



Radiated Composite Gain Data_Radio 2 (4TX)

Appendix B.1

Θ(67.5°)	-11.54/-18.62	-11.66/-12.04	-12.61/-18.15	-16.65/-18.33	-8.82/-12.55	-18.26/-11.87	-16.13/-15.4	-18.54/-18.38	-16.93/-7.92	-9.28/-12.78	-13.15/-11.14	-10.57/-8.85	-14.65/-18.59	-16.29/-17.4	-10.46/-9.65	-12.89/-19.17	-10.85/-18.17	-17.88/-16.77	-18.79/-12.1	-18.74/-17.71	-16.1/-14.07	-9.59/-15.24	-14.53/-18.25	-18.76/-8.34
Θ(75°)	-18.2/-15.08	-6.55/-8.99	-10.64/-11.8	-13.62/-14.57	-11.64/-11.43	-13.7/-14.37	-17.13/-16.83	-18.82/-12.57	-12.78/-7.16	-8.88/-12.48	-12.7/-11.29	-12.4/-10.57	-13.49/-16.46	-19.4/-18.62	-10.17/-8.74	-11.22/-9.54	-13.44/-18.94	-17.55/-18.47	-14.26/-11.5	-17.82/-18.02	-19.34/-9.32	-10.26/-12.82	-11.74/-18.14	-11.83/-6.72
Θ(82.5°)	-17.68/-10.6	-6.12/-9.17	-12.43/-10.97	-13.66/-10.12	-15.62/-12.43	-12.21/-17.58	-18.65/-18.37	-14.81/-14.69	-17.83/-9.5	-10.98/-14.96	-11.19/-11.79	-14.07/-9.46	-18.85/-17.75	-18/-14.3	-11.97/-12.29	-14.21/-8.26	-14.63/-16.6	-18.9/-18.21	-14.91/-13.54	-17.44/-17.74	-18.49/-8.04	-15.43/-17.84	-12.43/-15.34	-9.92/-8.45
Θ(90°)	-17.15/-9.52	-7.2/-13.9	-18.86/-13.38	-13.59/-9.08	-18.51/-12.68	-12.72/-18	-19.05/-19.15	-13.57/-12.72	-18.32/-12.76	-15.34/-17.98	-10.33/-12.32	-13.03/-9.83	-16.04/-19.03	-17.08/-14.25	-10.43/-17.51	-18.35/-11.61	-14.23/-16.49	-14.69/-17.61	-15.4/-18.73	-17.99/-18.84	-14.81/-8.16	-18.35/-15.47	-12.78/-14.99	-10.44/-11.89
Θ(97.5°)	-15.13/-10.93	-10.53/-18.94	-18.72/-18.09	-17.93/-10.75	-18.94/-13.2	-16.31/-18.85	-18.33/-17.63	-14/-12.84	-19.32/-15.78	-18.88/-17.98	-11.81/-15.23	-13.9/-11.28	-18.62/-18.34	-19.2/-14.5	-13.01/-17.47	-17.54/-12.26	-14.24/-15.66	-18.6/-14.84	-15.88/-18.06	-18.85/-17.2	-13.3/-10.21	-19.24/-18.09	-11.97/-17.5	-11.46/-19.07
Θ(105°)	-15.54/-13.82	-12.2/-18.58	-19.36/-18.29	-18.6/-12.09	-16.17/-14.3	-18.53/-18.89	-17.67/-18.25	-13.87/-11.69	-17.67/-17.37	-17.91/-18.42	-10.97/-15.24	-17.22/-11.15	-18.49/-18.26	-18.54/-17.97	-15.55/-19.1	-19.31/-18.41	-16.55/-14.96	-15.02/-12.26	-16.22/-18.77	-18.35/-19.8	-19.63/-11.96	-16.45/-18.21	-12.44/-18.42	-14.04/-17.45
Θ(112.5°)	-14.47/-15.78	-11.77/-18.73	-19.07/-19.35	-16.47/-15.55	-18.45/-15.26	-19.37/-18.81	-18.57/-17.05	-14.5/-13.84	-18.2/-15.52	-18.32/-16.33	-10.29/-12.79	-18.26/-15.43	-18.08/-17.52	-18.67/-18.27	-17.5/-17.1	-18.54/-17.87	-11.06/-15.72	-18.09/-16.94	-13.62/-19.38	-19.09/-19.64	-12.75/-18.28	-12.87/-17.79	-12.68/-14.48	-18.25/-18.06
Θ(120°)	-13.56/-13.46	-14.62/-16.96	-19.11/-17.87	-13.51/-17.8	-19.45/-15.56	-18.97/-17.58	-17.22/-19.52	-16.23/-14.64	-18.09/-18.63	-13.01/-18.58	-10.5/-10.54	-13.46/-18.48	-17.99/-18.13	-19.37/-18.37	-19.05/-10.92	-16.96/-15.88	-11.87/-18.86	-18.33/-13.47	-15.43/-15.07	-17.77/-10.23	-18.95/-18.77	-17.52/-13.18	-12.82/-15.07	-18.13/-18.94
Θ(127.5°)	-18.71/-12.59	-14.8/-14.56	-18.71/-13.91	-10.85/-18.42	-18.83/-18.18	-19/-18.97	-18.02/-18.48	-17.45/-16.68	-16.5/-16.22	-13.86/-18.09	-12.63/-11.62	-10.34/-14.96	-18.36/-17.22	-18.33/-18.38	-17.93/-15.19	-16.76/-18.02	-14.52/-17.39	-14.99/-13.94	-17.62/-17.7	-18.39/-15.75	-18.95/-17.34	-17.97/-18.65	-18.46/-12.92	-18.41/-18.13
Θ(135°)	-14.56/-11.18	-16/-18.11	-13.7/-10.63	-15.69/-18.66	-17.53/-19.18	-17.49/-18.48	-18.27/-17.9	-16.26/-17.77	-12.36/-12.87	-12.48/-16.11	-15.61/-11.57	-9.2/-13.19	-16.08/-19.07	-19.05/-19.02	-17.76/-18.85	-17.04/-18.34	-18.63/-15.68	-13.45/-16.8	-17.52/-17.53	-18.09/-18.48	-17.47/-18.58	-18.4/-13.44	-17.43/-13.62	-17.37/-16.58
Θ(142.5°)	-17.2/-18.34	-17.26/-13.24	-9.25/-14.52	-18.4/-13.43	-13.9/-18.2	-18.41/-17.81	-13.47/-19.04	-14.46/-17.52	-12.67/-10.24	-14.47/-17.04	-18.18/-12.57	-12.1/-15.05	-17.87/-17.07	-15.47/-16.08	-15.95/-18.37	-17.97/-17.8	-18.47/-18.29	-18.92/-17.72	-17.65/-17.5	-17.2/-19.11	-17.99/-17.47	-12.03/-16.84	-15.52/-17.87	-18.16/-19.13
Θ(150°)	-18.32/-12.99	-9.72/-12.81	-17.73/-18.16	-17.67/-18.49	-17.21/-17.39	-18.39/-16.78	-10.9/-18.2	-13.23/-10.96	-17.24/-19.06	-17.71/-18.83	-18.9/-10.6	-17.78/-18.33	-18.37/-18.93	-17.4/-18.01	-18.49/-19.18	-18.85/-16.18	-15.91/-18.21	-17.39/-19.08	-16.39/-17.38	-17.62/-17.7	-14.76/-19.25	-14.76/-19.25	-19.36/-15.85	
Θ(157.5°)	-18.96/-18.74	-15.93/-15.77	-17.1/-19.35	-17.7/-18.69	-15.48/-18.1	-18.28/-13.35	-12.99/-18.68	-16.19/-12.94	-12.73/-13.32	-19.08/-15.59	-14.4/-16.74	-18.02/-18.33	-16.77/-18.55	-18.82/-18.64	-18.59/-15.51	-14.36/-18.51	-18.92/-16.21	-17.47/-17.46	-14.37/-17.7	-16.59/-15.56	-17.75/-18.72	-17.96/-16.59	-13.37/-17.22	-19.39/-17.41
Θ(165°)	-15.32/-15.45	-15.56/-15.22	-18.26/-18.97	-19.11/-19.05	-17.14/-17.77	-18.45/-16.5	-17/-18.36	-18.23/-14.92	-18.4/-18.22	-19.19/-18.11	-18.96/-18	-18.09/-17.95	-17.63/-18.91	-15.84/-15.36	-15.16/-14.89	-15.44/-17.54	-17.87/-18.01	-14.89/-17.66	-15.99/-13.15	-14.55/-19.21	-17.71/-18.47	-18.02/-18.11	-18.3/-13.64	
Θ(172.5°)	-17.62/-18.67	-18.55/-18.05	-18.03/-19.13	-18.91/-17.91	-18.46/-18.44	-17.31/-17.67	-19.09/-18.63	-18.02/-18.19	-17.42/-16.22	-15.48/-17.1	-15.3/-14.77	-15.99/-18.12	-18.85/-18.16	-19.11/-19.36	-17.97/-17.39	-17.75/-17.69	-17.13/-18.39	-18.28/-17.82	-18.89/-17.81	-15.41/-17.47	-18.17/-15.57	-14.72/-15.61	-15.1/-14.24	-14.12/-15.94
Θ(180°)	-18.67/-18.03	-19.42/-18.21	-17.26/-18.33	-18.44/-17.78	-18.96/-19.03	-17.97/-19.41	-17.72/-19.03	-17.98/-18.26	-19.3/-18.41	-18.16/-17.81	-19.4/-17.75	-17.35/-17.79	-18.38/-18.48	-18.94/-19.02	-17.61/-17.74	-17.52/-18.82	-18.92/-18.54	-17.81/-18.81	-18.93/-17.94	-19.11/-17.53	-17.62/-18.09	-17.74/-18.48	-18.87/-18.82	-17.75/-17.44
Freq[Hz]	6.175GPol.	Theta/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°)	-18.97/-18.99	-15/-10.95	-8.47/-7.39	-5.81/-4.69	-3.57/-2.9	-2.44/-1.96	-1.85/-1.97	-1.94/-2.51	-3.26/-3.8	-4.52/-5.6	-7.32/-9.9	-13.66/-16.86	-18.59/-15.38	-12.53/-9.91	-7.58/-5.85	-4.62/-3.61	-3.16/-2.35	-2.29/-2.08	-1.82/-2.02	-2.68/-2.96	-2.94/-3.4	-4.42/-6.14	-7.27/-9.18	-12.44/-16.47
Θ(7.5°)	-15.58/-13.2	-11.29/-8.83	-8.35/-8.88	-7.81/-7.42	-6.42/-6	-5.32/-4.53	-5.62/-5.93	-4.92/-5.78	-5.68/-7.97	-8.58/-9.81	-10.77/-14.16	-16.36/-23.15	-16.49/-17.34	-15.35/-13.77	-12.26/-12.08	-8.32/-6.41	-4.9/-3.64	-3.57/-3.46	-2.66/-2.57	-3.62/-4.97	-5.39/-6.11	-8.74/-12.39	-14.62/-17.41	-17.36/-19.12
Θ(15°)	-17.7/-17.46	-16.55/-13.58	-12.73/-12.76	-11.47/-11.59	-12.16/-12.25	-13.23/-13.92	-13.11/-17.84	-9.84/-11.47	-14.92/-16.06	-14.88/-18.17	-16.46/-16.28	-16.07/-15.56	-12.19/-10.34	-8.87/-8.37	-8.68/-11.15	-13.79/-15.52	-14.68/-13.01	-10.54/-8.72	-7.54/-6.77	-6.45/-6.63	-7.92/-10.27	-10.17/-10.73	-18.71/-15.73	-18.1/-16.1
Θ(22.5°)	-5.89/-5.73	-7.03/-9.66	-13.38/-18.02	-18.35/-14.3	-10.91/-9.7	-8.75/-8.16	-8.15/-7.31	-6.29/-5.61	-5.96/-7.85	-11.52/-15.63	-14.28/-11.26	-10.15/-12.38	-19.64/-19.94	-10.73/-6.36	-4.59/-4.11	-4.76/-6.1	-7.19/-8.09	-6.62/-4.56	-3.68/-4.04	-4.85/-5.31	-5.13/-5.7	-7.56/-8.34	-7.38/-5.21	-5/-6.08
Θ(30°)	-5.04/-6.34	-5.49/-4.75	-5.54/-6.1	-6.16/-7.3	-7.58/-7.16	-7.93/-10.25	-10.04/-8.7	-7.12/-6.87	-6.62/-4.59	-6.06/-10.32	-12/-17.38	-5.61/-6.51	-8.14/-10.35	-3.59/-5.06	-4.15/-4.01	-3.17/-1.55	-1.07/-2.52	-4.41/-5.25	-4.09/-3.58	-4.14/-3.29	-2.6/-3.3	-3.75/-4.18		
Θ(37.5°)	-4.56/-10.2	-13.51/-6.52	-15.74/-4.92	-2.66/-4.29	-5.42/-6.47	-7.82/-13.55	-9.35/-8.35	-1.24/-18.08	-13.23/-8.01	-7.23/-12.79	-12.13/-5.53	-5.2/-7.53	-7.62/-5.7	-4.47/-5.67	-7.13/-5.17	-3.86/-2.63	-2.16/-2.57	-2.48/-1.82	-1.07/-1.06	-1.93/-2.65	-3.85/-5.32	-3.34/-3.77	-1.61/-2.48	-2.57/-3.1
Θ(45°)	-3.85/-5.27	-8.9/-3.09	-1.15/-2.74	-1.79/-5.58	-9.55/-4.29	-8.16/-10.52	-8.97/-10.06	-4.58/-11.41	-13.97/-5.14	-4.31/-9.27	-5.61/-3.87	-5.24/-6.48	-6.21/-4.35	-1.44/-1.86	-3.22/-2.2	0.18074	-0.75/-1.82	-0.75/-0.92	-0.26/-0.82	-2.87/-2.37	-1.54/-2.09	-0.720.18	-1.07/-0.95	-0.84/-2.23
Θ(52.5°)	-1.04/-1.56	-3.81/-1.09	-0.12/-1.18	0.79/-2.08	-0.51/-5.94	-8.5/-4.61	-3.12/-5.76	0.45/-1.24	-5.42/-3.72	-3.31/-7.7	-5.14/-13.3	-3.6/-2.95	-1.62/-0.14	0.33/-1.67	-1.750.03	2.72/-44	-0.29/-3.16	-1.27/-1.39	-2.07/-3.01	-4.95/-1.78	0.03/-0.65	0.11/-2.95	-4.08/-1.75	-0.57/-0.55
Θ(60°)	2.110.49	-1.12/-1.81	-1.92/-2.59	1.210.22	1.12/-6.37	-10.56/-2.55	-1.55/-4.01	1.181.15	2.42/-2.5	-1.95/-5.88	-3.84/-0.33	0.81/-2	1.661.16	0.41/-0.81	-1.270.11	2.24/-2	-1.07/-5.76	-3.03/-2.58	-5.24/-5.8	-9.78/-9.1	-0.05/-2.32	-1.45/-7.1	-5.1/-2.28	-1.33/-1.5
Θ(67.5°)	3.38/-1.24	0.62/-0.69	-1.21/-2.82	0.350.74	2.51/-4.05	-9.33/-1.34	-0.54/-0.64	1.750.8	-1.41/-0.29	0.18/-2.59	-0.92/-2.7	3.05/-2.05	1.580.54	0.390.34	-1.05/-0.65	1.270.26	-3.03/-5.54	-2.54/-2.6	-4.65/-5.99	-9.58/-3.8	-2.86/-2.4	-1.37/-6.04	-3.87/-1.68	-1.272.23
Θ(75°)	2.32/-1.58	1.90/-98	0.24/-2.27	-0.92/-0.22	1.82/-2.21	-7.73/-1.85	1.10/-3.2	0.90/-14	-1.550.43	1.43/-0.67	-0.06/-3.19	3.24/-55	0.35/-1.13	-0.13/-1.7	-0.55/-3.17	-0.19/-2.71	-3.76/-4.35	-1.09/-1.36	-3.1/-5.79	-5.39/-1.25	-4.17/-2.66	-1.15/-5.38	-4.45/-1.77	-0.58/-6.1
Θ(82.5°)	0.211.03	2.080.86	0.17/-2.36	-2.27/-1.94	0.35/-2.98	-5.85/-2.18	0.580.1	0.01/-1.55	-1.62/-0.2	0.67/-0.98	-0.53/-2.35	2.210.18	-1.24/-2.17	-0.41/-1.52	-1.34/-1.67	-1.93/-5.14	-3.66/-3.52	-0.40/-7.1	-2.48/-6.63	-2.81/-0.76	-5.32/-2.86	-2.82/-6.24	-5.27/-2.41	-0.530.27
Θ(90°)	-2.14/-0.31	-1.29/-0.29	-1.34/-2.87	-4.15/-4.73	-0.81/-3.45	-4.73/-3.93	-0.98/-1.79	-0.77/-3.3	-2.88/-1.65	-0.87/-2.36	-2.720.65	1.01/-1.9	-2.99/-2.26	-0.62/-0.12	-3.12/-2.94	-3.1/-4.8	-4.38/-5.29	-1.47/-2.32	-3.58/-8.27	-3.76/-1.78	-7.32/-3.54	-5.46/-8.43	-7.44/-4.6	-1.61/-1.18
Θ(97.5°)	-3.91/-3.08	-0.87/-2.49	-3.83/-5.21	-6.42/-7.15	-2.36/-4.1	-4.9/-5.16	-2.2/-2.75	-2.71/-5.15	-5.54/-3.89	-2.57/-3.77	-4.31/-1.28	-0.52/-2.4	-3.51/-3.21	-1.44/-2.14	-4.48/-4.71	-3.42/-0.88	-6.81/-9.11	-5.22/-7.73	-9.68/-10.76	-6.2/-4.31	-11.28/-5.46	-8.27/-9.29	-8.05/-1.73	-3.78/-2.05
Θ(105°)	-6.79/-5.74	-3.45/-4.64	-7.08/-9.54	-8.15/-11.77	-4.91/-5.94	-8.47/-6.56	-3.23/-3.43	-4.66/-6.6	-10.04/-7.15	-3.87/-4.43	-4.72/-3.93	-2.62/-4.66	-4.19/-2.8	-3.29/-5.37	-6.15/-7.05	-4.74/-5.2	-8.45/-9.79	-7.53/-11.84	-11.66/-12.77	-12.37/-8.32	-11.21/-8.95	-8.82/-7.09	-10.96/-9.21	-6.4/-6.12
Θ(112.5°)	-8.92/-7.72	-4.83/-6	-8.09/-10.43	-10.06/-13.26	-6.7/-10.1	-10.84/-7.47	-4.71/-4.5	-5.83/-7.38																



Radiated Composite Gain Data_Radio 2 (4TX)

