



Radiated Composite Gain Data of Scan Radio and BLE

Appendix D

Θ(67.5°)	-7.96/-7.61	-8.94/-11.35	-14.03/-16.22	-17.63/-13.03	-9.91/9.58	-18.12/-10.71	-7.13/-7.76	-9.11/-7.12	-5.05/4.46	-7.6/-10.66	-8.46/-6.29	-6.19/-6.62	-5.17/-3.15	-3.95/-6.71	-15.47/-17.33	-10.63/-15.02	-7.71/-11.69	-18.29/-10.39	-6.74/-8.08	-18.57/-7.02	-5.11/-5.04	-4.76/-4.13	-3.32/-4.25	-6.53/-10.1
Θ(75°)	-8.79/-12.82	-14.18/-17.07	-19.17/-17.11	-18.37/-16.71	-11.13/-10.62	-19.01/-12	-7.35/-6.3	-9.99/-10.24	-8.78/-6.01	-9.27/-13.86	-12.6/-10.76	-9.08/-9.42	-10.85/-5.85	-4.63/-5.97	-17.45/-18.38	-9.68/-12.94	-6.01/-11.97	-11.96/-13.81	-12.96/-16.51	-18.32/-11.11	-7.58/-6.9	-9.18/-4.97	-5.6/-7.91	-7.9/-11.86
Θ(82.5°)	-16.28/-17.17	-14.06/-14.65	-14.92/-14.24	-16.86/-12.52	-8.9/-11.33	-17.68/-10.6	-8.57/-9.43	-10.8/-9.75	-10.12/-7.51	-12.75/-14.34	-12.99/-19.62	-18.85/-10.26	-10.04/-6.7	-7.17/-7.34	-15.41/-16.85	-15.61/-17.03	-6.54/-9.53	-18.39/-9.32	-17.62/-17.51	-13.37/-18.83	-8.05/-11.82	-9.11/-6.97	-7.3/-9.69	-11.51/-17.11
Θ(90°)	-18.39/-18.34	-16.66/-14.19	-12.03/-11.97	-15.4/-12.92	-9.65/-10.22	-17.99/-11.78	-11.6/-10.3	-12.96/-10.41	-9.98/-8.77	-12.24/-12.59	-9.97/-14.29	-15.72/-11.67	-16.37/-8.87	-8.38/-8.74	-14.33/-13.42	-11.93/-18.08	-7.74/-16	-15.27/-17.68	-18.99/-9.54	-16.66/-13.55	-8.92/-15.66	-12.36/-10.69	-11.97/-14.86	-13.43/-17.75
Θ(97.5°)	-17.83/-17.46	-12.86/-10.33	-13.25/-13.59	-13.55/-10.18	-8.05/-11.52	-18.87/-10.89	-8.96/-11.58	-14.03/-9.45	-8.43/-9	-12.13/-16.07	-9.31/-10.6	-10.81/-9.6	-13.07/-14.72	-9.71/-8.93	-12.71/-12.6	-12.05/-16.17	-11.31/-18.91	-18.54/-12.17	-14.63/-11.57	-8.47/-15.72	-10.74/-13.27	-18.75/-11.91	-12.4/-17.83	-18.67/-16.62
Θ(105°)	-15.8/-12.71	-11.08/-12.28	-15.19/-17.56	-18.05/-12.54	-11.61/-12.11	-16.65/-13.39	-10.6/-11.01	-17.06/-12.56	-8.72/-8.66	-10.95/-11.98	-7.34/-9.76	-11.99/-10.1	-12.68/-10.15	-13.75/-11.22	-9.98/-11.36	-14.83/-14.19	-14.4/-18	-15.06/-13.89	-10.81/-5.73	-18.5/-10.42	-15.06/-18.74	-18.09/-18.27	-18.41/-17.2	-18.58/-13.33
Θ(112.5°)	-11.11/-15.45	-11.48/-10.83	-13.94/-18.86	-13.9/-10.48	-10.61/-14.2	-19.31/-10.22	-10.41/-13.9	-17.16/-11.74	-9.14/-6.99	-9.7/-13.02	-9.63/-7.97	-8.49/-11.8	-9.59/-12.87	-11.15/-13.39	-14.4/-19.26	-11.87/-17	-12.15/-16.05	-17.99/-8.94	-12.71/-11.77	-8.28/-17.85	-12.92/-17.89	-17.78/-18.23	-18.38/-12.09	-14.47/-12.57
Θ(120°)	-11.88/-13.18	-14.5/-13.2	-16.55/-14.05	-10.6/-8.01	-11.51/-18.42	-18/-15.01	-11.78/-12.93	-15.8/-12.31	-10.17/-7.86	-10.44/-11.07	-12.56/-11	-8.79/-10.43	-11.16/-12.7	-14.22/-13.22	-17.31/-18.66	-10.82/-18.54	-11.29/-18.28	-17.6/-13.47	-12.13/-13.7	-18.21/-15.15	-17.99/-14.54	-14.61/-17.68	-18.55/-12.95	-8.2/-10.63
Θ(127.5°)	-19.18/-15.04	-13.3/-13.71	-12.97/-12.31	-8.67/-8.67	-11.45/-19.33	-14.07/-10.46	-10.84/-15.39	-17.7/-14.75	-10.44/-9.09	-11.41/-11.53	-9.69/-12.8	-14.35/-10.55	-10.1/-16.5	-18.3/-18.27	-12.33/-18.16	-12.12/-17.05	-19.46/-10.92	-7.2/-18.78	-6.41/-11.11	-15.43/-16.38	-17.62/-11.43	-18.28/-18.07	-9.2/-13.68	-11.99/-14.3
Θ(135°)	-14.97/-16.51	-13.3/-10.81	-8.92/-7.13	-7.69/-7.9	-12.48/-18.14	-13.56/-12.14	-13.73/-13.93	-15.81/-18.88	-10.64/-6.4	-9.41/-12.54	-14.13/-15.54	-11.28/-12.54	-17.89/-16.36	-13.11/-16.79	-17.95/-18.48	-10.09/-12.02	-16.98/-8.68	-7.97/-9.95	-17.93/-18.53	-11.39/-12.93	-17.2/-10.5	-14.4/-16.31	-9.68/-11.02	-8.58/-12.89
Θ(142.5°)	-7.68/-8.16	-8.03/-9.96	-9.81/-9.59	-9.64/-13.64	-18.82/-19.16	-14.37/-13.19	-15.54/-14.56	-13.73/-18.73	-17.66/-10.53	-7.48/-8.41	-10.36/-15.25	-19.33/-17.28	-17.96/-17.66	-18.32/-11.64	-8.76/-9.96	-13.15/-15.98	-13.94/-14.72	-16.22/-11.35	-9.69/-18.11	-12.16/-7.4	-7.84/-17.55	-14.2/-10.43	-9.37/-10.23	-13.94/-11.51
Θ(150°)	-7.22/-7.06	-6.12/-6.31	-8.95/-12.56	-15.76/-17.15	-18.89/-19.19	-17.77/-11.41	-8.95/-8.92	-12.44/-19.4	-15.25/-11.65	-12.18/-12.83	-11.77/-9.3	-11.77/-9.3	-11.06/-8.62	-11.34/-9.76	-14.14/-17.63	-13.44/-10.9	-13.29/-12.78	-11.48/-11.86	-10.39/-9.44	-9.14/-10.75	-16.67/-12.18	-8.16/-7.15		
Θ(157.5°)	-11.63/-15.31	-14.13/-11.35	-10.39/-10.39	-10.98/-13	-16.36/-18.91	-18.61/-16.82	-13.55/-12.66	-13.87/-14.82	-12.77/-10.67	-11.08/-10.47	-7.98/-7.41	-9.53/-12.46	-10.54/-8.73	-8.87/-11.78	-14.99/-13.03	-12.9/-16.33	-18.25/-18.78	-13.22/-14.85	-18.12/-13.37	-9.54/-8.82	-10.48/-11.06	-10.29/-10.18	-12.2/-12.92	-10.89/-11.37
Θ(165°)	-11.54/-9.29	-8.98/-9.3	-10.67/-11.39	-11.67/-11.49	-12.17/-12.21	-10.66/-10.12	-10.73/-11.98	-13.66/-16.38	-18.09/-17.05	-15.2/-11.24	-10.25/-10.61	-12.02/-13.54	-13.41/-11.89	-11.66/-12.53	-15.82/-18.69	-18.28/-18.83	-17.21/-16.01	-19.21/-19.29	-14.98/-12.24	-11.48/-12.74	-14.9/-14.32	-14.46/-12.93	-11.63/-10.63	-13.94/-11.51
Θ(172.5°)	-17.91/-16.97	-16.21/-14.06	-14.77/-14.86	-14.52/-13.25	-12.77/-13.44	-14.92/-16.06	-15.88/-16.97	-17.27/-14.13	-11.69/-11.32	-12.66/-13.46	-13.27/-12.92	-12.81/-11.89	-10.82/-10.15	-10.01/-11.06	-12.75/-14.56	-14.42/-13.87	-14.97/-17.99	-18.07/-15.36	-15.31/-13.51	-11.84/-11.59	-10.86/-10.62	-12.53/-14.77	-15.53/-16.7	-17.21/-16.5
Θ(180°)	-15.77/-14.61	-16/-16.98	-18.51/-17.42	-18.81/-17.35	-17.54/-19.01	-17.29/-18.41	-17.36/-17.06	-17.15/-17.37	-18.04/-18.78	-18.73/-18.85	-15.59/-14.54	-15.75/-15.84	-15.53/-16.81	-18.09/-18.46	-16.41/-14.74	-15.12/-15.38	-16.21/-19.27	-17.98/-18.22	-17.89/-16.4	-14.94/-15.35	-15.68/-14.43	-14.44/-14.09	-13.64/-14.51	-17.29/-17.39
Freq(Hz)	5.785GpPol	ThetaAnt.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-4.47/-3.56	-2.13/-1.17	-0.59/-0.11	0.25/0.52	1.15/-1.21	0.67/0.05	-0.27/-0.61	-1.08/-2.04	-3.62/-5.55	-7.64/-10.46	-14.26/-13.83	-10.75/-8.32	-5.88/-3.8	-2.28/-1.32	-0.85/-0.54	0.16/0.18	0.63/0.64	0.49/-0.02	-0.68/-0.75	-1.9/-3.47	-4.62/-6.51	-9.52/-11.28	-10.81/-9.97	-8.14/-6.13
Θ(7.5°)	-10.74/-8.6	-6.04/-3.88	-2.38/-1.64	-0.83/-0.28	0.33/0.9	0.89/-0.02	-0.66/-1.29	-1.66/-2.64	-4.49/-6.49	-7.62/-7.58	-7.27/-6.73	-5.54/-4.84	-4.75/-4.16	-3.13/-2.51	-2.16/-1.88	-1.01/-1.02	0.12/0.19	0.04/-0.31	-0.66/-0.9	-1.51/-2.93	-4.16/-6.4	-9.65/-13.16	-19.05/-18.3	-17.1/-13.68
Θ(15°)	-16.52/-12	-8.1/-5.53	-3.7/-2.07	-1.1/-0.4	0.23/0.96	1.13/0.85	0.15/-0.4	-0.75/-1.2	-2.55/-4.42	-6.93/-9.18	-11.17/-11.99	-12.2/-13.59	-17.38/-14.83	-18.31/-17.43	-14.57/-11.21	-8.28/-6.3	-5.06/-4.1	-3.65/-3.57	-4.27/-3.86	-3.86/-3.99	-4.62/-6.36	-8.84/-9.96	-11.03/-10.34	-12.43/-16.99
Θ(22.5°)	-5.29/-3.39	-1.96/-0.92	-0.35/-0.31	-0.38/-0.83	-0.22/0.61	0.96/0.39	-0.17/-1.18	-2.39/-3.29	-4.01/-4.79	-5.34/-6.2	-7.05/-7.1	-6.16/-5.38	-5.53/-5.53	-5.52/-6	-6.86/-6.64	-5.87/-4.55	-3.1/-2.25	-2.02/-2.02	-2.9/-4.8	-6.62/-5.88	-5.15/-5.89	-8.04/-10.29	-13.55/-13.78	-10.78/-7.65
Θ(30°)	-2.59/-1.25	-0.18/0.59	0.64/0.5	0.08/0.28	0.73/-1.25	1.21/0.88	0.73/0.55	-0.62/-2.62	-4.18/-4.93	-5.11/-3.97	-2.8/-2.5	-3.01/-3.73	-1.47/-1.14	-3.59/-3.66	-3.62/-3.79	-4.33/-4.46	-4.64/-4.55	-3.34/-3.25	-1.77/-1.88	-3.51/-3.59	-7.06/-8.58	-8.17/-6.51	-4.38/-3.37	
Θ(37.5°)	-3.59/-2.05	0.04/0.76	0.68/0.35	0.04/0.27	0.81/0.6	1.11/-1.47	1.78/-1.48	0.28/-0.73	-1.77/-2.17	-2.96/-3.05	-3.81/-5.49	-7.95/-7.95	-5.2/-3.56	-3.56/-5.27	-8.44/-15.26	-17.46/-15.81	-9.6/-5.09	-2.93/-1.53	-1.6/-0.45	-0.5/-2.42	-4.17/-5.85	-6.69/-7.04	-5.54/-4.44	-3.62/-3.4
Θ(45°)	-4.19/-0.72	0.23/0.35	0.13/0.06	-0.41/-1.21	-1.54/-0.53	1.28/2.38	2.24/-1.95	1.11/-0.22	-0.77/0.25	0.53/-0.38	-2.52/-5.51	-9.83/-5.78	-2.98/-2.21	-3.91/-6.13	-8.4/-6.55	-5.03/-6.06	-7.79/-5.86	-2.79/-2.31	-1.91/-1.43	-2.24/-1.52	-3.6/-5.51	-9.79/-8.04	-6.43/-5.96	-8.24/-8.21
Θ(52.5°)	-1.780/0.981	2.081/0.85	1.04/-0.16	-1.56/-2.55	-2.61/-2.5	-0.86/-1.41	2.62/-3.7	-1.15/-0.17	-0.76/0.25	1.55/0.82	-3.63/-1.32	-1.75/-0.59	0.81/-0.62	-1.31/-1.26	-2.69/-2.09	-1.74/-1.32	-1.19/-1.14	-0.9/-0.62	-1.31/-2.04	-1.04/-1.97	-2.86/-4.06	-13.62/-9.14	-6.71/-6.4	-8.23/-5.95
Θ(60°)	0.12/-11	2.712/0.07	1.13/-0.79	-1.52/-1.04	-0.61/-0.75	-1.69/-1.08	0.58/-1.63	1.77/0.42	-1.04/0.89	2.04/-1.16	-1.82/-3.21	0.24/-1.67	0.53/-1.5	-1.2/-0.49	-2.44/-2.87	-1.83/-3.48	-2.75/0.2	1.82/0.09	-3.11/-2.98	-3.64/-2.97	-1.26/-2.21	-8.62/-10.88	-7.88/-7.14	-6.75/-4.94
Θ(67.5°)	0.46/-2.17	1.86/-1.4	-0.31/-0.75	-1.07/-0.9	-0.82/-0.81	-0.98/-2.14	-1.76/-2.02	0.73/0.59	0.16/0.86	0.98/-0.76	-2.21/-0.23	1.46/-1.95	-0.09/-3.18	-1.9/-2.14	-3.73/-1.02	-1.84/-5.06	-3.23/-0.74	1.64/0.06	-6.32/-4.06	-3.25/-3.49	-1.38/-1.85	-7.42/-9.88	-6.78/-6.46	-6.49/-4.6
Θ(75°)	0.071/0.04	-0.28/-0.7	-1.19/-1.39	-1.05/-0.92	-0.74/-0.91	-0.38/-1.3	-2.4/-1.68	-1.68/-0.27	0.31/0.35	-0.21/-2.07	-3.77/-1.87	0.81/-1.48	-1.64/-3.79	-3.51/-5.76	-5.29/-0.98	-0.58/-2.35	-0.61/-1.08	1.35/-1.44	-3.51/-5.88	-3.39/-7.56	-2.93/-1.27	-4.56/-9	-8.18/-6.26	-5.15/-3.51
Θ(82.5°)	-0.87/0.29	-0.61/-1.41	-1.99/-2.42	-1.64/-2.31	-2.22/-1.61	-0.2/-0.95	-2.19/-2.54	-2.3/-2.08	-1.47/-0.97	-0.33/-3.21	-8.2/-2.35	-0.28/0.12	-2.52/-4.51	-5.14/-10.98	-7.26/-2.75	-2.92/-2.42	0.9/-0.87	0.39/-1.55	-0.4/-3.49	-3.14/-7.5	-4.06/-2.59	-5.23/-9.87	-9.98/-6.32	-5.27/-4.05
Θ(90°)	-2.37/-0.86	-1.66/-2.7	-2.34/-3.14	-2.85/-3.7	-4.55/-4.23	-1.79/-1.58	-3.33/-2.47	-2.25/-2.61	-2.4/-1.97	-2.25/-5.02	-9.32/-4.08	-1.58/-1.67	-7.43/-5.31	-5.93/-14.31	-8.91/-7.11	-5.9/-2.7	0.22/-1.36	-1.94/-1.04	0.84/-3.99	-5.71/-8.68	-7.81/-4.93	-7.1/-8.76	-5.16/-5.08	-6.02/-6.73
Θ(97.5°)	-3.41/-2.21	-2.64/-3.31	-4.47/-4.68	-4.17/-5.27	-6.48/-6.65	-2.79/-2.27	-3.68/-2.51	-3.14/-4.24	-3.6/-2.57	-3.12/-7.1	-12.24/-6.21	-3.55/-3.78	-7.11/-6.61	-9.79/-9.69	-12.72/-4.72	-2.82/-4.1	-5.39/-2.48	-8.02/-5.83	-7.39/-12.55	-9.92/-6.84	-9.94/-8.79	-5.54/-6.19	-1.72/-6.28	
Θ(105°)	-4.07/-3.46	-3.32/-3.76	-4/-5.01	-5.05/-5.86	-7.95/-9.8	-5.04/-2.88	-3.82/-2.9	-2.77/-4.52	-5.45/-3.73	-4.32/-9.07	-13.73/-8.85	-5.69/-6.07	-10.37/-8.18	-9.63/-10.72	-6.1/-6.25	-7.97/-7.73	-8.77/-10.32	-11.74/-8.43	-9.39/-9.88	-14.2/-18.2	-12.09/-9.37	-8.3/-16.52	-6.88/-5.8	-8.53/-7.69
Θ(112.5°)	-5.75/-5.81	-5.17/-3.01	-4/-6.8	-6.58/-8.01	-10.88/-10.58	-6.67/-5.52	-4.16/-2.74	-3.92/-7.19	-6.49/-1.57	-6.3/-10.57	-16.65/-12.92	-8.38/-10.34	-9.84/-16.76	-13.99/-11.78	-6.9/-4.04	-4.63/-6.51	-6.13/-10.85	-15.94/-12.83	-9.01/-17.85	-15.86/-18				



Radiated Composite Gain Data of Scan Radio and BLE

Appendix D

Θ (112.5°)	-10.52/-6.48	-5.83/-6.67	-6.81/-10	-15.23/-10.39	-11.78/-11.38	-18.71/-16.43	-12.22/-12.83	-13.22/-6.36	-7.08/-7.66	-7.4/-7.5	-6.28/-5.67	-6.65/-7.4	-10.04/-11.59	-16.07/-14.45	-19.31/-18.28	-13.51/-9.82	-17.79/-19.19	-18.71/-14.38	-8.17/-11.45	-12.51/-19.51	-16.74/-9.9	-17.72/-18.91	-19.17/-14.43	-11.46/-11.39
Θ (120°)	-5.97/-5.55	-5.52/-7.68	-9.42/-15.75	-13.98/-12.08	-10.83/-12.28	-13.92/-18.1	-10.76/-11.64	-15.01/-7.6	-11.13/-5.59	-5.85/-8.29	-8.59/-7.49	-6.7/-7.21	-6.29/-8.36	-12.78/-17.46	-15.24/-18.07	-17.41/-13.41	-9.52/-13.11	-16.85/-18.81	-11.36/-18.31	-13.11/-19.14	-19.21/-19.12	-12.4/-17.82	-13.22/-8.98	-10.78/-8.47
Θ (127.5°)	-7.28/-6.55	-6.73/-9.27	-12.01/-13.88	-12.53/-11.61	-13.2/-15.36	-15.58/-13.56	-15.28/-11.64	-12.23/-9.1	-11.83/-4.97	-6.4/-8.51	-8.24/-6.11	-7.04/-6.6	-7.93/-7.57	-10.19/-18.57	-16.92/-16.27	-12.77/-19.06	-14.77/-15.4	-12.79/-13.02	-10.38/-18.42	-15.65/-14.81	-12.74/-13.39	-10.83/-9.05	-9.13/-7.18	-8.93/-7.15
Θ (135°)	-8.94/-9.63	-7.35/-10.02	-10.8/-9.95	-12.32/-14.88	-16.86/-14.31	-16.55/-18.09	-18.66/-18.09	-11.95/-11.33	-14.17/-9.96	-6.83/-7.53	-9.82/-7.21	-9.57/-9.91	-10.66/-11.53	-17.94/-15.74	-18.35/-18.81	-13.03/-18.88	-18.91/-12.98	-15.18/-17.47	-13.09/-18.04	-17.51/-17.26	-18.39/-16.52	-14.19/-8.72	-8.06/-6.46	-8.28/-7.1
Θ (142.5°)	-9.71/-13.02	-10.76/-9.54	-9.45/-9.63	-10.4/-14.3	-15.59/-19.01	-17.21/-15.02	-16.24/-18.38	-15.4/-12.12	-14.41/-14.36	-8.9/-7.28	-9.49/-9.29	-10.6/-12.66	-18.86/-14.51	-18.17/-15.95	-14.84/-13.57	-17.58/-17.8	-19.06/-17.75	-18.37/-14.7	-16.69/-12.36	-9.46/-8.77	-12.37/-9.28	-19.14/-15.94	-10.66/-6.97	-8.16/-7.41
Θ (150°)	-5.51/-6.37	-7.07/-7.64	-8.51/-8.96	-8.94/-10.11	-14.63/-17.06	-18.29/-17.71	-17.36/-18.66	-17.75/-16.41	-15.53/-15.62	-10.73/-8.13	-10.59/-11.26	-9.95/-9.01	-12.58/-15.09	-15.78/-18.1	-16.63/-18.58	-18.6/-18.4	-18.02/-15.28	-10.92/-13.56	-6.66/-6.64	-7.25/-8.07	-9.63/-10.67	-9.46/-10.3	-8.84/-9.64	
Θ (157.5°)	-4.43/-4.28	-5.13/-5.62	-6.7/-7.77	-8.89/-10.1	-12.28/-18.66	-18.01/-18.77	-18.27/-14.09	-12.82/-11.6	-13.95/-18.22	-13.6/-14.75	-14.49/-12.71	-8.99/-7.72	-11.28/-18.22	-18.86/-18.51	-16.04/-18.13	-18.84/-15.81	-13.56/-10.19	-11.53/-16.45	-11.39/-10.74	-11.18/-8.12	-7.86/-7.55	-7.69/-9.46	-7.03/-6.02	-5.42/-5.38
Θ (165°)	-7.33/-7	-8.03/-8.93	-9.5/-10.21	-11.35/-14.04	-17.38/-18.79	-18.19/-17.91	-17.62/-19.07	-18.16/-18.85	-17.64/-18.78	-15.07/-12.69	-11.32/-12.42	-12.56/-11.27	-13.22/-18.54	-19.24/-16.04	-16.23/-17.94	-18.05/-18.9	-18.38/-18.02	-17.79/-12.6	-12.32/-13.27	-10.33/-9.61	-9.78/-9.04	-8.09/-8.8	-9.26/-8.78	-7.97/-7.1
Θ (172.5°)	-13.53/-13.81	-12.67/-11.17	-11.85/-13.83	-15.26/-16.02	-18.09/-18.76	-18.55/-18.04	-18.22/-16.96	-19/-18.64	-16.11/-15.27	-17.1/-18.74	-18.62/-18.66	-18.55/-15.43	-16.31/-17.89	-18.26/-18.34	-16.12/-15.78	-18.16/-16.74	-14.78/-17.03	-14.83/-13.15	-14.2/-12.76	-11.31/-12.21	-13.81/-14.28	-14.24/-14.5	-14.09/-15.02	-16.09/-13.57
Θ (180°)	-11.55/-10.08	-10.14/-10.81	-10.75/-11.34	-11.51/-10.66	-10.24/-11.05	-11.25/-11.71	-13.18/-14.59	-17.88/-18.7	-18.53/-19.02	-19.42/-15.34	-14.94/-14.54	-14.16/-14.57	-15.95/-14.6	-12.38/-12.26	-11.92/-10	-9.49/-12.18	-13.28/-14.32	-18.17/-18.4	-19.13/-17.88	-18.01/-17.41	-16.22/-14.81	-14.59/-13.12	-11.91/-11.8	-12.82/-12.3
Freq(Hz)	6.475GPol.	ThetaAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-17.67/-11.9	-8.11/-6.5	-5.19/-3.48	-2.22/-1.66	-1.42/-0.83	-0.32/-0.02	-0.150/0.3	0.13/-0.27	-1.16/-2.13	-2.84/-3.79	-5.52/-7.51	-10.6/-14.7	-17.58/-17.89	-11.49/-8.6	-6.51/-4.28	-2.81/-1.7	-0.77/-0.17	0.11/0.17	0.01/0.05	-0.28/-0.63	-1.56/-2.63	-3.89/-5.41	-7.69/-10.34	-14.66/-18.71
Θ (7.5°)	-5.55/-5.22	-4.42/-3.22	-2.12/-1.49	-0.98/-0.35	0.10/0.42	0.70/0.78	0.790/0.59	-0.16/-1.37	-2.66/-4.58	-6.83/-9.55	-11.41/-10.51	-8.5/-6.09	-4.25/-2.92	-2.1/-1.47	-0.92/-0.45	-0.73/-1.11	-1.06/-1.14	-1.31/-1.25	-0.84/-0.78	-0.54/-0.06	0.07/-0.29	-0.89/-1.51	-2.67/-3.79	-4.82/-5.48
Θ (15°)	-4.33/-3.32	-1.63/-0.17	0.50/0.36	0.260/0.26	0.180/0.09	-0.220/0.11	0.630/0.48	-0.32/-0.99	-1.79/-3.04	-4.96/-7.4	-10.32/-13.37	-16.36/-15.48	-11.57/-7.62	-6.63/-2.01	-0.71/0	0.921/0.46	1.51/0.08	0.33/-0.78	-1.78/-2.33	-2.53/-1.98	-2.07/-2.55	-3.67/-5.61	-6.96/-8.37	-8.09/-6.44
Θ (22.5°)	-7.8/-6.75	-4.91/-3.48	-2.4/-1.48	-0.57/-0.12	0.44/0	-0.83/-0.4	0.09/-0.25	0.040/0.32	-0.24/-0.58	-1.24/-2.4	-2.2/-1.39	-1.3/-1.77	-2.73/-3.8	-5.01/-7.45	-8.33/-6.51	-4.29/-3.18	-2.08/-1.46	-1.79/-2.92	-3.56/-3.54	-3.69/-5.34	-8.59/-12.91	-16.39/-18.85	-18.98/-14.88	-11.02/-8.82
Θ (30°)	-11.98/-11.28	-6.54/-5.77	-5.16/-5.6	-5.87/-8.4	-3.19/-2.13	-1.6/-0.55	0.62/0.02	0.110/0.2	0.641/1.4	1.420/44	0.411/7.4	1.761/3.1	0.310/0.2	0.270/0.1	-0.99/-2.11	-2.39/-1.98	-1.49/-1.22	-1.55/-3.22	-0.58/-0.46	-3.26/-3.69	-6.51/-13.53	-18.22/-17.94	-18.9/-9.1	-7.66/-5.1
Θ (37.5°)	-6.08/-3.72	-1.91/-1.25	-1.61/-1.34	-6.87/-8.01	-7.19/-4.59	-3.6/-3.24	-1.6/-0.5	0.671/0.65	1.321/34	1.51/-1.17	1.30/7.6	-1.15/-2.15	-2.11/-1.31	-0.3/-0.17	-1.02/-1.98	-6.27/-4.95	-5.14/-2.78	-0.95/-0.29	-0.55/-0.93	-0.45/-2.68	-10.2/-10.45	-7.98/-11.56	-13.99/-11.19	-10.92/-9
Θ (45°)	-1.01/-1.33	-1.55/-1.13	-1.33/-2.05	-2.84/-1.95	-2.52/-3.06	-2.88/-4.49	-5.23/-2.89	-0.521/0.3	2.482/29	0.950/86	1.270/16	-1.94/-1.44	-0.61/-0.14	0.8/-1.14	-3.41/-5.83	-7.79/-9.72	-12.07/-9.95	-4.58/-2.1	-1.28/0	0.78/-0.9	-9.46/-8.79	-3.47/-5.16	-9.88/-6.98	-4.46/-1.66
Θ (52.5°)	1.34/-0.04	-1.12/-2.33	-3.31/-3.2	-0.810/0.24	-0.371/-1.88	-2.66/-3	-3.37/-3.42	-2.580/0.3	3.172/-67	0.251/55	1.53/-0.11	-0.341/-0.8	0.781/33	0.951/-2.4	-1.95/-2.72	-2.44/-2.49	-4.09/-5.07	-17.70/-64	0.570/0.48	1.67/-0.76	-5.48/-9.67	-5.19/-5.62	-7.98/-3.47	-0.192/-32
Θ (60°)	1.810/5	0.47/-0.43	-1.99/-2.21	-1.17/-0.42	-0.79/-2.45	-4.42/-5.09	-3.46/-4.11	-2.24/-0.19	1.243/0.1	1.391/58	0.83/-2.01	-1.570/31	-0.51/-0.71	-0.88/-2.36	-1.17/-1.49	-0.79/-1.23	-2.96/-3.3	-0.230/0.92	-0.11/-0.98	-0.52/-0.64	-1.64/-3.5	-9.19/-3.75	-7/-4.62	0.622/-72
Θ (67.5°)	1.281/41	2.10/24	-1.89/-3.19	-3.69/-1.22	-1.06/-3.44	-6.46/-10.77	-8.43/-5.37	-1.661/26	1.652/45	1.951/63	-1.14/-3.17	-1.35/-0.67	-3.18/-3.46	-2.15/-1.45	-2.26/-1.01	0.221/-1.54	-4.15/-1.72	0.24/-0.5	-1.72/-2.48	-2.11/-6.3	0.26/-1.67	-6.43/-6.51	-6.01/-8.04	0.142/45
Θ (75°)	0.111/7.3	2.620/75	-1.27/-4.71	-3.66/-1.46	-2.29/-3.04	-5.2/-14.26	-12.8/-33	-2.91/32	2.331/66	2.032/14	-2.64/-5.42	-2.98/-1.39	-3.76/-3.87	-3.72/-5.19	-5.18/-1.81	1.6/-0.26	-0.580/0.5	0.1/-2.29	-2.53/-6.12	-2.53/-6.12	0.25/-1.23	-9.32/-4.89	-3.72/-11.97	-2.330/63
Θ (82.5°)	-0.281/15	1.990/47	-2.23/-4.82	-2.87/-0.92	-1.612/-237	-5.1/-10.46	-12.72/-7.53	-4.731/63	2.170/87	1.641/3	-4.87/-6.3	-3.91/-2.67	-5.21/-4.65	-4.98/-4.95	-1.09/-2.51	0.180/27	1.510/4	-1.233/-5.56	-5.76/-5	-2.37/-9.95	-10.9/-3.81	-10.01/-6.41	-3.47/-12.77	-3.59/-0.34
Θ (90°)	-0.70/95	1.36/-0.47	-2.52/-4.7	-3.08/-0.79	-1.08/-2.54	-5.06/-8.09	-8.88/-5.44	-8.150/8	0.87/-0.14	0.180/49	-4.55/-9.41	-7.85/-4.98	-6.32/-6.23	-4.8/-19	-17.64/-8.5	-2.76/-0.36	0.93/-1.18	-2.66/-1.95	-3.19/-4.53	-3.4/-7.91	-3.26/-6.88	-11.72/-4.77	-2.62/-11.49	-4.98/-1.21
Θ (97.5°)	-0.870/0.2	-0.05/-1.68	-3.9/-6.08	-3.4/-0.14	-0.571/-63	-5.73/-6.86	-8.73/-5.34	-7.6/-0.63	1.51/-1.89	-2.63/-0.14	-5.34/-14.76	-9.11/-6.51	-8.86/-8.13	-5.88/-13.39	-8.82/-18.14	-1.288/5	-2.43/-9.7	-4.96/-2.75	-2.82/-6.66	-5.62/-8.6	-7.29/-6.16	-8.82/-6.42	-2.77/-10.19	-5.38/-1.67
Θ (105°)	-1.52/-0.6	-1.05/-2.97	-4.3/-6.09	-4.78/-1.31	-10.8/-3.46	-7.27/-11.34	-10.06/-6.45	-6.78/-3.73	1.671/-342	-4.54/-1.85	-5.43/-18.99	-11.89/-9.65	-14.53/-14.42	-7.39/-11.25	-5.82/-11.01	-16.88/-9.57	-6.21/-9.66	-12.32/-7.24	-9.85/-11.95	-12.84/-12.79	-11.58/-7.78	-7.71/-6.08	-3.24/-12.7	-5.43/-2.45
Θ (112.5°)	-1.99/-1.71	-2.93/-4.71	-4.57/-5.12	-5.57/-2.68	-2.01/-3.78	-6.8/-12.21	-1.73/-6.91	-7.78/-8.92	-2.07/-7.04	-5.94/-2.77	-6.36/-16.62	-19.46/-11.18	-17.38/-12.06	-11.71/-15.55	-8.82/-8.22	-9.58/-7.18	-6.27/-16.74	-11.18/-8.28	-15.79/-15.52	-13.56/-17.21	-11.39/-9.1	-9.01/-4.38	-5.52/-13	-4.63/-2.92
Θ (120°)	-3.94/-3.31	-3.82/-6.76	-7.12/-5.79	-6.38/-5.06	-3.79/-3.34	-5.81/-11.7	-10.15/-8.77	-12.7/-5.98	-3.22/-6.1	-7.52/-4.98	-7.5/-0.11	-19/-13.94	-18.95/-13.74	-17.79/-16.77	-17.87/-10.89	-18.09/-11.58	-7.42/-13	-12.18/-8.73	-9.92/-14.49	-18.85/-17.48	-11.01/-14.44	-11.47/-8.73	-10.44/-14.53	-5.72/-5.26
Θ (127.5°)	-5.04/-4.13	-4.44/-6.61	-7.1/-6.31	-6.18/-6.48	-7.22/-7.91	-9.66/-11.47	-10.33/-7.58	-6.17/-5.87	-4.33/-6.34	-12.05/-8.86	-8.15/-9.66	-15.64/-15.14	-16.32/-15.58	-11.4/-13.31	-7.61/-18.7	-17.71/-10.3	-16.53/-12.11	-17.38/-12.03	-10.43/-13.82	-18.77/-17.28	-18.75/-14.38	-19.74/-14.29	-15.59/-15.01	-7.82/-7.75
Θ (135°)	-6.03/-5.53	-5.15/-5.34	-6.81/-6.92	-6.98/-7.11	-8.27/-10.28	-12.47/-12.94	-10.82/-7.52	-7.2/-10.13	-6.56/-6.37	-12.99/-17.39	-10.33/-10.88	-9.85/-14.74	-16.63/-10.45	-8.12/-10.06	-11.71/-9.76	-9.07/-11.53	-18.73/-15.7	-10.23/-9.19	-17.97/-17.33	-15.89/-18.97	-10.63/-13.08	-18/-13.61	-18.1/-17.32	-8.95/-8.93
Θ (142.5°)	-5.17/-4.87	-5.82/-6.68	-7.1/-7.72	-6.77/-8.3	-11.09/-14.55	-18.01/-17.85	-15.47/-10.06	-8.82/-14.12	-10.59/-7.89	-11.23/-14.54	-18.25/-18.15	-16.06/-15.56	-15.19/-14.18	-12/-11.79	-16.93/-17.77	-12.87/-18.19	-18.28/-16.07	-16/-12.7	-12.84/-18.99	-18.64/-11.83	-13/-12.72	-15.57/-18.5	-18.23/-15.55	-8.34/-6.95
Θ (150°)	-6.96/-5.82	-5.82/-6.22	-7.51/-9.62	-10.33/-9.38	-10.31/-13.42	-19.16/-18.44	-14.75/-14.88	-13.43/-10.88	-10.43/-13.67	-16.26/-11.47	-11.57/-12.13	-14.56/-16.31	-18.75/-17.98	-17.98/-18.9	-19.17/-14.43	-18.61/-17.1	-13.02/-15.89	-18.92/-17.89	-17.67/-16.11	-13.08/-14.07	-9.63/-10.28	-13.88/-13.48	-10.37/-12.96	-11.91/-7.75
Θ (157.5°)	-9.36/-9.88	-8.66/-9.33	-11.76/-13.54	-15.47/-18.07	-18.39/-18.03	-17.76/-16.59	-18.04/-19	-17.61/-18.8	-18.9/-17.46	-16.28/-16	-17.02/-18.77	-17.9/-18.98	-18.59/-18.24	-15.33/-14.41	-16.54/-18.74	-17.53/-13.47	-12.73/-12.53	-11.68/-10.92	-12.74/-16.69	-12.94/-12.88	-12.38/-10.94	-13.53/-15.98	-17.38/-14.36	



Radiated Composite Gain Data of Scan Radio and BLE

Appendix D

Θ(157.5°)	-5.66/-6.35	-7.76/-8.88	-9.95/-9.22	-10.11/-10.69	-10.98/-12.94	-16.04/-17.45	-17.15/-13.85	-11.07/-8.86	-7.56/-8.21	-11.87/-8.26	-4.68/-5.02	-4.66/-5.38	-5.53/-9.61	-18.83/-18.44	-17.83/-15.56	-15.55/-18.59	-19.21/-14.65	-12.67/-18.1	-18.92/-16.53	-11.23/-13.45	-11.01/-10.8	-10.81/-8.47	-10.01/-8.02	-7.89/-6.09
Θ(165°)	-6.77/-6.29	-5.79/-6.14	-6.79/-7.71	-8.28/-9.3	-10.67/-13.49	-17.92/-19.22	-13.58/-11.18	-12.29/-12.26	-10.17/-11.1	-11.82/-11.24	-13.57/-13.49	-10.12/-12.29	-15.69/-9.14	-18.72/-16.74	-14.43/-14.2	-14.11/-13.67	-14.34/-14.78	-18.02/-18.4	-18.2/-17.8	-15.68/-13.45	-12.25/-12.51	-16.86/-18.27	-15.59/-11.34	-9.46/-7.83
Θ(172.5°)	-13.82/-11.72	-10.57/-10.99	-12.13/-12.8	-12.53/-12.35	-14.41/-15.38	-15.64/-17.27	-16.84/-17.92	-18.15/-18.35	-18.36/-18.65	-17.95/-18.02	-18.96/-17.09	-14.81/-15.28	-15.98/-19.32	-19.03/-18.28	-18.73/-17.88	-18.53/-18.37	-18.15/-18.48	-17.99/-15.54	-15.71/-15.87	-16.68/-17.48	-18.31/-17.92	-17.22/-18.88	-17.81/-19.63	-17.87/-15.78
Θ(180°)	-17.95/-19.44	-18.25/-18.14	-17.77/-17.6	-18.56/-18.38	-17.9/-18.45	-18.73/-18.28	-18.06/-18.58	-18.52/-18.86	-18.85/-17.75	-18.61/-18.56	-18.49/-18.26	-18.42/-19.19	-18.15/-18.77	-17.82/-17.7	-18.07/-18.18	-18.23/-18.56	-18.16/-18.1	-18.02/-18.98	-18.29/-18.79	-18.56/-19.29	-19.16/-18.1	-18.24/-17.82	-18.45/-19.16	-18.83/-18.06
Freq(Hz)	6.995GPol.	ThetaAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-18.02/-14.55	-10.78/-7.99	-6.3/-5.73	-4.57/-3.1	-2.4/-2.24	-1.97/-1.35	-1.09/-1.73	-2.58/-2.32	-2.46/-3.23	-4.44/-5.64	-7.31/-9.55	-11.25/-13.06	-13.4/-12.03	-10.69/-8.18	-5.67/-4.65	-4.68/-3.42	-2.21/-2.29	-2.65/-2.43	-2.22/-2.27	-2.53/-2.88	-3.67/-4.46	-5.68/-7.71	-9.56/-12.21	-17.82/-18.18
Θ(7.5°)	-5.2/-4.77	-4.79/-3.91	-3.33/-3.21	-2.93/-2.26	-2.29/-2.29	-2.5/-2.28	-2.07/-2.56	-2.38/-2.53	-3.75/-4.66	-5.98/-7.68	-9.47/-10.63	-9.4/-7.46	-5.84/-4.55	-3.42/-2.68	-2.35/-2.43	-2.23/-2.02	-1.77/-1.66	-1.82/-1.88	-2.09/-1.92	-1.54/-1.89	-2.55/-3.14	-4.13/-5.34	-6.15/-6.16	-6.66/-6.17
Θ(15°)	-7.04/-5.63	-4.85/-5.05	-5.43/-4.97	-4.89/-4.28	-3.48/-2.62	-2.77/-2.88	-2.39/-2.2	-2.7/-2.76	-2.57/-2.5	-2.92/-3.51	-4.63/-5.74	-6.3/-6.18	-5.72/-4.15	-2.48/-1.4	-0.63/-0.03	0.74/-0.2	0.25/-0.94	-1.52/-2.8	-4.14/-1.8	-3.96/-4.45	-5.15/-6.55	-8.33/-9.95	-11.84/-12.44	-11.51/-9.72
Θ(22.5°)	-10.31/-7.34	-6.04/-5.17	-4.59/-6.47	-5.88/-7.6	-7.46/-4.5	-2.37/-1.21	-0.39/-0.04	-0.54/-1.19	-1.13/-0.94	-1.21/-2.53	-5.46/-7.41	-7.01/-7.61	-8.21/-4.4	-6.77/-6.1	-4.52/-2.94	-1.63/-1.72	-2.6/-3.43	-3.57/-4.38	-5.03/-5.06	-5.57/-6.51	-8.59/-9.47	-11.18/-14.77	-18.95/-18.35	-18.51/-15.03
Θ(30°)	-3.77/-2.86	-2.82/-2.89	-3.24/-3.14	-2.72/-1.87	-1.58/-2.62	-2.14/-0.59	0.61/-1.84	2.61/-6.29	1.89/-4.3	-0.47/-2.09	-5.26/-4.15	-1.64/-1.02	-2.04/-3.85	-4.59/-3.65	-3.56/-3.64	-2.56/-1.12	-1.25/-2.08	-3.57/-4.91	-5.13/-4.93	-5.22/-5.9	-5.4/-5.66	-9.06/-12.32	-16.6/-17.99	-11.19/-6.23
Θ(37.5°)	0.28/0.5	-0.28/-3.05	-5.64/-5.33	-2.11/0.3	1.24/-1.04	0.28/-0.73	0.33/-0.58	0.58/-1.78	0.88/-1.28	-2.08/-2.29	-2.25/-0.67	-1.46/-2.72	-2.95/-2.67	-2.71/-1.99	-2.59/-3.09	-4.55/-8.11	-8.26/-5.4	-2.95/-2.49	-1.07/-1.04	0.49/-3	-3.71/-8.08	-3.71/-8.08	-5.96/-8.18	-4.11/-1.75
Θ(45°)	0.7/0.03	-0.85/-1.91	-2.75/-1.88	-1.75/-1.45	-0.49/-0.3	-0.08/0.03	-0.09/-0.59	-1.16/-1.28	-0.91/-1.38	-1.59/-2.66	-3.09/-0.97	-2.07/-4.58	-1.89/-1.67	-2.76/-3.23	-4.95/-5.91	-8.34/-7.3	-5.98/-4.37	-2.66/-2.95	-1.45/-1.14	2.03/-0.99	-2.77/-0.63	-3.11/-7.84	-8.83/-3.65	-0.36/-0.33
Θ(52.5°)	-0.94/0.73	0.82/-1.84	-4.89/-3.5	-1.69/-1.27	-1.08/-0.92	-2.4/-2.51	-2.34/-3.88	-4.12/-1.95	-1.65/-1.47	-1.54/-2.81	-3.12/-1.35	-5.34/-3.95	-1.13/-2.29	-2.36/-3.23	-2.78/-5.42	-4.92/-0.86	-1.09/-0.98	0.24/-0.17	0.53/-1.7	3.32/0.87	-2.25/-5.82	-2.9/-3.89	-5.44/-2.2	-0.83/-1.09
Θ(60°)	0.452/3.4	0.8/-3.7	-5.14/-1.65	-0.07/0.31	0.47/0.34	-1.5/-2.81	-2.23/-5.01	-4.05/-1.71	-0.62/-0.43	-0.17/-0.98	-3.57/-1.14	-5.28/-5.25	-0.82/-2.17	-2.94/-2.74	-4.33/-6.74	-3.01/-1.23	0.28/-1.19	0.83/0.43	0.94/0.68	2.03/-1.74	-0.66/-1.5	-3.29/-2.45	-6.36/-3.21	-2.42/-1.52
Θ(67.5°)	0.362/4.7	-0.44/-2.7	-1.11/-0.54	0.390/93	1.05/0.31	-1.16/-1.09	0.44/-0.97	-8.07/-0.97	-0.15/0.84	0.73/-0.3	-2.58/-0.93	-6.01/-4.62	-2.48/-4.64	-4.23/-3.21	-4.26/-7.14	-3.68/0.34	-1.48/-0.56	2.47/-1.06	-1.8/-1.44	0.65/-1.49	0.23/-3	-2.5/-3.51	-8.3/-3.6	-2.47/-1.88
Θ(75°)	-0.75/-1.22	-0.98/-0.93	-0.78/-0.71	-0.15/-0.03	-0.13/-1.4	-1.89/-0.82	0.54/0.14	-2.35/-4.15	1.26/0.38	-0.62/-0.32	-0.57/-3.21	-5.85/-7	-4.94/-5.31	-5.2/-4.4	-4.9/-7.73	-5.52/-0.98	-1.12/2.11	3.06/-1.48	-5.79/-4.05	-0.71/0.29	-0.07/-0.82	-1.47/-6.56	-1.05/-5.26	-3.12/-2.51
Θ(82.5°)	-2.54/-0.1	-1.08/-0.14	-0.96/-1.02	0.69/-0.99	-0.4/-0.84	-3.12/-1.81	-0.75/-0.65	-3.09/-1.86	0.85/0.3	-1.3/-0.24	-1.4/-3.89	-5.89/-8.13	-7.26/-5.34	-6.39/-6.91	-2.51/-1.91	1.35/2.7	-6.08/-3.12	-0.34/-1.62	-2.04/-0.88	-2.46/-7.84	-1.75/-8.99	-4.46/-4.09	-4.64/-4.09	-4.64/-4.09
Θ(90°)	-3.2/-0.95	-1.52/-1	-1.52/-2.24	-1.83/-1.56	-0.93/-0.85	-3.33/-1.04	0.91/0.4	-3.9/-1.81	-1.62/-0.82	-3.63/-1.04	-2.52/-5.1	-6.96/-8.71	-8.45/-5.64	-6.48/-12.15	-17.11/-7.78	-6.88/-1.74	1.68/-1.79	0.26/-3.2	-3.63/-1.48	-0.31/-3.94	-4.3/-2.94	-5.02/-13.83	-19.34/-13.97	-5.32/-5.02
Θ(97.5°)	-3.52/-2.06	-1.86/-1.98	-3.19/-5.27	-3.02/-2.3	-2.53/-1.22	-4.15/-1.72	-0.29/-1.08	-2.75/-4.39	-1.54/-2.09	-5.32/-2.53	-4.43/-7.48	-9.81/-12.64	-8.91/-7.48	-5.52/-12.53	-19.26/-7.94	-16.44/-7.33	-1.44/-8.85	-5.16/-6.75	-5.08/-3.4	-3.95/-8.87	-6.58/-6.57	-9.16/-18.93	-15.57/-15.4	-8.46/-8.25
Θ(105°)	4.24/-4.17	-4.36/-3.71	-5.44/-5.9	-3.52/-3.63	-3.23/-2.86	-3.84/-0.9	-2.21/-1.46	-3.39/-5.63	-3.34/-9.5	-6.72/-5.16	-7.46/-5.94	-11.49/-8.92	-11.49/-8.92	-11.49/-8.92	-12.32/-17.35	-18.02/-19	-8.4/-19.34	-13.33/-17.46	-9.88/-12.29	-9.55/-14.29	-7.85/-14.6	-12.24/-15.71	-17.38/-11.19	-9.74/-9.74
Θ(112.5°)	-5.04/-4.61	-5.11/-4.5	-7.17/-7.85	-5.64/-2.39	-2.2/-5.59	-4.74/-3.54	-3.47/-1.65	-3.57/-6.83	-4.04/-5.7	-13.3/-6.63	-5.73/-12.89	-14.73/-12.88	-19.3/-18.09	-8.09/-6.8	-12.83/-12.66	-11.32/-11.2	-8.11/-10.4	-10.23/-15.22	-15.38/-14.22	-12.89/-13.83	-7.11/-10.01	-10/-15.03	-17.55/-11.05	-10.99/-9.82
Θ(120°)	-4.86/-5.28	-8.07/-4.56	-7.43/-8.5	-5.17/-2.83	-2.75/-5.08	-7.87/-6.3	-4.63/-3.52	-2.66/-3.36	-9.11/-6.54	-14.21/-8.86	-7.16/-17.87	-14.37/-15.92	-17.51/-19.05	-16.08/-17.65	-15.15/-13.79	-6.41/-11.41	-11.21/-9.12	-14.05/-7.65	-12.97/-19.32	-13.39/-6.98	-12.46/-18.12	-13.15/-11.87	-10.98/-6.15	-10.98/-6.15
Θ(127.5°)	-8.22/-8.56	-8.87/-9.56	-9.21/-6.58	-5.41/-7.37	-3/-6.37	-12.21/-12.36	-9.81/-4.88	-3.33/-6.15	-11.41/-9.94	-9.98/-17.01	-12.84/-14.75	-12.83/-18.08	-15.61/-19.06	-15.6/-18.69	-7.07/-15.04	-15.4/-19.25	-17.33/-14.76	-12.74/-16.77	-19.33/-11.78	-12.96/-12.59	-12.46/-18.97	-15.12/-14.11	-10.57/-8.42	-10.57/-8.42
Θ(135°)	-8.99/-9.19	-11.8/-9.77	-7.86/-5.54	-3.36/-3.98	-5.5/-7.34	-9.44/-10.58	-8.74/-5.38	-4.25/-5.44	-11.8/-8.78	-6.9/-12.42	-19.07/-11.64	-17.05/-19.02	-17.81/-16.97	-9.56/-7.34	-8.52/-12.35	-11.21/-10.1	-16.27/-16.15	-8.71/-7.84	-14.85/-12.57	-11.28/-9.57	-18.92/-16.46	-11.76/-17.56	-12.15/-13.29	-10.37/-9.22
Θ(142.5°)	-7.98/-11.04	-11.73/-9.56	-6.62/-6.45	-6.72/-7.15	-10.36/-12.8	-12.04/-11.34	-10.99/-6.4	-3.39/-3.06	-7.23/-10.96	-10.1/-13.2	-13.88/-14.14	-16.19/-18.94	-13.7/-10.43	-10.83/-9.45	-10.41/-16.08	-10.57/-11.75	-8.52/-9.27	-9.52/-16.35	-14.95/-18.47	-1.96/-11.47	-11.42/-12.47	-18.66/-15.34	-14.62/-14.91	-11.15/-9.43
Θ(150°)	-9.35/-7.62	-7.22/-8.29	-8.84/-9.68	-9.75/-9.43	-8.92/-11.92	-16.88/-18.28	-19.02/-16	-10.41/-7.14	-7.58/-11.35	-11.71/-8.7	-11.22/-13.6	-16.82/-18.73	-19.12/-18.22	-18.63/-16.99	-14.51/-11.72	-14.95/-19.01	-18.17/-17.01	-15.77/-18.21	-17.71/-16.21	-11.72/-10.12	-7.08/-9.83	-15.58/-18.97	-18.92/-14.14	-13.64/-10.82
Θ(157.5°)	-10.15/-9.09	-7.77/-7.08	-8.31/-10.43	-14.18/-16.54	-17.27/-17.34	-18.27/-19.33	-16.59/-10.93	-8.22/-6.95	-8.93/-8.54	-12.84/-18.17	-17.98/-18.62	-16.52/-18.41	-13.53/-14.65	-19.06/-17.01	-15.45/-17.61	-18.48/-16.02	-12.33/-13.65	-15.25/-17.41	-17.24/-13.62	-14.11/-14.01	-11.11/-12.14	-12.07/-12.16	-12.85/-17.7	-16.73/-12.36
Θ(165°)	-14.7/-15.55	-16.93/-18	-18.62/-19.37	-18.01/-14.49	-14.3/-14.94	-14.95/-16.28	-17.86/-16.86	-15/-13.94	-12.47/-11.43	-11.15/-13.21	-17.55/-18.68	-17.47/-12.47	-13.58/-13.19	-11.15/-13.83	-19.32/-18.17	-17.68/-15.66	-16.31/-16.57	-16.26/-14.99	-15.56/-15.91	-15.67/-12.96	-11.9/-12.85	-12.83/-14.3	-18.34/-18.1	-14.64/-13.64
Θ(172.5°)	-14.91/-14.72	-15.53/-14.8	-14.48/-13.6	-12.49/-12.97	-14.26/-16.77	-17.23/-16.91	-16.6/-15.49	-13.62/-13.03	-14.77/-19.05	-19.27/-18.8	-18.18/-18.11	-18.15/-18.15	-16.29/-13.52	-14.29/-16.52	-17.92/-17.97	-19.74/-17.26	-17.71/-18.04	-17.82/-17.92	-16.71/-17.62	-18.69/-19.23	-18.89/-18	-15.94/-14.36	-13.69/-13.49	-15.22/-15.5
Θ(180°)	-18.27/-18.79	-18.73/-19.17	-18.71/-17.37	-19.21/-19.2	-18.59/-18.72	-17.92/-18.3	-18.27/-18.52	-19.32/-18.93	-19.24/-17.55	-15.99/-14.55	-14.8/-15.02	-16.43/-18.83	-15.97/-14.79	-14.16/-17.63	-18.51/-18.5	-17.82/-18.44	-18.38/-18.35	-18.96/-19.36	-18.74/-18.32	-18.39/-18.48	-18.67/-18.82	-18.07/-18.28	-18.47/-17.92	-18.41/-18.29
Freq(Hz)	2.45GPol.	PhiAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-12.13/-11.59	-10.51/-9.35	-8.36/-7.51	-6.74/-6.15	-5.79/-5.88	-6.18/-6.45	-6.85/-7.66	-8.62/-9.45	-10.02/-10.23	-10.15/-9.64	-9.34/-9.42	-9.73/-9.89	-9.62/-8.86	-7.71/-6.64	-6.03/-7.53	-5.54/-5.38	-5.44/-5.71	-6.05/-6.28	-6.45/-6.68	-7.09/-7.77	-8.69/-9.68	-10.78/-11.92	-12.75/-12.76	-12.46/-12.31
Θ(7.5°)	-11.19/-11.34	-11.04/-10.2																						



