

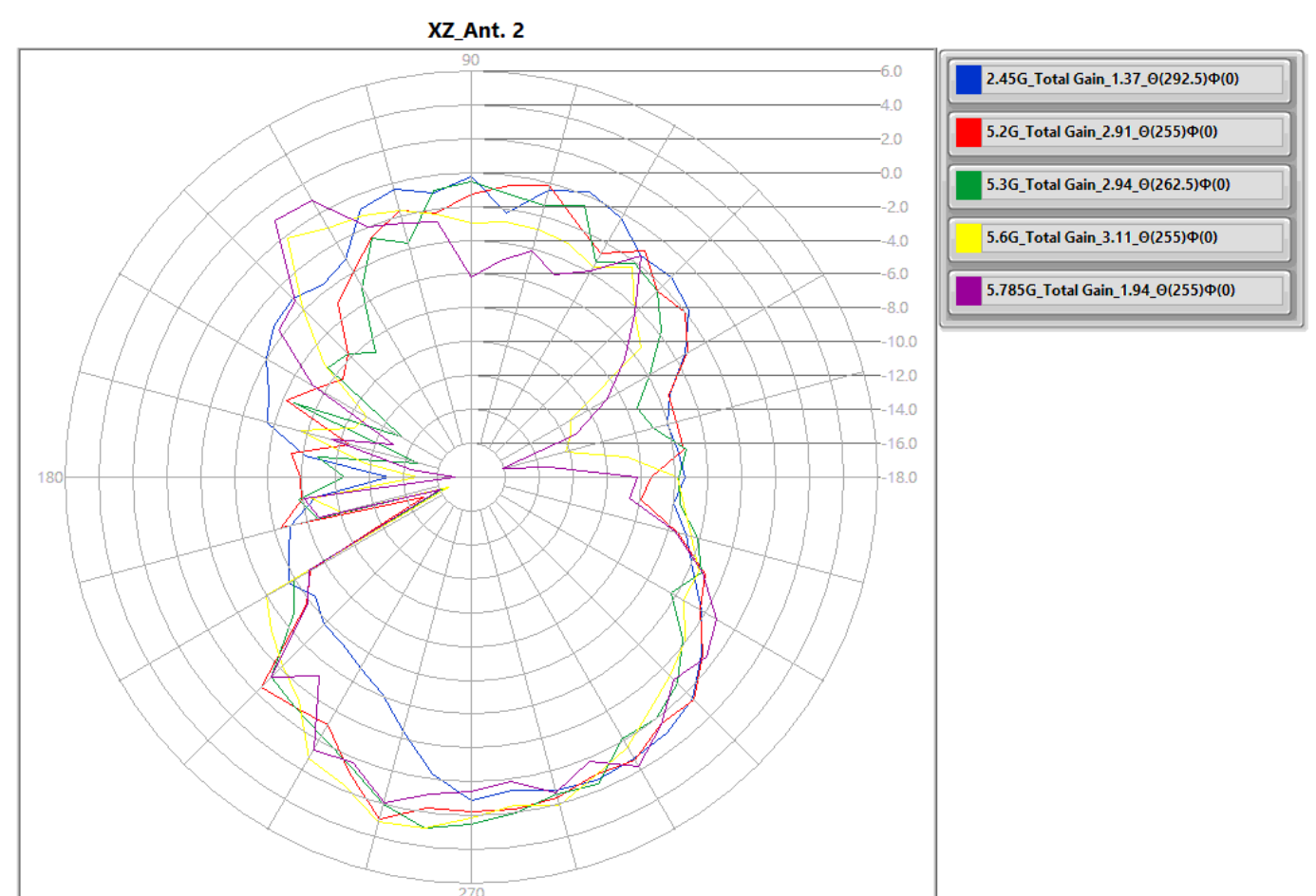
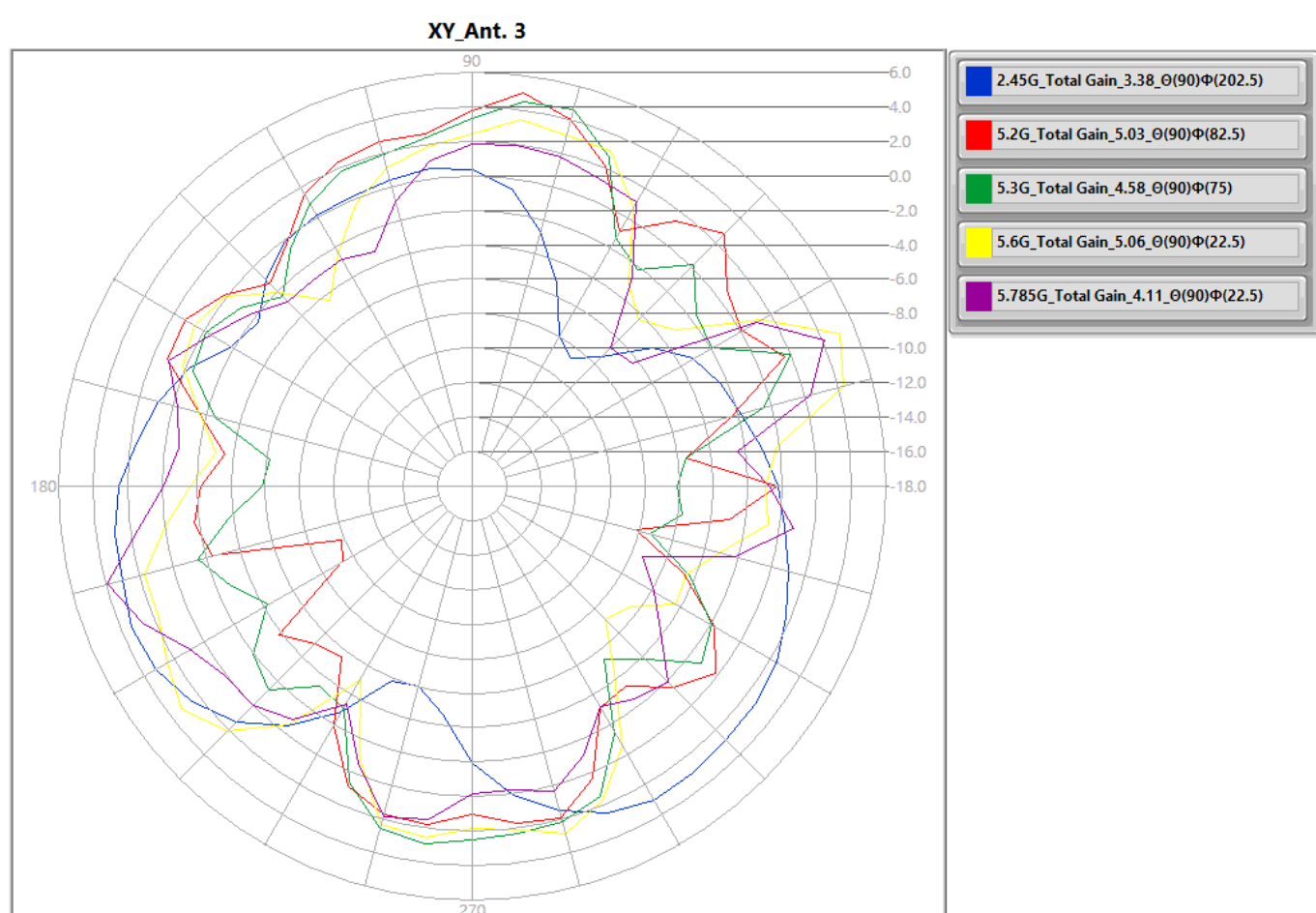
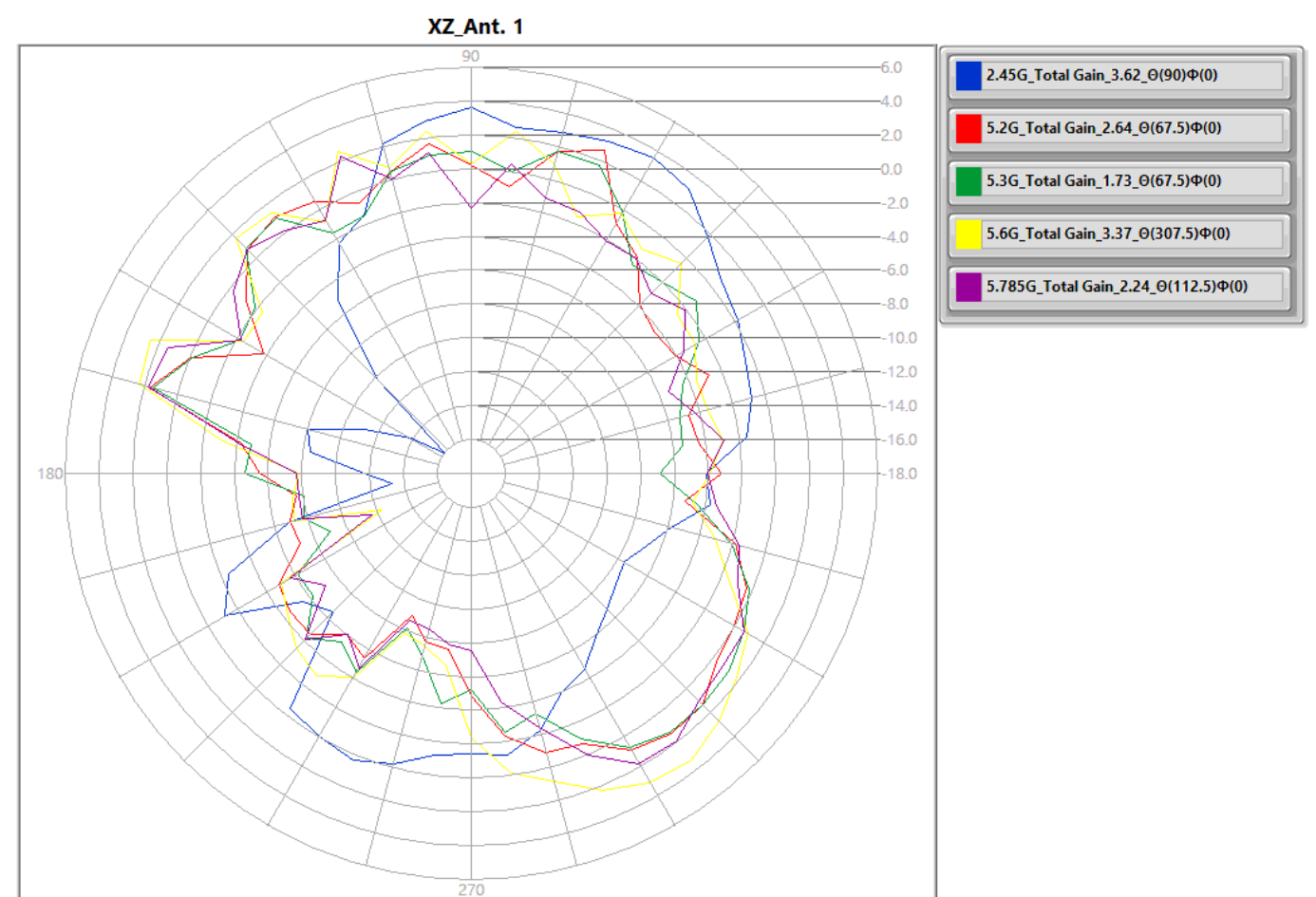
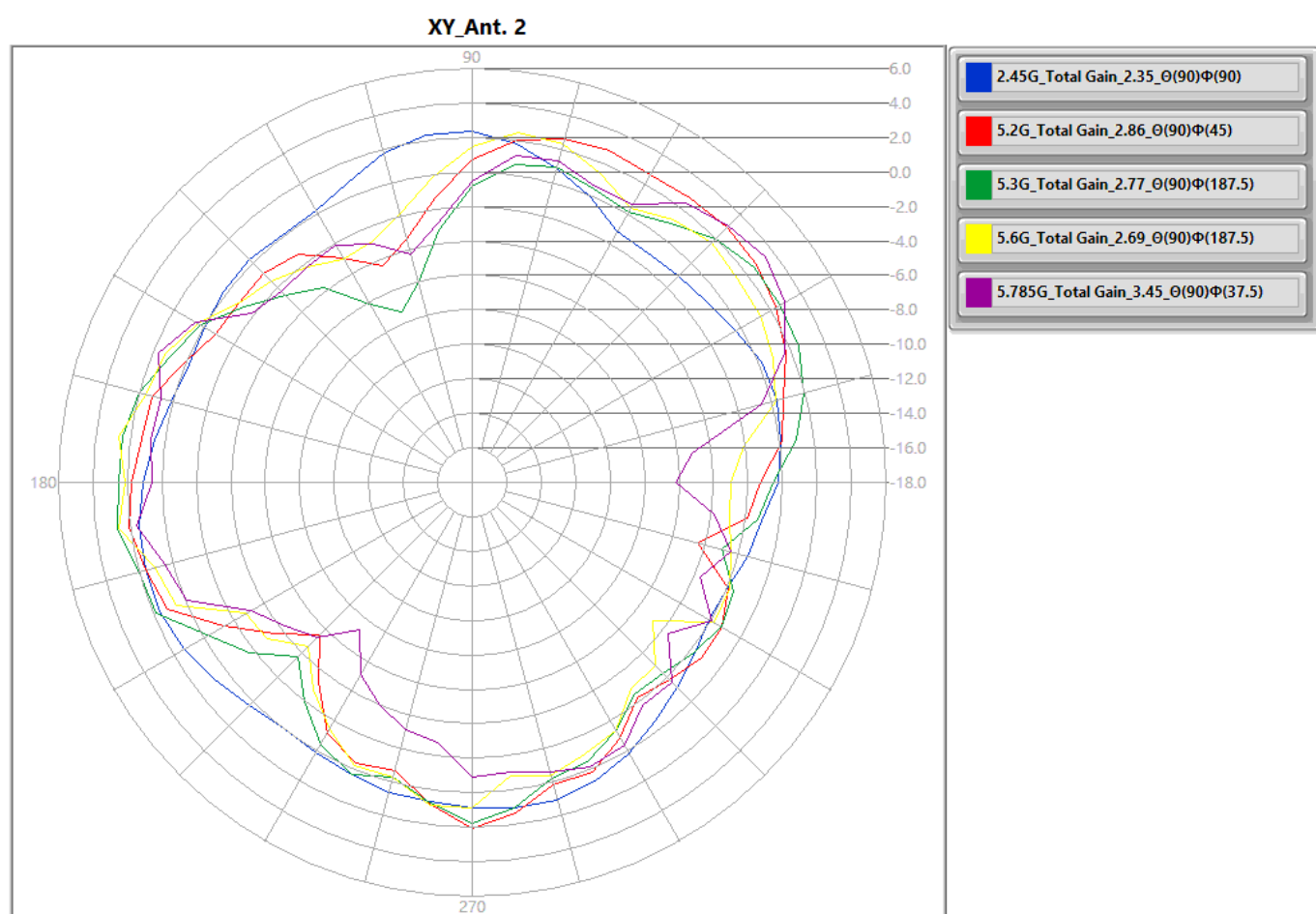
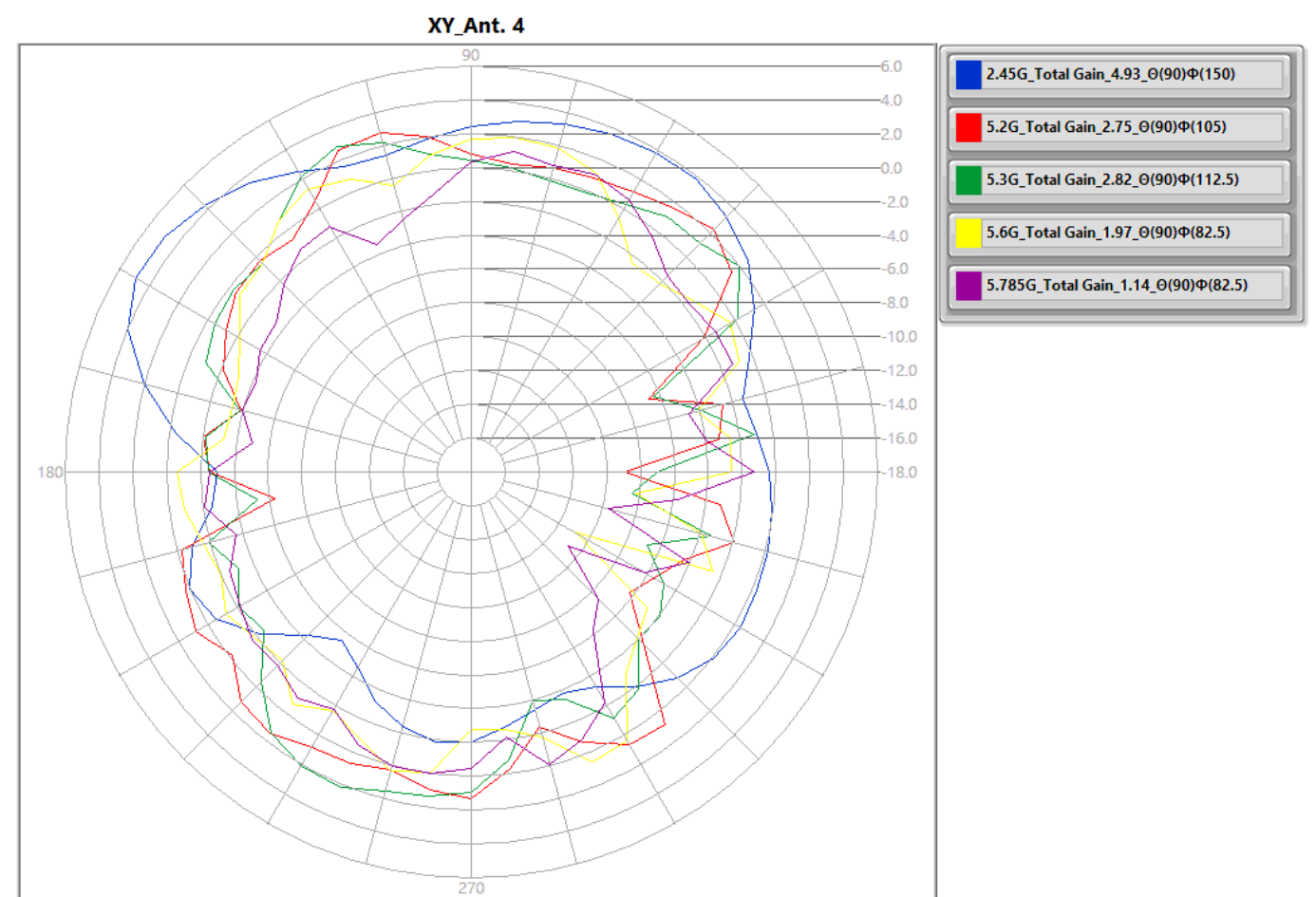
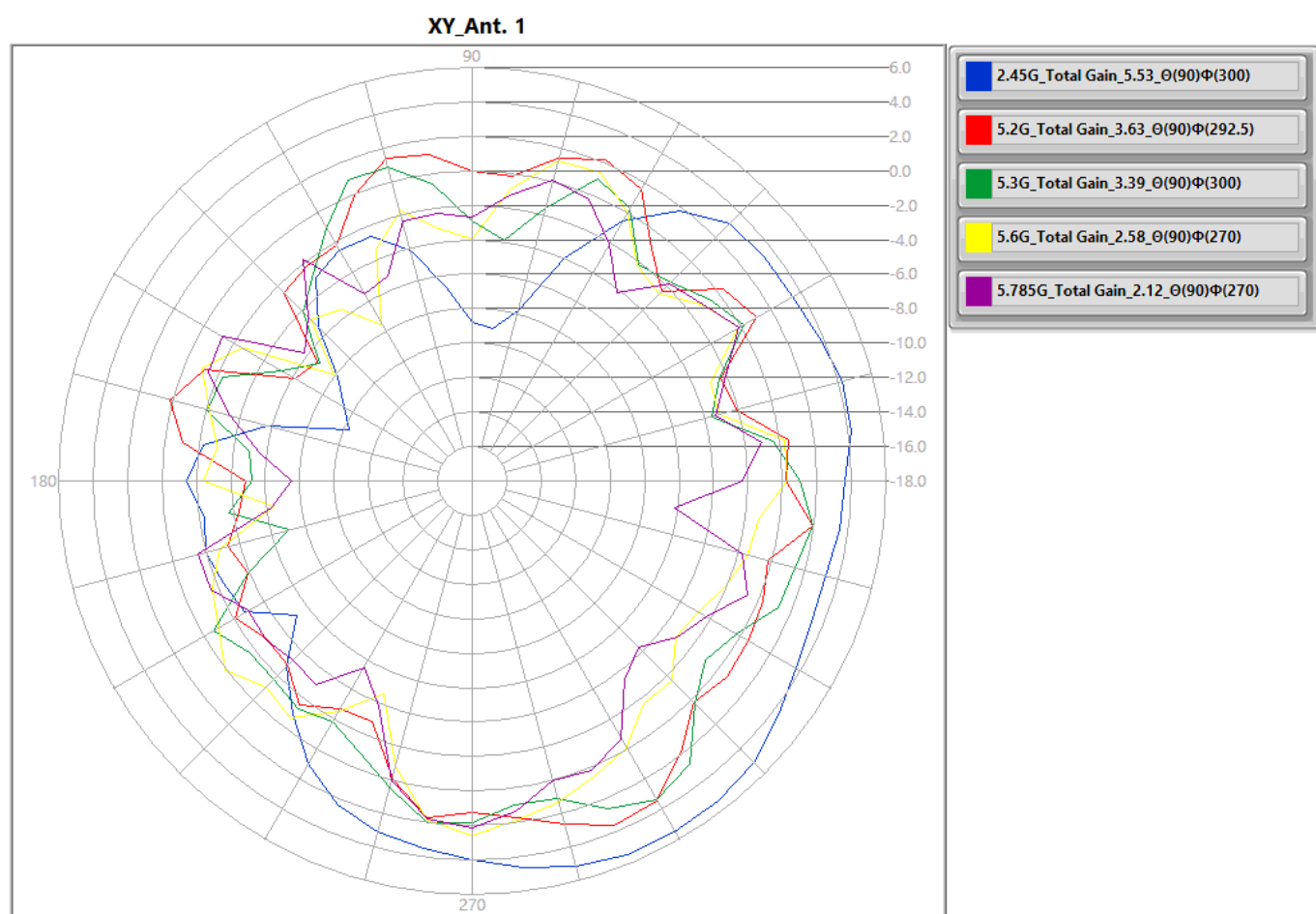


