



Radiated Composite Gain Data_5G6G

Appendix D

Θ(22.5°)	4.69/-5.77	-7.7/-9.18	-10.71/-12.57	-13.43/-8.62	-5.88/-5.44	-4.98/-6.27	-7.89/-7.66	-5.54/-5.54	-8.23/-9.1	-7.36/-4.42	-2.91/-3.65	-5.06/-8.6	-9.95/-10.92	-10.57/-9.15	-7.18/-7.31	-8.56/-8.65	-9.51/-7.78	-7.72/-9.23	-13.09/-9.24	-7.68/-6.06	-7.01/-7.32	-6.45/-6.09	-7.24/-5.94	-5.41/-4.57
Θ(30°)	4.85/-5.38	-5.82/-7.44	-10.56/-8.46	-7.34/-9.3	-9.49/-6.62	-5.44/-5.96	-8.31/-8.1	-9.99/-14.46	-9.88/-9.51	-8.04/-6.32	-5.86/-6.1	-8.12/-17	-10.53/-10.67	-11/-10	-9.84/-9.56	-6.03/-5.05	-5.66/-5.69	-7.26/-8.62	-10.55/-9.56	-8.23/-47	-7.81/-10.03	-10.6/-6.51	-8.12/-9.74	-7.55/-6.54
Θ(142.5°)	-6.55/-4.74	-5.32/-7.41	-6.83/-5.11	-6.88/-7.65	-13.59/-9.69	-7.61/-10.27	-9.75/-8.48	-10.43/-6.75	-6.25/-5.79	-5.37/-5.47	-7.3/-6.13	-6.49/-5.87	-8.17/-11.6	-9.15/-8.76	-6.52/-10.05	-6.30/-5.55	-5.18/-5.71	-6.68/-12.69	-8.87/-6.93	-9.65/-9.95	-6.27/-4.39	-8.16/-5.33	-6.15/-7.78	-6.32/-6.16
Θ(45°)	-5.39/-2.93	-3.97/-9.98	-5.14/-3.47	-4.64/-5.48	-6.72/-8.07	-6.61/-8.33	-10.45/-11.1	-10.59/-8.35	-6.46/-2.69	-2.98/-3.55	-7.39/-6.37	-7.06/-6.22	-9.45/-14.67	-10.39/-9.45	-6.1/-9.29	-14.87/-10.14	-5.85/-5.03	-4.42/-7.66	-8.33/-6.81	-6.28/-7.99	-6.87/-7	-8.24/-5.28	-6.21/-7.22	-8.7/-6.46
Θ(52.5°)	-2.71/-1.43	-2.62/-6.8	-6.32/-4.21	-4.64/-3.31	-3.82/-6.37	-7.5/-8.68	-11.26/-6.16	-12.18/-11.05	-8.31/-2.34	-1.92/-3.38	-2.84/-3.33	-5.79/-8.51	-8.49/-9.34	-9.96/-12.62	-7.24/-10.41	-12.55/-10.7	-4.72/-1.47	-3.63/-7.74	-8.26/-6.27	-4.12/-3.97	-7.17/-8.77	-6.05/-6.3	-6.76/-8.02	-5.52/-4.92
Θ(60°)	-2.71/-1.69	-2.33/-7.44	-7.15/-4.63	-3.63/-3.14	-4.36/-7.38	-10.53/-8.7	-11.23/-15.83	-15.29/-14.21	-8.95/-6.37	-4.53/-4.44	-2.14/-0.74	-2.91/-4.33	-7.59/-4.82	-6.92/-11.81	-6.53/-10.21	-12.79/-12.56	-7.12/-4.29	-2.64/-6.36	-4.4/-6.19	-3.35/-4.4	-9.07/-5.49	-5.37/-7.09	-6.71/-5.96	-6.41/-5.58
Θ(67.5°)	-4.7/-3.51	-3.37/-7.3	-9.26/-7.99	-5.27/-5.12	-5.83/-9.01	-9.41/-11.03	-14/-11.18	-11.75/-10.52	-7.37/-6.75	-4.99/-5.79	-2.59/-3.54	-2.29/-2.13	-5.34/-6.41	-6.99/-9.38	-8.19/-10.95	-9.36/-15.19	-5.4/-5.82	-4.93/-6.39	-5.38/-6.59	-4.62/-7.97	-5.08/-5.3	-6.78/-7.11	-3.67/-6.57	-6.71/-7.04
Θ(75°)	-4.13/-3.62	-4.94/-9.71	-9.93/-9.47	-6.12/-6.02	-7.2/-12.34	-13.4/-12.76	-11.99/-13.98	-6.71/-5.8	-7.77/-7.07	-10/-5.11	-6.4/-3.22	-4.47/-2.71	-3.74/-5.23	-7.39/-5.86	-6.8/-6.64	-9.43/-12.1	-6.81/-4.98	-5.33/-4.58	-3.8/-6.93	-4.32/-7.56	-3.45/-4.37	-6.37/-7.26	-3.09/-7.08	-7.48/-5.88
Θ(82.5°)	-3.24/-5.43	-6.62/-8.77	-10.33/-9.57	-10.06/-10.44	-7.79/-13.48	-15.29/-11.55	-10.37/-12.47	-10.33/-5.93	-7.2/-7.56	-7.85/-7.48	-5.31/-3.17	-3.53/-3.53	-3.14/-4.16	-6.08/-4.19	-7.39/-6.74	-9.04/-10.98	-6.3/-2.42	-5.06/-4.34	-2.5/-8.73	-4.41/-6.62	-3.72/-2.65	-8.62/-6.93	-4.85/-7.91	-6.47/-1.18
Θ(90°)	-3.27/-5.37	-6.78/-8.32	-10.87/-9.5	-8.68/-9.58	-9.17/-11.42	-14.94/-11.36	-9.45/-11.4	-10.01/-7.97	-4.32/-7.45	-7.35/-6.01	-6.12/-2.23	-3.1/-4.22	-3.24/-4.17	-6.05/-3.7	-8.38/-7.45	-6.8/-8.91	-5.58/-2.31	-4.42/-3.11	-4.81/-7.04	-4.37/-5.78	-4.54/-4.4	-6.47/-6.01	-4.92/-9.01	-6.26/-6.35
Θ(97.5°)	-3.71/-7.29	-9.2/-9.05	-10.28/-8.86	-8.15/-8.84	-7.69/-11.86	-13.27/-12.63	-9.15/-10.38	-8.75/-9.63	-6.66/-6.74	-9.77/-6.1	-6.32/-2.79	-2.25/-3.21	-4.27/-2.32	-6.9/-8.33	-7.12/-8.63	-5.49/-7.27	-6.92/-3.16	-6.51/-5.35	-4.14/-10.86	-9.64/-4.49	-3.5/-4.39	-5.68/-6.63	-6.34/-8.55	-5.11/-6.75
Θ(105°)	-4.56/-8.1	-9.28/-8.41	-10.2/-7.8	-6.86/-8.61	-8.62/-14.86	-13.68/-11.42	-9.29/-11.48	-8.45/-7.86	-6.74/-6.67	-8.5/-8.69	-4.61/-2.21	-7.21/-2.93	-4.45/-5.12	-11.38/-8.79	-7.89/-6.6	-5.3/-8.56	-7.23/-5.03	-7.21/-11.27	-8.71/-5.55	-4.81/-4.86	-5.61/-7.26	-5.9/-9.69	-5.48/-6.88	
Θ(112.5°)	-6.15/-7.53	-7.5/-10.09	-8.43/-7.47	-6.1/-8.61	-9.73/-12.04	-14.12/-10.97	-8.62/-10.23	-7.28/-10.02	-8.26/-6.73	-8.68/-7.05	-6.89/-4.75	-5.9/-3.07	-6.71/-5.3	-7.33/-5.2	-14.07/-6.63	-4.94/-9.31	-12.5/-8.92	-12/-5.65	-7.97/-10.75	-9.39/-5.29	-3.52/-4.47	-5.28/-7.33	-7.98/-7.43	-5.35/-7.62
Θ(120°)	-4.86/-8.5	-7.91/-6.83	-8.43/-8.63	-6.55/-9.67	-11.3/-10.13	-13.43/-11.07	-6.48/-8.35	-7.26/-9.14	-8.88/-6.66	-7.76/-6.8	-6.44/-8.55	-6.98/-9.67	-5.98/-5.46	-9.15/-10.5	-12.63/-7.96	-9.8/-9.14	-10.18/-8.71	-14.84/-10.04	-8.94/-12.2	-6.8/-6.19	-5.08/-3.81	-7.95/-6.16	-7.03/-6.83	-6.63/-6.93
Θ(127.5°)	-6.28/-8.09	-6.71/-8.75	-8.58/-10.67	-7.39/-9.01	-9.6/-8.43	-12.8/-12.65	-8.38/-7.37	-8.83/-10.82	-7.49/-6.41	-4.79/-6	-5.87/-5.04	-7.67/-10.69	-10.66/-10.78	-11.89/-5.95	-6.58/-9.81	-10.17/-12.47	-15.11/-10.15	-4.99/-7.84	-5.82/-7.59	-8.12/-9.23	-7.72/-8.29	-7.41/-5.72	-6.73/-6.63	
Θ(135°)	-5.27/-8.02	-7.3/-8.84	-8.66/-10.26	-10.53/-10.21	-7.91/-8.91	-11.44/-10.67	-11.74/-10.42	-7.48/-6.03	-5.25/-8.56	-2.62/-4.06	-9.89/-3.72	-6.44/-6.67	-6.63/-7.19	-7.4/-6.53	-9.44/-5.05	-7.87/-14.94	-10.04/-8.4	-8.39/-10.51	-8.07/-10.44	-6.54/-10.32	-7.62/-5.86	-10.35/-8.33	-4.53/-4.26	-5.77/-6.6
Θ(142.5°)	-5.35/-6.8	-9.28/-9.55	-14.77/-11.34	-9.12/-8.84	-9.66/-12.77	-13.86/-13.3	-11.95/-8.45	-6.56/-6.11	-6.21/-9.01	-6.78/-4.24	-6.07/-8.7	-7.42/-5.93	-7.41/-6.82	-5.73/-6.85	-11.91/-14.38	-15.77/-15.88	-13.42/-11.98	-9.13/-10.72	-10.49/-10.87	-5.62/-6.39	-10.37/-9.7	-7.73/-8.46	-5.43/-7.41	-7.04/-5.88
Θ(150°)	-8.83/-9.78	-8.94/-9.56	-11.37/-11.67	-9.2/-9.11	-9.88/-12.02	-15.06/-14.97	-11.13/-10.43	-13.43/-10.4	-6.07/-7.1	-6.78/-7.87	-9.7/-4.4	-7.38/-7.29	-7.36/-8.47	-9.42/-11.97	-14.28/-15.53	-13.01/-9.48	-7.26/-11.57	-10.07/-7.22	-8.46/-9.92	-6.55/-9.21	-14.96/-10.44	-6.73/-8	-7.07/-7.18	-5.22/-6.58
Θ(157.5°)	-6.02/-9.56	-10.17/-9.98	-9.43/-8.33	-7.54/-5.38	-4.78/-6.3	-8.97/-12.52	-12.33/-10.82	-8.83/-8.03	-5.38/-7.44	-9.53/-8.06	-7.39/-8.35	-7.44/-7.21	-8.81/-13.54	-15.04/-13.72	-15.01/-15.14	-11/-11.34	-13.82/-13.34	-7.44/-5.7	-8.19/-9.27	-7.92/-10.01	-13.26/-8.41	-7.11/-8.85	-9.88/-7.87	-5.95/-5.25
Θ(165°)	-6.4/-6.19	-4.84/-5.7	-9.02/-8.37	-9.23/-7.65	-7.22/-9.07	-10.17/-10.59	-12.42/-12.09	-11.81/-12.07	-10.34/-11.36	-9.81/-9.42	-8.88/-7.8	-8.31/-8.43	-9.83/-13.3	-12.18/-9.77	-7.59/-7.71	-9.78/-10.36	-9.82/-7.91	-6.52/-8.35	-10.4/-8.23	-7.33/-6.45	-4.94/-5.01	-5.65/-5.22	-5.08/-5.74	-5.93/-6.3
Θ(172.5°)	-6.68/-7.17	-8.71/-9.29	-11.27/-11.84	-10.9/-9.84	-9.33/-10.3	-8.75/-7.9	-8.97/-10.76	-11.91/-12.2	-13.49/-13.24	-10.44/-11.22	-12.2/-10.98	-10.88/-10.64	-12.96/-14.42	-14.57/-14.75	-15.19/-14.75	-12.88/-11.42	-12.21/-13.45	-12.81/-11.81	-10.05/-7.78	-7.98/-7.91	-6.84/-6.95	-7.44/-6.17	-6.72/-5.94	-6.08/-6.52
Θ(180°)	-7.68/-7.51	-7.23/-8.39	-8.11/-8.75	-10.2/-12.99	-13.38/-13.9	-15.24/-14.89	-13.51/-14.73	-11.3/-10.36	-8.95/-8.74	-10.29/-14.47	-14.45/-11.08	-10.54/-11.87	-11.99/-9.71	-8.41/-8.66	-8.61/-8.07	-10.31/-10.13	-12.55/-12.49	-10.9/-11.57	-9.45/-9.58	-7.62/-7.51	-7.39/-7.33	-6.95/-6.49	-7.4/-6.94	-6.71/-7.34
Freq(Pol)	5.6GPol	Theta-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	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°)	-6.89/-6.13	-6.72/-6.5	-5.61/-6.02	-5.76/-4.71	-5.36/-4.38	-4.97/-5.25	-4.59/-5.55	-5.41/-6.34	-9.16/-10.36	-10.2/-11.04	-10.04/-9.24	-7.64/-5.89	-5.22/-4.55	-3.71/-3.54	-2.29/-2.32	-2.47/-1.67	-2.85/-2.82	-3.19/-4.66	-4.27/-5.58	-6.65/-6.6	-6.97/-6.96	-7.34/-7.71	-8.19/-7.27	-6.92/-7.03
Θ(7.5°)	-1.95/-1.88	-0.77/-0.75	-0.99/-0.66	-1.64/-2.42	-2.52/-3.45	-4.36/-5.89	-5.98/-7.1	-8.75/-7.85	-8.19/-7.96	-10.12/-5.19	-5.01/-5.14	-5.62/-5.52	-5.21/-5.32	-5.79/-5.73	-6.89/-7.13	-8.1/-8	-7.55/-9.17	-6.42/-7.5	-7.78/-7.28	-8.96/-8.93	-12.11/-10.84	-9.94/-9.93	-6.78/-5.64	-4.22/-2.65
Θ(15°)	-2.62/-2.12	-1.24/-1.33	-0.93/-0.65	-1.16/-1.7	-2.94/-3.95	-4.98/-6.19	-8.79/-9.99	-10.42/-12.05	-10.14/-8.05	-6.13/-7.53	-6.61/-6.82	-7.32/-7.19	-7.94/-8.25	-7.92/-7.77	-6.99/-6.62	-7.04/-8.48	-8.85/-9.19	-11.02/-12.3	-14.11/-13.15	-11.55/-9	-7.21/-6.66	-4.6/-4.3	-3.76/-2.99	
Θ(22.5°)	-0.37/0.1	-0.19/-0.42	-0.24/0.23	0.28/-0.48	-0.75/-1.6	-3.31/-4.53	-5.84/-6.78	-8.21/-9.09	-7.88/-6.06	-3.98/-3.21	-4.12/-3.25	-2.07/-2.23	-3.4/-3.99	-4.02/-4.1	-5.84/-9.84	-12.75/-10.42	-7.45/-6.62	-7.16/-7.82	-11.51/-11.39	-11.32/-8.07	-7.13/-6.42	-5.61/-4.44	-3.38/-2.52	-1.05/-0.5
Θ(30°)	-0.93/-0.95	-0.75/0.08	0.19/0.81	-1.43/-2.29	-0.84/0.29	-1.69/-1.82	-2.28/-3.55	-3.81/-2.5	-1.46/-1.62	-1.51/-1.22	-2.24/-0.69	-0.77/-0.21	-3/-2.76	-3.29/-5.5	-6.45/-4.18	-6.76/-9.31	-7.03/-6.83	-7.23/-9.3	-10.69/-9.99	-5.51/-2.54	-1.19/-0.36	-1.20/-0.98	-2.28/-4.39	-2.71/-1.47
Θ(37.5°)	0.21/0.45	1.71/2.65	2.33/1.32	0.6/0.63	0.26/-0.95	-3.04/-3.83	-2.18/-3.26	-1.26/0.19	0.57/-0.19	-0.54/0.41	0.32/0.84	-0.46/-2.55	-2.86/-1.37	-0.54/-1.42	-3.24/-3.35	-3.78/-3.65	-3.52/-2.73	-3.55/-3.57	-3.69/-4.56	-2.66/-0.18	0.57/0.65	-0.07/-1.31	-2.59/-3.06	-2.06/-0.46
Θ(45°)	1.08/1.48	2.41/2.57	2.44/0.93	-0.17/0.91	0.74/-0.98	-1.71/-5.51	-3.56/-1.95	0.35/0.15	0.03/0.15	0.07/2.3	1.81/2.1	2.33/2.2	2.07/2.76	2.49/1.67	0.59/-1.56	-1.14/-0.57	-2.04/-1.88	-0.59/-0.75	0.57/0.82	1.23/1.79	1.75/0.39	-0.9/-0.64	1/0.53	-1.08/0.14
Θ(52.5°)	2.55/2.56	1.81/2.01	3.41/2.18	1.79/1.48	-0.21/-1.63	-1.82/-1.12	-1.89/-1.89	0.51/2.28	-0.04/0.44	1.22/2.53	3.86/4.95	5.07/5.2	4.25/2.63	2.62/2.04	-1.29/-4.47	-1.79/-1.35	-4.91/-4.09	0.09/0.43	0.73/1.73	1.77/1.99	1.58/1.1	0.77/0.24	2.05/2.16	1.63/2.35
Θ(60°)	3.67/3.13	1.66/2.67	2.81/2.11	2.97/2.45	0.17/-0.66	0.49/1.48	1.27/-0.96	1.89/1.6	-0.61/1.44	2.43/3.6	4.46/5.36	4.74/3.6	2.25/-0.72	-0.32/1.08	1.16/-1.55	-3.81/-3.78	-7.83/-7.41	-1.11/0.36	-0.27/1.94	1.63/0.93	0.52/2.02	1.49/-1.05	2.43/3.96	3.72/3.44
Θ(67.5°)	3.91/3.9	2.54/1.97	0.81/0.72	1.28/1.66	1.86/-0.02	1.61/2.73	1.84/1.36	2.92/2.62	0.96/1.71	3.13/4.31	4.15/4.73	4.74/4.89	2.36/1.13	-1.79/-1.88	1.81/1.79	-1.34/-4.22	-4.99/-3.15	-1.99/0.58	1.56/-0.84	0.54/2.21	1.39/-1.37	2.35/3.98	3.21/3.98	
Θ(75°)	3.7/3.8	3.14/1.15	-1.67/0.13	0.25/0.79	1.66/-0.2	1.052/-47	2.05/1.86	2.93/2.81	2.38/2.13	2.65/3.54	4.14/4.43	5.25/6	4.63/4.26	1.49/-2.57	-0.04/2.62	0.25/-2.73	-2.06/-1.38	-0.61/0.77	0.62/1.3	0.33/-1.69	-1.17/1.3	0.73/-0.53	1.7/2.64	2.75/



Radiated Composite Gain Data_5G6G

Appendix D

Θ(67.5°)	-1.78/-4.02	-5.16/-5.92	-8.84/-9.4	-9.82/-6.38	-9.81/-7.51	-6.96/-11.15	-5.15/-5.98	-9.48/-4.58	-5.01/-8.4	-4.08/-4.89	-2.12/-3	-2.15/-3.17	-6.13/-5.46	-7.1/-7.86	-7.66/-11.48	-13.57/-7.68	-4.03/-4.99	-6.84/-4.76	-3.81/-6.48	-4.77/-3.45	-4.33/-5.17	-5.98/-2.89	-5.05/-5.26	-6.82/-1.83
Θ(75°)	-3.31/-4.19	-3.63/-6.49	-9.99/-11.32	-11.04/-7.76	-7.97/-11.59	-6.85/-10.77	-7.49/-9.98	-11.17/-6.16	-4.77/-6.2	-6.43/-6.45	-3.92/-3.86	-4.53/-2.02	-3.6/-7.96	-4.23/-5.05	-6.79/-13.09	-14.21/-10.75	-2.95/-5.64	-6.37/-4.13	-2.56/-5.65	-6.39/-3.52	-4.02/-3.99	-6.88/-5.83	-5.15/-4.98	-5.03/-1.69
Θ(82.5°)	-3.28/-4.15	-4.84/-7.03	-9.95/-10.63	-7.68/-8.24	-6.88/-9.24	-8.77/-10.79	-6.25/-11.85	-12.84/-7.15	-6.07/-4.65	-7.1/-6.5	-4.12/-2.83	-4.91/-4.19	-1.57/-8.44	-4.28/-2.12	-5.83/-12.36	-10.88/-10.55	-4.39/-7.44	-6.04/-3.87	-0.99/-4.8	-6.31/-2.3	-3.14/-5.29	-7.12/-5.06	-4.71/-6.81	-4.1/-1.4
Θ(90°)	-3.19/-5.14	-5.09/-7.95	-9.22/-11.59	-8.42/-8.16	-10.18/-8.97	-10.24/-14.53	-7.32/-9.76	-9.18/-7.61	-5.56/-5.99	-7.48/-7.02	-3.24/-3.09	-2.73/-4.39	-1.55/-5.13	-6.65/-2.64	-8.37/-9.98	-7.36/-7.47	-4/-6.2	-5.31/-3.39	-2.01/-3.92	-7.72/-2.63	-3.59/-5.34	-6.16/-5.95	-5.88/-4.41	-3.36/-1.52
Θ(97.5°)	-3.72/-5.98	-5.78/-6.88	-9.08/-11.18	-7.53/-7.5	-8.92/-14.21	-10.08/-10.88	-7.72/-10.36	-7.38/-8.52	-5.05/-5.57	-6.34/-9.63	-2.38/-1.65	-1.9/-2.68	-2.61/-4.85	-5.65/-3.65	-9.79/-10.1	-6.88/-5.68	-4.96/-9.05	-9.04/-5.95	-4.25/-4.74	-8.31/-2.09	-3.16/-7.36	-5.91/-6.02	-6.85/-4.89	-3.31/-2.31
Θ(105°)	-5.37/-5.75	-5.31/-6.01	-9.62/-10.57	-6.04/-6.97	-10.29/-12.5	-10.23/-11.04	-8.72/-12.52	-8.6/-8.88	-7.09/-7.53	-6.7/-6.72	-5.65/-3.34	-2.56/-4.61	-7.21/-6.03	-9.83/-9.79	-7.88/-6.48	-10.14/-6.77	-8.24/-7.17	-5/-6.37	-9.6/-5.26	-4.34/-6.91	-5.34/-6.78	-4.75/-3.07	-4.14/-3.16	
Θ(112.5°)	-5.96/-4.61	-6.94/-8.44	-7.17/-7.14	-6.54/-7.08	-10.39/-13.05	-9.09/-9.83	-9.87/-10.56	-13.44/-7.53	-10.18/-5.19	-4.91/-5.68	-6.9/-4.65	-2.18/-2.98	-5.37/-3.17	-8.75/-9.79	-12.11/-10.39	-3.76/-6.24	-12.88/-12.67	-6.67/-7.49	-4.15/-10.63	-6.48/-7.65	-5.06/-7.64	-6.43/-8.57	-4.82/-3.25	-5.77/-3.98
Θ(120°)	-6.36/-4.89	-7.4/-9.34	-8.02/-7.18	-5.74/-6.6	-12.43/-11.72	-10.23/-8.88	-9.55/-7.94	-11.97/-8.63	-8.47/-7.36	-3.8/-4.49	-8.41/-7.14	-5.21/-2.4	-7.67/-5.45	-8.11/-13.42	-11.15/-8.8	-5.13/-11.36	-7.42/-9.47	-12.69/-8.62	-7.45/-9.35	-12.43/-7.76	-4.56/-6.14	-6.55/-5.35	-5.16/-3.35	-4.91/-5.06
Θ(127.5°)	-6.53/-6.89	-8.49/-7.85	-8.5/-6.01	-6.59/-5.72	-12.15/-15.77	-11.62/-8.81	-13.97/-8.78	-11.17/-4.99	-5.01/-7.51	-6.31/-4.98	-8.14/-4.56	-7.94/-5.7	-5/-7.5	-11.92/-13.05	-12.8/-8.88	-8.11/-9.79	-9.88/-9.37	-8.66/-8.5	-5.43/-8.95	-8.5/-12.03	-4.71/-6.41	-7.5/-7.72	-4.01/-3.79	-4.21/-5.73
Θ(135°)	-8.71/-6.5	-7.54/-8.13	-5.66/-7.02	-6.44/-7.23	-10.32/-14.32	-10.72/-6.02	-9.51/-9.71	-6.52/-4.65	-9.2/-9.08	-6.68/-6.05	-7.52/-5.68	-6.06/-5.51	-7.92/-7.2	-15.07/-7.28	-8.49/-10.83	-9.89/-10.57	-10.99/-10.61	-12.22/-8.71	-7.82/-6.39	-6.89/-7.79	-7.27/-8.2	-6.05/-5.63	-4.09/-5.16	-4.19/-7.1
Θ(142.5°)	-10.61/-4.65	-5.09/-8.85	-7.08/-7.32	-5.13/-3.85	-8.86/-9.47	-14.91/-10.41	-7.21/-7.92	-9.6/-10.05	-9.62/-9	-9.03/-4.96	-3/-5.09	-7.34/-7.94	-6.51/-8.19	-9.96/-8.36	-5.71/-13.35	-12.22/-13.05	-10.19/-10.29	-11.61/-12.26	-10.02/-7.38	-9.47/-6.96	-10.11/-9.55	-9.36/-5.66	-5.83/-5.97	-3.14/-5.95
Θ(150°)	-8.65/-7.43	-5.79/-8.86	-8.35/-7.37	-7.03/-8.57	-8.7/-9.74	-10.15/-11.34	-15.02/-12.01	-7.32/-6.79	-5.66/-4.48	-5.5/-7.96	-7.64/-7.17	-6.11/-5.89	-5.83/-6.62	-9.36/-13.77	-10.69/-11.58	-9.72/-8.23	-10.15/-12.49	-9.38/-6.21	-6.94/-7.3	-9.29/-11.53	-12.38/-11.5	-8.97/-7.64	-5.72/-4.85	-2.94/-7.11
Θ(157.5°)	-6.92/-7.03	-7.78/-9.93	-9.93/-7.8	-5.84/-6.88	-10.45/-12.95	-12.23/-10.7	-11.42/-13.7	-7.33/-7.11	-7.5/-8.44	-12.66/-9.12	-6.67/-5.63	-7.83/-10.33	-10.26/-9.72	-14.27/-13.49	-8.23/-8.47	-8.37/-14.16	-13.92/-9.38	-8.93/-8.4	-9.12/-6.65	-6.95/-10.23	-10.55/-13.06	-9.28/-6.48	-5.27/-4.16	-5.67/-10.08
Θ(165°)	-10.33/-8.31	-6.98/-7.68	-8.75/-8.34	-7.77/-8.27	-6.82/-8.87	-10.56/-11.57	-11.78/-11.5	-8.2/-8.45	-7.88/-8.01	-6.45/-5.81	-5.67/-7.36	-10.4/-12.22	-11.33/-9.34	-10.65/-12.49	-14.95/-15.4	-11.21/-11.05	-9.59/-9.85	-11.52/-8.79	-6.59/-9.46	-5.1/-5.63	-5.98/-7.3	-12.76/-9.26	-6.16/-5.07	-6.06/-8.96
Θ(172.5°)	-7.84/-9.32	-11.32/-12.37	-12.72/-13.09	-12.66/-14.3	-13.17/-12.4	-10.92/-9.41	-7.78/-7.64	-7.84/-8.78	-7.76/-6.55	-6.99/-7.08	-8.06/-10.81	-13.01/-13.95	-11.15/-9.33	-10.61/-9.37	-7.74/-8.54	-7.55/-9.72	-12.02/-9.73	-8.93/-9.35	-7.24/-6.56	-6.09/-5.7	-6.26/-7.32	-6.71/-5.76	-5.2/-5.5	-5.81/-6.72
Θ(180°)	-6.99/-7.81	-8.69/-8.71	-9/-11.62	-11.72/-12.64	-14.29/-13.01	-12.36/-12.57	-11.28/-10.92	-11.18/-10.78	-12.21/-11.34	-12.03/-13.63	-13.91/-12.18	-11.83/-12.65	-14.29/-15.11	-14.3/-11.53	-9.8/-10.45	-9.99/-9.73	-11.85/-11.36	-11.98/-14.52	-14.04/-15.79	-13.26/-13.03	-10.53/-9.02	-8.14/-7.51	-7.68/-7.48	-7.38/-6.72
Freq(GHz)	6.175GPol.	ThetaL	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-5.52/-4.71	-4.56/-4.23	-3.35/-3.04	-2.78/-2.33	-2.78/-2.86	-3.07/-3.63	-5.3/-6.13	-7.5/-10.05	-10.98/-11.69	-10.44/-8.85	-7.9/-9.65	-5.69/-4.83	-5.04/-4.16	-3.58/-4.07	-3.06/-3.26	-3.28/-3.39	-4.6/-5.13	-5.83/-5.55	-7.95/-9.35	-11.97/-13.59	-14.92/-14.53	-12.86/-11.12	-10.29/-9.16	-7.52/-6.28
Θ(7.5°)	-7.86/-6.84	-6.3/-6.59	-5.4/-4.3	-4.16/-4.42	-4.01/-8.66	-6.88/-8.1	-9.46/-9.22	-11.12/-12.63	-13.05/-11.67	-11.71/-11.91	-9.57/-8.36	-8.09/-8.47	-7.07/-6.87	-6.07/-5.05	-4.55/-2.84	-2.22/-2.52	-2.08/-2.74	-3.65/-4.07	-7.91/-9.49	-10.92/-9.64	-8.77/-8.32	-7.96/-7.86	-7.58/-7.91	
Θ(15°)	-5.74/-8.9	-4.41/-3.33	-3.09/-2.95	-1.85/-1.73	-1.77/-1.16	-2.44/-5.56	-4.62/-6.9	-8.18/-9.8	-8.02/-9.25	-7.86/-5.12	-6.27/-4.76	-5.66/-5.01	-4.62/-4.42	-3.34/-3.39	-4.99/-4.22	-4.23/-3	-2.37/-4.6	-1.96/-1.53	-1.51/-1.43	-1.57/-1.67	-1.24/-1.77	-0.88/-1.84	-0.61/-2.41	-0.18/-0.7
Θ(22.5°)	-5.8/-6.23	-5.15/-4.34	-3.49/-2.88	-2.92/-3.75	-2.84/-1.12	-1.11/-1.55	-3.45/-5.8	-6.43/-5.92	-6.26/-7.98	-6.41/-3.9	-2.46/-2.48	-3.06/-2.83	-3.27/-3.93	-5.61/-8.37	-10.74/-8.24	-4.66/-4.61	-5.18/-6.54	-7.83/-8.15	-7.55/-6.05	-4.2/-2.63	-2.44/-2.16	-2.51/-3.75	-4.51/-5.52	-5.2/-5.6
Θ(30°)	-2.46/-2.53	-2.43/-1.53	0.090/-6	-1.01/-0.59	-2.6/-6.2	-4.21/-4.67	-3.45/-1.3	-4.73/-6.8	-3.64/-4.22	-1.37/-0.29	-0.72/-0.8	-0.49/-0.78	-2.7/-5.01	-3.23/-1.4	-2.22/-7.15	-10.13/-55	-8.29/-6.36	-6.48/-5.4	-4.14/-0.7	1.63/-1.59	-0.85/-6.4	-6.98/-4.53	-1.87/-3.03	-0.27/-1.21
Θ(37.5°)	-0.13/-0.03	-0.54/-0.63	0.320/-24	-0.89/-8.85	-3.57/-4.25	-4.25/-6.97	-6.21/-5.21	-3.16/-9.2	-1.61/-9.2	-0.41/-0.67	0.170/-38	0.770/-75	-0.74/-2.41	-2.24/-66	-4.34/-3.39	-4.99/-4.22	-10.2/-7.65	-4.23/-3	-2.37/-4.6	1.96/-0.4	-2.68/-2.29	-1.01/-0.21	0.371/-04	0.18/-0.7
Θ(45°)	2.15/-1.41	1.070/-6	0.592/-7.8	2.58/-1.62	-3.24/-1.65	-0.330/-0.4	-1.05/-0.4	-4.06/-1.69	0.73/-1.83	-0.57/-0.27	-0.13/-1.56	1.05/-0.58	-1.14/-1.03	-0.280/-85	1.81/-1.59	-0.42/-0.85	-2.39/-2.14	-1.60/-37	1.633/-36	2.47/-0.78	-0.57/-0.75	-1.28/-1.04	1.872/-98	2.842/-79
Θ(52.5°)	23.25	3.580/-75	-0.810/-0.2	0.730/-95	-0.49/-0.25	-0.55/-0.02	1.45/-0.61	-0.11/-1.03	0.31/-0.17	0.31/-96	2.794/-11	5.144/-4	3.792/-19	2.071/-25	1.231/-85	0.411/-0.6	-0.77/-1.9	-1.62/-1.21	3.043/-61	2.31/-44	0.022/-2.79	-0.162/-89	4.113/-53	3.012/-32
Θ(60°)	3.444/-38	3.811/-01	0.550/-68	1.981/-06	-0.660/-21	1.359/-0.9	-0.139/-0.79	-1.61/-62	0.370/-21	-0.162/-71	54/-63	5.337/-74	2.21/-1.21	-0.10/-14	-1.26/-1.56	-0.470/-38	-0.55/-2.17	-2.340/-32	0.442/-01	1.081/-84	-1.11/-1.81	-0.413/-86	4.834/-82	3.013/-75
Θ(67.5°)	4.143/-93	2.81/-75	1.83/-1.66	2.50/-91	1.161/-22	0.95/-0.9	0.720/-59	-0.58/-0.09	0.070/-63	1.194/-04	4.815/-02	4.433/-03	2.45/-1.35	-3.260/-69	1.9/-2	-1.18/-1.55	-5.36/-3.61	-2.42/-0.27	0.471/-69	0.820/-31	0.48/-0.04	1.793/-46	4.365/-46	2.443/-51
Θ(75°)	3.753/-23	2.671/-57	2.22/-48	1.061/-1	2.622/-56	0.710/-27	-1.07/-0.25	-0.03/-0.21	0.66/-0.22	2.264/-92	3.895/-12	5.435/-26	5.092/-82	1.21/-1.16	2.03/-0.93	1.39/-2	-6.21/-1.7	-0.661/-21	2.182/-75	0.04/-0.34	0.83/-0.22	1.512/-49	3.785/-18	1.033/-31
Θ(82.5°)	3.563/-12	2.991/-92	2.341/-68	0.691/-66	3.392/-64	0.54/-0.28	0.050/-35	-0.30/-76	1.571/-52	3.174/-03	2.974/-94	5.795/-82	4.542/-85	2.28/-0.54	0.010/-48	1.921/-138	-3.340/-6	0.882/-45	3.753/-4	-0.771/-1.84	-0.970/-84	1.681/-88	2.324/-03	0.113/-45
Θ(90°)	3.512/-85	2.421/-49	1.641/-36	0.310/-94	2.942/-88	0.840/-13	0.540/-63	-0.090/-63	0.81/-2.39	1.62/-23	2.093/-5	5.134/-89	2.760/-86	1.53/-2.49	-3.960/-82	2.031/-46	-2.741/-23	1.312/-3	3.993/-52	-2.72/-2.84	-2.09/-1.44	1.060/-67	0.842/-88	0.012/-92
Θ(97.5°)	2.622/-45	1.20/-64	0.980/-57	-0.610/-76	2.182/-33	0.290/-05	0.140/-65	-0.58/-0.4	0.34/-3.37	0.38/-0.23	0.770/-93	2.882/-39	0.380/-37	-0.71/-2.76	-6.25/-0.25	1.160/-02	-5.83/-0.76	-0.060/-35	2.521/-05	-6.13/-5.73	-3.37/-2.43	0.150/-3	0.330/-73	-0.812/-05
Θ(105°)	1.071/-56	0.230/-26	0.221/-1.01	-1.75/-0.04	0.44/-1.06	-0.15/-1.45	-1.4/-0.16	-1.14/-0.18	-0.48/-3.18	-1.19/-1.97	0.34/-1.46	1.160/-4	-0.510/-29	-0.32/-0.07	-3.88/-2.57	-3.68/-2.57	-7.18/-8.1	-4.29/-6.08	-2.52/-5.88	-7.43/-6.75	-3.98/-2.21	-0.77/-0.02	-0.89/-1.01	-1.910/-72
Θ(112.5°)	-2.85/-0.49	-1.52/-0.24	0.171/-1.13	-1.61/-1.42	-1.52/-0.14	-0.87/-1.75	-2.94/-1.35	-1.03/-1.67	-1.72/-5.32	-3.29/-3.53	-1.06/-4.13	-2.88/-0.21	-3.67/-2.28	-3.69/-2.24	-4.42/-3.43	-3.86/-4.96	-4.76/-9.46	-10.64/-57	-10.76/-8.32	-9.84/-4.39	-3.29/-7.14	-1.55/-1.2	-2.12/-2.15	-2.370/-0.71
Θ(120°)	-5.5/-3.55	-3.12/-1.6	-1.01/-2.61	-3.19/-1.82	-2.38/-2.38	-2.37/-2.34	-3.35/-3.86	-2.34/-4.74	-2.24/-5.3	-4.61/-3.08	-1.54/-7.92	-4.77/-3.9	-11.83/-4.77	-4.09/-5.25	-4.84/-5.37	-7.82/-12.29	-0.86/-6.39	-4.44/-4.21	-6.13/-7.37	-10.74/-4	-1.34/-6.17	-3.14/-2.21	-3.05/-2.84	-2.57/-1.82
Θ(127.5°)	-5.63/-4.19	-2.95/-3.04	-4.51/-2.28	-2.19/-1.42	-0.09/-2.41	-3.85/-3.63	-4.17/-5.11	-3.24/-4.61																



Radiated Composite Gain Data_5G6G

Appendix D

θ(120°)	-5.89/-6.2	-8.91/-7.52	-9.62/-9.48	-10.21/-11.95	-8.12/-12.42	-13.81/-9.77	-8.61/-6.06	-7.05/-7.41	-6.86/-10.54	-6.48/-4.87	-7.08/-6	-8.24/-4.71	-5.32/-12.14	-9.66/-12.52	-12.13/-8.87	-7.45/-12.83	-6.5/-10.53	-11.65/-7.68	-7.03/-7.8	-13.8/-8.19	-4.19/-10.56	-3.24/-4.64	-3.73/-5.56	-5.19/-7.17	
θ(127.5°)	-6.91/-9.01	-9.58/-8.48	-10.71/-10.48	-9.75/-10.55	-9.48/-12.62	-12.82/-11.65	-10.01/-7.08	-6.83/-9.09	-4.54/-8.34	-5/-7.31	-4.32/-4.94	-8.68/-5.05	-5.75/-9.61	-15.64/-9.15	-10.5/-10.3	-11.71/-11.53	-10.88/-10.23	-15.52/-9.49	-8.26/-10.48	-15.67/-8.7	-8.88/-4.36	-1.79/-3.44	-4.01/-6.71	-6.74/-8.69	
θ(135°)	-9.51/-12.88	-11.32/-9.9	-12.48/-12.9	-10.17/-9.93	-10.97/-12.96	-15.04/-15.42	-9.11/-11.37	-9.25/-9.56	-6.51/-3.82	-5.67/-7.52	-6/-4.92	-7.37/-4.26	-6.9/-7.9	-7.47/-8.43	-8.86/-11.99	-11.82/-8.79	-8.45/-14.86	-15.83/-14.96	-10.68/-7.97	-11.85/-10.39	-8.11/-2.94	-3.46/-6.75	-7.84/-6.81	-8.38/-8.54	
θ(142.5°)	-9.11/-12.83	-9.21/-9.32	-11.5/-10.66	-8.82/-10.11	-10.4/-9.95	-10.82/-11.43	-12.63/-8.53	-8.87/-9.93	-6.54/-6.23	-4.52/-7.64	-7.17/-7.88	-7.87/-10.01	-9.92/-8.04	-10.54/-12.49	-15.18/-13.7	-14.78/-12.65	-12.9/-14.26	-10.28/-12.41	-11.27/-9.66	-10.01/-8.82	-5.95/-5.67	-9.37/-4.52	-7.14/-5.94	-5.89/-10.01	
θ(150°)	-8.72/-7.64	-10.39/-8.61	-8.77/-10.91	-9.94/-11.29	-14.16/-11.46	-10.87/-11.36	-11.17/-11.76	-13.81/-14.9	-14.49/-10.52	-6.32/-6.06	-6.16/-11.09	-6.07/-6.18	-11.27/-51.5	-8.88/-8.89	-10.35/-14.73	-13.77/-15.25	-11.41/-14.08	-9.89/-7.39	-9.71/-6.63	-9.75/-9.71	-10.81/-10.87	-12.93/-8.19	-7.5/-5.32	-9.46/-9.32	
θ(157.5°)	-8.76/-10.52	-7.94/-6.82	-8.3/-11.68	-13.06/-10.93	-10.71/-12.93	-15.24/-14.05	-14.29/-15.53	-14.32/-11.43	-10.57/-11.56	-9.26/-9.26	-12.21/-7.42	-6.1/-7.06	-11.43/-9.76	-11.23/-12.82	-12.42/-13.58	-13.73/-14.18	-12.49/-12.75	-10.03/-8.46	-6.03/-7.39	-9.94/-11.52	-15.28/-12.49	-11.48/-9.9	-9.29/-7.88	-8.55/-7.67	
θ(165°)	-8.16/-10.31	-11.76/-10.42	-8.58/-8.42	-10.84/-11.53	-10.69/-11.94	-13.65/-14.71	-15.06/-15.65	-12.37/-10.58	-11.18/-11.38	-12.94/-11.12	-8.84/-8.42	-10.62/-12.77	-14.77/-13.86	-9.87/-9.41	-11.84/-14.5	-12.04/-12.65	-14.45/-14.41	-10.62/-7.79	-9.2/-9.49	-10.24/-9.38	-9.01/-6.72	-6.5/-6.46	-7.37/-8.77	-8.03/-7.29	
θ(172.5°)	-5.15/-5.27	-5.32/-4.92	-6.36/-6.99	-7.96/-9.83	-11.43/-12.46	-14.17/-12.32	-12.02/-11.89	-11.29/-10.77	-11.71/-14.32	-15.12/-15.24	-15.48/-15.3	-12.64/-10.42	-10.47/-11.6	-15.63/-15.85	-15.58/-15.18	-15.08/-15.07	-14.65/-11.25	-11.64/-13.39	-11.73/-11.51	-12.12/-11.22	-11.25/-9.35	-8/-7.5	-6.92/-6.24	-6.38/-5.98	
θ(180°)	-5.59/-5.38	-5.04/-7.27	-7.69/-7.7	-9.38/-10.25	-10.63/-11.91	-13.63/-11.89	-11.74/-11.43	-14.29/-12.55	-13.87/-15.05	-15.47/-15.22	-12.81/-11.29	-10.51/-10.07	-10.18/-9.56	-7.65/-6.91	-7.26/-7.56	-10.11/-9.81	-12.45/-12.37	-15.88/-14.85	-12.38/-10.43	-9.3/-8.52	-7.37/-6.4	-6.34/-5.81	-5.04/-4.5	-4.71/-4.52	
Freq(Hz)	6.895GPol.	ThetaI	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
θ(0°)	-5.34/-4.5	-4.19/-3.56	-3.1/-3	-2.9/-3.27	-4.89/-5.42	-6.22/-7.28	-9.15/-10.03	-11.82/-11.8	-10.96/-9.6	-8.16/-7.36	-6.38/-5.57	-5.13/-5.06	-4.61/-5.3	-5.77/-6.02	-6.58/-6.93	-8.24/-9.44	-10.16/-10.9	-11.98/-11.93	-10.6/-9.69	-9.06/-7.34	-6.12/-6.11				
θ(7.5°)	-9.57/-7.55	-6.01/-5.03	-4.95/-4.03	-3.16/-3.22	-3.44/-3.54	-4.07/-5.04	-5.76/-7.62	-9.13/-9.46	-10.68/-11.8	-11.15/-9.58	-8.51/-8.36	-7.45/-6	-5.16/-4.86	-3.17/-2.78	-2.88/-1.85	-1.78/-2.05	-2.26/-3.26	-3.69/-4.18	-5.31/-6.76	-8.08/-9.61	-10.8/-11.77	-13.27/-15.83	-15.1/-15.43	-13.89/-11.06	
θ(15°)	-12.96/-12.28	-9.08/-8.68	-9.12/-8.28	-7.88/-8.03	-6.67/-6.74	-3.71/-2.46	-2.62/-2.87	-4.2/-4.67	-5.91/-7.24	-8.42/-6.93	-5.67/-4.41	-4.24/-4.3	-4.56/-5.47	-6.84/-7.19	-9.58/-9.74	-10/-9.64	-6.39/-7.11	-5.01/-5.46	-5.68/-7.36	-6.51/-7.64	-8.92/-9.38	-15.03/-15.22	-14.71/-14.34		
θ(22.5°)	-9.19/-8.13	-5.66/-3.34	-2.59/-2.03	-2.12/-2.67	-3.18/-5.54	-6.16/-5.9	-3.82/-3.67	-4.19/-5.24	-8.34/-9.51	-6.48/-7.79	-8.18/-7.31	-6.97/-6.87	-6.26/-5.9	-6.3/-6.1	-4.32/-2.58	-1.89/-3.22	-5.05/-5.07	-6.83/-4.48	-4.88/-4.1	-4.73/-5.14	-8.06/-8.2	-6.54/-5.14	-5.31/-4.99	-6.78/-8.36	
θ(30°)	-2.18/-2.64	-2.09/-0.75	-0.53/-1.01	-3.3/-7.52	-9.4/-11.2	-7/-5.37	-4.86/-5.43	-5.9/-4.71	-4.19/-5.31	-5.27/-2.94	-1.81/-1.33	-0.93/-0.67	-0.26/-1.36	-4.02/-4.92	-6.39/-9.55	-3.88/-2.53	-2.61/-5.57	-6.91/-4.43	-2.74/-2.32	-3.57/-5.99	-4.38/-2.63	-2.82/-4.13	-4.11/-3.75	-4.41/-2.54	
θ(37.5°)	-2.45/-2.17	-1.73/-3.9	-4.22/-2.72	-1.75/-0.65	-0.58/-2.3	-1.91/-1.53	-2.86/-5.16	-6.34/-4.1	-1.4/-0.66	-0.12/-0.63	0.6/-0.1	-0.11/-2.46	-4.32/-3.52	-3.33/-5.59	-7.75/-4.92	-3.66/-4.26	-5.41/-3.76	-2.35/-1.79	-1.64/-0.74	-2.11/-2.98	-2.73/-2.04	0.89/-0.39	0.44/-0.77		
θ(45°)	1.34/-1.64	1.68/-0.23	-0.65/-2.27	-2.84/-2.74	-1.17/-0.8	-5.03/-0.93	-4.14/-1.67	-4.18/-2.52	-1.82/-0.9	1.15/-0.08	0.76/-0.53	-1.61/-3.31	-1.62/-1.14	0.02	0.09/-1.93	-1.99/-0.95	-2.03/-1.1	-0.78/-0.33	0.05/-0.13	-0.12/-2.42	-0.96/-1.75	1.06/-1.04	1.64/-0.9		
θ(52.5°)	1.46/-2.03	-1.09/-0.9	1.41/-1.17	1.32/-1.28	1.11/-0.42	-1.08/-0.24	-2.24/-1.13	-1.13/-6.64	-2.19/-2.5	-1.3/-0.98	1.63/-2.38	2.47/-2.74	2.17/-1.43	0.61/-6	2.142/-56	2.43/-1.67	1.23/-1.32	-1.28/-0.5	1.55/-1.6	1.66/-0.95	-0.46/-1.83	-0.11/-0.33	3.47/-2.36	2.77/-1.16	
θ(60°)	3.4/-05	2.33/-07	3.04/-2.93	0.21/-38	2.43/-23.3	1.81/-12	-0.68/-1.08	0.28/-11.9	0.73/-3.85	-0.93/-0.15	1.64/-35	4.35/-46	2.41/-29	0.00/-87	-0.37/-1.42	1.122/-44	1.72/-128	-1.15/-0.13	0.69/-0.43	2.15/-145	0.49/-1.59	0.13/-53	4.99/-17.7	1.88/-2.5	
θ(67.5°)	3.09/-3.99	2.26/-3.16	3.31/-3.14	-0.50/-27	1.99/-2.4	3.71/-23	1.44/-0.91	1.11/-1.38	-1.04/-29	1.11/-1.38	-1.04/-29	4.28/-18	3.74/-95	0.84/-3.23	-2.74/-91	3.31/-61	-0.52/-8.52	-1.29/-1.44	0.32/-0.13	2.11/-1.8	-0.5/-0.68	-1.09/-2.9	4.57/-2.7	2.86/-4.9	
θ(75°)	2.16/-3.73	1.61/-2.64	2.49/-2.11	-0.24/-0.38	0.57/-2.33	3.53/-2.15	-0.59/-0.73	1.77/-0.78	1.21/-0.43	-1.81/-1.6	5.23/-3.79	4.31/-42	3.66/-1.16	-1.29/-1.51	1.28/-1.3	-1.02/-2.09	-0.9/-2.45	-0.47/-1.06	2.63/-1.64	2.04/-0.92	-1.50/-4	-2.41/-1.97	4.63/-4.15	2.81/-2.51	
θ(82.5°)	1.71/-3.36	0.89/-1.92	1.44/-0.78	0.32/-0.4	0.37/-2.38	0.81/-1.43	0.18/-0.56	0.62/-1.54	10.21	-1.29/-1.69	5.36/-0.03	4.84/-23	4.63/-159	-1.16/-0.35	0.74/-0.69	1.99/-2.11	-0.35/-0.32	-1.06/-0.23	4.99/-2.22	2.09/-1	-1.83/-0.8	-3.66/-1.48	3.95/-3.59	2.03/-4.1	
θ(90°)	1.33/-2.56	-0.24/-1.03	-0.43/-0.02	-0.21/-0.62	-0.16/-1.01	0.11/-0.7	-0.77/-0.62	-0.07/-0.85	-0.16/-0.56	-0.62/-0.9	4.48/-2.69	4.46/-67	4.03/-73	-0.61/-1.82	-7.19/-1.05	2.88/-2.42	-0.84/-0.35	-1.63/-1.43	5.35/-2.54	1.11/-3.34	-3.02/-1.93	-3.46/-1.16	2.64/-2.72	0.37/-0.71	
θ(97.5°)	0.87/-1.66	-1.74/-0.31	-0.81/-1.35	-0.84/-1.21	-0.49/-1.36	-0.87/-0.79	-1.2/-1.72	-0.44/-0.47	-1.27/-1.06	0.16/-0.11	3.77/-2.26	3.26/-3.64	2.34/-0.87	-1.82/-2.93	-2.13/-1.13	2.16/-1.02	-0.19/-0.38	3.19/-1.28	-2.92/-7.68	-4.3/-3.18	-3.43/-0.64	0.88/-2.04	0.06/-0.01		
θ(105°)	0.15/-0.75	-1.98/-0.22	-1.53/-1.62	-1.25/-2.13	-1.15/-2.09	-2.38/-2.75	-1.88/-2.23	-1.56/-0.1	-2.49/-1.95	-0.71/-1.78	0.85/-0.71	0.24/-1.66	-0.13/-0.03	-1.37/-3.36	-4.67/-8.95	-1.54/-2.5	-9.23/-4.85	-4.62/-5.94	-4.53/-5.13	-10.76/-6.13	-5.68/-7.16	-3.02/-0.98	0.47/-1.62	-0.9/-1.71	
θ(112.5°)	-2.39/-1.93	-2.86/-2.24	-2.07/-2.95	-1.17/-2.66	-0.95/-1.53	-3.35/-3.5	-2.55/-2.38	-1.25/-0.69	-1/-1.3	-3.18/-3.05	-2.71/-1	-2.67/-1.03	-2.99/-4.41	-4.14/-3.17	-6.23/-6.53	-3.85/-6.25	-7/-2.27	-10.37/-9.49	-8.51/-13.99	-14.49/-9.03	-10.71/-4.01	-2.69/-0.1	-0.8/-0.24	-1.73/-3.11	
θ(120°)	-3.33/-5.16	-4.97/-5.55	-3.61/-4.04	-2.44/-1.7	-6.0/-0.93	-1.51/-0.39	-1.16/-3.35	-2.52/-1.7	-0.67/-0.14	-6.82/-0.33	-7.38/-2.93	-6.28/-6.4	-4.4/-4.43	-4.4/-5.33	-10.56/-11.61	-4.62/-5.56	-0.54/-4.39	-3.59/-8	-5.38/-8.87	-10.34/-7.89	-6.95/-6.89	-3.8/-0.99	-2.38/-1.93	-3.12/-6.65	
θ(127.5°)	-2.84/-3.94	-7.69/-9.14	-5.52/-5.55	-5.52/-1.83	-2.01/-1.73	-0.63/-1.4	-3.3/-4.13	-3.2/-0.98	-0.86/-3.04	-5.22/-1.73	-9.35/-3.17	-1.196/-5.57	-6.15/-3.66	-8.59/-6.62	-3.92/-14.41	-5.42/-5.29	-6.59/-4.99	-6.45/-7.16	-7.75/-4.75	-8.87/-11.26	-9.95/-3.54	-5.03/-2.19	-4.89/-1.32	-5.24/-2.62	
θ(135°)	-7.07/-5.85	-9.01/-10.64	-4.73/-2.75	-3.21/-4.7	-5.55/-4.2	-3.93/-1.94	-4.48/-3.97	-5.34/-5.97	-4.67/-2.81	-4.25/-7.28	-10.63/-8.19	-8.86/-9.16	-6.51/-4.22	-7.3/-12.05	-10.35/-10.73	-12.25/-4.04	-6.95/-3.49	-6.33/-6.63	-11.46/-12.05	-4.71/-10.26	-7.72/-4.33	-5.39/-3.9	-8.41/-4.4	-5.87/-6.05	
θ(142.5°)	-9.69/-8.54	-7.43/-6.74	-2.28/-3.33	-2.66/-4.3	-5.11/-6.23	-3.09/-1.19	-4.06/-8.14	-7.87/-5.4	-5.22/-2.98	-6.25/-8.42	-7.76/-13.97	-11.24/-12.81	-7.8/-6.83	-8.23/-5.43	-10.97/-8.82	-6.56/-8.17	-11.63/-13.08	-12.84/-12.23	-7.81/-12.95	-7.71/-8.35	-5.68/-6.76	-5.38/-6.92	-7.9/-6.94	-9.48/-8.54	
θ(150°)	-11.87/-9.54	-7.82/-5.11	-4.7/-4.7	-4.37/-3.54	-2.17/-3.84	-4.55/-4.17	-4.69/-6.51	-6.56/-7.71	-6.89/-6.01	-4.76/-6.7	-10.55/-8.1	-12.88/-13.75	-8.32/-9.06	-8.94/-8.53	-12.64/-8.99	-10.89/-14.53	-14.61/-7.93	-10.62/-11.9	-11.82/-14.31	-14.63/-10.96	-6.29/-8.09	-10.89/-9.7	-5.19/-7.52	-11.05/-13.71	
θ(157.5°)	-7.51/-5.26	-5.46/-4.78	-4.06/-3.8	-6.11/-6.39	-7.2/-6.55	-7.04/-5.67	-6.09/-7.16	-8.74/-13.68	-13.33/-9.4	-7.17/-8.79	-11.81/-10.33	-12.36/-11.37	-10.63/-12.94	-12.16/-10.8	-7.86/-10.56	-13.37/-9.32	-8.53/-13.9	-15.4/-14.7	-15.51/-15.22	-15.19/-15.74	-14.84/-14.85	-13.55/-11.56	-9.31/-11.19	-12.79/-10.34	
θ(165°)	-12.26/-12.7	-9.35/-7.39	-5.93/-5.2	-5.12/-6.22	-12.34/-9.31	-6.97/-8.95	-6.39/-6.53	-8.87/-6.06	-7.93/-9.83	-8.94/-11.98	-6.07/-2.33	-2.96/-6.78	-13.97/-9.65	-10.59/-9.25	-13.85/-11.6	-13.37/-11.45	-10.12/-11.61	-9.38/-6.09	-4.47/-1.57	-2.55/-2.76	-4.53/-4.28	-6.73/-6.38	-4.71/-7.63	-6.97/-9.55	-5.02/-4.37
θ(172.5°)	-12.12/-10.17	-8.75/-6.93	-5.53/-4.53	-4.02/-3.58	-3.69/-4.66	-6.21/-6.59	-7.23/-8.31	-8.77/-11	-12.13/-13.96	-12.67/-12.96	-13.1/-13.87	-13.84/-12.64	-12.12/-13.18	-13.36/-15.73	-14.59/-14.77	-15.93/-10.95	-9.17/-9.6	-9.22/-9.95	-9.66/-9.76	-8.71/-9.98	-9.86/-11	-11.1/-1.67	-14.19/-14.67	-15.38/-12.91	

