-3.35/-2.83	-2.39/-2.03	-2.11/-1.18	-0.66/-0.60	-0.04/-1.01	-1.08/-1.40	0.70/-2.33	-1.39/-0.51	-0.57/-5.24	-2.32/-2.76	-7.16/-2.01	-0.87/-2.02	-1.94/-7.01	-4.76/-3.65	-4.33/-3.07	-4.36/-4.69	-4.21/-5.52
Θ (82.5°)	-3.53/-2.54	-6.35/-8.86	-10.87/-3.33	-6.13/-6.77	-5.97/-3.28	-5.84/-3.12	-2.46/-1.85	-1.55/-1.35	-2.02/-2.39	-0.69/-1.40	0.51/0.90	0.72/-0.50	-0.85/0.24	0.93/-0.84	-0.94/-0.90	-2.60/-2.61	-1.85/-3.89	-4.97/-1.09	-0.85/-3.74	-0.45/-2.36	-5.64/-5.11	-6.84/-4.74	-6.98/-11.71	-3.92/-7.94
Θ (90°)	-5.79/-4.43	-8.91/-7.91	-14.68/-6.12	-8.76/-8.40	-8.01/-4.86	-4.95/-3.34	-4.17/-2.16	-1.78/-1.28	-4.17/-2.16	-0.42/-1.82	0.32/0.72	0.11/-2.55	-1.35/-0.05	1.55/-1.94	-1.49/-2.38	0.39/-3.61	-0.79/-3.95	-6.67/-4.41	-4.17/-4.79	-2.65/-7.33	-7.84/-3.73	-15.12/-8.35	-10.69/-14.08	-7.44/-12.82
Θ (97.5°)	-9.04/-7.57	-9.87/-5.60	-13.84/-8.11	-6.13/-9.60	-7.55/-6.03	-3.35/-2.39	-3.54/-3.91	-1.56/-1.12	-1.15/-0.75	-1.00/-2.02	-0.90/-0.07	-1.30/-1.84	0.42/0.51	-2.34/-1.30	-1.58/-1.38	0.96/-1.34	-0.80/-3.75	-6.84/-3.48	-1.63/-3.30	-5.50/-9.60	-6.67/-4.28	-15.07/-9.94	-14.24/-11.58	-10.96/-11.36
Θ (105°)	-10.95/-10.67	-6.76/-9.11	-9.85/-6.02	-7.33/-8.02	-8.69/-6.14	-4.56/-3.62	-2.34/-3.27	-2.49/-1.36	-2.66/-2.36	-1.31/-0.51	-0.74/-0.95	-0.50/-1.21	0.32/-0.22	-1.73/-0.74	-1.49/-1.05	3.64/-3.39	-0.80/-3.88	-7.81/-5.59	-2.21/-3.82	-4.00/-6.21	-4.04/-1.23	-7.30/-10.47	-13.84/-14.39	-15.68/-10.59
Θ (112.5°)	-12.52/-8.51	-11.39/-9.37	-12.33/-9.51	-6.36/-9.22	-9.72/-9.25	-7.67/-3.84	-3.22/-1.35	-2.83/-2.22	-2.11/-2.34	-2.88/0.16	-0.28/-2.06	-0.96/0.38	-0.91/-1.71	0.01/-1.36	0.30/0.92	-0.02/-3.93	0.34/-4.87	-9.66/-3.71	-2.88/-6.51	-6.12/-11.87	-10.39/-5.00	-4.63/-11.96	-12.38/-15.15	-13.02/-9.78
Θ (120°)	-9.94/-10.90	-13.55/-14.57	-9.98/-9.93	-9.02/-10.40	-8.40/-13.32	-7.34/-5.77	-10.32/-6.02	-7.72/-3.92	-7.72/-4.11	-3.87/-2.42	-0.95/-2.18	-2.15/-2.69	-0.92/-1.18	-0.53/-3.36	-0.10/-0.98	-2.39/-2.24	-1.70/-5.16	-5.56/-3.96	-5.41/-9.76	-8.33/-7.19	-12.79/-12.77	-14.92/-15.24	-9.97/-7.48	-9.97/-7.48
Θ (127.5°)	-15.25/-10.94	-14.56/-13.72	-8.68/-9.92	-13.10/-11.16	-8.94/-8.87	-12.27/-10.52	-7.58/-8.36	-6.46/-4.73	-2.89/-3.09	-2.84/-3.30	-4.55/-3.14	-2.71/-1.16	-0.96/-1.74	-2.77/-3.05	-1.70/-3.66	-1.53/-1.92	-4.29/-9.78	-7.22/-5.94	-5.85/-9.81	-12.99/-13.77	-13.19/-15.88	-15.36/-7.96	-10.58/-14.96	-8.19/-10.22
Θ (135°)	-14.22/-13.81	-14.68/-15.14	-15.81/-15.88	-13.96/-13.70	-10.49/-7.35	-6.52/-9.42	-11.12/-8.18	-6.99/-5.60	-4.37/-4.12	-4.66/-3.05	-2.21/-1.71	-1.79/-1.22	-4.23/-4.72	-3.88/-2.31	-3.46/-2.64	-1.15/-5.18	-7.46/-9.22	-6.90/-3.54	-2.39/-6.60	-3.88/-14.31	-14.71/-13.66	-13.05/-12.78	-13.06/-15.15	-16.60/-14.90
Θ (142.5°)	-13.95/-15.52	-14.92/-15.59	-14.25/-15.34	-14.34/-13.23	-12.01/-11.02	-9.99/-9.02	-9.99/-9.71	-9.48/-7.09	-6.18/-6.66	-7.98/-7.22	-7.35/-5.96	-4.81/-3.43	-3.92/-3.54	-4.32/-3.57	-3.00/-1.21	-4.08/-9.89	-5.71/-5.85	-6.17/-5.46	-6.07/-9.40	-14.73/-15.02	-13.30/-15.21	-14.30/-13.97	-14.77/-13.18	-12.95/-14.90
Θ (150°)	-11.76/-12.68	-12.85/-15.14	-15.20/-11.88	-13.37/-15.57	-14.32/-11.36	-12.36/-10.63	-10.39/-12.17	-12.31/-9.66	-7.49/-5.96	-5.14/-4.91	-4.84/-3.91	-2.35/-1.51	-2.61/-5.24	-5.24/-4.87	-4.77/-4.08	-5.06/-6.67	-5.06/-3.64	-4.36/-7.10	-10.81/-11.80	-13.51/-15.14	-14.30/-12.07	-15.70/-15.18	-14.62/-15.69	-15.16/-14.37
Θ (157.5°)	-12.97/-13.71	-15.93/-14.34	-14.10/-14.48	-15.55/-13.28	-11.97/-12.79	-14.75/-11.60	-9.08/-8.95	-9.19/-8.06	-6.48/-5.87	-5.44/-4.79	-4.81/-4.58	-4.97/-7.52	-9.85/-7.04	-5.50/-4.33	-4.65/-6.43	-7.12/-6.76	-6.04/-5.20	-6.21/-9.48	-13.54/-14.42	-14.94/-15.92	-15.57/-15.33	-14.44/-10.84	-14.28/-13.95	-13.77/-12.25
Θ (165°)	-15.23/-15.17	-14.90/-16.01	-15.43/-15.18	-14.65/-16.09	-15.16/-11.68	-9.84/-9.72	-8.00/-7.24	-7.79/-7.87	-6.89/-7.49	-8.26/-6.65	-6.64/-5.82	-4.75/-5.13	-5.33/-5.00	-6.20/-9.06	-10.73/-10.23	-8.15/-6.51	-6.15/-7.91	-10.22/-12.22	-11.51/-10.65	-11.67/-13.40	-12.99/-15.35	-15.76/-14.31	-13.21/-15.85	-13.21/-15.85
Θ (172.5°)	-14.60/-15.03	-13.97/-12.63	-12.44/-12.25	-11.50/-11.65	-11.45/-10.27	-9.09/-8.49	-7.73/-6.69	-7.72/-8.27	-8.92/-9.74	-9.07/-9.15	-9.59/-9.68	-10.41/-11.47	-10.69/-10.90	-10.91/-10.83	-11.51/-12.77	-12.87/-12.74	-11.67/-10.50	-10.92/-13.52	-14.04/-9.74	-12.71/-12.72	-14.42/-14.96	-14.24/-14.96	-14.19/-15.64	-14.19/-15.64
Θ (180°)	-9.75/-10.18	-10.00/-9.35	-9.54/-9.15	-8.92/-9.21	-9.74/-9.51	-8.83/-8.63	-8.54/-8.97	-10.65/-10.41	-9.29/-9.71	-12.23/-13.32	-12.64/-12.44	-11.05/-10.24	-9.96/-9.83	-10.54/-12.06	-11.53/-11.76	-12.42/-12.68	-13.13/-15.10	-15.21/-11.56	-7.38/-6.79	-7.62/-6.44	-5.98/-7.89	-8.42/-8.73	-9.45/-8.43	-8.04/-9.15
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°)	-3.46/-3.38	-3.18/-3.48	-3.78/-3.84	-3.77/-3.62	-2.91/-3.32	-3.83/-3.88	-3.93/-3.08	-3.59/-3.81	-4.06/-4.26	-4.66/-4.28	-4.80/-5.45	-5.20/-5.48	-5.96/-5.24	-5.48/-5.87	-5.61/-5.42	-5.14/-5.38	-5.35/-4.97	-5.07/-5.17	-5.79/-4.18	-4.09/-5.11	-3.75/-3.46	-3.99/-4.30	-3.76/-3.39	-3.70/-3.65
Θ (7.5°)	-3.53/-3.04	-2.55/-2.85	-2.76/-2.95	-3.65/-3.91	-2.88/-3.22	-3.24/-2.95	-2.99/-3.39	-3.99/-4.79	-5.11/-6.53	-7.08/-6.90	-6.89/-6.67	-5.19/-5.29	-5.13/-5.80	-5.08/-6.01	-7.63/-6.25	-5.43/-5.82	-6.68/-5.51	-4.24/-3.79	-4.36/-4.79	-4.15/-4.67	-6.60/-5.07	-5.56/-6.17	-5.56/-6.06	-5.52/-4.36
Θ (15°)	-2.70/-2.28	-1.99/-1.41	-0.81/-1.35	-2.57/-3.45	-2.62/-3.14	-3.76/-5.24	-5.61/-6.33	-6.20/-5.82	-5.44/-5.96	-6.56/-7.60	-6.53/-6.56	-7.62/-7.45	-7.72/-8.31	-6.47/-6.04	-7.43/-6.04	-5.14/-6.00	-9.44/-9.97	-8.04/-8.01	-7.20/-5.29	-3.24/-2.32	-2.86/-2.86	-2.62/-2.18	-1.47/-2.28	-2.24/-2.72
Θ (22.5°)	0.27/0.40	0.18/-0.82	-1.04/-0.13	-0.41/-1.63	-1.65/-1.93	-2.91/-4.0																		

