



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-2TX

Appendix C

Θ(75°)	-3.26/-7.85	-8.46/-9.18	-11.81/-8.18	-7.85/-9.94	-9.89/-10.18	-5.23/-7.31	-8.6/-9.32	-13.09/-12.53	-15.48/-11.73	-13.59/-12.43	-10.07/-6.95	-13.05/-13	-9.81/-7.12	-8.45/-8.68	-12.96/-14.31	-12.98/-13.86	-11.49/-8.59	-8.34/-10.6	-8.77/-6.07	-5.26/-5.76	-9.78/-10.49	-13.36/-11.38	-7.62/-2.27	-3.1/-3.28
Θ(82.5°)	-6.81/-10.83	-11.15/-7.43	-12.96/-7.79	-12.74/-11.87	-11.9/-8.44	-5.53/-8.94	-9.51/-14.49	-12.14/-11.93	-12.25/-11.9	-12.57/-12.33	-10.19/-7.3	-15/-10.69	-8.13/-6.69	-8.11/-10.17	-13.3/-11.58	-10/-13.01	-9.64/-7.82	-7.59/-15.88	-10.48/-6.88	-5.47/-5.67	-8.79/-11.21	-11.32/-15.63	-12.62/-4.04	-5.12/-4.73
Θ(90°)	-11.98/-15.68	-14/-10.53	-13.43/-7.92	-14.37/-11.66	-10.86/-9.24	-6.28/-11.28	-11.9/-13.08	-11.22/-8.7	-8.98/-12.31	-10.79/-9.81	-11.89/-8.92	-10.65/-9.01	-7.55/-6.76	-7.74/-10.92	-15.5/-11.42	-8.17/-9.75	-6.68/-10.84	-6.42/-13.31	-12.87/-9.2	-8.04/-6.13	-8.26/-8.24	-13.3/-9.45	-13.26/-9.18	-10.71/-8.16
Θ(97.5°)	-12.93/-12.42	-11.76/-12.01	-14.86/-12.38	-14.08/-9.34	-11.18/-8.91	-7.69/-13.6	-14.96/-9.56	-6.7/-8.15	-7.59/-8.91	-9.26/-9.13	-11.76/-10.03	-9.18/-9.17	-7.64/-8.58	-8.46/-11.78	-11.49/-8.41	-7.41/-7.61	-5.56/-9.27	-8.38/-11.12	-11.96/-13.33	-10.67/-6.43	-8.06/-9.15	-9.7/-6.38	-8.9/-12.24	-13.97/-15.32
Θ(105°)	-11.5/-16.05	-14.44/-8.52	-11.55/-15.21	-9.22/-12.49	-10.83/-8.7	-10.02/-15.41	-12.55/-6.84	-6.12/-6.32	-7.45/-9.25	-8.25/-7.55	-12.44/-10.72	-7.88/-8.94	-8.18/-9.15	-10.66/-10.92	-13.25/-7.39	-7.46/-7.55	-5.9/-10.23	-11.53/-8.27	-8.2/-12.85	-13.6/-8.33	-12.63/-6.41	-9.26/-10.65	-7.83/-10.75	-15.85/-13.17
Θ(112.5°)	-5.96/-9.7	-11.11/-7.93	-8.39/-9.76	-8.22/-9.96	-9.33/-11.22	-12.1/-11.38	-13.35/-6.66	-6.98/-7.32	-6.16/-7.23	-7.18/-8.51	-10.95/-12.7	-9.87/-9.72	-11.49/-14.2	-12.52/-14.82	-10.23/-9.73	-6.58/-6.03	-6.71/-10.74	-12.26/-8.04	-7.85/-15.65	-14.36/-10.66	-6.94/-5.28	-7.6/-9.64	-9.76/-9.8	-14.27/-15.87
Θ(120°)	-11.18/-7.61	-13.61/-11.18	-12.72/-4.31	-12.16/-10.99	-13/-14.44	-14.81/-12.62	-12.5/-10.99	-8.5/-9.3	-8.49/-8.42	-6.87/-6.76	-8.17/-7.5	-7.66/-11.58	-14.23/-14.87	-12.78/-10.55	-7.99/-7.26	-5.71/-4.01	-6.12/-8.52	-10.7/-7.38	-11.77/-12.3	-8.27/-12.78	-10.73/-4.16	-6.73/-7.26	-12.17/-13.74	-13.6/-15.37
Θ(127.5°)	-5.4/-7.27	-9.25/-10.19	-7.85/-8.92	-10.96/-14.78	-10.02/-15.78	-13.77/-11.67	-11.5/-9.54	-11.33/-8.73	-8.08/-9.78	-10.49/-8.78	-6.71/-7.7	-14.24/-13.34	-15.25/-13.74	-12.34/-7.67	-8.25/-10.14	-5.65/-4.77	-6.09/-7.51	-11.81/-8.93	-8.19/-9.47	-7.71/-11.13	-15.03/-9.05	-8.31/-6.27	-11.51/-10.26	-8.72/-5.31
Θ(135°)	-5.89/-4.72	-9.25/-8.8	-9.54/-8.74	-10.18/-10.68	-11.04/-12.02	-14.59/-11.79	-12.76/-11.28	-9.54/-9.24	-9.2/-8.23	-8.9/-5.77	-6.81/-11.47	-13/-11	-13.01/-9.93	-9.63/-8.46	-10.27/-7.07	-5.87/-6.34	-7.6/-8.87	-12.48/-8.86	-10.88/-6.94	-7.26/-5.28	-12.65/-15.08	-11.63/-8.12	-15.73/-12.96	-12.59/-5.92
Θ(142.5°)	-8.1/-10.19	-7.83/-14.46	-14.73/-14.54	-12.24/-7.63	-10.49/-13.35	-10.88/-15	-13.46/-13.24	-11.13/-10.99	-8.44/-9.74	-9.6/-6.11	-6.24/-9.84	-12.48/-12.82	-9.93/-16.09	-12.74/-8.77	-8.47/-8.68	-7.81/-6.16	-9.38/-9.7	-13.45/-10.32	-15.4/-7.11	-10.18/-9.18	-14.08/-14.4	-15.02/-14.75	-14.39/-14.73	-12.75/-12.64
Θ(150°)	-10.84/-9.76	-9.17/-11.71	-11.4/-9.01	-9.1/-12.44	-11.62/-14.06	-15.71/-13.79	-11.24/-12.43	-6.97/-7.53	-9.5/-7.73	-9.49/-12.03	-12.57/-9.66	-10/-14.88	-11.48/-10.3	-11.63/-11.15	-12.04/-12.71	-12.37/-9.41	-9.52/-10.22	-9.98/-9.37	-10.45/-13.15	-12.62/-11.09	-11.27/-8.82	-13.06/-12.58	-12.21/-13.57	-10.5/-10.38
Θ(157.5°)	-13.02/-13.67	-12.5/-13.62	-15.73/-15.73	-13.55/-10.99	-12.07/-13.9	-7.84/-6.82	-9.24/-7.56	-6.49/-6.62	-6.53/-6.84	-6.86/-9.06	-14.18/-14.48	-14.95/-11.68	-9.77/-11.11	-15.01/-15.66	-12.28/-8.92	-7.58/-8.21	-10.19/-7.93	-6.22/-8.25	-9.61/-9.61	-11.2/-13.05	-13.69/-11.89	-11.46/-10.14	-11.07/-12.53	-10.51/-8.52
Θ(165°)	-14.99/-13.83	-8.8/-7.27	-9.3/-11.59	-12.03/-14.79	-15.57/-12.71	-11.01/-12.83	-10.62/-9.12	-9.38/-9.59	-10.34/-11.24	-13.8/-16.01	-15.16/-15.76	-14.29/-13.05	-12.3/-10.4	-11.29/-10.73	-11.51/-11.3	-10.61/-10.83	-11.9/-11.49	-10.37/-11.09	-11.12/-11.69	-12.56/-15.07	-14.75/-12.28	-14.39/-14.35	-11.19/-9.35	-8.14/-9.24
Θ(172.5°)	-16.14/-15.17	-13.68/-13.55	-13.14/-10.36	-10.31/-9.5	-8.43/-7.61	-7.35/-8.47	-10.6/-9.38	-9.41/-8.92	-9.03/-9.19	-9.36/-10.59	-11.82/-13.31	-14.17/-14.74	-14.93/-15.05	-14.87/-15.24	-12.82/-11.76	-10/-12.1	-13.65/-14.25	-14.64/-14.17	-11.12/-10.05	-10.22/-11.24	-11.37/-12.93	-14.59/-15.13	-14.69/-13.91	-13.61/-14.45
Θ(180°)	-12.28/-10.39	-10.75/-11.63	-11.5/-13.37	-12.82/-12.62	-11.61/-9.12	-9/-9.74	-9.51/-10.03	-10.62/-10.89	-11.33/-10.82	-10.13/-10.99	-12.28/-12.49	-13.72/-14.22	-13.82/-14.05	-15.16/-13.56	-13.55/-13.45	-12.62/-12.27	-12.12/-11.48	-10.72/-10.03	-10.81/-10.97	-10.57/-10.82	-11.81/-12.86	-12.24/-11.76	-10.88/-11.3	-14.61/-14.93
Freq(Hz)	5.785GPol.	Theta	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
DG(dB)	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-3.86/-3.69	-4.55/-5.41	-6/-6.49	-6.86/-7.93	-10.26/-13.21	-14.55/-15.07	-15.49/-15.66	-15.92/-14.5	-12.5/-10.23	-8.78/-7.36	-6.87/-6.5	-4.64/-4.67	-4.31/-4.33	-4.51/-3.98	-4.57/-5.36	-5.74/-6.37	-7.83/-9.29	-11.1/-12.95	-14.22/-13.48	-8.55/-7.38	-5.97/-5.06	-4.54/-4.16	-4.26/-3.94	
Θ(7.5°)	-2.19/-2.58	-2.94/-3.32	-3.5/-3.82	-4.75/-4.55	-5.24/-6.83	-7.62/-9.12	-9.22/-9.1	-9.75/-8.45	-7.2/-5.84	-5/-4.62	-3.66/-4	-4.18/-3.95	-4.27/-4.46	-5.82/-6.47	-6.51/-7.59	-8.92/-9.9	-12.08/-13.05	-14.12/-13.65	-14.51/-15.18	-14.19/-9.96	-7.5/-6.06	-5.15/-4.43	-3.36/-2.28	-1.76/-1.9
Θ(15°)	-2.86/-2.58	-3.15/-3.4	-4/-4.04	-4.12/-4.79	-3.91/-5.04	-6.75/-8.77	-9.62/-9.4	-9.9/-10.04	-9.44/-7.78	-6.51/-5.17	-4.24/-3.69	-3.58/-4.24	-4.37/-4.59	-5.78/-7.3	-8.64/-8.8	-8.55/-9.65	-11.24/-12.57	-14.19/-14.28	-13.65/-12.68	-12.4/-10.28	-7.53/-6.53	-5.57/-4.87	-4.48/-4.54	-4.44/-3.54
Θ(22.5°)	-1.98/-2.12	-3.05/-3.64	-4.37/-5.6	-6.47/-11.57	-8.22/-7.71	-9.04/-10.14	-10.89/-9.77	-7.7/-6.65	-6.09/-6.43	-7.99/-7.6	-6.38/-4.91	-4.2/-3.19	-2.41/-1.85	-2.39/-4.59	-8.11/-9.44	-9.84/-11.94	-11.52/-7.71	-6.18/-6.95	-8.11/-9.01	-8.86/-11.59	-14.64/-15.65	-14.9/-12.63	-8.48/-6.23	-3.67/-2.75
Θ(30°)	-2.4/-0.83	-0.25/-0.74	-4.03/-6.43	-6.81/-6.4	-4.02/-2.32	-3.08/-3.83	-4.13/-3.52	-4.82/-3.82	-3.07/-4.01	-4.94/-3.68	-2.23/-1.24	-1/-1.01	-1.29/-1.28	-0.77/-1.26	-2.8/-4.17	-4.2/-5.36	-4.08/-2.75	-2.56/-3.49	-3.42/-3.76	-3.33/-2.85	-3.46/-5.33	-6.67/-9.51	-12.52/-9.32	-9.06/-6.52
Θ(37.5°)	0.08/2.35	3.36/2.73	0.47/-5.12	-2.95/-1.43	-0.61/0.54	0.92/-0.33	-0.37/1.05	2.1/1.58	1.41/0.37	-1.06/-1.17	-1.63/-1.08	0.42/0.68	1.16/1.75	1.15/0.99	1.07/0.23	-0.46/-0.64	0.5/0.94	0.21/0.63	-0.17/-0.52	1.38/0.85	-0.02/-0.99	-3/-4.97	-7.68/-6.84	-4.06/-1.99
Θ(45°)	-0.55/2.42	3.58/2.3	-0.01/-0.8	0.75/0.95	1.64/2.78	2.78/1.53	0.96/2.02	2.8/3.2	4.23/3.73	2.36/1.6	-0.24/1.16	3.82/3.74	3.07/2.65	2.19/2.58	3.28/2.72	2.72/3.38	2.22/3.05	4.6/4.51	2.73/4.32	5.79/3.94	3.12/3.96	2.19/-3.89	-8.91/-10.95	-7.92/-1.58
Θ(52.5°)	-0.82/1.32	3.85/3.36	0.03/-1.19	1.21/2.45	3.53/3.72	2.13/0.59	1.28/2.01	3.47/3.95	4.62/4.49	4.48/3.94	2.99/4.49	5.21/4.8	4.43/2.67	2.95/4.25	5.63/5.6	4.49/4.7	3.76/4.19	4.36/3.46	2.46/5.09	6.27/6.15	5.85/5.63	3.84/-2.61	-7.15/-8.03	-7/-1.4
Θ(60°)	-0.45/1.26	3.05/1.27	-1.12/-0.27	2.18/3.06	2.38/1.08	-0.27/-1.1	-0.42/1.05	2.98/3.39	4.2/2.5	5.45/4.47	3.76/4.38	4.44/4.5	3.9/1.59	2.67/5.42	6.25/6.42	5.91/6.25	3.97/3.72	4.02/1.43	1.94/4.25	4.71/6.15	6.28/5.99	4.75/-1.05	-4.96/-9.47	-8.37/-1.63
Θ(67.5°)	-0.18/2.09	2.71/-0.98	-0.82/-1.52	1.68/2.66	0.84/-0.54	-2.22/-1.66	-1.51/-1.75	0.46/1.08	3.33/4.99	4.93/3.1	3.67/4.06	3.94/4.92	4.08/2.17	2.6/5.53	5.27/5.32	6.4/6.25	1.91/3.29	3.29/-1.52	0.99/3.01	2.33/5.41	5.24/7	5.28/1.46	-3.18/-8.8	-7.89/-3.51
Θ(75°)	-2.5/-1.36	1.35/-0.35	-0.54/-5.95	-0.17/0.83	-2.89/-2.45	-2.66/-2.35	-2.2/-5.46	-2.12/-0.98	1.09/3.38	3.71/2.18	2.52/3.47	4.38/5.43	5.37/2.53	2.09/5.18	4.4/4.62	6.11/5.5	1.1/2.31	1.74/-3.3	-0.03/-1.74	0.7/4.03	3.31/3.41	5.11/2.28	-2.52/-5.97	-7.39/-8.33
Θ(82.5°)	-2.23/1.52	0.67/-0.87	-1.35/-8.42	-0.55/-1.85	-8.82/-2.13	-3.02/-4.99	-3.03/-5.22	-3.67/-1.71	0.01/1.77	2.16/1.53	1.72/2.79	4.45/5.41	5.06/1.37	2.19/4.03	3.62/4.51	5.54/4.69	-1.48/0.85	-0.43/-2.69	-0.21/0.82	0.49/3.2	2.31/2.28	3.64/1.56	-0.88/-5.52	-9.04/-11.88
Θ(90°)	-3.04/-0.47	1.09/-3.22	-2.32/-8.18	-2.55/-4.14	-9.64/-2.79	-4.19/-5.35	-7.95/-3	-5.22/-3.69	-1.18/0.62	1.05/1.23	1.53/2.02	3.84/3.74	5.02/0.62	0.34/1.63	2.42/3.09	4.79/3.24	-2.18/0.21	-1.61/-1.18	-1/-0.02	-1.61/2.24	1.17/1.77	1.67/0.95	0.65/-6.16	-6.53/-9.32
Θ(97.5°)	-7.16/-5.68	-1.07/-2.37	-2.7/-9.01	-7.75/-6.53	-9.5/-5.31	-5.37/-7.31	-5.83/-3.69	-5.04/-5.82	-4.7/-1.7	-1.01/-0.35	0.11/1.97	3.31/2.95	2.44/0.41	-1.16/-0.53	1.61/2.73	3.12/2.46	-4.73/-2.29	-4.14/-1.67	-3.39/-1.92	-2.72/1.97	0.22/1.01	-0.96/-2.28	-2.07/-5.89	-5.66/-10.39
Θ(105°)	-10.43/-7.74	-5.1/-6.16	-6.73/-8.9	-7.87/-6.53	-8.93/-9.94	-7.96/-10.62	-4.87/-3.96	-6.82/-5.92	-6.26/-6.62	-4.22/-1.8	-1.09/1.33	2.65/2.58	1.01/-1.55	-2.93/-1.11	0.59/1.45	0.92/0.87	-6.21/-4.46	-4.11/-4.54	-1.64/0.01	-1.81/-0.11	0.82/-2.12	-4.9/-7.33	-4.58/-4.14	-7.57/-10.17
Θ(112.5°)	-7.25/-8.25	-3.85/-6.17	-5.85/-9.43	-5.27/-11.95	-11.77/-8.16	-10.42/-15.25	-6.45/-3.79	-8.17/-5.97	-6.27/-5.54	-5.05/-3.84	-0.37/1.7	2.01/3.09	0.55/-2.7	-1.68/-0.17	-1.74/1.59	2.08/-0.29	-7.23/-7.82	-3.96/-3.07	-1.38/-5.44	-3.05/-2.69	-0.3/-6.97	-1.55/-8.42	-4.1/-5.9	-8.83/-3.44
Θ(120°)	-9.55/-11.84	-6.54/-3.91	-2.09/-8.66	-7.37/-12.78	-8.27/-8.01	-11.56/-13.93	-14.82/-12.28	-12.19/-6.91	-6.16/-5.5	-4.44/-3.88	-1.54/0.03	-1.56/-0.95	0.45/-2.17	-2.55/-1.29	0.11/-1.03	-0.01/-4.34	-3.7/-4.49	-6.51/-4.22	-6.34/-5.74	-4.11/-3.76	-3.44/-9.65	-2.03/-5.39	-10.66/-13.55	-6.1/-3.29
Θ(127.5°)	-6.85/-8.38	-10.84/-6.23	-5.9/-16.17	-7/-6.61	-8.9/-8.28	-8.58/-8.																		



Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G
Ant. 1 Max Gain (dBi)	-0.33	5.57	6.81	6.26	5.43
Ant. 2 Max Gain (dBi)	-1.82	3.66	5.09	6.65	5.54
Ant. 3 Max Gain (dBi)	2.07	3.91	5.22	4.97	5.61
Ant. 4 Max Gain (dBi)	-1.25	3.91	4.88	6.07	4.42
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/60/112.5	Theta/75/210	Theta/75/210	Theta/67.5/217.5	Theta/60/210
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/22.5/67.5	Theta/82.5/15	Theta/67.5/172.5	Theta/60/300	Theta/60/307.5
Ant. 3 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/67.5/120	Theta/67.5/240	Theta/82.5/307.5	Theta/60/225	Theta/67.5/15
Ant. 4 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/75/150	Theta/67.5/37.5	Theta/67.5/292.5	Theta/75/285	Theta/75/285
Max Gain (dBi)	2.07	5.57	6.81	6.65	5.61
DG [1SS] (dBi)	4.19	8.18	8.85	9.45	8.93
DG [2SS] (dBi)	2.07	2.07	6.81	6.65	5.93
DG [4SS] (dBi)	2.07	5.57	6.81	6.65	5.61



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

DG 1SS Result

Freq(Hz)	2.45G/Pol.	Phi-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-2.46/-2.55	-2.37/-2.14	-1.96/-1.94	-2.04/-2.19	-2.56/-2.53	-2.65/-2.86	-2.71/-2.36	-1.57/-0.96	-0.56/-0.4	-0.35/-0.39	-0.57/-0.96	-1.45/-1.65	-1.68/-1.78	-1.81/-1.94	-2.18/-2.48	-2.88/-2.99	-3.23/-3.25	-3.37/-3.33	-3.02/-2.14	-1.27/-0.67	-0.37/-0.4	-0.6/-0.85	-1.18/-1.55	-1.85/-2.08
Θ(7.5°)	-2.09/-2.26	-2.96/-3.04	-3.04/-3.05	-3.04/-3.47	-3.84/-3.73	-3.63/-3.58	-3.28/-3.16	-2.45/-1.91	-1.58/-1.47	-1.41/-1.43	-1.63/-1.72	-1.85/-1.93	-1.78/-1.42	-1.14/-1.1	-1.03/-1.21	-1.42/-1.54	-1.63/-1.84	-2.12/-2.33	-2.21/-2.32	-0.49/-0.13	0.04/-0.46	0.31/-0.1	-0.19/-0.55	-1.03/-1.51
Θ(15°)	-2.17/-2.83	-3.43/-3.78	-4.11/-4.08	-3.84/-3.74	-4/-4	-3.94/-4.1	-3.88/-3.53	-2.87/-2.02	-1.64/-1.46	-1.36/-1.29	-1.38/-1.56	-1.75/-1.91	-1.89/-1.64	-1.18/-0.77	-0.58/-0.63	-0.7/-0.68	-0.69/-0.88	-1.29/-1.76	-1.71/-1.14	-0.59/-0.14	0.04/-0.03	-0.05/-0.17	-0.35/-0.65	-1.06/-1.56
Θ(22.5°)	-2.7/-3.11	-3.68/-4.28	-4.32/-3.66	-3.43/-3.34	-3.34/-3.31	-3.47/-3.79	-3.82/-3.21	-1.95/-1.08	-0.57/-0.41	-0.4/-0.42	-0.46/-0.55	-0.8/-1.29	-1.92/-1.39	-1.03/-0.97	-1.02/-1.04	-1.13/-1.31	-1.53/-1.74	-1.58/-1.27	-1.1/-1.03	-1.1/-1.11	-0.94/-0.73	-0.8/-1.18	-0.73/-2.26	
Θ(30°)	-3.26/-3.13	-3.43/-4.19	-4.85/-4.85	-4.29/-3.63	-3.19/-2.71	-2.76/-3.21	-3.76/-3.37	-2.19/-1.05	-0.48/-0.37	-0.4/-0.21	-0.42/-1.25	-2.52/-3.58	-3.66/-3.32	-2.5/-2.14	-2.06/-2.26	-2.61/-2.91	-3.02/-2.82	-2.3/-2.04	-2.2/-2.57	-2.88/-2.56	-1.74/-1.23	-1.29/-1.19	-2.72/-3.26	
Θ(37.5°)	-3.95/-3.59	-4.21/-5.47	-6.12/-6.36	-5.77/-5.59	-4.04/-2.95	-2.58/-2.88	-3.63/-3.86	-3.23/-2.08	-1.69/-1.81	-2.07/-1.95	-1.29/-0.72	-0.99/-2.26	-3.82/-5.09	-5.18/-4.95	-4.06/-3.63	-3.73/-4.06	-4.5/-4.78	-4.84/-4.4	-3.57/-3.26	-3.59/-4.39	-4.82/-3.94	-2.75/-2.24	-2.51/-3.35	-4.28/-4.53
Θ(45°)	-5.24/-4.96	-5.74/-7.14	-7.69/-7.46	-7.21/-6.17	-5.22/-4.14	-3.28/-3.07	-3.73/-4.75	-4.81/-3.78	-3.02/-3.16	-3.88/-4.13	-3.29/-2.14	-1.99/-3.34	-5.28/-7.05	-6.63/-6.1	-5.76/-5.64	-5.86/-6.09	-6.5/-6.48	-6.21/-6.01	-5.53/-5.3	-5.46/-6.2	-6.55/-5.46	-4.16/-3.71	-4.23/-5.25	-6.15/-6.04
Θ(52.5°)	-6.9/-6.74	-7.88/-9.16	-8.8/-8.7	-7.52/-7.53	-6.62/-6.72	-4.88/-4.59	-4.96/-6.13	-6.34/-4.95	-4.12/-4.47	-5.63/-6.2	-5.15/-3.84	-3.88/-5.27	-7.19/-8.69	-7.79/-7.58	-8.11/-8.76	-8.55/-7.63	-7.83/-7.42	-7.03/-6.75	-6.81/-6.99	-6.52/-6.24	-5.91/-5.99	-5.55/-5.64	-6.41/-6.46	-6.77/-7.35
Θ(60°)	-8.12/-8.09	-8.78/-10.11	-10.59/-9.06	-7.58/-8.31	-6.01/-6.98	-6.17/-7.32	-8.3/-8.97	-8.44/-6.55	-5.29/-5.48	-6.55/-7.42	-6.61/-5.27	-5.13/-6.85	-8.96/-10.72	-9.63/-8.97	-10.31/-10.65	-10.11/-8.73	-8.52/-8.68	-8.21/-7.28	-7.34/-8.2	-6.96/-5.43	-5.63/-6.68	-7.39/-7.69	-4.57/-7.56	-8.92/-8.15
Θ(67.5°)	-10.93/-10.1	-10.17/-11.42	-10.97/-10.78	-9.26/-8.84	-9.48/-8.28	-7.56/-8.72	-10.76/-11.1	-10.2/-8	-6.55/-7.24	-8.23/-8.82	-8.38/-6.89	-6.68/-8.45	-10.09/-10.98	-11.1/-11.15	-12.36/-11.73	-10.45/-8.97	-7.93/-8.57	-8.42/-7.59	-8.05/-10.37	-7.43/-5.78	-7.34/-10.29	-10.81/-10.19	-9.71/-99	-10.44/-11.26
Θ(75°)	-11.55/-11.07	-11.15/-11.95	-11.81/-10.62	-9.73/-9.61	-10.12/-9.86	-8.83/-10.23	-11.19/-12.38	-12.09/-9.64	-8.36/-9.84	-8.45/-8.01	-9.57/-9.66	-10.25/-10.22	-10.54/-11.26	-11.79/-12.2	-11.95/-11.21	-9.84/-9.36	-7.89/-9.15	-10.01/-8.8	-9.27/-11.7	-8.2/-7.01	-9.46/-11.94	-10.86/-11.5	-10.94/-10.19	-10.78/-10.64
Θ(82.5°)	-11.46/-11.43	-11.55/-9.99	-9.37/-9.88	-9.38/-8.72	-10.67/-9.63	-8.93/-10.79	-11.51/-12.26	-11.68/-8.07	-7.58/-8.82	-8.42/-9.63	-9.63/-9.2	-11.1/-10.98	-10.41/-11.54	-12.25/-11.44	-11.77/-11.03	-10.04/-10.48	-9.51/-9.5	-9.68/-9.43	-10.24/-11.85	-8.15/-7.12	-8.86/-9.98	-10.5/-10.76	-8.67/-8.23	-9.91/-10.4
Θ(90°)	-10.91/-10.07	-9.87/-9.95	-8.54/-8.93	-9.69/-8.26	-10.74/-11.95	-10.22/-10.13	-10.77/-11.52	-10.68/-7.84	-7.13/-6.8	-5.78/-8.35	-10.86/-9.87	-10.89/-10.87	-10.13/-11.18	-12.04/-10.6	-11.07/-11.22	-9.9/-9.8	-8.86/-7.73	-8.49/-9.57	-11.65/-11.63	-7.34/-6.42	-9.89/-10.24	-9.69/-10.19	-5.59/-8.27	-10.3/-10.67
Θ(97.5°)	-10.45/-9.5	-10.43/-10.1	-7.76/-8.17	-9.51/-7.13	-8.49/-11.11	-10.78/-10.57	-10.81/-10.62	-9.84/-7.76	-7.5/-5.98	-4.35/-7.62	-10.55/-9.89	-12.05/-11.12	-9.91/-11.08	-11.2/-9.38	-10.75/-10.19	-8.28/-9.21	-8.56/-8	-8.36/-9.42	-10.95/-10.82	-7.65/-6.79	-9.69/-9.26	-7.7/-8.47	-8.17/-8.18	-10.18/-10.27
Θ(105°)	-10.21/-9.32	-10.27/-9.56	-6.2/-6.91	-8.97/-7.04	-8.34/-10.63	-10.05/-9.72	-9.51/-9.15	-8.65/-7.64	-7.69/-5.73	-3.56/-6.47	-11.36/-10.38	-10.53/-10.68	-8.79/-9.22	-10.42/-8.11	-7.9/-8.54	-7.68/-8.01	-8.12/-7.92	-8.99/-8.63	-8.54/-9.13	-7.55/-6.73	-9.92/-8.73	-6.21/-6.26	-7.2/-7.96	-8.92/-9.6
Θ(112.5°)	-8.18/-7.02	-8.73/-10.24	-7.44/-7.33	-7.93/-5.37	-7.34/-8.78	-7.06/-6.83	-8.05/-6.53	-7.31/-6.92	-7.89/-5.14	-3.63/-4.44	-12.45/-9.55	-12.15/-10.12	-8.15/-8.68	-9.31/-8.58	-8.58/-9.61	-7.58/-7.22	-8.84/-9.93	-8.92/-8.14	-8.41/-9.15	-7.14/-7.41	-9.2/-7.46	-5.82/-6.48	-7.63/-6.57	-6.56/-6.03
Θ(120°)	-8.09/-7.27	-7.84/-9.96	-7/-6.62	-6.59/-4.82	-6.72/-9.1	-7.06/-6.13	-7.21/-7.98	-5.01/-4.44	-7.12/-7.21	-4.49/-6.98	-11.46/-9.43	-10.77/-10.23	-9.1/-8.14	-10.85/-9.55	-9.11/-9.11	-7.21/-6.74	-7.8/-7.41	-7.04/-7.19	-8.62/-9.81	-9.12/-8.36	-9.25/-8.85	-6.92/-6.25	-5.05/-3.18	-3.61/-6.3
Θ(127.5°)	-8.32/-7.58	-9.16/-12.65	-10.38/-8.06	-5.88/-4.03	-5.46/-7.72	-6.56/-5.76	-7.19/-7.13	-4.17/-3.56	-6.21/-8.2	-6.93/-8.72	-11.09/-10.64	-9.51/-9.78	-10.23/-9.4	-10.06/-8.57	-5.66/-4.78	-5.73/-7.75	-8.99/-8.63	-8.84/-9.45	-9.5/-9.13	-8.83/-8.36	-6.21/-6.26	-7.2/-7.96	-8.92/-9.6	
Θ(135°)	-8.22/-6.73	-7.85/-10.29	-9.53/-8.56	-6.41/-5.07	-6.09/-6.47	-5.16/-5.2	-7.84/-8.72	-6.33/-5.31	-6.81/-7.52	-6.62/-8.04	-10.43/-8.16	-7.9/-9.29	-11.24/-10.81	-8.59/-7.99	-8.68/-7.85	-5.43/-4.81	-6.17/-8.95	-9.63/-7.8	-6.78/-8.31	-10.37/-10.06	-8.98/-8.13	-8.29/-8.37	-6.06/-4.84	-5.78/-8.21
Θ(142.5°)	-8.69/-7.61	-7.41/-8.03	-9.18/-9.26	-9.28/-8.05	-7.74/-7.62	-5.86/-5.5	-7.9/-9.26	-7.8/-7.9	-9.75/-9.29	-9.54/-10.16	-9.57/-7.25	-6.76/-8.56	-10.11/-8.49	-6.35/-5.7	-6.25/-6.79	-4.79/-5.28	-7.46/-9.3	-7.79/-7.69	-6.55/-7.32	-9.58/-9.62	-7.93/-7.44	-7.39/-7.44	-6.42/-6.4	-7.8/-9.53
Θ(150°)	-11.97/-9.36	-8.89/-9.31	-9.85/-10.31	-11.01/-94	-8.5/-8.34	-4.71/-7.06	-8.03/-8.99	-9.39/-9.1	-9.54/-10.29	-8.17/-8.35	-6.15/-7.39	-8.61/-8.73	-5.31/-5.12	-6.89/-6.41	-6.15/-6.48	-7.28/-8.35	-7.71/-6.82	-6.15/-7.33	-10.05/-11.46	-10.9/-9.29	-8.25/-7.8	-6.84/-6.72	-7.44/-7.7	
Θ(157.5°)	-10.41/-11.03	-10.13/-9.36	-8.91/-9	-9.36/-9.34	-9.04/-8.31	-8.63/-8.64	-9.46/-9.17	-9.71/-9.22	-8.2/-7.67	-7.29/-6.97	-6.48/-6.33	-6.47/-6.86	-6.74/-6.39	-5.51/-5.14	-4.95/-5.11	-5.63/-6.49	-7.19/-7.21	-6.43/-5.88	-5.81/-6.82	-8.15/-9.85	-9.81/-8.93	-7.41/-6.36	-6.23/-6.75	-7.99/-9.11
Θ(165°)	-10.42/-10.23	-8.78/-7.98	-7.68/-7.86	-8.23/-9.15	-10.08/-10.83	-11.13/-10.89	-10.87/-10.14	-9.71/-8.52	-7.92/-7.29	-6.94/-6.72	-6.85/-6.89	-6.67/-6.1	-5.85/-5.98	-6.17/-6.07	-6.34/-6.52	-7.33/-8.46	-8.29/-7.35	-6.51/-5.91	-5.57/-5.42	-5.85/-6.39	-7.73/-7.69	-7.42/-7.02	-7.51/-7.87	-8.7/-10.32
Θ(172.5°)	-9.25/-8.84	-8.56/-8.46	-8.62/-8.93	-9.18/-10.26	-1.04/-1.13	-11.66/-11.94	-1.04/-1.03	-8.13/-7.41	-7.12/-7.69	-6.84/-6.34	-6.05/-5.87	-6.76/-5.95	-6.45/-7.24	-8.18/-8.76	-6.94/-8.05	-11.24/-10.25	-9.24/-7.94	-6.84/-6.58	-5.89/-6.77	-6.22/-6.8	-7.64/-7.12	-8.55/-8.95	-9.6/-9.76	-10.12/-9.61
Θ(180°)	-9.55/-9.9	-10.59/-11.01	-10.7/-11	-11.34/-11.6	-11.49/-10.99	-10.26/-8.78	-7.71/-7.08	-6.57/-6.21	-6/-5.88	-5.6/-5.32	-5.26/-5.41	-5.86/-6.59	-7.67/-8.56	-9.85/-10.92	-11.21/-11.5	-12.07/-11.92	-11.06/-9.96	-8.82/-8.01	-7.42/-7.32	-7.71/-8.16	-8.35/-8.31	-8.08/-8.08	-8.49/-9.02	-9.49/-9.63
Freq(Hz)	2.45G/Pol.	Theta-	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-2.7/-2.23	-1.57/-1.05	-0.71/-0.53	-0.51/-0.59	-0.67/-0.88	-0.84/-1.02	-1.39/-1.28	-1.07/-0.97	-1.16/-1.54	-1.96/-2.29	-2.5/-2.65	-2.74/-2.73	-2.25/-1.82	-1.31/-0.92	-0.61/-0.41	-0.43/-0.57	-0.71/-0.86	-1.17/-1.65	-2.18/-2.51	-2.58/-2.58	-2.57/-2.71	-2.7/-2.89	-3.17/-3.09	-3.04/-2.95
Θ(7.5°)	-2.63/-2.02	-1.28/-0.74	-0.47/-0.35	-0.32/-0.39	-0.52/-0.77	-1.18/-1.81	-2.43/-2.98	-3.38/-3.37	-3.41/-3.39	-3.2/-3.19	-2.75/-2.49	-2.37/-2.34	-1.9/-1.4	-0.77/-0.35	-0.07/-0.05	-0.01/-0.18	-0.45/-0.31	-0.23/-0.38	-0.33/-0.2	-0.15/-0.22	-0.39/-0.72	-1.17/-1.68	-2.17/-2.53	-2.86/-2.84
Θ(15°)	-1.08/-0.41	0.34/-0.93	1.27/-1.44	1.51/-49	1.35/-108	0.71/-0.28	-0.26/-0.92	-1.47/-1.87	-2.21/-2.57	-2.95/-3.14	-1.38/-2.97	-0.165/-1.08	-0.330/-22	0.57/-0.78	0.83/-0.75	0.580/-43	0.510/-64	0.861/-06	1.21/-26	1.20/-96	0.540/-05	-0.44/-0.82	-1.06/-1.26	
Θ(22.5°)	0.170/-63	1.31/-0.21	2.52/-2.83	2.95/-93	2.72/-234	1.93/-161	1.41/-13	1.150/-94	0.560/-06	-0.6/-1.31	-1.97/-2.45	-2.61/-2.27	-1.54/-0.71	-0.020/-46	0.730/-83	0.790/-62	0.360/-2	0.140/-16	0.290/-53	0.871/-2	1.45/-154	1.45/-114	0.750/-43	0.240/-08
Θ(30°)	0.50/-75	1.29/-92	2.51/-291	3.08/-3	2.72/-229	1.96/-192	2.11/-24	2.632/-74	2.57/-224	1.71/-1.07	0.44/-0.13	-0.62/-0.92	-0.78/-0.33	0.190/-53	0.630/-58	0.410/-22	0.120/-13	0.220/-23	0.130/-03	0.120/-53	1.06/-155	1.85/-192	1.78/-142	0.990/-61
Θ(37.5°)	1.27/-146	1.64/-183	2.04/-225	2.32/-222	1.97/-177	1.78/-194	2.32/-74	3.153/-38	3.703/-1	2.672/-26	1.89/-153	1.05/-12	1.26/-15	0.910/-81	0.931/-21	1.431/-47	1.351/-08	0.770/-64	0.961/-5	2.032/-36	2.350/-21	1.551/-29		
Θ(45°)	1.63/-196	2.27/-237	2.37/-234	2.27/-208	1.85/-169	1.73/-192	2.15/-254	3.153/-64	3.793/-51	2.992/-55	2.292/-14	2.06/-204	2.06/-2.11	2.12/-0.9										



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

Θ(22.5°)	-6.11/-5.98	-4.48/-2.48	-1.48/-0.03	0.540/-17	-1.48/-1.97	-1.11/-0.67	-1.31/-3.74	-5.34/-4.32	-3.42/-3.91	-4.64/-6.26	-6.14/-5.21	-5.28/-5.96	-6.54/-6.63	-7.03/-7.23	-6.05/-3.79	-1.75/-1.24	-2.81/-4.14	-2.94/-2.08	-1.51/-1.44	-1.72/-1.95	-2.74/-4.14	-6.38/-7.16	-5.64/-4.25	-4.61/-5.87
Θ(30°)	-2.86/-2.77	-5.02/-6.48	-5.92/-5.68	-3.44/-1.51	-0.29/-0.4	-1.27/-1.3	-1.73/-2.71	-3.25/-3.07	-2.3/-0.66	-0.68/-3.18	-5.87/-9.6	-9.71/-9.89	-9.77/-7.59	-6.71/-7.9	-4.31/-2.45	-2.57/-2.72	-3.22/-4.01	-5.11/-2.44	-1.33/-1.96	-1.48/-1.13	-1.37/-3.72	-5.45/-5.32	-5.22/-3.26	-2.42/-3.5
Θ(142.5°)	-4.71/-4.34	-5.71/-5.61	-4.57/-3.28	-2.66/-3.52	-3.35/-1.82	-1.44/-2.13	-2/-1.67	-2.64/-3.02	-3.08/-1.61	-1.87/-2.93	-3.86/-1.65	-5.61/-6.47	-7.69/-7.44	-5.05/-5.47	-6.05/-5.47	-7.83/-1.18	-5.35/-4.57	-4.69/-4.41	-3.51/-1.39	0.530/69	-8.07/-3.68	-2.89/-2.81	-4.21/-5.09	-5.53/-5.69
Θ(45°)	-7.99/-9.38	-6.78/-6.1	-6.48/-4.98	-4.76/-3.98	-4.29/-3.2	-1.85/-1.21	-1.16/-2.15	-3.16/-3.2	-4.56/-4.5	-3.15/-3.78	-4.88/-6.93	-5.85/-5.24	-5.14/-4.66	-5.67/-6.37	-5.65/-7.63	-8.62/-7.83	-6.56/-5.62	-2.85/-2.56	-1.76/-0.54	-0.84/-1.07	-1.44/-3.02	-3.09/-2.28	-3.43/-7.65	-6.17/-6.98
Θ(52.5°)	-7.86/-9.51	-4.13/-4.13	-6.49/-6.41	-5.66/-3.96	-3.32/-2.27	-2.95/-2	-0.95/-3.4	-4.6/-5.98	-7.79/-6.66	-4.59/-5.1	-5.18/-6.47	-6.24/-4.8	-4.45/-3.67	-3.79/-3.16	-6.04/-9.2	-5.98/-5.72	-4.3/-11	-1.83/-1.69	-2.03/-0.95	-1.56/-2.48	-2.29/-3.64	-4.52/-5.21	-1.92/-4.82	-4.15/-4.14
Θ(60°)	-4.6/-6.79	-3.95/-5.52	-6.26/-5.06	-4.75/-7.8	-4.43/-1.96	-2.75/-3.66	-3.03/-4.86	-5.87/-6.24	-6.9/-6.68	-7.48/-7.43	-6/-5.3	-5.66/-5.18	-5.54/-3.55	-2.13/-0.26	-6.83/-7.24	-6.68/-6.62	-3.82/-2.34	-2.59/-1.47	-2.50/-6.88	-2.49/-3.98	-4.21/-4.91	-3.25/-2.72	-0.57/-1.93	-3.41/-2.92
Θ(67.5°)	-2.92/-5.63	-6.36/-6.65	-5.36/-5.73	-4.84/-5.97	-5.47/-3.75	-2.93/-4.35	-2.95/-5.77	-6.8/-8.05	-6.77/-8.04	-5.15/-7.41	-4.5/-5.13	-5.56/-5.45	-7.11/-2.35	-0.45/-0.6	-4.96/-5.88	-6.87/-6.16	-4.54/-3.34	-3.06/-2.6	-3.74/-1.14	-2.29/-3.12	-7.55/-7.15	-6.14/-4.96	-3.54/-1.68	-3.01/-2.81
Θ(75°)	-1.87/-3.87	-8.65/-7.44	-5.93/-7.07	-8.57/-7.1	-5.32/-4.31	-3.26/-6.83	-6.07/-6.59	-9.76/-10.1	-7.9/-9.24	-6.04/-6.64	-3.36/-4.16	-5.04/-3.47	-6.95/-5.14	-1.84/-0.28	-4.32/-6.84	-8.27/-9.6	-5.07/-4.42	-5.85/-4.86	-4.86/-2.71	-3.93/-3.87	-5.19/-8.68	-5.48/-5.37	-5.59/-1.46	-2.46/-1.72
Θ(82.5°)	-4.03/-5.28	-7.63/-7.13	-6.69/-6.71	-10.19/-5.73	-3.92/-4.45	-2.24/-6.77	-6.95/-9.16	-6.82/-7.27	-7.44/-8.69	-6.83/-8.01	-4.96/-4.54	-4.46/-5.61	-6.33/-4.16	-2.78/-2.31	-6.49/-6.92	-7.8/-7.95	-3.45/-3.78	-6.83/-8.21	-7.61/-4.79	-3.8/-3.9	-5.22/-5.67	-6.52/-8.1	-8.21/-3.9	-4.32/-4.6
Θ(90°)	-6.48/-8.2	-7.78/-9.54	-7.8/-7.26	-11.16/-8.19	-6.18/-4.5	-4.79/-7.6	-9.84/-5.8	-5.79/-6.38	-5.12/-6.97	-7.4/-8.57	-5.73/-6.05	-4.83/-4.07	-4.5/-6.18	-6.6/-4.4	-5.24/-6.42	-5.48/-7.05	-3.36/-4.22	-8.26/-7.56	-5.57/-8.44	-5.61/-2.81	-3.95/-6.22	-4.95/-4.31	-7.35/-7.98	-6.23/-5.43
Θ(97.5°)	-9.85/-9.96	-8.25/-9.71	-7.77/-9.01	-8.76/-9.4	-5.31/-4.23	-3.53/-6.05	-7.73/-7.45	-4.98/-4.24	-3.49/-5.84	-7.62/-9.07	-5.31/-5.37	-4.61/-5.51	-7.24/-7.02	-7.04/-5.02	-4.2/-4.37	-4.17/-5	-3.9/-5.87	-7.16/-6.2	-4.97/-8.89	-6.46/-3.33	-2.85/-5.62	-4.84/-4.49	-7.01/-7.51	-8.91/-7.24
Θ(105°)	-9.65/-9.33	-11.75/-7.42	-7.43/-7.39	-6.3/-6.83	-4.2/-5.62	-8.24/-6.1	-5.49/-7.04	-6.21/-4.11	-3.5/-5.93	-5.77/-7.51	-5.23/-7.29	-6.78/-3.9	-8.23/-8.07	-6.21/-4.86	-6.23/-4.09	-3.93/-5	-4.19/-7.34	-9.6/-6.62	-3.81/-7.48	-6.95/-7.37	-4.53/-3.93	-4.93/-3.42	-5.92/-8.26	-8.09/-10.22
Θ(112.5°)	-8.91/-9.24	-6.99/-8.36	-5.94/-4.86	-7.19/-6.52	-5.18/-6.2	-9.31/-8.94	-6.41/-6.3	-7.58/-6.03	-2.53/-4.07	-5.09/-4.23	-3.36/-8.1	-6.98/-8.66	-6.38/-8.82	-8.28/-5.37	-7.15/-2.84	-4.54/-4.59	-5.6/-6.26	-9.55/-7.03	-4.16/-7.22	-6.52/-7.54	-6.17/-4.51	-2.93/-5.14	-6.04/-7.67	-9.87/-12.46
Θ(120°)	-8.94/-4.62	-7.03/-10.39	-4.41/-2.34	-6.37/-5.42	-5.46/-5.7	-6.25/-7.83	-8.4/-6.28	-7.09/-6.45	-7.15/-4.33	-4.69/-6.95	-5.9/-7.27	-7.09/-8.5	-4.78/-5.31	-4.47/-6.16	-5.9/-5.44	-3.63/-4.11	-5.84/-5.47	-4.98/-4.36	-5.9/-6.28	-5.6/-5.1	-4.73/-4.22	-1.7/-8.94	-10.85/-7.67	-8.48/-7.36
Θ(127.5°)	-5.62/-4.41	-6.96/-1.21	-7.67/-6.84	-9/-7.64	-4.68/-4.45	-9.21/-7.4	-8.52/-8.57	-7.41/-8.17	-6.13/-6.58	-4.66/-4.06	-5.19/-3.82	-0.85/-3.01	-1.68/-2.91	-1.59/-6.62	-7.19/-4.69	-4.23/-4.34	-5.15/-7.96	-4.02/-4.59	-5.37/-5.22	-3.57/-5.06	-6.65/-7.66	-4.85/-7.27	-7.75/-6.56	-6.69/-6.48
Θ(135°)	-5.85/-6.24	-5.88/-6.74	-8.01/-6.23	-6.39/-7.47	-5.53/-6.5	-9.77/-8.34	-7.41/-6.85	-5.99/-5.79	-10.25/-3.37	-3.46/-1.87	-4.46/-3.06	-4.49/-5.62	-3.63/-6.71	-3.91/-6.64	-6.15/-6.07	-5.9/-5.03	-5.76/-8.52	-5.84/-5.55	-5.53/-4.96	-3.54/-3.94	-10.03/-6.74	-5.42/-7.42	-9.83/-7.84	-1.87/-4.39
Θ(142.5°)	-5.35/-0.08	-7.78/-7.39	-7.32/-5.73	-8.98/-6.38	-5.16/-10.36	-7.34/-7.92	-8.02/-6.62	-6.23/-4.2	-6.81/-6.59	-6.1/-3.97	-4.28/-4.19	-5.28/-6.96	-6.49/-5.3	-7.57/-7.75	-8.44/-4.17	-4.19/-6.95	-7.98/-5.05	-1.56/-3.87	-5.94/-5.34	-4.13/-4.25	-8.56/-8.91	-9.38/-9.09	-5.35/-6.12	-7.81/-5.29
Θ(150°)	-5.06/-5.82	-8.61/-6.2	-6.58/-5.39	-7.23/-8.97	-8.59/-6.66	-8.04/-8.05	-3.36/-4.29	-6.36/-3.06	-4.26/-5.15	-5.88/-4.57	-1.93/-5.33	-8.17/-3.75	-5.65/-6.95	-4.44/-5.7	-6.95/-6.56	-3.79/-3.58	-5/-5.02	-6.52/-6.28	-8.75/-6.28	-8.79/-7.6	-6.85/-10.73	-9.59/-8.07	-7.91/-9.67	-10.96/-8.02
Θ(157.5°)	-4.41/-5.13	-5.48/-7.49	-10.29/-8.49	-8.98/-8.9	-8.05/-8.39	-8.75/-5.76	-5.63/-6.38	-4.57/-3.61	-4.02/-3.18	-4.17/-6.21	-6.35/-4.38	-2.99/-4.62	-8.45/-4.36	-1.92/-2.49	-5.5/-8.72	-7.57/-6.22	-6.61/-5	-6.5/-6.49	-6.79/-7.95	-7.63/-8.45	-10.97/-8.06	-10.28/-7.91	-4.99/-5.85	-5.67/-5.28
Θ(165°)	-8.39/-9.63	-8.57/-9.45	-10.07/-9.97	-10.14/-10.03	-8.62/-8.39	-7.21/-5.47	-5.97/-7.85	-8.36/-8.28	-8.03/-7.69	-7.13/-5.83	-4.66/-4.41	-5.81/-6.4	-6.45/-6.87	-7.98/-9.44	-10.32/-10.34	-10.01/-8.75	-6.8/-5.18	-5.7/-5.57	-6.81/-8.71	-11.84/-12.47	-8.29/-5.73	-5.88/-4.73	-9.64/-10.73	-10.11/-8.02
Θ(172.5°)	-3.95/-5.24	-6.5/-9.44	-10.63/-10.6	-11.16/-11.72	-8.52/-6.36	-5.83/-5.22	-5.73/-7.1	-8.08/-9.61	-9.32/-6.51	-9.81/-10.25	-9.45/-9.3	-9.46/-9.72	-9.63/-9.29	-8.51/-7.77	-6.89/-6	-5.93/-5.57	-5.83/-6.95	-7.89/-9.3	-11.14/-10.42	-10.28/-9.5	-8.87/-9.01	-9.07/-9.62	-9.36/-7.17	-5.34/-4.12
Θ(180°)	-6.36/-6.18	-6.77/-8.31	-7.79/-6.62	-7.13/-7.6	-7.48/-6.96	-6.07/-5.97	-6.15/-6.13	-5.94/-6	-6.21/-6.04	-5.78/-5.78	-6.01/-6.66	-6.79/-6.59	-6.12/-6.85	-8.28/-9.14	-8.29/-8.34	-7.76/-7.95	-7.54/-6.84	-6.84/-6.25	-5.87/-6.16	-7.21/-7.27	-6.21/-6.32	-5.61/-6.5		
Freq(Hz)	5.36GPol	ThetaL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-2.22/-2.39	-2.21/-2.1	-1.75/-1.64	-2.16/-2.67	-3.08/-3.39	-4.57/-5.96	-6.84/-7.05	-7.1/-6.21	-5.9/-5.11	-3.47/-2.5	-2.12/-1.45	-1.83/-1.99	-1.34/-1.36	-1.24/-1.34	-1.6/-1.73	-2.11/-2.37	-2.96/-3.81	-4.14/-5.85	-7.06/-7.21	-7.51/-6.22	-5.08/-5.1	-4.23/-3.21	-3.36/-2.8	-2.07/-1.91
Θ(7.5°)	-1.37/-1.46	-1.21/-0.8	-0.53/-0.45	-0.5/-1.28	-1.83/-2.1	-3.06/-2.43	-5.07/-6.08	-6.52/-7.09	-6.35/-6.23	-5.34/-4.38	-3.66/-2.99	-3.09/-3.07	-2.5/-2.44	-1.82/-1.47	-1.98/-2.35	-2.4/-2.38	-2.56/-3.51	-3.91/-4.58	-5.6/-5.48	-5.44/-4.89	-3.65/-2.58	-2.58/-1.96	-1.49/-1.79	-1.16/-0.99
Θ(15°)	-0.62/-0.81	-1.21/-0.74	-0.57/-0.56	-0.63/-0.81	-0.87/-1.29	-2.04/-3.83	-4.56/-4.94	-4.48/-4.06	-3.51/-2.66	-1.91/-0.91	-0.43/-0.35	0.035/-0.03	0.220/-4.1	0.430/-4.6	0.310/-17	0.250/-25	0.190/-03	-0.01/-0	-0.26/-0.58	-1.18/-2.54	-2.12/-1.39	-0.16/-0.39	-0.35/-0.5	
Θ(22.5°)	0.640/-6	0.05/-0.77	-1.14/-0.83	-0.75/-1	-2.45/-3.41	-3.99/-5.89	-6.56/-5.35	-3.89/-2.97	-1.68/-0.22	1.21/-1.65	1.81/-1.22	0.610/-37	0.190/-47	0.881/-53	2.062/-37	2.11/-46	0.41/-0.27	0.48/-1	1.091/-03	0.21/-0.71	-1.58/-2.28	-1.37/-0.68	-0.26/-0.15	0.150/-62
Θ(30°)	3.544/-05	3.67/-27	0.89/-0.77	-1.36/-1.21	-2.91/-2.47	-1.48/-0.98	-0.020/-23	1.081/-55	0.981/-16	2.213/-02	3.403/-53	3.283/-13	3.042/-93	2.712/-43	2.773/-04	2.310/-46	-0.58/-0.18	-1.23/-1.27	-0.42/-0.77	2.212/-73	2.31/-24	0.280/-56	2.263/-25	3.12/-94
Θ(37.5°)	3.424/-62	4.864/-12	3.913/-14	1.340/-09	-0.75/-0.19	0.971/-68	2.562/-67	2.64/-24	3.34/-14	4.44/-26	4.184/-84	4.764/-29	4.214/-51	4.894/-97	4.533/-62	2.451/-63	2.412/-1	0.340/-15	1.583/-35	3.723/-18	2.953/-15	2.462/-2	3.994/-89	4.32/-88
Θ(45°)	5.044/-48	56/-37	5.194/-63	2.871/-44	-0.15/-0.04	2.682/-07	0.140/-81	1.340/-99	3.034/-64	4.774/-37	4.675/-61	5.444/-92	5.035/-09	5.566/-25	6.275/-3	4.314/-64	5.134/-1	2.21/-94	3.964/-52	4.254/-13	4.633/-68	1.862/-19	3.344/-65	5.153/-83
Θ(52.5°)	5.895/-73	5.495/-13	4.965/-31	4.022/-56	0.631/-65	3.072/-78	-0.14/-2.15	-0.44/-2.12	3.386/-15	5.555/-23	5.746/-02	5.435/-75	5.385/-64	5.756/-66	7.086/-12	5.696/-07	6.425/-4	3.693/-22	4.845/-86	5.986/-63	7.6/-63	3.455/-62	2.894/-6	6.156/-01
Θ(60°)	5.696/-46	6.35/-52	4.985/-27	4.984/-04	2.430/-82	2.013/-02	0.91/-1	1.243/-33	3.394/-98	6.025/-69	6.466/-59	6.37/-01	6.276/-06	5.415/-76	7.066/-52	6.135/-84	6.586/-64	4.494/-6	5.135/-95	7.566/-44	8.497/-26	4.933/-86	2.764/-39	5.074/-83
Θ(67.5°)	4.826/-38	6.836/-56	5.274/-82	4.564/-91	3.151/-57	0.961/-3	1.150/-46	0.862/-64	2.553/-99	5.665/-39	6.217/-7	7.586/-05	4.325/-23	7.267/-28	6.837/-19	4.884/-9	6.636/-18	7.678/85	6.688/-24	5.723/-2	9.932/-34	2.213/-17		
Θ(75°)	4.096/-09	7.276/-83	5.64/-63	4.084/-37	3.191/-59	0.9/-0.07	-0.35/-1.7	0.392/-28	1.262/-3	5.234/-87	4.595/-99	7.317/-29	6.124/-21	4.095/-01	7.688/-24	7.897/-17	6.556/-96	4.164/-94	4.24/-57	7.816/-54	8.078/-73	6.183/-25	3.30/-48	-1.01/-59
Θ(82.5°)	3.625/-66	6.646/-34	4.853/-75	2.72/-2	1.940/-39	0.67/-0.67	-2.45/-1.4	1.251/-5	0.180/-58	3.833/-88	3.655/-19	6.916/-2	5.294/-46	4.086/-14	8.018/-26	7.856/-73	5.886/-78	4.773/-99	3.363/-47	5.666/-68	7.418/-59	6.573/-43	3.571/-	0.80/-41
Θ(90°)	2.944/-03	55/-13	3.973/-	0.640/-22																				



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

Θ (75°)	-3.62/-5.15	-4.56/-6.07	-5.15/-2.94	-6.27/-8.09	-8.26/-7.58	-5.18/-4.96	-6.37/-5.12	-6.17/-5.27	-9.88/-9.59	-9.26/-5.97	-5.9/-4.87	-8.44/-8.05	-8.31/-3.06	-4.33/-5.11	-5.81/-6.97	-9.86/-10.95	-5.94/-3.96	-3.71/-5.12	-5.35/-5.07	-3.9/-5.84	-8.31/-9.34	-10.25/-8.32	-7.36/-2.88	-3.13/-2.57
Θ (82.5°)	-7.02/-7.09	-6.88/-5.39	-7.69/-4.99	-10.59/-8.22	-7.02/-4.33	-3.41/-7.56	-7.17/-7.97	-6.09/-6.94	-9.63/-9.63	-8.62/-7.15	-7.08/-3.84	-8.36/-7.13	-6.45/-2.66	-4.95/-6.45	-7.1/-6.34	-8.6/-10.44	-4.59/-3.97	-3.44/-8.68	-7.75/-4.76	-4.59/-5.43	-6.46/-6.51	-8.62/-9.92	-9.46/-4.32	-5.07/-3.92
Θ (90°)	-9.42/-9.17	-8.23/-6.81	-8.01/-5.66	-10.2/-8.56	-5.5/-3.23	-2.54/-7.79	-9.83/-9.02	-5.22/-6.34	-8.46/-10.31	-6.91/-7.12	-6.78/-6.12	-6.44/-6.54	-7.31/-3.95	-5.3/-7.76	-8.82/-7.38	-7.34/-6.54	-3.69/-4.93	-4.32/-10.27	-11.2/-7.02	-6.47/-5.24	-5.35/-4.57	-8.52/-7.36	-8.36/-8.47	-9.56/-7.68
Θ (97.5°)	-11.15/-7.95	-8.56/-7.31	-8.38/-8.32	-9.32/-7.09	-6.16/-3.21	-2.32/-7.91	-9.51/-8.14	-3.79/-5.81	-6.66/-8.2	-5.18/-7.31	-7.27/-6.32	-6.31/-7.23	-6.34/-5.81	-7.88/-9.57	-7.9/-6.28	-5.43/-4.74	-3.74/-5.34	-6.26/-10	-10.11/-9.06	-8.29/-5.31	-6.03/-5.97	-7.17/-5.99	-6.87/-9.77	-11.74/-12.35
Θ (105°)	-9.36/-9.29	-8.96/-5.56	-7.37/-8.74	-5.36/-6.51	-5.09/-3.93	-3.64/-7.29	-8.71/-6.03	-5.74/-4.37	-5.94/-8.6	-5.22/-6.27	-9.36/-9.28	-6.66/-7.62	-6.53/-8.38	-9.16/-7.7	-8.29/-6.31	-4.72/-4.34	-4.1/-7.23	-8.55/-8.25	-7.21/-8.8	-11.16/-6.49	-6.6/-4.3	-6.54/-8.12	-6.82/-8.16	-12.26/-11.27
Θ (112.5°)	-5.75/-6.54	-7.75/-6.41	-7.63/-5.9	-4.9/-6.35	-6.12/-5.93	-5.37/-6.06	-7.94/-5.98	-6.8/-6.58	-4.65/-5.54	-5.1/-4.09	-8.85/-10.5	-7.23/-7.9	-7.32/-11.61	-10.72/-11.21	-7.97/-7.24	-3.95/-4.43	-4.84/-8.72	-9.87/-8.01	-7.31/-10.02	-10.89/-7.69	-3.11/-3.61	-5.45/-7.15	-7.98/-7.72	-12.01/-12
Θ (120°)	-7.65/-6.7	-10.6/-7.14	-10.6/-4.92	-7.36/-7.19	-7.06/-7.31	-9.09/-7.82	-6.91/-7.4	-7.05/-9.04	-7.49/-5.67	-6.03/-4.36	-6.76/-7.41	-6.17/-7.55	-11.04/-11.79	-10.76/-9.53	-5.23/-4.77	-4.42/-2.94	-5.43/-7.52	-7.16/-7.47	-8.57/-9.64	-7.28/-9.56	-6.1/-3.65	-4.6/-5.41	-8.97/-10.05	-10.88/-12.15
Θ (127.5°)	-4.39/-5.47	-7.52/-7.2	-5.63/-5.56	-6.8/-7.36	-5.32/-7.93	-7.34/-10.11	-8.56/-7.05	-7.47/-6.85	-6.49/-6.12	-7.87/-6.39	-6.05/-7.31	-8.57/-11.5	-9.28/-11.24	-10.03/-7.53	-7.54/-7.68	-5.28/-4.5	-6.42/-7.56	-7.93/-7.64	-5.71/-6.47	-7.47/-7.38	-6.54/-4.88	-4.68/-5.27	-10.09/-8.57	-6.59/-5.33
Θ (135°)	-5.8/-4.16	-6.79/-5.66	-5.49/-6.7	-8.39/-8.6	-7.06/-7.86	-8.71/-9.29	-8.01/-9.96	-7.76/-8.8	-5.73/-5.11	-4.3/-5.69	-6.98/-6.03	-7.67/-6.23	-6.58/-6.56	-8.74/-8.2	-8.97/-6.73	-5.86/-6.88	-6.28/-6.19	-9.72/-6.15	-7.03/-5.4	-6.52/-5.87	-8.45/-8.45	-7.68/-6.81	-9.24/-8.6	-10.95/-4.93
Θ (142.5°)	-8.11/-8.83	-6.97/-8.91	-8.92/-9.69	-9.54/-7.71	-7.55/-9.52	-9.11/-12.17	-10.76/-11.43	-8.58/-9.43	-5.74/-5.65	-7.85/-5.94	-5.92/-7.85	-8.56/-8.87	-7.53/-8.36	-9.53/-7.14	-6.89/-7.87	-7.28/-6.49	-8.27/-5.85	-9.45/-6.13	-7.77/-4.99	-8.44/-8.08	-11.08/-10.07	-10.61/-10.71	-10.55/-9.92	-9.03/-8.13
Θ (150°)	-7.75/-6.92	-6.06/-6.53	-5/-3.91	-5.14/-9.45	-9.79/-10.45	-11.75/-9.61	-7.72/-9	-4.44/-4.32	-7.01/-5.37	-6.78/-9.94	-10.59/-6.05	-9.08/-11.7	-8.85/-9.29	-7.63/-9.41	-8.26/-7.67	-9.66/-7.3	-7.88/-7.4	-5.89/-6.98	-7.54/-9.22	-9.4/-9.42	-8.48/-6.6	-10.27/-11.06	-9.24/-8.65	-7.1/-6.36
Θ (157.5°)	-7.19/-9.72	-7.53/-7.84	-9.82/-9.16	-8.78/-7.55	-8.02/-9.14	-5.53/-5.39	-8.07/-7.74	-6.74/-6.44	-5.79/-5.39	-5.14/-6.18	-9.99/-8.92	-8.52/-8.63	-7.48/-7.37	-8.8/-9.92	-10.22/-8.03	-6.84/-6.53	-8.19/-7.83	-5.33/-5.96	-7.81/-7.98	-9.47/-9.34	-9.95/-10.63	-9.7/-7.76	-8.41/-9.56	-7.86/-4.99
Θ (165°)	-10.87/-8.79	-5.57/-5.15	-8.1/-10.42	-9.9/-11.09	-12.58/-11.11	-9.71/-10.99	-9/-6.92	-6.8/-6.52	-6.82/-7.55	-8.95/-9.31	-9.58/-11.74	-11.49/-9.77	-9.07/-8.01	-8.98/-9.37	-8.92/-9.1	-9.53/-9.5	-9.55/-9.47	-8.58/-8.62	-10.2/-10.12	-10.37/-11.69	-12.03/-9.91	-10.87/-10.59	-9.09/-8.12	-7.95/-8.7
Θ (172.5°)	-11.35/-9.79	-7.66/-8.99	-10.06/-8.44	-8.67/-7.99	-7.36/-7.11	-6.32/-7.04	-8.63/-8.17	-7.64/-7.11	-7.39/-7.17	-6.98/-8.07	-8.63/-8.93	-8.77/-9.28	-9.37/-9.66	-10.61/-10.25	-8.79/-8.62	-7.41/-8.47	-10.32/-11.12	-10.34/-9.74	-8.22/-8.02	-8.17/-7.68	-7.34/-7.64	-7.47/-7.55	-8.25/-8.64	-8.9/-9.69
Θ (180°)	-10.96/-8.81	-8.62/-8.08	-7.34/-8.44	-10.06/-10.8	-10.37/-8.46	-8.06/-8.51	-8.98/-9.47	-9.77/-9.55	-9.44/-8.58	-7.94/-8.41	-9.49/-8.83	-8.75/-9.25	-8.88/-8.83	-10.04/-9.63	-10.41/-10.66	-10.96/-10.76	-10.1/-9.85	-9.08/-8.16	-7.92/-7.57	-7.51/-7.91	-8.82/-9.59	-8.87/-8.62	-7.69/-8.54	-11.31/-1.97
Freq(Hz)	5.785GPol.	Theta	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
DG(dB)	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ (0°)	-3.66/-3.79	-4.38/-4.87	-5.16/-5.58	-5.57/-5.67	-6.62/-7.51	-7.98/-7.88	-8.22/-8.84	-8.81/-7.97	-7.25/-6.66	-5.67/-4.92	-4.59/-4.35	-3.64/-3.9	-3.66/-3.58	-3.37/-2.96	-3.4/-4.22	-4.62/-5.03	-5.94/-6.88	-7.66/-8.37	-8.71/-7.91	-7.53/-6.72	-5.73/-4.93	-4.48/-3.93	-3.52/-3.78	-3.75/-3.63
Θ (7.5°)	-1.18/-1.28	-1.2/-1.7	-1.84/-1.93	-2.58/-2	-2.21/-2.94	-3.48/-4.19	-4.5/-4.57	-5.26/-4.72	-3.96/-3.48	-3.51/-3.25	-2.77/-3.08	-3.06/-3.42	-3.56/-3.47	-4.01/-3.66	-3.13/-3.12	-3.67/-3.79	-4.26/-4.28	-4.54/-4.39	-4.58/-5	-4.54/-3.49	-2.71/-2.26	-1.74/-1.88	-1.58/-0.86	-0.7/-0.83
Θ (15°)	-0.48/-0.85	-1.52/-1.57	-1.54/-1.31	-1.06/-0.42	0.35/-0.13	-0.66/-1.46	-1.8/-1.8	-2.18/-2.45	-2.55/-2.62	-2.9/-2.29	-1.71/-0.86	-0.3/-0.08	-0.05/-0.08	-0.47/-1.01	-1.54/-1.72	-1.88/-2.52	-3.28/-4.03	-4.83/-5.66	-6.04/-6.75	-5.52/-4.31	-2.79/-2.13	-1.33/-0.82	-0.55/-0.63	-0.81/-0.55
Θ (22.5°)	1.83/-1.57	1.01/-0.11	-0.82/-1.38	-1.09/-1.56	0.01/-0.48	-0.3/-1.05	-1.33/-0.39	0.77/-1.54	2.1/-1.9	0.78/-0.74	-1.88/-1.45	-0.122/-15	3.354/-2	3.912/-8.3	1.12/-0.26	-1.31/-2.69	-3.47/-2.59	-2.2/-2.54	-3.24/-3.49	-3.16/-3.26	-3.19/-3.54	-3.85/-3.81	-2.56/-1.18	0.53/-1.4
Θ (30°)	3.193/-2.4	3.483/-3.4	1.650/-3.4	0.100/-5	1.091/-4.7	0.590/-25	0.771/-13	1.282/-31	3.373/-26	2.542/-29	2.241/-7.4	1.281/-79	3.014	4.553/-52	1.181/-67	3.132/-96	2.331/-13	0.610/-63	1.261/-23	1.252/-3	2.741/-85	0.371/-0.77	-1.721/-109	0.552/-49
Θ (37.5°)	5.486/-48	6.896/-34	4.792/-45	2.792/-97	3.644/-06	3.932/-93	2.773/-25	3.773/-86	3.673/-23	2.972/-52	1.992/-13	2.492/-82	3.644/-16	3.83/-01	1.792/-07	3.924/-73	4.644/-09	2.753/-4	3.853/-77	4.65/-34	5.74/-76	3.84/-21	3.43/-2	2.794/-24
Θ (45°)	6.567/-39	7.146/-44	4.883/-35	3.714/-22	4.75/-11	5.064/-16	4.283/-94	3.995/-12	5.985/-94	5.284/-3	2.63/-46	5/4/-27	3.823/-85	3.643/-84	3.533/-44	5.276/-43	5.456/-17	6.075/-42	4.24/-97	6.466/-1	6/5/-94	5.224/-25	3.181/-42	2.245/-22
Θ (52.5°)	6.717/-67	8/7/-22	5.453/-45	4.065/-12	5.155/-73	5.353/-66	4.214/-29	4.885/-28	5.896/-15	5.985/-7	5.276/-77	7.046/-12	4.933/-88	4.795/-4	5.445/-85	6.647/-13	5.986/-5	6.154/-15	2.455/-23	7.267/-74	6.926/-02	5.733/-85	1.470/-56	1.835/-68
Θ (60°)	5.887/-24	7.626/-46	5.695/-22	5.565/-94	4.465/-11	5.323/-77	3.834/-76	5.374/-77	6.346/-81	6.596/-41	5.666/-65	7.426/-92	5.883/-69	4.646/-47	6.256/-27	7.348/-03	6.435/-78	5.262/-82	2.465/-98	7.478/-75	8.016/-66	6.093/-54	1.571/-	1.824/-95
Θ (67.5°)	4.966/-73	7/5/-18	5.545/-19	5.685/-71	3.464/-18	4.194/-07	4.824/-71	3.974/-3	6.317/-06	5.975/-72	5.395/-62	6.87/-22	6.324/-17	4.275/-78	5.366/-18	7.958/-16	5.855/-12	4.221/-	3.816/-46	7.148/-93	8.216/-7	6.654/-33	2.391/-76	2.023/-38
Θ (75°)	3.636/-04	6.414/-62	5.153/-27	4.534/-62	0.642/-87	2.082/-04	3.583/-68	3.113/-66	4.925/-98	4.754/-83	5.074	5.617/-12	6.783/-56	3.585/-61	4.396/-05	7.987/-47	5.124/-4	2.560/-85	4.495/-98	6.328/-08	7.66/-31	6.864/-9	2.352/-31	1.321/-71
Θ (82.5°)	3.55/-82	6.053/-87	4.051/-85	3.782/-8	-2.553/-27	0.970/-15	1.672/-12	2.13/-69	3.814/-18	2.963/-87	4.432/-65	4.76/-94	6.011/-4	3.75/-52	3.556/-19	7.416/-36	2.812/-1	0.082/-67	4.965/-21	5.857/-01	6.726/-07	6.534/-66	2.862/-1	0.140/-66
Θ (90°)	3.134/-37	5.752/-41	2.910/-56	1.960/-83	-2.612/-39	-0.722/-0.31	-2.971/-19	1.162/-52	2.863/-35	1.732/-52	3.973/-19	3.244/-92	5.520/-11	2.033/-69	3.624/-9	6.764/-84	1.670/-99	-0.623/-48	4.584/-34	4.645/-51	5.845/-9	5.414/-16	3.181/-31	0.202/-51
Θ (97.5°)	1/-1.47	3.71/-43	2.07/-0.68	-0.93/-0.53	-2.77/-0.56	-2.94/-1.78	-1.94/-0.13	0.080/-61	0.05/-2	-0.280/-23	2.72/-38	2.954/-09	3.66/-0.74	1.292/-11	2.84/-51	4.773/-47	-0.2/-1.13	-1.962/-92	3.192/-84	3.574/-63	4.575/-36	3.530/-84	0.370/-0.22	0.030/-29
Θ (105°)	-0.660/-35	0.8/-0.37	-1.26/-1.53	-1.03/-1.01	-2.61/-3.96	-6.42/-5.23	-1.88/-0.65	-1.8/-2.15	-1.67/-2.47	-3.16/-1.52	1.921/-07	2.132/-62	1/-2.55	-0.621/-06	1.163/-13	2.881/-95	-0.99/-3.08	-3.021/-73	2.723/-52	3.253/-15	3.452/-78	0.65/-1.35	-0.560/-41	-1.75/-1.49
Θ (112.5°)	-0.12/-1.52	1.89/-1.09	-3.47/-3.15	-0.16/-1.66	-4.21/-3.85	-7.64/-5.92	-4.58/-2.46	-3.67/-2.37	-0.34/-3.58	-4.52/-3.26	1.830/-11	0.82/-53	-0.14/-3.69	-0.20/-97	-0.811/-66	2.081/-23	-3.28/-7.22	-2.171/-06	2.030/-5	1.071/-1	0.822/-0.04	2.37/-1.65	-1.14/-1.29	-3.560/-95
Θ (120°)	-1.79/-3.28	0.48/-0.02	-0.54/-3.59	-2.69/-4.38	-4.71/-4.97	-8.59/-10.33	-10.72/-6.67	-4.33/-1.03	0.04/-1.99	-3.41/-2.13	-1.01/-1.73	-2.98/-1.47	0.05/-1.81	0.280/-66	0.76/-0.24	-0.96/-1.22	-2.3/-4.75	-4.42/-0.48	-1.49/-0.04	1.310/-1	-0.95/-1.47	1.14/-1.86	-3.27/-4.15	-1.91/-0.2
Θ (127.5°)	-1.69/-1.53	-1.24/-0.39	-1.36/-8.24	-3.52/-4.58	-6.46/-7.47	-6.68/-6.05	-5.9/-5.12	-5.18/-2.89	-3.27/-2.48	-2.530/-13	0.39/-0.28	-1.33/-2.53	-4.06/-1.79	0.67/-1.44	0.23/-0.05	-3.47/-3.52	-7.82/-6.59	-5.87/-5.83	-2.490/-39	-0.69/-2.45	-3.25/-2.04	-3.58/-1.9	-1.74/-2.18	-1.77/-0.82
Θ (135°)	-0.83/-3.75	-4.51/-3.99	-4.09/-2.36	-3.09/-9.13	-8.66/-6.89	-9.29/-5.41	-2.82/-3.4	-3.89/-4.42	-3.79/-3.25	-2.86/-2.06	-1.54/-0.53	-2.1/-1.66	-1.42/-0.61	0.4/-0.65	-3.06/-1.85	-1.95/-5.42	-7.2/-7.3	-4.8/-3.7	-2.58/-2.64	-1.59/-3.46	-5.37/-5.68	-5.42/-3.8	-2.38/-2.47	