Radiated Composite Gain Data of Scan Radio and BLE

Appendix D

Θ(7.5°)	-7.17/-7.99	-8.24/-8.71	-10.46/-14.34	-19.27/-18.36	-16.26/-13.65	-12.72/-11.41	-10.67/-9.95	-9.33/-8.34	-7.66/-7.48	-7.39/-7.01	-8.32/-8	-7.23/-6.77	-6.45/-6.6	-6.74/-6.86	-7.45/-7.71	-9.03/-11.68	-16.4/-18.66	-18.7/-13.65	-10.54/-8.27	-6.71/-5.02	-4.24/-4.48	-4.37/-4.15	-4.02/-4.08	-4.83/-6.11
Θ(15°)	-1.89/-2.27	-2.66/-3.16	-4.62/-6.7	-13.1/-17.91	-18.4/-14.19	-12.63/-10.78	-9.9/-9.6	-10.04/-10.77	-11.93/-12.44	-12.36/-12.81	-11.56/-11.31	-11.38/-10.16	-8.65/-8.82	-8.51/-8.1	-8.2/-8.25	-8.69/-11.58	-16.51/-19.01	-18.62/-12.98	-10.68/-9.13	-7.8/-7.03	-6.04/-5.29	-4.73/-6.1	-2.21/-1.64	-1.15/-1.28
Θ(22.5°)	-3.01/-4.3	-4.34/-3.68	-3.72/-5.54	-8.79/-13.5	-17.63/-17.52	-15.64/-12.37	-9.99/-10.14	-11.82/-12.32	-8.78/-5.86	-4.58/-3.99	-4.12/-4.58	-7.73/-5.02	-5.4/-6.2	-7.44/-7.62	-7.77/-8.44	-10.3/-15.47	-12.25/-10.13	-8.15/-6.22	-5.61/-5.8	-6.04/-5.68	-4.39/-3.02	-1.77/-1.13	-0.94/-1.6	
Θ(30°)	-4.18/-6.76	-8.44/-7.91	-6.86/-6.86	-7.53/-8.92	-11.42/-13.19	-12.44/-9.62	-7.3/-6.55	-5.82/-3.87	-2.39/-2.39	-3.46/-5.45	-6.76/-7.61	-8.18/-7.73	-6.5/-6.44	-9.02/-12.81	-13.04/-13.32	-12/-12.04	-15.48/-18.99	-12.53/-8.45	-5.28/-3.06	-2.32/-2.71	-4.4/-5.37	-5.72/-4.69	-3.84/-2.7	-2.18/-2.63
Θ(37.5°)	-2.77/-2.74	-3.25/-4.41	-6.06/-6.51	-5.84/-5.65	-7.74/-10.99	-12.08/-10.03	-7.01/-5.18	-4.23/-2.62	-1.73/-2.78	-6.05/-7.7	-5.24/-5.23	-5.45/-5.81	-5.75/-5.74	-7.7/-10.05	-9.95/-11.39	-17.85/-18.96	-18.45/-13.01	-7.3/-4.7	-3.97/-4.21	-5/-5.18	-5.7/-5.12	-4.54/-5.04	-5.8/-4.85	-3.27/-2.57
Θ(45°)	-1.71/-1.76	-2.27/-2.76	-3.2/-3.83	-4.5/-5.07	-7.07/-9.97	-11.26/-9.65	-7.5/-5.99	-5.45/-4.78	-3.38/-4.1	-6.44/-6.89	-4.52/-3.94	-3.4/-1.85	-3.34/-4.59	-3.21/-3.55	-4.48/-3.48	-12.54/-12.51	-13.05/-7.3	-5.17/-3.97	-3.91/-4.1	-5.29/-4.38	-2.93/-2.53	-2.32/-2.56	-3.22/-2.42	-2.04/-2.27
Θ(52.5°)	-1.01/-1.93	-2.46/-1.45	-0.58/-2.28	-5.71/-7.03	-8.14/-8.78	-7.3/-6.63	-7.6/-8.99	-9.65/-6.82	-2.8/-2.53	-3.18/-4.9	-5.89/-5.88	-2.9/-1.4	-5.01/-5.48	-3.53/-3.5	-2.36/-1	-2.88/-8.98	-10.8/-4.52	-2.65/-2.71	-3.21/-3.89	-3.14/-2.22	-1.45/-2.52	-2.21/-6.8	-2.13/-1.69	-1.15/-0.78
Θ(60°)	-0.92/-1.77	-1.51/-3.03	-0.01/-2.59	-5.62/-4.24	-4.7/-7.65	-7.21/-5.88	-7.59/-11	-15.45/-8.94	-2.94/-0.88	-1.25/-2.93	-5/-3.84	-2.11/-1.04	-3.45/-6.27	-4.12/-3.34	-5.19/-2.54	-0.99/-2.81	-6.01/-5.19	-3.01/-3.44	-1.55/-2.05	0.520/92	-0.15/-2.26	-1.59/-1.56	-2.48/-2.04	-1.1/-0.28
Θ(67.5°)	-2.18/-2.1	-2.03/-1.32	0.48/-1.13	-5.27/-5.11	-6.01/-7.11	-5.45/-5.06	-5.66/-6.86	-14.41/-8.86	-2.84/-0.18	-0.72/-2.21	-4.17/-2.11	-0.89/-2.2	-5.01/-4.24	-3.1/-4.63	-6.2/-1.7	-1.14/-2.29	-3.48/-3.94	-2.52/-2.66	0.030/85	1.991/38	-0.44/-3.2	-1.09/-1.6	-3.43/-3.81	-2.18/-1.87
Θ(75°)	-2.66/-2.94	-3.38/-1.4	-0.08/-2.07	-4.5/-3.58	-5.81/-8.05	-5.96/-4.61	-5.03/-7.36	-11.54/-9.42	-5.6/-1.65	-2.05/-3.57	-6.63/-1.96	-1.3/-1.9	-4.98/-3.85	-4.74/-3.64	-5.77/-2.21	-1.23/-1.56	-1.47/-4.42	-2.95/-1.77	1.652/58	3.24/2.76	-0.97/-2.16	-0.75/-1.82	-3.89/-6	-2.69/-2.38
Θ(82.5°)	-4.19/-4.06	-4.1/-2.03	-1.44/-3.24	-4.9/-3.66	-4.98/-7.78	-6.51/-5.33	-5.55/-5.94	-8.41/-6.89	-7.09/-3.44	-5.47/-6.2	-8.7/-4.19	-1.87/-4.04	-6.24/-5.45	-6.05/-3.29	-4.06/-2.71	-0.85/-0.96	-0.89/-4.4	-3.19/-1.24	1.62/25	3.152/45	-1.63/-2.12	-1.47/-2.44	-3.61/-6.4	-3.22/-2.71
Θ(90°)	-4.55/-3.5	-6.76/-3.58	-2.21/-4.07	-4.51/-3.46	-4.69/-8.13	-6.96/-5.53	-5.89/-6.88	-8.89/-8.46	-9.36/-7.2	-8.05/-8.16	-11.45/-6.65	-6.39/-5.54	-6.29/-5.18	-11.11/-6.01	-4.97/-5.16	-1.43/-2.45	-1.38/-3.2	-2.93/-2.29	3.320/2	2.570/78	-3.1/2.1	-1.63/-3.29	-3.61/-7.05	-4.07/-3.05
Θ(97.5°)	-5.95/-3.25	-6.64/-5.65	-3.16/-5.1	-4.52/-3.1	-4.94/-8.93	-8.19/-7.39	-8.81/-8.64	-12.06/-11.22	-12.97/-9.03	-12.7/-7.12	-8.91/-7.32	-7.88/-12.77	-10.85/-7.05	-16.18/-9.39	-7.41/-8.27	-3.54/-4.48	-2.72/-4.05	-3.81/-4.5	-0.53/-0.02	0.74/-1.69	-5/-2.75	-3.73/-5.34	-5.43/-7.22	-4.84/-3.16
Θ(105°)	-5.22/-4.43	-8.25/-6.42	-4.35/-5.53	-4.13/-4.02	-6.95/-10.32	-8.95/-7.75	-9.33/-9.96	-13.97/-11.84	-12.83/-8.72	-7.45/-5.27	-9.78/-6.72	-10.01/-12.68	-18.79/-6.25	-10.42/-8.58	-11.09/-11.39	-5.58/-10.51	-6.21/-4.5	-4.55/-6.75	-2.73/-2.16	-0.7/-3.59	-8.47/-6.65	-4.1/-4.89	-6.07/-6.21	-5.39/-8.72
Θ(112.5°)	-7.48/-6.4	-8.33/-10.06	-5.29/-6.02	-6.03/-4.81	-7.83/-16.21	-11.86/-10.84	-14.05/-15.34	-16.16/-14.11	-11.86/-9.35	-5.79/-7.55	-9.03/-7.97	-6.18/-13.03	-11.68/-5.87	-9.97/-9.86	-8.33/-8.88	-8.78/-8.65	-7.66/-4.67	-6.93/-0.02	-2.41/-1.67	-2.19/-3.25	-13.7/-8.64	-5.73/-4.25	-3.71/-7.74	-7.87/-1.11
Θ(120°)	-7.77/-9.68	-8.58/-8.84	-6.12/-5.88	-8.28/-7.34	-7.72/-14.59	-12.88/-13.4	-17.86/-17.76	-18.14/-17.63	-18.08/-14.67	-7.62/-12.93	-15.05/-11.46	-7.81/-10.55	-8.54/-8.56	-10.9/-10.71	-6.09/-7.89	-11.56/-9.64	-11.55/-7.55	-10.1/-10.79	-3.71/-2.69	-4.38/-6.66	-13.44/-12.95	-4.55/-2.31	-7.33/-8.02	-7.45/-9.97
Θ(127.5°)	-7.15/-9.77	-18.77/-12.22	-7.1/-9.58	-10.48/-10.96	-13.43/-16.85	-16.35/-19.05	-18.51/-17.08	-18.77/-10.79	-8.78/-12.53	-14.5/-12.42	-12.72/-11.68	-13.21/-15.55	-17.96/-12.73	-13.29/-18.72	-14.55/-11.46	-17.25/-9.11	-15.1/-11.58	-12.94/-10.84	-7.97/-4.74	-8.26/-7.22	-19.1/-11.03	-4.15/-2.56	-8.7/-12.76	-8.9/-9
Θ(135°)	-7.53/-7.6	-10.84/-11.54	-7.52/-8.36	-11.13/-13.95	-18.53/-18.04	-17.71/-17.41	-17.97/-12.97	-9.57/-10.07	-8.58/-12.27	-7.75/-11.4	-13.89/-16.14	-18.54/-18.07	-14.71/-17.41	-15.45/-15.36	-11.17/-9.94	-12.43/-13.07	-14.26/-11.66	-10.37/-5.62	-7.61/-8.38	-14.53/-13.82	-9.13/-5.61	-10.05/-11.1	-6.93/-7.91	
Θ(142.5°)	-14.39/-11.94	-10.49/-9.18	-8.39/-8.07	-10.75/-13.35	-13.44/-14.06	-16.05/-15.06	-13.35/-12.14	-10.07/-9.57	-11.31/-13.28	-15.08/-14.78	-17.35/-12.54	-11.52/-13.83	-11.86/-12.44	-13.61/-17.04	-17.6/-14.9	-15.3/-16.98	-8.45/-12.67	-17.25/-14.9	-10.59/-7.87	-8.81/-9.8	-13.17/-10.7	-7.31/-6.8	-8.21/-12.43	-10.22/-10.57
Θ(150°)	-16.15/-17.74	-11.78/-8.92	-9.34/-12.38	-15.26/-19.34	-19.21/-19.26	-17.61/-18.77	-14.51/-13.43	-15.53/-17.86	-18.6/-16.54	-14.19/-14.47	-17.63/-18.51	-16.39/-15.56	-18.44/-18.5	-13.33/-17.76	-18.21/-14.21	-10.65/-17.4	-18.81/-16.5	-18.45/-18.23	-17.32/-16.92	-17.53/-11.91	-10.23/-10.24	-11.17/-13.25	-19.15/-17.94	-14.45/-13.26
Θ(157.5°)	-10.9/-9.72	-10.24/-13.09	-16.61/-18.16	-15.94/-14.35	-15.24/-18.13	-17.65/-17.8	-19.29/-18.7	-17.38/-15.49	-14.62/-16.1	-17.91/-17.39	-15.27/-13.64	-14.33/-17.66	-19.47/-15.97	-14.1/-18.38	-17.94/-18.44	-18.28/-18.39	-18.79/-17.63	-17.5/-18.9	-18.43/-18.85	-18.38/-18.92	-19.14/-19	-17.46/-17.98	-18.62/-17.46	-14.31/-12.44
Θ(165°)	-15.17/-12.92	-10.77/-9.51	-9.14/-9.74	-12.03/-17.19	-17.91/-18.77	-16.62/-15.91	-15.63/-15.94	-15.84/-15.24	-17.45/-17.84	-18.6/-17.51	-13.16/-11.2	-11.59/-12.75	-14.4/-16.55	-17.71/-18.98	-18.49/-18.93	-17.83/-18.03	-18.27/-18.81	-18.93/-17.83	-18.25/-17.56	-16.06/-16	-16.96/-15.46	-12.07/-11.31	-11.38/-13.81	-16.02/-17.02
Θ(172.5°)	-8.52/-7.95	-8.43/-9.11	-10.67/-14.47	-18.98/-17.8	-18.41/-15.68	-14.66/-15.59	-16.04/-15.82	-15.32/-13.86	-13.07/-12.73	-13/-13.94	-16.1/-17.86	-17.78/-16.35	-14.83/-14.32	-13.52/-11.78	-11.83/-13	-14.16/-15.21	-17.27/-19.52	-17.52/-17.35	-19.1/-19.2	-18.13/-18.65	-18.42/-19.05	-17.25/-13.03	-10.75/-9.84	-10.38/-9.59
Θ(180°)	-17.22/-18.16	-18.92/-18.14	-18.24/-18.56	-18.86/-18.76	-16.86/-18.71	-17.93/-18.68	-17.72/-19.23	-18.57/-18.62	-17.25/-19.28	-17.53/-18.14	-19.21/-18.86	-15.52/-12.75	-12.07/-14.82	-13.27/-13.29	-13.31/-13.96	-14.97/-17.1	-19.14/-18.3	-17.94/-19.22	-17.86/-18.01	-18.5/-17.83	-18.5/-18.17	-17.69/-17.79	-18.71/-17.28	-16.2/-17.42
Freq[Hz]	5.3GPol	PhiAnt.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-7.34/-7.35	-6.92/-5.3	-4.48/-4.51	-4.82/-5.19	-5.65/-5.59	-5.86/-6.08	-7.19/-8.03	-8.89/-9.96	-11.97/-13.88	-15.42/-12.6	-14.94/-12.74	-8.84/-6.17	-5.71/-4.93	-4.17/-4.02	-4.4/-15	-4.4/-22	-5.52/-2	-6.48/-7.23	-8.95/-11	-11.53/-11.6	-11.89/-13.89	-15.43/-13.53	-11.18/-8.62	
Θ(7.5°)	-4.08/-3.53	-8.09/-2.25	-1.45/-1.11	-0.85/-1.18	-1.62/-2.11	-2.75/-2.96	-3.32/-4.2	-4.88/-6.35	-7.97/-9.27	-10.41/-12.36	-15.26/-19.32	-18.46/-17.82	-15.86/-13.4	-11.31/-9.68	-7.83/-5.87	-5.19/-4.34	-3.97/-3.65	-3.96/-4.32	-5.91/-7.95	-10.37/-13.8	-18.25/-18.13	-16.85/-14.24	-12.6/-10.37	-7.54/-5.46
Θ(15°)	-6.87/-4.59	-2.88/-1.35	-0.30/38	0.460/08	-0.71/-0.6	-1.21/-1.08	-1.36/-2.11	-3.38/-2.57	-7.97/-10.14	-13.39/-18.23	-17.29/-17.39	-19.14/-18.89	-17.95/-14.54	-12.45/-11.04	-9.52/-4.74	-4.96/-3.69	-2.32/-3.21	-3.14/-4.69	-7.36/-10.01	-10.84/-9.94	-8.95/-8.45	-10.4/-11.91	-13.65/-15.2	-12.69/-9.45
Θ(22.5°)	-5.85/-4.96	-3.95/-2.57	-1.13/-0.12	-0.33/-1.52	-2.4/-2.18	-0.97/-0.37	-0.72/-2.13	-6.07/-11.41	-14.25/-11.85	-11.47/-12.25	-14.47/-19.33	-17.75/-13.17	-9.6/-7.86	-7.31/-6.51	-5.77/-5.32	-4.12/-3.07	-2.35/-1.79	-2.31/-2.92	-5.02/-7.22	-4.19/-5.92	-4.51/-4.54	-6.29/-8.95	-11.88/-14.79	-11.14/-7.68
Θ(30°)	-3.8/-3.11	-2.87/-3.55	-4.48/-3.06	-2.04/-2.81	-3.97/-2.24	0.020/83	0.05/-2.57	-6.91/-8.44	-7.31/-8.74	-11.51/-13.23	-12.14/-13.21	-17.24/-18.18	-10.03/-6.15	-5.15/-4.37	-3.87/-2.86	-1.37/-0.35	0.91/-2.9	0.67/-0.24	-1.82/-3.51	-5.11/-5.19	-4.79/-5.06	-8.65/-13.68	-14.46/-9.84	-7.29/-5.11
Θ(37.5°)	-3.89/-3.22	-2.23/-2.44	-4.4/-4.26	-2.87/-3.69	-6.63/-3.92	-0.96/-0.75	-2.94/-5.63	-8.88/-7.94	-7.95/-12.12	-17.51/-18.56	-16.26/-17.32	-14.94/-13.9	-9.14/-5.11	-2.88/-2.13	-2.07/-1.6	-0.530/38	0.660	-0.89/-0.71	-0.91/-2.3	-4.82/-6.63	-7.29/-8.27	-11.79/-18.44	-12.72/-7.41	-4.78/-4.08
Θ(45°)	-4.24/-3.43	-2.68/-2.12	-2.56/-3.18	-2.47/-3.66	-8.15/-5.45	-2.69/-3.31	-3.97/-1.35	-3.97/-4.22	-6.87/-19.2	-14.23/-9.87	-11.92/-18.2	-13.34/-8.71	-7.8/-6.4	-3.5/-1.1	-1.68/-1.28	-1.81/-2.13	0.040/81	-0.49/-1.51	-0.5/-1.82	-4.98/-5.9	-5.72/-7.58	-14.88/-18.6	-13.88/-12.97	-9.29/-6.97
Θ(52.5°)	-6.97/-5.78	-6.04/-6.43	-5.42/-3.4	-1.57/-2.67	-8.35/-6.65	-3.54/-5.51	-4.72/-3.62	-5.01/-4.65	-7.46/-14.22	-8.89/-8.85	-10.41/-17.63	-11.26/-5.68	-6.28/-6.67	-3.77/-1.71	-1.97/-1.86	-2.38/-3.4	-1.58/-0.86	-2.92/-2.77	-1.64/-2.86	-7.28/-7.54	-7.35/-9.61	-15.52/-14.81	-11.61/-11.73	-10.58/-10.31
Θ(60°)	-9.88/-7.59	-7.01/-7.5	-5.78/-5.76	-4.42/-4.24	-8.62/-8.29	-																		



Radiated Composite Gain Data of Scan Radio and BLE

Appendix D

Θ(60°)	-1.64/2.65	-4.79/3.95	-0.57/0.21	-0.03/2.19	-5.16/7.35	-7.22/6.63	-12.75/15.44	-7.7/5.44	-5.15/0.24	0.27/1.64	-5.46/2.88	-2.67/2.69	-6.47/7.37	-4.34/2.71	0.14/0.91	-0.64/2.14	-3.23/2.71	-3.75/1.46	0.28/0.43	0.07/1.12	-1.05/0.19	0.19/1.98	-4.45/3.62	-1.92/1.06
Θ(67.5°)	-0.91/-0.81	-3.22/-4.74	-1.79/-0.72	-0.15/-2.09	-3.05/-3.46	-5.69/-5.68	-12.65/-15.44	-9.56/-7.6	-4.91/0.8	1.15/-1.44	-4.14/-1.89	-2.05/-2.83	-7.09/-4.72	-4.68/-1.66	-0.19/-0.66	0.01/-0.6	-2.68/-1.18	-2.01/0.91	2.22/0.53	0.25/-3.2	-0.04/1.08	0.63/-1.14	-3.7/-7.1	-0.85/-0.06
Θ(75°)	-1.69/0.53	-2.19/-3.53	-2.41/-1.76	-0.91/-2.09	-1.89/-2.06	-4.68/-3.62	-6.84/-7.16	-9.69/-10.31	-7.22/-1.11	1.2/4.7	-5.04/-3.02	-3.51/-2.29	-7.55/-4.1	-4.38/-3.68	-0.78/-0.6	-1.18/-0.66	-2.04/-1.06	-1.13/-1.49	3.462/38	1.94/-1.63	0.32/0.68	0.06/-1.57	-4.99/-4.14	-1.54/-0.49
Θ(82.5°)	-2.21/-1.5	-1.68/-2.91	-2.87/-2.75	-2.14/-3.18	-1.91/-2.29	-5.67/-4	-5.97/-6.14	-10.18/-16.23	-8.45/-2	0.66/3.95	-6.5/4.14	-7.47/3.59	-8.88/3.95	-5.17/-4.51	-1.89/-1.04	-1.81/-0.49	-1.51/-1.64	-1.81/5.2	3.44/2.31	1.41/-1.54	0.71/0.11	-1.33/-2.83	-7.37/8.38	-1.91/-2.46
Θ(90°)	-1.8/-2.56	-2.2/-4.02	-2.71/-4.69	-4.03/-4.15	-2.68/-2.66	-7.18/-4.89	-5.4/-2.63	-8.55/-13.43	-13.32/-4.58	-2.14/-7.84	-8.96/-7.14	-10.52/-5.41	-9.62/-6.05	-9.12/-6.7	-3.87/-3.1	-2.05/-1.58	-2.96/-2.79	-2.74/-0.17	2.48/1.83	0.29/-1.5	-0.5/-0.32	-1.99/-3.2	-8.31/-11.33	-2.6/-4.06
Θ(97.5°)	-3.4/-0.9	-2.63/-5.35	-4.89/-5.34	-6.76/-6.01	-3.97/-4.35	-8.56/-5.92	-5.09/-6.46	-9.34/-13.75	-12.31/-7.41	-4.11/-8.22	-8.19/-7.07	-12.45/-12.06	-11.88/-7.74	-11.71/-12.85	-7.05/-5.8	-3.87/-4.22	-3.97/-3.69	-4.9/-3.68	0.37/0.28	-1.46/-2.78	-1.34/-1.35	-2.32/-4.77	-10.94/-14.34	-3.54/-5.73
Θ(105°)	-6.95/3.68	-4.35/-7.41	-7.38/-6.68	-7.96/-8.3	-6.08/-6.17	-11.41/-7	-7.15/-9.47	-11.53/-15.48	-12.32/-11.76	-7.89/-7.11	-7.07/-5.67	-7.02/-11.34	-17.68/-7.58	-10.95/-13.9	-8.83/-10.34	-4.64/-7.57	-8.35/-3.58	-5.81/-6.38	-0.41/0.98	-1.9/-5.03	-3.45/-1.69	-3.29/-7.18	-11.46/-13.28	-6.82/7.05
Θ(112.5°)	-5.67/6.37	-6.12/-8.2	-9.35/-11.1	-8.31/-10.3	-6.94/-7.51	-18.49/-6.94	-7.02/-11.34	-19.31/-18.88	-18.77/-14.18	-6.16/-3.66	-7.27/-5.8	-7.3/-14.77	-12.53/-7.43	-7.37/-7.13	-6.54/-10.6	-5.02/-3.26	-5.45/-5.04	-0.31/-0.69	-0.77/-8.1	-4.81/-3.68	-6.22/-10.37	-16.21/-11.97	-8.59/-5.26	
Θ(120°)	-6.46/5.37	-6.68/-11.72	-8.29/-8.17	-8.2/-10.14	-9.09/-12.33	-14.75/-13.19	-17.11/-16.96	-16.46/-18.36	-19.29/-18.86	-10.29/-7.81	-14.51/-13.43	-7.25/-19.32	-8.16/-6.1	-14.03/-9.43	-7.07/-7.67	-7.96/-8.42	-6.98/-4.69	-7.22/-3.84	-0.13/-0.56	-3/-7.88	-10.16/-9.62	-8.21/-12.8	-18.79/-11.59	-10.26/-7
Θ(127.5°)	-7.36/-12.86	-7.95/-8.33	-12.36/-6.42	-6.08/-10.04	-11.04/-13.27	-18.27/-18.57	-14.73/-14.57	-18.02/-18.45	-10.3/-10.84	-14.69/-13.91	-13.23/-10.35	-14.85/-13.8	-14.25/-12.23	-18.18/-15.67	-13.75/-12.68	-19.1/-12.19	-11.19/-9.53	-15.94/-8.96	-3.43/-4.03	-6.89/-17.86	-10.63/-13.25	-5.79/-7.98	-13.47/-10.21	-9.26/-9.21
Θ(135°)	-9.08/-7.64	-9.57/-8.12	-10.25/-9.17	-6.64/-9.08	-14.49/-15.6	-17.89/-18.04	-11.43/-13.26	-10.94/-11.96	-13.51/-12.31	-16.37/-16.15	-11.85/-9.83	-9.17/-11.12	-17.98/-18.25	-14.05/-16.64	-18/-14.84	-17.15/-12.02	-10.9/-7.7	-11.57/-12.39	-5.56/-4.28	-9.69/-8.49	-17.3/-13.28	-8.36/-6.48	-15.45/-7.9	-7.56/-10.18
Θ(142.5°)	-9.15/-7.22	-8.38/-9.8	-11.98/-11.65	-11.64/-14.93	-17.48/-14.76	-13.71/-15.97	-19.77/-16.93	-11.08/-9.37	-9.33/-9.5	-9.84/-11.22	-12.48/-17.76	-11.09/-10.86	-18.61/-16.96	-13.55/-18.61	-18.26/-18.12	-14.56/-12.35	-10.02/-10.86	-11.54/-9.48	-5.97/-4.52	-8.49/-12.52	-18.19/-12.39	-16.26/-10.21	-15.88/-10.48	-8.83/-10.43
Θ(150°)	-13.18/-10.55	-9.91/-10.42	-7.92/-5.88	-6.5/-8.4	-11.64/-17.77	-18.41/-18.34	-18.07/-16.8	-13.78/-12.73	-14.06/-12.41	-10.07/-9.15	-10.2/-13.62	-11.82/-11.33	-17.14/-16.09	-15.53/-17.75	-14.14/-13.65	-14.64/-17.8	-13.64/-14.31	-15.86/-12.88	-12.05/-13.6	-17.16/-15.22	-12.74/-12.09	-10.92/-13.4	-15/-11.57	-12.1/-14.17
Θ(157.5°)	-17.08/-16.3	-13.91/-11.88	-11.46/-13.77	-19.07/-18.76	-17.89/-18.04	-18.85/-18.25	-18.21/-18.23	-17.14/-19.04	-18.75/-18.27	-18.6/-17.1	-15.17/-16	-17.74/-17.87	-19.01/-17.75	-16.59/-12.41	-12.99/-15.25	-16.54/-13.91	-13.62/-16.5	-14.66/-14.18	-17.18/-17.12	-16.16/-17.55	-19.04/-16.66	-17.69/-18.98	-18.25/-19.18	-10.29/-12.46
Θ(165°)	-9.34/-10.91	-8.95/-9.1	-10.32/-12.11	-14.27/-15.16	-16.96/-16.53	-14.41/-13.42	-13.84/-14.96	-14.28/-12.34	-10.86/-11.32	-13.54/-15.88	-17.99/-17.58	-15.77/-11.87	-12.69/-16.66	-16.49/-17.1	-18.22/-19.26	-19.21/-14.65	-12.46/-11.18	-11.88/-12.59	-11.51/-10.8	-13.48/-16.64	-18.22/-18.91	-15.48/-17.98	-18.4/-14.18	-10.29/-9.22
Θ(172.5°)	-13.73/-11.86	-10.25/-9.97	-10.9/-12.59	-16.41/-18.65	-18.88/-18.82	-16.42/-15.83	-15.63/-15.51	-14.88/-13.86	-12.36/-11.31	-12.03/-14.09	-17.01/-17.07	-17.96/-18.87	-18.06/-16.91	-14.82/-14.76	-15.29/-16.52	-16.98/-14.88	-13.71/-13.58	-13.98/-14.5	-14.3/-13.56	-14.04/-15.82	-17/-18.24	-18.49/-17.28	-17.48/-17.11	-17.05/-14.91
Θ(180°)	-9.47/-9.4	-10.27/-14.12	-14.27/-14.61	-16.09/-16.12	-15.72/-15.79	-16.95/-18.11	-17.72/-16.07	-13.27/-11.37	-10.65/-10.56	-10.37/-9.82	-9.56/-9.61	-11.01/-11.39	-12.01/-12.6	-13.16/-13.66	-13.16/-12.62	-12.52/-12.48	-12.79/-13.01	-12.51/-12.31	-11.02/-10.75	-10.77/-10.98	-11/-10.94	-11.07/-11.26	-12.81/-12.34	-11.23/-8.81
Freq(Hz)	5.785GPol.	Phi/Ant. 2	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-8.52/-9.64	-6.08/-5.13	-4.02/-3.36	-3.52/-3.54	-3.69/-3.61	-3.76/-4.07	-4.14/-4.41	-5.35/-5.85	-6.7/-8.73	-12.79/-15.2	-15.99/-18.26	-17.25/-14.37	-9.7/-8.63	-6.24/-8.43	-3.81/-2.88	-1.96/-1.58	-1.41/-1.42	-1.77/-2.15	-2.53/-4.18	-5.07/-6.07	-8.44/-11.25	-14.41/-17.14	-18.42/-18.13	-14.63/-10.4
Θ(7.5°)	-13.42/-9.12	-6.16/-5.47	-4.28/-2.99	-1.99/-1.12	-0.92/-1.12	-1.22/-1.74	-2.23/-2.94	-4.13/-5.5	-13.86/-10.94	-13.24/-12.94	-18.83/-18.54	-9.55/-8.4	-6.11/-4.54	-4.32/-3.99	-3.87/-4.11	-4.46/-4.74	-4.93/-4.19	-3.85/-3.63	-3.37/-3.52	-4.89/-4.22	-7.72/-9.69	-12.86/-11.77	-19.07/-19.2	-14.63/-10.4
Θ(15°)	-7.41/-6.55	-6.78/-5.98	-4.62/-3.43	-2.24/-1.56	-1.29/-1.27	-2.01/-3.07	-3.63/-4.13	-4.23/-4.79	-6.44/-8.25	-10.74/-13.91	-17.96/-18.61	-18.48/-18.24	-17.57/-16.92	-12.11/-8.07	-6.09/-4.94	-4.02/-4.56	-5.35/-6.22	-6.07/-4.03	-2.83/-2	-1.17/-1.15	-1.84/-3.55	-6.58/-8.7	-9.82/-11.87	-11.37/-9.19
Θ(22.5°)	-6.81/-5.64	-5.14/-4.85	-4.91/-4.95	-4.01/-6.27	-1.7/-2.08	-3.94/-4.97	-2.99/-1.45	-1.45/-2.78	-5.47/-8.53	-11.22/-14.99	-18.16/-16.61	-12.4/-14.97	-8.87/-8.51	-6.58/-6.95	-5.85/-5.01	-5.15/-5.45	-6/-6.84	-6.81/-6.54	-6.12/-6.36	-3.43/-3.75	-5.17/-9.74	-18.16/-18.98	-18.23/-16.86	-12.89/-9.51
Θ(30°)	-9.28/-6.98	-5.17/-3.93	-3.6/-4.4	-5.42/-3.5	-1.51/-2.31	-5.51/-5.53	-2.15/-4.95	-2.21/-6.92	-12.46/-10.55	-9.78/-13.24	-17.83/-13.81	-10.45/-10.49	-10.34/-9.38	-9.46/-13.74	-7.32/-5.94	-4.46/-3.85	-4.78/-5.28	-3.84/-3.66	-5.95/-8.95	-1.74/-6.88	-8.08/-11.41	-13.89/-12.58	-15.48/-17.78	-18.35/-13.21
Θ(37.5°)	-9.24/-5.73	-3.65/-3.49	-3.47/-3.53	-4.6/-3.34	-1.19/-1.99	-4.1/-2.64	-0.68/-1.13	-4.37/-7.8	-5.4/-4.94	-7.26/-13.04	-17.06/-13.98	-14.14/-17.76	-15.92/-9.39	-10.43/-11.78	-8.02/-5.74	-3.96/-2.25	-2.59/-2.57	-0.40/-0.1	-1.47/-3.72	-5.36/-6.34	-7.73/-10.05	-12.98/-17.26	-19.42/-12.68	-11.7/-10.6
Θ(45°)	-13.86/-5.84	-5.68/-4.99	-5.35/-4.38	-4.11/-2.79	-2.95/-1.28	-2.66/-0.43	-0.25/-1.23	-2.49/-5.1	-5.88/-6.46	-9.47/-16.93	-15.27/-18.12	-18.92/-13.16	-12.5/-6.83	-6.08/-8.26	-7.22/-6.13	-3.32/-0.8	-2.23/-4.61	-0.96/6.4	-1.03/-4.92	-5.05/-6.27	-6.16/-8.3	-13.55/-9.52	-11.41/-7.19	-8.89/-12.84
Θ(52.5°)	-9.47/-9.92	-8.73/-7.17	-7.88/-5.71	-4.88/-2.99	-1.11/-3.61	-2.83/-0.33	-2.7/-4.9	-3.96/-6.65	-6.59/-9.07	-8.91/-12.45	-9.12/-15.32	-18.03/-8.08	-6.09/-3.59	-2.25/-5.24	-6.55/-7.22	-1.44/-1.98	-1.48/-4.4	-1.60/-2.62	-2.62/-8.56	-5.99/-4.17	-8.03/-11	-15.81/-17.22	-10.45/-10.67	-16.34/-14.14
Θ(60°)	-8.67/-9.57	-17.12/-12.17	-10.6/-6.25	-5.53/-5.07	-3.03/-7.75	-5.53/-2.5	-5.93/-6.91	-4.04/-5.08	-4.49/-8.39	-18.74/-15.61	-13.38/-17.04	-18.27/-8.8	-4.64/-5.39	-5.52/-6.15	-6.47/-5.82	-10.43/-4.24	-2.75/-5.96	-4.05/-2.03	-3.39/-6.23	-5.64/-3.42	-7.43/-13.89	-17.96/-16.24	-12.9/-16.85	-18.17/-15.43
Θ(67.5°)	-7.52/-7.41	-16.05/-16.24	-13.19/-7.37	-9.06/-12.4	-7.36/-11.89	-8.24/-5.67	-11.65/-9.02	-4.36/-6.42	-5.99/-12.8	-14.39/-16.86	-12.09/-18	-11.55/-10.95	-2.83/-0.84	-7.99/-9.44	-10.34/-5.79	-9.71/-6.44	-5.11/-5.85	-3.81/-3.47	-7.23/-7.41	-5.81/-5.52	-10.03/-15.82	-17.07/-18.23	-14.58/-17.8	-16.99/-12.13
Θ(75°)	-9.39/-8.74	-19.52/-18.88	-14.86/-9.84	-12.46/-18.78	-12.07/-16.81	-11.84/-12.06	-14.94/-15.76	-7.06/-8.13	-7.12/-11.02	-10.42/-18.84	-14.37/-18.02	-9.58/-10.34	-4.32/-6.95	-13.26/-12.77	-18.86/-7.59	-7.66/-6.06	-6.46/-6.85	-6.5/-7.03	-10.81/-7.62	-5.89/-5.94	-12.09/-15.02	-12.98/-18.76	-18.14/-13.98	-16.16/-12.46
Θ(82.5°)	-8.02/-7.92	-18.79/-11.87	-14.59/-9.44	-18.23/-11.72	-17.45/-14.01	-14.44/-18	-18.66/-16.73	-8.3/-10.5	-10.92/-8.7	-8.01/-13.77	-18.1/-18.26	-6.59/-13.94	-5.48/-14.04	-11.35/-18.54	-15.03/-6.91	-8.87/-5.77	-10.22/-9	-15.86/-11.86	-12.88/-9.4	-6.25/-6	-13.52/-17.31	-13.61/-15.32	-17.9/-11.54	-8.85/-13.03
Θ(90°)	-6.55/-10.09	-14.26/-10.36	-18.16/-9.16	-14.29/-10.48	-11.97/-11.48	-11.42/-13.64	-18.78/-18.81	-14.34/-13.52	-16.31/-9.03	-9.31/-12.92	-18.53/-11.65	-11.61/-8.69	-7.42/-14.85	-10.04/-18.31	-8.58/-8.21	-7.13/-4.79	-17.61/-12.29	-15.15/-10.97	-9.18/-6.27	-6.71/-4.27	-12.59/-13.82	-11.03/-11.05	-18.82/-13.63	-10.91/-11.48
Θ(97.5°)	-6.67/-14.18	-12.36/-8.17	-17.42/-8.27	-15.11/-7	-8.27/-1.93	-8.86/-18.03	-12.47/-13.2	-14.92/-17.94	-19.19/-11.11	-13.66/-11.92	-19.12/-12.63	-11.37/-14.48	-8.13/-17.57	-9.1/-16.85	-11.35/-14.5	-15.19/-17.76	-11.8/-15.22	-8.11/-5.74	-6.58/-11.72	-18.11/-12	-18.9/-11.8	-18.8/-12.35	-10.91/-11.29	-10.91/-11.29
Θ(105°)	-6.73/-18.31	-10.68/-8.88	-16.01/-8.81	-14.6/-7.83	-8.21/-6.44	-6.28/-6.92	-15.32/-13.15	-11.01/-16.04	-13.61/-11.23	-14.02/-10.73	-17.42/-10.11	-11.18/-18.04	-10.34/-18.78	-8.3/-14.91	-14.68/-13.42	-11.82/-19.04	-16.							