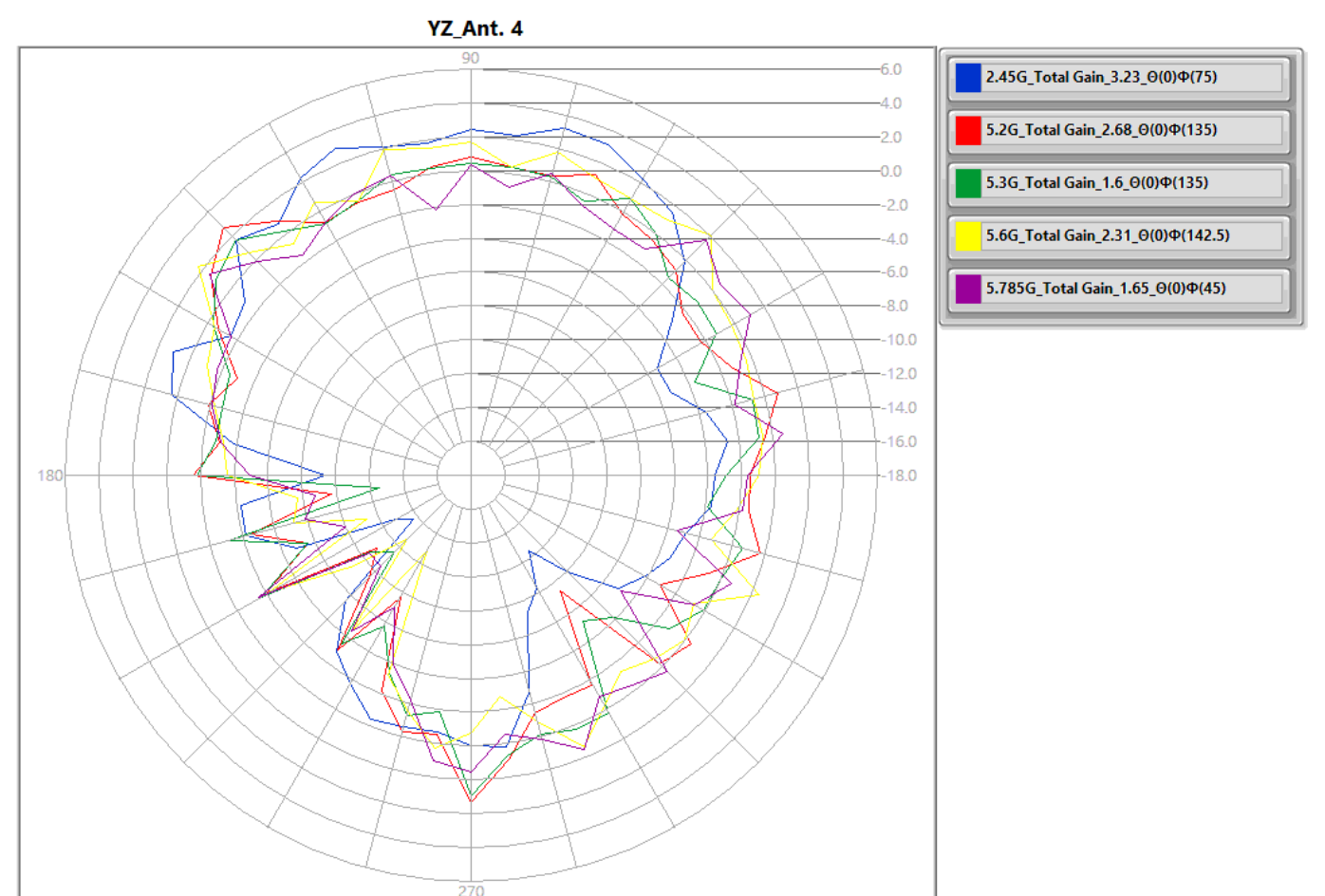
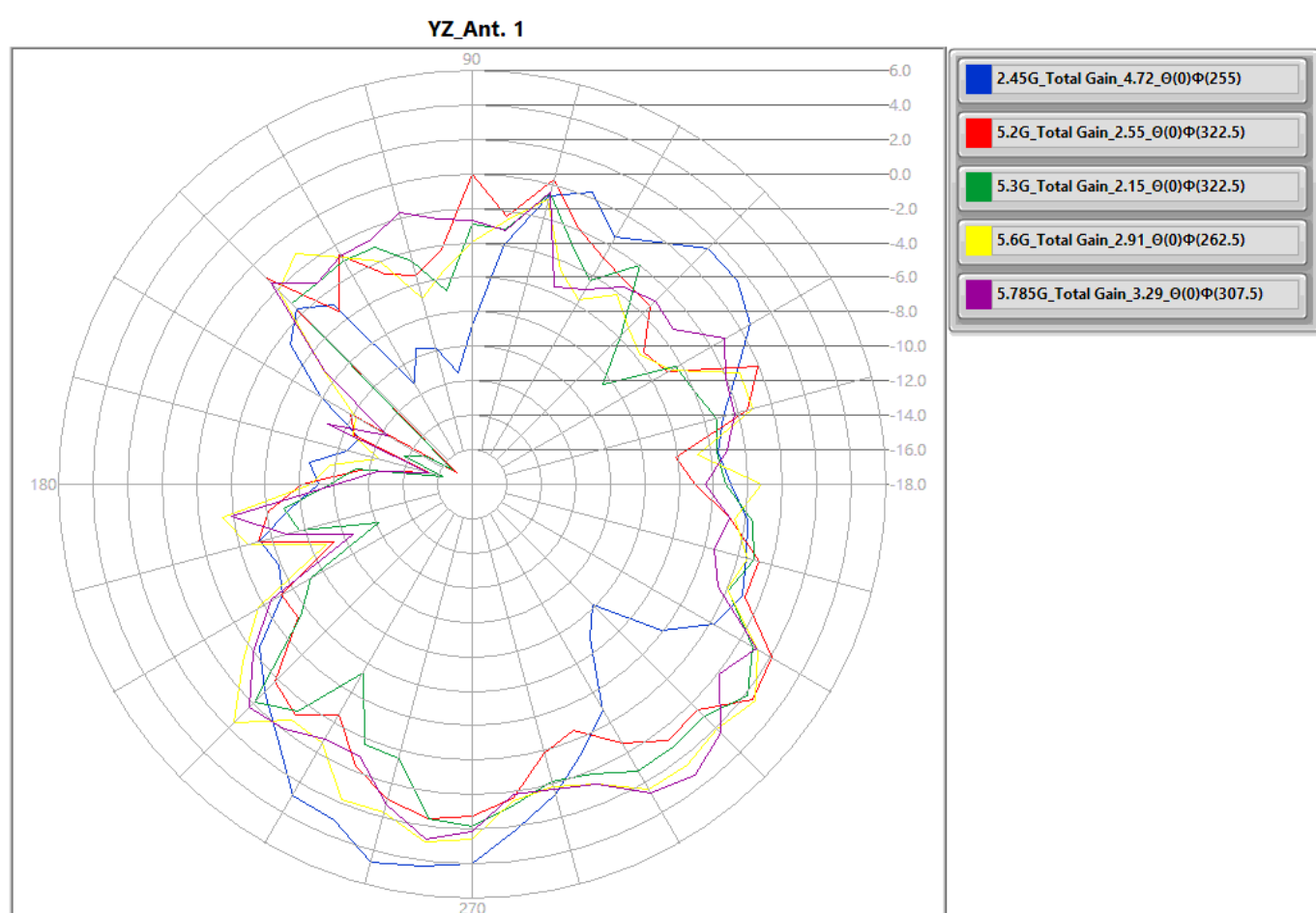
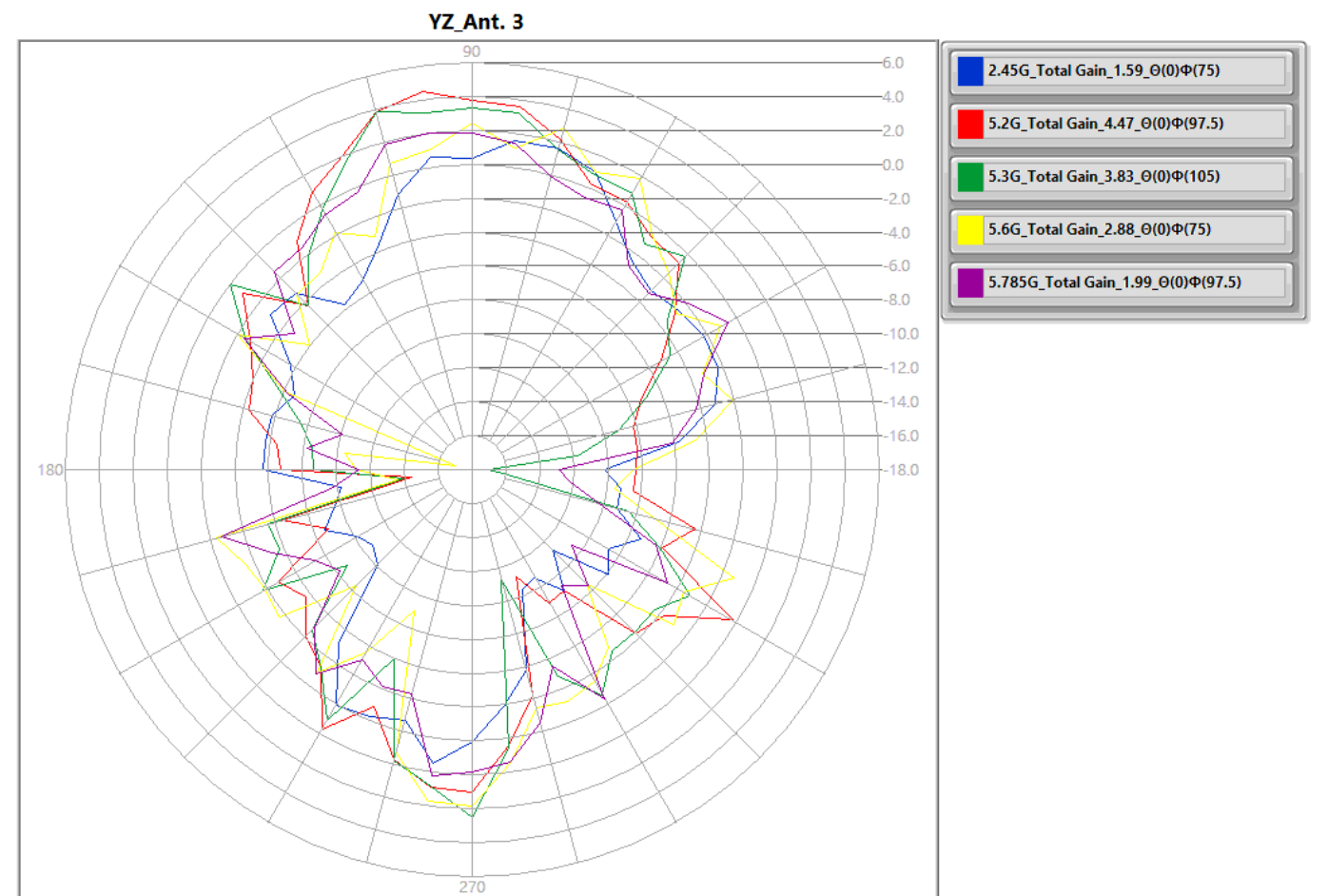
