



Antenna Pattern Radio 1

Appendix D

Θ (120°)	-12.99/-15.78	-13.18/-13.50	-8.16/-12.74	-13.27/-11.99	-8.74/-11.49	-7.35/-8.09	-10.87/-8.65	-9.15/-7.52	-5.29/-5.97	-7.95/-7.62	-6.02/-9.83	-8.02/-8.25	-10.61/-9.52	-7.39/-9.87	-11.89/-7.19	-4.65/-3.85	-9.51/-10.96	-7.89/-11.90	-5.52/-10.75	-9.66/-14.06	-7.50/-10.56	-8.49/-7.85	-12.57/-11.37	-12.56/-13.06
Θ (127.5°)	-9.50/-12.58	-13.97/-12.84	-14.05/-15.00	-13.14/-11.13	-11.93/-15.62	-12.89/-12.56	-14.80/-8.90	-8.17/-9.95	-4.95/-8.49	-7.89/-7.58	-9.11/-8.58	-9.65/-7.89	-8.74/-9.27	-8.91/-9.44	-10.71/-11.42	-4.60/-2.84	-8.26/-13.30	-7.64/-12.77	-6.89/-15.18	-11.51/-11.53	-9.33/-10.02	-11.37/-8.72	-9.76/-15.65	-14.14/-12.84
Θ (135°)	-12.27/-14.13	-15.05/-13.66	-13.06/-14.40	-13.41/-12.84	-9.96/-13.81	-11.18/-10.44	-9.96/-9.60	-7.94/-9.15	-9.96/-7.54	-6.56/-8.21	-11.37/-11.12	-7.55/-10.61	-10.40/-10.46	-10.45/-7.54	-10.45/-8.88	-6.16/-5.29	-8.77/-9.95	-7.43/-6.38	-5.95/-9.43	-8.77/-12.51	-13.12/-12.70	-9.29/-11.47	-15.03/-9.83	-14.27/-14.69
Θ (142.5°)	-11.06/-11.84	-11.48/-12.74	-14.65/-14.70	-14.46/-15.22	-15.07/-15.10	-16.07/-12.49	-11.16/-10.61	-11.11/-9.78	-10.07/-9.27	-9.82/-11.62	-9.51/-8.14	-11.09/-9.13	-11.02/-10.86	-8.60/-10.35	-9.79/-7.49	-9.20/-11.90	-9.66/-10.19	-10.09/-6.80	-8.82/-8.09	-15.23/-14.87	-12.45/-9.10	-15.90/-10.35	-13.99/-16.01	-14.64/-9.95
Θ (150°)	-15.84/-15.11	-15.16/-15.03	-11.94/-12.64	-13.49/-14.56	-14.94/-12.01	-10.68/-10.50	-10.11/-10.79	-9.95/-10.15	-9.15/-9.21	-9.92/-10.17	-10.29/-10.14	-9.51/-8.26	-8.27/-10.17	-7.16/-9.73	-8.85/-11.38	-14.46/-15.27	-12.30/-13.79	-15.41/-11.81	-15.17/-14.73	-13.29/-15.05	-15.49/-15.24	-13.70/-13.04	-12.28/-13.93	-14.09/-13.40
Θ (157.5°)	-14.14/-11.26	-11.20/-12.39	-14.91/-14.96	-14.29/-11.31	-9.81/-10.93	-10.69/-12.62	-11.51/-9.84	-10.60/-13.18	-14.77/-14.01	-15.05/-11.98	-11.83/-12.30	-13.18/-14.14	-14.77/-13.81	-10.87/-9.78	-11.50/-10.54	-10.30/-14.43	-14.67/-12.34	-13.94/-13.65	-14.81/-14.26	-14.99/-14.45	-12.83/-15.28	-15.29/-15.89	-14.06/-13.93	
Θ (165°)	-13.62/-13.75	-13.06/-12.19	-10.43/-9.09	-7.73/-8.15	-10.36/-9.89	-12.31/-12.68	-12.69/-14.26	-12.89/-9.84	-9.62/-9.48	-10.05/-11.56	-12.16/-13.50	-13.48/-12.75	-11.69/-13.12	-13.78/-15.56	-15.60/-13.56	-13.69/-16.15	-13.07/-12.66	-14.66/-15.50	-15.44/-13.26	-13.78/-13.32	-11.06/-11.41	-12.82/-14.63	-15.01/-14.06	-14.30/-15.66
Θ (172.5°)	-14.83/-15.77	-15.22/-15.23	-13.83/-13.57	-13.83/-13.89	-15.89/-13.95	-14.07/-15.36	-13.59/-15.52	-15.86/-13.69	-13.69/-15.92	-14.74/-14.88	-13.76/-12.78	-12.78/-12.92	-14.85/-14.62	-12.77/-12.66	-13.78/-14.35	-14.89/-15.54	-14.88/-14.62	-14.27/-14.89	-15.03/-15.07	-14.28/-15.01	-15.83/-14.79	-15.28/-14.95	-15.46/-15.49	-15.63/-14.74
Θ (180°)	-14.74/-15.28	-14.32/-13.88	-14.93/-14.59	-14.22/-13.22	-13.94/-13.49	-14.36/-13.73	-13.26/-15.30	-14.91/-13.34	-11.87/-12.86	-13.94/-14.12	-15.36/-15.62	-15.58/-15.42	-15.18/-14.11	-14.18/-15.61	-14.90/-15.57	-15.95/-15.05	-15.72/-12.65	-11.63/-13.59	-14.94/-14.48	-14.91/-14.85	-13.95/-14.58	-14.47/-15.55	-14.36/-14.71	-15.44/-15.95
Freq(Hz)	5.6GPol.	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°)	-8.99/-3.80	-8.63/-8.60	-7.56/-7.58	-7.91/-7.48	-7.63/-7.28	-7.59/-6.82	-6.70/-6.62	-7.27/-5.33	-6.52/-6.22	-5.73/-6.18	-6.10/-6.79	-5.49/-6.22	-6.00/-6.24	-6.84/-6.66	-6.22/-6.43	-7.21/-7.58	-7.82/-6.90	-6.74/-8.21	-7.87/-7.46	-7.20/-8.24	-7.75/-8.41	-7.97/-9.17	-9.67/-8.12	-8.97/-7.70
Θ (7.5°)	-5.50/-5.98	-6.14/-6.46	-6.63/-7.71	-9.54/-11.22	-12.09/-11.74	-12.64/-15.51	-14.79/-14.93	-15.23/-15.11	-15.12/-13.60	-12.68/-11.70	-10.14/-9.32	-8.45/-8.07	-8.99/-8.47	-7.77/-6.67	-6.49/-6.31	-6.08/-6.05	-5.62/-5.84	-6.20/-6.94	-6.93/-6.71	-6.93/-6.44	-6.29/-5.26	-5.78/-5.00	-5.17/-4.73	-4.18/-5.80
Θ (15°)	-11.27/-12.98	-12.58/-11.68	-10.80/-10.38	-10.63/-9.81	-9.93/-11.53	-12.99/-14.15	-14.90/-14.61	-13.35/-12.21	-11.94/-11.83	-12.92/-12.72	-10.80/-9.62	-8.76/-7.62	-7.19/-7.76	-8.47/-7.94	-6.80/-4.53	-2.98/-1.99	-1.54/-2.09	-2.50/-2.71	-3.27/-3.15	-3.15/-3.22	-2.94/-4.05	-4.83/-5.86	-6.28/-6.29	-7.45/-9.75
Θ (22.5°)	-8.26/-10.13	-13.08/-12.49	-13.54/-14.26	-15.59/-14.95	-15.55/-15.24	-12.17/-10.63	-9.01/-10.92	-13.06/-13.33	-12.97/-13.36	-10.51/-7.49	-6.38/-7.16	-7.19/-8.53	-8.89/-6.44	-5.78/-3.93	-2.37/-0.84	-0.07/-1.02	-2.79/-2.75	-1.91/-2.02	-2.97/-3.43	-2.59/-3.23	-3.31/-4.23	-5.13/-6.11	-5.40/-4.46	-4.45/-6.78
Θ (30°)	-14.75/-11.74	-11.01/-14.31	-15.63/-15.32	-14.04/-14.23	-12.05/-12.68	-13.15/-14.36	-9.67/-7.74	-7.46/-5.39	-3.98/-4.81	-6.01/-8.13	-6.70/-5.92	-4.92/-3.47	-2.32/-1.87	-2.28/-0.99	-0.12/-1.42	0.440/0.91	0.45/-0.06	-0.65/-1.06	-0.23/-0.71	0.30/-0.27	0.11/-0.19	-0.28/-1.74	-2.94/-2.40	-3.79/-8.33
Θ (37.5°)	-5.96/-8.81	-8.70/-5.93	-5.61/-12.66	-13.31/-12.51	-12.23/-9.51	-8.35/-6.46	-5.75/-6.92	-8.11/-5.61	-2.81/-1.43	-2.66/-3.94	-4.87/-3.89	-3.12/-3.09	-2.78/-1.73	-0.46/-1.35	3.71/1.88	0.10/-1.24	0.05/-0.98	-4.45/-1.68	-0.50/1.08	1.78/-0.03	-2.34/-0.31	-0.82/-1.28	-5.48/-4.90	-2.42/-2.16
Θ (45°)	-5.23/-7.59	-9.64/-6.81	-3.56/-9.15	-5.23/-5.59	-4.46/-4.25	-1.57/-3.58	-7.73/-4.61	-0.39/-2.12	-1.62/-1.29	-0.37/-1.92	-0.350/-0.33	0.09/-0.68	1.350/0.89	2.452/0.21	0.050/0.37	0.760/0.93	0.321/0.4	2.54/1.21	1.310/0.36	0.40/1.21	-0.340/-1.5	-0.28/-0.40	-0.67/-2.74	
Θ (52.5°)	-1.26/-1.91	-2.74/-7.13	-3.92/-9.27	-2.94/-3.87	-2.33/-4.29	-2.16/-9.09	-7.70/-5.01	-1.610/0.69	0.851/0.05	2.201/0.51	0.29/-0.02	2.382/0.56	-0.622/0.36	1.833/0.62	3.150/0.07	2.041/0.07	3.621/0.39	1.177/-0.39	1.771/0.53	0.411/0.56	-1.03/-5.51	-1.62/-1.18		
Θ (60°)	-0.77/-0.97	-1.79/-3.31	-2.66/-1.77	-2.66/-4.77	-2.40/-5.31	-4.87/-6.23	-5.62/-14.1	1.121/0.8	-0.371/-1.4	0.110/0.64	2.002/0.33	2.701/0.20	-0.17/-3.22	1.000/0.48	-2.653/0.52	4.072/0.19	3.20/-3.01	-0.92/-4.12	-0.41/-0.49	0.27/-4.25	0.44/-0.32	0.721/0.71	-0.10/-2.77	-1.45/-2.13
Θ (67.5°)	-4.51/-1.49	-2.61/-2.92	-2.63/-6.91	-1.70/-6.13	-4.86/-5.55	-7.62/-4.60	-4.82/-0.20	0.630/0.69	-0.200/-7.4	0.850/0.80	2.250/0.80	-0.75/-2.72	0.872/-0.29	-2.813/0.65	4.14/-1.01	1.53/-4.81	-3.83/-4.71	-7.77/-6.98	-3.80/-4.59	-1.60/-2.66	-0.29/-0.14	-0.670/-1.3	-1.22/-6.98	
Θ (75°)	-5.08/-0.00	-0.52/-1.68	-3.54/-7.15	-2.75/-6.30	-9.09/-5.34	-8.13/-5.68	-5.31/-1.91	-1.810/0.82	1.380/0.08	-0.27/-0.12	1.04/-1.19	-0.39/-0.12	-0.63/-0.55	-0.10/-3.87	-2.001/0.5	2.70/-0.69	0.95/-2.74	-2.96/-0.47	-4.20/-7.66	-7.76/-3.04	-0.86/-1.26	0.48/-0.17	0.89/-1.03	-3.11/-6.96
Θ (82.5°)	-2.770/-37	0.30/-1.38	-3.71/-7.25	-5.66/-7.94	-10.53/-5.29	-7.74/-4.57	-4.41/-4.19	-2.450/0.68	1.31/-0.81	-2.27/-0.25	1.22/-3.22	-2.87/-1.88	-2.21/-0.75	-0.41/-5.73	-2.26/-4.29	-4.11/-1.86	-0.04/-2.70	-3.40/-4.0	-0.96/-4.24	-8.14/-0.18	0.09/-0.12	0.77/-3.83	-5.76/-4.12	
Θ (90°)	-2.54/-0.88	-0.26/-2.37	-4.33/-9.60	-7.52/-9.06	-9.91/-6.29	-6.07/-8.48	-4.83/-5.26	-3.04/-0.08	-0.53/-1.97	-5.50/-1.69	0.22/-3.76	-5.10/-4.25	-3.00/-2.07	-1.75/-5.37	-3.03/-0.61	-1.76/-0.85	-2.31/-3.02	-4.75/-1.34	-1.23/-2.31	-9.86/-2.75	-2.34/-0.31	-1.60/-0.90	-0.40/-5.37	-7.29/-3.54
Θ (97.5°)	-3.46/-2.61	-2.41/-3.56	-6.95/-9.92	-9.60/-12.69	-7.59/-7.31	-5.05/-8.65	-4.80/-6.71	-3.76/-1.09	-2.01/-3.65	-8.06/-2.81	-1.10/-5.33	-5.42/-5.02	-4.44/-3.01	-4.15/-8.99	-4.96/-1.46	-3.08/-2.76	-3.92/-6.58	-8.43/-0.49	-2.70/-4.50	-10.84/-5.59	-7.19/-1.53	-3.36/-2.48	-2.29/-6.79	-7.25/-2.24
Θ (105°)	-6.80/-4.12	-6.11/-8.17	-10.64/-11.87	-10.60/-14.67	-7.47/-8.44	-5.32/-8.20	-6.16/-8.66	-4.75/-1.59	-4.28/-4.54	-6.58/-4.77	-2.64/-5.48	-6.65/-5.12	-6.46/-4.58	-7.92/-6.93	-7.41/-3.26	-3.00/-4.13	-7.14/-7.57	-10.45/-3.35	-6.76/-5.73	-12.20/-11.58	-11.14/-3.85	-7.00/-3.71	-5.69/-6.27	-4.02/-8.88
Θ (112.5°)	-8.49/-8.60	-11.65/-13.77	-10.87/-15.34	-16.01/-10.00	-6.26/-8.05	-5.67/-9.70	-6.85/-8.97	-6.60/-3.52	-4.70/-5.85	-7.07/-6.77	-4.82/-6.25	-5.10/-7.68	-6.22/-5.85	-4.67/-9.07	-6.61/-3.35	-4.96/-3.47	-8.14/-9.80	-11.48/-9.81	-7.71/-9.97	-14.39/-11.93	-10.37/-3.33	-7.10/-6.00	-9.52/-6.59	-9.36/-10.12
Θ (120°)	-15.55/-15.09	-15.49/-12.17	-11.55/-13.98	-15.16/-8.73	-8.74/-9.53	-8.82/-12.91	-11.73/-15.12	-9.43/-5.15	-5.11/-5.94	-5.76/-7.10	-7.82/-8.44	-7.97/-6.71	-6.19/-5.16	-4.61/-6.26	-9.74/-8.65	-4.97/-4.04	-7.92/-8.70	-10.41/-10.99	-6.07/-9.12	-10.47/-13.13	-5.63/-8.50	-7.85/-8.52	-11.24/-6.04	-12.60/-14.10
Θ (127.5°)	-15.45/-10.20	-12.50/-14.03	-11.74/-15.17	-14.90/-7.23	-10.07/-7.31	-8.84/-11.60	-12.33/-13.26	-10.57/-7.55	-6.59/-6.39	-6.48/-6.44	-7.33/-8.08	-8.38/-6.65	-7.69/-6.45	-5.44/-9.96	-10.41/-9.61	-7.87/-2.57	-6.25/-11.03	-8.24/-8.97	-7.11/-13.17	-9.19/-11.87	-8.23/-8.12	-12.53/-9.25	-10.02/-9.95	-11.12/-11.99
Θ (135°)	-13.65/-15.63	-15.19/-15.15	-15.75/-12.21	-13.70/-12.68	-13.60/-11.46	-13.74/-14.31	-12.54/-13.14	-14.20/-9.25	-5.07/-5.29	-8.00/-8.01	-7.74/-7.54	-8.62/-7.97	-7.51/-7.24	-9.14/-6.85	-8.58/-9.08	-15.39/-7.48	-7.11/-11.26	-7.84/-7.40	-4.10/-8.84	-8.89/-12.94	-15.02/-11.88	-10.17/-9.35	-9.76/-9.04	-11.59/-14.27
Θ (142.5°)	-15.48/-15.50	-15.23/-13.41	-14.07/-10.56	-12.17/-15.50	-12.41/-12.23	-11.05/-12.54	-15.75/-10.39	-12.04/-11.54	-7.41/-7.33	-7.97/-9.29	-11.01/-9.83	-6.92/-9.14	-6.77/-11.84	-8.15/-9.13	-9.93/-7.16	-10.66/-12.43	-11.17/-7.20	-9.81/-9.37	-8.88/-11.89	-14.34/-13.98	-12.03/-10.56	-14.85/-7.93	-11.32/-12.71	-11.89/-11.64
Θ (150°)	-14.80/-14.82	-15.26/-14.29	-14.75/-15.18	-12.94/-14.06	-15.27/-13.72	-15.02/-14.53	-13.77/-13.12	-11.45/-7.53	-7.93/-9.44	-9.04/-9.08	-9.23/-8.51	-10.08/-10.64	-9.15/-10.66	-7.84/-8.03	-10.94/-10.27	-14.05/-13.39	-14.40/-11.66	-13.10/-14.81	-12.46/-15.01	-12.75/-13.03	-14.94/-13.48	-12.06/-13.19	-10.65/-11.77	
Θ (157.5°)	-14.53/-14.95	-15.19/-15.37	-13.37/-12.96	-12.77/-13.83	-12.06/-11.24	-11.57/-11.65	-10.39/-10.20	-9.14/-10.59	-11.55/-11.03	-10.22/-9.31	-9.93/-9.80	-11.12/-10.20	-9.06/-10.47	-11.44/-9.93	-8.85/-11.49	-12.38/-10.73	-14.80/-15.16	-11.45/-11.04	-13.80/-15.53	-13.95/-14.42	-15.00/-12.97	-11.92/-11.97	-13.72/-15.77	-16.01/-15.29
Θ (165°)	-11.07/-9.53	-9.69/-10.28	-11.29/-13.77	-14.23/-13.85	-13.40/-14.69	-13.62/-14.65	-15.60/-15.77	-13.92/-12.40	-13.34/-14.16	-14.63/-12.09	-9.86/-10.70	-12.43/-11												

