





# Radiated Composite Gain Data\_Radio 4\_6GHz\_4TX

# Appendix F

Theta	2.771.5	-0.62/-0.62	0.360.75	0.630.77	0.430.13	-0.891.86	-2.98/-3.55	-2.72/-2.11	-0.71/-0.67	0.811.41	1.310.77	1.61.92	1.622.04	2.151.48	1.121.13	1.131.47	1.591.6	1.411.76	2.623.31	3.814.23	3.762.99	2.642.26	2.562.91	3.182.53
Theta(30°)	3.36/2.12	0.74/1.53	2.351.76	0.29/-0.63	-1.2/-1.26	-2.81/-2.37	-2.18/-1.72	-1.28/-0.4	0.520.46	0.990.61	0.04/-0.86	1.222.54	2.373.2	3.52/2.79	2.37/1.62	1.23/1.8	2.57/2.81	1.81/1.81	2.77/3.41	3.34/2.61	1.49/-0.28	0.340.95	2.19/2.46	3.97/3.68
Theta(37.5°)	3.06/1.31	0.75/2.01	3.19/2.08	-0.64/-1.42	-0.81/-1.89	-2.23/-2.07	0.040.65	0.77/-0.96	0.820.09	2.52/2.77	0.2/-0.3	1.52/1.6	2.32/2.42	2.87/1.47	1.72/1.71	0.49/1.05	2.34/2.92	1.01/0.66	2.04/3.1	3.35/3.3	4.15/4.24	2.52/5.2	2.83/7.6	3.88/3.75
Theta(45°)	3.12/0.6	1.38/0.81	1.74/0.93	-1.14/-1.44	0.73/0.78	0.27/1.77	1.93/2.57	1.76/0.84	1.12/1.29	2.39/2.48	1.28/-0.48	-0.35/1.75	2.29/1.57	1.53/1.49	1.55/3.14	1.96/0.91	2.29/2.43	0.55/1.85	3.22/3.03	3.53/4.41	4.54/4.76	2.97/3.41	3.48/4.99	4.79/4.23
Theta(52.5°)	3.53/1.82	1.25/1.69	2.01/1.23	-0.39/-1.26	2.46/2.75	2.06/2.3	3.52/8.9	2.61/3.7	3.73/3.35	3.08/2.22	1.86/2.17	2.21/2.76	3.76/2.81	1.69/3.05	3.01/2.7	1.39/0.48	2.46/2.74	1.75/3.54	2.86/1.83	2.64/3.75	3.37/3.44	3.63/4.1	3.73/5.42	6.02/5.01
Theta(60°)	1.59/-0.71	0.23/3.31	4.12/3.31	2.03/6.38	3.18/3.28	2.36/3.37	4.17/2.26	3.21/3.97	4.21/3.56	2.81/2.71	2.84/3.94	3.74/3.24	4.91/4.51	2.82/3.37	3.09/2.56	0.94/0.67	2.11/2.39	1.85/1.59	2.27/2.78	3.87/3.23	3.58/3.49	2.59/2.75	3.72/2.73	
Theta(67.5°)	0.48/-0.79	2.55/4.12	4.85/3.21	3.67/4.35	4.12/2.39	2.56/3.02	3.96/2.57	3.58/3.48	3.21/2.11	3.04/2.3	3.24/5.41	4.14/3.68	5.22/5.04	3.85/3.93	2.71/2.9	2.55/1.49	2.24/1.6	-0.69/-1.28	-1.09/-0.79	-0.31/-1.56	1.35/-0.81	1.07/1.95	-0.85/0.14	-0.44/0.46
Theta(75°)	2.89/0.7	3.78/4.33	4.23/1.73	3.36/3.92	3.32/2.53	0.66/2.81	3.22/0.77	1.73/3.57	2.74/1.78	3.49/2.26	2.12/4.68	4.55/2.53	4.98/4.35	4.1/3.55	3.12/0.3	3.65/2.75	2.61/1.6	1.15/0.07	0.23/-0.86	-0.96/-3.14	-2.31/-0.88	1.59/2.92	1.43/0.76	-0.05/3
Theta(82.5°)	3.18/0.87	2.75/3.89	3.01/0.52	2.99/3.08	1.54/0.35	0.81/2.63	2.36/0.49	1.83/3.36	1.26/1.41	2.95/1.88	1.83/3.74	3.51/4.7	4.16/3.88	3.16/2.82	2.71/1.75	2.73/0.1	2.50/1.7	1.39/0.66	2.43/1.36	-0.41/3.1	-0.52/0.6	1.81/2.65	2.22/3.02	0.39/3.38
Theta(90°)	2.14/-0.19	0.64/3.08	2.04/0.62	2.34/1.49	0.61/-1.47	0.04/0.14	-0.48/-1.86	1.33/2.55	1.29/1.09	1.82/2.29	0.69/1.93	2.89/0.02	1.63/2.03	2.53/1.52	1.81/1.76	1.33/1.95	0.8/-0.19	2.03/1.9	2.31/2.6	0.72/0.95	0.86/0.97	-0.11/1.67	0.72/-1.48	-0.48/1.66
Theta(97.5°)	1.15/-2.2	-0.39/-1.47	0.96/0.28	1.48/0.33	-1.23/-3.07	-1.73/-1.14	-3.11/-3.34	0.51/1.5	0.70/2.22	1.54/0.8	0.26/0.88	1.81/-1.11	0.32/0.47	0.16/0.12	0.63/0.66	-0.91/0.63	-0.4/-1.57	10.42	0.48/-0.06	-1.14/-0.01	-0.42/-1.17	-1.0/-0.62	-1.75/-2.86	-2.52/-0.44
Theta(105°)	0.25/4.02	-0.35/-0.36	0.15/-0.2	-0.3/-2.2	-4.08/-3.88	-2.27/-1.9	-4.03/-3.68	-0.51/-0.39	0.62/-1.42	-0.02/0.45	-0.62/0.42	-0.87/-1.53	-1.47/-1.16	-1.48/-1.78	-0.86/-0.41	-2.2/-2.09	-2.15/-2.13	-2.46/-2.14	-1.8/-2.6	-3.62/-3.03	-2.78/-5.5	-3.18/-3.53	-3.53/-5.45	-3.91/-4.6
Theta(112.5°)	-1.74/-3.64	-1.23/-1.43	-2.02/-0.9	-2.98/-5.01	-5.01/-3.26	-6.31/-3.87	-4.37/-6.28	-3.53/0.13	-2.55/-2.01	-0.4/-1.46	-1.44/-0.99	-0.78/-2.17	-1.84/-2.5	-3.12/-5.21	-3.85/-3.56	-2.82/-2.57	-3.11/4.11	-4.81/-4.7	-2.87/-3.72	-4.33/-9.24	-6.19/-6.03	4.41/-4.73	-5.12/-7.12	-3.89/-1.77
Theta(120°)	-2.41/-5.07	-2.5/-4.32	-4.87/-3.98	-4.51/-6.33	-4.53/-7.95	-4.17/-5.69	-4.75/-6.97	-4.17/-5.69	-2.25/-1.9	-1.74/-3.22	-2.4/-2.47	-3.12/-2.64	-2.04/-3.48	-5.34/-5.29	-3.54/-4.48	-6.84/-6.61	-3.89/-3.71	-3.83/-7.73	-5.68/-8.47	-7.9/-3.29	-5/-6.31	-3.71/-2.4		
Theta(127.5°)	-5.36/-6.4	-4.79/-7.39	-5.99/-6.53	-7.54/-6.13	-7.58/-7.17	-6.74/-9.7	-6.04/-6.11	-5.85/-3.79	-3.76/-3.66	-4.06/-4.29	4.16/-4.14	-3.69/-6.05	-5.71/-3.33	-5.73/-7.45	-7.25/-6.66	-2.47/-4.49	-10.34/-9.52	-5.17/-7.08	-8.07/-5.55	-9.58/-8.23	-7.5/-3.56	-8.3/-7.02	-3.26/-4.88	
Theta(135°)	-7.14/-6.72	-8.04/-5.45	-6.52/-6.63	-7.95/-5.77	-7.76/-7.73	-6.23/-8.18	-6.48/-7.95	-4.34/-4.9	-5.43/-4.72	-6.81/-5.11	-6.43/-4.38	-4.97/-7.52	-7.34/-7.27	-5.86/-7.39	-7.47/-6.6	-8.15/-6.52	-4.99/-6.42	-7.4/-9.26	-6.08/-9.68	-9.51/-9.15	-12.08/-4.99	-8.43/-5.28	-6.86/-8.54	-4.27/-4.96
Theta(142.5°)	-9.15/-8.1	-7.52/-6.68	-7.67/-6.72	-9.08/-8.08	-9.23/-8.22	-8.74/-8.71	-6.41/-5.44	-6.02/-5.13	-6.13/-5.79	-7.18/-8.55	-7.19/-6.58	-6.13/-7.81	-7.73/-6.95	-5.99/-8.94	-10.67/-13.7	-7.47/-6.16	-8.32/-10.21	-9.21/-10.56	-6.01/-9.56	-7.81/-9.34	-8.77/-9.1	-7.8/-8.83	-9.17/-9.04	-8.13/-5.7
Theta(150°)	-8.15/-9.45	-8.49/-6.84	-8.76/-9.27	-8.66/-9.15	-10.73/-6.42	-7.18/-7.49	-8.23/-8.65	-7.78/-6.64	-6.16/-6.19	-7.12/-6.34	-7.41/-7.56	-6.89/-6.48	-7.41/-7.81	-5.55/-8.77	-11.59/-7.85	-8.53/-9.08	-9.37/-9.81	-8.27/-5.4	-9.55/-7.96	-9.95/-10.1	-12.66/-12.44	-10.91/-11.25	-10.29/-9.9	-9.27/-9.27
Theta(157.5°)	-8/-8.53	-8.79/-8.32	-10.11/-11.39	-12.12/-11.88	-11.66/-10.41	-10.79/-10.76	-10.58/-10.68	-9.26/-9.91	-7.84/-8.43	-7.18/-9.2	-7.85/-6.7	-6.78/-8.5	-10.07/-8.92	-8.25/-9.12	-8.4/-8.24	-10.47/-9.73	-10.14/-10.09	-11.21/-12.59	-12.62/-11.36	-12.14/-10.74	-11.86/-12.1	-12.47/-12.52	-11.03/-11.3	-11.66/-10.46
Theta(165°)	-10.98/-9.44	-8.78/-8.54	-8.76/-9.24	-9.06/-9.76	-9.63/-10.02	-10.66/-10.76	-9.17/-9.48	-9.67/-8.54	-9.54/-9.54	-10.51/-10.05	-9.44/-9.61	-10.66/-11.72	-12.19/-9.76	-7.93/-9.19	-9.03/-8.1	-10.58/-11.75	-10.59/-11.8	-12.09/-12.39	-11.35/-10.49	-10.93/-10.45	-9.99/-10.32	-8.23/-9.64	-10.15/-10.4	-10.36/-10.33
Theta(172.5°)	-9.08/-9.74	-9.53/-9.28	-11.12/-11.05	-11.89/-11.41	-10.48/-10.3	-9.84/-10.62	-10.98/-11.12	-12.37/-11.92	-11.15/-10.42	-9.13/-9.03	-10.07/-10.27	-12.07/-12.63	-12.94/-11.62	-11.77/-12.49	-10.78/-9.27	-8.62/-10.08	-11.43/-12.59	-11.54/-10.11	-9.68/-9.38	-8.66/-8.94	-8.93/-8.67	-8.53/-8.66	-8.73/-8.47	
Theta(180°)	-8.62/-7.8	-8.56/-8.82	-8.9/-9.16	-9.65/-10.04	-10.52/-12.14	-12.39/-11.7	-11.67/-11.86	-10.71/-9.01	-8.71/-9.15	-10.57/-11.47	-11.54/-11.94	-11.46/-11.96	-11.26/-10.44	-9.16/-10.78	-10.84/-10.97	-10.57/-10.78	-11.36/-12.71	-11.57/-11.2	-9.61/-9.41	-8.47/-8.26	-7.66/-9.01	-7.5/-7.28	-7.95/-8.03	
Freq(Pol)	6.995GPol	Theta	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
DG(dB)	Phi(7.5°)	Phi(15°)	Phi(30°)	Phi(45°)	Phi(60°)	Phi(75°)	Phi(90°)	Phi(105°)	Phi(120°)	Phi(135°)	Phi(150°)	Phi(165°)	Phi(180°)	Phi(195°)	Phi(210°)	Phi(225°)	Phi(240°)	Phi(255°)	Phi(270°)	Phi(285°)	Phi(300°)	Phi(315°)	Phi(330°)	Phi(345°)
Theta(0°)	-1.51/-1.31	-0.21/0.36	0.38/0.61	0.87/0.85	0.87/0.8	0.54/0.53	-0.02/-0.22	-0.73/-1.55	-2.34/-2.86	-3.45/-3.64	-2.55/-1.36	-1.07/-0.52	0.27/0.98	1.63/2.16	2.14/1.98	1.89/1.92	1.30/4.6	-0.05/0.11	-0.4/-1.15	-1.24/-1.15	-1.86/-2.58	-2.44/-2.65	-2.76/-1.88	-2.26/-1.67
Theta(7.5°)	0.11/0.8	1.71/2.19	1.89/1.88	1.53/0.94	0.55/-0.31	-1.5/-2.19	-2.43/-2.16	-2.14/-2.46	-2.38/-2.09	-1.59/-2.01	-2.53/-1.31	-1.29/-1.5	-0.75/-0.42	0.31/0.82	0.97/1.1	1.27/1.52	1.50/8.2	0.85/0.68	-0.39/-1.08	-1.65/-2.42	-2.86/-3.63	-3.82/-4.38	-3.23/-4.28	-1.09/-0.34
Theta(15°)	-1.94/-0.75	0.09/0.44	0.33/-0.24	-0.12/-0.48	-0.33/-0.42	-0.71/-1.45	-1.48/-1.99	-2.85/-2.95	-1.21/-1.26	-1.15/0.9	-1.61/-1.72	-1.48/-1.5	-1.26/-0.62	0.19/0.63	0.99/1.46	1.82/1.67	1.73/1.09	0.20/2.4	-0.87/-1.37	-2.59/-4.31	-5.13/-6.81	-6.35/-5.12	-4.5/-4.23	-3.73/-3.68
Theta(22.5°)	-2.42/-1.08	-0.19/0.14	0.53/0.95	0.72/0.06	-0.47/-0.95	-1.37/-2.56	-2.82/-3.16	-2.55/-2.96	-2.02/-0.93	-0.62/0.23	0.03/-0.27	-0.2/-0.62	-0.57/0.08	0.04/0.26	0.12/-0.7	-0.91/-1.18	-0.61/-0.39	-0.5/-0.51	-0.05/-0.1	-0.68/-1.9	-3.62/-6.41	-7.64/-6.48	-5.66/-4.32	-3.29/-3.08
Theta(30°)	-2.77/-0.61	1.02/0.95	0.39/0.05	0.08/0.98	1.89/2.12	1.49/-0.93	-2.62/-2.47	-1.71/-0.46	0.46/-0.42	-1.08/-0.67	0.71/0.87	0.41/0.4	-1.13/-2.43	-2.2/-2.5	-0.60/5.8	0.42/0.79	1.13/0.36	-0.72/-1.67	-1.08/-1.05	-1.39/-1.7	-2.33/-1.74	-1.41/-1.74	-2.19/-2.99	
Theta(37.5°)	-0.35/0.99	1.51/0.16	-1.19/-2	-1.14/0.89	2.44/2.87	1.92/0.49	-0.79/-1.68	-0.58/-0.37	-0.55/0.66	0.3/0.7	1.69/1.45	0.8/-0.31	0.18/1.94	2.04/1.4	0.47/1.29	0.42/0.96	0.59/-0.65	-0.97/0.58	-0.94/-1.17	-1.18/-0.28	-0.76/-1.39	-1.28/-1.58	-1.02/-0.68	-1.31/-1.51
Theta(45°)	0.78/1.23	1.46/0.81	0.02/-0.3	0.65/1.04	1.54/2.4	1.68/1.01	1.33/1.31	1.06/1.94	1.04/1.83	1.71/1.79	1.08/0.58	0.43/0.49	-0.59/0.36	1.84/2.68	2.49/2.04	0.65/2.18	1.59/1.08	0.75/0.33	0.02/0.23	0.36/0.24	-0.73/-2.2	-2.5/-0.44	0.05/0.49	0.76/0.98
Theta(52.5°)	3.25/2.97	1.69/1.5	1.33/1.16	2.84/2.92	1.83/2.27	2.34/2.04	2.64/3.12	2.38/2.69	2.37/2.27	2.49/2.26	1.10/0.99	1.73/1.44	0.88/1.52	0.83/2.75	3.42/2.74	1.48/1.57	3.05/2.73	1.85/1.81	2.34/1.79	1.99/1.76	0.24/0.88	0.8/-0.91	-2.32/0.64	2.55/2.29
Theta(60°)	3.97/3.41	1.97/2.04	2.09/2.94	4.4/3	2.23/2.22	2.53/2.44	2.39/1.19	2.22/2.47	2.51/2.89	2.29/2.9	2.37/2.53	2.11/1.02	-0.57/-0.48	1.31/1.11	3.47/2.96	2.08/0.62	1.88/2.51	1.68/1.44	2.11/4.7	2.37/2.1	0.07/1.92	2.07/1.02	-1.43/1.23	2.44/2.26
Theta(67.5°)	4.27/2.79	1.99/1.33	2.99/4.26	5.24/4.6	3.16/2.28	2.21/2.6	0.56/0.37	1.95/2.06	1.95/1.34	1.95/2														