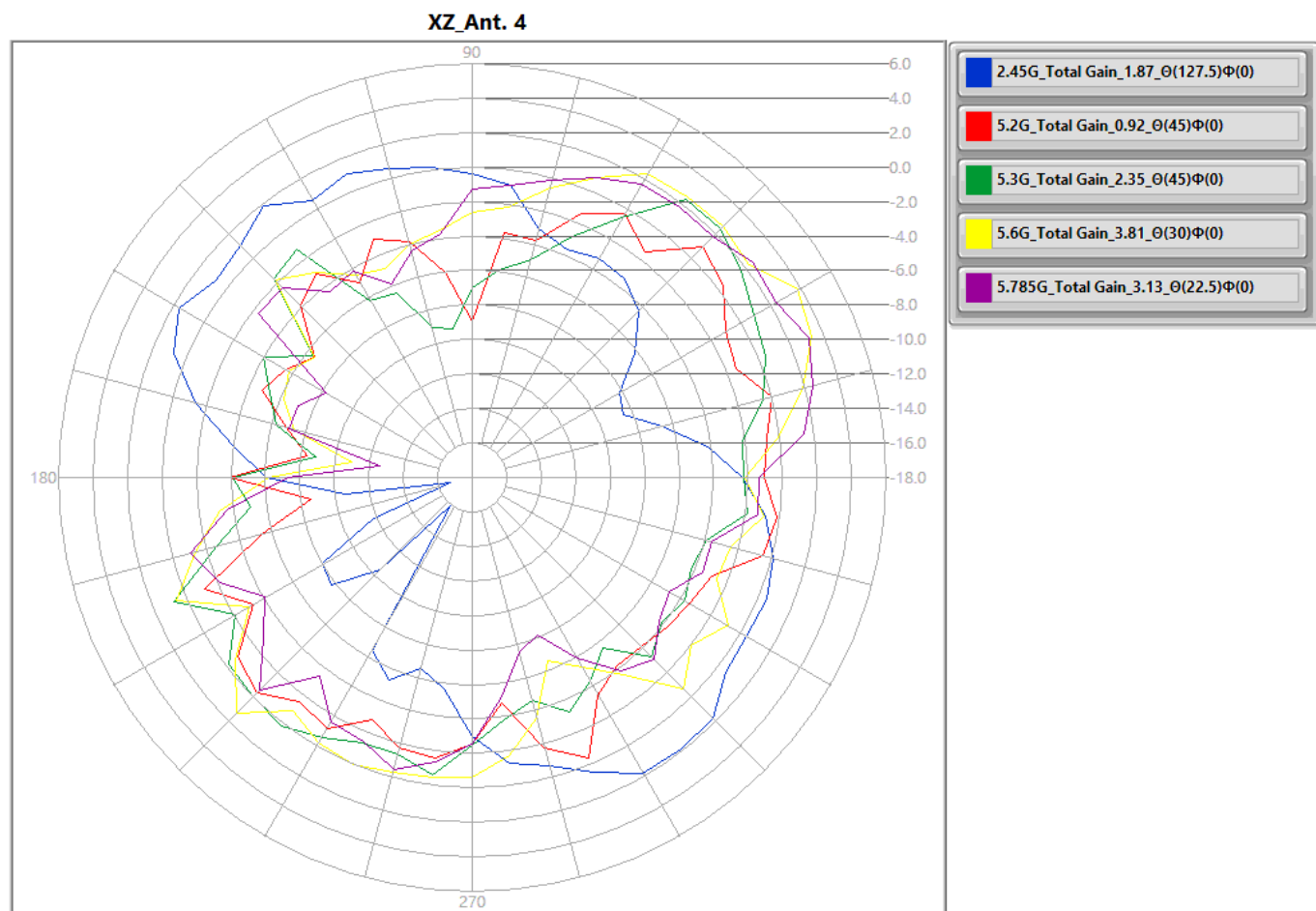
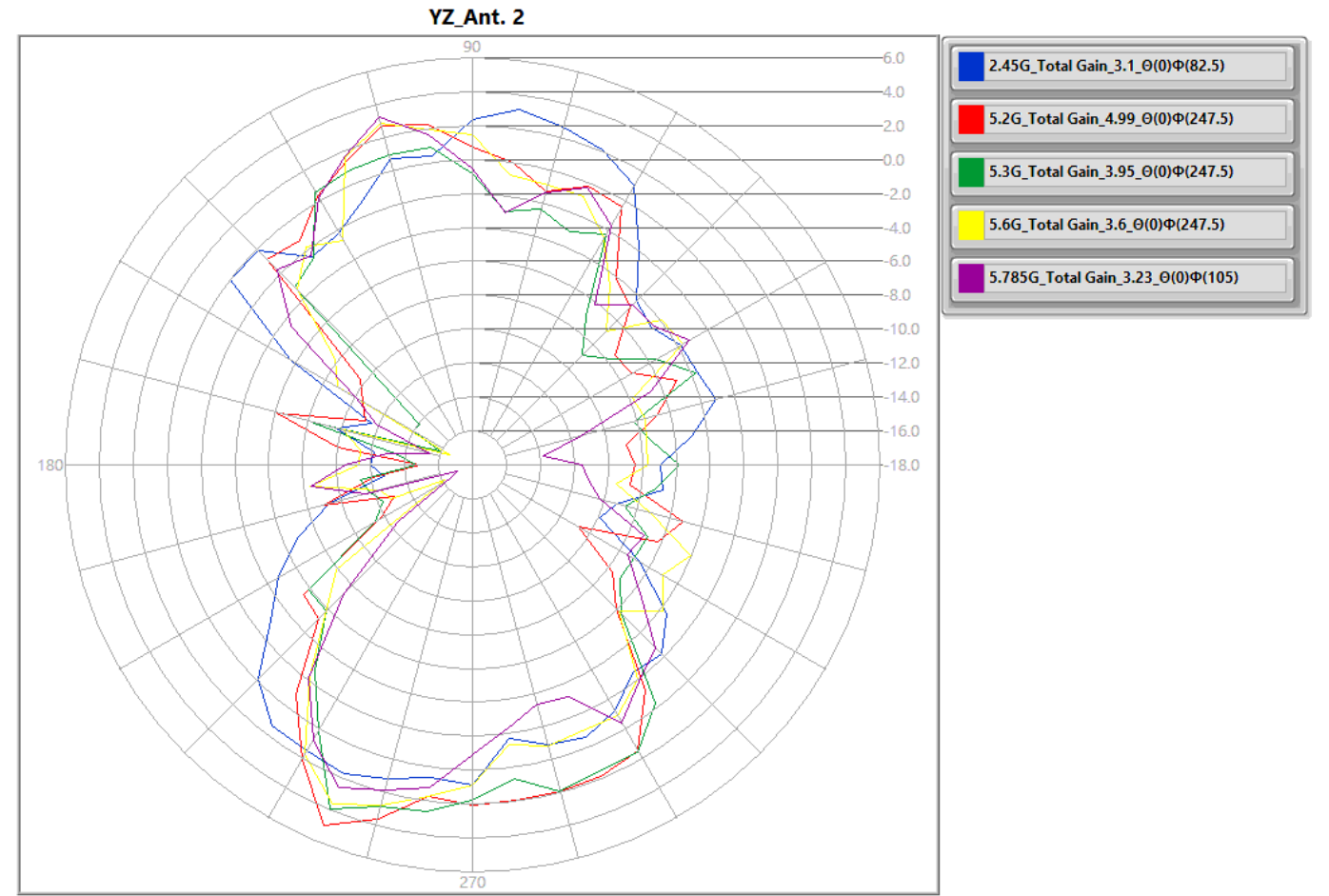
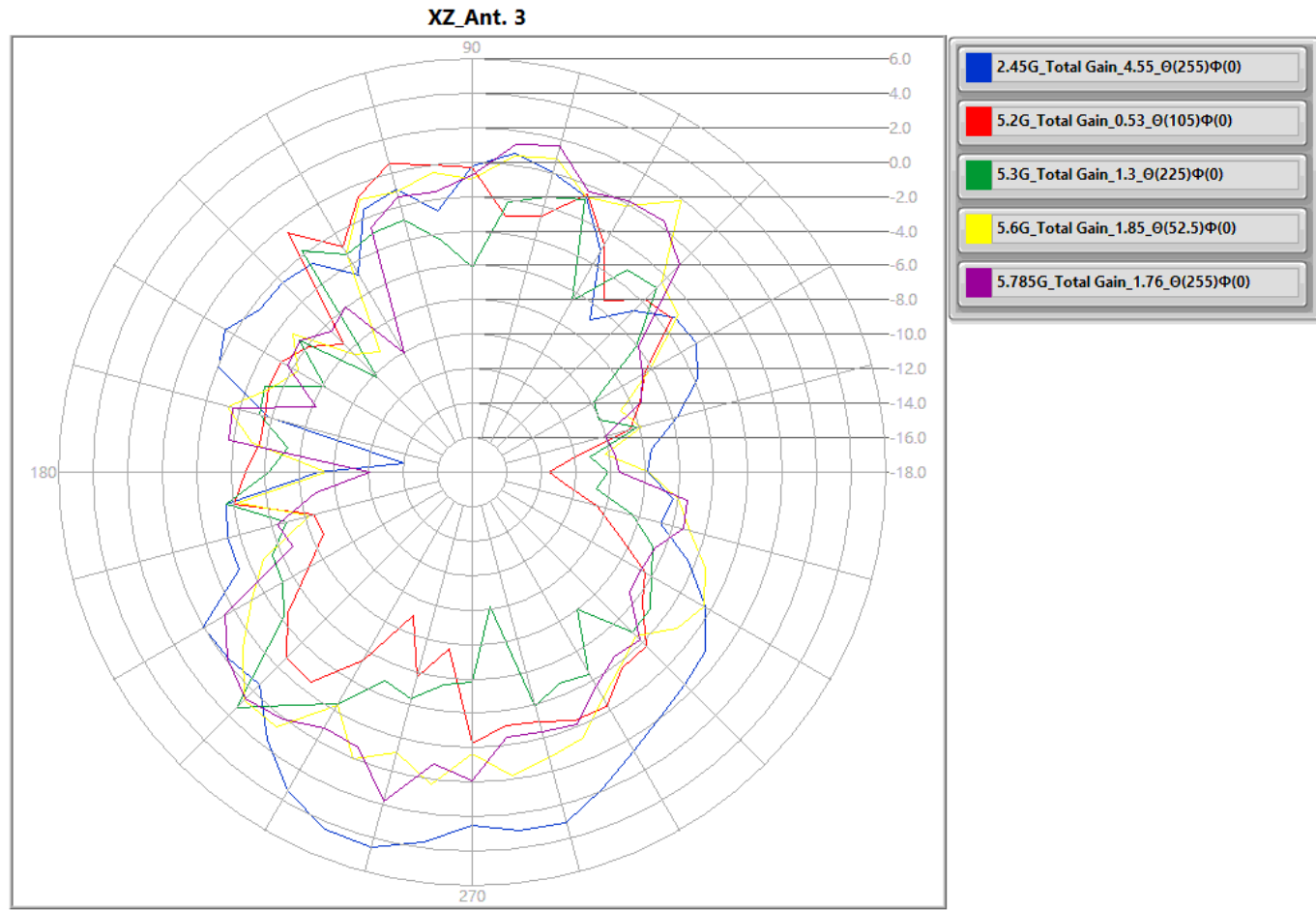
Antenna Pattern_2.4GHz, 5GHz

