



Antenna Pattern of 6GHz

Appendix B.2

Total Gain Data

Freq(Hz)	6.1750Pol.	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°)	-1.35/-1.52	-1.45/-1.71	-1.80/-1.83	-1.76/-1.62	-1.62/-1.98	-2.41/-2.68	-2.58/-2.67	-2.77/-2.79	-3.00/-3.06	-3.46/-3.84	-4.06/-3.89	-3.58/-3.32	-3.61/-3.84	-4.05/-3.84	-3.48/-3.24	-3.16/-3.14	-3.00/-3.03	-2.70/-2.41	-2.41/-2.18	-1.92/-1.80	-1.55/-1.30	-1.23/-1.48	-1.61/-1.50	-1.28/-1.17
Θ(7.5°)	-8.35/-7.79	-6.63/-6.24	-5.93/-5.92	-5.63/-4.93	-4.28/-3.69	-3.25/-2.74	-2.07/-1.60	-1.20/-0.92	-0.81/-0.82	-0.89/-0.88	-0.64/-0.25	0.03/0.06	-0.15/-0.23	-0.02/0.10	0.22/0.25	0.14/-0.12	-0.51/-0.95	-1.18/-1.54	-2.30/-2.97	-3.52/-3.73	-4.32/-6.05	-5.00/-5.32	-5.80/-6.84	-7.68/-8.32
Θ(15°)	-7.35/-6.35	-5.19/-5.48	-5.89/-5.73	-4.68/-3.24	-2.39/-1.76	-1.47/-1.14	-0.88/-1.02	-1.19/-1.28	-1.31/-1.14	-1.38/-1.91	-2.44/-2.64	-2.96/-3.53	-4.16/-4.47	-4.41/-3.78	-2.75/-1.85	-1.32/-1.08	-0.91/-0.69	-0.58/-1.10	-1.78/-2.73	-3.78/-4.92	-5.49/-5.46	-4.31/-3.29	-3.20/-3.68	-5.27/-7.27
Θ(22.5°)	-5.60/-5.07	-4.77/-4.49	-3.52/-2.78	-1.71/-0.92	-0.66/-0.47	-0.01/0.61	0.49/-0.25	-1.55/-2.40	-2.47/-2.12	-2.30/-2.55	-1.48/-0.31	0.46/0.91	0.58/-0.93	-3.22/-4.90	-3.80/-1.29	0.50/1.43	1.79/1.87	1.85/1.30	0.30/-0.47	-1.00/-1.52	-2.00/-2.18	-2.03/-2.11	-3.06/-3.70	-4.33/-4.79
Θ(30°)	-3.13/-3.55	-4.34/-4.29	-3.41/-1.54	-0.16/0.42	0.58/0.88	1.47/2.00	1.91/1.25	0.38/0.41	0.64/-1.41	-1.13/0.64	1.93/0.05	2.65/1.00	-0.57/-0.48	0.92/2.25	2.89/0.09	2.66/1.93	1.14/0.06	-0.57/-0.96	-2.29/-3.57	-3.29/-2.58	-2.53/-3.55	-4.69/-4.85	-4.54/-3.61	
Θ(37.5°)	-0.09/-0.10	-1.08/-2.79	-4.12/-2.44	-0.26/1.31	2.26/2.27	1.53/0.68	0.48/0.86	1.46/2.45	3.25/3.25	1.73/-1.45	-1.97/-0.08	-1.31/-1.18	-0.40/0.72	1.15/1.64	2.07/2.22	2.20/2.38	2.41/1.69	1.13/0.66	0.53/0.01	-1.74/-2.00	-1.55/-1.10	-0.68/-1.70	-1.00/-0.70	-1.15/-0.61
Θ(45°)	1.45/1.73	1.53/0.63	-0.45/-0.80	0.31/1.39	1.65/1.45	1.00/-0.26	-0.91/0.18	0.78/1.77	3.11/3.67	2.73/0.02	-0.64/0.64	-1.41/-1.32	0.22/1.25	2.01/2.19	1.90/1.50	1.92/2.41	2.45/2.31	2.17/1.07	-0.88/-0.75	-0.46/-1.82	-1.28/-0.65	0.70/-1.42	-0.07/-0.01	-0.40/-0.11
Θ(52.5°)	1.02/1.45	1.46/1.43	0.99/0.79	1.37/1.45	0.59/-0.86	-1.33/-2.62	-2.98/-0.89	-0.42/0.18	1.28/2.99	3.15/0.65	0.55/1.20	0.77/2.23	1.01/0.35	-1.47/-2.45	-0.73/0.43	0.79/1.30	1.40/1.37	1.28/-0.47	-2.00/-2.24	-1.53/-2.22	-1.49/-1.62	0.03/0.05	1.51/0.51	-0.12/0.24
Θ(60°)	2.12/1.26	-0.58/-0.15	1.04/1.45	1.50/1.19	0.29/-2.14	-1.76/-1.39	-3.69/-3.66	-3.67/-1.84	-0.55/1.38	2.46/0.97	0.76/1.10	0.66/1.75	0.12/-3.58	-6.32/-8.22	-4.97/-2.75	-2.27/-0.59	0.10/0.21	0.88/-0.17	-1.08/-1.43	-1.05/-4.33	-1.49/-2.06	0.98/1.03	1.77/1.37	1.26/1.91
Θ(67.5°)	2.13/0.82	-2.05/-1.22	0.42/0.88	0.86/0.22	-0.37/-3.95	-3.86/-2.96	-4.20/-4.00	-4.10/-1.87	-0.66/0.43	1.25/0.61	1.73/-0.34	-1.03/-0.27	-2.58/-3.41	-2.28/-0.95	-2.61/-1.89	-0.06/2.53	3.23/2.66	2.58/1.13	-0.15/-0.31	-0.97/-5.14	-1.76/-1.78	0.70/1.93	2.55/1.92	1.16/2.03
Θ(75°)	1.51/-0.35	-3.47/-2.66	-0.29/0.35	-0.65/-1.46	-1.51/-5.48	-3.87/-1.54	-3.46/-3.16	-3.64/-3.90	-1.33/-1.44	-0.12/-0.73	1.00/-1.06	-3.39/-2.43	-2.97/-3.53	-0.67/0.93	-1.93/-0.84	1.84/4.04	4.57/3.26	3.29/1.86	0.55/0.50	0.19/-2.32	-1.17/-2.44	0.58/2.33	2.27/0.82	0.48/1.05
Θ(82.5°)	0.49/-0.53	-2.93/-0.92	-1.00/-0.39	-1.17/-1.56	-2.50/-7.86	-2.39/-1.31	-2.74/-2.57	-3.20/-7.04	-4.17/-2.92	-4.57/-3.03	-0.91/-3.85	-5.63/-6.49	-3.12/-3.59	0.30/-0.27	-2.53/0.53	2.80/4.10	4.83/3.64	3.21/1.69	0.61/0.21	-0.03/-2.40	-2.98/-3.42	-0.27/1.83	1.28/0.60	-0.14/-0.01