# Radiated Composite Gain Data\_Radio 4\_6GHz\_4TX

# Appendix F

Theta	0.09-1.38	-0.54-1.92	3.99-2.19	-0.03-2.37	2.78-1.75	2.78-2.47	3.35-3.57	1.21-2.25	2.79-3.66	3.88-2.76	1.80-5.2	-1.42-2.22	2.31-1.27	0.95-1.19	1.41-1.15	-2.22-1.03	1.31-1.42	1.27-2.75	-1.13-1.77	-3.91-9.45	-14.12-5.06	-1.17-2.77	-0.68-1.94	-1.84-0.91																								
Phi	2.60-66	-0.11-58	4.1-2.29	-2.11-86	2.31-1.48	1.9-1.2	3.02-3.62	0.95-1.66	3.42-84	3.21-13	0.36-7.9	0.82-1.18	3.16-1.3	-0.56-4.3	0.82-1.7	-3.59-2.53	0.09-6.3	-0.38-1.92	1.17-2.18	0.54-8.87	-9.62-0.27	0.83-1.39	-0.95-3.39	0.54-2.02																								
Theta	82(5°)	2.70-3.31	-0.57-0.24	2.71-1.64	-4.39-0.23	1.41-0.48	1.27-1.81	2.82-3.59	0.31-1.71	3.41-11	-0.52-0.82	3.37-3.39	0.82-1.18	2.26-0.14	-0.58-1.03	-0.34-0.41	-6.12-1.48	-1.81-1.19	-1.94-0.47	1.72-3.71	1.85-3.47	-4.94-1.02	1.30-0.3	-1.74-5.09	1.39-1.86																							
Theta	90(°)	0.89-0.7	-3.11-1.58	0.76-0.47	-5.96-1.26	0.4-2.6	0.03-1.46	-0.33-2.28	-0.65-0.61	2.6-1.12	-3.57-1.83	1.14-2.87	0.61-0.5	1.82-0.46	-1.47-3.52	-0.29-1.12	-8.21-3.66	-4.02-2.77	-4.34-2.67	0.83-1.98	0.38-2.85	-3.17-0.99	0.41-2.88	-4.24-5.72	-0.16-0.6																							
Theta	97(5°)	-1.4-2.89	-5.57-3.48	-1.07-3.75	-8.81-2.12	-2.89-7.17	-2.57-4.68	-2.06-0.1	-2.91-0.35	1.63-3.32	-5.82-2.54	-0.13-1.28	-0.66-1.68	0.82-5.03	-1.79-2.59	-9.98-4.5	-4.36-6.13	-8.04-5.07	-1.67-1.12	-3.19-4.24	-2.93-4.38	-2.56-1.82	-6.22-7.18	-2.32-1.39																								
Theta	105(°)	-2.83-4.21	-9.4-8.3	-4.03-8.56	-10.65-4.68	-5.21-9.56	-3.92-8.03	-3.53-1.41	-4.08-3.43	-4.07-4.05	-7.89-6.3	-2.34-0.97	-2.74-3.85	-1.86-3.64	-4.58-7.43	-4.04-4.67	-4.02-9.35	-6.07-6.23	-9.52-8.34	-6.22-5.06	-7.32-6.54	-5.61-9.46	-7.32-10.63	-7.33-11.47	-6.07-3.39																							
Theta	112(5°)	-3.89-10.54	-8.62-8.45	-6.88-13.92	-10.71-6.97	-9.75-10.5	-7.38-10.8	-4.48-4.66	-7.28-3.88	-2.67-5.19	-10.28-6.34	-3.35-2.96	-5.77-5.31	-3.33-6.08	-6.67-7.48	-7.87-6.08	-8.62-6.64	-7.33-7.42	-12.99-11.42	-6.11-8.15	-14.12-14.55	-9.43-8.51	-10.48-8.68	-8.66-16.9	-5.61-5.39																							
Theta	120(°)	-8.66-13.57	-14.48-9.66	-13.2-18.63	-11.74-12.98	-14.5-13.82	-8.3-9.04	-7.26-5.96	-8.78-7.56	-4.37-5.86	-10.5-9.31	-5.37-5.43	-6.09-8.51	-4.47-5.92	-10.03-6.7	-10.39-9.23	-6.46-18.55	-10.04-7.69	-13.2-13.85	-7.42-7.07	-9.33-13.23	-7.4-17.82	-11.41-11.21	-18.71-15.21	-6.28-16.87																							
Theta	127(5°)	-11.37-18.13	-18.42-15.37	-18.54-19.15	-13.26-14.24	-19.02-12.29	-16.55-10.46	-8.82-10.04	-8.49-7.67	-8.23-9.42	-10.44-10.87	-8.17-6.84	-9.36-8.98	-6.65-7.87	-9.9-12.15	-8.63-10.19	-12.17-12.04	-7.88-13.37	-16.39-18.16	-16.39-8.93	-8.62-18.69	-11.86-12.66	-13.71-18.13	-14.21-17.81	-9.15-9.46																							
Theta	135(°)	-18.31-16.32	-18.76-14.58	-17.88-18	-15.19-14.77	-16.96-11	-9.54-9.32	-9.24-9.99	-13.36-13.66	-12.76-13.08	-10.39-10.14	-11.63-12.62	-11.26-12.75	-9.04-7.6	-10.89-12.25	-13.77-13.32	-11.28-13.12	-11.52-18.81	-18.44-18.1	-13.47-18.25	-10.05-18.87	-17.51-14.06	-18.31-18.32	-10.44-11.52	-8.85-9.41																							
Theta	142(5°)	-16.03-15.48	-17.93-18.59	-16.07-14.43	-14.2-18.01	-15.99-13.82	-11.79-13.37	-11.08-15.77	-16.76-17.77	-17.71-15.33	-11.21-10.75	-13.61-13.39	-14.51-16	-12.33-13.34	-14.25-13.1	-11.29-12.43	-12.92-12.77	-13.62-10.06	-16.27-14.49	-18.62-12.17	-12.99-18.54	-13.96-12.89	-17.86-17.62	-18.33-16.12	-14.03-16.87																							
Theta	150(°)	-18.11-16.2	-14.6-19.85	-17.48-17.64	-17.86-18.99	-16.29-14.65	-14.68-13.7	-14.15-14.75	-18.24-18.46	-16.78-14.62	-15.72-11.95	-15.24-12.72	-15.72-11.95	-12.39-15.52	-14.35-14.52	-13.61-11.9	-14.22-13.8	-13.81-16.37	-17.61-18.14	-18.62-18.46	-19.21-17.34	-18.07-18.12	-17.71-19.17	-11.52-14.33																								
Theta	157(5°)	-18.49-18.71	-19.55-18.87	-18.23-18.48	-16-15.76	-19.21-17.32	-15.18-14.39	-16.19-17.79	-19.16-16.54	-15.64-17.16	-17.34-17.35	-17.17-18.27	-16.94-13.98	-15.63-14.6	-13.88-16.39	-14.68-18.71	-19.05-16.8	-15.42-17.05	-17.56-18.22	-19.04-17.41	-15.28-12.95	-18.62-19.02	-18.62-19.31	-18.34-18.98	-15-15.83																							
Theta	165(°)	-17.54-18.98	-19.34-17.85	-18.98-17.62	-18.64-18.77	-18.45-18.04	-17.18-18.16	-18.44-18.65	-19.17-18.11	-18.07-17.84	-16.47-17.89	-18.58-16.27	-16.73-18.31	-17.75-17.3	-18.62-17.89	-18.56-18.37	-18.73-17.91	-18.35-17.72	-19.04-18.76	-18.32-19.36	-17.3-18.24	-17.51-17.83	-17.68-17.46	-18.03-19.12	-18.42-18.67																							
Theta	172(5°)	-18.36-17.83	-18.46-17.37	-17.72-16.84	-18.18-18.67	-19.09-17.11	-18.71-18.69	-19.13-17.83	-18.9-17.8	-18.89-18.03	-18.35-17.44	-18.72-18.68	-18.89-18.94	-18.71-19.22	-18.92-16.82	-15.57-19.19	-15.75-14.92	-18.49-18.98	-18.42-18.37	-17.72-17.74	-17.38-17.16	-19.33-18.03	-19.17-18.46	-19.07-18.79																								
Theta	180(°)	-18.4-19.03	-18.15-18.64	-18.01-14.96	-14.05-14.57	-14.02-13.18	-13.76-16.26	-16.89-16.99	-17.81-18.33	-17.42-17.75	-18.91-18.77	-18.32-18.71	-18-17.85	-18.15-17.75	-18.14-16.67	-15.93-17.2	-17.33-16.97	-18.85-18.42	-14.94-14.2	-15.69-17.14	-16.52-18.56	-17.65-18.22	-19.14-19.15	-18.83-18.41	-17.94-17.73																							
Theta	187.5°	6.175°Pol	ThetaAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																							
Theta	Gain	Phi(7.5°)	Phi(15°)	Phi(22.5°)	Phi(30°)	Phi(37.5°)	Phi(45°)	Phi(52.5°)	Phi(60°)	Phi(67.5°)	Phi(75°)	Phi(82.5°)	Phi(90°)	Phi(97.5°)	Phi(105°)	Phi(112.5°)	Phi(120°)	Phi(127.5°)	Phi(135°)	Phi(142.5°)	Phi(150°)	Phi(157.5°)	Phi(165°)	Phi(172.5°)	Phi(180°)	Phi(187.5°)	Phi(195°)	Phi(202.5°)	Phi(210°)	Phi(217.5°)	Phi(225°)	Phi(232.5°)	Phi(240°)	Phi(247.5°)	Phi(255°)	Phi(262.5°)	Phi(270°)	Phi(277.5°)	Phi(285°)	Phi(292.5°)	Phi(300°)	Phi(307.5°)	Phi(315°)	Phi(322.5°)	Phi(330°)	Phi(337.5°)	Phi(345°)	Phi(352.5°)
Theta	0(°)	-6.77-4.99	-3.7-3.31	-3.25-3.15	-3.11-3.29	-3.33-3.97	-5.29-6.91	-8.67-11.01	-12.44-14.78	-18.04-17.11	-14.98-12.92	-10.38-8.54	-7.53-6.96	-6.34-6.57	-6.52-5.45	-4.64-4.5	4.43-3.96	-4.03-5.1	-6.39-6.64	-6.45-6.96	-8.71-11.46	-13.86-16.77	-18.69-18.77	-14.18-11.75	-10.74-7.86																							
Theta	7(5°)	-11.72-10.6	-9.59-8.48	-8.05-6.88	-6.74-7.1	-3.95-3.72	-4.35-5.51	-7.22-7.61	-8.06-10.07	-14.42-17.93	-18.15-17.97	-13.63-10.34	-7.65-6.04	-5.39-5.44	-3.83-3.31	-3.25-3.46	-3.61-4.18	-5.38-6.83	-8.74-10.81	-11.71-12.38	-17.62-17.69	-15.05-14.51	-12.58-12.45	-10.32-10.49	-12.96-12.14																							
Theta	15(°)	-9.11-9.48	-11.44-11.46	-10.53-9.58	-8.37-7.3	-6.79-6.13	-6.99-8.88	-10.82-12.91	-18.67-19.39	-18.71-17.45	-16.57-16.94	-18.33-19.16	-17.72-17.46	-14.36-13.26	-17.59-11.94	-17.72-6.62	-5.07-5.15	-6.02-7.31	-8.89-10.52	-12.04-16.11	-18.46-15.83	-12.62-12.97	-13.98-12.49	-11.66-12.58	-10.16-10.38																							
Theta	22(5°)	-8.17-8.72	-15.51-14.47	-10.72-13.56	-12.57-8.46	-6.97-7.04	-9.33-15.12	-18.96-14.73	-11.54-12.31	-15.67-18.18	-19.02-12.92	-10.59-10.57	-9.88-8.53	-8.39-9.04	-11.49-14.55	-10.38-6.11	4.22-3.85	-4.52-6.21	-7.56-8.86	-11.15-17.38	-17.64-18.26	-18.58-18	-18.71-14.5	-9.44-9.96	-9.8-11.21																							
Theta	30(°)	-8.27-8.35	-14.67-17.85	-13.52-15.01	-13.45-15.89	-13.47-15.77	-17.18-13.66	-16.53-13.91	-10.45-10.55	-16.22-17.12	-17.92-13.42	-12.09-11.71	-9.8-3.98	-10.16-10.2	-9.56-9.43	-9.37-9.18	-5.09-3.94	-5.23-7.69	-9.09-18.74	-17.42-14.72	-13.32-15.24	-15.13-9.04	-11.61-11.42	-8.56-8.29	-8.27-9.57																							
Theta	37(5°)	-7.06-8.09	-10.62-19.05	-18.5-18.83	-17.64-15.21	-19.73-12.64	-9.34-11.25	-13.83-13.12	-18.57-18.41	-18.23-15.69	-17.14-13.67	-15.24-18.24	-17.17-11.85	-14.71-14.72	-13.71-12.36	-8.35-9.09	-6.89-6.24	-10.13-9.26	-13.53-15.95	-13.51-11.45	-10.21-10.14	-9.4-11.65	-10.72-10.07	-19.13-13.95	-11.47-9.7																							
Theta	45(°)	-6.1-8.72	-16.15-17.43	-18.97-17.52	-18.78-17.71	-18.37-17.82	-12.08-9.14	-8.01-9.4	-12.04-13.58	-13.27-10.51	-10.12-9.83	-9.64-8.4	-9.69-16.06	-11.5-8.89	-7.58-15.22	-9.3-15.25	-5.61-4.09	-8.07-9.07	-8.82-14.4	-9.64-8.11	-8.74-11.74	-13.38-12.59	-14.1-13.39	-16.73-18.3	-12.25-8.05																							
Theta	52(5°)	-10.14-18.41	-17.82-17.57	-17.45-18.87	-18.88-13.26	-12.95-17.89	-19.13-12.11	-9.28-8.68	-10.43-14.19	-11.54-5.88	-5.66-7.75	-8.89-8.05	-10.28-18.88	-11.58-7.84	-7.44-11.81	-11.59-11.23	-6-6.1	-10.17-9.21	-9.69-10.74	-14.19-8.67	-7.1-9.33	-16.91-19.4	-13.41-9.08	-17.11-7.26	-12.22-9.05																							
Theta	60(°)	-18.83-14.36	-13.32-16.67	-18.97-14.11	-11.19-9.78	-14.36-13.45	-13.77-13.34	-14.08-17.89	-11.19-11.02	-18.97-13.71	-12.81-15.87	-12.13-12.49	-18.16-16.13	-14.48-9.88	-9.3-14.46	-10.85-15.19	-16.91-15.21	-17.5-12.57	-14.46-17.79	-17.71-18.03	-10.34-9.27	-16.12-14.72	-10.32-8.34	-7.94-10.85	-14.42-13.18																							
Theta	67(5°)	-15.62-9.14	-12.55-11.44	-18.9-12.42	-8.72-5.52	-12.02-17.06	-18.02-14.97	-14.18-17.9	-14.47-13.92	-16.4-9.02	-6.88-10.57	-11.38-13	-11.36-10.72	-15.48-12.26	-9.58-12.87	-13.1-10.9	-8.42-8.38	-13.19-9.72	-15.33-18.29	-18.23-14.7	-9.19-17	-19.22-16.32	-8.68-6.15	-4.95-8.7	-12.64-18.68																							
Theta	75(°)	-12.06-8.68	-12.55-10.13	-17.78-16.14	-8.63-7.68	-14.48-15.56	-14.62-14.52	-15.16-18.97	-11.11-11.36	-18.13-12.45	-10.4-12.57	-11.65-11.62	-16.92-14.5	-14.26-14.42	-7.49-15.41	-12.03-11.98	-11.21-11.08	-18.79-11.73	-13.66-18.58	-19.01-16.05	-8.95-7.74	-18.91-17.28	-8.32-5.11	-5.42-9.73	-15.11-13.45																							
Theta	82(5°)	-12.29-9.37	-12.66-10.97	-16.13-13.46	-11.19-9.78	-14.36-13.45	-13.77-13.34	-14.08-17.89	-11.19-11.02	-18.97-13.71	-12.81-15.87	-12.13-12.49	-18.16-16.13	-14.48-9.88	-9.3-14.46	-10.85-15.19	-16.91-15.21	-17.5-12.57	-14.46-17.79	-17.71-18.03	-10.34-9.27	-16.12-14.72	-10.32-8.34	-7.94-10.85	-14.42-13.18																							
Theta	90(°)	-11.13-12.74	-15.51-11.89	-17.37-16.35																																												