Gain Result

Gain	5.2GPol	PhiAnt.1	Phi(0°)	Phi(15°)	Phi(30°)	Phi(45°)	Phi(60°)	Phi(75°)	Phi(90°)	Phi(105°)	Phi(120°)	Phi(135°)	Phi(150°)	Phi(165°)	Phi(180°)	Phi(195°)	Phi(210°)	Phi(225°)	Phi(240°)	Phi(255°)	Phi(270°)	Phi(285°)	Phi(300°)	Phi(315°)	Phi(330°)	Phi(345°)
0°	-12.45/-12.97	-13.73/-15.23	-16.75/-19.34	-18.57/-18.17	-19.21/-16.94	-17.53/-16.13	-13.63/-15.59	-13.73/-12.51	-14.3/-15.59	-15.6/-15.43	-16.68/-17.42	-16.46/-17.18	-15.37/-14.77	-15.52/-16.1	-17.47/-15.8	-16.62/-17.47	-17.51/-19.1	-18.77/-17.8	-18.48/-17.71	-17.93/-15.17	-14.42/-13.86	-12.48/-13.34	-12.28/-11.94	-12.9/-12.94		
0(7.5°)	-14.09/-14.17	-14.17/-13.66	-14.81/-15.81	-14.73/-16.47	-16.69/-16.47	-18.72/-10.82	-18.11/-17.2	-18.46/-16.03	-13.91/-15.04	-14.65/-12.21	-11.08/-10.52	-10.31/-11.81	-14.01/-15.29	-16.29/-18.72	-18.18/-15.15	-17.62/-16.97	-16.83/-17.63	-14.18/-13.49	-15.66/-13.31	-15.12/-16.17	-16.97/-17.25	-14.96/-16.69	-15.07/-19.47	-15.61/-13.91		
0(15°)	-11.44/-11.94	-13.21/-14.34	-17.89/-18.79	-17.68/-19.47	-18.4/-19.09	-19.35/-17.75	-18.31/-14.74	-18.68/-19.4	-18.22/-17.64	-15.84/-13.83	-13.68/-12.72	-10.53/-9.88	-10.88/-13.18	-17.46/-18.04	-18.84/-15.14	-16.02/-17.96	-16.99/-17.84	-17.85/-18.97	-17.59/-18.4	-19.16/-6	-18.27/-17.74	-19.2/-16.06	-13.18/-11.88	-12.04/-12		
0(22.5°)	-11.22/-12.48	-13.17/-16.32	-18.59/-17.86	-18.6/-18.42	-18.61/-17.89	-19.32/-18.74	-17.73/-16.43	-18.26/-18.75	-18.48/-14.18	-11.24/-11.54	-13.73/-17.77	-17.17/-13.17	-13.4/-16.8	-18.48/-18.87	-17.16/-14.02	-15.07/-18.13	-15.18/-18.28	-15.21/-17.69	-18.47/-17.39	-17.95/-15.77	-15.01/-16.81	-18.75/-13.91	-12.51/-11.87	-13.1/-12.86		
0(30°)	-16.2/-15.42	-18.55/-14.74	-18.1/-18.95	-17.21/-18.47	-18.36/-17.89	-18.63/-19.4	-18.42/-13.91	-12.48/-15.14	-15.87/-19.1	-12.28/-10.88	-12.95/-19.27	-18.88/-16.77	-18.83/-18.05	-15.63/-13.14	-16.04/-17.35	-18.72/-16.22	-15.79/-15.49	-13.58/-18.95	-18.16/-17.3	-18.85/-15.46	-11.22/-12.98	-14.99/-10.08	-8.95/-10.4	-16.51/-16.77		
0(37.5°)	-15.61/-12.91	-10.77/-13.15	-15.83/-14.81	-16.69/-17.07	-18.32/-18.74	-18.63/-18.83	-17.68/-16.62	-12.73/-12.6	-11.11/-10.75	-11.79/-14.34	-15.88/-14.63	-13.35/-12.08	-15.54/-19.1	-14.35/-17.7	-17.49/-17.63	-18.2/-18.26	-19.09/-19.27	-15.44/-17.7	-17.4/-17.1	-14.95/-16.16	-10.72/-11.08	-11.24/-10.09	-9.28/-11.35	-15.11/-16.77		
0(45°)	-11.6/-8.62	-8.08/-11.52	-13.56/-13.14	-16.15/-15.36	-17.24/-18.34	-18.45/-17.91	-17.98/-15.02	-15.13/-11.5	-12.76/-10.81	-11.5/-12.99	-15.78/-11.2	-7.95/-8.71	-13.73/-19.1	-13.45/-14.7	-11.91/-16.91	-10.86/-16.66	-17.37/-18.52	-16.48/-16.62	-18.54/-15.78	-10.86/-11.32	-12.58/-15.61	-8.88/-10.41	-10.61/-13.63	-12.07/-10.73		
0(52.5°)	-10.21/-14.74	-8.3/-10.36	-10.19/-12.61	-12.07/-12.08	-15.96/-18.17	-18.55/-17.91	-17.71/-12.45	-11.74/-8.41	-9.93/-12.01	-10.6/-83	-9.97/-11.65	-12.73/-16.76	-18.57/-18.89	-15.11/-19.51	-17.02/-14.53	-14.33/-18.88	-14.58/-17.48	-17.41/-15.11	-14.19/-97	-10.15/-80.3	-8.38/-13.39	-9.25/-12.02	-9.51/-7.84			
0(60°)	-9.03/-5.78	-7.22/-11.89	-10.83/-13.08	-11.41/-12.74	-14.61/-14.13	-18.38/-18.29	-14.05/-11.57	-11.38/-10.59	-8.6/-9.35	-10.45/-12.17	-9.02/-8.75	-7.6/-7.47	-10.38/-13.97	-15.26/-15.77	-18.29/-18.01	-13.01/-13.55	-10.74/-16.68	-14.75/-18.69	-14.89/-16.83	-14.97/-8.25	-9.11/-10.55	-8.17/-15.51	-7.88/-9.49	-9.38/-7.58		
0(67.5°)	-9.45/-6.13	-7.5/-9.68	-10.23/-12.36	-10.58/-12.35	-14.34/-15.29	-18.09/-17.68	-18.11/-13.51	-14.9/-9.96	-8.89/-10.89	-7.45/-11.77	-7.43/-5.41	-8.1/-6.73	-10.37/-10.76	-10.51/-13.7	-15.55/-18.84	-16.85/-13.6	-12.77/-17.61	-17.53/-17.47	-15.85/-13.98	-14.73/-12.63	-9.02/-12.07	-8.69/-15.45	-7.26/-9.27	-9.02/-8.89		
0(75°)	-9.51/-6.44	-9.67/-12.21	-12.80/-10.17	-11.67/-12.92	-12.15/-13.63	-17.27/-17.8	-18.54/-11.92	-12.8/-13.66	-9.85/-10.43	-9.05/-8	-5.5/-5.99	-5.95/-4.76	-6.38/-9.24	-7.62/-8.18	-14.17/-11	-16.87/-13.85	-13.05/-15.51	-18.92/-18.79	-13.43/-12.52	-12.83/-13.2	-9.12/-10.38	-10.78/-11.4	-7.28/-7.87	-10.56/-6.52		
0(82.5°)	-9.41/-8.11	-12.5/-10.6	-11.3/-9.78	-13.12/-10.55	-13.93/-14.59	-18.66/-16.66	-17.95/-10.92	-13.23/-12.51	-10.72/-13.79	-6.92/-8.73	-5.96/-4.14	-5.05/-5.61	-5.44/-6.05	-8.77/-9.4	-9.19/-13.45	-16.29/-14.77	-12.99/-11.81	-14.15/-15.2	-10.31/-10.12	-10.86/-18.72	-8.34/-11.9	-12.8/-10.24	-10.1/-10.41	-9.36/-9.1		
0(90°)	-8.58/-7.36	-11.16/-9.35	-9.91/-10.69	-16.72/-15.9	-13.17/-11.53	-18.33/-18.09	-16.94/-13.5	-10.51/-14.6	-9.14/-12.45	-8.51/-8.43	-4.75/-4.98	-4.91/-3.27	-6.77/-6.72	-5.33/-9.91	-8.27/-9.99	-12.59/-14.69	-11.29/-13.02	-10.75/-11.9	-12.88/-10.18	-9.87/-16.97	-7.57/-12.4	-12.18/-10.41	-9.05/-9.23	-9.51/-9.37		
0(97.5°)	-8.37/-9.5	-10.58/-7.1	-10.69/-10.09	-13.3/-13.63	-15.68/-13.98	-18.37/-18.44	-17.85/-12.36	-11.94/-10.74	-11.38/-10.18	-8.35/-8.37	-5.72/-3.35	-6.46/-4.48	-3.33/-6.53	-7.5/-7.49	-10.25/-13.75	-13.02/-15.78	-13.96/-14.06	-14.36/-9.69	-13.52/-10.41	-11.9/-13.7	-9.32/-12.01	-12.74/-8.84	-10.06/-9.3	-9.25/-9.36		
0(105°)	-7.67/-7.23	-8.54/-7.86	-9.24/-10.28	-13.71/-13.5	-16.72/-13.88	-18.16/-17.72	-17.9/-14.84	-10.15/-12.78	-9.8/-12.27	-7.79/-7.43	-5.7/-4.87	-3.65/-6.96	-6.24/-9.79	-8.29/-10.12	-9.62/-12.37	-12.97/-11.99	-14.56/-16.14	-14.39/-11.51	-17.89/-16.37	-11.66/-12.29	-8.96/-12.97	-11.14/-9.81	-5.79/-9.63	-8.44/-7.85		
0(112.5°)	-7.25/-7.29	-9.04/-7.23	-9.31/-11.56	-17.19/-18.75	-16.06/-15.76	-16.15/-18.22	-18.01/-13.45	-11.24/-10.58	-11.59/-10.12	-7.82/-9.43	-5.83/-4.71	-5.46/-4.98	-6.24/-8.92	-6.97/-14.02	-14.33/-14.56	-13.99/-11.79	-14.91/-16.31	-18.95/-13.27	-15.85/-15.72	-12.56/-12.99	-11.28/-10.88	-9.24/-8.98	-8.12/-9.87	-7.98/-7.74		
0(120°)	-7.93/-6.11	-8.01/-7.16	-10.65/-12.68	-18.04/-17.8	-18.29/-18.03	-15.44/-17.23	-18.1/-16.56	-13.28/-10.32	-10.75/-12.29	-7.07/-8.44	-9.68/-5.88	-7.33/-8.88	-6.97/-9.39	-14.22/-16.5	-19.22/-18.51	-14.66/-13.27	-13.05/-18.18	-18.05/-17.02	-18.94/-14.5	-11.82/-15.86	-12.52/-13.52	-8.62/-8.15	-8.42/-9.83	-6.79/-7.1		
0(127.5°)	-7.28/-5.99	-8.6/-7.55	-10.92/-13.98	-16.16/-17.77	-16.59/-18.52	-18.48/-19.19	-18.16/-19.3	-18.13/-12.8	-10.61/-10.16	-12.51/-6.43	-8.43/-8.88	-7.32/-10.13	-10.86/-16.75	-18.62/-17.22	-18.32/-18.66	-13.13/-15.17	-17.66/-19.35	-18.55/-17.72	-14.87/-13.98	-17.55/-10.65	-14.35/-11.86	-11.78/-13.1	-9.24/-10.16	-7.35/-7.42		
0(135°)	-8.72/-8.03	-8.44/-8.54	-10.36/-13.86	-16.02/-15.93	-16.42/-18.07	-18.56/-18.27	-18.02/-17.56	-18.78/-19.06	-14.42/-10.62	-9.68/-19.4	-10.06/-10.4	-10.64/-12.79	-12.29/-17.77	-10.88/-12.77	-18.11/-14.47	-18.55/-18.12	-17.89/-17.75	-18.05/-18.11	-15.18/-18.79	-10.91/-11.52	-15.04/-10.29	-10.83/-10.74	-7.96/-7.74			
0(142.5°)	-9.47/-8.53	-8.58/-10.02	-9.65/-12.32	-16.28/-15.84	-17.8/-18.14	-18.05/-18.13	-18.77/-17.24	-12.68/-11.06	-12.56/-17.42	-10.67/-7.75	-10.79/-10.87	-10.69/-8.95	-8.51/-5.51	-8.02/-15.94	-13/-18.99	-18.85/-16.24	-18.92/-18.74	-19.32/-17.76	-18.4/-14.54	-17.93/-18.17	-13.7/-17.28	-14.7/-12.66	-13.82/-10.95	-6.89/-9.26		
0(150°)	-7.25/-7.6	-10.72/-16.2	-10.94/-9.74	-12.31/-19.71	-16.61/-16.45	-18.05/-18.3	-18.54/-12.83	-17.81/-17.1	-12.12/-12.39	-13.39/-16.53	-12.66/-7.5	-6.85/-6.12	-7.78/-10.99	-16.17/-17.3	-19.28/-18.28	-17.42/-18.61	-14.34/-15.36	-15.45/-13.88	-16.66/-17.91	-18.05/-18.12	-15.41/-12.88	-12.81/-11.4	-8.58/-8.08			
0(157.5°)	-8.21/-8.49	-9.39/-8.89	-10.18/-12.33	-13.72/-17.2	-18.83/-18.59	-19.13/-18.08	-18.4/-17.59	-16.79/-15.9	-14.4/-13.42	-10.82/-8.6	-8.74/-10.36	-10.33/-11.09	-13.15/-17.78	-16.71/-7.5	-18.71/-19.3	-18.95/-17.86	-19.21/-18.65	-17.25/-14.09	-16.42/-15.58	-17.99/-17.88	-18.71/-14.55	-11.87/-11.65	-11.9/-10.43	-9.17/-8.68		
0(165°)	-8.71/-9.36	-8.72/-11.47	-14.49/-14.92	-16.38/-17.55	-18.3/-18.68	-19.13/-15.86	-15.31/-12.29	-10.92/-11.59	-11.03/-10.24	-9.03/-8.36	-8.49/-10.06	-11.78/-16.12	-17.86/-14.99	-11.82/-14.33	-17.82/-18.39	-18.59/-17.41	-18.34/-19.29	-18.11/-19.08	-18.96/-18.2	-18.76/-18.13	-18.91/-15.79	-14.14/-12.68	-10.22/-8.61	-8.13/-8.7		
0(172.5°)	-12.19/-11.51	-12.03/-11.73	-12.04/-12.7	-13.66/-16.07	-18.67/-18.67	-18.16/-18.45	-16.79/-15.65	-15.25/-12.47	-10.68/-19.97	-9.54/-9.84	-10.79/-12.56	-14.69/-17.76	-17.67/-17.47	-15.74/-16.51	-17.44/-15	-18.36/-18.44	-19.17/-16.02	-18.1/-18.59	-18.76/-18.53	-18.28/-15.79	-13.91/-12.45	-12.32/-12.59	-12.14/-12.23	-12.23/-12.67		
0(180°)	-14.38/-13.74	-15.53/-18.12	-17.91/-18.11	-13.84/-16.79	-17.96/-18.54	-19.22/-17.74	-16.57/-15.18	-13.14/-12.88	-13.68/-14.26	-16.17/-14.87	-16.17/-14.57	-14.79/-17.92	-17.89/-17.96	-17.85/-18.23	-18.36/-18.34	-19.06/-18.51	-19.47/-19.62	-18.75/-17.47	-18.3/-17	-15.36/-16.47	-13.33/-12.94	-13.79/-12.93	-12.81/-13.39	-13.94/-14.27		
5.6GPol	PhiAnt.1	Phi(0°)	Phi(15°)	Phi(30°)	Phi(45°)	Phi(60°)	Phi(75°)	Phi(90°)	Phi(105°)	Phi(120°)	Phi(135°)	Phi(150°)	Phi(165°)	Phi(180°)	Phi(195°)	Phi(210°)	Phi(225°)	Phi(240°)	Phi(255°)	Phi(270°)	Phi(285°)	Phi(300°)	Phi(315°)	Phi(330°)	Phi(345°)	
0°	-18.15/-16.7	-15.96/-15.41	-14.61/-14.16	-14.71/-12.55	-14.35/-15.41	-14.86/-18.22	-18.66/-18.54	-17.66/-17.42	-19.17/-17.52	-17.61/-18.11	-19.17/-18.19	-17.26/-17.37	-16.27/-15.9	-15.61/-14.23	-14.73/-14.15	-12.94/-14.5	-12.44/-14.5	-12.94/-12.57	-15.2/-11.11	-13.79/-13.19	-11.15/-12.97	-13.79/-13.89	-15.54/-15.39	-16.74/-18.18	-19.06/-18.6	
0(7.5°)	-17.43/-17.08	-14.73/-14.85	-14.42/-13.89	-14.14/-12.06	-12.08/-14.17	-11.68/-11.25	-11.94/-11.08	-10.88/-11.16	-11.37/-11.28	-13.4/-15.77	-16.03/-18.23	-17.57/-18.95	-18.14/-17.96	-18.06/-16.23	-15.37/-15.75	-14.78/-15.44	-17.76/-17.67	-18.39/-19.01	-18.79/-18.33	-17.61/-18.81	-18.08/-18.54	-17.16/-17.41	-18.02/-16.31	-15.3/-16.33		
0(15°)	-11.07/-10.25	-9.62/-9.76	-10.19/-12.29	-12.3/-16.63	-15.42/-17.08	-18.61/-15.23	-15.69/-13.49	-11.57/-11.49	-10.15/-10.46	-12.12/-16.4	-12.64/-12.79	-13.17/-14.42	-15.38/-17.85	-17.92/-18.67	-18.02/-18.61	-17.87/-18.03	-18.74/-18.06	-18.71/-18.93	-18.47/-18.06	-18.12/-10.97	-18.14/-18.7	-16.12/-10.95	-18.14/-18	-17.61/-14.87	-12.9/-11.63	
0(22.5°)	-7.77/-7.38	-8.21/-8.35	-8.79/-9.55	-10.25/-10.93	-10.87/-11.42	-14.61/-18.38	-10.57/-13.45	-11.88/-14.34	-6.71/-17	-8.62/-9.87	-12.62/-12.1	-12.97/-13.8	-13.59/-15.55	-14.54/-14.87	-17.4/-18.93	-17.48/-19.02	-18.66/-16.98	-15.45/-12.89	-13.09/-17.01	-16.73/-18.91	-18.03/-17.81	-18.19/-16.98	-14.71/-16.46	-9.81/-8.44		
0(30°)	-6.33/-6.61	-7.01/-6.85	-6.39/-6.94	-8.92/-10.67	-9.12/-7.31	-7.5/-7.96	-8.45/-9.94	-9.24/-9.42	-8.18/-7.6	-6.45/-6.37	-7.13/-8.97	-14.21/-14.54	-12.58/-11.53	-10.61/-12.73	-12.67/-10.92	-12.37/-15.47	-17.64/-18.47	-18.36/-14.5	-13.6/-16.16	-18.15/-18.05	-15.77/-11.99	-11.77/-11.69	-11.42/-9.25	-7.11/-6.91		
0(37.5°)	-5.44/-5.35	-5.03/-3.87	-3.62/-3.79	-4.18/-3.83	-3.67/-2.95	-3.32/-5.57	-5.26/-5.22	-4.41/-4.74	-6.71/-9.33	-8.61/-6.43	-4.67/-1.72	-11.76/-7.86	-5.62/-5.11	-5.48/-6.67	-7.83/-8.95	-9.29/-8.29	-7.79/-8.36	-10.26/-8.62	-7.22/-8.42	-12.84/-18.15	-17.26/-11					



Radiated Composite Gain Data_5G6G

Appendix D

Θ(22.5°)	-6.26/-9.1	-15.42/-19.31	-18.99/-17.51	-14.75/-17.28	-16.1/-16.51	-17.38/-19.29	-17.8/-16.46	-12.44/-10.42	-13.47/-19.07	-14.94/-9.71	-7.33/-9.38	-11.6/-17.76	-16.44/-15.75	-13.17/-14.43	-12.46/-14.82	-18.35/-17.6	-18.49/-16.44	-17.56/-15.52	-18.46/-13.65	-17.2/-14.84	-17.16/-15.1	-11.17/-9.06	-10.12/-7.37	-6/-5.13
Θ(30°)	-7.45/-9.83	-9.39/-12.31	-15.62/-11.94	-8.71/-9.03	-15.89/-17.73	-17.74/-15.87	-18.71/-18.65	-17.82/-16.58	-12.64/-18.58	-16.04/-13.48	-11.01/-9.7	-10.8/-16.46	-16.04/-17.32	-16.76/-13.69	-11.02/-11.4	-12.78/-14.7	-12.35/-11.36	-12.2/-12.87	-18.2/-17.57	-17.94/-12.56	-9.55/-14.97	-14.92/-6.65	-7.2/-2.94	-6.65/-6.47
Θ(142.5°)	-7.87/-5.86	-6.58/-11.61	-10.77/-10.1	-10.77/-10.1	-15.85/-18.41	-15.85/-18.41	-18.12/-14.75	-12.71/-10.05	-16.12/-10.07	-11.69/-14.25	-11.69/-14.25	-9.92/-5.89	-9.42/-15.35	-17.94/-14.4	-11.58/-13.46	-18.68/-16.81	-10.17/-11.03	-15.25/-14.68	-19.18/-17.07	-18.14/-13.85	-9.02/-10.84	-18.04/-4.93	-5.3/-10.04	-6.9/-8.43
Θ(45°)	-6/-3.63	-5.63/-8.44	-8.27/-5.47	-6.77/-8.55	-8.57/-10.76	-16.31/-18.14	-16.23/-10.07	-10.57/-8.82	-7.17/-6.61	-9.32/-8.28	-16.85/-8.95	-5.95/-7.71	-14.7/-18.06	-12.04/-9.34	-8.3/-12.33	-18.15/-16.49	-15.62/-14.89	-11.46/-16.37	-16.85/-16.26	-15.08/-12.8	-8.93/-10.16	-9.78/-4.56	-5.57/-9.03	-6.36/-8.05
Θ(52.5°)	-3.54/-3.22	-5.69/-7.05	-7.7/-3.35	-7.59/-6.62	-7.63/-12.88	-18.26/-16.66	-14.65/-11.33	-13.45/-15.76	-7.39/-7.15	-8.95/-9.3	-11.7/-7.69	-8.32/-7.96	-11.04/-13.85	-18.98/-16.12	-11.74/-15.23	-14.87/-17.87	-17.44/-10.87	-10.87/-16.69	-14.29/-18.4	-10.77/-10.76	-8.76/-8.6	-6.72/-6.61	-5.76/-7.02	-8.28/-8.66
Θ(60°)	-3.34/-7.4	-6.15/-10.4	-7.37/-5.25	-6.65/-6.83	-8.45/-16.43	-18.9/-17.2	-17.46/-17.17	-18.33/-18.11	-8.16/-8.37	-12.22/-6.4	-11.29/-4.86	-7.35/-9.22	-6.51/-8.88	-13.99/-18.66	-16.86/-19.04	-14.1/-18.5	-14.8/-18.19	-10.11/-15.76	-10.34/-17.44	-10.79/-9.12	-8.55/-6.92	-8.01/-5.91	-6.79/-4.61	-9.52/-9.78
Θ(67.5°)	-6.43/-8	-8.01/-10.53	-8.93/-7.79	-6.45/-7.73	-9.41/-13.05	-17.59/-17.75	-16.44/-16.18	-16.04/-11.44	-9.54/-8.9	-8.13/-10.78	-5.93/-5.99	-4.4/-5.58	-5.33/-7.68	-11.72/-12.49	-17.38/-19.15	-10.52/-18.63	-10.73/-16.45	-11.49/-18.18	-10.94/-17.04	-10.81/-10.64	-6.82/-5.95	-8.66/-6.7	-5.29/-7.68	-7.97/-9.95
Θ(75°)	-6.84/-7.75	-9.2/-13.73	-9.81/-8.95	-6.25/-7.81	-10.25/-13.76	-17.59/-18.04	-14.88/-16	-9.57/-8.89	-8.84/-5.99	-9.99/-7.29	-10.12/-2.92	-4.07/-5.58	-4.61/-4.65	-8.14/-9.34	-10.07/-10.81	-14.2/-12.92	-7.53/-15.5	-13.79/-10.08	-9.06/-16.55	-8.16/-12.66	-6.22/-8.06	-7.27/-9	-4.96/-8.4	-7.89/-8.93
Θ(82.5°)	-5.46/-8.66	-10.8/-10.78	-9.9/-9.85	-10.15/-10.12	-8.32/-15	-18.43/-15.46	-10.22/-15.55	-11.56/-6.73	-9.63/-6.74	-6.99/-8.76	-6.27/-3.24	-3.35/-2.91	-3.49/-3.62	-5.17/-8.75	-9.24/-8.22	-15.14/-16.02	-8.19/-9.15	-17.71/-8	-7.65/-16.37	-8.13/-11.69	-7.56/-6.51	-8.98/-7.28	-5.93/-9.39	-6.89/-9.12
Θ(90°)	-6.05/-7.74	-8.37/-9.84	-10.74/-9.32	-8.33/-9.79	-8.37/-11.7	-17.34/-18.67	-12.93/-13.23	-13.31/-8.77	-6.78/-7.4	-6.19/-6.94	-6.68/-2.88	-3.74/-2.58	-3.13/-3.73	-4.83/-5.51	-7.74/-9.58	-12.45/-13.03	-9.72/-11.72	-12.64/-6.12	-8.46/-11.95	-6.86/-11.79	-8.47/-8.5	-8.29/-7.46	-5.84/-9.46	-6.65/-8.44
Θ(97.5°)	-5.46/-7.99	-9.35/-10	-10.49/-49	-7.51/-8.03	-7.66/-13.38	-13.97/-17.92	-11.86/-12.27	-11.07/-10.98	-9.86/-5.45	-9.47/-5.96	-6.29/-3.91	-2.84/-2.65	-3.76/-2.09	-5.59/-7.09	-7.21/-11.32	-11.2/-15.29	-13.3/-10.47	-12.78/-8.8	-7.13/-17.39	-11.71/-10.56	-8.16/-9.28	-6.41/-8.58	-7.34/-9.22	-5.63/-8.98
Θ(105°)	-5.99/-8.7	-8.82/-8.9	-9.67/-8.73	-7.84/-8.92	-8.55/-17.41	-16.15/-15.13	-10.26/-13.1	-10.26/-13.1	-10.26/-13.1	-9.55/-4.67	-4.98/-2.25	-6.31/-2.79	-2.94/-6.71	-12.47/-11.67	-13.68/-11.78	-10.59/-16.94	-13.82/-8.54	-14.45/-17.87	-16.1/-9.68	-8.48/-8.85	-7.03/-7.74	-2.77/-10.25	-5.59/-8.24	
Θ(112.5°)	-6.62/-8.38	-7.01/-11.18	-7.83/-8.52	-7.51/-9.29	-9.8/-14.73	-16.19/-17.33	-11.05/-10.88	-10.02/-11.54	-12.71/-9.56	-8.15/-7.8	-7.95/-4.44	-7.19/-3.5	-5.46/-6.22	-6.09/-5.15	-18.49/-12.04	-8.8/-14.52	-18.2/-18.88	-18.44/-10.64	-18.54/-18.03	-18.71/-9.45	-9.89/-6.85	-6.07/-9.71	-8.78/-7.92	-5.6/-8.32
Θ(120°)	-5.33/-8.64	-7.91/-8.84	-7.42/-8.48	-8.54/-11.67	-12.63/-10.03	-14.42/-19.11	-13.09/-11.79	-10.21/-11.14	-11.37/-8.7	-11.67/-7.51	-6.62/-7.97	-6.19/-10.69	-6.26/-5.57	-11.3/-13.63	-15.75/-17.87	-18.46/-12.14	-11.47/-11.94	-19.12/-10.68	-14.29/-18.08	-10.48/-10.68	-11.26/-8.72	-8.75/-7.77	-8.66/-8.53	-5.69/-8.43
Θ(127.5°)	-6.76/-9.45	-5.63/-8.03	-7.95/-11.48	-9.71/-12.46	-14.71/-11.61	-14.28/-17.37	-12.74/-11.72	-9.75/-11	-10.16/-7.3	-8.98/-8.26	-5.59/-10.99	-8.48/-6.08	-10.91/-17.76	-17.81/-17.85	-14.34/-11.9	-10.84/-18.15	-12.15/-18.36	-18.39/-18.81	-12.42/-14.11	-12.96/-11.66	-10.73/-10.84	-10.74/-7.77	-7.96/-6.66	-5.46/-7.9
Θ(135°)	-7.03/-8.53	-6.28/-8.26	-10.04/-10.02	-11.88/-11.09	-8.88/-10.41	-17.2/-14.15	-11.79/-16.16	-7.62/-4.75	-7.98/-11.63	-4.75/-6.93	-8.69/-5.48	-9.2/-10.03	-10.9/-9.1	-9.76/-9.2	-9.21/-7.51	-10.83/-18.99	-18.65/-18.32	-17.83/-15.51	-17.98/-17.3	-19.03/-14.51	-10.84/-10.9	-12.25/-8.62	-6.71/-5.85	-5.98/-7.52
Θ(142.5°)	-6.45/-11.15	-8.67/-9.17	-17.72/-12.46	-8.5/-8.5	-9.83/-13.45	-18.56/-17.9	-12.45/-11.71	-8.84/-7.47	-6.34/-10.33	-11.21/-4.67	-5.25/-11.82	-6.4/-7.02	-8.12/-5.65	-5.99/-8.4	-18.28/-16.65	-18.7/-14.9	-15.27/-17.26	-18.7/-17.77	-18.56/-18.54	-12.96/-11.97	-12.19/-10.54	-13.65/-11.22	-7.8/-7.92	-7.92/-9.53
Θ(150°)	-11.15/-11.62	-8.69/-9.32	-12.95/-13.52	-10.14/-9.2	-9.55/-14.41	-18.48/-17.52	-18.49/-17.98	-15.1/-15.23	-15.64/-7.49	-6.27/-8.23	-8.91/-6.17	-6.39/-6.27	-6.25/-7.78	-3.9/-12.47	-18.28/-18.78	-18.83/-18.15	-14.61/-16.46	-17.94/-12.95	-14.47/-18.23	-14.01/-17.18	-18.13/-10.01	-13.11/-10.77	-15.79/-9.33	-6.7/-8.31
Θ(157.5°)	-7.66/-10.59	-9.76/-9.71	-9.2/-9.32	-7.48/-5.75	-7.1/-8.88	-10.65/-18.61	-18.83/-15.37	-8.79/-8.95	-6.97/-9.8	-10.04/-7.03	-7.07/-7.77	-7.09/-6.99	-9.84/-17.99	-17.55/-15.16	-17.31/-18.16	-17.69/-18.83	-18.24/-15.31	-13.72/-12.77	-15.31/-16.68	-16.55/-17.31	-16.12/-10.69	-10.37/-14.65	-12.98/-7.93	-5.84/-6.09
Θ(165°)	-6.37/-6.16	-5.22/-6.41	-9.49/-10.81	-11.53/-10.86	-12.13/-10.83	-12.86/-18.87	-18.6/-15.48	-15/-17.47	-14.6/-10.42	-10.23/-8.86	-8.12/-8.49	-9.91/-10.92	-13.42/-18.75	-13.22/-9.13	-9.51/-10.39	-10.45/-10.8	-11.94/-11.72	-12.97/-15.29	-13.3/-13.84	-12.97/-11.53	-8.08/-8.49	-9.73/-8.32	-7.33/-7.78	-7.46/-7.77
Θ(172.5°)	-6.9/-7.1	-7.95/-8.84	-11.12/-12.12	-10.95/-11.55	-11.68/-11.7	-11.89/-13.44	-15.56/-15.87	-15.38/-14.78	-15.21/-13.99	-10.69/-11.39	-12.78/-11.87	-10.96/-10.83	-13.65/-17.25	-17.54/-18.08	-17.85/-18.25	-14.32/-12.34	-17.13/-17.02	-19.06/-16.77	-14.7/-12.87	-14.35/-12.83	-11.46/-12.35	-13.31/-10.01	-9.08/-8.08	-7.14/-7.16
Θ(180°)	-8.13/-8.53	-8.25/-9.04	-9.72/-10.22	-13.95/-13.81	-11.16/-11.7	-18.98/-17.7	-15.67/-16.21	-11.79/-11.68	-11.33/-11.29	-12.15/-17.36	-17.13/-11.66	-11.2/-13.23	-14.47/-10.59	-17.73/-8.15	-8.24/-7.63	-11.93/-13.35	-17.64/-18.29	-16.48/-18.75	-14.73/-16.46	-11.29/-11.42	-10.77/-8.87	-9.12/-7.97	-8.2/-7.46	-6.97/-7.66
Freq(Hz)	5.6GPol.	ThetaAnt.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°)	-18.54/-17.37	-18.53/-16.51	-14.9/-15.11	-11.96/-10.47	-12.26/-8.83	-10.47/-11	-8.9/-10.31	-9.39/-9.28	-12.11/-13.13	-11.75/-13.69	-15.55/-17.76	-18.05/-17.99	-18.06/-17.94	-17.71/-15.46	-10.63/-11.31	-11.3/-8.54	-11.23/-9.45	-11.51/-12.55	-9.15/-10.35	-12.6/-11.35	-11.61/-11.23	-12.53/-14.74	-16.34/-17.2	-18.88/-18.14
Θ(7.5°)	-15.28/-14.71	-11.71/-10.45	-10.45/-10.22	-11.62/-10.78	-10.82/-13.41	-12.76/-14.81	-12.94/-13.97	-11.57/-13.23	-13.46/-14.81	-11.73/-11.56	-13.17/-13.93	-17.44/-18.26	-18.59/-17.48	-18.18/-10.2	-19/-15.2	-16.01/-15.89	-12.1/-14.12	-10.03/-12	-12.66/-10.03	-14/-11.69	-12.45/-12.17	-12.9/-15.9	-18.51/-14.23	-17.94/-17.95
Θ(15°)	-9.99/-9.07	-7.81/-8.76	-8.27/-8.03	-8.95/-8.37	-9.51/-10.65	-9.88/-10.43	-14.44/-15.11	-14.15/-14.1	-12.58/-10.87	-10.08/-10.36	-12.13/-13.81	-14.96/-16.07	-18.07/-17.62	-18.37/-17.98	-18.48/-18.25	-17.03/-18.21	-18.98/-18.39	-18.44/-17.84	-18.59/-17.78	-19.16/-18.73	-19.35/-16.49	-15.95/-13.82	-12.08/-11.23	-11.71/-10.12
Θ(22.5°)	-5.46/-4.55	-4.91/-5.53	-5.17/-5.1	-6.3/-5.71	-7.06/-7.46	-7.24/-6.32	-7.39/-7.51	-9.13/-10.47	-8.38/-6.42	-4.1/-4.13	-6.89/-9.82	-10.56/-10.14	-12.36/-15.32	-16.07/-12.26	-11.68/-12.92	-13.63/-16.99	-15.2/-12.25	-12.08/-9.66	-13.43/-13.64	-16.81/-14.48	-16.71/-17.76	-18.15/-17.91	-11.63/-8.89	-6.79/-5.52
Θ(30°)	-2.96/-3.33	-3.92/-2.79	-1.78/-2.67	-3.54/-3.57	-2.01/-0.9	-1.91/-2.21	-3.86/-8.45	-4.3/-3.67	-3.29/-3.7	-3.45/-3.66	-4.08/-2.45	-6.22/-9.85	-16.85/-14.86	-11.17/-11.12	-10.22/-8.85	-13.85/-18.09	-11.59/-13.83	-9.21/-9.48	-15.28/-16.04	-13.25/-8.64	-9.34/-10.17	-13.57/-12.57	-13.14/-12.07	-6.41/-3.47
Θ(37.5°)	-2.89/-3.19	-1.82/-1.16	-2.23/-3.3	-3.93/-2.77	-1.72/-1.91	-3.03/-4.68	-4.64/-5.04	-3.11/-1.93	-1.12/-1.88	-2.69/-2.84	-1.94/-2.22	-4.35/-6.03	-8.99/-5.67	-5.3/-7.12	-8.37/-6.27	-5.76/-6.41	-8.58/-7.2	-7.09/-5.67	-7.05/-11.05	-10.33/-11.88	-12.09/-8.98	-8.41/-7.38	-7.53/-10.36	-7.16/-3.54
Θ(45°)	-0.32/-0.26	-1.35/-3.2	-3.2/-4.59	-5.91/-4.55	-4.02/-4.75	-5.55/-5.88	-4.94/-3.95	-5.020/-77	-0.07/-1.65	-4.0/-7.5	-0.34/-1.12	-1.04/-2.25	-2.31/-1.24	-2.19/-4.08	-4.62/-3.76	-4.74/-1.61	-3.24/-3.47	-1.69/-1.73	-2.61/-3.21	-4.69/-6.21	-5.78/-5.64	-5.53/-5.59	-5.92/-5.76	-5.61/-3.34
Θ(52.5°)	0.76/-0.71	-1.63/-2.97	-0.62/-2.48	-2.63/-3.3	-5.81/-6.35	-4.1/-2.98	-2.52/-3.39	-1.090/-99	0.671/-1.55	-2.21/-1.33	0.590/-46	0.730/-27	-2.46/-4.92	-4.62/-3.52	-3.49/-7.76	-6.82/-3.96	-6.36/-6.41	-1.95/-6.78	-2.15/-3.59	-4.24/-7.2	-6.16/-3.18	-3.68/-5.39	-1.1/-1.17	-1.49/-0.28
Θ(60°)	0.62/-0.67	-2.17/-0.1	-0.25/-1.95	-0.14/-2.28	-6.23/-4.82	-1.73/-1.81	-0.98/-2.1	-0.080/-28	-1.4/-0.27	-0.81/-0.91	0.441/-17	1.720/-3	-4.52/-8.59	-5.73/-0.34	-2.33/-4.26	-7.26/-19.4	-12.17/-10.64	-3.11/-0.19	-3.26/-4.44	-5.3/-10.7	-8.89/-3.22	-3.74/-4.56	0.08/-1.66	0.22/-0.58
Θ(67.5°)	0.21/-0.3	-2.010/-31	-1.41/-2.36	-0.56/-2.56	-2.39/-2.29	-0.54/-0.68	-1.81/-0.62	0.720/-93	-2.22/-127	-0.440/-5	0.81/-31	1.770/-71	-3.35/-2.26</											



Radiated Composite Gain Data_5G6G

Appendix D

Θ(75°)	-3.96/-4.85	-5.28/-6.45	-10.01/-15.11	-14.56/-8.44	-11.22/-18.4	-16.96/-11.19	-10.88/-17.5	-18.58/-12.93	-9.67/-6.48	-5.75/-8.05	-4.75/-5.95	-6.85/-2.34	-4.54/-7.23	-3.88/-6.24	-10.25/-19.06	-17.87/-11.16	-8.42/-18.4	-15.84/-13.71	-8.85/-8.9	-17.98/-5.27	-5.84/-5.28	-7.58/-3.82	-3.79/-4.89	-4.99/-2.21
Θ(82.5°)	-3.74/-3.47	-6.65/-7.4	-9.75/-13.07	-8.27/-8.56	-13.07/-14.64	-17.85/-11.11	-11.81/-19.09	-15.91/-14.05	-10.51/-5.62	-5.94/-6.64	-4.48/-3.36	-5.26/-2.71	-1.39/-7.66	-2.98/-1.68	-8.44/-13.56	-15.51/-19.29	-10.35/-18.44	-16.49/-7.74	-4.68/-6.63	-18.13/-4.92	-4.74/-6.58	-6.1/-3.54	-4.2/-2.78	-3.6/-2.36
Θ(90°)	-3.04/-3.72	-6.34/-7.47	-8.86/-12.37	-8.21/-7.78	-11.71/-13.09	-18.56/-16.09	-10.76/-14.34	-10.52/-10.78	-10.25/-5.69	-6.96/-6.61	-3.99/-2.91	-3.39/-2.65	-1.21/-5.31	-5.3/-3.41	-6.46/-10.06	-8.88/-8.85	-17.83/-14.96	-15.36/-8.56	-4/-8.4	-16.05/-5.59	-5.74/-6.33	-6.15/-5.76	-5.1/-5.31	-3.8/-1.97
Θ(97.5°)	-4.17/-5.75	-6.9/-5.72	-8.73/-12.25	-6.98/-7.28	-10.45/-17.42	-18.75/-13.23	-15.5/-17.25	-12.85/-7.55	-9.58/-7.51	-4.96/-9.05	-2.52/-2.44	-2.98/-1.65	-1.3/-4.32	-4.14/-4.39	-9.7/-9.76	-10.69/-11.58	-13.33/-18.53	-16.42/-11.44	-6/-7.1	-13.26/-6.74	-5.36/-9.94	-6.43/-5.58	-6.31/-5.45	-4.07/-2.22
Θ(105°)	-5.38/-5.7	-6.38/-6.86	-9.05/-10.45	-6.15/-6.05	-14.66/-18.56	-15.6/-14.03	-15.11/-18.61	-15.22/-8.37	-8.93/-7.21	-5.54/-5.66	-4.27/-2.91	-2.17/-3.13	-1.8/-8.94	-7.27/-4.88	-11.23/-9.82	-6.2/-10.36	-10.62/-12.1	-14.8/-9.29	-9.47/-10.73	-18.17/-9.61	-8.29/-10.77	-6.72/-6.29	-6.41/-4.15	-5.67/-2.68
Θ(112.5°)	-7.6/-5.94	-7.5/-8.33	-6.16/-7.17	-7.18/-7.04	-13.08/-19.06	-17.47/-10.5	-14.04/-16.61	-18.01/-9.38	-10.89/-17.83	-6.93/-4.45	-6.01/-3.46	-1.6/-3.86	-3.93/-2.97	-8.08/-10.59	-16.39/-16.24	-14.2/-12.26	-11.59/-19.23	-13.38/-13.2	-11.83/-4.43	-8.86/-7.99	-6.34/-7.1	-6.21/-4.31		
Θ(120°)	-7.23/-6.93	-7.51/-8.63	-7.23/-6.14	-5.64/-6.18	-15.96/-18.94	-18.85/-17.18	-10.39/-14.71	-15.88/-11.44	-9.79/-8.78	-6.64/-3.99	-7.44/-6.08	-3.88/-3.46	-8.02/-6.67	-7.2/-17.85	-13.67/-18.51	-10.22/-12.12	-18/-16.58	-13.59/-17.17	-18.56/-15.51	-17.12/-16.66	-17.95/-10.8	-9.17/-6.03	-7.89/-3.99	-6.95/-4.72
Θ(127.5°)	-6.69/-8.35	-7.62/-6.82	-8.05/-6.67	-6.8/-6.46	-12.72/-18.61	-18.39/-18.1	-15.65/-14.19	-14.36/-7.56	-6.89/-11.8	-5.15/-5.67	-8.94/-4.61	-7.06/-8.08	-5.18/-9.14	-13.89/-18.12	-15.07/-18.25	-10.08/-18.65	-15.78/-18	-15.96/-17.83	-18.52/-18.48	-14.66/-16.22	-15.92/-13.24	-10.2/-9.63	-5.21/-4.8	-7.53/-5.74
Θ(135°)	-7.82/-5.19	-6.75/-17.22	-5.94/-6.47	-7.33/-9.28	-12.06/-18.15	-18.51/-15	-13.26/-17.5	-12.72/-10.43	-8.94/-14.12	-6.99/-6.83	-7.47/-7.83	-4.8/-6.65	-12.08/-10.67	-18.43/-7.88	-8.29/-17.88	-9.7/-11.79	-17.99/-19.32	-18.4/-15.07	-13.66/-19.18	-14.88/-11.26	-18.32/-9.24	-12.44/-8.49	-5.53/-8.45	-5.51/-6.18
Θ(142.5°)	-10.41/-4.84	-5/-8.39	-6.08/-3.99	9.08/-14.5	-12.76/-13.05	-17.14/-12.53	-13.52/-17.79	-12.96/-13.46	-12.4/-11.35	-9.39/-7.8	-3.63/-3.64	-9.34/-9.48	-7.43/-8.53	-8.63/-7.63	-6.51/-18.49	-14.88/-17.61	-15.34/-13.69	-14.94/-18.32	-16.37/-12.72	-12.21/-13.34	-17.82/-11.71	-15.14/-9.06	-7.92/-9.84	-3.75/-6.06
Θ(150°)	-8.02/-8.68	-6.96/-9.56	-7.48/-6.39	-8.47/-13.03	-14.17/-14.74	-16.14/-17.9	-7.88/-5.53	-6.66/-9.18	-6.71/-8.21	-12.34/-8.75	-6.46/-6.48	-5.69/-5.3	-8.82/-18.1	-13.68/-12.23	-13.08/-16.95	-15.14/-15.97	-17.04/-17.82	-18.91/-16.07	-12.31/-11.64	-19.19/-17.62	-12.09/-12.33	-9.38/-6.79	-3.75/-6.73	
Θ(157.5°)	-5.88/-5.69	-6.79/-10.12	-9.48/-7.12	-5.89/-10.66	-12.77/-17.99	-16.78/-19.04	-16.26/-15.66	-12.89/-14.03	-10.85/-10.22	-14.42/-8.21	-5.27/-4.99	-7/-10.32	-11.31/-11.83	-18.29/-16.49	-9.8/-12.72	-18.23/-17.64	-18.45/-18.99	-18.72/-17	-18.69/-14.35	-12.81/-18.08	-17.96/-14.53	-10.46/-11.74	-7.78/-11.47	
Θ(165°)	-13.61/-11.12	-10.17/-8.48	-8.18/-7.58	-7.93/-8.27	-9.01/-11.6	-12.82/-16.91	-17.12/-17.02	-11.87/-13.22	-9.36/-7.18	-5.14/-4.29	-4.17/-6.38	-10.06/-16.65	-12.74/-8.74	-11.33/-18.41	-17.81/-18.33	-11.43/-12.59	-10.42/-14.92	-13.03/-17.96	-17.59/-17.79	-17.64/-18.79	-18.68/-17.74	-18.08/-10.65	-7.28/-6.8	-8.26/-12.16
Θ(172.5°)	-7.04/-8.96	-11.49/-12.95	-13.74/-15.3	-15.14/-16.85	-16.28/-18.76	-17.76/-17.58	-17.91/-16.98	-11.84/-9.56	-6.88/-5.63	-5.62/-5.96	-7.13/-10.73	-15.4/-17.29	-11.38/-9.22	-10.39/-9.86	-9.77/-12.6	-12.47/-17.72	-18.41/-17.54	-18.46/-18.67	-18.04/-18.59	-17.75/-15.24	-16.67/-14.01	-9.32/-7.08	-6.01/-5.54	-5.32/-5.44
Θ(180°)	-6.66/-7.83	-8.19/-9.01	-10.14/-12.12	-13.15/-14.14	-17.71/-17.93	-19.16/-18.69	-18.54/-17.9	-14.86/-11.88	-13.73/-12.62	-14.92/-18.25	-17.21/-13.78	-13.45/-14.5	-16.99/-17.81	-17.38/-14.03	-11.35/-12.25	-11.85/-11.09	-15.58/-15.29	-17.71/-15.7	-15.97/-19.32	-15.19/-15.61	-14.11/-11.14	-9.65/-8.03	-7.84/-7.65	-7.43/-6.41
Freq(Hz)	6.175GPol.	Theta/Ant. 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°)	-16.15/-17.13	-17.57/-15.74	-15.18/-14.96	-14.47/-11.93	-12.07/-12.51	-11.42/-9.72	-11.27/-10.49	-10.52/-11.97	-10.88/-11.7	-13.16/-14.43	-16.39/-17.31	-18.79/-19.02	-18.40/-15.51	-16.54/-15.98	-12.1/-13.28	-12.24/-11.25	-14.72/-12.16	-13.73/-12.38	-14.23/-15.02	-17.21/-18.66	-19.18/-18.96	-19/-18.21	-16.35/-16.7	
Θ(7.5°)	-18.93/-18.36	-18.58/-13.91	-12.77/-11.52	-11.48/-11.34	-9.03/-11.36	-9.54/-11.08	-11.07/-11.34	-12.72/-11.81	-14.1/-16.19	-18.64/-18.34	-17.83/-19.21	-17.87/-15.59	-15.61/-17.32	-18.72/-18.48	-18.43/-18.55	-18.24/-12.22	-9.43/-9.31	-7.37/-8.18	-7.01/-8.54	-8/-8.98	-11.1/-12.38	-15.05/-17.57	-17.9/-18.92	-18.3/-18.04
Θ(15°)	-17.68/-15.18	-12.41/-11.03	-9.88/-10.69	-10.42/-9.14	-8.56/-6.75	-9.08/-7.37	-8.24/-9.03	-8.88/-9.1	-8.75/-13.17	-12.58/-9.31	-9.69/-13.23	-18.66/-18.4	-17.8/-14.52	-18.84/-18.1	-17.11/-19.12	-18.66/-18.77	-18.28/-18.39	-16.1/-15.26	-15.77/-18.22	-16.8/-17.54	-17.03/-17.73	-16.82/-17.61	-16.73/-17.04	-14.92/-17.48
Θ(22.5°)	-7.77/-9.76	-10.23/-10.62	-7.71/-4.8	-3.96/-3.51	-2.52/-1.85	-2.45/-2.92	-3.84/-3.27	-5.52/-5.16	-6.35/-9.28	-7.58/-5.44	-4.95/-6.23	-7.06/-6.93	-12.52/-12.14	-12.24/-15.95	-18.23/-17.08	-18.44/-16.64	-18.18/-8.64	-15.51/-17.55	-17.76/-16.12	-13.95/-11.31	-14.73/-12.97	-14.18/-13.85	-12.30/-10.8	-7.87/-7.76
Θ(30°)	-5.66/-7.6	-9.92/-8.38	-5.19/-3.25	-3.21/-3.67	-4.26/-5.29	-5.04/-5.55	-2.72/-2.9	-3.99/-6.62	-5.9/-5.76	-3.87/-3.5	-4.84/-4.31	-3.26/-3.96	-7.47/-10.86	-8.86/-8.03	-8.95/-18.21	-18.65/-18.52	-15.63/-11.08	-8.73/-8.3	-8.51/-6.43	-4.82/-6.06	-11.17/-18.87	-17.86/-15.31	-10.89/-6.6	-4.6/-4.57
Θ(37.5°)	-3.33/-3.5	-4.22/-5.25	-6.09/-4.28	-2.78/-4.29	-4.21/-5.7	-5.24/-5.91	-5.04/-5.09	-2.93/-2.76	-0.59/-1.39	-2.43/-6.01	-5.14/-6.13	-5.45/-5.5	-8.79/-13.3	-8.31/-6.03	-8.31/-6.03	-13.86/-11.33	-18.61/-15.41	-9.3/-8.76	-11.98/-7.69	-3.56/-6.06	-9.6/-14.72	-3.04/-4.13	-3.4/-4.01	
Θ(45°)	-1.17/-1.95	-1.91/-2.62	-3.61/-0.6	0.52/-5.88	-10.64/-6.78	-3.540/-27	-0.66/-4.07	4.16/-2.64	0.172/-14	0.43/-3.69	-5.88/-3.13	-2.48/-2.93	3.4/-5.59	-5.26/-4.91	-3.86/-0.69	-1.06/-2.06	-3.51/-2.41	-1.23/-2	-3.23/-1.65	-2.38/-6.17	-11.09/-16.9	-11.58/-12.59	4.25/-2.12	-1.87/-1.12
Θ(52.5°)	-1.930/05	0.95/-2.81	-3.22/-1.13	-1.22/-1.64	-3.82/-4.45	-1.43/-0.53	-0.09/-1.5	-1.76/-0.43	0.13/-0.31	-0.66/-0.92	-1.19/-0.92	-0.55/-2.03	-1.56/-5.33	-5.62/-5.83	-1.95/-6.03	-1.310/-1	-2.82/-3.41	-1.81/-1.12	-0.070/-29	-1.94/-4.9	-13.46/-19.35	-10.89/-4.5	-0.51/-1.17	-0.6/-0.53
Θ(60°)	-0.391/91	1.43/-3.18	-3.93/-3.53	-1.1/-1.66	-4.24/-3.3	-0.710/-48	-1.06/-3.17	-6.01/-0.91	0.280/-0.66	-1.860/-24	1.71/-1.02	0.26/-1.58	-2.63/-6.75	-7.19/-6.95	-2.76/-4	-5.6/-1.5	-5.44/-7.26	-1.1/-1.03	-2.78/-1.62	-4.46/-3.74	-7.7/-9.19	-10.45/-4.33	1.180/85	-1.480/-74
Θ(67.5°)	2.152/-13	1.36/-1.66	-3.25/-3.1	-0.68/-0.32	-1.92/-3.58	-1.95/-1.13	-1.67/-2.4	-3.97/-2.76	-1.27/-0.29	-0.490/-77	0.630/-01	0.11/-0.54	-2.09/-5.94	-7.82/-7.61	-2.57/-4.77	-7.65/-5.13	-1.68/-6.94	-1.96/-1.77	-2.31/-11	-8.12/-6.72	-6.56/-3.92	1.432/-03	-2/-16	
Θ(75°)	2.431/-49	1.83/-0.48	-2.49/-0.93	-1.32/-2.36	0.56/-1.24	-4.32/-2.49	-4.38/-4.02	-2.12/-2.03	-1.63/-0.06	0.061/-66	-2.240/-84	0.520/-84	-6.88/-1.97	-4.64/-13.1	-5.97/-4.52	-2.29/-8.08	-1.267/-4.82	-2.530/-12	0.451/-55	-6.04/-6.6	-7.56/-3.61	-5.9/-3.39	8.022/-21	-2.532/-22
Θ(82.5°)	2.71/-49	2.07/-0.4	-1.38/-0.92	-1.47/-0.79	1.18/-0.71	-4.84/-3.6	-2.69/-3.24	-2.37/-0.76	-0.33/-0.39	0.440/-95	-3.521/-24	0.771/-33	0.51/-1.61	-3.88/-10.23	-10.67/-3.38	-1.99/-7.93	-4.89/-0.77	-2.340/-85	2.292/-01	-7.08/-6.6	-11.64/-5.61	-4.79/-3.88	-0.84/-18	-2.662/-62
Θ(90°)	1.930/-77	1.84/-0.46	-1.77/-0.89	-1.67/-1.03	0.85/-0.06	-4.06/-2.8	-1.44/-1.95	-2.40/-24	-0.86/-1.38	-0.09/-0.14	2.190/-16	0.820/-72	-0.55/-2.37	-5.06/-14.26	-18.59/-3.21	-1.48/-3.69	-5.230/-14	-1.44/-1.69	2.681/-76	-8.96/-7.81	-13.55/-6.83	-4.69/-5.13	-2.390/-6	-3.391/-32
Θ(97.5°)	0.450	0.73/-1.21	-2.9/-1.77	-1.82/-1.32	0.20/-04	-4.68/-2.93	-1.82/-1.03	-2.490/-23	-0.93/-1.53	-0.86/-2.02	-2.26/-1.98	-0.96/-1.31	-4.02/-4.99	-9.32/-12.71	-18.74/-5.27	-4.13/-5.72	-8.04/-0.31	-1.320/-132	1.42/-1.73	-13.58/-12.89	-13.38/-8.74	-5.64/-5.6	-3.12/-2.06	-5.33/-0.29
Θ(105°)	-2.17/-1.09	-1.19/-1.17	-3.93/-3.3	-2.33/-1.72	-1.19/-1.35	-3.74/-5.46	-3.07/-0.28	-2.56/-0.42	-2.27/-1.85	-1.74/-4.15	-1.63/-5.43	-3.06/-5.07	-7.81/-6.96	-8.51/-5.54	-17.52/-10.47	-11.69/-10.26	-8.97/-4.77	-4.52/-9.52	-4.23/-12.06	-13.25/-16.11	-16.71/-7.67	-6.53/-5.97	-4.97/-3.91	-8.05/-3.36
Θ(112.5°)	-7.83/-3.54	-4.38/-3.17	-4.42/-4.81	-3.86/-1.88	-1.79/-2.43	-3.18/-3.58	-4.47/-3.23	-1.89/-1.49	-2.42/-3.69	-3.88/-3.73	-3.03/-7.83	-6.82/-8.46	-15.86/-9.22	-9.35/-7.67	-9.51/-11	-8.68/-6.27	-5.62/-13.89	-16.97/-10.12	-18.62/-15.5	-16.8/-8	-8.14/-18.49	-8.25/-5.75	-8.49/-7.04	-10.19/-4.2
Θ(120°)	-1.189/-8	-7.41/-5.51	-4.79/-6.1	-5.62/-1.17	-0.9/-2.62	-2.13/-2.57	-4.84/-5.2	-6.66/-3.56	-3.84/-5.03	-4.01/-4.43	-3.02/-10.18	-10.98/-15.52	-18.12/-11.06	-7.38/-8.5	-13.39/-5.11	-7.43/-15.1	-3.86/-9.71	-8.12/-7.24	-7.87/-9.57	-10.67/-11.94	-9.79/-6.82	-8.84/-8.61	-10.47/-6.23	
Θ(127.5°)	-12.59/-8.32	-8.01/-5.61	-8.23/-4.75	-5.86/-2.29	-0.29/-1.85	-3.77/-4.32	-5.																	