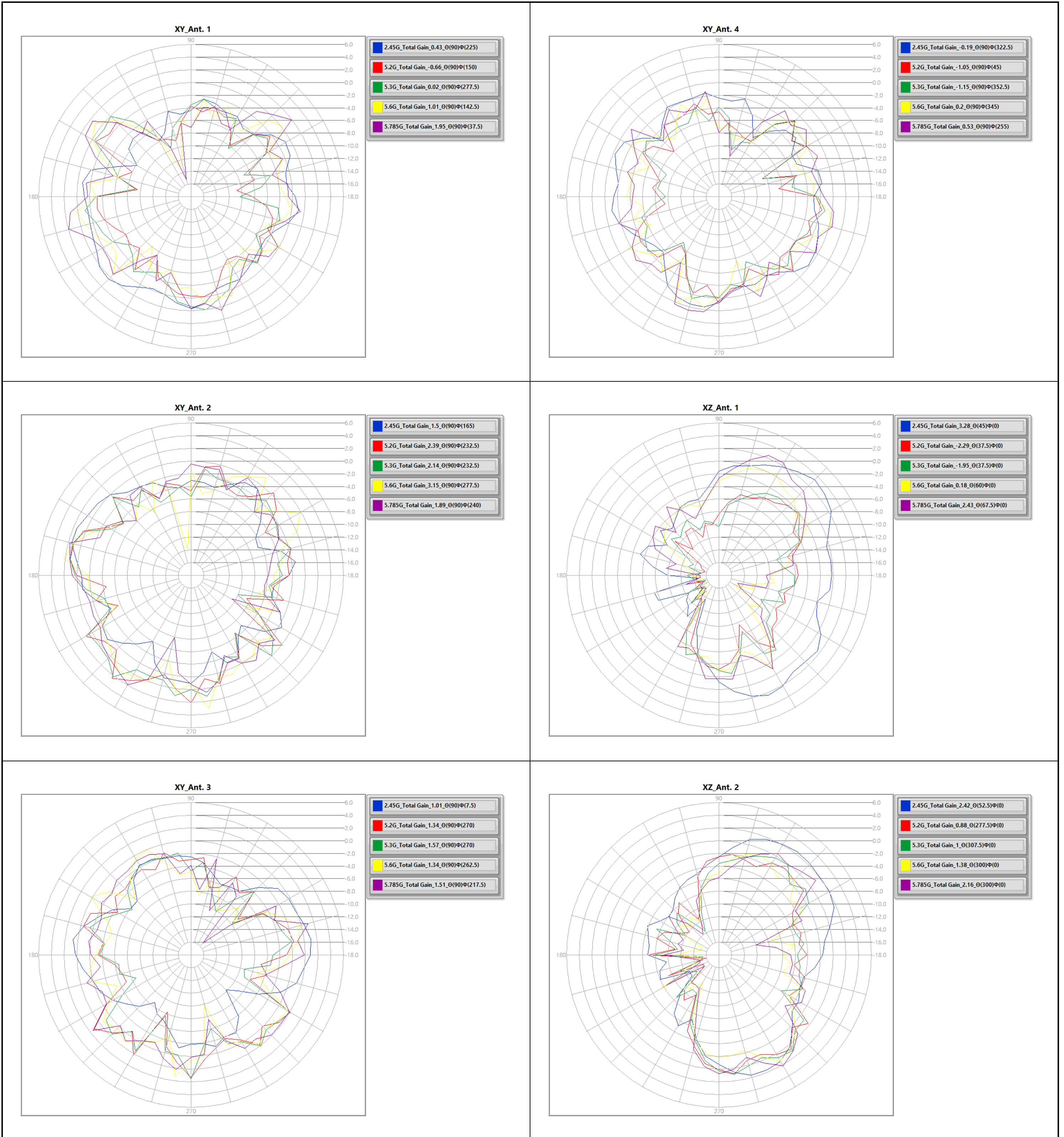


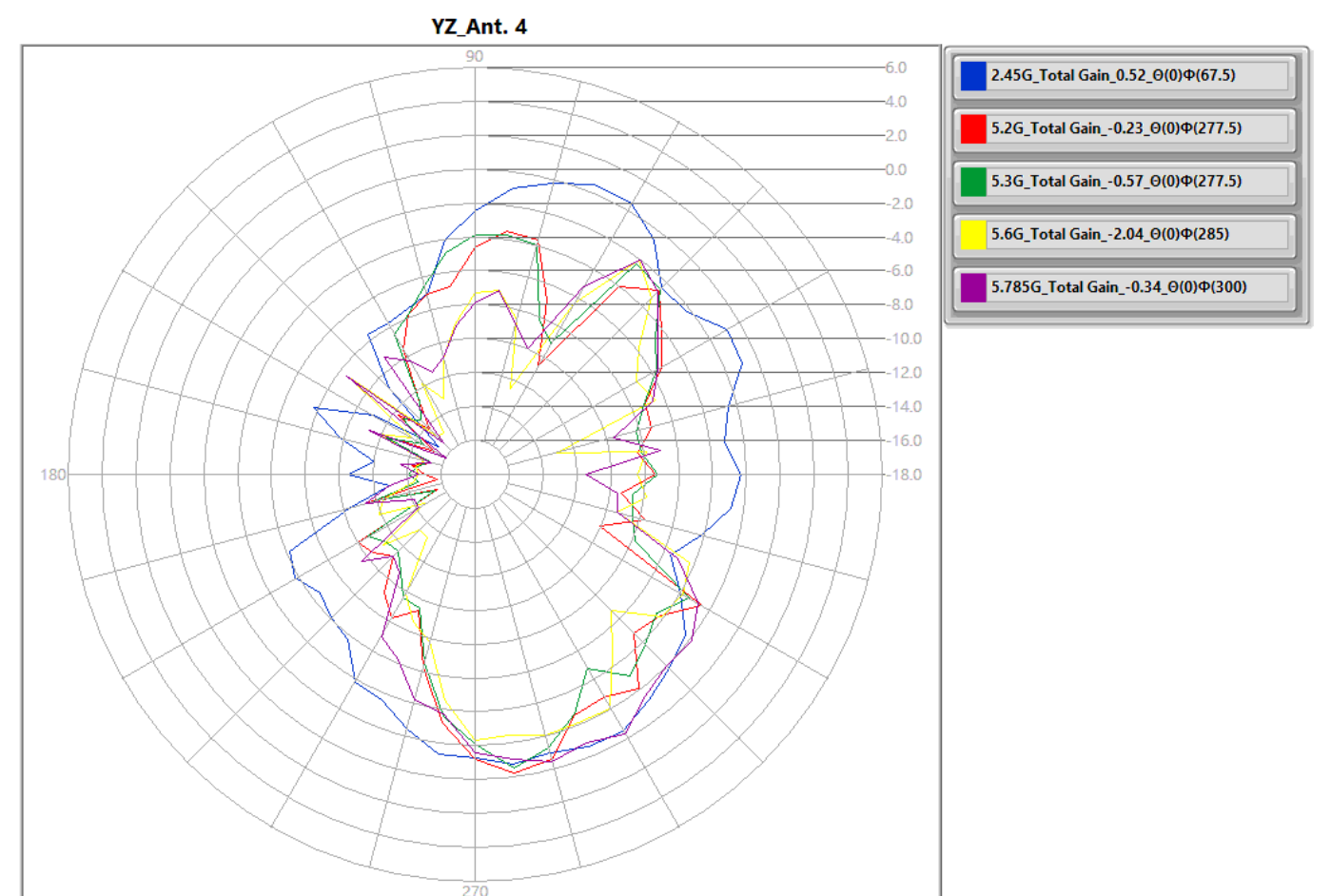
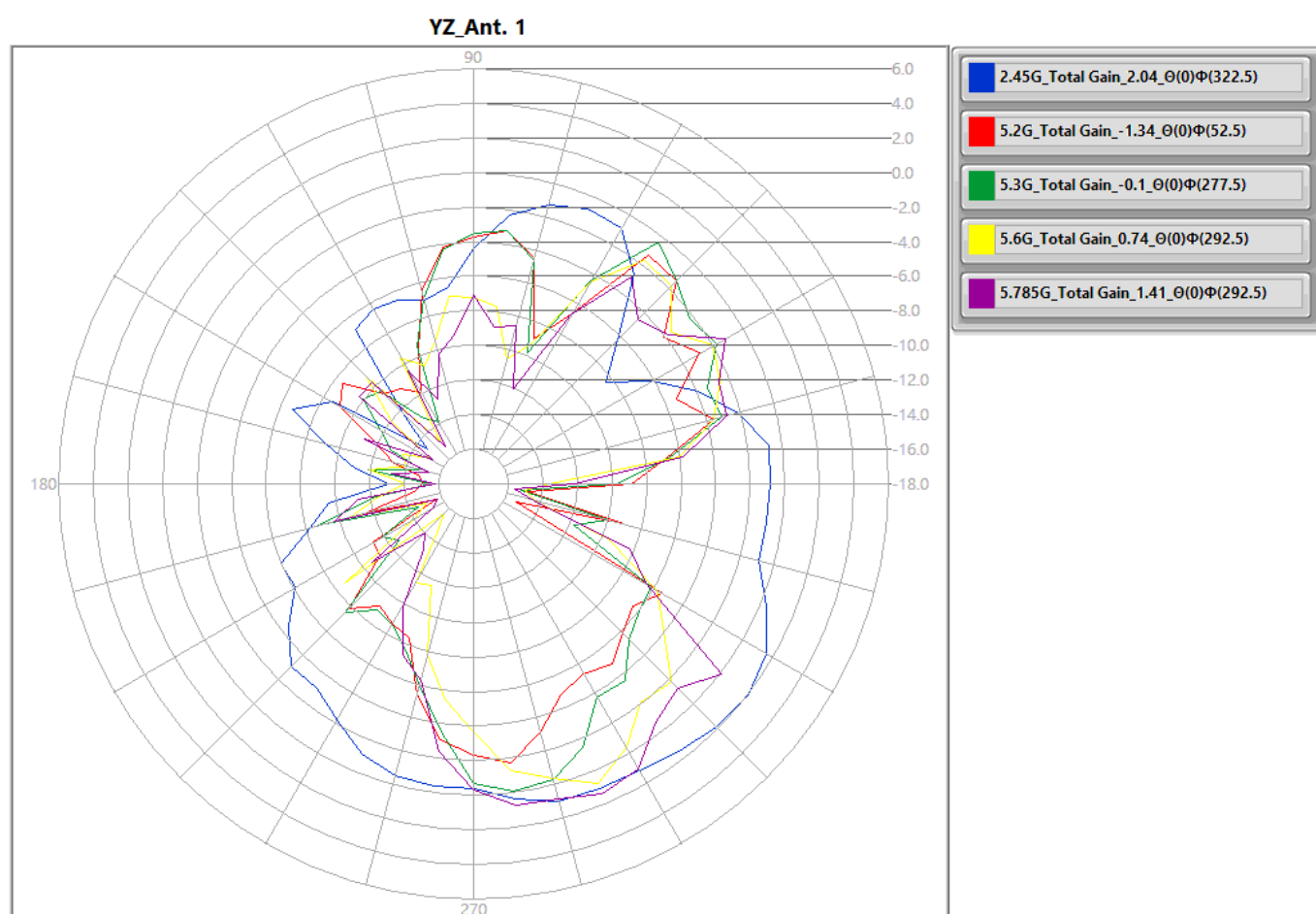
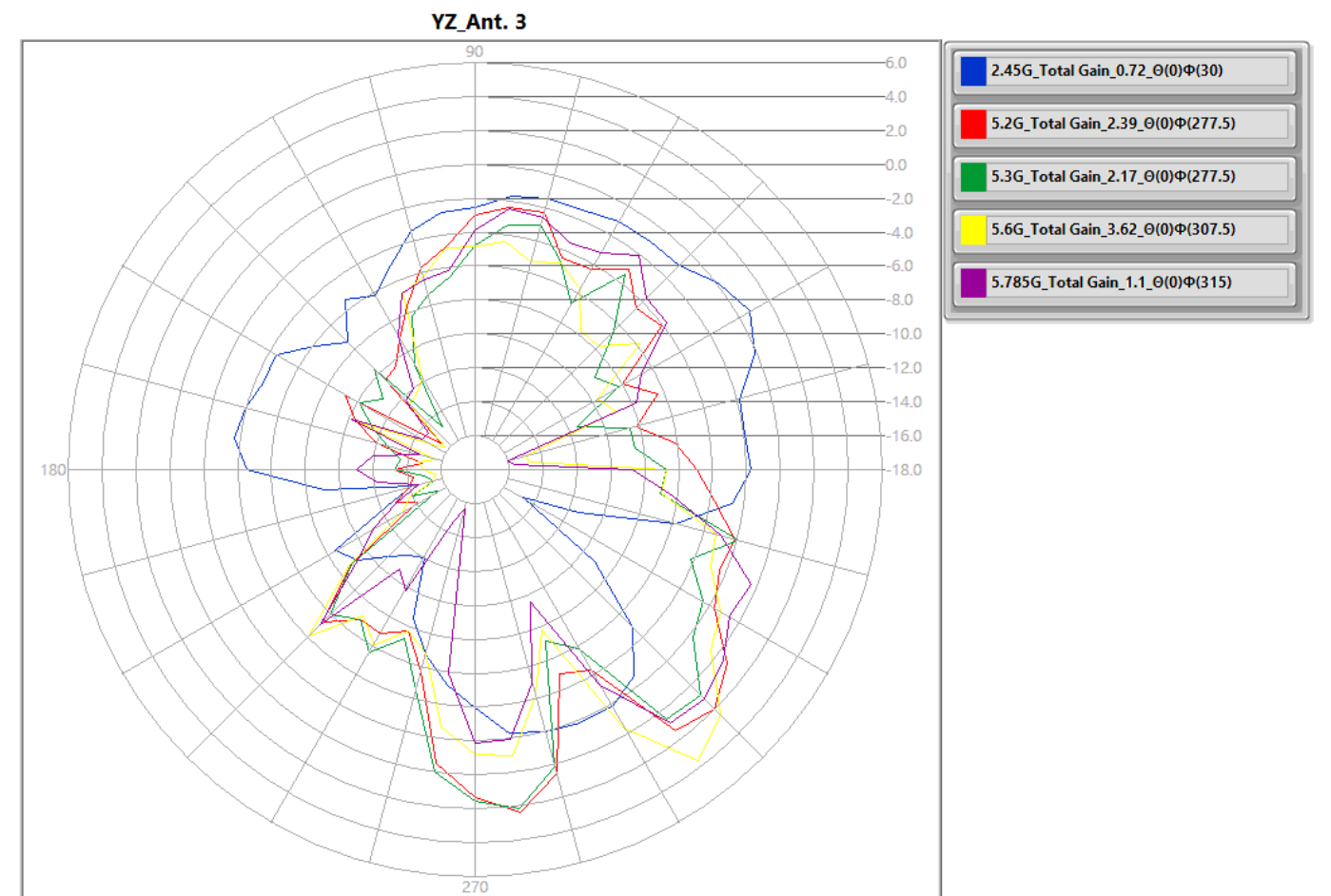
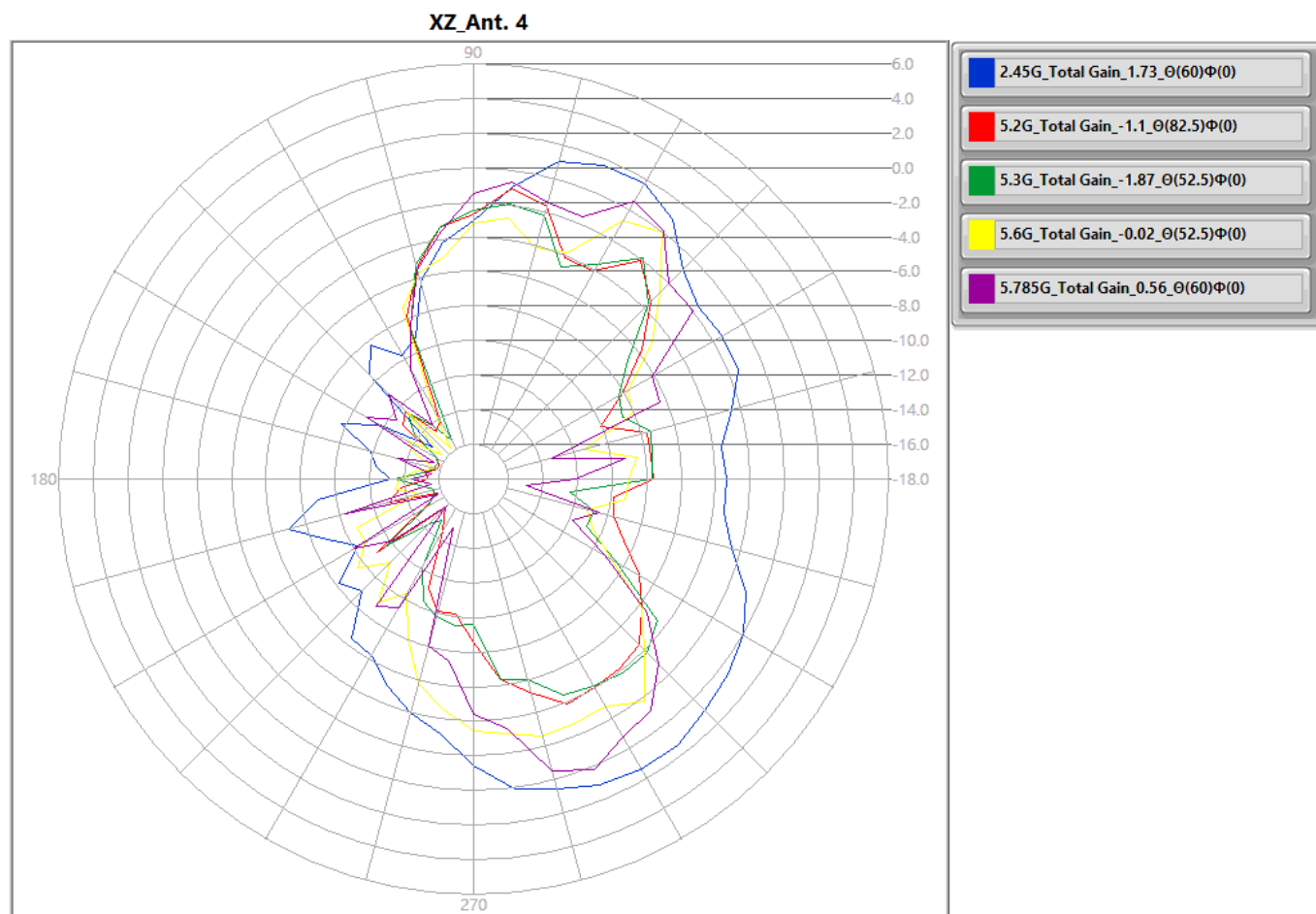
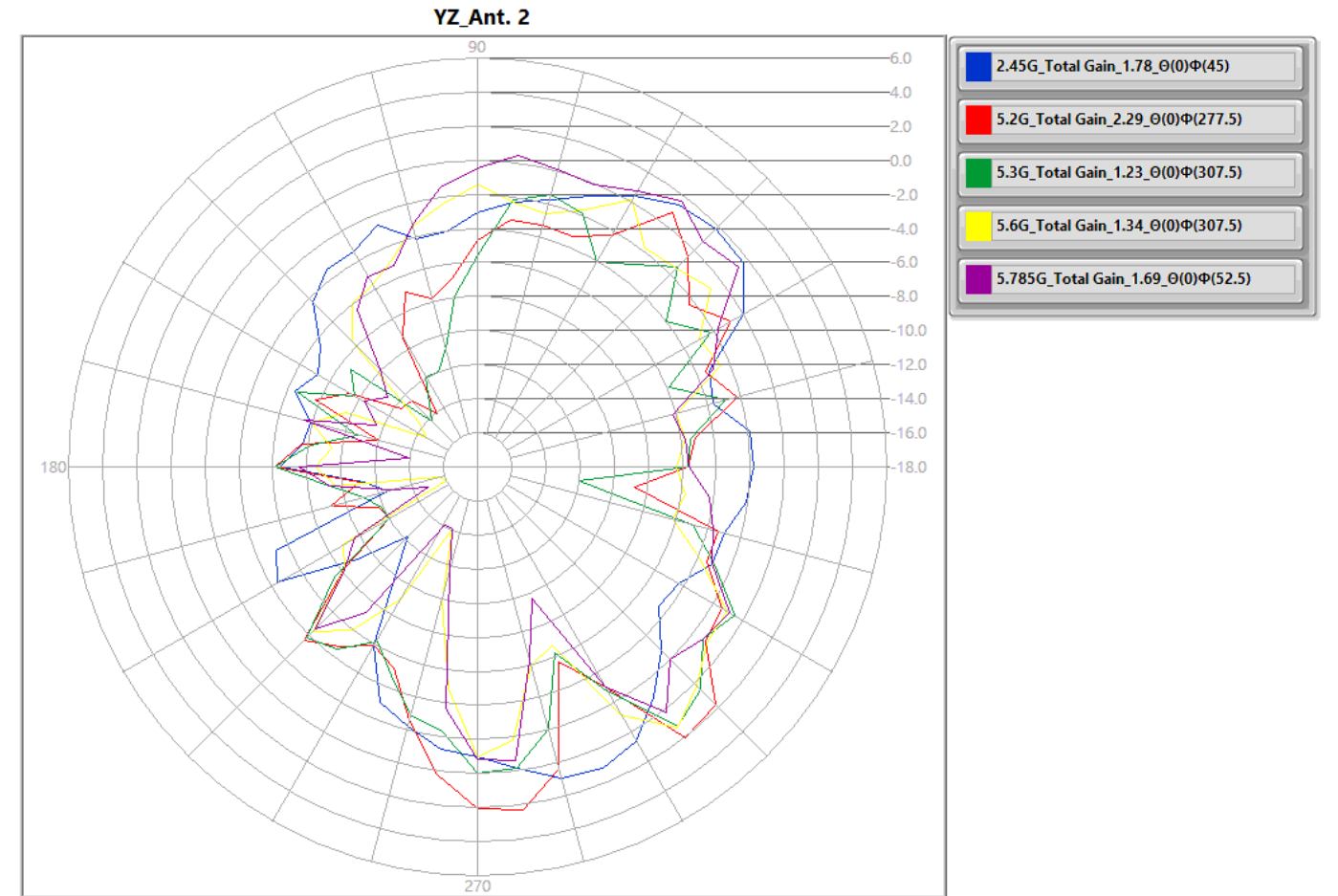
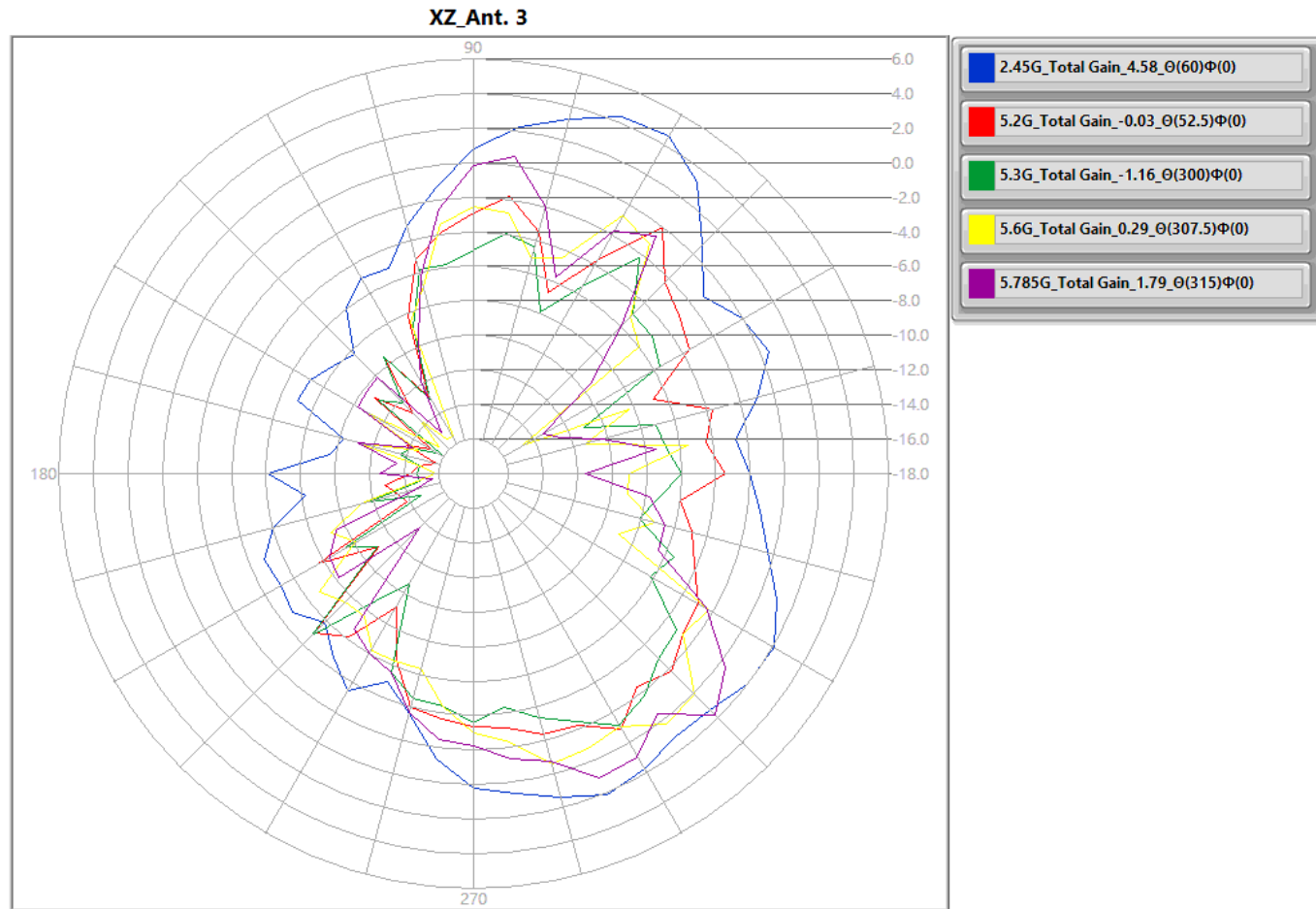
Antenna Pattern_Radio 1

Appendix D

Θ (157.5°)	-15.83/-14.74	-15.72/-15.04	-15.85/-15.34	-15.71/-13.90	-12.75/-11.06	-11.16/-11.83	-11.59/-10.14	-10.45/-12.67	-12.55/-13.58	-13.69/-12.77	-13.17/-13.66	-14.93/-14.74	-15.77/-15.03	-14.74/-13.46	-13.79/-15.19	-13.65/-14.61	-15.05/-14.74	-14.01/-14.35	-15.60/-15.43	-13.14/-13.60	-14.27/-15.54	-15.91/-14.99	-14.92/-15.72	-15.28/-15.65
Θ (165°)	-15.81/-15.84	-15.38/-14.97	-14.89/-15.41	-15.32/-15.10	-15.15/-13.08	-12.75/-14.58	-15.29/-14.96	-15.28/-14.59	-14.55/-14.91	-15.18/-15.25	-14.24/-15.57	-16.01/-14.14	-12.89/-12.84	-14.12/-15.26	-15.17/-14.50	-14.49/-13.07	-11.11/-10.74	-11.23/-11.77	-11.55/-12.44	-13.25/-12.76	-12.54/-13.86	-14.75/-14.62	-15.95/-15.47	-14.91/-15.32
Θ (172.5°)	-15.19/-14.97	-14.79/-15.01	-14.48/-15.12	-13.41/-12.41	-12.68/-13.33	-15.25/-16.04	-14.25/-13.48	-13.28/-13.70	-13.10/-13.97	-14.32/-15.07	-15.11/-15.84	-14.52/-13.74	-13.76/-12.47	-13.85/-13.88	-13.46/-13.56	-15.15/-15.19	-14.51/-13.72	-14.32/-14.68	-15.74/-16.26	-15.70/-15.65	-15.96/-15.43	-14.65/-13.87	-13.37/-13.23	-14.15/-14.66
Θ (180°)	-15.32/-15.06	-15.79/-14.96	-16.02/-15.57	-14.26/-15.32	-14.72/-15.73	-15.63/-14.93	-15.06/-15.11	-15.03/-14.23	-13.95/-14.50	-14.87/-14.84	-14.92/-16.04	-15.41/-15.35	-15.54/-14.68	-15.10/-14.16	-14.01/-13.24	-13.18/-14.01	-14.22/-15.81	-15.40/-14.32	-14.29/-15.09	-15.03/-15.21	-14.85/-14.99	-15.23/-15.05	-16.00/-14.74	-15.86/-14.67
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°)	-7.65/-7.78	-8.10/-7.95	-7.76/-8.01	-8.83/-8.57	-7.86/-7.66	-7.96/-7.80	-7.23/-7.24	-7.84/-7.64	-7.13/-7.35	-7.12/-7.09	-7.47/-7.74	-7.52/-7.72	-7.77/-7.34	-7.48/-7.25	-7.06/-6.58	-6.98/-7.05	-6.67/-5.98	-5.62/-5.32	-5.61/-5.87	-6.15/-6.27	-6.28/-6.77	-6.93/-6.87	-6.76/-6.92	-7.74/-7.85
Θ (7.5°)	-7.61/-7.65	-8.41/-8.65	-8.12/-8.23	-9.00/-9.38	-8.54/-8.32	-8.25/-8.35	-8.07/-7.53	-8.21/-8.46	-7.82/-8.30	-8.47/-8.64	-9.35/-9.69	-10.20/-10.94	-12.36/-12.75	-12.09/-12.08	-12.04/-11.08	-11.29/-10.87	-10.36/-10.27	-9.66/-8.83	-8.63/-8.84	-8.72/-8.30	-7.93/-7.66	-7.32/-7.54	-7.43/-7.07	-7.70/-7.86
Θ (15°)	-7.40/-7.88	-8.60/-9.91	-10.93/-11.90	-12.03/-11.74	-9.92/-8.94	-8.68/-8.89	-8.13/-7.93	-8.41/-8.84	-8.74/-9.54	-10.36/-11.52	-11.61/-10.76	-10.48/-9.91	-10.75/-11.37	-10.48/-10.50	-11.77/-11.89	-10.72/-9.79	-9.11/-8.56	-7.97/-7.70	-8.37/-9.00	-9.41/-8.79	-7.93/-7.10	-6.88/-7.20	-7.69/-7.89	-7.43/-7.11
Θ (22.5°)	-8.65/-10.45	-11.07/-11.00	-10.01/-8.74	-8.06/-8.03	-8.13/-8.70	-8.24/-7.17	-7.24/-8.66	-7.76/-5.74	-5.42/-5.94	-7.20/-7.93	-9.29/-11.31	-10.45/-10.00	-10.90/-13.72	-13.93/-11.66	-8.68/-7.09	-6.57/-7.44	-9.37/-9.42	-8.17/-7.24	-7.77/-9.46	-10.84/-11.30	-9.15/-7.41	-6.98/-7.70	-9.14/-9.15	-7.35/-6.76
Θ (30°)	-8.28/-8.46	-8.54/-10.31	-9.94/-6.30	-4.01/-3.73	-4.97/-6.13	-4.97/-4.81	-5.63/-5.18	-4.43/-4.59	-4.99/-6.61	-6.78/-6.09	-7.23/-8.12	-8.98/-9.24	-8.57/-8.64	-9.34/-8.94	-7.95/-7.97	-7.45/-6.18	-4.92/-3.66	-3.07/-3.18	-3.38/-3.12	-3.15/-4.43	-6.79/-8.16	-7.40/-7.70	-9.40/-8.69	-6.43/-6.59
Θ (37.5°)	-6.79/-5.74	-6.28/-6.88	-6.03/-4.96	-4.90/-4.47	-4.86/-6.03	-4.35/-2.81	-4.65/-5.74	-3.97/-5.88	-4.98/-3.92	-3.68/-5.34	-6.17/-5.55	-6.39/-4.94	-4.59/-7.14	-9.64/-7.48	-5.40/-4.99	-4.02/-2.62	-2.16/-1.72	-2.53/-4.53	-4.55/-3.51	-3.19/-3.74	-5.28/-5.37	-3.69/-2.99	-4.94/-8.05	-7.05/-7.34
Θ (45°)	-3.75/-4.69	-6.57/-4.64	-2.38/-1.78	-3.95/-3.59	-1.45/-2.11	-4.89/-3.91	-2.60/-2.78	-2.66/-4.57	-3.77/-3.42	-5.16/-5.87	-2.69/-3.71	-4.24/-3.92	-3.77/-4.63	-6.13/-6.99	-7.68/-5.49	-3.41/-3.92	-4.64/-4.46	-4.39/-4.63	-3.77/-3.73	-5.06/-4.57	-4.38/-3.36	-3.38/-2.41	-3.91/-6.11	-5.56/-6.24
Θ (52.5°)	-1.87/-3.39	-5.03/-6.49	-3.39/-0.92	-1.39/-1.69	-1.34/-2.75	-3.00/-3.94	-2.39/-1.68	-4.01/-3.02	-1.65/-0.78	-2.94/-4.18	-2.42/-5.04	-4.25/-4.84	-3.90/-5.44	-5.18/-4.03	-5.78/-5.96	-4.60/-3.35	-3.04/-2.46	-1.65/-3.89	-3.03/-2.37	-4.58/-4.62	-4.31/-3.13	-3.87/-2.85	-2.66/-1.64	-2.01/-2.48
Θ (60°)	-3.66/-3.67	-3.36/-4.59	-2.20/-1.46	-1.36/-1.73	-2.03/-5.17	-5.80/-3.98	-9.09/-4.04	-8.03/-5.62	-3.99/-0.25	-1.07/-2.85	-4.19/-4.78	-3.86/-4.19	-4.19/-4.89	-4.65/-4.02	-3.33/-2.19	-4.71/-5.51	-3.03/-3.85	-1.98/-3.02	-4.78/-2.60	-3.55/-3.72	-3.15/-3.50	-4.18/-3.23	-3.59/-2.27	-2.16/-1.89
Θ (67.5°)	-4.71/-4.37	-4.30/-3.56	-0.70/-2.86	-2.72/-2.96	-3.79/-5.05	-11.43/-5.95	-8.13/-5.32	-5.99/-6.33	-5.09/-2.06	-1.95/-1.36	-6.22/-3.63	-4.19/-4.63	-4.48/-4.49	-3.26/-3.12	-2.03/-0.78	-3.22/-7.79	-3.62/-3.19	-1.27/-1.60	-2.75/-3.02	-3.14/-3.53	-2.57/-3.50	-2.88/-3.06	-4.27/-3.39	-1.80/-1.94
Θ (75°)	-2.24/-3.46	-4.79/-4.14	-0.07/-1.87	-0.50/-1.49	-6.24/-4.92	-8.92/-5.87	-4.01/-5.18	-2.49/-4.90	-4.46/-3.79	-3.18/-1.27	-4.41/-5.78	-6.40/-9.98	-6.01/-5.60	-3.30/-3.10	-2.76/-1.54	-3.75/-9.31	-4.69/-3.50	-0.65/-1.02	-1.33/-2.53	-2.24/-4.37	-2.62/-3.12	-2.62/-3.50	-2.60/-2.04	-0.66/-1.03
Θ (82.5°)	-1.93/-5.26	-5.45/-6.35	-0.53/-1.92	-0.12/-2.24	-7.06/-6.12	-9.22/-4.92	-3.73/-5.13	-2.62/-4.48	-4.08/-5.13	-4.02/-2.19	-4.57/-5.24	-6.16/-6.88	-6.31/-5.24	-4.20/-4.60	-2.91/-2.90	-5.53/-4.23	-2.16/-1.66	1.41/-1.15	-0.57/-2.97	-2.81/-5.31	-3.22/-2.57	-2.40/-3.15	-2.25/-1.29	-0.50/-1.14
Θ (90°)	-2.44/-6.39	-5.61/-10.64	-2.44/-3.43	-1.17/-3.68	-8.23/-8.71	-10.40/-5.45	-3.91/-5.90	-3.32/-5.44	-5.28/-5.36	-5.49/-3.56	-4.58/-9.08	-8.50/-8.27	-9.58/-7.53	-5.40/-5.78	-4.51/-3.82	-6.12/-8.89	-7.65/-4.76	-1.40/-2.29	-2.08/-3.98	-3.30/-6.90	-5.29/-3.61	-2.66/-3.98	-3.96/-2.90	-2.61/-1.15
Θ (97.5°)	-3.29/-8.27	-6.65/-13.53	-3.75/-4.98	-2.33/-5.92	-10.57/-10.78	-13.26/-7.21	-4.82/-7.03	-5.58/-6.92	-6.39/-7.48	-6.18/-4.35	-5.37/-6.69	-8.95/-8.58	-9.49/-7.85	-6.49/-8.33	-6.12/-6.58	-7.33/-9.85	-9.10/-6.95	-3.36/-5.31	-3.61/-7.38	-7.13/-8.83	-7.88/-4.58	-4.75/-5.60	-6.67/-5.93	-6.70/-8.20
Θ (105°)	-5.15/-9.35	-7.42/-14.58	-5.87/-7.14	-4.42/-8.84	-13.26/-14.96	-14.49/-12.09	-6.49/-10.53	-6.46/-11.73	-6.75/-9.26	-8.77/-9.04	-6.87/-9.46	-11.53/-10.30	-9.77/-10.82	-10.12/-9.60	-8.59/-7.31	-8.16/-9.14	-8.97/-8.73	-6.55/-5.59	-6.46/-10.51	-10.38/-9.79	-11.46/-9.52	-7.98/-10.07	-11.39/-9.18	-9.02/-4.63
Θ (112.5°)	-8.57/-14.23	-9.48/-14.43	-9.58/-10.79	-7.91/-10.49	-11.15/-15.07	-12.40/-13.18	-7.77/-13.80	-7.49/-14.31	-9.31/-10.09	-6.91/-6.78	-8.30/-11.81	-12.77/-12.33	-10.35/-11.07	-8.67/-10.86	-8.08/-5.29	-7.80/-9.46	-8.84/-11.88	-6.71/-8.11	-9.47/-12.56	-11.68/-7.82	-8.72/-11.04	-11.00/-10.97	-12.37/-10.85	-12.24/-9.93
Θ (120°)	-15.45/-14.46	-14.03/-14.64	-13.92/-9.29	-8.08/-12.14	-10.85/-12.52	-9.81/-11.94	-8.45/-13.28	-9.32/-13.40	-11.42/-9.86	-5.61/-7.56	-8.09/-10.13	-12.09/-13.64	-12.11/-10.78	-9.55/-8.52	-7.85/-7.98	-8.09/-10.39	-8.00/-9.85	-5.68/-9.83	-9.59/-10.40	-11.30/-9.87	-9.33/-11.17	-11.49/-15.27	-12.69/-15.65	
Θ (127.5°)	-14.18/-14.09	-13.22/-14.42	-11.87/-11.93	-14.93/-11.59	-14.43/-14.37	-12.94/-12.37	-12.59/-14.39	-14.65/-15.79	-9.93/-9.11	-6.13/-9.73	-9.27/-8.91	-11.10/-9.62	-14.98/-12.28	-10.19/-11.20	-11.20/-8.87	-8.97/-12.65	-11.36/-9.66	-13.88/-12.02	-10.79/-11.81	-10.60/-13.98	-16.41/-12.08	-10.63/-13.71	-9.47/-13.34	
Θ (135°)	-12.65/-15.97	-13.25/-11.80	-14.68/-12.30	-13.91/-12.27	-14.71/-14.67	-13.27/-14.01	-13.51/-14.81	-10.47/-10.17	-7.86/-10.53	-8.83/-10.87	-10.68/-10.42	-11.14/-12.66	-14.30/-11.12	-15.29/-15.84	-9.23/-6.56	-9.55/-12.42	-15.48/-11.70	-11.88/-8.30	-11.54/-13.43	-14.64/-11.13	-12.44/-12.20	-13.86/-15.58	-13.48/-13.26	-15.20/-14.74
Θ (142.5°)	-13.71/-13.21	-15.43/-15.44	-12.39/-11.49	-14.58/-15.42	-13.97/-14.91	-12.10/-9.95	-12.63/-9.72	-8.22/-10.34	-8.62/-12.02	-15.88/-12.89	-11.30/-11.84	-12.72/-11.51	-11.66/-10.01	-14.43/-11.16	-9.65/-13.61	-8.23/-7.46	-12.49/-12.66	-10.55/-10.65	-11.42/-11.95	-13.43/-14.25	-10.69/-11.17	-14.00/-15.93	-12.82/-15.11	-14.72/-14.51
Θ (150°)	-15.48/-14.15	-11.12/-14.93	-14.78/-15.39	-15.25/-15.66	-14.83/-15.14	-14.35/-12.53	-14.45/-15.41	-10.89/-15.59	-13.83/-13.34	-13.53/-13.50	-10.10/-15.36	-15.44/-16.07	-15.12/-14.51	-15.71/-14.51	-12.05/-12.09	-14.90/-15.25	-15.00/-13.10	-12.81/-11.73	-10.70/-11.43	-12.46/-14.72	-15.69/-14.55	-10.50/-12.34	-15.40/-14.91	-14.11/-13.47
Θ (157.5°)	-15.74/-14.94	-13.74/-15.02	-14.53/-14.63	-12.48/-13.69	-12.79/-12.19	-11.44/-12.47	-12.35/-11.60	-11.69/-12.25	-12.47/-11.38	-11.42/-12.68	-13.20/-13.78	-13.92/-15.63	-15.47/-15.13	-13.80/-13.06	-12.15/-12.18	-14.15/-15.29	-14.94/-15.08	-14.66/-15.18	-15.46/-14.25	-13.41/-13.21	-13.96/-15.49	-15.52/-15.22	-14.56/-15.31	-14.72/-15.05
Θ (165°)	-15.63/-16.06	-15.66/-15.04	-15.56/-15.31	-15.02/-15.54	-15.04/-12.56	-12.92/-14.79	-15.23/-15.99	-14.43/-14.67	-15.15/-15.21	-15.25/-14.82	-14.69/-15.10	-14.84/-15.01	-15.62/-14.26	-13.46/-15.77	-15.34/-15.20	-13.83/-12.41	-12.15/-12.15	-13.11/-13.18	-11.87/-11.88	-12.63/-13.75	-13.57/-13.99	-14.53/-15.63	-15.18/-15.57	-15.21/-15.53
Θ (172.5°)	-15.11/-15.01	-15.97/-15.50	-16.01/-15.22	-14.53/-13.99	-14.13/-13.96	-14.75/-14.61	-14.52/-13.59	-13.19/-13.62	-14.36/-14.74	-15.12/-15.97	-15.13/-14.46	-14.88/-14.51	-14.20/-13.93	-15.09/-15.02	-14.67/-15.41	-16.51/-14.85	-15.09/-14.96	-14.66/-15.35	-15.57/-15.05	-15.12/-15.79	-16.03/-14.95	-13.80/-15.30	-15.06/-14.61	
Θ (180°)	-13.40/-13.35	-15.14/-15.66	-14.82/-15.85	-15.39/-14.99	-15.70/-15.06	-15.34/-15.12	-14.05/-14.06	-14.17/-14.93	-14.70/-14.44	-14.46/-14.97	-15.30/-15.68	-15.62/-15.43	-15.30/-15.71	-14.97/-14.67	-14.13/-14.13	-13.53/-13.35	-13.73/-14.73	-15.27/-14.55	-15.37/-15.03	-15.28/-15.45	-15.28/-16.17	-14.67/-15.16	-14.77/-15.19	-15.60/-14.74
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°)	-9.00/-9.10	-8.80/-9.03	-9.72/-8.86	-7.93/-8.37	-9.22/-9.63	-9.23/-8.03	-8.38/-8.54	-7.74/-7.59	-8.12/-8.15	-8.80														

