



Antenna Pattern of 6GHz

Appendix B.2

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°)	-3.98/-4.22	-4.38/-5.13	-5.12/-5.07	-5.74/-6.48	-6.45/-5.43	-8.85/-5.07	-5.88/-5.62	-5.73/-5.29	-4.62/-5.01	-5.62/-5.75	-5.96/-6.12	-4.77/-5.75	-5.01/-4.44	-4.30/-4.70	-4.89/-4.35	-4.63/-4.69	-4.37/-4.60	-5.68/-5.52	-4.91/-5.01	-5.83/-6.70	-5.74/-4.99	-4.82/-4.52	-4.33/-4.35	-3.53/-3.85
Θ(7.5°)	-4.00/-4.48	-4.28/-4.04	-3.89/-3.93	-4.53/-4.08	-4.40/-4.63	-4.91/-4.94	-4.62/-5.16	-6.01/-6.50	-5.88/-7.51	-7.79/-7.88	-7.89/-7.99	-6.96/-7.04	-5.62/-4.68	-4.84/-5.73	-5.45/-4.82	-5.75/-4.68	-5.06/-3.78	-4.58/-6.86	-6.02/-4.11	-3.63/-4.35	-4.29/-3.75	-4.62/-2.22	-1.94/-1.97	-2.14/-3.27
Θ(15°)	-3.43/-4.00	-4.35/-4.63	-5.37/-4.72	-4.25/-4.11	-4.81/-5.46	-5.55/-5.07	-4.43/-4.38	-5.10/-6.43	-6.43/-6.38	-6.71/-7.26	-6.86/-6.27	-4.84/-3.86	-3.23/-3.42	-3.69/-3.19	-2.72/-2.78	-3.50/-3.99	-3.69/-3.28	-3.45/-4.44	-5.31/-5.50	-5.28/-4.55	-4.71/-5.20	-4.48/-3.52	-2.55/-2.13	-2.58/-3.19
Θ(22.5°)	-4.12/-4.21	-3.89/-3.04	-2.61/-2.86	-4.27/-5.10	-4.11/-3.00	-2.62/-2.53	-2.71/-2.70	-2.43/-2.32	-2.32/-2.60	-3.78/-5.21	-4.95/-3.84	-1.73/-0.32	0.11/-0.55	-1.29/-1.30	-1.15/-1.61	-1.79/-2.47	-3.14/-3.16	-3.41/-4.34	-4.85/-4.09	-3.59/-3.21	-2.90/-2.46	-3.05/-4.01	-4.20/-3.37	-2.88/-3.42
Θ(30°)	-2.89/-2.55	-2.61/-4.43	-5.24/-5.47	-5.51/-6.78	-5.56/-4.53	-4.84/-6.81	-5.83/-4.75	-4.35/-4.06	-2.54/-1.75	-1.53/-1.91	-2.92/-2.86	-2.01/-0.82	-0.25/-0.07	-0.07/-0.49	0.42/-0.42	-1.60/-2.79	-3.94/-5.15	-6.19/-6.25	-6.46/-5.93	-4.83/-2.67	-1.52/-1.46	-3.27/-5.58	-3.42/-0.81	-0.21/-1.64
Θ(37.5°)	-4.11/-3.38	-2.34/-3.08	-5.06/-6.88	-6.84/-6.05	-5.02/-5.28	-6.02/-6.19	-6.70/-6.92	-5.39/-3.44	-2.78/-2.47	-1.60/-0.44	-0.77/-0.86	-0.52/-0.01	-0.23/-1.77	-2.04/-0.78	-1.08/-1.51	-0.83/-0.57	-1.17/-1.43	-0.38/-0.45	-2.05/-2.88	-2.28/-2.96	-3.20/-1.25	-0.90/-2.08	-2.97/-0.53	0.48/-1.43
Θ(45°)	-1.68/-0.62	-2.32/-3.88	-7.63/-6.98	-6.51/-7.53	-6.09/-4.06	-2.37/-2.17	-2.66/-1.96	-0.51/-0.22	0.43/-0.35	-0.95/-0.39	1.45/-0.94	0.24/-0.84	1.30/-0.27	-0.29/-0.52	-0.59/-0.93	0.56/-1.68	1.95/-0.98	-0.54/-1.19	-1.46/-1.15	0.29/-1.09	1.12/-1.27	0.71/-1.65	-5.78/-2.20	0.36/-0.38
Θ(52.5°)	-2.34/-0.92	-4.30/-7.47	-2.10/-4.61	-8.85/-6.69	-6.99/-4.35	-3.08/-2.12	-2.37/-3.40	-2.26/-0.54	0.54/-0.56	-0.85/-1.37	1.45/-2.28	0.83/-0.77	0.47/-0.95	0.70/-1.56	0.23/-0.85	2.12/-1.25	0.05/-1.51	-2.07/-1.98	-2.76/-4.75	-4.85/-2.22	0.28/-1.86	2.47/-1.45	-2.28/-0.61	0.78/-2.87
Θ(60°)	-0.34/-0.87	-2.18/-0.92	-1.07/-1.64	-7.94/-7.64	-8.34/-8.78	-6.76/-3.67	-1.41/-0.35	-0.42/-0.28	1.10/-0.53	-0.50/-2.61	-1.80/-0.90	-4.45/-1.21	-1.44/-4.05	-0.31/-0.66	-0.96/-2.10	-5.33/-7.24	-5.63/-3.74	-4.63/-4.34	-2.31/-2.34	-1.83/-0.90	2.46/-2.09	-0.77/-0.92	-2.43/-2.13	
Θ(67.5°)	0.90/-0.26	-0.63/-5.33	-2.73/-9.20	-7.78/-7.51	-12.84/-14.98	-12.27/-7.48	-3.80/-2.42	-3.03/-1.60	1.69/-2.25	1.09/-0.08	-1.32/-1.52	-0.63/-0.30	0.12/-2.86	1.30/-0.66	-1.33/-1.54	0.00/-2.82	-4.02/-4.71	-2.61/-2.60	-2.04/-1.61	-1.15/-0.07	0.02/-1.61	1.13/-0.27	-1.11/-1.36	1.17/-0.99
Θ(75°)	0.98/-0.47	0.50/-1.33	-1.86/-8.20	-6.27/-7.97	-4.62/-2.75	-5.47/-7.01	-4.56/-8.07	-0.15/-2.15	0.03/-0.10	-0.68/-1.59	-1.86/-1.50	1.66/-0.59	0.55/-2.10	1.12/-0.25	-0.54/-2.48	1.22/-2.39	-2.73/-3.63	0.40/-0.63	-2.34/-1.22	-0.09/-0.94	0.34/-1.14	1.04/-0.75	-1.15/-0.32	0.42/-1.75
Θ(82.5°)	2.06/-0.79	1.00/-1.36	-0.77/-7.64	-8.44/-3.88	-6.00/-4.40	-3.78/-2.51	-2.58/-2.73	-1.86/-4.32	-1.26/-2.83	1.50/-1.18	-1.03/-0.26	0.02/-0.64	0.15/-1.43	1.01/-0.50	-1.04/-1.22	-0.31/-0.19	-2.64/-0.57	1.02/-0.46	-0.57/-2.67	1.33/-3.38	2.57/-0.69	2.09/-2.55	-1.32/-0.96	0.60/-1.87
Θ(90°)	1.06/-2.14	-1.29/-2.74	-0.53/-11.83	-5.12/-5.75	-5.35/-1.09	1.98/-2.08	2.57/-1.38	-0.76/-3.11	-3.40/-2.26	-0.18/-0.57	-1.58/-1.05	0.81/-0.34	1.03/-0.52	2.13/-0.72	-0.12/-0.68	1.49/-4.48	2.28/-4.20	1.61/-0.63	0.05/-0.18	2.37/-3.33	3.42/-1.53	2.90/-2.73	-1.57/-0.54	0.29/-2.28
Θ(97.5°)	0.76/-3.56	-1.10/-4.04	-1.72/-9.89	-9.95/-7.71	-9.29/-3.07	-0.02/-0.10	-0.32/-2.11	-2.82/-1.95	1.01/-2.69	0.93/-1.52	-1.90/-0.34	-0.20/-1.31	-0.10/-0.40	2.98/-0.07	-1.39/-0.73	4.24/-2.22	4.25/-6.55	2.52/-0.16	2.06/-1.82	3.61/-1.01	3.27/5.06	2.76/-6.55	0.20/-0.09	-0.67/-1.03
Θ(105°)	-2.50/-7.23	0.88/-3.22	0.22/-11.13	-12.21/-7.57	-7.12/-2.07	-10.43/-6.03	0.91/-2.12	-5.65/-4.38	-2.15/-0.70	-1.91/-0.76	-0.95/-0.83	0.63/-0.59	-1.12/-1.10	1.84/-0.24	-1.37/-0.76	0.45/-1.11	3.99/-4.35	2.59/-2.17	2.99/-2.18	1.11/-2.76	3.79/-3.37	3.65/-1.58	-1.22/-4.17	-3.38/-2.54
Θ(112.5°)	-3.54/-8.92	-0.20/-3.30	-1.06/-8.17	-11.01/-8.05	-7.09/-12.47	-4.42/-5.49	-11.95/-4.52	0.53/-2.29	-0.48/-1.14	-0.15/-2.22	-0.26/-4.14	1.16/-0.95	-1.71/-1.56	0.16/-0.02	-1.63/-0.49	1.58/-2.20	3.31/-3.30	0.62/-0.67	2.71/-1.37	1.59/-0.34	0.92/-2.55	0.99/-0.58	-0.75/-2.77	-1.93/-3.19