Radiated Composite Gain Data_5G6G

Appendix D

Θ(120°)	-6.79/-6.6	-9.2/-6.62	-9.33/-8.89	-12.2/-12.53	-11.63/-16.66	-18.04/-18.3	-17.54/-9.98	-11.21/-11	-6.72/-10.68	-6.76/-5.91	-6.64/-4.62	-8.72/-4.72	-5.43/-12.52	-9.27/-15.02	-12.66/-8.78	-11.17/-16.61	-18.76/-16.69	-18.98/-15.79	-18.35/-15.74	-19/-12.31	-6.81/-13.07	-5.29/-7.65	-5.54/-7.97	-3.69/-7.08
Θ(127.5°)	-7.42/-10.76	-9.49/-7.68	-10.66/-10.4	-9.61/-12.61	-15.78/-17.53	-18.87/-18.01	-18.57/-10.9	-11.19/-10.55	-8.23/-10	-6.58/-9.33	-3.82/-5.46	-8.86/-8.73	-7.92/-11.56	-19.37/-12.53	-17.19/-14.19	-12.88/-18.6	-11.61/-11.62	-19.02/-16.25	-18.2/-18.31	-19.05/-11.02	-17.57/-9.11	-4.47/-5.71	-6.41/-7.32	-5.39/-9.36
Θ(135°)	-10.67/-17.63	-11.71/-9.61	-13.1/-13.55	-10.72/-12.18	-17.55/-18.78	-18.48/-17.72	-13.95/-18.62	-12.26/-18.65	-11.09/-5.21	-11.19/-8.63	-4.83/-5.17	-8.96/-4.44	-11.27/-11.47	-17.89/-9.92	-10.28/-12.63	-18.93/-14.34	-14.64/-18.32	-19.37/-17.77	-16.09/-11.46	-16.08/-13.83	-16.29/-7.32	-6.45/-6.64	-7.94/-5.85	-8.35/-9.59
Θ(142.5°)	-9.98/-17.06	-10.39/-9.08	-11.73/-10.75	-8.25/-9.99	-18.28/-19.18	-18.95/-18.59	-17.82/-18.54	-12.12/-15.53	-9.34/-7.27	-6.84/-10.79	-8.57/-6.77	-7.98/-9.57	-9.48/-7.14	-12.62/-13	-18.13/-17.51	-17.53/-16.75	-17.35/-18.17	-18.86/-15.2	-18.1/-15.08	-18.81/-17.84	-9.54/-8.86	-15.11/-6.37	-11.05/-5.95	-5.53/-9.99
Θ(150°)	-8.05/-7.99	-10.07/-9.99	-8.32/-10.78	-9.8/-11.64	-16.72/-17.77	-17.53/-12.97	-16.05/-17.85	-17.78/-18.04	-16.19/-15.61	-10.33/-4.55	-7.5/-14.86	-4.69/-6.79	-16.04/-8.09	-8.66/-8.63	-10.51/-17.01	-15.8/-19.09	-15.51/-18.69	-18.61/-13.79	-17.23/-17.07	-19.13/-18.07	-15.13/-13.35	-16.98/-10.96	-12.35/-9.71	-11.96/-10.99
Θ(157.5°)	-11.23/-10.32	-7.33/-5.53	-7.77/-12.3	-15.65/-10.78	-11.06/-13.74	-17.84/-16.1	-16.74/-18.53	-18.22/-14.83	-12.81/-11.69	-8.71/-8.94	-13.15/-6.34	-4.66/-5.91	-11.58/-11.71	-12.86/-17.86	-19.19/-16.24	-17.84/-17.3	-18.77/-18.57	-17.1/-18.54	-17.57/-17.93	-18.93/-18.3	-13.14/-13.79	-12.87/-10.33	-11.36/-11.11	
Θ(165°)	-7.23/-10.1	-12.48/-10.31	-7.93/-8	-10.67/-15.25	-18.05/-18.96	-19.13/-17.48	-18.29/-18.19	-17.41/-15.47	-17.11/-15.16	-14.24/-11.48	-8.23/-7.39	-10.77/-13.89	-17.78/-15.58	-9.81/-9.38	-12.08/-18.53	-18.28/-17.21	-19.18/-17.78	-18.2/-18.12	-17.98/-14.86	-12.8/-9.09	-8.29/-7.19	-7.2/-7.2	-8.1/-8.6	-7.25/-6.41
Θ(172.5°)	-3.89/-4	-4.02/-4.08	-5.25/-5.93	-7.09/-9.38	-11.7/-15.19	-18.79/-17.98	-18.61/-18.64	-17.91/-14.9	-13.85/-16.53	-17.08/-17.37	-18.65/-17.96	-13.12/-16.05	-10.62/-11.78	-19.02/-19.05	-18.43/-18.82	-18.92/-17.93	-18.14/-18.28	-18.81/-18.28	-17.58/-16.53	-16.55/-14.72	-15.97/-11.79	-10.02/-7.81	-6.5/-5.71	-5.4/-4.84
Θ(180°)	-4.85/-4.15	-4.42/-4.38	-6.56/-6.75	-9.01/-10.6	-11.78/-13.56	-17.84/-17.58	-19.28/-15.56	-15.62/-13.61	-15.09/-16.96	-19.1/-18.39	-14.57/-11.31	-10.53/-10.24	-10.18/-9.05	-6.56/-5.73	-6.21/-6.44	-9.72/-9.79	-13.54/-13.49	-17.97/-14.43	-11.49/-9.9	-7.83/-6.31	-6.06/-5.25	-4.75/-3.87	-3.9/-4.06	
Freq(Hz)	6.995GPol.	ThetaAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)
Θ(0°)	-12.81/-12.12	-10.67/-9.62	-9.2/-9.34	-9.1/-8.83	-9.49/-9.18	-11.64/-10.83	-13.94/-10.53	-19.07/-17.42	-18.35/-18.53	-17.69/-14.8	-13.34/-13.76	-13.06/-12.9	-12.78/-12.84	-13.79/-15.03	-14.48/-16.78	-18.37/-18.66	-18.49/-18.41	-18.46/-19.14	-18.41/-18.24	-19.02/-18.3	-16.61/-16.69	-17.22/-14.28	-12.87/-13.26	
Θ(7.5°)	-17.68/-18.45	-18.6/-17.21	-18.63/-16.57	-15/-14.86	-13.55/-12.55	-13.51/-13.79	-13.28/-16.54	-16.63/-15.47	-15.63/-16.35	-14.94/-14.11	-13.04/-13.18	-13.66/-13.81	-13.97/-13.79	-11.68/-11.7	-12.57/-11.23	-10.14/-9.86	-10.1/-9.88	-9.34/-9.97	-9.93/-11.96	-14.75/-16.82	-18.43/-17.66	-17.51/-19.18	-17.14/-18.39	-18.02/-18.44
Θ(15°)	-15.76/-12.85	-11.61/-10.71	-10.15/-9.68	-9.3/-9.45	-8.06/-8.01	-6.3/-5.2	-5.18/-5.34	-4.81/-6.55	-7.73/-9.46	-11.67/-11.7	-10.7/-9.69	-9.67/-9.66	-11.06/-14.2	-15.3/-14.78	-18.3/-18.15	-19.13/-18.16	-13.31/-14.16	-9.36/-10.72	-9.01/-12.1	-11.44/-16.45	-18.3/-17.02	-18.58/-15.65	-17.28/-17.76	-17.28/-16.99
Θ(22.5°)	-18.96/-11.51	-8.26/-6.45	-5.7/-4.55	-4.04/-5.05	-5.12/-5	-4.77/-4.55	-2.72/-2.32	-2.37/-3.71	-7.91/-7.65	-9.54/-11.98	-13.56/-16.94	-18.76/-17.91	-18.75/-18.58	-11.23/-9.67	-10.96/-14.84	-17.92/-13.54	-17.53/-12.37	-13.91/-10.77	-12.57/-11.42	-13.93/-13.53	-11.48/-10.77	-11.74/-10.09	-13.32/-18.76	
Θ(30°)	-7.39/-6.87	-4.94/-3.46	-4.27/-4.71	-6.88/-13.16	-13.47/-11.98	-5.84/-3.87	-3.4/-4.15	-4.53/-3.01	-2.55/-3.73	-5.65/-5.87	-5.98/-5.98	-6.55/-7.02	-6.09/-8.31	-13.43/-15.11	-18.79/-19.17	-10.35/-9.9	-9.89/-14.26	-18.26/-13.82	-12.15/-11.16	-9.01/-13.72	-17.94/-16.37	-18.09/-12.62	-8.09/-10.1	-16.45/-9.46
Θ(37.5°)	-8.42/-5.1	-1.91/-2.92	-4.09/-5	-6.15/-6.22	-5.11/-4.29	-4.79/-2.38	-0.390/-44	-12.12/-8.46	-5.27/-2.84	-1.63/-2.32	-3.43/-3.04	-3.42/-4.29	-5.11/-6.33	-9.96/-9.42	-9.41/-12.65	-15.17/-8.73	-9.45/-13.35	-18.2/-17.4	-14.9/-7.31	-6.39/-9.95	-16.88/-12.4	-12.29/-8.66	-7.49/-7.72	-4.57/-3.36
Θ(45°)	-2.94/-5.8	-1.91/-3.25	-3.92/-8.4	-6.67/-1.99	-4.75/-3.19	-2.57/-2.67	-4.9/-3.49	-6.2/-5.59	-3.37/-3.42	-4.33/-2.43	-2.33/-5.39	-4.75/-3.13	-4.02/-5.94	-6.35/-7.3	-2.23/-5.8	-5.59/-3.53	-6.84/-4.1	-4.81/-2.23	-3.29/-9.13	-13.46/-11.7	-12.74/-6.65	-7.52/-6.43	-3.18/-3.55	
Θ(52.5°)	0.84/-1.32	-3.830/-1.5	-0.49/-2.42	-4.46/-4.04	-1.6/-3.94	-5.21/-3.1	-2.72/-1.4	-1.5/-7.66	-3.89/-2.26	-1.48/-4.96	-3.3/-3.01	-4.49/-1.82	-1.99/-3.99	-8.9/-5.45	-4.190/-0.6	0.12/-1.3	-0.97/-2.7	-3.51/-1.57	-0.090/-4.8	-0.95/-7.47	-18.37/-13.4	-9.18/-1.23	-3.4/-4.43	-0.84/-0.88
Θ(60°)	1.1/-2.35	-0.64/-1.77	1.720/-2.4	-5.08/-0.41	-0.48/-0.66	-5.22/-4.26	-2.62/-3.83	-0.44/-2.73	-1.56/-2.17	-2.98/-0.93	-3.79/-0.95	-1.32/-1.67	-2.1/-3.75	-9.33/-5.56	-4.95/-2.33	-3.18/-1.5	-1.93/-2.99	-3.32/-0.77	-0.55/-2.62	-0.5/-5.76	-10.2/-1.73	-8.86/-0.4	0.69/-8.35	-0.06/-1.1
Θ(67.5°)	0.712/-9.9	-2.05/-7.71	2.621/-4	-6.55/-4.13	-0.91/-0.78	-1.14/-2.63	-0.22/-1.03	-1.1/-2.3	-0.42/-1	-2.760/-18	-0.31/-0.9	0.241/-5.6	-1.21/-5.81	-0.25/-2.48	-4.28/-2.38	-10.27/-1.57	-5.88/-18.33	-1.65/-2.15	-1.07/-5.14	-1.44/-4.18	-10.07/-14.76	-10.73/-0.91	1.47/-1.82	0.34/-4.3
Θ(75°)	0.683/-5.4	-0.191/-9	2.440/-8	-4.24/-4.08	-3.81/-0.12	-0.94/-2.78	-5.62/-4.73	0.71/-0.89	-0.99/-0.71	-0.94/-0.24	2.19/-1.31	1.3/-1.38	-0.11/-3.75	-7.76/-4.64	-2.97/-0.8	-5.52/-0.24	-6.84/-5.44	-0.16/-0.95	1.3/-1.44	-1.23/-5.02	-8.82/-9.24	-12.38/-1.81	0.89/-0.74	-0.140/-8.8
Θ(82.5°)	0.122/-8.3	-1.21/-41	0.79/-1.2	-2.96/-5.13	-4.96/-0.27	-4.32/-4.26	-4.14/-4.8	-0.830/-7	-1.72/-14.6	-0.81/-1.57	2.92/-1.86	1.88/-0.33	0.28/-3.35	-6.05/-6.36	-3.41/-0.85	-1.32/-0.67	-3.47/-0.23	-1.03/-0.6	3.720/-21	-0.73/-8.1	-9.38/-10.34	-11.76/-3.15	-0.94/-1.91	-0.380/-3.3
Θ(90°)	-1.181/-3.8	-2.350/-0.8	-1.49/-1.93	-3.95/-5.39	-5.73/-1.33	-5.05/-4.21	-6.36/-5.83	-1.570/-5.3	-2.26/-2.47	1.151/-2.17	2.81/-1.7	1.740/-16	-3.0/-1.6	-2.58/-8.67	-5.24/-2.64	-0.38/-1.15	-4.54/-1	-0.77/-1.3	4.370/-69	-1.9/-10.1	-12.96/-6.8	-8.87/-3.29	-3.53/-3.25	-2.79/-1.86
Θ(97.5°)	-3.110/-15	-4.26/-2.08	-3.08/-2.84	-6.16/-5.54	-5/-3.64	-6.27/-5.87	-5.16/-5.37	-1.570/-7.2	-3.32/-2.35	1.26/-3.28	1.82/-1.94	0.61/-0.51	-1.4/-2.42	-5.47/-10.83	-7.33/-3.19	-3.81/-3.1	-5.17/-0.01	1.43/-1.35	2.39/-1.53	-6.45/-17.84	-18.62/-7.32	-10.5/-2.94	-6.88/-4.3	-3.58/-2.94
Θ(105°)	-4.89/-1.4	-4.36/-3.7	-3.71/-3.75	-7.24/-6.8	-3.08/-3.53	-6.69/-5.99	-3.25/-3.13	-2.47/-0.5	-3.56/-2.38	-0.07/-2.51	-0.96/-2.6	-3.49/-2.94	-3.81/-3.74	-8.96/-10.52	-13.83/-13.95	-7.65/-6.85	-10.35/-4.75	-4.36/-2.73	-6.32/-8.23	-13.91/-16.7	-10.77/-0.84	-8.86/-2.28	-6.61/-3.47	-5.52/-5.25
Θ(112.5°)	-8.78/-6.52	-5/-7.1	-5.17/-5.85	-5.89/-5.28	-2.22/-3.47	-5.67/-4.75	-4.5/-7.16	-2.93/-2.69	-1.47/-1.13	-2.24/-1.21	-0.367/-2.33	-10.21/-4.64	-10.06/-13.6	-6.07/-4.81	-10.75/-12.44	-8.73/-7.21	-8.06/-4.33	-17.29/-16.22	-17.96/-15.26	-19.94/-17.83	-18.04/-6.87	-8.68/-3.29	-4.42/-4.23	-3.27/-2.76
Θ(120°)	-7.88/-13.32	-8.56/-9.6	-7.83/-9.57	-4.83/-3.76	-1.21/-3.15	-4.74/-3.48	-3.71/-10.04	-4.5/-3.16	-0.2/-0.5	-5.720/-12	-9.19/-3.38	-11.12/-9.59	-11.34/-12.31	-6.15/-6.01	-11.98/-18.45	-5.08/-8.17	-3.28/-7.81	-3.92/-10.66	-8.89/-10.2	-14.72/-17.58	-9.32/-13.16	-12.1/-5.87	-7.44/-5.52	-9.83/-12.46
Θ(127.5°)	-7.78/-8.35	-13.65/-11.91	-8.67/-10.17	-8/-2.7	-3.19/-4.44	-3.71/-4.68	-5.44/-6.69	-5.60/-7.3	-0.76/-5.88	-5.6/-1.84	-14.59/-5.5	-17.35/-17.57	-17.69/-11.86	-14.98/-19.96	-11.52/-16.63	-7.65/-5.75	-10.04/-6.24	-9.81/-5.83	-8.28/-17.97	-18.47/-17.42	-9.89/-8.58	-11.17/-4.54	-12.6/-6.43	-10.05/-10.38
Θ(135°)	-14.73/-10.91	-14.67/-12.37	-6.02/-4.18	-4.63/-0.47	-3.96/-3.72	-3.9/-3.3	-4.03/-5.78	-8.54/-7.06	-5.34/-3.88	-7.49/-8.96	-10.58/-9.42	-13.59/-17.88	-13.95/-18.1	-15.05/-12.86	-14.84/-10.75	-12.69/-7.29	-8.17/-6.91	-6.51/-6.88	-12.13/-15.74	-6.77/-10.24	-10.97/-12.55	-14.93/-9.38	-17.88/-13.51	-10.62/-10.17
Θ(142.5°)	-15.49/-18.36	-14.81/-9.56	-5.14/-5.89	-5.37/-5.96	-6.79/-7.68	-3.93/-2.4	-3.96/-9.93	-8.7/-6.05	-4.24/-2.64	-7.67/-10.44	-6.78/-17.95	-15.35/-17.88	-15.05/-18.99	-8.57/-8.5	-18.44/-9.17	-6.63/-9.92	-14.31/-16.19	-13.81/-12.94	-7.01/-17.64	-8.63/-11.08	-10.72/-12.98	-12.58/-17.16	-17.82/-18.55	-15.91/-13.29
Θ(150°)	-18.84/-17.56	-14.54/-8.04	-4.53/-3.73	-5.29/-4.2	-3.41/-4.67	-4.16/-5.91	-4.63/-6.68	-5.59/-6.76	-5.68/-4.93	-4.36/-8.35	-10.73/-11.6	-13.86/-18.31	-16.52/-18.56	-14.67/-12.82	-13.06/-12.94	-12.06/-17.7	-18.32/-10.1	-11.01/-12.38	-13.23/-17.4	-17.72/-14.64	-7.81/-8.9	-13.48/-17.66	-1.34/-15.3	-15.09/-15.09
Θ(157.5°)	-11.18/-10.7	-10.8/-8.72	-5.36/-3.94	-5.21/-5.18	-6.37/-5.54	-5.83/-5.16	-5.26/-6.12	-8.19/-14.96	-15.22/-8.82	-6.1/-8.28	-13.02/-13.2	-16.99/-18.12	-17.77/-14.74	-19.24/-18.82	-17.38/-18.93	-16.31/-11.86	-10.59/-15.75	-18.67/-17.52	-18.16/-17.82	-18.77/-18.67	-18.75/-18.47	-14.85/-13.98	-14.65/-17.48	-17.84/-15.29
Θ(165°)	-14.38/-14.41	-13.33/-13.47	-10.1/-7.76	-5.81/-4.84	-4.47/-4.18	-4.73/-5.21	-6.82/-8.25	-12.68/-11.96	-11.85/-12.69	-19.37/-13.1	-11.78/-15.5	-18.13/-18.35	-17.81/-16.93	-11.12/-7.59	-7.437/-5.5	-13.67/-15.34	-12.76/-11.95	-9.46/-10.5	-10.61/-10.02	-11.8/-10.86	-14.51/-18.21	-16.68/-17.82		



Radiated Composite Gain Data_5G6G

Appendix D

Θ(165°)	-18.77/-17.61	-16.84/-15.95	-14.74/-16.15	-17.76/-13.61	-10.78/-11.15	-10.98/-10.04	-9.69/-10.4	-11.76/-13.58	-15.25/-17.84	-19.07/-18.64	-17.35/-17.26	-16.02/-15.98	-15.31/-15.35	-18.31/-18.07	-17.71/-16.16	-14.57/-13.76	-16.57/-19.54	-10.95/-8.69	-9.14/-10.66	-11.81/-12.35	-11.16/-10.43	-10.44/-10.14	-13.13/-17.58	-18.06/-17.65
Θ(172.5°)	-17.06/-19.3	-17.69/-18.67	-18.71/-18.76	-17.93/-18.62	-17.25/-18.51	-16.66/-13.75	-11.73/-12.37	-15.47/-17.64	-18.53/-19.28	-18.12/-18.66	-18.81/-18.87	-18.07/-18.61	-18.74/-18.69	-18.29/-16.26	-15.05/-17.24	-17.34/-17.17	-17.05/-12.66	-10.49/-11.2	-12.43/-13.73	-13.83/-13.05	-12.59/-11.92	-12.91/-12.72	-12.45/-14.28	-15.98/-15.61
Θ(180°)	-18.92/-18.6	-18.16/-16.21	-15.27/-15.5	-13.55/-11.8	-10.73/-11.75	-10.71/-11.07	-13.1/-15.44	-14.2/-12.2	-11.72/-12.56	-13.13/-14.56	-17.15/-19.22	-18.54/-18.3	-17.51/-18.17	-19.02/-16.67	-18.89/-18.06	-18.78/-17.79	-17.36/-18.84	-17.72/-19.68	-12.22/-10.87	-10.36/-10.35	-11.47/-12.75	-14.4/-16.69	-17.86/-18.4	
Freq(Hz)	5.2G/Pol	ThetaAnt. 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°)	-6.96/-6.48	-6.49/-7.57	-8.17/-7.74	-8.35/-10.12	-10.5/-10.17	-11.01/-11.73	-10.93/-9.86	-9.24/-8.87	-7.74/-6.64	-6.45/-6.45	-6.31/-6.51	-6.86/-7.27	-7.37/-6.62	-7.52/-6.55	-6.64/-6.76	-6.42/-6.89	-7.47/-7.32	-6.86/-7.05	-8.34/-8.76	-8.79/-8.07	-7.48/-8.89	-6.39/-7.02	-7.51/-6.66	-6.4/-6.92
Θ(7.5°)	-6.91/-5.98	-4.88/-4.94	-5.07/-4.64	-4.09/-5.03	-5.63/-5.45	-6.03/-7.3	-7.69/-7.61	-8.01/-8.65	-8.72/-8.57	-8.56/-8.18	-7.89/-8.15	-8.23/-7.99	-7.5/-6.88	-6.89/-7.18	-6.43/-6.56	-7.44/-8.19	-9.84/-11.64	-14.03/-13.66	-14.5/-14.29	-11.73/-10.29	-9.35/-8.72	-8.58/-9.09	-9.63/-9.04	-8.22/-7.66
Θ(15°)	-1.61/-4.15	-0.63/-0.45	-1.34/-2.16	-2.47/-3.48	-4.7/-4.65	-5.19/-6.3	-6.94/-7.27	-7.77/-9.38	-10.21/-9.97	-8.54/-6.92	-5.88/-5.33	-4.89/-4.44	-4.97/-6.24	-7.45/-9.9	-14.59/-14.05	-12.39/-11.14	-10.23/-8.91	-10.08/-11.95	-12.49/-15.24	-16.83/-17.17	-14.91/-11.13	-7.57/-5.19	-3.94/-3.48	-2.99/-2.29
Θ(22.5°)	-5.26/-4.7	-3.29/-2.12	-1.61/-1.7	-1.77/-3.03	-6.1/-7.84	-7.86/-8.93	-9.61/-9.4	-10.21/-11.61	-12.22/-10.87	-8.9/-7.34	-6.42/-6.08	-5.77/-5.73	-6.45/-6.26	-6.83/-8.72	-10.39/-10.79	-11.31/-10.76	-8.52/-7.55	-8.47/-8.58	-8.35/-9.41	-13.86/-14.71	-10.3/-7.08	-5.4/-4.27	-4.27/-4.65	-5.34/-5.53
Θ(30°)	-5.91/-5.64	-4.7/-3.83	-3.87/-3.59	-3.42/-4.2	-5.3/-5.31	-4.74/-4.69	-5.22/-6.6	-8.76/-11.51	-13.33/-15.02	-12.92/-8.31	-5.9/-4.76	-3.9/-3.43	-3.81/-4.5	-6.33/-8.85	-11.97/-14.25	-13.07/-10.45	-7.49/-5.61	-5.88/-7.83	-11.26/-11.47	-10.13/-9.15	-6.91/-5.67	-5.73/-5.45	-5.19/-5.07	-5.2/-5.73
Θ(37.5°)	-5.87/-4.18	-2.59/-1.65	-2/-4.22	-6.37/-6.53	-8.76/-5.28	-2.31/-4.2	-3.74/-5.01	-6.17/-9.88	-14.84/-12.86	-8.76/-5.59	-4.96/-5.28	-6.26/-10.59	-15/-13.28	-10.74/-8.28	-7.16/-7.39	-10.15/-13.68	-13.78/-10.92	-8.32/-9.25	-13.08/-15.24	-11.25/-5.64	-4.28/-23.3	-2.44/-2.85	-2.64/-2.9	-3.66/-5.07
Θ(45°)	-3.4/-1.2	0.21/0.6	-0.22/-1.74	-4/-6.29	-8.41/-9.9	-3.23/-1.43	-3.34/-3.03	-3.87/-8.19	-10.47/-7.3	-6.24/-5.1	-2.86/-2.24	-1.1/-2.09	-1.78/-4.88	-6.7/-5.57	-5.71/-4.28	-11.03/-11.37	-5.71/-4.28	-9.59/-7.43	-4.03/-2.84	-0.27/-0.21	-1.17/-4.51	-5.22/-3.01	-2.55/-4.18	
Θ(52.5°)	-3.08/-2.4	-0.46/0.7	-0.09/-2.37	-5.4/-6.69	-6.25/-7.73	-3.27/-1.38	-2.81/-2.68	-3.5/-7.12	-6.1/-3.51	-2.58/-1.78	-0.71/-0.05	0.94/0.59	0.21/-3.27	-5.09/-4.96	-4.4/-6.9	-7.83/-5.33	-5.4/-8.77	-5.81/-4.35	-10.34/-3.13	-1.81/-1.46	0.48/0.89	-2.32/-6.23	-2.35/-0.05	-0.02/-2.56
Θ(60°)	-4.45/-5.18	-2.08/0.18	0.21/-1.13	-2.37/-4.89	-6.41/-6.79	-1.75/-0.6	-2.56/-0.74	-2.27/-5.66	-3.43/-2.23	-1.88/-0.97	-1.07/-0.94	-0.09/0.83	0.08/-3.83	-10.25/-8.16	-2.1/-1.86	-7.49/-7.47	-5.79/-7.67	-7.52/-4.46	-6.99/-1.99	-0.45/-0.65	0.87/1.25	-1.6/-3.79	-1.36/0.83	0.1/-2.46
Θ(67.5°)	-3.25/-3.41	-2.10/-3.36	-0.73/-0.65	-0.52/-2.5	-7.16/-5.31	-1.42/-1.39	-4.49/-1.35	-1.43/-3.54	-4.07/-2.61	-1.05/-0.23	-1.51/-1.07	0.182.32	1.83/-1.23	-4.9/-7.82	-1.6/-1.49	-5.96/-8.13	-8.19/-9.24	-7.03/-4.73	-0.06/-2.74	-1.23/-1.55	-0.44/0.51	-0.06/0.72	-1.43/-0.73	-0.42/-1.34
Θ(75°)	-2.52/-3.66	-0.91/-0.85	-1.45/-0.78	-0.28/-1.38	-5.07/-8.65	-1.92/-1.39	-6.23/-1.47	-1.28/-2.98	-3.84/-3.05	-1.57/-1.2	-2.17/-1.76	0.823.01	2.18/0.48	-2.27/-6.46	-5.17/-3.7	-5.66/-9.34	-9.28/-11.58	-7.24/-4.27	-7.49/-3.71	-2.99/-2.91	-1.73/-0.23	1.01/0.02	-2.74/-1.34	-0.39/-0.4
Θ(82.5°)	-3.24/-2.75	-0.73/-1.35	-1.91/-8.6	-1.58/-1.62	-4.73/-10.26	-3.04/-3.29	-7.29/-3.23	-1.9/-4.49	-4.4/-3.34	-2.57/-3.91	-4.22/-3.18	0.85/2.4	0.4/-0.63	-3.36/-4.3	-7.88/-4.42	-5.15/-7.32	-8.98/-13.47	-7.48/-2.91	-7.64/-2.17	-4.79/-4.95	-2.49/-6.08	0.34/-0.07	-2.53/-2.1	-1.21/-1.33
Θ(90°)	-4.45/-4.48	-1.19/-1.73	-2.31/-3.08	-2.54/-2.21	-4.67/-10.42	-3.41/-4.11	-10.3/-4.8	-2.04/-5.11	-7.2/-3.18	-6.78/-6.78	-7.51/-3.68	0.12/-0.09	-2.24/-0.13	-8.49/-6.43	-7.59/-4.3	-3.57/-9.07	-9.7/-8.72	-9.18/-2.53	-6.87/-6.49	-3.73/-4.15	-1.05/-0.51	-3.08/-3.42	-2.68/-2.77	
Θ(97.5°)	-5.11/-3.94	-2.01/-1.68	-2.63/-5.22	-3.28/-1.43	-5.41/-9.72	-4.68/-5.78	-8.89/-5.9	-3.84/-6.05	-10.24/-9.9	-4.58/-8.86	-9.95/-4.89	-1.42/-3.19	-5.65/-0.59	-2.04/-3.49	-5.46/-3.31	-3.17/-7.15	-7.71/-8.2	-9.1/-2	-4.09/-3.54	-7.68/-7.59	-4.33/-3.58	-2.76/-0.72	-3.15/-6.86	-4.92/-3.89
Θ(105°)	-5.11/-4.03	-2.84/-1.59	-2.19/-5.41	-4.68/-2.02	-4.17/-9.35	-4.31/-16.7	-7.91/-7.11	-8.51/-8.9	-10.28/-7.84	-9.75/-9.09	-8.22/-4.17	-3.31/-7.21	-6.45/-0.71	-2.56/-4.3	-6.44/-4.23	-2.82/-1.02	-8.37/-11.39	-16.64/-3.89	-6.96/-6.11	-11.39/-9.37	-6.24/-6.12	-3.75/-1.42	-5.62/-10.79	-4.82/-4.73
Θ(112.5°)	-4.34/-3.21	-1.97/-1.93	-3.59/-5.04	-3.8/-3.13	-7.06/-9.01	-5.98/-6.35	-8.67/-11.64	-9.27/-11.49	-10.78/-11.8	-14.38/-10.86	-16.24/-10.89	-6.16/-7.05	-9.06/-9.38	-8.47/-8.88	-8.17/-10.57	-12.79/-7.49	-14.47/-7.76	-18.56/-17.74	-16.33/-7.62	-10.34/-8.74	-1.29/-15.4	-8.9/-6.09	-5.26/-3.09	-6.84/-16.57
Θ(120°)	-3.62/-3.8	-2.43/-3.07	-4.41/-4.17	-3.78/-4.9	-8.16/-8.37	-6.72/-8.59	-9.92/-15.68	-9.33/-7.86	-12.03/-19.09	-15.19/-7.64	-7.57/-13.15	-15.2/-12.61	-14.45/-13.66	-15.55/-14.6	-18.39/-18.96	-18.82/-10.93	-18.15/-14.24	-15.98/-12.45	-12.08/-18.08	-18.59/-17.42	-10.78/-8.53	-7.47/-4.62	-8.02/-14.63	-10.93/-4.22
Θ(127.5°)	-2.92/-4.81	-4.7/-5.21	-4.87/-4.88	-6.23/-8.2	-10.71/-12.68	-11.89/-12.49	-9.57/-9.92	-14.05/-18	-10.94/-10.18	-13.31/-12.47	-8.58/-9.99	-11.48/-12.92	-10.68/-9.18	-13.38/-12.69	-10.51/-6.32	-10.45/-15.68	-15.07/-9.57	-13.12/-14.03	-14.03/-12.48	-17.95/-9.45	-5/-4.76	-8.1/-12.88	-10.99/-4.35	
Θ(135°)	-2.36/-5.1	-7.47/-6.63	-6.06/-5.73	-6.12/-7.42	-9.98/-11.15	-10.5/-12.89	-16.02/-16.26	-11.28/-9.4	-14.08/-15.35	-16.44/-13.39	-16.2/-8.62	-6.97/-9.1	-10.65/-7.82	-7.49/-8.86	-8.23/-6.14	-13.74/-13.17	-18.47/-16.76	-14.99/-11.58	-12.89/-11.3	-17.61/-18.59	-15.1/-6.02	-1.84/-4.66	-8.99/-13.6	-7.19/-3.48
Θ(142.5°)	-3.86/-3.83	-6.98/-6.61	-8/-7.31	-7.9/-9.15	-10.97/-15.73	-12.98/-12.64	-13.19/-16.08	-18.13/-17.49	-10.58/-9.68	-18.51/-15.59	-10.42/-7.41	-10.54/-14.13	-8.1/-8.17	-18.99/-18.66	-18.46/-17.29	-18.12/-18.59	-14.39/-12.81	-12.35/-16.13	-19.05/-16.01	-18.2/-10.57	-12.13/-9.27	-10.17/-10.03	-11.94/-11.94	-7.16/-4.62
Θ(150°)	-7.67/-6.88	-6.99/-7.39	-7.67/-8.54	-8.46/-9.92	-15.02/-15.62	-15.82/-13.33	-17.82/-14.83	-16.68/-17.99	-17.74/-14.8	-13.87/-13.4	-17.54/-13.47	-11.93/-10.98	-9.97/-13.58	-15.98/-17.17	-18.55/-15.68	-17.91/-16.48	-12.11/-14.7	-17.79/-18.18	-14.01/-14.9	-12.29/-10.58	-11.6/-12.8	-11.02/-16.32	-10.5/-13	-10.71/-10.3
Θ(157.5°)	-7.07/-7.26	-7.65/-8.18	-7.72/-7.05	-8.27/-10.11	-9.59/-9.85	-11.38/-14.16	-18.13/-19.18	-18.13/-17.47	-19.06/-18.6	-18.71/-13.97	-13.29/-12.07	-11.33/-16.58	-19.01/-18.59	-15.77/-13.64	-16.56/-18.18	-17.31/-16.8	-17.21/-18.82	-18.99/-17.16	-18.99/-16.76	-11.87/-8.45	-7.55/-9.23	-13.83/-18.1	-14.25/-11.36	-9.14/-7.46
Θ(165°)	-8.49/-9.12	-10.08/-9.08	-7.71/-8.13	-10.07/-9.09	-9.82/-16.53	-18.68/-18.56	-18.59/-18.84	-18.09/-19.05	-18.58/-16.15	-14.11/-13.1	-14.18/-15.42	-16.97/-18.19	-17.85/-17.71	-15.68/-13.92	-15.53/-16.28	-18.95/-18.6	-17.48/-15.23	-14.55/-17.73	-18.71/-18.72	-18.77/-18.27	-17.45/-18.48	-19/-17.04	-11.96/-10.34	-9.85/-9.46
Θ(172.5°)	-12.93/-14.03	-15.37/-13.32	-11.94/-12.95	-12.6/-11.64	-11.9/-10.5	-9.61/-11	-13.27/-14.83	-15.99/-16.26	-17.38/-17.95	-19.1/-17.63	-18.18/-19.28	-17.77/-15.79	-15.31/-17.91	-17.79/-17.74	-18.3/-16.97	-14.27/-12.63	-12.72/-12.88	-12.9/-15.64	-18.01/-18.55	-19.09/-19.03	-17.91/-18.7	-18.72/-19	-16.93/-15.14	-15.57/-14.31
Θ(180°)	-15.52/-14.7	-12.42/-13.06	-14.02/-14.74	-15.97/-14.45	-13.01/-13.95	-16.78/-18.44	-17.45/-18.55	-17.61/-17.88	-18.96/-17.87	-17.99/-17.7	-18.24/-18.1	-18.8/-18.73	-18.76/-14.54	-13.87/-14.73	-13.74/-12.24	-12.87/-15.27	-15.56/-18.18	-15.67/-18.18	-18.87/-17.13	-18.31/-18.05	-17.17/-18.28	-17.46/-18.67	-17.67/-16.43	-14.37/-14.85
Freq(Hz)	5.3G/Pol	PhiAnt. 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°)	-9.17/-5.77	-7.48/-8.83	-6.85/-5.47	-4.72/-5.13	-4.36/-4.2	-4.5/-4.2	-5.74/-6.67	-6.98/-6.57	-7.24/-7.4	-7.01/-6.57	-6.25/-6.21	-6.58/-5.91	-6.32/-6.38	-6.11/-6.31	-6.25/-5.7	-5.45/-5.6	-4.28/-4.93	-4.98/-4.73	-5.49/-4.89	-5.29/-5.6	-5.98/-7.13	-8.27/-8.43	-8.91/-10.15	
Θ(7.5°)	-5.47/-6.51	-7.05/-9.43	-10.83/-8.65	-7.62/-8.12	-8.14/-6.77	-5.44/-4.74	-4.43/-4.28	-4.14/-4.49	-5.04/-5.65	-6.57/-8.22	-10.03/-11.82	-12.96/-13.9	-13.27/-11.77	-10.51/-8.32	-6.25/-4.83	-3.84/-3.57	-3.01/-2.92	-2.91/-3.11	-4.86/-7.05	-8.82/-8.87	-8.61/-7.26	-5.84/-5.39	-5.01/-4.59	-4.38/-4.5
Θ(15°)	-6.62/-9.82	-11.92/-13.06	-13.79/-13.06	-9.44/-6.81	-6.9/-6.63	-5.91/-5.42	-5.01/-4.96	-5.56/-7.26	-9.74/-11.08	-10.85/-10.2	-8.8													



Radiated Composite Gain Data_5G6G

Appendix D

Θ(7.5°)	-0.37/-0.4	0.29/-0.02	-0.34/-0.02	-0.84/-2.15	-2.27/-2.65	-4.09/-5.41	-6.29/-7.46	-8.31/-9	-9.41/-8.31	-7.14/-5.78	-4.81/-4.39	-4.35/-4.12	-3.63/-3.97	-4.4/-3.46	-5.55/-6.97	-8/-7.9	-9.96/-10.59	-8.86/-9.24	-9.26/-10.55	-10.32/-14.17	-19/-17.55	-12.12/-7.8	-5.53/-4.2	-2.58/-0.77	
Θ(15°)	-2.74/-2.43	-1.74/-1.43	-1.07/-0.77	-1.1/-2.15	-3.43/-4.38	-6.41/-8.12	-9.78/-11	-12.76/-16.15	-17.93/-18.46	-17.88/-12.92	-10.25/-8.17	-6.34/-6.24	-6.58/-6.26	-6.97/-7.52	-6.58/-6.83	-6.17/-5.4	-5.74/-7.7	-18.16/-8.81	-11.06/-13.39	-15.47/-14.18	-11.49/-9.07	-6.79/-5.84	-4.67/-4.62	-3.65/-2.84	
Θ(22.5°)	-1.71/-1.53	-1.78/-1.74	-1.68/-0.95	-2.01/-0.75	-1.37/-2.47	-5.48/-8.95	-10.61/-12.9	-13.97/-14.12	-14.44/-13.4	-13.91/-8.98	-7.37/-3.75	-1.74/-1.23	-2.91/-2.83	-2.7/-3.9	-6.72/-12.79	-15.88/-10.92	-7.41/-7.62	-8.61/-13.18	-15.76/-15.23	-12.41/-8.65	-6.45/-5.26	-4.49/-2.46	-3.14/-3.11	-1.99/-1.88	
Θ(30°)	-5.04/-4.63	-3.6/-3.08	-4/-5.14	-5.44/-7.47	-6.2/-0.53	-8.83/-8.61	-7/-8.69	-10.38/-7.84	-5.83/-5.67	-5.74/-4.83	-6.6/-3.19	-1.87/-1.93	-1.33/-1.52	-3.2/-6.51	-6.99/-5.8	-7.01/-8.89	-8.72/-7.11	-11.4/-16.54	-12.36/-10.75	-5.48/-3.28	-10.39	0.190/23	-1.23/-3.14	-5.07/-5.63	
Θ(37.5°)	-2.71/-1.97	-0.81/-0.38	0.64/-0.34	-1.12/-2.01	-0.91/-6.66	-10.73/-9.71	-5.78/-7.71	-5.62/-3.82	-3.99/-4.75	-4.5/-2.36	-3.51/-2.12	-2.67/-3.64	-3.58/-3.25	-2.09/-2.38	-4.54/-6.45	-7.95/-6.92	-4.88/-4.49	-6.07/-7.6	-6.36/-5.09	-2.66/-1.06	2.02/-1.35	0.1/-2.06	-4.02/-3.21	-3.39/-3.41	
Θ(45°)	-3.91/-3.02	-0.09/0.65	1.44/-0.13	-1.11/-0.19	-0.81/-3.3	-6.74/-12.33	-8.86/-6.11	-5.52/-5.41	-7.71/-4.26	-5.99/-0.68	-2.15/-0.56	-0.33/-0.43	0.24/-0.64	0.880/7.4	-0.66/-2.46	-3.6/-6.14	-7.34/-6.6	-6.05/-6.42	-2.27/-1.27	0.41/9.3	1.7/-3.99	-2.54/-2.07	-1.18/-1.77	-2.67/-4.4	
Θ(52.5°)	-1.89/-1.78	-0.80/6.1	1.320/5.6	0/0.06	-1.23/-3.22	-5.63/-5.45	-8.2/-6.73	-4.2/-5.7	-9.88/-3.73	-1.390/2.9	1.11/3.2	3.22/3.76	3.832/5.9	2.44/1	-5.19/-7.2	-3.17/-4.79	-8.83/-7.86	-4.01/-4.88	-2.420/5.5	0.992/5.5	1.81/-0.8	-1/-1.53	-0.83/-0.55	-1.27/-1.06	
Θ(60°)	0.70/8.5	-0.61/-0.59	-0.160/0.3	0.050/8.7	-0.41/-2.66	-3.4/-1.26	-2.58/-6.26	-2.3/-3.51	-6.61/-3.11	-0.41/-4.45	2.393/3.8	1.662/2.9	1.85/-0.63	-1.45/-0.94	-1.4/-4.88	-6.03/-3.59	-6.69/-10.21	-5.27/-6.1	-3.3/-3.5	1.312/0.4	1.090/7.8	0.25/-3.59	-1.290/1.7	1.171/3.4	
Θ(67.5°)	1.542/4.6	0.83/-2.63	-3.08/-2.23	-3.09/-0.28	-0.07/-3.84	-2.350/1.1	-0.58/-2.82	-0.99/-1.95	-1.88/-1.34	0.652/0.4	1.462/1.2	1.682/9.1	1.4/-1.51	-6.94/-4.03	-0.86/-0.26	-7.29/-3.23	-6.31/-7.97	-4.18/-5.38	-2.61/-1.55	0.830/8.8	1.38/1.51	-0.63/-4.11	-0.83/-1.02	0.240/7.4	
Θ(75°)	2.022/6	1.46/-2.75	-5.29/-3.12	-3.96/-2.66	-0.98/-4.03	-3.010/1	0.01/-1.83	-0.6/-1.19	0.09/-0.06	0.320/6	0.232/1.5	2.733.88	3.33/4.1	2.25/-5.71	-0.18/-0.08	-7.06/-3.99	4.02/-6.15	-2.8/-3.49	-5.110/3.1	-1.3/-0.02	0.850/6.7	-2.06/-3.03	-0.61/-2.57	0/1.83	
Θ(82.5°)	1.571/1.29	0.58/-4.12	-5.47/-2.48	-5.1/-4.14	-2.13/-4.16	-5.09/-1.46	-0.05/-2.49	-1.14/-0.98	-0.520/1.7	0.17/-0.92	-1.68/-1.64	2.163/1.5	2.31/0.3	-1.43/-5.34	-3.86/-0.47	-3.28/-5.62	-3.47/-6.66	-2.96/-2.57	-5.93/-0.24	-1.4/-1.51	-0.5/-0.49	-2.96/-1.07	-1.87/-2.76	0.692/3.1	
Θ(90°)	0.93/-0.24	-0.2/-5.13	-7.43/-3.82	-5.34/-7.86	-3.44/-7.6	-5.5/-3.27	-2.64/-2.57	-2.82/-1.77	-1.15/-2.02	-1.26/-2.15	-2.930/0.3	0.31/-7.72	1.260/19	-2.11/-2.89	-6.31/-0.59	-0.87/-6.11	-4.65/-8.73	-4.47/-1.91	-8.54/-0.37	-3.11/-2.53	-1.97/-2.22	-2.58/-0.33	-2.01/-2.08	0.741/9.8	
Θ(97.5°)	-0.25/-2.11	-1.44/-4.69	-7.33/-4.49	-5.66/-7.52	-5.89/-6.88	-6.75/-3.37	-4.59/-4.61	-4.75/-3.16	-3.01/-3.41	-2.54/-3.05	-4.8/-1.37	-0.210/0.5	-1.31/-0.28	-2.76/-2.67	-4/-0.39	0.02/-6.26	-11.61/-8.74	-6.09/-1.76	-6.09/-3.07	-4.86/-3.1	-2.94/-4.56	-1.72/-0.1	-2.83/-1.87	0.64/1.71	
Θ(105°)	-1.11/-3.67	-2.27/-4.25	-8.27/-7.67	-5.91/-6.2	-9.11/-6.9	-8.08/-9.2	-7.23/-3.81	-5.55/-5.16	-3.67/-3.77	-8.4/-3.48	-1.68/-1.8	-2.220/1	-4.05/-1.78	-5.01/-4.14	-3.36/-9.66	-6.88/-9.16	-9.54/-6.45	-4.47/-7.41	-6.22/-5.37	-3.58/-4.93	-2.63/-2.28	-2.07/-1.99	-0.850/9.3		
Θ(112.5°)	-3.56/-3.6	-2.27/-3.59	-6.09/-8.61	-8.31/-4.52	-2.95/-6.09	-7.06/-10.21	-13.64/-7.67	-10.4/-4.58	-5.79/-6.11	-8.74/-6.48	-1.81/-3.23	-5.53/-2.77	-4.37/-8.83	-8.84/-5.27	-6.86/-14.61	-10.32/-8.74	-4.11/-6.46	-8.05/-6.76	-6.13/-0.85	-2.16/-2.33	-3.96/-4.21	-2.83/-1.03			
Θ(120°)	-3.51/-3.9	-7.04/-3.44	-3.33/-4.97	-6.73/-4.48	-3.41/-4.87	-7.99/-8.74	-10.02/-7.46	-10.65/-7.65	-7.02/-6.35	-6.49/-10.47	-16.47/-10.1	-5.33/-9.04	-8.69/-6.53	-15.34/-17.92	-13.81/-16.63	-17.99/-7.31	-8.2/-10.63	-9.7/-8.7	-9.2/-10.03	-11.54/-15.45	-8.53/-7.75	-2.56/-4.62	-4.72/-5.45	-4.99/-4.32	
Θ(127.5°)	-1.44/-3.1	-7.58/-6.4	-3.14/-5.14	-5.92/-4.09	-5.63/-4.5	-7.23/-11.89	-9.44/-9.37	-16.49/-9.4	-5.58/-7.63	-11.93/-11.64	-15.85/-14.9	-10.8/-10.61	-3.47/-3.8	-12.81/-6.33	-10.93/-7.66	-5.14/-12.26	-11.86/-14.01	-10.99/-13.69	-14.55/-17.92	-18.08/-12.17	-10.73/-4.48	-3.89/-6.22	-6.05/-6.19	-4.81/-4.7	
Θ(135°)	-4.54/-4.31	-5.8/-6.55	-7.43/-6.35	-5.84/-8.96	-9.15/-11.5	-11.17/-8.75	-14.11/-7.37	-14.12/-12.59	-15.36/-9.32	-10.34/-17.99	-12.89/-5.45	-2.32/-3.98	-7.76/-6.11	-10.71/-8.5	-11.48/-12.06	-18.9/-15.09	-18.86/-16.52	-15.24/-12.03	-19.15/-10.9	-10.93/-10.2	-5.63/-9.54	-7.54/-6.01	-8.16/-6.76		
Θ(142.5°)	-6.99/-6.48	-6.44/-7.12	-8.08/-9.24	-8.59/-7.09	-5.8/-6.04	-7.14/-9.82	-17.74/-16.66	-12.05/-14.62	-18.69/-12.02	-12.73/-11.7	-14.43/-17.79	-11.78/-13.32	-17.86/-12.33	-9.04/-10.76	-18.17/-18.21	-15.19/-12.1	-11.73/-15.89	-19.25/-17.67	-10.82/-10.67	-18.24/-18.1	-8.5/-7.58	-8.55/-14	-6.63/-5.57	-3.74/-6.04	
Θ(150°)	-6.97/-6.44	-4.65/-5.99	-7.41/-7.65	-7.72/-8.3	-7.52/-6.67	-10.36/-10.17	-10.17/-10.7	-12.9/-14.7	-11.84/-10.55	-18.81/-12.16	-10.79/-13.17	-17.2/-3.7	-7.18/-9.23	-8.24/-12.09	-18.63/-18.48	-16.68/-9.51	-10.26/-16.13	-18.1/-9.1	-18.49/-17.93	-17.61/-17	-15.75/-16.91	-12.91/-12.42	-11.42/-8.29	-6.17/-6.31	
Θ(157.5°)	-6.02/-6.27	-7.5/-8.2	-8.44/-10.62	-14.18/-12.81	-16.35/-18.07	-11.34/-9.57	-11.06/-14.85	-18.03/-18.03	-18.18/-17.54	-18.83/-16.5	-19.06/-15.48	-13.56/-14.09	-12.82/-11.81	-13.53/-17.15	-19.05/-16.96	-13.41/-10.81	-13.24/-18.11	-18.73/-17.99	-18.92/-18.21	-16.05/-14.64	-16.88/-17.51	-13.42/-10.97	-9.91/-6.44	-6.16/-7.49	
Θ(165°)	-1.16/-1.18	-10.88/-9.6	-8.92/-9.53	-7.97/-8.14	-9.16/-9.47	-11.53/-16.73	-19.37/-18.44	-16.77/-13.41	-14.06/-18.04	-18.88/-17.77	-18.33/-17.79	-13.88/-13.18	-15.98/-15.57	-13.1/-12.92	-13.74/-13.44	-14.31/-11.96	-9.55/-10.33	-13.83/-14.11	-16.61/-18.35	-18.44/-14.83	-13.48/-15.25	-11.6/-9.7	-11.14/-10.53	-9.75/-10.23	
Θ(172.5°)	-8.34/-10.16	-9.18/-7.61	-8.54/-9.92	-9.97/-13.02	-17.52/-13.21	-12.46/-13.15	-14.7/-18.04	-18.01/-19.38	-18.99/-17.84	-17.74/-18.8	-18.1/-16.76	-15.11/-15.65	-18.2/-17.58	-18.27/-17.22	-13.82/-11.67	-10.24/-9.67	-10.01/-12.06	-15.62/-17.58	-17.83/-17.38	-18.04/-17.05	-15.37/-17.18	-14.61/-10.65	-10.3/-9.78	-9.58/-8.32	
Θ(180°)	-16.53/-13.72	-13.5/-14.44	-14.82/-13.18	-11.66/-10.96	-10.14/-11.15	-12.61/-14.85	-18.34/-18.49	-18.38/-18.3	-17.56/-16.25	-15.78/-14.28	-13.01/-13.42	-14.94/-13.94	-11.51/-11.05	-12.27/-12.42	-13.18/-15.47	-18.96/-18.08	-18.25/-17.56	-15.76/-17.42	-17.52/-18.14	-16.57/-14.91	-14.06/-15.96	-18.59/-16.05	-13.01/-12.91	-14.01/-15.33	
Freq(Hz)	5.785GPol.	PhiAnt.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°)	-6.79/-8	-8.63/-9.2	-9.15/-8.21	-8.03/-9.27	-8.1/-6.31	-5.8/-5.38	-3.86/-2.81	-2.14/-2.06	-2.21/-2.43	-2.35/-2.1	-2.14/-2.25	-3.6/-6.04	-6.94/-7.52	-11.89/-13.68	-12.29/-10.95	-8.11/-7.21	-7.96/-5.29	-3.89/-4.44	-4.66/-3.56	-3.15/-3.27	-3.09/-3.37	-3.73/-3.64	-4.15/-5.17	-5.82/-6.16	
Θ(7.5°)	-7.37/-9.59	-12.74/-13.92	-18.37/-19.77	-7.48/-6.69	-6.89/-6.08	-4.66/-3.94	-3.05/-3.27	-3.23/-3.35	-3.81/-4.46	-4.04/-4.18	-4.99/-5.33	-6.34/-8.84	-8.21/-6.69	-3.38/-7.55	-5.86/-3.62	-6.47/-6.1	-7.87/-8.88	-6.75/-7.2	-5.74/-3.37	-1.99/-1.56	-0.88/-0.86	-1.18/-1.51	-2.34/-3.56	-4.78/-5.88	
Θ(15°)	-9.56/-9.16	-9.07/-10.45	-11.33/-9.8	-8.94/-8	-6.66/-6.16	-6.65/-6.43	-5.61/-4.86	-5.12/-5.34	-5.26/-5.75	-6.55/-7.54	-8.53/-8.95	-9.59/-13.2	-14.05/-10.65	-11.77/-12.53	-8.78/-6.49	-5.78/-5.35	-5.92/-8.92	-10.66/-11.87	-8.98/-5.2	-3.02/-2.28	-2.01/-2.47	-3.52/-4.39	-6.23/-7.45	-7.81/-8.51	
Θ(22.5°)	-8.92/-9.31	-11.4/-17.85	-13.35/-12.25	-17.78/-18.55	-13.94/-7.19	-4.17/-4.61	-6.12/-5.31	-4.71/-7.11	-13.83/-13.32	-7.74/-5.99	-5.32/-4.87	-6.19/-10.22	-17.39/-14.92	-8.83/-8.14	-7.48/-8.49	-10.01/-9.71	-7.49/-6.86	-8.18/-12.46	-11.33/-6.98	-5.2/-6.13	-8.93/-11.07	-9.31/-8.05	-8.23/-7.91	-7.71/-8.34	
Θ(30°)	-7.69/-9.04	-8.89/-14.73	-18.37/-10.45	-10.48/-12.42	-18.53/-11.84	-7.82/-8.75	-12.62/-7.76	-7.15/-14	-11.78/-6.43	-5.44/-4.98	-4.48/-4.41	-6.02/-6.93	-13.43/-18.93	-18.05/-19.21	-18.51/-13.09	-6.96/-5.77	-7.28/-5.96	-8.02/-11.4	-7.81/-6.03	-6.36/-9.85	-12.35/-7.75	-5.51/-7.37	-11.16/-10.86	-7.87/-7.33	
Θ(37.5°)	-10.81/-12.28	-12.11/-12.85	-13.08/-11.84	-7.99/-6.72	-9.56/-17.07	-10.25/-10.25	-18.83/-10.71	-9.73/-18.95	-7.97/-10.3	-8.59/-7.26	-7.06/-6.67	-7.82/-9.91	-12.14/-13.25	-13.77/-12.47	-11.78/-15.02	-9.68/-4.63	-4.51/-7.26	-10.76/-10.36	-8.19/-7.53	-5.57/-1.3	-6.35/-4.72	-10.61/-16.94	-18.65/-11.89	-10.52/-10.54	
Θ(45°)	-10.16/-8.23	-11.84/-19.54	-15.92/-12.37	-9.09/-5.77	-6.16/-11.87	-8.99/-9.25	-11.81/-4.12	-11.51/-15.82	-9.41/-8.55	-4.67/-4.48	-6.39/-8.7	-14.61/-14.11	-12.04/-19.45	-17.21/-15.61	-14.98/-15.63	-18.78/-10.55	-3.76/-3.27	-9.92/-9.78	-11.55/-6.3	-6.37/-8.12	-13.85/-18.37	-12.21/-11.98	-14.83/-13.8	-13.8/-13.89	
Θ(52.5°)	-9.51/-5.41	-8.17/-13.63	-15.73/-14.49	-12.87/-2.6	-6.74/-11.93	-7.45/-7.54	-13.86/-11.99	-14.79/-18.93	-15.76/-9.81	-2.66/-4.87	-3.92/-4.75	-10.21/-18.02	-17.76/-17.42	-16.2/-18.93	-13.43/-18.93	-18.05/-19.21	-18.51/-13.09	-6.96/-5.77	-8.02/-11.4	-7.81/-6.03	-6.36/-9.85	-12.35/-7.75	-5.51/-7.37	-11.16/-10.86	-7.87/-7.33
Θ(60°)	-10.35/-7.33	-8.85/-12.28	-11.37/-13.02	-11.06/-9.07	-7.35/-11.72	-13.18/-9.43	-17.01/-13.19	-14.73/-17.87	-11/-10.36	-4.12/-7.															