Appendix B.1

Θ (120°)	-18.77/-18.34	-13.74/-19.05	-18.56/-17.78	-17.72/-14.2	-16.47/-14.3	-19.03/-18.86	-16.27/-16.1	-14.7/-16.99	-15.5/-18.7	-17/-17.33	-10.04/-13.27	-12.53/-13.28	-19.05/-18.29	-13.5/-14.69	-15.13/-18.74	-18.35/-17.84	-12.19/-13.68	-16.74/-13.11	-19.33/-18.57	-18.17/-15.08	-12.13/-17.76	-15.63/-18.95	-12.45/-16.88	-15.76/-18.13
Θ (127.5°)	-14.58/-16.76	-19.01/-18.11	-18.65/-17.74	-13.77/-18.37	-16.75/-16.81	-18.51/-18.34	-14.54/-12.07	-13.53/-14.72	-16.15/-14.17	-18.75/-13.12	-10.63/-10.32	-7.85/-16.66	-17.23/-18.54	-16.72/-13.54	-17.94/-12.41	-19.27/-17.22	-13.17/-12.5	-18.32/-16.11	-17.66/-14.35	-17.71/-19.13	-19.13/-18.32	-10.12/-16.9	-13.3/-12.57	-14.63/-19.01
Θ (135°)	-17.77/-17.36	-18.75/-16.62	-18.28/-17.29	-14.39/-19	-15.29/-18.57	-18.24/-18.11	-10.9/-11.8	-5.94/-11.85	-12.04/-11.48	-12.6/-15.12	-18.44/-10.98	-8.14/-10.62	-14.32/-14.72	-17.71/-18.44	-18.86/-14.48	-12.78/-16.95	-18.85/-18.54	-16.09/-15.45	-12.39/-17.32	-15.79/-17.72	-10.02/-15.44	-18.13/-17.89	-11.69/-12.55	-13.65/-18.97
Θ (142.5°)	-18.15/-16.71	-18.06/-17.41	-12.18/-16.5	-18.19/-15.79	-17.63/-16.28	-14.35/-15.18	-10.27/-13.35	-8.65/-16.14	-10.67/-13.02	-13.79/-17.92	-18.71/-10	-8.32/-10.05	-15.8/-17.49	-12.53/-19.3	-19.06/-18.19	-13.51/-18.44	-15.26/-18.6	-18.05/-18.42	-18.39/-18.07	-17.66/-17.95	-14.95/-18.48	-16.73/-12.32	-18.72/-12.41	-11.95/-17.17
Θ (150°)	-11.64/-14.02	-10.84/-14.38	-13.14/-17.4	-18.47/-18.46	-18.99/-18.52	-17.88/-10.63	-8.65/-15.79	-11.15/-12.66	-11.78/-13.36	-18.31/-18.78	-18.54/-18.42	-13.68/-12.72	-12.22/-19.08	-18.85/-17.65	-17.74/-19.1	-18.29/-18.35	-18.13/-16.81	-18.24/-18.92	-13.93/-12.56	-19.3/-19.36	-16.14/-18.82	-16.87/-18.62	-18.36/-13.8	-18.59/-13.56
Θ (157.5°)	-18.44/-18.71	-16.33/-17.37	-16.45/-14.96	-16.64/-18.13	-14.21/-16.69	-18.23/-12.79	-12.15/-19.1	-16.24/-14.06	-15.58/-18.07	-17.68/-18.5	-18.86/-18.81	-16.95/-15.85	-18.11/-13.69	-13.94/-17.88	-18.29/-17.98	-18.73/-17.9	-19.79/-17.8	-18.38/-16.39	-13.24/-15.92	-19.07/-14.4	-18.47/-18.52	-19.16/-26	-12.25/-13.23	-15.57/-17.18
Θ (165°)	-17.71/-15.47	-15.43/-17.46	-16.92/-17.7	-15.1/-13.46	-13.31/-15.97	-18.29/-13.78	-11.75/-11.53	-15.05/-18.69	-14.04/-12.77	-13.66/-17.17	-17.77/-18	-19.72/-19.01	-18.32/-18.5	-17.88/-16.55	-18.04/-19.28	-18.91/-18.44	-17.78/-16.97	-10.46/-10.89	-16.5/-18.07	-18.29/-14.47	-15.75/-16.38	-16.64/-18.99	-18.29/-18.53	-19.02/-17.71
Θ (172.5°)	-11.74/-14.17	-15.54/-14.11	-14.54/-13.61	-12.71/-13.63	-16.43/-19.12	-18.15/-16.38	-18.11/-18.1	-17.02/-17.84	-17.08/-16.89	-18.32/-17.93	-16.95/-18.66	-18.24/-18.55	-17.69/-18.4	-18.5/-18.64	-18.72/-16.08	-19.71/-18.82	-18.02/-17.67	-18.02/-17.57	-18.65/-18.93	-17.49/-18.1	-17.43/-18.4	-14.69/-14.16	-13.21/-17.16	-10.6/-11.49
Θ (180°)	-12.48/-11.25	-11.14/-10.45	-11.29/-12.31	-12.59/-12.19	-12.15/-12.93	-13.96/-16.24	-16.38/-16.97	-17.9/-19.22	-17.23/-17.52	-18.8/-18.98	-18.6/-18.01	-17.98/-19.69	-18.95/-18.01	-19.1/-18.94	-18.99/-18.98	-18.86/-18.05	-18.16/-17.65	-15.37/-16.7	-19.1/-18.32	-18.34/-18.69	-19.07/-15.22	-15.14/-14.47	-15.09/-13.09	-11.28/-12.05
Freq(Hz)	6.995GPol.	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°)	-16.83/-14.34	-12.46/-9.98	-8.37/-7.9	-7.49/-7.1	-6.65/-6.47	-6.18/-6.44	-7.22/-7.14	-7.22/-7.71	-9.77/-10.92	-10.73/-13.93	-12.97/-18.7	-18.09/-18.15	-18.38/-16	-13.09/-11.24	-9.42/-8.7	-8.84/-7.41	-6.27/-5.5	-6.17/-5.95	-5.72/-6.08	-6.71/-7.29	-7.7/-9.13	-10.5/-12.38	-15.39/-16.89	-18.71/-18.19
Θ (7.5°)	-18.59/-17.87	-15.98/-13.55	-10.84/-9.07	-8.46/-7.09	-5.92/-5.69	-5.79/-5.65	-5.64/-4.98	-4.85/-5.28	-6.52/-6.73	-7.38/-9.13	-12.36/-16.67	-18.86/-18.18	-14.95/-11.82	-9.68/-7.72	-6.21/-6.26	-6.24/-5.58	-5.04/-4.85	-6/-6	-6.87/-7.88	-8.95/-9.43	-9.15/-9.74	-11.24/-12.85	-14.08/-15.71	-17.96/-19.19
Θ (15°)	-10.87/-10.9	-11.93/-10.75	-9.04/-8.48	-8.3/-8.83	-9.18/-9.61	-7.75/-6.36	-5.64/-6	-5.99/-5.78	-5.56/-5.92	-5.72/-6.19	-8.19/-11.74	-16.42/-17.78	-19.08/-18.49	-16.38/-11.77	-9.38/-6.57	-4.84/-3.1	-2.31/-2.8	-3.61/-4.52	-4.82/-6.13	-7.92/-8.03	-7.08/-6.56	-6.86/-6.2	-6.82/-9.5	-11.84/-10.64
Θ (22.5°)	-10.06/-10.82	-11.68/-14.31	-12.92/-9.12	-7.72/-7.24	-9.44/-16.7	-19.07/-11.31	-9.76/-12.49	-14.24/-14.99	-14.24/-9.96	-7.2/-6.35	-8.62/-11.12	-11.38/-12	-11.16/-11.29	-10.64/-9.15	-9.76/-9.44	-6.5/-4.3	-2.62/-2.38	-2.64/-2.47	-2.89/-3.4	-4.23/-4.8	-4.85/-4.18	-3.98/-3.7	-3.9/-6.1	-8.62/-9.33
Θ (30°)	-5.94/-5.4	-5.4/-5.8	-6.67/-6.84	-10.09/-17.53	-16.53/-12.42	-7.92/-6.12	-5.99/-6.76	-7.11/-7.08	-9.32/-12.69	-9.18/-6.55	-9.67/-16.65	-11.23/-8.31	-6.77/-7.36	-7.67/-5.97	-3.42/-2.1	-0.680/22	-0.56/-0.28	-0.55/-2.53	-5.16/-6.14	-7.05/-8.13	-5.19/-1.35	-1.58/-4.6	-7.92/-7.84	-6.22/-6
Θ (37.5°)	-2.87/-4.01	-4.98/-6.12	-6.59/-517	-7.04/-9.43	-7.53/-8.8	-7.4/-4.8	-5.54/-8.02	-7.58/-0.45	-5.2/-12.35	-10.24/-10.9	-16.46/-10.77	-12.14/-8.07	-7.78/-7.04	-8.27/-7.43	-2.39/-6.05	0.22/-0.76	-2.91/-1.48	-2.19/-5.84	-9.57/-8.88	-5.54/-3.48	-0.812/-14	1.06/-3.12	-4.77/-4.18	-4.04/-2.6
Θ (45°)	-0.82/-2.29	-3.74/-5.77	-9.48/-5.29	-10.09/-5.94	-2.52/-3.54	-10.04/-5.41	-6.67/-11.05	-10.89/-5.59	-12.15/-6.89	-9.52/-6.13	-8.67/-7.46	-4.75/-3.48	-3.03/-2.93	-2.05/-3.44	-3.89/-1.25	-0.40/-0.72	-2.72/-2.12	-7.41/-7.53	-5.52/-5.36	-2.23/-3.57	-3.79/-1.46	-1.07/-3.12	-4.69/-2.8	-0.18/-0.38
Θ (52.5°)	-1.53/-1.24	-2.28/-1.82	-3.75/-0.86	-5.55/-6.8	-3.54/-3.82	-6.04/-13.83	-14.370/94	-1.34/-3.61	-1.36/-3.88	-4.7/-2.71	-2.27/-0.29	-0.04/-2.17	-3.34/-1.71	0.990/47	-2.59/-1.7	-0.26/-1.6	-2.110/52	-4.41/-4.4	-2.74/-4.03	-3.05/-5	-2.340/87	0.82/-1.95	-3.68/-1.26	1.42/-0.15
Θ (60°)	0.571/59	-0.130/02	-0.691/75	-2.33/-3.13	-1.79/-3.58	-3.06/-8.41	-2.515/-24	2.861/052	0.2/-3.18	-5.53/-2.33	-0.493/05	2.08/-1.34	-2.23/-3.08	1.612/72	0.47/-0.56	-0.79/-3.53	-4.58/-0.16	-3.88/-3.71	-5.04/-7.59	-6.83/-6.75	-2.22/-1.1	0.3/-1.36	-4.84/-1.01	-0.22/-1.85
Θ (67.5°)	2.082/57	1.181/43	0.072/34	-2.39/-1.15	-2.02/-1.74	-4.02/-3.76	1.905/81	3.240/79	0.85/-0.85	-3.40/-6.4	0.350/44	3.031/41	0.641/69	1.962/96	1.231/06	-6.46/-5.26	-2.47/-1.78	-6.02/-8.8	-2.27/-1.04	-1.31/-2.76	-5.64/-0.2	-5.18/-4.01		
Θ (75°)	2.131/58	1.072/64	1.742/03	-1.81/-1.69	-1.10/31	-10.71/-1.45	3.254/93	0.370/3	1.050/74	0.471/07	1.312/41	3.442/66	2.071/59	1.661/9	1.311/62	1.64/-1.22	-8.16/-2.67	-0.05/-0.09	-3.77/-1.99	-1.68/-6.51	-3.06/-2.98	-0.85/-4.04	-2.050/73	-7.55/-4.89
Θ (82.5°)	1.080/22	0.112/24	1.620/34	-3.87/-3.15	-2.12/-1.23	-8.79/-0.91	2.643/89	-0.23/-0.71	0.171/74	1.490/84	1.451/98	2.932/68	1.120/71	0.050/58	0.460/7	1.11/-2.2	-9.34/-2.75	1.21/-0.45	-2.45/-1.11	-0.37/-3.72	-2.35/-4.15	-1.05/-5.11	-0.8/-0.34	-6.93/-4.53
Θ (90°)	-1.26/-1.44	-0.568/01	0.866/-1.6	-7.59/-4.23	-8.84/-3.29	-8.28/-2.29	-0.261/-45	-0.65/-3.23	-0.750/76	0.59/-0.42	-0.321/19	2.271/56	-0.44/-0.44	-0.98/-2.28	-1.64/-0.75	-0.50/-3.14	-9.75/-4.55	-0.1/-2.02	-5.07/-3.88	-0.56/-2.45	-4.3/-4.7	-1.51/-4.95	-0.95/-1.82	-8.34/-9.5
Θ (97.5°)	-3.75/-2.6	-1.17/-0.09	-1.22/-5.47	-16.45/-4.63	-3.39/-6.06	-9.99/-4.99	-3.5/-0.9	-2.03/-6.34	-3.07/-0.69	-1.71/-2.81	-1.94/-1.01	0.64/-0.14	-3.14/-2.1	-3.7/-4.19	-4.72/-3.53	-1.91/-4.58	-9.05/-6.33	-3.2/-6.27	-8.63/-8.33	-3.6/-4.14	-11.11/-6.97	-3.35/-3.89	-2.87/-5.66	-13.23/-6.5
Θ (105°)	-7.21/-4.75	-3.11/-2.76	-4.61/-6.89	-17.84/-5.64	-5.52/-7.95	-13.94/-9.59	-2.82/-1.71	-5.84/-7.12	-5.41/-3.46	-5.38/-4.48	-4.73/-3.64	-3.85/-3.53	-6.53/-8.49	-10.86/-6.09	-2.48/-1.64	-10.27/-8.44	-6.78/-1.41	-8.43/-11.68	-8.37/-3.43	-18.56/-9.41	-5.79/-5.64	-6.75/-13.85	-14.07/-10.89	
Θ (112.5°)	-14.12/-6.62	-4.21/-5.51	-8.06/-9.58	-17.46/-7.47	-9.84/-9.91	-15.01/-9.95	-3.65/-3.15	-8.39/-7.61	-13.7/-6.38	-8.36/-5.67	-4.316/-5.21	-4.56/-6.49	-9.26/-11.14	-17.27/-13.33	-17.14/-6.02	-10.67/-6.47	-6.21/-8.28	-3.37/-0.96	-7.09/-9.55	-18.26/-4.88	-6.39/-8.29	-6.07/-16.83	-10.12/-10.58	
Θ (120°)	-14.5/-9.58	-5.79/-6.64	-9.45/-16.41	-16.37/-9.35	-8.45/-13.99	-12.12/-5.86	-7.16/-6.64	-10.38/-14.12	-13.45/-13.11	-9.09/-4.56	-5.6/-5.29	-7.04/-10.9	-7.03/-6.28	-10.15/-9.96	-11.97/-18.13	-16.09/-10.3	-17.82/-11.45	-8.74/-10.04	-16.12/-12.62	-9.84/-10.94	-10.4/-8.56	-7.05/-8.15	-8.52/-16.4	-11.69/-9.63
Θ (127.5°)	-13.13/-14.41	-8.98/-8.23	-12.95/-17.99	-18.23/-10.25	-10.16/-19.21	-13.96/-5.63	-8.75/-9.1	-11.89/-15.67	-11.15/-18.16	-10.69/-4.4	-3.78/-6.43	-15.33/-13.48	-12.18/-17.16	-16.13/-9.79	-13.11/-14.44	-15.07/-10.71	-14.12/-13.15	-9.37/-15.62	-17.65/-6.99	-12.53/-9.95	-8.71/-18.07	-17.45/-7.42	-11.28/-15.39	-18.56/-18.04
Θ (135°)	-12.93/-11.46	-10.06/-15.79	-17.63/-15.12	-13.21/-10.16	-9.58/-17.39	-8.69/-5.38	-10.1/-12.54	-12.51/-14.85	-18.54/-10.1	-8.43/-8.83	-6.42/-7.43	-12.51/-11.98	-11.33/-14.42	-18.27/-18.51	-13.93/-11.24	-18.69/-11.39	-19.27/-18.51	-8.85/-13.6	-18.97/-11.2	-17.28/-18.91	-8.25/-17.57	-11.42/-9.44	-18.81/-18.98	-17.53/-19.09
Θ (142.5°)	-16.83/-16.5	-17.17/-16.11	-18.97/-12.98	-7.29/-10.9	-18.08/-15.84	-1.519/-9.47	-12.87/-15.2	-11.67/-16.83	-14.42/-14.54	-9.29/-7.37	-11.14/-14.85	-13.73/-12.54	-14.11/-13.15	-16.45/-14.83	-14.03/-14.37	-14.41/-18.85	-17.68/-18.23	-19.18/-17.87	-16.68/-10.35	-15.64/-18.53	-12.78/-8.36	-14.49/-15.14	-15.51/-18.01	-17.31/-17.26
Θ (150°)	-18.44/-18.73	-18.52/-16.32	-11.22/-9.48	-15.09/-18.6	-14.37/-13.01	-11.31/-11.44	-11.43/-15.28	-14.12/-12.28	-14.52/-13.65	-12.82/-15.17	-15.95/-14.04	-18.42/-17.97	-19.19/-15.41	-13.12/-13.78	-12.89/-14.45	-18.1/-16.19	-18.09/-18.94	-18.53/-19.3	-18.97/-17.64	-16.17/-17.75	-17.35/-13.69	-16.32/-17.92	-11.52/-12	-18.95/-18.42
Θ (157.5°)	-17.56/-18.82	-18.71/-18.54	-18.59/-18.97	-14.52/-13.64	-13.42/-10.64	-13.74/-9.49	-8.93/-8.86	-13.27/-18.48	-19.24/-18.87	-16.91/-17.15	-17.38/-17.47	-19.67/-17.59	-17.55/-14.92	-17.27/-16.46	-14.72/-13.75	-17.41/-13.84	-17.25/-19.5	-18.47/-14.89	-17.18/-17.93	-15.18/-18.3	-19.13/-15.65	-14.43/-18.97	-17.49/-19.03	-14.54/-14.45
Θ (165°)	-17.8/-18.15	-17.42/-16.16	-17.19/-13.37	-17.49/-18.56	-13.36/-10.06	-8.93/-8.38	-8.43/-8.03	-8.77/-10.8	-14.81/-18.45	-17.96/-17.78	-17.7/-16.73	-16.27/-17.45	-18.12/-14.											



Radiated Composite Gain Data_Radio 2 (4TX)

Appendix B.1

Θ (172.5°)	-15.23/-14.85	-14.16/-14.38	-16.22/-19.32	-17.51/-18.69	-15.97/-14.35	-12.64/-11.99	-12.37/-13.51	-16.39/-18.33	-16.73/-14.53	-12.48/-12.23	-12.74/-13.82	-16.58/-17.55	-14.61/-13.71	-14.02/-15.73	-18.59/-18.76	-18.46/-18.31	-17.47/-17.76	-18.23/-17.56	-18.49/-18.02	-18.02/-18.43	-18.37/-19.66	-18.11/-19.04	-19.09/-18.76	-18.36/-16.36
Θ (180°)	-18.61/-18.39	-18.91/-18.19	-18.28/-18.52	-17.95/-14.8	-13.8/-14.1	-14.53/-14.4	-14.73/-14.76	-14.91/-15.73	-15.76/-14.86	-15.57/-16.26	-18.4/-19.08	-17.77/-17.8	-18.14/-18.16	-17.91/-17.94	-16.67/-15.83	-16.91/-17.24	-16.34/-15.06	-14.53/-14.53	-14.59/-15.96	-15.84/-15.48	-14.03/-13.34	-13.82/-14.54	-15.35/-16.79	-18.47/-18.36
Freq(Hz)	6.175GPol.	Theta/Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-8.97/-7.17	-6.09/-5.97	-5.62/-5.43	-5.71/-5.62	-5.77/-6.27	-6.9/-7.73	-8.87/-10.1	-11.27/-12.71	-13.22/-13.91	-13.31/-12	-10.74/-9.74	-8.74/-7.79	-7.09/-6.62	-6.11/-5.62	-5.17/-5.27	-5.24/-9.6	-4.99/-5.01	-5.11/-5.11	-5.89/-6.57	-7.49/-8.53	-9.9/-10.89	-11.57/-12.68	-13.05/-12.05	-11.08/-9.81
Θ (7.5°)	-10.21/-8.02	-6.65/-5.74	-4.85/-4.19	-3.87/-3.39	-3.47/-3.59	-3.67/-3.88	-4.46/-4.94	-5.64/-6.84	-6.79/-9.61	-6.37/-13.47	-12.19/-10.74	-9.74/-9.48	-9.21/-8.96	-9.87/-10.46	-11.12/-12.3	-14.66/-17.69	-18.04/-18.47	-17.21/-15.29	-14.41/-14.04	-13.29/-12.71	-12.94/-12.31	-	-	-
Θ (15°)	-13.39/-11.19	-8.94/-8.49	-8.43/-9.41	-9.16/-9.04	-8.43/-8.27	-8.45/-8.4	-8.2/-8.34	-8.18/-8.89	-9.24/-10.67	-10.99/-11.86	-12.85/-14.52	-14.71/-16.95	-18.14/-18.35	-19.43/-18.06	-17.26/-14.6	-14.78/-14.48	-14.19/-12.77	-12.61/-13.85	-14.59/-16.37	-18.35/-18.34	-18.01/-18.26	-16.75/-14.06	-13.59/-14.67	-17.31/-16.67
Θ (22.5°)	-9.49/-9.32	-7.62/-6.97	-7.88/-8.41	-8.5/-7.37	-6.15/-5.45	-5.12/-5.02	-5.1/-4.79	-4.49/-4.66	-5.65/-8.42	-14.56/-19.11	-17.93/-17.82	-18.44/-17.07	-14.77/-13.64	-16.41/-18.27	-18.44/-15.36	-14.69/-11.1	-8.49/-6.92	-6.38/-7.01	-7.19/-7.63	-8.1/-129	-19.37/-17.15	-18.64/-15.38	-10.53/-8.64	-7.84/-8.64
Θ (30°)	-3.1/-4.65	-5.63/-5.83	-4.98/-4.04	-3.99/-5.39	-6.25/-5.72	-3.9/-1.93	-1.55/-1.71	-1.28/-0.78	-1.02/-2.91	-6.08/-9	-9.47/-9.86	-10.73/-13.03	-15.61/-15.02	-12.81/-13.56	-14.36/-9.87	-8/-9.21	-12.73/-11.46	-9.01/-8.15	-10.64/-17.05	-13.09/-9.59	-8.24/-6.8	-7.07/-7.33	-5.03/-3.95	-3.6/-2.97
Θ (37.5°)	-0.72/-0.72	-1.82/-3	-4.37/-2.48	-3.09/-4.84	-3.27/-2.12	-2.02/-2.04	-2.51/-2.6	-1.98/-1.73	-2.9/-3.14	-3.42/-5.17	-7.78/-10.81	-14.37/-10.7	-1.05/-12.22	-14.8/-16.54	-13.12/-6.54	-6.64/-12.57	-17.03/-13.81	-6.89/-8.29	-8.92/-8.16	-9.24/-8.36	-6.38/-3.88	-4.02/-6.47	-5.07/-3.62	-3.34/-2.1
Θ (45°)	-2.290-29	1.410-28	-2.84/-1.17	-1.85/-2.75	-0.91/-0.73	-0.17/-0.96	-3.8/-2.77	-1.10	-0.63/-1.26	-2.92/-6.39	-7.04/-5.36	-7.02/-5.55	-4.7/-13.58	-13.91/-18.04	-13.39/-4.45	-3.91/-7.3	-14.59/-6.68	-3.57/-6.17	-3.7/-1.94	-5.61/-9.2	-9.2/-3.26	-1.81/-3.57	-1.82/-1.24	-1.01/-2.26
Θ (52.5°)	-2.1/-1.6	-0.840-61	-1.630-42	1.490-47	1.39/-6.04	-3.28/-3.17	-4.38/-2.84	-1.860-18	1.111-95	-1.02/-6.44	-5.63/-1.12	-0.21/-1.13	-0.38/-2.31	-6.01/-5.84	-10.34/-4.2	-4.51/-4.25	-5.57/-1.64	-3.24/-8.56	-3.24/-2.45	-9.17/-8.38	-7.93/-3.89	-8.02/-1.11	-0.09/-1.58	-1.11/-1.72
Θ (60°)	-1.13/-3.11	-2.80/-66	-1.5/-0.81	2.760/-08	-1/-5.35	-4.68/-3.73	-3.2/-0.59	-1.060-34	0.111-95	0.53/-3.51	-5.73/-0.68	1.250-39	0.041-54	1.6/-0.4	-4.36/-3.62	-6.95/-3.87	-4.390-02	-1.54/-8.04	-3.53/-2.53	-8.77/-6.35	-3.21/-1.86	-0.35/-1.36	-0.18/-1.95	-1.91/-1.07
Θ (67.5°)	-1.41/-1.79	-2.66/-0.24	-1.26/-1.73	1.98/-0.73	-1.8/-2.08	-3.28/-0.54	-0.621-75	0.440-64	1.141-44	1.37/-0.29	-3.31/-1.65	-0.12/-0.39	-2.060-85	1.890-81	-1.97/-1.82	-6.74/-2.92	-8.850-12	-0.7/-5.76	-1.2/-0.81	-4.94/-2.63	0.321/-17	1.03/-0.47	0.45/-1.08	-1.02/-0.24
Θ (75°)	-2.43/-67	-4.08/-3.03	-1.79/-2.37	0.03/-3.84	-2.24/-1.69	-1.78/-3.61	0.52-99	1.510-15	-1.610-86	1.890-47	-2.01/-0.39	-1.34/-0.38	-2.91/-2.02	-0.78/-0.17	-6.18/-3.31	-4.21/-2.92	-0.71/-2.91	0.070-82	-3.1/-0.01	2.293-06	1.12/-0.41	0.730-12	-0.60-73	-
Θ (82.5°)	-3.59/-1.45	-4.41/-5.06	-1.89/-2.24	-1.71/-5.95	-3.05/-2.33	-2.21/-2.78	-0.032-7	1.36/-0.53	-2.130-77	1.32/-0.25	-2.81/-4.16	-2.6/-1.1	-2.61/-5.55	-3.93/-1.6	-0.7/-2	-9.09/-4.53	-3.7/-4.2	-1.31/-2.86	0.31/-0.31	-2.560-95	2.91/-3.54	0.38/-1.69	-1.01/-0.27	-1.580-45
Θ (90°)	-4.54/-347	-6.83/-82	-3.67/-327	-3.39/-6.86	-4.04/-4.66	-5.43/-3.89	-2.930-75	-4.74/-1.95	-2.62/-0.37	0.85/-1.89	-4.03/-5.37	-5.37/-2.63	-2.05/-9.1	-6.14/-3.23	-1.64/-3.08	-8.67/-5.5	-5.43/-3.88	-3/-2.3	-4.17/-0.34	1.3801-74	-4.9/-2.63	-2.85/-0.64	-2.51/-0.67	-
Θ (97.5°)	-6.35/-5.93	-7.21/-10.02	-5.38/-5.98	-4.6/-8.66	-6.28/-7.16	-7.1/-5.08	-5.59/-1.97	-4.2/-4.32	-3.96/-1.91	-0.7/-4.59	-7.94/-6.07	-7.14/-0.2	-3.31/-11	-9.41/-5.06	-4.09/-5.92	-12.48/-3.81	-5.81/-8.55	-12.01/-8.55	-6.84/-5.78	-8.92/-3.85	-0.97/-1.6	-6/-5.43	-3.42/-2.34	-3.32/-2.89
Θ (105°)	-8.31/-6.42	-7.46/-10.07	8.72/-10.23	-6.44/-10.88	-7.78/-9.28	-6.52/-7.56	-8.52/-5.26	-6.91/-5.86	-3.58/-4.87	-2.82/-7.65	-10.55/-9.54	-9.08/-5.97	-4.39/-8.54	-16.3/-9.23	-6.73/-6.14	-9.88/-12.43	-6.36/-8.25	-14.28/-12.41	-9.69/-6.39	-12.23/-8.83	-5.53/-5.54	-7.1/-7	-3.88/-6.43	-6.71/-6.25
Θ (112.5°)	-12.73/-8.84	-10.72/-13.02	-9.51/-9.46	-5.9/-9.8	-15.05/-9.42	-7.81/-15.1	-11.77/-6.69	-7.64/-6.01	-6.22/-7.6	-5.34/-10.13	-11.65/-10.29	-10.58/-6.62	-4.63/-9	-14.06/-13.28	-6.39/-8.06	-7.49/-11.36	-11.47/-8.93	-9.31/-14.71	-9.93/-4.78	-12.78/-8.23	-5.92/-4.79	-8.24/-12.04	-8.17/-8.11	-7.82/-9.57
Θ (120°)	-17.9/-13.59	-12.22/-13.43	-9.48/-10.94	-11.87/-11.12	-10.61/-12.85	-10.29/-12.09	-13.95/-8.45	-8.28/-9.74	-9.21/-12.61	-8.17/-15.51	-14.55/-17.94	-12.86/-13.19	-7.76/-7.36	-11.46/-19.16	-13.11/-9.88	-15.48/-17.73	-17.73/-18.57	-15.34/-6.47	-15.99/-2.22	-10.75/-8.46	-8.74/-17.54	-17.04/-2.78	-10.01/-13.41	-
Θ (127.5°)	-18.47/-11.8	-10.77/-13.63	-12.06/-13.54	-16.56/-8.7	-8.04/-9.83	-10.38/-10.99	-16.82/-8.4	-7.01/-12.8	-8.85/-19.26	-11.16/-18.32	-18.16/-17.01	-15.92/-15.03	-10.29/-8.83	-7.92/-16.96	-18.38/-9.29	-9.36/-8.28	-7.13/-18.02	-11.24/-16.52	-14.98/-5.58	-18.09/-18.84	-17.35/-15.58	-11.77/-15.24	-12.22/-6.02	-11.23/-16.46
Θ (135°)	-18.62/-17.9	-15.26/-16.38	-18.09/-12.16	-11.74/-11.66	-12.54/-11.31	-9.53/-10.38	-12.92/-10.12	-6.32/-13.54	-19.13/-15.55	-11.24/-15.34	-16.27/-18.47	-18.54/-14.34	-11.02/-9.16	-10.36/-15.11	-9.73/-15.74	-8.82/-18.12	-15.17/-11.98	-11.88/-14.2	-10.49/-6.48	-11.62/-15.95	-14.49/-11.07	-17.97/-17.88	-11.99/-9.39	-7.85/-19.24
Θ (142.5°)	-16.06/-10.19	-10.74/-13.58	-19.32/-14.51	-11.38/-14.51	-12.56/-16.94	-13.89/-10.92	-11.34/-13.21	-11.61/-11.28	-14.36/-17.29	-15.15/-13.76	-16.01/-16.04	-16.06/-15.92	-11.07/-8.38	-17.03/-10.66	-13.11/-16.43	-19.44/-13.55	-19.44/-19.01	-18.33/-12.87	-15.97/-18.02	-18.89/-15.17	-13.71/-17.71	-10.99/-15.1	-8.42/-12.74	-
Θ (150°)	-16.72/-16.9	-13.18/-15.53	-14.9/-11.14	-9.67/-14.86	-18.51/-17.93	-18.37/-16.06	-14.24/-13.84	-13.92/-12.78	-12.09/-14.27	-14.78/-12.67	-14.35/-18.51	-18.95/-18.41	-11.17/-8.41	-9.99/-10.99	-11.16/-12.32	-15.99/-18.46	-18.75/-18.38	-17.69/-19.3	-14/-11.76	-12.99/-19.03	-16.72/-15.88	-17.57/-19.05	-18.82/-17.21	-18.41/-18.57
Θ (157.5°)	-17.67/-19.45	-18.3/-14.45	-13.45/-18.48	-15.72/-15.19	-16.98/-17.56	-15.93/-13.99	-16.96/-13.64	-11.05/-4.07	-10.62/-10.76	-13.24/-15.94	-18.02/-18.14	-17.1/-16.63	-15.96/-13.77	-17.64/-17.72	-12.03/-12.47	-14.11/-16.49	-19.06/-19.09	-18.74/-16.6	-17.05/-17.41	-18.64/-18.89	-15.89/-14.78	-15.91/-18.23	-18.65/-17.81	-
Θ (165°)	-18.79/-18.62	-18.76/-19.52	-17.11/-15.03	-13.16/-12.81	-15.15/-15.28	-16.58/-16.33	-16.52/-16.27	-14.65/-12.73	-10.58/-10.48	-12.07/-13.79	-16.22/-18.76	-17.77/-19.11	-18.94/-13.08	-14.33/-14.66	-13.11/-16.43	-19.44/-13.55	-19.44/-19.01	-18.33/-12.87	-15.97/-18.02	-18.89/-15.17	-13.95/-19.15	-13.43/-11.72	-14.98/-17.83	-
Θ (172.5°)	-19.85/-19.1	-18.36/-18.11	-18.39/-18.07	-17.45/-17.98	-18.93/-18.88	-17.89/-17.08	-15.54/-14.88	-14.04/-14.32	-14.88/-19.41	-18.59/-18.64	-17.35/-18.3	-16.54/-19.21	-17.49/-18.04	-18.31/-18.25	-18.22/-17.32	-15.65/-16.02	-18.64/-19.35	-18.68/-19.2	-17.07/-15.1	-12.39/-13.26	-14.39/-17.96	-18.47/-17.21	-17.91/-17.68	-18.39/-19.37
Θ (180°)	-11.25/-11.38	-10.7/-10.29	-11.09/-13.31	-13.8/-14.5	-17.01/-18.82	-18.17/-18.68	-17.29/-17.63	-18.26/-17.3	-18.5/-19.23	-18.42/-17.51	-14.88/-13.14	-12.57/-12.56	-12.62/-12.89	-13.2/-14.53	-15.39/-16.2	-19.62/-19.14	-18.96/-18.36	-16.88/-17.08	-18.53/-18.89	-18.76/-18.98	-17.65/-17.98	-16.34/-14.11	-12.54/-12.15	-11.16/-11.32
Freq(Hz)	6.475GPol.	Phi/Ant. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-6.89/-7.4	-6.88/-10.63	-13.49/-18.78	-17.68/-18.62	-14.85/-11.79	-9.49/-8.18	-7.13/-6.15	-5.42/-5.14	-4.82/-4.94	-5.1/-4.78	-4.82/-4.89	-5.04/-5.8	-6.46/-7.93	-9.21/-10.41	-12.14/-14.81	-18.07/-17.69	-15.49/-13.06	-11.04/-9.01	-7.32/-9.59	-5.26/-9.44	-4.23/-3.67	-3.45/-3.29	-4.28/-1.57	-5.43/-0.64
Θ (7.5°)	-6.47/-5.67	-4.99/-5.02	-5.61/-6.47	-7.77/-9.29	-11.27/-12.57	-11.89/-10.07	-8.26/-6.72	-5.69/-4.94	-4.46/-4.14	-4.31/-4.53	-4.67/-4.51	-6.24/-7.47	-8.44/-10.1	-12.04/-13.57	-15.51/-17.16	-19.19/-18.66	-18.42/-15.91	-13.91/-11.92	-9.74/-8.28	-7.2/-6.25	-5.33/-4.93	-4.77/-5.51	-6.08/-7.11	-8.17/-7.29
Θ (15°)	-10.43/-8.41	-6.68/-5.89	-5.64/-5.73	-6.87/-8.25	-10.12/-12.75	-16.3/-18.4	-18.9/-12.86	-9.67/-7.42	-5.64/-4.6	-5.64/-5.26	-5.22/-5.77	-5.25/-5.24	-5.85/-7.15	-9.84/-10	-9.99/-11.09	-13.95/-17.96	-17.48/-17.8	-17.63/-12.98	-9/-7.35	-6.03/-4.78	-3.99/-3.88	-3.95/-4.74	-6.58/-9.38	-14.11/-12.81
Θ (22.5°)	-6.83/-6.45	-8.23/-11.32	-12.63/-11.16	-																				