Θ(90°)	-0.79/-0.87	-4.14/-4.17	-2.14/-0.98	-1.23/-1.86	-4.50/-9.19	-2.43/-1.55	-4.73/-5.51	-3.65/-4.52	-9.43/-5.29	-10.65/-6.46	-3.35/-1.58	-8.72/-7.52	-5.27/-6.41	-2.35/-1.90	-4.12/-2.20	1.65/2.41	3.73/1.07	1.48/-0.06	-0.56/-1.49	-1.58/-4.89	-4.91/-5.11	-2.05/-0.38	0.42/-1.77	-2.11/-1.80
Θ(97.5°)	-1.52/-1.41	-3.47/-3.70	-2.58/-1.47	-2.50/-2.72	-4.33/-7.57	-3.40/-5.04	-6.19/-6.38	-4.85/-7.21	-9.80/-6.55	-8.85/-6.98	-7.22/-8.70	-8.79/-13.75	-4.53/-7.44	-5.94/-3.63	-5.61/-4.64	-0.69/-0.20	0.12/-3.48	-0.93/-4.19	-2.58/-3.25	-2.81/-5.85	-8.33/-5.14	-3.52/-1.65	-0.98/-3.62	-3.11/-3.10
Θ(105°)	-1.97/-2.27	-3.84/-4.93	-3.11/-1.99	-2.94/-4.26	-7.37/-9.51	-3.69/-2.79	-7.77/-10.77	-9.58/-14.99	-12.13/-11.83	-7.97/-7.70	-9.90/-8.74	-10.38/-13.72	-7.88/-7.36	-10.57/-3.56	-5.22/-5.11	-1.53/-2.82	-3.35/-6.73	-2.17/-4.82	-5.07/-4.70	-5.77/-7.13	-12.38/-7.85	-4.53/-4.28	-4.76/-4.48	-4.14/-5.50
Θ(112.5°)	-3.50/-3.96	-4.51/-5.43	-3.90/-2.99	-4.40/-6.01	-6.06/-7.87	-6.52/-7.41	-8.40/-11.89	-9.81/-12.27	-13.96/-13.15	-7.81/-8.48	-8.86/-7.51	-13.33/-12.44	-7.89/-10.46	-8.32/-3.36	-6.52/-6.77	-2.25/-2.83	-3.72/-7.05	-3.81/-5.28	-6.16/-3.54	-5.63/-5.94	-15.56/-6.05	-5.17/-6.13	-4.44/-3.41	-3.60/-2.93
Θ(120°)	-4.77/-4.71	-7.41/-6.62	-5.08/-5.12	-7.02/-7.15	-8.10/-10.12	-7.59/-7.21	-14.22/-9.62	-7.31/-11.36	-14.66/-14.97	-13.87/-12.47	-9.66/-10.28	-15.10/-13.29	-10.42/-11.32	-8.03/-7.80	-10.04/-13.96	-7.49/-6.18	-9.36/-7.60	-10.18/-11.00	-13.03/-4.83	-9.26/-7.09	-14.87/-12.78	-2.96/-6.02	-8.26/-5.52	-5.80/-3.22
Θ(127.5°)	-9.13/-8.47	-10.13/-12.68	-9.75/-10.91	-11.08/-9.30	-8.63/-10.70	-10.62/-8.82	-11.32/-11.42	-8.45/-9.58	-12.57/-16.02	-14.16/-10.56	-9.46/-15.86	-13.26/-8.03	-11.53/-10.17	-10.96/-9.96	-8.24/-9.84	-10.42/-5.72	-9.04/-14.62	-14.02/-5.37	-8.57/-9.85	-10.44/-10.22	-5.76/-4.13	-6.47/-4.10	-5.82/-3.09	-9.92/-0.09
Θ(135°)	-7.80/-8.72	-10.15/-10.96	-8.63/-8.49	-8.07/-8.36	-10.81/-15.56	-13.69/-11.75	-13.48/-15.30	-12.38/-10.63	-9.88/-10.26	-11.22/-9.89	-9.49/-13.61	-15.83/-9.32	-10.66/-8.89	-7.77/-10.39	-10.12/-5.12	-8.10/-10.43	-8.44/-3.55	-8.09/-10.09	-11.97/-8.29	-6.15/-11.49	-11.93/-14.95	-8.25/-10.11	-8.41/-7.84	-10.48/-8.82
Θ(142.5°)	-10.37/-11.75	-13.44/-12.39	-11.56/-12.42	-12.06/-10.75	-10.93/-11.94	-11.76/-9.58	-13.36/-15.07	-14.65/-10.92	-9.68/-13.97	-15.57/-13.42	-14.08/-15.23	-15.66/-15.86	-12.92/-7.38	-5.05/-7.02	-7.28/-7.74	-8.09/-9.16	-7.46/-6.20	-10.70/-12.28	-10.09/-12.74	-8.42/-10.09	-15.21/-13.14	-14.81/-12.77	-9.68/-10.04	-9.46/-10.51
Θ(150°)	-10.30/-12.95	-13.13/-12.68	-13.35/-15.44	-15.61/-15.28	-15.45/-15.82	-14.85/-12.25	-11.32/-10.82	-12.00/-13.73	-11.85/-14.60	-12.70/-9.28	-9.99/-9.57	-9.40/-7.41	-6.24/-7.45	-8.85/-9.95	-12.48/-15.17	-15.37/-15.07	-12.95/-13.73	-13.18/-10.80	-12.95/-12.11	-11.77/-13.69	-13.78/-12.96	-11.00/-9.36		
Θ(157.5°)	-13.95/-14.27	-15.62/-15.32	-14.11/-12.36	-10.93/-9.85	-10.82/-13.79	-15.01/-13.38	-12.33/-12.27	-12.00/-12.28	-11.86/-11.42	-12.17/-12.45	-11.40/-7.34	-4.96/-6.86	-9.21/-6.51	-5.55/-6.53	-7.31/-6.76	-7.54/-8.21	-8.67/-9.53	-10.90/-12.46	-12.91/-12.35	-12.23/-8.79	-7.42/-8.27	-10.70/-9.75	-10.11/-12.33	-13.37/-14.88
Θ(165°)	-15.11/-14.50	-14.99/-15.99	-15.49/-15.86	-14.43/-14.22	-14.34/-14.27	-15.06/-14.30	-14.40/-12.60	-9.74/-8.59	-8.69/-10.04	-12.68/-15.67	-15.23/-11.37	-8.07/-8.13	-10.83/-12.72	-12.23/-14.70	-10.54/-11.21	-11.61/-12.96	-12.49/-12.65	-15.15/-15.03	-14.51/-11.96	-10.55/-10.18	-11.94/-14.90	-14.47/-11.13	-10.46/-14.20	-15.16/-16.37
Θ(172.5°)	-15.07/-15.45	-15.85/-15.20	-15.14/-14.88	-15.21/-14.62	-15.41/-14.82	-15.07/-13.09	-11.26/-10.53	-10.42/-10.87	-11.42/-12.96	-15.02/-16.01	-15.24/-13.44	-12.68/-11.80	-11.32/-11.67	-11.57/-10.84	-10.35/-10.01	-9.35/-9.66	-11.19/-17.18	-14.82/-13.81	-14.70/-15.69	-15.16/-15.77	-14.82/-14.90	-14.31/-15.45	-15.30/-15.62	-15.28/-15.48