Radiated Composite Gain Data of Scan Radio and BLE

Appendix D

Θ(105°)	-3.36/2.09	-1.15/-1.75	-3.55/-6.4	-10.4/-6.86	-11.27/-3.99	-8.41/-12.96	-6.11/-6.13	-9.89/-14.61	-14.81/-13.33	-7.4/-5.52	-3.91/-4.18	-9.14/-19.14	-15.37/-15.53	-9.34/-15.96	-17.91/-11.21	-12.34/-10.56	-14.21/-6.27	-8.81/-4.59	-7.56/-4.04	-5.37/-4.5	-4.76/-5.66	-4.84/-3.72	-5.15/-2.55	-2.82/-6.6
Θ(112.5°)	-6.13/-2.91	-3.73/-3.89	-6.55/-8	-9.14/-8.63	-19.01/-6.04	-7.79/-16.77	-6.67/-9.14	-12.68/-16.21	-14.24/-18.16	-8.88/-6.69	-6.86/-4.81	-8.25/-19.35	-18.61/-7.1	-7.16/-11.77	-14.32/-8.02	-7.9/-4.9	-9.52/-6.48	-10.52/-6.91	-4.46/-5.44	-5.01/-5.17	-4.32/-5.39	-5.84/-6.7	-6.1/-3.59	-2.74/-6.97
Θ(120°)	-6.57/-2.68	-6.85/-6.15	-7.46/-9.03	-8.34/-7.44	-15.86/-12.42	-11.81/-17.98	-8.39/-10.65	-18.18/-17.54	-15.04/-18.71	-13.61/-5.23	-19.23/-10.32	-15.17/-15.96	-18.19/-8.69	-9.2/-14.1	-13.64/-8.56	-9.96/-7.82	-6.84/-5.49	-5.81/-8.87	-3.04/-7.26	-4.64/-7.03	-12.47/-4.49	-9.77/-11.28	-4.98/-2.6	-3.55/-4.71
Θ(127.5°)	-8.59/-7.29	-7.35/-9.53	-6.61/-14.1	-9.86/-7.37	-14.6/-14.41	-17.77/-15.99	-11.27/-14.52	-17.51/-17.97	-14.46/-10.31	-14.7/-12.68	-12/-11.59	-12.85/-16.28	-16.85/-17.31	-12.66/-14.69	-19.1/-13.63	-10.89/-16.48	-13.2/-4.13	-8.48/-13.75	-4.59/-7.71	-4.67/-11.11	-17.89/-3.27	-3.62/-7.74	-7.14/-5.16	-8.41/-5.8
Θ(135°)	-6.99/-11.23	-10.42/-10.63	-10.63/-10.41	-9.02/-7.49	-11.11/-18.5	-18.18/-14.35	-7.68/-8.73	-12.02/-11.17	-15.37/-17.45	-17.08/-14.7	-12.06/-10.93	-9.86/-17.42	-16.6/-12.36	-13.14/-15.4	-17.81/-14.54	-17.47/-15.39	-8.55/-8.28	-12.91/-11.4	-6.7/-8.09	-10.62/-18.79	-19.18/-5.62	-5.4/-8.78	-9.26/-6.29	-12.02/-9.2
Θ(142.5°)	-7.45/-9.94	-12.15/-9.24	-10.77/-13.24	-8.31/-6.92	-10.44/-18.95	-18.68/-16.46	-12.82/-11.89	-13.26/-13.36	-14.52/-15.79	-16.33/-12.81	-11.84/-13.87	-17.18/-14.99	-17.23/-17.68	-18.02/-19.21	-14.87/-13.92	-18.04/-4.89	-12.08/-11.19	-18.68/-18.94	-11.4/-14.88	-19.15/-18.79	-18.45/-16.99	-12.02/-14.78	-12.34/-8.15	-6.24/-7.1
Θ(150°)	-16.8/-11.29	-7.61/-6.4	-8.82/-15.33	-14.76/-9.98	-8.68/-11.45	-17.83/-19.42	-17.18/-15.89	-14.97/-14.89	-15.29/-18.88	-15.11/-12.13	-11.31/-13.03	-13.86/-14.85	-17.37/-17.83	-17.33/-12.28	-9.56/-11.17	-14.12/-11.5	-18.74/-13.18	-12.31/-15.99	-18.18/-18.96	-16.53/-11.63	-14.22/-14.83	-16.83/-14.54	-12.29/-13.18	-12.69/-14.6
Θ(157.5°)	-10.28/-8.54	-9.99/-13.44	-15.27/-15.48	-13.58/-12.99	-13.76/-13.38	-13.35/-12.85	-11.44/-10.16	-10.74/-13.2	-18.29/-18.87	-19.42/-18.01	-15.88/-15.68	-18.05/-19.88	-17.98/-18.71	-17.31/-15.95	-12.35/-11.47	-10.59/-9.7	-11.74/-14.9	-16.23/-17.08	-17.75/-18.59	-17.94/-18.41	-18.34/-18.17	-18.19/-17.42	-14.21/-11.59	-12.93/-12.88
Θ(165°)	-14.39/-12.03	-12.17/-11.35	-12.22/-13.73	-14.68/-15.39	-17.02/-17.45	-19.17/-19.25	-18.57/-18.78	-17.31/-13.93	-10.52/-9.43	-9.31/-8.83	-8.67/-9.5	-17.09/-17.74	-17.85/-18.34	-18.32/-18.9	-18.21/-15.94	-14.08/-11.86	-13.04/-17.14	-17.86/-19.28	-18.05/-19.11	-17.84/-15.62	-15.29/-17.82	-16.91/-15.6	-15.47/-17.69	-14.97/-14.44
Θ(172.5°)	-7.17/-6.85	-6.96/-8.33	-11.31/-15.55	-18.81/-17.87	-18.87/-17.3	-18.38/-17.92	-18.9/-17.25	-18.15/-17.74	-17.88/-17.51	-17.91/-18.81	-17.69/-17.77	-17.7/-18.56	-17.64/-17.69	-19.23/-19.5	-18.3/-18.68	-18.46/-17.34	-15.69/-16.24	-18.44/-18.2	-17.88/-17.1	-19.09/-18.4	-18.41/-19	-18.21/-14.54	-11.6/-9.05	-7.72/-7.31
Θ(180°)	-10.39/-9.97	-11.27/-13.02	-13.19/-13.59	-15.21/-16.56	-16.82/-17.09	-18.51/-18.72	-18.25/-18.93	-15.44/-14.12	-13.39/-12.35	-11.39/-11.09	-11.56/-12.09	-9.28/-8.69	-8.9/-9.8	-9.92/-9.87	-10.51/-11.97	-13.23/-14.16	-15.61/-19.24	-18.08/-18.29	-18.66/-19.07	-18.62/-15.71	-13.14/-11.02	-11.36/-10.47	-8.8/-10.24	-11.9/-13.1
Freq(Hz)	6.475GPol.	PhiAnt.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-8.65/-8.56	-7.69/-6.63	-5.64/-4.65	-4.34/-4.11	-3.95/-3.87	-4.44/-4.92	-5.78/-6.57	-8.38/-10.05	-11.26/-12.85	-17.04/-19.12	-18.88/-17.69	-13.8/-10.24	-8.82/-7.97	-7.34/-6.47	-5.34/-4.7	-4.13/-3.99	-4.23/-4.65	-5.07/-5.3	-5.85/-7.01	-7.94/-9.24	-12.33/-16.81	-17.42/-17.54	-18.61/-18.4	-13.58/-9.96
Θ(7.5°)	-10.22/-8.22	-7.48/-8.21	-8.21/-7.63	-7/-7.15	-6.55/-5.99	-5.78/-6.22	-7.4/-7.49	-9.2/-11.29	-13.18/-13.37	-15.64/-17.7	-15.21/-12.57	-10.01/-6.78	-5.63/-5.41	-5.43/-5.47	-5.35/-4.39	-4/-3.85	-3.6/-3.92	-4.23/-4.49	-5.7/-7.2	-8.39/-10.48	-12.69/-15.5	-16.09/-17.73	-18.61/-18.55	-17.82/-13.05
Θ(15°)	-10.5/-5.82	-4.86/-5.35	-5.12/-5.05	-6/-7.09	-7.06/-5.99	-5.12/-4.9	-4.68/-5.09	-6.18/-6.44	-6.96/-7.64	-8.56/-9.77	-10.89/-10.42	-9.98/-8.48	-7.04/-6.81	-7.13/-8.2	-8.85/-10.38	-9.96/-6.89	-5.3/-4.68	-3.96/-3.46	-3.75/-4.2	-5.3/-6.3	-7.55/-8.49	-9.09/-11.2	-13.36/-18.84	-18.41/-18.21
Θ(22.5°)	-7.86/-4.77	-3.33/-3.47	-2.53/-1.46	-1.39/-2.68	-4.23/-4.24	-3.3/-3.34	-4.43/-5.61	-5.36/-6.07	-8.2/-10.89	-12.7/-16.67	-17.54/-19.07	-18.97/-14.85	-12.43/-11.29	-9.81/-8.04	-7.16/-5.77	-8.82/-9.02	-10.29/-10.28	-6.72/-3.86	-2.96/-4.03	-6.88/-9.06	-10.98/-12.97	-13.06/-15.67	-18.7/-19.26	-18.12/-10.56
Θ(30°)	-7.75/-9.02	-8.53/-6.05	-4.51/-3.4	-1.92/-1.41	-2.07/-2.26	-2.01/-2.39	-2.59/-4.05	-9.5/-18.12	-14.08/-12.77	-14.51/-13.93	-14.45/-17.47	-18.67/-15.48	-11.9/-8.79	-7.16/-11.7	-8.25/-6.19	-5.06/-6.21	-6.33/-5.71	-5.8/-8.29	-11.05/-10.58	-11.11/-13.73	-15.44/-13.53	-18.2/-15.49	-9.47/-7.3	
Θ(37.5°)	-8.15/-8.34	-10.72/-8.56	-6.01/-6.2	-5.29/-3.09	-1.34/-0.25	-1.14/-3.21	-3.12/-2.03	-3.43/-6.42	-9.57/-9.46	-9.13/-8.54	-8.94/-13.03	-17.55/-17.88	-14.84/-6.71	-5.25/-4.7	-3.51/-3.1	-6.46/-5.03	-2.28/-1.44	-2.01/-4.35	-7.42/-5.47	-4.95/-6.22	-8.99/-18.35	-14.25/-13.21	-19.15/-18.41	-13.2/-9.4
Θ(45°)	-7.51/-7.98	-8.64/-7.21	-4.36/-5.38	-5.51/-4.89	-4.67/-6.68	-1.14/-2.71	0.210/-0.2	-4.22/-6.13	-8.87/-9.58	-12.63/-18.13	-13.71/-16.63	-18.13/-18.08	-11.38/-7.32	-5.12/-3.95	-3.37/-2.39	-4.07/-5.41	-3.84/-2.42	-1.66/-4.53	-5.66/-3.78	-3.3/-7.22	-11.84/-18.02	-15.89/-14.09	-18.04/-10.67	-8.93/-7.65
Θ(52.5°)	-8.45/-5.28	-6.99/-8.47	-4.97/-6.69	-6.02/-4.73	-7/-7.152	-4.14/-2.83	-0.32/-2.89	-6.6/-5.08	-6.47/-9.35	-14.19/-17.81	-9.08/-14.42	-19.01/-13.71	-10.44/-6.29	-5.06/-3.42	-6.55/-5.03	-4.41/-6.15	-5.59/-1.89	-1.52/-5.61	-8.41/-5.44	-5.64/-8.36	-12.22/-17.78	-16.82/-18.51	-13.75/-9.51	-4.68/-6.96
Θ(60°)	-9.21/-7.7	-8.58/-8.1	-7.09/-12.29	-6.87/-5	-13.48/-5.56	-8.22/-3.46	-1.43/-4.2	-6.85/-3.49	-6.35/-7.54	-15.24/-7.65	-6.7/-12.51	-18.01/-9.41	-6.27/-5.53	-4.03/-2.87	-6.14/-12.29	-8.35/-10.32	-7.79/-3.8	-2.86/-5.59	-8.32/-8.99	-12.77/-13.44	-15.46/-16.52	-14.29/-13.69	-18.81/-7.16	-3.62/-5.39
Θ(67.5°)	-9.03/-7.58	-10.59/-8.43	-7.17/-15.87	-7.6/-7.34	-13.78/-8.81	-16.09/-9.62	-5.28/-6.68	-8.87/-3.47	-5.72/-12.3	-16.62/-10.2	-8.07/-18.47	-11.77/-8.48	-1.75/-13	-4.71/-2.98	-3.72/-14.81	-9.98/-9.55	-9.61/-4.41	-5.05/-6.3	-8.43/-11.16	-17.48/-11.83	-12.77/-13.67	-9.57/-9.94	-9.58/-9.65	-4.61/-5.64
Θ(75°)	-8.68/-6.14	-10.91/-8.23	-7.24/-14.53	-10.33/-13.79	-11.89/-11.02	-18.75/-15.47	-14.75/-10.21	-11.4/-6.29	-5.4/-15.81	-10.4/-18.72	-14.09/-17.92	-8.55/-8.84	-1.97/-9.18	-6.09/-6.23	-7.72/-10.58	-8.54/-9.66	-8.61/-4.06	-8.76/-8.87	-11.17/-13.72	-15.26/-10.72	-10.86/-12.06	-8.28/-7.62	-11.12/-14.38	-6.81/-6.23
Θ(82.5°)	-11.15/-8.75	-16.18/-8.05	-7.25/-11.27	-8.82/-18.34	-7.42/-11.79	-11.68/-16.8	-18.15/-11.61	-13.11/-9.49	-4.51/-12.58	-7.87/-12.45	-18.91/-7.12	-3.22/-14.33	-6.4/-10.87	-8.72/-5.37	-12.19/-8.44	-9.85/-8.83	-12.25/-9.75	-10.84/-13.46	-9.85/-8.43	-12.25/-9.75	-10.84/-13.46	-9.85/-8.43	-12.25/-9.75	-10.84/-13.46
Θ(90°)	-10.61/-8.36	-16.76/-6.32	-6.06/-7.82	-8.31/-14.46	-7.68/-9.91	-8.06/-11.47	-18.64/-11.23	-17.42/-14.68	-8.49/-10.65	-5.27/-8.7	-19.1/-14.2	-5.47/-10.02	-5.9/-18.94	-18.49/-17.5	-12.62/-13.5	-11.91/-9.29	-12.45/-13.46	-8.76/-8.45	-10.39/-9.33	-10.99/-12.97	-11.31/-10.71	-13.93/-19.27	-10.34/-9.22	
Θ(97.5°)	-9.49/-9.18	-15.65/-7.54	-7.08/-7.62	-8.35/-12.37	-6.63/-10.98	-8.78/-9.46	-12.33/-17.65	-19.2/-14.92	-9.92/-13.81	-9.45/-9.95	-17.82/-11.09	-6.67/-13.11	-7.21/-11.78	-18.26/-12.73	-8.45/-5.15	-8.88/-18.04	-15.2/-12.92	-13.2/-19.02	-10.45/-12.05	-8.51/-13.47	-14.03/-12.72	-14.56/-11.47	-14.11/-17.82	-10.16/-10.75
Θ(105°)	-7.05/-8.04	-12.57/-9.43	-8.95/-7.61	-8.54/-9.21	-5.25/-8.4	-7.86/-5.72	-10.7/-10.88	-14.8/-11.4	-17.11/-18.09	-11.02/-9.12	-18.42/-10.1	-11.68/-10.95	-12.76/-10.38	-11.22/-6.45	-16.72/-16.69	-13.94/-15.91	-12.25/-17.99	-9.57/-11.56	-11.32/-13.22	-12.26/-11.63	-14.2/-13.51	-19.49/-18.96	-11.77/-11.55	
Θ(112.5°)	-6.64/-7.23	-10.62/-10.33	-11.31/-9.1	-11.8/-9.51	-4.55/-6.64	-9.45/-9.2	-11.69/-10.9	-8.99/-12.28	-14.76/-11.92	-18.84/-9.62	-17.59/-9.61	-14.09/-17.19	-12.43/-9.88	-10.55/-8.49	-13.81/-18.52	-13.32/-12.63	-16.59/-12.59	-9.55/-11.41	-8.83/-12.36	-14.43/-17.96	-13.18/-12.83	-18.16/-17.23	-14.93/-14.24	
Θ(120°)	-7.73/-9.35	-8.91/-9.88	-13.1/-10.07	-10.2/-12.69	-5.88/-5.92	-5.89/-7.32	-13.84/-9.2	-7.53/-7.68	-15.73/-13.28	-18.33/-12.23	-14.05/-11.19	-17.64/-15.83	-14.43/-9.33	-10.5/-11.28	-18.9/-15.57	-17.78/-19.31	-6.49/-8.1	-18.56/-7.67	-7.71/-6.45	-6.88/-18.96	-17.21/-17.54	-8.71/-8.48	-18.36/-17.55	-18.57/-16.01
Θ(127.5°)	-13.99/-14.39	-15.78/-13.49	-17.83/-9.43	-9.5/-14.12	-7.49/-9.35	-6.91/-5.86	-7.68/-12.26	-11.16/-12.66	-11.97/-12.26	-18.28/-18.27	-13.22/-18.47	-16.54/-17.53	-17.3/-15.7	-17.56/-12.34	-10.07/-10.51	-12.09/-7.55	-2.18/-7.05	-14.83/-7.52	-4.95/-4.11	-6.04/-11.8	-16.97/-6.94	-5.53/-6.82	-16.03/-16.89	-17.91/-16.48
Θ(135°)	-18.93/-18.43	-17.12/-19.04	-13.75/-9.51	-11.03/-11.67	-8.59/-11.76	-12.21/-10.68	-9.97/-11.17	-15.25/-14.13	-11.72/-18.03	-18.9/-18.18	-18.88/-19.02	-16.22/-12.15	-14.7/-12.12	-14.68/-17.76	-18.20/-10.39	-12.78/-4.13	-5.56/-7.51	-16.22/-11.69	-4.44/-5.05	-8.57/-11.92	-14.96/-11.09	-8.98/-9.15	-11.73/-17.91	-15.36/-12.79
Θ(142.5°)	-14.94/-11.75	-11.89/-18.72	-12.74/-9.01	-11.38/-10.59	-6.91/-6.41	-5.91/-8.31	-10.83/-10.24	-17.67/-14.57	-12.17/-13.92	-11.36/-10.98	-18.48/-10.31	-13.94/-18.92	-8.99/-12.09	-11.72/-8.76	-10.66/-15.98	-18.74/-8.12	-8.26/-18.29	-12.49/-11	-12.98/-10.76	-10.35/-11.77	-12.19/-10.79	-9.35/-11.46	-15.76/-15.87	-12.12/-13.62
Θ(150°)	-10.62/-10.85	-13.57/-16.12	-12.61/-12.48	-12.14/-13.16	-14.81/-12.95	-13.78/-16.05	-11.46/-11.84	-13.87/-18.27</																



Radiated Composite Gain Data of Scan Radio and BLE

Appendix D

Θ (150°)	-9.2/-9.17	-10.74/-12.51	-13.4/-16.75	-19.12/-13.65	-12.79/-11.64	-12.09/-17.42	-18.29/-18.95	-18.34/-18.57	-19.17/-13.86	-13.25/-13.77	-15.79/-16.03	-15.52/-16.88	-13.04/-13.77	-18.41/-19.22	-13.39/-11.71	-15.01/-11.45	-12.44/-13.57	-17.69/-14.29	-10.73/-12.8	-19.4/-18.1	-16.88/-16.3	-13.72/-12.3	-11.94/-9.62	-8.99/-9.55
Θ (157.5°)	-17.26/-14.35	-12.09/-12.41	-12.12/-12.24	-11.72/-12.01	-12.51/-16.81	-17.88/-18.9	-17.59/-16.89	-13.97/-11.62	-16.58/-19.02	-16.5/-16.31	-19.21/-18.8	-17.94/-19.4	-17.87/-15.52	-19.3/-15.13	-11.33/-10.72	-11.47/-15.66	-18.07/-17.01	-16.43/-18.51	-18.13/-18.32	-14.78/-14.44	-12.62/-12.84	-15.34/-13.89	-11.84/-11.06	-10.59/-13.12
Θ (165°)	-13.92/-12.04	-11.31/-12.16	-12.71/-13.57	-15.74/-17.85	-18.17/-18.17	-17.55/-19.25	-18.62/-17.86	-16.59/-14.44	-11.72/-12.89	-11.8/-11.05	-11.15/-14.2	-18.17/-16.36	-13.71/-14.34	-17.72/-18.04	-17.72/-18.5	-14.79/-13.07	-12.62/-15.28	-18.31/-18.01	-16.83/-18.26	-17.77/-17.98	-14.61/-13.54	-13.79/-12.65	-11.75/-13.09	
Θ (172.5°)	-9.08/-8.95	-9.66/-10.84	-11.62/-12.77	-13.72/-14.68	-16.43/-17.64	-14.36/-14.39	-16.16/-16.83	-16.79/-17.68	-16.72/-15.78	-17.73/-19.15	-18.58/-17.85	-19.64/-16.48	-15.81/-17.34	-17.62/-18.93	-17.69/-17.93	-17.7/-17.8	-18.35/-17.23	-15.33/-15.11	-15.28/-16.56	-18.55/-16.2	-14.19/-11.92	-11.44/-10.18	-8/-7.68	-7.75/-8.64
Θ (180°)	-10.74/-9.76	-10.91/-13.16	-14.64/-13.75	-14.25/-15.13	-14.55/-18.69	-18.13/-18.77	-18.95/-19.85	-18.69/-18.31	-16.19/-13.76	-11.23/-9.64	-9.24/-9.15	-10.36/-9.93	-9.71/-10.68	-11.48/-11.92	-13.57/-16.01	-18.02/-19.42	-18.38/-17.22	-18.45/-18.47	-18.57/-16.95	-13.64/-12.39	-12.41/-12.11	-12.42/-12.19	-11.33/-10.09	-8.87/-10.59
Freq(Hz)	6.9950Pol.	PhiAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-15.72/-12.55	-10.94/-9.87	-10.06/-8.66	-7.05/-5.1	-4.33/-3.99	-3.82/-3.68	-3.37/-4.45	-5.06/-5.66	-6.99/-7.97	-8.03/-9.04	-10.69/-13.31	-16.78/-18.37	-16.91/-13.24	-10.78/-8.82	-6.48/-5.44	-4.7/-4.32	-4.55/-4.09	-4.02/-4.34	-4.48/-4.41	-5.02/-5.93	-7.12/-8.4	-10.12/-11.14	-13.41/-15.56	-18.43/-16.71
Θ (7.5°)	-8.04/-6.32	-5.37/-4.44	-4.19/-4.47	-5.11/-5.38	-5.09/-4.51	-4.52/-4.54	-4.56/-4.7	-5.98/-7.6	-10.48/-13.33	-15.63/-19.28	-18.25/-19.01	-15.33/-11.77	-11.33/-11.61	-10.37/-8.92	-7.15/-6.02	-5.26/-4.62	-3.68/-2.7	-2.34/-2.38	-1.98/-1.92	-2.47/-3.05	-4.14/-5.26	-7.48/-10.03	-12.67/-15.42	-19.13/-12.4
Θ (15°)	-8.12/-4.96	-2.93/-1.83	-0.93/-0.87	-1.64/-2.2	-2.58/-2.44	-2.05/-1.46	-1.45/-2.54	-4.86/-6.59	-8.43/-8.4	-7/-5.89	-4.83/-4.39	-4.95/-6.6	-8.93/-11.57	-11.05/-9.17	-8.63/-7.1	-6.59/-6.41	-4.99/-3.7	-3.11/-3.06	-3.37/-4.48	-5.43/-6.07	-6.52/-7.47	-9.23/-10.52	-11.74/-14.14	-17.42/-15.37
Θ (22.5°)	-9.37/-7.02	-6.1/-3.52	-1.3/-0.98	-0.53/-0.06	0.070 -0.9	-0.6/-1.62	-2.72/-3.86	-4.15/-8.39	-3.67/-3.96	-4.44/-4.02	-3.58/-3.43	-5.81/-8.95	-14.3/-17.4	-18.2/-14.26	-9.87/-5.6	-4.63/-4.39	-2.81/-1.77	-2.46/-4.99	-6.66/-6.14	-4.2/-4.23	-5.71/-8.76	-12.33/-14.63	-17.28/-16.48	-17.52/-16.77
Θ (30°)	-8.93/-7.1	-6.41/-5.01	-3.19/-2.03	-0.86/-0.75	-1.171/-1.74	-1.271/-1.15	-2.78/-3.57	-2.27/-3.14	-3.68/-11.42	-18/-17.82	-17.89/-13.78	-11.63/-11.23	-14.24/-18.27	-17.9/-14.23	-10.4/-5.43	-4.95/-4.56	-2.65/-2.33	-5.77/-16.23	-9.56/-3.87	-2.8/-5.05	-10.04/-9.78	-6.99/-9.37	-16.07/-19.28	-18.41/-13.89
Θ (37.5°)	-13.25/-7.46	-6.08/-4.62	-2.78/-2.41	-1.79/-0.65	-2.73/-3.84	0/-0.96	-4.72/-2.83	-1.73/-4.74	-10.11/-17.24	-10.52/-9.91	-11.27/-8.45	-8.16/-11.45	-18.29/-10.67	-10.31/-11.77	-11.64/-6.03	-5.51/-4.69	-1.98/-1.48	-5.73/-11.69	-6.33/-4.31	-3.78/-6.19	-13.44/-13.88	-7.01/-8.44	-13.55/-9.36	-10.65/-14.09
Θ (45°)	-12/-12.27	-10.05/-6.26	-2.9/-3.2	-3.3/-0.61	-3.85/-3.62	-0.5/-1.54	-2.22/-0.31	-1.42/-6.8	-11.51/-15.11	-9.87/-9.13	-10.66/-15.19	-7.78/-9.75	-11.29/-12.03	-6.22/-9.09	-6.2/-5.71	-5.14/-6.81	-2.73/-1.6	-6.87/-7.05	-7.02/-7.95	-11/-16.8	-16/-10.85	-10.01/-12.9	-11.72/-7.4	-5.37/-14.7
Θ (52.5°)	-12.12/-12.33	-10.22/-9.95	-4.29/-3.46	-6.16/-1.28	-4.48/-4.28	-0.81/-5.14	-1.02/-0.57	-4.23/-9.7	-14.76/-18.31	-13.64/-9.6	-5.06/-10.85	-11.09/-18.42	-9.93/-7.4	-2.81/-2.84	-6.21/-47	-4.59/-7.43	-4.82/-5.48	-7.91/-5.64	-7.15/-9.74	-8.39/-9.78	-6.08/-11.04	-18.67/-12.6	-4.54/-4.71	
Θ (60°)	-10.44/-14.86	-11.58/-12.81	-4.78/-4.56	-8.12/-4.73	-11.92/-7.23	-2.31/-6.4	-0.72/-0.36	-4.4/-6.11	-9.88/-18.52	-18.89/-15.35	-4.03/-6.95	-19.25/-17.52	-9/-3.63	-2.61/-1.4	-5.9/-6.52	-8.5/-11.61	-6.38/-6.82	-9.3/-6.34	-7.41/-8.28	-4.67/-5.84	-8.63/-11.05	-12.93/-9.32	-10.41/-18.22	-7.99/-7.13
Θ (67.5°)	-13.23/-16.33	-11.98/-17.67	-5.71/-6.53	-7.41/-8.16	-15.23/-12.18	-8.28/-12.87	-2.6/-2.03	-3.72/-3.46	-9.11/-17.83	-13.11/-17.7	-8.71/-13.33	-16.74/-12.33	-6.11/-15.2	-3.2/-1.72	-8.9/-8.5	-6.29/-8.5	-8.85/-8.27	-6.06/-6.4	-4.99/-7.58	-10.29/-17.79	-19.02/-16.67	-9.64/-11.89	-9.66/-18.8	
Θ (75°)	-9.9/-14.78	-11.51/-10.91	-5.73/-5.67	-4.92/-5.05	-19.23/-13.35	-9.26/-13.14	-9.26/-13.14	-9.26/-13.14	-9.23/-11.48	-13.31/-18.02	-13.23/-9.98	-2.91/-13.13	-5.34/-28.3	-12.93/-13.83	-10.44/-11.59	-7.29/-9.22	-8.5/-6.05	-5.81/-4.73	-5.16/-7.7	-9.87/-8.24	-19.34/-19.38	-8.3/-9.53	-8.47/-10.13	
Θ (82.5°)	-7.75/-15.21	-8.73/-18.43	-4.57/-7.96	-6.87/-10.13	-13.3/-9.17	-15.97/-11.47	-19.12/-7.02	-7.39/-5	-9.16/-6.72	-6.74/-10.08	-13.22/-14.1	-9.13/-5.33	-4.29/-3.63	-9.1/-8.21	-11.2/-12.26	-11.69/-6.81	-8.54/-8.39	-11.26/-6.19	-4.51/-3.85	-4.71/-7.92	-8.82/-6.75	-11.81/-14.38	-7.5/-9.89	-7.87/-9.6
Θ (90°)	-7.96/-13.13	-10.29/-15.02	-6.07/-9.41	-5.91/-10.05	-10.86/-7.92	-18.51/-15.03	-10.56/-13.62	-8.58/-8.35	-7.94/-5.81	-7.74/-5.82	-18.29/-9.69	-6.39/-15.89	-3.85/-9.4	-9.66/-18.4	-8.16/-12.03	-10.92/-8.58	-11.83/-7.87	-18.17/-8.25	-6.42/-5.89	-6.09/-7.95	-7.26/-6.91	-11.64/-16.62	-10.16/-11.67	-7.23/-11.5
Θ (97.5°)	-11.0/-14.03	-11.03/-13.25	-6.43/-9.09	-5.51/-8.77	-8.84/-5.99	-13.04/-11.95	-7.53/-18.18	-12.74/-12.01	-9.13/-17.8	-18.8/-14.08	-6.17/-17.88	-6.56/-11.37	-10.24/-18.74	-8.22/-11.99	-14.32/-14.54	-9.85/-8.63	-10.47/-16.14	-13.93/-11.91	-13.74/-11.28	-15.65/-15.98	-18.31/-18.67	-18.63/-16.46	-18.33/-12.03	
Θ (105°)	-10.31/-13.22	-10.13/-14.7	-5.46/-9.05	-6.08/-8.94	-7.07/-4.63	-10.25/-16.83	-9.56/-14.83	-10.84/-16.71	-10.88/-13.6	-11.45/-9.46	-13.29/-18.45	-9.39/-17.71	-9.4/-9.53	-7.78/-13	-7.86/-18.13	-10.75/-17.66	-13.32/-11.33	-14.37/-9.99	-9.69/-9.7	-6.63/-10.71	-6.6/-6.42	-12.09/-18.82	-14.02/-15.1	-9.65/-10.23
Θ (112.5°)	-11.5/-11.5	-10.86/-14.86	-6.73/-9.49	-7.87/-8.96	-9.52/-4.25	-4.16/-6.05	-6.71/-7.01	-8.28/-13.14	-13.31/-18.95	-16.3/-10.44	-9.66/-11.6	-16.11/-16.81	-12.44/-10.63	-9.22/-10.81	-7.43/-15.39	-12.61/-17.32	-10.08/-14.28	-11.06/-12.97	-7.94/-7.62	-8.59/-9.08	-9.9/-9.24	-13.31/-17.28	-18.36/-18.94	-13.29/-8.57
Θ (120°)	-9.61/-10.1	-12.47/-15.9	-7.53/-9.81	-8.97/-9.96	-6.52/-6.63	-5.29/-4.69	-5.55/-7.09	-7.93/-10.68	-13.73/-16	-19.82/-19.09	-11.33/-13.28	-18.63/-18.46	-15.67/-11.89	-12.07/-16.18	-10.62/-18.9	-16.88/-10.48	-8.91/-14.01	-14.32/-14.54	-9.85/-8.63	-10.47/-16.14	-13.93/-11.91	-13.74/-16.91	-16.39/-19.04	-10.38/-9.12
Θ (127.5°)	-8.66/-7.19	-12.1/-15.56	-8.88/-11.32	-8.89/-8.33	-8.58/-8.88	-5.45/-5.22	-6.22/-9.52	-9.58/-13.34	-18.98/-18.89	-14.96/-18.93	-16.62/-14.11	-17.32/-18.91	-14.43/-13.51	-13.73/-14.54	-18.29/-7.09	-16.37/-13.13	-4.62/-6.2	-10.93/-9.43	-7.92/-8.52	-13.12/-18.15	-15.27/-16.81	-11.78/-11.43	-18.02/-18.1	-12.99/-15.85
Θ (135°)	-8.94/-9.03	-17.72/-18.04	-14.09/-12.9	-9.72/-8.58	-8.84/-8.29	-12.35/-10.71	-11.84/-9.29	-11.45/-17.63	-14.22/-14.18	-18.91/-15	-17.63/-18.69	-14.38/-13.12	-15.85/-10.58	-13.17/-18.04	-18.44/-8.56	-16.04/-14.44	-3.57/-8.34	-15.74/-10.8	-10.32/-7.48	-17.03/-13.97	-17.06/-11.03	-9.44/-11.29	-18.96/-16.35	-13.41/-13.82
Θ (142.5°)	-9.57/-10.22	-12.87/-12.31	-12.64/-13.8	-8.93/-9.92	-9.41/-6.92	-7.23/-5.74	-7.44/-14.67	-9.4/-13.26	-8.77/-15	-17.8/-12.76	-13.28/-16.98	-9.85/-16.38	-8.78/-16.5	-19.42/-11.57	-11.7/-9.98	-8.38/-6.36	-18.66/-11.69	-9.07/-12.6	-17.24/-11.66	-15.65/-15.98	-18.31/-18.67	-18.63/-16.46	-18.33/-12.03	
Θ (150°)	-19.22/-16.93	-14.01/-16.9	-15.83/-11.03	-9.27/-8.29	-6.77/-8.14	-14.47/-12.85	-9.75/-11.49	-11.64/-10.77	-13.96/-18.18	-18.43/-17.23	-18.91/-18.14	-11.13/-12.67	-12.84/-19.38	-11.84/-18.33	-14.67/-17.56	-13.44/-15.43	-17.42/-18.2	-12.32/-14.94	-11.93/-10.21	-8.59/-7.84	-9.32/-11.7	-14.4/-18.23	-17.96/-18.53	-18.11/-19.28
Θ (157.5°)	-18.85/-13.64	-13.88/-17.1	-18.45/-17.84	-17.13/-11.85	-10.29/-10.39	-11.62/-10.09	-8.45/-10.31	-13.25/-14	-17.42/-19.37	-17.07/-16.97	-17.53/-19.1	-18.8/-17.02	-17.83/-14.5	-12.8/-17.2	-16.92/-17.18	-17.8/-16.72	-17.97/-15.74	-11.35/-12.36	-12.4/-11.72	-12.84/-13.32	-16.14/-17.82	-17.56/-18.24	-19.35/-18.92	-15.57/-18.47
Θ (165°)	-16.53/-14.63	-11.42/-12.5	-13.96/-10.57	-7.87/-6.55	-5.89/-6.87	-8.49/-11.06	-15.56/-17.44	-15.83/-14.7	-18.34/-18.1	-18.67/-18.07	-18.55/-13.08	-10.74/-10.63	-10.9/-10.04	-8.42/-9.09	-11.85/-16.02	-19.29/-19.11	-18.78/-17.85	-17.9/-17.69	-15.09/-17.37	-16.2/-13.64	-12.72/-14.49	-18.23/-18.29	-15.04/-14.57	
Θ (172.5°)	-13.95/-10.53	-9.36/-10.51	-11.35/-9.4	-8.07/-7.44	-8.41/-9.98	-13.14/-14.81	-15.41/-16.37	-14.79/-13.23	-12.02/-11.51	-11.37/-13.68	-17.06/-17.6	-16.27/-18.83	-17.67/-18.64	-18.78/-17.99	-19.4/-19.32	-18.78/-16.03	-18.38/-18.57	-15.64/-13.94	-14.88/-14.25	-13.73/-13.69	-15.19/-16.76	-18.82/-18.31	-17.53/-19.16	-17.08/-14.58
Θ (180°)	-18.27/-17.99	-17.71/-16.31	-11.63/-12.12	-12.99/-13.54	-13.69/-14.68	-17.16/-18.91	-18.83/-18.78	-19.28/-17.61	-15.39/-15.7	-15.27/-16.51	-18.67/-17.92	-17.58/-18.75	-18.39/-16.41	-14.14/-12.38	-12.79/-11.67	-11.17/-11.01	-9.97/-9.99	-9.05/-9	-10.0/-10.11	-10.85/-11.44	-11.29/-13.11	-14.86/-18.05	-18.95/-17.85	-17.96/-18.9
Freq(Hz)	6.9950Pol.	ThetaAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)							

Total Gain Data

Gain	0.00	0.05	0.10	0.15	0.20	0.25	0.30	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85	0.90	0.95	1.00	1.05	1.10	1.15	1.20	1.25	1.30	1.35	1.40	1.45	1.50	1.55	1.60	1.65	1.70	1.75	1.80	1.85	1.90	1.95	2.00	2.05	2.10	2.15	2.20	2.25	2.30	2.35	2.40	2.45	2.50	2.55	2.60	2.65	2.70	2.75	2.80	2.85	2.90	2.95	3.00	3.05	3.10	3.15	3.20	3.25	3.30	3.35	3.40	3.45	3.50	3.55	3.60	3.65	3.70	3.75	3.80	3.85	3.90	3.95	4.00	4.05	4.10	4.15	4.20	4.25	4.30	4.35	4.40	4.45	4.50	4.55	4.60	4.65	4.70	4.75	4.80	4.85	4.90	4.95	5.00	5.05	5.10	5.15	5.20	5.25	5.30	5.35	5.40	5.45	5.50	5.55	5.60	5.65	5.70	5.75	5.80	5.85	5.90	5.95	6.00	6.05	6.10	6.15	6.20	6.25	6.30	6.35	6.40	6.45	6.50	6.55	6.60	6.65	6.70	6.75	6.80	6.85	6.90	6.95	7.00	7.05	7.10	7.15	7.20	7.25	7.30	7.35	7.40	7.45	7.50	7.55	7.60	7.65	7.70	7.75	7.80	7.85	7.90	7.95	8.00	8.05	8.10	8.15	8.20	8.25	8.30	8.35	8.40	8.45	8.50	8.55	8.60	8.65	8.70	8.75	8.80	8.85	8.90	8.95	9.00	9.05	9.10	9.15	9.20	9.25	9.30	9.35	9.40	9.45	9.50	9.55	9.60	9.65	9.70	9.75	9.80	9.85	9.90	9.95	10.00	10.05	10.10	10.15	10.20	10.25	10.30	10.35	10.40	10.45	10.50	10.55	10.60	10.65	10.70	10.75	10.80	10.85	10.90	10.95	11.00	11.05	11.10	11.15	11.20	11.25	11.30	11.35	11.40	11.45	11.50	11.55	11.60	11.65	11.70	11.75	11.80	11.85	11.90	11.95	12.00	12.05	12.10	12.15	12.20	12.25	12.30	12.35	12.40	12.45	12.50	12.55	12.60	12.65	12.70	12.75	12.80	12.85	12.90	12.95	13.00	13.05	13.10	13.15	13.20	13.25	13.30	13.35	13.40	13.45	13.50	13.55	13.60	13.65	13.70	13.75	13.80	13.85	13.90	13.95	14.00	14.05	14.10	14.15	14.20	14.25	14.30	14.35	14.40	14.45	14.50	14.55	14.60	14.65	14.70	14.75	14.80	14.85	14.90	14.95	15.00	15.05	15.10	15.15	15.20	15.25	15.30	15.35	15.40	15.45	15.50	15.55	15.60	15.65	15.70	15.75	15.80	15.85	15.90	15.95	16.00	16.05	16.10	16.15	16.20	16.25	16.30	16.35	16.40	16.45	16.50	16.55	16.60	16.65	16.70	16.75	16.80	16.85	16.90	16.95	17.00	17.05	17.10	17.15	17.20	17.25	17.30	17.35	17.40	17.45	17.50	17.55	17.60	17.65	17.70	17.75	17.80	17.85	17.90	17.95	18.00	18.05	18.10	18.15	18.20	18.25	18.30	18.35	18.40	18.45	18.50	18.55	18.60	18.65	18.70	18.75	18.80	18.85	18.90	18.95	19.00	19.05	19.10	19.15	19.20	19.25	19.30	19.35	19.40	19.45	19.50	19.55	19.60	19.65	19.70	19.75	19.80	19.85	19.90	19.95	20.00	20.05	20.10	20.15	20.20	20.25	20.30	20.35	20.40	20.45	20.50	20.55	20.60	20.65	20.70	20.75	20.80	20.85	20.90	20.95	21.00	21.05	21.10	21.15	21.20	21.25	21.30	21.35	21.40	21.45	21.50	21.55	21.60	21.65	21.70	21.75	21.80	21.85	21.90	21.95	22.00	22.05	22.10	22.15	22.20	22.25	22.30	22.35	22.40	22.45	22.50	22.55	22.60	22.65	22.70	22.75	22.80	22.85	22.90	22.95	23.00	23.05	23.10	23.15	23.20	23.25	23.30	23.35	23.40	23.45	23.50	23.55	23.60	23.65	23.70	23.75	23.80	23.85	23.90	23.95	24.00	24.05	24.10	24.15	24.20	24.25	24.30	24.35	24.40	24.45	24.50	24.55	24.60	24.65	24.70	24.75	24.80	24.85	24.90	24.95	25.00	25.05	25.10	25.15	25.20	25.25	25.30	25.35	25.40	25.45	25.50	25.55	25.60	25.65	25.70	25.75	25.80	25.85	25.90	25.95	26.00	26.05	26.10	26.15	26.20	26.25	26.30	26.35	26.40	26.45	26.50	26.55	26.60	26.65	26.70	26.75	26.80	26.85	26.90	26.95	27.00	27.05	27.10	27.15	27.20	27.25	27.30	27.35	27.40	27.45	27.50	27.55	27.60	27.65	27.70	27.75	27.80	27.85	27.90	27.95	28.00	28.05	28.10	28.15	28.20	28.25	28.30	28.35	28.40	28.45	28.50	28.55	28.60	28.65	28.70	28.75	28.80	28.85	28.90	28.95	29.00	29.05	29.10	29.15	29.20	29.25	29.30	29.35	29.40	29.45	29.50	29.55	29.60	29.65	29.70	29.75	29.80	29.85	29.90	29.95	30.00	30.05	30.10	30.15	30.20	30.25	30.30	30.35	30.40	30.45	30.50	30.55	30.60	30.65	30.70	30.75	30.80	30.85	30.90	30.95	31.00	31.05	31.10	31.15	31.20	31.25	31.30	31.35	31.40	31.45	31.50	31.55	31.60	31.65	31.70	31.75	31.80	31.85	31.90	31.95	32.00	32.05	32.10	32.15	32.20	32.25	32.30	32.35	32.40	32.45	32.50	32.55	32.60	32.65	32.70	32.75	32.80	32.85	32.90	32.95	33.00	33.05	33.10	33.15	33.20	33.25	33.30	33.35	33.40	33.45	33.50	33.55	33.60	33.65	33.70	33.75	33.80	33.85	33.90	33.95	34.00	34.05	34.10	34.15	34.20	34.25	34.30	34.35	34.40	34.45	34.50	34.55	34.60	34.65	34.70	34.75	34.80	34.85	34.90	34.95	35.00	35.05	35.10	35.15	35.20	35.25	35.30	35.35	35.40	35.45	35.50	35.55	35.60	35.65	35.70	35.75	35.80	35.85	35.90	35.95	36.00	36.05	36.10	36.15	36.20	36.25	36.30	36.35	36.40	36.45	36.50	36.55	36.60	36.65	36.70	36.75	36.80	36.85	36.90	36.95	37.00	37.05	37.10	37.15	37.20	37.25	37.30	37.35	37.40	37.45	37.50	37.55	37.60	37.65	37.70	37.75	37.80	37.85	37.90	37.95	38.00	38.05	38.10	38.15	38.20	38.25	38.30	38.35	38.40	38.45	38.50	38.55	38.60	38.65	38.70	38.75	38.80	38.85	38.90	38.95	39.00	39.05	39.10	39.15	39.20	39.25	39.30	39.35	39.40	39.45	39.50	39.55	39.60	39.65	39.70	39.75	39.80	39.85	39.90	39.95	40.00	40.05	40.10	40.15	40.20	40.25	40.30	40.35	40.40	40.45	40.50	40.55	40.60	40.65	40.70	40.75	40.80	40.85	40.90	40.95	41.00	41.05	41.10	41.15	41.20	41.25	41.30	41.35	41.40	41.45	41.50	41.55	41.60	41.65	41.70	41.75	41.80	41.85	41.90	41.95	42.00	42.05	42.10	42.15	42.20	42.25	42.30	42.35	42.40	42.45	42.50	42.55	42.60	42.65	42.70	42.75	42.80	42.85	42.90	42.95	43.00	43.05	43.10	43.15	43.20	43.25	43.30	43.35	43.40	43.45	43.50	43.55	43.60	43.65	43.70	43.75	43.80	43.85	43.90	43.95	44.00	44.05	44.10	44.15	44.20	44.25	44.30	44.35	44.40	44.45	44.50	44.55	44.60	44.65	44.70	44.75	44.80	44.85	44.90	44.95	45.00	45.05	45.10	45.15	45.20	45.25	45.30	45.35	45.40	45.45	45.50	45.55	45.60	45.65	45.70	45.75	45.80	45.85	45.90	45.95	46.00	46.05	46.10	46.15	46.20	46.25	46.30	46.35	46.40	46.45	46.50	46.55	46.60	46.65	46.70	46.75	46.80	46.85	46.90	46.95	47.00	47.05	47.10	47.15	47.20	47.25	47.30	47.35	47.40	47.45	47.50	47.55	47.60	47.65	47.70	47.75	47.80	47.85	47.90	47.95	48.00	48.05	48.10	48.15	48.20	48.25	48.30	48.35	48.40	48.45	48.50	48.55	48.60	48.65	48.70	48.75	48.80	48.85	48.90	48.95	49.00	49.05	49.10	49.15	49.20	49.25	49.30	49.35	49.40	49.45	49.50	49.55	49.60	49.65	49.70	49.75	49.80	49.85	49.90	49.95	50.00	50.05	50.10	50.15	50.20	50.25	50.30	50.35	50.40	50.45	50.50	50.55	50.60	50.65	50.70	50.75	50.80	50.85	50.90	50.95	51.00	51.05	51.10	51.15	51.20	51.25	51.30	51.35	51.40	51.45	51.50	51.55	51.60	51.65	51.70	51.75	51.80	51.85	51.90	51.95	52.00	52.05	52.10	52.15	52.20	52.25	52.30	52.35	52.40	52.45	52.50	52.55	52.60	52.65	52.70	52.75	52.80	52.85	52.90	52.95	53.00	53.05	53.10	53.15	53.20	53.25	53.30	53.35	53.40	53.45	53.50	53.55	53.60	53.65	53.70	53.75	53.80	53.85	53.90	53.95	54.00	54.05	54.10	54.15	54.20	54.25	54.30	54.35	54.40	54.45	54.50	54.55	54.60	54.65	54.70	54.75	54.80	54.85	54.90	54.95	55.00	55.05	55.10	55.15	55.20	55.25	55.30	55.35	55.40	55.45	55.50	55.55	55.60	55.65	55.70	55.75	55.80	55.85	55.90	55.95	56.00	56.05	56.10	56.15	56.20	56.25	56.30	56.35	56.40	56.45	56.50	56.55	56.60	56.65	56.70	56.75	56.80	56.85	56.90	56.95	57.00	57.05	57.10	57.15	57.20	57.25	57.30	57.35	57.40	57.45	57.50	57.55	57.60	57.65	57.70	57.75	57.80	57.85	57.90	57.95	58.00	58.05	58.10	58.15	58.20	58.25	58.30	58.35	58.40	58.45	58.50	58.55	58.60	58.65	58.70	58.75	58.80	58.85	58.90	58.95	59.00	59.05	59.10	59.15	59.20	59.25	59.30	59.35	59.40	59.45	59.50	59.55	59.60	59.65	59.70	59.75	59.80	59.85	59.90	59.95	60.00	60.05	60.10	60.15	60.20	60.25	60.30	60.35	60.40	60.45	60.50	60.55	60.60	60.65	60.70	60.75	60.80	60.85	60.90	60.95	61.00	61.05	61.10	61.15	61.20	61.25	61.30	61.35	61.40	61.45	61.50	61.55	61.60	61.65	61.70	61.75	61.80	61.85	61.90	61.95	62.00	62.05	62.10	62.15	62.20	62.25	62.30	62.35	62.40	62.45	62.50	62.55	62.60	62.65	62.70	62.75	62.80	62
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Antenna Pattern of 2.4GHz(2TX) and 5GHz(4TX)