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Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

Θ(22.5°)	-13.52/-11.14	-9.28/-9.74	-12.34/-9.58	-6.19/-4.45	-4.64/-5.2	-3.87/-2.62	-2.56/-4.15	-5.18/-4.35	-3.01/-2.86	-4.19/-6.8	-9.67/-11.8	-14/-14.72	-14.35/-13.42	-10.5/-7.9	-6.69/-6.33	-4.97/-3.73	-3.92/-4.98	-3.97/-2.38	-1.99/-2.57	-2.59/-2.57	-2.95/-4.57	-7.57/-10.14	-11.47/-13.95	-18.8/-17.66
Θ(30°)	-14.83/-15.74	-16.43/-19.71	-18.3/-18.88	-12.5/-6.06	-3.39/-3.85	-4.18/-2.94	-2.6/-3.34	-5.05/-4.65	-3.91/-4.73	-9.57/-18.74	-17.27/-19.62	-19.16/-18.52	-19.44/-14.73	-11.21/-9.91	-8.07/-6.3	-5.43/-4.73	-3.56/-3.19	-2.47/-1.96	-1.89/-1.49	-1.56/-2.57	-4.06/-7.2	-10.36/-9.56	-9.62/-10.43	-11.78/-13.53
Θ(37.5°)	-18.76/-19.15	-17.71/-18.48	-14.89/-9.02	-6.97/-6.05	-6.6/-4.75	-6.03/-6.89	-4.6/-3.91	-5.69/-6.84	-5.7/-8.82	-18.93/-16.75	-13.49/-18.35	-18.41/-18.38	-17.63/-17.27	-15.09/-16.1	-10.66/-14.77	-9.4/-8.19	-6.38/-4.8	-2.91/-4.2	-6.43/-16	-3.07/-4.66	-5.2/-7.65	-8.86/-8.44	-9.16/-11.8	-17.66/-18.72
Θ(45°)	-18.44/-18.77	-10.03/-11.34	-15.99/-11.84	-9.24/-9.17	-11.4/-6.79	-4.71/-5.53	-5.06/-5.31	-7.18/-7.5	-8.78/-15.28	-18.18/-14.09	-14.3/-19	-18.03/-18.36	-18.65/-17.41	-16.21/-11.23	-9.63/-13.82	-10.97/-9.28	-7.16/-8.48	-3.78/-2.85	-3.72/-3.98	-8.72/-11.71	-8.42/-11.8	-11.06/-11.02	-10.23/-9.79	-7.94/-12.3
Θ(52.5°)	-15.75/-15.95	-9.15/-12.29	-17.35/-13.13	-12.46/-10.82	-7.91/-6.35	-5.44/-5.22	-5.05/-7.69	-9.86/-11.6	-19.13/-18.55	-15.32/-15.14	-14.85/-13.37	-17.54/-18.21	-17.75/-17.76	-15.8/-11.34	-11.81/-11.76	-6.88/-6.74	-6.04/-4.4	-3.28/-3.04	-5.83/-7.01	-7.28/-8.27	-9.84/-12.39	-10.59/-17.99	-11.72/-15.97	-6.31/-7.6
Θ(60°)	-15.81/-12.03	-9.87/-17.56	-12.94/-9.23	-9.11/-12.05	-7.61/-4.9	-4.49/-5.9	-10.35/-14.1	-15.63/-17.32	-18.26/-19.78	-18.29/-17.52	-14.31/-13.63	-15.3/-15.22	-19.15/-17.86	-14.96/-10.78	-12.65/-12.98	-9.66/-9.29	-6.03/-4.26	-7.13/-6.71	-5.53/-3.89	-5.86/-6.99	-11.81/-11.17	-7.6/-15.63	-12.04/-16.04	-10.86/-10.85
Θ(67.5°)	-17.28/-13.62	-17.51/-13.37	-17.46/-8.07	-8.77/-9.22	-6.95/-5.02	-5.85/-7.16	-8.29/-19.26	-18.38/-17.77	-15.65/-15.13	-14.34/-16.26	-10.91/-13.03	-15.24/-15.43	-18.91/-18.04	-18.47/-15.14	-10.49/-10.36	-9.16/-8.72	-8.66/-6.11	-7.95/-3.44	-2.77/-3.69	-13.43/-13.23	-13.97/-14.94	-17.98/-17.91	-15.64/-18.38	
Θ(75°)	-18.96/-19.1	-19.14/-16.65	-12.1/-12.65	-14.24/-9.61	-7.84/-6.74	-6.94/-9.76	-12.72/-18.27	-16.52/-15.99	-11.69/-11.83	-9.31/-10.36	-8.59/-11.31	-15.33/-16.12	-19.28/-18.96	-18.73/-14.27	-14.47/-16.91	-13.6/-15.03	-13.35/-14.06	-18.83/-10.56	-8.54/-9.3	-3.64/-4.45	-11.86/-17.63	-18.95/-12.66	-18.86/-15.49	-16.67/-17.44
Θ(82.5°)	-16.4/-18.01	-11.24/-13.02	-11.8/-18.01	-18.3/-10.25	-6.65/-9.73	-7.68/-15.79	-16.44/-16.52	-18.75/-19.46	-10.96/-10.24	-7.69/-9.25	-8.21/-10.63	-11.67/-15.65	-16.22/-14.48	-19.14/-13.07	-14.62/-14.81	-9.79/-10.9	-12.19/-13.08	-18.18/-18.53	-16.07/-8.09	-4.2/-5.69	-10.28/-14.45	-13.5/-17.71	-18.26/-14.25	-18.38/-14.11
Θ(90°)	-18.54/-18.54	-12.63/-18.29	-18.73/-17.93	-18.33/-18.86	-10.01/-11.23	-15.81/-18.98	-19.45/-10.8	-12.52/-13.34	-8.94/-9.58	-7.73/-9.54	-8.39/-11.63	-10.66/-14.54	-18.27/-18.73	-19.24/-10.52	-10.04/-15.63	-9.61/-8.07	-7.64/-9.99	-16.48/-19.08	-17.08/-17.46	-6.21/-4.12	-9.81/-16.47	-11.87/-14.46	-16.46/-12.44	-18.85/-12.45
Θ(97.5°)	-17.69/-18.3	-15.25/-19.6	-11.57/-17.84	-18.17/-18.9	-7.85/-13.53	-13.28/-13.79	-12.57/-11.98	-7.18/-4.67	-7.04/-9.51	-7.42/-10.42	-11.3/-14.48	-19.21/-19.17	-18.18/-8.63	-10.93/-9.96	-5.71/-6.08	-7.72/-10.53	-8.25/-12.1	-18.64/-17.9	-12.34/-6.13	-7.37/-14.5	-11.06/-13.42	-17.17/-17.41	-18.21/-13.72	
Θ(105°)	-18.89/-18.31	-18.54/-14.89	-14.45/-13.08	-9.92/-11.8	-9.78/-17.25	-16.59/-19.28	-18.48/-11.97	-11.79/-10.23	-6.32/-5.12	-6.62/-9.44	-8.36/-11.51	-18.81/-18.23	-17.99/-10.03	-9.91/-7.41	-4.68/-4.53	-5.53/-9.9	-10.69/-7.79	-11.99/-17.49	-13.42/-18.91	-8.46/-8	-10.11/-17.48	-16.9/-19.12	-17.04/-17.94	
Θ(112.5°)	-17.94/-18.45	-16.05/-18.02	-16.84/-7.5	-12.44/-14.54	-8.74/-17.74	-19/-19.21	-18.48/-13.2	-15.73/-8.97	-6.17/-4.31	-5.03/-6.46	-6.74/-13.04	-18.03/-18.7	-18.75/-18.78	-16.95/-9.77	-13.54/-5.42	-4.07/-3.92	-6.52/-5.88	-12.24/-7	-9.31/-16.93	-15.3/-13.16	-10.23/-8.77	-4.14/-13.9	-15.91/-12.7	-14.23/-18.89
Θ(120°)	-16.24/-12.37	-18.36/-18.91	-16.51/-8.76	-10.58/-14.62	-13.07/-18.75	-13.69/-13.57	-14.77/-10.21	-9.98/-7.37	-7.18/-4.67	-5.11/-7.21	-7.93/-12.59	-17.37/-18.24	-18.71/-19.25	-11.87/-4.77	-4.17/-4.63	-8.39/-6.16	-6.52/-8.43	-9.18/-11.8	-14.61/-9.26	-9.81/-11.7	-4.31/-14.75	-18.68/-12.82	-12.94/-18.21	
Θ(127.5°)	-15.52/-18.83	-11.18/-18.24	-14.42/-17.59	-14.12/-12.85	-18.34/-13.11	-13.42/-10.14	-11.88/-7.97	-8.98/-9.14	-9.91/-6.91	-5.55/-5.12	-6.09/-6.28	-8.72/-13.39	-15.85/-15.59	-8.65/-11.36	-9.46/-4.82	-2.46/-3.22	-5.13/-9.5	-6.67/-6.79	-11.99/-9.01	-8.47/-9.77	-15.4/-16.51	-9.91/-15.41	-17.29/-14.67	-13.71/-17.5
Θ(135°)	-11.89/-15.8	-11.85/-18.15	-8.52/-14.61	-12.73/-17.48	-11.76/-14.69	-14.98/-13.63	-8.55/-8.16	-10.2/-9.99	-14.14/-9.41	-5.76/-4.13	-5.87/-9.15	-12.39/-11.1	-12.17/-18.18	-10.51/-10.97	-10.28/-5.97	-5.37/-4.15	-7.16/-12.39	-12.95/-6.1	-9.3/-5.15	-6.21/-4.45	-13.56/-14.93	-11.38/-9.73	-16.39/-16.33	-10.95/-11.54
Θ(142.5°)	-12.24/-15.55	-12.42/-15.12	-18.88/-16.72	-13.75/-19.59	-12.88/-17.22	-12.91/-14.44	-13.2/-9.22	-9.67/-6.24	-7.98/-9.44	-9.91/-7.52	-6.45/-9.41	-17.51/-18.93	-18.37/-17.22	-19.22/-12.91	-9.04/-5.9	-3.62/-5.73	-10.64/-12.12	-8.36/-6.28	-8.99/-6.69	-7.38/-4.71	-10.28/-16.25	-18.62/-17.91	-14.61/-12.92	-11.59/-14.94
Θ(150°)	-18.51/-18.45	-17.31/-17.35	-17.64/-18.29	-17.45/-17.94	-11.78/-10.47	-18.53/-15.85	-9.66/-6.83	-6.43/-5.6	-7.16/-9.61	-10.65/-10.22	-9.68/-12.17	-18.21/-17.4	-17.41/-19.39	-12.98/-9.95	-9.12/-8.08	-7.77/-10.63	-15.08/-13.35	-15.58/-9.77	-9.98/-17.52	-17.75/-19.83	-18.62/-16.15	-18.62/-17.93	-18.38/-18.75	
Θ(157.5°)	-17.24/-18.42	-18.48/-19.01	-18.26/-17.29	-18.82/-15.66	-10.32/-12.2	-18.53/-10.4	-8.43/-10.56	-10.56/-7.12	-7.31/-9.61	-13.75/-18.9	-17.56/-19.09	-14.73/-14	-16.73/-17.83	-14.88/-11.91	-14.11/-17.85	-16.78/-14.2	-10.85/-8.34	-8.22/-8.8	-11.23/-10.69	-9/-13.5	-18.49/-18.77	-19.39/-16.98	-14.2/-13.49	-15.52/-17.62
Θ(165°)	-18.03/-18.31	-18.55/-17.85	-18.85/-18.72	-19.06/-18.51	-14.54/-13.23	-10.51/-8.14	-9.31/-12.33	-11.72/-8.4	-7.32/-8.58	-10.97/-14.55	-16.75/-15.74	-14.98/-14.71	-14.64/-14.84	-16.09/-17.44	-15.12/-13.3	-13.16/-10.27	-7.05/-5.53	-6.71/-8.79	-13.17/-15.57	-18.66/-18.2	-18.99/-14.19	-12.83/-13.95	-15.23/-17.73	-17.34/-17.96
Θ(172.5°)	-15.95/-18.46	-19.4/-18.02	-17.95/-17.59	-18.56/-17.35	-13.73/-12.55	-12.1/-10.34	-10.12/-34	-15.07/-17.86	-15.7/-15.21	-17.76/-17.63	-18.76/-16.12	-13.43/-11.78	-10.53/-9.45	-9.42/-10.38	-11.47/-12.56	-13.41/-11.09	-9.4/-9.31	-11.67/-13.09	-15.01/-14.89	-15/-15.43	-16.69/-17.67	-17.62/-18.91	-17.86/-18.91	-18.28/-16.7
Θ(180°)	-14.62/-15.13	-14.04/-13.59	-11.94/-10.03	-9.66/-9.35	-8.58/-8.34	-8.4/-8.12	-8.03/-8.7	-9.63/-10.44	-11.4/-12.38	-13.04/-13.63	-14.39/-17.31	-18.23/-18.27	-17.29/-17.47	-17.48/-19.44	-15.78/-13.46	-10.96/-9.82	-11.62/-11.48	-11.42/-10.68	-10.55/-11.77	-13.12/-12.9	-12.22/-12.33	-14.16/-18.14	-18.26/-17.3	-17.28/-15.2
Freq(Hz)	5.3GPol	ThetaAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-5.74/-6.61	-6.38/-6.88	-6.38/-6.88	-8.1/-9	-10.14/-11.59	-14.63/-18.85	-19.29/-18.76	-17.33/-16.22	-13.83/-12.24	-9.62/-7.96	-7.42/-6.21	-6.34/-5.94	-5.15/-5.11	-4.97/-4.94	-5.4/-6.55	-7.34/-8.2	-9.51/-11.16	-13.13/-16.37	-19.35/-17.47	-17.92/-14.63	-12.29/-10.24	-9.1/-7.29	-7.61/-7.29	-6.46/-5.42
Θ(7.5°)	-2.68/-2.96	-2.95/-3.01	-3.25/-3.93	-4.77/-6.05	-7.01/-8.32	-11.03/-13.87	-15.45/-19.29	-18.83/-18.31	-15.31/-13.86	-12.08/-10.45	-9.97/-8.77	-7.9/-8.6	-8.56/-8.24	-8.53/-8.46	-10.55/-10.37	-12.25/-11.5	-11.61/-11.79	-12.78/-14.31	-16.89/-17.75	-18.88/-18.59	-16.89/-15.19	-12.19/-9.42	-7.57/-6.29	-5.09/-3.44
Θ(15°)	-4.8/-5.18	-6.1/-4.97	-4.59/-5.5	-5.69/-5.86	-5.75/-5.66	-5.84/-7.11	-8.15/-12.75	-16.43/-15.25	-12.23/-9.71	-7.11/-5.91	-6.01/-6.26	-6.46/-7.48	-7.91/-7.47	-7.33/-7.24	-7.52/-8.11	-9.99/-13.66	-18.64/-18.3	-17.48/-14.69	-13.89/-14.49	-16.05/-16.28	-17.63/-15.18	-11.51/-10.4	-10.76/-9.85	-7.26/-5.78
Θ(22.5°)	-8/-7.4	-7.53/-6.85	-5.25/-4.73	-4.49/-5.65	-6.67/-9.3	-8.66/-9.76	-13.36/-17.49	-17.3/-16.06	-14.05/-11.4	-8.47/-7	-5.8/-5.29	-4.62/-4.6	-5.45/-5.83	-5.55/-5.44	-5.04/-4.92	-6.2/-5.87	-11.58/-14.21	-13.73/-10.3	-8.62/-8.66	-14.47/-13.14	-7.6/-5.11	-5.41/-7.4	-9.91/-11.98	-10.93/-9.11
Θ(30°)	-6.16/-4.46	-4.22/-5.28	-4.21/-4.93	-5.8/-5.57	-8.71/-10.99	-15.01/-17.89	-15.46/-15.45	-16.27/-18.12	-18.43/-16.5	-10.86/-6.29	-3.84/-2.42	-1.88/-2.33	-2.26/-1.84	-1.35/-0.99	-1.19/-1.37	-2.01/-3.17	-6.15/-7.65	-7.62/-6.87	-6.54/-6.02	-5.05/-3.78	-2.36/-1.61	-3.31/-5.07	-4.83/-6.25	-11.63/-10.95
Θ(37.5°)	-17.03/-9.2	-4.15/-3.62	-3.57/-5.25	-10.25/-14.81	-11.9/-7.5	-9.91/-18.14	-12.41/-8.02	-6.83/-7.62	-6.91/-4.79	-1.86/-0.14	0.21/-0.31	-0.93/-1.52	-1.55/-0.24	1.12/-1.82	2.07/-2.25	2.21/-1.8	-0.39/-3.25	-3.85/-2.88	-2.44/-1.61	-1.93/-3.14	-1.97/-0.18	-1.38/-2.09	-2.62/-3.17	-5.29/-8.81
Θ(45°)	-4.39/-13.74	-10.7/-5.1	-3.36/-4	-9.37/-15.18	-17.76/-5.85	-3.82/-7.29	-16.62/-9.72	-5.17/-19.96	-6.02/-4.09	-0.32/-1.27	0.8/-0.2	0.07/-1.2	2.36/-3.52	4.36/-1.2	3.19/-3.3	3.31/-2.55	1.5/-1.28	-4.62/-3.92	-2.41/-1.7	-1.99/-8.45	-3.48/-3.09	-1.92/-3	-3.15/-1.69	
Θ(52.5°)	-2.12/-5.45	-5.66/-3.61	-2.94/-3.22	-10.14/-10.97	-7.27/-4.98	-4.02/-6.22	-10.26/-13.6	-6.98/-4.66	-6.78/-1.77	1.46/-2.64	2.37/-2.2	2.57/-1.58	1.82/-2.5	4.4/-3.36	3.29/-3.7	0.31/-1.24	-4.8/-5.01	-2.47/-0.73	0/-1.45	-0.81/-1.12	-1.48/-0.62	-0.42/-2.61	-2.96/-0.73	
Θ(60°)	-1.45/-0.78	-0.6/-1.08	-3.42/-2.26	-7.59/-10.14	-3.46/-4.57	-6.06/-10.45	-10.85/-12.89	-15.66/-6.07	-6.98/-1.3	1.41/-3.13	4.14/-4.5	4.77/-3.06	-0.46/-1.32	3.96/-8.1	5.06/-3.47	1.64/-1.03	-1.35/-0.34	-5.94/-5.6	-1.09/-0.08	1.17/-0.46	-0.77/-2.44	-3.91/-3.12	-0.08/-1.56	-3.94/-2.78
Θ(67.5°)	-1.61/-0.72	-0.68/-0.72	-3.03/-1.53	-7.83/-4.22	-3.11/-3.47	-5.92/-11.65	-8.75/-8.45	-18.09/-17.4	-7.12/-0.33	1.55/-3.7	5.24/-6.3	5.13/-9.3	1.26/-1.26	4.315/-31	6.295/-15	2.68/-0.								



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

Θ(60°)	-19.07/-14.63	-19/-12.43	-18.66/-14.33	-18.51/-16.17	-13.04/-8.74	-9.13/-11.38	-14.73/-16.72	-18.07/-17.11	-16.83/-18.96	-19.15/-19.25	-18.14/-13.78	-18.26/-19.47	-18.09/-18.57	-16.97/-18.68	-17.06/-19.35	-12.44/-8.37	-9.29/-5.74	-5.43/-7.11	-6.26/-8.05	-8.46/-14.44	-17.71/-18	-19.11/-15.08	-17.49/-15.92	-18.76/-17.36
Θ(67.5°)	-13.98/-18.76	-18.76/-18.45	-12.96/-13.43	-13.74/-14.14	-10.86/-8.74	-7.98/-11.88	-19.05/-18.17	-17.69/-18.97	-18.31/-16.01	-17.27/-16.28	-14.5/-11.78	-13.24/-19.13	-18.33/-17.55	-18.51/-19.39	-17.22/-18.9	-13.56/-15.08	-18.59/-9.93	-10.15/-9.46	-5.25/-5.87	-8.53/-13.46	-17.59/-17.79	-18.31/-18.37	-17.91/-17.78	-19.03/-18.92
Θ(75°)	-11.38/-18.38	-17.31/-13.8	-12.36/-12.34	-14.9/-12.62	-9.56/-9.88	-7.66/-11.39	-18.12/-19.39	-18.63/-15.29	-17.94/-15.78	-16.05/-13.51	-13.11/-11.75	-13.88/-14	-18.12/-18.31	-16.37/-15.3	-18.27/-18.57	-14.68/-16.58	-16.01/-17.17	-17.38/-12.76	-8.53/-5.4	-5.22/-8.56	-16.71/-18.21	-18.74/-18.72	-18.74/-12.32	-18.55/-16.15
Θ(82.5°)	-14.86/-18.32	-18.53/-9.73	-16.12/-13.53	-16.53/-13.97	-12.25/-8	-8.1/-15.19	-18.52/-18.38	-13/-12.22	-12.77/-12.24	-14.67/-13.3	-11.76/-10.45	-18.77/-19.43	-18.28/-18.19	-19.05/-15.45	-15.66/-13.23	-10.91/-15.29	-9.94/-12.6	-18.56/-19.24	-11.32/-6.45	-5.78/-6.51	-17.1/-17.81	-15.42/-19.09	-18.12/-11.75	-18.51/-17.01
Θ(90°)	-16.37/-18.71	-18.17/-12	-19.01/-14.27	-16.62/-16.07	-10.67/-8.41	-9.98/-16.57	-19.04/-14.36	-13.21/-13.68	-12.75/-9.9	-13.36/-10.09	-18.2/-19.27	-17.32/-18.68	-18.35/-14.74	-18.06/-12.65	-9.22/-10.15	-7.06/-13.01	-11.57/-14.35	-19.3/-9.8	-8.43/-4.74	-12.18/-17.25	-18.28/-14.05	-17.99/-14.59	-18.27/-16.97	
Θ(97.5°)	-14.24/-14.94	-16.9/-18.72	-17.65/-17.34	-17.52/-13.46	-11.66/-9.83	-18.28/-18.53	-19.04/-11.91	-9.15/-9.88	-11.99/-12.56	-10.78/-9.59	-18.28/-18.16	-17.25/-18.77	-16.65/-15.1	-12.78/-11.73	-8.58/-8.57	-6.11/-8.49	-9.37/-14.19	-15.41/-18.33	-11.14/-7.53	-10.72/-16.68	-13.3/-13.3	-18.95/-18.14	-17.09/-17.74	
Θ(105°)	-18.19/-18.4	-17.82/-15.48	-17/-17.7	-13.15/-13.48	-10.79/-12.47	-17.98/-17.99	-13.69/-8.97	-8.73/-10.22	-13.67/-13.97	-8.92/-7.68	-14.22/-11.29	-15.37/-17.68	-17.92/-17.98	-18.57/-14.34	-13.74/-8.84	-8.69/-10.04	-7.03/-9.85	-11.74/-10.62	-10.21/-18.77	-15.34/-10.49	-18.55/-13.33	-10.69/-18.06	-18.16/-18.56	-18.6/-15.15
Θ(112.5°)	-13.92/-16.25	-18.14/-14.92	-17.8/-14	-11.12/-9.85	-10.34/-14.25	-19.67/-11.74	-15.01/-9.05	-11.17/-16.59	-11.44/-9.72	-8.07/-8.28	-11.47/-13.22	-19.06/-15.34	-18.78/-18.21	-14.17/-8.3	-10.33/-15.02	-5.27/-7.6	-7.03/-11.75	-12.96/-13.9	-9.25/-18.87	-16.85/-11.27	-13.76/-7.47	-9.93/-13.89	-17.14/-18.02	-18.51/-18.64
Θ(120°)	-16.2/-16.01	-18.87/-18.66	-18.53/-7.12	-17.08/-11.24	-14.4/-18.85	-17.28/-18.29	-17.34/-15.14	-19.32/-18.25	-11.68/-9.42	-6.71/-5.57	-7.57/-11.06	-15.28/-16.28	-18.16/-17.75	-14.54/-10.54	-7.06/-8.87	-4.1/-4.27	-6.45/-11.4	-10.44/-9.42	-12.93/-17.57	-11.73/-14.6	-12.74/-6.05	-10.79/-14.75	-13.38/-18.37	-15.77/-18.89
Θ(127.5°)	-12.82/-16.08	-17.88/-18.57	-10.59/-14.29	-19/-17.55	-15.77/-19.08	-18.88/-12.22	-12.51/-13.4	-13.21/-11.19	-8.93/-9.32	-10.3/-7.84	-6.87/-10.35	-19.09/-15.09	-18.29/-15.2	-12.79/-7.44	-7.82/-9.72	-5.81/-4.88	-6.28/-7.52	-12.42/-9.69	-10.9/-12.7	-10.78/-14.57	-17.39/-12.45	-14.94/-11.31	-18.27/-18.93	-18.75/-16.55
Θ(135°)	-10.66/-18.58	-17.16/-15.41	-12.45/-15.1	-17.95/-17.39	-12.57/-15.57	-17.2/-12.17	-14.69/-11.12	-9.97/-10.45	-8.51/-8.21	-8.62/-7.23	-10.38/-18.53	-14.73/-13.26	-18.42/-17.78	-13.11/-8.96	-8.93/-8.09	-6.29/-6.5	-8.39/-8.1	-14.29/-14.57	-10.69/-6.95	-9.27/-7.69	-14.01/-17.82	-16.15/-10.64	-19.59/-18.88	-12.97/-18.86
Θ(142.5°)	-11.67/-17.14	-9.54/-17.4	-17.9/-13.78	-14.44/-11.63	-14/-14.37	-12.76/-18.47	-11.42/-13.95	-11.48/-11.69	-8.78/-10.2	-11.95/-9.89	-8.97/-12.75	-14.72/-17.28	-14.44/-19.65	-16.86/-11.54	-13.92/-10.12	-8.52/-8.64	-13.03/-14.94	-15.84/-12.95	-18.42/-8.03	-9.93/-11.52	-17.32/-18.62	-18.9/-18.34	-17.94/-17.85	-13.57/-18.97
Θ(150°)	-12.93/-18.55	-14.14/-11.97	-12.51/-12.23	-12.68/-14.84	-15.56/-16.23	-18.54/-17.58	-11.68/-12.73	-7.97/-7.02	-8.87/-9.67	-14.85/-17.41	-15.65/-17.47	-18.12/-19.61	-18.07/-19.1	-16.86/-13.46	-12.12/-13.2	-12.78/-8.81	-8.79/-10.03	-9.55/-8.85	-10.39/-13.93	-14.14/-13.19	-15.54/-17.77	-15.51/-15.76	-18.29/-17.76	-16.71/-13.72
Θ(157.5°)	-15.72/-17.87	-16.65/-16.32	-19.5/-18.81	-15.41/-11.77	-12.55/-16.04	-12.2/-10.98	-11.56/-10.69	-8.57/-7.96	-9.34/-9.62	-9.48/-11.49	-15.7/-18.35	-17.87/-14.43	-13.78/-15.77	-18.75/-18.77	-14.06/-10.71	-9.78/-12.16	-13.48/-9.52	-7.82/-9.49	-13.67/-11.67	-14.53/-16.12	-16.05/-18.18	-18.21/-18.36	-19.12/-12.27	-19.06/-13.99
Θ(165°)	-17.6/-14.94	-18.57/-19.2	-17.96/-15.95	-16.27/-11.75	-19.77/-16.84	-13.95/-14.39	-11.55/-9.15	-8.63/-9.39	-10.46/-12.27	-15.4/-19.08	-18.3/-18.39	-18.61/-15.56	-18.72/-14.59	-14.26/-13.19	-12.33/-12.47	-12.89/-13.25	-12.31/-11.41	-11.27/-11.88	-13.54/-18.25	-18.84/-18.48	-18.19/-18.74	-18.83/-16.53	-13.77/-14.31	
Θ(172.5°)	-19.26/-17.68	-18.27/-15.89	-13.87/-12.34	-12.33/-10.87	-9.62/-8.91	-9.01/-9.99	-10.26/-9.23	-8.7/-9.17	-10.7/-11.39	-10.9/-11.12	-12.57/-14.56	-15.63/-16.58	-18.25/-18.25	-17.96/-17.04	-14.15/-12.48	-11.48/-12.85	-15.32/-16.53	-17.33/-17.33	-13.03/-11.1	-10.9/-11.6	-12.25/-14.26	-16.62/-17.94	-17.23/-16.29	-15.15/-16.21
Θ(180°)	-17.17/-19.34	-19.22/-19.2	-15.34/-14.37	-14.17/-14.44	-13.31/-12.59	-12.04/-11.74	-11.99/-11.42	-10.72/-11.13	-11.45/-11.44	-11.47/-13.25	-13.72/-13.67	-15.5/-18.49	-17.93/-17.54	-18.81/-17.74	-18.96/-17.81	-18.49/-18.4	-17.78/-17.92	-14.69/-12.52	-11.84/-12.74	-13.41/-13.36	-13.83/-13.83	-13.21/-12.6	-10.98/-11.75	-17.07/-17.11
Freq(Hz)	5.785GPol	ThetaAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-8.27/-7.68	-8.45/-9.54	-10.04/-10.65	-10.97/-11.82	-13.33/-16.61	-18.23/-18.88	-18.89/-18.36	-18.72/-18.21	-17.03/-15.12	-13.5/-11.81	-11.52/-11.33	-9.53/-9.8	-8.86/-9.05	-9.3/-8.8	-9.24/-9.34	-10.21/-10.77	-11.06/-12	-13.83/-15.32	-15.54/-16.62	-15.24/-13.08	-12.07/-11.31	-9.84/-9.22	-8.59/-8.35	-8.62/-8.13
Θ(7.5°)	-6.24/-6.37	-6.59/-6.94	-6.5/-6.86	-7.42/-7.33	-7.58/-9	-8.99/-10.95	-11.42/-13.27	-12.77/-12.18	-11.19/-10.1	-11.48/-11	-8.93/-8.49	-8.53/-8.67	-10.37/-11.23	-11.1/-11.23	-12.76/-16.14	-18.52/-17.95	-16.98/-18.32	-17.12/-17.5	-15.44/-14.76	-12.62/-11.1	-16.29/-9.44	-8.32/-6.89	-5.61/-5.82	
Θ(15°)	-6.24/-5.55	-5.55/-5	-4.99/-5.77	-6.44/-7.33	-6.96/-8.06	-10.12/-11.94	-11.87/-11.78	-11.63/-11.67	-11.43/-10.5	-9.38/-8.23	-7.53/-7.41	-7.52/-8.14	-8.92/-9.21	-10.22/-12.28	-13.99/-14.19	-15.07/-17.1	-18.81/-18.68	-17.7/-16.87	-15.12/-13.47	-12.99/-11.51	-10.33/-11.06	-11.51/-11.66	-12.4/-12.76	-11.06/-8.45
Θ(22.5°)	-6.95/-7.2	-8.88/-9.64	-8.26/-9.33	-10.8/-13.66	-9.17/-7.25	-8.53/-10	-11.17/-11.57	-13.57/-15.53	-14.24/-12.18	-11.78/-11.65	-10.76/-9.6	-7.67/-6.1	-5.54/-7.5	-7.07/-9.13	-11.45/-13.15	-12.84/-10.52	-8.67/-8.5	-8.56/-8.23	-8.62/-11.53	-17.31/-18.86	-18.81/-18.98	-16.56/-18.02	-10.42/-16.4	
Θ(30°)	-13.13/-9.59	-7.41/-6.84	-11.11/-11.62	-7.8/-7.87	-6.95/-6.06	-5.05/-5.33	-6.28/-6.64	-7.49/-8.49	-13.54/-12.6	-6.85/-6.64	-5.71/-4.16	-3.23/-2.66	-2.44/-2.45	-1.4/-0.84	-1.62/-3.71	-5.45/-6.06	-5.14/-3.8	-4.94/-5.73	-3.71/-2.2	-2.15/-2.51	-2.87/-3.79	-5.61/-6.93	-17.04/-14.95	-17.53/-16.63
Θ(37.5°)	-17.47/-7.47	-3.45/-3.61	-5.4/-15.39	-6.87/-4.78	-3.96/-3.46	-4.42/-6.14	-4.35/-2.97	-3.61/-4.71	-3.64/-2.61	-2.73/-2.61	-1.87/-1.66	-1.34/-0.74	0.16/-1.1	1.91/-7	0.79/-0.81	-1.93/-1.86	-0.57/-0.66	-3.53/-3.5	-2.73/-2.8	-1.38/-1.13	-0.62/-1.04	-3.08/-6.18	-9.41/-9.81	-12.36/-17.55
Θ(45°)	-15.61/-7.21	-4.17/-5.92	-8.69/-10.92	-4.25/-2.59	-3.46/-2.48	-2.08/-4.82	-4.4/-3.14	-4.27/-3.58	-0.86/-0.09	-0.16/-0.28	0.13/-0.6	1.21/-0.4	-0.31/-0.1	1.82/3	3.09/-1.09	0.44/-1.54	-0.55/-0.19	0.66/-1.03	-0.04/-0.07	4.07/-1.51	-0.71/-11	-0.03/-3.9	-9.44/-11.25	-11.3/-7.1
Θ(52.5°)	-18.01/-10.35	-3.33/-2.26	-5.53/-10.48	-4.78/-1.92	-2.31/-2.74	-4.64/-7.5	-7.37/-9.85	-6.24/-3.62	-1.32/-0.46	2.23/-6.5	2.87/5.5	1.11/-1.7	0.71/-0.55	2.99/-4.74	5.42/-8.58	1.88/-1.54	0.04/-0.75	-0.45/-0.61	-0.02/-1.11	1.67/-1.56	0.73/-0.42	-0.33/-5.23	-10.78/-12.12	-13.94/-13.96
Θ(60°)	-14.1/-10.44	-1.92/-1.24	-2.61/-6.73	-4.77/-0.87	-2.91/-6.26	-12.06/-15.4	-15.41/-16.46	-7.05/-5.44	-4.85/-0.62	2.88/3.05	3.39/-3.87	2.09/-1.57	1.98/-1.25	3.05/-4.96	5.435.4	3.26/3.05	0.21/-1.12	-0.41/-2.14	-0.47/-1.12	1.34/-1.87	0.42/-0.66	-1.49/-7.29	-10.81/-13	-13.3/-12.6
Θ(67.5°)	-13.29/-6.57	-1.65/-2.28	-2.41/-7.41	-2.93/-2.04	-4.85/-7.78	-17.6/-18.96	-16.21/-18.1	-9.78/-9.64	-8.48/-1.87	2.38/2.24	3.84/-3.7	2.11/-2.55	3.24/3.17	3.65/-21	4.794/-25	3.84/2.91	-1.83/-0.33	0.3/-2.67	-2.93/-1.31	-0.53/-1.7	-1.03/-2.31	-1.87/-5.97	-8.74/-10.56	-10.22/-13.7
Θ(75°)	-16.67/-10.07	-4.49/-3.05	-2.59/-10.17	-3.2/-1.62	-9.14/-8.88	-18.93/-17.47	-13.15/-12.55	-9.21/-9.47	-9.62/-4.89	0.36/-1.33	3.99/-9.49	2.59/-2.84	3.85/-6.7	4.31/-9.4	4.37/-24	3.02/-1.85	-1.47/-1.16	0.52/-2.47	-3.81/-4.49	-2.37/-0.35	-1.9/-3.32	-2.54/-5.37	-9.35/-12.82	-9.91/-18.07
Θ(82.5°)	-12.17/-7.06	-6.06/-4.85	-3.52/-12.41	-5.31/-3.88	-13.19/-9.27	-17.61/-19.39	-10.18/-8.67	-8.48/-8.63	-6.64/-4.54	-0.46/-1.07	3.96/-6.66	3.11/-2.82	3.99/-3.41	4.16/-4.58	4.24/-2.07	1.07/-0.61	-0.29/-2.36	-3.59/-6.01	-2.68/-0.22	-1.27/-4.03	-4.66/-6.62	-8.96/-17.85	-18.01/-12.63	
Θ(90°)	-11.22/-7.12	-6.28/-6.83	-4.94/-10.6	-6.02/-6.19	-14.01/-11.99	-16.02/-11.41	-12.55/-6.56	-9.86/-6.56	-6.65/-5.23	-1.15/-0.23	2.55/-2.95	2.61/-0.6	3.02/-2.26	2.57/-0.38	3.28/-1.68	0.47/-2.22	-3.97/-0.5	-0.51/-1.44	-3.92/-3.28	-9.99/-2.5	-2.03/-1.26	-5.38/-5.95	-5.82/-17.95	-15.22/-8.79
Θ(97.5°)	-14.52/-18.64	-9.68/-6.33	-5.37/-14.8	-7.28/-8.84	-13.38/-17.95	-16.4/-10.67	-10.48/-9.29	-12.1/-9.59	-11.1/-8.78	-3.6/-0.51	2.03/-2.48	1.97/-0.51	1.02/-1.68	0.87/-1.2	1.34/-1.17	-1.5/-2.35	-6.47/-1.91	-3.79/-2.87	-9.82/-19.28	-19.26/-4.04	-3.5/-0.67	-3.68/-10.64	-11.34/-19.12	-13.91/-11.18
Θ(105°)	-12.10/-15.62	-9.54/-14.57	-6.05/-12.68	-14.6/-9.87	-12.56/-19.37	-18.1/-14.36	-7.37/-7.21	-14.56/-12.2																



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

Θ (112.5°)	-14.24/-15.14	-10.29/-10.32	-6.03/-18.91	-15.19/-18.66	-11.23/-16.65	-19.09/-16.83	-15.04/-11.35	-8.05/-15.08	-12.43/-16.52	-17.35/-10.68	-8.94/-9.53	-8.48/-7.99	-9.02/-10.02	-13.5/-13.5	-18.9/-12.01	-17.59/-18.64	-16.31/-18.67	-16.87/-11.66	-14.74/-17.6	-17.84/-18.72	-12.27/-19.22	-10.88/-3.46	-7.25/-16.5	-16.31/-13.15
Θ (120°)	-10.58/-7.74	-13.03/-13.91	-9.15/-12.93	-13.46/-12.18	-10.17/-15.88	-18.2/-17.96	-14.01/-16.95	-13.18/-16	-15.67/-15.82	-18.97/-10.35	-15.55/-10.29	-8.65/-6.33	-9.18/-9.84	-10.01/-12.25	-15.72/-19.05	-18.31/-15.95	-18.77/-18.95	-10.01/-11.42	-18.95/-16.51	-12.05/-16.49	-17.58/-13.33	-11.81/-7.11	-12.56/-14.29	-16.65/-10.58
Θ (127.5°)	-8.59/-3.05	-14.82/-17.93	-12.69/-9.96	-18.36/-17.4	-8.75/-12.28	-17.38/-15.88	-17.88/-17.01	-18.02/-18.95	-15.63/-14.26	-10.74/-7.99	-11.28/-7.49	-7.64/-9.49	-7.01/-9.88	-9.21/-12.7	-17.51/-18.55	-16.56/-15.98	-18.67/-14.52	-18.49/-16.38	-10.18/-12.89	-16.63/-15.84	-12.27/-14.43	-18.34/-13.48	-11.34/-5.88	
Θ (135°)	-7.61/-4.55	-9.21/-10.01	-15.08/-9.35	-15.5/-9.28	-17.01/-15.44	-14.72/-14.64	-18.34/-14.73	-14.03/-15.3	-18.29/-9.62	-7.07/-7.56	-9.51/-7.7	-9.59/-13.31	-12.79/-10.88	-13.23/-10.63	-11.88/-18.81	-18.96/-18.33	-15.72/-9.9	-10.38/-18.46	-17.41/-12.59	-8.54/-18.34	-10.25/-12.29	-18.37/-17.38	-17.92/-13.83	-7.18/-8.57
Θ (142.5°)	-9.91/-10.22	-11.47/-13.31	-9.77/-15.04	-18.28/-19.2	-8.95/-14.94	-17.84/-15.18	-18.01/-17.27	-18.1/-13.64	-15.27/-16.69	-7.1/-10.69	-11.81/-13.93	-13.52/-14.79	-9.1/-8.37	-12.37/-18.62	-18.59/-15.33	-18.52/-19.01	-11.61/-5.59	-9.32/-18.85	-17.12/-14.42	-6.29/-4.99	-15.65/-11.71	-17.88/-15.08	-12.71/-15.65	-14.99/-11.2
Θ (150°)	-8.63/-14.45	-17.71/-17.74	-14.04/-14.73	-18.83/-18.36	-18.07/-15.61	-17.78/-18.79	-9.02/-7	-16.88/-6.99	-6.32/-6.79	-6.24/-6.77	-5.52/-9.88	-14.93/-12.39	-11.45/-16.79	-19.15/-15.45	-12.76/-11.93	-14.55/-11.41	-15.1/-17.71	-17.35/-18.64	-12.1/-13	-12.57/-11.9	-7.65/-11.26	-11.25/-13.1	-18.72/-11.75	
Θ (157.5°)	-17.98/-14.23	-9.43/-10.44	-17.24/-18.25	-16.44/-13.51	-11.95/-14.11	-18.47/-17.86	-11.32/-13.01	-10.96/-13.07	-18.05/-8.31	-7.01/-9.05	-12.28/-13.23	-10.05/-10.7	-15.52/-13.59	-9.51/-8.75	-12.42/-18.38	-11.17/-8.54	-10.19/-13.4	-15.11/-13.36	-14.6/-18.16	-13.78/-9.87	-9.61/-7.32	-8.63/-8.14	-8.93/-17.08	-18.75/-13.64
Θ (165°)	-18.54/-18.59	-18.27/-17.45	-18.21/-13.89	-17.15/-17.75	-17.68/-18.2	-11.99/-11.27	-18.01/-15.61	-17.23/-18.53	-19.16/-17.83	-13.77/-11.31	-11.76/-14.06	-18.84/-17.94	-15.77/-16.38	-15.61/-18.2	-18.58/-18.39	-15.62/-12.45	-14.03/-17.52	-14.24/-12.16	-10.04/-12.37	-18.13/-17.84	-10.34/-9.81	-9.13/-10.18	-12.29/-17.31	-14.32/-14.34
Θ (172.5°)	-9.39/-8.58	-8.74/-10.25	-10.84/-12.53	-18.02/-18.33	-18.56/-12.71	-8.15/-6.55	-6.63/-7.38	-7.54/-8.12	-9.56/-12.24	-15/-15.93	-18.87/-18.93	-17.89/-15.14	-15.93/-16.87	-15.53/-16.93	-18.57/-17.99	-16.86/-16.33	-18.23/-19.29	-17.49/-17.82	-15.99/-18.37	-18.59/-18.97	-17.76/-14.8	-13.35/-12.41	-11.71/-12.75	-12.77/-12.19
Θ (180°)	-10.84/-11.17	-11.61/-12.58	-13.29/-13.77	-15.77/-18.85	-17.8/-15.01	-14.07/-13.68	-11.09/-10.14	-9.88/-10.58	-12.19/-12.39	-11.42/-10.89	-10.06/-9.63	-9.33/-9.22	-9.47/-9.5	-10.34/-12.11	-13.78/-14.07	-14.18/-15.22	-13.63/-12.22	-11.01/-11.47	-13.94/-13.67	-12.59/-11.38	-10.89/-12.39	-15.95/-17.45	-19.05/-14.6	-11.45/-9.52
Freq(Hz)	5.2GPol	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°)	-9.23/-9.04	-9.09/-8.83	-8.66/-9.48	-10.71/-9.09	-10.05/-13.89	-12.36/-15.07	-18.49/-18.68	-19.01/-17.22	-14.82/-12.52	-11.06/-9.58	-8.86/-8.67	-8.04/-8.31	-7.63/-7.61	-8.68/-8.28	-8.68/-9.4	-9.12/-10.09	-10.59/-11.67	-14.78/-13.57	-16.47/-19.24	-17.8/-18.34	-17.91/-17.77	-15.51/-15	-13.07/-10.97	-11.02/-10.27
Θ (7.5°)	-9.47/-9.56	-10.16/-16.04	-10.08/-10.04	-10.82/-9.77	-9.95/-12.59	-11.76/-11.57	-13.91/-13.8	-15.84/-16.79	-16.68/-17.99	-17.71/-17.51	-18.03/-18.02	-18.35/-13.61	-11.4/-9.96	-9.97/-8.68	-6.98/-6.68	-6.96/-7.92	-9.56/-9.8	-13.9/-17.75	-17.95/-18.59	-14.11/-11.74	-9.67/-8.23	-7.41/-7.85	-8.31/-8.03	-9.19/-10.22
Θ (15°)	-18.48/-14.42	-12.17/-12.04	-12.95/-11.77	-10.77/-11.98	-13.6/-14.6	-15.73/-17.89	-18.1/-17.95	-18.21/-18.99	-17.21/-17.11	-18.1/-18.51	-15.24/-13.48	-10.45/-9.19	-9.81/-9.12	-9.91/-11.73	-10.27/-9.3	-8.48/-6.66	-6.77/-6.43	-7.74/-10.52	-10.18/-12.3	-10.4/-9.92	-9.97/-9.22	-9.88/-12	-14.8/-17.17	-18.18/-32
Θ (22.5°)	-15.96/-16.44	-16.37/-15.29	-18.65/-17.6	-17.49/-19.32	-17.69/-16.96	-17.14/-19.15	-19.08/-15.25	-14.15/-12.95	-11.47/-10.05	-9.59/-9.12	-8.43/-9.38	-10.25/-10.64	-11.29/-10.93	-12.9/-12.91	-10.9/-8.27	-7.78/-9.8	-9.89/-9.29	-10.79/-9.53	-6.99/-7.77	-9.61/-13.93	-16.08/-11.93	-10.46/-11.36	-13.46/-17.64	-17.14/-15.01
Θ (30°)	-4.53/-3.62	-3.69/-3.64	-9.9/-8.94	-12.01/-18.91	-18.62/-15	-10.75/-8.48	-10.48/-8.38	-7.15/-9.54	-9.71/-7.58	-5.43/-4.81	-4.68/-6.66	-13.15/-17.37	-18.65/-14.43	-8.85/-4.17	-3.79/-4.06	-10.94/-10.37	-10.12/-9.19	-6.82/-5.57	-6.83/-8.61	-9.53/-8.15	-8.76/-10.36	-12.39/-14.74	-7.53/-7.57	
Θ (37.5°)	-2.19/-0.9	-3.73/-1.52	-1.28/-0.68	-1.81/-4.4	-6.81/-6.44	-4.75/-4.59	-6.73/-5.58	-7.05/-8.37	-8.01/-7.55	-3.71/-4.05	-4.74/-8.34	-10.47/-10.73	-11.32/-11.77	-11.55/-12.1	-8/-3.94	-3.81/-7.87	-12.99/-11.82	-11.78/-10.19	-8.19/-8.47	-8.67/-5.04	-3.29/-3.28	-3.44/-4.95	-9.67/-18.03	-10.18/-5.4
Θ (45°)	-1.680/-4.5	1.391/-2.3	0.90/-0.5	-0.93/-1.16	-3.02/-2.75	-1.98/-2.38	-4.79/-9.46	-7.33/-8.03	-8.65/-4.41	-4.03/-4.43	-2.57/-0.94	-1.44/-4.99	-5.34/-6.69	-5.77/-4.05	-2.91/-5.27	-7.25/-9.9	-9.85/-9.22	-13.38/-8.08	-4.37/-6.29	-8.62/-2.81	-1.36/-4.18	-2.74/-2.97	-12.85/-18.39	-11.03/-5.74
Θ (52.5°)	1.31/-2.21	1.22/-0.59	-0.210/-77	0.961/-14	-2.07/-6.16	-3.08/-8.04	-1.73/-8.05	-6.82/-6.23	-6.88/-7.72	-4.87/-3.76	0.141/-58	-0.79/-3.88	-2.91/-4.57	-6.36/-1.66	1.931/-15	-1.71/-1.92	-0.53/-3.97	-18.88/-5.81	-0.58/-1.95	-4.1/-0.15	0.57/-2.79	-1.18/-1.41	-1.84/-9.21	-8.76/-3.37
Θ (60°)	1.763/-0.3	1.67/-0.07	-0.06/-0.59	-0.260/-45	-7.22/-2.59	-4.47/-0.88	-1.36/-8	-9.73/-5.69	-4.77/-1.8	-2.26/-6.1	-1.261/-41	-0.80/-0.75	-1.04/-2.72	-4.64/-1.23	3.092/-79	-0.46/-0.57	1.67/-0.68	-8.99/-8.99	-0.43/-1.02	-0.49/-6.27	1.052/-83	-2/-1.83	1.20/-0.8	-6.02/-16.4
Θ (67.5°)	0.65/-3.43	2.922/-3.1	1.12/-4.08	-4.82/-0.58	-0.67/-0.38	-2.67/-3.9	-3.99/-8.34	-14.35/-9.22	-3.01/-0.68	-5.06/-6.27	-2.48/-1.22	1.84/-1.93	0.41/-2.6	-4.14/-0.52	3.09/-1.74	-1.26/-0.05	2.25/-0.56	-6.68/-5.41	-0.72/-1.1	1.472/-7.2	1.032/-07	0.15/-1.24	-1.4/-2.58	-19.01/-6.87
Θ (75°)	-12.66	3.552/-66	1.23/-3.85	-9.51/-2.89	-1.94/-0.11	-2.31/-7.18	-10.35/-7.81	-9.95/-11.12	-4.32/-0.59	-3.31/-6.45	-4.02/-0.58	3.352/-86	-0.01/-0.34	-2.85/-1.36	1.907	-1.29/-0.26	1.87/-0.8	-5.12/-4.84	-2.25/-0.27	0.54/-1.77	1.343/-2	-0.18/-1.48	0.5/-0.47	-8.38/-11
Θ (82.5°)	-2.342/-58	3.66/-1.9	0.26/-2.37	-12.56/-4.62	-1.640/-9.1	4.25/-16	-10.38/-4.64	-5.54/-11.49	-6.96/-1.55	-4.25/-7.61	-4.65/-0.09	3.622/-75	-0.25/-3.59	-3.84/-1.8	1.39/-0.77	-1.73/-0.58	1.42/-0.83	6.25/-2.98	-3.83/-6.28	-0.69/-0.05	1.052/-83	-2/-1.83	1.20/-0.8	-6.02/-16.4
Θ (90°)	-6.170/-83	1.651/-106	-2.71/-3.77	-12.8/-8.21	-1.88/-1.25	-7.11/-19.2	-12.94/-4.58	-8.25/-10.42	-10.77/-3.07	-5.3/-10	-6.88/-2.02	2.022/-0.1	-1.1/-5.29	-6.99/-4.02	-0.61/-2.06	-3.2/-9.2	0.83/-1.26	-4.79/-2.8	-6.17/-12.17	-4.33/-2.49	-0.881/-3	-3.2/-3.8	0.17/-0.45	-4/-19.16
Θ (97.5°)	-11.29/-0.96	-0.690/-31	-4.42/-6.28	-6.82/-8.38	-4.52/-4.61	-10.29/-13.81	-8.48/-9.39	-7.07/-12.83	-9.65/-1.7	-8.59/-9.91	-8.29/-2.57	0.880/-43	-3.9/-8.32	-7.35/-13.3	-0.68/-2.59	-5.24/-4.54	0.16/-2.94	-5.43/-2.97	-6.69/-16.82	-7.67/-5.02	-5.26/-0.78	-4.92/-5.27	-1.35/-2.24	-4/-18.51
Θ (105°)	-9.14/-58	-3.5/-2.5	-8.84/-7.56	-6.66/-18.5	-7.31/-10.4	-12.25/-14.8	-9.99/-6.12	-7.74/-17.27	-8.55/-6.9	-10.48/-7.83	-5.81/-3.74	-0.65/-1.06	-4.39/-7.21	-9.22/-8.03	-2.21/-3.09	-5.52/-4.27	-0.37/-6.13	-8.03/-5.86	-5.97/-12.05	-12.06/-7.76	-12.88/-2.08	-5.37/-7.13	-2.69/-4.1	-3.32/-11.49
Θ (112.5°)	-17.3/-9.12	-4.26/-4.7	-4.88/-5.93	-9.47/-95	-6.57/-11.18	-14.68/-18.2	-16.47/-14.22	-17.51/-18.85	-16.12/-12.78	-12.94/-7.17	-5.29/-2.17	-8.42/-4.12	-13.83/-8.55	-4.34/-6.28	-1.61/-2.96	-6.59/-2.76	-2.25/-16.8	-6.97/-12.25	-9.93/-10.87	-15.03/-10.61	-17.39/-3.87	-3.81/-12.68	-5.78/-3.1	-2.74/-18.19
Θ (120°)	-8.31/-14.54	-8.59/-5.96	-4.56/-10.65	-13.05/-7.64	-10.08/-8.35	-14.24/-13.2	-15.12/-14.21	-12.69/-16.38	-12.52/-17.53	-11.36/-8.28	-5.35/-3.1	-2.63/-6.85	-13.91/-9.63	-4.81/-6.79	-3.07/-2.95	-4.51/-3.01	-2.84/-5.25	-7.09/-14.38	-14.98/-11.16	-18.36/-9.32	-17.82/-10.48	-3.39/-5.31	-17.98/-6.48	-3.18/-4.79
Θ (127.5°)	-5.3/-9.66	-13.98/-8.15	-8.25/-7.15	-8.8/-6.42	-14.28/-11.99	-19.28/-13.87	-10.69/-10.51	-13.05/-18.15	-11.38/-6.46	-6.93/-6.26	-6.27/-3.65	-3/-6.06	-14.15/-19.5	-3.72/-6.41	-5.35/-2.57	-2.5/-3.78	-3.35/-2.59	-12.83/-17.59	-11.61/-13.93	-16.12/-10.79	-17.71/-11.51	-4.64/-5.78	-11.94/-9.84	-4.54/-3.81
Θ (135°)	-4.22/-4.52	-10.58/-17.96	-18.66/-9.03	-4.84/-9.52	-14.89/-15.93	-17.74/-12.37	-17.27/-12.79	-11.94/-11.5	-14.29/-10.85	-14.03/-6.78	-5.04/-5.28	-6.72/-8.18	-12.72/-14.33	-7.64/-6.46	-8.68/-6.8	-4.93/-3.11	-5.34/-9.64	-12.57/-18.06	-19.15/-16.11	-14.86/-13.77	-18.71/-14.45	-12.52/-14.92	-17.76/-12.7	-5.86/-3.88
Θ (142.5°)	-13.2/-7.72	-7.42/-11.16	-16.8/-83	-8.68/-19.17	-11.86/-10.34	-13.7/-17.12	-10.41/-13.83	-9.98/-8.37	-11.17/-13.96	-13.81/-10.4	-8.03/-6.27	-6.82/-10.08	-12.11/-13.03	-9.39/-9.51	-11.84/-9.1	-5.09/-5.84	-6.22/-7.32	-15.61/-16.77	-17.21/-12.79	-9.55/-12.95	-19.71/-18.9	-13.28/-15.27	-17.92/-15.92	-17.6/-14.77
Θ (150°)	-17.98/-18.23	-17.41/-18.91	-17.63/-18.06	-15.75/-18.23	-12.1/-8.63	-10.89/-17	-15.34/-17.32	-15.21/-18.37	-15.17/-14.38	-17.33/-15.83	-10.52/-8.78	-9.72/-14.77	-19.17/-19.91	-13.44/-8.64	-4.76/-8.12	-10.29/-9.56	-9.68/-13.35	-13.36/-12.43	-18.03/-18.69	-16.62/-13.3	-13.82/-18.69	-17.78/-17.38	-16.32/-13.06	-13.95/-18.24
Θ (157.5°)	-16.19/-13.19	-9.43/-9.37	-12.58/-16.84	-19.01/-15.68	-14.78/-12.37	-11.93/-12.97	-18.24/-11.79	-10.66/-13.76	-16.63/-14.63	-12.79/-11.78	-11.83/-10.94	-11.17/-11.64	-12.4											