Θ(120°)	-6.08/-9.15	-2.33/-3.60	-4.91/-5.78	-8.21/-10.33	-9.48/-7.70	-8.62/-8.46	-5.00/-1.03	2.26/-2.16	0.16/-2.15	0.96/-1.69	1.01/-1.10	-1.62/-0.63	-0.52/-1.07	0.77/-0.25	-4.08/-3.44	-1.36/-1.85	1.33/-1.11	-1.43/-1.36	0.80/-3.13	-0.05/-6.10	-2.37/-2.44	-3.20/-2.19	-5.56/-2.08	-0.56/-0.28
Θ(127.5°)	-1.13/-8.74	-2.15/-3.41	-9.12/-4.99	-5.11/-14.37	-10.43/-6.03	-4.53/-2.67	-1.09/-2.60	-1.83/-0.65	-0.22/-2.25	-0.05/-0.96	-4.77/-3.75	-2.63/-2.92	-0.78/-0.92	-0.45/-2.67	-1.87/-1.18	0.02/-0.99	-2.54/-7.27	-3.61/-2.07	-3.56/-11.85	-4.55/-1.52	-0.91/-1.83	-3.92/-8.44	-2.43/-2.72	
Θ(135°)	-0.17/-12.95	-5.86/-2.72	-13.05/-6.35	-3.50/-3.73	-7.04/-7.33	-4.31/-3.82	-5.07/-4.86	-4.48/-2.67	-2.90/-3.05	-3.78/-4.68	-0.37/-0.70	-1.37/-2.92	-4.21/-3.12	-0.43/-1.31	-7.49/-6.34	-4.72/-0.07	0.78/-0.90	0.95/-4.06	-1.83/-3.35	2.47/-4.84	-11.64/-1.72	0.31/-3.35	-10.54/-9.18	-6.50/-2.59
Θ(142.5°)	-8.57/-11.27	-3.66/-7.53	-16.04/-8.31	-3.75/-8.74	-11.06/-9.67	-7.37/-6.65	-8.64/-8.13	-7.40/-6.35	-4.38/-5.51	-5.60/-6.29	-1.27/-1.02	-0.47/-2.53	-5.25/-5.06	1.11/-2.90	-5.57/-12.05	-5.09/-0.09	-0.95/-0.02	-2.21/-5.82	-3.36/-1.35	0.43/-7.76	-15.18/-10.80	-9.42/-3.92	-10.20/-5.92	-10.13/-7.09
Θ(150°)	-9.88/-3.88	-1.70/-2.59	-5.08/-7.61	-6.86/-7.66	-8.76/-12.48	-15.02/-13.38	-10.64/-7.03	-6.62/-7.81	-6.47/-9.60	-3.84/-1.62	-2.12/-3.24	-5.34/-6.52	-9.80/-1.06	-6.58/-5.34	-5.67/-9.74	-11.77/-13.27	-14.67/-12.95	-12.96/-5.58	-1.91/-3.23	-11.76/-9.88	-13.85/-8.73	-8.45/-6.55	-3.74/-2.39	
Θ(157.5°)	-6.62/-7.01	-5.89/-8.48	-12.84/-11.68	-9.26/-8.96	-9.77/-9.91	-11.50/-11.03	-9.84/-9.36	-7.88/-4.98	-2.97/-2.20	-1.53/-1.29	-2.39/-5.37	-9.56/-7.65	-7.83/-8.50	-6.51/-6.03	-7.65/-10.88	-13.14/-11.26	-8.32/-8.34	-10.24/-11.39	-9.61/-6.55	-6.13/-5.11	-4.76/-7.69	-7.91/-5.14	-3.50/-4.63	-6.16/-6.21
Θ(165°)	-11.65/-9.27	-8.49/-6.71	-7.55/-5.59	-4.16/-3.73	-4.38/-5.71	-7.30/-7.10	-7.12/-7.71	-6.61/-6.44	-3.20/-1.95	-1.54/-1.67	-1.87/-1.83	-1.89/-1.88	-1.79/-1.49	-1.57/-2.23	-3.41/-4.08	-5.85/-6.90	-7.74/-8.25	-7.60/-5.11	-3.40/-2.65	-2.45/-3.17	-5.30/-6.41	-5.26/-3.52	-3.61/-7.54	-8.25/-10.40
Θ(172.5°)	-8.41/-5.29	-6.84/-6.55	-8.06/-9.03	-7.26/-7.41	-8.04/-7.82	-6.26/-5.98	-6.08/-5.47	-4.23/-2.96	-2.04/-1.34	-0.62/-0.35	-0.46/-0.57	-1.18/-1.38	-1.23/-0.96	-0.59/-0.19	-0.06/-0.42	-0.76/-0.88	-0.75/-0.99	-1.40/-1.92	-2.53/-2.58	-2.33/-2.91	-5.42/-10.91	-4.54/-13.23		
Θ(180°)	-4.43/-4.66	-5.10/-5.16	-4.40/-4.30	-4.56/-4.74	-4.00/-2.97	-2.59/-2.50	-2.13/-2.14	-2.27/-2.59	-2.68/-2.92	-3.12/-3.20	-3.43/-3.69	-3.87/-4.24	-4.71/-5.29	-5.83/-6.29	-6.23/-6.32	-6.49/-6.08	-4.91/-3.65	-3.44/-3.39	-3.08/-3.19	-3.53/-4.74	-5.05/-5.83	-6.44/-6.71	-6.02/-4.80	-4.09/-4.71
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°)	-3.72/-3.60	-3.27/-3.80	-4.33/-4.62	-4.71/-4.30	-4.85/-4.77	-3.97/-3.12	-2.86/-3.52	-3.85/-3.62	-3.34/-3.09	-3.14/-3.37	-3.64/-4.10	-4.35/-3.67	-2.94/-3.21	-3.90/-3.95	-3.33/-3.42	-4.16/-4.25	-3.11/-3.08	-3.51/-3.42	-2.82/-3.06	-3.10/-2.95	-2.25/-2.33	-2.71/-2.52	-2.96/-3.52	-4.10/-9.95
Θ(7.5°)	-3.46/-3.89	-4.35/-4.30	-3.46/-2.98	-3.73/-4.86	-5.02/-4.59	-4.38/-4.71	-4.90/-5.18	-6.37/-6.05	-4.94/-5.09	-5.44/-4.88	-4.46/-4.13	-4.22/-3.89	-4.10/-4.66	-4.60/-4.39	-4.03/-4.36	-5.10/-4.82	-4.05/-4.02	-4.30/-4.21	-3.45/-3.07	-2.61/-2.51	-2.43/-2.67	-3.06/-2.67	-2.86/-3.26	-3.27/-3.24
Θ(15°)	-2.29/-2.22	-2.67/-2.82	-2.93/-2.42	-2.89/-3.70	-3.83/-4.31	-3.90/-3.18	-2.95/-3.44	-3.87/-3.71	-5.03/-4.18	-5.34/-4.90	-4.01/-3.43	-2.90/-3.29	-2.26/-2.33	-2.68/-2.82	-2.48/-2.66	-2.54/-2.73	-2.86/-2.99	-3.10/-3.53	-4.24/-4.07	-3.59/-3.37	-3.04/-2.94	-2.76/-2.69	-1.81/-1.89	
Θ(22.5°)	-0.56/-1.37	-2.52/-2.10	-1.37/-1.37	-1.97/-3.88	-6.38/-7.80	-8.14/-8.44	-7.77/-6.63	-6.63/-6.37	-5.62/-4.65	-4.37/-4.19	-2.99/-1.85	-1.31/-1.32	-2.02/-2.20	-1.78/-1.08	-0.86/-0.91	-1.37/-1.83	-2.05/-1.98	-2.23/-3.15	-4.08/-3.24	-2.14/-2.73	-2.81/-2.20	-1.74/-1.67	-1.37/-1.17	-0.17/-0.42
Θ(30°)	-3.07/-4.14	-2.50/-0.62	-0.93/-4.09	-8.24/-7.25	-5.78/-5.19	-4.42/-3.69	-3.86/-3.01	-2.15/-1.27	-2.84/-2.32	-1.29/-1.20	-1.26/-0.41	0.45/-0.11	-0.76/-0.73	0.54/-0.05	0.43/-0.66	-0.84/-0.47	-0.65/-0.81	-0.88/-1.99	-2.90/-2.42	-2.13/-2.80	-2.97/-2.39	-0.77/-0.29	-1.38/-3.23	-3.35/-6.23
Θ(37.5°)	-2.59/-5.03	-1.87/-1.42	-5.25/-11.21	-9.38/-5.84	-5.39/-5.13	-4.60/-4.14	-3.76/-3.08	-2.56/-2.60	-2.35/-2.16	-0.62/-0.66	-0.14/-0.41	0.37/-0.33	-0.81/-0.64	1.00/-0.28	-0.97/-1.29	-2.52/-4.72	-4.78/-4.32	-3.95/-2.83	-1.20/-1.61	-2.57/-2.28	-1.99/-3.53	-2.46/-0.81		
Θ(45°)	-1.79/-2.17	0.52/-0.34	-6.19/-6.67	-7.65/-6.60	-5.38/-5.00	-5.44/-5.75	-4.23/-3.85	-3.75/-2.62	-1.90/-1.71	-2.53/-1.43	-0.01/-													



Antenna Pattern of 6GHz

Appendix B.2

Θ(22.5°)	-1.24/-1.28	-1.01/-1.07	-1.47/-1.73	-1.89/-1.78	-1.91/-1.89	-1.98/-2.20	-2.53/-2.73	-3.66/-4.96	-6.07/-6.46	-5.45/-4.84	-5.23/-6.51	-7.49/-6.81	-4.65/-2.53	-0.90/-0.34	-0.81/-1.75	-2.67/-3.75	-4.81/-5.24	-4.81/-4.01	-3.77/-4.06	-5.15/-5.71	-5.97/-5.72	-5.06/-4.40	-3.52/-2.62	-2.24/-1.82