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_Radio 2

Appendix E

Total Gain Data

Freq(Hz)	6.175G/Pol.	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°)	-2.25/-2.3	-2.44/-2.13	-2.27/-2.12	-2.20/-2.26	-2.16/-2.17	-2.54/-2.38	-2.03/-2.02	-2.25/-2.42	-2.51/-2.60	-2.70/-2.71	-2.36/-2.64	-2.57/-2.61	-2.74/-2.72	-2.96/-2.89	-2.69/-2.40	-2.30/-2.68	-2.93/-2.93	-2.71/-2.63	-2.59/-2.72	-2.64/-2.38	-2.30/-2.32	-2.28/-2.78	-2.62/-2.48	-2.32/-2.24
Θ(7.5°)	-2.74/-2.51	-2.99/-3.24	-2.35/-3.82	-4.28/-4.97	-4.62/-4.31	-4.80/-5.57	-4.58/-4.20	-4.64/-5.10	-4.13/-3.24	-2.76/-2.64	-1.61/-1.89	-1.67/-1.65	-1.69/-1.76	-2.45/-2.86	-3.16/-3.47	-3.15/-3.28	-2.71/-4.09	-3.70/-3.70	-3.84/-4.16	-4.05/-4.13	-4.24/-4.24	-4.18/-4.60	-4.28/-3.71	-3.10/-2.74
Θ(15°)	-3.49/-3.26	-3.39/-3.65	-4.36/-6.12	-6.56/-6.28	-6.12/-6.54	-7.35/-7.56	-7.30/-7.43	-7.12/-6.69	-6.37/-5.48	-4.94/-5.40	-5.35/-5.39	-5.46/-5.53	-6.25/-6.26	-6.24/-6.22	-5.93/-6.20	-7.38/-8.07	-8.37/-7.10	-5.49/-4.75	-4.84/-5.76	-7.73/-9.80	-11.69/-11.78	-11.71/-10.62	-9.07/-7.74	-5.49/-4.15
Θ(22.5°)	-5.76/-6.93	-7.74/-8.73	-9.33/-8.26	-7.30/-8.60	-5.84/-6.13	-6.33/-5.87	-5.51/-5.72	-5.67/-6.57	-7.79/-7.85	-6.92/-7.25	-6.08/-7.65	-6.81/-6.26	-6.42/-7.29	-8.44/-10.17	-11.90/-9.44	-7.18/-7.08	-6.49/-4.06	-2.18/-2.10	-1.13/-1.97	-4.84/-7.65	-11.68/-12.62	-12.74/-10.81	-8.11/-6.49	-
Θ(30°)	-5.43/-6.42	-8.50/-7.81	-7.03/-6.91	-5.34/-4.64	-5.08/-6.67	-6.89/-6.21	-5.82/-7.36	-10.88/-13.22	-13.08/-10.64	-6.29/-4.87	-3.78/-2.76	-2.18/-2.17	-3.67/-6.24	-7.29/-6.39	-6.70/-9.11	-9.49/-6.83	-5.11/-3.42	-0.95/-0.05	-0.62/-1.49	-1.28/-2.11	-3.36/-4.56	-5.87/-5.64	-5.23/-5.18	-5.82/-5.88
Θ(37.5°)	-6.47/-6.36	-8.14/-7.26	-7.01/-5.89	-5.28/-6.74	-9.33/-9.47	-5.35/-3.56	-4.64/-7.73	-11.72/-9.83	-6.15/-3.75	-2.29/-2.76	-2.58/-1.16	-0.470.26	0.27/-1.25	-2.55/-4.61	-6.85/-6.62	-6.68/-3.82	-2.28/-2.27	-0.990.08	-1.32/-2.82	-2.20/-2.24	-2.41/-2.77	-4.32/-4.33	-3.16/-3.63	-7.23/-7.37
Θ(45°)	-1.47/-0.49	-2.08/-3.90	-6.83/-8.08	-7.03/-6.63	-7.57/-7.58	-4.08/-1.17	-4.70/-6.51	-5.52/-4.84	-4.75/-4.13	-1.93/-1.24	0.090.37	0.06/-1.48	-1.040.07	0.07/-1.22	-4.00/-3.33	-0.37/-3.66	-1.71/-0.87	-0.41/-1.37	-2.56/-3.72	-2.57/-0.88	-0.35/-2.08	-2.62/-4.34	-2.89/-2.59	-4.98/-4.97
Θ(52.5°)	0.222.31	2.51/-0.16	-4.49/-9.01	-9.10/-10.74	-6.95/-3.88	-1.03/-0.88	-1.95/-0.71	-4.78/-6.00	-6.94/-5.44	-0.720.85	2.442.44	0.93/-1.27	0.84/-1.32	-0.500.11	-0.92/-1.09	-2.63/-3.75	-2.28/-4.67	-4.72/-4.12	-3.21/-1.27	0.160.66	-2.79/-3.67	-2.84/-0.78	-0.34/-1.04	-
Θ(60°)	0.282.29	3.28/-2.20	-2.76/-7.41	-8.17/-6.59	-1.67/-1.68	0.440.56	0.74/-1.99	-3.41/-8.66	-3.05/-2.39	0.57/-0.33	0.24/-0.15	-0.39/-0.62	-0.27/-2.86	-0.020.59	-0.53/-0.34	0.76/-0.50	-3.08/-7.50	-6.52/-8.60	-7.12/-3.74	-6.85/-4.53	-2.15/-0.89	-2.32/-1.61	-0.770.76	0.640.39
Θ(67.5°)	0.11/-1.84	2.610.66	-0.97/-4.03	-6.46/-4.54	-3.13/-0.75	1.44/-0.23	2.66/-2.59	-1.64/-2.68	1.90/-2.39	1.910.03	-0.74/-2.08	-1.13/-1.90	-3.62/-4.37	-0.77/-0.33	-1.00/-1.24	-0.67/-1.90	-2.96/-5.78	-8.88/-7.32	-2.61/-1.46	-8.58/-2.65	-3.43/-1.48	-0.250.30	1.01/-1.57	0.710.70
Θ(75°)	-0.05/-1.20	1.41/-0.03	-0.96/-2.93	-7.23/-5.63	-2.56/-1.13	1.172.58	3.68/-3.17	0.000.21	2.77/-6.5	3.310.26	-0.47/-3.46	-1.93/-2.80	-3.38/-5.98	-1.54/-1.40	-1.15/-1.33	-1.02/-3.37	-1.59/-2.90	-3.92/-3.73	0.380.97	-4.81/-3.36	-3.32/-0.87	0.680.72	1.59/-1.52	-0.290.21
Θ(82.5°)	-1.20/-0.46	-0.30/-0.89	-1.52/-3.94	-7.84/-7.18	-3.37/-2.36	1.60/-1.83	2.37/-6.5	0.38/-0.30	2.19/-3.37	3.17/-0.47	-1.59/-4.52	-2.70/-4.47	-5.26/-6.86	-2.59/-3.00	-2.20/-1.17	-1.40/-4.97	-0.69/-2.32	-1.85/-0.60	1.59/-1.66	-1.68/-1.41	-0.92/-1.22	0.32/-1.50	0.600.29	-1.09/-0.84
Θ(90°)	-3.00/-2.67	-2.24/-2.74	-3.09/-6.14	-9.57/-9.24	-4.90/-4.65	0.37/-0.86	-0.39/-1.14	-0.70/-2.43	1.11/-2.32	2.17/-1.36	-2.14/-6.67	-4.02/-6.22	-8.86/-9.46	-3.94/-4.79	-4.49/-2.65	-3.11/-8.00	-2.06/-1.56	-3.62/-1.28	-0.150.21	-0.95/-2.49	-3.26/-2.73	-1.35/-3.38	-1.20/-1.50	-2.40/-1.80
Θ(97.5°)	-3.94/-3.09	-4.01/-5.14	-4.66/-7.75	-10.73/-10.17	-6.02/-4.76	-1.47/-4.84	-3.46/-0.79	-2.48/-4.29	-0.570.27	0.44/-2.73	-3.35/-7.05	-5.88/-9.09	-12.05/-11.72	-5.71/-8.14	-7.87/-6.04	-4.87/-10.4	-4.98/-7.32	-9.83/-3.28	-5.27/-3.94	-3.29/-4.52	-5.73/-3.82	-3.67/-4.58	-2.30/-4.03	-3.76/-2.89
Θ(105°)	-4.19/-4.53	-6.37/-10.06	-7.52/-10.09	-13.81/-11.02	-5.85/-5.29	-5.90/-8.65	-5.75/-3.27	-4.49/-5.65	-3.93/-3.20	-1.39/-4.47	-4.63/-6.42	-8.79/-10.58	-9.73/-9.65	-5.90/-6.35	-9.33/-6.32	-4.86/-11.51	-13.46/-6.52	-9.23/-6.53	-9.57/-7.44	-5.03/-6.40	-6.06/-5.55	-2.80/-3.93	-4.35/-2.58	-
Θ(112.5°)	-7.04/-9.33	-12.23/-10.31	-8.00/-9.67	-13.55/-11.89	-8.26/-4.99	-10.73/-14.69	-8.34/-6.71	-7.03/-5.86	-6.58/-7.50	-4.61/-6.77	-6.83/-7.30	-8.26/-12.29	-13.98/-11.90	-11.07/-8.47	-7.66/-9.83	-6.23/-7.81	-6.71/-12.73	-6.85/-7.09	-10.99/-7.94	-4.92/-9.30	-12.75/-9.68	-9.98/-7.19	-4.65/-4.88	-5.62/-4.57
Θ(120°)	-14.66/-12.72	-8.31/-7.69	-9.43/-11.01	-13.35/-13.68	-7.61/-9.20	-12.77/-14.52	-12.09/-8.32	-10.80/-9.64	-6.36/-9.51	-8.72/-11.95	-8.85/-7.55	-9.26/-11.57	-11.17/-14.49	-15.19/-10.99	-8.62/-7.85	-10.45/-12.07	-4.48/-9.16	-10.42/-11.10	-11.41/-8.07	-8.62/-9.50	-13.85/-7.54	-15.25/-9.83	-10.50/-6.85	-10.94/-12.14
Θ(127.5°)	-11.87/-11.70	-9.84/-11.72	-9.80/-9.82	-13.66/-13.47	-10.65/-9.26	-10.42/-14.83	-14.85/-12.70	-13.89/-9.93	-9.67/-7.96	-9.32/-11.41	-11.56/-7.29	-10.85/-10.67	-16.15/-12.76	-14.41/-8.30	-8.21/-15.28	-15.10/-14.66	-7.50/-8.39	-13.66/-8.84	-10.38/-12.93	-9.21/-15.16	-9.64/-15.49	-7.87/-7.95	-10.75/-8.96	-7.63/-9.36
Θ(135°)	-15.01/-11.92	-8.15/-8.45	-9.75/-10.62	-9.61/-10.07	-11.26/-14.74	-13.16/-14.01	-11.98/-13.74	-14.02/-13.70	-15.91/-10.27	-9.50/-11.83	-12.79/-9.58	-10.15/-12.37	-15.24/-9.06	-11.81/-9.51	-13.00/-12.23	-16.20/-4.57	-12.52/-13.87	-13.67/-10.35	-13.69/-13.39	-10.74/-13.15	-14.29/-12.58	-12.35/-13.89	-9.52/-12.63	-13.50/-14.06
Θ(142.5°)	-11.13/-10.23	-11.51/-15.58	-13.02/-9.36	-8.02/-8.16	-10.66/-10.79	-13.70/-15.59	-14.51/-15.00	-15.79/-15.65	-13.19/-13.42	-13.22/-9.87	-13.09/-9.32	-6.49/-7.30	-8.63/-12.39	-12.18/-14.73	-12.16/-13.93	-10.32/-13.45	-15.72/-15.05	-14.42/-10.33	-10.16/-10.51	-10.16/-14.07	-15.51/-14.92	-13.06/-10.65	-11.44/-9.24	-10.16/-11.35
Θ(150°)	-1.28/-10.52	-4.43/-8.68	-6.37/-5.51	-8.02/-11.34	-15.24/-12.44	-14.21/-15.36	-13.28/-15.29	-14.81/-15.73	-14.98/-15.04	-11.58/-9.83	-9.39/-9.07	-10.38/-11.42	-10.62/-12.21	-13.63/-8.58	-10.54/-14.94	-15.30/-15.72	-10.66/-15.81	-15.15/-13.27	-10.13/-10.72	-15.15/-16.01	-13.18/-13.26	-14.29/-13.95	-14.36/-13.26	-14.95/-13.95
Θ(157.5°)	-11.99/-10.54	-8.49/-10.15	-12.54/-13.82	-15.63/-14.98	-10.42/-8.25	-11.32/-14.66	-13.98/-15.11	-15.35/-14.76	-13.36/-13.22	-11.44/-12.86	-15.52/-15.13	-13.37/-11.47	-8.85/-9.27	-12.29/-11.27	-11.70/-12.50	-14.68/-15.24	-13.21/-11.40	-12.30/-14.24	-13.44/-13.29	-14.35/-13.06	-13.27/-15.25	-14.05/-12.99	-13.37/-15.22	-14.74/-12.62
Θ(165°)	-11.23/-11.17	-12.15/-11.39	-12.07/-14.70	-14.11/-14.47	-13.86/-15.32	-15.06/-15.29	-13.95/-14.14	-15.88/-15.12	-12.98/-10.26	-8.79/-9.54	-11.44/-16.39	-15.72/-14.20	-11.80/-12.36	-14.55/-13.62	-12.36/-11.21	-14.11/-14.40	-15.66/-14.94	-15.05/-13.62	-11.28/-9.29	-10.48/-11.97	-12.22/-10.58	-10.56/-13.29	-15.27/-13.45	-11.01/-9.82
Θ(172.5°)	-12.24/-12.10	-13.29/-14.56	-12.89/-14.92	-15.95/-11.51	-12.42/-13.26	-15.08/-15.57	-15.33/-14.91	-15.22/-15.53	-10.87/-9.36	-3.90/-7.77	-11.67/-12.74	-10.24/-13.74	-13.93/-14.72	-14.41/-14.72	-15.30/-14.94	-13.31/-15.34	-13.38/-11.60	-11.00/-10.70	-10.52/-10.79	-12.08/-12.64	-13.16/-14.79	-13.44/-12.08	-11.89/-12.91	-
Θ(180°)	-10.27/-9.91	-10.41/-10.62	-11.18/-11.96	-11.60/-10.90	-10.38/-11.12	-11.40/-9.97	-9.94/-10.41	-11.19/-11.42	-11.45/-11.91	-12.32/-13.87	-13.01/-11.99	-11.05/-10.66	-10.75/-12.27	-14.37/-13.06	-11.53/-11.87	-12.11/-12.38	-13.08/-12.54	-11.93/-11.12	-10.63/-10.01	-9.32/-8.36	-8.29/-9.51	-9.99/-9.50	-9.12/-9.52	-10.51/-10.29
Freq(Hz)	6.475G/Pol.	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°)	-7.11/-7.55	-6.89/-6.70	-6.99/-6.87	-7.42/-7.11	-6.69/-7.12	-7.74/-6.90	-6.50/-6.07	-5.90/-6.24	-6.34/-6.19	-5.95/-5.94	-6.00/-6.06	-6.07/-6.61	-6.34/-5.69	-5.24/-5.37	-6.29/-6.83	-6.57/-6.82	-7.15/-7.28	-7.09/-7.29	-7.15/-6.81	-6.97/-7.08	-7.36/-7.61	-7.21/-6.59	-5.88/-6.06	-6.54/-6.98
Θ(7.5°)	-7.49/-8.20	-7.77/-7.47	-8.58/-8.97	-9.13/-8.21	-7.98/-8.13	-8.69/-8.03	-7.53/-6.96	-6.24/-6.28	-6.06/-5.61	-5.56/-5.95	-6.63/-7.33	-7.87/-8.24	-8.81/-8.72	-8.04/-7.16	-6.80/-8.10	-9.77/-7.83	-6.21/-6.82	-7.11/-6.54	-5.26/-5.56	-5.41/-5.10	-5.31/-5.59	-5.26/-4.93	-4.50/-4.96	-5.63/-6.42
Θ(15°)	-7.83/-7.47	-6.66/-6.52	-6.37/-6.05	-5.28/-5.86	-7.28/-7.65	-8.21/-10.27	-11.99/-9.62	-8.11/-7.70	-6.78/-5.38	-4.86/-5.43	-6.09/-7.56	-8.14/-8.59	-10.63/-12.01	-11.58/-9.97	-9.78/-10.56	-10.24/-10.31	-7.99/-6.74	-6.04/-6.25	-5.54/-9.19	-10.44/-10.95	-11.25/-9.64	-8.47/-7.43	-7.10/-8.11	-8.10/-8.41
Θ(22.5°)	-5.40/-6.79	-8.08/-8.23	-7.40/-5.57	-4.86/-5.25	-5.97/-7.69	-9.43/-12.55	-12.74/-13.00	-10.68/-9.50	-9.42/-8.09	-6.71/-6.40	-7.34/-7.95	-6.09/-5.09	-6.50/-7.20	-6.75/-6.55	-7.37/-8.01	-9.56/-9.01	-7.16/-5.11	-3.61/-3.11	-3.62/-4.27	-4.82/-5.31	-6.36/-8.25	-8.89/-7.52	-7.62/-7.46	-7.27/-6.01
Θ(30°)	-4.19/-5.94	-8.61/-8.44	-11.26/-12.41	-8.61/-8.56	-10.38/-8.36	-6.82/-8.09	-6.50/-5.06	-3.57/-5.46	-7.66/-13.44	-12.86/-10.00	-5.95/-3.60	-1.88/-6.07	-1.44/-2.90	-4.82/-5.35	-3.89/-3.24	-5.64/-7.12	-4.91/-3.05	-2.10/-2.04	-2.49/-2.72	-4.23/-4.45	-2.66/-1.87	-1.98/-2.87	-4.99/-7.14	-7.02/-5.00
Θ(37.5°)	-6.71/-5.46	-8.55/-9.34	-10.12/-7.35	-6.00/-6.50	-4.89/-4.85	-4.11/-3.09	-2.98/-3.93																	