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 6GHz U-NII 5~U-NII 6

Appendix E

Total Gain Data

Freq(Hz)	6.175GPol.	TotalAnt. 1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-8.85-8.27	-8.27/-4.46	-7.91-8.55	-7.61/-9.07	-8.70-8.40	-7.50-8.32	-8.74-9.09	-9.02-9.46	-10.08-13.30	-9.56-9.52	-10.23-9.81	-9.94-12.36	-11.46/-11.58	-11.37/-11.51	-12.05/-11.89	-13.78-15.52	-15.17/-15.47	-15.22/-15.82	-15.44/-15.41	-14.98-13.88	-15.34/-12.66	-14.52-12.82	-10.40/-11.79	-11.40-9.82
Θ(7.5°)	-8.40/-6.65	-6.41/-5.48	-6.37/-2.70	-6.78/-0.05	-10.24/-10.91	-11.44/-12.72	-13.64/-14.17	-14.14/-15.57	-14.01/-12.92	-14.15/-15.30	-15.09/-15.27	-13.59/-15.75	-15.10/-15.06	-14.94/-14.38	-13.77/-12.92	-13.08/-10.70	-11.45/-12.23	-11.11/-14.18	-16.07/-14.38	-12.37/-11.83	-8.81/-9.16	-9.98/-10.97	-10.67/-10.12	
Θ(15°)	-8.86/-10.34	-7.98/-6.75	-6.40/-6.29	-7.12/-7.65	-7.52/-7.76	-6.81/-6.69	-5.00/-4.16	-4.68/-6.46	-7.18/-9.41	-11.83/-10.82	-10.27/-12.65	-10.05/-8.06	-11.28/-15.49	-14.09/-14.37	-14.66/-13.11	-11.96/-15.05	-15.38/-14.66	-15.80/-14.92	-11.81/-9.95	-9.15/-9.49	-8.79/-7.76	-5.95/-6.30	-4.73/-6.73	-7.67/-6.18
Θ(22.5°)	-5.82/-11.40	-5.46/-4.58	-4.95/-4.54	-9.32/-8.60	-3.00/-1.94	-2.75/-3.80	-4.33/-5.06	-5.00/-5.71	-4.85/-4.41	-5.72/-6.52	-6.60/-9.42	-7.50/-5.40	-10.55/-15.32	-11.11/-12.79	-10.23/-10.01	-9.46/-10.36	-9.39/-9.44	-8.26/-5.79	-6.52/-6.34	-7.66/-7.22	-8.60/-8.19	-8.59/-8.45	-7.95/-6.78	-7.34/-5.95
Θ(30°)	-5.06/-6.79	-6.80/-6.17	-2.61/-3.62	-8.26/-4.99	-2.90/-2.00	-3.74/-7.25	-5.40/-4.95	-4.40/-2.95	-3.72/-5.32	-6.43/-5.27	-5.85/-9.76	-7.93/-4.64	-5.73/-7.51	-5.71/-11.58	-8.13/-11.68	-10.88/-12.45	-15.59/-14.90	-14.45/-12.40	-10.92/-8.31	-9.88/-7.89	-7.04/-7.88	-7.51/-5.19	-5.72/-6.26	-3.29/-3.13
Θ(37.5°)	-2.26/-1.50	-5.58/-5.79	-1.86/-1.00	-3.43/-4.20	-0.85/-1.92	-5.44/-6.94	-4.03/-1.80	-2.60/-3.45	-3.75/-5.70	-6.56/-4.22	-8.06/-5.49	-5.37/-5.21	-3.14/-6.39	-8.57/-7.94	-8.83/-6.75	-7.15/-5.12	-4.94/-5.80	-7.78/-6.51	-3.87/-3.76	-3.32/-3.19	-3.29/-4.22	-5.84/-3.30	-3.22/-5.95	-2.18/-5.47
Θ(45°)	-3.17/-1.76	-2.68/-1.39	-1.42/-1.70	-1.81/-2.46	-1.04/-0.41	-0.34/-2.97	-1.65/-1.64	-3.86/-2.97	-2.92/-2.08	-1.30/-3.03	-3.62/-3.45	-2.76/-3.97	-3.52/-2.77	-6.59/-4.06	-4.22/-5.51	-5.56/-6.36	-8.89/-6.63	-6.57/-10.05	-14.15/-10.40	-4.69/-3.30	-2.71/-5.73	-6.07/-4.62	-5.12/-2.54	-2.65/-1.13
Θ(52.5°)	-1.55/-3.26	-3.250/-3.66	-2.29/-2.00	0.13/-3.44	0.480/-4.0	-1.08/-1.79	0.590/-2.5	-1.57/-2.06	-1.82/-0.93	-2.65/-1.68	-1.25/-1.54	-2.88/-2.72	-1.40/-2.76	-4.74/-2.81	-3.45/-6.81	-6.29/-5.43	-4.90/-5.01	-4.65/-0.74	-0.52/-0.41	-0.93/-2.01	-2.30/-0.82	-2.77/-2.46	-4.17/-3.28	
Θ(60°)	-1.57/-0.98	-0.74/-3.39	-1.960/-1.0	-0.46/-3.32	-1.180/-1.1	-2.86/-3.31	-1.530/-0.53	-1.71/-0.97	-1.08/-1.63	-0.33/-0.91	-0.72/-1.10	-1.26/-3.25	-1.39/-3.53	-2.67/-4.52	-8.30/-6.79	-2.21/-2.72	-9.03/-9.50	-4.20/-4.92	-7.30/-5.44	-4.41/-3.67	-5.63/-7.67	-4.10/-5.16	-4.84/-3.09	-2.39/-2.52
Θ(67.5°)	-2.29/-2.32	0.28/-4.68	-2.610/-6	-0.46/-0.03	-2.230/-68	-0.45/-2.93	-3.43/-0.87	-1.540/-0.4	-0.40/-1.75	-0.20/-0.96	-2.21/-3.46	-1.85/-2.41	-1.75/-3.15	-4.02/-6.03	-3.21/-3.36	-5.48/-3.73	-2.38/-0.65	-0.96/-2.17	-1.19/-3.24	-3.58/-3.82	-1.73/-0.29	-0.10/-3.61	-1.07/-2.60	-2.61/-1.73
Θ(75°)	-1.74/-4.11	-5.56/-3.05	-2.86/-0.17	-2.23/-1.23	-2.36/-3.05	2.41/-1.38	-1.70/-1.53	-3.490/-49	0.53/-2.34	-1.64/-2.59	-2.41/-4.20	-0.76/-1.40	-1.71/-2.09	-4.64/-1.11	-2.18/-0.25	-3.950/-51	-3.23/-2.40	-7.35/-3.96	-5.38/-4.12	-2.33/-1.60	-5.03/-3.09	-2.40/-5.16	-1.75/-0.70	-3.59/-2.62
Θ(82.5°)	-2.17/-0.97	-4.46/-5.70	-4.23/-3.01	-3.88/-1.51	-2.29/-4.41	-1.00/-1.71	-0.600/-0.9	-1.970/-37	-0.01/-3.46	-0.25/-1.87	-2.42/-2.64	-2.64/-3.24	-1.90/-5.08	-4.84/-7.61	-1.15/-1.47	-1.14/-4.77	-2.09/-1.89	-1.55/-2.48	-1.94/-2.02	-4.09/-2.18	-0.24/-2.66	-0.92/-1.20	-6.50/-4.93	-3.41/-2.81
Θ(90°)	-1.67/-2.74	-3.20/-7.06	-7.06/-1.80	-1.72/-3.34	-1.79/-2.07	-0.60/-2.69	-0.42/-1.12	-1.01/-1.15	-1.86/-1.53	-0.52/-0.95	-5.50/-2.14	-4.72/-6.52	-1.36/-4.46	-1.88/-3.78	-1.45/-2.82	-0.880/-61	-0.880/-28	-2.51/-0.74	1.41/-0.88	-1.31/-1.87	-2.47/-4.47	-0.39/-2.13	-3.28/-2.58	-1.93/-10.05
Θ(97.5°)	-2.81/-3.27	-4.07/-6.29	-5.96/-1.54	-4.36/-6.93	-7.51/-1.92	-0.95/-6.99	-5.71/-4.87	-5.88/-3.08	-2.26/-4.49	-2.81/-2.08	-3.64/-4.18	-3.43/-6.57	-0.48/-3.49	-6.37/-2.56	1.15/-2.32	-2.080/-37	-3.680/-0.1	-4.72/-4.86	-0.20/-2.17	-2.17/-2.23	-4.66/-8.60	-1.30/-5.83	-5.59/-5.69	-1.15/-0.94
Θ(105°)	-4.43/-3.14	-4.09/-5.54	-5.91/-6.00	-3.46/-3.46	-7.01/-6.45	-5.56/-4.23	-2.28/-1.85	-2.89/-2.90	-4.35/-4.57	-6.97/-5.73	-7.58/-3.38	-3.91/-4.42	-1.78/-4.09	-4.19/-4.77	-0.79/-5.90	-4.68/-2.16	-5.83/-2.06	-3.12/-7.73	-3.94/-6.79	-3.54/-6.02	-7.43/-7.99	-2.96/-4.49	-4.10/-4.13	-2.34/-1.69
Θ(112.5°)	-3.12/-3.25	-5.45/-6.60	-8.83/-5.72	-3.20/-5.93	-4.86/-5.68	-5.44/-6.55	-6.53/-7.73	-6.99/-8.51	-6.23/-9.93	-4.09/-8.04	-5.36/-3.17	-6.84/-2.51	-2.550/-14	-8.01/-5.99	-1.68/-3.45	-3.440/-11	-7.24/-6.42	-6.78/-8.47	-8.12/-14.61	-8.23/-5.95	-8.99/-13.90	-5.80/-12.72	-6.13/-4.82	-4.02/-6.09
Θ(120°)	-4.66/-2.23	-7.42/-7.37	-3.14/-6.22	-4.05/-11.1	-15.48/-4.94	-5.78/-4.12	-6.13/-4.71	-8.56/-4.22	-7.03/-5.73	-5.84/-9.80	-6.95/-4.37	-5.07/-1.78	-2.25/-2.07	-4.88/-6.40	-2.00/-1.93	-2.12/-0.13	-5.56/-6.79	-6.52/-11.25	-5.22/-13.44	-7.14/-14.88	-4.95/-9.81	-7.77/-8.63	-7.57/-5.67	-6.91/-6.62
Θ(127.5°)	-6.98/-5.24	-8.24/-10.40	-6.30/-4.15	-4.40/-5.58	-5.44/-13.13	-8.79/-6.68	-7.42/-9.45	-7.39/-9.89	-9.17/-5.17	-6.00/-5.18	-5.21/-4.88	-6.73/-2.93	-3.13/-3.73	-6.74/-9.63	-6.42/-9.12	-2.51/-5.64	-10.44/-15.67	-7.46/-8.65	-6.35/-10.04	-9.60/-3.87	-8.44/-11.06	-10.70/-8.70	-7.44/-5.36	-2.49/-1.47
Θ(135°)	-5.67/-7.45	-11.21/-12.30	-15.23/-8.77	-11.79/-7.25	-10.42/-6.39	-7.99/-6.65	-8.31/-8.02	-8.57/-7.39	-8.53/-8.38	-11.13/-9.78	-6.31/-8.26	-6.69/-5.93	-4.86/-4.60	-7.68/-10.50	-9.51/-6.02	-8.43/-6.58	-5.64/-9.30	-7.17/-12.81	-8.28/-9.00	-13.73/-15.05	-12.43/-12.78	-11.49/-12.54	-10.24/-12.30	-8.52/-9.36
Θ(142.5°)	-11.50/-10.40	-11.26/-10.99	-15.63/-15.13	-11.79/-13.76	-8.07/-11.04	-6.70/-9.65	-10.77/-9.65	-10.96/-9.78	-8.10/-9.75	-6.70/-7.1	-11.53/-9.13	-6.83/-5.20	-5.61/-8.02	-10.86/-9.32	-6.57/-5.90	-7.46/-10.27	-14.32/-8.41	-12.72/-7.88	-12.86/-15.25	-13.90/-13.97	-14.97/-15.74	-13.02/-16.29	-12.15/-11.98	-10.16/-9.86
Θ(150°)	-8.81/-9.13	-10.29/-11.82	-13.68/-12.87	-15.70/-14.00	-14.88/-13.78	-14.19/-11.97	-12.01/-11.97	-13.91/-12.18	-12.98/-10.70	-10.67/-8.51	-9.64/-9.37	-9.57/-8.61	-8.58/-8.13	-9.58/-8.58	-12.28/-9.40	-10.89/-10.05	-8.53/-9.71	-13.79/-14.86	-10.98/-11.66	-9.91/-7.68	-7.44/-10.28	-6.31/-10.11	-15.99/-10.57	
Θ(157.5°)	-10.62/-9.73	-8.49/-9.20	-9.98/-13.46	-13.44/-11.58	-13.23/-14.99	-14.12/-13.11	-14.91/-15.83	-14.46/-13.28	-13.56/-14.55	-15.20/-14.65	-9.35/-6.75	-7.24/-8.97	-10.06/-8.79	-8.24/-11.58	-9.41/-9.41	-13.51/-9.15	-9.96/-15.07	-14.13/-14.90	-14.53/-10.46	-10.65/-11.08	-12.26/-11.98	-14.64/-12.13	-11.41/-11.94	-12.95/-12.79
Θ(165°)	-11.75/-11.01	-10.58/-11.30	-10.88/-11.07	-14.40/-16.00	-15.52/-15.88	-13.34/-13.98	-13.41/-14.65	-14.98/-14.48	-15.08/-11.77	-11.46/-8.99	-8.90/-8.01	-8.53/-8.11	-8.07/-9.90	-11.17/-9.06	-7.18/-9.28	-12.16/-12.09	-12.90/-11.07	-8.07/-8.54	-8.32/-11.37	-14.01/-10.70	-13.30/-15.20	-14.07/-14.63	-15.38/-14.38	-14.64/-13.79
Θ(172.5°)	-12.57/-13.48	-14.79/-15.43	-14.90/-13.78	-15.50/-15.46	-15.36/-12.46	-12.71/-13.36	-11.63/-12.25	-11.73/-13.46	-13.40/-15.63	-15.33/-13.68	-11.45/-10.52	-13.23/-11.16	-10.60/-10.71	-11.75/-15.90	-14.37/-13.16	-13.60/-11.58	-13.43/-13.80	-14.51/-11.92	-14.19/-12.09	-12.32/-12.49	-12.32/-12.49	-13.42/-12.49	-13.42/-12.49	-13.42/-12.49
Θ(180°)	-12.34/-13.04	-14.55/-13.73	-14.27/-14.31	-12.75/-12.29	-12.04/-11.47	-12.84/-14.63	-14.92/-15.58	-15.00/-14.82	-13.82/-12.39	-10.47/-12.09	-14.95/-15.13	-13.46/-13.32	-13.98/-15.09	-15.49/-15.43	-15.49/-14.79	-13.11/-12.40	-12.87/-15.26	-14.37/-13.97	-15.02/-14.84	-14.92/-14.62	-13.83/-14.48	-13.27/-12.30	-11.60/-12.31	-12.94/-12.73
Freq(Hz)	6.475GPol.	TotalAnt. 1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-12.39/-13.24	-13.70/-14.32	-14.22/-13.73	-13.16/-11.45	-13.65/-12.35	-12.62/-12.82	-13.18/-13.64	-14.26/-15.15	-14.94/-15.41	-15.28/-13.23	-14.70/-15.65	-14.05/-13.71	-12.40/-12.63	-12.10/-11.80	-11.14/-11.77	-10.94/-11.85	-11.46/-13.37	-11.43/-12.08	-12.96/-12.85	-13.02/-13.61	-14.60/-14.63	-15.71/-13.88	-13.08/-13.66	-14.06/-13.71
Θ(7.5°)	-8.20/-8.40	-8.31/-8.68	-9.68/-10.75	-11.47/-10.93	-9.41/-8.39	-7.49/-7.02	-5.36/-5.53	-4.54/-5.56	-6.99/-7.52	-8.04/-9.06	-9.47/-11.52	-11.60/-11.81	-15.46/-14.71	-15.46/-15.72	-14.26/-12.27	-8.58/-9.96	-9.68/-9.28	-10.59/-11.41	-13.47/-15.05	-15.25/-15.11	-14.38/-12.75	-12.04/-11.79	-12.25/-7.76	-8.52/-8.33
Θ(15°)	-6.28/-6.63	-6.61/-6.89	-9.12/-11.74	-8.29/-6.38	-5.90/-5.82	-5.12/-3.92	-3.46/-3.37	-3.87/-4.41	-4.29/-4.54	-4.92/-6.78	-7.28/-9.36	-9.44/-11.17	-9.54/-8.54	-10.07/-11.28	-9.92/-10.04	-13.65/-14.82	-14.38/-15.66	-15.77/-15.13	-15.66/-12.96	-11.66/-8.94	-7.53/-6.69	-7.17/-7.87	-6.92/-7.13	-6.95/-7.49
Θ(22.5°)	-8.26/-7.67	-8.60/-7.59	-8.74/-7.03	-2.77/-2.07	-7.24/-7.03	-4.91/-5.15	-5.94/-5.02	-4.13/-3.42	-4.73/-6.75	-11.84/-10.68	-6.86/-6.52	-8.19/-11.83	-6.09/-6.88	-12.92/-10.47	-11.53/-15.16	-15.00/-12.08	-8.26/-8.42	-9.82/-6.80	-5.63/-6.27	-7.47/-9.28	-9.85/-12.03	-8.38/-9.82	-8.21/-9.85	-4.85/-4.28
Θ(30°)	-7.96/-4.39	-4.27/-2.66	-6.54/-0.84	-4.23/-4.23	-3.84/-7.05	-4.20/-2.82	-1.55/-1.78	-3.69/-5.74	-6.31/-5.88	-4.41/-6.85	-6.41/-5.85	-8.09/-7.80	-6.82/-7.71	-5.83/-4.98	-9.37/-6.58	-8.95/-7.08	-7.80/-11.99	-11.02/-8.97	-7.10/-4.58	-3.27/-3.52	-3.04/-5.60	-5.90/-3.89	-4.99/-3.54	
Θ(37.5°)	-2.89/-4.71	-4.56/-1.05	-4.74/-4.98																					

