

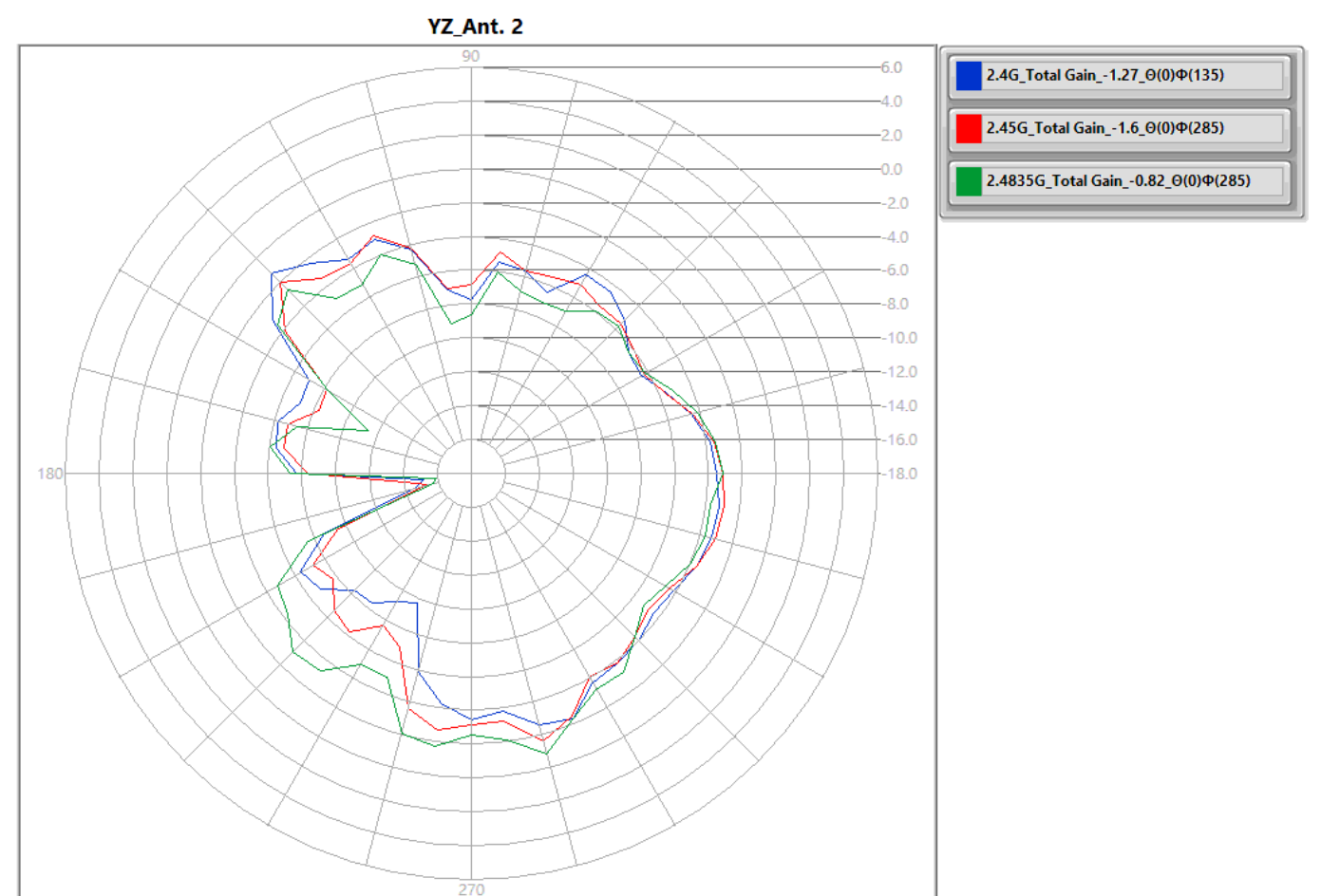
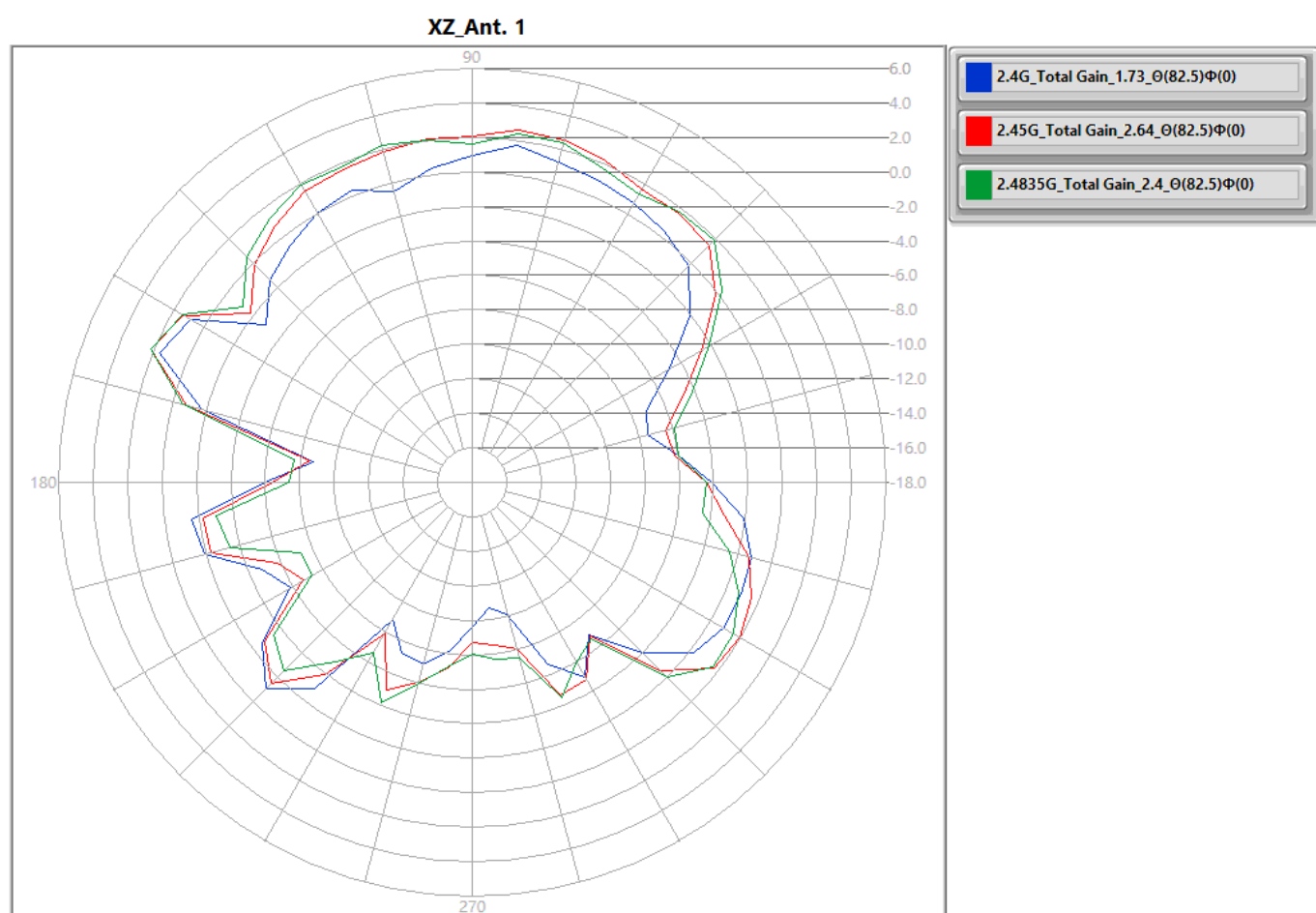
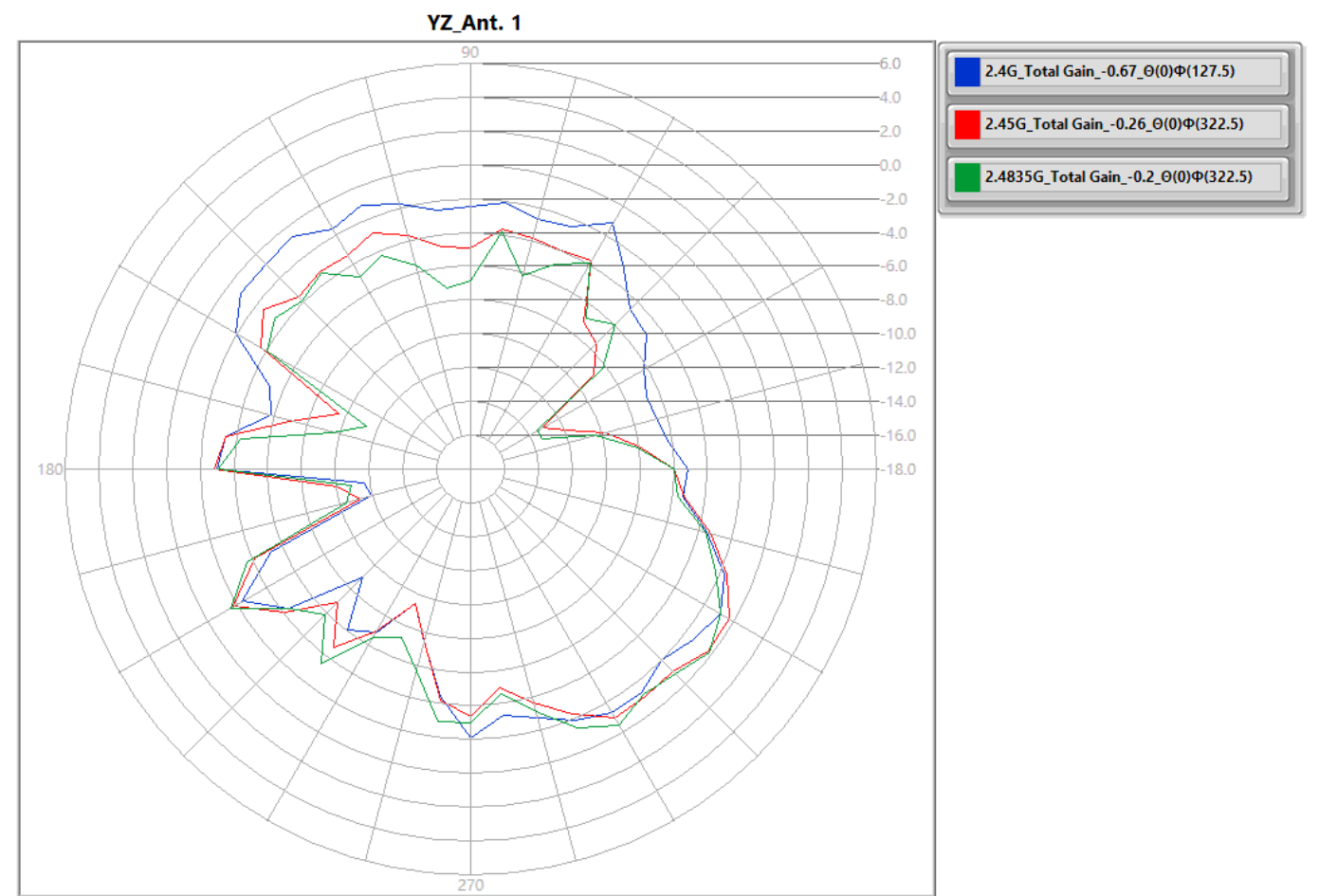
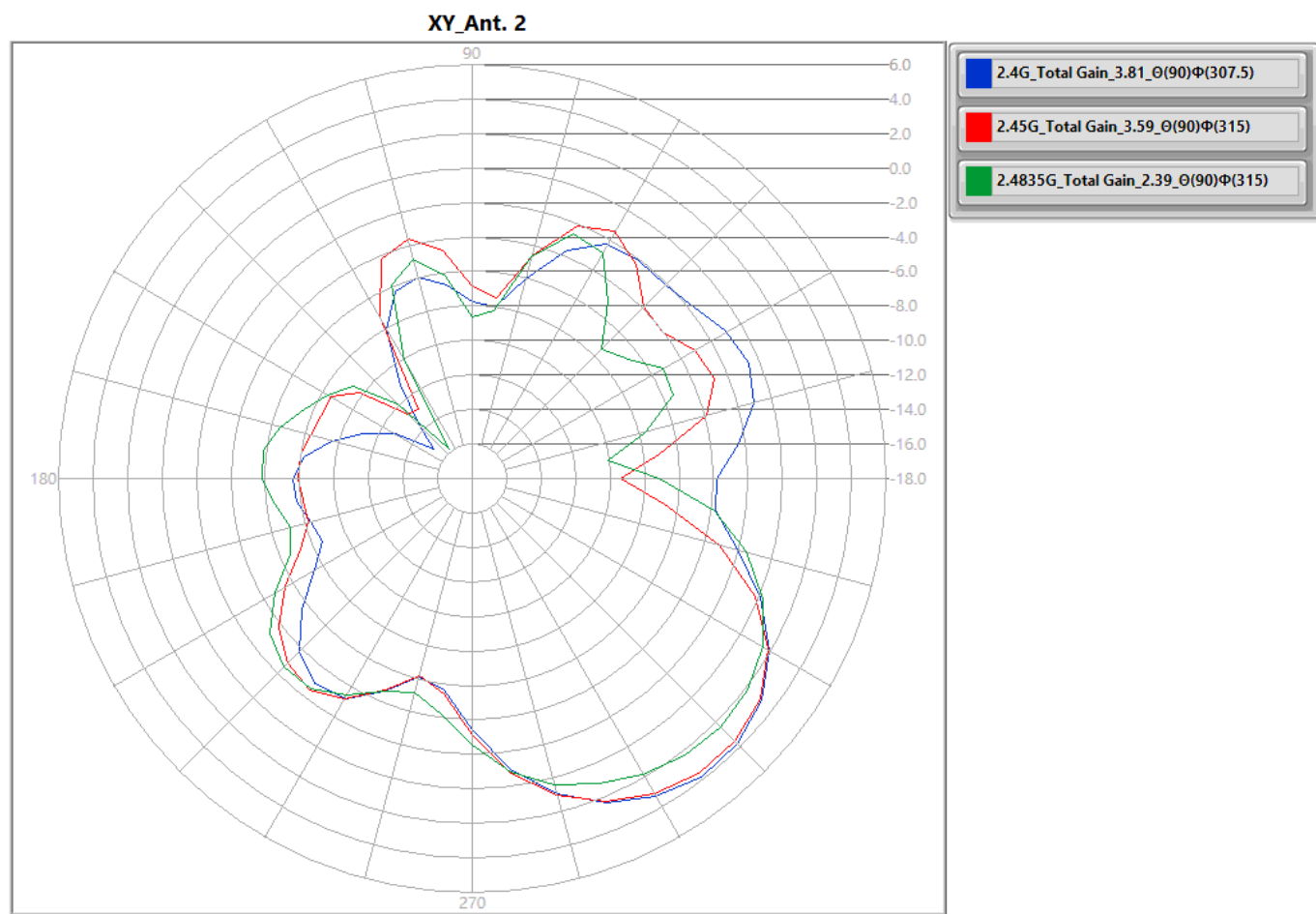
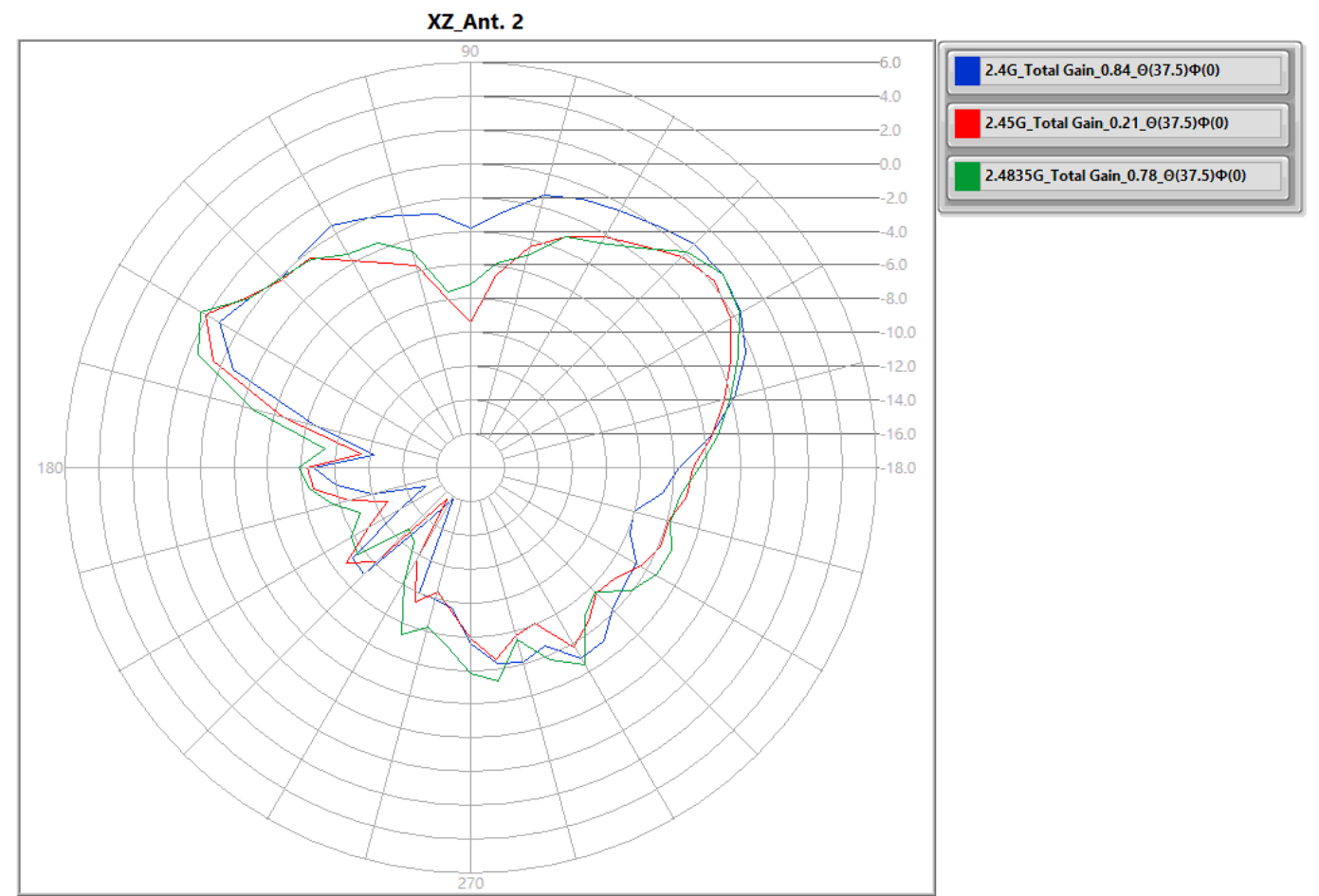
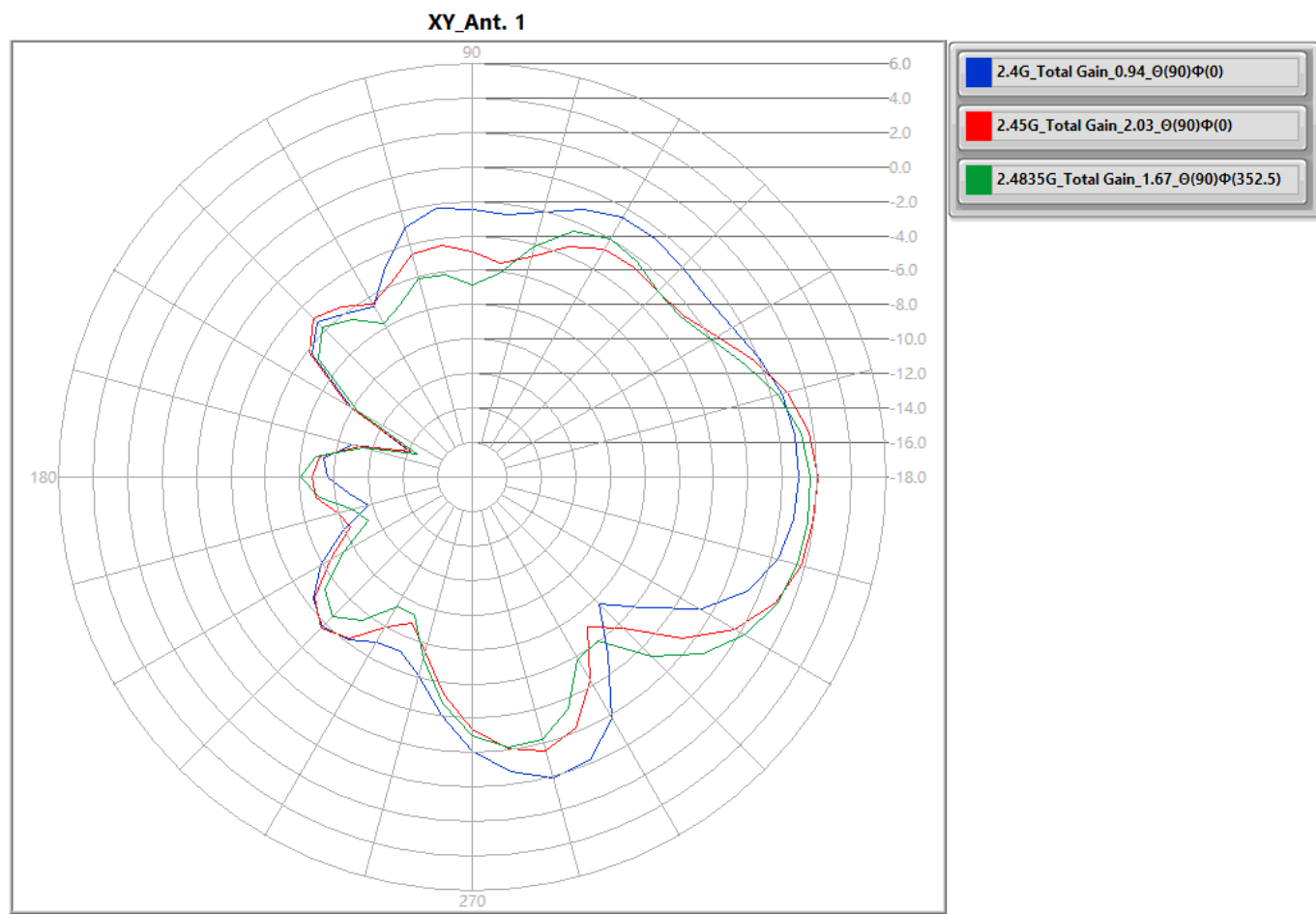


Antenna Pattern_2.4GHz

Appendix C

Θ (22.5°)	-1.33/-1.81	-2.28/-2.63	-2.81/-2.93	-3.07/-3.38	-3.91/-4.53	-4.99/-5.28	-5.62/-5.93	-6.53/-7.63	-8.60/-9.16	-8.99/-8.20	-7.29/-6.49	-6.02/-5.87	-5.84/-5.95	-5.97/-5.92	-5.73/-5.47	-5.16/-4.90	-4.70/-4.50	-4.26/-3.96	-3.58/-3.15	-2.57/-1.92	-1.32/-0.83	-0.53/-0.36	-0.32/-0.44	-0.65/-0.99
Θ (30°)	-0.27/-0.74	-1.19/-1.53	-1.81/-2.08	-2.40/-2.93	-3.66/-4.52	-5.29/-5.88	-6.21/-6.60	-7.02/-7.78	-8.62/-9.40	-9.67/-8.70	-7.50/-6.77	-6.21/-6.17	-6.37/-6.59	-6.73/-6.68	-6.55/-6.33	-6.08/-5.88	-5.81/-5.72	-5.50/-5.07	-4.43/-3.56	-2.57/-1.59	-0.76/-0.11	0.35/0.65	0.74/0.70	0.50/0.14
Θ (37.5°)	0.21/-0.14	-0.41/-0.70	-1.05/-1.49	-1.97/-2.53	-3.19/-3.93	-4.60/-5.31	-5.91/-6.26	-6.62/-6.97	-7.51/-8.07	-8.47/-8.28	-7.40/-6.59	-6.37/-6.70	-7.23/-7.67	-7.70/-7.39	-6.89/-6.49	-6.15/-5.98	-6.04/-6.22	-6.21/-5.75	-4.78/-3.53	-2.27/-1.14	-0.21/0.57	1.12/1.45	1.54/1.42	1.09/0.65
Θ (45°)	-0.38/-0.52	-0.60/-0.88	-1.45/-2.14	-2.62/-2.82	-2.89/-3.06	-3.54/-4.41	-5.49/-6.31	-6.86/-7.36	-7.88/-8.18	-8.10/-7.43	-6.51/-5.82	-5.80/-6.43	-7.48/-8.56	-9.10/-8.73	-7.75/-6.71	-5.81/-5.37	-5.45/-5.85	-6.16/-5.63	-4.33/-2.75	-1.30/-0.08	0.86/1.57	1.96/2.05	1.84/1.36	0.71/0.03