Radiated Composite Gain Data_5G6G

Appendix D

Θ(60°)	1.18/0.79	0.12/-0.97	-1.21/-1.28	-0.97/-2.25	-3.14/-2.33	-2.72/-9.29	-2.21/-4.47	-3.4/-1.89	-7.08/-5.65	-4.72/-0.87	2.27/3.64	3.99/2.56	0.7/-2.27	-0.34/-0.11	-6.11/-5.17	-1.77/-3.92	-2.02/-3.5	-13.99/-4.75	-2.37/-0.43	0.03/0.81	1.55/-1.93	0.73/3.5	2.42/2.67	1.27/0.73
Θ(67.5°)	-0.02/-0.49	-2.12/-0.87	0.49/0.11	-0.37/-1.27	-1.79/-0.3	-2.18/-8.01	-2.96/-2.44	-3.22/-3.46	-5.01/-5.15	-3.38/-1.29	2.83/3.63	2.56/0.55	0.74/-3.02	-4.95/-9.5	0.14/-5.25	-1.73/-4.0	-3.98/-4.55	-1.31/-5.1	-2.79/-1.53	0.5/0.03	0.86/-1.68	2.06/3.35	1.27/2.85	0.66/-0.76
Θ(75°)	-1.35/-1.26	-3.42/-0.52	0.6/-0.15	-0.26/-1.49	-1.45/0.28	-0.68/-4.14	-3.79/-2.57	-4.07/-4.61	-3.14/-8.27	-1.64/-2.16	3.17/3.21	3.97/3.47	0.47/-3.82	0.34/0.14	2.17/-3.39	-0.99/-2.75	-6.76/-4.6	-4.98/-4.28	-2.33/-2.55	-0.71/-0.99	1.12/-2.86	1.41/1.63	0.72/2.12	-1.46/-1.27
Θ(82.5°)	-2.34/-1.53	-2.78/-1.85	-0.01/-1.76	-3.26/-1.94	-0.5/-0.04	-0.61/-3	-3.24/-2.11	-4.37/-4.06	-2.72/-12.72	-0.12/-1.09	2.44/2.56	4.414.08	2.45/-1.08	1.58/0.18	1.01/-1.76	-0.28/-1.89	-8.1/-4.44	-1.93/-2.24	-1.15/-1.6	-1.4/-3.39	0.03/-2.39	1.13/0.96	-0.55/0.16	-3.15/-2.48
Θ(90°)	-1.22/-1.21	-3.61/-2.73	-0.99/-2.49	-3.86/-3.25	-1.11/-0.21	-0.62/-2.97	-3.65/-2.84	-4.36/-5.24	-3.79/-13.11	-2.96/-1.48	0.19/0.81	3.39/2.91	0.02/-1.94	1.05/-1.69	-2.17/-1.28	-0.5/-0.17	-6.31/-2.25	-1.97/-4.05	-1.14/-0.95	-3.38/-4.25	-0.9/-2.59	0.13/-0.23	-1.96/-0.93	-2.62/-1.77
Θ(97.5°)	-1.31/-1.16	-5.42/-3.72	-1.24/-3.17	-5.9/-3.29	-4.58/-2.99	-1.99/-1.47	-1.12/-2.99	-4.06/-3.93	-4.85/-4.94	-4.84/-18.34	-4.86/-4.65	-2.23/-2.19	0.62/0.01	-1.44/-0.8	-0.35/-1.96	-0.05/-0.92	-6.72/-9.61	-5.33/-5.87	-2.94/-2.2	-6.22/-5.59	-2.56/-3.05	-0.76/-0.54	-2.27/-2.5	-2.53/-1.69
Θ(105°)	-1.72/-1.82	-4.72/-4.68	-1.78/-4.8	-8.14/-4.63	-4.22/-2.59	-2.61/-3.57	-6/-4.41	-6.1/-7.27	-4.9/-15.25	-7.66/-5.89	-3.85/-3.61	-0.79/-0.7	-0.66/0.12	-0.11/-1.16	-2.25/-2.74	-3.54/-2.56	-10.53/-17.5	-11.42/-8.69	-7.06/-6.57	-8.32/-6.13	-2.52/-3.31	-1.69/-0.84	-2.95/-4.13	-2.83/-1.34
Θ(112.5°)	-4.25/-3.46	-4.69/-3.34	-1.5/-3.51	-5.43/-8.07	-8.56/-3.93	-4.65/-6.13	-7.73/-5.65	-6.91/-9.76	-7.89/-18.97	-9.68/-10.72	-5.29/-6.51	-5.05/0.02	-2.32/-2.6	-4.68/-3.36	-5.76/-3.19	-5.37/-10.09	-10.64/-11.25	-11.25/-7.5	-10.67/-8.53	-10.55/-6.2	-4.79/-5.97	-1.98/-2.9	-2.71/-3.62	-2.81/-3.26
Θ(120°)	-6.08/-5.33	-5.02/-3.8	-3.31/-5.17	-6.83/-11.3	-15.22/-9.48	-10.65/-9.48	-8.21/-7.23	-9.28/-16.14	-6.93/-13.66	-13.93/-8.15	-6.41/-16.37	-5.44/-2.67	-12.46/-5.41	-6.82/-8.03	-9.94/-13.69	-16.5/-15.49	-3.9/-9.1	-6.83/-7.21	-10.64/-11.28	-16.58/-3.88	-4.57/-7.12	-3.59/-3.87	-3.43/-3.76	-2.47/-3.62
Θ(127.5°)	-5.94/-6.21	-4.31/-6.52	-6.87/-5.86	-4.59/-7.29	-7.27/-11.58	-11.71/-9.81	-9.17/-15.09	-10.92/-10.62	-8.09/-6.49	-14.88/-16.06	-12.54/-18.01	-5.02/-12.65	-3.88/-1.49	-5.63/-8.84	-12.22/-14.43	-12.98/-5.15	-10/-13.97	-12.32/-13.2	-18.98/-17.43	-12.14/-4.73	-9.46/-5.58	-4.98/-5.4	-4.57/-4.6	-2.3/-2.77
Θ(135°)	-6.67/-8.62	-5.69/-6.23	-13.93/-13.5	-9.08/-10.37	-8.98/-10.17	-7.34/-10.74	-9.31/-13.72	-6.18/-10.07	-10.5/-7.09	-8.87/-18.73	-8.82/-17.82	-9.72/-17.55	-1.4/-1.42	-6.48/-8.56	-10.64/-10.3	-17.56/-15.52	-18.34/-9.66	-10.79/-15.81	-18.91/-12.28	-13.74/-14.95	-9.63/-5.51	-5.69/-4.67	-6.39/-8.68	-5.37/-6.01
Θ(142.5°)	-5.16/-6.5	-6.08/-6.97	-6.74/-9.45	-18.27/-17.55	-17.92/-12.37	-9.71/-17.57	-9.91/-15.46	-11.08/-15.34	-14.76/-10.97	-12.17/-19.21	-12.54/-15.91	-14.97/-15.88	-10.76/-17.13	-12.9/-18.55	-11.79/-13.96	-18.88/-18.23	-16.98/-13.41	-18.91/-17.92	-12.09/-16.87	-17.51/-8.81	-9.31/-6.78	-9.35/-8.05	-4.61/-5.45	
Θ(150°)	-4.43/-8.54	-13.96/-13.61	-11.28/-13	-16.29/-19.15	-17.86/-18.51	-18.57/-18.13	-17.08/-17.44	-16.36/-11.46	-13.81/-18.27	-10.95/-13.62	-12.91/-9.16	-13.75/-17.79	-8.1/-7.04	-6.76/-6.3	-12.66/-18.08	-13.68/-8.47	-14.03/-18.74	-16.76/-17.07	-18.13/-12.27	-12.39/-16.91	-14.75/-13.44	-11.23/-14.46	-12.12/-8.02	-6.12/-3.71
Θ(157.5°)	-6.3/-4.89	-9.67/-8.91	-8.63/-8.22	-9.96/-14.96	-16.17/-17.98	-19.49/-13.64	-11.31/-10.85	-17.12/-15.95	-13.38/-18.43	-19.37/-17.7	-18.53/-15.5	-13.22/-14.59	-17.49/-17.53	-18.44/-18.74	-14.47/-11.25	-11.25/-17.77	-15.3/-9.93	-9.76/-11.54	-15.16/-15.52	-18.36/-18.34	-14.13/-13.83	-14.19/-12.17	-12.66/-10.46	-1.66/-8.34
Θ(165°)	-8.51/-6.99	-5.5/-5.71	-5.33/-6.04	-8.41/-7.45	-16.77/-10.74	-13.99/-18.2	-16.29/-15.26	-18.75/-17.47	-13.09/-11.07	-13.53/-18.57	-18.42/-18.83	-15.12/-12.27	-18.01/-11.82	-11.86/-15.28	-18.83/-18.85	-16.39/-11.41	-12.12/-14.6	-18.9/-17	-15.12/-14	-17.08/-18.16	-18.25/-18.81	-18.71/-18.01	-18.07/-19.13	-12.08/-8.53
Θ(172.5°)	-11.11/-12.82	-16/-18.79	-17.08/-15.71	-13.29/-12.36	-13.36/-14.36	-16.43/-17.83	-18.4/-18.17	-18.31/-19.3	-18.18/-19.28	-18.54/-17.8	-15.64/-16.45	-17.45/-17.22	-17.61/-15.78	-12.53/-11.94	-11.95/-11	-11.82/-13.57	-12.86/-10.93	-9.56/-10.34	-11.54/-14.64	-17.37/-18.59	-16.23/-14.42	-14.91/-14.7	-12.03/-10.6	-9.18/-9.84
Θ(180°)	-11.36/-12.36	-11.63/-11.03	-14.12/-13.18	-14.72/-16.66	-13.51/-11.24	-10.78/-10.62	-11.66/-12.96	-15.2/-17.42	-17.28/-14.82	-14.03/-13.62	-13.43/-15.94	-17.68/-17.67	-18.08/-18.23	-18.4/-18.5	-17.33/-18.63	-18.68/-17.74	-17.66/-18.81	-18.12/-16	-16.97/-18.04	-17.83/-16.43	-16.03/-15.42	-16.79/-18.69	-14.27/-12.13	-12.38/-11.78
Freq(Hz)	6.475GPol.	Phi/Ant. 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°)	-5.83/-7.61	-9.03/-8.84	-11.93/-18.47	-16.13/-10.55	-8.19/-1.7	-5.07/-3.67	-2.69/-2.07	-2.11/-1.56	-1.26/-1.33	-1.35/-1.67	-2.81/-3.73	-3.48/-3.73	-4.79/-6.15	-8.05/-9.06	-10.31/-12.13	-11.81/-12.2	-11.07/-8.55	-7.22/-6.05	-4.2/-2.3	-3.07/-2.88	-2.41/-1.08	-2.22/-2.68	-2.77/-2.71	-3.76/-4.74
Θ(7.5°)	-3.41/-6.7	-6.02/-6.98	-8.88/-15.21	-18.47/-18.36	-11.91/-7.88	-5.64/-5.26	-1.51/-3.5	-2.76/-2.73	-3.13/-3	-4.5/-5.25	-4.89/-4.32	-5.45/-5.35	-6.58/-5.28	-10.79/-14.6	-13.31/-19.5	-6.38/-4.08	-2.16/-2.01	-1.24/-1.47	-2.01/-2.48	-2.58/-3.04	-3.56/-3.72	-3.61/-3.31	-2.89/-3.4	
Θ(15°)	-3.84/-6.16	-6.57/-7.61	-13.61/-13.54	-17.46/-13.34	-13.42/-6.81	-3.7/-3.91	-3.26/-2.62	-2.74/-4.14	-6.99/-10.07	-9.77/-10.08	-10.11/-10.35	-10.95/-11.02	-9.74/-9.04	-8.77/-6.41	-6.95/-8.5	-11.6/-16.37	-17.56/-9.99	-5.49/-4.89	-5.21/-7.12	-8.01/-7.87	-6.03/-5.04	-5.3/-5.78	-5.46/-4.71	-3.94/-3.7
Θ(22.5°)	-6.95/-10.33	-16.25/-14.67	-14.31/-13.5	-12.78/-15.71	-18.12/-8.03	-14.41/-11.17	-9.83/-5.78	-8.63/-12.52	-11.71/-10.5	-8.23/-9	-9.15/-8.1	-8.21/-7.88	-10.79/-12.57	-11.08/-8.58	-7.98/-9.5	-15.88/-14.36	-9.27/-9.18	-11.03/-8.32	-5.17/-4.6	-4.5/-6.42	-11.28/-14.13	-11.12/-12.74	-6.88/-5.78	
Θ(30°)	-5.7/-7.18	-13.06/-17.58	-17.75/-14.17	-11.27/-8.41	-7.5/-8.62	-9.62/-18.31	-10.37/-9.66	-17.75/-15.55	-14.83/-13.51	-6.35/-4.17	-4.69/-4.8	-5.09/-7.17	-10.31/-12.28	-13.42/-15.33	-17.37/-15.41	-11.12/-16.87	-11.95/-5.46	-4.45/-4.22	-3.16/-4.2	-7.98/-13.98	-13.81/-13.38	-10.43/-7.68	-6.99/-5.51	
Θ(37.5°)	-3.31/-3.49	-10.7/-12.74	-17.75/-17.77	-12.87/-7.81	-6.5/-5.42	-7.09/-13.37	-17.28/-11.14	-18.94/-18.37	-18.07/-9.31	-5.4/-4.83	-8.78/-12.77	-12.74/-11.32	-12.18/-10.32	-11.31/-14.22	-18.42/-18.14	-6.17/-4.32	-8.44/-15.49	-6.36/-3.73	-0.96/-1.25	-4.64/-7.88	-8/-8.96	-11.14/-19.26	-17.98/-16.13	-10.22/-6.2
Θ(45°)	-4.26/-4.81	-6.48/-10.61	-16.36/-13.16	-13.56/-8.92	-8.49/-7.25	-5.9/-12.89	-9.93/-12.06	-19.28/-9.66	-11.88/-7.61	-11.09/-3.48	-8.11/-8.64	-11.45/-18.84	-18.62/-19.19	-18.02/-17.95	-17.87/-13.71	-8.75/-6.78	-7.87/-13.69	-10.41/-5.8	-2.56/-3.38	-5.67/-10.2	-9.42/-9.47	-8.43/-9.23	-11.33/-13.68	-17.42/-8.3
Θ(52.5°)	-6.71/-6.19	-6.46/-8.44	-11.89/-10.78	-15.11/-11.08	-15.76/-10.58	-5.27/-8.58	-7.95/-10.18	-12.39/-10.76	-18.35/-15.81	-5.92/-6.69	-7.43/-3.92	-9.39/-18.86	-13.06/-9.19	-17.84/-18.53	-14.63/-12.63	-12.52/-7.03	-3.69/-4.34	-5.27/-5.39	-5.96/-4.8	-7.81/-11.25	-6.82/-7.77	-4.91/-6.1	-13.26/-17.57	-18.2/-12.11
Θ(60°)	-6.58/-6.38	-10.52/-11.36	-17.73/-13.45	-14.51/-19.13	-14.99/-10.58	-6.41/-11.34	-10.67/-9.96	-9.83/-6.8	-10.24/-18	-11.85/-3.12	-6.69/-1.71	-5.63/-7.71	-13.16/-7.81	-16.13/-17.38	-17.94/-18.72	-11.92/-8.7	-4.73/-3.66	-4.97/-2.98	-5.38/-3.82	-7.68/-9.8	-8.03/-8.78	-7.57/-11.32	-17.97/-19.3	-12.42/-9.3
Θ(67.5°)	-7.47/-10.78	-12.05/-11.17	-15.81/-16.51	-15.32/-17.97	-8.99/-12.92	-12.46/-15.45	-12.08/-16.33	-12.09/-7.72	-6.11/-16.11	-13.96/-7.23	-11.02/-4.99	-8.2/-6.14	-10.62/-9.41	-13.49/-16.06	-16.55/-16.25	-16.37/-10.25	-6.21/-4.08	-3.72/-3.98	-5.17/-5.2	-7.48/-9.11	-7.35/-8.03	-11.21/-17.61	-18.33/-15.91	-12.37/-13.4
Θ(75°)	-6.55/-6.11	-18.86/-13.63	-17.62/-15.42	-15.58/-15.83	-9.41/-12.27	-14.38/-18.02	-10.88/-16.17	-12.94/-9.79	-7.08/-9.61	-17.89/-11.13	-12.23/-10	-11.54/-8.82	-7.28/-17.72	-13.22/-10.84	-18.88/-14.17	-18.91/-16.71	-6.57/-3.04	-4.3/-3.5	-3.62/-4.8	-6.89/-5.69	-5.94/-10.54	-14.88/-12.35	-17.1/-17.8	-14.49/-7.54
Θ(82.5°)	-8.93/-7.38	-18.05/-12.39	-18.76/-14.35	-14.51/-14.44	-15.96/-18.16	-10.99/-15.3	-15.52/-17.62	-14.48/-8.66	-7.72/-15.28	-11.45/-12.12	-11.26/-7.41	-9.05/-16.03	-6.19/-17.41	-15.12/-9	-14.37/-18.85	-17.94/-16.71	-5.94/-1.37	-4.43/-4.36	-3.36/-3.15	-5.34/-6.6	-6.69/-11.26	-13.12/-9.65	-18.37/-15.04	-10.75/-9.51
Θ(90°)	-11.75/-6.74	-19.01/-14.64	-17.6/-12.81	-10.06/-13.16	-16.53/-19.35	-13.54/-15.26	-16.23/-14.4	-17.06/-11.47	-10.94/-15.69	-10.65/-15.72	-10.7/-5.57	-4.81/-18.16	-10.35/-15.85	-17.58/-8.39	-16.71/-18.08	-14.52/-11.27	-4.29/-2.5	-5.89/-5.06	-4.64/-6.3	-5.55/-5.21	-5.11/-10.12	-11.93/-8.31	-12.63/-13.25	-13.6/-12.36
Θ(97.5°)	-12.19/-8.39	-18.95/-14.69	-17.18/-10.9	-10.03/-11.24	-15.16/-16.12	-11.09/-13.13	-14.82/-11.69	-18.43/-9.77	-17.71/-13.6	-14.54/-18.2	-13.47/-6.18	-4.18/-10.96	-19.02/-15.51	-15.43/-14.83	-12.38/-6.17	-4.73/-8.88	-11.09/-15.3	-5.97/-7.76	-6.09/-5.44	-3.29/-13.92	-9.66/-7.24	-13.22/-13.84	-12.92/-11.07	
Θ(105°)	-14.58/-7.36	-18.69/-13.5	-18.45/-15.14	-18.32/-10.42	-14.99/-18.67	-6.95/-10.99	-12.91/-7.74	-12.75/-12.91	-16.81/-14.53	-13.26/-18.8	-18.57/-11.93	-4.99/-10.16	-16.36/-16.55	-18.31/-13.91	-16.78/-13.52	-17.83/-10.48	-11.38/-16.65	-11.91/-11.78	-5.15/-8.6	-6.07/-4.87	-13.91/-15.46			



Radiated Composite Gain Data_5G6G

Appendix D

Θ(105°)	-1.21/-3.21	-5.66/-2.78	-5.46/-5.61	-2.05/-3.74	-5.4/-7.02	-4.26/-5.53	-6.92/-5.35	-7.35/-6.85	-7.99/-8.65	-10.14/-7.89	-3.56/-2.01	-2.10	-2.51/-2.39	-1.4/-3.57	-3.13/-10.35	-2.27/-4.35	-14.67/-12.74	-12.93/-11.11	-8.95/-8.06	-13.64/-5.45	-4.48/-10.52	-3.9/-1.79	0.22/0.29	-2.56/-4.23
Θ(112.5°)	-2.97/-3.6	-6.83/-3.72	-5.6/-0.7	-2.75/-6.08	-6.13/-5.76	-7.1/-8.72	-6.77/-5.68	-5.82/-4.84	-7.61/-9.38	-13.62/-13.51	-8.4/-6.09	-2.72/-3.47	-3.25/-4.72	-8.38/-7.81	-7.96/-7.37	-4.99/-11.95	-12.54/-6.34	-10.69/-9.9	-7.86/-19.18	-18.1/-8.6	-10.85/-5.49	-4.66/-2.93	-1.8/-2.37	-2.75/-5.12
Θ(120°)	-5.03/-4.96	-7.44/-7.63	-5.56/-5.1	-6.12/-5.78	-6.93/-4.82	-4.3/-3.32	-4.65/-3.78	-6.7/-6.6	-9.58/-6.15	-17.92/-9.19	-11.78/-9.6	-7.78/-9.24	-4.71/-4.34	-8.89/-11.54	-15.53/-11.97	-11.25/-8.99	-3.83/-7.01	-10.49/-11.38	-7.91/-13.97	-12.16/-7.17	-10.66/-7.53	-3.55/-2.46	-3.74/-4.39	-3.55/-7.54
Θ(127.5°)	-4.27/-5.75	-8.5/-12.4	-8.4/-7.2	-9.09/-7.7	-7.34/-5.06	-3.57/-4.15	-7.28/-7.61	-6.87/-9.27	-8.77/-6.23	-12.02/-9.13	-10.58/-6.91	-13.11/-4.26	-4.94/-3.45	-9.17/-5.23	-3.94/-18.29	-9.29/-9.12	-9.18/-10.22	-9.12/-19.24	-14.24/-17.56	-8.18/-11.96	-17.75/-4.9	-5.74/-3.36	-4.87/-2.64	-6.76/-8.21
Θ(135°)	-7.07/-7.2	-10/-15.16	-9.88/-7.69	-8.14/-14.17	-18.94/-13.13	-11.65/-6.99	-13.38/-8.37	-8.16/-11.44	-10.9/-8.32	-7.04/-11.87	-18.46/-13.43	-10.43/-8.9	-6.6/-2.55	-7.26/-18.01	-12.1/-18.33	-18.93/-6.82	-12.22/-6.11	-13.58/-13.7	-17.68/-14.43	-8.78/-17.96	-10.49/-4.1	-4.71/-4.99	-7.76/-3.86	-7.43/-8.08
Θ(142.5°)	-10.59/-7.78	-7.55/-9.94	-10.15/-6.82	-5.99/-8.91	-9.7/-11.14	-9/-6.48	-11.96/-12.58	-13.81/-11.67	-15.84/-11.53	-11.21/-12.54	-18.36/-16.1	-13.27/-14.16	-7.98/-5.48	-15.11/-8.38	-11.05/-15.67	-14.06/-12.66	-14.98/-15.99	-18.51/-18.39	-17.79/-14.56	-13.48/-11.65	-7.06/-7.28	-5.58/-6.04	-7.11/-5.72	-10.05/-10.11
Θ(150°)	-12.19/-9.4	-8.26/-8.2	-12.79/-15.26	-10.13/-9.78	-7.4/-9.77	-13.21/-8.66	-12.49/-13.76	-17.11/-18.23	-18.44/-17.01	-13.47/-11.33	-17.77/-11.07	-18.54/-15.44	-8.1/-8.4	-9.89/-10.42	-19.35/-11.15	-16.25/-17.49	-16.98/-11.87	-17.41/-18.49	-16.8/-17.25	-17.56/-13.35	-11/-12.62	-14.35/-9.58	-4.96/-7.47	-13.14/-18.72
Θ(157.5°)	-9.91/-6.37	-6.64/-6.91	-9.21/-11.14	-16.42/-17.92	-17.27/-17.29	-18.61/-14.69	-16.14/-18.02	-17.89/-18.86	-17.63/-18.63	-18.14/-17.82	-17.1/-13.48	-14.01/-11.78	-10.88/-14.46	-12.41/-9.75	-7.19/-10.28	-16.46/-12.83	-12.61/-18.25	-18.15/-17.91	-18.89/-18.67	-17.67/-18.63	-17.03/-17.29	-18.7/-15.21	-10.49/-11.83	-14.15/-11.76
Θ(165°)	-16.27/-17.23	-11.48/-8.13	-7.91/-8.68	-11.3/-15.53	-19.05/-18.27	-18.6/-19.1	-18.43/-18.95	-17.89/-18.12	-18.74/-19.04	-16.29/-15.68	-17.8/-18.36	-18.52/-15.31	-17.67/-17.48	-16.61/-18.1	-17.68/-18.03	-15.24/-16.01	-17.66/-15.87	-15.6/-12.94	-18.21/-18.93	-17.51/-17.2	-16.64/-17.96	-18.18/-16.62	-13.17/-11.5	-11.52/-15.64
Θ(172.5°)	-19.12/-16.71	-16.91/-14.57	-12/-10.88	-9.78/-9.59	-9.72/-12.02	-16.63/-18.15	-18.69/-18.84	-18.34/-18.7	-17.62/-18.18	-18.9/-19.24	-17.51/-18.96	-18.52/-17.88	-16.84/-17.87	-17.55/-18.42	-17.51/-17.88	-18.66/-19.45	-18.68/-17.73	-18.96/-17.62	-18.13/-18.57	-17.47/-17.93	-18.22/-18.26	-17.31/-17.38	-19.05/-17.87	-18.61/-16.53
Θ(180°)	-14.58/-17.91	-13.05/-14.83	-18.17/-16.07	-17.42/-14.91	-14.77/-17.51	-15.3/-15.75	-18.7/-18.8	-17.3/-18.74	-18.32/-17.99	-17.56/-17.48	-18.97/-18.71	-18.14/-17.3	-18.86/-18.63	-14.95/-15.19	-16.72/-13.86	-16.77/-17.36	-17.02/-19.23	-17.06/-16.81	-18.55/-18.83	-18.4/-17.71	-18.59/-18.71	-17.56/-18.09	-16.47/-14.99	-16.7/-16.08
Freq(Hz)	6.995GPol.	Phi/Ant. 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°)	-8/-11.43	-11.99/-13.27	-14.03/-14.55	-18.33/-18.49	-14.45/-14.58	-18.26/-16.29	-13.52/-11.12	-9.71/-8.32	-7.46/-7.22	-6.7/-6.17	-5.44/-5.37	-6.28/-5.63	-5.78/-7.6	-8.63/-9.8	-12.75/-15.07	-18.14/-17.76	-18.71/-11.38	-8.37/-7.53	-6.74/-5.23	-4.35/-3.96	-3.97/-4.1	-4.03/-4.01	-5.15/-5.36	-6.32/-7.03
Θ(7.5°)	-5.13/-7.43	-7.8/-9.83	-12.72/-18.21	-19.14/-18.54	-13.5/-10.04	-8.15/-5.93	-5.05/-3.43	-2.43/-1.78	-1.89/-2.5	-3.52/-4.51	-6.57/-8.09	-9.78/-9.96	-10.12/-11.71	-13.82/-16.61	-18.75/-16.47	-16.75/-13.39	-13.84/-16.3	-14.11/-17.13	-12.01/-9.26	-8.12/-6.81	-5.73/-5.5	-5/-4.43	-4.36/-4.54	
Θ(15°)	-9.77/-13.96	-18.9/-17.36	-18.45/-18.96	-18.59/-16.52	-14.73/-16.16	-15.07/-12.11	-9.09/-6.38	-4.66/-3.84	-3.68/-5.27	-8.08/-11	-13.96/-13.26	-11.97/-10.37	-8.65/-7.23	-7.13/-7.28	-8.34/-11.93	-15.8/-16.91	-14.28/-16.59	-16.77/-18.82	-10.33/-6.69	-4.2/-3.78	-4.97/-6.77	-8.34/-6.85	-5.78/-5.52	-5.93/-7.31
Θ(22.5°)	-10.87/-8.8	-9.12/-9.46	-11.26/-10.81	-11.65/-6.53	-8.12/-13.7	-9.82/-17.53	-14.57/-12.3	-9.77/-10.75	-12.49/-13.27	-13.52/-14.47	-18.24/-17.62	-13.54/-11	-10.3/-8.58	-10.07/-12.8	-10.35/-10.99	-9.29/-11.45	-17.91/-18.3	-8.67/-6.12	-2.73/-1.1	-0.75/-3.3	-7.67/-15.67	-10.68/-7.24	-5.84/-6.84	-8.96/-10.41
Θ(30°)	-5.09/-6.35	-6.67/-7.41	-8.8/-10.21	-10.63/-7.04	-8.5/-14.92	-14.73/-11.84	-17.1/-17.6	-14.87/-18.8	-13.77/-14.05	-13.65/-9.02	-7.12/-8.57	-9.23/-11.01	-10.62/-12.96	-18.61/-18	-15.89/-16.91	-15.16/-14.91	-17.81/-11.78	-6.17/-4.81	-3.73/-5.36	-8.08/-6.78	-8.33/-8.59	-11.03/-11.29	-11.23/-10.26	-8.61/-6.27
Θ(37.5°)	-8/-9.34	-5.26/-5.15	-5.65/-11.72	-10.71/-13.27	-9.09/-5.5	-9.36/-6.18	-9.96/-10.23	-9.59/-13.31	-13.99/-7.73	-4.5/-3.87	-5.25/-10.74	-18.81/-14.2	-12.52/-11.22	-7.54/-8.43	-15.03/-18.56	-9.57/-11.81	-16.18/-8.32	-4.76/-5.39	-5.72/-8.38	-7.97/-7.04	-10.25/-9.99	-6.29/-7.91	-14.69/-17.32	-10.53/-7.83
Θ(45°)	-9.73/-6.44	-4.58/-6.09	-11.13/-17.57	-17.66/-17.29	-8.17/-15.9	-7.63/-5.63	-5.49/-7.89	-11.99/-14.09	-13.67/-8.31	-4.89/-13.88	-19.41/-11.13	-12.67/-18.99	-12.32/-30.15	-18/-11.14	-6.68/-9.01	-14.83/-11.94	-6.7/-5.3	-3.66/-4.07	-8.89/-9.52	-12.94/-9.51	-6.46/-11.1	-19.26/-14.23	-8.01/-6.85	
Θ(52.5°)	-6.51/-4.96	-7.57/-11.02	-18.61/-18.14	-13.3/-17.78	-10.34/-8.16	-7.51/-5.07	-8.99/-7.57	-8.38/-17.43	-8.22/-17.59	-10.07/-2.75	-2.9/-8.92	-15.3/-15.6	-10.43/-8.82	-18.06/-13.51	-14.96/-13.55	-10.14/-12.77	-9.29/-6.82	-3.65/-3.16	-2.5/-3.08	-6.47/-7.14	-9.93/-11.87	-18.3/-18.52	-17.91/-17.49	-9.95/-8.16
Θ(60°)	-6.9/-5.83	-8.16/-10.76	-15.97/-18.28	-13.61/-16.99	-18.38/-10.39	-8.98/-9.34	-9.56/-6.2	-9.01/-11.5	-5.27/-16.35	-9.2/-6.97	-3.73/-3.34	-6.32/-10.61	-16.7/-8.24	-13.27/-9.83	-16.55/-14.76	-16.18/-13.56	-6.7/-7.11	-4.84/-5.05	-5.46/-5.38	-9.18/-8.71	-9.97/-18.07	-11.9/-18.37	-15.84/-16.98	-13.17/-14.1
Θ(67.5°)	-7.21/-9.15	-6.36/-14.14	-17.54/-16.5	-13.96/-15.5	-10.68/-19.25	-10.41/-7.44	-17.96/-7.82	-7.36/-6.06	-3.4/-9.91	-8.94/-11.43	-7.65/-4.18	-8.98/-8.15	-17.71/-14.84	-14.29/-11.78	-18.21/-12.14	-16.22/-14.69	-6.83/-4.89	-5.95/-8.88	-5.48/-8.98	-10.77/-9.14	-9.28/-10.88	-14.64/-17.66	-9.61/-12.44	-13.34/-9.1
Θ(75°)	-8.95/-11.63	-6.86/-18.49	-13.98/-17.96	-11.7/-15.74	-10.73/-18.99	-9.09/-11.78	-10.81/-9.23	-14.05/-6.36	-4.29/-5.42	-12.05/-10.52	-13.89/-6.62	-14.44/-7.93	-15.17/-14.39	-9/-12.76	-15.37/-9.02	-18.32/-18.78	-8.47/-8.54	-8.48/-8.51	-5.66/-8.18	-13/-8.48	-6.15/-11.87	-12.64/-13.24	-11.26/-12.35	-9.96/-10.02
Θ(82.5°)	-8.11/-11.93	-7.93/-18.55	-14.42/-18.27	-10.44/-13.8	-13.34/-18.08	-9.31/-9.55	-19.01/-11.63	-17.89/-7.03	-5.53/-4.76	-16.47/-12.13	-13.84/-4.45	-11.61/-10.63	-11.88/-12.6	-10.26/-13.7	-16.07/-8.18	-18.14/-18.81	-7.64/-6.92	-6.15/-7.39	-3.84/-7.61	-12.51/-9.95	-7.06/-8.58	-10.49/-12.41	-10.73/-15.06	-10.49/-8.89
Θ(90°)	-8.22/-16.75	-10.68/-18.18	-13.33/-16.9	-10.9/-11.38	-18.51/-14.21	-14.08/-8.4	-9.39/-13.88	-16.9/-10.98	-7.57/-6.98	-17.44/-12.89	-14.77/-4.29	-7.55/-17.88	-12.88/-7.13	-13.64/-8.96	-17.35/-11.96	-15.37/-16.86	-8.13/-5.21	-4.69/-12.24	-6.54/-10.5	-11.5/-7.49	-6.6/-9.63	-8.81/-11.93	-9.21/-17.72	-9.66/-9.63
Θ(97.5°)	-8.07/-16.76	-13.44/-18.04	-12.77/-15.6	-10.73/-12.62	-18.11/-13.3	-19.29/-7.53	-7.39/-10.49	-12.64/-13.73	-9.9/-9.96	-17.45/-16.83	-11.91/-5.55	-6.25/-13.96	-14.46/-8.78	-17.65/-11.6	-17.82/-15.46	-10.35/-10.58	-4.86/-10.63	-10.32/-10.99	-10.35/-10.56	-5.86/-8.46	-6.54/-9.59	-7.78/-10.92	-9.31/-15.15	-10.27/-13.7
Θ(105°)	-8.2/-16.84	-18.86/-19.11	-11.34/-12.33	-14.38/-11.13	-18.04/-12.16	-18.46/-10.71	-8.36/-11.22	-8.68/-17.34	-11.69/-12.71	-15.14/-18.21	-9.82/-8.42	-16.67/-7.77	-18.69/-8.53	-13.82/-13.18	-17.8/-12.67	-9.18/-10.08	-9.47/-15.71	-12.3/-7.29	-9.33/-8.63	-8.76/-9.36	-5.17/-10.78	-8.6/-12.3	-8.59/-11.18	-13.85/-13.85
Θ(112.5°)	-12.26/-13.72	-18.76/-17.81	-14.85/-13.05	-13.28/-13.4	-13.82/-18.65	-17.55/-14.66	-10.71/-11.13	-9.78/-18.35	-16.92/-18.41	-13.35/-18.39	-17.12/-14.11	-7.93/-12.68	-12.78/-11.82	-12.14/-19.14	-12.51/-11.69	-8.44/-7.58	-14.35/-12.55	-14.79/-8.57	-8.7/-12.85	-10.12/-7.89	-6.52/-9.03	-7.33/-8.89	-10.03/-11.1	-10/-18.26
Θ(120°)	-15.67/-12.65	-17.48/-18.13	-15.25/-8.98	-13.84/-14.73	-18.13/-16.43	-16.89/-15.05	-14.99/-10.39	-7.73/-5.99	-8.54/-15.85	-13.04/-10	-16.94/-16.92	-16.53/-12.77	-9.54/-17.61	-10.27/-19.11	-16.34/-10.24	-4.61/-8.64	-6.38/-8.22	-16.47/-11.6	-7.39/-8.67	-10.53/-4.21	-3.25/-18.65	-7.14/-8.43	-8.4/-9.87	-10/-18.87
Θ(127.5°)	-10.75/-8.36	-15.05/-17.54	-18.17/-11.17	-11.59/-12.72	-14.96/-9.73	-12.83/-11.64	-9.1/-8.01	-3.73/-4.76	-18.98/-8.32	-18.09/-9.97	-11.55/-18.9	-14.54/-9.35	-9.69/-13.71	-16.94/-11.99	-13.07/-17.96	-10.76/-14.04	-9.73/-7.61	-17.11/-12.6	-11.93/-6.98	-9.54/-6.91	-5.05/-10.05	-12.9/-11.45	-9.37/-8.69	-16.07/-18.59
Θ(135°)	-18.65/-11.03	-16.43/-16.93	-18.21/-12.15	-10.34/-9.66	-11.86/-10.18	-14.11/-14.77	-11.49/-8.61	-10.27/-10.74	-7.84/-8.8	-7.59/-10.86	-10.5/-14.19	-12.85/-13	-11.91/-14.72	-17.31/-14.97	-14.9/-16.68	-12.45/-10.05	-5.79/-12.53	-18.03/-10.19	-7.72/-6.41	-7.06/-12.29	-11.97/-7.1	-3.83/-5.88	-10.84/-16.05	-19/-18.78
Θ(142.5°)	-13.55/-13.86	-9.51/-9.55	-18.06/-17.87	-14.76/-12.34	-13.18/-12.13	-8.24/-8.9	-9.52/-18.88	-13.2/-8.62	-4.73/-7.99	-12.42/-7.6	-9.76/-19.14	-13.63/-11.62	-16.05/-17.4	-11.73/-17.85	-16.15/-9.81	-12.48/-18.79	-17.56/-18.84	-11.07/-14.76	-7.42/-11.4	-10.61/-10.84	-17.27/-8.07	-5.02/-5.77	-10.88/-18.01	-18.51/-18.91
Θ(150°)	-10.75/-8.36	-10/-10.81	-14.46/-13.53	-18.17/-18.48	-17.94/-18.44	-10.74/-11.24																		



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Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	5.33	4.93	5.5	4.83
Ant. 2 Max Gain (dBi)	5.41	4.54	5.26	5.39
Ant. 3 Max Gain (dBi)	5.95	5.96	4.82	4.77
Ant. 4 Max Gain (dBi)	5.79	5.88	5.89	5.91
Ant. 1 Polarization/Θ(°)/Φ(°)	Theta/67.5/352.5	Theta/67.5/345	Theta/60/0	Theta/67.5/307.5
Ant. 2 Polarization/Θ(°)/Φ(°)	Theta/52.5/7.5	Theta/60/225	Theta/67.5/285	Theta/75/180
Ant. 3 Polarization/Θ(°)/Φ(°)	Theta/60/315	Theta/75/127.5	Theta/75/292.5	Theta/82.5/127.5
Ant. 4 Polarization/Θ(°)/Φ(°)	Theta/75/60	Theta/75/157.5	Theta/75/165	Theta/75/157.5
Max Gain (dBi)	5.95	5.96	5.89	5.91
DG [1SS] (dBi)	9.23	8.77	9.49	9.13
DG [2SS] (dBi)	6.23	5.96	6.49	6.13
DG [4SS] (dBi)	5.95	5.96	5.89	5.91



Radiated Composite Gain Data_6G (4TX)