Appendix E

Θ(22.5°)	2.43/2.63	2.78/2.81	2.55/2.36	2.12/2.20	2.03/1.42	0.71/0.50	1.07/1.76	2.33/2.63	2.61/2.29	1.84/1.12	0.66/0.86	0.98/1.38	1.73/1.67	1.48/1.19	1.03/0.79	0.49/0.38	0.60/1.08	1.11/1.16	0.63/0.29	0.24/0.01	-0.19/0.36	-0.17/0.10	0.47/0.76	1.29/1.71
Θ(30°)	3.46/3.98	4.04/3.99	3.57/3.10	2.90/2.66	2.37/1.90	1.27/1.15	1.82/2.75	3.36/3.39	2.89/1.97	1.31/0.97	0.64/0.43	0.48/1.31	1.98/2.89	3.54/3.66	2.92/1.67	0.40/-0.16	0.27/1.16	1.63/2.17	2.30/2.36	2.29/2.27	2.20/1.48	0.78/0.39	0.82/1.45	2.02/2.68
Θ(142.5°)	2.85/3.53	3.77/3.47	2.87/2.20	1.66/1.25	1.26/0.79	-0.08/0.16	0.88/2.35	3.08/3.18	2.49/1.35	0.83/0.51	-0.41/-1.18	-1.29/-0.21	1.15/2.55	3.14/3.03	2.89/2.59	1.91/1.19	0.82/0.63	1.12/2.61	2.46/2.63	2.63/2.62	2.54/1.82	1.40/0.78	0.39/0.30	1.12/1.91
Θ(45°)	0.75/2.03	2.81/2.81	2.08/1.12	0.28/-0.21	-1.05/-2.41	-2.78/-1.53	0.04/1.63	2.65/2.48	1.56/0.86	0.76/-0.01	-2.15/-4.45	-5.86/-4.33	-1.83/0.44	1.68/2.43	2.63/1.99	0.96/-0.16	-1.02/-1.41	-1.78/0.96	0.65/1.79	2.88/2.67	2.17/0.70	-0.35/-0.54	-0.97/-1.89	-1.99/-0.74
Θ(52.5°)	-2.20/0.02	1.51/1.77	1.35/0.05	-0.60/-1.22	-3.32/-5.32	-4.30/-2.16	-0.56/0.55	1.55/1.67	0.84/0.65	1.00/-0.69	-3.88/-5.95	-7.71/-5.98	-2.86/-0.58	1.03/1.91	1.04/-0.46	-2.60/-3.60	-3.38/-2.79	-3.71/-3.16	-0.81/0.75	2.15/2.17	1.30/-0.56	-2.29/-3.42	-2.97/-4.07	-5.05/-3.88
Θ(60°)	-0.66/-2.20	-0.09/0.93	0.46/-0.24	-0.04/-0.27	-2.09/-3.77	-3.06/-2.20	-1.89/-0.91	0.70/1.28	0.42/-0.13	-2.89/-3.01	-3.65/-4.59	-3.57/-1.47	0.57/1.00	0.36/-1.27	-3.49/-5.67	-6.98/-6.07	-5.32/-5.08	-4.12/-1.98	0.08/1.06	0.57/-1.00	-2.38/-3.83	-3.32/-3.77	-4.35/-5.59	
Θ(67.5°)	-5.21/-3.45	-1.09/-0.02	-0.58/-1.07	-0.28/-0.41	-1.77/-2.32	-1.74/-2.05	-2.91/-2.22	-0.82/-0.55	-0.89/-0.70	-0.12/-1.59	-1.95/-1.67	-2.19/-3.46	-4.33/-2.20	-0.86/-0.60	-0.98/-1.66	-2.06/-3.76	-4.63/-6.04	-5.01/-5.30	-6.07/-3.01	-0.44/0.56	-0.30/-1.88	-2.42/-2.37	-1.79/-2.02	-2.79/-4.67
Θ(75°)	-6.04/-5.41	-3.24/-1.75	-1.85/-2.52	-1.28/-1.05	-1.61/-1.84	-1.67/-2.56	-4.38/-0.40	-2.30/-2.15	-2.29/-2.03	-1.41/-2.67	-1.39/-3.25	-5.28/-4.75	-2.71/-2.61	-2.55/-2.72	-2.59/-2.38	-2.04/-3.04	-3.04/-3.59	-6.25/-4.05	-1.10/0.16	-1.14/-2.99	-3.07/-1.86	-1.51/-1.42	-2.13/-4.55	
Θ(82.5°)	-7.23/-7.61	-5.38/-3.78	-3.74/-3.81	-2.42/-1.98	-2.06/-2.71	-3.02/-0.41	-6.30/-6.16	-4.12/-4.22	-4.78/-4.02	-3.04/-3.52	-3.39/-2.44	-2.30/-5.02	-8.21/-6.99	-5.57/-5.12	-4.41/-4.89	-3.67/-2.08	-1.34/-1.76	-3.26/-5.17	-1.73/-0.78	-3.26/-5.17	-4.85/-2.55	-2.13/-2.19	-2.67/-5.74	
Θ(90°)	-8.96/-10.70	-9.30/-6.59	-5.84/-5.99	-4.63/-3.77	-2.92/-3.60	-4.83/-6.14	-8.48/-9.07	-6.32/-5.42	-6.56/-5.75	-5.33/-6.22	-6.17/-4.36	-4.04/-6.56	-10.00/-10.75	-9.00/-9.00	-7.94/-7.78	-6.35/-4.15	-1.85/-2.03	-3.46/-5.24	-6.56/-6.53	-4.14/-2.88	-4.87/-7.42	-6.71/-4.59	-3.48/-3.66	-3.15/-7.37
Θ(97.5°)	-11.19/-12.47	-12.20/-8.74	-7.37/-7.82	-6.36/-5.61	-4.31/-5.25	-7.16/-7.55	-10.10/-12.28	-8.99/-7.99	-8.58/-7.58	-6.58/-7.30	-7.70/-6.38	-6.76/-10.46	-13.06/-14.05	-13.04/-12.50	-11.19/-11.04	-9.42/-6.99	-4.91/-4.36	-6.30/-7.52	-7.83/-10.57	-9.34/-7.13	-8.22/-11.33	-8.98/-7.20	-6.20/-5.80	-4.82/-9.17
Θ(105°)	-14.71/-14.22	-13.72/-11.83	-9.91/-9.97	-8.46/-7.39	-5.51/6.46	-9.68/-9.48	-11.13/-13.54	-10.76/-9.91	-11.57/-11.58	-9.53/-9.06	-8.72/-7.17	-14.74/-12.53	-13.87/-14.97	-15.46/-15.21	-11.87/-12.32	-12.29/-11.99	-9.70/-8.96	-11.27/-13.78	-11.62/-15.82	-14.47/-12.31	-12.83/-13.65	-9.91/-7.30	-7.44/-8.08	-6.65/-10.74
Θ(112.5°)	-15.45/-14.10	-13.97/-12.07	-12.73/-13.09	-11.40/-8.61	-8.25/-8.74	-9.56/-11.59	-14.96/-15.02	-13.56/-12.64	-12.88/-12.67	-11.30/-10.42	-9.69/-8.62	-11.62/-15.45	-15.61/-15.59	-15.39/-15.35	-15.22/-15.69	-14.85/-12.72	-13.07/-11.83	-14.32/-14.82	-15.24/-15.28	-15.03/-13.48	-12.82/-14.55	-11.80/-9.12	-8.21/-9.65	-9.32/-10.53
Θ(120°)	-14.66/-15.68	-15.79/-14.68	-13.94/-12.13	-12.22/-11.75	-11.39/-10.85	-10.61/-12.13	-14.03/-14.69	-15.18/-13.77	-14.90/-13.73	-11.73/-11.07	-11.71/-14.78	-15.54/-14.78	-15.17/-15.69	-15.57/-15.23	-14.66/-13.51	-10.98/-13.01	-14.33/-15.45	-15.96/-15.97	-13.11/-11.29	-10.70/-13.16	-15.39/-13.33	-11.59/-12.08	-12.24/-12.39	
Θ(127.5°)	-14.98/-15.13	-14.98/-13.45	-13.65/-15.10	-15.26/-12.19	-10.39/-10.72	-12.43/-14.87	-15.02/-14.70	-15.67/-14.39	-15.20/-12.88	-13.11/-13.53	-13.87/-12.65	-12.98/-14.38	-15.83/-14.98	-15.31/-15.29	-14.89/-14.88	-15.35/-15.49	-12.48/-12.49	-15.00/-15.34	-15.32/-15.34	-15.28/-14.83	-15.59/-14.15	-13.17/-13.73	-13.83/-14.74	
Θ(135°)	-14.76/-14.82	-15.86/-14.98	-15.64/-15.20	-13.36/-11.54	-13.23/-13.75	-14.37/-13.52	-15.09/-15.66	-15.39/-15.72	-14.37/-13.51	-15.30/-15.60	-14.95/-15.03	-12.45/-12.78	-14.06/-14.13	-15.95/-15.61	-13.74/-14.94	-15.29/-15.55	-15.08/-15.40	-14.77/-15.38	-15.97/-15.51	-15.30/-16.05	-15.13/-15.72	-14.31/-14.56	-14.51/-13.72	-14.27/-15.28
Θ(142.5°)	-15.92/-15.28	-14.65/-14.94	-15.32/-15.15	-15.50/-15.55	-15.17/-13.14	-13.20/-15.23	-14.97/-15.15	-14.73/-15.31	-15.16/-15.03	-14.63/-15.06	-15.59/-16.42	-13.36/-13.99	-15.17/-15.36	-15.07/-15.54	-15.73/-15.45	-14.03/-11.29	-12.69/-16.07	-15.20/-15.18	-14.75/-15.08	-15.66/-15.87	-15.60/-15.28	-15.41/-13.87	-13.34/-13.36	-13.88/-14.65
Θ(150°)	-14.98/-15.01	-15.55/-16.04	-14.79/-15.39	-15.06/-15.21	-15.02/-14.17	-15.02/-15.19	-15.99/-15.24	-15.06/-15.34	-15.14/-15.58	-15.10/-15.70	-14.70/-14.65	-15.59/-14.62	-13.74/-15.04	-14.77/-15.34	-14.98/-15.10	-15.33/-15.26	-15.55/-14.98	-15.82/-15.75	-15.78/-15.28	-15.22/-16.04	-14.75/-15.54	-15.62/-15.38	-15.56/-15.31	-15.33/-15.27
Θ(157.5°)	-15.44/-15.23	-15.11/-15.90	-15.31/-15.37	-14.89/-14.85	-15.30/-15.22	-15.00/-14.82	-15.64/-15.25	-15.76/-15.94	-15.24/-16.04	-15.80/-15.33	-15.38/-15.78	-15.58/-15.87	-14.64/-15.27	-14.96/-15.02	-15.14/-15.28	-14.97/-14.48	-15.41/-15.09	-14.93/-14.95	-14.52/-15.71	-15.27/-15.04	-14.57/-14.43	-15.18/-15.54	-14.78/-15.39	-15.42/-15.33
Θ(165°)	-14.91/-16.01	-15.11/-15.54	-14.85/-15.57	-15.18/-15.16	-15.19/-15.46	-14.83/-15.47	-14.62/-15.15	-15.22/-15.91	-15.64/-15.53	-14.88/-15.22	-15.44/-15.28	-15.47/-15.82	-15.53/-15.22	-15.07/-14.57	-14.65/-14.74	-15.16/-15.64	-14.95/-15.61	-14.90/-15.38	-15.65/-16.60	-15.11/-15.28	-15.09/-15.78	-15.04/-15.10	-14.82/-15.56	-15.74/-15.35
Θ(172.5°)	-15.85/-14.54	-14.98/-15.48	-14.92/-15.05	-14.88/-15.23	-15.53/-15.21	-15.56/-15.37	-14.96/-15.56	-14.93/-15.03	-15.11/-15.99	-15.28/-15.33	-15.78/-15.76	-14.63/-16.00	-15.32/-15.21	-15.67/-15.41	-15.24/-15.99	-15.78/-15.80	-15.65/-14.76	-15.51/-15.22	-15.84/-14.80	-15.53/-15.56	-14.86/-15.33	-14.83/-15.64	-15.69/-15.17	-14.90/-15.38
Θ(180°)	-15.52/-14.70	-15.49/-15.08	-16.00/-15.26	-16.09/-15.02	-15.20/-15.06	-14.79/-15.76	-15.28/-15.37	-15.03/-15.47	-14.50/-15.21	-15.07/-15.13	-14.83/-15.58	-15.15/-15.84	-15.37/-15.04	-14.67/-15.62	-14.74/-14.78	-15.32/-15.87	-15.09/-16.16	-15.89/-15.62	-15.23/-15.72	-15.38/-15.17	-15.62/-14.62	-15.22/-14.81	-15.47/-15.24	
Freq(Hz)	2.45GPol	TotalAnt.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
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°)	-8.68/-8.60	-8.42/-7.97	-7.75/-7.75	-7.83/-8.04	-8.09/-7.85	-7.41/-7.22	-7.18/-7.22	-7.42/-7.95	-8.69/-9.09	-9.09/-8.82	-8.40/-8.00	-7.78/-7.84	-8.00/-8.16	-8.36/-8.37	-8.27/-8.14	-8.07/-8.15	-8.31/-8.40	-8.81/-8.30	-8.04/-7.79	-7.33/-6.86	-6.61/-6.74	-7.21/-7.83	-8.46/-8.91	-8.99/-8.78
Θ(7.5°)	-8.76/-8.23	-7.85/-7.48	-7.24/-6.96	-6.80/-6.58	-6.36/-6.12	-5.95/-5.88	-5.91/-6.22	-6.69/-7.53	-8.46/-9.31	-9.58/-9.04	-8.01/-6.94	-6.30/-5.91	-5.72/-5.66	-5.66/-5.60	-5.46/-5.42	-5.49/-5.66	-6.04/-6.45	-6.98/-7.34	-7.56/-7.39	-6.95/-6.36	-6.04/-6.05	-6.37/-6.97	-7.86/-8.95	-9.57/-9.35
Θ(15°)	-6.72/-5.96	-5.37/-4.82	-4.23/-3.65	-3.50/-2.42	-1.96/-1.61	-1.29/-1.05	-1.03/-1.16	-1.40/-1.87	-2.34/-3.06	-4.03/-4.81	-5.25/-4.98	-4.39/-3.79	-3.30/-2.94	-2.73/-2.58	-2.61/-2.42	-2.80/-3.05	-3.78/-4.63	-5.53/-6.41	-7.33/-8.12	-8.64/-8.59	-8.15/-7.60	-7.05/-6.87	-7.05/-7.39	-7.77/-7.57
Θ(22.5°)	-4.57/-4.01	-3.54/-2.94	-2.23/-1.46	-0.63/-0.14	0.83/1.39	1.86/2.12	2.12/2.00	1.83/1.51	1.04/0.22	-0.86/-1.86	-2.53/-2.59	-2.30/-1.80	-1.37/-1.01	-0.82/-0.68	-0.41/-0.69	-1.05/-1.72	-2.56/-3.30	-3.85/-4.21	-4.59/-5.22	-6.31/-7.79	-9.10/-9.17	-8.47/-7.35	-6.50/-6.06	-5.77/-5.25
Θ(30°)	-3.43/-3.14	-2.94/-2.51	-1.85/-0.97	0.18/1.28	2.26/3.02	3.46/3.65	3.45/3.41	3.17/2.87	2.36/1.56	0.49/-0.44	-1.09/-1.31	-1.17/-0.83	-0.44/-0.10	0.09/0.12	0.06/-0.15	-0.61/-1.33	-2.07/-2.60	-2.32/-1.73	-1.26/-1.24	-1.73/-2.76	-4.21/-5.72	-6.57/-6.90	-6.43/-5.49	-4.68/-3.94
Θ(37.5°)	-3.54/-3.49	-3.50/-3.28	-2.74/-1.52	0.01/1.43	2.48/3.26	3.66/3.65	3.48/3.20	2.96/2.52	1.82/0.86	-0.22/-1.09	-1.56/-1.59	-1.31/-0.85	-0.40/-0.01	0.26/0.32	0.24/0.07	-0.42/-1.19	-1.77/-1.38	-0.22/0.88	1.54/1.61	1.07/0.05	-1.30/-2.72	-4.00/-4.85	-5.29/-4.96	-4.40/-3.87
Θ(45°)	-3.82/-3.95	-4.22/-4.49	-4.32/-2.81	-0.96/0.50	1.43/2.14	2.38/2.27	1.91/1.35	0.50/-0.48	-1.48/-2.41	-3.25/-3.57	-3.14/-2.17	-1.29/-0.47	0.12/0.39	0.44/0.29	-0.33/-1.41	-1.90/-0.23	1.28/0.66	3.24/3.03	2.24/1.20	0.22/-0.45	-0.85/-1.14	-1.80/-2.42	-3.16/-3.67	
Θ(52.5°)	-4.12/-4.01	-3.82/-3.88	-3.65/-2.15	-0.68/-0.03	0.18/0.65	1.28/1.69	1.85/1.63	1.29/0.77	0.07/0.81	-1.86/-3.42	-5.74/-7.14	-5.18/-2.83	-1.54/-0.55	0.21/0.57	0.70/0.54	-0.34/-1.72	-1.59/0.72	2.85/4.09	4.42/4.09	3.35/2.49	1.67/1.05	0.79/0.65	0.31/-0.47	-1.87/-3.34
Θ(60°)	-5.65/-5.58	-4.47/-3.63	-2.52/-0.74	0.46/0.48	0.17/0.48	0.90/1.52	1.44/1.21	0.75/0.45	0.25/-0.20	0.91/-1.99	-3.75/-5.26	-4.14/-2.15	-1.17/-0.53	0.10/0.62	1.01/0.97	-0.05/-1.70	-1.32/1.39	3.58/4.65	4.78/4.23	3.29/2.34	1.66/1.33	1.25/1.17	0.77/0.04	-1.58/-3.86
Θ(67.5°)	-7.04/-8.16	-5.82/-4.28	-2.90/-1.16	-0.36/-0.74	-0.71/0.23	1.14/1.49	1.31/0.80	0.38/0.51	0.83/0.83	0.59/0.06	-1.05/-2.51	-2.32/-1.45	-1.06/-0.82	-0.23/0.56	-1.11/1.80	-0.61/-2.30	-1.11/1.80	3.81/4.72	4.61/3.55	2.07/0.7				



Antenna Pattern of 2.4GHz(2TX) and 5GHz(4TX)

Appendix E

Θ(67.5°)	0.19/0.10	-0.39/0.39	1.04/-0.99	-6.99/-7.74	-1.06/-1.88	-1.31/1.82	1.73/1.15	1.60/0.70	-2.27/-4.15	-1.54/-0.34	-0.89/-2.40	0.28/3.69	4.64/4.32	3.35/4.36	4.67/3.94	3.48/1.21	-1.50/-1.52	-0.70/-0.05	0.01/-0.51	-1.32/-1.72	0.28/1.08	0.23/-1.61	-2.36/-2.84	-0.04/0.42
Θ(75°)	-1.26/-2.59	-1.82/-1.09	0.23/-1.36	-7.43/-8.42	-0.88/-2.01	-0.76/2.39	2.27/2.05	2.45/1.01	-2.26/-4.09	-1.23/-0.03	-1.41/-3.05	-1.43/-2.44	3.38/3.14	2.34/3.91	3.75/2.17	2.89/1.11	-2.17/-1.83	-1.11/-1.41	-1.52/-0.14	-1.12/-0.50	1.56/1.37	-0.99/-2.86	-3.42/-3.96	0.74/0.48
Θ(82.5°)	-3.19/-4.14	-2.66/-1.56	-0.69/-2.85	-7.78/-6.72	-1.32/-2.19	-0.17/-1.91	1.78/2.27	2.91/0.97	-1.70/-2.77	-0.32/0.43	-1.55/-4.32	-2.22/1.61	2.45/1.53	0.82/3.26	2.93/0.43	1.40/-0.01	-4.31/-1.88	-0.35/-2.19	-1.87/-1.03	-2.19/-0.69	1.54/0.16	-1.51/-4.38	-4.19/-5.36	0.08/-0.10
Θ(90°)	-5.59/-6.27	-2.57/-2.27	-2.00/-3.79	-7.73/-6.14	-1.08/-1.77	-0.54/-1.55	1.27/1.87	2.35/0.44	-1.85/-2.72	-1.23/-0.48	-2.12/-3.54	-5.56/-1.32	2.27/1.65	-1.27/1.57	1.55/-0.66	-0.83/-0.94	-4.17/-3.35	-1.01/-3.61	-4.52/-3.58	-3.59/-4.44	-1.20/-0.77	-1.80/-4.38	-5.60/-7.82	-1.93/-3.68
Θ(97.5°)	-7.12/-8.21	-4.20/-4.43	-4.46/-5.41	-7.72/-6.07	-1.94/-1.89	-1.03/0.82	0.43/-1.45	1.90/0.11	-1.37/-2.48	-1.53/-0.82	-2.68/-5.57	-5.58/-1.33	1.30/0.29	-2.94/0.47	-0.34/-2.05	-1.36/-3.56	-7.39/-5.43	-3.19/-7.13	-6.51/-5.98	-5.37/-2.03	-3.85/-5.14	-4.32/-7.86	-5.82/-10.16	-5.08/-4.77
Θ(105°)	-10.29/-9.34	-5.40/-6.60	-8.44/-7.21	-6.93/-5.05	-2.55/-2.76	-1.63/-0.11	-0.43/0.01	0.41/-1.05	-2.14/-2.57	-2.75/-2.97	-4.82/-5.78	-8.07/-4.05	0.12/0.15	-1.59/-1.83	-2.23/-2.85	-4.39/-5.43	-8.04/-7.59	-6.67/-8.77	-7.59/-5.78	-6.42/-2.14	-3.34/-10.18	-8.62/-7.76	-9.81/-6.80	-5.56/-11.13
Θ(112.5°)	-10.89/-10.10	-8.06/-5.87	-8.20/-7.47	-7.07/-4.23	-3.96/-4.34	-2.31/-1.14	-1.26/-0.86	-0.86/-1.43	-2.36/-2.89	-3.39/-3.44	-4.86/-9.03	-8.78/-1.85	0.38/-1.85	-3.46/-3.26	-2.62/-4.83	-4.69/-6.09	-9.95/-8.42	-8.52/-8.45	-10.35/-5.62	-8.85/-8.68	-7.08/-8.28	-13.66/-13.13	-11.38/-9.23	-7.88/-9.19
Θ(120°)	-10.17/-8.24	-7.43/-6.21	-10.07/-12.05	-9.02/-6.20	-4.44/-5.51	-3.57/-2.86	-4.02/-3.33	-2.01/-1.63	-2.53/-3.30	-3.91/-5.32	-7.56/-10.47	-13.64/-3.54	0.02/-0.59	-2.57/-5.97	-6.04/-3.80	-4.27/-6.55	-14.17/-9.54	-6.66/-7.90	-12.69/-6.68	-9.97/-11.42	-8.79/-7.43	-8.83/-6.99	-11.51/-10.29	-9.95/-12.00
Θ(127.5°)	-10.48/-7.47	-7.91/-7.48	-8.03/-11.03	-10.56/-10.12	-7.44/-6.34	-1.97/-5.54	-4.77/-3.50	-1.30/-3.72	-4.08/-4.37	-8.63/-12.67	-8.44/-3.86	-2.56/-2.59	-2.00/-4.62	-6.12/-3.75	-4.14/-6.29	-13.55/-13.09	-7.20/-5.68	-6.13/-12.29	-10.97/-6.72	-8.68/-11.63	-8.45/-5.47	-7.93/-13.87	-11.98/-14.73	
Θ(135°)	-12.59/-7.24	-8.65/-9.93	-9.87/-9.17	-7.90/-7.62	-7.03/-6.40	-6.39/-6.13	-5.80/-4.69	-3.35/-2.69	-2.51/-3.35	-4.21/-6.57	-9.67/-13.63	-12.55/-9.20	-5.02/-2.92	-2.98/-2.66	-2.60/-5.73	-12.58/-7.88	-9.57/-7.89	-7.26/-12.45	-8.93/-8.81	-9.49/-9.05	-8.27/-11.21	-12.62/-8.22	-9.91/-9.08	-9.11/-12.07
Θ(142.5°)	-12.00/-9.61	-9.68/-10.36	-13.48/-8.14	-4.44/-4.51	-6.80/-9.25	-8.27/-6.40	-5.00/-3.34	-1.92/-1.41	-1.84/-2.70	-5.68/-9.41	-15.22/-11.72	-8.56/-5.53	-3.54/-3.58	-3.36/-5.38	-6.57/-6.44	-5.76/-6.91	-7.99/-9.50	-7.86/-10.40	-13.60/-11.47	-13.43/-14.53	-10.63/-8.69	-8.32/-8.97	-9.21/-10.18	-11.47/-11.73
Θ(150°)	-11.55/-14.86	-12.26/-9.12	-9.08/-12.56	-10.42/-8.37	-8.93/-8.21	-6.46/-5.31	-4.77/-4.91	-4.51/-3.89	-4.66/-4.90	-7.04/-11.75	-16.01/-14.78	-13.40/-10.36	-7.85/-5.85	-4.48/-5.47	-7.77/-8.11	-7.93/-9.56	-10.07/-8.38	-6.66/-5.95	-7.85/-9.81	-10.13/-9.03	-9.27/-10.97	-11.01/-11.31	-12.44/-15.88	-15.24/-11.51
Θ(157.5°)	-11.66/-10.20	-8.74/-7.94	-7.73/-8.83	-9.45/-8.15	-8.08/-7.96	-7.05/-6.33	-5.56/-5.26	-5.26/-5.19	-5.77/-7.07	-8.79/-10.83	-12.52/-15.74	-13.41/-10.92	-11.65/-12.13	-11.45/-10.62	-8.24/-7.24	-7.16/-7.60	-6.88/-6.55	-6.19/-6.30	-8.17/-12.11	-15.15/-14.10	-13.26/-13.07	-15.10/-15.75	-15.43/-12.40	-10.38/-11.06
Θ(165°)	-9.10/-9.61	-8.21/-7.75	-7.79/-9.25	-8.52/-6.15	-5.28/-6.47	-4.44/-3.78	-4.42/-4.94	-6.04/-6.58	-7.13/-8.01	-9.39/-10.20	-9.35/-9.71	-6.92/-6.87	-6.89/-7.08	-7.27/-6.98	-7.04/-6.92	-6.57/-7.31	-8.78/-11.58	-13.45/-15.41	-15.44/-15.55	-13.22/-12.97	-13.06/-11.83	-11.86/-13.12	-11.74/-9.87	
Θ(172.5°)	-8.96/-9.19	-9.06/-8.36	-8.56/-9.25	-9.05/-8.61	-8.51/-8.67	-7.94/-7.11	-7.04/-7.35	-7.64/-7.75	-8.16/-8.34	-8.05/-7.24	-6.60/-6.27	-5.90/-5.69	-6.54/-8.51	-10.07/-10.64	-10.66/-10.02	-9.11/-8.89	-9.92/-11.04	-10.84/-10.40	-9.63/-8.30	-7.97/-8.55	-9.26/-9.15	-10.05/-11.22	-9.93/-9.37	
Θ(180°)	-7.32/-7.55	-7.34/-6.68	-6.59/-6.78	-6.89/-6.85	-6.73/-6.78	-6.93/-7.20	-7.35/-7.43	-7.43/-7.48	-7.43/-7.46	-7.80/-8.52	-8.59/-8.09	-8.69/-11.16	-14.59/-14.19	-12.39/-12.17	-12.48/-11.99	-11.31/-11.21	-11.83/-13.26	-13.14/-11.34	-10.61/-10.84	-10.50/-10.18	-10.25/-10.61	-10.58/-10.90	-10.56/-9.54	-8.60/-7.60
Freq(Hz)	5.785GPol.	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°)	-3.63/-3.38	-3.50/-3.85	-3.84/-3.66	-3.78/-3.97	-3.72/-3.43	-3.82/-4.01	-4.44/-4.52	-4.37/-4.72	-4.95/-4.52	-4.20/-4.35	-4.71/-4.97	-4.63/-4.30	-4.05/-4.11	-4.30/-4.59	-4.87/-4.29	-4.28/-4.35	-4.42/-4.72	-5.24/-5.08	-4.09/-3.88	-4.82/-5.24	-4.76/-4.44	-4.41/-4.72	-4.28/-4.32	-4.05/-3.81
Θ(7.5°)	-4.70/-4.47	-4.35/-4.00	-3.41/-2.89	-3.02/-2.84	-2.36/-2.19	-2.23/-2.05	-2.28/-2.64	-2.88/-2.65	-2.69/-3.1	-3.06/-2.77	-2.90/-3.06	-3.06/-2.85	-2.52/-2.39	-2.26/-2.47	-2.63/-2.43	-2.76/-3.08	-3.67/-3.61	-3.65/-3.35	-3.17/-3.65	-4.09/-3.91	-3.97/-4.57	-5.05/-4.57	-5.96/-5.45	
Θ(15°)	-4.37/-3.84	-3.14/-2.80	-2.48/-2.06	-1.92/-1.76	-1.90/-2.06	-3.34/-3.62	-3.35/-3.67	-3.67/-3.59	-3.07/-2.35	-1.77/-1.41	-1.36/-2.80	-0.13/0.45	1.01/1.12	0.54/0.28	-0.49/-1.32	-1.78/-1.72	-1.14/-1.16	-1.01/-1.21	-1.19/-1.89	-2.67/-3.81	-4.69/-4.64	-4.34/-4.06	-4.88/-5.01	
Θ(22.5°)	-2.70/-2.33	-1.85/-2.15	-2.28/-1.85	-1.43/-1.06	-1.38/-2.38	-3.22/-3.62	-3.32/-2.68	-2.33/-2.61	-3.31/-3.37	-2.38/-0.87	0.09/0.51	1.08/1.96	2.92/3.57	3.98/3.96	3.47/2.81	2.21/1.70	1.09/0.46	-0.05/-0.80	-1.60/-2.04	-1.80/-1.63	-1.93/-1.93	-1.68/-1.01	-1.41/-2.26	-2.52/-2.53
Θ(30°)	-1.90/-0.91	0.31/0.16	-0.43/-0.73	-0.77/-0.58	-1.74/-3.47	-4.18/-3.78	-2.95/-2.75	-2.62/-2.55	-1.94/-1.60	-1.62/-1.26	-0.78/-0.27	1.19/2.80	3.67/4.06	4.84/4.80	4.26/3.79	3.47/3.13	2.05/1.43	0.60/-0.36	-0.82/-0.88	-0.69/-1.47	-2.14/-2.02	-1.86/-1.85	-0.83/-0.79	-1.40/-1.45
Θ(37.5°)	-1.62/-1.24	0.31/1.34	1.12/0.08	-0.42/-1.01	-2.08/-2.64	-3.14/-4.04	-5.10/-5.28	-3.84/-1.54	-3.81/-1.02	-1.94/-2.87	-3.47/-1.71	1.36/2.94	3.47/3.59	4.61/6.05	1.14/-1.41	0.54/0.28	-0.49/-1.32	-1.78/-1.72	-1.01/-1.21	-1.19/-1.89	-2.67/-3.81	-4.69/-4.64	-4.34/-4.06	-4.88/-5.01
Θ(45°)	-1.33/-0.63	0.08/1.48	1.60/0.39	-0.65/-1.80	-3.03/-2.09	-1.60/-2.94	-3.88/-4.25	-4.16/-3.20	-2.39/-3.76	-5.93/-5.01	-3.12/-1.17	1.45/3.89	4.62/4.52	3.87/4.79	5.58/5.36	4.83/3.26	1.02/0.69	0.37/-1.00	-2.28/-2.60	-1.57/-0.53	-1.64/-0.80	0.26/-0.73	-2.23/-4.27	-2.25/-0.71
Θ(52.5°)	0.41/0.38	-0.36/0.46	0.69/-1.20	-2.19/-2.48	-1.94/-0.96	-0.92/-1.26	-1.85/-1.43	-0.80/-3.20	-7.74/-8.03	-3.23/-0.05	0.89/0.66	2.36/-5.49	4.82/4.28	4.00/4.63	4.94/4.77	4.52/2.82	0.06/0.62	1.07/-0.91	-0.59/0.17	-0.90/-1.93	-3.98/-2.33	0.01/-0.56	-2.68/-6.47	-3.86/-2.10
Θ(60°)	0.74/0.62	-0.25/-0.28	-0.17/-2.86	-5.07/-2.55	-0.67/-0.97	-0.71/0.57	1.42/-1.20	-6.88/-5.72	-0.76/1.16	2.10/1.23	1.02/2.70	4.46/3.99	3.48/4.07	3.03/3.73	3.64/2.46	-0.39/-0.34	-0.36/-1.21	-1.11/-0.30	-1.57/-4.07	-5.32/-1.61	0.55/0.25	-2.02/-2.68	-2.10/0.56	
Θ(67.5°)	0.61/0.38	-0.47/-1.59	-2.35/-6.12	-6.47/-1.92	-0.56/-1.83	-0.11/1.33	0.60/1.88	2.61/-0.11	-5.02/-4.25	-5.81/2.27	1.41/1.06	0.40/1.61	3.01/2.45	2.59/3.79	3.22/2.54	2.63/1.46	-1.18/-1.94	-0.51/-1.06	-1.79/0.06	-2.09/-4.14	-2.22/0.36	0.93/0.57	-1.68/-1.40	0.26/1.47
Θ(75°)	-0.33/-1.55	-1.81/-3.52	-4.88/-10.68	-8.70/-2.12	-1.17/-2.96	0.28/1.37	0.63/2.12	2.96/0.60	-3.58/-4.39	-1.58/0.95	0.64/0.74	-0.14/0.04	2.10/1.76	0.99/2.83	2.33/1.78	1.66/0.72	-2.24/-3.91	-0.48/-0.83	-2.74/-0.00	-2.56/-3.36	-0.55/-1.27	0.62/-1.63	-3.28/-1.71	1.03/0.76
Θ(82.5°)	-1.72/-3.55	-4.16/-3.57	-6.38/-15.48	-10.43/-3.74	-2.40/-3.75	-0.82/0.56	3.31/1.92	2.55/-0.15	-4.00/-4.87	-2.35/-0.36	-0.36/-0.25	-1.32/-0.87	1.76/1.67	-0.09/0.86	1.75/1.22	-0.34/-0.19	-3.20/-4.29	-0.66/-1.27	-2.88/-0.65	-3.59/-2.40	-1.40/0.73	-0.33/-4.39	-5.18/-2.57	0.10/-1.23
Θ(90°)	-4.12/-5.85	-4.68/-6.33	-7.43/-14.16	-13.40/-5.51	-3.10/-4.48	-1.78/-0.06	-0.36/-1.09	1.85/0.33	-3.15/-5.50	-3.81/-1.51	-0.62/-1.19	-3.22/-1.42	1.43/0.26	-0.60/0.30	-0.07/0.41	-1.00/-0.99	-3.35/-6.13	-2.59/-3.27	-5.31/-3.01	-4.40/-2.39	-3.31/-1.58	-1.72/-5.97	-7.02/-5.60	-1.57/-3.37
Θ(97.5°)	-6.56/-7.47	-7.70/-8.80	-7.47/-10.09	-1.32/-8.41	-4.20/-4.71	-3.58/-1.16	-4.40/-4.84	1.19/0.49	-3.48/-6.10	-4.60/-2.38	-1.75/-2.65	-4.82/-3.18	0.91/-1.04	-1.16/-1.35	-1.58/-2.14	-2.34/-3.24	-5.37/-8.33	-5.02/-6.79	-7.98/-5.95	-6.12/-2.98	-5.89/-5.09	-4.40/-4.81	-7.07/-8.07	-4.64/-5.96
Θ(105°)	-10.18/-10.23	-9.14/-10.80	-8.95/-9.38	-10.64/-9.30	-6.35/-4.16	-3.78/-1.92	-1.21/0.29	0.32/-1.63	-3.90/-5.42	-5.58/-4.17	-2.68/-3.78	6.71/-2.15	-0.46/-0.46	-1.39/-1.51	-2.62/-4.01	-4.79/-4.40	-5.59/-12.72	-10.19/-8.49	-12.16/-9.79	-9.66/-4.46	-4.99/-10.99	-8.83/-8.93	-9.06/-6.31	-5.36/-7.89
Θ(112.5°)	-12.36/-11.97	-14.49/-9.15	-8.37/-8.65	-10.73/-8.65	-7.60/-6.07	-3.91/-2.62	-1.87/-0.11	-0.37/-2.39	-3.97/-6.03	-4.32/-2.87	-2.72/-5.98	-10.88/-3.92	-2.33/-2.71	-2.53/-2.30	-2.86/-6.47	-5.11/-5.04	-8.24/-10.29	-9.80/-9.73	-8.90/-4.63	-7.37/-8.75	-8.25/-11.69	-14.38/-14.60	-11.33/-8.41	-8.73/-11.15
Θ(120°)	-11.38/-11.80	-10.27/-7.98	-10.83/-10.81	-10.66/-8.00	-5.81/-6.01	-4.26/-3.82	-3.25/-1.72	-1.22/-2.14	-4.18/-6.08	-5.51/-4.15	-3.56/-5.94	-10.61/-5.44	-3.11/-1.89	-2.32/-3.57	-7.22/-6.79	-3.30/-5.51	-13.00/-10.95	-6.60/-8.25	-11.25/-9.86					



Antenna Pattern of 2.4GHz(2TX) and 5GHz(4TX)

Appendix E

Θ(120°)	-13.47/-11.40	-13.35/-13.55	-13.80/-13.93	-15.56/-13.89	-13.79/-12.99	-10.99/-9.70	-9.67/-10.71	-12.17/-13.55	-12.46/-11.93	-11.07/-10.74	-10.57/-11.13	-11.69/-11.29	-10.58/-12.08	-11.55/-9.21	-10.63/-10.34	-12.26/-11.22	-9.03/-7.22	-4.49/-6.39	-8.15/-12.39	-14.85/-10.77	-8.74/-6.15	-8.39/-11.62	-11.33/-12.63	-11.82/-10.18
Θ(127.5°)	-12.96/-14.86	-15.06/-14.21	-11.41/-10.93	-11.59/-15.25	-14.13/-11.67	-10.93/-11.27	-12.93/-10.43	-13.02/-12.93	-13.19/-14.96	-13.82/-13.58	-15.15/-13.19	-12.54/-11.93	-11.93/-13.06	-13.36/-10.89	-12.08/-14.53	-14.36/-14.29	-10.56/-8.10	-8.86/-8.03	-7.65/-13.07	-14.54/-8.26	-8.83/-12.43	-14.79/-15.28	-14.58/-14.24	-13.77/-11.46
Θ(135°)	-14.16/-13.78	-15.75/-12.65	-12.73/-15.36	-15.74/-14.91	-14.75/-14.91	-13.76/-12.83	-13.91/-12.77	-13.49/-14.40	-14.15/-13.03	-13.60/-15.84	-14.59/-12.53	-12.87/-14.58	-14.56/-13.17	-15.22/-13.39	-14.23/-13.35	-14.23/-10.15	-10.18/-13.37	-11.54/-14.01	-14.87/-15.18	-12.22/-15.41	-15.80/-15.12	-15.80/-15.12	-12.31/-11.07	
Θ(142.5°)	-13.48/-13.41	-14.49/-14.16	-14.17/-12.08	-10.63/-10.22	-13.56/-14.98	-14.17/-14.11	-14.60/-16.00	-15.66/-14.33	-14.98/-14.65	-14.81/-13.83	-12.01/-12.02	-13.29/-14.12	-14.03/-13.00	-15.82/-14.68	-15.36/-15.73	-14.15/-13.83	-13.63/-12.36	-14.41/-13.36	-11.44/-12.89	-13.91/-13.35	-10.84/-11.57	-13.42/-13.94	-14.71/-14.28	-13.54/-13.29
Θ(150°)	-15.71/-14.86	-12.49/-11.06	-10.99/-13.61	-15.02/-14.76	-14.34/-14.03	-13.63/-14.93	-15.16/-15.38	-15.70/-14.83	-14.00/-14.82	-15.20/-14.62	-13.82/-12.86	-12.28/-12.60	-15.03/-15.74	-14.88/-15.08	-15.43/-14.95	-15.26/-15.46	-15.31/-15.63	-13.36/-12.63	-14.05/-15.72	-14.84/-15.12	-15.60/-14.97	-15.78/-14.99	-15.39/-15.34	-15.31/-15.07
Θ(157.5°)	-13.96/-12.90	-13.08/-13.92	-14.57/-15.42	-15.82/-15.63	-15.02/-14.19	-15.27/-15.36	-15.45/-15.41	-14.64/-14.93	-15.98/-15.17	-15.49/-14.99	-16.12/-15.63	-14.34/-13.80	-15.21/-15.01	-16.01/-15.23	-14.54/-13.45	-15.53/-15.74	-14.89/-15.16	-14.67/-14.81	-14.83/-12.99	-13.01/-13.43	-14.24/-13.67			
Θ(165°)	-15.40/-15.56	-15.59/-15.37	-14.45/-14.02	-15.07/-15.43	-14.58/-15.53	-15.64/-14.77	-15.11/-15.24	-14.84/-15.09	-15.34/-15.85	-13.89/-12.98	-14.15/-14.95	-14.98/-15.00	-16.17/-15.30	-15.44/-15.30	-15.20/-15.42	-15.57/-14.62	-14.77/-15.63	-15.12/-15.58	-15.64/-15.02	-14.97/-15.54	-15.20/-15.49	-15.67/-13.57	-12.01/-13.40	-15.55/-14.77
Θ(172.5°)	-14.81/-15.84	-15.80/-15.52	-15.30/-15.51	-15.65/-15.02	-15.30/-15.14	-15.25/-14.64	-13.63/-13.28	-13.49/-13.82	-14.82/-15.58	-15.22/-14.91	-15.81/-15.04	-14.72/-14.99	-14.79/-14.54	-14.22/-15.62	-15.56/-15.30	-14.55/-14.38	-14.54/-15.55	-15.32/-15.35	-15.06/-15.51	-14.58/-15.34	-15.39/-15.24	-15.35/-15.64	-15.13/-15.25	-15.19/-15.45
Θ(180°)	-14.66/-15.71	-15.14/-15.15	-15.18/-15.60	-15.27/-14.67	-14.58/-14.99	-14.71/-14.43	-14.64/-13.88	-13.42/-13.45	-13.51/-13.04	-12.99/-13.63	-13.65/-14.28	-14.49/-14.99	-13.40/-14.13	-13.40/-12.72	-12.34/-13.20	-13.14/-14.09	-14.24/-14.94	-15.38/-14.29	-13.76/-13.89	-14.62/-14.72	-15.03/-14.15	-15.07/-15.34	-15.35/-15.26	-15.28/-15.42
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°)	-6.05/-5.79	-5.85/-5.60	-5.53/-5.87	-6.04/-5.87	-5.41/-5.00	-4.78/-5.09	-5.38/-5.57	-6.22/-5.84	-5.84/-5.42	-5.42/-5.46	-5.47/-5.63	-6.22/-6.16	-7.19/-6.97	-6.42/-6.16	-6.23/-6.83	-7.14/-7.48	-7.66/-7.04	-7.02/-6.69	-6.43/-6.15	-6.27/-6.28	-5.98/-5.81	-5.49/-5.25	-6.46/-6.46	
Θ(7.5°)	-8.67/-9.45	-10.02/-11.02	-10.99/-11.17	-10.92/-9.51	-8.16/-7.70	-6.81/-7.22	-6.92/-6.75	-6.14/-5.78	-4.98/-4.21	-3.78/-3.10	-2.58/-2.18	-1.93/-1.71	-1.73/-1.73	-1.88/-1.96	-2.59/-3.43	-4.42/-5.23	-6.19/-6.90	-7.08/-7.45	-7.32/-7.62	-7.43/-7.28	-7.12/-7.16	-7.43/-7.33	-6.85/-7.10	-7.51/-8.42
Θ(15°)	-3.42/-0.43	-4.86/-5.71	-6.82/-8.34	-9.78/-9.32	-7.81/-6.88	-6.30/-6.36	-6.18/-5.87	-4.94/-4.16	-3.47/-3.30	-3.04/-2.76	-2.31/-1.77	-1.43/-1.21	-1.29/-1.63	-1.54/-1.70	-2.14/-2.86	-3.75/-4.36	-5.50/-6.27	-7.10/-7.03	-6.12/-5.65	-5.57/-4.91	-4.82/-5.12	-5.07/-4.77	-4.05/-3.69	-3.11/-3.01
Θ(22.5°)	-1.14/-1.55	-2.33/-3.35	-4.43/-5.10	-6.04/-6.59	-6.32/-5.65	-4.50/-3.49	-2.76/-2.48	-2.01/-1.91	-1.96/-2.28	-2.59/-2.49	-1.84/-0.96	-0.50/-0.74	-1.51/-1.84	-1.50/-0.72	-0.55/-0.90	-1.99/-2.95	-4.60/-6.49	-7.43/-7.53	-6.97/-6.35	-5.35/-4.47	-4.05/-3.42	-2.40/-1.41	-0.91/-1.37	-1.59/-1.37
Θ(30°)	-2.75/-2.84	-2.86/-3.62	-4.32/-4.37	-4.31/-3.79	-3.32/-2.46	-1.36/-0.11	1.26/-1.64	1.240/2.28	-0.94/-1.88	-1.93/-1.41	-0.03/-1.33	1.93/-1.36	0.67/-0.02	-0.72/-1.23	-1.46/-1.62	-2.00/-2.74	-4.90/-7.51	-9.38/-9.14	-6.86/-4.73	-3.31/-3.19	-2.80/-2.83	-2.13/-0.72	0.69/0.84	0.02/-1.65
Θ(37.5°)	-4.45/-2.77	-1.04/-1.67	-2.86/-3.66	-3.46/-2.25	-1.02/-0.85	-0.36/-0.20	1.71/-2.57	2.45/-1.79	0.63/-0.28	-0.40/-0.55	2.28/-3.79	4.10/-3.77	2.69/-1.32	0.72/0.48	0.71/-1.10	0.44/-0.48	-0.12/-1.69	-3.01/-3.56	-2.39/-1.34	-1.14/-1.15	-1.26/-1.12	-1.18/-1.49	-1.98/-1.97	-2.11/-8.66
Θ(45°)	-4.48/-2.56	-1.27/-1.49	-2.59/-3.95	-3.21/-0.69	0.68/0.86	0.80/0.85	1.52/-2.28	2.67/-2.62	2.48/-0.05	1.85/-2.33	3.30/-4.66	5.25/-0.55	4.12/-2.64	2.02/-2.47	3.16/-3.37	2.41/-1.65	1.22/-1.99	-0.25/-1.16	-0.99/-0.44	0.20/-1.20	2.59/-2.74	2.55/-2.74	1.70/-2.19	
Θ(52.5°)	-1.14/-0.60	-0.80/-3.09	-5.10/-5.97	-4.10/-0.63	1.73/-2.96	3.48/-3.45	2.70/-2.86	3.49/-3.58	3.71/-3.94	4.05/-3.78	3.96/-5.06	5.71/-5.54	4.75/-3.71	3.18/-3.70	4.17/-3.88	2.56/-1.83	1.48/-0.87	-0.09/-0.72	-0.76/-0.09	0.28/0.50	1.23/-2.42	2.54/-2.01	1.31/-0.10	-2.98/-3.35
Θ(60°)	2.02/-1.98	0.10/-2.12	-1.85/-0.52	-0.48/0.54	2.98/-4.00	4.72/-5.00	4.34/-3.77	3.73/-3.54	3.70/-3.97	4.18/-3.88	3.43/-3.64	4.12/-4.75	2.89/-4.16	4.37/-3.69	2.43/-1.95	2.13/-2.53	1.69/-0.46	-0.85/-0.46	-0.11/-1.52	2.58/-2.49	2.47/-2.14	2.62/-3.25	1.75/-2.90	
Θ(67.5°)	2.28/-2.78	1.05/-2.02	0.33/-1.74	1.68/0.81	2.53/-2.04	4.65/-5.20	4.63/-4.15	3.04/-2.77	3.23/-3.48	3.78/-3.17	2.53/-3.06	2.95/-3.24	3.78/-4.18	3.58/-2.94	2.60/-3.63	1.45/-3.33	2.27/-1.98	2.27/-2.85	0.98/-2.24	0.68/0.18	0.32/-1.98	2.55/-2.74	3.35/-3.73	2.02/-1.29
Θ(75°)	0.82/-1.50	1.08/-0.05	-0.13/-1.25	1.43/-0.08	2.35/-3.30	3.17/-3.67	3.54/-2.04	1.23/-0.88	2.05/-2.09	2.74/-2.07	1.06/-1.59	2.10/-2.53	2.35/-0.47	0.71/-2.34	2.92/-1.98	1.39/-1.38	2.22/-3.18	3.82/-2.81	0.10/-0.02	-0.09/-2.58	3.39/-2.45	2.12/-2.19	2.79/-3.64	2.02/-2.01
Θ(82.5°)	-2.35/-0.47	-0.50/-0.89	-1.84/-0.64	0.13/-1.68	0.93/-2.29	1.32/-1.60	1.75/-2.06	-0.67/-1.36	0.16/0.48	0.75/-0.05	-1.35/-0.20	0.87/-0.29	-0.22/-2.23	-1.93/-0.63	1.07/-0.16	-0.13/-0.57	2.14/-0.35	3.74/-2.75	-0.69/-0.70	-0.22/-0.31	3.09/-1.76	0.77/-0.82	1.32/-1.72	0.57/-1.49
Θ(90°)	-4.76/-2.45	-3.37/-3.53	-4.65/-3.15	-1.28/-4.20	-1.81/-0.00	-0.92/-0.65	0.19/-1.93	-2.87/-3.56	-1.95/-1.31	-1.55/-1.94	-3.11/-2.23	-0.98/-1.40	-2.05/-3.84	-4.55/-1.16	-0.64/-1.92	-2.01/-1.67	0.36/-2.20	3.14/-2.02	-1.93/-2.79	-3.36/-1.17	1.99/-0.32	-0.94/-2.01	-0.99/-0.60	-0.85/-2.35
Θ(97.5°)	-7.77/-5.55	-6.32/-4.70	-5.45/-5.76	-7.32/-5.64	-4.56/-2.49	-3.54/-4.20	-2.24/-3.83	-4.55/-5.38	-4.33/-3.79	-4.99/-4.81	-5.98/-4.34	-2.58/-4.42	-4.85/-6.27	-7.27/-3.03	-2.58/-3.11	-5.31/-3.81	-2.24/-0.64	0.83/-0.79	-4.51/-5.15	-6.44/-1.59	-0.59/-2.97	-4.51/-5.27	-4.15/-3.13	-2.97/-3.96
Θ(105°)	-7.17/-8.23	-9.50/-9.19	-9.28/-8.99	-7.44/-8.13	-8.48/-5.96	-5.96/-6.85	-4.59/-4.41	-6.13/-6.94	-7.78/-6.20	-6.68/-6.85	-7.73/-6.37	-4.65/-5.82	-7.98/-8.04	-7.93/-8.43	-3.01/-4.69	-8.33/-6.65	-4.85/-3.65	-2.26/-4.34	-8.13/-9.00	-12.16/-7.65	-5.65/-5.39	-8.52/-8.80	-5.93/-4.07	-3.74/-5.11
Θ(112.5°)	-9.94/-9.71	-11.47/-11.08	-7.32/-7.92	-11.30/-9.22	-8.33/-7.80	-7.16/-8.80	-7.83/-6.34	-7.19/-8.93	-10.30/-7.55	-7.47/-8.20	-8.43/-10.32	-7.85/-8.52	-10.36/-9.73	-8.38/-6.58	-5.13/-6.82	-11.23/-7.87	-4.97/-4.15	-3.61/-5.68	-9.27/-12.21	-14.13/-9.67	-7.32/-5.81	-9.12/-9.84	-12.62/-8.72	-5.61/-7.08
Θ(120°)	-10.30/-8.49	-15.53/-14.78	-14.02/-11.58	-13.22/-12.94	-11.92/-11.63	-8.92/-9.40	-10.44/-10.19	-11.76/-11.62	-13.99/-11.67	-10.71/-10.30	-10.00/-11.51	-11.41/-9.06	-10.99/-11.19	-11.13/-8.76	-6.89/-10.32	-12.57/-10.82	-6.68/-4.35	-3.42/-3.88	-6.60/-14.17	-15.19/-9.04	-10.98/-6.39	-2.27/-9.85	-12.49/-13.04	-9.38/-7.90
Θ(127.5°)	-11.56/-13.61	-13.45/-12.13	-10.09/-9.31	-11.26/-14.23	-12.52/-13.87	-12.49/-13.10	-11.72/-11.71	-12.70/-12.81	-11.44/-10.51	-10.29/-9.94	-13.11/-13.35	-11.63/-11.06	-9.63/-11.17	-11.56/-10.69	-7.84/-11.62	-13.07/-13.36	-9.82/-7.24	-5.14/-5.35	-7.03/-13.07	-12.90/-8.09	-8.59/-14.87	-12.86/-14.56	-10.16/-13.36	-12.19/-9.43
Θ(135°)	-11.86/-10.61	-12.71/-14.16	-15.59/-15.29	-14.71/-13.26	-13.74/-14.36	-14.50/-12.08	-10.67/-9.59	-10.62/-11.41	-11.04/-13.89	-12.26/-14.49	-15.46/-12.96	-12.22/-13.32	-12.07/-14.53	-13.99/-12.05	-9.28/-12.23	-12.09/-14.69	-10.79/-14.06	-7.77/-10.69	-10.42/-13.27	-14.89/-11.12	-9.77/-15.38	-15.67/-13.79	-14.70/-10.73	-13.93/-15.38
Θ(142.5°)	-10.11/-12.36	-15.24/-14.12	-12.92/-11.85	-11.77/-12.32	-13.42/-12.83	-10.42/-12.79	-13.89/-14.52	-14.97/-15.77	-15.61/-15.50	-15.29/-14.70	-13.83/-15.40	-12.57/-13.87	-15.04/-12.77	-13.84/-15.44	-13.26/-15.29	-15.25/-11.32	-11.21/-9.77	-10.63/-12.70	-11.11/-10.81	-9.98/-10.76	-9.63/-9.60	-11.51/-13.05	-12.24/-12.46	-12.58/-11.18
Θ(150°)	-14.69/-13.45	-12.26/-12.01	-14.44/-15.23	-12.42/-13.93	-15.70/-13.70	-14.29/-15.13	-14.62/-14.78	-14.96/-14.29	-12.89/-14.17	-15.84/-15.15	-14.64/-15.27	-14.65/-12.68	-12.74/-15.10	-15.40/-15.38	-13.01/-14.93	-13.05/-15.14	-12.62/-12.09	-12.90/-14.22	-15.22/-14.86	-15.57/-14.47	-13.08/-15.24	-15.93/-15.30	-14.04/-10.69	-10.63/-13.77
Θ(157.5°)	-11.67/-11.92	-15.40/-15.11	-15.05/-14.43	-12.04/-13.40	-15.53/-15.23	-13.44/-11.89	-10.70/-10.88	-12.27/-14.75	-15.40/-13.64	-11.59/-12.39	-14.29/-15.06	-15.06/-15.27	-14.71/-13.42	-14.03/-15.47	-13.72/-10.80	-10.96/-15.04	-15.37/-14.64	-14.74/-15.17	-14.59/-14.82	-15.70/-15.83	-15.02/-14.53	-15.26/-15.13	-15.61/-12.94	-15.32/-13.89
Θ(165°)	-15.25/-13.42	-11.32/-9.84	-9.80/-11.16	-12.21/-12.60	-13.69/-15.57	-15.09/-16.07	-15.68/-15.																	