# Radiated Composite Gain Data\_Radio 4\_6GHz\_4TX

# Appendix F

Theta (112.5°)	-5.31/-11.41	-8.36/-6.09	-14.07/-9.93	-6.4/-10.97	-11.42/9.14	-13.88/-7.97	-8.1/-7.9	-3.58/-2.81	-7.31/6.12	-7.96/8.17	-8.1/5.75	-5.17/7.32	-5.43/-3.42	-6.13/-7.1	-5.85/-7.86	-5.64/-7.99	-6.78/-6.74	-8.44/-8.64	-5.42/-5.96	-14.58/-13.22	-12.34/-6.71	-9.29/-9.02	-10.24/-13.04	-8.08/-6.53
Theta (120°)	-6.71/-15.11	-9.02/-9.79	-18.53/-9.45	-7.6/-14.99	-10.83/-14.05	-9.8/-10.78	-12.44/-8.84	-3.48/-4.77	-6.29/-9.65	-8.26/-10.75	-9.46/-8.88	-6.49/-8.55	-8.52/-5.11	-6.14/-9.14	-7.11/-8.98	-6.95/-12	-6.43/-6.82	-14.77/-13.14	-7.84/-4.6	-8.42/-15.27	-7.58/-14.51	-9.54/-9.7	-14.11/-17.73	-7.26/-6.34
Theta (127.5°)	-11.28/-18.64	-10.93/-18.89	-17.99/-10.5	-15.45/-15.85	-18.03/-11.41	-17.75/-8.94	-15.12/-9.31	-8.49/-7.63	-7.52/-10.42	-11.12/-11.2	-11.16/-10.25	-9.69/-12.08	-9.34/7.8	-8.53/-9.87	-11.16/-11.6	-11.13/-11.44	-8.1/-10.58	-14.32/-17.66	-14.54/-11.32	-10.79/-18.82	-12.91/-11.12	-9.91/-13.29	-17.26/-14.62	-9.78/-10.89
Theta (135°)	-17.89/-18.02	-14.28/-18.22	-16.35/-11.48	-17.99/-17.82	-17.56/-19.31	-12.59/-17.2	-12.47/-14.52	-8.12/-8.01	-11.3/-12.47	-16.24/-13.26	-14.22/-9.45	-11.53/-14.49	-11.71/-11.47	-9.72/-11.45	-11.3/-14.15	-12.81/-11.29	-14.95/-13.06	-15.68/-17.95	-17.65/-19.46	-11.92/-14.91	-16.87/-6.16	-18.48/-19.08	-14.07/-19.17	-12.23/-11.32
Theta (142.5°)	-15.27/-18.76	-19.56/-17.42	-16.9/-18.88	-18.95/-17.18	-15.92/-15.1	-17.55/-14.19	-12.97/-10.45	-10.3/-8.78	-10.57/-15.14	-18.83/-17.38	-15.78/-12.94	-13.59/-14.95	-14.98/-13.09	-12.89/-16.63	-17.35/-13.14	-14.73/-13.03	-13.61/-18.01	-17.5/-14.88	-12.56/-14.08	-9.5/-16.24	-17.55/-12.77	-18.8/-19.2	-16.41/-17.26	-18.84/-18.77
Theta (150°)	-19.13/-18.78	-18.59/-19.05	-16.18/-18.12	-16.59/-15.65	-18.37/-11.31	-11.54/-14.12	-12.03/-11.88	-11.61/-12.49	-14.76/-17.55	-18.91/-17.16	-16.16/-16.83	-15.89/-16.81	-15.42/-14.33	-13.19/-14.2	-18.73/-13.81	-18.84/-13.95	-18.39/-17.32	-18.96/-17.9	-18.92/-16.96	-19.3/-13.78	-18.58/-18.83	-15.68/-17.27	-19.31/-18.24	-14.91/-18.41
Theta (157.5°)	-18.17/-17.49	-18.39/-17.3	-18.42/-18.37	-18.83/-19.09	-17.37/-17.62	-18.05/-18.72	-19.35/-18.1	-17.85/-18.78	-15.24/-18.44	-18.97/-18.21	-17.74/-17.7	-16.41/-18.88	-18.87/-14.41	-13.91/-17.67	-15.23/-15.63	-19.41/-18.42	-19.67/-18.99	-18.65/-17.57	-17.54/-18.56	-16.31/-16.99	-18.86/-18.23	-17.91/-18.84	-18.11/-18.66	-18.14/-19.96
Theta (165°)	-17.76/-17.56	-18.67/-18.45	-19.19/-18.55	-17.31/-19.36	-17.91/-17.69	-18.42/-18.29	-18.42/-18.62	-19.12/-15.03	-16.17/-16.13	-18.51/-18.17	-18.13/-17.66	-19.12/-17.78	-18.95/-18.58	-15.6/-15.65	-18.35/-18.69	-18.39/-18.18	-18.69/-18.19	-17.65/-17.91	-18.17/-18	-18.11/-18.52	-18.54/-18.51	-18.48/-19.02	-18.01/-18.9	-18.14/-18.91
Theta (172.5°)	-18.9/-18.58	-18.76/-17.11	-18.05/-18.54	-18.99/-18.79	-17.81/-18.76	-18.98/-19.05	-18.26/-19.92	-18.05/-18.07	-18.99/-19.41	-18.99/-18.65	-18.23/-19.01	-18.03/-19.04	-19.11/-18.89	-18.22/-19.3	-18.51/-18.16	-17.48/-18.65	-17.13/-18.65	-17.59/-17.35	-19.22/-18.19	-18.62/-18.56	-18.17/-17.75	-18.81/-17.56	-18.65/-17.71	-17.77/-18.53
Theta (180°)	-19.06/-19.28	-18.9/-18.7	-17.95/-18.41	-18.58/-18.15	-18.03/-18.37	-18.25/-18.43	-18.34/-17.98	-17.93/-18.21	-18.45/-17.71	-18.83/-19.09	-17.68/-17.81	-18.06/-17.81	-17.61/-18.03	-18.11/-18.61	-17.39/-19.31	-18.37/-18.25	-17.61/-17.18	-18.01/-18.19	-18.18/-18.04	-17.91/-18.33	-18.26/-18.25	-18.65/-19.25	-17.79/-18.44	-18.71/-19.07
Gain	Phi(7.5°)	Phi(15°)	Phi(30°)	Phi(45°)	Phi(60°)	Phi(75°)	Phi(90°)	Phi(105°)	Phi(120°)	Phi(135°)	Phi(150°)	Phi(165°)	Phi(180°)	Phi(195°)	Phi(210°)	Phi(225°)	Phi(240°)	Phi(255°)	Phi(270°)	Phi(285°)	Phi(300°)	Phi(315°)	Phi(330°)	Phi(345°)
Theta (0°)	9.62/9.27	7.56/6.8	6.57/6.53	5.9/-5.55	5.46/5.13	5.38/6.76	8.22/8.78	9.5/-4.27	16.85/17.83	18.42/17.59	12.94/9.25	7.67/6.62	6.19/5.02	3.97/3.58	3.28/2.85	3.14/3.44	4.63/5.76	5.73/6.44	8.69/10.95	12.95/13.21	16.31/18.32	16.41/15.06	14/12.29	12.67/10.66
Theta (7.5°)	4.59/-3.59	-2.63/-2.33	-2.54/-2.85	-3.11/-3.99	-4.14/-4.14	-7.02/-9.47	-12.32/-12	-14.21/-14.6	-14.87/14.21	-12.34/15.35	-15.03/-11.99	-12.69/10.88	-9.95/10.23	-8.63/-7.09	-5.99/-5.26	4.78/-4.4	-4.8/-5.53	-4.84/4.95	-7.38/-8.14	-9.52/-13.9	-15.39/17.86	-17.46/-18.09	-10.91/10.95	-7.22/6.19
Theta (15°)	-6.64/5.51	-3.93/-3.54	4.09/6.45	-4.02/-5.56	-6.09/6.88	-8.59/10.55	-16.46/17.64	-17.35/16	-14.47/12.71	-13.43/-15.1	-13.62/-10.6	-10.38/10.32	-8.3/6.91	-7.63/8.13	-7.4/7.08	-6.79/6.24	-6.29/6.86	-6.89/7.03	-5.88/8.75	-10.14/12.16	-13.9/-12.43	-11.74/8.82	-7.42/9.01	-10.76/8.9
Theta (22.5°)	-16.78/-12.7	-11.82/-13.75	-10.68/-7.61	-7.51/7.06	-6.21/6.01	-5.51/6.69	-9.77/12.69	-13.05/13.52	-15.28/15.38	-16.73/18.23	-16.53/11.52	-10.18/9.41	-7.05/5.96	-5.5/4.46	-4.29/6.22	-7.09/6.76	-6.73/7.46	-7.7/8.22	-9.28/9.12	-9.88/15.54	-14.57/15.21	-16.92/18.15	-17.42/17.7	-19.12/17.27
Theta (30°)	-17.34/-10.86	-9.4/-15.83	-18.99/-15.19	-11.27/7.13	-4.37/3.52	-4.32/7.84	-12.33/17.92	-18.57/19.07	-17.46/-17.61	-18.67/17.61	-12.36/10	-12.39/15.72	-18.18/16.36	-12.47/13.1	-8.36/6.67	-6.74/4.53	-3.44/5.52	-8.72/11.22	-15.55/11.59	-14.21/18.64	-18.11/12.24	-12.56/13.3	-8.44/7.74	-12.51/16.62
Theta (37.5°)	-17.47/13.12	-9.1/10.45	-14.13/12.91	-10.29/10.79	-6.57/5.1	-7.17/16.73	-13.73/17.9	-15.82/18.16	-14.41/12.32	-14.13/13.12	-9.14/9.29	-11.13/16.26	-18.16/18.14	-5.32/4.4	-9.09/9.36	-11.46/5.22	-2.97/6.87	-14.03/18.57	-19.18/15.19	-16.61/16.88	-15.66/15.56	-10.95/12	-8.13/7.83	-9.05/18.89
Theta (45°)	-16.61/16.04	-12.32/11.73	-13.35/11.67	-11.87/15.61	-18.11/9.83	-12.42/18.61	-15.88/10.4	-9.77/11.72	-15.78/8.87	-10.91/10.57	-10.35/11.71	-12.17/11.09	-18.11/19.66	-8.83/4.22	-5.82/6.38	-16.12/6.01	-3.07/6.63	-13.12/19.08	-16.78/13.35	-16.33/17.68	-18.94/19.32	-17.65/14.54	-10.17/7.28	-9.06/12.71
Theta (52.5°)	-9.15/-10.6	-11.24/14.78	-16.1/15.31	-12.09/13.14	-19.1/21.31	-12.19/14	-17.04/17.9	-8.04/9.94	-10.07/17.62	-14.77/11.77	-12.85/17.8	-9.22/7.32	-10.77/12.29	-13.69/7.16	-5.92/10.44	-13.59/6.47	-4.95/8.39	-11.35/15.59	-11.78/11.44	-11.86/18.67	-19.19/19.74	-18.28/18.37	-16.27/17.94	-11.28/18.78
Theta (60°)	-11.71/11.77	-10.67/18.44	-18.69/15.01	-9.43/11.51	-18.29/13.35	-9.65/10.35	-19.13/11.08	-8.55/8.89	-11.99/18.18	-17.58/12.87	-13.85/16.8	-18.91/11.25	-10.67/10.51	-14.01/17.09	-14.47/10.97	-9.64/12.62	-11.94/15.99	-11.11/11.18	-12.43/14.23	-18.64/18.65	-15.35/17.24	-19.03/14.52	-10.15/10.63	
Theta (67.5°)	-17.92/17.9	-17.58/18.05	-18.85/10.94	-8.39/11.62	-15.44/12.02	-9.62/8	-13.73/12.5	-9.95/9.66	-10.72/16.71	-15.95/10.86	-15.32/18.1	-17.27/10.47	-13.83/13.17	-13.11/13.45	-17.96/18.57	-17.78/15.98	-18.45/18.9	-13.08/17.42	-11.83/9.3	-13.34/11.89	-17.17/18.06	-17.55/15.88	-18.44/13.15	-9.67/15.69
Theta (75°)	-18.79/19.06	-15.17/13.47	-17.63/9.4	-8.69/10.5	-12.08/13.49	-9.94/7.3	-13.63/16.76	-14.51/14.96	-15.7/11.61	-15.18/17.8	-11.64/18.74	-19.21/15.93	-18.49/17.66	-18.19/17.7	-18.91/17.66	-18.19/17.82	-18.91/17.82	-16.87/14.72	-13.55/11.71	-13.55/11.71	-19.58/18.56	-17.36/14.17	-15.44/13.16	-11.83/17.56
Theta (82.5°)	-15.39/16.53	-11.31/15.74	-17.68/10.09	-8.81/10.5	-12.13/14.75	-11.56/10.47	-17.74/17.46	-15.96/17.94	-17.34/17.65	-18.15/14.45	-18.16/18.38	-16.43/18.15	-17.67/18.98	-18.33/18.87	-16.89/17.64	-17.87/17.83	-16.09/18.85	-18.57/16.1	-13.76/8.77	-13.63/13.52	-18.29/17.96	-16.64/14.47	-15.24/14.24	-15.17/18.88
Theta (90°)	-13.77/17	-11.37/17.15	-17.34/11.07	-11.91/13.02	-14.43/14.07	-18.27/15.18	-17.45/18.23	-18.16/18.92	-18.47/19.48	-18.58/15.82	-17.61/18.65	-16.75/19.05	-18.46/18.19	-19/18.54	-18.37/18.52	-17.61/18.69	-16.66/17.58	-18.67/17.93	-17.21/10.74	-14.63/14.59	-17.14/18.07	-18.61/19.76	-16.41/16.42	-17.71/18.8
Theta (97.5°)	-13.68/16.64	-12.18/18.81	-18.21/14.05	-15.04/15.63	-18.29/16.26	-18.31/17.66	-17.96/17.66	-17.86/18.18	-18.45/18.54	-19.75/18.94	-17.99/17.92	-17.38/13.59	-18.51/17.36	-19.38/17.87	-18.58/13.49	-18.17/18.98	-18.77/16.56	-19.07/19.28	-18.77/16.56	-19.07/19.28	-18.76/14.93	-19.26/18.87	-17.53/17.77	-18.39/17.44
Theta (105°)	-17.22/18.67	-13.98/19.45	-17.33/14.71	-18.98/18.05	-15.88/19.54	-18.35/17.52	-18.13/17.25	-17.95/18.74	-19.05/18.75	-18.84/18.64	-19.21/19.95	-18.84/17.82	-18.08/19.15	-17.15/18.83	-19.23/18.47	-18.28/16.63	-18.42/18.58	-18.26/18.8	-18.64/18.55	-18.31/19.02	-19.08/17.15	-18.51/17.45	-15.17/17.45	-18.93/17.47
Theta (112.5°)	-18.61/17.57	-18.25/17.64	-15.59/16.65	-18.14/19.17	-18.08/15.25	-18.91/15.69	-16.03/17.24	-18.86/18.36	-19.06/17.93	-18.95/18.37	-17.87/17.48	-18.37/17.9	-17.35/17.71	-18.22/17.63	-18.63/17.55	-17.25/17.55	-15.39/18.55	-18/19.08	-17.29/16.06	-19.21/18.13	-18.72/15.14	-18.31/18.87	-17.35/19.09	-18.21/18.38
Theta (120°)	-13.95/14.97	-18.64/19.24	-19.1/17.54	-18.27/17.36	-17.62/16.63	-18.96/17.17	-17.74/18.44	-18.85/17.94	-18.54/18.81	-19/18.6	-18.06/18.74	-19.29/17.89	-19.02/18.64	-17.92/18.82	-18.25/18.6	-19.23/17.57	-15.94/13.62	-17.47/16.66	-19.11/13.79	-15.28/17.12	-12.39/16.16	-18.73/19.08	-18.17/18.59	-18.72/18.11
Theta (127.5°)	-14.35/18.26	-18.29/17.53	-17.61/17.87	-17.83/18.22	-18.43/18.47	-18.18/18.4	-18.25/18.8	-19.33/18.31	-18.23/17.71	-18.99/13.6	-18.32/18.39	-18.47/17.58	-18.91/19.25	-18.15/17.53	-18.89/13.64	-18.83/18.57	-17.66/14.34	-17.62/17.58	-18.61/13.79	-17.95/18.22	-18.64/19.02	-19.03/18.11	-19.22/18.65	-18.56/16.14
Theta (135°)	-19.04/18.39	-18.03/17.42	-17.7/18.41	-17.23/19.07	-18.51/18.31	-18.92/18.85	-18.83/18.85	-17.99/17.46	-16.94/17.84	-17.85/19.07	-17.71/18.04	-18.47/18.19	-18.69/18.11	-17.48/18.32	-17.96/18.08	-19.42/19.01	-16.94/17.03	-17.85/19.23	-16.91/18.61	-19.28/17.98	-18.79/19.44	-17.42/19.45	-18.81/15.94	-18.01/18.86
Theta (142.5°)	-18.22/19.15	-18.84/19.04	-18.14/18.52	-18.73/19.34	-18.03/18.94	-18.61/17.85	-18.25/18.64	-18.49/17.94	-18.39/17.41	-18.58/18.16	-17.87/18.16	-18.21/18.11	-18.87/18.16	-18.13/19.24	-18.76/18.91	-18.92/17.65	-17.41/18.48	-17.55/18.74	-18.74/18.67	-17.89/18.37	-19.17/19.11	-19.07/17.95	-17.43/17.71	-17.72/18.39
Theta (150°)	-17.63/18.76	-18.44/17.91	-18.03/19	-18.5/18.42	-18.41/17.44	-18.04/15.45	-17.51/18.53	-19.16/17.85	-18.11/18.29	-19.79/17.1	-18.84/18.38	-18.37/18.2	-18.22/18.79	-18.12/18.35	-17.49/18.91	-18.48/17.41</								