Appendix C

Θ(165°)	-6.81/-6.80	-7.12/-6.97	-7.33/-6.96	-6.01/-5.14	-4.27/-3.39	-2.67/-2.21	-1.96/-1.68	-1.47/-0.80	-0.170/-67	0.79/+0.54	-2.18/-3.02	-2.81/-3.27	-5.38/-9.08	-8.71/-6.48	-5.06/-4.75	-4.61/-3.98	-3.10/-2.63	-2.90/-3.72	-4.50/-5.43	-7.09/-9.51	-12.35/-15.28	-15.43/-15.11	-12.46/-10.53	-8.01/-7.27
Θ(172.5°)	-8.32/-7.64	-7.15/-7.58	-7.62/-8.71	-8.88/-9.07	-7.79/-5.85	-4.34/-3.83	-3.04/-2.41	-1.87/-1.58	-1.64/-2.17	-2.92/-3.40	-3.18/-3.33	-4.46/-6.31	-8.55/-8.69	-7.55/-6.50	-6.12/-6.37	-6.71/-6.96	-7.54/-8.37	-10.08/-10.99	-9.70/-7.54	-6.84/-7.89	-8.76/-8.47	-8.55/-9.02	-9.21/-9.42	-9.56/-9.21
Θ(180°)	-3.95/-3.51	-2.97/-3.00	-3.04/-2.66	-2.34/-2.15	-2.10/-2.11	-1.93/-1.74	-1.55/-1.62	-1.67/-1.65	-1.90/-2.78	-3.41/-3.72	-3.92/-4.35	-4.90/-5.51	-6.29/-7.98	-9.91/-12.14	-15.04/-14.45	-11.70/-10.05	-8.50/-6.99	-5.43/-4.40	-4.07/-4.40	-4.39/-4.72	-4.12/-4.17	-4.12/-4.18	-4.02/-4.80	-4.95/-4.77
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°)	-2.28/-2.12	-2.34/-2.30	-2.23/-2.04	-1.85/-1.55	-1.56/-1.76	-2.23/-2.71	-2.94/-2.74	-2.51/-2.58	-2.82/-3.00	-3.18/-3.08	-2.72/-2.40	-2.10/-1.51	-1.18/-0.91	-0.530/-0.00	0.350/0.34	-0.03/-0.26	-0.71/-1.32	-2.20/-2.81	-2.76/-2.19	-2.36/-2.60	-2.55/-2.65	-2.65/-2.00	-1.72/-1.58	-1.78/-2.16
Θ(7.5°)	-2.18/-1.50	-0.92/-0.30	0.050/0.03	0.130/0.28	0.440/0.38	0.120/-0.38	-0.81/-1.32	-2.47/-2.38	-1.80/-1.48	-2.12/-2.81	-2.90/-2.60	-2.14/-1.93	-1.90/-1.96	-1.65/-1.18	-0.90/-1.64	-1.94/-2.21	-2.07/-2.36	-2.78/-3.48	-3.89/-3.40	-2.46/-2.00	-2.26/-2.65	-2.46/-1.96	-1.50/-1.49	-1.69/-2.09
Θ(15°)	-0.51/-0.06	0.550/0.80	1.031/1.13	1.170/0.93	0.790/0.60	0.31/-0.13	-0.77/-1.31	-1.35/-0.61	-0.37/-0.86	-1.98/-3.42	-4.01/-3.68	-3.56/-3.54	-3.91/-4.37	-4.60/-4.28	-3.53/-2.52	-1.64/-0.92	-0.64/-0.61	-0.75/-0.97	-1.40/-1.36	-0.89/-0.54	-0.72/-1.13	-1.51/-1.35	-1.11/-0.83	-0.86/-0.89
Θ(22.5°)	0.390/0.80	0.981/1.45	1.701/2.29	0.27/-0.84	-2.07/-2.40	-2.88/-3.35	-3.71/-4.44	-4.80/-3.96	-3.12/-2.62	-4.48/-5.38	-3.89/-2.58	-2.24/-2.90	-4.27/-3.68	-2.94/-2.70	-2.99/-3.56	-3.99/-3.95	-3.32/-2.81	-2.69/-2.72	-1.99/-1.69	-0.81/-0.23	0.06/-0.08	-0.87/-1.48	-1.10/-0.88	-0.560/0.28
Θ(30°)	0.901/1.91	2.501/7.9	0.660/0.19	-0.27/-0.61	-0.53/-0.49	-0.93/-0.94	-1.24/-1.87	-2.83/-4.41	-5.87/-6.99	-7.07/-5.81	-4.74/-4.23	-3.91/-3.76	-3.78/-4.02	-4.88/-6.27	-6.28/-4.81	-4.14/-4.20	-5.12/-5.56	-4.49/-2.93	-2.14/-2.24	-2.94/-2.78	-1.49/-0.61	-0.080/0.25	-0.66/-1.81	-1.50/-0.11
Θ(37.5°)	1.682/4.3	2.331/6.6	0.791/3.8	1.200/8.1	0.980/4.9	-0.06/-1.03	-0.77/-1.76	-3.61/-4.90	-4.35/-4.43	-5.50/-5.97	-5.09/-3.72	-3.11/-2.91	-4.16/-6.26	-8.22/-7.02	-4.85/-3.24	-2.43/-2.48	-2.63/-2.50	-2.49/-2.73	-3.16/-3.73	-3.59/-1.92	-1.271/-1.40	-0.08/-0.11	-0.42/-0.99	-0.800/0.89
Θ(45°)	2.351/9.8	1.841/6.49	1.552/4.5	2.242/3.8	1.880/9.3	0.08/-0.94	-1.47/-1.97	-2.36/-2.53	-1.37/-0.98	-2.64/-4.91	-5.77/-5.55	-4.32/-3.22	-3.32/-5.15	-4.91/-4.26	-4.18/-3.51	-3.75/-3.27	-3.79/-3.15	-3.84/-5.52	-6.12/-4.73	-3.96/-4.98	-3.74/-1.33	-0.511/0.03	0.15/-1.56	-1.400/0.82
Θ(52.5°)	2.353/6.2	2.790/9.0	-0.760/4.3	1.422/3.2	2.132/2.5	1.871/1.8	-0.06/-1.47	-2.05/-1.31	-0.230/0.4	-1.32/-4.93	-7.76/-5.16	-4.16/-4.38	-5.55/-7.49	-6.20/-4.01	-2.01/-2.17	-2.02/-2.85	-4.27/-6.22	-5.82/-6.53	-7.17/-6.12	-5.25/-5.19	-5.57/-3.47	0.041/0.91	2.170/1.1	-2.10/-2.63
Θ(60°)	-0.611/0.03	1.48/-0.54	-0.910/0.59	1.992/1.3	2.442/3.9	2.411/8.3	0.87/-0.40	-1.75/-1.95	-0.97/-0.80	-0.62/-2.63	-4.70/-6.02	-4.88/-3.82	-4.37/-8.40	-8.94/-4.42	-3.51/-4.14	-4.29/-4.49	-3.58/-3.61	-3.22/-2.39	-1.82/-2.38	-4.26/-5.14	-6.35/-5.56	-3.33/-1.10	0.830/6.6	0.04/-0.63
Θ(67.5°)	-2.890/4.8	2.20/-0.27	-0.502/0.10	3.763/2.0	2.792/0.6	1.20/-0.09	-0.46/-0.32	-0.12/-0.07	0.130/-44	-0.00/-2.42	-4.30/-4.45	-4.67/-4.90	-3.26/-4.59	-5.11/-2.79	-2.78/-3.26	-3.71/-2.41	-1.06/-0.30	-0.310/-0.43	-1.75/-2.19	-1.77/-1.21	-0.72/-2.62	-6.69/-4.43	-1.220/0.52	0.04/-1.82
Θ(75°)	-4.92/-0.21	0.70/-1.24	-0.062/0.31	3.323/0.35	2.841/8.8	1.200/8.5	0.250/0.21	0.850/8.4	-0.11/-0.75	-0.29/-0.67	-2.90/-2.51	-4.46/-6.42	-4.59/-7.42	-2.41/-0.19	-1.84/-2.85	-2.20/-2.17	-4.33/-3.58	-1.99/-1.87	-2.16/-4.04	-5.63/-3.21	-0.88/-2.54	-4.96/-6.92	-3.47/-1.89	-1.46/-3.41
Θ(82.5°)	-5.88/-1.42	-1.21/-2.05	0.912/0.88	2.752/2.4	1.170/5.3	0.15/-0.59	0.35/-0.56	1.82/-1.65	0.850/3.8	-2.09/-2.55	-2.20/-3.99	-5.67/-2.52	-2.79/-3.09	-3.68/-1.63	-1.60/-1.08	0.630/-99	0.41/-0.77	-1.32/-3.66	-6.49/-3.31	0.210/8.9	-1.84/-3.66	-7.22/-2.80	-1.83/-4.02	-9.95/-7.67
Θ(90°)	-6.97/-1.14	-3.96/-6.34	0.171/9.8	1.151/0.1	0.26/-0.18	-0.190/-0.16	-0.410/0.95	2.172/8.2	2.130/7.2	-0.54/-0.34	-0.48/-1.05	-3.83/-2.18	-2.45/-5.92	-1.90/-3.12	-2.13/-2.57	-0.441/4.4	2.052/0.16	1.531/3.5	0.96/-0.87	-4.02/-3.46	-1.21/-1.81	-4.07/-3.97	-4.83/-6.72	-3.27/-6.38
Θ(97.5°)	-9.32/-1.98	-3.76/-6.06	0.231/8.3	0.950/2.7	-0.270/0.75	0.840/6.5	0.260/0.63	1.632/3.4	3.202/9.0	-0.41/-1.13	-0.29/-1.68	-1.96/-0.73	-0.59/-3.42	-2.20/-3.48	-4.63/-4.07	-1.58/-1.02	-0.82/-0.83	-0.24/-1.31	-3.91/-3.80	-5.80/-3.83	-3.60/-6.36	-7.92/-3.97	-7.80/-7.75	-5.86/-7.50
Θ(105°)	-8.98/-4.81	-5.12/-5.19	-2.300/-3.1	0.97/-0.02	-0.270/-3.1	1.421/3.3	0.420/-90	2.314/1.7	4.412/7.5	0.74/-0.29	-0.70/-1.86	-2.60/-1.23	-1.37/-3.86	-1.93/-5.36	-5.85/-2.82	-1.04/-0.80	-6.00/-6.74	-5.33/-3.25	-3.32/-4.43	-7.62/-9.89	-11.52/-9.95	-6.75/-3.31	-5.29/-11.76	-9.95/-7.67
Θ(112.5°)	-6.45/-4.23	-5.14/-6.49	-2.60/-1.30	-0.910/0.06	-0.810/0.90	-2.58/-2.37	-0.451/6.5	2.582/9.2	2.891/8.8	0.51/-2.66	-3.91/-2.03	1.480/1.3	-1.34/-3.01	-4.14/-7.31	-2.92/-2.94	-2.130/-2.42	-5.09/-3.98	-1.87/-3.41	-5.38/-4.20	-4.94/-6.92	-14.35/-4.76	-2.90/-3.73	-3.43/-7.58	-10.80/-9.66
Θ(120°)	-6.18/-5.99	-9.24/-5.68	-4.10/-3.11	-1.73/-3.04	-3.12/-4.30	-3.34/-2.25	-0.800/7.3	2.092/1.5	1.06/-0.19	-0.28/-0.68	-0.241/0.3	0.680/1.1	-0.58/-2.56	-4.85/-4.71	-0.370/0.32	-1.76/-2.82	-6.60/-10.50	-9.64/-9.43	-7.71/-4.61	-1.56/-3.51	-7.05/-2.72	-2.12/-3.45	-6.70/-7.19	-10.32/-14.19
Θ(127.5°)	-1.32/-2.25	-1.20/-5.21	-2.301/-6.8	-0.49/-0.70	-1.39/-2.50	-1.82/-0.66	0.160/6.8	1.742/3.6	2.221/3.9	-0.76/-2.25	-1.11/-0.31	-0.60/-4.13	0.14/-2.73	-1.99/-2.89	-2.26/-5.74	-3.66/-1.98	-0.04/-3.76	-5.44/-5.49	-6.29/-3.21	-4.27/-4.84	-3.09/-5.73	-4.87/-5.63	-6.91/-5.93	
Θ(135°)	-1.71/-2.14	-3.86/-8.35	-7.58/-5.30	-2.70/-1.60	-0.86/-0.41	0.160/7.1	1.721/4.8	1.370/5.6	0.970/7.5	0.630/2.9	1.010/87	0.001/-6.1	0.15/-2.21	-4.25/-6.35	-7.29/-10.67	-6.67/-2.01	-0.19/-5.55	-11.88/-9.92	-11.88/-10.23	-5.97/-8.47	-8.58/-11.56	-9.21/-9.64	-7.78/-5.28	
Θ(142.5°)	-6.41/-5.67	-6.09/-6.39	-5.53/-3.16	-1.520/0.8	0.240/6.7	0.551/0.2	0.970/9.0	0.650/0.03	0.481/1.0	-0.36/-1.47	-0.430/94	1.540/4.3	-0.21/-2.15	-2.99/-8.88	-8.42/-5.85	-6.96/-5.78	-9.32/-5.99	-6.66/-10.79	-10.51/-11.80	-11.99/-10.15	-6.01/-4.87	-5.02/-6.32	-9.70/-9.11	-5.17/-7.07
Θ(150°)	-4.04/-1.76	-1.41/-1.36	-2.15/-2.40	-4.98/-3.74	-2.15/-1.15	-0.67/-0.27	-0.38/-0.70	-0.410/0.3	-0.60/-0.83	-0.64/-0.79	-0.65/-0.68	-1.56/-1.97	-2.15/-1.66	-1.55/-1.42	-0.390/6.5	-0.23/-2.32	-4.91/-6.73	-6.42/-6.51	-3.63/-2.75	-2.73/-3.60	-4.69/-3.29	-1.56/-2.77	-6.28/-10.03	-7.89/-5.90
Θ(157.5°)	-5.27/-6.55	-6.91/-5.87	-4.33/-4.12	-3.82/-3.85	-3.44/-2.85	-2.33/-2.35	-2.53/-3.11	-3.97/-3.65	-2.33/-1.70	-0.721/-14	1.961/6.7	1.121/-1.7	0.770/-1.7	-2.09/-3.78	-4.51/-4.35	-4.77/-5.75	-7.09/-7.46	-7.19/-7.12	-7.51/-8.20	-7.97/-10.54	-13.07/-10.54	-6.62/-6.11	-6.18/-4.20	-3.14/-3.56
Θ(165°)	-8.23/-4.78	-8.31/-8.49	-8.10/-7.46	-6.20/-5.66	-5.33/-4.91	-4.29/-3.64	-2.76/-1.85	-0.870/1.1	0.831/7.3	2.412/0.8	1.330/1.0	-0.56/-1.03	-2.68/-5.52	-8.49/-7.60	-5.44/-4.19	-3.58/-2.81	-2.39/-2.22	-2.53/-2.81	-3.12/-3.91	-5.53/-7.72	-9.72/-11.12	-10.77/-8.97	-3.76/-7.52	-5.93/-5.48
Θ(172.5°)	-8.88/-8.42	-8.88/-9.33	-9.88/-11.09	-10.71/-9.58	-7.77/-6.14	-4.50/-3.98	-2.82/-1.91	-1.25/-1.01	-1.21/-1.70	-2.24/-2.40	-1.96/-1.81	-2.19/-3.34	-5.03/-6.34	-6.34/-5.47	-5.05/-5.33	-6.06/-7.46	-9.59/-12.46	-14.06/-13.26	-12.52/-10.52	-9.76/-9.75	-9.85/-9.94	-9.40/-8.64	-8.95/-8.45	-9.65/-9.50
Θ(180°)	-4.14/-4.09	-4.02/-4.35	-4.02/-4.06	-4.07/-4.04	-3.72/-3.37	-2.80/-1.96	-1.78/-1.92	-1.78/-1.38	-0.78/-1.00	-1.22/-1.30	-1.46/-1.69	-2.26/-3.30	-4.26/-5.03	-5.73/-7.16	-9.29/-11.24	-9.93/-8.28	-6.80/-5.32	-4.33/-3.89	-4.04/-3.82	-3.67/-3.28	-3.26/-3.44	-3.88/-4.30	-4.21/-4.42	-4.44/-4.32
Freq(Hz)	5.6GPol.	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°)	-2.17/-1.72	-1.36/-0.77	-1.01/-1.37	-1.47/-0.97	-0.76/-0.81	-0.86/-0.80	-1.01/-1.39	-1.19/-1.35	-1.12/-1.03	-0.74/-0.70	-0.57/-0.28	0.060/0.38	0.681/0.2	1.071/3.1	1.260/87	0.191/0.63	-0.90/-0.92	-1.16/-1.90	-2.42/-2.29	-2.27/-2.99	-1.37/-1.11	-0.92/-0.71	-1.16/-1.69	-1.93/-1.81
Θ(7.5°)	-0.09/-0.06	0.410/2.6	0.590/0.19	-0.16/-0.14	-0.21/-0.48	-0.76/-0.80	-0.60/-0.90	-2.72/-3.37	-3.19/-2.01	-1.78/-2.04	-1.98/-1.59	-1.17/-1.06	-0.92/-0.89	-0.290/0.36	0.52/-0.68	-1.42/-1.97	-1.85/-1.80	-1.75/-2.01	-2.19/-1.91	-1.26/-0.85	-0.76/-0.38	0.020/1.7	-0.07/-0.44	-0.56/-0.13
Θ(15°)	1.861/94	2.251/7.9	1.561/1.8	0.960/7.5	0.430/3.2	0.02/-0.42	-0.69/-1.10	-1.93/-2.65	-2.84/-2.34	-2.19/-2.53	-2.61/-2.48	-2.77/-2.93	-2.43/-2.01	-1.84/-1.91	-2.25/-2.78	-3.26/-3.64	-3.28/-2.63	-2.22/-2.42	-3.29/-4.40	-4.58/-4.28	-4.48/-5.48	-3.58/-1.91	-0.530/-4.3	1.362/0.06
Θ(22.5°)	3.283/0.6	1.971/3.6	0.710/9.7																					

E1(XY plane) – $\Theta(90)\Phi(0-360)$
E2(XZ plane) – $\Theta(0-180)\Phi(0)$ and $\Theta(0-180)\Phi(180)$
E3(YZ plane) – $\Theta(0-180)\Phi(90)$ and $\Theta(0-180)\Phi(270)$