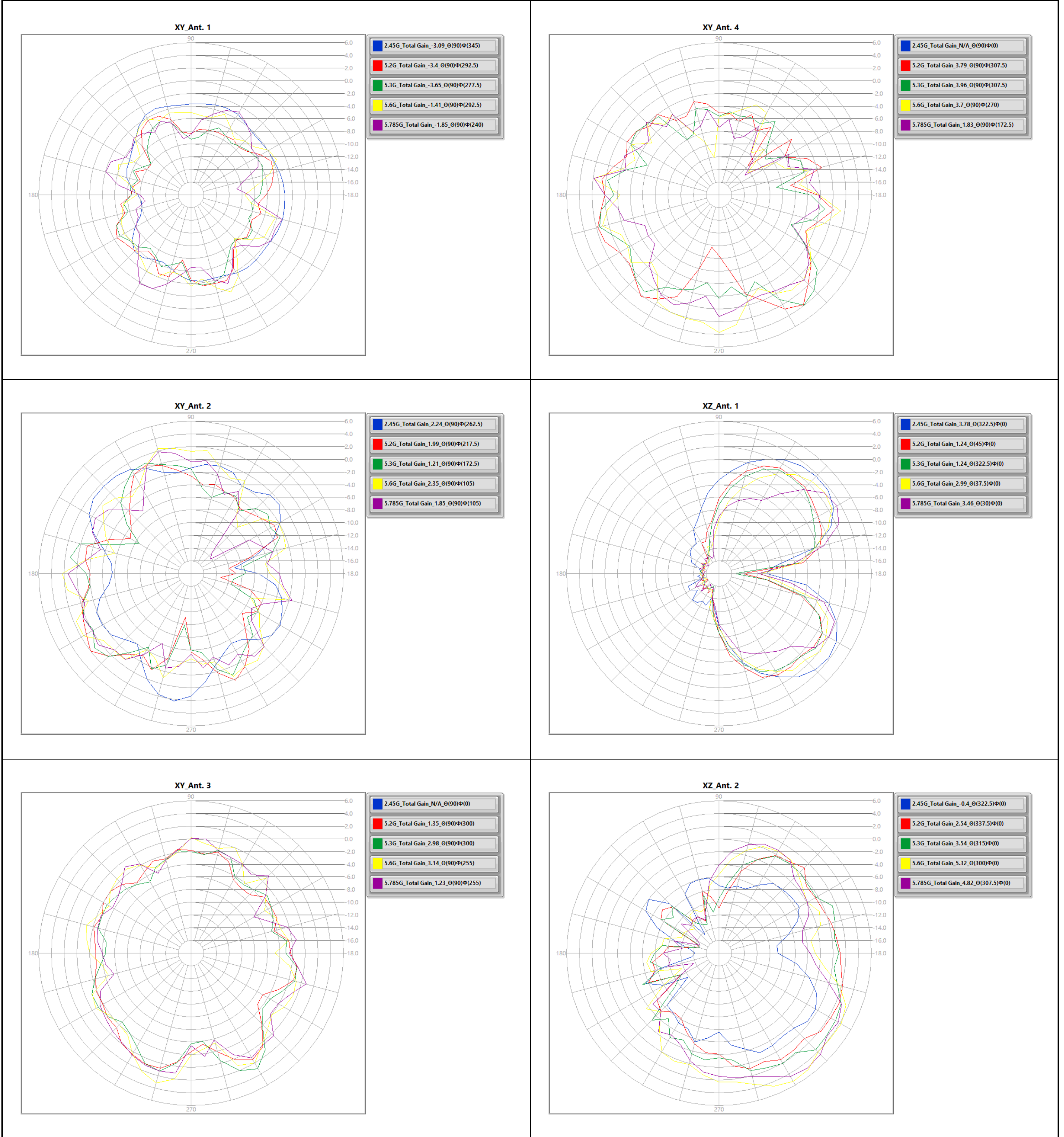


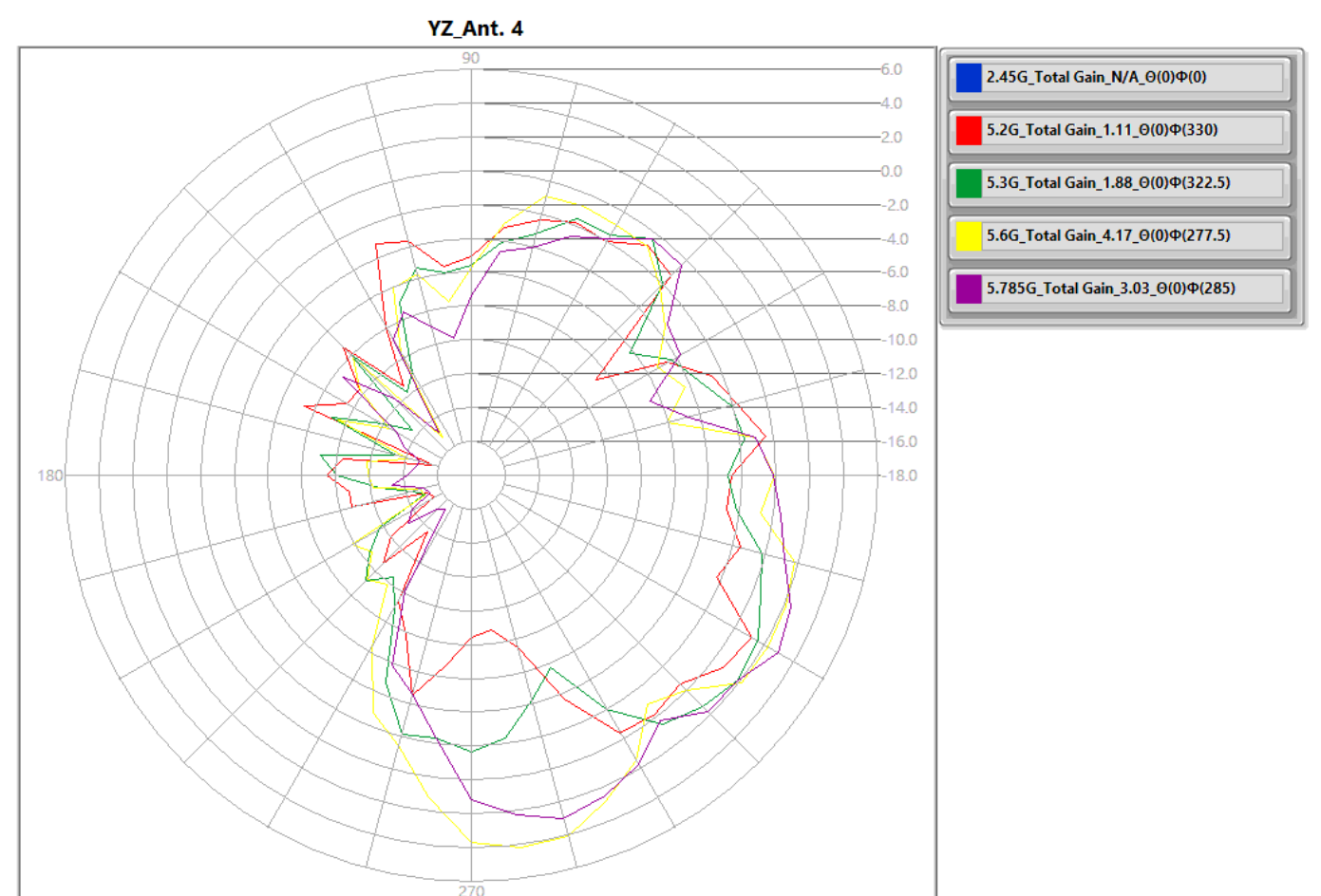
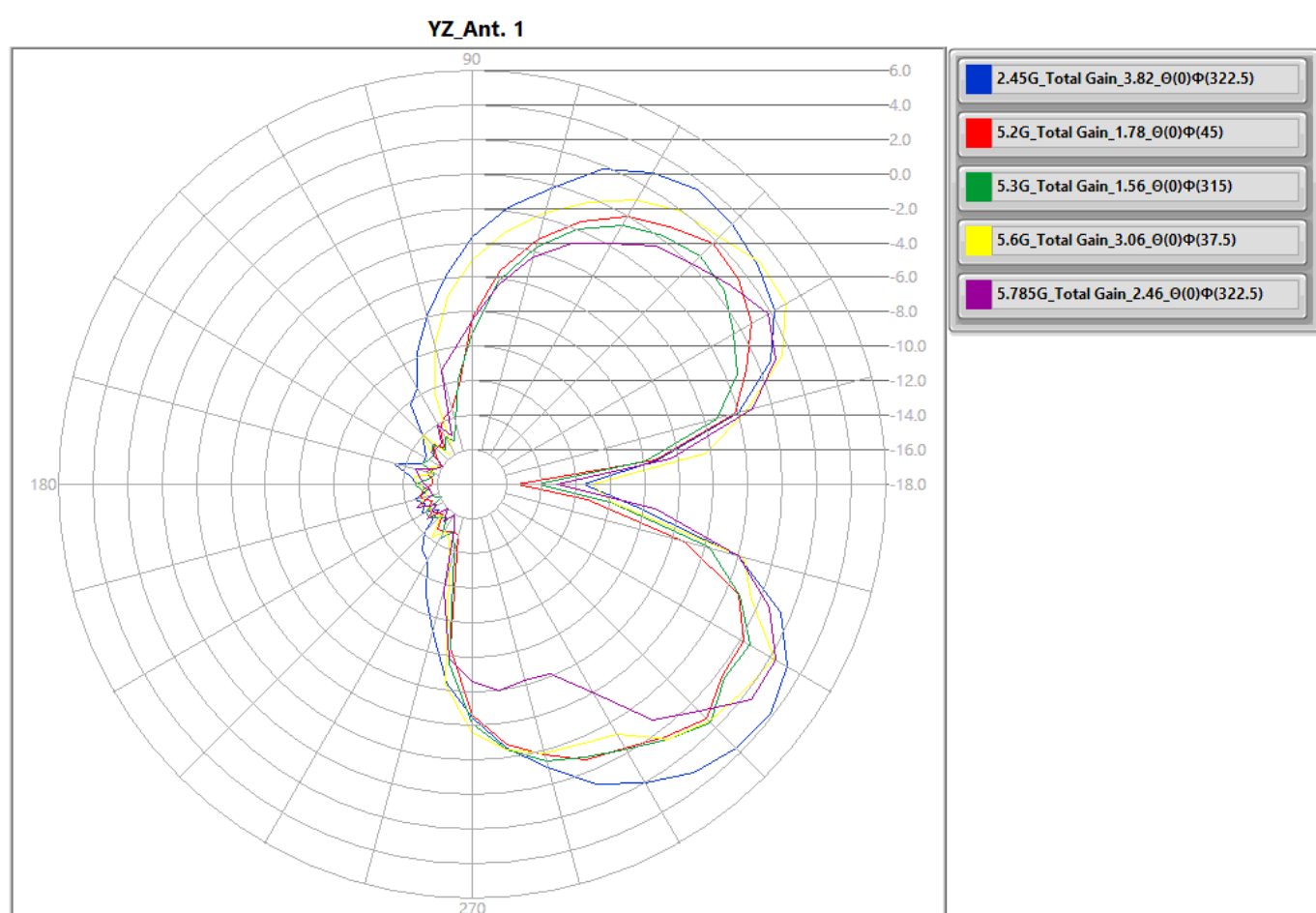
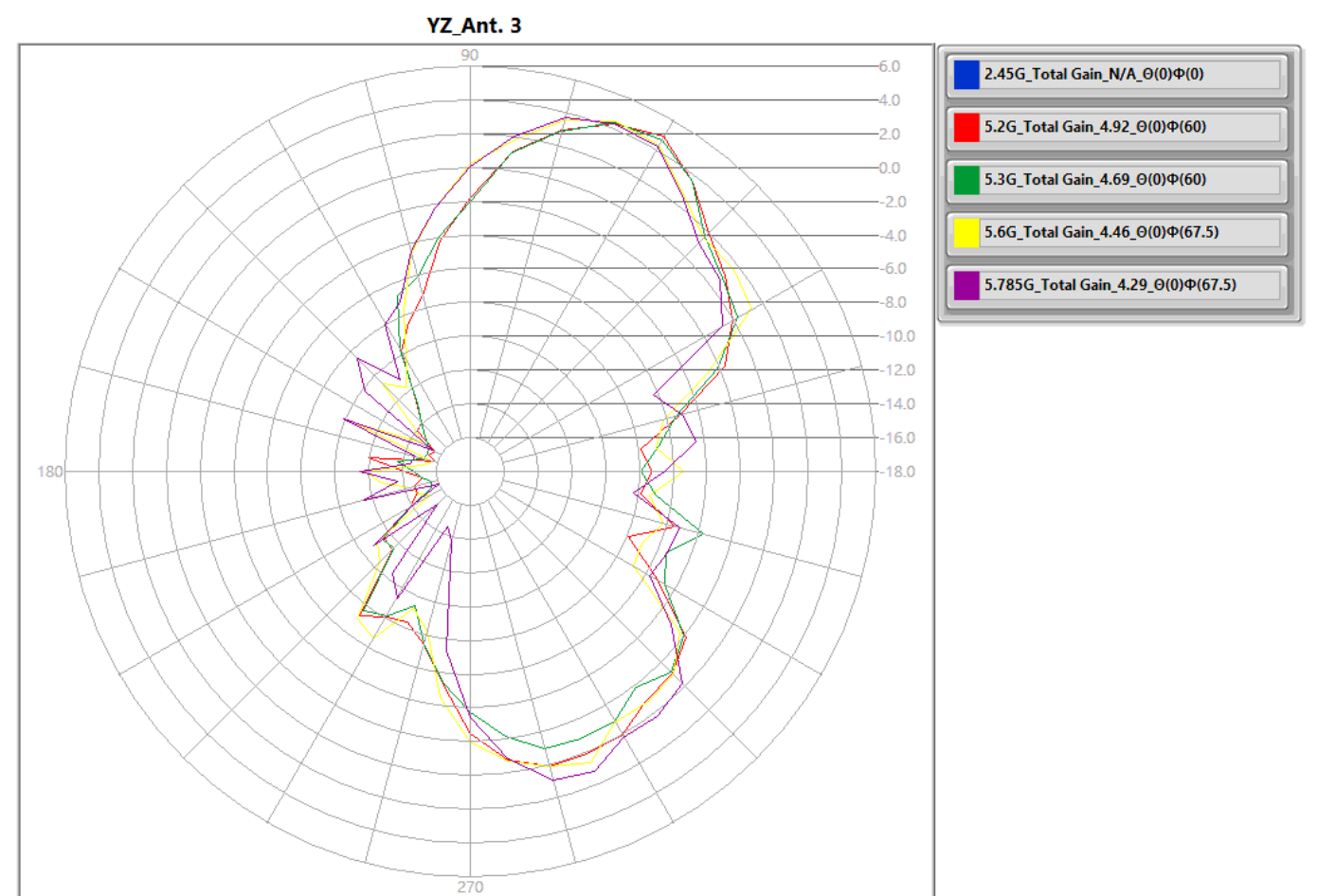
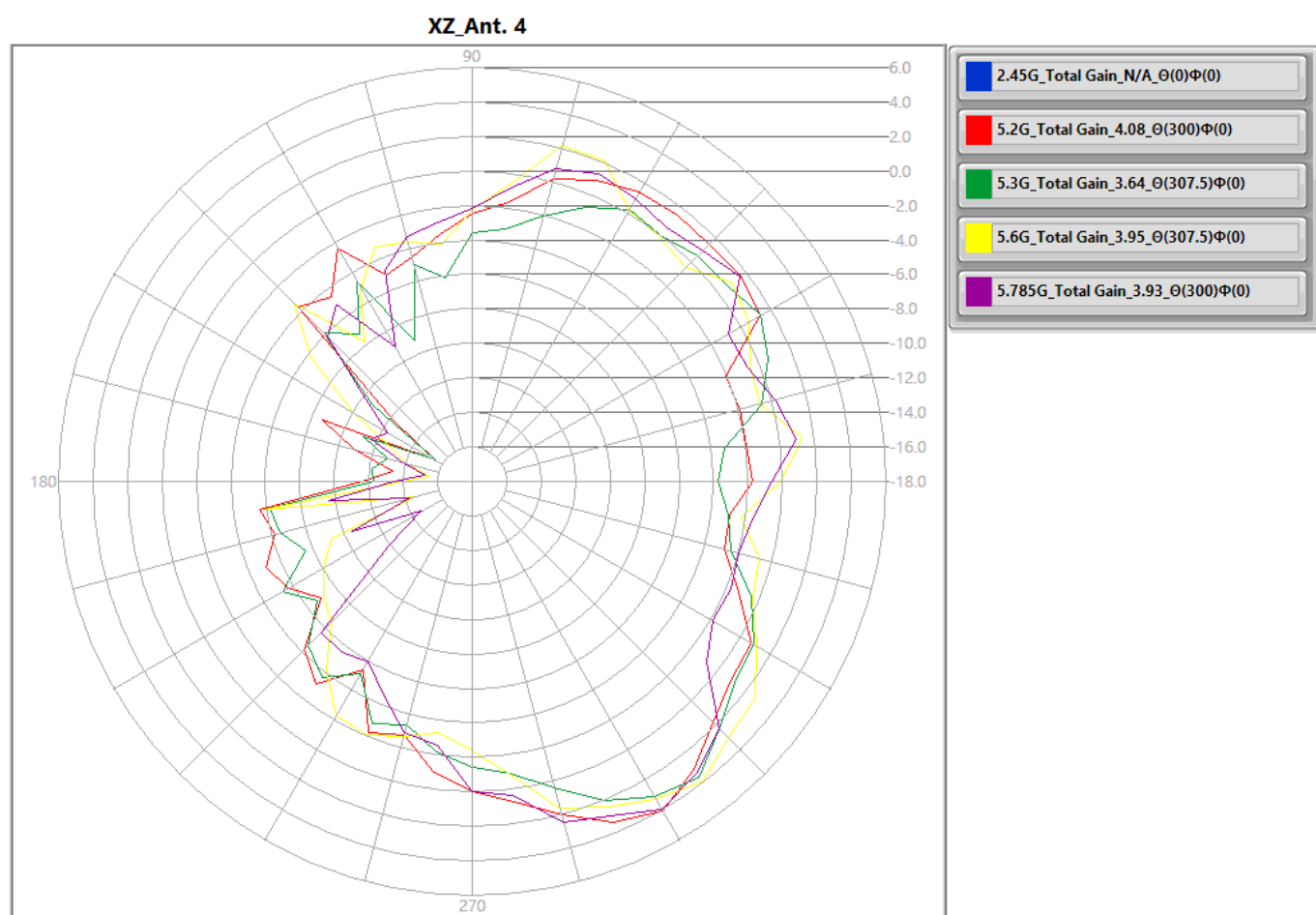
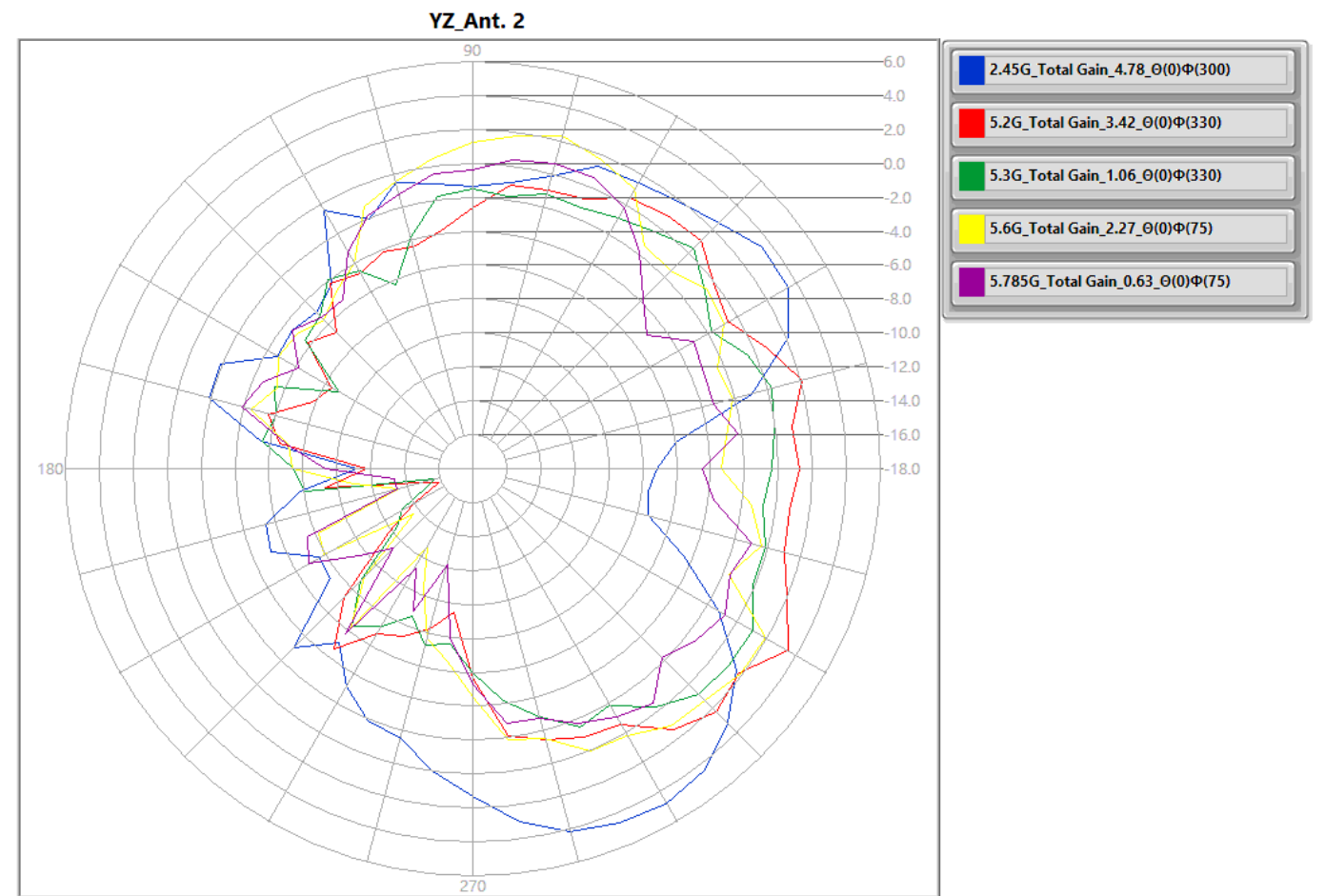
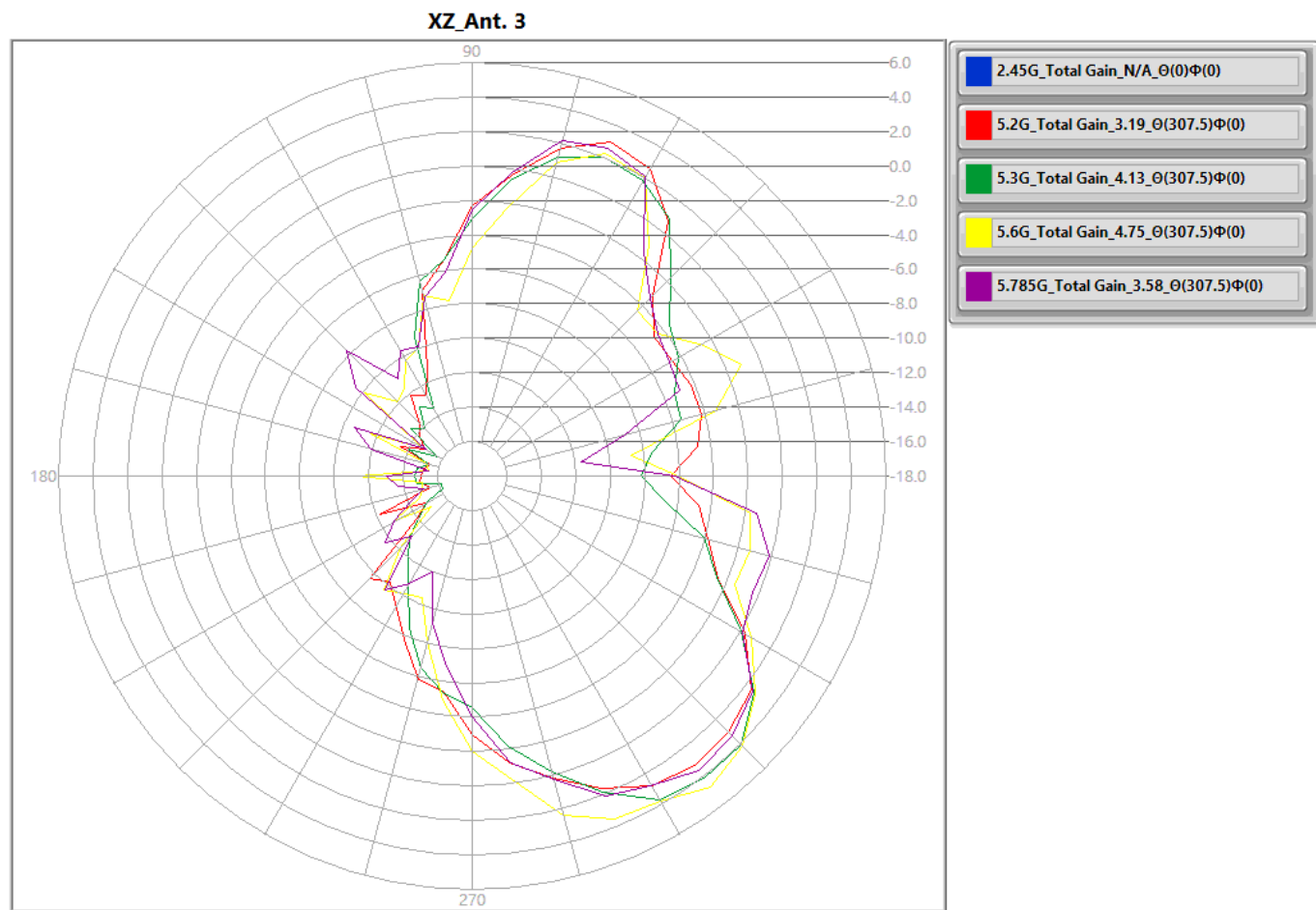
Antenna Pattern of 2.4GHz(2TX) and 5GHz(4TX)

Appendix E

Θ(172.5°)	-13.39/-9.81	-9.66/-9.74	-9.04/-8.61	-9.72/-11.00	-9.87/-9.83	-9.52/-9.98	-10.37/-11.08	-10.17/-10.50	-10.53/-11.01	-10.98/-10.74	-9.28/-7.66	-6.63/-5.81	-5.56/-5.98	-6.51/-7.15	-7.15/-6.99	-6.56/-6.39	-6.57/-7.55	-9.51/-10.47	-10.72/-12.24	-13.44/-13.59	-13.95/-14.75	-14.29/-15.23	-14.89/-13.26	-13.34/-15.36
Θ(180°)	-11.64/-11.76	-11.76/-11.97	-11.90/-12.92	-12.66/-12.27	-10.91/-9.88	-9.42/-9.61	-9.45/-9.17	-8.86/-8.97	-9.53/-10.54	-11.62/-12.37	-12.18/-11.24	-10.59/-10.33	-10.28/-10.80	-11.20/-10.57	-10.07/-10.60	-11.40/-11.92	-12.49/-13.42	-13.32/-11.37	-11.63/-13.63	-14.48/-15.38	-14.51/-14.86	-13.46/-13.00	-12.36/-11.78	-11.37/-12.10
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°)	-3.72/-3.75	-3.81/-3.88	-4.12/-3.93	-4.20/-4.52	-4.01/-3.73	-3.74/-3.56	-2.85/-2.64	-2.28/-2.49	-2.45/-2.60	-2.92/-3.29	-3.14/-3.23	-3.48/-3.85	-3.77/-3.82	-4.09/-4.38	-4.78/-4.30	-3.53/-3.49	-3.83/-3.60	-3.11/-2.95	-2.93/-2.67	-2.51/-3.02	-2.96/-3.80	-4.12/-4.04	-3.94/-3.80	-4.09/-3.98
Θ(7.5°)	-3.24/-3.85	-3.34/-3.55	-3.99/-3.90	-3.70/-3.44	-2.80/-2.25	-2.12/-2.29	-1.72/-0.95	-0.51/-0.49	-0.98/-1.26	-1.81/-2.00	-2.37/-2.74	-3.34/-3.47	-3.00/-3.05	-3.60/-3.91	-4.34/-4.34	-3.31/-2.66	-2.84/-3.07	-2.62/-2.30	-2.20/-2.53	-2.24/-1.87	-1.50/-1.44	-1.87/-2.22	-2.10/-2.09	-2.47/-2.59
Θ(15°)	-0.65/-1.30	-1.87/-2.20	-2.00/-2.04	-2.48/-2.62	-2.55/-1.92	-1.87/-2.05	-2.11/-1.66	-0.85/-0.71	-0.73/-0.78	-0.68/-1.22	-1.43/-2.32	-2.95/-2.94	-2.45/-1.95	-2.01/-2.20	-2.69/-2.59	-2.03/-1.90	-1.71/-1.54	-1.23/-0.56	-0.25/-0.48	-0.48/-0.11	0.05/-0.02	-0.34/-0.21	0.16/-0.40	0.04/-0.08
Θ(22.5°)	0.60/-0.18	-1.27/-1.96	-2.69/-3.41	-4.21/-4.92	-4.70/-4.29	-3.51/-3.38	-3.44/-3.25	-2.74/-2.39	-1.51/-0.57	-0.08/-0.18	-0.15/-0.34	-0.58/-0.41	-0.46/-0.50	-0.38/-0.53	-1.08/-1.74	-1.73/-0.95	-0.63/-0.15	0.33/-0.48	0.53/-0.57	0.92/-1.20	1.32/-1.11	0.28/-0.05	0.54/-1.10	1.55/-1.03
Θ(30°)	1.28/-0.46	0.25/-0.33	-1.80/-3.75	-6.63/-9.77	-10.31/-8.09	-7.17/-6.23	-4.33/-3.06	-2.87/-3.07	-2.31/-1.51	-0.70/-0.23	-0.01/-0.06	0.86/-0.97	0.89/-1.05	0.84/-0.55	-0.16/-0.68	-0.98/-0.71	0.14/-1.55	1.58/-1.57	1.53/-1.04	-0.02/-0.31	1.06/-2.45	2.45/-2.27	2.59/-3.04	3.17/-2.43
Θ(37.5°)	0.63/-0.47	1.24/-0.32	-2.36/-5.52	-7.86/-9.46	-10.71/-9.58	-7.56/-6.66	-6.19/-4.17	-2.56/-2.31	-2.35/-1.36	-0.44/-0.29	-0.79/-0.20	1.03/-1.21	1.16/-1.82	1.98/-0.67	-0.19/-0.45	1.10/-0.53	-0.02/-0.68	1.73/-2.22	1.88/-1.05	-0.33/-1.57	-0.14/-2.90	4.28/-3.81	3.48/-3.68	3.51/-1.66
Θ(45°)	0.54/-1.14	1.78/-0.01	-4.06/-5.70	-6.21/-7.62	-8.26/-6.98	-3.97/-2.48	-2.06/-1.99	-1.20/-0.62	-1.00/-1.69	-0.27/-0.16	-0.59/-0.25	2.03/-2.64	2.27/-2.43	2.55/-0.82	-0.12/-1.17	1.60/-0.03	-0.38/-0.65	1.26/-1.41	1.30/-1.01	0.69/-0.36	0.25/-2.28	3.71/-3.47	3.08/-3.55	3.57/-1.51
Θ(52.5°)	-0.04/-0.31	0.40/-0.10	-1.69/-2.78	-4.49/-7.28	-6.37/-5.07	-3.41/-1.67	-0.43/-0.05	0.06/-0.93	0.96/-0.47	-0.71/-0.05	-1.00/-0.05	2.21/-1.32	3.64/-3.08	1.56/-0.44	-0.50/-0.58	0.85/-0.63	-0.25/-0.74	0.81/-0.84	0.50/-0.94	0.97/-1.52	1.72/-1.99	2.37/-1.99	2.52/-3.44	3.43/-1.49
Θ(60°)	0.21/-1.03	-0.44/-0.72	-2.47/-2.53	-2.94/-3.75	-2.31/-2.26	-3.61/-2.19	-1.63/-1.47	-0.98/-0.21	2.62/-2.11	0.42/-0.21	-1.45/-1.11	1.41/-2.85	3.11/-2.95	1.07/-0.15	0.61/-0.70	0.67/-0.64	-0.74/-0.58	-0.06/-0.64	-2.05/-0.59	2.34/-3.27	3.03/-2.79	2.23/-1.79	2.66/-3.59	3.37/-1.50
Θ(67.5°)	-0.79/-2.48	-0.84/-1.32	-3.40/-3.68	-4.11/-1.34	0.32/-0.20	-1.55/-2.37	-1.61/-1.49	-1.88/-1.63	1.71/-1.84	-0.42/-0.59	-1.13/-1.11	1.39/-2.87	2.04/-2.67	2.53/-1.82	2.03/-0.36	1.33/-1.61	1.84/-0.45	-0.85/-3.20	-5.68/-2.14	1.84/-3.23	3.65/-3.95	3.01/-2.35	2.79/-2.94	3.06/-1.74
Θ(75°)	-2.11/-5.44	-2.44/-1.30	-2.75/-5.59	-8.11/-1.75	-0.64/-0.30	-1.69/-3.29	-3.24/-1.89	-2.48/-4.80	-1.18/-0.96	-0.72/-0.92	-0.60/-2.50	-0.92/-1.87	0.37/-1.02	2.82/-1.23	1.24/-1.23	2.68/-2.79	2.47/-0.74	-0.54/-2.59	-4.26/-4.51	0.43/-2.35	3.46/-2.18	1.76/-3.91	2.52/-3.44	3.43/-1.49
Θ(82.5°)	-3.26/-9.12	-4.58/-2.38	-3.07/-5.41	-6.67/-1.47	-2.54/-3.04	-2.93/-4.08	-4.11/-2.93	-3.42/-6.88	-5.07/-0.34	-1.16/-1.29	-1.09/-4.50	-1.75/-3.99	-0.95/-1.59	2.56/-0.62	0.12/-0.46	2.00/-2.10	0.68/-0.07	-1.03/-2.73	-2.36/-2.97	-0.86/-0.34	3.46/-5.60	4.76/-2.37	-0.56/-2.34	-0.55/-0.21
Θ(90°)	-3.61/-8.87	-4.13/-4.06	-6.07/-8.69	-7.32/-3.43	-5.02/-4.81	-5.18/-4.81	-5.60/-4.43	-7.93/-2.43	-2.16/-1.61	-1.93/-5.81	-2.84/-0.31	-1.45/-0.77	1.50/-0.44	-1.77/-0.68	0.58/-1.28	-1.22/-1.83	-2.51/-4.05	-1.65/-3.37	-1.32/-3.23	1.02/-3.96	3.27/-1.46	-2.42/-5.70	-2.69/-1.20	
Θ(97.5°)	-6.10/-10.23	-3.87/-2.30	-4.70/-1.19	-8.32/-6.21	-7.57/-8.37	-6.73/-7.48	-5.94/-6.37	-7.02/-8.76	-8.65/-3.29	-3.34/-2.41	-2.91/-5.70	-2.57/-2.30	-2.18/-0.52	-0.72/-1.06	-1.88/-1.85	-1.01/-0.20	-3.09/-3.81	-5.61/-4.28	-2.32/-4.91	-3.48/-5.08	-3.28/-1.00	0.16/-1.95	-6.16/-8.32	-1.21/-1.15
Θ(105°)	-5.01/-7.87	-4.81/-3.66	-6.17/-6.91	-6.92/-11.57	-13.14/-8.02	-5.56/-6.60	-5.27/-6.91	-8.60/-7.87	-7.24/-4.41	-5.03/-3.22	-4.12/-7.10	-3.41/-2.55	-3.40/-0.61	0.22/-0.67	3.29/-2.27	-2.29/-1.02	-3.06/-3.57	-5.89/-4.92	-2.17/-4.35	-4.54/-8.61	-7.09/-0.75	-1.61/-5.28	-6.91/-7.61	-3.22/-1.96
Θ(112.5°)	-9.18/-10.66	-10.79/-11.36	-9.95/-7.31	-10.33/-13.65	-8.42/-5.13	-4.48/-6.05	-7.01/-6.92	-6.62/-6.92	-7.95/-7.84	-4.97/-2.69	-5.62/-8.63	-3.94/-4.92	-2.80/-1.76	-2.26/-4.12	-1.79/-5.48	-2.10/-1.44	-2.26/-5.51	-6.13/-5.51	-4.73/-3.98	-3.03/-7.63	-8.13/-1.60	-0.99/-2.67	-6.90/-12.52	-6.93/-3.78
Θ(120°)	-4.60/-8.16	-9.97/-15.16	-7.91/-12.17	-10.47/-7.07	-7.88/-7.45	-9.36/-15.43	-10.95/-8.10	-10.25/-10.64	-10.45/-7.11	-4.52/-4.15	-7.33/-8.68	-5.60/-3.69	-5.09/-2.43	-1.78/-5.13	-6.25/-8.81	-2.91/-4.70	-1.85/-5.54	-4.52/-5.49	-8.87/-5.70	-4.43/-7.84	-5.91/-3.89	-2.90/-4.59	-7.33/-13.27	-12.58/-5.37
Θ(127.5°)	-7.20/-7.89	-8.99/-7.50	-5.79/-8.26	-9.34/-12.47	-13.73/-15.40	-11.46/-10.30	-11.80/-11.20	-9.95/-11.81	-7.42/-5.31	-4.99/-5.25	-8.76/-8.70	-5.88/-5.38	-3.66/-1.15	-1.13/-2.52	9.45/-6.72	-5.67/-5.42	-2.98/-5.74	-5.15/-8.05	-10.41/-3.51	-2.49/-11.38	-7.02/-5.76	-3.16/-3.60	-6.47/-7.31	-7.38/-7.94
Θ(135°)	-5.83/-5.46	-7.36/-6.60	-6.02/-9.21	-13.08/-12.08	-11.60/-9.86	-6.73/-5.42	-7.89/-9.02	-10.10/-9.49	-6.43/-5.42	-12.92/-7.00	-3.38/-3.85	-4.59/-2.82	-3.13/-8.39	-12.50/-8.58	-10.33/-5.16	-5.17/-5.50	-5.09/-7.03	-9.19/-6.59	-4.13/-6.00	-11.50/-14.78	-6.76/-4.24	-8.63/-14.63	-11.33/-6.34	
Θ(142.5°)	-10.69/-10.41	-12.19/-15.39	-13.59/-10.96	-10.08/-8.02	-7.06/-7.25	-5.82/-7.58	-13.63/-8.64	-5.39/-5.80	-8.31/-12.36	-10.38/-7.68	-8.58/-9.88	-8.31/-9.06	-6.66/-3.03	-2.82/-7.46	-1.45/-6.12	-5.77/-4.47	-1.85/-5.64	-8.32/-14.71	-10.39/-7.88	-8.05/-6.57	-6.98/-10.69	-14.40/-11.52	-12.68/-9.32	-5.75/-5.93
Θ(150°)	-15.51/-13.06	-10.59/-9.50	-11.07/-13.86	-15.80/-14.78	-15.13/-14.15	-11.45/-10.46	-11.91/-13.79	-13.43/-10.86	-7.34/-5.74	-5.83/-7.16	-9.92/-12.14	-10.26/-7.38	-5.28/-4.92	-5.79/-6.70	-7.49/-10.66	-14.16/-13.43	-8.90/-7.85	-10.23/-12.12	-11.71/-13.50	-8.61/-6.69	-9.11/-14.76	-15.13/-15.38	-12.44/-9.99	-9.70/-11.26
Θ(157.5°)	-11.14/-11.87	-11.42/-12.73	-14.53/-14.44	-15.94/-15.83	-15.06/-13.55	-12.32/-10.46	-9.05/-7.27	-6.30/-6.71	-8.02/-14.44	-10.96/-8.93	-7.18/-6.19	-5.13/-5.56	-7.56/-10.15	-9.76/-8.58	-8.06/-11.71	-13.38/-10.93	-9.39/-9.88	-11.45/-13.83	-15.03/-13.85	-11.04/-9.93	-10.40/-11.25	-12.17/-13.23	-12.02/-12.25	-13.66/-11.02
Θ(165°)	-12.94/-9.52	-7.68/-7.30	-7.96/-10.02	-9.98/-10.11	-10.83/-12.46	-14.48/-13.94	-13.37/-11.04	-10.03/-9.44	-10.17/-12.23	-15.10/-14.95	-12.43/-10.57	-8.79/-7.25	-6.47/-6.74	-7.32/-6.85	-10.99/-7.76	-10.07/-14.14	-15.13/-14.43	-14.37/-14.75	-13.08/-11.45	-9.28/-9.41	-8.14/-9.54	-11.51/-13.92	-14.73/-13.33	
Θ(172.5°)	-12.15/-11.18	-10.06/-9.85	-9.01/-8.69	-9.17/-9.83	-9.73/-8.96	-8.70/-8.21	-8.98/-9.29	-9.75/-10.30	-10.96/-10.63	-9.56/-9.24	-9.29/-8.14	-7.20/-6.58	-6.14/-6.22	-6.74/-7.02	-8.60/-5.76	-5.49/-6.24	-7.36/-8.45	-9.08/-10.76	-12.51/-13.96	-13.74/-14.32	-14.65/-14.87	-15.23/-15.28	-15.26/-15.70	-14.90/-13.81
Θ(180°)	-12.28/-10.90	-10.99/-13.34	-13.17/-11.16	-10.86/-11.22	-10.66/-9.63	-9.61/-9.06	-10.08/-11.21	-11.64/-11.89	-13.51/-13.99	-13.61/-12.22	-12.10/-12.45	-13.36/-12.36	-10.77/-10.36	-11.45/-13.17	-14.10/-13.68	-14.26/-14.87	-13.54/-12.65	-13.61/-14.57	-14.86/-15.46	-15.85/-15.67	-14.62/-14.22	-14.64/-13.77	-13.25/-13.84	-13.97/-14.72
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°)	-0.11/-0.93	-1.24/-1.70	-1.70/-1.28	-0.72/-0.77	-1.02/-1.26	-1.23/-0.62	-0.13/-0.57	-0.89/-1.14	-0.81/-1.07	-0.96/-1.01	-1.03/-1.10	-0.84/-0.78	-0.78/-0.60	-0.47/-0.39	-0.87/-0.85	-0.80/-1.07	-0.39/-1.22	-1.35/-1.10	-0.96/-4.02	-0.26/-0.59	-0.54/-1.28	-1.42/-1.60	-1.45/-1.11	-0.85/-0.21
Θ(7.5°)	1.30/-1.13	1.04/-1.01	0.25/-0.06	-0.25/-0.00	-0.24/-0.59	-1.06/-1.20	-1.07/-1.48	-2.18/-2.57	-2.84/-2.67	-2.80/-4.42	-2.61/-2.41	-2.27/-2.17	-1.84/-1.26	-1.30/-1.63	-2.12/-1.66	-1.25/-1.51	-2.06/-1.57	-0.70/-0.16	-0.20/-0.91	-0.09/-0.78	-0.47/-0.47	-0.05/-0.54	1.04/-1.41	
Θ(15°)	-0.70/-0.01	-0.20/-0.34	-1.40/-2.93	-4.77/-4.83	-4.92/-5.63	-6.27/-6.28	-5.97/-6.05	-6.04/-5.16	-4.17/-3.30	-2.68/-2.45	-2.06/-1.98	-1.67/-1.03	-0.80/-0.40	0.03/-0.15	-0.07/-0.30	0.00/-0.50	-0.06/-0.69	0.82/-1.12	1.80/-2.11	2.14/-1.70	1.08/-0.48	-0.24/-0.82	-0.87/-0.62	-0.27/-0.34
Θ(22.5°)	-0.52/-0.57	-0.19/-1.00	-2.33/-3.71	-4.80/-4.69	-4.24/-4.94	-5.40/-4.92	-4.32/-3.24	-2.42/-1.48	-1.03/-0.47	0.29/-0.37	-0.01/-0.28	-0.16/-0.02	-0.36/-1.05	-1.89/-2.26	-1.78/-0.49	-0.01/-0.68	1.14/-1.45</							

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 of 6GHz(2TX)