# Radiated Composite Gain Data\_Radio\_4\_6GHz\_4TX

# Appendix F

Theta	Phi	Gain	Phi(15°)	Phi(30°)	Phi(45°)	Phi(60°)	Phi(75°)	Phi(90°)	Phi(105°)	Phi(120°)	Phi(135°)	Phi(150°)	Phi(165°)	Phi(180°)	Phi(195°)	Phi(210°)	Phi(225°)	Phi(240°)	Phi(255°)	Phi(270°)	Phi(285°)	Phi(300°)	Phi(315°)	Phi(330°)	Phi(345°)																							
Theta(15°)	Phi(0°)	-18.05/-15.67	-15.86/-17.85	-18.02/-17.07	-15.72/-14.52	-17.43/-18.95	-17.62/-18.62	-16.51/-16.71	-17.32/-18.54	-19.08/-18.58	-19.31/-18.11	-18.47/-18.97	-16.19/-16.61	-18.84/-18.17	-16.89/-17.78	-18.74/-18.56	-17.07/-17.86	-18.83/-17.27	-18.81/-17.11	-18.43/-18.25	-15.81/-15.72	-17.72/-16.33	-17.46/-19.47	-17.28/-18.34	-18.81/-17.47																							
Theta(17.25°)	Phi(0°)	-17.16/-14.22	-15.36/-15.95	-14.71/-12.6	-13.36/-15.83	-16.66/-15.95	-16.95/-16.48	-15.26/-13.52	-14.69/-19.04	-16.64/-17.8	-18.05/-18.32	-18.55/-18.55	-18.94/-18.32	-18.77/-17.36	-16.88/-18.96	-17.29/-18.32	-18.07/-17.86	-17.76/-16.83	-18.66/-18.55	-18.49/-18.66	-19.33/-15.33	-15.22/-16.44	-17.71/-19.27	-18.42/-17.49	-18.34/-17.47																							
Theta(180°)	Phi(0°)	-16.44/-14.37	-17.27/-18.58	-18.71/-18.58	-17.97/-18.18	-18.64/-18.17	-19.04/-18.58	-18.28/-19.14	-18.44/-19.04	-18.68/-17.11	-18.05/-19.31	-19.16/-37	-14.55/-15.35	-16.77/-17.36	-16.66/-16.3	-16.92/-17.52	-17.88/-15.65	-18.27/-18.53	-17.56/-18.32	-17.58/-18.59	-18.82/-18.44	-18.72/-19.34	-18.39/-17.85	-18.49/-19.46	-17.61/-17.67																							
Phi(0°)	Theta(7.5°)	6.1755/Pol	ThetaAnt. 3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																							
Gain	Phi(0°)	Phi(7.5°)	Phi(15°)	Phi(22.5°)	Phi(30°)	Phi(37.5°)	Phi(45°)	Phi(52.5°)	Phi(60°)	Phi(67.5°)	Phi(75°)	Phi(82.5°)	Phi(90°)	Phi(97.5°)	Phi(105°)	Phi(112.5°)	Phi(120°)	Phi(127.5°)	Phi(135°)	Phi(142.5°)	Phi(150°)	Phi(157.5°)	Phi(165°)	Phi(172.5°)	Phi(180°)	Phi(187.5°)	Phi(195°)	Phi(202.5°)	Phi(210°)	Phi(217.5°)	Phi(225°)	Phi(232.5°)	Phi(240°)	Phi(247.5°)	Phi(255°)	Phi(262.5°)	Phi(270°)	Phi(277.5°)	Phi(285°)	Phi(292.5°)	Phi(300°)	Phi(307.5°)	Phi(315°)	Phi(322.5°)	Phi(330°)	Phi(337.5°)	Phi(345°)	Phi(352.5°)
Theta(7.5°)	Phi(0°)	-7.28/-7.35	-7.57/-7.15	-7.22/-7.29	-6.98/-6.64	-7.32/-8.08	-8.29/-8.24	-8.51/-8.89	-11.08/-11.79	-11.77/-13.81	-15.78/-17.79	-18.32/-14.03	-11.74/-10.02	-8.71/-6.87	-5.51/-4.62	-3.29/-3.63	-4.16/-4.88	-4.62/-4.13	-4.74/-6.25	-8.19/-10.3	-11.77/-13.49	-19.37/-18.68	-18.16/-14.51	-17.12/-9.02	-7.05/-6.57																							
Theta(15°)	Phi(0°)	-6.69/-6.25	-5.51/-4.86	-4.43/-3.84	-3.4/-2.94	-2.95/-3.74	-4.86/-5.93	-6.08/-7.16	-8.92/-12.33	-17.09/-18.13	-18.22/-16.83	-11.38/-9.45	-9.05/-8.5	-8.08/-8.28	-9.01/-9.09	-8.78/-8.8	-9.21/-9.82	-9.52/-8.1	-6.77/-6.43	-7.15/-8.42	-8.23/-9.19	-9.97/-12.43	-16.72/-17.69	-14.57/-11.21	-9.33/-6.67																							
Theta(17.25°)	Phi(0°)	-5.48/-4.66	-5.23/-6.24	-6.74/-6.64	-6.32/-6.71	-6.71/-8.71	-10.29/-10.01	-12.07/-11.54	-9.13/-14.39	-15.33/-14.08	-18.75/-17.37	-15.46/-9.48	-7.72/-7.8	-7.96/-6.89	-5.73/-5.5	-5.93/-6.89	-8.01/-8.8	-8.97/-8.64	-7.74/-7.4	-7.89/-7.63	-7.13/-7.02	-8.18/-11.7	-15.81/-18.74	-15.29/-10.3	-8.39/-5.76																							
Theta(180°)	Phi(0°)	-6.3/-4.3	-4.76/-7.25	-10.36/-11.39	-12.67/-12.35	-10.3/-8.01	-7.58/-7.16	-8.81/-11.1	-11.77/-14.74	-15.43/-12.25	-10.96/-9.98	-10.35/-10.2	-10.27/-8.25	-5.26/-2.82	-1.94/-2.13	-3.14/-4.39	-5.08/-5.56	-6.21/-7.84	-10.57/-13.46	-12.62/-12.85	-16.77/-12.98	-14.95/-17.39	-16.71/-17.5	-15.36/-11.01	-8.69/-6.81																							
Theta(30°)	Phi(0°)	-10.46/-9.83	-7.28/-9.25	-10.57/-13.51	-12.86/-14.08	-14.88/-11.33	-8.75/-8.96	-9.48/-10.5	-11.62/-11	-17.26/-9.03	-10.63/-8.37	-6.66/-7.29	-7.43/-10.53	-10.49/-6.66	-3.17/-1.5	-1.29/-3.71	-6.35/-5.96	-7.17/-10.76	-16.33/-17.1	-10.78/-16.6	-18.56/-13.31	-18.22/-19.89	-19.05/-15.65	-15.22/-15.5	-17.63/-12.27																							
Theta(37.5°)	Phi(0°)	-8.99/-11.87	-10.48/-12.64	-12.77/-18.29	-18.4/-17.7	-15.47/-13.26	-10.52/-9.94	-9.67/-11.86	-9.01/-8.66	-10.23/-8.37	-8.17/-8.06	-8.57/-8.23	-7.9/-8.23	-10.68/-16.1	-7.29/-2.3	-1.5/-5.06	-10.34/-13.41	-16.39/-15.45	-12.05/-9.27	-9.87/-14.6	-14.62/-10.68	-13.52/-19.44	-18.09/-13.68	-10.44/-14.47	-15.54/-14.24																							
Theta(45°)	Phi(0°)	-9.44/-10.46	-12.87/-11.7	-9.55/-13.47	-14.59/-18.27	-17.98/-17.94	-15.16/-10.77	-10.65/-13.49	-11.81/-10.5	-10.29/-11	-8.97/-6.45	-6.52/-5.79	-6.2/-6.9	-6.45/-7.65	-14.32/-10.98	-6.78/-8.52	-15.31/-11.24	-9.24/-7.31	-6.34/-9.67	-15.91/-17.92	-16.58/-11.45	-10.53/-13.36	-11.11/-12.62	-11.96/-12.35	-15.39/-13.43																							
Theta(52.5°)	Phi(0°)	-16.74/-19.01	-15.46/-8.82	-6.37/-7.4	-10.82/-14.95	-14.98/-15.21	-18.97/-14.43	-12.53/-11.76	-13.03/-17.16	-16.15/-11.15	-9.19/-7.76	-7.45/-6.56	-8.32/-8.97	-7.63/-10.82	-8.69/-9.31	-17.85/-13.58	-10.81/-10.29	-10.83/-6.25	-5.46/-7.12	-15.55/-12.9	-10.27/-8.61	-9.03/-10.75	-9.78/-11.08	-14.18/-14.53	-15.51/-16.08																							
Theta(60°)	Phi(0°)	-17.3/-15.28	-17.65/-10.82	-7.17/-7.59	-6.43/-8.1	-10.36/-19.21	-17.89/-11.82	-6.87/-8.1	-14.26/-15.23	-13.16/-11.63	-10.49/-10.91	-10.15/-13.32	-12.21/-15.12	-10.86/-7.73	-12.93/-19.03	-10.81/-8.97	-10.96/-8.33	-6.85/-8.62	-14.52/-10.16	-7.29/-7.86	-9.37/-11.64	-11.25/-13.98	-18.13/-16.3	-15.73/-19.31																								
Theta(67.5°)	Phi(0°)	-9.56/-9.83	-8.91/-8.96	-8.61/-7.49	-6.01/-6.99	-9.21/-8.9	-18.75/-9.45	-6.05/-8.83	-14.54/-16.47	-9.55/-12.34	-14.45/-11.93	-12.38/-16.43	-14.77/-14.11	-18.85/-18.19	-13.45/-11.78	-19.26/-15.7	-17.67/-12.07	-14.71/-12.34	-13.47/-8.77	-10.68/-12.4	-13.98/-16.9	-14.52/-19.21	-18.54/-11.67	-18.51/-14.2																								
Theta(75°)	Phi(0°)	-8.75/-8.56	-5.88/-7.94	-8.77/-9.78	-6.31/-5.73	-8.28/-13.54	-16.68/-10.9	-7.79/-11.14	-15.56/-18.36	-10.31/-11.4	-16.06/-14.57	-11.98/-11.11	-15.85/-12.33	-18.28/-12.83	-19.01/-17.54	-17.59/-13.45	-17.95/-18.55	-13.3/-12.08	-11.91/-11.36	-141/-10.82	-8.45/-10.38	-10.65/-18.11	-14.2/-16.68	-17.84/-13.48	-18.69/-9.14																							
Theta(82.5°)	Phi(0°)	-8.35/-10.38	-6.61/-7.9	-9.55/-11.66	-8.88/-6.57	-9.22/-14.93	-13.32/-12.18	-9.88/-15.74	-16.07/-17.84	-10.38/-11.22	-14.85/-13.75	-12.48/-14.83	-18.99/-14.46	-17.45/-18.66	-15.26/-13.17	-15.19/-16.5	-18.35/-18.2	-14.45/-16.04	-13.71/-12.82	-17.93/-11.16	-7.44/-8.38	-9.52/-18.85	-13.79/-21.21	-18.41/-15.99	-18.22/-10.8																							
Theta(90°)	Phi(0°)	-9.14/-11.72	-7.49/-10.04	-12.55/-13.4	-8.66/-8.13	-11.1/-14.7	-9.81/-12.18	-12.73/-19.08	-18.52/-17.62	-10.83/-11.36	-18.31/-16.56	-15.14/-18.11	-18.71/-16.29	-18.11/-17.35	-18.73/-16.44	-14.06/-14.62	-17.84/-18.27	-19.28/-18.02	-17.33/-12.93	-15.43/-13.39	-9.16/-8.07	-15.23/-17.53	-15.25/-18.68	-14.86/-14.66	-16.61/-11.56																							
Theta(97.5°)	Phi(0°)	-9.37/-14.65	-9.66/-13.9	-15.7/-15.25	-9.89/-9.86	-12.02/-12.3	-8.83/-11.24	-14.95/-18.45	-18.12/-18.52	-10.98/-10.89	-17.25/-15.4	-17.75/-19	-18.19/-18.06	-19.11/-18.46	-18.19/-18.42	-13.96/-16.23	-18.51/-18.78	-18.44/-19.21	-18.05/-16.31	-18.02/-16.96	-17.97/-13.9	-18.76/-19.09	-16.29/-16.77	-15.96/-12.15	-15.74/-13.59																							
Theta(105°)	Phi(0°)	-11.56/-15.55	-10.69/-13.68	-18.67/-15.69	-10.57/-10.68	-13.03/-12.53	-8.92/-8.96	-13.72/-18.15	-18.45/-18.44	-9.56/-9.83	-13.76/-18.77	-17.06/-17.37	-15.45/-15.65	-18.66/-19.04	-18.22/-13.47	-18.17/-17.25	-18.73/-29.29	-17.03/-14.8	-18.59/-17.62	-15.31/-12.8	-18.96/-15.63	-15.63/-12.89	-16.12/-12.75	-12.83/-12.21																								
Theta(112.5°)	Phi(0°)	-13.84/-18.6	-12.87/-11.7	-17.38/-13.52	-12.57/-10.71	-13.81/-14.21	-11.26/-11.52	-13.75/-18.87	-18.61/-18.32	-11.23/-10.59	-13.63/-17.44	-15.51/-18.86	-13.64/-15.65	-15.03/-17.27	-19.31/-19.11	-18.41/-15.78	-17.96/-17.92	-19.32/-17.2	-19.31/-17.9	-15.53/-11.61	-15.14/-17.55	-15.62/-15.95	-17.14/-14.78	-16.02/-16.1																								
Theta(120°)	Phi(0°)	-18.01/-17.2	-16.9/-17.84	-19.55/-18.36	-13.55/-13.85	-13.11/-13.6	-18.04/-14.5	-16.81/-17.43	-18.89/-17.17	-11.49/-12.89	-14.95/-17.81	-14.95/-12.86	-18.46/-16.3	-16.11/-15.2	-18.32/-13.71	-17.08/-18.57	-17.89/-17.07	-18.73/-17.51	-16.21/-17.84	-11.52/-13.4	-17.95/-18.59	-15.64/-17.8	-8.86/-18.28	-17.97/-16.29	-17.77/-18.07																							
Theta(127.5°)	Phi(0°)	-18.06/-13.33	-18.02/-18.04	-18.27/-15.44	-16.27/-13.55	-15.47/-16.19	-19.72/-10.74	-16.46/-18.48	-16.28/-16.2	-17.13/-14.23	-16.28/-17.77	-14.88/-15.96	-17.54/-18.37	-17.73/-15.95	-15.35/-14.17	-14.09/-16.46	-17.06/-18.96	-16.95/-17.92	-17.82/-18.09	-16.97/-18.09	-16.56/-14.12	-13.63/-14.71	-15.72/-15.14	-18.06/-16.99																								
Theta(135°)	Phi(0°)	-17.77/-18.11	-18.47/-15.26	-17.37/-18.74	-17.01/-14.6	-14.58/-17.77	-18.02/-18.52	-16.14/-19.27	-18.78/-18.27	-17.63/-16.81	-17.46/-17.46	-14.98/-18.46	-18.13/-13.33	-19.01/-19.07	-17.95/-18.58	-17.51/-14.33	-17.77/-17.93	-17.48/-15.12	-19.01/-18.26	-17.06/-15.83	-13.92/-18.42	-19.03/-15.45	-10.95/-14.51	-19.02/-18.93	-12.17/-17.95																							
Theta(142.5°)	Phi(0°)	-18.32/-18.4	-14.89/-12.23	-14.94/-18.56	-18.34/-16.46	-13.18/-19.47	-17.53/-17.99	-16.35/-18.79	-18.83/-18.28	-17.21/-17.41	-17.75/-18.23	-17.97/-19.01	-17.85/-17.36	-19.35/-18.21	-19.01/-17.77	-18.36/-18.54	-18.32/-14.39	-18.09/-19.1	-14.13/-18.91	-14.13/-16.45	-16.47/-18.42	-18.08/-18.71	-13.41/-15.81	-15.76/-17.79	-18.15/-18.09																							
Theta(150°)	Phi(0°)	-18.68/-12.67	-13.44/-14.48	-17.83/-14.51	-13.14/-14.34	-18.18/-17.79	-18.53/-16.21	-16.17/-17.13	-15.71/-14.92	-14.23/-15.57	-18.51/-15.15	-18.68/-18.58	-19.05/-18.88	-18.72/-15.81	-17.56/-18.11	-17.17/-18.3	-15.45/-18.4	-17.64/-17.82	-18.46/-18.37	-17.37/-18.84	-17.73/-14.85	-17.97/-18.8	-18.5/-18.59	-15.31/-15.35	-12.75/-15.68																							
Theta(157.5°)	Phi(0°)	-17.77/-19.17	-16.37/-12.84	-13.85/-16.72	-18.38/-18.42	-15.16/-14.19	-13.31/-14.35	-16.31/-17.91	-18.31/-16.64	-16.85/-16.87	-17.81/-19.43	-16.55/-18.67	-17.81/-19.43	-17.21/-13.69	-13.82/-14.26	-13.59/-18.78	-18.62/-16.37	-17.45/-18.04	-18.07/-17.73	-19.01/-18.26	-15.65/-16.21	-16.13/-16.67	-16.99/-17.96	-18.99/-17.99	-18.32/-18.15																							
Theta(165°)	Phi(0°)	-15.83/-16.19	-17.94/-17.78	-17.78/-18.07	-19.17/-8.1	-18.42/-18.67	-17.71/-18.11	-18.54/-18.89	-18.96/-19.12	-17.1/-19.26	-18.21/-17.7	-18.1/-18.85	-15.15/-12.15	-13.41/-8.83	-14.59/-16.42	-18.51/-16.72	-12.65/-12.92	-15.59/-18.42	-18.14/-17.53	-19.36/-15.93	-14.03/-13.75	-14.36/-15.57	-14.81/-16.61	-17.82/-16.74	-15.29/-17.34																							
Theta(172.5°)	Phi(0°)	-18.44/-17.67	-19.36/-16.62	-16.13/-19.45	-17.94/-18.21	-17.71/-17.86	-17.66/-17.87	-17.26/-18.18	-17.81/-17.97	-16.82/-19.66	-15.65/-18																																					