Appendix E

Θ(22.5°)	-4.08/-5.52	-5.3/-4.21	-4.65/-5.79	-7.23/-6.48	-5.43/-4.15	-3.51/-3.79	-5.39/-6.68	-6.61/-5.91	-3.99/-2.97	-3.09/-4.22	-5.58/-5.12	-3.96/-3.81	-4.08/-4.84	-4.61/-4.14	-4.28/-5.01	-5.89/-7.89	-9.54/-8.38	-5.65/-3.7	-3.13/-4.59	-7.02/-8.13	-5.75/-4.36	-3.5/-3.49	-4.5/-5	-4.95/-3.7
Θ(30°)	-3.86/-4.3	-5.33/-4.78	-6.05/-7.74	-3.39/-1.9	-4.15/-5.82	-4.89/-5.68	-7.56/-7.41	-5.92/-5.99	-5.2/-3.67	-4.79/-6.38	-5.88/-4.58	-5.72/-5.81	-5.41/-4.84	-5.31/-7.66	-8.16/-7	-6.89/-9.23	-10.71/-8.85	-7.82/-5.14	-4.39/-5.42	-6.45/-6.48	-5.69/-6.32	-4.73/-2.39	-3.52/-5.85	-5.76/-3.67
Θ(37.5°)	-5.27/-6.6	-5.25/-5.44	-6.8/-8.54	-6.21/-4.25	-3.64/-2.88	-3.77/-7.34	-8.72/-8.1	-4.61/-6.84	-4.87/-5.48	-6.3/-7.96	-7.48/-5.42	-5.99/-5.2	-4.31/-4.76	-5.09/-7.15	-8.35/-6.83	-10.38/-11.33	-12.31/-7.34	-6.76/-6.7	-6.58/-9.66	-10.37/-8.39	-9.53/-9.82	-7.62/-3.89	-5.49/-7.85	-6.5/-5.24
Θ(45°)	-8.27/-8.49	-6.03/-6.52	-5.58/-6.77	-8.46/-7.82	-3.78/-3.73	-4.95/-7.77	-10.9/-8.78	-6.03/-5.43	-5.6/-3.97	-5.73/-4.16	-5.21/-6.3	-3.7/-6.42	-5.75/-4.47	-6.96/-6.77	-6.49/-7.39	-7.98/-7.28	-9.55/-5.49	-4.65/-7.94	-7.63/-6.47	-9.89/-10.08	-11.46/-10.1	-8.41/-8.36	-6.25/-3.92	-6.46/-10.44
Θ(52.5°)	-10.25/-8.74	-5.92/-6.33	-6.25/-5.96	-7.62/-4.82	-3.01/-4.95	-6.96/-7.76	-7.93/-7.87	-7.52/-6.06	-7.48/-4.82	-3.75/-5.77	-8.06/-6.51	-4.72/-8.3	-8.91/-5.88	-9.17/-10.89	-9.39/-7.88	-9.07/-9.77	-9.78/-4.76	-2.71/-7.22	-8.85/-8.42	-8.75/-9.33	-8.97/-6.31	-5.28/-6.54	-7.14/-65	-7.37/-11.59
Θ(60°)	-8.54/-8.23	-6.92/-6.68	-7.36/-5.1	-6.68/-3.59	-2.66/-4.83	-10.41/-7.51	-6.4/-8.59	-6.51/-6.9	-8.15/-3.79	-3.15/-4.39	-6.85/-9.44	-8.43/-11.21	-7.83/-6.08	-5.05/-7.92	-10.1/-8.42	-8.65/-7.88	-10.33/-7.82	-4.74/-7.16	-10.2/-8.95	-8.54/-8.68	-7.54/-4.74	-4.85/-5.67	-6.76/-4.5	-5.49/-9.4
Θ(67.5°)	-5.76/-9.37	-7.85/-9.37	-6.5/-4.43	-6.13/-3.08	-3.44/-7.09	-10.72/-8.91	-7.76/-10.15	-5.28/-7.12	-7.14/-3.36	-3.82/-6.73	-7.43/-11.06	-9.01/-9.56	-7.28/-3.77	-5.45/-7.22	-8.74/-9.88	-8.91/-6.9	-8.48/-7.35	-7.62/-6.8	-10.14/-8.84	-8.01/-10.97	-6.39/-6.89	-6.07/-5.17	-7.71/-4.88	-5.55/-5.92
Θ(75°)	-8.14/-10.33	-7.97/-10.69	-8.38/-5	-7.57/-4.06	-4.21/-8.2	-10.29/-8.5	-7.71/-10.84	-4.15/-5.63	-7.3/-6.18	-5.2/-7.71	-10.85/-11.85	-7.6/-7.87	-6.72/-4.23	-4.76/-6.47	-7.76/-10.67	-8.61/-4.96	-7.18/-7.93	-7.54/-5.79	-7.01/-7.59	-8.81/-12.1	-7.75/-8.74	-8.33/-6.27	-8.3/-8.54	-7.51/-5.13
Θ(82.5°)	-9.65/-9.02	-9.45/-10.31	-8.38/-5.17	-9.22/-6.95	-6.19/-7.9	-9.05/-8.27	-9.32/-10.39	-5.46/-6.66	-8.87/-7.64	-7.34/-11.32	-9.4/-10.84	-9/-6.88	-7.83/-5.19	-5.14/-7.62	-7.99/-11.71	-8.71/-5.13	-6.46/-10.29	-7.83/-6.01	-6.98/-7.49	-8.5/-8.92	-7.02/-9.72	-8/-6.35	-9.23/-9.61	-8.85/-5.51
Θ(90°)	-9.91/-6.58	-8.69/-11.15	-8.99/-6.25	-10.4/-9.48	-7.18/-7.99	-7.6/-8.93	-9.89/-10.19	-8.71/-7.27	-9.37/-9.44	-9.72/-11.65	-9.51/-7.98	-10.47/-7.1	-7.09/-9.62	-6.04/-8.35	-10.25/-12.85	-10.2/-6.98	-7.94/-8.05	-9.5/-5.61	-8.14/-7.38	-7.31/-8.72	-7.24/-9.43	-9.34/-6.35	-7.55/-9.87	-10.09/-6.61
Θ(97.5°)	-11.16/-7.58	-12.35/-11.5	-10.71/-13.74	-9.15/-10.57	-7.89/-8.05	-9.36/-10.08	-10.01/-11.66	-9.93/-8.65	-10.2/-10.91	-9.34/-11.15	-11.25/-8.66	-9.88/-7.68	-8.64/-10.14	-6.88/-10.66	-10.86/-12.83	-11.34/-9.2	-9.3/-13	-9.66/-6.83	-11.14/-7.33	-10.61/-9.08	-7.99/-10.29	-11.23/-8.08	-6.62/-10.77	-9.13/-8.1
Θ(105°)	-10.88/-9.87	-11.74/-11.86	-10.49/-6.74	-9.15/-10.7	-7.89/-8.39	-7.5/-10.76	-9.38/-11.5	-12.85/-10.41	-10.24/-10.12	-10.13/-10.29	-12.83/-9.49	-9.08/-9.29	-9.7/-8.26	-9.52/-10.88	-11.03/-12.95	-9.93/-11.02	-12.39/-9.87	-10.35/-7.55	-11.31/-9.35	-12.4/-10.84	-10.24/-9.29	-9.46/-8.88	-7.97/-9.23	-11.24/-9.16
Θ(112.5°)	-12.1/-11.07	-9.68/-12.02	-11.6/-7.63	-10.3/-9.31	-7.77/-8.09	-10.46/-11.47	-9.93/-10.52	-9.55/-11.08	-9.88/-8.69	-8.85/-10.2	-11.52/-10.02	-8.69/-9.14	-11.04/-7.6	-8.07/-10.95	-11.35/-10.35	-9.3/-11.52	-10.16/-9.81	-11.13/-8.5	-10.64/-10.29	-11.42/-8.87	-10.93/-11.79	-10.44/-8.58	-9.64/-10.04	-11.3/-9.33
Θ(120°)	-10.65/-9.05	-8.69/-11.5	-10.56/-10.69	-11.4/-7.55	-6.81/-9.29	-7.24/-9.76	-11.96/-9.94	-9.4/-12.14	-10.84/-9.34	-8.81/-10.11	-10.67/-11.35	-6.89/-9.85	-11.02/-8.94	-6.63/-10.18	-11.87/-10.09	-7.52/-9.9	-5.66/-8.74	-10.37/-7.79	-8.27/-10.88	-11.2/-9.16	-10.94/-9	-8.3/-9.55	-11.16/-8.52	-11.16/-8.52
Θ(127.5°)	-8.44/-10.78	-10.33/-11.78	-8.45/-9.24	-11.07/-8.32	-6.82/-7.56	-7.67/-8.98	-10.44/-8.3	-10.85/-10.79	-11.11/-11.05	-6.58/-7.69	-9.22/-10.48	-7.71/-11.66	-8.17/-9.08	-7.07/-9.68	-9.73/-7.61	-8.86/-9.13	-9.99/-7.16	-4.28/-12.59	-10.85/-7.64	-8.97/-9.87	-10.08/-10.46	-8.87/-7.05	-6.83/-9.28	-10.27/-10.62
Θ(135°)	-7.5/-7.89	-7.18/-10.62	-9.77/-9.87	-7.47/-9.67	-11.03/-9.29	-7.34/-5.68	-6.47/-8.84	-9.21/-10.15	-10.2/-12.44	-10.87/-9.79	-8.15/-5.71	-7.36/-10.25	-6.62/-9.34	-8.65/-10.97	-8.3/-6.38	-6.36/-7.57	-6.86/-5.55	-5.84/-6.66	-9.36/-6.14	-6.57/-7.9	-6.51/-10.66	-9.52/-5.36	-4.86/-8.56	-10.02/-7.72
Θ(142.5°)	-8.2/-6.69	-8.65/-9.41	-8.57/-9.72	-10.17/-9.87	-11.17/-9.95	-8.66/-9.41	-11.69/-12.73	-11.55/-10.32	-10.67/-9.21	-8.65/-10	-7.77/-8.36	-9.35/-6.92	-7.86/-10.3	-9.98/-7.1	-8.82/-7.71	-7.4/-8.53	-10.14/-9.33	-9.91/-12.47	-7.6/-6.66	-8.38/-10.23	-11.1/-8.82	-5.54/-5.63	-9.56/-9.35	-7.83/-5.18
Θ(150°)	-9.47/-10.83	-9.59/-9.43	-5.71/-4.27	-7.38/-9.58	-9.25/-7.9	-6.4/-6.33	-7.75/-11.07	-7.77/-6.69	-8.86/-7.44	-8.29/-8.9	-7.11/-6.26	-5.75/-6.99	-8.77/-5.95	-6.76/-5.88	-11.46/-9.61	-10.15/-9.35	-12.53/-10.31	-8.88/-7.45	-11.77/-9.84	-4.97/-6.95	-9.43/-10.37	-11.15/-10.89	-10.04/-8.47	-10.04/-8.47
Θ(157.5°)	-9.79/-12.22	-10.62/-8.99	-8.29/-7.75	-5.57/-3.22	-4.51/-5.89	-5.16/-4.32	-6/-9.2	-8.93/-8.58	-9.12/-12.17	-8.11/-7.63	-9.64/-7.73	-7.5/-8.14	-11.01/-8.06	-6.09/-8.42	-8.82/-7.63	-9.03/-9.23	-7.48/-9.7	-8.89/-8.18	-10.15/-11.99	-10.26/-8.02	-7.44/-7.31	-7.48/-8.88	-8.78/-9.93	-11.11/-9.36
Θ(165°)	-8.91/-10.19	-9.43/-9.73	-11.17/-10.58	-7.94/-6.14	-6.89/-10.1	-1.58/-9.48	-10.23/-12.23	-9.61/-6.41	-5.83/-6.55	-8.25/-9.82	-8.66/-5.65	-6.73/-7.28	-8.28/-6.77	-6.51/-6.27	-7.07/-7.09	-5.06/-4.13	-5.28/-6.66	-8.24/-9.38	-11.25/-10.18	-9.12/-9.51	-9.64/-8.1	-8.3/-8.89	-9.1/-9.48	-9.8/-9.25
Θ(172.5°)	-9.1/-8.74	-9.43/-10.65	-11.03/-10.65	-8.66/-8.74	-8.19/-9.53	-10.31/-11.04	-11.25/-11.09	-10.47/-8.7	-7.5/-7.06	-7.02/-7.53	-8.27/-9.6	-8.74/-8.51	-6.63/-7.97	-7.71/-7.49	-7.49/-7.85	-9.79/-9.09	-8.62/-7.85	-8.82/-8.53	-9.48/-8.8	-7.68/-6.69	-6.71/-7.24	-7.41/-8.76	-9.71/-9.43	-9.71/-9.43
Θ(180°)	-9.48/-9.21	-8.71/-8.52	-9.31/-8.79	-10.03/-10.24	-10.95/-11.63	-12.18/-11.6	-10.67/-10.73	-10.77/-11.02	-11.11/-10.73	-10.93/-10.53	-10.77/-11.43	-11.28/-10.59	-10.71/-10.92	-10.71/-10.67	-10.71/-10.76	-10.15/-9.91	-9.35/-9.37	-10.71/-11.1	-10.83/-10.61	-11.71/-12.42	-11.36/-10.74	-10.37/-9.97	-8.65/-9.15	-9.77/-9.54
Freq(Hz)	6.995GPol.	ThetaL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-5.38/-5.36	-5.23/-4.77	-4.46/-4.21	-3.93/-3.58	-3.72/-3.91	-3.84/-3.17	-2.65/-2.87	-3.22/-3.02	-2.27/-2.02	-2.23/-2.45	-2.91/-3.33	-3.95/-4.55	-4.62/-5.25	-5.55/-5.23	-5.36/-5.33	-5.14/-4.35	-3.94/-3.29	-2.72/-2.65	-2.55/-2.51	-2.36/-2.04	-2.25/-2.82	-3.48/-3.71	-4.53/-5.09	-5.34/-5.3
Θ(7.5°)	-5.64/-5.41	-4.35/-4.04	-4.33/-4.45	-4.49/-3.47	-4.2/-3.94	-3.81/-3.27	-3.08/-3.17	-3.44/-3.46	-3.74/-4.44	-5.49/-6.66	-7.28/-7.61	-7.64/-6.74	-6.15/-5.06	-3.81/-3.06	-2.69/-2.83	-3.1/-3.09	-3.68/-4.34	-4.69/-4.84	-5.02/-4.64	-3.97/-3.72	-3.73/-4	-4.04/-4.37	-5.26/-5.83	-6.05/-5.68
Θ(15°)	-2.83/-2.35	-2.42/-2.46	-2/-1.86	-2.39/-2.57	-2.64/-2.51	-2.61/-2.77	-3.24/-3.75	-4.71/-5.29	-5.57/-5.94	-6.78/-6.22	-4.99/-4.84	-4.74/-4.9	-6.43/-6.06	-3.45/-3.14	-2.74/-1.92	-1.91/-1.65	-1.53/-1.69	-1.71/-2.78	-4.71/-6.77	-8.9/-9.17	-9.89/-6.78	-4.96/-3.92	-3.23/-2.94	-2.79/-2.91
Θ(22.5°)	-4.1/-3.45	-4.46/-5.51	-3.75/-2.4	-2.04/-0.79	-0.52/-0.33	-0.13/-0.01	-0.42/-1.87	-4.03/-5.51	-5.75/-5.67	-5.83/-5.97	-6.58/-6.76	-7.3/-6.96	-5.94/-6.03	-6.43/-7.26	-6.5/-4.88	-3.23/-2	-0.72/-0.13	0.69/-0.32	-0.17/-1.25	-1.63/-1.21	-0.66/-0.52	-0.88/-1.36	-1.44/-1.6	-2.57/-3.78
Θ(30°)	-2.34/-2.28	-1.9/-1.99	-1.49/-0.79	0.53/-2.66	3.592/-6	0.750/-0.2	0.08/-0.4	-1.03/-0.28	0.35/-0.65	-2.54/-3.87	-4.98/-4.03	-1.44/-0.9	-0.78/-0.74	-2.4/-5.01	-4.65/-3.29	-2.77/-2.19	-1.64/-1.44	-0.78/-0.55	0.06/-1.1	2.15/-2.9	3.794/-36	3.381/-03	-0.93/-0.26	-0.02/-0.85
Θ(37.5°)	2.841/-85	1.52/-61	3.65/-2.78	2.193/-18	3.932/-99	1.09/-0.42	-1.04/-1.33	-1.47/-0.65	0.64/-1.4	1.551/-23	1.531/-52	1.90/-96	0.32/-0.86	-0.192/-33	3.91/-29	0.72/-0.2	-0.050/-17	0.530/-88	2.554/-28	4.774/-01	3.594/-69	4.964/-58	4.664/-68	4.643/-98
Θ(45°)	4.323/-41	1.862/-36	4.193/-57	3.363/-47	3.522/-93	2.591/-18	0.477/-14	1.320/-51	0.470/-99	1.542/-97	4.283/-96	3.022/-13	2.2/08	1.372/-18	4.595/-27	3.083/-26	4.534/-28	3.153/-07	4.996/-84	6.695/-26	5.275/-6	5.084/-89	5.665/-9	5.644/-71
Θ(52.5°)	5.884/-15	1.972/-18	5.564/-61	3.124/-03	4.234/-28	4.633/-65	1.743/-29	5.215/-43	4.824/-77	4.484/-32	5.264/-48	3.152/-88	2.822/-14	1.652/-76	5.256/-3	4.955/-42	5.895/-36	4.333/-98	5.667/-01	7.086/-33	6.66/-07	5.525/-1	5.386/-13	6.926/-99
Θ(60°)	7.416/-2	4.744/-02	6.776/-39	5.356/-36	5.674/-89	5.544/-83	3.834/-36	5.917/-01	6.866/-67	6.816/-	5.76/-04	6.134/-68	3.592/-88	2.874/-89	5.767/-08	6.375/-98	5.914/-41	3.183/-23	4.225/-21	6.846/-55	6.535/-97	6.296/-18	6.557/-51	8.978/-33
Θ(67.5°)	6.677/-09	6.366/-09	7.897/-65	6.878/-11	6.636/-	5.323/-93	5.626/-55	6.447/-17	7.287/-13	7.456/-39	6.056/-98	7.966/-7	5.994/-49	4.078/-94	6.517/-25	7.316/-5	5.473/-75	4.274/-04	4.145/-	7.437/-17	5.765/-79	7.566/-67	7.358/-21	9.498/-48
Θ(75°)	6.556/-92	6.046/-69	7.567/-67	7.348/-62	7.597/-21	5.383/-3	5.627/-39	7.627/-91	8.37/-49	7.777/-53	6.797/-13	8.818/-09	8.116/-44	4.855/-58	6.086/-53	7.126/-66	5.514/-61	5.565/-82	5.445/-18	8.148/-01	5.35/-89	7.816/-35	7.147/-84	9.027/-74
Θ(82.5°)	5.55/-56	4.656/-4	6.026/-02	6.487/-88	7.846/-34	3.983/-26	5.656/-14																	



Appendix E

6.175GPa		Phi/Ant 1																											
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)					
Θ(0°)	-13.77/-14.99	-16.17/-15.21	-14.85/-14.1	-16.59/-16.58	-17.35/-14.3	-12.05/-13.9	-13.37/-10.42	-10.41/-11.48	-12.04/-12.8	-12.13/-12.49	-14.04/-15.61	-19.18/-17.16	-19.18/-17.16	-19.18/-17.16	-18.47/-15.34	-13.97/-12.5	-11.19/-27	-10.05/-11.42	-10.31/-9.78	-9.81/-11.02	-12.59/-13.01	-12.55/-12.12	-12.44/-13.08	-14.52/-13.33	-11.98/-13.63				
Θ(7.5°)	-17.66/-16.94	-14.11/-13.34	-12.98/-13	-9.75/-7.49	-8.4/-9.39	-8.75/-8.28	-8.66/-10.37	-11.24/-11.23	-11.03/-11.41	-12.4/-12.5	-12.04/-11.02	-10.9/04	-7.93/-8.35	-9.63/-10.2	-9.71/-9.24	-10.91/-14.05	-14.52/-12.12	-11.94/-11.77	-10.93/-9.29	-9.4/-9.9	-11.14/-11.83	-12.69/-13.69	-15.37/-17.18	-17.52/-17.46					
Θ(15°)	-14.25/-14.85	-11.85/-18.12	-19.09/-18.09	-15.54/-12.27	-9.36/-7.5	-7.75/-8.76	-7.03/-6.76	-7.9/-8.53	-8.31/-8.88	-9.58/-10.05	-10.91/-11.25	-11.37/-10.24	-8.86/-7.61	-6.13/-5.43	-5.35/-6.07	-6.23/-6.58	-9.33/-12.7	-13.71/-12.24	-10.52/-8.61	-7.38/-7.84	-11.11/-16.77	-18.36/-17.47	-19.28/-17.92	-17.26/-16.02					
Θ(22.5°)	-8.03/-7	-7.82/-9.23	-12.71/-18.14	-16.36/-17.27	-11.45/-9.25	-8.2/-10.11	-13.36/-11.29	-13.02/-16.62	-10.73/-14.35	-14.89/-16.27	-15.56/-11.25	-8.83/-8.51	-7.88/-6.95	-6.98/-8.98	-8.73/-9.46	-12.31/-14.59	-14.51/-13.27	-11.41/-18.94	-14.94/-12.1	-11.51/-35.36	-17.83/-17.36	-14.31/-14.84	-18.15/-17.32	-16.15/-16.03					
Θ(30°)	-10.27/-10.37	-9.44/-10.47	-14.84/-18.24	-18.44/-17.25	-15.01/-8.38	-9.86/-10.29	-19.39/-17.98	-18.51/-10.56	-8.31/-11.22	-18.57/-17.97	-18.69/-18.37	-7.76/-5.19	-6.01/-8.31	-9.45/-7.49	-11.76/-18.51	-18.21/-16.25	-13.04/-11.98	-10.71/-12.29	-18.65/-12.24	-12.33/-14.88	-9.26/-7	-10.17/-13.82	-19.32/-16.05	-11.36/-8.64					
Θ(37.5°)	-12.99/-13.99	-9.4/-8.44	-17.39/-18.73	-17.11/-10.12	-15.15/-9.68	-8.44/-11.8	-18.62/-9.8	-10.09/-11.72	-6.08/-6.29	-12.14/-9.33	-10.11/-19.69	-12.13/-6.56	-4.74/-5.27	-9.66/-15.72	-19.02/-16.69	-16.48/-17.47	-18.51/-17.18	-12.75/-17.75	-15.62/-10.53	-8.45/-7.44	-6.68/-9.57	-17.88/-15.85	-19.29/-16.65	-17.65/-13.29					
Θ(45°)	-12.92/-18.09	-13.55/-11.86	-19.18/-54	-17.61/-15.89	-12.74/-8.36	-9.81/-18.92	-18.54/-11.8	-7.28/-11.33	-9.37/-9.22	-13.51/-9.55	-10.76/-13.78	-17.93/-17.64	-11.52/-6.61	-5.82/-11.42	-15.57/-15.98	-9.58/-18.15	-16.71/-17.72	-18.34/-19.28	-13.24/-12.8	-17.76/-16.33	-12.61/-13.91	-13.48/-10.58	-17.97/-12.6	-14.11/-17.69					
Θ(52.5°)	-12.44/-15.36	-18.21/-19.07	-17.69/-16.35	-13.02/-10.66	-9.71/-7.85	-12.65/-10.07	-18.04/-18.41	-8.97/-6.78	-11.4/-19.03	-12.89/-10.64	-18.56/-13.71	-18.72/-13.62	-19.22/-9.07	-4.57/-7.82	-18.52/-18	-9.3/-17.24	-10.06/-18.72	-18/-13.47	-8.75/-18	-18.05/-13.92	-14.17/-9.42	-8.14/-10.16	-13.64/-9.86	-13.37/-18.64					
Θ(60°)	-10.76/-14.02	-15.27/-18.32	-18.39/-18.84	-14.06/-9.52	-9.35/-9.17	-18.99/-12.95	-18.62/-14.5	-10.27/-6.21	-9.47/-11.3	-7.46/-5.07	-5.95/-10.9	-13.03/-18.6	-15.72/-15.22	-5.21/-4.74	-16.44/-14.75	-17.18/-18.18	-10.18/-18.73	-18.05/-13.59	-11.25/-18.7	-9.89/-6.74	-7.28/-6.74	-8.17/-14.1	-15.6/-13.88						
Θ(67.5°)	-13.81/-17.87	-19.27/-17.6	-11.72/-14.52	-																									



Radiated Composite Gain Data_6G (4TX)

Appendix E

Θ(22.5°)	-12.64/-18.62	-18.47/-18.31	-18.99/-18.63	-18.51/-18.23	-14.11/-10.01	-9.84/-8.25	-7.37/-7.5	-9.93/-12.73	-12.51/-13.28	-16.42/-19.05	-19.27/-15.8	-10.71/-5.1	-7.67/-9.09	-10.65/-11.43	-10.12/-9.65	-10.81/-14.1	-16.76/-18.08	-17.76/-18.63	-17.78/-18.62	-18.56/-11.71	-7.22/-6.18	-6.58/-9.06	-12.81/-13.21	-10.86/-10.28
Θ(30°)	-14.53/-10.3	-11.88/-12.02	-14.95/-18.46	-13.66/-13.09	-17.41/-16.98	-10.55/-6.62	-7.05/-11.1	-13.23/-10.3	-5.95/-3.94	-5.74/-12.46	-18.79/-16.46	-12.69/-8.34	-8.99/-11.09	-12.91/-18.29	-17.98/-13.26	-15.79/-17.66	-17.08/-13.96	-12.16/-14.52	-17.74/-15.86	-10.76/-7.45	-6.66/-8.78	-12.79/-10.62	-14.05/-18.46	-13.76/-12.54
Θ(142.5°)	-14.24/-11.62	-7.58/-9.1	-15.51/-19.4	-15.12/-12.37	-19.32/-10.49	-8.79/-10.21	-10.35/-16.82	-11.49/-16.09	-8.79/-10.21	-10.35/-16.82	-11.49/-16.09	-8.79/-10.21	-10.35/-16.82	-11.49/-16.09	-8.79/-10.21	-10.35/-16.82	-11.49/-16.09	-8.79/-10.21	-10.35/-16.82	-11.49/-16.09	-8.79/-10.21	-10.35/-16.82	-11.49/-16.09	-8.79/-10.21
Θ(45°)	-12.07/-11.11	-9.4/-10.79	-12.66/-16.4	-11.36/-15.09	-9.3/-7.54	-9.62/-17.48	-18.26/-18.03	-9.03/-9.01	-16.65/-11.28	-12.69/-13.78	-13.01/-14.14	-19.61/-11.39	-8.52/-8.86	-12.45/-14.38	-11.32/-18.62	-9.61/-14.81	-14.61/-13.91	-15.79/-15.59	-12.57/-11.56	-13.17/-18.33	-18.8/-12	-18.59/-18.31	-19.3/-12.02	-13.7/-18.07
Θ(52.5°)	-11.78/-11.91	-12.63/-13.36	-11.54/-18.06	-15.13/-11.17	-8.58/-9.77	-16.98/-16.42	-18.42/-18.88	-13.99/-11.48	-16.25/-13.47	-6.47/-13.74	-16.98/-17.85	-17.6/-14.7	-11.08/-9.61	-15.61/-17.8	-14.38/-18.19	-17/-18.6	-17.02/-11.04	-16.1/-18.07	-16.6/-10.2	-14.45/-17.87	-9.57/-6.14	-5.95/-11.4	-14.27/-13.64	-12.42/-19.3
Θ(60°)	-12.21/-13.13	-18.37/-13.12	-10.98/-18.23	-19.29/-9.6	-10.87/-11.13	-18.9/-10.15	-13.17/-10.73	-10.69/-8.88	-16.21/-9.87	-5.67/-7.68	-8.83/-17.92	-16.67/-18.19	-9.86/-8.17	-15.42/-15.81	-16.31/-17.78	-13.02/-19.03	-13.39/-9.77	-17.51/-19.35	-18.11/-9.62	-12.38/-14.7	-9.24/-6.7	-11.88/-17.82	-10.84/-16.5	
Θ(67.5°)	-11.07/-17.26	-17.61/-15.1	-9.82/-18.98	-18.02/-9.72	-12.39/-15.84	-17.69/-17.15	-14.82/-14.05	-7.77/-8.43	-14.46/-7	-4.08/-10.86	-8.61/-17.7	-14.76/-18.67	-12.22/-8.08	-16.39/-18.67	-11.61/-15.87	-15.05/-17.49	-9.24/-9.42	-16.52/-18.74	-18.3/-10.27	-13.64/-16.19	-8.1/-7.71	-8.27/-13.68	-13.42/-18.67	-15.47/-8.82
Θ(75°)	-12.21/-17.14	-18.46/-16.25	-11.66/-15.76	-15.78/-12.02	-16.76/-18.53	-18.5/-18.62	-14.94/-19.05	-8.58/-5.12	-10.07/-11.63	-7.04/-9.7	-13.22/-18.12	-9.78/-18.55	-12.87/-8.45	-10.57/-18.43	-12.6/-19.07	-18.8/-14.02	-7.04/-10.35	-12.51/-17.32	-12.63/-11.17	-18.66/-18.27	-11.23/-14.74	-14.02/-16.49	-18.32/-18.31	-16.16/-17.96
Θ(82.5°)	-13.99/-15.45	-18.25/-17.65	-16.51/-10.65	-16.65/-16.79	-16.65/-16.79	-18.43/-15.33	-18.88/-17.43	-13.4/-18.11	-10.35/-4.92	-10.79/-13.03	-12.47/-16.92	-14.72/-14.65	-11.9/-14.73	-15.44/-10.89	-10.51/-17.42	-13.02/-17.14	-17.29/-12.86	-7.98/-17.51	-11.25/-17.75	-12.89/-15.22	-19.21/-15.19	-12.59/-13.98	-15.93/-15.34	-18.85/-18.76
Θ(90°)	-17.61/-15.03	-18.14/-19.14	-17.87/-9.23	-16.65/-18.66	-18.49/-14.54	-16.29/-18.82	-12.39/-18.69	-17.8/-6.4	-9.94/-15.34	-18.48/-19.29	-17.49/-13.29	-13.41/-12.28	-16.06/-17.21	-6.94/-18.97	-19.14/-18.87	-18.47/-14.35	-10.86/-13.63	-17.3/-16.23	-15.72/-16.29	-15.41/-17.8	-14.19/-11.86	-15.31/-12.65	-18.51/-18.22	-15.09/-6.57
Θ(97.5°)	-18.01/-15.32	-18.87/-17.13	-17.32/-9.15	-17.71/-17.94	-14.72/-17.66	-13.13/-14.11	-14.72/-17.66	-13.13/-14.11	-17.11/-9.6	-11.86/-10.2	-14.14/-15.74	-17.11/-13.55	-16.65/-12.59	-18.05/-16.63	-7.33/-19.32	-18.02/-18.98	-18.11/-15.78	-13.2/-14.6	-15.01/-11.38	-17.65/-16.48	-17.5/-18.5	-14.09/-12.98	-14.53/-12.22	-17.09/-18.32
Θ(105°)	-17.35/-17.91	-17.69/-17.41	-18.3/-9.35	-18.68/-18.22	-13.37/-12.57	-12.56/-17.97	-11.42/-15.04	-18.82/-14.49	-12.02/-11.26	-11.95/-14.5	-18.91/-18.71	-19.3/-17.5	-10.21/-19.07	-15.44/-18.48	-17.95/-18.31	-18.14/-19.27	-14.92/-8.93	-17.7/-16.28	-17.86/-17.88	-17.73/-14.6	-12.67/-10	-16.08/-18.61	-14.32/-9.04	
Θ(112.5°)	-18.52/-18.97	-16.88/-18.23	-18.96/-11.91	-18.64/-17.49	-12.42/-11.07	-14.24/-17.92	-13.81/-14.54	-18.51/-15.36	-10.36/-11.19	-12.01/-17.7	-16.14/-18.2	-18.8/-15.71	-18.9/-10.83	-14.77/-18.78	-18.23/-18.29	-13.47/-18.04	-14.35/-16.07	-19.02/-10.31	-18.88/-15.3	-14.31/-17	-16.6/-19.14	-13.99/-10.32	-15.62/-18.05	-17.14/-11.98
Θ(120°)	-18.88/-18.1	-16.5/-19.2	-18.79/-15.14	-18.49/-17.87	-14.55/-15.61	-8.49/-14.83	-16.16/-19.84	-15.05/-18.44	-16.35/-14.73	-13.76/-17.51	-13.22/-18.74	-17.15/-18.56	-18.05/-11.06	-10.56/-17.92	-18.4/-15.85	-12.54/-18.03	-10.9/-16.67	-11.78/-10.81	-18.28/-9.86	-14.28/-18.27	-18.5/-18.78	-13.11/-10.16	-16.28/-17.98	-17.61/-17.71
Θ(127.5°)	-18.47/-19.07	-18.73/-19.08	-17.8/-19.59	-18.88/-18.36	-17.6/-18.97	-11.11/-11.71	-17.35/-11.79	-19.63/-15.25	-17.82/-16.57	-10.86/-18.91	-9.06/-16.04	-13.47/-17.55	-12.31/-16.89	-15.91/-12.75	-15.52/-10.62	-13.01/-13.55	-12.59/-19.81	-13.09/-11.46	-18.61/-17.83	-14.21/-14.24	-11.54/-19.01	-19.23/-18.98		
Θ(135°)	-18.87/-17.77	-18.69/-19.12	-17.97/-17.1	-15.1/-12.28	-18.53/-15.63	-11.96/-9.82	-15.37/-9.58	-10.63/-15.3	-17.34/-17.53	-13.07/-16.62	-9.98/-9.45	-10.25/-13.44	-11.28/-16.7	-15.91/-18.17	-15.5/-6.96	-18.04/-6.5	-9.1/-10.03	-19.09/-10.14	-16.89/-8.87	-8.83/-14.24	-17.58/-17.32	-12.68/-7.88	-8.33/-18.75	-13.1/-14.39
Θ(142.5°)	-14.38/-16.83	-18.35/-17.83	-18.69/-13.05	-18.94/-17.42	-12.39/-14.35	-15.89/-14.86	-16.82/-17.81	-17.54/-13.13	-10.08/-11.66	-15.29/-14.16	-9.81/-18.16	-17.38/-15.47	-12.42/-13.96	-18.06/-14.09	-19.4/-11.32	-17.14/-16.32	-15.94/-12.49	-16.14/-18.08	-17.12/-8.95	-10.75/-18.75	-17.86/-15.47	-9.15/-6.51	-15.13/-10.05	-13.06/-18.31
Θ(150°)	-14.4/-18.73	-16.44/-17.03	-18.73/-12.87	-14.26/-14.98	-17.38/-16.18	-13.63/-19.53	-9.48/-10.12	-10.43/-11.62	-12.52/-13.05	-17.99/-10.84	-7.21/-9.68	-10.01/-15.28	-13.42/-12.11	-11.63/-18.92	-13.54/-18.35	-17.72/-11.64	-12.17/-15.84	-14.55/-17.79	-15.77/-11.05	-18.08/-18.47	-12.61/-10.9	-13.71/-17.73		
Θ(157.5°)	-18.53/-18.04	-19.07/-18.01	-17.96/-19.26	-14.29/-14.08	-18.97/-14.37	-10.21/-10.36	-12.14/-16.25	-14.64/-17.15	-18.07/-17.02	-12.75/-13.58	-13.38/-9.19	-10.82/-11.95	-18.27/-11.21	-11.07/-15.25	-13.67/-10.87	-17.04/-18.23	-13.68/-19.33	-18.97/-15.74	-14.66/-17.95	-18.65/-15.48	-13.61/-13.05	-13.18/-14.4	-16.66/-18.15	-17.66/-18.09
Θ(165°)	-18.61/-16.9	-16.25/-18.48	-19.2/-17.24	-13.16/-11.7	-11.83/-14.17	-18.61/-18.85	-18.82/-18.33	-17.78/-17.63	-15.65/-13.68	-14.38/-18.31	-17.47/-14.67	-15.38/-14.84	-13.99/-13.13	-16.02/-18.89	-18.86/-18.9	-17.88/-16.23	-12.28/-10.58	-12.87/-18.32	-18.39/-17.51	-17.51/-15.89	-13.98/-11.07	-10.71/-12.25	-15.26/-16.55	-18.51/-18.31
Θ(172.5°)	-17.31/-14.48	-13.24/-16.16	-19.36/-18.65	-17.98/-18.74	-17.87/-17.58	-19.37/-19.27	-18.58/-18.09	-19.01/-16.22	-14.96/-15.5	-15.81/-16.6	-18.39/-18.51	-18.91/-17.63	-17.87/-18.52	-17.39/-15.14	-17.23/-15.14	-14.17/-16.78	-12.65/-10.8	-12.59/-12.14	-10.91/-11.06	-11.06/-10.59	-10.04/-9	-10.51/-12.88	-14.88/-17.08	-17.97/-19.37
Φ(180°)	-14.3/-15.33	-16.05/-17.19	-17.97/-16.17	-18.59/-18.65	-17.46/-18.53	-19.23/-16.26	-14.81/-14.82	-15.02/-14.72	-14.12/-13.63	-13.14/-15.92	-18.08/-18.98	-16.57/-18.36	-17.58/-18.04	-18.44/-18.33	-17.17/-18.05	-18.9/-18.14	-18.47/-19.07	-17.77/-18.42	-18.19/-17.54	-18.22/-18.94	-17.46/-18.08	-15.63/-15.18	-15.05/-13.95	
Freq(GPol)	ThetaAnt.1	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-8.3/-8.07	-8.31/-8.13	-8.12/-9.14	-9.3/-9.04	-9.6/-11.98	-14.47/-12.59	-11.07/-12.3	-13.83/-12.34	-9.95/-9.17	-9.12/-8.73	-7.97/-7.71	-7.92/-7.91	-7.94/-8.45	-8.2/-7.27	-7.72/-8.26	-8.8/-8.58	-9.8/-9.5	-9.62/-9.48	-9.63/-10.31	-9.73/-9.11	-9.11/-9.68	-9.53/-9.18	-9.45/-8.88	-8.37/-8.17
Θ(7.5°)	-7.1/-6.66	-6.2/-6.5	-6.65/-7.03	-6.41/-6.36	-7.01/-8.02	-9.09/-8.65	-8.84/-9.5	-9.78/-9.11	-9.05/-9.64	-11.02/-10.35	-10.76/-11.67	-11.87/-13.1	-14.04/-12.72	-12.15/-11.39	-9.9/-8.85	-8.88/-10.5	-10.61/-10.32	-12.07/-10.52	-16.25/-15.93	-16.23/-15.97	-14.09/-13.54	-13.52/-13.29	-12.22/-13.1	-11.23/-9.52
Θ(15°)	-8.48/-8.85	-8.2/-8.57	-4.67/-3.6	-3.05/-3.2	-2.1/-2.47	-3.63/-5.02	-5.94/-7.58	-9.43/-10.6	-10.26/-10.46	-11.60/-10.65	-9.64/-11.75	-15.51/-16.19	-14.92/-12.55	-12.16/-14.35	-18.29/-18.14	-14.31/-14.31	-14.63/-17.13	-18.01/-19.23	-18.56/-18.82	-18.04/-16.62	-11.35/-9.26	-7.23/-7.27	-7.57/-7.94	
Θ(22.5°)	-14.26/-11.8	-8.95/-7.37	-5.87/-4.38	-3.18/-2.08	-2.08/-2.32	-2.17/-2.1	-3.06/-5.38	-7.69/-9.43	-11.59/-17.36	-19.18/-18.23	-18.04/-17.81	-18.03/-14.31	-11.08/-10.56	-10.43/-10.42	-10.23/-10.17	-12.17/-14.95	-16.63/-13.08	-11.46/-11.79	-10.03/-8.65	-7.08/-5.47	-4.12/-3.34	-3.67/-5.96	-8.42/-11.21	-17.85/-19.12
Θ(30°)	-10.74/-10.12	-10.54/-11.13	-9.16/-6.73	-6.49/-5.82	-4.56/-4.36	-5.11/-4.84	-5.66/-8.35	-8.71/-5.17	-4.03/-6.09	-9.31/-11.52	-14.45/-16.71	-9.34/-6.78	-6.3/-4.75	-10.68/-12.1	-10.49/-11.06	-16.52/-19.65	-12.24/-8.82	-7.39/-7.21	-6.35/-4.55	-3.1/-2.1	-1.26/-1	-1.69/-4.56	-7.48/-6.49	-7.43/-9.46
Θ(37.5°)	-3.49/-7.39	-18.27/-14.13	-10.2/-8.13	-9.39/-9.55	-4.51/-3.4	-5.06/-5.72	-5.35/-6.72	-9.91/-7.91	-5.54/-5.5	-6.07/-16.7	-6.36/-9.93	-5.9/-4.57	-5.84/-16.53	-13.27/-6.82	-2.21/-2.03	-6.86/-10.79	-8.81/-9.7	-5.61/-3.98	-1.050/-47	0.33/-0.58	-2.72/-5.58	-7.49/-5.09	-2.39/-0.15	0.68/-1.14
Θ(45°)	1.22/-0.61	-8.08/-19.42	-15.79/-16.71	-9.66/-14.84	-9.23/-4.73	-3.04/-2.22	-0.76/-0.24	-1.91/-3.84	-5.05/-6.54	-8.43/-4.16	-1.56/-1.48	-8.81/-1.03	-1.82/-9.32	-6.62/-6.93	-8.07/-8.4	-3.02/-5.42	-0.91/-8.82	-9.36/-5	-1.480/-23	0.32/-0.65	-0.81/-1.9	-3.37/-1.66	-0.22/-0.13	1.17/-0.8
Θ(52.5°)	5.21/-3.7	-1.37/-3.5	-1.95/-8.72	-18.17/-10.98	-6.9/-4.63	-1.870/-3.4	0.21/-0.42	-0.46/-0.13	0.97/-3.04	-1.94/-0.96	1.55/-1.66	0.47/-1.35	-2.43/-4.87	-18.96/-13.24	-2.34/-1.14	-2.83/-3.78	-5.79/-13.85	-18.96/-9.15	-2.18/-0.74	-0.860/-13	1.33/-1.45	1.78/-0.25	1.33/-1.66	3.24/-0.54
Θ(60°)	5.54/-6.2	1.050/-7.6	1.72/-2.19	-4.9/-3.75	-3.24/-3.15	0.56/-1.96	2.42/-1.74	0.19/-1.27	2.52/-54	2.26/-1.71	1.790/-99	0.4/-4.11	-6.45/-6.85	-17.72/-17.64	-7.81/-1.9	-5.88/-10.89	-18.07/-13.1	-4.94/-3.28	-3.01/-0.99	1.792/-98	3.583/-54	2.472/-86	5.18/-5.	



Radiated Composite Gain Data_6G (4TX)

Appendix E

Θ(67.5°)	-15.45/-12.18	-13.66/-10.79	-9.03/-6.5	-3/-5.73	-10.72/-8.57	-17.39/-11.08	-14.51/-19.27	-18.99/-10.77	-12.31/-13.96	-14.21/-10.23	-18.67/-10.82	-19.16/-9.8	-5.64/-4.45	-8.22/-7	-6.85/-8.52	-19.23/-18.3	-13.84/-11.49	-10.28/-11.15	-13.23/-15.61	-15.8/-13.2	-16.57/-17.78	-15.52/-13.84	-19.04/-12.94	-11.66/-16.27
Θ(75°)	-17.41/-16.85	-13.93/-13.14	-11.05/-7.55	-3.56/-5.47	-10.25/-7.77	-19.04/-10.56	-11.08/-18.92	-13.41/-9.4	-10.23/-11.13	-12.72/-13.84	-18.01/-14.47	-14.86/-11.58	-7.14/-8.88	-8.03/-10.35	-6.89/-8.4	-18.17/-13.43	-17.36/-10.93	-9.67/-12.05	-14.27/-15.15	-19.04/-17.37	-18.99/-14.06	-14.08/-14.16	-17.78/-10.25	-10.83/-18.52
Θ(82.5°)	-13.42/-18.69	-13.41/-16.05	-13.33/-9.35	-5.88/-5.01	-10.74/-9.22	-16.12/-14.28	-9.8/-18.92	-12.46/-12.06	-15.7/-10.48	-13.88/-17.84	-18.38/-18.95	-15.54/-16.64	-8.06/-8.3	-10.44/-8.97	-7.04/-9.5	-13.35/-10.14	-14.18/-11.38	-13.35/-11.05	-16.36/-14.41	-17.8/-18.06	-17.74/-13.91	-15.27/-16.82	-17.34/-9.31	-13.87/-18
Θ(90°)	-13.8/-19.27	-11.84/-18.34	-18.46/-12.29	-8.83/-10.34	-13.89/-11.03	-19.01/-13.72	-10.76/-18.4	-12.31/-12.09	-18.36/-11.97	-13.34/-16.79	-16.48/-17.68	-14.85/-18.51	-12.12/-9.73	-11.31/-12.07	-7.82/-10.26	-16.04/-11.37	-17.65/-14.1	-19.23/-14.92	-18.35/-17.85	-19.14/-13.73	-15.51/-17.08	-16.02/-18.06	-18.13/-11.67	-13.22/-18.22
Θ(97.5°)	-14.65/-16.65	-11.52/-18.89	-18.72/-16.19	-10.68/-12.19	-15.9/-15.65	-18.33/-16.05	-11.51/-19.55	-15.01/-12.96	-17.37/-13.81	-18.53/-17.1	-17.77/-16.28	-18.24/-17.91	-14.31/-14.17	-18.02/-12.86	-10.18/-16.71	-16.92/-15.32	-17.46/-16.53	-17.8/-19.12	-18.23/-17.98	-15.24/-14.03	-15.34/-18.54	-17.21/-19.09	-17.68/-11.45	-16.72/-15.06
Θ(105°)	-18.56/-15.79	-12.63/-13.63	-19.16/-16.75	-11.47/-15.51	-17.77/-17.29	-19.63/-17.86	-16.7/-18.41	-17.87/-15.24	-16.86/-13.77	-18.86/-17.92	-19.17/-19.41	-17.33/-18.39	-14.24/-14.17	-18.65/-16.47	-17.77/-16.74	-17.54/-17.79	-18.4/-18.48	-17.54/-17.79	-14.8/-13.89	-19.03/-18.25	-16.34/-18.07	-17.37/-10.08	-15.03/-14.66	
Θ(112.5°)	-18.63/-16.46	-16.09/-12.59	-17.49/-17.62	-14.2/-18.87	-15.59/-17.47	-16.57/-18.08	-18.1/-18.02	-18.81/-17.93	-18.7/-15.08	-18.78/-17.9	-18/-18.72	-18.64/-18.27	-17.94/-14.43	-15.43/-17.68	-15.69/-17.46	-13.65/-18.48	-18.9/-18.69	-19.43/-17.99	-18.12/-13.65	-16.52/-16.12	-18.71/-18.95	-19.21/-17.99	-15.04/-13.81	-15.69/-15.34
Θ(120°)	-17.81/-17.46	-18.62/-17.45	-17.55/-17.81	-17.5/-19.37	-17.86/-17.99	-17.58/-18.02	-17.76/-17.81	-17.26/-19.16	-14.32/-13.55	-18.78/-18.48	-16.56/-18.5	-19.24/-16.99	-16.46/-12.5	-13.04/-18.46	-19.03/-15.25	-12.55/-18.64	-17.35/-18.58	-12.92/-11.61	-18.27/-9.92	-17.43/-17.39	-19.01/-15.29	-18.39/-18.14	-18.33/-15.93	-13.63/-16.42
Θ(127.5°)	-18.24/-18.93	-18.33/-18.84	-18.15/-16.06	-18.88/-17.76	-18.61/-18.29	-14.9/-17.51	-12.92/-18.33	-19.03/-18.4	-10.66/-12.46	-18.92/-17.49	-17.34/-12.96	-11.11/-17.49	-17.93/-17.48	-14.99/-11.36	-9.98/-15.86	-11.4/-17.71	-17.47/-15.84	-8.6/-18.43	-18.29/-13.21	-17.89/-18.11	-17.28/-18.27	-17.57/-18.39	-18.57/-17.62	-13.82/-18.25
Θ(135°)	-19.08/-15.44	-19.03/-17.57	-18.65/-18.01	-13.91/-13.49	-17.99/-17.73	-15.78/-17.71	-14.57/-17.76	-13.9/-19.13	-16.7/-17.89	-12.77/-18.17	-13.98/-12.36	-13.64/-14.33	-17.98/-18.32	-19/-14.13	-17.92/-10.31	-11.16/-18.35	-13.85/-11.51	-8.86/-18.63	-18.87/-12.78	-19.01/-16.29	-18.79/-15.55	-19.31/-18.62	-14.54/-17.06	-12/-18.27
Θ(142.5°)	-19.1/-16.56	-18.92/-17.07	-18.37/-18.99	-17.84/-18.2	-17.7/-14.76	-18.12/-19.14	-14.04/-13.86	-18.85/-17.37	-18.94/-11.46	-8.71/-16.54	-10.27/-12.89	-16.93/-18.27	-16.02/-17.77	-15.99/-17.74	-18.8/-11.04	-13.75/-8.61	-15.19/-19.25	-12.38/-12.7	-18.52/-13.68	-15.66/-19.46	-18.8/-14.41	-17.13/-17.94	-14.41/-10.8	-8.31/-10.61
Θ(150°)	-18.13/-17.45	-18.21/-13.78	-19.32/-18.32	-15.21/-17.93	-19.3/-18.84	-18.42/-11.34	-12.38/-17.17	-16.72/-16.16	-19.18/-17.21	-16.23/-16.8	-17.2/-9.83	-14.34/-14.41	-13.82/-16.33	-11.89/-10.04	-16.54/-16.15	-18.94/-15.43	-17.47/-17.37	-15.9/-9.67	-11.06/-18.09	-18.04/-18.81	-19.44/-18.3	-18.95/-15.05	-13.48/-17.93	
Θ(157.5°)	-17.32/-19.27	-18.14/-19.05	-18.12/-18.19	-14.24/-9.97	-7.54/-9.2	-12.86/-10.79	-10.37/-16.99	-11.27/-5.56	-6.35/-15.04	-17.68/-11.87	-10.16/-13.46	-18.82/-16.11	-16.71/-19.03	-12.88/-13.85	-13.65/-17.42	-16.51/-19.18	-19.23/-18.78	-15.74/-13.45	-18.82/-17.96	-13.69/-13.35	-18.59/-18.85	-16.7/-17.79	-16.85/-17.88	-17.43/-18.43
Θ(165°)	-17.02/-10.47	-12.53/-14.84	-17.9/-17.75	-16.76/-15.67	-17.78/-18.14	-15.14/-12.12	-13.66/-16.03	-15.07/-11.9	-10.72/-13.66	-14.77/-9.59	-8.6/-12.26	-16.15/-17.13	-18.98/-13.66	-8.76/-8	-11.5/-16.38	-13.52/-11.89	-16.3/-17.46	-12.35/-10.42	-11.17/-14.43	-14.96/-19.66	-17.74/-16.65	-13.35/-11.84	-10.69/-12.82	-18.59/-18.19
Θ(172.5°)	-16.25/-15.97	-17.3/-17.85	-19.34/-18.13	-17.92/-18.98	-18.98/-18.22	-18.84/-18.79	-17.41/-18.36	-17.78/-19.37	-17.39/-15.46	-13.22/-16.01	-19.05/-17.99	-16.44/-16.8	-17.76/-15.98	-14.63/-15.39	-16.98/-14.95	-12.13/-11.22	-11.42/-12	-12.93/-13.33	-14.04/-16.47	-18.34/-18.39	-17.73/-18.39	-18.2/-18.64	-18.6/-18.18	-16.49/-16.5
Θ(180°)	-17.6/-18.96	-17.48/-18.35	-15.64/-14.29	-13.16/-13	-13.34/-13.27	-12.76/-12.28	-12.85/-12.9	-12.8/-13.07	-13.85/-14.3	-13.61/-11.76	-11.61/-13.3	-16.1/-18.45	-15.73/-12.58	-11.65/-13.93	-17.06/-19.06	-17.3/-12.93	-11.86/-11.77	-11.87/-12.35	-12.96/-13.8	-13.25/-13.86	-15.46/-16.82	-16.99/-18.31	-18.5/-18.87	-19.17/-19.13
Freq(GHz)	6.175GPol.	ThetaAnt. 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°)	-15.67/-16.24	-16.61/-15.87	-14.54/-11.66	-10.26/-9.03	-8.41/-7.22	-6.45/-5.76	-5.22/-4.62	-4.23/-3.69	-3.72/-3.84	-4.04/-4.57	-5.55/-6.11	-6.74/-8.18	-9.73/-11.81	-16.69/-16.96	-15.56/-13.55	-12.72/-12.23	-11.61/-10.23	-9.18/-8.19	-7.83/-7.22	-6.94/-7.31	-7.2/-8.11	-9.02/-9.81	-10.99/-11.5	-12.27/-13.05
Θ(7.5°)	-7.72/-8.77	-10.34/-10.27	-14.88/-15.78	-17.16/-18.52	-18.14/-16.67	-14.49/-11.93	-10.32/-9.18	-9.14/-9.04	-8.84/-9.18	-10.11/-14.48	-12.15/-11.89	-10.71/-9.72	-9.36/-8.12	-7.27/-7.03	-6.55/-6.5	-6.98/-6.75	-6.12/-5.54	-4.71/-4.27	-3.49/-2.87	-2.54/-2.32	-2.62/-2.71	-3.22/-3.86	-4.73/-5.36	-5.96/-6.93
Θ(15°)	-10.11/-12.15	-13.44/-12.22	-9.65/-8.98	-6.33/-6.85	-6.79/-6.85	-9.83/-14.82	-16.37/-11.81	-9.27/-9.36	-6.79/-12.45	-15.44/-16.08	-13.87/-12.82	-11.91/-10.89	-10.89/-9.84	-6.72/-9.01	-4.13/-2.22	-3.97/-2.92	-3.27/-3.57	-4.33/-4.84	-5.51/-5.42	-4.86/-4.19	-3.41/-3.2	-4.08/-4.97	-6.25/-8.43	
Θ(22.5°)	-13.66/-17.35	-13.98/-11.76	-10.68/-11.39	-13.32/-11.79	-9.52/-9.39	-11.88/-17.6	-17.48/-19.03	-15.19/-11.58	-8.81/-7.57	-8.18/-9.89	-14.31/-19.12	-17.95/-13.56	-10.27/-7.55	-5.56/-4	-3.48/-3.71	-4.22/-4.83	-4.92/-5.82	-7.19/-8.65	-9.16/-8.95	-7.85/-6.79	-5.78/-5.54	-5.94/-5.6	-5.08/-5.4	-6.58/-9.33
Θ(30°)	-9.52/-10.84	-10.32/-8.46	-6.36/-5.18	-5.04/-9.1	-17.75/-15.05	-12.52/-11.9	-7.69/-6.76	-5.83/-5.27	-5.56/-6.94	-7.23/-9.54	-11.78/-8.46	-5.32/-5.37	-5.38/-3.37	-2.11/-2.09	-3.36/-4.7	-5.26/-6.5	-9.36/-14.89	-17.69/-17.77	-18.58/-14.38	-11.26/-9.38	-7.57/-4.96	-2.79/-5.23	-3.72/-5.9	
Θ(37.5°)	-0.56/-3.21	-8.28/-10.29	-0.06/-1.8	-0.78/-2.63	-1.05/-3.56	-3.98/-4.14	-3.72/-3.91	-4.45/-3.76	-4.26/-4.5	-4.64/-3.94	-2.46/-2.6	-5.54/-5.74	-4.04/-5.46	-5.71/-4.1	-3.63/-3.88	-3.36/-3.51	-3.81/-3.8	-4.23/-4.95	-3.84/-2.36	-1.99/-2.33	-2.33/-3.78	-7.54/-8.43	-4.62/-2.09	-2.24/-1.73
Θ(45°)	2.8/3.24	1.57/-1.11	-2.73/-0.05	0.760/0.32	0.55/-0.23	-1.94/-0.82	-0.09/-0.26	-1.69/-2.63	-2.24/-2.78	-2.94/-1.09	-0.24/-0.16	-3/-5.32	-5.27/-3.85	-2.19/-2.86	-1.520/-55	1.820/52	-1.78/-2.49	-1.80/-16	1.972/96	3.122/69	2.28/134	-0.13/-1.65	-0.91/-0.57	-2.120/-18
Θ(52.5°)	4.685/4.1	4.022	0.290/7.8	1.181/5.1	1.13/-1.37	-2.69/-4.1	-1.45/-2.27	-0.33/-6.65	-2.130/24	0.150/84	0.2/-1.33	-4.48/-4.7	-4.15/-17.5	-0.20/-39	2.453/25	3.390/69	-0.750/-06	0.772/29	3.172/64	2.261/79	2.432/34	2.38/-1.7	2.061/53	0.15/-95
Θ(60°)	4.774/8.89	3.662/0.2	2.461/9.3	2.532/8	2.103/3	-0.89/-1.78	-2.17/-2.46	-4.76/-4.3	-4.05/-30.1	-2.55/-4.02	-3.56/-4.24	-1.49/-0.13	1.532/78	4.173/84	2.810/07	0.221/58	2.682/96	1.952/49	2.642/37	0.580/23	2.682/96	3.082/93	2.842/26	1.582/5
Θ(67.5°)	4.133/96	2.991/3.2	2.9/2.57	3.353/96	3.312/48	-0.05/-2.73	0.541/3	-2.61/-3.44	-4.01/-8.31	-4.95/-4.04	-2.38/-3.94	-5.96/-1.21	0.44/-1.11	2.763/2	4.513/64	3.691/51	1.472/64	2.362/64	2.92/42	1.24/-1.72	3.973/01	2.651/87	1.842/01	2.273/02
Θ(75°)	2.211/74	3.131/44	2.693/36	3.854/49	3.562/66	0.53/-2.94	2.044/37	1.75/-5.02	-1.21/-2.04	1.571/-29	0.56/-2.44	-5.06/-1.69	-0.871/-61	2.2/73	3.652/5	3.582/88	2/26	2.4/3.15	2.4/-2.31	1.642/31	3.011/66	1.070/36	0.291/32	1.751/57
Θ(82.5°)	0.110/25	3.481/22	1.863/03	3.344/52	2.671/39	-0.13/-4.18	1.945/08	3.391/07	0.52/-0.12	2.852/34	0.18/-3.9	-5.56/-0.99	-0.98/-2.4	0.992/45	1.671/34	3.663/55	2.392/38	2.252/27	0.871/49	2.292/48	1.040/24	-0.86/-2.08	-1.880/28	1.120/-17
Θ(90°)	-2.24/-1.36	2.610/95	0.581/15	1.573/75	1.18/-0.07	-2.84/-8.53	0.013/95	3.21/02	-0.56/-1.12	3.172/04	-0.99/-7.02	-0.752/8	-0.951/59	-1.230/32	2.343/25	1.81/5	0.580/22	-1.5710/66	1.950/66	-0.750/-205	-2.01/-4.63	-3.59/-0.56	0.56/-2.25	
Θ(97.5°)	-4.09/-2.91	1.211/01	-1.11/-1.81	-0.122/59	0.02/-2.39	-6.56/-8.7	-1.21/-65	1.49/-0.77	-2.7/-3.27	0.1710/13	-2.85/-9.01	-9.27/-4.46	-0.440/-95	-2.23/-1.11	-3.920/-07	0.640/98	0.25/-1.72	-2.81/-2.92	-4.450/25	-0.07/-2.46	-2.5/-3.01	-2.59/-6.04	-3.7/-1.95	-0.23/-3.61
Θ(105°)	-6.18/-7.93	-0.960/-1	-2.55/-5.38	-2.320/67	-0.44/-3.84	-6.86/-4.82	-1.75/-2.04	-1.3/-2.28	-3.52/-5.94	-0.39/-1.51	-5.14/-10.96	-10.77/-6.55	-2.32/-1.03	-2.78/-2.53	-3.29/-2.64	-2.66/-5.6	-2.59/-6.83	-8.61/-5.01	-9.69/-2.76	-5.24/-4.54	-3.2/-6.51	-3.63/-4.38	-5.26/-4.24	-2.6/-3.43
Θ(112.5°)	-12.46/-13.33	-10.81/-7.1	-2.94/-5.28	-2.58/-1.85	-1/-2.94	-8.53/-6.59	-3.02/-4.39	-3.14/-4.53	-5.79/-6.38	-2.44/-4.31	-7.91/-10.27	-8.42/-6.17	-1.71/-2.21	-4.54/-2.93	-5.127/-08	-1.67/-5.46	-4.61/-16.43							



Radiated Composite Gain Data_6G (4TX)