Radiated Composite Gain Data_Radio 2 (4TX)

Appendix B.1

Θ(22.5°)	-4.66/6.4	-6.17/5.39	-4.48/4.37	-5.22/6.27	-5.33/3.56	-2.26/1.42	-1.96/2.49	-3.32/4.69	-6.85/7.18	-5.54/5.9	-8.55/10.17	-10.17/-11.22	-13.89/13.32	-10.64/8.44	-6.81/6.68	-6.49/8.76	-12.11/-17.09	-17.44/-17.78	-13.48/-11.56	-9.74/8.49	-8.29/8.34	-8.61/8.66	-8.35/6.74	-4.54/10.02
Θ(30°)	-2.77/-3.56	-3.42/-4.16	-4.64/-3.34	-2.55/-3.79	-4.55/-2.89	-1.49/-2.45	-4.16/-3.82	-2.87/-2.66	-2.54/-3.4	-2.65/-4.02	-9.65/-14.49	-15.03/-18.94	-16.42/-12.47	-12.02/-12.16	-12.24/-11.43	-9.56/-7.14	-4.91/-6.09	-8.14/-5.71	-4.93/-6.12	-8.03/-9.43	-9.44/-6.81	-3.31/-1.95	-2.72/-3.07	-1.88/-1.42
Θ(37.5°)	-1.21/-2.64	-3.62/-4.42	-3.04/-0.57	-0.97/1.18	-6.17/-6.78	-6.03/-6.42	-6.43/-4.54	-3.2/-3.03	-2.17/-3.12	-3.22/-6.2	-7.73/-5.53	-6.84/-11.42	-11.05/-8.24	-13.81/-17.19	-10.67/-8.39	-6.15/-5.53	-3.64/-4.48	-6.21/-5.06	-6.93/-8.48	-11.77/-14.72	-3.79/-5.27	-2.06/0.09	-0.88/-1.24	-0.89/-1.24
Θ(45°)	-1.9/-0.73	-1.42/-5.04	-3.52/0.2	0.89/1.27	-3.3/-1.58	-4.21/-5.94	-3.51/5.02	-1.45/-2.14	-3.38/-3.88	-3.48/-3.13	-5.54/-6.3	-6.55/-4.89	-4.95/-2.78	-1.5/-4.78	-4.01/-3.93	-4.88/-4.08	-2.29/-8.15	-2.36/0.99	-8.09/-13.32	-5.94/-1.34	-0.48/-6.11	-3.8/-2.52	-2.51/-1.29	-3.36/-4.04
Θ(52.5°)	-2.10/93	0.41/-5.59	-4.12/-1.2	1.87/-1.43	-5.44/-0.77	-0.42/-1.96	-2.06/-3.18	2.16/0.92	-1.96/-2.5	-0.31/-0.39	-0.05/-4.17	-5.68/-3.24	-3.63/-2.96	-0.91/-2.42	-1.42/-1.97	-4.87/-4.87	-4.94/-15.5	-2.43/-1.05	-7.92/-9.29	-7.89/-5.21	-2.72/-3.43	0.74/0.88	-0.53/-0.28	-2.1/-1.67
Θ(60°)	-0.580/-47	0.14/-6.07	-5.48/-0.46	0.65/-1.4	-1.13/-4.99	0.51/1.37	-0.24/0.56	2.16/1.11	-0.31/0.39	1.51/1.17	1.91/-0.79	-1.44/0.26	0.65/-2.21	-2.31/-2.34	-1.11/-0.98	-5.13/-2.81	-4.12/4.44	-1.12/5.8	-1.94/-2.65	-10.18/-12.65	-1.46/-0.48	0.27/0.84	0.09/-0.67	-1.69/-1.7
Θ(67.5°)	2.11/-0.76	-2.35/-4.98	-7.41/-3.29	-2.53/-2.4	-4.96/-3.46	1.37/0.44	-2.68/1	0.19/-1.43	-1.09/1.94	3.05/-1.9	0.88/0.12	1.06/1.11	2.45/1.78	-1.3/-1.63	-0.26/-1.53	-3.43/-1.17	-2.22/-3.6	1.29/3.39	1.61/0.19	-9.63/-5.43	1.84/1.34	-1.25/0.24	1.07/1.11	0.51/2.94
Θ(75°)	2.79/-1.43	-4.97/-1.45	-6.79/-3.06	-2.98/-3.15	-6.16/-1.19	0.53/-6.68	-6.53/-2.72	-3.52/-3	-0.88/-1.93	2.39/1.78	-1.03/-1.11	0.21/0.41	1.57/2.5	1.13/-0.87	-0.62/-2.68	-3.73/-1.09	-1.29/-1.13	1.31/2.98	3.05/2.54	-5.86/-2.24	3.05/2.04	-2.67/-1.21	2.08/2.2	1.86/3.03
Θ(82.5°)	1.47/-2.3	-5.25/-0.01	-6.71/-2.44	-4.84/-6.2	-6.2/-17	-0.43/-6.45	-6.46/-2.38	-2.95/-2.91	-0.04/1.77	1.50/52	-2.92/-3.03	-1.1/-0.66	-1/1.29	2.24/-0.24	-0.52/-5.04	-5.87/-3.85	-0.78/-1.1	0.67/1.62	3.51/2.33	-4.31/-0.03	3.49/1.86	-2.16/-3.85	1.89/1.84	1.31/35
Θ(90°)	-1.37/-4.19	-4.85/-0.88	-7.77/-3.48	-6.59/-12.48	-5.41/-4.84	-1.58/-7.83	-5.42/-3.05	-1.72/-5.18	-0.40/-23	-0.55/-0.85	-3.92/-7.33	-2.8/-1.41	-4.09/-0.26	1.71/-0.17	-0.49/-5.58	-10.21/-7.17	-2.31/-3	-2.55/-1.5	1.03/0.9	-5.68/-0.69	1.61/-0.45	-2.39/-4.97	0.8/-0.01	-0.75/-0.62
Θ(97.5°)	-5.39/-8.45	-5.39/-2.27	-7.44/-4	-10.46/-16.09	-4.88/-8.39	-4.07/-8.22	-5.23/-3.64	-2.5/-6.13	-0.51/-0.59	-2.74/-3.2	-6.42/-10.8	-3.85/-2.04	-7.79/-2.86	0.31/-0.81	-2.19/-6.79	-13.74/-11.28	-4.54/-5.76	-8.68/-8.38	-2.87/-2.52	-11.79/-4.3	-3.27/-5.1	-4.29/-5.88	-1.72/-1.96	-2.76/-2.34
Θ(105°)	-6.71/-10.46	-8.23/-6.84	-8.82/-5.01	-8.98/-13.16	-7.42/-7.65	-8.03/-16.48	-9.09/-8.85	-6.52/-7.35	-2.21/-22	-5.71/-6.42	-11.8/-17.36	-6.21/-4.91	-7.41/-7.59	-2.7/-0.76	-3.95/-7.29	-12.55/-8.47	-6.53/-9.04	-9.74/-10.61	-5.46/-2.45	-18.16/-7.01	-7.15/-6.96	-12.77/-11.47	-2.29/-5.11	-5.35/-3.44
Θ(112.5°)	-8.71/-8.41	-11.23/-11.14	-8.6/-5.89	-6.37/-18.97	-15.94/-5.88	-9.15/-9.83	-12.43/-17.02	-8.66/-8.27	-3.11/-2.44	-7.15/-9.65	-13.41/-16.25	-7/-8.01	-12.33/-12.86	-5.28/-1.29	-6.32/-7.06	-11.71/-8.52	-8.89/-7.06	-13.09/-7.72	-5.54/-1.76	-14.01/-6.55	-5.41/-8.32	-10.49/-9.05	-2.7/-6.89	-5.75/-4.97
Θ(120°)	-11.82/-9.16	-11.66/-12.19	-8.03/-10.57	-8.88/-8.18	-17.8/-5.57	-8.69/-13.96	-13.93/-16.76	-10.35/-3.95	-5.05/-4.19	-9.33/-9.73	-10.87/-13.6	-7.03/-10.18	-14.41/-13.54	-10.59/-4.72	-6.67/-7.83	-9.34/-11.69	-13.84/-17.66	-10.04/-11.93	-12.82/-5.45	-13.85/-10.68	-6.71/-10.53	-13.87/-10.69	-2.68/-5.23	-9.47/-10.03
Θ(127.5°)	-19.06/-16.22	-12.68/-17.9	-11.89/-11.25	-12.61/-13.54	-13.97/-12.01	-15.97/-16.54	-12/-13.94	-12.97/-17.64	-13/-6.33	-11.98/-10.93	-11.78/-12.91	-7.38/-13.43	-18.95/-13.34	-19.38/-9.1	-8.52/-8.58	-7.76/-8.16	-15.49/-9.35	-8.67/-9.64	-14.3/-4.77	-12.96/-13.68	-9.19/-7.73	-11.82/-17.16	-0.76/-4.5	-8.92/-14.28
Θ(135°)	-19.27/-15.22	-13.24/-18.14	-11.7/-11.48	-14.21/-11.21	-12.87/-10.26	-18.19/-16	-17.56/-18.93	-14.81/-18.71	-8.83/-8.93	-13.71/-15.39	-16.8/-13.34	-10.25/-14.14	-17.81/-17.91	-18.09/-18.71	-18.67/-7.65	-12.46/-8.08	-8.12/-15.25	-9.08/-14.54	-15.03/-5.32	-16.15/-12.45	-9.83/-17.74	-19.07/-13.83	-18.18/-6.85	-8.97/-19.31
Θ(142.5°)	-16.84/-19.37	-18.35/-19.19	-19.01/-10.17	-13.26/-10.51	-11.01/-14.43	-19.37/-17.71	-16.35/-14.06	-18.64/-15.16	-10.14/-10.19	-11.18/-12.79	-12.79/-19.19	-14.39/-12.78	-16.15/-19	-14.19/-18.5	-18.52/-13.62	-13.13/-17.81	-17.96/-10.56	-18.99/-8.41	-18.27/-14.24	-18.49/-14.07	-10.54/-9.91	-18.31/-11.37	-10.88/-16.23	
Θ(150°)	-17.64/-16.56	-12.29/-18.88	-19.01/-9.14	-10.93/-19.21	-13.77/-14.21	-16.71/-16.77	-17.22/-14.68	-18.34/-14.38	-14.92/-15.87	-11.88/-10.59	-15.23/-18.64	-18.13/-14.78	-17.17/-16.75	-17.47/-10.65	-15.52/-18.66	-12.96/-14.57	-17.74/-17.4	-13.71/-10.58	-15.72/-17.44	-12.12/-13.39	-14.44/-12.27	-15.1/-18.95	-18.16/-16.45	
Θ(157.5°)	-18.56/-18.3	-19.23/-18.88	-18.69/-19.01	-18.1/-15.97	-13.18/-18.15	-16.17/-15.67	-12.94/-10.21	-8.32/-7.47	-7.86/-10.44	-13.24/-16.3	-19/-13.71	-13.52/-11.52	-11.13/-13.5	-17.35/-14.49	-10.63/-11.19	-14.02/-17.92	-17.1/-18.92	-17.94/-17.63	-16.13/-11.62	-11.59/-15.52	-18.24/-18.33	-17.43/-14.76	-14.02/-19.11	-18/-18.51
Θ(165°)	-18.72/-18.2	-18.57/-19.07	-19.24/-18.7	-18.14/-18.01	-18.93/-17.39	-18.8/-15.3	-14.32/-13.38	-15.35/-18.6	-18.44/-18.49	-18.01/-19	-18.11/-18.68	-19.17/-17.8	-11.88/-10.7	-11.65/-15.69	-19.09/-15.26	-11.82/-13.43	-19.16/-18.86	-19.15/-18.01	-18.12/-17.61	-13.8/-11.76	-11.74/-14.74	-17.47/-17.52	-18.58/-18.4	-17.77/-19.07
Θ(172.5°)	-18.04/-18.83	-17.65/-17.94	-18.64/-14.92	-19.05/-18.15	-17.42/-18.15	-18.93/-18.29	-17.8/-16.77	-15.43/-19.7	-18.15/-18.19	-19.15/-17.77	-18.6/-17.52	-17.25/-19.24	-18.6/-17.74	-16.81/-16.34	-16.41/-15.29	-19.06/-18.91	-19.31/-18.54	-17.16/-14.28	-12.69/-12.99	-13.76/-17.38	-17.59/-18.56	-18.03/-19.02	-18.29/-18.05	
Θ(180°)	-17.1/-18.81	-19.49/-17.83	-16.75/-16.46	-16.42/-17.98	-18.09/-18.44	-18.21/-18.99	-18.65/-18.83	-18.39/-18.99	-17.67/-17.97	-17.93/-19.14	-18.37/-19.2	-17.9/-17.68	-17.79/-18.18	-18.38/-16.56	-18.03/-17.51	-19.09/-18.32	-17.63/-16.82	-16.33/-16.02	-17.31/-18.03	-17.32/-17.9	-18/-18.59	-16.91/-16.17	-15.14/-16.27	-19.19/-17.71
Freq(Hz)	6.995GPdL	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°)	-6.61/-6.07	-5.89/-5.9	-6.44/-7.45	-8.8/-10.3	-1.174/-13.6	-16.53/-18.77	-17.73/-17.31	-14.21/-12.1	-9.69/-8.71	-7.78/-8.02	-7.63/-7.69	-7.97/-7.69	-7.67/-7.42	-7.69/-8.06	-8.58/-9.38	-10.61/-12.01	-14.24/-16.7	-19.47/-18.07	-18.59/-19.17	-18.71/-15.6	-13.44/-11.66	-10.25/-8.68	-7.59/-6.91	-6.31/-6.05
Θ(7.5°)	-14.26/-14.57	-16/-17.57	-19.18/-18.62	-17.93/-18.59	-19.22/-17.9	-18.97/-18.3	-18.91/-15.42	-12.91/-10.65	-9.26/-8.42	-7.98/-7.48	-7.2/-6.72	-6.29/-5.73	-5.25/-5.19	-6.23/-3.79	-9.21/-12.22	-16.85/-18.1	-19.49/-15.53	-12.86/-11.74	-10.53/-9.42	-8.68/-8.29	-8.49/-8.31	-8.53/-9	-9.47/-11.29	
Θ(15°)	-7.676/-8.26	-9.29/-9.46	-10.28/-11.47	-12.47/-14.02	-17.57/-16.71	-15.21/-13.08	-11.49/-47	-7.68/-6.51	-3.86/-2.92	-3.14/-3.44	-4.25/-5.19	-5.93/-6.37	-6.59/-9.17	-5.75/-12.37	-13.74/-11.88	-12.49/-15.51	-18.83/-16.6	-13.95/-12.53	-11.26/-9.64	-7.7/-5.96	-5.23/-5.05	-2.57/-5.74	-5.45/-6.05	-4.92/-5.7
Θ(22.5°)	-6.81/-8.66	-9.58/-9.03	-10.38/-12.5	-14.4/-14.84	-13.93/-15.95	-19.25/-19.63	-13.75/-9.06	-6.54/-5.83	-6.25/-6.08	-6.51/-5.89	-4.84/-5.03	-5.2/-6.45	-8.38/-8.71	-8.68/-10.95	-17.52/-16.05	-15.44/-18.8	-18.66/-15.12	-10.44/-9.74	-12.17/-13.59	-9.28/-6.84	-5.38/-4.47	-5.34/-6.18	-4.41/-3.08	-3.42/-4.88
Θ(30°)	-4.57/-5.66	-1.84/-16.27	-19/-18.31	-18.57/-14.65	-9.77/-11.52	-18.21/-12.64	-9.37/-8.81	-9.18/-9.65	-9.16/-8.32	-8.48/-7.78	-6.76/-7.31	-8.03/-7.57	-8.8/-8.38	-6.89/-6.48	-8.4/-14.38	-18.03/-13.39	-12.9/-13.16	-8.7/-9.29	-10.97/-9.57	-8.59/-8.19	-9.82/-10.4	-9.27/-8.97	-6.82/-5.53	-6.52/-5.94
Θ(37.5°)	-11.59/-15.09	-18.37/-10.59	-11.03/-11.24	-14.02/-18.5	-13.73/-14.27	-18.03/-14.42	-10.12/-12.43	-17.44/-10.93	-8.81/-9.43	-8.23/-6.94	-7.77/-4.02	-4.22/-8.92	-10.71/-13.03	-11.58/-12.4	-10.41/-11.79	-7.42/-8.15	-9.37/-8.86	-10.94/-14.64	-9.43/-8.88	-10.79/-14.1	-12.4/-12.57	-10.79/-16.9		
Θ(45°)	-10.68/-6.84	-17.8/-9.64	-12.55/-15.8	-12.32/-11.98	-12.17/-17.81	-14.74/-16.71	-11.44/-13.82	-15.79/-12.45	-10.79/-13.99	-9.75/-7.1	-6.16/-8.02	-8.18/-5.67	-6.54/-10.69	-13.08/-19.14	-11.24/-17.31	-12.89/-15.03	-12.51/-11.63	-10.23/-10.23	-11.40/-12.57	-13.48/-7.05	-6.8/-10.04	-11.54/-9.18	-6.95/-19.43	-15.74/-11.36
Θ(52.5°)	-19.4/-9.32	-8.93/-9	-18.74/-13.12	-12.94/-13.17	-10.24/-12.05	-14.02/-16.38	-12.27/-17.81	-14.07/-9.73	-5.57/-6.88	-6.27/-8.56	-12.64/-11.83	-11.96/-13.75	-13.1/-10.98	-12.07/-12.73	-11.66/-15.73	-17.34/-16.09	-16.05/-12.69	-15.64/-11.98	-8.29/-18.72	-12.77/-6.87	-11.1/-11.58	-7.42/-6.51	-5.76/-12.74	-9.91/-18.19
Θ(60°)	-12.97/-18.9	-8.62/-12.16	-17.85/-18.18	-13.51/-8.62	-18.97/-16.62	-16.26/-11.33	-17.95/-18.7	-12.23/-8.51	-4.66/-11.52	-13.76/-12.77	-17.57/-13.11	-14.4/-19.1	-19.04/-10.19	-10.56/-12.65	-11.14/-11.77	-19.27/-17.03	-18.27/-18.64	-17.57/-18.8	-12.57/-18.62	-16.03/-12.05	-17.97/-15.25	-4.91/-9.7	-7.33/-15.81	-9.57/-13.15
Θ(67.5°)	-11.01/-18.76	-15.84/-14.58	-10.56/-18.39	-17.91/-11.2	-17.89/-16.96	-14.23/-8.95	-18.72/-19.2	-13.82/-13.08	-12.57/-17.77	-15.93/-18.41	-18.58/-9.03	-11.11/-12.07	-15.07/-9.32	-14.84/-18.76	-13.85/-12.69	-17.84/-18.79	-16.82/-18.27	-16.12/-18						