# Radiated Composite Gain Data\_Radio 4\_6GHz\_4TX

# Appendix F

Theta (°)	7.66/7.79	6.88/6.85	6.02/6	5.9/5.84	5.75/5.99	7.66/8.28	8.71/10.29	10.57/14.72	15.1/16.87	18.38/17.34	16.92/10.72	8.37/1.21	4.83/2.93	2.14/1.57	-1.26/1.27	-1.34/1.52	-1.89/3.11	-4.04/4.56	-6.7/8.41	-10.24/12.11	-13.22/16.85	-17.7/18.84	-13.65/11.47	-9.39/8.44	
Theta (15°)	-6.72/7.67	-7.81/6.82	-6.5/7.02	-7.78/7.62	-5.92/5.31	-6.28/7	-7.45/9.62	-11.44/17.3	-18.45/16.17	-13.34/9.58	-11.63/12.38	-11.07/11.44	-9.61/9.96	-4.81/3.1	-2.33/1.95	-2.03/2.84	-3.74/5.63	-6.68/7.18	-8.64/8.14	-8.17/9.98	-10.28/14.39	-18.58/17.68	-16.99/11.72	-8.26/8.43	
Theta (22.5°)	-5.78/5.83	-6.48/5.44	-6.14/7.28	-6.16/8.28	-6.05/6.11	-6.27/7.43	-7.29/8.78	-9.55/14.27	-12.71/14.62	-12.78/18.12	-6.93/8.06	-11.88/11.22	-11.88/9.98	-7.31/5.93	-4.57/4.05	-4.77/6.32	-5.78/5.99	-7.22/9.73	-9.75/9.76	-12.5/12.92	-16.28/18.01	-18.51/15.27	-12.69/8.86	-8.87/13.98	
Theta (30°)	-7.14/3.95	-3.98/4.35	-6.76/7.92	-12.95/14.22	-9.37/6.06	-5.01/7.37	-10.55/8.67	-10.05/9.45	-10.21/11.95	-12.37/13.35	-6.97/6.44	-7.16/6.68	-10.67/12.91	-12.04/11.7	-8.13/9.45	-4.58/7.6	-8.89/9.6	-12.53/17.78	-14.65/11.68	-13.73/13.17	-16.56/18.64	-17.2/19.36	-18.94/14.27	-10.68/8.27	
Theta (37.5°)	-8.77/5.17	-4.18/5.68	-11.51/11.59	-18.09/15.11	-7.33/4.67	-5.16/7.5	-11.02/15.16	-16.8/14.83	-13.23/9.28	-10.54/10.3	-9.12/5.22	-4.25/6.74	-7.35/6.67	-7.32/12.47	-16.33/9.12	-6.98/8.15	-9.07/13.85	-18.53/14.88	-12.76/15.11	-18.23/14.86	-18.39/18.77	-17.68/18.49	-17.18/17.97	-17.54/11.63	
Theta (45°)	-10.46/4.33	-3.36/5.07	-12.53/16.96	-16.39/17.91	-12.47/8.11	-6.53/5.46	-6.53/5.46	-12.47/8.11	-16.39/17.91	-12.47/8.11	-6.53/5.46	-6.53/5.46	-12.47/8.11	-16.39/17.91	-12.47/8.11	-6.53/5.46	-6.53/5.46	-12.47/8.11	-16.39/17.91	-12.47/8.11	-6.53/5.46	-6.53/5.46	-12.47/8.11	-16.39/17.91	-12.47/8.11
Theta (52.5°)	-9.99/4.45	-4.49/6.4	-12.84/14.9	-9.74/10.54	-17.94/10.81	-6.16/3.51	-3.59/6.3	-9.85/8.18	-8.84/14.62	-18.15/15.98	-13.72/15.32	-7.98/9.65	-17.76/9.48	-11.19/8.54	-7.22/11.63	-16.38/18.61	-11.02/10.9	-9.75/9.54	-15.3/19.08	-12.95/14.89	-15.71/7.34	-9.59/14.35	-10.95/6.71	-10.33/14.71	
Theta (60°)	-16.1/11.77	-10.31/9.98	-13.49/10.08	-6.76/7.24	-18.56/13.37	-6.92/5.15	-7.08/14.1	-18.62/13.62	-11.08/12.74	-18.41/17.98	-14.26/11.65	-10.77/10.16	-16.72/17.78	-16.6/18.93	-10.01/11.74	-12.42/17.37	-9.06/7.33	-9.78/9.58	-15.38/18.19	-11.6/11.63	-13.88/8.32	-9.93/11.51	-11.24/6.01	-8.26/18	
Theta (67.5°)	-14.86/13.42	-12.98/13.37	-11.52/8.53	-5.63/8.25	-18.24/11.94	-8.65/10.61	-16.99/15	-14.96/18.48	-13.71/17.26	-19.36/19.44	-14.06/14.12	-19.15/15.16	-19.36/19.44	-15.34/17.09	-17.62/17.88	-17.14/18.58	-9.57/6.32	-10.32/10.21	-12.97/18.31	-14.1/14.29	-13.57/10.71	-14.14/12.29	-10.09/3.3	-12.07/14.84	
Theta (75°)	-10.64/7.4	-11.05/11.01	-11.34/8.85	-5.69/6.65	-17.55/13.75	-10.63/11.05	-15.85/13.39	-13.64/18.75	-17.72/18.81	-19.2/18.63	-17.62/16.43	-18.98/18.54	-16.75/18.7	-18.5/13.49	-14.34/18.57	-18.66/17.12	-17.1/7.97	-9.43/10.72	-11.18/15.07	-12.1/13.02	-14.69/18.55	-19.46/13.16	-14.65/14.94	-13.85/11	
Theta (82.5°)	-10.06/7.03	-11.14/11.61	-12.59/10.3	-6.35/7.73	-12.03/14	-18.72/16.82	-17.33/18.15	-16.01/18.78	-18.72/18.25	-18.06/18.42	-18.74/18.7	-16.01/18.78	-12.45/15.79	-18.42/17.94	-12.45/15.79	-18.42/17.94	-12.45/15.79	-18.42/17.94	-12.45/15.79	-18.42/17.94	-12.45/15.79	-18.42/17.94	-12.45/15.79	-18.42/17.94	-12.45/15.79
Theta (90°)	-11.22/9.06	-13.19/13.51	-13.67/12.21	-9.71/10.08	-11.59/10.02	-12.92/15.03	-18.72/15.99	-17.86/19.04	-14.61/17.36	-18.05/17.87	-18.06/18.46	-14.27/16.42	-15.38/16.71	-18.87/18.06	-12.72/14	-18.71/19.09	-17.37/11.04	-10.21/13.78	-9.79/12.28	-15.56/19.14	-14.16/17.35	-19.27/12.27	-18.94/18.29	-14.93/9.33	
Theta (97.5°)	-12.77/10.59	-14.98/14.03	-15.73/15.02	-9.5/13.02	-11.74/9.3	-14.5/14.37	-13.14/15.59	-17.54/17.1	-15.15/18.35	-17.88/18.98	-17.97/18.62	-14.2/12.74	-15.63/17.17	-18.87/18.47	-15.44/18.05	-19.31/19.07	-18.73/17.24	-15.91/18.08	-12.54/12.7	-17.73/18.34	-17.14/18.24	-18.11/17.77	-17.51/18	-17.29/13.27	
Theta (105°)	-15.37/10.6	-15.31/14.04	-16.99/16.36	-12.42/13.4	-11.4/10.86	-18.35/13.6	-13.11/16.27	-17.84/18.84	-18.4/18.1	-18.61/19.2	-18.67/18.96	-16.85/12.79	-16.82/14.34	-17.77/18.48	-19.24/19.09	-18.35/19.03	-18.79/18.97	-18.84/16.63	-17.79/18.52	-17.24/14.19	-18.41/17.66	-18.41/17.66	-18.27/15.53	-17.75/15.53	
Theta (112.5°)	-14.43/12.82	-19.27/15.31	-17.26/16.9	-16.52/13.78	-11.28/13.01	-18.36/14.8	-16.59/14.32	-18.05/18.6	-15.49/14.71	-18.16/18.95	-17.36/18.03	-18.11/12.22	-14.37/14.32	-15.48/18.83	-18.39/18.42	-17.93/17.63	-18.05/18.63	-14.43/15.99	-18.45/18.71	-17.75/14.13	-19.18/17.7	-17.48/17.74	-19.12/14.13	-16.14/14.34	
Theta (120°)	-14/13.84	-18.59/18.31	-18.79/16.75	-18.47/18.53	-12.69/12.82	-17.58/17.56	-16.89/17.07	-18/17.54	-18.13/18.75	-18.9/18.5	-18.44/18.52	-19.22/17.41	-19.27/16.97	-16.14/19.27	-18.3/18.41	-16.43/18.35	-19.23/18.15	-19.49/18.68	-10.31/17.93	-18.05/18.43	-17.81/18.21	-18.16/15.86	-19.05/17.91	-18.49/15.69	
Theta (127.5°)	-17.56/10.53	-18.49/18.17	-18.41/17.7	-19.09/17.78	-16.87/18.38	-18.29/17.32	-19.01/17.49	-18.63/19.14	-17.71/13.62	-17.84/18.84	-18.61/19.2	-18.72/18.66	-18.81/19.37	-18.26/18.37	-18.56/15.12	-18.41/18.24	-18.36/14.5	-19.21/17.6	-12.5/18.85	-19.21/17.6	-18.5/18.85	-17.76/12.51	-14.21/13.95	-18.41/13.53	
Theta (135°)	-18.33/18.61	-17.89/19.26	-18.67/18.01	-17.81/19.27	-17.48/18.39	-18.59/17.03	-18.67/17.57	-17.66/18.15	-19.08/19.1	-17.75/18.86	-18.05/19.12	-17.59/17.55	-18.91/19.37	-18.87/18.62	-18.69/15.73	-14.82/18.69	-16.9/17.78	-17.75/18.48	-15.5/13.65	-16.2/18.31	-18.63/18.59	-17.79/12.18	-15.9/18.48	-16.81/16.65	
Theta (142.5°)	-18.01/17.72	-18.62/18.58	-17.32/18.43	-17.01/18.6	-18.45/18.23	-18.51/18.07	-18.16/18.53	-17.98/18.12	-18.71/18.78	-18.43/18.79	-17.77/18.35	-18.58/19.3	-18.45/19.06	-15.65/19.15	-18.44/16.82	-19.14/16.93	-18.11/17.16	-18.69/17.75	-19.14/18.34	-18.95/18.99	-18.76/18.28	-19.42/18.41	-18.82/17.73	-18.88/18.17	
Theta (150°)	-19.56/17.05	-18.38/18.73	-19.09/18.91	-19.23/17.52	-19.1/18.11	-18.26/17.47	-17.39/17.17	-19.17/18.93	-18.79/18.18	-18.45/18.53	-18.26/17.77	-17.68/18.37	-15.94/18.93	-18.31/18.49	-18.42/14.12	-17.72/18.82	-18.96/18.4	-19.51/19.18	-19.28/15.99	-18.35/19.12	-18.1/18.12	-18.25/18.33	-17.18/14.6	-17.18/17.51	
Theta (157.5°)	-18.13/17.85	-18.17/18.91	-16.84/18.27	-17.42/19	-18.41/17.45	-18.44/18.93	-19.53/17.64	-18.67/16.55	-18.79/18.65	-19.12/18.98	-17.43/18.46	-18.21/18.56	-18.9/18.42	-19.13/17.73	-17.48/15.51	-18.87/18.62	-19.1/19.17	-16.53/18.49	-18.12/17.89	-17.68/18.37	-19.14/18.86	-18.06/18.71	-18.67/18.75	-18.62/17.51	
Theta (165°)	-19.26/17.63	-17.67/18.14	-18.11/18.75	-19.1/19.09	-17.9/18.27	-18.77/18.14	-17.76/17.94	-16.73/18.01	-14.42/13.69	-17.74/18.98	-19/19.01	-18.94/18.46	-18.79/17.55	-14.75/18.73	-18.64/17.51	-18.34/17.64	-19.17/18.86	-18.18/18.53	-18.34/19.13	-18.43/19.13	-18.43/19.13	-18.05/19	-18.62/17.58	-18.32/18.7	
Theta (172.5°)	-18.61/18.78	-18.64/18.14	-18.73/18.13	-17.39/18.73	-17.41/18.48	-17.44/18.63	-19.25/18.22	-19.3/18.69	-18.73/18.47	-18.1/19.37	-17.4/17.78	-18.45/17.44	-18.01/18.45	-18.26/18.94	-19/18.36	-17.34/18.62	-16.29/18.14	-18.76/17.46	-17.09/18.59	-18.02/18.2	-18.39/18.58	-18.95/17.5	-18.13/17.86	-18.56/18.87	
Theta (180°)	-16.46/17.04	-18.17/18.79	-18.02/17.76	-18.58/19.35	-18.71/17.81	-18.47/18.47	-18.05/17.93	-18.79/18.3	-17.2/18.19	-17.87/16.32	-17.85/19.4	-19.34/18.09	-19.11/17.48	-18.5/18.87	-17.41/18.89	-19.11/18.85	-17.66/17.61	-19.45/18.41	-17.45/18.94	-17.95/18.79	-18.92/14.65	-16.55/13.73	-13.81/14.52	-14.02/16.29	
Gain	Phi(7.5°)	Phi(15°)	Phi(22.5°)	Phi(30°)	Phi(37.5°)	Phi(45°)	Phi(52.5°)	Phi(60°)	Phi(67.5°)	Phi(75°)	Phi(82.5°)	Phi(90°)	Phi(97.5°)	Phi(105°)	Phi(112.5°)	Phi(120°)	Phi(127.5°)	Phi(135°)	Phi(142.5°)	Phi(150°)	Phi(157.5°)	Phi(165°)	Phi(172.5°)	Phi(180°)	
Gain	0.07/0.75	0.15/0.75	0.30/0.75	0.45/0.75	0.60/0.75	0.75/0.75	0.90/0.75	1.05/0.75	1.20/0.75	1.35/0.75	1.50/0.75	1.65/0.75	1.80/0.75	1.95/0.75	2.10/0.75	2.25/0.75	2.40/0.75	2.55/0.75	2.70/0.75	2.85/0.75	3.00/0.75	3.15/0.75	3.30/0.75	3.45/0.75	
Theta (0°)	-7.95/9.49	-10.81/13.95	-18.76/18.22	-17.47/15.13	-11.43/10.23	-6.75/4.82	-3.48/3.02	-2.05/3.22	-2.02/1.61	-2.57/2.68	-2.97/4.2	-4.54/7.33	-6.83/9.03	-11.73/14.36	-19/18.1	-18.51/17.03	-12.63/9.05	-7.9/7	-5.87/5.25	-4.51/4.36	-4.18/4.65	-5/4.89	-6.51/9.97	-6.63/8.01	
Theta (7.5°)	-5.89/6.87	-8.04/10.65	-12.67/14.29	-15.55/15.29	-13.63/10.15	-9.3/7.68	-6.48/5.42	-4.64/4.71	-4.86/4.66	-5.27/5.29	-5.78/6.44	-7.03/7.19	-8.41/11.7	-10.68/16.18	-18.43/17.74	-12.33/9.62	-6.91/4.5	-3.27/2.48	-2.1/2.49	-1.55/1.85	-1.46/2.38	-2.41/2.82	-3.34/3.77	-4.57/9.45	
Theta (15°)	-4.17/4.41	-4.4/3.3	-3.69/3.78	-3.97/5.18	-7.95/9.04	-13.96/13.34	-11.14/9.65	-7.21/6.07	-6.58/5.86	-6.97/6.42	-6.48/6.85	-4.79/4.27	-5.85/3.73	-7.51/10.09	-12.53/14.59	-9.33/6.58	-4.26/2.64	-1.64/1.53	-1.82/2.35	-2.77/3.47	-3.62/3.12	-3/3.19	-2.66/3.24	-3.36/3.33	
Theta (22.5°)	-4.8/5.55	-4.32/3.63	-2.78/3.05	-3.56/5.27	-7.63/13.28	-18.18/17.33	-12.23/9.37	-5.75/4.81	-3.43/2.97	-2.69/2.85	-3.45/3.55	-3.25/1.8	-1.21/2.66	-5.76/7.64	-8.22/7.13	-4.35/2.7	-1.44/1.01	-0.5/0.88	-2.55/4.46	-5.62/6.47	-3.88/2.74	-1.23/0.94	-0.44/1.42	-2.87/3.94	
Theta (30°)	-0.99/3.13	-2.65/1.25	-1.06/2.83	-4.18/5																					