Θ (52.5°)	-1.45/-1.20	-1.03/-1.32	-2.12/-3.04	-3.43/-3.05	-2.51/-2.45	-3.05/-4.21	-5.51/-6.38	-7.00/-7.81	-8.68/-8.73	-7.86/-6.50	-5.33/-4.67	-4.76/-5.40	-6.53/-7.94	-8.35/-10.14	-9.37/-7.74	-6.36/-6.79	-6.06/-6.68	-6.97/-5.90	-3.90/-1.85	-0.13/-1.18	2.06/2.58	2.66/2.36	1.68/0.68	-0.44/-1.26
Θ (60°)	-2.18/-1.80	-1.48/-1.74	-2.71/-3.98	-4.26/-3.17	-2.13/-1.94	-2.74/-4.11	-5.13/-5.25	-5.25/-6.21	-8.25/-9.72	-9.20/-7.56	-6.09/-5.14	-4.89/-5.20	-5.76/-6.30	-6.80/-7.01	-6.67/-5.87	-5.21/-5.12	-5.96/-7.17	-7.94/-6.75	-4.09/-1.62	0.25/1.56	2.44/2.90	2.95/2.52	1.58/0.27	-1.12/-2.05
Θ (67.5°)	-3.18/-2.54	-1.78/-1.68	-2.47/-3.70	-3.78/-2.36	-1.33/-1.50	-2.84/-4.65	-5.47/-5.13	-4.89/-5.96	-8.83/-12.04	-11.46/-9.03	-7.37/-6.50	-6.53/-7.29	-8.04/-8.09	-7.14/-5.62	-4.13/-3.11	-2.67/-2.82	-3.70/-4.87	-5.59/-4.64	-2.50/-0.57	0.88/1.87	2.80/3.06	3.14/2.82	1.93/0.53	-1.25/-2.72
Θ (75°)	-4.43/-3.23	-1.77/-1.24	-1.87/-3.27	-4.15/-3.16	-2.11/-2.41	-3.97/-5.57	-5.62/-4.81	-4.83/-6.19	-10.01/-14.94	-12.65/-9.45	-7.69/-6.55	-6.18/-6.59	-7.69/-9.34	-10.29/-8.57	-5.88/-3.90	-2.83/-2.59	-3.25/-4.42	-4.96/-3.57	-1.60/-0.02	1.14/2.04	2.78/3.30	3.45/3.15	2.31/0.75	-1.42/-3.66
