

Gain Result

[illegible]



Radiated Composite Gain Data of BLE

Appendix D

Θ(22.5°)	-2/-1.82	-1.61/-1.34	-1.06/-0.8	-0.51/-0.29	-0.14/-0.04	-0.01/0.1	0.2/0.34	0.52/0.79	1.14/1.54	1.99/2.5	2.99/3.47	3.84/4.12	4.3/4.43	4.53/4.59	4.6/4.57	4.48/4.37	4.19/3.96	3.69/3.42	3.15/2.83	2.43/1.95	1.43/0.89	0.33/-0.28	-0.92/-1.49	-1.89/-2.03
Θ(30°)	0.24/0.36	0.53/0.7	0.97/1.33	1.75/2.15	2.41/2.53	2.57/2.6	2.67/2.87	3.1/3.37	3.65/3.91	4.21/4.58	4.99/5.37	5.65/5.8	5.83/5.82	5.78/5.75	5.72/5.65	5.53/5.37	5.14/4.9	4.64/4.46	4.31/4.13	3.9/3.55	3.17/2.77	2.36/1.88	1.38/0.88	0.48/0.28
Θ(37.5°)	1.53/1.59	1.67/1.77	2.03/2.45	2.95/3.36	3.52/3.46	3.33/3.28	3.44/3.79	4.2/4.09	4.09/4.11	4.36/4.7	5.09/5.46	5.67/5.74	5.67/5.5	5.35/4	5.02/4.9	4.73/4.5	4.23/4.16	4.15/4.12	4.12/4.04	4.01/3.94	3.64/3.34	3.03/2.7	2.32/1.95	1.65/1.52
Θ(45°)	1.91/1.95	1.93/1.93	2.13/2.59	3.13/3.48	3.49/3.26	3.02/3	3.32/3.83	4.07/4.26	4.03/4.21	4.44/4.74	5.13/5.5	5.75/5.85	5.77/5.53	5.2/4.87	4.63/4.44	4.23/4.17	4.24/4.15	4.18/4.12	4.14/4.08	3.88/3.57	3.23/2.91	2.64/2.36	2.08/1.86	1.75/1.79
Θ(52.5°)	1.66/1.71	1.61/1.49	1.62/2.1	2.68/2.98	2.92/2.62	2.44/2.58	3.09/3.74	4.06/4.01	4.07/4.06	4.06/4.06	4.48/4.96	5.26/5.35	5.25/4.94	4.54/4.11	4.09/4.07	4.04/4.05	3.69/3.39	3.26/3.36	3.52/3.52	3.25/2.79	2.27/1.91	1.63/1.37	1.17/1.17	1.32/1.54
Θ(60°)	0.98/1.03	0.83/0.55	0.55/1.04	1.69/2.04	1.98/1.73	1.62/1.87	2.51/3.25	3.82/3.89	3.6/3.3	3.26/3.53	4.05/4.65	5.13/5.35	5.31/5.03	4.55/3.97	3.47/3.27	3.17/2.97	2.63/2.23	2.04/2.22	2.57/2.69	2.45/1.87	1.2/0.71	0.46/0.27	0.09/0.15	0.44/0.77
Θ(67.5°)	-0.08/-0.08	-0.42/-0.85	-0.89/-0.29	0.5/0.96	1.01/0.83	0.81/1.12	1.8/2.58	3.09/2.97	2.32/1.66	1.45/1.76	2.39/3.23	3.76/3.96	3.87/3.49	2.85/2.13	1.71/1.7	1.85/1.78	1.4/0.83	0.48/0.71	1.23/1.51	1.32/0.71	-0.09/-0.67	-0.86/-0.99	-1.15/-1.09	-0.72/-0.34
Θ(75°)	-1.56/-1.67	-2.27/-2.94	-2.9/-2.05	-1.09/-0.49	-0.37/-0.57	-0.72/-0.59	-0.06/0.77	1.44/1.34	0.52/-0.53	-1.12/-0.87	-0.08/0.87	1.56/1.88	1.91/1.68	1.1/0.36	-0.19/-0.18	0.09/0.16	-0.12/-0.76	-1.39/-1.31	-0.64/-0.11	-0.16/-0.82	-1.89/-2.8	-3.07/-3.09	-3.12/-2.92	-2.44/-1.89
Θ(82.5°)	-3.84/-3.94	-4.78/-5.62	-5.34/-4.07	-2.87/-2.12	-1.93/-2.23	-2.43/-2.52	-2.34/-1.5	-0.69/-0.66	-1.62/-2.98	-3.74/-3.38	-2.28/-1.24	-0.48/-0.07	0.07/-0.07	-0.59/-1.33	-1.94/-2.04	-1.63/-1.27	-1.23/-1.8	-2.77/-3.05	-2.33/-1.58	-1.44/-2.02	-3.31/-4.82	-5.58/-5.75	-5.62/-5.25	-4.64/-4.15
Θ(90°)	-6.17/-6.81	-7.9/-8.43	-7.45/-6.12	-5.26/-4.57	-4.29/-4.21	-3.77/-3.7	-4.08/-3.76	-2.94/-2.75	-3.57/-4.98	-5.89/-5.68	-4.79/-3.54	-2.59/-2.19	-2.13/-2.29	-2.8/3.56	-4.35/-4.4	-3.65/-2.8	-2.33/-2.72	-4.15/-5.59	-5.17/-3.85	-2.87/-2.81	-3.91/-5.68	-6.91/-7.12	-6.61/-5.94	-5.66/-5.81
Θ(97.5°)	-8.32/-9.52	-10.93/-10.68	-8.88/-7.74	-7.57/-7.24	-6.84/-6.15	-4.97/-4.93	-5.87/-5.99	-5.22/-4.9	-5.67/-7.25	-8.07/-7.78	-7.15/-6.05	-5.32/-5.11	-5.12/-5.21	-5.55/-6.31	-7.23/-7.52	-6.68/-5.3	-4.23/-4.34	-6.3/-9.71	-10.81/-8.15	-5.67/-4.85	-6.02/-8.54	-10.42/-10.41	-9.07/-7.81	-7.25/-7.56
Θ(105°)	-12.03/-13.87	-14.99/-13.26	-10.99/-10.32	-11.66/-12.39	-11.48/-9.13	-6.71/6.41	-8.14/-9.49	-8.75/-8.18	-9.01/-10.58	-9.72/-8.61	-8.43/-9.93	-7.52/-7.16	-7.12/-7.74	-8.79/-9.8	-9.57/-6.66	-5.67/-4.94	-6.22/-9.39	-13.27/-12.14	-8.16/-6.41	-7.26/-10.26	-13.48/-13.97	-11.88/-9.98	-9.64/-10.6	
Θ(112.5°)	-16.32/-18.14	-15.94/-13.36	-11.89/-11.86	-14.46/-18.55	-16.82/-11.19	-7.46/-6.93	-8.95/-11.87	-12.46/-11.94	-12.72/-11.72	-8.97/-8.22	-9.36/-10.44	-10.48/-10.13	-9.94/-9.57	-9.37/-9.97	-11.24/-12.59	-12.67/-10.75	-8.23/-7.22	-8.45/-11.12	-14.51/-18.56	-13.59/-10.09	-10.13/-12.45	-14.77/-15.04	-13.31/-11.31	-11.09/-13.21
Θ(120°)	-19.34/-18.61	-16.33/-14.28	-14.56/-16.45	-17.75/-18.08	-18.21/-14.65	-9.63/-8.36	-10/-13.49	-15.26/-15.44	-18.83/-16.46	-11.25/-9.87	-10.77/-13.08	-15.28/-15.75	-15.43/-13.62	-11.83/-11.78	-13.23/-14.46	-14.91/-13.95	-11.57/-10.05	-9.92/-10.13	-10.57/-13.24	-16.57/-14.5	-13.59/-14.4	-15.21/-15.53	-15.13/-13.86	-13.41/-15.63
Θ(127.5°)	-17.07/-17.48	-16.56/-15.24	-15.6/-17.39	-18.13/-16.47	-15.97/-14.7	-11.39/-10.15	-11.89/-17.33	-18.74/-18.44	-18.42/-14.98	-10.81/-9.62	-10.3/-13.33	-18.78/-18.29	-18.91/-15.41	-13.22/-13.47	-14.44/-15.24	-16.22/-16.88	-15.79/-14.41	-13.78/-13.47	-13.95/-16.63	-18.74/-17.32	-18.28/-17.23	-16.09/-15.5	-15.51/-15.49	-15.29/-16.06
Θ(135°)	-17.28/-18.32	-17.59/-19.17	-18.35/-17.75	-19.24/-16.68	-15.58/-15.23	-14.23/-13.78	-15.85/-18.13	-18.45/-18.25	-17.67/-16.21	-13.31/-12.19	-12.73/-15.4	-18.71/-19.32	-18.97/-19.59	-17.2/-16.92	-16.66/-16.8	-17.76/-19.4	-18.44/-18.25	-19.21/-19.01	-18.1/-18.72	-19/-18.83	-19.03/-18.14	-19.09/-17.49	-17.17/-17.31	-17.28/-17.02
Θ(142.5°)	-18.66/-18.26	-18.82/-17.94	-17.38/-18.84	-19.41/-18.71	-18.62/-18.62	-17.62/-18.8	-17.89/-18.74	-18.23/-19	-18.17/-17.97	-18.47/-16.92	-16.9/-18.69	-18.21/-18.2	-17.68/-18.56	-18.47/-17.92	-17.83/-16.83	-16.46/-17.26	-17.99/-18.35	-18.21/-19.18	-18.31/-17.23	-17.6/-19.05	-18.09/-18.38	-16.22/-15.86	-16.93/-19.06	-17.55/-17.97
Θ(150°)	-19.06/-18.07	-18.98/-17.7	-18.11/-18.07	-18.29/-18.22	-18.25/-18.62	-17.87/-17.32	-17.62/-18.4	-18.89/-18.09	-17.61/-17.35	-17.7/-18.44	-19.51/-17.73	-17.82/-19.11	-18.8/-18.7	-18.47/-17.78	-18.15/-18.71	-16.42/-16.23	-17.58/-17.5	-18.03/-17.79	-18.77/-18.13	-17.52/-18.16	-19.07/-17.13	-16.14/-16.18	-17.03/-18.27	-18.41/-18.26
Θ(157.5°)	-18.68/-18.09	-18.92/-17.52	-17.72/-19.16	-18.71/-18.7	-19.39/-18.76	-18.37/-17.46	-19.39/-19.18	-18.16/-18.71	-18.57/-18.74	-19.18/-17.66	-17.83/-19.07	-19.2/-18.62	-19.1/-17.94	-18.39/-18.14	-18.17/-19.27	-17.55/-17.08	-17.35/-18.22	-18.98/-18.45	-19.09/-18.17	-19.13/-19.24	-17.22/-17.77	-18.58/-19	-18.53/-17.61	-18.07/-18.73
Θ(165°)	-18.14/-18.67	-17.69/-17.91	-17.21/-19.28	-17.96/-17.79	-18.72/-18.47	-17.77/-17.72	-18.73/-18.04	-19.29/-19	-17.9/-18.68	-18.34/-19.55	-18.38/-18.05	-18.47/-18.96	-18.61/-19.18	-18.51/-18.78	-18.45/-19.06	-18.43/-18.8	-17.64/-16.9	-16.28/-15.84	-15.59/-15.83	-16.45/-17.32	-18.17/-18.99	-17.87/-18.98	-18.31/-18.4	-18.42/-17.97
Θ(172.5°)	-18.33/-18.3	-18.25/-17.52	-18.38/-18.56	-19.06/-19.32	-17.25/-18.19	-17.42/-18.59	-17.31/-18.64	-18.54/-19.22	-18.64/-19.66	-18.72/-18.13	-18.19/-18.58	-17.07/-17.45	-18.53/-18.75	-17.67/-18.03	-18.46/-17.37	-18.25/-18.71	-18.83/-18.31	-18.21/-18.13	-17.88/-18.36	-18.22/-17.44	-17.72/-17.89	-19.07/-18.85	-17.89/-18.7	-18.24/-18.98
Θ(180°)	-17.37/-17.88	-18.19/-17.77	-18.48/-18.8	-18.1/-17.75	-18.25/-18.8	-18.91/-18.4	-18.68/-19.27	-18.53/-18.06	-18.04/-17.61	-18.74/-18.14	-18.48/-18.24	-18.04/-18.15	-18.08/-18.89	-18.98/-18.4	-18.3/-19.16	-17.91/-18.07	-18.44/-17.78	-18.23/-18.73	-18.82/-18.11	-17.81/-18.42	-18.65/-17.59	-19.28/-18.11	-19.06/-19.38	-17.73/-17.75
Freq(Hz)	2.4835GPol.	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°)	-15.82/-18.37	-17.99/-18.95	-17.7/-17.52	-14.31/-11.95	-10.23/-8.86	-7.76/-6.89	-6.1/-5.56	-5.18/-4.98	-4.87/-4.86	-5.07/-5.53	-6.19/-6.97	-7.78/-8.75	-10.15/-12.14	-14.88/-18.51	-18.58/-19.16	-17.12/-18.54	-15.46/-13.35	-11.77/-10.65	-9.75/-9.01	-8.55/-8.29	-8.22/-8.35	-8.68/-9.23	-10.1/-11.09	-12.23/-13.56
Θ(7.5°)	-14.44/-16.31	-18.75/-18.73	-17.5/-16.84	-14.05/-11.81	-10.15/-8.67	-7.41/-6.35	-5.5/-4.97	-4.6/-4.34	-4.12/-4.02	-4.16/-4.59	-5.23/-6.01	-6.72/-7.69	-9.03/-10.98	-13.37/-16.2	-18.84/-18.65	-18.5/-17.41	-15.15/-13.34	-11.93/-10.92	-10.24/-9.73	-9.41/-9.05	-9.75/-10.3	-11.13/-11.92	-12.66/-13.4	
Θ(15°)	-11.66/-12.38	-13.33/-14.31	-14.96/-14.56	-13.06/-11.22	-9.64/-8.12	-6.85/-5.82	-5.12/-4.79	-4.52/-4.34	-4.13/-4.01	-4.86/-5.38	-5.94/-6.72	-7.89/-9.52	-11.64/-14.13	-17.05/-18.82	-18.58/-17.08	-15.22/-13.38	-11.93/-11.06	-10.47/-10.04	-9.75/-9.52	-9.47/-9.61	-9.98/-10.59	-11.18/-11.56	-11.58/-11.51	
Θ(22.5°)	-10.05/-10.14	-10.49/-11	-11.59/-11.8	-11.18/-10.18	-8.95/-7.57	-6.29/-5.34	-4.77/-4.56	-4.51/-4.56	-4.52/-4.46	-4.49/-4.77	-5.12/-5.47	-5.91/-6.67	-7.77/-9.18	-11.01/-13.3	-16.19/-18.71	-18.07/-17.24	-14.8/-12.86	-11.56/-10.84	-10.41/-9.94	-9.44/-9.15	-8.99/-9.15	-9.63/-10.28	-10.91/-11.12	-10.85/-10.4
Θ(30°)	-10.17/-9.77	-9.54/-9.5	-9.65/-9.85	-9.88/-9.8	-9.2/-8.04	-6.66/-5.48	-4.69/-4.31	-4.19/-4.4	-4.74/-5.07	-5.34/-5.58	-5.82/-6.08	-6.41/-6.99	-7.68/-8.47	-9.55/-11.07	-13.46/-17.13	-18.42/-18.74	-15.35/-12.93	-11.64/-10.99	-10.51/-10.08	-9.67/-9.27	-9.08/-9.11	-9.49/-10.19	-10.97/-11.54	-11.49/-10.89
Θ(37.5°)	-11.19/-10.33	-9.68/-9.29	-9.04/-9.09	-9.62/-10.76	-11.46/-10.49	-8.33/-6.43	-5.19/-4.47	-4.31/-4.59	-5.2/-5.87	-6.34/-6.56	-6.82/-7.29	-7.89/-8.46	-8.75/-8.91	-9.26/-10.18	-12.04/-15.46	-18.32/-19.01	-14.9/-12.56	-11.33/-10.74	-10.45/-10.29	-10.04/-9.74	-9.57/-9.54	-9.76/-10.35	-11.18/-12.01	-12.32/-12.06
Θ(45°)	-13.13/-11.87	-10.83/-10.02	-9.25/-8.9	-9.62/-12.01	-15.62/-15.06	-10.84/-7.82	-6.09/-5.29	-5.15/-5.51	-6.2/-6.92	-7.42/-7.65	-7.83/-8.25	-9.26/-10.38	-10.74/-10.32	-9.84/-9.96	-11.14/-14.07	-19.03/-18.55	-16.13/-13.23	-11.89/-11.28	-11.21/-11.22	-11.09/-10.84	-10.76/-10.94	-11.23/-11.86	-12.67/-13.98	-14.78/-14.34
Θ(52.5°)	-15.68/-14.29	-13.15/-11.8	-10.37/-9.49	-9.95/-12.83	-17.4/-18.39	-13.63/-9.48	-7.36/-6.55	-6.72/-7.4	-8.22/-8.76	-8.97/-8.83	-8.49/-8.71	-10.08/-12.52	-13.88/-12.66	-11.21/-10.74	-11.84/-14.84	-19.28/-17.77	-17.32/-14.42	-13.02/-12.48	-12.49/-12.59	-12.12/-11.54	-11.57/-12.1	-13/-14.09	-15.85/-17.77	-18.64/-17.46
Θ(60°)	-17.38/-17.03	-16.69/-14.97	-12.66/-10.8	-10.59/-12.54	-17.11/-18.67	-18.8/-12.26	-9.29/-8.24	-8.58/-9.8	-11.09/-11.42	-11.05/-10.38	-9.3/-8.79	-9.71/-12.64	-16.8/-16.99	-13.91/-12.53	-13.42/-16.24	-18.75/-17.89	-19.11/-16.05	-14.68/-14.44	-14.86/-15.04	-14.14/-13.06	-12.73/-13.21	-14.32/-16.23	-19.69/-19.12	-17.43/-18.76
Θ(67.5°)	-17.55/-18.95	-18.41/-19.1	-15.93/-12.89	-11.75/-12.59	-15.41/-17.31	-18.58/-14.17	-10.73/-9.6	-10.26/-12.04	-14.07/-14.3	-13.17/-11.86	-1													

Total Gain Data

[illegible]



Antenna Pattern of 2.4GHz/5GHz/6GHz

Appendix E

Θ(22.5°)	-1.42/-1.19	-1.90/-0.65	0.56/0.79	0.80/1.13	1.51/1.34	0.98/0.59	0.87/0.92	1.18/1.60	1.47/1.70	2.13/1.73	1.86/2.18	1.26/0.05	-0.33/-1.12	0.82/2.63	3.21/2.89	2.28/1.79	1.17/0.90	0.71/1.03	0.66/-0.83	-1.58/-1.09	-1.02/-0.92	-0.32/-0.06	0.41/-0.14	-0.45/-0.77
Θ(30°)	-0.12/-0.10	-1.17/-0.66	-0.66/-0.63	-0.61/-0.26	0.15/-0.54	-1.20/-0.40	1.38/2.41	2.45/2.52	3.05/0.37	2.94/2.26	1.25/2.15	2.22/2.48	1.82/-0.01	-0.56/0.43	0.53/0.40	1.10/1.48	1.51/1.72	0.71/-0.39	-0.75/-0.60	-1.00/-1.10	-0.41/-0.04	-0.36/-1.05	-2.13/-1.90	-0.40/-0.13
Θ(37.5°)	-0.96/-2.74	-2.74/-1.33	-0.18/-0.06	-0.33/-1.13	-2.56/-1.90	-1.07/0.56	2.40/2.88	2.80/2.32	1.74/2.10	2.32/2.36	2.06/1.71	2.41/2.63	1.20/1.42	1.87/0.17	-2.19/-1.46	1.77/2.42	2.42/2.02	0.11/-0.37	-0.00/-0.78	-0.77/0.84	-0.02/-0.96	-2.40/-1.08	-0.30/-2.47	-3.47/-0.62
Θ(45°)	-5.50/-7.74	-11.42/-7.42	-6.79/-2.91	-0.50/-1.11	-3.27/-0.53	0.25/2.11	2.63/2.37	2.52/2.37	2.03/1.75	1.91/2.24	2.37/1.68	2.46/2.60	0.77/1.05	1.05/1.02	-0.21/-1.87	0.61/0.90	0.03/-0.51	-1.79/-2.69	-3.35/-1.28	1.33/2.78	1.63/-0.86	-2.07/-2.09	-0.68/-0.19	-3.94/-4.27
Θ(52.5°)	-7.44/-11.83	-15.46/-13.17	-10.96/-10.95	-2.00/-0.47	-2.02/-0.63	-0.00/-4.33	1.75/2.35	2.54/2.65	3.80/3.56	2.53/2.37	1.47/0.61	0.92/2.10	0.72/-0.04	1.44/-1.16	-0.37/0.17	0.36/-0.72	-1.95/-1.47	-0.97/-2.46	-0.91/-1.09	1.81/1.04	-1.54/-1.14	0.72/0.57	-1.31/-3.51	-4.93/-5.72
Θ(60°)	-7.19/-10.38	-10.30/-11.33	-7.04/-11.88	-3.73/-1.53	-1.70/-0.40	-0.60/1.69	1.26/2.61	2.77/3.13	4.16/3.73	2.73/2.45	2.26/1.76	0.16/1.20	0.94/-2.45	1.22/-0.53	-2.28/0.17	-0.78/-1.48	-2.28/-2.12	-0.08/-2.83	-0.63/-1.50	-1.96/-3.32	-5.44/-1.01	1.37/-0.46	-1.23/-2.39	-6.33/-4.76
Θ(67.5°)	-5.48/-5.06	-3.87/-6.23	-8.70/-8.74	-3.51/-2.96	-2.31/-1.32	-1.78/0.28	1.62/2.84	2.78/3.33	3.15/2.74	2.45/1.17	1.74/1.77	-0.36/-0.58	-0.47/-3.73	0.07/-0.89	-4.12/-0.88	-2.92/-1.20	-2.78/-2.31	-0.76/-2.79	-1.52/-3.47	-2.04/-1.54	0.09/0.57	0.74/-1.41	-2.33/-1.61	-3.49/-3.70
Θ(75°)	-3.51/-0.79	-0.43/-1.82	-6.40/-6.89	-3.32/-3.50	-3.26/-3.45	-2.43/-1.45	1.42/2.47	2.30/2.24	1.84/1.99	1.65/0.45	-0.64/0.38	-0.49/-2.62	-2.01/-4.14	-2.04/-1.75	-5.97/-3.73	-3.92/-1.81	-3.68/-2.47	-0.39/-0.66	0.42/-0.37	1.03/1.37	3.21/1.73	0.01/-1.17	-2.20/-2.57	-2.44/-0.56
Θ(82.5°)	-2.34/-1.16	0.16/-0.42	-4.11/-5.62	-3.35/-3.69	-3.62/-5.93	-2.82/-2.40	0.59/1.65	1.42/1.07	1.14/1.88	1.15/-0.22	-1.13/-2.17	-1.93/-3.42	-3.29/-5.01	-2.84/-3.38	-7.12/-4.95	-6.47/-3.91	-4.99/-3.34	-1.49/0.08	1.77/1.17	1.92/2.12	3.98/2.08	-1.22/-0.51	-1.94/-3.50	-2.86/0.07
Θ(90°)	-2.09/-0.73	-0.53/-0.62	-4.95/-5.17	-3.50/-3.67	-5.00/-6.60	-3.31/-3.48	-0.49/0.08	0.74/0.72	0.58/1.12	1.06/-0.13	-0.71/-2.87	-3.58/-3.61	-5.69/-4.25	-4.21/-4.26	-6.62/-6.52	-7.47/-5.48	-8.45/-6.78	-3.73/-0.32	1.05/-0.04	0.19/1.14	2.85/0.93	-1.75/-2.07	-3.56/-6.21	-4.06/-1.93
Θ(97.5°)	-3.05/-2.14	-2.48/-3.01	-5.82/-6.96	-4.85/-3.57	-6.36/-6.04	-3.57/-2.81	-0.86/-0.56	-0.02/0.03	0.05/0.13	-0.31/-0.78	-1.45/-3.47	-5.45/-4.89	-6.82/-4.10	-4.94/-6.57	-7.74/-8.10	-10.42/-9.18	-8.33/-12.56	-8.02/-2.87	-1.29/-1.96	-2.81/-1.92	0.78/-2.43	-4.10/-4.41	-7.28/-7.46	-6.07/-2.77
Θ(105°)	-4.65/-5.11	-4.72/-6.72	-9.70/-6.01	-6.67/-3.92	-8.62/-5.75	-3.00/-2.29	-0.64/-0.92	-1.63/-1.58	-0.37/-0.38	-1.14/-1.11	-3.15/-2.75	-5.04/-5.27	-6.73/-3.99	-5.64/-7.76	-8.30/-8.72	-11.71/-14.19	-7.72/-14.22	-13.55/-7.17	-7.91/-6.04	-10.14/-10.72	-4.00/-8.38	-6.33/-6.10	-1.27/-7.96	-5.41/-2.89
Θ(112.5°)	-7.84/-6.88	-10.76/-8.73	-11.40/-5.12	-7.19/-4.94	-7.29/-5.62	-3.17/-2.05	-2.04/-1.87	-1.54/-2.81	-2.31/-1.16	-1.05/-1.84	-3.21/-3.48	-5.18/-4.94	-5.05/-5.18	-4.88/-7.00	-10.32/-10.73	-9.22/-14.48	-11.34/-13.69	-15.04/-8.75	-10.19/-6.88	-9.30/-9.09	-5.86/-7.86	-6.10/-7.96	-13.75/-11.23	-6.24/-2.89
Θ(120°)	-12.01/-10.54	-11.56/-15.11	-8.14/-4.67	-7.21/-7.92	-5.97/-6.19	-3.19/-1.09	-1.58/-3.32	-2.32/-3.83	-3.36/-1.85	-1.12/-2.95	-4.71/-5.15	-5.71/-3.38	-6.08/-7.25	-4.46/-7.20	-12.45/-15.28	-11.24/-14.71	-10.62/-14.78	-12.07/-10.76	-11.44/-10.12	-13.11/-11.55	-8.62/-5.63	-6.42/-12.72	-11.01/-14.56	-8.46/-5.56
Θ(127.5°)	-12.31/-12.82	-9.71/-9.70	-5.59/-6.14	-8.62/-8.12	-5.56/-5.30	-4.72/-2.66	-2.44/-3.54	-4.00/-4.85	-4.44/-2.98	-2.37/-3.06	-4.22/-6.88	-8.44/-7.50	-7.49/-6.94	-6.97/-11.26	-9.35/-11.94	-11.33/-14.26	-12.31/-15.28	-11.93/-13.76	-10.19/-13.01	-14.83/-9.77	-8.27/-6.44	-9.88/-13.18	-10.08/-15.08	-11.11/-11.10
Θ(135°)	-8.53/-7.67	-9.19/-10.26	-6.16/-10.22	-9.88/-8.34	-6.17/-5.88	-5.52/-3.76	-4.70/-6.30	-5.85/-4.42	-4.70/-4.91	-3.82/-4.22	-4.23/-6.06	-4.96/-3.76	-7.07/-5.27	-6.42/-10.22	-10.86/-9.02	-9.71/-13.10	-14.07/-16.27	-11.63/-15.06	-9.12/-9.93	-9.79/-14.08	-14.02/-9.71	-7.67/-14.98	-11.98/-10.10	-8.98/-8.06
Θ(142.5°)	-11.93/-11.60	-10.59/-9.58	-8.94/-9.62	-11.10/-13.07	-11.85/-10.43	-10.29/-10.13	-9.05/-9.05	-9.09/-7.85	-7.52/-7.22	-7.13/-8.11	-8.94/-8.86	-7.52/-7.01	-7.12/-7.06	-7.17/-7.34	-8.28/-10.78	-15.36/-11.61	-9.95/-11.60	-13.61/-12.64	-12.81/-12.94	-11.80/-11.19	-10.80/-10.52	-10.61/-11.26	-12.40/-14.80	-14.03/-15.21
Θ(172.5°)	-11.35/-10.61	-11.19/-12.71	-12.84/-11.38	-9.64/-9.76	-10.34/-10.11	-9.88/-9.65	-10.35/-11.63	-10.95/-12.59	-13.37/-12.24	-11.53/-10.24	-10.39/-10.11	-10.02/-11.09	-9.54/-7.87	-8.50/-10.91	-13.95/-15.77	-15.38/-14.65	-14.08/-14.75	-16.36/-12.73	-12.31/-12.68	-12.34/-12.78	-14.26/-14.08	-13.92/-12.78	-12.93/-12.42	
Θ(180°)	-11.80/-11.42	-10.98/-10.58	-10.50/-9.81	-9.87/-10.43	-10.33/-10.74	-12.71/-12.39	-12.48/-11.44	-9.58/-9.22	-9.44/-9.92	-10.39/-10.13	-10.74/-10.52	-9.58/-9.82	-12.48/-12.89	-13.95/-13.99	-13.89/-15.91	-15.30/-15.28	-15.31/-15.42	-13.30/-11.00	-10.46/-10.59	-11.00/-12.15	-12.96/-12.81	-12.52/-13.02	-12.36/-12.53	-13.41/-12.11
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°)	1.58/1.52	1.52/1.20	0.79/1.01	0.96/0.92	1.14/1.36	1.17/1.53	1.09/1.26	1.39/1.04	1.25/0.99	0.92/1.40	0.89/0.72	0.76/0.94	1.46/1.45	1.25/1.16	1.04/1.04	0.95/1.20	1.08/1.13	1.27/1.09	1.20/1.67	1.48/1.27	1.16/2.26	1.25/1.39	1.37/1.27	1.38/1.77
Θ(7.5°)	0.94/0.84	0.98/1.01	1.01/1.56	1.80/1.65	1.74/1.74	1.51/1.51	1.38/1.21	1.19/1.07	0.99/0.85	0.94/1.17	1.26/1.13	0.85/1.36	1.93/1.96	2.01/1.93	1.92/1.80	1.75/1.77	1.61/1.51	1.35/0.87	0.73/1.09	1.24/0.99	1.06/1.25	1.02/1.25	1.30/0.93	0.83/0.62
Θ(15°)	2.13/2.33	2.15/2.03	1.63/1.76	1.87/1.61	2.34/2.38	1.86/1.32	0.67/0.16	1.17/2.02	2.29/2.45	1.96/1.91	1.92/1.09	1.22/0.74	1.10/2.07	2.00/1.86	2.28/2.28	2.28/2.28	2.09/2.33	2.27/1.99	0.62/0.81	0.30/0.28	0.13/0.55	0.61/0.19	0.73/0.14	1.23/1.43
Θ(22.5°)	-0.32/0.65	1.79/2.59	2.46/2.46	1.96/1.45	1.14/0.99	0.73/0.88	1.51/2.04	2.57/3.64	3.87/3.59	3.55/3.06	2.63/2.06	1.32/1.51	1.19/1.18	0.97/0.62	1.56/2.62	2.67/2.25	1.19/1.30	1.54/1.45	0.41/-0.55	-0.58/0.19	0.47/0.51	0.99/1.34	1.12/0.74	0.28/-0.30
Θ(30°)	-2.05/-1.14	-0.57/-0.94	0.52/2.04	1.33/0.12	-0.34/-0.00	0.72/2.45	3.18/2.72	2.24/2.34	1.93/1.45	1.40/1.73	2.08/1.89	1.46/1.78	2.03/1.49	1.75/2.26	0.65/0.42	0.76/1.14	0.19/1.47	3.16/2.77	0.35/-0.10	0.83/0.55	0.27/-0.38	-1.15/-1.39	-1.74/-2.06	-0.37/-1.61
Θ(37.5°)	-1.88/-0.41	0.76/-0.29	-0.77/0.85	0.17/-0.29	1.21/0.41	1.92/2.02	2.85/1.27	2.85/3.15	2.32/2.58	2.07/1.43	1.42/1.40	0.61/1.52	1.75/1.53	1.56/1.70	0.39/-0.55	-0.73/1.54	0.84/1.49	2.29/1.08	0.81/0.49	-0.92/-2.02	-1.74/-1.23	-1.50/-1.45	-2.57/-1.91	0.40/0.02
Θ(45°)	-4.46/-6.84	-4.39/-3.12	-2.33/0.67	1.29/-0.67	1.76/0.97	2.44/2.96	3.53/3.39	3.23/3.63	3.90/2.55	1.97/1.85	1.05/0.53	1.03/0.75	0.21/0.25	-0.89/-1.70	-1.99/1.23	0.66/-0.00	-0.65/0.60	-0.27/-1.98	1.11/3.18	3.39/1.44	-2.35/-2.42	-0.81/-0.68	-2.90/-1.85	
Θ(52.5°)	-9.02/-11.63	-12.17/-7.44	-7.83/-1.17	1.83/-0.23	1.32/1.50	2.69/2.29	2.85/3.36	5.02/4.10	3.43/3.62	3.08/3.01	2.28/2.60	0.41/-0.56	0.60/-0.29	-0.84/-1.46	-3.63/-1.29	-1.60/-1.38	-1.29/-1.82	-3.27/-1.04	-2.85/-1.66	3.02/2.18	0.71/-1.37	-1.63/-1.20	-2.14/-2.98	-4.78/-7.85
Θ(60°)	-13.88/-11.99	-11.66/-5.89	-3.95/-3.84	0.86/-0.70	1.33/1.20	2.61/2.01	3.32/3.25	3.94/3.41	3.90/3.51	3.19/2.99	1.45/0.64	1.81/0.77	-0.10/-0.02	-3.10/-1.59	-4.66/-1.88	-2.12/-1.35	-1.93/-1.44	-5.40/-3.07	-3.33/1.48	0.19/-2.72	-2.55/-1.57	1.60/-0.15	1.56/-0.50	-7.05/-10.11
Θ(67.5°)	-14.86/-9.10	-6.52/-9.51	-2.33/-3.25	-0.43/-1.85	0.73/1.26	1.39/1.72	2.49/2.30	3.01/2.37	3.03/3.63	3.53/2.42	1.72/1.02	0.03/-1.72	-1.19/-1.49	-4.04/-2.64	-2.50/-2.16	-3.79/-1.43	-1.33/-2.54	-3.28/-4.08	-1.59/-2.03	-3.57/-1.69	-2.38/-0.09	1.66/-0.29	-1.71/-2.41	-6.04/-13.98
Θ(75°)	-7.43/-2.93	-2.05/-4.44	-3.27/-3.17	-0.73/-2.95	-1.18/0.97	-0.06/1.57	1.83/1.68	2.13/1.93	2.12/2.98	3.40/1.79	1.84/1.65	-0.13/-3.20	-3.00/-3.18	-1.85/-4.10	-2.18/-1.23	-4.72/-2.23	-2.92/-4.37	-2.45/-1.16	-2.02/-0.70	-0.04/0.85	0.95/1.88	0.96/0.33	-1.95/-1.93	-5.89/-8.90
Θ(82.5°)	-4.42/-0.45	-1.24/-1.18	-0.44/-3.98	-0.12/-4.32	-4.35/-0.52	-0.74/0.63	0.22/0.79	0.92/1.41	1.66/2.70	2.50/2.77	0.64/0.79	-1.11/-4.66	-2.99/-4.94	-2.69/-3.98	-2.07/-1.15	-5.84/-2.23	-3.09/-4.94	-3.45/0.90	-2.57/0.12	0.80/2.42	2.06/2.28	-0.90/-1.05	-1.40/-2.86	-5.64/-5.18
Θ(90°)	-3.02/-0.56	-2.27/-0.52	-5.24/-4.80	-0.67/-4.75	-5.36/-2.05	-1.73/-1.85	-1.45/0.46	-0.14/1.09	1.66/1.85	1.82/-0.76	-0.82/-0.68	-1.21/-5.24	-3.36/-5.06	-3.30/-4.65	-3.56/-2.13	-1.73/0.21	-1.01/1.53	-1.73/0.21	-0.10/1.53	1.34/1.08	-3.39/-4.07	-2.32/-5.22	-0.43/-3.46	
Θ(97.5°)	-3.34/-1.49	-4.12/-1.44	-7.14/-0.53	-1.60/-4.92	-5.78/-3.40	-3.48/-2.18	-2.25/-0.03	-0.79/0.67	1.21/0.21	0.70/-1.65	-1.67/-1.43	-1.97/-4.94	-4.98/-6.73	-3.17/-5.14	-4.67/-4.84									



