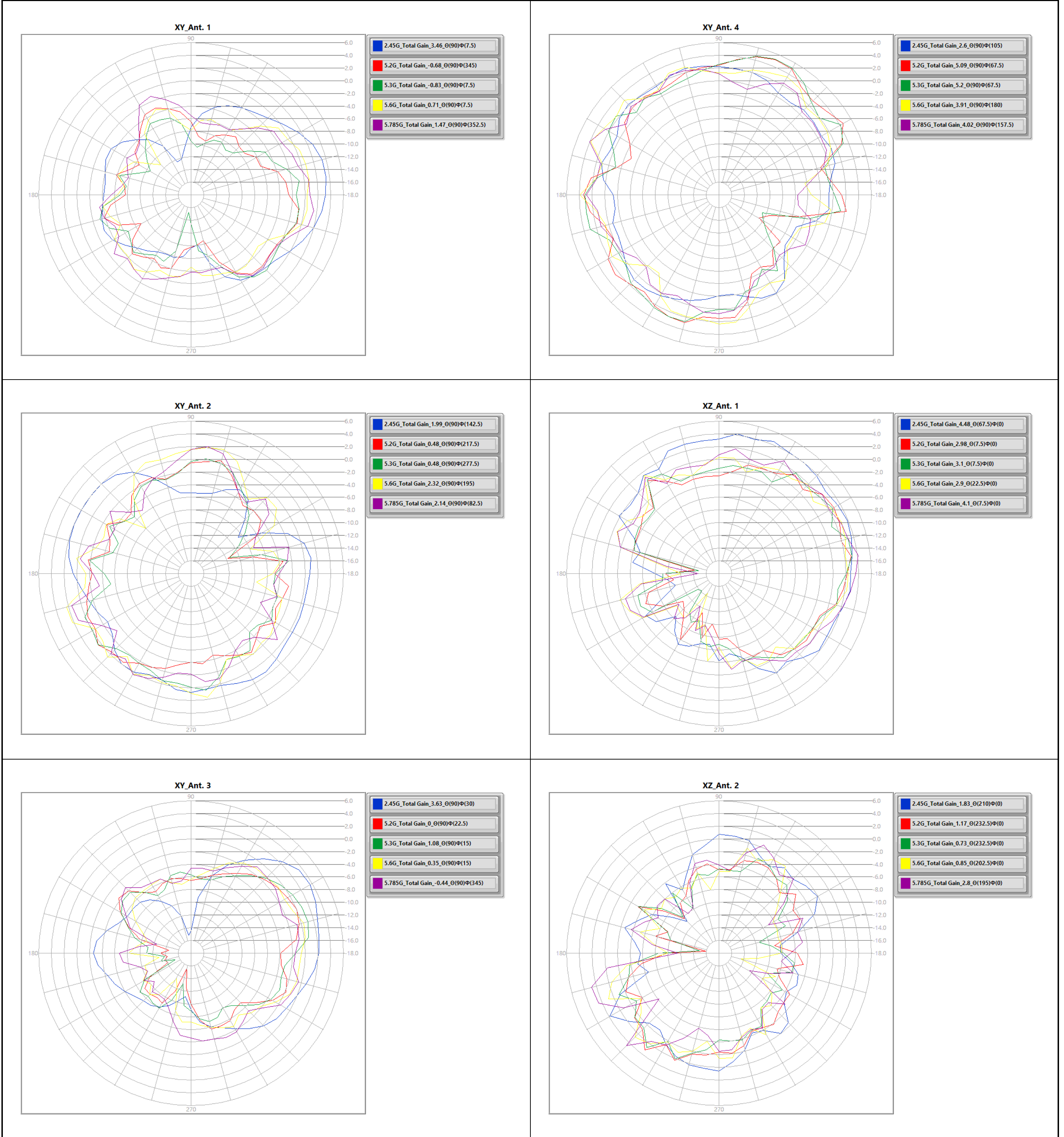
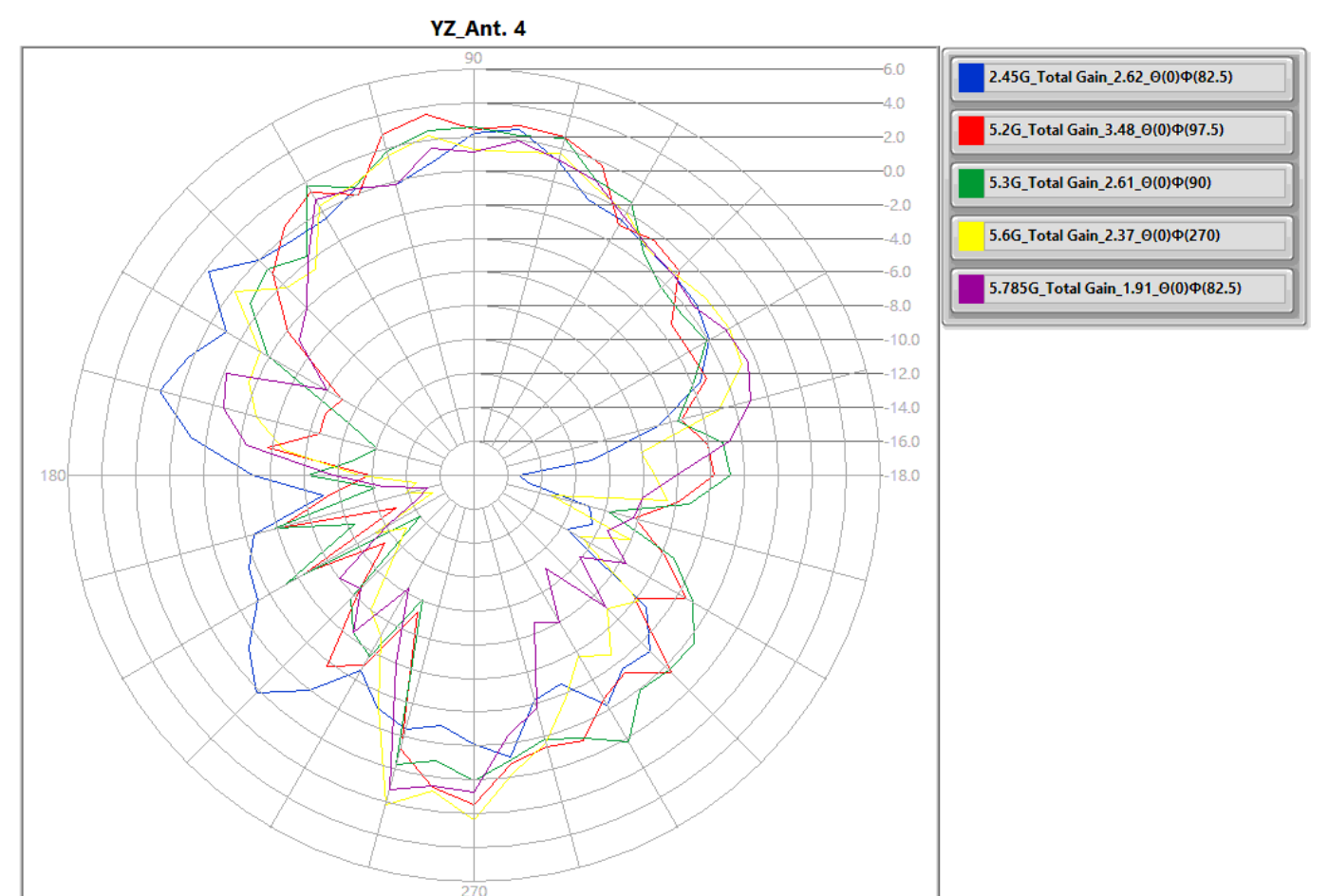
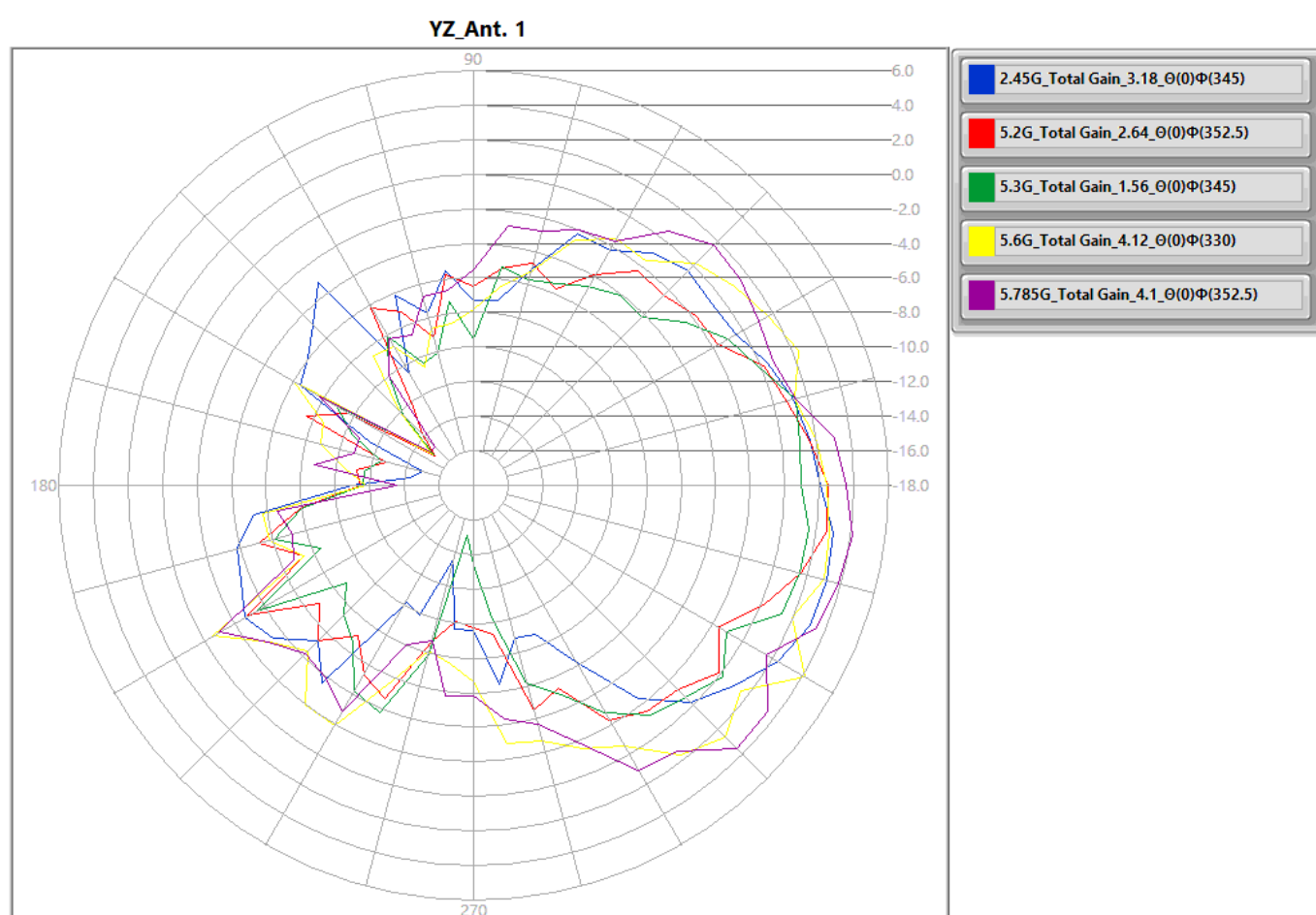
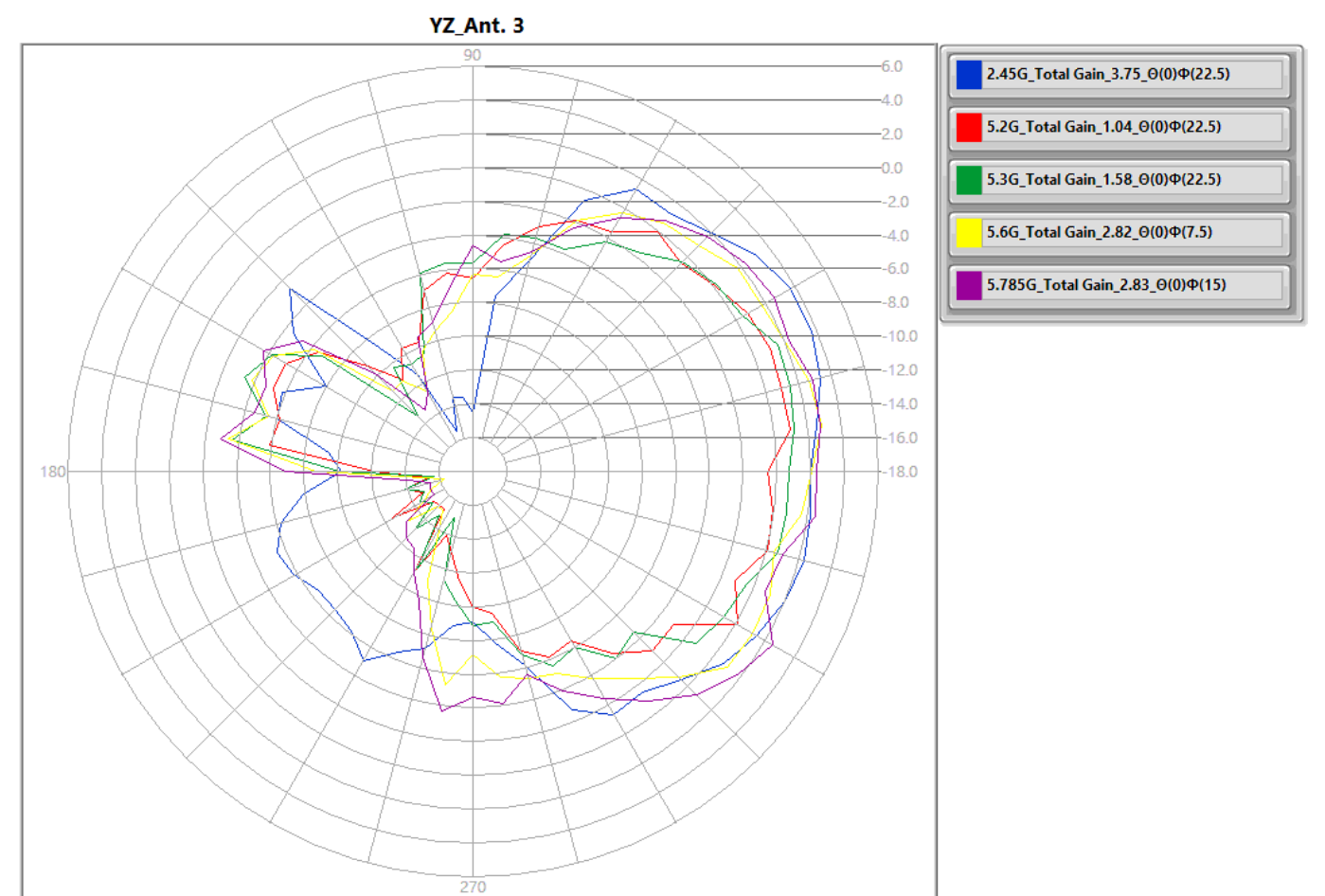
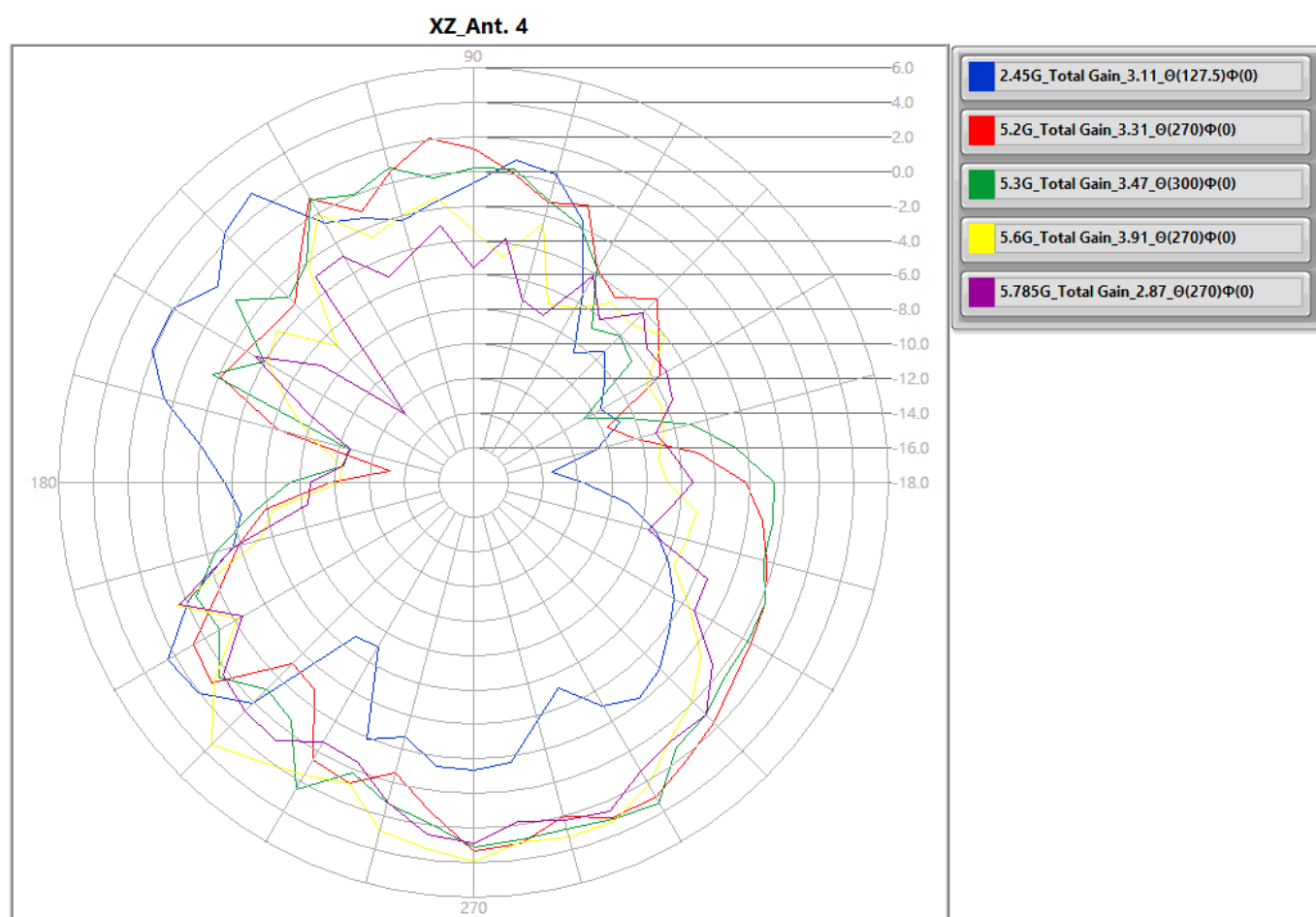
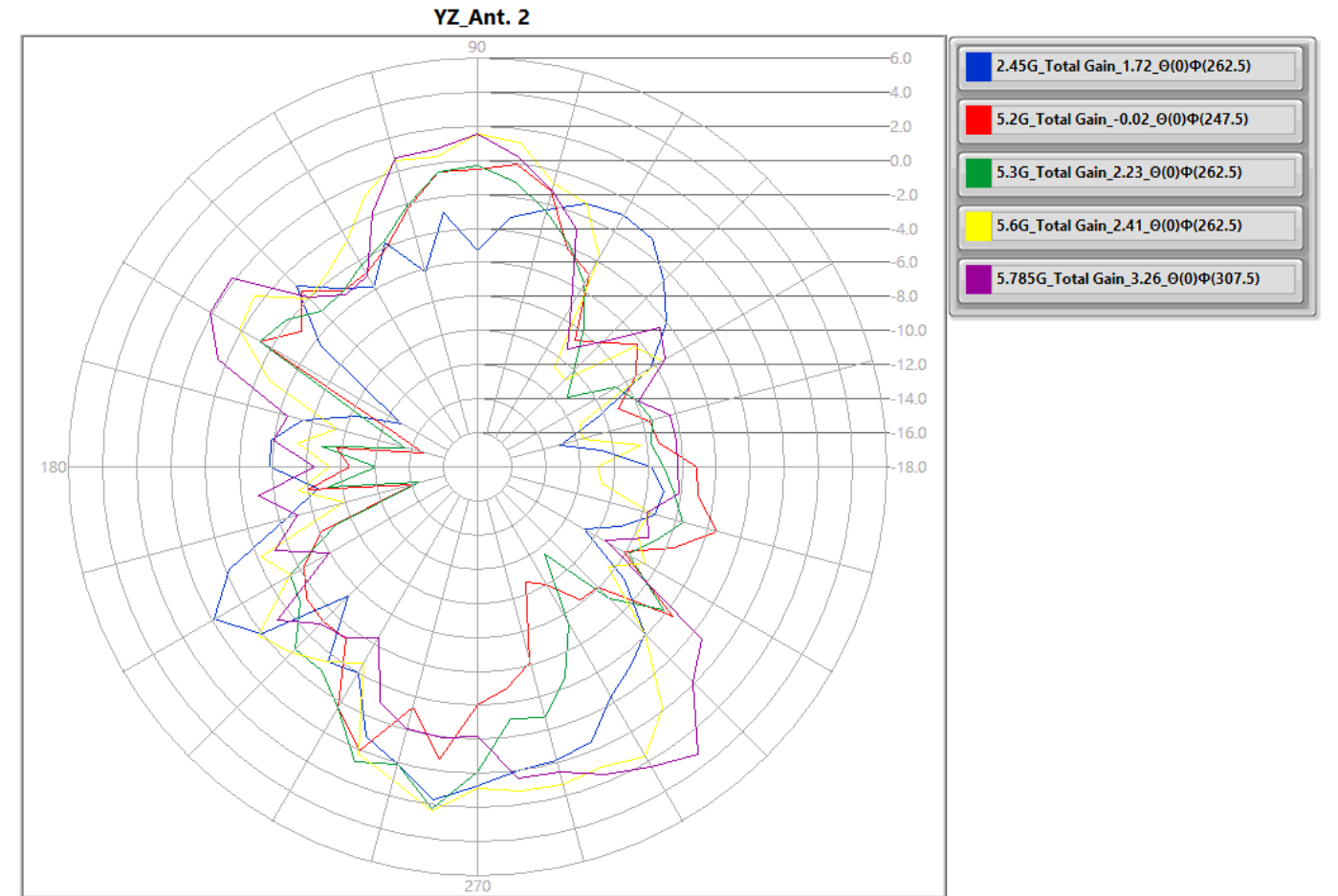
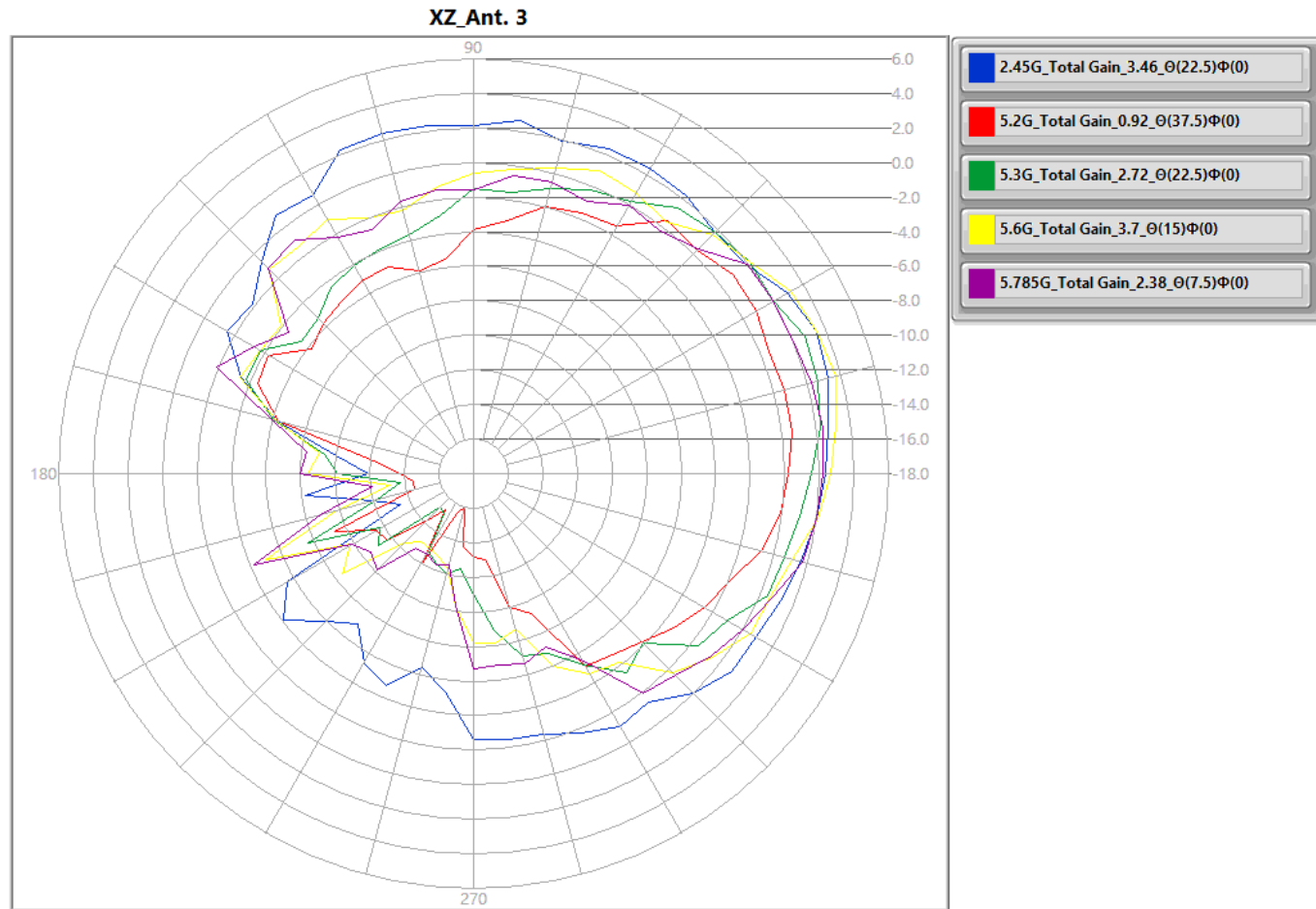


E1(XY plane) – $\Theta(90)\Phi(0-360)$
 E2(XZ plane) – $\Theta(0-180)\Phi(0)$ and $\Theta(0-180)\Phi(180)$
 E3(YZ plane) – $\Theta(0-180)\Phi(90)$ and $\Theta(0-180)\Phi(270)$







Antenna Pattern of 6GHz

Appendix D

Total Gain Data

Freq(Hz)	6.175GPol.	TotalAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-1.55/-1.88	-1.95/-1.53	-1.32/-0.79	-0.83/-1.00	-1.31/-1.27	-1.10/-1.15	-1.57/-1.99	-2.30/-2.42	-2.42/-2.27	-2.06/-1.53	-0.77/-0.37	-0.45/-0.48	-0.72/-1.14	-1.71/-2.09	-2.09/-1.98	-1.93/-1.44	-1.53/-1.80	-2.05/-2.10	-1.95/-2.07	-1.92/-1.95	-2.23/-2.50	-2.39/-2.14	-2.01/-1.82	-1.60/-1.38
Θ(7.5°)	-0.95/-0.46	0.050/-0.46	0.800/-0.88	0.750/0.53	0.580/0.86	1.100/0.81	-0.11/-0.49	-0.67/-0.81	-0.87/-0.65	-0.23/-0.18	-0.25/-0.44	-0.89/-1.41	-1.77/-2.07	-2.19/-1.96	-1.57/-1.72	-2.32/-2.53	-1.61/-1.31	-1.80/-1.66	-1.69/-1.68	-1.81/-1.89	-1.81/-1.86	-1.77/-1.58	-1.24/-1.22	
Θ(15°)	-0.63/-0.30	0.270/0.73	0.93/1.13	1.00/1.45	1.832/1.18	2.08/1.55	0.870/0.34	-0.67/-1.35	-1.35/-1.52	-1.05/-0.58	-0.52/-0.68	-0.77/-1.10	-1.87/-2.05	-1.81/-1.53	-1.53/-1.44	-0.81/-0.83	-0.71/-0.92	-0.37/-0.37	-0.31/-0.76	-0.73/-0.54	-0.270/-0.16	0.26/-0.14	-0.42/-0.69	-0.60/-0.72
Θ(22.5°)	-0.180/-0.41	1.22/-1.51	0.680/0.64	1.492/-2.5	3.133/-5.5	3.062/3.0	0.86/-0.74	-1.50/-1.94	-2.59/-3.33	-3.54/-3.03	-2.27/-1.86	-2.41/-2.77	-2.65/-2.40	-2.48/-2.83	-2.89/-3.04	-2.92/-2.54	-1.48/-0.65	-0.260/-0.12	0.350/0.3	0.580/0.51	0.24/-0.19	-0.34/-0.57	-0.54/-0.46	
Θ(30°)	0.200/0.18	0.66/-0.37	2.39/3.12	2.902/0.5	1.130/-7.8	1.06/-3.9	0.77/-0.05	-0.99/-2.25	-4.64/-6.76	-6.68/-5.17	-3.78/-3.04	-2.99/-3.66	-4.88/-4.67	-5.65/-6.51	-7.33/-7.90	-7.03/-6.73	-5.61/-3.81	-2.63/-2.09	-1.88/-1.68	-1.22/-0.59	-0.20/-0.01	0.200/-3.2	0.480/-8.2	1.060/-6
Θ(37.5°)	1.57/1.89	2.20/1.61	1.53/1.37	1.21/1.34	1.992/-2.1	1.86/0.95	0.23/-0.82	-2.52/-4.33	-5.01/-5.69	-6.00/-5.68	-5.81/-4.86	-5.35/-6.31	-4.45/-3.99	-5.08/-4.69	-6.26/-8.67	-8.52/-6.46	-5.97/-7.53	-6.66/-4.66	-4.07/-3.90	-2.76/-1.21	0.13/-1.12	1.58/1.74	1.46/1.00	0.94/1.38
Θ(45°)	0.530/-0.56	0.220/-0.41	0.71/1.59	1.71/2.04	2.532/-3.5	2.08/1.62	0.75/-1.03	-3.00/-5.00	-5.44/-5.56	-5.29/-5.26	-5.81/-4.06	-2.88/-2.46	-1.62/-2.89	-4.32/-5.18	-8.89/-8.36	-7.56/-5.76	-7.46/-6.27	-5.47/-9.13	-7.09/-3.05	-2.99/-3.73	-3.66/-1.69	-0.520/-2.2	0.03/-0.58	-1.10/-0.82
Θ(52.5°)	0.100/-0.36	0.290/-0.05	0.75/1.30	1.74/1.86	2.032/-1.5	2.14/-0.99	1.500/-4.9	-0.66/-2.23	-3.35/-3.81	-3.44/-3.09	-3.39/-3.37	-3.91/-3.07	-3.43/-4.29	-2.71/-3.78	-4.54/-5.84	-5.69/-3.51	-6.33/-4.55	-3.53/-4.07	-3.18/-3.70	-4.07/-4.73	-3.07/-1.47	0.62/-1.37	0.790/-3.9	
Θ(60°)	0.37/1.46	1.35/1.84	1.13/-1.56	2.17/2.45	2.142/-2.9	1.29/0.96	0.50/-0.48	-2.02/-2.94	-3.83/-3.68	-4.38/-3.12	-2.31/-2.03	-2.84/-2.47	-3.91/-2.00	-1.51/-2.76	-6.69/-7.66	-4.68/-4.46	-4.43/-4.53	-4.89/-7.19	-7.25/-7.22	-8.08/-7.83	-8.04/-5.79	-3.08/-0.18	1.25/-1.82	1.920/-5.9
Θ(67.5°)	0.34/-1.60	1.49/-1.93	1.67/-1.74	2.20/-2.78	2.35/-1.36	0.65/-0.04	-1.18/-0.55	-0.21/-0.84	-2.88/-5.73	-7.83/-4.24	-2.18/-1.70	-1.54/-2.02	-0.93/-0.76	-0.44/-4.39	-4.82/-5.81	-8.38/-5.60	-6.40/-6.65	-8.76/-7.69	-7.30/-1.97	-8.02/-3.68	-5.72/-4.09	-3.35/-0.74	1.282/-1.8	1.500/-8.1
Θ(75°)	1.65/1.84	2.292/-0.9	1.902/-3.8	2.53/0.30	2.13/-1.44	0.73/-0.12	-0.79/-0.77	-0.55/-1.44	-3.76/-8.22	-9.83/-6.69	-2.53/-1.77	-2.23/-2.93	-2.44/-0.57	0.23/-1.73	-5.96/-7.24	-11.99/-11.22	-10.34/-9.26	-9.42/-10.04	-9.10/-5.67	-5.48/-4.76	-4.73/-3.05	-3.48/-1.43	0.120/-9.7	2.05/-1.85
Θ(82.5°)	2.062/-0.9	1.21/-1.81	2.032/-3.6	3.27/3.31	2.81/-1.38	0.60/-0.53	-1.46/-1.60	-2.27/-2.81	-3.58/-4.16	-7.32/-8.75	-6.85/-4.68	-4.45/-6.13	-4.89/-2.41	-1.36/-2.48	-6.34/-11.01	-7.92/-10.43	-6.32/-3.87	-4.66/-4.89	-4.56/-4.48	-2.70/-0.96	-0.58/-2.29	-2.97/-1.57	0.89/-1.67	2.883/-5.5
Θ(90°)	3.192/-2.6	0.60/-1.41	1.052/-0.1	3.04/-2.83	2.510/-9.2	1.50/-1.16	0.20/-0.59	-0.56/-0.86	-2.66/-6.19	-10.55/-5.67	-4.38/-0.41	-2.51/-5.05	-5.81/-4.37	-1.65/-3.44	-6.02/-9.57	-9.34/-7.20	-3.43/-0.07	-5.42/-3.12	-1.26/-3.17	0.382/-5.4	3.09/-1.70	0.98/-0.32	2.053/-1.2	2.804/-2.1
Θ(97.5°)	3.380/-9.5	-0.220/-1.6	-0.44/-1.33	1.93/-1.98	1.760/-7.8	0.22/-0.05	-0.07/-0.78	-1.44/-2.87	-4.70/-6.78	-7.28/-6.74	-5.92/-3.48	-4.43/-7.54	-14.23/-4.94	-2.81/-3.13	-8.07/-8.68	-9.60/-10.54	-5.21/-2.99	-5.71/-6.41	-2.90/-1.53	0.602/-8.7	2.612/-3.8	0.980/-0.1	0.512/-9.8	2.823/-6.0
Θ(105°)	3.160/-3.2	0.47/-1.24	-1.56/-0.58	1.052/-7.8	3.05/-1.93	1.47/1.80	1.42/-1.49	0.35/-1.86	-4.63/-4.09	-4.63/-6.67	-5.25/-4.23	-6.18/-9.10	-8.31/-2.81	-2.10/-3.67	-11.34/-10.32	-5.35/-6.65	-4.01/-1.22	-3.98/-2.60	0.03/-1.58	1.563/-4.4	3.05/-1.34	-0.510/-5.6	3.033/-7.9	3.272/-8.3