Antenna Pattern Radio 2

Appendix E

Θ(22.5°)	-1.62/-2.68	-4.67/-6.94	9.36/-11.89	-14.86/-13.03	-10.12/-9.17	-8.39/-7.68	-7.60/-7.07	-5.89/-5.37	-5.48/-6.53	-8.09/-8.33	-6.41/-3.96	-2.87/-3.57	-5.73/-7.97	-7.21/-4.98	-3.80/-3.69	-4.55/-5.83	-6.90/-7.72	-6.08/-4.23	-3.55/-3.56	-3.87/-4.54	-4.68/-5.29	-6.90/-7.15	-5.98/-3.55	-1.78/-1.37
Θ(30°)	-2.47/-3.78	-4.61/-4.49	-4.95/-5.01	-5.25/-6.41	-7.02/-6.87	-7.56/-5.90	-9.38/-8.27	-6.77/-6.16	-5.06/-4.22	-5.58/-8.30	-8.51/-4.31	-2.87/-4.30	-4.41/-4.67	-5.31/-4.98	-5.06/-4.46	-3.98/-3.85	-3.46/-3.31	-2.90/-1.47	-0.91/-2.03	-3.99/-5.06	-3.58/-3.25	-3.55/-2.02	-1.14/-2.20	-2.62/-2.05
Θ(142.5°)	-3.90/-5.61	-6.41/-4.43	-4.23/-3.62	-2.11/-3.44	-4.16/-3.69	-7.22/-12.16	-7.73/-6.95	-10.43/-11.47	-11.50/-7.30	-9.98/-9.27	-7.26/-4.62	-3.56/-5.40	-4.61/-2.54	-2.10/-3.86	-5.23/-4.34	-3.54/-2.52	-2.06/-2.28	-2.15/-1.73	-1.00/-0.99	-1.85/-2.04	-3.22/-4.99	-3.19/-1.29	-1.37/-1.67	-1.06/-1.57
Θ(45°)	-3.21/-5.04	-5.11/-0.96	0.47/-0.58	-1.11/-5.21	-8.12/-3.63	-7.48/-6.50	-7.51/-6.71	-4.40/-9.45	-9.62/-3.41	-3.59/-7.68	-4.49/-2.83	-3.72/-6.16	-5.77/-3.47	-0.19/-0.96	-1.92/-1.08	0.68/0.87	-0.58/-1.25	-0.68/-0.85	-0.14/-0.67	-2.64/-2.10	-1.27/-1.93	-0.50/0.35	-0.73/-0.63	-0.20/-0.99
Θ(52.5°)	-0.75/-1.16	-2.69/-0.20	0.58/0.38	1.40/-1.86	-5.18/-5.38	-8.05/-6.39	-2.93/-5.42	0.51/-1.17	-4.66/-2.76	-3.15/-6.71	-3.32/-0.82	-1.84/-2.77	-1.54/0.10	0.88/-0.77	-1.25/0.59	3.04/2.59	-0.23/-2.49	-1.19/-1.11	-1.76/-2.66	-4.38/-1.55	0.37/-0.37	0.21/-2.83	-3.50/-1.34	-0.41/-0.48
Θ(60°)	2.37/0.75	-1.03/-1.71	-1.84/-2.08	1.59/0.40	1.37/-6.09	-9.91/-2.08	-1.45/-3.55	1.24/-1.20	-2.32/-3.21	-1.38/-5.05	-3.18/0.36	1.40/-1.49	1.67/-1.20	0.57/-0.26	-1.18/0.16	2.29/2.07	-0.75/-5.31	-2.73/-2.06	-4.98/-4.52	-9.05/-4.72	-1.28/-2.21	-1.32/-6.75	-4.89/-2.05	-1.22/-1.59
Θ(67.5°)	3.52/1.28	0.87/-0.38	-0.91/-2.69	0.44/0.79	2.82/-3.48	-8.81/-0.97	-0.42/-0.50	1.79/0.85	-1.29/0.40	0.65/-2.19	-0.67/-2.88	3.23/2.39	1.68/0.59	0.48/0.41	-0.58/-0.14	1.43/0.31	-2.37/-5.31	-2.41/-2.44	-4.49/-5.04	-9.08/-3.63	-2.66/-2.11	-0.78/-5.55	-3.51/-1.59	-1.12/2.60
Θ(75°)	2.36/1.67	2.48/1.40	0.58/-1.81	-0.69/-0.06	2.01/-1.72	-6.75/-1.61	1.16/0.40	0.95/0.37	-1.23/-1.13	1.82/-0.39	0.17/0.34	3.36/1.81	0.53/-1.00	-0.08/-1.74	-0.10/-0.64	0.14/-1.84	-3.32/-4.20	-0.99/-1.28	-2.78/-4.76	-5.15/-1.16	-0.40/-1.81	-0.65/-5.15	-3.71/-1.08	-0.27/2.21
Θ(82.5°)	0.28/1.32	2.69/1.27	0.40/-1.80	-1.97/-1.33	0.46/-2.51	-4.95/-2.06	0.63/0.16	0.15/-1.34	-1.52/0.28	0.96/-0.81	-0.17/-2.51	2.31/0.63	-1.17/-2.05	-0.34/-1.63	-0.98/-1.31	1.68/-3.51	-3.33/-3.31	-0.34/-0.63	-2.24/-5.82	-2.66/-0.67	-5.12/-1.71	-2.59/-5.95	-4.51/-2.19	-0.06/0.82
Θ(90°)	-2.03/0.18	1.87/0.10	-1.26/-2.50	-3.68/-3.37	-0.74/-2.96	-4.09/-3.76	-0.91/-1.71	-0.55/-2.83	-2.76/-1.33	-0.72/-2.24	-2.03/0.86	1.18/-0.63	-2.78/-2.17	-0.52/0.04	-2.38/-2.79	-2.88/-6.06	-3.95/-4.97	-1.27/-2.19	-3.30/-7.90	-3.60/-1.70	-6.61/-2.25	-5.24/-7.65	-6.32/-4.22	-1.08/-0.83
Θ(97.5°)	-3.59/-2.42	-0.42/-2.39	-3.69/-4.99	-6.12/-5.86	-2.27/-3.87	-4.60/-4.98	-2.10/-2.61	-2.40/-4.47	-5.36/-3.62	-2.47/-3.61	-3.60/-1.11	-0.33/-1.87	-3.38/-3.08	-1.37/-1.89	-3.91/-4.48	-3.25/-6.68	-6.09/-8.29	-5.03/-6.96	-8.75/-10.02	-5.97/-4.09	-9.16/-4.21	-7.94/-8.75	-6.57/-6.75	-3.10/-1.96
Θ(105°)	-6.25/-5.11	-2.91/-4.47	-6.83/-9.00	-7.78/-8.92	-4.60/-5.35	-8.06/-6.31	-3.08/-3.29	-4.17/-5.43	-3.70/-4.26	-4.59/-5.84	-2.47/-3.78	-4.03/-2.68	-3.16/-5.14	-5.68/-6.79	-4.59/-5.00	-7.82/-8.57	-6.82/-9.03	-10.36/-11.80	-11.39/-8.02	-10.63/-7.19	-8.63/-6.77	-6.83/-8.72	-5.71/-5.81	
Θ(112.5°)	-7.85/-7.09	-4.03/-5.77	-7.76/-9.91	-9.17/-11.25	-5.76/-6.40	-10.27/-7.15	-4.54/-4.27	-5.28/-6.50	-11.53/-8.40	-4.92/-4.39	-3.06/-4.25	-6.54/-6.54	-4.34/-4.36	-5.64/-6.98	-8.37/-9.23	-7.71/-7.87	-6.95/-8.76	-9.06/-9.79	-11.50/-9.39	-10.96/-7.47	-8.12/-10.24	-7.21/-9.41	-11.02/-8.74	-9.74/-8.29
Θ(120°)	-7.04/-7.25	-6.19/-7.42	-7.06/-9.31	-9.97/-10.86	-4.56/-8.55	-11.83/-6.94	-5.56/-6.52	-6.60/-8.18	-10.62/-11.01	-8.06/-6.18	-4.18/-4.26	-7.74/-10.57	-6.60/-5.36	-6.19/-6.92	-9.59/-10.08	-8.15/-8.11	-7.41/-9.29	-7.60/-9.65	-11.37/-11.41	-14.85/-8.64	-6.98/-14.09	-14.49/-7.91	-11.83/-8.93	-10.14/-10.49
Θ(127.5°)	-15.17/-8.25	-7.37/-6.97	-8.39/-9.28	-9.14/-9.49	-5.88/-8.96	-13.54/-7.48	-7.20/-6.86	-6.34/-8.48	-14.28/-10.41	-7.59/-5.84	-5.25/-7.28	-6.80/-8.58	-9.74/-7.37	-7.83/-11.61	-13.77/-7.76	-10.01/-12.79	-9.47/-12.03	-14.88/-9.90	-15.22/-13.93	-9.71/-15.15	-10.08/-9.17	-15.30/-10.70	-15.30/-10.70	-14.34/-11.70
Θ(135°)	-10.22/-7.02	-8.09/-8.03	-12.19/-9.85	-10.34/-9.44	-12.67/-12.52	-14.80/-8.20	-7.15/-7.84	-5.70/-9.81	-10.78/-11.85	-8.56/-6.18	-6.23/-8.85	-8.41/-11.75	-11.32/-8.18	-10.51/-13.14	-9.32/-15.40	-14.89/-14.93	-14.72/-13.79	-8.46/-9.62	-14.56/-12.60	-14.82/-14.32	-8.74/-9.12	-15.23/-12.27	-13.39/-10.91	-11.49/-11.76
Θ(142.5°)	-13.81/-15.09	-14.63/-12.02	-8.43/-10.68	-10.86/-9.61	-10.84/-12.46	-12.59/-9.71	-6.48/-8.43	-8.48/-8.67	-11.06/-8.49	-10.31/-10.01	-11.05/-11.48	-11.12/-11.48	-11.52/-11.46	-8.92/-12.83	-15.43/-15.32	-13.46/-11.34	-15.58/-14.57	-14.85/-10.91	-14.06/-12.30	-15.35/-10.33	-10.69/-11.64	-12.26/-12.37	-12.06/-14.15	
Θ(150°)	-12.57/-10.58	-9.10/-11.77	-13.20/-12.52	-13.76/-14.80	-13.39/-15.04	-14.26/-9.85	-7.15/-8.32	-7.65/-4.70	-14.50/-12.96	-9.87/-12.83	-15.29/-16.07	-15.40/-15.64	-14.69/-11.65	-11.00/-11.95	-12.96/-13.15	-13.76/-14.47	-15.81/-14.32	-13.68/-15.51	-14.65/-16.04	-15.78/-14.46	-14.46/-12.19	-13.15/-14.25	-13.15/-14.25	-14.88/-12.76
Θ(157.5°)	-13.86/-15.95	-14.24/-13.97	-12.69/-11.99	-11.52/-14.99	-13.94/-12.91	-11.73/-10.79	-9.78/-10.49	-11.33/-11.67	-11.72/-12.29	-15.46/-13.58	-12.72/-14.62	-15.28/-15.53	-14.84/-13.46	-13.47/-12.97	-13.19/-13.90	-12.55/-13.50	-14.61/-14.36	-15.07/-14.72	-12.96/-15.37	-14.22/-13.56	-15.23/-15.32	-15.41/-14.35	-12.16/-14.92	-11.37/-11.02
Θ(165°)	-13.63/-13.59	-13.54/-13.59	-13.59/-13.59	-15.83/-15.74	-14.29/-12.35	-11.52/-11.05	-11.57/-12.53	-11.58/-8.97	-11.25/-13.50	-15.35/-15.27	-16.12/-14.58	-15.13/-14.77	-14.85/-15.10	-15.34/-15.61	-13.96/-13.67	-12.93/-11.97	-13.16/-14.83	-15.19/-15.29	-13.32/-15.36	-14.08/-10.94	-11.14/-11.31	-11.08/-13.51	-14.85/-14.83	-15.61/-12.37
Θ(172.5°)	-15.27/-15.00	-15.49/-15.03	-14.84/-15.69	-15.73/-15.10	-15.23/-13.06	-15.73/-14.26	-16.09/-15.55	-15.30/-14.99	-14.28/-13.22	-13.19/-14.13	-12.89/-12.71	-13.76/-15.37	-15.55/-15.73	-15.67/-15.65	-13.76/-12.66	-13.94/-15.20	-14.57/-15.42	-14.84/-14.95	-15.81/-14.65	-13.64/-14.07	-14.40/-13.37	-13.46/-13.75	-13.19/-12.83	-12.54/-14.25
Θ(180°)	-15.54/-15.00	-15.61/-15.40	-14.73/-15.49	-15.41/-14.25	-15.20/-16.09	-15.69/-15.81	-14.84/-16.36	-15.55/-15.50	-15.00/-15.63	-15.42/-15.31	-15.97/-15.17	-15.46/-15.18	-15.48/-15.64	-15.54/-15.64	-14.94/-15.18	-14.51/-15.36	-15.69/-15.60	-15.32/-15.96	-16.01/-15.56	-15.23/-14.90	-15.03/-15.22	-15.64/-15.30	-15.43/-15.18	
Freq(Hz)	6.475GPol.	TotalAnt.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-2.93/-2.69	-2.29/-2.47	-2.84/-3.34	-3.58/-3.54	-3.40/-3.41	-3.66/-3.79	-3.76/-3.49	-3.51/-3.62	-3.51/-3.28	-2.91/-2.89	-2.56/-2.31	-2.58/-2.26	-2.35/-2.59	-2.85/-2.74	-2.77/-2.73	-2.57/-2.57	-2.10/-2.11	-2.62/-2.80	-2.51/-2.70	-2.66/-2.47	-2.62/-2.74	-2.68/-2.32	-2.47/-2.86	-2.88/-2.91
Θ(7.5°)	-1.84/-1.40	-0.96/-1.17	-1.58/-1.92	-1.75/-1.73	-1.68/-2.36	-2.85/-2.97	-3.23/-3.24	-4.47/-5.17	-5.84/-6.17	-6.15/-5.29	-5.15/-4.85	-4.53/-5.59	-3.57/-3.78	-3.94/-3.68	-3.90/-4.20	-4.76/-4.74	-4.45/-4.30	-4.44/-5.64	-6.22/-5.36	-6.45/-4.40	-4.77/-3.99	-3.31/-2.61	-2.38/-1.27	-2.38/-2.30
Θ(15°)	-5.81/-6.81	-7.57/-8.16	-6.39/-6.16	-6.83/-6.16	-6.36/-6.10	-6.38/-6.73	-6.94/-7.29	-7.15/-7.22	-6.51/-7.49	-7.58/-6.68	-5.89/-5.25	-6.64/-6.72	-5.71/-5.86	-6.11/-6.13	-5.65/-5.59	-6.02/-6.36	-5.55/-6.72	-4.83/-4.73	-5.00/-5.25	-5.82/-6.43	-4.15/-4.61	-5.25/-5.65		
Θ(22.5°)	-2.66/-3.60	-5.39/-6.08	-6.94/-8.06	-7.82/-7.09	-6.29/-6.53	-7.94/-11.79	-14.86/-13.72	-9.97/-8.82	-7.88/-7.35	-8.44/-8.10	-8.83/-8.94	-6.58/-5.39	-6.34/-9.82	-13.38/-16.14	-10.60/-7.68	-5.22/-4.69	-4.61/-3.79	-2.95/-2.45	-2.80/-2.75	-2.76/-3.75	-4.32/-4.74	-5.17/-6.28	-5.52/-4.90	-3.57/-2.86
Θ(30°)	-3.35/-3.19	-4.37/-4.75	-4.67/-4.80	-5.42/-6.93	-11.32/-9.53	-7.73/-7.53	-5.43/-2.74	-9.46/-10.29	-11.24/-10.24	-8.47/-7.73	-8.44/-6.84	-4.16/-3.58	-4.21/-4.28	-5.39/-5.57	-5.23/-3.86	-2.25/-2.06	-1.98/-0.95	-0.34/-1.53	-3.75/-5.10	-5.90/-6.49	-4.75/-2.44	-3.13/-6.77	-7.48/-5.65	-4.66/-3.67
Θ(37.5°)	-3.92/-4.94	-6.52/-8.47	-8.11/-4.83	-4.28/-4.54	-5.79/-6.33	-8.00/-5.11	-3.62/-4.58	-7.70/-6.95	-6.02/-6.71	-6.02/-4.59	-7.35/-5.31	-4.89/-4.95	-4.11/-2.35	-2.30/-3.05	-3.20/-1.88	-1.29/-3.22	-3.18/-2.44	-2.66/-4.11	-5.69/-6.38	-5.71/-4.46	-1.79/-0.57	-1.79/-3.73	-5.65/-4.34	-3.06/-3.82
Θ(45°)	-2.24/-5.77	-4.69/-5.04	-6.37/-4.24	-7.82/-7.83	-2.72/-2.49	-8.81/-10.32	-11.04/-7.09	-5.24/-7.13	-2.94/-4.49	-4.70/-4.01	-8.24/-3.78	-3.85/-5.03	-2.83/-0.69	-1.86/-3.52	-3.54/-0.77	-1.05/-0.20	-5.56/-4.87	-6.21/-4.70	-5.56/-4.87	-3.42/-1.55	-1.17/-2.05	-5.07/-4.61	-8.00/-0.46	
Θ(52.5°)	-1.46/-2.03	-0.33/-1.06	-2.41/-0.73	-2.61/-5.85	-4.62/-2.94	-6.67/-8.48	-15.11/-3.80	-2.36/-4.64	-1.37/-4.95	-4.62/-0.43	-5.54/-0.56	0.45/-0.99	-0.76/0.10	-0.24/-1.29	-1.90/-0.54	1.15/-1.01	-1.57/-1.77	-5.75/-4.57	-5.87/-4.51	-7.96/-6.67	-0.98/-1.38	1.19/-2.39	-5.61/-2.50	-0.17/0.43
Θ(60°)	1.11/1.79	1.29/-0.03	-0.92/0.29	-0.16/-0.93	-1.90/-6.52	4.98/-4.06	3.75/1.36	1.43/-2.54	-0.07/-2.77	-2.61/-3.05	-2.76/2.94	2.54/0.07	-1.60/-0.11	1.27/1.03	-1.41/-0.62	0.36/-3.75	-5.29/-2.83	-6.23/-6.73	-7.82/-6.45	-11.18/-10.55	-2.01/-0.95	-1.25/-5.66	-8.59/-1.98	-1.90/-0.07
Θ(67.5°)	2.41/0.31	1.96/0.56	0.67/0.18	-1.54/-0.05	-0.55/-3.66	-4.94/-1.06	0.74/3.33	1.77/-3.65	0.82/-0.31	-0.08/-1.48	-0.39/4.21	2.13/-0.77	-2.87/0.16	1.92/0.30	-0.00/0.57	1.01/-4.08	-6.73/-3.58	-2.53/-4.30	-7.24/-5.48	-9.06/-12.63	-4.05/-4.12	-2.44/-10.00	-6.88/-1.88	-5.22/-0.30
Θ(75°)	1.73/0.23	2.35/1.59	1.73/0.31	-3.40/-0.75	0.97/-2.66	-5.																		



Antenna Pattern Radio 2

Appendix E

Θ(75°)	-2.09/-0.19	-3.78/-2.67	-1.33/-2.00	0.26/-3.71	-2.15/-1.61	-1.57/-3.45	0.57/0.05	1.55/0.20	-1.47/-1.42	2.41/0.78	-0.97/-2.61	-1.14/0.23	-2.03/-1.92	-0.69/-0.04	-0.07/-0.42	-5.90/-3.10	-4.05/-2.80	-0.60/-2.59	0.13/1.01	-2.74/0.05	2.43/0.42	1.57/-0.31	1.11/0.17	-0.52/0.87	
Θ(82.5°)	-3.01/-1.09	-4.24/-4.53	-1.66/-1.90	-1.46/-5.20	-2.90/-2.16	-1.91/-2.68	0.04/2.75	1.41/-0.45	-1.91/-1.19	1.95/0.13	-1.28/-3.88	-2.46/-0.35	-1.91/-5.30	-3.76/-1.36	-0.57/-1.76	-8.51/-4.21	-3.54/-4.05	-1.23/-2.56	0.38/0.01	-2.09/-1.00	3.04/3.77	0.60/-1.61	-0.63/-0.22	-1.49/0.60	
Θ(90°)	-3.64/-3.33	-6.57/-7.58	-3.51/-2.86	-3.28/-5.89	-3.90/-3.92	-4.95/-3.72	-2.82/0.83	-0.68/-1.81	-2.29/0.07	1.32/-1.40	-2.66/-5.05	-1.51/-1.73	-1.51/-8.45	-5.73/-2.65	-1.45/-2.90	-8.22/-5.25	-2.67/-6.54	-5.17/-3.36	-2.65/-2.06	-3.76/-0.28	1.49/-1.97	-1.32/-2.50	-2.66/-0.56	-2.39/-4.31	
Θ(97.5°)	-5.13/-5.69	-6.89/-9.52	-5.19/-5.12	-4.44/-7.58	-5.99/-5.99	-6.64/-4.83	-5.34/-1.80	-3.85/-3.87	-3.52/-1.31	-0.27/-3.85	-5.15/-5.82	-6.93/-3.14	-3.16/-10.34	-8.09/-4.24	-3.68/-5.64	-11.38/-7.68	-5.58/-8.19	-11.17/-8.14	-5.74/-5.58	-8.41/-3.67	-0.83/-1.23	-5.52/-5.25	-3.21/-2.25	-3.21/-2.78	
Θ(105°)	-7.09/-6.09	-7.15/-9.47	-7.88/-7.50	-6.18/-9.78	-6.87/-8.32	-6.30/-7.20	-8.08/-4.49	-6.13/-5.06	-3.30/-3.63	-2.69/-6.51	-7.58/-9.08	-8.23/-5.23	-4.12/-8.13	-13.04/-7.74	-5.35/-5.92	-9.18/-11.33	-6.13/-7.83	-12.97/-11.27	-6.87/-5.98	-11.28/-8.43	-5.28/-5.34	-6.57/-6.70	-3.70/-6.15	-6.42/-5.93	
Θ(112.5°)	-14.74/-7.54	-10.14/-11.68	-6.99/-7.68	-5.43/-9.27	-11.95/-8.97	-7.41/-10.75	-11.12/-5.90	-7.03/-4.93	-5.70/-5.84	-5.06/-6.81	-8.65/-11.19	-10.02/-6.09	-4.41/-8.14	-11.10/-10.69	-5.44/-7.71	-6.70/-10.54	-9.31/-8.46	-8.81/-12.88	-7.59/-4.62	-10.62/-7.74	-5.72/-4.50	-7.38/-11.31	-7.86/-4.75	-7.42/-9.89	
Θ(120°)	-12.32/-9.33	-11.25/-10.97	-7.42/-10.06	-9.10/-10.28	-8.99/-11.78	-9.76/-11.28	-11.63/-7.92	-7.17/-8.56	-8.71/-10.82	-7.76/-13.65	-10.34/-15.16	-11.80/-11.87	-7.33/-6.94	-9.00/-15.72	-10.16/-7.89	-8.89/-7.84	-12.97/-15.24	-7.34/-15.25	-9.91/-3.94	-15.76/-8.74	-10.12/-7.81	-8.06/-15.04	-13.19/-2.37	-9.53/-9.50	
Θ(127.5°)	-11.00/-9.76	-9.87/-11.66	-6.78/-10.56	-13.75/-7.72	-7.66/-9.26	-9.58/-10.30	-14.45/-7.95	-6.31/-11.49	-8.26/-12.57	-9.95/-15.41	-15.04/-14.44	-13.71/-13.57	-9.66/-8.24	-6.85/-14.40	-13.92/-8.27	-8.87/-7.59	-6.60/-14.11	-10.49/-14.35	-13.07/-5.16	-15.38/-16.00	-14.96/-13.72	-10.68/-12.74	-11.24/-5.49	-10.22/-12.60	
Θ(135°)	-14.53/-11.77	-13.47/-12.85	-10.67/-11.19	-10.67/-9.66	-11.55/-10.60	-8.96/-9.80	-11.77/-9.42	-6.53/-11.04	-15.92/-13.66	-9.06/-13.02	-14.18/-15.54	-15.41/-12.95	-10.28/-7.56	-8.54/-8.96	-9.25/-14.15	-8.40/-15.07	-11.93/-11.10	-11.14/-12.02	-8.83/-6.26	-10.30/-13.88	-13.17/-10.32	-13.83/-13.76	-10.96/-8.71	-7.35/-12.86	
Θ(142.5°)	-13.29/-8.73	-9.94/-12.51	-14.39/-12.74	-10.60/-10.37	-10.27/-14.64	-12.35/-10.07	-10.56/-11.83	-10.82/-10.34	-12.66/-13.28	-12.02/-11.80	-12.02/-13.83	-14.36/-13.17	-10.08/-7.93	-6.53/-6.81	-10.21/-14.49	-15.58/-12.22	-15.66/-12.79	-9.47/-14.28	-15.52/-11.48	-8.91/-15.37	-15.86/-13.76	-13.74/-14.94	-15.40/-10.58	-8.00/-11.49	
Θ(150°)	-14.17/-9.77	-10.61/-13.91	-13.16/-9.93	-8.93/-11.67	-12.07/-14.27	-15.64/-13.91	-12.66/-12.61	-12.61/-10.91	-9.91/-11.70	-13.22/-11.41	-10.99/-12.20	-13.44/-12.72	-8.71/-7.30	-8.97/-9.76	-7.44/-10.19	-13.82/-15.21	-15.03/-15.75	-14.94/-15.60	-10.34/-10.76	-11.94/-13.14	-12.76/-13.98	-15.25/-15.59	-14.06/-14.67	-14.85/-15.78	
Θ(157.5°)	-13.82/-16.20	-15.63/-10.89	-10.88/-12.33	-10.69/-10.23	-11.27/-14.29	-12.86/-12.62	-14.77/-12.33	-10.44/-9.79	-9.96/-10.18	-11.94/-12.32	-12.23/-12.90	-14.53/-14.22	-12.66/-10.97	-14.88/-14.98	-10.39/-9.57	-10.78/-14.23	-12.36/-10.60	-13.50/-14.24	-13.18/-14.68	-14.70/-14.29	-15.60/-15.82	-13.65/-12.89	-14.15/-14.95	-11.03/-10.87	
Θ(165°)	-15.46/-15.43	-14.15/-14.06	-14.07/-12.04	-11.19/-11.83	-13.56/-13.59	-14.27/-13.51	-12.44/-12.21	-11.63/-10.84	-9.87/-9.88	-11.23/-11.18	-12.30/-14.89	-14.30/-15.44	-14.67/-14.38	-11.28/-11.92	-16.09/-15.73	-13.23/-11.10	-10.28/-10.71	-12.35/-15.28	-16.12/-15.72	-13.76/-12.20	-11.57/-12.18	-12.49/-13.77	-12.30/-10.62	-11.35/-13.16	
Θ(172.5°)	-13.94/-13.46	-12.76/-12.85	-14.16/-15.64	-14.47/-15.31	-14.19/-13.04	-11.51/-10.82	-10.66/-11.13	-12.05/-12.87	-12.70/-13.31	-11.53/-11.34	-11.45/-12.50	-13.55/-13.82	-12.81/-12.35	-12.65/-13.80	-15.39/-14.97	-13.82/-14.01	-15.01/-15.47	-15.44/-15.29	-14.71/-13.31	-11.34/-12.12	-12.93/-15.72	-15.28/-15.02	-15.45/-15.11	-15.36/-14.60	
Θ(180°)	-10.52/-10.59	-10.09/-9.64	-10.33/-12.17	-12.39/-11.64	-12.10/-12.84	-12.97/-13.02	-12.81/-12.95	-13.26/-13.43	-13.91/-13.51	-13.75/-13.83	-13.28/-12.15	-11.42/-11.42	-11.55/-11.76	-11.94/-12.90	-12.97/-13.00	-15.05/-15.08	-14.45/-13.39	-12.54/-12.61	-13.11/-14.17	-14.05/-13.56	-12.46/-12.06	-11.89/-11.31	-10.71/-10.87	-10.42/-10.54	
Freq(Hz)	6.475GPdL	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°)	-3.96/-4.26	-4.33/-4.23	-4.13/-4.38	-4.83/-5.26	-5.44/-6.07	-4.65/-4.79	-4.92/-4.63	-4.40/-4.60	-4.62/-4.76	-4.31/-4.51	-4.42/-4.65	-3.87/-4.15	-4.14/-4.51	-4.54/-4.21	-4.31/-4.15	-4.22/-4.43	-4.79/-4.84	-4.76/-4.94	-4.28/-3.90	-3.99/-4.27	-3.92/-3.53	-3.35/-3.11	-3.80/-4.23	-2.95/-4.31	
Θ(7.5°)	-5.63/-4.84	-4.04/-3.82	-3.75/-3.88	-4.41/-4.94	-5.27/-5.41	-5.03/-4.78	-4.48/-3.84	-3.56/-3.61	-3.62/-3.67	-4.04/-4.36	-4.44/-5.19	-5.81/-6.54	-6.89/-7.47	-7.88/-8.14	-8.12/-8.27	-8.77/-8.55	-9.00/-8.70	-8.08/-7.62	-6.89/-6.32	-5.86/-5.46	-4.87/-4.52	-4.43/-4.66	-5.59/-6.61	-7.31/-6.40	
Θ(15°)	-6.50/-6.23	-5.75/-5.18	-4.71/-4.54	-5.18/-6.13	-6.83/-6.72	-5.85/-4.84	-4.13/-3.37	-2.97/-3.01	-3.04/-3.31	-3.83/-4.92	-5.04/-5.57	-6.06/-6.83	-5.13/-6.17	-7.72/-7.21	-6.75/-6.47	-6.96/-7.84	-8.94/-9.03	-9.03/-9.01	-7.47/-6.77	-5.71/-4.53	-3.67/-3.33	-3.14/-4.35	-4.32/-5.15	-6.20/-5.68	
Θ(22.5°)	-1.81/-2.04	-3.20/-4.22	-5.55/-5.53	-5.75/-6.61	-7.91/-7.32	-5.00/-3.49	-3.12/-3.24	-1.38/-3.89	-4.04/-4.53	-4.16/-5.23	-5.11/-6.23	-5.45/-3.91	-4.12/-5.57	-6.34/-5.89	-5.63/-6.18	-10.04/-9.99	-5.29/-5.07	-4.89/-8.06	-4.69/-4.94	-6.59/-4.06	-5.61/-6.08	-5.06/-4.91	-4.15/-4.95	-3.53/-2.62	
Θ(30°)	-0.67/-1.67	-3.81/-4.75	-5.48/-5.44	-5.17/-6.21	-6.77/-5.41	-3.38/-2.49	-2.74/-2.62	-1.81/-1.46	-1.03/-1.07	-2.66/-3.84	-5.74/-6.55	-4.82/-3.61	-3.39/-4.61	-6.37/-8.44	-9.55/-7.44	-7.75/-10.33	-10.96/-8.97	-6.93/-6.17	-6.45/-5.80	-6.21/-6.92	-6.37/-4.01	-2.56/-3.07	-3.92/-3.38	-2.02/-0.64	
Θ(37.5°)	-0.82/-1.71	-0.75/-1.40	-3.10/-1.55	-1.58/-3.84	-6.71/-5.46	-6.41/-7.03	-4.83/-4.31	-3.75/-5.18	-3.88/-1.66	-2.21/-3.37	-6.47/-7.02	-5.88/-5.07	-5.55/-6.26	-4.12/-8.94	-5.18/-6.76	-6.06/-5.46	-5.91/-4.25	-5.08/-2.86	-8.80/-10.94	-7.25/-3.94	-3.37/-3.71	-3.28/-2.72	-4.40/-3.50	-4.88/-2.05	
Θ(45°)	-3.60/-0.95	-0.07/-1.53	-2.37/-1.18	-0.28/-2.35	-6.05/-6.41	-4.38/-6.15	-5.42/-3.19	-3.30/-3.28	-1.30/-2.04	-4.23/-4.32	-7.65/-7.89	-4.72/-1.16	-1.28/-2.44	-3.49/-6.83	-7.58/-1.00	-8.05/-6.45	-4.51/-3.38	0.63/-0.42	-4.54/-7.72	-4.63/-2.97	-3.72/-4.81	-1.30/-3.14	-0.75/-0.83	-3.54/-0.60	
Θ(52.5°)	-6.50/-1.86	0.08/-0.42	-2.77/-1.11	2.48/-0.19	-3.42/-4.20	-4.48/-3.53	-2.39/-2.26	0.13/0.89	-1.17/-1.44	-2.20/-0.73	-3.23/-2.42	-2.27/-0.74	0.31/-0.11	-0.76/-3.91	-6.31/-4.29	-8.28/-6.59	-8.38/-8.08	-4.54/-1.63	-3.93/-5.49	-6.20/-6.23	-3.34/-0.90	1.41/-1.02	-0.27/-1.19	-3.88/-4.64	
Θ(60°)	-3.28/-4.25	-2.71/-1.06	-6.32/-0.85	1.82/-0.72	-3.12/-6.43	-5.90/-3.13	-1.69/-0.45	1.19/-1.55	-3.28/-2.68	-0.25/-0.40	-1.32/-1.99	-0.97/-1.71	-0.84/-0.47	0.16/-1.40	-3.70/-4.06	-4.98/-3.60	-5.04/-6.38	-5.05/-1.95	-1.15/-1.47	-10.62/-9.55	-0.31/-0.33	0.52/-0.55	-0.94/-2.98	-3.37/-1.60	
Θ(67.5°)	-1.27/-2.93	-5.13/-2.49	-6.66/-3.94	-0.43/-3.97	-3.34/-2.89	-1.33/-1.07	-0.43/-2.32	2.34/0.63	-5.24/-0.65	2.66/-0.59	-1.29/-0.82	0.18/0.28	-2.86/-0.54	0.65/-1.25	-2.90/-0.98	-1.49/-0.75	-2.72/-2.08	-2.80/-5.04	-1.47/-0.93	1.79/0.99	-11.96/-9.66	1.75/-1.00	-3.28/-2.06	-0.46/-1.60	-1.57/-1.04
Θ(75°)	-0.42/-2.63	-4.08/-4.22	-7.17/-5.10	-1.63/-5.65	-6.71/-1.00	1.21/-1.86	-1.61/-0.52	1.54/-0.81	-7.36/-0.46	3.02/-1.32	-4.57/-4.89	0.04/0.54	1.85/-2.32	0.59/-1.23	-2.18/-0.23	-5.12/-3.53	-0.48/-2.85	0.83/-0.06	2.16/-2.61	-8.56/-1.54	2.54/-1.41	-1.99/-3.13	0.10/0.04	0.02/-2.1	
Θ(82.5°)	-1.30/-3.77	-3.85/-5.35	-10.28/-5.43	-2.38/-1.74	-10.71/-3.99	0.08/-0.58	-2.04/-2.04	-1.12/-2.91	-7.79/-0.33	2.18/-0.35	-5.72/-4.85	-1.70/-0.33	0.92/-1.68	0.93/-1.56	-3.08/-2.38	-7.00/-5.23	0.09/-1.32	1.34/-0.12	1.59/-1.88	-5.42/-0.36	2.68/-1.86	-1.77/-1.50	-1.27/-1.00	0.62/-1.82	
Θ(90°)	-3.48/-4.52	-5.11/-5.63	-11.55/-6.17	-3.70/-9.56	-12.70/-0.91	-1.74/-7.26	-1.81/-3.52	-4.12/-4.58	-8.43/-0.95	0.31/-2.69	-6.03/-5.81	-4.01/-1.35	-1.91/-0.02	0.23/-2.60	-4.80/-4.71	-7.18/-10.93	-1.91/-4.20	-1.01/-1.69	-2.05/0.86	-6.91/-0.34	0.91/0.43	-4.11/-6.50	-2.47/-0.92	-0.88/0.13	
Θ(97.5°)	-5.13/-6.22	-7.39/-8.12	-11.05/-5.58	-5.74/-10.36	-14.17/-2.75	-4.65/-8.48	-2.00/-5.45	-7.17/-5.92	-7.61/-1.40	-1.68/-4.80	-6.59/-6.29	-4.14/-3.04	-1.34/-2.19	-5.18/-6.76	-9.62/-11.45	-5.36/-5.47	-6.09/-6.71	-7.54/-2.68	-11.98/-3.08	-3.38/-3.55	-8.38/-5.95	-3.15/-2.69	-3.11/-2.14	-1.11/-2.14	
Θ(105°)	-6.64/-7.24	-11.78/-13.50	-10.88/-9.50	-8.64/-10.02	-11.01/-3.48	-8.79/-4.90	-5.63/-9.87	-11.47/-5.67	-6.88/-6.69	-4.24/-6.39	-7.30/-8.20	-6.31/-4.90	-8.10/-5.96	-4.66/-2.53	-5.37/-6.61	-14.79/-11.52	-6.80/-8.92	-8.98/-11.06	-8.66/-4.24	-15.50/-8.59	-8.52/-7.49	-10.07/-8.50	-3.44/-3.32	-5.63/-2.41	
Θ(112.5°)	-7.13/-7.52	-12.85/-15.67	-10.02/-7.53	-12.39/-9.24	-9.41/-5.28	-10.10/-8.09	-7.38/-7.89	-7.06/-6.43	-5.79/-4.21	-7.39/-8.82	-7.98/-9.04	-6.93/-7.47	-9.78/-7.99	-7.50/-6.42	-6.07/-6.84	-12.16/-14.98	-9.06/-8.92	-7.00/-9.09	-8.28/-4.86	-15.95/-7.53	-3.60/-8.43	-9.75/-9.97	-4.92/-6.71	-7.07/-5.46	
Θ(120°)	-10.79/-8.49	-10.67/-14.83	-9.09/-14.61	-12.21/-7.34	-9.72/-6.55	-11.97/-12.36	-7.42/-4.47	-7.55/-6.41	-8.59/-5.22	-8.86/-11.66	-9.50/-9.93	-7.76/-9.26	-8.62/-10.91	-11.44/-8.94	-11.01/-7.36	-7.76/-15.24	-14.21/-10.75	-7.34/-15.28	-15.58/-9.18	-14.97/-13.21					