Antenna Pattern_6GHz

Appendix D

Total Gain Data

Freq(Hz)	6.175GPol.	TotalAnt. 1	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-		
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-4.91-6.68	-3.95-3.79	-3.62-0.48	-4.55-4.65	-4.33-4.11	-3.52-3.63	-4.26-3.40	-4.53-5.10	-5.26-4.40	-4.28-4.78	-5.51-5.92	-5.38-5.08	-5.16-5.50	-6.72-7.23	-7.69-8.18	-8.58-8.66	-8.36-7.18	-6.28-5.97	-5.87-5.70	-5.54-5.53	-5.12-5.19	-5.33-5.33	-5.75-4.49	-3.84-3.59
Θ(7.5°)	-4.77-6.51	-4.86-6.51	-5.05-5.82	-7.02-7.00	-7.62-8.06	-8.13-8.02	-7.73-8.33	-7.46-6.49	-5.61-5.50	-5.58-5.59	-6.73-6.43	-4.03-4.05	-4.19-3.79	-3.30-3.38	-3.47-4.10	-4.94-3.96	-2.74-2.18	-3.23-4.18	-2.67-2.68	-3.86-5.15	-5.76-5.01	-4.15-3.93		
Θ(15°)	-5.89-6.32	-6.59-8.13	-9.33-12.32	-11.99-9.90	-8.24-8.32	-7.99-8.30	-10.38-9.99	-8.43-7.28	-7.06-7.52	-7.35-6.10	-5.59-5.46	-5.77-5.10	-3.96-3.01	-2.66-2.68	-3.03-3.84	-4.76-5.24	-5.57-5.63	-5.52-6.24	-6.95-7.92	-7.72-8.62	-6.92-6.07	-7.02-7.49	-7.32-6.23	-4.69-4.66
Θ(22.5°)	-7.43-6.61	-7.72-7.52	-7.17-7.53	-8.36-8.32	-8.20-8.35	-6.39-4.85	-4.54-4.93	-5.32-5.34	-5.27-5.83	-6.81-6.54	-6.17-5.41	-4.66-2.64	-1.07-0.20	-0.09-0.62	-1.87-3.30	-4.68-5.56	-6.18-0.62	-6.35-7.51	-8.06-0.87	-6.68-5.96	-6.90-8.30	-10.03-9.61	-8.15-6.54	-5.82-6.85
Θ(30°)	-10.42-10.13	-9.11-6.92	-6.55-7.40	-7.47-6.26	-5.86-5.39	-5.03-4.23	-3.17-2.24	-1.55-1.38	-1.57-2.53	-4.16-5.18	-4.94-3.54	-3.15-3.57	-2.54-1.73	-1.25-1.18	-2.28-4.15	-5.75-6.21	-6.26-6.05	-5.90-5.75	-6.62-8.16	-9.38-10.36	-7.85-5.29	-5.27-5.82	-5.67-5.39	-7.22-8.64
Θ(37.5°)	-4.68-4.67	-3.63-4.05	-6.43-6.97	-6.75-6.63	-6.83-5.85	-6.60-7.17	-6.19-4.15	-3.03-2.46	-1.70-1.35	-1.28-1.75	-1.87-1.08	-0.66-1.79	-2.74-1.48	0.52/1.00	-0.54-2.51	-2.67-1.80	-1.17-1.31	-2.43-4.46	-6.31-8.17	-11.78-10.87	-7.54-4.99	-3.97-5.61	-7.70-5.82	-3.32-3.23
Θ(45°)	-3.37-2.56	-2.28-2.56	-3.11-4.73	-4.94-3.60	-2.27-4.39	-7.47-12.72	-14.65-12.45	-8.98-6.12	-3.36-1.57	-0.62-0.36	0.39/1.10	0.42-0.27	-1.94-0.19	1.30-0.41	-1.78-2.95	-2.75-1.84	-1.09-0.76	-0.51-0.69	-2.52-6.82	-13.97-11.90	-4.26-2.34	-3.52-4.97	-4.67-3.53	-3.00-2.34
Θ(52.5°)	-1.99-4.70	-4.68-3.66	-3.03-4.62	-2.82-2.04	-3.31-4.20	-5.39-4.92	-3.31-1.98	-1.86-2.93	-3.40-3.54	-2.97-3.13	-1.40-1.70	1.04-0.99	-1.57-0.74	1.78/1.43	0.68-0.20	0.56-0.62	-0.28-0.79	-1.90-3.20	-4.13-7.49	-10.35-3.70	-0.76-0.57	1.31/0.26	-0.92-1.78	-2.90-2.16
Θ(60°)	0.32-2.84	-1.32-1.75	-4.07-3.26	-2.92-3.86	-4.00-4.24	-4.62-3.89	-2.40-1.49	-1.10-0.84	-2.43-1.77	-0.94-2.71	-2.43/1.18	0.90-0.43	-1.89-0.17	1.55-0.16	1.30-0.03	0.00-0.43	-0.08-0.89	-3.07-5.14	-8.88-11.67	-8.00-2.26	0.76-0.66	2.69/2.24	0.95-1.27	-4.01-5.01
Θ(67.5°)	-0.10-1.36	-0.33-0.48	-3.80-3.46	-2.80-3.39	-2.11-2.16	-2.25-1.33	-1.03-1.24	-1.97-1.10	-0.74-1.47	-1.04-1.49	-1.32/1.03	2.20-2.17	-2.36-1.24	4.06/4.61	2.83-0.62	-0.41-0.47	-2.07-3.12	-6.17-7.08	-11.91-7.48	-3.17-0.61	1.66-0.58	3.71/2.09	1.66-0.25	1.08-0.96
Θ(75°)	-1.15-1.53	-2.30-5.84	-8.24-3.03	-1.70-0.58	1.22-1.20	4.22-0.36	1.62/1.41	1.16/1.91	2.44-0.83	2.03-2.71	-3.14-0.12	0.96-0.86	-3.11-0.70	3.25-0.11	2.65-0.01	-0.95-2.30	-1.96-3.36	-5.43-5.96	-8.79-9.72	-6.36-3.21	0.63-0.17	2.58/2.23	1.54-0.32	0.56-0.58
Θ(82.5°)	-1.56-1.47	-1.02-3.51	-1.06-0.19	1.60-0.91	0.94-1.91	-4.60-0.14	2.42/1.28	-1.25-0.16	1.01-0.49	0.78-0.94	-2.14-2.19	1.24-1.92	-2.23-0.39	4.89-0.28	3.19-0.08	0.03-0.15	1.22-1.62	-5.44-6.38	-9.37-6.03	-3.13-1.80	1.89-0.49	3.00-0.42	1.42-1.06	-1.03-0.71
Θ(90°)	1.54-1.43	0.95-0.90	0.29-1.75	1.51-0.14	2.54-0.76	-9.91-2.23	5.20-0.71	1.62-0.91	0.63-0.92	0.48-0.69	-2.69-1.96	0.25-1.51	-3.66-2.58	2.80-0.55	2.77-0.60	-0.63-0.12	2.36-2.30	-6.20-8.71	-6.07-4.74	-2.17-0.91	2.82-0.62	1.95-0.80	1.08-0.37	-0.26-0.31
Θ(97.5°)	3.18-2.30	1.49-1.72	0.27-2.82	-0.33-4.40	2.07-0.27	-3.97-2.22	2.25-1.66	0.65-0.90	-2.39-2.98	-3.01-1.68	-0.61-2.96	-2.95-1.23	2.78-0.68	3.66-1.68	-1.76-2.78	2.08-0.62	-1.86-1.58	-1.06-0.76	-0.13-0.50	1.84-0.27	3.57-0.72	0.06-0.58	1.53-0.69	
Θ(105°)	1.90-4.19	2.05-3.08	-1.31-1.25	-0.34-12.40	0.07-1.62	-2.42-3.74	4.64-0.82	0.12-5.72	-0.86-1.05	1.41-0.02	-3.88-5.70	-3.77-2.10	-3.39-4.41	-1.83-0.83	0.90-0.67	0.42-0.12	-3.80-2.65	-0.04-0.58	-0.06-0.37	-2.11-1.95	1.96-0.33	3.06-0.10	-1.90-1.13	2.00-0.40
Θ(112.5°)	-0.83-6.01	0.57-8.20	-2.03-0.17	-1.75-8.41	-0.31-1.61	-4.15-0.94	2.22-1.65	-3.56-10.09	0.34-1.59	2.58-0.22	-2.37-5.07	-3.31-1.14	-1.66-2.33	-0.26-1.13	0.32-1.28	0.35-1.92	4.21-2.86	1.85-1.32	-0.95-1.86	-4.18-8.00	-0.47-2.54	1.51-1.33	-0.15-1.77	3.92-0.16
Θ(120°)	-3.50-5.42	0.26-6.45	-3.08-3.06	-0.09-3.32	-1.99-0.21	-1.06-1.66	-1.68-3.41	-8.81-6.33	-0.54-0.33	1.55-0.08	-1.68-6.23	-3.27-1.38	-1.29-3.19	-2.73-3.04	-6.18-1.61	-2.30-1.86	-0.21-0.27	0.99-1.39	-0.06-1.28	-4.08-6.45	-3.79-0.23	-2.72-3.31	1.19-1.37	2.28-0.73
Θ(127.5°)	-8.92-3.31	-1.88-11.41	-5.46-1.28	-2.06-3.94	-6.09-1.35	-2.94-5.78	-1.73-12.01	-13.75-6.12	-2.40-2.52	-1.94-1.85	-3.59-3.71	-1.14-0.03	-0.56-1.69	-1.39-2.02	-5.00-1.07	-0.52-0.88	-0.11-0.22	-0.87-0.64	0.80-1.61	-4.37-1.52	-0.83-1.15	-1.22-1.10	0.71-1.15	3.77-0.50
Θ(135°)	-6.74-4.28	-3.50-6.97	-6.33-5.38	-1.71-5.65	-8.11-6.89	-5.48-6.06	-6.77-5.13	-5.18-6.18	-4.06-6.75	-8.05-10.41	-9.02-4.01	-1.11-0.74	-2.44-2.25	0.33-2.54	-8.71-5.72	0.08-1.29	-2.87-2.62	-5.13-4.50	3.24-1.67	-7.98-2.85	-0.16-1.20	1.79-0.44	0.04-0.78	2.92-0.65
Θ(142.5°)	-4.01-5.87	-2.26-3.42	-9.10-6.73	-4.01-5.68	-8.80-9.97	-10.27-8.44	-6.40-8.01	-8.73-7.92	-10.59-8.44	-10.76-10.96	-8.71-9.28	-4.87-3.27	-6.17-1.93	-1.77-3.52	-7.00-3.91	-1.28-0.92	3.07-1.26	-12.63-8.44	3.13-1.27	-10.89-6.99	-0.67-1.16	1.53-1.81	-1.34-0.62	-0.45-2.95
Θ(150°)	-7.43-6.50	-5.25-4.01	-6.04-6.72	-3.67-6.08	-4.84-6.21	-9.85-9.87	-9.87-1.96	-7.14-8.80	-12.59-13.58	-8.90-7.65	-1.98-2.24	-4.91-6.47	-6.07-7.10	-1.85-0.41	-8.84-4.81	-4.26-9.22	-10.22-5.43	-0.05-2.76	-8.02-13.20	-7.31-3.31	-1.77-2.15	-0.42-1.08	0.10-2.45	
Θ(157.5°)	1.05-1.77	-3.88-3.98	-3.93-4.39	-3.99-4.52	-6.51-9.04	-9.79-10.65	-12.19-11.19	-9.01-7.21	-7.00-11.07	-8.76-5.26	-4.99-7.07	-9.86-10.42	-8.60-6.91	-7.96-6.22	-4.37-6.17	-7.44-4.31	-3.44-5.06	-6.16-6.13	-6.34-6.61	-5.43-4.15	-3.56-1.77	-0.34-0.20	0.53-1.44	3.13-2.94
Θ(165°)	-2.53-5.38	-3.79-7.10	-9.60-8.67	-7.71-7.24	-6.09-4.56	-6.84-7.86	-10.16-10.30	-7.75-7.08	-8.54-7.97	-6.17-6.21	-7.19-7.34	-6.28-3.98	-1.64-0.44	-1.04-1.78	-3.45-5.20	-5.77-6.55	-9.12-14.25	-16.27-13.00	-10.77-9.85	-8.37-7.35	-7.25-6.81	-4.77-7.29	-1.43-0.69	0.15-0.60
Θ(172.5°)	-3.17-4.78	-6.80-9.66	-10.44-11.95	-12.51-11.19	-11.83-13.67	-16.93-15.19	-15.91-14.50	-11.74-9.53	-8.15-9.02	-7.89-7.36	-7.20-6.87	-5.07-8.40	-3.73-2.98	-2.84-3.46	-5.07-8.04	-9.27-8.41	-8.01-7.45	-7.10-6.59	-6.21-6.19	-5.43-4.34	-3.28-3.74	-5.13-6.85	-7.32-6.66	-5.58-4.41
Θ(180°)	-6.04-5.79	-5.24-4.55	-4.15-4.66	-3.86-2.42	-1.18-0.89	-0.64-0.15	-0.70-1.41	-1.94-2.24	-2.08-1.94	-1.98-2.69	-3.40-4.04	-4.40-4.11	-3.92-5.02	-5.40-5.62	-6.18-6.31	-6.21-5.63	-5.38-5.08	-4.58-4.18	-3.01-2.94	-2.65-3.24	-3.07-3.96	-4.81-5.54	-6.90-6.55	-6.28-5.97
Freq(Hz)	6.175GPol.	TotalAnt. 1	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-2.81-3.08	-3.93-4.49	-3.40-2.64	-2.32-2.53	-3.41-3.16	-2.59-2.12	-2.20-3.05	-3.94-4.28	-4.15-3.04	-3.55-3.96	-4.13-3.42	-2.79-3.01	-3.71-4.72	-4.86-4.43	-3.74-3.89	-4.31-5.15	-5.02-4.43	-3.61-3.83	-4.34-3.95	-4.22-3.52	-3.94-4.09	-3.67-3.46	-2.89-1.89	-1.44-1.85
Θ(7.5°)	-3.06-3.11	-4.28-4.75	-4.70-3.48	-4.03-3.48	-3.63-3.35	-3.78-3.31	-4.55-4.04	-3.76-4.33	-4.42-4.08	-3.08-3.24	-3.50-3.57	-3.14-2.98	-2.60-2.68	-3.10-3.00	-2.78-2.96	-3.11-3.48	-3.84-3.96	-3.51-2.62	-2.94-3.06	-4.75-4.93	-3.90-3.05	-2.67-3.16	-3.94-3.53	-2.97-2.65
Θ(15°)	-3.32-3.55	-3.88-4.29	-4.59-3.92	-4.28-4.93	-6.20-7.77	-8.09-8.88	-9.68-10.38	-9.36-7.67	-7.59-7.34	-7.79-7.45	-7.12-5.67	-4.85-4.45	-4.32-4.22	-4.30-4.44	-4.27-4.34	-4.54-5.29	-6.44-6.61	-5.61-4.36	-3.72-4.02	-5.87-7.26	-6.49-5.98	-7.53-5.42	-4.04-3.18	
Θ(22.5°)	-4.14-4.35	-4.93-5.53	-5.72-6.30	-7.83-9.17	-10.41-10.69	-9.63-8.85	-8.42-8.34	-8.61-7.67	-6.28-6.45	-6.49-6.58	-6.44-6.04	-5.05-4.40	-3.88-3.16	-3.31-3.39	-4.22-4.77	-5.17-5.64	-6.19-6.12	-5.13-3.82	-3.39-3.68	-5.75-6.98	-4.82-3.59	-3.53-5.18	-8.48-8.47	-5.41-4.30
Θ(30°)	-6.32-3.73	-8.54-8.50	-10.73-11.96	-12.52-12.65	-9.40-7.77	-5.31-4.35	-4.13-4.16	-4.45-4.19	-3.40-2.09	-1.27-1.41	-2.25-3.28	-3.58-3.38	-2.57-1.94	-1.75-2.47	-3.41-4.17	-4.76-5.30	-5.07-3.47	-3.48-3.22	-3.34-3.16	-4.08-5.79	-6.76-4.79	-2.95-3.15	-4.53-5.04	-12.12-9.22
Θ(37.5°)	-4.19-7.60	-8.94-6.45	-6.44-7.95	-6.94-6.69	-6.19-6.69	-7.92-5.97	-6.81-4.56	-3.03-2.02	-1.64-1.04	-0.45-0.78	-0.91-1.27	-2.30-2.86	-1.02-0.26	0.47-0.34	-1.24-1.47	-1.86-1.35	-0.36-1.39	-1.67-1.44	-0.52-1.16	-2.67-4.48	-6.66-6.81	-7.61-4.32	-2.95-4.41	-5.43-3.89
Θ(45°)	-1.01-4.09	-5.88-6.27	-7.06-6.29	-5.28-6.24	-5.42-5.91	-7.0																		