Θ(30°)	-1.43/-0.65	-0.44/-0.62	-1.26/-2.00	-2.28/-2.34	-2.52/-2.17	-1.96/-1.88	-2.18/-2.75	-3.61/-5.28	-7.88/-9.84	-7.93/-4.62	-3.06/-3.64	-4.82/-5.17	-4.24/-2.21	-0.62/-0.11	-1.78/-4.95	-6.82/-5.15	-3.83/-3.51	-3.17/-3.38	-3.90/-3.94	-3.64/-4.20	-5.98/-7.55	-7.86/-6.82	-5.09/-3.06	-1.93/-1.90
Θ(37.5°)	-1.12/-0.54	-0.48/-0.96	-2.13/-3.73	-3.02/-2.51	-2.34/-2.87	-4.52/-6.31	-7.16/-6.65	-5.24/-4.05	-4.42/-5.68	-7.31/-5.29	-2.00/-1.30	-2.26/-4.14	-3.97/-0.41	1.01/-0.23	-4.41/-8.24	-8.16/-2.75	-7.55/-6.36	-4.82/-2.76	-1.48/-1.20	-1.39/-1.86	-1.47/-1.73	-2.42/-3.53	-3.99/-2.59	-1.16/-0.46
Θ(45°)	-0.84/-0.57	-0.61/-0.83	-1.26/-2.01	-3.02/-3.53	-4.35/-5.28	-5.89/-5.75	-5.59/-6.10	-7.22/-6.87	-3.74/-2.21	-2.94/-4.22	-2.84/-0.64	-0.31/-1.28	-1.05/-1.17	1.87/-1.12	-1.49/-4.93	-8.09/-10.90	-8.12/-5.37	-5.16/-5.96	-5.21/-3.84	-2.90/-1.78	-1.80/-1.25	-0.650/-1.6	-0.39/-1.12	-0.98/-1.10
Θ(52.5°)	-0.130/-0.19	0.510/0.53	-1.46/-3.29	-4.29/-4.88	-4.10/-5.45	-5.36/-4.72	-3.74/-3.06	-3.30/-4.52	-7.11/-4.18	-2.16/-1.34	-1.18/-0.66	-0.84/-0.48	0.47/-1.48	1.750/0.95	-2.51/-7.14	-13.57/-7.30	-2.26/-1.69	-4.49/-3.25	-0.59/-1.52	2.062/-36	1.970/-99	0.030/0.53	0.85/-0.19	
Θ(60°)	0.601/0.34	1.210/0.52	-1.64/-2.42	-2.41/-1.83	-1.39/-1.42	-3.34/-6.02	-7.43/-6.83	-5.02/-4.52	-4.47/-2.91	-1.95/-0.92	-0.010/0.65	0.210/-27	0.662/0.0	2.280/0.60	-3.55/-6.55	-5.36/-0.59	0.460/0.84	-0.30/-1.85	-3.04/-4.04	-1.71/-1.85	3.954/5.9	4.924/11	2.480/-76	0.720/-95
Θ(67.5°)	1.732/0.18	2.310/0.42	-1.49/-1.92	-0.490/0.79	0.77/-0.42	-2.42/-8.46	-15.91/-7.50	-4.12/-5.46	-6.53/-4.73	-3.20/-0.70	1.290/0.85	-0.430/-0.16	1.312/0.89	3.050/0.13	-4.11/-6.16	-4.020/0.38	0.177/-0.48	-1.44/-2.57	-4.85/-3.43	-0.45/-1.83	3.184/24	5.224/95	3.750/92	-0.14/-1.09
Θ(75°)	2.212/-57	2.71/-96	-0.24/-1.96	0.232/0.4	2.530/0.28	-2.47/-4.54	-6.76/-6.34	-6.34/-6.96	-4.09/-1.28	-1.70/-1.98	0.500/0.70	-0.630/-81	1.14/-61	1.05/-0.55	-2.25/-4.15	-3.04/-0.85	-1.27/-1.07	-2.25/-4.34	-9.82/-8.45	-4.50/-0.29	2.904/25	5.114/58	3.600/97	-1.960/-50
Θ(82.5°)	2.822/27	2.820/73	-3.21/-2.43	1.582/95	1.730/13	-0.56/-0.52	-1.78/-4.24	-5.11/-6.96	-5.47/-1.34	-2.01/-3.33	-0.91/-1.01	-2.50/-0.23	0.740/50	-0.82/-2.26	-3.34/-4.40	0.40/-0.45	-0.47/-2.80	-5.02/-6.32	-6.13/-2.40	-0.870/-47	2.723/56	4.404/61	3.61/-0.05	-0.97/-1.07
Θ(90°)	2.121/76	3.010/29	-4.47/-2.49	-0.240/0.51	-0.75/-0.13	1.201/14	-0.11/-1.76	-4.03/-6.34	-5.59/-2.35	-2.60/-3.71	0.240/52	-2.50/-1.01	-1.23/-0.53	-0.74/-2.14	-1.82/-3.19	-0.69/-0.48	1.760/61	-2.05/-4.90	-2.45/-2.11	-0.770/86	2.913/87	4.034/11	3.110/56	-1.120/99
Θ(97.5°)	2.002/46	3.01/-0.42	-1.120/-19	-0.09/-0.81	-1.76/-2.00	0.430/-44	-1.15/-2.65	-5.00/-7.09	-9.66/-2.27	-1.43/-6.82	-1.48/-0.54	-4.58/-1.40	-0.02/-1.11	-1.38/-1.45	-4.27/-2.98	-0.29/-1.50	1.940/13	-1.66/-0.67	1.48/-1.94	2.022/56	3.362/72	-0.55/-0.95	0.97/-24	
Θ(105°)	2.062/09	2.530/20	-0.55/-1.33	-0.78/-1.99	-2.01/-5.71	-4.96/-2.04	-1.26/-2.18	-4.11/-3.45	-7.95/-4.66	-6.28/-3.22	-1.59/-0.54	-3.02/-0.76	-0.03/-1.48	-2.04/-2.24	-5.92/-6.53	-2.29/-0.39	1.77/-1.14	1.16/-1.15	1.040/58	0.382/-19	3.413/83	2.060/80	-1.48/-2.56	0.20/-1.9
Θ(112.5°)	1.650/91	1.45/-1.80	-1.57/-4.24	-4.80/-4.95	-2.88/-5.59	-8.52/-7.26	-5.99/-5.21	-4.02/-6.52	-10.21/-3.62	-0.48/-3.12	-0.34/-0.80	-4.15/-3.85	-1.28/-3.99	-3.30/-4.00	-6.60/-9.54	-4.160/-11	1.360/53	-1.36/-2.60	-0.75/-3.91	-3.44/-0.45	2.893/06	0.84/-2.20	-4.17/-3.22	-0.15/-0.87
Θ(120°)	0.79/-0.73	-1.82/-2.35	-2.27/-4.32	-3.43/-1.94	-5.66/-7.10	-4.59/-2.62	-1.77/-1.52	-3.07/-6.87	-5.63/-3.04	-3.05/-2.26	0.930/52	-2.97/-2.63	-3.22/-4.68	-4.64/-0.42	-5.51/-3.88	-4.29/-3.56	-3.66/-11.00	-7.38/-4.56	-3.66/-11.00	-7.76/-1.94	-0.53/-2.28	-7.16/-9.72	-7.49/-2.23	-2.44/-1.34
Θ(127.5°)	-1.90/-6.19	-3.13/-1.34	-1.48/-2.00	-5.73/-6.62	-6.62/-3.09	-1.66/-2.54	-4.36/-1.70	-7.35/-3.88	-3.20/-3.51	-4.62/-3.03	0.740/51	-4.31/-1.82	-3.15/-8.20	-6.30/-1.01	-2.92/-4.88	-5.18/-3.50	-1.88/-6.32	-5.45/-5.48	-7.57/-10.19	-6.96/-4.17	-13.27/-14.93	-1.01/-8.00	-5.64/-2.46	
Θ(135°)	-5.97/-6.99	-7.19/-6.49	-5.16/-7.25	-7.63/-4.76	-2.60/-3.48	-9.01/-15.31	-6.51/-2.83	-4.64/-7.13	-3.88/-0.02	-1.77/-4.05	0.31/-0.47	-3.35/-1.95	-1.26/-8.03	-5.57/-1.98	-5.40/-11.97	-6.89/-3.62	-2.38/-5.26	-6.99/-9.18	-4.57/-5.51	-8.51/-3.64	-6.06/-4.58	-12.34/-13.80	-10.37/-5.64	-4.93/-8.28
Θ(142.5°)	-5.17/-10.60	-1.85/-11.57	-12.24/-15.25	-13.48/-11.90	-8.29/-4.72	-9.07/-10.11	-8.61/-6.80	-13.24/-11.06	-4.36/-8.43	-5.90/-4.96	-1.88/-0.84	-6.18/-6.61	-4.75/-11.86	-6.40/-3.62	-6.18/-6.24	-6.16/-2.44	-4.00/-2.95	-6.29/-3.39	-5.07/-8.79	-7.31/-0.56	-8.48/-12.83	-7.90/-11.47	-4.74/-4.13	-7.06/-4.75
Θ(150°)	-6.27/-9.00	-11.45/-11.24	-10.68/-11.31	-11.44/-15.77	-13.22/-8.99	-6.85/-6.03	-5.89/-7.41	-9.35/-10.11	-1.88/-6.24	-7.31/-8.91	-7.99/-6.98	-5.97/-4.61	-7.67/-14.33	-4.81/-6.23	-7.75/-1.88	-7.17/-7.57	-7.21/-8.13	-7.83/-5.79	-3.96/-4.09	-7.86/-4.07	-10.83/-12.13	-10.98/-14.41	-11.91/-7.34	