Radiated Composite Gain Data_Radio 2 (4TX)

Appendix B.1

Θ(75°)	-4.77/-6.26	-6.6/-2.76	-2.53/-1.01	0.59/-2.56	-4.4/-1.18	1.24/4.27	3.54/2.65	2.37/0.52	-2.02/-3.93	-0.50/-1	-2.25/-1.63	-2.65/-2.75	-4.64/-5	-5.75/-3.53	-1.28/-7.65	-2.57/-2.13	0.25/2.35	1.27/2.22	0.58/1.5	2.04/-0.8	-3.32/-2.89	-2.93/-0.7	-0.36/-0.17	-2.54/-3.1
Θ(82.5°)	-3.78/-9.67	-10.08/-3.55	-3.07/-1.28	-0.43/-3.08	-4.02/-1.77	1.39/2.71	1.53/-1.6	2.24/0.91	-2.08/-3.85	-1.31/-0.83	-3.25/-3.83	-3.35/-3.59	-7.47/-5.08	-7.49/-3.79	-3.52/-8.45	-2.63/-0.55	1.05/2.35	0.31/35	0.39/1.48	1.32/-1.89	-2.22/-3.7	-3.97/-1.36	-1.17/-2.26	-4.49/-3.73
Θ(90°)	-4.43/-9.1	-15.31/5.05	-5.42/-3.4	-5.02/-3.88	-5.02/-3.64	-0.21/0.48	-1.47/-0.11	0.60/5.65	-3.18/-4.1	-3/-2.05	-5.18/-7.94	-4.93/-5.6	-8.86/-6.04	-8.87/-5.26	-11.8/-8.54	-0.81/-5.57	-0.81/-0.04	-1.96/-0.92	-1.17/0.01	-0.84/-3.2	-2.9/-6.71	-6.04/-2.65	-2.54/-5.33	-5.64/-4.6
Θ(97.5°)	-7.9/-10.9	-17.48/-6.92	-8/-5.35	-4.49/-3.96	-7.17/-5.86	-2.09/-4.11	-4.93/-2.34	-0.76/-1.09	-5.05/-5.57	-4.12/-4.38	-7.3/-9.53	-7.24/-9.6	-8.73/-9.55	-8.51/-7	-8.7/-10.41	-9.64/-4.86	-3.08/-4.73	-6.5/-3.9	-6.83/-3.51	-5.02/-8.04	-6.48/-10.88	-7.09/-4.83	-5.67/-7.23	-6.64/-4.66
Θ(105°)	-10.49/-10.05	-16.48/-9.4	-10.06/-8.87	-7.31/-5.32	-6.39/-6.3	-4/-5.66	-8.02/-4.94	-2.73/-3.73	-6.95/-8.42	-5.19/-7.84	-9.61/-10.55	-9.66/-9.53	-13.04/-10.9	-11.81/-7.33	-8.89/-12.28	-12.06/-8.91	-6.19/-8.85	-8.35/-4.36	-8.31/-5.71	-7.46/-9.16	-11.64/-11.52	-8.72/-7.53	-9.78/-7.38	-7.89/-6.35
Θ(112.5°)	-9.27/-9.69	-17.25/-9.54	-9.69/-14.74	-6.44/-9.06	-6.63/-5.93	-7.69/-7.58	-10.73/-10.23	-5.56/-5.54	-8.74/-8.88	-5.87/-10.39	-11.61/-10.23	-9.07/-13.21	-17.05/-9.38	-14.14/-8.62	-11.76/-15.1	-9.93/-8.73	-6.73/-7.96	-5.84/-4.32	-12.12/-7.45	-6.76/-6.43	-13.05/-8.41	-7.3/-7.56	-8.82/-7.28	-9.86/-10.42
Θ(120°)	-10.03/-15.01	-16.24/-8.54	-12.97/-17.04	-7.36/-11.72	-7.18/-8.66	-7.23/-8.23	-11.89/-11.38	-8.35/-7.77	-12.05/-10.84	-11.37/-16.63	-17.07/-14.66	-11.9/-15.72	-19.17/-11.82	-19.93/-7.44	-12.54/-18.79	-11.5/-12.18	-10.47/-10.19	-11.37/-5.58	-12.49/-11.46	-10.32/-11.71	-11.52/-8.97	-11.15/-9.98	-11.06/-8.9	-16.17/-10.18
Θ(127.5°)	-15.61/-14.61	-14.75/-11.76	-18.98/-18.75	-13.32/-10.56	-6.56/-10.4	-9.84/-12.98	-16.34/-16.96	-11.05/-8.74	-9.64/-11.88	-17.49/-17.67	-18.58/-15.78	-10.72/-15.74	-18.62/-17.99	-11.98/-0.4	-18.54/-17.9	-18.38/-13.4	-16.14/-13.93	-8.92/-0.68	-15.93/-12.41	-11.68/-18.08	-11.38/-9.94	-14.81/-6.81	-17.4/-15.62	-14.77/-11.47
Θ(135°)	-16.49/-14.33	-13.27/-10.67	-12.06/-18.04	-18.67/-17.62	-13.74/-9.39	-8.94/-12.91	-15.11/-12.71	-8.3/-8.79	-12.77/-12.66	-14.92/-11.8	-18.79/-15.84	-13.17/-14.23	-18.28/-19.46	-16.53/-10.24	-12.12/-18.43	-13.56/-9.86	-19.08/-12.36	-8.05/-6.12	-16.71/-18.11	-8.86/-13.89	-8.97/-18.37	-9.74/-10.97	-15.84/-18.19	-19.05/-18.22
Θ(142.5°)	-18.74/-18.84	-15.76/-12.35	-15.65/-17.19	-18.47/-15.5	-15.61/-13.39	-13.21/-13.92	-15.1/-15.15	-13.05/-13.59	-11.51/-10.13	-10.42/-16.06	-19.12/-16.32	-16.21/-18.3	-19.07/-16.81	-14.15/-11.93	-14.83/-15.28	-19.16/-16.03	-18.29/-18.6	-10.46/-11.75	-17.89/-18.39	-15.65/-18.49	-18.12/-12.69	-13.53/-15.97	-17.56/-17.82	-18.88/-17.88
Θ(150°)	-17.21/-18	-18.89/-18.51	-13.14/-12.45	-16.84/-18.84	-19.03/-19.02	-16.96/-14.79	-13.82/-14.44	-12.05/-12.41	-10.59/-12.02	-9.39/-12.71	-18.2/-18.69	-16.39/-17.7	-16.19/-17.19	-17.2/-18.82	-18.33/-18.55	-17.96/-16.52	-15.95/-17.72	-18.17/-14.13	-15.2/-19.47	-18.51/-13.29	-13.76/-15.59	-18.45/-17.97	-18.06/-19.06	-17.73/-18.92
Θ(157.5°)	-17.96/-17.8	-18.61/-19.1	-18.09/-17.25	-13.52/-11.93	-12.38/-14.75	-18.89/-18.03	-18.84/-14.37	-11.51/-10.21	-15.08/-14.3	-16.44/-15.6	-13.27/-18.67	-17.02/-19.45	-15.5/-14.5	-17.93/-18.76	-18.29/-16.73	-15.05/-17.39	-18.01/-15.93	-13.86/-16.43	-19.64/-18.64	-17.97/-17.41	-19.11/-16.77	-15.41/-16.33	-18.05/-19.16	-18.46/-18.47
Θ(165°)	-18.9/-18.87	-18.4/-19.46	-18.79/-16.78	-15.65/-15.88	-16.8/-18.47	-19.01/-18.57	-18.84/-18.78	-16.99/-16.1	-15.13/-13.96	-12.62/-13.41	-17.8/-18.15	-17.13/-18.8	-19.09/-18.16	-19.11/-14.72	-16.83/-17.67	-16.44/-12.46	-11.89/-11.4	-12.45/-14.25	-16.71/-18.12	-17.29/-18.47	-17.71/-18.54	-18.62/-18.48	-18.06/-19.97	-17.73/-18.23
Θ(172.5°)	-17.69/-15.73	-18.13/-18.49	-18.05/-19.09	-17.48/-15.34	-14.89/-15.09	-15.43/-16.19	-16.04/-15.14	-14.07/-13.9	-13.86/-13.43	-13.68/-15.66	-17.92/-16.66	-18.7/-18.67	-18.46/-16.68	-19.17/-18.16	-18.79/-19.12	-16.77/-15.54	-15.86/-17.81	-19.02/-18.6	-18.03/-18.17	-18.9/-17.59	-18.24/-18.61	-18.07/-17.58	-19.01/-17.51	-17.94/-18.58
Θ(180°)	-15.76/-15.9	-17.69/-18.04	-18.6/-18.08	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49	-18.31/-18.49
Freq(Hz)	6.475GPol.	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°)	-4.49/-19.14	-10.15/-29.22	-18.28/-15.92	-13.42/-11.62	-10.65/-9.43	-8.85/-8.1	-7.91/-7.58	-7.54/-7.87	-8.18/-8.64	-9.05/-9.67	-10.37/-11.05	-12.12/-13.74	-17.81/-18.31	Φ(187.5°)Φ(195°)	Φ(192.5°)Φ(200°)	Φ(197.5°)Φ(205°)	Φ(202.5°)Φ(210°)	Φ(207.5°)Φ(215°)	Φ(212.5°)Φ(220°)	Φ(217.5°)Φ(225°)	Φ(222.5°)Φ(230°)	Φ(227.5°)Φ(235°)	Φ(232.5°)Φ(240°)	Φ(237.5°)Φ(245°)
Θ(7.5°)	-14.82/-17.39	-18.68/-18.42	-17.23/-15.94	-15.79/-14.77	-14.29/-13.37	-11.94/-10.54	-9.31/-8.82	-8.39/-7.88	-7.92/-8.2	-9.14/-10.27	-11.89/-13.89	-16.06/-19.16	-18.76/-18.87	-19.02/-15.62	-13.15/-12.18	-10.83/-9.91	-8.81/-8.1	-7.37/-7.16	-7.49/-7.58	-8.05/-8.57	-8.99/-9.55	-10.18/-10.48	-10.5/-10.68	-12.58/-13.51
Θ(15°)	-10.69/-11.79	-15.41/-18.75	-13.41/-10.25	-10.21/-13.6	-12.1/-10.67	-7.96/-6.53	-5.69/-5.52	-5.75/-5.91	-6.39/-7.35	-7.99/-8.25	-9.17/-10.05	-11.39/-12.92	-13.25/-15.38	-19.1/-41	-14.43/-12.28	-10.22/-8.71	-7.43/-6.96	-6.74/-6.29	-6.51/-6.07	-6.06/-6.84	-7.79/-7.6	-10.51/-10.89	-10.28/-10.35	-10.56/-9.98
Θ(22.5°)	-15.86/-14.74	-18.61/-18.41	-17.67/-19.18	-19.58/-19.12	-15.1/-10.69	-8.71/-7.17	-6.36/-6.22	-6.25/-6.75	-7.98/-9	-9.32/-8.88	-7.83/-8.17	-10.32/-12.49	-12.65/-14.45	-19.64/-13.16	-11.33/-13.71	-15.13/-12.59	-10.75/-9.87	-9.86/-8.61	-6.3/-4.03	-3.09/-3.35	-5.16/-8.13	-10.27/-10.65	-10.27/-13.39	-17.05/-18.11
Θ(30°)	-17/-16.15	-15.01/-16.02	-16.64/-18.77	-18.05/-15.19	-12.06/-11.91	-13.72/-14.34	-11.02/-7.48	-7.47/-9.69	-10.01/-12.54	-14.97/-11.89	-7.85/-6.59	-8.71/-15.35	-18.79/-17.81	-9.7/-6.91	-8.37/-15.8	-18.14/-18.57	-11.84/-9	-7.26/-5.27	-4.82/-4.84	-4.89/-5.14	-5.98/-6.53	-6.14/-7.24	-8.44/-10.82	-14.89/-16.23
Θ(37.5°)	-14.24/-15.71	-13.21/-13.59	-17.19/-14.67	-17.06/-16.69	-14.33/-12.23	-10.87/-8.05	-8.03/-8.37	-6.66/-7.6	-5.86/-7.61	-12.47/-13.61	-11.22/-8.04	-9.67/-13.99	-11.58/-13.61	-18.01/-17.98	-18.5/-7.39	-7.37/-9.16	-7.42/-4.69	-6.03/-8.92	-8.78/-7.74	-7.93/-6.17	-5.3/-6.45	-6.72/-7.98	-13.52/-15.37	
Θ(45°)	-17.96/-19.06	-16.98/-15.3	-13.03/-14.03	-12.33/-12.54	-12.54/-11.51	-9.87/-8.69	-9.52/-7.96	-6.72/-10.84	-13.05/-12.57	-16.41/-10.92	-9.33/-10.76	-18.61/-17.6	-14.17/-10.49	-17.74/-18.45	-13.07/-13.53	-17.32/-10.2	-6.44/-7.35	-7.96/-8.08	-8.67/-14.76	-11.25/-8.21	-8.06/-8.45	-10.98/-16.74	-10.82/-10.2	-14.26/-16.3
Θ(52.5°)	-18.97/-18.81	-15.54/-16.28	-15.48/-11.97	-18.85/-13.16	-9.84/-9.43	-10.2/-11.52	-16.32/-6.41	-5.79/-9.27	-7.71/-16.01	-18.22/-16.95	-9.96/-7.33	-12.74/-19.79	-12.9/-16.3	-18.09/-17.91	-8.45/-10.07	-11.53/-8.45	-9.41/-8.99	-9.07/-13.61	-9.7/-13.33	-11.3/-8.89	-11.88/-13.83	-18.55/-18.04	-18.99/-14.27	-13.92/-16.55
Θ(60°)	-14.41/-18.71	-12.22/-12.82	-18.87/-18.54	-16.1/-18.27	-18.2/-11.77	-12.56/-13.62	-18.31/-13.41	-7.39/-8.89	-7.85/-18.96	-16.85/-12.84	-17.18/-13.55	-15.76/-12.35	-15.99/-18.13	-13.27/-18.32	-10.21/-12.15	-14.25/-13.08	-15.64/-19.13	-11.73/-14.73	-17.44/-12.87	-13.56/-11.02	-18.77/-18.39	-16.01/-14.48	-15.33/-19.5	-16.46/-15
Θ(67.5°)	-13.31/-18.79	-15.64/-13.27	-15.29/-16.37	-15.96/-13.75	-12.03/-18.35	-13.82/-12.63	-13.19/-18.85	-10.62/-13.85	-18.56/-17.58	-16.84/-11.73	-12.91/-16.12	-13.6/-15.01	-15.42/-18.97	-12.17/-18.96	-17.98/-18.93	-14.15/-14.57	-11.88/-13.45	-18.29/-12.65	-18.15/-17.41	-18.95/-15.27	-12.21/-10.54	-10.56/-14.62	-16.54/-15.77	
Θ(75°)	-16.62/-17.32	-16.46/-10.86	-11.5/-12.86	-9.34/-13.77	-10.36/-9.38	-11.62/-11.62	-11.18/-12.69	-18.59/-12.61	-17.28/-12.63	-14.24/-18.9	-18.46/-16.87	-15.23/-14.56	-10.77/-18.84	-18.68/-15.12	-19.16/-14.03	-12.61/-8.33	-10.32/-8.22	-8.67/-12.99	-15.42/-10.79	-17.74/-14.7	-14.95/-14	-14.81/-12.2	-11.33/-12.24	-12.97/-15.27
Θ(82.5°)	-17.97/-17.14	-17.15/-8.65	-9.34/-11.5	-9.73/-14.2	-10.06/-7.38	-11.6/-10.7	-9.8/-10.82	-16.88/-9.6	-16.83/-11.16	-11.49/-17.98	-18.96/-18.71	-17.79/-11.9	-11.19/-18.5	-18.07/-15.9	-19.42/-15.53	-10.87/-5.36	-7.93/-6.63	-8.47/-10.77	-10.44/-11.38	-17.24/-12.11	-14.21/-14.11	-13.59/-13.21	-18.95/-12.88	-10.45/-17.68
Θ(90°)	-18.47/-19	-18.3/-8.59	-9.12/-11.36	-10.14/-16.48	-11.17/-7.73	-12.08/-11.45	-9.41/-10.54	-18.25/-11.81	-19.07/-14.53	-10.54/-15.53	-14.47/-17.19	-19.34/-12.68	-13.64/-15	-13.83/-18.15	-17.96/-17.05	-18.6/-6.18	-9.37/-7.67	-8.62/-16.61	-12.22/-15.38	-18.48/-13.44	-10.99/-14.33	-16.74/-17.68	-17.78/-16.98	-10.77/-17.93
Θ(97.5°)	-17.99/-18.52	-18.6/-10.43	-9.31/-14.05	-13.18/-17.35	-11.47/-7.09	-12.95/-15.93	-11.7/-12.32	-19.64/-12.76	-17.64/-18.21	-13.31/-15.99	-12.93/-18.98	-16.65/-13.51	-13.91/-19.05	-15.87/-18.65	-18.69/-17.29	-17.07/-9.66	-15.21/-10.23	-15.81/-18.93	-14.28/-18.54	-17.77/-13.08	-11.14/-16.12	-16.85/-19.12	-19.26/-15.25	-13.31/-17.72
Θ(105°)	-17.99/-18.16	-18.66/-12.61	-10.79/-18.65	-16.61/-17.65	-15.61/-9.24	-10.78/-19.11	-18.3/-13.05	-14.81/-15.42	-17.58/-19.08	-13.42/-17.42	-11.12/-16.22	-14.57/-15.87	-17.99/-18.59	-14.42/-18.63	-16.47/-17.99	-17.4/-14.3	-15.95/-15.49	-19.2/-18.95	-15.87/-17.76	-19.63/-10.89	-14.04/-19.12	-18.48/-19.02	-16.68/-14.98	-12.81/-13.6
Θ(112.5°)	-19.61/-18.93	-18.09/-19.46	-12.61/-18.48	-18.07/-16.22	-19.19/-11.61	-8.01/-15.31	-16/-15.17	-14.04/-17.74	-18.69/-13.59	-17.5/-18.21	-12.42/-16.56	-17.72/-15.74	-18.77/-18.89	-15.9/-19.1	-16.41/-16.58	-								



Radiated Composite Gain Data_Radio 2 (4TX)

