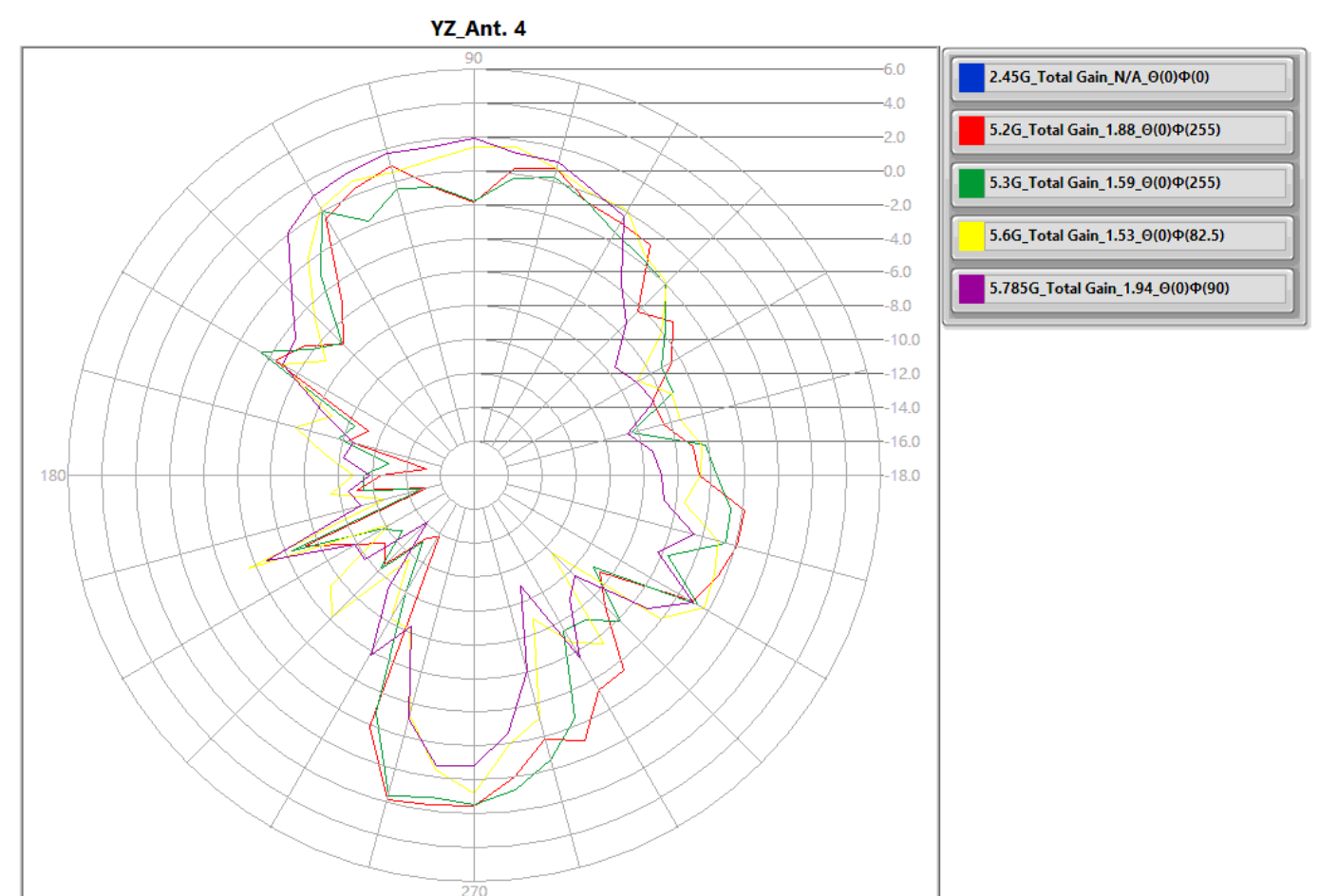
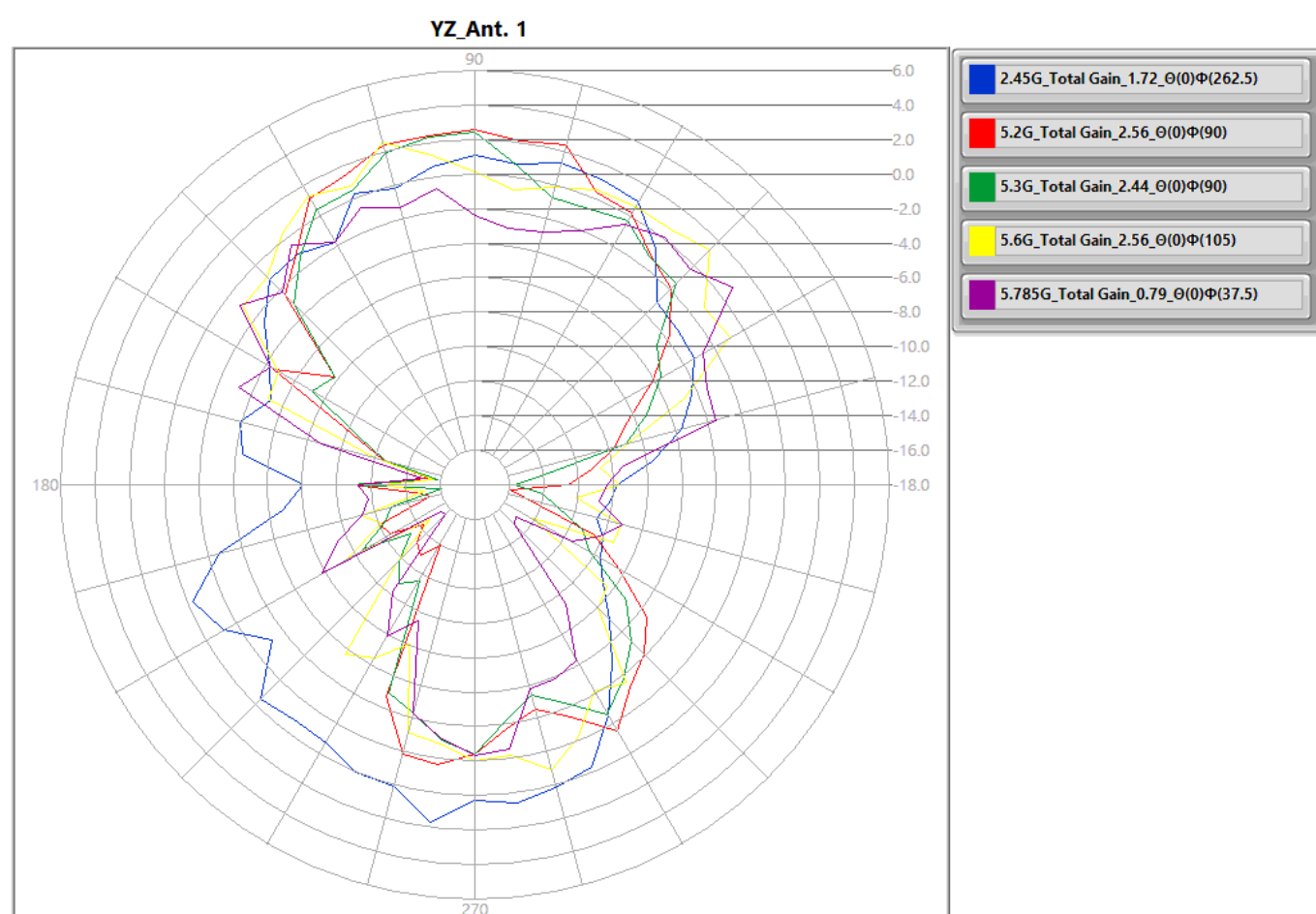
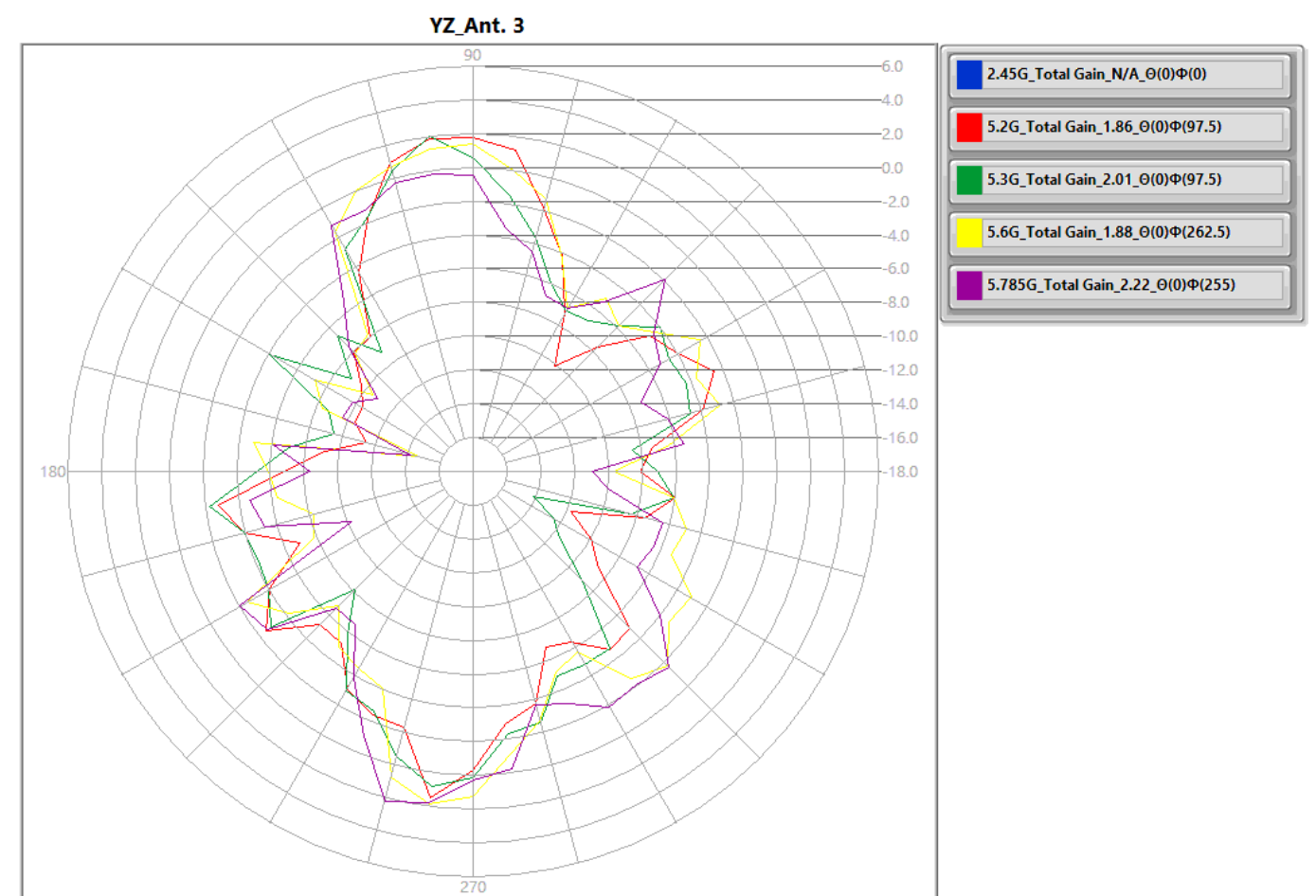
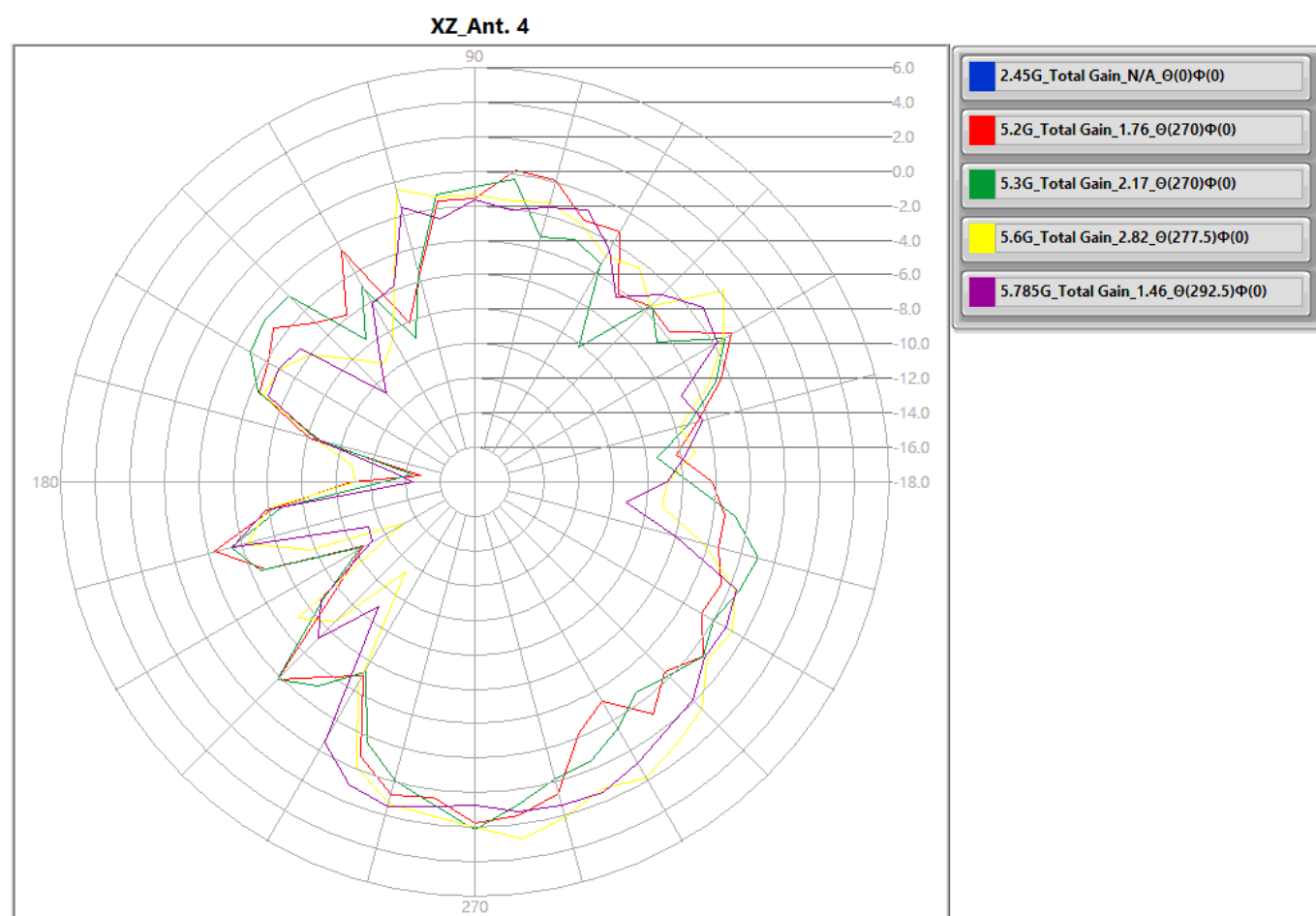
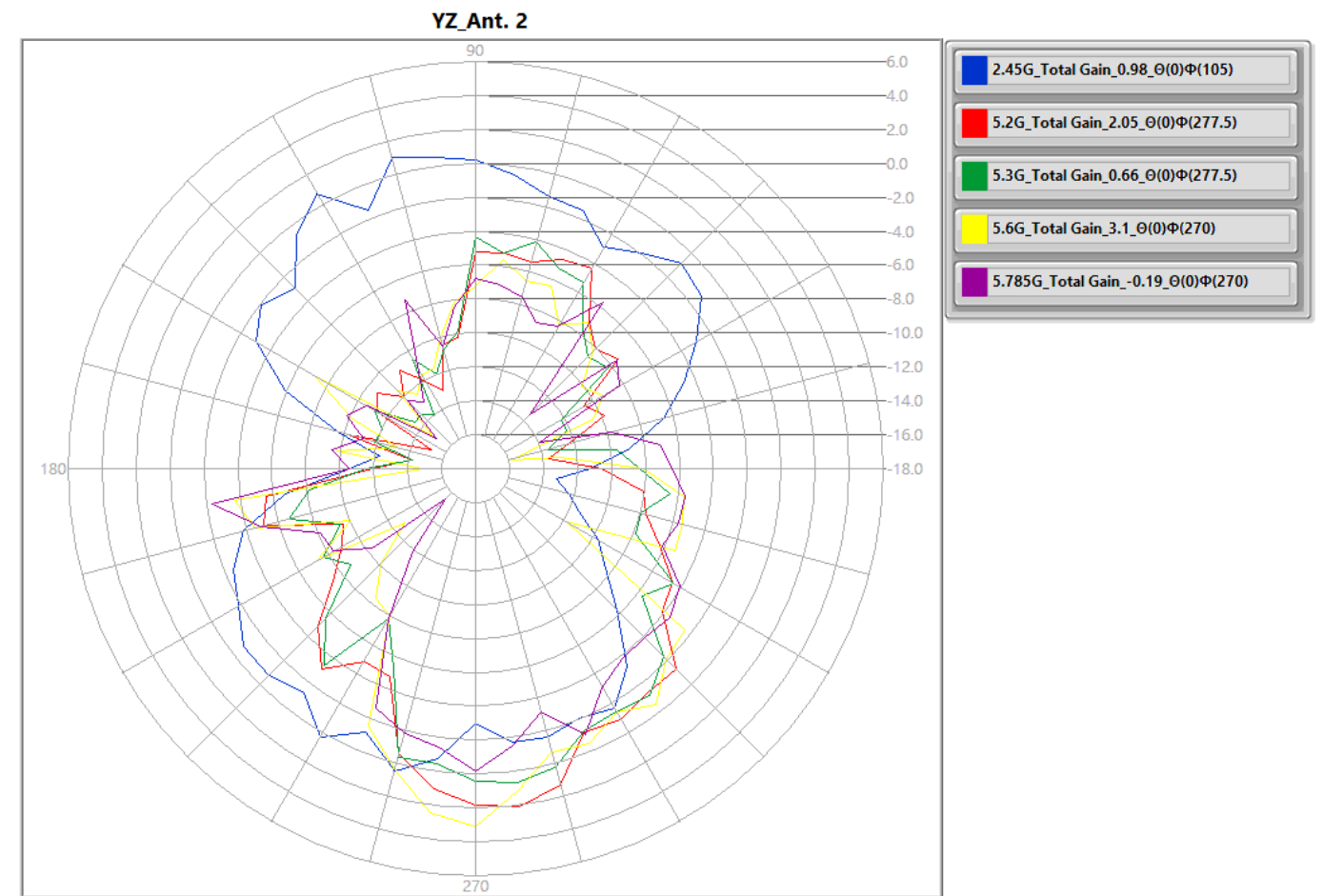
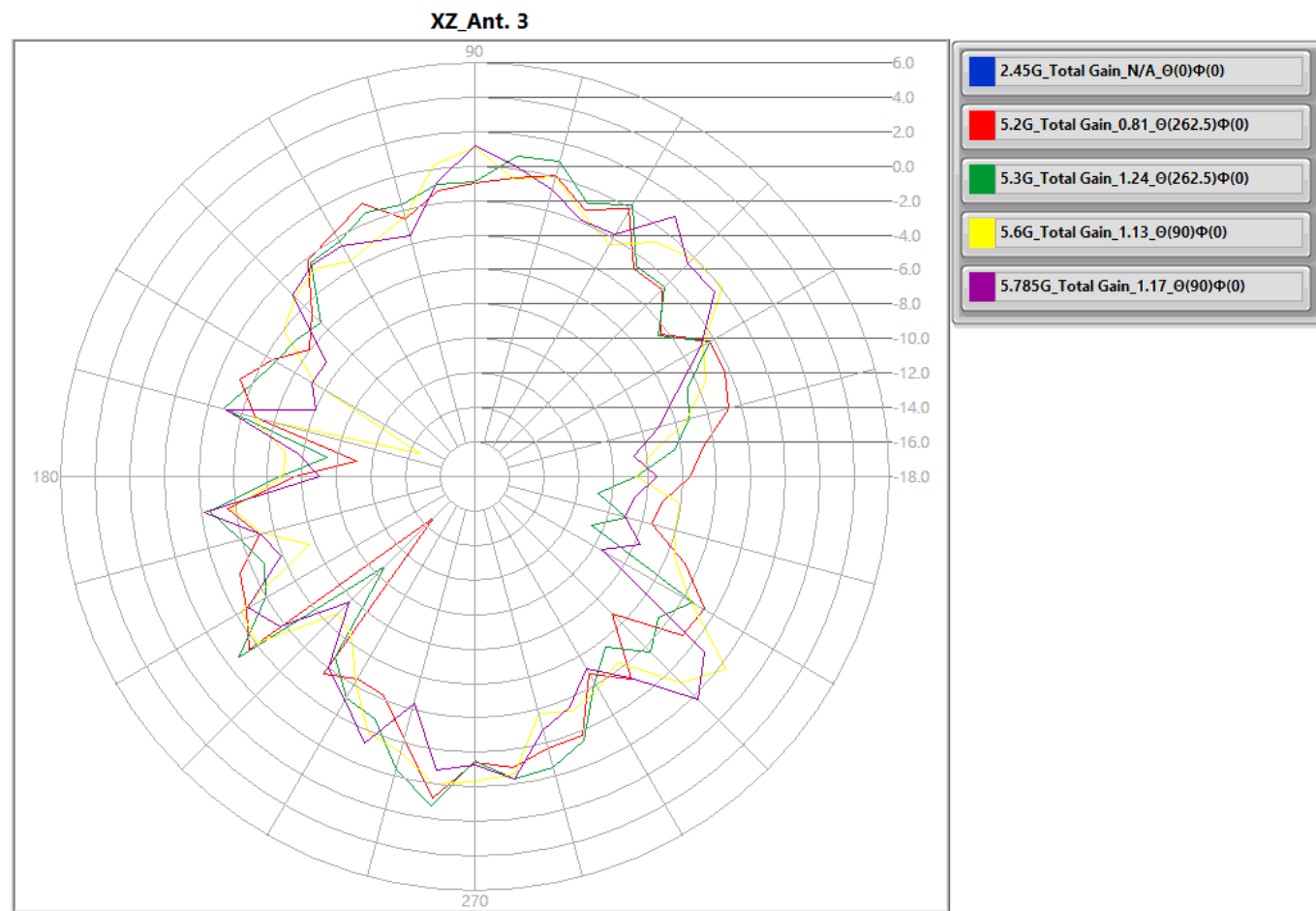






Antenna Pattern 6GHz

Appendix D

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°)	-15.57/-15.38	-14.89/-15.08	-14.90/-14.64	-15.33/-15.35	-15.31/-15.35	-15.72/-15.04	-15.75/-14.82	-15.26/-13.93	-13.04/-13.82	-13.53/-14.88	-15.49/-15.30	-15.96/-15.83	-15.77/-13.36	-13.77/-15.45	-15.78/-15.70	-14.06/-13.92	-13.85/-14.01	-14.30/-14.59	-15.66/-14.61	-13.29/-13.54	-14.79/-15.58	-13.88/-12.45	-12.70/-13.42	-15.02/-15.03
Θ(7.5°)	-13.19/-12.79	-14.34/-13.61	-13.48/-15.01	-15.47/-16.10	-14.91/-15.22	-15.99/-16.11	-14.84/-15.71	-14.73/-14.65	-14.83/-14.82	-14.99/-13.65	-15.50/-15.65	-15.57/-15.65	-13.73/-15.35	-13.31/-15.28	-15.55/-15.14	-15.10/-15.98	-12.75/-10.54	-9.19/-9.28	-8.70/-8.64	-9.30/-10.13	-10.87/-10.75	-10.50/-10.78	-10.23/-11.80	-12.63/-10.51
Θ(15°)	-12.25/-14.18	-11.11/-7.94	-6.72/-6.58	-6.66/-6.80	-6.35/-6.54	-8.07/-9.52	-12.10/-15.04	-14.45/-13.18	-12.87/-12.42	-11.58/-10.71	-10.78/-11.34	-11.97/-13.51	-14.10/-14.20	-14.00/-13.92	-13.73/-13.69	-14.36/-15.01	-15.46/-15.18	-15.54/-15.59	-15.90/-14.40	-13.13/-13.19	-10.78/-9.04	-8.06/-8.16	-9.37/-9.03	-10.67/-10.45
Θ(22.5°)	-11.22/-9.00	-5.71/-3.22	-2.16/-2.12	-1.18/-0.50	-0.30/-0.52	-0.90/-1.06	-1.93/-3.36	-4.45/-6.07	-7.88/-9.04	-10.63/-11.07	-14.99/-14.49	-12.84/-11.90	-11.01/-13.60	-15.48/-15.47	-9.57/-10.45	-13.70/-14.68	-10.32/-7.24	-5.75/-5.99	-9.21/-14.88	-11.04/-7.35	-5.33/-5.64	-7.44/-10.76		
Θ(30°)	-9.67/-6.42	-5.77/-4.27	-3.69/-3.30	-1.79/-1.26	-1.01/-0.41	0.400/-1.7	-0.34/-0.65	-1.23/-1.80	-2.82/-3.74	-4.51/-5.96	-6.03/-5.65	-5.37/-5.00	-5.41/-6.23	-9.45/-7.35	-8.16/-7.29	-6.74/-7.29	-5.55/-3.00	-2.30/-4.56	-8.73/-9.68	-6.59/-4.44	-3.22/-3.66	-6.84/-11.86		
Θ(37.5°)	-9.50/-7.04	-7.70/-6.65	-6.22/-7.80	-4.94/-2.80	-1.17/-0.72	-0.43/-0.88	-1.98/-2.06	-0.95/-0.12	-0.34/-0.20	-0.06/-0.12	0.170/-44	0.04/-1.33	-3.51/-5.06	-6.58/-7.63	-6.07/-5.82	-6.82/-6.70	-8.82/-10.19	-10.46/-12.56	-10.33/-4.43	-4.37/-4.69	-6.38/-10.07	-10.16/-7.11	-6.02/-5.36	-6.66/-9.59
Θ(45°)	-5.12/-3.84	-3.72/-4.75	-6.95/-4.78	-2.52/-0.89	0.320/-81	0.960/-41	-1.37/-1.55	0.101/-38	0.95/-0.90	-1.79/-1.74	-1.34/-1.60	-2.02/-3.67	-4.64/-5.68	-7.34/-8.25	-8.37/-10.59	-10.77/-8.62	-11.43/-8.41	-6.37/-4.05	-2.00/-0.53	-6.65/-4.89	-5.39/-7.04	-9.46/-8.57	-5.96/-5.11	-6.22/-6.00
Θ(52.5°)	-4.32/-4.74	-5.05/-5.07	-2.74/-0.45	0.220/-84	1.832/-21	1.720/-96	0.501/-08	2.412/-47	0.95/-0.31	-0.010/-87	1.120/-71	-0.75/-2.26	-3.42/-4.94	-7.18/-9.31	-10.33/-12.19	-7.86/-7.35	-6.57/-6.28	-5.63/-6.39	-6.11/-3.01	-1.62/-3.53	-1.25/-6.02	-14.27/-8.55	-4.79/-8.13	-8.42/-6.12
Θ(60°)	-4.07/-5.00	-3.29/-1.41	-0.66/-0.74	0.161/-23	1.872/-70	2.742/-22	0.880/-92	2.013/-05	2.170/-39	0.390/-88	1.541/-41	1.721/-65	0.84/-0.72	-2.75/-4.85	-1.01/-7.99	-9.80/-15.53	-8.19/-8.53	-6.32/-3.32	-4.35/-8.36	-6.98/-7.84	-11.59/-8.58	-4.16/-3.77	-2.43/-3.51	-3.84/-4.41
Θ(67.5°)	-6.75/-5.46	-2.89/-2.55	-2.71/-0.69	0.091/-03	0.931/-72	2.862/-31	1.022/-31	3.523/-90	3.021/-09	1.811/-98	1.241/-38	0.631/-37	1.581/-43	0.09/-0.81	-4.88/-2.71	-3.92/-13.56	-9.57/-3.55	-4.53/-5.68	-2.20/-4.07	-2.59/-2.36	-5.36/-6.01	-8.25/-7.42	-3.81/-4.42	-3.36/-3.82
Θ(75°)	-1.57/-0.28	0.61/-0.40	-0.650/-23	0.180/-45	0.943/-20	3.592/-34	0.983/-12	3.880/-68	-0.330/-63	2.014/-00	2.961/-34	-1.37/-1.76	-1.10/-0.37	0.592/-04	-2.71/-1.75	-4.37/-8.24	-4.30/-0.20	-1.690/-48	1.293/-61	0.53/-3.06	-4.98/-3.68	-7.32/-15.42	-1.59/-1.23	0.82/-0.46
Θ(82.5°)	-1.78/-0.28	1.331/-56	1.341/-39	1.481/-36	2.454/-09	4.032/-33	1.293/-76	5.452/-75	0.431/-85	2.204/-43	3.843/-60	-0.310/-64	-2.150/-39	-1.290/-14	-6.73/-0.77	-1.85/-4.45	-0.443/-37	2.150/-82	2.183/-33	1.14/-4.21	-9.95/-7.17	-8.88/-8.31	-0.140/-65	-0.35/-1.31
Θ(90°)	-3.72/-2.04	1.081/-47	1.610/-67	2.263/-75	4.054/-25	2.640/-82	-0.260/-06	2.622/-83	1.443/-05	3.473/-98	3.232/-66	2.873/-41	2.140/-66	-3.17/-1.93	-8.96/-1.18	-3.31/-8.37	0.882/-61	-1.92/-1.67	2.644/-02	-2.28/-11.81	-3.51/-11.29	-9.03/-9.06	-3.13/-1.42	-5.77/-7.94
Θ(97.5°)	-3.08/-3.91	-2.170/-08	1.841/-66	2.823/-90	3.282/-96	1.990/-78	1.141/-56	2.451/-22	-0.152/-33	2.893/-15	1.730/-21	-4.26/-2.57	-2.580/-09	-2.68/-1.32	-7.28/-9.64	-6.51/-6.67	-2.160/-15	-5.46/-3.39	1.001/-59	-8.42/-8.61	-7.23/-3.47	-7.42/-12.73	-6.61/-2.35	-1.56/-5.03
Θ(105°)	-5.67/-3.51	-2.34/-1.13	0.010/-03	1.182/-46	1.801/-13	0.12/-1.19	-0.620/-10	1.090/-15	-0.671/-17	1.360/-55	-1.71/-2.44	-4.96/-1.08	-2.690/-18	-1.03/-2.52	-2.24/-4.16	-7.93/-5.29	-2.50/-1.16	-5.77/-3.64	0.090/-40	-10.03/-6.52	-2.87/-6.33	-10.47/-8.93	-6.97/-11.28	-4.43/-10.79