Appendix F

Total Gain Data

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°)	-11.06/-11.04	-10.62/-10.20	-10.49/-10.61	-10.35/-9.83	-9.86/-9.66	-10.76/-11.31	-11.97/-12.37	-12.20/-12.20	-12.30/-12.93	-13.04/-13.02	-12.26/-11.84	-10.85/-11.11	-11.77/-12.65	-14.13/-14.81	-14.06/-12.29	-12.31/-12.91	-14.10/-14.19	-13.19/-13.01	-11.96/-11.88	-11.27/-11.48	-10.14/-10.52	-9.85/-9.72	-9.20/-9.14	-9.92/-11.05
Θ(7.5°)	-7.92/-7.32	-6.74/-6.66	-6.89/-6.93	-6.55/-6.47	-6.08/-5.93	-5.93/-5.99	-5.58/-5.52	-5.57/-5.11	-4.93/-4.78	-4.41/-4.14	-3.80/-3.31	-2.84/-2.56	-2.80/-3.43	-3.99/-3.99	-3.78/-4.08	-4.78/-5.21	-7.08/-8.71	-10.10/-10.79	-11.51/-12.18	-14.74/-14.82	-15.54/-14.50	-11.85/-9.02		
Θ(15°)	-7.98/-5.96	-4.48/-3.25	-2.24/-1.71	-1.82/-2.24	-2.55/-2.81	-3.21/-3.24	-3.03/-2.97	-2.51/-2.21	-1.92/-1.89	-1.93/-2.13	-1.89/-1.11	-0.45/-0.10	-0.50/-1.33	-2.43/-3.58	-3.80/-3.29	-2.57/-2.19	-2.31/-3.11	-4.61/-5.78	-6.75/-6.94	-6.51/-6.66	-7.41/-8.83	-10.63/-11.49	-11.36/-10.86	-10.16/-9.34
Θ(22.5°)	-5.81/-5.88	-3.63/-1.73	-0.88/-0.89	-0.99/-1.29	-1.77/-2.53	-3.64/-4.15	-3.11/-1.57	-0.50/-0.33	-0.70/-0.93	-0.86/-0.76	-0.210.81	1.53/-1.21	0.11/-0.91	-1.12/-0.60	1.03/-2.59	3.26/-3.61	3.48/-2.69	1.68/-0.43	-0.89/-1.89	-2.71/-2.96	-2.61/-2.29	-2.54/-3.66	-4.67/-5.02	-4.81/-5.43
Θ(30°)	-5.31/-4.43	-2.24/-1.13	-0.550/-0.7	0.410/-0.34	0.06/-0.13	-0.36/-0.31	0.020/-0.28	0.380/-0.08	-0.81/-0.80	-0.250/-0.48	1.11/-1.97	2.732/-65	2.132/-30	3.253/-61	3.373/-32	3.593/-63	3.252/-10	0.960/-29	-0.43/-2.07	-2.59/-1.88	-0.960/-1.70	0.850/-87	-0.06/-1.70	-3.60/-4.60
Θ(37.5°)	-5.73/-4.52	-2.55/-2.35	-1.25/-0.03	0.34/-0.20	-0.44/-0.09	0.64/-1.41	2.352/-92	2.581/-30	0.190/-68	1.722/-94	3.844/-10	3.973/-55	3.854/-44	4.623/-76	1.932/-25	2.943/-25	3.05/-142	0.710/-89	-0.05/-1.10	-1.12/-0.83	-0.39/-0.01	0.200/-11	0.00/-0.27	-1.44/-4.30
Θ(45°)	-5.70/-5.45	-2.54/-0.63	0.921/-47	1.590/-23	-0.44/-0.26	0.46/-1.87	2.933/-54	3.301/-79	0.311/-34	3.274/-22	4.925/-55	5.124/-20	4.284/-84	4.583/-51	2.25/-15	2.742/-61	2.661/-46	1.060/-84	0.09/-0.94	-2.05/-0.39	1.271/-39	1.360/-36	-0.31/-0.75	-1.50/-3.35
Θ(52.5°)	-6.05/-8.39	-3.76/-0.98	-0.32/-1.67	-1.40/-0.11	0.84/-1.11	0.350/-77	2.363/-61	3.892/-95	2.042/-89	4.254/-47	5.576/-45	5.774/-65	4.474/-48	3.872/-93	2.983/-36	2.952/-52	2.741/-49	0.790/-59	0.12/-2.25	-2.13/-0.43	1.431/-56	1.591/-50	1.570/-02	-2.25/-3.22
Θ(60°)	-1.56/-3.55	-4.60/-4.85	-5.14/-8.23	-4.23/-0.36	2.502/-24	1.642/-23	3.414/-36	4.103/-11	2.773/-07	3.694/-12	5.136/-39	6.184/-82	4.023/-78	3.563/-56	3.523/-49	3.022/-96	3.442/-76	1.941/-30	0.07/-0.53	-1.33/-0.92	0.360/-66	1.142/-51	3.372/-69	1.580/-44
Θ(67.5°)	1.140/-31	-2.61/-4.74	-3.68/-1.44	-0.062/-0.6	2.852/-26	3.204/-29	4.654/-86	4.192/-95	2.722/-80	2.723/-38	4.946/-01	5.163/-75	2.962/-66	2.312/-52	2.973/-16	2.803/-54	3.233/-05	2.482/-69	1.790/-76	-0.87/-1.11	1.152/-20	2.293/-13	3.983/-84	3.622/-81
Θ(75°)	1.291/-11	-0.98/-4.33	-2.040/-95	1.122/-52	2.452/-39	3.394/-13	4.064/-54	3.741/-93	1.102/-01	1.702/-21	3.654/-60	3.712/-30	1.681/-82	2.051/-33	1.092/-93	3.593/-76	2.752/-74	1.931/-51	1.282/-91	2.712/-85	3.003/-00	3.111/-92		
Θ(82.5°)	0.49/-0.43	-1.60/-3.16	-2.84/-0.14	-0.86/-1.22	1.642/-02	2.343/-46	2.990/-52	-1.270/-30	0.070/-86	2.283/-56	1.850/-95	0.040/-65	-0.630/-64	0.96/-0.31	0.642/-56	3.023/-82	3.272/-73	1.370/-99	-0.83/-0.09	2.272/-68	1.851/-89	0.570/-83	1.886/-04	
Θ(90°)	-2.04/-3.28	-2.29/-3.93	-5.00/-2.06	-1.97/-1.13	-0.040/-0.76	-0.10/-0.24	-0.700/-78	1.09/-0.65	-4.26/-2.48	-2.33/-1.85	-0.240/-82	-0.79/-2.11	-2.59/-1.54	-3.16/-0.34	-0.05/-2.31	-2.100/-68	2.183/-19	1.710/-78	-1.080/-05	-2.17/-2.51	0.60/-0.11	-1.26/-0.21	-1.32/-1.07	0.29/-0.20
Θ(97.5°)	-3.70/-6.86	-5.72/-6.19	-8.27/-4.72	-3.68/-4.59	-2.73/-1.90	-3.57/-2.32	-2.59/-0.90	-1.38/-3.78	-6.85/-3.83	-4.58/-4.21	-2.46/-1.24	-4.17/-4.89	-5.11/-3.30	-5.23/-1.75	-1.99/-4.39	-5.87/-2.74	0.380/-34	-1.56/-2.14	-5.55/-2.88	-6.55/-6.38	-1.20/-3.26	-3.81/-4.70	-4.22/-2.25	-1.00/-5.09
Θ(105°)	-9.32/-11.48	-6.23/-5.39	-8.31/-7.11	-3.61/-6.59	-6.54/-4.41	-6.77/-4.45	-3.74/-2.90	-6.77/-4.45	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73	-6.21/-6.73
Θ(112.5°)	-9.15/-9.78	-9.37/-10.04	-8.54/-8.93	-5.06/-7.52	-8.85/-7.10	-7.51/-7.06	-4.22/-5.08	-8.03/-10.50	-8.33/-8.47	-7.30/-7.98	-7.46/-6.43	-8.78/-9.39	-8.45/-8.19	-9.03/-6.45	-4.58/-6.23	-5.91/-6.80	-3.78/-4.36	-5.79/-5.70	-10.22/-9.60	-10.28/-13.70	-5.61/-7.14	-6.10/-8.93	-6.92/-7.60	-6.91/-7.17
Θ(120°)	-12.43/-8.87	-14.26/-10.16	-12.03/-13.32	-12.59/-9.87	-11.87/-9.20	-5.61/-7.45	-7.21/-8.07	-9.47/-10.12	-12.01/-10.12	-9.00/-8.71	-8.36/-8.39	-9.47/-9.08	-8.83/-8.87	-10.13/-9.37	-4.92/-6.87	-6.93/-8.48	-5.31/-7.42	-6.73/-7.57	-15.04/-10.85	-11.56/-12.42	-9.76/-6.89	-9.57/-11.72	-9.91/-6.43	-5.83/-9.03
Θ(127.5°)	-13.25/-10.61	-14.11/-15.27	-11.05/-8.56	-11.58/-6.63	-8.16/-10.34	-10.41/-11.86	-11.09/-9.00	-10.21/-12.24	-13.13/-12.07	-10.70/-12.18	-10.91/-10.07	-13.10/-11.87	-9.10/-10.10	-11.39/-8.39	-3.23/-6.86	-8.66/-11.56	-9.57/-10.93	-11.78/-15.53	-12.19/-11.82	-11.27/-15.11	-14.89/-15.57	-13.83/-11.57	-11.77/-8.88	-7.35/-10.14
Θ(135°)	-10.58/-12.46	-15.01/-14.53	-10.53/-12.94	-14.67/-10.38	-13.10/-15.13	-9.31/-7.88	-6.84/-8.30	-11.20/-13.65	-12.03/-10.20	-12.96/-13.35	-13.89/-11.25	-13.93/-15.43	-11.82/-12.43	-10.22/-9.45	-7.20/-9.47	-8.22/-7.84	-9.07/-11.99	-12.13/-11.92	-11.74/-8.33	-8.50/-15.41	-12.90/-11.43	-12.15/-15.71	-11.67/-11.28	-13.15/-11.65
Θ(142.5°)	-9.39/-15.17	-15.32/-13.68	-12.69/-12.89	-12.40/-13.57	-14.59/-9.47	-9.01/-9.55	-10.81/-12.00	-14.71/-14.07	-14.30/-15.04	-13.54/-13.20	-12.61/-14.70	-13.05/-12.47	-12.20/-11.43	-11.01/-10.78	-8.38/-11.56	-11.41/-11.70	-8.38/-9.88	-10.19/-13.77	-14.05/-15.41	-12.54/-12.31	-12.49/-13.21	-15.47/-11.73	-13.46/-11.65	-12.03/-11.43
Θ(150°)	-6.37/-15.62	-14.73/-13.49	-15.64/-12.76	-13.37/-14.52	-14.95/-14.57	-14.52/-14.98	-14.67/-14.86	-14.80/-14.08	-14.76/-14.97	-14.69/-15.81	-15.89/-14.25	-13.65/-13.08	-14.14/-11.49	-11.05/-10.21	-11.47/-14.38	-15.18/-15.12	-15.37/-15.43	-14.96/-14.89	-14.13/-15.68	-15.27/-13.41	-14.88/-13.67	-15.49/-14.57	-15.05/-15.34	
Θ(157.5°)	-9.33/-14.67	-15.50/-15.96	-13.02/-11.50	-13.60/-13.56	-12.82/-11.40	-11.64/-12.47	-13.84/-14.94	-14.30/-14.42	-14.73/-15.28	-15.54/-15.65	-15.19/-14.91	-13.28/-12.07	-12.64/-12.38	-14.49/-14.98	-13.11/-10.85	-8.72/-8.09	-9.37/-11.64	-12.93/-14.25	-13.90/-12.91	-14.30/-15.07	-15.14/-14.92	-15.25/-16.24	-13.57/-11.76	-9.47/-8.19
Θ(165°)	-11.81/-9.72	-8.86/-11.86	-14.47/-14.43	-14.02/-13.52	-12.77/-12.52	-13.36/-14.94	-16.12/-15.64	-14.93/-15.64	-15.40/-15.17	-15.70/-15.47	-15.38/-15.96	-15.03/-15.04	-14.45/-15.28	-12.34/-11.24	-11.56/-11.81	-9.23/-8.37	-8.68/-8.93	-9.72/-8.73	-8.77/-10.36	-12.30/-14.04	-15.38/-14.50	-14.14/-13.49	-15.91/-15.45	-15.22/-14.04
Θ(172.5°)	-14.87/-15.80	-15.33/-15.08	-15.55/-14.49	-15.03/-12.23	-12.10/-12.57	-12.39/-12.05	-12.41/-12.72	-12.41/-12.72	-12.57/-12.86	-13.64/-15.01	-15.32/-14.68	-12.55/-14.23	-13.47/-12.69	-11.91/-11.21	-12.34/-12.18	-13.80/-14.36	-15.37/-14.80	-14.98/-14.34	-13.07/-13.55	-14.11/-12.69	-12.92/-13.21	-15.49/-14.57	-15.05/-15.34	
Θ(180°)	-13.37/-15.14	-14.06/-13.61	-13.02/-12.76	-12.64/-12.80	-13.33/-13.45	-12.83/-12.74	-12.07/-12.24	-12.61/-13.36	-13.19/-12.51	-11.85/-11.90	-11.70/-12.06	-12.12/-12.35	-12.47/-12.87	-13.01/-12.93	-12.84/-13.84	-14.58/-15.00	-14.04/-13.02	-12.50/-12.82	-12.66/-13.09	-13.39/-12.60	-11.57/-11.66	-13.11/-15.30	-16.02/-14.18	-12.63/-12.50
Freq(Hz)	6.475GPol.	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°)	-8.18/-8.09	-8.02/-8.55	-9.21/-9.54	-9.81/-9.49	-8.99/-8.68	-8.39/-8.04	-8.04/-8.78	-9.39/-9.19	-9.21/-9.47	-9.49/-9.50	-10.40/-10.70	-10.76/-10.48	-10.10/-9.97	-9.59/-9.86	-9.34/-8.91	-9.30/-9.80	-9.86/-9.68	-8.75/-8.49	-7.77/-6.79	-6.75/-6.92	-7.03/-7.81	-8.27/-8.67	-8.63/-8.36	-8.27/-7.75
Θ(7.5°)	-5.67/-5.15	-3.95/-3.56	-3.63/-3.78	-4.02/-4.05	-3.79/-3.94	-2.87/-2.92	-3.22/-3.63	-3.79/-3.43	-4.82/-5.37	-5.70/-6.22	-6.40/-6.58	-7.15/-7.45	-8.14/-8.67	-8.90/-9.12	-8.05/-9.78	-7.04/-7.35	-8.13/-8.61	-9.53/-10.97	-11.79/-12.52	-12.64/-11.61	-10.37/-8.42	-6.66/-5.94	-5.92/-5.92	
Θ(15°)	-3.68/-3.99	-3.38/-2.78	-2.10/-1.54	-0.91/-0.38	-0.090/-0.7	0.860/-80	-0.050/-0.58	-1.15/-1.90	-2.50/-3.04	-3.40/-4.04	-4.58/-4.49	-4.00/-2.95	-2.27/-2.06	-1.75/-1.80	-1.320/-0.70	-0.08/-0.14	-0.81/-1.76	-3.60/-5.91	-7.30/-8.49	-7.96/-6.33	-4.64/-3.48	-3.23/-3.52	-3.66/-3.93	
Θ(22.5°)	-3.32/-3.64	-3.64/-3.55	-2.72/-1.40	0.011/-0.0	1.010/-92	0.590/-69	0.930/-88	0.640/-23	-0.51/-1.16	-0.94/-0.26	-0.10/-0.45	-0.69/-0.22	0.46/-1.07	1.922/-92	3.443/-76	3.803/-77	3.813/-64	3.072/-26	1.09/-0.00	-1.14/-1.49	-0.730/-12	0.47/-0.12	-1.62/-3.65	-3.85/-3.49
Θ(30°)	-0.50/-1.99	-2.33/-1.61	-0.810/-95	2.012/-09	1.270/-15	-1.11/-1.90	-2.25/-4.32	-2.14/-1.32	-0.450/-61	1.201/-63	1.771/-31	1.001/-62	2.442/-71	3.574/-40	4.293/-47	2.280/-62	0.19/-0.02	-0.70/-0.91	-0.65/-1.18	-1.72/-2.94	-2.800/-41	2.863/-39	2.62/-0.1	-0.26/-0.17
Θ(37.5°)	-0.30/-1.12	-2.54/-1.49	0.231/-54	1.871/-32	1.060/-99	0.59/-0.10	-1.220/-1.48	1.932/-48	1.030/-24	2.561/-49	1.622/-53	2.722/-91	3.483/-80	2.912/-13	2.900/-01	-0.23/-0.76								

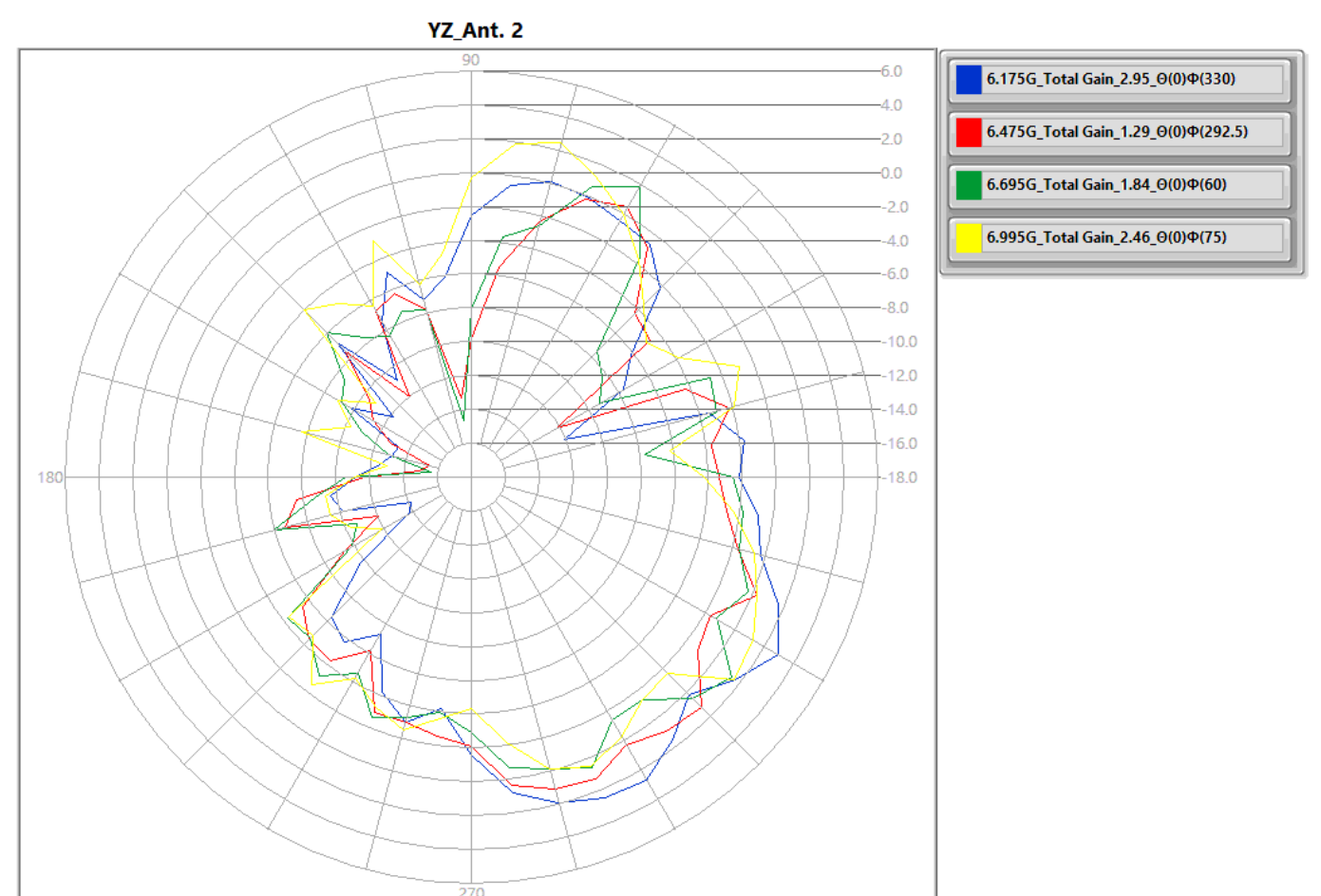
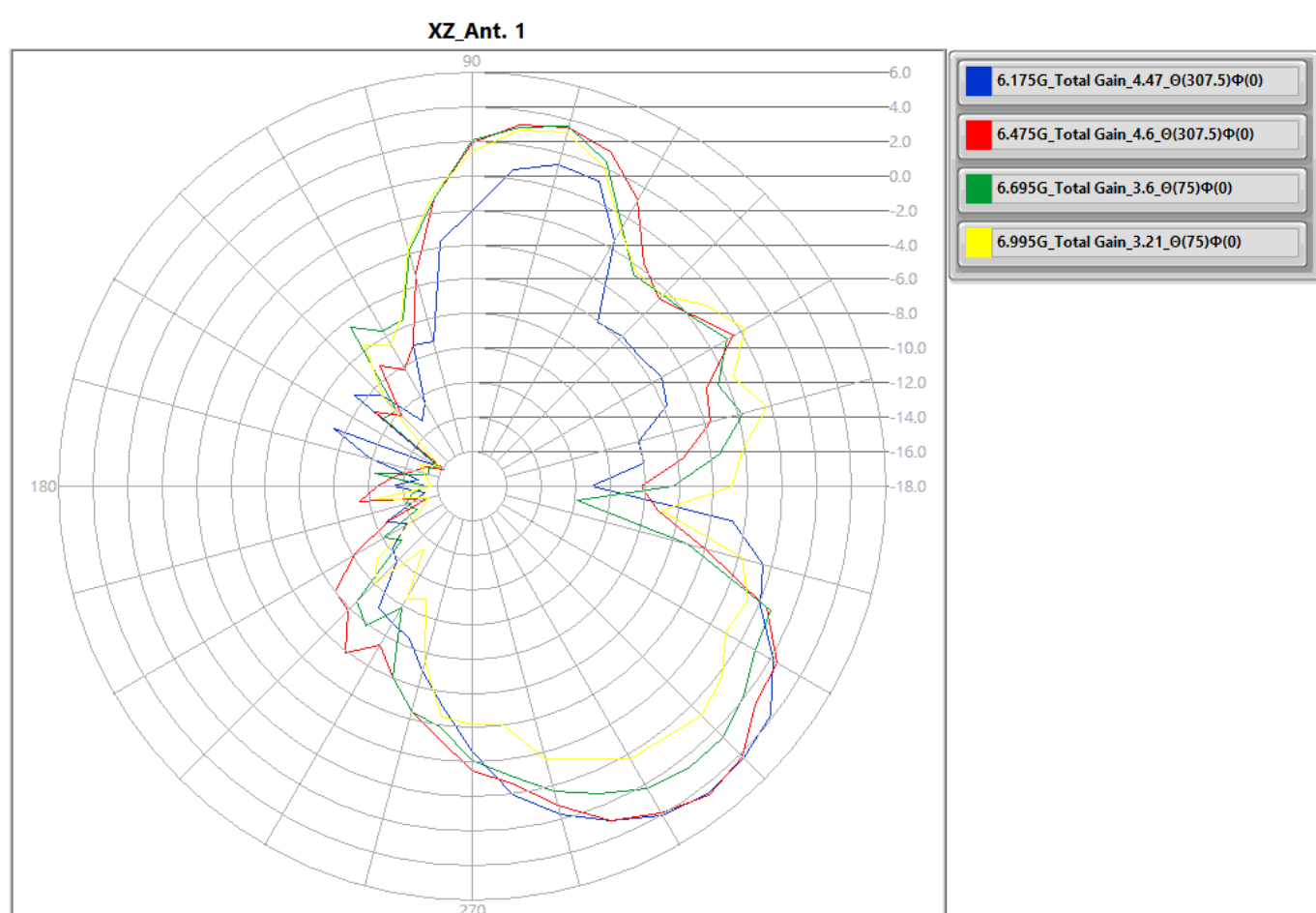
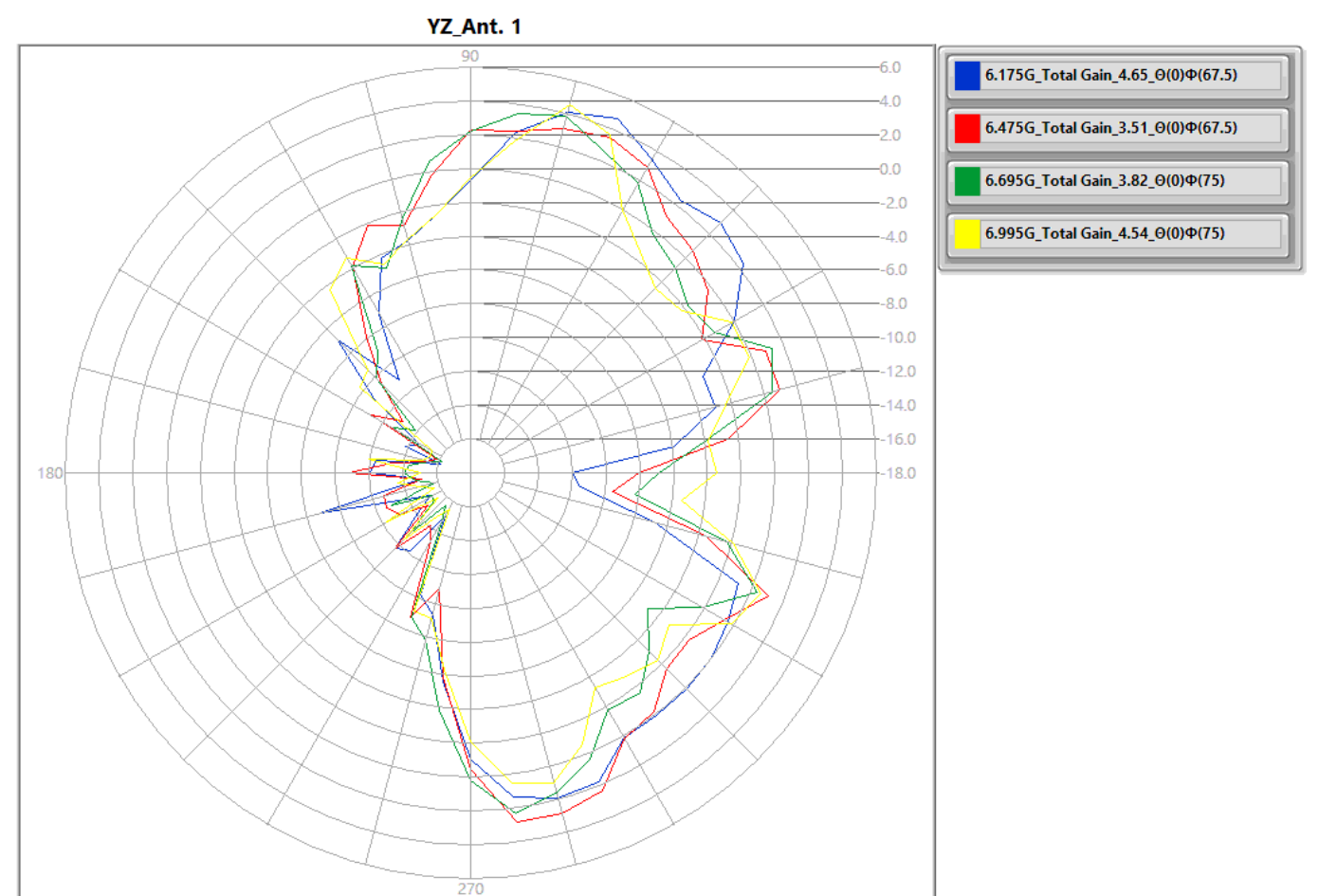
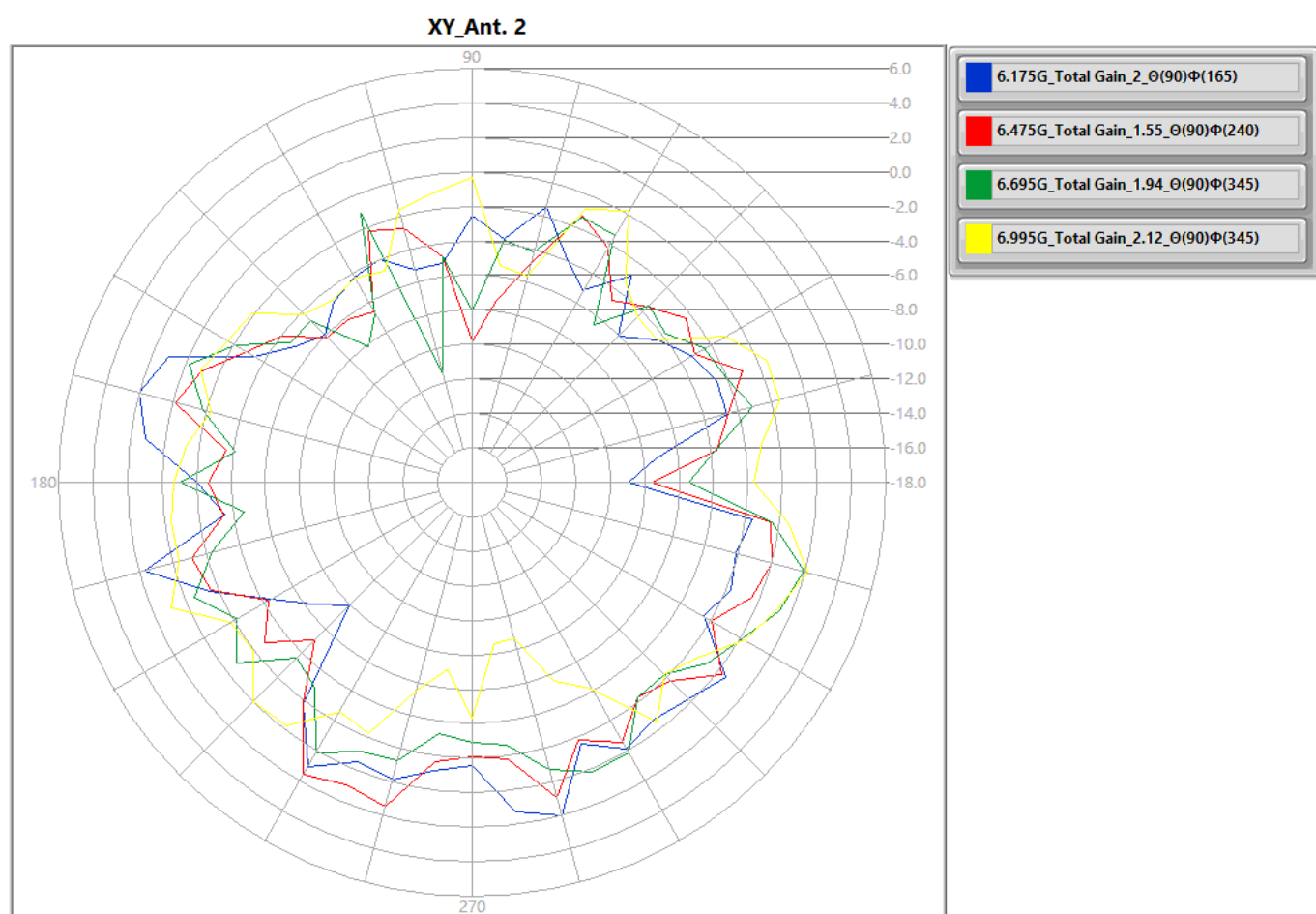
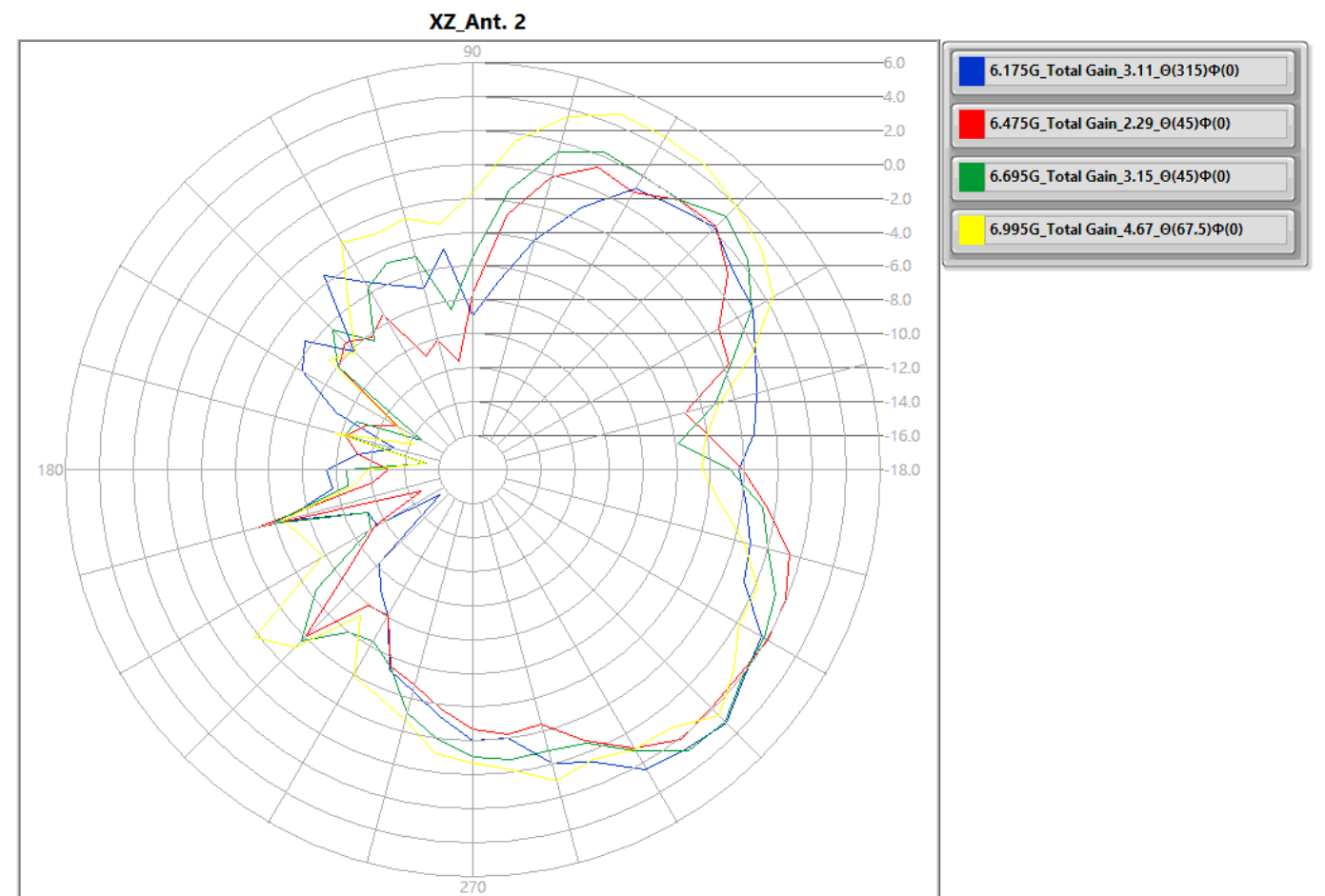
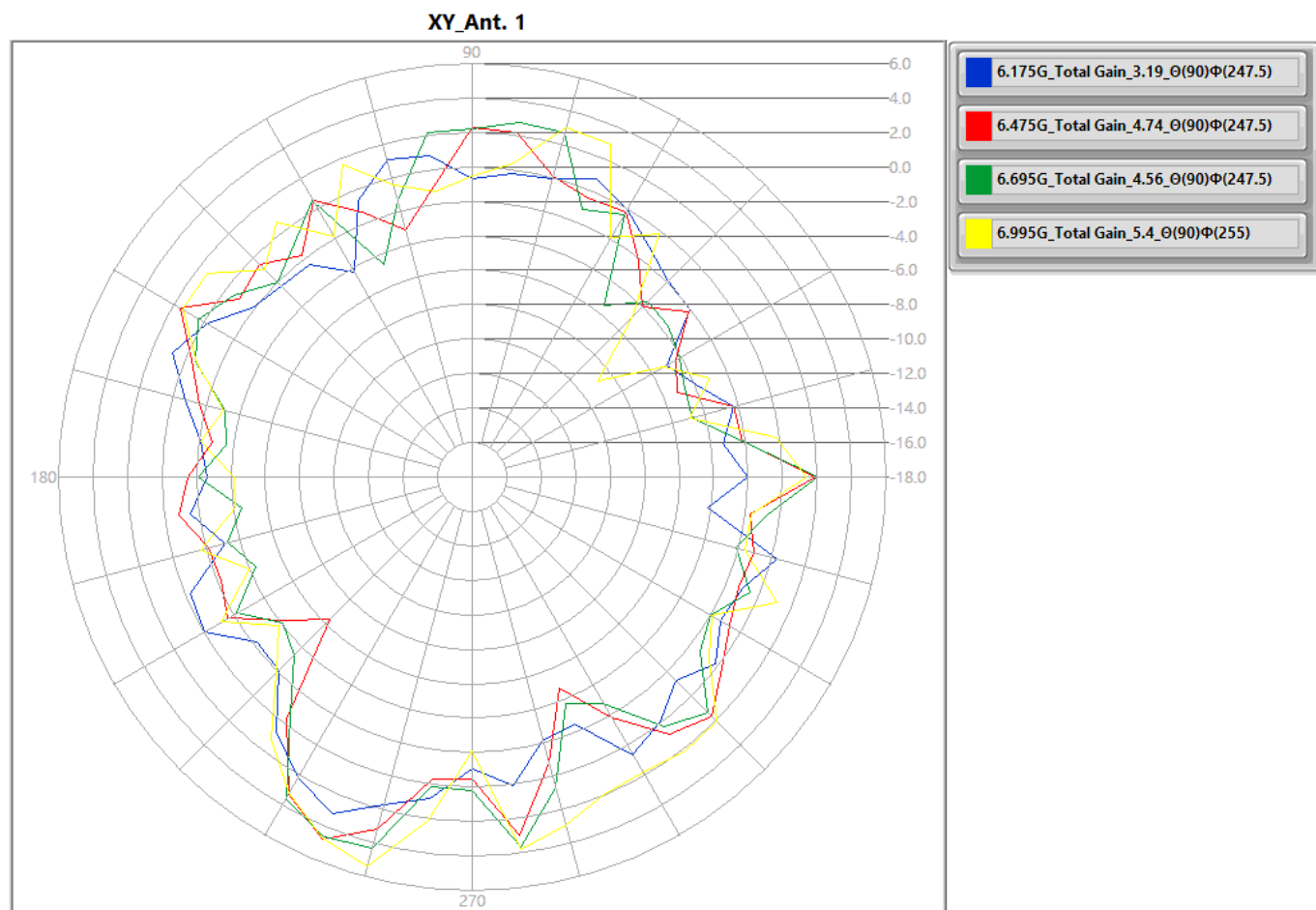


Antenna Pattern of 6GHz(2TX)

Appendix F

Θ(22.5°)	0.00/0.71	0.29/0.38	0.43/0.28	-0.26/-1.55	-2.92/-5.56	-8.89/-13.02	-12.08/-7.71	-4.34/-1.91	-1.34/-1.90	-1.80/-1.34	-0.92/-0.98	-1.65/-1.80	-0.69/0.52	1.14/1.43	1.61/1.68	1.43/1.07	0.12/0.02	0.62/1.25	1.64/1.72	1.95/1.89	1.02/0.11	0.31/1.24	1.90/1.58	0.84/-0.00
Θ(30°)	1.07/-0.10	-2.26/-3.86	-3.03/-1.74	-1.75/-3.30	-4.48/-5.02	-4.38/-4.55	-7.66/-10.43	-5.84/-1.99	-0.61/-1.06	-1.58/-0.77	0.57/0.98	0.79/1.08	1.61/1.80	2.01/2.02	1.69/1.32	2.30/3.08	2.80/2.68	2.30/2.05	2.95/4.15	5.22/5.90	5.35/4.04	1.26/-0.57	-0.18/-0.58	-0.30/0.79
Θ(37.5°)	1.27/-0.77	-3.09/-3.49	-2.98/-3.60	-5.11/-5.31	-3.83/-2.99	-2.22/-3.46	-6.10/-4.04	-1.43/-0.04	-0.56/-0.81	0.32/1.71	3.03/3.74	3.71/2.90	2.69/2.65	2.62/2.30	2.75/3.44	2.46/0.42	-0.86/0.33	1.68/2.58	3.74/4.47	4.33/3.37	1.36/-0.14	-1.01/-1.30	-0.18/1.03	
Θ(45°)	2.13/1.13	-1.01/-0.94	-1.09/-2.53	-1.22/0.44	1.64/1.76	1.46/0.41	-2.28/-3.11	0.97/1.56	0.33/1.49	2.86/3.06	2.95/5.75	4.83/4.52	3.11/2.65	3.24/5.55	3.72/3.55	1.76/0.91	-0.91/-2.21	-2.88/-2.40	0.18/1.88	1.51/1.17	0.72/1.63	2.35/2.70	1.60/0.62	1.89/2.33
Θ(52.5°)	1.54/1.15	-0.01/-0.90	-1.53/-1.97	-0.56/-0.69	0.38/0.93	1.33/1.25	-0.68/-1.22	1.80/2.36	0.50/2.21	2.75/1.54	2.17/3.82	4.80/4.22	2.70/1.95	2.29/2.74	2.13/1.55	-0.03/-0.95	-3.25/-2.23	-1.12/0.29	1.58/1.82	1.26/-0.83	-0.61/0.38	0.87/2.33	1.79/1.37	2.57/1.96
Θ(60°)	1.15/-0.51	0.94/-0.52	-1.90/-0.86	0.28/-0.96	-1.15/-0.97	-0.20/-0.14	-0.52/-0.28	1.70/2.02	0.77/2.09	2.20/-0.07	0.65/1.11	5.01/4.39	2.38/1.16	0.31/1.67	1.38/0.77	-1.08/-0.88	-4.25/-0.97	0.62/0.80	2.70/2.22	-0.21/-1.99	-0.08/0.65	0.63/2.28	1.42/0.07	0.91/2.00
Θ(67.5°)	-1.29/-0.50	0.78/-0.08	-1.86/0.34	1.50/-0.06	-0.70/-1.88	-1.59/-0.41	-0.09/-0.39	1.20/0.86	-0.24/0.53	0.01/-2.94	-0.16/2.67	4.77/3.31	0.63/0.25	1.48/1.89	0.40/-1.69	-3.15/-4.54	-3.66/-0.11	0.71/1.03	2.53/3.34	0.99/-2.36	0.66/1.88	0.48/1.26	0.98/0.75	0.69/-0.27
Θ(75°)	-4.01/-0.50	0.45/0.15	-1.62/-0.27	0.41/-0.49	-1.11/-1.45	-0.98/-0.15	0.04/-0.87	0.15/-0.08	-0.86/-1.26	-1.64/-3.71	-0.54/-1.59	4.05/3.25	-0.05/-0.93	1.91/1.40	-0.66/-4.34	-4.53/-2.83	-1.72/1.33	1.54/1.19	1.94/3.80	2.03/-1.19	1.59/2.30	1.15/1.42	0.54/0.72	1.28/-1.74
Θ(82.5°)	-6.86/-2.43	-1.43/-1.20	-2.73/-1.88	-1.70/-0.79	-2.34/-2.24	-1.63/-0.94	-0.61/-2.42	-1.40/-1.47	-2.33/-2.65	-5.04/-3.48	-1.83/2.07	2.99/1.78	-2.01/-1.69	2.02/-0.40	-2.76/-6.70	-4.76/-1.14	0.36/1.28	1.15/0.63	0.84/3.29	2.49/-0.83	2.21/2.14	1.09/0.90	0.00/0.31	-0.02/-2.42
Θ(90°)	-8.93/-7.22	-2.72/-2.63	-3.30/-4.45	-5.98/-2.88	-5.15/-3.76	-1.49/-3.75	-2.53/-5.19	-5.21/-4.02	-4.26/-4.76	-5.88/-5.06	-3.37/1.06	2.00/1.09	-2.01/-3.50	1.71/-1.52	4.46/-6.43	-7.90/-1.83	1.08/-0.43	-0.12/-1.17	-1.59/1.28	1.98/-1.57	-0.12/-0.64	-0.21/0.54	-2.51/-1.75	-2.13/-1.62
Θ(97.5°)	-4.89/-10.73	-3.84/-3.45	-2.59/-4.46	-7.25/-5.46	-8.43/-6.34	-3.78/-7.54	-6.05/-5.78	-7.88/-7.77	-5.16/-6.84	-8.43/-3.99	-4.13/0.20	0.19/-1.20	-3.29/-2.81	0.07/-2.65	-4.72/-6.30	-9.86/-3.18	-0.56/-4.16	-3.97/-4.57	-4.21/-1.07	0.39/-2.89	-1.96/-3.37	-3.33/-1.73	-3.98/-3.65	-3.99/-1.92
Θ(105°)	-6.89/-7.89	-3.55/-4.36	-4.25/-6.38	-5.40/-6.57	-9.17/-12.92	-11.19/-6.45	-7.12/-6.32	-8.86/-9.04	-6.47/-7.31	-10.78/-4.82	-4.10/-1.66	-1.35/-2.72	-4.43/-3.84	-2.69/-2.23	-5.71/-4.91	-13.48/-5.60	-2.27/-4.67	-5.76/-5.16	-2.99/-3.46	-1.46/-3.44	-3.61/-6.19	-6.55/-5.26	-5.79/-4.01	-4.00/-2.64
Θ(112.5°)	-6.27/-8.70	-8.71/-9.40	-9.99/-6.99	-6.19/-8.14	-8.49/-12.07	-10.28/-5.09	-4.92/-6.73	-5.63/-7.31	-7.74/-8.66	-11.99/-6.72	-3.52/-2.28	-2.42/-4.03	-5.22/-4.25	-3.65/-3.57	-6.79/-11.41	-9.77/-4.45	-2.88/-3.00	-9.87/-7.47	-4.27/-2.33	-2.54/-6.26	-3.09/-2.89	-7.65/-7.79	-8.06/-7.13	-2.75/-1.73
Θ(120°)	-5.25/-9.52	-9.52/-10.22	-13.43/-9.39	-15.17/-13.22	-8.82/-11.37	-14.97/-11.10	-7.41/-9.23	-7.62/-7.49	-10.19/-7.72	-7.95/-7.15	-5.46/-3.94	-3.85/-5.26	-8.00/-5.89	-5.88/-6.03	-5.32/-13.11	-7.45/-3.43	-4.85/-1.83	-12.92/-12.18	-7.28/-5.01	-1.92/-6.18	-4.86/-5.02	-8.06/-4.12	-7.59/-10.78	-4.95/-3.66
Θ(127.5°)	-3.55/-8.33	-11.63/-10.69	-7.39/-9.48	-10.39/-13.42	-15.77/-12.00	-10.75/-5.55	-9.85/-8.52	-7.74/-7.16	-5.69/-5.54	-6.07/-3.40	-6.93/-6.53	-9.03/-11.90	-5.17/-2.18	-9.74/-9.63	-9.37/-2.77	-6.38/-2.41	-11.27/9.14	-5.69/-5.71	-3.13/-8.22	-5.94/-1.37	-5.46/-10.88	-10.82/-10.09	-11.95/-6.11	
Θ(135°)	-8.14/-5.87	-5.95/-6.23	-6.90/-7.51	-8.24/-12.27	-14.16/-14.25	-7.87/-8.04	-6.76/-5.75	-12.49/-9.01	-5.69/-5.74	-8.56/-8.30	-4.93/-5.27	-6.46/-7.85	-10.25/-11.43	-6.66/-7.67	-8.56/-13.01	-5.72/-10.03	-4.34/-7.63	-9.78/-9.80	-6.32/-6.84	-1.01/-7.51	-13.33/-5.31	-1.39/-6.63	-5.27/-5.84	-9.57/-13.29
Θ(142.5°)	-5.50/-8.93	-9.77/-8.28	-7.51/-3.33	-14.10/-15.72	-9.24/-9.28	-10.09/-11.88	-12.15/-9.47	-8.69/-6.99	-5.76/-6.36	-8.33/-8.98	-7.59/-9.56	-9.17/-12.73	-7.95/-11.47	-9.15/-9.66	-12.26/-13.54	-15.18/-8.03	-7.87/-12.88	-12.35/-13.29	-9.72/-15.29	-3.40/-4.79	-14.81/-14.89	-8.79/-9.02	-10.50/-6.84	-7.68/-7.67
Θ(150°)	-6.43/-10.33	-14.26/-15.21	-13.28/-15.22	-10.69/-8.78	-11.43/-14.74	-12.30/-9.48	-9.79/-9.10	-7.08/-6.89	-7.78/-6.57	-5.35/-6.94	-9.56/-10.65	-10.93/-12.00	-11.50/-8.40	-4.84/-4.41	-7.06/-7.75	-13.66/-12.17	-9.20/-9.40	-13.81/-12.59	-7.03/-9.15	-14.43/-8.64	-9.88/-11.28	-8.28/-6.68	-5.22/-5.30	
Θ(157.5°)	-9.30/-9.00	-9.85/-11.61	-14.22/-14.02	-10.30/-11.30	-12.09/-12.45	-9.89/-9.19	-13.37/-12.43	-10.67/-10.63	-10.42/-9.10	-8.41/-8.71	-9.02/-10.88	-12.62/-13.93	-11.31/-9.03	-8.63/-9.35	-9.78/-10.16	-11.31/-15.11	-15.47/-10.25	-10.20/-11.98	-14.12/-15.27	-15.73/-12.02	-7.67/-6.72	-8.64/-11.44	-12.81/-11.78	-9.10/-9.62
Θ(165°)	-13.25/-11.89	-12.63/-15.31	-12.32/-12.37	-12.37/-10.91	-11.59/-13.18	-12.87/-12.49	-13.18/-14.95	-12.58/-11.99	-12.37/-11.88	-12.03/-10.38	-13.37/-11.53	-10.52/-8.48	-6.37/-5.61	-6.68/-9.00	-11.49/-11.96	-11.81/-11.46	-11.03/-11.10	-10.96/-9.77	-10.15/-12.69	-15.38/-13.55	-9.50/-8.60	-8.02/-9.62	-9.69/-8.77	-8.85/-10.26
Θ(172.5°)	-11.19/-13.09	-14.59/-15.14	-14.96/-15.41	-14.25/-13.90	-12.80/-11.25	-10.87/-11.84	-12.52/-11.66	-11.47/-11.78	-11.31/-10.73	-10.91/-12.18	-13.32/-11.80	-11.46/-10.41	-9.66/-9.00	-8.89/-9.56	-9.87/-9.44	-8.93/-9.84	-10.64/-10.46	-9.55/-9.65	-9.63/-10.24	-12.59/-14.29	-15.65/-15.43	-13.33/-11.57	-10.19/-10.71	-11.61/-11.44
Θ(180°)	-9.35/-8.51	-8.49/-8.80	-9.34/-9.18	-9.72/-9.33	-8.53/-8.89	-10.06/-11.06	-11.17/-11.17	-11.24/-10.56	-9.33/-9.39	-9.77/-9.68	-9.57/-10.41	-11.05/-11.37	-10.49/-10.56	-10.49/-10.56	-10.83/-12.02	-12.81/-12.66	-12.74/-11.00	-10.53/-10.22	-9.49/-9.19	-9.49/-9.95	-11.60/-13.51	-12.31/-11.34	-10.79/-10.49	
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°)	-2.10/-2.37	-2.22/-2.13	-1.99/-1.71	-2.19/-2.78	-2.89/-2.78	-2.68/-2.97	-3.34/-3.43	-3.30/-3.03	-2.70/-2.76	-2.61/-2.67	-2.71/-2.55	-2.35/-2.35	-2.32/-2.56	-2.96/-3.01	-2.75/-2.79	-2.79/-2.84	-3.08/-3.35	-3.61/-3.81	-3.78/-3.72	-3.45/-3.48	-3.17/-2.96	-2.28/-2.28	-2.22/-1.75	-1.97/-2.18
Θ(7.5°)	-3.11/-3.40	-3.09/-3.61	-3.97/-4.18	-4.18/-4.52	-4.53/-4.40	-4.17/-3.66	-3.70/-3.58	-3.51/-2.85	-2.18/-2.37	-2.65/-2.71	-2.62/-1.85	-1.19/-0.80	-0.43/-0.25	-0.38/-0.43	-0.30/-0.47	-0.83/-1.22	-1.28/-1.56	-2.21/-2.54	-2.78/-3.31	-3.79/-4.42	-4.72/-4.96	-4.02/-3.81	-3.65/-3.80	-3.84/-7.13
Θ(15°)	-5.86/-6.99	-6.16/-6.79	-4.99/-4.08	-4.24/-5.16	-5.86/-5.01	-3.76/-2.85	-2.23/-0.87	0.04/-0.06	-0.36/-1.12	-2.16/-3.29	-1.19/0.12	1.33/1.83	1.69/1.11	0.66/0.13	-0.24/-0.36	-0.70/-1.22	1.32/-1.30	-1.73/-2.24	-1.95/-2.20	-2.63/-1.30	-3.06/-3.15	-3.40/-3.62	-3.38/-4.12	
Θ(22.5°)	-1.65/-2.36	-2.47/-2.41	-1.77/-1.12	-4.48/-2.74	-5.10/-8.00	-8.73/-7.05	-4.32/-2.32	-0.74/-0.28	-0.77/-1.29	-1.28/-1.54	-1.15/-0.44	0.64/1.53	1.93/2.07	1.81/1.22	0.81/0.64	0.98/1.32	0.97/0.61	0.39/0.10	0.29/1.22	2.21/2.46	1.98/0.76	-0.51/-1.60	-1.53/-1.17	-0.94/-1.10
Θ(30°)	-1.29/-1.64	-2.91/-4.89	-6.18/-5.09	-4.35/-5.24	-8.45/-11.07	-11.31/-13.23	-12.15/-6.68	-2.95/-1.33	-1.66/-1.59	0.91/2.08	2.35/2.48	2.49/2.46	2.10/1.87	1.57/1.33	1.50/1.32	1.42/1.99	1.70/0.76	0.58/-0.09	-1.66/-0.13	2.37/4.01	4.21/3.50	1.73/0.21	-0.01/-0.09	-0.64/-1.25
Θ(37.5°)	0.92/-0.18	-3.63/-4.72	-4.47/-5.61	-8.16/-10.56	-10.47/-6.80	-6.65/-5.30	-4.68/-2.70	-0.76/-0.33	-0.71/0.70	3.29/3.79	3.70/3.92	3.76/2.91	1.82/0.81	1.44/2.72	3.18/2.29	0.26/-0.13	-0.24/0.02	1.30/1.16	-1.10/-1.23	0.83/2.09	2.31/2.93	3.22/2.20	1.08/0.17	-1.33/-0.27
Θ(45°)	2.29/0.75	-1.35/-2.53	-2.77/-4.19	-2.83/-0.44	-0.14/-0.17	0.36/-0.59	-4.29/-0.51	1.39/-0.60	0.26/2.92	3.56/3.23	3.77/4.44	3.61/2.40	1.89/0.93	0.96/1.74	-4.48/-0.18	-8.69/-6.13	-3.93/-3.04	-1.44/0.52	1.26/0.83	-0.48/-0.41	-0.19/0.75	2.59/2.67	2.24/1.16	-0.71/2.24
Θ(52.5°)	2.03/1.82	-0.53/-2.89	-2.19/-1.73	-0.08/0.70	-0.33/-0.99	-0.02/0.65	-0.97/-0.11	2.87/1.02	1.54/4.02	2.85/1.22	3.71/5.06	4.19/3.11	2.08/1.43	1.52/1.91	-0.16/-3.26	-4.50/-1.89	-0.40/-1.15	-0.17/-0.81	0.93/2.28	-0.23/-2.76	-1.61/-0.60	1.31/2.12	2.43/1.88	1.64/1.78
Θ(60°)	0.85/2.81	-0.58/-1.88	-1.20/-1.56	0.60/0.71	0.76/-0.45	-0.82/0.46	0.45/0.27	2.13/1.79	0.65/3.47	1.70/-0.51	3.04/4.76	4.80/3.55	0.98/1.57	2.85/2.29	-0.43/-4.18	-3.06/0.69	1.61/0.86	2.99/0.78	0.24/2.68	1.38/-3.59	-1.30/-1.59	0.37/1.56	2.10/2.46	2.10/0.44
Θ(67.5°)	1.27/2.81	0.03/0.34	-0.25/-1.27	1.08/1.31	1.93/0.46	-0.49/-1.00	-0.25/-1.66	1.62/2.07	-0.64/-1.73	-0.51/-1.40	2.43/4.04	2.55/-1.72	-0.69/-1.76	2.65/1.82	-1.97/-4.34	-1.81/-2.18	2.04/2.55	3.65/2.12	1.29/3.10	2.76/-2.70	0.30/-1.24	-0.39/1.69	2.08/2.53	2.87/0.89
Θ(75°)	-0.13/-1.42	-1.26/0.22	-0.69/-0.92	1.01/0.97	1.18/0.87	-0.76/-1.97	-2.29/0.74	0.80/1.24	-3.87/-0.74	-2.02/-2.46	0.36/2.60	3.42/0.19	-2.44/-0.17	0.98/0.96	-									