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

Θ(165°)	-16.6/-8.74	-5.48/-5.42	-9.14/-14.48	-18.49/-18.04	-18.68/-18.18	-17.82/-17.94	-17.5/-13.02	-12.41/-13.32	-14.09/-13.68	-12.12/-10.72	-11.01/-12.25	-17.46/-17.91	-12.82/-8.18	-7.59/-11.37	-16.71/-19.16	-18.76/-18.69	-17.97/-18.21	-17.25/-18.94	-19.21/-16.22	-12.42/-15.51	-18.84/-17.89	-16.72/-12.23	-9.99/-9.43	-12.92/-19.01
Θ(172.5°)	-17.42/-14.32	-12.12/-14.2	-18.93/-18.6	-17.22/-18.4	-12.63/-12.52	-11.71/-10.85	-11.91/-14.02	-18.47/-16.99	-12.53/-11.17	-10.53/-11.45	-13.74/-14.15	-15.16/-16.39	-15.85/-15.97	-17.2/-18.69	-18.69/-18	-18.33/-17.3	-18.58/-17.23	-14.72/-14.05	-15.06/-16.49	-17.8/-18.02	-17.84/-18.54	-18.9/-18.46	-18.53/-19.07	-18.23/-19.21
Θ(180°)	-12.74/-12.23	-13.17/-12.14	-12.2/-17.59	-18.67/-17.09	-18.08/-13.01	-11.75/-11.77	-12.32/-16.26	-16.53/-18.35	-18.91/-18	-18.87/-17.69	-14.81/-16.21	-17.75/-19.76	-18.55/-15.49	-17.75/-19.76	-18.55/-15.49	-13.79/-16.33	-13.63/-12.3	-13.79/-16.33	-14.3/-14.74	-17.82/-17.56	-15.92/-16.54	-18.99/-19.17	-19.17/-17.85	-17.51/-17.41
Freq(Hz)	5.6GPol	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°)	-9.06/-7.93	-7.96/-8.45	-8.33/-7.97	-8.55/-9.75	-10.32/-11.31	-12.67/-13.29	-14.5/-16.29	-15.68/-14.87	-13.4/-11.46	-9.8/-7.96	-6.98/-6.82	-6.03/-5.54	-5.55/-5.67	-6.87/-7.2	-7.82/-9.38	-10.32/-9.75	-11.43/-11.08	-11.61/-10.95	-10.2/-10.11	-10.22/-10.26	-9.43/-8.89	-8.67/-9.33	-	-
Θ(7.5°)	-5.79/-5.9	-6.23/-6.36	-5.92/-6.29	-6.62/-6.14	-6.6/-7.39	-8.05/-8.74	-8.71/-9.65	-10.9/-10.45	-10.62/-10.33	-9.55/-8.79	-8.18/-7.83	-10.08/-10.28	-10.26/-10.57	-11.99/-12.08	-10.01/-9.8	-9.77/-8.88	-8.74/-9.5	-11.33/-11.66	-18.07/-18.46	-17.32/-12.45	-9.08/-7.1	-5.88/-5.22	-4.74/-5.18	-5.66/-5.67
Θ(15°)	-3.94/-4.81	-6.33/-6.69	-5.93/-5.4	-6.18/-6.46	-5.49/-7.4	-9.46/-10.61	-13.8/-16.62	-19.16/-18.3	-19.12/-17.77	-15.27/-11.7	-9.31/-8.11	-8.03/-8.1	-8.03/-7.82	-7.22/-8.33	-8.98/-8.66	-9.75/-11.06	-12.79/-13.18	-14.65/-14.39	-17.91/-18.52	-19.16/-17.64	-11.41/-7.67	-5.63/-4.24	-3.09/-2.65	-2.67/-3.28
Θ(22.5°)	-5.09/-5.11	-6.25/-7.45	-7.58/-6.06	-6.48/-10.04	-12.39/-12.69	-16.41/-16.2	-15.89/-18.6	-18.08/-15.1	-10.17/-10.75	-13.02/-13.59	-10.69/-8.3	-7.77/-7.94	-9/-8.86	-8.8/-11.55	-18.11/-17.03	-13.61/-17.22	-18.21/-18.25	-16.07/-18.72	-18.22/-17.47	-11.08/-5.99	-3.16/-3.08	-4.22/-6.07	-	-
Θ(30°)	-2.35/-3.96	-3.14/-4	-7.91/-13.84	-16.3/-13.94	-7.69/-6.79	-9.09/-9.51	-10.15/-8.07	-14.04/-15.9	-7.08/-6.25	-8.32/-9.29	-7.14/-4.48	-3.94/-4.34	-6.13/-7.6	-7.76/-7.21	-8.91/-13.18	-16.71/-14.02	-8.36/-5.16	-5.66/-9.99	-17.91/-10.56	-7.06/-4.75	-9.78/-12.21	-14.26/-13.64	-10.18/-7.63	-7.23/-3.59
Θ(37.5°)	-0.42/-1.51	1.87/0.53	-1.69/-2.1	-2.14/-3.99	-5.03/-2.85	-1.62/-0.99	-1.88/-5.5	-4.87/-4.36	-2.68/-2.94	-4.91/-5.37	-3.16/-1.89	-2.09/-2.36	-5.46/-13.7	-12.47/-6.01	-3.93/-4.03	-4.26/-4.71	-3.84/-2.76	-3.65/-7.54	-13.22/-9.26	-7.33/-5.05	-5.35/-7.7	-11.18/-8.65	-12.02/-12.68	-9.5/-3.41
Θ(45°)	2.48/2.95	3.32/3.37	2.37/2.08	0.66/-0.66	1.16/2.78	1.93/-1.44	-1.16/-1.95	-2.41/-1.09	-0.17/0.14	-1.2/-1.96	-2.62/-3.32	-2.3/-0.07	-2.03/-7.08	-9.82/-5.79	-2.26/-0.15	0.5/-0.78	-1.1/-2.09	0.57/-3.03	-3.47/-1.65	0.85/-1.61	-0.78/-0.7	-7.67/-6.04	-5.52/-9.57	-5.80/-4.04
Θ(52.5°)	2.82/3.51	3.81/2.29	0.15/2.28	2.76/1.29	1.62/3.25	2.93/2.07	1.49/0.87	0.88/-1.26	1.73/1.94	1.06/0.2	-1.44/-2.71	2.22/3.74	1.94/-1.78	-6.33/-6.29	2.74/0.57	1.36/0.22	-0.99/1.5	1.54/-0.7	0.85/4.66	5.01/4.44	4.28/2.68	2.68/-4.38	-3.11/-7.49	-2.59/-1.42
Θ(60°)	2.08/2.74	1.6/-2.42	-0.91/-1.69	2.38/1.64	0.91/0.7	2.37/2.79	0.14/-0.29	1.05/-1.37	2.93/3.78	1.46/-0.47	-0.48/-0.36	2.5/3.54	3.33/-0.88	-6.23/-7.29	-1.5/-1.76	2.21/-4.1	-1.28/-1.5	1.38/0.32	0.45/-4.7	4.84/-6.57	6.65/3.62	0.14/-1.71	-4.88/-8.64	-2.71/-1.48
Θ(67.5°)	0.72/89	0.76/-4.99	-1.77/-2.4	0.20/96	0.24/0.29	1.19/1.97	0.37/-3.48	-0.88/-0.8	2.61/4.18	2.52/-0.06	0.82/1.3	2.85/2.67	2.38/-3.17	-10.16/-4.45	0.57/1.55	2.19/1.53	-1.73/0.56	-0.06/-2.58	-0.23/-1.27	3.15/5.25	6.83/3.82	2.89/-0.08	-4.69/-5.25	-6.26/-1.53
Θ(75°)	-0.42/2.46	-1.46/-3.31	-1.85/-2.24	-1.79/-0.83	-1.72/-0.67	-0.23/-0.76	-1.2/-6.73	-3.91/-3.53	0.79/3.24	2.01/-0.7	0.16/0.57	2.62/1.73	1.18/-5.86	-12.07/-3.88	1.14/1.12	1.56/0.88	-4.12/-1.28	-3.87/-7.47	-2.67/0.48	1.05/3.79	5.15/3.54	4.55/-4.44	-2.03/-3.62	-11.58/-9.95
Θ(82.5°)	-0.82/-1.16	0.94/-2.78	-2.59/-2.52	-2.81/-4.44	-5.51/-1.34	-1.17/-4.22	-3.67/-5.83	-7.6/-6.9	-1.74/-1.76	0.81/-3.25	-1.52/-0.34	1.0/-19	-0.09/-8.1	-16.17/-6.68	1.19/0.88	1.19/-0.76	-5.52/-4.23	-9.06/-11.04	-2.28/0.66	1.08/-1.21	2.51/3.05	4.13/1	-1.55/-2.82	-5.68/-14.79
Θ(90°)	-3.21/-0.09	0.08/-3.36	-3.86/-7.25	-6.92/-6.69	-6.86/-0.66	-5.47/-2.75	-6.37/-5.66	-7.17/-0.25	-0.52/-7.2	-6.05/-2.38	6.07/0.44	-0.07/-9.5	-18.64/-7.27	-1.37/-0.66	-0.71/-2.02	-5.88/-4.72	-7.09/-18.38	-2.62/-1.27	-1.53/-2.7	0.39/-3	2.61/-0.55	-2.57/-1.91	-4.16/-16.53	-
Θ(97.5°)	-9.25/-1.32	-3.61/-2.53	-6.57/-7.65	-8.24/-4.81	-5.88/-3.27	-3.65/-7.98	-6.19/-2.83	-5.66/-5.98	-6.66/-2.47	-3.06/-10.92	-6.18/-3.77	-0.58/-0.33	-0.77/-11.71	-17.54/-8.01	-2.5/-1.03	-0.39/-4.22	-14.72/-6.22	-12.8/-9	-1.43/-2.51	-4.53/-4.06	-0.99/-8.45	1.01/-3.03	-5.35/-0.49	-7.71/-15.27
Θ(105°)	-11.41/-7.03	-5.57/-5.21	-10.62/-8.05	-7.97/-7.54	-9.3/-9.86	-7.52/-18.18	-17.32/-6.63	-13.25/-6.67	-3.79/-3.66	-1.76/-11.45	-6.76/-4.14	-1.23/-8.05	-8.62/-10.15	-18.25/-10.69	-4.48/-3.56	-2.17/-5.13	-18.61/-10.3	-14.94/-9.33	-6.68/-8.19	-12.32/-4	-1.91/-7.21	-2.08/-5.36	-4.03/-3.51	-8.32/-8.69
Θ(112.5°)	-10.5/-11.24	-2.06/-1.63	-9.67/-13.38	-6.58/-18.43	-10.04/-8.69	-9.97/-11.53	-9.27/-7.86	-18.61/-3.83	-7.77/-4.27	-11.61/-10.4	-9.02/-5.76	-8.23/-3.6	-4.19/-13.65	-17.04/-8.94	-8.25/-6.63	-4.17/-9.45	-8.04/-5.82	-10.56/-15.05	-8.47/-4.67	-4.91/-3.32	-5.34/-6.82	-7.87/-11.05	-1.65/-16.02	-
Θ(120°)	-14.67/-17.52	-4.18/-10.25	-4.37/-10.58	-14.92/-13.24	-3.61/-7.73	-9.38/-18.69	-12.47/-11.98	-17.4/-15.44	-9.44/-7.49	-13.95/-8.26	-5.58/-4.2	-1.91/-5.2	-6.65/-9.58	-11.94/-14.97	-6.64/-2.94	-10.07/-9.61	-9.1/-7.51	-16/-17.25	-5.54/-6.27	-10.17/-17.23	-8.88/-6.61	-7.81/-6.02	-12.17/-9.21	-5.65/-9.13
Θ(127.5°)	-5.28/-13.32	-8.54/-8.5	-5.81/-7.27	-14.93/-5.15	-7.89/-7.26	-8.63/-9.94	-13.91/-8.39	-9.33/-9.99	-12.47/-5.87	-5.67/-23	-4.14/-8.75	-9.19/-8.13	-11.34/-10.7	-5.17/-6.46	-12.35/-9.31	-7.51/-15.05	-9.05/-9.17	-16.02/-10.43	-12.12/-14.3	-9.16/-13	-3.99/-9.72	-17.88/-15.61	-11.64/-11.52	-7.84/-4.44
Θ(135°)	-35.4/-8.82	-10.54/-13.2	-18.88/-4.55	-5.17/-6.56	-10.19/-12.01	-14.93/-15.73	-14.2/-12.05	-11.51/-13.91	-16.61/-17.68	-19.25/-15.08	-5.34/-7.24	-4.83/-2.32	-5.27/-14.43	-17.06/-10.58	-1.369/-7.18	-6.93/-10.97	-9.61/-11.13	-19.09/-17.89	-11.65/-13.99	-11.71/-12.26	-16.47/-14.73	-9.58/-8.78	-11.78/-11.65	-17.02/-7.42
Θ(142.5°)	-10.53/-11.42	-6.38/-13.08	-19.45/-10.12	-11.37/-13.57	-10.76/-13.31	-12.6/-18.45	-18.1/-11.66	-9.98/-16.36	-16.23/-14.01	-18.73/-14.72	-7.86/-6.69	-11.88/-6.12	-7.71/-10.04	-8.19/-12.74	-11.15/-8.34	-8.27/-4.39	-6.38/-6.26	-6.5/-16.7	-13.53/-18.49	-8.79/-10.85	-18.93/-18.34	-18.42/-13.42	-11.83/-18.56	-11.86/-7.15
Θ(150°)	-5.42/-18.14	-19.23/-15.72	-12.34/-16.33	-17.86/-19.14	-17.51/-13.38	-18.41/-18.7	-17.07/-15.66	-18.01/-19.15	-16.84/-12.49	-14.7/-15.31	-6.45/-5.49	-8.63/-14.64	-10.09/-7	-7.85/-8.63	-8.6/-8.64	-10.34/-9.26	-7.12/-5.54	-7.46/-10.56	-11.94/-12.93	-10.2/-11.3	-18.05/-19.17	-14.93/-18.74	-17.78/-15.61	-11.64/-11.52
Θ(157.5°)	-16.34/-10.77	-6.14/-6.77	-12.38/-16.11	-13.58/-15.98	-18.74/-17.71	-19.09/-18.43	-19.12/-16.59	-16.7/-16.78	-19.12/-13.06	-15.45/-17.25	-17.76/-13.25	-11.41/-12.51	-10.84/-12.07	-15.18/-17.59	-19.59/-18.9	-18.91/-18.72	-12.95/-14.74	-18.47/-18.4	-18.68/-19.95	-14.43/-14.1	-16.55/-13.79	-	-	-
Θ(165°)	-12.67/-10.9	-11.53/-15.37	-19.29/-16.44	-15.19/-14.72	-16.03/-15.43	-17.58/-16.17	-13.48/-11.51	-9.61/-8.85	-9.83/-14.39	-18.68/-15.11	-10.25/-7.43	-8.08/-8.82	-9.33/-9.43	-7.47/-9.62	-14.27/-14.5	-13.21/-14.28	-16.16/-19.03	-17.5/-18.88	-18.02/-18.16	-18.98/-18.32	-17.15/-18.59	-18.23/-17.69	-15.06/-13.66	-13.36/-13.91
Θ(172.5°)	-17.43/-18.7	-16.27/-13.36	-11.02/-10.01	-9.5/-9.87	-10.14/-12.02	-13.37/-15.43	-18.92/-15.74	-14.72/-15.24	-17.67/-14.94	-11.59/-15.99	-1.13/-14	-12.84/-12.72	-14.37/-13.51	-13.56/-13.97	-11.82/-11.75	-12.1/-14.06	-16.74/-17.71	-17.65/-19.34	-18.98/-18.57	-18.16/-19.09	-18.29/-18.55	-17.87/-17.22	-17.28/-17.35	-15.24/-15.54
Θ(180°)	-12.32/-12.71	-13.96/-16.49	-17.84/-15.85	-13.73/-13.54	-13.92/-13.21	-14.19/-14.66	-16.47/-16.1	-15.73/-17.07	-17.25/-18.38	-18.47/-18.13	-18.63/-18.1	-15.82/-15.06	-12.93/-11.88	-12.37/-16.72	-12.87/-13.68	-13.71/-13.85	-14.22/-15.07	-18.61/-18.99	-18.63/-19.14	-18.07/-16.6	-14.15/-12.28	-13.08/-13.31	-12.16/-11.94	-12.31/-12.12
Freq(Hz)	5.785GPol	PhiAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-15.79/-14.16	-12.23/-12.73	-14.16/-9.22	-17.71/-8.05	-8.26/-8.87	-8.18/-7.13	-6.92/-7.61	-8.38/-8.57	-8.62/-9.81	-10.39/-18.71	-17.55/-18.33	-15.92/-12.32	-9.89/-8.21	-5.42/-5.97	-6.58/-4.92	-5.25/-5.95	-6.85/-8.05	-8.58/-10.14	-11.27/-12.25	-15.21/-17.4	-	-	-	-
Θ(7.5°)	-18.1/-16.95	-13.47/-10.47	-11.57/-11.83	-7.66/-7.05	-7.47/-6.96	-7.41/-6.24	-5.79/-7.1	-7.52/-8.18	-8.8/-10.65	-12.43/-14.75	-18.69/-17.98	-18.36/-18.06	-16.53/-15.17	-14.91/-13.71	-12.06/-12.53	-12.87/-12.44	-13.16/-11.27	-11.92/-11.68	-11.08/-8.2	-7.57/-8.11	-8.06/-8.6	-10.2/-13.6	-16.22/-18.33	-18.59/-18.01
Θ(15°)	-14.21/-16.03	-17.45/-18.46	-17.74/-18.42	-15.15/-14.32	-13.66/-9.17	-9																		



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

Θ(15°)	-16.72/-12.94	-9.78/-7.72	-6.38/-5.21	-4.13/-3.07	-2.28/-1.7	-1.34/-1.13	-1.14/-1.34	-1.74/-2.35	-3.24/-4.49	-6.19/-8.24	-10.72/-13.7	-17.57/-17.96	-19.48/-17	-11.85/-8.31	-5.61/-3.52	-1.99/-0.95	-0.25/0.13	0.34/0.4	0.33/0.14	-0.15/-0.57	-1.09/-1.79	-2.91/-4.41	-6.41/-8.99	-12.24/-15.99
Θ(22.5°)	-8.9/-7.82	-6.38/-5.72	-4.2/-3.39	-2.59/-1.85	-1.31/-0.89	-0.54/-0.15	0.12/0.21	0.05/-0.38	-1.12/-2.19	-3.74/-5.76	-8.42/-11.87	-15.61/-17.4	-16.1/-13.46	-10.63/-7.92	-6.65/-3.96	-2.7/-1.86	-1.3/-1.04	-1.1/-1.07	-1.11/-1.15	-1.16/-1.25	-1.41/-1.65	-2.08/-2.85	-4/-5.49	-7.18/-8.56
Θ(35°)	-5.55/-5.03	-4.06/-3.16	-2.39/-1.8	-1.35/-1.05	-0.85/-0.64	-0.21/0.37	0.83/1.06	0.99/0.72	0.14/-0.59	-1.55/-2.69	-4.03/-5.62	-7.3/-8.53	-8.98/-8.71	-7.63/-6.4	-4.98/4	-3.49/-3.2	-2.9/-2.6	-2.34/-2.4	-2.76/-2.37	-1.81/-1.29	-1.02/-1.13	-1.69/-2.74	-4.04/-5.25	
Θ(37.5°)	-3.91/-3.53	-2.77/-1.97	-1.33/-0.81	-0.53/-0.5	-0.59/-0.46	0.05/0.7	1.22/1.44	1.36/1.01	0.46/-0.13	-0.71/-1.27	-1.85/-2.7	-3.72/-4.62	-5.09/-5.08	-4.71/-4.17	-3.7/-3.6	-3.73/-65	-3.19/-2.47	-1.93/-1.86	-2.19/-2.7	-2.87/-2.48	-1.73/-0.95	-0.45/-0.34	-0.72/-1.57	-2.68/-3.57
Θ(45°)	-3.1/-2.92	-2.37/-1.73	-1.04/-0.41	-0.11/-0.23	-0.53/-0.49	0.11/0.86	1.43/1.75	1.81/63	1.22/0.61	-0.06/-0.59	-0.94/-1.32	-1.94/-2.5	-2.75/-2.68	-2.54/-2.6	-2.86/-3.3	-3.57/-3.17	-2.21/-1.33	-0.82/-0.83	-1.2/-1.74	-2.08/-2.09	-1.77/-1.3	-0.83/-0.56	-0.66/-1.18	-1.94/-2.62
Θ(52.5°)	-2.84/-2.97	-2.72/-2.2	-1.34/-0.37	-0.16/-0.11	-0.82/-1.07	-0.47/0.4	1.11/1.6	1.91/2.02	1.86/1.27	0.31/-0.61	-1.88/-2.2	-2.04/-1.61	-1.33/-1.51	-2.35/-3.56	-3.84/-2.68	-1.4/-0.68	-0.54/-0.78	-1.16/-1.58	-1.91/-2.16	-2.3/-2.27	-1.87/-1.26	-0.88/-1	-1.52/-2.14	
Θ(60°)	-3.4/-3.77	-3.71/-3.17	-2/-0.53	0.24/-0.23	-1.45/-2.1	-1.64/-0.84	-0.08/0.65	1.32/1.81	1.98/1.54	0.45/-0.92	-1.92/-2.36	-2.83/-3.13	-2.58/-1.56	-0.75/-0.69	-1.79/-3.73	-4.35/-2.66	-1.18/-0.7	-0.9/-1.36	-1.85/-2.43	-2.94/-3.41	-3.7/-3.88	-3.47/-2.46	-1.69/-1.55	-1.96/-2.73
Θ(67.5°)	-3.5/-3.83	-3.96/-3.54	-2.37/-0.67	0.28/-0.24	-1.67/-2.44	-2.15/-1.62	0.76/1.63	2.07/1.64	0.32/-1.3	-2.48/-3.5	-4.53/-4.49	-3.03/-1.44	-0.42/-0.28	-1.49/-3.65	-4.01/-2.1	-0.81/-0.81	-1.47/-2.15	-2.8/-3.63	-4.39/-4.7	-4.81/-5.22	-5.28/-4.43	-3.45/-2.79	-2.95/-3.08	
Θ(75°)	-2.83/-3.02	-3.48/-3.8	-3.15/-1.37	-0.21/-0.81	-2.47/-3.21	-2.99/-2.8	-2.57/-1.9	-0.67/0.69	1.73/1.63	0.06/-1.82	-2.73/-3.87	-5.46/-5.48	-3.45/-1.63	-0.48/-0.18	-1.26/-3.52	-3.8/-1.67	-0.49/-0.83	-1.81/-2.51	-3.18/-4.29	-5.42/-5.96	-6.22/-7.19	-7.99/-7.14	-5.49/-4.12	-3.26/-2.78
Θ(82.5°)	-2.58/-2.54	-3.34/-4.31	-4.15/-2.01	-0.75/-1.59	-3.24/-3.54	-3.38/-3.66	-3.88/-3.38	-1.9/-0.02	1.47/1.41	-0.86/-3.63	-3.71/4.1	-5.18/-4.21	-2.48/-1.37	-0.69/-0.55	-2/-4.93	-4.74/-2.02	-0.7/-1.02	-1.9/-2.44	-3.15/-4.34	-5.53/-6.21	-6.7/-8.02	-9.24/-8.59	-6.72/-5.21	-4.22/-3.37
Θ(90°)	-2.93/-2.88	-4.1/-5.82	-6.02/-3.4	-1.97/-2.91	-4.38/-4.11	-3.93/-4.65	-5.49/-5.51	-4.1/-1.67	0.76/1.48	-0.44/-4.9	-6.26/-5.42	-5.94/-4.94	-3.01/-1.94	-1.37/-1.08	-2.04/-4.89	-6.55/-3.71	-1.79/-1.68	-2.34/-2.82	-3.39/-4.18	-5.05/-5.89	-6.89/-8.85	-10.73/-10.46	-9.17/-7.56	-5.84/-3.92
Θ(97.5°)	-3.6/-3.8	-5.66/-7.76	-8.61/-5.76	-4.68/-5.75	-6.51/-5.31	-5.16/-6.56	-8.59/-9.22	-7.22/-3.5	-0.33/0.52	-1.7/-2.26	-8.69/-6.77	-6.23/-4.74	-3.41/-2.93	-2.81/-2.53	-3.14/-5.42	-6.95/-4.75	-2.99/-2.64	-2.82/-2.92	-3.08/-3.48	-4.22/-5.33	-6.92/-8.88	-9.73/-9.1	-8.37/-7.28	-5.63/-4.08
Θ(105°)	-4.83/-5.47	-7.36/-10.88	-12.77/-9.85	-9.09/-10.3	-8.97/-7.2	-7.64/-10.25	-14.48/-16.2	-12.29/-7.23	-3.35/-1.9	-3.47/-9.26	-16.88/-10.41	-8.5/-7.34	-5.71/-4.75	-4.62/-4.55	-4.74/-6.16	-8.41/-7.56	-5.19/-3.7	-2.75/-2.26	-2.46/-3.23	-4.46/-6.02	-7.27/-7.49	-6.6/-5.84	-6/-6.31	-5.9/-4.9
Θ(112.5°)	-7.87/-10.22	-13.66/-16.76	-14.17/-12.2	-15.12/-11.02	-9.11/-8.62	-10.13/-13.27	-15.12/-12.96	-10.06/-7.34	-5.15/-4.12	-5.22/-9.74	-18.62/-15.95	-12.27/-11.32	-8.93/-7.1	-7.51/-8.3	-10.04/-10.26	-8.2/-5.67	-3.87/-3.15	-3.71/-5.34	-7.09/-5.34	-4.03/-3.7	-4.44/-5.59	-6.36/-6.88	-5.84/-5.92	
Θ(120°)	-7.25/-9.47	-11.94/-13.89	-15.13/-14.98	-12.84/-13.33	-9.4/-10.37	-12.89/-15.69	-15.3/-12.58	-9.42/-6.87	-5.34/-5.29	-7.05/-11.28	-18.52/-17.22	-16.63/-16.81	-10.8/-8.88	-5.66/-6.02	-8.86/-7.37	-7.65/-9.24	-2.99/-2.64	-4.41/-3.22	-3.57/-5.17	-7.45/-8.82	-9.23/-3.42	-3.24/-3.71	-4.46/-5.73	
Θ(127.5°)	-9.04/-11.85	-15.13/-18.43	-17.96/-13.42	-10.08/-8.36	-8.1/-9.43	-11.9/-14.5	-15.08/-13.26	-10.09/-7.21	-5.53/-5.76	-8.55/-15.17	-18.81/-19.12	-17.99/-15.52	-8.5/-5.16	-4.01/-4.37	-5.91/-7.62	-7.8/-7.23	-7.5/-7.41	-5.67/-4.33	-4.57/-6.36	-9.31/-12.06	-11.59/-9.2	-6.79/-5.07	-4.18/-4.33	-5.33/-7.09
Θ(135°)	-4.97/-9.75	-10.71/-11.89	-12.32/-11.82	-11.34/-13.63	-12.39/-13.15	-14.02/-14.89	-15.1/-14.08	-11.45/-8.36	-6.32/-6.67	-7.86/-12.74	-18.24/-19.97	-18.67/-13.56	-8.8/-6.02	-4.57/-4.51	-5.88/-4.86	-9.82/-8.13	-7.24/-1.84	-6.79/-10.08	-10.35/-11.06	-10.83/-9.96	-8.96/-8.71	-8.38/-9.74	-7.56/-8.01	-9.05/-9.4
Θ(142.5°)	-10.91/-11.08	-11.99/-13.31	-15.34/-12.12	-18.04/-16.06	-12.53/-10.82	-10.88/-12.21	-13.99/-14.23	-8.62/-9.65	-7.63/-7.49	-9.67/-14.73	-19.14/-17.91	-15.44/-11.75	-9.67/-9.93	-7.16/-7.48	-9.32/-12.84	-13.38/-9.82	-6.21/-5.62	-6.5/-6.03	-8.83/-8.29	-7.15/-5.65	-6.57/-4.1	-9.38/-12.04	-15.02/-16.31	-14.05/-11.84
Θ(150°)	-13.91/-18.2	-19.15/-18.98	-18.51/-17.59	-17.24/-13.95	-11.96/-11.48	-12.66/-16.07	-18.12/-19.16	-19.14/-18.08	-15.49/-13.57	-13.65/-15.02	-15.97/-16.82	-18.38/-19.13	-17.36/-14.76	-12.19/-10.59	-10.22/-11.5	-14.71/-13.39	-8.97/-6.78	-6.3/-6.93	-8.05/-9.09	-9.89/-10.98	-12.78/-14.94	-15.69/-13.36	-10.97/-9.83	-8.89/-11.48
Θ(157.5°)	-12.34/-13.68	-14.13/-14.79	-15.42/-15.6	-15.03/-14.17	-13.09/-12.38	-12.05/-12.14	-12.66/-13.83	-15.36/-16.88	-17.78/-16.2	-13.7/-11.82	-10.88/-11.1	-12.16/-14.1	-16.39/-18.15	-17.39/-14.84	-12.58/-11.22	-10.73/-10.28	-9.09/-8.03	-7.69/-8.04	-8.86/-8.94	-11.66/-13.29	-12.71/-10.68	-8.82/-7.66	-7.16/-7.57	-8.89/-10.46
Θ(165°)	-16.27/-15.71	-15.79/-16.72	-18.24/-18.12	-16.15/-14.03	-12.25/-10.82	-9.84/-9.27	-9.4/-10.27	-11.92/-13.86	-16.3/-19.25	-18.71/-15.08	-12.21/-10.74	-10.52/-11.48	-13.47/-15.89	-17.71/-17.08	-14.29/-11.19	-8.78/-7.61	-7.32/-7.54	-8.03/-8.54	-8.91/-9.27	-9.72/-10.18	-10.47/-10.65	-11.1/-11.23	-13.56/-15.32	-16.61/-16.09
Θ(172.5°)	-13.89/-14.05	-14.96/-16.78	-19.69/-17.96	-18.28/-18.6	-19.14/-18.46	-16.42/-15.1	-14.85/-15.2	-16.75/-18.85	-17.88/-18.95	-18.82/-18.73	-18.52/-17.78	-18.43/-18.5	-18.19/-18.96	-18.38/-15.22	-12.52/-10.13	-8.19/-7.02	-6.61/-6.68	-17.15/-7.96	-9.02/-10.18	-11.46/-13.22	-15.98/-18.32	-18.67/-17.71	-18.06/-17.02	-14.71/-13.77
Θ(180°)	-11.92/-11.7	-11.58/-11.47	-11.47/-11.61	-11.93/-12.33	-12.82/-13.48	-14.5/-15.83	-17.63/-17.68	-17.9/-18.01	-18.38/-19.17	-18.12/-18.51	-18.76/-18.7	-16.52/-14.32	-12.51/-11.13	-10.06/-9.42	-8.89/-8.47	-8.17/-8.06	-8.23/-8.71	-9.58/-11.07	-13.13/-15.83	-18.55/-18.02	-18.61/-18.99	-17.81/-17.41	-15.4/-13.82	-12.88/-12.3
52GPaol	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°)	-3.88/-4	-3.3/-2.94	-3.41/-3.98	-4.72/-4.53	-6.21/-7.47	-9.1/-12.07	-16.16/-18.12	-18.1/-16.48	-12.1/-9.84	-8.16/-6.41	-5.34/-4.73	-4.1/-3.65	-3.07/-2.94	-3.24/-3.4	-3.54/-3.8	-3.82/-4.23	-5.2/-6.64	-6.69/-11.08	-15.95/-15.81	-18.27/-18.36	-15.47/-11.81	-9.67/-7.61	-5.83/-4.98	-4.06/-3.5
Θ(7.5°)	-4.7/-4.6	-4.51/-4.56	-5.21/-6.15	-6.75/-7.16	-7.7/-8.68	-10.46/-12.52	-14.03/-15.98	-19.31/-18.93	-17.49/-15.21	-11.96/-8.57	-6.31/-4.79	-3.59/-3.02	-2.79/-2.94	-3.41/-4.02	-4.82/-5.65	-6.38/-7.91	-8.72/-9.51	-11.17/-12.48	-13.78/-15.61	-17.99/-18.81	-15.48/-12.18	-10.53/-9.16	-8.08/-7.33	-5.66/-4.55
Θ(15°)	-11.63/-10.86	-9.17/-7.28	-6.7/-6.99	-6.54/-6.77	-7.91/-9.21	-10.91/-14.22	-17.91/-16.96	-13.89/-11.71	-8.82/-9.49	-6.82/-9.47	-10.27/-9.23	-6.56/-4.37	-3.2/-2.5	-2.64/-3.65	-5.59/-7.75	-8.85/-9.27	-8.88/-8.34	-11.47/-11.48	-14.46/-17.75	-19.39/-17.88	-18.15/-18.25	-17.24/-17.99	-16.66/-18.74	-16.33/-13.3
Θ(22.5°)	-11.54/-10.85	-8.35/-6.26	-5.96/-6.82	-7.13/-7.57	-9.1/-7.3	-15.34/-18.11	-18.34/-17.83	-17.77/-14.24	-12.97/-12.85	-11.93/-10.75	-10.36/-11.59	-13.51/-9.84	-5.87/-4.01	-4.45/-6.3	-8.92/-9.1	-7.29/-6	-5.73/-6.77	-8.91/-12.41	-18.44/-17.4	-18.1/-18.81	-17.03/-15.34	-13.64/-11.72	-12.68/-19.31	-18.59/-15.07
Θ(30°)	-9.31/-8.24	-7.23/-5.83	-5.54/-6.22	-7.08/-7.28	-8.35/-11.47	-17.42/-18.17	-18.49/-13.98	-14.38/-10.63	-9.37/-8.57	-8.04/-10.6	-14.67/-13.65	-11.07/-12.47	-18.2/-11.32	-11.71/-19.86	-16.36/-11.33	-9.17/-6.73	-7.31/-9.74	-11.66/-16.2	-19.11/-18.12	-19.07/-18.32	-16.91/-18.45	-18.23/-14.55	-10.89/-9.52	
Θ(37.5°)	-9.52/-8.07	-9.17/-7.38	-6.96/-8.34	-7.88/-6.28	-7.2/-10.01	-15.09/-17.69	-16.27/-17.07	-18.82/-18.91	-17.48/-14.44	-9.7/-8.77	-7.72/-10.49	-8.47/-8.01	-13.5/-10.92	-10.8/-18.11	-13.61/-13.93	-18.58/-18.75	-18.32/-17.42	-18.13/-17.36	-17.07/-17.88	-14.13/-11.88	-10.06/-8.32	-10.16/-11.12	-12.74/-18.7	-18.97/-12.24
Θ(45°)	-17.71/-17.14	-9.51/-7.87	-7.41/-8.83	-10.17/-10.29	-10.02/-11.42	-14.44/-19.03	-14.09/-16.32	-18.21/-15.24	-15.37/-13.31	-13.9/-3.8	-5.26/-5.57	-5.41/-3.93	-8.41/-13.67	-12.28/-18.32	-13.24/-16.78	-18.1/-14.51	-14.41/-14.95	-14.74/-18.06	-13.35/-9.97	-11.64/-13.17	-16.32/-19.98	-17.81/-12.64	-10.29/-12.15	-19.03/-16.63
Θ(52.5°)	-17.38/-16.69	-11.06/-13.84	-16.44/-17.35	-15.78/-10.4	-7.59/-10.61	-17.61/-18.86	-12.71/-19.47	-14.19/-10.25	-11.05/-11.22	-13.31/-16.56	-7.41/-4.95	-6.53/-7.8	-14.56/-16.4	-12.05/-6.67	-7.77/-12.21	-10.93/-10.35	-10.34/-10.26	-19.26/-14.49	-11.82/-10.75	-10.82/-16.83	-18.32/-19.16	-12.32/-8.07	-6.36/-8.52	-12.41/-17.93
Θ(60°)	-17.96/-10.62	-7.14/-15.76	-13.35/-12.53	-12.3/-10.14	-6.2/-11.31	-15.09/-17.69	-16.1/-19.47	-18.33/-10.6	-8.63/-13.21	-14.04/-15.08	-8.84/-8.6	-7.95/-9.04	-17.43/-7.72	-5.79/-4.25	-4.87/-6.87	-7.97/-9.19	-7.63/-7.52	-11.16/-16.74	-10.4/-13.56	-14.24/-18.68	-18.81/-18.1	-11.88/-9.27	-8.99/-13.45	-8.23/-19.08
Θ(67.5°)	-18.59/-10.48	-8.96/-12.57	-11.44/-15.69	-17.86/-17.53	-7.																			



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

Θ(67.5°)	-1.42/-0.45	0.79/-1.83	-2.84/-2.23	0.57/-1.79	-8.41/-9.83	-10.4/-7.81	-4.52/-2.11	-1.5/-2.29	-4.91/-6.08	0.31/-1.4	-1.93/-3.55	-3.84/-1.55	0.41/-0.27	-4.42/-10.57	-2.76/-3.42	5.01/4.34	3.12/3	3.21/63	-2.86/-5.51	-0.09/-1.24	3.44/4.19	2.19/-0.78	-1.7/-0.12	0.24/-0.48
Θ(75°)	-2.2/0.67	0.24/-0.42	-1.73/-2.29	1.47/-1.56	-5.68/-8	-10.85/-3.55	-2.83/-1.82	-1.26/-2.24	-4.74/-7.23	-1.1/-1.22	-3.15/-5.95	-5.51/-2.79	-1.19/-0.61	-3.27/-10.99	-3.22/-3.33	4.74/0.7	2.91/3.22	2.57/-0.5	-7.65/-4.1	1.12/1.54	3.17/4.49	3.45/-1.02	-1.57/-2.48	-2.67/-2.49
Θ(82.5°)	-0.05/1	-1.31/0.36	-0.63/-1.77	-0.18/-3.19	-5.66/-7.69	-7.97/-2.3	-1.99/-1.67	-1.91/-2	-6.05/-8.72	-3.64/-1.5	-2.69/-6.81	-8.33/-5.71	-2.33/0.08	-3.4/-5.76	-1.69/0.05	3.37/2.58	1.63/64	2.17/-4.28	-9.81/-6.33	-1.34/-1.24	3.6145.22	4.31/1.88	-1.58/-3.63	-4.11/-3.43
Θ(90°)	-0.49/-2.46	-2.6/-0.03	-1.5/-1.55	3/-5.89	-8.52/-14.89	-10.93/-6.05	-3.05/-1.47	-2.81/-1.93	-4.99/-11.8	-7.7/-3.89	-2.96/-6.5	-8.91/-6.67	-4.79/-3.05	-5.97/-4.24	-2.22/2.45	2.34/0.94	1.66/8.83	1.47/-5.87	-6.23/-6.36	-5.26/-5.43	1.74/4.48	3.77/1.33	-4.31/-9.21	-6.01/-1.94
Θ(97.5°)	-2.72/-5.43	-3.37/-3.76	-2.3/-2.63	-2.64/-6.49	-10.65/-14.21	-9.09/-5.82	-4.02/-4.61	-6.09/-4.2	-6.51/-15.62	-8.31/-7.1	-6.14/-12.49	-9.56/-5.09	-5.22/-6.95	-9.01/-3.23	-1.78/-0.29	-0.38/-1.52	-0.17/-2.36	-0.38/-16.74	-5.94/-8.3	-6.31/-7.01	-0.43/-1.75	0.95/-1.42	-13.14/-7.77	-2.79/-1.62
Θ(105°)	-11.88/-3.31	-4.72/-7.8	-2.29/-3.49	-2.29/-5.58	-9.91/-11.23	-5.44/-3.69	-5.32/-9.3	-12.4/-7.11	-6.65/-15.67	-7.15/-18.34	-18.49/-5.53	-5.89/-10.81	-17.55/-4.27	-5.42/-5.65	-5.22/-5.92	-2.59/-0.72	-5.16/0.08	-8.08/-3.7	-2.44/-5.93	-5.26/-1.65	0.39/-0.87	-6.09/-6.24	-4.02/-5.79	
Θ(112.5°)	-6.87/-2.7	-9.39/-6.57	-4.42/-5.69	-3.09/-8.27	-6.68/-10.62	-6.36/-5	-8.65/-18.38	-11.13/-6.65	-17.09/-15.31	-12.39/-5.69	-8.83/-17.91	-19.36/-11.02	-5.68/-7.68	-12.87/-5.31	-6.75/-5.22	-7.75/-9.7	-6.25/-2.63	-12.98/-17.69	-14.93/-9.07	-6.38/-12.69	-13.86/-3.02	0.17/-0.89	-4.28/-5.34	-11.3/-17.06
Θ(120°)	-5.47/-4.01	-11.69/-6.09	-4.04/-6.16	-6.7/-7.8	-15.17/-13.1	-12.19/-18.34	-12.08/-12.09	-9.84/-5.96	-7.12/-9.91	-12.25/-11.79	-7.06/-3.8	-12.01/-7.03	-5.78/-5.24	-18.24/-3.23	-7.1/-8.57	-9.06/-9.84	-3.63/-2.82	-4.88/-7.78	-10.53/-7.99	-10.96/-17.95	-8.16/-2.92	0.43/-1.8	-10.35/-13.4	-6.88/-5.98
Θ(127.5°)	-7.71/-10.3	-9.88/-3.23	-4.63/-5.8	-5.97/-14.97	-14.45/-9.46	-10.43/-6.48	-5.72/-10.3	-9.06/-4.61	-4.68/-7.67	-8.1/-14.67	-12.67/-14.53	-6.87/-4.74	-8.97/-13.19	-13.1/-6.66	-10.94/-14.71	-9.49/-9.63	-6.2/-2.89	-4.75/-9.71	-11.39/-16	-16.45/-18.25	-16.72/-7.85	-2.94/-2.84	-5.12/-6.36	-9.83/-10.86
Θ(135°)	-11.55/-13.77	-6.55/-8.31	-13.68/-7.68	-7.54/-14.1	-10.47/-15.1	-11.83/-6.37	-7.31/-8.98	-10.01/-11.22	-12.28/-11.72	-8.26/-12.25	-15.37/-12.03	-11.58/-3.45	-9.15/-18.48	-8.61/-7.02	-12.46/-17.81	-18.82/-10.77	-6.1/-8.7	-18.11/-14.95	-14.61/-7.73	-9.18/-14.86	-10.67/-7.73	-6.74/-6.03	-4.9/-3.8	-4.52/-4.01
Θ(142.5°)	-16.99/-4.37	-5.71/-14.83	-6.58/-7.75	-16.3/-10.59	-8.6/-6.36	-6.19/-5.91	-7.75/-11.97	-15.27/-14.07	-16.68/-5.99	-5.62/-14.03	-8.68/-11.95	-10.81/-6.3	-14.07/-12.74	-8/-6.91	-17.85/-10.73	-7.64/-7.46	-5.12/-8.34	-18.69/-10.86	-8.18/-7.16	-8.82/-12.6	-9.97/-6.79	-5.3/-8.71	-16.87/-10.91	
Θ(150°)	-18.53/-13.94	-11.29/-7.27	-7.88/-18.14	-10.63/-7.29	-5.34/-5.53	-4.74/-4.68	-7.77/-13.4	-17.61/-7.96	-12.3/-10.86	-17.13/-7.56	-5.39/-8.56	-16.65/-17.78	-18.96/-13.54	-8.93/-4.92	-16.93/-15.2	-12.96/-18.56	-13.11/-14.26	-11.39/-12.81	-11.19/-7.01	-7.42/-15.9	-15.9/-10.53	-9.17/-8.66	-7.53/-7.63	-10.68/-19.15
Θ(157.5°)	-18.31/-19.12	-11.62/-10.28	-14.37/-13.79	-8.26/-8.04	-9.42/-10.57	-13.96/-18.52	-17.46/-16.68	-13.5/-14.59	-15.21/-13	-10.19/-8.69	-11.11/-13.06	-13.12/-14.48	-18.34/-18.66	-12.72/-8.79	-8.93/-14.31	-18.46/-12.99	-9.94/-11.3	-18.82/-16.91	-10.65/-7.84	-6.69/-8.06	-11.62/-10.68	-7.91/-7.81	-8.39/-10.18	-16.62/-18.75
Θ(165°)	-13.82/-15.57	-16.77/-19.92	-18.16/-18.3	-7.69/-8.04	-11.22/-15.72	-10.97/-8.76	-6.95/-8.68	-8.22/-9.84	-10.21/-9.43	-9.56/-11.73	-15.24/-18.06	-18.69/-17.85	-18.38/-18.01	-17.6/-16.96	-18.27/-19.06	-12.69/-10.13	-8.44/-6.22	-10.42/-13.96	-18.81/-18.05	-18.75/-14.44	-12.21/-11.76	-11.69/-11.27	-10.71/-11.21	
Θ(172.5°)	-16.83/-16.63	-15.24/-12.99	-10.22/-8.68	-8.65/-9.92	-13.33/-18.51	-19.27/-18.33	-17.54/-14.86	-12.07/-11.48	-11.67/-11.89	-10.99/-10.66	-10.73/-11.2	-11.38/-10.94	-10.33/-9.873	-9.18/-10.22	-11.63/-12.38	-13.05/-15.27	-17.96/-18.5	-17.79/-18.6	-18.78/-18.37	-18.55/-17.77	-18.29/-19.15	-17.62/-17.88	-17.62/-19.18	-18.55/-17.13
Θ(180°)	-18.58/-18.02	-18.39/-18.78	-14.82/-12.17	-11.49/-11.24	-11.6/-12.54	-11.59/-10.18	-9.28/-9.71	-11.06/-12.69	-13.98/-14.5	-15.56/-17.65	-19.87/-18.2	-17.97/-18.96	-18.98/-18.29	-18.78/-17.61	-17.91/-15.99	-14.82/-15.06	-16.53/-16.96	-16.82/-16.38	-14.29/-11.56	-11.38/-11.85	-11.52/-9.88	-9.01/-9.67	-11.81/-16.61	-19.22/-18.8
Freq(Hz)	5.6GPol.	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°)	-3.95/-4.57	-4.84/-5.3	-7.32/-9.32	-11.2/-13.11	-14.4/-15.86	-16.26/-14.55	-18.19/-12.22	-9.77/-8.71	-9.44/-10.19	-8.29/-6.75	-6.62/-6.5	-6.57/-6.52	-7.27/-7.18	-6.98/-7.57	-7.81/-8.04	-8.19/-8.97	-10.7/-11.58	-12.96/-13	-11.89/-10.93	-8.62/-7.44	-6.46/-5.26	-4.39/-4.35	-4.39/-3.98	-3.52/-3.55
Θ(7.5°)	-3.46/-3.17	-2.97/-2.97	-3.38/-4.01	-4.7/-5.75	-6.93/-8.79	-10.83/-12.44	-13.74/-13.73	-10.12/-8.75	-8.92/-9	-7.33/-6.37	-6.41/-6.18	-6.22/-6.49	-6.82/-7.07	-7.68/-8.64	-8.04/-9.48	-10.03/-11.35	-12.23/-12.05	-11.10/-10.77	-10.05/-8.99	-9.18/-9.12	-8.93/-11.26	-10.49/-8.16	-6.27/-5.35	-4.4/-3.76
Θ(15°)	-5.99/-5.08	-4.29/-4.53	-5.83/-7.13	-8.46/-10.4	-11.55/-11	-10.92/-11.41	-12.62/-13.06	-11.16/-12.16	-14.49/-17.83	-18.09/-17.36	-14.62/-10.64	-9.76/-6.69	-6.56/-7.1	-7.86/-8.66	-8.76/-9.63	-12.70/-16.31	-5.76/-6.19	-6.92/-7.23	-7.45/-6.6	-7.96/-9.8	-16.91/-16.31	-16.91/-15.35	-16.41/-16.99	-14.71/-8.91
Θ(22.5°)	-6.25/-5.68	-5.01/-5.35	-5.31/-5.01	-5.57/-7.87	-13.82/-19.11	-19.37/-15.06	-15.61/-18.67	-17.9/-16.77	-19.04/-17.04	-18.57/-17.88	-18.37/-11.05	-7.06/-5.08	-5.28/-6.04	-7.44/-7.91	-6.97/-6.25	-6.6/-6.56	-5.85/-6.08	-6.12/-7.13	-7.58/-6.74	-7.54/-11.45	-18.56/-17.32	-12.54/-11.21	-14.05/-18.03	-18.49/-10.17
Θ(30°)	-6.48/-5.05	-4.84/-4.8	-4.68/-4.91	-6.64/-8.96	-11.14/-12.32	-15.54/-16.65	-14.35/-14.79	-18.55/-12.01	-10.3/-13.93	-15.71/-18.98	-16.28/-10.69	-8/-7.31	-7/-7.89	-10.04/-11.54	-8.52/-7.12	-7.88/-8.73	-8.76/-9.2	-7.29/-6.5	-8.62/-9.62	-10.15/-13.62	-11.51/-11.36	-13.81/-14.48	-13.77/-18.64	-18.96/-10.25
Θ(37.5°)	-9.86/-8.99	-7.96/-7.83	-6.63/-6.28	-9.57/-12.1	-11.78/-8.84	-9.39/-16.99	-15.82/-12.52	-19.08/-18.45	-15.47/-13.67	-19.11/-9.88	-10.74/-18.81	-12.41/-9.86	-10.51/-9.82	-13.13/-18.83	-11.19/-9	-10.54/-10.33	-10.35/-14.64	-9.32/-6.32	-9.67/-17.12	-13.78/-8.64	-7.68/-12.9	-16.81/-18.4	-12.53/-12.78	-18.29/-11.62
Θ(45°)	-18.59/-14.64	-13.51/-10.41	-7.94/-9.18	-16.26/-17.93	-19.15/-12.45	-10.85/-15.29	-12.37/-12.59	-18.57/-11.54	-10.14/-10.72	-14.13/-16.65	-9.65/-9.65	-11.01/-6.92	-5.59/-8.19	-10.94/-12.78	-12.27/-18.36	-18.07/-17.46	-15.23/-14.29	-13.88/-16.66	-15.34/-10.58	-7.91/-6.92	-13.47/-16.17	-12.76/-19.08	-14.32/-18.91	-12.1/-14.35
Θ(52.5°)	-17.89/-13.87	-9.28/-9.41	-5.66/-7.81	-12.96/-16.36	-11.76/-18.98	-18.11/-18.21	-15.8/-13.34	-17.49/-8.52	-9.66/-9.97	-11.61/-13.85	-7.62/-9.11	-9.49/-4.72	-9.42/-11.07	-13.46/-9	-9.97/-17.68	-17.49/-16.29	-18.38/-19.03	-14.84/-18.36	-17.67/-10.66	-5.26/-6.75	-12.68/-9.01	-12.01/-17.59	-18.72/-16.99	-12.1/-14.78
Θ(60°)	-17.28/-17.93	-8.88/-5.54	-9.81/-6.03	-6.34/-8.55	-9.77/-10.63	-13.3/-18.04	-18.65/-15.91	-13.71/-13.45	-9.41/-17.93	-18.28/-8.62	-8.52/-8.64	-8.87/-8.53	-11.17/-19.07	-9.3/-6.2	-9.42/-9.19	-9.18/-11.24	-15.15/-17.09	-9.46/-12.46	-18.86/-11.22	-7.69/-11.27	-13.28/-16.46	-17.5/-18.95	-18.02/-9.84	-5.97/-9.98
Θ(67.5°)	-10.47/-2.5	-6.26/-6.43	-8.18/-8.8	-8.98/-10.57	-3.98/-12	-11.13/-17.98	-18.77/-16.53	-16.88/-10.68	-9.94/-17.93	-14.44/-8.95	-7.28/-8.41	-10.25/-10.99	-12.66/-13.88	-9.04/-6.04	-8.46/-7.12	-11.44/-11.93	-9.55/-15.95	-8.74/-14.33	-18.28/-8.66	-10.99/-13.76	-14.63/-18.88	-12.88/-12.69	-11.6/-9.17	-13.9/-13.12
Θ(75°)	-15.22/-5.95	-5.92/-5.93	-8.92/-11.73	-18.24/-14.77	-10.68/-16.71	-11.31/-18.05	-18.17/-18.41	-17.54/-16.72	-10.46/-19.42	-12.24/-8.04	-7.28/-7.92	-9.61/-15.44	-8.35/-8.88	-3.87/-6.4	-5.9/-7.73	-14.02/-16.96	-8.07/-13.29	-8.96/-18.98	-17.78/-11.37	-17.07/-19.13	-18.99/-12.27	-10.63/-9.47	-9.15/-9.05	-11.11/-12.36
Θ(82.5°)	-13.94/-7.6	-11.88/-11.67	-9.09/-11.43	-18.92/-18.06	-15.43/-19.05	-13.6/-17.9	-18.42/-17.94	-18.72/-18.5	-14.63/-12.31	-13.73/-12.01	-6.59/-8.33	-10.46/-8.95	-2.8/-6.61	-7.39/-9.29	-5.31/-9.53	-17.97/-19.03	-9.26/-13.9	-11.75/-18.22	-14.62/-8.82	-13.69/-18.4	-9.06/-6.73	-7.97/-9.93	-12.06/-10.11	-10.36/-9.86
Θ(90°)	-12.01/-8.18	-13.21/-12.25	-14.26/-18.09	-12.52/-18.93	-14.98/-18.8	-11.37/-17.56	-18.84/-18.41	-17.24/-17.62	-18.01/-9.92	-11.14/-12.26	-8.28/-8.34	-9.93/-16.24	-5.91/-7.41	-7.24/-9.68	-17.77/-12.72	-15.72/-16.92	-10.83/-11.06	-11.43/-18.78	-18.3/-9.32	-16.21/-18.28	-10.31/-10.03	-11.87/-13.06	-11.92/-9.56	-12.97/-11.66
Θ(97.5°)	-11.48/-9.51	-9.31/-12.89	-17.81/-18.49	-7.89/-15.67	-17.58/-18.47	-17.1/-17.93	-16.55/-17.1	-17.15/-17.74	-15.34/-10.9	-9.29/-13	-7.85/-12.39	-15.32/-15.75	-7.37/-9.66	-10.61/-10.48	-9.12/-16.18	-13.43/-15.02	-11.77/-19.18	-11.34/-18.21	-14.72/-11.19	-17.63/-19.07	-11.03/-12.41	-12.15/-12.8	-13.18/-12.49	-18.89/-17.58
Θ(105°)	-14.76/-12.89	-10.2/-11.35	-18.76/-17.88	-7.06/-6.81	-12.05/-19.22	-18.85/-16.08	-18.01/-17.4	-18.9/-16.46	-14.93/-11.6	-12.22/-10.78	-10.35/-14.71	-18.73/-17.53	-9.57/-10.04	-9.06/-15.11	-13.92/-17.35	-15.35/-10.61	-17.11/-17.75	-11.24/-15.88	-17.52/-15.81	-12.87/-18.98	-10.16/-18.43	-14.56/-15.82	-18.31/-18.96	-17.24/-15.6
Θ(112.5°)	-14.05/-10.72	-18.04/-13.91	-16.84/-11.68	-11.54/-10.81	-9.44/-17.98	-18.58/-18.01	-15.67/-19.31	-18.71/-12.4	-17.18/-15.08	-18.51/-8.8	-9.03/-12.04</													



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

Θ(120°)	-10.64/-8.43	-3.95/-4.3	-4.82/-6.51	-6.32/-7.3	-12.1/-10.9	-16.74/-15.88	-18.21/-12.92	-7.51/-8.66	-6.31/-10.13	-14.11/-8.5	-6.83/-18.87	-18.08/-10.45	-14.39/-11.42	-5.97/-5.76	-7.3/-11.64	-18.32/-6.34	-10.09/-13.88	-11.92/-3.49	-5.97/-5	-3.81/-8.48	-16.15/-10.49	-2.16/-3.47	-3.71/-3.52	-5.89/-10.93
Θ(127.5°)	-13.84/-10.14	-6.27/-4.66	-4.76/-7.78	-5.06/-8.04	-13.57/-17.91	-14.49/-9.64	-12.04/-13.99	-8.33/-8.82	-10.98/-14.64	-11.14/-9.46	-8.08/-16.53	-18.74/-18.59	-12.21/-8.86	-5.18/-4.53	-6.48/-14.85	-11.57/-12.11	-17.19/-12.76	-12.44/-7.79	-11.1/-5.3	-5.31/-7.12	-18.45/-5.58	-4.82/-3.18	-2.39/-5.18	-8.2/-10.48
Θ(135°)	-15.35/-10.27	-6.53/-5.62	-7.11/-9.62	-10.85/-18.72	-15.02/-14.82	-18.73/-10.43	-12.58/-13.74	-8.42/-11.1	-12.44/-12.78	-11.61/-10.12	-18.14/-18.37	-15.23/-8.61	-18.67/-11.52	-6.38/-5.53	-15.45/-15.88	-8.09/-12.95	-14.56/-16.81	-8.98/-3.97	-7.62/-7.38	-5.05/-9.42	-15.35/-15.74	-5.51/-2.26	-3.92/-5.29	-10.52/-8.29
Θ(142.5°)	-11/-10.24	-11.1/-10.21	-10.93/-11.59	-14.95/-12.71	-13.36/-18.18	-19.27/-11.84	-12.22/-14.75	-11.94/-10.68	-18.38/-10.13	-15.82/-14.31	-15.62/-16.49	-14.88/-16.35	-14.18/-9.99	-8.54/-7.66	-10.83/-10.06	-9.45/-18.82	-12.77/-17.4	-7.62/-9	-13.45/-8.39	-7.17/-7.96	-8.17/-9.53	-8.81/-7.87	-9.4/-11.08	-12.27/-12.56
Θ(150°)	-14.5/-10.33	-8.99/-8.29	-9.13/-10.81	-11.63/-13.99	-18.68/-19.05	-13.61/-9.1	-11.06/-12.75	-18.02/-18.06	-12.74/-11.87	-18.21/-16.65	-17.18/-18.38	-18.39/-18.98	-15.04/-14.13	-14.25/-9.38	-8.06/-13.26	-17.25/-17.64	-15.62/-12.74	-12.58/-15.63	-18.31/-11.09	-8.18/-9.94	-9.48/-8.43	-9.7/-9.04	-7.94/-10.7	-17.87/-18.17
Θ(157.5°)	-18.86/-16.21	-14.31/-12.2	-17.03/-18.88	-12.53/-12.17	-13.07/-10.51	-8.63/-8.55	-11.07/-15.66	-17.85/-18.6	-17.73/-14.4	-11.53/-14.12	-18.45/-14.15	-11.86/-15.85	-18.39/-19.03	-11.76/-14.77	-14.61/-18.82	-19.81/-12.91	-15.52/-17.41	-17.61/-14.48	-9.74/-11.53	-18.32/-17.53	-15.2/-14.5	-13.95/-12.33	-13.5/-18.97	
Θ(165°)	-13.83/-19.72	-19.27/-17.74	-17.38/-17.25	-17.99/-18.29	-17.17/-15.14	-12.16/-9.31	-8.61/-11.27	-14.06/-16.71	-17.93/-17.79	-18.31/-18.21	-16.76/-18.06	-18.72/-15.63	-11.83/-10.37	-11.96/-15.34	-18.07/-18.89	-18.98/-18.85	-17.86/-18.86	-17.86/-18.61	-18.11/-16.18	-12.01/-10.51	-11.33/-15.68	-17.49/-17.51	-16.43/-12.87	-10.85/-10.02
Θ(172.5°)	-17.41/-12.08	-11.87/-12.65	-12.64/-13.71	-14.73/-17.85	-18.02/-18.02	-13.32/-11.58	-12.58/-15.76	-16.41/-14.6	-13.28/-11.84	-11.72/-11.75	-12.48/-13.8	-14.27/-17.58	-14.7/-16.31	-17.96/-18.58	-19.04/-17.13	-13.59/-13.25	-13.35/-13.51	-13.4/-14.42	-14.63/-15.4	-17.72/-18.55	-18.84/-17.79	-17.11/-18.98		
Θ(180°)	-18.25/-18.59	-19.43/-19.38	-19.4/-17.03	-16.62/-16.88	-14/-10.74	-3.56/-9.06	-9.06/-9.19	-9.54/-9.67	-9.63/-9.54	-10.1/-10.96	-11.88/-13.78	-15.14/-17.25	-18.76/-14.94	-17.49/-16.34	-14.31/-13.41	-12.77/-13.02	-12.11/-12.52	-13.57/-15.39	-17.37/-18.36	-18.71/-18.38	-14.53/-15.23	-14.53/-15.23	-15.04/-14.31	
Freq(Hz)	2.450Pol.	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°)	-16.2/-14.68	-12.8/-10.81	-9.04/-7.8	-7.17/-6.86	-6.7/-6.56	-6.52/-6.61	-6.91/-7.37	-7.92/-8.4	-8.86/-9.51	-10.52/-12.2	-14.66/-17.1	-19.31/-19.51	-17.44/-15.38	-13.52/-11.77	-10.01/-8.82	-8.1/-7.59	-7.09/-6.69	-6.48/-6.57	-6.73/-6.72	-7.82/-9.05	-6.83/-7.13	-10.51/-12.73	-13.14/-25	-15.63/-16.51
Θ(7.5°)	-13.99/-13.31	-12.16/-10.7	-9.35/-8.32	-7.82/-7.63	-7.61/-7.44	-7.43/-7.64	-8.12/-8.73	-9.52/-10.26	-11.19/-12.1	-13.15/-15.01	-18.31/-18.94	-18.14/-18.85	-17.32/-14.38	-12.08/-10.05	-8.45/-7.31	-6.56/-6.04	-5.59/-5.24	-5.08/-5.23	-5.53/-5.89	-6.26/-6.67	-7.35/-8.59	-9.97/-11.28	-12.29/-13	-13.73/-14.08
Θ(15°)	-13.06/-12.19	-11.28/-10.27	-9.45/-8.76	-8.37/-8.16	-7.98/-7.75	-7.73/-8.09	-8.8/-8.61	-10.4/-11.21	-12.09/-12.63	-12.71/-12.84	-13.75/-15.16	-16.36/-16.8	-16.48/-14.81	-12.14/-9.76	-7.93/-6.71	-5.92/-5.35	-4.82/-4.4	-4.19/-4.29	-4.71/-5.37	-6.25/-7.29	-8.87/-11.18	-13.81/-16.19	-17.39/-18.63	-15.38/-14.07
Θ(22.5°)	-11.95/-11.27	-10.88/-10.71	-10.52/-10.08	-9.52/-8.89	-8.26/-7.66	-7.47/-7.72	-8.04/-7.98	-7.71/-7.59	-7.82/-8.3	-8.64/-8.88	-10.36/-11.66	-13.81/-15.4	-13.61/-10.43	-8.07/-6.57	-5.69/-5.16	-4.81/-4.56	-4.3/-4.26	-4.57/-5.39	-6.77/-8.75	-11.57/-15.16	-17.14/-16.71	-15.89/-15.02	-13.85/-12.81	
Θ(30°)	-10.57/-10.28	-11.35/-13.28	-14.98/-15.25	-14.09/-12.01	-10.08/-8.72	-8.11/-7.96	-7.51/-6.47	-5.36/-4.81	-4.97/-5.69	-6.67/-7.57	-8.23/-8.66	-9.33/-10.56	-12.93/-17.96	-18.49/-14.08	-9.19/-6.8	-5.71/-5.41	-5.53/-5.7	-5.62/-5.44	-5.55/-6.24	-7.79/-10.32	-13.81/-15.45	-13.52/-11.94	-11.42/-11.62	-11.95/-11.48
Θ(37.5°)	-10.24/-10.02	-12.29/-18.28	-18.64/-18.39	-18.75/-19.32	-13.88/-11.1	-9.95/-9.14	-7.75/-5.98	-4.57/-3.98	-4.25/-5.15	-6.45/-7.74	-8.68/-9.54	-10.92/-13.27	-16.41/-19.72	-18.19/-15.43	-9.52/-6.77	-5.57/-5.39	-5.91/-5.66	-7.02/-7.25	-7.32/-7.76	-9.09/-11.65	-14.12/-14.34	-11.57/-10.69	-10.73/-11.45	-12.28/-11.76
Θ(45°)	-11.37/-10.88	-13.28/-18.07	-17.65/-17.49	-18.61/-17.55	-18.76/-19.35	-18.04/-16.06	-14.91/-11.87	-9.18/-6.79	-5.07/-4.2	-4.22/-5.02	-6.44/-8.07	-9.41/-10.36	-12.22/-16.66	-17.79/-19.2	-16.37/-15.03	-6.49/-5.88	-6.22/-7.08	-6.99/-8.99	-11.23/-14.13	-16.36/-14.63	-12.56/-12.08	-12.54/-13.61	-14.68/-13.94	
Θ(52.5°)	-14.56/-13.53	-14.72/-18.68	-18.5/-16.78	-16.17/-19.36	-18.41/-18.74	-18.35/-16.51	-11.71/-8.81	-6.82/-5.59	-5.31/-6.1	-7.52/-9.05	-10.31/-11.38	-13.91/-18.04	-18.31/-16.61	-16.34/-16.59	-14.69/-11.18	-8.71/-7.3	-7.08/-7.97	-9.97/-11.3	-10.95/-11.36	-13.44/-17.82	-17.97/-18.83	-16.42/-16.25	-16.91/-16.83	-17.44/-17.51
Θ(60°)	-18.4/-15.04	-14.17/-17.5	-17.88/-16.61	-14.35/-15.63	-18.56/-18.24	-18.16/-18.81	-15.54/-12.14	-10.05/-8.23	-7.57/-8.5	-9.77/-10.26	-10.67/-11.21	-13.07/-18.53	-18.75/-19.04	-18.91/-18	-18.27/-15.13	-12.27/-9.72	-8.47/-9.4	-13.05/-14.43	-12.34/-13.06	-15.82/-18.35	-19.23/-17.67	-17.71/-18.75	-15.89/-17.51	-17.81/-18.08
Θ(67.5°)	-19.2/-14.93	-14.35/-18.03	-18.61/-15.5	-13.65/-14.79	-18.06/-18.87	-18.43/-17.78	-16.94/-18.51	-13.06/-11.05	-10.81/-12.94	-13.06/-12.49	-13.33/-13.01	-14.24/-19.36	-18.93/-18.09	-18.47/-18.25	-19.05/-17.83	-16.03/-11.48	-8.85/-9.83	-15.94/-17.95	-14.51/-17.16	-18.47/-18.4	-15.93/-17.61	-18.08/-17.19	-15.88/-19	-18.88/-18.5
Θ(75°)	-19.04/-17.25	-16.81/-16.7	-16.47/-13.61	-12.12/-13.74	-16.56/-16.63	-17.75/-18.74	-19.12/-17.96	-18.94/-16.65	-16.44/-18.44	-12.72/-11.23	-13.34/-15.42	-18.65/-17.85	-15.87/-17.58	-18.58/-18.95	-18.22/-18.83	-17.87/-16.7	-10.62/-10.72	-17.95/-17.67	-15.52/-18.5	-18.61/-18.51	-18.72/-18.28	-19.64/-17.93	-18.07/-17.95	-18.63/-18.2
Θ(82.5°)	-18.84/-18.69	-16.15/-13.21	-13.51/-12.97	-11.67/-12.66	-14.47/-14.5	-15.27/-19.14	-17.62/-18.18	-18.73/-18.1	-18.29/-17.93	-12.22/-12.78	-14.95/-14.34	-17.61/-16.23	-13.04/-17.12	-18.58/-15.22	-18.37/-18.76	-18.09/-18.94	-12.86/-11.97	-18.64/-19.77	-15.78/-17.81	-18.06/-17.6	-19.04/-18.02	-18.67/-18.8	-17.71/-17.76	-19.18/-19.16
Θ(90°)	-18.09/-17.19	-17.12/-14.07	-14.4/-14.24	-12.42/-13.39	-16.42/-16.63	-16.81/-18.53	-17.64/-18.51	-17.78/-17.46	-16.26/-14.39	-9.84/-11.74	-18.92/-15.66	-17.35/-18.31	-13.59/-14.82	-19.22/-13.16	-14.83/-17.95	-15.05/-18.3	-14.12/-10.84	-16.29/-18.56	-18.53/-18.97	-16.04/-13.31	-16.88/-18.57	-18.13/-14.48	-15.15/-15.68	-18.38/-18.04
Θ(97.5°)	-18.36/-18.92	-19.04/-14.63	-14.63/-13.94	-12.06/-13.33	-15.37/-14.96	-16.54/-19.1	-19.07/-18.95	-18.27/-17.81	-17.86/-13.18	-9.09/-12.51	-17.49/-14.42	-19.35/-17.28	-11.15/-13.84	-18.58/-12.19	-15.46/-19.21	-14.39/-19.1	-15.02/-12.23	-19.07/-19.17	-17.48/-18.26	-15.62/-13.24	-17.38/-18.99	-16.12/-14.69	-12.61/-13.64	-18.03/-17.52
Θ(105°)	-19.26/-18.62	-16.24/-13.87	-14.47/-18.25	-10.85/-12.24	-14.64/-15.51	-18.22/-18.21	-16.98/-16.68	-17.95/-18.62	-18.88/-13.79	-8.96/-15.22	-17.51/-11.6	-14.08/-17.81	-13.04/-10.65	-14.88/-14.03	-11.33/-18.75	-16.17/-16.76	-17.41/-13.1	-17.76/-19.11	-15.59/-17.69	-15.62/-16.68	-16.38/-18.74	-16.08/-13.74	-11.43/-12.28	-17.09/-18.52
Θ(112.5°)	-15.47/-18.39	-16.89/-13.5	-12.43/-10.22	-9.97/-10.02	-11.62/-11.41	-12.42/-15.04	-17.51/-19.47	-18.93/-19.15	-16.22/-10.89	-8.12/-13.23	-17.55/-12.49	-18.72/-14.62	-9.17/-10.7	-14.48/-9.91	-17.22/-18.46	-16.79/-14.67	-16.62/-14.35	-12.04/-17.74	-18.14/-14.14	-16.82/-17.21	-18.99/-15.05	-11.38/-10.98	-13.55/-16.4	
Θ(120°)	-16.48/-17.92	-14.18/-12.98	-13.87/-11.15	-9.19/-10.51	-13.21/-13.8	-14.76/-18.15	-18.36/-17.33	-12.88/-12.51	-18.07/-14.4	-9.92/-14.3	-19.35/-12.37	-17.68/-16.82	-9.59/-10.77	-15.45/-10.95	-11.11/-17.61	-18.21/-17.95	-15.69/-13.07	-17.42/-16.38	-11.67/-14.53	-17.34/-13.16	-13.75/-17.73	-16.52/-11.43	-8.62/-8.41	-10.48/-13.96
Θ(127.5°)	-15.96/-15.15	-16.28/-18.94	-17.14/-14.204	-8.88/-10.73	-11.63/-9.23	-8.44/-10.29	-14.23/-14.82	-11.42/-11.16	-16.85/-18.54	-16.58/-19.99	-16.26/-12.37	-18.52/-18.2	-12.74/-15.11	-17.57/-13.96	-15.71/-19.14	-17.83/-18.07	-15.17/-13.04	-17.81/-16.7	-12.68/-15.88	-17.78/-15.09	-14.64/-18.41	-17.39/-14.79	-11.11/-10.58	-12.19/-14.46
Θ(135°)	-17.69/-17.45	-18.62/-17.68	-10.95/-7.94	-7.72/-9.59	-9.88/-7.55	-7.17/-9.56	-16.44/-17.32	-13.29/-12.5	-16.45/-19.18	-18.68/-18.06	-19.37/-15.59	-19.46/-19.04	-17.78/-17.28	-14.51/-14.82	-14.81/-14.46	-17.17/-14.21	-11.47/-13.37	-19.06/-18.49	-13.28/-12.28	-14.77/-16.17	-13.97/-12.32	-12.67/-14.47		
Θ(142.5°)	-17.51/-18.31	-18.54/-15.07	-11.62/-9.78	-10.36/-12.37	-10.97/-8.4	-10.71/-10.89	-14.92/-18.07	-13.26/-12.79	-17.18/-18.52	-19.32/-18.1	-18.53/-18.4	-17.61/-19.3	-17.99/-17.67	-15.16/-16.82	-19.21/-14.98	-11.55/-12.27	-14.81/-18.9	-15.13/-12.63	-11.06/-12.22	-16.91/-17.65	-11.84/-8.46	-9.59/-11.47	-13.91/-15.36	-16.77/-19.57
Θ(150°)	-18.47/-17.8	-17.6/-17	-15.13/-13.95	-14.56/-18.7	-10.49/-8.08	-7.76/-9.81	-15.74/-13.33	-16.08/-13.53	-14.76/-18.44	-18.86/-18.63	-19.1/-18.4	-18.72/-18.19	-16.02/-13.09	-12.12/-19.2	-14.43/-13.02	-11.42/-12.68	-16.71/-16.8	-12.18/-9.73	-9.29/-11.1	-16.02/-18.4	-14.16/-10.24	-8.82/-18.2	-10.56/-12.7	-15.24/-17.78
Θ(157.5°)	-16.05/-16.24	-16.51/-15.81	-14.57/-14.14	-14.19/-13.22	-11.36/-9.82	-9.69/-11.49	-15.95/-17.78	-18.53/-17.17	-16.97/-18.94	-19.15/-19	-18.35/-18.73	-18/-16.86</												