Θ(112.5°)	-2.57/-1.58	-2.17/-3.40	-3.00/-1.49	0.271/-43	0.46/-0.86	-0.96/-2.17	-2.02/-0.49	1.320/-33	-1.66/-1.87	-2.26/-1.33	-1.48/-0.72	-2.94/-3.06	-6.91/-8.26	-10.49/-6.62	-7.08/-3.65	-5.76/-6.64	-5.25/-7.51	-9.63/-6.80	-4.080/-66	-9.22/-6.63	-6.54/-3.57	-13.26/-8.92	-13.04/-9.68	-1.20/-1.31
Θ(120°)	-2.07/-1.93	-3.02/-3.70	-1.35/-0.76	-0.27/-0.45	-1.54/-2.84	-3.41/-3.22	-1.530/-50	1.19/-0.17	-3.31/-4.32	-2.320/-55	1.511/-05	-0.28/-1.83	-3.55/-2.93	-3.86/-3.45	-5.13/-6.64	-10.10/-6.15	-7.51/-11.18	-7.35/-7.09	-1.37/-1.96	-11.80/-4.68	-9.05/-6.92	-12.67/-10.98	-7.39/-8.19	-2.88/-0.68
Θ(127.5°)	-3.63/-5.07	-6.40/-6.24	-6.48/-4.89	-4.79/-4.79	-3.78/-3.20	-2.74/-2.62	-2.57/-1.63	-1.02/-0.78	-1.22/-2.21	-0.372/-08	3.923/-70	2.010/-89	0.51/-0.03	-0.56/-2.65	-2.39/-3.24	-8.47/-10.08	-7.21/-9.34	-6.50/-6.63	-3.65/-4.15	-3.59/-6.73	-8.22/-8.56	-7.45/-3.34	-3.48/-6.22	-5.68/-2.94
Θ(135°)	-10.26/-10.85	-8.84/-6.58	-4.76/-4.37	-4.97/-5.42	-5.05/-6.05	-7.41/-6.76	-4.46/-1.69	-0.050/-88	0.580/-12	0.301/-75	3.634/-37	4.322/-35	0.191/-190	-2.60/-2.83	-3.01/-4.52	-4.48/-5.34	-8.95/-11.99	-3.66/-3.44	-5.48/-5.89	-8.36/-9.09	-11.36/-8.88	-13.97/-15.49	-16.14/-14.30	-15.94/-13.00
Θ(142.5°)	-8.20/-8.29	-8.41/-7.57	-6.80/-8.01	-9.55/-8.26	-5.84/-4.73	-4.42/-4.59	-5.04/-4.37	-2.04/-0.60	-0.96/-3.37	-3.61/-1.25	1.363/-84	5.274/-38	3.111/-25	-2.72/-2.55	-1.96/-4.62	-6.04/-1.47	-2.67/-5.06	-7.24/-6.12	-6.26/-7.95	-8.18/-5.08	-4.91/-5.47	-5.10/-4.57	-6.66/-7.55	
Θ(150°)	-2.32/-1.16	-0.48/-0.51	-1.23/-2.53	-5.27/-7.99	-7.68/-5.71	-6.66/-5.71	-2.04/-1.14	-0.20/-1.2	-3.88/-0.93	-1.69/-1.99	-1.27/-0.19	-0.17/-0.80	-3.91/-4.79	-6.07/-3.37	-8.02/-1.13	-5.31/-3.65	-2.56/-2.36	-3.38/-5.24	-7.86/-9.16	-10.80/-12.20	-13.20/-9.39	-7.47/-9.80	-6.23/-5.65	
Θ(157.5°)	-5.62/-3.53	-2.84/-3.99	-5.92/-7.78	-10.14/-11.04	-10.12/-8.04	-6.71/-5.56	-4.70/-3.75	-3.20/-2.88	-2.67/-2.52	-2.55/-3.07	-3.12/-3.37	-3.23/-2.51	-2.15/-2.76	-3.48/-4.03	-3.87/-4.12	-5.63/-7.16	-7.80/-6.41	-5.27/-5.87	-9.10/-13.01	-13.91/-15.59	-12.92/-5.63	-3.92/-5.58	-8.25/-10.38	-11.88/-7.80
Θ(165°)	-4.34/-3.73	-3.33/-3.52	-3.95/-4.72	-4.70/-4.24	-3.65/-4.36	-3.30/-3.10	-3.33/-4.44	-6.59/-9.63	-11.66/-10.77	-7.95/-6.21	-5.21/-6.46	-4.03/-2.98	-1.55/-0.78	-0.62/-1.57	-2.09/-2.95	-4.74/-6.57	-7.66/-6.62	-6.28/-6.51	-8.08/-10.65	-11.98/-11.80	-8.36/-9.58	-4.49/-4.07	-4.20/-4.70	
Θ(172.5°)	-4.69/-4.20	-3.40/-3.40	-4.05/-4.41	-4.46/-4.13	-3.85/-3.64	-3.67/-4.17	-5.16/-6.04	-7.21/-7.68	-6.75/-5.07	-3.43/-2.57	-1.73/-1.41	-3.36/-0.94	-0.89/-1.53	-1.73/-1.99	-2.47/-2.65	-2.89/-3.43	-4.25/-5.15	-5.99/-3.70	-9.34/-11.77	-12.81/-11.35	-10.60/-9.20	-7.86/-7.30	-6.64/-9.95	
Θ(180°)	-4.53/-3.90	-2.77/-2.79	-2.87/-2.99	-2.93/-2.99	-3.57/-4.27	-4.50/-5.35	-6.10/-6.67	-6.71/-6.79	-6.42/-5.55	-4.84/-3.74	-2.97/-2.16	-1.99/-2.16	-1.86/-1.76	-1.96/-1.97	-1.85/-2.24	-3.11/-4.07	-4.58/-5.59	-7.25/-9.18	-12.05/-13.60	-13.95/-13.71	-10.91/-9.18	-7.68/-6.38	-5.30/-4.49	-4.01/-3.68
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°)	-11.34/-10.76	-10.78/-11.13	-12.49/-13.53	-14.25/-13.82	-13.26/-12.88	-12.95/-12.81	-12.95/-13.04	-13.98/-14.57	-15.65/-15.51	-15.26/-15.00	-14.89/-14.70	-14.80/-14.55	-13.96/-13.50	-14.18/-15.25	-15.14/-13.56	-11.99/-12.15	-12.69/-12.51	-11.55/-13.15	-13.86/-13.88	-13.51/-13.33	-14.24/-14.15	-15.23/-15.21	-14.47/-14.99	-13.44/-12.51
Θ(7.5°)	-15.00/-14.01	-12.13/-12.53	-12.14/-11.34	-10.97/-10.22	-9.97/-11.01	-12.01/-12.20	-12.71/-13.02	-13.43/-14.55	-14.40/-14.63	-14.51/-13.72	-11.33/-9.84	-8.38/-7.17	-7.33/-7.25	-8.58/-9.38	-9.38/-9.61	-8.74/-9.16	-10.10/-10.47	-10.89/-11.45	-11.91/-12.66	-13.52/-15.49	-15.87/-15.10	-15.44/-15.15	-14.95/-15.01	-15.67/-15.25
Θ(15°)	-15.10/-11.03	-10.06/-9.05	-8.13/-7.54	-7.66/-7.57	-7.23/-6.15	-4.90/-4.22	-4.13/-4.39	-5.65/-6.74	-7.52/-8.39	-8.60/-10.45	-11.11/-10.43	-9.83/-9.01	-7.38/-5.48	-4.72/-4.30	-4.47/-6.50	-6.21/-5.79	-6.48/-6.55	-6.53/-6.99	-8.52/-9.45	-8.43/-7.59	-6.93/-10.93	-10.90/-10.55	-14.09/-15.15	
Θ(22.5°)	-7.97/-5.22	-5.26/-7.13	-6.69/-5.71	-5.71/-6.04	-6.33/-5.00	-4.15/-4.32	-4.48/-3.80	-3.78/-4.22	-4.57/-4.60	-4.85/-5.42	-5.71/-6.10	-6.81/-8.17	-10.41/-11.84	-10.48/-8.28	-8.14/-8.31	-9.34/-10.56	-9.95/-8.58	-5.64/-5.29	-5.64/-5.55	-6.80/-7.61	-9.69/-12.17	-11.02/-7.76	-6.61/-7.85	-9.06/-7.79
Θ(30°)	-8.90/-8.96	-6.82/-4.33	-2.97/-3.88	-5.38/-5.46	-5.38/-5.14	-5.74/-5.88	-3.79/-2.46	-1.99/-1.79	-1.56/-1.38	-1.63/-1.22	-0.82/-0.94	-2.14/-3.96	-4.04/-5.38	-3.93/-4.15	-9.45/-11.37	-7.08/-8.56	-5.19/-6.40	-6.50/-7.93	-7.45/-9.57	-5.95/-7.70	-10.27/-9.01	-4.93/-3.59	-3.37/-4.42	-8.10/-10.41
Θ(37.5°)	-5.86/-5.14	-5.93/-4.95	-6.29/-5.58	-4.07/-2.95	-2.79/-3.26	-2.76/-3.26	-3.25/-1.64	-1.38/-1.38	-1.16/-0.88	-0.84/-0.40	-0.15/-0.35	-1.10/-0.65	-1.05/-2.33	-3.63/-4.40	-5.11/-6.37	-5.69/-9.26	-8.95/-5.53	-3.54/-5.42	-7.97/-3.86	-2.16/-2.97	-5.57/-7.84	-8.33/-3.68	-1.46/-1.49	-3.3



Antenna Pattern 6GHz

Appendix D