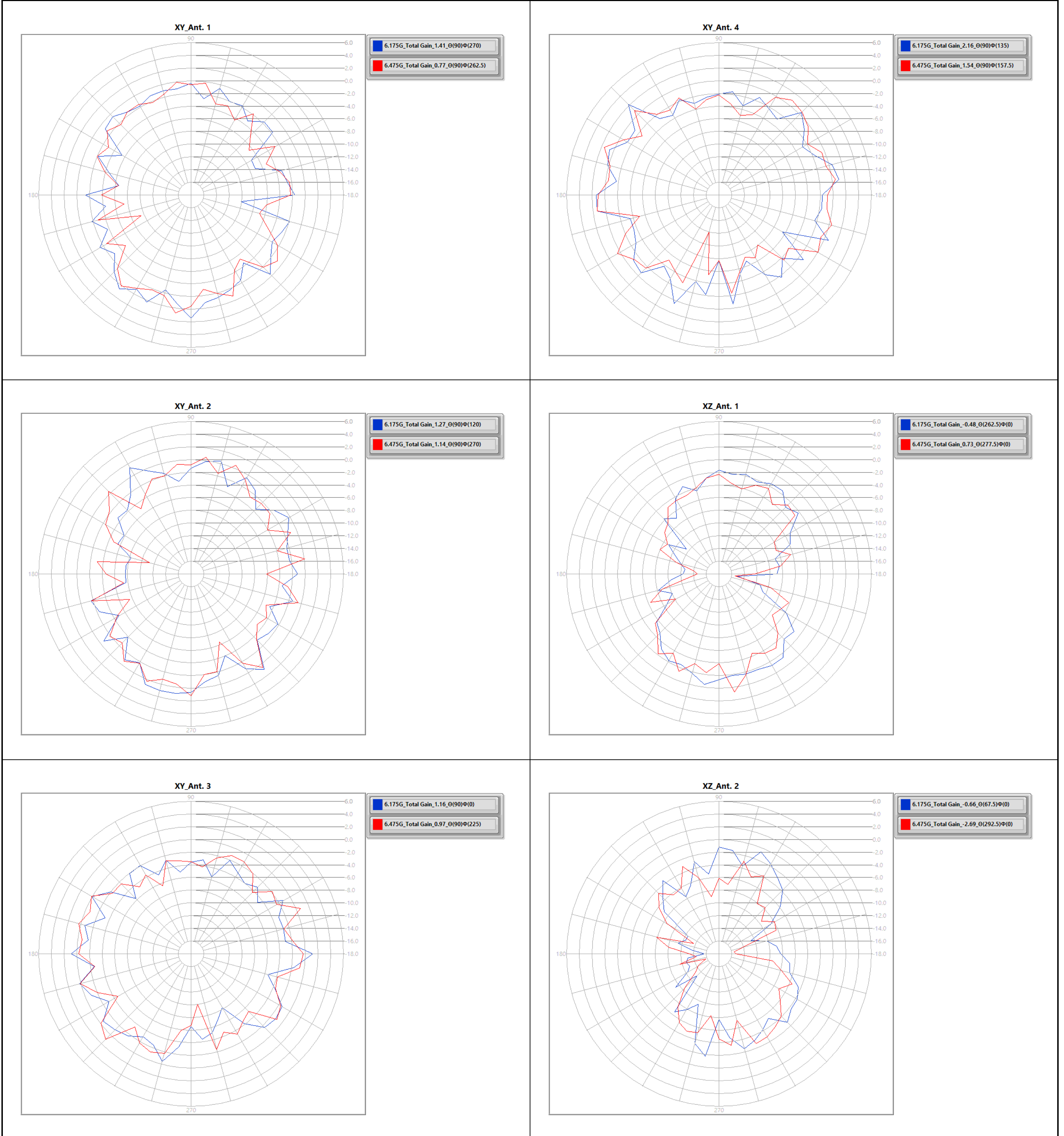


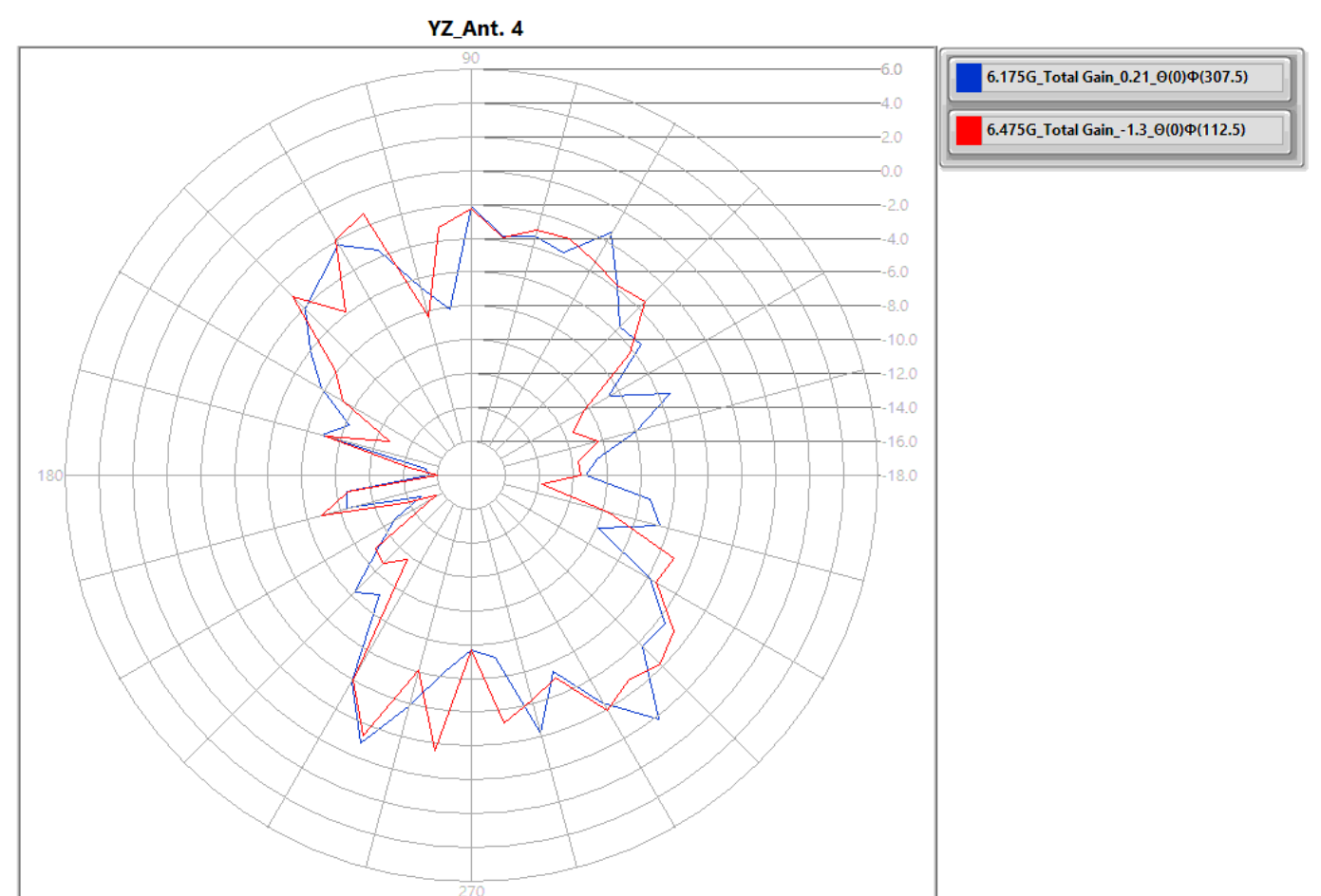
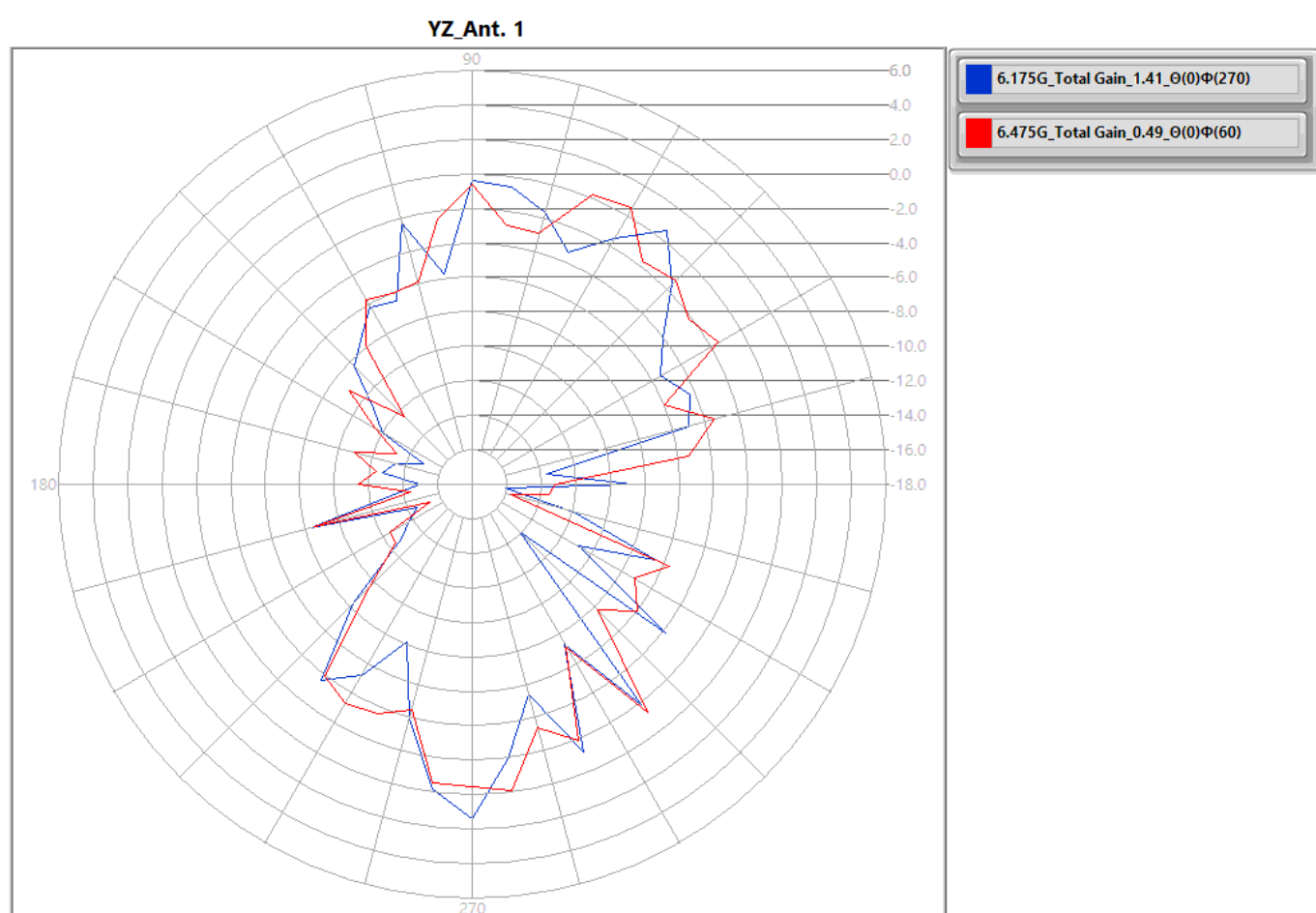
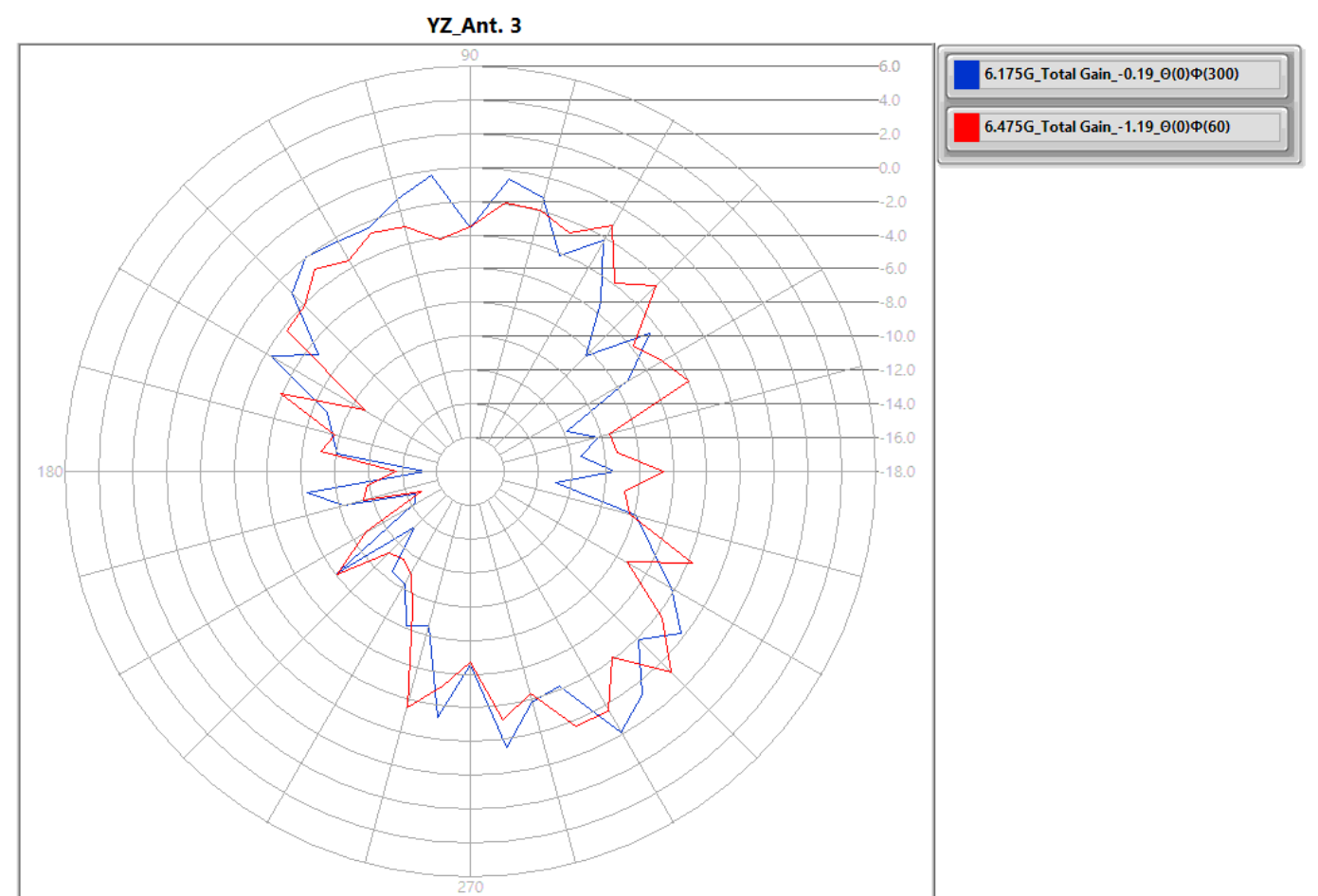