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 of SC Ant1, SC Ant2, BLE Ant3

Appendix G

Total Gain Data

Freq(Hz)	2.45GPol.	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°)	-6.71/-6.58	-6.50/-6.63	-6.83/-7.44	-7.91/-8.33	-8.78/-9.26	-9.65/-9.53	-9.30/-9.47	-9.53/-9.29	-9.05/-8.70	-8.57/-8.56	-8.50/-8.41	-8.42/-8.40	-8.44/-8.36	-7.95/-7.34	-6.71/-6.23	-6.13/-6.37	-6.80/-7.18	-7.21/-7.21	-7.19/-7.33	-7.51/-7.65	-6.70/-7.95	-8.24/-8.34	-8.23/-7.88	-7.43/-7.08		
Θ(7.5°)	-5.23/-5.20	-5.29/-3.64	-6.31/-6.83	-7.17/-7.50	-7.90/-8.10	-8.24/-8.22	-8.42/-6.65	-8.83/-8.98	-8.98/-9.02	-9.18/-9.35	-9.46/-9.63	-9.78/-9.87	-9.78/-9.55	-9.02/-8.22	-7.30/-6.51	-6.05/-5.93	-6.04/-6.22	-6.35/-6.36	-6.52/-6.99	-7.40/-7.51	-7.34/-7.12	-7.10/-6.96	-6.65/-6.23	-5.77/-5.45		
Θ(15°)	-4.07/-4.21	-4.45/-4.93	-5.49/-5.78	-5.81/-5.80	-5.83/-5.80	-5.79/-6.00	-5.91/-6.15	-6.52/-6.86	-7.03/-7.43	-7.98/-8.38	-8.94/-9.60	-9.88/-9.54	-8.81/-8.01	-7.41/-6.83	-6.17/-5.37	-4.76/-4.52	-4.56/-4.74	-4.90/-5.06	-5.36/-5.99	-6.66/-6.87	-6.42/-5.81	-5.41/-5.17	-4.86/-4.61	-4.37/-4.17		
Θ(22.5°)	-3.16/-3.57	-4.13/-4.76	-5.05/-4.94	-4.68/-4.52	-4.38/-4.20	-4.31/-3.95	-3.95/-4.16	-4.47/-4.94	-5.52/-6.04	-6.54/-7.07	-7.87/-8.74	-8.78/-7.73	-6.48/-5.68	-5.33/-5.24	-4.97/-4.36	-3.71/-3.30	-3.29/-3.41	-3.82/-4.21	-4.43/-4.77	-5.24/-5.56	-5.54/-4.29	-4.51/-4.36	-3.19/-3.13	-3.08/-3.13		
Θ(30°)	-2.27/-2.79	-3.44/-3.74	-3.55/-3.25	-3.21/-3.31	-3.29/-3.08	-2.78/-2.45	-2.23/-2.51	-3.03/-3.79	-4.71/-5.26	-5.45/-5.52	-5.92/-6.53	-6.83/-6.32	-5.44/-4.89	-4.92/-5.37	-5.71/-5.30	-4.64/-3.90	-3.73/-3.96	-4.33/-4.61	-4.58/-4.44	-4.51/-4.52	-4.01/-3.06	-2.38/-2.13	-2.01/-1.98	-2.03/-2.15		
Θ(37.5°)	-1.63/-2.09	-2.45/-2.32	-1.95/-1.75	-2.11/-2.76	-3.19/-3.14	-2.76/-2.42	-2.10/-2.19	-2.81/-3.88	-4.48/-4.46	-3.97/-3.67	-3.52/-3.57	-3.60/-3.51	-3.37/-3.44	-3.78/-4.63	-5.78/-6.62	-6.26/-5.38	-4.87/-5.00	-5.42/-5.80	-5.80/-5.56	-5.33/-4.94	-4.11/-3.03	-2.23/-1.82	-1.48/-1.24	-1.22/-1.39		
Θ(45°)	-1.31/-1.44	-1.43/-1.13	-0.87/-0.94	-1.61/-2.63	-3.43/-3.70	-3.62/-3.44	-3.09/-3.32	-3.72/-4.51	-4.57/-3.78	-2.70/-1.94	-1.44/-1.29	-1.32/-1.54	-1.57/-1.37	-1.23/-1.52	-2.50/-3.91	-4.81/-4.53	-4.13/-4.11	-4.42/-4.83	-5.11/-5.10	-5.04/-5.06	-4.98/-4.42	-3.73/-3.18	-2.45/-1.70	-1.33/-1.25		
Θ(52.5°)	-1.96/-1.46	-0.78/-0.09	0.240/0.6	-0.78/-1.98	-2.86/-3.41	-3.63/-3.50	-2.99/-2.67	-2.92/-3.44	-3.03/-1.95	-0.88/-0.32	0.030/0.3	-0.32/-0.68	-0.490/0.7	0.360/0.5	-0.91/-2.36	-3.49/-3.42	-3.33/-3.40	-3.77/-4.34	-4.48/-3.97	-3.38/-3.29	-3.53/-3.63	-3.37/-3.19	-3.19/-2.99	-2.71/-2.37		
Θ(60°)	-3.29/-2.48	-1.090/0.34	1.221/3.1	0.72/-0.30	-1.36/-2.25	-2.67/-2.34	-1.62/-1.29	-1.40/-1.77	-1.63/-0.98	-0.150/1.0	0.04/-0.37	-0.96/-1.06	-0.390/0.3	0.580/1.6	-0.82/-2.30	-3.93/-4.45	-3.96/-3.53	-3.44/-3.78	-4.42/-4.68	-4.25/-3.65	-3.49/-3.33	-2.68/-1.96	-1.83/-2.40	-0.66/-3.48		
Θ(67.5°)	-3.02/-3.08	-2.20/-0.58	0.731/1.6	0.960/5.1	-0.19/-1.22	-2.04/-2.38	-2.15/-2.12	-2.59/-2.81	-2.41/-1.50	-0.97/-1.01	-1.45/-1.91	-1.64/-0.65	0.220/0.53	0.11/-0.65	-1.63/-3.34	-5.34/-5.87	-4.88/-4.09	-3.67/-3.75	-4.57/-6.17	-7.02/-5.81	-4.73/-4.40	-4.01/-2.90	-2.05/-2.12	-2.60/-2.87		
Θ(75°)	-2.57/-2.49	-2.11/-0.74	0.450/8.1	0.602/7.4	-0.59/-2.07	-3.65/-4.29	-4.31/-4.58	-5.49/-6.24	-5.69/-4.42	-3.24/-2.29	-1.55/-0.99	-0.440/0.7	0.33/-0.01	-1.05/-1.60	-1.84/-2.95	-4.54/-5.34	-5.59/-5.95	-6.22/-5.68	-5.40/-6.56	-8.04/-8.10	-6.35/-4.88	-4.15/-3.76	-2.91/-2.57	-3.03/-3.09		
Θ(82.5°)	-2.94/-2.20	-2.04/-0.91	0.310/5.3	0.12/-0.68	-2.02/-3.92	-5.17/-5.04	-4.47/-4.61	-5.46/-5.78	-4.64/-3.26	-1.73/-0.64	-0.24/-0.47	-0.95/-1.15	-1.10/-1.81	-2.91/-3.02	-3.02/-3.60	-4.58/-5.69	-6.83/-8.34	-8.90/-7.93	-6.76/-7.58	-8.82/-8.35	-7.78/-6.09	-4.72/-4.51	-4.64/-3.77	-3.79/-4.06		
Θ(90°)	-4.43/-2.75	-2.33/-1.66	-0.320/1.3	-0.29/-1.08	-2.40/-4.09	-5.10/-4.98	-4.70/-4.84	-5.20/-4.97	-3.88/-2.90	-2.28/-1.60	-1.32/-1.68	-2.21/-2.47	-2.28/-3.34	-5.31/-6.03	-5.23/-4.41	-4.95/-6.14	-7.34/-9.61	-11.15/-8.44	-6.56/-7.43	-8.83/-7.36	-6.35/-6.13	-4.16/-3.00	-3.91/-4.13	-3.84/-5.16		
Θ(97.5°)	-4.41/-3.30	-2.45/-2.27	-1.50/-0.79	-0.96/-1.72	-3.02/-4.91	-6.38/-7.55	-7.91/-7.92	-7.58/-6.02	-4.37/-3.52	-2.88/-2.23	-2.23/-3.86	-5.88/-5.49	-4.91/-5.64	-6.54/-6.46	-5.13/-4.91	-6.16/-5.38	-4.55/-5.74	-7.97/-8.49	-7.07/-6.39	-7.20/-8.69	-8.95/-9.71	-6.68/-3.44	-3.53/-3.72	-2.63/-3.26		
Θ(105°)	-4.27/-3.10	-2.14/-3.60	-1.68/-1.76	-1.71/-2.60	-4.16/-6.51	-8.26/-7.73	-6.30/-6.38	-5.20/-5.19	-5.08/-5.69	-6.52/-6.72	-5.48/-6.39	-5.30/-3.26	-2.44/-3.19	-5.65/-8.69	-8.05/-7.55	-6.56/-3.41	-2.18/-2.33	-4.89/-7.90	-8.55/-5.09	-3.72/-4.77	-6.58/-8.67	-12.24/-8.38	-7.62/-8.79	-5.78/-5.45		
Θ(112.5°)	-6.08/-7.09	-5.12/-1.28	-2.68/-6.23	-2.53/-3.03	-4.20/-5.76	-6.68/-6.40	-5.66/-5.59	-6.34/-7.00	-7.12/-6.88	-5.08/-3.31	-3.34/-4.02	-4.22/-4.29	-4.49/-5.68	-5.43/-5.96	-5.00/-2.98	-2.59/-3.18	-3.71/-4.96	-6.40/-5.54	-4.74/-6.39	-6.37/-8.48	-9.96/-7.18	-5.12/-6.41	-7.08/-4.08			
Θ(120°)	-2.05/-3.29	-3.92/-3.06	-2.74/-3.23	-3.89/-4.44	-5.07/-5.79	-6.23/-6.04	-5.47/-4.94	-4.53/-4.45	-5.06/-6.04	-5.96/-5.67	-6.42/-6.71	-5.47/-3.85	-2.66/-2.85	-4.39/-5.80	-6.89/-9.65	-7.61/-4.54	-3.73/-3.94	-4.35/-5.54	-6.16/-4.86	-4.17/-5.80	-9.41/-10.04	-10.28/-9.71	-6.54/-5.42	-4.27/-2.41		
Θ(127.5°)	-3.49/-3.23	-2.98/-2.25	-2.07/-2.70	-3.71/-4.86	-5.91/-6.90	-7.04/-6.21	-5.23/-4.68	-4.94/-6.10	-8.06/-8.51	-7.08/-5.42	-4.55/-4.16	-4.06/-3.79	-3.97/-5.53	-7.32/-7.29	-8.11/-11.96	-13.65/-10.84	-8.38/-7.45	-8.06/-10.13	-12.18/-8.28	-6.22/-6.50	-6.82/-6.69	-5.29/-6.05	-6.54/-6.85	-6.78/-6.46		
Θ(135°)	-4.50/-4.04	-3.80/-3.61	-3.77/-4.82	-6.25/-6.74	-8.51/-8.36	-7.12/-5.70	-4.96/-5.12	-6.46/-9.02	-12.14/-10.24	-7.54/-5.98	-5.88/-6.61	-6.51/-5.07	-4.41/-4.70	-4.87/-4.93	-6.45/-10.96	-6.56/-4.62	-4.64/-6.51	-10.42/-13.05	-13.37/-12.54	-10.24/-7.48	-5.52/-4.99	-4.92/-5.01	-5.40/-5.24			
Θ(142.5°)	-7.18/-6.75	-4.75/-4.20	-4.16/-4.51	-4.98/-5.37	-5.85/-6.13	-6.15/-6.28	-6.78/-6.06	-9.55/-10.07	-8.13/-5.96	-4.50/-3.95	-4.31/-5.10	-5.37/-5.50	-6.41/-8.05	-9.08/-10.20	-13.85/-15.28	-11.17/-6.41	-3.22/-2.88	-3.37/-5.15	-7.47/-7.55	-7.85/-8.15	-8.03/-7.86	-6.55/-9.63	-6.77/-8.77			
Θ(150°)	-12.26/-10.17	-8.14/-7.02	-6.36/-5.93	-5.85/-5.71	-6.01/-6.78	-7.69/-8.42	-8.77/-8.34	-7.00/-5.54	-4.22/-3.32	-3.07/-3.59	-5.08/-6.79	-1.07/-14.51	-14.11/-10.62	-7.88/-6.86	-6.90/-7.15	-6.67/-5.35	-4.02/-4.99	-4.23/-6.27	-9.11/-9.31	-6.71/-4.51	-3.31/-2.87	-3.08/-3.73	-5.06/-7.08	-9.35/-12.11		
Θ(157.5°)	-6.46/-7.49	-7.68/-7.03	-6.03/-5.04	-4.23/-3.74	-3.73/-4.04	-4.42/-4.68	-4.72/-4.73	-4.56/-4.39	-4.49/-4.67	-5.38/-6.46	-8.02/-9.11	-8.71/-7.15	-5.75/-6.46	-4.44/-4.72	-5.20/-5.49	-5.16/-4.81	-4.35/-4.53	-5.67/-7.89	-10.74/-10.74	-7.27/-4.37	-2.55/-1.65	-1.50/-1.91	-2.67/-3.57	-4.48/-5.38		
Θ(165°)	-4.42/-5.11	-5.65/-5.71	-3.94/-4.97	-5.44/-4.24	-4.26/-4.49	-4.60/-4.68	-4.81/-4.97	-5.13/-5.35	-5.78/-6.12	-6.57/-7.12	-7.62/-7.36	-6.58/-6.78	-5.32/-5.32	-5.76/-6.54	-7.27/-7.19	-7.15/-6.65	-6.42/-6.78	-7.82/-9.26	-10.64/-10.30	-6.61/-6.18	-4.27/-3.14	-2.68/-2.84	-3.29/-3.65	-3.87/-4.06		
Θ(172.5°)	-5.75/-6.25	-6.73/-6.96	-7.03/-7.28	-7.63/-7.89	-8.38/-9.02	-9.37/-9.51	-9.71/-9.85	-9.90/-9.87	-9.80/-9.82	-9.98/-10.26	-10.60/-10.64	-10.48/-10.40	-10.56/-10.83	-11.85/-12.60	-12.83/-12.36	-11.61/-11.02	-11.01/-11.30	-11.78/-12.53	-12.29/-11.70	-10.37/-8.67	-7.17/-6.18	-5.78/-5.75	-5.85/-5.79	-5.64/-5.61		
Θ(180°)	-9.77/-10.24	-10.79/-11.31	-11.55/-12.47	-13.90/-15.16	-14.95/-15.90	-15.02/-16.02	-15.35/-15.40	-15.26/-15.54	-15.69/-14.91	-15.44/-15.25	-16.04/-15.30	-15.74/-15.28	-15.55/-14.87	-15.49/-15.45	-15.71/-15.94	-15.66/-15.05	-15.76/-15.30	-14.77/-15.62	-14.50/-13.01	-11.77/-10.80	-10.06/-9.69	-9.77/-10.18	-10.50/-10.23	-9.94/-9.75		
Freq(Hz)	5.2GPol.	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°)	0.680/4.9	0.670/7.8	0.610/5.3	0.490/4.4	-0.01/-0.34	-0.49/-0.77	-0.54/-0.16	-0.12/-0.41	-0.33/-0.30	-0.040/0.3	0.100/2.2	0.530/9.3	1.041/1.3	1.070/9.4	0.700/3.4	0.210/0.1	0.190/0.9	0.240/5.3	0.35/-0.16	-0.49/-0.32	0.090/1.9	-0.11/-0.11	0.090/0.2	0.100/4.0		
Θ(7.5°)	0.520/4.7	0.380/4.7	0.510/3.2	0.250/3.1	0.07/-0.41	-0.57/-0.84	-0.78/-0.15	-0.21/-0.66	-0.93/-0.51	-0.57/-0.29	0.080/1.8	0.590/3.5	0.27/-0.13	-0.17/-0.32	-0.71/-1.06	-1.62/-1.61	-1.28/-1.24	-1.57/-1.60	-1.59/-1.74	-1.77/-1.25	-0.92/-0.43	-0.20/0.3	0.350/2.2	0.400/4.2		
Θ(15°)	0.44/-0.09	-0.65/-1.02	-1.31/-1.67	-1.67/-1.19	-1.11/-1.34	-1.60/-1.54	-1.61/-1.17	-1.19/-2.04	-2.58/-2.10	-1.31/-0.64	0.100/1.9	-0.07/-0.90	-1.73/-2.61	-2.48/-2.57	-1.84/-1.54	-1.76/-1.93	-1.80/-1.21	-0.99/-1.02	-1.59/-1.80	-1.79/-1.82	-1.27/-1.11	-0.590/2.0	0.570/6.9	0.560/3.3		
Θ(22.5°)	0.811/0.8	0.960/0.9	0.970/7.5	0.520/0.6	-0.16/-0.65	-0.80/-1.32	-1.44/-0.88	-0.66/-1.13	-1.04/-0.03	1.031/7.4	3.021/3.0	0.21/-0.84	-1.51/-1.46	-1.25/-0.70	-0.51/-0.62	-1.52/-2.86	-3.00/-1.95	-0.98/-0.32	-0.31/-0.68	-1.04/-0.97	-1.04/-0.53	-0.40/-0.16	-0.050/1.9	0.310/3.6		
Θ(30°)	2.492/2.79	3.003/0.9	2.792/1.6	1.13/-0.03	-0.69/-1.22	-1.38/-1.86	-2.24/-1.53	-0.250/6.6	1.201/5.2	1.801/9.7	2.051/8.6	0.92/-0.23	-0.53/-0.24	0.37/-0.29	-1.33/-3.30	-4.90/-4.83	-4.19/-3.13	-1.54/-0.28	0.550/4.4	-0.51/-1.05	-1.31/-3.04	0.450/6.3	0.661/5.1	1.891/9.8		
Θ(37.5°)	2.462/5.2	2.943/2.0	3.012/2.4	0.75/-1.04	-2.34/-2.50	-1.49/-1.22	-1.63/-1.83	-0.35/-1.42	1.921/8.9	1.982/0.9	1.661/2.3	0.53/-0.36	-0.17/-0.32	-0.66/-3.87	-9.33/-9.53	-7.13/-6.05	-4.03/-2.32	-1.78/-1.37	-0.960/2.0	0.28/-0.23	-0.70/-0.75	0.030/3.4	1.082/3.6	2.832/6.0		
Θ(45°)	-0.21/-																									



Antenna Pattern of SC Ant1, SC Ant2, BLE Ant3

Appendix G

Θ(22.5°)	0.80/1.50	1.79/2.00	1.93/1.58	1.35/0.70	0.85/1.03	1.01/0.45	0.12/-0.27	-0.03/0.67	0.91/0.67	-0.03/-0.88	-1.38/-0.76	0.59/0.95	0.30/-0.24	-1.15/-2.35	-3.31/-3.11	-2.73/-2.40	-2.06/-1.87	-1.84/-1.50	-1.60/-2.17	-2.60/-1.72	-0.47/-0.06	-0.61/-1.01	-1.61/-0.94	-0.08/0.20
Θ(30°)	1.67/2.05	2.15/1.86	1.22/0.82	0.48/0.79	1.22/1.53	1.29/0.92	0.79/0.81	0.34/0.14	0.78/1.34	1.34/-1.30	1.54/-1.58	1.45/-1.29	0.10/-1.43	-1.94/-2.14	-1.77/-1.57	-1.96/-2.67	-4.00/-4.39	-3.31/-2.17	-1.62/-1.10	-1.55/-2.40	-1.66/-0.16	0.15/-0.58	-1.34/0.16	1.54/-1.49
Θ(142.5°)	1.13/1.76	2.36/2.05	1.45/0.66	0.11/0.34	1.01/1.25	1.17/1.51	1.87/1.75	0.91/1.05	1.89/2.52	2.25/-1.59	0.92/0.48	-0.58/-0.89	-1.64/-1.70	-2.01/-2.56	-4.01/-6.52	-8.07/-1.67	-6.83/-4.00	-2.43/-1.32	-1.28/-0.14	0.49/-0.47	-1.29/0.43	1.08/0.25	0.54/0.25	1.91/-1.30
Θ(45°)	-0.14/1.71	2.02/1.81	1.59/1.10	0.06/-1.10	-1.22/-0.16	1.41/2.42	2.44/2.27	1.77/1.57	2.37/3.39	3.23/2.13	0.55/-0.42	-1.57/-0.93	0.01/0.30	-1.21/-3.28	-5.76/-4.88	-3.70/-4.50	-5.34/-3.97	-2.55/-1.91	-0.51/-0.61	-1.72/0.55	-0.35/0.21	1.11/0.38	0.83/1.66	1.14/-0.57
Θ(52.5°)	-0.20/2.14	3.03/2.78	1.96/0.48	-1.34/-2.43	-0.31/-1.80	-0.67/1.48	2.82/2.76	1.93/1.44	2.06/3.31	3.25/-1.93	-0.19/0.75	1.44/2.38	2.27/1.19	0.72/-0.18	-1.68/-1.87	-1.58/-1.16	-1.01/-0.79	-0.70/-0.29	0.65/0.29	-0.54/0.27	0.77/1.10	0.83/0.49	0.31/0.05	-0.65/-1.84
Θ(60°)	1.27/2.89	3.21/2.56	1.58/-0.55	-1.44/-0.69	-0.17/-0.34	-1.60/-0.74	1.09/2.08	2.23/1.32	0.68/0.50	3.11/1.81	-0.66/0.01	-1.23/-2.67	2.19/1.33	-1.87/-2.36	-1.23/-2.87	-2.58/0.29	-2.09/-1.60	-1.47/-1.72	-2.33/-0.77	0.17/0.98	-1.38/-2.27	-1.17/-1.34	-0.76/-1.99	-1.17/-2.62
Θ(67.5°)	1.04/2.60	2.21/1.38	-0.13/-0.63	-0.98/-0.64	-0.32/-0.27	-0.90/-1.57	-0.65/0.48	1.16/1.27	1.30/1.98	1.54/-0.34	-1.29/0.73	2.15/2.52	1.08/-0.15	0.21/-0.84	-3.45/-0.92	-1.30/-4.64	-1.91/-0.40	1.68/0.43	-3.51/-2.61	-3.12/-2.50	0.15/-0.15	-2.88/-2.90	-1.70/-2.21	-3.50/-3.52
Θ(75°)	0.60/1.21	-0.11/-0.61	-1.12/-1.28	-0.97/-0.81	-0.36/-0.47	-0.32/-0.95	-1.19/-0.39	-1.08/0.15	0.81/1.25	0.30/-1.79	-3.24/-1.34	1.23/1.82	-1.15/-1.69	-1.02/-2.85	-5.03/-0.90	-0.08/-1.99	0.49/-0.74	1.55/-1.57	-2.72/-5.65	-3.25/-5.97	-1.65/-0.22	-3.27/-3.52	-3.69/-4.00	-3.30/-2.92
Θ(82.5°)	-0.75/0.37	-0.42/-1.18	-1.77/-2.14	-1.56/-1.91	-1.38/-1.17	-0.12/-0.50	-1.29/-1.73	-1.73/-1.39	-0.91/-0.10	-0.09/-2.89	-5.37/-2.27	-0.22/0.50	-1.81/-2.46	-3.03/-5.78	-6.64/-2.58	-2.69/-2.27	1.62/-0.32	0.45/1.89	-0.32/-3.32	-2.75/-7.19	-10.32/-8.89	-3.74/-5.17	-4.13/-4.68	-4.34/-3.84
Θ(90°)	-2.26/-0.78	-1.52/-2.40	-1.90/-2.61	-2.62/-3.21	-3.38/-3.25	-1.69/-1.18	-2.73/-1.81	-1.90/-1.94	-1.70/-1.15	-1.84/-4.32	-6.62/-3.68	-1.42/-1.26	-5.09/-3.72	-3.97/-7.68	-7.81/-6.20	-4.93/-2.58	0.86/1.21	-1.74/1.10	0.88/-2.92	-5.37/-7.46	-5.32/-4.58	-5.97/-6.61	-4.34/-4.85	-5.30/-6.40
Θ(97.5°)	-3.26/-2.08	-2.25/-2.52	-3.93/-4.15	-3.70/-4.05	-4.18/-5.43	-2.68/-1.71	-2.24/-2.52	-2.80/-3.10	-2.37/-1.68	-2.61/-5.52	-7.52/-4.86	-2.80/-2.77	-6.13/-5.92	-5.59/-6.10	-7.31/-7.90	-5.91/-4.42	-2.24/-3.97	-5.18/-2.05	-1.85/-4.80	-4.89/-10.44	-7.30/-5.95	-9.40/-7.07	-4.73/-5.90	-7.19/-5.90
Θ(105°)	-3.79/-2.97	-2.65/-3.19	-3.68/-4.78	-4.84/-5.02	-6.40/-7.79	-4.75/-2.51	-2.99/-2.28	-2.61/-3.89	-6.77/-2.52	-3.47/-7.28	-6.44/-6.27	-4.78/-4.62	-8.36/-6.04	-8.21/-7.95	-4.61/-5.08	-7.16/-6.85	-7.72/-9.64	-10.82/-7.34	-7.03/-4.32	-12.83/-9.75	-7.87/-14.30	-5.58/-5.52	-8.12/-6.65	
Θ(112.5°)	-4.64/-5.36	-4.26/-2.35	-3.58/-6.54	-5.84/-6.06	-7.73/-9.01	-6.44/-4.25	-3.24/-2.42	-3.72/-5.88	-4.61/-2.98	-4.67/-8.61	-8.84/-6.78	-5.42/-8.00	-6.70/-9.22	-9.33/-9.50	-6.19/-3.91	-3.88/-5.31	-5.16/-13.93	-13.83/-7.45	-7.47/-10.33	-7.58/-15.36	-10.24/-8.41	-13.59/-13.72	-7.86/-7.58	-9.32/-6.31
Θ(120°)	-5.64/-5.63	-6.43/-3.30	-3.69/-6.50	-5.74/-9.97	-7.52/-9.43	-8.65/-6.84	-4.30/-3.19	-3.98/-7.92	-7.44/-5.14	-6.42/-6.91	-9.24/-10.33	-7.58/-8.38	-5.89/-9.42	-11.49/-12.20	-15.09/-10.06	-7.28/-6.32	-4.93/-15.08	-9.52/-6.46	-5.92/-12.35	-12.58/-10.28	-8.86/-9.08	-13.21/-13.81	-12.49/-8.75	-6.76/-7.99
Θ(127.5°)	-7.41/-6.85	-6.15/-5.67	-4.63/-6.24	-6.49/-5.97	-7.08/-8.77	-7.66/-5.17	-4.63/-5.88	-7.83/-8.64	-9.38/-7.27	-6.98/-7.52	-8.82/-11.70	-11.01/-8.32	-8.89/-8.66	-7.96/-8.99	-7.11/-15.25	-9.23/-8.81	-9.53/-5.99	-5.78/-16.15	-4.77/-8.61	-10.78/-14.28	-10.56/-10.73	-9.77/-11.02	-7.65/-11.74	-9.80/-9.21
Θ(135°)	-7.15/-5.57	-5.65/-3.58	-3.22/-3.57	-5.99/-7.49	-10.75/-10.51	-6.63/-5.08	-5.17/-5.15	-5.41/-7.39	-9.70/-6.09	-6.56/-7.55	-10.91/-12.66	-9.46/-8.93	-8.95/-7.68	-5.13/-5.84	-5.85/-8.23	-7.39/-10.67	-10.76/-8.27	-7.54/-9.34	-15.06/-15.90	-10.63/-11.74	-9.48/-8.20	-12.14/-14.16	-6.95/-7.08	-7.51/-6.78
Θ(142.5°)	-4.88/-4.50	-5.47/-6.91	-6.77/-7.07	-7.64/-9.84	-11.03/-10.34	-8.00/-5.94	-7.01/-7.45	-4.16/-6.13	-7.09/-7.96	-7.09/-7.91	-9.22/-10.33	-7.58/-8.38	-9.85/-9.36	-9.59/-8.23	-7.09/-9.31	-10.47/-12.39	-12.81/-10.10	-5.76/-3.18	-3.86/-11.87	-9.15/-6.32	-7.42/-14.84	-12.11/-8.74	-6.24/-6.82	-10.35/-7.92
Θ(150°)	-4.47/-4.23	-4.50/-5.20	-8.14/-11.54	-13.97/-14.44	-15.73/-15.72	-13.51/-9.11	-5.02/-4.26	-8.93/-8.91	-7.57/-7.21	-7.34/-8.94	-8.98/-8.18	-9.35/-11.10	-9.38/-7.85	-8.79/-11.27	-14.98/-14.31	-10.17/-8.33	-8.56/-9.10	-10.98/-10.19	-11.66/-8.54	-8.37/-10.77	-9.85/-9.95	-8.63/-10.11	-14.19/-10.30	-6.13/-5.03
Θ(157.5°)	-10.77/-12.59	-11.79/-10.17	-9.30/-9.02	-9.20/-9.55	-8.74/-7.96	-7.70/-7.28	-5.73/-5.02	-6.01/-8.07	-10.43/-9.90	-10.13/-9.75	-7.63/-7.01	-8.91/-11.17	-8.85/-8.29	-8.25/-9.00	-9.92/-11.63	-11.94/-14.57	-14.97/-15.35	-11.37/-12.57	-14.07/-10.88	-8.46/-8.13	-9.74/-10.42	-9.66/-8.69	-8.48/-9.13	-9.70/-10.72
Θ(165°)	-6.72/-6.06	-6.08/-6.11	-6.48/-6.63	-6.80/-7.35	-8.19/-8.58	-7.61/-7.15	-7.61/-8.43	-7.76/-6.77	-6.93/-7.70	-9.01/-9.46	-9.73/-9.97	-11.06/-12.37	-11.99/-10.36	-10.42/-11.03	-12.83/-15.63	-15.48/-15.46	-11.50/-9.29	-9.80/-11.16	-11.98/-11.40	-10.67/-11.84	-13.20/-12.84	-12.77/-11.74	-9.66/-7.99	-7.61/-5.53
Θ(172.5°)	-14.80/-12.47	-14.14/-12.79	-12.77/-13.09	-13.15/-11.43	-10.22/-10.24	-11.00/-10.43	-8.65/-7.83	-7.54/-8.13	-8.66/-9.43	-10.34/-10.74	-10.95/-10.62	-10.99/-10.15	-9.42/-9.30	-9.42/-10.17	-11.72/-13.08	-13.18/-12.67	-13.44/-15.11	-15.33/-13.30	-12.73/-11.37	-10.66/-10.83	-10.15/-9.41	-10.17/-11.49	-12.51/-13.44	-13.92/-14.32
Θ(180°)	-13.21/-12.49	-13.23/-13.48	-14.20/-13.18	-13.12/-12.54	-12.91/-13.16	-12.64/-13.53	-13.92/-14.75	-14.82/-14.75	-15.51/-15.71	-15.60/-15.44	-13.64/-13.16	-14.02/-13.63	-12.19/-12.32	-13.33/-14.65	-14.39/-13.08	-13.19/-13.67	-13.54/-13.52	-12.54/-11.57	-11.72/-11.87	-12.07/-13.36	-13.74/-13.12	-12.98/-12.90	-12.40/-13.02	-15.05/-14.70
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°)	-0.59/-0.74	-0.57/-0.56	-0.99/-1.08	-0.89/-0.73	-1.01/-1.55	-1.46/-1.26	-1.04/-0.93	-0.86/-1.20	-1.39/-1.43	-1.35/-1.18	-1.30/-1.37	-1.46/-1.59	-1.59/-1.68	-1.72/-1.62	-1.19/-1.20	-1.70/-2.26	-1.65/-1.73	-2.01/-1.51	-1.23/-1.24	-1.46/-1.18	-1.42/-1.40	-0.94/-0.90	-0.69/-0.47	-0.77/-0.76
Θ(7.5°)	-2.66/-3.14	-3.15/-2.97	-2.92/-2.62	-2.18/-1.74	-1.50/-1.31	-0.88/-0.34	0.07/0.04	0.68/1.35	1.29/0.83	0.38/-0.05	-0.28/-0.44	-0.77/-0.92	-0.90/-0.52	0.24/0.76	0.96/0.87	0.65/0.55	0.68/0.74	0.42/0.02	-0.03/-0.23	-0.63/-1.08	-1.65/-2.22	-2.49/-2.68	-2.43/-2.28	-2.93/-2.49
Θ(15°)	-2.36/-2.87	-2.91/-2.63	-1.95/-1.15	-0.50/-0.15	-0.66/-0.93	-0.67/-1.17	-1.07/-0.18	0.51/1.32	1.78/1.88	1.61/0.89	-0.44/-1.51	-2.85/-3.34	-2.79/-1.88	-0.90/-0.22	0.18/0.41	0.38/-0.07	-0.20/0.36	0.60/-0.21	-1.25/-1.27	-2.12/-2.88	-3.99/-4.47	-4.84/-4.72	-3.53/-2.66	-2.24/-0.27
Θ(22.5°)	-0.46/-0.71	-1.18/-0.87	-0.06/0.53	0.92/0.60	0.35/-0.32	-1.04/-1.84	-1.94/-1.74	-1.45/-1.30	-0.54/0.28	0.53/0.25	0.24/-0.46	-1.57/-1.09	-0.71/-0.55	0.09/-0.05	-1.53/-3.18	0.43/-3.85	-3.34/-3.89	-4.21/-3.34	-2.69/-2.38	-2.78/-4.13	-6.41/-4.29	-6.11/-4.01	-1.90/-0.80	-0.90/-0.22
Θ(30°)	-0.91/-1.33	-2.17/-1.79	-1.14/-0.43	-0.07/0.28	0.69/0.83	0.80/0.89	0.81/0.91	0.62/-0.07	0.19/0.77	0.90/0.47	0.99/2.14	1.80/1.93	1.66/-1.32	1.43/-1.03	-3.53/-4.89	-4.88/-5.95	-6.31/-5.35	-4.77/-4.27	-4.81/-3.98	-3.08/-2.49	-1.71/-1.01	-1.07/-0.37	0.71/-0.16	
Θ(37.5°)	-0.06/-0.47	-1.13/-1.49	-1.69/-1.68	-1.79/-1.20	-0.21/0.48	0.62/1.09	2.28/2.29	0.22/0.32	2.20/2.63	1.12/0.38	1.41/2.14	1.80/1.75	1.67/1.43	1.31/1.11	-0.20/-2.02	-5.81/-1.41	-13.80/-14.43	-9.51/-4.62	-2.88/-2.54	-3.09/-1.75	-0.84/-0.45	0.18/-0.75	-1.02/-0.53	0.50/0.54
Θ(45°)	3.21/3.56	2.40/-4.02	1.80/-1.21	-1.82/-2.10	-1.80/-1.30	-0.42/0.53	1.25/2.17	2.27/2.19	2.04/1.18	1.02/2.27	2.53/-1.57	0.37/0.45	0.47/-0.02	0.04/-1.55	-2.32/-3.18	-4.33/-5.23	-6.75/-7.05	-10.66/-9.45	-4.40/-3.02	-2.10/0.21	1.51/-6.66	0.90/-0.55	-0.41/-0.54	-0.22/-1.41
Θ(52.5°)	4.21/3.81	2.61/1.60	0.45/-1.28	-2.95/-3.44	-0.88/0.39	-0.14/0.38	1.56/-1.95	2.19/2.03	1.26/0.33	2.01/3.59	2.84/0.97	1.30/2.51	1.66/0.43	-1.11/-2.07	-2.16/-1.87	-2.29/-2.74	-2.09/-1.28	-3.17/-5.93	-3.58/-3.64	-2.45/-1.78	2.04/-1.22	-1.10/-0.10	0.59/0.59	1.30/3.17
Θ(60°)	3.99/3.20	1.73/0.79	0.33/-0.91	-2.02/-1.77	0.29/1.32	1.00/1.34	1.10/-0.01	0.46/0.94	0.70/0.62	2.51/3.75	2.46/1.31	1.99/3.53	2.59/1.53	-0.20/-0.47	-1.06/-1.62	-1.38/-1.03	-1.83/-0.54	-0.89/-4.27	-3.77/-4.20	-3.91/0.12	0.35/-0.55	-2.08/0.56	1.45/1.53	1.29/3.51
Θ(67.5°)	3.66/2.06	0.83/0.30	0.25/-0.44	-1.34/-2.53	-0.94/0.37	-0.28/0.67	-0.91/-1.45	-0.98/-0.54	-0.49/1.64	3.17/2.94	1.11/1.31	3.25/3.90	2.00/0.41	-0.27/-0.11	-0.80/-0.76	-0.03/-1.86	-1.29/0.15	-4.04/-3.09	-3.05/-3.98	-3.79/-0.34	-1.08/-1.75	-1.53/-1.64	1.09/-0.24	1.08/3.36
Θ(75°)	2.68/1.61	1.63/-1.62	0.81/-0.08	-1.68/-2.27	-1.46/-0.15	-2.17/-0.46	0.38/-1.59	-1.05/-0.92	-0.85/-1.72	2.57/1.71	0.51/0.99	1.79/2.54	1.89/1.0											