Antenna Pattern_6GHz

Appendix D

Θ(22.5°)	-0.550/8.3	1.120/1.4	-0.140/0.8	0.791/62	2.031/86	1.661/52	1.331/15	0.880/68	0.18/-0.49	-1.25/-1.69	-1.63/-1.64	-1.24/-0.91	-1.28/-1.96	-2.58/-2.38	-3.24/-4.67	-6.97/-8.71	-8.04/-6.75	-4.79/-3.33	-2.07/-1.19	0.18/0.96	0.95/0.50	0.25/-0.39	-1.36/-2.41	-2.01/-1.61
Θ(30°)	-2.20/-1.09	-0.53/-0.72	-0.88/-0.13	1.32/-1.92	1.86/-1.47	1.39/-1.99	2.632/86	2.842/68	2.422/25	2.03/-66	0.86/-44	0.01/-0.75	-1.17/-1.15	-0.64/-1.01	-2.75/-5.04	-7.14/-8.52	-8.42/-8.13	-8.13/-6.03	-4.05/-2.84	-2.68/-1.80	-0.33/-0.40	-1.73/-2.81	-3.15/-2.98	
Θ(142.5°)	-2.40/-1.57	-0.39/-0.35	0.882/06	2.693/16	3.292/70	2.891/07	2.261/16	1.14/-169	1.97/-165	1.420/75	-0.100/-77	1.080/22	-0.85/-0.99	-0.88/-1.33	-1.55/-1.28	-2.95/-6.15	-8.77/-10.21	-9.71/-8.51	-9.71/-11.25	-9.06/-6.58	-4.02/-2.17	-1.86/-1.66	-1.79/-2.86	-3.40/-2.39
Θ(45°)	-1.41/-0.85	0.230/1.0	-0.34/-1.39	3.243/73	3.202/94	2.562/28	2.492/02	1.430/70	0.310/19	0.420/21	-0.59/-0.30	-0.98/-1.94	-2.77/-4.05	-5.64/-4.49	-1.99/-2.44	-5.30/-6.87	-6.78/-6.86	-8.58/-7.95	-7.14/-8.55	-10.34/-11.10	-7.63/-3.89	-1.83/-1.19	-2.03/-3.02	-2.54/-1.88
Θ(52.5°)	1.010/74	-0.97/-1.09	1.292/47	4.383/38	2.461/22	0.760/91	1.681/90	1.541/25	1.130/21	-0.23/-1.10	-2.24/-2.17	-2.45/-2.06	-2.43/-4.80	-5.22/-3.66	-6.35/-5.13	-5.05/-11.30	-14.77/-16.07	-15.33/-15.35	-10.96/-8.80	-10.02/-12.62	-11.50/-8.55	-6.46/-6.57	-5.75/-2.67	-1.730/06
Θ(60°)	1.501/94	1.55/-0.82	0.923/51	4.363/60	2.321/62	2.652/77	2.912/74	2.732/84	2.430/90	-0.38/-0.47	-1.62/-3.09	-4.42/-2.70	-2.47/-2.46	-6.04/-8.14	-4.86/-6.01	-5.08/-3.54	-4.76/-4.68	-1.79/-12.00	-9.99/-8.21	-10.27/-11.34	-9.76/-4.77	-4.16/-5.18	-4.55/-0.81	0.63/-15
Θ(67.5°)	0.780/95	0.02/-0.57	-0.73/2.25	2.861/87	0.530/49	2.543/77	3.553/28	3.293/22	2.380/71	-0.47/-0.65	-3.37/-4.67	-3.89/-3.71	-0.75/-1.17	-1.27/-2.91	-4.04/-0.71	-2.54/-2.22	-3.30/-4.78	-7.14/-13.75	-9.96/-8.70	-9.55/-8.52	-6.16/-3.47	-2.68/-3.06	-3.27/-1.78	0.160/46
Θ(75°)	-0.041/-1.79	-0.07/-0.12	-0.27/-2.12	2.701/87	1.161/77	3.433/85	3.251/81	1.972/74	2.490/41	-1.55/-1.78	-3.89/-7.55	-7.52/-4.55	-2.29/-0.56	1.29/-26	-0.23/-0.60	-0.12/-0.70	-0.92/-2.94	-3.64/-6.23	-8.14/-8.00	-8.04/-7.37	-3.90/-2.20	-0.95/-0.40	-1.42/-1.56	0.101/14
Θ(82.5°)	1.913/55	2.262/28	0.080/93	2.122/69	2.221/09	1.692/97	2.771/70	1.522/90	3.110/58	-4.50/-4.03	-6.92/-8.68	-5.26/-1.44	0.04/-149	3.38/-12	1.08/-0.42	0.38/-0.75	0.03/-0.51	-1.79/-3.72	-7.14/-8.75	-6.76/-6.11	-0.780/78	1.59/-1.33	-0.35/-0.27	0.622/06
Θ(90°)	3.275/22	4.112/88	0.10/-0.54	3.433/87	2.651/06	0.532/02	1.721/11	0.552/21	2.93/-0.37	-4.54/-4.59	-10.02/-15.89	-9.19/-4.68	-1.95/-0.53	2.18/-1.78	-1.96/-1.39	-0.23/-1.07	0.68/-1.53	-2.79/-1.93	-4.11/-3.30	-1.100/20	2.553/95	3.372/44	1.26/-3.33	-1.52/-1.49
Θ(97.5°)	4.555/80	4.37/-1.99	-1.04/-0.08	2.082/58	1.47/-0.76	-2.270/52	1.08/-1.21	-1.470/51	0.67/-5.21	-9.45/-1.76	-9.69/-14.49	-8.58/-4.22	-3.87/-0.51	2.59/-1.78	-4.19/-1.34	0.532/55	1.710/95	-5.07/-3.91	-1.672/-1.20	2.072/30	3.664/91	3.40/-1.03	1.51/-1.32	-2.162/67
Θ(105°)	6.057/65	5.233/58	-0.100/85	2.302/95	0.83/-2.06	-5.69/-1.44	-2.54/-3.72	-5.23/-4.25	-4.73/-9.33	-15.84/-9.22	-14.15/-11.97	-14.16/-5.24	-1.82/-1.26	0.110/32	-5.47/-0.71	-0.64/-2.14	-0.61/-2.26	-3.24/-2.32	-0.68/-1.98	3.201/33	3.343/48	2.43/-1.13	0.422/20	1.726/31
Θ(112.5°)	6.257/11	5.483/36	1.262/41	3.212/99	1.55/-1.40	-9.66/-9.76	-7.54/-10.67	-16.15/-9.54	-8.10/-7.92	-13.64/-10.27	-13.97/-13.14	-10.62/-6.76	-3.30/-3.07	-0.52/-1.59	-6.07/-8.04	-7.01/-1.63	-1.33/-9.81	-1.18/-0.58	-0.62/-0.98	1.161/34	1.550/05	-0.60/-1.83	1.871/89	2.585/31
Θ(120°)	4.665/09	4.350/22	0.261/28	2.642/00	1.52/-2.03	-3.24/-6.37	-5.57/-5.80	-5.64/-5.82	-7.52/-8.46	-8.80/-11.73	-12.45/-7.56	-9.25/-6.60	-7.96/-1.36	-3.02/-5.57	-6.36/-6.29	-11.25/-7.72	-6.19/-7.39	-0.29/-1.81	-7.080/11	1.582/95	1.84/-0.08	0.882/26	1.132/72	2.814/40
Θ(127.5°)	2.481/15	0.23/-3.63	-3.710/-36	-0.310/-11	-2.75/-10	-5.73/-8.91	-8.95/-7.28	-8.32/-10.17	-9.63/-7.83	-9.51/-12.14	-12.22/-8.82	-10.64/-10.30	-1.84/-1.95	-5.230/-39	-1.66/-6.90	-6.65/-1.11	-1.52/-3.55	0.660/40	-3.94/-1.99	3.775/32	2.090/64	1.655/54	5.41/-3.03	1.280/76
Θ(135°)	1.994/16	2.632/51	1.680/24	0.62/-2.05	-0.80/-2.37	-10.89/-15.28	-9.15/-5.66	-5.13/-7.98	-10.36/-8.37	-8.15/-11.15	-12.87/-14.77	-9.99/-9.58	-2.71/-5.01	-5.88/-5.84	-8.82/-4.98	1.171/07	-8.763/23	4.382/44	-1.40/-0.80	4.655/35	5.39/-2.07	-4.594/94	5.15/-0.43	-0.722/81
Θ(142.5°)	0.751/83	2.300/26	0.79/-1.63	-3.88/-2.12	-2.67/-3.18	-5.95/-11.14	-12.05/-11.16	-11.80/-15.76	-16.05/-14.53	-12.30/-13.40	-10.50/-5.55	-7.88/-10.25	-9.73/-8.27	-9.28/-4.65	-14.54/-4.15	-0.54/-0.65	-2.02/-1.38	3.632/08	-0.90/-1.22	3.383/34	4.02/-6.77	-2.75/-1.05	1.03/-1.67	-2.031/94
Θ(150°)	-2.14/-2.33	-0.160/-72	-0.70/-2.99	-1.07/-2.32	-6.71/-8.45	-12.45/-12.13	-7.84/-6.78	-10.00/-15.66	-16.70/-16.17	-16.16/-11.96	-11.73/-15.55	-12.18/-13.76	-10.26/-13.98	-6.37/-3.20	-8.41/-9.64	-12.44/-8.19	-7.28/-2.80	-0.68/-1.68	-2.39/-2.07	-1.49/-1.17	0.541/82	-0.31/-0.30	-0.54/-3.62	-4.69/-2.98
Θ(157.5°)	-0.09/-1.63	1.501/-39	1.110/-34	-1.08/-2.64	-5.47/-7.60	-9.92/-13.62	-14.21/-16.09	-16.59/-16.28	-14.80/-12.85	-12.51/-12.14	-12.88/-13.28	-11.88/-8.06	-7.14/-9.92	-12.12/-8.82	-5.39/-5.66	-4.91/-3.49	-4.72/-5.66	-6.52/-7.69	-8.05/-5.89	-3.09/-2.27	-2.75/-2.46	-2.04/-3.10	-3.35/-3.90	-3.13/-1.80
Θ(165°)	-2.44/-1.17	-0.15/-0.13	-0.72/-0.80	-1.01/-1.47	-2.69/-4.90	-5.86/-7.06	-6.70/-5.55	-6.52/-5.82	-8.65/-8.92	-11.57/-12.43	-11.39/-10.72	-9.18/-7.55	-6.97/-7.47	-10.00/-11.39	-10.74/-8.01	-4.34/-1.93	-1.66/-3.10	-5.50/-6.88	-6.90/-8.30	-8.46/-8.01	-6.74/-6.39	-4.17/-2.87	-1.60/-2.08	-3.89/-3.88
Θ(172.5°)	-3.30/-3.32	-3.14/-3.70	-4.48/-5.56	-5.36/-4.01	-4.11/-6.27	-7.98/-10.36	-14.20/-16.27	-16.28/-13.80	-12.72/-13.07	-15.33/-16.22	-16.69/-13.78	-11.53/-10.82	-11.77/-12.46	-12.91/-12.22	-11.18/-10.83	-8.86/-7.25	-6.86/-7.12	-6.58/-7.00	-8.14/-9.48	-8.06/-6.07	-3.60/-1.67	-1.11/-1.26	-1.71/-2.98	-3.03/-3.10
Θ(180°)	-6.98/-8.98	-9.09/-7.29	-6.57/-6.87	-6.71/-9.28	-10.77/-9.51	-7.67/-6.75	-5.73/-5.74	-7.52/-8.19	-10.66/-6.16	-6.41/-8.13	-10.40/-11.79	-11.11/-10.48	-10.47/-11.17	-12.98/-12.34	-10.37/-9.82	-10.95/-12.46	-13.30/-13.39	-13.29/-12.70	-11.66/-9.58	-8.13/-6.48	-5.29/-4.96	-5.53/-6.21	-7.07/-6.46	-6.22/-7.36
Freq(Hz)	6.4750GPd.	TotalAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-5.79/-4.59	-4.27/-4.21	-5.43/-5.17	-5.31/-5.60	-4.35/-3.84	-2.89/-3.07	-4.29/-4.38	-3.62/-3.06	-2.71/-2.19	-1.84/-1.99	-2.06/-2.10	-2.29/-2.79	-2.91/-3.14	-2.95/-2.72	-2.54/-2.72	-3.05/-3.05	-3.28/-3.08	-3.42/-3.86	-4.06/-3.80	-3.93/-3.58	-3.20/-3.12	-3.70/-3.72	-3.64/-4.68	
Θ(7.5°)	-1.47/-0.87	-0.67/-2.04	-2.26/-1.79	-2.17/-2.42	-2.46/-2.51	-2.95/-2.59	-3.11/-3.63	-4.04/-4.96	-5.03/-4.52	-3.50/-3.10	-3.35/-3.90	-4.80/-5.91	-6.75/-6.71	-5.81/-5.42	-4.74/-5.04	-5.78/-5.57	-5.90/-3.80	-3.28/-2.92	-2.70/-2.47	-3.27/-2.53	-2.91/-1.99	-1.42/-1.39		
Θ(15°)	0.070/26	1.222/-0.28	0.390/38	0.340/57	0.820/71	0.270/23	-0.58/-0.72	-1.46/-1.73	-2.12/-2.41	-2.71/-2.81	-3.51/-1.04	-4.75/-5.58	-6.77/-8.48	-10.25/-11.30	-11.36/-11.11	-9.50/-7.97	-6.57/-5.62	-4.13/-2.53	-1.53/-0.49	0.350/77	0.961/41	1.351/17	1.141/25	1.590/84
Θ(22.5°)	-1.45/-1.29	-1.86/-1.14	-0.130/-67	1.201/24	1.881/75	0.990/20	-0.240/33	0.470/13	-0.30/-0.56	-0.77/-1.04	-1.85/-2.37	-2.54/-2.46	-2.46/-2.77	-3.58/-5.18	-6.95/-9.83	-13.90/-13.08	-10.62/-8.97	-7.10/-5.66	-4.34/-3.75	-3.17/-2.49	-1.24/-0.47	0.750/63	0.600/-42	0.65/-0.86
Θ(30°)	-1.41/-2.31	-0.82/-1.03	2.363/01	2.942/92	3.063/06	2.832/68	1.280/94	0.610/58	0.951/54	1.891/79	1.260/46	0.070/01	-1.16/-0.58	-1.84/-4.32	-8.15/-14.50	-16.59/-13.21	-10.62/-9.83	-8.22/-6.60	-4.77/-4.18	-3.27/-2.31	-1.23/-0.35	0.30/-0.23	-0.50/-0.91	
Θ(37.5°)	0.301/78	2.631/48	0.38/-0.39	0.681/96	2.852/91	3.023/04	2.341/98	1.570/92	0.691/08	1.652/59	2.982/61	1.610/56	1.112/02	0.960/-41	-1.74/-3.95	-6.66/-8.39	-10.91/-12.50	-12.19/-9.07	-5.13/-4.59	-5.68/-6.59	-12.50/-8.92	-5.51/-2.16	-0.34/-0.10	-0.280/76
Θ(45°)	1.602/01	2.170/-79	-0.131/43	3.354/07	3.853/15	2.912/85	2.311/72	0.43/-0.74	-1.01/-0.84	-0.220/97	1.942/28	1.700/09	0.530/-12	-1.37/-1.51	-2.68/-2.85	-3.27/-5.72	-10.14/-12.92	-9.80/-5.71	-5.40/-6.93	-8.56/-10.35	-7.24/-4.43	-1.88/-0.50	1.222/02	
Θ(52.5°)	2.893/12	3.501/09	-0.191/03	3.603/04	3.172/58	2.422/20	1.590/69	-0.01/-0.81	-1.51/-1.19	-0.76/-1.02	-1.04/-22	-1.07/-1.95	-5.04/-8.59	-3.70/-2.40	-1.76/-5.77	-9.67/-1.11	-9.48/-10.05	-10.39/-10.08	-10.70/-11.58	-10.39/-9.07	-8.60/-8.64	-8.10/-5.65	-1.460/72	1.882/81
Θ(60°)	2.892/47	0.890/99	-0.24/-0.02	2.743/63	2.742/01	1.601/81	1.371/27	1.952/47	1.770/78	-0.440/29	-0.78/-1.03	-2.70/-3.12	-5.09/-6.93	-6.29/-5.11	-7.83/-3.09	-2.98/-3.53	-4.01/-6.34	-6.78/-8.35	-8.12/-9.16	-9.16/-8.44	-7.59/-5.38	-4.17/-4.41	-2.71/-1.57	1.062/59
Θ(67.5°)	3.282/21	1.90/-0.14	-0.690/35	1.612/43	2.161/16	1.561/58	1.331/14	1.882/77	2.260/74	-1.010/-0.78	-0.470/-4.03	-2.90/-0.52	-2.97/-1.92	-4.31/-1.56	-1.33/-1.79	0.31/-1.87	-2.64/-6.97	-7.91/-7.41	-7.94/-6.17	-8.87/-8.40	-4.20/-3.34	-0.91/-1.16	-2.140/09	1.983/00
Θ(75°)	3.542/82	4.434/86	0.46/-0.40	1.592/93	2.431/20	1.621/58	1.260/-21	0.422/30	2.620/54	-4.15/-2.96	-2.51/-2.51	-3.82/-1.69	-2.00/-1.96	-0.72/-0.78	1.340/-182	-2.82/-1.27	-3.07/-4.72	-7.22/-6.74	-2.75/-6.52	-7.54/-6.62	-5.03/-3.79	-1.50/-1.20	-0.61/-1.16	3.484/43
Θ(82.5°)	2.284/49	5.454/86	0.89/-0.28	1.803/74	2.040/60	1.812/14	0.44/-1.55	-0.491/12	1.551/39	-7.19/-4.57	-3.62/-6.27	-9.19/-2.39	-1.700/-28	2.4										