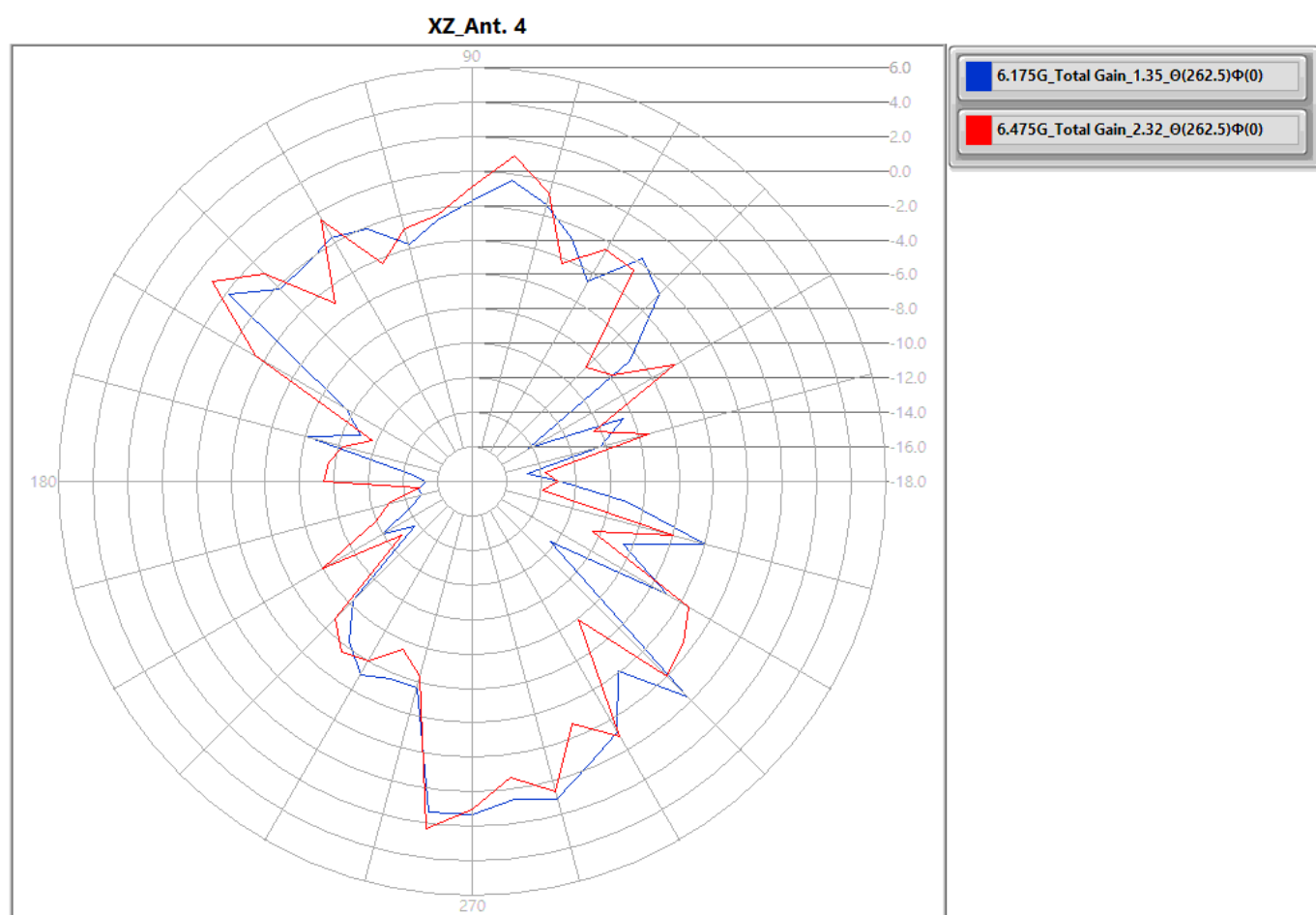
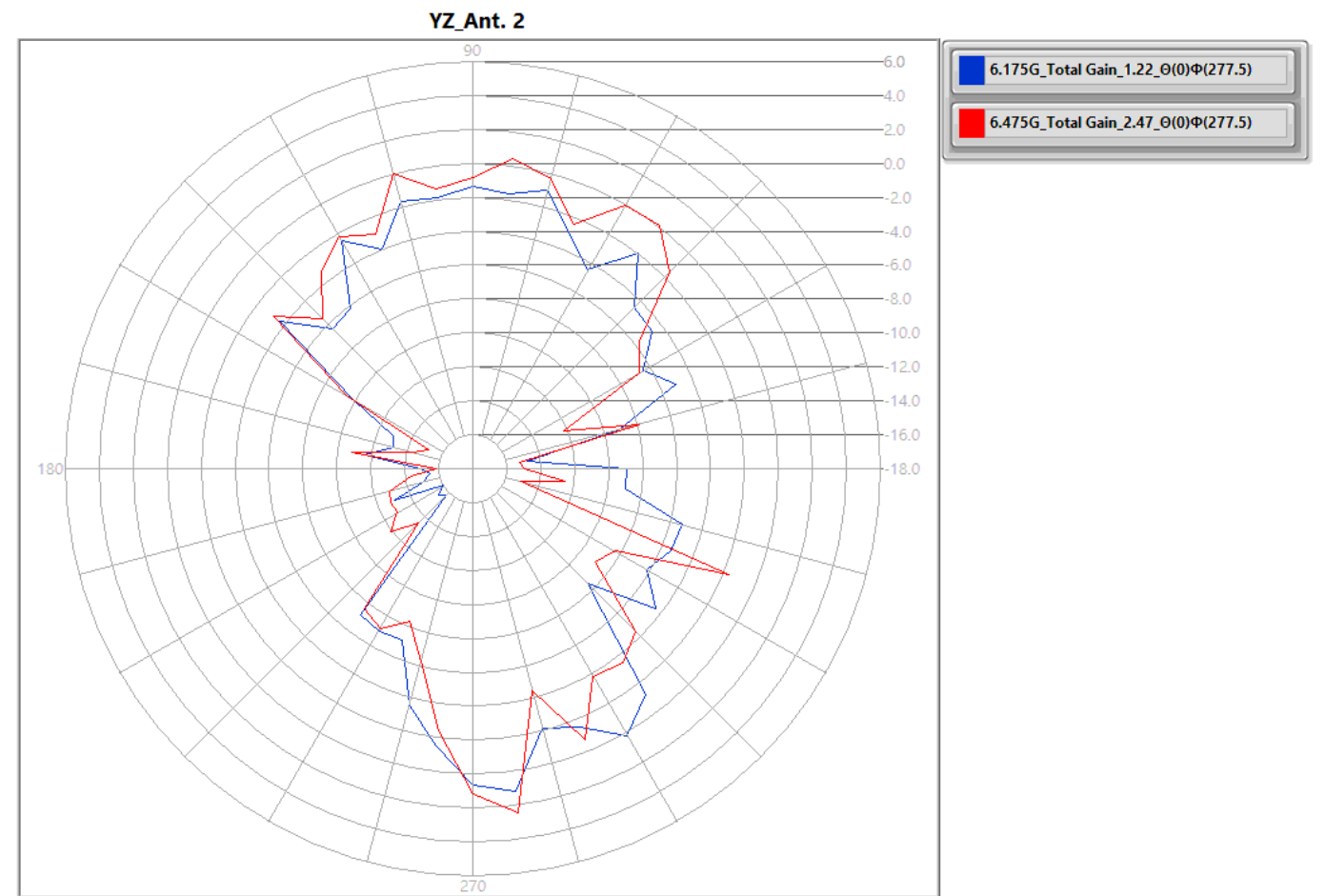
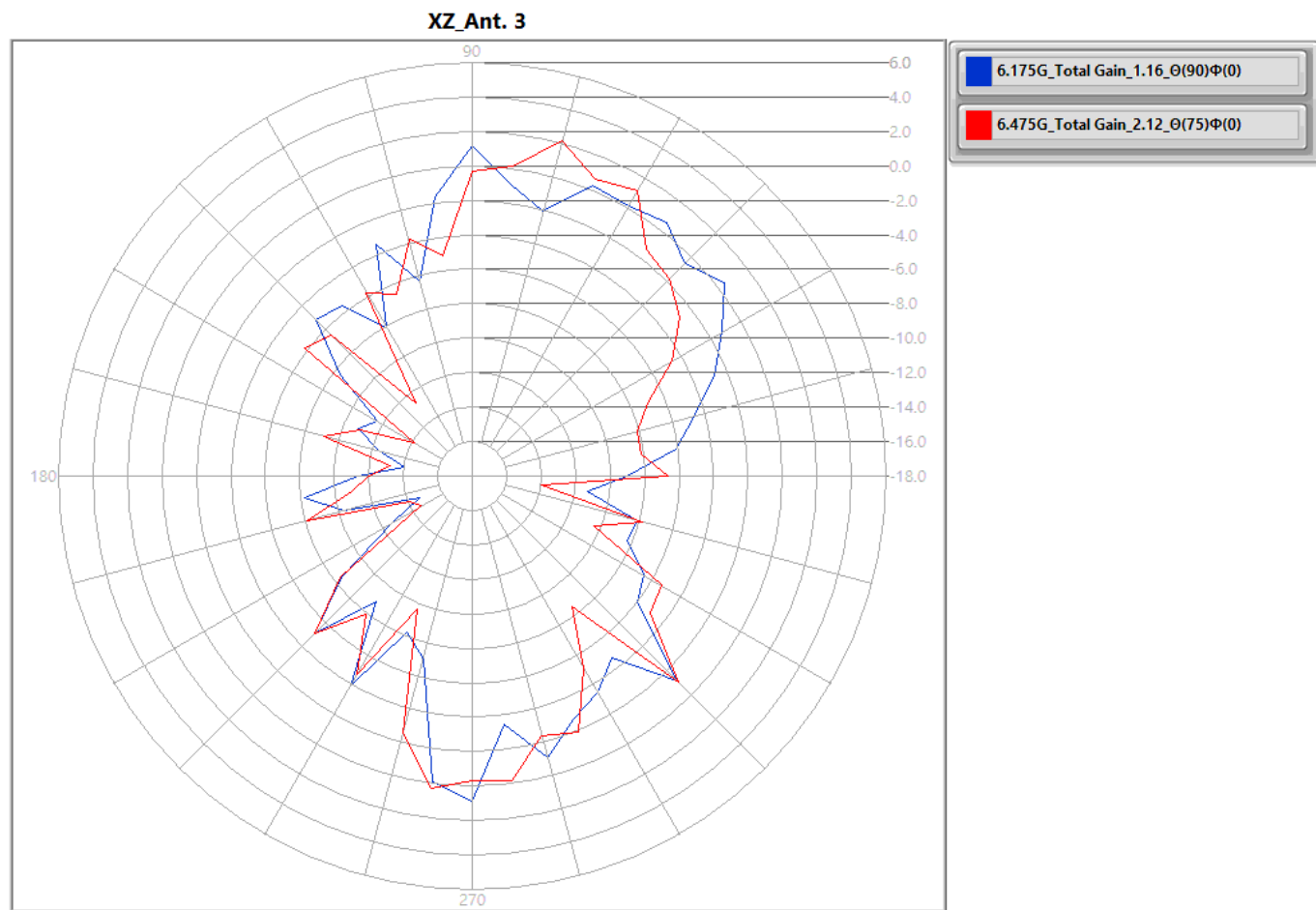
Antenna Pattern 6GHz U-NII 5~U-NII 6