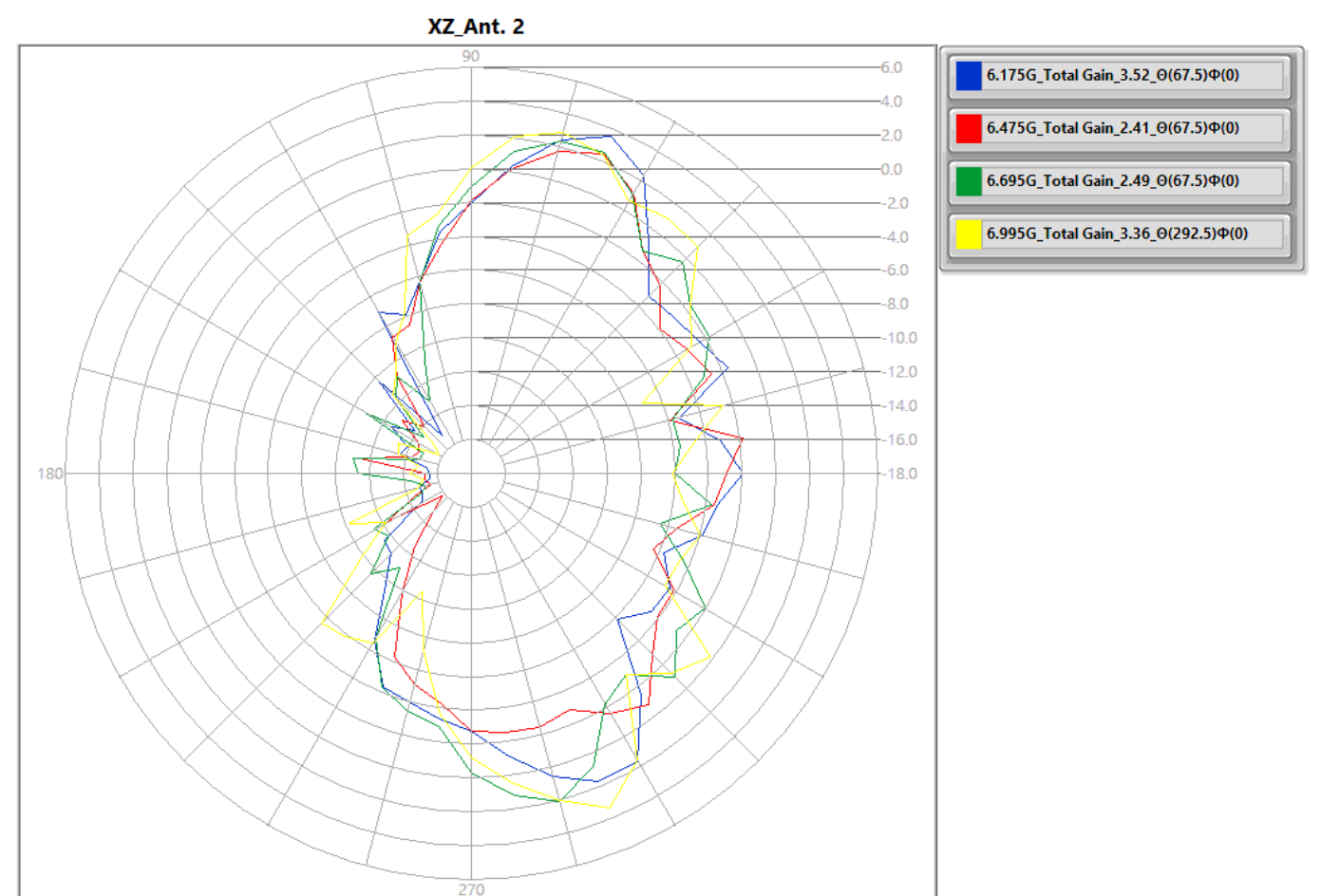
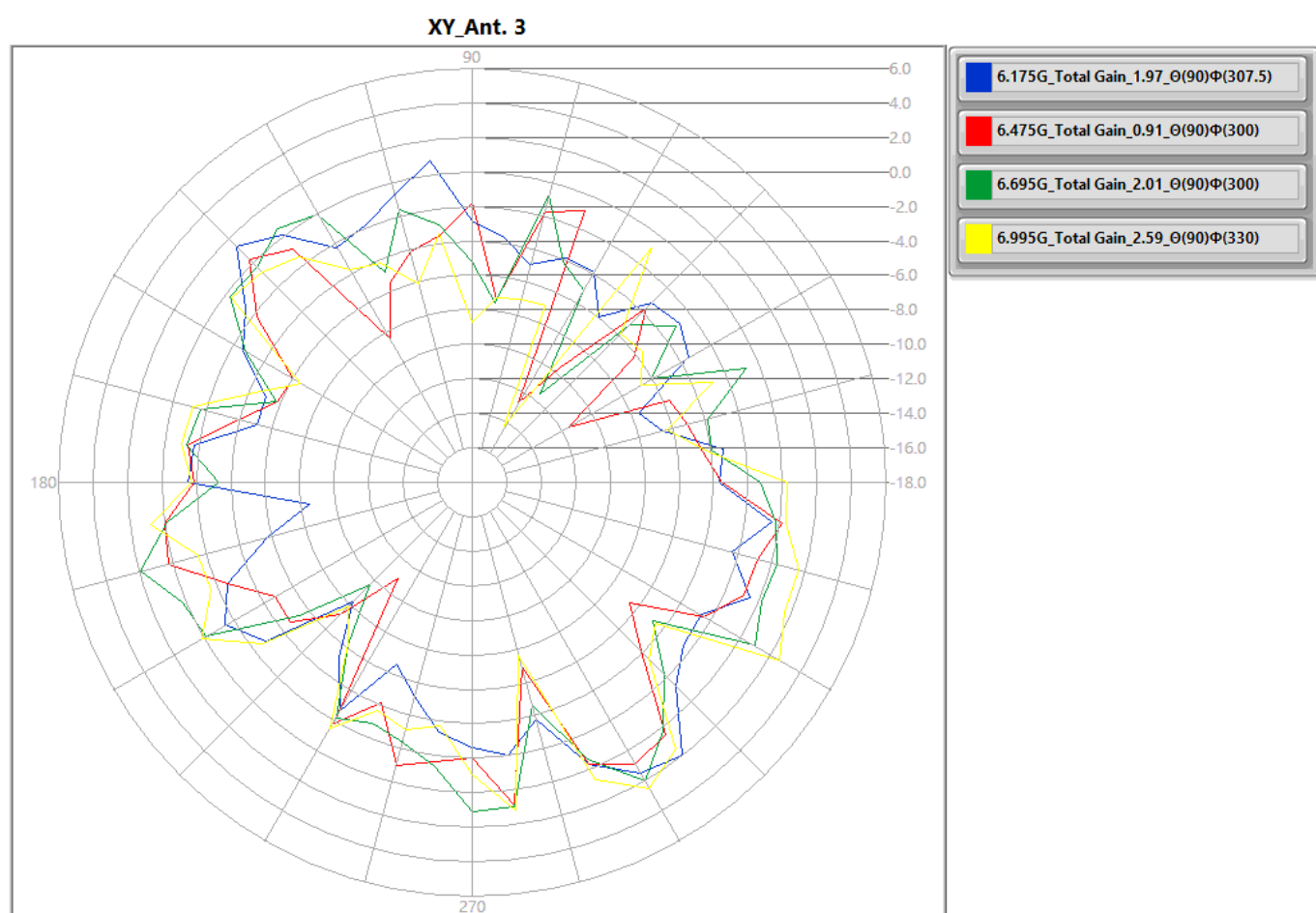
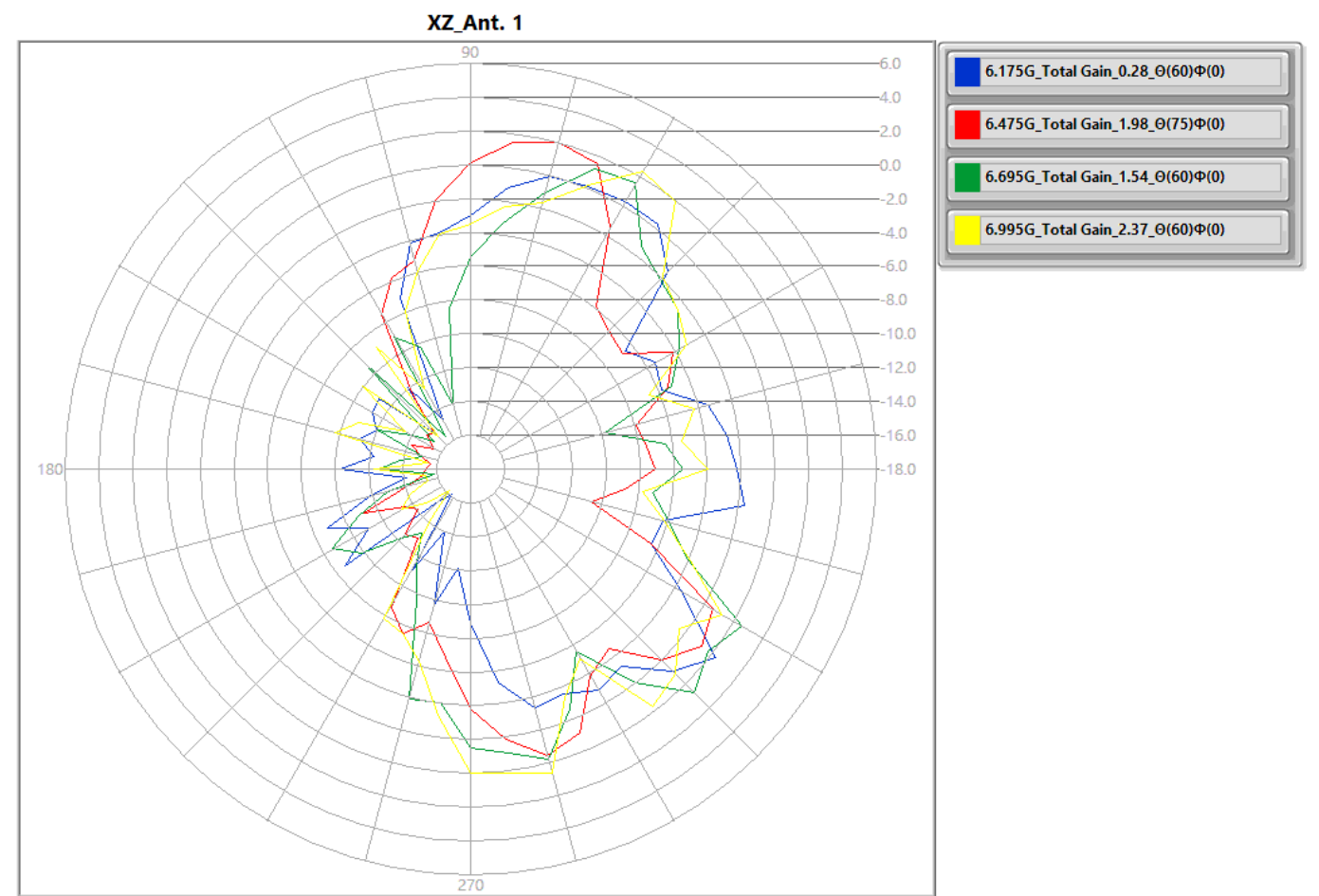
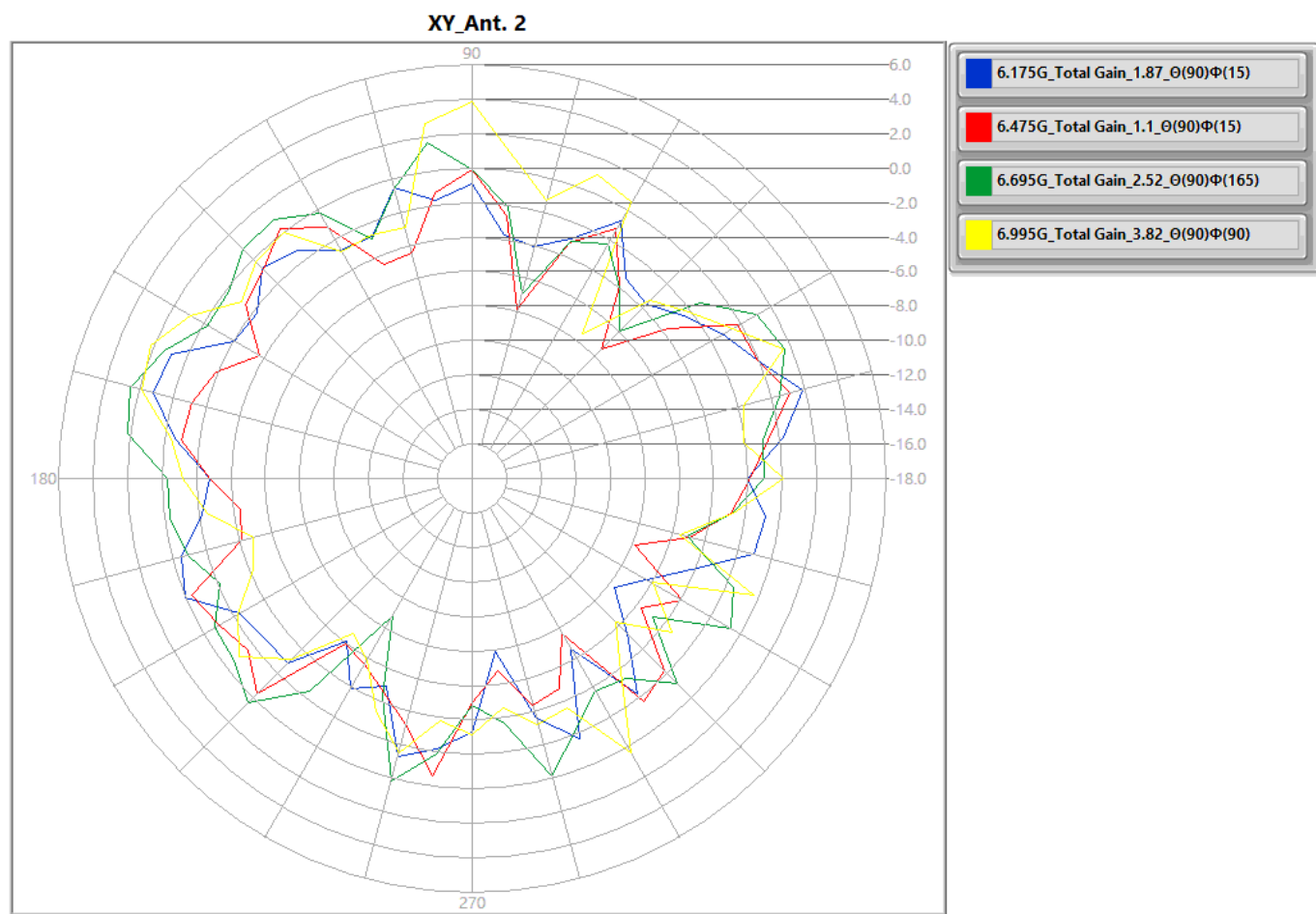
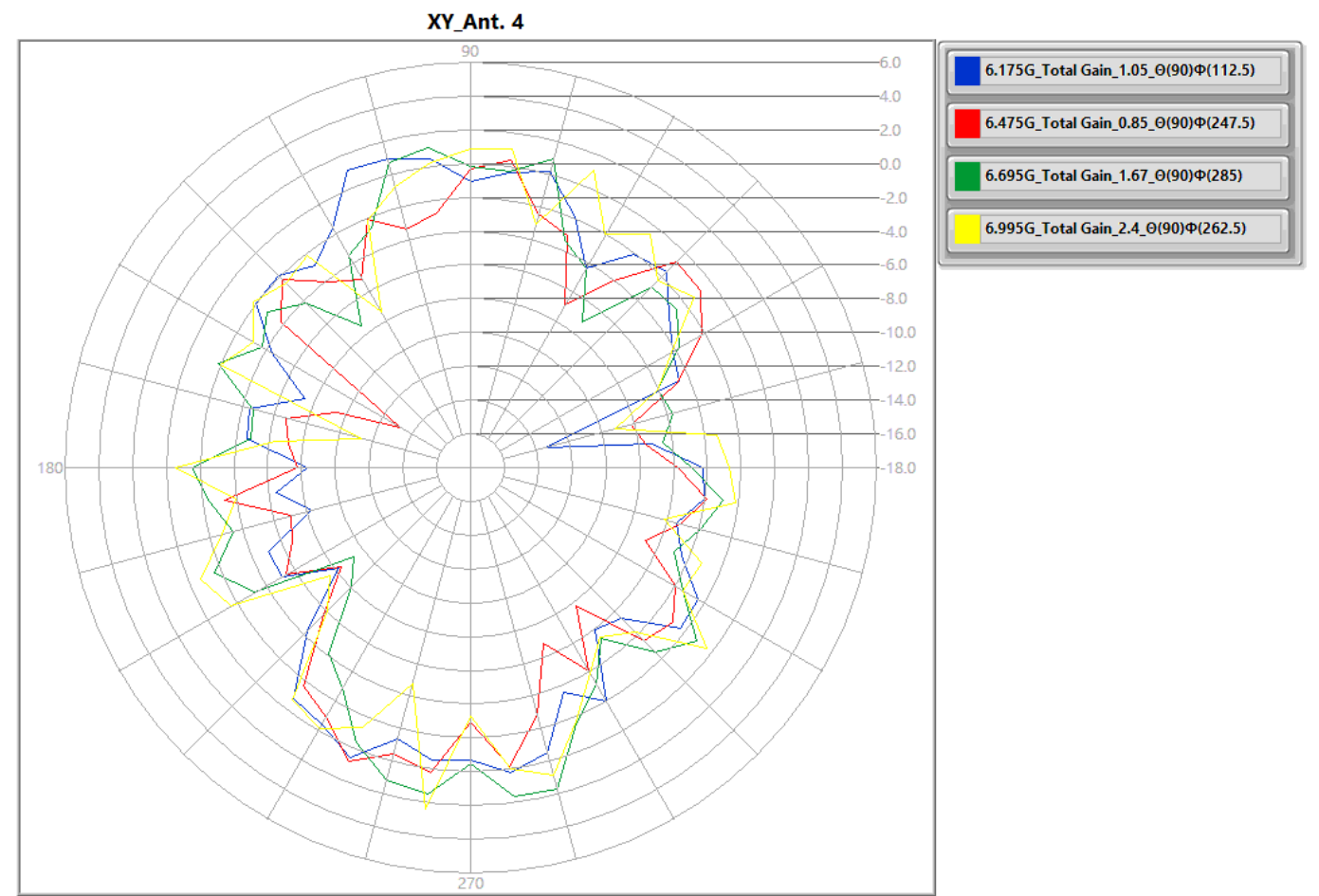
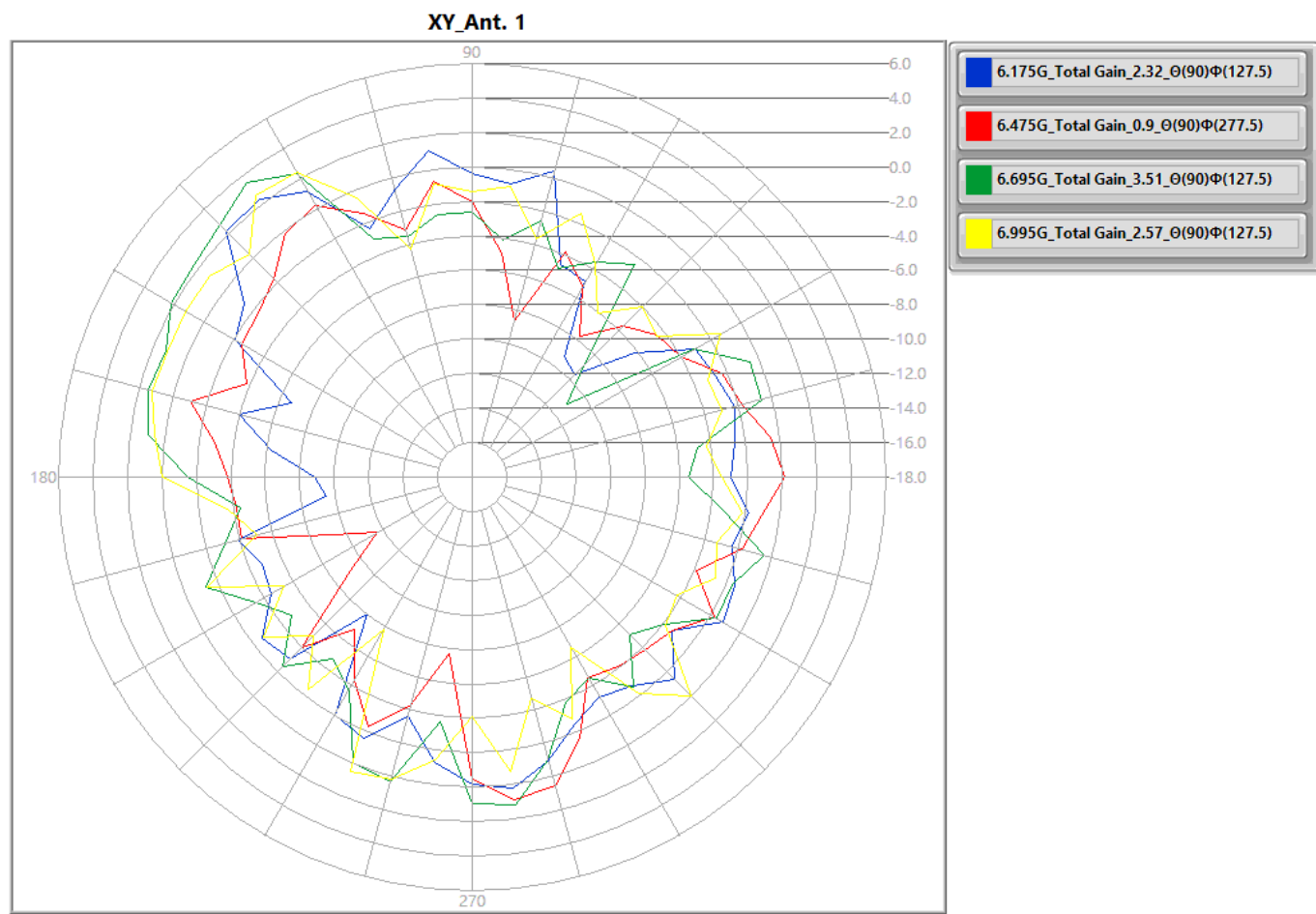