Antenna Pattern of 2.4GHz/5GHz/6GHz

Appendix E

θ (75°)	-3.82/-6.35	-2.64/-4.85	-3.93/-3.46	-2.41/-2.84	-1.09/-4.75	-0.17/-2.22	-1.79/-0.74	1.05/-0.53	1.63/-3.78	3.63/-2.94	2.65/-0.31	0.83/-3.08	-1.37/-3.52	-3.71/-6.79	-0.01/-6.66	-3.29/-2.84	-6.59/-6.76	-4.80/-4.01	-7.29/-2.37	-3.10/-1.41	-1.73/-1.67	-0.60/-0.40	-1.24/-2.48	-8.20/-11.93
θ (82.5°)	-2.16/-5.82	-1.46/-3.67	-5.95/-4.73	-2.93/-3.71	-2.10/-3.26	-3.15/-1.01	-2.61/-0.89	-0.72/-0.87	2.27/-3.21	3.49/-3.53	2.01/-1.23	-0.02/-4.95	-2.41/-4.49	-5.54/-7.73	-2.37/-6.15	-2.84/-4.25	-8.87/-8.68	-4.30/-2.67	-5.89/-1.48	-1.48/-4.40	0.25/-0.56	-3.13/-0.45	-1.96/-3.74	-11.27/-9.19
θ (90°)	-3.39/-5.90	-2.20/-3.35	-7.92/-5.81	-6.83/-4.76	-3.28/-3.92	-4.14/-2.84	-4.67/-1.39	-1.43/-1.01	1.62/-2.76	2.68/-2.93	1.34/-0.48	-0.41/-4.65	-3.60/-4.25	-4.16/-9.35	-0.69/-5.17	-2.19/-5.40	-8.65/-5.88	-5.19/-3.06	-5.36/-2.89	-1.89/-1.60	0.69/-0.35	-6.26/-1.48	-3.03/-5.20	-11.10/-6.51
θ (97.5°)	-5.31/-7.89	-4.86/-4.92	-8.53/-6.95	-7.91/-6.55	-5.83/-6.52	-4.48/-5.62	-5.46/-3.63	-2.41/-1.22	0.84/-1.50	2.14/-1.53	0.22/-2.62	-1.61/-4.02	-5.90/-4.78	-5.36/-8.09	-4.57/-4.93	-4.39/-5.65	-7.61/-10.90	-7.89/-5.06	-6.59/-6.28	-5.44/-4.80	-2.31/-2.76	-9.21/-3.22	-4.80/-6.06	-8.26/-6.04
θ (105°)	-8.54/-10.07	-7.94/-9.00	-8.76/-7.14	-7.80/-8.18	-7.99/-6.70	-5.34/-5.84	-6.41/-4.23	-3.51/-2.68	-0.41/-0.38	0.67/-0.87	-1.69/-4.01	-2.95/-3.66	-5.84/-6.80	-3.14/-10.44	-5.93/-8.51	-4.14/-6.66	-9.98/-15.89	-9.59/-6.01	-8.08/-7.31	-9.61/-13.25	-5.49/-8.79	-8.24/-4.76	-10.42/-6.64	-6.28/-7.15
θ (112.5°)	-14.91/-10.46	-9.84/-13.06	-7.09/-9.22	-8.06/-8.42	-10.14/-8.25	-8.01/-7.72	-6.61/-5.46	-4.18/-2.81	-0.10/-0.56	-0.72/-0.79	-2.02/-4.34	-4.52/-4.07	-8.73/-7.01	-5.89/-7.53	-9.37/-7.32	-9.26/-9.43	-13.07/-9.34	-6.67/-10.39	-5.40/-6.61	-5.71/-5.21	-15.01/-11.72	-7.24/-13.19		
θ (120°)	-10.94/-12.44	-10.08/-10.61	-8.43/-9.45	-10.58/-11.83	-13.48/-7.04	-9.52/-7.82	-8.27/-5.50	-3.91/-3.38	-2.67/-2.02	-2.34/-2.61	-2.68/-4.03	-4.64/-4.50	-6.66/-7.35	-6.14/-6.56	-9.85/-7.48	-7.62/-8.69	-9.22/-9.67	-16.33/-8.55	-10.70/-11.22	-12.20/-10.30	-5.47/-7.12	-10.11/-8.88	-11.60/-10.18	-10.73/-13.02
θ (127.5°)	-15.42/-11.41	-14.98/-9.64	-10.26/-11.94	-12.92/-13.29	-8.96/-8.18	-9.23/-6.78	-6.89/-5.48	-5.45/-4.12	-2.88/-2.73	-3.20/-3.40	-4.58/-6.58	-7.43/-6.82	-9.29/-8.36	-5.57/-5.54	-9.60/-9.93	-8.89/-8.42	-11.49/-12.28	-12.59/-7.17	-12.59/-10.26	-15.51/-13.37	-12.85/-7.14	-8.96/-15.56	-8.80/-8.16	-15.13/-10.99
θ (135°)	-14.50/-11.10	-12.60/-13.65	-15.11/-15.22	-12.35/-12.75	-9.51/-8.11	-9.89/-7.49	-6.86/-5.57	-4.51/-5.30	-4.13/-3.46	-3.48/-4.32	-3.80/-6.76	-5.90/-5.88	-6.41/-7.74	-8.56/-4.52	-9.60/-10.58	-5.70/-10.73	-10.84/-15.24	-13.63/-9.90	-11.82/-11.18	-13.75/-15.14	-15.02/-5.26	-11.86/-12.04	-12.45/-10.82	-12.55/-12.23
θ (142.5°)	-13.90/-14.93	-15.23/-15.59	-12.06/-12.60	-11.18/-10.60	-8.89/-9.00	-10.18/-8.40	-6.11/-7.02	-5.45/-5.38	-3.90/-3.14	-4.37/-5.12	-7.01/-6.77	-6.77/-9.77	-9.53/-7.71	-5.53/-4.33	-7.49/-8.66	-12.42/-11.88	-14.13/-15.50	-8.53/-10.28	-11.71/-12.50	-13.14/-15.07	-15.57/-14.71	-12.51/-14.79	-12.34/-15.28	-14.34/-14.31
θ (150°)	-15.76/-13.26	-14.29/-15.55	-12.78/-14.13	-11.23/-8.47	-9.19/-10.53	-10.25/-6.02	-4.87/-7.04	-5.37/-4.58	-5.78/-5.47	-5.66/-5.73	-5.54/-6.45	-5.81/-9.29	-11.37/-7.86	-5.65/-6.18	-9.01/-8.63	-8.83/-12.46	-11.96/-11.37	-9.17/-10.43	-13.70/-9.58	-13.28/-15.73	-15.70/-13.52	-16.08/-14.11	-11.84/-14.74	-14.15/-12.33
θ (157.5°)	-12.19/-11.57	-12.22/-13.91	-12.30/-11.71	-12.45/-10.43	-9.44/-9.45	-10.74/-7.74	-5.40/-6.08	-7.95/-6.90	-0.05/-6.00	-6.80/-7.38	-8.48/-8.40	-8.95/-9.30	-7.43/-7.44	-6.92/-7.32	-11.75/-14.07	-15.23/-14.20	-14.86/-15.20	-15.52/-15.50	-15.14/-14.56	-14.77/-13.61	-15.35/-13.49	-12.24/-14.57		
θ (165°)	-14.68/-12.61	-10.18/-10.85	-12.84/-12.25	-11.06/-9.64	-10.37/-12.02	-10.52/-8.33	-7.26/-7.92	-8.56/-9.21	-9.39/-8.61	-8.30/-7.16	-7.71/-7.78	-8.59/-8.62	-8.38/-8.31	-8.24/-7.37	-7.15/-9.05	-14.09/-15.41	-15.15/-13.98	-11.43/-11.18	-15.51/-14.46	-12.37/-11.46	-10.14/-9.89	-10.40/-11.58	-13.41/-14.14	-14.74/-15.25
θ (172.5°)	-8.88/-9.01	-9.38/-9.06	-8.13/-8.44	-8.43/-8.58	-10.06/-10.65	-9.94/-9.29	-9.24/-9.21	-9.04/-10.16	-10.18/-11.20	-12.96/-12.91	-13.07/-11.30	-11.73/-9.26	-10.30/-10.67	-8.79/-8.80	-11.38/-15.10	-15.42/-16.28	-15.83/-15.89	-15.06/-15.44	-14.77/-14.10	-13.17/-13.32	-14.88/-15.04	-15.90/-14.94	-13.34/-11.74	-9.62/-10.13
θ (180°)	-10.19/-10.17	-10.27/-10.32	-10.14/-10.04	-9.52/-9.46	-9.12/-8.48	-8.75/-9.00	-7.79/-7.94	-8.13/-8.99	-8.64/-8.68	-8.56/-9.96	-8.36/-9.72	-9.95/-10.48	-13.78/-13.82	-14.70/-13.57	-13.85/-15.41	-15.60/-14.42	-10.22/-8.87	-9.45/-10.17	-10.86/-12.94	-12.47/-12.48	-11.47/-10.58	-10.86/-9.66	-10.39/-9.76	
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°)	-0.01/-0.31	-0.47/-0.39	-0.29/-0.21	-0.15/-0.16	-0.26/-0.37	-0.37/-0.24	-0.17/-0.28	-0.45/-0.45	-0.27/-0.03	0.27/-0.47	0.51/-0.44	0.43/-0.47	0.50/-0.46	0.38/-0.28	0.16/-0.09	0.09/-0.16	0.18/-0.19	0.20/-0.70	0.14/-0.21	-0.57/-0.80	-0.63/-0.10	0.40/-0.64	0.61/-0.41	
θ (7.5°)	1.44/-1.10	0.80/-0.68	0.66/-0.72	0.76/-0.69	0.47/-0.26	0.16/-0.19	0.14/-0.18	-0.57/-0.86	-1.03/-1.07	-0.94/-0.74	-0.59/-0.44	-0.32/-0.32	-0.44/-0.69	-0.92/-1.09	-1.11/-1.02	-0.84/-0.60	-0.44/-0.29	0.01/-0.43	0.71/-0.74	0.68/-0.58	0.45/-0.31	0.31/-0.65	1.15/-1.51	1.65/-1.61
θ (15°)	1.95/-1.61	1.30/-1.09	0.95/-0.93	0.93/-0.84	0.64/-0.46	0.41/-0.37	0.14/-0.33	-0.95/-1.47	-1.89/-2.15	-2.22/-2.06	-1.62/-0.96	-0.39/-0.07	-0.09/-0.38	-0.83/-1.27	-1.53/-1.52	-1.33/-1.05	-0.81/-0.60	-0.22/-0.31	0.76/-1.02	1.14/-1.21	1.27/-1.27	1.26/-1.33	1.56/-1.86	2.07/-2.11
θ (22.5°)	1.73/-1.41	1.16/-0.96	0.72/-0.56	0.51/-0.44	0.36/-0.31	0.23/-0.23	0.17/-0.87	-1.70/-2.33	-2.55/-2.48	-2.34/-2.18	-1.79/-0.98	-0.25/-0.31	0.54/-0.36	-0.12/-0.73	-1.21/-1.34	-1.24/-1.01	-0.75/-0.44	-0.01/-0.51	0.96/-1.30	1.52/-1.62	1.61/-1.54	1.40/-1.36	1.39/-1.56	1.81/-1.91
θ (30°)	2.03/-1.80	1.65/-1.49	1.15/-0.65	0.16/-0.20	-0.34/-0.33	-0.25/-0.31	-0.62/-1.25	-1.90/-2.27	-2.14/-1.68	-1.37/-1.39	-1.73/-1.83	-1.29/-0.33	0.48/-0.86	0.70/-0.13	-0.57/-0.94	-0.98/-0.79	-0.39/-0.16	0.78/-1.23	1.52/-1.71	1.82/-1.80	1.64/-1.38	1.18/-1.23	1.45/-1.73	2.06/-2.25
θ (37.5°)	3.39/-3.16	2.84/-2.41	1.83/-0.99	-0.07/-0.14	-1.56/-1.63	-1.33/-1.08	-1.02/-1.12	-1.26/-1.26	-1.08/-0.86	-0.92/-1.48	-2.28/-2.71	-1.92/-0.59	0.53/-1.17	1.20/-0.72	-0.03/-0.64	-0.91/-0.85	-0.51/-0.21	1.08/-1.77	2.08/-2.07	1.86/-1.54	1.22/-1.01	0.99/-1.37	2.02/-2.68	3.23/-4.43
θ (45°)	4.40/-4.22	3.70/-2.99	2.16/-1.06	-0.50/-2.28	-3.24/-2.80	-1.60/-0.68	-0.28/-0.38	-0.61/-0.74	-0.79/-0.91	-1.29/-1.99	-2.76/-2.74	-1.76/-0.55	0.40/-1.17	1.63/-1.57	1.01/-0.33	-0.21/-0.66	-1.08/-0.88	0.18/-1.34	2.02/-2.05	1.58/-0.99	0.67/-0.79	1.21/-1.87	2.71/-3.48	4.09/-4.37
θ (52.5°)	5.29/-5.11	4.39/-3.42	2.37/-1.01	-0.98/-3.22	-3.75/-1.87	0.04/-0.93	0.70/-0.30	-1.43/-2.06	-2.27/-2.35	-2.46/-2.52	-1.81/-0.60	0.33/-0.90	1.26/-1.64	1.84/-1.70	1.33/-1.00	0.81/-0.39	-0.46/-1.05	-0.57/-0.67	1.63/-1.83	1.24/-0.39	0.23/-0.88	1.69/-2.36	3.02/-3.70	4.35/-4.86
θ (60°)	5.49/-5.16	4.28/-2.29	2.23/-0.67	-1.52/-5.35	-3.34/-0.92	1.11/-1.84	1.11/-0.64	-2.16/-2.60	-3.00/-3.40	-3.47/-3.30	-1.36/-0.68	1.83/-2.25	2.45/-2.67	2.67/-2.22	1.35/-0.80	0.94/-1.11	0.76/-0.11	-0.13/-0.56	1.53/-1.83	1.14/-0.05	-0.06/-1.05	2.15/-2.85	3.42/-4.05	4.76/-5.35
θ (67.5°)	4.89/-4.48	3.78/-2.99	2.05/-0.75	-0.78/-2.09	-2.44/-0.91	0.99/-1.73	0.95/-0.76	-1.57/-1.46	-2.28/-3.99	-5.52/-5.61	-2.28/-0.57	1.84/-2.15	2.38/-2.72	2.85/-2.49	1.64/-0.85	0.71/-0.62	-0.03/-0.68	-0.62/-0.40	1.45/-1.60	0.66/-0.53	-0.46/-0.81	2.16/-3.13	3.79/-2.26	4.70/-4.97
θ (75°)	4.28/-4.02	3.29/-2.47	1.91/-1.25	-0.25/-1.12	-2.27/-1.54	0.33/-1.13	0.32/-1.65	-2.16/-1.54	-2.46/-5.18	-8.84/-10.93	-5.22/-0.62	1.34/-1.69	1.39/-1.18	1.17/-1.23	1.10/-0.93	1.16/-1.01	-0.06/-1.45	-1.62/-0.13	1.29/-1.47	0.45/-0.65	-0.35/-0.85	2.13/-0.77	3.49/-3.67	3.86/-4.12
θ (82.5°)	3.95/-3.24	2.01/-1.41	1.34/-0.80	-0.36/-1.77	-2.97/-2.45	-0.51/-0.20	-0.79/-2.97	-2.86/-1.92	-3.42/-7.45	-13.14/-15.91	-7.70/-1.93	0.05/-0.76	1.05/-0.89	0.43/-0.17	-0.15/-0.39	0.16/-0.49	-0.29/-1.70	-1.97/-0.41	1.03/-1.46	0.21/-0.48	0.31/-1.24	2.21/-2.75	3.07/-3.44	3.71/-4.02
θ (90°)	2.30/-1.45	0.84/-0.80	0.68/-0.02	-0.76/-1.58	-3.24/-4.03	-1.60/-0.42	-1.19/-2.57	-1.38/-0.02	-0.91/-3.79	-8.10/-13.85	-8.85/-3.95	-2.78/-2.61	-1.25/-0.25	-0.10/-0.04	0.16/-0.17	-0.43/-0.41	-1.27/-2.74	-3.02/-1.35	0.36/-0.62	-0.33/-1.12	-0.84/-0.18	1.31/-2.10	2.56/-2.81	2.99/-2.91
θ (97.5°)	1.41/-1.49	1.39/-0.96	0.34/-0.69	-1.73/-3.01	-5.68/-5.54	-1.35/-0.31	-0.48/-2.10	-1.04/-0.39	-0.30/-2.82	-6.86/-12.45	-6.83/-2.40	-2.03/-3.07	-2.90/-1.91	-2.15/-1.86	-1.11/-0.86	-0.83/-1.14	-2.41/-3.91	-3.84/-1.24	0.82/-1.15	0.30/-0.48	-0.80/-0.43	0.80/-1.62	1.82/-1.72	1.70/-1.61
θ (105°)	1.34/-1.40	0.60/-0.55	-1.76/-3.03	-2.91/-1.86	-2.09/-2.67	-1.60/-0.60	-1.55/-3.68	-2.87/-0.86	-0.75/-2.48	-5.83/-11.24	-7.68/-2.62	-1.80/-3.50	-4.11/-3.83	-3.77/-3.26	-2.37/-1.58	-0.85/-0.62	-1.13/-2.24	-3.48/-2.16	-0.00/-0.48	-0.06/-0.05	0.35/-0.38	0.89/-1.41	1.47/-1.12	0.87/-1.00
θ (112.5°)	0.60/-0.53	-0.60/-1.77	-2.04/-1.62	-0.65/-0.14	-1.28/-2.45	-5.53/-4.01	-3.93/-4.54	-3.16/-1.65	-1.72/-3.25	-6.29/-0.95	-4.11/-1.21	-1.90/-1.57	-6.47/-5.15	-3.13/-2.41	-3.10/-3.48	-2.84/-2.35	-2.19/-2.17	-1.80/-0.38	0.91/-0.70	-0.56/-1.09	-1.07/-1.81	-2.16/-1.59	-0.96/-1.08	-1.13/-0.33
θ (120°)	0.26/-0.31	-0.40/-1.23	-1.98/-2.85	-3.39/-3.72	-5.60/-9.59	-6.89/-3.31	-2.60/-3.93	-5.33/-4.96	-4.86/-5.89	-7.88/-9.47	-5.31/-2.22	-4.27/-5.94	-9.01/-7.42	-3.38/-1.26	-1.19/-2.19	-3.23/-3.92	-4.37/-5.15	-4.47/-1.51	0.68/-1.23	0.56/-1.02	0.03/-0.91	-2.65/-3.29	-2.64/-1.91	-1.22/-0.31
θ (127.5°)	-0.62/-0.44	-1.30/-3.20	-6.15/-6.85	-6.40/-3.29	-2.33/-2.80	-3.23/-2.77	-2.97/-4.72	-7.98/-10.01	-8.67/-9.88	-11.97/-11.85	-7.66/-4.68	-4.73/-6.45	-7.81/-7.											