Θ(112.5°)	3.47/1.15	0.14/-1.40	-1.54/-0.30	0.49/-1.77	0.48/-1.38	0.780/-9.1	0.30/-0.99	-2.64/-4.70	-7.79/-9.37	-8.92/-1.47	-4.01/-3.71	-5.86/-7.78	-7.10/-4.94	-3.62/-6.67	-10.37/-6.01	-4.31/-8.75	-6.96/-3.37	-9.68/-3.31	-3.39/-5.84	-1.49/-5.15	2.36/-1.51	0.060/-6.7	3.544/-4.8	4.284/-5.5
Θ(120°)	1.300/-0.9	-0.37/-0.51	-2.56/-2.04	-0.56/-1.27	-0.57/-1.66	-1.23/-0.64	-0.40/-1.28	-2.00/-3.21	-4.02/-2.94	-2.86/-4.69	-9.75/-6.98	-8.10/-12.76	-11.11/-8.00	-6.36/-5.32	-8.99/-10.58	-6.11/-10.54	-4.87/-3.90	-3.20/-3.71	-10.66/-13.93	-1.69/-0.97	-0.16/-2.82	-2.42/-1.57	4.434.96	4.094/-0.9
Θ(127.5°)	1.250/-5.3	-0.26/-0.81	-1.50/-0.77	-1.15/-2.84	-3.95/-3.58	-4.34/-3.23	-2.92/-2.28	-3.57/-4.91	-6.83/-6.77	-5.25/-4.23	-6.61/-8.47	-9.78/-10.76	-5.89/-5.68	-6.67/-5.51	-4.74/-7.85	-8.43/-2.63	-0.19/-5.12	-0.98/-0.97	-6.29/-12.17	-2.56/-1.02	2.590/-9.0	-1.76/-0.91	4.254/-3.9	3.123/-4.8
Θ(135°)	1.502/-1.8	2.45/-0.42	-4.25/-5.11	-3.64/-4.68	-5.55/-6.43	-6.38/-7.53	-5.99/-3.95	-3.51/-4.09	-8.17/-9.58	-6.43/-5.06	-4.35/-5.08	-6.52/-5.93	-5.85/-5.45	-3.53/-6.83	-13.99/-10.31	-9.56/-4.12	-7.16/-4.37	-2.41/-2.57	-8.11/-8.09	-4.81/-1.94	-2.85/-1.61	-7.59/-3.68	-2.09/-0.92	-2.320/-6.0
Θ(142.5°)	-2.18/-3.89	-4.20/-5.15	-6.63/-5.74	-5.46/-6.50	-5.79/-5.25	-6.35/-7.78	-6.79/-5.06	-4.71/-5.61	-4.83/-4.38	-5.62/-6.32	-6.20/-6.66	-6.52/-5.94	-4.79/-8.62	-12.33/-12.04	-13.01/-9.84	-9.94/-7.25	-6.51/-8.12	-4.82/-3.38	-3.26/-3.42	-4.24/-5.72	-5.37/-2.77	-1.78/-0.99	0.04/-0.18	0.02/-1.44
Θ(150°)	1.22/-0.89	-3.75/-3.84	-2.24/-0.82	-0.13/-0.95	-1.48/-1.87	-2.42/-2.69	-3.64/-5.03	-5.76/-7.07	-9.15/-11.27	-9.17/-6.32	-9.31/-10.80	-13.36/-13.97	-12.02/-9.61	-7.82/-6.06	-4.49/-5.44	-7.30/-4.14	-1.76/-1.50	-1.23/-0.33	-0.87/-0.66	-3.59/-6.17	-8.87/-8.50	-4.59/-2.16	-0.03/-0.92	3.183/-5.8
Θ(157.5°)	2.86/1.27	-1.19/-3.20	-3.31/-2.38	-2.13/-2.46	-2.69/-2.52	-2.27/-1.93	-2.40/-3.05	-3.28/-3.40	-3.74/-3.43	-3.42/-4.24	-6.03/-7.70	-8.57/-8.78	-7.19/-4.80	-3.79/-5.08	-9.13/-11.07	-7.31/-5.93	-7.78/-9.11	-7.27/-7.02	-7.27/-8.34	-10.30/-14.07	-7.73/-3.68	-1.11/-1.20	2.823/-4.1	3.633/-5.2
Θ(165°)	-3.10/-5.06	-6.61/-6.48	-6.14/-6.36	-6.52/-7.27	-7.84/-7.12	-5.12/-3.35	-3.18/-3.09	-2.41/-2.52	-3.33/-4.14	-4.73/-5.58	-6.13/-7.64	-10.38/-13.54	-13.51/-11.41	-9.27/-7.64	-6.11/-5.27	-4.45/-3.31	-2.19/-1.55	-1.82/-2.60	-3.65/-4.54	-5.78/-6.46	-6.45/-4.50	-2.56/-0.97	-0.010/-1.3	-0.56/-1.67
Θ(172.5°)	-4.23/-4.62	-4.20/-3.91	-4.50/-4.62	-4.51/-4.06	-3.55/-3.46	-2.99/-2.39	-2.17/-2.87	-3.67/-4.65	-6.02/-7.62	-8.90/-9.45	-9.92/-10.41	-11.85/-11.52	-10.66/-9.42	-8.64/-8.30	-6.79/-5.42	-4.89/-4.37	-3.07/-2.93	-3.87/-4.13	-4.57/-4.77	-4.96/-5.12	-4.48/-4.38	-3.95/-3.65	-3.82/-3.82	
Θ(180°)	-5.59/-5.87	-5.84/-5.25	-4.74/-4.81	-4.82/-4.93	-5.55/-6.64	-8.05/-8.04	-7.87/-8.83	-10.59/-10.04	-9.71/-10.21	-10.68/-11.78	-12.14/-11.32	-10.83/-9.92	-9.35/-8.66	-8.17/-7.85	-7.58/-7.71	-8.15/-8.51	-8.44/-8.32	-8.44/-8.33	-8.40/-7.37	-7.23/-7.09	-6.82/-6.78	-6.67/-6.52	-6.24/-6.43	-6.27/-5.74
Freq(Hz)	6.175GPol.	TotalAnt. 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	2.442/2.22	2.182/-2.5	2.432/-3.0	1.67/1.17	1.08/1.01	0.950/0.86	0.890/0.78	1.06/1.42	1.77/1.57	1.39/1.16	1.33/1.67	1.972/3.0	2.842/6.9	2.772/5.6	2.352/3.9	2.241/7.0	1.57/1.59	1.42/1.13	1.23/1.58	1.71/1.87	2.102/3.0	2.672/9.6	2.932/7.9	2.522/5.4
Θ(7.5°)	2.282/-4.5	2.95/-2.2	3.523/-7.7	3.863/8.7	4.033/-7.8	3.493/-3.4	3.233/-1.3	3.123/-1.8	3.373/-4.4	3.082/8.7	2.802/-7.4	2.692/-6.5	2.512/-2.3	2.00/1.71	1.51/1.25	1.070/-8.5	0.540/-2.0	-0.36/-0.46	-0.10/-0.25	-0.200/-0.4	0.200/-5.5	1.02/-2.6	1.29/-3.6	1.742/-0.8
Θ(15°)	1.952/-2.0	2.442/-6.1	2.632/-9.7	3.433/-9.6	4.234/-4.2	4.624/-5.6	3.434/-1.2	4.013/-4.6	2.917/-5.1	1.45/-1.53	1.59/-1.50	1.36/-1.11	0.61/-0.11	-0.60/-0.86	-1.44/-1.72	-1.91/-1.24	-1.76/-1.50	-1.23/-0.33	-0.110/-0.13	0.330/-4.5	0.500/-3.8	0.080/-4.6	1.001/-5.8	
Θ(22.5°)	1.18/1.98	2.552/-9.0	3.283/-9.3	4.344/-1.7	3.873/-9.3	3.833/-5.9	3.383/-3.45	3.633/-1.9	2.65/1.67	0.64/-0.02	0.240/-6.1	0.96/1.20	1.150/-9.1	0.38/-0.22	-0.84/-1.64	-2.78/-3.12	-3.19/-3.10	-3.22/-2.76	-1.58/-1.32	-1.31/-1.30	-0.770/-0.8	0.71/1.13	1.000/-7.0	0.660/-7.0
Θ(30°)	1.252/-1.4	2.27/1.71	1.54/-1.97	2.102/-3.1	2.642/-6.5	2.232/-1.4	2.091/-9.5	1.450/-8.4	0.08/-0.48	-0.88/-1.14	-1.11/-0.43	0.210/-5.7	0.92/1.05	0.26/-1.45	-3.46/-5.04	-6.72/-6.53	-5.30/-4.44	-3.24/-2.36	-2.14/-1.73	-1.21/-0.41	-0.03/-0.25	-0.54/-0.59	-0.71/-0.48	0.340/-8.7
Θ(37.5°)	0.620/-0.81	1.51/-5.5	1.792/-1.6	2.132/-1.0	1.751/-4.8	1.331/-1.0	0.35/-0.68	-2.31/-2.56	-0.26/-5.91	-3.51/-4.47	-3.83/-2.34	-2.19/-0.50	-0.36/-0.92	-2.45/-5.86	-9.33/-13.62	-9.95/-5.57	-7.94/-6.74	-5.64/-4.59	-3.65/-1.57	-0.94/-1.08	-1.130/-0.52	0.431/-0.8	0.900/-3.6	0.460/-8.3
Θ(45°)	2.122/-9.7	3.543/-0.9	2.45/1.30	0.46/1.19	1.42/1.48	1.02																		