Θ(180°)	-14.65/-14.68	-14.19/-13.21	-12.52/-13.00	-13.65/-15.09	-14.93/-15.46	-15.21/-14.71	-15.11/-15.75	-15.21/-15.15	-14.87/-15.63	-15.62/-15.90	-15.17/-15.75	-15.15/-15.56	-15.07/-15.83	-15.38/-15.46	-15.33/-15.39	-15.37/-15.30	-15.16/-14.75	-13.85/-14.16	-14.48/-14.28	-14.47/-13.59	-13.47/-14.11	-14.14/-14.81	-15.12/-14.33	-13.85/-14.17
Freq(Hz)	6.1750Pol.	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°)	-2.36/-2.04	-1.88/-1.65	-1.55/-1.80	-1.82/-1.83	-2.09/-2.27	-2.39/-2.66	-2.77/-3.08	-3.32/-3.37	-2.94/-3.00	-3.08/-3.19	-3.39/-3.62	-3.49/-3.46	-3.63/-4.03	-4.30/-4.34	-4.58/-4.60	-4.94/-4.71	-4.55/-4.30	-4.22/-4.33	-4.67/-4.64	-4.55/-4.16	-4.07/-3.49	-3.18/-3.21	-3.11/-2.95	-2.43/-2.33
Θ(7.5°)	-6.54/-7.11	-6.89/-6.62	-6.30/-6.17	-6.05/-6.16	-6.35/-6.58	-5.39/-5.29	-5.46/-5.32	-5.09/-6.45	-3.70/-2.89	-1.95/-1.42	-1.09/-0.81	-0.46/-0.12	0.01/0.23	0.53/0.59	0.46/0.38	0.21/0.19	0.36/0.21	-0.23/-0.35	-0.48/-0.90	-1.00/-1.34	-1.63/-2.11	-2.43/-3.10	-3.94/-4.53	-4.89/-5.81
Θ(15°)	-6.78/-6.74	-9.00/-10.00	-8.63/-7.79	-6.69/-6.59	-6.55/-6.38	-5.18/-4.39	-3.69/-3.33	-3.18/-3.32	-3.38/-3.60	-2.52/-2.20	-2.32/-2.53	-2.72/-2.27	-1.53/-0.51	0.47/1.13	1.23/1.33	1.01/1.17	1.02/0.73	0.54/0.45	0.30/0.03	-0.12/-0.46	-0.93/-1.64	-2.68/-3.40	-4.26/-5.44	
Θ(22.5°)	-4.80/-6.62	-8.99/-10.35	-8.24/-5.56	-4.25/-4.76	-6.39/-8.98	-7.19/-3.95	-1.89/-1.10	-1.59/-2.50	-2.89/-2.71	-2.28/-2.15	-2.16/-1.30	-1.25/-2.25	-3.56/-4.37	-4.33/-3.68	-2.04/-0.05	1.73/2.99	3.60/3.74	3.52/3.08	2.74/2.66	2.42/2.22	1.78/1.34	0.74/0.32	-1.40/-1.51	-2.41/-3.39
Θ(30°)	-1.98/-2.78	-3.32/-4.39	-6.98/-8.33	-4.73/-2.07	-1.22/-1.98	-3.12/-2.12	-0.51/0.10	-0.88/-2.58	-2.50/-1.49	-1.01/-1.23	3.22/3.31	2.83/0.71	-3.00/-2.58	0.22/2.40	4.05/4.47	4.12/3.09	2.11/1.74	1.24/0.62	0.29/0.62	0.94/1.54	1.65/1.48	1.56/0.91	-0.32/-0.96	
Θ(37.5°)	1.30/1.17	1.52/1.65	0.51/-2.25	-5.45/-2.50	0.12/0.29	-1.13/-1.23	0.25/-0.21	-1.12/-0.09	1.50/1.31	-1.25/-4.09	-2.45/0.17	0.18/0.69	0.05/-1.47	0.92/2.65</										



Antenna Pattern of 6GHz

Appendix B.2

Θ(22.5°)	0.15/-0.24	-0.70/-1.44	-2.34/-2.80	-2.89/-2.86	-2.66/-2.20	-1.93/-1.93	-2.39/-3.29	-4.54/-5.42	-6.31/-7.20	-7.11/-5.35	-4.34/-3.50	-2.21/-1.76	-1.17/-0.18	-0.12/-0.95	-1.96/-2.00	-1.50/-1.15	-1.01/-0.54	0.06/0.52	0.76/0.94	1.17/1.48	1.65/1.50	1.00/0.44	0.58/1.17	0.98/0.61
Θ(30°)	-2.52/-2.54	-2.33/-3.41	-4.48/-4.99	-5.09/-4.77	-3.99/-2.21	-0.96/-0.72	-0.84/-1.02	-1.37/-1.89	-1.85/-1.32	-1.03/-1.28	-2.08/-3.42	-1.94/-0.23	1.36/1.92	0.82/-0.08	0.68/0.96	0.91/0.76	-0.02/-0.57	0.03/-1.28	2.17/2.25	1.89/1.68	2.31/2.96	2.76/1.79	0.70/-0.41	-1.66/-1.79
Θ(37.5°)	-3.26/-1.00	-0.29/-0.42	-0.72/-0.97	-1.19/-1.74	-1.75/-1.30	-0.56/-0.36	0.66/-0.04	-1.58/-2.57	-1.61/-0.04	0.77/0.63	0.08/-2.18	-2.52/-0.20	1.71/1.81	1.51/1.61	2.08/2.63	2.09/0.73	-0.33/-1.30	0.33/1.85	3.04/3.14	2.85/2.74	3.20/2.17	0.70/-1.98	-5.30/-6.12	
Θ(45°)	-0.54/1.35	1.78/1.36	0.44/0.01	-0.17/-0.41	-0.36/-0.48	-0.44/-0.01	0.14/-0.26	-1.12/-1.49	-1.23/-0.54	0.51/0.81	-0.01/-2.23	-4.37/-0.41	1.56/1.78	2.36/2.54	3.90/4.68	3.13/1.39	0.80/1.53	2.85/4.07	4.32/3.95	3.58/2.72	2.73/3.19	3.03/1.49	-1.19/-4.07	-5.04/-3.42
Θ(52.5°)	0.92/2.61	2.55/1.28	-0.93/-1.53	-1.11/-0.53	0.16/0.39	0.50/0.36	0.05/-0.47	-0.69/0.21	0.85/0.99	0.67/-1.05	-1.46/-1.31	-0.72/-0.28	-0.32/0.13	1.14/1.45	3.68/4.53	3.25/2.04	2.40/2.80	3.71/4.21	4.52/4.35	3.72/3.17	2.91/3.34	2.42/-0.85	-3.94/-3.96	-3.68/-1.78