Antenna Pattern of 2.4GHz/5GHz/6GHz

Appendix E

Θ(120°)	-5.88/-6.56	-5.22/-8.32	-9.95/-12.36	-14.99/-9.33	-12.11/-11.34	-12.71/-10.95	-6.65/-5.57	-6.38/-6.44	-8.28/-5.30	-2.47/-5.69	-12.95/-11.51	-9.85/-4.38	-6.51/-8.60	-8.01/-6.57	-6.32/-1.95	-2.45/-6.47	-3.43/-0.82	-6.03/-8.23	-3.15/-2.69	1.35/-2.87	-1.55/-4.11	-3.82/-5.78	-1.87/-4.00	-4.12/-3.71
Θ(127.5°)	-7.59/-8.84	-7.36/-8.62	-11.85/-9.97	-14.05/-15.12	-11.41/-8.15	-12.66/-13.05	-14.17/-10.56	-10.57/-8.70	-10.12/-4.26	-3.73/-8.94	-15.13/-14.01	-5.28/-7.45	-11.13/-10.63	-8.14/-8.35	-3.83/-3.17	-3.20/-8.52	-3.29/-2.16	-6.54/-9.29	-3.57/-3.53	-1.45/-2.88	-6.94/-6.99	-4.77/-1.85	-1.64/-1.63	-5.81/-5.87
Θ(135°)	-5.82/-3.72	-6.05/-6.90	-6.58/-0.70	-9.07/-14.75	-15.18/-10.44	-10.63/-9.05	-16.16/-6.98	-13.29/-12.50	-7.69/-9.11	-6.24/-13.45	-1.96/-4.58	-1.59/-8.14	-6.14/-4.05	-7.16/-6.63	-3.23/-2.70	-8.61/-8.18	-3.23/-2.70	-7.74/-12.11	-7.77/-4.57	-4.21/-1.44	-5.50/-9.80	-9.14/-3.60	-0.77/-2.02	-3.21/-5.51
Θ(142.5°)	-7.72/-5.38	-6.33/-8.29	-8.33/-9.24	-12.57/-13.83	-15.09/-15.45	-15.76/-11.12	-7.79/-9.99	-11.37/-15.02	-14.93/-13.53	-15.00/-10.09	-8.64/-9.82	-6.36/-1.92	-6.11/-4.08	-5.61/-6.81	-8.31/-14.23	-9.96/-3.15	-2.87/-4.09	-7.02/-15.50	-10.13/-6.81	-5.80/-5.60	-3.50/-8.36	-13.17/-7.68	-6.74/-3.67	-3.94/-7.40
Θ(150°)	-11.79/-11.58	-13.28/-8.33	-9.05/-12.83	-11.27/-9.03	-8.29/-11.64	-13.65/-10.51	-9.00/-9.10	-10.67/-12.16	-14.73/-12.78	-10.78/-10.60	-11.98/-14.95	-14.71/-13.14	-15.91/-10.42	-9.40/-11.81	-13.91/-15.44	-15.84/-8.94	-6.53/-6.43	-10.30/-14.70	-16.02/-12.05	-7.80/-11.59	-9.89/-4.73	-11.72/-14.50	-8.08/-5.83	-8.38/-11.74
Θ(157.5°)	-14.26/-11.22	-10.30/-10.82	-9.49/-6.93	-7.63/-10.32	-13.10/-11.71	-11.76/-12.27	-11.03/-11.12	-13.00/-14.56	-13.14/-11.56	-10.62/-12.67	-12.02/-6.11	-12.99/-13.49	-11.83/-10.74	-5.24/-5.03	-5.46/-6.99	-8.06/-1.87	-8.32/-9.28	-12.75/-15.01	-12.11/-13.68	-14.45/-11.72	-7.20/-5.11	-4.52/-6.41	-6.35/-10.11	
Θ(165°)	-6.35/-6.91	-10.38/-14.68	-13.20/-11.59	-11.67/-11.66	-9.96/-9.09	-9.92/-12.85	-15.56/-15.94	-15.34/-15.00	-14.85/-15.88	-14.25/-10.68	-8.65/-7.75	-8.02/-8.72	-8.75/-9.32	-9.50/-8.28	-7.24/-7.96	-9.30/-9.71	-9.84/-11.82	-14.07/-14.96	-14.70/-15.15	-11.49/-9.11	-9.26/-10.26	-9.60/-10.94	-8.75/-7.51	-8.75/-8.30
Θ(172.5°)	-8.15/-11.24	-14.90/-15.71	-15.11/-13.51	-11.99/-11.96	-11.05/-9.72	-9.30/-9.92	-11.52/-13.61	-13.89/-14.46	-14.51/-15.20	-15.87/-15.01	-15.64/-14.93	-14.91/-14.53	-13.71/-14.09	-13.65/-12.97	-13.26/-13.02	-14.27/-14.00	-13.20/-13.22	-13.43/-13.01	-13.44/-14.86	-12.33/-10.68	-9.89/-9.24	-9.49/-10.88	-8.83/-6.73	-7.08/-6.83
Θ(180°)	-15.17/-14.58	-13.47/-12.28	-12.59/-12.80	-14.42/-13.93	-13.92/-13.65	-13.07/-13.35	-10.60/-9.51	-9.39/-9.82	-11.19/-12.52	-12.65/-13.21	-13.90/-13.31	-12.74/-12.03	-12.16/-12.44	-13.07/-13.04	-12.48/-12.84	-15.43/-14.60	-12.87/-12.32	-11.77/-12.47	-11.86/-11.77	-11.40/-11.30	-11.18/-11.40	-15.31/-15.37	-14.62/-14.48	
Freq(Hz)	5.785GPdL	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°)	0.86/1.30	1.37/1.65	1.49/1.55	1.86/1.99	1.71/1.32	1.54/1.64	1.77/1.80	1.75/1.62	1.72/2.02	2.18/1.98	2.11/2.23	2.14/2.16	2.21/2.41	2.53/2.39	2.24/2.22	2.25/2.09	1.95/1.92	1.90/1.79	1.72/1.75	1.62/1.42	1.29/1.30	1.46/1.01	0.66/0.46	0.60/0.89
Θ(7.5°)	2.81/3.12	3.22/2.85	2.38/1.71	1.46/1.28	0.60/-0.08	-0.25/-0.68	-0.77/-0.63	-0.46/-0.42	-0.56/-0.75	-0.38/-0.27	-0.15/0.44	0.32/0.38	0.56/0.71	1.11/1.06	0.91/1.15	1.31/1.31	1.30/1.49	1.52/1.53	1.54/1.75	1.66/1.99	2.16/2.22	2.39/2.43	2.65/2.65	2.42/2.70
Θ(15°)	1.03/1.33	2.43/2.96	2.76/1.98	1.11/1.30	-0.58/-0.88	-1.01/-1.09	-0.96/-0.53	-0.13/0.01	-0.27/-0.73	-0.94/-0.97	-0.88/-0.83	-0.86/-0.66	0.01/0.51	0.84/0.73	0.03/-0.60	-1.10/-0.85	-0.03/0.93	1.31/1.51	1.28/0.86	0.82/0.95	1.12/1.32	1.53/1.82	1.30/0.79	0.90/0.90
Θ(22.5°)	1.48/0.37	-0.87/0.29	1.35/1.06	-0.22/-1.75	-1.13/0.84	1.40/0.73	-0.49/-1.22	-1.26/-0.86	-0.65/-1.02	-0.86/0.17	0.68/0.30	-0.63/-0.71	0.36/0.98	1.45/1.59	1.65/1.44	0.91/0.33	0.51/1.44	2.11/2.92	3.13/0.07	2.89/2.73	3.02/2.88	2.82/2.94	2.13/0.88	0.43/1.13
Θ(30°)	1.00/2.04	1.74/0.74	-0.00/0.24	-0.42/-2.11	-0.58/2.73	3.04/1.52	0.16/0.03	0.22/0.25	-0.92/-2.95	-4.30/-3.00	-0.62/0.32	-0.78/-3.51	-4.06/-2.02	-0.61/-0.79	0.41/1.71	1.45/0.89	1.44/1.77	1.70/2.88	3.63/3.66	3.33/3.44	3.89/3.88	3.52/3.33	2.71/1.13	0.07/-0.12
Θ(37.5°)	-0.31/1.39	-2.78/1.58	-0.48/0.58	1.79/0.29	-0.79/2.22	2.10/0.07	0.00/0.36	-0.55/-1.30	-1.06/-0.60	-0.32/-2.56	-0.59/-3.75	-1.46/-1.55	-4.39/-4.46	-1.26/-2.33	-3.46/-1.05	-1.96/-2.52	1.29/1.59	-0.02/-1.67	2.82/2.34	2.06/3.33	3.96/3.79	3.80/4.23	4.38/3.96	2.92/1.21
Θ(45°)	1.26/0.49	-1.86/1.70	-0.32/-0.16	1.80/0.72	-2.73/0.60	0.77/0.35	-0.76/0.13	-0.27/0.64	1.26/0.82	0.35/0.42	0.76/0.12	-2.44/-3.34	-2.00/-3.86	-3.04/-3.14	4.96/-1.11	-1.49/-3.96	-0.27/0.24	-1.43/0.22	1.71/0.81	1.05/3.13	3.59/3.31	3.62/4.29	3.92/2.56	1.45/-1.39
Θ(52.5°)	1.90/1.31	-2.24/4.54	-1.43/-1.34	0.35/0.04	-2.16/0.55	-0.10/0.04	-0.72/0.91	2.89/2.69	2.25/1.11	-1.11/-3.04	-2.54/-2.08	-4.06/-5.32	-3.77/-10.55	-9.68/-6.05	-8.34/-2.91	-1.95/-6.92	-1.49/-0.61	-0.77/0.33	1.28/0.18	1.65/3.07	2.95/2.71	2.63/3.37	4.06/2.87	0.63/0.66
Θ(60°)	0.21/0.36	-1.23/-4.37	-2.74/-2.42	-2.61/-1.72	-1.21/0.16	-2.68/-0.37	-0.76/2.13	1.70/-2.84	2.94/-1.40	-1.24/-2.08	-1.48/-1.28	-6.48/-6.14	-7.59/-10.40	-12.86/-12.14	-14.58/-9.12	-2.56/-4.49	-0.63/-1.83	1.27/0.90	2.49/1.67	2.26/2.93	2.74/2.82	2.20/1.16	2.35/2.71	1.11/-10.08
Θ(67.5°)	-1.06/-1.67	-3.02/-3.56	-4.99/-2.48	-5.07/-3.70	-1.76/-1.69	-5.09/-0.79	-0.46/2.46	-1.14/0.34	1.94/-1.00	0.28/1.41	0.26/1.78	-1.00/-7.61	-10.02/-7.00	-9.18/-11.84	-11.37/-14.08	-4.73/-4.18	1.29/-1.94	2.40/2.82	2.94/2.91	2.51/2.71	2.28/2.57	2.46/1.62	0.76/1.54	0.40/-1.69
Θ(75°)	-3.53/-4.99	-4.90/-3.94	-8.57/-2.73	-5.85/-6.00	-5.42/-4.72	-6.09/-1.14	0.12/1.69	-2.07/3.80	4.42/2.48	1.14/0.19	0.40/0.97	-0.31/-6.87	-6.67/-4.19	-4.61/-5.42	-8.32/-7.91	-2.79/-3.91	2.04/-1.36	2.08/-0.04	2.84/3.90	3.29/3.45	2.59/2.39	1.97/1.90	1.37/0.59	-0.60/-2.98
Θ(82.5°)	-4.67/-8.72	-4.78/-4.07	-10.35/-4.78	-8.74/-8.63	-8.43/-5.26	-5.26/-2.51	-0.53/1.09	-2.56/3.06	3.68/2.38	0.57/0.25	0.55/1.73	-3.74/-8.16	-3.96/-2.35	-2.25/-1.75	-4.65/-4.60	-0.97/-1.38	1.27/2.48	2.75/3.79	3.42/3.44	2.58/1.80	1.24/0.31	0.80/0.36	-1.92/-3.89	
Θ(90°)	-5.65/-10.96	-5.82/-4.94	-11.41/-7.59	-11.34/-11.31	-12.76/-7.54	-7.12/-4.39	-3.23/-0.30	-3.64/0.62	1.15/0.93	-1.14/-2.05	0.39/-2.89	-6.67/-8.84	-1.70/-2.75	-0.40/-0.86	-3.71/-4.50	-0.11/0.84	-0.72/-1.02	0.57/2.16	1.31/2.14	1.31/0.95	0.36/-1.07	0.31/0.36	-3.92/-5.08	
Θ(97.5°)	-6.19/-8.63	-7.21/-6.04	-11.89/-9.43	-13.83/-11.82	-12.86/-7.00	-8.48/-5.86	-6.23/-3.28	-3.87/-2.52	-1.47/-1.53	-2.38/-1.58	-2.95/-5.59	-8.13/-6.44	-1.11/-1.50	-3.16/-2.88	-3.18/-3.91	-1.44/-2.65	-2.94/-0.53	-2.33/-3.62	-2.57/0.43	-1.57/0.10	0.52/-0.87	-0.74/-1.48	-0.16/-0.57	-3.34/-5.75
Θ(105°)	-6.54/-7.31	-8.78/-6.08	-10.66/-10.77	-15.95/-15.23	-13.78/-3.70	-7.76/-6.21	-7.79/-7.79	-6.74/-6.23	-4.45/-3.28	-2.70/-1.85	-3.20/-0.82	-8.03/-5.36	-0.65/-2.83	-2.61/-0.46	-6.14/-4.76	-3.63/-4.19	-5.89/-4.03	-3.83/-4.40	-4.78/-4.00	-3.09/-2.59	-1.52/-1.82	-1.97/-1.74	-0.90/-1.50	-3.40/-5.87
Θ(112.5°)	-6.53/-7.75	-5.68/-7.03	-13.93/-15.47	-15.07/-8.93	-7.48/-9.49	-5.86/-6.92	-7.12/-4.39	-1.26/-3.03	-3.64/0.62	1.15/0.93	-1.14/-2.05	0.39/-2.89	-6.67/-8.84	-1.70/-2.75	-0.40/-0.86	-3.71/-4.50	-0.11/0.84	-0.72/-1.02	0.57/2.16	1.31/2.14	1.31/0.95	0.36/-1.07	0.31/0.36	-3.92/-5.08
Θ(120°)	-5.20/-7.54	-7.80/-7.70	-11.92/-14.85	-14.65/-10.14	-13.88/-13.44	-11.71/-9.10	-6.40/-6.73	-9.43/-7.36	-4.99/-6.36	-3.72/-7.83	-11.43/-15.46	-11.26/-5.74	-7.27/-10.20	-11.58/-9.35	-10.06/-1.95	-1.87/-5.82	-6.33/-0.59	-4.03/-10.31	-5.09/-4.92	-0.36/-4.39	-0.87/-3.88	-7.49/-2.50	-2.78/-2.67	-5.26/-6.91
Θ(127.5°)	-6.74/-10.80	-9.35/-10.71	-11.93/-10.56	-14.57/-15.20	-10.12/-10.07	-12.87/-12.17	-13.39/-15.33	-13.84/-7.42	-11.91/-3.77	-3.31/-1.99	-14.34/-14.72	-8.59/-8.65	-8.22/-11.70	-8.45/-11.39	-8.03/-4.24	-5.82/-11.78	-3.62/-0.94	-5.72/-14.89	-4.98/-4.86	-1.23/-6.98	-2.25/-6.86	-4.97/-6.53	-1.58/-2.30	-6.91/-7.09
Θ(135°)	-5.70/-5.80	-8.35/-7.09	-4.89/-13.07	-11.91/-14.14	-15.95/-14.28	-14.67/-11.52	-8.99/-3.46	-15.56/-12.71	-14.92/-6.22	-5.36/-15.16	-6.72/-6.06	-7.53/-10.69	-7.94/-4.05	-6.54/-7.16	-3.12/-9.14	-10.15/-11.73	-1.79/-1.69	-7.41/-14.32	-9.84/-5.36	-4.51/-2.99	-8.53/-6.23	-10.12/-3.91	-1.81/-1.96	-4.46/-7.07
Θ(142.5°)	-7.75/-7.23	-6.05/-7.33	-6.53/-9.59	-12.78/-14.90	-15.24/-14.86	-15.35/-14.19	-13.01/-12.30	-15.87/-13.88	-15.50/-15.84	-5.58/-10.41	-11.01/-15.32	-8.04/-2.36	-4.65/-3.40	-6.58/-8.61	-10.22/-15.73	-13.32/-6.14	-4.19/-4.38	-9.29/-12.89	-11.52/-5.80	-5.40/-6.09	-6.92/-14.06	-11.56/-8.30	-6.77/-4.67	-8.38/-9.90
Θ(150°)	-9.60/-8.53	-14.56/-11.22	-10.12/-13.38	-14.21/-11.65	-10.82/-11.55	-13.74/-13.22	-10.59/-11.81	-13.66/-12.04	-10.42/-11.21	-11.96/-9.53	-10.15/-13.22	-11.21/-12.30	-15.17/-13.00	-13.24/-15.00	-14.00/-15.15	-15.95/-9.53	-7.00/-7.27	-9.34/-13.19	-15.65/-15.69	-9.66/-11.66	-9.58/-7.70	-10.05/-7.86	-8.86/-9.55	-10.18/-10.71
Θ(157.5°)	-14.10/-13.81	-11.13/-10.83	-8.54/-6.50	-5.75/-7.04	-9.58/-13.27	-14.78/-11.91	-10.04/-11.26	-13.79/-16.23	-14.52/-15.49	-12.55/-12.37	-13.21/-10.81	-12.91/-15.16	-12.43/-8.92	-6.21/-5.54	-6.50/-8.83	-11.05/-11.16	-9.65/-9.30	-12.61/-14.69	-13.21/-12.51	-11.16/-12.55	-12.85/-10.86	-8.83/-7.38	-6.28/-5.16	-6.52/-10.42
Θ(165°)	-6.07/-6.15	-9.73/-10.13	-13.18/-11.11	-10.04/-10.44	-10.96/-10.90	-10.68/-10.55	-12.08/-15.84	-14.85/-15.55	-14.21/-15.30	-13.20/-12.76	-11.86/-10.20	-10.12/-9.26	-8.10/-7.43	-7.67/-7.30	-6.92/-7.27	-9.47/-12.85	-13.77/-12.32	-11.05/-11.05	-12.13/-10.85	-9.85/-9.37	-9.50/-9.46	-9.52/-9.01	-9.04/-9.04	-9.47/-8.22
Θ(172.5°)	-8.38/-13.23</																							