Antenna Pattern of 6GHz

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θ(22.5°)	-0.80/-2.02	-3.28/-3.01	-3.54/-3.57	-3.19/-3.65	-4.10/-5.45	-5.41/-4.69	-5.42/-6.34	-7.40/-8.57	-7.26/-4.29	-1.61/-0.10	0.28/-0.22	-0.74/-0.59	0.21/-1.37	1.90/-1.23	-0.68/-2.72	-3.79/-3.32	-2.83/-3.00	-3.79/-3.61	-3.27/-3.03	-3.03/-3.61	-4.35/-3.96	-2.83/-3.68	-1.04/-0.04	0.20/-0.26
θ(30°)	-4.20/-5.70	-3.86/-2.61	-2.04/-1.82	-1.19/-3.17	-1.64/-2.74	-2.82/-3.04	-3.70/-3.90	-3.86/-4.07	-5.14/-6.18	-5.35/-3.45	-2.39/-2.15	-1.86/-0.65	1.31/-2.69	2.41/-0.49	-2.05/-3.25	-2.26/-1.25	-1.57/-2.90	-2.93/-1.29	-0.26/-0.69	-2.08/-2.85	-2.92/-3.18	-3.11/-2.78	-2.02/-0.33	-0.40/-1.66
θ(37.5°)	-3.39/-5.09	-1.29/-0.55	1.27/-0.22	-0.94/-2.38	-3.40/-3.56	-2.09/-0.81	-1.58/-2.86	-3.89/-3.18	-2.03/-2.71	-4.00/-3.26	-1.12/-1.13	-2.51/-1.50	1.20/-2.22	0.76/-1.25	-2.84/-2.76	-1.92/-0.92	-0.58/-2.64	-2.58/-2.66	-0.750.23	-0.58/-2.04	-3.09/-3.63	-2.96/-1.31	-0.63/-1.09	
θ(45°)	-2.52/-1.53	-0.44/-0.45	0.80/-0.01	-1.70/-2.08	-1.35/-0.32	-0.19/-0.63	-0.73/-0.42	-0.51/-1.69	-2.54/-3.24	-4.89/-5.78	-4.97/-3.76	-4.70/-2.58	0.41/-1.08	-0.77/-3.10	-3.67/-1.65	-0.49/-0.11	-0.67/-1.68	-2.12/-2.12	-1.39/-1.33	-1.34/-0.62	0.20/-0.28	-1.95/-3.75	-3.27/-2.09	-2.45/-2.75
θ(52.5°)	-2.54/-2.28	-1.30/-0.38	-0.42/-1.88	-2.50/-2.02	-2.25/-3.13	-2.52/-1.56	-2.98/-5.37	-4.37/-2.10	-1.06/-2.09	-4.95/-5.88	-7.89/-10.82	-7.20/-1.11	0.08/-0.02	-0.06/-2.48	-1.050.97	-0.51/-3.13	-1.93/-1.07	0.360.63	0.760.42	-0.67/-2.30	-3.90/-3.81	-4.05/-3.74	-2.39/-0.85	-1.37/-1.19
θ(60°)	-9.24/-8.16	-1.97/-0.80	-0.10/-1.75	-3.09/-4.55	-3.80/-1.62	-0.60/-0.96	0.67/-1.13	-3.64/-4.07	1.02/-1.00	0.16/-1.55	-1.74/-1.34	-2.07/-2.89	-2.66/-0.69	-0.06/-1.75	-0.27/-2.16	-3.67/-0.90	0.280.58	0.580.02	0.25/-0.24	-2.02/-3.84	-3.62/-2.10	-2.33/-4.28	-3.30/-4.42	
θ(67.5°)	-13.60/-13.35	-7.12/-4.80	-4.88/-9.84	-8.28/-6.95	-5.54/-3.89	-1.37/-1.13	1.61/-1.31	-0.73/-2.57	0.18/-1.87	1.05/-0.48	-0.56/-0.85	-1.45/-2.17	-1.760.44	0.27/-2.35	-1.91/-0.45	-0.89/-3.10	-2.81/-0.50	1.602.06	1.030.48	-0.29/-3.07	-3.79/-3.10	-2.67/-3.02	-5.88/-12.04	-10.48/-9.89
θ(75°)	-5.41/-6.98	-7.28/-4.85	-8.08/-8.15	-7.07/-5.66	-5.93/-2.63	-0.560.23	0.82/-0.49	-2.84/-2.82	-0.10/-1.88	1.36/-1.49	-0.75/-1.28	-2.70/-2.42	-3.98/-1.87	-2.85/-6.28	-2.13/-0.39	0.21/-0.86	-0.40/-1.36	-1.01/-2.13	-0.31/-2.21	-4.42/-4.66	-5.66/-6.34	-5.54/-7.80	-6.12/-5.36	-3.78/-3.29
θ(82.5°)	-3.58/-7.15	-6.42/-4.17	-7.06/-9.98	-5.97/-1.80	-1.13/-1.57	-1.38/-1.76	3.28/-1.92	-0.75/-4.48	-0.64/-0.31	1.97/-1.81	-1.13/-0.12	-1.34/-0.99	-3.22/-2.38	-0.80/-2.99	-2.61/-0.07	-1.05/-4.02	0.67/-1.51	0.79/-1.05	-1.84/-3.80	-2.11/-4.88	-2.38/-2.18	-2.38/-4.62	-5.28/-3.51	-2.71/-4.13
θ(90°)	-4.76/-5.48	-5.71/-5.11	-5.24/-5.05	-1.16/-0.16	0.08/-3.10	-3.120.28	1.27/-1.31	-0.86/-4.53	-0.182.00	1.98/-2.60	-2.48/-1.29	-2.33/-2.39	-8.01/-5.06	-1.48/-4.79	-2.880.29	-0.21/-1.09	0.95/-2.02	0.25/-0.24	0.350.56	-1.27/-1.28	-1.98/-1.11	-0.06/-3.73	-6.11/-10.94	-6.36/-2.95
θ(97.5°)	-0.41/-2.41	-1.86/-12.37	-4.95/-6.95	-5.06/-2.68	-2.35/-6.21	-4.96/-3.35	-1.83/-2.21	-6.47/-8.48	-2.162.01	1.36/-3.17	-1.78/-2.03	-5.25/-6.00	-5.08/-6.23	-5.21/-9.22	-4.44/-0.10	0.37/-1.60	0.18/-1.08	0.43/-0.02	-0.90/-2.29	-1.44/-4.31	-2.73/-3.74	-4.01/-3.35	-2.780.34	
θ(105°)	0.42/-0.20	-3.89/-9.59	-3.91/-8.87	-9.36/-2.93	-6.63/-3.13	-7.16/-3.44	-1.54/-0.61	-0.89/-4.59	-4.41/-0.74	-1.30/-5.15	-3.06/-0.55	0.00/-0.07	-0.48/-3.54	-3.50/-3.83	-3.49/-0.26	2.280.23	-0.27/-0.14	-0.472.40	0.082.29	2.15/-0.68	1.252.10	1.08/-4.44	-0.21/-2.00	1.622.27
θ(112.5°)	0.95/-0.49	-1.97/-6.01	-4.30/-8.59	-9.90/-2.64	-0.85/-0.47	-6.87/-9.20	-3.92/-3.09	-4.89/-4.80	-1.42/-1.25	-6.50/-5.96	-3.65/-4.11	-3.59/-3.26	-5.59/-5.09	-2.29/-4.23	-5.01/-2.92	0.380.35	0.59/-2.11	-0.26/-1.11	2.812.34	2.67/-1.88	1.983.21	2.14/-0.94	-4.09/-3.01	0.321.85
θ(120°)	0.28/-0.05	-0.30/-6.21	-8.41/-3.95	-6.33/-7.44	-9.27/-8.49	-8.50/-10.78	-4.95/-2.78	-2.51/-2.42	-0.84/-1.52	-3.26/-2.34	-1.26/-1.28	-3.68/-2.06	-2.48/-8.42	-4.86/-10.09	-8.50/-4.69	-1.010.75	-4.230.46	2.852.59	0.86/-0.05	0.250.95	0.55/-0.85	-0.43/-1.58	-0.212.28	
θ(127.5°)	1.65/-0.48	-1.98/-3.55	-0.13/-1.49	-5.51/-10.83	-8.59/-3.57	-4.13/-5.04	-3.25/-2.56	-1.27/-0.01	-2.05/-1.56	-2.16/-2.53	-0.08/-0.33	-2.35/-1.91	-4.42/-4.90	-1.82/-1.44	-5.33/-6.22	-0.432.14	1.73/-1.38	-1.090.65	4.510.00	-0.160.31	1.10/-0.62	-0.31/-1.01	-1.16/-1.41	1.613.28
θ(135°)	1.61/-0.21	1.14/-3.74	-2.86/-0.64	-0.75/-9.63	-7.50/-6.89	-4.72/-4.80	-11.43/-7.57	-3.82/-5.34	-2.98/-3.85	-6.81/-5.01	-4.50/-5.32	-5.10/-3.61	-6.12/-5.46	-1.54/-3.90	-8.40/-2.73	2.653.42	1.504.58	-2.38/-1.94	6.145.68	-3.51/-4.75	3.774.52	2.283.59	-1.14/-0.96	1.042.89