Θ (82.5°)	-6.51/-5.13	-3.32/-2.76	-3.68/-5.39	-5.92/-3.55	-1.84/-1.89	-3.47/-5.07	-4.80/-3.52	-3.15/-4.48	-8.51/-13.42	-11.42/-8.89	-7.83/-7.03	-6.52/-6.26	-6.52/-7.28	-7.99/-7.39	-5.65/-3.95	-2.86/-2.78	-3.68/-5.51	-6.69/-5.50	-3.24/-1.33	0.35/1.65	2.65/3.31	3.44/3.02	1.95/0.16	-2.31/-4.99
Θ (90°)	-8.35/-7.04	-3.96/-2.77	-3.08/-4.06	-3.91/-2.35	-1.46/-2.12	-4.62/-7.46	-6.82/-4.66	-3.59/-4.24	-7.23/-12.92	-12.78/-9.78	-8.56/-8.54	-8.28/-7.98	-7.88/-8.12	-8.13/-7.24	-5.49/-3.84	-2.82/-2.53	-3.20/-4.73	-6.15/-5.41	-3.12/-0.79	1.00/2.23	3.07/3.57	3.59/3.04	1.78/0.23	-3.12/-6.78
Θ (97.5°)	-8.05/-5.35	-2.53/-1.44	-1.71/-2.88	-3.48/-2.99	-2.85/-4.05	-6.93/-8.67	-7.02/-5.10	-4.28/-5.06	-8.03/-12.86	-14.36/-11.48	-10.45/-10.54	-10.84/-10.04	-9.40/-8.83	-7.77/-6.27	-4.51/-3.17	-2.58/-2.55	-3.37/-5.05	-6.39/-5.14	-2.71/-0.56	0.89/1.83	2.52/3.05	3.19/2.76	1.65/-0.23	-2.99/-6.30
Θ (105°)	-5.64/-4.77	-2.87/-2.04	-2.37/-2.93	-2.33/-0.90	-0.33/-1.29	-3.44/-4.91	-4.26/-3.02	-2.45/-3.13	-5.57/-9.47	-11.50/-10.33	-9.14/-8.61	-9.11/-9.82	-10.40/-10.95	-10.35/-8.10	-5.74/-4.03	-3.06/-2.90	-3.72/-5.93	-7.52/-6.03	-3.63/-1.56	-0.11/0.86	1.73/2.52	2.89/2.65	1.73/0.23	-1.85/-4.19
Θ (112.5°)	-4.87/-3.89	-2.16/-1.38	-1.69/-1.96	-1.08/0.24	0.72/0.04	-1.75/-3.09	-2.80/-1.78	-1.22/-1.71	-3.53/-6.48	-9.50/-11.03	-10.07/-8.73	-7.94/-8.43	-9.37/-10.10	-10.06/-8.42	-6.11/-4.28	-3.08/-2.77	-4.04/-7.55	-11.41/-10.00	-6.88/-3.95	-1.63/-0.09	1.11/2.11	2.64/2.48	1.54/-0.03	-2.03/-3.92