Θ(60°)	1.84/2.57	2.40/0.19	-2.88/-3.19	-1.72/-0.43	0.19/0.65	1.23/1.67	1.69/0.29	-0.76/1.34	1.96/1.51	1.18/0.17	-1.03/-0.98	-1.08/0.51	-0.04/-1.25	0.29/0.52	2.07/3.40	2.09/0.65	-0.64/-1.69	0.27/1.23	1.83/1.43	0.21/0.88	1.99/2.26	1.49/-3.37	-6.22/-5.07	-2.17/1.10
Θ(67.5°)	1.32/2.11	1.89/-0.20	-2.98/-3.59	-2.23/-0.47	0.05/0.06	1.27/2.73	3.00/1.89	0.18/0.93	2.26/1.87	1.25/0.12	-0.61/1.12	0.28/-0.27	-2.69/-2.13	-1.56/-1.64	-0.16/-0.55	-1.69/-1.16	-2.58/-5.08	-3.42/-0.10	0.31/-0.19	-2.08/-1.74	-0.15/0.44	-0.65/-5.19	-8.49/-5.96	-2.05/-0.16
Θ(75°)	0.70/1.61	1.50/0.45	-2.81/-3.10	-1.59/-0.07	0.03/-0.76	1.17/2.74	2.55/1.16	0.48/0.52	1.45/1.14	1.87/1.30	-0.43/0.27	0.10/-0.72	-3.49/-2.57	-1.58/-2.94	-1.97/-2.17	-3.30/-1.70	-2.32/-3.81	-3.07/0.11	-0.20/-2.36	-3.11/-3.67	-1.22/-1.07	-1.34/-3.84	-5.83/-6.42	-2.60/-0.78
Θ(82.5°)	-0.81/0.42	1.37/0.32	-2.24/-2.97	-1.77/-0.19	-0.33/-0.91	1.28/2.23	1.80/-0.12	-0.47/-0.21	-0.03/0.53	0.85/0.24	0.21/0.11	-2.32/-3.48	-3.55/-2.14	-3.02/-4.24	-4.05/-1.57	-1.37/-0.85	-1.12/-1.15	-0.97/-2.86	-2.72/-3.69	-1.51/-2.44	-2.76/-3.16	-5.23/-5.42	-1.85/-1.29	
Θ(90°)	-1.98/-0.79	-0.32/-0.54	-2.41/-4.20	-3.09/-1.21	-0.61/-0.93	-0.10/1.21	1.24/-0.04	-1.74/-0.82	-1.80/-0.18	-0.47/-0.92	0.04/-0.50	-4.21/-4.54	-3.92/-3.14	-5.28/-7.73	-6.48/-5.62	-4.84/-3.60	-4.22/-2.00	-0.82/-2.87	-2.09/-3.61	-2.99/-4.63	-3.34/-5.11	-5.19/-4.87	4.86/-4.86	-2.89/-2.27
Θ(97.5°)	-2.88/-2.07	-1.49/-2.03	-3.28/-4.19	-4.25/-3.05	-2.27/-2.28	-1.14/0.43	0.09/-0.78	-2.81/-2.36	-2.07/-0.46	-2.27/-1.70	-0.61/-1.53	-4.43/-5.96	-6.17/-5.26	-9.43/-11.36	-11.34/-9.33	-6.40/-7.51	-7.02/-4.50	-4.67/-6.79	-5.78/-8.80	-6.46/-7.41	-6.46/-9.11	-6.70/-7.32	-6.15/-4.72	-3.58/-2.73
Θ(105°)	-3.39/-3.19	-4.01/-3.41	-4.06/-4.14	-4.93/-4.25	-2.88/-3.05	-2.78/-2.04	-1.47/-1.33	-2.52/-2.38	-3.10/-1.71	-3.60/-1.97	-0.89/-2.56	-5.24/-5.63	-4.94/-4.37	-7.82/-11.41	-14.14/-12.28	-10.09/-9.19	-8.13/-6.25	-6.11/-12.11	-9.46/-15.78	-13.59/-12.66	-11.23/-12.33	-9.74/-8.51	-8.31/-6.47	-4.37/-3.09
Θ(112.5°)	-4.70/-4.20	-4.54/-4.99	-5.34/-6.86	-6.50/-5.41	-3.76/-4.36	-4.32/-3.03	-1.57/-1.80	-1.59/-3.11	-1.78/-2.66	-4.21/-2.61	-2.74/-3.21	-6.22/-8.46	-6.79/-6.64	-7.64/-9.55	-13.74/-11.69	-13.62/-8.87	-7.94/-6.91	-9.81/-10.87	-10.48/-14.86	-14.39/-11.09	-8.77/-9.03	-10.40/-12.05	-10.08/-6.61	-5.75/-4.50
Θ(120°)	-5.61/-5.95	-5.95/-6.73	-7.73/-8.91	-7.31/-6.19	-5.20/-4.24	-5.84/-5.62	-4.54/-4.61	-5.41/-4.22	-4.48/-4.52	-5.25/-4.40	-7.11/-6.16	-5.59/-7.45	-7.41/-7.93	-9.96/-10.83	-8.93/-10.66	-15.21/-10.70	-12.47/-12.29	-10.15/-12.78	-14.99/-10.20	-11.89/-11.01	-10.29/-11.46	-8.22/-10.25	-12.88/-9.63	-6.36/-5.00
Θ(127.5°)	-7.52/-5.97	-6.18/-7.19	-8.66/-10.67	-10.45/-6.15	-5.19/-4.04	-3.91/-5.82	-2.94/-6.84	-9.44/-8.60	-6.00/-5.90	-8.00/-9.98	-7.43/-4.85	-5.63/-6.76	-9.74/-10.02	-8.85/-9.83	-13.55/-10.40	-10.91/-8.68	-15.19/-15.02	-13.23/-15.55	-15.94/-13.04	-14.34/-10.75	-10.68/-13.05	-11.70/-12.57	-9.59/-6.98	
Θ(135°)	-7.95/-7.98	-8.46/-10.14	-12.97/-12.26	-10.48/-9.94	-7.79/-6.36	-5.90/-7.07	-7.48/-7.93	-7.01/-7.30	-8.09/-6.53	-4.87/-6.00	-7.16/-7.04	-9.99/-15.46	-9.14/-8.14	-12.19/-12.16	-8.48/-13.78	-11.01/-11.96	-12.06/-15.07	-15.58/-13.27	-13.14/-13.38	-14.27/-15.18	-10.74/-15.45	-15.60/-12.03	-10.58/-8.23	
Θ(142.5°)	-10.06/-9.90	-11.62/-11.62	-12.20/-11.46	-9.11/-8.94	-9.12/-8.20	-6.74/-5.93	-5.53/-9.17	-6.32/-6.52	-5.64/-6.38	-7.05/-9.73	-4.93/-13.24	-15.60/-13.49	-10.73/-12.17	-15.43/-13.77	-11.47/-12.03	-12.49/-11.89	-12.17/-13.86	-11.03/-12.10	-12.00/-11.75	-13.41/-15.43	-14.62/-14.40	-12.88/-9.63	-6.36/-5.00	