Θ(157.5°)	-9.78/-7.35	-8.68/-10.02	-10.31/-10.64	-12.13/-12.01	-11.43/-11.59	-8.98/-6.74	-5.44/-6.62	-4.37/-4.12	-4.88/-5.47	-5.47/-6.75	-10.07/-11.10	-7.68/-5.76	-4.96/-7.29	-9.08/-10.98	-10.63/-6.54	-5.09/-4.26	-5.17/-6.73	-6.72/-6.36	-6.28/-6.40	-6.84/-9.25	-9.27/-8.34	-9.33/-9.63	-11.01/-10.93	-11.24/-12.88
Θ(165°)	-7.13/-1.78	-9.81/-10.72	-9.13/-8.27	-9.50/-10.82	-10.63/-11.00	-12.72/-15.13	-14.88/-12.82	-9.32/-6.69	-4.36/-2.81	-2.63/-3.86	-6.09/-3.60	-7.56/-5.46	-4.16/-3.84	-4.50/-3.50	-4.23/-3.44	-3.53/-0.45	-4.80/-6.21	-7.35/-8.11	-8.65/-9.95	-9.87/-10.02	-11.26/-11.85	-8.68/-7.21	-8.28/-14.74	-11.82/-8.50
Θ(172.5°)	-10.05/-7.79	-7.77/-7.29	-6.76/-8.85	-11.79/-12.98	-13.31/-13.74	-10.76/-10.26	-9.22/-8.16	-7.65/-7.58	-8.20/-9.74	-11.51/-12.22	-11.20/-8.78	-7.23/-6.08	-5.40/-5.02	-4.33/-4.18	-4.60/-5.41	-6.23/-6.84	-7.24/-7.71	-7.96/-7.93	-7.57/-8.00	-8.42/-9.36	-9.75/-9.40	-8.20/-9.29	-9.79/-11.56	
Θ(180°)	-8.73/-8.69	-9.16/-8.38	-7.54/-6.91	-6.21/-6.57	-7.44/-7.44	-7.62/-6.86	-6.82/-6.74	-6.90/-7.00	-6.90/-6.99	-7.20/-7.28	-7.30/-7.00	-6.89/-6.77	-6.75/-6.78	-6.69/-6.54	-6.18/-6.19	-6.54/-6.79	-6.60/-6.49	-6.50/-6.09	-5.87/-5.55	-5.69/-5.88	-8.20/-9.46	-8.96/-8.72	-9.20/-9.62	
Freq(Hz)	6.4750GPol.	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°)	-1.07/-0.89	-1.06/-1.06	-1.09/-1.03	-0.72/-0.56	-0.92/-0.96	-0.91/-0.86	-1.20/-1.16	-1.38/-1.58	-1.65/-1.90	-1.87/-2.23	-2.32/-2.11	-1.72/-1.33	-1.28/-1.27	-1.00/-0.73	-0.54/-0.43	-0.19/-0.26	-0.44/-0.70	-0.05/-0.58	-0.75/-1.03	-1.21/-1.37	-1.49/-1.71	-1.88/-2.01	-2.16/-2.33	-1.68/-1.19
Θ(7.5°)	-1.23/-1.09	-0.76/-0.49	-0.62/-0.88	-0.70/-7.3	-1.30/-2.30	-2.53/-2.53	-1.96/-1.64	-1.61/-2.04	-2.23/-2.74	-3.19/-3.33	-3.35/-3.60	-3.37/-2.99	-2.68/-2.62	-2.62/-2.51	-4.24/-2.23	-1.98/-1.79	-1.74/-1.88	-1.98/-2.28	-2.57/-2.82	-2.74/-2.44	-2.11/-2.02	-2.05/-2.12	-2.21/-1.98	-1.59/-1.31
Θ(15°)	-1.63/-1.27	-0.50/-0.40	-0.58/-1.08	-1.34/-1.29	-1.46/-2.00	-2.28/-2.75	-3.02/-3.50	-3.52/-3.71	-3.70/-3.56	-3.68/-4.28	-5.08/-5.98	-5.62/-5.02	-4.10/-3.47	-3.24/-3.64	-4.22/-4.70	-4.82/-4.64	-4.69/-4.61	-4.66/-4.70	-4.35/-4.03	-3.95/-4.25	-4.40/-4.57	-3.82/-2.68	-2.41/-1.96	
Θ(22.5°)	-1.46/-1.27	-1.14/-1.22	-1.45/-2.38	-2.55/-2.48	-2.65/-3.09	-3.46/-4.16	-4.52/-4.83	-4.86/-4.85	-4.91/-5.23	-5.42/-6.16	-6.87/-7.90	-7.48/-5.88	-4.83/-4.77	-5.39/-6.86	-9.05/-9.98	-7.83/-5.61	-3.99/-2.82	-1.92/-1.57	-1.20/-0.82	-1.18/-1.57	-2.52/-3.52	-4.60/-5.66	-4.24/-4.86	-4.21/-2.74
Θ(30°)	-1.80/-0.95	-1.18/-1.39	-1.29/-1.91	-2.34/-2.66	-3.51/-3.14	-2.78/-2.46	-3.10/-4.41	-6.11/-8.86	-10.85/-9.23	-6.98/-5.13	-4.60/-6.13	-8.73/-7.00	-5.43/-5.49	-4.63/-5.96	-8.48/-7.38	-4.98/-3.29	-2.05/-1.67	-1.47/-0.79	-0.52/-0.90	-1.61/-2.24	-2.51/-3.28	-4.58/-5.08	-5.10/-4.29	-3.34/-2.71
Θ(37.5°)	-1.21/-1.01	-0.38/-0.30	-0.27/-0.87	-1.84/-2.89	-2.88/-2.71	-2.93/-6.00	-5.39/-6.87	-8.04/-6.66	-9.55/-6.10	-9.41/-5.16	-3.54/-4.85	-6.46/-4.97	-2.93/-1.60	-2.50/-3.52	-7.05/-7.18	-7.60/-5.72	-5.52/-3.69	-2.82/-3.52	-3.38/-2.47	-2.14/-2.22	-2.33/-2.76	-3.12/-4.02	-4.17/-3.77	-2.34/-1.71
Θ(45°)	-0.04/-1.12	-0.610/-0.30	0.440/-0.27	-0.75/-0.36	-0.77/-1.70	-0.35/-4.40	-4.51/-5.22	-5.62/-5.44	-5.44/-5.04	-7.72/-7.61	-3.93/-3.07	-4.63/-5.06	-2.94/-0.57	-1.51/-4.11	-6.12/-6.30	-5.85/-4.70	-10.42/-9.76	-7.81/-5.86	-5.75/-6.67	-3.74/-2.17	-1.51/-1.60	-1.46/-1.10	-0.14/-1.79	-2.00/-0.11
Θ(52.5°)	0.49/-1.16	-1.210/0.35	0.090/0.32	0.30/-0.16	-0.94/-1.82	-2.85/-2.79	-2.63/-2.92	-3.49/-4.16	-3.09/-2.65	-4.14/-5.70	-5.73/-4.61	-3.79/-2.31	0.270/58	-0.52/-1.98	-2.31/-3.16	-5.67/-12.22	-10.09/-7.89	-6.92/-7.14	-5.22/-3.33	-0.880/-35	0.791/-07	0.690/83	0.47/-0.11	-1.03/-0.42
Θ(60°)	-1.10/-1.57	-0.750/91	0.220/35	-0.69/-0.02	0.760/-19	-0.51/-2.21	-3.30/-2.72	-2.49/-4.37	-7.28/-4.02	-2.06/-2.70	-4.64/-5.55	-5.41/-2.03	0.961/28	0.99/-0.03	0.35/-1.91	-4.30/-6.16	-4.96/-4.94	-4.43/-4.51	1.012/57	3.333/69	3.103/04	2.490/69	0.360/0.02	
Θ(67.5°)	-1.11/-0.37	1.421/57	-0.22/-2.11	-0.40/-0.60	0.90/-0.07	-1.95/-4.39	-5.30/-6.17	-7.32/-8.80	-10.11/-5.42	-2.93/-1.61	-2.08/-4.70	-1.70/-1.41	0.711/54	1.660/92	-0.27/-0.41	-3.66/-3.84	-6.22/-4.35	-5.32/-6.67	-5.12/-3.13	-0.722/23	3.423/78	2.963/57	3.201/-14	-0.57/-0.43
Θ(75°)	-1.300/63	1.330/67	-1.36/-3.52	-4.750/43	1.641/-47	0.69/-2.13	-5.57/-10.46	-9.05/-7.01	-6.55/-5.52	-4.24/-3.54	-2.11/-3.40	-4.72/-0.88	0.891/57	1.22/-0.73	-1.34/-0.59	-3.55/-2.47	-4.27/-2.68	-4.18/-2.54	-2.14/-0.34	1.382/08	2.482/40	2.683/18	3.952/69	0.25/-0.39
Θ(82.5°)	0.640/66	2.002/07	-1.98/-5.51	-0.292/83	2.320/68	0.090/43	-0.30/-2.60	-7.44/-8.66	-3															



Antenna Pattern of 6GHz

Appendix B.2

Θ(67.5°)	0.41/-0.45	-1.56/-3.30	-5.58/-3.39	-0.69/-0.70	-3.26/-4.18	-1.94/-0.84	0.11/0.83	1.45/2.65	3.44/3.45	2.48/1.26	-0.05/-1.83	-2.62/-2.66	-1.40/-1.15	-1.82/0.95	0.74/-0.10	-0.77/0.97	0.27/-1.61	-3.62/-5.95	-9.13/-6.97	-3.99/-3.00	-2.01/-0.73	0.07/-0.72	-0.14/-2.13	2.21/1.65