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

Θ(172.5°)	-11.25/-13.59	-14.74/-13.8	-17.57/-14.73	-11.61/-13.57	-14.11/-9.42	-7.23/-7.42	-9.42/-10.9	-12.72/-15.59	-17.07/-18.35	-17.76/-15.52	-16.27/-16.47	-14.41/-13.41	-15.07/-14.95	-15.01/-15.83	-18.59/-18.84	-17.74/-18.6	-14.73/-12.15	-9.79/-9.15	-9.05/-8.71	-8.9/-9.72	-10.25/-9.93	-10.63/-12.19	-12.21/-16.21	-11.95/-11.59
Θ(180°)	-15.57/-15.27	-13.08/-12.23	-11.93/-12.12	-13.86/-17.23	-10.06/-6.89	-7.45/-9.1	-9.25/-9.73	-9.98/-9.9	-11.1/-12.79	-13.69/-14.11	-15.77/-16.24	-13.12/-13.59	-14.74/-13.84	-14.3/-14.15	-13.97/-14.6	-13.86/-12.19	-10.96/-10.93	-11.48/-11.71	-11.22/-10.87	-11.41/-12.4	-12.43/-12.47	-13.56/-15.02	-16.85/-18.27	-18.19/-18.95
Freq(Hz)	5.3GPol.	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°)	-18.54/-15.94	-14.7/-13.1	-12.5/-10.66	-8.72/-7.07	-5.71/-4.99	4.51/-4.22	-4.36/-4.6	-4.95/-5.23	-5.72/-6.04	-6.47/-7.16	-8.8/-11.26	-12.74/-13.88	-17.51/-18.89	-19.61/-16.32	-13.43/-11.08	-9.48/-7.93	-6.88/-5.68	-6.06/-5.66	-4.48/-4.16	-4.64/-5.3	-6.19/-6.55	-6.92/-7.21	-8.65/-12.73	-15.39/-16.98
Θ(7.5°)	-18.85/-16.1	-14.57/-12.44	-12.2/-12.02	-10.82/-8.67	-7.63/-6.65	-6.22/-6.15	-7.61/-7.89	-7.74/-8.22	-9.87/-11.76	-13.96/-17.26	-17.93/-18.49	-19.51/-14.89	-12.23/-9.68	-8.02/-7.33	-6.69/-5.81	-5.42/-5.53	-5.74/-5.69	-5.18/-5.37	-6.23/-6.46	-6.23/-6.46	-8.27/-8.01	-8.68/-11.93	-15.51/-18.21	-
Θ(15°)	-17.95/-19.05	-13.83/-7.85	-6.05/-5.37	-5.32/-5	-5.92/-6.87	-8.17/-9.07	-10.4/-11.51	-14/-19.18	-17.49/-18.85	-15.98/-13.82	-12.69/-11.76	-10.49/-11.17	-13.3/-14.49	-14.93/-13.89	-12.71/-12.63	-10.64/-9.34	-8.43/-8.54	-8.46/-7.54	-7.01/-7.32	-8.14/-8.81	-10.02/-12.21	-13.67/-12.07	-12.15/-12.75	-13.78/-16.41
Θ(22.5°)	-12.86/-17.4	-13.44/-8.68	-6.69/-5.54	-4.79/-4.28	-5.11/-6.06	-5.56/-7.33	-10.37/-15.39	-18.99/-15.67	-15.35/-18.32	-18.94/-18.03	-15.19/-11.8	-10.38/-10.75	-15.1/-16.16	-18.7/-19.38	-17.11/-14.74	-12.36/-12	-14.7/-17.94	-15.69/-13.34	-12.1/-12.42	-12.38/-11.18	-11.25/-14.11	-19.02/-19.02	-14.71/-10.83	-9.41/-9.88
Θ(30°)	-6.32/-6.76	-10.6/-17.99	-13.44/-10.53	-8.47/-6.67	-5.56/-4.2	-4.23/-6.41	-10.29/-10.58	-9.69/-10.76	-14.35/-13.87	-9.12/-8.71	-10.37/-15.2	-13.51/-11.29	-14.72/-19.37	-14.65/-19.07	-15.72/-13.06	-14.55/-14	-18.71/-18.58	-17.44/-12.45	-12.06/-15.49	-13.98/-11.19	-10.54/-11.91	-14.22/-14.13	-18.49/-14.35	-9.66/-7.47
Θ(37.5°)	-9.33/-7.84	-11.92/-17.38	-10.49/-6.99	-5.13/-5.28	-5.9/-4.85	-3.12/-3.17	-4.83/-6.51	-8.59/-11.19	-11.28/-10.36	-10.74/-10.48	-7.29/-12.93	-16.37/-10.73	-12.59/-17.46	-16.86/-18.88	-10.03/-9.34	-18.66/-19.15	-18.93/-18.19	-14.39/-10.2	-8.31/-7.9	-6.63/-6.8	-10.21/-13.87	-9.83/-8.59	-14.29/-16.6	-9.7/-10.65
Θ(45°)	-14.36/-17.86	-17.48/-14.53	-9.78/-6.22	-5.34/-5.72	-4.68/-3.12	-2.82/-2.97	-4.83/-6.16	-6.44/-8.42	-8.9/-10.88	-12.34/-14.45	-10.99/-14.22	-16.33/-16.14	-14.33/-17.58	-15.04/-17.86	-11.98/-9.05	-15.74/-18.23	-14.63/-10.58	-7.61/-7.86	-6.07/-6.22	-6.81/-7.57	-10.56/-9.92	-9.37/-7.99	-8.86/-12.92	-12.9/-11.2
Θ(52.5°)	-12.72/-15.96	-17.43/-15.8	-10.59/-11.27	-2.68/-6.69	-6.74/-4.61	-4.3/-3.72	-4.04/-6	-7.2/-12.74	-12.37/-13.37	-14.61/-16.28	-13.71/-19.15	-17.15/-19.1	-9.72/-9.78	-12.47/-13.64	-12.85/-18.62	-18.62/-18.75	-7.9/-4.88	-4.47/-5.37	-4.94/-5.9	-7.63/-9.09	-9.43/-8.91	-4.25/-8.27	-16.68/-11.57	-
Θ(60°)	-14.92/-17.46	-12.24/-12.68	-10.36/-14.74	-14.05/-15.29	-15.03/-8.37	-6.66/-6.71	-5.84/-6.75	-7.31/-9.6	-12.75/-17.54	-14.8/-15.13	-18.47/-16.85	-17.57/-13.95	-12.39/-11.83	-10.09/-7.54	-10.07/-13.15	-14.74/-19.1	-7.28/-3.33	2.78/-3.12	-4.48/-5.66	-9.29/-12.88	-13.38/-10.14	-7.68/-10.24	-5.13/-8.34	-13.51/-7.94
Θ(67.5°)	-14.63/-14.43	-19.04/-17.23	-7.95/-17.94	-14.71/-13.9	-15.79/-18.79	-13.55/-10.95	-6.7/-6.75	-9.13/-14.92	-15.58/-18.57	-13.96/-13.25	-12.33/-16.56	-16.12/-19.28	-15.84/-13.58	-10.12/-9.2	-15.57/-17.45	-15.07/-17.39	-5.55/-3.74	-3.27/-3.35	-5.82/-7.3	-13.28/-16.2	-18.51/-13.84	-8.67/-11.37	-8.94/-8.66	-14.4/-11.85
Θ(75°)	-13.91/-13.28	-17.19/-19.94	-9.85/-16.99	-18.22/-17.66	-12.93/-13.22	-15.41/-19.88	-11.85/-7.93	-11.39/-18.17	-18.81/-17.39	-16.38/-12.05	-8.18/-17.02	-15.55/-9.07	-11.33/-16.97	-17.95/-18.68	-12.86/-14.97	-5.63/-4.83	-4.09/-5.3	-10.11/-10.3	-13.18/-10.37	-9.85/-8.48	-9.48/-15.43	-12.09/-10.31	-17.73/-9.57	-
Θ(82.5°)	-12.68/-15.08	-17.92/-18.8	-10.6/-14.65	-18.09/-11.01	-7.35/-7.82	-11.11/-12.73	-13.57/-12.65	-10.59/-14.83	-18.88/-18.58	-17.55/-17.5	-11.59/-18.03	-8.7/-17.61	-15.52/-15.72	-13.91/-17.53	-17.62/-11.61	-17.12/-12.59	-4.74/-5.08	-6.39/-13.96	-19.82/-14.45	-12.95/-8.29	-8.79/-8.52	-11.49/-12	-18.2/-13.92	-19.35/-17.56
Θ(90°)	-12.27/-16.23	-17.94/-18.06	-7.08/-11.78	-13.55/-12.25	-7.53/-6.54	-7.63/-11.08	-15.74/-11.69	-11.25/-16.28	-14.93/-16.19	-14.45/-18.19	-13.19/-16.76	-10.77/-9.59	-11.78/-16.74	-18.89/-16.93	-14.86/-11.07	-10.83/-12.17	-5.93/-8.01	-9.57/-18.78	-18.06/-18.74	-11.09/-7.56	-7.61/-7.39	-8.47/-10.4	-16.69/-15.46	-15.11/-16.56
Θ(97.5°)	-11.81/-17.96	-18.93/-15.19	-11.98/-10.9	-11.86/-10.09	-6.82/-6.41	-6.12/-6.99	-16.74/-16.69	-8.83/-15.48	-11.93/-16.75	-17.49/-18.82	-16.63/-14.98	-11.54/-14.37	-18.76/-16.67	-17.62/-18.1	-9.21/-7.36	-9.64/-8.46	-6.12/-9.84	-13.77/-17.77	-10.22/-10.55	-7.71/-7.83	-8.4/-7.99	-8.38/-10.72	-16.08/-11.53	-17.48/-17.86
Θ(105°)	-17.91/-18.49	-19.01/-18.39	-17.61/-11.6	-10.05/-8.73	-7.61/-7.75	-9.99/-6.56	-9.23/-18.16	-17.33/-10.17	-11.39/-18.03	-10.87/-14.84	-14.9/-17.3	-17.18/-9.53	-18.54/-13.66	-18.09/-12.93	-10.38/-9.26	-9.29/-10.28	-8.09/-14.57	-18.77/-18.51	-8.86/-10.01	-9.89/-10.02	-10.52/-6.79	-7/-8.49	-14.76/-13.53	-18.31/-18.29
Θ(112.5°)	-18.25/-17.9	-15.55/-17.83	-13.62/-19.24	-16.57/-11.37	-9.57/-8.07	-9.59/-10.72	-10.37/-15.6	-18.07/-16.59	-8.46/-12.2	-15.26/-17.46	-14.02/-14.11	-12.43/-18.81	-17.89/-18.09	-19.26/-11.41	-10.15/-8.73	-11.17/-10.72	-9.98/-14.52	-10.95/-15.19	-10.11/-8.87	-8.72/-12.18	-9.47/-7.28	-7.25/-10.81	-13.49/-18.75	-19.16/-16.52
Θ(120°)	-15.68/-14	-17.1/-18.29	-10.27/-8.96	-10.78/-7.66	-8.78/-8.94	-10.27/-12.51	-19.01/-12.51	-19.57/-17.49	-14.71/-13.76	-16.03/-18.23	-19.06/-16.11	-12.18/-19.34	-17.1/-18.46	-19.05/-18.05	-10.55/-13.34	-12.17/-10.03	-12.11/-15.79	-17.82/-12.28	-13.71/-7.88	-8.15/-10.87	-16.16/-10.87	-7.88/-10.95	-16.67/-16.61	-18.09/-10.97
Θ(127.5°)	-11.22/-14.05	-13.01/-15.58	-10.06/-10.82	-16.26/-14.56	-9.64/-10.05	-13.83/-10.38	-14.1/-10.11	-12.2/-18.93	-17/-15.88	-14.2/-16.52	-18.44/-11.25	-7.39/-11.85	-7.16/-9.06	-14.07/-15.55	-18.21/-10.74	-14.29/-14.06	-17.3/-18.87	-12.86/-12.32	-9.95/-7.8	-6.65/-11.02	-14.51/-12.82	-9.42/-10.42	-12.16/-12.42	-15.57/-17.69
Θ(135°)	-18.56/-18.6	-18.65/-18.51	-17.65/-11.71	-12.21/-10.17	-12.46/-12.15	-15.18/-13.93	-12.67/-11.34	-15.55/-11.68	-16.92/-11.41	-18.55/-14.58	-16.88/-13.77	-13.77/-15.63	-10.63/-16.07	-12.18/-16.02	-18.85/-14.07	-13.01/-17.77	-17.96/-19.67	-9.98/-10.75	-8.52/-9.24	-8.35/-9.79	-17.91/-12.61	-12.08/-15.37	-12.93/-16.92	-18.17/-17.11
Θ(142.5°)	-15.78/-13.83	-14.57/-12.25	-12.17/-10.43	-12.3/-11.72	-10.26/-13.44	-14.75/-15.28	-14.69/-10.6	-13.56/-10.96	-16.58/-18.33	-12.07/-10.73	-17.63/-15.2	-8.57/-16.35	-11.2/-13.61	-18.25/-19.59	-16.14/-14.7	-13.96/-18.16	-14.78/-12.24	-7.14/-10.07	-9.31/-10.1	-16.52/-11.42	-17.31/-15	-12.14/-12.04	-10.55/-15.62	-13.05/-13.82
Θ(150°)	-11/-10.57	-17.96/-8	-11.43/-10.43	-14.07/-19.38	-13.07/-11.25	-12.55/-16.06	-12.26/-14.32	-17.93/-19.07	-16.78/-19.77	-18.29/-14.09	-10.71/-14.46	-15.77/-8.4	-10/-17.35	-13.49/-13.49	-17.27/-14.75	-13.36/-11.61	-10.89/-9.21	-8.82/-12.71	-12.46/-9.63	-12.95/-11.24	-9.69/-15.78	-15.07/-8.41	-10.62/-14.66	-16.96/-17.53
Θ(157.5°)	-3.83/-9.75	-9.23/-9.5	-18.11/-16.72	-14.52/-13.61	-15.68/-15.41	-13.51/-13.6	-17.52/-19.24	-16.24/-15.7	-16.98/-13.76	-11.32/-16.38	-17.83/-7.53	-5.67/-10.02	-13.37/-8.07	-8.77/-12.63	-14.26/-12.38	-12.4/-11.1	-11.57/-12.24	-16.35/-17.16	-13/-12.04	-14.07/-17.94	-18.12/-19.02	-18.32/-10.95	-10.24/-17.92	-14.59/-10.33
Θ(165°)	-9.19/-13.92	-14.71/-17.51	-12.56/-10.94	-12.12/-12.17	-12.32/-14.53	-17.1/-15.96	-16.34/-16.15	-14.89/-15.7	-15.65/-16.52	-13.51/-14.9	-11.28/-12.57	-10.63/-11.69	-14.44/-16.43	-15.93/-18.4	-19.03/-18.19	-12.37/-15.64	-15.5/-14.38	-12.8/-13.55	-18.46/-17.73	-16.92/-14.68	-15.06/-14.02	-12.28/-13.39	-12.43/-9.14	-
Θ(172.5°)	-6.8/-9.14	-10.22/-17.1	-17.97/-16.83	-17.99/-18.13	-17.96/-18.15	-15.36/-14.93	-18.92/-18.54	-18.61/-18.53	-16.7/-15.73	-18.11/-18.05	-14.71/-13.32	-14.23/-15.69	-17.78/-19.41	-18.38/-17.43	-14.77/-11.51	-9.83/-9.61	-9.42/-9.52	-10.87/-13.97	-16.25/-16.11	-18.95/-18.08	-17.39/-14.63	-12/-11.76	-12.91/-10.42	-7.69/-6.03
Θ(180°)	-15.32/-12.78	-13.47/-17.18	-18.16/-10.27	-18.81/-18.66	-19.02/-18.43	-18.22/-17.51	-18.32/-18.35	-16.86/-16.54	-14.51/-12.67	-11/-10.78	-11.37/-13.24	-11.55/-9.84	-9.2/-9.11	-10.15/-10.5	-10.54/-12.56	-14.91/-17.06	-18.33/-18.75	-18.7/-18.27	-18.88/-15.56	-13.16/-12.19	-11.27/-10.85	-10.53/-9.56	-8.35/-8.57	-10.16/-13.14
Freq(Hz)	5.3GPol.	ThetaAnt.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°)	-5.01/-5.28	-5.58/-5.26	-5.74/-7.04	-8.15/-8.24	-9.78/-11.31	-12.64/-15.97	-18.99/-18.42	-18.69/-14.46	-13.07/-11.77	-10.23/-8.52	-7.25/-6.57	-6.12/-6.16	-5.34/-4.69	-5.07/-5.64	-5.96/-6.29	-6.46/-7.4	-8.57/-10.38	-12.12/-13.34	-17.82/-18.99	-18.46/-14.24	-11.93/-12.33	-9.6/-7.27	-7.47/-5.9	-5.15/-5.39
Θ(7.5°)	-7.37/-6.37	-5.97/-5.2	-5.33/-5.57	-7.93/-7.08	-9.06/-9.67	-10.87/-11.12	-12.71/-12.98	-13.99/-14.58	-11.52/-10.05	-7.92/-7.5	-6.09/-6.65	-6.28/-6.11	-6.06/-5.87	-6.81/-5.77	-7.97/-8.96	-9.37/-9.63	-9.84/-9.2	-8.92/-9.17	-8.42/-7.55	-8.93/-8.66	-7.9/-8.61	-6.83/-6.77	-	-
Θ(15°)	-3.02/-2.84	-3.26/-2.57	-2.24/-2.88																					



Radiated Composite Gain Data_Radio 1 2.4GHz, Radio 2 5GHz-4TX

Appendix D

Θ(15°)	-9.85/-13.4	-13.77/-18.69	-17.85/-13.76	-12.11/-13.3	-13.56/-13.68	-18.76/-17.4	-18.97/-19.2	-18.05/-18.33	-18.92/-19.25	-18.66/-18.55	-17.69/-18.32	-18.33/-14.86	-12.99/-11.91	-14.31/-15.49	-15.06/-15.49	-16.36/-18.83	-18.63/-19.34	-19.12/-17.7	-17.93/-18.8	-18.66/-18.27	-17.85/-18.73	-18.45/-18.35	-18.76/-12.83	-10.82/-9.24
Θ(22.5°)	-8.5/-10.52	-9.17/-10.67	-17.44/-18.12	-14.04/-12.15	-11.29/-11.92	-14.16/-15.7	-18.03/-17.82	-17.32/-17.65	-13.98/-10.47	-9.05/-11.64	-18.33/-19.22	-18.89/-18.39	-11.31/-8.07	-10.09/-12.8	-12.97/-13.92	-17.88/-18.84	-17.33/-17.4	-17.58/-17.78	-17.24/-13.69	-11.79/-12.75	-14.24/-15.09	-14.36/-19.67	-18.03/-13.09	-10.72/-9.52
Θ(30°)	-11.72/-9.44	-7.24/-9.81	-17.22/-12.28	-10.03/-10.64	-9.88/-10.32	-13.04/-12.01	-11.76/-15.9	-18.82/-18.76	-15.61/-7.64	-5.27/-4.3	-4.76/-9.28	-17.62/-12.89	-12.45/-9.68	-10.28/-18.08	-10.44/-8.9	-11.88/-12.69	-11.57/-10.37	-11.11/-15.1	-16.73/-12.06	-9.48/-10.59	-12.63/-13.34	-15.87/-18.92	-16.36/-13.05	-13.39/-15.49
Θ(37.5°)	-17.55/-14.14	-12.45/-11.68	-18.06/-13.71	-13.56/-13.39	-9.99/-10.28	-11.33/-10.76	-11.41/-11.79	-12.71/-15.06	-13.58/-8.62	-7.91/-6.68	-4.99/-7.25	-14.24/-12.46	-13.45/-12.07	-16.94/-14.43	-6.7/-8.78	-11.63/-9.83	-13.94/-13.76	-14.38/-18.16	-15.31/-10.28	-8.94/-10.8	-9.12/-10.96	-15.96/-18.48	-14.65/-16.98	-14.91/-11.76
Θ(45°)	-17.65/-13.14	-9.95/-15.39	-15.04/-17.47	-11.54/-8.95	-8.53/-10.17	-8.01/-7.91	-8.33/-8.37	-10.72/-10.23	-12.98/-12.96	-11.24/-14.15	-10.95/-8.6	-11.63/-15.15	-13.67/-18.78	-16.41/-17.22	-8.43/-13.81	-11.86/-9.73	-18.53/-15.67	-17.45/-11.54	-12.01/-7.38	-5.29/-5.21	-3.88/-5.74	-7.88/-9.45	-10.1/-18.26	-12.26/-11.14
Θ(52.5°)	-17.87/-11.68	-11.55/-18.3	-15.53/-18.37	-14.33/-9.72	-8.46/-10.79	-7.44/-4.94	-3.94/-5.44	-6.1/-7.57	-17.66/-15.23	-18.26/-17.75	-18.55/-16.76	-13.67/-18.71	-11.76/-13.72	-10.54/-13.24	-15.9/-18.93	-14.22/-19.22	-15.01/-13.94	-12.13/-7.28	-10.01/-7.69	-7.4/-7.9	-7.86/-6.03	-5.71/-9.92	-17.65/-18.58	-13.3/-14.75
Θ(60°)	-18.53/-16.19	-13.43/-18.73	-8.83/-9.8	-12.55/-12.39	-13.48/-13.65	-9.61/-5.67	-5.51/-4.38	-4.26/-6.18	-9.98/-12.67	-11/-12.91	-18.71/-19.57	-13.62/-18.56	-17.38/-12.55	-10.35/-9.32	-14.17/-18.58	-16.01/-18.75	-10.91/-8.25	-6.65/-6.55	-8.44/-9.82	-11.02/-11.29	-15.67/-10.65	-6.68/-9.91	-18.54/-17.3	-12.03/-17.58
Θ(67.5°)	-17.54/-17.71	-18.47/-19.03	-10.24/-8.45	-13.25/-18.26	-18.06/-18.11	-15.5/-7.8	-8.31/-4.47	-4.34/-6.67	-10.54/-11.42	-11.79/-11.66	-17.89/-17.9	-17.86/-11.24	-18.21/-12.18	-12.21/-11.69	-14.18/-19.07	-17.98/-16.99	-11.84/-6.9	-4.53/-6.53	-8.03/-11.08	-16.33/-18.41	-17.97/-19.2	-14.4/-14.75	-16.19/-18.02	-10.07/-16.7
Θ(75°)	-18.09/-18.1	-14.84/-17.98	-8.3/-6.27	-13.68/-19.71	-13.98/-11.1	-16.59/-9.69	-9.87/-5.94	-5.09/-7.93	-14.16/-15.89	-12.88/-11.2	-11.28/-18.03	-19.28/-11.37	-18.94/-11.8	-15.45/-16.43	-11.11/-14.93	-18.63/-16.3	-11.19/-6.16	-4.4/-7.39	-10.15/-18.56	-17.98/-17.17	-14.25/-17.99	-18.67/-17.35	-19.33/-19.41	-18.39/-12.12
Θ(82.5°)	-17.8/-18.59	-18.91/-16.99	-13.06/-9.35	-16.46/-12.01	-7.86/-7.82	-9.75/-13.36	-10.93/-7.6	-6.3/-10.22	-14.69/-15.24	-13.47/-11.04	-16.37/-12.72	-18.51/-9.08	-18.22/-12.63	-16.63/-19.11	-12.48/-14.4	-18.76/-15.7	-10.03/-7.12	-5.68/-9	-15.91/-17.56	-18.11/-13.49	-11.59/-10.57	-17.41/-18.96	-18.24/-18.23	-18.63/-13.56
Θ(90°)	-13.56/-17.5	-18.93/-13.29	-8.55/-8.77	-18.67/-11.85	-6.1/-4.34	-6.13/-10.09	-15.62/-11.09	-6.71/-10.88	-18.01/-16.42	-13.69/-13.2	-9.83/-16.68	-16.82/-12.25	-17.91/-13.74	-17.68/-18.83	-14.23/-11.29	-14.19/-9.74	-9.38/-7.37	-9.25/-15.01	-18.79/-18.27	-13.83/-12.34	-9.43/-7.79	-11.98/-18.67	-17.84/-17.51	-18.03/-18.96
Θ(97.5°)	-18.27/-13.26	-18.65/-14.95	-8.16/-10.33	-18.12/-11.57	-6.62/-3.06	-3.5/-8.84	-10.39/-14.43	-7.59/-9.42	-13.69/-18.28	-10.72/-15.57	-12.88/-10.66	-12.87/-11.61	-16.1/-14.41	-18.65/-18.87	-16.55/-12.92	-9.26/-9.31	-10.52/-8.1	-15.75/-17.98	-18.95/-19.24	-13.18/-11.42	-11.58/-9.95	-12.84/-18.19	-17.82/-14.64	-18.97/-18.98
Θ(105°)	-17.9/-17	-18.37/-16.62	-8.96/-8.85	-11.68/-8.86	-5.55/-3.96	-3.48/-6.14	-10.81/-12.71	-13.23/-8.08	-10.53/-18.85	-11.2/-15.44	-18.67/-17.98	-15.08/-13.89	-18.83/-19.05	-15.58/-13.86	-11.46/-12.7	-8.01/-9.18	-8.81/-10.1	-17.84/-18.85	-17.72/-18.48	-16.58/-14.34	-11.09/-9.17	-9.36/-11.84	-15.73/-11.82	-17.2/-18.58
Θ(112.5°)	-15.21/-16.46	-17/-17.91	-17.19/-7.11	-8.67/-8.71	-8.32/-6.25	-4.77/-6.19	-8.22/-13.18	-18.69/-13.75	-8.92/-14.34	-14.27/-7.68	-18.23/-18.35	-14.72/-17	-11.15/-17.58	-17.57/-16.73	-13.58/-11.21	-8.95/-11.97	-8.6/-13.66	-19.03/-18.14	-18.37/-18.19	-17.24/-17.7	-9.35/-11.88	-10.25/-10.88	-13.47/-12.33	-18.46/-17.13
Θ(120°)	-10.3/-18.92	-18.42/-13.31	-17.3/-15.94	-14.17/-13.11	-9.94/-7.77	-10.01/-9.18	-8.25/-9.73	-18.36/-18.9	-14.31/-12.64	-17.93/-16.51	-12.24/-18.09	-13.18/-15.76	-18.67/-17.49	-17.6/-17.91	-11.42/-10.87	-11.69/-14.98	-12.49/-17.33	-16.02/-13.24	-14.31/-10.38	-7.74/-9.28	-12.4/-13.05	-15.9/-16.6		
Θ(127.5°)	-10.02/-14.74	-14.22/-14.8	-11.15/-13.3	-11.55/-13.37	-9.86/-9.41	-10.87/-17.53	-16.21/-10.71	-10.33/-15.04	-12.04/-11.35	-17.51/-15.98	-15.03/-16.64	-9.15/-19.13	-9.84/-19.16	-18.57/-17.62	-15.79/-14.41	-12.36/-12.41	-17.29/-18.59	-18.77/-13.63	-11.93/-14.41	-16.65/-13.95	-11.01/-9.73	-7.38/-11.94	-17.23/-14.51	-14.1/-18.96
Θ(135°)	-18.62/-12.02	-13.77/-10.53	-11.91/-11.82	-14.06/-16.49	-11.57/-11.08	-16.28/-13.41	-14.81/-18.65	-11.67/-9.92	-7.82/-15.92	-17.58/-19.32	-13.95/-7.4	-8.94/-10.24	-16.3/-19.21	-18.29/-17.86	-17.06/-18.72	-14.54/-13.24	-10.53/-14.26	-13.06/-17.4	-11.63/-11.92	-14.27/-14.43	-9.19/-10.68	-19.12/-16.62		
Θ(142.5°)	-19.21/-15.43	-18.74/-18.95	-18.3/-15.77	-14.86/-18.05	-13.1/-13.03	-18.35/-18.98	-17.12/-19.1	-17.57/-15.7	-14.66/-8.28	-18.29/-18.12	-13.67/-19.46	-16.6/-18.2	-18.61/-18.1	-12.36/-18.26	-15.61/-17.77	-16.35/-10.48	-12.38/-10.96	-7.73/-11.02	-13.5/-17.38	-16.89/-18.42	-17.05/-14.2	-17.62/-17.92	-17.48/-11.68	
Θ(150°)	-17.83/-16.07	-15.3/-13.85	-8.34/-9.07	-9.92/-14.85	-16.92/-17.47	-18.84/-11.72	-17.61/-16.38	-9.42/-10.2	-11.26/-8.56	-9.84/-16.02	-17.53/-11.49	-17.73/-15.68	-12.83/-18.32	-10.37/-17.93	-13.75/-19.1	-17.84/-13.73	-18.98/-10.84	-9.95/-11.39	-11.28/-19.09	-13.09/-15.67	-17.22/-10.42	-17.48/-19.19	-18.5/-17.93	-17.63/-14.33
Θ(157.5°)	-12.27/-12.6	-12.99/-11.19	-15.43/-19.21	-18.53/-13.69	-10.27/-10.81	-13.42/-17.2	-18.15/-18.94	-18.25/-15.91	-1.5/-14.61	-9.18/-9.84	-17.88/-11.11	-8.94/-12.62	-11.49/-17.9	-12.8/-13.56	-16.46/-15.5	-14.24/-16.76	-19.34/-17.57	-16.93/-12.73	-12.89/-18.74	-16.25/-12.53	-18.46/-19.14	-16.22/-13.02	-15.71/-19.19	-15.1/-18.59
Θ(165°)	-14.19/-11.15	-9.07/-9.41	-14.7/-18.92	-17.44/-17.55	-19.21/-18.71	-18.2/-18.57	-17.55/-15.4	-14.79/-12.54	-10.75/-10.85	-10.14/-9.54	-11.36/-15.4	-17.18/-13.3	-12.78/-12.02	-15.37/-18.99	-13.11/-13.94	-17.23/-17.86	-18.44/-18.7	-17.48/-15.81	-18.79/-17.68	-17.92/-18.24	-18.03/-18.29	-18.64/-14.37	-14.6/-14.76	-18.1/-18.08
Θ(172.5°)	-13.83/-10.99	-7.41/-10.76	-16.14/-18.73	-16.77/-13.86	-13.7/-16.98	-17.92/-18.76	-18.82/-18.8	-15.74/-15	-15.24/-13.27	-12.75/-14.42	-12.31/-10.69	-9.4/-10.1	-11.15/-13.09	-19.15/-18.79	-17.54/-18.4	-16.92/-15.47	-16.36/-15.57	-13.68/-12.13	-11.99/-13.01	-12.98/-12.08	-12.7/-14.43	-14.02/-12.39	-10.78/-10.67	-12.12/-13.6
Θ(180°)	-18.85/-15.9	-18.29/-15.44	-13.15/-13.32	-18.37/-17.65	-18.99/-18.39	-18.92/-18.65	-18.55/-18.69	-18.21/-19.06	-17.98/-18.42	-17.63/-16.82	-19.15/-16.1	-14.99/-17.16	-15.85/-15.57	-18.66/-18.26	-19.06/-17.44	-19.08/-18.54	-18.21/-18.5	-16.8/-15.73	-14.69/-16.14	-16.94/-16.29	-15.96/-16.25	-16.26/-18.93	-18.03/-18.39	-18.76/-18.24
Freq(Hz)	5.785GPol.	ThetaAnt.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-11.5/-11.7	-12.84/-12.18	-11.1/-11.72	-11.66/-11.41	-11.51/-11.44	-11.35/-11.02	-11.25/-12.44	-12.4/-11.21	-11.25/-11.63	-11.02/-11.13	-10.55/-9.84	-10.6/-10.93	-11.07/-11.12	-10.21/-10.41	-11.11/-12.65	-14.58/-16.33	-17.72/-18.7	-18.5/-18.63	-18.09/-16.65	-15.8/-16.25	-13.72/-12.63	-13.05/-11.86	-11.33/-13.41	-11.53/-11.98
Θ(7.5°)	-7.52/-7.3	-7.41/-9.11	-9.74/-10.19	-11.56/-11.28	-11.3/-12.83	-14.38/-16.05	-18.01/-16.81	-17.31/-16.88	-16.63/-16.77	-15.73/-12.83	-12.97/-12.42	-9.93/-10.09	-9.3/-8.52	-7.88/-6.85	-6.28/-6.05	-6.66/-6.69	-7.15/-7.41	-7.63/-7.69	-7.98/-8.1	-8.24/-7.81	-6.82/-7.44	-7.13/-6.7	-7.94/-7.01	
Θ(15°)	-6.91/-7.73	-8.44/-7.92	-6.95/-6.72	-5.86/-3.8	-3.08/-2.64	-3.04/-3.78	-4.66/-6.02	-7.08/-7.87	-8.9/-10.67	-12.14/-14.06	-12.55/-9.57	-7.43/-5.31	-4.69/-3.54	-3.57/-3.99	-4.6/-5.73	-6.81/-7.75	-8.48/-9.2	-10.15/-12.55	-15.07/-17.38	-18.18/-19.02	-18.7/-15.68	-12.22/-10.05	-8.66/-7.48	-6.83/-6.31
Θ(22.5°)	-5.56/-4.55	-3.1/-3.28	-4.04/-4.79	-4.29/-3.31	-2.42/-1.49	-1.68/-2.04	-2.34/-2.02	-1.67/-1.59	-1.34/-1.68	-2.68/-5.59	-9.19/-9.77	-7.58/-3.09	-1.190.27	-0.03/-1.3	-3.55/-6.52	-7.98/-8.19	-7.34/-5.88	-5.58/-5.59	-5.64/-5.69	-5.71/-5.11	-4.51/-5.89	-8.6/-12.33	-15.98/-13.66	-9.13/-6.88
Θ(30°)	-1.9/-2.1	-0.920.13	0.47/-0.32	-1.69/-3.52	-3.15/-3.05	-4.87/-6.78	-5.63/-4.67	-3.82/-2.7	-1.24/-0.73	-0.42/-0.52	-0.82/-3.81	-8.13/-7.6	-4.9/-3.08	-1.14/-2.83	-12.58/-7.68	-2.25/-1	-1.21/-1.92	-2.17/-1.38	-0.9/-0.89	-1.010.14	1.131.04	-0.68/-3.78	-9.19/-12.72	-6.05/-1.95
Θ(37.5°)	-0.260.97	1.82/-1.85	2/2.05	-0.28/-3.68	-2.19/-2.54	-7.53/-11.72	-8.06/-8.71	-12.42/-11.9	-9.21/-4.91	-1.4/-0.61	-0.3/-0.89	-3.64/-3.53	-2.22/-2.26	-2.77/-3.89	-12.1/-11.57	-4.56/-3.16	-2.78/-0.89	-1.14/-0.49	1.120.95	0.181.31	2.712.86	2.42.34	0.42/-4.59	-5.36/-2.58
Θ(45°)	1.02/-1.48	1.362.46	2.570.95	-1.15/-1.85	-1.42/-1.68	-3.39/-4.79	-1.61/-2.96	-5.84/-5.01	-4.37/-2.51	-2.44/-2.18	-1.2/-1.02	-2.59/-6.07	-4/-2.24	-4.69/-7.27	-11.17/-10.97	-3.1/-1.2	-30.42	-0.79/-2.96	-1.14/-1.37	-3.14/-3.13	-1.42/-1.03	-0.39/-1.54	1.08/-4.09	-5.84/-2.12
Θ(52.5°)	1.872.27	1.212.09	2.830.23	-0.77/-0.44	-1.890.24	0.13/-0.53	1.861.26	0.15/-1.03	-4.47/-5.61	-5.65/-1.97	-0.020.13	-2.47/-4.61	-6.7/-4.19	-3.91/-7.63	-13.31/-8.19	-2.170.24	-0.730.82	-1.23/-7.42	-7.33/-3.73	-3.77/-3.99	-3.75/-4.57	-1.720.16	-1.05/-2.89	-6.91/-0.



Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	6.62	5.94	5.72	5.88
Ant. 2 Max Gain (dBi)	6.09	5.61	5.72	6.67
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/60/67.5	Theta/60/67.5	Theta/60/142.5	Theta/60/135
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/52.5/270	Theta/52.5/270	Theta/60/277.5	Theta/60/270
Max Gain (dBi)	6.62	5.94	5.72	6.67
DG [1SS] (dBi)	8.63	6.77	7.1	7.07
DG [2SS] (dBi)	6.62	5.94	5.72	6.67

DG 1SS Result

Freq(Hz)	6.175GPol.	PNil-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)				
Θ(0°)	-0.170-06	-0.01-05.1	-0.97-1.18	-1.13-2.08	-2.67-3.88	-5.17-6.32	-8.41-9.49	-10.05-11.66	-8.81-9.96	-5.51-5.28	-4.44-2.9	-2.07-1.79	-1.35-1.09	-0.93-1.6	-1.83-0.98	-2.4-7.6	-4.42-4.25	-6.02-8.06	-10.97-13.57	-14.39-12.98	-12.0-8.65	-6.8-6.04	-4.86-3.29	-1.94-0.86				
Θ(7.5°)	2.16-2.18	-2.03-2.05	2.51-0.33	-2.61-2.48	-2.63-3.57	-3.85-4.98	-6.31-7.21	-7.81-8.42	-8.17-7.83	-6.63-5.3	-4.64-7.33	-2.69-1.81	-1.1-0.8	-0.72-0.92	-1.65-1.74	-2.19-3.92	-5.48-7.88	-9.72-13.65	-12.9-12.92	-10.08-7.77	-7.85-6.68	-5.31-4.9	-4.56-4.04	-2.78-2.55				
Θ(15°)	4.99-5.48	-5-0.53	-5.98-6.87	-6.84-6.99	-6.95-5.32	-5.8-5.66	-6.42-8.28	-8.24-7.52	-5.23-4.29	-3.36-3.1	-5.03-7.13	-7.64-5.22	-2.95-2.55	-3.37-5.2	-8.76-8.85	-9.33-10.13	-11.55-14.63	-14.46-14.29	-11.63-9.25	-7.84-6.83	-6.33-6.47	-7.55-7.79	-7.57-6.85	-4.44-4.7				
Θ(22.5°)	3.99-2.66	-2.61-4.33	-7.67-8.86	-9.17-9.17	-9.25-7.69	-7.04-7.19	-7.89-6.98	-5.29-3.81	-3.14-1.48	-4.90-0.31	-0.85-3	-3.9-5.02	-4.62-4.4	-6.84-0.59	-10.3-8.26	-6.35-5.59	-7.99-11.42	-13.03-9.54	-7.69-6.83	-6.39-6.16	-5.41-4.85	-5.38-6.45	-9.55-7.79	-5.36-5.01				
Θ(30°)	-3.08-1.91	-3.71-7.13	-4.84-8.35	-4.84-6.63	-7.48-7.75	-6.68-5.75	-4.94-2.47	-4.93-6.06	-7.17-7.77	-5.98-3.55	-3.39-2.99	-2.13-3.01	-3.43-2.6	-4.08-6.86	-8.27-9.31	-9.17-7.24	-6.52-9.09	-9.81-6.81	-6.82-6.84	-8.15-10	-7.65-7.2	-5.62-7.32	-9.67-7.54	-4.21-4.75				
Θ(37.5°)	-6.09-5.3	-6.02-5.07	-3.14-0.4	-7.99-7.93	-8.3-12.3	-11.02-8.3	-3.57-3.42	-9.05-15.5	-15.42-13.95	-14.61-8.14	-3.83-4.97	-6.18-4.25	-6.31-11.05	-8.43-6.26	-6.85-7.8	-5.63-5.59	-6.26-6.48	-8.12-9.06	-11.77-14.24	-7.8-5.12	-6.4-6.93	-7.75-5.24	-5.31-6.15					
Θ(45°)	8.04-6.18	-5.63-4.65	-4.89-7.97	-14.43-7.23	-8.81-7.69	-10.95-11.38	-5.46-5.18	-13.47-15.8	-14.85-14.16	-8.23-4.12	-1.99-2.72	-3.89-5.82	-6.8-7.96	-12.29-8.14	-6.46-7.17	-6.75-9.68	-9.02-7.53	-7.55-7.69	-13.43-11.97	-9.58-10.43	-8.24-5	-9.55-9.86	-8.71-9.93	-10.63-9.12				
Θ(52.5°)	7.62-8.87	-8.31-9.76	-10.45-13.35	-11.41-8.21	-9.59-8.85	-8.86-8.84	-8.77-9.82	-10.92-8.2	-11.42-13.95	-10.7-0.1	-6.84-5.38	-3.96-7.33	-7.28-9.56	-8.19-6.71	-7.65-9.15	-7.15-9.38	-12.7-8.45	-5.82-8.17	-11.86-12.32	-11.77-12.88	-10.61-9	-15.42-11.48	-9.71-10.86	-7.92-8.79				
Θ(60°)	-10.05-12.06	-15.12-13.48	-11.96-15.98	-10.65-10.24	-15.97-14.07	-13.43-11.84	-10.51-11.29	-10.31-9.9	-14.37-10.93	-9.96-7.82	-11.89-9.95	-7.86-7.77	-6.17-8.99	-7.36-7.16	-8.02-15.22	-8.65-9.02	-11.97-10.85	-8.21-9.56	-13.75-15.73	-14.88-13.45	-10.14-13.35	-14.87-12.67	-11.17-9.46	-8.08-8.65				
Θ(67.5°)	14.89-15.01	-13.83-8.92	-10.18-15.34	-9.79-8.91	-10.85-11.34	-12.46-14.85	-11.77-11.48	-9.32-9.26	-11.06-7.61	-8.71-5.44	-10.48-8.49	-11.32-8.74	-9.71-8.35	-8.62-7.06	-8.52-16.11	-11.36-7.86	-9.76-11.58	-12.1	-12.1-9.3	-12.22-15.36	-14.41-12.81	-9.41-13.85	-11.2-11.4	-11.34-7.54	-8.75-11.07			
Θ(75°)	-15.21-8.06	-8.94-7.5	-9.61-14.22	-9.33-7.65	-7.11-10.51	-10.28-13.47	-14.74-10.18	-12.64-7.68	-9.26-9.15	-8.59-5.27	-7.31-5.67	-8.57-10.52	-10.82-9.5	-11.43-6.69	-7.13-13.28	-14.33-9.21	-9.11-10.93	-10.38-12.94	-11.39-14.34	-15.43-12.9	-9.71-13.64	-9.27-10.22	-12.44-7.71	-8.8-16.3				
Θ(82.5°)	-10.78-6.46	-7.67-7.83	-9.81-12.08	-8.81-8.01	-8.13-12.8	-10.03-12.76	-15.19-10.99	-11.99-6.82	-7.65-11.29	-9.91-5.72	-6.41-4.48	-5.89-1.22	-11.45-10.1	-9.98-8.98	-7.23-8.55	-14.66-10.18	-6.93-7.93	-9.46-9.18	-15.1-15.71	-15.42-11.77	-12.59-11.14	-12.77-10.32	-12.81-6.61	-11.53-14.58				
Θ(90°)	-9.75-6.47	-9.08-9.05	-10.39-11.15	-8.78-11.25	-9.38-12.52	-11.63-10.74	-15.1-13.12	-10.14-7.04	-7.81-11.23	-10.9-8.56	-6.71-4.86	-4.44-10.3	-10.76-14.4	-10.34-8.95	-7.85-9.57	-11.26-14.75	-6.54-9.22	-13.19-8.68	-11.55-13.29	-14.45-10.27	-15.51-10.53	-8.75-8.91	-12.88-10.51	-12.51-10.83				
Θ(97.5°)	-8.75-6.37	-10.18-9.22	-11.68-10.89	-7.17-9.96	-12.22-11.37	-12.83-11.92	-15.55-13.44	-10.04-6.43	-6.77-11.31	-13.5-10.66	-7.76-7.04	-5.49-7.89	-10.88-15.42	-11.08-14.13	-9.26-7.53	-12.51-13.1	-8.75-9.27	-15.59-10.14	-12.29-15.1	-16.29-12.1	-13.68-9.86	-9.28-10.71	-12.43-11.28	-14.75-10.05				
Θ(105°)	-6.61-8.8	-10.62-10	-11.45-12.65	-6.66-7.77	-12.39-12.22	-13.93-11.91	-16.06-15.92	-10.72-7.94	-6.59-11.24	-13.59-13.58	-11.89-9.25	-8.06-6.37	-12.44-11.78	-13.58-14.49	-13.68-8.08	-14.75-16.17	-13.51-9.4	-11.41-12.71	-15.15-15	-13.49-14.75	-12.28-11.78	-11.79-11.77	-13.22-13.77	-13.78-9.22				
Θ(112.5°)	-9.16-12.28	-12.83-11.15	-10.43-10.44	-5.44-8.17	-14.07-11.41	-12.92-13.82	-15.15-15.34	-11.71-7.47	-8.84-12.81	-12.81-13.5	-11.85-10.34	-10.59-8.68	-10.26-13.02	-11.59-13.33	-13.65-9.99	-15.12-15.33	-15.24-9.63	-11.46-15.88	-15.02-15.33	-12.93-15.94	-8.97-14.69	-10.91-13.76	-12.7-15.45	-13.16-9.57				
Θ(120°)	-13.66-16.03	-12.98-9.45	-9.3-11.14	-7-8.84	-12.52-11.53	-11.83-12.68	-13.54-15.61	-10.99-8.44	-8.85-10.56	-12.43-13.06	-12.69-13.9	-9.96-10.71	-12.58-12.23	-13.61-14.93	-15.65-11.23	-15.57-14.92	-15.55-13.42	-12.66-13.99	-15.54-15.21	-11.99-12.27	-12.57-11.95	-12.27-15.16	-11.74-13.38	-12.82-10.81				
Θ(127.5°)	-15.91-15.67	-11-8.57	-14.29-8.93	-7.87-13.55	-16.07-9.22	-12.49-10.56	-14.95-11.48	-10.83-9.6	-12.13-13.02	-5.88-0.85	-11.09-13.72	-14.93-13.97	-15.46-10.81	-15.48-13.06	-15.61-14.28	-15.95-15.23	-14.12-15.36	-13.27-14.45	-14.58-13.45	-14.58-15.2	-11.28-11.83	-14.79-14.98	-11.91-15.01	-11.89-13.47				
Θ(135°)	-14.55-13.27	-12.41-15.54	-13.44-7.69	-11.54-13.39	-11.86-9.46	-12.89-10.67	-15.7-11.57	-12.98-8.75	-12.68-12.66	-8.57-6.14	-9.35-14.78	-14.18-12.17	-14.97-10.59	-15.6-14.14	-15.27-14.54	-15.59-12.55	-14.94-14	-15.77-14.54	-15.31-16.4	-13.57-13.79	-12.64-12.88	-15.8-9.88	-13.77-13.75	-15.55-13.68				
Θ(142.5°)	-15.46-15.06	-15.7-13.84	-12.8-9.47	-9.93-12.9	-9.14-9.87	-12.8-11.8	-14.25-10.21	-13.93-9.46	-15.64-13.68	-11.48-6.66	-8.79-15.44	-8.99-10.39	-13.19-15.09	-11.52-12.45	-12.33-10.73	-15.13-15.19	-12.62-15.51	-15.56-12.37	-15.55-13.28	-15.22-13.2	-15.19-14.34	-11.55-12.55	-15.89-12.67	-15.67-14.16				
Θ(150°)	-13.2-10.13	-15.36-11.48	-9.25-8.43	-9.52-14.43	-12.33-13.05	-11.25-12.77	-14.32-9.33	-13.22-13.56	-15.48-11	-9.89-11.12	-11.55-8.1	-9.61-10.62	-13.3-13.07	-10.37-9.75	-12.52-13.2	-13.35-12.88	-15.47-15.58	-15.15-14.72	-12.41-12.45	-12.94-15.12	-15.42-15.51	-15.21-14.13	-14.76-13.11	-11.63-14.63				
Θ(157.5°)	-13.61-11.79	-13.24-11.11	-8.31-10.1	-11.53-14.63	-15.74-13.77	-13.53-12.86	-15.52-11.7	-13.52-15.5	-15.25-10.58	-11.97-6.14	-9.38-15.35	-13.2-15.75	-13.03-15.74	-11.43-11.76	-15.44-15.34	-14.09-13.74	-15.47-15.26	-15.65-15.21	-15.06-15.17	-14.59-15.4	-13-11.23	-12.44-14.37	-10.91-11.35					
Θ(165°)	12.87-12.4	-12.78-12.21	-14.03-13.86	-15.02-15.92	-15.47-15.9	-14.99-15.22	-14.15-14.78	-15.74-15.52	-12.15-11.33	-12.08-11.59	-9.47-7.72	-8.18-11.56	-15.39-13.4	-13.14-14.49	-12.89-11.72	-12.55-14.7	-15.87-14.36	-13.42-15.32	-16-14.67	-16.12-14.97	-15.39-14.78	-14.15-13.05	-12.76-15.32	-13.08-11.75				
Θ(172.5°)	-14.05-16.15	-14.98-14.19	-13.04-13.43	-13.26-12.58	-14.84-15	-15.68-14.14	-14.56-11.58	-11.13-9.51	-10.04-9.29	-9.88-9.59	-9.51-10.05	-11.55-12.29	-13.27-14.39	-15.14-15.93	-12.2-14.95	-13.12-14.31	-13.65-14.07	-15.76-15.33	-15.05-15.57	-12.31-13.88	-11.81-12.87	-12.81-12.73	-14.16-14.83	-15.01-13.84				
Θ(180°)	-14.44-13.72	-12.07-12.66	-13.72-12.95	-12.96-13.26	-12.49-14.4	-14.11-14.53	-15.27-15	-14.96-15.36	-15.9-15.62	-12.35-11.66	-12.13-11.66	-11.66-11.92	-11.72-14.15	-12.56-11.93	-11.47-13.26	-13.71-14.88	-14.79-14.09	-15.11-15.76	-12.37-13.88	-12.81-12.23	-12.25-12.74	-13.31-13.72	-13.21-15.07					
Freq(Hz)	6.175GPol.	PNil-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DG(dB)	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)				
Θ(0°)	-0.46-0.82	9.54-9.8	9.34-7.99	-7.28-5.52	-4-3.48	-2.42-1.23	-1.6-1.11	-1.34-1.34	-1.96-2.15	-2.98-3.29	-3.53-5.26	-6.91-9.25	-11.97-14.17	-15.05-15.75	-12.07-9.88	-6.95-5.7	-4.15-3.52	-2.38-1.73	-1.38-0.88	-0.79-0.53	-0.6-0.7	-1.21-1.64	-2.49-3.21	-4.12-5.7				
Θ(7.5°)	9.68-11.27	-12.36-13.56	-14.75-11.82	-9.29-7.78	-6.2-4.41	-3.61-2.13	-1.31-0.73	0.020-29	0.550-45	0.37-0.04	-0.5-1.38	-2.19-1.28	-3.74-4.69	-5.48-5.99	-6.69-6.96	-6.5-5.91	4.87-4.4	-3.76-3.3	-3.65-3.62	-3.69-4.4	4.88-4.82	-5.44-5.47	-5.45-5.96	-6.92-8.33				
Θ(15°)	4.73-5.72	-6.68-7.15	-6.76-5.35	-3.93-3.73	-3.5-3.12	-3.11-2.88	-2.64-1.63	-1.41-0.56	0.160-53	0.620-92	0.60-3	0.20-12	-0.06-59	-1.41-2.6	-3.37-3.46	-3.86-3.14	-1.85-1.94	-1.621-2.05	-2.7-9.3	-4.72-5.07	-5.72-5.86	-7.44-6.75	-6.24-9.43	-4.58-4.44				
Θ(22.5°)	-1.737-1.97	-7.01-6.26	-5.44-5.59	-3.75-3.41	-2.99-2.59	-3.11-3.62	-4.84-6.82	-7.17-8.34	-7.75-4.79	-3.4-1.77	-1.16-0.55	0.410-98	1.070-54	0.720-54	0.37-4	2.140-43	4.334-86	4.619-23	2.22-0.02	-1.25-1.93	-0.84-2.63	-5.32-5.33	-7.85-8.44					
Θ(30°)	-5.99-7	-5.5-4.11	-3.8-3.4	-3.56-4.62	-3.34-0.91	-0.04-0.17	0.02-0.18	-0.27-0.93	-1.66-2.56	-2.44-1.29	-0.290-49	1.211-56	1.19-0.15	-0.51-0.02	1.752-14	1.97-2.8	4.345-66	6.26-06	5.163-25	0.94-12.27	-4.56-3.5	-1.071-1.48	-3.66-5.67	-14-2-8				
Θ(37.5°)	-0.02-0.48	-2.95-5.04	-3.95-2.71	-1.71-0.74	1.412-2.2	2.81-6.4	2.12-2	3.083-08	-0.86-0																			