Θ (15°)	-7.58/-6.42	-7.05/-6.59	-6.77/-6.88	-6.67/-8.51	-10.45/-11.83	-14.15/-15.89	-13.80/-12.98	-11.02/-9.36	-8.33/-8.03	-6.87/-6.75	-7.22/-8.06	-9.24/-9.81	-9.71/-8.58	-7.30/-5.67	-3.74/-3.08	-2.45/-5.73	-3.65/-4.55	-5.48/-5.80	-6.02/-6.17	-6.28/-6.81	-7.98/-9.55	-10.75/-12.11	-13.91/-15.37	-13.59/-12.52
Θ (22.5°)	-12.02/-8.13	-6.14/-6.75	-4.80/-3.78	-3.75/-4.33	-5.66/-7.08	-7.59/-6.82	-5.43/-4.46	-5.26/-6.57	-6.26/-8.42	-7.72/-6.86	-6.50/-7.51	-9.79/-13.06	-14.74/-14.82	-6.36/-1.38	-2.83/-4.22	-4.94/-5.54	-4.99/-4.09	-3.59/-3.38	-3.36/-4.23	-5.60/-7.01	-7.99/-8.89	-8.93/-8.15	-9.81/-11.55	-13.18/-11.99
Θ (30°)	-6.99/-5.99	-5.72/-7.62	-6.52/-4.75	-5.10/-5.76	-5.50/-6.21	-5.74/-4.48	-3.94/-5.44	-5.53/-5.05	-5.08/-6.22	-8.93/-10.88	-8.51/-1.68	-6.44/-6.35	-6.17/-7.60	-14.45/-9.40	-5.20/-4.04	-3.93/-12.16	-6.41/-6.92	-7.29/-7.01	-6.94/-7.00	-6.64/-8.92	-14.20/-13.11	-11.10/-10.86	-10.30/-9.84	-6.66/-5.85
Θ (37.5°)	-7.20/-7.72	-8.41/-9.77	-6.33/-5.20	-3.91/-1.26	-1.26/-1.56	-0.94/-0.05	0.12/-0.27	-1.26/-2.88	-3.73/-3.49	-5.04/-10.87	-15.18/-12.94	-6.14/-3.51	-4.87/-9.23	-11.60/-8.02	-9.25/-6.84	-6.04/-7.29	-6.93/-6.58	-6.76/-4.26	-3.47/-4.99	-4.72/-4.24	-6.81/-6.55	-6.33/-6.64	-7.97/-7.13	-6.23/-7.88
Θ (45°)	-15.26/-14.72	-9.25/-6.58	-4.66/-2.78	-0.27/-0.96	0.85/-0.07	-0.47/-0.87	-0.15/-0.73	1.19/-0.83	0.45/-0.22	-0.83/-2.54	-6.28/-8.46	-7.67/-5.36	-4.30/-6.09	-10.58/-5.62	-5.94/-6.62	-12.29/-10.17	-9.06/-4.47	-5.59/-9.58	-5.90/-2.25	-3.16/-3.01	-4.50/-7.33	-8.05/-7.20	-9.63/-10.90	-14.87/-15.41
Θ (52.5°)	-4.15/-4.21	-2.31/-1.09	-1.10/-1.13	0.46/-1.54	2.12/-1.61	0.90/-0.45	0.18/-0.00	-0.65/-0.14	1.89/-3.33	3.24/-1.28	-3.10/-7.14	-5.41/-2.37	-2.27/-4.74	-2.82/-3.02	-2.22/-4.89	-10.17/-12.89	-15.50/-12.81	-6.72/-2.74	-1.99/-3.15	-5.75/-7.29	-4.85/-5.04	-6.26/-4.82	-5.92/-6.53	-6.96/-8.01
Θ (60°)	0.67/0.53	1.70/2.68	4.04/4.15	3.52/2.54	1.77/0.71	0.67/1.81	3.11/3.59	2.25/-0.03	-0.31/1.50	1.96/0.26	-2.46/-1.65	-1.89/-1.83	-3.82/-2.51	-3.85/-1.64	-1.24/-2.83	-6.43/-8.28	-5.92/-6.18	-7.49/-7.77	-7.84/-5.99	-5.57/-10.55	-4.46/-1.57	-1.32/-0.68	-0.53/-0.26	-0.80/0.06
Θ (67.5°)	2.13/-1.95	1.39/-1.66	1.49/2.54	2.42/2.46	0.89/-2.17	-0.13/1.83	2.71/-3.37	3.53/-3.09	2.92/-3.43	3.26/-2.09	-1.76/-4.72	-3.29/-4.56	-4.68/-1.42	-2.28/-6.33	-12.08/-8.59	-6.85/-4.42	-8.44/-8.45	-7.52/-10.51	-13.88/-4.49	-3.41/-3.97	-1.76/-0.63	-1.70/-1.76	-0.48/-1.47	1.33/2.68
Θ (75°)	1.85/2.37	3.26/2.46	1.56/-1.97	1.66/2.31	1.45/0.16	-0.26/0.53	0.77/-0.37	-0.68/0.34	2.92/-4.39	4.34/-3.48	0.40/-1.55	-0.75/-0.08	-2.17/-2.05	-1.42/-1.73	-3.09/-0.87	-2.89/-7.20	-7.36/-2.90	-0.92/-7.64	-11.08/-5.89	-1.36/-0.75	-1.48/-3.85	-2.44/0.71	1.58/-1.90	2.07/-1.95
Θ (82.5°)	4.29/5.57	5.47/5.19	3.49/-1.96	-1.18/0.29	0.26/-1.97	0.27/-0.63	0.61/-1.26	0.67/0.64	2.54/4.84	4.81/3.32	0.62/-1.05	-1.08/-2.84	-7.90/-5.94	-4.92/-6.18	-8.56/-3.40	-3.97/-0.80	0.85/-2.70	1.69/0.27	-2.36/-0.11	-1.57/-7.63	-11.13/-3.79	-1.72/-0.96	1.32/-2.19	2.67/4.08
Θ (90°)	4.31/4.64	5.14/4.76	4.02/-1.75	-1.79/-2.27	-1.71/0.85	-0.37/-2.71	-2.05/-1.56	-2.86/-0.98	1.59/3.25	2.78/-1.05	-0.79/-1.38	-0.45/-0.71	-1.72/-5.54	-6.75/-3.03	-5.61/-3.82	-3.72/-1.31	-1.02/-7.77	1.01/-1.65	-9.55/-3.45	-3.12/-5.82	-4.20/-4.17	-2.38/0.40	1.03/-2.25	3.16/4.51
Θ (97.5°)	1.93/2.23	3.37/3.22	3.61/3.02	1.63/-1.23	1.05/-1.60	0.45/-1.54	-1.39/0.99	-0.42/-1.12	2.40/-4.25	3.20/-1.67	0.68/-2.05	-3.12/-3.27	-5.37/-7.31	-4.94/-2.69	-5.67/-8.33	-8.85/-2.93	-2.20/-5.96	3.51/-0.90	-4.62/-3.71	-1.31/-4.19	-2.20/-4.29	-3.71/-1.34	-0.61/0.38	0.43/2.05
Θ (105°)	0.98/2.69	2.98/3.20	2.55/-1.51	0.10/-0.15	0.98/-1.33	-0.16/-2.36	-2.77/-3.90	-2.15/-2.04	-1.80/-0.42	1.23/-1.81	0.94/-3.68	-6.06/-5.62	-3.48/-7.87	-7.60/-6.23	-8.24/-10.29	-8.53/-2.64	-10.41/-3.17	0.18/-3.58	-6.29/-7.98	-4.29/-4.18	-0.27/-1.50	1.13/-1.74	1.39/0.51	-1.40/2.40
Θ (112.5°)	-0.09/2.27	2.00/-1.78	0.24/-0.75	-0.82/0.39	1.14/-0.32	-4.38/-7.78	-3.32/-1.09	-0.50/-1.50	-2.56/-4.57	-6.41/-5.23	-4.38/-5.98	-5.57/-3.47	-1.23/-3.36	-6.54/-10.17	-6.30/-8.91	-3.96/-3.15	-8.57/-8.96	-0.63/-1.20	-7.33/-9.26	-3.45/-0.95	0.02/-2.39	1.19/-2.79	0.92/-0.02	-1.10/0.85
Θ (120°)	0.04/-1.98	2.14/-2.17	0.80/-1.07	-3.28/-3.26	-2.48/-0.90	-1.27/-4.50	-8.72/-6.00	-5.22/-5.69	-5.01/-4.78	-6.77/-5.96	-4.81/-4.30	-3.78/-5.19	-7.72/-13.92	-14.81/-11.82	-8.50/-4.56	-4.88/-7.94	-15.52/-7.60	-3.02/-6.40	-6.63/-10.54	-8.22/-5.51	-0.43/0.49	-0.20/0.59	-1.28/0.99	
Θ (127.5°)	1.75/2.84	2.94/2.73	0.95/-1.34	-5.01/-8.14	-4.68/-1.97	-1.91/-3.18	-6.29/-12.69	-12.49/-8.92	-6.84/-6.33	-10.61/-14.59	-7.24/-5.32	-5.48/-6.98	-5.97/-6.85	-5.00/-9.13	-8.85/-4.03	-3.76/-5.95	-7.08/-5.63	-2.62/-1.52	-9.07/-7.49	-8.41/-12.04	-5.27/-2.13	-1.48/0.70	0.91/-0.28	-0.85/-1.13
Θ (135°)	4.70/-4.96	4.92/4.22	2.68/0.01	-2.55/-1.55	-7.50/-4.48	-2.74/-3.72	-5.52/-7.84	-10.32/-10.26	-9.24/-8.48	-7.70/-8.85	-13.71/-15.05	-14.68/-14.56	-12.82/-7.36	-5.97/-8.09	-10.27/-9.66	-8.10/-12.45	-8.58/-6.62	-5.44/-3.28	-2.83/-5.17	-15.41/-8.01	-4.09/-1.63	-1.26/-0.65	0.37/0.06	2.98/4.07