# Radiated Composite Gain Data\_Radio 4\_6GHz\_4TX

# Appendix F

Theta	Phi(125°)	Phi(120°)	Phi(115°)	Phi(110°)	Phi(105°)	Phi(100°)	Phi(95°)	Phi(90°)	Phi(85°)	Phi(80°)	Phi(75°)	Phi(70°)	Phi(65°)	Phi(60°)	Phi(55°)	Phi(50°)	Phi(45°)	Phi(40°)	Phi(35°)	Phi(30°)	Phi(25°)	Phi(20°)	Phi(15°)	Phi(10°)	Phi(5°)	Phi(0°)		
Theta(125°)	-3.63/-3.69	-5.57/-6.36	-4.98/-4.7	-3.81/-6.45	-3.73/-3.25	-1.64/-3.64	-3.32/-3.21	-4.25/-5.66	-6.68/-5.22	-4.09/-7.54	-6.72/-9.29	-14.41/-11.01	-12.35/-13.39	-13.89/-12.3	-6.98/-5.22	-3.99/-11.8	-9.34/-11.19	-7.25/-10.04	-7.66/-6.88	-12.29/-18.01	-5.73/-18.97	-8.45/-7.51	-7.73/-9.5	-11.97/-5.23				
Theta(120°)	-3.85/-5.6	-6.03/-6.57	-7.19/-8.31	-6.02/-7.67	-5.49/-2.57	-4.22/-5.43	-3.35/-4	-6.34/-5.35	-4.9/-5.63	-9.04/-6.24	-9.54/-9.07	-18.66/-17.53	-12.63/-13.49	-12.81/-16.01	-13.21/-12.71	-6.47/-17.02	-10.62/-6.86	-9.14/-9.62	-13.08/-12.39	-9.2/-18.75	-11.54/-18.58	-18.87/-12.27	-7.28/-14.24	-8.44/-7.57				
Theta(115°)	-7.14/-9.68	-13.91/-16.38	-16.43/-12.87	-7.15/-8.84	-6.65/-3.96	-4.57/-5.23	-5.45/-4.51	-7.1/-9.39	-5.38/-6.06	-13.9/-9.98	-10.59/-12.47	-10.78/-13.5	-14.66/-13.97	-10.54/-11.05	-14.49/-15.87	-17.46/-14.95	-12.85/-13.54	-15.93/-16.46	-10.36/-18.25	-13.6/-18.32	-18.88/-18.42	-17.94/-18.89	-12.3/-18.33	-12.64/-7.04				
Theta(110°)	-10.64/-13.23	-18.45/-18.15	-17.29/-17.45	-10.12/-6.32	-6/-6.03	-5.12/-2.86	-4.83/-8.39	-17.92/-10.75	-7.13/-6.22	-13.81/-11.15	-12.68/-13.09	-12.58/-16.46	-19.15/-16.94	-11.59/-7.84	-12.46/-16.21	-18.69/-12.09	-15.73/-15.02	-16.97/-10.18	-8.61/-12.64	-7.43/-19.23	-11.9/-15.34	-19.14/-11.74	-8.53/-15.96	-11.2/-18.45				
Theta(105°)	-11.15/-15.67	-14.36/-19.1	-16.25/-9.14	-7.75/-6.6	-4.92/-5.23	-4.56/-4.3	-4.79/-5.85	-8.95/-12.48	-8.61/-9.64	-14.54/-19.21	-15.47/-18.56	-18.96/-18.68	-16.99/-16.99	-17.94/-13.52	-16.04/-18.98	-14.16/-17.72	-9.29/-10.22	-9.21/-7.18	-7.86/-10.65	-16.21/-16.52	-14.77/-18.13	-14.32/-9.27	-11.14/-14.64	-10.16/-13.2				
Theta(100°)	-18.19/-18.26	-15.84/-13.12	-10.8/-8.62	-7.35/-7.95	-7.28/-6.51	-6.01/-5.72	-7.7/-7.43	-8.59/-6.64	-10.76/-13	-12.54/-12.29	-11.38/-14.25	-15.28/-19.03	-18.8/-13.57	-12.57/-9.47	-18.09/-18.23	-17.56/-18.45	-19.06/-18.67	-17.89/-15.15	-13.24/-14.75	-15.29/-18.95	-14.8/-12.32	-16.25/-17.45	-11.98/-16.53	-12.24/-17.38				
Theta(95°)	-16.22/-15.33	-13.46/-13.48	-13.25/-8.53	-9.04/-7.95	-8.13/-7.9	-7.84/-7.9	-9.14/-6.53	-7.8/-9.91	-14.49/-11.51	-15.12/-17.78	-17.89/-14.72	-13.67/-13.45	-12.4/-14.21	-15.92/-18.08	-18.64/-18.43	-17.82/-15.02	-10.66/-9.22	-11.79/-14.57	-16.26/-18.25	-18.16/-17.93	-16.9/-18.21	-15.9/-17.89	-14.61/-15.89	-18.56/-18.04				
Theta(90°)	-10.52/-10.52	-10.23/-10.3	-10.07/-9.83	-8.87/-6.39	-6.15/-5.76	-6.48/-8.3	-8.95/-10.22	-11.94/-12.14	-14.04/-18.07	-15.13/-13.55	-17.8/-18.36	-18.56/-14.11	-14.6/-16.5	-13.66/-13.77	-16.26/-16	-9.82/-10.81	-14.71/-17.48	-18.72/-12.63	-14.4/-13.69	-18.26/-17.78	-17.93/-18.08	-16.07/-14.98	-12.81/-12.22	-14.84/-13.35				
Theta(85°)	-15.35/-11.33	-10.79/-9.09	-7.14/-7.31	-7.65/-7.15	-7.1/-8.73	-9.89/-10.87	-11.45/-11.5	-12.24/-11.8	-12.89/-15.19	-16.47/-17.94	-19.12/-18.79	-18.46/-18.23	-18.57/-17.5	-13.89/-11.48	-12.82/-14.32	-17.17/-18.45	-18.3/-18.56	-17.87/-18.3	-19.14/-18.53	-18.99/-17.9	-17.46/-16.86	-18.28/-19.51	-18.16/-19.41	-18.03/-15.54				
Theta(80°)	-17.12/-16.76	-15.09/-15.11	-12.99/-12.65	-10.34/-10.08	-9.13/-7.32	-7.54/-7.69	-7.72/-9.08	-7.66/-8.84	-11.12/-9.51	-11.77/-15.59	-14.74/-14.56	-17.35/-14.98	-16.67/-18.98	-19.61/-17.02	-16.82/-14.53	-12.53/-10.82	-9.55/-10.95	-10.42/-9.91	-10.53/-8.99	-8.47/-8.67	-11.5/-13.69	-15.29/-15.28	-18.44/-17.77	-19.46/-18.92				
Freq(Hz)	6.995GPol.	Phi/Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Phi(0°)/Phi(7.5°)	Phi(15°)/Phi(22.5°)	Phi(30°)/Phi(37.5°)	Phi(45°)/Phi(52.5°)	Phi(60°)/Phi(67.5°)	Phi(75°)/Phi(82.5°)	Phi(90°)/Phi(97.5°)	Phi(105°)/Phi(112.5°)	Phi(120°)/Phi(127.5°)	Phi(135°)/Phi(142.5°)	Phi(150°)/Phi(157.5°)	Phi(165°)/Phi(172.5°)	Phi(180°)/Phi(187.5°)	Phi(195°)/Phi(202.5°)	Phi(210°)/Phi(217.5°)	Phi(225°)/Phi(232.5°)	Phi(240°)/Phi(247.5°)	Phi(255°)/Phi(262.5°)	Phi(270°)/Phi(277.5°)	Phi(285°)/Phi(292.5°)	Phi(300°)/Phi(307.5°)	Phi(315°)/Phi(322.5°)	Phi(330°)/Phi(337.5°)	Phi(345°)/Phi(352.5°)				
Theta(0°)	-2.28/-1.76	-2.58/-3.36	-3.51/-4.8	-6.07/-8.48	-10.04/-13.59	-18.73/-18.47	-16.66/-10.41	-7.51/-5.38	-4.41/-3.52	-2.82/-2.27	-1.79/-1.66	-1.84/-2.16	-2.56/-2.89	-3.3/-4.89	-7.17/-7.73	-9.17/-11.89	-12.5/-18.06	-17.14/-15.21	-12.35/-11.96	-9.69/-7.48	-6.82/-5.72	-4.07/-3.88	-2.99/-2.49	-2.55/-2.12				
Theta(7.5°)	-3.49/-4.14	-4.44/-5.87	-7.08/-6.79	-6.45/-8.6	-11.1/-12.13	-14.56/-18.7	-16.41/-15.84	-10.12/-7.85	-7.45/-5.33	-3.48/-3.14	-2.83/-2.6	-2.39/-1.68	-1.56/-1.42	-1.71/-2.46	-3.52/-5.01	-6.49/-9.51	-13.67/-17.45	-18.14/-14.58	-10.57/-8.02	-6.22/-4.73	-3.63/-2.99	-2.52/-2.42	-2.18/-2.12	-2.69/-2.77				
Theta(15°)	-2.58/-2.56	-2.21/-2.54	-2.74/-4.15	-3.94/-5.9	-9.76/-13.97	-16.85/-17.89	-15.57/-13.63	-11.61/-9.11	-7.56/-4.41	-1.42/-0.71	-1.45/-2.41	-2.76/-1.99	-1.09/-0.65	-1.22/-1.63	-2.52/-3.6	-3.8/-5.45	-9.58/-16.45	-18.77/-10.1	-7.32/-5.44	-4.61/-4.65	-4.12/-3.87	-3.04/-1.8	-1.57/-1.04	-1.79/-1.48				
Theta(22.5°)	-1.8/-2.78	-3.08/-3.82	-5.3/-7.68	-13.43/-18.88	-18.07/-18.03	-18.38/-18.93	-18.76/-15.48	-14.63/-12.66	-10.18/-10.53	-4.82/-2.23	-2.11/-2.73	-1.94/-0.68	-0.91/-1.84	-3.13/-3.9	-3.25/-3.79	-5.15/-7.72	-10.78/-15.14	-15.4/-9.35	-6.34/-4.58	-4.06/-4.01	-4.58/-4.79	-4.62/-2.59	-1.4/-0.66	-0.36/-0.62				
Theta(30°)	-2.14/-3.3	-4.53/-3.52	-3.05/-5.41	-6.67/-7.66	-8.69/-9.94	-11.84/-15.67	-16.27/-19.14	-17.82/-14.94	-9.6/-4.41	-2.86/-2.9	-1.31/-1.39	-1.67/-1.07	-1.47/-1.77	-1.87/-2.95	-5.49/-7.59	-9.34/-10.57	-10.88/-13.67	-15.66/-18.21	-10.59/-4.96	-4.01/-4.06	-5.51/-7.08	-6.16/-4.1	-3.2/-1.66	-1.51/-1.41				
Theta(37.5°)	-2.69/-5.52	-6.99/-6.45	-5.16/-7.63	-7.71/-7.78	-11.4/-13.8	-13.73/-17.95	-18.09/-16.8	-18.32/-15.32	-11.24/-5.51	-3.71/-2.78	-0.95/-1.55	-3.57/-1.67	-1.06/-1.29	-2.08/-4.46	-6.42/-9.24	-10.82/-9.27	-17.75/-11.81	-19.98/-18.62	-11.65/-6.57	-4.62/-4.92	-5.38/-6.97	-7.23/-4.03	-3.61/-2.36	-0.56/-1.23				
Theta(45°)	-3.26/-7.65	-10.62/-9.19	-9.44/-8.45	-9.9/-16.13	-17.79/-18.48	-18.82/-18.13	-17.61/-17.37	-17.69/-12.32	-10.55/-12.47	-4.64/-4.8	-4.97/-2.69	-5.3/-5.64	-3.72/-2.73	-1.92/-3.11	-4.12/-8.19	-12.21/-18.87	-15.72/-16.13	-18.64/-14.52	-11.93/-8.97	-5.94/-7.92	-6.08/-4.92	-5.14/-2.09	-1.56/-1.61	-0.48/-2.36				
Theta(52.5°)	-4.21/-9.01	-11.18/-15.21	-14.4/-11.77	-14.27/-13.02	-16.19/-19.1	-18.04/-16.99	-14.49/-18.55	-16.29/-11.23	-11.08/-9.06	-7.21/-6.5	-5.37/-8.6	-5.48/-2.47	-2.26/-3.58	-4.06/-3.12	-3.4/-7.59	-10.67/-15.91	-17.8/-18.95	-16.62/-14.17	-19.03/-17.69	-9.95/-8.92	-6.19/-2.95	-3.48/-1.56	0.36/-1.4	-1.2/-2.32				
Theta(60°)	-6.84/-12.46	-16.96/-17.1	-14.54/-15.08	-19.27/-12.52	-15.68/-18.06	-18.67/-19.22	-14.77/-19.83	-12.37/-17.42	-11.31/-10.9	-8.15/-8.15	-8.42/-6.45	-6.29/-3.68	-4.27/-6.13	-7.23/-13.7	-18.5/-19.32	-18.05/-16.5	-16.79/-18.26	-17.61/-16.46	-6.79/-7.16	-5.38/-3.41	-1.88/-0.03	0.63/-1.01	-2.91/-4.6					
Theta(67.5°)	-8.06/-10.04	-14.15/-19.1	-18.5/-14.47	-18.24/-11.83	-18.04/-19.7	-18.98/-17.18	-14.03/-17.79	-18.46/-18.57	-12.74/-11.77	-14.57/-9.62	-4.95/-7.81	-5.05/-3.64	-1.54/-1.22	-1.42/-4.33	-11.23/-13.74	-13.28/-18.38	-17.28/-18.35	-11.73/-17.92	-13.76/-13.13	-7.67/-10.07	-8.67/-2.95	-1.32/-0.05	-0.46/-2.45	-5.32/-6.69				
Theta(75°)	-9.64/-10.93	-17.73/-17.79	-13.22/-11.65	-18.4/-10.85	-16.95/-17.97	-19.03/-18.32	-13.67/-14.15	-17.34/-18.91	-13.43/-12.24	-13.67/-13.5	-6.35/-8.65	-6.1/-8.19	-4.36/-0.92	0.31/-1.03	-9.72/-12.13	-9.3/-13.13	-18.04/-18.99	-12.29/-13.71	-7.02/-8.27	-14.02/-18.46	-11.08/-4.55	-1.45/-0.79	-1.66/-5.92	-7.01/-11.06				
Theta(82.5°)	-11.21/-14.4	-14.94/-12.92	-11.56/-11.94	-14.87/-12.13	-14.76/-15.15	-18.79/-18.73	-13.04/-18.93	-17.2/-14.13	-12.85/-11.31	-11.53/-18.73	-10.11/-7.56	-6.75/-18.32	-5.07/-1.21	-0.31/-1.82	-6.37/-17.24	-12.72/-7.88	-15.09/-18.74	-9.58/-13.56	-6.66/-7.78	-18.53/-16.12	-9.19/-4.11	-2.47/-2.17	-5.04/-12.97	-9.61/-13.54				
Theta(90°)	-15.8/-17.2	-10.71/-9.3	-7.9/-9.91	-14.29/-12.51	-13.89/-14.58	-18.44/-15.92	-18.7/-18.9	-18.49/-14.18	-12.78/-10.52	-8.01/-9.97	-11.09/-7.66	-6.31/-7.47	-18.38/-6.33	-2.26/-1.13	-3.36/-11.29	-14.17/-9.3	-15.45/-18.85	-8.77/-12.47	-8.5/-19.45	-11.43/-8.15	-7.62/-4.18	-4.33/-4.08	-9.67/-17.84	-14.91/-17.84				
Theta(97.5°)	-16.33/-11.96	-8.08/-7.09	-6.19/-9.32	-15.39/-13.39	-18.56/-14.73	-19.1/-12.86	-18.11/-19.07	-17.96/-13.34	-12.54/-8.26	-6.38/-6.38	-7.22/-7.2	-6.02/-5.77	-18.58/-8.03	-3.78/-3.06	-2.62/-6.33	-17.5/-11.04	-12.54/-18.08	-11.49/-10.01	-14.72/-10.89	-6.69/-7.96	-6.48/-5.29	-5.37/-2.33	-1.1/-17.84	-19.25/-17.87				
Theta(105°)	-11.44/-8.14	-7.95/-6.78	-6.29/-8.23	-12.09/-18.71	-18.68/-17.47	-17.9/-15.01	-19.15/-14.55	-14.88/-12.56	-13.47/-7.71	-6.09/-6.36	-7.19/-5.71	-8.14/-4.08	-6.25/-14.15	-12.57/-6.94	-4.38/-3.64	-11.58/-19.09	-15.28/-15.75	-16.14/-15.35	-9.43/-9.92	-6.98/-8.27	-2.97/-8.69	-7.08/-15.98	-15.94/-14.86	-14.31/-13.02				
Theta(112.5°)	-8.07/-5.83	-5.99/-6.29	-6.9/-10.74	-12.34/-17.17	-19.1/-16.68	-19.31/-17.93	-18.79/-18.31	-19.02/-11.54	-9.86/-8.79	-7.3/-3.81	-6.37/-5.81	-8.2/-6.01	-6.13/-11.41	-18.71/-17.39	-10.37/-5.42	-9.71/-18.09	-12.54/-11.67	-11.48/-12.01	-8.87/-7.98	-13.18/-8.88	-8.97/-15.05	-13.22/-13.48	-11.37/-11.5	-13.09/-9.81				
Theta(120°)	-6.45/-6.57	-6.8/-6.29	-6.82/-9.22	-15.42/-16.65	-18.38/-12.41	-15.02/-18.48	-18.16/-14.94	-17.56/-11.87	-12.69/-11.36	-6.26/-4.9	-5.49/-6.42	-7.05/-8.47	-6.38/-8.63	-15.32/-18.42	-17.91/-8.23	-9.48/-12.54	-19.12/-17.05	-18.74/-10.93	-11.85									



# Radiated Composite Gain Data\_Scanning Radio 5\_2.4GHz, 5GHz UNII 1~4, 6GHz and Radio 6 Bluetooth

## Appendix G

Freq(Hz)	2.45G	5.2G	5.3G	5.6G	5.785G	5.885G	6.175G	6.475G	6.695G	6.995G
Scan Ant. 1 Max Gain (dBi)	2.17	2.74	3.39	4.78	3.51	4.94	3.96	4.67	4.31	4.8
Scan Ant. 2 Max Gain (dBi)	1.83	5.46	4.17	6.68	6.06	6.03	5.1	4.49	4.37	4.7
BT Ant. 3 Max Gain (dBi)	2.91									
Ant. 1 Polarization/ $\theta$ (°)/ $\phi$ (°)	Theta/60/22.5	Theta/67.5/52.5	Theta/52.5/232.5	Theta/60/127.5	Theta/60/127.5	Theta/67.5/75	Theta/82.5/232.5	Theta/90/240	Theta/82.5/240	Theta/82.5/240
Ant. 2 Polarization/ $\theta$ (°)/ $\phi$ (°)	Theta/52.5/82.5	Theta/75/52.5	Theta/75/52.5	Theta/67.5/52.5	Theta/67.5/52.5	Theta/75/45	Theta/67.5/157.5	Theta/75/37.5	Theta/67.5/67.5	Theta/75/30
Ant. 3 Polarization/ $\theta$ (°)/ $\phi$ (°)	Theta/60/120									

















Radiated Composite Gain Data\_ Scanning Radio 5\_2.4GHz, 5GHz UNII 1~4, 6GHz and Radio 6 Bluetooth

Table with columns for frequency (Theta, Phi) and gain data for various frequencies including 5.6GHz, 5.8GHz, 5.9GHz, and 6.0GHz. It includes sub-headers for gain and theta/phi angles.



# Radiated Composite Gain Data\_Scanning Radio 5\_2.4GHz, 5GHz UNII 1~4, 6GHz and Radio 6 Bluetooth

## Appendix G

Freq(Hz)	Phi(0°)	Phi(15°)	Phi(30°)	Phi(45°)	Phi(60°)	Phi(75°)	Phi(90°)	Phi(105°)	Phi(120°)	Phi(135°)	Phi(150°)	Phi(165°)	Phi(180°)	Phi(195°)	Phi(210°)	Phi(225°)	Phi(240°)	Phi(255°)	Phi(270°)	Phi(285°)	Phi(300°)	Phi(315°)	Phi(330°)	Phi(345°)
Theta(°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345
Gain	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345
Theta(°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345
Gain	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270	285	300	315	330	345



# Radiated Composite Gain Data\_Scanning Radio 5\_2.4GHz, 5GHz UNII 1~4, 6GHz and Radio 6 Bluetooth

# Appendix G

Theta	(157.5)	(165)	(172.5)	(180)	(187.5)	(195)	(202.5)	(210)	(217.5)	(225)	(232.5)	(240)	(247.5)	(255)	(262.5)	(270)	(277.5)	(285)	(292.5)	(300)	(307.5)	(315)	(322.5)	(330)	(337.5)	(345)
Gain	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Freq(Hz)	6.4750Pol.	PhiAnt.2	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+



# Radiated Composite Gain Data\_Scanning Radio 5\_2.4GHz, 5GHz UNII 1~4, 6GHz and Radio 6 Bluetooth

## Appendix G

Theta	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°	165°	170°	175°	180°																																																																																																																																																																																																	
Gain (0°)	2.45GPol	PhiAnt 3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+																																																																																																																																																																																																	
Gain	Phi(7°)Phi(7.5°)	Phi(15°)Phi(22.5°)	Phi(30°)Phi(37.5°)	Phi(45°)Phi(52.5°)	Phi(60°)Phi(67.5°)	Phi(75°)Phi(82.5°)	Phi(90°)Phi(97.5°)	Phi(105°)Phi(112.5°)	Phi(120°)Phi(127.5°)	Phi(135°)Phi(142.5°)	Phi(150°)Phi(157.5°)	Phi(165°)Phi(172.5°)	Phi(180°)Phi(187.5°)	Phi(195°)Phi(202.5°)	Phi(210°)Phi(217.5°)	Phi(225°)Phi(232.5°)	Phi(240°)Phi(247.5°)	Phi(255°)Phi(262.5°)	Phi(270°)Phi(277.5°)	Phi(285°)Phi(292.5°)	Phi(300°)Phi(307.5°)	Phi(315°)Phi(322.5°)	Phi(330°)Phi(337.5°)	Phi(345°)Phi(352.5°)																																																																																																																																																																																																														
Gain	-1.95-2.42	-3.03-3.77	-4.79-6.11	-7.71-9.88	-12.36-15.44	-17.21-15.3	-22.22-9.81	-27.86-4.64	-33.71-2.92	-39.22-2.71	-44.44-2.26	-49.33-2.81	-53.93-3.68	-58.33-6.98	-62.55-9.57	-66.59-13.38	-70.47-17.61	-74.21-22.27	-77.83-27.35	-81.27-32.92	-84.57-38.98	-87.74-45.53	-90.78-52.67	-93.71-60.40	-96.54-68.82	-99.26-77.84	-101.89-87.45	-104.44-97.16	-106.91-107.07	-109.30-117.18	-111.61-127.50	-113.86-138.04	-116.05-148.61	-118.18-159.80	-120.26-171.74	-122.29-184.84	-124.28-199.19	-126.19-214.76	-128.02-231.26	-129.78-248.50	-131.53-266.60	-133.23-285.98	-134.89-306.76	-136.51-328.74	-138.09-352.19	-139.63-378.94	-141.14-406.00	-142.81-447.45	-144.54-496.39	-146.33-553.04	-148.18-616.94	-150.09-752.81	-151.87-905.85	-153.71-1085.08	-155.61-1308.73	-157.56-1581.04	-159.51-1931.35	-161.46-2391.95	-163.41-3005.50	-165.37-3759.95	-167.34-4692.50	-169.31-6455.50	-171.28-9445.00	-173.23-13545.00	-175.18-19445.00	-177.14-27645.00	-179.09-49445.00	-181.05-92445.00	-183.01-164445.00	-184.96-301445.00	-186.91-541445.00	-188.87-991445.00	-190.82-1784445.00	-192.78-3314445.00	-194.73-6084445.00	-196.68-11184445.00	-198.63-20044445.00	-200.58-36644445.00	-202.53-66144445.00	-204.48-11944445.00	-206.43-22044445.00	-208.38-40944445.00	-210.33-77344445.00	-212.28-13944445.00	-214.23-26044445.00	-216.18-57644445.00	-218.13-12444445.00	-220.08-27944445.00	-222.03-59944445.00	-223.98-11244445.00	-225.93-24144445.00	-227.88-53844445.00	-229.83-11844445.00	-231.78-26144445.00	-233.73-58944445.00	-235.68-13144445.00	-237.63-28944445.00	-239.58-63944445.00	-241.53-13844445.00	-243.48-30444445.00	-245.43-67944445.00	-247.38-13944445.00	-249.33-30444445.00	-251.28-67944445.00	-253.23-13944445.00	-255.18-30444445.00	-257.13-67944445.00	-259.08-13944445.00	-261.03-30444445.00	-262.98-67944445.00	-264.93-13944445.00	-266.88-30444445.00	-268.83-67944445.00	-270.78-13944445.00	-272.73-30444445.00	-274.68-67944445.00	-276.63-13944445.00	-278.58-30444445.00	-280.53-67944445.00	-282.48-13944445.00	-284.43-30444445.00	-286.38-67944445.00	-288.33-13944445.00	-290.28-30444445.00	-292.23-67944445.00	-294.18-13944445.00	-296.13-30444445.00	-298.08-67944445.00	-300.03-13944445.00	-301.98-30444445.00	-303.93-67944445.00	-305.88-13944445.00	-307.83-30444445.00	-309.78-67944445.00	-311.73-13944445.00	-313.68-30444445.00	-315.63-67944445.00	-317.58-13944445.00	-319.53-30444445.00	-321.48-67944445.00	-323.43-13944445.00	-325.38-30444445.00	-327.33-67944445.00	-329.28-13944445.00	-331.23-30444445.00	-333.18-67944445.00	-335.13-13944445.00	-337.08-30444445.00	-339.03-67944445.00	-340.98-13944445.00	-342.93-30444445.00	-344.88-67944445.00	-346.83-13944445.00	-348.78-30444445.00	-350.73-67944445.00	-352.68-13944445.00	-354.63-30444445.00	-356.58-67944445.00	-358.53-13944445.00	-360.48-30444445.00	-362.43-67944445.00	-364.38-13944445.00	-366.33-30444445.00	-368.28-67944445.00	-370.23-13944445.00	-372.18-30444445.00	-374.13-67944445.00	-376.08-13944445.00	-378.03-30444445.00	-380.03-67944445.00	-382.03-13944445.00	-384.03-30444445.00	-386.03-67944445.00	-388.03-13944445.00	-390.03-30444445.00	-392.03-67944445.00	-394.03-13944445.00	-396.03-30444445.00	-398.03-67944445.00	-400.03-13944445.00	-402.03-30444445.00	-404.03-67944445.00	-406.03-13944445.00	-408.03-30444445.00	-410.03-67944445.00	-412.03-13944445.00	-414.03-30444445.00	-416.03-67944445.00	-418.03-13944445.00	-420.03-30444445.00	-422.03-67944445.00	-424.03-13944445.00	-426.03-30444445.00	-428.03-67944445.00	-430.03-13944445.00	-432.03-30444445.00	-434.03-67944445.00	-436.03-13944445.00	-438.03-30444445.00	-440.03-67944445.00	-442.03-13944445.00	-444.03-30444445.00	-446.03-67944445.00	-448.03-13944445.00	-450.03-30444445.00	-452.03-67944445.00	-454.03-13944445.00	-456.03-30444445.00	-458.03-67944445.00	-460.03-13944445.00	-462.03-30444445.00	-464.03-67944445.00	-466.03-13944445.00	-468.03-30444445.00	-470.03-67944445.00	-472.03-13944445.00	-474.03-30444445.00	-476.03-67944445.00	-478.03-13944445.00	-480.03-30444445.00	-482.03-67944445.00	-484.03-13944445.00	-486.03-30444445.00	-488.03-67944445.00	-490.03-13944445.00	-492.03-30444445.00	-494.03-67944445.00	-496.03-13944445.00	-498.03-30444445.00	-500.03-67944445.00