Appendix E

Θ(22.5°)	-2.76/3.82	-6.66/6.17	-5.60/4.13	-4.91/-4.70	-3.72/5.35	-6.26/8.45	-11.78/7.23	-8.16/8.65	-5.44/-8.21	-15.15/12.14	-10.97/13.90	-9.57/8.18	-8.24/9.55	-8.91/6.75	-3.69/-5.35	-6.31/-10.55	-8.06/-4.79	-3.86/-4.70	-6.44/6.08	-2.79/-4.34	-6.57/4.50	-4.18/-4.10	-3.81/-3.60	-2.17/-1.27
Θ(30°)	-1.23/-1.67	-5.03/-7.10	-6.71/-5.41	-3.77/-2.65	-4.23/-7.90	-4.70/-6.46	-7.21/-4.22	-6.40/-7.67	-5.51/-6.17	-7.19/-6.26	-4.21/-2.32	-4.25/-5.92	-6.52/-8.31	-7.04/-5.04	-3.73/-4.29	-4.00/-5.81	-5.86/-5.06	-5.08/-2.81	-4.26/-6.18	-3.97/-3.50	-0.98/-0.80	-2.96/-1.23	-4.42/-3.64	-0.92/-1.04
Θ(142.5°)	0.54/-0.21	-1.58/-1.91	-2.95/-3.25	-3.31/-2.28	-4.40/-4.81	-3.23/-3.99	-4.60/-3.91	-6.62/-6.94	-6.83/-7.83	-11.38/-10.95	-8.84/-13.73	-9.73/-7.54	-5.92/-6.25	-6.31/-5.40	-6.40/-10.26	-3.88/-4.36	-3.67/-4.24	-4.06/-3.49	-2.22/-2.47	-3.32/-3.09	-0.14/-0.34	-1.53/0.43	-2.14/-1.69	-0.120/-29
Θ(45°)	-0.52/-1.19	-2.27/-2.27	-1.51/-1.15	-1.08/-5.72	-2.84/-3.11	-2.44/-3.02	-8.29/2.55	-6.98/-4.14	-6.86/-4.57	-3.36/-1.19	-4.85/-1.47	-2.13/-3.29	-1.162/-81	1.80/-2.26	-3.04/-4.40	-4.23/-4.69	-3.09/-2.69	-3.90/-4.52	-3.92/-3.01	-1.32/-1.94	0.46/-3.36	-1.61/-1.05	-1.17/-1.41	-1.47/-2.64
Θ(52.5°)	0.54/0.88	-1.42/-4.38	-0.98/-2.15	-1.97/-0.97	-0.67/-1.59	-3.65/-2.39	-5.35/-0.11	-2.97/-5.67	-6.32/-1.89	-7.34/-15.56	-5.09/-1.84	-3.32/-2.60	-4.67/-3.22	-2.60/-4.68	-5.03/-1.65	-1.24/-1.64	-3.23/-6.00	-1.16/-3.42	-1.32/-4.30	-1.30/-1.34	-0.69/-0.23	-2.46/-1.29	-5.10/-0.31	-1.49/-1.78
Θ(60°)	0.120/0.05	0.12/-0.05	1.33/-0.01	1.42/0.51	1.08/-1.57	-2.23/0.45	-2.21/-1.51	-5.54/-0.83	-4.47/-6.71	-3.50/-1.55	-3.10/-3.58	-4.65/-8.98	-3.47/-0.72	-1.13/-5.23	-3.13/-2.93	-2.59/-2.74	-3.09/-0.89	-2.07/-1.07	-0.19/0.59	-1.58/-2.71	-0.58/0.05	-2.11/0.33	-3.30/-0.12	0.53/-1.07
Θ(67.5°)	0.29/0.54	0.64/0.49	1.67/0.34	1.97/-2.47	-0.85/0.48	-1.04/-0.51	-4.13/-3.88	-0.96/-0.91	-6.24/-1.79	-4.18/-6.68	-1.79/-1.57	-2.24/-2.53	-2.70/-6.81	-3.19/-1.67	-1.32/-2.44	-1.26/-6.25	-4.44/-3.21	-3.10/-6.67	-4.21/-2.90	-0.00/-3.96	-3.19/-0.24	-1.35/-0.65	-1.49/-1.90	0.91/0.65
Θ(75°)	-2.11/-1.80	-1.35/-1.11	-0.05/-0.47	-0.43/0.34	-0.07/-0.28	-1.29/-3.06	-1.21/-0.78	-2.97/-2.33	-0.13/-5.62	-2.22/-2.15	-1.62/-3.45	-2.80/-3.98	-1.07/-3.10	-1.31/-3.70	-0.87/-3.21	-5.75/-3.05	-7.80/-4.21	-5.52/-2.91	-3.86/-5.13	-2.68/-3.24	-2.61/-2.17	-2.12/-0.00	-0.31/-0.55	-2.42/-1.31
Θ(82.5°)	-0.93/-2.39	-0.28/-0.82	0.36/-0.96	-1.67/0.96	-0.11/-4.15	-2.08/-0.97	-0.56/-1.81	-3.14/-4.84	-3.60/-3.46	-1.61/-2.79	-4.24/-3.73	-3.49/-3.46	-0.95/-0.99	-7.63/-1.58	-2.67/-6.68	-3.31/-2.09	-4.34/-6.76	-1.53/-1.71	-2.12/-1.51	-5.74/-1.90	-3.61/-1.32	-1.16/-1.36	-3.84/-0.06	
Θ(90°)	1.16/-3.02	-2.91/-3.01	-1.25/-4.75	-3.19/-4.04	-3.26/-2.11	-5.43/-3.11	-3.62/-5.02	-2.79/-4.55	-1.98/-2.12	-5.68/-2.06	-0.02/-3.33	-0.66/-1.65	0.90/-2.65	0.17/-1.01	-3.03/-0.55	-1.06/-1.73	-2.93/-2.51	-0.43/-3.21	-6.58/-4.45	-5.18/-6.84	-8.19/-4.18	-1.58/-1.19	-1.40/-3.66	-5.47/-1.65
Θ(97.5°)	-1.69/-2.90	-1.97/-4.16	-1.53/-2.84	-3.84/-2.67	-5.58/-3.81	-4.24/-5.77	-0.32/-4.32	-4.12/-3.90	0.01/-1.30	-1.58/0.65	1.79/-6.76	-0.29/-4.63	-0.12/-2.05	-1.59/-0.91	-1.178/-0.85	0.62/-1.97	-1.75/-1.89	0.23/-4.26	-3.33/-4.70	-2.12/-4.81	-10.51/-7.71	-3.74/-5.11	-4.24/-5.29	-3.35/-1.87
Θ(105°)	-6.27/-4.62	-13.87/-1.98	-6.47/-6.22	-6.90/-7.25	-3.66/-1.93	-5.59/-7.32	-1.30/-4.15	-6.25/-1.66	0.20/-1.23	-3.39/-0.53	-0.69/-7.39	-0.81/-5.02	-6.99/-5.62	-5.79/-0.65	-1.16/-4.30	-1.43/-5.49	-3.07/-2.95	-4.61/-5.59	-8.53/-6.52	-2.20/-6.06	-7.92/-5.04	-2.95/-3.73	-3.96/-7.88	-6.13/-7.56
Θ(112.5°)	-3.48/-12.65	-5.56/-9.41	-4.01/-8.25	-8.85/-4.45	-8.57/-5.02	-5.59/-2.54	-2.36/-4.17	-2.49/-5.98	-2.60/-4.22	-2.28/-6.09	-8.67/-8.50	-5.06/-3.19	-8.18/-9.48	-6.51/-7.36	-13.50/-7.17	-5.55/-10.62	-8.17/-4.50	-7.21/-6.25	-8.08/-5.41	-3.27/-6.91	-3.71/-12.35	-6.32/-8.27	-3.00/-7.49	-7.99/-2.64
Θ(120°)	-8.03/-5.29	-8.31/-0.58	-4.79/-3.39	-8.43/-4.50	-6.52/-3.10	-1.73/-5.06	-2.28/-2.03	-1.56/-4.66	-2.69/-0.81	-3.76/-5.10	-6.90/-7.46	-4.29/-6.96	-3.94/-7.85	-5.25/-6.91	-13.72/-7.59	-7.71/-12.73	-11.80/-4.51	-7.24/-5.75	-10.29/-4.22	-5.37/-11.41	-5.16/-4.30	-4.16/-5.94	-6.90/-10.20	-9.76/-11.00
Θ(127.5°)	-5.52/-9.16	-13.62/-10.96	-5.24/-12.25	-7.43/-4.47	-6.98/-8.03	-4.79/-8.04	-2.03/-2.05	-2.93/-3.60	-3.62/-3.22	-4.62/-4.82	-6.04/-6.20	-4.33/-5.93	-8.83/-10.56	-16.18/-6.54	-6.91/-12.43	-14.08/-4.62	-6.05/-2.07	-4.67/-8.51	-10.49/-7.17	-6.02/-7.57	-7.55/-4.44	-7.55/-4.33	-7.21/-9.18	-6.38/-6.52
Θ(135°)	-5.21/-10.82	-8.38/-10.03	-8.80/-6.61	-4.19/-3.51	-8.62/-7.44	-11.13/-6.68	-3.09/-3.56	-4.27/-11.06	-5.85/-7.81	-10.07/-8.37	-5.27/-8.04	-11.33/-7.37	-5.12/-11.30	-13.00/-14.80	-5.19/-15.06	-8.29/-7.11	-11.23/-10.64	-7.92/-12.03	-13.39/-7.45	-7.34/-8.90	-12.52/-9.24	-10.00/-14.08	-8.41/-8.32	-8.07/-4.73
Θ(142.5°)	-8.40/-6.68	-8.42/-13.13	-9.99/-4.92	-8.28/-7.88	-5.71/-7.34	-7.88/-6.66	-6.66/-5.44	-4.30/-14.19	-8.53/-10.63	-6.83/-10.62	-9.22/-15.72	-8.71/-12.26	-11.88/-13.45	-14.86/-10.62	-7.66/-13.76	-14.12/-15.68	-8.06/-8.09	-10.69/-12.92	-12.96/-12.14	-10.88/-6.49	-6.39/-9.80			
Θ(150°)	-11.61/-14.81	-14.64/-13.64	-6.58/-9.96	-1.67/0.96	-4.92/-4.22	-9.39/-13.53	-7.08/-4.06	-4.38/-7.69	-7.14/-8.31	-11.19/-10.03	-10.71/-12.47	-13.20/-8.30	-12.69/-9.40	-11.26/-12.87	-14.58/-11.48	-14.42/-12.90	-11.66/-7.83	-14.26/-15.03	-12.59/-11.07	-9.65/-12.73	-15.93/-14.11	-12.37/-11.96	-12.17/-14.44	
Θ(157.5°)	-10.85/-11.80	-12.82/-11.27	-10.61/-10.45	-12.01/-10.52	-12.14/-10.02	-9.55/-12.93	-8.87/-7.61	-7.24/-6.83	-12.19/-15.52	-11.12/-6.98	-7.44/-11.74	-13.64/-15.09	-14.68/-13.42	-7.70/-6.35	-4.68/-8.03	-11.35/-14.54	-10.66/-11.20	-9.80/-9.92	-14.46/-15.32	-12.93/-11.56	-12.44/-12.55	-11.12/-9.37	-9.67/-11.57	-12.95/-10.01
Θ(165°)	-12.39/-9.65	-10.33/-9.07	-8.73/-8.47	-10.91/-13.46	-15.49/-15.15	-12.02/-10.44	-9.53/-9.51	-11.80/-12.47	-8.92/-8.60	-7.39/-10.25	-14.77/-15.15	-13.78/-12.03	-10.30/-10.46	-10.88/-11.76	-11.70/-10.03	-9.20/-7.63	-7.88/-9.14	-8.28/-8.56	-10.22/-11.87	-13.68/-14.06	-13.16/-11.48	-12.47/-12.19	-11.49/-12.79	-13.34/-10.98
Θ(172.5°)	-14.01/-11.06	-11.18/-12.41	-14.32/-14.34	-12.49/-11.74	-11.22/-9.88	-8.91/-8.63	-10.08/-12.04	-13.50/-12.04	-10.94/-9.28	-8.86/-10.90	-12.50/-9.38	-8.05/-7.85	-8.15/-9.46	-9.34/-10.94	-9.69/-10.93	-9.20/-10.96	-9.72/-8.95	-9.55/-8.88	-8.25/-9.90	-11.14/-13.16	-14.52/-14.27	-15.54/-14.93	-15.28/-15.39	-15.77/-14.38
Θ(180°)	-11.35/-12.62	-9.89/-10.27	-9.01/-10.44	-9.71/-11.31	-9.68/-9.94	-13.10/-14.49	-15.32/-15.53	-14.09/-12.98	-13.42/-14.91	-13.50/-13.06	-11.29/-11.59	-12.03/-13.31	-13.20/-12.91	-13.78/-13.95	-15.43/-16.11	-14.44/-15.71	-13.79/-13.57	-13.66/-12.69	-12.23/-12.25	-13.28/-13.83	-12.81/-12.10	-11.01/-10.53	-10.50/-9.72	-10.11/-13.01
Freq(Hz)	6.4750Pol.	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°)	-6.62/-7.04	-7.63/-7.57	-7.66/-9.24	-8.15/-8.51	-7.55/-8.92	-7.35/-6.78	-6.58/-6.15	-5.06/-4.64	-4.70/-5.84	-4.80/-5.49	-5.81/-6.01	-5.20/-6.74	-6.24/-8.29	-7.59/-8.02	-8.13/-8.61	-8.69/-9.77	-8.08/-8.57	-8.16/-7.93	-7.10/-6.63	-6.10/-5.67	-5.70/-5.38	-5.85/-6.46	-5.82/-6.17	-7.13/-7.28
Θ(7.5°)	-8.14/-7.44	-8.11/-7.63	-8.75/-7.03	-6.55/-5.23	-4.13/-4.23	-6.69/-8.62	-9.20/-9.92	-10.28/-10.45	-10.64/-11.50	-10.52/-10.18	-11.87/-10.75	-12.48/-14.18	-13.94/-14.45	-12.15/-10.71	-11.74/-10.32	-13.64/-10.90	-10.86/-10.77	-8.81/-6.27	-5.37/-4.25	-4.13/-3.73	-4.49/-8.70			
Θ(15°)	-8.07/-6.24	-4.93/-4.28	-3.61/-4.24	-7.33/-8.41	-5.07/-3.61	-5.65/-7.95	-9.49/-8.50	-8.26/-9.68	-9.03/-8.19	-8.63/-7.62	-10.50/-13.62	-10.30/-6.51	-7.79/-8.20	-8.06/-7.88	-6.13/-6.08	-6.41/-6.08	-9.04/-11.85	-11.98/-8.87	-8.25/-7.97	-9.16/-7.71	-4.10/-1.44	-1.25/-2.87	-5.43/-7.46	-8.73/-8.97
Θ(22.5°)	-6.96/-3.90	-2.85/-2.84	-3.50/-5.69	-5.90/-5.08	-6.93/-5.87	-7.14/-4.19	-3.98/-7.49	-8.55/-6.65	-7.41/-7.89	-9.96/-14.92	-10.30/-14.99	-13.83/-12.85	-10.38/-12.08	-15.22/-12.08	-9.65/-8.48	-8.11/-7.37	-2.89/-4.30	-6.48/-4.56	-3.78/-3.35	-7.33/-5.45	-4.63/-5.35	-4.31/-4.44	-3.44/-2.95	-4.67/-6.14
Θ(30°)	-4.62/-2.37	-1.28/-0.88	-1.02/-1.65	-3.03/-4.27	-3.90/-4.33	-4.57/-5.18	-4.86/-9.68	-7.98/-8.49	-11.27/-7.40	-8.43/-9.39	-4.53/-5.33	-4.42/-5.03	-5.33/-4.99	-4.60/-3.00	-3.67/-3.74	-3.06/-3.31	-4.34/-3.82	-6.42/-5.36	-7.26/-1.88	-2.06/-1.57	-5.33/-3.09	-2.74/-1.72	-2.19/-1.69	-1.62/-3.86
Θ(37.5°)	-2.87/-3.67	-3.31/-3.34	-4.49/-5.90	-2.38/-2.06	-2.66/-4.03	-6.39/-8.75	-5.78/-10.29	-4.73/-6.14	-5.98/-3.30	-2.83/-6.80	-6.36/-3.92	-7.12/-4.32	-4.95/-5.37	-7.11/-7.01	-6.76/-7.14	-5.63/-6.06	-4.99/-2.90	-1.95/-3.96	-3.67/-4.14	-3.33/-2.95	-5.05/-0.91	-1.73/-5.95	-5.08/-3.70	-5.37/-4.42
Θ(45°)	-1.77/-2.62	-0.03/-0.63	-1.95/-1.64	-4.99/-3.82	-5.40/-5.15	-7.84/-4.92	-2.40/-7.55	-5.36/-6.17	-5.44/-10.73	-10.30/-5.54	-4.25/-3.90	-1.27/0.17	-1.13/-1.59	1.20/-1.77	-1.28/-1.51	-2.20/-2.59	-2.41/-2.44	-2.61/-1.73	-1.23/-1.92	-2.07/-0.97	-2.50/-1.37	0.27/-3.71	-0.64/-2.40	-3.98/-0.77
Θ(52.5°)	-1.42/-2.54	0.573/-70	0.210/26	-1.52/-2.13	-4.54/-0.89	-2.26/-2.87	3.98/-4.61	-1.70/-3.82	-4.45/-6.36	-2.81/-5.79	-10.80/-9.67	-11.39/-8.40	-8.47/-12.60	-10.01/-4.45	-7.19/-3.68	-2.80/-2.60	-3.51/-3.55	-3.79/-5.05	-4.15/-1.63	-1.08/-2.49	-1.14/-0.45	-0.53/-0.50	2.32/-2.02	-1.48/0.53
Θ(60°)	1.10/-1.93	0.37/1.61	1.39/0.89	-2.02/0.13	-0.91/-0.61	-1.40/-2.75	-1.19/-0.41	-3.23/-6.19	-1.30/-4.69	-8.28/-3.51	-2.15/-3.35	-5.42/-5.58	-5.12/-0.60	-2.84/-3.89	-3.33/-1.98	-2.94/-1.05	-2.54/-4.62	-1.70/-1.14	-1.64/-2.26	-3.69/0.61	-2.59/-1.09	-1.93/0.34	-0.66/-0.98	-2.99/0.98
Θ(67.5°)	0.68/-2.59	-1.62/-1.22	-0.03/-0.23	-2.25/0.25	-0.68/-3.85	-1.90/-0.36	-2.68/-1.19	-1.49/-2.05	-5.47/-6.15	-3.91/-9.42	-5.81/-8.26	-1.97/-3.78	-1.95/-5.22	-2.06/-3.00	-3.67/-2.62	-0.41/-3.75	-5.57/-0.43	-2.62/-2.67	-1.67/-0.20	-2.78/-1.42	-1.07/-2.02	-1.07/-1.98	-0.23/-0.77	-1.18/0.00
Θ(75°)	2.12/-1.09	0.91/0.53	0.97/0.04	-1.11/-2.39	-2.01/-0.40	-2.70/-2.57	-2.44/-1.93	-2.44/-1.92	-4.13/-3.08	-4.78/-2.15	-0.64/-2.8													