Θ (142.5°)	4.21/4.14	4.24/4.09	3.13/-1.94	-1.08/-2.39	-6.80/-7.76	-8.12/-7.20	-5.57/-4.40	-3.43/-3.23	-1.95/-1.11	-7.75/-9.92	-11.03/-12.18	-10.64/-7.35	-6.86/-9.24	-9.07/-5.71	-1.94/-8.71	-7.07/-3.45	-2.97/-2.53	-2.22/-4.72	-15.18/-9.75	-4.56/-4.92	-1.23/-2.13	-0.66/-1.14	-3.01/-0.13	1.87/3.57
Θ (150°)	1.66/-1.97	2.51/2.53	1.88/0.63	-1.52/-3.95	-5.96/-5.61	-3.65/-1.85	-1.96/-3.54	-5.19/-7.26	-9.39/-10.82	-8.42/-5.41	-3.49/-3.70	-5.49/-7.29	-9.99/-11.64	-7.68/-5.98	-6.37/-6.83	-5.57/-3.29	-3.09/-5.09	-5.58/-8.27	-9.93/-9.00	-6.37/-6.55	-8.13/-8.29	-7.59/-7.64	-5.16/-2.96	-1.73/-0.38
Θ (157.5°)	-0.08/0.27	0.70/0.55	-0.46/-1.78	-3.44/-5.88	-8.83/-8.91	-7.02/-6.21	-6.76/-7.74	-8.32/-10.82	-13.83/-15.21	-12.26/-7.34	-3.94/-2.13	-1.61/-2.95	-6.87/-8.91	-8.79/-9.11	-10.46/-8.26	-6.18/-5.56	-6.54/-7.80	-8.36/-6.93	-8.66/-6.54	-3.57/-3.32	-2.70/-2.86	-4.58/-6.36	-6.95/-6.08	-4.89/-2.86
Θ (165°)	-9.59/-9.16	-7.87/-7.38	-8.55/-10.30	-11.92/-14.34	-15.06/-14.52	-12.09/-11.33	-10.55/-10.44	-10.26/-9.32	-9.23/-9.58	-9.93/-6.18	-5.29/-3.50	-2.87/-3.24	-4.31/-4.65	-5.35/-8.22	-13.98/-14.15	-8.97/-6.26	-5.49/-5.19	-4.78/-4.21	-3.38/-2.54	-2.56/-2.55	-2.49/-3.23	-5.33/-7.47	-9.97/-9.97	-11.51/-12.03
Θ (172.5°)	-7.09/-7.52	-8.45/-9.64	-10.01/-10.51	-13.46/-14.83	-15.73/-14.86	-14.67/-15.04	-16.02/-15.10	-15.94/-15.43	-13.93/-11.01	-9.94/-10.41	-11.47/-11.84	-11.14/-14.57	-15.27/-15.72	-13.58/-12.03	-7.71/-5.05	-3.55/-2.68	-2.38/-2.23	-2.49/-2.93	-3.23/-3.39	-3.48/-3.60	-3.47/-3.23	-3.55/-3.74	-3.90/-4.64	-5.55/-5.55
Θ (180°)	-4.61/-4.17	-3.46/-3.89	-4.33/-5.72	-8.04/-7.74	-6.72/-6.45	-7.29/-7.42	-6.87/-7.09	-7.33/-6.83	-5.97/-4.31	-3.20/-2.76	-2.77/-3.13	-4.25/-4.46	-4.80/-5.04	-5.25/-5.61	-5.63/-5.27	-4.98/-4.90	-4.45/-4.37	-4.57/-5.21	-5.76/-5.98	-6.02/-5.77	-4.97/-4.25	-4.18/-4.04	-4.03/-4.58	-4.67/-4.53
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°)	-15.63/-15.59	-15.04/-15.79	-15.50/-16.19	-15.22/-13.94	-14.75/-14.15	-14.31/-14.05	-15.80/-15.08	-15.97/-15.54	-15.72/-15.71	-15.04/-14.97	-15.49/-15.26	-15.23/-14.81	-15.48/-15.45	-15.60/-15.54	-15.76/-16.25	-15.29/-14.55	-15.37/-14.57	-15.70/-15.51	-15.25/-15.58	-15.80/-14.90	-14.91/-15.28	-16.02/-15.03	-15.03/-16.07	-15.22/-14.71
Θ (7.5°)	-11.92/-12.77	-13.12/-13.64	-13.15/-11.28	-11.45/-11.28	-13.94/-13.35	-14.13/-14.05	-14.20/-15.40	-14.34/-13.11	-13.76/-14.44	-13.61/-14.25	-13.90/-12.24	-13.46/-15.55	-14.96/-14.36	-13.29/-11.73	-11.26/-10.97	-10.79/-10.95	-10.58/-10.27	-10.10/-10.60	-11.23/-12.13	-12.55/-13.15	-14.04/-16.63	-13.87/-14.21	-12.30/-11.66	
Θ (15°)	-9.12/-7.18	-5.94/-6.00	-6.04/-6.19	-6.15/-6.04	-5.96/-6.70	-7.06/-7.49	-8.57/-9.08	-8.91/-8.04	-8.53/-11.09	-12.66/-12.55	-12.67/-14.36	-13.98/-11.98	-11.07/-11.62	-13.25/-12.22	-9.67/-7.17	-6.00/-5.54	-5.58/-5.77	-5.98/-6.87	-8.75/-10.44	-12.21/-12.46	-12.16/-13.04	-12.72/-12.06	-13.24/-11.68	-11.60/-9.38
Θ (22.5°)	-6.42/-6.56	-5.82/-6.38	-7.07/-8.26	-7.29/-6.03	-6.24/-5.47	-4.85/-6.20	-8.05/-9.27	-9.43/-9.17	-10.34/-13.83	-13.73/-10.79	-9.51/-7.64	-4.72/-6.47	-6.57/-8.46	-8.72/-7.50	-5.12/-2.32	-0.91/-1.70	-3.99/-5.98	-6.62/-5.55	-5.78/-6.45	-7.28/-7.88	-10.10/-9.36	-7.80/-7.11	-6.26/-6.49	-7.14/-6.88
Θ (30°)	-11.92/-12.40	-11.37/-13.14	-12.67/-12.09	-8.68/-6.08	-4.13/-2.95	-3.33/-5.37	-7.60/-8.56	-8.75/-6.94	-3.96/-3.24	-4.90/-6.89	-9.98/-7.65	-3.65/-1.79	-1.68/-3.92	-10.44/-11.82	-4.62/-1.75	-1.52/-2.94	-6.42/-9.21	-4.97/-2.89	-3.96/-7.47	-10.65/-12.19	-10.03/-7.32	-4.31/-3.44	-4.72/-7.81	-10.02/-11.15
Θ (37.5°)	-8.99/-11.83	-11.73/-8.25	-6.18/-3.34	-0.82/0.84	1.55/-1.22	0.33/-0.80	-0.54/-0.46	-1.10/-1.41	-0.89/-2.30	-6.67/-9.82	-5.86/-3.68	-6.54/-14.57	-13.86/-7.24	-5.28/-4.77	-4.51/-6.75	-8.67/-6.69	-3.64/-2.81	-6.48/-10.38	-10.74/-5.56	-2.28/-2.28	-3.04/-5.44	-9.64/-9.41	-12.25/-11.59	
Θ (45°)	-5.22/-5.17	-3.88/-2.40	-1.76/0.33	1.97/2.80	3.12/2.83	1.82/0.89	0.65/-1.1	2.11/2.38	1.15/0.16	-0.49/-3.22	-6.18/-10.84	-9.99/-2.22	-2.77/-6.12	-4.48/-2.50	-3.99/-6.15	-11.93/-11.45	-8.68/-4.23	-2.40/-3.12	-5.35/-6.27	-3.57/-2.65	-2.56/-5.86	-9.17/-8.25	-6.46/-5.11	-7.03/-7.88
Θ (52.5°)	-1.70/-0.76	0.16/0.18	0.74/1.65	2.04/2.09	1.96/-1.82	1.85/2.09	1.54/-1.22	1.34/-1.92	2.49/-4.3	0.23/-0.21	-6.31/-7.08	-5.10/-5.22	-2.60/-3.21	-5.13/-9.13	-8.65/-8.76	-10.34/-5.38	-5.04/-5.43	-7.25/-9.01	-4.43/-4.85	-6.22/-8.13	-5.34/-3.84	-1.36/-1.14	2.39/-1.54	
Θ (60°)	1.97/-1.31	0.72/-0.11	-0.27/0.52	1.39/-1.67	0.91/-1.27	-0.25/2.39	3.07/-2.29	1.92/3.06	2.64/0.60	-0.35/-1.39	-4.88/-6.20	-3.58/-4.63	-6.21/-4.78	-5.50/-3.72	-4.56/-11.19	-6.73/-6.21	-7.37/-9.90	-7.10/-5.40	-8.24/-8.18	-9.21/-9.29	-6.75/-1.71	-2.16/-2.07	-1.29/0.05	0.45/1.51