Θ(75°)	1.00/-0.03	0.46/-0.13	-2.29/-3.17	-0.92/-0.21	-1.96/-6.75	-3.19/-0.60	0.48/1.14	1.98/2.72	2.89/3.28	3.08/2.54	0.76/-1.92	-2.94/-1.19	-0.16/-0.59	-2.71/-0.02	0.40/-0.85	-0.52/0.35	-0.52/-2.52	-4.08/-6.65	-9.66/-8.06	-6.26/-8.42	-2.78/-0.38	0.40/-0.56	-1.41/0.84	2.05/2.21
Θ(82.5°)	2.77/1.80	0.76/-0.44	-1.96/-1.84	0.90/2.90	1.64/-0.99	0.00/0.94	1.76/2.85	3.11/2.82	2.83/3.25	3.46/2.86	0.41/-2.07	-3.60/-1.23	-0.57/-2.01	-2.62/1.01	1.71/-0.23	1.12/1.12	-0.50/-3.64	-4.75/-8.72	-8.09/-10.35	-6.58/-4.38	-3.24/-0.76	0.83/-0.73	-0.83/-0.96	1.10/2.40
Θ(90°)	3.09/3.09	0.51/-2.34	-1.65/-0.84	0.85/1.63	0.83/0.10	1.00/1.54	1.90/2.53	2.39/2.19	2.68/3.02	2.96/3.14	1.89/-0.95	-4.62/-4.00	-2.34/-0.98	-0.24/1.11	0.48/-2.64	-1.27/1.03	-0.62/-2.50	-1.21/-3.25	-3.43/-6.87	-6.52/-5.28	-3.65/-2.20	-0.86/-1.50	-0.29/1.10	2.32/1.44
Θ(97.5°)	1.98/2.28	0.03/-0.42	-4.43/-6.09	2.47/2.46	2.39/1.11	0.42/1.08	1.89/3.10	3.06/4.01	4.09/3.02	0.57/-3.11	-4.73/-2.32	-1.64/-3.02	-3.92/0.70	0.99/0.40	1.07/1.93	0.59/0.66	-0.61/-4.03	0.59/0.66	-1.54/-6.40	-8.89/-6.68	-5.17/-1.28	0.26/0.04	0.88/2.73	3.47/2.75
Θ(105°)	1.86/0.78	-3.65/-11.29	-13.16/-2.07	2.69/3.45	3.72/2.51	0.83/0.33	0.83/1.27	1.70/4.7	3.89/4.71	4.05/1.83	-2.20/-5.16	-3.48/-1.43	-2.82/-5.04	-1.85/0.56	1.37/-1.49	-1.00/1.31	0.88/0.71	1.81/1.63	-2.18/-4.19	-3.82/-7.55	-7.68/0.62	1.24/2.07	1.19/2.79	3.71/1.92
Θ(112.5°)	-0.19/-1.73	-7.59/-13.47	-9.08/-3.93	0.26/2.11	1.50/1.56	0.68/-1.87	-3.16/-1.06	2.39/2.63	3.49/2.78	0.92/-1.24	-1.61/-4.49	-5.15/-2.13	-2.01/-4.46	-1.64/-1.70	-2.22/-2.55	-2.82/-1.18	-1.53/-0.08	1.75/0.78	1.37/-0.26	-2.16/-7.79	-11.81/-2.81	-1.72/-3.32	1.20/2.37	2.17/0.80
Θ(120°)	-2.95/-4.71	-7.76/-11.21	-6.19/-1.74	-4.41/-1.30	-1.34/-1.25	-1.49/-3.38	-4.71/-3.36	-1.33/0.60	2.22/1.49	0.16/-2.43	-6.20/-6.59	-5.24/-3.62	-2.50/-3.39	-1.94/-0.35	-3.03/-3.29	-3.46/-6.76	-4.36/-4.44	-0.32/-1.99	-1.96/-6.90	-0.19/-2.20	-7.27/-3.93	-2.67/-0.62	-2.40/-0.93	0.22/-1.33
Θ(127.5°)	-12.68/-11.27	-15.34/-7.25	-3.01/-2.99	-2.18/0.11	0.27/0.86	0.06/-1.72	-2.76/-2.16	-0.79/-0.69	-0.97/-0.31	-0.69/-1.40	-3.61/-10.57	-5.69/-2.88	-2.39/-3.72	-7.12/-3.16	-3.81/-0.53	-6.25/-10.48	-3.18/-3.79	-4.42/-2.60	-5.93/-5.36	0.12/-5.62	-3.70/-7.75	-3.62/-4.20	-2.58/-0.94	0.06/-2.94
Θ(135°)	-7.56/-15.11	-13.93/-6.66	-3.68/-4.64	-7.64/-7.41	-5.86/-6.55	-6.29/-5.25	-5.52/-7.00	-6.10/-4.52	-4.07/-5.06	-6.88/-7.12	-7.83/-7.33	-5.61/-4.25	-7.45/-5.29	-0.47/0.04	-1.15/-0.69	-5.03/-10.35	-6.74/-3.70	-10.03/-6.39	-14.18/-9.59	-1.34/-1.07	-8.45/-3.75	-4.29/-6.14	-2.98/-0.75	1.47/-1.42
Θ(142.5°)	-12.86/-13.66	-8.80/-6.42	-3.45/-2.83	-3.45/-3.82	-4.63/-7.90	-12.43/-12.63	-9.92/-9.73	-6.29/-3.88	-4.10/-4.92	-4.87/-0.72	-6.27/-4.57	-4.31/-6.39	-7.85/-10.76	-5.81/-6.19	-7.32/-5.95	-4.98/-3.78	-4.00/-4.46	-10.83/-6.75	-7.20/-4.19	-7.09/-2.23	-6.83/-7.66	-4.79/-3.81	-2.47/-2.53	-2.62/-8.69
Θ(150°)	-12.03/-10.95	-9.34/-7.15	-3.06/-1.75	-3.26/-1.70	-12.64/-10.96	-7.47/-5.31	-3.69/-2.78	-2.48/-2.73	-3.99/-6.72	-9.66/-6.92	-4.92/-3.49	-8.27/-1.01	-5.32/-6.44	-10.44/-13.83	-15.07/-12.15	-9.10/-3.60	-7.87/-10.54	-8.66/-7.99	-7.05/-6.74	-6.26/-6.69	-11.64/-8.16	-5.20/-2.43	-4.26/-9.06	
Θ(157.5°)	-5.93/-7.66	-10.73/-14.58	-11.59/-6.95	-6.28/-6.60	-6.00/-6.04	-5.55/-5.30	-5.41/-5.97	-9.03/-15.00	-12.38/-9.55	-7.54/-5.56	-5.93/-7.80	-7.86/-8.92	-7.93/-3.07	-1.90/-3.38	-2.85/-2.01	-3.52/-5.49	-5.11/-5.08	-6.95/-9.51	-10.48/-10.62	-8.55/-5.39	-3.37/-3.85	-6.68/-5.68	-2.99/-1.41	-1.04/-2.88
Θ(165°)	-11.47/-9.99	-8.23/-1.79	-7.78/-9.64	-1.64/-11.89	-11.57/-8.93	-8.19/-7.24	-6.78/-6.83	-5.05/-5.13	-5.71/-5.66	-4.84/-4.72	-5.70/-6.39	-5.71/-5.11	-4.29/-3.75	-3.51/-3.90	-5.12/-7.84	-10.70/-8.37	-5.83/-5.82	-7.81/-12.39	-15.93/-15.23	-13.36/-9.19	-6.65/-6.67	-4.04/-3.54	-2.65/-2.31	-4.89/-7.85
Θ(172.5°)	-9.12/-12.16	-9.83/-8.75	-9.12/-9.25	-8.39/-6.93	-6.11/-5.59	-6.13/-7.92	-3.36/-3.11	-3.21/-3.79	-4.34/-5.02	-5.43/-5.52	-5.45/-5.20	-4.73/-4.97	-5.94/-7.76	-9.67/-11.24	-11.53/-9.51	-7.62/-6.59	-5.68/-5.68	-5.53/-6.20	-6.73/-6.89	-6.06/-6.55	-6.86/-7.41	-8.67/-9.08	-8.34/-9.13	-12.02/-12.54
Θ(180°)	-9.57/-9.85	-9.30/-9.45	-8.59/-8.57	-9.11/-8.52	-7.87/-7.75	-6.96/-5.85	-5.79/-6.18	-6.81/-7.19	-7.28/-7.40	-7.86/-8.24	-7.95/-7.72	-8.00/-8.87	-10.59/-12.47	-13.29/-15.50	-16.02/-14.67	-13.77/-13.85	-13.63/-13.03	-12.65/-12.11	-10.98/-9.90	-9.90/-10.67	-10.87/-11.32	-10.63/-10.43	-10.15/-8.92	-8.01/-8.79
Freq(Hz)	6.475/GPol.	Total/Ant.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°)	-14.38/-14.33	-15.77/-15.38	-14.89/-14.93	-15.19/-14.02	-13.05/-13.40	-14.12/-15.62	-15.66/-13.79	-11.93/-11.84	-11.93/-12.39	-12.24/-12.49	-12.08/-11.40	-11.70/-11.92	-12.95/-15.04	-14.97/-14.54	-13.46/-13.34	-13.99/-14.45	-14.29/-13.48	-12.60/-12.18	-11.92/-13.60	-15.24/-15.68	-15.00/-14.09	-14.62/-15.45	-15.60/-15.36	-15.11/-15.30