Θ (120°)	-3.84/-2.94	-1.71/-1.38	-2.22/-3.61	-3.74/-2.46	-1.49/-1.63	-2.73/-3.81	-3.70/-2.87	-2.44/-2.93	-4.46/-6.33	-9.09/-10.74	-10.65/-9.95	-9.68/-10.25	-11.66/-12.59	-11.99/-9.12	-6.15/-4.02	-2.60/-2.09	-3.01/-5.55	-8.92/-10.07	-7.64/-4.31	-1.62/0.19	1.41/2.33	2.77/2.59	1.64/0.06	-1.83/-3.37
Θ (127.5°)	-2.39/-1.68	-1.00/-0.97	-2.00/-4.10	-5.78/-5.19	-3.83/-3.44	-3.80/-4.00	-3.46/-2.81	-2.77/-3.60	-5.32/-7.57	-9.66/-10.51	-10.38/-10.99	-12.80/-15.24	-15.69/-14.81	-12.13/-9.39	-6.86/-5.12	-4.05/-3.84	-4.74/-6.79	-8.90/-8.68	-6.18/-3.18	-0.77/0.78	1.78/2.44	2.75/2.57	1.79/0.43	-1.19/-2.30
Θ (135°)	-2.22/-1.88	-1.40/-1.32	-1.91/-3.20	-4.14/-3.93	-2.95/-2.18	-1.92/-1.99	-2.08/-2.15	-2.51/-3.27	-4.48/-5.73	-6.62/-6.82	-6.39/-6.39	-7.14/-8.42	-10.12/-10.47	-9.11/-7.22	-5.65/-4.65	-4.21/-4.48	-5.63/-7.40	-9.12/-8.98	-6.53/-3.70	-1.47/0.13	1.24/2.01	2.41/2.41	1.92/0.87	-0.56/-1.84
Θ (142.5°)	-1.46/-1.28	0.88/-0.63	-0.69/-1.11	-1.80/-2.55	-2.96/-3.00	-3.05/-3.44	-4.15/-5.15	-6.36/-7.77	-8.64/-8.66	-7.87/-7.22	-6.96/-6.66	-6.95/-7.86	-8.74/-8.85	-7.79/-6.45	-5.41/-4.71	-4.56/-5.00	-6.18/-7.88	-9.43/-9.61	-7.71/-5.12	0.27/-1.13	0.11/0.97	1.49/1.63	1.36/0.73	-0.23/-1.09