Θ (67.5°)	1.88/-1.19	1.59/0.81	0.10/0.39	-0.22/0.61	-0.81/-2.02	-0.38/-1.88	1.57/0.22	-0.85/-3.4	2.65/-3.70	2.45/0.67	-2.65/-4.58													



Antenna Pattern 6GHz

Appendix D

Θ(67.5°)	-3.28/-3.46	-1.99/-0.74	-0.24/-1.03	-1.34/-0.64	-0.05/-0.53	-1.72/-2.78	-3.71/-5.13	-6.33/-6.37	-5.58/-3.64	-3.95/-2.37	-0.29/-0.05	-0.76/-1.91	-3.27/-4.26	-6.76/-8.12	-4.42/-3.78	-6.68/-10.48	-5.02/-2.91	-2.11/-6.43	-5.12/-2.87	-1.91/-3.04	-6.36/-9.58	-9.90/-4.81	-3.07/-2.18	-1.81/-2.60
Θ(75°)	-5.16/-4.65	-4.97/-4.74	-4.98/-4.50	-4.53/-4.54	-4.53/-4.54	-5.01/-4.05	-2.23/-2.46	-3.32/-4.78	-6.21/-9.00	-7.74/-5.39	-4.74/-4.93	-5.51/-6.20	-9.92/-10.43	-8.43/-7.90	-15.03/-10.48	-10.23/-10.18	-4.97/-1.72	-3.97/-4.87	-11.49/-10.15	-8.97/-6.19	-6.62/-7.31	-11.05/-9.40	-6.74/-5.41	-5.90/-5.04
Θ(82.5°)	-8.34/-4.71	-2.23/-1.25	-1.49/-2.81	-3.88/-3.68	-2.76/-4.13	-6.32/-11.19	-10.07/-3.33	-0.34/-1.04	-5.57/-9.90	-9.47/-5.33	-3.60/-2.69	-11.72/-11.18	-14.72/-11.18	-10.64/-13.66	-8.35/-4.53	-3.29/-10.22	-6.30/-4.40	-5.75/-7.36	-8.18/-10.64	-9.70/-6.83	-5.47/-6.62	-12.71/-8.84	-5.20/-3.90	-7.51/-6.49
Θ(90°)	-10.22/-12.50	-8.58/-3.48	-0.07/-0.62	0.90/-3.00	-0.05/-0.35	-1.27/-2.05	-1.47/-1.83	-2.01/-3.70	-5.26/-5.54	-4.87/-4.02	-2.83/-1.36	-0.76/-1.27	-4.19/-3.77	-9.39/-13.70	-10.68/-11.11	-10.17/-11.66	-6.87/-3.47	-8.04/-7.08	-12.86/-10.47	-11.80/-11.52	-8.01/-8.04	-7.52/-4.42	-4.15/-7.43	-10.42/-13.30
Θ(97.5°)	-7.08/-9.09	-9.78/-9.22	-7.43/-2.93	0.73/-2.58	3.01/-1.28	-0.65/-1.80	-3.54/-6.64	-7.98/-7.76	-5.40/-3.92	-1.87/-0.20	0.78/-1.19	-3.41/-4.42	-7.95/-12.41	-10.03/-9.18	-4.65/-7.09	-7.74/-9.55	-10.97/-12.24	-5.00/-12.93	-10.64/-7.67	-7.44/-8.01	-4.86/-6.33	-6.74/-7.91	-9.74/-8.77	-6.36/-6.00
Θ(105°)	-6.43/-7.05	-8.76/-9.56	-9.21/-5.72	-3.12/-2.56	-2.70/-1.87	-1.29/-1.50	-2.60/-7.58	-8.80/-6.26	-2.17/-0.10	1.77/-1.33	-1.22/-5.56	-5.96/-3.48	-6.21/-2.79	-6.21/-9.10	-11.78/-10.05	-8.90/-10.50	-9.76/-2.95	0.34/-1.41	-4.87/-5.17	-10.71/-6.62	-5.67/-6.25	-5.47/-6.62	-12.71/-7.84	-5.70/-4.52
Θ(112.5°)	-5.44/-5.47	-7.72/-8.95	-11.16/-13.63	-7.65/-3.98	-2.17/-3.89	-5.29/-6.29	-5.90/-3.88	-2.55/-0.45	0.74/-1.58	0.15/-2.25	-4.10/-4.63	-5.37/-4.26	-6.25/-7.11	-7.08/-7.75	-6.99/-5.28	-9.67/-4.51	-2.72/-2.81	-5.48/-7.01	-10.29/-7.72	-7.71/-5.38	-3.77/-4.02	-1.45/-1.58	-4.50/-6.16	-5.69/-5.29
Θ(120°)	-1.74/-2.05	-1.93/-2.66	-3.70/-4.24	-4.45/-4.30	-3.24/-1.68	-1.43/-0.56	0.39/-1.15	1.65/-0.33	0.39/-0.92	0.03/-0.47	-0.27/-2.69	-3.77/-4.55	-4.09/-4.33	-5.64/-9.55	-10.71/-6.10	-9.46/-13.40	-15.02/-8.84	-6.21/-4.09	-7.74/-8.19	-9.31/-4.76	-6.46/-10.43	-2.81/-0.31	-1.88/-1.79	-0.57/-1.44
Θ(127.5°)	0.23/-1.14	-0.51/-1.31	-0.25/-0.09	-0.20/-1.35	-3.03/-2.67	-1.68/-0.74	1.66/-2.41	2.27/-1.48	0.55/-0.20	-0.75/-1.83	-2.14/-1.55	-1.52/-0.84	-5.32/-6.82	-11.41/-7.65	-10.76/-10.83	-4.43/-9.08	-2.54/-5.32	-4.24/-5.32	-4.93/-7.02	-6.05/-8.96	-13.23/-10.72	-5.34/-5.61	-5.16/-2.49	-0.69/-1.41
Θ(135°)	-4.81/-3.66	-2.57/-1.79	-1.59/-0.67	0.18/-0.84	0.90/-0.65	0.49/-1.06	1.90/-2.16	2.13/-1.86	1.43/-1.71	1.74/-0.51	-1.17/-1.17	-1.24/-1.32	-2.18/-3.38	-6.50/-11.33	-8.55/-8.59	-7.46/-5.92	-4.69/-2.07	-1.81/-10.57	-6.76/-9.21	-15.38/-8.35	-10.64/-11.49	-6.49/-4.17	-5.82/-6.81	-5.25/-6.51
Θ(142.5°)	-2.93/-1.69	-2.06/-2.48	-2.07/-0.57	0.45/-1.40	1.96/-2.67	3.31/-3.26	2.99/-0.02	3.00/-2.23	1.77/-2.16	1.89/-0.38	-2.42/-5.68	-4.90/-2.81	-1.48/-1.44	-4.06/-4.48	-2.57/-3.31	-1.35/-0.81	-4.42/-12.69	-7.37/-5.78	-4.96/-3.62	-1.25/-1.70	-2.86/-5.31	-8.71/-6.14	-4.16/-2.64	
Θ(150°)	-1.70/-0.84	0.08/-0.14	-0.01/-0.56	-0.35/-0.44	1.51/-2.10	1.97/-1.21	0.04/-0.06	-0.76/-0.97	-0.11/-0.26	-0.43/-2.49	-5.75/-8.87	-7.65/-4.45	-3.20/-2.95	-3.71/-6.28	-4.74/-4.46	-3.76/-4.82	-2.62/-1.43	-3.20/-5.85	-6.07/-4.63	-5.03/-8.45	-11.25/-12.94	-13.28/-11.35	-12.60/-7.86	-3.77/-2.37
Θ(157.5°)	3.26/-3.42	3.40/-3.15	2.76/-2.74	2.16/-0.86	-0.55/-1.61	-1.66/-1.06	-0.52/-0.68	-1.37/-1.90	-2.23/-2.84	-4.68/-7.99	-13.36/-13.46	-9.32/-6.14	-4.71/-3.76	-2.16/-1.26	-0.61/-0.58	-1.56/-2.57	-2.58/-3.08	-4.85/-6.05	-5.49/-5.22	-6.20/-6.08	-4.20/-2.51	-0.42/-1.41	2.56/-3.30	3.80/-3.97
Θ(165°)	0.86/-0.64	0.91/-0.85	0.36/-0.28	-1.15/-1.64	-1.79/-1.51	-1.15/-1.16	-1.10/-1.24	-1.39/-2.23	-3.40/-5.51	-8.57/-12.92	-15.60/-14.11	-10.91/-8.65	-5.84/-4.18	-2.84/-2.42	-2.72/-3.87	-5.92/-7.50	-8.57/-10.66	-13.97/-14.27	-14.38/-15.39	-13.40/-7.71	-4.15/-1.89	-0.61/-0.43	1.01/-1.07	0.78/-0.83
Θ(172.5°)	0.57/-1.17	1.39/-3.36	0.79/-0.10	-0.43/-1.08	-1.52/-1.69	-1.81/-1.97	-2.43/-3.50	-5.18/-7.41	-9.00/-10.15	-11.67/-12.54	-13.12/-11.80	-10.34/-9.15	-8.60/-9.15	-7.79/-7.67	-7.61/-7.75	-8.27/-9.40	-10.88/-11.64	-11.03/-10.47	-10.11/-10.25	-10.84/-9.95	-8.37/-6.99	-5.46/-4.21	-2.57/-1.19	-0.27/-0.33
Θ(180°)	-7.71/-8.06	-8.18/-8.99	-11.27/-11.79	-14.12/-15.53	-15.17/-12.85	-11.20/-9.77	-9.78/-11.52	-13.54/-13.38	-11.30/-9.72	-8.69/-8.32	-8.33/-9.01	-9.34/-9.41	-9.41/-9.96	-11.20/-11.95	-12.20/-12.90	-13.38/-13.90	-13.77/-13.74	-13.85/-13.47	-13.59/-13.06	-12.94/-13.58	-13.27/-12.68	-11.81/-11.47	-11.52/-11.42	-11.37/-12.10