Appendix E

Θ(120°)	-17.9/-16.33	-14.41/-17.5	-17.52/-14.79	-16.48/-14.25	-12.17/-15.78	-18.91/-18.52	-18.46/-12.01	-11.89/-17.88	-18.31/-15.99	-17.91/-18.07	-17.9/-17.73	-13.13/-17.77	-18.19/-17.68	-14.81/-17.76	-17.63/-19.03	-14.45/-14	-17.39/-15.96	-8.29/-18.9	-12.11/-13.88	-18.48/-18.28	-16.66/-16.83	-18.05/-14.49	-11.29/-12.9	-16.23/-14.25
Θ(127.5°)	-13.46/-18.3	-19.4/-18.4	-16.77/-10.81	-15.64/-18.36	-14.09/-14.54	-18.83/-15.38	-18.69/-14.88	-13.09/-18.54	-19.11/-18.11	-12.75/-13.12	-17.44/-16.34	-15.85/-18.95	-13.41/-11.87	-13.81/-16.81	-12.82/-18.31	-16.65/-15.3	-18.14/-11.84	-6.27/-18.89	-18.98/-12.17	-18.13/-11.35	-18.29/-19.24	-11.03/-15.47	-16.83/-14.46	-14.43/-14.01
Θ(135°)	-13.98/-16.14	-16.25/-17.13	-17.39/-14.31	-12.55/-17.52	-18.28/-18.58	-16.31/-13.29	-10.25/-17.3	-18.71/-13.09	-12.69/-18.2	-19.15/-46	-18.64/-9.56	-10.53/-18.24	-9.21/-15.51	-18.09/-17.87	-13.43/-15.6	-14.55/-9.7	-10.13/-17.42	-18.64/-12.81	-13.71/-17.2	-9.99/-17.12	-15.41/-12.26	-12.36/-13.83	-18.63/-12.91	-18.62/-12.93
Θ(142.5°)	-13.55/-11.57	-10.1/-18.68	-10.97/-16.41	-18.2/-17.96	-13.53/-19.11	-18.66/-16.07	-18.45/-18.76	-18.78/-17.57	-17.11/-13.96	-11.64/-14.47	-14.21/-19.22	-13.42/-12.61	-17.53/-15.32	-18.81/-15.42	-18.54/-12.93	-12.97/-12.81	-19.21/-16.56	-11.89/-18.97	-18.86/-18.27	-13.31/-18.8	-18.31/-11.83	-18.2/-16.63	-12.48/-16.04	-10.38/-17.23
Θ(150°)	-18.31/-16.78	-13.49/-11.7	-9.65/-18.07	-11.69/-13.97	-16.1/-18.14	-12.58/-19.5	-9.93/-13.22	-18/-18.7	-18.18/-14	-11.28/-13.17	-15.87/-11.83	-12.96/-15.5	-16.37/-14.98	-16.59/-17.29	-10.88/-18.2	-17.9/-13.18	-14.03/-14.44	-18.77/-18.22	-16.75/-14.78	-17.42/-13.59	-10.47/-15.85	-14.8/-19.04	-16.83/-19.25	-15.52/-10.55
Θ(157.5°)	-15.11/-19.09	-17.47/-18.27	-18.12/-14.81	-9.88/-8.83	-10.58/-11.59	-15.27/-13.99	-12.95/-14.43	-11.16/-10.55	-11.84/-19.58	-10.92/-10.55	-16.91/-18	-19.65/-15.6	-13.91/-11.18	-7.51/-174	-10.82/-17.29	-18.63/-18.69	-14.84/-18.44	-16.78/-16.01	-17.87/-17.47	-18.27/-15.76	-11.66/-12.87	-15.8/-16.17	-18.91/-18.77	-16.82/-12.93
Θ(165°)	-14.6/-17.75	-18.53/-17.88	-17.39/-18.46	-18.38/-17.14	-17.27/-18.37	-17.98/-14.53	-14/-17.51	-18.7/-13.48	-11.52/-11.35	-11.98/-15.18	-12.83/-10.04	-11.1/-12.9	-18.06/-19.02	-9.69/-8.25	-12.59/-17.93	-10.32/-8.77	-13.64/-19.27	-15.91/-14.75	-18.22/-18.6	-17.94/-17.96	-18.16/-14.22	-12.81/-12.39	-11.39/-11.12	-11.93/-13.59
Θ(172.5°)	-12.96/-15.43	-17.81/-17.87	-19.03/-19.31	-17.84/-16.87	-16.83/-18.82	-17.7/-18.83	-18.27/-16	-14.44/-12.93	-11.52/-10.39	-9.61/-10.46	-12.59/-18.05	-18.13/-18.07	-15.9/-14.44	-14.44/-14.78	-16.67/-19.25	-18.01/-16.99	-18.31/-17.74	-18.39/-18.75	-17.62/-18.94	-16.92/-13.83	-12.11/-12.07	-10.63/-10.39	-11.27/-10.89	-11.27/-10.89
Θ(180°)	-18.74/-17.87	-18.55/-18.81	-19.5/-18.8	-18.62/-18.04	-18.29/-18.37	-18.66/-18.06	-15.52/-15.69	-16.42/-16.81	-18.65/-17.92	-17.8/-17.57	-17.69/-19.12	-19.1/-17.47	-18.2/-17.13	-17.44/-17.48	-17.81/-18.59	-18.54/-17.38	-16.04/-16.41	-17.3/-18.43	-19.32/-18.03	-18.51/-18.92	-18.1/-18.97	-18.77/-18.49	-17.88/-18.11	-18.27/-18.09
Freq(Hz)	6.695GPdL	ThetaAnt.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°)	-16.21/-17.98	-18.24/-18.06	-16.94/-15.26	-14.64/-14.23	-13.47/-11.74	-10.17/-9.37	-8.82/-3.84	-7.87/-8.11	-7.51/-7.42	-7.63/-7.7	-8.04/-8.49	-8.9/-9.52	-9.8/-10.47	-11.89/-14.04	-16.64/-19.2	-18.81/-18.89	-19.4/-16.78	-14.76/-14.82	-12.97/-12.13	-11.53/-10.2	-10.27/-10.28	-11.43/-11.77	-13.72/-14.64	-15.68/-15.64
Θ(7.5°)	-10.45/-10.36	-9.73/-10.01	-11.71/-13.39	-17.79/-18.92	-18.57/-11.95	-17.35/-16.57	-15.23/-14.23	-14.71/-14.34	-14.66/-14.3	-16.66/-16.26	-17.81/-17.75	-17.45/-18.12	-18.74/-14.82	-12.4/-11.09	-10.8-73	-8.78/-8.25	-7.91/-7.72	-6.9/-7.09	-6.87/-7.16	-7.1/-17.33	-8.04/-8.24	-9.38/-10.25	-16.23/-14.25	-18.62/-12.93
Θ(15°)	-4.45/-3.68	-4.04/-5.52	-8.14/-12.63	-18.51/-19.12	-15.72/-12.77	-11.65/-12.26	-13.62/-13.01	-11.53/-10.35	-9.91/-11.67	-16.78/-19.09	-17.22/-16.82	-15.05/-12.26	-10.31/-8.99	-7.52/-6.82	-6.72/-6.82	-7.79/-8.77	-8.55/-8.83	-7.95/-7.68	-8.09/-9.26	-10.82/-13.08	-14.64/-13.1	-10.82/-8.29	-6.75/-6.14	-5.32/-4.94
Θ(22.5°)	-8.68/-10.79	-14.46/-18.6	-17.98/-15.99	-12.66/-13.14	-18.39/-18.52	-17.81/-18.33	-17.28/-18.98	-18.23/-14.33	-10.67/-8.7	-9.01/-11.87	-15.64/-15.99	-15.83/-14.03	-12.59/-12.96	-13.83/-17.03	-18.71/-16.32	-12.28/-9.59	-7.83/-8.77	-6.88/-6.11	-5.68/-5.9	-5.79/-6.76	-8.51/-12.01	-15.25/-12.39	-7.98/-5.76	-4.68/-6.18
Θ(30°)	-8.58/-11.82	-12.21/-9.86	-9/-8.07	-3.32/-0.75	-0.97/-4.15	-12.18/-11.09	-6.29/-4.56	-5.12/-5.77	-5.66/-6.64	-8.97/-11.4	-13.22/-10.4	-7.49/-6.45	-5.85/-5.05	-7.04/-11.38	-12.26/-11.02	-12.83/-12.88	-12.89/-16.03	-1.88/-2.27	-3.78/-2.42	-4.66/-17.34	-9.74/-9.38	-7.26/-6.54	-16.23/-14.25	-18.62/-12.93
Θ(37.5°)	-3.98/-2.02	-2.49/-3.3	-2.66/-4.22	-4.32/-1.76	-1.27/-2.79	-4.57/-0.61	-6.62/-7.33	-8.69/-9.17	-9.34/-7.84	-5.36/-4.96	-5.61/-5.78	-5.95/-7.48	-5.79/-3.98	-3.35/-3.36	-2.53/-5.33	-13.3/-17.95	-18.5/-18.08	-14.64/-11.33	-9.11/-5.56	-3.58/-3.84	-4.55/-2.81	-1.56/-1.01	-0.69/-2.86	-5.22/-6.09
Θ(45°)	-4.77/-18.04	-0.89/-2.17	-2.82/-3.53	-3.9/-2.34	-0.310.58	-1.41/-1.38	-8/-8.56	-10/-12.92	-9.03/-7.5	-3.54/-0.98	-0.37/-1.69	-4.49/-10.62	-9.83/-5.86	-0.320.32	-0.46/-1.14	-0.34/-1.43	-0.75/-1.25	-2.63/-1.72	0.120.83	-0.28/-2.11	-1.46/-1.46	-2.56/-3.45	-1.22/-1.08	-1.46/-4.23
Θ(52.5°)	0.511/-16	0.35/-2.72	-0.59/-0.4	-0.45/-0.16	0.582.07	-0.29/-4.56	-7.32/-5.17	-1.43/-1.12	-1.50/-67	0.91/-1	-4.46/-7.73	-7.73/-14.2	1.392.48	1.532.39	0.14/-0.01	1.740.96	-0.360.38	2.672.57	2.272.1	2.310.69	-0.320.33	-1.13/-1.5	2.42.03	-16.23/-14.25
Θ(60°)	3.283.01	2.240.23	2.011.26	1.562.64	1.571.35	-0.3/-3.34	1.592.09	1.590.7	1.431.3	-2.56/-4.12	-3.62/-2.03	0.973.69	2.962.94	1.12/-0.9	0.08/-1.2	-1.220.31	1.362.04	4.233.78	2.890.55	0.940.14	0.282.44	4.84.31	-16.23/-14.25	-18.62/-12.93
Θ(67.5°)	2.432.72	0.882.27	3.32/-1.5	0.893.43	2.052.14	1.78/-2.55	-3.460.6	0.6/-0.07	-1.26/-1.48	-1.97/-3.32	-9.96/-7.48	-0.541.35	0.51/-1.18	1.783.27	3.05/-1.87	2.03/-0.67	-2.94/-3.42	-0.280.58	1.452.66	5.263.75	1.420.28	2.11/-1.27	-0.480.9	3.913.51
Θ(75°)	2.292.7	-2.242.33	2.690.48	0.534.16	2.893.2	1.69/-3.63	-1.922.08	3.32.48	-0.670.6	-0.62/-1.93	-6.08/-9.84	0.242.83	3.842.4	1.882.3	1.670.12	2.270.03	4.26/-3.76	0.310.6	1.272.75	5.213.36	0.280.8	2.531.09	-1.91/-0.78	2.62.49
Θ(82.5°)	1.632.45	-5.522.04	1.14/-2.17	-0.613.39	3.062.85	0.38/-1.81	-0.21/-41	2.812.42	-0.860.86	0.38/-1.24	-5.3/-6.06	0.292.38	3.92.5	1.842.1	-0.280.28	2.10.29	-4.15/-4.29	-0.130.57	1.451.98	3.821.2	1.260.64	-1.9/-2.57	0.890.94	-16.23/-14.25
Θ(90°)	0.411/-7	-6.680.21	-1.34/-3.35	-1.63/-1.47	1.960.64	-0.18/-0.5	0.530.1	0.83/-1.41	-1.41/-1.26	-3.46/-1.91	-4.6/-6.05	-2.260.75	2.522.57	0.48/-0.87	-4.21/-4.43	0.630.39	-3.29/-3.3	0.083.68	0.421.12	0.36/-1.15	-2.65/-0.54	-0.56/-1.75	-2.24/-3.18	-1.17/-0.57
Θ(97.5°)	-1.23/-1.01	-5.94/-2.59	-5.74/-13.8	-3.42/-1.02	-0.29/-1.67	-1.05/-1.06	-0.11/-0.56	-1.4/-8.63	-2.74/-1.86	-5.79/-2.47	-7.04/-10.73	-4.470.07	0.632.69	-2.24/-2.79	-8.3/-5.72	-3.38/-2.47	-3.75/-1.74	-1.2/-10.5	-2.68/-2.04	-3.29/-4.09	-2.83/-2.6	-4.74/-11.1	-3.22/-3.49	-3.79/-2.71
Θ(105°)	-5.82/-4.79	-5.65/-3.85	-4.74/-3.77	-5.51/-3.29	-4.21/-5.53	-3.87/-3.81	-2.18/-1.48	-3.52/-3.93	-2.08/-3.37	-2.44/-2.76	-9.36/-18.09	-9.60/-1.85	-0.561.56	-4.99/-6.07	-6.4/-4.64	-6.89/-5.96	-3.65/-4.83	-5.51/-5.48	-10.61/-6.48	-4.74/-6.66	-4.86/-4.8	-5.62/-3.5	-4.87/-5.46	-16.23/-14.25
Θ(112.5°)	-6.55/-7.78	-4.73/-4.16	-3.05/-7.72	-8.93/-2.74	-6.47/-8.46	-12.62/-10.33	-3.04/-3.54	-1.29/-1.8	-2.7/-0.81	-2.02/-0.61	-1.782.94	-6.190.4	-1/-2.15	-11.21/-6.1	-4.78/-5.75	-13.54/-9.29	-4.96/-7.95	-6.97/-8.46	-4.85/-8.03	-4.81/-10.3	-16.08/-4.67	-2.37/-7.96	-11.17/-8.88	-4.85/-5.67
Θ(120°)	-4.55/-3.73	-8.26/-4.7	-2.29/-13.32	-7.7/-2.08	-2.79/-4.23	-10.18/-10.94	-13.59/-11.18	-6.5/-9.32	-7.45/-11.23	-6.95/-8.11	-10.15/-10.98	-9.95/-3.61	-3.54/-8.74	-8.55/-7.62	-4.48/-8.69	-13.57/-6.11	-1.64/-10.8	-8.29/-9.82	-9.79/-3.77	-5.35/-3.79	-7.7/-5.88	-5.87/-4.74	-7.85/-15.58	-5.82/-4.87
Θ(127.5°)	-5.88/-10.75	-1.55/-4.52	-2/-3.38	-9.9/-7.99	-7.59/-3.72	-5.45/-6.78	-5.94/-4.53	-9.53/-10.21	-9.21/-6.28	-7.41/-8.91	-11.57/-15.85	-9.47/-1.35	-6.05/-4.43	-13.99/-8.93	-10.49/-12.76	-7.32/-12.53	-8.08/-14.51	-13.72/-8.02	-13.88/-12.93	-7.41/-4.49	-16.91/-11.74	-5.21/-5.25	-9.06/-12.96	-10.27/-18.9
Θ(135°)	-8.77/-8.5	-19.02/-8.77	-11/-10.72	-6.18/-9.27	-12.29/-13.46	-9.4/-9.58	-5.28/-17.44	-8.68/-7.5	-8.97/-8.76	-4.7/-11.8	-10.58/-9.79	-8.12/-4.38	-5.32/-8.51	-19.03/-13.08	-18.92/-9.61	-15.01/-9.04	-8.79/-10.57	-11.52/-4.73	-17.95/-9.29	-5.48/-9.89	-10.06/-9.22	-6/-5.14	-19.28/-14.86	-16.24/-6.25
Θ(142.5°)	-11.12/-16.12	-10.21/-9.68	-7.49/-7.28	-8.87/-7.67	-7.23/-7.78	-8.83/-7.17	-8.56/-7.8	-6.81/-12.03	-9.97/-9.25	-10.03/-8.64	-5.42/-8.69	-10.36/-8.7	-11.77/-17.38	-7.34/-13.81	-9.21/-9.38	-13.6/-11.92	-13/-14.07	-5.84/-3.6	-15.86/-16.26	-5.25/-9.14	-10.07/-12.4	-8.73/-10.31	-11.58/-11.23	-14.81/-6.69
Θ(150°)	-17.92/-17.95	-13.85/-14.12	-16.52/-14.7	-16.52/-14.7	-12.61/-13.91	-16.32/-15.7	-9.29/-7.68	-6.24/-6.16	-6.34/-7.49	-8.21/-13.3	-11.13/-7.64	-10.18/-14.81	-10.33/-15.44	-13.25/-14.78	-15.94/-16.74	-13.3/-12.66	-13.24/-18.48	-12.66/-12.3	-18.54/-18.69	-12.2/-12.46	-13.45/-12.41	-16.84/-12.53	-16.68/-15.14	-14.29/-15.19
Θ(157.5°)	-17.92/-18.02	-18.91/-15.34	-8.95/-7.29	-10.82/-17.22	-18.84/-18.51	-17.7/-17.96	-10.79/-7.58	-8.35/-10.73	-11.47/-8.42	-6.43/-8.1	-13.75/-18.75	-15.56/-18.48	-12.35/-9.88	-15.27/-18.06	-19.22/-16.51	-9.14/-8.92	-16.45/-12.99	-10.82/-14.47	-18.39/-18.28	-10.37/-7.33	-7.5/-10.01	-11.93/-12.91	-16.25/-19.14	-18.09/-18.74
Θ(165°)	-18.02/-19.04	-18.7/-17.92	-18.79/-15.77	-17.29/-19.12	-17.84/-16.66	-15.96/-11.65	-9.38/-19.29	-9.79/-25.5	-8/-24	-11.98/-12.38	-12.47/-15.46	-17.61/-19.49	-18.61/-18.79	-19.53/-10.91	-7.2/-2.06	-8.9/-8.96	-11.43/-12.23	-13.46/-15.45						



Radiated Composite Gain Data_6G (4TX)

Appendix E

Θ (165°)	-9.12/-12.17	-19.24/-18.14	-17.8/-18.76	-13.1/9.65	-9.84/-14.73	-15.63/-10.31	-9.41/-13.45	-18.58/-12.25	-9.61/-10.94	-15.06/-18.57	-18.1/-18.02	-16.61/-13.44	-12.75/-15.03	-18.76/-18.87	-13.87/-10.69	-11.5/-13.68	-17.27/-19.31	-17.25/-12.67	-13.35/-16.94	-19.85/-18.05	-15.29/-14.82	-17.98/-19.33	-19.17/-16.41	-10.39/-7.84
Θ (172.5°)	-11.32/-11.36	-14.59/-17.77	-19.51/-15.71	-13.78/-10.62	-9.86/-10.92	-11.47/-10.76	-10.68/-11.49	-13.82/-18.23	-18.37/-18.16	-18.6/-18.14	-17.8/-17.12	-19.13/-17.88	-18.3/-14.39	-11.26/-9.42	-8.79/-9.91	-13.83/-18.65	-18.35/-15.36	-12.08/-10.98	-13.04/-16.17	-18.79/-18.07	-17.49/-18.07	-16.66/-14.17	-13.65/-15.68	-19.03/-13.67
Θ (180°)	-13.14/-18.9	-19.36/-18.71	-19.77/-18.54	-17.17/-15.77	-13.21/-11.92	-10.28/-9.62	-9.1/-8.52	-7.78/-7.59	-8.13/-8.92	-9.76/-9.98	-9.78/-10.04	-11.04/-12.13	-14.3/-18.11	-17.59/-18.27	-18.84/-18.96	-17.18/-16.27	-15.99/-15.23	-14.62/-13.88	-13.6/-12.75	-12.33/-11.33	-9.75/-8.47	-13.97/-13.96	-16.95/-16.65	
Freq(Hz)	6.175GPol.	ThetaAnt.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°)	-7.49/-6.89	-6.42/-6.48	-6.44/-5.93	-5.77/-5.79	-5.73/-5.79	-5.67/-6.35	-6.97/-6.65	-7.91/-8.83	-9.88/-10.45	-10.9/-12.47	-14.54/-15.18	-15.27/-16.47	-17.12/-16.86	-15.19/-12.95	-11.53/-10.67	-10.34/-10.62	-10.11/-10.7	-10.93/-11.43	-12.45/-12.16	-13.43/-13.89	-15.35/-15.6	-13.61/-12.45	-11.78/-11.17	-8.82/-8.36
Θ(7.5°)	-19.22/-19.13	-17.34/-18.98	-19.37/-18.11	-15.69/-14.42	-12.2/-11.73	-10.71/-11.36	-12.38/-14.47	-17.8/-18.79	-17.87/-18.21	-17.99/-15.85	-13.01/-10.95	-9.57/-8.97	-8.48/-7.71	-6.78/-6	-5.52/-5.2	-4.74/-4.3	-4.03/-4.15	-4.27/-4.49	-4.46/-4.77	-4.99/-5.67	-6.76/-7.8	-8.92/-10.25	-12.1/-13.53	-15.01/-16.66
Θ(15°)	-9.47/-8.17	-7.68/-8.32	-9.32/-10.32	-11.55/-13.32	-15.69/-15.79	-14.35/-13.51	-13.23/-13.43	-13.87/-14.52	-16.66/-19.19	-18.11/-19.51	-18.44/-11.44	-9.48/-8.83	-9.12/-9.66	-9.29/-9.51	-9.04/-8.93	-8.32/-7.18	-6.63/-4.68	-4.24/-3.89	-3.93/-3.42	-3.4/-3.59	-4.6/-6.21	-8.25/-11.99	-15.43/-17.27	-14.54/-11.96
Θ(22.5°)	-14.13/-14.2	-14.61/-11.83	-7.79/-6	-5.01/-4.6	-4.69/-5.12	-6.42/-8.02	-10.19/-12.58	-14.99/-18.41	-17.95/-18.71	-18.94/-18.83	-17.17/-15.33	-14.33/-12.4	-11.38/-10.66	-11.37/-15.51	-13.78/-17.89	-16.84/-11.2	-7.35/-5.64	-5.7/-3.67	-6.62/-5.29	-3.09/-1.95	-1.85/-2.93	-5.68/-10.11	-15.33/-17.17	-13.99/-13.52
Θ(30°)	-5.22/-7.06	-7.2/-7.3	-6.17/-5.09	-5.28/-4.6	-3.13/-3.35	-4.77/-6.33	-6.34/-5	-4.82/-5.45	-6.23/-5.62	-4.29/-3.85	-4.7/-6.32	-8.04/-8.61	-8.33/-7.94	-7.74/-7.23	-8.18/-8.13	-7.94/-5.55	-2.72/-1.95	-2.19/-2.71	-2.45/-1.87	-0.920.3	0.903.1	-0.51/-1.41	-1.88/-1.7	-1.82/-3.06
Θ(37.5°)	-2.6/-2.75	-1.45/-2.05	-5.85/-8.81	-7.17/-3.98	-4.41/-4.76	-4.41/-4.76	-2.13/-1.87	-1.76/-0.81	-0.1/-0.35	-1.79/-2.81	-3.49/-4.06	-5.07/-6.45	-5.62/-3.6	-3.75/-5.75	-5.76/-4.13	-2.53/-2.68	-4.12/-3.97	-1.40/-12	0.04/-0.86	-0.72/-0.35	0.310.9	1.320.97	-0.42/-1.59	
Θ(45°)	-5.8/-6.01	-1.220.96	-0.03/-1.49	-3.27/-0.74	-0.16/-1.4	-1.91/-0.69	-0.54/-1.26	-1.710.22	0.29/-0.29	0.01/-0.38	-0.9/-0.17	0.28/-0.24	-1.89/-4.32	-4.54/-3.19	-0.96/-0.15	0.020.56	0.43/-0.83	-1.57/-1.16	-0.130.94	1.25/-1.15	2.142.56	2.040.01	-1.67/-2.23	-2.91/-5
Θ(52.5°)	-7.36/-6.9	-1.930.93	-0.43/-1.92	-2.68/-1.01	-1.08/-2.42	-2.21/-0.15	-0.16/-2.31	-1.680.08	-0.97/-1.59	-0.57/-0.11	1.122.94	2.92/-1.16	0.04/-0.5	-0.73/-1.93	12/-15	2.742.44	2.31/-8.9	1.45/-1.03	0.640.8	1.28/-1.66	4.035.69	5.330.08	0.61/-1.75	-2.29/-4.47
Θ(60°)	-2.214/-5.8	-1.89/-1.34	-1.25/-5.07	-3.59/-2.27	-2.42/-5.04	-6.11/-4.52	-3.45/-3.35	-1.82/-4.02	-1.1/-2.4	1.262.02	2.135.3	4.052.53	0.760.92	0.09/-3.49	0.54/-3	2.872.09	2.612/-35	1.760.71	0.650.32	0.63/-1.25	3.855.44	5.955.24	3.160.55	0.51/-0.77
Θ(67.5°)	-0.06/-1.8	-0.572.4	1.1/-1.6	1.01/-0.4	-2.94/-5.4	-3.78/-2.35	-2.71/-3.1	0.611.12	2.032.13	4.56/-1.4	2.370.33	3.662.93	1.140.85	-0.94/-5.57	-0.522.64	2.19/-1.23	2.142.25	1.81/-0.39	-1.02/-0.52	0.160.42	3.13/-42	4.394.99	4.492.42	2.61/-2.5
Θ(75°)	-0.83/-0.11	1.193.39	2.452.14	3.662.22	0.33/-1.1	-0.55/-0.37	-0.92/-0.1	2.352.7	3.534.5	4.824.59	1.28/-1.1	3.223.42	2.09/-0.2	-1.27/-4.73	-1.632.77	2.24/-0.12	1.012.7	2.390.05	-2.82/-1.55	-0.30/-18	1.520.58	1.960.77	4.172.92	1.980.27
Θ(82.5°)	-3.420.7	1.613.35	1.52/-6	3.34/-11	0.860.56	-0.36/-1.34	-0.21/-0.22	1.742.09	2.734.68	4.03/-9	-0.02/-0.1	2.632.72	2.41/-0.24	-1.76/-2.67	-1.78/-1.72	1.2/-1	0.673.32	3.52/-0.74	-4.55/-1.97	-1.26/-0.3	-0.16/-2.91	-0.78/-1.83	2.722.24	0.6/-1.7
Θ(90°)	-5.290.02	1.282.53	0.091.36	2.190.36	-0.501.65	-2.19/-4.15	-1.04/-0.76	-0.420.35	1.373.78	3.021.76	-0.77/-1.67	0.32/-88	2.96/-1.11	-1.3/-8.35	-4.20/-26	0.21/-3.45	-0.630.99	-6.63/-3.04	-2.68/-0.48	-1.81/-4.91	-3.11/-1.02	1.271.15	-1.06/-5.03	
Θ(97.5°)	-6.15/-2.19	0.490.52	-2.24/-0.03	0.41/-2.8	-3.26/-0.75	-4.98/-7.37	-2.31/-1.51	-1.360.09	0.542.81	1.82/-0.55	-2.44/-2.49	0.191.76	1.87/-0.92	-2.96/-8.16	-5.26/-1.32	-2/-5.65	-3.34/-1.89	1.05/-4.62	-6.88/-6.11	-5.47/-2.91	-5.52/-7.03	-4.99/-3.28	0.41/-1.08	-3.78/-10.99
Θ(105°)	-11.57/-4.08	-1.94/-2.32	-4.8/-2.12	-1.78/-5.04	-6.38/-3.97	-7.61/-8.8	-5.26/-6.32	-1.97/-1.51	-2.08/-1.49	1.43/-0.96	-5.3/-2.29	-1.74/-0.2	0.56/-2.38	-4.08/-6.37	-11.24/-4	-2.37/-6.93	-8.02/-15.9	-3.37/-8.19	-9.92/-10.19	-12.33/-7.46	-12.05/-9.42	-8.06/-3.62	-1.72/-1.72	-6.34/-13.83
Θ(112.5°)	-9.93/-6.11	-3.99/-2.73	-5.1/-5.23	-2.53/-3.93	-4.56/-6.81	-7.9/-7.7	-7.4/-8.26	-5.25/-6.33	-3.95/-1.18	-0.83/-3.68	-7.12/-6.77	-3.27/-1.98	-4.42/-8.93	-7.22/-1.41	-5.15/-10.02	-6.48/-3.59	-2.26/-6.59	-8.48/-13.7	-1.77/-1.87	-7.74/-7.77	-4.55/-4.44	-3.36/-4.4	-6.67/-18.8	
Θ(120°)	-10.28/-8.17	-3.25/-1.3	-2.63/-5.26	-3.41/-2.87	-4.38/-6.5	-7.94/-6.72	-6.2/-10.56	-11.04/-4.78	-7.13/-3.34	-3.64/-10.21	-10.22/-9.56	-9.13/-4.42	-3.52/-4.26	-10.53/-16.69	-14.89/-5.05	-5.48/-19.16	-4.83/-5.48	-3.97/-7.25	-8.44/-15.09	-12.65/-6.76	-8.55/-7.84	-6.32/-5.16	-4.88/-7.21	-5.79/-17.32
Θ(127.5°)	-14.55/-8.9	-5.64/-3.75	-3.31/-6.67	-9.59/-4.9	-6.87/-1.38	-16.04/-1.86	-10.04/-1.83	-9.43/-5.67	-3.9/-5.7	-6.74/-13.68	-17.53/-6.79	-3.53/-4.27	-5/-8.49	-13.21/-15.67	-18.63/-6.51	-6.07/-13.2	-8.82/-8.95	-10.01/-7.48	-8.75/-12.28	-4.42/-12.19	-8/-3.4	-3.59/-7.92	-10.11/-14.28	
Θ(135°)	-13.54/-11.7	-10.49/-5.75	-5.64/-6.25	6.11/-4.27	-6.69/-9.48	-11.03/-12.27	-11.95/-12.19	-10.58/-6.61	-2.99/-4.83	-7.13/-6.72	-8.08/-11.8	-3.87/-4.05	-2.41/-8.54	-19.03/-17.65	-18.78/-13.05	-4.29/-16.42	-14.14/-9.78	-8.44/-17.92	-9.59/-10.2	-11.91/-17.86	-10.91/-9.8	-13.96/-10.13	-2.89/-7.32	-17.27/-13.87
Θ(142.5°)	-17.68/-12.29	-8.61/-7.83	-9.14/-10.33	-9.83/-9.71	-9.23/-11.84	-17.99/-18.35	-18.26/-15.49	-10.19/-9.96	-7.92/-8.06	-14.31/-12.92	-9.18/-7.2	-8.55/-11.15	-17.87/-17.66	-17.58/-18.93	-18.47/-11.55	-9.35/-14.72	-18.43/-8.09	-10.6/-16.61	-10.7/-8.4	-13.55/-14.56	-10.53/-9.23	-10.26/-6.58	-7.51/-13.93	-12.27/-15.39
Θ(150°)	-11.45/-17.33	-16.47/-8.58	-4.47/-1.49	-6.13/-8.63	-8.43/-8.79	-10.62/-10.44	-9.08/-5.95	-3.61/-3.68	-6.98/-10.7	-10.9/-11.46	-15.96/-15.16	-9.05/-8.82	-10.87/-15.89	-16.41/-10.1	-10.84/-12.39	-14.59/-12.04	-12.71/-11.05	-10.59/-16.63	-17.5/-15.91	-18.39/-19.1	-18.62/-9.38	-6.54/-7.3	-5.91/-7.03	-7.89/-9.35
Θ(157.5°)	-10.66/-11.21	-10.01/-8.94	-8.54/-7.18	-7.61/-10.63	-18.48/-18.06	-18.66/-17.73	-14.46/-8.97	-6.55/-6.58	-6.05/-9.2	-16.16/-13.71	-9.53/-10.13	-11.26/-13.21	-18.64/-19.01	-15.37/-14.07	-14.71/-17.13	-14.25/-9.01	-7.61/-10.13	-16.31/-17.38	-16.1/-11.7	-12.87/-16.72	-11.15/-9.53	-9.68/-9.13	-8.8/-9.78	
Θ(165°)	-16.34/-13.56	-12.92/-14.38	-12.88/-9.86	-7.91/-6.89	-5.76/-5.27	-6.1/-7.93	-8.71/-9.56	-12.25/-18.39	-18.77/-18.84	-18.73/-17.83	-15.56/-13.25	-11.51/-12.06	-13.54/-13.31	-12.94/-16.78	-17.83/-17.19	-14.16/-9.98	-8.44/-8.93	-12.79/-17.8	-16.67/-11.73	-11.83/-11.33	-12.55/-13.07	-15.19/-18.3	-15.62/-13.21	-15.25/-17.84
Θ(172.5°)	-10.61/-13.92	-17.83/-19.09	-18.25/-17.96	-18.17/-14.78	-12.55/-11.94	-11.77/-13.09	-13.68/-11.37	-10.07/-10.53	-11.98/-14.22	-17.09/-18.74	-18.91/-17.24	-15.82/-15.22	-14.79/-13.74	-12.47/-12	-12.18/-12.18	-10.77/-9.64	-9.89/-11.76	-15.56/-14.24	-11.41/-9.43	-9.62/-12.04	-12.42/-14.71	-14.92/-13.51	-11.42/-9.04	-8.23/-9.02
Θ(180°)	-9.06/-8.29	-7.87/-7.7	-7.88/-7.64	-7.17/-7.06	-7.56/-9	-10.35/-11.07	-10.83/-11.34	-12.46/-13.33	-13.84/-13.74	-14.22/-15.43	-17.3/-17.92	-14/-10.94	-9.75/-9.55	-9.98/-11.39	-12.43/-12.55	-12.28/-11.88	-11.78/-12.96	-14.69/-16.88	-18.16/-19.16	-18.86/-18.28	-18.92/-19.26	-16.74/-14.15	-12.37/-11.57	-10.96/-9.85
Freq(Hz)	6.475GPol.	PhiAnt.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-6.33/-6.39	-6.56/-7.07	-7.82/-9.56	-11.12/-12.93	-13.79/-13.68	-13.12/-11.72	-10.46/-8.41	-7.02/-5.71	-3.52/-3.6	-3.81/-4.74	-3.52/-3.6	-6.44/-5.64	-6.64/-7.81	-15.51/-12.62	-10.69/-9.22	-8/-6.81	-18/-18.7	-10.69/-9.22	-8/-6.81	-5.27/-5.56	-6.18/-6.68	-6.56/-6.16		
Θ(7.5°)	-7.09/-8.21	-9.5/-10.08	-12.13/-17.32	-19.14/-18.99	-18.65/-17.29	-14.94/-12.6	-10.66/-9.15	-8/-7.21	-6.63/-6.13	-5.81/-5.82	-6.14/-6.18	-6.42/-6.37	-6.85/-7.73	-8.85/-9.41	-10.63/-11.95	-13.32/-15.38	-17.85/-17.46	-18.38/-13.89	-11.17/-9.98	-7.8/-6.7	-5.48/-4.9	-4.67/-5.43	-5.98/-6.74	-6.7/-6.37
Θ(15°)	-11.12/-13.97	-13.94/-11.85	-11.1/-10.79	-10.62/-11.53	-12.89/-13.98	-17.28/-17.12	-13.49/-10.98	-8.34/-7.06	-6.27/-5.28	-5.03/-5.57	-6.42/-7.48	-8.86/-10.07	-11.39/-12.46	-14.22/-14.48	-15.44/-14.55	-14.04/-15.33	-18.17/-16.64	-11.25/-6.47	-7.45/-6.76</					



Radiated Composite Gain Data_6G (4TX)

Appendix E

Θ(7.5°)	-18.81-15.7	-11.12-9.31	-8.41-7.41	-6.67-6.04	-5.81-5.42	-5.58-5.57	-5.71-5.9	-6.69-7.19	-7.92-9.79	-11.68-14.81	-17.99-17.7	-19.23-18.74	-16.68-14.61	-13.03-12.21	-11.46-11.13	-10.82-11.36	-11.51-11.48	-10.63-10.22	-9.93-9.8	-10.51-10.1	-10.41-11.24	-11.83-13.4	-16.21-19.22	-19.43-17.96	
Θ(15°)	-16.34-11.94	-9.08-8.31	-8.02-6.75	-8.47-10.64	-14.07-18.77	-19.07-17.48	-17.73-17.48	-19.08-18.26	-17.87-16.68	-13.67-10.28	-7.74-6.33	-5.32-4.94	-5.01-5.21	-5.61-6.21	-6.32-6.51	-7.42-7.9	-7.63-7	-6.47-6.59	-7.93-9.35	-11.16-12.51	-11.47-9.79	-9.56-11.52	-15.61-17.62	-18.11-18.57	
Θ(22.5°)	-15.42-9.95	-13.49-18.01	-13.49-12.54	-17.01-8.88	-4.07-2.57	-2.97-1.02	-5.19-16.16	-8.28-10.65	-12.91-12.31	-12.75-10.09	-9.16-8.83	-8.58-5.35	-8.41-8.12	-9.94-10.49	-7.91-7.05	-7.18-8.43	-8.05-6.38	-4.75-3.82	-3.86-1.46	-6.11-6.31	-5.21-4.2	-3.82-3.99	-4.91-6.73	-9.83-10.98	
Θ(30°)	-6.46-6.66	-6.72-8.45	-9.46-10.57	-10.34-3.81	-0.85-0.55	-2.02-3.95	-4.99-5.41	-5.99-6.43	-6.73-6.64	-7.54-8.63	-8.95-7.77	-7.21-9.41	-9.85-8.66	-9.74-16.05	-16.04-11.11	-7.52-7.12	-8.56-8.93	-8.46-8.75	-7.29-5.3	-2.89-1.23	0.190.98	0.42-1.74	-2.91-1.87	-21-3.83	
Θ(37.5°)	-6.32-6.56	-2.75-0.12	0.49-1.36	-2.24-2.03	-3.37-7.21	-11.21-10.26	-8.83-5.58	-4.18-2.65	-1.85-1.63	-2.44-2.71	-1.71-0.88	-1.27-1.41	-5.71-1.46	-4.72-3.02	-2.51-3.15	-2.47-2.14	-4.23-5.7	-7.84-9.65	-6.96-4.38	-3.14-2.67	-1.560.69	1.91-1.77	1.54-1.2	0.63-1.02	
Θ(45°)	-3.36-6.45	-5.27-0.24	3.26-2.47	1.08-0.3	-3.67-8.7	-6.69-4.6	-3.47-1.02	0.790-46	-0.56-0.48	-1.49-3.2	-1.98-2.63	-3.4-4.66	-3.54-1.06	-4.19-2.27	-2.38-1.31	0.1-0.97	0.78-0.01	-2.28-3.89	-3.51-1.35	-0.110.29	0.870.94	0.07-0.1	1.48-1.72	-0.05-1.86	
Θ(52.5°)	-1.76-6.18	-8.17-3.86	1.62-1.77	-0.18-1.53	-2.34-2.24	-2.06-2.18	-1.890.82	2.230.96	-0.89-1.11	-2.43-6.23	-5.91-6.57	-6.66-4.62	-4.49-6.1	-7.77-2.3	-1.490.68	1.05-1.02	0.50-7	-2.25-5.78	-5.38-1.38	0.880.68	1.79-2.16	1.21-0.26	1.020.08	-1.07-1.9	
Θ(60°)	-0.21-3.68	-6.38-6.28	-0.89-1.35	-0.660.03	-0.48-3.17	-5.31-5.54	-3.53-1.54	-0.21-0.4	-1.220.04	-0.09-2.53	-2.34-0.48	0.47-1.03	-0.89-4.34	-4.870-0.7	1.22-2.52	1.35-1.74	0.960.08	-4.65-9.85	-8.29-3.72	0.41-1.15	1.64-2.25	1.750-7.2	2.78-1.59	1.68-1	
Θ(67.5°)	0.12-0.77	-0.22-3.96	-1.56-2.3	1.03-2.85	0.71-2.65	-9.71-12.76	-3.04-1.52	-0.720.91	1.41-7.1	1.35-0.88	0.67-2.68	3.07-1.23	0.53-0.59	-0.85-1.41	2.15-2.47	1.53-1.9	1.26-1.84	-5.08-8.8	-7.21-3.46	1.41-3.1	2.53-2.37	2.620.49	3.97-2.27	3.18-2.34	
Θ(75°)	-0.52-1.44	2.09-0.21	-0.98-2.2	2.21-3.69	1.61-0.56	-7.13-7.89	-1.380-45	0.28-1.4	3.39-0.85	1.44-0.71	2.62-3.78	3.63-2.81	1.29-1.36	0.37-0.52	2.02-2.34	0.82-3.8	2.39-0.15	-2.62-4.45	-1.54-1.53	3.52-4.82	3.06-2.37	2.42-0.18	3.47-1.31	3.22-2.6	
Θ(82.5°)	-3.18-4.18	1.94-0.8	-2.89-0.15	2.48-2.74	2.07-2.72	-6.88-8.13	-3.51-0.89	0.88-2.04	3.74-0.09	0.74-0.33	2.73-2.25	2.51-2.08	1.18-1.4	0.41-0.23	1.92-0.87	-0.73-2.44	2.90-1.45	-0.21-3.44	-0.33-1.48	3.74-7.9	2.110-99	0.63-1.39	1.47-1.15	1.92-1.71	
Θ(90°)	-5.88-8.61	0.52-1.08	-4.49-1.96	1.68-0.99	0.57-1.45	-4.83-4.86	-1.3-6.51	0.980-49	0.04-0.18	0.080-57	1.53-1.97	0.66-3.33	0.870-44	0.15-2.7	1.11-0.23	-3.75-1.95	2.02-1	0.48-3.88	-0.93-4.83	2.55-6.65	1.9-0.75	-3.33-4.54	-0.5-3.56	-0.18-0.31	
Θ(97.5°)	-6.84-7.41	-0.98-0.29	-5.18-4.01	0.31-2.43	-1.17-1.71	-6.04-9.26	-7.01-11.43	-1.16-1.81	1.56-0.89	0.52-1.06	0.710-19	-2.06-2.0	0.47-0.6	-1.5-4.42	-0.53-2.38	-5.74-0.82	-0.570.66	-0.53-4.89	-2.45-7.7	0.44-1.19	0.66-6.19	-11.03-7.6	-3.08-4.69	-2.24-1.98	
Θ(105°)	-6.46-6.68	-3.31-0.86	-3.44-5.1	-2.02-4.49	-3.04-6.73	-6.82-6.69	-6.34-14.92	-4.78-6.61	-2.14-1.78	-1.05-0.28	-0.51-3.55	-5.12-1.88	-1.32-1.82	-4.09-4.79	-1.95-7.05	-3.93-1.91	-6.49-3.01	-2.71-8.42	-8.43-6.31	-8.82-4.09	-3.03-10.3	-8.43-6.31	-4.74-5.57	-7.02-5.62	
Θ(112.5°)	-8.33-7.57	-7.61-14.2	-3.24-5.71	-8.21-5.05	-7.82-7.56	-14.13-9.06	-8.21-10.7	-7.91-7.69	-14.78-11	-7.68-5.29	-6.57-13.41	-4.1-9.02	-2.45-1.7	-4.48-3.85	-3.42-3.49	-5.12-4.82	-6.95-2.08	-3.34-11.22	-6.56-8.78	-10.72-6.26	-6.36-9.79	-8.84-3.29	-3.96-3.86	-10.19-17.15	
Θ(120°)	-9.26-8.59	-7.05-9.14	-5.72-8.69	-5.49-4.07	-5.77-14.96	-13.72-11.45	-8.54-7.19	-2.55-3.35	-3.88-4.41	-5.99-8.81	-10.36-7.26	-2.85-1.3	-2.69-7.47	-6.54-5.05	-7.38-5.3	-7.54-15.54	-6.1-6.48	-2.3-14.43	-7.71-15.89	-11.41-4.73	-4.88-7.16	-15.14-6.98	-5.41-5.43	-9.65-10.47	
Θ(127.5°)	-15.1-9.27	-5.05-5.55	-8.74-9.5	-8.33-3.58	-5.17-11.67	-18.41-17.87	-18.66-18.99	-9.84-5.43	-2.43-0.27	-2.07-5	-5.28-3.42	-8.41-3.06	-6.1-8.47	-7.4-9.32	-7.97-10.71	-10.67-14.48	-5.1-8.52	-2.89-12.3	-8.41-14.6	-5.29-8.86	-6.65-14.92	-17.37-5.29	-5.59-12.27	-11.91-17.36	
Θ(135°)	-17.15-11.4	-7.77-11.59	-9.57-9.14	-7.52-10.45	-7.52-10.45	-10.23-18.94	-7.72-7.52	-8.12-6.71	-11.59-18.32	-17.82-9.97	-8.96-6.48	-12.27-8.27	-8.63-13.08	-11.86-15.37	-10.43-14.91	-5.67-6.5	-2.16-11.93	-7.31-6.79	-15.55-13.01	-6.88-7	-10.18-10.88	-2.53-5.12	-8.83-18.53		
Θ(142.5°)	-13.12-9.32	-7.55-7.08	-11.53-10.48	-8.55-9.1	-13.66-11.98	-15.42-17.7	-18.37-18.53	-15.69-6.69	-4.84-8.24	-11.23-8.23	-6.55-7.06	-7.23-6.82	-7.28-17.43	-17.58-11.86	-18.86-18.8	-7.03-18.19	-16.24-7.63	-7.48-13.98	-14.38-11.87	-19.29-13.9	-7.18-8.13	-12.91-12.79	-5.63-7.04	-17.2-17.94	
Θ(150°)	-17.43-12.51	-15.01-14.77	-9.81-10.46	-18.56-11.55	-7.84-5.99	-14.98-18.91	-17.98-9.17	-5.98-6.98	-9.81-11.81	-14.82-17.97	-17.43-11.05	-10.38-9.43	-12.62-16.25	-15.88-12.74	-10.81-10.7	-61-1.64	-18.91-9.72	-9.58-18.56	-17.97-19.08	-16.29-18.84	-11.35-16.35	-11.48-4.58	-4.19-9.19	-13.07-16.69	
Θ(157.5°)	-12.44-17.81	-12.35-10.42	-8.97-8.52	-8.59-11.94	-17.45-17.97	-15.9-12.5	-11.12-10.15	-10.18-11.21	-12.49-17.77	-14.02-10.19	-11.61-16.98	-16.52-13.72	-14.08-19.21	-10.48-6.81	-5.25-5.39	-6.33-9.84	-18.55-13.3	-13.62-18.94	-17.46-17.81	-19.4-19.19	-19.17-18.86	-11.7-9.08	-8.37-8.27	-7.56-8.08	
Θ(165°)	-17.28-14.91	-12.92-14.12	-17.39-17.76	-13.15-10.63	-8.98-8.37	-10.28-14.8	-18.25-17.75	-13.91-12.13	-12.03-11.89	-12.83-18.14	-18.13-18.2	-14.71-13.1	-14.09-12.08	-8.41-7.34	-9.09-14.2	-18.81-15.05	-10.86-10.28	-13.21-17.66	-18.3-12.9	-12.92-13.14	-15.63-17.75	-18.02-13.2	-13.63-14.04	-13.72-16.62	
Θ(172.5°)	-13.95-16.19	-17.42-16.86	-17.25-17.24	-17.31-15.04	-14.45-13.72	-14.75-18.78	-17.43-17.91	-15.41-16.17	-16.64-17.76	-18.8-19.17	-15.82-12.77	-11.52-10.73	-9.98-9.03	-5.58-9.09	-11.33-14.26	-18.82-18.45	-16.72-15.55	-16.18-18.83	-19.08-17.7	-15.95-15.63	-17.34-18.08	-19.71-18.72	-15.37-11.57	-11.19-13.25	
Θ(180°)	-9.79-9.47	-10.58-10.81	-10.69-10.73	-10.72-11.75	-12.78-14.16	-16.8-16.92	-17.82-17.81	-17.63-17.3	-15.32-15.01	-15.45-18.07	-18.03-17.56	-18.21-18.55	-17.85-18.18	-18.59-17.05	-18.31-16.63	-15.26-15.3	-18.25-19.03	-18.47-18.22	-18.03-18.47	-17.86-17.81	-18.71-14.96	-13.38-12.96	-11.27-9.97		
Freq(Hz)	6.995GHz	PhiAnt. 3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ(0°)	-6.84-7.67	-8.59-10.89	-11.71-12.22	-13.73-15.1	-13.72-14.68	-13.73-15.1	-14.68-15.72	-16.23-11.55	-5.27-1.05	-6.56-7.05	-5.45-5.89	-6.36-7.43	-6.1-7.34	-8.84-9.97	-10.75-11.81	-11.61-12.01	-12.82-14.09	-15.22-17.48	-17.63-18.59	-17.24-16	-16.43-13.55	-12.18-10.55	-8.72-7.42	-6.35-6.08	-4.95-4.62
Θ(7.5°)	-5.02-5.33	-6.01-8.3	-9.55-12.23	-16.05-19.21	-18.67-18.01	-15.61-11.67	-9.56-7.91	-6.52-5.67	-4.67-1.49	-4.16-4.21	-4.41-5.37	-6.11-7.34	-8.84-9.97	-10.75-11.81	-11.61-12.01	-12.82-14.09	-15.22-17.48	-17.63-18.59	-17.24-16	-16.43-13.55	-12.18-10.55	-8.72-7.42	-6.35-6.08	-4.95-4.62	
Θ(15°)	-3.7-5.15	-7.12-14.09	-11.49-10.47	-16.37-18.87	-18.16-18.73	-18.26-19.34	-18.66-14.84	-10.64-7.41	-5.44-5.49	-4.38-0.48	-4.47-5.21	-6.17-7.64	-9.81-12.42	-16.76-18.38	-16.35-12.05	-10.61-11.05	-11.62-11.59	-12.07-12.42	-15.34-17.37	-17.52-14.51	-11.43-9.96	-9-1.74	-6.28-4.99	-3.58-3.19	
Θ(22.5°)	-5.47-8.09	-13.15-15.1	-13.33-10.08	-8.46-10.06	-18.84-15.06	-10.89-11.43	-14.51-18.18	-18.85-11.27	-9.68-10.05	-10.58-9.46	-8.04-7.26	-7.17-9.38	-13.92-19.4	-18.81-18.55	-17.71-18.33	-15.89-15.4	-15.18-11.4	-8.39-8.91	-11.09-13.06	-11.48-8.62	-8.49-9.14	-10.01-9.29	-8.08-7.21	-6.09-5.19	
Θ(30°)	-10.44-13.52	-18.16-16.25	-14.13-8.17	-3.43-5.24	-18.93-10.03	-8.3-14.11	-17.39-13.95	-9.56-6.85	-7.43-10.29	-13.63-11.83	-8.95-10.68	-6.35-17.32	-17.38-13.18	-13.34-11.5	-12.03-12.12	-17.81-18.45	-14.29-11.8	-13.98-18.4	-18.23-18.71	-14.48-10.38	-9.72-12	-13.27-11.19	-8.67-7.66	-18.07-9.26	
Θ(37.5°)	-14.73-9.83	-12.01-17.15	-13-18.48	-8.51-9.1	-16.65-11.04	-14.61-18.95	-17.34-12.34	-8.03-5.62	-6.2-8.27	-9.25-8.78	-9.53-11.2	-14.19-15.51	-18.09-17.93	-10.46-13.28	-15.74-11.82	-17.54-10.07	-12.13-13.17	-14.08-17.75	-12.87-18.05	-17.47-13.21	-14.47-17.24	-17.1-10.13	-6.28-6.47	-8.81-15.49	
Θ(45°)	-13.96-10.14	-8.57-16.99	-12.01-11.78	-12.78-14.59	-12.75-12.25	-11.97-16.33	-16.81-12.08	-9.58-7.67	-6.53-8.25	-12.07-15.07	-11.59-12.27	-16.62-17.94	-15.34-10.09	-17.16-12.84	-17.09-7.84	-17.24-10.8	-15.32-18.39	-13.49-13.26	-18.74-15.42	-14.66-16.01	-13.47-10.62	-6.11-3.36	-5.38-11.61		
Θ(52.5°)	-17.88-11.95	-9.86-11.31	-19.15-18.13	-15.96-13.28	-15.49-18.66	-8.72-14.28	-13.57-16.49	-10.14-12.75	-10.75-12.92	-7.91-9.46	-14.15-18.97	-18.93-18.33	-17.75-12.73	-10.21-18.26	-16.92-14.28	-18.3-8.68	-18.54-14.19	-18.15-18.96	-15.78-18.7	-17.94-19.09	-16.49-15.58	-7.78-7			



Radiated Composite Gain Data_6G (4TX)