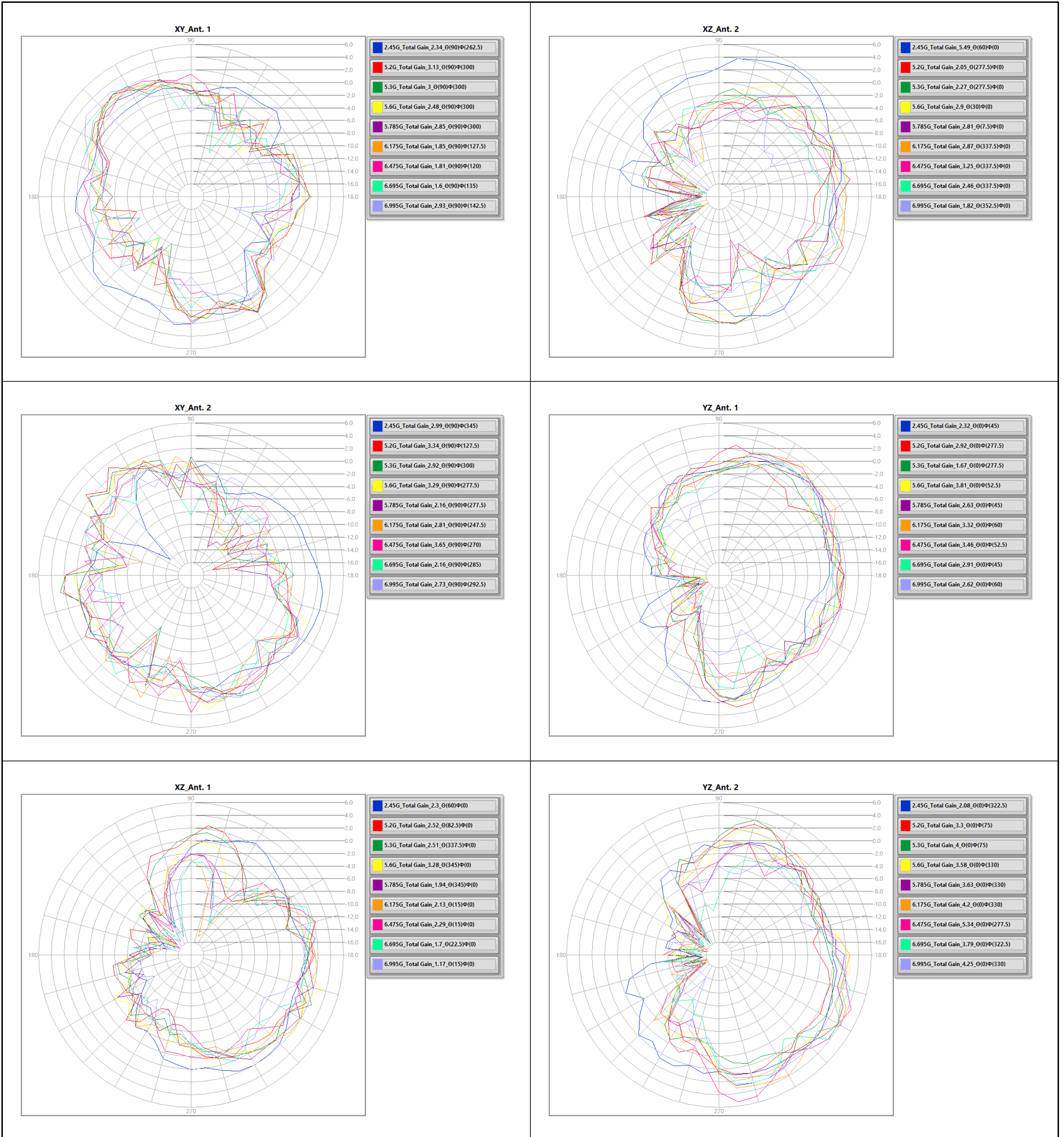


Antenna Pattern of 2.4GHz/5GHz/6GHz

Appendix E

Θ(172.5°)	-14.72/-14.83	-15.59/-14.38	-15.49/-15.13	-15.69/-15.90	-14.60/-12.40	-13.36/-13.46	-12.63/-13.32	-14.80/-14.97	-14.50/-15.11	-15.93/-15.24	-14.84/-14.02	-14.03/-13.49	-13.81/-13.83	-15.60/-15.14	-15.51/-16.08	-15.52/-15.46	-16.18/-13.05	-10.91/-8.99	-9.24/-11.02	-12.10/-12.85	-12.81/-11.80	-10.56/-9.95	-8.83/-9.70	-10.73/-13.41
Θ(180°)	-15.32/-14.74	-14.96/-15.49	-14.19/-13.61	-14.18/-15.13	-15.55/-15.04	-14.84/-15.02	-15.47/-14.78	-15.38/-14.87	-15.23/-14.82	-15.73/-15.68	-15.34/-14.73	-15.74/-14.75	-15.12/-14.89	-14.37/-14.42	-14.74/-15.34	-14.14/-12.90	-12.91/-13.09	-14.48/-14.67	-14.99/-14.96	-15.71/-15.51	-15.06/-15.96	-14.85/-13.37	-12.54/-12.97	-12.24/-14.22
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°)	0.43/0.04	-0.29/-0.81	-0.58/-0.47	-0.44/-0.38	-0.69/-0.90	-0.70/-0.20	0.20/-0.03	-0.02/0.21	0.15/-0.04	0.13/-0.14	-0.48/-0.25	-0.45/-0.54	-0.61/-0.83	-0.72/-0.77	-0.87/-0.95	-0.99/-0.97	-0.91/-0.70	-0.98/-0.54	-0.41/-0.31	-0.23/-0.37	-0.20/0.33	0.40/-0.02	0.11/0.43	0.66/0.77
Θ(7.5°)	-0.96/-0.98	-1.50/-1.77	-1.47/-1.02	-0.77/-0.27	-0.07/-0.05	0.25/0.56	0.67/0.57	0.79/1.29	1.29/1.18	1.55/1.60	1.58/1.81	1.55/1.63	1.82/1.52	1.48/1.66	1.47/1.24	1.25/1.33	1.61/1.91	2.18/2.29	2.34/2.20	2.10/1.77	1.53/1.25	0.70/0.33	-0.02/-0.46	-0.31/-0.65
Θ(15°)	-2.38/-2.32	-1.90/-1.90	-1.37/-0.99	-1.15/-0.82	-0.60/-0.64	-1.37/-1.84	-2.26/-2.03	-1.65/-1.22	-0.52/-0.07	-0.04/-0.03	-0.44/-0.91	-0.63/-0.37	0.08/1.10	2.30/3.59	3.90/3.87	3.41/2.82	2.66/2.69	2.45/2.41	2.22/1.83	1.59/1.10	0.67/0.22	-0.50/-1.50	-1.73/-1.97	-2.69/-2.05
Θ(22.5°)	-2.71/-2.62	-1.31/-1.04	-2.37/-3.87	-3.99/-2.27	-0.75/-0.68	-1.32/-2.95	-4.12/-2.86	-1.92/-1.77	-1.65/-2.10	-3.11/-1.94	-0.05/0.37	1.18/1.96	1.66/1.79	1.95/2.33	2.42/2.75	2.16/1.50	1.65/1.30	0.83/1.02	1.70/2.32	2.47/2.18	1.68/0.78	-0.83/-2.17	-2.93/-3.92	-3.77/-2.82
Θ(30°)	-8.62/-5.29	-3.13/-2.05	-3.32/-3.74	-2.86/-3.00	-3.09/-2.70	-2.93/-4.91	-3.07/-0.77	-0.40/-1.74	-3.66/-3.18	-1.60/-0.33	-0.04/-0.32	0.04/0.23	0.73/2.45	3.52/2.55	1.40/2.07	1.96/1.74	3.36/2.98	2.84/4.15	4.25/3.53	3.15/2.65	1.77/1.14	1.09/-0.28	-2.75/-5.02	-5.68/-7.88
Θ(37.5°)	-7.27/-9.02	-7.25/-5.77	-5.36/-3.44	-4.33/-5.13	-2.62/-0.82	0.34/0.16	-0.85/-1.46	-3.18/-7.40	-6.77/-6.25	-10.33/-10.51	-5.37/-2.20	-1.89/0.07	1.06/0.88	2.41/0.98	-0.64/2.93	2.63/1.02	2.23/1.16	2.38/2.38	1.64/2.96	4.13/4.33	4.74/4.59	4.22/2.75	0.27/-3.27	-7.63/-6.60
Θ(45°)	-7.91/-9.42	-11.23/-8.96	-6.70/-6.16	-6.80/-3.23	-0.40/-0.53	-0.62/-1.27	-1.91/-0.43	-3.75/-8.52	-6.28/-5.27	-3.56/-3.18	-2.34/-1.36	-0.08/-1.20	-1.25/0.26	0.71/1.05	0.93/0.96	0.55/-0.96	0.72/1.90	2.85/1.33	2.36/2.68	1.98/2.32	4.27/4.86	3.45/2.13	3.61/3.26	-0.13/-5.40
Θ(52.5°)	-6.33/-12.84	-14.49/-10.33	-12.68/-8.21	-3.55/-2.07	-1.15/-2.61	-0.72/-1.96	-1.67/-1.23	-2.21/-0.43	-3.29/-7.22	-5.14/-3.22	-0.54/-2.36	-3.87/-2.14	-6.14/-3.92	-1.99/-0.53	0.22/-1.82	-0.86/-0.14	-0.67/2.24	1.27/1.86	2.44/2.85	3.25/2.74	3.76/4.57	4.55/4.19	3.63/2.76	-0.04/-3.01
Θ(60°)	-2.37/-8.21	-13.28/-5.77	-10.65/-5.43	-3.41/-3.95	-1.13/-2.87	-0.73/-0.81	-0.30/0.20	1.51/0.41	-3.91/-3.69	-1.71/-1.12	-3.43/-3.71	-4.19/-2.00	-1.77/-6.06	-2.13/-2.76	-2.59/-3.37	-1.14/-2.05	-1.10/1.22	0.00/1.71	2.46/3.41	4.37/3.91	3.86/3.05	4.14/4.37	4.09/2.22	-1.06/-2.86
Θ(67.5°)	-2.38/-7.01	-8.32/-3.49	-4.92/-3.47	-6.34/-5.15	-1.13/-1.11	-2.23/0.02	-2.61/-0.15	0.62/-1.44	-5.99/-3.86	-4.12/-4.14	-8.47/-3.40	-0.76/-1.54	-3.55/-5.02	-5.65/-4.62	-3.49/-1.38	-0.72/-2.78	-2.48/0.53	-0.17/1.61	2.54/2.95	3.55/4.08	3.94/3.15	4.44/3.35	2.96/3.26	-0.25/-1.65
Θ(75°)	-4.13/-7.60	-4.71/-5.30	-3.30/-2.25	-8.40/-5.43	-0.80/0.55	-4.51/-1.59	-4.80/-0.90	-0.34/-0.08	-1.44/-1.02	-0.15/-4.22	-1.93/0.54	2.01/-1.06	-4.01/-1.84	-10.23/-10.42	-5.81/-0.95	-0.48/-2.22	-1.51/0.49	-0.71/-0.08	1.85/2.77	3.34/4.73	4.12/1.98	3.48/3.74	2.72/2.91	0.07/-1.40
Θ(82.5°)	-5.00/-5.96	-4.30/-7.80	-3.09/-2.42	-8.23/-5.29	-0.56/0.09	-6.07/-2.86	-4.96/-1.16	-1.02/-0.43	0.73/-0.89	1.10/-1.63	0.90/1.90	1.71/-1.51	-2.80/-0.16	-8.01/-7.45	-7.12/0.25	0.39/-0.56	-2.13/0.30	-1.02/-1.10	1.58/3.12	3.55/4.58	2.92/0.56	1.82/3.18	2.61/1.12	0.15/-1.82
Θ(90°)	-6.32/-5.87	-4.82/-9.47	-3.53/-2.96	-7.00/-7.68	-1.35/-1.28	-4.75/-3.51	-4.04/-1.68	-1.24/-3.04	0.32/-2.46	-0.49/-1.37	0.03/-0.09	-0.91/-1.99	-3.05/-0.88	-6.48/-6.03	-6.10/-1.15	0.39/-1.00	-5.67/-0.58	-2.18/-4.95	-0.98/1.22	1.78/2.73	0.31/-0.95	-0.91/1.92	1.75/-0.06	0.15/-3.22
Θ(97.5°)	-7.58/-6.52	-7.01/-8.56	-5.55/-3.52	-5.95/-10.48	-3.17/-2.80	-4.73/-3.62	-6.25/-3.81	-2.10/-3.39	-1.84/-4.67	-2.89/-2.61	-2.79/-4.40	-1.88/-4.89	-3.16/-2.12	-7.08/-8.47	-6.70/-2.44	-1.92/-6.63	-7.77/-3.60	-3.34/-11.07	-4.90/-2.86	-0.45/-1.34	-2.65/-2.29	-0.96/0.34	0.45/-1.39	-1.22/-3.72
Θ(105°)	-7.58/-8.70	-5.34/-8.18	-6.51/-4.49	-6.71/-11.09	-5.50/-5.89	-3.21/-4.22	-6.34/-7.26	-6.04/-5.77	-5.69/-4.52	-2.73/-8.22	-2.32/-4.83	-2.96/-5.26	-3.88/-3.08	-9.94/-10.59	-10.25/-5.64	-4.20/-7.74	-7.49/-6.44	-5.06/-10.08	-4.25/-4.59	-1.98/-2.54	-3.01/-4.13	-3.03/-2.19	-1.19/-1.43	-2.73/-5.15
Θ(112.5°)	-7.32/-7.41	-6.08/-5.90	-9.61/-7.76	-7.50/-12.20	-9.83/-11.49	-6.30/-4.77	-5.51/-5.93	-11.25/-9.48	-5.54/-3.07	-4.39/-8.66	-5.51/-6.35	-4.11/-8.81	-4.41/-4.67	-7.18/-11.55	-7.09/-4.08	-3.00/-5.93	-6.42/-2.65	-7.62/-7.43	-5.49/-3.55	-2.91/-3.10	-6.46/-8.61	-5.18/-3.05	-2.37/-1.52	-5.44/-7.09
Θ(120°)	-8.06/-7.15	-12.24/-6.53	-9.80/-10.74	-8.06/-8.59	-11.10/-15.47	-12.46/-15.16	-11.96/-8.47	-7.14/-8.07	-6.49/-10.54	-8.69/-10.02	-13.01/-7.87	-12.09/-12.13	-7.11/-9.03	-6.23/-15.01	-7.36/-6.24	-3.95/-9.20	-5.60/-1.13	-14.72/-12.14	-13.90/-4.52	-7.08/-7.87	-5.89/-9.49	-7.46/-3.82	-2.89/-4.33	-5.87/-7.62
Θ(127.5°)	-12.09/-11.00	-7.94/-7.80	-9.50/-8.77	-8.61/-9.60	-9.39/-11.95	-9.42/-13.52	-15.42/-8.51	-11.51/-14.71	-11.65/-4.32	-8.43/-12.05	-12.20/-7.82	-8.88/-13.27	-9.11/-7.41	-9.94/-11.19	-6.53/-3.88	-7.94/-9.53	-4.54/-1.00	-11.15/-8.06	-11.25/-7.22	-6.86/-4.54	-8.14/-12.26	-4.01/-3.99	-4.42/-6.84	-9.25/-10.57
Θ(135°)	-7.72/-10.89	-7.35/-6.89	-7.13/-6.10	-10.31/-7.33	-10.71/-10.87	-13.42/-7.75	-9.16/-11.45	-11.10/-14.32	-15.20/-6.68	-6.73/-14.10	-10.62/-10.02	-11.00/-8.40	-12.07/-7.14	-6.40/-10.39	-12.52/-6.42	-7.44/-15.39	-3.67/-2.48	-12.41/-11.16	-7.57/-9.43	-8.20/-5.60	-8.05/-11.86	-5.04/-3.60	-4.34/-7.47	-7.79/-7.25
Θ(142.5°)	-7.76/-10.53	-11.84/-7.21	-8.77/-12.32	-8.53/-7.27	-12.78/-11.56	-14.86/-15.39	-14.70/-12.29	-9.45/-14.57	-11.86/-9.16	-8.86/-10.82	-10.39/-8.22	-8.04/-12.42	-9.69/-5.73	-9.27/-14.52	-10.80/-8.23	-14.05/-11.58	-4.23/-5.68	-9.07/-14.48	-11.95/-15.02	-12.61/-14.24	-12.27/-13.50	-6.80/-4.77	-7.29/-11.21	-9.73/-7.14
Θ(150°)	-15.84/-15.25	-15.28/-12.42	-9.31/-10.83	-13.68/-15.06	-12.14/-15.86	-14.38/-10.37	-14.71/-14.08	-11.12/-10.52	-12.80/-12.10	-9.91/-12.56	-11.84/-8.71	-12.20/-13.90	-10.98/-15.76	-8.52/-11.73	-12.53/-11.49	-15.99/-12.39	-7.61/-10.21	-13.76/-11.39	-10.34/-14.93	-13.60/-13.03	-13.28/-9.06	-9.97/-11.19	-12.88/-15.20	-12.27/-11.52
Θ(157.5°)	-15.60/-16.12	-15.60/-15.12	-11.99/-9.37	-10.79/-14.19	-12.32/-10.75	-12.30/-10.08	-12.60/-12.82	-15.32/-16.17	-14.47/-13.95	-11.72/-12.61	-12.40/-11.68	-12.61/-12.20	-10.90/-9.09	-7.54/-9.93	-8.79/-8.83	-9.70/-10.40	-9.77/-10.29	-11.86/-15.37	-13.82/-11.95	-12.54/-13.74	-15.20/-13.28	-11.31/-11.90	-12.81/-11.82	-12.48/-14.37
Θ(165°)	-15.28/-16.11	-15.34/-15.59	-15.44/-14.64	-11.96/-11.46	-11.81/-12.71	-12.53/-11.06	-10.44/-13.29	-14.33/-11.20	-10.56/-12.19	-14.54/-14.60	-12.26/-11.15	-12.15/-13.43	-13.22/-9.00	-7.04/-6.72	-6.95/-7.82	-10.02/-14.00	-15.62/-15.09	-13.70/-10.85	-10.74/-11.56	-13.81/-15.33	-14.04/-13.12	-12.05/-11.78	-13.23/-15.32	-15.07/-15.75
Θ(172.5°)	-11.57/-11.82	-12.92/-15.20	-14.41/-14.68	-14.19/-14.82	-14.93/-14.89	-12.43/-9.69	-10.16/-10.89	-11.46/-12.81	-14.10/-13.91	-14.49/-15.04	-15.15/-14.92	-15.18/-15.89	-13.65/-13.55	-13.28/-12.58	-12.58/-13.85	-14.72/-13.51	-10.92/-10.62	-11.10/-11.73	-13.29/-15.09	-15.32/-15.10	-14.43/-12.77	-12.89/-11.56	-11.42/-11.72	-9.80/-9.83
Θ(180°)	-13.39/-13.02	-14.78/-14.20	-13.98/-13.59	-14.75/-12.42	-11.21/-11.28	-13.40/-14.44	-14.84/-14.96	-15.28/-15.85	-15.65/-16.04	-15.12/-15.19	-15.69/-15.47	-15.18/-15.69	-15.30/-14.97	-15.69/-15.55	-15.86/-15.02	-15.38/-14.73	-15.13/-14.66	-12.86/-12.51	-13.52/-13.26	-14.24/-13.45	-13.75/-11.72	-12.45/-11.20	-10.57/-11.18	-13.39/-12.89

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



Total Gain Data

Avg(Hz)	±0.5GPol.	Total/Ant.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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°)	-2.13-2.28	-2.37-2.22	-1.89-1.59	-1.37-1.33	-1.39-1.57	-1.68-1.66	-1.56-1.56	-1.59-1.69	-1.81-1.72	-1.48-1.34	-1.36-1.40	-1.42-1.51	-1.74-2.22	-2.82-3.02	-2.34-1.40	-0.67-0.44	-0.62-1.11	-1.75-2.19	-2.28-2.10	-1.72-1.43	-1.36-1.46	-1.57-1.73	-1.90-1.99	-2.01-2.03
Θ(7.5°)	-1.53-1.74	-1.86-1.71	-1.43-1.07	-0.81-0.71	-0.71-1.08	-0.87-0.84	-0.92-1.13	-1.37-1.56	-1.70-1.59	-1.45-1.51	-1.65-1.83	-2.10-2.45	-2.88-3.46	-4.09-4.42	-4.03-3.19	-2.30-1.67	-1.48-1.65	-2.15-2.60	-2.80-2.62	-2.15-1.65	-1.31-1.06	-0.94-0.99	-1.16-1.30	-1.34-1.37
Θ(15°)	-1.20-1.71	-2.01-1.95	-1.74-1.50	-1.33-1.24	-1.16-1.08	-0.83-0.56	-0.54-0.79	-1.07-1.20	-1.16-0.90	-0.67-0.65	-0.70-0.93	-1.35-2.06	-2.87-3.78	-4.66-5.31	-5.44-4.88	-3.80-2.72	-1.83-1.36	-1.35-1.69	-2.04-2.09	-1.68-1.09	-0.50-0.03	0.25-0.23	0.02-0.25	-0.44-0.72
Θ(22.5°)	-1.80-2.46	-2.65-2.50	-2.27-1.98	-1.71-1.42	-1.19-1.09	-0.86-0.71	-0.62-0.85	-1.13-1.14	-0.80-0.34	-0.10-0.18	0.29-0.16	-0.20-0.82	-1.67-2.67	-3.62-4.35	-4.48-3.87	-2.74-1.50	-0.40-0.26	0.33-0.10	-0.65-1.06	-0.93-0.41	-0.32-0.31	1.31-0.25	0.88-0.38	-0.21-0.95
Θ(30°)	-2.73-2.90	-2.71-2.62	-2.48-2.06	-1.41-1.08	-0.45-0.49	-0.66-0.95	-1.06-1.05	-1.02-0.97	-0.78-0.39	-0.00-0.38	0.70-0.91	0.88-0.61	0.18-0.54	-1.46-1.22	-2.36-1.12	-1.32-0.23	0.78-1.35	1.37-0.98	0.43-0.03	-0.25-0.02	0.70-1.55	1.93-1.77	1.21-0.34	-0.75-1.95
Θ(37.5°)	-1.80-1.53	-1.62-1.96	-2.28-1.90	-0.82-0.24	-0.70-1.60	0.10-0.60	-0.00-0.79	-1.38-1.32	-0.87-0.59	-1.00-0.92	-1.00-0.76	-0.18-0.38	0.88-1.33	1.40-0.97	0.34-0.22	-0.67-0.95	-0.67-0.01	0.84-1.28	1.24-0.98	0.81-0.65	0.45-0.44	0.90-1.51	1.75-1.44	-1.71-2.04
Θ(45°)	0.95-0.78	-0.24-1.66	-2.83-2.21	-0.32-1.15	1.75-1.52	0.86-0.18	-0.29-0.43	-0.16-0.26	0.24-0.58	-1.86-2.87	-2.71-1.69	-2.61-0.08	1.85-1.93	1.48-0.83	0.24-0.23	-0.51-0.55	-0.17-0.28	0.60-0.02	1.59-1.78	1.37-0.72	0.46-0.84	1.23-0.09	0.32-0.43	-0.27-0.51
Θ(52.5°)	2.86-1.23	0.32-2.31	-4.43-2.67	0.07-1.57	1.90-1.42	0.83-0.74	1.04-1.31	1.29-1.32	1.44-0.85	-0.70-2.76	-3.77-2.76	-0.89-0.91	1.85-1.94	1.36-0.73	0.44-0.28	-0.19-0.90	-0.97-0.20	0.88-1.88	2.50-2.42	1.55-0.19	-0.31-0.72	1.80-0.12	1.94-1.89	2.32-0.83
Θ(60°)	3.43-0.67	0.88-1.73	-3.79-2.51	-0.17-1.03	1.16-0.73	0.60-1.18	1.97-0.62	2.72-2.47	2.31-1.86	0.61-1.13	-1.96-1.49	-0.37-1.07	2.00-2.06	1.33-0.52	0.39-0.35	-0.81-0.12	1.01-1.90	2.32-2.05	0.97-0.46	-0.27-1.60	3.00-3.39	3.20-3.10	3.73-0.56	
Θ(67.5°)	3.26-0.72	1.62-0.07	-1.86-2.19	-1.09-0.23	-0.21-0.45	-0.05-0.00	1.99-0.72	3.12-0.23	0.36-0.35	0.91-0.78	-1.34-0.52	0.62-1.75	2.28-1.98	1.03-0.58	0.11-0.86	0.98-0.27	-0.51-0.43	0.05-0.68	1.17-1.06	0.24-0.62	0.42-0.53	3.78-0.92	3.42-0.58	3.23-0.37
Θ(75°)	2.63-2.49	1.87-0.87	-0.30-1.13	-2.04-2.11	-2.06-2.21	-1.23-0.52	1.72-2.44	2.54-2.77	3.04-2.77	1.82-0.42	-0.61-0.49	0.18-0.16	1.73-1.89	1.15-0.10	0.02-0.88	1.00-0.22	-0.91-1.44	-1.67-1.14	-2.04-2.00	-0.30-0.14	0.03-0.36	3.75-0.86	3.31-2.75	2.47-2.52
Θ(82.5°)	2.08-2.50	2.06-1.01	0.07-0.52	-2.16-2.24	-2.26-2.98	-2.38-0.33	1.56-2.73	2.62-2.21	2.07-1.64	0.94-0.30	0.06-0.25	0.30-0.50	1.05-1.27	0.82-0.23	0.30-0.74	0.85-0.02	-1.26-1.94	-2.23-1.76	-0.84-0.42	-1.25-2.45	-0.95-0.00	3.52-0.63	3.02-2.30	1.69-1.57
Θ(90°)	1.41-2.59	2.17-0.21	-0.62-1.79	-1.73-0.84	-0.33-1.49	-0.19-1.36	0.06-1.89	2.60-2.43	1.82-0.84	-0.14-0.55	-0.43-0.09	0.15-0.29	-0.37-0.00	0.37-0.05	-0.21-0.30	0.98-0.32	-0.87-1.80	-2.67-2.68	-1.69-1.37	-2.67-3.64	-0.86-1.99	3.21-1.96	2.30-1.60	0.66-0.35
Θ(97.5°)	-0.60-1.51	1.35-1.27	-3.39-3.07	-1.51-0.26	0.47-0.88	-0.64-0.25	-0.39-0.31	1.26-1.67	1.23-0.18	-0.77-1.08	-1.10-0.46	-0.26-0.58	-0.87-0.45	-0.15-0.57	-0.68-0.26	0.82-0.07	-1.37-2.53	-2.84-1.66	-0.63-1.50	-4.55-0.52	-1.05-1.52	2.37-2.31	1.80-0.49	-1.73-2.60
Θ(105°)	-2.17-2.07	0.25-2.63	-3.64-3.42	-2.66-0.13	0.44-1.09	-0.92-0.01	-0.47-0.92	-0.07-0.68	0.14-0.41	-0.68-0.84	-1.48-1.65	-0.96-0.15	0.50-0.00	0.65-0.35	0.26-0.55	-0.18-1.49	-2.78-2.31	-1.55-0.85	-0.98-3.29	-6.34-4.39	-1.07-0.88	1.55-1.73	1.27-0.47	-3.06-1.41
Θ(112.5°)	-3.49-2.00	-2.65-0.69	-4.14-3.38	-5.43-2.98	-1.69-2.99	-2.75-1.46	-1.96-2.90	-1.26-0.29	0.08-1.49	-1.41-0.94	-0.98-0.62	0.32-0.89	0.15-0.42	0.05-0.50	-0.28-0.55	-0.70-1.49	-3.60-5.20	-3.04-1.43	-1.31-1.71	-2.67-4.44	-5.16-4.41	-2.74-1.60	-1.07-0.37	-0.27-2.00
Θ(120°)	-1.96-2.57	-4.62-0.92	-6.90-5.40	-8.30-6.05	-4.33-5.62	-4.57-2.46	-2.91-5.59	-4.61-0.97	0.12-1.15	-2.44-2.94	-3.18-2.21	-0.15-1.11	0.75-0.43	-1.31-1.24	-1.25-2.64	-4.90-1.97	-2.83-1.90	-1.71-1.14	-1.06-2.67	-5.95-1.69	-5.82-3.89	-2.50-0.96	-0.15-0.94	-2.29-1.12
Θ(127.5°)	-1.77-2.64	-4.11-6.19	-7.32-7.79	-10.54-8.27	-6.39-8.04	-6.35-3.20	-2.72-4.64	-7.17-4.73	-2.49-2.51	-2.98-3.50	-4.27-2.48	-2.59-1.30	-1.51-2.31	-2.53-2.24	-2.86-4.73	-6.69-5.63	-3.17-1.80	-0.90-0.37	-1.23-4.72	-10.82-8.28	-4.13-2.25	-1.39-0.52	0.10-0.31	-1.37-1.72
Θ(135°)	-3.53-3.53	-3.51-3.81	-5.28-7.67	-11.42-12.50	-11.91-12.25	-11.05-6.65	-4.45-4.18	-4.35-4.81	-5.58-6.28	-6.12-5.13	-4.15-2.94	-1.66-0.93	-1.29-2.38	-3.51-4.48	-5.76-6.36	-4.43-3.27	-1.61-0.93	-1.03-1.57	-3.44-7.51	-11.15-7.57	-4.44-3.11	-1.49-1.65	-2.65-3.43	
Θ(142.5°)	-5.45-0.05	-3.20-3.24	-4.46-6.94	-10.13-11.07	-10.72-10.98	-11.55-9.57	-7.31-5.60	-4.06-3.27	-3.78-5.25	-6.24-5.74	-4.92-4.02	-3.07-2.51	-2.84-3.33	-4.84-5.43	-5.07-6.06	-3.04-2.10	-1.95-2.82	-4.30-5.61	-6.87-7.72	-7.43-6.34	-5.65-5.97	-6.81-7.08	-6.73-6.69	-7.05-6.62
Θ(150°)	-4.06-2.92	-2.60-3.07	-4.40-6.24	-7.52-7.37	-6.92-7.48	-8.52-0.96	-0.08-4.82	-6.64-4.77	-3.72-3.44	-3.10-2.63	-2.45-2.95	-4.28-6.25	-8.83-11.36	-11.35-9.37	-7.65-6.17	-6.12-5.79	-6.15-1.74	-7.80-7.29	-5.97-4.86	-4.88-4.97	-6.57-9.88	-15.61-15.01	-14.57-11.49	-8.53-5.88
Θ(157.5°)	-4.92-4.09	-4.36-5.59	-7.54-9.01	-8.44-6.91	-5.66-5.36	-8.88-6.76	-7.85-8.76	-8.91-7.45	-9.43-7.07	-1.72-0.93	-0.59-0.74	-1.23-2.07	-3.34-5.21	-7.16-8.44	-8.80-8.46	-6.82-7.27	-6.85-6.28	-5.48-4.78	-4.36-4.18	-4.45-5.23	-6.68-8.27	-4.99-10.11	-10.36-10.08	-8.78-6.78
Θ(165°)	-12.13-11.52	-12.05-12.82	-11.69-9.25	-6.95-5.48	-4.63-4.37	-4.53-4.80	-5.36-5.98	-6.48-6.61	-5.36-3.95	-2.72-1.85	-1.39-1.27	-1.18-1.20	-1.52-2.26	-3.38-3.35	-5.20-5.76	-5.91-6.09	-6.19-6.16	-6.04-6.38	-7.20-8.28	-8.93-9.96	-11.49-11.43	-10.83-10.75	-12.04-11.21	-14.31-13.78
Θ(172.5°)	-11.26-11.50	-11.26-10.30	-8.60-7.45	-5.83-5.13	-4.87-4.79	-4.90-5.09	-5.23-5.35	-5.49-5.36	-4.88-4.52	-4.21-3.33	-3.79-3.88	-3.89-3.87	-4.06-4.59	-5.41-6.19	-6.67-7.22	-8.00-8.80	-9.56-10.31	-11.36-13.19	-15.92-15.97	-14.94-13.44	-12.35-11.13	-10.74-10.97	-11.49-11.71	-11.53-11.40
Θ(180°)	-8.07-8.01	-7.98-10.33	-8.67-8.44	-8.01-7.46	-7.12-7.17	-7.44-7.77	-8.04-8.20	-8.07-1.00	-6.00-5.59	-5.62-6.18	-6.50-6.84	-7.11-7.38	-7.67-7.97	-8.21-8.40	-8.72-9.50	-11.02-12.92	-14.34-14.25	-13.10-11.87	-10.30-10.31	-9.47-8.54	-7.55-6.79	-7.89-6.34	-8.35-8.22	
Freq(Hz)	±0.5GPol.	Total/Ant.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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°)	0.59-0.44	0.61-0.66	0.82-0.65	0.57-0.31	0.42-0.77	1.00-0.94	0.82-0.83	0.71-0.46	0.56-0.62	0.62-0.56	0.74-0.78	0.81-0.91	0.81-0.75	1.09-1.25	1.03-0.98	1.20-1.22	1.07-1.07	1.13-0.79	0.54-0.40	0.43-0.69	0.58-0.31	-0.08-0.12	0.38-0.66	0.53-0.48
Θ(7.5°)	2.13-2.25	2.07-2.36	2.20-2.32	1.94-1.74	1.63-1.59	1.53-1.25	0.78-0.42	0.24-0.26	-0.29-0.27	-0.11-0.20	-0.08-0.12	0.19-0.27	0.22-0.26	-0.27-0.15	0.28-0.05	-0.01-0.39	0.55-0.45	0.50-0.47	0.75-0.72	0.73-0.78	0.60-0.45	0.49-0.76	1.16-1.34	1.50-1.78
Θ(15°)	2.56-2.83	2.61-2.02	1.90-1.81	1.73-1.12	0.51-0.39	0.42-0.20	-0.42-0.88	-1.56-2.94	-0.07-2.48	-1.27-1.04	-0.14-0.04	-0.12-0.66	-1.15-1.35	-1.17-0.79	-0.89-0.99	-0.77-0.16	0.26-0.52	0.81-0.95	1.28-0.93	0.81-0.69	0.61-0.41	0.59-0.87	1.26-1.76	1.98-2.27
Θ(22.5°)	2.70-2.83	2.97-2.61	2.32-1.63	1.13-0.91	0.29-0.43	-1.31-1.36	-1.84-2.13	-3.15-5.84	-7.96-5.95	-2.75-1.13	-0.39-0.06	-0.60-1.37	-1.53-0.82	0.10-0.47	0.60-0.58	0.65-0.60	0.60-0.91	1.70-2.25	2.27-1.86	1.75-1.78	1.95-1.93	1.61-1.42	1.34-1.76	1.96-2.29
Θ(30°)	3.11-0.61	3.26-2.48	2.75-1.73	0.80-0.79	1.19-1.08	0.47-0.58	-1.58-2.36	-2.75-2.44	-6.07-0.85	-8.09-6.40	-4.69-2.94	-2.04-1.57	-0.99-0.34	0.07-0.43	0.88-1.69	2.45-2.92	2.63-2.36	2.14-2.34	2.32-0.23	2.73-1.41	1.74-1.98	2.93-2.31	1.44-1.15	1.65-0.41
Θ(37.5°)	1.76-2.33	3.62-1.38	1.97-1.95	1.90-1.54	0.51-0.01	-0.38-1.65	-2.45-3.00	-4.23-5.11	-5.49-6.69	-9.35-8.30	-5.79-3.06	-1.00-0.25	0.40-0.14	0.21-0.52	1.50-2.34	2.38-2.02	2.08-1.80	1.86-2.16	1.12-0.71	0.54-1.18	2.62-2.16	2.00-1.76	1.04-0.07	-0.05-0.96
Θ(45°)	0.93-1.63	2.28-1.47	1.21-2.08	2.76-2.33	1.01-0.14	0.03-2.01	4.31-5.12	-5.65-5.72	-6.69-8.36	-7.59-4.28	-4.17-3.99	-1.61-0.20	0.11											