Freq(Hz)	6.1750GPol.	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°)	4.694/4.43	4.324/2.29	4.634/9.0	5.095/1.7	5.125/2.6	5.265/1.0	5.024/9.3	5.005/1.2	5.074/9.3	4.804/5.5	4.474/3.5	4.264/5.1	4.634/7.3	4.895/2.0	5.515/7.1	5.976/1.0	5.936/0.3	5.705/7.1	5.465/2.9	5.044/9.3	4.874/8.2	4.774/7.1	4.884/7.4	
Θ(7.5°)	4.344/3.46	4.304/1.8	4.304/3.8	4.895/0.5	5.255/3.2	5.094/7.5	4.644/7.2	4.754/8.0	4.684/6.3	4.374/0.2	4.003/5.8	3.663/8.0	3.813/9.4	4.064/1.7	4.054/1.4	4.544/4.8	4.935/1.3	5.275/2.3	5.044/7.7	4.754/5.9	4.274/6.4	4.664/6.4	4.614/7.0	4.774/4.8
Θ(15°)	3.203/3.2	3.093/0.4	3.203/3.4	3.253/4.0	3.643/4.0	3.334/0.6	4.294/1.4	4.184/1.6	3.903/7.0	3.593/3.6	3.232/9.0	2.712/4.7	2.432/4.6	2.612/8.6	3.003/3.6	3.804/0.4	4.504/8.1	4.864/9.0	4.894/9.2	4.433/8.6	3.473/2.0	3.002/9.8	2.912/9.5	2.952/9.4
Θ(22.5°)	1.500/8.4	0.620/7.5	1.131/5.6	1.982/3.2	2.222/2.1	2.111/7.9	1.631/5.6	1.401/2.6	1.241/8.0	2.602/7.3	2.952/6.5	2.532/1.1	1.640/9.1	0.270/0.7	0.751/4.3	2.533/2.2	3.914/3.9	4.353/8.1	2.902/1.7	1.871/7.9	1.841/7.8	1.821/5.7	1.441/7.4	
Θ(30°)	-0.94/-1.57	-1.45/-0.90	-0.71/-0.91	-1.02/-1.28	-1.36/-0.93	-0.72/-0.70	3.202/9.2	1.040/9.2	1.271/6.3	2.132/8.6	3.653/9.5	4.063/6.7	3.242/4.6	1.150/0.1	-0.53/-0.61	-0.66/-1.14	-1.22/-0.49	0.51/-2.28	1.642/0.3	1.420/4.7	-0.240/4.1	0.600/6.3	0.14/-0.73	-1.50/-0.83
Θ(37.5°)	-2.77/-1.85	-1.77/-1.96	-2.84/-3.69	-2.77/-1.90	-1.20/-0.01	0.260/0.3	-0.98/-1.43	-1.46/-1.46	-0.790/0.1	0.60/-1.41	1.57/-1.96	1.41/-1.24	1.79/-1.55	0.63/-0.24	-1.24/-2.01	-2.09/-3.44	-5.49/-4.89	-3.22/-2.63	-1.82/-0.01	0.70/-0.36	-1.94/-3.18	-2.38/-1.97	-2.70/-1.92	-3.03/-2.80
Θ(45°)	-1.86/-1.05	-1.63/-1.62	-1.27/-0.75	0.180/2.7	1.200/7.8	-0.66/-1.84	4.28/-9.23	-8.25/-5.61	-6.99/-10.41	-6.69/-1.87	-0.260/5.7	0.271/0.1	1.621/8.1	0.04/-1.91	-3.15/-2.41	-4.13/-9.22	-9.95/-5.07	-4.06/-3.48	-1.72/-2.37	-3.73/-3.30	-4.46/-3.56	-2.39/-1.97	-2.84/-3.46	-3.72/-2.49
Θ(52.5°)	-1.41/-0.59	0.51/-3.4	1.93/-1.90	1.63/-1.63	1.781/2.7	0.22/-2.35	-0.61/-6.74	-6.04/-6.82	-11.94/-13.16	-5.60/-1.22	0.230/3.9	-0.90/-2.20	-3.62/-3.64	-2.70/-4.12	-6.00/-8.04	-5.04/-3.85	-2.81/-3.44	-3.78/-1.49	-2.36/-6.00	-6.31/-3.62	-4.92/-4.58	-8.64/-5.83	-2.96/-1.61	
Θ(60°)	-0.040/6.4	1.31/-1.68	1.99/-2.09	2.132/6.7	2.320/7.9	-0.94/-3.88	-4.75/-2.63	-2.71/-2.85	-5.50/-4.83	-2.17/-0.48	0.020/3.9	-0.22/-1.26	-3.14/-5.76	-3.45/-3.02	-2.41/-3.73	-5.98/-10.18	-8.31/-8.40	-6.00/-13.53	-11.72/-11.43	-11.73/-8.42	-3.62/-1.31	-1.73/-4.48	-4.60/-3.38	-0.67/-0.70
Θ(67.5°)	-1.15/-1.28	-1.96/-2.59	-2.09/-1.30	-0.30/-1.11	-3.85/-4.51	-6.13/-4.19	-0.87/-0.35	-0.77/-2.76	-4.11/-3.16	-2.21/-1.74	-2.93/-4.08	-4.35/-6.50	-6.66/-10.32	-10.46/-5.86	-5.73/-5.30	-5.01/-2.35	-3.30/-6.27	-7.16/-4.70	-3.46/-3.36	-2.27/-3.35	-6.10/-4.12	-2.05/-1.25	-1.36/-0.90	
Θ(75°)	-6.14/-5.16	-3.93/-4.02	-4.37/-4.44	-7.18/-7.62	-8.38/-13.90	-3.18/-0.50	0.060/3.6	-3.26/-5.43	-7.39/-6.54	-6.41/-6.70	-7.88/-6.20	-9.02/-13.56	-10.52/-9.26	-10.71/-12.96	-5.05/-6.41	-5.73/-2.97	-5.40/-6.33	-4.88/-4.93	-3.48/-3.65	-4.92/-8.80	-5.99/-1.45	-1.53/-2.82	-5.08/-6.09	
Θ(82.5°)	-4.91/-0.47	-4.18/-3.42	-2.59/-2.96	-3.02/-5.78	-7.94/-7.43	-3.67/-0.49	-0.82/-1.98	-0.300/-6.68	0.41/-1.22	-4.03/-6.52	-5.58/-4.91	-5.03/-6.13	-6.56/-5.14	-6.40/-8.17	-11.29/-12.60	-15.81/-12.65	-4.64/-3.43	-3.07/-7.07	-11.53/-6.40	-6.54/-4.49	-9.86/-11.39	-7.49/-6.62	-5.26/-6.45	-5.69/-4.47
Θ(90°)	4.09/-1.99	-0.35/-1.11	-0.84/-0.71	-1.23/-1.78	-1.240/-3.9	1.822/3.3	1.41/-0.83	-1.88/-1.46	-1.96/-1.48	-3.49/-1.98	-1.27/-0.89	-1.47/-2.65	-5.69/-9.97	-15.11/-11.78	-10.88/-10.92	-12.13/-9.78	4.42/-2.19	-4.25/-11.33	-5.66/-14.52	-8.98/-7.26	-9.01/-13.25	-4.69/-3.77	-4.60/-6.51	-7.51/-6.17
Θ(97.5°)	-9.05/-7.35	-4.44/-3.58	-2.55/-2.98	2.080/0.3	-0.43/-2.51	-1.11/-1.38	-0.97/-0.37	-1.06/-3.06	-4.02/-4.66	-3.21/-0.81	-0.03/-1.08	-2.41/-4.13	-5.36/-8.93	-14.92/-12.59	-7.04/-6.81	-10.00/-10.72	-13.92/-8.65	-4.00/-5.44	-6.10/-3.52	-5.85/-9.99	-6.02/-8.61	-5.32/-5.61	-6.95/-8.81	
Θ(105°)	-7.47/-9.63	-10.06/-10.31	-5.73/-4.09	-3.32/-3.57	-2.65/-2.52	-1.86/-2.06	-3.21/-12.54	-11.24/-6.90	-5.64/-2.79	-0.930/2.3	-0.82/-3.18	-9.72/-10.83	-5.99/-4.04	-8.86/-9.48	-10.68/-8.97	-10.23/-10.82	-6.76/-4.58	-1.63/-2.41	-5.95/-9.75	-14.09/-11.69	-11.01/-6.83	-5.29/-8.90	-12.66/-10.73	-7.00/-6.65
Θ(112.5°)	-5.75/-7.47	-9.81/-13.04	-11.49/-6.87	-6.65/-3.92	-3.17/-1.57	-4.13/-2.56	-6.49/-4.50	-3.35/-1.31	0.85/-1.67	2.050/3.3	-2.07/-3.64	-3.12/-4.14	-6.24/-9.30	-3.96/-3.30	-8.71/-8.28	-5.87/-1.77	-1.94/-3.49	-5.41/-7.02	-15.16/-9.94	-9.79/-5.67	-4.73/-6.35	-5.16/-5.90	-10.41/-5.59	-5.62/-5.92
Θ(120°)	-1.76/-2.12	-3.91/-4.75	-6.63/-7.37	-5.41/-3.21	0.251/2.3	2.261/9.0	1.271/0.6	1.22/-0.29	-0.87/-1.22	0.090/3.5	0.190/-4.8	-0.68/-1.53	-4.31/-5.20	-5.68/-9.66	-6.77/-1.52	-13.24/-12.37	-9.21/-8.70	-5.43/-2.66	-8.44/-4.13	-7.75/-5.61	-1.68			