Θ (150°)	0.12/0.07	-0.07/-0.06	-0.41/-1.15	-2.40/-4.33	-6.50/-7.95	-8.03/-7.74	-8.11/-9.05	-10.47/-12.10	-12.89/-12.71	-12.02/-11.72	-11.77/-11.39	-10.90/-10.89	-11.08/-11.04	-9.35/-9.81	-8.49/-7.46	-6.92/-7.11	-7.97/-9.26	-9.96/-9.30	-2.78/-1.20	-0.07/0.68	1.11/1.36	1.31/1.08	1.31/0.32	
Θ (157.5°)	-1.49/-1.81	-2.19/-2.73	-3.52/-4.70	-6.44/-9.01	-11.84/-12.60	-10.22/-9.20	-8.24/-7.61	-7.22/-7.02	-7.19/-7.81	-8.84/-10.00	-10.92/-11.18	-11.17/-11.81	-12.73/-13.02	-14.06/-14.43	-14.10/-13.90	-13.69/-13.47	-14.11/-14.30	-14.41/-12.59	-9.49/-6.73	-4.57/-2.99	-1.93/-1.23	-0.81/-0.58	-0.50/-0.58	-0.82/-1.18
Θ (165°)	-6.56/-7.36	-8.17/-8.85	-9.47/-10.03	-10.35/-10.31	-9.91/-9.21	-8.36/-7.62	-6.71/-6.19	-5.73/-5.52	-5.58/-5.91	-6.46/-7.10	-7.72/-6.37	-8.93/-9.72	-10.50/-11.31	-12.24/-13.45	-15.00/-15.01	-15.48/-16.03	-16.25/-16.00	-15.47/-15.57	-15.33/-13.15	-10.63/-8.81	-7.49/-6.48	-5.87/-5.44	-5.18/-5.10	
Θ (172.5°)	-11.47/-11.35	-10.46/-10.30	-9.99/-9.33	-8.59/-7.94	-7.54/-7.38	-7.28/-7.09	-6.82/-6.49	-6.30/-6.26	-6.37/-6.53	-6.76/-7.02	-7.33/-7.64	-7.92/-8.25	-8.60/-8.95	-9.37/-9.98	-10.91/-11.87	-12.60/-13.06	-13.43/-14.08	-14.12/-13.91	-14.01/-13.66	-13.11/-13.04	-12.32/-11.68	-11.05/-10.82	-10.95/-11.03	-11.14/-11.41