Antenna Pattern of 2.4GHz/5GHz

Appendix F

Θ(22.5°)	3.00/3.26	3.45/2.27	3.03/0.31	2.90/2.57	2.66/2.66	2.26/1.29	0.50/-0.23	-0.28/-0.37	-0.79/-0.76	-0.99/-1.92	-3.31/-2.70	-1.20/-0.71	-0.84/-1.04	-1.69/-1.67	-0.59/0.63	1.79/2.86	3.62/3.63	2.77/1.79	2.19/3.13	3.23/2.51	1.97/2.13	2.34/2.57	2.18/2.12	2.84/2.99
Θ(30°)	1.29/2.38	3.23/3.82	4.23/4.39	3.58/2.23	1.27/0.79	0.37/0.25	-0.11/-0.88	-1.35/-2.92	-3.76/-3.15	-2.35/-2.69	-2.88/-1.27	-0.63/-1.52	-1.46/-1.03	1.07/1.71	2.03/2.47	2.70/2.94	4.05/4.50	4.04/0.41	4.36/4.15	3.51/2.03	0.13/1.25	3.62/4.25	3.21/2.03	1.04/0.93
Θ(142.5°)	0.28/1.16	1.57/1.97	2.84/3.36	3.44/3.07	2.44/1.87	1.54/1.23	0.55/-0.58	-0.86/-2.16	-2.99/-3.20	-1.34/-2.64	-3.80/-1.18	-1.04/-1.04	-0.15/0.51	1.03/2.10	2.82/9.90	2.20/2.23	3.48/3.74	2.14/2.27	4.33/4.32	2.49/2.39	2.12/2.44	1.40/0.87	0.47/0.51	
Θ(45°)	-0.63/0.42	2.30/3.72	4.22/3.31	2.82/3.17	2.56/0.79	-0.72/-1.42	-1.05/-1.98	-4.34/-4.53	-2.31/-1.77	-3.50/-4.83	-4.11/-0.75	-0.10/0.33	1.00/1.81	1.78/1.93	2.19/2.28	2.25/1.77	2.01/3.40	2.62/0.13	1.67/3.55	1.96/1.05	1.46/-0.63	-0.75/0.08	1.19/2.43	2.47/1.04
Θ(52.5°)	-3.39/-0.09	2.34/3.54	4.15/3.24	3.24/3.91	3.00/0.80	-0.63/-3.13	-3.10/-1.90	-6.25/-4.98	-2.95/-3.15	-3.79/-4.18	-4.75/-1.64	-0.27/0.25	1.13/1.68	1.30/1.73	1.68/2.03	2.69/1.93	1.10/1.76	2.78/1.06	1.21/2.27	1.26/1.68	0.15/-2.66	-2.06/-1.46	-1.34/0.07	0.56/-2.05
Θ(60°)	-1.92/0.37	0.93/1.34	1.38/0.33	0.37/0.78	0.47/-0.65	-1.99/-2.60	-0.97/-0.65	-8.96/-6.02	-5.43/-3.74	-2.21/-2.53	-6.36/-2.06	-0.85/1.23	1.92/1.13	1.84/3.15	3.15/2.50	2.70/2.92	2.08/0.99	2.46/0.95	2.01/1.68	1.71/3.21	-1.50/-2.52	-0.22/-1.31	-4.47/-7.69	-3.17/-6.12
Θ(67.5°)	-0.76/0.18	0.65/0.46	0.49/1.13	1.23/0.59	1.61/0.81	-2.09/-4.14	-10.94/9.50	-9.99/9.31	-8.50/-5.85	-2.33/-4.77	-2.32/-1.79	-1.45/1.55	1.19/-0.12	2.09/3.20	3.12/2.27	1.39/2.14	2.10/0.34	2.73/0.88	1.60/0.49	1.30/3.53	-2.86/-0.70	-0.09/-4.29	-10.67/-11.88	-4.22/-5.39
Θ(75°)	-2.42/-1.83	-0.60/-0.58	0.71/1.57	1.61/0.78	2.94/1.33	-2.27/-2.51	-5.92/-5.19	-7.99/-0.90	-7.99/-10.46	-3.30/-5.95	-2.08/-1.11	-2.83/-0.02	0.25/-0.45	1.79/1.98	2.28/1.53	0.22/-0.66	1.58/0.45	2.60/1.39	0.86/0.25	-0.66/2.73	-1.64/-0.61	-0.42/-6.50	-10.07/-7.70	-3.42/-2.65
Θ(82.5°)	-6.42/-4.77	-1.44/-2.07	-0.34/-0.36	0.66/1.00	3.19/0.55	-3.69/-2.67	-5.11/-2.78	-6.11/-7.40	-7.46/-11.80	-5.10/-9.21	-1.47/-3.89	-2.49/-0.99	-1.62/0.21	0.03/0.77	1.35/-0.32	-1.51/-1.04	0.44/-0.02	1.56/0.58	0.08/-1.21	-1.99/0.90	-2.08/-0.76	-1.57/-6.16	-6.06/-5.31	-4.30/-7.59
Θ(90°)	-11.46/-9.27	-4.04/-3.33	-1.59/-3.12	-1.26/0.11	2.03/-1.57	-5.73/-2.40	-4.66/-2.19	-4.13/-7.25	-5.62/-10.74	-7.95/-11.00	-2.03/-2.62	-3.08/-2.52	-2.76/-0.67	-0.20/-0.29	1.33/-1.92	-1.91/-2.19	-0.59/-1.12	-0.59/0.03	-2.30/-1.78	-4.92/-3.51	-4.24/-2.46	-3.57/-7.09	-6.21/-7.15	-5.32/-6.73
Θ(97.5°)	-9.78/-15.53	-6.69/-7.71	-2.93/-6.14	-4.38/-1.37	-0.40/-4.28	-6.34/-3.52	-6.15/-2.79	-5.56/-6.51	-6.21/-8.66	-0.08/-12.74	-2.89/-4.03	-3.04/-3.71	-3.30/-0.06	-1.47/-1.02	0.40/-2.52	-2.51/-3.18	-2.64/-3.30	-2.56/-2.74	-7.44/-5.76	-6.33/-7.53	-10.41/-6.67	-8.59/-7.26	-8.67/-10.10	-7.69/-5.26
Θ(105°)	-11.27/-14.21	-14.70/-14.38	-6.33/-7.02	-6.33/-3.37	-4.96/-7.30	-6.42/-4.18	-8.66/-5.26	-8.62/-7.40	-8.30/-9.51	-9.82/9.06	-5.57/-3.48	-3.11/-3.65	-4.11/-2.42	-1.52/-2.64	-0.50/-2.03	-2.12/-2.67	-2.90/-4.96	-3.50/-3.58	-7.21/-7.06	-6.30/-6.50	-11.01/-10.19	-7.43/-12.29	-11.48/-8.71	-8.26/-6.26
Θ(112.5°)	-9.03/-12.89	-11.95/-14.63	-9.18/-5.92	-6.31/-6.32	-8.05/-8.01	-6.52/-6.72	-10.11/-7.55	-12.29/-9.55	-9.64/-10.08	-9.18/-11.20	-7.86/-5.37	-4.31/-5.25	-5.13/-4.92	-4.20/-3.53	-1.07/-1.47	-3.45/-5.47	-4.15/-3.91	-2.26/-5.96	-9.01/-7.35	-10.04/-9.16	-12.64/-11.65	-5.87/-10.62	-11.02/-10.98	-14.00/-7.23
Θ(120°)	-11.88/-7.25	-11.44/-13.40	-11.57/-6.75	-6.17/-8.62	-11.14/-10.33	-8.72/-9.72	-7.23/-9.88	-15.07/-13.11	-13.11/-15.37	-9.14/-9.11	-6.66/-6.65	-8.54/-7.24	-4.36/-6.84	-4.46/-4.21	-4.24/-1.65	-3.60/-8.51	-6.43/-4.97	-2.49/-5.71	-8.78/-10.13	-13.89/-12.06	-13.02/-12.45	-6.34/-15.27	-12.26/-13.94	-11.96/-13.30
Θ(127.5°)	-15.43/-14.81	-14.29/13.18	-15.04/-7.84	-5.94/-8.71	-12.88/-12.15	-15.47/-16.03	-10.96/-14.07	-11.22/-15.40	-12.00/-15.05	-9.80/-10.26	-5.43/-8.77	-9.96/-8.21	-11.01/-5.42	-5.32/-6.63	-3.32/-0.65	-2.51/-9.95	-8.99/-6.36	-3.77/-3.58	-6.68/-9.51	-9.27/-6.77	-14.47/-12.46	-5.83/-7.06	-14.98/-14.43	-12.52/-14.46
Θ(135°)	-9.75/-8.66	-15.16/-11.37	-7.95/-9.13	-8.61/-9.52	-12.90/-9.92	-14.81/-10.65	-10.85/-12.37	-10.34/-15.25	-11.50/-16.25	-15.45/-9.85	-8.07/-6.87	-5.99/-7.84	-8.83/-5.59	-5.56/-6.08	-3.00/-2.01	-3.91/-7.30	-5.38/-3.51	-3.52/-3.06	-5.89/-8.18	-6.89/-5.22	-7.37/-8.81	-6.78/-7.72	-6.56/-9.56	-9.17/-9.55
Θ(142.5°)	-7.52/-6.24	-9.91/-12.44	-13.21/-14.36	-13.89/-15.11	-15.31/-14.73	-12.81/-8.36	-11.14/-12.01	-10.31/-15.89	-15.24/-16.27	-14.91/-12.74	-12.17/-10.71	-10.70/-9.64	-6.25/-7.09	-9.52/-7.31	-5.87/-9.33	-9.71/-9.80	-6.29/-5.28	-4.71/-6.67	-6.84/-6.30	-8.77/-10.33	-9.35/-9.98	-10.69/-11.39	-12.35/-7.76	-9.19/-8.70
Θ(150°)	-10.96/-13.81	-14.93/-15.41	-11.94/-10.89	-12.80/-13.32	-15.01/-13.50	-12.77/-12.50	-13.89/-12.01	-15.67/-15.03	-15.01/-12.05	-11.89/-14.21	-13.44/-14.77	-15.35/-13.93	-9.32/-9.35	-13.08/-13.99	-9.43/-6.80	-7.22/-8.09	-8.01/-8.35	-7.09/-8.43	-12.17/-15.10	-13.60/-12.42	-10.90/-9.84	-11.45/-12.24	-8.96/-7.24	-10.30/-9.41
Θ(157.5°)	-12.57/-12.65	-14.87/-14.76	-12.93/-13.33	-13.69/-12.63	-13.40/-14.38	-15.97/-15.37	-13.84/-12.04	-11.88/-13.17	-14.37/-10.93	-9.15/-9.80	-11.20/-11.77	-11.32/-10.83	-9.49/-8.67	-6.84/-6.06	-5.61/-5.51	-5.51/-6.14	-6.54/-7.26	-8.59/-8.07	-8.09/-9.80	-9.99/-9.76	-11.83/-12.54	-11.51/-11.92	-10.87/-8.23	-7.57/-10.32
Θ(165°)	-11.44/-13.68	-14.73/-14.33	-15.04/-15.07	-14.30/-13.87	-11.81/-11.94	-14.36/-12.05	-10.02/-9.95	-11.50/-13.73	-12.50/-10.00	-9.35/-10.48	-12.15/-12.92	-12.37/-12.93	-13.97/-13.79	-14.07/-12.74	-10.80/-9.56	-9.19/-8.42	-7.69/-7.05	-6.44/-7.21	-10.29/-11.52	-10.29/-10.76	-10.47/-9.60	-10.39/-13.42	-15.74/-15.73	-11.46/-10.52
Θ(172.5°)	-15.77/-14.61	-15.61/-15.54	-15.82/-14.98	-15.63/-15.69	-16.10/-14.50	-13.42/-12.99	-12.52/-11.85	-12.50/-12.69	-11.59/-11.50	-12.15/-12.99	-13.55/-12.19	-10.73/-9.84	-9.10/-8.51	-7.96/-7.95	-8.34/-8.15	-7.30/-7.42	-7.28/-6.68	-7.31/-8.99	-10.89/-11.39	-11.42/-10.73	-9.88/-9.72	-10.16/-10.35	-10.99/-10.78	-10.67/-12.85
Θ(180°)	-12.92/-11.31	-11.03/-11.04	-11.69/-11.94	-11.95/-12.23	-12.74/-13.86	-14.60/-14.79	-14.61/-14.00	-13.37/-13.18	-12.66/-12.83	-13.18/-13.35	-13.48/-13.55	-14.29/-14.34	-14.01/-14.33	-13.31/-12.43	-11.94/-11.68	-11.58/-12.22	-10.99/-11.24	-11.81/-12.26	-12.99/-13.74	-13.77/-14.37	-14.52/-15.54	-14.57/-12.08	-12.21/-13.76	-14.61/-15.55
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°)	0.14/0.12	-0.05/-0.44	-0.95/-1.27	-1.02/-0.28	0.47/0.80	0.58/0.08	-0.25/-0.27	-0.06/0.16	0.26/0.19	-0.02/-0.23	-0.32/-0.33	-0.25/-0.18	-0.09/-0.07	-0.14/-0.36	-0.60/-0.68	-0.48/-0.15	0.12/0.28	0.23/0.09	0.07/0.12	0.19/0.18	0.11/0.09	0.21/0.27	0.27/0.23	0.19/0.15
Θ(7.5°)	0.14/0.06	-0.05/-0.20	-0.42/-0.61	-0.59/-1.06	0.52/0.98	1.03/0.71	0.30/0.04	0.07/0.27	0.44/0.41	0.21/-0.00	-0.17/-0.27	-0.32/-0.36	-0.37/-0.43	-0.52/-0.72	-1.05/-1.27	-1.24/-0.91	-0.53/-0.29	-0.22/-0.30	-0.44/-0.49	-0.50/-0.52	-0.42/-0.29	-0.15/-0.07	0.01/0.11	0.19/0.17
Θ(15°)	-0.27/-0.30	-0.35/-0.43	-0.48/-0.52	-0.45/-0.16	0.35/0.91	1.20/1.11	0.66/0.17	-0.03/0.07	0.26/0.31	0.25/0.13	-0.06/0.30	-0.50/-0.65	-0.72/-0.79	-0.95/-1.06	-1.19/-1.24	-1.27/-1.24	-1.15/-0.96	-0.75/-0.61	-0.77/-1.13	-1.49/-1.66	-1.59/-1.37	-2.16/-1.19	-0.99/-0.72	-0.49/-0.35
Θ(22.5°)	-0.93/-0.62	-0.41/-0.33	-0.35/-0.38	-0.29/-0.01	0.51/1.11	1.48/1.43	0.95/0.25	-0.24/-0.22	0.05/0.31	0.57/0.69	0.54/0.11	-0.36/-0.64	-0.76/-0.99	-1.35/-1.65	-1.74/-1.62	-1.51/-1.56	-1.68/-1.55	-1.15/-0.69	-0.53/-0.79	-1.39/-1.97	-2.24/-2.21	-2.23/-2.26	-2.15/-1.86	-1.56/-1.25
Θ(30°)	-1.12/-0.48	0.02/0.17	0.08/0.15	-0.19/0.12	0.82/1.61	2.12/2.16	1.71/0.92	0.09/-0.21	-0.13/0.19	0.74/1.18	1.10/0.48	-0.28/-0.63	-0.60/-0.53	-0.70/-1.09	-1.55/-1.80	-1.83/-1.75	-1.70/-1.56	-1.28/-0.81	-0.31/-0.07	-0.31/-0.91	-1.49/-1.83	-2.03/-2.24	-2.27/-2.17	-1.59/-1.63
Θ(37.5°)	-0.38/0.43	0.95/1.08	0.76/0.21	-0.16/-0.01	0.78/1.88	2.74/3.11	2.89/2.17	1.27/0.66	0.26/0.26	0.88/1.48	1.39/0.56	0.02/0.19	0.59/0.80	0.73/0.41	-0.07/-0.51	-0.82/-1.00	-1.20/-1.33	-1.34/-1.14	-0.84/-0.17	-0.03/-0.33	-0.81/-1.21	-1.37/-1.45	-1.48/-1.54	-1.49/-1.07
Θ(45°)	0.54/1.42	1.83/1.71	1.17/0.45	-0.02/0.02	0.67/1.83	2.94/3.57	3.53/2.96	2.29/1.91	1.84/1.07	1.34/1.96	1.94/1.25	0.93/1.42	1.93/2.12	1.90/1.31	0.49/-0.03	-0.16/-0.06	-0.08/-0.29	-0.67/-1.05	-1.03/-0.72	-0.51/-0.51	-0.65/-0.80	-0.73/-0.57	-0.63/-0.95	-1.09/-0.46
Θ(52.5°)	0.63/1.70	2.04/1.83	1.29/0.87	0.62/0.56	0.74/1.44	2.43/3.13	3.24/2.81	2.49/2.66	2.74/2.43	2.31/2.53	2.24/1.29	1.24/2.00	2.57/2.72	2.43/1.58	0.20/-1.02	-1.30/-0.62	0.36/1.03	0.93/0.12	-0.36/-0.31	-0.45/-0.84	-0.99/-0.80	-0.24/0.30	0.20/-0.63	-1.40/-0.72
Θ(60°)	0.20/1.24	1.50/1.26	1.22/1.29	1.18/0.68	0.21/0.37	1.35/2.35	2.81/2.68	2.64/3.17	3.67/3.34	2.58/2.39	2.10/1.08	0.99/2.02	2.62/2.77	2.71/2.04	0.37/-2.20	-4.13/-3.75	-1.44/0.59	1.19/0.37	-0.37/0.09	0.32/-0.30	-1.05/-1.15	-0.20/0.83	0.96/0.04	-1.19/-1.06
Θ(67.5°)	-0.11/0.72	0.73/0.41	0.69/1.19	0.98/0.16	-0.60/-0.37	1.06/2.38	2.94/2.82	2.82/3.29	3.63/2.98	1.90/2.07	2.14/1.22	1.36/2.09	2.31/2.32	2.19/1.25	-0.81/-3.39	-5.42/-5.51	-3.01/-0.29	-0.76/-0.03	-1.22/-1.07	-0.59/-0.71	-1.00/-0.83	-0.04/0.84	0.84/-0.19	-1.12/-1.07
Θ(75°)	-0.91/-0.09	0.00/-0.34	0.10/0.81	0.75/-0.11	-1.02/-0.80	0.88/2.43	2.88/2																	