Antenna Pattern_6GHz

Appendix D

Θ(112.5°)	-7.84/-7.18	-6.44/-4.29	-2.82/-3.65	-4.13/-2.53	-2.33/-5.12	-9.21/-5.78	-5.17/-4.27	-6.65/-8.15	-6.45/-6.20	-9.41/-14.59	-9.55/-10.64	-6.58/-5.52	-1.94/-1.21	-2.27/-5.44	-6.70/-9.90	-7.93/-11.64	-5.67/-6.91	-7.79/-3.41	-2.64/-3.46	-10.97/-10.52	0.15/0.79	0.36/-1.08	-3.94/-4.50	-2.47/-4.21
Θ(120°)	-0.28/-2.00	-5.25/-7.29	-6.88/-4.78	-4.72/-4.23	-3.53/-5.83	-7.25/-9.02	-9.62/-10.12	-15.74/-8.76	-5.36/-5.74	-15.82/-13.20	-13.17/-10.89	-6.95/-8.19	-8.00/-2.53	-5.35/-4.56	-2.77/-1.47	-3.46/-6.19	-10.40/-7.14	-7.45/-11.45	-3.35/-7.13	-9.26/-5.92	-3.30/-1.02	-4.92/-4.69	-0.91/-2.03	2.76/-0.92
Θ(127.5°)	-0.01/-0.09	-2.86/-5.63	-12.48/-11.29	-8.45/-5.70	-4.62/-5.45	-7.42/-4.99	-4.32/-5.56	-4.98/-5.97	-5.91/-12.38	-10.50/-5.61	-4.95/-9.09	-8.45/-7.32	-7.10/-4.32	-3.85/-3.56	0.71/2.79	-1.46/0.72	-4.20/-13.52	-2.33/1.82	-1.19/-3.94	-3.68/0.09	3.04/1.42	2.04/-1.51	-3.70/-1.38	1.30/-2.35
Θ(135°)	-3.27/-1.35	-3.36/-4.72	-9.24/-7.70	-8.15/-6.62	-4.95/-6.47	-6.36/-5.65	-10.61/-14.59	-12.61/-7.80	-10.36/-13.20	-8.18/-4.67	-3.45/-4.38	-5.34/-4.43	-1.77/-1.61	0.53/-2.34	-1.10/-0.42	0.98/4.49	1.11/-1.80	5.056.70	2.32/-0.40	2.95/3.48	3.71/3.99	0.88/-0.44	-3.82/-0.91	1.31/-0.23
Θ(142.5°)	-3.69/-2.50	-1.15/-1.01	-1.82/-4.06	-5.20/-4.06	-3.58/-2.90	-3.90/-6.60	-8.58/-10.02	-8.14/-5.99	-6.49/-7.67	-5.74/-5.84	-5.29/-4.91	-3.26/-4.02	-1.47/0.20	-0.41/-2.57	-3.12/-0.49	2.95/2.54	-1.21/2.07	6.03/6.25	2.26/-0.06	3.00/4.30	3.10/3.30	2.02/-0.60	0.79/2.68	3.78/2.79
Θ(150°)	1.31/0.60	1.05/0.67	0.22/1.04	1.16/0.22	0.42/-0.19	-1.51/-3.73	-5.80/-8.46	-10.95/-9.58	-7.42/-6.99	-6.53/-9.31	-12.09/-8.29	-8.14/-6.83	-1.67/1.09	1.85/0.59	-2.10/-2.53	-1.77/-3.56	-3.22/1.84	4.82/4.22	0.39/-3.80	-1.81/2.22	2.96/2.72	2.76/2.93	3.48/4.32	4.14/2.87
Θ(157.5°)	-0.70/-1.45	0.98/3.22	3.80/2.40	0.61/-0.02	-0.77/-1.76	-4.37/-9.51	-14.32/-11.06	-8.63/-8.30	-7.93/-6.03	-4.59/-5.31	-7.80/-8.27	-7.44/-8.05	-5.18/-1.07	-0.12/-1.01	-3.34/-5.16	-5.04/-2.92	-0.12/2.20	3.18/2.45	0.48/-1.90	-2.75/-0.75	0.50/1.68	2.20/3.39	4.53/4.82	4.35/3.11
Θ(165°)	1.78/1.31	1.24/0.49	-1.95/-3.10	-2.03/-2.50	-3.85/-5.47	-5.50/-6.82	-9.88/-12.18	-8.62/-6.84	-5.51/-3.54	-3.26/-4.43	-6.06/-7.50	-8.77/-8.30	-6.76/-4.56	-1.92/0.11	2.02/3.37	4.67/5.27	5.49/5.35	4.72/3.60	1.83/-0.37	-1.81/-1.80	-1.25/0.16	1.70/2.48	2.52/2.34	1.96/1.13
Θ(172.5°)	-6.48/-11.09	-10.71/-7.58	-3.61/-0.94	-1.36/-2.95	-4.82/-5.99	-7.43/-9.77	-12.96/-12.01	-11.72/-10.97	-9.00/-7.43	-6.77/-7.53	-7.83/-7.98	-6.23/-4.48	-0.24/-1.22	2.35/3.43	4.27/5.17	5.68/5.66	5.28/4.83	3.99/3.39	2.90/2.21	1.29/0.56	0.88/1.18	1.76/1.75	0.48/-0.37	-1.93/-4.22
Θ(180°)	-11.04/-12.53	-11.48/-8.78	-7.02/-6.77	-9.75/-12.10	-11.45/-8.85	-8.63/-8.92	-7.23/-6.36	-6.98/-8.49	-10.07/-10.58	-10.00/-10.46	-10.54/-10.53	-10.64/-11.11	-8.93/-7.20	-6.15/-5.36	4.53/-4.13	-3.68/-3.10	-2.79/-2.63	-2.71/-2.61	-2.47/-2.45	-2.39/-2.21	-2.00/-2.42	-2.40/-2.76	-3.45/-4.29	-6.20/-9.59
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°)	4.81/4.90	5.21/4.77	4.25/4.62	4.84/4.57	4.46/4.21	4.46/4.71	4.82/4.77	4.94/5.12	4.85/4.42	4.45/4.67	4.46/4.48	4.54/4.36	4.13/4.05	4.09/4.09	4.00/4.07	4.20/4.33	4.27/4.40	4.59/4.70	4.65/4.73	4.59/4.60	4.63/4.43	4.38/4.51	4.74/4.97	4.79/4.98
Θ(7.5°)	4.64/4.51	4.70/4.07	4.02/4.06	3.91/3.81	3.50/3.32	3.48/3.35	3.09/3.39	3.63/4.06	4.18/4.18	4.04/4.10	4.18/4.08	4.26/4.33	4.44/4.34	4.40/4.60	4.23/4.40	4.89/4.94	5.16/5.07	5.56/5.84	5.51/5.91	5.75/5.51	5.63/5.23	4.97/4.73	4.75/4.76	4.79/4.78
Θ(15°)	4.49/4.27	4.01/3.06	2.93/1.69	1.69/1.85	1.41/1.94	2.18/2.25	2.81/3.42	3.75/3.82	3.66/3.09	3.04/2.96	3.01/3.18	3.37/3.37	3.69/3.98	4.51/4.63	4.93/5.34	5.71/5.85	5.91/6.06	5.92/6.14	5.84/5.45	5.15/5.12	4.54/5.43	4.96/4.51	4.41/4.50	4.30/4.06
Θ(22.5°)	3.00/2.25	1.68/1.67	1.04/1.14	1.59/1.47	0.66/1.26	1.68/2.48	2.63/2.21	1.83/1.84	2.06/2.09	1.97/1.66	1.56/1.19	1.43/2.05	3.25/3.68	3.72/3.51	3.45/3.68	3.99/4.14	4.38/4.06	3.78/4.39	5.12/5.43	5.23/4.85	5.21/5.20	4.73/4.07	3.98/4.01	3.38/2.39
Θ(30°)	0.39/-1.10	-1.96/-2.40	-1.18/-0.47	-1.56/-1.48	-5.74/-4.15	-2.58/-1.68	-1.71/-2.18	-9.87/-2.63	-0.44/0.97	2.05/4.42	1.93/0.66	-0.78/-0.71	-0.60/0.18	1.29/1.82	1.84/1.53	1.29/1.42	1.94/2.63	3.18/3.35	2.74/2.41	2.22/2.34	2.58/3.11	3.29/3.33	2.53/1.94	1.14/0.82
Θ(37.5°)	-4.88/-4.26	-4.54/-4.16	-4.74/-6.72	-6.04/-7.08	-9.77/-15.00	-9.91/-8.29	-10.71/-11.76	-8.23/-6.93	-7.16/-7.22	-5.82/-2.85	-0.55/-1.12	-2.96/-3.46	-2.39/-0.80	-0.27/-0.17	0.17/0.07	-0.52/-0.05	1.09/0.52	-1.21/-0.76	0.60/1.07	0.73/1.63	1.83/1.84	1.31/1.04	-2.12/-3.82	-3.57/-2.46
Θ(45°)	-3.45/-3.85	-4.27/-6.06	-13.96/-8.63	-8.75/-15.27	-15.11/-10.11	-7.88/-7.22	-7.58/-8.05	-6.00/-3.37	-3.74/-5.62	-4.53/-3.62	-3.40/-4.17	-4.70/-5.84	-4.79/-0.90	0.45/0.59	1.31/1.15	0.34/-0.41	-2.03/-3.05	-1.96/-1.78	-3.28/-1.82	0.53/0.85	-0.61/-1.46	-0.95/-3.71	-6.38/-5.56	-3.37/-2.40