Θ (180°)	-8.35/-7.86	-7.45/-7.24	-7.08/-6.88	-6.61/-6.40	-6.41/-6.74	-7.29/-7.88	-8.35/-8.65	-8.86/-9.07	-9.29/-9.36	-9.36/-9.37	-9.39/-9.27	-8.95/-8.53	-8.11/-7.96	-8.02/-8.36	-8.75/-9.29	-9.78/-10.06	-10.24/-10.43	-10.65/-10.82	-10.59/-10.63	-10.68/-10.54	-10.36/-10.03	-9.93/-9.92	-9.96/-9.90	-9.50/-8.93
Freq(Hz)	2.4835GPol.	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°)	-4.47/-4.67	-4.89/-5.17	-5.27/-5.22	-5.12/-4.77	-4.35/-4.08	-3.83/-3.55	-3.16/-2.93	-2.80/-2.84	-2.85/-2.94	-3.18/-3.32	-3.58/-3.84	-4.11/-4.37	-4.61/-4.86	-4.88/-4.83	-4.66/-4.65	-4.82/-4.84	-4.76/-4.63	-4.39/-4.18	-4.03/-3.84	-3.77/-3.70	-3.46/-3.44	-3.70/-3.81	-4.04/-4.26	-4.35/-4.43
Θ (7.5°)	-3.27/-3.47	-3.74/-4.17	-4.51/-4.51	-4.60/-4.50	-4.38/-4.22	-3.99/-3.72	-3.49/-3.41	-3.52/-3.41	-3.62/-3.81	-3.93/-4.07	-4.30/-4.59	-4.90/-5.21	-5.47/-5.48	-5.41/-5.45	-4.99/-5.04	-4.99/-4.82	-4.69/-4.59	-4.19/-4.07	-3.73/-3.48	-3.21/-2.97	-2.75/-2.50	-2.44/-2.60	-2.76/-2.93	-3.07/-3.19
Θ (15°)	-2.06/-2.31	-2.71/-3.23	-3.68/-3.82	-4.08/-4.21	-4.30/-4.28	-4.12/-4.04	-4.17/-4.54	-4.85/-5.25	-5.73/-5.78	-5.60/-5.32	-5.15/-5.07	-5.19/-5.52	-5.76/-5.51	-5.44/-5.35	-5.37/-5.28	-5.15/-5.02	-4.89/-4.68	-4.41/-4.06	-3.66/-3.25	-2.77/-2.33	-1.91/-1.60	-1.44/-1.39	-1.49/-1.62	-1.77/-1.92