Θ(150°)	-12.71/-14.98	-13.08/-13.31	-13.96/-12.92	-9.93/-8.14	-8.82/-11.02	-11.96/-12.56	-11.52/-11.27	-11.77/-10.96	-10.56/-16.17	-9.35/-9.81	-11.82/-15.03	-15.19/-14.27	-12.23/-9.28	-9.78/-13.47	-15.24/-15.67	-14.07/-10.16	-8.83/-10.21	-12.41/-13.85	-15.23/-15.59	-13.68/-15.93	-14.95/-13.31	-15.15/-14.85	-15.04/-13.64	-10.92/-12.89
Θ(157.5°)	-14.73/-14.16	-12.74/-12.64	-13.44/-13.34	-13.36/-12.39	-11.54/-10.61	-11.30/-13.39	-15.37/-14.43	-16.23/-14.57	-13.28/-13.58	-15.44/-14.77	-13.25/-12.45	-11.91/-12.08	-13.10/-14.38	-13.66/-12.87	-12.26/-12.19	-11.12/-10.05	-11.56/-13.12	-13.10/-13.17	-15.32/-15.02	-14.64/-15.79	-14.64/-13.30	-15.10/-14.57	-11.51/-13.20	-14.49/-14.57
Θ(165°)	-14.95/-14.76	-16.04/-15.74	-13.15/-11.76	-10.85/-11.16	-12.04/-11.12	-10.57/-10.10	-9.70/-7.99	-7.22/-9.39	-10.65/-12.18	-13.09/-14.55	-15.22/-16.00	-15.48/-14.92	-14.28/-12.49	-11.60/-12.04	-12.03/-12.44	-12.87/-12.89	-13.24/-14.59	-14.12/-14.14	-14.46/-15.04	-15.53/-13.70	-10.69/-10.45	-13.67/-13.08	-10.35/-10.79	-12.47/-13.13
Θ(172.5°)	-14.98/-13.75	-12.37/-11.82	-10.78/-10.32	-9.35/-9.46	-10.17/-10.77	-10.92/-10.93	-11.02/-11.33	-12.50/-14.24	-15.41/-13.33	-13.98/-14.94	-14.67/-13.55	-12.65/-11.27	-11.09/-11.29	-12.73/-13.74	-14.75/-14.87	-14.40/-14.81	-15.18/-15.14	-14.83/-14.98	-15.83/-14.58	-12.81/-12.25	-12.46/-13.46	-14.59/-15.48	-15.12/-14.41	-14.43/-14.38
Θ(180°)	-14.43/-14.32	-14.75/-16.14	-15.79/-15.05	-16.17/-15.60	-15.29/-15.98	-15.17/-15.25	-15.66/-15.20	-15.36/-15.73	-14.24/-15.00	-15.19/-15.41	-15.28/-15.63	-14.87/-15.53	-15.18/-15.14	-14.97/-15.10	-15.30/-15.17	-14.54/-14.48	-13.52/-13.70	-13.77/-13.92	-13.81/-14.66	-14.63/-14.16	-13.70/-13.63	-13.49/-13.99	-15.42/-15.03	-13.36/-13.92
Freq(Hz)	6.4750Pol.	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°)	-2.17/-2.05	-1.86/-1.86	-2.17/-2.44	-2.26/-1.97	-2.20/-2.36	-2.23/-2.20	-2.41/-2.19	-1.86/-2.04	-2.40/-2.35	-2.12/-2.14	-2.05/-1.90	-1.91/-1.93	-2.02/-2.09	-2.57/-2.92	-2.98/-2.79	-2.56/-2.58	-2.63/-2.59	-2.90/-3.27	-2.97/-2.97	-2.98/-3.17	-3.25/-3.06	-2.83/-2.55	-2.30/-2.18	-2.27/-2.25
Θ(7.5°)	-1.63/-2.13	-2.77/-3.62	-4.15/-4.70	-5.10/-5.21	-5.26/-5.70	-4.85/-4.62	-4.47/-4.42	-4.40/-4.12	-3.88/-3.75	-3.24/-2.60	-1.91/-1.81	-1.68/-1.52	-2.43/-2.51	-1.85/-2.22	-2.77/-2.63	-1.98/-1.97	-1.94/-1.79	-1.61/-1.40	-1.20/-1.16	-1.01/-1.08	-1.35/-1.53	-	-	-
Θ(15°)	0.18/-0.26	-1.05/-1.83	-2.88/-3.92	-4.14/-4.13	-4.41/-4.33	-4.20/-4.61	-5.43/-5.41	-4.86/-5.71	-5.17/-4.38	-4.05/-3.68	-3.53/-3.77	-3.45/-2.53	-2.32/-2.13	-1.73/-0.99	-0.57/-0.33	-0.30/-0.67	-1.02/-0.95	-0.52/-0.15	0.15/0.48	0.83/1.05	1.08/0.78	0.48/0.25	0.23/0.28	
Θ(22.5°)	-0.72/-1.55	-2.99/-4.66	-6.50/-7.26	-7.84/-7.16	-5.37/-3.69	-2.80/-2.98	-3.63/-3.14	-2.39/-2.48	-2.85/-2.79	-2.90/-3.32	-4.01/-4.57	-4.76/-3.47	-2.98/-1.68	-1.48/-2.35	-3.98/-5.45	-6.68/-6.15	-3.43/-1.31	0.17/1.11	1.72/2.54	3.07/3.13	2.60/1.57	0.24/-0.29	-0.34/-0.25	-0.43/-0.57
Θ(30°)	-0.85/-1.02	-2.36/-3.31	-3.40/-3.42	-3.84/-4.33	-3.67/-1.84	-3.05/-2.98	-1.08/-2.22	-3.05/-2.65	-2.09/-1.94	-1.10/-0.24	-0.17/-0.85	-1.55/-2.37	-2.00/-1.71	-0.13/-2.09	-3.63/-4.11	-3.51/-1.94	0.01/1.27	1.97/2.81	3.64/4.14	4.37/4.39	3.90/3.05	1.20/-0.54	-2.09/-2.34	-1.38/-1.07
Θ(37.5°)	1.01/1.43	0.40/-0.79	-1.64/-1.90	-2.45/-3.26	-3.12/-1.44	0.35/0.75	-0.93/-3.03	-3.35/-3.33	-3.89/-3.42	-1.33/0.61	1.53/1.07	0.18/-0.24	-1.66/0.90	1.93/1.10	0.25/0.40	-0.69/-1.82	-1.79/-1.10	0.06/2.04	3.85/4.46	4.10/4.04	3.74/2.68	0.04/-2.76	-2.78/-3.19	-2.36/-0.08
Θ(45°)	2.23/2.14	-0.08/-2.39	-2.56/-1.08	-0.57/-0.32	0.28/0.73	1.52/2.04	0.68/-2.68	-4.40/-2.47	-0.67/-0.10	0.30/0.48	0.31/0.57	-0.09/-1.69	-2.29/0.19	1.64/1.49	2.19/3.38	2.61/-0.19	-1.49/-0.91	0.87/3.08	4.47/4.62	3.48/2.16	1.95/0.77	-1.47/-3.23	-3.88/-3.03	-1.77/0.93