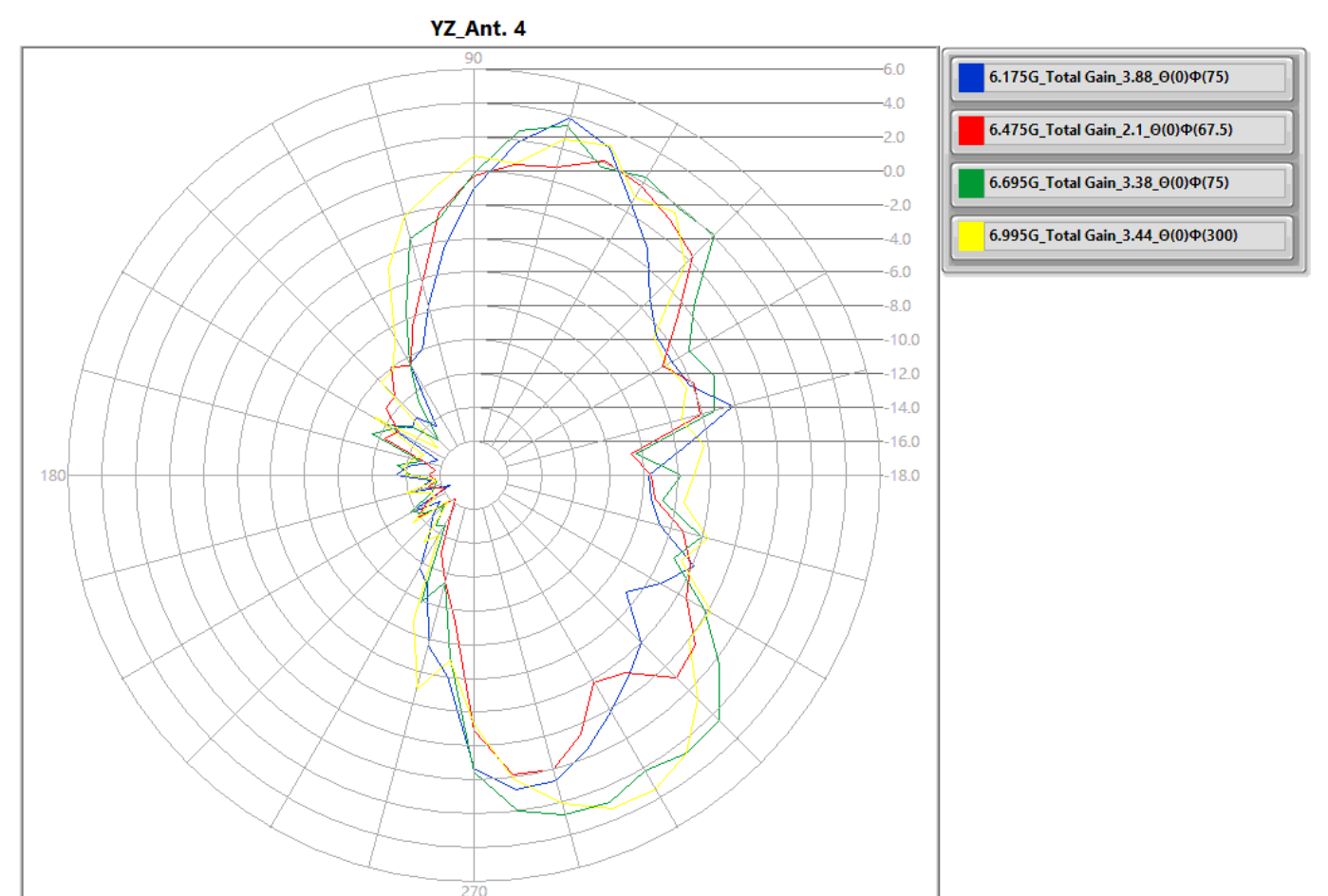
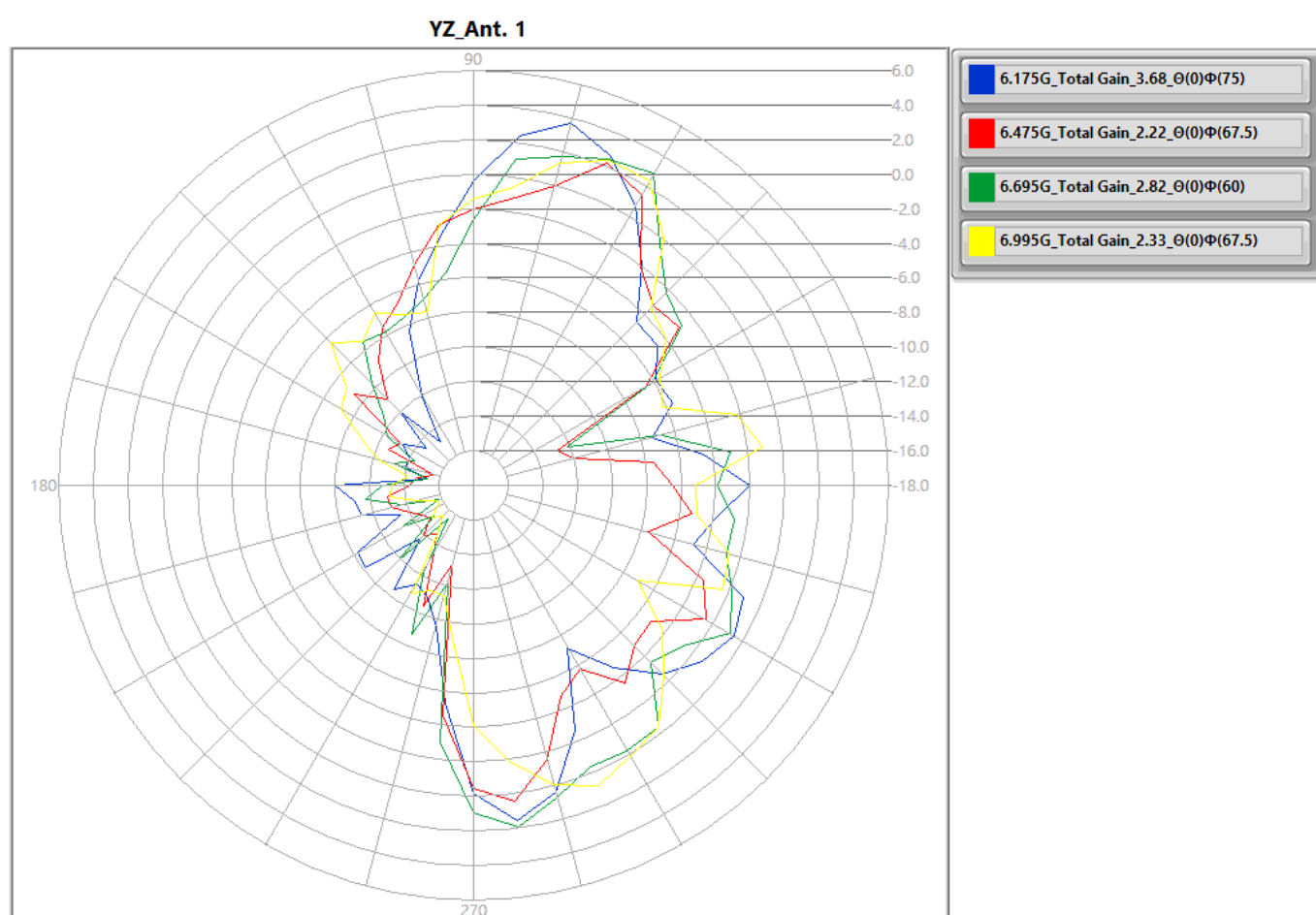
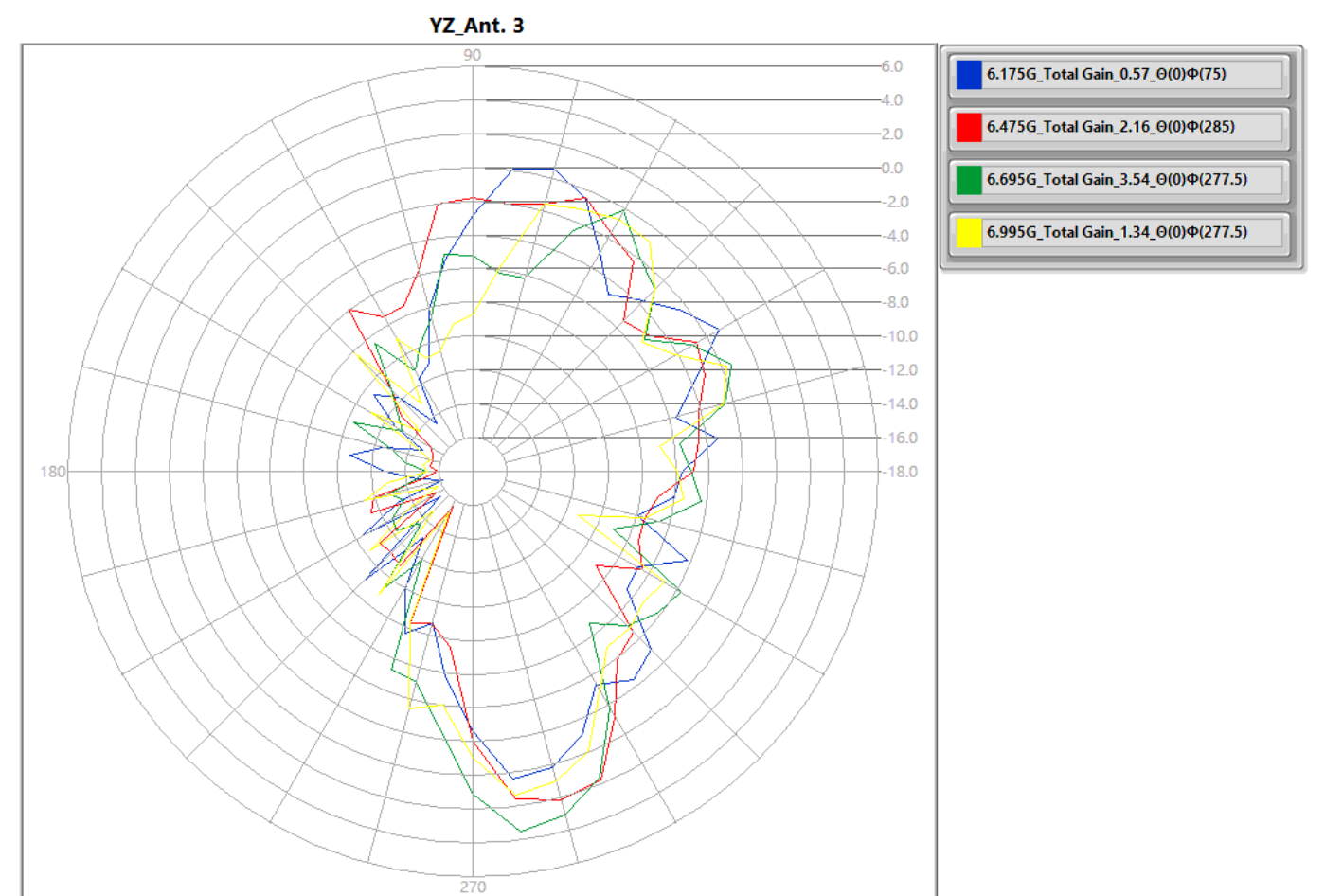
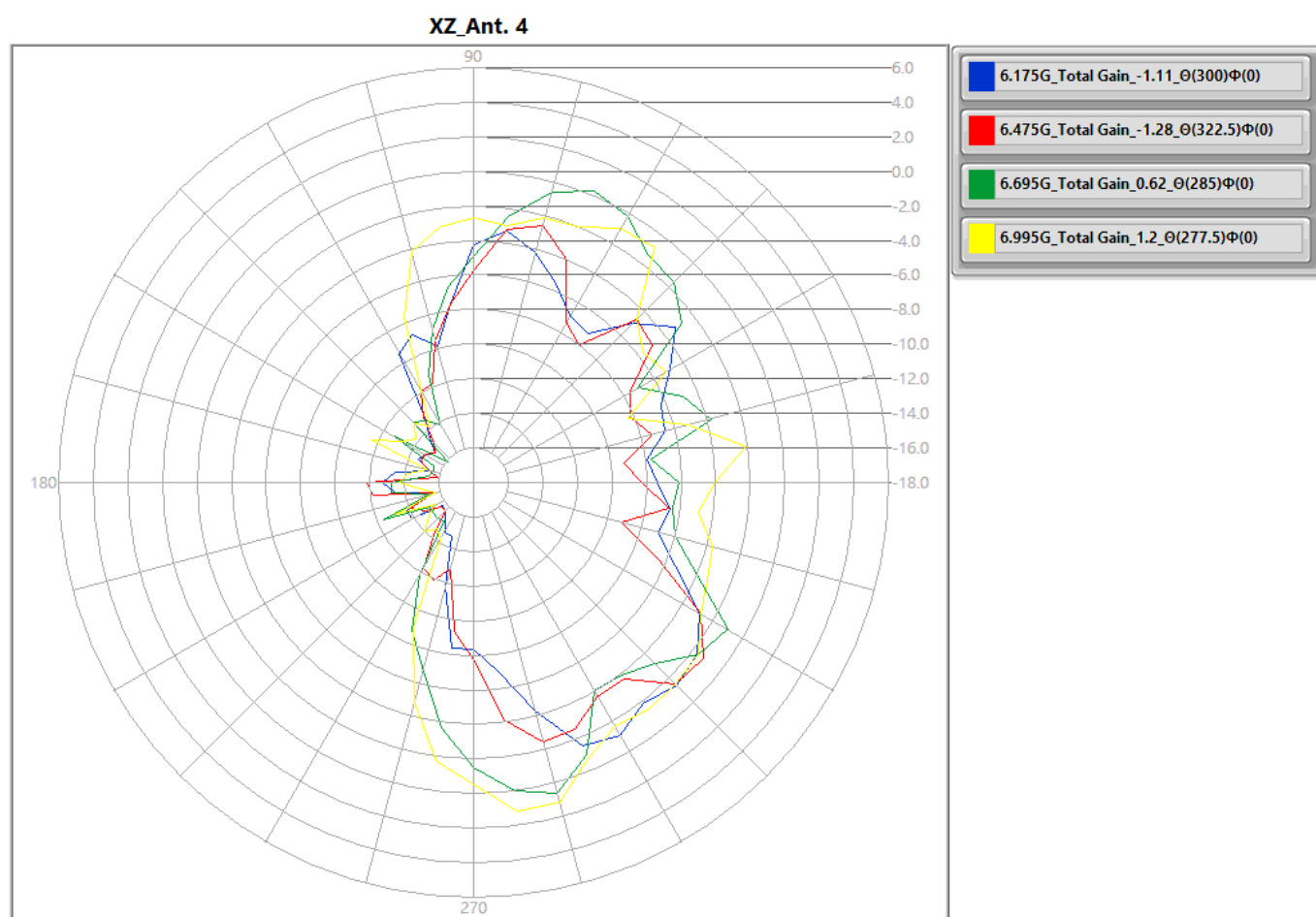
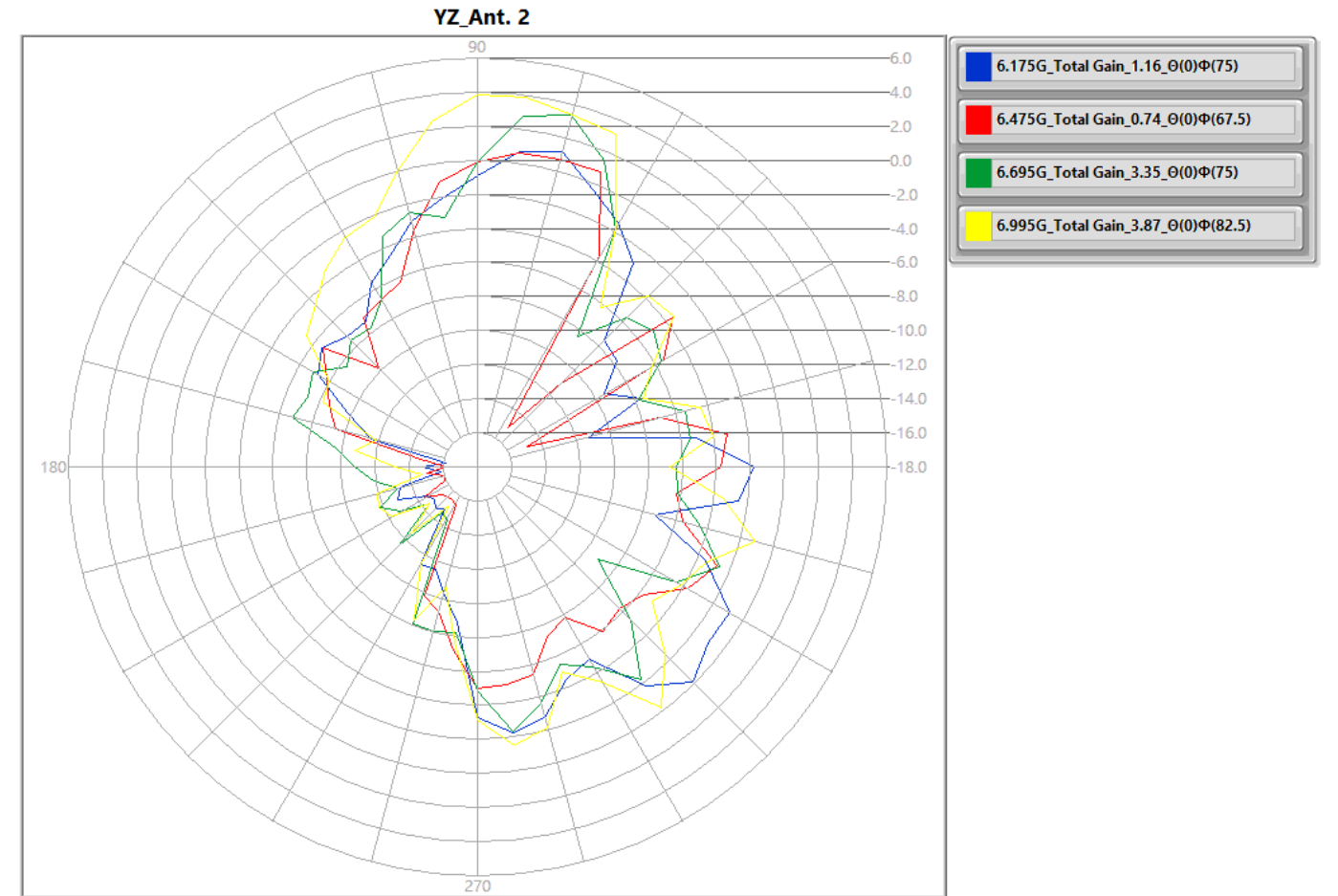
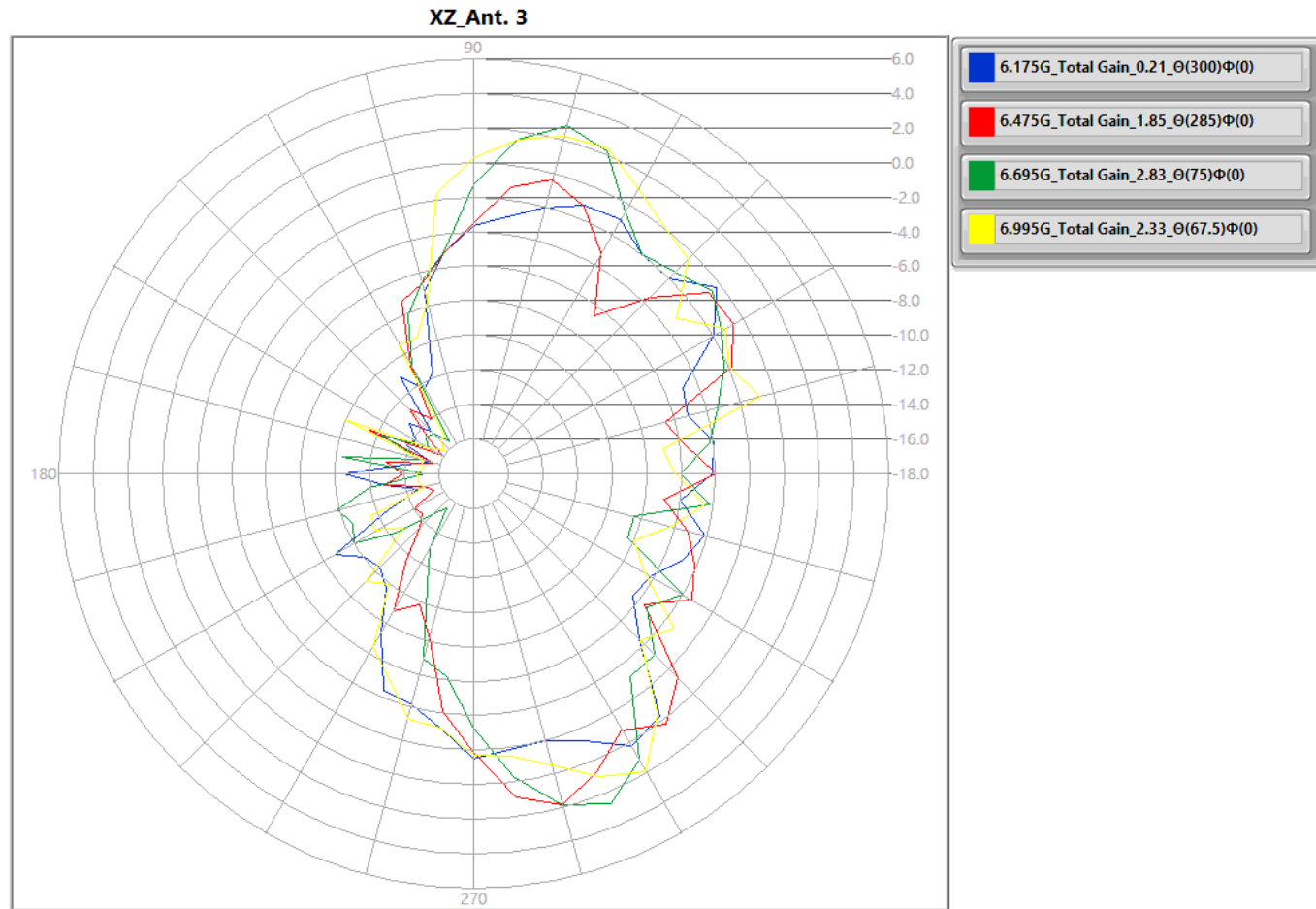
Antenna Pattern_Radio 2