Antenna Pattern\_Radio 1\_2.4GHz, Radio 2\_5GHz UNII 1~3

Appendix H

Table with 24 columns representing elevation angles from 7.5 to 180 degrees and rows representing frequency bands from 2.450 GHz to 5.60 GHz. Each cell contains numerical gain values.



Antenna Pattern\_Radio 1\_2.4GHz, Radio 2\_5GHz UNII 1~3

Appendix H

Main data table with columns for frequency, gain, and multiple antenna pattern measurements. Includes a 5GHz band section at the bottom.





# Antenna Pattern\_Radio 1\_2.4GHz, Radio 2\_5GHz UNII 1~3

# Appendix H

θ(°)	7.31~7.95	7.87~8.51	9.21~9.63	7.24~7.40	7.02~6.84	6.09~4.33	3.29~2.53	2.52~2.99	3.29~3.74	3.30~2.07	2.20~3.24	3.65~3.12	3.20~3.33	3.61~6.23	7.04~7.09	7.42~8.99	5.59~4.64	3.98~3.48	3.81~3.89	5.26~3.99	1.63~2.79	5.82~8.54	8.84~7.49	5.86~8.34	
θ(105°)	-9.28~9.76	-10.40~10.28	-12.38~10.99	-10.47~11.23	-10.14~9.23	-8.16~6.67	-6.48~5.76	-5.75~4.91	-4.60~5.55	-5.52~4.73	-5.14~5.66	-5.94~5.76	-6.69~3.97	-9.37~10.93	-8.11~7.71	-8.78~7.35	-7.90~9.24	-9.21~9.43	-8.20~8.14	-11.15~13.01	-14.57~10.38	-8.22~10.59	-14.57~10.38	-8.22~10.59	
θ(112.5°)	-11.65~12.38	-10.65~12.18	-13.92~11.13	-12.24~12.17	-12.52~10.96	-9.81~8.63	-8.76~8.86	-8.41~7.45	-7.40~7.82	-7.56~6.81	-6.50~6.90	-7.35~7.19	-7.97~8.82	-10.93~10.96	-15.11~12.69	-15.11~12.69	-15.11~12.69	-15.11~12.69	-15.11~12.69	-15.11~12.69	-15.11~12.69	-15.11~12.69	-15.11~12.69	-15.11~12.69	-15.11~12.69
θ(120°)	-15.48~11.84	-13.45~14.20	-13.96~13.64	-13.06~12.62	-13.94~13.59	-12.84~11.25	-10.39~9.82	-9.57~9.70	-9.30~8.83	-8.07~8.18	-8.25~9.25	-9.76~9.47	-10.78~11.56	-9.93~11.66	-11.74~11.94	-13.39~14.51	-10.95~8.39	-10.22~9.73	-11.65~10.20	-11.74~14.76	-10.12~9.14	-11.06~11.47	-12.40~13.43	-12.16~14.66	
θ(127.5°)	-15.42~13.72	-14.88~15.75	-15.80~13.99	-13.65~14.17	-15.19~15.13	-14.61~12.78	-11.50~9.74	-9.70~10.77	-10.97~11.41	-10.66~10.46	-11.17~12.52	-11.60~11.67	-13.26~12.53	-10.20~13.23	-15.70~12.56	-14.74~14.19	-14.39~12.11	-10.66~11.06	-11.92~12.06	-13.59~15.04	-10.78~11.22	-13.88~13.10	-15.30~15.11	-13.44~14.78	
θ(135°)	-15.01~14.59	-15.07~15.56	-15.64~13.85	-15.70~14.88	-15.30~15.65	-15.03~13.15	-11.89~11.61	-11.45~11.13	-12.22~13.67	-13.52~12.89	-11.46~13.26	-13.55~13.85	-14.29~13.70	-14.55~14.98	-15.25~14.06	-14.31~14.99	-15.11~15.47	-15.26~15.90	-15.86~15.45	-15.23~15.79	-15.04~15.87	-15.25~15.80	-14.40~15.60	-13.62~14.63	
θ(142.5°)	-13.95~14.34	-15.05~14.69	-15.34~15.53	-15.15~15.56	-16.19~14.15	-12.84~12.38	-12.08~12.24	-13.66~13.53	-12.96~14.13	-15.50~14.50	-13.61~12.81	-12.46~13.71	-13.88~14.45	-15.16~15.59	-14.34~14.14	-15.49~15.63	-14.43~13.78	-14.16~15.01	-15.79~15.35	-15.82~15.16	-14.07~14.44	-15.59~15.32	-15.92~14.87	-15.21~15.16	
θ(150°)	-12.99~13.61	-15.30~15.88	-15.42~15.49	-15.21~14.69	-15.40~14.97	-13.37~13.64	-14.09~13.26	-13.70~15.61	-15.29~13.54	-13.78~14.57	-14.28~15.13	-15.37~14.17	-13.96~15.13	-16.06~15.38	-15.69~14.87	-15.94~14.78	-14.57~13.56	-13.40~13.67	-14.25~15.26	-15.89~15.21	-14.91~16.02	-15.88~15.12	-15.30~14.61	-15.30~14.61	
θ(157.5°)	-15.64~15.93	-14.40~15.54	-15.59~15.95	-14.56~14.61	-14.99~15.95	-16.33~15.81	-15.03~15.95	-15.00~14.97	-15.25~14.97	-14.78~13.97	-15.16~15.41	-14.32~14.72	-14.73~15.11	-16.02~15.47	-15.99~14.92	-15.66~15.56	-15.48~15.17	-15.42~15.25	-15.14~15.65	-15.18~14.96	-16.06~14.73	-15.04~15.03	-15.17~15.12	-15.22~14.11	
θ(165°)	-15.37~15.50	-14.97~15.61	-15.45~15.26	-15.35~15.43	-15.33~15.01	-14.74~14.76	-15.57~15.28	-14.81~14.76	-15.37~15.11	-15.34~15.09	-16.00~15.86	-15.77~14.57	-15.74~14.92	-15.29~14.99	-15.27~15.57	-15.60~15.41	-15.04~15.27	-15.11~15.16	-14.95~15.14	-14.77~16.10	-15.35~16.05	-15.32~15.18	-15.06~15.47	-15.29~14.99	
θ(172.5°)	-15.82~15.76	-14.96~15.40	-15.23~15.10	-14.52~15.61	-14.81~15.30	-15.18~14.44	-15.14~15.01	-15.23~15.48	-15.12~15.81	-15.50~14.94	-16.15~15.27	-14.98~15.21	-15.13~15.87	-16.24~15.64	-15.57~14.58	-15.07~15.88	-15.35~15.24	-15.19~15.37	-15.31~14.20	-15.36~15.07	-14.72~15.02	-15.60~15.53	-15.25~15.37	-15.07~14.94	
θ(180°)	-14.94~15.32	-14.61~15.79	-15.46~14.52	-14.58~15.35	-15.62~15.88	-15.02~15.74	-15.52~15.09	-15.23~15.89	-15.73~15.54	-15.46~15.32	-14.90~15.44	-15.10~14.91	-15.30~14.63	-15.68~15.06	-14.89~15.12	-14.58~13.30	-13.61~14.24	-14.19~15.06	-14.19~15.06	-14.19~15.06	-14.19~15.06	-14.19~15.06	-14.19~15.06	-14.19~15.06	-14.19~15.06
Freq(Hz)	5.6GPaL	TotalAnt.3	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)	
θ(0°)	9.74~9.24	8.85~8.78	8.72~8.78	8.97~9.25	9.26~9.31	9.46~9.34	9.43~9.74	10.17~10.49	10.75~10.79	10.87~11.05	10.91~10.86	11.32~11.49	11.81~12.04	13.89~15.38	15.00~15.75	14.57~15.71	14.71~15.86	15.97~15.00	15.17~15.59	15.26~14.83	15.09~15.82	14.46~14.05	13.28~12.20	11.97~11.37	
θ(7.5°)	-14.58~13.88	-14.00~14.56	-14.21~13.68	-13.34~12.33	-11.88~12.33	-12.21~12.49	-13.02~13.18	-13.10~13.19	-12.33~11.46	-10.38~9.23	-8.47~7.73	-7.41~7.27	-6.74~5.91	-5.70~5.70	-6.62~5.66	-6.20~6.65	-7.08~7.28	-7.69~8.03	-8.46~8.96	-9.27~9.76	-10.24~10.65	-11.21~11.57	-12.12~13.20	-15.04~14.85	
θ(15°)	-11.30~12.01	-12.44~12.04	-11.07~10.99	-7.63~6.46	-6.07~5.94	-6.09~6.44	-7.47~8.48	-9.41~9.59	-8.78~7.70	-6.61~5.83	-5.02~4.28	-3.75~3.45	-3.34~3.42	-2.89~2.61	-2.77~3.14	-3.48~3.64	-3.81~4.24	-5.01~6.07	-7.42~8.53	-9.02~9.06	-8.93~8.66	-8.47~8.34	-9.04~11.85		
θ(22.5°)	-8.43~8.82	-8.31~7.07	-5.79~5.94	-5.39~5.19	-4.51~3.64	-3.58~3.56	-2.81~2.46	-2.92~2.40	-2.87~2.50	-2.90~4.90	-4.13~3.42	-2.31~2.60	-2.96~3.22	-3.56~3.12	-1.15~1.10	-2.27~3.00	-2.96~3.45	-4.12~4.04	-4.07~4.59	-4.74~5.69	-4.74~5.69	-4.74~5.69	-4.74~5.69	-4.74~5.69	
θ(30°)	-6.09~5.50	-4.48~2.78	-1.24~0.53	-0.58~0.73	-1.35~2.31	-3.42~3.66	-4.13~5.31	-7.16~7.86	-6.52~5.15	-4.38~3.50	-3.01~2.76	-2.35~2.00	-1.99~2.24	-2.81~3.19	-2.98~2.78	-2.51~2.44	-2.19~1.91	-2.23~3.00	-4.04~6.09	-8.73~8.16	-6.26~4.72	-3.40~2.56	-2.82~4.40	-5.87~6.03	
θ(37.5°)	-4.40~4.56	-4.50~3.87	-2.52~1.25	-0.29~0.37	-1.34~2.72	-4.03~1.46	-3.81~5.42	-6.64~8.31	-7.30~5.36	-4.33~3.68	-3.60~3.38	-2.45~1.28	-0.71~0.74	-1.58~2.58	-2.49~2.22	-1.89~2.22	-3.06~3.70	-4.17~5.05	-6.52~7.54	-7.10~5.71	-4.54~4.59	-4.74~5.35	-2.38~1.94	-2.66~3.63	
θ(45°)	-1.88~1.44	-1.36~2.36	-3.50~3.13	-2.35~2.22	-1.83~1.10	-1.73~0.95	-2.86~4.65	-6.29~6.01	-5.04~4.06	-3.01~2.02	-1.01~1.00	0.82~1.10	0.26~1.04	0.92~0.94	-1.21~2.02	-0.95~0.56	-0.81~2.10	-0.30~3.66	-4.01~3.66	-4.54~4.32	-2.81~2.30	-4.46~3.02	-1.66~1.59		
θ(52.5°)	-3.13~1.57	-0.35~1.03	-1.94~2.52	-2.80~2.75	-1.91~1.06	-2.02~4.27	-5.15~5.27	-5.04~4.77	-4.63~3.58	-2.82~1.95	-0.93~2.04	0.98~1.56	2.34~2.05	0.23~1.28	-1.78~1.73	-1.25~0.73	0.58~0.38	-3.01~6.06	-5.83~2.98	-2.20~2.51	-1.95~0.79	-1.39~3.11	-5.36~7.89	-5.28~2.56	
θ(60°)	-2.28~1.62	-0.16~0.40	-2.37~5.50	-7.85~9.12	-6.56~6.63	-5.42~6.49	-5.52~3.31	-2.35~2.20	-2.87~2.14	-1.30~0.67	0.23~0.93	0.91~0.70	1.68~2.40	1.48~1.15	-0.10~0.86	-1.93~2.59	-0.09~0.56	-1.42~2.51	-2.53~1.45	-1.57~3.47	-2.77~0.93	-1.35~2.37	-3.91~2.48	-3.50~3.75	
θ(67.5°)	-0.59~0.26	0.84~0.52	-1.38~4.02	-7.25~8.30	-5.91~4.46	-2.72~0.98	-0.50~0.99	0.95~0.40	0.23~1.05	0.53~0.64	1.31~1.49	0.82~0.23	1.09~1.73	0.64~2.09	0.75~0.02	-0.57~0.49	-1.34~0.65	-0.02~0.51	-0.36~0.40	-0.04~2.28	-1.26~0.20	-0.79~2.81	-2.26~0.03	-0.62~1.58	
θ(75°)	-0.20~0.24	1.13~0.37	-1.02~2.76	-4.64~3.73	-3.32~2.16	0.16~1.73	2.18~2.38	2.24~1.34	0.11~0.03	0.65~0.77	0.83~0.76	0.12~0.79	-0.36~0.40	-0.21~0.17	0.60~0.11	-1.61~6.66	-3.17~0.94	0.20~0.62	0.59~1.17	0.29~1.67	-0.43~0.79	-0.62~3.01	-2.30~0.48	0.52~1.19	
θ(82.5°)	-1.37~1.15	-0.34~1.51	-2.25~3.68	-4.67~3.67	-3.59~2.38	0.21~1.17	1.42~1.74	1.88~1.17	-0.23~0.58	-0.16~0.25	-0.06~1.40	-0.90~1.29	-1.15~1.02	-1.06~0.89	-0.26~1.30	-2.93~7.51	-4.64~1.36	0.29~0.51	0.63~1.05	-0.03~1.42	-0.09~0.73	-1.25~3.89	-3.21~3.15	-0.57~2.23	
θ(90°)	-3.04~3.08	-2.47~4.30	-4.10~6.31	-6.40~5.08	-5.17~3.59	-10.26~9.24	-8.27~8.62	0.13~0.43	0.13~0.43	-1.75~2.35	-1.74~1.61	-1.56~1.76	-1.27~2.33	-2.87~3.31	-2.77~2.56	-1.21~2.52	-0.84~0.76	-6.35~3.15	-1.10~0.53	-0.56~0.02	-1.25~2.65	-1.10~3.44	-2.59~5.61	-5.05~3.59	-2.51~4.64
θ(97.5°)	-5.27~6.03	-5.12~6.81	-6.98~9.31	-7.78~7.49	-7.28~5.36	-2.99~4.33	-3.45~2.51	-1.62~2.28	-3.92~4.74	-4.07~3.76	-3.95~3.72	-4.31~4.70	-3.76~5.56	-5.32~4.69	-3.29~4.93	-7.09~10.37	-8.21~6.85	-4.00~3.09	-3.20~2.81	-3.52~6.02	-3.85~2.97	-5.58~8.89	-8.34~6.18	-5.26~7.48	
θ(105°)	-7.45~9.01	-7.71~9.61	-9.73~11.43	-9.55~10.85	-8.75~7.75	-6.11~6.80	-6.04~4.44	-3.81~5.62	-6.90~6.66	-6.31~6.12	-6.22~6.41	-5.97~5.99	-5.86~6.96	-7.13~7.53	-6.72~6.89	-8.17~11.52	-10.94~9.94	-7.50~6.79	-7.22~7.32	-7.24~12.57	-9.68~8.48	-10.04~14.49	-12.39~8.96	-7.08~10.12	
θ(112.5°)	-9.43~11.33	-11.10~12.77	-13.27~13.63	-12.44~13.38	-10.28~9.24	-9.79~10.32	-8.21~8.62	-6.97~6.55	-8.52~8.45	-8.60~7.91	-8.09~9.01	-7.93~7.44	-8.78~8.98	-9.67~9.16	-9.13~9.88	-9.77~9.66	-9.05~13.14	-12.06~9.59	-10.18~14.22	-12.97~11.21	-9.09~13.39	-11.42~12.49	-11.42~12.49		
θ(120°)	-13.22~14.41	-14.56~14.50	-15.86~15.52	-14.49~13.88	-12.08~11.69	-9.99~10.07	-8.22~8.62	-6.93~8.80	-9.74~10.65	-10.21~9.48	-9.98~10.21	-10.77~11.57	-10.39~9.04	-10.49~11.04	-9.67~10.43	-11.88~13.53	-12.22~8.32	-9.35~9.33	-9.68~9.76	-10.54~12.79	-11.67~10				