Radiated Composite Gain Data_Radio 3 6GHz-2TX

Appendix E

Θ(22.5°)	-3.47/-3.85	-3.75/-2.66	-2.95/-5.15	-7.91/-9.3	-9.03/-6.83	-4.38/-2.75	-3.48/-5.55	-8.13/-7.47	-4.96/-2.63	-1.33/-0.23	0.1/-1.15	-2.91/-3.6	-4.71/-6.03	-7.55/-8.08	-11.01/-14.17	-10.07/-7.27	-5.95/-4.6	-4.13/-3.38	-1.07/-0.2	0.720/-0.1	-2.31/-5.07	-5.29/-5.19	-4.32/-2.59	-2.69/-2.86
Θ(30°)	-2.5/-2.97	-2.96/-2.37	-4.03/-6.65	-6.6/-8.4	-4.12/-2.41	-0.71/-0.36	-2.01/-6.45	-11.4/-15.23	-10.04/-4.22	-1.44/-1.22	-1.17/-0.7	-1.96/-4.9	-6.03/-6.8	-5.67/-5.22	-8.4/-11.38	-9.4/-5.15	-3.86/-3.69	-5.06/-5.35	-4.76/-3.99	-2.39/-1.81	-4/-8.51	-9.93/-9.27	-8.55/-4.85	-2.56/-1.67
Θ(142.5°)	-5.16/-5.5	-4.01/-3.13	-5.06/-5.5	-4.38/-3.81	-5.1/-5.67	-4.39/-2.89	-2.99/-5.8	-10.51/-9.77	-6.41/-5.95	-5.25/-5.31	-5.95/-2.64	-2.16/-2.07	-3.12/-4.87	-3.49/-4.61	-2.86/-3.77	-2.8/-5.28	-2.8/-5.28	-1.38/-1.08	-8.45/-7.33	-9.21/-14.04	-11.12/-11.31	-9.18/-3.21	-2.76/-5.21	
Θ(45°)	-7.91/-4.85	-4.23/-4.85	-7.79/-9.93	-7.95/-5.54	-6.42/-9.6	-13.55/-9.8	-4.1/-4.83	-12.39/-8.62	-6.58/-9.28	-6.59/-4.26	-4.99/-3.95	-4.06/-2.98	-5.66/-5.43	-5.27/-6.25	-8.67/-6.06	-7.52/-6.87	-5.33/-7.35	-9.37/-8.43	-13.72/-13.71	-11.96/-10.68	-7.67/-12.22	-10.7/-9.11	-9.73/-4.91	-4.85/-7.9
Θ(52.5°)	-5.13/-3.7	-6.77/-10.43	-15.23/-13.92	-9.3/-8.63	-7.55/-7.27	-15.47/-10.89	-6.3/-3.32	-11.82/-8.68	-13.27/-14.89	-9.98/-7.5	-7.21/-5.47	-4.46/-5.05	-9.25/-8.64	-9.82/-6.1	-5.46/-5.66	-8.14/-8.62	-7.02/-10.36	-11.33/-10.16	-14.74/-15.42	-12.37/-10	-6.6/-7.9	-10.74/-10.7	-6.86/-7.94	-9.66/-8.9
Θ(60°)	-6.32/-9.01	-14.68/-14.41	-15.56/-15.04	-11.69/-9.7	-9.21/-9.01	-15.13/-14.57	-15.29/-10.27	-8.08/-8.4	-13.82/-14.07	-11.75/-12.22	-15.67/-14.4	-9.31/-5.53	-8.81/-7.07	-10.73/-7.64	-8.48/-6.75	-9.21/-11.48	-15.31/-14.43	-15.35/-15.06	-11.93/-11.45	-9.13/-8.41	-10.97/-14.94	-9.11/-8.86	-7.47/-9.86	
Θ(67.5°)	-10.83/-15.41	-13.27/-12.66	-15.08/-13.99	-11.23/-7.87	-9.49/-11.5	-11.68/-14.78	-14.66/-9.83	-7.28/-9.96	-14.5/-15.45	-12.17/-12.13	-9.21/-10.12	-15.05/-13.14	-7.86/-7.41	-8.34/-8.04	-12.81/-9.93	-10.39/-10.51	-11.98/-13.1	-15.33/-16.11	-14.96/-15.23	-15.07/-15.26	-11.79/-10.82	-14.8/-15.62	-11.29/-11.78	-6.87/-9.24
Θ(75°)	-15.14/-11.68	-11.31/-16.21	-15.37/-14.36	-9.54/-5.81	-6.98/-13.23	-9.76/-11.21	-14.93/-11.02	-7.58/-10.74	-15.33/-15.78	-10.12/-10.59	-7.01/-7.91	-11.27/-15.53	-8.71/-6.97	-5.53/-10.03	-8.09/-15.75	-14.64/-9.86	-11.16/-11.93	-15.52/-14.94	-13.11/-15.96	-13.27/-15.78	-11.57/-10.99	-13.22/-9.72	-9.61/-14.45	-10.63/-10.39
Θ(82.5°)	-14.31/-7.61	-13.05/-15.72	-13.83/-13.81	-8.52/-4.91	-8.83/-15.01	-11.08/-9.75	-13.02/-11.09	-8.34/-7.97	-12.02/-14.22	-10.16/-11.76	-7.89/-8.35	-9.98/-12.69	-8.36/-11.5	-5.01/-9.77	-6.87/-15.63	-15.52/-9.61	-9.08/-9.87	-13.61/-15.38	-9.5/-13.8	-9.23/-12.05	-10.11/-12.01	-13.85/-8.02	-7.8/-14.25	-14.38/-12.15
Θ(90°)	-12.58/-8.21	-14.04/-14.41	-10.98/-14.07	-7.58/-4.64	-9.38/-14.46	-15.79/-9.51	-13.71/-11.55	-9.71/-7.46	-9.74/-12.37	-10.8/-11.89	-7.83/-9.59	-9.92/-8.94	-9.62/-14.01	-6.13/-11.43	-8.34/-12.76	-15.52/-9.52	-6.25/-7.95	-13.24/-14.97	-9.47/-14.55	-10.37/-12.13	-11.01/-12.82	-11.68/-8.76	-8.58/-13.09	-14.83/-14.45
Θ(97.5°)	-7.75/-9.26	-13.04/-9.17	-8.9/-11.04	-6.88/-5.75	-9.84/-15.01	-14.94/-9.32	-15.88/-11.97	-12.26/-8.02	-10.78/-11.08	-8.02/-9.98	-7.04/-11.94	-9.46/-8.89	-10.49/-13.84	-8.9/-12.89	-9.32/-13.21	-13.9/-11.73	-5.82/-8.16	-13.8/-13.74	-13.32/-14.03	-13.7/-15.42	-12/-15.32	-13.81/-9.98	-11.92/-14.92	-13.24/-14.81
Θ(105°)	-7.49/-13	-10.99/-6.66	-7.51/-9.84	-7.42/-7.56	-12.41/-15.24	-15.16/-11.7	-15.17/-13.25	-13.3/-10.46	-9.1/-11.32	-10.21/-9.07	-7.51/-11.81	-11.17/-7.8	-12.04/-12.43	-13.31/-12.39	-11.35/-12.83	-12.67/-11.31	-7.98/-9.79	-15.49/-12.93	-16.05/-14.23	-13.54/-15.97	-14.49/-13.79	-15.8/-11.32	-13.83/-15.26	-13.43/-12.23
Θ(112.5°)	-8.96/-14.63	-7.66/-6.73	-9.98/-11.55	-7.91/-9.36	-14.91/-15.36	-13.55/-13.47	-14.32/-14.85	-13.47/-9.25	-9.16/-12.05	-9.42/-10.02	-8.58/-10.21	-12.06/-10.09	-13.78/-11.71	-15.3/-14.33	-12.48/-14.84	-15.91/-16.11	-9.11/-11.22	-13.82/-15.33	-14.74/-14.52	-15.24/-14.37	-14.41/-14.34	-14.86/-12.15	-11.39/-13.63	-14.67/-11.31
Θ(120°)	-12.89/-15.68	-9.25/-13.3	-12.36/-14.4	-7.96/-11.83	-15.06/-12.62	-14.87/-12.64	-14.07/-15.48	-11.91/-10.43	-9.99/-13.3	-11.19/-9.61	-10.24/-8.21	-13.85/-9.43	-14.19/-11.93	-13.42/-14.23	-15.67/-13.22	-15.45/-15.35	-14.04/-13.19	-15.88/-14.08	-15.4/-15.28	-14.58/-14.12	-15.9/-14.43	-12.99/-10.81	-13.78/-13.74	-15.65/-11.38
Θ(127.5°)	-14.01/-14.68	-13.61/-8.8	-13.49/-14.1	-9.34/-15.55	-15.03/-10.36	-14.84/-11.82	-15.27/-14.41	-10.17/-11.24	-15.34/-14.84	-11.09/-9.19	-11.34/-8.82	-15.1/-12.59	-15.69/-13.82	-14.64/-12.28	-14.33/-12.67	-14.25/-13.94	-16.11/-13.51	-13.95/-12.51	-13.78/-14.74	-14.12/-13.96	-12.1/-9.19	-13.69/-15.43	-13.69/-15.74	-14.12/-12.92
Θ(135°)	-14.6/-13.84	-10.77/-10.56	-15.04/-15.17	-14.4/-15.79	-15.12/-8.99	-13.92/-11.37	-15.01/-13	-11.54/-11.24	-15.3/-14.36	-9.64/-11.34	-13.63/-11.06	-12.73/-10.32	-14.44/-13.69	-15.76/-15.99	-13.99/-15.08	-13.67/-14.31	-15.29/-16.43	-14/-15.51	-14.66/-13.34	-15.28/-14.72	-11.57/-12.1	-15/-11.15	-11.98/-15.56	-13.38/-13.69
Θ(142.5°)	-15.7/-15.88	-15.9/-13.14	-13.65/-15.23	-12.85/-13.83	-11.03/-8.76	-14.25/-14.09	-13.43/-11.07	-15.18/-9.23	-15.46/-16.38	-13.64/-11.33	-10.63/-15.31	-13.25/-14.05	-14.71/-14.97	-14.36/-12.74	-15.33/-14.74	-15.66/-14.09	-13.08/-15.64	-15.02/-12.75	-15.16/-15.48	-15.23/-15.1	-15.39/-15.81	-15.57/-15.93	-15.36/-16.14	-14.52/-13.58
Θ(150°)	-16.14/-13.66	-15.62/-13.13	-13.68/-12.72	-11.75/-13.33	-12.46/-13.95	-12.99/-12.6	-14.95/-11.26	-15.68/-10.01	-13.81/-13.73	-10.04/-11.39	-13.3/-13.37	-12.2/-12.57	-12.29/-15.38	-14.86/-9.44	-16.55/-15.29	-13.12/-13.27	-14.99/-14.87	-15.93/-14.37	-15.51/-15.44	-14.79/-15.7	-12.34/-14.03	-14.88/-13.95	-14.18/-14.57	-14.12/-14.85
Θ(157.5°)	-14.78/-13.52	-11.3/-12.68	-10.69/-11.61	-12.91/-13.28	-14.82/-14.54	-14.34/-15.62	-14.24/-12.29	-15.37/-15.21	-15.19/-16.01	-11.1/-8.59	-10.08/-15.14	-13.27/-12.74	-12.22/-11.79	-15.3/-15.21	-12.87/-14.9	-15.15/-14.85	-14.56/-15.34	-15.92/-13.97	-14.46/-15.48	-15.67/-15.08	-15.52/-15.56	-14.88/-14.92	-14.62/-14.62	-13.41/-12.55
Θ(165°)	-13.23/-14.38	-14.88/-14.33	-13.27/-13.69	-16.45/-14.53	-15.36/-14.99	-15.65/-15.26	-15.98/-15.91	-15.53/-15.75	-15.01/-15.17	-14.94/-14.9	-13.37/-11.96	-11.92/-14.9	-15.47/-17.37	-14.67/-14.97	-15.48/-14.35	-14.92/-15.06	-15.44/-15.54	-15.38/-15.55	-15.8/-15.81	-15.2/-15.73	-15.25/-13.85	-15.02/-15.16	-15.96/-14.93	-15.55/-13.04
Θ(172.5°)	-15.95/-15.49	-15.19/-15.1	-15.41/-14.48	-13.57/-13.29	-13.88/-14.14	-14.98/-15.45	-14.26/-13.27	-11.88/-11.24	-11.45/-13.16	-14.63/-15.48	-15.02/-15.49	-14.93/-15.32	-15.85/-15.63	-15.15/-15.18	-15.08/-15.63	-15.61/-15.02	-14.74/-15.5	-15.48/-15.65	-15.39/-15.81	-15.57/-15.93	-15.36/-16.14	-14.52/-13.58	-14.15/-14.99	
Θ(180°)	-15.36/-15.41	-14.55/-13.87	-13.61/-14.76	-15.34/-15.66	-15.31/-15.61	-14.88/-15.45	-15.53/-15.37	-15.15/-14.95	-15.21/-15.5	-15.75/-15.77	-15.76/-14.78	-15.29/-14.52	-14.07/-14.61	-15.27/-14.37	-14.61/-15.02	-15.44/-15.24	-15.57/-15.83	-15.71/-15.32	-16.06/-15.25	-15.46/-14.81	-16.07/-15.94	-15.23/-14.93	-14.49/-14.14	-13.67/-14.43
Freq(Hz)	6.695GPol.	Theta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-7.04/-6.89	-6.25/-6.68	-4.61/-3.27	-2.4/-1.82	-1.12/-0.84	-0.39/-0.4	-0.74/-0.88	-1.45/-1.92	-2.51/-3.63	-4.88/-5.53	-6.68/-6.74	-6.36/-8.13	-8.68/-8.51	-7.42/-6.46	-4.92/-3.83	-3.34/-2.36	-1.91/-1.28	-1.25/-0.69	-0.82/-0.34	-0.39/-0.02	-0.4/-0.77	-1.29/-2.43	-3.11/-4.41	-5.66/-4.47
Θ(7.5°)	-9.31/-10.48	-11.26/-9.96	-8.77/-7.05	-6.21/-4.89	-3.41/-2.65	-1.41/-0.62	0.140/-0.69	0.961/-1.7	1.210/-99	0.42/-0.05	-1.24/-2.3	-3.26/-4.12	-4.61/-4.85	-3.65/-2.6	-1.21/-0.67	-0.51/-0.32	-0.21/-0.53	-0.55/-1.11	-1.81/-2.39	-2.81/-3.34	-3.2/-4.26	-4.7/-5.06	-5.38/-5.74	-7.16/-8.28
Θ(15°)	-3.76/-5.03	-6.08/-6.01	-5.77/-5.25	-4.87/-4.83	-4.84/-5.45	-6.18/-6.35	-6.99/-6.15	-4.77/-3.64	-2.26/-1.06	0.190/-77	1.61/-1.94	2.26/-229	1.830/-96	0.177/-0.31	-0.55/-0.47	-0.6/-1.02	-4.83/-6.88	-9.85/-9.29	-5.62/-3.16	-1.26/-0.59	-0.090/-0.2	0.13/-0.64	-1.47/-2.75	
Θ(22.5°)	-3.05/-6.26	-8.58/-8.55	-5.65/-5	-4.37/-3.55	-2.9/-4.04	-3.78/-4.32	-5.88/-7.55	-6.45/-4.8	-4.32/-4.52	-4.27/-4.19	-2.53/-0.8	0.441/-38	2.232/-58	1.80/-29	-0.59/-0.96	-0.77/-0.03	1.03/-162	1.430/-88	0.1/-1.25	-2.83/-3.37	-3.43/-3.2	-3.02/-2.33	-0.730/-33	-0.69/-0.85
Θ(30°)	-3.02/-5.46	-5.44/-5.67	-5.75/-2.1	0.471/-23	0.590/-05	0.01/-0.24	-0.83/-3.06	-6.68/-8.11	-5.61/-3.44	-2.37/-1.87	-2.2/-2.84	-2.92/-1.29	0.30/-92	0.450/-03	-1.64/-0.52	2.53/-45	3.58/-05	2.41/-81	1.64/-94	1.28/-142	1.370/-98	0.273/-69	-3.69/-3.2	-2.4/-1.81
Θ(37.5°)	0.230/-4	0.080/-46	-0.98/-1.06	0.961/-45	1.191/-39	1.470/-33	-1.1/-1.28	-1.48/-2.12	-1.45/-1.66	0.241/-84	1.91/-06	0.26/-0.44	-1.58/-3.95	-3.21/-3.07	-1.66/-6.14	3.873/-82	3.843/-71	2.931/-61	1.942/-11	1.3/-0.49	-0.60/-86	1.47/-2.24	-5.09/-7.03	-5.26/-1.81
Θ(45°)	1.472/-65	2.372/-96	2.09/-0.94	-1.9/-2.37	-0.36/-0.29	5.174/-57	1.671/-36	2.883/-15	2.793/-4	3.32/-76	2.071/-34	-2.66/-3.23	-1.07/-1.06	0.61/-253	2.770/-76	-0.58/-1.79	2.741/-93	1.861/-82	1.26/-0.59	3.68/-1.76	0.661/-1.95	-4.6/-8.5	-6.05/-2.21	
Θ(52.5°)	-1.150/-35	1.565/-06	3.52/-11	0.951/-5	3.235/-15	5.644/-53	3.773/-77	3.533/-13	5.35/-7	6.216/-24	4.491/-19	1.160/-72	-1.35/-1.1	0.911/-11	0.882/-21	1.57/-64	1.233/-03	5.095/-03	5.795/-83	3.851/-7	-0.42/-1.36	-0.39/-2.44	-3.14/-0.7	-4.17/-3.6
Θ(60°)	-3.78/-1.5	0.41/-76	4.274/-57	3.66/-2.6	3.68/-53	5.163/-19	1.893/-55	4.574/-49	5.575/-36	6.037/-1	5.11/-18	0.72/-24	1.34/-0.1	0.662/-	0.240/-54	1.810/-41	2.55/-1.8	4.324/-9	6.225/-95	3.330/-49	-0.010/-03	-0.38/-2.62	-2.6/-1.85	-3.02/-3.93
Θ(67.5°)	-2.76/-0.88	0.77/-0.41	3.54/-78	3.672/-66	3.945/-21	4.035/-45	5.815/-88	5.654/-18	5.176/-4	4.751/-71	0.784/-23	2.48/-0.28	0.781/-84	-0.860/-33	0.41/-59	3.751/-19	3.192/-71	4.174/-33	1.23/-1.08	1.260/-58	-1.08/-1.09	-0.770/-36	-3.32/-2.85	
Θ(75°)	-1.430																							



Freq(Hz)	6.175G	6.475G	6.695G	6.995G
Ant. 1 Max Gain (dBi)	6.62	5.94	5.72	5.88
Ant. 2 Max Gain (dBi)	6.09	5.61	5.72	6.67
Ant. 3 Max Gain (dBi)	2.84	4.27	3.01	3.95
Ant. 4 Max Gain (dBi)	3.44	3.21	3.15	3.32
Ant. 1 Polarization/ $\theta(^{\circ})/\Phi(^{\circ})$	Theta/60/67.5	Theta/60/67.5	Theta/60/142.5	Theta/60/135
Ant. 2 Polarization/ $\theta(^{\circ})/\Phi(^{\circ})$	Theta/52.5/270	Theta/52.5/270	Theta/60/277.5	Theta/60/270
Ant. 3 Polarization/ $\theta(^{\circ})/\Phi(^{\circ})$	Phi/105/187.5	Phi/82.5/330	Phi/97.5/330	Phi/97.5/322.5
Ant. 4 Polarization/ $\theta(^{\circ})/\Phi(^{\circ})$	Phi/67.5/105	Phi/67.5/352.5	Phi/90/105	Phi/82.5/0
Max Gain (dBi)	6.62	5.94	5.72	6.67
DG [1SS] (dBi)	7.33	5.36	5.1	5.34
DG [1SS] (dBi) Revised	7.33	5.94	5.72	6.67
DG [2SS] (dBi)	6.62	5.94	5.72	6.67
DG [4SS] (dBi)	6.62	5.94	5.72	6.67



Radiated Composite Gain Data_Radio 3 6GHz-4TX

Appendix F

Θ(22.5°)	-3.34/-4.3	-4.73/-2.66	-0.98/-0.53	-0.83/-0.69	-0.04/-1.22	1.91/7.2	1.26/0.25	-1.32/-0.51	0.97/1.81	2.78/4.37	3.57/3.27	2.88/2.83	2.16/1.3	1.07/0.76	-0.34/-0.83	0.22/1.2	1.28/1.46	1.27/1.16	1.57/1.49	1.91/1.16	-0.1/-1.35	-2/-3.24	-3.55/-3.1	-3.29/-2.58
Θ(30°)	0.19/0.01	0.21/-1.4	1.29/0.75	0.41/0.69	1.14/-0.03	2.71/2.83	2.18/-1.27	0.67/-0.47	-0.34/-1.47	3.32/3.95	3.55/-3.41	3.25/3.32	2.98/2.43	2.52/2.9	1.71/-0.28	-0.48/-0.89	1.41/-1.8	0.98/0.8	0.42/0.7	1.74/-1.84	0.54/-1.46	-2.97/-3.94	-3.56/-1.82	-1.05/-0.24
Θ(142.5°)	1.07/1.15	1.93/2.4	1.87/1.67	1.43/1.03	1.49/1.46	2.16/2.92	2.72/-1.96	-0.06/-0.86	0.53/0.78	0.96/1.59	2.63/7.9	4.18/4.1	3.18/-1.64	1.74/2.21	2.06/1.66	0.84/-1.58	1.91/-1.4	0.45/-0.81	-1.48/-1.26	-1.11/-0.64	-2.47/-3.56	-2.49/-0.19	0.06/0.01	
Θ(45°)	1.41/-97	1.81/-24	0.47/0.69	0.81/-62	2/-1.45	1.76/2.04	1.98/0.34	1.35/-5.8	1.91/0.35	1.66/2.14	2.86/2.62	1.45/2.59	1.71/-1.16	0.97/1.36	1.63/2.72	1.98/-1.08	1.56/1.38	0.17/0.35	0.13/-1.16	-2.09/-0.45	0.81/0.41	-0.52/-1.1	-1.96/-0.66	-0.56/0.5
Θ(52.5°)	2.96/2.18	1.79/-1.11	-0.74/-0.77	-0.21/-0.11	0.37/0.31	1.14/0.83	2.18/-1.93	-1.96/-0.44	0.71/-0.29	1.36/0.88	0.61/-1.36	-0.15/0.82	0.38/-0.98	0.25/2.84	3.36/2.5	0.83/0.44	1.21/-5.6	0.29/0.84	1.05/-0.81	-1.49/-0.08	0.55/0.79	-0.7/-0.5	0.09/-0.44	-0.19/-1.49
Θ(60°)	3.33/-1.31	0.72/0.89	-1.12/-1.72	-1.31/-1.65	-1.91/-0.77	-0.20/8.9	0.74/2.31	-0.08/-0.95	-2.18/-0.44	-0.78/0.07	-0.73/-1.02	-2.66/-0.24	-1.17/-0.14	-2.41/0.7	0.78/0.79	1.51/0.19	-1.34/0.28	-0.55/0.26	-0.61/-0.77	-1.58/-0.47	0.09/0.73	0.38/0	1.03/0.9	1.25/-1.77
Θ(67.5°)	2.70/8.6	1.83/-1.27	-1.37/-1.21	-2.21/-3.05	-3.82/-0.41	-0.14/-0.52	-1.7/-1	0.52/-1.3	-4.21/-1.89	-1.89/-0.08	-2.85/-3.6	-4.75/-0.55	-2.16/-1.29	-2.47/-0.54	-1.3/-0.92	0.63/0.26	-2.52/0.32	-2.04/-2.26	-1.42/0.06	-0.27/-1.52	0.32/-1.09	-0.30/7.9	1.29/-1.3	1.74/2.19
Θ(75°)	2.11/-1.62	2.01/0.82	-0.86/-1.26	-1.19/-0.69	-0.9/-1.11	-2.45/-1.93	-3.33/-1.6	1.4/-0.4	-3.2/-6.56	-1.74/-0.85	-3.75/-2.49	-1.94/-1.11	-2.05/-1.67	-0.41/-1.34	-0.22/-0.56	-1.14/-1.6	0.74/-1.26	-1.89/-1.24	-0.58/0.58	2.06/0.15	0.59/-0.71	0.12/-1.78	1.83/-1.63	1.71/-1.78
Θ(82.5°)	1.87/2.2	0.89/0.38	-0.42/-0.93	0.33/0.96	0.1/-2.47	-4.88/-1.77	-2.59/0.41	1.89/-1.5	-0.96/-2.63	-0.01/-2.03	-0.17/0.98	-1.6/-1.89	-0.75/-0.06	0.82/-0.75	1.98/0.02	-0.02/2.91	2.93/3.27	0.25/-0.4	0.29/2.33	3.67/2.8	1.03/0.11	0.33/-1.61	2.57/-1.54	1.81/2.09
Θ(90°)	1.37/1.68	-0.22/0.09	-0.06/-0.83	0.91/7.5	1.41/-3.15	-5.39/0.24	-1.19/-1.35	2.09/0.9	-0.41/-0.23	-0.13/-1.42	0.15/-1.15	-1.41/-1.92	0.95/0.55	0.74/-0.97	0.02/-0.14	0.81/3.23	3.02/2.78	-0.09/-0.41	-2.86/-1.14	2.81/2.3	1.26/0.28	1.35/-1.11	2.75/2.08	1.84/-1.67
Θ(97.5°)	1.96/0.39	-0.84/0.71	-0.38/-0.58	1.32/0.7	1.11/-1.63	-4.35/-0.17	-0.83/-0.01	1.33/0.48	-2.24/0.65	-0.28/0.21	0.51/-0.48	-1.88/-2.42	1.93/-1.78	0.34/-2.16	-0.79/-2.06	-1.01/-1.68	1.17/0.23	-1.68/-0.1	-6.18/-0.75	0.87/0.44	-0.16/-0.16	1.11/-1.46	2.12/-1.27	1.64/-1.36
Θ(105°)	1.53/-0.74	-1.27/0.51	-0.84/-0.99	0.04/-0.6	-0.1/-1	-2.78/-1.13	-1.03/-2.65	-0.39/-0.38	-1.25/0.23	-1.02/0.52	-0.29/-2.54	-2.28/-0.81	0.97/0.34	-1.47/-1.82	-1.26/2.39	-0.88/0.4	-0.26/-1.19	-3.03/-0.57	-8.36/-2.08	0.99/-0.05	-0.83/-1.22	0.68/0.91	0.57/-1.4	1.42/-1.3
Θ(112.5°)	0.56/-1.57	-0.69/-0.81	-1.7/-2.37	-1.23/-1.62	-3.33/-0.6	-1.74/-1.85	-1.43/-1.1	-1.62/-1.76	1.31/-2.02	-1.07/-0.52	-1.5/-4.26	-1.67/-2.16	-0.25/-0.94	-3.97/-5.38	-1.8/-2.53	-1.66/-0.48	-1.51/-3.58	-4.77/-2.12	-7.88/-2.11	0.35/-0.5	-2.44/-2.15	-0.05/0.15	0.27/0.93	0.42/0.72
Θ(120°)	-1.01/-2.67	-0.87/-1.77	-2.45/-4.69	-0.91/-3.4	-2.26/-2.62	-6.81/-2.17	-1.26/-0.62	-1.92/-3.2	-2.06/-0.75	-1.83/-1.73	-1.37/-3.07	-4.5/-4.54	-4.88/-6.08	-3.18/-1.7	-1.65/-3.02	-3.72/-5.13	-7.05/-3.38	-6.45/-3.64	-1.18/-1.17	-3.66/-3.11	-1.56/-1	-1.13/0.03	-0.31/0.06	
Θ(127.5°)	-1.89/-3.34	-2.74/-2.79	-4.99/-6.67	-2.78/-3.97	-3.66/-2.75	-8.82/-6.79	-4.74/-1.48	-0.69/-4.21	-2/-2.51	-1.85/-3.73	-8.46/-2.09	-8.25/-6.05	-3.7/-2.1	-8.84/-3.73	-1.22/-3.4	-0.31/-3.32	-4.44/-3.66	-5.57/-6.31	-5.06/-3.6	-8.85/-1.68	-2.89/-2.37	-3.09/-2.49	-0.4/-2.76	-1.62/-1.53
Θ(135°)	-3.13/-3.55	-2.97/-3.28	-4.84/-8.75	-3.71/-3.49	-5.06/-3.47	-4.92/-5.92	-8.82/-4.65	-2.97/-3.91	-5.87/-2.24	-2.07/-5.19	-3.76/-3.42	-8.38/-8.11	-6.39/-5.86	-9.46/-5.71	-6.02/-3.83	-3.24/-3.98	-7.2/-4.57	-6.48/-6.74	-4.48/-3.89	-1.44/-5.86	-5.37/-5.05	-4.63/-4.78	-1.06/-4.18	-3.31/-2.62
Θ(142.5°)	-3.42/-5.08	-4.44/-8.1	-5.38/-9.08	-5.59/-5.61	-3.94/-2.85	-4.85/-6.07	-7.8/-2.82	-3.46/-3.36	-5/-6.31	-6.25/-5.62	-2.55/-3.55	-7.85/-5.52	-4.68/-0.87	-7.13/-4.89	-3.1/-3.54	-6.59/-8.23	-8.17/-6.12	-5.64/-9.32	-8.84/-7.5	-8.02/-8.66	-10.03/-7.04	-5.19/-2.5	-1.58/-2.71	-2.84/-3.14
Θ(150°)	-3.32/-2.84	-4.77/-6.37	-5.61/-6.51	-9.39/-9.81	-5.6/-5.17	-5.82/-6.62	-10.08/-7.28	-5.6/-4.78	-3.65/-5.44	-7.55/-7.27	-4.32/-4.81	-6.22/-8.96	-7.59/-9.74	-8.07/-3.99	-4.37/-6.84	-7.44/-10.96	-11.12/-7.62	-7.6/-8.68	-8.54/-7.06	-7.1/-7.86	-6.87/-6.84	-5.81/-5	-3.99/-5.01	-3.77/-3.52
Θ(157.5°)	-5.66/-5.48	-4.99/-5.13	-5.37/-6.84	-7.7/-8.19	-8.34/-7.66	-7.75/-8.85	-7.89/-6.09	-7.4/-7.48	-5.7/-6.05	-8.35/-8.46	-8.25/-8.75	-8.34/-8.31	-9.45/-10.29	-8.96/-7.51	-7.92/-10.4	-9.77/-9.24	-9.16/-10.97	-12.71/-10.37	-10.48/-12.33	-12.57/-12.11	-12/-10.01	-6.63/-5.73	-6.7/-7.68	-6.16/-5.25
Θ(165°)	-6.73/-7.57	-8.29/-7.55	-6.97/-7.81	-10.36/-10.7	-12.29/-11.72	-11.41/-10.3	-9.5/-10.57	-9.35/-7.04	-6.27/-7.07	-8.93/-10.77	-10.22/-9.09	-8.62/-10.35	-11.12/-11.25	-11.91/-10.19	-9.56/-9.37	-10.08/-10.69	-10.76/-10.81	-12.07/-12.59	-12.59/-11.3	-10.09/-9.98	-8.89/-7.78	-7.26/-6.49	-7.08/-8.02	-8.39/-7.06
Θ(172.5°)	-7.64/-7.87	-8.71/-8.46	-9.04/-9.36	-9.49/-9.27	-9.3/-9.54	-11.42/-12.5	-10.51/-8.99	-7.85/-6.77	-6.53/-7.74	-9.5/-11.28	-12.03/-12.7	-11.62/-10.67	-10.29/-9.98	-9.27/-9.1	-8.89/-8.75	-8.85/-8.75	-8.95/-9.69	-10.53/-10.58	-9.98/-9.56	-7.27/-7	-7.16/-7.74	-8.07/-7.96	-8.18/-7.67	
Θ(180°)	-9.76/-10.3	-8.84/-8.91	-9.68/-11.72	-10.58/-9.85	-10.45/-11.34	-10.59/-11.29	-12.29/-10.61	-10.62/-11.44	-11.42/-10.63	-10.17/-9.65	-9.48/-9.84	-10.53/-8.95	-8.54/-9.28	-9.98/-8.75	-7.64/-7.79	-7.93/-7.19	-7.66/-9.05	-9.06/-8.79	-10.45/-11.21	-11.41/-11.43	-12.66/-11.99	-11.42/-11.31	-11.16/-9.28	-8.24/-8.63
Freq(Hz)	6.995GPol.	Theta/-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-5.72/-5.71	-5.21/-4.16	-2.54/-1.38	-0.69/0.36	1.21/-55	2.03/2.22	2.02/-189	1.67/1.64	0.94/-0.07	-0.84/-1.59	-2.61/-3.15	-4.01/-5.37	-6.21/-6.51	-5.53/-5.37	-4.11/-2.72	-1.68/-0.6	0.2/0.86	1.25/-1.83	1.69/2.05	1.75/-1.88	1.52/0.88	0.33/-0.95	-1.7/-2.96	-4.36/-5.03
Θ(7.5°)	-4.79/-5.85	-7.44/-6.79	-5.57/-3.78	-2.45/-1.1	0.05/0.77	1.59/-1.82	2.37/2.99	2.95/0.01	2.92/2.5	1.81/-1.09	-0.24/-1.4	-3.05/-3.94	-4.59/-4.36	-3.21/-2.66	-0.40/0.79	1.21/-1.25	1.56/-1.8	0.39/-0.55	1.61/-1.46	-1.75/-2.4	-3.18/-3.77	-	-	-
Θ(15°)	-1.59/-2.54	-3.18/-2.65	-1.55/-0.6	0.24/0.72	0.85/0.61	0.43/0.2	-0.52/-0.33	-0.22/-0.23	0.18/-1.07	1.96/2.25	2.34/-1.99	1.63/-1.14	0.84/0.21	-0.37/-0.51	-0.9/-0.88	-0.63/-0.09	0.21/0.38	0.24/-0.39	-1.27/-1.16	-0.56/-0.14	0.31/0.27	0.35/0.54	0.77/0.59	0.34/-0.57
Θ(22.5°)	-2.33/-2.61	-2.43/-2.17	-1.61/-1.24	-1.41/-0.85	-0.24/-0.35	0.01/-0.54	-1.7/-2.15	-1.12/-1.07	-1.47/-1.43	-0.84/-0.91	-0.34/-0.12	-0.69/-0.34	0.36/0.96	1.13/-1.38	0.72/-0.25	-0.71/0.56	1.68/-1.5	2.11/2.38	2.02/-1.96	1.02/0.38	-0.67/-1.44	-1.88/-1.45	-0.61/-0.29	0.81/-0.5
Θ(30°)	-2.23/-1.67	-0.81/-1.34	-2.08/-0.78	0.31/0.53	0.27/0.18	0.15/-0.33	-0.99/-1.4	-1.27/-0.68	-0.25/-1.49	-3.29/-2.52	-3.65/-2.33	-0.89/-0.06	0.44/-1.05	0.31/0.01	2.17/0.68	3.61/-2.6	2.16/2.59	3.02/-1.6	1.86/-1.81	1.50/-8.5	0.16/-2.26	-3.43/-3.25	-2.48/-2	
Θ(37.5°)	0.94/-1.39	0.62/0.36	-1.96/-1.23	0.93/-1.23	1.09/0.88	0.32/0.16	-0.07/-0.33	0.16/-0.58	-0.99/-0.5	0.62/-1.47	1.38/0.03	-1.38/-1.72	-2.34/-2.28	-1.57/-1.3	0.35/-1.6	2.97/2.68	2.73/0.5	2.31/0.98	1.39/-1.49	0.53/-0.9	-0.90/-7.9	1/-1.78	-4.64/-4.9	-4.1/-1.63
Θ(45°)	1.59/-2.17	0.76/-1.66	1/-0.59	-0.35/0.08	0.85/-6.67	3.99/4.22	2.42/-43	2.31/-7	2.62/2.28	1.93/-2.81	2.55/-1.46	0.41/-0.49	-2.73/-2.53	-0.6/-1.29	0.28/2.18	2.61/0.44	1.68/0.66	0.81/-0.6	0.41/-0.57	-2.53/-1.08	0.51/-1.4	-2.98/-4.92	-4.93/-1.99	
Θ(52.5°)	-0.65/0.04	0.12/0.5	2.57/-1.5	0.88/-1.21	2.13/9.2	4.73/2.24	2.58/2.95	3.08/2.23	4.66/-15	3.88/-5.1	3.89/0.77	-0.43/-0.7	-1.14/-0.2	0.67/0.47	-0.41/-2.4	1.56/-0.8	0.65/2.22	1.414/-45	2.80/-7.8	-0.15/-0.73	0.88/2.17	-3.26/-3.42	-3.2/-2.03	
Θ(60°)	-2.82/-1.1	-1.07/0.92	2.73/0.16	1.6/0.84	2.133/-4.6	3.422/-7.8	2.03/2.18	3.53/3.64	4.714/-0.4	4.134/-9.5	4.41/0.73	-0.46/-1.3	0.99/0.47	-0.34/-1.24	0.08/-0.62	0.22/-1.01	1.11/0.29	2.52/3.28	4.374/-7	2.42/-0.16	-0.31/-0.55	-0.75/-2.88	-2.67/-1.98	-1.71/-3.21
Θ(67.5°)	-2.96/-1.3	-0.21/-0.87	1.85/0.01	1.56/0.67	2.37/3.76	2.813/-4.2	2.99/3.27	3.71/3.76	4.28/2.82	3.194/-43	3.91/-1.23	-0.12/-2.69	1.55/-0.18	-0.83/-0.1	-0.85/-0.74	-1.37/-1.06	1.63/0.66	1.16/-1.78	3.16/3.56	1.09/-1.53	-2.32/-0.86	-1.95/-2.43	-2.07/-1.05	-2.29/-3.27
Θ(75°)	-2.43/-0.42	0.76/-0.83	0.93/-1.58	1.73/-1.21	2.62/-9.6	2.823/-2.2	3.162/-9.5	3.94/-9.29	4.08/-1.77	1.513/-3.5	1.87/-1.42	-2.14/-2.1	1.36/-1.4	-1.09/-1	-0.47/-0.86	-1.76/-0.25	2.27/0.21	0.59/0.96	2.28/2.36	1.19/-2.58	-0.46/-2.18	-1.03/-0.79	-3.56/-2.96	
Θ(82.5°)	-2.56/-0.14	0.8/-2.31	0.22/0.53	0.84/0.63	1.59/2.94	3.623/-33	2.83/-0.7	3.28/3.39	2.68/0.63	-0.19/0.73	0.59/0.97	-1.61/-2.51	0.42/-2.07	-0.59/-0.52	-1.81/-1.27	-1.71/-0.34	1.84/-1.92	0.62/-1.86	1.37/2.53					



Radiated Composite Gain Data_Radio 3 6GHz-4TX

Appendix F

Gain Result

Freq(Hz)	6.175GPol.	PhiAnt.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°)	-5.05/-4.5	-4.27/-4.0	-3.8/-3.92	-3.96/-4.1	-4.51/-5.28	-6.05/-7.45	-9.03/-11.08	-13.41/-15.36	-14.65/-13.47	-11.71/-10.25	-9.14/-7.85	-6.88/-6.73	-6.74/-6.42	-6.07/-5.24	-5.57/-5.61	-6.44/-6.45	-9.21/-4.1	-13.56/-15.44	-17.49/-8.36	-17.87/-18.19	-16.79/-13.98	-14.44/-9.19	-7.73/-8.54	-7.35/-8.4		
Θ(7.5°)	-7.99/-7.82	-7.93/-7.58	-7.48/-7.59	-7.1/-6.4	-6.21/-6.49	-6.58/-6.6	-7.26/-7.67	-8.91/-10.91	-13.26/-15.75	-16.75/-15.21	-12.54/-9.87	-7.75/-6.6	-5.62/-4.72	-3.86/-3.09	-3.3/-3.67	-4.65/-5.6	-7.43/-10.16	-13.94/-18.02	-17.65/-13.65	-10.53/-9.31	-7.97/-7.64	-7.44/-7.51	-7.69/-7.88	-8.01/-7.98		
Θ(15°)	-13.19/-13.07	-12.1/-11.5	-12.35/-14.68	-14.51/-13.46	-12.02/-9.91	-9.15/-19.7	-7.82/-7.78	-7.54/-8.53	-8.72/-9.07	-10.07/-10.87	-13.25/-17.56	-18.91/-13.24	-9.15/-8.03	-7.92/-8.01	-8.29/-8.37	-8.92/-10.04	-13.11/-17.47	-17.19/-16.1	-11.72/-8.59	-6.83/-5.71	-5.1/-5.26	-6.34/-7.44	-8.26/-9.16	-9.64/-11.95		
Θ(22.5°)	-13.71/-10.84	-9.6/-11.47	-17.89/-19.13	-12.69/-10.21	-6.56/-6.76	-6.23/-6.25	-6.77/-6.1	-4.79/-4.86	-4.67/-3.87	-3.42/-3.39	-4.18/-5.3	-6.34/-13.01	-14.49/-13.03	-16.32/-19.06	-17.58/-13.14	-8.69/-7.65	-10.40/-15.47	-15.66/-9.21	-6.63/-5.6	-5.31/-4.62	-3.94/-3.71	-5.6/-9	-9.22/-11.59	-11.55/-13.18		
Θ(30°)	-12.41/-10.01	-13.15/-15.98	-9.2/-6.07	-5.83/-7.43	-8.95/-8.19	-6.02/-5.43	-4.82/-3.64	-4.39/-6.7	-8.87/-7.57	-6.29/-6.51	-7.22/-6.02	-5.2/-6.09	-8.59/-11.21	-14.34/-18.59	-17.71/-18.11	-11.69/-9.36	-11.08/-14.1	-14.24/-7.9	-5.39/-5.54	-7.31/-9.84	-10.04/-7.21	-6.85/-8.01	-9.52/-11.97	-13.28/-14.75		
Θ(37.5°)	-18.24/-18.84	-13.81/-6.65	-4.03/-4.47	-7.08/-11.76	-14.54/-18.01	-17.88/-11.79	-5.01/-3.67	-8.37/-18.92	-18.55/-18.4	-15.73/-10.66	-15.48/-16	-14.54/-14.09	-11.62/-17.56	-18.69/-13.45	-9.13/-18.35	-17.01/-18.74	-18.36/-11	-11.59/-18.28	-18.31/-19.17	-18.45/-15.81	-18.82/-17.37	-17.33/-14.41	-11.27/-15.5	-13.75/-19		
Θ(45°)	-17.48/-14.28	-10.81/-7.4	-6.92/-9.99	-17.77/-10.89	-8.04/-9.92	-13.79/-13.27	-8.27/-6.54	-14.87/-18.37	-17.06/-15.46	-7.54/-4.26	-4.84/-6.94	-9.77/-13.37	-16.67/-15.63	-17.63/-11.15	-11.8/-18.26	-14.92/-15.91	-10.71/-9.17	-7.73/-10.51	-10.54/-10.39	-11.65/-9.97	-11.99/-10.78	-7.8/-9.56	-17.46/-17.75			
Θ(52.5°)	-16.29/-13.67	-13.89/-18.06	-18.14/-15.61	-12.45/-10.13	-10.9/-11.64	-11.16/-9.65	-15.02/-14.1	-12.77/-9.4	-12.09/-15.36	-11.48/-9.78	-14.39/-14.05	-10.88/-13.67	-17.27/-18.58	-15.6/-9.11	-9.63/-14.74	-13.34/-18.45	-13.61/-9.31	-9.87/-17.14	-18.09/-15.44	-12.78/-13.8	-17.79/-18.27	-18.8/-11.44	-9.29/-13.45	-15.5/-18.83		
Θ(60°)	-19.15/-18.69	-18.95/-14.82	-14.25/-19.37	-10.94/-11.69	-10.59/-11.82	-18.46/-12.65	-18.16/-18.65	-10.54/-8.87	-16.21/-18.84	-15.73/-10.66	-15.48/-16	-14.54/-14.09	-11.62/-17.56	-18.69/-13.45	-9.13/-18.35	-17.01/-18.74	-18.36/-11	-11.59/-18.28	-18.31/-19.17	-18.45/-15.81	-18.82/-17.37	-17.33/-14.41	-11.27/-15.5	-13.75/-19		
Θ(67.5°)	-17.63/-17.26	-17.48/-10.82	-11.33/-18.59	-9.93/-10.59	-11.58/-14.5	-13.76/-18.53	-18.16/-17.1	-9.78/-10.19	-14.75/-16.71	-18.45/-16.21	-15.49/-9.51	-13.93/-17.1	-12.67/-18.47	-17.66/-17.8	-10.65/-19.15	-17.71/-18.19	-18.35/-11.94	-18.57/-13.56	-14.75/-15.39	-18.92/-15.37	-18.21/-14.33	-13.71/-13.54	-12.35/-18.92			
Θ(75°)	-18.39/-9.48	-19.06/-10.89	-11.47/-17.13	-8.91/-9.18	-9.36/-12.54	-12.24/-16.16	-16.97/-14.46	-14.35/-9.16	-10.82/-15.13	-18.14/-11.27	-18.77/-8.33	-9.35/-13.12	-15.96/-18.11	-18.27/-17.74	-10.1/-18.85	-18.02/-18.13	-18.65/-11	-12.29/-19.23	-15.07/-16.12	-18.42/-14.15	-13.14/-15.35	-18.68/-14.38	-16.12/-12.62	-10.4/-19.28		
Θ(82.5°)	-17.18/-9.65	-17.47/-11.19	-12.34/-14.46	-8.59/-8.83	-11.84/-15.5	-13.86/-13.38	-18.24/-16.04	-16.78/-9.37	-9.41/-17.68	-18.27/-11.09	-18.81/-8.56	-9.39/-13.88	-18.86/-19.16	-13.25/-17.38	-10.79/-15	-17.86/-15.49	-12.02/-11.74	-11.99/-17.37	-12.6/-16.75	-18.46/-14.31	-13.34/-15.52	-13.88/-10.17	-18.5/-11.6	-12.57/-18.84		
Θ(90°)	-17.14/-12.34	-18.4/-10.2	-13.66/-13.2	-7.63/-8	-15.17/-18.77	-17.35/-10.71	-19.08/-18.12	-14.55/-10.25	-10.14/-18.02	-17.89/-12.69	-17.81/-9.76	-8.4/-12.75	-17.19/-15.9	-12.31/-13.54	-11.77/-10.66	-12.96/-17.96	-11.12/-17.29	-14.95/-19.81	-12.39/-14.88	-17.89/-14.38	-12.89/-9.52	-18.38/-10.53	-13.61/-17.97			
Θ(97.5°)	-18.16/-14.23	-18.77/-8.93	-16.9/-12.02	-7.68/-7.44	-18.72/-18.12	-18.05/-12.42	-18.38/-18.47	-14.48/-11.05	-8.71/-18.06	-17.71/-16.57	-18.24/-13.05	-9.57/-11.31	-17.13/-17.76	-14.71/-17.6	-15.96/-10.77	-13.58/-19.03	-12.03/-14.74	-18.78/-18.18	-13.05/-17.45	-19.17/-14.18	-19.12/-16.09	-11.95/-11.01	-16.94/-11.67	-16.79/-15.33		
Θ(105°)	-17.67/-15.65	-12.06/-10.05	-17.37/-14.58	-6.04/-7.67	-18.73/-14.48	-7.03/-10.71	-19.15/-13.2	-19.08/-19.18	-12.72/-12.15	-8.56/-18.63	-18.78/-18.53	-18.12/-18.28	-14.46/-14.09	-17.75/-16.69	-16.25/-18.92	-17.92/-9.4	-19.36/-19.46	-17.58/-14.06	-17.39/-18.89	-18.43/-17.76	-14.91/-16.71	-16.76/-19.07	-12.45/-12.2	-15.21/-14.37		
Θ(112.5°)	-17.2/-18.22	-13.65/-13.5	-16.48/-13.48	-6.03/-10.67	-15.5/-16.16	-18.77/-15.89	-18.87/-18.78	-11.73/-14.12	-11.36/-17.86	-17.93/-18.11	-18.94/-19	-19.06/-10.81	-17.56/-15.22	-18.03/-18.07	-17.84/-11.34	-17.89/-18.6	-19.54/-13.18	-13.33/-18.83	-19.39/-18.56	-14.48/-18.74	-15.73/-18.75	-9.87/-17.69	-13.29/-18.5	-18.1/-16.28		
Θ(120°)	-18.06/-18.96	-13.96/-16	-12.68/-11.67	-6.75/-11.52	-13.51/-13.84	-18.45/-13.83	-18.27/-18.4	-11.77/-12.07	-10.82/-12.99	-15.6/-16.43	-12.94/-18.9	-17.44/-17.62	-13.42/-18.35	-15.18/-18.68	-18.31/-13.42	-18.5/-17.81	-18.41/-19.38	-14.55/-15.6	-19.17/-19.2	-12.7/-18.12	-19.22/-13.07	-12.74/-18.69	-12.36/-17.79	-17.76/-17.68		
Θ(127.5°)	-18.9/-19.17	-13.42/-12.46	-18.05/-9.29	-8.78/-17.81	-19.14/-8.81	-16.97/-11.49	-17.96/-14.58	-10.59/-9.91	-16.45/-13.7	-6.55/-12.72	-13.22/-15.81	-18.96/-18.45	-18.44/-13.39	-19.23/-19.33	-19.13/-16.74	-18.71/-18.93	-18.33/-18.21	-16.27/-16.67	-17.52/-17.29	-16.66/-17.52	-14.71/-12.28	-17.73/-17.8	-12.36/-17.9	-18.03/-17.89		
Θ(135°)	-17.82/-19.22	-14.64/-19.32	-14.36/-6.66	-11.78/-16.3	-16.22/-8.81	-14.4/-10.45	-18.48/-12.37	-14.59/-8.08	-18.12/-17.6	-7.81/-7.44	-13.03/-17.98	-15.98/-12.73	-18.18/-18.69	-18.33/-16.05	-19.03/-19.26	-19.03/-18.91	-17.78/-15.23	-18.54/-17.3	-17.75/-18.29	-15.36/-16.26	-17.35/-17.98	-18.73/-9.73	-15.4/-17.32	-18.39/-14.84		
Θ(142.5°)	-18.99/-18.47	-18.67/-15.89	-13.34/-10.77	-11.9/-17.9	-8.68/-9.61	-13.34/-12.35	-16.22/-10.17	-15.31/-9.17	-18.39/-14.9	-11.94/-6.55	-9.08/-18.18	-11.77/-17.44	-14.6/-18.67	-15.13/-13.69	-17.72/-14.45	-17.71/-17.35	-13.33/-18.19	-17.88/-13.52	-19.4/-19.04	-19.04/-17.71	-18.47/-15.62	-13.57/-13.7	-18.93/-13.62	-18.37/-15.84		
Θ(150°)	-14.49/-10.17	-18.46/-12	-8.58/-9.17	-11.21/-18.47	-12.46/-14.21	-11.72/-13.47	-16.87/-8.83	-14.57/-18.1	-18.87/-11.42	-10.15/-12.81	-13.46/-13.47	-13.45/-12.61	-16.57/-19.66	-16.76/-11.82	-13.27/-13.73	-15.71/-14.73	-18.37/-19.26	-18.09/-16.83	-13.51/-13.27	-14.17/-18.09	-17.6/-18.01	-18.89/-16.46	-17.47/-17.35	-12.56/-17.03		
Θ(157.5°)	-18.04/-12.11	-13.24/-12.72	-9.19/-11.26	-17.07/-17.31	-18.81/-15.27	-11.65/-14.61	-18.2/-14.12	-14.99/-18.07	-18.37/-10.44	-6.35/-5.38	-8.71/-17.79	-13.97/-11.6	-15.95/-14.09	-13.8/-19.23	-11.89/-12.5	-18.77/-18.66	-16.19/-14.89	-17.51/-18.87	-18.39/-17.97	-18.15/-17.49	-18.52/-17.85	-15.94/-19.3	-13.51/-17.21	-9.74/-12.25		
Θ(165°)	-18.54/-17.64	-18.61/-16.04	-15.09/-15.29	-18.49/-18.84	-18.54/-18.76	-14.87/-18.82	-16.24/-16.83	-18.61/-18.2	-17.13/-14.77	-15.91/-11.78	-8.92/-7.23	-7.88/-13.39	-18.5/-14.5	-14.09/-17.77	-13.81/-11.88	-14.02/-17.85	-19.01/-16.86	-16.76/-13.34	-19.17/-17.32	-19.82/-17.41	-17.86/-18.95	-16.21/-16.81	-18.59/-17.79	-14.42/-15.89		
Θ(172.5°)	-17.39/-18.91	-17.82/-18.11	-16.83/-16.21	-17.12/-17.02	-16.87/-18.27	-19.02/-18.3	-18.18/-13.32	-11.57/-9.88	-9.66/-9.4	-9.93/-11.63	-12.34/-14.65	-18.51/-18.82	-17.01/-16.31	-17.45/-18.87	-18.4/-19	-17.6/-16.63	-15.5/-15.74	-16.67/-16.44	-17.03/-14.92	-19.02/-17.65	-18.26/-17.92	-19.12/-17.96	-17.71/-17.57	-18.47/-18.39		
Θ(180°)	-17.94/-18.1	-18.54/-18.23	-18.61/-18.61	-18.97/-18.92	-18.43/-18.66	-18.57/-16.94	-17.3/-18.12	-17.06/-19.14	-18.94/-18.93	-18.35/-16.67	-16.3/-15.85	-15.4/-13.36	-12.98/-13.5	-14.68/-15.85	-17.44/-17.52	-17.94/-18.71	-17.84/-18.45	-19.42/-18.58	-18.9/-19.05	-17.54/-15.74	-14.08/-13.2	-13.13/-13.65	-14.92/-15.07	-15.39/-19.01		
Freq(Hz)	6.175GPol.	ThetaAnt.1	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)		
Θ(0°)	-8.15/-9.87	-12.15/-14.72	-17.56/-17.96	-16.11/-13.09	-10.63/-8.89	-7.48/-7.64	-5.96/-5.32	-5.41/-5.44	-5.61/-6.19	-6.94/-7.46	-7.5/-8.67	-10.41/-13.17	-15.04/-16.77	-18.1/-18.17	-15.77/-13.54	-11.27/-11.01	-8.72/-7.99	-7.26/-6.58	-5.94/-5.48	-6.45/-4.7	-4.53/-4.94	-5.38/-5.94	-6.51/-7.36			
Θ(7.5°)	-16.65/-17.78	-18.06/-18.34	-18.53/-17.1	-14.73/-13.47	-12.91/-11.43	-9.88/-8.44	-7.07/-5.9	-5.18/-4.37	-3.74/-3.12	-2.15/-2.63	-3.12/-3.6	-4.59/-6.09	-8.15/-10.43	-14.94/-14.28	-14.12/-13.14	-11.81/-10.34	-9.31/-8.75	-9.02/-9.47	-10.76/-12.25	-13.84/-15.17	-15.64/-16.14	-16.15/-15.69	-15.72/-16.91			
Θ(15°)	-14.47/-14.5	-16.41/-18.04	-18.5/-15.93	-12.59/-11.64	-11.15/-9.89	-10.73/-10.8	-11.93/-12.4	-12.14/-10.86	-7.8/-5.7	-3.82/-2.16	-0.96/-0.43	-0.38/-0.76	-1.51/-2.4	-3.41/-5.1	-6.44/-8.01	-8.72/-8.78	-7.75/-7.06	-7.96/-8.38	-9.49/-10.87	-10.92/-10.54	-9.99/-10.52	-12.18/-13.58	-17.21/-18.69	-19.18/-17.83		
Θ(22.5°)	-15.8/-12.55	-11.45/-10.17	-9.8/-9.1	-7.67/-6.45	-5.4/-4.82	-5.5/-7	-9.85/-13.3	-14.93/-14.25	-11.47/-8.39	-6.47/-4.77	-3.37/-2.37	-1.48/-1.19	-1.41/-1.32	-0.78/-0.59	-1.04/-1.98	-2.59/-1.43	-0.170.75	0.59/-0.7	-2.95/-6.07	-9.99/-11.87	-9.47/-6.98	-6.24/-7.47	-10.77/-14.06	-15.73		



Radiated Composite Gain Data_Radio 3 6GHz-4TX

Appendix F

Θ(22.5°)	-14.21/-10.78	-8.65/-7.31	-8.19/-10.25	-14.83/-17.52	-11.65/-6	-3/-1.77	-2.24/-3.99	-6.92/-9.45	-8.02/-4.8	-3.45/-3.64	-4.9/-7.91	-13.4/-12.95	-9.05/-8.59	-10.06/-12	-15.47/-19.25	-11.46/-7.3	-5.52/-5.13	-5.19/-3.95	-1.420/-26	1.120/-46	-1.25/-35.1	-5.58/-7.13	-9/-11.65	-15.87/-16.61
Θ(30°)	-9.88/-7.78	-7.77/-8.98	-9.86/-11.4	-11.15/-8.53	-5.69/-2.69	-0.93/-1.12	-3.56/-7.96	-12.67/-17.5	-13.27/-8.09	-5.14/-4.4	-4.74/-5.48	-8.33/-14.48	-13.85/-11.4	-12.86/-12.15	-13.58/-18.54	-17.48/-8	-4.51/-4.02	-4.69/-6.53	-6.96/-4.79	-1.93/-1.04	-3.15/-7.76	-9.53/-8.45	-9.3/-11.54	-12.2/-10.82
Θ(142.5°)	-13.42/-10.7	-8.38/-5.95	-5.2/-11	-9.33/-9.12	-9.83/-7.53	-4.63/-4.51	-5.14/-5.52	-10.44/-10.28	-7.2/-8.56	-10.11/-14.89	-16.8/-9.73	-7.58/-8.66	-5.55/-9.75	-12.41/-11.65	-14.66/-17.26	-14.66/-7.57	-5.74/-5.36	-5.99/-9.98	-13.47/-12.3	-8.69/-6.54	-9.37/-17.96	-18.54/-18.92	-10.26/-9.58	-12.43/-14.69
Θ(45°)	-14.98/-10	-6.12/-5.21	-6.89/-13.21	-13.22/-8.21	-8.01/-9.06	-15.03/-18.93	-6.92/-5.42	-14.08/-11.15	-8.85/-12.35	-6.37/-6.03	-9.87/-10.61	-10.94/-9.69	-7.53/-10.61	-12.05/-12.4	-16.29/-11.63	-12.73/-10.48	-10.45/-10.33	-9.28/-8.81	-15.54/-15.65	-15.9/-11.65	-12.12/-18.13	-17.06/-18.85	-9.75/-8.2	-13.23/-18.19
Θ(52.5°)	-9.5/-8.04	-8.06/-10.46	-18.14/-15.38	-8.84/-8	-7.05/-7.26	-18.31/-18.06	-8.66/-7.75	-18.71/-11	-18.24/-17.62	-9.87/-9.84	-9.31/-8.88	-9.06/-13.94	-17.95/-18.72	-13.77/-9.03	-9.75/-8.78	-11.43/-9.3	-9.64/-15.34	-15.52/-11.07	-16.41/-18.78	-12.84/-11.1	-10.33/-11.93	-15.57/-15.56	-7.45/-8.53	-19.51/-18.06
Θ(60°)	-12.23/-14.52	-16.33/-18.76	-18.51/-18.09	-12.28/-9.17	-9.61/-12.54	-18.87/-17.92	-18.09/-15.81	-12.54/-9.59	-16.04/-16.91	-16.04/-19.21	-18.17/-18.82	-11.94/-12.78	-17.59/-17	-18.98/-9.62	-13.36/-12.7	-14.09/-10.79	-18.18/-18.36	-12.92/-16.63	-12.49/-12.23	-13.34/-10.02	-13.35/-18.57	-8.89/-10.91	-17.09/-18.07	
Θ(67.5°)	-18.04/-18.42	-19.03/-17.23	-18.1/-18.14	-11.37/-6.93	-8.81/-18.17	-15.15/-17.1	-16.89/-14.71	-12.1/-12.6	-17.29/-18.88	-13.9/-17.36	-9.8/-13.43	-17.87/-18.9	-18.09/-14.03	-18.6/-13.43	-16.84/-17.84	-18.84/-18.53	-12.39/-18.77	-18.74/-18.88	-18.05/-18.02	-17.78/-18.67	-15.16/-10.92	-18.59/-18.77	-12.65/-16.7	-14.57/-15.45
Θ(75°)	-18.35/-15.59	-13.68/-19.61	-18.14/-17.8	-9.1/-5.4	-4.49/-16.86	-13.45/-12.42	-17.31/-15.4	-12.79/-12.47	-17.55/-18.52	-9.98/-12.25	-6.83/-10.25	-17.64/-19	-10.42/-11.88	-11.31/-18.9	-9.91/-18.65	-18.79/-18.4	-16.33/-13.61	-18.68/-17.25	-13.8/-19.19	-14.42/-18.92	-11.76/-10.95	-17.78/-14.7	-12.1/-18.57	-16.44/-14.43
Θ(82.5°)	-18.1/-11.06	-14.51/-19.09	-15.13/-15.41	-8.76/-5.23	-8.36/-17.69	-15.33/-11.5	-14.36/-12.58	-12.88/-9.66	-12.98/-19.35	-11.12/-12.59	-8.04/-11.74	-18.9/-18.13	-7.66/-17.83	-9.78/-18.55	-7.85/-18.81	-18.25/-13.91	-15.98/-9.76	-18.64/-18.13	-10.54/-15.87	-11.21/-13.79	-9.91/-12.34	-18.05/-13.69	-10.18/-18.5	-16.7/-13.4
Θ(90°)	-17.1/-12.71	-15.46/-18.64	-13.32/-18.58	-9.22/-5.03	-9.56/-17.06	-18.78/-11.19	-16.21/-12.05	-11.97/-9.36	-13.08/-18.79	-15.97/-17.77	-10.95/-17.84	-18.04/-17.49	-9.26/-18.08	-10.07/-19.17	-11.13/-17.42	-17.88/-12.55	-11.37/-8.35	-17.72/-17.96	-10.43/-17.37	-11.87/-15.83	-10.85/-14.18	-14.95/-12.03	-12.05/-18.84	-16.8/-16.75
Θ(97.5°)	-12.38/-12.96	-17.93/-12.97	-11.92/-18.15	-9.23/-6.9	-10.55/-17.12	-17.84/-11.14	-18.52/-12.62	-13.72/-10.08	-14.59/-18.97	-14.52/-15.64	-12.71/-15.92	-18.36/-18.18	-11.75/-15.15	-14.35/-18.65	-11.45/-18.06	-16.29/-12.63	-8.46/-9.56	-15.75/-14.96	-14.8/-15.4	-17.96/-17.86	-12.4/-18.19	-15.53/-11.9	-14.08/-19.14	-16.32/-18.14
Θ(105°)	-12.41/-16.48	-18.33/-10.68	-10.82/-17.88	-8.49/-8.86	-14.05/-17.59	-17.93/-12.29	-18.06/-14.07	-15.54/-11.67	-12.38/-19.01	-18.64/-13.67	-15.01/-17.79	-17.81/-18.42	-16.33/-17.4	-16.06/-19.1	-13.42/-18.35	-17.62/-16.13	-10.29/-15.23	-18.6/-14.06	-19.27/-16.32	-18.78/-18.33	-17.18/-19.18	-19.47/-12.09	-18.88/-17.8	-18.55/-17.88
Θ(112.5°)	-12.27/-17.35	-12.95/-10.03	-13.29/-18.6	-10.34/-8.96	-17.9/-17.71	-16.71/-14.51	-16.44/-17.47	-15.26/-10.33	-10.84/-17.67	-18.11/-15.36	-15.5/-15.47	-17.43/-19.22	-18.74/-17.63	-18.06/-18.01	-13.83/-19.31	-19.7/-19.12	-10.61/-18.79	-15.38/-18.9	-18.61/-16.22	-18.79/-18.07	-17.57/-15.99	-17.51/-13.08	-19.93/-15.59	-17.85/-18.25
Θ(120°)	-13.91/-18.24	-14.3/-10.23	-14.24/-18.96	-9.35/-12.28	-18.29/-13.34	-17.13/-13.34	-16.47/-16.77	-12.56/-10.36	-12.23/-18.49	-17.83/-15.44	-17.41/-14.84	-18.88/-12.73	-18.49/-17.54	-15.92/-16.05	-18.64/-14.91	-17.96/-18.51	-18.89/-16.71	-18.71/-18.88	-17.1/-17.84	-18.55/-17.39	-15.4/-12.94	-18.51/-14.92	-17.12/-19.09	-15.48/-16.99
Θ(127.5°)	-15.57/-18.77	-17.42/-10.56	-16.74/-18.41	-10.64/-18	-17.39/-11.15	-17.17/-12.44	-18.35/-17.67	-10.14/-11.68	-18.55/-17.77	-14.02/-12.82	-16.46/-17.95	-17.68/-18.85	-18.91/-15.77	-16.95/-18.18	-17.69/-13.25	-17.67/-15.46	-19.16/-15.73	-16.91/-13.1	-19.18.86	-18.22/-15.68	-15.15/-19.07	-15.51/-19.73	-18.69/-13.76	
Θ(135°)	-17.88/-18.69	-12.54/-11.54	-18.88/-17.55	-16.09/-18.58	-18.22/-9.49	-18.02/-11.7	-18.22/-13.6	-11.88/-11.27	-18.15/-18.57	-9.26/-11.28	-18.76/-14.51	-17.4/-18.58	-17.12/-15.79	-18.77/-18.81	-16.7/-17.27	-15.35/-17.5	-18.5/-19.79	-15.88/-18.95	-17.74/-18.75	-17.86/-19.11	-12.96/-17.67	-17.82/-15.12	-15.41/-18.99	-14.76/-15.09
Θ(142.5°)	-18.93/-18.65	-19.01/-18.3	-15.17/-13	-14.63/-16.15	-12.05/-6.78	-14.93/-15.35	-14.47/-10.89	-17.61/-8.77	-18.22/-19.41	-16.19/-11.62	-10.77/-17.95	-18.72/-15.28	-18.76/-18.59	-17.77/-17.59	-15.83/-17.99	-18.47/-10.97	-18.34/-15.92	-14.45/-19.14	-18.4/-14.05	-18.29/-19.09	-17.66/-15.68	-18.01/-15.66	-17.12/-19.09	-15.48/-16.77
Θ(150°)	-19.34/-15.38	-18.78/-15.56	-16.55/-13.57	-13.78/-18.65	-13.29/-16.29	-13.89/-13.2	-18.24/-11.51	-16.38/-9.67	-14.2/-15.36	-18.68/-11.94	-14.57/-14.74	-12.57/-13.39	-16.35/-16.48	-18.09/-9.52	-12.05/-18.85	-14.52/-14.21	-18.04/-16.88	-18.91/-18.23	-18.73/-18.6	-17.52/-19.08	-14.96/-15.69	-16.22/-16.49	-18.39/-16.62	-16.08/-17.17
Θ(157.5°)	-17.54/-18.32	-14.59/-17.08	-11.81/-11.88	-14.46/-17.8	-18.03/-18.6	-17.21/-18.4	-16.22/-13.39	-18.39/-18.01	-18.66/-18.96	-12.03/-8.53	-10.97/-18.42	-14.59/-17.13	-13.99/-12.6	-19.01/-17.74	-13.96/-17.41	-17.53/-17.56	-17.44/-18.54	-18.87/-16.39	-16.68/-18.59	-18.22/-18.45	-18.56/-18.86	-18.37/-18.18	-17.58/-17.28	-15.74/-13.27
Θ(165°)	-14.3/-17.25	-18.54/-15.9	-13.93/-14.94	-19.5/-18.71	-17.71/-17.53	-19.21/-18.47	-18.73/-19.33	-18.82/-18.79	-18.38/-17.65	-18.06/-19.01	-18.91/-14.63	-14.22/-19	-19.24/-15.65	-16.8/-17.89	-17.91/-18.39	-17.32/-18.56	-18.15/-18.6	-18.12/-18	-18.62/-19.17	-16.8/-17.77	-18.07/-18.83	-18.92/-18	-18.99/-18.4	-17.99/-14.77
Θ(172.5°)	-18.77/-18.55	-17.88/-17.48	-18.3/-16.7	-15.42/-14.74	-15.32/-16.4	-17.97/-18.24	-16.9/-14.49	-12.01/-11.25	-11.91/-14.33	-17.44/-18.55	-18.23/-18.54	-18.64/-18.87	-19.01/-18.23	-17.8/-18.54	-17.22/-19.13	-18.97/-17.96	-17.72/-18.11	-19/-18.67	-17.98/-18.6	-18.66/-19.4	-18.68/-19.59	-17.24/-15.5	-16.22/-18.07	
Θ(180°)	-16.46/-17.94	-17.21/-16.04	-15.72/-17.6	-19.04/-18.21	-17.63/-18.35	-17.91/-19.03	-18.01/-18.06	-18.24/-17.61	-17.79/-18.79	-18.14/-19.29	-18.16/-17.29	-18.05/-17.4	-18.17/-18.92	-18.77/-17.19	-17.78/-17.04	-18.51/-17.47	-18.57/-19.25	-17.83/-17.8	-17.91/-18.65	-17.9/-17.9	-18.68/-19.34	-18.65/-18.02	-16.73/-16.26	-15.86/-16.55
Freq(Hz)	6.995GPol.	ThetaAnt.1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-12.69/-13.26	-13.73/-13.86	-12.55/-11.34	-10.14/-9.52	-8.89/-7.93	-7.53/-7.74	-8.27/-8.55	-9.94/-11.25	-12.67/-14.89	-17.13/-17.05	-15.77/-13.86	-12.95/-11.61	-10.5/-9.96	-9.42/-9.07	-8.68/-8.85	-9.15/-9.91	-9.97/-10.29	-10.59/-10.56	-10.82/-9.95	-9.56/-8.38	-8.19/-8.44	-8.61/-8.96	-9.42/-10.26	-10.99/-11.73
Θ(7.5°)	-9.65/-10.15	-11.37/-12.21	-14.14/-16.65	-19.69/-18.8	-17.91/-14.07	-11.34/-9.72	-7.69/-6.5	-5.61/-4.7	-4.08/-3.8	-3.61/-3.75	-2.49/-5.05	-6.24/-7.54	-8.97/-10.19	-8.83/-7.05	-5.55/-8.48	-4.72/-4.95	-5.31/-6.45	-7.69/-9.15	-12.78/-16.71	-18.07/-17.89	-18.87/-18.83	-16.34/-13.34	-12.06/-10.49	-10.27/-9.92
Θ(15°)	-7.1/-6.82	-10.12/-11.29	-12.49/-12.8	-12.38/-13.08	-13.56/-15.04	-17.83/-17.89	-18.16/-14.56	-10.31/-7.47	-5.32/-3.4	-4.03/-5.18	1.07/-1.9	0.83/-0.81	-2.9/-4.48	-4.74/-3.89	-3.15/-3.11	-3.84/-7.3	-6.08/-9.55	-16.52/-17.54	-10.73/-6.51	-4.77/-4.34	-4.28/-4.5	-4.4/-4.45	-4.72/-5.59	
Θ(22.5°)	-4/-4.63	-7.94/-8.33	-6.37/-4.32	-3.31/-4.1	-5.66/-7.3	-7.71/-8.02	-10.25/-14.36	-13.58/-10.85	-10.14/-8.31	-6.04/-3.59	-1.64/-0.49	0.590.98	0.91/-0.04	-2.11/-4.59	-6.25/-4.15	-2.2/-1.7	-1.46/-1.26	-1.37/-2.04	-3.73/-7.42	-14.06/-13.32	-10.85/-9.81	-9.57/-7.43	-4.36/-2.63	-2.5/-3.31
Θ(30°)	-4.14/-4.1	-5.42/-6.8	-5.89/-1.87	0.280/-2	-1.26/-3.18	-3.34/-3.3	-5.08/-9.98	-17.99/-16.7	-12.55/-10.6	-8.1/-6.3	-6.09/-4.52	-3.92/-3.37	-3.18/-3.36	-3.88/-6.46	-7.31/-4.27	-0.280/-46	-0.58/-1.93	-2.84/-3.05	-2.47/-2.18	-2.08/-2.51	-3.78/-4.66	-7.16/-17.29	-12.32/-8.4	-7.74/-6.07
Θ(37.5°)	-0.931/-2.4	1.340/-7.8	-1.52/-2.79	-0.280/-26	-0.88/-0.25	0.2/-2.58	-6.97/-8.52	-9.15/-10.68	-6.08/-4.52	-3.07/-1.39	-1.1/-0.69	-0.68/-2.16	-4.95/-8.9	-11.09/-19.59	-16.74/-3.68	0.560/-25	-2.1/-3.54	-4.98/-6.03	-6.34/-5.93	-5.49/-4.44	-4.53/-3.93	-5.26/-15.41	-13.13/-13.59	-13.23/-6.15
Θ(45°)	0.052/-7.6	3.45/-9.25	1.19/-3.03	-1.88/-1.31	-0.622/-69	3.71/-0.3	-2.43/-3.35	-3.6/-5.21	-2.030/-16	0.4/-0.94	1.41/-0.22	2.390.88	-2.82/-7.09	-8.54/-14.46	-9.37/-4.5	-3.11/-5.42	-8.52/-4.5	-3.79/-5.43	-5.32/-5.27	-6.17/-7.15	-16.71/-7.41	-8.28/-18.68	-12.59/-12.58	-10.14/-8.88
Θ(52.5°)	-2.881/-0.8	2.172/-9.4	3.992/-27	1.110/-9.6	1.993/-9.4	4.051/-22	-1.17/-0.88	-1.14/-1.15	2.114/-0.9	4.874/-43	2.631/-68	2.021/-51	-0.79/-2.85	-3.47/-8.92	-11.47/-5.19	-6.06/-15.71	-9/-4.76	-1.25/-1.65	-0.77/-1.53	-6.1/-9.18	-8.71/-15.94	-15.21/-17.73	-12.95/-12.55	-10.16/-7.16
Θ(60°)	-4.42/-0.8	-0.22/-12.2	4.85/-36	3.261/-45	2.654/-76	4.14/-0.18	-3.73/-0.56	1.361/-88	3.584/-0.3	5.625/-7.2	3.291/-0.7	0.962/-46	2.0/-26	-12.03/-4.1	-3.34/-8.9	-3.98/-7.96	-2.72/-1.47	0.19/-1.8	-6.5/-12.5	-10.64/-14.66	-14.63/-16.76	-17.96/-18.46	-12.94/-8.72	
Θ(67.5°)	-1.95/-0.75	-2.210/-37																						