Θ(52.5°)	2.79/2.31	0.60/-0.20	-2.74/-1.57	-0.65/0.37	0.82/1.24	2.13/3.03	2.84/1.77	-2.02/-0.35	1.67/2.08	2.47/1.48	-0.64/-0.24	-0.47/-1.04	-0.88/-1.83	-0.31/0.63	2.64/4.72	3.90/1.56	0.24/1.47	3.21/3.96	4.69/4.83	3.89/2.34	1.86/0.25	-2.85/-3.67	-2.18/-1.01	-0.39/-1.45
Θ(60°)	3.46/3.42	1.38/-1.14	-0.92/-0.95	-0.57/-0.35	-0.40/0.28	1.93/3.38	3.80/3.13	1.11/0.21	2.12/3.18	2.98/1.72	-0.07/1.62	1.66/0.12	-0.98/-3.54	-2.72/-1.38	0.35/2.96	2.33/0.23	-1.86/-1.62	-0.19/1.09	2.09/2.40	1.32/0.79	0.18/-0.70	-3.19/-3.67	-0.33/0.10	0.96/2.26
Θ(67.5°)	3.25/3.83	2.46/0.85	0.88/0.82	0.69/0.07	-1.16/-0.92	1.35/2.88	2.80/1.39	1.32/1.94	1.82/2.40	2.96/1.58	1.02/2.22	1.21/0.86	-0.21/-1.79	-1.26/-1.64	-1.12/0.86	0.72/-0.28	-2.14/-2.76	-4.82/-0.66	0.54/0.54	-1.73/-1.05	-1.63/-2.78	-3.44/-2.98	-0.93/-0.02	1.65/2.47
Θ(75°)	2.74/3.98	3.19/1.61	1.75/1.03	1.44/2.08	-1.82/-0.41	0.99/2.34	2.62/1.91	0.30/0.87	1.94/2.49	1.98/1.12	1.4													



Antenna Pattern of 6GHz

Appendix B.2

θ(60°)	-4.23/-2.12	0.84/0.05	3.02/2.89	2.24/2.48	2.81/1.74	0.68/-1.56	-4.22/-5.49	-6.02/-1.43	0.39/-1.25	0.05/2.64	3.21/3.30	2.67/1.62	2.01/2.18	2.72/1.21	-0.13/-0.55	1.05/-0.12	-0.69/0.96	0.09/-4.81	-1.95/-2.18	-6.00/-3.10	-1.36/-0.75	-1.25/-3.32	-7.43/-5.84	-4.32/-5.67
θ(67.5°)	-1.24/-1.69	-1.09/-0.65	1.12/2.35	1.99/2.36	1.93/0.59	-0.29/-2.30	-4.92/-5.19	-5.29/-0.67	-0.62/-3.02	0.61/0.33	3.53/2.83	0.98/0.97	2.05/1.90	1.88/0.75	-0.25/0.11	1.26/-0.73	-1.42/-0.01	-0.18/-3.12	0.01/-0.17	-2.37/-2.58	-0.99/-1.74	1.28/-0.01	-0.97/-4.06	-0.77/-2.61
θ(75°)	-0.08/-1.83	-1.52/-2.19	-0.97/0.80	-0.08/0.15	0.40/-0.22	-3.03/-5.22	-6.66/-6.03	-6.52/-1.97	-0.94/-3.80	-1.30/1.64	2.98/2.39	0.22/0.78	2.11/1.42	1.69/0.73	-0.79/-0.66	0.86/-0.37	-2.96/-1.31	0.37/-2.32	0.97/0.61	0.62/-1.44	-0.07/2.50	2.69/1.60	-0.30/0.72	1.41/-1.47
θ(82.5°)	-1.35/-4.39	-4.08/-3.53	-2.97/-1.62	-1.34/-2.59	-0.38/-2.45	-5.52/-4.81	-6.07/-5.51	-8.25/-2.74	-1.19/-5.35	-2.69/0.30	1.94/0.49	-1.81/0.10	1.18/0.49	0.37/-0.75	-1.75/-1.05	-0.95/-1.89	-3.71/-1.98	-0.83/-1.90	1.05/-0.27	1.54/-0.41	1.15/3.01	2.90/1.68	-0.77/-0.53	1.20/-1.91
θ(90°)	-3.43/-5.35	-7.38/-8.21	-6.97/-2.90	-3.01/-5.09	-3.10/-5.15	-7.96/-4.30	-5.68/-6.73	-8.13/-6.47	-1.94/-6.14	-4.12/-1.11	0.54/-0.47	-2.58/-1.02	0.54/-0.23	-0.72/-1.37	-3.05/-2.16	-2.29/-1.54	-7.32/-3.17	-2.03/-3.47	-0.85/-1.47	1.32/-2.12	0.07/2.06	1.84/0.24	-2.92/-0.68	0.42/-2.31
θ(97.5°)	-5.69/-6.10	-8.24/-11.30	-10.59/-5.92	-5.43/-7.48	-4.59/-5.42	-10.54/-4.47	-6.10/-7.65	-7.41/-6.04	-4.08/-8.10	-5.19/-2.88	-1.65/-2.41	-4.80/-2.50	-0.92/-1.76	-2.82/-3.86	-4.67/-3.40	-3.07/-4.04	-10.61/-4.23	-4.02/-6.42	-2.27/-5.45	-0.51/-5.37	-2.83/-0.35	0.02/-2.25	-5.56/-1.82	-1.69/-5.25
θ(105°)	-6.85/-7.45	-8.70/-11.64	-10.60/-15.37	-8.28/-7.10	-9.38/-9.39	-10.41/-7.26	-8.17/-13.99	-9.40/-7.36	-4.72/-9.65	-8.14/-4.35	-2.98/-3.24	-4.80/-4.35	-2.41/-3.68	-4.66/-5.36	-5.88/-3.88	-2.92/-5.20	-10.92/-5.08	-4.58/-7.52	-5.19/-7.59	-1.42/-6.07	-6.49/-3.57	-1.65/-3.50	-4.80/-1.31	-1.78/-8.21
θ(112.5°)	-9.01/-9.15	-7.52/-10.65	-8.41/-10.54	-14.04/-12.19	-11.50/-9.49	-9.29/-8.88	-6.13/-8.04	-8.17/-7.23	-9.65/-13.19	-7.57/-6.54	-4.75/-4.14	-6.85/-6.82	-5.50/-4.37	-7.02/-7.86	-7.54/-3.81	-3.84/-10.98	-7.52/-5.97	-3.89/-5.30	-6.05/-7.45	-3.28/-7.57	-7.29/-4.02	-1.38/-3.67	-7.36/-7.21	-5.87/-12.37
θ(120°)	-9.81/-11.16	-10.29/-13.79	-9.88/-8.27	-9.77/-15.17	-15.39/-15.95	-10.97/-10.09	-7.75/-9.13	-11.22/-10.90	-11.12/-12.95	-7.93/-5.47	-6.25/-6.22	-8.08/-7.94	-7.36/-5.16	-6.62/-6.06	-10.71/-5.79	-6.33/-7.55	-13.24/-11.71	-7.16/-11.46	-12.56/-13.07	-5.93/-11.20	-12.05/-8.73	-7.91/-9.05		