Θ (22.5°)	-0.87/-1.24	-1.73/-2.28	-2.77/-3.04	-3.44/-3.74	-3.98/-4.12	-4.15/-4.42	-5.10/-6.09	-6.97/-8.01	-8.85/-8.67	-7.87/-6.76	-5.78/-5.18	-5.06/-5.03	-5.13/-5.35	-5.41/-5.44	-5.50/-5.55	-5.60/-5.64	-5.62/-5.48	-5.16/-4.67	-3.97/-3.24	-2.48/-1.75	-1.13/-0.63	-0.33/-0.19	-0.21/-0.33	-0.48/-0.66
Θ (30°)	0.38/0.03	-0.45/-0.98	-1.53/-2.06	-2.57/-3.11	-3.55/-3.89	-4.29/-5.00	-6.14/-7.32	-8.33/-9.29	-10.23/-10.15	-9.32/-7.79	-6.11/-5.36	-5.09/-5.21	-5.31/-5.28	-5.25/-5.28	-5.41/-5.69	-6.03/-6.31	-6.52/-6.55	-6.29/-5.64	-4.70/-3.65	-2.55/-1.56	-0.70/-0.01	0.46/0.74	0.82/0.78	0.73/0.59
Θ (37.5°)	0.78/0.40	0.02/-0.43	-0.96/-1.63	-2.32/-2.89	-3.36/-3.76	-4.28/-5.13	-6.28/-7.21	-7.99/-8.53	-8.79/-8.96	-8.75/-7.85	-6.74/-6.29	-6.24/-6.16	-5.99/-5.64	-5.32/-5.18	-5.30/-5.58	-5.96/-6.37	-6.89/-7.26	-7.17/-6.40	-5.18/-3.65	-2.58/-1.45	-0.47/0.36	0.98/1.36	1.50/1.47	1.34/1.11
Θ (45°)	0.09/-0.25	-0.45/-0.77	-1.41/-2.32	-3.16/-3.54	-3.45/-3.30	-3.52/-4.38	-5.66/-6.74	-7.52/-8.11	-8.68/-9.05	-8.77/-7.80	-6.92/-6.61	-6.81/-7.35	-7.62/-7.35	-6.72/-6.14	-5.69/-5.33	-5.13/-5.24	-5.70/-6.28	-6.40/-5.58	-4.29/-2.95	-1.75/-0.73	0.17/0.98	1.52/1.82	1.82/1.57	1.16/0.60
Θ (52.5°)	-1.64/-1.67	-1.43/-1.50	-2.15/-3.22	-4.05/-3.93	-3.12/-2.58	-2.91/-4.13	-5.95/-7.44	-8.38/-9.23	-10.06/-9.79	-8.55/-6.99	-5.77/-5.24	-5.43/-6.10	-6.94/-7.63	-8.00/-7.93	-7.17/-6.13	-5.35/-5.16	-5.51/-5.89	-5.73/-4.67	-3.19/-1.73	-0.48/0.55	1.31/1.87	2.13/2.09	1.70/0.99	0.05/-0.93