Appendix B.1

Θ(127.5°)	-19.29/-15.67	-12.29/-17.62	-15.2/-18.96	-11.62/-6.32	-11.35/-8.02	-8.68/-11.97	-16.72/-12.13	-8.87/-11.74	-12.11/-12.15	-15.43/-17.45	-10.24/-18.14	-18.51/-10.95	-17.88/-12.47	-13.8/-17.67	-9.94/-13.09	-18.07/-19.08	-8.07/-14.57	-11.45/-4.37	-16.76/-14.47	-8.96/-7.72	-16.05/-9.31	-6.08/-11.41	-14.09/-11.63	-17.45/-17.98
Θ(135°)	-18.39/-16.05	-13.53/-18.23	-17.79/-17.87	-16.99/-13.05	-10.49/-7.56	-10.01/-19.11	-19.07/-10.86	-10.8/-10.82	-10.01/-11.52	-17.09/-12.98	-18.45/-17.64	-18.81/-18.91	-17.79/-15.14	-17.28/-8.81	-19.09/-10.24	-10.83/-14.88	-14.63/-14.15	-9.69/-5.42	-18.49/-17.79	-11.5/-18.59	-12.58/-9.62	-14.94/-8.48	-16.02/-14.04	-18.91/-18.37
Θ(142.5°)	-19/-18.2	-18.25/-16.17	-18.99/-15.43	-18.27/-17.17	-19.12/-10.92	-10.9/-16.66	-15.36/-14.15	-11.56/-13.51	-11.28/-11.19	-13.97/-18.18	-17.98/-18.04	-15.46/-18.43	-18.62/-17.88	-12.72/-10.21	-12.84/-18.6	-17.32/-16.52	-13.28/-18.66	-9.98/-8.26	-18.62/-18.35	-18.41/-17.66	-13.27/-17.06	-9.29/-12.43	-18.7/-17.62	-17.86/-19.05
Θ(150°)	-17.9/-18.59	-13.96/-17.12	-18.13/-12.87	-15.01/-17.79	-12.98/-11.43	-18.95/-17.88	-13.56/-10.75	-11/-10.27	-11.8/-10.79	-8.47/-12.79	-15.14/-16.14	-16.39/-16.12	-17.51/-19.1	-18.12/-18.95	-15.82/-19	-17.72/-15.57	-15.22/-18.36	-16.4/-13.54	-18.79/-18.85	-17.88/-13.16	-12.27/-12.55	-15.65/-19.13	-17.15/-15.21	-18.68/-18.2
Θ(157.5°)	-18.47/-18.41	-17.9/-19.27	-19.48/-15.32	-11.15/-11.49	-17.1/-17.6	-18.62/-16.4	-13.84/-12.85	-13.18/-14.11	-14.55/-12.94	-14.64/-17.77	-12.54/-16.04	-18.45/-19.11	-18.55/-17.89	-17.38/-17.38	-16.5/-17.52	-17.77/-18.36	-18.69/-18.12	-15.93/-18.94	-19.21/-17.57	-17.93/-19.17	-17.52/-17.98	-17.87/-14.95	-15.39/-17.24	-18.09/-18.17
Θ(165°)	-18.77/-19.14	-17.73/-14.8	-13.62/-14.17	-15.72/-18.09	-18.47/-17.3	-16.05/-17.92	-17.81/-16.18	-14.05/-13.14	-13.85/-15.07	-19.14/-18.94	-18.98/-18.44	-17.67/-18.22	-18.5/-18.52	-17.28/-17.69	-18.88/-17.95	-14.11/-13.68	-13.89/-15.59	-18.39/-19.2	-18.6/-18.34	-18.9/-18.43	-17.88/-17.91	-18.48/-18.24	-17.71/-17.25	-17.22/-18.2
Θ(172.5°)	-17.93/-17.87	-18.51/-17.86	-18.91/-18	-17.62/-16.1	-15.49/-15.36	-15.74/-15.35	-14.94/-14.17	-13.81/-14.85	-16.97/-14.42	-14.01/-15.27	-17.44/-17.77	-15.37/-15.92	-18.27/-18.81	-17.74/-18.4	-18.19/-16.77	-16.53/-18.59	-18.21/-18.52	-18.53/-18.3	-19.38/-17.8	-17.43/-17.17	-17.18/-17.05	-17.97/-18.12	-19.55/-17.66	-18.66/-18.43
Θ(180°)	-16.15/-15.9	-18.2/-19.12	-19.09/-18.23	-17.91/-17.89	-17.93/-18.21	-16.94/-15.87	-16.23/-15.48	-14.2/-12.21	-10.61/-11.71	-13.65/-14.48	-15.01/-14.94	-16.13/-18.26	-18.29/-17.8	-17.58/-18.47	-18.06/-18.06	-17.58/-16.91	-16.39/-17.11	-18.28/-18.14	-17.4/-16.15	-16.4/-15.9	-14.98/-15.2	-14.17/-14.82	-15.63/-16.16	-16.15/-15.86
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°)	-9.03/-11.18	-13.74/-19.23	-18.54/-17.57	-16.41/-13.8	-11.65/-9.52	-8.54/-7.01	-5.8/-5.14	-4.82/-4.78	-4.98/-5.17	-5.62/-5.87	-6.8/-8.07	-8.85/-10.13	-10.94/-12.24	-14.38/-18.34	-18.56/-19.29	-14.21/-10.98	-8.89/-7.66	-6.39/-5.63	-4.99/-4.8	-4.66/-4.45	-4.35/-4.34	-4.32/-4.74	-5.24/-6.06	-6.99/-7.79
Θ(7.5°)	-6.8/-8.69	-12.49/-17.86	-18.43/-14.78	-10.83/-9	-7.21/-6.49	-6.29/-5.78	-5.36/-5.5	-5.53/-5.24	-5.1/-4.47	-4.06/-3.85	-3.86/-4.55	-5.55/-7.79	-6.64/-13.15	-17.95/-19.4	-18.87/-16.27	-12.23/-9.73	-8.84/-6.79	-6.25/-5.76	-5.76/-5.91	-5.82/-5.9	-5.74/-5.42	-5.43/-5.67	-5.43/-5.56	-5.76/-5.8
Θ(15°)	-10/-13.94	-18.35/-14.85	-10.16/-8.11	-6.97/-5.45	-4.12/-4.61	-5.35/-6.45	-7.97/-8.92	-9.12/-9.23	-10.57/-12.32	-14.34/-15.72	-14.13/-14.22	-15.25/-17.54	-18.62/-18.51	-15.58/-14.04	-12.65/-10.88	-9.69/-8.98	-7.84/-6.77	-6.67/-6.2	-5.9/-5.88	-5.53/-5.93	-5.7/-5.35	-5.76/-7.08	-8.64/-9.51	-8.87/-8.56
Θ(22.5°)	-13.05/-17.92	-17.46/-10.33	-8.67/-9.3	-11.73/-10.16	-7.65/-6.46	-5.6/-4.85	-5.09/-6.09	-7.31/-9.1	-11.03/-12.27	-13.21/-16.99	-17.85/-19.33	-18.54/-18.09	-18.61/-18.86	-16.22/-19.39	-16.32/-12.46	-8.82/-6.93	-7.09/-9.1	-7.22/-7.35	-7.27/-7.04	-6.87/-7.07	-6.06/-5.63	-6.17/-10.09	-17.5/-18.17	-17.18/-13.24
Θ(30°)	-10.48/-14.48	-18.21/-18.13	-18.53/-15.18	-13.41/-11.97	-11.9/-13.2	-13.97/-8.51	-6.01/-6.74	-7.33/-9.7	-12.52/-12.2	-9.22/-8.4	-9.18/-11.64	-18.99/-12.03	-13.08/-12.42	-7.54/-8.98	-12.48/-13.38	-15.53/-15.71	-10.95/-9.06	-7.73/-6.28	-5.45/-5.08	-6.07/-7.99	-7.47/-6.46	-18.17/-13.27	-19.17/-16.01	-18.91/-14.4
Θ(37.5°)	-10.43/-18.73	-18.16/-17.98	-18.65/-16.05	-17.66/-13.85	-10.57/-13.16	-14.73/-15.96	-9.21/-5.92	-6.73/-10.86	-15.2/-9.58	-10.36/-12.89	-11.18/-8.47	-10.05/-19.03	-10.94/-12.85	-14.68/-15.93	-15.25/-14.5	-13.94/-14.27	-14.88/-16.41	-9.55/-7.5	-6.5/-5.97	-9.77/-14.1	-10.19/-7.74	-6.89/-7.08	-7.88/-8.41	-13.51/-17.19
Θ(45°)	-13.16/-18.62	-17.77/-16.54	-18.74/-15.75	-16.19/-11.23	-11.11/-12.55	-12.26/-17.36	-8.34/-14.23	-14.03/-8.37	-11.51/-7.64	-8.97/-16.25	-8.97/-8.93	-11.62/-16.6	-18.92/-17.83	-17.73/-13.72	-9.7/-13.96	-12.86/-13.23	-8.89/-9.18	-7.36/-5.4	-6.15/-8.2	-13.1/-14.36	-8.57/-8.39	-9.65/-7.78	-7.26/-7.56	-10.86/-16.84
Θ(52.5°)	-14.32/-18.55	-18.86/-18.5	-18.7/-12.96	-12.3/-8.77	-8.72/-9.4	-15.41/-17.95	-11.74/-12.8	-7.74/-14.79	-9.57/-13.71	-15.95/-16.64	-10.15/-12.43	-17.55/-10.28	-13.66/-16.42	-9.93/-11.48	-8.62/-14.05	-14.21/-19.16	-10.83/-6.52	-9.14/-7.02	-7.41/-9.85	-13.47/-12.18	-8.23/-7.99	-15.78/-14.94	-13.19/-11.35	-12.42/-18.36
Θ(60°)	-16.57/-14.8	-19.66/-18.3	-18.1/-18.31	-14.29/-17.45	-10.93/-12.75	-11.97/-17.7	-14.33/-9.34	-9.88/-11.99	-9.06/-17.75	-17.94/-15.66	-18.31/-19.28	-15.62/-9.64	-12.15/-15.02	-9.5/-16.23	-12.36/-18.21	-11.69/-18.16	-17.95/-12.16	-13.35/-13.62	-10.95/-15.39	-14.56/-12.67	-12.61/-13.93	-18.71/-17.26	-17.62/-17.75	-18.23/-18.63
Θ(67.5°)	-11.92/-19.17	-15.99/-13.71	-18.25/-11.09	-14.98/-11.74	-14.74/-18.52	-17.33/-18.21	-13.5/-12.81	-12.31/-18.51	-16.35/-12.9	-18.83/-13.96	-15.46/-19.32	-11.85/-18.5	-14.29/-16.48	-11.01/-16.13	-17.55/-18.6	-14.01/-18.92	-14.55/-13.28	-18.42/-18.83	-10.05/-17.85	-17.57/-18.49	-15.09/-14.07	-18.43/-13.91	-18.24/-18.07	
Θ(75°)	-13.22/-17.77	-16.98/-12.57	-10.98/-8.88	-12.31/-8.93	-8.45/-17.5	-17.08/-11.96	-12.59/-11.82	-12.84/-17.29	-10.46/-13.6	-16.81/-13.95	-18.32/-15.31	-12.64/-11.3	-10.39/-12.04	-8.43/-11.08	-14.33/-14.37	-15.43/-12	-11.38/-14.6	-10.54/-6.8	-19.29/-13.78	-9.02/-18.93	-18.36/-14.12	-14.88/-11.92	-18.84/-14.93	-18.83/-18.02
Θ(82.5°)	-19.09/-18.22	-18.2/-14.27	-10.41/-7.97	-14.02/-7.4	-8.67/-9.52	-9/-10.87	-14.57/-8.1	-18.3/-13.79	-11.67/-13.51	-13.81/-14.04	-18.9/-14.02	-18.65/-7.04	-6.3/-12.3	-9.68/-10.8	-16.96/-18.68	-19.05/-10.62	-10.2/-8.1	-8.04/-5.01	-18.33/-10.68	-8.78/-13.73	-14.11/-11.58	-13.73/-14	-18.19/-18.99	-17.97/-17.75
Θ(90°)	-18.31/-17.93	-17.93/-14.43	-11.61/-10.81	-18.63/-8.48	-9.62/-6.73	-10.46/-10.08	-13.07/-10	-18.61/-9.67	-14.8/-11.6	-14.87/-13.88	-18.66/-10.6	-15.39/-6.89	-9.31/-17.64	-9.12/-17.61	-16.65/-18.38	-18.03/-11.59	-11.49/-9.1	-8.07/-7.1	-13.86/-10.64	-10.66/-13.58	-15.6/-16.51	-18.6/-19.21	-18.53/-18.37	
Θ(97.5°)	-18.77/-16.99	-19.16/-14.91	-13.85/-14.6	-17.35/-10.07	-10.32/-6.51	-12.12/-11.91	-10.79/-10.17	-18.27/-9.82	-17.69/-12.63	-15.34/-12.13	-18.69/-10.58	-12.4/-9	-10.44/-18.17	-13.67/-18.49	-18.5/-18.6	-17.36/-12.16	-14.61/-10.87	-11.31/-12.15	-13.89/-12.55	-14.29/-13.68	-9.13/-11.71	-14.36/-19.36	-18.65/-14.23	-17.42/-17.32
Θ(105°)	-18.27/-17.59	-18.17/-18.8	-13.89/-17.81	-18.67/-14.59	-12.56/-8.08	-12.8/-11.3	-9.87/-10.22	-18.49/-11.28	-16.18/-14.81	-15.81/-12.18	-18.26/-12.93	-11.47/-16.22	-14.65/-18.67	-18.99/-18.95	-17.26/-13.6	-18.69/-13.19	-11.6/-15.3	-14.69/-18.61	-15.71/-13.56	-18.83/-7.93	-8.34/-15.33	-17.87/-18.11	-19.07/-13.35	-17.92/-18.84
Θ(112.5°)	-19.02/-16.45	-18.9/-18.31	-14.11/-19.17	-18.48/-18.61	-10.18/-8	-13.73/-12.05	-14.53/-10.7	-19.18/-15	-16.98/-19.23	-12.49/-13.98	-18.82/-17.68	-17.62/-19.11	-18.53/-12.36	-18.99/-18.1	-14.23/-18.51	-16.47/-14.54	-14.91/-18.57	-14.28/-6.51	-13.11/-16.59	-18.45/-18.95	-15.14/-15.97	-14.03/-18.4		
Θ(120°)	-19.03/-17.56	-18.43/-17.81	-16.15/-18.83	-12.27/-15.85	-18.07/-10.65	-7.81/-9.22	-14.34/-15.67	-18.17/-17.55	-17.93/-17.48	-12.98/-18.59	-14.71/-18.14	-18.87/-18.32	-18.71/-18.71	-18.66/-19.4	-17.36/-11	-18.38/-18.23	-18.73/-18.36	-19.75/-16.05	-18.87/-18.85	-13.82/-9.93	-19.13/-19.01	-18.48/-16.53	-15.82/-13.61	-15.79/-18.49
Θ(127.5°)	-18.73/-17.45	-19.18/-17.94	-19.03/-14.53	-13.19/-12.86	-18.94/-17.95	-12.66/-9.61	-14.09/-15.6	-18.9/-18.36	-12.31/-17.95	-14.86/-18.94	-17.35/-14.37	-19.28/-17.88	-17.93/-19.26	-16.91/-18.88	-17.88/-15.99	-15.54/-18.58	-14.35/-19.06	-16.74/-14.87	-18.71/-18.25	-18.05/-14.57	-16.53/-18.3	-19.36/-17.3	-10.57/-18.92	-17.11/-17.69
Θ(135°)	-18.14/-18.47	-17.12/-12.22	-16.42/-9.81	-15.82/-17.47	-17.75/-13.28	-18.05/-18.96	-15/-19.08	-16.3/-18.88	-11.47/-18.22	-18.42/-18.75	-15.19/-13.99	-18.28/-13.33	-18.02/-14.06	-17.9/-18.43	-18.48/-15.29	-13.83/-8.5	-16.12/-17.41	-18.86/-11.15	-18.62/-19.02	-16.1/-12.4	-18.52/-17.32	-18.42/-9.63	-14.96/-13.61	-12.58/-15.84
Θ(142.5°)	-15.83/-17.3	-18/-14.17	-16.05/-16.83	-19.12/-17.74	-13.64/-15.83	-18.62/-19.74	-19.38/-14.75	-16.4/-17.35	-17.48/-18.63	-19.04/-14.21	-14.25/-18.69	-19.19/-18.88	-17.65/-16.65	-18.56/-17.18	-17.57/-18.26	-18.98/-18.64	-16.78/-17.99	-14.08/-16.19	-18.83/-18.64	-16.66/-18.15	-18.95/-18.44	-18.65/-12.83	-14.24/-11.2	-14.34/-9.77
Θ(150°)	-17.16/-18.29	-17.99/-17.42	-15.96/-16.09	-14.69/-16.43	-13.06/-13.81	-16.57/-18.59	-15.33/-15.03	-18.04/-18.62	-14.58/-19.58	-16.88/-16.41	-17.97/-19.14	-15.44/-17.42	-18.09/-16.97	-18.64/-11.44	-14.85/-18.04	-19.66/-18.91	-17.54/-17.86	-17.86/-18.26	-18.72/-17.66	-18.58/-18.71	-18.6/-16.32	-19.34/-17.89	-11.36/-9.99	-18.68/-16.03
Θ(157.5°)	-13.17/-18	-13.25/-11.07	-14.28/-12.41	-13.52/-16.76	-18.77/-18.67	-18.31/-18.25	-17.6/-12.4	-14.89/-17.92	-13.9/-17.55	-18.72/-18.45	-17.46/-18.1	-18.22/-14.93	-14.88/-19.06	-17.4/-18.79	-19.06/-19.25	-16.53/-17.39	-18.34/-17.74	-16.85/-18.94	-17.88/-18.44	-19.03/-18.28	-19.03/-18.73	-18.12/-14.38	-13.32/-19.06	-11.8/-10.99
Θ(165°)	-18.48/-19.17	-16.99/-13.32	-13.56/-18.2	-18.1/-17.88	-18.46/-18.5	-18.69/-18.66	-19.01/-18																	



-

Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 2 Max Gain (dBi)	3.38	4	5.81	4.76
Ant. 3 Max Gain (dBi)	3.54	2.54	3.51	3.97
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/67.5/0	Theta/67.5/157.5	Theta/67.5/97.5	Theta/75/97.5
Ant. 3 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/82.5/307.5	Theta/75/135	Theta/82.5/270	Theta/82.5/300
Max Gain (dBi)	3.54	4	5.81	4.76
DG [1SS] (dBi)	5.03	5.33	6.74	6.33
DG [2SS] (dBi)	3.54	4	5.81	4.76





Radiated Composite Gain Data_Radio 2 (2TX)