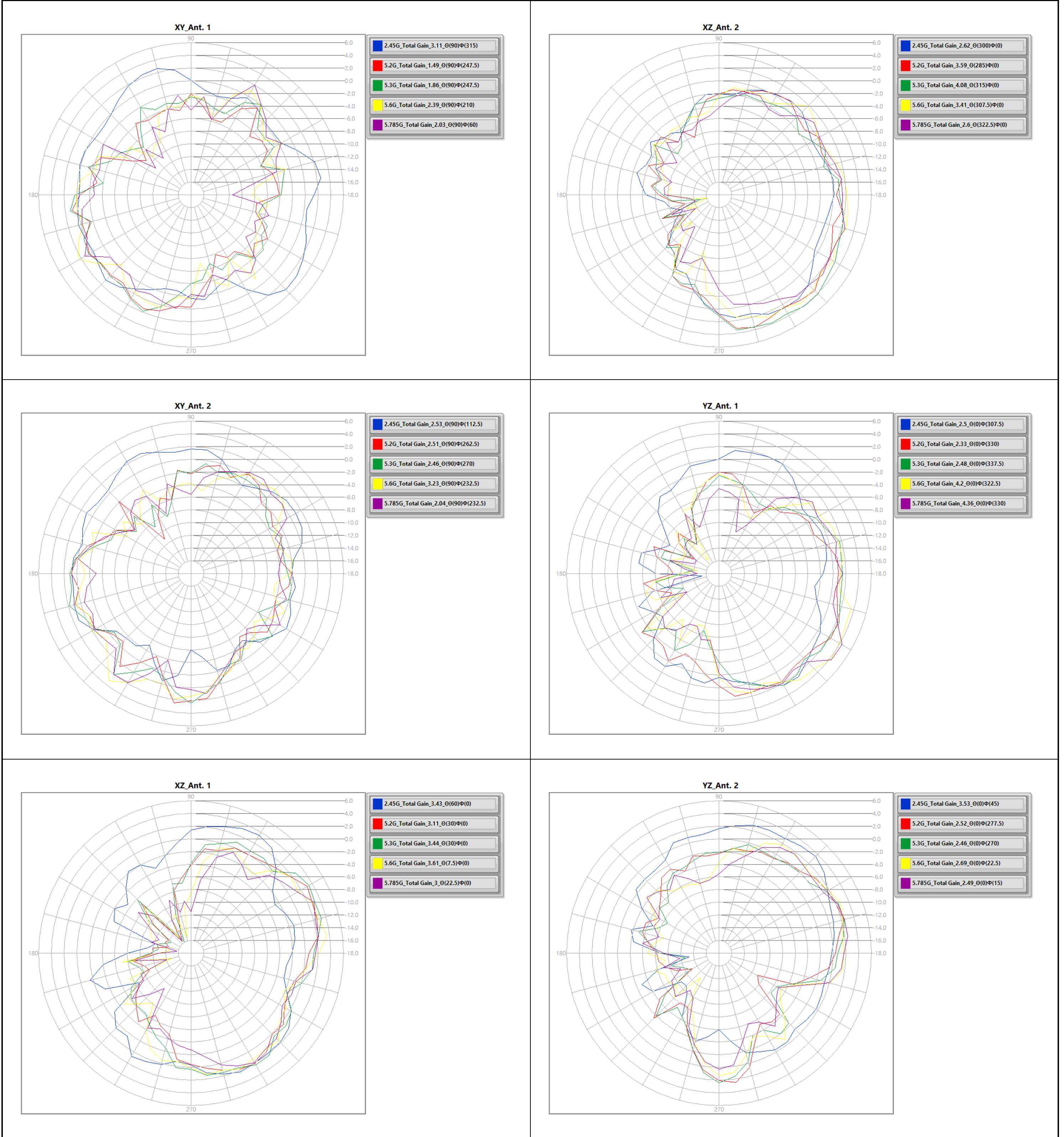


Antenna Pattern of 2.4GHz/5GHz

Appendix F

Θ(67.5°)	-1.06/-0.44	-2.09/-1.76	-0.41/0.97	1.90/2.14	1.15/-0.10	-0.42/0.07	0.75/0.93	0.36/-5.02	-2.01/-0.33	-4.71/-0.77	-2.50/-1.37	-1.86/-1.23	2.81/1.84	2.57/2.30	3.50/3.27	0.82/2.20	0.74/-4.17	-3.24/-4.24	-3.82/-1.68	-3.05/-0.66	-4.42/-4.60	-2.17/-3.44	-4.34/-1.68	-0.56/-0.89
Θ(75°)	-0.97/-0.68	-1.73/-2.37	-0.87/0.80	1.96/1.21	0.22/-0.59	-1.36/-1.81	-1.46/-1.41	-0.63/-3.55	-2.36/-0.98	-5.96/-2.07	-4.52/0.33	-0.50/0.84	1.95/2.57	2.13/-1.47	4.47/4.34	1.89/3.80	3.24/0.28	-3.07/-1.13	-1.35/0.50	-1.63/-0.03	-3.01/-2.99	-2.58/-4.26	-4.81/-2.39	-1.46/-2.18
Θ(82.5°)	-1.00/-1.01	-2.41/-3.47	-1.73/0.78	1.54/0.91	0.03/-1.67	-3.23/-3.58	-1.38/-3.48	-3.64/-4.01	-1.60/-3.02	-6.66/-3.05	-5.07/-0.16	-0.90/0.39	1.44/2.25	1.88/0.81	3.39/3.01	2.19/4.38	3.67/0.60	-0.47/-1.22	-0.86/-1.59	-0.46/0.15	-3.59/-3.07	-2.42/-5.54	-3.81/-1.71	-3.70/-2.89
Θ(90°)	-2.38/-1.96	-3.29/-4.17	-2.19/0.49	0.71/-0.01	0.19/-1.71	-2.55/-4.81	-3.77/-3.93	-4.38/-5.63	-2.83/-4.63	-7.10/-4.54	-6.30/-1.17	-2.16/-0.24	-1.36/-0.37	0.87/-0.74	-0.02/-1.12	0.57/3.23	1.85/0.05	-0.07/1.85	1.29/0.81	-1.25/-1.43	-3.96/-3.17	-3.95/-5.56	-3.86/-1.99	-4.50/-4.73
Θ(97.5°)	-4.87/-3.01	-2.80/-4.66	-3.07/-0.72	-0.32/-0.71	-0.43/-2.17	-3.53/-4.25	-6.06/-4.31	-4.95/-6.53	-3.89/-6.33	-7.28/-6.55	-6.91/-2.42	-3.92/-2.56	-2.76/-3.56	-1.01/-4.31	-2.96/-5.54	-2.86/-1.74	-2.50/-4.62	-2.21/-1.00	-0.54/-1.58	-3.06/-4.52	-3.98/-5.50	-5.81/-6.10	-4.21/-2.62	-3.99/-5.11
Θ(105°)	-5.19/-4.21	-3.07/-4.89	-4.94/-2.00	-1.30/-0.74	-1.48/-1.77	-3.41/-5.17	-6.66/-4.63	-4.97/-9.13	-4.30/-7.43	-7.39/-6.75	-11.93/-4.03	-4.55/-3.46	-8.73/-6.99	-5.34/-7.90	-4.20/-7.45	-5.92/-2.91	-8.79/-11.51	-6.90/-2.18	-3.25/-4.49	-5.74/-7.70	-3.36/-8.99	-6.15/-7.08	-5.21/-3.11	-1.99/-2.74
Θ(112.5°)	-4.92/-3.94	-3.92/-4.77	-6.85/-3.61	-1.93/-1.19	-1.67/-3.32	-3.83/-4.14	-6.26/-4.47	-7.37/-8.06	-6.10/-9.94	-7.46/-12.24	-12.78/-7.99	-5.34/-2.75	-4.66/-8.23	-6.84/-13.17	-5.08/-5.90	-5.62/-3.54	-11.89/-16.10	-7.10/-3.42	-7.32/-5.94	-7.88/-13.02	-9.66/-9.41	-6.96/-7.63	-3.76/-5.83	-3.21/-2.30
Θ(120°)	-5.45/-5.41	-3.46/-5.37	-5.23/-4.71	-3.03/-2.60	-3.60/-4.10	-3.79/-2.95	-6.17/-4.38	-6.98/-9.45	-6.73/-8.86	-8.41/-11.72	-11.69/-13.20	-8.62/-5.13	-3.74/-4.08	-3.90/-9.49	-6.35/-8.27	-8.20/-4.63	-10.84/-12.11	-8.37/-6.76	-8.59/-10.04	-9.68/-13.48	-8.03/-10.22	-6.17/-8.44	-5.56/-5.06	-5.14/-3.35
Θ(127.5°)	-5.39/-6.20	-4.92/-4.65	-6.22/-5.92	-3.90/-2.82	-3.49/-3.07	-3.52/-4.49	-5.66/-5.83	-5.02/-8.27	-8.92/-8.39	-8.50/-7.69	-10.99/-12.67	-12.00/-11.09	-6.84/-6.68	-7.36/-14.14	-16.10/-7.55	-8.05/-8.07	-9.50/-5.22	-10.69/-8.48	-13.16/-10.17	-8.45/-10.65	-15.14/-10.98	-4.35/-6.11	-4.11/-4.75	-6.16/-8.01
Θ(135°)	-6.19/-5.93	-4.89/-5.83	-7.39/-8.56	-7.21/-5.34	-6.39/-6.45	-4.66/-3.18	-4.07/-6.03	-5.47/-6.38	-8.40/-8.76	-9.35/-9.77	-9.55/-15.78	-11.23/-12.47	-12.05/-9.25	-6.78/-5.62	-5.57/-6.18	-4.87/-13.05	-8.36/-8.36	-11.25/-6.81	-8.00/-10.93	-8.32/-14.57	-15.83/-7.68	-10.38/-5.38	-3.35/-4.39	-4.86/-6.52
Θ(142.5°)	-4.99/-6.43	-7.26/-7.77	-5.92/-4.79	-6.15/-8.07	-8.54/-8.58	-7.39/-5.90	-3.99/-3.95	-4.92/-4.89	-7.78/-9.53	-6.93/-9.11	-12.75/-11.72	-9.72/-14.14	-9.02/-6.27	-9.11/-12.80	-15.81/-9.89	-10.92/-7.51	-7.07/-9.57	-10.45/-10.87	-9.60/-15.75	-14.72/-11.78	-12.49/-9.07	-10.25/-8.86	-7.73/-7.69	-5.03/-3.86
Θ(150°)	-6.91/-7.44	-7.57/-7.30	-8.06/-7.71	-8.98/-8.92	-7.92/-7.40	-8.66/-7.42	-6.40/-6.32	-5.18/-5.00	-7.60/-12.26	-14.74/-13.10	-7.88/-7.12	-7.89/-10.20	-14.12/-8.57	-11.30/-15.52	-14.84/-13.34	-13.85/-11.90	-12.53/-13.55	-11.89/-8.07	-8.75/-9.61	-7.24/-8.67	-14.25/-10.11	-7.16/-7.99	-8.06/-7.97	-6.65/-7.46
Θ(157.5°)	-8.33/-7.90	-7.22/-6.36	-5.73/-6.49	-6.99/-8.61	-8.39/-7.41	-7.42/-7.36	-7.21/-8.56	-8.08/-6.92	-6.92/-8.04	-9.02/-11.64	-12.37/-13.13	-13.06/-12.62	-12.43/-10.99	-10.24/-9.52	-9.06/-9.52	-14.98/-15.11	-11.63/-9.95	-8.88/-8.98	-8.93/-8.19	-7.96/-9.14	-9.38/-7.18	-8.16/-11.59	-9.17/-7.43	-6.83/-7.24
Θ(165°)	-9.04/-7.66	-6.37/-6.01	-6.38/-5.75	-6.48/-8.16	-8.91/-9.43	-9.90/-9.86	-8.91/-7.96	-7.40/-8.73	-8.11/-6.97	-7.42/-9.31	-11.83/-13.09	-15.62/-15.52	-16.06/-15.01	-14.72/-12.11	-9.65/-9.07	-8.68/-7.30	-7.61/-8.84	-8.78/-9.38	-7.50/-7.00	-7.26/-8.18	-9.20/-8.76	-8.85/-9.10	-8.73/-8.78	-9.57/-8.79
Θ(172.5°)	-10.39/-8.91	-10.68/-11.99	-9.62/-9.06	-8.56/-8.46	-7.98/-7.24	-7.47/-7.61	-8.97/-9.82	-10.12/-10.03	-10.44/-11.41	-13.62/-14.13	-14.77/-14.84	-13.62/-14.13	-14.43/-12.68	-13.60/-14.08	-14.05/-13.13	-14.05/-12.52	-11.09/-9.89	-9.92/-9.80	-9.44/-9.11	-9.38/-9.55	-9.92/-9.80	-9.79/-10.71	-9.91/-9.53	-9.86/-11.05
Θ(180°)	-9.78/-11.07	-10.75/-9.49	-9.34/-9.95	-9.59/-8.86	-8.38/-7.41	-6.73/-6.33	-6.71/-7.67	-8.57/-10.06	-12.44/-14.20	-14.89/-14.86	-15.43/-15.17	-14.11/-12.16	-10.55/-10.09	-8.90/-7.17	-6.70/-6.87	-7.63/-8.38	-8.22/-8.51	-8.22/-9.87	-11.94/-11.75	-11.04/-10.85	-10.17/-9.34	-9.46/-9.82	-8.77/-8.52	-9.74/-10.11
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°)	1.47/1.64	1.45/-1.49	1.61/1.22	1.35/1.58	0.97/1.23	1.56/1.51	1.66/1.76	1.52/1.36	1.45/1.51	1.56/1.41	1.27/1.29	1.57/1.92	1.92/1.51	1.32/1.51	1.32/1.39	1.56/1.36	1.69/1.76	1.73/1.95	1.94/2.03	1.80/1.69	1.89/1.95	2.02/2.01	1.94/1.98	2.05/1.83
Θ(7.5°)	1.39/1.29	1.64/-1.89	1.87/1.98	2.18/2.27	2.37/2.21	2.07/2.46	2.45/2.31	2.05/1.67	1.57/1.38	1.29/1.18	0.99/0.95	0.95/1.24	1.54/1.33	0.99/0.96	1.32/0.92	0.76/0.89	0.57/0.99	0.54/0.49	1.42/1.24	1.09/0.84	1.13/1.18	1.14/0.92	0.95/1.00	1.15/1.20
Θ(15°)	0.94/1.31	1.23/1.30	1.51/1.10	0.99/1.55	1.61/1.58	1.90/2.46	2.28/1.63	1.42/1.28	1.20/0.96	0.96/1.76	2.49/2.79	2.45/2.15	2.29/2.04	1.70/1.61	1.44/1.23	0.61/-0.06	0.02/0.24	0.53/0.87	1.19/1.27	0.76/0.23	-0.81/-0.61	-0.36/0.05		
Θ(22.5°)	0.18/0.94	0.86/0.87	1.26/1.41	1.17/1.26	1.63/1.25	1.32/2.24	2.24/1.88	2.30/1.78	1.21/1.79	1.60/1.01	0.55/1.04	1.62/2.01	1.92/2.17	2.27/1.69	1.21/0.62	-1.03/-1.97	-2.48/-3.08	-2.58/-3.57	-4.56/-4.81	-4.13/-2.79	-1.12/0.07	-0.16/-1.20	-2.19/-1.88	-1.44/-0.60
Θ(30°)	0.29/1.25	1.65/1.06	0.44/1.31	1.71/1.41	1.54/0.58	0.05/0.96	1.05/1.85	1.72/1.02	-0.18/0.39	1.04/0.90	1.58/2.67	2.29/1.59	1.99/3.43	3.29/1.93	1.59/1.79	0.63/-0.89	-2.02/-4.05	-6.73/-10.44	-7.21/-5.44	-4.78/-6.79	-6.71/-4.85	-4.23/-2.59	-1.79/-1.54	-1.77/-1.03
Θ(37.5°)	0.85/1.46	0.65/0.92	2.06/2.52	2.56/2.69	2.44/1.94	1.76/1.70	0.87/1.19	1.17/1.27	0.37/1.90	-0.15/0.72	2.32/3.10	1.50/1.26	2.60/2.43	1.72/2.72	2.62/1.48	0.89/0.95	0.39/-1.94	-7.60/-8.72	-6.62/-6.96	-6.14/-5.05	-5.30/-4.47	-5.30/-3.67	-1.85/-1.31	-1.12/0.01
Θ(45°)	-0.34/0.03	0.34/-1.28	2.11/2.65	2.46/2.01	1.52/0.78	0.72/0.92	1.10/0.96	0.86/0.40	-1.77/-1.20	0.93/0.95	0.09/1.62	2.13/2.13	2.09/3.11	2.82/3.64	4.03/3.72	2.77/1.34	0.50/0.33	-2.03/-7.39	-5.25/-5.85	-7.72/-8.09	-6.93/-4.28	-3.70/-3.77	-3.23/-0.48	0.87/0.88
Θ(52.5°)	-2.27/-0.90	-0.63/0.11	1.21/2.03	2.47/2.05	1.99/1.34	0.22/-1.47	1.65/1.82	1.81/-1.33	-2.29/-0.78	-0.73/-0.34	3.49/1.12	2.18/3.83	2.60/2.95	3.10/2.63	2.37/1.70	0.50/0.44	0.73/-1.66	-3.52/-3.11	-3.66/-4.02	-7.02/-6.46	-3.37/-1.91	-2.57/-0.49	0.93/-2.22	
Θ(60°)	-2.41/-1.79	-1.58/-0.90	-0.05/1.17	2.24/2.83	1.85/1.21	0.01/0.21	1.24/0.93	2.17/-0.28	-4.41/0.27	-2.99/-1.71	-0.61/0.21	1.51/-2.09	0.99/1.72	-0.29/1.78	1.01/0.59	-0.19/-1.76	-2.07/-1.12	-0.88/-4.39	-5.44/-6.36	-5.21/-2.18	-6.21/-7.09	-2.50/-3.48	-3.55/-0.71	0.33/-3.44
Θ(67.5°)	-1.10/-2.34	-0.53/-0.58	0.43/1.30	2.67/2.95	2.24/0.41	-0.92/-2.18	-0.01/-0.27	0.73/-0.54	-5.27/0.43	-4.48/-3.05	-2.60/-0.96	-2.22/0.26	0.53/0.14	0.66/1.09	2.37/2.98	0.43/-1.79	-1.28/-2.51	-4.34/-10.44	-5.93/-5.63	-3.75/-2.54	-4.74/-5.35	-2.08/-4.24	-2.86/-1.21	-0.56/-2.28
Θ(75°)	-1.31/-2.19	-0.92/-0.80	1.00/1.72	2.63/2.78	2.20/0.48	-0.91/-3.48	-2.12/-1.88	-0.82/-2.39	-3.38/-1.22	-3.84/-4.23	-3.43/-1.93	-1.68/-1.61	-0.13/1.53	1.52/0.28	2.62/3.83	1.71/2.29	2.90/-0.34	-5.04/-5.09	-3.51/-1.21	-1.46/-1.74	-3.49/-3.52	-2.57/-5.26	-1.93/-1.33	-2.02/-1.43
Θ(82.5°)	-2.55/-2.58	-1.39/-1.45	0.57/1.12	1.63/2.12	1.35/0.02	-0.54/-4.11	-3.73/-3.86	-2.05/-6.52	-2.74/-2.42	-5.05/-5.92	-4.52/-2.01	-0.80/1.46	-0.61/1.38	1.15/-0.30	2.06/2.60	0.99/2.98	3.47/-0.09	-6.03/-0.67	-0.24/0.51	0.20/-1.86	-2.85/-3.56	-3.48/-5.23	-1.67/-2.72	-1.90/-2.35
Θ(90°)	-4.28/-3.80	-2.88/-3.72	-0.61/0.05	-0.20/0.76	0.39/-0.64	-1.36/-2.75	-5.48/-4.75	-3.96/-7.76	-3.91/-3.46	-4.60/-6.81	-5.00/-3.12	-1.55/-0.09	-3.09/-1.43	-0.61/-1.31	-0.34/-0.90	-1.31/2.04	1.83/-0.91	-3.85/0.08	0.30/1.07	-1.09/-2.68	-3.87/-3.86	-5.59/-4.55	-1.75/-3.65	-2.46/-3.73
Θ(97.5°)	-5.53/-5.08	-5.19/-5.37	-1.84/-0.82	-0.65/-0.37	-1.28/-1.38	-1.70/-2.58	-6.35/-6.17	-4.46/-10.00	-4.17/-4.55	-5.27/-8.39	-5.50/-4.32	-2.54/-3.01	-5.90/-4.37	-3.96/-3.68	-2.03/-4.78	-4.66/0.74	-2.51/-5.18	-3.82/-0.59	-0.78/-1.53	-4.30/-4.89	-3.92/-6.42	-6.84/-4.08	-2.87/-6.34	-3.73/-4.73
Θ(105°)	-6.03/-5.30	-4.89/-5.17	-3.11/2.06	-1.03/-1.82	-1.19/-1.61	-3.30/-3.13	-6.60/-5.81	-4.81/-8.48	-5.68/-5.96	-5.81/-8.76	-9.95/-6.76	-4.48/-4.31	-7.66/-9.63	-10.40/-9.27	-4.36/-7.38	-7.66/-2.09	-7.65/-15.73	-7.13/-3.25	-3.03/-5.06	-6.27/-9.16	-4.23/-8.39	-7.61/-6.34	-2.64/-5.77	-6.10/-6.37
Θ(112.5°)	-6.91/-7.49	-5.27/-4.53	-3.04/-3.16	-2.68/-2.35	-1.89/-2.81	-4.48/-4.65	-5.30/-5.69	-5.30/-9.22	-6.03/-5.88	-8.18/-11.29	-9.56/-9.56	-6.96/-4.74	-6.34/-9.20	-10.64/-15.59	-6.43/-6.48	-5.04/-3.17	-13.45/-15.82	-8.73/-5.44	-5.56/-6.41	-10.81/-10.44	-8.67/-11.40	-9.77/-7.21	-4.35/-5.44	-7.18/-6.60
Θ(120°)	-6.56/-7.68	-6.93/-7.67	-7.60/-4.71	-4.05/-3.29	-2.45/-3.96	-4.31/-4.27	-3.83/-4.42	-5.37/-8.50	-9.08/-6.94	-6.27/-12.20	-10.81/-10.94	-10.99/-6.71	-5.79/-5.31	-7.83/-14.78	-8.88/-9.38	-5.57/-3.74	-9.67/-1							

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

Appendix G

Total Gain Data

Freq(Hz)	6.1750Pol.	TotalAnt. 1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+				
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	4.45/4.42	4.32/4.26	4.37/4.50	4.52/4.42	4.30/4.41	4.65/4.69	4.80/4.63	4.60/4.79	5.02/4.99	4.86/4.96	4.95/5.03	5.00/5.07	5.09/5.11	5.03/4.95	4.94/4.98	5.12/5.25		5.07/5.09	5.05/5.09	5.17/5.14	5.00/4.84	4.86/4.82	4.63/4.48	4.45/4.40
Θ(7.5°)	5.015/0.01	4.994/94	5.055/12	5.044/94	4.904/76	4.694/47	4.694/47	4.063/97	4.113/98	3.593/40	3.523/36	3.303/29	3.103/12	3.103/07	3.043/18	3.523/89	4.184/04	4.544/62	4.815/03	4.984/93	5.075/01	4.984/93	4.935/01	
Θ(15°)	3.173/29	3.573/97	4.104/16	4.274/36	4.314/30	4.414/84	5.054/64	3.963/99	4.103/63	3.433/26	2.912/67	2.291/75	1.461/33	1.181/40	1.872/20	2.793/11	3.543/72	3.653/91	4.264/54	4.714/89	4.744/62	4.333/96	3.713/37	3.113/02
Θ(22.5°)	1.631/65	2.363/12	3.252/93	2.692/89	3.444/11	4.666/12	5.264/81	4.113/70	3.553/52	3.703/86	3.955/69	3.112/38	1.801/30	1.081/43	1.861/89	2.292/95	4.134/94	4.924/26	4.124/36	4.003/81	3.943/83	3.362/74	2.241/97	1.461/36
Θ(30°)	2.322/34	2.703/21	2.791/95	1.431/82	2.893/53	3.954/53	4.854/55	3.642/89	2.913/20	4.054/35	4.354/69	4.544/09	3.402/47	1.521/16	1.632/54	3.894/66	4.423/73	3.122/82	2.182/20	2.603/27	3.342/63	1.821/90	2.091/83	
Θ(37.5°)	2.872/63	2.833/61	3.723/37	2.732/78	2.823/06	3.584/23	4.734/46	3.051/72	1.752/52	3.624/46	4.494/75	4.514/16	3.682/22	0.430/85	1.861/93	1.721/89	2.663/68	4.193/01	0.80/-0.35	0.411/27	1.501/77	2.742/55	1.751/91	2.152/26
Θ(45°)	2.531/90	2.534/00	4.894/91	4.062/86	1.872/00	2.402/71	3.413/46	2.461/24	1.462/02	3.233/76	3.854/10	4.173/90	2.981/53	0.06/-0.15	0.62/-0.29	1.771/42	0.982/04	2.101/56	0.05/-0.90	-1.140/32	1.371/82	2.522/40	1.591/49	1.381/78
Θ(52.5°)	3.132/35	3.084/05	5.025/11	4.403/18	1.370/87	0.770/78	1.541/78	1.311/11	1.852/68	2.873/08	3.334/06	4.093/71	3.001/98	0.13/-1.43	-0.410/31	1.170/75	0.151/32	1.580/68	0.410/22	0.100/87	0.630/09	1.422/22	1.831/86	1.842/00
Θ(60°)	3.643/38	3.653/42	4.264/23	3.382/19	0.60/-0.51	-1.48/-1.13	-0.210/09	-0.80/-0.06	2.022/19	2.503/25	3.153/49	4.204/33	3.453/50	2.02/-0.68	-0.63/-1.16	-0.61/-1.11	-2.37/-1.30	-0.75/-1.31	-1.00/-1.88	-0.84/-0.35	-1.41/-1.03	-0.061/69	1.302/09	2.382/53
Θ(67.5°)	3.393/56	3.492/31	2.892/15	1.300/24	-0.72/-1.99	-3.11/-2.96	-2.24/-2.70	-3.35/-1.30	1.201/73	1.982/93	3.163/40	3.904/03	3.653/88	2.140/10	-0.27/-0.23	-1.98/-3.21	-4.45/-4.16	-4.62/-3.19	-3.50/-5.85	-2.14/-0.26	-3.39/-1.90	0.320/22	0.241/14	2.052/64
Θ(75°)	1.862/74	2.241/09	1.121/138	-2.15/-1.54	-2.38/-3.66	-6.57/-5.96	-4.31/-4.66	-6.57/-2.65	-0.210/55	0.882/26	1.912/66	2.893/23	2.983/25	1.990/26	-0.54/-2.55	-3.30/-5.33	-4.86/-4.61	-5.23/-4.15	-5.89/-7.50	-2.48/-0.54	-3.76/-3.40	-2.15/-1.04	-0.320/19	1.361/88
Θ(82.5°)	0.041/23	0.690/33	-0.15/-2.67	-3.13/-1.63	-2.56/-5.25	-9.42/-7.79	-5.60/-6.66	-9.42/-3.69	-2.10/-1.49	0.120/66	0.361/47	1.421/60	1.901/80	0.68/-1.59	-3.86/-4.26	-5.43/-8.20	-6.79/-5.06	-4.84/-5.55	-6.52/-6.35	-2.14/-1.32	-3.01/-5.34	-4.65/-2.01	-1.53/-0.58	-0.360/26
Θ(90°)	-1.98/-0.92	-1.12/-1.32	-0.86/-2.91	-2.99/-1.60	-4.17/-8.98	-12.00/-10.29	-7.42/-8.58	-7.58/-5.31	-4.56/-2.73	-1.14/-1.74	-1.25/-0.88	-0.63/-0.04	0.010/23	-0.93/-2.78	-6.73/-5.61	-6.29/-7.70	-8.03/-5.64	-5.42/-7.60	-8.50/-8.80	-2.32/-2.44	-6.15/-8.66	-7.63/-4.52	-3.78/-2.58	-2.39/-1.54
Θ(97.5°)	-3.72/-2.47	-2.43/-1.28	-2.13/-3.40	-2.09/-2.31	-6.36/-12.51	-15.58/-11.99	-10.28/-10.80	-6.46/-6.63	-7.09/-2.19	-2.98/-3.65	-3.85/-2.70	-1.61/-2.07	-1.08/-2.02	-2.80/-5.56	-9.11/-7.38	-6.83/-7.96	-7.10/-6.41	-7.59/-11.02	-9.58/-12.05	-5.52/-6.22	-6.21/-11.26	-7.20/-4.57	-4.55/-4.79	-5.73/-3.46
Θ(105°)	-4.37/-3.84	-4.19/-4.91	-4.82/-5.61	-4.27/-4.63	-8.46/-12.07	-14.57/-13.41	-12.23/-12.25	-6.97/-10.09	-6.92/-3.77	-4.76/-5.39	-5.18/-3.73	-2.86/-3.83	-2.77/-3.77	-4.52/-7.81	-11.82/-11.21	-12.33/-12.62	-13.51/-11.97	-11.07/-13.92	-5.25/-6.14	-10.76/-11.43	-9.61/-11.51	-6.11/-6.36	-6.81/-6.21	
Θ(112.5°)	-4.85/-4.57	-6.56/-8.31	-8.81/-8.17	-6.84/-5.75	-7.26/-12.76	-11.90/-15.04	-13.67/-11.06	-8.39/-12.72	-6.97/-4.36	-7.78/-8.73	-5.28/-3.98	-4.08/-5.08	-4.86/-5.60	-6.43/-9.10	-10.02/-9.90	-9.27/-10.94	-6.25/-7.87	-15.37/-11.20	-12.48/-14.63	-12.92/-13.02	-8.13/-14.44	-9.16/-9.34	-8.71/-9.38	-9.75/-1.70
Θ(120°)	-6.25/-5.40	-6.51/-8.17	-8.70/-9.12	-11.11/-6.94	-9.44/-14.75	-11.36/-11.92	-15.04/-10.75	-8.68/-14.98	-6.58/-7.66	-9.22/-9.12	-5.97/-5.22	-6.11/-5.21	-5.60/-7.35	-7.91/-10.22	-9.84/-11.28	-15.33/-9.91	-10.70/-10.64	-11.01/-8.06	-7.79/-9.92	-11.63/-8.34	-9.81/-14.74	-7.35/-8.35	-10.13/-10.64	-9.59/-7.37
Θ(127.5°)	-9.98/-7.21	-7.33/-9.06	-10.07/-11.19	-9.62/-9.29	-14.74/-12.49	-14.13/-11.27	-15.31/-11.44	-9.49/-15.61	-9.28/-7.49	-8.64/-10.58	-8.64/-7.63	-7.40/-6.13	-5.37/-7.28	-6.12/-9.36	-9.36/-14.58	-11.41/-11.38	-12.65/-15.07	-9.46/-13.85	-15.82/-10.86	-15.76/-11.04	-15.23/-10.86	-16.71/-11.43	-9.61/-11.51	-10.92/-8.16
Θ(135°)	-12.06/-13.83	-15.29/-14.24	-15.31/-13.36	-13.21/-15.04	-9.07/-10.00	-15.59/-13.95	-12.94/-8.23	-8.48/-12.74	-9.03/-7.57	-10.30/-13.02	-13.52/-8.94	-7.54/-7.67	-6.51/-7.25	-7.50/-10.27	-9.47/-11.41	-10.20/-13.82	-12.25/-13.53	-15.68/-15.14	-10.58/-15.63	-9.35/-11.43	-14.85/-11.56	-15.03/-12.33	-8.64/-8.26	-7.28/-11.11
Θ(142.5°)	-11.88/-11.97	-12.68/-13.38	-15.39/-13.85	-11.75/-11.54	-12.23/-15.43	-14.60/-14.86	-15.49/-11.58	-11.94/-13.58	-10.03/-9.66	-11.36/-14.33	-14.45/-12.23	-9.33/-8.41	-9.51/-11.46	-11.48/-11.16	-9.94/-10.29	-9.80/-15.06	-15.43/-12.72	-13.48/-13.04	-8.11/-9.56	-14.91/-12.76	-14.65/-15.01	-13.50/-15.84	-14.97/-11.25	-8.18/-8.44
Θ(150°)	-13.52/-13.15	-10.97/-12.24	-15.94/-15.36	-12.55/-13.43	-15.02/-14.39	-13.05/-12.83	-11.02/-10.86	-15.77/-15.23	-10.87/-9.15	-8.05/-10.36	-13.64/-12.46	-11.28/-13.26	-12.01/-12.90	-11.31/-11.65	-12.29/-12.36	-11.81/-12.84	-13.11/-13.26	-8.21/-10.77	-13.11/-9.56	-13.64/-16.08	-14.72/-15.55	-14.07/-15.64	-16.07/-14.61	-14.13/-13.31
Θ(157.5°)	-15.61/-15.26	-15.15/-15.68	-15.44/-15.53	-15.63/-15.74	-15.92/-13.44	-14.78/-16.27	-15.11/-15.10	-12.88/-13.18	-14.20/-12.51	-12.22/-13.95	-14.42/-13.27	-11.97/-13.48	-15.71/-13.29	-12.94/-11.85	-10.12/-10.24	-9.28/-13.90	-15.32/-12.51	-13.81/-13.27	-13.26/-15.24	-14.95/-15.62	-15.04/-14.74	-15.05/-15.71	-15.57/-15.82	-15.99/-15.04
Θ(165°)	-13.44/-13.74	-14.06/-12.72	-12.59/-13.43	-15.16/-15.82	-14.55/-11.88	-11.08/-11.74	-14.54/-15.40	-15.35/-14.01	-11.80/-12.47	-14.12/-14.03	-13.33/-14.43	-15.06/-15.14	-14.10/-13.16	-12.25/-11.58	-12.90/-14.33	-14.89/-15.12	-13.16/-13.16	-15.18/-15.42	-14.88/-14.14	-12.77/-15.15	-15.79/-15.37	-15.22/-15.13	-14.69/-15.15	-14.95/-13.12
Θ(172.5°)	-15.47/-15.53	-15.36/-15.57	-15.12/-15.80	-15.23/-14.49	-13.43/-13.06	-12.63/-12.84	-14.29/-15.35	-15.19/-14.60	-15.98/-15.59	-15.22/-14.51	-14.66/-14.68	-14.36/-14.38	-14.13/-14.14	-13.32/-13.32	-15.59/-15.59	-16.04/-15.28	-15.37/-15.57	-15.98/-15.78	-15.71/-15.77	-15.20/-15.61	-14.96/-16.13	-15.04/-15.76	-15.04/-16.14	-15.99/-15.89
Θ(180°)	-15.81/-15.12	-15.42/-14.89	-15.62/-15.59	-15.17/-15.31	-14.86/-15.44	-14.81/-15.58	-14.47/-14.72	-15.76/-15.27	-15.67/-15.47	-15.35/-15.43	-15.06/-15.75	-15.28/-15.39	-14.93/-16.10	-15.60/-14.72	-15.25/-14.67	-15.72/-15.39	-15.30/-15.25	-14.77/-15.55	-15.03/-15.63	-15.82/-14.38	-15.60/-15.60	-15.15/-15.08	-16.07/-15.48	-14.81/-15.43
Freq(Hz)	6.1750Pol.	TotalAnt. 1	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	4.26/4.19	4.203/99	3.813/65	3.463/24	2.893/03	3.173/08	3.103/21	3.273/27	3.613/65	3.493/59	3.724/00	4.164/22	4.354/41	4.424/22	4.074/03	4.034/02	3.753/50	3.673/58	3.283/43	3.693/56	3.243/48	3.663/75	3.783/91	4.194/23
Θ(7.5°)	4.784/78	4.814/61	4.374/09	3.743/43	3.443/28	3.153/27	3.603/60	3.493/63	3.953/91	3.813/70	3.823/72	3.863/79	3.883/92	3.783/65	3.363/23	2.973/15	3.313/21	3.273/33	3.313/41	3.603/71	3.663/78	3.914/26	4.384/60	4.804/81
Θ(15°)	4.344/41	4.454/20	3.893/59	3.373/30	3.363/19	3.303/67	3.924/04	4.464/45	4.084/34	4.453/79	3.903/85	3.723/38	3.513/49	3.313/38	3.433/64	3.633/80	3.653/19	3.343/26	3.273/21	3.113/54	3.543/64	3.613/66	3.733/88	4.124/24
Θ(22.5°)	2.582/91	3.102/93	2.331/99	2.192/54	2.923/21	3.583/81	3.903/55	3.623/62	2.882/82	2.702/53	2.453/00	2.822/68	2.421/99	1.631/70	1.852/39	3.364/13	4.294/09	3.923/83	3.322/71	3.153/11	2.932/53	2.362/25	2.142/00	2.012/19
Θ(30°)	2.422/74	2.952/94	2.231/39	1.381/95	2.442/70	3.103/30	3.583/65	3.172/52	2.452/39	1.701/88	2.383/28	3.703/67	3.422/19	1.140/28	-0.850/16	2.313/90	4.694/74	4.233/62	2.922/00	1.902/15	2.331/98	1.581/26	1.431/80	1.792/27
Θ(37.5°)	3.022/86	3.433/88	3.753/28	3.032/27	1.661/64	2.513/31	3.543/11	2.562/09	1.156/91	3.202/33	4.264/57	4.193/85	3.842/85	2.191/11	0.255/-0.17	0.211/46	3.154/33	3.763/12	0.73/-0.17	-0.070/43	0.800/48	0.962/37	2.402/60	2.942/90
Θ(45°)	1.290/71	1.873/72	4.664/72	4.423/17	1.160/41	1.352/49	2.642/23																	