θ(142.5°)	2.97/-0.49	2.29/-4.43	-0.74/-1.34	-0.82/-0.43	-4.90/-4.16	-3.45/-9.43	-11.28/-14.08	-8.08/-2.79	-2.05/-3.31	-5.12/-8.09	-10.96/-9.54	-14.94/-9.27	-3.78/-3.15	-6.55/-3.74	-4.99/-1.70	-0.10/-1.49	3.07/-0.78	-7.43/-2.91	3.614.20	-0.29/-2.24	0.875.62	3.17/-1.11	2.892.56	4.234.61
θ(150°)	3.13/-0.04	-4.71/-5.91	-3.82/-3.57	-5.24/-5.97	-4.50/-2.96	-2.95/-4.03	-6.82/-10.86	-14.70/-10.60	-6.68/-9.37	-13.76/-6.12	-7.39/-4.99	-1.66/-4.24	-4.83/-4.76	-4.28/-0.15	1.26/-1.61	4.454.86	2.36/-2.12	-5.13/-3.05	-0.05/-1.39	-3.87/-1.82	-0.21/-2.00	-1.85/-1.77	-0.85/-1.77	
θ(157.5°)	5.084.45	1.81/-1.05	-1.80/-1.27	-1.31/-2.72	-4.90/-4.88	-4.23/-4.29	-3.93/-3.88	-4.28/-4.46	-3.46/-2.19	-2.48/-5.49	-6.56/-3.23	0.222.98	3.792.81	1.400.75	0.750.52	-0.59/-3.03	-5.42/-4.57	-2.120.12	1.421.92	1.350.29	-0.64/-0.80	-0.210.85	2.033.84	4.685.07
θ(165°)	-2.58/-3.38	-4.34/-4.76	-5.13/-6.33	-7.40/-7.75	-5.65/-5.02	-4.61/-4.10	-4.52/-6.54	-6.24/-6.19	-6.29/-7.95	-9.69/-8.54	-5.38/-2.42	0.473.06	4.414.53	3.40/-1.14	-1.83/-5.74	-8.91/-7.46	-4.18/-2.47	-1.150.07	0.540.77	0.49/-0.18	-1.85/-3.77	-5.18/-3.51	-4.30/-3.66	-2.88/-2.07
θ(172.5°)	-8.25/-8.21	-8.23/-7.93	-9.22/-9.46	-8.46/-6.51	-5.67/-5.98	-6.33/-5.62	-5.69/-6.14	-5.64/-4.95	-4.29/-4.03	-3.60/-3.02	-2.33/-1.48	-0.690.18	0.791.18	1.080.61	0.06/-0.12	0.220.76	1.18/-1.44	1.982.65	3.183.61	2.310.90	-0.76/-2.55	-4.45/-6.98	-8.87/-8.60	
θ(180°)	-7.49/-7.24	-5.89/-3.96	-2.56/-2.12	-2.40/-3.21	-3.48/-2.36	-1.43/-0.88	-0.51/-0.48	-0.51/-0.32	0.010.17	0.090.18	0.360.76	0.930.15	0.700.77	0.31/-0.67	-0.42/-1.35	-0.76/-0.26	0.250.54	0.800.97	0.840.51	-0.08/-0.80	-1.19/-1.99	-3.87/-6.55	-7.20/-7.72	-7.85/-7.17
Freq(Hz)	6.475GPol.	TotalAnt.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
θ(0°)	2.212.02	2.482.56	2.622.55	2.603.04	3.073.19	3.383.03	3.113.05	2.522.53	2.532.37	2.342.28	2.072.06	2.252.28	2.402.51	2.192.29	2.442.57	2.772.71	2.682.66	2.612.54	2.402.49	2.612.74	2.822.77	2.452.14	2.112.06	2.292.29
θ(7.5°)	1.571.37	1.18/-1.29	1.07/-1.29	1.712.26	2.482.37	2.482.45	2.602.56	2.402.51	2.762.80	2.882.89	2.972.97	3.023.02	2.982.78	2.642.44	2.322.10	1.83/-1.92	1.83/-1.62	1.45/-1.21	1.10/-1.21	1.34/-1.51	1.57/-1.13	1.11/-1.16	1.24/-1.14	1.47/-1.51
θ(15°)	0.30/-0.04	-0.54/-0.88	-1.02/-0.73	-0.64/-0.57	-0.31/-0.91	-2.482.49	0.630.92	1.14/-1.69	2.472.19	3.212.63	3.013.44	3.834.00	3.903.42	3.232.77	2.562.33	2.342.28	2.15/-1.97	1.53/-1.01	0.54/-0.19	-1.21/-2.03	-3.05/-2.32	-0.60/-1.75	-1.44/-1.26	-0.560.03
θ(22.5°)	0.580.31	-0.90/-3.32	-6.17/-8.98	-7.19/-6.70	-3.87/-4.89	-5.57/-4.53	-3.77/-2.91	-1.70/-0.57	0.290.23	-0.29/-0.18	1.01/-2.14	2.933.19	2.772.17	1.82/-1.66	1.83/-1.97	2.142.26	1.87/-1.20	0.550.29	0.05/-0.49	-1.31/-1.86	-2.41/-2.83	-2.83/-2.75	-2.19/-1.76	-0.740.06
θ(30°)	-2.61/-4.18	-6.64/-8.20	-4.41/-2.56	-2.45/-3.46	-3.87/-3.30	-3.27/-1.90	-1.98/-2.42	-3.93/-4.15	-3.67/-3.08	-3.10/-2.99	-1.79/-0.59	0.43/-1.18	1.80/-1.24	0.500.25	0.29/-0.30	-1.06/-2.01	-3.14/-3.02	-3.06/-4.30	-5.41/-4.84	-3.82/-4.24	-1.54/-1.84	-1.87/-1.25	-3.14/-2.61	-1.23/-1.31
θ(37.5°)	-4.05/-6.02	-7.53/-6.74	-5.03/-4.95	-4.87/-2.92	-1.230.00	-0.89/-0.95	-1.85/-1.50	-1.23/-1.68	-2.88/-4.34	-4.41/-3.82	-3.11/-2.14	-0.332.02	3.202.37	0.68/-0.25	-0.63/-0.87	-1.09/-1.56	-1.76/-1.74	-1.88/-1.27	-0.69/-1.76	-3.87/-4.20	-3.28/-2.48	-3.56/-5.43	-8.17/-7.22	-2.92/-2.21
θ(45°)	-4.37/-5.40	-5.46/-3.80	-3.34/-3.53	-3.14/-2.31	-2.71/-1.64	-1.020.37	0.650.26	-0.310.07	-0.030.66	-2.35/-4.28	-3.89/-3.62	-3.60/-0.77	1.71/-1.12	-0.97/-1.79	-0.290.71	-0.09/-0.83	-0.230.05	1.19/-1.34	0.750.78	0.62/-0.73	-1.72/-1.06	0.32/-0.70	-4.53/-6.76	-1.52/-3.72
θ(52.5°)	-5.61/-6.80	-5.67/-3.28	-3.45/-3.51	-4.01/-5.11	-4.46/-1.72	-0.97/-0.25	0.330.22	-0.31/-0.70	-0.81/-0.62	-1.31/-2.33	-2.31/-3.18	-2.61/-0.80	-0.46/-1.00	-2.00/-0.88	0.990.05	-0.560.95	1.67/-1.62	1.41/-1.30	0.13/-1.89	-2.55/-1.01	-0.38/-1.05	-1.39/-1.10	-3.25/-5.33	-3.09/-3.38
θ(60°)	-4.57/-3.36	-4.54/-3.93	-6.84/-10.65	-8.27/-7.53	-6.10/-4.74	-1.760.22	0.07/-0.66	-2.05/-1.54	0.290.81	-0.58/-1.39	-1.93/-5.57	-6.73/-2.74	-0.67/-1.55	-2.00/-1.40	-0.99/-1.31	-2.18/-0.37	0.160.80	0.41/-0.70	-0.71/-3.01	-4.73/-4.80	-2.55/-1.98	-2.97/-3.02	-4.57/-8.65	-4.47/-3.94
θ(67.5°)	-4.43/-8.90	-9.83/-9.46	-10.47/-9.23	-7.37/-4.46	-2.74/-2.05	0.030.75	1.62/-1.05	-1.42/-1.87	0.21/-1.49	0.54/-1.85	-1.09/-2.99	-3.59/-0.39	-1.84/-1.32	-0.49/-2.12	-0.30/-1.56	-2.44/-1.83	-1.74/-0.33	-0.54/-0.09	0.31/-0.31	-1.31/-3.44	-4.64/-5.62	-2.61/-2.88	-3.74/-9.30	-10.55/-4.21
θ(75°)	-5.82/-5.88	-6.19/-9.51	-10.18/-10.76	-7.54/-3.96	-1.48/-1.40	-0.76/-1.70	2.70/-1.64	-0.63/-3.59	-0.622.06	0.97/-1.22	-1.05/-2.93	-4.63/-1.62	-2.30/-2.15	-0.50/-0.99	-0.18/-0.37	-0.17/-0.79	-1.99/-0.52	0.502.07	0.25/-0.53	-1.85/-4.00	-3.23/-3.19	-2.72/-1.51	-3.52/-5.93	-4.19/-2.95
θ(82.5°)	-3.83/-7.52	-5.64/-7.27	-7.49/-7.57	-8.63/-4.76	-2.84/-2.89	-0.99/-1.18	1.700.67	-3.72/-3.76	-0.96/-1.18	0.24/-3.66	-0.92/-4.04	-5.41/-3.23	-4.90/-3.46	-4.08/-4.16	-0.91/-0.59	-0								