Antenna Pattern of SC Ant1, SC Ant2, BLE Ant3

Appendix G

θ (75°)	-0.69148	-0.33/-0.07	0.23/-0.25	0.46/0.46	0.74/-1.29	-1.79/-0.31	1.41/0.48	-2.00/-3.46	1.47/1.51	0.63/0.49	0.06/-1.62	-3.55/-4.81	-3.46/-4.41	-4.21/-3.06	-1.36/-2.75	-1.53/-0.24	-0.23/2.29	3.14/0.42	-3.67/-2.26	0.11/0.35	1.00/-1.58	0.74/-0.48	-0.87/-3.81	-1.68/-0.88
θ (82.5°)	-2.26/0.51	-0.43/-0.62	0.27/-0.34	-0.21/-0.42	0.23/-0.64	-3.00/-1.03	1.19/-0.58	-2.98/-1.53	1.12/-1.32	-0.30/-0.05	-0.62/-3.37	-4.38/-7.26	-4.56/-8.48	-4.45/-5.22	-1.52/-5.78	0.50/-0.89	2.32/3.55	2.90/-0.78	-5.42/-2.94	-0.11/-1.09	-0.66/0.90	-0.87/-2.72	-4.65/-6.15	-3.48/-3.49
θ (90°)	-2.81/-0.51	-0.99/-0.00	0.18/-0.88	-0.12/-1.33	-0.44/-0.65	-3.15/-0.58	1.49/0.58	-3.76/-1.45	-0.74/0.26	-2.34/-0.65	-1.48/-4.46	-5.39/-8.31	-6.90/-5.40	-5.13/-10.98	-8.78/-1.75	-2.58/-1.43	2.72/1.96	-0.78/-1.91	-3.51/-1.98	0.36/-2.14	-3.41/-4.15	-5.76/-8.80	-5.07/-6.76	
θ (97.5°)	-2.94/-1.36	-1.10/-0.69	-1.11/-3.48	-2.50/-2.14	-2.05/-0.92	-3.98/-1.12	0.46/-0.82	-2.62/-3.89	-1.04/-0.66	-3.96/-1.69	-3.03/-5.57	-7.25/-11.75	-8.00/-8.67	-5.24/-11.30	-9.50/-5.65	-9.86/-5.94	-0.21/-4.20	-4.91/-6.39	-3.26/-2.97	-1.30/-5.13	-2.64/-3.65	-5.06/-5.20	-7.82/-12.20	-8.07/-7.81
θ (105°)	-3.26/-3.08	-3.15/-0.21	-2.62/-3.60	-3.04/-3.04	-2.78/-2.65	-3.12/-3.94	-1.07/-0.71	-2.60/-5.14	-1.84/-2.17	-4.22/-5.35	-4.34/-4.41	-6.52/-8.18	-10.75/-10.30	-10.30/-7.98	-8.58/-9.15	-10.29/-8.18	-6.31/-12.58	-10.30/-7.52	-3.12/-6.84	-5.65/-6.75	-4.72/-5.79	-5.50/-9.10	-10.78/-9.75	-0.98/-9.75
θ (112.5°)	-3.82/-2.51	-3.65/-3.01	-4.14/-6.31	-4.71/-1.79	-2.01/-4.23	-4.37/-3.16	-2.93/-0.98	-3.25/-5.59	-3.32/-3.96	-6.88/-4.76	-3.62/-7.53	-8.02/-8.83	-13.71/-15.56	-7.68/-6.26	-9.45/-5.47	-6.42/-9.66	-9.56/-11.48	-4.21/-11.28	-3.47/-7.96	-6.72/-10.89	-11.82/-10.14	-10.40/-8.82		
θ (120°)	-3.88/-3.16	-3.49/-3.88	-5.96/-6.27	-4.59/-2.20	-1.91/-4.85	-6.09/-6.00	-3.79/-1.52	-2.27/-2.82	-7.58/-4.93	-7.73/-5.57	-4.84/-8.38	-5.83/-8.98	-9.77/-12.19	-8.76/-13.08	-7.89/-14.88	-13.19/-6.88	-3.13/-10.52	-10.08/-6.96	-6.56/-2.24	-10.39/-8.28	-5.53/-6.64	-7.11/-15.62	-11.93/-9.75	-8.40/-5.34
θ (127.5°)	-5.30/-6.03	-7.49/-8.10	-7.69/-6.01	-4.68/-3.45	-2.10/-3.40	-10.08/-11.23	-8.51/-6.30	-2.61/-5.62	-8.50/-7.47	-6.38/-8.03	-7.23/-7.44	-5.98/-8.82	-7.09/-13.69	-9.09/-14.52	-5.89/-12.08	-11.93/-16.25	-11.97/-12.19	-15.22/-11.00	-9.55/-10.15	-14.05/-10.17	-10.15/-11.02	-14.33/-12.00	-11.47/-12.96	-8.29/-5.72
θ (135°)	-6.32/-7.79	-10.54/-8.81	-7.47/-5.08	-2.77/-2.79	-4.48/-5.81	-8.07/-9.47	-8.10/-4.06	-3.60/-4.72	-5.51/-6.13	-4.97/-7.04	-6.51/-9.07	-7.95/-10.30	-9.01/-14.94	-9.06/-7.03	-7.32/-11.41	-10.50/-9.52	-11.80/-8.54	-5.71/-7.06	-10.79/-11.48	-8.60/-8.91	-15.86/-11.34	-8.56/-9.57	-10.24/-11.40	-6.16/-7.72
θ (142.5°)	-7.43/-10.25	-10.95/-9.14	-5.56/-4.15	-3.59/-4.13	-6.27/-9.11	-9.93/-10.23	-9.86/-5.36	-2.72/-2.17	-4.93/-5.71	-6.00/-7.72	-7.72/-9.13	-10.44/-13.59	-10.61/-9.03	-9.04/-7.60	-7.69/-11.19	-9.49/-8.96	-7.68/-8.83	-6.06/-8.97	-11.64/-10.77	-10.85/-10.58	-8.11/-10.15	-15.43/-13.58	-13.04/-13.33	-7.92/-7.73
θ (150°)	-5.58/-4.60	-4.00/-4.44	-4.42/-6.41	-5.34/-6.70	-6.99/-8.52	-10.43/-15.71	-14.94/-9.24	-6.99/-6.40	-4.03/-6.16	-7.49/-6.10	-4.42/-5.47	-6.06/-5.91	-5.67/-8.13	-7.00/-8.32	-11.19/-9.55	-12.92/-13.02	-12.92/-9.23	-7.01/-11.19	-15.12/-13.27	-8.51/-7.11	-5.68/-5.72	-8.25/-8.89	-15.09/-9.93	-7.55/-5.65
θ (157.5°)	-4.34/-4.50	-3.75/-4.88	-6.04/-6.77	-8.67/-9.69	-10.06/-11.59	-14.00/-15.28	-13.85/-14.94	-6.40/-4.79	-4.22/-5.36	-9.32/-7.84	-4.48/-4.83	-4.89/-5.17	-4.89/-8.43	-15.93/-14.66	-13.47/-13.45	-13.91/-14.11	-11.52/-11.11	-10.76/-14.73	-14.99/-11.83	-9.43/-10.32	-8.05/-8.41	-8.38/-6.92	-8.19/-7.58	-7.36/-5.71
θ (165°)	-6.12/-5.80	-5.47/-5.87	-6.51/-7.42	-7.84/-8.15	-9.11/-11.14	-13.18/-14.50	-12.20/-10.14	-10.43/-10.01	-8.16/-8.25	-8.46/-9.10	-12.11/-12.34	-9.39/-9.37	-11.50/-11.94	-10.45/-12.04	-13.21/-12.74	-12.53/-12.45	-12.20/-12.57	-14.04/-13.36	-13.67/-13.74	-12.66/-10.19	-9.06/-9.67	-11.38/-12.84	-13.74/-10.51	-8.31/-6.82
θ (172.5°)	-11.32/-9.96	-9.37/-9.48	-10.13/-10.17	-9.50/-9.64	-11.32/-12.98	-13.35/-14.08	-14.25/-13.53	-12.31/-11.91	-13.19/-15.84	-15.55/-15.38	-15.54/-14.56	-13.16/-13.47	-13.12/-12.51	-13.03/-14.30	-15.30/-14.91	-15.97/-14.77	-14.91/-15.24	-14.89/-13.43	-13.06/-15.06	-16.15/-15.43	-15.58/-14.95	-13.52/-13.05	-12.22/-12.48	-13.34/-12.63
θ (180°)	-15.10/-16.09	-15.47/-15.61	-15.71/-14.47	-15.86/-15.76	-15.22/-15.57	-15.30/-15.28	-15.12/-15.54	-15.89/-15.88	-16.03/-14.64	-13.83/-13.10	-13.25/-13.33	-14.30/-16.00	-15.04/-13.33	-12.61/-14.65	-15.27/-15.33	-14.74/-15.49	-15.26/-15.21	-15.45/-16.16	-15.50/-15.54	-15.46/-15.86	-15.90/-15.43	-15.14/-14.93	-15.45/-15.49	-15.60/-15.16
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°)	-8.76/-8.77	-8.37/-7.82	-7.31/-6.79	-6.22/-5.73	-5.41/-5.49	-5.71/-5.83	-5.99/-6.44	-6.67/-6.68	-6.53/-6.42	-6.39/-6.42	-6.54/-6.94	-7.28/-7.23	-6.87/-6.38	-5.85/-5.41	-5.22/-5.15	-5.14/-5.03	-5.08/-5.33	-5.63/-5.57	-5.79/-5.81	-5.95/-6.31	-6.47/-6.32	-7.74/-8.04	-8.21/-8.26	-8.43/-8.56
θ (7.5°)	-6.22/-6.53	-6.84/-6.56	-6.43/-6.12	-5.73/-5.35	-5.21/-5.33	-5.51/-5.85	-6.34/-7.05	-7.87/-8.49	-8.81/-9.05	-9.09/-8.76	-8.36/-8.06	-7.77/-7.31	-6.87/-6.61	-6.35/-6.00	-5.63/-5.23	-4.87/-4.75	-4.85/-5.03	-4.95/-4.66	-4.32/-4.08	-4.07/-4.34	-4.68/-4.97	-5.16/-5.44	-5.62/-5.71	-5.82/-6.07
θ (15°)	-4.15/-4.61	-4.98/-5.11	-5.08/-4.95	-4.78/-4.69	-4.65/-4.77	-4.90/-5.13	-5.51/-5.93	-6.45/-7.30	-8.11/-8.77	-9.49/-9.56	-8.89/-8.05	-7.38/-6.70	-6.05/-5.89	-6.06/-6.07	-5.74/-5.07	-4.41/-4.01	-3.91/-3.87	-3.65/-3.29	-2.92/-2.72	-2.74/-3.02	-3.41/-3.65	-3.83/-3.87	-3.83/-3.72	-3.68/-3.88
θ (22.5°)	-3.26/-3.63	-3.85/-3.91	-3.85/-3.65	-3.45/-3.36	-3.31/-3.28	-3.31/-3.28	-3.42/-3.64	-4.12/-4.82	-5.79/-7.25	-8.17/-9.17	-8.42/-7.48	-6.81/-6.03	-5.28/-4.86	-4.88/-5.24	-5.40/-4.77	-3.78/-3.07	-2.75/-2.65	-2.92/-2.35	-2.19/-2.09	-2.25/-2.65	-3.13/-3.47	-3.65/-3.57	-3.32/-3.10	-2.95/-3.05
θ (30°)	-3.75/-3.63	-3.53/-3.44	-3.29/-3.01	-2.59/-2.20	-1.88/-1.57	-1.39/-1.44	-1.53/-1.74	-2.20/-3.11	-4.55/-6.58	-9.03/-9.95	-8.60/-7.07	-6.28/-5.83	-5.01/-4.08	-3.50/-3.52	-3.92/-3.93	-3.23/-2.49	-2.15/-2.06	-1.93/-1.74	-1.62/-1.67	-1.92/-2.22	-2.55/-2.88	-3.45/-3.85	-4.04/-4.06	-3.97/-3.88
θ (37.5°)	-5.96/-5.15	-4.48/-4.05	-3.56/-2.83	-2.02/-1.34	-0.87/-0.47	-0.36/-0.53	-0.83/-1.28	-1.87/-2.84	-4.72/-7.68	-11.57/-11.45	-8.64/-6.97	-6.62/-6.60	-5.75/-4.12	-2.87/-2.37	-2.55/-2.84	-2.64/-2.15	-1.78/-1.48	-1.15/-0.87	-0.82/-1.01	-1.22/-1.31	-2.40/-3.52	-4.81/-5.87	-6.51/-6.51	
θ (45°)	-9.31/-8.02	-6.82/-5.34	-4.03/-2.77	-1.83/-1.11	-0.60/-0.25	-0.23/-0.44	-0.93/-1.59	-2.11/-2.79	-3.79/-7.71	-7.70/-7.71	-6.51/-5.70	-5.58/-6.22	-6.90/-6.25	-4.33/-2.77	-2.92/-2.36	-2.60/-2.39	-1.91/-1.26	-0.52/-0.09	0.31/0.15	-0.08/-0.12	-0.14/-0.56	-1.69/-3.33	-5.26/-7.04	-8.76/-9.77
θ (52.5°)	-9.22/-8.24	-6.48/-4.64	-3.07/-2.24	-1.66/-1.17	-0.67/-0.24	0.00/-0.18	-0.70/-1.40	-2.12/-2.52	-3.06/-4.12	-5.16/-4.93	-3.95/-3.45	-3.34/-3.83	-5.13/-6.31	-5.08/-3.04	-1.95/-1.78	-1.98/-2.03	-1.71/-1.15	-0.30/-0.48	0.93/0.98	0.78/0.57	0.35/-0.28	-1.59/-3.45	-5.27/-6.51	-7.77/-8.91
θ (60°)	-7.17/-7.29	-6.13/-4.28	-2.76/-1.20	-1.80/-1.45	-0.78/-0.01	0.50/0.45	-0.18/-1.28	-2.32/-2.90	-2.84/-3.36	-4.57/-4.96	-4.18/-3.60	-3.24/-3.27	-4.32/-6.29	-6.21/-4.19	-2.65/-2.04	-1.70/-1.08	-0.45/-0.20	-0.44/0.37	0.87/1.11	1.12/2.82	0.85/0.16	-1.11/-7.20	-3.96/-6.41	-5.30/-6.36
θ (67.5°)	-6.91/-8.26	-7.30/-4.89	-2.75/-1.96	-1.93/-1.51	-0.54/0.48	1.01/0.70	-0.35/-1.76	-2.38/-2.31	-1.69/-2.13	-3.72/-4.93	-5.41/-5.89	-5.35/-5.85	-5.91/-7.86	-7.81/-5.30	-3.61/-3.24	-2.72/-1.09	0.23/0.60	0.93/0.54	0.51/0.54	0.28/-0.56	-1.73/-2.80	-3.46/-3.71	-4.12/-5.26	
θ (75°)	-8.26/-10.10	-7.31/-3.99	-2.28/-2.42	-3.26/-2.78	-0.95/0.57	1.11/0.72	-0.31/-1.12	-0.91/-0.49	-0.80/-1.95	-3.48/-4.07	-4.63/-6.51	-7.12/-5.77	-5.76/-7.21	-7.71/-4.89	-2.65/-2.57	-3.54/-2.68	-0.94/-0.12	0.04/0.12	0.40/0.51	0.34/0.21	-0.13/-1.17	-2.59/-3.44	-3.77/-3.82	-4.27/-5.82
θ (82.5°)	-8.40/-9.62	-6.78/-4.21	-3.25/-3.86	-4.32/-2.55	-0.24/-1.17	1.38/0.63	-0.51/-1.30	-1.21/-1.30	-2.57/-4.45	-5.24/-4.91	-5.92/-10.11	-9.46/-6.22	-5.87/-7.28	-7.12/-4.35	-2.39/-2.26	-3.05/-2.61	-1.30/-0.49	-0.45/-0.71	-0.72/-0.65	-0.56/-0.19	-0.07/-0.83	-2.14/-3.26	-3.85/-4.11	-4.63/-6.24
θ (90°)	-7.33/-9.49	-7.74/-4.56	-2.92/-1.34	-3.77/-2.82	-1.05/0.03	-0.14/-1.18	-2.31/-2.75	-2.63/-2.93	-4.61/-6.12	-5.74/-5.51	-7.11/-11.67	-8.77/-5.48	-5.61/-7.13	-6.75/-4.52	-2.88/-2.98	-4.15/-3.57	-1.86/-0.76	-0.30/-0.10	-0.07/-0.66	-1.71/-2.03	-1.91/-2.44	-3.39/-4.02	-4.11/-3.85	-3.92/-5.06
θ (97.5°)	-9.26/-13.26	-10.53/-6.73	-3.91/-4.51	-5.21/-3.60	-1.64/-0.95	-1.56/-2.74	-3.37/-3.78	-4.12/-4.79	-5.83/-5.94	-5.47/-5.56	-7.07/-11.37	-8.30/-6.75	-8.38/-8.98	-7.36/-4.79	-3.16/-3.82	-5.61/-4.63	-2.68/-1.81	-1.66/-1.21	-0.56/-0.65	-1.28/-1.62	-1.79/-2.60	-3.91/-4.73	-4.89/-4.49	-4.71/-6.15
θ (105°)	-13.20/-14.41	-9.01/-4.70	-3.26/-3.90	-4.92/-4.13	-2.65/-2.12	-2.65/-3.06	-2.95/-3.00	-3.40/-4.28	-5.86/-6.45	-6.04/-5.54	-6.55/-9.15	-7.15/-6.35	-8.33/-8.41	-6.88/-3.89	-2.08/-2.77	-5.97/-7.34	-4.66/-2.83	-2.17/-2.01	-1.90/-2.17	-2.52/-2.39	-2.27/-2.89	-4.02/-4.71	-5.08/-5.63	-6.85/-9.45
θ (112.5°)	-12.83/-12.81	-8.02/-4.49	-3.97/-6.03	-8.71/-6.23	-3.39/-1.90	-1.65/-1.94	-2.41/-3.13	-4.22/-6.11	-7.84/-7.46	-6.04/-5.50	-7.06/-7.92	-6.48/-7.82	-11.25/-10.58	-7.16/-4.35	-1.58/-1.97	-4.21/-6.45	-6.57/-5.43	-3.62/-2.03	-1.63/-2.84	-4.08/-4.04	-3.45/-3.47	-3.86/-3.94	-3.94/-4.51	-6.20/-9.15
θ (120°)	-12.84/-11.33	-7.12/-4.39	-4.00/-5.35	-5.70/-3.86	-2.22/-1.71	-2.45/-4.00	-5.26/-5.31	-5.37/-5.84	-5.95/-5.49	-5.42/-5.82	-7.19/-6.29	-4.65/-5.40	-8.41/-10.75	-9.48/-6.18	-4.02/-3.36	-3.56/-3.71	-3.71/-5.20	-3.13/-3.76	-1.91/-2.05	-3.80/-5.48	-5.64/-5.41	-3.52/-5.19	-5.13/-5.77	-7.57/-10.68
θ (127.5°)	-10.63/-9.37	-6.52/-4.71	-4.71/-6.00	-5.83/-4.09	-3.12/-3.26	-4.26/-5.32	-5.08/-4.20	-3.87/-4.19	-4.65/-5.31	-6.39/-6.23	-9.89/-8.00	-6.60/-7.56	-8.15/-6.38	-4.7										



Antenna Pattern of SC Ant1, SC Ant2, BLE Ant3

Appendix G

Θ (127.5°)	-5.99/-11.31	-6.76/-7.25	-11.20/-5.03	-5.72/-9.31	-5.98/-6.94	-11.42/-12.83	-10.67/-7.64	-9.26/-10.60	-8.56/-10.14	-13.21/-12.74	-12.25/-5.70	-11.39/-12.65	-11.99/-11.28	-11.69/-8.43	-10.57/-8.03	-7.33/-5.00	-4.91/-5.93	-8.02/-4.97	-0.70/-1.53	-4.47/-11.31	-9.93/-9.66	-3.77/-4.74	-8.51/-8.61	-8.41/-6.92
Θ (135°)	-4.76/-5.58	-7.07/-4.69	-7.66/-8.57	-5.90/-6.90	-8.23/-7.78	-7.63/-6.71	-8.32/-9.91	-9.18/-10.77	-12.03/-11.42	-13.74/-14.14	-10.66/-7.52	-8.66/-8.80	-6.53/-15.65	-9.75/-7.26	-10.95/-9.69	-7.49/-4.74	-5.33/-4.71	-5.05/-5.23	-2.62/-2.11	-6.12/-9.70	-14.22/-12.33	-7.35/-4.82	-8.58/-6.96	-6.61/-5.94
Θ (142.5°)	-6.05/-5.55	-6.80/-6.71	-5.33/-6.75	-8.91/-9.11	-9.12/-10.35	-10.92/-13.50	-16.47/-12.54	-9.61/-8.60	-8.66/-8.64	-9.31/-10.67	-11.21/-15.08	-9.61/-7.79	-10.95/-10.59	-7.41/-12.69	-14.44/-12.59	-10.75/-4.38	-4.81/-8.38	-8.05/-6.28	-3.71/-3.08	-6.30/-9.75	-11.64/-11.00	-8.93/-7.82	-8.69/-8.98	-8.15/-7.57
Θ (150°)	-7.55/-7.48	-8.97/-8.39	-5.29/-3.71	-5.47/-8.03	-9.99/-11.32	-11.62/-12.17	-11.32/-10.51	-10.39/-11.35	-10.18/-8.36	-8.45/-8.53	-8.88/-10.17	-10.03/-10.06	-14.29/-12.25	-8.09/-9.79	-10.38/-12.69	-13.00/-11.58	-9.19/-10.64	-10.75/-9.06	-8.73/-9.78	-10.19/-9.20	-7.83/-7.56	-8.23/-10.30	-12.73/-10.91	-10.83/-10.21
Θ (157.5°)	-13.87/-12.40	-10.48/-8.30	-8.05/-8.35	-6.93/-5.22	-5.37/-6.16	-7.19/-9.14	-10.51/-11.40	-13.07/-15.61	-15.39/-15.44	-14.94/-13.53	-12.65/-13.68	-14.90/-15.06	-14.87/-11.04	-9.93/-8.35	-8.29/-10.72	-12.80/-11.57	-9.23/-9.20	-11.37/-10.82	-8.64/-7.54	-7.70/-8.73	-8.33/-9.45	-11.62/-14.44	-14.83/-15.28	-15.23/-15.66
Θ (165°)	-6.43/-5.62	-5.56/-5.95	-6.91/-7.45	-7.27/-6.26	-6.40/-6.51	-7.17/-8.69	-11.39/-13.42	-12.88/-11.28	-10.19/-10.36	-11.42/-12.89	-14.46/-14.38	-14.04/-10.30	-9.75/-3.90	-7.73/-7.34	-11.18/-10.07	-10.14/-10.34	-9.77/-9.13	-10.39/-11.76	-12.39/-12.30	-12.82/-14.22	-14.31/-10.90	-8.77/-7.72		
Θ (172.5°)	-11.10/-9.85	-8.75/-8.52	-7.91/-6.24	-5.40/-5.87	-7.62/-10.74	-13.18/-13.82	-13.98/-13.61	-12.62/-11.52	-10.49/-9.79	-10.17/-11.83	-14.73/-14.82	-15.08/-13.41	-13.11/-11.80	-10.34/-10.10	-10.45/-11.26	-13.34/-13.13	-11.89/-10.86	-10.17/-10.00	-10.19/-10.79	-11.50/-12.17	-12.20/-12.87	-13.60/-11.75	-10.27/-10.23	-11.07/-10.69
Θ (180°)	-8.92/-8.64	-9.98/-9.65	-8.72/-8.29	-8.60/-8.83	-10.01/-11.40	-12.56/-15.29	-14.76/-13.36	-11.22/-9.79	-8.86/-9.03	-8.96/-8.51	-8.05/-7.42	-7.76/-8.11	-8.85/-8.96	-8.81/-9.50	-9.67/-9.27	-8.95/-8.82	-9.01/-9.38	-9.21/-9.36	-8.35/-8.23	-8.56/-8.70	-8.58/-8.46	-8.26/-8.15	-9.66/-10.41	-10.23/-8.05
Freq(Hz)	5.785GPol.	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°)	-2.55/-2.31	-2.63/-2.90	-2.63/-2.41	-2.98/-3.29	-3.53/-3.44	-3.63/-3.63	-3.28/-3.01	-3.12/-2.70	-2.61/-3.11	-3.60/-3.37	-3.08/-3.35	-3.03/-2.74	-2.65/-2.93	-2.08/-1.79	-1.85/-1.84	-1.47/-1.39	-1.32/-1.32	-1.63/-1.75	-1.85/-2.71	-2.51/-2.36	-2.74/-2.49	-2.52/-2.45	-2.60/-2.27	-2.61/-2.46
Θ (7.5°)	-1.90/-1.74	-1.28/-1.25	-1.36/-1.15	-1.05/-0.60	-0.74/-1.05	-1.13/-1.50	-1.56/-1.78	-2.19/-2.35	-2.40/-3.25	-4.40/-4.98	-4.68/-4.36	-4.26/-4.39	-4.00/-4.37	-3.81/-3.27	-3.68/-3.83	-3.75/-3.58	-3.74/-3.62	-2.36/-2.13	-1.55/-1.29	-1.39/-1.43	-1.42/-1.31	-1.76/-2.08	-2.21/-2.09	
Θ (15°)	-1.88/-1.61	-2.34/-2.53	-2.32/-1.75	-0.98/-0.98	-1.10/-1.17	-1.93/-2.79	-1.51/-3.74	-2.78/-2.35	-2.73/-3.34	-4.68/-5.78	-6.57/-7.15	-8.02/-9.30	-10.01/-10.13	-7.55/-5.32	-4.08/-3.42	-4.38/-4.98	-4.71/-3.16	-2.18/-1.37	-0.44/-0.04	0.08/-0.37	-1.37/-1.76	-2.15/-2.51	-2.49/-2.29	
Θ (22.5°)	-2.42/-1.29	-1.02/-1.08	-1.78/-2.38	-2.04/-1.43	-0.86/-1.57	-3.40/-4.35	-2.49/-0.90	-0.51/-1.09	-2.74/-5.33	-7.93/-8.46	-8.82/-9.13	-7.99/-7.97	-7.52/-7.12	-6.49/-5.06	-4.10/-3.55	-4.05/-4.53	-4.70/-4.52	-4.22/-4.16	-3.68/-2.68	-2.34/-2.40	-3.22/-4.01	-4.61/-5.59	-6.27/-5.59	-4.86/-4.14
Θ (30°)	-2.50/-2.25	-0.93/-0.16	0.07/-0.92	-2.67/-2.17	-0.63/-1.43	-4.28/-4.41	-1.300/-17	-0.81/-3.88	-6.54/-6.30	-4.69/-4.48	-4.47/-3.10	-2.75/-3.91	-4.30/-4.46	-3.67/-3.38	-2.42/-2.18	-2.75/-2.48	-0.85/-1.11	-1.10/-2.57	-2.59/-3.28	-3.11/-1.98	-1.97/-0.84	-0.07/-0.30	-1.18/-2.17	
Θ (37.5°)	0.490/-7	1.090/85	0.890/64	0.783/-248	-0.59/-107	-3.04/-2.10	-0.130/-14	-0.60/-1.18	-1.08/-1.55	-1.59/-2.21	-2.81/-3.49	-4.95/-4.95	-6.92/-4.87	-2.78/-2.68	-2.250/-19	0.830/-49	1.442/-01	1.750/89	0.340/-27	-0.66/-0.56	-0.81/-0.14	0.071/-00	1.230/98	
Θ (45°)	0.830/72	0.350/58	1.462/03	0.163/-55	0.64/-0.61	-1.930/-07	0.310/-15	0.880/-48	-1.58/-3.76	-3.12/-2.80	-3.24/-4.21	-8.91/-9.49	-4.61/-2.03	-2.49/-2.55	1.211/06	-1.091/-62	1.62/-0.24	0.722/-51	2.321/-37	1.260/-97	0.991/-13	-0.53/-2.08	-2.40/-1.07	0.060/-57
Θ (52.5°)	-0.28/-0.74	-1.60/-1.15	0.122/-23	2.100/-34	0.31/-2.72	-2.090/-36	-1.80/-2.93	-0.47/-0.59	-2.21/-1.03	0.400/-16	-1.53/-1.82	-3.60/-3.30	-4.02/-0.81	1.041/04	3.732/-83	-1.480/-76	1.63/-0.87	0.062/-74	2.670/-88	0.310/-22	-0.110/-72	0.111/-189	-2.03/-1.35	-1.04/-0.70
Θ (60°)	-0.490/-50	-1.52/-1.29	-0.440/-78	1.640/-26	0.49/-2.61	-3.46/-1.07	-0.01/-5.09	-1.48/-1.05	-0.971/-81	2.841/-63	-1.31/-1.08	-2.43/-1.79	-2.19/-3.84	0.20/-0.09	2.643/-49	0.350/-29	0.76/-1.38	-1.052/-34	2.671/-84	0.030/-19	-0.20/-0.25	-0.20/-1.95	-2.79/-2.45	-2.05/-1.41
Θ (67.5°)	-0.361/-46	-0.42/-0.06	-0.10/-0.55	0.35/-0.88	0.03/-1.87	-4.00/-2.56	-5.06/-6.02	-2.76/-2.86	-2.031/-53	3.260/-99	-0.680/-18	-1.89/-2.47	-1.19/-5.23	-0.65/-0.39	1.962/-43	1.251/-30	-0.010/-46	1.273/-09	2.250/-95	-0.80/-0.50	0.111/-027	-0.53/-2.06	-4.63/-4.89	-3.90/-2.22
Θ (75°)	-1.910/-81	-0.14/-0.00	-0.19/-1.06	-1.17/-1.94	-0.17/-1.26	-3.48/-4.17	-5.52/-6.96	-6.05/-6.27	-4.15/-0.05	3.060/-39	-0.330/-69	-1.50/-3.46	-2.35/-3.77	-2.11/-1.84	-0.241/-41	0.311/-52	0.330/-93	1.072/-83	2.722/-30	0.76/-0.45	-0.50/-2.13	-3.50/-5.25	-10.47/-8.19	-2.87/-3.98
Θ (82.5°)	-1.950/-00	-0.19/-0.68	-1.10/-2.46	-4.78/-2.36	-0.14/-1.38	-3.68/-6.07	-7.43/-10.79	-6.01/-9.02	-8.74/-1.67	1.45/-2.12	-2.050/-04	-2.88/-4.53	-3.15/-5.45	-2.46/-5.40	-1.880/-42	-1.541/-64	-0.39/-0.05	0.122/-04	2.242/-38	0.38/-0.77	-1.07/-2.81	-4.04/-5.89	-12.52/-8.55	-3.02/-4.28
Θ (90°)	-0.34/-0.87	0.16/-0.51	-1.76/-4.58	-5.95/-2.33	-1.19/-2.41	-3.22/-6.07	-7.10/-10.90	-7.56/-7.90	-10.77/-3.04	-1.51/-5.19	-4.89/-3.27	-5.71/-4.11	-4.94/-5.57	-6.19/-5.85	-5.32/-1.36	-2.69/-0.06	-1.79/-3.21	-1.780/-70	1.767/-07	-1.74/-1.33	-1.79/-3.21	-1.059/-7.93	-4.21/-3.52	
Θ (97.5°)	-0.70/-2.59	-0.93/-0.96	-2.95/-5.28	-7.94/-3.27	-2.09/-3.40	-3.67/-8.50	-6.86/-8.56	-6.56/-7.42	-10.53/-6.64	-3.20/-5.67	-6.98/-4.96	-6.55/-10.83	-4.83/-9.07	-8.32/-9.04	-6.38/-3.56	-5.02/-3.99	-4.23/-4.44	-4.73/-3.65	-1.02/-1.32	-3.41/-2.79	-3.85/-2.83	-3.09/-5.00	-10.43/-6.87	-4.39/-2.99
Θ (105°)	-1.62/-2.92	-2.54/-3.28	-4.96/-5.01	-10.18/-0.45	-3.45/-3.96	-4.03/-7.00	-6.01/-7.89	-7.12/-9.45	-10.00/-5.00	-4.65/-4.32	-5.49/-4.35	-9.11/-9.84	-8.94/-8.54	-6.80/-9.66	-7.72/-6.61	-6.34/-6.95	-7.80/-7.52	-0.50/-2.54	-5.29/-3.91	-4.30/-4.62	-2.36/-4.99	-8.04/-7.33	-6.34/-2.71	
Θ (112.5°)	-4.02/-4.53	-2.61/-4.05	-8.39/-6.11	-9.66/-5.14	-5.75/-6.05	-5.70/-4.69	-5.90/-10.42	-10.78/-10.12	-9.62/-12.48	-5.71/-3.82	-6.70/-4.17	-6.22/-14.33	-12.52/-4.38	-9.78/-6.04	-5.54/-6.98	-4.15/-4.89	-5.01/-7.02	-0.95/-1.89	-2.60/-4.77	-5.00/-3.52	-1.77/-3.72	-1.059/-9.91	-6.35/-1.39	
Θ (120°)	-4.92/-0.44	-3.13/-4.80	-7.58/-8.39	-8.70/-5.03	-6.01/-7.58	-7.74/-5.51	-6.88/-9.56	-9.08/-12.88	-9.67/-14.37	-10.24/-9.42	-13.70/-7.62	-6.91/-14.00	-12.14/-3.96	-12.41/-8.60	-7.97/-8.04	-7.38/-4.62	-4.21/-4.58	-4.46/-2.10	-1.34/-0.79	-1.68/-8.33	-7.52/-4.86	-2.83/-8.29	-10.85/-9.95	-5.90/-3.10
Θ (127.5°)	-5.74/-5.05	-3.08/-11.83	-8.62/-5.75	-10.38/-7.69	-5.22/-6.67	-10.07/-9.86	-15.51/-8.22	-8.26/-8.79	-7.72/-9.34	-12.16/-9.86	-6.84/-7.11	-15.12/-14.04	-14.96/-10.21	-12.23/-8.60	-10.60/-10.15	-10.98/-3.77	-6.15/-5.13	-9.49/-5.48	-4.82/-13.99	-8.42/-5.24	-3.59/-8.14	-10.40/-5.31	-6.41/-5.18	
Θ (135°)	-3.79/-4.79	-6.39/-6.07	-7.27/-6.24	-6.77/-8.44	-7.97/-8.26	-7.43/-5.09	-7.25/-12.80	-9.96/-8.72	-8.57/-9.57	-10.85/-9.59	-7.80/-8.98	-4.08/-10.97	-13.31/-14.79	-10.36/-7.38	-5.92/-9.91	-11.58/-3.90	-6.62/-7.17	-7.45/-6.66	-2.43/-6.10	-7.16/-9.04	-13.65/-12.03	-6.92/-8.09	-9.33/-6.42	-5.69/-6.62
Θ (142.5°)	-5.69/-7.26	-7.48/-5.37	-4.11/-5.84	-6.78/-6.07	-5.54/-6.47	-8.92/-12.04	-11.63/-12.66	-12.57/-11.39	-8.46/-7.84	-8.26/-11.62	-10.81/-10.47	-9.53/-9.24	-8.54/-10.41	-12.01/-15.02	-14.58/-14.91	-8.65/-5.81	-7.25/-7.89	-8.45/-9.51	-4.14/-4.56	-9.27/-13.48	-15.83/-12.00	-8.81/-7.64	-7.57/-7.20	-6.89/-6.10
Θ (150°)	-6.49/-7.74	-13.69/-10.58	-5.88/-4.57	-6.45/-8.52	-9.28/-10.32	-12.47/-11.82	-10.32/-9.55	-8.92/-9.46	-10.95/-8.84	-7.28/-8.62	-7.60/-8.68	-11.50/-11.38	-13.00/-12.51	-10.64/-7.97	-7.90/-9.04	-14.21/-12.57	-9.53/-7.56	-6.77/-9.05	-11.52/-12.33	-10.84/-8.53	-7.28/-7.63	-8.52/-10.62	-13.13/-13.13	-11.66/-8.79
Θ (157.5°)	-12.55/-14.86	-10.46/-7.52	-7.53/-8.85	-8.33/-6.10	-4.66/-4.45	-5.43/-7.12	-8.50/-9.53	-10.57/-12.55	-14.48/-14.45	-13.60/-11.33	-9.86/-12.77	-13.38/-11.26	-13.13/-15.75	-10.31/-7.66	-8.15/-11.97	-14.48/-12.61	-9.99/-9.53	-9.62/-9.27	-8.88/-8.60	-9.06/-11.02	-12.46/-14.41	-10.34/-8.88	-8.77/-10.31	
Θ (165°)	-7.99/-6.58	-6.40/-5.67	-5.07/-5.51	-6.17/-6.03	-5.59/-5.51	-6.49/-7.94	-11.10/-14.85	-15.51/-14.01	-11.39/-10.08	-10.33/-10.72	-11.56/-10.56	-15.80/-14.37	-14.77/-9.57	-6.72/-6.23	-7.74/-10.20	-12.73/-13.59	-14.32/-12.91	-12.27/-12.99	-12.79/-12.78	-11.03/-11.03	-11.84/-13.11	-14.98/-15.92	-15.40/-14.58	-13.64/-10.85
Θ (172.5°)	-10.88/-8.69	-8.05/-6.72	-6.77/-6.52	-6.57/-7.08	-8.25/-9.75	-11.77/-15.11	-15.12/-12.46	-11.53/-10.69	-9.18/-7.79	-7.54/-7.88	-8.66/-9.53	-11.00/-14.77	-15.00/-12.49	-11.06/-10.15	-10.72/-11.57	-12.96/-13.97	-15.71/-15.68	-15.34/-14.04	-14.62/-15.52	-15.36/-16.35	-14.68/-13.57	-12.96/-12.92	-10.97/-10.24	-10.96/-10.70
Θ (180°)	-7.74/-7.19	-7.30/-7.73	-7.96/-8.56	-9.14/-8.58	-9.02/-9.40	-10.92/-11.76	-12.02/-13.07	-13.46/-11.62	-10.05/-9.75	-16/-8.40	-7.29/-6.57	-6.42/-6.55	-6.78/-7.21	-8.05/-8.										



Antenna Pattern of SC Ant1, SC Ant2, BLE Ant3

Appendix G

Θ (172.5°)	-7.77/-7.92	-7.98/-8.64	-9.10/-9.38	-9.79/-9.38	-9.78/-11.19	-11.76/-13.17	-14.18/-14.21	-14.66/-14.74	-14.31/-13.81	-15.10/-15.27	-15.20/-14.56	-16.33/-14.15	-14.19/-15.00	-15.33/-15.87	-14.70/-14.70	-15.08/-15.68	-15.40/-14.90	-13.24/-13.65	-13.58/-13.05	-12.13/-10.83	-10.79/-10.15	-10.52/-9.04	-7.30/-7.31	-7.28/-7.93	
Θ (180°)	-10.05/-9.26	-8.95/-8.97	-8.86/-9.38	-9.83/-10.57	-10.40/-12.19	-12.62/-14.20	-14.57/-13.81	-13.45/-14.57	-12.94/-11.38	-10.66/-9.11	-8.77/-8.69	-9.69/-9.45	-9.19/-9.98	-10.41/-10.13	-10.20/-10.69	-10.86/-11.14	-11.29/-10.39	-10.27/-10.09	-9.63/-9.90	-9.31/-9.03	-9.44/-9.90	-11.00/-11.17	-10.42/-9.58	-9.22/-9.82	
Freq(Hz)	6.995GPol.	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°)	-5.38/-5.02	-4.79/-4.52	-5.53/-5.44	-4.93/-3.84	-3.46/-3.56	-3.56/-3.55	-3.18/-4.07	-4.20/-4.26	-4.59/-4.34	-3.83/-4.20	-4.40/-3.96	-3.87/-4.62	-4.83/-4.33	-4.57/-3.98	-3.49/-3.73	-3.32/-3.41	-4.00/-3.79	-3.85/-4.14	-4.27/-3.96	-4.28/-4.54	-4.65/-5.11	-5.63/-5.46	-5.57/-5.20	-4.84/-4.94	
Θ (7.5°)	-2.40/-2.17	-2.54/-2.73	-3.06/-3.68	-4.55/-4.95	-4.74/-4.05	-4.02/-4.23	-4.27/-4.19	-4.88/-5.28	-5.89/-6.38	-6.96/-7.47	-7.44/-7.47	-6.78/-6.22	-6.51/-6.01	-5.42/-4.81	-4.29/-4.16	-3.76/-3.47	-2.95/-2.17	-1.55/-1.62	-2.03/-2.18	-1.70/-1.48	-1.61/-1.39	-1.55/-1.62	-2.17/-2.41	-2.17/-2.22	-2.74/-2.64
Θ (15°)	0.01/0.04	0.11/0.28	0.28/0.38	-1.52/-2.10	-2.42/-2.27	-1.88/-1.33	-1.15/-1.94	-3.27/-3.64	-4.40/-4.79	-4.27/-3.79	-3.25/-3.36	-3.92/-4.80	-6.33/-8.55	-6.48/-5.50	-5.77/-5.31	-5.95/-6.10	-4.80/-3.53	-2.96/-2.79	-2.87/-3.57	-4.01/-3.88	-3.66/-3.38	-3.40/-2.85	-1.60/-0.50	0.01/-0.02	
Θ (22.5°)	1.55/1.35	0.79/0.91	0.79/-0.14	-0.28/0.09	0.18/0.21	-0.40/-1.16	-1.98/-2.61	-2.10/-1.07	-0.44/-0.43	-1.00/-1.42	-2.00/-3.20	-3.92/-4.58	-6.48/-9.95	-11.54/-8.98	-5.63/-3.21	-3.34/-3.78	-2.55/-1.54	-2.03/-4.22	-5.27/-4.08	-2.36/-1.95	-2.68/-4.14	-5.18/-5.13	-4.84/-3.23	-1.33/0.66	
Θ (30°)	-1.81/-0.49	0.32/1.29	1.26/0.54	0.47/0.59	0.26/-0.51	-0.18/-0.00	-1.13/-1.18	0.68/1.25	0.88/-0.29	-2.27/-4.18	-6.25/-7.43	-7.63/-7.43	-9.20/-8.91	-7.35/-6.46	-5.78/-3.64	-3.65/-3.56	-1.51/-0.48	-2.08/-4.13	-1.67/0.59	0.68/-1.01	-3.15/-3.61	-1.64/-1.96	-3.31/-5.20	-6.28/-4.12	
Θ (37.5°)	0.53/1.43	1.29/1.48	1.90/0.93	0.13/1.67	1.02/-0.39	1.22/0.59	-2.19/-0.79	1.20/0.87	0.72/0.31	0.20/0.19	-0.14/-1.59	-2.30/-4.69	-8.97/-6.07	-4.03/-5.07	-4.59/-2.21	-0.80/0.17	2.50/2.89	1.28/1.28	2.42/2.39	1.74/-0.49	-2.11/-3.23	-1.56/-2.06	-2.36/-1.66	-1.62/-0.79	
Θ (45°)	-0.07/2.42	2.56/0.91	1.40/1.04	-0.42/1.85	0.89/-1.03	0.98/0.15	-0.22/-1.62	2.78/2.34	1.62/0.39	0.38/0.27	-0.08/-2.40	-0.95/-1.39	-3.81/-5.60	-2.85/-2.64	-1.05/0.54	1.38/1.61	3.29/3.27	1.40/1.57	0.65/-1.03	-2.62/-3.41	-1.82/-0.74	-0.94/-1.24	-0.30/0.32	0.05/-1.25	
Θ (52.5°)	-2.29/0.38	3.03/1.67	1.44/1.26	-1.06/1.51	0.93/-0.27	0.86/-2.39	0.85/1.95	2.34/1.62	0.34/0.08	-0.07/-1.29	-1.60/-4.97	-2.07/-0.56	-0.67/-4.23	0.29/0.98	0.85/1.98	1.56/1.77	1.36/-0.14	0.92/-0.36	-2.87/-5.78	-3.24/-1.87	0.19/-0.37	-1.71/-0.72	0.66/1.05	1.02/-0.10	
Θ (60°)	-2.62/-1.89	1.61/1.90	2.28/1.93	0.22/0.58	-1.36/-1.44	1.11/-2.24	1.28/1.64	0.23/-0.86	0.38/2.81	3.48/2.15	1.23/-1.42	-2.35/-1.61	0.23/-1.81	0.17/2.33	0.49/1.52	0.32/-0.43	-0.47/-1.23	0.42/-1.31	-4.09/-3.27	0.05/0.56	-0.21/-2.70	-2.46/1.12	1.68/-0.16	-0.52/-0.50	
Θ (67.5°)	-3.05/-3.23	-0.08/-0.88	2.71/2.81	0.99/0.50	-2.46/-1.97	1.41/-1.75	0.47/-0.50	-2.72/-2.58	0.27/3.26	4.16/3.05	1.31/-0.32	-0.36/-0.22	-1.75/-0.60	-0.27/2.03	-0.54/1.61	0.12/-0.78	-1.17/-0.71	0.61/-1.19	-1.94/0.24	1.48/1.12	-1.59/-3.53	-0.76/-2.47	1.42/-0.79	-0.88/-0.28	
Θ (75°)	-1.41/-3.48	-1.45/0.38	2.38/2.55	1.16/0.62	-1.88/-1.16	0.50/-2.71	-2.12/-3.68	-4.74/-3.59	-2.65/2.48	3.22/3.36	0.39/0.89	-0.59/0.07	-1.68/-1.80	-2.25/0.71	-2.22/1.06	0.96/-1.34	-2.67/0.41	0.57/-0.86	-1.70/0.81	1.47/1.25	-3.08/-3.21	-0.14/1.53	0.84/-0.08	-0.25/0.00	
Θ (82.5°)	-0.48/-2.05	-1.56/-0.82	2.05/1.89	0.10/-0.14	-3.10/-1.20	-1.08/-2.53	-1.31/-4.65	-5.67/-4.04	-4.73/0.57	2.37/1.63	-1.67/-0.67	-1.44/-0.78	-3.99/-1.40	-4.08/-2.26	-2.11/1.32	0.65/-1.30	-4.28/0.53	-1.32/-0.79	-0.25/1.80	2.16/0.92	-4.53/-2.96	-0.12/0.07	-0.46/-0.43	0.07/0.54	
Θ (90°)	-0.09/-2.20	-1.89/-0.98	0.58/0.63	-0.98/-0.68	-4.04/-2.78	-2.66/-2.44	-0.72/-6.67	-7.08/-4.75	-5.92/-2.53	0.18/-0.00	-4.38/-3.40	-1.98/-4.47	-3.51/-6.60	-4.95/-5.21	-4.36/-1.81	-1.31/-1.91	-6.57/-2.23	-3.82/-2.13	-1.58/-0.14	0.82/-0.83	-4.96/-2.80	-1.63/-1.70	-2.57/-1.53	-0.68/0.38	
Θ (97.5°)	-0.77/-2.30	-2.04/-1.57	0.09/-0.80	-1.92/-2.29	-5.00/-2.49	-4.32/-3.35	-1.81/-10.49	-8.02/-5.52	-8.28/-3.80	-1.66/-1.61	-5.73/-9.53	-3.62/-5.35	-6.28/-9.97	-5.99/-6.87	-7.71/-6.98	-5.82/-6.41	-12.43/-5.14	-7.50/-4.13	-4.45/-2.85	-1.59/-4.59	-5.18/-3.10	-2.72/-4.01	-3.44/-1.99	-1.73/-0.65	
Θ (105°)	-1.37/-3.29	-1.77/-1.79	-1.02/-1.80	-3.46/-4.94	-4.71/-2.31	-6.21/-8.38	-5.63/-8.64	-6.79/-8.36	-8.68/-4.85	-2.94/-1.93	-5.19/-9.76	-6.33/-9.23	-7.94/-8.96	-7.45/-8.24	-6.37/-12.97	-9.66/-11.06	-11.18/-6.78	-6.87/-4.47	-6.71/-3.61	-2.04/-4.88	-5.39/-3.91	-4.70/-6.05	-4.58/-3.55	-3.68/-0.97	
Θ (112.5°)	-1.87/-2.99	-1.79/-2.14	-1.65/-2.58	-5.58/-6.66	-8.52/-2.92	-1.96/-6.26	-4.26/-4.11	-6.51/-10.84	-9.80/-11.03	-7.17/-3.34	-3.89/-5.21	-8.56/-8.79	-11.36/-8.88	-7.39/-8.72	-5.65/-8.65	-7.69/-14.38	-8.04/-4.12	-5.26/-4.15	-3.86/-3.38	-4.25/-5.40	-9.21/-6.25	-5.68/-9.02	-5.45/-5.30	-3.85/-2.24	
Θ (120°)	-2.42/-4.83	-1.81/-3.92	-2.30/-3.78	-7.48/-5.89	-5.97/-6.34	-5.04/-4.15	-4.17/-6.37	-7.49/-8.72	-10.22/-12.73	-12.99/-9.08	-10.11/-9.62	-13.71/-12.36	-13.99/-9.22	-7.67/-14.07	-9.94/-11.47	-11.42/-9.59	-8.06/-8.66	-11.54/-10.76	-7.81/-5.38	-7.26/-11.06	-9.44/-11.10	-7.03/-7.96	-2.56/-3.20		
Θ (127.5°)	-3.11/-3.75	-2.25/-2.95	-3.91/-6.20	-8.31/-6.12	-7.08/-8.40	-5.25/-4.74	-5.50/-7.81	-8.44/-6.82	-8.56/-10.70	-8.26/-8.34	-8.36/-11.08	-14.47/-15.59	-12.90/-10.77	-12.31/-10.80	-14.59/-6.58	-10.25/-11.95	-4.32/-3.54	-9.12/-7.12	-5.74/-5.90	-8.63/-9.05	-12.82/-7.43	-7.98/-10.57	-9.35/-11.46	-3.25/-5.15	
Θ (135°)	-6.49/-4.24	-4.87/-4.99	-6.79/-8.35	-8.97/-6.64	-6.47/-7.51	-11.44/-10.13	-10.84/-7.17	-9.83/-9.62	-7.80/-10.64	-13.94/-8.32	-9.75/-10.93	-12.10/-10.75	-9.82/-9.96	-12.15/-15.38	-11.92/-8.55	-12.51/-9.00	-2.83/-4.59	-10.23/-10.20	-8.36/-6.36	-7.68/-11.18	-9.97/-5.72	-6.56/-10.15	-6.42/-7.73	-6.44/-6.24	
Θ (142.5°)	-5.24/-5.89	-4.81/-4.60	-5.36/-7.04	-7.57/-8.88	-6.97/-5.59	-6.80/-5.50	-7.17/-12.91	-8.97/-12.26	-8.27/-6.92	-9.61/-12.47	-14.85/-11.51	-12.02/-14.11	-9.31/-14.10	-8.21/-14.42	-14.64/-10.79	-11.01/-8.39	-7.40/-6.08	-13.10/-10.90	-10.29/-11.54	-15.14/-10.59	-11.65/-11.21	-15.45/-12.99	-9.12/-9.91	-8.85/-4.55	
Θ (150°)	-10.29/-8.48	-7.19/-8.88	-10.40/-8.06	-8.05/-7.94	-6.45/-7.80	-12.70/-11.58	-9.16/-10.52	-10.83/-9.54	-11.01/-15.47	-12.51/-10.83	-10.95/-12.90	-8.96/-10.78	-10.63/-11.95	-10.88/-14.81	-12.37/-13.01	-9.30/-11.02	-11.59/-14.03	-11.24/-12.25	-9.66/-9.62	-8.07/-7.34	-8.85/-10.73	-10.78/-11.29	-10.42/-10.66	-10.26/-10.48	
Θ (157.5°)	-12.61/-11.94	-11.43/-9.47	-7.50/-8.84	-11.96/-7.77	-6.68/-9.77	-10.91/-9.48	-7.92/-8.54	-9.14/-10.39	-12.63/-15.76	-14.63/-14.20	-14.95/-15.87	-15.65/-14.61	-14.71/-11.92	-12.08/-12.01	-14.30/-13.20	-10.65/-11.41	-10.63/-11.41	-11.29/-10.72	-10.49/-11.79	-13.24/-14.56	-12.67/-10.35	-11.38/-12.58	-11.38/-12.58	-11.88/-12.17	
Θ (165°)	-10.25/-9.77	-8.72/-10.33	-10.75/-8.62	-6.76/-5.79	-5.26/-6.45	-8.12/-10.30	-13.67/-14.94	-13.95/-13.12	-12.42/-11.86	-12.63/-13.64	-13.97/-14.27	-15.93/-11.86	-10.00/-9.99	-10.26/-9.47	-8.07/-8.54	-11.09/-14.33	-15.51/-14.61	-14.53/-15.20	-15.03/-14.67	-13.43/-14.76	-14.34/-12.31	-10.87/-11.48	-12.00/-11.55	-9.77/-9.66	
Θ (172.5°)	-7.43/-6.36	-5.69/-6.04	-6.46/-6.23	-8.63/-5.91	-7.35/-9.06	-11.99/-13.38	-13.47/-14.35	-13.24/-11.93	-11.01/-10.84	-10.18/-10.87	-11.33/-10.71	-10.77/-13.32	-13.77/-14.65	-15.67/-15.19	-15.83/-15.95	-15.56/-15.35	-14.53/-15.24	-13.48/-12.07	-12.44/-11.61	-11.06/-11.27	-12.37/-12.20	-11.05/-10.48	-8.24/-9.23	-8.54/-7.30	
Θ (180°)	-9.88/-11.81	-12.35/-10.89	-10.34/-10.70	-11.40/-12.14	-12.53/-12.97	-14.87/-15.63	-15.53/-15.31	-16.05/-15.06	-13.79/-11.81	-10.45/-10.57	-10.42/-9.71	-9.61/-10.09	-10.09/-10.03	-10.47/-9.99	-10.73/-10.60	-10.45/-10.19	-9.38/-9.33	-8.43/-8.46	-9.45/-9.61	-9.80/-9.41	-8.41/-8.94	-8.87/-8.78	-8.44/-8.28	-8.66/-9.20	
Freq(Hz)	2.45GPol.	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°)	-5.31/-5.18	-4.80/-4.15	-3.42/-2.69	-1.99/-1.37	-0.89/-0.48	-0.31/-0.02	0.14/-0.05	-0.27/-0.73	-1.17/-1.88	-2.66/-3.22	-3.77/-4.23	-4.60/-4.70	-4.65/-4.34	-3.85/-3.21	-2.55/-1.80	-1.16/-0.72	-0.44/-0.29	-0.23/-0.35	-0.68/-1.05	-1.31/-1.59	-1.94/-2.33	-2.71/-3.25	-3.73/-4.31	-4.90/-5.28	
Θ (7.5°)	-5.20/-5.14	-4.97/-4.60	-4.26/-3.69	-3.28/-2.74	-2.30/-1.69	-1.19/-0.80	-0.54/-0.44	-0.54/-0.76	-1.15/-1.88	-2.58/-3.13	-3.54/-4.11	-4.36/-4.53	-4.48/-4.11	-3.51/-2.79	-2.09/-1.45	-0.87/-0.44	-0.08/0.18	0.28/0.14	-0.26/-0.77	-1.17/-1.66	-2.03/-2.57	-3.02/-3.50	-4.04/-4.55	-5.04/-5.09	
Θ (15°)	-4.93/-4.89	-4.77/-4.68	-4.62/-4.54	-4.49/-4.45	-4.19/-3.75	-2.98/-2.30	-1.75/-1.28	-1.01/-1.29	-1.17/-1.42	-1.97/-2.52	-3.05/-3.49	-3.91/-4.14	-4.01/-3.53	-2.82/-2.14	-1.55/-1.03	-0.54/-0.03	0.32/0.65	0.80/0.59	0.08/0.57	-1.23/-1.83	-2.36/-2.69	-3.03/-3.41	-3.80/-4.29	-4.55/-4.76	
Θ (22.5°)	-4.02/-3.83	-3.69/-3.73	-4.14/-4.62	-5.19/-5.51	-5.62/-5.30	-4.57/-3.74	-2.74/-1.99	-1.39/-1.08																	

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 $\Theta(0-180)\Phi(270)$