Appendix E

Θ(120°)	-9.38/-13.46	-12.24/-8.14	-9.62/-12.70	-6.99/-10.49	-6.70/-7.57	-5.07/-7.12	-10.36/-10.56	-7.95/-7.43	-11.20/-9.07	-10.54/-13.00	-14.79/-12.17	-10.94/-13.59	-14.67/-11.10	-16.24/-7.12	-10.47/-14.20	-10.59/-11.49	-9.29/-9.67	-10.53/-4.68	-11.64/-10.73	-8.41/-8.20	-9.75/-8.45	-10.28/-9.41	-9.53/-8.40	-14.35/-9.38
Θ(127.5°)	-13.50/-12.90	-13.22/-11.02	-11.55/-12.23	-12.30/-9.45	-6.32/-8.76	-8.13/-10.29	-14.38/-14.24	-10.23/-8.32	-9.11/-10.25	-12.68/-15.25	-15.86/-13.65	-9.35/-13.66	-15.29/-15.37	-10.92/-7.66	-15.59/-15.34	-15.15/-12.07	-12.62/-12.62	-8.39/-4.80	-13.72/-11.50	-9.33/-10.82	-10.41/-8.49	-13.48/-6.19	-13.91/-12.30	-13.42/-10.84
Θ(135°)	-14.38/-12.56	-11.99/-9.44	-10.86/-15.36	-13.28/-13.26	-12.06/-8.87	-8.56/-9.78	-13.20/-9.36	-7.47/-8.28	-10.88/-11.57	-11.86/-10.43	-15.85/-14.14	-11.87/-13.06	-15.70/-15.95	-11.23/-14.22	-11.71/-9.18	-15.35/-11.35	-14.52/-14.88	-6.90/-12.39	-8.08/-13.66	-9.29/-10.16	-11.78/-13.16	-15.42/-15.19		
Θ(142.5°)	-15.16/-15.54	-13.89/-11.40	-13.97/-14.29	-10.51/-12.36	-13.64/-11.68	-11.74/-12.77	-13.38/-12.17	-10.69/-12.48	-10.47/-9.35	-9.92/-12.70	-15.44/-13.68	-14.14/-14.89	-15.79/-14.27	-12.06/-10.89	-13.43/-13.53	-15.28/-14.04	-15.24/-14.93	-9.81/-10.81	-15.48/-15.18	-10.46/-15.07	-14.89/-11.56	-12.28/-13.99	-15.37/-10.36	-14.08/-15.27
Θ(150°)	-14.85/-15.13	-15.79/-14.64	-10.97/-11.27	-14.59/-15.88	-15.60/-16.06	-13.74/-13.20	-12.05/-12.90	-11.22/-9.62	-9.79/-9.31	-8.69/-10.50	-15.37/-15.81	-14.28/-14.77	-13.89/-14.65	-14.21/-15.56	-15.70/-15.39	-14.31/-13.59	-13.84/-14.88	-15.72/-12.82	-13.59/-15.53	-15.56/-11.99	-12.68/-13.52	-15.90/-12.93	-11.36/-13.42	-14.81/-14.80
Θ(157.5°)	-14.53/-15.20	-13.52/-13.28	-14.14/-14.30	-12.01/-11.09	-10.56/-11.54	-14.47/-15.04	-15.69/-12.82	-10.78/-10.64	-11.67/-12.26	-11.28/-12.25	-14.50/-15.37	-14.95/-15.30	-13.82/-12.23	-12.64/-15.39	-15.55/-14.76	-12.87/-14.34	-15.24/-14.38	-12.67/-13.86	-16.45/-15.30	-15.45/-14.41	-15.95/-14.40	-13.13/-14.01	-14.27/-15.61	-12.90/-13.52
Θ(165°)	-15.35/-15.57	-15.29/-14.05	-12.59/-11.40	-11.90/-13.56	-14.71/-15.68	-14.71/-15.28	-15.22/-15.35	-14.53/-13.98	-13.31/-12.78	-11.60/-12.29	-12.94/-12.07	-11.18/-12.57	-15.62/-15.17	-14.12/-12.90	-14.27/-14.53	-13.89/-11.46	-11.03/-10.67	-11.33/-12.61	-14.36/-15.00	-15.00/-15.49	-15.02/-15.85	-15.96/-15.25	-15.11/-14.90	-12.33/-14.02
Θ(172.5°)	-13.45/-13.91	-14.47/-14.46	-13.31/-13.76	-13.63/-13.81	-13.12/-13.32	-13.62/-14.13	-14.05/-13.57	-12.85/-12.69	-12.32/-12.14	-12.31/-13.79	-15.18/-15.57	-15.62/-14.52	-13.45/-13.42	-14.10/-14.64	-15.16/-15.84	-14.59/-13.45	-14.13/-15.08	-15.72/-15.73	-15.44/-15.47	-15.54/-15.23	-15.69/-15.18	-14.89/-14.59	-15.22/-14.51	-14.36/-14.06
Θ(180°)	-12.75/-12.00	-12.82/-12.66	-13.93/-13.97	-14.23/-13.77	-13.75/-14.72	-14.55/-13.95	-12.43/-12.65	-12.68/-12.88	-12.67/-13.00	-14.25/-14.65	-14.17/-13.95	-12.35/-11.89	-12.31/-14.15	-14.28/-13.65	-14.02/-13.35	-12.24/-12.56	-12.60/-12.45	-13.35/-13.17	-13.45/-13.57	-13.18/-13.33	-14.16/-14.66	-13.84/-14.78	-14.32/-14.63	
Freq(Hz)	6.475GPol.	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°)	-8.25/-8.22	-7.80/-8.02	-8.24/-8.54	-8.49/-18.8	-8.16/-7.71	-7.76/-7.39	-7.55/-7.26	-7.08/-7.43	-7.77/-8.20	-8.26/-8.22	-8.00/-7.53	-7.66/-8.14	-8.98/-8.96	-8.64/-9.28	-9.27/-9.30	-9.52/-9.35	-9.76/-9.52	-9.10/-8.60	-8.69/-8.17	-8.23/-8.01	-7.99/-8.08	-8.18/-8.58	-8.94/-8.42	-8.86/-8.82
Θ(7.5°)	-9.25/-10.43	-10.76/-11.21	-12.25/-12.73	-13.20/-12.85	-12.47/-11.74	-10.62/-9.62	-8.60/-8.38	-7.94/-7.54	-7.53/-7.48	-7.50/-7.15	-6.95/-6.71	-6.58/-6.54	-6.58/-6.95	-7.82/-8.14	-7.86/-8.06	-7.40/-7.25	-7.69/-8.17	-7.18/-7.15	-7.69/-8.15	-8.54/-9.06	-9.52/-9.70	-9.48/-9.00	-9.57/-9.47	
Θ(15°)	-7.33/-8.13	-9.32/-9.75	-8.48/-6.80	-7.05/-8.04	-8.41/-7.37	-5.85/-4.84	-4.19/-4.01	-4.39/-4.92	-5.53/-6.61	-7.55/-7.83	-8.48/-8.61	-9.04/-9.41	-9.17/-8.74	-8.50/-8.11	-8.11/-8.53	-8.47/-8.15	-7.09/-6.69	-6.44/-5.60	-5.25/-4.78	-4.63/-5.02	-5.35/-6.61	-7.33/-8.05	-8.02/-7.72	-7.33/-7.10
Θ(22.5°)	-8.16/-7.81	-8.44/-9.27	-9.69/-11.30	-15.22/-15.69	-13.66/-8.91	-6.08/-4.89	-3.90/-3.71	-4.02/-5.12	-6.48/-7.10	-6.88/-6.02	-5.48/-6.20	-7.04/-7.16	-6.43/-5.98	-6.58/-6.57	-7.69/-9.58	-8.37/-6.70	-5.49/-5.57	-5.98/-5.37	-4.14/-2.57	-1.84/-2.31	-4.17/-6.47	-6.77/-7.01	-7.40/-8.16	-8.91/-8.98
Θ(30°)	-7.49/-6.57	-7.27/-9.82	-11.68/-10.82	-9.07/-8.19	-6.69/-6.29	-6.12/-5.57	-5.09/-3.80	-3.10/-3.75	-4.04/-4.03	-3.99/-4.35	-4.14/-3.71	-3.76/-3.89	-2.80/-2.25	-2.50/-2.90	-3.70/-4.56	-3.87/-3.65	-4.69/-5.85	-5.76/-4.17	-3.51/-3.70	-4.26/-4.20	-4.16/-4.83	-5.20/-6.66	-8.04/-10.15	-10.73/-8.38
Θ(37.5°)	-4.96/-6.51	-7.15/-7.89	-8.53/-8.33	-10.38/-12.34	-11.60/-9.58	-6.63/-3.91	-2.33/-3.93	-5.78/-5.96	-4.30/-3.70	-2.80/-3.24	-4.13/-2.86	-2.31/-1.44	-1.28/-1.77	-0.97/-1.79	-2.29/-1.57	-2.73/-3.34	-4.37/-6.24	-4.68/-2.06	-1.55/-3.04	-6.57/-6.12	-5.11/-3.50	-2.78/-3.84	-4.88/-6.33	-6.33/-4.73
Θ(45°)	-4.69/-4.85	-6.58/-8.00	-6.20/-4.45	-5.95/-7.15	-7.57/-5.14	-1.76/-0.72	0.29/-0.32	-2.70/-4.40	-5.18/-4.49	-2.47/-1.11	-2.38/-3.93	-3.76/-2.09	-1.48/-2.78	-1.79/-0.42	-3.05/-2.59	-4.46/-3.99	-1.84/-1.95	-1.53/-1.07	-1.09/-1.23	-1.60/-2.98	-3.56/-4.94	-3.01/-5.21	-5.08/-4.74	-3.56/-4.09
Θ(52.5°)	-7.99/-6.67	-2.29/-3.50	-2.80/-1.31	-2.92/-6.45	-3.84/-0.61	1.240/-47	0.99/-1.50	0.77/-1.34	-2.99/-3.09	0.120/-50	-2.80/-2.36	-1.76/-2.97	-3.68/-4.14	-2.860/-0.51	-0.450/-39	-2.53/-3.07	-2.71/-2.28	-0.70/-2.88	-3.33/-2.60	-1.76/-3.72	-4.50/-7.24	-1.59/-3.35	-3.30/-2.85	-3.43/-6.30
Θ(60°)	-7.31/-4.94	-1.26/-1.80	-1.41/-0.21	-0.22/-3.54	-4.22/-1.78	1.202/-12	1.71/-64	1.21/-2.47	-2.98/-3.09	0.120/-53	-7.61/-6.00	-1.59/-0.26	-3.68/-3.64	-5.47/-1.69	-0.700/-38	-1.48/-1.49	-2.64/-4.65	-0.67/-0.80	-3.86/-2.04	-1.56/-5.30	-0.17/-0.80	-1.76/-2.00	-3.96/-4.68	
Θ(67.5°)	-4.04/-5.39	-1.69/-2.23	-1.24/-1.59	1.69/-1.99	-5.40/-2.06	1.983/-60	2.10/-65	0.82/-3.21	-2.68/-2.00	-0.09/-1.52	-10.64/-7.76	-4.38/-1.14	-2.58/-3.25	-6.11/-3.34	-1.33/-1.02	-2.38/-0.12	0.47/-1.20	0.81/-1.35	-1.46/-0.12	-2.33/-6.13	-3.26/-3.73	0.09/-0.26	-1.46/-2.63	-3.25/-2.47
Θ(75°)	-2.58/-6.46	-3.45/-3.22	-0.96/-2.14	1.52/-1.59	-5.27/-1.71	0.822/-72	0.84/-0.93	-0.46/-0.05	-2.87/-1.26	-0.58/-2.67	-13.78/-9.13	-6.69/-5.75	-2.49/-1.81	-7.99/-4.15	-0.99/-2.78	-2.43/-0.47	1.66/-1.32	1.41/-3.09	-0.02/-1.74	-1.54/-4.64	-4.55/-5.25	-0.64/-0.21	-1.77/-3.54	-2.64/-2.12
Θ(82.5°)	-3.26/-6.86	-6.12/-3.73	-1.180/-94	0.57/-2.29	-5.61/-1.76	-1.101/-42	0.50/-1.92	-2.07/-0.05	-4.10/-1.77	-0.99/-3.64	-15.05/-8.68	-6.48/-7.55	-4.16/-2.28	-8.13/-3.93	-3.25/-5.00	-2.39/-0.05	1.432/-14	1.062/-58	-0.13/-1.70	-1.41/-4.21	-4.72/-6.16	-1.54/-1.13	-3.21/-5.06	-2.96/-2.67
Θ(90°)	-5.73/-7.50	-8.17/-4.73	-2.23/-0.82	-0.81/-0.43	-6.84/-3.11	-2.490/-34	-0.28/-2.78	-3.39/-2.05	-5.14/-4.17	-2.29/-3.87	-13.21/-9.43	-6.68/-7.17	-7.78/-3.28	-7.02/-6.54	-5.43/-8.38	-5.66/-1.74	-0.960/-85	-0.460/-19	-2.89/-0.15	-2.82/-6.78	-4.10/-7.73	-3.54/-2.93	-3.98/-6.79	-5.16/-3.88
Θ(97.5°)	-7.57/-8.1	-10.58/-6.53	-3.62/-3.18	-2.05/-4.34	-6.34/-3.13	-4.01/-2.45	-2.33/-4.24	-5.14/-3.55	-6.59/-6.30	-4.58/-5.49	-11.27/-10.73	-7.45/-6.76	-9.33/-5.99	-8.15/-8.44	-7.17/-10.53	-8.79/-5.25	-4.96/-3.10	-4.76/-3.57	-9.23/-4.82	-7.38/-8.87	-5.20/-9.58	-4.66/-4.30	-5.14/-7.88	-8.30/-5.64
Θ(105°)	-9.53/-10.09	-11.63/-7.87	-6.50/-5.11	-4.20/-5.16	-8.56/-4.38	-5.59/-6.92	-6.24/-6.39	-6.94/-5.72	-9.43/-8.85	-7.57/-7.97	-10.08/-13.11	-9.25/-8.39	-12.85/-8.29	-9.11/-9.54	-5.44/-10.27	-9.77/-7.04	-7.67/-7.04	-5.70/-4.64	-11.50/-9.68	-8.63/-8.64	-6.50/-6.05	-6.15/-9.20	-4.89/-7.29	
Θ(112.5°)	-11.81/-13.20	-13.35/-10.03	-8.99/-7.67	-7.92/-5.42	-8.18/-5.85	-4.87/-8.14	-8.47/-5.85	-7.18/-8.44	-8.57/-9.68	-8.30/-10.63	-11.25/-12.68	-10.38/-9.64	-11.90/-11.34	-11.94/-9.24	-8.69/-11.36	-7.86/-11.38	-4.75/-9.19	-7.48/-4.02	-13.02/-8.44	-10.43/-6.78	-10.23/-14.19	-12.11/-6.98	-8.40/-10.64	-9.13/-9.98
Θ(120°)	-11.93/-13.57	-14.23/-11.15	-9.40/-11.50	-10.08/-8.03	-8.62/-6.61	-6.13/-8.62	-10.55/-10.57	-9.79/-7.71	-11.23/-9.4	-10.09/-12.78	-9.39/-12.58	-10.67/-11.99	-12.24/-10.43	-15.10/-6.36	-7.86/-12.99	-12.48/-12.44	-9.31/-10.99	-12.26/-7.08	-15.16/-15.79	-12.46/-9.47	-12.76/-14.63	-10.85/-8.42	-11.61/-12.25	-10.73/-13.22
Θ(127.5°)	-13.25/-13.37	-13.62/-12.36	-11.67/-15.69	-11.61/-10.48	-8.49/-11.82	-7.03/-9.56	-9.93/-10.86	-12.42/-12.44	-10.68/-10.52	-11.08/-14.48	-15.19/-14.16	-10.29/-14.16	-12.12/-8.61	-12.12/-8.61	-11.86/-10.46	-15.98/-14.51	-9.64/-13.41	-8.37/-6.19	-16.18/-15.82	-15.19/-13.61	-10.62/-11.11	-14.71/-11.88	-12.25/-11.20	
Θ(135°)	-14.79/-15.22	-15.81/-13.07	-14.95/-14.11	-14.58/-13.79	-9.68/-10.42	-8.30/-10.76	-11.34/-10.99	-12.10/-12.05	-14.81/-11.92	-10.59/-11.70	-15.51/-16.21	-14.76/-15.48	-15.72/-15.50	-14.09/-8.89	-15.21/-12.86	-13.02/-13.41	-10.91/-11.51	-8.92/-8.54	-15.61/-14.28	-8.87/-13.35	-10.92/-12.65	-13.61/-9.99	-12.71/-12.67	-15.17/-14.88
Θ(142.5°)	-15.20/-15.10	-13.76/-11.23	-12.11/-15.14	-15.04/-14.03	-14.27/-13.27	-11.45/-10.75	-11.48/-11.24	-13.50/-15.74	-12.91/-10.55	-14.70/-15.30	-14.51/-14.96	-13.76/-14.57	-15.63/-14.55	-13.22/-12.70	-15.52/-13.23	-14.34/-12.68	-14.55/-15.70	-9.41/-10.56	-13.80/-15.84	-11.70/-15.42	-15.49/-15.41	-11.59/-11.54	-14.19/-14.98	-14.99/-14.09
Θ(150°)	-14.78/-15.18	-15.07/-11.95	-11.20/-14.56	-15.20/-14.45	-14.09/-13.66	-14.67/-13.88	-12.91/-14.25	-15.15/-13.40	-13.16/-14.28	-9.68/-11.22	-15.81/-14.96	-14.76/-14.69	-14.74/-14.47	-13.81/-15.41	-15.94/-12.40	-15.94/-12.40	-12.97/-11.31	-14.83/-15.84	-14.86/-13.25	-13.64/-14.93	-15.52/-15.76	-14.96/-11.50	-13.25/-14.79	
Θ(157.5°)	-14.72/-15.54	-14.52/-10.67	-12.01/-15.29	-12.50/-11.41	-11.24/-11.83	-13.66/-14.19	-12.33/-13.17	-15.27/-15.71	-14.38/-14.22	-13.17/-14.22	-14.06/-12.20	-12.20/-15.09	-14.09/-9.70	-12.08/-15.72	-15.95/-14.69	-15.67/-15.37	-15.66/-12.29	-11.90/-14.23	-16.15/-15.12	-15.67/-15.28	-15.44/-14.39	-14.50/-15.18	-14.00/-14.03	-12.90/-12.67
Θ(165°)	-15.22/-15.07	-15.68/-13.63	-11.38/-11.74	-13.51/-13.83	-13.78/-14.28	-14.47/-14.96	-14.95/-15.71	-15.43/-15.																

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 Radio 3 & Radio 4

Appendix F

Θ(22.5°)	-5.28/-3.64	-1.54/-2.01	-2.67/-2.42	-1.68/-1.34	-1.65/-2.07	-2.42/-1.12	-0.40/-0.66	-2.27/-2.87	-2.04/-1.56	-1.64/-2.07	-3.06/-3.65	-3.17/-3.34	-3.06/-3.38	-2.52/-1.71	-2.11/-2.66	-2.70/-3.13	-4.49/-4.68	-2.98/-2.13	-1.97/-1.84	-1.02/-0.09	0.33/0.50	-0.05/-1.32	-2.64/-3.00	-4.20/-5.68
Θ(30°)	-4.24/-2.64	-1.15/-1.38	-2.58/-2.02	-6.01/-3.20	-0.88/-0.09	0.05/-2.24	-4.98/-2.85	-2.83/-4.67	-4.15/-2.91	-3.90/-5.10	-4.50/-3.20	-2.90/-3.29	-3.49/-3.04	-2.24/-1.67	-1.49/-2.95	-3.91/-3.56	-4.56/-4.28	-1.97/-1.15	-1.74/-1.76	-1.15/-1.70	-1.44/-0.38	0.89/0.55	-1.02/-1.58	-0.36/-3.47
Θ(37.5°)	-3.12/-1.88	-1.49/-2.65	-3.23/-5.06	-4.32/-0.22	0.38/-0.44	0.05/-3.36	-1.64/-0.05	-2.80/-2.34	-4.63/-4.36	-6.61/-6.82	-5.33/-2.57	-1.94/-2.95	-3.52/-2.74	-1.70/-1.67	-1.60/-5.28	-0.30/-4.39	-2.30/-2.87	-1.20/-0.60	-0.90/-13.14	-0.90/-0.72	-0.66/0.05	0.04/-2.20	-5.02/-9.72	
Θ(45°)	0.54/-0.67	-0.68/-1.60	-3.53/-3.25	-0.96/0.78	0.93/-2.03	-0.60/-3.59	-3.90/-1.87	-3.17/-2.64	-2.36/-0.54	-1.86/-3.70	-4.40/-1.57	0.96/2.32	1.78/0.91	-0.83/-2.53	-2.23/-3.71	-7.89/-7.76	-3.46/-6.13	-4.13/-1.34	-3.01/0.10	0.51/0.80	1.94/0.37	-1.48/-0.73	-1.05/-2.57	-2.88/0.22
Θ(52.5°)	2.80/-0.35	-0.40/1.74	0.27/-0.53	1.49/1.67	1.75/-2.92	-0.55/-1.75	0.59/0.42	-3.61/-2.11	-3.49/-1.96	-3.46/-4.30	-5.10/-1.92	1.32/2.52	1.33/0.45	-1.10/-3.03	-5.70/-5.44	-5.79/-7.09	-3.67/-11.01	-11.50/-4.53	-5.85/-2.28	-0.95/0.64	1.82/1.60	0.51/-1.38	-0.70/-2.88	-0.72/2.66
Θ(60°)	2.14/-0.01	-1.91/0.79	-2.17/-2.35	0.19/2.53	2.53/-2.08	0.58/1.89	1.19/1.13	-2.54/-1.91	-3.29/-2.87	-5.79/-4.63	-4.26/-3.04	-0.30/0.44	-0.88/-1.80	-1.43/-1.91	-5.56/-3.21	-1.62/-3.78	-0.03/-4.32	-7.16/-5.83	-2.57/-2.19	-2.60/-0.46	1.54/1.58	-0.64/-2.20	-0.51/-3.94	-3.32/-5.41
Θ(67.5°)	1.81/1.14	0.09/1.56	-0.29/0.39	0.11/1.96	1.84/-0.41	2.19/2.36	-0.44/-0.04	-1.31/-0.42	-2.54/-2.10	-6.11/-4.14	-4.98/-3.96	0.34/2.31	1.14/-0.35	-2.47/-3.29	-3.22/-1.92	-0.43/-3.26	0.17/-2.29	-1.24/-3.67	-2.88/-0.94	-1.23/-0.35	1.73/1.40	-1.84/1.03	1.27/-1.16	0.72/2.04
Θ(75°)	1.78/1.24	1.84/2.42	0.26/0.91	1.90/1.35	1.22/0.94	2.14/1.17	-1.64/-0.40	-0.03/-1.12	-1.61/-2.72	-5.80/-2.76	-3.96/-7.00	-1.07/2.30	1.88/0.04	-2.71/-3.75	-1.77/-1.71	-0.85/-3.49	-0.90/-0.39	1.29/0.67	-0.41/-0.63	-0.19/0.32	2.15/1.71	-1.77/0.48	1.77/-0.12	1.75/2.85
Θ(82.5°)	0.70/0.86	1.45/1.50	-0.49/-0.05	1.70/0.49	0.74/0.84	0.77/-0.57	-3.10/-0.04	0.11/1.60	-1.14/-3.54	-5.53/-2.02	-4.53/-7.93	-1.43/1.07	0.27/-0.84	-2.82/-4.54	-1.85/-1.45	-2.77/-4.15	-1.84/0.17	1.83/1.59	0.77/-1.13	-1.14/0.35	2.42/1.86	-1.91/-1.76	0.07/-1.74	0.44/2.09
Θ(90°)	-1.95/-0.36	0.40/-0.78	-1.18/-0.88	0.30/-0.61	0.03/0.17	-0.63/-4.02	-5.61/-1.88	-1.41/0.03	-2.28/-3.76	-4.73/-1.82	-5.36/-9.07	-3.33/-0.45	-1.78/-2.42	-1.89/-5.57	-2.44/-1.26	-4.72/-5.32	-4.35/-0.59	0.05/0.79	0.09/-2.92	-3.12/-1.33	0.35/0.31	-2.36/-4.57	-2.53/-3.59	-1.65/0.39
Θ(97.5°)	-3.16/-1.40	-0.97/-3.69	-2.07/-2.92	-1.18/-2.24	-0.95/-1.05	-2.12/-5.22	-7.15/-1.69	-2.18/-1.36	-3.09/-5.13	-5.52/-3.16	-6.87/-8.51	-4.03/-3.00	-3.52/-3.61	-2.93/-7.63	-4.22/-2.14	-6.24/-6.16	-6.11/-3.11	-2.36/-1.62	-2.88/-5.60	-6.57/-5.06	-3.04/-3.25	-5.42/-7.38	-4.45/-5.63	-2.94/-1.98
Θ(105°)	-4.56/-3.15	-2.83/-5.94	-3.28/-4.23	-3.08/-4.33	-3.06/-2.08	-4.52/-7.47	-11.00/-4.16	-3.56/-3.78	-4.57/-6.44	-8.31/-4.81	-6.62/-5.80	-4.07/-6.65	-4.02/-7.51	-6.49/-3.36	-6.08/-9.36	-6.64/-4.95	-4.73/-4.69	-6.68/-9.24	-5.94/-10.00	-10.81/-6.73	-6.10/-7.48	-5.28/-7.20	-5.66/-4.86	
Θ(112.5°)	-8.32/-7.71	-4.86/-8.28	-4.42/-5.68	-5.24/-7.83	-4.79/-3.83	-5.31/-10.07	-12.39/-6.11	-6.99/-4.14	-5.06/-6.20	-8.19/-9.17	-12.66/-9.38	-6.02/-9.00	-6.53/-6.00	-6.38/-11.34	-8.77/-5.52	-8.03/-10.25	-8.48/-9.50	-7.08/-6.90	-8.17/-7.80	-6.10/-12.05	-7.80/-5.69	-6.31/-5.83	-10.01/-13.80	-10.93/-4.29
Θ(120°)	-12.91/-6.10	-5.25/-7.50	-4.97/-6.36	-9.03/-8.78	-6.17/-6.01	-8.11/-9.56	-11.46/-9.32	-8.86/-5.80	-6.38/-8.23	-9.18/-11.33	-11.27/-9.57	-8.19/-10.10	-8.73/-7.25	-6.81/-11.35	-14.26/-8.48	-10.52/-9.13	-7.11/-12.07	-15.92/-7.84	-10.79/-14.60	-7.79/-14.60	-10.93/-4.93	-12.12/-8.25	-12.96/-5.25	-12.96/-5.25
Θ(127.5°)	-7.76/-5.32	-5.49/-5.84	-6.24/-12.55	-8.39/-12.26	-7.22/-8.59	-13.46/-13.17	-13.96/-14.56	-10.27/-6.40	-6.25/-8.88	-12.28/-13.41	-10.88/-9.19	-11.30/-10.15	-8.76/-4.99	-9.96/-12.21	-14.07/-8.09	-9.60/-10.18	-8.90/-11.50	-12.43/-9.99	-11.68/-11.51	-7.25/-12.02	-13.54/-13.31	-8.68/-9.12	-9.95/-6.32	-10.87/-8.19
Θ(135°)	-15.47/-8.02	-7.34/-9.19	-15.12/-8.26	-8.41/-9.89	-8.21/-10.74	-15.19/-13.23	-11.39/-10.29	-7.20/-7.14	-8.13/-11.75	-14.61/-11.20	-10.78/-10.11	-14.33/-13.34	-14.32/-8.44	-9.39/-10.18	-15.77/-7.99	-9.95/-8.48	-12.11/-12.64	-15.05/-14.42	-11.81/-14.33	-9.12/-12.38	-11.92/-14.58	-10.65/-13.99	-12.09/-8.28	-8.99/-11.83
Θ(142.5°)	-9.97/-9.29	-10.20/-12.40	-11.84/-13.76	-10.31/-6.02	-10.24/-11.67	-12.97/-13.45	-15.12/-12.84	-10.23/-13.61	-9.88/-7.27	-10.11/-11.48	-8.63/-10.56	-12.72/-14.02	-12.55/-6.11	-9.61/-11.01	-12.87/-11.25	-10.91/-10.35	-13.49/-14.99	-9.69/-11.41	-13.42/-14.78	-11.72/-13.14	-11.19/-16.34	-15.39/-14.56	-11.31/-11.64	-9.03/-9.27
Θ(150°)	-15.45/-13.62	-15.22/-9.58	-7.87/-8.09	-8.01/-9.51	-13.84/-10.12	-11.26/-11.31	-9.38/-13.46	-8.87/-6.86	-8.00/-9.55	-10.99/-13.61	-9.60/-11.49	-12.06/-14.80	-11.74/-8.75	-9.85/-10.03	-13.73/-13.10	-13.46/-13.36	-16.09/-12.35	-12.03/-14.61	-13.82/-14.77	-13.72/-15.53	-15.85/-15.20	-14.62/-11.81	-14.79/-10.37	-10.34/-12.95
Θ(157.5°)	-11.70/-11.34	-11.77/-10.79	-11.53/-13.96	-11.37/-10.12	-8.72/-9.46	-13.96/-12.72	-9.37/-10.00	-10.64/-9.32	-8.40/-7.65	-9.39/-11.07	-12.06/-12.46	-11.31/-13.11	-15.09/-12.10	-10.93/-11.18	-10.12/-14.85	-15.88/-14.15	-13.38/-11.03	-12.10/-12.12	-11.74/-12.90	-15.44/-14.86	-15.46/-15.28	-13.63/-12.52	-11.80/-12.28	-12.69/-13.07
Θ(165°)	-14.80/-13.95	-15.52/-14.34	-12.28/-11.61	-12.20/-14.29	-15.09/-12.88	-10.50/-1.95	-9.23/-11.17	-11.52/-10.26	-9.25/-9.59	-11.90/-12.83	-14.16/-15.49	-14.93/-14.39	-14.04/-14.96	-15.29/-13.73	-11.37/-10.30	-10.30/-11.51	-12.85/-15.36	-15.03/-13.14	-13.05/-15.75	-15.61/-15.88	-15.13/-16.49	-14.23/-14.04	-14.80/-13.71	-14.26/-14.55
Θ(172.5°)	-13.69/-14.18	-13.95/-15.24	-15.44/-15.46	-15.94/-15.33	-14.69/-15.83	-15.57/-14.73	-15.04/-14.51	-14.43/-14.94	-15.41/-14.84	-15.35/-14.79	-14.00/-14.51	-12.96/-11.93	-11.53/-13.23	-14.87/-15.04	-15.92/-13.78	-14.58/-15.43	-15.40/-15.90	-15.44/-16.18	-15.28/-16.01	-15.21/-15.50	-14.51/-15.40	-14.97/-13.68	-12.08/-12.38	-12.30/-12.57
Θ(180°)	-15.14/-15.32	-15.10/-15.35	-15.83/-15.46	-15.29/-15.46	-15.95/-15.08	-16.21/-15.80	-15.21/-15.68	-15.52/-15.30	-14.02/-14.16	-13.99/-13.69	-13.28/-14.94	-13.33/-14.01	-13.10/-13.02	-12.92/-13.95	-15.67/-15.58	-15.18/-14.66	-14.27/-14.42	-15.09/-16.09	-15.36/-14.62	-15.27/-15.21	-15.86/-16.04	-15.95/-15.38	-14.92/-14.83	-15.41/-15.85
Freq(Hz)	6.175GPol.	TotalAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)
Θ(0°)	-4.51/-4.49	-4.50/-4.12	-3.96/-4.04	-4.11/-3.76	-3.58/-3.28	-3.50/-3.57	-3.31/-3.54	-3.75/-3.53	-3.43/-3.01	-2.74/-2.86	-3.36/-3.04	-2.38/-2.49	-2.78/-2.42	-2.91/-3.12	-3.07/-3.58	-3.58/-3.27	-3.30/-3.23	-3.36/-3.80	-3.83/-3.50	-3.18/-3.30	-3.75/-3.65	-3.34/-3.48	-4.49/-4.64	-3.84/-4.12
Θ(7.5°)	-4.65/-3.56	-6.67/-6.36	-5.94/-7.35	-5.46/-4.80	-4.24/-3.61	-3.45/-4.38	-4.64/-5.08	-5.81/-6.25	-7.13/-6.84	-6.76/-7.48	-6.63/-5.26	-4.83/-5.08	-4.91/-5.48	-3.52/-3.94	-2.71/-2.38	-3.52/-3.19	-2.72/-2.38	-2.24/-2.25	-1.96/-1.46	-1.14/-0.84	-1.13/-1.11	-0.75/-0.88	-1.66/-2.40	-2.88/-3.29
Θ(15°)	-4.53/-5.38	-6.42/-6.35	-6.25/-5.85	-4.75/-3.37	-2.56/-1.44	-1.22/-0.94	-0.94/-0.74	-3.93/-1.18	-1.94/-3.01	-3.26/-3.91	-2.73/-3.22	-3.76/-3.52	-2.29/-2.34	-1.71/-1.87	-2.22/-1.97	-2.61/-1.68	-1.32/-1.03	-1.41/-1.88	-2.24/-2.06	-1.98/-1.85	-1.66/-1.62	-1.37/-2.34	-3.51/-3.69	
Θ(22.5°)	-5.18/-7.55	-6.71/-5.39	-3.73/-2.55	-2.30/-2.23	-2.70/-3.06	-2.59/-1.52	-1.33/-1.71	-1.34/-0.62	-0.24/-0.51	-0.89/-2.37	-5.69/-6.57	-8.91/-6.89	-5.37/-3.84	-3.38/-4.20	-4.46/-3.50	-2.69/-2.71	-2.77/-2.93	-2.31/-1.07	-0.93/-2.23	-4.30/-4.40	-3.17/-2.67	-2.42/-1.56	-0.57/0.34	0.06/-1.74
Θ(30°)	-5.29/-2.92	-4.25/-3.93	-1.80/-1.68	-2.40/-1.86	-0.96/-1.92	-5.59/-6.82	-5.09/-6.47	-8.41/-5.92	-3.81/-2.90	-2.22/-2.68	-5.08/-4.95	-4.23/-4.57	-3.43/-3.16	-3.20/-3.33	-10.12/-3.78	-5.50/-3.71	-1.42/-1.03	-1.68/-0.35	0.28/0.15	0.46/0.20	-1.04/-0.43	-6.90/-7.26	-7.45/-4.02	-3.39/-6.31
Θ(37.5°)	-4.88/-2.90	-1.60/-0.36	-1.44/-2.15	-4.01/-4.21	-2.85/-1.72	-3.09/-6.27	-3.71/-5.65	-6.45/-5.88	-7.88/-8.34	-5.48/-2.97	-4.09/-4.89	-2.15/0.76	1.04/-0.76	-3.44/-6.68	-8.81/-6.36	-4.98/-5.01	-1.12/-1.18	-2.78/0.23	-0.07/-1.24	0.82/0.44	-0.37/-1.66	-3.63/-3.39	-2.05/-1.59	-2.45/-4.55
Θ(45°)	-0.16/-0.03	0.01/0.78	-3.49/-3.84	-3.91/-1.12	-1.13/-3.73	-2.30/-5.21	-1.35/-5.49	-1.17/-2.29	-6.58/-5.19	-4.68/-2.59	-4.17/-5.39	-1.35/-1.13	-1.48/-0.20	-0.17/-2.31	-5.27/-3.55	-3.52/-5.89	-8.31/-1.97	-3.83/-1.00	-0.18/-3.26	-0.54/-0.43	1.12/0.25	-5.58/-10.44	-4.33/-0.73	-2.93/-1.47
Θ(52.5°)	1.37/1.56	1.83/0.04	-0.53/-3.58	-4.58/-1.77	-0.54/-0.68	-1.38/-0.96	0.68/-1.87	0.29/-3.50	-1.97/-2.49	-2.94/-2.86	-4.69/-5.25	-2.30/-1.40	0.85/-1.20	-1.53/-1.64	-4.67/-5.09	-6.34/-5.34	-14.86/-5.43	-4.68/-2.32	-1.10/-3.13	-2.68/-3.12	-1.28/0.51	-3.20/-2.47	-0.68/-6.11	0.49/1.68
Θ(60°)	1.11/0.61	2.26/2.30	-1.98/-6.55	-2.50/0.57	-2.09/0.70	2.83/2.37	1.54/0.59	-1.44/-2.93	-2.57/-4.24	-2.51/-0.64	-4.60/-6.53	2.29/1.93	-1.25/-3.45	-2.36/-2.39	-4.89/-5.83	-11.03/-5.81	-8.73/-4.58	-1.63/0.65	-0.91/-6.18	-3.70/-0.31	-4.13/-4.69	-1.39/0.22	1.01/-1.72	
Θ(67.5°)	0.83/-0.41	1.63/0.70	-3.19/-15.54	-1.23/1.00	0.60/0.84	3.79/2.75	0.50/0.83	-1.23/-1.04	-6.25/-6.37	-1.56/0.22	-5.80/-6.94	-3.11/-0.58	0.23/0.29	-1.23/-3.99	-1.55/-0.59	-2.13/-2.58	-5.62/-2.14	-8.65/-4.51	-2.54/2.38	1.03/-3.44	-0.88/-0.95	-5.99/-6.76	-1.94/0.16	0.51/-1.61
Θ(75°)	0.30/-0.53	1.72/1.86	-0.90/-6.20	-0.73/0.86	2.7																			