Radiated Composite Gain Data_Radio 3 6GHz-4TX

Appendix F

Θ(75°)	-18.05/-13.03	-8.09/-10.15	-13.95/-17.33	-18.11/-12.44	-10.96/-14.62	-14.49/-16.82	-18.61/-12.09	-17.17/-12.56	-14.02/-9.95	-7.91/-6.06	-6.12/-9.11	-14.61/-13.97	-12.12/-9.14	-11.79/-5.6	-10.19/-14.32	-16.71/-8.74	-8.42/-18.43	-14.66/-13.57	-13.78/-18.78	-18.46/-18.11	-12.32/-18.19	-8.64/-12.21	-14.83/-9.16	-13.51/-19.35
Θ(82.5°)	-11.06/-9.29	-6.92/-10.5	-13.32/-15.76	-17.03/-13.95	-10.51/-16.14	-12.29/-19.08	-18.17/-12.52	-13.53/-10.31	-12.12/-11.87	-9.63/-6.87	-5.01/-6.54	-8.43/-18.57	-11.56/-16.26	-12.74/-8.69	-9.72/-9.1	-17.49/-11.38	-8.27/-10.2	-12.98/-6.97	-16.97/-18.81	-18.44/-15.27	-18.67/-12.97	-8.61/-12.66	-12.53/-11.64	-17.09/-16.49
Θ(90°)	-9.86/-7.33	-8.47/-14.44	-9.14/-15.23	-17.18/-13.33	-10.29/-13.18	-12.58/-18.47	-17.23/-14.56	-11.95/-9.85	-10.31/-11.62	-11.95/-6.58	-5.61/-6.32	-6.82/-13.91	-11.32/-19.24	-14.53/-10.62	-10.03/-10.43	-18.98/-17.57	-8.22/-9.05	-17.47/-7.57	-17.45/-18.01	-17.05/-11.99	-12.61/-15.24	-13.96/-18.12	-7.88/-11.06	
Θ(97.5°)	-8.11/-8.11	-9.82/-17.61	-12.93/-16.31	-13.71/-13.56	-12.75/-11.78	-14.08/-18.47	-18.75/-14.82	-11.82/-8.08	-10.99/-11.71	-15.45/-11.5	-8.62/-7.83	-7.55/-10.51	-11.53/-19.16	-13.52/-17.28	-9.89/-10.32	-18.01/-14.25	-11.49/-10.37	-18.43/-9.98	-18.34/-18.83	-19.43/-16.97	-14.88/-10.52	-12.64/-17.69	-14.17/-18.06	-18.86/-11.27
Θ(105°)	-9.45/-9.3	-15.55/-17.55	-12.28/-16.89	-13.47/-12.37	-13.51/-13.3	-15.18/-17.07	-19.06/-16.88	-14.87/-9.89	-10.78/-11.35	-14.86/-15	-12.55/-8.74	-9.4/-8.4	-13.63/-13.2	-16.95/-16.28	-15.61/-13.2	-16.41/-18.91	-15.56/-11.02	-17.06/-13.41	-17.61/-18.58	-18.44/-18.96	-14.03/-11.93	-17.92/-18.26	-17.39/-19.01	-15.44/-9.26
Θ(112.5°)	-9.01/-13.1	-18.78/-14.88	-11.01/-13.42	-11.57/-11.73	-19.01/-12.98	-13.79/-17.88	-17.46/-17.95	-18.04/-7.92	-12.36/-14.17	-14.12/-15.16	-18.74/-9.96	-9.6/-11.38	-10.41/-16.93	-12.64/-18.62	-16.17/-15.06	-18.38/-18.09	-17.13/-12.13	-15.78/-18.95	-16.85/-18.13	-17.69/-18.36	-9.37/-16.76	-18.68/-15.93	-19.07/-18.43	-14.59/-10
Θ(120°)	-15.47/-19.13	-18.58/-9.96	-11.95/-17.65	-15.28/-12.19	-18.18/-15.3	-12.3/-18.06	-15.16/-19.48	-17.02/-10.88	-13.05/-14.19	-15.28/-15.72	-19.78/-15.29	-10.04/-11.04	-18.48/-12.95	-18.38/-17.26	-19.02/-15.15	-18.67/-18.06	-18.72/-14.24	-16.95/-18.67	-17.98/-17.34	-18.15/-13.15	-13.03/-17.37	-18.91/-17.68	-18.05/-15.18	-14.25/-11.16
Θ(127.5°)	-18.94/-18.22	-14.65/-10.78	-16.61/-18.96	-13.66/-15.47	-19.03/-17.96	-17.85/-16.31	-17.97/-14.4	-19.19/-16.55	-14/-16.62	-12.1/-9.67	-15.07/-17.76	-17.02/-15.72	-18.5/-14.27	-17.8/-13.71	-18.13/-17.87	-19.1/-17.6	-16.08/-18.54	-16.29/-18.74	-17.66/-15.71	-18.63/-18.96	-13.89/-18.48	-17.87/-18.19	-18.54/-15.18	-12.61/-15.27
Θ(135°)	-17.31/-14.91	-16.27/-17.84	-19.21/-18.47	-18.69/-16.5	-13.7/-18.93	-17.71/-18.99	-18.94/-17.54	-17.65/-18.28	-13.79/-14.09	-18.41/-12.21	-11.73/-17.6	-18.59/-18.61	-17.79/-17.87	-18.91/-18.4	-17.59/-16.13	-18.13/-13.15	-18.13/-19.26	-19.02/-17.81	-18.94/-12.09	-17.99/-17.38	-14.23/-14.21	-18.89/-17.9	-18.43/-16.23	-18.74/-19.04
Θ(142.5°)	-17.98/-17.68	-18.75/-17.93	-18.7/-14.6	-14.12/-14.29	-18/-17.48	-18.69/-18.27	-18.44/-17.95	-18.96/-17.84	-18.92/-18.95	-18.11/-14.58	-15.77/-18.73	-12.91/-10.65	-18.16/-17.56	-13.96/-17.68	-13.47/-13.08	-18.6/-19.14	-18.77/-18.87	-19.32/-17.76	-18.14/-14.21	-17.49/-14.94	-17.93/-19.52	-15.67/-17.94	-18.83/-18.38	-19/-18.73
Θ(150°)	-15.38/-18.26	-18.29/-18.01	-18.77/-14.52	-14.08/-16.68	-18.96/-18.42	-17.86/-18.93	-17.81/-18.32	-18.28/-15.27	-18.12/-17.73	-16.94/-15.69	-15.81/-9.28	-11.86/-14.79	-16.06/-13.55	-10.96/-13.81	-18.58/-15.22	-17.07/-17.23	-18.59/-17.97	-18.24/-18.74	-17.86/-18.4	-18.19/-18.18	-19.57/-19.06	-17.6/-17.86	-18.08/-15.89	-17.37/-18.13
Θ(157.5°)	-15.38/-18.72	-18.13/-15.76	-14.14/-15.46	-16.65/-17.99	-18.7/-18.62	-18.91/-17.35	-18.87/-18.38	-17.63/-19.04	-18.15/-18.59	-17.21/-17.14	-18.92/-18.96	-16.08/-14.1	-16.56/-17.91	-19.07/-18.3	-18.06/-17.84	-18.14/-18.06	-18.11/-19.13	-19.58/-17.7	-18.94/-18.47	-18/-18.94	-16.59/-19	-16.09/-19.67	-17.96/-17.58	-18.41/-17.14
Θ(165°)	-13.84/-13.63	-15.96/-14.49	-19.56/-18.8	-17.59/-19.02	-18.46/-19.1	-17.56/-17.67	-18.19/-18.87	-18.9/-18.88	-13.56/-13.93	-17.91/-18.79	-18.35/-16.68	-16.59/-15.93	-18.31/-18.86	-18.85/-17.23	-18.67/-19	-17.44/-17.97	-18.76/-17.92	-16.11/-18.33	-18.86/-18.05	-18.5/-18.6	-18.97/-16.76	-18.23/-15.37	-13.64/-18.9	-18.15/-13.76
Θ(172.5°)	-16.75/-14.92	-18.17/-17.17	-15.34/-16.68	-15.5/-14.36	-19.21/-17.75	-18.37/-16.6	-17/-16.07	-17.82/-16.32	-18.68/-16.69	-17.41/-13.7	-12.71/-11.71	-11.86/-12.91	-15.61/-16.65	-18.92/-18.98	-18.02/-17.03	-14.87/-18.08	-17.99/-18.66	-19.04/-18.35	-19.22/-17.82	-13.32/-15.69	-12.37/-14.23	-15.53/-13.35	-16.66/-18.12	-17.59/-15.54
Θ(180°)	-16.92/-15.55	-12.62/-13.71	-15.19/-13.93	-13.75/-14.24	-13.32/-16.31	-15.87/-18.19	-19.39/-17.91	-18.98/-17.66	-18.88/-18.32	-13.14/-12.99	-14.11/-13.63	-17.13/-19.27	-16.76/-16.64	-16.57/-14.11	-12.67/-14.98	-16.31/-14.86	-15.73/-17.37	-17.31/-17.64	-17.4/-18.49	-19.17/-18.21	-18/-17.91	-18.08/-18.51	-17.99/-17.81	-17.13/-17.24
Freq(Hz)	6.175GPdL	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°)	-11.03/-12.36	-12.97/-11.31	-9.12/-7.31	-6.83/-5.56	-4.47/-6.2	-3.77/-3.79	-3.44/-3.07	-3.4/-3.38	-3.48/-4.24	-5.14/-5.28	-5.67/-7.89	-9.46/-11.43	-14.93/-17.62	-18.02/-18.23	-14.55/-12.29	-8.82/-7.5	-5.83/-5.43	-3.85/-3.23	-3.07/-2.54	-2.55/-2.54	-2.69/-2.82	-3.9/-4.37	-5.63/-6.52	-7.88/-10.32
Θ(7.5°)	-9.55/-11.8	-13.32/-15.1	-17.05/-13.04	-10.4/-8.75	-6.62/-4.69	-4.26/-2.76	-2.23/-2.01	-1.25/-1.33	-1.35/-2.03	-2.85/-4.04	-5.12/-6.59	-7.93/-9.29	-9.62/-9.67	-8.85/-7.78	-7.35/-7.11	-6.52/-6.09	-5.18/-5.23	-4.8/-4.4	-4.8/-4.33	-3.95/-4.32	-4.39/-3.66	-4.57/-4.48	-4.45/-5.23	-6.54/-7.98
Θ(15°)	-3.99/-5.29	-5.95/-6.1	-5.51/-3.48	-3.55/-3.63	-3.5/-3.51	-3.13/-2.77	-2.05/-0.61	-0.40/-3.4	0.28/-0.13	-1.17/-2.02	-4.16/-5.82	-6.21/-5.71	-4.98/-4.83	-5.56/-6.16	-6.33/-5.17	-5.34/-4.14	-2.71/-3.25	-2.21/-2.67	-3.09/-4.25	-5.4/-6.17	-7.63/-4.88	-9.01/-7.11	-5.17/-3.28	-2.8/-2.85
Θ(22.5°)	-7.07/-8.35	-8.8/-8.48	-7.28/-6.33	-5.93/-6.4	-6.65/-6.45	-6.79/-6.28	-6.23/-7.36	-7.89/-9.16	-10.17/-12.4	-6.05/-4.93	-8.28/-2.95	-1.88/-2.74	-4.11/-4.88	-3.81/-1.25	-0.57/-5.95	2.592.83	2.522.23	0.93/-0.78	-0.84/-1.13	-1.68/-1.05	-1.89/-3.95	-6.43/-4.92	-7.76/-7.65	
Θ(30°)	-12.07/-12.44	-11.02/-10.49	-12.21/-15.33	-17.13/-19.01	-12.08/-6.6	-3.62/-2.85	-1.9/-1.68	-1.59/-1.74	-2.12/-4.33	-5.68/-5.45	-3.97/-1.43	0.08/-0.57	-2.15/-4.87	-5.2/-4.83	-1.620.03	0.370.45	1.673.16	3.824.12	3.82.11	0.3/-2.51	-4.37/-2.38	-0.05/-0.98	-3.86/-5.63	-17.87/-13.55
Θ(37.5°)	-6.67/-6.22	-9.63/-18.65	-16.48/-11.15	-6.41/-3.44	-1.44/-2.3	-2.77/-2.1	-0.360.36	-0.22/-0.58	-1.02/-1.16	-0.58/-0.13	-1.87/-1	0.18/-2.08	-1.65/-1.14	-1.46/-1.8	-0.40/-1.7	2.192.59	3.353.42	3.053.59	2.911.11	1.210.73	-1.28/-4.12	-3.6/-1.43	-2.93/-7.1	-18.66/-13.69
Θ(45°)	-5.65/-5.13	-4.48/-9.65	-10.73/-4.33	-3.04/-1.2	-1.51/-5.34	-6.6/-4.31	-1.120.06	-0.30/-15	-0.52/-1.92	1.061.74	1.13/-3.56	-3.8/-3.23	-1.2/-1.8	1.1422.27	3.082.28	2.522.95	4.053.37	2.163.63	2.36/-0.25	-1.39/-0.11	-0.53/-4.72	-18.44/-7.28		
Θ(52.5°)	-14.09/-8.33	-4.58/-8.81	-8.65/-2.93	-5.29/-8.43	-12.77/-3.44	0.952.93	3.913.53	2.191.56	0.80/-0.2	-1.092.79	0.71/-3.55	-10.87/-3.33	-1.43/-0.03	3.855.29	4.82.71	2.234.23	4.645.1	4.815.36	6.095.9	5.035.51	3.620.96	0.31/-4.8	1.1/-2.47	-13.39/-7.5
Θ(60°)	-10.56/-17.98	-7.76/-10.56	-4.96/-3.83	-17.68/-6.71	-2.70/-4.1	2.554.24	5.224.79	4.31/-0.84	7.072.92	0.442.71	-1.05/-3.22	-5.43/-3.28	-2.65/-1.17	4.3205.79	4.273.4	2.283.82	5.1865.79	4.43.93	4.865.19	4.684.6	2.080.8	0.570.2	1.69/-2.38	-7.82/-6.89
Θ(67.5°)	-5.51/-5.75	-10.1/-7.28	-3.99/-6.06	-6.92/-0.13	-0.210.06	1.622.86	2.682.89	2.544.63	3.072.41	2.31.98	-2.95/-1.36	-2.34/-3.05	-5.55/-1.24	3.694.01	3.03.96	2.472.92	3.523.91	2.08/-0.59	0.772.27	3.013.25	-0.28/-1.21	0.160.6	1.52/-3.24	-4.58/-5.92
Θ(75°)	-4.65/-6.53	-10.01/-2.82	-4.09/-7.07	-2.18/-1.1	-0.38/-2.99	-0.1/-0.34	-1.3/-1.23	1.163.36	3.481.58	1.595.5	-1.82/-1.72	-0.42/-2.13	-9.01/-2.17	1.291.34	2.124.89	2.912.36	3.182.22	2.170.11	-1.20/-26	-0.822.27	-0.95/-2.97	-0.21/-0.2	1.33/-3.26	-3.83/-7.15
Θ(82.5°)	-4.28/-9.33	-7.29/-15.5	-5.78/-5.72	-0.5/-1.	-2.38/-3.98	-1.89/-1.09	0.77/-0.69	-1.192.32	3.91/-0.26	0.512.48	-1.51/-1.6	-1.49/-2.68	-11.25/-2.96	-1.06/-0.72	0.523.83	1.721.91	4.12.69	3.193.73	1.970.09	-2.59/-1.67	-2.72/-5.54	-0.730.24	0.75/-2.41	-5.27/-7.5
Θ(90°)	-4.89/-7.12	-5.09/-1.47	-7.2/-5.01	-1.21/-0.11	-2.44/-0.06	-2.04/-0.41	0.01/-0.69	-1.832.03	3.25/-2.06	-0.551.19	-0.81/-3.85	-2.98/-4.5	-17.42/-5.43	-3.82/-4.52	-1.322.44	0.620.28	2.132.26	3.673.34	3.07.5	-2.41/-1.32	-3.56/-5.49	-2.62/-1.16	-0.58/-5.97	-9.18/-5.9
Θ(97.5°)	-5.13/-7.33	-3.95/-1.47	-9.37/-5.66	-1.84/-1.88	-3.15/-3.95	-1.41/-1.07	0/-1.05	-2.440.65	2.63/-2.68	-2.47.0	-1.67/-5.55	-3.77/-4.64	-10.85/-7.41	-7.46/-7.3	-1.910.8	-0.42/-2.87	-2.91/-0.71	0.690.21	0.28/-2.9	-5.69/-6.19	-5.75/-4.66	-4.69/-3.03	-2.82/-8.66	-14.6/-23
Θ(105°)	-6.67/-8.66	-4.74/-2.65	-11.74/-8.21	-3.76/-4.38	-3.69/-2.65	-1.31/-1.66	-0.12/-0.52	-2.39/-0.66	0.21/-3.22	-5.34/-2.23	-2.64/-5.88	-4.69/-4.69	-13.13/-6.24	-17.46/-10.35	-3.93/-4.17	-0.87/-3.26	-3.54/-3.65	-3.8/-2.55	-1.49/-5.09	-7.24/-8.27	-10.73/-8.81	-4.13/-4.64	-5.61/-13.25	-16.84/-7.66
Θ(112.5°)	-9.53/-10.52	-5.99/-4.61	-18.04/-10.58	-5.45/-6.01	-5.29/-2.42	-2.9/-1.72	-0.62/-0.76	-3.83/-4.66	-1.73/-4.76	-9.48/-5.78	-4.13/-6.56	-4.96/-2.75	-8.94/-7.34	-17.97/-18.78	-8.01/-7.1	-1.99/-7.15	-4.44/-1.67	-7.04/-2.97	-2.91/-4.69	-6.39/-10.32	-9.2/-1.47	-5.94/-8.02	-10.77/-17.95	-11.73/-7.83
Θ(120°)	-10.93/-12.81	-7.31/-10.4	-19.25/-13.9	-7.98/-7.64	-5.9/-3.73	-1.87/-3.11	-2.19/-0.22	-3.24/-4.82	-1.93/-4.51	-13.98/-9.85	-7.32/-10.28	-6.42/-3.77	-7.56/-9.79	-18.63/-18.96	-12.62/-8.99	-6.4/-71	-4.56/-5.97	-3.13/-4.63	-6.13/-2.26	-10.34/-10.05	-16			



Radiated Composite Gain Data_Radio 3 6GHz-4TX

Appendix F

Θ(120°)	-18.49/-18.3	-10.61/-10.86	-16.68/-16.16	-12.97/-18.5	-17.85/-18.76	-18.71/-18.82	-17.73/-18.31	-18.17/-18.26	-13.85/-14.57	-11.65/-10.44	-10.45/-8.68	-15.22/-12.62	-16.08/-12.94	-16.98/-16.63	-18.72/-17.78	-19/-18.21	-18.31/-16.7	-18.89/-17.48	-18.12/-17.74	-18.12/-16.47	-19.28/-17.5	-16.64/-14.81	-15.35/-19.07	-18.75/-12.39
Θ(127.5°)	-18.76/-17.51	-15.89/-13.26	-16.27/-15.98	-14.47/-17.03	-18.74/-16.37	-17.99/-18.15	-18.21/-17.37	-17.9/-17.92	-18.15/-17.94	-13.26/-11.62	-12.65/-8.82	-18.57/-13.24	-18.5/-14	-18.41/-13.13	-17/-19.08	-16.87/-18.74	-19.09/-17.89	-17.8/-18.9	-15.29/-16.88	-15.6/-15.42	-12.83/-9.73	-18.93/-11.66	-18.09/-17.32	-18.81/-18.82
Θ(135°)	-17.34/-15.33	-15.23/-16.23	-17.3/-18.87	-16.96/-19.03	-18.68/-15.56	-15.97/-18.27	-17.82/-19.37	-18.43/-18.83	-18.48/-16.31	-18.28/-19.15	-14.94/-13.65	-14.35/-10.08	-17.8/-17.71	-18.77/-19.19	-17.32/-18.99	-18.26/-17.15	-18.11/-19.12	-18.31/-18.12	-17.6/-16.47	-18.75/-16.54	-16.58/-13.14	-14.59/-18.17	-18.41/-18.68	
Θ(142.5°)	-18.5/-19.13	-18.82/-18.01	-18.72/-18.9	-17.29/-17.6	-16.63/-16.42	-16.64/-19.29	-18.98/-19.18	-18.82/-17.84	-18.72/-19.38	-17.13/-18.31	-17.97/-18.7	-14.35/-19.31	-15.09/-17.61	-17.68/-16.38	-19.25/-13.97	-18.22/-17.45	-19.01/-18.47	-18.12/-18.18	-17.67/-17.9	-18.05/-17.92	-18.87/-17.67	-18.81/-14.59	-18.85/-16.75	-19.17/-18.11
Θ(150°)	-18.97/-18.19	-18.49/-16.77	-18.84/-18.6	-15.85/-14.52	-18.38/-17.69	-18.79/-18.96	-17.69/-18.34	-19.03/-18.56	-18.79/-18.36	-16.33/-17.85	-18.5/-18.32	-19.03/-18.51	-14.37/-18.42	-17.67/-16.89	-15.4/-17.78	-18.1/-19.1	-17.96/-19.01	-18.97/-16.61	-18.31/-18.1	-18.08/-19.4	-15.75/-18.64	-19.23/-14.75	-16.13/-18.67	-18.09/-18.62
Θ(157.5°)	-18.05/-15.04	-14.03/-14.5	-16.11/-18.66	-15.41/-15	-17.64/-16.61	-14.19/-18.87	-18.41/-17.76	-19.38/-18.46	-17.76/-19.08	-18.66/-16.39	-15.89/-17.89	-18.38/-14.56	-16.67/-17.75	-17.66/-18.73	-18.36/-18.44	-18.85/-18.08	-18.99/-17.62	-18.34/-18.39	-19.16/-17.74	-18.51/-18.29	-17.43/-17.69	-17.68/-17.99	-17.16/-18.67	
Θ(165°)	-18.73/-17.54	-17.48/-18.83	-19.52/-18.91	-19.43/-16.51	-19.02/-18.5	-18.15/-18.07	-19.25/-18.52	-18.28/-18.74	-17.88/-18.74	-17.84/-16.93	-14.42/-15.32	-15.71/-16.94	-17.78/-18.08	-18.67/-18.07	-19.12/-16.44	-18.58/-17.61	-18.77/-18.5	-18.67/-19.16	-19.01/-18.48	-17.84/-18.72	-18.52/-15.26	-17.22/-18.35	-18.96/-17.65	-19.16/-17.66
Θ(172.5°)	-19.16/-18.47	-18.75/-18.8	-18.54/-18.37	-17.91/-18.21	-18.8/-17.98	-17.97/-18.69	-17.66/-18.54	-18.61/-18.7	-18.08/-18.51	-17.85/-18.43	-17.84/-18.46	-17.29/-17.95	-18.72/-19.07	-18.54/-17.85	-19.06/-18.17	-18.29/-18.1	-17.79/-18.93	-18/-18.65	-18.89/-17.92	-18.95/-19.1	-18.5/-18.51	-18.46/-18.74	-17.83/-17.83	-18.22/-17.93
Θ(180°)	-18.37/-18.92	-17.92/-17.8	-17.63/-17.94	-17.71/-19.15	-19.07/-18.9	-17.87/-17.93	-19.1/-18.72	-18.08/-18.32	-18.68/-18.24	-18.39/-18.29	-18.55/-16.67	-18.11/-16.49	-17.82/-17.57	-17.47/-19.14	-18.76/-19.1	-18.61/-18.45	-18.71/-18.89	-19.01/-17.99	-19.08/-17.74	-18.17/-18.58	-17.85/-17.86	-18.35/-18.14	-17.58/-18.43	
Freq(Hz)	6.895GPdL	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°)	-8.03/-7.48	-6.33/-5.47	-4.49/-3.11	-2.36/-1.8	-1.08/-1.09	-0.61/-0.54	-0.79/-0.87	-1.12/-1.31	-1.65/-2.49	-3.52/-4.32	-6.15/-6.97	-8.39/-10.69	-10.62/-13.43	-11.58/-9.89	-7.24/-5.21	-4.23/-2.4	-1.75/-0.7	-0.64/-0.09	-0.17/-0.26	-0.34/-0.77	-1.44/-2.94	-3.74/-5.29	-6.84/-9.69	
Θ(7.5°)	-16.2/-18.97	-18.64/-13.56	-9.65/-6.36	-4.61/-3.21	-1.64/-1.38	-0.62/-0.08	0.21/-0.49	0.47/-0.31	0/-0.54	-1.67/-2.43	-4.22/-5.58	-6.3/-6.74	-6.46/-6.03	-4.93/-4.38	-3.07/-2.63	-2.47/-1.96	-1.54/-1.36	-0.77/-0.95	-0.74/-0.65	-0.93/-1.56	-1.27/-2.48	-3.47/-4.82	-5.82/-7.32	-10.07/-12.93
Θ(15°)	-6.45/-7.49	-8.17/-7.23	-6.19/-5.29	-4.93/-4.59	-4.44/-4.76	-4.94/-4.14	-5.91/-5.85	-5.82/-5.91	-5.22/-4.79	-4.46/-5.11	-4.88/-5.61	-5.24/-4.58	-3.81/-3.49	-2.78/-2.29	-2.53/-3.08	-4.1/-0.55	-6.47/-8.53	-10.06/-10.25	-10.3/-9.06	-6.94/-5.84	-3.79/-2.91	-2.06/-1.7	-1.59/-2.92	-4.24/-5.93
Θ(22.5°)	-8.11/-13.83	-18/-16.77	-14.68/-14.54	-6.15/-10.02	-6.17/-6.8	-5.93/-6.7	-7.71/-7.93	-6.68/-5.57	-5.21/-6.81	-8.72/-13.48	-12.79/-9.26	-7.59/-5.39	-0.39/-1.94	-0.39/-1.19	-2.32/-3.8	-5.53/-4.48	-1.69/-2.57	-2.53/-1.53	-1.8/-2.22	-2.17/-1.95	-3.53/-3.67	-3.37/-2.74	-2.15/-4.45	
Θ(30°)	-8.44/-17.71	-13.16/-11.09	-13.08/-10.34	-6.79/-4.34	-3.74/-2.74	-2.67/-3.2	-2.76/-3.38	-5.52/-7.75	-5.93/-3.66	-3.32/-3.63	-4.41/-6.3	-8.55/-5.35	-2.27/-0.99	-1.42/-1.57	-2.61/-2.85	-0.68/-0.42	1.59/-1.64	1.17/-0.33	-0.39/-1.96	-1.4/-0.76	0.07/-0.01	0.18/-2.07	-3.32/-4.47	-3.58/-3.72
Θ(37.5°)	-5.14/-9.72	-11.71/-8.01	-7.46/-5.58	-4.27/-3.87	-2.88/-3.24	-3.73/-2.79	-1.81/-1.46	-1.47/-1.77	-3.14/-8.3	-2.48/-0.96	-1.13/-3.43	-5.47/-4.96	-4.25/-3.7	-3.12/-1.03	0.20/-45	1.14/-1.34	3.01/-3.4	3.03/-1.6	2.19/-2.26	0.92/-2.65	-2.78/-0.68	1.06/-0.7	-4.94/-7.53	-5.13/-3.67
Θ(45°)	-3.48/-5.28	-8.64/-5.44	-3.72/-4.97	-9.59/-13.29	-4.71/-3.08	0.24/-0.06	2.91/-2.1	0.60/-86	1.43/-11	-0.89/-0.2	-0.99/-3.42	-6.41/-5.31	-9.3/-5.47	-1.15/-0.53	1.42/-2.45	1.92/-0.06	-0.47/-1.15	2.23/-81	1.66/-157	1.16/-1.09	-5.86/-2.75	1.14/-102	-4.46/-10.56	-8.13/-5.48
Θ(52.5°)	-5.67/-9.37	-7.76/-4.32	-3.91/-5.94	-7.1/-4.98	-2/-0.13	0.92/-1.8	2.33/-13	1.91/-123	2.46/-103	1.13/-84	0.15/-7.78	-9/-9.2	-10.54/-5.58	-0.91/-1.93	2.26/-21	1.56/-121	2.11/-039	4.48/-4.59	5.29/-5.7	4.65/-2.75	-0.17/-0.42	1.43/-0.56	-2.33/-3.75	-4.96/-5.59
Θ(60°)	-10.07/-11.2	-6.13/-6.83	-4.82/-5.35	-3.1/-2.77	-1.91/-1.09	-0.44/-0.53	0.88/-152	1.76/-105	1.40/-27	-0.72/-09	0.69/-6.23	-7.63/-5.96	-8.16/-8.71	-1.19/-2.81	1.61/-11	0.52/-101	2.03/-24	4.05/-31	5.44/-7.2	4.09/-2	0.98/-83	1.35/-0.91	-0.71/-0.2	-2.23/-4.84
Θ(67.5°)	-12.76/-8.86	-2.28/-10.32	4.22/-4.79	-4.48/-3.71	-1.25/-0.55	-0.54/-0.66	3.76/-3.33	2.67/-109	0.15/-0.9	-2.67/-0.47	0.76/-4.5	-6.49/-2.22	-5.44/-8.71	0.33/-294	-0.44/-3.51	-3.25/-102	1.46/-218	2.28/-105	3.07/-4.58	2.38/-0.08	-2.22/-0.4	-0.39/-1.07	-1.14/-1.79	-2.76/-3.94
Θ(75°)	-11.42/-8.05	-0.58/-8.84	-4.02/-6.73	-3.69/-3.28	-0.05/-1.18	0.76/-1.69	4.23/-87	2.90/-64	-0.12/-1.3	-4.34/-1.72	-1.21/-1.17	-10.25/-0.59	-3.95/-12.22	-0.46/-2.3	0.69/-2.37	-2.92/-0.33	0.88/-2.57	0.76/-2.71	0.85/-43	2.73/-2.02	-6.85/-1.09	-2.99/-0.98	-0.41/-1.06	-5.15/-6.38
Θ(82.5°)	-9.28/-6.26	0.01/-7.5	-3.41/-7.86	-4.56/-3.26	-1.03/-1.61	2.42/-94	4.04/-38	1.52/-0.49	-0.32/-1.27	-4.66/-7.03	-2.04/-0.19	-8.42/-0.76	-4.64/-13.52	-0.37/-0.53	0.24/-1.83	-2.93/-1.3	1.43/-25	1.69/-88	1.02/-0.05	2.09/-9.4	-6.19/-3.4	-3.57/-1.01	-0.39/-0.46	-9.33/-9.09
Θ(90°)	-8.67/-5.12	0.09/-8.37	-4.77/-6.83	-4.78/-4.72	-1.5/-0.07	3.66/-102	1.38/-293	1.71/-0.6	-1.73/-1.42	-5.16/-7.3	-3.06/-1.06	-4.47/-2.29	-4.23/-12.43	-3.48/-2.73	-0.06/-3.67	0.37/-103	1.42/-217	0.11/-339	1.23/-2.33	-7.17/-6.65	-5.61/-0.68	0.32/-3.78	-14.97/-12.71	
Θ(97.5°)	-8.47/-5.67	-0.52/-8.64	-7.54/-6.91	-5.44/-6.42	-3.57/-0.23	3.08/-1.15	-0.99/-0.73	2.37/-2.08	-4.17/-2.67	-5.19/-9.28	-4.47/-2.38	-4.68/-3.88	-5.17/-10.96	-6.94/-4.68	-1.03/-5.27	-3.16/-4.86	-1.82/-2.76	-1.08/-0.72	-2.05/-0.45	-2.56/-9.13	-16.83/-7.73	-6.96/-2.2	0.59/-4.74	-18.74/-19.24
Θ(105°)	-9.06/-7.3	-2.61/-9.5	-10.26/-6.8	-6.27/-5.46	-3.73/-0.79	1.85/-0.93	-2.07/-0.01	0.54/-3.18	-4.65/-4.21	-5.63/-13.73	-7.46/-3.11	-5.03/-4.75	-5.17/-10.03	-8.26/-3.4	-3.32/-8.97	-4.38/-4.02	-7.26/-7.39	-5.45/-6.88	-6.71/-7.6	-11.56/-6.43	-6.3/-3.79	-2.15/-2.73	-17.67/-18.39	
Θ(112.5°)	-9.31/-7.93	-5.14/-14.31	-14.25/-7.93	-6.99/-6.56	-4.02/-5.1	-1.26/-2.44	-3.47/-1.78	-2.88/-4.07	-3.83/-5.76	-16.42/-12.98	-10.25/-7.6	-7.37/-8.3	-8.19/-11.47	-11.71/-6.8	-3.38/-7.65	-5.69/-5.1	-4.33/-3.84	-2.13/-4.77	-3.03/-7.92	-14.45/-6.18	-5.83/-12.73	-5.83/-12.55	-18.59/-18.21	
Θ(120°)	-10.17/-9	-9.51/-17.89	-19.2/-8.99	-8.95/-7.39	-5.21/-3.98	-3.21/-5.22	-6.02/-4.71	-3.45/-6.87	-5.87/-4.45	-7.55/-9.72	-11.61/-10.42	-13.46/-14.77	-8.7/-19.82	-18.44/-13.24	-9.69/-9.77	-9.64/-10.78	-10.14/-5.21	-6.99/-7	-8.98/-5.84	-8.38/-11.23	-18.85/-7.16	-10.57/-8.68	-1.95/-18.8	-19.15/-13.7
Θ(127.5°)	-19.01/-12.7	-18.42/-15.3	-15.49/-8.41	-6.62/-10.5	-7.2/-4.48	-5.31/-3.67	-6.14/-4.86	-6.95/-7.89	-7.79/-12.29	-9.37/-14.1	-13.26/-14.67	-18.76/-18.8	-11.52/-18.48	-19.16/-16.4	-19.23/-13.63	-17.7/-18.9	-8.52/-6.68	-12.32/-10.75	-10.6/-12.01	-15.51/-12.16	-13.32/-6.64	-18.65/-10.46	-18.87/-17.56	-19/-13.3
Θ(135°)	-16.73/-18.09	-10.01/-12.59	-15.36/-10.6	-11.3/-14.12	-9.93/-6.39	-7.62/-10.88	-10.5/-6.47	-6.06/-7.19	-10.66/-13.27	-16.71/-11.48	-13.77/-18.27	-19.05/-18.04	-11.3/-18.53	-18.86/-19.62	-18.96/-7.97	-19.05/-18.65	-15.32/-9.68	-8.55/-12.39	-8.77/-8.05	-13.57/-14.44	-7.92/-11.48	-18.61/-17.22	-19.06/-18.47	-19.1/-18.29
Θ(142.5°)	-14.09/-16.63	-12.82/-12.83	-19.18/-18.5	-15.81/-13.46	-12.3/-12.22	-10.75/-11.73	-10.51/-13.9	-11.24/-9.74	-9.28/-11.02	-15.76/-13.92	-15.88/-13.36	-18.89/-16.67	-15.37/-18.03	-19.77/-18.7	-16.33/-15.26	-14.03/-18.33	-12.68/-19.61	-15.89/-18.01	-14.69/-9.58	-18.61/-18.16	-16.88/-18.3	-18.29/-18.22	-18.17/-18.82	-14.48/-16.74
Θ(150°)	-18.99/-18.51	-16.69/-14.07	-18.76/-19.15	-12.27/-11.94	-17.38/-16.93	-16.29/-16	-14.57/-15.01	-13.88/-13.61	-14.63/-16.72	-17.42/-19.39	-18.11/-17.93	-19.34/-18.43	-15.01/-18.12	-17.51/-18.97	-18.87/-18.21	-17.63/-14.38	-13.79/-19.06	-18.85/-15.48	-14.15/-17.87	-18.58/-14.4	-17.61/-18.26	-18.26/-17.26	-18.91/-18.31	
Θ(157.5°)	-18.51/-18.67	-18.29/-18.56	-17.83/-17.72	-14.96/-18.35	-18.8/-18.21	-18.17/-15.73	-15.27/-13.95	-14.78/-18.01	-11.51/-12.9	-15.37/-18.31	-15.1/-18.59	-18.23/-18.23	-15.28/-18.94	-18.61/-18.23	-18.87/-17.66	-14.96/-15.06	-17.9/-18.08	-18.93/-14.98	-13.93/-16.31	-18.55/-17.98	-17.36/-18.21	-18.63/-18.29	-18.1/-16.6	-16.22/-15.38
Θ(165°)	-18.02/-17.95	-18.19/-17.95	-19.17/-17.63	-16.61/-16.93	-18.19/-17.79	-17.91/-17.55	-18.52/-17.62	-18.07/-16.7	-17.23/-18.46	-17.73/-18.12	-17.93/-17.86	-18.36/-17.24	-17.95/-18.86	-18.89/-18.65	-18.73/-16.53	-17.75/-16.51	-18.95/-18.53	-18.77/-18.36	-19.05/-17.67	-19.14				



Radiated Composite Gain Data_Radio 3 6GHz-4TX

Appendix F

Θ(172.5°)	-10.41/-9.89	-10.02/-10.85	-11.39/-10.6	-9.78/-10.93	-13.05/-12.79	-12.57/-12.39	-11.77/-11.85	-11.69/-11.32	-11.52/-12.23	-14.61/-16.94	-18.56/-18.12	-17.19/-14.27	-12.46/-14.26	-13.38/-11.79	-10.44/-11.82	-13.2/-13.98	-15.86/-17.16	-18.23/-18.69	-18.36/-18.28	-17.9/-17.7	-17.85/-16.96	-15.96/-14.48	-12.58/-11.42	-10.61/-10.05
Θ(180°)	-7.4/-8.05	-9.71/-11.31	-11.46/-11.88	-13.59/-17.12	-18.71/-18.47	-17.43/-15.43	-14.63/-14.24	-13.55/-13.41	-13.41/-13.66	-14.92/-15.49	-15.83/-16.26	-15.73/-14.58	-18.07/-17.56	-17.02/-17.89	-17.11/-17.16	-17.83/-17.96	-18.49/-18.74	-18.68/-17.32	-18.51/-14.94	-12.36/-11.1	-10.01/-9.11	-8.5/-8.17	-8.31/-8.01	-7.47/-6.76
Freq(Hz)	6.175GPol.	ThetaAnt. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-12.12/-10.01	-8.4/-7.96	-7.06/-6.01	-5.56/-5.36	-4.84/-4.64	-4.8/-4.64	-5.09/-5.51	-6.29/-7.07	-7.87/-8.73	-10.49/-13.05	-15.24/-17.37	-19.07/-16.1	-12.32/-9.71	-8.14/-6.56	-5.86/-4.6	-4.94/-4.37	-4/-4.05	-4.2/-4.93	-5.24/-6.04	-6.55/-7.73	-9.18/-11.25	-13.5/-15.7	-16/-15.99	-15.2/-14.02
Θ(7.5°)	-8.74/-5.77	-4.37/-3.47	-2.89/-2.24	-1.64/-1.35	-1.02/-1.51	-2.28/-3.54	-4.49/-6.02	-7.74/-10.01	-12.38/-12.92	-14.18/-13.33	-14.31/-16.03	-18.22/-18.66	-16.32/-13.58	-11.32/-9.45	-8.31/-7.39	-6.83/-5.53	-4.73/-4.78	-4.83/-5.45	-4.64/-5.1	-5.62/-6.35	-7.59/-9.83	-12.44/-16.63	-18.86/-18.2	-15.3/-11.93
Θ(15°)	-7.53/-3.98	-2.94/-2.59	-1.78/-0.83	-1.26/-0.88	-0.54/-0.88	-1.62/-2.51	-3.12/-3.74	-4.42/-5.89	-7.57/-9.38	-11.34/-12.45	-12.87/-13.91	-16.78/-18.26	-17.11/-18.61	-13.4/-9.49	-7.74/-5.99	-5.59/-5.1	-5.01/-5.31	-6.34/-6.96	-6.2/-5.07	-4/-3.88	-4.45/-5.69	-8.23/-11.56	-13.84/-14.68	-15.36/-19.54
Θ(22.5°)	-6.3/-4.64	-3.38/-3.22	-2.73/-2.28	-2.23/-2.47	-3.83/-5.64	-6.97/-5.91	-4.81/-4.79	-5.98/-7.87	-9.27/-8.95	-8.58/-11.26	-18.04/-18.15	-15.4/-14.77	-13.68/-12.63	-9.33/-5.85	-4.11/-3.69	-3.93/-4.66	-6.63/-8.1	-7.08/-5.87	-5.32/-5.31	-4.93/-5.58	-7.84/-13.05	-17.79/-14.58	-13.75/-11.22	-9.62/-8.18
Θ(30°)	-9.78/-8.41	-5.06/-4.89	-6.98/-4.74	-6.01/-3.55	-2.81/-4.57	-6.43/-6.26	-5.71/-7.17	-8.96/-10.07	-9.92/-9.92	-10.35/-8.52	-7.4/-10.98	-12.16/-13.86	-16.73/-18.56	-9.35/-5.45	-5.9/-8.71	-10.77/-10.92	-10.25/-7.39	-6.18/-6.18	-4.97/-4.19	-4.98/-6.74	-8.83/-6.13	-17.63/-18.83	-14.14/-7.94	-7.49/-8.21
Θ(37.5°)	-5.26/-5.57	-6.06/-7.22	-10.65/-8.48	-6.33/-4.79	-4.63/-4.79	-4.92/-6.18	-8.95/-8.91	-3.92/-3.66	-7.1/-9.15	-11.16/-10.56	-16.21/-17.82	-16.14/-6.43	-5.57/-9.58	-11.17/-9.17	-10.82/-10.54	-8.99/-5.51	-5.27/-7.31	-7.41/-8.53	-12.25/-9.35	-10.91/-13.76	-6.21/-7.27	-9.66/-18.41	-16.78/-12.92	-9.34/-11.35
Θ(45°)	-6.44/-4.74	-8.41/-10.49	-8.77/-5.23	-6.25/-8.78	-9.48/-4.46	-6.35/-11.23	-4.51/-3.41	-7.39/-8.13	-13.49/-17.17	-18.94/-11.13	-5.81/-6.07	-8.92/-11.66	-13.83/-12.66	-11.71/-18.85	-13.43/-11.79	-8.02/-7.7	-10.01/-10.2	-10.71/-9.51	-9.18/-9.35	-9.45/-8.59	-8.3/-9.91	-12.49/-9.6	-9.4/-12.19	-8.03/-7.05
Θ(52.5°)	-13.07/-6.17	-7.56/-11.03	-7.4/-6.43	-5.64/-8.26	-12.11/-9.89	-11.43/-10.4	-6.53/-3.87	-5.74/-7.01	-15.93/-9.98	-3.23/-12.93	-5.12/-5.95	-11.27/-14	-17.76/-8.41	-6.13/-14.5	-15.84/-18.07	-11.78/-6.72	-6.48/-10.3	-15.05/-8.98	-11.29/-12.23	-12.24/-15.74	-14.79/-15.04	-9.19/-12.04	-4.56/-9.66	-13.02/-10.22
Θ(60°)	-14.5/-9.66	-8.13/-15.31	-10.58/-7.78	-9.43/-9.51	-11.23/-12.94	-8.43/-9.51	-6.57/-4.74	-11.16/-10.56	-15.52/-10.85	-8.32/-9.58	-6.38/-6.67	-13.02/-12.6	-16.19/-9.29	-5.71/-8.66	-6.54/-10.46	-18.68/-12.15	-7.82/-9.83	-6.82/-11.43	-11.92/-12.1	-10.16/-14.67	-12.24/-8.41	-9.14/-12.04	-11.74/-9.97	-18.82/-9.23
Θ(67.5°)	-18.91/-10.91	-12.21/-11.97	-9.92/-11.3	-13.91/-7.39	-6.97/-9.04	-3.92/-11.24	-8.58/-9.23	-12.14/-13.63	-18.49/-12.18	-14.64/-19.11	-14.68/-9.75	-11.26/-12.95	-18.81/-8.7	-8.76/-8.36	-6.48/-8.5	-18.24/-17.38	-15.98/-14.41	-14.49/-12.91	-7.89/-10.51	-7.13/-14.19	-11.97/-8.68	-9.75/-12.82	-18.46/-14.12	-13.97/-10.28
Θ(75°)	-19.23/-14.59	-19.24/-12.46	-12.95/-13.62	-12.73/-8.82	-9.07/-10.1	-6.97/-11.73	-10.36/-8.1	-15.64/-17.14	-12.66/-11.92	-16.46/-15.52	-18.78/-15.69	-13.16/-11.45	-18.74/-9.27	-11.26/-9.71	-7.12/-10.38	-18.29/-13.33	-16.82/-18.45	-10.41/-13.33	-7.71/-10.52	-8.07/-12.13	-12.51/-10.21	-10.76/-13.17	-18.96/-13.28	-17.39/-16.35
Θ(82.5°)	-17.17/-13.79	-18.95/-13.58	-14.25/-17.58	-12.83/-11.25	-11.26/-17.14	-15.11/-9.93	-11.23/-7.4	-11.95/-16.61	-12.04/-17.86	-17.78/-15.51	-16.51/-13.65	-14.83/-13.25	-17.89/-11.7	-9.94/-9.79	-10.99/-17.89	-17.38/-10.5	-12.55/-19.01	-8.31/-12.42	-6.85/-12.05	-11.31/-11.96	-12.65/-11.49	-14.62/-14.38	-17.73/-12.28	-18.52/-18.87
Θ(90°)	-15.69/-14.51	-18.72/-13.73	-18.15/-18.11	-17.77/-15.12	-16.71/-17.37	-18.15/-10.73	-13.43/-8.08	-10.49/-18.18	-13.72/-15.57	-19.69/-17.01	-19.02/-16.17	-14.58/-9.19	-12.34/-11.43	-10.38/-9.9	-10.92/-18.66	-18.28/-12.38	-9.73/-16	-11.06/-13.11	-14.01/-17.92	-17.62/-14.41	-13.34/-16.96	-16.07/-18.01	-17.31/-14.73	-18.59/-19.2
Θ(97.5°)	-15.48/-17.58	-17.69/-12.85	-15.62/-17.7	-18.21/-17.17	-18.98/-18.49	-19.03/-8.99	-17.93/-11.25	-7.51/-18.45	-17.56/-16.07	-13.32/-17.7	-14.16/-13.83	-10.41/-8.85	-9.56/-10.01	-9.76/-11.02	-11.73/-18.84	-15.07/-12.68	-16.87/-17.52	-11.88/-16.43	-17.81/-18.09	-15.88/-16.67	-18.45/-18.55	-18.13/-16.93	-15.13/-17.83	-17.31/-17.52
Θ(105°)	-17.2/-18.57	-19.05/-13.45	-18.67/-18.36	-18.67/-15.12	-17.76/-19.13	-17.93/-10.42	-17.39/-9.27	-7.29/-11.09	-14.88/-14.96	-16.18/-14.54	-11.75/-9.63	-9.75/-9.49	-9.19/-5.16	-8.47/-13.65	-14.85/-18.74	-9.36/-15.25	-12.52/-18.09	-14.51/-18.02	-15.05/-17.29	-18.82/-18.97	-19.04/-17.07	-19.35/-19.24	-15.62/-18.56	-17.4/-18.35
Θ(112.5°)	-15.03/-16.54	-13.52/-13.45	-17.86/-18.44	-17.69/-17.36	-13.52/-19.04	-17.77/-10.76	-15.75/-7.33	-5.59/-7.95	-14.46/-12.86	-13.84/-14.12	-10.36/-6.47	-8.03/-12.68	-6.79/-4.42	-8.84/-12.2	-19.23/-17.94	-7.51/-11.6	-9.6/-14.08	-13.77/-18.07	-10.2/-18.03	-18.39/-14.41	-13.32/-15.73	-15.12/-15.87	-19.29/-19.08	-17.88/-17.71
Θ(120°)	-13.51/-13.4	-14.1/-18.27	-17.07/-17.87	-16.99/-13.6	-11.06/-14.32	-14.42/-8.25	-11.38/-8.39	-6.57/-8.37	-14.68/-14.29	-12.53/-12.68	-12.32/-4.78	-5.71/-6.05	-6.92/-4.6	-12.15/-12.67	-12.45/-12.97	-9.75/-12.85	-10.36/-15.25	-16.16/-16.91	-10.64/-18.98	-19.01/-13.07	-12.41/-12.54	-11.11/-17.81	-17.4/-19.42	-18.66/-16.98
Θ(127.5°)	-19.01/-15.61	-17.66/-18.45	-15.9/-19.14	-17.76/-18.37	-12.23/-11.85	-11.62/-10.2	-8.93/-14.37	-8.98/-12.58	-18.69/-18.09	-14.69/-11.38	-10.76/-15.8	-18.66/-16.34	-9.01/-10.07	-11.86/-15.71	-18.87/-12.71	-17.35/-10.61	-18.56/-14.93	-18.23/-17.19	-18.28/-13.67	-14.63/-18.73	-14.89/-12.12	-13.03/-13.51	-10.37/-17.7	-19.11/-13.45
Θ(135°)	-16.2/-18.64	-17.49/-13.56	-16.86/-14.44	-16.78/-18.87	-17.11/-11.51	-16.08/-11.74	-10.1/-11.06	-19.03/-16.46	-13.24/-12.19	-17.03/-13.21	-15.65/-18.43	-19.28/-11.67	-8.74/-14.17	-17.49/-15.37	-13.09/-8.88	-9.84/-10.17	-17.5/-17.74	-18.89/-17.67	-18.46/-14.38	-15.86/-17.93	-15.73/-13.36	-11.49/-8.89	-11.34/-19.23	-17.48/-12.68
Θ(142.5°)	-12.65/-14.26	-17.76/-12.77	-12.29/-18.09	-18.39/-14.22	-18.53/-17.81	-18.05/-17.65	-18.84/-11.21	-10.33/-14.26	-19.1/-14.69	-16.71/-9.61	-7.51/-18.37	-19.04/-13.59	-17.71/-11.18	-18.64/-8	-7.22/-10.73	-12.15/-13.12	-13.9/-17.98	-17.05/-11.3	-17.6/-14.6	-19.19/-13.76	-18.07/-19.23	-18.72/-14.34	-11.66/-18.82	-18.39/-15.57
Θ(150°)	-13.59/-15.98	-17.5/-18.98	-18.3/-19.44	-16.78/-19.19	-18.18/-9.71	-12.34/-19.35	-11/-14.44	-13.6/-7.97	-9.69/-14.61	-18.42/-11	-18.48/-18.19	-10.79/-10.6	-9.24/-6.12	-16.3/-9.2	-8.71/-18.09	-17.56/-19.12	-18.66/-17.85	-13.81/-12.08	-17.62/-17.08	-19.15/-18.73	-11.71/-13.63	-13.76/-13.62	-17.65/-18.61	-19.19/-18.75
Θ(157.5°)	-16.53/-14.06	-13.72/-18.53	-17.27/-18.08	-17.32/-18.04	-19.11/-18.61	-18.87/-12.72	-7.64/-7.76	-11.52/-15.77	-18.93/-19.11	-14.98/-18.72	-15.12/-17.92	-13.35/-13.64	-13.71/-14.79	-19.07/-16.65	-17.24/-18.29	-18.86/-18.07	-18.23/-18.87	-13.74/-18.89	-14.96/-11.34	-10.98/-14.16	-11.34/-9.97	-12.83/-16.63	-16.5/-13.54	-18.16/-18.6
Θ(165°)	-15.19/-18.78	-18.46/-17.26	-14.89/-15.82	-18.12/-16.49	-14.05/-13.26	-15.23/-18.93	-17.94/-18.75	-16.56/-16.44	-12.15/-9.49	-9.41/-11.03	-12.26/-14.82	-17.11/-13.17	-14.51/-16.54	-10.28/-9.33	-12/-14.52	-15.15/-18.16	-17.61/-17.82	-17.22/-18.25	-15.84/-13.16	-13.25/-15.28	-18.52/-18.27	-15.84/-13.79	-11.94/-12.72	-18.8/-16.51
Θ(172.5°)	-10.45/-11.28	-15.22/-18.78	-18.77/-19.79	-14.41/-14.15	-15.86/-17.47	-17.68/-17.77	-17.01/-15.74	-17.63/-18.52	-17.44/-19.32	-16.03/-17.4	-14.63/-12.32	-10.87/-11.74	-13.33/-17.42	-17.98/-19.3	-18.6/-14.89	-14.18/-15.16	-16.92/-19.02	-17.97/-14.31	-11.17/-9.46	-10.04/-11	-10.97/-12.13	-13.61/-12.96	-13.8/-13.77	-11.21/-10.12
Θ(180°)	-19.07/-15.64	-12.69/-11.31	-10.96/-10.76	-10.37/-10.39	-11.66/-15.39	-18.09/-18.6	-17.12/-18.01	-18.91/-18.1	-11.86/-15.66	-16.75/-16.84	-17.59/-15.49	-13.86/-12.73	-16.33/-14.46	-14.18/-13.94	-12.15/-15.15	-9.39/-9.11	-8.51/-8.34	-8.52/-9.44	-10.28/-10.41	-10.77/-11.76	-13.52/-15.96	-15.6/-16.56	-17.81/-17.95	-
Freq(Hz)	6.475GPol.	PhiAnt. 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-2.28/-2.09	-2.62/-3.25	-3.76/-4.75	-6.05/-7.41	-6.07/-11.23	-14.49/-17.7	-17.93/-9.68	-13.48/-11.03	-8.76/-7.24	-6.25/-5.92	-5.17/-4.61	-4.14/-3.96	-4.51/-5.2	-5.82/-5.82	-6.75/-7.95	-9.85/-12.09	-16.62/-16.36	-15.64/-12.84	-10.6/-9.2	-7.6/-6.28	-5.3/-4.49	-3.74/-3.02	-2.69/-2.64	-2.44/-2.28
Θ(7.5°)	-7.33/-7.55	-8.6/-10.09	-11.37/-14.2	-15.09/-13.41	-12.48/-11.08	-10.27/-7.98	-7.11/-6.68	-8.89/-7.74	-7.49/-7.07	-5.72/-4.82	-4.46/-3.97	-2.49/-1.54	-1.72/-1.7	-2.21/-3.04	-3.17/-3.77	-5.29/-7.37	-10.53/-12.1	-15.67/-17.14	-18.33/-19.34	-15.25/-12.47	-11.25/-10.67	-10.31/-9.43	-8.73/-8.19	-7.38/-6.87
Θ(15°)	-11.																							



Radiated Composite Gain Data_Radio 3 6GHz-4TX

Appendix F

Θ(15°)	-6.85/-5.42	-4.81/-4.37	-3.47/-3.34	-2.94/-2.85	-3.61/-4.73	-5.55/-6.55	-7.41/-7.29	-7.77/-8.1	-8.98/-8.88	-8.43/-8.24	-8.46/-9.63	-12.75/-18.79	-17.99/-16.59	-15.04/-13.97	-16.2/-13.74	-9.39/-6.15	-2.97/-2.01	-2.2/-3	-5.14/-7.4	-11.09/-14.75	-18.72/-18.83	-17.61/-15.19	-14.67/-12.93	-10.84/-9.14
Θ(22.5°)	-8.55/-5.41	-4.4/-4.73	-5.67/-4.72	-10.1/-9.19	-7.1/-5.89	-5.88/-6.65	-6.77/-7.31	-6.51/-7.16	-11.5/-13.23	-12.25/-10.12	-8.28/-10.3	-16.48/-17.86	-18.92/-17.7	-13.92/-6.92	-5.53/-4.45	-9.16/-5.38	-4.84/-4.83	-4.87/-4.83	-5.77/-6.99	-9.4/-12.26	-17.35/-19.01	-19.24/-18.55	-17.36/-12.15	-10.96/-10.2
Θ(30°)	-7.89/-4.55	-2.99/-4.35	-6.34/-8.19	-12.76/-17.93	-10.99/-7.6	-6.52/-6.81	-10.78/-9.81	-6.69/-5.77	-5.59/-5.29	-6.85/-12.88	-12.62/-12.55	-10.57/-17.46	-18.2/-18.5	-15.57/-10.31	-7.53/-10.31	-7.78/-4.09	-4.54/-5.54	-5.45/-5.1	-5.38/-7.03	-10.57/-13.94	-17.33/-18.42	-16.83/-13.56	-18.1/-13.23	-10.52/-6.67
Θ(37.5°)	-7.86/-6.37	-6.27/-9.42	-16.63/-9.82	-8.39/-9.83	-8.46/-7.78	-10.55/-9.75	-10.39/-15.03	-13.5/-14.15	-15.22/-10.14	-8.95/-9	-8.12/-14.05	-17.8/-17.91	-18.24/-9.86	-8.09/-8.75	-5.68/-7.17	-10.15/-9.12	-8.04/-5.71	-6.11/-7.46	-7.26/-8.42	-9.75/-9.44	-17.03/-17.9	-17.54/-12.01	-12.81/-11.71	-12.58/-12.1
Θ(45°)	-8.47/-8.01	-13.36/-10.42	-11.57/-6.71	-5.04/-4.85	-7.73/-13.36	-12.32/-6.28	-12.54/-8	-6.28/-18.47	-18.93/-17.66	-9.26/-6.57	-6.99/-16.65	-14.57/-17.65	-18.48/-18.18	-11.14/-10.95	-7.31/-7.87	-7.54/-9.38	-10.6/-8.37	-8.5/-11.03	-9.63/-9.31	-10.13/-8.45	-11.52/-18.48	-18.03/-11.87	-9.72/-9.46	-10.51/-13.21
Θ(52.5°)	-12.79/-11.05	-15.69/-10.62	-9.93/-8.86	-8.11/-10.04	-18.74/-16.56	-11.52/-15.79	-9.01/-6.93	-9.43/-8.96	-11.62/-19.13	-18.1/-7.99	-6.03/-11.24	-15.67/-16.52	-19.25/-12.93	-13.79/-12.09	-12.8/-12.19	-7.23/-8.89	-10.71/-11.93	-9.77/-10.6	-9.23/-8.36	-12.25/-11.75	-10.34/-14.32	-13.1/-17.48	-15.92/-13.21	-10.75/-8.89
Θ(60°)	-14.92/-12.5	-18.6/-14.5	-11.99/-9.86	-17.8/-18.91	-16.89/-16.57	-17.39/-10.47	-6.64/-11.41	-7.46/-8.38	-9.92/-13.51	-13.32/-13.61	-7.72/-11.71	-18.79/-13.39	-18.78/-12.22	-18.61/-10.96	-9.57/-17.58	-14.8/-15.06	-13.23/-17.8	-18.28/-12.53	-10.48/-6.73	-8.86/-10.07	-9.86/-13.38	-14.51/-17.1	-12.85/-13.28	-9.85/-13.6
Θ(67.5°)	-17.28/-17.26	-18.29/-17.94	-17.85/-11.98	-18.24/-18.82	-13.62/-12.48	-18.17/-9.21	-9.92/-16.31	-14.48/-18.12	-11.4/-11.61	-18.44/-16.14	-10.66/-13.81	-17.44/-13.37	-16.17/-10.53	-17.65/-8.96	-11.21/-14.78	-18.83/-17.77	-18.75/-11.08	-18.16/-11.22	-7.76/-4.9	-5.73/-10.56	-12.9/-14.6	-16.02/-18.69	-17.63/-17.39	-13.08/-18.82
Θ(75°)	-19.31/-18.29	-17.46/-13.67	-18.45/-17.86	-17.99/-16.99	-14.17/-15.24	-19.03/-10.27	-11.62/-17.74	-19.19/-16.58	-10.58/-13.25	-15.11/-14.95	-14.37/-19.01	-18.21/-10.55	-17.54/-10.39	-15.95/-9.94	-11.12/-16.76	-18.59/-19.1	-18.17/-7.07	-12.38/-12	-10.64/-8.13	-6.46/-12.53	-15.56/-16.5	-18.11/-18.88	-18.4/-19.36	-16.23/-13.63
Θ(82.5°)	-16.32/-18.64	-13.35/-16.55	-19.54/-18.74	-18.6/-18.68	-18/-13.36	-12.5/-10.64	-11.96/-16.76	-13.69/-18.7	-11.96/-14.8	-19.93/-17.3	-13.44/-18	-13.61/-12.28	-10.15/-5.69	-12.83/-9.17	-15.01/-18.38	-16.17/-14.9	-18.22/-6.26	-13.36/-11.82	-15.34/-10.99	-11.03/-14.32	-17.46/-17.28	-18.43/-18.81	-16.23/-17.99	-18.71/-16.27
Θ(90°)	-11.92/-18.69	-12.17/-18.71	-18.01/-18.58	-18.65/-18.94	-17.84/-15.01	-12.18/-13.31	-12.26/-13.51	-13.39/-17.64	-14.7/-15.26	-19.1/-15.37	-13.82/-11.47	-9.78/-15.22	-6.4/-4.56	-8.88/-9.34	-14.41/-17.76	-19.1/-7.64	-15.81/-9.1	-17.42/-14.17	-17.74/-18.1	-15.03/-12.72	-18.05/-18.6	-17.09/-18.07	-15.13/-18.75	-18.19/-15.62
Θ(97.5°)	-10.76/-18.9	-13.98/-18.05	-13.76/-17.37	-18.61/-19.06	-17.71/-17.84	-15.22/-18.99	-15.66/-16.99	-15.55/-18.57	-14.73/-18.14	-19.03/-19.55	-11.34/-19.67	-7.44/-9.47	-6.56/-5.45	-7.88/-13.1	-14.62/-17.9	-17.69/-19.75	-18.27/-12.52	-12.04/-17.21	-18.98/-18.47	-19.18/-18.61	-17.61/-18.03	-18.93/-18.96	-17.2/-16.51	
Θ(105°)	-12.31/-18.6	-18.75/-19.41	-11.66/-17.02	-16.88/-17.71	-12.96/-19.12	-18.2/-17.86	-14.32/-18.3	-12.37/-18.16	-16.86/-13.22	-18.28/-17.43	-9.09/-9.84	-7.82/-8.71	-7.02/-5.39	-7.43/-10.64	-14.22/-17.47	-18.71/-14.7	-18.3/-13.95	-18.04/-17.05	-17.73/-18.41	-17.87/-18.83	-15.85/-18.87	-18.37/-18.87	-17.95/-17.38	-19.19/-17.63
Θ(112.5°)	-10.51/-13.61	-18.48/-15.25	-12.06/-17.78	-18.83/-18.12	-9.31/-14.85	-18.29/-17.02	-13.12/-18.7	-8.93/-18.56	-13.94/-10.3	-16.89/-18.36	-8.95/-9.84	-5.59/-6.46	-7.86/-5.32	-10.25/-13.63	-18.34/-18.58	-17.09/-19.28	-17.31/-12.2	-18.78/-15.78	-16.71/-18.05	-17.8/-18.57	-16.35/-18.94	-18.15/-16.3	-14.74/-18.22	-19.69/-15.71
Θ(120°)	-10.2/-18.25	-18.48/-15.93	-15.79/-12.31	-14.08/-15.06	-9.17/-10.62	-11.33/-11.77	-10.94/-11.51	-8.24/-14.72	-18.28/-14.05	-18.16/-19.36	-9.33/-13.89	-10.18/-9.62	-6.6/-8.51	-16.41/-16.76	-18.32/-13.95	-18.26/-18.89	-18.55/-17.83	-14.82/-18.05	-13.96/-18.77	-17.82/-18.07	-18.16/-18.27	-19.07/-18.19	-14.67/-12.47	
Θ(127.5°)	-15.78/-13.17	-18.42/-19.09	-12.48/-13.28	-14.47/-15.19	-10.02/-11.47	-9.18/-8.77	-12.16/-6.96	-14.79/-10.13	-18.44/-18.47	-11.95/-18.17	-18.08/-13.92	-15.3/-17.51	-14.07/-19.12	-18.96/-18.86	-14.53/-17.88	-12.05/-11.8	-17.79/-13.87	-17.75/-17.93	-14.48/-17.95	-12.83/-17.53	-19.52/-12.11	-14.54/-9.74	-18.8/-17.65	-18.15/-14.21
Θ(135°)	-15.32/-14.41	-18.64/-15.25	-11.45/-17.97	-18.44/-12.5	-11.27/-18.21	-10.74/-14.31	-18.11/-8.27	-11.95/-16.97	-15.71/-16.4	-13.71/-10.8	-12.98/-18.8	-18.02/-14.84	-17.98/-15.59	-19.05/-18.6	-16.38/-14.96	-11.72/-14.21	-11.56/-16.84	-17.19/-19.09	-17.93/-19.09	-15.34/-18.26	-19.13/-13.12	-10.69/-10.62	-13.17/-13.86	-12.37/-12.71
Θ(142.5°)	-15.1/-19.48	-17.43/-14.83	-15.35/-16.9	-11.87/-18.97	-8.79/-13.52	-12.58/-17.56	-16.28/-18.16	-14.64/-16.02	-13.23/-10.8	-12.04/-13.75	-7.2/-12.59	-14.85/-17.73	-16.26/-11.34	-15.15/-18.92	-14.31/-18.48	-17.94/-18.02	-19.01/-13.04	-16.94/-16.28	-17.97/-18.61	-19.91/-19.09	-18.93/-18.96	-17.93/-17.39	-19.37/-9.54	
Θ(150°)	-15.82/-18.11	-18.06/-17.36	-15.3/-16.59	-15.72/-18.46	-16.81/-16.64	-9.46/-10.71	-16.24/-9.64	-18.59/-12.46	-13.31/-18.7	-16.97/-12.66	-17.33/-10.2	-13.89/-18.43	-6/-11.04	-12.32/-15.1	-14.22/-12.82	-15.68/-15.52	-14.57/-18.47	-18.39/-16.99	-12.72/-9.76	-12.91/-12.66	-18.92/-13.83	-17.38/-18.98	-18.16/-15.24	-12.22/-10.14
Θ(157.5°)	-18.36/-15.93	-19.07/-18.73	-19.05/-15.71	-13.64/-17.34	-19.2/-17.32	-13.94/-17.23	-18.55/-11.46	-10.33/-12.57	-19.26/-15.08	-12.4/-17.48	-16.43/-11.71	-18.69/-9.56	-11.18/-17.83	-18.45/-18.72	-11.31/-10.53	-17.09/-16.6	-18.28/-18.07	-17.21/-17.28	-17.75/-15.65	-18.46/-19.14	-18.1/-12.73	-13.32/-16.72	-16.02/-18.75	
Θ(165°)	-18.46/-18.92	-14.51/-15.39	-12.52/-12.07	-13.95/-13.97	-9.49/-7.97	-7.84/-9.58	-13.72/-19.2	-18.95/-18.56	-18.05/-15.01	-14.21/-18.12	-18.61/-19.02	-18.22/-18.2	-19.15/-16.11	-16.6/-14.34	-12.54/-11.18	-11.64/-11.16	-11.32/-14.99	-17.24/-18.17	-15/-12.38	-12.12/-11.53	-11.15/-11.49	-12.02/-11.56	-8.89/-6.67	-12.06/-19.85
Θ(172.5°)	-19.06/-15.8	-11.69/-9.99	-10.98/-15.08	-14.46/-13.93	-14.26/-16.46	-18.33/-19.2	-18.71/-17.76	-15.65/-16.9	-19.19/-18.06	-16.56/-16.05	-14.8/-14.1	-16.03/-17.14	-19.07/-18.68	-16.33/-13.99	-14.85/-18.34	-18.31/-18.92	-16.8/-15.74	-13.17/-11.42	-10.87/-11.78	-9.91/-10.12	-12.05/-13.79	-15.59/-15.58	-15.11/-16.13	-19.06/-17.59
Θ(180°)	-18.61/-19.16	-17.71/-14.31	-12.46/-10.97	-11.27/-11.65	-11.67/-14.73	-14.4/-11.33	-11.46/-12.72	-15.96/-18.49	-19.16/-18.85	-16.7/-13.88	-13.41/-14.16	-15.4/-18.18	-18.98/-18.77	-19.04/-17.55	-17.35/-16.64	-15.5/-14.04	-11.98/-11.03	-11.28/-10.33	-8.34/-9.62	-9.48/-10.33	-11.36/-11.54	-12.48/-13.75	-14.4/-13.85	-13.73/-14.77
Freq(Hz)	6.995GPol.	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°)	-6.12/-6.56	-7.17/-7.07	-8.11/-10.17	-13.3/-15.83	-18.45/-17.71	-15.59/-12.95	-9.25/-11.8	-7.77/-6.68	-6.34/-6.13	-6.25/-6.76	-6.25/-6.43	-7.22/-8.4	-9.22/-9.51	-10.78/-12.82	-16.59/-19.79	-18.22/-18.09	-18.3/-18.57	-15.63/-13.66	-12.04/-11.74	-10.98/-10.1	-9.26/-7.3	-6.5/-6.62	-6.15/-5.66	-5.64/-6.04
Θ(7.5°)	-14.52/-17.02	-17.95/-18.03	-18.58/-19.14	-17.25/-15.97	-14.33/-13.24	-12.41/-11.85	-10.64/-9.56	-8.01/-6.87	-5.4/-5.44	-4.04/-3.95	-3.81/-3.73	-3.62/-3.53	-4.23/-5.03	-6.69/-9.16	-12.85/-17.34	-18.78/-17.98	-14.24/-11.61	-11.26/-10.32	-9.6/-10.21	-10.34/-10.36	-9.83/-9.26	-8.81/-9.95	-5.66/-13.63	
Θ(15°)	-17.94/-15.13	-11.8/-12.2	-12.77/-9.15	-6.43/-5.9	-6.55/-7.61	-5.9/-4.29	-3.58/-3.19	-3.64/-4.64	-5.38/-5.46	-4.38/-2.83	-1.64/-1.13	-1.14/-1.65	-2.65/-3.94	-4.92/-5.87	-4.9/-5.21	-6.92/-7.59	-8.42/-9.58	-10.09/-9.36	-9.71/-8.04	-6.85/-7.07	-7.52/-8.55	-10.63/-12.49	-14.33/-14.34	-16.13/-18.3
Θ(22.5°)	-12.46/-11.55	-9.54/-9.12	-12.9/-11	-3.97/-2.23	-2.98/-4.1	-3.02/-2.69	-3.52/-3.39	-2.47/-1.81	-1.54/-2.37	-4.7/-5.36	-2.83/-0.94	-0.77/-1.35	-0.53/-0.09	-0.53/-3.29	-3.44/-2.35	-3.59/-5.92	-7.75/-10.45	-13.46/-11.72	-10.1/-9.3	-8.93/-4.89	-8.15/-7.84	-6.76/-5.58	-5.6/-2.55	-7.11/-9.45
Θ(30°)	-8.57/-6.6	-6.12/-7.51	-7.29/-6.54	-4.88/-4.85	-5.17/-2.75	-1.5/-1.74	-2.28/-2.38	-1.98/-3.17	-4.02/-1.55	0.450/-0.2	-1.57/-0.77	0.25/-0.08	-0.020/-4.1	1.12/-0.29	-5.06/-3.65	-1.42/-1.45	-2.17/-3.37	-4.26/-3.72	-2.98/-3.73	-6.3/-6.54	-6.19/-5.33	-4.89/-3.56	-3.13/-3.74	-4.94/-7.54
Θ(37.5°)	-3.69/-3.84	-6.53/-6.67	-4.13/-4.73	-4.42/-1.92	-0.11/-1.23	0.61/-1.01	-0.32/-1.06	-0.94/-1.39	-1.96/-1.97	-1.58/-1.12	-0.38/-0.66	-0.67/-0.82	1.68/-1.26	0.06/-1.28	-1.33/-0.24	-1.33/-2.11	-1.98/-2.45	-3.36/-3.05	-3.43/-6.31	-8.3/-7.48	-4.51/-2.4	-3.03/-3.11	-3/-2.8	-3.99/-4.82
Θ(45°)	-1.25/-1.93	-2.12/-1.52	-1.61/-5.21	-1.08/-0.46	-1.12/-1.48	-4.52/-0.88	-1.9/-2.34	1.45/-0.34	-2.16/-2.58	-4.11/-1.18	1.26/-0.33	0.720/-0.53	-0.92/-0.17	-0.420/-0.45	2.12/-0.46	-0.39/-0.39	-3.37/-4.03	-3.25/-2.42	-4.2/-1.62	-4.08/-6.44	-6.42/-2.9	-1.91/-1.77	-1.15/-0.45	-1.25/-2.89
Θ(52.5°)	-0.85/-1.06	-0.85/-2.21	-1.9/-3.35	-0.16/-2.8	-0.42/-2.82	-4.19/-2.73	-1.59/-2.72	-2.86/-6.7	-0.99/-1.88	0.58/-1.7	-1.91/-3.36	-4.12/-2.05	-2.84/-2.86	0.650/-1.3	0.52/-1.27	-1.71/-3.87	-3.81/-3.54	-2.59/-1.39	-3.77/-3.52	-2.58/-3.45	-5.6/-2.24	0.130/-39	0.02/-0.58	-2.85/-3.23
Θ(60°)	0.12/-0.27	0.210/-0.7																						