Appendix B.2

Θ(22.5°)	-2.04/-1.75	-2.16/-3.6	-5.34/-8.61	-10.44/-11.54	-10/-7.93	-7.19/-7.03	-8.46/-10.98	-9.92/-7.23	-5.25/-4.77	-4.96/-3.42	-3.2/-4.64	-5.72/-4.93	-4.32/-4.7	-5.43/-6.51	-7.5/-8.86	-8.28/-8.33	-10.33/-11.36	-10.15/-9.84	-9.52/-6.6	-3.55/-3.42	-5.26/-7.57	-8.78/-6.79	-5.08/-4.02	-3.36/-3.29
Θ(30°)	-2.33/-2.61	-4.74/-6.02	-6.65/-9.65	-8.64/-14.03	-10.99/-10.84	-9.57/-6.38	-9.05/-11.36	-10.6/-10.3	-8.03/-8.3	-9.4/-6.17	-4.23/-3.03	-1.88/-1.09	-1.04/-2.43	-4.5/-7.6	-9.64/-14.63	-12.32/-12.86	-14.26/-15.56	-13.48/-11.46	-8.55/-8.67	-6.6/-6.12	-8.98/-12.51	-14.62/-13.26	-11.19/-8.1	-6.2/-3.24
Θ(142.5°)	-5.66/-4.94	-9.61/-12.31	-10.32/-8.75	-7.89/-7.96	-8.36/-10.28	-12.49/-10.23	-9.51/-10.61	-15.12/-14.75	-10.47/-5.69	-6.61/-5.49	-2.44/-3.64	-4.81/-2.44	-2.44/-3.64	-5.44/-6.13	-8.4/-14.4	-13.55/-8.69	-8.37/-10.86	-13.72/-8.88	-7.2/-9.89	-13.72/-9.55	-7.22/-8.66	-9.31/-8.02	-9.38/-11.38	-8.53/-7.04
Θ(45°)	-8.45/-6.72	-7.92/-8.75	-7.64/-8.86	-8.19/-5.5	-5.88/-7.02	-8.28/-12.65	-8.25/-6.49	-14.9/-10.06	-6.17/-4.98	-5.97/-6.57	-8.94/-10.25	-9.84/-5.52	-3.53/-5.65	-6.87/-8.4	-6.47/-8.68	-7.73/-12.57	-9.13/-6.92	-8.19/-10.08	-8.76/-6.6	-11.55/-4.95	-8.13/-9.03	-10.25/-6.89	-6.9/-9.98	-7.82/-7.02
Θ(52.5°)	-15.39/-11.29	-4.66/-5.7	-7.73/-8.98	-8.95/-8.31	-10.15/-7.11	-7.65/-8.42	-8.91/-9.51	-9.4/-3.31	-5.11/-6.89	-8.76/-5.77	-8.44/-6.98	-9.77/-11.2	-11.16/-10.49	-8.1/-9.59	-7.23/-8.83	-8.12/-13.31	-9.64/-14.78	-11.5/-10.38	-9.62/-9.39	-9.59/-10.08	-12.02/-6.46	-8.98/-6.28	-7.32/-8.16	-7.6/-7.54
Θ(60°)	-9.44/-10.29	-5.1/-9.5	-9.51/-13.83	-12.37/-8.25	-13.84/-15.22	-14.16/-7.51	-10.55/-10.59	-7.06/-4.7	-9.69/-8.55	-11.86/-7.32	-10.04/-6.93	-6.51/-9.29	-9.02/-9.27	-10.03/-10.78	-9.78/-8.75	-12.72/-7.59	-13.65/-13.73	-15.97/-11.79	-11.59/-11.07	-10.65/-16.04	-11.4/-8.4	-8.65/-13.81	-14.91/-10.86	-10.96/-14.48
Θ(67.5°)	-7.9/-11	-10.86/-14.98	-8.3/-13.38	-15.26/-11.21	-13.26/-13.04	-9.2/-8.91	-14.31/-13.91	-12.15/-10.37	-11.83/-11.98	-8.26/-9.23	-14.88/-7.06	-5.96/-12.19	-9.36/-10.15	-11.91/-12.63	-12.32/-12.06	-14.37/-7.57	-10.94/-14.86	-14.42/-15.14	-11.8/-11.27	-15.36/-11.86	-15.29/-14.21	-12.68/-14.61	-9.49/-10.23	-15.03/-10.67
Θ(75°)	-11.14/-15.72	-8/-12.53	-5.95/-13.69	-12.08/-15.13	-11.73/-15.91	-7.06/-9.54	-12.1/-9.3	-15.8/-12.11	-9.02/-7.51	-6.48/-7.88	-11.54/-9.53	-5.82/-9.48	-10/-12.84	-11.24/-12.26	-7.84/-15.33	-9.64/-10.21	-10.85/-11.02	-10.86/-15.7	-15.15/-12.19	-13.27/-11.56	-12.54/-8.53	-11.65/-10.46	-7.24/-7.35	-7.68/-5.75
Θ(82.5°)	-13.71/-13.26	-5.62/-8.73	-5.21/-12.09	-7.56/-13.83	-8.74/-13.55	-5.68/-11.91	-12.67/-10.28	-15.52/-10.16	-7.51/-7.32	-8.06/-7.98	-9.67/-8.67	-5.77/-8.62	-9.27/-14.56	-11.05/-9.63	-6/-14.96	-8.55/-10.05	-14.24/-10.94	-10.89/-15.95	-14.95/-11.12	-9.07/-13	-7.8/-4.64	-10.06/-12.94	-7.56/-8.58	-4.54/-5.1
Θ(90°)	-12.54/-10.93	-5.22/-8.25	-7.02/-10.51	-7.52/-14.82	-10.9/-11.93	-7.26/-14.11	-12.92/-11.55	-14.98/-12.34	-7.55/-9.17	-10.01/-8.7	-9.81/-9.22	-6.1/-7.63	-10.62/-13.06	-11.3/-10.54	-6.71/-13.94	-11/-8.87	-13.79/-14.52	-11.07/-13.81	-13.42/-15.49	-7.94/-13.27	-7.53/-5.69	-12.18/-15.86	-10.39/-11.1	-4.11/-5.78
Θ(97.5°)	-11.22/-9.72	-6.49/-8.92	-10.37/-9.79	-9.78/-14.75	-16.05/-8.07	-8.73/-14.39	-13.98/-13.21	-13.76/-13.3	-8.66/-10.93	-11.45/-9.88	-10.07/-9.9	-8.08/-7.81	-10.67/-14.62	-11.13/-11.25	-9.47/-16.32	-15.61/-11.27	-13.24/-14.95	-13.17/-14.06	-14.69/-15.36	-12.14/-13.37	-11.02/-7.57	-15.31/-14.7	-12.2/-12.58	-5.63/-8.02
Θ(105°)	-12.87/-9.22	-7.96/-11.56	-14.53/-11.25	-14.1/-15.2	-15.29/-10.35	-10.26/-12.13	-12.79/-14.3	-9.8/-10.33	-8.65/-13.53	-11.71/-10.61	-9.77/-11.52	-10.69/-9.19	-12.03/-14.59	-12.43/-10.42	-9.97/-14.19	-15.41/-12.39	-10.3/-16.26	-11.52/-13.41	-13.89/-14.63	-15.42/-12.38	-9.94/-8.9	-15.35/-13.23	-13.68/-14.65	-7.28/-10.36
Θ(112.5°)	-15.13/-11.14	-13.65/-15.08	-12.3/-12.94	-14.8/-13.94	-14.76/-10.96	-13.21/-12.5	-11.52/-14.98	-7.94/-12.67	-10.9/-13.56	-13.79/-10.2	-7.92/-14.28	-14/-9.49	-13.75/-14.62	-13.43/-11.54	-11.72/-14.86	-15.67/-13.98	-9.02/-15.3	-12.85/-14.05	-15.72/-14.87	-15.66/-12.06	-13.33/-10.87	-15.15/-11.5	-12.08/-12.99	-10.33/-12.84
Θ(120°)	-15.14/-15.13	-10.36/-16.08	-13.91/-13.73	-15.25/-13.31	-10.36/-11.59	-15.36/-14.83	-12.21/-13.58	-8.93/-11.14	-12.02/-10.53	-12.44/-13.32	-7.6/-12.4	-12.13/-12.54	-15.82/-15.55	-12.67/-11.43	-12.11/-11.97	-15.23/-13.26	-11.88/-11.16	-16.33/-15.25	-15.65/-13.27	-11.87/-12.99	-12.07/-15.6	-11.8/-13.12	-14.02/-11.88	-13.01/-11.8
Θ(127.5°)	-13.23/-11.59	-13.39/-12.83	-15.15/-15.14	-12.82/-15.81	-7.49/-12.6	-15.08/-15.63	-9.57/-9.11	-9.8/-10.5	-14.3/-11.23	-11.78/-10.42	-10.59/-10.57	-8.75/-14.73	-14.6/-15	-12.71/-13.3	-12.04/-12.31	-15.59/-13.54	-10.66/-13.18	-15.31/-9.08	-11.83/-12.68	-10.18/-13.43	-12.67/-12.2	-13.11/-11	-13.11/-11	-13.11/-11
Θ(135°)	-14.19/-13.85	-15.07/-14.48	-15.67/-14.7	-12.41/-15.68	-8.96/-14.59	-15.28/-13.67	-8.54/-10.3	-7.78/-11.27	-10.9/-11.08	-11.57/-11.98	-15.75/-10.79	-8.87/-10.71	-12.86/-11.52	-11.21/-12.73	-10.52/-12.61	-12.24/-10.16	-15.39/-12.51	-12.09/-14.11	-12.21/-13.63	-15.38/-10.38	-11.38/-13.69	-13.18/-14.73	-9.38/-11.39	-12.61/-15.72
Θ(142.5°)	-15.28/-14.06	-5.11/-15.15	-10.61/-12.54	-14.83/-14.39	-14.94/-12.65	-12.51/-11.94	-9.15/-12.14	-7.68/-13.37	-10.48/-11.59	-12.28/-14.54	-15.41/-10.16	-8.56/-9.7	-12.23/-12.67	-8.46/-13.93	-15.97/-15.01	-12.89/-15.69	-14/-15.29	-12.85/-14.7	-12.49/-15.18	-13.72/-14.84	-13.46/-14.97	-14.34/-9.56	-14.07/-10.29	-11.71/-14.5
Θ(150°)	-13.77/-12.71	-10.91/-12.91	-11.84/-12.74	-14.1/-10.65	-9.13/-12.5	-11.57/-8.1	-9.37/-11.5	-10.53/-12.23	-11.09/-11.17	-14.21/-15.67	-15.4/-15.42	-12.71/-9.92	-9.55/-14.07	-14.62/-12.08	-14.55/-16.01	-14.48/-15.14	-15.58/-14.86	-14.14/-15.65	-15.74/-11.65	-15.74/-10.22	-14.17/-15.68	-13.67/-14.16	-14.41/-11.26	-13.91/-12.48
Θ(157.5°)	-12.52/-15.39	-14.23/-12.61	-12.5/-11.53	-14.05/-12.66	-11.14/-14.22	-15.23/-10.81	-9.96/-11.25	-11.12/-11.58	-13.6/-15.68	-15.7/-15.16	-14.48/-15.87	-14.46/-14.46	-15.31/-12.73	-12.44/-13.13	-14.15/-15.03	-15.28/-14.83	-13.51/-12.65	-15.29/-13.81	-11.93/-14.23	-15.87/-10.03	-12.77/-15.72	-15.23/-14.08	-10.12/-10.83	-13.66/-11.59
Θ(165°)	-14.39/-13.85	-12.32/-11.65	-12.55/-14.94	-13.64/-12.4	-12.61/-14.1	-14.98/-13.09	-11.63/-11.51	-14.06/-14.37	-10.25/-9.26	-8.29/-10.32	-11.49/-15.44	-15.67/-14.1	-12.94/-13.44	-13.43/-12.65	-11.64/-12.28	-14.75/-15.63	-14.19/-14.88	-10.56/-10.06	-12.37/-14.53	-14.96/-13.4	-13.94/-14.02	-14.05/-15.27	-12.66/-12.11	-13.76/-15.31
Θ(172.5°)	-8.44/-9.73	-11.36/-10.81	-12.99/-12.49	-11.87/-13.07	-12.69/-13.4	-12.32/-13.19	-14.13/-15.24	-14.65/-15.41	-13.77/-13.06	-13.31/-13.54	-13/-12.72	-11.68/-12.17	-13.81/-14.57	-15.5/-14.73	-16.27/-16.09	-15.29/-14.59	-14.34/-14.63	-15.37/-15.82	-15.25/-13.8	-13.49/-14.72	-13.38/-13.22	-12.56/-11.17	-8.71/-8.76	-12.56/-11.17
Θ(180°)	-11.58/-11.13	-10.56/-10.57	-10.86/-11.89	-11.86/-11.98	-11.38/-12.22	-12.64/-13.79	-14.12/-14.72	-15.41/-16.11	-14.71/-14.75	-15.19/-14.92	-15.06/-14.85	-15.35/-16.08	-16.04/-15.89	-15.04/-15.35	-16.04/-15.89	-16.06/-14.92	-14.92/-15.29	-13.59/-14.88	-15.61/-15.75	-14.4/-12.89	-13.49/-12.37	-12.59/-12.94	-13.62/-12.61	-11.14/-11.12
Freq(Hz)	6.995GPol.	Theta+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DC(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°)	-12.85/-10.62	-8.78/-6.74	-5.26/-4.48	-4/-3.43	-3.15/-3.06	-2.9/-3.11	-3.18/-3.57	-3.99/-4.86	-6.52/-7.86	-8.61/-11.93	-15.26/-15.2	-15.05/-14.38	-11.73/-11.59	-9.34/-7.67	-6.25/-5.3	-4.85/-3.75	-3.11/-2.8	-2.99/-3.05	-3.14/-3.52	-4.17/-5	-5.73/-7.42	-9.18/-11.35	-13.62/-14.8	-15.95/-14.97
Θ(7.5°)	-10.59/-10.55	-10.12/-9.06	-7.87/-6.59	-5.76/-4.5	-3.74/-3.44	-3.42/-3.13	-2.96/-2.48	-2.96/-3.49	-4.45/-4.98	-5.9/-7.72	-10.82/-14.43	-15.54/-13.59	-10.46/-7.91	-6.1/-4.38	-3.09/-2.68	-2.39/-1.94	-1.64/-1.6	-2.29/-3.1	-3.69/-4.47	-5.23/-5.94	-6.1/-6.95	-8.01/-9.4	-9.52/-10.14	-10.96/-10.62
Θ(15°)	-4.22/-4.86	-5.68/-6.05	-5.47/-4.98	-4.53/-4.38	-4.09/-3.37	-2.31/-1.37	-1.11/-1.34	-1.82/-2.52	-3.28/-5.13	-6.21/-7.35	-8.94/-10.69	-13.51/-10.13	-9.29/-6.87	-4.98/-3.12	-2/-1.19	-1.26/-2.26	-3.51/-4.52	-5.12/-6.17	-7.52/-7.48	-6.55/-5.39	-5.12/-4.51	-4.51/-4.98	-4.92/-4.09	-4.92/-4.09
Θ(22.5°)	-3.94/-5.32	-5.48/-5.74	-4.7/-3.41	-3.37/-3.73	-4.13/-4.84	-4.1/-2.02	-2/-3.11	-4.32/-5.38	-6.77/-5.45	-3.32/-3.11	-5.57/-7.62	-7.74/-8.59	-9.41/-9.24	-7.63/-5.78	-5.15/-4.94	-3.48/-3.13	-3.12/-3.92	-4.2/-4.03	-3.65/-3.54	-3.54/-3.44	-3.39/-3	-2.98/-2.82	-2.83/-3.4	-3.31/-3.37
Θ(30°)	-1.2/-1.42	-1.34/-1.93	-2.59/-1.9	-2.52/-5.18	-5.61/-3.4	-1.11/-1.08	-2.02/-2.16	-1.72/-1.58	-2.27/-3.85	-2.3/-2.18	-6.65/-12.49	-9.91/-9.08	-7.31/-6.53	-6.57/-5.51	-3.75/-2.56	-1.020/-3.1	0.540/-3	-0.53/-0.96	-2.03/-3.12	-4.52/-5.75	-4.05/-0.65	0.61/-0.16	-1.93/-2.12	-0.77/-0.4
Θ(37.5°)	1.01/-0.29	-1.26/-2.22	-1.620/-44	0.871/-3.5	-3.81/-4.72	-3.68/-2.7	-2.96/-3.1	-2.11/-0.51	-0.54/-3.55	-4.07/-4.92	-8.03/-6.5	-6.08/-6.57	-6.25/-4.61	-7.59/-8	-2.57/-0.67	0.020/-19	-0.26/-1.28	-0.96/-2.43	-6.45/-9.39	-5.1/-1.07	0.842/-21	2.651/-64	0.40/-16	-0.440/-64
Θ(45°)	1.671/-54	0.51/-2.39	-2.980/-63	0.040/-0.28	0.110/-51	-3.63/-2.66	-1.94/-4.51	-0.94/-0.68	0.28/-2.24	-0.27/-2.61	-3.93/-3.85	-2.59/-1.02	-0.930/-16	1.24/-1.07	-0.940/-52	0.890/-77	0.51/-1.61	-1.51/-0.65	-3.7/-5.45	-0.880/-63	0.034/-07	0.680/-28	-0.52/-1	1.390/-99
Θ(52.5°)	1.2/-2	2.18/-0.49	-0.923/-24	1.94/-0.7	-1.430/-85	0.23/-3	-3.192/-13	3.61/-96	1.36/-15	0.781/-54	1.92/-1	0.60/-32	-0.420/-7	3.12/-15	1.021/-18	0.75/-0.7	-0.4/-1.23	-0.35/-1.76	-1.94/-3.26	-2.11/-2.09	0.481/-99	3.792/-59	1.052/-25	2.852/-13
Θ(60°)	3.024/-06	3.020/-51	0.253/-73	2.30/-79	0.13/-1.25	1.920/-8	1.716/-22	5.593/-34	2.961/-8	1.752/-61	3.84/-35	3.512/-51	2.32/-72	2.883/-56	2.732/-24	0.32/-0.15	0.63/-3	-0.34/-1.07	-6.36/-6.78	1.183/-36	3.32/-82	0.962/-17	2.092/-8	-0.440/-64
Θ(67.5°)	5.114/-07	4.02/-98	0.450/-26	0.430/-45	2.1/-16	2.586/-74	4.862/-76	2.943/-67	3.423/-73	3.634/-61	5.114/-27	4.64/-75	3.493/-98	3.532/-87	1.30/-69	-1.120/-16	2.624/-19	1.490/-9	-4					



-

Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	3.06	3.81	3.38	3.2	2.54	3.32	3	4.97	4.81
Ant. 2 Max Gain (dBi)	2.52	3.21	2.86	3.11	3.78	3.22	4.16	3	3.45
Ant. 3 Max Gain (dBi)	3.05								
Ant. 1 Polarization/Θ(°)/Φ(°)	Theta/60/270	Theta/67.5/60	Theta/67.5/60	Theta/75/37.5	Theta/52.5/0	Theta/67.5/75	Theta/67.5/75	Theta/75/75	Theta/75/75
Ant. 2 Polarization/Θ(°)/Φ(°)	Theta/60/90	Theta/75/142.5	Theta/82.5/217.5	Theta/60/120	Theta/60/127.5	Theta/75/255	Theta/75/255	Theta/75/105	Theta/82.5/202.5
Ant. 3 Polarization/Θ(°)/Φ(°)	Theta/60/262.5								





Radiated Composite Gain Data Radio 3 & Radio 4

Appendix C

Θ (15°)	-3.48/-2.7	-2.61/-2.87	-3.46/-3.28	-3.07/-3.09	-2.76/-2.95	-3.51/-4.3	-6/-7.16	-6.97/-6.21	-5.43/-4.33	-3/-2	-1.51/-1.5	-1.7/-2.39	-2.96/-3.21	-3.78/-4.63	-5.43/-5.7	-6.34/-6.8	-7.1/-7.2	-6.51/-6.14	-5.8/-5.13	-5.17/-5.54	-5.68/-6.22	-7.07/-6.9	-6.26/-5.68	-5.86/-4.75
Θ (22°)	-3.61/-1.95	-1.28/-1.67	-2.83/-3.86	-4.54/-4.2	-3.08/-2.17	-2.3/-3.93	-6.57/-7.32	-7.16/-7.37	-7.45/-6.22	-4.67/-3.16	-2.25/-2.16	-2.75/-3.81	-5.86/-7.84	-7.95/-7.66	-7.01/-6.86	-7.52/-6.28	-10.02/-11.07	-10.75/-9.54	-8.25/-5.96	-4.87/-5.39	-6.59/-6.16	-8.46/-9.57	-11.21/-10.48	-8.46/-7.19
Θ (30°)	-1.83/-0.98	-1.58/-1.36	-5.03/-5.44	-4.35/-3.65	-3.84/-2.5	-2.05/-3.69	-6.42/-8.05	-9.59/-9.87	-7.82/-7.22	-5.87/-4.41	-2.7/-1.01	-0.65/-2.03	-4.18/-6.33	-5.79/-5.1	-5.89/-6.8	-8.36/-11.47	-14.24/-16.86	-17.58/-13.95	-11.85/-9.07	-5.89/-5.51	-5.08/-5.03	-4.92/-5	-5.51/-5.98	-4.52/-4.84
Θ (37.5°)	-4.48/-2	-2.21/-3.63	-6.03/-6.64	-5.46/-2.97	-3.14/-3.77	-4.78/-3.78	-3.91/-7.67	-8.08/-5.54	-5.12/-7.12	-6.74/-6.37	-5.77/-2.01	-0.23/-1.71	-3.58/-5.33	-4.19/-2.63	-4.11/-5.98	-9.33/-16.22	-17.91/-17.97	-18.3/-15.85	-12.46/-12.25	-8.18/-6.21	-7.63/-7.89	-7.43/-6.37	-6.29/-7.65	-7.22/-7.02
Θ (45°)	-4.39/-8.74	-8.62/-2.74	-2.14/-2.29	-1.83/-3	-4.44/-3.55	-6.14/-5.73	-2.67/-1.81	-5.6/-3.94	-4.78/-4.41	-2.99/-4.52	-1.61/-3.42	-1.24/-2.4	-4.39/-5	-4.26/-1.72	-3.24/-7.1	-10.92/-11.59	-16.06/-19.04	-17.53/-17.36	-9.98/-13.12	-10.25/-6.6	-8.73/-6.51	-7.01/-9.86	-8.21/-8.33	-6.41/-1.08
Θ (52.5°)	-6.88/-6.22	-0.98/-3.77	-3.25/-2.06	0.16/-1.57	-10.52/-4.42	-3.88/-9.56	-3.26/-9.86	-5.28/-7.37	-5.16/-2.74	-2.04/-5.83	-4.64/-2.84	-2.58/-2.41	-3.55/-4.04	-4.59/-4.65	-5.31/-6.2	-8.89/-10.49	-9.08/-17.7	-12.73/-18.55	-9.08/-14.41	-12.68/-9.81	-10.28/-5.45	-6.39/-8.66	-18.18/-14.9	-6.05/-2.12
Θ (60°)	-5.92/-0.83	-3.76/-3.33	-5.14/-7.52	-3.75/-4.13	-10.66/-8.59	-3.95/-5.66	-5.41/-10.73	-6.2/-8.46	-7.61/-7.57	-5.79/-6.23	-4.76/-3.55	-3.2/-2.12	-2.52/-3.86	-5.76/-6.82	-5.42/-4.71	-5.31/-6.41	-8.91/-11.48	-14.86/-13.79	-13.6/-12.71	-15.58/-11.77	-9.84/-5.89	-7.93/-8.07	-6.24/-1.82	-9.12/-12.02
Θ (67.5°)	-3.78/-0.8	-2.69/-3.89	-4.41/-6.1	-8.08/-11.19	-10.08/-9.37	-5.14/-5.91	-8.24/-14.62	-8.68/-10.76	-13.38/-14.59	-13.6/-9.22	-4.96/-4.29	-4.76/-3.92	-2.83/-3.61	-5.09/-6.07	-4.61/-5.15	-12.92/-12.56	-12.66/-13.4	-18.36/-11.16	-15.1/-14.92	-18.36/-11.16	-15.1/-14.92	-9.89/-2.99	-9.9/-6.45	-2.60/-6.6
Θ (75°)	-4.12/-3.61	-4.18/-5.23	-4.04/-4.11	-4.32/-14.83	-7/-8.11	-8.49/-8.34	-11.17/-18.46	-10.49/-14.58	-15.68/-17.86	-11.14/-13.19	-8.11/-4.94	-5.58/-7.17	-4.09/-3.96	-6.94/-6.52	-5.65/-5.36	-5.69/-4.41	-11.93/-14.41	-13.05/-12.57	-11.93/-10.9	-12.51/-17.83	-13.95/-15.37	-12.57/-9.14	-3.29/-0.55	-3.48/-4.78
Θ (82.5°)	-6.13/-6.9	-6.01/-8.62	-4.77/-4.56	-3.67/-10.44	-10.44/-8.33	-9.5/-10.3	-15.49/-18.13	-16.17/-13.17	-11.17/-18.24	-17.77/-17.35	-13.61/-7	-7.49/-10.65	-5.12/-4.73	-7.04/-6.48	-5.58/-6.89	-8.89/-6.79	-14.31/-18.27	-12.77/-13.17	-12.51/-11.01	-12.21/-15.95	-14.85/-18.61	-8.92/-13.48	-5.71/-2.81	-5.02/-5.14
Θ (90°)	-7.99/-8.64	-8.85/-13.42	-6.22/-9.92	-4.51/-9.21	-12.37/-8.57	-12.05/-14.79	-16.68/-18.61	-17.95/-10.47	-9.55/-16.66	-15.03/-17.94	-18.41/-8.38	-8.32/-12.87	-7.96/-5.81	-8.86/-8.6	-7.06/-8.31	-9.93/-9.86	-12.22/-17.96	-15.25/-16.74	-9.14/-14.92	-10.94/-14.55	-18.37/-19.05	-7.77/-18.26	-9.13/-6.26	-8.01/-7.92
Θ (97.5°)	-10.32/-10.84	-12.46/-17.16	-5.91/-7.73	-6.51/-10.89	-10.7/-9.08	-18.46/-18.74	-16.51/-17.44	-15.89/-11.51	-11.34/-17.27	-13.07/-15.83	-18.22/-10.9	-10.36/-16.99	-12.51/-6.92	-11.43/-9.43	-9.03/-10.28	-13.82/-12.2	-13.44/-15.98	-18.18/-18.42	-10.34/-15.28	-15.54/-17.46	-18.74/-15.63	-9.3/-18.59	-12.19/-13.81	-11.14/-11.4
Θ (105°)	-13.49/-12.97	-16.21/-10.41	-7.67/-10.08	-9.25/-9.09	-13.37/-10.68	-19.3/-18.97	-11.81/-15.59	-17.74/-11.71	-10.69/-14.42	-12.27/-13.06	-12.67/-11.79	-12.26/-19	-10.12/-8.15	-11.67/-10.8	-9.25/-10.35	-13.79/-13.48	-16.77/-17.34	-17.09/-18.06	-13.53/-13.99	-15.72/-17.9	-16.98/-11.51	-13.85/-16.94	-18.61/-16.6	-17.54/-13.71
Θ (112.5°)	-18.19/-12.51	-12.29/-8.94	-9.92/-14.4	-10.23/-9.81	-14.29/-12.44	-18.04/-18.17	-11.17/-18.21	-18.4/-11.59	-10.75/-11.04	-11.95/-12.83	-14.66/-11.63	-14.15/-18.69	-12.81/-8.64	-15.2/-16.82	-10.13/-10.05	-18.56/-11.24	-15.11/-15.75	-17.99/-16.93	-16.06/-14.99	-16/-13.52	-17.68/-14.78	-16.02/-14.14	-17.69/-18.99	-18.77/-12.23
Θ (120°)	-17.25/-9.87	-12.69/-8.58	-17.25/-17.55	-9.68/-11.23	-14.25/-16.97	-17.94/-18.55	-11.52/-17.54	-10.33/-10.81	-11.4/-7.95	-11.97/-12.66	-17.39/-13.18	-16.78/-18.76	-13.93/-9.43	-11.83/-18.93	-16.23/-12.94	-14.97/-14.86	-12.84/-12.76	-19.18/-17.19	-16.13/-15.63	-18/-10.82	-18.99/-12.45	-17.17/-19.36	-14.66/-12.74	-18.63/-8.55
Θ (127.5°)	-17.87/-7.15	-11.57/-14.02	-16.5/-13.1	-9.01/-14.95	-13.26/-17.82	-18.14/-19.17	-12.14/-16.21	-16.86/-10.7	-12.91/-10.7	-12.25/-16.27	-18.26/-11.51	-17.25/-18.96	-18.54/-10.25	-11.68/-15.01	-18.93/-11.97	-13.59/-12.88	-17.12/-15.12	-18.51/-16.44	-16.47/-18.35	-15.8/-12.17	-18.44/-12.25	-12.81/-12.18	-17.68/-12.38	-18.01/-9.74
Θ (135°)	-16.49/-9.64	-11.94/-16.26	-11.43/-13.67	-10.16/-17.7	-13.89/-17.48	-19.07/-11.89	-14.49/-16.13	-14.48/-14.28	-10.43/-10.11	-16.49/-16.97	-11.86/-16.71	-16.38/-18.4	-17.97/-14.9	-17.17/-18.86	-14.72/-17.83	-13.82/-18.57	-16.08/-19.32	-14.22/-19.09	-17.11/-18.07	-18.89/-15.18	-18.66/-18.91	-18.71/-11.09	-11.66/-17.18	-18.79/-12.43
Θ (142.5°)	-16.58/-9.99	-16.15/-15.3	-10.87/-17.51	-16.25/-18.1	-17.43/-18.34	-18.64/-18.01	-16.93/-18.22	-14.67/-13.84	-15.92/-17.48	-18.26/-16.68	-15.07/-12.84	-15.45/-13.3	-15.83/-17.25	-13.73/-14.45	-17.58/-15.91	-18.52/-18.93	-18.45/-19.29	-18.48/-19.53	-18.32/-18.55	-18.43/-18.54	-16.13/-17.42	-16.63/-17.65	-15.56/-13.94	
Θ (150°)	-18.97/-16.33	-18.33/-15.59	-12.71/-17.65	-18.23/-18.21	-18.16/-17.39	-18.58/-18.15	-18.8/-19.19	-18.59/-17.58	-19.18/-17.42	-18.66/-18.24	-15.02/-13.54	-13.34/-12.12	-19.45/-19.18	-17.29/-18.21	-18.49/-19.37	-17.44/-19.16	-18.21/-18.74	-17.87/-18.35	-15.29/-16.49	-18.9/-17.85	-17.64/-18.54	-17.76/-18.96	-17.54/-17.02	-13.14/-17.92
Θ (157.5°)	-17.24/-18.2	-18.17/-16.9	-15.36/-15.49	-19.11/-19.13	-17.66/-18.06	-17.94/-14.48	-12.84/-13.39	-15.35/-17.69	-16.15/-14.09	-13.59/-15.51	-16.34/-17.19	-18.26/-17.62	-19.05/-18.57	-17.37/-15.51	-17.42/-18.71	-19.22/-19.21	-18.13/-16.71	-19.09/-16.24	-16.35/-18.3	-19.1/-13.23	-18.48/-18.03	-18.67/-18.46	-17.48/-18.51	-18.78/-18.9
Θ (165°)	-17.21/-18.81	-17.89/-19.48	-18.83/-17.91	-16.4/-14.37	-14.41/-15.26	-16.97/-15.53	-13.26/-13.3	-13.06/-13.78	-15.25/-16.2	-17.43/-17.12	-16.95/-16.73	-15.59/-16.8	-17.81/-18.94	-18.16/-18.08	-17.4/-17.05	-17.96/-18.02	-19.35/-16.72	-15.58/-19.13	-19.12/-17.63	-18.96/-18.13	-19.61/-18.18	-19.27/-17.71	-18.72/-18.4	-17.74/-17.5
Θ (172.5°)	-18.33/-19.02	-18.81/-18.85	-19.6/-19.06	-17.72/-16.13	-15.66/-15.53	-16.37/-16.54	-16.13/-15.51	-17.48/-17.19	-16.64/-15.78	-13.22/-11.76	-12.25/-12.37	-12.4/-14.06	-16.57/-17.64	-18.47/-18.67	-17.42/-17.47	-18.36/-18.78	-17.59/-17.21	-18.42/-17.54	-18.94/-18.94	-17.64/-18.28	-18.6/-18.21	-15.24/-14.79	-17.37/-18.29	-17.46/-18.63
Θ (180°)	-15.19/-16.94	-16.21/-16.7	-16.39/-17.23	-18.04/-18.48	-18.3/-18.69	-18.02/-17.26	-18.03/-19.14	-18.74/-18.97	-18.11/-17.15	-17.37/-17.84	-17.19/-16.98	-18.2/-17.62	-18.89/-18.31	-18.06/-18.26	-19.06/-18.61	-18.6/-17.78	-17.26/-19.03	-18.17/-19.04	-18.83/-18.27	-18.35/-17.75	-18.09/-18	-17.79/-18.54	-18.38/-16.18	-15.12/-14.6
Freq(Hz)	5.3GPol.	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°)	-8.03/-8.51	-8.88/-9.09	-9.43/-10.76	-11.93/-11.7	-10.39/-9.5	-8.74/-4.73	-6.78/-9.56	-5.15/-4.44	-4.51/-5.1	-5.22/-3.99	-3.64/-4.5	-5.34/-5.63	-6.63/-6.76	-6.86/-7.3	-8.17/-8.46	-8.74/-8.28	-7.91/-7.74	-7.22/-6.55	-5.86/-5.53	-6.04/-6.03	-6.05/-5.15	-4.84/-5	-5.84/-6.17	-5.99/-6.57
Θ (7.5°)	-4.97/-4.59	-5.37/-5.28	-5.51/-5.67	-5.75/-5.61	-5.43/-5.72	-5.85/-5.64	-5.84/-5.67	-5.07/-5.43	-4.78/-5.56	-11.11/-11.54	-6.75/-7.18	-6.53/-6.77	-8.23/-11.54	-7.17/-11.57	-10.86/-10.03	-8.72/-8.82	-8.11/-7.44	-6.61/-6.14	-5.35/-4.71	-6.63/-6.22	-3.64/-3.09	-2.95/-3.02	-3.29/-3.65	-4.18/-4.43
Θ (15°)	-8.08/-10.47	-10.03/-9.51	-9.41/-9.59	-9.67/-8.66	-8.07/-7.91	-7.61/-7.27	-6.82/-6.34	-6.34/-5.74	-5.34/-5.66	-6.59/-7.04	-7.14/-8.3	-10.69/-13.91	-15.34/-14.52	-12.57/-10.91	-8.71/-6.73	-5.3/-3.99	-3.36/-3.2	-2.91/-2.53	-2.3/-1.92	-1.82/-2.01	-2.02/-1.9	-2.24/-2.99	-3.8/-4.51	-5.58/-6.66
Θ (22.5°)	-4.98/-7.26	-7.94/-8.49	-9.05/-8.42	-7.43/-6.78	-7.08/-9.9	-13.65/-10.87	-8.23/-7.24	-7.14/-6.78	-7.48/-9.34	-11.7/-11.25	-11.06/-16.69	-17.41/-11.92	-11.36/-10.76	-9.41/-7.54	-5.96/-6.45	-3.17/-1.65	-1.02/-1.41	-1.43/-1.07	-0.52/-0.19	-0.52/-1.31	-1.86/-1.91	-2.19/-3.18	-4.14/-4.06	-3.33/-3.51
Θ (30°)	-6/-9.52	-11.69/-11.39	-11.74/-10.26	-9.48/-9.38	-6.77/-5.93	-7.45/-9.37	-10.82/-8.91	-6.67/-7.03	-11.31/-18.47	-17.92/-15.48	-15.65/-18.53	-18.12/-17.39	-17.46/-15.07	-11.48/-6.86	-3.8/-2.03	-2.04/-3.48	-4.64/-5.41	-5.73/-4.82	-3.93/-3.55	-3.27/-1.65	0/-0.03	-2.11/-4.97	-5.51/-4.96	
Θ (37.5°)	-6.68/-3.04	-7.92/-7.94	-6.39/-4.78	-5.38/-6.91	-8.75/-7.01	-4.16/-3.3	-5.25/-4.58	-8.69/-14.77	-18.98/-14.3	-7.7/-5.3	-4.16/-5	-7.24/-8.16	-8.23/-8.99	-3.81/-2.85	-3.43/-5.02	-5.4/-7.6	-5.44/-5.09	-4.03/-5.64	-5.89/-4.4	-3.77/-1.69	-0.21/-2.08	-0.76/-3.35	-4.2/-2.23	
Θ (45°)	0.76/-0.66	-7/-7.27	-3.42/-2.49	-8.09/-4.1	-3.47/-4.74	-3.71/-0.6	-3.18/-6.68	-7/-5.58	-7.06/-9.87	-10.78/-18.19	-8.55/-3.53	-3.22/-13.3	-3.67/-4.62	-4.88/-4.28	-3.14/-3.55	-3.54/-6.72	-7.97/-1.17	-7.08/-5.83	-1.76/-2.24	-3.12/-0.92	-2.59/-1.99	0.69/-1.65	0.04/-3.15	-2.09/-0.81
Θ (52.5°)	-1.77/-1.1	-4.35/-7.19	-1.770/-3.4	-5.38/-5.42	-1.530/-1.4	-0.630/-33	-4.26/-7.51	-9.32/-11.52	-9.82/-17.81	-11.65/-18.26	-9.38/-6.48	-5.81/-4.47	-3.62/-4.54	-7.07/-5.44	-6.95/-4.85	-5.33/-4.78	-4.44/-4.47	-6.67/-7.04	-2.39/-2.42	-2.11/-0.3	-3.07/-2.21	1.14/-2.3	-0.92/-5.1	-1.64/-2.58
Θ (60°)	-3.71/-1.3	-2.26/-7.95	-2.85/-1.69	-0.12/-0.41	1.621/-56	-0.42/-0.51	-6.44/-6.81	-4.64/-6.1	-1.95/-14.99	-18.71/-14.17	-7.63/-6.37	-5.55/-2.2	-1.96/-3.5	-7.38/-3.39	-2.71/-11.34									