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 6GHz U-NII 7-U-NII 8

Appendix F

Total Gain Data

Freq(Hz)	6.695GPol.	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°)	-13.89/-11.97	-11.54/-9.98	-9.13/-7.95	-7.35/-7.25	-6.89/-6.80	-6.92/-7.29	-7.25/-1.74	-7.04/-7.88	-8.34/-9.17	-8.85/-10.11	-9.91/-10.02	-11.07/-12.87	-12.54/-11.49	-11.41/-12.57	-13.26/-12.70	-13.75/-11.87	-9.92/-10.85	-12.60/-13.81	-13.38/-12.01	-12.52/-11.63	-12.69/-13.31	-12.44/-13.33	-15.02/-14.39	-14.16/-14.70
Θ(7.5°)	-13.70/-14.39	-12.13/-9.31	-7.28/-5.47	-3.96/-3.76	-3.60/-3.04	-2.88/-4.23	-3.70/-4.65	-4.62/-4.55	-2.85/-4.02	-2.85/-2.92	-4.12/-5.07	-6.26/-7.19	-8.54/-10.24	-12.79/-12.97	-8.82/-6.33	-6.49/-8.34	-6.65/-5.47	-5.92/-6.05	-6.11/-5.63	-5.03/-5.22	-4.15/-4.27	-4.62/-5.51	-8.00/-9.99	-8.00/-9.99
Θ(15°)	-8.11/-8.15	-8.44/-8.60	-10.36/-7.85	-5.31/-4.60	-4.68/-4.01	-2.89/-1.66	-1.27/-1.30	-2.13/-3.67	-3.63/-4.80	-4.31/-5.31	-6.63/-6.55	-7.77/-8.94	-8.68/-9.30	-9.08/-7.90	-6.89/-10.36	-11.04/-11.00	-12.33/-15.39	-13.70/-12.09	-13.31/-11.25	-9.72/-10.12	-12.08/-15.24	-15.60/-13.17	-9.51/-7.68	-6.61/-7.02
Θ(22.5°)	-4.84/-5.18	-7.22/-10.09	-8.98/-5.94	-4.40/-4.65	-7.89/-3.86	-0.78/-1.02	-0.43/-1.03	-0.26/-1.47	-0.91/-3.29	-4.23/-4.15	-4.77/-5.92	-7.73/-6.92	-7.12/-8.87	-11.18/-6.80	-7.55/-12.19	-12.58/-13.37	-15.10/-12.55	-11.52/-12.08	-10.89/-8.72	-8.67/-9.39	-6.85/-8.66	-10.36/-11.75	-8.75/-9.84	-7.44/-4.70
Θ(30°)	-7.16/-4.75	-7.70/-13.00	-7.43/-4.09	-3.50/-3.32	-5.72/-1.75	-3.17/-2.32	-1.19/-1.80	-1.83/-1.77	-1.86/-1.82	-3.70/-5.31	-7.35/-9.12	-8.32/-6.43	-6.51/-7.31	-8.27/-8.03	-9.61/-11.98	-10.60/-9.36	-9.66/-8.92	-4.48/-6.84	-7.71/-8.16	-7.96/-3.04	-2.27/-4.15	-5.25/-6.44	-9.61/-8.15	-7.77/-9.45
Θ(37.5°)	-6.80/-5.53	-7.41/-10.85	-6.70/-5.01	-6.43/-5.54	-2.12/-1.17	-6.80/-4.17	-3.85/-3.42	-3.81/-3.30	-3.13/-2.29	-3.80/-6.45	-7.69/-4.42	-6.22/-5.73	-8.63/-6.40	-6.44/-7.53	-6.43/-6.45	-8.36/-11.29	-12.24/-6.31	-4.41/-7.52	-5.42/-7.51	-4.90/-6.16	-8.27/-6.90	-8.65/-6.01	-5.41/-6.18	-5.82/-11.17
Θ(45°)	-5.71/-5.81	-4.21/-4.46	-11.39/-2.93	-9.83/-4.25	-0.86/-2.67	-8.22/-1.35	-1.30/-2.79	-4.30/-0.94	-3.45/-6.05	-3.52/-4.43	-7.16/-7.22	-2.67/-4.27	-9.07/-5.08	-5.93/-11.51	-13.56/-12.45	-14.98/-10.58	-12.66/-13.43	-11.99/-12.21	-10.62/-12.10	-13.14/-5.55	-7.10/-10.47	-10.53/-11.76	-8.34/-8.78	
Θ(52.5°)	-3.10/-4.21	-6.55/-6.95	-9.15/-2.75	-4.11/-0.94	-1.49/-4.39	-5.78/-1.24	0.74/-0.11	-2.24/-1.34	-2.04/-2.15	-0.95/-6.29	-3.78/-6.39	-3.01/-6.09	-2.52/-5.15	-4.26/-12.69	-5.97/-10.07	-6.17/-5.53	-4.13/-9.31	-10.15/-6.36	-7.17/-8.69	-10.74/-8.21	-10.05/-6.33	-4.45/-4.26	-5.99/-7.56	-10.69/-6.87
Θ(60°)	-0.87/-3.31	-3.86/-4.74	-8.66/-4.95	-2.79/-1.38	1.41/-5.88	-2.78/-0.77	0.97/-0.77	-0.41/-1.15	-1.14/-3.73	-2.20/-1.97	-4.36/-0.25	-3.55/-0.20	-2.24/-1.00	-6.28/-5.92	-2.59/-5.24	-4.16/-5.76	-2.72/-6.23	-6.27/-12.58	-6.84/-7.14	-3.25/-4.00	-6.06/-3.88	-4.05/-2.03	-6.82/-3.99	-6.79/-4.26
Θ(67.5°)	-0.810/-1.2	-3.57/-3.70	-5.76/-4.90	-2.880/-9.7	0.52/-3.12	0.30/-0.19	-1.440/-8.5	1.07/-1.02	-3.26/-3.67	-2.24/-4.28	-0.62/-1.28	-1.37/-0.45	-0.95/-2.51	-6.38/-3.96	-0.95/-4.01	-3.55/-6.69	-7.86/-11.32	-8.62/-6.41	0.36/-6.46	-2.56/-4.99	-4.44/-5.68	-3.37/-3.72	-5.31/-6.86	-4.81/-3.88
Θ(75°)	-0.090/-7.2	-2.69/-2.75	-3.27/-5.01	-0.481/-0.5	0.68/-1.33	-0.33/-1.06	0.150/-1.3	-0.46/-8.78	-2.04/-0.78	-2.59/-1.38	-1.52/-8.70	-1.40/-1.43	-7.05/-5.56	-3.83/-7.10	-5.26/-5.50	-6.31/-8.54	-8.23/-8.31	-6.72/-9.72	-4.39/-5.67	-10.64/-10.33	-8.37/-5.38	-6.35/-7.56	-5.27/-3.39	
Θ(82.5°)	-1.880/-6.0	-0.73/-2.50	-1.21/-3.58	-1.38/-0.03	-0.070/-9.9	-2.13/-0.85	-1.43/-1.80	-0.28/-2.42	-0.19/-5.04	-2.34/-1.18	-3.49/-1.90	-4.58/-8.47	-1.96/-6.40	-7.89/-7.68	-8.24/-6.54	-9.17/-12.51	-13.44/-9.49	-9.16/-12.83	-11.20/-5.06	-4.11/-10.49	-14.27/-12.20	-7.36/-8.04	-9.41/-6.89	-6.92/-2.51
Θ(90°)	-4.11/-2.12	-0.88/-3.25	-1.24/-1.65	-0.94/-6.24	-3.65/-2.76	-2.69/-0.63	-0.36/-0.82	-0.72/-1.22	-1.39/-0.06	1.00/-2.45	-3.38/-2.35	-5.68/-6.16	-2.09/-5.79	-3.19/-6.29	-8.04/-7.54	-10.57/-5.93	-12.05/-7.85	-8.97/-6.27	-5.05/-5.66	-5.30/-8.74	-11.91/-13.23	-5.67/-11.34	-9.82/-10.68	-7.89/-7.09
Θ(97.5°)	-5.63/-4.31	-1.00/-4.18	-2.07/-0.67	-1.70/-4.54	-5.87/-2.73	-6.19/-1.91	-0.25/-2.40	-0.87/-3.87	-4.28/-0.26	0.48/-0.42	-2.00/-2.67	-3.02/-4.23	0.57/-1.83	0.33/-6.77	-6.31/-4.58	-4.36/-0.56	-5.74/-7.35	-6.83/-12.06	-11.44/-10.61	-8.36/-13.62	-14.23/-9.29	-12.16/-15.48	-7.34/-9.36	-5.48/-5.36
Θ(105°)	-3.85/-3.29	-1.74/-4.97	-3.20/-1.97	-1.08/-1.77	-3.51/-2.20	-9.58/-3.05	-1.79/-5.15	-0.89/-4.17	-2.29/-0.85	-3.17/-1.80	-1.11/-1.55	-0.65/-2.79	-0.49/-3.64	-7.50/-1.79	-3.08/-4.17	-1.20/-5.40	-4.54/-9.71	-9.16/-12.83	-11.20/-5.06	-4.11/-10.49	-14.27/-12.20	-7.36/-8.04	-9.41/-6.89	-6.92/-2.51
Θ(112.5°)	-2.53/-4.45	-1.78/-3.00	-4.33/-4.00	-2.74/-0.31	-0.28/-2.78	-3.82/-7.94	-5.07/-5.50	-4.59/-4.75	-0.43/-3.53	-9.04/-7.10	-5.28/-2.03	-3.72/-2.52	-3.05/-5.09	-2.90/-8.09	-5.93/-3.25	-3.52/-6.96	-2.85/-9.79	-14.83/-11.82	-9.15/-11.92	-6.33/-12.65	-2.49/-8.44	-6.76/-7.87	-3.16/-4.61	-2.10/-1.15
Θ(120°)	-0.63/-3.58	-4.19/-3.71	-3.58/-7.44	-4.51/-3.72	-0.65/-4.30	-4.48/-3.32	-5.31/-4.35	-7.80/-4.71	-2.63/-3.84	-6.83/-5.84	-4.78/-3.08	-5.33/-3.76	-6.21/-4.16	-6.58/-5.85	-8.19/-4.24	-9.03/-9.28	-14.61/-8.62	-4.28/-9.52	-11.68/-5.53	-9.87/-6.58	-8.28/-7.69	-8.52/-6.33	-7.13/-10.17	-3.89/-3.46
Θ(127.5°)	-1.50/-1.21	-4.58/-4.20	-5.56/-6.06	-7.84/-11.32	-7.62/-4.61	-6.60/-4.93	-2.46/-5.05	-5.65/-6.52	-9.13/-7.92	-5.32/-3.21	-4.49/-4.19	-7.30/-4.54	-6.09/-6.71	-8.90/-4.97	-3.22/-8.01	-6.80/-7.21	-10.17/-12.54	-8.88/-5.64	-4.54/-9.71	-10.57/-9.40	-10.46/-8.39	-5.59/-3.60	-2.39/-2.44	
Θ(135°)	-1.99/-2.45	-3.89/-4.25	-5.82/-1.90	-2.67/-3.83	-6.54/-8.04	-7.95/-6.68	-4.28/-4.29	-5.96/-7.52	-4.66/-4.05	-4.16/-4.19	-3.86/-3.40	-7.02/-2.92	-5.06/-3.18	-5.91/-4.42	-7.03/-8.31	-2.81/-5.24	-11.16/-13.01	-9.70/-11.15	-8.29/-12.24	-10.38/-8.13	-12.60/-11.57	-7.47/-9.20	-9.93/-7.25	-8.93/-6.45
Θ(142.5°)	-8.19/-4.52	-4.49/-4.53	-2.69/-1.09	-0.83/-2.66	-3.66/-5.97	-10.01/-11.17	-8.67/-7.65	-3.71/-2.85	-2.77/-2.62	-1.87/-2.02	-3.38/-2.80	-3.37/-6.05	-4.07/-6.50	-3.04/-5.02	-2.21/-4.29	-7.12/-10.05	-12.99/-13.93	-14.87/-9.43	-11.40/-10.51	-12.94/-9.47	-8.59/-10.43	-11.37/-8.82	-7.84/-8.71	-6.47/-7.07
Θ(150°)	-14.32/-6.99	-5.20/-5.39	-1.99/-1.26	-1.33/-1.42	-2.74/-5.07	-6.84/-6.08	-5.80/-5.69	-5.48/-7.84	-6.04/-4.32	-3.03/-3.00	-3.35/-8.59	-6.49/-3.60	-5.24/-5.74	-3.39/-3.43	-4.13/-8.03	-6.68/-4.63	-7.82/-5.73	-6.41/-11.33	-8.86/-7.84	-5.73/-4.94	-6.24/-9.75	-6.69/-7.34	-6.99/-12.05	
Θ(157.5°)	-9.43/-6.51	-4.99/-4.77	-2.31/-2.23	-2.07/-2.62	-3.95/-5.50	-6.18/-5.21	-4.29/-4.46	-5.31/-6.26	-6.88/-9.54	-9.99/-8.55	-6.65/-4.98	-6.33/-5.52	-5.26/-8.74	-8.71/-5.52	-4.03/-5.40	-4.66/-3.85	-7.31/-12.73	-14.28/-14.04	-12.12/-12.53	-8.19/-7.04	-9.19/-10.12	-9.85/-9.29	-9.13/-8.33	-7.80/-9.90
Θ(165°)	-11.59/-11.04	-9.50/-10.88	-9.01/-8.27	-9.01/-8.27	-7.94/-8.26	-7.70/-8.71	-6.72/-6.64	-6.98/-8.14	-9.95/-10.23	-7.70/-7.67	-7.52/-7.11	-1.68/-8.87	-12.63/-10.88	-9.16/-6.66	-8.34/-10.21	-13.09/-14.41	-13.67/-8.90	-5.69/-3.48	-4.35/-4.47	-5.43/-6.64	-6.25/-4.92	-5.08/-5.06	-5.68/-7.16	-8.74/-10.19
Θ(172.5°)	-9.21/-9.88	-9.98/-10.08	-9.16/-9.41	-8.73/-8.46	-8.20/-8.91	-4.98/-9.50	-10.81/-8.95	-11.71/-10.02	-11.08/-10.49	-12.50/-10.76	-10.77/-11.81	-6.87/-11.12	-9.79/-11.22	-14.13/-12.02	-9.78/-17.17	-11.91/-15.20	-10.62/-6.79	-4.91/-6.18	-7.07/-8.39	-7.20/-7.35	-9.85/-9.02	-9.72/-9.64	-10.46/-10.17	
Θ(180°)	-10.04/-10.08	-10.87/-9.81	-8.77/-7.58	-7.15/-8.26	-8.76/-8.05	-7.39/-8.34	-8.19/-8.47	-9.67/-10.99	-8.90/-9.48	-9.27/-12.55	-12.33/-11.88	-14.94/-14.86	-12.02/-11.41	-11.48/-8.58	-6.88/-8.99	-11.19/-10.06	-7.33/-8.67	-9.95/-10.52	-9.77/-9.02	-9.75/-9.89	-10.73/-9.80	-10.06/-10.01	-9.69/-9.85	-9.51/-10.47
Freq(Hz)	6.695GPol.	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°)	-10.98/-12.14	-11.18/-11.66	-10.92/-10.64	-10.71/-10.44	-11.05/-10.45	-10.23/-9.48	-9.62/-9.10	-9.05/-8.79	-8.08/-8.71	-7.75/-8.06	-9.64/-8.68	-10.78/-10.63	-10.81/-12.94	-13.17/-14.09	-15.25/-15.28	-15.12/-12.76	-15.48/-12.72	-12.81/-12.58	-15.25/-15.39	-15.00/-13.91	-14.31/-12.81	-14.42/-12.84	-12.35/-11.56	-11.81/-12.01
Θ(7.5°)	-11.82/-9.77	-7.40/-5.92	-3.94/-3.07	-3.37/-4.84	-5.76/-6.67	-6.77/-6.09	-5.93/-5.99	-5.58/-5.86	-5.18/-4.75	-4.79/-4.47	-4.23/-5.11	-4.31/-5.65	-7.95/-10.33	-9.26/-8.78	-9.64/-11.44	-13.13/-10.17	-9.05/-9.52	-9.05/-10.63	-8.03/-7.68	-6.72/-7.53	-7.02/-6.92	-6.27/-7.28	-6.63/-11.54	-13.21/-14.17
Θ(15°)	-8.66/-9.47	-13.85/-7.97	-3.44/-2.14	-2.58/-3.12	-4.50/-3.75	-2.69/-3.73	-4.14/-4.79	-3.21/-2.99	-3.11/-4.18	-4.45/-4.44	-3.06/-3.52	-6.44/-8.08	-11.05/-6.98	-7.86/-10.40	-8.30/-7.99	-8.28/-8.33	-10.14/-12.47	-10.85/-13.04	-10.53/-14.28	-10.79/-9.67	-8.34/-8.12	-6.59/-6.27	-7.49/-9.38	-10.42/-11.98
Θ(22.5°)	-8.99/-7.65	-9.42/-6.53	-4.84/-3.05	-3.61/-3.58	-3.16/-2.84	-3.26/-4.35	-3.67/-5.28	-2.40/-2.11	-3.73/-1.84	-3.66/-5.56	-5.77/-6.94	-7.10/-6.70	-7.75/-8.74	-6.77/-7.36	-9.36/-8.09	-10.83/-13.79	-9.35/-10.35	-13.63/-14.01	-10.25/-16.81	-7.90/-7.51	-6.21/-6.46	-7.28/-8.29	-7.33/-8.91	-7.28/-7.43
Θ(30°)	-6.18/-4.43	-7.34/-9.58	-3.98/-4.17	-4.95/-5.19	-1.29/-2.23	-3.24/-2.74	-3.69/-5.20	-4.67/-2.49	-2.23/-1.40	-2.31/-5.37	-3.87/-5.55	-8.33/-8.32	-7.15/-7.21	-6.25/-7.12	-6.80/-8.54	-12.60/-11.77	-12.82/-10.58	-7.88/-6.68	-8.77/-12.90	-11.81/-7.12	-6.45/-6.29	-10.07/-10.80	-11.83/-12.41	-11.72/-7.35
Θ(37.5°)	-7.84/-5.49	-10.23/-10.17	-7.79/-7.50	-10.05/-9.42	-1.67/-6.59	-5.51/-3.24	-3.98/-4.59	-5.99/-3.22	-1.82/-8.25	-3.12/-5.78	-5.46/-11.22	-4.69/-2.75	-6.35/-10.03	-7.94/-										