Radiated Composite Gain Data_Radio 3 6GHz-4TX

Appendix F

Θ(67.5°)	-15.61/-17.5	-17.19/-13.09	-7.82/-12.09	-13.88/-10.09	-8.91/-6.3	-5.45/-6.39	-7.83/-8.46	-7.69/-4.07	-5.9/-12.34	-13.21/-12.52	-15.68/-18.93	-17.16/-14.42	-9.24/-9.5	-9.82/-11.24	-14.86/-12.15	-16.01/-15.72	-18.98/-19.06	-19.02/-14.99	-17.57/-17.56	-18.05/-18.15	-18.67/-18.08	-17.86/-14.93	-9.03/-8.82	-8.41/-9.53
Θ(75°)	-16.57/-18.34	-19.09/-12.27	-9.99/-15.59	-15.89/-11.87	-12.57/-11.87	-10.18/-10.2	-8.21/-8.58	-8.53/-4.26	-7.89/-15.67	-14.67/-17.77	-18.74/-17.66	-17.64/-11.24	-10.63/-11.66	-9.59/-15.99	-17.5/-13.26	-18.09/-15.88	-18.19/-17.33	-17.87/-18.11	-18.82/-17.16	-17.68/-17.58	-17.88/-18.55	-18.69/-13.53	-8.14/-6.86	-8.18/-11.65
Θ(82.5°)	-17.59/-18.43	-17.43/-14.27	-14.48/-17.3	-17.39/-13.14	-15.67/-16.94	-18.52/-15.69	-10.63/-8.2	-7.73/-5.87	-9.28/-15.11	-13.98/-19.44	-17.61/-18.95	-15.71/-12.42	-9.25/-11.55	-11.57/-17.47	-18.08/-16.21	-15.81/-11.88	-18.61/-19.17	-18.72/-16.66	-13.76/-17.75	-18.25/-18.04	-18.87/-19.18	-18.87/-12.5	-7.47/-5.26	-7.64/-12.11
Θ(90°)	-19.07/-15.23	-14.17/-14.55	-17/-16.99	-18.19/-18.44	-17.86/-18.55	-18.26/-16.38	-11.97/-13.56	-10.37/-6.81	-12.07/-17.74	-13.24/-18.03	-16.78/-15.63	-18.55/-14.02	-10.29/-13.51	-18.03/-18.17	-18.86/-18.95	-18.91/-14.75	-18.64/-18.94	-15.37/-13.61	-13.2/-18.7	-18.55/-18.72	-14.88/-15.92	-19.61/-10.49	-7.3/-6.67	-8.17/-13.84
Θ(97.5°)	-18.42/-16.85	-14.31/-14.83	-15.02/-18.09	-19.35/-17.55	-18.25/-18.59	-19.19/-18.31	-12.96/-14.3	-15.58/-8.5	-14.98/-18.02	-12.46/-17.77	-15.08/-14.27	-18.71/-17.88	-9.91/-13.84	-18.69/-18.74	-17.5/-19.38	-17.69/-18.38	-18.66/-18.58	-16.57/-12.55	-14.81/-18.82	-18.15/-18.11	-18.25/-15.41	-17.45/-10.65	-7.78/-8.6	-10.42/-15.15
Θ(105°)	-19.09/-17.01	-14.56/-15.11	-12.85/-18.01	-17.63/-18.51	-18.85/-18.22	-18.51/-15.47	-12.02/-15.09	-19.64/-11.35	-14.94/-18.28	-12.5/-17.17	-12.98/-11.73	-18.44/-15.53	-12.77/-13.76	-15.32/-17.38	-17.78/-18.09	-13.37/-14.16	-16.65/-18.45	-18.66/-18.78	-17.1/-17.6	-19.27/-18.53	-13.95/-17.06	-15.61/-10.81	-9.74/-11.21	-11.78/-18.52
Θ(112.5°)	-17.48/-14.72	-18.67/-14.77	-11.75/-17.9	-16.18/-17.3	-17.8/-19.05	-18.52/-14.56	-13.36/-18.01	-18.79/-11.15	-17.85/-19.11	-14.21/-17.07	-17.56/-16.5	-15.8/-18.34	-17.94/-17.35	-18.32/-18.63	-18.56/-18.42	-17.57/-15.42	-18.97/-18.29	-18.23/-15.88	-14.86/-17.23	-17.85/-15.06	-13.48/-18.62	-15.88/-9.41	-11.1/-16.89	-15.22/-18.37
Θ(120°)	-18.18/-16.3	-17.99/-16.72	-12.17/-18.14	-17.95/-18.08	-18.52/-18.34	-18.75/-17.5	-17.9/-18.16	-18.6/-11.8	-18.43/-16.48	-15.8/-17.39	-18.55/-18.79	-17.77/-18.69	-18.71/-18.36	-13.52/-15.43	-18.52/-18.34	-17.15/-17.92	-11.51/-18.16	-13.61/-14.2	-16.11/-19.25	-16.75/-11.55	-12.66/-16.24	-19.37/-9.54	-11.57/-15.07	-18.37/-17.2
Θ(127.5°)	-17.91/-17.34	-17.35/-17.97	-16.19/-15.1	-18.67/-18.76	-18.16/-18.94	-17.46/-19.32	-17.5/-15.64	-13.73/-17.51	-13.07/-17.53	-14.6/-18.47	-18.4/-12.5	-13.16/-10.52	-17.98/-11.99	-12.68/-19.9	-14.73/-15.6	-16.01/-11.63	-11.08/-18.42	-15.16/-15.81	-12.53/-18.69	-19.54/-14.27	-13.05/-18.2	-7.54/-9.25	-16.07/-14.34	-18.14/-17.23
Θ(135°)	-18.25/-18.84	-18.22/-14.42	-14.33/-12.65	-16.18/-17.17	-18.05/-17.33	-19.14/-17.34	-17.62/-11.8	-12.35/-17.33	-9.37/-19.13	-17.53/-14.55	-18.43/-18.96	-17.86/-10.34	-18.05/-17.99	-11.31/-10.98	-13.81/-13.01	-15.56/-6.15	-13.1/-17.56	-13.4/-17.78	-12.15/-16.7	-18.57/-9.79	-12.73/-8.9	-7.69/-18.28	-17.64/-15.41	-17.89/-15.83
Θ(142.5°)	-16.1/-18.84	-17.16/-16.16	-17.66/-15.4	-14.71/-13.62	-19.09/-16.66	-17.42/-11.91	-13.59/-18.55	-9.84/-10.65	-17.25/-14.15	-12.87/-17.76	-17.31/-13.71	-12.57/-15.67	-10.31/-17.7	-11.26/-18.32	-10.71/-18.17	-11.65/-11.08	-18.79/-18.34	-15.45/-18.03	-17.27/-14.03	-14.2/-10.71	-17.11/-10.55	-17.76/-17.99	-18.92/-18.45	-15.18/-15.23
Θ(150°)	-17.57/-17.2	-17.55/-18.52	-19/-17.76	-10.18/-12.87	-17.11/-11.01	-14.56/-17.6	-14.12/-18.1	-18.06/-16.38	-17.58/-9.39	-18.78/-18.04	-13.88/-12.81	-9.93/-18.44	-7.48/-10.56	-18.15/-15.52	-13.94/-13.13	-18.18/-18.55	-18.83/-17.35	-12.68/-18.36	-17.08/-13.61	-12.63/-17.53	-11.81/-14.81	-16.61/-14.6	-14.73/-18.06	
Θ(157.5°)	-17.8/-18.35	-18.15/-18.38	-18.41/-18.44	-18.44/-18.27	-15.44/-9.91	-13.51/-18.58	-11.2/-13.2	-18.94/-18.61	-18.91/-18.13	-13.17/-8.82	-10.95/-18.24	-18.3/-7.69	-7.6/-12.34	-8.48/-13.06	-18.81/-16.53	-13.68/-10.06	-10.48/-14.07	-17.77/-16.04	-15.1/-13.58	-11.8/-12.63	-10.62/-14.3	-17.97/-17.91	-14.84/-11.13	-16.36/-17.53
Θ(165°)	-10.82/-13.04	-17.39/-17.7	-17.18/-16.74	-15.61/-13.38	-13.25/-17.44	-18.35/-11.53	-13.53/-13.7	-11.84/-13.62	-18.34/-18.96	-12.28/-18.03	-11.91/-14.38	-18.82/-14.96	-12.52/-18.55	-16.46/-12.82	-12.6/-12.15	-10.34/-18.82	-18.77/-13.34	-10.51/-10.15	-11.88/-17.93	-15.94/-13.59	-15.19/-17.73	-14.32/-12.72	-14.04/-16.97	-18.33/-12.04
Θ(172.5°)	-14.02/-13.33	-13.52/-15	-17.51/-16.89	-15.14/-13.47	-14.82/-19.01	-18.55/-18.3	-12.91/-11.2	-11.19/-15.67	-19.44/-18.28	-16.87/-19.5	-16.79/-16.98	-17.31/-14.93	-11.05/-15.5	-18.15/-18.81	-18.6/-18.9	-18.81/-18.64	-17.51/-16.37	-15.86/-15.96	-18.61/-18.43	-19.17/-17.94	-19.19/-18.04	-17.11/-16.26	-14.13/-12.97	
Θ(180°)	-16.99/-17.07	-18.96/-18.73	-18.92/-17.61	-16.26/-17.66	-18.24/-17	-14.51/-13.15	-16.9/-17.73	-17.5/-17.72	-14.2/-15.23	-17.63/-17.37	-15.22/-13.37	-11.13/-10.27	-10.65/-12.31	-14.67/-13.34	-12.17/-12.68	-15.13/-19.03	-17.51/-18.96	-17.48/-18.65	-19.02/-16.42	-15.27/-18.23	-17.91/-15.96	-15.07/-13.95	-13.45/-13.8	-15.51/-18.18
Freq(Hz)	6.475GPol.	Phi/Ant.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-0.47/-0.19	0.30/0.7	-0.04/-0.43	-1.19/-2.09	-2.91/-4.23	-6.18/-8.37	-10.17/-16.27	-18.98/-16.64	-11.08/-8.22	-6.26/-4.62	-3.1/-2.48	-1.59/-0.63	-0.25/-0.21	-0.10/-14	-0.31/-0.78	-0.99/-1.56	-2.73/-4.21	-5.58/-7.48	-11.31/-16.29	-17.55/-13.22	-9.85/-7.83	-5.73/-3.97	-2.82/-1.83	-1.33/-0.86
Θ(7.5°)	-1/-0.72	-0.57/-0.8	-1.11/-1.38	-1.78/-2.68	-3.76/-5.4	-6.22/-9.53	-11.81/-13.72	-17.84/-16.58	-11.54/-6.86	-4.86/-3.12	-1.77/-1.15	-0.350/-24	0.70/-94	1.060/-47	-0.48/-0.97	-1.04/-1.42	-2.86/-3.85	-4.92/-7.05	-10.57/-14.76	-18.46/-17.73	-12.27/-10.27	-8.79/-7.02	-4.87/-3.45	-2.43/-1.61
Θ(15°)	-4.17/-3.97	-3.9/-4.22	-4.81/-5.71	-5.81/-5.21	-5.04/-6.29	-5.35/-3.64	-1.81/-3.72	-7.05/-6.8	-7.09/-5.26	-1.360/-0.5	-0.39/-0.25	-0.31/-0.2	-0.504/-6.8	-0.83/-1.4	-0.410/-3.5	0.340/-63	-0.40/-1.15	-2.34/-5.1	-9.1/-14.24	-18.34/-15.05	-10.42/-8.05	-5.94/-4.51		
Θ(22.5°)	-8.72/-11.65	-14.19/-10.37	-7.71/-5.61	-5.02/-4.84	-3.09/-1.84	-2.44/-2.37	-1.39/-2.62	-3.69/-3.32	-3.48/-3.31	-2.24/-2.03	-1.44/-0.91	-0.430/-0.1	0.05/-0.46	-0.56/-0.14	0.070/-0.2	-0.39/-0.13	0.55/-1.32	1.571/-55	1.250/-49	-0.94/-3.17	-5.72/-7.33	-9.11/-10.84	-10.79/-8.68	-8.07/-6.53
Θ(30°)	-6.78/-4.39	-1.8/-1.19	-1.88/-2.61	-3.32/-2.8	-1.47/-1.61	-0.46/-0.48	-0.74/-1.75	-4.33/-6.89	-7.11/-5.65	-2.38/-2.48	-1.67/-0.77	0.040/-43	-0.21/-0.33	-0.18/-0.62	-0.89/-1.27	-1.78/-0.82	-0.87/-1.4	-2.01/-1.05	-0.52/-1.75	-2.62/-2.73	-4.45/-6.95	-2.82/-4.95	-8.2/-8.49	-9.87/-10.53
Θ(37.5°)	-2.060/-18	1.621/-48	0.2/-2.14	-2.89/-2.54	-1.9/-0.54	0.370/-3	0.980/-83	-1.03/-2.15	-1.46/-0.34	0.170/-0.3	0.43/-0.21	-0.09/-0.15	-0.94/-1.04	-2.39/-3.61	-4.4/-3.41	0.920/-8	-0.98/-1.94	-2.87/-2.61	-1.99/-3.55	-5.62/-5.11	-4.38/-3.58	-4.76/-6.22	-5.01/-2.73	-2.13/-2.32
Θ(45°)	-0.30/-26	0.441/-02	0.41/-2.47	-3.36/-1.94	-1.020/-11	0.950/-86	1.061/-84	1.220/-48	-0.11/-0.15	-0.44/-1.55	-0.88/-1.59	-1.57/-2.04	-2.17/-3.37	-3.04/-1.83	-2.99/-1.72	0.480/-84	0.581/-17	1.961/-85	1.13/-0.06	-2.48/-4.51	-1.95/-3.03	-5.04/-6.04	-6.17/-4.86	-4.83/-1.46
Θ(52.5°)	0.70/-41	-0.120/-21	0.28/-1.39	-2.8/-4.32	-2.9/-1.33	-0.340/-62	-0.030/-09	0.38/-1.5	-1.85/-1.08	-1.17/-0.29	-0.71/-2.94	-3/-1.61	-1.57/-2.64	-3.12/-0.41	-0.030/-36	1.110/-74	0.832/-39	2.932/-53	2.091/-08	-1.61/-1.83	-1.13/-2.95	-3.46/-3.24	-4.01/-4.72	-2.85/-0.2
Θ(60°)	2.360/-99	-0.32/-0.58	-1.27/-2.98	-6.12/-9.19	-8.12/-4.58	-2.51/-1.67	-0.42/-0.8	-0.58/-2.04	-3.95/-2.99	-1.25/-0.7	-1.68/-4.02	-4.45/-3.21	-2.23/-4.3	-6.89/-3.24	-1.24/-1.68	-0.92/-1.63	-5.53/-2.91	-0.24/-0.05	-1.04/-2.32	-2.55/-5.71	-3.16/-3.03	-0.91/-1.68	-2.03/-0.81	-0.22/-0.9
Θ(67.5°)	2.561/-89	1.63/-0.26	-2.56/-6.87	-8.99/-9.03	-5.29/-5.13	-3.81/-1.23	0.592/-43	-0.46/-0.12	-3.05/-3.15	-3.61/-4.87	-7.23/-6.13	-5.15/-4.54	-5.68/-7.66	-4.09/-4.32	-6.88/-3.43	-3.27/-4.27	-6.78/-5.68	-6.82/-5.46	-1.22/-0.97	0.02/-4.9	-1.58/-3.09	-1.37/-1.56	-1.93/-0.13	2.453/-21
Θ(75°)	2.271/-72	1.32/-0.13	-2.88/-4.75	-4.14/-4.37	-5.9/-5.76	-0.91/-2.43	-1.03/-2.99	2.550/-84	-0.64/-3.35	-2.78/-3.83	-4.96/-4.95	-4.36/-3.59	-2.67/-3.32	-1.02/-1.93	-2.86/-3.27	-4.55/-4.73	-1.83/-2.14	-3.45/-2.33	-3.55/-0.09	0.35/-0.9	-4.05/-2.78	-0.74/-1.21	-1.99/-0.45	2.622/-98
Θ(82.5°)	1.431/-91	1.650/-4	-1.89/-2.72	-4.25/-3	-5.21/-4.11	-2.86/-1.92	-1.372/-57	2.731/-24	-0.59/-2.47	-2.04/-1.59	-1.08/-2.6	-4.77/-5.32	0.030/-26	1.071/-45	-1.26/-1.67	-1.25/-0.31	1.591/-94	2.24/-0.28	-1.252/-0.1	1.241/-55	-3.87/-3.33	0.06/-1.82	-2.68/-0.86	0.882/-11
Θ(90°)	0.731/-08	0.34/-0.39	-1.68/-2.1	-3.02/-1.63	-5.93/-4.88	-5.35/-0.5	0.232/-89	0.891/-72	-0.31/-3.4	-1.390/-16	-0.25/-3.78	-3.12/-3.12	-0.34/-1.47	-1.1/-0.37	-0.68/-1.31	-0.35/-1.26	2.520/-16	2.60/-11	-3.071/-17	1.260/-47	-0.95/-4.1	-0.38/-3.08	-4.79/-0.08	-0.420/-37
Θ(97.5°)	-0.29/-0.45	-1.03/-1.77	-2.07/-1.79	-4.35/-1.74	-6.31/-3.56	-7.41/-2.09	0.792/-7	0.160/-38	-0.61/-4.93	-1.61/-0.23	-1.4/-3.29	-4.42/-4.56	-1.91/-3.74	-2.18/-2.9	-1.5/-3	-2.981/-12	1.610/-22	-1.07/-1.26	-7.11/-1.45	-0.91/-1.43	-2.91/-3.55	-1/-2.04	-5.12/-1.26	-0.99/-0.61
Θ(105°)	-1.28/-2.35	-2.27/-3.75	-3.47/-2.93	-3.16/-2.62	-6.85/-2.98	-6.83/-3.31	-0.41/-2.55	-0.47/-0.22	0.29/-6.47	-1.85/-0.33	-3.27/-3.34	-4.44/-4.17	-4.38/-9.96	-2.04/-6.28	-1.33/-2.02	-3.04/-0.34	0.2/-2.75	-4.28/-2.2	-11.88/-3.19	-1.25/-1.99	-2.91/-5.03	-1.64/-3.76	-5.93/-1.45	-0.41/-0.8
Θ(112.5°)	-3.58/-3.31	-1.97/-3.68	-5.31/-6.58	-2.92/-4.77	-1.6/-6.43	-5.45/-2.61	-0.611/-98	-2.32/-1.57	-2.75/-3.72	-2.84/-1.04	-2.62/-4.42	-9.65/-7.47	-3.22/-6.13	-3.93/-2.56	-0.22/-4.08	-3.31/-1.28	-0.16/-3.25	-5.19/-3.35	-10.67/-2.7	-1.66/-0.16</				



Radiated Composite Gain Data_Radio 3 6GHz-4TX

Appendix F

Θ(120°)	-19.01/-17.27	-18.17/-17.42	-13.19/-19.2	-17.66/-15.45	-15.68/-14.95	-18.9/-17.54	-17.94/-17.11	-14.43/-19.89	-19.2/-14.42	-15.28/-19.33	-14.16/-15.51	-12.61/-15.2	-18.83/-15.35	-17.94/-8.58	-18.13/-16.38	-13.84/-17.34	-18.97/-18.46	-14.13/-19	-13.44/-16.11	-19.02/-18.48	-12.53/-12.57	-17.85/-11.31	-12.96/-18.11	-17.2/-18.39
Θ(127.5°)	-18.43/-18.63	-17.86/-17.9	-12.05/-18.76	-17.07/-17.68	-15.16/-16.11	-16.52/-18.29	-19.02/-18.59	-13.79/-17.34	-19.2/-15.87	-9.72/-14.92	-13.94/-10.39	-15.28/-14.18	-14.83/-17.22	-14.74/-15.71	-14.27/-18.84	-7.19/-14.68	-11.29/-17.5	-15.09/-13.75	-13.07/-16.24	-13.56/-14.11	-16.94/-7.93	-17.77/-12.34	-16.88/-17.57	-18.97/-18.72
Θ(135°)	-15.4/-17.86	-11.44/-18.92	-15.59/-16.69	-18.77/-19.34	-17.89/-17.94	-11.23/-15.79	-17.69/-16.54	-14.54/-17.96	-17.97/-17.91	-12.11/-15.25	-15.52/-8.72	-17.62/-11.52	-15.73/-9.66	-19.06/-9.73	-11.97/-11.5	-18.5/-6.79	-12.54/-13.38	-16.24/-13.8	-13.55/-18.28	-10.73/-13.3	-9.59/-7.84	-17.73/-15.04	-18.08/-17.28	
Θ(142.5°)	-18.17/-15.96	-17.78/-13.59	-15.95/-11.98	-18.89/-18.45	-19.26/-16.21	-12.48/-17.3	-18.2/-18.34	-15.06/-15.25	-11.56/-11.34	-18.69/-13.07	-18.96/-10.62	-17.16/-9.6	-18.11/-17.07	-9.65/-17.9	-9.84/-16.33	-12.16/-10.24	-14.21/-17.39	-15.49/-17.87	-18.22/-14.97	-18.56/-12.31	-11.86/-18.85	-9.62/-18.01	-18.98/-15.66	-18.33/-18.76
Θ(150°)	-15.12/-18.22	-12.21/-18.75	-18.15/-14.93	-13.5/-11.09	-19.2/-10.14	-11.77/-18.92	-13.06/-18.13	-16.38/-18.72	-17.04/-14.81	-8.74/-11.59	-17.71/-12.02	-17.47/-10.59	-10.36/-16.82	-10.03/-9.62	-16.82/-17.88	-13.31/-12.59	-13.9/-18.34	-18.04/-11.78	-13.54/-16.96	-18.59/-19.53	-18.62/-19.16	-17.06/-17.52	-17.93/-18.51	-17.75/-17.83
Θ(157.5°)	-15.81/-17.57	-17.68/-18.83	-18.94/-18.95	-9.32/-8.86	-17.95/-10	-11.26/-14.82	-12.1/-12.1	-15.14/-18.61	-18.68/-18.92	-16.13/-11.02	-7.75/-12.89	-16.71/-8.41	-6.48/-10.55	-10.44/-13.46	-18.71/-17.32	-17.29/-12.49	-12.53/-18.93	-13.34/-12.68	-14.45/-11.44	-14.25/-12.89	-10.57/-13.22	-13.76/-19.06	-10.28/-10.99	-14.46/-12.54
Θ(165°)	-14.11/-15.58	-18.11/-17.45	-13.53/-14.32	-16.68/-16.74	-14.5/-12.57	-18.65/-17.71	-12.52/-11.51	-11.64/-15.1	-14.27/-15.75	-11.88/-7.91	-8.14/-12.03	-15.01/-13.94	-14.63/-18.34	-18.49/-12.08	-10.78/-13.08	-13.44/-15.65	-12.19/-10.33	-10.1/-10.53	-16.78/-11.53	-9.3/-11.67	-17.64/-19.13	-17.46/-14.98	-13.46/-14.44	-12.3/-11.78
Θ(172.5°)	-10.72/-12.81	-13.05/-17.97	-17.7/-14.15	-12.67/-13.53	-14.23/-17.97	-18.62/-17.59	-12.34/-11.37	-11.45/-11.14	-16.16/-18.87	-14.47/-12.56	-13.41/-15.54	-14.93/-12.28	-11.97/-16.56	-17.77/-16.94	-17.41/-17.25	-18.19/-18.35	-18.61/-16.1	-17.18/-14.56	-13.72/-12.01	-12.76/-15.49	-15.77/-15.59	-15.84/-18.48	-18.87/-18.01	-14.41/-11.81
Θ(180°)	-16.7/-16.75	-15.88/-18.65	-18.28/-18.71	-17.41/-18.11	-16.7/-15.13	-11.81/-12.36	-15.64/-16.39	-17.95/-18.65	-15.31/-15.28	-16.62/-18.54	-17.46/-15.75	-13.73/-13.83	-15.92/-18.46	-16.8/-14	-14.9/-18.12	-18.94/-19.22	-18.98/-17.77	-17.51/-15.14	-13.44/-13.16	-13.67/-11.53	-10.45/-9.93	-9.52/-8.82	-9.27/-10.82	-11.03/-11.21
Freq(Hz)	6.995GPdL	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°)	-4.1/-3.49	-3.31/-3.31	-3.01/-2.96	-3.48/-4.09	-3.98/-4.79	-5.81/-6.18	-7.57/-9.85	-11.07/-12.36	-15.01/-15.45	-13.72/-10.85	-9.2/-7.32	-5.63/-4.44	-3.68/-3.05	-2.78/-2.41	-4.07/-4.9	-6.49/-8.41	-9.68/-12.96	-19.19/-18.35	-18.64/-13.2	-10.3/-8.06	-7.41/-6.44	-5.24/-4.55		
Θ(7.5°)	-3.1/-2.66	-2.28/-1.93	-1.51/-1.92	-2.74/-3.13	-3.7/-4.36	-6.35/-7.69	-9.78/-13.49	-16.38/-18.47	-18.03/-14.32	-12.3/-9.33	-7.24/-6.25	-4.9/-4.29	-4.16/-3.7	-3.32/-2.9	-2.62/-2.22	-2.18/-2.26	-2.52/-2.99	-4.22/-4.9	-5.59/-7.19	-8.56/-10.12	-13.02/-15.89	-15.41/-12.95	-9.03/-7.31	-5.24/-3.63
Θ(15°)	-1.32/-1.56	-2.26/-1.49	-7.22/-9.07	-10.42/-11.59	-12.51/-11.61	-10.5/-13.68	-18.63/-18.08	-11.67/-11.75	-14.69/-11.92	-9.64/-6.95	-4.88/-3.28	-2.11/-1.63	-2.61/-3.13	-4.01/-4.17	-4/-3.63	-2.94/-1.55	-3.02/0.25	-0.07/-0.32	-0.85/-2.13	-3.29/-4.66	-6.35/-9.43	-12.34/-17.53	-12.19/-6.65	-3.96/-1.67
Θ(22.5°)	-5.89/-5.84	-6.46/-7.16	-9.79/-11.02	-7.93/-4.17	-1.99/-1.63	-2.14/-2.85	-4.03/-5.32	-4.5/-4.03	-4.04/-3.71	-2.64/-1.88	-1.31/-1.51	-1.58/-1.6	-1.33/-0.32	0.030/0.14	0.84/1.03	1.07/1.7	2.54/2.69	2.03/1.41	0.47/-1.71	-3.07/-2.56	-2.62/-3.58	-4.83/-8.89	-11.92/-8.01	-7.55/-6.14
Θ(30°)	-4.87/-2.88	-0.41/3.1	1.450/3.3	-1.76/-2.58	-1.86/-1.99	-1.97/-2.79	-3.01/-0.45	0.270/3.9	0.960/7.2	-0.33/-1.02	-2.84/-4.78	-3.41/-1.96	-0.95/-0.71	-0.121/5.6	2.04/1.05	-0.63/-1.58	-0.44/-1.13	1.470/5.6	-0.06/-0.52	-0.75/-0.9	-2.22/-3.29	-3.71/-3.49	-4.27/-4.92	-5.91/-6.45
Θ(37.5°)	-3.26/-1.28	-0.35/-1.03	0.99/1.69	1.850/4.4	0.31/5.5	1.12/-1.27	-0.09/-0.25	-3.01/-4.62	-2.170/1.3	0.38/-0.19	-1.11/-0.57	-0.27/-0.21	-0.240/0.3	0.490/5.4	1.760/9.8	-2.51/-4.34	-2.87/-4.41	-5.1/-2.42	-1.44/-2.81	-0.78/-0.54	-2.31/-2.41	-3.89/-4.28	-2/-1.97	-2.67/-2.68
Θ(45°)	0.16/1.6	3.18/1.7	-0.75/0.6	1.630/0.5	0.153/0.8	3.290/6.8	1.240/4.2	-2.8/-3.36	-0.01/1.3	0.91/-0.79	-2.07/-0.61	-1.86/-5.39	-5.24/-2.88	-4.84/-8.49	-7.35/-3.3	-1.34/-0.04	1.261/2.8	-1.67/0.8	1.54/-0.7	0.25/-2.18	-4.91/-3.59	-2.47/-1.17	-0.59/-0.83	
Θ(52.5°)	-1.1/0.8	2.94/2.5	-0.55/-1.61	0.01/-0.55	-1.82/0.49	0.21/-0.95	-0.1/-0.07	-0.49/-0.91	0.67/1.15	-2.14/-2.79	-2.21/-2.61	-5.28/-6.1	-4.09/-2.73	-2.1/-3.07	-3.21/-0.86	0/1.1	2.79/1.77	-0.36/-0.87	0.70/3.4	-1.93/-0.03	0.67/-0.77	-5.21/-6.99	-6.04/-4.17	-2.82/-0.16
Θ(60°)	-1.09/-0.43	1.79/1.64	-1.45/-3.34	-2.32/-3.32	-7.42/-4.57	-1.77/-0.94	-1.14/-1.04	-0.91/-2.31	-1.64/-2.39	-2.46/-0.48	-0.73/-1.83	-4.28/-2.93	-1.87/-2.71	-2.54/-3.26	-1.35/-0.35	0.730/5.5	1.040/0.6	-1.5/-5.47	-0.88/-3.38	-0.68/-0.55	-5.57/-5.64	-4.45/-5.1	-4.17/-1.11	
Θ(67.5°)	1.05/-0.42	-0.09/0.16	-1.59/-4.77	-4.91/6.07	-8.98/-7.81	-4.69/-0.89	-0.46/-0.71	-2.72/-5.77	-6.46/-3.02	-7.08/-3.73	-5.91/-7.75	-5.92/-3.24	-2.54/-4.33	-7.3/-5.83	-4.71/-3.6	-2.85/-3.68	-6.55/-8.08	-9.19/-8.08	-4.06/-6.56	-5.41/-8.73	-5.02/-3.23	-2.71/-1.92	-2.120/9.4	
Θ(75°)	2.430/5.5	-0.03/-0.41	-1.45/-4.9	-3.29/-4.79	-7.75/-6.49	-2.050/0.72	1.35/1.89	-0.57/-2.95	-4.31/-1.81	-6.24/-7.45	-11.63/-13.54	-4.81/-2.28	-3.54/-4.47	-3.98/-7.01	-5.64/-5.32	-6.93/-6.7	-8.87/-8.86	-6.05/-5.3	-5.86/-4.12	-2.6/-3.6	-2.79/-2.05	-1/-3.17	-1.18/-0.69	1.28/2.92
Θ(82.5°)	3.32/1.03	0.6/-1.29	-1.89/-4.09	-3.39/-3.84	-5.84/-3.98	-0.12/-0.94	1.24/1.12	2.15/-1.89	-1.66/-0.27	-3.02/-5.46	-6.13/-6.01	-1.83/-1.41	-2.61/-2.14	-1.28/-2.74	-3.26/-6.24	-5.480/0.8	1.37/-0.13	-1.56/-1.06	-4.53/-0.58	1.17/-0.14	-2.71/-1.68	0.74/-2.28	-0.430/0.78	2.42/3.3
Θ(90°)	3.260/2.72	0.81/-0.24	-1.21/-3.26	-4.44/-3.2	-4.61/-2.82	-3.86/-1.75	1.64/-0.54	0.82/-0.61	0.78/-0.41	-1.4/-2.27	-4.4/-3.71	-0.460/-29	-0.59/-0.95	-0.27/-1.27	-2.35/-3.43	-1.61/1.41	2.41/1.58	0.130/2.3	-4.53/0.05	1.260/3.6	-2.38/-1.71	0.34/-1.32	-1.40/8.5	1.542/3.1
Θ(97.5°)	2.830/4.4	-0.12/-0.66	-0.69/-3.37	-5.53/-3.89	-4.56/-3.69	-4.78/-2.19	1.630/0.6	0.34/-1.87	1.28/-1.17	-1.28/-1.57	-3.81/-3.49	-0.550/2.5	-0.27/-0.36	-0.44/-0.94	-1.05/-2.82	-2.670/7.5	0.26/-0.76	-0.62/-0.83	-6.32/-1.08	-0.01/-0.83	-2.69/-0.14	-0.07/-2.13	-2.04/-0.01	0.24/1.24
Θ(105°)	0.5/-0.65	-2.05/-1.54	-1.61/-3.93	-2.68/-3.35	-3.09/-9.2	-5.69/-1.47	-0.51/-3.8	-0.82/-4.25	-0.47/-1.57	-1.58/-1.48	-1.99/-3.46	-2.39/-1.49	-1.1/-3.3	-1.03/-3.19	-1.32/-3.54	-2.710/5.5	-0.76/-4.28	-3.6/-1.28	-14.08/-2.71	-0.54/-0.33	-3.47/-0.53	-1.06/-1.91	-3.53/-0.4	-0.660/-22
Θ(112.5°)	-0.92/-1.62	-3.18/-3.09	-4.69/-5.76	-2.74/-3.4	-1.34/-6.63	-6.75/-0.95	-0.42/-0.49	-5.04/-2.24	-4.62/-5.88	-1.45/-1.13	-1.77/-4.33	-3.39/-2.45	-3.43/-4.08	-0.86/-3.26	0.08/-5.36	-2.33/-0.66	-0.34/-6.84	-2.88/-1.22	-14.18/-2.21	-0.7/-0.8	-5.63/-10.3	-0.99/-5.05	-4.69/-1.81	-2.22/-0.67
Θ(120°)	-2.08/-3.31	-3.94/-3.61	-6.16/-7.47	-5.73/-2.8	-4.51/-4.8	-6.78/-9.7	-3.29/-2.18	-0.54/-7.46	-2.24/-9.11	-5.17/-1.51	-0.72/-4.66	-5.21/-3.06	-4.17/-5.76	-1.84/-8.59	-0.31/-2.53	-3.37/-3.43	-1.82/-8.37	-7.38/-2.41	-15.49/-2.38	-2.1/-2.94	-6.67/-4.08	-3.33/-5.02	-4.84/-1.8	-2/-1.56
Θ(127.5°)	-3.67/-6.24	-5.74/-4.4	-7.03/-8.27	-6.14/-3.23	-3.17/-6.03	-12.31/-5.24	-4.91/-4.48	-7.8/-4.08	-7.52/-8.72	-6.42/-1.36	-1.33/-2.77	-1.192/-8.06	-2.33/-2.94	-8.21/-0.94	-0.1/-5.8	-0.17/-5.54	-1.51/-11.32	-7.26/-3.61	-10.24/-2.39	-2.76/-5.93	-3.81/-2.64	-3.5/-4.66	-4.14/-2.88	-2.61/-2.71
Θ(135°)	-5.84/-4.72	-3.45/-5.35	-6.21/-9.77	-8.83/-7.71	-3.95/-5.17	-5.99/-4.99	-6.35/-5.92	-6.42/-3.98	-5.06/-9.44	-6.4/-5.45	-3.21/-1.71	-8.63/-15	-5.07/-7.4	-16.19/-4.23	-2.02/-4.22	-3.65/-1.21	-8.05/-12.08	-4.42/-5.48	-5.8/-5.44	-2.13/-10.13	-6.74/-3.98	-4.11/-8.11	-5.37/-4.42	-3.15/-3.35
Θ(142.5°)	-6.4/-7.69	-7.63/-3.29	-4.22/-11.14	-14.85/-6.42	-5.57/-6.3	-5.38/-8.49	-12.49/-8.35	-11.62/-5.33	-4.24/-7.98	-12.9/-8.72	-2.44/-3.5	-5.37/-8.17	-8.94/-10.2	-8.08/-1.77	-12.96/-2.93	-7.28/-7.02	-11.46/-10.83	-7.24/-11.06	-11.83/-11.13	-8.78/-12.51	-14.41/-6.95	-7.41/-7.8	-4.17/-5.19	-5.25/-5.82
Θ(150°)	-6.9/-9.03	-8.1/-6.02	-5.99/-5.5	-1.08/-9.41	-9.83/-5.5	-5.6/-7.39	-10.73/-13.45	-13.39/-6.26	-5.75/-4.88	-11.9/-13.23	-4.79/-5.17	-6.34/-13.86	-14.71/-12.66	-10/-3.46	-1.92/-4.2	-9.4/-18.4	-15.33/-9.79	-9.11/-10.52	-8.24/-8.85	-10.49/-15.5	-18.03/-5.84	-11.87/-8.48	-9.06/-7.38	-5.88/-6.7
Θ(157.5°)	-9.71/-7.13	-6.5/-6	-7.98/-11.84	-15.79/-18.04	-15.11/-10.2	-8.01/-6.04	-6.89/-12.63	-12.19/-6.66	-5.24/-4.06	-9.36/-17.54	-15.16/-7.62	-7.32/-9.22	-13.88/-17.94	-10.51/-6.09	-7.32/-17.65	-16.8/-12.77	-12.63/-16.29	-18.82/-18.94	-17.93/-19.23	-17.81/-18.64	-18.26/-14.42	-11.18/-9.41	-9.79/-12.47	-8.73/-10.28
Θ(165°)	-8.81/-9.3	-7.94/-8.44	-6.34/-5.06	-6.98/-13.53	-18.44/-16.19	-9.25/-8.94	-9.04/-11.51	-14.78/-10.52	-11.3/-11.02	-10.06/-13.75	-18.51/-18.63	-18.38/-13.29	-11.59/-12.81	-14.32/-15.46	-17.96/-15.47	-11.6/-9.97	-10.18/-10.43	-8.4/-7.67	-8.71/-9.8	-16.4/-18.06	-14.45/-10.4	-8.74/-8.74	-10.92/-15.78	-12.32/-9.17
Θ(172.5°)	-13.12/-13.74	-14.1/-14.48	-15.06/-1																					



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)	1.74	3.9	5.88	4.78	3.92	3.47	5.58	5.92	6.85
Ant. 2 Max Gain (dBi)	2.91	4.85	6.64	6.99	6.33	5.35	4.32	5.01	6.5
Ant. 1 Polarization/Θ(°)/Φ(°)	Theta/37.5/202.5	Theta/52.5/240	Theta/75/120	Theta/60/120	Theta/82.5/60	Theta/22.5/202.5	Phi/0/90	Phi/7.5/262.5	Phi/0/225
Ant. 2 Polarization/Θ(°)/Φ(°)	Theta/45/150	Theta/52.5/165	Theta/52.5/127.5	Theta/52.5/120	Theta/52.5/112.5	Theta/60/120	Phi/15/187.5	Phi/15/157.5	Phi/15/142.5
Max Gain (dBi)	2.91	4.85	6.64	6.99	6.33	5.35	5.58	5.92	6.85
DG [1SS] (dBi)	5.23	6.17	7.91	8.96	8.08	5.92	7.24	7.24	8.57
DG [2SS] (dBi)	2.91	4.85	6.64	6.99	6.33	5.35	5.58	5.92	6.85



Radiated Composite Gain Data_Scan Radio 4 2.4GHz, 5GHz, 6GHz

Appendix G

DG 1SS Result

Freq(Hz)	2.45GPol.	PhiL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-5.8/-6.05	-6.16/-6.25	-6.02/-5.96	-5.99/-5.93	-5.82/-5.66	-5.58/-5.64	-5.77/-5.74	-5.77/-5.81	-5.79/-5.68	-5.71/-5.99	-6.35/-6.6	-6.53/-6.38	-6.22/-9.4	-5.53/-2.57	-5.29/-5.48	-5.64/-6.24	-5.52/-5.45	-5.44/-5.47	-5.4/-5.23	-5.08/-4.98	-4.9/-4.74	-4.59/-4.45	-4.41/-4.53	-4.85/-5.29
Θ(7.5°)	-5.86/-5.65	-5.36/-5.05	-4.85/-4.89	-5.14/-5.44	-5.69/-5.86	-6.67/-6.28	-6.47/-6.24	-5.79/-5.2	-4.53/-3.9	-3.51/-3.49	-3.59/-3.9	-4.25/-4.75	-5.44/-6.26	-6.94/-6.98	-7.06/-7.37	-6.78/-6.21	-5.76/-5.42	-5.17/-5.02	-5.08/-5.23	-5.81/-6.36	-7.05/-7.06	-6.39/-6.59	-5.95/-5.89	
Θ(15°)	-5.51/-5.24	-4.93/-4.64	-4.52/-4.65	-5.06/-5.66	-6.22/-6.62	-6.97/-7.34	-7.49/-7.04	-6.09/-5.03	-3.92/-2.98	-2.2/-1.75	-1.66/-1.8	-2.12/-2.66	-3.54/-4.74	-6.14/-7.32	-7.79/-7.09	-6.06/-5.37	-5.07/-5.01	-5/-5.17	-5.7/-6.58	-7.89/-9.36	-10.87/-10.34	-9.96/-9.35	-8.29/-7.08	-6.29/-5.81
Θ(22.5°)	-5.25/-5.19	-5.1/-4.96	-4.99/-5.15	-5.59/-6.1	-7.1/-7.87	-8.57/-9.07	-9.02/-8.16	-6.85/-5.43	-4.01/-2.79	-1.75/-1.02	-0.66/-0.4	-0.98/-1.71	-2.81/-4.27	-5.71/-6.56	-6.32/-5.25	-4.13/-3.65	-3.73/-4.26	-5.03/-6.09	-7.45/-9.19	-11.51/-13.83	-12.64/-11.18	-8.97/-7.1	-7/-6.46	-5.91/-5.48
Θ(30°)	-4.99/-5.34	-5.77/-5.96	-5.87/-5.64	-5.67/-6.2	-7.31/-9.08	-11.09/-12.2	-11.69/-10.41	-8.76/-7.12	-5.51/-4.04	-2.7/-1.6	-0.87/-0.55	-0.71/-1.29	-2.29/-3.65	-5.15/-6.05	-5.73/-4.4	-3.07/-2.4	-2.54/-3.39	-4.77/-6.51	-8.53/-10.84	-13.42/-14.43	-12.64/-9.32	-7.31/-6.2	-5.84/-5.88	-5.64/-5.08
Θ(37.5°)	-5.16/-6.04	-7.19/-7.46	-6.89/-6.05	-5.27/-5.16	-6.11/-8.45	-12.17/-13.93	-14.42/-12.97	-11.04/-9.19	-7.54/-5.96	-4.31/-2.83	-1.83/-1.36	-1.37/-1.74	-2.43/-3.61	-5.04/-6.05	-5.69/-4.41	-3.03/-2.32	-2.39/-3.33	-4.89/-6.67	-8.11/-9.39	-10.71/-10.73	-9.26/-7.35	-6.39/-6.11	-6.23/-6.46	-5.95/-5.1
Θ(45°)	-5.87/-7.26	-9.26/-9.19	-8.02/-7.04	-5.62/-4.85	-5.54/-7.79	-11.57/-13.34	-14.86/-14.3	-12.87/-11.11	-9.71/-8.75	-6.76/-4.74	-3.41/-2.92	-2.88/-2.78	-2.83/-3.65	-5.51/-4.73	-7.54/-6.48	-5.02/-3.84	-3.39/-4	-5.25/-6.63	-7.58/-8.22	-8.56/-8.49	-7.47/-6.44	-6.12/-6.52	-7.27/-7.58	-6.74/-5.7
Θ(52.5°)	-7.55/-9.64	-10.43/-9.74	-8.3/-7.31	-5.89/-5.03	-5.8/-6.1	-11.29/-13.93	-14.58/-14.53	-14.09/-11.7	-10.32/-9.41	-8.27/-5.7	-4.4/-5.55	-5.13/-4.53	-3.98/-4.9	-7.53/-10.09	-9.51/-9.28	-7.89/-6.89	-5.01/-5.43	-6.23/-7.15	-8.01/-8.58	-8.38/-7.99	-7.69/-7.71	-8.15/-9.05	-9.99/-9.56	-7.93/-7.18
Θ(60°)	-10.45/-11.85	-12.9/-9.7	-8.49/-7.24	-5.59/-4.96	-6.11/-8.83	-11.83/-13.84	-14.53/-14.26	-14.54/-12.75	-10.75/-9.59	-8.59/-6.19	-4.99/-5.21	-1.69/-4.1	-5.77/-6.31	-9.61/-12.18	-11.27/-12.22	-11.49/-8.41	-7.03/-6.96	-7.08/-7.61	-8.86/-9.72	-9.18/-8.55	-8.45/-9.6	-11.54/-12.72	-13.18/-12.06	-10.08/-6.68
Θ(67.5°)	-13.13/-12.52	-11.91/-10.34	-10.07/-8.46	-5.97/-5.1	-6.58/-9.95	-13.31/-14.85	-15.13/-14.02	-13.21/-11.98	-10.24/-8.8	-7.69/-5.55	-4.58/-5.7	-8.21/-7.85	-6.44/-7.42	-11.34/-12.09	-11.43/-12.09	-11.31/-9.11	-8.65/-8.58	-8.48/-8.91	-10.75/-11.29	-9.99/-8.67	-8.12/-9.6	-11.34/-11.26	-11.6/-13.13	-13.04/-12.58
Θ(75°)	-12.98/-11.94	-12.16/-10.4	-10.59/-9.98	-6.89/-5.51	-7.21/-10.96	-14.07/-16.05	-15.43/-13.28	-12.08/-11.6	-10.52/-9.36	-8.37/-8.94	-5.75/-6.86	-9.84/-9.38	-7.52/-8.73	-13.53/-12.02	-8.52/-8.67	-10.77/-10.82	-9.93/-9.93	-9.66/-10.1	-11.08/-11.9	-11.44/-10.27	-8.51/-9.14	-11.59/-11.85	-11.14/-12.1	-13.35/-14.05
Θ(82.5°)	-14.99/-14.32	-13.02/-11.42	-11.1/-10.29	-6.96/-5.43	-7.14/-11.82	-14.31/-14.62	-13.49/-12.75	-11.75/-11.94	-11.54/-10.59	-9.67/-8.97	-8.48/-10.18	-14.19/-11.11	-9.75/-12.69	-15.1/-10.91	-8.42/-8.81	-11.57/-11.2	-11.09/-10.32	-9.82/-10.58	-11.14/-12.09	-11.89/-10.94	-10.16/-67	-15.28/-14.92	-13.04/-14.56	-15.22/-15.43
Θ(90°)	-15.66/-15.33	-13.02/-11.82	-12.88/-12.02	-8.61/-6.02	-7.24/-11.26	-13.46/-13.24	-12.14/-12.46	-12.54/-12.92	-12.55/-11.3	-9.57/-9.08	-9.29/-11.45	-14.32/-11.09	-9.66/-12.09	-14.21/-10.51	-8.88/-9.51	-11.79/-11.99	-13.55/-13.09	-12.35/-12.1	-11.58/-10.61	-10.09/-11.26	-10.99/-12.85	-14.69/-12.33	-11.8/-14.28	-15.17/-15.68
Θ(97.5°)	-15.57/-15.17	-14.35/-13.6	-13.39/-13.38	-9.86/-7.06	-7.78/-11.9	-14.29/-14.76	-14.04/-14.14	-13.96/-15.09	-14.67/-12.11	-9.62/-8.79	-8.94/-11.29	-14.79/-12.02	-11.71/-15.56	-15.39/-10.44	-9.15/-9.19	-10.12/-10.35	-10.53/-10.4	-11.1/-10.77	-10.56/-10.31	-11.45/-11.98	-11.38/-12.07	-15.81/-12.37	-11.32/-15.07	-15.57/-15.73
Θ(105°)	-15.17/-15.71	-13.02/-11.42	-11.1/-10.29	-6.96/-5.43	-7.14/-11.82	-14.31/-14.62	-13.49/-12.75	-11.75/-11.94	-11.54/-10.59	-9.67/-8.97	-8.48/-10.18	-14.19/-11.11	-9.75/-12.69	-15.1/-10.91	-8.42/-8.81	-11.57/-11.2	-11.09/-10.32	-9.82/-10.58	-11.14/-12.09	-11.89/-10.94	-10.16/-67	-15.28/-14.92	-13.04/-14.56	-15.22/-15.43
Θ(112.5°)	-13.16/-14.43	-14.84/-13.9	-11.6/-11.47	-8.79/-7.95	-7.89/-12.42	-15.4/-15.39	-15.1/-14.27	-11.49/-10.83	-10.77/-9.59	-9.58/-10.33	-10.72/-13.5	-15.79/-14.51	-15.01/-15.9	-13.95/-10.9	-9.84/-9.57	-8.6/-9.84	-10.91/-12.71	-14.7/-14.17	-12.34/-10.44	-11.5/-13.13	-10.4/-11.84	-13.48/-9.42	-9.51/-12.81	-15.51/-15.11
Θ(120°)	-12.94/-14.75	-13.82/-9.23	-7.76/-9.2	-10.23/-8.83	-8.02/-11.97	-15.68/-15.03	-15/-13.75	-11.43/-9.65	-7.67/-7.64	-9.13/-10.74	-11.26/-13.26	-15.27/-15.44	-16.07/-15.32	-14.45/-12.45	-10.3/-8.61	-8.8/-10.09	-11.37/-12.11	-13.55/-15.26	-13.89/-12.24	-15.54/-14.01	-9.07/-10.62	-15.22/-10.41	-9.29/-13.41	-15.27/-13.25
Θ(127.5°)	-9.2/-11.95	-13.82/-11.52	-8.95/-9.63	-10.11/-9.1	-9.21/-15.83	-15.67/-12.64	-10.53/-10.9	-12.02/-10.91	-8.68/-7.67	-8.89/-10.96	-11.66/-13.47	-15.87/-13.91	-12.88/-13.35	-15.19/-13.45	-9.3/-8.88	-6.67/-8.59	-9.73/-13.14	-15.61/-14.48	-9.62/-9.1	-11.21/-11.63	-11.12/-12.09	-14.43/-10.46	-10.45/-13.8	-15.42/-15.55
Θ(135°)	-6.21/-8.41	-11.55/-10.26	-8.47/-9.65	-10.74/-9.85	-10.53/-15.66	-14.52/-9.98	-7.85/-8.11	-9.31/-9.58	-7.52/-6.75	-9.19/-12.12	-13.25/-14.35	-15.77/-14.89	-10.84/-10.01	-8.65/-8.2	-6.54/-6.69	-7.97/-10.26	-9.94/-11.94	-14.44/-9.83	-7.24/-7.76	-10.25/-12	-10.53/-10.74	-12.24/-11.51	-12.07/-15.12	-10.63/-6.66
Θ(142.5°)	-6.23/-9.08	-12.92/-10.36	-8.75/-10.35	-12.88/-13.09	-15.67/-15.18	-11.83/-8.46	-7.29/-8.66	-11.47/-10.8	-8.24/-8.37	-12.45/-15.03	-14.97/-11.23	-10.54/-10.3	-10.09/-10.41	-9.94/-8.84	-8.03/-9.34	-10.95/-9.84	-9.49/-10.79	-10.73/-8.2	-6.7/-8.23	-11.12/-12.04	-12.23/-10.46	-10.51/-11.52	-9.02/-6.4	
Θ(150°)	-7.12/-8.92	-12.87/-14.38	-10.27/-10.34	-15.11/-15.32	-15.1/-13.43	-9.79/-7.32	-14.02/-15.35	-15.05/-13.16	-15.17/-15.08	-8.89/-9.44	-10.89/-12.92	-11.89/-11.93	-12.96/-15.52	-15.11/-12.12	-10.47/-10.83	-10.1/-8.17	-7.06/-7.83	-10.53/-15.39	-14.2/-15.5	-11.9/-9.26	-8.52/-8.98	-8.99/-5.72		
Θ(157.5°)	-11.29/-11.3	-12.27/-13.23	-14.19/-14.54	-14.64/-12.69	-11.02/-10.15	-8.08/-7.08	-7.17/-8.48	-11.01/-14.37	-14.7/-14.4	-13/-9.79	-7.84/-7.09	-7.21/-8.03	-9.45/-11.15	-11.61/-11.9	-13.23/-14.23	-13.09/-11.07	-9.78/-9.39	-9.16/-8.71	-8.19/-8.07	-8.58/-10.13	-12.57/-13.12	-11.58/-10	-9.42/-10.23	-11.94/-11.75
Θ(165°)	-14.71/-13.09	-11.83/-11.52	-10.77/-10.21	-9.94/-9.8	-9.3/-8.55	-8.58/-8.09	-8.15/-8.6	-9.33/-9.86	-10.09/-9.74	-8.67/-7.29	-6.19/-5.63	-5.6/-6.01	-6.74/-7.79	-8.96/-9.75	-10.29/-10.75	-11.07/-10.49	-9.93/-10.1	-8.89/-9.16	-8.65/-7.66	-7.66/-8.76	-11/-12.57	-13.87/-13.24	-13.42/-14.59	-15.98/-15.18
Θ(172.5°)	-12.96/-11.94	-10.84/-10.19	-9.99/-10.08	-10.37/-10.58	-10.4/-9.9	-9.75/-9.84	-9.97/-9.81	-9.7/-9.53	-9.22/-9.85	-8.29/-7.41	-6.75/-6.39	-6.39/-6.75	-8.29/-7.41	-10.26/-10.92	-10.43/-10.39	-10.08/-9.97	-9.22/-9.03	-9.45/-10.68	-12.53/-14.33	-15.1/-15.99	-15.39/-15.42	-14.47/-13.78		
Θ(180°)	-10.63/-9.86	-9.37/-9.32	-9.76/-10.64	-10.9/-11.07	-11.42/-11.96	-11.9/-11.39	-11.29/-11.31	-11.15/-10.94	-10.74/-10.67	-10.41/-9.8	-9.65/-9.88	-10.39/-11.1	-11.84/-12.16	-12.23/-12.41	-12.87/-12.76	-12.67/-12.37	-12.7/-13.17	-13.24/-13.05	-12.91/-13.23	-13.06/-12.98	-13.28/-12.74	-12.86/-12.91	-13.09/-12.7	-12.83/-11.64
Freq(Hz)	2.45GPol.	ThetaL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-5.81/-5.7	-5.47/-5.25	-5.05/-4.95	-4.92/-5	-5.23/-6.7	-6.43/-7.03	-7.28/-7.13	-6.85/-6.55	-6.23/-6.02	-5.89/-5.73	-5.4/-5.13	-5.08/-5.15	-5.38/-5.4	-5.52/-5.54	-5.62/-6.7	-5.69/-5.76	-6.04/-6.26	-6.18/-6.83	-5.43/-5.31	-5.34/-5.33	-5.17/-5.09	-5.16/-5.37	-5.6/-5.8	-5.98/-6.03
Θ(7.5°)	-4.83/-5.01	-5.08/-5.02	-4.92/-4.77	-4.61/-4.41	-4.33/-4.48	-4.27/-4.26	-4.23/-4.13	-4.08/-4.3	-4.77/-4.91	-4.98/-5.1	-5.14/-15.9	-5.23/-5.19	-5.49/-5.42	-5.29/-5.25	-5.45/-5.88	-6.43/-7.01	-7.43/-7.5	-7.19/-6.74	-6.19/-5.66	-5.2/-6.49	-4.19/-3.91	-3.78/-3.85	-3.99/-4.15	-3.44/-3.54
Θ(15°)	-3.11/-3.36	-3.49/-3.47	-3.34/-3.14	-2.86/-2.57	-2.27/-2.02	-1.84/-1.66	-1.41/-1.16	-0.91/-0.75	-0.62/-0.58	-0.63/-0.84	-1.18/-1.58	-1.96/-2.39	-2.73/-2.96	-3.1/-3.29	-3.74/-4.29	-4.65/-4.95	-5.25/-5.35	-5.31/-5.14	-4.78/-4.07	-3.26/-2.58	-2.21/-2.88	-1.87/-1.96	-2.11/-2.3	-2.55/-2.83
Θ(22.5°)	-1.59/-1.79	-1.9/-1.92	-1.88/-1.83	-1.76/-1.65	-1.47/-1.28	-1.07/-0.84	-0.49/-0.02	0.57/-1.4	1.692/0.9	2.332/3.4	2.1/-1.68	1.207/3	0.420/3	0.30/3	0.21/-0.07	-0.62/-1.42	-2.49/-3.57	-4.49/-5.02	-4.66/-3.44	-2.23/-1.34	-0.8/-0.6	-0.64/-0.72	-0.8/-0.91	-1.09/-1.31
Θ(30°)	-0.68/-0.7	-0.81/-0.73	-0.63/-0.56	-0.62/-0.78	-0.96/-1.12	-1.22/-1.25	-1.08/-0.59	0.24/-1.27	2.34/3.28	3.914/1.8	4.093/4.74	3.272/8.3	2.572/5.2	2.612/7.1	2.662/3.1	1.590/4.9	-1.05/-2.85	-4.8/-6.19	-5.68/-3.9	-2.3/-1.15	-0.39/-0	0.090/0.5	0.03/-0.06	-0.23/-0.48
Θ(37.5°)	-0.51/-0.49	-0.290/0.7	0.540/8.0	10.82	0.480/0.8	0.320/-0.74	-1.14/-1.15	-0.480/8																