Antenna Pattern of 6GHz

Appendix D

θ(75°)	-3.42/-2.71	-1.00/-0.89	-3.02/-3.55	-4.19/-5.28	-6.22/-6.18	-5.78/-5.24	-4.39/-1.69	0.50/2.36	2.37/1.18	-0.21/0.64	1.50/2.24	3.09/3.33	3.23/2.29	1.46/-0.52	-2.33/-3.53	-4.45/-1.52	0.00/0.35	-0.59/-2.01	-3.06/-3.86	-3.95/-2.47	-1.62/0.31	-0.04/0.85	-0.20/-1.53	-5.34/-3.98
θ(82.5°)	-5.26/-4.93	-1.68/0.29	-1.82/-2.69	-4.33/-7.12	-6.91/-5.01	-3.46/-3.87	-3.31/-1.89	0.74/2.29	2.32/1.34	-0.15/0.56	1.91/2.69	3.04/3.33	3.69/3.41	1.96/-0.05	-2.54/-5.70	-4.86/-2.23	-0.51/-0.68	-1.36/-3.19	-2.36/-2.48	-3.30/-1.42	-0.47/-0.56	-2.38/-0.81	-2.09/-1.82	-4.06/-3.47
θ(90°)	-8.84/-7.46	-1.55/0.46	-2.40/-5.36	-9.59/-13.74	-11.15/-4.25	-1.39/-0.56	-0.54/-1.1	1.69/2.78	2.24/1.46	-0.07/0.15	1.84/2.12	3.18/3.80	3.05/2.64	1.79/0.47	-0.48/-3.20	-3.07/-0.98	0.84/1.40	0.98/-0.55	0.61/-0.99	-2.52/-0.95	-0.62/-0.19	-1.04/-1.51	-1.75/-2.40	-6.32/-9.93
θ(97.5°)	-12.10/-15.12	-3.92/-1.75	-3.78/-5.79	-12.85/-13.33	-7.06/-5.08	-3.69/-3.27	-2.38/0.06	2.64/3.43	2.95/1.53	-0.44/-1.46	2.52/2.93	3.61/4.12	3.29/3.10	1.93/2.22	-0.26/-4.27	-4.74/-1.36	0.62/1.29	0.37/0.85	-1.43/-1.72	-3.92/-3.30	-5.00/-4.03	-3.72/-2.82	-5.13/-4.16	-5.85/-15.04
θ(105°)	-5.68/-5.32	-1.89/-3.59	-5.20/-2.75	-12.92/-5.18	-1.29/-0.32	0.51/-2.02	-3.85/-1.46	2.36/3.73	3.63/2.40	0.58/-1.59	2.50/3.06	3.67/3.98	3.03/3.39	1.94/1.89	0.51/-3.18	-6.07/-3.26	-1.77/-0.88	0.43/-0.70	0.86/-0.64	-2.43/-2.14	-8.09/-12.88	-8.62/-4.72	-4.94/-4.87	-8.87/-9.44
θ(112.5°)	-9.82/-7.11	-4.70/-6.66	-5.99/-6.29	-5.58/-3.16	-0.15/0.44	0.94/0.25	-0.44/0.30	1.32/2.35	2.79/0.54	-0.03/0.31	2.75/4.03	4.53/4.02	2.54/2.36	1.82/1.80	0.12/-2.13	-4.69/-1.20	-4.25/-3.05	-2.44/-4.26	-2.51/-3.92	-6.81/-7.12	-7.86/-6.76	-7.77/-6.05	-4.92/-4.35	-12.36/-8.63
θ(120°)	-5.53/-3.44	-3.76/-5.30	-7.01/-5.97	-2.92/-2.48	-1.70/-1.18	-1.96/-2.26	-1.33/0.51	2.50/3.65	3.09/1.35	-0.45/0.13	2.33/3.90	4.58/3.41	1.12/-0.72	0.02/1.44	2.04/1.22	-1.69/-3.27	-3.87/-4.56	-5.05/-5.60	-7.41/-9.12	-8.85/-9.02	-6.48/-5.59	-6.57/-4.09	-6.93/-2.45	-6.95/-12.27
θ(127.5°)	-1.10/-1.41	-2.24/-8.52	-9.62/-5.55	-3.25/-1.78	-1.93/-2.14	-3.58/-6.25	-6.50/-1.68	1.71/2.72	2.31/1.23	-1.53/-0.50	2.41/4.11	4.184/2.7	3.62/1.69	1.08/0.01	-2.14/-5.38	-6.71/-3.80	-9.77/-5.88	-9.89/-8.00	-8.02/-6.42	-6.48/-10.51	-7.00/-7.96	-4.80/-13.55	-4.54/-5.10	-12.19/-6.78
θ(135°)	-5.23/-7.32	-10.36/-8.33	-7.96/-9.81	-5.77/-2.87	0.56/1.38	0.22/-2.80	-5.76/-4.34	-0.42/2.42	3.13/2.53	0.07/-3.62	-1.92/1.59	4.40/5.04	4.41/1.31	-2.73/-5.85	-3.14/-1.38	-1.58/-0.82	-3.99/-3.49	-4.29/-5.58	-4.40/-4.46	-3.14/-12.34	-5.97/-7.16	-9.65/-5.40	-7.16/-6.61	-15.50/-10.25
θ(142.5°)	-14.17/-13.94	-7.90/-5.57	-4.95/-5.19	-2.55/-1.06	-0.17/0.62	0.11/-1.27	-2.31/-1.22	0.80/2.21	3.09/2.28	0.45/-0.04	-0.13/0.86	1.48/0.59	-0.57/0.38	0.26/-2.55	-4.78/-7.75	-6.10/-12.50	-6.41/-6.32	-5.57/-5.51	-4.88/-2.42	-2.70/-6.95	-9.33/-6.74	-14.57/-12.30	-12.28/-11.37	-9.82/-13.21
θ(150°)	-8.59/-8.06	-7.21/-5.93	-4.40/-3.23	-2.06/-1.71	-2.42/-2.48	-1.52/-0.21	0.26/0.38	0.92/1.75	2.39/2.71	2.35/-1.18	-0.27/-1.89	-2.22/-0.23	0.74/1.22	1.65/-0.24	-4.21/-5.46	-5.05/-6.18	-6.24/-4.56	-2.80/-3.15	-4.88/-4.95	-4.57/-5.54	-7.80/-8.54	-7.27/-7.19	-7.38/-8.92	-11.07/-10.79
θ(157.5°)	-7.18/-5.55	-3.63/-2.72	-2.59/-2.47	-5.88/-2.67	-2.28/-2.01	-1.69/-1.53	-1.17/-1.34	-0.57/-1.05	-0.91/-0.12	0.50/1.35	2.43/2.68	2.42/1.91	1.14/0.14	-0.22/0.31	-1.50/-3.33	-4.56/-4.22	-3.99/-4.21	-3.86/-3.69	-4.94/-7.43	-11.57/-13.23	-7.71/-3.96	-2.60/-2.85	-4.75/-6.35	
θ(165°)	-5.91/-4.96	-4.02/-3.61	-3.69/-3.42	-2.87/-2.51	-2.75/-3.30	-4.00/-4.58	-4.54/-4.24	-3.70/-2.75	-1.44/-0.82	-0.46/-0.28	0.03/0.45	0.85/1.13	1.18/1.00	-0.08/-2.15	-4.85/-7.73	-7.95/-6.69	-6.89/-8.66	-10.80/-9.59	-7.03/-5.47	-5.69/-6.22	-6.11/-5.11	-5.05/-5.36	-5.68/-5.77	-5.43/-5.86
θ(172.5°)	-9.09/-8.77	-8.36/-7.74	-6.83/-5.61	-4.29/-3.46	-3.11/-3.18	-3.66/-3.85	-3.95/-4.33	-4.31/-4.05	-3.88/-4.29	-4.16/-3.86	-3.65/-3.74	-4.10/-4.78	-0.66/-8.33	-10.82/-9.26	-7.11/-5.43	-4.93/-5.97	-7.72/-10.11	-11.37/-10.91	-11.52/-10.45	-8.36/-7.82	-8.09/-9.29	-11.05/-9.84	-8.20/-7.47	-7.94/-8.67
θ(180°)	-8.89/-9.35	-9.49/-10.45	-10.73/-9.96	-8.99/-9.06	-9.28/-10.12	-11.60/-12.93	-13.19/-12.03	-10.99/-10.20	-10.82/-11.22	-11.77/-12.09	-12.99/-13.80	-14.11/-14.74	-15.21/-14.83	-12.98/-12.29	-12.74/-13.79	-15.36/-15.82	-14.25/-12.38	-12.16/-13.55	-13.40/-12.39	-12.71/-12.12	-11.42/-10.61	-9.40/-9.89	-8.84/-8.06	-7.94/-8.41
Freq(Hz)	6.475GPdL	TotalAnt.3	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
θ(0°)	0.96/1.20	1.58/1.95	2.16/2.10	1.76/1.28	0.96/0.82	0.66/0.67	0.55/0.54	0.36/0.45	0.65/0.71	0.77/0.88	1.06/1.10	1.20/1.49	1.68/1.77	1.81/1.63	1.57/1.77	1.92/1.61	1.25/0.46	0.43/0.34	0.08/-0.18	-0.40/-0.52	-0.17/0.48	1.13/1.20	0.94/0.96	0.94/0.87