Θ(52.5°)	-3.11/-3.06	-4.83/-8.71	-12.44/-12.44	-9.08/-9.20	-8.78/-13.52	-6.67/-3.98	-5.97/-10.75	-7.12/-8.36	-3.21/-4.67	-5.26/-1.95	-4.17/-6.48	-4.89/-5.56	-4.00/-0.49	0.86/0.45	2.09/1.85	-0.22/-1.30	-1.40/-2.86	-5.40/-5.31	-1.98/0.07	1.60/0.82	-1.34/-4.99	-4.45/-4.53	-5.86/-3.65	-3.02/-2.57
Θ(60°)	-7.04/-8.89	-9.27/-7.92	-3.88/-4.53	-5.19/-4.34	-6.20/-10.55	-4.19/-4.34	-16.01/-13.03	-8.70/-7.39	-2.97/-3.89	-4.35/-7.08	-9.12/-11.44	-1.34/-4.37	-4.28/-2.20	0.81/0.17	-0.20/-1.22	-1.29/-2.31	-2.04/-3.72	-5.88/-5.02	-1.57/-0.49	-1.40/-0.17	-0.60/-1.72	-1.49/0.16	0.02/-1.81	-3.33/-7.65
Θ(67.5°)	-6.58/-3.60	-2.73/-2.56	-5.04/-7.20	-9.97/-5.87	-3.37/-6.93	-10.36/-7.60	-8.47/-13.88	-8.14/-2.99	-1.87/-3.13	-8.93/-6.45	-10.88/-15.15	-7.03/-9.63	-7.18/-4.16	-1.96/-3.68	-1.42/-1.55	-6.36/-5.64	-3.17/-4.00	-4.31/-1.41	0.00/-0.89	-1.19/0.63	2.28/1.82	0.75/-2.31	-4.53/-8.85	-8.17/-3.04
Θ(75°)	-9.23/-11.30	-7.39/-5.13	-6.40/-6.04	-7.24/-6.56	-6.22/-12.63	-6.50/-3.00	-3.05/-5.36	-12.26/-6.43	-0.88/-4.30	-8.13/-8.15	-15.32/-13.58	-6.09/-5.58	-4.18/-2.16	-4.05/-3.16	-3.99/-5.47	-7.97/-6.96	-1.74/-3.78	-2.28/1.85	2.41/1.98	-0.16/0.77	0.66/-0.51	-3.39/-5.39	-6.42/-7.31	-2.52/-4.55
Θ(82.5°)	-9.07/-11.51	-7.85/-7.01	-4.45/-3.77	-5.30/-6.57	-4.73/-12.40	-11.56/-9.45	-11.56/-14.76	-13.25/-7.02	-4.35/-10.41	-15.03/-14.41	-7.62/-11.47	-8.87/-8.20	-3.75/-3.75	-0.80/-9.52	-1.29/-2.21	-1.29/-2.31	-2.04/-3.72	-5.88/-5.02	-1.57/-0.49	-1.40/-0.17	-0.60/-1.72	-1.49/0.16	0.02/-1.81	-3.33/-7.65
Θ(90°)	-8.66/-5.94	-9.11/-6.14	-7.93/-6.38	-7.13/-5.14	-11.89/-10.22	-4.00/-2.57	-2.95/-1.17	-3.53/-7.87	-4.81/-2.26	-5.77/-11.34	-5.82/-8.73	-13.81/-10.59	-12.15/-5.00	-6.76/-4.93	-4.86/-4.25	-5.34/-6.66	-3.78/0.56	0.31/0.87	1.59/1.64	1.67/0.52	-0.11/-0.77	-1.20/-4.23	-6.24/-2.04	-3.80/-7.14
Θ(97.5°)	-6.96/-6.83	-7.48/-6.40	-8.35/-8.10	-7.46/-6.99	-11.17/-14.00	-8.93/-9.26	-13.79/-8.42	-6.78/-8.82	-12.38/-13.77	-15.75/-15.81	-12.12/-13.95	-15.23/-13.61	-8.47/-7.11	-9.44/-8.97	-5.24/-7.15	-4.81/-1.82	-0.18/1.82	-3.60/2.18	3.60/2.18	-0.14/-0.93	-3.00/-3.63	-3.91/-4.27	-5.40/-4.07	-5.10/-8.10
Θ(105°)	-4.68/-4.01	-7.47/-3.38	-1.79/-3.77	-3.31/-1.27	-6.87/-15.00	-10.97/-7.71	-7.87/-5.77	-5.40/-4.74	-9.87/-8.20	-13.79/-8.97	-10.46/-5.38	-6.22/-4.25	-2.78/-7.49	-0.28/-6.30	-1.51/-5.70	-0.30/0.77	-0.49/1.66	-1.21/-4.88	-2.33/-1.53	-3.80/-6.38	-5.56/-1.79	-3.88/-9.05		
Θ(112.5°)	-12.33/-5.94	-4.80/-2.92	-0.61/-0.67	-1.54/-1.40	-1.81/-6.32	-9.63/-12.17	-11.49/-14.97	-12.74/-9.77	-6.85/-6.65	-10.00/-13.59	-12.58/-9.68	-5.51/-7.63	-3.86/-4.28	-4.85/-4.51	-3.90/-10.49	-6.49/-3.48	-0.98/-3.16	-0.87/0.21	1.57/1.77	-2.46/-0.65	-1.18/-2.02	-3.32/-2.00	-4.10/-6.48	-9.07/-8.78
Θ(120°)	-5.13/-7.27	-3.07/-3.66	-4.53/-7.16	-4.34/-5.82	-7.22/-5.00	-6.10/-11.92	-14.54/-7.60	-9.47/-9.49	-10.37/-9.21	-14.51/-15.51	-9.91/-6.02	-7.98/-9.92	-7.50/-7.11	-5.46/-5.04	-6.08/-9.07	-11.05/-4.95	-2.38/-0.08	-0.82/-1.21	-0.71/-0.54	-6.86/-8.29	-2.50/-2.66	-1.23/-2.66	0.66/2.28	0.59/-5.31
Θ(127.5°)	-2.72/-3.74	-1.78/-2.48	-6.23/-10.43	-13.58/-6.41	-7.14/-6.09	-4.46/-7.45	-4.27/-1.40	-3.60/-5.85	-7.24/-6.39	-8.95/-8.81	-6.81/-10.21	-6.26/-6.52	-6.05/-3.34	-4.27/-4.06	-2.15/0.05	-1.49/-2.83	-2.30/-5.07	0.87/2.83	0.47/-2.85	-0.77/2.72	2.81/1.68	0.10/-9.38	-0.06/3.35	0.33/-9.89
Θ(135°)	-5.43/-3.76	-6.88/-4.57	-7.29/-13.40	-12.67/-15.15	-14.38/-13.29	-10.88/-6.27	-6.99/-13.70	-13.87/-13.62	-14.66/-10.64	-10.21/-10.07	-9.96/-6.00	-5.82/-10.72	-5.19/-5.55	-0.18/-1.33	0.77/2.40	1.05/4.85	2.08/1.12	6.206.77	3.17/-0.82	2.56/3.02	4.18/0.93	-1.22/-3.29	-8.55/-4.84	-1.82/-2.49
Θ(142.5°)	-1.42/-1.44	-3.95/-4.92	-3.64/-4.27	-10.34/-8.95	-7.16/-4.68	-6.24/-6.75	-7.16/-9.13	-15.57/-7.94	-5.48/-7.32	-13.88/-14.85	-7.13/-4.78	-12.08/-12.51	-3.45/-0.40	-2.58/-4.59	-2.68/-2.56	0.11/1.01	-1.72/-1.10	5.23/5.75	1.41/0.84	2.68/2.40	2.15/3.20	1.34/0.45	0.57/2.50	3.57/1.50
Θ(150°)	-0.63/-0.39	0.67/0.55	0.49/1.47	1.80/0.65	-1.27/-2.30	-2.78/-4.98	-8.06/-9.47	-9.86/-11.87	-9.46/-8.10	-9.24/-13.81	-13.09/-5.74	-5.51/-9.34	-8.62/-3.02	-1.29/-2.63	-1.87/-1.20	-2.46/-4.10	-5.05/-1.54	2.53/2.77	-0.44/-2.04	0.29/2.70	2.22/1.09	1.57/2.49	3.68/4.57	4.06/2.53
Θ(157.5°)	-2.38/-2.17	0.12/1.99	2.38/1.05	-0.25/-0.49	-1.13/-2.60	-5.35/-9.27	-12.84/-12.29	-11.07/-11.93	-10.13/-8.59	-8.86/-11.78	-12.01/-6.82	-5.56/-7.05	-6.89/-4.45	-4.30/-3.42	-2.41/-2.65	-4.55/-4.29	-1.88/0.55	-0.94/-1.04	-4.00/-4.05	-1.94/-0.15	0.52/-0.05	0.92/2.48	3.36/3.23	2.50/-6.19
Θ(165°)	-1.96/-1.19	-1.21/-1.03	-1.57/-1.07	-0.37/-0.87	-2.73/-5.26	-6.58/-7.70	-8.19/-11.31	-10.25/-9.24	-7.94/-6.20	-5.54/-5.99	-6.94/-8.69	-8.98/-8.34	-8.39/-6.66	-5.30/-4.09	-2.21/-0.00	2.19/3.94	5.13/5.48							

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