Θ(7.5°)	-13.30/-14.24	-13.01/-12.35	-11.44/-12.35	-11.64/-11.19	-11.59/-14.11	-15.37/-15.43	-15.55/-14.80	-15.12/-14.88	-15.28/-15.15	-14.42/-15.27	-16.06/-14.79	-15.45/-15.32	-12.55/-11.51	-10.33/-10.22	-9.77/-8.69	-8.54/-8.08	-7.08/-6.01	-5.07/-4.17	-3.70/-3.60	-4.14/-5.51	-7.74/-7.72	-7.47/-7.72	-8.38/-9.78	-12.65/-12.94
Θ(15°)	-9.86/-9.54	-10.92/-12.55	-11.15/-9.36	-7.59/-4.70	-8.19/-10.37	-11.53/-11.45	-10.65/-9.21	-8.76/-9.67	-9.59/-9.55	-9.78/-10.87	-10.89/-5.00	-7.43/-6.66	-6.55/-6.84	-8.01/-8.15	-7.54/-7.31	-6.50/-5.48	-4.32/-3.43	-2.85/-2.36	-1.93/-1.49	-1.45/-1.68	-1.74/-2.01	-2.44/-3.33	-3.54/-4.59	-7.05/-8.32
Θ(22.5°)	-7.20/-7.41	-9.23/-11.53	-9.65/-8.23	-6.36/-5.16	-5.72/-6.30	-7.23/-7.53	-5.20/-3.72	-4.09/-5.37	-5.68/-5.13	-5.13/-6.10	-6.55/-6.01	-4.96/-4.18	-4.17/-5.69	-8.77/-10.24	-8.11/-6.38	-4.94/-3.74	-3.70/-4.87	-6.08/-6.34	-5.93/-5.49	-5.40/-5.43	-5.69/-5.23	-3.87/-3.37	-3.52/-5.07	-7.16/-6.96
Θ(30°)	-3.85/-3.98	-6.46/-7.95	-7.78/-9.64	-1.77/-5.23	-3.51/-3.19	-2.95/-2.44	-2.92/-2.90	-4.11/-5.29	-5.90/-5.27	-3.68/-2.67	-2.41/-3.88	-5.81/-3.68	-1.45/-0.86	-1.21/-1.65	-2.48/-2.96	-3.12/-4.25	-6.52/-8.79	-6.48/-7.07	-9.72/-12.58	-15.27/-15.42	-11.88/-9.56	-7.31/-6.27	-6.54/-5.39	
Θ(37.5°)	-2.10/-2.65	-6.88/-10.13	-7.83/-6.14	-4.13/-3.98	-3.66/-4.32	-5.44/-6.92	-7.66/-7.27	-5.53/-4.29	-4.40/-5.07	-4.81/-3.66	-4.10/-6.03	-7.39/-2.81	-0.36/-0.05	-0.92/-3.44	-3.14/-2.33	-2.00/-2.82	-4.48/-3.90	-2.41/-2.14	-3.04/-3.86	-4.85/-4.66	-5.44/-6.48	-7.22/-6.33	-4.38/-6.16	-10.90/-5.57
Θ(45°)	0.23/-0.24	-4.05/-7.64	-9.79/-11.34	-10.94/-9.46	-7.66/-6.29	-5.60/-5.70	-5.21/-4.08	-2.44/-1.78	-1.58/-1.55	-2.78/-2.62	-3.56/-4.19	-5.52/-3.77	-1.28/0.88	0.44/0.43	0.76/1.25	1.31/-0.82	-0.95/-2.22	-0.79/-1.52	-2.99/-3.73	-5.08/-4.58	-3.57/-1.21	-1.46/-2.83	-5.08/-1.47	
Θ(52.5°)	2.32/0.77	-4.48/-7.50	-8.13/-10.89	-11.14/-10.80	-4.93/-1.14	-0.07/-0.27	1.68/2.11	1.61/0.57	-1.54/-3.26	-4.27/-4.92	-5.43/-4.50	-2.42/-0.64	-0.54/0.34	1.88/2.68	0.63/-0.49	0.56/0.34	-1.09/-0.74	-1.50/-2.95	-3.20/-2.66	-1.93/-0.37	-1.63/-0.57	-1.43/-0.18	-1.68/-0.85	
Θ(60°)	1.35/0.13	-5.37/-9.92	-11.14/-10.58	-6.47/-5.13	-3.76/-2.15	-1.53/-0.83	-0.37/0.40	1.32/2.09	2.88/2.79	1.13/-0.52	-1.72/-3.78	-5.68/-6.68	-2.89/-0.67	1.37/1.83	2.29/0.52	-3.07/-0.80	0.88/0.74	-1.03/-1.66	-3.28/-3.57	-2.89/-4.73	-4.28/-2.96	-1.50/0.04	1.77/2.92	0.83/-0.89
Θ(67.5°)	1.25/0.19	-2.23/-4.56	-8.23/-4.51	-3.10/-4.78	-6.15/-4.71	-2.08/-1.50	-0.76/-0.36	0.50/-1.98	3.31/3.80	2.71/0.32	-0.98/-3.36	-6.08/-6.40	-1.76/0.86	0.90/0.74	0.79/-1.07	0.67/2.48	2.98/1.53	-0.07/-0.88	-2.97/-6.13	-5.08/-4.62	-4.67/-3.39	-1.29/-1.02	0.59/2.50	0.81/-0.49
Θ(75°)	1.47/0.43	-1.28/-3.72	-5.07/-4.13	-3.23/-4.49	-6.58/-3.99	-2.96/-2.73	-1.25/0.07	1.39/-1.66	2.78/2.86	2.37/0.89	0.48/-1.59	-4.46/-6.62	-3.17/-0.22	0.48/0.83	-0.40/-0.72	1.11/-1.87	0.66/-1.90	-2.89/-1.61	-2.42/-5.46	-5.95/-7.27	-7.76/-7.72	-4.97/-1.09	1.26/-1.62	-1.46/-0.02
Θ(82.5°)	1.80/-1.49	0.50/-0.89	-3.43/-5.85	-4.41/-2.44	-2.51/-2.17	-1.75/-1.59	-1.73/-0.39	0.61/-1.11	1.60/2.65	2.79/-1.50	-0.13/-2.40	-4.16/-8.97	-3.77/0.05	-2.09/-1.29	-0.67/-2.08	-0.60/-1.79	-0.24/-2.55	-1.72/-0.11	-2.17/-5.01	-8.25/-8.62	-7.92/-9.61	-6.47/-3.14	-0.17/0.17	-2.43/-0.28
Θ(90°)	4.18/-2.79	0.71/-1.13	-4.56/-4.79	-3.04/-0.77	1.93/2.13	0.84/0.70	0.47/0.98	2.00/2.68	3.06/3.14	3.44/-1.71	-0.69/-4.69	-7.17/-8.67	-4.98/-2.22	-4.84/-1.63	0.12/0.36	-0.32/-1.11	-0.79/-2.26	-0.82/-1.47	-2.25/-5.17	-6.40/-4.97	-7.69/-8.19	-2.71/-2.61	-0.43/-1.85	-1.18/2.20
Θ(97.5°)	4.19/2.61	-0.70/-1.60	-3.62/-6.79	-3.03/0.24	0.88/2.01	1.52/0.02	0.42/2.30	4.33/3.68	3.68/2.67	1.62/0.84	-0.02/-2.46	-6.62/-11.90	-2.84/-1.51	-4.21/-3.09	-1.81/-3.13	-1.79/2.33	0.13/-0.22	2.02/2.28	-1.85/-3.25	-8.51/-3.13	-4.57/-6.57	-5.66/-2.25	1.96/2.44	0.05/-1.49
Θ(105°)	2.84/-1.57	-1.34/-2.50	-5.87/-13.48	-5.37/-1.25	0.70/0.93	0.96/-0.64	-0.70/-0.97	4.00/4.23	4.51/4.27	2.66/-1.34	-1.74/-2.79	-6.63/-6.61	-2.58/-0.76	-9.08/-6.15	-1.50/-1.46	-0.34/-1.90	0.03/-0.06	3.55/3.00	1.77/-2.64	-7.71/-6.71	-5.33/-3.95	-2.26/-0.98	1.43/2.57	1.83/1.76
Θ(112.5°)	0.22/-2.81	-10.82/-6.92	-6.69/-12.02	-2.74/0.11	2.47/1.61	0.16/-1.08	-1.86/-0.50	-0.17/-2.34	3.29/3.66	2.13/-0.07	-2.76/-5.88	-7.37/-6.15	-3.24/-0.45	-3.55/-5.22	0.09/-2.36	-3.45/-4.47	-5.95/-4.04	3.58/2.60	2.15/-1.61	-5.12/-3.80	-6.97/-5.02	-1.98/-2.07	1.54/0.37	0.82/0.62
Θ(120°)	-1.61/-1.90	-7.23/-11.50	-5.39/-12.05	-6.01/-1.16	0.26/1.43	-0.30/-2.18	-7.60/-4.30	-0.63/-1.11	2.02/1.94	-0.24/-4.95	-5.05/-8.04	-5.64/-4.09	-1.93/-0.75	-2.14/-6.56	-1.05/-10.45	-3.93/-1.73								



Antenna Pattern of 6GHz

Appendix B.2

Θ(112.5°)	3.16/2.51	0.81/0.10	0.66/0.94	1.49/0.62	0.62/-0.18	-1.33/-2.46	-2.31/-3.72	-1.32/-0.27	-1.39/-1.67	-0.84/-1.70	-0.90/-4.20	-3.89/-1.56	-6.16/-9.96	-12.56/-15.44	-10.12/-3.72	-10.50/-11.03	-2.84/-3.34	-1.80/-1.21	-3.91/-6.25	-1.99/-6.97	-6.48/-1.17	0.41/-0.30	-0.55/-2.46	1.60/-1.57