Antenna Pattern_6GHz

Appendix D

Θ(67.5°)	-0.37/-3.21	-2.80/-0.50	0.11/2.00	3.46/3.50	2.73/0.07	-2.82/-5.83	-7.77/-8.13	-7.09/-4.38	-1.20/0.60	-0.48/-2.83	-4.20/-3.76	-2.86/-1.69	-1.08/0.09	1.54/2.29	3.06/4.06	3.82/3.49	2.42/1.33	-0.50/0.49	0.90/1.91	0.28/-2.24	-0.90/1.83	0.95/-2.09	-3.45/-5.12	-2.85/0.20
Θ(75°)	2.70/0.49	-0.83/-2.11	-0.92/2.58	3.77/3.59	1.31/-2.19	-7.04/-6.56	-4.32/-4.42	-2.51/-0.84	0.01/1.05	0.11/-0.35	-0.84/-0.47	-0.17/0.23	-1.38/-1.08	1.06/2.12	1.92/2.55	2.10/1.47	0.86/1.08	0.09/-1.61	-0.85/-1.63	0.79/-0.72	-0.44/-2.19	1.14/-2.67	-3.61/-3.30	-0.40/3.06
Θ(82.5°)	3.50/0.79	-0.36/-2.79	-2.23/0.05	1.42/1.03	-0.67/-1.75	-2.94/-3.25	-4.02/-4.68	-1.23/0.88	0.83/1.18	1.11/1.08	-0.31/-1.09	-0.30/0.51	-2.83/-0.90	2.66/0.72	1.26/1.76	1.32/0.26	1.72/2.31	3.27/2.21	-1.11/1.03	2.15/-0.78	-1.96/-2.66	0.24/-8.72	-0.02/-2.01	0.28/5.16
Θ(90°)	3.38/1.78	0.58/-1.40	-3.67/-1.01	0.30/0.89	0.13/0.41	-0.87/-2.56	-3.24/-3.49	-2.94/-0.89	0.24/1.82	2.28/1.73	0.36/-0.54	-1.02/-1.05	-2.72/-0.84	2.63/0.76	1.31/-0.62	-2.81/-2.98	-1.93/1.17	3.25/1.18	-1.02/-1.21	3.66/1.65	0.72/0.76	-1.24/-7.46	0.49/1.07	2.64/4.92
Θ(97.5°)	3.71/2.56	1.72/-0.47	-1.97/1.14	1.27/1.12	-1.05/-2.07	-1.41/-4.12	-3.32/-0.78	-0.38/-2.17	2.82/3.27	1.79/-0.17	0.83/0.43	-2.00/-4.53	-5.21/-1.56	0.12/-1.13	-0.37/0.03	-6.96/-7.70	-2.72/-1.48	3.92/2.76	-1.47/0.99	4.58/3.95	1.10/0.21	-1.90/-1.08	2.04/-2.22	1.84/4.45
Θ(105°)	3.46/3.47	4.58/3.27	1.73/2.46	1.27/-1.08	-0.80/-0.79	0.25/-0.87	-1.71/-1.83	-0.74/1.99	2.03/2.58	0.85/1.07	-0.09/-1.61	-3.67/-9.68	-8.36/-4.66	-2.12/-4.43	-3.56/-2.70	-15.39/-5.24	-3.83/-2.57	3.39/0.24	-1.92/-4.32	2.79/3.14	0.15/-2.16	-3.90/-0.08	2.10/3.42	1.64/4.69
Θ(112.5°)	4.16/4.22	4.33/2.88	1.22/0.30	0.78/-0.97	-0.00/-0.20	1.82/3.47	1.63/-1.06	0.27/0.98	0.66/-0.28	-1.43/-1.18	-2.19/-2.98	-6.54/-7.92	-6.81/-7.51	-3.84/-5.08	-11.95/-10.05	-14.69/-5.18	-6.49/-8.49	-1.85/-6.86	-5.15/-15.18	-0.21/0.66	-2.96/-2.51	0.24/-0.89	0.72/2.46	2.86/4.88
Θ(120°)	2.48/1.35	0.83/0.27	0.26/1.67	2.05/2.32	1.79/3.25	3.26/2.56	1.46/0.24	-0.51/0.82	1.37/-0.01	-1.00/-0.84	-2.02/-2.38	-5.66/-6.05	-7.85/-9.65	-4.65/-5.12	-8.18/-7.25	-7.75/-9.21	-4.35/-3.42	-1.13/-5.63	-13.30/-10.68	-0.49/-0.14	-3.42/-2.72	-1.56/-0.98	1.58/1.32	1.16/1.16
Θ(127.5°)	0.00/-2.30	-1.31/-1.31	0.74/3.00	3.49/3.33	3.47/3.44	3.28/4.49	1.80/-0.02	0.21/0.39	0.91/0.81	-0.66/-1.25	-0.65/-2.92	-4.81/-6.23	-5.41/-8.04	-6.63/-4.67	-4.54/-9.30	-7.90/-3.15	-8.68/-1.68	-0.66/-4.22	-5.29/-5.66	-5.23/-3.60	-6.81/-6.15	-2.77/-3.38	-3.20/-4.14	0.03/-0.02
Θ(135°)	-3.46/-1.75	0.25/0.40	1.06/1.89	3.05/3.52	3.59/3.46	2.99/2.70	2.18/1.53	1.35/1.81	2.10/2.01	1.75/0.78	-1.13/-0.77	-1.95/-2.60	-5.11/-8.32	-9.21/-11.69	-10.59/-6.36	-15.58/-4.00	-9.31/-9.93	-4.88/-7.27	-14.05/-10.65	-10.49/-13.92	-10.02/-4.98	-3.08/-5.29	-3.03/-3.61	-3.15/-1.61
Θ(142.5°)	-1.60/-0.25	1.08/1.99	1.02/-0.46	-1.21/-1.07	1.30/2.59	2.91/2.82	2.79/-1.62	0.27/0.01	1.22/2.37	2.50/1.06	-0.09/-1.19	-3.53/-4.36	-2.83/-6.94	-11.14/-10.35	-6.71/-4.68	-2.13/-8.83	-5.16/-4.72	-2.26/-5.32	-11.01/-8.39	-7.57/-4.02	-6.30/-15.72	-10.29/-6.85	-4.31/-4.37	-1.84/0.22
Θ(150°)	-2.69/-2.26	-2.47/-2.68	-1.24/0.30	0.91/1.96	2.75/3.23	3.12/1.81	-0.42/-0.16	1.03/1.28	0.48/-1.68	-4.21/-2.11	-0.22/-1.00	-3.53/-1.31	-0.72/-2.13	-5.00/-3.52	-6.41/-4.45	-8.85/-8.36	-5.21/-6.95	-10.72/-10.14	-7.63/-6.11	-10.25/-10.93	-11.29/-6.57	-8.45/-5.50	-3.57/-2.28	-2.35/-2.59
Θ(157.5°)	-3.68/-4.77	-4.83/-3.56	-2.99/-2.61	-1.92/-0.79	0.03/0.29	-0.43/-0.39	-0.14/-0.53	-1.62/-3.05	-3.71/-2.36	-0.93/-0.26	0.21/0.05	-0.51/-0.64	-1.35/-3.00	-4.11/-2.88	-4.05/-6.71	-6.10/-2.12	-2.39/-7.72	-9.82/-9.10	-10.89/-14.24	-15.19/-8.06	-4.09/-2.19	-3.12/-3.19	-2.96/-3.20	-3.13/-3.29
Θ(165°)	-4.61/-5.27	-6.34/-6.71	-6.05/-5.25	-4.41/-2.91	-1.62/-1.58	-0.98/-0.80	-0.79/-0.64	-0.73/-0.97	-1.27/-1.91	-2.75/-3.48	-4.19/-5.42	-6.16/-5.09	-5.68/-7.21	-7.57/-8.51	-10.29/-9.12	-7.86/-7.77	-9.11/-12.23	-13.60/-11.97	-9.91/-9.31	-10.34/-9.81	-6.79/-5.23	-5.04/-5.04	-5.56/-5.98	-5.42/-6.66
Θ(172.5°)	-7.96/-8.08	-7.43/-6.63	-5.45/-4.43	-4.47/-5.46	-6.45/-5.97	-3.75/-2.28	-1.91/-2.33	-3.16/-4.77	-7.28/-10.63	-15.41/-15.08	-11.73/-8.88	-7.27/-7.16	-6.32/-7.46	-8.91/-8.80	-8.03/-8.32	-9.51/-11.00	-11.89/-11.85	-11.68/-13.42	-13.84/-11.63	-9.84/-8.54	-6.75/-6.05	-3.62/-6.91	-7.25/-7.05	-6.70/-6.97
Θ(180°)	-13.66/-13.55	-11.49/-10.32	-9.04/-9.24	-10.41/-10.68	-9.90/-8.14	-7.56/-9.76	-11.92/-15.47	-16.69/-15.79	-16.00/-13.71	-11.62/-10.90	-10.59/-10.46	-10.16/-9.11	-9.57/-10.79	-12.34/-10.73	-8.14/-7.84	-8.26/-9.01	-8.95/-8.59	-8.29/-8.93	-10.12/-10.46	-10.51/-9.87	-10.19/-11.12	-12.84/-12.27	-11.73/-11.89	-12.83/-13.76
Freq(Hz)	6.475GPol.	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°)	-5.09/-3.84	-3.82/-3.11	-2.64/-2.96	-3.21/-3.51	-3.32/-2.40	-1.51/-0.62	-0.96/-1.43	-1.69/-1.82	-2.20/-2.50	-2.90/-3.32	-3.67/-3.84	-4.32/-4.47	-4.03/-3.88	-4.20/-4.86	-5.34/-5.26	-5.46/-6.03	-6.46/-6.25	-6.35/-6.76	-6.83/-6.42	-6.16/-7.00	-7.30/-6.57	-6.05/-5.72	-6.05/-7.19	-6.64/-6.06
Θ(7.5°)	-3.13/-4.30	-5.01/-3.85	-3.21/-3.20	-3.98/-4.75	-5.32/-4.96	-4.90/-5.17	-5.75/-6.51	-7.02/-7.33	-7.28/-7.85	-7.99/-8.03	-6.99/-6.61	-6.41/-6.17	-5.64/-5.22	-4.93/-4.15	-4.39/-4.50	-3.15/-2.48	-2.73/-2.75	-2.42/-2.68	-2.28/-1.79	-0.66/-0.59	-0.77/-0.94	-1.05/-1.02	-0.99/-1.37	-1.37/-1.60
Θ(15°)	-0.20/-0.75	-0.35/-1.12	0.22/-0.28	-0.99/-1.80	-2.26/-3.01	-3.44/-4.22	-5.09/-5.65	-6.13/-6.95	-8.57/-9.45	-9.59/-9.24	-7.84/-6.77	-5.54/-5.04	-4.35/-3.76	-4.22/-4.73	-4.42/-3.85	-3.17/-2.68	-2.60/-2.19	-1.84/-0.87	-0.13/-0.68	1.11/1.80	2.09/-1.92	1.85/-1.93	2.00/-1.88	1.53/-2.19
Θ(22.5°)	1.20/-0.13	-0.03/-0.17	-0.16/-0.76	-1.76/-3.45	-5.38/-6.71	-6.65/-6.52	-7.52/-7.30	-6.11/-6.37	-6.41/-6.68	-7.20/-6.61	-5.09/-3.05	-1.34/-0.83	-1.14/-1.91	-3.65/-6.67	-10.11/-11.28	-10.12/-7.77	-6.03/-3.74	-2.14/-1.15	-0.14/0.35	0.89/1.70	1.89/-1.77	1.76/1.85	2.55/2.79	2.99/2.54
Θ(30°)	0.02/0.87	0.89/0.39	-0.97/-1.63	-2.39/-3.54	-5.16/-5.01	-6.59/-5.16	-7.34/-9.54	-9.74/-8.14	-7.23/-6.72	-6.27/-6.31	-7.04/-5.87	-3.52/-2.20	-2.17/-3.31	-6.61/-5.41	-5.83/-5.60	-6.61/-6.38	-8.67/-4.64	-2.10/-0.43	0.22/0.81	0.81/0.48	-0.07/-0.20	-0.05/0.54	1.33/1.89	2.95/3.27
Θ(37.5°)	1.03/0.22	-1.33/-2.31	-2.61/-2.05	-3.22/-4.35	-4.91/-5.97	-6.81/-7.01	-6.83/-6.34	-5.82/-5.98	-6.73/-7.05	-6.05/-6.81	-6.14/-5.73	-3.40/-2.90	-3.72/-3.61	-1.91/-1.31	-1.15/-1.69	-3.39/-5.42	-7.49/-6.04	-4.43/-2.40	-1.01/-0.09	0.29/0.04	-0.06/-0.66	-0.38/-0.83	0.12/0.65	1.27/1.31
Θ(45°)	1.13/-0.30	-2.99/-3.45	-1.60/-1.07	-1.77/-2.99	-4.07/-4.77	-4.90/-5.06	-5.13/-6.05	-4.79/-3.58	-4.54/-6.88	-7.05/-6.17	-6.30/-8.58	-7.42/-8.56	-7.66/-3.60	0.15/1.16	1.02/0.24	-0.73/-3.44	-8.79/-11.23	-6.64/-2.78	-0.68/-0.30	-0.59/-0.20	0.09/-0.00	-0.86/0.10	0.28/-0.71	-0.08/-1.28
Θ(52.5°)	0.63/-0.42	-1.94/-1.36	-2.14/-2.96	-2.21/-2.23	-2.44/-4.11	-3.24/-4.87	-5.31/-5.35	-5.82/-5.39	-5.57/-5.58	-7.18/-10.25	-6.14/-9.61	-5.85/-1.30	0.91/2.33	2.51/2.81	1.49/-0.30	-3.77/-4.15	-3.15/-1.70	-0.21/0.15	-0.62/-0.16	1.32/0.21	1.85/-1.00	0.61/-1.00	-2.16/-1.11	
Θ(60°)	0.98/0.53	-0.38/-1.02	-1.89/-0.73	0.77/1.48	0.86/-0.17	-1.57/-2.93	-3.30/-3.03	-3.17/-4.26	-7.56/-5.59	-3.87/-4.67	-5.67/-9.36	-10.47/-6.65	-1.58/-0.35	1.20/1.13	2.06/1.87	1.06/-1.09	-1.09/-1.60	-2.33/-0.96	0.97/2.34	1.43/-0.66	0.54/-1.95	1.88/0.63	0.13/-0.88	-2.66/-0.96
Θ(67.5°)	1.81/0.45	-1.67/-2.38	-2.12/-4.09	0.65/-1.24	1.82/0.61	-1.57/-5.29	-7.33/-3.83	-2.66/-3.57	-7.56/-5.29	-1.27/-0.68	-1.54/-3.56	-3.98/-1.82	0.25/0.96	1.15/1.90	3.03/-1.13	-0.37/-0.01	1.71/-1.15	0.73/-1.27	3.24/2.27	0.61/-1.03	-1.89/0.69	1.20/-2.06	-3.31/-2.43	0.27/0.86
Θ(75°)	3.66/3.15	1.46/0.82	0.94/-1.51	2.29/-1.92	1.05/-0.05	-1.88/-5.41	-8.44/-4.69	-1.59/-2.36	-1.24/0.26	2.35/-1.69	0.98/-2.62	-4.17/-2.03	0.06/-0.72	0.59/-1.56	1.48/0.15	-1.68/0.11	0.55/0.48	-0.27/-1.30	0.23/0.63	-0.11/-1.45	-2.81/-2.08	-3.19/-5.19	-5.75/-2.27	1.81/2.54
Θ(82.5°)	4.02/0.31	0.98/0.52	-0.11/-1.20	-0.45/-1.05	-1.61/-3.67	-2.80/-2.41	-2.40/-2.44	-1.83/-1.84	0.80/1.12	3.07/2.77	1.64/-0.41	-2.25/-1.69	0.18/0.15	3.12/3.30	1.46/0.26	-1.50/0.44	1.66/2.60	1.97/1.32	-0.80/-1.31	2.39/0.19	-0.83/-1.15	-7.58/-2.78	-0.53/0.84	4.52/3.95
Θ(90°)	3.36/2.59	0.58/-1.35	-2.09/-2.02	-0.27/-0.55	-1.26/-1.98	0.79/0.97	-0.91/-3.72	-2.37/-1.71	-2.33/-0.77	1.33/1.60	0.47/-0.63	-1.33/-1.54	-2.43/-4.38	2.12/1.04	-2.13/-1.99	-3.00/-3.35	-1.07/1.37	2.88/1.98	0.55/-1.17	4.62/2.66	-1.21/-2.93	-3.83/-1.37	4.32/-3.19	4.51/4.27
Θ(97.5°)	2.55/-1.84	-0.37/-2.50	-2.86/-2.62	-0.57/-0.63	-0.05/-3.12	-1.11/0.57	-1.95/-3.25	-1.33/-1.20	2.14/2.45	3.59/2.14	-0.29/-2.41	-2.32/-3.36	-6.63/-6.65	1.36/0.62	-3.42/-4.22	-1.15/-5.89	-1.33/2.55	4.57/3.62	1.63/-4.41	5.05/3.75	1.20/-0.92	-1.52/2.78	4.32/2.00	3.12/3.23
Θ(105°)	3.94/3.84	2.54/-0.16	-1.23/0.04	1.09/2.60	2.00/0.82	-1.37/1.68	1.82/-0.31	-1.54/-3.09	2.33/1.99	2.77/0.29	-0.35/-3.10	-4.44/-5.38	-2.00/-1.76	-0.53/-0.98	-5.37/-4.11	-10.74/-8.62	-1.57/0.77	3.10/0.47	-3.61/-0.04	3.36/1.29	-0.71/-2.03	-1.38/-1.69	3.54/4.22	2.89/3.26
Θ(112.5°)	4.96/5.13	4.64/3.09	1.27/0.08	-0.03/-0.19	-1.11/0.54	0.35/-0.66	0.74/-1.39	-0.13/-1.83	2.52/-1.99	1.54/-1.25	-1.14/0.58	-0.56/-0.93	-3.71/-7.36	-5.85/-0.43	-7.51/-7.40	-11.91/-6.03	-5.77/-3.69	-2.50/-7.32	-4.72/-6.58	-1.46/-1.09	-2.84/-0.93	-1.62/-1.28	2.45/3.02	3.98/5.44
Θ(120°)	4.12/2.81	1.84/-1.36	0.15/0.27	1.11/1.41	2.19/0.99	1.51/2.61	1.16/-0.40	-2.31/-1.37	-0.65/-1.89	0.58/-0.23	-2.29/-3.94	-4.92/-6.96	-3.99/-1.19	-6.66/-6.93	-9.89/-13.03	-4.76/-4.97	-3.29/-5.85	-4.18/-5.82	-1.46/-3.60	-2.07/-0.53	-4.72/-2.85	-1.41/-2		