Appendix E

Θ(60°)	0.671/56	0.88/-1.08	0.72/58	2.72/52	2.23/1.69	1.15/-0.19	-0.24/1.15	1.76/2.22	1.13/-0.37	-0.67/1.36	3.12/77	0.26/-0.31	1.87/1.88	0.08/1	1.68/0.85	1.44/-1.82	2.81/3.26	2.41/53	1.33/0.77	0.08/-4.03	-5.54/-2.7	-2.21/-3.27	-1.57/0.35	0.37/0.82
Θ(67.5°)	0.13/-0.17	-0.1/-1.64	1.67/3.87	3.06/4.82	4.32/2.71	2.46/-1.64	1.22/2.2	3.52/0.41	3.09/2.26	1.56/2.25	3.97/4.16	3.23/1.9	3.23/3.89	2.76/1.27	0.82/0.11	0.97/2.26	3.61/3.94	2.67/1.26	0.30/4.9	0.2/-4.1	-3.9/-3	-1.73/-1.26	1.23/-6.19	1.81/-1.95
Θ(75°)	-0.24/-1.51	-0.31/-1.84	13/14	3.92/4.37	5.79/3.25	2.12/0.83	0.27/2.05	3.73/2.75	2.43/11	2.73/1.53	2.98/4.53	3.33/2.17	1.91/2.74	3.19/1.31	-0.35/-1.3	0.48/2.14	2.92/4.11	3.25/0.09	-0.49/1.4	-0.01/-2.88	-5.05/-5.65	-0.91/-1.49	1.04/0.89	0.41/-2.1
Θ(82.5°)	0.14/-1.85	-2.15/-2.93	0.54/1.51	1.41/3.37	5.53/2.96	0.22/-2.18	-1.44/0.11	1.91/0.28	0.44/2.83	1.82/0.18	2.48/3.99	3.04/0.45	-0.62/0.17	1.62/0.58	-2.69/-2.6	-1.02/0.76	2.88/3.76	4.19/2.08	-0.84/2.12	-0.17/-1.07	-5.55/-9.25	-4.53/-1.85	-0.82/-1.22	-2.7/-0.53
Θ(90°)	-1.18/-2.79	-3.63/-5.19	-0.79/-0.4	-0.41/-1.28	4.08/2.17	-0.44/-0.83	-3.39/-1.66	-2.04/-1.34	-3.21/0.3	0.94/-1.31	0.92/2.85	2.56/-0.02	-2.73/-5.17	-1.38/0.47	-3.02/-3.85	-2.41/-1.3	1.16/2.39	4.16/2.31	-0.21/-1.32	-0.21/0.11	-9.62/-8.36	-4.48/-4.91	-4.63/-3.1	-3.53/-2.42
Θ(97.5°)	-6.2/-5.15	-4.19/-0.71	-2.55/-2.23	-1.91/-0.71	1.72/-0.46	-9.61/-9.51	-4.25/-1.97	-4.9/-3.62	-4.43/-1.07	-0.12/-2.06	-0.83/1.05	1.16/-1.2	-4.35/-6.26	-5.72/0.64	-2.66/-4.71	-3.85/-5.1	-3.25/0.52	2.66/-1.41	0.42/-1.17	-0.98/-2.68	-1.62/0.49	-4.68/-4.78	-8.05/-4.32	-2.53/-4.7
Θ(105°)	-14.55/-8.55	-6.26/-7.96	-5.62/-4.12	-2.12/-1.51	-0.49/-2.71	-14.86/-17.35	-11.85/-4.61	-2.86/-4.28	-3.11/-3.1	-1.25/-0.76	-3.71/-2.66	0.19/-1.51	-5.08/-7.34	-6.01/-0.82	-2.31/-6.09	-3.9/-10.76	-7.42/-2.41	-2.28/-4.33	-2.17/-5.32	-2.19/-11.88	-7.73/-5.51	-6.43/-18.11	-12.04/-4.42	-2.55/-10.18
Θ(112.5°)	-19.21/-10.12	-6.7/-8.14	-8.99/-7.17	-4.01/-1.62	-1.92/-5.72	-16.48/-19	-12.36/-4.28	-1.68/-7	-3.64/-4.28	-4.28/-2.54	-4.46/-4.65	-2.65/-4.88	-10.26/-9.52	-4.24/-1.61	-4.97/-6.61	-3.49/-4.15	-5.55/-9.02	-2.58/-3.95	-4.08/-5.62	-4.81/-14.39	-3.92/-7.27	-12.08/-8.21	-14.27/-2.69	-6.04/-14.5
Θ(120°)	-10.97/-5.16	-5.32/-10.62	-15.16/-11.23	-8.89/-2.59	-5.11/-9.47	-15.12/-11.68	-12.2/-6.54	-4.11/-8.76	-10.78/-2.28	-4.84/-11.04	-7.37/-5.42	-3.23/-6.89	-10.9/-12.99	-8.07/-4.33	-16.76/-6.34	-5.89/-5.23	-18.13/-6.29	-4.4/-4.43	-7.73/-4.43	-4.68/-7.48	-13.71/-16.66	-14.37/-4	-1.199/-5.68	-14.12/-11.97
Θ(127.5°)	-6.01/-4.43	-6.28/-9.9	-13.74/-9.69	-11.55/-4.27	-5.02/-14.92	-17.87/-10.18	-11.17/-17.49	-11.03/-9.95	-11.98/-7.58	-2.28/-5.22	-11.17/-8.18	-4.13/-5.9	-8.61/-11.44	-10.55/-6.65	-4.84/-6.16	-16.49/-11.49	-13.3/-13.57	-9.06/-7.02	-7.54/-7.24	-3.52/-8.2	-12.69/-8.44	-7.4/-5.57	-14.44/-10.29	-13.57/-11.53
Θ(135°)	-6.19/-9.41	-6.15/-6.46	-11.19/-11.1	-9.43/-7.58	-4.97/-7.26	-12.2/-14.19	-9.75/-15.39	-11.44/-3.08	-1.74/-6.72	-8.63/-4.6	-3.65/-8.57	-15.72/-13.12	-15.24/-13.63	-8.87/-8.56	-9.5/-4.99	-4.18/-10.22	-11.89/-11.87	-11.72/-12.01	-10.91/-12.84	-6.96/-18.17	-7.4/-6.53	-7.3/-9.68	-17.97/-14.98	-8.26/-5.66
Θ(142.5°)	-5.31/-6.92	-6.18/-7.11	-13.07/-16.23	-11.17/-15.34	-12.93/-11.27	-7.63/-11.14	-17.87/-10.02	-4.6/-4.3	-8.71/-16.03	-12.65/-8.35	-6.36/-10.46	-8.97/-11.93	-7.11/-11.33	-7.91/-17.88	-18.08/-10.55	-18.05/-14.19	-8.16/-5.31	-10.03/-15.85	-9.08/-9.83	-18.09/-18.46	-15.24/-15.54	-8.48/-5.33		
Θ(150°)	-6.82/-10.63	-9.57/-9.43	-15.3/-18.01	-10.15/-9.49	-9.67/-10.97	-15.1/-9.9	-8.01/-10.55	-7.63/-7.02	-13.68/-13.75	-8.88/-6.28	-5.37/-8.92	-11.67/-13.14	-12.26/-9.29	-9.09/-12.09	-17.74/-14.63	-13.48/-15.7	-15.72/-18.34	-18.41/-18.01	-13.59/-14.23	-17.71/-17.25	-19.15/-13.64	-13.98/-11.51	-17.91/-11.35	-6.73/-4.87
Θ(157.5°)	-8.67/-10.33	-16.47/-18.66	-18.25/-17.92	-18.02/-19.09	-17.21/-12.33	-14.04/-17.5	-19.28/-13.81	-7.25/-5.01	-5.33/-6.02	-6.99/-9.12	-10.33/-11.08	-13.47/-12.37	-10.9/-13.97	-12.45/-14.12	-14.61/-10.31	-14.26/-16.99	-18.58/-15.7	-16.85/-18.7	-16.04/-15.4	-18.05/-15.22	-13.49/-14.1	-12.98/-12.97	-10.29/-8.16	
Θ(165°)	-13.88/-15.62	-17.58/-18.64	-18.68/-15.05	-11.08/-9.17	-8.17/-8.33	-10.02/-13.36	-17.41/-18.91	-18.84/-17.49	-13.44/-8.59	-6.25/-5.8	-7.12/-8.78	-11.93/-19.08	-18.4/-15.12	-12.9/-6	-7.7/-6.79	-8.46/-15.17	-17.56/-15.39	-15.14/-18.57	-17.98/-18.21	-17.95/-12.78	-13.01/-14.3	-17.79/-18.46	-18.34/-18.25	-14.81/-13.1
Θ(172.5°)	-18.76/-18.23	-17.57/-15.11	-12.7/-10.41	-10.36/-11.52	-12.54/-13.58	-10.66/-9.54	-10.22/-12.11	-13.59/-13.01	-11.54/-10.58	-9.73/-8.8	-8.24/-8.81	-10.41/-12	-13.7/-16.06	-17.95/-18.17	-19.26/-18.83	-16.64/-15.9	-14.84/-14.37	-14.27/-12.82	-10.76/-10.13	-12.36/-14.33	-16.29/-16.79	-15.91/-15.69	-17.17/-17.9	-19.14/-18.79
Θ(180°)	-12.66/-13.2	-12.41/-14.19	-15.99/-18.34	-18.31/-15.27	-12.62/-12.57	-11.66/-10.52	-10.03/-9.43	-8.78/-8.39	-8.27/-8.79	-9.65/-11.29	-12.75/-13.3	-14.33/-15.2	-14.46/-15.21	-17.67/-16.42	-15.16/-15.44	-16.5/-18.92	-17.89/-18.76	-17.89/-17.94	-15.52/-12.85	-11.54/-10.25	-9.22/-7.89	-7.93/-8.58	-10.75/-12.94	-13.38/-12.42
Freq(Hz)	6.4755GPol.	Phi/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°)	-8.48/-8.64	-8.71/-8.77	-8.35/-7.6	-7.36/-7.31	-7.22/-7.17	-6.87/-8.1	-7.05/-7.7	-8.16/-8.66	-9.67/-11.1	-11.45/-11.85	-11.82/-12.32	-12.16/-11	-10.27/-9.96	-9.94/-6.98	-9.09/-8.8	-8.14/-7.34	-6.29/-6.89	-8.62/-9.5	-9.55/-9.47	-10.82/-11.87	-11.09/-9.81	-8.4/-8.17	-9.35/-8.82	-8.07/-8.12
Θ(7.5°)	-13.07/-11.39	-9.56/-8.41	-7.62/-6.92	-7.17/-4.66	-7.53/-7.53	-7.93/-9.81	-10.71/-11.1	-10.98/-10.71	-9.2/-8.5	-7.97/-8.9	-7.33/-6.2	-5.99/-6.25	-6.86/-7.56	-6.89/-9.02	-9.09/-8.81	-8.99/-7.16	-5.89/-5.27	-5.96/-6.65	-6.72/-6.99	-7.34/-5.97	-12.62/-13.51	-13.95/-16.27	-18.82/-16.92	-14.51/-13.06
Θ(15°)	-11.6/-9.27	-7.78/-6.99	-6.96/-7.66	-7.44/-6.97	-6.6/-7.18	-9.53/-13.64	-19.53/-18.82	-13.55/-12.05	-11.7/-12.03	-13.65/-18.52	-15.01/-10.33	-9.02/-8.17	-7.37/-7.77	-8.18/-7.78	-7.94/-7.88	-8.93/-10.77	-9.75/-7.7	-5.56/-5.25	-5.14/-6.34	-7.7/-10.36	-17.48/-18.44	-14.48/-13.01	-12.96/-11.83	-11.35/-11.09
Θ(22.5°)	-4.82/-3.33	-3.27/-3.54	-5.59/-10.7	-17.62/-16.6	-12.75/-8.11	-7.34/-8.43	-15.22/-19.7	-7.49/-6.31	-8.9/-13.86	-16.1/-18.01	-17.82/-15.76	-13.28/-16.63	-9.63/-18.89	-12.09/-10.56	-8.11/-6.58	-6.92/-10.46	-16.91/-12.92	-6.43/-13.3	-2.46/-3.59	-7.1/-13.53	-17.5/-14.89	-8.52/-6.51	-6.42/-8.1	-6.95/-9.42
Θ(30°)	-3.81/-5.12	-7.47/-4.84	-9.43/-14.85	-18.33/-18.81	-17.46/-14.37	-9.66/-10.24	-12.32/-7.26	-5.22/-6.57	-11.16/-14.74	-18.46/-13.21	-8.68/-14.1	-12.15/-9.42	-8.75/-10.69	-14.71/-15.47	-12.54/-9.5	-3.88/-11.68	-11.76/-14.54	-10.63/-4.44	-2.52/-3.55	-7.99/-14.91	-16.13/-18.33	-7.87/-3.44	-3.71/-7.26	-12.44/-6.57
Θ(37.5°)	-9.87/-11.13	-15.98/-18.03	-10.8/-8.92	-16.69/-18.04	-16.05/-15.38	-16.48/-15.63	-11.79/-8.56	-8.08/-12.1	-19.1/-16.82	-15.56/-6.61	-3.81/-6.9	-8.35/-4.75	-4.47/-7.19	-9.83/-11.86	-12.56/-14.63	-12.16/-17.48	-16.5/-10.99	-11.21/-11.66	-10.48/-10.35	-14.74/-19.11	-18.93/-17.95	-8.98/-4.84	-9.85/-12.43	-12.32/-13.21
Θ(45°)	-16.89/-17.46	-18.88/-18.74	-11.1/-17.93	-13.12/-15.27	-8.97/-8.85	-10.79/-10.7	-11.77/-10.48	-11.32/-17.12	-18.55/-18.84	-9.85/-4.09	-5.27/-5.66	-7.57/-7.12	-6.32/-10.44	-9.78/-10.6	-11.87/-18.9	-17.46/-14.66	-10.6/-18.51	-14.49/-15.41	-11.4/-10.58	-14.03/-6.69	-18.05/-18.71	-10.58/-11.68	-16.65/-11.62	-14.77/-18.81
Θ(52.5°)	-16.69/-10.84	-13.21/-7.85	-17.52/-11.96	-19.21/-10.64	-5.27/-7.47	-14.06/-11.05	-10.64/-11.87	-11.22/-10.87	-16.36/-16.62	-7.28/-7.23	-6.17/-7.56	-7.84/-14.34	-18.23/-14.03	-15.9/-11.21	-15.32/-11.86	-10.84/-15.23	-5.89/-7.98	-10.22/-14.67	-15.32/-11.81	-18.41/-17.76	-19.24/-14.26	-18.38/-11.28	-14.17/-17.81	
Θ(60°)	-15.83/-10.28	-10.38/-17.02	-17.39/-9.66	-13.21/-14.46	-5.66/-8.5	-15.4/-11.52	-8.38/-18.69	-15.02/-15.26	-18.94/-11.08	-9.44/-7.61	-18.54/-10.98	-7.08/-11.19	-10.13/-13.61	-16.02/-15.19	-14.16/-18.39	-12.39/-8.57	-8.26/-17.58	-5.49/-7.24	-18.17/-15.52	-12.6/-15.76	-18.32/-17.19	-18.98/-11.2	-14.41/-18.09	-17.5/-16.28
Θ(67.5°)	-16.3/-10.34	-15.13/-19.35	-11.51/-5.77	-8.89/-18.01	-7.53/-9.1	-18.28/-17.73	-9.95/-19.33	-13.23/-18.35	-12.25/-10.95	-10.25/-9.6	-17.97/-11.71	-9.87/-13.23	-16.23/-17.52	-11.48/-12.42	-11.53/-16.74	-9.81/-8.39	-8.75/-18.93	-8.21/-5.78	-12.48/-18.57	-12.85/-18.49	-18.47/-19.34	-17.38/-7.17	-9.17/-18.8	-12.36/-11.28
Θ(75°)	-14.05/-14.06	-16.74/-18.25	-10.21/-6.2	-7.21/-14.27	-8.23/-8.66	-18.57/-17.68	-12.39/-19.33	-11.39/-17.59	-11.07/-10	-9.95/-8.94	-14.51/-10.11	-12.16/-17.78	-18.08/-13.82	-12.48/-10.17	-11.09/-17.19	-12.27/-7.78	-9.2/-17.84	-11.55/-5.34	-9.9/-9.18	-11.19/-18.13	-19.01/-13.37	-16.27/-4.79	-10.42/-18.15	-11.56/-14.21
Θ(82.5°)	-17.5/-18.4	-18.41/-17.46	-14.3/-7.48	-17.8/-12.38	-8.64/-10.66	-19.22/-18.13	-15.87/-13.69	-11.08/-17.31	-10.88/-13.92	-10.35/-12.42	-12.85/-10.53	-13.67/-18.26	-16.74/-18.93	-13.19/-15.9	-12.32/-16.43	-9.29/-7.83	-13.45/-18.29	-14.8/-8.28	-9.7/-12.11	-10.66/-17.42	-16.27/-15.42	-13.47/-6.67	-13.77/-17.75	-12.95/-17.88
Θ(90°)	-17.41/-19.03	-18.23/-18.12	-18.28/-9.67	-10.53/-15.48	-10.25/-13.71	-17.94/-12.27	-16.15/-15.71	-11.19/-17.57	-13.25/-11.75	-13.1/-14.69	-13.92/-11.11	-17.83/-18.15	-12.72/-10.72	-15.18/-16.19	-16.81/-18	-14.81/-8.49	-11.02/-18.76	-13.02/-18.48	-9.54/-9.46	-10.85/-17.92	-12.72/-14.45	-19.19/-9.8	-15.72/-15.26	-19.01/-19.29
Θ(97.5°)	-17.8/-18.27	-17.29/-17.23	-14.54/-11.8	-13.73/-17.48	-14.7/-16.19	-18.63/-11.22	-17.06/-18.76	-9.13/-17.37	-14.86/-12.5	-15.52/-15.89	-16.37/-10.87	-15.2/-18.97	-14.25/-16.6	-14.64/-18.07	-17.82/-17.73	-14.51/-13.12	-12.43/-14.13	-17.94/-14.8	-11.19/-7.06	-13.92/-18.79	-16.32/-16.68	-17.93/-11.73	-18.57/-12.17	-18.8/-17.85
Θ(105°)	-16.86/-18.54	-19.22/-17.83	-15.05/-12.67	-17.75/-18.15	-18.49/-17.77	-15.2/-14.77	-16.35/-17.88	-12.58/-17.42	-14.21/-12.7	-16.5/-14.81	-19.15/-12.91	-17.59/-15.38	-13.77/-18.31											



Radiated Composite Gain Data_6G (4TX)

Appendix E

Θ(112.5°)	-17.08/-8.23	-14.97/-11.62	-5.39/-3.14	-3.37/-4.14	-4.99/-6.05	-11.88/-19.79	-5.15/-3.68	-2.69/-2.3	-2.31/-11.62	-11.48/-6.26	-3.43/-1.47	0.25/-1.5	-5.49/-5.59	-10.4/-3.99	-4.48/-9.5	-5.91/-14.03	-5.14/-6.15	-3.3/-4.01	-6.54/-10.32	-10.45/-16.76	-17.15/-8.19	-8/-5.3	-5/-7.84	-4.05/-8.09
Θ(120°)	-18.72/-11.32	-12.51/-9.86	-8.19/-7.46	-4.42/-3.47	-7.41/-10.45	-9.49/-13.34	-12.96/-11.94	-13.21/-7.45	-7.78/-13.21	-8.84/-4.23	-2.93/-4.09	-3.72/-3.62	-4.79/-4.57	-6.63/-5.75	-5.19/-8.89	-6.48/-18.13	-9.51/-9.71	-2.93/-1.96	-5.97/-8.61	-6.44/-12.6	-11.72/-7.09	-12.31/-9.67	-8.1/-14.44	-4.48/-6.89
Θ(127.5°)	-17.3/-18.29	-11.79/-17.58	-8.38/-4.94	-5.52/-7.04	-7.28/-16.04	-16.47/-10.18	-6.22/-1.83	-2.94/-8.99	-5.76/-3.49	-6.94/-4.82	-3.09/-6.1	-6.41/-7.28	-8.73/-8.18	-7.92/-10.15	-4.72/-6.55	-18.97/-18.93	-13.49/-17.52	-11.4/-12.48	-17.2/-9.39	-8.82/-8.93	-15.75/-11.22	-16.47/-6.98	-6.56/-8.63	-9.51/-7.97
Θ(135°)	-14.22/-12.69	-7.58/-8.01	-11.21/-7.56	-7.58/-6.96	-8.43/-13.94	-17.05/-17.94	-18.94/-11.47	-5.35/-5.99	-8.56/-8.55	-10.93/-16.1	-15.24/-9.83	-3.75/-3.22	-5.23/-7.54	-15.27/-7.35	-1.75/-6.16	-18.81/-14.53	-16.75/-18.66	-9.57/-9.04	-14.05/-8.16	-8.65/-17.85	-17.26/-16.04	-5.11/-6.67	-11.16/-7.45	-14.46/-19.24
Θ(142.5°)	-8.36/-14.91	-12.42/-7.48	-9.57/-16.31	-14.25/-10.19	-11.15/-17.64	-18.42/-13.1	-8.62/-9.84	-10.64/-10.09	-9.67/-9.29	-5.66/-5.06	-8.19/-8.25	-7.89/-7.05	-11.04/-14.08	-12.54/-6.87	-6.7/-9.17	-10.35/-10.93	-18.5/-13.86	-15.51/-17.84	-17.57/-17.42	-18.43/-15.85	-13.55/-15.39	-10.18/-11.12	-15.33/-18.01	-18.47/-11.31
Θ(150°)	-12.57/-6.94	-9.34/-16.06	-9.82/-10.16	-13.58/-18.93	-18.18/-19.47	-19.06/-18	-11.17/-9.02	-8.3/-8	-7.61/-7.61	-11.27/-13.96	-14.93/-10.15	-6.23/-6.52	-7.72/-12.41	-11.36/-9.73	-13.1/-14.16	-9.96/-13.69	-19.07/-13.7	-12.22/-17.6	-17.53/-13.76	-15.7/-17.3	-11.64/-9.37	-14.11/-19.02	-8.31/-10.15	-13.08/-16.62
Θ(157.5°)	-17.85/-15.56	-17.55/-17.92	-18.77/-19.18	-17.85/-17.81	-13.92/-13.25	-13.82/-13.9	-12.43/-13.85	-15.33/-16.54	-17.05/-14.06	-8.93/-6.78	-8.33/-10.34	-11.65/-12.25	-10.49/-9.73	-10.9/-13.84	-16.77/-18.34	-14.09/-13.88	-13.59/-11.46	-12.26/-13.26	-14.12/-18.46	-17.91/-18.89	-17.16/-18.89	-19.26/-18.79	-19.25/-18.15	-12.99/-14.75
Θ(165°)	-15.67/-13.36	-17.94/-17.36	-15.49/-14.21	-16.02/-18.15	-19.11/-15.39	-14.08/-15.56	-16.15/-13.04	-12.23/-11.1	-9.54/-7.75	-6.35/-5.96	-7.22/-9.17	-11.94/-13.08	-12.63/-13.47	-19.24/-18.03	-14.75/-10.5	-9.1/-11.61	-18.02/-17.89	-18.19/-18.56	-18.89/-17.78	-18.54/-11.24	-10.24/-12.61	-16.05/-18.8	-18.8/-12.23	-13.38/-18.28
Θ(172.5°)	-18.92/-17.72	-14.29/-13.69	-13.34/-13.55	-13.72/-14.83	-19.2/-18.34	-17.73/-17.69	-19.39/-18.58	-17.55/-15.53	-14.34/-13.65	-15.23/-16.58	-13.7/-12.35	-13.02/-13.26	-13.61/-16.2	-17.36/-18.91	-17.96/-15.29	-12.63/-11.66	-11.52/-12.92	-15.21/-13.24	-11.9/-11.81	-15.32/-18.74	-18.38/-15.58	-16.44/-19.01	-18.7/-15.78	-16.83/-18.7
Θ(180°)	-17.4/-18.7	-16.95/-18.54	-18.54/-19.37	-18.89/-17.77	-18.22/-15.45	-14.18/-14.07	-14.88/-16.96	-16.63/-16.38	-14.79/-13.96	-13.71/-16.26	-17.74/-17.38	-16.95/-17.3	-19.32/-17.86	-17.57/-19	-18.36/-18.57	-17.5/-18.66	-16.37/-14	-13.18/-13.04	-12.89/-11.8	-9.99/-8.72	-8.65/-7.7	-7.57/-8.36	-8.88/-10.29	-13.13/-15.06
Freq(Hz)	6.995GPol.	PhiAnt. 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°)	-11.22/-12.71	-13.3/-11.88	-10.68/-11.05	-10.78/-11.07	-10.81/-9.59	-8.61/-8.3	-8.3/-9.6	-10.8/-11.27	-10.67/-10.43	-11.57/-13.36	-12.83/-11.38	-9.71/-9.73	-10.04/-10.24	-10.34/-9.84	-9.89/-10.21	-9.93/-11.4	-12.95/-12.89	-11.54/-11.44	-12.28/-14.1	-14.68/-13.75	-12.51/-13.14	-13.41/-12.85	-13.77/-14.07	-13.9/-11.88
Θ(7.5°)	-13.97/-13.86	-14.89/-12.96	-11.74/-11.46	-11.01/-11.46	-11.8/-12.83	-12.91/-14.26	-13.65/-14.56	-13.88/-13.61	-14.69/-15.02	-13.86/-13.43	-12.96/-13.74	-13.15/-13.01	-12.84/-12.72	-11.35/-10.88	-10.81/-10.13	-8.99/-7.93	-6.73/-6.5	-6.33/-7.05	-7.31/-8.46	-10.53/-13.71	-13.67/-13.22	-14.12/-14.34	-14/-14.01	-15.08/-15.1
Θ(15°)	-10.84/-7.39	-7.27/-8.22	-11.33/-15.87	-17.22/-14.79	-14.13/-11.69	-11.13/-12.71	-16.44/-15.7	-12.63/-10.08	-7.87/-8.47	-11.9/-19.02	-18.14/-18.08	-17.61/-18.44	-16.11/-13.17	-11.07/-10.49	-10.39/-10.79	-11.27/-10.62	-8.33/-6.69	-5.8/-5.51	-6.01/-7.19	-14.2/-11.36	-11.4/-12.12	-12.05/-13.42	-18.9/-19.21	
Θ(22.5°)	-7.65/-4.16	2.23/-3.1	-6.81/-13.95	-12.31/-10.51	-15.67/-12.01	-9.64/-12.17	-13.87/-8.96	-5.21/-3.2	-3.67/-7.26	-17.21/-18.2	-15.19/-14.94	-15.51/-13.04	-10.95/-8.78	-8.71/-9.89	-10.73/-10.37	-9.87/-11.39	-14.97/-15.07	-10.68/-7.02	-4.67/-4.78	-8.79/-14.23	-9.85/-8.58	-9.64/-11.11	-13.19/-16.64	-13/-9.65
Θ(30°)	-4.13/-4.86	-4.1/-4.56	-6.94/-13.73	-16.53/-18.61	-16.8/-7.91	-6.13/-9.83	-17.46/-14.84	-9.12/-8.18	-11.79/-18.94	-13.58/-12.48	-11.94/-11.36	-12.81/-18.46	-14.9/-7.73	-7.87/-11.5	-17.93/-18.59	-13.95/-14.15	-15.34/-12.9	-11.86/-7.4	-6.23/-7.87	-12.06/-19.09	-12.07/-9.49	-7.9/-6.16	-7.41/-15.17	-13.76/-5.29
Θ(37.5°)	-5.21/-7.79	-9.97/-8.6	-10.32/-11.47	-19/-18.94	-17.86/-7.16	-4.86/-9.73	-19.16/-17.73	-9.63/-9.73	-17.74/-18.74	-18.11/-10.12	-8.1/-10.44	-12.12/-9.85	-15.2/-8.45	-6.41/-9.71	-17.68/-19.26	-12.12/-9.88	-17.7/-18.44	-10.57/-6.9	-7.52/-10.87	-10.57/-9.95	-10.27/-10.18	-10.32/-8.21	-8.68/-16.5	-14.44/-1.42
Θ(45°)	-11.37/-12.6	-14.21/-11.31	-8.55/-7.98	-11.93/-18.74	-11.88/-10.07	-10.39/-14.76	-15.77/-14.17	-10.59/-11.1	-18.52/-18.52	-8.96/-4.93	-7.25/-10.21	-8.63/-12.34	-19.17/-18.43	-14.64/-11.09	-18.56/-16.81	-18.27/-9.5	-11.7/-17.92	-8.65/-7.83	-11.09/-16.47	-11.41/-7.35	-10.65/-17.77	-15.54/-15.71	-18.52/-15.39	-18.82/-18.05
Θ(52.5°)	-18.13/-14.63	-17.9/-13.92	-11.56/-9.04	-9.78/-10.24	-8.21/-13.13	-19.33/-17.99	-15.14/-18.45	-18.29/-19.25	-14.42/-13.25	-10.39/-10.42	-15.59/-17.37	-9.83/-11.43	-18.36/-19.02	-12.48/-15.14	-17.94/-18.29	-11.84/-7.95	-19.72/-14.5	-6.88/-5.38	-18.51/-16.58	-13.27/-9.58	-15.6/-14.63	-18.3/-15.55	-14.9/-13.93	
Θ(60°)	-17.66/-14.96	-18.35/-14.43	-16.08/-13.62	-8.28/-8.45	-7.09/-11.11	-18.52/-18.43	-13.11/-17.42	-16/-15.02	-10.64/-10.73	-18.41/-18.22	-17.1/-13.35	-13.62/-14.73	-16.98/-18.68	-12.24/-14.78	-16.73/-18.24	-11.02/-5.7	-18.28/-12.76	-9.92/-5.91	-14.88/-14.69	-12.73/-13.08	-12.18/-17.87	-17.43/-15.77	-12.96/-15.03	-12.92/-12.95
Θ(67.5°)	-13.39/-18.14	-17.11/-19.04	-12.72/-11.73	-8.91/-12.27	-11.3/-11.14	-18.1/-17.83	-18.92/-18.01	-12.74/-13.33	-7.63/-9.24	-14.57/-17.94	-16.94/-13.34	-17.84/-17.11	-13.21/-16.7	-13.6/-14.53	-18.76/-19.34	-15.56/-8.73	-18.33/-11.37	-15.65/-9.43	-11.69/-15.94	-18.58/-18.59	-13.64/-15.96	-18.2/-15.35	-13.96/-14.02	-11.08/-13.17
Θ(75°)	-16.82/-19.33	-15.52/-18.91	-10.78/-11.3	-9.42/-10.49	-11.58/-7.46	-11.01/-19.09	-17.28/-18.5	-18.07/-15.79	-11.52/-7.65	-15.99/-14.6	-17.37/-14.94	-18.64/-17.32	-13.61/-15.12	-17.87/-11.94	-11.54/-17.75	-17.69/-16.71	-18.6/-10.78	-12.83/-9.98	-9.06/-11.46	-13.5/-18.04	-13.67/-13.22	-14.5/-11.76	-19.23/-15.33	-13.51/-13.79
Θ(82.5°)	-12.1/-18.24	-15.4/-18.92	-12.9/-13.18	-10.28/-14.56	-13.92/-6.67	-14.69/-18.34	-19.26/-19.19	-17.46/-18.33	-16.01/-9.02	-18.91/-17.54	-16.15/-14.5	-17.81/-15.98	-14.66/-11.61	-18.41/-16.17	-11.23/-17.76	-17.09/-18.53	-15.28/-11.6	-12.31/-13.22	-6.58/-10.68	-9.64/-11.08	-13.68/-16.06	-18.96/-10.81	-18.95/-12.63	-12.67/-11.42
Θ(90°)	-9.73/-12.78	-14.29/-18.63	-18.73/-13.35	-11.81/-14.88	-12.57/-9.26	-13.43/-11.02	-9.56/-17.65	-17.8/-19.5	-18.81/-12.26	-19.15/-14.52	-12.84/-19.18	-18.29/-15.15	-19.42/-10.3	-17/-18.7	-13.18/-18.57	-18.77/-16.71	-11.63/-14.1	-11.02/-10.95	-8.56/-8.37	-12.07/-11.04	-13.4/-17.18	-19.49/-11.35	-17.97/-12.53	-10.95/-15.96
Θ(97.5°)	-11.45/-11.47	-16.67/-18.06	-17.79/-10.89	-16.1/-17.93	-13.05/-10.67	-15.05/-12.41	-11.25/-18.29	-18.33/-18.62	-18.59/-16.6	-17.19/-16.29	-13.98/-18.64	-18.26/-15.98	-18.04/-8.24	-18.94/-16.52	-13.99/-17.88	-18.55/-18.13	-17.48/-18.68	-10.39/-13.42	-12.68/-8.99	-17.02/-11.97	-15.63/-19.14	-17.08/-10.69	-17.97/-15.5	-12.09/-19.3
Θ(105°)	-10.54/-13.34	-18.16/-18.75	-17.33/-10.92	-16.05/-15.76	-11.67/-14.07	-12.32/-16.78	-18.92/-17.8	-14.74/-18	-19.3/-17.12	-18.54/-18.63	-12.51/-15.15	-19.07/-17.41	-17.35/-10.79	-15.57/-17.58	-18.11/-18.78	-18.51/-11.88	-17.41/-15.6	-10.57/-17.66	-13.02/-13.02	-16.09/-15.06	-17.92/-18.17	-14.35/-14.92	-15.15/-15.66	-14.23/-18.75
Θ(112.5°)	-19.08/-18.24	-11.37/-18.65	-12.71/-15	-19.38/-15.29	-14.02/-19.19	-14.56/-14.5	-16.87/-18.12	-18.31/-18.11	-16.19/-18.75	-18.73/-18.78	-15.91/-15.2	-17.97/-18.9	-18.99/-11.9	-16.55/-17.59	-18.85/-16.25	-18.51/-18.11	-19.09/-17.93	-13.63/-18.72	-18.11/-14.14	-14.69/-14.36	-18.41/-18.52	-14.62/-15.42	-18.75/-17.9	-18.92/-19.42
Θ(120°)	-19.19/-17.57	-8.89/-17.95	-16.75/-17.98	-16.38/-14.53	-18.35/-17.69	-14.05/-18.93	-17.36/-15.03	-14.57/-18.37	-18.29/-14.17	-18.27/-18.2	-17.95/-18.83	-15.65/-19.19	-18.98/-13.95	-9.61/-18.36	-17.73/-16.07	-16.87/-13.85	-14.78/-17.59	-14.64/-11.26	-17.69/-16.37	-9.51/-18.51	-17.56/-16.91	-18.23/-13.08	-18.97/-19.7	-18.07/-14.34
Θ(127.5°)	-18.32/-11.22	-15.8/-19.27	-17.47/-17.44	-10.36/-14.26	-15.01/-18	-11.95/-17.37	-16.54/-19.37	-18.34/-17.48	-18.62/-17.21	-18.9/-18.09	-17.77/-18.09	-18.28/-17.87	-17.81/-17.82	-17.73/-12	-15.16/-15.07	-19/-18.26	-12.85/-11.16	-18.31/-17.82	-12.98/-13.06	-18.44/-19.61	-19.08/-16.56	-16.62/-16.37	-14.06/-18.02	-17.99/-15.59
Θ(135°)	-12.34/-18.91	-13.9/-17.94	-14.3/-17.13	-12.1/-14.22	-15.98/-14.32	-19.22/-18.62	-18.13/-18.38	-18.41/-17.26	-18.23/-18.96	-18.57/-14.68	-18.61/-17.51	-17.86/-18.42	-18.34/-18.01	-11.36/-10.77	-16.57/-18.03	-16.77/-13.2	-12.39/-18.74	-13.66/-7.09	-19.07/-15.58	-19.47/-16.57	-19.35/-19.07	-15.52/-16.22	-18.98/-11.61	
Θ(142.5°)	-17.01/-15.69	-14.38/-18.63	-12.08/-12.08	-12.26/-9.06	-18.94/-18.32	-18.39/-18.18	-16.66/-19.04	-18.75/-18.37	-19.03/-18.73	-18.15/-15.46	-18.87/-18.34	-12.6/-14.19	-18.62/-13.11	-15.46/-12.31	-9.84/-18.62	-14.89/-16.11	-11.65/-18.28	-18.23/-18.69	-11.47/-12.81	-14.67/-17.53	-16.67/-13.61	-11.06/-11.57	-18.58/-17.85	-19.11/-18.43
Θ(150°)	-11.36/-15.54	-10.71/-13.88	-10.54/-8.33	-13.76/-13.5	-13.37/-17.31	-18.87/-17.72	-17.9/-17.28	-14.79/-15.05	-18.1/-17.81	-19/-13.51	-13.65													



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Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	5.33	4.93	5.5	4.83
Ant. 2 Max Gain (dBi)	5.41	4.54	5.26	5.39
Ant. 1 Polarization/Θ(°)/Φ(°)	Theta/67.5/352.5	Theta/67.5/345	Theta/60/0	Theta/67.5/307.5
Ant. 2 Polarization/Θ(°)/Φ(°)	Theta/52.5/7.5	Theta/60/225	Theta/67.5/285	Theta/75/180
Max Gain (dBi)	5.41	4.93	5.5	5.39
DG [1SS] (dBi)	7.38	6.63	8	7.03
DG [2SS] (dBi)	5.41	4.93	5.5	5.39





Radiated Composite Gain Data_6G (2TX / Ant 1~2)

Appendix F

Θ(22.5°)	-12.12/-14.92	-15.22/-15.05	-14.05/-10.61	-8.35/-7.64	-7.63/-6.53	-5.73/-4.64	-4.97/-6.44	-9.44/-12.38	-11.05/-10	-9.81/-10.22	-11.04/-10.37	-7.63/-5.92	-6.17/-6.88	-6.6/-6.6	-6.46/-6.54	-7.34/-9.74	-12.65/-14.48	-13.55/-12.1	-11.23/-13.39	-15.61/-11.05	-7.8/-7.25	-7.33/-8.84	-10.89/-11.01	-10.15/-10.17
Θ(30°)	-12.94/-12.37	-11.61/-9.24	-11.11/-12.58	-7.7/-5.73	-6.23/-7.32	-8.1/-7.47	-7.98/-11.01	-10.29/-9.54	-6.84/-4.27	-6.01/-11.22	-13.4/-11.37	-9.73/-7.21	-8.81/-7.77	-8.81/-10.14	-8.74/-7.89	-8.74/-11.67	-15.08/-12.41	-11.75/-11.31	-11.22/-12.46	-10.41/-7.91	-7.55/-9.36	-12.03/-10.76	-12.54/-11.69	-9.93/-10.89
Θ(142.5°)	-13.47/-9.46	-5.44/-6.73	-13.42/-15.51	-10.72/-5.79	-3.71/-6.13	-5.91/-7.17	-9.94/-10.17	-6.72/-11.12	-7.82/-4	-8.86/-12.07	-11.05/-7.94	-7.67/-6.5	-5.94/-7.73	-10.55/-11.08	-8.91/-9.04	-12.68/-15.79	-15/-11.65	-13.38/-11.13	-9.05/-12.81	-10.93/-10.69	-10.9/-8.79	-12.1/-13.48	-10.18/-12.78	
Θ(45°)	-11.7/-10.28	-6.63/-6.93	-10.02/-14.6	-11.38/-9.16	-5.83/-6.06	-7.99/-12.18	-15.74/-12.9	-9.09/-9.37	-12.13/-8.9	-12.14/-10.18	-9.41/-7.65	-7.32/-7.61	-5.73/-6.72	-9.85/-12.34	-7.16/-6.68	-9.41/-13.22	-13.24/-9.7	-10.14/-10.95	-8.32/-11.41	-12.37/-15.22	-15.94/-11.24	-13.12/-14.97	-14.2/-9.6	-11.85/-14.8
Θ(52.5°)	-11.57/-11.55	-8.74/-9.16	-7.69/-11.54	-9.79/-5.48	-6.14/-9.12	-12.73/-11.64	-13.48/-10.47	-10.71/-10.2	-15.17/-11.19	-7.37/-10.04	-14.6/-9.49	-8.59/-12.52	-9.86/-7.67	-10.74/-15.1	-10.38/-8.84	-14.75/-15.9	-14.37/-8.67	-9.72/-12.64	-11.11/-10.53	-11.38/-13.32	-9.65/-6.3	-7.01/-10.97	-12.59/-10.09	-10.88/-13.36
Θ(60°)	-11.71/-11.52	-9.15/-10.48	-7.16/-9.8	-9/-2.99	-5.04/-6.79	-15.74/-8.63	-11.36/-10.64	-8.42/-9.22	-13.69/-8.26	-6.96/-6.25	-7.96/-11.13	-10.62/-15	-7.98/-10.2	-10.9/-11.17	-12.26/-13.97	-12.85/-10	-10.71/-14.99	-12.83/-9.73	-11.78/-11.59	-8.78/-5.17	-5.12/-8.02	-11.44/-10.05	-9.09/-10.51	
Θ(67.5°)	-8.75/-15.02	-8.5/-10.99	-7.05/-10.76	-9.83/-2.95	-5.45/-8.98	-15.19/-10.52	-13.74/-12.14	-6.52/-8.8	-13.36/-6.76	-5.64/-8.95	-9.3/-13.34	-13.51/-10.94	-8.27/-4.38	-7.97/-10.6	-10.11/-13.8	-13.54/-11.16	-9.78/-9.47	-14.13/-15.59	-14.98/-10.43	-11.66/-12.6	-7.3/-7.81	-7.59/-12.9	-11.19/-8.11	-11.72/-8.74
Θ(75°)	-10.81/-14.58	-10.5/-12.23	-10.16/-11.48	-12.13/-4.15	-5.65/-11.73	-15.28/-9.9	-12.56/-12.5	-5.22/-6.37	-10.11/-10.15	-8.06/-9.54	-12.15/-15.55	-10.23/-9.09	-7.81/-5.31	-6.44/-9.6	-10/-15.12	-15.41/-8.11	-7.97/-10.3	-11.99/-14.85	-12.23/-10.49	-13.37/-14.52	-9.97/-10.98	-12.92/-14.04	-10.89/-12.03	-14.14/-7.77
Θ(82.5°)	-11.87/-11.79	-13.59/-14.63	-12.23/-10.09	-14.69/-7.46	-7.92/-10.99	-15.9/-10.22	-12.05/-11.88	-6.22/-6.26	-10.84/-12.14	-11.73/-14	-11.57/-13.6	-10.42/-6.97	-8.48/-8.04	-6.89/-11.73	-12.13/-14.64	-13.68/-7.92	-8.71/-14.79	-11.02/-13.08	-12.01/-11.34	-11.24/-13.36	-9.96/-13.02	-12.61/-11.53	-10.68/-13.44	-12.54/-7.52
Θ(90°)	-13.74/-10.24	-13.02/-15.64	-15.17/-9.45	-14.71/-11.09	-8.94/-11.8	-14.49/-13.46	-10.89/-13.73	-9.93/-7.07	-10.31/-13.34	-15.64/-14.19	-11.74/-12.72	-11.58/-6.75	7.57/-14.49	-5.67/-13.84	-15.96/-16.08	-15.18/-10.13	-10.93/-12.61	-15.04/-12.37	-14/-10.89	-9.88/-15.09	-10.24/-11.52	-12.84/-9.76	-9.39/-12.68	-13.35/-7.74
Θ(97.5°)	-15.27/-8.44	-15.41/-14.83	-14.73/-9.67	-11.26/-12.9	-9.48/-12.06	-13.63/-14.87	-12.28/-14.59	-11.83/-9.14	-11.3/-13.33	-13/-13.86	-13.92/-12.29	-10.93/-7.9	-9.12/-14.7	-6.56/-15.59	-15.09/-15.69	-15.54/-13.69	-11.8/-13.42	-13.37/-8.43	-15.14/-10.05	-14.1/-13.26	-10.69/-12.44	-13.37/-9.31	-8.93/-13.86	-12.36/-8.6
Θ(105°)	-14.58/-11.01	-14.93/-15.13	-15.29/-8.91	-11.3/-14.14	-11.42/-12.08	-9.85/-15.11	-9.95/-13.21	-15.74/-11.71	-11.51/-11.07	-11.33/-13.15	-15.72/-14.58	-10.14/-11.59	-10.76/-12.11	-10.49/-14.12	-13.95/-15.94	-15.46/-15.51	-14.95/-16.13	-13.4/-8.04	-13.95/-10.52	-15.41/-15.21	-15.08/-10.56	-10.65/-9.37	-9.45/-11.58	-13.22/-9.69
Θ(112.5°)	-15.4/-12.71	-13.45/-15.76	-15.87/-9.84	-11.59/-11.52	-10.4/-10.29	-12.53/-15.33	-12.36/-12.97	-14.96/-12.87	-10.31/-9.88	-11.82/-15.23	-14.53/-14.61	-10.39/-13.74	-13.29/-10.86	-13.15/-13.71	-13.5/-15.18	-12.67/-15.04	-13.41/-14.04	-15.12/-8.63	-11.77/-13.82	-13.3/-14.37	-13.04/-14.61	-12.26/-9.22	-11.02/-12.41	-12.95/-10.24
Θ(120°)	-15.37/-14.34	-15.12/-11.95	-15.12/-11.95	-14.42/-12.86	-10.27/-12.68	-9.21/-13.47	-14.22/-12.67	-10.32/-15.15	-14.26/-12.33	-12.58/-11.22	-12.24/-15.21	-11.9/-15.15	-15.11/-10.74	-9.42/-15.81	-15/-14.28	-10.43/-12.77	-10.54/-13.3	-8.65/-10.94	-11.65/-8.63	-13.12/-15.26	-14.52/-14.74	-12.22/-9.26	-10.42/-10.26	-13.88/-12.8
Θ(127.5°)	-12.64/-15.67	-16.05/-15.95	-16.26/-11.12	-14.07/-15.35	-12.66/-14.02	-11.13/-10.34	-14.98/-12.06	-12.75/-13.73	-15.43/-14.3	-6.3/-7.73	-10.53/-14.12	-8.8/-14.36	-10.43/-11.15	-10.02/-13.84	-12.12/-12.08	-13.06/-9.64	-12.19/-9.64	-5.86/-16.33	-12.53/-8.8	-12.57/-11.36	-15.14/-15.5	-9.46/-11.82	-10.78/-13.03	-13.49/-13.13
Θ(135°)	-13.08/-13.91	-14.37/-15.06	-14.66/-12.58	-10.72/-11.5	-15.39/-14.09	-10.86/-8.37	-9.43/-9.6	-10.75/-11.11	-11.71/-14.85	-12.53/-13.01	-10.26/-6.49	-7.38/-12.5	-7.17/-13.07	-13.92/-15.01	-11.39/-7.24	-11.04/-7.44	-8.39/-6.85	-10.49/-10.03	-14.71/-7.61	-7.92/-12.58	-9.97/-14.21	-10.93/-6.79	-7.1/-12.94	-12.42/-10.61
Θ(142.5°)	-10.94/-10.8	-10.27/-14.7	-10.99/-11.66	-15.55/-14.68	-12.94/-13.4	-14.15/-12.43	-14.59/-15.26	-15.13/-12.07	-11.85/-9.72	-10.26/-11.3	-8.72/-14.56	-12.17/-10.83	-10.94/-11.6	-15.42/-11.72	-15.95/-9.25	-11.8/-9.57	-13.81/-11.28	-10.75/-15.5	-11.88/-9.41	-8.93/-15.76	-15.07/-10.06	-9.54/-7.16	-10.69/-11.43	-8.61/-8.12
Θ(150°)	-13.13/-15.73	-13.83/-10.95	-10.04/-8.58	-9.01/-11.45	-13.71/-15.71	-11.69/-8.44	-8.57/-12.8	-9.72/-10.13	-10.46/-9.72	-10.87/-1.81	-11.02/-9.41	-12.11/-9.85	-7.62/-8.93	-9.05/-7.57	-13.68/-12.57	-10.77/-13.17	-15.22/-11.31	-10.54/-12.26	-12.86/-12.43	-9.71/-10.11	-11.42/-15.74	-12.9/-14.49	-13.35/-10.41	
Θ(157.5°)	-13.64/-15.54	-15.22/-15.13	-15.03/-13.74	-8.8/-8.05	-10.79/-9.86	-9.37/-8.98	-9.53/-11.12	-9.72/-10.23	-11.4/-15.2	-9.5/-8.92	-11.96/-9.51	-11.15/-10.57	-12.81/-8.18	-6.09/-10.31	-12.63/-10.49	-14.79/-15.45	-11.23/-15.86	-14.8/-12.86	-13.11/-14.7	-15.45/-12.61	-9.57/-9.95	-11.38/-12.23	-14.71/-15.44	-14.22/-12.12
Θ(165°)	-13.37/-14.3	-14.31/-15.16	-15.24/-14.82	-12.37/-10.99	-11.12/-13.01	-15.28/-13.41	-13.07/-14.9	-15.22/-13.2	-10.33/-9.43	-10.09/-13.59	-11.83/-9.04	-9.97/-10.81	-12.78/-12.69	-9.28/-9.02	-12.16/-5.48	-10.29/-8.71	-9.92/-10.87	-11.25/-13.34	-15.29/-15.03	-14.71/-13.85	-12.44/-9.49	-8.69/-9.31	-10.1/-10.41	-11.5/-12.62
Θ(172.5°)	-11.86/-11.93	-12.22/-14.36	-16.18/-15.96	-14.89/-14.74	-14.32/-15.17	-15.48/-16.04	-15.41/-13.97	-13.42/-11.41	-10.06/-9.56	-9.16/-9.99	-12.2/-15.27	-15.5/-14.84	-13.82/-13.73	-12.78/-13.85	-13.94/-13.94	-12.87/-13.87	-12.22/-10.92	-11.98/-11.49	-10.86/-11.07	-10.72/-10.79	-9.81/-8.63	-8.26/-9.46	-9.49/-10.1	-10.98/-11.12
Θ(180°)	-13.23/-13.5	-14.2/-14.95	-15.69/-14.38	-15.59/-15.33	-14.85/-15.44	-15.93/-14.1	-12.15/-12.23	-12.68/-12.69	-13.08/-12.5	-12.76/-13.7	-14.87/-16.04	-15.88/-14.06	-14.34/-14.21	-14.5/-14.75	-15.11/-15.45	-14.82/-14.7	-14.34/-14.22	-14.86/-15.73	-15.5/-15.21	-15.34/-15.19	-15.15/-15.94	-15.08/-15.27	-13.67/-13.51	-13.5/-12.77
Freq(Hz)	6.995GPol.	ThetaL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-8.37/-8.67	-8.92/-8.92	-8.45/-8.66	-8.56/-8.24	-8.31/-8.85	-9.05/-7.82	-8.86/-7.09	-7.34/-6.96	-5.63/-5.24	-5.33/-5.19	-4.99/-5.08	-5.39/-5.67	-5.81/-6.39	-6.84/-7	-8.07/-9.1	-9.43/-9.28	-9.7/-9.39	-8.8/-8.74	-8.13/-8.16	-7.57/-6.63	-6.66/-6.96	-7.42/-7.37	-8.31/-8.28	-8.27/-8.12
Θ(7.5°)	-5.61/-5.3	-4.78/-5.07	-5.81/-6.63	-7.37/-5.53	-7.98/-6.83	-8.26/-8.73	-8.45/-8.54	-8.89/-8.33	-8.4/-8.65	-9.46/-10.65	-11.33/-12.11	-12.57/-12	-11.82/-9.93	-8.05/-8.69	-6.41/-6.56	-6.64/-6.12	-6.73/-6.71	-8.23/-7.94	-7.87/-7.69	-6.76/-6.72	-6.56/-6.68	-6.27/-6.05	-6.48/-6.85	-5.95/-6.03
Θ(15°)	-3.22/-2.88	-2.86/-3.02	-3.22/-3.98	-4.71/-4.2	-3.47/-3.16	-3.74/-4.9	-5.95/-6.87	-7.41/-7.46	-7.07/-8.03	-10.45/-10.65	-9.62/-10.91	-12.26/-11.72	-9.37/-5.58	-6.52/-6.78	-7.71/-7.74	-8.37/-8.1	-8.06/-9.01	-8.59/-8.65	-8.91/-9.66	-10.83/-12.26	-13.16/-10.82	-8.07/-5.75	-3.98/-3.68	-3.36/-3.18
Θ(22.5°)	-8.02/-7.97	-8.26/-8.27	-6.96/-5.36	-3.68/-2.95	-3.85/-4.08	-3.85/-3.86	-4.53/-6.74	-8.44/-8.53	-8.11/-8.98	-9.67/-11.47	-13.75/-13.84	-13.85/-11.16	-8.79/-8.67	-8.95/-10.1	-10.46/-9.7	-9.21/-8.85	-8.15/-7.08	-5.86/-5.48	-4.58/-4.16	-3.4/-3.08	-3.03/-3.63	-4.65/-5.58	-5.19/-5.05	-5.97/-7.42
Θ(30°)	-6.58/-8.4	-8.32/-7.46	-6.07/-4.36	-1.750/09	0.43/-1.44	-4.93/-4.4	-2.96/-3.24	-3.72/-2.45	-1.81/-3.35	-6.13/-8.45	-10.84/-9.98	-5.36/-3.6	-3.06/-3.16	-5.66/-9.06	-8.32/-8.03	-11.47/-11.67	-9.55/-8.69	-6.83/-5.52	-4.31/-2.27	-0.420/7.5	1.45/-1.4	-0.04/-2.83	-5.53/-4.81	-4.33/-4.87
Θ(37.5°)	-0.72/-1.29	-4.19/-4.12	-2.63/-2.95	-3.47/-1.8	0.27/-0.08	-1.81/-2.85	-2.95/-4.01	-6.27/-5.51	-4.22/-3.58	-2.71/-2.53	-2.97/-4.2	-2.91/-2.89	-2.8/-5.15	-3.95/-1.91	0.64/-0.51	-6.48/-10.64	-9.36/-8.62	-5.99/-3.89	-1.170/9.8	1.60/-95	-0.58/-1.07	-1.020/-2	1.51/-1.61	1.23/-0.26
Θ(45°)	1.74/-1.81	-0.75/-4.06	-4.07/-4.82	-3.3/-3.5	-0.66/-1.33	0.82/-1.04	-0.64/-0.43	-2.04/-4.23	-3.8/-4	-2.64/-0.59	2.07/-1.43	-0.66/-1.55	-1.92/-4.41	-0.770/44	2.39/-32	-0.44/-1.74	0.02/-1.51	-2.35/-0.2	2.37/-5.55	3.04/-1.66	1.88/-1.33	0.050/5	2.33/-0.05	1.96/-1.65
Θ(52.5°)	6.18/-5.35	2.54/-0.09	1.77/-0.59	-2.51/-0.97	0.63/-2.36	2.06/-0.93	0.25/-1.08	2.08/-2.4	2.83/-3.19	3.43/-4.46	4.25/-4.4	1.36/-0.96	-1.67/-1.48	-0.820/79	2.82/-831	1.79/-1.32	1.78/-0.6	-2.41/-1.03	3.594/0.8	3.864/1.8	4.844/0.9	3.542/89	3.24/59	5.846/68
Θ(60°)	7.476/86	4.68/-51	4.882/72	1.93/-03	2.52/-4	3.152/72	1.94/-199	2.36/-4	4.994/95	4.913/87	2.45/-1.81	2.06/-1.1	-1.91/-1.1	-1.081/39	2.23/86	3.020/79	0.61/-1.75	-3.06/-1.02	1.782/79	4.354/73	5.374/86	5.375/02	4.45/-566	87/94
Θ(67.5°)	6.696/64	4.114/95	6.053/96	2.964/62	3.52/78	3.763/4	3.835/-1	4.043/56	4.23/99	4.543/59	0.54/-0.98	2.581/85	1.610/79	-0.23/-1.58										



Appendix G

[illegible]