Θ(120°)	0.27/1.56	1.21/0.36	-0.56/-0.74	-0.39/-0.84	-1.22/-1.59	-2.45/-3.17	-4.63/-3.74	-1.80/-1.81	-3.18/-3.05	-3.79/-3.80	-3.59/-8.22	-4.14/-4.65	-9.20/-9.03	-14.17/-12.07	-14.14/-5.60	-5.54/-14.18	-7.90/-3.87	-12.93/-2.61	-3.49/-3.05	-0.56/-2.08	-5.43/-5.31	-1.03/-1.84	-1.03/-0.76	0.87/-0.19
Θ(127.5°)	2.49/-1.93	0.19/0.17	0.05/-0.92	-2.29/-3.13	-3.86/-4.52	-4.14/-3.83	-3.45/-2.69	-2.88/-2.95	-2.20/-2.92	-3.65/-2.95	-4.28/-6.30	-4.03/-4.49	-6.41/-9.64	-7.72/-7.37	-7.61/-11.89	-9.49/-7.39	-8.77/-8.14	-2.70/-8.06	-15.13/-5.97	-2.16/-3.23	-4.39/-1.60	0.02/-1.93	-1.35/0.79	2.42/-6.5
Θ(135°)	1.72/0.37	-0.84/-1.51	-2.81/-4.27	-4.52/-3.66	-3.86/-3.18	-2.74/-2.33	-1.41/-1.33	-1.91/-1.51	-1.03/-1.63	-3.43/-4.50	-4.97/-6.72	-9.90/-8.97	-9.49/-10.38	-8.54/-13.80	-15.18/-4.96	-4.24/-5.66	-8.52/-5.85	-3.58/-6.88	-7.54/-7.36	-7.51/-6.45	-7.48/-3.02	0.00/-0.74	-1.53/-1.51	-0.36/0.17
Θ(142.5°)	0.31/-0.00	-0.15/-1.65	-2.71/-4.18	-5.63/-5.15	-3.61/-3.34	-2.91/-2.00	-2.26/-2.88	-2.85/-3.00	-4.28/-6.10	-5.87/-5.18	-7.76/-10.99	-11.26/-8.81	-8.66/-9.23	-9.78/-12.42	-8.97/-9.76	-11.04/-10.87	-8.07/-3.60	-9.56/-15.12	-15.78/-13.03	-11.85/-6.22	-2.50/-2.47	-1.89/-3.36	-2.16/-4.11	-2.80/-1.85
Θ(150°)	-4.13/-4.48	-5.52/-5.53	-5.26/-3.83	-4.14/-3.93	-3.00/-2.43	-2.95/-4.95	-6.60/-6.30	-6.30/-6.79	-6.00/-4.51	-4.56/-6.28	-10.23/-8.56	-7.86/-6.93	-8.96/-9.78	-5.43/-5.95	-10.41/-16.12	-15.59/-10.79	-4.69/-4.59	-10.46/-10.89	-10.79/-8.24	-6.91/-4.88	-2.11/-3.60	-5.23/-4.71	-4.53/-3.63	-1.95/-2.13
Θ(157.5°)	-9.12/-6.74	-5.43/-5.23	-5.84/-6.71	-6.54/-6.67	-7.61/-9.45	-10.61/-11.78	-9.59/-7.78	-7.58/-8.37	-7.56/-5.89	-6.18/-7.67	-8.01/-6.93	-6.43/-7.15	-8.86/-10.87	-13.67/-15.48	-14.48/-13.05	-12.31/-8.54	-5.62/-6.55	-8.94/-10.99	-13.18/-10.58	-8.87/-6.13	-4.27/-4.04	-3.70/-4.24	-6.45/-8.45	-9.59/-10.43
Θ(165°)	-10.75/-10.35	-10.74/-9.67	-8.69/-7.85	-6.49/-5.76	-5.95/-6.82	-7.35/-6.71	-6.15/-5.65	-5.91/-6.38	-6.61/-6.20	-5.76/-5.89	-7.30/-9.26	-9.34/-8.55	-9.34/-13.13	-15.98/-14.84	-11.97/-11.09	-11.72/-11.53	-9.89/-8.59	-9.04/-9.41	-10.35/-10.29	-8.47/-7.96	-8.01/-7.63	-6.76/-7.86	-10.59/-13.19	-11.87/-11.06
Θ(172.5°)	-7.26/-7.99	-8.49/-8.65	-8.75/-8.49	-8.07/-8.63	-7.91/-6.43	-5.29/-5.93	-7.20/-6.89	-5.28/-4.64	-5.44/-6.36	-6.51/-6.40	-6.71/-7.16	-8.08/-10.04	-12.52/-15.09	-14.12/-12.15	-10.60/-10.70	-12.66/-13.39	-11.99/-10.45	-9.98/-9.64	-8.60/-7.16	-6.62/-6.61	-7.27/-7.05	-5.90/-5.17	-5.28/-5.61	-5.75/-6.20
Θ(180°)	-7.63/-7.29	-6.97/-7.20	-7.37/-7.93	-8.55/-8.13	-7.06/-5.70	-5.38/-5.34	-5.19/-5.21	-5.33/-5.05	-5.10/-5.33	-5.45/-5.60	-5.83/-6.46	-7.09/-7.49	-7.74/-8.10	-8.86/-9.82	-11.20/-11.57	-10.09/-8.49	-7.51/-7.16	-6.64/-6.28	-6.31/-6.56	-6.52/-6.17	-6.17/-6.33	-7.04/-7.88	-7.51/-7.04	-6.92/-7.41
Freq(Hz)	6.475GPol.	TotalAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-6.52/-6.11	-5.07/-4.81	-5.08/-5.55	-5.52/-5.97	-6.17/-6.46	-5.65/-4.45	-4.14/-4.33	-4.84/-4.21	-4.28/-4.58	-4.94/-4.71	-4.21/-3.80	-3.59/-4.04	-4.59/-5.34	-5.38/-4.96	-5.14/-5.11	-5.22/-6.11	-7.03/-6.84	-6.21/-6.46	-7.13/-6.88	-6.52/-6.20	-5.49/-5.24	-5.80/-6.40	-6.32/-5.97	-6.21/-6.65
Θ(7.5°)	-6.71/-7.23	-7.11/-7.70	-9.07/-8.80	-7.90/-7.60	-8.19/-8.68	-8.16/-8.47	-8.63/-6.56	-8.42/-8.41	-8.51/-7.77	-6.84/-6.94	-6.35/-5.40	-4.77/-4.75	-5.19/-5.56	-4.99/-4.69	-5.25/-6.16	-5.84/-4.88	-4.00/-4.07	-4.17/-4.06	-3.79/-3.64	-3.28/-3.23	-3.41/-3.20	-3.07/-3.74	-4.13/-4.40	-5.03/-5.80
Θ(15°)	-5.01/-6.58	-7.14/-1.17	-6.86/-6.00	-5.38/-5.62	-5.73/-5.54	-6.22/-7.10	-6.71/-6.46	-7.05/-6.89	-7.65/-8.95	-8.75/-7.91	-7.66/-6.97	-6.13/-6.82	-8.27/-7.61	-5.77/-5.88	-7.02/-6.87	-6.27/-6.34	-8.52/-10.49	-9.80/-8.52	-8.56/-8.83	-8.10/-7.24	-6.91/-6.54	-5.23/-4.95	-4.76/-5.09	-5.04/-4.43
Θ(22.5°)	-5.16/-5.57	-5.92/-5.19	-4.53/-4.29	-4.86/-6.17	-6.01/-5.64	-6.55/-7.00	-5.31/-4.43	-4.60/-4.06	-3.63/-3.32	-3.72/-4.65	-6.62/-7.33	-6.09/-6.14	-6.62/-5.11	-4.79/-7.18	-9.25/-7.63	-5.99/-4.61	-3.25/-2.32	-1.93/-1.86	-2.18/-2.73	-3.46/-4.08	-3.96/-3.64	-4.28/-5.67	-5.06/-4.27	-4.58/-4.62
Θ(30°)	-3.32/-3.76	-4.24/-4.02	-4.23/-4.34	-4.50/-4.76	-3.70/-3.83	-4.53/-4.22	-2.36/-1.12	-0.84/-0.98	-0.96/-0.51	-0.51/-1.29	-2.98/-4.86	-3.71/-3.49	-4.91/-4.92	-7.13/-13.13	-10.77/-7.29	-4.76/-4.19	-4.55/-6.41	-3.97/-3.96	-4.49/-4.66	-4.31/-4.85	-4.98/-4.55	-4.10/-3.70	-3.53/-3.06	-2.60/-2.43
Θ(37.5°)	-0.58/-1.59	-2.83/-4.05	-4.30/-3.99	-4.01/-3.15	-2.61/-2.94	-3.22/-2.47	-0.87/0.08	0.22/-0.51	-0.57/-0.25	-0.53/-0.70	-1.62/-3.05	-3.62/-5.01	-5.52/-3.16	-3.95/-5.87	-7.07/-5.89	-7.96/-10.40	-4.77/-2.03	-1.46/-1.76	-3.58/-5.42	-5.23/-4.47	-3.71/-3.47	-3.00/-3.20	-3.15/-3.01	-1.51/-0.78