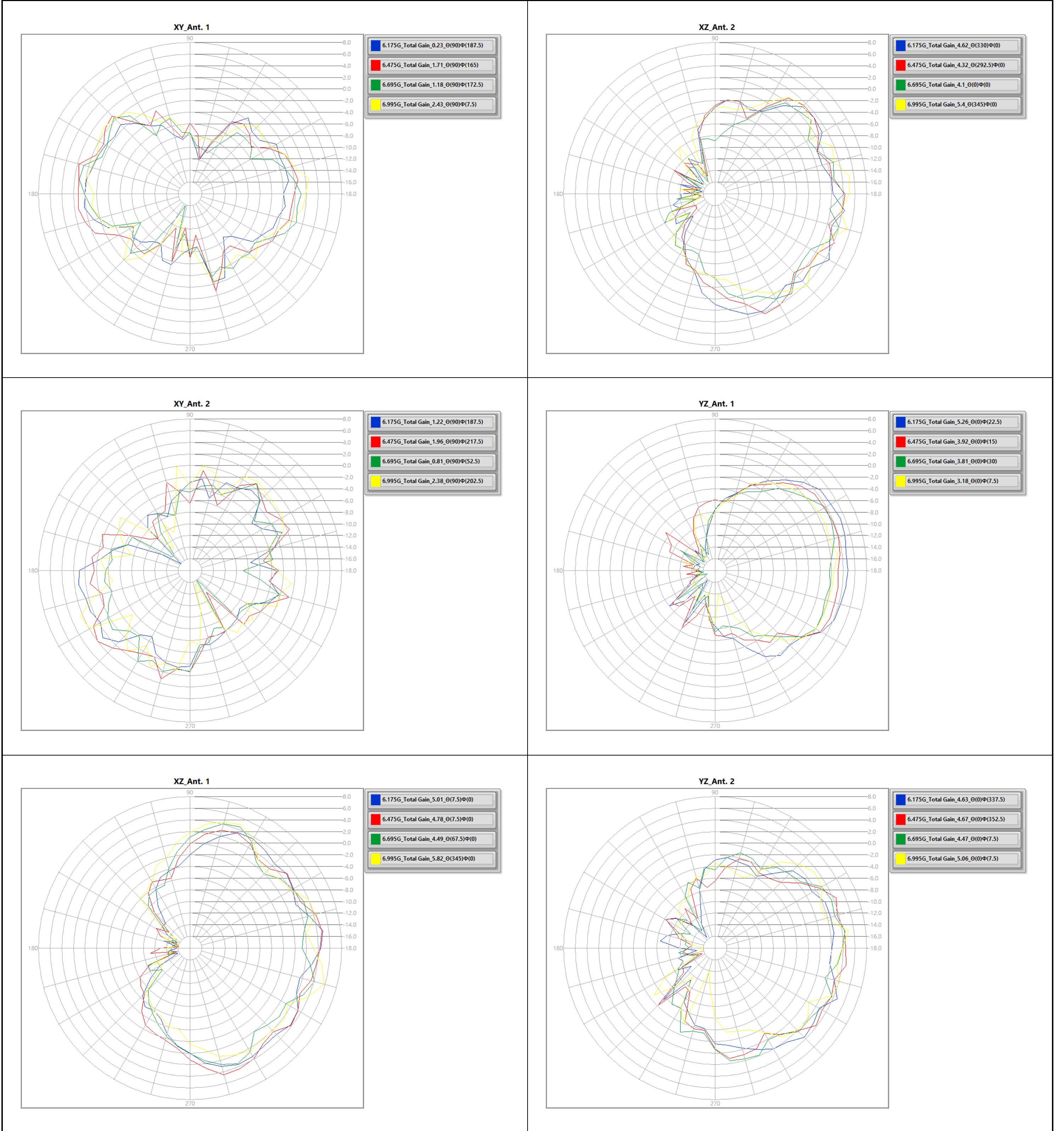


Antenna Pattern of 6GHz

Appendix G

Θ(22.5°)	1.00/1.07	1.13/1.41	2.15/3.01	3.58/3.47	3.38/3.01	2.45/2.17	2.47/3.23	3.96/3.97	4.11/4.70	5.08/4.99	4.10/3.16	2.81/3.04	3.25/3.16	3.30/3.73	4.10/4.46	4.56/3.02	4.63/3.27	1.54/0.67	1.02/1.70	2.01/1.93	1.34/0.82	0.43/0.70		
Θ(30°)	3.17/3.73	3.25/2.66	1.97/1.82	2.20/2.21	2.77/3.45	3.66/2.70	1.25/1.97	3.76/4.36	4.38/4.73	5.13/4.91	4.49/4.89	5.22/5.12	4.62/3.69	3.18/3.38	3.82/4.28	4.45/4.22	5.18/4.43	2.65/1.43	1.67/1.48	1.62/2.56	3.15/2.73	2.08/1.50	1.35/2.18	
Θ(37.5°)	3.36/4.02	3.87/3.87	3.75/3.73	3.66/2.55	1.29/1.96	2.87/2.78	1.50/1.20	3.08/3.24	2.09/2.71	4.07/4.09	4.62/5.15	4.57/3.74	2.70/1.74	2.10/3.08	3.61/3.61	3.72/3.72	3.19/4.43	5.93/5.32	1.82/0.56	1.44/3.49	3.48/2.66	2.19/1.92	1.78/2.49	
Θ(45°)	3.17/2.56	2.04/3.15	4.35/4.86	4.46/3.50	2.38/2.52	2.48/1.63	0.82/0.86	0.19/0.94	0.22/0.94	2.29/3.44	3.62/2.88	2.60/3.11	3.16/1.34	-0.07/0.60	1.55/2.25	3.20/4.36	4.18/3.23	4.21/4.66	3.65/1.95	0.28/-0.18	1.91/3.69	2.59/1.40	2.18/2.09	2.54/3.38
Θ(52.5°)	1.06/0.57	1.43/2.51	3.11/3.43	3.05/1.95	1.37/1.28	1.27/-0.79	-1.88/-2.53	-2.61/-1.02	-0.67/-1.07	-0.02/1.01	0.30/-1.28	1.04/1.95	1.78/0.98	1.21/2.33	2.25/1.80	2.03/3.23	2.34/0.38	-1.11/-1.79	0.49/2.44	1.32/1.06	1.56/0.57	0.82/2.03		
Θ(60°)	-1.63/-0.40	0.12/0.08	0.15/1.65	2.47/2.15	0.72/-1.32	-0.47/-1.09	-3.75/-4.53	-4.36/-3.49	-2.39/-4.88	-3.72/-1.39	-1.69/2.59	-0.54/1.51	2.92/2.97	3.22/4.37	4.04/3.51	2.41/1.51	1.66/2.36	1.88/0.41	2.00/-0.40	-1.52/-1.93	-2.43/0.24	-1.33/-0.68	-0.32/0.92	1.73/-0.42
Θ(67.5°)	-2.37/-0.69	-2.57/-0.35	1.49/2.04	3.17/3.31	1.21/-2.39	-1.50/0.06	-2.76/-5.82	-3.89/-4.05	-2.88/-6.42	-6.82/-3.51	-3.51/-2.55	-1.48/1.82	3.74/3.32	2.87/3.61	3.45/3.15	1.98/0.66	-0.11/0.31	1.37/0.60	0.85/-1.58	-0.64/-1.84	-3.31/-0.96	-2.88/-3.58	-2.91/1.25	1.84/-1.68
Θ(75°)	-1.61/-2.27	-2.57/0.73	1.85/1.18	2.52/3.15	1.18/-1.30	-3.17/-0.36	-2.68/-5.28	-3.64/-7.77	-4.24/-7.34	-9.79/-7.44	-6.02/-3.58	-3.38/0.28	3.42/3.75	2.31/3.00	2.19/2.19	0.90/-1.29	-1.45/-1.81	0.41/0.07	-0.26/-3.53	-1.20/-1.79	-4.13/-2.91	-3.71/-4.39	-3.28/0.95	1.22/-2.26
Θ(82.5°)	-1.77/-5.29	-2.95/0.61	0.56/-1.30	1.09/1.46	0.76/-1.14	-4.85/-1.24	-2.33/-4.77	-5.12/-5.29	-5.69/-6.83	-8.75/-11.51	-9.13/-4.25	-4.41/-0.14	2.15/2.05	0.95/1.33	0.77/1.53	-0.68/-3.85	-2.72/-2.21	-0.13/-0.80	-1.20/-3.25	-1.60/-2.32	-5.12/-4.78	-4.36/-4.55	-4.67/-1.27	-0.68/-2.67
Θ(90°)	-3.11/-7.53	-3.10/-0.90	-3.68/-4.62	-0.98/-0.62	-1.68/-1.75	-5.15/-2.14	-2.89/-4.53	-5.68/-7.97	-6.77/-6.04	-7.70/-16.09	-12.75/-6.48	-4.44/-2.56	1.01/1.22	0.49/0.48	-0.28/0.85	-0.67/-4.12	-4.89/-2.61	-1.66/-1.28	-1.55/-5.16	-4.84/-5.40	-5.91/-6.20	-6.52/-7.23	-6.65/-3.41	-2.28/-4.10
Θ(97.5°)	-4.87/-9.53	-4.33/-3.43	-8.82/-5.16	-2.73/-3.12	-4.57/-3.45	-5.85/-3.21	-1.28/-6.04	-8.00/-8.69	-6.70/-6.28	-8.93/-15.94	-14.52/-7.23	-4.58/-3.87	-0.87/0.12	-1.29/-1.58	-1.91/-0.25	-0.91/-4.74	-8.39/-4.79	-3.45/-3.07	-4.12/-9.34	-8.21/-9.03	-6.33/-9.47	-14.36/-11.22	-8.25/-4.68	-4.96/-5.79
Θ(105°)	-6.57/-8.65	-6.57/-8.02	-8.23/-5.88	-5.46/-6.35	-7.72/-6.39	-6.93/-5.00	-7.60/-8.55	-11.34/-12.06	-8.02/-7.41	-9.92/-15.97	-15.62/-10.50	-6.69/-6.40	-4.18/-2.33	-2.29/-3.40	-3.40/-1.87	-1.08/-2.35	-8.28/-9.44	-7.41/3.56	-4.30/-12.49	-12.69/-14.65	-13.98/-15.50	-12.61/-15.07	-9.02/-10.07	-8.07/-6.98
Θ(112.5°)	-12.37/8.13	-8.60/-9.06	-8.70/-6.48	-7.07/-8.31	-6.58/-6.11	-6.82/-6.33	-11.67/-11.29	-12.86/-10.42	-6.15/-10.19	-10.77/-15.69	-15.08/-13.94	-8.59/-8.43	-5.65/-3.63	-2.98/-5.16	-4.48/-3.06	-0.73/-5.05	-6.93/-7.81	-6.54/-5.06	-6.10/-6.78	-12.74/-11.14	-11.64/-15.08	-14.01/-11.19	-12.52/-10.48	-10.21/-11.23
Θ(120°)	-11.67/-7.71	-10.11/-8.54	-6.05/-8.43	-7.90/-6.50	-6.97/-8.82	-9.54/-8.51	-13.26/-11.57	-11.30/-8.68	-7.23/-9.63	-10.55/-15.21	-15.71/-11.79	-9.95/-9.00	-7.13/-5.65	-3.00/-5.96	-5.38/-7.37	-3.81/-3.80	-5.25/-12.33	-8.67/-5.09	-7.35/-8.04	-10.79/-10.22	-12.46/-11.84	-14.72/-15.51	-8.19/-6.46	-10.43/-11.26
Θ(127.5°)	-10.40/-13.88	-8.49/-6.00	-5.55/-7.47	-7.43/-7.00	-9.38/-10.98	-11.32/-12.99	-15.64/-10.62	-8.84/-8.70	-7.44/-8.97	-10.24/-13.36	-15.87/-15.03	-9.63/-10.56	-9.59/-6.13	-5.19/-6.06	-6.88/-8.80	-6.06/-5.98	-7.07/-8.58	-9.99/-8.30	-11.06/-12.70	-14.29/-14.95	-13.93/-9.33	-11.33/-14.02	-11.03/-9.49	-10.65/-9.71
Θ(135°)	-15.27/-9.43	-8.57/-6.44	-9.39/-11.91	-9.07/-11.92	-15.63/-14.18	-12.82/-13.89	-11.31/-13.21	-9.53/-9.69	-7.80/-7.27	-10.55/-10.17	-11.64/-12.15	-11.19/-8.85	-12.68/-11.27	-8.37/-4.92	-4.45/-7.98	-7.25/-11.81	-12.62/-13.83	-9.25/-5.47	-5.24/-8.67	-13.46/-15.92	-11.45/-15.94	-10.96/-13.16	-11.57/-13.27	-10.02/-11.37
Θ(142.5°)	-15.28/-13.78	-9.15/-9.22	-10.33/-10.92	-12.60/-13.12	-12.42/-11.14	-14.43/-10.09	-9.70/-11.90	-7.69/-7.27	-7.60/-9.47	-11.95/-11.62	-13.12/-14.14	-10.97/-9.23	-9.55/-9.96	-8.43/-6.31	-6.36/-7.82	-8.49/-10.44	-15.26/-15.62	-15.13/-11.06	-12.79/-10.04	-13.14/-13.83	-11.05/-13.01	-13.83/-15.30	-8.19/-8.55	-6.69/-9.27
Θ(150°)	-14.00/-11.09	-8.00/-8.25	-8.52/-9.95	-8.93/-8.78	-7.77/-6.54	-8.55/-7.19	-8.16/-9.07	-7.15/-7.96	-9.66/-9.08	-10.35/-12.47	-11.77/-10.98	-9.98/-9.18	-10.12/-11.81	-12.24/-9.79	-9.89/-9.41	-10.53/-10.75	-10.53/-12.11	-8.47/-7.67	-10.55/-11.86	-10.97/-13.16	-13.81/-16.05	-15.48/-15.07	-14.65/-12.41	-10.01/-8.74
Θ(157.5°)	-15.45/-12.74	-12.28/-14.26	-12.36/-9.10	-7.67/-7.61	-8.42/-8.11	-8.10/-9.33	-11.42/-10.10	-8.10/-8.86	-11.42/-11.14	-9.97/-10.49	-10.71/-9.85	-10.22/-12.51	-11.58/-15.29	-14.86/-12.14	-12.70/-12.11	-10.20/-9.88	-10.58/-10.47	-8.76/-9.27	-12.06/-14.26	-15.11/-14.19	-13.94/-15.22	-15.57/-15.43	-14.95/-14.55	-15.87/-15.58
Θ(165°)	-11.40/-13.09	-15.22/-15.36	-13.11/-11.96	-11.40/-10.38	-8.93/-8.54	-8.59/-9.66	-9.51/-9.35	-9.16/-8.81	-9.20/-10.02	-9.73/-8.50	-7.55/-9.00	-10.59/-12.01	-10.47/-11.21	-14.04/-15.96	-15.50/-13.11	-14.08/-15.58	-14.15/-11.18	-10.22/-10.54	-11.44/-12.67	-13.53/-13.57	-12.91/-14.94	-15.04/-14.37	-14.11/-13.92	-15.27/-12.25
Θ(172.5°)	-15.79/-15.36	-12.13/-10.46	-10.23/-9.78	-9.18/-9.16	-9.66/-9.80	-9.32/-9.80	-8.51/-8.60	-9.02/-9.93	-11.15/-14.22	-14.06/-13.94	-13.47/-13.84	-13.04/-12.36	-12.16/-11.22	-12.98/-13.04	-14.09/-14.71	-15.98/-15.10	-13.30/-13.20	-13.85/-15.52	-14.85/-14.71	-15.49/-16.26	-14.06/-12.47	-12.54/-13.33	-14.50/-13.33	-14.26/-15.40
Θ(180°)	-14.71/-11.74	-12.20/-11.65	-12.39/-12.47	-11.34/-11.37	-11.80/-12.39	-12.33/-11.92	-11.85/-11.13	-10.72/-10.89	-9.87/-10.28	-9.87/-9.85	-10.24/-11.67	-12.35/-10.96	-11.06/-11.16	-11.09/-12.54	-13.57/-13.59	-13.43/-14.30	-12.63/-12.97	-13.43/-14.30	-13.23/-11.65	-11.04/-10.97	-13.32/-11.94	-11.93/-12.27	-13.26/-14.42	-14.10/-13.91
Freq(Hz)	6.4750Pol.	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°)	4.27/4.57	4.69/4.70	4.76/4.75	4.66/4.60	4.53/4.59	4.64/4.57	4.36/4.09	3.95/3.91	3.80/3.59	3.39/3.24	3.32/3.51	3.57/3.67	3.81/3.81	3.92/4.08	4.07/3.89	3.67/3.61	3.62/3.72	3.68/3.59	3.59/3.63	3.42/3.21	3.33/3.65	3.74/3.61	3.90/4.28	4.23/4.02
Θ(7.5°)	2.19/2.68	3.19/3.45	3.55/3.62	3.58/3.53	3.62/3.87	4.18/4.28	4.37/4.29	4.31/4.44	4.39/4.32	4.22/4.13	4.05/3.86	3.91/4.10	4.04/4.07	4.17/4.39	4.53/4.46	4.49/4.54	4.66/4.73	4.74/4.75	4.67/4.49	4.06/3.33	2.92/2.59	2.28/1.86	1.65/1.71	2.14/2.29
Θ(15°)	2.37/2.14	2.46/2.67	2.78/2.79	2.68/2.37	2.24/2.58	3.68/3.75	3.92/4.30	4.48/4.45	4.03/3.16	2.55/2.04	1.81/1.77	2.14/3.06	3.48/3.43	3.86/3.73	3.25/3.00	2.59/2.02	2.00/2.66	3.15/3.51	3.02/2.29	1.35/0.58	0.94/1.62	2.04/3.23	2.60/2.76	
Θ(22.5°)	0.92/1.66	2.72/3.52	4.14/4.43	4.23/3.72	2.75/1.90	2.16/3.43	4.47/4.79	4.65/4.36	4.28/4.04	3.19/2.36	2.41/3.26	4.03/4.13	4.17/4.38	4.47/4.25	4.34/4.59	4.79/4.99	5.05/4.72	4.26/3.73	3.57/3.44	3.21/2.67	1.80/1.61	2.28/2.51	2.00/1.64	1.01/0.39
Θ(30°)	2.50/3.16	3.66/3.71	3.40/3.24	3.48/4.12	4.29/3.72	2.50/1.79	2.68/3.78	3.84/2.90	2.81/3.53	3.63/3.47	3.72/4.12	3.76/3.08	2.31/2.30	2.86/3.31	3.85/4.20	4.14/3.28	2.69/3.12	4.00/4.35	3.23/1.59	1.26/1.50	1.37/2.18	3.20/3.31	2.37/1.07	0.80/1.69
Θ(37.5°)	3.40/4.83	5.29/4.91	4.18/3.29	2.34/1.85	2.10/2.61	2.73/1.92	0.33/2.06	2.98/1.01	0.91/2.47	2.83/2.77	2.77/2.94	3.18/3.02	2.29/1.37	1.03/1.15	1.82/2.90	3.34/3.75	3.23/2.47	1.95/3.54	3.85/1.41	-0.13/0.57	0.36/2.32	3.83/3.52	2.73/1.95	0.60/1.04
Θ(45°)	3.48/3.26	2.92/3.48	4.58/4.94	4.48/3.20	2.36/1.05	0.58/0.29	-2.11/-0.47	1.40/-0.19	-0.19/0.88	0.75/0.35	-0.20/0.75	2.05/2.12	1.11/0.99	2.58/3.61	3.27/2.72	1.57/2.41	3.39/3.79	2.32/0.57	2.06/0.34	-1.38/0.23	0.63/2.43	1.79/1.31	1.32/2.65	
Θ(52.5°)	2.65/2.17	1.72/3.12	4.46/4.33	3.19/1.63	0.99/0.51	0.08/-1.28	-2.90/-1.14	0.12/-0.73	-0.88/-1.35	-0.26/-0.48	-2.05/-2.02	1.63/2.94	3.17/3.33	4.47/5.32	4.98/4.44	3.23/2.31	1.36/2.06	2.12/0.35	0.66/-0.47	-2.93/-2.39	-2.63/1.33	2.58/1.21	1.04/0.36	0.89/2.67
Θ(60°)	-0.83/-0.79	1.73/1.56	1.42/1.35	1.02/-0.11	-2.45/-1.26	1.10/-1.63	-3.03/-2.80	-1.62/-1.32	-2.16/-2.45	-0.06/0.19	-2.85/-2.01	0.71/3.55	4.09/4.17	4.06/4.30	4.16/4.80	3.88/2.09	0.61/-0.50	1.37/-0.07	-1.08/-2.26	-4.03/-3.39	-4.82/-1.80	0.84/0.21	-0.19/-0.66	-0.69/0.46
Θ(67.5°)	-3.97/-1.97	0.83/-0.04	0.46/2.21	2.40/1.55	-1.17/-2.90	1.27/-1.62	-2.01/-2.44	-2.69/-3.49	-4.22/-4.73	-0.89/-1.58	-4.99/-2.44	0.98/3.95	4.32/3.65	3.07/3.80	3.86/4.45	3.36/1.78	1.07/0.67	0.89/0.72	0.62/-0.50	-3.59/-4.53	-6.91/-2.77	-1.19/-1.53	-0.56/0.75	1.57/0.35
Θ(75°)	-1.58/-0.99	-0.03/-1.31	2.66/3.33	2.55/2.23	0.95/-3.22	0.55/-0.10	-2.16/-1.61	-3.29/-0.66	-8.16/-8.62	-5.76/-4.														

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

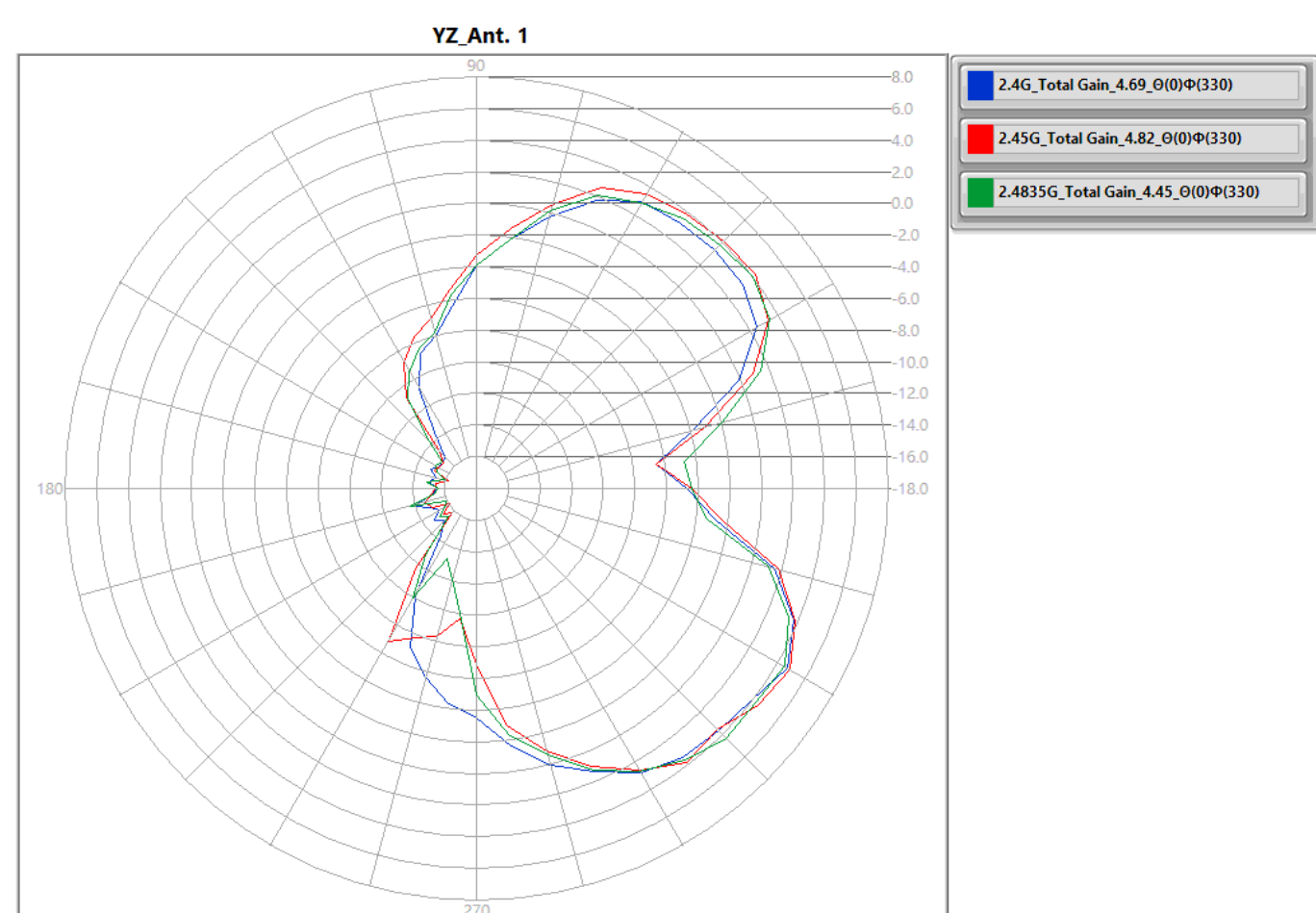
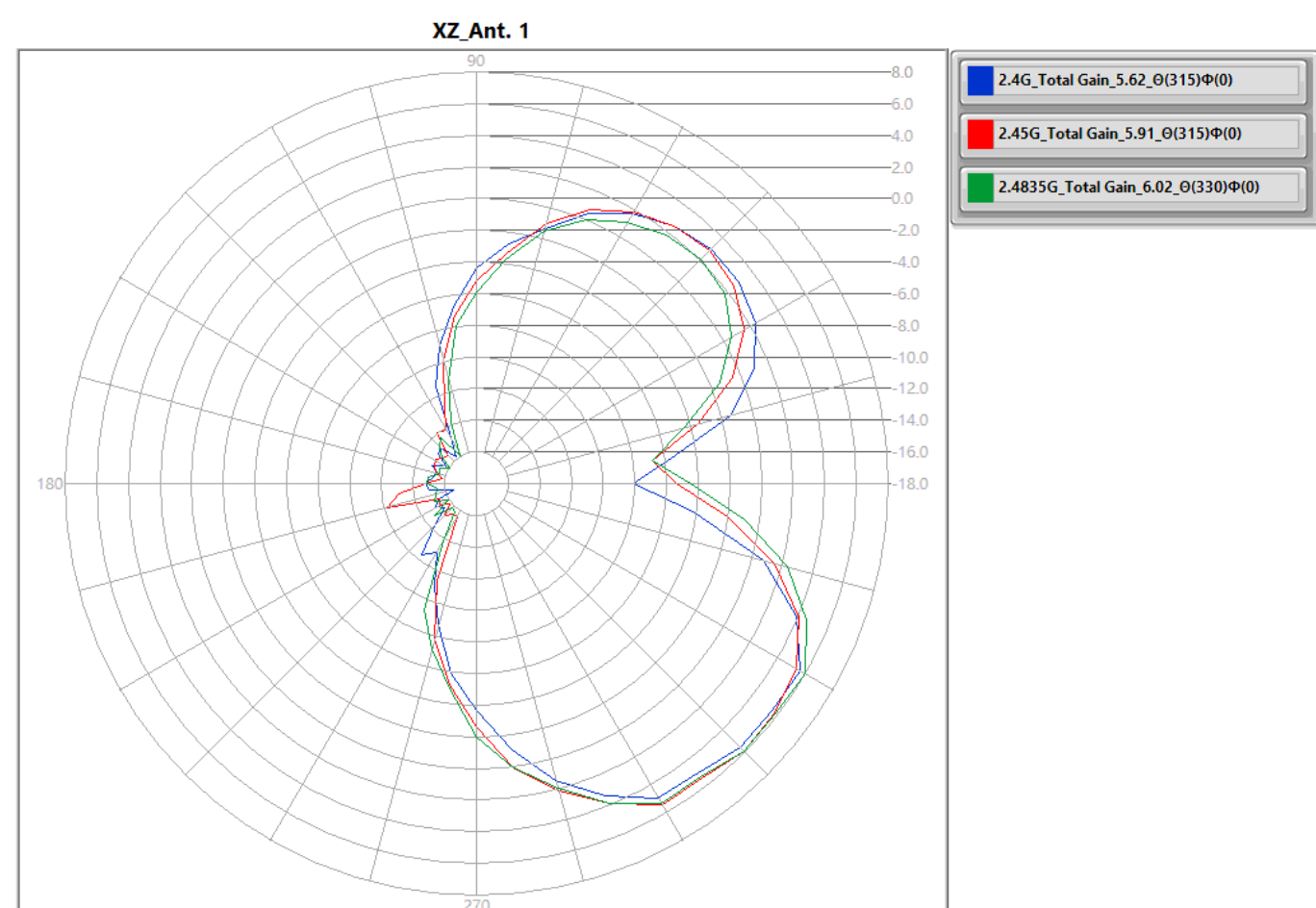
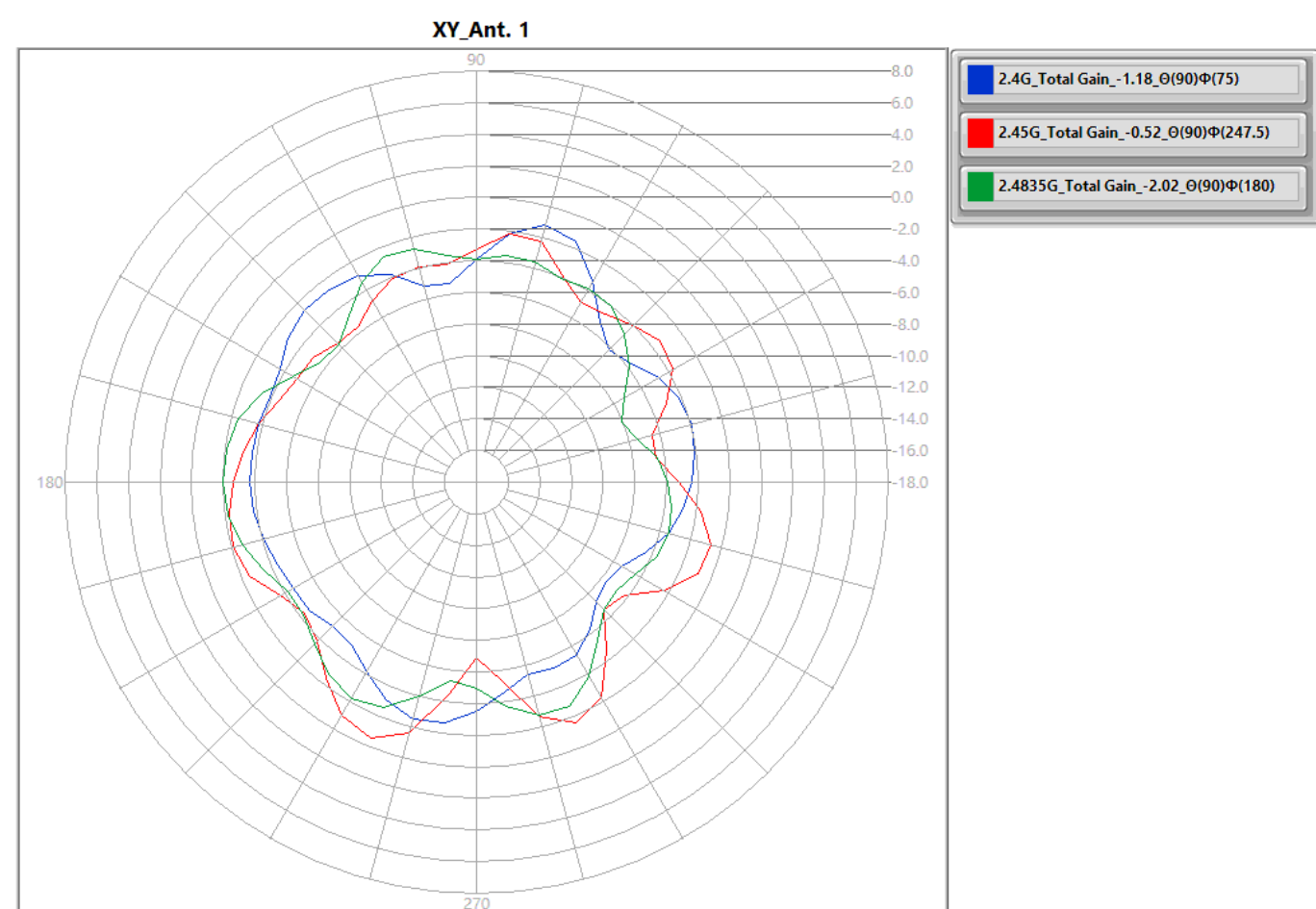