θ(7.5°)	-0.34/0.10	-0.67/1.06	1.30/1.60	1.59/1.37	1.21/0.96	0.85/0.82	0.74/0.71	0.69/0.75	1.17/1.58	2.12/1.96	2.14/2.22	2.32/2.50	2.78/3.00	3.13/3.17	3.07/2.92	2.87/2.84	2.52/2.24	1.95/1.80	1.47/1.36	1.46/1.20	0.79/0.59	0.51/0.54	0.72/0.44	-0.10/-0.21
θ(15°)	-1.41/-1.25	-0.83/-0.16	0.38/0.91	0.95/0.86	1.11/1.48	1.71/1.73	1.75/1.55	1.47/1.63	1.84/2.09	1.70/2.78	2.84/2.99	3.17/3.11	2.86/2.44	2.05/1.97	1.81/1.64	1.48/1.13	0.81/0.88	1.20/1.36	1.43/1.57	1.49/1.06	0.56/0.38	0.50/0.05	-0.24/-1.11	-1.82/-1.48
θ(22.5°)	-2.03/-1.66	-1.28/-0.85	-0.74/-0.76	-0.75/-0.54	0.07/0.78	1.26/1.64	2.05/2.33	2.67/2.61	2.29/2.14	2.18/1.81	1.58/2.02	2.48/2.38	2.05/1.85	2.12/2.42	2.52/3.23	2.23/1.90	1.76/1.31	0.54/-0.14	-0.79/-1.58	-1.72/-1.12	-0.54/-0.18	0.16/0.01	-0.74/-1.15	-2.22/-2.20
θ(30°)	-1.81/-0.28	0.47/-0.10	-0.88/-2.06	-2.68/-2.65	-2.54/-1.97	-1.31/0.06	1.05/1.92	2.31/2.14	1.36/0.62	0.33/0.25	0.15/0.33	0.59/0.76	1.10/1.38	1.41/0.76	0.46/0.74	1.61/2.26	2.25/1.60	0.63/-0.61	-1.85/-2.70	-3.09/-3.08	-2.79/-2.66	-2.07/-0.90	-0.38/-0.29	-1.21/-1.93
θ(37.5°)	-0.85/-0.45	-0.18/-1.77	-2.32/-2.89	-3.63/-4.76	-5.58/-4.01	-2.47/-1.13	-0.20/0.66	1.58/1.94	1.86/1.57	0.52/-1.08	-1.31/-0.66	-0.32/0.99	1.88/1.17	0.26/-0.17	0.38/1.57	1.75/1.21	-0.14/-1.73	-3.22/-3.72	-3.54/-3.61	-2.90/-2.08	-1.55/-1.10	-0.33/-0.08	-0.65/-0.78	
θ(45°)	-0.76/-1.98	-1.10/-2.04	-2.62/-3.15	-3.66/-4.16	-4.59/-4.03	-3.11/-2.32	-1.76/-1.16	-0.17/0.46	0.81/1.21	0.97/0.18	-0.43/-0.68	-0.38/0.40	1.67/1.70	0.74/-0.01	0.33/0.34	0.55/0.99	1.10/0.35	-1.75/-3.72	-4.86/-4.50	-2.78/-1.66	-1.55/-0.99	-0.27/0.79	0.52/0.33	-0.19/-0.61
θ(52.5°)	-0.84/-0.72	-0.77/-1.11	-1.36/-2.52	-3.24/-3.91	-4.60/-4.08	-3.94/-2.82	-1.88/-1.04	0.21/1.13	1.23/0.87	-0.19/-1.66	-1.75/-1.16	-0.30/-0.92	1.03/-0.72	1.65/-1.38	-0.85/-0.32	1.45/2.62	2.46/1.80	0.50/-0.78	-1.64/-2.71	-2.97/-1.87	-0.91/-0.08	0.43/-0.27	0.85/-0.24	-0.51/-1.00
θ(60°)	-0.47/0.18	-0.12/-0.42	-1.50/-4.23	-4.71/-4.54	-3.91/-2.52	-1.40/-2.23	-3.67/-2.76	-0.40/1.13	1.81/1.89	-1.10/0.27	0.06/0.22	1.05/0.69	0.27/-0.99	-1.09/-0.87	-0.16/0.55	1.55/1.39	1.46/0.53	-0.32/-1.08	-2.53/-3.43	-3.38/-3.16	-1.83/-1.38	-0.11/0.62	-0.15/-0.17	-0.23/-0.18
θ(67.5°)	-1.92/-1.97	-0.33/0.48	-0.55/-2.25	-4.45/-6.33	-4.93/-2.18	-1.59/-2.56	-4.34/-2.94	-0.27/1.20	1.87/1.27	0.41/0.22	1.25/2.10	2.68/2.27	2.24/1.89	1.74/0.48	-0.37/-1.24	-1.97/-2.04	0.33/0.35	-1.18/2.13	-4.05/-4.76	-5.08/-4.57	-4.29/-3.44	-2.32/-0.30	1.12/-0.58	-1.68/-1.22
θ(75°)	-2.60/-3.22	-0.37/-0.23	-1.51/-2.86	-4.53/-7.71	-7.02/-3.94	-2.60/-3.60	-4.51/-2.15	0.09/0.89	2.06/1.65	1.07/1.14	2.28/2.62	2.43/2.62	2.04/2.14	1.59/1.26	0.54/-0.45	-2.86/-0.87	-0.10/-0.08	-1.20/-2.99	-4.14/-4.10	-4.68/-3.80	-3.18/-2.48	-1.61/0.57	-0.29/-1.36	-4.02/-3.56
θ(82.5°)	-5.15/-3.25	-0.73/-0.89	-1.15/-4.18	-8.51/-9.97	-7.31/-1.75	-4.12/-3.25	-4.82/-2.19	0.16/0.71	0.84/0.88	1.92/2.26	2.75/3.14	2.39/1.71	0.85/1.04	1.76/1.99	1.31/0.24	-3.37/-0.52	1.33/1.79	0.62/-1.18	-3.05/-3.58	-3.48/-1.56	-3.51/-4.71	-4.44/-0.78	-2.27/-2.42	-6.49/-6.54
θ(90°)	-5.01/-4.81	-2.14/-2.13	-1.79/-2.27	-7.21/-7.44	-4.81/-1.78	-2.43/-2.07	-0.47/0.57	1.95/2.36	2.08/-0.29	0.32/1.97	3.09/3.38	2.43/1.71	1.31/2.11	2.50/1.67	0.12/-3.52	-3.91/0.46	2.07/1.86	-1.24/-4.52	-3.73/-0.78	-0.93/0.28	-0.48/-2.00	-4.96/-2.32	-1.77/-1.78	-8.86/-6.60
θ(97.5°)	-4.75/-6.01	-2.04/-2.94	-3.87/-4.92	-6.85/-6.80	-3.92/-1.60	-2.84/-3.54	-1.07/0.48	1.50/1.43	1.62/0.56	1.15/2.85	3.83/3.37	2.56/2.28	2.29/2.34	2.05/1.66	-0.19/-2.85	-4.01/-1.29	-0.11/0.29	-1.11/-2.38	-0.23/-0.62	-0.32/-1.01	-1.98/-4.04	-4.38/-4.99	-4.31/-3.69	-11.78/-6.78
θ(105°)	-9.15/-5.83	-1.14/-0.74	-3.69/-7.15	-8.99/-4.47	-3.55/-0.23	-2.61/-0.24	1.14/-1.98	0.61/0.48	1.49/3.41	4.12/3.08	2.16/1.32	0.28/1.35	0.91/0.37	0.07/-2.36	-3.53/-2.30	-1.02/-0.42	-1.49/0.60	-1.87/-1.39	-0.66/-0.35	-1.70/-1.66	-7.21/-3.91	-8.82/-10.13		
θ(112.5°)	-5.86/-5.26	-2.32/-4.74	-8.17/-6.68	-5.64/-1.50	-0.71/-0.62	-0.54/-1.43	-1.18/0.44	2.21/2.00	0.95/0.49	1.27/3.17	3.43/3.31	3.22/1.71	0.67/1.53	2.14/1.95	0.08/-3.49	-9.30/-8.46	-7.89/-7.23	-5.08/-5.17	-2.23/-3.24	-7.25/-5.19	-4.97/-7.00	-7.34/-5.13	-5.47/-4.98	-13.73/-11.16
θ(120°)	-4.11/-3.80	-4.21/-4.68	-6.85/-5.10	-2.60/-2.22	-0.71/-1.92	-4.00/-4.21	-0.86/1.30	1.80/1.44	0.82/-0.41	0.78/2.00	3.30/4.01	3.83/2.52	0.76/-0.50	0.05/0.65	-0.81/-2.25	-6.68/-6.26	-6.28/-10.02	-11.21/-12.83	-9.19/-12.27	-10.41/-6.19	-4.33/-6.17	-6.53/-9.27	-5.37/-2.25	-10.72/-8.21
θ(127.5°)	-1.35/-1.82	-3.43/-5.58	-10.32/-12.10	-7.16/-3.20	-1.89/-2.84	-6.14/-9.38	-4.75/-0.88	0.60/0.68	-0.40/-1.13	-0.16/1.88	4.05/4.16	2.88/2.10	3.02/2.52	1.78/-1.08	-1.78/-1.26	-14.96/-6.44	-8.31/-7.51	-8.40/-8.12	-9.47/-6.82	-6.66/-8.91	-1.07/-5.82	-7.17/-9.52	-6.44/-4.69	-14.00/-4.92



Antenna Pattern of 6GHz

Appendix D