θ(127.5°)	-9.18/-9.16	-8.66/-12.36	-15.40/-11.13	-10.20/-9.85	-14.34/-12.72	-12.22/-11.04	-12.46/-13.46	-15.23/-12.51	-12.18/-15.58	-8.39/-6.08	-7.04/-10.92	-11.35/-9.19	-6.33/-5.46	-7.23/-8.65	-11.98/-8.37	-6.79/-6.54	-8.43/-12.11	-6.58/-7.39	-12.41/-14.00	-12.10/-12.90	-14.07/-13.01	-11.98/-10.38	-11.88/-10.09	-9.40/-7.54
θ(135°)	-6.44/-8.02	-5.93/-7.66	-11.94/-14.31	-11.22/-10.89	-14.23/-14.38	-8.83/-9.40	-12.07/-13.36	-14.91/-13.31	-9.56/-11.44	-11.69/-7.48	-6.73/-9.07	-10.09/-10.66	-9.76/-9.21	-10.76/-11.47	-12.45/-11.96	-6.85/-6.87	-14.35/-12.70	-8.09/-10.91	-9.76/-8.60	-9.12/-10.61	-10.43/-11.09	-9.10/-5.51	-4.61/-7.86	-6.89/-5.99
θ(142.5°)	-5.66/-7.32	-7.02/-7.77	-9.65/-12.59	-14.94/-15.92	-13.91/-11.37	-11.56/-12.54	-14.21/-13.50	-12.82/-16.28	-13.22/-12.73	-13.13/-12.18	-11.45/-11.97	-11.58/-11.52	-9.37/-9.18	-9.04/-9.25	-10.16/-9.89	-9.42/-9.47	-16.16/-14.45	-12.40/-14.07	-13.43/-10.54	-9.80/-8.90	-9.99/-11.64	-15.36/-15.06	-7.35/-4.90	-4.71/-4.67
θ(150°)	-8.46/-8.80	-16.29/-15.71	-14.58/-16.05	-15.70/-15.48	-14.37/-15.35	-15.26/-14.80	-15.22/-12.87	-10.99/-12.31	-15.34/-14.88	-11.12/-11.26	-13.32/-15.04	-15.53/-14.57	-13.32/-11.49	-11.35/-8.99	-8.33/-10.99	-12.65/-15.33	-14.65/-12.23	-12.30/-11.75	-12.84/-12.36	-11.19/-9.09	-7.14/-6.71	-9.85/-13.04	-10.37/-8.80	-10.09/-10.37
θ(157.5°)	-9.37/-10.18	-12.71/-15.07	-14.77/-13.20	-13.64/-14.42	-13.22/-12.26	-14.28/-15.34	-15.51/-15.02	-13.30/-11.96	-12.72/-15.07	-15.28/-14.73	-13.18/-12.81	-12.79/-12.78	-13.91/-15.38	-14.82/-10.49	-11.09/-15.50	-12.42/-11.10	-13.24/-14.75	-14.91/-14.04	-12.55/-10.30	-10.34/-10.54	-8.12/-6.31	-6.27/-6.49	-8.61/-12.52	-15.76/-11.27
θ(165°)	-15.19/-15.82	-15.39/-13.47	-14.67/-15.84	-16.05/-15.55	-14.42/-14.42	-15.47/-15.62	-16.10/-15.11	-14.43/-13.13	-11.98/-12.46	-14.19/-15.63	-15.62/-14.71	-16.10/-15.70	-15.79/-15.54	-15.43/-13.85	-13.64/-13.89	-11.42/-11.63	-12.73/-12.58	-11.36/-11.16	-11.91/-12.66	-13.95/-15.13	-13.48/-10.44	-7.44/-6.48	-7.17/-8.41	-11.16/-14.22
θ(172.5°)	-15.78/-14.18	-14.92/-14.51	-15.84/-15.19	-14.78/-15.20	-15.63/-15.03	-15.03/-14.68	-14.43/-15.27	-14.87/-15.44	-14.99/-15.40	-14.75/-15.01	-15.78/-16.00	-14.95/-15.24	-14.47/-14.56	-14.67/-15.07	-15.32/-15.39	-15.01/-14.86	-14.89/-13.62	-12.59/-11.92	-12.55/-13.33	-14.05/-15.37	-15.67/-15.24	-14.91/-13.29	-12.48/-13.00	-14.10/-14.76
θ(180°)	-15.76/-15.32	-14.65/-15.26	-16.06/-15.96	-15.66/-14.74	-14.82/-15.25	-15.81/-15.12	-14.33/-13.89	-14.70/-15.39	-15.70/-15.98	-15.66/-15.09	-15.20/-14.62	-14.87/-15.44	-14.72/-15.40	-15.39/-15.00	-15.26/-15.73	-15.64/-15.24	-15.78/-15.81	-15.51/-15.31	-14.78/-15.33	-16.00/-15.84	-14.59/-15.79	-15.77/-15.73	-14.27/-15.59	-15.14/-15.32
Freq(Hz)	6.475GPdL	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°)	-1.58/-1.59	-1.76/-2.05	-1.83/-1.94	-2.33/-2.74	-2.71/-2.61	-2.85/-2.51	-2.55/-2.64	-2.69/-2.69	-2.65/-2.53	-2.24/-2.20	-2.27/-2.39	-2.45/-2.34	-2.26/-2.29	-2.46/-2.43	-2.69/-2.83	-2.97/-2.88	-2.72/-2.54	-2.55/-2.62	-2.83/-2.91	-2.86/-2.34	-2.06/-2.13	-2.20/-1.99	-1.47/-1.17	-1.54/-1.86
θ(7.5°)	-3.62/-3.51	-3.29/-3.05	-2.83/-2.74	-2.63/-2.47	-2.89/-3.24	-3.54/-3.41	-4.14/-3.96	-3.79/-3.85	-3.96/-3.94	-3.80/-3.78	-3.60/-3.51	-3.37/-3.15	-3.01/-2.92	-2.62/-2.61	-2.79/-2.62	-2.53/-2.49	-2.89/-3.17	-3.13/-3.17	-3.32/-3.79	-4.35/-4.23	-4.23/-4.51	-4.66/-4.31	-3.97/-3.69	-3.50/-3.28
θ(15°)	-2.19/-2.08	-2.61/-3.28	-3.33/-3.42	-2.76/-2.55	-3.00/-3.02	-2.66/-1.90	-1.42/-1.06	-1.30/-2.29	-3.44/-4.51	-5.86/-7.48	-8.74/-9.06	-7.79/-6.43	-4.98/-4.23	-4.84/-4.97	-5.00/-5.02	-4.83/-3.36	-2.73/-3.13	-3.58/-3.66	-3.88/-4.85	-5.96/-6.28	-6.93/-6.98	-5.87/-5.69	-5.04/-3.69	-3.34/-2.77