# Antenna Pattern\_Radio 1\_2.4GHz, Radio 2\_5GHz UNII 1~3

# Appendix H

θ (50°)	-13.66/-10.68	-7.55/-8.23	-11.89/-15.81	-15.35/-10.61	-8.08/-8.07	-10.13/-11.31	-9.53/-11.43	-13.50/-9.88	-10.13/-12.76	-10.32/-11.99	-11.76/-10.88	-12.48/-9.38	-8.78/-13.90	-12.28/-12.25	-14.11/-14.68	-14.97/-12.22	-9.18/-10.43	-12.93/-12.04	-11.22/-10.35	-9.10/-7.04	-8.42/-14.45	-15.82/-13.65	-10.47/-12.58	-10.19/-7.80
θ (157.5°)	-9.74/-13.20	-13.00/-10.84	-9.86/-12.42	-15.51/-15.16	-13.71/-12.34	-10.87/-9.42	-9.82/-13.06	-14.51/-12.08	-13.97/-15.56	-15.20/-15.77	-14.95/-13.91	-14.28/-13.25	-13.58/-13.90	-15.07/-13.11	-10.65/-9.41	-8.72/-9.38	-10.96/-11.84	-12.89/-13.01	-12.52/-12.60	-11.57/-10.92	-11.29/-11.57	-11.11/-10.72	-10.09/-13.28	-14.70/-12.08
θ (165°)	-12.80/-14.09	-14.96/-13.59	-9.89/-8.58	-8.41/-9.26	-10.26/-10.30	-11.89/-13.59	-15.43/-15.32	-14.45/-14.89	-15.07/-14.14	-15.43/-15.71	-15.74/-12.16	-10.98/-10.60	-10.98/-10.60	-10.98/-10.60	-9.35/-9.44	-15.05/-12.88	-15.93/-15.31	-14.80/-15.03	-16.06/-15.23	-15.87/-15.00	-14.48/-12.74	-10.55/-10.06	-11.64/-13.94	-15.25/-14.21
θ (172.5°)	-12.31/-12.00	-12.01/-12.11	-13.33/-12.65	-11.89/-11.69	-11.39/-11.50	-11.74/-11.63	-12.12/-13.15	-13.82/-14.84	-15.16/-15.14	-14.77/-14.07	-13.55/-13.00	-12.12/-12.04	-11.65/-11.04	-10.73/-10.78	-11.85/-11.78	-10.93/-10.61	-9.54/-8.78	-8.92/-9.04	-8.54/-8.86	-8.72/-9.02	-9.31/-9.21	-10.12/-11.69	-12.93/-14.61	-15.38/-15.61
θ (180°)	-13.31/-13.37	-13.02/-13.33	-12.49/-10.37	-9.51/-9.06	-9.01/-9.62	-9.87/-10.45	-10.57/-10.66	-10.22/-9.36	-8.90/-8.81	-8.94/-9.13	-9.66/-10.60	-11.39/-12.29	-12.13/-12.01	-12.23/-12.81	-12.59/-11.98	-12.10/-11.96	-12.08/-12.82	-13.83/-12.60	-12.83/-12.60	-12.83/-12.51	-12.46/-12.99	-12.94/-12.87	-12.08/-11.08	-9.94/-9.81
Freq(Hz)	5.3GPol	TotalAnt.4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
θ (0°)	-11.43/-11.27	-12.19/-12.16	-12.81/-12.99	-13.55/-13.72	-13.77/-12.94	-13.03/-13.03	-12.45/-12.76	-11.92/-11.30	-10.92/-11.01	-10.64/-11.35	-11.52/-11.31	-11.08/-10.72	-10.38/-10.40	-10.94/-11.07	-11.38/-11.77	-11.23/-10.53	-11.04/-11.64	-11.02/-10.53	-9.93/-9.49	-9.31/-9.30	-8.80/-8.87	-9.20/-9.58	-9.96/-10.57	-11.30/-11.31
θ (7.5°)	-8.79/-8.89	-8.82/-8.10	-8.21/-8.46	-8.60/-8.32	-8.05/-7.39	-7.24/-7.26	-7.16/-7.27	-7.11/-7.08	-6.90/-6.58	-6.58/-7.01	-7.91/-8.41	-9.13/-9.65	-9.59/-9.12	-9.32/-9.78	-10.86/-12.78	-12.95/-12.43	-12.00/-11.98	-12.82/-14.54	-13.07/-11.58	-11.17/-10.59	-10.32/-10.08	-9.86/-9.72	-9.60/-9.36	-8.67/-8.21
θ (15°)	-6.87/-6.85	-6.56/-5.76	-5.40/-5.65	-5.97/-6.08	-6.04/-5.47	-4.68/-4.00	-3.24/-2.80	-2.54/-2.29	-1.86/-1.37	-0.91/-0.73	-0.69/-0.95	-1.55/-2.49	-3.69/-4.63	-4.89/-5.17	-5.86/-7.52	-9.94/-11.35	-11.20/-10.46	-10.33/-9.58	-8.36/-7.63	-6.94/-6.77	-6.17/-5.86	-5.57/-5.46	-5.34/-5.47	-5.67/-5.70
θ (22.5°)	-7.98/-9.29	-9.44/-9.16	-8.99/-9.02	-8.35/-7.11	-5.68/-4.30	-3.36/-2.54	-1.78/-1.37	-1.10/-0.97	-0.86/-0.46	-0.22/-0.18	-0.04/-0.29	-1.10/-2.55	-4.21/-4.79	-5.02/-5.79	-7.49/-10.65	-14.34/-15.81	-12.73/-10.07	-8.13/-6.62	-6.47/-6.35	-5.75/-5.47	-4.18/-4.44	-4.68/-4.89	-5.11/-5.35	-5.91/-6.42
θ (30°)	-2.96/-2.09	-2.09/-2.35	-3.31/-4.36	-4.19/-3.14	-2.34/-1.59	-0.89/-0.24	0.06/0.05	0.24/0.53	0.70/0.72	0.32/0.61	-1.52/-1.46	-1.24/-2.75	-5.99/-9.15	-10.78/-13.03	-13.67/-13.05	-11.52/-10.37	-9.95/-8.36	-6.15/-4.08	-2.44/-1.01	-0.27/-0.09	-0.72/-1.82	-2.61/-2.80	-3.34/-4.08	-4.25/-2.99
θ (37.5°)	0.73/1.07	0.29/0.38	-0.65/-0.91	-1.15/-1.60	-2.22/-2.09	-1.41/-0.97	-0.83/-0.72	-0.22/0.51	0.35/0.02	0.13/-0.45	-2.52/-1.60	-0.05/-0.70	-3.05/-4.95	-6.22/-7.25	-8.40/-6.22	-6.57/-5.99	-5.07/-3.75	-1.66/-0.09	0.38/0.79	1.27/1.96	2.18/1.55	0.57/0.48	0.25/-1.10	-1.78/-0.22
θ (45°)	1.20/0.75	-0.14/0.54	1.90/2.06	1.50/0.95	1.03/1.29	1.18/0.65	0.05/-0.31	-0.08/1.21	1.92/0.72	-0.36/-0.25	-1.95/-0.15	2.49/2.38	0.44/-0.24	-0.81/-1.73	-3.99/-2.08	-1.69/-2.43	-2.85/-2.34	-1.06/0.13	0.34/-0.08	-0.08/0.78	1.41/1.38	1.17/1.87	2.98/2.69	1.36/1.09
θ (52.5°)	2.51/1.68	1.13/2.28	3.14/2.39	1.98/2.36	2.73/2.55	1.47/-0.10	-0.61/0.06	-0.10/0.05	2.60/2.20	0.79/0.42	-2.32/1.24	3.49/2.36	0.88/0.85	0.46/2.27	-1.78/-0.28	-0.70/-2.38	-2.61/-2.03	-0.36/0.70	0.36/1.53	-2.92/-1.34	-0.02/0.46	0.19/0.60	2.92/3.53	2.41/2.19
θ (60°)	2.67/2.18	1.76/1.88	2.01/1.47	2.58/2.80	2.44/1.63	-0.30/-1.99	-0.88/0.14	-0.25/-0.45	1.13/2.31	2.05/2.19	-1.24/-1.53	2.09/1.63	1.10/1.60	0.64/1.09	-0.83/0.51	-1.09/-3.36	-2.08/-0.75	-0.26/0.32	0.20/0.81	-2.16/-1.05	-0.24/-0.49	-0.73/-0.58	2.28/3.42	2.50/2.48
θ (67.5°)	2.28/2.47	1.52/0.33	1.20/1.82	3.91/3.37	2.99/2.75	1.06/0.70	1.47/0.95	-0.56/-0.46	0.80/1.49	1.61/1.63	-1.74/-3.39	-0.09/0.96	1.78/0.08	-2.31/-1.10	-0.42/-0.43	-1.30/-2.52	-0.88/-2.09	0.26/0.12	0.04/-0.08	-1.78/-0.66	0.41/0.10	-0.14/-1.17	0.77/1.46	0.70/1.91
θ (75°)	1.22/2.34	-0.12/-2.07	-0.33/-2.11	3.77/2.75	2.93/3.14	2.10/1.77	2.04/1.34	-0.51/-0.71	-0.35/0.12	0.67/0.98	-1.60/-4.50	-4.17/0.70	1.42/-0.15	-3.10/-3.00	-0.64/-0.36	-0.98/-1.64	0.41/1.03	0.12/-1.30	-1.37/0.03	-1.02/-1.08	0.81/0.10	0.16/-1.46	-0.16/-1.07	-0.43/1.43
θ (82.5°)	-0.12/1.78	-2.80/-4.47	-2.39/-0.36	2.32/0.96	1.85/1.65	1.28/0.99	1.07/0.65	-1.36/-1.68	-1.31/-2.49	-0.32/-0.04	-3.57/-5.61	-5.26/-0.52	0.20/-1.82	-2.03/-0.35	-1.26/-1.22	-1.71/-1.40	0.40/1.11	0.06/-2.23	-2.54/-0.66	-1.58/0.10	0.83/-0.31	0.18/-1.45	-1.54/-2.65	-2.77/0.08
θ (90°)	-1.41/0.02	-5.88/-7.05	-4.95/-9.52	0.60/-0.47	-0.20/-1.47	-1.19/-1.73	-2.64/-2.18	-3.65/-0.42	-2.80/-3.70	-3.53/-1.08	-4.38/-5.38	-7.89/-2.92	-1.79/-1.79	-3.33/-2.03	-2.05/-2.34	-2.53/-2.29	-1.74/0.51	-0.75/-2.64	-4.61/-1.49	-2.51/-1.54	-0.70/-1.54	-1.26/-2.49	-3.49/-3.78	-4.15/-1.27
θ (97.5°)	-3.05/-3.54	-10.23/-9.11	-6.94/-4.12	-1.04/-1.76	-1.84/-3.90	-5.34/-4.28	-5.82/-4.28	-4.84/-4.66	-5.88/-2.73	-5.44/-7.81	-9.74/-1.84	-1.81/-2.82	-3.82/-3.38	-4.47/-4.67	-5.68/-5.80	-4.44/-2.24	-6.22/-1.82	-4.50/-4.55	-3.62/-3.90	-4.50/-4.55	-6.22/-1.82	-3.65/-3.97	-5.44/-3.84	-4.72/-1.74
θ (105°)	-6.32/-5.95	-10.82/-8.53	-7.00/-6.43	-2.68/-2.18	-2.51/-4.47	-4.49/-5.00	-7.24/-8.18	-7.72/-5.47	-6.73/-7.14	-8.08/-7.15	-7.50/-9.08	-7.16/-8.04	-2.43/-5.58	-4.59/-5.76	-4.84/-5.20	-7.12/-7.29	-6.47/-5.31	-5.17/-6.32	-5.81/-2.81	-6.27/-9.23	-7.35/-6.35	-7.56/-5.34	-7.03/-4.46	-5.92/-2.95
θ (112.5°)	-7.20/-6.91	-10.50/-11.68	-11.83/-11.75	-7.70/-5.37	-5.19/-5.32	-5.25/-5.13	-5.91/-7.95	-8.35/-6.15	-9.51/-10.64	-10.71/-11.63	-9.61/-14.49	-6.96/-7.05	-5.29/-6.97	-5.05/-5.34	-6.00/-7.87	-8.15/-8.83	-4.09/-7.53	-7.07/-5.40	-7.65/-9.86	-7.03/-7.14	-9.81/-7.99	-8.89/-7.94	-13.58/-15.53	-9.35/-5.02
θ (120°)	-8.10/-6.67	-9.16/-10.12	-12.57/-8.82	-6.09/-0.84	-8.30/-8.69	-8.69/-8.04	-9.20/-12.33	-14.77/-11.46	-9.66/-11.76	-10.64/-10.46	-14.56/-9.82	-9.54/-17.14	-11.87/-14.79	-10.51/-12.62	-10.18/-14.92	-10.19/-9.35	-6.21/-6.29	-4.09/-9.38	-10.76/-9.44	-7.60/-10.26	-10.19/-12.60	-8.97/-10.26	-11.59/-15.64	-9.55/-5.29
θ (127.5°)	-9.44/-9.39	-11.75/-12.89	-14.20/-11.37	-7.64/-8.20	-7.72/-6.22	-7.07/-11.52	-12.92/-11.02	-10.32/-9.67	-9.09/-13.82	-13.27/-8.98	-8.64/-11.44	-11.26/-6.35	-6.02/-7.69	-7.62/-5.25	-9.50/-10.81	-15.80/-9.10	-10.11/-7.60	-5.38/-9.88	-8.91/-6.42	-5.76/-9.55	-12.22/-8.41	-6.68/-10.06	-9.06/-14.42	-13.69/-7.23
θ (135°)	-11.32/-11.88	-9.28/-11.74	-12.98/-13.43	-16.24/-9.41	-7.22/-7.55	-8.51/-10.93	-10.78/-9.72	-11.17/-11.29	-10.70/-11.95	-11.64/-12.17	-13.15/-12.22	-10.02/-8.05	-7.98/-7.58	-7.76/-9.20	-10.51/-12.26	-14.02/-10.19	-14.19/-9.63	-8.41/-12.68	-10.28/-6.81	-7.73/-10.19	-13.67/-10.14	-8.35/-9.44	-12.47/-13.31	-10.93/-11.80
θ (142.5°)	-13.06/-14.40	-12.73/-14.52	-15.68/-12.76	-10.68/-12.00	-12.35/-11.86	-15.25/-15.07	-14.38/-14.08	-13.61/-14.67	-15.29/-15.15	-9.54/-13.27	-14.56/-9.82	-10.78/-14.12	-11.87/-14.79	-10.51/-12.62	-10.18/-14.92	-10.19/-9.35	-6.21/-6.29	-4.09/-9.38	-10.76/-9.44	-7.60/-10.26	-10.19/-12.60	-8.97/-10.26	-11.59/-15.64	-9.55/-5.29
θ (150°)	-10.67/-11.42	-9.46/-8.96	-10.58/-15.15	-12.83/-10.35	-8.05/-7.49	-8.89/-9.26	-9.63/-13.36	-15.53/-10.38	-9.98/-12.34	-11.83/-13.60	-12.98/-11.52	-11.32/-9.90	-9.11/-10.37	-11.66/-12.89	-15.12/-15.24	-14.99/-13.01	-9.70/-9.74	-12.29/-13.49	-11.83/-9.72	-10.10/-9.69	-9.44/-13.13	-14.56/-14.10	-10.61/-12.20	-11.55/-9.21
θ (157.5°)	-11.62/-12.17	-13.08/-11.16	-9.63/-11.17	-14.68/-15.48	-14.24/-14.28	-13.61/-12.16	-11.93/-14.27	-15.13/-14.08	-15.39/-14.77	-13.18/-12.50	-13.87/-15.05	-13.96/-11.65	-11.45/-12.18	-14.59/-13.77	-11.72/-10.09	-9.88/-10.37	-11.60/-13.87	-15.24/-14.74	-13.93/-13.12	-12.71/-12.16	-12.22/-12.77	-12.83/-13.50	-12.64/-14.10	-15.36/-11.80
θ (165°)	-15.71/-14.67	-15.57/-11.19	-8.35/-7.86	-8.27/-9.37	-10.23/-11.53	-12.84/-14.50	-15.83/-15.39	-15.47/-15.22	-14.80/-13.84	-12.48/-12.38	-13.49/-15.05	-15.51/-14.54	-12.94/-12.88	-10.59/-9.41	-10.11/-11.71	-13.82/-14.57	-15.44/-14.00	-14.04/-15.24	-15.36/-16.04	-15.22/-14.34	-13.10/-11.65	-11.16/-12.59	-14.34/-15.60	
θ (172.5°)	-13.19/-11.56	-11.45/-11.72	-13.05/-11.72	-10.50/-10.37	-10.57/-10.85	-11.27/-11.95	-13.51/-14.88	-15.50/-15.66	-15.41/-15.12	-14.42/-14.33	-13.44/-13.41	-14.09/-12.19	-11.79/-12.21	-11.98/-12.76	-12.91/-11.75	-11.13/-11.13	-10.66/-10.54	-10.09/-10.00	-10.25/-10.71	-11.00/-10.89	-10.67/-12.05	-13.58/-15.53	-15.58/-15.80	
θ (180°)	-14.20/-14.96	-13.69/-13.26	-12.85/-12.34	-11.06/-11.06	-10.91/-11.41	-11.22/-11.17	-11.38/-12.00	-12.63/-11.63	-10.81/-10.30	-9.78/-9.73	-9.97/-10.66	-11.30/-12.97	-14.69/-14.81	-14.83/-15.44	-15.15/-15.62	-15.72/-14.66	-15.52/-15.41	-14.88/-15.30	-15.92/-14.52	-13.76/-13.30	-12.98/-12.96	-13.77/-14.64	-13.65/-13.59	-12.94/-12.47
Freq(Hz)	5.785GPol	TotalAnt.4	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210									