Θ (112.5°)	-7.09/-6.70	-1.27/-1.50	2.91/-1.42	-2.91/-0.55	1.99/-0.35	0.21/-1.51	0.04/-1.45	1.81/-1.31	2.19/-1.55	-0.80/-2.33	-3.80/-7.72	-9.17/-7.09	-6.06/-4.90	-2.20/-3.63	-9.60/-3.65	-3.56/-3.47	-1.53/-2.31	-5.96/-0.13	0.31/-0.89	-2.68/-5.71	-5.55/-1.13	-3.87/-9.69	-7.51/-5.95	-1.71/-2.84
Θ (120°)	-5.50/-6.44	-0.53/-2.22	3.27/-2.52	-0.25/-0.61	0.90/-0.24	-1.93/-0.18	0.80/-0.18	0.33/-0.30	-0.27/-0.51	-0.66/-2.64	-7.96/-10.97	-6.16/-8.89	-11.55/-4.91	-5.61/-6.02	-7.77/-3.48	-4.63/-6.73	-5.22/-3.77	-4.83/-7.68	-10.54/-10.04	-8.37/-14.53	-7.20/-2.37	-6.40/-3.24	-4.81/-10.84	-3.40/-4.63
Θ (127.5°)	-12.13/-5.31	0.38/-0.20	3.80/-2.76	0.50/-1.1	1.74/-1.05	0.82/-1.89	1.55/-0.76	1.89/-1.81	0.89/-0.21	0.14/-2.09	-5.33/-7.33	-7.32/-5.82	-9.94/-3.50	0.91/-0.78	-0.11/-0.17	-5.59/-5.48	-10.41/-3.77	-5.67/-4.70	-6.89/-6.07	-5.04/-11.44	-8.57/-10.68	-5.27/-2.52	-0.79/-4.43	
Θ (135°)	-0.49/-0.28	1.38/-0.86	2.32/-2.42	1.47/-1.22	2.03/-2.26	1.90/-3.13	3.86/-2.58	1.50/-2.30	1.90/-1.07	-0.41/-2.00	-3.93/-3.14	-3.16/-3.25	-3.79/-3.84	-0.86/-0.58	-3.12/-7.71	-13.88/-2.63	-2.96/-2.25	-6.04/-5.23	-4.63/-8.46	-9.43/-7.68	-7.49/-10.99	-10.72/-6.34	-6.16/-4.02	-4.29/-8.06
Θ (142.5°)	0.85/-0.68	1.45/-0.63	0.62/-0.48	1.65/-1.81	1.86/-0.17	-1.05/-0.93	2.34/-1.58	-0.87/-2.85	-3.84/-2.34	-0.41/-0.35	-1.76/-5.28	-4.12/-3.57	-2.38/-5.30	-9.30/-13.37	-11.88/-10.85	-8.35/-1.17	-12.42/-16.08	-14.53/-11.46	-8.97/-12.55	-16.02/-11.86	-10.26/-7.43	-4.46/-3.76	-2.13/-0.51	-1.10/-0.09
Θ (150°)	-3.54/-3.36	-0.04/-3.92	-4.21/-5.82	-4.56/-3.10	-2.71/-3.54	-5.05/-6.36	-5.58/-4.94	-5.02/-5.95	-8.31/-8.68	-5.89/-2.79	-2.09/-1.95	-1.33/-1.20	-1.94/-5.76	-6.26/-2.20	0.04/-0.17	-0.45/-1.46	-2.54/-4.99	-8.91/-13.35	-14.22/-10.94	-14.25/-12.98	-7.45/-5.30	-3.48/-4.15	-6.33/-6.54	-6.96/-5.15
Θ (157.5°)	-0.96/-0.87	-1.98/-3.16	-4.37/-3.60	-0.64/-1.77	3.13/-3.42	2.44/-0.51	-0.74/-0.04	1.65/-2.53	1.92/-0.38	-1.28/-2.96	-3.64/-4.27	-5.43/-3.51	-1.25/-0.30	0.53/-1.06	0.42/-1.01	-1.57/-2.02	-2.86/-4.12	-4.91/-6.18	-8.73/-11.46	-13.98/-8.97	-4.41/-2.93	-2.36/-1.39	-1.20/-1.53	-1.84/-1.69
Θ (165°)	-0.54/-0.15	0.55/-1.12	1.78/-2.22	2.89/-3.72	4.10/-4.08	3.86/-3.50	3.02/-2.67	2.76/-2.99	3.29/-3.56	3.49/-3.15	2.78/-2.93	2.99/-2.81	1.93/-0.34	-1.72/-4.06	-6.24/-5.90	-4.76/-5.92	-6.88/-8.86	-5.99/-4.23	-3.26/-3.59	-3.52/-2.32	-2.14/-2.90	-3.05/-2.61	-3.88/-6.65	-6.37/-2.84
Θ (172.5°)	3.23/-3.90	4.26/-4.52	4.83/-5.01	5.01/-4.87	4.82/-4.59	4.11/-3.49	3.10/-2.73	2.26/-1.74	1.50/-1.84	2.48/-3.15	3.34/-2.72	1.33/-0.94	-3.68/-5.26	-4.69/-3.69	-2.98/-2.46	-2.51/-3.28	-4.58/-5.44	-5.17/-4.19	-3.06/-1.89	-1.69/-2.14	-2.19/-1.65	-1.00/-0.68	-0.47/-0.30	1.30/-2.31
Θ (180°)	2.11/-1.91	1.61/-1.32	1.09/-1.05	1.19/-1.24	1.29/-1.50	1.87/-2.21	2.30/-2.55	2.47/-2.27	2.30/-1.95	1.26/-0.70	0.39/-0.02	-0.79/-1.00	-0.10/-1.02	1.18/-0.40	-0.13/-0.62	-1.42/-1.58	-0.20/-1.46	2.28/-2.44	2.53/-2.33	1.97/-1.82	1.98/-2.08	1.91/-1.56	1.63/-1.91	1.90/-2.05
Freq(Hz)	6.075GPol.	TotalAnt.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ (0°)	1.76/-1.64	1.66/-1.73	1.52/-1.45	1.61/-1.76	1.82/-1.79	1.84/-1.87	1.87/-1.75	1.62/-1.56	1.24/-1.35	1.45/-1.52	1.35/-1.38	1.53/-1.92	2.40/-2.66	2.65/-2.21	1.60/-1.40	1.69/-1.63	1.02/-0.89	0.99/-1.01	1.26/-1.88	1.93/-1.71	1.48/-1.48	1.42/-1.06	0.83/-1.02	1.35/-1.54
Θ (7.5°)	0.87/-0.68	0.55/-0.36	0.41/-0.84	1.20/-1.29	1.59/-2.01	2.26/-2.46	2.61/-2.69	2.73/-2.67	2.75/-2.78	2.60/-2.31	1.80/-2.01	2.67/-3.11	3.33/-2.90	2.30/-1.50	1.05/-0.97	0.80/-0.61	0.69/-0.46	0.05/-0.35	-0.65/-0.37	0.50/-0.69	0.44/-0.69	1.12/-1.14	0.88/-0.86	0.77/-0.66
Θ (15°)	-1.66/-1.74	-1.29/-2.09	-0.44/-0.50	1.51/-2.28	3.03/-3.69	3.99/-4.16	4.66/-4.90	4.95/-4.57	4.40/-4.64	4.53/-3.94	2.87/-3.05	3.65/-3.25	2.33/-1.12	-0.37/-1.06	-1.16/-1.46	-1.43/-0.78	-0.21/-0.01	0.02/-0.67	-1.29/-1.95	-2.74/-2.65	-1.70/-1.76	-1.54/-0.93	-0.83/-1.38	
Θ (22.5°)	-3.95/-4.61	-4.64/-2.51	-1.27/-0.17	1.14/-2.59	3.81/-4.42	4.38/-4.34	4.50/-4.54	4.69/-4.88	4.54/-4.42	4.35/-4.06	3.98/-3.74	2.77/-1.18	0.63/-0.41	0.95/-1.53	2.20/-2.82	2.81/-2.39	2.03/-1.92	1.81/-1.63	1.43/-0.92	0.05/-0.79	-2.20/-4.39	-5.92/-5.36	-4.89/-4.70	-4.42/-3.71
Θ (30°)	-12.16/-9.89	-7.75/-4.51	-2.01/-0.20	1.92/-2.94	3.57/-3.40	2.92/-2.90	3.12/-2.77	2.45/-2.77	2.87/-3.05	3.93/-4.36	3.91/-3.00	1.59/-1.03	2.07/-1.12	0.52/-0.15	-0.35/-0.52	0.65/-0.05	1.26/-1.33	1.56/-1.27	0.60/-0.20	-0.72/-1.30	-1.83/-2.78	-3.43/-4.62	-6.95/-6.83	-9.35/-10.83
Θ (37.5°)	-14.97/-15.94	-10.45/-5.05	-2.23/-0.47	2.26/-2.79	3.53/-4.40	2.97/-2.95	2.99/-2.74	2.10/-1.76	1.94/-2.34	3.25/-2.77	1.55/-2.76	2.86/-0.56	-1.60/-3.34	0.09/-1.05	1.47/-0.88	-0.15/-0.34	-0.54/-1.54	-2.56/-2.56	-2.95/-5.35	-8.39/-7.27	-4.42/-4.32	-2.61/-1.39	-2.26/-3.55	-6.50/-10.68
Θ (45°)	-14.38/-12.49	-9.65/-5.86	-2.71/-0.09	2.56/-2.82	3.33/-3.65	3.89/-4.38	4.32/-3.57	2.78/-2.40	1.06/-0.66	1.72/-2.42	2.65/-2.12	0.16/-0.68	1.12/-0.99	-1.72/-0.16	0.64/-0.47	0.06/-1.21	-2.64/-4.07	-6.82/-9.54	-4.91/-4.31	-10.08/-8.93	-8.22/-5.89	-4.98/-4.03	-3.53/-3.63	-5.30/-8.26