Radiated Composite Gain Data_Radio 3 & Radio 4

Appendix C

Θ (67.5°)	-9.13/-9.12	-5.76/-4.28	-11.96/-9.88	-9.56/-6.91	-8.16/-14.71	-4.49/-6.56	-4.76/-7.62	-7.14/-11.58	-8.46/-7.65	-9.59/-10	-8.84/-5.22	-3.02/-3.1	-5.68/-7.11	-7.32/-5.88	-7.59/-5.27	-5.94/-9.51	-7.91/-14.32	-15.06/-13.57	-6.78/-10.41	-18.61/-17.85	-6.47/-4.2	-17.31/-7.11	-3.98/-5.35	-6.01/-4.05
Θ (75°)	-7.01/-10.09	-5.42/-4.25	-11.2/-5.37	-6.18/-12	-12.12/-10.24	-3.89/-8.03	-6.88/-14.78	-19.29/-18.29	-18.43/-14.37	-17.74/-15.6	-14.2/-9.1	-5.53/-4.01	-5.22/-5.75	-8.43/-6.18	-7.13/-6.07	-4.53/-9.88	-8.87/-11.36	-15.77/-15.97	-6.51/-9.46	-12.03/-19.02	-8.33/-8.48	-13.66/-4.57	-2.13/-4.35	-3.61/-1.86
Θ (82.5°)	-9.82/-10.73	-6.07/-5.99	-13.81/-4.66	-5.23/-15.84	-15.13/-6.77	-4.81/-11.08	-8.55/-13	-16.88/-11.56	-14.86/-14.32	-17.93/-17.16	-16.22/-11.96	-6.45/-7.79	-5.63/-5.8	-8.99/-7.79	-6.32/-7.7	-6.37/-9.08	-11.21/-11.52	-18.55/-13.26	-6.33/-10.67	-11.82/-18.6	-13.66/-8.87	-9.61/-6.31	-3.97/-7.14	-4.28/-2.44
Θ (90°)	-11.2/-13.89	-7.03/-9.57	-15.97/-4.53	-5.7/-13.84	-14.97/-5.89	-5.96/-14.92	-10.64/-8.68	-11.95/-8.5	-9.27/-8.91	-16.95/-19.34	-18.56/-12.91	-8.97/-10.51	-6.89/-7.45	-8.44/-7.36	-6.8/-8.13	-8.59/-9.16	-12.95/-13.61	-15.24/-11.33	-8.79/-13.64	-13.22/-14.49	-17.63/-11.6	-7.92/-11.2	-6.36/-10.52	-8.15/-4.43
Θ (97.5°)	-10.24/-13.73	-8.61/-17.7	-11.04/-8.53	-6.63/-16.95	-12.2/-6.72	-7.18/-67	-11.66/-7.18	-8.57/-7.64	-8.06/-8.4	-13.91/-17.85	-18.29/-13.92	-11.72/-10.6	-8.68/-10.91	-8.89/-9.04	-9.75/-8.66	-9.88/-10.43	-11.88/-13.94	-18.24/-11.62	-10.62/-10.81	-15.79/-15.87	-18.22/-17.68	-9.11/-18.72	-9.93/-13.6	-11.96/-6.04
Θ (105°)	-12.69/-15.71	-12.19/-16.07	-8.89/-7.07	-9.07/-17.02	-13.19/-7.14	-11.36/-18.17	-13.1/-7.36	-9.36/-8.89	-8.11/-8.26	-14.58/-15.33	-18.36/-12.68	-15.77/-12.62	-14.37/-12.73	-10.47/-8.9	-10.06/-10.15	-10.79/-12.93	-12.04/-13.81	-16.02/-14.13	-10.82/-16	-17.95/-17.7	-9.12/-15.02	-12.92/-12.85	-16.04/-16.22	
Θ (112.5°)	-18.49/-16.74	-10.43/-10.38	-9.63/-9.2	-14.77/-13.33	-11.72/-8.59	-12.26/-18.08	-13.98/-8.23	-11.66/-9.91	-8.84/-10.13	-13.01/-17.36	-19.47/-13.58	-18.1/-15.03	-8.78/-12.74	-11.4/-12.4	-18.21/-9.1	-10.11/-16.37	-13.65/-13.32	-18.64/-16.9	-12.67/-11.77	-15.06/-14.53	-13.24/-17.52	-10.6/-10.24	-19.02/-18.21	-17.54/-15.54
Θ (120°)	-19.07/-9.68	-8.98/-8.72	-16.53/-13.12	-17.05/-12.13	-9.85/-11.08	-16.28/-16.52	-13.47/-13.14	-16.68/-12.39	-9.5/-11.73	-11.45/-14.42	-16.37/-13.9	-17.7/-17.82	-14.11/-12.94	-11.57/-13.67	-18.85/-11.78	-11.4/-10.49	-15.16/-18.63	-19.56/-18.38	-18.16/-10.59	-12.71/-13.69	-12.09/-13.02	-15.07/-10.26	-15.52/-12.97	-17.49/-9.72
Θ (127.5°)	-12.69/-7.49	-10.59/-13.51	-19.05/-17.3	-10.19/-16.92	-11.1/-12.97	-16.51/-16.02	-17.01/-17.86	-17.4/-13.08	-10.13/-9.45	-14.44/-17.16	-16.4/-17.2	-17.77/-17.36	-14.25/-13.18	-13.39/-18.12	-18.35/-18.87	-10.22/-10.81	-12.74/-16.76	-18.06/-18.34	-15.55/-15.65	-10.6/-13.28	-18.62/-15.91	-9.51/-19.09	-13.38/-11.18	-18.32/-9.94
Θ (135°)	-18.65/-10.23	-15.14/-19.04	-18.93/-8.63	-9.53/-15.3	-11.94/-17.67	-17.39/-16.87	-16.97/-15.99	-14.91/-11.99	-11.31/-13.15	-16.4/-18.48	-17.59/-15.35	-18.72/-19.06	-17.26/-13.15	-12.11/-16.13	-19.35/-19.03	-16.01/-11.28	-13.52/-13.99	-18.14/-18.51	-12.9/-16.52	-15.47/-18.76	-18.44/-18.59	-11.32/-15.7	-14.29/-11.01	-15.06/-13.18
Θ (142.5°)	-18.17/-11.15	-15.08/-17.64	-13.35/-15.59	-18.36/-9.54	-13.19/-15.27	-15.95/-18.76	-19.24/-18.32	-18.92/-18.96	-15.48/-16.01	-18.2/-13.6	-10.07/-16.06	-17.41/-18.6	-17.37/-10.08	-12.6/-18.61	-14.53/-14.06	-18.01/-15.46	-18.23/-18.13	-17.95/-18.88	-15.99/-18.59	-15.2/-17.46	-18.72/-17.47	-13.96/-18.93	-12.59/-12.47	
Θ (150°)	-18.17/-15.76	-17.71/-11.89	-15.95/-18.05	-18.97/-17.38	-18.06/-12.16	-14.97/-19.26	-12.28/-18.19	-13.09/-19.1	-17.56/-18.54	-16.15/-9.9	-11.11/-15.6	-17.59/-17.73	-19.12/-17.1	-12.21/-14.86	-17.04/-17.24	-15.19/-15.71	-19.08/-17.96	-19.1/-16.79	-18.3/-16.93	-15.08/-17.94	-19.06/-18.21	-14.22/-18.18	-18.71/-14.61	-11.82/-14.76
Θ (157.5°)	-13.61/-12.17	-12.53/-13.87	-17.48/-15.87	-13.39/-12.97	-10.91/-10.98	-15.55/-14.39	-10.62/-12.04	-15.98/-15.17	-12.1/-12.06	-12.19/-13.5	-14.26/-13.85	-13.17/-16.54	-18.83/-14.45	-14.17/-13.43	-13.04/-19.36	-18.6/-18.87	-15.79/-14.32	-14.33/-13.33	-12.78/-14.12	-18.65/-17.29	-18.98/-18.2	-15.26/-16.36	-17.51/-13.93	-14.23/-14.52
Θ (165°)	-17.09/-15.56	-18.27/-16.75	-13.6/-12.66	-13.51/-16.33	-18.63/-17.83	-12.92/-15.07	-10.02/-12.79	-15.42/-13.13	-12.44/-12.98	-16.83/-18.93	-16.99/-18.89	-16.98/-15.26	-16.08/-18.85	-19.17/-18.28	-14.8/-16.25	-11.83/-12.72	-14.56/-18.35	-19.1/-18.9	-14.63/-18.76	-18.04/-18.75	-19.07/-19.73	-16.91/-16.47	-17.43/-15.58	-17.31/-17.57
Θ (172.5°)	-18.54/-18.38	-18.19/-18.63	-18.29/-18.35	-19.19/-28.9	-17.79/-18.94	-18.74/-17.82	-18.52/-17.12	-18.37/-18.23	-18.88/-17.59	-18.54/-17.64	-15.92/-17.04	-14.71/-13.16	-13.28/-15.51	-19.31/-18.76	-19.41/-16.23	-16.93/-17.96	-18.56/-19.2	-18.16/-19.22	-17.79/-18.9	-17.92/-18.94	-17.13/-18.27	-17.39/-18.44	-18.13/-18.91	-19.13/-19.24
Θ (180°)	-17.49/-18.43	-17.95/-18.44	-18.73/-18.92	-18.59/-17.93	-18.82/-17.49	-19.23/-19.12	-18.41/-18.29	-17.84/-17.79	-16.49/-16.11	-16.23/-15.76	-14.99/-14.43	-15.1/-18.98	-18.42/-17.53	-17.88/-18.49	-19.02/-18.31	-17.89/-18.18	-18.92/-18.44	-18.65/-19.13	-18.48/-19.05	-17.8/-18.59	-19.52/-19	-18.55/-19.06	-17.84/-16.77	-18.35/-18.51
Freq(Hz)	5.785GPol.	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°)	9.14/-9.49	-10.43/-10.51	-9.86/-8.6	-7.5/-6.34	-5.19/-4.4	-4.08/-3.1	-2.52/-2.68	-2.52/-2.17	-2/-2.03	-2.55/-3.26	-3.52/-4.13	-5.72/-7.01	-8.48/-9.78	-11.96/-15.56	-18.17/-16.5	-12.78/-10.37	-8.48/-6.52	-4.86/-4.22	-4.03/-3.91	-3.59/-3.31	-3.16/-3.67	-4.01/-4.46	-4.98/-5.98	-6.64/-8.01
Θ (7.5°)	-4.96/-6.25	-7.24/-8.84	-10.59/-13.45	-14.35/-13.67	-11.01/-9.6	-8.04/-6.21	-5.09/-5.14	-4.85/-4.67	-4.68/-3.46	-4.04/-4.46	-5.31/-5.27	-5.02/-5.18	-5.72/-6.27	-6.55/-6.05	-6.15/-5.88	-5.14/-4.56	-3.82/-3.04	-2.12/-1.64	-1.73/-1.69	-1.88/-2.23	-2.35/-2.28	-4.22/-2.76	-3.24/-3.39	-4.14/-4.45
Θ (15°)	-10.31/-14.56	-10.69/-8.64	-7.85/-8.38	-10.37/-11.52	-9.83/-7.85	-6.25/-4.67	-4.23/-9.25	-3.15/-3.77	-6.08/-8.55	-14.57/-17.65	-18.53/-15.53	-14.02/-11.29	-8.79/-9.09	-6.72/-6.47	-6.33/-5.84	-6.19/-7.19	-7.13/-7.17	-6.91/-6.76	-6.75/-9.21	-2.27/-1.68	-1.47/-1.44	-2.12/-3.26	-5.78/-8.02	
Θ (22.5°)	-8.04/-7.56	-6.87/-7.11	-5.7/-5.19	-6.84/-10.78	-18.71/-15.82	-7.93/-5.37	-4.95/-4.68	-5.53/-5.46	-5.03/-4.6	-5.98/-7.96	-10.69/-11.32	-10.1/-8.93	-9.07/-9.21	-6.89/-5.26	-4.29/-3.63	-2.98/-3.29	-5.03/-6.59	-6.52/-6.41	-6.11/-5.06	-3.05/-1.29	-0.68/-0.71	-1.54/-2.71	-3.87/-4.23	-5.71/-7.63
Θ (30°)	-10.46/-8.2	-4.15/-4.85	-7.4/-10.58	-12.78/-8.46	-6.74/-8.39	-9.67/-11.19	-14.31/-14.11	-10.45/-11.68	-11.67/-7.77	-9.29/-13.96	-14.44/-17.44	-7.78/-5.88	-6.21/-7.74	-7.3/-5.34	-3.7/-4.07	-4.31/-3.68	-5.01/-5.42	-2.95/-1.74	-2.52/-3.73	-3.27/-2.88	-2.4/-1.18	-0.09/-0.83	-2.41/-2.21	-4.07/-7.19
Θ (37.5°)	-5.3/-7.6	-4.18/-3.15	-5.09/-9.87	-9.8/-4.19	-8.24/-8.7	-4.99/-11.8	-7.82/-7.6	-3.92/-3.04	-8.5/-9.57	-11.12/-18.39	-12.02/-7.86	-10.82/-9.8	-6.94/-5.84	-5.37/-5.83	-5.33/-8.37	-4.54/-6.67	-2.43/-3.51	-1.46/-0.54	-0.66/-1.27	-1.73/-2.4	-1.85/-1.18	-1.07/-1.02	-1.93/-3.9	-6.13/-6.65
Θ (45°)	-0.09/-2.09	-2.39/-3.67	-4.41/-6.07	-4.49/-0.75	-2.34/-3.75	-1.59/-5.96	-4.78/-3.5	-6.09/-4.62	-6.96/-3.39	-3.45/-6.13	-9.29/-5.44	-1.89/-0.44	0.57/-0.17	-3.37/-8.73	-6.57/-5.26	-8.32/-8.11	-3.65/-7.18	-5.32/-1.48	-3.15/-0.1	-0.15/-0.24	1.54/-0.31	-1.56/-1.24	-3.02/-4.1	-6.29/-2.65
Θ (52.5°)	2.54/-0.49	-0.71/-0.61	-0.97/-3.34	-2.49/-0.78	0.22/-5.6	-0.88/-2.82	-0.26/-0.8	-10.04/-8.03	-13.56/-8.59	-8.05/-11.1	-9.94/-3.95	-0.39/-0.81	-0.06/-1.16	-14.19/-6.74	-6.48/-7.78	-3.81/-1.08	-12.9/-5.16	-6.26/-2.4	-1.29/-0.41	1.18/-0.7	0.05/-0.86	-1.55/-3.49	-3.78/-0.18	
Θ (60°)	1.94/-0.4	-2.42/-0.27	-2.72/-7.77	-1.82/-1.38	1.98/-2.91	-0.04/-0.43	-0.35/-0.33	-1.64/-9.47	-6.62/-7.77	-15.24/-10.04	-6.25/-4.62	-3.06/-2.55	-3.38/-6.76	-10.52/-6.09	-2.89/-4.43	-0.37/-4.49	-7.64/-6.89	-6.52/-2.53	-2.71/-0.96	0.61/-0.74	-1.09/-0.85	-0.66/-4.59	-3.40/-2.28	
Θ (67.5°)	1.44/-0.71	-1.22/-0.25	-0.6/-0.04	-0.39/-1.36	1.38/-0.57	1.14/-1.76	-2.45/-0.87	-2.63/-0.77	-3.83/-3.52	-8.7/-5.45	-7.28/-10.02	-2.34/-0.83	0.13/-1.38	-4.19/-6.76	-5.2/-4.62	-1.87/-4.43	-0.56/-2.57	-1.42/-4.14	-5.33/-1.46	-1.31/-0.43	1.0/-7.9	-1.97/-0.31	-0.27/-3.25	-3.20/-8.2
Θ (75°)	1.17/-0.91	0.93/-1.37	-0.06/-0.26	1.17/-1.4	1.01/-0.6	0.90/-6.1	-3.18/-0.56	-0.08/-0.7	-1.7/-3.03	-6.09/-2.99	-4.39/-11.15	-2.99/-1.4	0.94/-1.29	-4.06/-1.42	-3.26/-3.69	-3.28/-4.62	-1.65/-0.75	1.20/-5.7	-1.63/-1.24	-0.48/-0.27	1.74/-1.27	-2.06/-7.19	-0.5/-2.18	0.26/-1.06
Θ (82.5°)	0.30/-55	0.61/-0.65	-0.7/-1.89	0.71/-0.39	0.63/-0.1	-0.64/-0.97	-4.56/-0.27	0.02/-1.39	-1.33/-3.92	-5.79/-2.16	-4.84/-10.11	-3.07/-0.47	-1.02/-2.71	-3.77/-2.63	-5.26/-5.83	-2.38/-0.14	1.79/-1.45	-0.17/-1.64	-1.53/-0.29	2.31/-1.48	-2.72/-3.63	-2.11/-3.22	-1.34/-2.01	
Θ (90°)	-2.5/-0.56	-0.46/-1.39	-1.33/-3.34	-0.95/-0.82	-0.11/-1.07	-2.13/-4.29	-1.81/-0.63	-3.25/-5.34	-5/-1.9	-5.57/-11.38	-4.72/-0.9	-3.38/-4.06	-2.97/-10.27	-4.43/-2.26	-7.01/-7.63	-5/-0.81	-0.08/-0.52	-0.51/-3.3	-3.57/-1.55	0.28/-0.02	-3.78/-5.63	-4.85/-4.57	-2.75/-1.34	
Θ (97.5°)	-4.11/-1.66	-1.79/-3.87	-2.66/-0.63	-2.64/-2.39	-1.29/-2.42	-3.83/-5.42	-9.04/-3.13	-3.31/-2.53	-4.75/-7.89	-6.3/-3.31	-7.2/-9.98	-4.84/-3.83	-5.1/-4.5	-4.2/-13.21	-5.65/-3.23	-8.7/-8.19	-7.45/-3.48	-2.47/-2.08	-3.68/-7.16	-6/-5.44	-3.17/-3.41	-7.84/-7.71	-5.89/-6.38	-3.52/-3.21
Θ (105°)	-5.29/-3.4	-3.36/-6.38	-4.67/-7.42	-4.34/-4.57	-3.5/-3.7	-5.53/-7.86	-15.16/-6.99	-7.57/-5.38	-7.11/-11.1	-9.48/-5.71	-7.39/-11.05	-7.18/-6.81	-6.78/-7.88	-5.14/-13.14	-9/-4.38	-7.87/-11.88	-8.12/-5.55	-5.06/-5.22	-7.49/-11.81	-7.65/-11.26	-11.74/-7.09	-9.14/-32	-7.34/-8.58	-6.08/-5.19
Θ (112.5°)	-8.76/-8.29	-6.27/-12.44	-5.97/-8.24	-5.75/-9.27	-5.77/-5.6	-6.29/-10.24	-17.53/-10.24	-8.81/-5.48	-7.42/-8.45	-9.92/-9.88	-13.68/-11.45	-6.3/-10.24	-10.49/-10.3	-10.22/-7.99	-9.3/-8.02	-12.22/-11.47	-10.65/-11.83	-7.39/-7.36	-10.07/-10.03	-6.69/-15.66	-9.26/-5.99	-6.		