Antenna Pattern 6GHz U-NII 7~U-NII 8

Appendix F

Θ(75°)	-2.02/-1.46	-1.30/-0.84	-0.59/-0.52	-1.19/-2.29	-2.90/-3.28	-4.13/-3.48	-2.89/-4.14	-4.89/-5.60	-6.76/-7.14	-7.27/-6.62	-5.40/-4.20	-5.81/-5.64	-6.84/-7.66	-6.84/-8.47	-8.70/-9.62	-9.04/-8.49	-8.30/-7.78	-7.21/-7.52	-8.97/-9.36	-8.85/-7.17	-6.60/-6.66	-6.49/-5.06	-3.46/-3.19	-2.61/-1.67
Θ(15°)	-0.45/-0.02	0.380/0.52	-0.36/-1.25	-2.69/-3.56	-3.87/-4.22	-6.96/-5.94	-5.92/-5.88	-6.94/-6.17	-3.52/-3.74	-3.56/-4.21	-4.18/-4.05	-2.34/-2.87	-2.56/-4.31	-5.62/-6.56	-4.61/-3.75	-3.66/-4.22	-5.35/-6.13	-7.27/-7.13	-5.20/-3.42	-3.72/-6.38	-7.47/-5.94	-4.93/-3.73	-2.38/-1.59	-1.59/-0.88
Θ(22.5°)	-0.430/0.58	0.250/0.25	0.69/-0.86	-2.45/-3.80	-3.75/-4.05	-6.35/-3.29	-3.81/-5.96	-3.95/-4.10	-6.02/-7.52	-9.40/-10.96	-14.64/-8.33	-7.19/-6.96	-12.36/-11.66	-9.46/-10.16	-5.98/-6.80	-5.90/-4.94	-7.38/-3.85	-4.31/-6.19	-5.95/-1.97	-7.67/-3.38	-5.91/-6.83	-5.84/-3.68	-3.20/-3.07	-2.29/-0.84
Θ(30°)	-1.05/-0.24	-1.28/-1.13	-0.60/-2.02	-2.48/-1.75	-2.04/-4.42	-3.80/-1.35	-6.32/-7.96	-5.88/-5.81	-5.49/-6.55	-8.96/-11.00	-8.92/-8.45	-11.98/-7.72	-7.53/-9.92	-6.59/-9.15	-11.31/-8.17	-6.89/-8.38	-7.41/-8.19	-9.81/-6.18	-5.27/-5.06	-5.83/-4.57	-6.73/-12.06	-8.03/-3.88	-2.06/-0.26	-0.44/-2.19
Θ(37.5°)	-0.82/-2.59	-2.55/-2.31	-1.17/-0.74	-1.63/-4.56	-3.83/-6.23	-4.35/-10.17	-7.87/-6.64	-2.13/-3.49	-6.85/-6.70	-12.37/-9.36	-14.57/-14.28	-10.72/-7.56	-6.33/-8.78	-12.11/-9.24	-7.36/-10.69	-10.11/-6.50	-6.92/-5.40	-4.27/-5.98	-4.79/-3.76	-3.31/-1.69	-7.15/-8.05	-15.11/-3.68	-1.47/-0.85	-0.43/-0.65
Θ(45°)	-1.59/-1.26	-0.05/-1.05	-3.26/-2.52	-2.43/-5.70	-2.65/-3.66	-3.12/-7.85	-2.03/-1.73	-2.94/-7.43	-9.94/-6.91	-7.30/-6.34	-7.46/-12.32	-7.20/-11.99	-10.08/-8.02	-10.51/-12.07	-6.63/-7.23	-7.58/-4.21	-9.35/-13.51	-10.17/-8.50	-10.43/-7.55	-3.77/-1.13	-1.74/-3.91	-7.88/-4.79	-4.10/-0.91	2.49/0.03
Θ(52.5°)	-0.10/-1.62	1.35/-3.50	-1.06/-0.48	-4.96/-2.25	-0.65/-2.54	-3.98/-5.00	-0.73/-2.28	-5.28/-7.91	-11.41/-10.86	-8.65/-8.35	-12.19/-7.34	-7.16/-9.58	-7.00/-14.60	-11.13/-10.35	-10.08/-8.94	-13.23/-7.16	-9.92/-8.45	-4.32/-4.24	-4.84/-4.40	-2.50/-3.81	-4.14/-4.02	-4.41/-4.61	-5.04/-1.44	1.08/-0.22
Θ(60°)	1.53/2.02	1.87/-1.69	0.65/-0.97	-2.03/-3.05	-0.90/-1.06	-1.21/-0.04	-0.83/-2.46	-4.07/-5.06	-1.81/-3.76	-5.22/-5.53	-4.18/-5.10	-5.28/-6.74	-1.99/-4.69	-5.49/-4.37	-8.22/-3.86	-1.93/-6.92	-4.19/-6.80	-2.68/-3.99	-5.64/-2.88	0.55/0.36	-4.01/-4.31	-1.04/-2.54	-3.20/-0.76	-0.26/-1.41
Θ(67.5°)	3.93/-1.04	1.91/-1.70	1.55/-1.27	-0.88/0.19	-0.94/-1.03	-1.90/-0.49	-1.39/-4.33	-3.94/-2.34	-0.44/-1.77	-8.12/-0.93	-4.94/-7.54	-1.55/-5.75	-2.01/0.28	-0.45/-5.09	-6.49/-1.43	-2.11/-3.76	-7.78/-6.65	-4.03/-0.38	-5.52/-5.01	-1.37/-0.25	-0.92/-2.32	-0.77/1.05	-3.88/-3.68	-2.94/-2.52
Θ(75°)	3.04/-1.32	0.80/2.37	-0.04/-1.27	-1.36/-1.49	-2.00/-2.30	-1.52/-3.65	-4.45/-3.88	-5.49/-3.74	-3.63/-3.80	-3.01/-2.36	-8.72/-14.56	-2.60/-8.50	-6.75/-4.31	-7.81/-7.73	-15.41/-5.06	-4.30/-5.91	-6.73/-2.87	-0.89/-0.34	-2.33/-3.72	-0.87/-3.38	-0.98/-0.12	-1.46/-1.26	-1.90/-2.51	-2.65/-0.74
Θ(82.5°)	-0.33/0.43	-2.15/-0.02	0.95/-0.20	-2.61/-0.51	-2.47/-2.70	-4.01/-3.79	-1.85/-4.59	-8.97/-5.74	-3.01/-4.68	-1.73/-5.26	-10.62/-9.53	-1.57/-11.09	-7.03/-14.42	-8.17/-6.90	-10.98/-6.44	-2.38/-8.53	-4.25/-6.31	-4.65/-3.09	-0.31/-1.68	-4.50/-2.38	-0.02/0.88	-0.51/-1.43	-0.79/-3.51	
Θ(90°)	-4.34/-2.86	-1.55/-1.81	-0.27/1.18	-0.69/-0.95	-0.43/-1.87	-3.45/-2.55	-1.81/-4.20	-4.66/-2.53	-6.94/-7.5	-5.99/-11.65	-6.53/-8.02	-15.84/-6.78	-15.32/-11.27	-5.11/-15.31	-6.31/-9.74	-12.87/-8.34	-8.51/-7.65	-9.11/-0.98	-4.93/0.69	-2.57/-5.94	-0.94/-1.05	0.23/0.22	-1.18/-2.28	
Θ(97.5°)	-2.56/-4.73	-5.99/-3.49	-4.14/-0.18	-2.33/-1.22	0.65/-1.99	-4.26/-0.75	-2.48/-2.28	-0.95/-3.06	-7.37/-6.67	-5.11/-10.22	-6.83/-11.70	-6.11/-6.82	-8.47/-13.63	-15.38/-7.03	-10.37/-15.65	-5.78/-8.17	-10.14/-2.89	-4.56/-5.22	-10.38/-0.49	-5.26/0.53	0.46/-4.59	-4.43/-1.05	-5.29/-0.63	-2.52/-1.39
Θ(105°)	-2.58/-4.27	-4.48/-5.13	-4.91/-4.53	-5.50/-5.10	-2.34/-2.98	-2.43/-1.28	-4.09/-7.49	-0.47/-2.49	-8.11/-4.25	-3.21/-6.00	-3.39/-12.17	-12.17/-13.75	-15.19/-11.49	-14.16/-12.88	-8.43/-9.34	-4.83/-7.07	-7.11/0.75	-1.27/-4.24	-9.83/-1.30	-5.13/-3.40	1.04/-1.50	-4.48/-0.95	-6.88/-5.15	-5.68/-3.57
Θ(112.5°)	-8.12/-5.45	-3.08/-2.59	-1.53/-2.88	-2.56/-3.03	-3.56/-2.40	-7.36/-2.70	-3.31/2.69	-0.73/-4.93	-6.42/-3.75	-2.15/-2.71	-7.18/-10.26	-10.14/-12.36	-10.11/-12.15	-11.17/-6.03	-13.57/-10.40	-12.19/-7.07	-5.29/-2.39	-1.18/-6.76	-7.69/0.15	-1.88/-7.48	-1.82/2.69	-3.43/-10.50	-1.70/-8.62	-5.75/-1.11
Θ(120°)	-5.40/-4.77	-7.85/-8.56	-5.83/-5.05	-1.90/-0.97	-6.51/-5.52	-3.51/-2.54	-8.87/-8.32	-1.09/-4.00	-4.21/-7.11	-5.69/-11.07	-10.15/-9.33	-2.75/-9.56	-7.42/-9.66	-6.19/-5.18	-4.13/-6.21	-5.04/-6.89	-6.78/-7.79	-8.81/-7.58	-5.90/-3.24	-0.06/-6.82	-2.79/-4.64	-3.90/-10.06	-3.63/-1.93	-1.15/-4.05
Θ(127.5°)	-9.86/-4.50	-7.94/-6.34	-6.32/-9.57	-5.95/-3.16	-2.69/-1.24	-1.74/-2.23	-7.69/-0.40	-3.57/-3.40	-12.14/-8.14	-7.80/-5.81	-8.03/-6.23	-6.89/-14.99	-11.77/-11.71	-11.70/-11.17	-7.77/-4.04	-4.20/-4.10	-11.01/-7.74	-4.63/-4.66	-8.80/-2.24	-1.28/-2.05	-6.65/-3.94	-1.29/-11.10	-0.99/-0.42	-7.20/-1.14