Total Gain Data

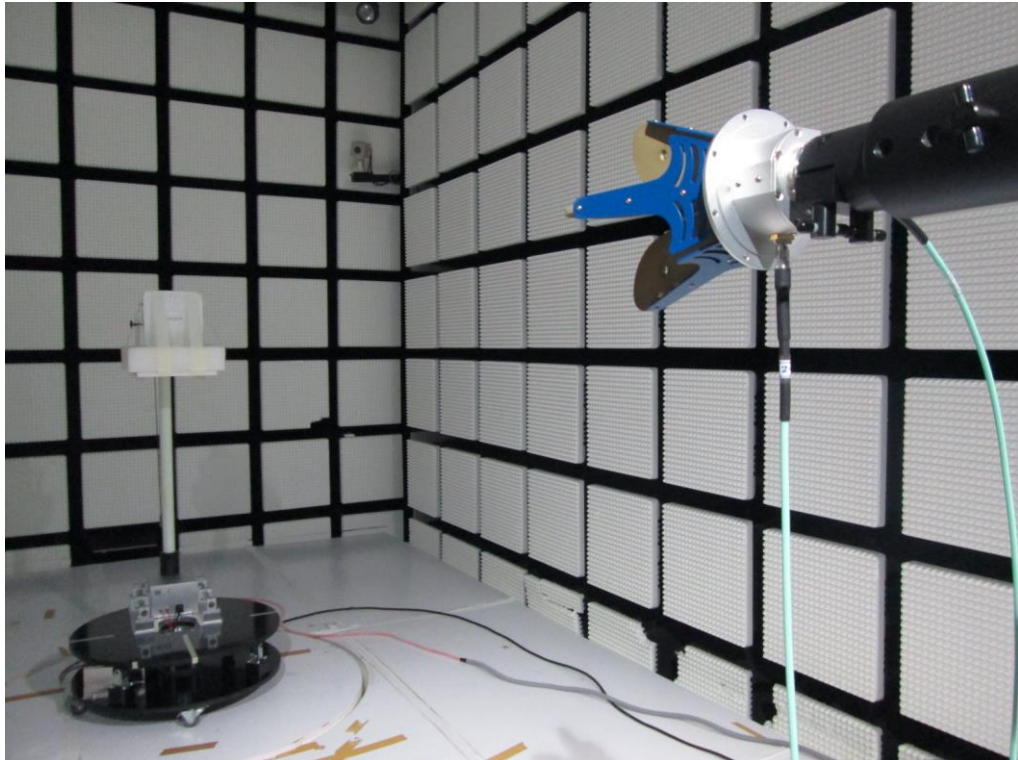
Freq(Hz)	24GPol.	TotalAnt. 1	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	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°)
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°)	-8.10/-7.64	-7.09/-6.60	-6.14/-5.71	-5.41/-5.09	-4.85/-4.71	-4.65/-4.66	-4.74/-4.85	-4.89/-5.07	-5.28/-5.45	-5.62/-5.76	-5.89/-6.09	-6.38/-6.64	-6.83/-6.89	-6.92/-6.96	-6.97/-6.96	-6.88/-6.77	-6.67/-6.57	-6.34/-6.41	-7.39/-7.61	-7.86/-8.13	-8.40/-8.77	-9.04/-8.77	-8.58/-8.67	-8.59/-8.33		
Θ(7.5°)	-5.59/-5.90	-6.09/-6.17	-6.25/-6.31	-6.28/-6.21	-6.17/-6.24	-6.36/-6.48	-6.58/-6.64	-6.64/-6.53	-6.32/-6.07	-5.81/-5.54	-5.27/-5.03	-4.73/-4.45	-4.20/-4.01	-3.87/-3.71	-3.51/-3.32	-3.13/-3.02	-2.86/-2.76	-2.70/-2.70	-2.75/-2.82	-2.90/-3.04	-3.21/-3.43	-3.67/-3.94	-4.22/-4.52	-4.84/-5.20		
Θ(15°)	-1.43/-1.68	-1.92/-2.14	-2.40/-2.67	-2.90/-3.13	-3.35/-3.60	-3.81/-3.90	-3.83/-3.59	-3.24/-2.76	-2.15/-1.50	-0.91/-0.45	-0.11/0.19	0.44/0.64	0.74/0.76	0.71/0.66	0.67/0.73	0.83/0.95	1.09/1.19	1.34/1.44	1.48/1.48	1.39/1.29	1.12/0.91	0.67/0.31	-0.04/-0.38	-0.75/-1.12		
Θ(22.5°)	1.01/0.88	0.79/0.70	0.61/0.48	0.38/0.28	0.16/0.03	-0.14/0.13	-0.03/0.19	0.51/0.94	1.47/2.02	2.53/2.93	3.27/3.53	3.73/3.84	3.84/3.76	3.63/3.49	3.38/3.33	3.32/3.36	3.42/3.49	3.59/3.66	3.69/3.66	3.59/3.45	3.30/3.09	2.83/2.52	2.12/1.73	1.38/1.15		
Θ(30°)	2.34/2.42	2.52/2.59	2.63/2.68	2.73/2.75	2.72/2.62	2.50/2.44	2.42/2.55	2.82/3.21	3.67/4.10	4.50/4.83	5.11/5.34	5.50/5.60	5.62/5.58	5.45/5.29	5.08/4.89	4.76/4.67	4.64/4.63	4.65/4.68	4.69/4.66	4.58/4.44	4.29/4.10	3.88/3.56	3.18/2.78	2.46/2.31		
Θ(37.5°)	2.91/3.09	3.30/3.48	3.67/3.83	3.96/4.03	4.00/3.82	3.58/3.36	3.21/3.27	3.61/4.13	4.64/5.07	4.43/4.72	4.98/5.20	5.37/5.47	5.53/5.52	5.39/5.16	4.86/4.58	4.34/4.16	4.05/3.99	3.95/3.90	3.89/3.86	3.76/3.61	3.43/3.23	4.01/3.74	3.42/3.07	2.83/2.77		
Θ(45°)	2.93/3.17	3.48/3.77	4.03/4.25	4.41/4.45	4.38/4.18	3.90/3.56	3.25/3.17	3.49/4.03	4.63/4.12	4.46/4.70	4.95/5.17	5.35/5.51	5.62/5.65	5.53/5.24	4.86/4.52	4.22/4.05	3.94/3.86	3.76/3.66	3.59/3.55	3.50/3.39	3.19/3.92	3.68/3.49	3.26/3.03	2.85/2.81		
Θ(52.5°)	2.50/2.75	3.08/3.41	3.70/3.89	3.99/4.02	4.00/3.95	3.78/3.49	3.11/2.88	3.00/3.43	4.00/4.21	4.34/4.55	4.26/4.52	4.71/4.90	5.04/5.06	4.89/4.54	4.11/3.73	3.48/3.39	3.37/3.36	3.23/3.05	3.38/3.32	3.31/3.30	3.09/3.10	3.03/2.87	2.71/2.60	2.46/2.41		
Θ(60°)	1.70/1.91	2.28/2.61	2.82/2.93	2.94/2.98	3.15/3.38	3.49/3.30	2.87/2.43	2.30/2.46	2.91/3.39	3.71/3.84	3.97/4.19	4.46/4.71	4.92/4.98	4.83/4.50	4.03/3.59	3.28/3.23	3.35/3.45	3.36/3.07	2.75/2.58	2.60/2.62	2.40/2.05	1.69/1.54	1.51/1.63	1.69/1.67		
Θ(67.5°)	0.43/0.67	1.04/1.31	1.39/1.32	1.25/1.38	1.86/2.43	2.67/2.39	1.73/1.12	0.95/1.16	1.55/1.98	2.22/2.24	2.27/2.55	2.85/3.13	3.33/3.36	3.19/2.84	2.39/1.91	1.59/1.65	2.00/2.27	2.20/1.82	1.37/1.15	1.19/1.22	0.89/0.28	-0.27/0.53	-0.44/-0.15	0.20/0.34		
Θ(75°)	-1.32/-1.03	-0.65/-0.45	-0.51/-0.81	-1.04/-0.76	0.15/1.15	1.41/0.85	-0.28/-1.21	-1.22/-0.62	-0.07/0.35	0.55/0.52	0.53/0.77	1.08/1.31	1.40/1.37	1.26/0.99	0.56/0.13	-0.20/-0.08	0.47/0.96	1.08/0.73	0.12/-0.36	-0.36/-0.28	-0.61/-1.45	-2.32/-2.63	-2.56/-2.16	-1.70/-1.47		
Θ(82.5°)	-2.76/-2.46	-2.20/-2.20	-2.57/-3.21	-3.59/-3.02	-1.55/-0.08	0.26/-0.57	-2.13/-3.33	-3.07/-2.05	-1.37/-1.02	-0.92/-1.10	-1.30/-1.20	-1.01/-0.96	-1.01/-1.09	-1.27/-1.56	-1.88/-2.20	-2.46/-2.23	-1.41/-0.62	-0.40/-0.80	-1.64/-2.40	-2.48/-2.21	-2.43/-3.30	-4.15/-4.46	-4.33/-3.85	-3.25/-3.03		
Θ(90°)	-4.42/-4.09	-3.89/-4.12	-4.75/-5.74	-6.12/-5.21	-3.31/-1.55	-1.18/-2.16	-3.93/-5.33	-5.15/-3.82	-2.96/-2.72	-2.63/-3.00	-3.65/-3.87	-3.72/-3.69	-4.06/-4.40	-4.63/-4.70	-5.36/-5.03	-4.16/-3.08	-2.51/-2.67	-3.53/-4.64	-5.42/-5.25	-5.36/-6.28	-7.35/-7.69	-7.44/-6.38	-5.44/-4.82			
Θ(97.5°)	-6.74/-6.22	-5.99/-6.55	-7.62/-8.58	-8.61/-7.35	-5.09/-3.30	-3.02/-4.40	-6.36/-7.78	-7.66/-6.26	-5.12/-4.48	-3.92/-4.30	-5.17/-5.50	-5.66/-5.83	-5.90/-6.17	-6.41/-6.49	-6.13/-5.73	-5.88/-6.29	-5.91/-4.98	-4.32/-3.90	-4.31/-5.54	-7.24/-7.94	-8.38/-9.25	-10.15/-10.91	-11.19/-10.47	-8.72/-7.52		
Θ(105°)	-9.04/-8.38	-8.13/-9.22	-10.98/-11.99	-11.33/-10.07	-7.50/-5.39	-5.03/-6.43	-7.99/-9.00	-10.05/-9.39	-8.12/-6.78	-5.43/-4.47	-6.42/-7.28	-7.87/-8.30	-8.71/-9.02	-9.30/-9.23	-8.83/-7.88	-8.04/-8.46	-9.20/-8.84	-7.50/-6.07	-5.68/-6.81	-9.02/-11.01	-11.60/-11.80	-11.66/-11.74	-12.27/-12.33	-11.06/-9.92		
Θ(112.5°)	-11.36/-10.82	-10.71/-12.02	-14.01/-13.49	-12.14/-11.57	-9.78/-7.55	-6.93/-8.17	-8.78/-9.20	-10.79/-11.88	-10.80/-8.51	-6.79/-6.76	-7.75/-8.72	-9.47/-10.46	-11.06/-11.61	-11.84/-11.72	-10.51/-9.48	-9.05/-9.55	-11.11/-12.29	-10.56/-8.01	-7.10/-7.98	-9.91/-12.25	-13.48/-13.06	-12.36/-12.56	-13.35/-13.67	-12.91/-11.73		
Θ(120°)	-14.96/-15.54	-15.43/-15.18	-15.40/-16.24	-14.32/-14.26	-13.16/-10.87	-10.05/-10.54	-10.72/-10.93	-12.58/-14.70	-13.80/-11.20	-8.75/-8.34	-8.57/-9.16	-10.52/-11.86	-12.96/-13.40	-13.70/-13.86	-12.86/-11.22	-10.34/-10.27	-11.42/-13.26	-13.94/-11.50	-10.23/-10.65	-11.87/-12.80	-13.31/-12.63	-12.18/-12.29	-13.13/-13.80	-14.43/-14.78		
Θ(127.5°)	-15.84/-15.21	-16.21/-15.35	-15.24/-14.01	-14.43/-15.15	-15.76/-14.54	-13.09/-13.73	-13.58/-13.12	-12.96/-13.61	-14.46/-12.94	-11.00/-9.96	-9.66/-10.41	-11.48/-12.28	-12.28/-13.17	-14.10/-14.89	-14.17/-13.01	-12.23/-11.48	-11.79/-13.03	-14.59/-15.03	-14.24/-15.63	-15.67/-15.55	-14.23/-13.60	-13.32/-13.11	-13.29/-13.55	-13.95/-14.22		
Θ(135°)	-14.78/-15.51	-15.54/-15.65	-15.28/-15.47	-15.44/-15.71	-15.18/-15.64	-15.11/-15.46	-15.14/-14.06	-12.44/-12.30	-13.12/-13.67	-13.52/-12.52	-11.94/-12.40	-12.91/-13.66	-14.20/-15.13	-15.01/-15.25	-15.42/-15.88	-13.93/-13.13	-12.62/-12.99	-14.20/-15.57	-15.10/-15.03	-16.13/-15.63	-14.18/-13.52	-13.65/-14.13	-14.01/-14.59	-14.91/-15.16		
Θ(142.5°)	-14.77/-15.34	-14.94/-14.70	-14.62/-15.41	-15.83/-15.74	-15.69/-15.89	-15.06/-15.30	-15.34/-13.44	-11.84/-11.97	-12.74/-13.30	-14.36/-13.93	-14.53/-14.75	-14.58/-14.91	-15.49/-15.50	-15.38/-15.48	-15.47/-15.12	-14.10/-13.26	-12.96/-13.45	-15.20/-14.56	-14.70/-15.35	-15.63/-14.36	-14.25/-14.43	-14.56/-15.26	-15.78/-15.52			
Θ(150°)	-15.78/-15.25	-14.78/-15.05	-15.63/-15.99	-15.05/-15.27	-14.76/-15.74	-15.99/-15.17	-15.22/-15.20	-13.84/-13.15	-13.21/-13.66	-14.04/-14.89	-15.39/-15.80	-15.22/-15.11	-15.06/-14.67	-13.72/-13.68	-13.88/-14.29	-14.23/-14.31	-13.95/-14.50	-15.92/-15.12	-15.26/-15.19	-15.30/-14.76	-15.59/-14.72	-15.84/-15.98	-15.66/-15.59	-15.24/-15.15		
Θ(157.5°)	-14.97/-16.18	-15.03/-15.67	-15.36/-15.29	-15.73/-15.98	-14.99/-15.19	-14.50/-15.48	-14.85/-15.55	-15.19/-15.60	-14.59/-15.05	-15.94/-15.72	-15.78/-15.05	-15.33/-15.04	-15.51/-14.81	-15.39/-15.53	-15.38/-16.18	-15.44/-15.16	-15.34/-15.12	-15.20/-15.31	-14.84/-14.20	-13.85/-13.92	-13.54/-13.97	-14.47/-15.33	-14.88/-15.51	-14.85/-15.43		
Θ(165°)	-15.53/-15.99	-15.89/-15.60	-15.15/-15.58	-15.07/-14.67	-13.91/-14.32	-15.29/-16.13	-15.35/-15.71	-15.03/-15.07	-15.28/-15.63	-15.60/-14.96	-15.23/-14.88	-15.77/-14.99	-16.49/-15.24	-15.65/-14.51	-15.28/-15.49	-14.93/-15.51	-15.78/-15.35	-15.13/-14.09	-13.80/-13.34	-12.94/-12.97	-14.30/-14.39	-15.62/-15.43	-15.80/-15.79	-15.45/-16.13		
Θ(172.5°)	-15.21/-15.26	-14.96/-15.12	-14.91/-15.51	-15.80/-15.08	-15.22/-14.77	-14.82/-15.56	-14.97/-15.25	-15.48/-15.40	-14.29/-14.44	-14.16/-14.71	-14.38/-14.69	-14.90/-15.62	-15.00/-15.19	-15.14/-15.54	-14.64/-15.68	-14.70/-16.24	-15.21/-15.32	-16.10/-15.01	-15.15/-15.96	-15.59/-15.44	-15.68/-15.46	-14.41/-14.72	-15.84/-15.43	-15.12/-15.64		
Θ(180°)	-14.76/-15.25	-14.62/-14.72	-14.84/-15.13	-15.36/-15.00	-15.40/-15.23	-15.79/-15.56	-15.52/-14.83	-15.28/-14.96	-14.84/-14.95	-15.33/-15.08	-15.69/-15.11	-15.84/-15.08	-14.69/-15.25	-15.29/-15.53	-15.11/-14.75	-14.98/-15.42	-16.22/-15.86	-14.96/-15.61	-14.91/-15.10	-15.61/-15.82	-15.42/-16.01	-15.40/-14.71	-15.15/-15.54	-15.34/-15.19		
Freq(Hz)	2.45GPol.	TotalAnt. 1	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°)
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°)	-5.37/-5.05	-4.81/-4.54	-4.36/-4.28	-4.23/-4.21	-4.21/-4.19	-4.18/-4.26	-4.39/-4.54	-4.56/-4.72	-4.86/-4.91	-4.94/-4.94	-4.96/-5.03	-5.19/-5.35	-5.48/-5.49	-5.53/-5.59	-5.72/-5.84	-6.00/-6.18	-6.32/-6.57	-6.72/-6.85	-7.05/-7.27	-7.48/-7.61	-7.61/-7.46	-7.23/-7.03	-6.82/-6.52	-6.10/-5.65		
Θ(7.5°)	-6.76/-6.61	-6.59/-6.62	-6.79/-6.86	-7.03/-7.14	-7.12/-6.98	-6.79/-6.66	-6.56/-6.28	-5.93/-5.53	-5.06/-4.57	-4.12/-3.66	-3.18/-2.74	-2.46/-2.23	-2.01/-1.77	-1.51/-1.30	-1.13/-1.06	-1.04/-1.13	-1.24/-1.42	-1.66/-1.94	-2.27/-2.71	-2.71/-2.71	-2.30/-2.47	-5.25/-5.70	-6.10/-6.38	-6.56/-6.69		
Θ(15°)	-3.53/-4.30	-3.22/-3.07	-3.03/-3.04	-3.08/-3.06	-3.03/-3.00	-2.99/-3.00	-3.06/-3.09	-3.06/-2.70	-2.20/-1.69	-1.17/-0.62	-0.05/0.52	0.96/1.25	1.49/1.71	1.96/2.20	2.43/2.60	2.67/2.66	2.59/2.43	2.24/2.02	1.71/1.40	0.99/0.51	-0.05/-0.66	-1.23/-1.86	-2.39/-2.85	-3.24/-3.46		
Θ																										

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

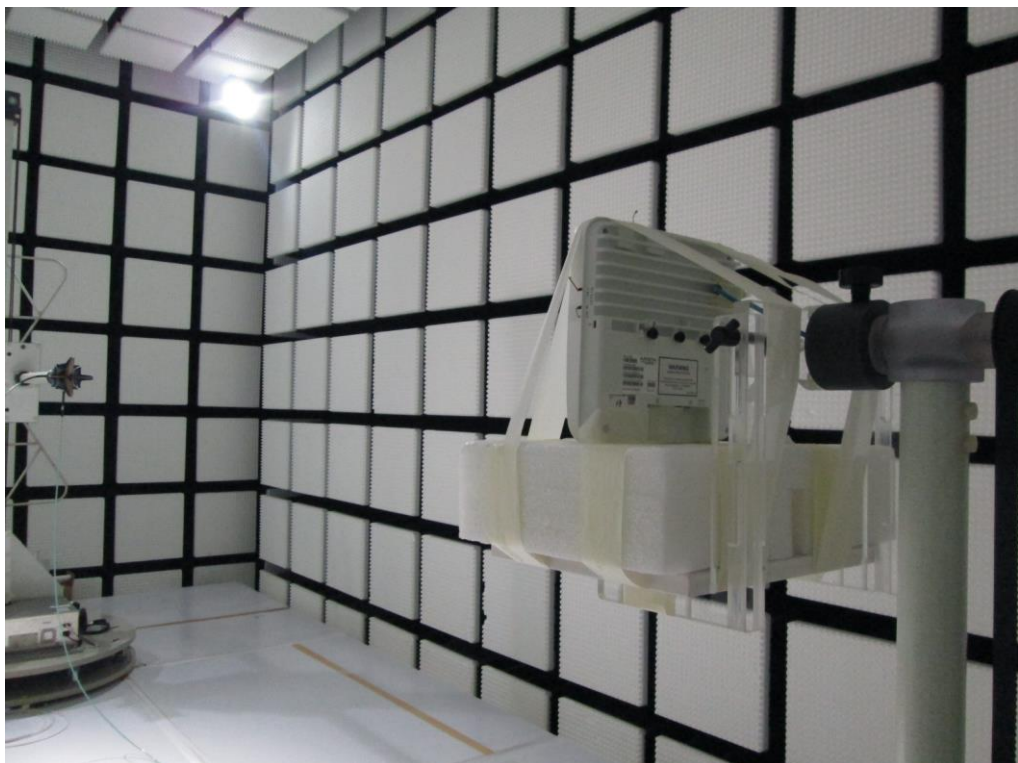


1. Photographs of Radiated Emissions Test Configuration

Front View



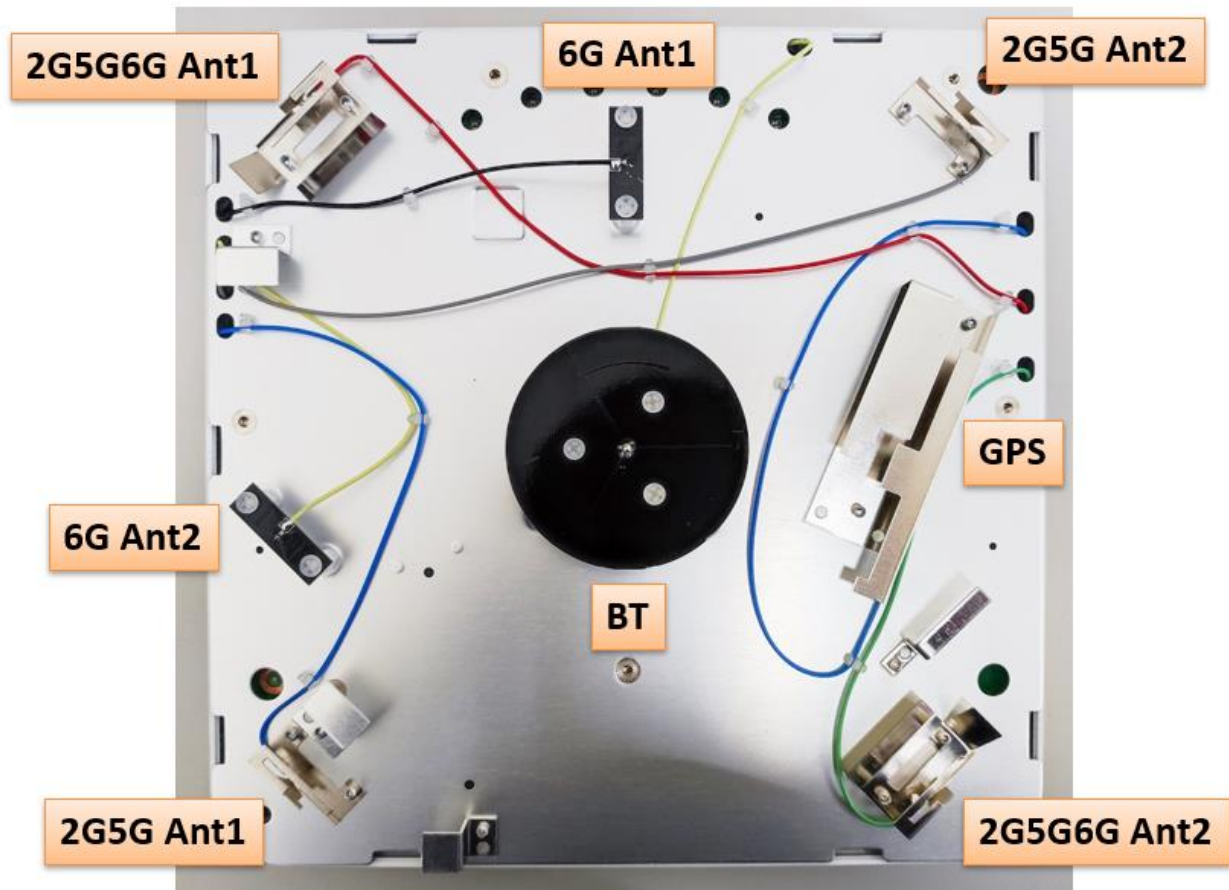
Rear View



EUT take a close-up



2. Antenna Configuration Diagram of EUT



————THE END————