Θ(45°)	-0.53/-1.50	-1.17/-1.89	-3.40/-3.78	-2.82/-2.76	-2.74/-2.26	-1.52/-2.46	-2.34/-1.66	-0.81/-0.70	-1.05/-1.43	-1.39/-0.54	-1.12/-2.77	-2.32/-3.22	-3.34/-4.23	-4.16/-5.66	-7.03/-8.51	-10.62/-6.89	-3.95/-3.34	-5.04/-5.31	-3.30/-2.79	-3.72/-4.58	-3.28/-2.65	-2.87/-1.62	-1.79/-3.36	-2.42/-1.29
Θ(52.5°)	-0.64/-2.25	-1.89/-3.17	-6.06/-4.22	-4.02/-3.58	-3.02/-1.83	-1.47/-1.40	-1.65/-2.13	-0.60/-0.51	-0.58/-0.83	-1.52/-1.13	-1.18/-1.66	-1.19/-1.73	-3.19/-5.38	-3.19/-5.06	-7.67/-6.73	-7.14/-6.81	-6.84/-8.91	-5.43/-4.29	-2.96/-2.32	-2.42/-0.84	-1.04/-1.64	-0.60/-1.46	-1.30/-1.47	-4.79/-1.74
Θ(60°)	0.05/-1.42	-1.39/-2.39	-4.70/-3.68	-2.24/-1.83	-1.85/-0.98	-0.35/-0.88	-1.28/-1.42	-0.99/-0.15	0.17/0.12	0.32/0.33	-0.19/-0.06	0.21/-0.30	-3.78/-4.02	-3.18/-5.65	-4.56/-3.82	-6.82/-11.52	-6.82/-4.92	-6.05/-5.38	-3.15/-1.19	0.39/0.19	-0.87/-0.72	-1.12/-0.09	-1.53/-1.54	
Θ(67.5°)	1.04/-1.34	-1.41/-1.55	-3.85/-2.54	-1.29/0.19	0.31/0.33	-0.34/-1.45	-3.17/-2.96	-1.06/-0.19	0.24/0.06	2.02/0.92	1.94/1.56	0.35/0.36	-3.72/-5.63	-4.49/-7.56	-5.07/-2.36	-5.22/-4.89	-7.94/-9.33	-4.45/-2.13	-1.45/-1.69	-2.89/-3.13	-0.41/-1.29	-0.18/-0.76	-0.19/0.57	0.43/0.50
Θ(75°)	1.51/-0.41	-0.72/-1.33	-2.73/-1.13	-0.42/0.16	-0.06/-0.12	-0.82/-1.53	-2.26/-2.88	-1.59/0.77	2.24/2.21	2.23/1.72	2.17/2.14	0.96/0.57	-3.67/-6.09	-7.82/-11.48	-5.87/-3.81	-3.77/-2.74	-6.05/-4.42	-4.22/-4.12	-2.98/-2.82	-4.40/-4.30	-0.34/2.18	0.62/1.98	1.48/2.85	1.82/0.39
Θ(82.5°)	2.39/0.54	0.25/-0.87	-0.22/0.30	0.74/1.14	1.30/1.16	0.45/1.10	-1.10/-1.90	-0.35/1.00	1.99/1.70	2.44/2.10	2.38/3.00	0.30/0.32	-3.31/-4.50	-4.05/-6.78	-8.17/-2.75	-3.52/-3.44	-5.70/-8.12	-5.67/-4.23	-5.01/-4.27	-3.32/-5.27	-1.09/-0.39	0.452/0.79	2.72/3.76	2.952/0.00
Θ(90°)	1.98/-0.49	-1.75/-2.26	-0.91/0.39	0.27/0.72	0.96/0.24	-1.07/0.40	-1.59/-0.35	0.42/0.65	1.69/2.29	2.52/1.05	1.67/1.97	-0.24/-0.23	-4.11/-6.34	-9.64/-7.94	-7.18/-2.49	-4.47/-5.37	-5.66/-6.85	0.44/-1.41	-6.11/-2.66	0.23/-6.67	-1.64/0.56	-0.01/2.18	2.37/4.47	2.31/1.56
Θ(97.5°)	2.50/0.51	0.40/-0.25	-0.37/-1.49	0.38/-0.33	-0.22/-0.38	-2.15/-2.00	-1.33/0.03	0.10/1.01	1.77/1.63	1.41/-0.01	0.15/1.51	-1.34/-2.60	-6.20/-6.14	-6.23/-6.77	-5.60/-5.07	-7.77/-9.13	-2.44/-2.10	4.42/4.03	-1.74/-4.64	0.64/-3.38	-0.58/0.35	-1.16/2.76	2.31/-5.71	3.82/0.60
Θ(105°)	2.29/0.74	0.73/-0.35	-0.84/-1.81	0.50/1.11	-1.11/0.07	0.00/-2.23	0.62/0.63	-0.35/-1.59	1.45/1.17	1.11/-0.42	-0.42/-0.89	-0.62/-0.54	-5.05/-6.15	-7.17/-7.77	-7.95/-2.51	-8.90/-3.43	-0.37/-2.50	2.66/0.83	-9.39/-4.78	1.11/9.11	-1.41/0.68	-1.90/0.51	0.44/0.09	1.14/1.30
Θ(112.5°)	4.07/2.31	1.42/1.95	1.13/1.74	1.33/0.74	1.30/0.74	-1.59/-3.64	-2.96/-1.54	-2.26/-2.15	-0.92/0.50	0.32/0.09	-1.08/-1.61	-2.54/-2.26	-3.82/-2.54	-4.29/-7.45	-8.11/-10.08	-11.19/-6.21	-10.60/-4.65	-1.56/-5.67	-2.18/-2.35	-3.93/-5.52	-4.83/-10.71	-1.72/-0.62	0.82/-0.41	0.34/3.35
Θ(120°)	1.21/0.97	0.46/-0.46	-1.98/-0.08	0.89/-0.80	-0.95/-2.79	-2.78/-2.45	-2.08/-1.05	-0.06/-0.32	0.05/-0.80	-1.52/-3.61	-3.04/-5.52	-4.83/-4.83	-7.63/-9.82	-12.16/-9.68	-12.93/-4.70	-7.22/-12.36	-5.32/-5.80	-8.32/-2.95	-4.42/-3.69	-4.35/-6.90	-9.03/-4.41	-0.86/-2.14	0.52/0.61	1.25/1.34
Θ(127.5°)	1.41/-0.04	-1.76/-1.78	-2.11/-1.86	-2.35/-2.06	-3.38/-4.64	-4.91/-4.72	-4.01/-4.05	-3.52/-2.20	-1.83/-2.30	-4.40/-4.78	-3.68/-6.31	-6.09/-4.07	-7.65/-12.18	-6.94/-7.35	-11.26/-9.07	-5.85/-5.54	-10.09/-10.30	-6.31/-6.44	-12.83/-5.57	-3.74/-4.11	-3.40/-2.29	-1.57/-3.84	0.49/0.42	2.19/1.30
Θ(135°)	1.64/-0.49	-1.68/-2.16	-4.20/-3.69	-2.15/-3.31	-4.15/-4.04	-3.22/-2.48	-2.31/-2.49	-2.52/-2.88	-3.52/-4.45	-4.98/-6.80	-7.71/-7.00	-8.48/-7.27	-7.54/-12.56	-8.19/-9.88	-13.10/-8.49	-4.60/-4.14	-10.11/-8.22	-2.67/-5.11	-8.66/-10.26	-4.29/-5.06	-4.84/-2.94	-1.75/-4.00	-2.36/-2.35	0.71/1.12
Θ(142.5°)	-0.11/-2.01	-3.14/-3.26	-4.75/-6.56	-6.10/-3.03	-2.76/-3.64	-2.50/-2.06	-2.67/-3.71	-4.46/-4.08	-3.31/-3.87	-6.26/-6.18	-10.51/-14.19	-12.19/-11.48	-12.48/-15.53	-8.62/-9.88	-9.07/-10.64	-12.03/-9.16	-10.21/-6.96	-1.58/-12.09	-9.75/-9.55	-7.91/-5.30	-3.41/-4.16	-2.84/-2.78	-3.13/-3.21	-0.97/0.37
Θ(150°)	-4.86/-6.82	-4.76/-4.23	-1.92/-3.57	-5.09/-6.71	-7.14/-6.46	-6.38/-6.34	-5.90/-5.47	-6.18/-6.40	-6.42/-6.14	-4.83/-5.63	-7.27/-11.11	-9.69/-8.55	-7.78/-10.46	-8.08/-6.40	-9.76/-15.47	-15.76/-11.29	-5.37/-6.06	-10.94/-6.84	-7.98/-9.47	-8.75/-4.11	-3.03/-3.33	-2.42/-2.17	-1.36/-2.13	-2.07/-2.99
Θ(157.5°)	-5.10/-5.40	-6.66/-4.82	-6.74/-8.47	-9.61/-9.50	-9.23/-8.48	-6.27/-5.91	-6.96/-8.45	-8.70/-8.56	-8.65/-10.93	-13.23/-13.49	-12.73/-10.65	-9.47/-7.99	-8.46/-10.72	-13.80/-15.18	-12.21/-11.04	-11.82/-8.85	-5.03/-6.14	-8.53/-8.36	-11.41/-11.87	-7.08/-3.94	-2.74/-2.15	-2.99/-4.91	-1.74/-9.85	-4.62/-4.85
Θ(165°)	-11.46/-11.44	-10.98/-10.70	-10.48/-8.11	-6.21/-4.91	-4.73/-4.67	-5.28/-6.44	-6.62/-6.68	-7.08/-8.07	-7.99/-8.38	-8.31/-7.64	-6.71/-6.44	-7.86/-10.15	-11.40/-11.46	-12.67/-11.79	-9.19/-8.85	-10.13/-10.05	-9.65/-9.							

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