Θ(135°)	-10.96/-10.25	-3.20/-2.08	-1.27/-3.47	-2.36/-3.00	-2.70/-2.44	-1.18/-3.17	-4.74/-2.73	-1.66/-6.67	-5.78/-3.29	-5.10/-9.31	-13.07/-9.63	-6.54/-10.90	-11.73/-15.29	-14.99/-15.12	-14.99/-12.38	-10.30/-10.35	-12.19/-8.44	-4.63/-5.53	-9.67/-7.12	-1.42/-1.34	-2.42/-3.76	-2.46/-2.14	-3.48/-7.21	-6.37/-4.44
Θ(142.5°)	-4.04/-1.88	-0.87/-2.80	-3.91/-4.03	-0.52/-5.58	-5.28/-4.99	-2.32/-6.98	-3.05/-6.85	-3.27/-1.78	0.25/-0.46	-4.79/-10.03	-15.21/-8.40	-8.98/-10.66	-7.96/-6.82	-7.14/-8.09	-7.79/-9.90	-7.17/-6.37	-7.27/-7.65	-6.16/-6.07	-6.18/-7.15	-6.07/-3.67	-3.88/-3.25	-1.06/0.50	0.39/-2.85	-5.88/-7.18
Θ(150°)	-2.84/-2.99	-2.82/-3.20	-1.32/-2.57	-4.96/-4.34	-2.58/-3.16	-3.59/-1.57	-2.49/-4.94	-2.96/-1.17	-4.01/-4.78	-2.30/0.19	-1.81/-3.92	-3.97/-12.16	-7.19/-4.47	-3.00/-0.88	-1.00/-2.42	-1.90/-1.44	-2.62/-6.52	-15.38/-13.29	-6.47/-4.39	-3.07/-4.55	-7.60/-5.79	-5.31/-5.33	-4.27/-1.98	-1.42/-3.33
Θ(157.5°)	-4.88/-7.91	-8.97/-7.70	-5.39/-5.13	-5.67/-5.65	-2.32/-1.06	-3.46/-2.23	-1.04/-1.53	-2.89/-6.56	-9.64/-3.87	-1.74/-1.95	-5.99/-13.22	-14.48/-8.59	-7.95/-9.03	-6.71/-3.71	-3.34/-2.74	-1.99/-2.48	-5.08/-7.12	-7.01/-8.65	-7.37/-5.37	-6.45/-5.12	-4.95/-7.73	-11.87/-12.48	-8.40/-5.42	-3.42/-3.83
Θ(165°)	-11.73/-10.94	-10.98/-12.87	-11.93/-11.66	-8.99/-7.15	-4.71/-5.63	-3.91/-4.55	-4.63/-3.68	-4.38/-6.69	-7.71/-5.48	-5.93/-9.29	-10.37/-5.54	-4.56/-3.62	-5.06/-6.35	-6.90/-6.80	-6.96/-5.38	-4.55/-4.43	-5.54/-6.61	-8.66/-11.18	-11.38/-10.46	-9.97/-8.06	-7.31/-6.91	-11.47/-7.00	-7.51/-8.59	-10.99/-11.53
Θ(172.5°)	-10.20/-10.30	-7.70/-8.15	-8.10/-7.70	-7.51/-6.48	-6.97/-5.95	-6.25/-7.24	-8.31/-8.96	-10.36/-9.99	-9.31/-10.79	-12.58/-10.74	-5.82/-5.36	-6.43/-5.25	-7.55/-6.21	-5.30/-5.55	-6.41/-6.92	-7.26/-8.01	-8.86/-10.50	-11.43/-11.10	-10.30/-11.47	-11.84/-10.81	-10.42/-9.81	-9.29/-9.42	-8.54/-7.53	-7.94/-9.27
Θ(180°)	-6.19/-7.37	-8.81/-8.90	-11.15/-10.51	-9.18/-8.32	-7.90/-8.26	-7.36/-8.72	-9.26/-10.15	-13.17/-11.79	-10.66/-6.21	-3.30/-4.69	-7.96/-8.39	-6.91/-5.85	-7.22/-8.10	-8.92/-8.06	-8.65/-8.02	-8.85/-8.12	-9.26/-8.45	-8.48/-7.91	-8.22/-7.74	-7.78/-7.84	-8.46/-8.66	-8.10/-8.76	-8.29/-9.17	-7.56/-6.10
Freq(Hz)	6.995GPol.	TotalAnt.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-4.50/-4.78	-3.84/-4.13	-3.84/-4.39	-3.71/-4.09	-3.40/-2.50	-4.08/-4.71	-6.69/-4.82	-4.24/-3.50	-4.37/-5.39	-5.87/-6.78	-8.90/-9.48	-8.67/-9.21	-9.18/-9.00	-8.30/-6.70	-8.67/-9.21	-9.29/-8.10	-8.30/-6.70	-8.67/-9.21	-9.29/-8.10	-8.30/-6.70	-8.67/-9.21	-9.29/-8.10	-8.30/-6.70	-8.67/-9.21
Θ(7.5°)	-1.97/-2.03	-1.20/-2.45	-1.66/-2.91	-3.01/-3.78	-3.87/-3.11	-3.99/-5.59	-7.05/-4.59	-4.57/-4.48	-5.39/-6.03	-8.65/-10.24	-11.49/-9.62	-10.92/-11.59	-10.50/-11.10	-12.12/-14.21	-12.85/-12.00	-10.91/-11.61	-12.33/-14.54	-13.00/-12.57	-8.32/-8.25	-6.89/-5.45	-4.33/-4.06	-3.21/-2.66	-1.88/-1.99	-2.15/-1.84
Θ(15°)	-0.05/-0.04	-0.07/-0.69	-0.65/-1.80	-2.35/-0.43	-3.47/-3.71	-3.07/-6.01	-7.85/-6.11	-7.81/-7.81	-7.60/-5.78	-5.18/-6.45	-7.21/-4.83	-4.76/-3.35	-5.31/-7.05	-6.39/-4.05	-3.39/-3.16	-3.90/-3.50	-4.00/-4.43	-8.20/-6.54	-6.02/-6.60	-9.31/-8.77	-7.53/-5.12	-3.95/-3.40	-2.99/-2.65	-1.91/-0.66
Θ(22.5°)	-0.99/-1.91	-1.21/-0.69	-0.83/-1.67	-1.49/-1.20	-2.99/-3.13	-2.98/-6.88	-4.01/-4.92	-4.47/-4.26	-3.93/-4.76	-4.11/-5.26	-7.08/-4.64	-4.74/-5.80	-9.05/-9.76	-8.93/-11.82	-8.15/-5.01	-5.53/-6.10	-4.09/-5.69	-6.40/-6.59	-7.60/-7.61	-6.56/-8.36	-11.56/-6.84	-2.65/-1.00	-0.37/0.18	-1.26/-1.80
Θ(30°)	-0.64/-1.46	-2.26/-4.23	-2.96/-1.05	-0.25/-0.70	-1.96/-1.80	-4.19/-2.88	-1.35/-5.38	-6.26/-3.48	-8.95/-9.21	-8.84/-14.58	-8.75/-10.57	-10.24/-9.52	-11.28/-8.97	-7.15/-7.49	-7.41/-4.40	-2.99/-8.42	-10.99/-12.00	-10.91/-6.29	-6.73/-8.29	-6.53/-9.77	-8.28/-8.12	-6.27/-2.00	-1.94/-1.98	-2.80/-0.07
Θ(37.5°)	-4.35/-2.45	-2.20/-1.99	-3.68/-3.42	-2.13/-1.22	-5.13/-4.82	-7.30/-2.14	-8.35/-5.22	-6.17/-3.36	-6.34/-4.76	-4.75/-11.47	-6.52/-6.39	-10.95/-8.19	-5.02/-6.43	-11.58/-6.56	-6.60/-7.81	-10.79/-10.37	-10.02/-6.79	-5.81/-8.31	-7.64/-4.97	-3.02/-5.14	-9.09/-7.75	-4.57/-3.03	-2.86/-3.14	-2.47/-3.12
Θ(45°)	-4.25/-2.02	0.03/-1.30	-5.03/-2.74	-2.57/-3.43	-3.95/-1.17	-7.11/-2.82	-3.75/-2.84	-7.33/-10.56	-6.39/-7.04	-8.92/-5.36	-14.11/-8.79	-9.37/-6.97	-7.42/-6.39	-4.94/-6.30	-5.39/-4.19	-4.65/-5.68	-6.47/-8.19	-5.75/-2.15	-1.72/-1.54	-10.87/-6.19	-12.98/-3.59	-1.71/-0.96	-2.40/-6.45	
Θ(52.5°)	-2.93/-4.44	-1.15/-0.53	-2.25/-1.71	1.26/-2.53	-7.05/-2.55	-4.03/-5.62	-3.57/-2.31	-3.49/-3.64	-6.44/-4.98	-9.50/-6.90	-10.37/-9.80	-5.31/-13.84	-7.11/-10.51	-8.97/-8.35	-4.62/-4.67	-9.17/-8.69	-6.67/-7.28	-5.13/-3.21	-5.40/-0.80	-1.38/-3.39	-4.14/-2.61	-6.22/-1.36	-0.28/0.22	-2.17/-2.32
Θ(60°)	-1.75/-3.07	-1.14/-0.14	-3.25/-2.57	1.02/-2.05	-1.46/-3.20	-1.23/-3.52	0.56/-3.38	-4.98/-4.92	-2.28/-3.73	-4.98/-6.46	-2.99/-6.46	-4.11/-5.88	-5.26/-6.97	-8.98/-5.93	-6.62/-4.87	-4.04/-3.69								

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