Radiated Composite Gain Data_Radio 3 & Radio 4

Appendix C

Θ (112.5°)	-11.75/-8.89	-10.12/-18.68	-10.79/-9.54	-15.08/-15.39	-18.36/-15.62	-12.12/-18.07	-18.81/-13.74	-14.34/-11.94	-6.63/-8.35	-11.07/-18.49	-13.54/-17.12	-12.76/-15.61	-17.19/-13.6	-13.3/-14.76	-15.04/-14.8	-13.26/-13.08	9.04/-10.38	-11.21/-14.61	-17.44/-12.76	-11.84/-10.34	-18.22/-15.44	-13.62/-18.22	-9.68/-11.91	-15.21/-13.4
Θ (120°)	-12.83/-12.81	-15.99/-11.92	-16.87/-16.38	-15.9/-15.47	-12.27/-17.08	-14.64/-18.87	-18.79/-13.82	-16.17/-9.57	-7.89/-8.35	-12.9/-18.29	-14.32/-17.08	-16.91/-14.05	-17.8/-14.59	-13.12/-16.78	-18.17/-13.56	-15.33/-14.81	-12.4/-11.87	-13.96/-18.21	-18.57/-17.83	-11.69/-11.04	-9.19/-19	-19.03/-18.22	-16.7/-11.31	-19.07/-19.34
Θ (127.5°)	-17.51/-9.09	-14.98/-12.8	-19.08/-17.61	-13.17/-19.18	-12.34/-15.76	-14.77/-18.02	-14.11/-18.37	-10.11/-12.51	-18.95/-19.19	-14.73/-13.87	-17.33/-16.55	-14.11/-12.39	-14.05/-15.62	-16.06/-15.62	-14.5/-18.2	-14.05/-15.46	-19.21/-17.9	-10.85/-11.65	-9.43/-13.63	-12.7/-18.26	-16.7/-10.41	-17.76/-18.49		
Θ (135°)	-18.34/-11.07	-19.22/-18.42	-19.46/-15.01	-14.15/-11.21	-14.42/-13.28	-12.58/-17.51	-18.73/-18.62	-14.21/-11.76	-13.7/-18.19	-18.39/-18.74	-13.76/-12.97	-16.46/-16.56	-19.03/-18.12	-16.06/-17.5	-16.33/-18.57	-17.9/-18.22	-16.8/-14.36	-17.48/-19.13	-17.96/-18.27	-16.89/-16.32	-17.95/-16.52	-12.39/-18.62	-15.38/-12.56	-18.8/-11.56
Θ (142.5°)	-17.54/-18.06	-17.39/-13.92	-14.02/-15.79	-18.37/-11.32	-17.28/-11.9	-18.65/-15.43	-18.2/-17.41	-18.81/-12.93	-18.65/-17.75	-18.38/-18.07	-10.25/-19.92	-18.4/-17.81	-18.49/-12.71	-16.12/-17.34	-17.85/-18.78	-18.99/-19.06	-17.41/-19.23	-18.19/-18.15	-18.92/-18.87	-14.05/-18.53	-17.6/-18.12	-18.64/-17.27	-18.83/-17.76	-15/-18.32
Θ (150°)	-18.49/-12.26	-11.09/-11.09	-11.27/-15.97	-17.49/-17.22	-15.87/-15.68	-18.99/-10.78	-18.91/-12.87	-13.51/-18.88	-18.58/-17.05	-12.66/-12.77	-12.97/-11.58	-17.8/-17.73	-18.61/-17.57	-14.24/-18.3	-17.84/-17.89	-17.63/-18.37	-18.61/-18.53	-17.39/-17.01	-12.55/-14.98	-16.55/-19.36	-16.64/-16.19	-17.17/-13.77	-7.55/-19.19	
Θ (157.5°)	-9.69/-12.32	-17.63/-17.78	-15/-15.05	-10.53/-13.17	-19.48/-16.79	-12.63/-10.88	-13.64/-14.51	-10.88/-12.45	-11.39/-9.97	-10.49/-12.81	-15.07/-19.58	-18.04/-19.3	-17.47/-17.37	-13.67/-15.43	-19.09/-19.11	-18.93/-19.14	-17.63/-16.29	-16.22/-16.58	-18.49/-17.87	-18.19/-18.51	-19.16/-12.95	-12.71/-18.09	-19.11/-15.93	-16.36/-16.04
Θ (165°)	-18.94/-17.09	-15.22/-15.05	-14.86/-17.07	-18.08/-18.01	-16.25/-12.73	-11.9/-13.59	-13.98/-11.98	-11.56/-12.53	-13.25/-13.07	-13.66/-16.94	-18.92/-18.32	-17.83/-19.3	-19.6/-18.89	-18.61/-17.83	-18.36/-18.25	-18.83/-17.98	-18.2/-19.1	-17.94/-18.97	-18.06/-17.72	-19.23/-18.98	-17.16/-18.87	-18.28/-15.9	-12.35/-11.31	-14.88/-18.22
Θ (172.5°)	-15.94/-17.9	-18.35/-18.63	-17.51/-18.81	-18.33/-18.37	-17.63/-18.49	-18.06/-18.91	-17.02/-16.44	-17.54/-18.35	-18.63/-18.8	-18.01/-19.18	-18.29/-18.29	-18.02/-17.73	-18.82/-17.98	-19.06/-18.23	-18.01/-18.06	-17.09/-18.13	-18.52/-18.51	-17.25/-18.7	-17.51/-18	-19.14/-17.77	-18.7/-18.78	-17.9/-18.62	-18.77/-16.33	
Θ (180°)	-17.95/-18.12	-19.08/-18.91	-19.15/-19.2	-17.75/-18.57	-18.05/-17.54	-18.15/-18.79	-17.27/-17.38	-16.31/-14.26	-16.02/-17.55	-18.21/-19.81	-18.13/-16.23	-15.47/-15.66	-16.73/-19.3	-19.79/-18.23	-18.49/-18.94	-18.37/-18.16	-18.64/-18.51	-17.58/-17.54	-19.17/-18.3	-17.42/-18.3	-17.11/-15.32	-14.32/-15.62	-16.66/-16.97	-18.69/-18.49
Freq(Hz)	6.475GPol.	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°)	-12.46/-10.71	-8.8/-8.3	-8.01/-7.09	-6.14/-5.92	-5.47/-5.37	-4.97/-5.02	-4.91/-5.18	-5.62/-6.28	-7.1/-8.02	-9.73/-10.76	-11.35/-14.93	-19.22/-16.83	-16.75/-15.12	-12.33/-11.19	-9.93/-8.07	-6.6/-5.93	-5.92/-5.53	-5.15/-5.58	-6.12/-6.54	-6.65/-6.99	-7.89/-9.67	-11.35/-12.62	-14.87/-17.12	-15.78/-13.82
Θ (7.5°)	-13.92/-14.17	-11.94/-11.62	-11.61/-9.6	-9.17/-8.89	-8.54/-8.66	-9.19/-9.85	-10.27/-10.91	-11.16/-13.31	-11.62/-11.11	-9.55/-8.41	-7.85/-7.51	-7/-5.89	-6.23/-6.14	-5.3/-5.28	-5.7/-5.72	-5.47/-5.02	-5.51/-5.16	-4.15/-4.2	-4.42/-4.75	-4.78/-4.5	-4.42/-5.19	-6.4/-6.74	-7.09/-9.38	-10.42/-12
Θ (15°)	-8.06/-7.95	-9.26/-9.28	-9.21/-10.86	-14.49/-15.82	-13.28/-10.84	-8.87/-7.2	-6.05/-5.74	-6.23/-7.9	-5.12/-5.37	-6.18/-9.65	-10.61/-10.52	-8.97/-8.02	-8.23/-7.65	-7.75/-9.49	-11.85/-12.77	-12.38/-12.35	-9.31/-7.16	-5.86/-5.64	-5.62/-4.69	-3.83/-4.01	-5.71/-6.43	-7.18/-7.83		
Θ (22.5°)	-5.79/-7.62	-7.84/-8.11	-8.28/-9.66	-10.53/-10.64	-8.1/-8.77	-9.37/-7.99	-7.12/-7.3	-7.78/-8.55	-8.86/-7.43	-4.92/-5.19	-6.77/-8.04	-9.42/-11.22	-11.3/-11.1	-8.84/-7.82	-7.97/-8.02	-8.39/-8.18	-8.16/-7.17	-6.15/-6.03	-4.86/-4.05	-5/-6.72	-8.09/-7.57	-7.06/-6.24	-6.14/-8.52	-8.37/-7.51
Θ (30°)	-4.28/-5.04	-5.59/-5.37	-5.29/-3.6	-4.17/-9.15	-11.32/-12.46	-17.52/-18.92	-16.11/-14.37	-16.06/-18.63	-18.59/-14.55	-10.92/-12.71	-14.39/-12.71	-11.87/-8.41	-6.96/-6.84	-9.01/-12.81	-14.34/-12.56	-9.92/-6.24	-2.97/-1.34	-2.37/-3.87	-2.64/-2.36	-2.05/-1.14	-1.74/-3.32	-5.7/-5.84	-9.1/-6.93	-6.51/-5.51
Θ (37.5°)	-7.14/-5.25	-4.14/-4.06	-5.86/-6.69	-13.71/-16.16	-10.58/-8.59	-11.33/-15.24	-17.91/-7.18	-4.43/-8.81	-18.92/-14.05	-14.84/-13.35	-4.72/-3.16	-4.1/-4.18	-5.89/-11.33	-19.15/-9.06	-3.44/-3.82	-3.20/-24	-1.12/-5.17	-2.45/-3.75	-2.45/-3.75	-2.96/-3.6	-6/-7.02	-7.51/-6.17		
Θ (45°)	-4.98/-2.1	0.57/-0.87	-4.81/-4.94	-10.71/-12.06	-8.35/-11.27	-7.9/-6.81	-13.37/-4.73	-3.57/-14.16	-8.88/-18.78	-9.34/-9.06	-12.34/-14.1	-7.72/-2.36	-2.13/-4.58	-9.83/-8.66	-9.14/-8.18	-5.63/-5.04	-10.13/-6.56	-1.33/-1.71	-1.62/-2.33	-7.48/-7.1	-4.92/-4.4	-8.83/-10.27	-5.38/-1.07	-0.9/-4.77
Θ (52.5°)	-1.99/-0.63	1.24/-1.31	-5.66/-7.77	-18.38/-17.47	-4.08/-7.58	-8.16/-4.74	-2.55/-6.46	-4.62/-19.17	-15.14/-13.6	-5.12/-6.2	-10.17/-12.5	-5.71/-8.03	-1.61/-1.55	-6.04/-6.14	-3.58/-6.27	-5.5/-10.95	-8.29/-13.98	-3.68/-1.23	-2.85/-2.19	0.17/-1.32	-2.85/-2.19	-10.3/-6.23	-6.95/-12.92	-4.23/-6.51
Θ (60°)	-4.02/-0.62	-0.02/-1.14	-3.64/-4.63	-17.47/-12.17	-5.5/-2.22	0.06/-6.35	1.34/-5.57	-13.22/-11.56	-3.14/-6.77	-7.24/-5.74	-13.14/-7.35	-5.06/-4.27	-4.2/-4.76	-4.07/-6.69	-8.96/-13.2	-5.82/-3.4	-10.3/-1.23	-0.84/-3.96	-13.73/-5.96	-7.17/-11.71	-4.27/-0.59	0.04/-5.53		
Θ (67.5°)	-6.18/-1.74	0.96/-0.02	-2.81/-5.22	-3.65/-1.36	-2.81/-1.17	3/-1.06	0.93/-5.71	-0.85/-9.66	-8.36/-5.99	-3.75/-3.34	-5.02/-9.14	-18.34/-6.14	-2.8/-9.45	-6.81/-3.61	-2.26/-3.07	-4.9/-7.39	-8.56/-7.01	-4.28/-4.13	-1.32/-0.2	0.11/-5.48	-5.56/-4.16	-7.7/-4.6	-3.95/-2.1	-0.57/-5.07
Θ (75°)	-4.37/-3.27	0.140/-99	-0.29/-5.58	-4.34/-0.15	0.19/-0.19	2.630/-0.7	0.88/-3.7	-1.26/-6.41	-3.21/-3.13	-1.98/-2.03	-3.58/-1.46	-9.92/-4.32	-1.86/-7.56	-10.65/-3.44	-1.49/-1.55	-4.6/-4.14	-4.59/-4.01	-1.23/-2.38	-3.76/-1.44	-0.43/-0.9	-0.78/-2.9	-6.47/-12.11	-2.52/-2.13	-1.07/-5.34
Θ (82.5°)	-3.45/-5.4	-0.230/-89	-0.54/-5.3	-5.160/-83	1.31/-0.97	1.76/-0.36	-0.27/-3.28	-0.84/-11.32	-2.13/-2.12	-1.29/-0.42	-4.02/-18.55	-8.49/-3.53	-3.99/-7.26	-8.91/-3.85	-0.77/-2.16	-4.39/-3.85	-3.67/-2.11	-0.83/-1.08	-7.58/-2.77	-3.130/-93	1.22/-2.21	-5.77/-13.35	-3.06/-1.6	-2.42/-6.84
Θ (90°)	-4.57/-9.61	-2.04/-0.34	-1.44/-6.06	-7.12/-0.78	0.8/-2.37	0.2/-2.32	-2.51/-4.99	-0.49/-7.68	-2.51/-3.17	-1.62/-0.74	-4.35/-16.92	-8.44/-4.96	-5.2/-6.89	-8.6/-5.48	-2/-4.21	-6.15/-3.97	-4.3/-2.64	-2.85/-1.43	-8.18/-5.91	-5.830/-06	0.81/-3.09	-6.15/-12.85	-4.87/-2.77	-5.65/-7.57
Θ (97.5°)	-5.72/-12.59	-4.68/-2.18	-3.84/-6.87	-10.24/-2.46	-0.61/-3.91	-2.06/-7.59	-4.5/-5.81	-0.96/-7.7	-3.18/-4.57	-3.34/-2.28	-6.07/-13.1	-9.93/-4.9	-5.66/-8.31	-8.38/-8.42	-3.15/-5.68	-9.43/-5.51	-5.44/-6.22	-4.55/-4.21	-11.74/-10.2	-10.02/-2.82	-2.36/-6.22	-10.74/-12.35	-6.7/-4.2	-8.43/-8.29
Θ (105°)	-11.91/-9.53	-4.92/-3.3	-6.09/-9.51	-11.83/-4.04	-4.24/-5.35	-5.49/-6.38	-4.14/-5.08	-2.68/-7.4	-3.27/-10.36	-5.24/-5.05	-7.29/-14.37	-10.52/-7.18	-4.98/-7.25	-8.41/-10.07	-8.64/-7.26	-10.35/-6.22	-5.15/-7.78	-5.57/-8.24	-11.39/-14.86	-7.52/-9.47	-8.06/-9.15	-10.64/-18.6	-8.9/-5.12	-9.5/-11.37
Θ (112.5°)	-14.95/-11.33	-7/-6.69	-8.47/-12.67	-9.83/-4.31	-6.26/-8.15	-5.21/-8.04	-6.24/-5.85	-4.89/-8.9	-6.72/-11.99	-8.39/-8.65	-10.8/-11.74	-10.36/-6.84	-6.7/-9.45	-7.23/-10.31	-14.24/-9.6	-15.74/-11.6	-13.16/-15.78	-7.6/-9.37	-9.3/-11.39	-7.98/-8.26	-8.7/-7.66	-17.79/-18.6	-12.83/-8.51	-9.28/-14.62
Θ (120°)	-13.7/-19.18	-14.9/-7.69	-5.02/-11.78	-7.3/-7.2	-6.07/-4.9	-4.85/-10.36	-6.91/-9.74	-7.23/-12.51	-14.52/-15.18	-15.25/-11.08	-14.13/-13.91	-9.87/-8.04	-9.07/-8.87	-7.63/-10.56	-16.06/-14.39	-17.63/-18.74	-14.34/-17.41	-13.12/-14.28	-11.43/-14.62	-7.17/-17.22	-8.93/-12.03	-9.98/-17.89	-11.84/-10.39	-18.79/-13.56
Θ (127.5°)	-18.95/-17.35	-10.27/-6.71	-6.54/-19.2	-7.63/-8.72	-12.36/-10.41	-8.4/-13.1	-9.32/-16.03	-10.06/-17.41	-18.54/-18.71	-18.33/-12.3	-14.74/-12.62	-13.53/-9.08	-9.35/-11.16	-10.13/-11.74	-18.42/-10.69	-18.49/-14.39	-12.8/-18.35	-13.96/-14.36	-10.08/-14.78	-7.11/-18.96	-11.63/-16.48	-18.08/-15.14	-9.18/-13.95	-17.47/-11.55
Θ (135°)	-18.29/-12.45	-13.13/-11.35	-18.79/-14.77	-9.72/-13.33	-13.97/-12.39	-13.57/-18.4	-14.91/-18.06	-14.29/-12.66	-18.27/-18.16	-17.73/-13.8	-14.16/-12.85	-12.09/-10.3	-12.02/-13.19	-9.24/-12.85	-15.55/-9.64	-13.67/-17.96	-14.63/-17.63	-17.61/-10.45	-14.24/-18.94	-7.41/-12.51	-17.78/-14.9	-18.08/-18.14	-17.59/-14.79	-18.79/-17.78
Θ (142.5°)	-18.94/-18.84	-17.23/-14.49	-17.81/-13.87	-7.95/-12.91	-11.63/-8.85	-12.86/-17.89	-11.32/-12.73	-17.42/-11.61	-13.91/-17.56	-17.04/-16.84	-13.67/-15.79	-14.78/-10.48	-14.28/-13.84	-11.38/-8.68	-14.45/-13.48	-11.39/-15.26	-19.35/-18.27	-18.25/-17.3	-17.93/-18.71	-13.04/-14.5	-17.29/-16.12	-14.9/-18.63	-18.53/-18.51	-14.45/-18.89
Θ (150°)	-18.12/-19.18	-19.17/-18.9	-11.98/-10.73	-11.49/-13.91	-9.22/-10.61	-18.86/-15.31	-14.96/-15.75	-17.46/-18.3	-15.64/-15.78	-14.71/-18.7	-18.67/-14.91	-12.26/-11.67	-13.84/-16.95	-12.99/-14.69	-15.18/-17.4	-18.61/-16.9	-16.89/-16.82	-13.53/-12.14	-18.96/-17.32	-17.87/-15.23	-15.84/-18.93	-17.65/-18.23	-18.9/-18.28	-18.1/-18.69
Θ (157.5°)	-17.87/-18.8	-18.88/-18.65	-18.98/-18.7	-14.9/-14.41	-18.84/-17.92	-17.1/-16.51	-14.51/-14.86	-17.28/-18.48	-16.43/-14.74	-18.43/-17.13	-19.27/-18.7	-13.12												