Antenna Pattern_Radio 3 & Radio 4

Appendix F

Θ(60°)	2.49/2.29	4.53/4.21	2.75/2.13	-4.04/-9.51	1.50/1.03	-1.93/1.24	1.11/1.56	-3.66/-3.67	-4.87/-2.94	-2.15/-5.09	-2.07/-1.98	0.20/-2.50	-1.00/1.68	0.66/-0.90	-1.80/-3.66	-2.21/-1.23	-4.03/-5.93	-9.09/-8.86	-4.72/-7.45	-4.92/-4.03	-3.79/-12.26	-2.58/-0.14	-1.35/3.37	2.73/2.21
Θ(67.5°)	-2.22/0.69	2.19/2.52	-0.84/0.72	-4.20/-0.18	0.21/1.34	2.96/4.12	4.34/3.41	-0.37/-2.14	-2.30/-0.47	0.76/-4.39	-3.89/-1.09	1.00/-1.81	-0.80/1.71	1.09/-1.89	-0.66/-1.15	0.09/-0.47	-3.97/-4.26	-7.32/-7.98	-2.35/-3.98	-3.74/-2.62	-3.87/-4.56	-4.63/-0.62	-2.81/2.97	0.37/-0.06
Θ(75°)	-5.61/-0.36	2.42/2.57	0.30/-0.93	-3.84/2.83	1.89/1.08	5.13/3.77	4.68/3.01	0.36/-0.48	0.86/0.87	3.11/-1.63	-4.86/-1.32	0.04/-0.85	1.26/1.30	-0.68/-0.38	-1.06/-2.56	0.19/-0.68	-3.23/-1.83	-2.36/-4.67	-1.00/-1.34	0.10/-2.97	-0.97/-2.22	-12.86/-0.66	-0.89/2.34	0.81/-0.56
Θ(82.5°)	-3.39/-0.22	3.64/3.64	2.18/-0.96	-2.47/3.59	1.67/0.25	5.07/3.79	3.69/2.52	0.11/-0.87	1.69/1.50	2.93/-2.42	-7.03/-2.00	1.31/2.25	1.63/-0.06	-1.47/-4.72	-2.88/-3.76	-0.36/-1.56	-2.73/-1.44	-0.38/-2.64	-2.31/-0.97	0.66/-2.60	-0.81/-1.28	-11.85/-0.79	0.87/1.46	0.77/-1.01
Θ(90°)	-4.02/-1.40	2.89/3.01	1.51/-1.44	-2.91/2.67	1.54/-1.40	4.62/2.26	0.92/1.84	0.98/-0.84	1.49/0.41	2.02/-2.02	-7.27/-3.97	0.83/1.93	0.29/-0.29	-2.47/-4.29	-3.89/-4.97	-1.10/-3.83	-2.69/-2.73	-1.54/-2.44	-5.30/-3.52	-0.22/-3.32	-2.20/-3.23	-10.57/-0.96	-0.02/-0.68	0.44/-2.98
Θ(97.5°)	-4.89/-4.40	0.96/1.50	0.15/-2.50	-2.91/1.49	0.17/-3.43	3.05/-0.06	-2.09/0.24	-0.35/-1.76	0.65/-0.21	0.13/-6.05	-8.74/-2.67	0.30/-0.04	-1.32/-2.70	-2.55/-5.14	-4.44/-5.24	-3.36/-5.53	-3.65/-5.89	-4.10/-3.55	-7.62/-6.59	-3.87/-7.98	-5.78/-7.29	-12.62/-6.65	-1.27/-4.19	-0.61/-1.47
Θ(105°)	-5.21/-8.92	-0.48/-0.04	-1.07/-3.98	-5.64/-0.99	-3.44/-2.77	0.28/-2.66	-4.23/-2.08	-2.53/-3.35	-1.57/-1.67	-2.15/-6.85	-9.13/-6.28	-0.35/-1.60	-4.92/-1.54	-4.06/-7.70	-5.11/-7.62	-6.62/-8.57	-5.47/-6.49	-4.37/-6.83	-10.86/-7.63	-5.25/-11.07	-11.73/-7.22	-8.62/-7.09	-1.28/-3.35	-2.88/-7.34
Θ(112.5°)	-12.24/-9.48	-0.98/-2.18	-4.38/-8.00	-7.29/-2.30	-6.02/-5.26	-0.85/-5.23	-5.36/-2.35	-1.59/-1.85	-2.15/-2.57	-6.89/-10.48	-11.65/-4.33	-1.88/-1.40	-0.05/-3.14	-6.20/-7.65	-7.30/-7.80	-10.79/-15.21	-12.04/-11.83	-5.51/-2.22	-8.53/-8.17	-5.07/-9.05	-8.43/-11.57	-10.64/-14.40	-3.12/-6.13	-5.24/-7.99
Θ(120°)	-12.05/-10.00	-4.44/-4.94	-7.51/-10.40	-5.06/-3.54	-8.28/-4.08	-4.13/-4.30	-4.07/-2.55	-3.90/-3.12	-3.17/-4.50	-13.51/-15.41	-12.77/-3.56	-6.11/-8.54	-4.48/-4.29	-9.82/-6.90	-8.13/-9.82	-11.88/-14.12	-11.81/-15.58	-9.54/-11.33	-10.92/-10.18	-8.05/-9.68	-12.72/-13.07	-15.30/-10.44	-7.30/-6.37	-6.05/-13.37
Θ(127.5°)	-13.53/-10.21	-6.62/-6.40	-4.71/-9.19	-4.91/-7.43	-6.84/-6.48	-7.30/-8.13	-7.93/-6.16	-4.81/-6.56	-10.03/-12.95	-13.99/-14.75	-7.44/-4.24	-5.13/-7.73	-8.18/-5.07	-6.24/-11.23	-11.30/-14.96	-7.30/-12.25	-10.55/-15.58	-11.54/-9.49	-8.67/-13.41	-6.51/-6.15	-15.38/-7.11	-11.16/-12.09	-11.36/-5.89	-10.07/-13.61
Θ(135°)	-14.53/-14.40	-9.24/-7.62	-8.82/-6.01	-11.90/-9.19	-8.12/-10.35	-14.48/-9.52	-9.09/-11.21	-5.79/-10.58	-12.91/-12.00	-12.32/-11.23	-5.92/-6.99	-8.52/-8.60	-9.23/-8.66	-8.04/-8.87	-13.32/-15.83	-9.39/-8.23	-15.47/-15.18	-11.05/-11.21	-12.31/-11.86	-10.24/-6.73	-13.31/-13.39	-13.63/-11.91	-12.54/-10.03	-12.89/-15.18
Θ(142.5°)	-15.38/-15.63	-11.01/-10.39	-13.60/-9.49	-6.89/-10.46	-7.03/-7.95	-12.81/-9.26	-10.98/-11.87	-6.41/-6.55	-13.00/-14.90	-10.04/-5.94	-6.21/-7.46	-6.90/-9.58	-10.67/-10.93	-6.90/-8.34	-8.79/-14.05	-10.65/-11.16	-15.37/-11.92	-15.22/-14.74	-11.37/-7.26	-14.71/-11.48	-8.91/-15.94	-15.68/-12.20	-11.19/-15.19	
Θ(150°)	-15.69/-11.11	-12.07/-10.01	-9.98/-9.84	-11.83/-6.17	-3.11/-10.48	-6.84/-7.01	-8.82/-8.01	-8.29/-5.71	-7.83/-10.80	-10.13/-7.41	-6.12/-7.03	-9.03/-13.08	-12.66/-9.30	-11.82/-9.13	-9.87/-10.76	-10.67/-15.01	-14.07/-13.56	-14.16/-14.23	-15.57/-9.58	-12.26/-11.32	-11.58/-15.04	-14.17/-13.33	-14.05/-14.16	-14.30/-13.72
Θ(157.5°)	-10.90/-15.41	-14.72/-15.40	-12.71/-10.20	-9.21/-9.84	-11.71/-8.82	-6.35/-9.62	-10.36/-7.13	-9.37/-6.96	-5.73/-7.21	-7.46/-7.84	-7.66/-6.86	-9.60/-10.30	-12.48/-13.13	-10.84/-10.91	-11.92/-15.53	-14.26/-13.06	-10.47/-11.96	-13.20/-12.88	-15.62/-15.59	-15.42/-12.37	-9.60/-14.27	-15.58/-14.97	-13.38/-12.53	
Θ(165°)	-11.92/-10.13	-11.14/-11.29	-11.11/-12.39	-13.52/-14.63	-12.39/-12.79	-15.02/-12.27	-12.36/-12.12	-10.89/-9.51	-8.48/-8.44	-9.42/-10.69	-12.28/-10.79	-10.83/-14.94	-14.34/-14.73	-14.34/-12.90	-11.75/-13.24	-13.40/-12.26	-12.30/-14.43	-15.42/-11.98	-10.37/-11.06	-14.14/-15.38	-15.48/-13.22	-13.35/-16.12	-12.42/-9.99	-9.93/-12.01
Θ(172.5°)	-14.53/-13.65	-13.71/-13.65	-13.70/-12.76	-12.89/-11.95	-11.35/-11.83	-13.55/-14.52	-15.16/-15.87	-13.50/-13.20	-14.71/-14.23	-14.69/-14.45	-15.78/-16.16	-15.51/-15.24	-15.26/-14.17	-11.30/-11.78	-13.59/-13.37	-13.27/-12.19	-12.57/-12.71	-13.18/-13.93	-16.08/-15.38	-15.00/-15.34	-15.07/-15.52	-15.38/-14.95	-15.25/-14.96	-13.68/-14.68
Θ(180°)	-13.92/-13.71	-14.46/-14.99	-15.15/-13.82	-12.68/-13.37	-12.88/-11.90	-12.24/-11.48	-13.30/-13.17	-12.13/-12.03	-10.84/-10.27	-10.60/-11.98	-12.22/-12.07	-11.87/-13.74	-12.53/-11.71	-11.56/-11.86	-13.20/-13.66	-13.32/-13.87	-15.40/-15.33	-14.90/-15.25	-14.42/-14.61	-14.89/-15.30	-15.14/-15.28	-15.17/-14.64	-15.72/-14.19	-13.26/-14.56
Freq(Hz)	2.45GPol.	TotalAnt.	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-2.97/-3.18	-3.64/-4.09	-4.24/-4.35	-4.38/-4.33	-4.41/-4.59	-4.71/-4.74	-4.59/-4.41	-4.24/-4.12	-4.06/-3.99	-3.97/-4.09	-4.27/-4.35	-4.46/-4.42	-4.33/-4.31	-4.35/-4.42	-4.37/-4.34	-4.51/-4.78	-4.76/-4.63	-4.43/-4.26	-4.10/-3.92	-3.65/-3.34	-3.17/-3.07	-3.06/-3.11	-3.05/-2.94	
Θ(7.5°)	-4.22/-4.19	-4.26/-4.42	-4.61/-4.85	-5.03/-5.04	-4.94/-4.80	-4.55/-4.29	-3.95/-3.70	-3.35/-3.47	-3.34/-3.18	-3.01/-3.00	-3.06/-3.11	-3.22/-3.37	-3.73/-3.67	-3.58/-3.64	-3.78/-3.93	-4.07/-4.25	-4.47/-4.80	-4.79/-4.70	-4.42/-4.12	-3.69/-3.71	-3.65/-3.55	-3.48/-3.48	-3.69/-3.98	-4.71/-4.26
Θ(15°)	-4.54/-4.30	-3.97/-3.81	-3.98/-4.52	-5.27/-6.05	-6.39/-6.15	-5.46/-4.70	-4.03/-3.57	-3.29/-3.05	-2.71/-2.35	-2.09/-2.03	-2.11/-2.18	-2.46/-3.04	-3.50/-3.69	-3.72/-3.76	-3.94/-4.18	-4.42/-4.70	-5.05/-5.06	-4.99/-4.46	-3.79/-3.23	-2.77/-2.59	-2.62/-2.71	-2.78/-2.92	-3.28/-3.75	-4.16/-4.44
Θ(22.5°)	-3.91/-0.45	-3.93/-3.90	-4.22/-5.00	-6.24/-7.53	-8.11/-7.55	-6.50/-5.52	-4.85/-4.57	-4.48/-4.24	-3.70/-3.14	-2.77/-2.61	-2.60/-2.69	-3.03/-3.53	-4.02/-4.41	-4.57/-4.47	-4.40/-4.49	-4.84/-5.42	-6.28/-6.65	-6.33/-4.93	-3.57/-2.74	-2.23/-2.78	-1.94/-1.87	-1.76/-1.74	-1.59/-2.28	-2.74/-3.34
Θ(30°)	-1.28/-3.17	-4.26/-5.27	-6.40/-7.70	-8.60/-8.24	-6.68/-5.28	-4.49/-3.98	-3.86/-4.20	-4.71/-4.87	-4.61/-4.40	-4.36/-4.35	-4.11/-3.84	-3.58/-4.39	-3.86/-4.01	-4.42/-4.60	-4.41/-4.16	-4.22/-4.80	-6.02/-7.32	-7.43/-5.68	-3.94/-2.85	-2.22/-4.10	-1.36/-0.89	-0.42/-0.06	0.03/-0.13	-0.51/-1.22
Θ(37.5°)	0.12/-1.16	-3.05/-5.36	-8.06/-9.84	-8.47/-6.10	-4.05/-2.64	-1.76/-1.24	-1.08/-1.46	-2.09/-2.54	-2.81/-3.35	-4.22/-4.66	-4.12/-3.36	-2.78/-2.31	-1.86/-1.71	-2.12/-2.87	-3.52/-3.51	-3.25/-3.48	-4.39/-5.46	-5.69/-4.97	-3.46/-2.31	-1.63/-1.17	-0.61/-0.02	0.59/1.15	1.48/1.53	1.35/0.88
Θ(45°)	1.56/0.51	-1.38/-3.78	-6.14/-7.65	-6.42/-4.02	-2.10/-0.74	0.22/0.95	1.22/0.80	-0.04/-0.56	-0.72/-1.16	-2.04/-2.32	-1.49/-0.72	-0.73/-0.91	-0.41/0.33	0.34/0.52	-1.84/-2.62	-2.43/-2.22	-2.56/-3.18	-3.74/-3.57	-2.44/-1.04	-0.23/-0.01	0.09/0.30	0.63/-1.12	1.61/-1.93	2.10/2.01
Θ(52.5°)	2.05/1.00	-0.77/-2.83	-4.81/-5.81	-5.10/-3.14	1.18/0.35	1.46/2.24	2.47/1.95	0.90/0.36	0.57/0.49	-0.10/-1.18	0.87/1.53	1.06/0.03	0.23/1.25	-1.59/-2.00	-2.61/-2.86	-1.85/-0.19	-0.59/-2.00	-2.61/-2.86	-1.85/-0.19	0.23/0.35	-0.08/-0.22	-0.17/0.16	0.79/1.37	1.95/2.25
Θ(60°)	2.17/1.10	-0.75/-2.69	-3.98/-4.27	-3.79/-2.45	-0.66/0.93	2.01/2.66	2.86/2.49	1.58/1.05	1.29/1.23	0.47/0.07	1.18/2.19	1.85/0.45	0.11/1.22	1.88/1.30	-0.04/-1.26	-1.66/-1.34	-0.98/-0.99	-1.42/-2.07	-1.42/0.24	0.89/0.12	-0.95/-1.39	-1.28/-0.85	-0.08/0.83	1.71/2.30
Θ(67.5°)	1.69/0.72	-0.84/-2.29	-2.89/-2.97	-2.96/-2.26	-0.70/0.93	1.95/2.41	2.59/2.61	2.15/1.51	1.13/0.54	-0.55/-1.19	0.21/1.59	1.29/-0.16	-0.22/1.14	1.71/1.02	-0.40/-1.69	-2.26/-1.68	-0.97/-0.67	-1.00/-1.76	-0.98/0.70	1.04/-0.15	-1.68/-2.42	-2.37/-1.75	-0.71/0.42	1.33/1.83
Θ(75°)	1.07/0.50	-0.54/-1.61	-2.26/-2.67	-2.99/-2.66	-1.40/0.17	1.20/1.53	1.65/2.00	1.98/1.29	0.28/-0.91	-2.10/-3.23	-2.07/0.04	0.18/-1.16	-1.15/0.31	1.01/0.56	-0.59/-1.97	-3.49/-3.04	-1.73/-0.94	-0.93/-1.72	-1.39/0.20	0.39/-1.06	-2.62/-3.27	-3.16/-2.46	-1.24/0.01	0.78/1.16
Θ(82.5°)	0.25/-0.41	-1.26/-2.04	-2.56/-2.93	-3.10/-3.03	-2.35/-1.01	0.07/0.41	0.95/1.17	1.43/0.85	-0.47/-2.23	-3.51/-5.26	-4.59/-1.75	-1.33/-2.74	-2.72/-1.31	-0.64/-0.75	-1.07/-1.93	-3.70/-4.11	-3.06/-2.33	-2.10/-2.63	-1.99/-0.32	-0.44/-2.61	-4.63/-6.01	-4.48/-3.48	-2.05/-0.65	0.07/0.28
Θ(90°)	-1.53/-2.00	-2.78/-2.97	-2.93/-2.35	-3.85/-4.85	-5.10/-2.98	-1.05/-0.46	-0.30/0.56	1.04/0.40	-1.22/-3.49	-4.95/-6.91	-7.65/-6.37	-2.42/-3.86	-4.42/-3.60	-3.07/-3.15	-2.65/-3.20	-3.65/-4.72	-4.17/-3.46	-3.02/-3.77	-3.56/-1.60	-1.38/-3.45	-5.56/-6.11	-5.67/-4.82	-3.54/-1.98	-1.44/-1.46
Θ(97.5°)	-2.50/-2.12	-2.39/-2.66	-2.93/-3.65	-4.85/-6.61	-6.59/-3.29	-1.22/-0.93	-0.98/-0.28	-0.33/-1.38	-3.06/-5.16	-5.97/-7.12	-6.31/-2.71	-2.08/-4.09	-5.09/-4.86	-5.40/-4.84	-4.64/-3.31	-4.28/-5.34	-5.25/-4.71	-4.15/-4.88	-4.96/-3.12	-3.19/-5.52	-6.95/-6.70	-5.73/-4.91	-3.99/-2.68	-2.51/-2.81
Θ(105°)	-3.05/-2.79	-3.82/-3.26	-3.97/-4.84	-5.91/-7.44	-6.36/-2.97	-1.50/-2.09	-0.32/-0.75	-2.83/-3.32	-3.76/-4.41	-4.25/-5.19	-5.78/-3.33	-2.89/-4.44	-4.45/-4.08	-4.93/-7.89	-7.34/-5.28	-5.62/-6.20	-5.62/-5.12	-5.27/-6.81	-8.02/-5.61	-5.08/-7.39	-8.49/-7.28	-5.92/-5.26	-5.09/-3.93	-3.37/-3.42
Θ(112.5°)	-3.31/-3.89	-3.93/-3.98	-4.85/-5.97	-6.44/-6.28	-4.59/-2.88	-2.98/-4.91																		