Radiated Composite Gain Data_Scan Radio 4 2.4GHz, 5GHz, 6GHz

Appendix G

Θ(22.5°)	1.220.93	0.45/-0.48	-1.37/-1.57	-1.22/-0.86	-0.64/-0.43	-0.23/-0.53	-1.41/-1.83	-1.15/-0.12	0.67/0.32	-0.67/-1.78	-2.78/-2.93	-1.95/-0.51	0.27/-0.08	-1.56/-4	-6.49/-7.18	-4.78/-2.85	-1.7/-0.96	-0.43/-0.23	-0.43/-0.87	-1.58/-2.29	-2.91/-2.77	-2.12/-0.94	0.38/0.94	1.14/-1.31	
Θ(30°)	-1.27/-2.62	-3.2/-3.21	-3.14/-2.24	-2.33/-3.16	-2.98/-2.04	-1.4/-1.24	-2.3/-12	-3.58/-2.17	-1.46/-2.97	-6.39/-8.28	-6.19/-3.46	-3.88/-3.12	-1.9/-1.96	-3.56/-7.09	-9.11/-7.29	-5.13/-4.55	-4.67/-4.84	-4.01/-2.18	-1.74/-3.22	-4.98/-6.16	-6.24/-5.18	-4.01/-3.15	-2.3/-2.03	-1.04/-0.5	
Θ(142.5°)	-1.73/-2.7	-3.29/-4.16	-5.25/-4.59	-4.22/-3.82	-3.59/-4.04	-3.84/-3.44	-3.18/-3.82	-6.6/-4.79	-2.47/-3.85	-8.85/-13.44	-9.42/-5.78	-5.18/-4.75	-3.44/-3.4	-4.34/-7.28	-8.43/-6.94	-6.34/-7.31	-8.63/-10.17	-8.35/-5.48	-5.6/-8.34	-11.73/-12.05	-9.98/-7.8	-9.63/-3.37	-2.72/-3.32	-3.33/-1.5	
Θ(45°)	-0.28/-2.35	-4.81/-6.46	-8.1/-5.63	-4.27/-3.66	-1.93/-1.98	-4.9/-6.78	-5.35/-4.26	-7.5/-6.2	-2.47/-2.9	-6.33/-10.87	-12.91/-11.86	-7.91/-4.62	-3.53/-4.53	-4.69/-8.34	-12.59/-6.83	-6.65/-7.22	-10.53/-11.03	-9.05/-8.89	-10.72/-10.4	-10.93/-9.05	-7.15/-5.72	-4.19/-3.73	-4.67/-3.74	-3.66/-1.52	
Θ(52.5°)	-2.76/-5.1	-6.37/-6.62	-6.37/-6.79	-6.4/-4.89	-6.54/-4.89	-2.91/-3.29	-5.12/-6.25	-7.75/-6.29	-8.23/-7.18	-4.88/-6.88	-7.21/-8.3	-10.04/-7.9	-6.89/-5.68	-4.3/-2.65	-3.81/-8.49	-8.73/-6.95	-6.06/-7.01	-9.57/-10.69	-9.17/-10.11	-10.35/-10.12	-9.73/-9.08	-6.04/-5.85	-5.3/-4.28	-7/-5	-3.65/-2.74
Θ(60°)	-4.36/-4.51	-5.67/-6.52	-6.74/-6.46	-5.66/-5.72	-3.35/-5.52	-6.66/-5.29	-7.78/-7.51	-7.91/-10.35	-7.8/-8.41	-8.36/-7.62	-5.16/-6.71	-7.53/-7.21	-4.28/-1.88	-4.92/-10.55	-10.32/-8.95	-7.92/-8.11	-5.9/-9.21	-9.41/-11.84	-13.71/-10.46	-6.93/-8.24	-10.61/-11.33	-9.48/-6.08	-8.12/-6.82	-7.11/-11	
Θ(67.5°)	-5.64/-3.55	-4.32/-5.1	-5.52/-5.46	-7.88/-6.52	-4.15/-5.03	-5.12/-4.51	-7.92/-8.12	-7.8/-9.63	-6.82/-5.69	-5.35/-7.78	-5.37/-7.66	-7.86/-7.5	-3.73/-2.12	-6.5/-12.05	-10.96/-9.57	-9.2/-12.01	-12.51/-7.51	-7.92/-8.73	-13.68/-7.04	-4.02/-6.53	-7.73/-10.08	-8.95/-9.92	-8.71/-6.85	-7.52/-10.89	
Θ(75°)	-8.62/-2.61	-3.92/-4.87	-5.85/-6.94	-9.9/-8.12	-5.56/-5.07	-4.6/-6.87	-10.71/-8.82	-6.28/-7.78	-6.79/-6.16	-6/-8.07	-6.76/-6.62	-9.21/-6.61	-5.1/-3.27	-7.32/-12.03	-11.25/-12.32	-9.18/-11.34	-14.84/-7.87	-6.83/-7.04	-13.51/-5.11	-2.48/-4.81	-4.16/-6.29	-8.31/-11.68	-10.83/-8.34	-9.67/-11.55	
Θ(82.5°)	-8.96/-4.21	-6.2/-7.15	-7.19/-9.98	-11.61/-10.94	-7.38/-6.51	-6.72/-9.77	-11.27/-8.5	-4.84/-6.5	-7.04/-7.55	-7.61/-9.38	-8.79/-9.48	-7.59/-6.34	-5.14/-6.17	-13.56/-14.09	-13.71/-11.84	-8.04/-9.19	-15.72/-9	-6.28/-7.96	-14.26/-4.91	-3.62/-5.4	-5.32/-6.69	-5.75/-9.25	-10.62/-10.87	-11.37/-11.41	
Θ(90°)	-10.29/-5.76	-7.34/-8.55	-5.7/-7.35	-13.86/-12.92	-11.56/-8.99	-10.22/-12.52	-10.53/-7.64	-6.02/-7.75	-9.5/-9.03	-9.33/-10	-12.62/-14.03	-10.86/-8.63	-6.48/-7.71	-15.76/-14.87	-15.46/-11.42	-9.19/-8.1	-12.88/-12.02	-5.98/-6.2	-10.69/-7.02	-5.18/-7.1	-4.91/-6.45	-7.02/-7.17	-8.56/-14.46	-12.33/-12.24	
Θ(97.5°)	-12.99/-8.36	-8.33/-8.22	-7.78/-13.69	-12.31/-11.18	-14.25/-10.38	-14.88/-12.63	-9.83/-8.56	-7.14/-10.65	-10.72/-8.45	-10.83/-10.89	-14.26/-13.77	-8.54/-10.16	-6.46/-12.95	-15.31/-14.81	-14.62/-11.32	-7.91/-8.79	-9.21/-12.72	-9.25/-9.63	-8.89/-8.64	-7.34/-8.78	-6.4/-5.82	-7.67/-7.66	-9.4/-15.08	-15.67/-12.13	
Θ(105°)	-12.04/-11.6	-9.38/-8.42	-8.12/-12.51	-11.84/-10.81	-9.61/-12.83	-14.03/-12.75	-10.73/-9.83	-9.32/-11.05	-9.13/-10.36	-10.44/-8.4	-12.22/-13.85	-10.75/-10.67	-7.85/-13.95	-14.29/-15.8	-12.66/-10.73	-11.61/-11.35	-9.19/-12.97	-10.99/-12.78	-10.88/-11.77	-8.03/-9.07	-10.25/-6.21	-9.3/-7.73	-7.85/-13.32	-15.58/-12.8	
Θ(112.5°)	-15.86/-16.03	-12.09/-9.45	-9.15/-13.13	-8.79/-10.07	-14.11/-13.2	-14.51/-16.06	-11.41/-10.21	-8.33/-9.22	-11.11/-10.19	-5.89/-7.45	-13.87/-15.44	-15.95/-11.22	-9.57/-14.06	-10.86/-14.52	-13.2/-14.47	-13.29/-12.87	-9.16/-14.76	-13.19/-13.43	-12.33/-13.23	-11.99/-11.24	-13.54/-8.72	-10.92/-7.04	-7.97/-11.39	-14.89/-14.23	
Θ(120°)	-13.3/-12.13	-11.04/-12.99	-12.07/-3.2	-4.59/-8.87	-12.36/-15.62	-12.08/-11.8	-8.78/-13.29	-12.1/-11.71	-11.62/-8.22	-6.33/-9.37	-11.47/-12.85	-11.19/-13.1	-8.21/-11.06	-10.4/-15.21	-10.45/-15.57	-12.52/-12.91	-14.01/-14.84	-12.29/-14.98	-14.6/-10.34	-13.16/-8.89	-11.29/-10.04	-14.14/-15.16			
Θ(127.5°)	-14.76/-12.72	-11.21/-8.98	-8.81/-8.94	-5.92/-10.55	-12.83/-14.92	-12.82/-11.78	-9.94/-12.72	-13.38/-12.63	-13.34/-7.6	-6.84/-8.38	-10.43/-14.29	-6.98/-12.48	-10.71/-11.75	-7.58/-11.87	-13.49/-12.54	-8.43/-13.15	-15.59/-14.44	-14.15/-15.69	-15.47/-14.86	-12.28/-14.81	-15.63/-11.08	-15.53/-10.57	-10.43/-11.68	-15.8/-15.75	
Θ(135°)	-11.65/-9.48	-7.49/-10.1	-8.24/-7.7	-9.78/-10.35	-13.91/-10.69	-11.99/-13.52	-15.04/-10.96	-11.51/-11.88	-14.67/-9.28	-9.54/-9.45	-8.89/-14.51	-8.09/-11.63	-11.06/-15.02	-10.58/-11.44	-13.76/-11.82	-9.55/-9.84	-14.84/-13.27	-14.81/-15.03	-15.18/-15.51	-12.36/-13.69	-13.12/-14.73	-11.09/-8.46	-9.81/-12.98	-13.14/-13.94	
Θ(142.5°)	-6.78/-8.74	-5.87/-6.97	-5.59/-14.94	-15.61/-6.45	-9.29/-6.65	-9.84/-11.66	-11.62/-9.48	-15.47/-10.73	-9.68/-11.81	-11.55/-10.28	-10.87/-5.82	-5.69/-10.08	-3.99/-9.08	-4.16/-5.75	-15.28/-13.3	-12.22/-10.9	-15.85/-12.24	-13.09/-13.59	-14.1/-13.01	-10.48/-14.49	-11.42/-13.09	-14.71/-13.22	-11.46/-10.91	-9.14/-5.05	
Θ(150°)	-8.47/-8.76	-5.16/-9.25	-14.48/-10.53	-10.82/-12.29	-10.53/-11.53	-14.86/-14.31	-12.29/-11.73	-14.93/-7.85	-9.45/-11.99	-8.81/-9.64	-12.73/-8.52	-10.47/-10.33	-13.21/-12.57	-9.27/-6.13	-7.89/-12.11	-14.81/-12.44	-11.19/-10.24	-13.52/-12.21	-13.17/-15.25	-15.03/-14.95	-15.83/-13.94	-14.97/-13.08	-13.7/-12.93	-11.04/-5.43	
Θ(157.5°)	-10.18/-12.05	-10.34/-9.62	-12.72/-10.23	-10.68/-11.52	-9.12/-9.93	-15.02/-13.61	-14.08/-15.5	-12.61/-14.95	-14.18/-8.36	-10.22/-15.58	-8.68/-7.4	-10.49/-11.67	-9.07/-12.38	-12.05/-7.18	-8.74/-14.63	-15.17/-15.92	-15.93/-12.95	-11.99/-13.36	-14.99/-14.83	-13.09/-12.77	-14.38/-14.61	-14.04/-11.38	-10.16/-14.46	-14.25/-9.53	
Θ(165°)	-10.72/-13.69	-14.46/-12.7	-13.47/-13.8	-15.62/-15.24	-11.06/-10.67	-13.24/-13.71	-13.23/-12.15	-12.69/-14.95	-15.27/-14.84	-11.86/-9.43	-9/-11.48	-14.21/-14.3	-10.99/-9.6	-9.52/-11.8	-13.88/-10.69	-10.11/-12.39	-15.3/-15.18	-14.15/-15.01	-14.56/-12.93	-12.39/-14.12	-15.27/-15.16	-15.63/-15.22	-15.6/-15.21	-12.11/-10.15	
Θ(172.5°)	-13.66/-15.95	-14.45/-13.01	-14.79/-15.69	-14.65/-13.99	-12.91/-12.92	-12.33/-12.06	-12.74/-13.07	-12.76/-12.96	-12.48/-12.63	-12.88/-13.76	-14.99/-15.1	-14.56/-13.29	-12.36/-11.8	-11.12/-10.7	-11.13/-13.21	-14.96/-15.16	-13.68/-12.99	-12.29/-11.45	-12.42/-13.37	-15.13/-15.66	-15.83/-14.68	-13.24/-12.97	-12.89/-12.11		
Θ(180°)	-13.27/-13.76	-14.08/-12.75	-10.56/-9.84	-10.64/-10.86	-10.44/-10.98	-10.12/-10.33	-10.45/-10.15	-10.14/-9.83	-9.48/-9.53	-9.4/-9.94	-10.58/-10.82	-11.11/-11.19	-10.66/-10.52	-10.38/-10.91	-11.47/-12.71	-14.21/-14.05	-12.89/-11.08	-10.59/-10.58	-11.15/-12	-11.1/-9.97	-9.58/-9.67	-10.79/-11.69	-12.39/-12.84	-12.8/-12.75	
Freq(Pol)	5.3GPol	ThetaL	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)	
Θ(0°)	-4.23/-3.99	-3.57/-3	-2.96/-2.81	-2.32/-1.76	-1.41/-1.23	-1.01/-1.28	-1.65/-1.9	-2.34/-2.68	-3.15/-3.66	-3.68/-3.94	-4.08/-3.56	-3.88/-4.15	-4.08/-4.22	-3.95/-3.6	-3.48/-2.97	-2.6/-2.54	-2.2/-1.79	-1.62/-1.35	-1.27/-1.32	-1.34/-1.35	-1.7/-2.23	-2.66/-3.15	-3.5/-3.89	-4.2/-4.4	
Θ(7.5°)	-2.06/-1.9	-1.93/-2.5	-3.12/-0.42	-4.23/-4.12	-3.45/-2.72	-2.09/-1.78	-1.82/-1.76	-1.89/-2.35	-2.78/-3.42	-3.76/-3.97	-4.08/-3.7	-3.69/-3.47	-2.91/-2.66	-2.64/-2.43	-2.04/-1.7	-1.68/-1.99	-2.07/-2.13	-2.34/-2.35	-2.24/-2.04	-1.69/-1.77	-2.04/-2.37	-2.65/-2.57	-2.26/-2.13	-1.89/-2.02	
Θ(15°)	-2.04/-2.19	-2.92/-2.83	-2.33/-1.72	-1.66/-1.69	-1.98/-1.98	-1.91/-1.68	-1.44/-1.06	-0.86/-1.3	-1.78/-1.79	-1.55/-1.02	-0.40/-35	0.36/-1.27	1.39/-3.12	1.21/-15	1.07/0.95	0.40/-35	-1.29/-2.41	-5.88/-5.72	-4.88/-4.65	-3.89/-3.65	-3.34/-3.61	-4.31/-4.98	-4.48/-3.54	-2.76/-2.14	
Θ(22.5°)	-4.82/-4.61	-3.88/-2.41	-0.79/0.28	0.62/0.6	0.38/-0.17	-0.9/-1.19	-0.88/-0.48	-0.39/-0.67	-0.67/0.01	0.36/0.33	0.14/0.06	0.25/0.29	0.45/0.64	0.95/1.26	1.3/0.9	0.16/-0.58	-1.22/-2.27	-4.17/-6.34	-6.02/-3.58	-2.23/-1.54	-1.71/-2.61	-3.31/-3.79	-4.07/-4.25	-5.19/-5.05	
Θ(30°)	-4.22/-4.68	-5.6/-3.54	-2.76/-0.91	0.35/1.55	2.61/0.37	2.44/1.23	3.48/3.14	2.32/2.06	2.04/2.53	3.91/4.3	3.29/2.25	2.81/2.34	2.14/2.16	2.36/2.12	0.61/-1.31	1.52/0.56	0.41/-1.22	1.22/0.82	0.42/0.02	-1.61/-2.93	-1.38/0.85	0.95/-1.73	-4.5/-3		
Θ(37.5°)	-3.05/-2.43	-2.25/-2.85	-1.71/-0.85	-0.55/0.5	1.71/2.81	3.48/3.14	2.32/2.06	2.04/2.53	3.91/4.3	3.29/2.25	2.81/2.34	2.14/2.16	2.36/2.12	0.61/-1.31	1.52/0.56	0.41/-1.22	1.22/0.82	0.42/0.02	-1.61/-2.93	-1.38/0.85	0.95/-1.73	-4.5/-3			
Θ(45°)	-3.84/-1.38	0.61/0.89	0.03/0.9	0.95/1.1	0.42/0.65	3.29/4.49	3.97/3.36	3.71/4.73	6.02/6.15	4.48/3.17	4.11/5.44	5.55/4.87	6.4/3.42	4.23/6.32	-1.0/-4.23	-3.38/0.13	2.11/1.7	0.51/0.46	0.73/0.86	1.42/1.46	0.52/-0.88	-1.94/0.07	2.41/1.3	-2.65/-5.3	
Θ(52.5°)	-1.32/0.29	2.49/3.86	2.93/1.71	1.83/0.11	-0.94/0.9	3.14/4.42	4.59/5.06	6.3/7.2	7.55/6.62	4.96/4.75	5.68/6.47	6.36/5.41	5/4.57	3.79/2.53	-2.9/4.8	-3.15/-0.42	2.62/1.82	0.63/2.56	3.16/2.23	2.14/2.53	1.9/0.52	-1.21/-2	0.61/0.81	-0.02/-2.2	
Θ(60°)	0.01/1.35	3.19/5.11	4.6/2.04	-0.03/-2.82	-1.42/1.03	2.93/3.74	4.84/6.07	7.17/7.54	7.91/6.89	5.09/5.38	6.08/6.01	5.62/5.24	4.4/3.81	2.17/0.69	-4.16/-5.08	-3.95/-0.04	3.44/1.98	0.62/7.9	3.83/2.36	1.51/2.55	2.65/1.42	-2.34/-3.49	-0.51/-0.64	0.72/-1.14	
Θ(67.5°)	0.71/0.98	2.68/4.24	4.43/1.97	-3.07/-2.98	-2.19/0.57	2.56/3.41	4.85/9.3	6.77/0.1	7.4/6.65	5.39/5.69	5.89/4.52	2.71/3.73	3.33/3	1.35/-0.69	-6.8/-5.59	-4.64/-0.38	2.97/1.53	0.67/3.27	3.78/1.97	1.25/2.22	2.71/1.79	-2.81/-3.88	0.82/-0.82	-0.22/-1.64	
Θ(75°)	0.8/0.61	1.91/3.05	3.85/1.5	-3.83/-3.85	-2.46/0.84	2.67/3																			



Radiated Composite Gain Data_Scan Radio 4 2.4GHz, 5GHz, 6GHz

Appendix G

Θ(75°)	-6.34/-0.58	-3.42/-4.27	-4.19/-4.91	-4.11/-4.64	-5.45/-5.26	-2.97/-4.52	-7.41/-6.64	-7.21/-4.92	-4.35/-4.37	-9.31/-6.43	-6.81/-6.83	-4.93/-6.81	-6.03/-5.81	-6.77/-8.46	-9.44/-11.57	-9.53/-11.18	-4.79/-4.89	-6.64/-6.91	-7.51/-9.08	-5.46/-5.52	-6.8/-7.57	-6.52/-12.91	-10.82/-5.18	-5.48/-7.9
Θ(82.5°)	-6.61/-3.58	-3.24/-3.17	-4.92/-8.66	-7.85/-7.6	-5.68/-4.61	-4.85/-7.48	-10.68/-6.74	-7.63/-5.44	-5.79/-6.9	-11.35/-6.48	-7.66/-7.65	-5.51/-6.41	-6.48/-7.23	-9.16/-10.56	-9.61/-12.27	-8.12/-11.74	-5.47/-5.13	-7.27/-6.74	-7.59/-8.02	-5.12/-5.35	-5.68/-4.97	-5.01/-10.53	-11.11/-6.78	-7.07/-8.18
Θ(90°)	-9.8/-6.36	-5.45/-6.23	-8.55/-8.36	-10.32/-8.11	-5.92/-6.32	-7.38/-10.73	-10.84/-6.24	-7.03/-6.75	-9.2/-7.15	-12.63/-8.52	-10.84/-12.11	-7.71/-6.52	-8.49/-11.19	-12.43/-12.83	-9.82/-12.67	-10.29/-9.72	-10.53/-6.39	-11.8/-9.46	-10.88/-7.61	-9.35/-6.53	-4.13/-4.03	-8.28/-8.97	-12.53/-10.08	-8.02/-10.15
Θ(97.5°)	-9.42/-6.95	-10.08/-8.78	-7.24/-7.66	-13.79/-8.75	-8.73/-10.19	-9.86/-12.83	-13.18/-7.65	-8.18/-7.99	-9.45/-8.54	-14.25/-9.14	-11.48/-14.77	-7.73/-7.47	-8.79/-11.24	-12.09/-8.99	-10.21/-14.27	-10.54/-7.25	-12.68/-8.9	-12.73/-11.21	-12.31/-9	-13.16/-8.95	-5.82/-6.04	-5.78/-9.08	-10.41/-11.55	-12.44/-11.44
Θ(105°)	-10.02/-8.12	-11.83/-9.65	-8.7/-10.13	-11.65/-9.56	-10.88/-10.97	-11.94/-13.18	-13.47/-7.55	-9.85/-10.72	-11.54/-11.04	-12.84/-11.77	-11.88/-11.14	-10.88/-9.07	-8.86/-12.92	-12.66/-9.95	-10.33/-14.17	-13.11/-6.27	-10.51/-11.83	-12.1/-10.37	-14.03/-11.55	-15.55/-10.33	-7.4/-6.64	-8.76/-9.12	-9.78/-12.7	-14.96/-13.27
Θ(112.5°)	-11.98/-8.92	-9.06/-4.69	-6.71/-11.18	-9.15/-10.98	-14.16/-12.06	-13.41/-14.28	-11.07/-11.14	-12.91/-15.54	-12.99/-10.8	-11.9/-10.06	-9.81/-10.9	-11.31/-10.08	-10.99/-15.23	-15.91/-13.71	-11.48/-11.45	-11.38/-6.98	-8.24/-13.02	-13.11/-13.03	-12.28/-13.18	-15.6/-8.53	-9.15/-7.97	-10.85/-8.29	-9.76/-12.03	-12.53/-12.35
Θ(120°)	-12.29/-14.64	-10.98/-8.52	-7.96/-5.09	-6.01/-10.15	-14.58/-12.15	-14.99/-12.83	-9.98/-9.98	-12.1/-15.39	-8.47/-10.32	-9.82/-7.32	-15.52/-11.21	-13.34/-11.31	-11.56/-12.15	-11.08/-15.47	-15.17/-14.37	-14.1/-7.34	-7.63/-13.04	-9.47/-15.99	-15.24/-10.71	-15.98/-11.59	-7.51/-13.06	-11.68/-11.41	-11.84/-14.12	-13.48/-13.56
Θ(127.5°)	-15.43/-10.4	-9.02/-7.91	-10.36/-6.7	-5.72/-8.68	-15.33/-15.31	-13.61/-14.12	-15.31/-14.12	-13.45/-14.05	-12.2/-10.1	-5.45/-9.1	-10.1/-13.73	-10.74/-15.36	-15.14/-11.27	-12.54/-14.66	-12.77/-13.3	-10.57/-8.79	-10.1/-14.92	-10.35/-12.36	-15.81/-12.62	-15.02/-14.1	-10.75/-11.29	-11.68/-12.6	-14.3/-13.04	-12.73/-14.99
Θ(135°)	-14.43/-10.99	-10.88/-11.37	-7.77/-6.92	-10.3/-11.04	-12.59/-13.47	-14.54/-14.08	-12.57/-14.44	-14.03/-15.42	-15.65/-6.49	-6.89/-10.46	-8.68/-15.56	-12.69/-15.39	-11.52/-15.71	-11.56/-12.93	-10.67/-10.11	-10.95/-12.19	-10.36/-12.82	-15.09/-15.22	-15.89/-15.26	-13.97/-12.17	-14.48/-14.7	-15.66/-14.1	-10.31/-11.51	-15.56/-11.47
Θ(142.5°)	-11.18/-6.05	-5.35/-3.7	-4.47/-11.87	-13.68/-11.81	9.54/-10.38	-12.49/-13.18	-15.29/-11.84	-15.14/-12.88	-15.11/-11	-10.89/-8.76	-7.29/-11.89	-10.67/-12.61	-11.7/-12.08	-11.59/-8.9	-10.34/-10.19	-14.51/-11.29	-12.93/-14.18	-12.36/-15.35	-11.95/-15.13	-14.68/-14.12	-12.74/-14.09	-12.78/-14.13	-10.49/-9.72	-11.74/-9.36
Θ(150°)	-9.7/-13	-7.8/-13.37	-7.74/-11.68	-15.16/-15.22	-14.45/-12.28	-11.38/-11.67	-8.34/-9.5	-15.6/-14.02	-9.63/-15.37	-13.42/-6.22	-8.52/-10.25	-7.06/-11.73	-6.47/-9.75	-9.3/-6.41	-11.4/-14.97	-16.04/-15.35	-15.51/-14.88	-15.31/-14.21	-11.73/-14.37	-15.83/-14.92	-13.57/-14.36	-11.74/-14.06	-11.8/-11.9	-6.68/-3.89
Θ(157.5°)	-13.55/-13.02	-10.88/-14.87	-16.04/-11.97	-15.72/-13.55	-13.28/-15.37	-15.81/-12.63	-13.26/-12.31	-13.25/-14.04	-13.04/-18	-9.1/-14.34	-12.81/-9.94	-14.12/-11.13	-6.61/-7.53	-13.72/-12.31	-10.28/-10.69	-14.29/-14.82	-14.96/-15.28	-15.71/-14.62	-15.03/-15.34	-14.03/-12.96	-11.15/-12.59	-10.34/-9.79	-11.83/-10.32	
Θ(165°)	-12.47/-11.12	-12.81/-14.86	-14.1/-12.55	-13.34/-13.52	-12.31/-14.13	-15.49/-14.82	-14.8/-11.2	-9.52/-9.81	-12.22/-12.5	-12.35/-10.14	-9.47/-9.15	-10.86/-13.67	-14.87/-16.16	-15.41/-15.13	-13.12/-12.94	-13.96/-12.8	-13.43/-16.12	-15.98/-15.04	-13.87/-13.83	-13.11/-14.79	-14.8/-14.49	-11.84/-10.05	-9.84/-10.81	-13.53/-13.71
Θ(172.5°)	-11.56/-11.56	-12.46/-13.39	-11.39/-10.95	-11.82/-13.24	-14.37/-13.97	-13.18/-12.53	-14.95/-15.43	-14.57/-15.16	-15.19/-13.14	-12.76/-13.29	-13.31/-14.11	-15.02/-15.33	-15.56/-14.95	-15.23/-16.21	-15.92/-15.64	-15.47/-14.89	-15.15/-14.71	-14.18/-13.53	-13.86/-13.43	-13.75/-15.54	-13.98/-13.88	-14.12/-13.98	-13.19/-12.49	-12.04/-11.43
Θ(180°)	-15.43/-15.9	-14.62/-13.98	-13.81/-14.98	-15.02/-15.38	-12.65/-11.35	-10.91/-11.17	-12.39/-12.98	-13.26/-12.58	-12.84/-13.46	-14.06/-14.71	-15.1/-15.26	-15.05/-15.37	-15.9/-15.12	-12.83/-12.66	-13.01/-12.38	-11.93/-12.33	-13.18/-12.95	-13.29/-14.79	-13.29/-14.14	-13.15/-10.95	-10.55/-10.6	-10.21/-10.46	-11.92/-14.23	-15.75/-15.56
Freq(Hz)	5.785GPol.	ThetaL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	0.681/0.8	1.31/22	1.181/1.9	1.140/7.2	0.12/-0.23	-0.73/-1.15	-1.81/-2.46	-2.96/-2.88	-2.71/-2.42	-2.47/-2.52	-2.34/-1.79	-1.47/-1.01	-0.420/0.8	0.390/5.4	0.830/9.4	0.830/7.4	0.33/-0.15	-1.26/-1.51	-1.61/-1.67	-1.96/-2.02	-1.92/-1.87	-1.28/-1.04	-0.732/0.7	
Θ(7.5°)	-2.04/-1.41	-1.18/-0.95	-0.46/0	0.52/0.4	-0/-0.15	-0.54/-0.77	-1.16/-1.52	-1.71/-1.6	-1.19/-0.96	-0.85/-0.73	-0.20/25	0.440/7.7	0.840/98	1.221/28	1.331/32	1.41/31	0.850/0.9	-0.53/-1.38	-1.59/-1.87	-2.42/-2.65	-2.5/-2.36	-2.73/-2.93	-2.94/-3.25	-2.91/-2.68
Θ(15°)	-4.16/-3.16	-2.32/-1.83	-1.62/-1.4	-1.03/-0.54	0.040/7.5	1.05/-1.5	0.910/7.9	1.071/45	1.792/15	2.252/0.5	1.490/86	0.28/-0.4	-0.85/-0.43	-0.130/11	0.570/73	0.39/-0.34	-1.22/-1.8	-1.93/-1.86	-1.57/-1.15	-1.1/-1.27	-1.54/-2.36	-3.53/-5.05	-5.33/-1.54	
Θ(22.5°)	-4.09/-1.9	-0.41/0.34	0.550/4.1	-0/-0.101	-1.65/0.78	0.521/4	1.531/58	2.283/25	3.523/19	2.221/34	0.880/52	0.17/-0.27	-0.35/-0.19	0.010/0.3	-0.6/-1.19	-0.92/-0.52	-0.68/-0.29	-1.45/-2.79	-4.01/-4.45	-4.82/-4.32	-3.75/-2.99	-2.78/-3.47	-4.84/-4.88	
Θ(30°)	-2.15/-1.9	-0.67/0.08	0.451/0.7	0.72/-0.65	-2.19/-3.04	-2.67/-1.25	-0.240/4.1	1.774/0.2	5.144/9.2	4.253/25	2.42/25	2.62/2.9	2.732/76	2.92/2.8	2.020/96	0.580/46	0.621/41	1.50/68	-0.77/-2.18	-2.91/-2.55	-2.22/-2.79	-4.11/-3.34	-2.08/-1.72	-2.25/-2.8
Θ(37.5°)	2.1/1.8	-1.16/-0.52	-0.06/-0.78	-2.08/-3.61	-3.32/-4.45	-1.11/0.71	0.862/8.1	4.6/5.34	4.994/35	4.734/48	4.374/24	4.293/75	2.952/0.8	0.62/-0.41	-0.121/28	1.450/53	1.012/0.2	1.751/1.4	1.120/47	-0.68/-0.79	-1.02/-1.5	-3.53/-5.48	-3.33/-0.97	0.140/7.2
Θ(45°)	2.673/0.34	1.930/22	-0.53/-1.04	-3.97/-6.69	-4.21/-1.73	1.11/1.96	3.355/4.1	7.067/75	6.97/8.95	5.074/19	4.335/0.5	5.454/96	3.020/68	-2.02/-3.79	-1.432/43	1.95/-0.82	0.042/24	0.73/-1.4	-1.98/-1.57	-0.661/47	2.062/23	1.541/2.6	-1.110/49	0.961/26
Θ(52.5°)	2.12/3.54	4.84/3.94	1.971/6.6	-1.09/-3.62	-2.421/0.3	2.953/32	4.84/6.41	7.58/0.8	7.24/6.72	6.224/75	4.734/84	4.224/52	3.240/3	-1.9/-4.1	-1.37/3.53	1.97/-0.77	1.62/3.63	2.320/98	0.69/1.1	0.79/1.2	1.432/33	2.66/-0.31	-1.1/-0.12	0.22/-0.38
Θ(60°)	3.434/55	5.94/68	2.571/89	-2.63/-2.73	0.333/8.4	4.624/11	5.396/86	6.976/87	5.674/89	4.583/99	3.662/97	3.234/28	3.880/85	-1.42/-2.64	-1.083/98	2.08/-0.32	1.22/3.9	3.582/1	1.081/29	-0.081/71	2.77/3.4	3.840/11	0.1/-0.55	-0.21/-0.02
Θ(67.5°)	3.724/0.7	5.133/79	2.691/34	-4.78/-10.9	2.84/73	4.413/39	4.696/0.7	5.344/82	3.171/74	-0.032/94	3.702/72	1.382/68	2.23/-0.51	-2.88/-2.73	2.71/54	1.590/26	1.392/79	2.71/54	1.03	-7.592/73	3.663/6	3.871/-0.16	-0.22/-1.36	-1.72/-0.08
Θ(75°)	2.412/7.4	3.222/35	3.351/42	-4.2/-1.22	3.734/3	2.962/23	3.074/52	3.342/93	2.240/28	-5.270/51	2.78/-0.93	-2.12/0.8	1.860/12	-5.42/-3.44	-0.223/31	1.441/33	0.920/51	0.730/64	1.0/95	1.333/35	4.494/0.5	3.16/-0.03	-0.45/-2.87	-3.09/-0.77
Θ(82.5°)	0.891/97	1.28/-0.18	2.740/21	-4.93/-0.59	3.97/33	1.311/0.3	1.812/87	2.162/67	2.11/-0.54	-6.17/-0.23	1.92/-1.41	-3.75/0.1	1.67/-0.92	-5.42/-2.48	0.62/42	0.280/23	0.42/-0.5	-0.390/52	1.562/62	3.474/44	5.54/5.05	1.72/-0.21	-1.53/-4.47	-3.77/-1.98
Θ(90°)	-1.6/-0.04	-0.3/-0.87	2.24/-0.5	-5.09/-2.08	2.92/33	-0.7/-1.13	-0.620/0.5	-0.161/8.1	1.56/-0.99	-5.75/-3	0.27/-2.11	-3.77/-4.11	0.96/-0.78	-5.91/-5.79	-1.260/19	-2.582/-1.97	0/-2.64	-2.370/37	2.583/0.2	4.1884/7	5.194/0.6	0.75/-0.96	-2.77/-7.53	-4.29/-3.72
Θ(97.5°)	-3.81/-2.83	-3.52/-2.9	1.65/-1.65	-5.88/-3.82	1.230/63	-2.242/-2.31	-2.45/-2.18	-3.08/-0.29	-0.01/-1.97	-8.48/-3.48	-2.05/-5.65	-5.96/-4.53	-0.23/-3.32	-9.06/-7.09	-1.64/-2.12	-5.66/-2.4	-0.9/-6.8	-6.39/-0.7	1.611/85	2.353/19	4.12/74	-0.01/-1.18	-4.52/-9.23	-5.66/-6.14
Θ(105°)	-5.04/-4.39	-4.61/-3.59	0.82/-2.58	-5.49/-4.23	-0.14/-2.68	-4.87/-2.48	-5.04/-5.11	-4.02/-1.75	-0.67/-3.6	-12.78/-6.37	-4.17/-8.37	-6.64/-8.52	-3.18/-3.76	-1.61/-8.8	-3.43/-3.12	-8.16/-3.08	-1.53/-6.48	-8.84/-4.46	-0.79/-9.09	0.010/21	2.11/0.2	-1.62/-1.33	-4.32/-11.76	-6.25/-6.99
Θ(112.5°)	-7.58/-5.75	-5.72/-4.75	-1.98/-4.48	-7.05/-3.28	-1.28/-3.81	-8.86/-4.45	-6.72/-7	-4.5/-2.59	-0.92/-3.55	-7.12/-5.49	-2.28/-7.1	-11.29/-5.59	-2.97/-4.77	-11.82/-7.62	-5/-4.96	-9.05/-5.26	-2.65/-5.69	-10.2/-5.22	-3.83/-2.45	-0.24/-0.69	0.21/-1.48	-2.92/-5.68	-7.12/-11.54	-7.41/-10.62
Θ(120°)	-8.74/-7.72	-8.29/-8.71	-4.19/-3.91	-3.64/-2.6	-3.49/-5.19	-5.95/-5.4	-11.5/-12.27	-5.95/-7	-3.86/-4.6	-4.18/-5.52	-2.88/-7.32	-10.01/-6.15	-2.78/-8.62	-12.44/-8.77	-5.71/-9.1	-9.24/-11.46	-5.14/-5.54	-8.35/-4.62	-3.43/-3.11	-0.33/-0.6	-0.86/-3.39	-3.79/-5.48	-7.72/-7.67	-6.84/-10.73
Θ(127.5°)	-8.6/-5.38	-5.6/-4.07	-5.26/-5.6	-1.2/-3.43	-6.32/-7.41	-6.45/-4.63	-10.12/-9.76	-5.82/-6.51	-2.62/-3.93	-9.92/-9.41	-8.25/-12.74	-9.84/-10.29	-4.62/-8.09	-11.3/-										



Radiated Composite Gain Data_Scan Radio 4 2.4GHz, 5GHz, 6GHz

Appendix G

Θ(127.5°)	-11.71/-10.98	-7.29/-6.2	-8.14/-4.61	-7.57/-12.09	-11.71/-15.32	-13.38/-10.27	-9.98/-10.28	-11.93/-11.33	-10.18/-10.35	-12.71/-10.62	-10.48/-15	-15.06/-11.37	-12.54/-15.66	-11.15/-9.22	-7.96/-9.26	-10.04/-12.26	-13.12/-11.68	-11.82/-12.94	-15.42/-9.14	-14.65/-11.72	-7.76/-7.47	-10.79/-11.85	-9.81/-8.04	-10.73/-12.9
Θ(135°)	-6.09/-7.12	-6.73/-12	-7.7/-8.7	-9.67/-11.99	-12.77/-12.61	-12.66/-9.28	-11.2/-11	-12.79/-15.05	-12.44/-9.06	-10.97/-11.82	-11.16/-12.12	-10.28/-8.78	-10.49/-13.81	-10.63/-7.58	-8.75/-8.79	-8.51/-14.14	-15.72/-14.72	-10.97/-9.78	-11.28/-9.45	-10.05/-11.12	-6.24/-7.58	-15.26/-11.14	-9.58/-6.39	-9.81/-15.68
Θ(142.5°)	-12.64/-10.94	-8.1/-7.59	-13.32/-12.11	-11.44/-7.1	-10.41/-14.61	-13.71/-11.67	-14.79/-14.76	-15.53/-13.87	-12.44/-14.86	-8.63/-11.88	-16.1/-12.47	-7.75/-7.66	-10.36/-12.85	-8.97/-8.95	-7.75/-8.55	-11.02/-15.51	-11.56/-14.16	-12.42/-13.74	-10.76/-11.53	-9.04/-10.17	-8.79/-12.77	-15.74/-15.31	-9.74/-10.31	-8.92/-7.95
Θ(150°)	-16.07/-8.7	-9.56/-10.61	-10.38/-15.71	-15.65/-14.76	-10.73/-11.32	-12.08/-13.03	-12.31/-13.02	-15.77/-11.16	-12.98/-11.93	-11.57/-10.74	-10.42/-14.81	-9.32/-9.79	-9.78/-8.6	-10.61/-9.8	-10.57/-13.58	-12.68/-11.87	-14.73/-13.62	-14.71/-13.46	-12.42/-14.71	-15.42/-12.81	-10.86/-12.08	-13.48/-11.09	-10.52/-12.57	-10.77/-9.75
Θ(157.5°)	-13.2/-12.03	-14.79/-15.74	-13.89/-15.88	-15.69/-15.62	-15.95/-15.97	-13.72/-11.54	-8.37/-9.48	-13.78/-13.94	-12.83/-11.33	-11.66/-10.36	-12.51/-12.51	-8.5/-8.77	-11.93/-10.91	-8.71/-9.1	-10.29/-12.05	-14.96/-14.4	-13.95/-15.37	-15.62/-14.83	-15.29/-13.62	-11.77/-10.31	-11.67/-14.39	-12.64/-11.02	-14.57/-14.59	-11.94/-11.12
Θ(165°)	-15.33/-14.92	-14.13/-13.68	-14.53/-14.16	-14.22/-10.45	-11.67/-14.56	-11.44/-12.14	-11.69/-12.01	-13.61/-15.61	-15.68/-13.51	-11.71/-10.88	-11.26/-12.95	-15.01/-15.04	-15.26/-14.97	-15.93/-14.89	-15.55/-14.18	-13.08/-13.18	-12.76/-12.16	-15.59/-12.83	-13.58/-13.93	-13.78/-14.71	-15.53/-14.43	-14.02/-10.78	-10.12/-9.67	-10.51/-11.66
Θ(172.5°)	-15.2/-15.13	-15.77/-13.61	-13.46/-15.18	-15.78/-15.81	-14.44/-12.43	-10.98/-10.05	-9.56/-8.76	-9.32/-11.78	-14.67/-15.79	-15.15/-15.24	-16.19/-14.26	-14.27/-15.12	-15.58/-15.33	-15.42/-14.9	-15.92/-14.73	-15.01/-15.19	-14.75/-13.5	-13.16/-12.43	-14.17/-14.45	-15.89/-14.48	-14.03/-13.66	-12.31/-9.79	-9.09/-10.11	-11.74/-13.94
Θ(180°)	-13.19/-12.77	-13.18/-14.91	-15.17/-13.56	-11.54/-11.33	-11.46/-12.25	-12.26/-11.86	-12.61/-12.39	-12.86/-13.19	-14.9/-14.64	-15.69/-15.38	-15.93/-14.29	-15.11/-15.71	-15.48/-15.72	-13.24/-13.36	-12.61/-12.4	-12.01/-12.39	-11.21/-10.69	-10.17/-10.85	-12.11/-13.79	-13.86/-15	-14.52/-14.75	-14.74/-14.44	-14.64/-12.96	-12.17/-13.21
Freq(Hz)	6.475GPol.	Theta/-	Phi/-	Theta/-	Phi/-	Theta/-	Phi/-	Theta/-	Phi/-	Theta/-	Phi/-	Theta/-	Phi/-	Theta/-	Phi/-	Theta/-	Phi/-	Theta/-	Phi/-	Theta/-	Phi/-	Theta/-	Phi/-	Theta/-
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	4.924.83	4.634.3	3.953.56	3.162.77	2.171.46	0.52/-0.16	-0.73/-0.03	0.68/-1.67	2.493.57	3.984.57	4.925.16	5.425.51	5.585.5	5.315.06	4.794.38	3.833.26	2.692.25	1.81/-1.8	0.90.93	1.452.08	2.63/-1.8	3.734.12	4.314.55	4.744.9
Θ(7.5°)	3.363.6	3.713.57	3.443.39	3.462.65	3.042.65	2.051.61	1.271.59	1.952.51	2.93.44	3.733.93	4.214.47	4.614.69	4.714.58	4.321.14	3.783.21	2.451.85	1.205.51	-0.34/-1.24	-1.71/-1.81	-0.81/0.05	0.81/65	2.22.53	2.822.93	3.033.11
Θ(15°)	1.130.69	0.781.5	2.633.34	3.63.39	2.822.04	1.351.31	1.451.94	2.372.86	3.012.93	3.023.26	3.614.02	4.214.36	4.354.16	4.083.97	3.512.64	1.520.31	-0.45/-0.71	-0.56/0.11	0.190.38	0.08/-0.42	-1.18/-1.82	-1.26/-0.18	0.851/48	1.831.64
Θ(22.5°)	2.481.76	1.291/83	1.982.26	2.592.49	2.221.81	1.571.186	2.523.2	3.282.85	2.271.97	2.392.83	3.223.43	3.583.62	3.312.89	2.692.94	3.132.62	1.5/-0.09	-1.69/-3.25	-3.74/-3.64	-2.1/-1.43	-0.9/-1.03	-2.09/-2.75	-2.96/-3.26	-1.950.6	2.282.86
Θ(30°)	0.890.36	0.671.46	1.621.03	1.111.32	1.571.15	1.432	2.573.24	3.393.51	3.222.73	2.462.05	1.481.12	0.740.38	0.270.18	0.110.55	0.840.4	-0.10/-0.85	-2.65/-2.44	-6.54/-6.19	-5.76/-4.96	-4.19/-5.26	-7.87/-8.53	-5.24/-1.88	-0.14/-0.55	0.431.17
Θ(37.5°)	0.12/-1.59	-3.14/-2.12	-1.34/-1.05	0.121.38	1.61/1.23	1.382/28	2.933.3	2.963.09	3.913.98	3.171.75	0.350.13	-0.17/-1.68	-2.45/-1.5	-0.740.78	1.450.09	-0.72/-1.13	-3.58/-7.21	-4.84/-3.53	-3.44/-2.89	-2.64/-2.87	-3.49/-3.94	-3.21/-3.09	-0.730.33	0.180.4
Θ(45°)	0.93/-0.22	-4.19/-5.52	-3.47/-2.48	-1.380.21	1.131.25	1.941.84	3.153.49	1.730.85	2.762.13	0.820.6	0.380.72	0.38/-0.74	-2.12/-2.84	-2.260.46	1.11/-0.49	-3.56/-6.51	-9.21/-7.71	-3.35/-0.59	-0.46/-1.59	-3.11/-2.43	-4.72/-5.7	-4.19/-2.03	-3.65/-1.38	-1.76/-0.77
Θ(52.5°)	2.231.1	-1.5/-3.54	-2.36/-2.41	-2.17/-0.8	-1.031.81	-0.070.99	3.292.42	-2.23/-0.22	2.16/-2.07	-0.930.33	1.231.93	0.46/-0.83	-0.92/-1.22	-2.72/-2.4	2.09/-6.37	-7.28/-7.5	-9.14/-8.26	-3.92/-0.41	-0.18/-0.95	-0.55/-2.49	-3.32/-4.68	-3.890.09	-4.4/-4.96	-2.810.8
Θ(60°)	3.532.21	1.118/-0.67	-0.67/-3.06	-3.61/-1.63	-2.32/-3.15	-0.080.64	2.680.48	-2.510.18	0.12/-3.06	-0.320.39	1.332.68	2.16/-0.56	-1.53/-0.25	-1.84/-7.66	5.42/-6.32	4.06/-4.24	-6.71/-7.23	-4.31/-0.42	0.70.27	2.760.92	-0.6/-0.75	-1.721.35	-2.17/-5.78	-0.742.85
Θ(67.5°)	3.882.66	2.831/71	0.77/-3.69	-3.1/-1.6	-1.26/-2.68	0.34/-0.17	1.032/-0.24	-2.22/-1.22	-3.76/-3.99	0.503.03	0.681/89	2.92/-0.17	-2.51/-0.77	-1.73/-12.74	-6.98/-2.83	-1.231.23	-5.96/-2.91	-1.05/-1.01	-0.240.72	3.742.14	0.781/11	0.641/74	-1.35/-3.09	1.033.93
Θ(75°)	3.631.37	2.292.28	1.16/-1.28	-2.44/-0.7	-0.673.31	-0.990.05	0.94/-2.29	-4.91/-5.2	-6.41/-5.7	-0.48/-1.13	-1.410.68	1.830.02	-5.6/-0.48	-0.97/-6.83	-8.31/-163	1.31/-0.92	-2.81/-3.97	-0.32/-1.88	-0.27/-0.38	3.011.62	1.122.06	1.770.89	-2.93/-3.14	0.693.69
Θ(82.5°)	2.47/-0.93	1.52/-1.7	1.35/-2.43	-2.44/-0.79	-0.84/-3.43	-1.54/-1.08	1.03/-2.05	-4.96/-9.53	-8.94/-6.75	-2.07/-3.26	-3.99/-0.8	0.08/-1.44	-6.61/-1.67	-2.46/-9.48	-6.77/-0.01	2.532.11	-2.35/-0.98	-0.82/-3.29	-2.29/-0.65	2.461.35	1.762/25	1.99/-0.88	-5.05/-3.59	0.292.3
Θ(90°)	1.62/-3.59	-0.80.75	-0.14/-3.61	-4.98/-2.48	-2.44/-4.24	-0.98/-2.31	0.16/-3.85	-4.84/-9.05	-7.87/-10.14	-4.82/-3.91	-7.15/-2.49	-6.86/-2.83	-1.92/-2.02	-7.15/-2.49	-2.43/-9.81	-8.37/-0.75	2.261.38	-3.43/-3.66	-3.21/-6.28	-3.76/-0.32	2.651.33	2.12/-1.93	-7.65/-3.53	-1.260.45
Θ(97.5°)	0.45/-5.2	-0.43/-1.59	-1.91/-4.24	-5.71/-3.01	-4.89/-5.8	-3.97/-3.19	-1.657/-1.91	-5.23/-8.3	-8.23/-9.24	-5.48/-4.84	-7.46/-7.67	-2.57/-5.07	-6.55/-2.01	-3.48/-10.46	-10.28/-2.08	0.661/-1.59	-6.97/-6.46	-5.25/-8.14	-3.69/-0.79	2.090.38	1.411.83	1.481/-4.78	-1.126/-6.44	-3.15/-1.07
Θ(105°)	-2.12/-6.4	-6.74/-2.71	-1.63/-2.41	-5.55/-3.15	-5.79/-6.3	-6.89/-4.69	-3.15/-6.13	-6.14/-9.32	-11/-12.52	-6.41/-7.58	-11.82/-6.57	-4.65/-6.78	-7.42/-4.33	-4.74/-10.02	-10.2/-4.78	-1.18/-3.45	-6.28/-6.08	-4.94/-9.27	-5.38/-2.29	-0.19/-1.9	-0.58/-0.37	-1.37/-6.47	-9.7/-6.64	-4.9/-2.85
Θ(112.5°)	-3.32/-6.91	-9.72/-5.3	-1.99/-2.48	-8.84/-7.2	-8.66/-13.8	-6.61/-6.33	-6.51/-7.47	-8.8/-11.29	-11.16/-13.83	-10.02/-13.22	-7.54/-7.08	-6.23/-12.54	-11.2/-6.24	-5.42/-11.1	-7.86/-3.98	-2.11/-4.87	-7.25/-6.25	-5.53/-13.13	-9.42/-5.13	-4.05/-6.25	-4.26/-3.64	-6.64/-6.55	-7.91/-8.43	-6.98/-3.67
Θ(120°)	-5.29/-8.66	-6.61/-7.87	-4.21/-5.99	-11.47/-7.33	-6.83/-8.84	-7.99/-6.96	-6.601/-7.41	-10.06/-9.54	-10.25/-12.68	-6.05/-6.05	-7.11/-5.06	-6.66/-12.54	-9.84/-5.33	-7.77/-8.58	-10.2/-8.78	-9.03/-15.5	-12.11/-6.44	-3.01/-3.64	-6.75/-6.37	-5.56/-8.71	-7.56/-6.84	-1.126/-6.44	-3.15/-1.07	
Θ(127.5°)	-5.64/-6.23	-6.87/-8.08	-6.65/-5.33	-11.84/-5.36	-9.78/-12.46	-9.93/-9.97	-9.73/-11.68	-12.02/-12.06	-11.79/-10.55	-13.59/-11.03	-9.22/-8.32	-10.87/-8.62	-7.46/-6.73	-10.51/-15.19	-12.14/-10.03	-9.56/-11.6	-14.2/-14.15	-14.65/-12.67	-9.45/-8.79	-2.35/-2.74	-7.88/-7.89	-5.57/-7.49	-8.97/-5.85	-6.26/-8.09
Θ(135°)	-7.61/-23	-7.7/-6.66	-7.81/-8.06	-8.59/-6.81	-8.21/-14.3	-9.08/-9.26	-10.84/-11.93	-11.27/-10.66	-10.96/-11.17	-15.58/-14.23	-14.68/-12.32	-12.6/-9.67	-5.93/-5.73	-8.63/-12.66	-11.07/-10.62	-11.23/-9.26	-11.46/-10.45	-13.53/-9.19	-9.09/-7.28	-4.73/-5.92	-7.64/-10.85	-9.67/-9.96	-10.64/-6.71	-8.64/-9.78
Θ(142.5°)	-8.42/-7.88	-12.35/-11.31	-15.81/-13.93	-10.38/-9.94	-10.74/-13.82	-9.97/-8.96	-11/-14.06	-11.89/-11.25	-13.46/-13.16	-11.97/-10.23	-13.12/-14.33	-11.23/-9.73	-9.88/-9.79	-10.72/-15.44	-12.74/-13.58	-10.87/-10.05	-9.79/-9.43	-13.61/-11.37	-10.08/-10.84	-8.82/-8.39	-12.91/-15.31	-10.66/-7.35	-9.43/-10.86	
Θ(150°)	-8.67/-8.38	-7.18/-7.86	-9.96/-12.19	-10.92/-12	-12.87/-10.07	-9.78/-10.21	-13.64/-13.53	-12.54/-11.77	-13.11/-14.22	-15/-12.87	-11.61/-10.29	-8.97/-9.8	-9.12/-8.07	-9.24/-10.08	-13.15/-12.99	-14.72/-12.39	-9.78/-10.01	-9.46/-12	-15.44/-13.87	-15.06/-12.91	-11.07/-10.9	-11.34/-9.93	-8.51/-9.73	-11.1/-9.04
Θ(157.5°)	-8.62/-8.48	-15.48/-13.12	-9.73/-11.37	-15.17/-16.28	-12.83/-9.79	-9.67/-12.24	-14.17/-15.78	-14.75/-13.02	-11.49/-12.26	-12.73/-13.36	-15.15/-15.55	-15.55/-14.23	-12.05/-11.4	-11.08/-14.94	-14.39/-12.62	-13.1/-14.32	-13.99/-13.39	-16.19/-15.14	-13.65/-15.34	-14.8/-11.41	-9.18/-8.55	-9.43/-11.36	-12.8/-13.63	-12/-9.26
Θ(165°)	-11.81/-12.28	-12.82/-14.01	-15.66/-15.45	-14.68/-14.74	-14.27/-11.78	-10.86/-11.74	-15.61/-15.21	-14.23/-14.44	-14.09/-15.09	-15.33/-15.16	-15.77/-14.02	-13.02/-13.16	-13.66/-13.77	-15.37/-15.52	-14.67/-14.92	-14.85/-15.37	-15.41/-15.96	-14.31/-13.15	-13.16/-11.62	-9.71/-9.33	-11.65/-14.96	-16.08/-14.04	-11.92/-11.19	
Θ(172.5°)	-15.37/-14.66	-13.84/-11.97	-10.95/-10.87	-11.05/-11.67	-11.47/-13.02	-14.07/-15.9	-15.271/-16.21	-15.59/-15.52	-14.47/-14.21	-14.02/-14.44	-15.26/-15.29	-15.76/-16.08	-16.03/-14.64	-13.14/-12.65	-13.15/-14.36	-15.22/-14.71	-15.71/-14.72	-15.35/-15.66	-13.34/-12.66	-12.98/-12.69	-11.99/-12.8	-14.07/-14.98	-15.27/-15.86	
Θ(180°)	-12.75/-12.27	-13.19/-12.29	-12.53/-12.92	-13.53/-13.91																				



Radiated Composite Gain Data_Scan Radio 4 2.4GHz, 5GHz, 6GHz

Appendix G

Θ (180°)	-15.3/-14.36	-14.6/-14.84	-14.73/-14.96	-14.74/-14.51	-13.34/-12.44	-12.04/-12.93	-14.94/-15.93	-15.56/-15.32	-15.48/-15.11	-15.83/-14.84	-14.34/-13.45	-14.23/-13.39	-13.05/-12.94	-13/-14.02	-14.12/-15.5	-15.03/-16.17	-14.99/-14.72	-14.16/-12.99	-13.54/-13.32	-12.73/-13.68	-13.64/-13.99	-13.53/-12.98	-13.41/-14.4	-15.95/-15.65
Freq(Hz)	6.995GPol.	Theta-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DG(dB)	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	6.36/6.12	5.75/5.16	4.59/4.18	3.38/3.02	2.8/2.82	2.86/3.18	3.37/4.07	4.76/5.48	6.09/6.6	7.01/7.46	7.63/7.71	7.59/7.38	7.09/6.51	5.91/5.13	4.28/3.44	2.46/1.92	1.82/2.08	2.24/2.51	2.81/3.24	3.81/4.37	5.04/5.69	6.03/6.28	6.44/6.62	6.6/6.61
Θ (7.5°)	6.95/6.57	5.77/5.37	4.82/4.25	3.9/3.5	3.42/3.6	3.67/3.63	3.9/3.85	3.88/3.8	3.6/3.88	4.7/5.63	6.36/6.86	7.09/7.23	7.17/6.89	6.43/5.78	4.89/3.88	3.16/2.9	3.16/3.5	3.71/3.98	4.31/4.66	5.22/5.9	6.46/6.88	7.04/7.24	7.23/7.28	7.22/7.09
Θ (15°)	4.2/4.52	4.82/4.88	4.54/3.95	3.41/3.1	3.25/3.58	3.72/3.74	3.88/3.97	4.23/4.37	4.36/4.3	4.21/4.24	4.64/5.38	6.22/6.94	7.26/7.22	6.85/6.09	5.15/4.22	3.33/2.88	2.98/3.45	3.87/3.83	3.94/3.9	3.92/4.19	4.54/4.7	4.36/4.04	3.81/3.95	
Θ (22.5°)	2.17/2.01	2.29/2.51	2.44/2.48	2.1/1.62	1.51/2.04	2.4/2.43	2.04/1.64	1.83/2.73	3.38/3.53	3.04/1.99	1.34/1.4	2.08/2.75	3.23/3.49	3.48/2.91	2.21/2.06	2.14/2.44	3.16/3.86	4.19/4.05	3.48/2.6	1.42/0.9	1.26/1.75	1.81/2.28	3.06/3.61	3.51/3.13
Θ (30°)	1.24/0.68	0.79/1.2	1.46/2.07	2.2/1.34	0.5/1.3	2.19/2.62	2.3/1.72	1.4/1.4	1.67/1.7	1/0.56	-0.04/-0.55	-0.88/-1.22	-1.08/-0.15	0.39/-0.61	-1.16/-0.36	-0.3/-0.57	0.18/1.28	1.64/0.85	-0.25/-1.16	-2.38/-2.91	-1.34/-0.1	-1.49/-4.48	-6.21/-3.33	-0.01/1.72
Θ (37.5°)	0.28/-2.06	-3.08/-1.85	-1.65/-1.62	-1.7/-1.37	-0.55/-1.81	-1.3/1.15	0.42/-0.18	0.95/1.06	0.93/0.51	-0.08/-0.03	-1.79/-2.66	-3.55/-5.43	-5.42/-3.02	-2.48/-3.9	-4.15/-1.97	-1.65/-2.75	-1.96/0.21	0.46/-0.4	0.3/0.93	-0.99/-4.39	-5.5/-4.82	-5.57/-5.6	-5.92/-4.37	0.58/2.2
Θ (45°)	0.51/-3.62	-6.55/-7.4	-9.03/-8.48	-11.56/-6.38	-3.77/-6.18	-4.44/-0.1	-1.29/-2.36	0.45/0.16	-1.76/-2.09	-1.51/-2.17	-4.5/-3.74	-3.49/-5.27	-4.16/-5.33	-5.68/-4.35	-2.74/-1.98	-2.61/-3.86	-2.29/-0.89	-0.68/0.16	1.01/1.25	-0.37/-1.9	-3.64/-5.88	-7.77/-5.89	-5.47/-4.48	0.43/2.59
Θ (52.5°)	-1.88/-5.05	-10.15/-15.29	-6.8/-8.5	-8.01/-7.43	-8.98/-6.03	-2.77/-0.34	-0.78/-0.76	0.73/-0.17	-1.06/-0.22	-1.21/-3.03	-4.2/-5.24	-4.92/-2.53	-1.77/-5.67	-9.05/-7.04	-3.22/-4.65	-9.02/-8.25	-5.67/-3.53	-2.38/-0.65	-0.64/-0.77	-2.58/-2.51	-4.64/-8.4	-8.49/-3.1	-4.85/-5.21	-2.79/-1.31
Θ (60°)	-4.86/-3.27	-5.1/-8.27	-4.23/-4.98	-0.61/-4.24	-9.04/-5.11	-1.1/2.47	1.24/-0.76	0.36/0.33	-0.08/-0.18	-0.78/-2.11	-2.98/-2.06	-1.66/-1.08	-1.08/-5.52	-4.59/-3.87	-3.8/-6.35	-11.08/-8.58	-6.28/-2	-3.63/-4.56	-5.86/-2.59	-1.23/1.08	-1.2/-8.58	-4.98/-0.48	-5.35/-6.11	-4.04/-4.29
Θ (67.5°)	-5.75/0.09	-0.3/-4.45	-1.74/-1.59	0.73/-1.46	-12.18/-9.88	-3.25/2.46	0.63/0.11	0.31/-1.68	0.81/-0.07	0.25/-2.93	-2.46/-2.26	-0.98/-2.08	-1.23/-3.94	-1.49/-1.19	-2.03/-4.74	-8.35/-5.4	-4.82/-4.71	-8.35/-7.15	-9.39/-1.3	1.02/2.09	-1.18/-3.97	-2.33/1.07	-6.69/-6.94	-5.07/-3.22
Θ (75°)	-2.07/1.23	1.34/-2.59	-1.29/0.07	1.07/-0.52	-10.22/-9.91	-4.9/0.46	-0/-0.13	-0.05/-2.77	1.66/1.06	0.34/-5.83	-3.1/-1.39	-2.99/-3.6	-0.73/-1.6	-1.06/0.38	-1.01/-2.84	-5.62/-1.69	-1.84/-5.14	-5.84/-4.3	-4.54/-0.19	2.66/3.04	-3.1/-2.4	-2.95/1.46	-4.27/-6.6	-4.91/-1.99
Θ (82.5°)	-0.3/0.87	0.58/-1.73	-1.56/0.84	0.5/-0.88	-6.04/-9.08	-7.76/-2.28	-1.79/-1.77	-1.53/-1.77	2/0.13	-1.26/-6.39	-2.03/-2	-4.07/-4.64	-2.48/-1.89	-0.96/-1.36	-2.05/-1.97	-3.84/0.59	-0.47/-4.58	-4.11/-2.9	-3.35/-0.88	3.13/3.56	-0.87/-0.99	-2.7/-0.51	-6.05/-6.01	-4.48/-1.66
Θ (90°)	-1.19/0.05	-1.11/-2.29	-3.49/0.05	-0.68/-2.94	-6.25/-7.54	-8.34/-3.33	-4.01/-2.89	-3.72/-3.1	1.4/-1.79	-2.7/-6.6	-3.82/-3.3	-5.49/-6.27	-3.28/-2.83	-1.13/-2.01	-1.54/-2.35	-2.32/0.4	-0.13/-4.45	-4.97/-5.22	-5.54/-4.58	1.01/2.27	-0.82/0.41	-1.88/-3	-7.55/-6.89	-5.47/-1.83
Θ (97.5°)	-3.44/-2.26	-3.89/-3.4	-4.01/-0.8	-1.77/-3.68	-6.13/-9.99	-8.77/-4.87	-5.04/-4.43	-5.13/-2.74	0.66/-3.83	-2.76/-6.7	-6.5/-3.59	-5.73/-8.02	-4.12/-2.87	-1.21/-3.21	-2.31/-3.06	-2.39/-0.3	-1.55/-6.32	-9.25/-12.57	-10.99/-8.06	-0.95/-0.13	-1.62/-1.61	-1.81/-6.99	-9.01/-7.18	-8.25/-3.52
Θ (105°)	-6.21/-6.21	-8.03/-5.85	-2.56/-1.99	-3.77/-7.98	-6.65/-11.17	-12.18/-6.26	-6.12/-8.99	-6.8/-3.53	-1.43/-3.04	-4.57/-6.07	-6.04/-5.77	-6.9/-9.87	-6.64/-6.14	-4.21/-5.41	-3.41/-4.17	-3.62/-2.17	-3.77/-7.41	-15.4/-12.09	-10.66/-9.56	-1.59/-2.51	-2.37/-4.55	-4.59/-8.13	-9.57/-6.94	-8.9/-4.74
Θ (112.5°)	-9.06/-7.54	-7.13/-4.48	-2.7/-3.76	-5.55/-10.51	-9.34/-12.89	-8.79/-4.67	-8.07/-9.26	-5.79/-3.78	-6.28/-6.3	-7.34/-7.85	-15.28/-8.14	-7.2/-11.81	-11.86/-5.94	-1.82/-4.59	-6.11/-3.66	-5.21/-3.93	-5.66/-9.17	-15.27/-9.95	-6.6/-6.52	-3.23/-3.63	-3.35/-4.12	-8.3/-12.23	-9.21/-8.7	-9.56/-4.7
Θ (120°)	-8.45/-13.81	-6.99/-5.24	-5.74/-9.6	-9.8/-8.98	-9.88/-15.35	-11.69/-8.53	-9.57/-13.55	-7.3/-7.6	-7.13/-7.5	-6.48/-10.7	-6.91/-9.84	-8.6/-12.11	-13.34/-9.17	-3.75/-5.91	-6.54/-4.98	-7.2/-5.46	-8.14/-9.36	-12.66/-12.34	-7.71/-7.74	-6.2/-3.44	-6.68/-4.47	-8.28/-10.61	-8.6/-12.5	-9.58/-5.81
Θ (127.5°)	-9.03/-13.29	-5.72/-8.93	-7.6/-11.88	-9/-10.76	-14.78/-14.95	-9.01/-6.71	-10.74/-8.49	-9.38/-7.48	-9.54/-7.12	-7.39/-5.44	-8.88/-12.26	-11.08/-14.5	-13.79/-9.47	-5.96/-10.8	-7.98/-5.26	-7.17/-8.4	-9.72/-9.11	-10.62/-15.7	-11.3/-8.14	-7.72/-5.46	-8.61/-7.98	-14.37/-8.76	-7.12/-8.33	-11.93/-8
Θ (135°)	-7.27/-9.25	-9.21/-11.61	-10.69/-13.15	-10.27/-9.34	-14.4/-15.48	-11.05/-11.81	-10.67/-12.47	-12.19/-9.66	-9.64/-9.15	-7.01/-10.24	-15.45/-13.3	-10.6/-13.65	-10.28/-9.03	-7.72/-8.27	-12.77/-6.48	-8.95/-12.5	-14.9/-15.66	-13.89/-11.8	-13.47/-11.8	-8/-6.97	-10.46/-10.47	-7.66/-13.64	-9.28/-10.25	-8.89/-7.13
Θ (142.5°)	-8.12/-15.89	-10.22/-12.34	-14.7/-12.73	-9.22/-12.44	-15.43/-12.94	-7.96/-12.52	-14.74/-12.42	-12.63/-12.54	-7.11/-8.79	-9.13/-10.45	-11.81/-12.02	-12.19/-12.67	-13.15/-10.99	-11.75/-11.13	-14.41/-10.44	-13.31/-13.28	-11.8/-15.12	-14.16/-9.5	-11.58/-9.37	-7.22/-8.85	-10.61/-8.92	-8.57/-13.95	-12.22/-8	-13.48/-8.02
Θ (150°)	-8.72/-12.46	-11.34/-14.39	-13.03/-10.92	-15.55/-15.15	-15.25/-7.48	-7.95/-13.28	-15.16/-15.25	-12.35/-12.22	-10.69/-9.88	-12.69/-13.94	-9.56/-9.41	-12.69/-13.36	-10.92/-10.85	-11.75/-14.3	-14.02/-14.38	-13.68/-11.72	-12.13/-11.16	-10.93/-11.68	-12.2/-11.33	-11.71/-12.96	-15.15/-11.81	-10.48/-11.21	-13.89/-15.22	-10.71/-8.84
Θ (157.5°)	-12.38/-14.74	-13.6/-11.12	-13.8/-15.76	-15.33/-14.53	-8.91/-8.39	-8.8/-11.92	-15.47/-15.13	-14.81/-12.23	-12.93/-14.45	-12.86/-12.93	-15.32/-14.81	-11.82/-10.34	-13.91/-11.89	-12.66/-13.27	-13.74/-13.86	-14.39/-13.56	-12.53/-12.81	-15.14/-15.64	-13.46/-14.39	-14.06/-13.69	-15.37/-15.66	-15.37/-15.5	-13.01/-14.14	-13.51/-12.4
Θ (165°)	-15.15/-16	-15.01/-15.66	-15.92/-12.47	-9.78/-9.12	-9.04/-8.52	-10.58/-14.99	-15.65/-15.12	-14.9/-15.55	-13.78/-14.37	-15.94/-15.73	-14.91/-14.49	-14.11/-13.58	-13.62/-15.57	-15.51/-15.48	-15.32/-14.93	-14.92/-15.51	-15.56/-15.19	-14.98/-15.11	-14.37/-15.45	-14.22/-13.76	-12.76/-12.86	-14.39/-14.73	-15.17/-12.27	-11.72/-13.06
Θ (172.5°)	-13.13/-14.05	-15.79/-15.96	-15.42/-13.3	-11.04/-9.88	-10.5/-13.64	-14.86/-15.58	-15.17/-15.39	-15.01/-14.64	-15.49/-14.72	-13.87/-13.53	-14.07/-13.8	-13.56/-13.12	-12.62/-12.35	-12.08/-11.9	-11.89/-12.44	-12.22/-12.55	-12.19/-12.36	-12.79/-14.14	-15.16/-15.65	-15.08/-14	-14.3/-13.48	-12.78/-13.58	-14.22/-13.96	-13.22/-13.47
Θ (180°)	-12.94/-12.46	-12.03/-12.5	-13.29/-14.11	-14.66/-14.67	-15.5/-15.65	-14.5/-15.33	-14.55/-15.89	-16.06/-16.13	-15.83/-15.66	-15.22/-14.83	-14.95/-15.6	-14.38/-15.08	-15.41/-15.5	-15.52/-15.94	-15.22/-15.86	-15.19/-14.88	-14.86/-14.67	-15.67/-15.52	-15.47/-15.5	-15.19/-15.97	-14.88/-15.25	-15.28/-14.66	-13.8/-13.97	-14.2/-13.84