Antenna Pattern_6GHz

Appendix D

Θ(105°)	-1.24/-1.19	2.01/0.79	0.09/-3.04	-5.16/-3.00	-1.82/0.07	1.04/-0.77	-0.29/-1.30	-3.36/-4.99	-7.34/-2.41	0.28/0.56	0.38/1.38	0.79/0.57	-0.37/0.80	0.29/2.63	3.28/-2.16	-5.05/-1.61	-5.26/-4.41	-1.22/-0.08	3.06/2.29	-1.32/-5.82	-1.20/-4.00	-4.41/2.36	1.57/-0.46	-3.35/-0.05
Θ(112.5°)	-0.18/1.58	0.85/1.03	2.46/1.13	-2.84/-2.19	-5.18/-5.00	-3.44/-3.83	-4.88/-4.79	-3.85/-4.90	-3.73/-3.17	-0.95/-0.49	-2.56/-1.25	1.46/-1.85	-3.01/0.13	-2.32/1.61	2.62/-3.22	-5.09/-5.03	-8.50/-1.59	-4.10/0.35	0.755/3.34	3.60/-5.72	0.12/0.03	-1.86/0.70	2.60/0.84	-2.52/-1.76
Θ(120°)	-1.04/1.61	3.47/1.37	1.10/1.29	-0.86/-3.58	-3.22/-2.80	-10.99/-4.97	-1.72/-2.07	-4.13/-3.86	-3.47/-2.47	-3.39/-4.76	-3.19/-1.47	-2.88/-2.03	-0.65/-1.41	-0.91/0.38	-2.35/-3.50	-0.29/0.51	-7.92/-5.10	-7.05/1.78	1.79/3.84	1.32/-6.15	-0.75/-5.70	0.37/4.04	1.20/-1.88	-4.83/-2.71
Θ(127.5°)	-1.84/-1.49	2.14/-1.59	-2.85/-1.60	-2.41/-4.29	-4.17/-4.19	-3.79/-4.34	-7.00/-11.71	-5.94/-1.77	0.22/0.90	0.08/-2.57	-4.16/-1.46	-1.73/-3.58	-0.62/-0.60	-1.22/-4.36	0.65/1.67	2.53/-4.90	-5.51/-1.56	-6.91/0.36	-0.67/3.22	-1.50/-7.11	-1.01/-1.13	0.72/1.41	-0.57/-1.69	-7.25/-3.16
Θ(135°)	-3.99/-5.00	-1.35/0.66	-3.08/-4.85	-2.31/-0.41	-0.87/-3.20	-4.73/-4.06	-5.13/-4.86	-3.67/-5.00	-5.92/-5.27	-2.46/0.13	-0.80/-4.25	-9.26/-1.33	1.84/0.63	-0.43/-3.90	-1.26/-4.13	-0.30/-1.35	-4.64/-10.69	-1.32/-0.03	-5.82/-1.26	-0.66/-4.04	-3.88/-3.92	-3.52/-1.02	-1.14/-9.45	-7.58/0.06
Θ(142.5°)	-2.27/0.76	-0.19/-3.00	-3.86/-2.45	-2.00/-2.96	-5.67/-8.36	-11.13/-13.44	-15.15/-13.62	-8.35/-4.84	-2.42/-0.86	-1.17/-4.90	-5.68/-2.81	-0.85/-4.67	-2.64/0.88	1.73/0.09	-0.66/-1.60	-7.11/-9.58	-6.82/-4.42	-1.15/-0.22	-0.61/0.09	-1.36/-1.73	-0.87/-2.95	-9.27/-10.78	-2.96/-0.22	-2.76/-9.48
Θ(150°)	-4.44/-5.43	-4.75/-3.15	-2.79/-1.82	-1.31/0.09	0.26/-0.70	-2.31/-3.46	-6.17/-9.68	-8.75/-6.34	-5.28/-4.97	-4.61/-2.54	-0.02/1.10	-0.28/-0.43	0.29/0.06	-0.04/-2.41	-3.17/-10.45	-15.44/-8.54	-2.31/-0.18	-0.18/-1.43	-2.10/-2.81	-2.74/-0.82	-0.23/-1.13	-3.72/-6.25	-8.10/-4.15	-2.11/-3.47
Θ(157.5°)	-5.46/-3.19	-3.00/-2.65	-1.66/-1.73	-3.77/-6.75	-9.86/-12.80	-16.28/-15.98	-14.63/-10.17	-7.53/-5.71	-4.77/-4.69	-4.94/-6.22	-8.22/-11.00	-9.91/-7.89	-6.92/-4.51	-4.23/-6.92	-12.93/-6.51	-2.65/-0.67	3.17/3.66	2.89/2.08	1.52/1.02	0.37/-1.48	-3.92/-1.80	0.31/-1.17	0.32/-2.44	-6.95/-8.66
Θ(165°)	-4.17/-2.92	-2.78/-2.61	-2.03/-2.10	-2.91/-3.85	-5.83/-7.89	-8.18/-7.29	-5.97/-5.12	-5.40/-5.95	-5.07/-3.96	-3.77/-4.10	-1.52/-1.36	-2.04/-2.88	-2.77/-4.19	-7.58/-14.14	-13.66/-5.84	-2.40/-1.40	-2.09/-2.92	-2.25/-1.88	-2.33/-3.11	-3.43/-3.42	-2.63/-2.88	-4.45/-7.73	-1.50/-8.46	
Θ(172.5°)	-4.49/-4.20	-4.12/-3.70	-3.84/-3.79	-4.18/-4.78	-6.58/-8.58	-10.35/-9.20	-7.57/-5.87	-4.08/-2.75	-2.20/-2.33	-2.80/-3.29	-3.84/-4.89	-6.69/-9.49	-13.28/-11.57	-8.17/-6.15	-4.01/-2.27	-1.11/-0.43	-0.47/-1.18	-2.49/-3.59	-4.11/-4.38	-5.13/-5.68	-6.86/-8.40	-11.24/-12.03	-9.36/-6.85	-6.02/-5.20
Θ(180°)	-4.76/-4.36	-3.79/-3.46	-2.91/-2.34	-1.92/-1.95	-1.97/-1.82	-1.82/-1.94	-2.23/-2.41	-1.91/-1.39	-1.19/-1.52	-2.20/-3.15	-4.32/-5.23	-5.85/-6.49	-6.76/-6.36	-6.37/-6.23	-5.87/-5.67	-5.81/-6.19	-6.42/-6.94	-6.69/-5.62	-4.44/-3.40	-2.68/-3.00	-4.29/-4.91	-4.96/-4.96	-4.64/-4.65	-5.07/-5.78
Freq(Hz)	6.475/GPol.	Total/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°)	4.42/-4.77	-4.53/-4.06	-3.66/-3.84	-4.06/-4.67	-5.13/-5.94	-6.48/-6.96	-5.54/-4.79	-4.63/-4.94	-5.15/-5.55	-5.02/-4.89	-5.26/-5.20	-4.94/-4.12	-3.84/-3.33	-2.89/-3.00	-3.03/-3.09	-3.43/-3.46	-2.99/-2.75	-2.67/-2.80	-1.84/-1.35	-2.03/-2.97	-4.05/-3.90	-2.46/-1.37	-1.38/-3.10	-4.85/-5.07
Θ(7.5°)	4.67/-4.46	-3.98/-3.84	-4.02/-3.65	-3.64/-3.25	-3.24/-3.26	-3.93/-3.37	-2.60/-2.31	-1.81/-1.81	-1.56/-1.60	-1.47/-1.31	-2.09/-2.56	-2.86/-3.04	-2.62/-2.66	-3.27/-3.65	-3.67/-3.15	-3.13/-3.66	-4.93/-5.35	-4.68/-4.04	-6.20/-5.32	-6.25/-5.41	-5.02/-4.78	-4.36/-5.37	-6.16/-5.42	
Θ(15°)	-3.25/-3.20	-2.72/-1.94	-1.06/0.23	0.70/0.58	0.31/0.21	0.26/0.35	0.09/-0.11	-0.13/-0.28	-0.14/0.27	0.59/0.72	-0.08/-1.03	-2.38/-2.66	-2.37/-2.64	-2.76/-2.83	-2.78/-3.01	-3.19/-3.31	-2.53/-2.54	-2.89/-3.81	-4.27/-4.23	-4.44/-5.23	-5.38/-5.52	-5.39/-5.36	-4.81/-4.77	-3.70/-2.56
Θ(22.5°)	-2.86/-1.57	-1.61/-1.20	-0.92/-1.00	-0.43/0.46	1.37/1.89	1.40/0.97	0.65/0.59	0.76/0.75	0.51/0.40	0.94/1.30	0.77/-0.39	-0.83/-0.42	-0.14/-0.28	-0.52/-0.46	-0.05/-0.12	-0.66/-1.47	-3.12/-4.52	-7.15/-7.18	-6.34/-5.78	-5.88/-6.62	-7.14/-7.28	-7.90/-6.86	-9.82/-11.94	-8.68/-8.26
Θ(30°)	-5.43/-2.37	-2.27/-2.60	-2.40/-1.73	-0.29/0.63	1.55/2.16	2.82/3.30	3.51/3.23	2.82/2.16	1.76/1.40	0.67/0.33	0.02/-0.84	-1.30/-1.37	-1.00/-0.37	0.32/0.08	-0.76/-1.90	-3.74/-6.96	-11.54/-14.56	-16.26/-15.07	-13.15/-14.76	-15.94/-12.92	-10.09/-7.95	-6.10/-5.42	-4.90/-4.61	-6.10/-8.41
Θ(37.5°)	-5.19/-4.95	-5.27/-6.93	-7.01/-3.97	-1.72/-0.80	0.92/1.96	2.48/3.22	3.70/4.12	4.37/4.11	3.81/3.69	3.80/3.51	2.29/1.04	0.40/-1.18	1.95/2.70	2.96/2.51	0.55/-3.35	-10.13/-8.92	-7.22/-8.60	-11.83/-13.28	-14.64/-12.24	-12.04/-9.04	-6.31/-6.79	-9.48/-5.76	-2.32/-0.76	-1.78/-4.12
Θ(45°)	-5.17/-2.01	-1.06/-5.56	-4.20/-2.09	-0.72/0.55	1.30/1.76	2.26/2.72	3.08/3.24	3.20/3.47	4.27/4.08	3.54/3.28	3.22/3.23	2.93/-1.98	1.61/2.52	2.65/-1.68	-2.38/-9.77	-10.13/-8.11	-10.43/-9.88	-10.48/-12.96	-7.89/-5.08	-4.50/-2.79	-1.95/-2.11	-4.62/-13.38	-6.81/-9.50	0.93/-1.60
Θ(52.5°)	-1.57/-0.15	-1.70/-2.65	-1.60/0.02	1.11/0.82	-0.88/0.91	0.49/2.11	2.15/-1.73	1.40/-1.27	2.09/3.39	2.64/2.90	3.36/3.15	2.65/4.00	4.41/0.77	-8.19/-8.00	-2.12/0.03	-0.45/-3.29	-2.58/-1.59	-2.40/-2.83	-2.45/-1.49	0.69/2.13	1.66/-1.00	-6.68/-2.27	-0.04/-0.91	
Θ(60°)	-4.81/-0.08	-1.57/-0.95	0.45/0.68	1.61/1.35	0.86/1.50	1.26/1.68	2.13/2.68	3.25/3.07	2.20/1.32	1.33/2.49	2.96/1.91	1.75/2.06	2.13/4.34	4.07/-1.86	-9.28/-2.70	-0.61/-1.77	-2.86/-5.70	-5.33/-9.92	-8.42/-6.91	-6.17/-10.67	-11.58/-4.71	-0.90/-1.14	-7.95/-3.34	0.08/-4.25
Θ(67.5°)	-3.57/-2.85	-2.60/-2.17	-1.51/0.37	-0.24/-0.15	2.14/-1.91	1.14/-1.16	1.86/2.62	3.32/3.65	3.65/3.08	2.16/0.33	0.93/0.23	0.81/-1.58	4.06/3.57	-0.83/-7.98	-1.37/0.39	0.62/-1.24	-1.36/-0.69	-0.06/-3.35	-15.97/-5.86	-2.62/-1.18	-2.43/-8.94	-6.88/-1.09	-2.38/-4.63	-3.91/-5.62
Θ(75°)	-2.45/-0.65	-2.82/-1.00	2.51/2.45	-2.54/-2.79	3.91/3.74	2.29/0.44	0.81/-1.57	2.28/2.27	2.29/1.48	-1.47/-0.92	1.99/-1.98	2.22/3.73	3.24/2.39	-1.89/-5.34	-0.96/2.21	1.57/2.32	-1.61/-5.29	-8.50/-9.72	-5.42/-5.03	-3.91/-5.07	-4.04/-8.81	-2.76/0.76	-2.66/-2.85	-1.94/-9.45
Θ(82.5°)	-4.97/-2.96	-1.50/-1.12	1.51/2.62	1.88/1.35	3.52/2.25	-0.37/-2.98	-0.71/-1.21	1.50/-1.43	1.28/1.44	-0.17/-2.91	1.22/2.98	1.72/3.55	2.81/-1.62	-1.76/0.26	3.07/2.80	2.12/-5.36	-4.56/-0.61	-1.62/-4.51	-3.72/-1.53	-3.52/-6.06	-3.94/-3.05	-4.11/-1.06	-1.54/-6.72	-3.47/-6.25
Θ(90°)	-0.75/0.46	-2.64/-4.84	-0.85/2.27	2.25/2.20	4.68/4.56	2.30/-0.28	-0.41/0.11	0.33/-0.07	0.39/-1.61	-0.72/-1.21	0.40/-1.44	2.61/-0.31	2.56/-0.97	-0.69/-1.87	3.20/-2.21	0.18/-3.48	-0.96/-0.97	-1.81/-7.01	-4.07/-2.73	-2.50/-0.41	0.19/-1.57	-1.54/-6.25	4.10/-0.68	-0.10/-3.09
Θ(97.5°)	0.37/-0.78	-3.91/-5.48	-6.10/0.04	-7.45/-4.94	-0.11/1.90	1.17/0.33	0.16/1.88	1.91/-1.38	-1.68/-2.45	-2.82/-4.33	2.45/-1.71	2.31/4.17	2.85/-2.49	1.92/3.74	5.53/0.66	2.19/2.59	-1.16/-6.58	-6.35/-2.39	0.44/-1.56	-1.68/2.93	3.08/-0.60	2.588/2.28	2.78/0.82	1.01/-3.98
Θ(105°)	2.13/1.26	-1.71/0.44	-0.50/-3.04	-0.09/-1.84	-0.30/-0.41	-0.58/-0.51	-1.77/0.40	0.96/-1.36	-3.92/-8.13	-3.75/0.07	-0.53/-1.53	-0.59/-1.05	-0.13/-1.78	0.96/2.08	3.95/2.77	-7.25/-5.92	-4.60/-2.38	-1.76/-2.68	1.16/2.40	1.07/0.74	1.56/-3.50	1.09/4.42	2.91/0.08	0.37/-5.04
Θ(112.5°)	2.26/1.57	-0.68/-1.40	0.26/-0.79	-2.56/-6.14	-3.17/-1.28	-2.11/-0.81	0.36/-1.32	-4.38/-5.08	-7.67/-3.37	-1.90/0.38	2.13/0.84	0.77/1.89	-0.64/-1.63	1.30/-1.85	1.82/-0.98	-7.25/-8.07	-8.22/-1.75	-1.07/-1.42	1.18/4.75	2.83/-2.81	1.95/-5.78	-3.37/3.38	2.80/0.63	-1.21/-4.85
Θ(120°)	2.41/0.01	0.89/-4.06	1.83/0.06	0.56/-1.26	-6.63/-1.54	-1.19/-4.55	-5.47/-2.95	-1.47/-3.66	-3.57/-2.11	-1.41/-0.18	0.04/-0.60	-1.23/-1.29	0.46/0.09	-0.57/-2.41	-0.65/-8.93	-5.68/-0.33	-3.32/-9.55	-15.37/0.17	-0.85/-1.67	-2.51/-5.74	-0.87/-7.37	1.42/3.22	-0.63/-1.96	0.35/-3.21
Θ(127.5°)	-0.26/0.04	1.02/-1.32	-0.39/-0.01	-1.38/-3.37	-4.89/-10.21	-6.15/-4.80	-4.72/-5.36	-5.99/-3.66	-2.39/-1.32	1.61/2.43	0.94/-2.70	-1.11/-1.65	-4.97/-1.83	3.04/-2.39	-4.74/0.97	1.60/-4.80	-3.86/-2.49	-4.83/2.72	-0.48/2.91	-2.31/-1.51	-0.76/-5.41	0.05/2.13	-2.31/0.13	-4.89/-5.57
Θ(135°)	-5.60/-3.78	0.20/-4.20	-6.29/-2.02	-1.40/-2.79	-4.61/-5.60	-3.22/-2.61	-3.88/-6.21	-7.25/-2.59	-3.89/-2.90	-2.39/-0.67	1.35/0.05	-1.91/-2.48	-0.44/0.38	1.37/-0.13	-4.40/-4.32	-1.59/-1.24	-1.75/-5.74	-5.22/-0.29	-4.68/-1.73	-1.32/-1.61	-3.48/-6.60	-3.49/-0.72	-3.97/-9.54	-3.98/-0.93
Θ(142.5°)	1.64/0.24	-4.23/-5.11	-1.33/-0.72	-2.16/-4.41	-8.85/-15.01	-9.80/-6.47	-8.91/-14.16	-16.42/-14.29	-6.67/-1.80	0.42/-0.25	-5.12/-4.76	-1.67/-2.07	-2.11/-1.50	0.06/0.09	-1.07/-1.56	-5.39/-8.50	-2.81/-0.33	1.14/0.52	-1.38/-0.48	-1.77/-0.90	-1.31/-5.28	-6.82/-2.20	-0.03/-1.02	-4.95/-2.48
Θ(150°)	-3.51/-2.24	-1.47/-2.14	-2.30/-4.55	-5.75/-3.88	-3.13/-3.25	-4.45/-5.37	-5.17/-4.16	-3.12/-1.95	-0.78/-1.23	-6.52/-13.03	-1.65/-1.21	1.39/0.30	1.83/2.92	2.45/-0.32	-2.62/-3.97	-10.54/-8.39	-2.76/-0.74	-3.88/-4.59	-3.71/-1.16	-0.15/-0.31	-1.77/-7.34	-6.72/-3.84	-1.179/-6.74	-5.69/-7.20
Θ(157.5°)	-3.50/-5.67	-6.95/-3.55	-1.37/-1.12	-3.20/-5.45	-8.08/-11.47	-12.60/-11.53	-9.58/-9.97	-10.36/-7.88	-5.11/-3.16	-2.24/-1.44	-1.07/-2.12	-6.09/-11.73	-11.60/-7.58	-3.80/-4.43	-7.82/-11.96	-6.30/-1.79	2.46/3.25	2.18/2.20	2.94/2.85	1.92/0.35	-2.66/-3.25	-0.82/-		

E1(XY plane) – $\Theta(90)\Phi(0-360)$
 E2(XZ plane) – $\Theta(0-180)\Phi(0)$ and $\Theta(0-180)\Phi(180)$
 E3(YZ plane) – $\Theta(0-180)\Phi(90)$ and $\Theta(0-180)\Phi(270)$