Θ (52.5°)	-8.07/-10.63	-9.20/-5.59	-1.60/-0.43	0.50/-1.48	3.03/-4.10	4.46/-4.75	4.51/-3.66	2.91/-2.00	0.94/-1.12	1.36/-1.62	1.53/-2.07	1.15/-0.72	-3.12/-3.16	0.68/-2.51	2.61/-2.17	-1.59/-1.43	-2.07/-3.45	-4.49/-1.25	-0.49/-1.49	-1.40/-1.92	-4.83/-4.53	-3.31/-3.83	-4.32/-4.85	-6.06/-5.37
Θ (60°)	-6.14/-8.10	-6.41/-8.35	-7.67/-5.40	-2.27/-0.36	1.82/-2.40	4.01/-3.55	3.34/-3.31	3.03/-1.95	-0.62/-2.09	-3.20/-0.70	0.94/-0.85	-1.64/-0.54	-3.34/-5.45	-1.51/-1.12	0.17/-2.66	-2.14/-3.25	-2.05/-3.36	-3.22/-0.05	0.82/-0.00	0.11/-0.17	0.06/-0.55	-1.80/-1.66	-2.06/-2.93	-5.69/-6.60
Θ (67.5°)	-5.95/-8.13	-7.02/-6.06	-8.81/-8.75	-4.30/-0.67	0.80/-1.62	2.29/-3.52	3.60/-2.43	2.43/-2.54	0.55/-1.51	-3.47/-1.01	0.60/-0.15	-2.92/-2.50	-2.79/-5.71	-2.06/-0.27	-2.61/-5.27	-3.32/-4.62	-10.17/-9.84	-4.41/-0.84	0.99/-0.65	1.24/-0.65	-1.30/-1.53	-1.43/-2.70	-4.05/-5.66	-7.03/-6.52
Θ (75°)	-8.73/-6.97	-5.68/-3.87	-4.80/-8.41	-4.45/-1.58	-0.26/-0.78	1.89/-2.08	0.94/-0.25	1.07/-0.21	-2.73/-1.45	-1.44/-0.64	-1.73/-4.70	-3.24/-2.57	-0.55/-0.69	-1.11/-2.09	0.93/-1.96	-5.39/-4.10	-1.25/-2.35	-1.91/-3.60	-2.79/-1.92	0.74/-0.81	-0.56/-4.31	-3.80/-4.16	-7.76/-9.50	
Θ (82.5°)	-9.68/-9.04	-6.00/-1.76	-1.39/-6.11	-4.24/-4.40	-0.96/-0.31	0.86/-1.16	0.82/-0.41	-0.28/-2.27	-2.37/-1.61	-1.85/-3.33	-2.48/-1.68	-4.08/-5.31	-5.67/-5.96	-5.05/-0.67	-2.78/-2.95	-3.70/-2.06	-2.89/-3.32	-1.53/-0.30	1.17/-0.74	-1.02/-0.39	0.16/-1.97	-0.80/-3.83	-2.93/-3.14	-2.15/-1.03
Θ (90°)	-10.56/-5.43	-3.97/-0.12	-0.35/-3.10	-3.54/-0.89	-0.41/-0.31	-0.48/-0.35	0.44/-0.58	-0.11/-0.81	-2.72/-2.30	-1.91/-0.95	-3.15/-2.85	-4.58/-4.65	-4.14/-2.05	-1.26/-1.99	-3.65/-5.66	-3.72/-1.34	-3.51/-8.53	-2.95/-0.63	-1.17/-3.35	-1.95/-0.12	0.77/-0.42	-2.43/-6.08	-1.98/-3.79	-2.43/-8.00
Θ (97.5°)	-5.19/-5.29	-3.70/-0.56	0.40/-2.01	-2.96/-3.53	-1.41/-0.41	-0.48/-0.53	-0.44/-0.42	-1.49/-3.46	-2.33/-1.64	-1.77/-1.44	-6.58/-2.66	-3.91/-7.38	-4.59/-1.85	-3.75/-6.43	-2.90/-3.45	-2.90/-1.10	-2.59/-3.15	0.36/-0.01	1.67/-1.68	-0.86/-0.05	0.64/-0.25	-3.01/-3.09	-3.04/-7.17	
Θ (105°)	-7.72/-7.90	-5.06/-0.96	1.96/-1.30	-3.12/-1.96	1.79/-0.37	-3.29/-0.99	-2.13/-1.72	-3.72/-3.50	-4.38/-2.74	-2.02/-3.11	-7.44/-7.23	-2.81/-5.24	-3.76/-1.54	-2.46/-1.36	-1.75/-2.15	-3.38/-1.32	-1.84/-3.82	-3.76/-4.36	-3.37/-6.33	-2.07/-4.19	-3.54/-2.57	-5.51/-14.43	-9.46/-7.40	-2.51/-4.26
Θ (112.5°)	-6.59/-8.47	-1.83/-1.49	2.68/-1.00	-3.39/-0.50	2.55/-0.09	0.71/-0.46	-1.42/-3.10	-3.60/-1.90	-0.33/-0.23	-0.72/-3.62	-6.63/-7.53	-7.35/-5.79	-2.71/-2.43	-1.08/-1.39	-2.53/-6.00	-6.71/-5.01	-2.53/-2.03	-5.66/-2.26	-2.52/-2.75	-3.83/-11.46	-4.71/-6.19	-6.96/-6.58	-7.74/-7.07	-1.58/-2.36
Θ (120°)	-4.81/-2.41	-0.36/-2.47	3.37/-2.39	-1.84/-0.10	1.08/-2.05	-1.64/-1.52	-4.49/-1.27	0.09/-1.04	0.80/-1.85	-1.15/-4.88	-6.73/-6.75	-8.91/-10.65	-7.18/-4.42	-3.41/-1.76	-3.68/-2.56	-7.15/-6.37	-3.55/-3.00	-3.67/-9.94	-9.20/-7.35	-8.65/-9.92	-6.05/-9.42	-6.21/-3.74	-4.86/-6.62	-0.96/-1.35
Θ (127.5°)	-3.80/-3.65	-0.63/-2.29	3.00/-0.27	-3.98/-0.58	1.01/-0.03	0.07/-0.37	-0.96/-0.12	1.37/-0.01	-2.22/-1.71	-2.12/-2.56	-4.89/-12.67	-8.78/-3.43	-7.45/-7.28	-0.97/-1.14	0.91/-0.63	-5.70/-5.67	-4.35/-1.45	-4.66/-4.43	-5.73/-10.46	-4.96/-6.20	-7.29/-5.95	-6.77/-2.69	-3.22/-1.69	0.63/-4.43
Θ (135°)	-1.28/-1.48	-1.22/-0.69	1.54/-0.62	-0.83/-0.94	2.38/-1.37	0.88/-1.91	1.35/-0.79	0.08/-1.45	-0.60/-5.34	-5.13/-3.23	-2.64/-4.26	-4.97/-4.30	-4.11/-4.44	-2.10/-1.03	-0.60/-1.40	-6.13/-10.55	-4.11/-2.19	-6.11/-6.97	-6.68/-8.17	-3.81/-6.07	-10.99/-8.85	-14.84/-10.85	-8.62/-6.06	-7.11/-4.04
Θ (142.5°)	0.98/-0.87	0.25/-0.24	-0.47/-0.20	0.83/-2.58	2.29/-2.42	-0.67/-1.09	1.67/-4.06	-3.61/-3.62	-4.04/-4.74	-5.58/-5.32	-5.05/-7.66	-8.91/-8.03	-7.39/-4.10	-6.37/-8.96	-12.04/-7.21	-4.54/-4.95	-8.89/-13.83	-15.48/-13.23	-7.21/-10.98	-11.78/-8.95	-9.57/-8.50	-5.83/-4.10	-2.19/-2.41	-1.64/-0.50
Θ (150°)	-3.08/-5.26	-7.16/-6.01	-4.85/-3.11	-0.97/-0.12	-0.77/-3.63	-6.29/-3.90	-2.14/-3.18	-7.50/-8.89	-5.10/-2.94	-2.58/-3.70	-2.85/-2.68	-2.29/-2.71	-5.03/-7.76	-11.63/-9.99	-4.68/-2.48	-2.15/-3.36	-3.07/-4.25	-7.30/-9.94	-11.67/-9.37	-9.22/-7.72	-6.84/-3.95	-4.00/-5.77	-6.75/-6.25	-3.93/-2.89
Θ (157.5°)	-3.17/-3.59	-4.20/-4.99	-4.80/-8.41	1.31/-2.43	2.64/-1.87	0.14/-1.28	-0.72/-0.59	1.21/-1.34	-0.09/-2.73	-4.98/-6.02	-5.52/-4.98	-5.79/-6.41	-3.40/-4.39	-0.03/-0.35	-0.26/-0.21	-0.76/-1.08	-1.17/-2.39	-4.57/-5.08	-5.73/-9.95	-15.32/-12.83	-9.22/-5.56	-3.79/-3.10	-3.42/-5.33	-1.77/-4.35
Θ (165°)	-3.53/-1.45	-0.20/-0.25	0.58/-1.20	2.16/-2.46	2.20/-1.68	1.27/-0.97	0.82/-0.75	1.55/-2.58	3.30/-3.27	2.49/-1.65	1.54/-1.55	1.29/-0.97	0.58/-0.35	-2.70/-5.81	-7.32/-7.55	-6.61/-6.76	-6.22/-9.03	-8.01/-5.01	-3.99/-2.87	-1.80/-2.14	-3.42/-4.38	-6.08/-7.74	-6.38/-6.47	-6.21/-4.75
Θ (172.5°)	2.51/-2.85																							

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