Antenna Pattern_2G5G

Appendix G

Θ(22.5°)	0.690/81	0.52/-0.01	-0.060/5.0	0.920/7.4	-0.00/-1.00	-1.77/-1.29	-0.69/-1.34	-3.35/-5.18	-5.12/-4.63	-3.65/-3.16	-3.57/-4.88	-7.56/-8.51	-10.34/-13.04	-10.58/-8.04	-7.49/-8.10	-9.23/-8.18	-7.15/-6.11	-5.00/-4.81	-5.36/-6.00	-6.01/-5.11	-4.63/-4.90	-5.30/-4.04	-2.30/-0.76	-0.100/37	
Θ(30°)	2.373/17	3.54/62	0.770/61	0.640/83	1.230/17	-2.25/-3.14	-1.50/-1.52	-4.17/-9.64	-5.23/-4.40	-3.75/-5.48	-6.83/-8.90	-10.85/-13.20	-15.27/-14.95	-13.69/-9.67	-7.59/-5.44	-4.79/-6.39	-6.87/-3.94	-2.74/-3.11	-4.01/-5.45	-6.78/-6.04	-5.22/-5.08	-3.96/-3.85	-3.96/-2.56	-0.07/1.44	
Θ(142.5°)	1.782/39	2.10/91	1.722/25	1.370/30	1.631/52	-0.83/-2.29	-1.29/-1.83	-3.64/-3.38	-1.92/-2.43	-3.29/-2.71	-2.68/-3.87	-4.80/-5.97	-7.62/-8.31	-7.62/-6.02	-6.66/-4.02	-3.89/-5.67	-4.10/-2.16	-1.97/-2.28	-3.86/-8.89	-9.84/-5.47	-4.29/-3.48	-4.29/-3.45	-2.56/-0.19		
Θ(45°)	2.944/70	5.264/44	3.223/84	3.762/57	1.800/78	-1.48/-1.28	-0.550/17	1.532/01	0.561/0.4	-0.700/18	-0.85/-3.44	-3.68/-4.71	-4.73/-4.02	-5.13/-2.84	0.67/-0.93	-6.24/-3.98	-2.67/-1.81	-2.07/-3.54	-3.66/-6.72	-5.73/-2.22	-1.100/24	-0.29/-2.59	-1.77/1.54	1.920/79	
Θ(52.5°)	2.825/51	5.534/77	3.133/15	3.932/49	1.961/02	-2.23/-1.42	-0.98/1.84	3.343/09	0.53/-0.68	-0.760/15	-2.64/-2.13	0.44/-0.07	-1.57/-1.58	-3.71/-3.39	0.110/23	-5.25/-4.21	-2.94/-1.61	-1.81/-5.88	-5.01/-7.85	-4.26/-3.02	0.50/1.50	0.64/-1.3	0.32/1.84	2.250/46	
Θ(60°)	2.351/82	1.500/75	0.481/19	3.382/34	1.901/47	-1.41/-0.11	-0.061/1.71	2.932/86	1.300/89	-1.34/-0.16	-2.21/-1.23	-0.41/-1.42	-2.90/-1.12	-3.08/-5.56	-2.13/-0.87	-4.43/-3.43	-3.38/-2.09	-2.07/-5.70	-8.05/-8.40	-3.880/06	-1.21/-2.10	-1.34/-1.98	1.192/53	2.452/97	
Θ(67.5°)	2.67/-0.02	-2.47/-1.57	1.202/62	4.003/22	2.11/-0.21	-0.25/1.84	1.720/82	1.872/79	2.892/76	0.20/1.04	-2.09/-1.43	-3.17/-7.96	-3.24/-1.39	-5.71/-5.84	-2.87/-3.70	-5.84/-3.80	-2.80/-3.37	-2.15/-3.13	-6.76/-7.17	-1.84/0.06	-3.06/-1.39	0.19/-2.73	1.63/2.69	3.434/85	
Θ(75°)	1.900/99	-0.880/76	3.083/83	2.623/50	1.85/-3.10	-0.042/65	2.520/12	0.822/63	3.633/87	0.99/1.98	-1.91/-1.15	-3.15/-5.16	-2.50/-3.98	-5.33/-9.18	-3.51/-4.04	-5.28/-5.21	-2.05/-2.70	-2.14/-2.34	-3.88/-5.59	-1.51/0.06	-1.50/1.77	0.97/-3.56	0.71/1.81	2.684/11	
Θ(82.5°)	1.151/10	-0.42/-0.07	3.133/86	0.652/36	0.56/-6.58	-0.322/0.4	2.01/-2.19	-0.27/2.70	3.562/92	-0.13/1.54	-3.32/-0.52	-3.14/-3.13	-2.93/-5.91	-6.56/-10.97	-3.25/-4.63	-5.50/-7.73	-1.61/-2.64	-2.01/-1.16	-1.21/-4.02	-0.440/50	0.943/48	1.58/-2.19	-1.94/-0.84	1.002/00	
Θ(90°)	0.13/-0.69	-2.160/27	1.362/48	-2.16/-0.69	-2.17/-7.51	-2.02/1.05	-0.16/-2.95	-1.072/20	3.212/13	-2.480/49	-3.220/61	-1.08/-2.86	-0.78/-5.07	-4.45/-4.19	-10.76/-14.95	-4.29/-6.24	-6.07/-7.36	-7.84/-4.57	-12.28/-4.57	-4.48/-7.39	-9.90/-12.87	-5.53/-2.44	-3.80/-6.03	-5.38/-2.79	-7.37/-8.08
Θ(97.5°)	-1.01/-3.33	-7.24/-0.91	0.400/94	-3.69/-3.69	-5.42/-11.00	-2.99/-0.53	-1.99/-3.58	-2.530/75	1.910/49	-3.880/04	-3.08/-0.08	-0.70/-4.21	-2.95/-5.55	-8.47/-12.13	-3.37/-5.07	-4.63/-8.24	-5.63/-2.21	-8.09/-3.57	-2.38/-7.85	-5.11/-3.77	-1.26/-2.7	-0.71/-3.29	-4.46/-2.90	-5.91/-6.16	
Θ(105°)	-2.50/-7.50	-10.63/-1.86	-1.97/-1.39	-4.78/-6.53	-8.32/-9.53	-4.14/-1.17	-3.80/-2.92	-2.91/-0.16	0.980/36	-3.95/-1.41	-2.98/-1.90	-0.78/-5.07	-4.45/-4.19	-10.76/-14.95	-4.29/-6.24	-6.07/-7.36	-7.84/-4.57	-12.28/-4.57	-4.48/-7.39	-9.90/-12.87	-5.53/-2.44	-3.80/-6.03	-5.38/-2.79	-7.37/-8.08	
Θ(112.5°)	-2.86/-10.82	-5.94/-2.09	-2.08/-5.90	-6.27/-6.20	-10.16/-9.78	-4.38/-1.43	-6.00/-4.02	-4.76/-1.87	-2.08/-1.61	-4.89/-2.39	-3.54/-3.38	-2.84/-9.38	-4.63/-5.77	-14.45/-14.67	-7.56/-3.38	-5.41/-7.55	-9.25/-8.08	-6.63/-5.97	-8.99/-6.85	-11.32/-9.24	-8.98/-4.63	-5.56/-7.19	-5.75/-3.94	-4.86/-6.88	
Θ(120°)	-5.73/-9.07	-5.10/-5.50	-2.98/-8.40	-9.67/-4.37	-9.96/-6.44	-4.15/-3.25	-6.23/-6.96	-6.63/-2.47	-4.79/-4.18	-7.25/-3.70	-3.79/-6.12	-6.62/-6.40	-9.74/-12.57	-8.84/-7.65	-5.08/-4.59	-1.11/-3.07	-7.98/-8.33	-11.52/-10.79	-13.53/-15.78	-9.47/-5.61	-7.06/-8.16	-6.66/-8.79	-4.37/-5.96		
Θ(127.5°)	-14.77/-9.15	-6.11/-6.85	-5.86/-7.77	-7.85/-7.19	-10.62/-5.08	-6.28/-7.86	-5.41/-6.78	-7.20/-3.43	-5.57/-7.79	-9.31/5.27	-4.51/-10.42	-4.98/-4.94	-10.94/-10.91	-8.21/-10.25	-6.28/-2.93	-7.20/-3.39	-12.93/-7.37	-10.79/-11.46	-8.65/-14.90	-15.02/-8.70	-13.10/-7.81	-7.03/-13.82	-7.19/-12.61	-5.30/-6.36	
Θ(135°)	-10.53/-7.04	-5.50/-6.23	-5.36/-8.00	-10.93/-11.42	-10.00/-5.62	-10.22/-9.01	-7.75/-8.55	-8.03/-7.12	-7.33/-9.50	-10.09/-8.61	-5.02/-8.29	-6.87/-5.42	-11.21/-15.80	-14.75/-11.27	-8.35/-11.61	-10.48/-11.24	-10.82/-10.62	-10.20/-9.11	-5.40/-8.82	-16.04/-9.29	-12.55/-11.09	-10.49/-12.67	-8.08/-8.34	-3.21/-3.34	
Θ(142.5°)	-6.29/-9.36	-5.81/-6.26	-11.10/-13.15	-13.55/-15.49	-15.76/-12.44	-12.84/-10.50	-14.27/-10.97	-5.13/-9.69	-3.79/-6.17	-8.19/-7.78	-6.65/-11.20	-12.64/-8.07	-9.86/-9.28	-10.80/-8.30	-10.87/-8.85	-10.97/-10.39	-12.07/-12.83	-11.51/-9.71	-8.46/-13.04	-9.94/-11.17	-13.55/-13.04	-13.17/-13.29	-9.39/-11.58	-6.13/-4.20	
Θ(150°)	-6.29/-5.34	-6.13/-10.02	-13.79/-10.49	-12.22/-13.87	-15.16/-15.57	-12.99/-9.58	-14.71/-10.70	-6.74/-9.48	-13.69/-8.90	-8.66/-9.85	-8.13/-7.67	-8.63/-12.03	-12.75/-9.43	-10.27/-11.89	-10.85/-9.80	-12.95/-13.77	-10.81/-13.94	-15.49/-14.04	-13.02/-10.98	-10.60/-14.59	-15.60/-11.10	-12.03/-14.96	-9.95/-9.95	-9.70/-8.19	
Θ(157.5°)	-9.72/-11.68	-12.11/-11.69	-13.18/-15.02	-15.74/-12.58	-12.22/-13.39	-12.36/-13.44	-14.74/-11.90	-12.54/-15.89	-11.07/-6.68	-5.29/-7.43	-11.40/-15.29	-14.69/-10.45	-10.45/-11.02	-11.96/-12.21	-14.92/-15.58	-12.61/-11.05	-12.03/-14.79	-11.71/-10.57	-9.91/-10.38	-12.98/-15.77	-15.15/-15.35	-15.64/-15.89	-13.13/-11.44	-13.48/-10.51	
Θ(165°)	-8.22/-9.76	-10.94/-13.00	-13.02/-13.63	-12.73/-13.36	-15.61/-15.64	-13.82/-12.07	-12.41/-11.24	-11.18/-14.78	-15.08/-13.30	-10.36/-10.09	-9.48/-10.88	-12.69/-15.08	-15.05/-14.82	-14.68/-13.23	-12.68/-10.77	-10.01/-11.02	-10.94/-13.07	-10.86/-14.53	-15.87/-14.93	-15.43/-13.85	-15.27/-14.91	-15.30/-13.77	-9.37/-9.33	-11.16/-9.84	
Θ(172.5°)	-12.88/-13.58	-13.11/-12.92	-12.07/-12.67	-12.10/-13.21	-13.21/-13.68	-14.02/-12.41	-11.73/-11.52	-12.28/-13.58	-14.60/-12.29	-10.44/-10.12	-10.09/-9.33	-9.04/-11.41	-13.62/-11.05	-9.53/-9.19	-9.24/-8.80	-8.81/-8.77	-9.30/-9.96	-11.95/-13.91	-12.73/-12.54	-13.79/-15.00	-13.63/-11.49	-10.63/-10.77	-10.06/-10.17	-10.53/-11.60	
Θ(180°)	-11.58/-12.14	-12.85/-11.78	-10.52/-11.55	-12.66/-13.40	-13.65/-13.33	-13.25/-12.85	-13.22/-13.06	-14.45/-15.00	-15.67/-15.06	-15.95/-14.85	-15.85/-15.67	-15.38/-14.84	-15.03/-11.01	-15.19/-15.26	-15.87/-15.31	-15.65/-14.44	-14.06/-13.96	-14.58/-13.51	-12.83/-13.29	-15.76/-15.57	-15.90/-15.40	-15.95/-14.63	-13.58/-12.93	-13.49/-12.45	
Freq(Hz)	2.45GPol	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°)	-2.73/-2.91	-3.00/-3.13	-3.47/-3.95	-4.31/-4.36	-4.15/-3.75	-3.61/-3.83	-4.44/-4.81	-4.55/-3.76	-3.03/-2.94	-3.47/-3.88	-3.71/-3.28	-2.85/-2.81	-2.94/-3.26	-3.67/-3.87	-3.89/-3.90	-4.05/-4.26	-4.19/-3.59	-2.84/-2.67	-3.41/-4.56	-4.82/-3.80	-2.92/-2.78	-3.18/-3.43	-3.14/-2.67	-2.26/-2.49	
Θ(7.5°)	-2.69/-2.61	-2.54/-2.62	-2.99/-3.47	-3.78/-3.76	-3.49/-3.21	-3.26/-3.80	-4.70/-5.27	-4.88/-3.84	-2.86/-2.63	-3.13/-3.70	-3.77/-3.24	-2.66/-4.29	-2.64/-3.03	-3.49/-3.76	-3.88/-3.89	-4.01/-4.16	-4.05/-3.62	-3.19/-3.11	-3.75/-4.76	-5.19/-4.49	-3.64/-3.21	-3.29/-3.46	-3.29/-3.00	-2.77/-2.73	
Θ(15°)	-2.94/-2.58	-2.30/-2.24	-2.52/-2.93	-3.23/-3.19	-2.89/-2.48	-2.39/-2.91	-4.05/-5.17	-5.07/-4.01	-0.62/-2.72	-2.95/-3.30	-3.42/-3.19	-2.64/-2.15	-1.96/-1.99	-2.10/-2.19	-2.34/-2.62	-3.04/-3.31	-3.42/-3.82	-4.71/-5.70	-6.28/-6.26	-5.74/-5.19	-4.26/-3.96	-4.26/-3.63	-3.91/-3.28		
Θ(22.5°)	-2.91/-2.33	-1.84/-1.69	-2.03/-2.71	-3.30/-3.39	-2.94/-2.08	-1.52/-1.68	-2.70/-4.13	-4.76/-4.23	-3.59/-3.31	-3.13/-2.72	-2.26/-1.94	-1.70/-1.55	-1.41/-1.15	-0.90/-0.78	-0.60/-0.46	-0.50/-0.95	-1.68/-2.47	-3.33/-5.09	-6.97/-8.25	-8.65/-8.25	-7.46/-6.78	-6.34/-6.04	-5.46/-4.63	-3.90/-3.38	
Θ(30°)	-1.65/-1.07	-0.32/-0.07	-0.70/-2.05	-3.43/-0.45	-3.54/-2.22	-1.08/-0.66	-1.05/-2.23	-3.75/-4.85	-5.27/-9.41	-3.92/-6.23	-1.53/-0.96	-0.82/-1.08	-1.33/-3.13	-0.61/-1.4	0.350/81	1.000/73	0.01/-1.09	-2.88/-5.24	-7.15/-7.48	-8.51/-9.28	-8.65/-7.40	-6.29/-5.73	-5.54/-6.47	-3.28/-2.23	
Θ(37.5°)	-0.240/38	1.231/60	0.86/-0.86	-2.83/-4.12	-3.89/-2.54	-1.16/-0.39	-0.32/-1.26	-3.06/-5.58	-7.72/-7.09	-4.98/-2.92	-1.45/-0.73	-0.61/-1.11	-1.72/-1.62	-1.00/-0.24	0.78/1.83	2.442/32	1.550/06	-2.22/-4.78	-5.80/-5.51	-6.04/-7.84	-8.94/-7.80	-5.46/-3.58	-2.84/-2.70	-1.94/-0.89	
Θ(45°)	-4.07/1.03	2.002/58	2.000/47	-1.13/-2.43	-3.07/-2.66	-1.53/-0.61	-0.45/-1.34	-3.40/-6.61	-9.72/-8.18	-5.06/-2.85	-1.73/-1.45	-4.10/-1.59	-1.75/-1.56	-1.05/-0.45	0.782/35	3.303/35	2.540/95	-1.44/-4.08	-5.38/-5.40	-5.84/-7.21	-9.47/-5.73	-3.44/-1.25	-0.010/06	-0.130/09	
Θ(52.5°)	0.730/93	2.002/78	2.431/32	0.25/-1.01	-2.38/-2.94	-2.16/-1.26	-1.17/-2.11	-4.01/-6.64	-7.51/-6.21	-4.20/-2.36	-1.41/-1.45	-1.77/-1.80	-1.27/-0.71	-0.49/-0.54	0.412/12	3.223/40	2.801/45	-0.72/-3.36	-5.25/-6.17	-7.70/-9.30	-7.56/-4.59	-1.810/22	1.451/83	1.631/15	
Θ(60°)	1.090/60	1.542/44	2.271/69	1.260/22	-1.55/-3.39	-3.48/-2.52	-2.21/-2.85	-4.40/-6.42	-6.87/-5.72	-3.72/-1.71	-0.60/-0.63	-0.93/-1.08	-0.68/-0.21	-0.25/-1.00	-0.41/-1.49	2.703/36	2.731/60	-0.48/-3.19	-4.96/-5.64	-7.62/-10.07	-8.29/-4.85	-2.020/19	1.461/93	2.131/91	
Θ(67.5°)	0.920/30	0.901/78	1.621/35	1.440/79	-0.82/-3.38	-4.55/-3.37	-2.85/-3.64	-5.61/-7.51	-6.63/-4.51	-2.41/-0.68	0.160/32	-0.33/-0.24	-0.50/-0.11	-0.11/-0.51	0.391/58	2.202/35	1.990/93	-0.90/-3.32	-5.02/-5.58	-7.43/-9.24	-6.23/-3.51	-2.10/-0.14	1.301/44	1.151/22	
Θ(75°)	-0.13/-0.36	0.301/30	1.260/79	0.961/05	0.03/-2.87	-5.28/-3.67	-3.03/-3.48	-6.24/-7.06	-5.95/-3.86	-2.15/-0.84	0.200/82	0.86/-0.25	-0.860/35	0.870/34	-0.020/45	1.001/24	1.240/75								



Antenna Pattern_2G5G

Appendix G

Θ(67.5°)	1.45/1.42	1.68/0.03	5.07/2.42	-0.26/-1.27	-3.78/-4.96	-0.33/-2.67	-5.85/-1.67	0.72/-1.07	-4.67/-4.79	-4.02/-3.24	-1.45/0.07	-1.34/-1.67	1.04/0.61	1.30/0.06	1.83/-1.42	1.73/0.49	-0.18/-1.40	-0.90/0.71	1.79/2.42	2.43/1.18	-1.72/-2.95	-1.90/-0.51	-0.72/-2.75	-0.22/-1.12
Θ(75°)	1.99/2.06	1.13/-1.65	4.15/-1.34	-1.00/-1.16	-4.85/-3.99	-0.03/-2.82	-2.84/-0.95	-0.47/-1.86	-4.84/-5.46	-4.39/-2.15	-3.19/-2.22	0.02/-2.59	-0.89/-0.14	1.19/-0.86	1.57/0.12	1.57/0.54	-0.98/-4.12	-3.40/0.61	2.53/3.79	4.12/-2.48	-0.10/-0.36	0.36/-0.78	-3.15/-4.31	-0.33/-0.52
Θ(82.5°)	1.54/2.54	0.94/0.82	2.69/-0.80	-0.94/-1.97	-5.16/-2.96	-0.30/-2.76	-5.12/-1.60	-1.92/-3.99	-5.15/-5.97	-5.12/-1.53	-2.35/-3.80	-0.71/-3.06	-1.11/-1.13	1.64/-2.49	0.73/-0.26	0.64/0.20	-2.28/-5.10	-2.72/-0.39	2.12/8.81	5.03/2.01	-1.14/-0.91	-0.79/-1.39	-3.31/-6.92	-1.07/-0.21
Θ(90°)	0.50/-1.68	-0.05/0.80	0.62/-2.75	-1.32/-3.74	-4.76/-3.06	0.04/-2.76	-1.54/-3.99	-2.31/-2.99	-5.47/-4.67	-7.78/-2.60	-2.92/-3.37	-2.39/-3.00	-2.44/-1.92	1.21/-1.33	-1.06/-1.28	-0.26/-0.35	-2.99/-4.68	-3.72/-1.28	1.60/3.35	4.87/2.66	-1.99/-2.19	-1.74/-3.31	-14.64/-9.93	-1.84/-1.69
Θ(97.5°)	-0.99/0.64	-1.24/0.07	-1.16/-4.39	-1.74/-6.39	-4.36/-3.53	-1.45/-4.10	-3.23/-5.53	-3.28/-3.88	-5.05/-5.14	-6.47/-3.62	-3.76/-4.20	-2.10/-5.44	-3.51/-2.95	-0.14/-2.54	-0.93/-3.66	-1.74/-1.44	-3.35/-4.58	-4.48/-3.33	-1.10/0.64	3.25/-1.35	-1.61/-4.85	-4.20/-7.67	-12.06/-8.88	-3.04/-2.22
Θ(105°)	-2.22/-2.87	-2.43/-2.81	-3.21/-5.82	-2.04/-8.82	-5.10/-3.41	-3.51/-4.32	-5.26/-5.94	-6.70/-4.59	-5.54/-6.33	-4.26/-3.40	-4.27/-6.20	-3.40/-4.99	-5.07/-5.05	0.18/-2.99	-2.01/-3.52	-4.38/-1.25	-3.88/-3.96	-8.23/-5.46	-2.59/-3.46	-0.56/-1.48	-1.89/-11.81	-5.53/-4.34	-9.60/-10.30	-3.35/-2.67
Θ(112.5°)	-5.10/-4.60	-6.32/-4.31	-5.78/-7.58	-3.51/-10.90	-6.25/-3.59	-4.55/-4.17	-5.94/-8.94	-7.26/-5.90	-7.40/-9.89	-9.79/-4.56	-4.71/-8.58	-3.42/-6.17	-4.43/-5.86	-1.92/-3.46	-5.21/-6.30	-5.10/-3.74	-4.98/-3.52	-9.44/-4.54	-6.02/-12.11	-8.11/-4.21	-4.71/-7.75	-11.14/-13.87	-8.03/-9.75	-4.32/-5.34
Θ(120°)	-7.78/-10.22	-7.34/-7.61	-9.17/-10.25	-5.29/-12.17	-7.76/-4.19	-5.13/-4.61	-6.19/-13.49	-8.93/-6.25	-6.99/-13.08	-9.60/-4.76	-5.42/-7.02	-5.80/-6.65	-3.18/-6.38	-5.21/-4.17	-4.48/-7.64	-7.09/-5.14	-3.56/-8.70	-10.77/-3.43	-4.40/-5.31	-8.81/-2.98	-2.43/-4.50	-15.72/-15.01	-9.47/-11.46	-6.49/-8.01
Θ(127.5°)	-15.16/-9.24	-11.30/-9.74	-11.14/-8.37	-9.70/-12.72	-7.19/-6.89	-8.11/-6.02	-4.86/-10.54	-12.45/-6.26	-6.29/-6.82	-6.55/-6.72	-6.86/-5.39	-5.42/-8.19	-4.59/-11.16	-5.00/-7.12	-5.62/-4.31	-6.15/-8.31	-4.90/-9.99	-8.70/-14.02	-6.78/-8.72	-11.43/-2.49	-2.31/-13.43	-15.72/-15.55	-7.44/-14.45	-9.76/-15.17
Θ(135°)	-13.95/-10.39	-10.14/-14.20	-8.62/-5.97	-9.26/-14.47	-6.23/-5.36	-8.78/-8.39	-7.23/-11.35	-15.05/-10.38	-9.19/-8.88	-9.89/-9.96	-9.65/-7.54	-8.31/-13.07	-8.02/-10.57	-11.34/-7.30	-4.72/-7.30	-8.72/-10.42	-9.49/-4.99	-11.61/-8.30	-10.17/-10.02	-9.01/-9.63	-7.75/-13.11	-12.35/-12.85	-9.06/-15.73	-14.40/-13.18
Θ(142.5°)	-13.20/-10.22	-12.60/-11.04	-7.23/-7.70	-15.72/-9.63	-5.53/-5.16	-9.46/-9.21	-6.90/-8.95	-12.80/-12.49	-10.89/-8.85	-7.50/-5.82	-6.30/-7.73	-9.07/-8.93	-9.49/-5.66	-7.27/-11.16	-12.26/-9.95	-7.94/-8.55	-9.33/-8.73	-9.84/-14.59	-15.58/-10.40	-13.62/-11.36	-12.33/-11.08	-12.89/-13.80	-12.06/-11.70	-10.73/-11.37
Θ(150°)	-15.41/-15.20	-10.01/-10.33	-15.02/-10.76	-7.57/-5.01	-5.80/-9.22	-12.42/-12.12	-9.83/-9.11	-12.17/-15.39	-13.20/-10.34	-10.67/-9.05	-8.55/-8.15	-5.06/-4.58	-7.06/-10.40	-14.27/-9.89	-10.71/-8.64	-9.23/-12.64	-13.65/-14.89	-12.07/-14.97	-11.46/-10.90	-15.54/-12.68	-10.72/-10.78	-12.32/-12.33	-15.16/-13.27	-12.22/-13.08
Θ(157.5°)	-13.39/-12.55	-8.85/-7.41	-8.58/-9.07	-7.76/-7.45	-7.97/-11.77	-15.23/-13.49	-9.99/-8.42	-9.63/-8.42	-9.49/-11.06	-12.96/-14.88	-11.94/-11.12	-11.56/-12.51	-8.92/-7.82	-9.12/-11.74	-9.77/-11.03	-15.62/-15.44	-14.08/-10.95	-10.78/-12.79	-12.86/-11.09	-9.02/-8.31	-9.04/-12.65	-15.58/-13.42	-9.35/-7.71	-9.17/-12.70
Θ(165°)	-10.73/-8.38	-8.03/-8.53	-10.32/-13.10	-12.96/-11.51	-10.63/-10.08	-10.89/-10.77	-9.34/-7.98	-8.23/-8.20	-9.03/-7.80	-7.96/-8.56	-10.55/-10.93	-10.65/-8.86	-7.77/-8.51	-10.77/-12.82	-11.88/-13.99	-15.53/-15.43	-15.22/-15.81	-15.33/-14.61	-12.20/-10.60	-10.35/-8.47	-8.03/-6.73	-6.87/-7.67	-6.42/-7.65	-8.80/-10.99
Θ(172.5°)	-9.99/-10.27	-10.85/-10.25	-10.20/-11.36	-13.16/-14.60	-14.78/-15.32	-16.35/-15.27	-15.31/-14.18	-15.53/-15.95	-15.24/-14.80	-13.19/-10.62	-8.26/-7.78	-7.75/-6.45	-6.29/-7.65	-9.23/-11.28	-12.87/-14.42	-15.26/-14.86	-15.83/-15.23	-13.50/-10.87	-9.33/-9.91	-10.15/-8.28	-8.13/-9.33	-9.89/-10.63	-9.33/-9.85	
Θ(180°)	-13.21/-14.15	-15.59/-15.47	-16.03/-13.76	-14.74/-15.26	-15.28/-15.63	-15.46/-15.26	-16.10/-14.87	-15.35/-13.29	-12.47/-11.81	-11.79/-11.18	-11.15/-12.28	-13.71/-15.82	-14.96/-15.22	-15.23/-14.78	-13.88/-13.33	-13.54/-15.42	-15.29/-15.37	-15.32/-14.64	-14.67/-13.81	-14.05/-14.22	-14.24/-14.59	-12.95/-11.90	-13.20/-12.60	-11.15/-11.41
Freq(Hz)	5.785GPol.	TotalAnt.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-6.30/-6.11	-6.13/-6.69	-6.95/-6.24	-6.18/-6.20	-6.83/-6.48	-6.65/-6.16	-7.05/-6.56	-7.51/-7.04	-6.00/-7.98	-6.92/-7.18	-7.42/-7.41	-8.09/-7.23	-6.27/-6.49	-7.01/-7.05	-6.93/-6.82	-6.85/-6.78	-6.78/-6.53	-6.95/-6.13	-6.23/-6.56	-5.05/-6.22	-6.43/-5.14	-5.79/-5.44	-5.25/-5.90	-5.83/-6.07
Θ(7.5°)	-7.91/-7.84	-8.78/-8.95	-8.08/-7.11	-7.13/-6.88	-6.92/-6.55	-6.85/-6.04	-4.81/-5.97	-5.00/-6.43	-4.32/-4.31	-4.47/-3.33	-4.74/-4.98	-5.20/-4.99	-4.81/-5.04	-5.30/-5.50	-5.83/-6.23	-6.49/-6.68	-6.62/-7.11	-8.01/-7.18	-7.59/-7.70	-8.32/-7.91	-8.58/-9.81	-9.00/-9.66	-9.65/-9.82	-9.16/-8.81
Θ(15°)	-9.77/-9.11	-9.89/-7.82	-6.62/-6.22	-6.76/-7.23	-7.86/-7.20	-6.85/-6.20	-4.72/-3.91	-4.00/-4.21	-4.11/-3.89	-3.82/-4.64	-3.74/-4.15	-4.30/-4.55	-5.62/-4.91	-3.74/-4.15	-4.30/-4.55	-5.11/-4.99	-4.38/-3.84	-2.28/-4.41	-2.01/-1.77	-5.10/-3.02	-3.34/-4.41	-5.86/-6.20	-7.70/-9.32	
Θ(22.5°)	-3.99/-4.08	-3.88/-3.48	-3.48/-4.07	-5.39/-6.47	-6.21/-6.23	-7.20/-7.15	-6.67/-6.36	-4.82/-2.66	-3.43/-3.62	-5.10/-7.25	-6.43/-4.16	-4.84/-3.54	-2.83/-2.68	-3.75/-4.07	-3.80/-3.52	-3.61/-3.67	-3.14/-2.65	-1.99/-1.70	-1.59/-2.40	-2.57/-3.20	-3.24/-2.67	-2.59/-2.05	-1.92/-2.39	-2.86/-3.38
Θ(30°)	-1.58/-1.92	-1.53/-2.08	-0.84/-3.10	-7.02/-7.84	-6.51/-6.61	-7.88/-6.73	-6.47/-8.02	-6.19/-4.59	-3.73/-3.37	-5.08/-6.67	-9.74/-8.45	-6.32/-4.57	-3.29/-3.50	-4.31/-3.66	-4.21/-4.03	-2.94/-2.15	-2.21/-2.35	-1.15/-0.11	0.18/-0.39	0.13/-0.40	-0.09/0.91	0.60/0.31	-0.47/-1.18	-2.73/-2.39
Θ(37.5°)	-2.33/-2.57	-0.67/0.69	0.17/-2.00	-8.89/-7.28	-8.06/-6.05	-3.49/-4.32	-6.62/-7.88	-7.26/-6.43	-4.06/-3.88	-3.61/-5.74	-7.18/-7.06	-6.22/-5.53	-4.33/-2.70	-1.27/-2.78	-4.93/-4.59	-2.95/-1.24	-1.16/-1.42	0.59/-1.90	2.04/-1.41	1.50/-0.66	2.54/2.05	0.59/-0.49	-0.86/-1.15	-1.09/-1.69
Θ(45°)	-1.25/-0.76	-2.30/-0.71	1.42/0.11	-1.87/-5.16	-4.06/-2.90	-2.02/-3.03	-5.10/-3.88	-3.15/-5.28	-5.18/-3.68	-2.93/-2.78	-0.70/-0.50	-1.46/-1.42	-2.87/-1.62	0.26/-0.58	-2.70/-3.59	-1.55/-1.15	-1.99/-1.48	0.50/-1.85	1.79/2.30	3.62/4.73	5.37/6.04	3.51/-1.21	-1.08/-0.55	0.21/0.62
Θ(52.5°)	-1.28/-0.18	-1.36/0.12	2.70/0.98	-1.67/-3.48	-1.47/-4.37	-3.49/-1.05	-2.83/-2.75	-1.28/-2.54	-6.13/-5.70	-4.73/-2.79	-1.04/-1.69	1.23/0.71	-1.04/0.01	1.16/-1.10	-0.52/-0.87	-1.72/-2.05	-1.06/-0.05	2.25/2.96	3.54/4.05	3.73/2.75	2.72/2.93	2.38/-1.77	0.11/-0.90	0.07/0.71
Θ(60°)	-1.73/-0.29	0.34/-1.83	3.50/-0.37	-1.63/-2.01	-3.60/-4.88	-1.47/-0.31	-4.03/-2.50	-0.40/-2.37	-5.92/-4.12	-4.53/-3.02	-1.63/0.97	1.27/-2.25	0.39/0.62	1.94/-1.33	1.34/0.37	-1.57/-0.57	-0.22/-1.29	2.47/2.28	2.09/3.16	1.73/-1.54	-3.15/-2.92	1.73/-1.27	0.60/-3.17	-1.01/-0.01
Θ(67.5°)	-0.51/0.44	1.08/2.98	3.91/-2.17	-2.01/-1.93	-4.45/-1.90	-0.13/-1.32	-4.27/-2.65	-1.71/-4.41	-7.05/-6.25	-5.81/-3.04	-3.00/-0.21	1.02/0.37	-0.03/-1.61	2.25/-1.22	1.47/0.44	-2.01/-0.85	0.06/-1.09	1.80/2.09	1.27/-1.69	-0.52/-1.30	-2.83/-3.41	-0.89/-1.43	0.41/-2.91	-2.38/-0.15
Θ(75°)	1.03/-1.61	1.19/3.18	3.78/-2.46	-2.02/-3.30	-4.40/-8.89	-1.04/-1.06	-1.80/-2.91	-4.73/-4.80	-6.46/-9.61	-8.71/-4.30	-2.42/-1.31	1.25/0.82	-0.69/0.51	2.63/2.04	0.32/-0.01	-1.99/-2.01	-1.11/0.45	1.63/2.25	1.63/-1.83	0.02/-0.87	-1.83/-1.86	-0.14/-1.04	-0.72/-2.78	-1.93/-0.20
Θ(82.5°)	1.78/-1.61	1.33/3.09	2.53/-3.23	-2.89/-4.70	-3.00/-7.77	-1.87/-1.87	-2.08/-4.01	-4.18/-4.41	-6.19/-10.85	-11.07/-5.33	-1.81/-1.87	1.44/0.60	-1.11/-0.53	2.12/-2.13	-0.85/-1.61	-0.49/-3.33	-3.60/-1.11	1.57/-2.10	2.70/-1.69	0.06/-0.89	-3.91/-1.40	-0.82/-0.18	-4.01/-2.85	-1.33/-0.31
Θ(90°)	1.26/0.86	0.96/2.76	0.82/-5.27	-3.95/-5.60	-2.73/-0.53	-1.74/-1.99	-2.79/-7.67	-4.81/-4.41	-6.36/-10.84	-12.64/-5.59	-2.93/-3.30	-0.28/0.69	-1.74/-1.71	-0.02/-0.20	-0.02/-3.61	-0.73/-3.18	-4.45/-0.10	-0.05/-1.07	1.95/-1.26	1.50/0.96	-5.39/-2.68	-1.62/-2.27	-6.06/-3.41	-0.93/-1.13
Θ(97.5°)	-0.67/-0.53	-0.57/-1.61	-1.50/-5.68	-4.46/-5.93	-2.66/-1.34	-2.59/-3.14	-3.27/-8.22	-7.05/-5.39	-10.89/-13.82	-12.02/-5.38	-3.42/-4.74	-1.40/-1.05	-3.87/-3.17	-0.96/0.90	-2.56/-4.69	-1.64/-2.42	-4.54/-1.99	-2.21/-1.20	-0.35/-1.58	1.24/0.07	-7.36/-5.25	-3.48/-7.36	-7.31/-3.31	-0.57/-1.26
Θ(105°)	-1.78/-2.75	-1.16/-0.15	-4.91/-5.36	-4.86/-5.72	-2.25/-3.46	-2.68/-4.65	-5.01/-9.35	-9.16/-4.43	-12.62/-15.49	-14.79/-5.01	-4.83/-5.30	-5.04/-1.36	-4.41/-4.46	-3.16/-0.36	-3.32/-4.49	-4.86/-3.45	-4.82/-3.09	-5.36/-4.23	-3.70/-5.72	-0.23/-1.15	-6.74/-13.75	-7.10/-13.51	-6.65/-5.15	-1.02/-3.41
Θ(112.5°)	-4.85/-4.90	-4.26/-3.58	-9.91/-5.35	-5.75/-5.66	-2.15/-4.38	-3.66/-6.72	-10.39/-9.75	-8.28/-6.44	-12.62/-15.23	-14.51/-5.99	-3.08/-7.14	-4.15/-3.66	-6.52/-5.28	-4.79/-3.04	-2.98/-5.58	-4.97/-3.98	-6.06/-6.32	-6.80/-3.94	-5.55/-10.02	-6.93/-6.48	-5.89/-13.18	-8.21/-7.56	-8.27/-6.48	-3.41/-5.14
Θ(120°)	-8.12/-6.60	-7.09/-9.22	-14.80/-6.09	-6.43/-7.92	-2.16/-4.46	-5.33/-5.38	-11.60/-11.09	-12.21/-8.33	-6.76/-13.82	-14.9														



Antenna Pattern_2G5G

Appendix G

Θ (112.5°)	-5.23/6.33	-9.28/15.38	-13.98/13.63	-8.14/-5.11	-5.61/3.61	-4.13/-4.61	-4.34/-7.73	-8.55/-4.46	-4.92/-2.04	-1.27/3.09	-8.71/-5.37	-4.19/-6.29	-5.56/6.53	-6.15/-11.87	-8.81/-6.54	-6.47/-6.21	-8.16/-6.02	-7.37/-11.21	-3.86/-6.07	-15.36/-8.15	-6.62/-5.82	-6.79/-9.85	-9.74/-4.06	-1.60/-4.08
Θ (120°)	-4.69/-5.60	-6.76/-7.72	-10.22/-11.40	-9.23/-9.00	-6.85/-5.70	-5.58/-5.57	-4.55/-4.41	-4.91/-1.16	-5.86/-7.52	-5.98/-4.71	-8.39/-9.60	-7.23/-12.59	-8.37/-8.70	-6.67/-10.89	-12.19/-10.02	-14.04/-6.83	-8.03/-4.00	-8.76/-11.01	-5.00/-7.49	-10.27/-7.31	-4.98/-4.11	-8.36/-12.53	-11.51/-5.84	-2.89/-3.62
Θ (127.5°)	-6.42/-7.59	-6.85/-1.75	-9.74/-9.18	-7.27/-9.30	-7.17/-7.74	-10.07/-12.39	-9.80/-7.83	-6.09/-4.00	-5.64/-10.75	-13.52/-8.24	-6.84/-11.96	-10.22/-14.85	-10.72/-9.67	-7.75/-15.98	-8.01/-13.96	-7.33/-9.76	-3.21/-3.99	-10.62/-9.60	-7.06/-10.99	-11.97/-12.06	-3.93/-4.47	-7.30/-9.57	-13.01/-9.26	-7.28/-5.45
Θ (135°)	-8.12/-8.03	-5.52/-6.33	-8.19/-12.41	-12.01/-8.66	-6.18/-4.48	-7.97/-9.90	-7.62/-8.91	-10.80/-10.57	-10.70/-9.06	-8.08/-14.67	-15.26/-12.74	-14.79/-15.29	-13.71/-8.41	-6.53/-7.04	-13.38/-9.73	-7.54/-8.28	-3.43/-6.52	-13.09/-13.64	-10.06/-12.41	-11.71/-13.30	-6.84/-5.53	-8.58/-9.59	-10.96/-11.42	-10.81/-9.76
Θ (142.5°)	-14.48/-12.93	-14.17/-13.13	-10.71/-10.09	-8.89/-8.20	-10.50/-9.11	-9.37/-8.64	-5.88/-5.84	-9.11/-8.78	-9.66/-14.81	-8.71/-7.77	-12.44/-11.39	-15.39/-13.11	-12.15/-15.92	-10.67/-11.19	-13.06/-9.56	-10.62/-7.90	-5.82/-8.06	-14.12/-10.84	-6.51/-6.55	-15.12/-12.38	-10.95/-10.63	-9.62/-10.79	-11.62/-9.40	-8.46/-9.62
Θ (150°)	-11.08/-8.60	-10.70/-12.52	-11.10/-10.24	-10.06/-13.53	-12.60/-7.66	-8.05/-10.25	-6.95/-6.46	-8.38/-8.82	-9.24/-13.20	-14.39/-13.80	-13.40/-12.08	-15.19/-15.83	-13.95/-12.79	-15.16/-15.21	-10.77/-8.95	-10.67/-11.63	-13.91/-14.73	-14.56/-10.86	-8.08/-9.40	-12.56/-14.71	-14.52/-13.10	-12.90/-14.81	-15.77/-15.18	-13.58/-15.23
Θ (157.5°)	-13.58/-10.69	-9.89/-10.90	-12.81/-12.68	-13.09/-15.50	-12.20/-9.56	-9.00/-9.49	-10.25/-10.71	-14.86/-16.01	-11.55/-11.43	-13.85/-16.32	-11.56/-9.52	-10.06/-10.08	-8.88/-7.99	-8.98/-12.33	-15.22/-14.96	-15.43/-12.35	-12.28/-14.56	-13.86/-13.58	-13.81/-15.12	-10.94/-9.58	-9.19/-9.72	-9.79/-8.90	-8.37/-8.84	-10.34/-12.41
Θ (165°)	-15.80/-14.59	-15.84/-15.51	-12.56/-11.38	-11.06/-11.35	-11.45/-10.05	-9.14/-8.01	-8.20/-8.80	-10.86/-11.97	-11.35/-10.73	-11.46/-12.54	-13.21/-13.50	-11.81/-11.66	-12.91/-14.21	-15.05/-13.99	-12.26/-11.48	-11.23/-11.28	-12.48/-13.26	-12.37/-10.19	-8.63/-8.06	-8.09/-9.18	-11.22/-14.17	-15.38/-14.67	-12.63/-11.84	-11.85/-14.84
Θ (172.5°)	-13.95/-15.31	-15.45/-14.45	-12.51/-11.49	-11.26/-10.72	-10.60/-10.59	-12.42/-13.26	-13.79/-13.88	-13.69/-13.28	-12.79/-12.39	-13.51/-15.68	-15.85/-15.23	-15.41/-15.24	-14.99/-14.11	-13.95/-13.77	-13.66/-15.92	-16.46/-15.84	-15.33/-15.67	-15.17/-15.74	-15.58/-15.87	-14.65/-14.28	-13.83/-14.12	-13.83/-12.81	-11.93/-12.99	
Θ (180°)	-13.93/-13.54	-13.24/-13.46	-12.80/-14.79	-15.21/-15.55	-15.59/-15.31	-14.61/-15.55	-15.42/-15.67	-15.15/-14.96	-14.89/-14.50	-14.85/-15.36	-15.38/-15.07	-15.76/-15.04	-15.43/-15.06	-15.03/-15.16	-14.78/-14.27	-14.39/-15.62	-15.60/-14.55	-13.40/-12.40	-12.26/-11.88	-12.19/-12.27	-12.48/-12.47	-13.11/-14.33	-14.21/-13.00	-12.32/-13.40
Freq(Hz)	5.6G/Pol.	TotalAnt.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-6.00/-5.71	-6.10/-6.46	-6.32/-6.48	-6.64/-6.43	-6.05/-6.02	-6.03/-5.93	-6.11/5.34	-5.50/-5.07	-5.01/-4.65	-4.23/-4.47	-4.47/-4.56	-4.87/-4.87	-4.53/-4.53	-4.63/-4.47	-4.58/-4.55	-4.45/-4.59	-4.74/-4.80	-4.88/-5.05	-4.93/-5.16	-4.81/-4.82	-5.02/-4.96	-4.81/-5.03	-5.70/-5.92	-6.64/-6.70
Θ (7.5°)	-4.11/-4.01	-3.82/-3.88	-3.83/-3.54	-4.19/-3.90	-3.83/-3.84	-4.07/-4.46	-4.91/-4.99	-5.35/-5.56	-5.91/-5.79	-6.12/-7.00	-7.11/-8.13	-8.63/-9.05	-8.98/-9.25	-9.96/-9.78	-9.39/-8.64	-7.25/-6.32	-6.72/-6.32	-6.76/-6.25	-5.45/-5.04	-4.35/-4.07	-4.66/-4.56	-4.65/-4.73	-4.88/-4.90	-4.83/-4.53
Θ (15°)	-5.53/-5.34	-4.47/-3.88	-2.67/-1.27	-0.81/-0.39	-0.33/-0.45	-0.99/-1.73	-2.25/-3.17	-4.17/-5.78	-7.87/-9.37	-10.51/-9.67	-9.24/-9.67	-10.76/-12.03	-12.46/-12.23	-12.69/-11.48	-8.94/-7.45	-5.72/-4.48	-4.04/-4.27	-5.04/-5.45	-5.84/-6.26	-6.61/-7.06	-6.59/-9.59	-9.11/-7.93	-7.43/-6.60	-5.67/-5.52
Θ (22.5°)	-5.60/-5.46	-4.64/-3.07	-1.010.54	1.090.91	0.470.02	-0.49/-0.90	-1.09/-1.12	-1.15/-1.77	-3.46/-5.30	-6.79/-7.15	-7.27/-8.46	-11.11/-11.33	-10.05/-8.91	-9.13/-9.23	-8.62/-7.24	-6.33/-6.20	-6.18/-6.73	-7.22/-7.01	-5.88/-4.42	-3.50/-3.30	-3.55/-4.00	-4.60/-5.48	-5.97/-5.67	-4.63/-4.86
Θ (30°)	-4.97/-4.43	-3.29/-1.09	1.19/2.70	3.07/2.43	1.58/0.59	-0.29/-0.45	-0.80/-0.37	0.37/0.05	-1.12/-3.22	-5.45/-5.41	-4.43/-4.91	-7.24/-10.88	-9.60/-7.15	-6.63/-6.33	-8.41/-11.10	-9.47/-8.74	-6.61/-6.77	-9.84/-10.47	-8.63/-6.34	-4.66/-2.72	-1.10/-4.09	-0.60/-1.30	-2.25/-2.95	-3.53/-4.47
Θ (37.5°)	-1.86/-1.65	-1.78/-0.26	2.03/0.31	3.20/2.90	2.28/1.34	0.94/-0.24	1.57/1.29	0.55/-0.51	-1.74/-2.93	-3.93/-4.19	-3.50/-3.67	-6.56/-10.74	-7.50/-5.84	-5.93/-7.42	-10.86/-13.03	-9.19/-6.75	-5.49/-7.16	-8.98/-8.46	-5.78/-4.47	-4.58/-3.89	-1.710.29	0.72/0.15	-1.33/-2.27	-2.96/-2.79
Θ (45°)	1.17/-0.07	-1.36/-0.55	0.82/1.41	1.98/2.56	2.21/1.72	2.75/3.84	3.46/1.69	-0.97/-3.29	-3.84/-4.21	-2.57/-1.52	-1.10/-2.00	-6.11/-11.25	-6.21/-3.70	-4.05/-4.34	-4.47/-7.25	-4.73/-2.21	-2.98/-6.36	-9.99/-9.85	-8.24/-3.15	-1.20/-2.34	-3.67/-1.54	0.06/-0.23	-0.37/-0.41	-0.38/0.92
Θ (52.5°)	3.01/0.03	-1.35/-1.69	-0.45/-1.00	2.23/2.88	2.22/2.11	3.67/4.98	4.76/2.70	-0.04/-0.65	3.03/-0.87	-1.37/0.11	0.77/-0.82	-5.88/-16.06	-7.84/-6.48	-3.18/-1.62	-1.51/-7.55	-6.88/-2.22	-2.34/-5.73	-5.16/-6.98	-7.91/-6.01	-3.05/-0.33	-5.13/-2.62	0.75/-0.63	0.19/-1.31	3.02/4.17
Θ (60°)	2.19/-0.27	-0.23/-1.77	-0.43/1.98	3.19/3.52	1.44/-0.80	-0.04/-2.18	2.50/-0.79	-0.26/-2.50	1.61/0.87	-0.50/-2.76	2.24/1.04	-0.39/-0.75	-1.70/-4.42	-2.26/-0.06	-0.37/-9.14	-8.26/-2.37	-1.99/-3.64	-2.99/-2.16	-5.20/-7.66	-4.36/-3.31	-0.12/0.15	-0.58/0.94	3.39/4.34	
Θ (67.5°)	0.13/0.04	-0.16/-2.35	-0.14/2.69	4.09/4.62	2.76/0.46	-0.44/-0.25	-0.25/-0.35	0.62/1.09	1.31/0.63	-0.80/0.86	3.30/2.06	-2.55/-4.29	-7.53/-5.93	-1.62/0.59	0.77/-7.02	-6.84/-3.06	-2.76/-2.55	-2.32/-0.85	-2.39/-6.31	-5.12/-2.59	-2.80/-0.40	1.80/2.27	0.92/0.90	3.04/3.01
Θ (75°)	-2.15/-2.03	-1.04/-2.82	0.26/3.11	4.29/4.45	3.39/2.74	2.57/1.10	0.80/2.26	2.88/2.22	1.09/0.54	-1.50/-0.42	3.13/3.86	-1.57/-1.95	-6.57/-8.16	-12.69/-11.48	-0.49/-4.22	-4.16/-6.21	-2.60/-1.72	-2.87/0.17	-0.13/-3.42	-3.01/-0.90	-1.26/0.08	2.26/1.95	0.08/0.35	2.47/1.13
Θ (82.5°)	-3.21/-1.17	-0.29/-2.84	-0.23/0.25	1.52/8.21	2.06/2.24	2.71/0.97	1.86/0.45	3.39/1.87	-0.06/-0.44	-1.46/-0.40	2.68/3.38	-2.06/-2.03	-5.59/-6.29	-2.60/0.33	-0.98/-2.27	-1.69/-3.23	-2.51/-1.69	-3.89/0.69	1.19/-2.88	-1.15/0.33	-0.23/-0.32	1.77/1.04	-2.46/-1.25	1.94/0.15
Θ (90°)	-4.38/-2.36	-4.47/-3.34	-1.39/-0.04	1.31/0.92	0.26/0.88	1.48/-0.52	0.60/2.89	2.58/0.67	-0.69/-0.79	-2.52/-1.81	0.80/2.76	-2.45/-2.66	-5.45/-5.89	-2.90/-0.79	-2.33/-2.59	-1.98/-4.66	-3.51/-1.73	-3.15/0.50	0.65/-2.87	-0.76/-0.24	0.00/-1.30	0.56/-0.15	-4.03/-2.13	0.82/-0.67
Θ (97.5°)	-4.89/-3.78	-6.25/-4.68	-2.85/-1.65	-0.62/-1.28	-1.74/-1.24	-1.10/-3.80	-1.61/1.14	0.46/-1.72	-1.58/-1.07	-2.17/-1.97	-0.84/-1.25	-4.18/-3.40	-6.68/-5.88	-2.68/-1.88	-3.34/-3.19	-3.97/-5.81	-7.88/-3.75	-5.24/-1.38	-0.16/-4.26	-2.04/-2.39	-1.24/-3.12	-1.04/-2.41	-4.23/-2.54	-0.52/-2.24
Θ (105°)	-7.85/-5.70	-7.55/-4.76	-5.93/-5.64	-2.59/-2.05	-1.53/-0.83	-2.92/-3.02	-2.50/-4.50	-3.29/-2.54	-2.28/0.13	-4.69/-4.72	-7.51/-6.84	-3.44/-1.67	-8.54/-5.18	-5.99/-6.53	-13.47/-6.65	-5.73/-3.67	-1.99/-4.76	-4.00/-5.56	-4.26/-4.47	-3.50/-5.57	-9.25/-3.91	-1.97/-8.98	-5.53/-6.35	
Θ (112.5°)	-6.20/-6.31	-8.88/-10.14	-10.43/-10.60	-3.53/-4.39	-2.92/-1.96	-4.57/-6.18	-7.15/-6.24	-6.43/-6.56	-5.08/-4.17	-5.53/-3.81	-2.83/-1.28	-5.72/-5.56	-7.24/-6.11	-4.43/-4.30	-6.27/-6.37	-5.53/-4.58	-7.61/-6.78	-6.47/-4.14	-3.30/-4.97	-7.36/-6.03	-5.74/-6.18	-4.21/-5.66	-9.73/-6.38	-2.03/-4.24
Θ (120°)	-7.18/-6.60	-6.35/-9.63	-11.52/-12.38	-9.54/-8.27	-4.87/-3.59	-4.81/-4.60	-4.91/-4.60	-3.72/-3.49	-6.09/-9.03	-10.48/-8.77	-5.44/-5.96	-8.76/-10.53	-9.52/-8.01	-6.58/-4.30	-5.67/-6.87	-6.43/-5.71	-4.69/-4.46	-7.72/-6.68	-2.85/-5.02	-9.26/-5.02	-6.62/-6.37	-5.27/-9.39	-14.00/-11.12	-3.09/-5.65
Θ (127.5°)	-7.55/-10.63	-8.79/-7.86	-8.14/-6.53	-6.05/-9.56	-9.32/-9.34	-13.37/-10.77	-8.80/-5.16	-3.73/-4.85	-8.03/-14.99	-10.60/-16.25	-12.77/-14.47	-14.92/-13.67	-11.75/-12.49	-6.67/-6.83	-5.97/-14.77	-7.09/-8.08	-3.97/-6.14	-15.59/-9.16	-2.42/-5.65	-9.62/-4.92	-5.93/-9.28	-4.66/-5.82	-11.97/-8.98	-5.53/-6.35
Θ (135°)	-10.50/-10.94	-10.23/-7.72	-10.32/-8.26	-7.62/-9.62	-5.47/-4.46	-5.89/-7.20	-10.17/-9.30	-6.96/-9.13	-15.67/-13.32	-13.77/-10.71	-12.13/-10.46	-10.37/-11.34	-15.14/-12.94	-13.95/-8.15	-9.46/-11.21	-6.37/-7.00	-5.03/-8.84	-10.66/-9.81	-3.93/-7.24	-12.56/-8.83	-7.40/-7.80	-6.66/-5.92	-10.29/-11.35	-7.15/-8.21
Θ (142.5°)	-10.12/-9.34	-11.51/-12.33	-15.08/-12.88	-12.88/-9.22	-6.28/-6.26	-6.84/-5.84	-6.37/-6.47	-4.91/-5.88	-12.01/-14.66	-12.45/-9.46	-9.65/-9.63	-14.32/-15.10	-11.82/-11.63	-7.75/-8.08	-11.90/-11.79	-12.38/-6.74	-8.15/-15.49	-10.89/-12.22	-6.68/-11.43	-11.68/-14.56	-9.70/-8.58	-10.25/-10.09	-12.73/-15.40	-14.84/-11.87
Θ (150°)	-10.96/-13.00	-10.72/-10.68	-13.40/-14.71	-12.80/-15.14	-14.47/-9.55	-6.77/-5.57	-7.06/-11.33	-14.95/-13.67	-9.80/-9.49	-12.17/-13.38	-12.70/-15.88	-14.02/-12.91	-11.80/-11.63	-12.91/-15.05	-11.60/-8.94	-10.28/-11.52	-12.21/-12.59	-12.46/-9.62	-9.63/-10.98	-12.13/-14.77	-15.24/-13.03	-13.01/-14.67	-15.12/-15.41	-12.58/-11.01
Θ (157.5°)	-11.90/-11.61	-11.36/-11.41	-13.52/-15.75	-14.56/-15.99	-13.02/-10.08	-8.24/-8.80	-10.49/-11.76	-12.45/-11.06	-8.77/-8.33	-10.19/-11.59	-10.72/-11.14	-12.89/-13.22	-12.09/-9.96	-9.25/-9.34	-6.99/-6.00	-7.71/-9.93	-10.80/-13.00	-13.62/-10.73	-13.04/-14.96	-13.89/-15.21	-14.47/-12.66	-13.28/-1		