θ(22.5°)	-1.15/0.10	0.61/0.04	-0.89/-0.63	-0.14/-0.28	-0.84/-1.74	-1.87/-0.96	-0.03/0.88	0.86/-0.18	-1.91/-3.47	-5.05/-6.04	-7.15/-6.72	-3.93/-1.16	0.50/0.92	0.00/-1.05	-1.87/-3.17	-4.89/-5.24	-4.58/-4.34	-4.86/-5.08	-5.03/-4.60	-3.44/-2.01	-1.49/-1.74	-2.29/-2.89	-3.22/-3.62	-3.62/-2.74
θ(30°)	0.41/-1.56	1.49/0.51	-1.48/-2.78	-2.35/-1.43	-1.13/-0.61	-0.84/-1.32	-1.11/-0.27	0.21/-0.26	-0.76/-0.39	-0.21/-1.51	-4.19/-5.04	-1.83/0.86	2.12/2.32	1.47/-0.09	-2.10/-3.85	-6.50/-8.99	-9.71/-9.22	-9.35/-10.00	-8.33/-8.01	-6.68/-2.67	-0.29/0.36	-0.61/-2.35	-3.80/-3.63	-3.19/-1.58
θ(37.5°)	-0.14/-0.92	-1.45/-2.19	-3.85/-3.30	-2.26/0.33	1.11/-1.59	1.74/-1.65	0.18/-0.40	0.38/0.49	-0.05/-0.44	0.64/-1.19	-2.92/-0.74	0.88/-1.42	1.27/-1.03	-0.10/-2.23	-3.68/-3.87	-4.13/-3.73	-6.94/-6.94	-6.65/-10.65	-9.82/-6.86	-7.41/-4.35	-1.02/-0.31	-2.03/-4.43	-5.37/-3.46	-0.54/0.35
θ(45°)	-2.73/-1.93	0.40/-0.42	1.08/0.93	2.17/0.00	4.39/3.96	3.34/-2.47	1.01/-2.09	-0.01/-0.01	-1.53/-0.73	1.28/0.79	0.31/-1.47	1.09/0.28	-0.08/-0.31	-0.49/-1.75	-3.01/-2.56	-0.80/0.31	-2.54/-2.50	-3.91/-9.32	-14.08/-6.85	-7.36/-6.45	-1.69/0.10	-1.23/-3.86	-4.41/-3.54	-1.32/-1.13
θ(52.5°)	-8.28/-0.25	3.00/3.59	2.99/2.38	2.44/1.00	4.33/3.41	2.38/1.81	1.92/0.34	0.65/0.67	-2.96/-0.15	2.66/2.74	3.18/2.71	0.06/0.35	1.74/0.67	0.18/-0.78	-0.25/-1.98	0.69/-1.23	-1.16/-1.27	-3.02/-8.46	-11.55/-6.74	-7.82/-9.67	-2.29/-0.75	-1.01/-3.59	-7.66/-7.98	-6.27/-6.95
θ(60°)	-5.30/-1.76	1.55/2.86	3.16/2.58	2.27/3.66	2.92/2.82	1.35/-1.54	-1.38/-2.49	-1.02/0.47	-4.44/-1.11	2.43/2.72	3.23/-1.82	0.04/-1.67	3.67/2.28	1.08/-1.09	0.55/-0.33	-0.77/0.22	-1.90/-2.44	-1.57/-1.65	-4.13/-1.62	-3.28/-8.88	-3.42/-1.88	-2.23/-3.25	-7.95/-15.27	-9.58/-9.62
θ(67.5°)	-1.77/-3.51	-1.16/0.79	1.46/-1.90	3.04/2.93	1.53/-1.89	-0.60/-6.11	-4.89/-3.87	-2.04/-0.68	-4.36/-1.40	1.31/4.23	3.00/0.60	0.36/2.51	3.35/-1.99	1.55/-0.07	0.85/0.36	-0.73/-0.46	-3.59/-5.79	-0.16/0.78	-0.76/-2.44	2.06/-0.25	2.04/-1.59	1.00/-0.06	-1.77/-2.16	-2.01/-2.79
θ(75°)	-0.09/-3.29	-3.53/-1.25	0.63/0.86	1.66/-1.71	2.56/-0.80	-2.01/-1.76	-2.69/-2.99	-1.82/-1.65	-4.21/-1.97	0.33/-1.87	2.24/0.29	-0.92/-1.23	2.36/-1.94	1.25/-0.35	0.72/0.40	-2.32/-0.76	-2.74/-8.28	0.49/2.45	0.65/2.37	4.12/2.89	-0.53/0.73	2.92/2.29	0.14/0.43	0.49/-1.90
θ(82.5°)	-0.38/-3.32	-3.79/-3.40	-1.01/-0.70	-1.70/-0.26	2.23/-5.42	-1.29/-0.62	-2.74/-4.03	-2.67/-3.15	-5.86/-2.38	-0.93/-1.14	1.08/-0.74	-0.62/0.86	1.56/-1.17	0.73/-0.12	-0.46/0.53	-4.23/-1.45	-4.06/-4.65	1.02/0.86	1.95/2.61	3.75/3.08	0.68/2.52	4.08/2.85	-0.72/-0.65	-0.33/-0.44
θ(90°)	-2.35/-4.06	-4.65/-5.72	-3.71/-1.74	-2.39/-5.00	-2.21/-5.61	-2.61/-2.81	-3.56/-2.73	-5.40/-4.18	-6.87/-3.91	-2.98/0.04	0.64/-1.31	-1.46/-0.46	-0.17/0.37	-0.59/-0.47	-0.20/-0.35	-5.00/-3.04	-4.06/-5.56	-2.48/-8.77	1.16/-0.44	1.53/-1.79	0.68/2.60	3.13/-1.68	-1.58/-0.22	0.09/-3.41
θ(97.5°)	-2.93/-5.36	-7.10/-8.69	-8.02/-6.47	-3.68/-6.63	-1.82/-6.68	-5.18/-6.21	-5.43/-5.32	-6.81/-6.26	-7.32/-4.61	-3.32/-0.90	-0.52/-3.19	-2.77/-1.71	-1.59/-1.45	-1.91/-1.32	-3.70/-2.47	-4.58/-4.42	-8.39/-5.77	-3.79/-1.72	-1.80/-3.60	-0.94/-1.39	-4.05/0.13	1.04/-0.92	-4.41/-1.99	-1.07/-4.62
θ(105°)	-5.32/-8.74	-6.61/-8.51	-12.05/-10.27	-6.09/-9.00	-4.81/-5.43	-7.05/-9.19	-6.64/-6.27	-8.95/-9.56	-10.03/-9.79	-4.31/-2.34	-1.55/-4.48	-4.57/-2.98	-1.73/-1.85	-1.17/-6.21	-4.34/-4.18	-6.23/-5.63	-6.31/-6.87	-3.28/-2.30	-3.88/-6.59	-2.89/-2.50	-5.45/-2.43	-1.17/-2.40	-5.61/-1.67	-1.89/-8.29
θ(112.5°)	-7.47/-11.52	-9.10/-8.56	-5.97/-8.08																					

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