Θ (60°)	-2.62/-2.44	-1.85/-1.74	-2.44/-3.82	-4.98/-4.54	-3.25/-2.54	-3.16/-4.99	-6.92/-7.56	-7.47/-8.38	-9.86/-9.99	-8.76/-7.13	-5.70/-4.75	-4.38/-4.37	-4.50/-4.78	-5.34/-5.96	-6.14/-5.76	-5.36/-5.52	-6.46/-7.29	-6.89/-5.22	-3.24/-1.44	-0.05/0.95	1.62/2.03	2.17/1.97	1.34/0.34	-0.85/-2.01
Θ (67.5°)	-3.23/-3.47	-2.82/-2.56	-3.33/-5.23	-6.67/-5.18	-3.10/-2.40	-3.34/-5.66	-7.10/-6.49	-6.01/-7.01	-9.70/-11.23	-10.03/-8.25	-6.89/-6.20	-6.07/-5.98	-5.72/-5.21	-4.59/-3.81	-3.06/-2.69	-2.81/-3.54	-4.77/-5.84	-5.70/-4.17	-2.33/-0.83	0.18/0.81	1.28/1.69	1.87/1.81	1.40/0.57	-0.63/-2.02
Θ (75°)	-5.03/-5.77	-4.21/-3.07	-3.37/-5.15	-7.02/-5.54	-3.34/-2.86	-4.18/-6.41	-6.83/-5.54	-5.09/-6.25	-10.36/-12.62	-10.52/-8.15	-6.73/-5.91	-5.82/-6.35	-7.46/-8.67	-8.45/-6.24	-4.04/-2.76	-2.30/-2.64	-3.54/-4.29</							

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

[illegible]



Antenna Pattern_5GHz UNII 1~UNII 3

Appendix D

Θ(15°)	-1.48/-0.66	0.080/30	0.20/0.40	0.63/0.05	-0.98/-1.01	-0.29/-0.23	-0.61/-0.80	-0.36/-0.28	0.83/1.04	0.87/0.49	-0.20/-1.24	-2.02/-2.55	-2.94/-3.15	-3.10/-2.65	-2.48/-2.41	-2.01/-1.52	-1.28/-1.43	-1.67/-1.74	-2.01/-2.25	-2.12/-1.47	-0.87/-0.94	-1.56/-2.00	-2.21/-2.59	-2.52/-2.15
Θ(22.5°)	-0.55/-0.44	1.26/1.56	1.34/1.28	1.72/1.72	1.21/1.16	1.42/0.90	0.57/0.86	1.34/1.87	2.14/2.10	1.46/0.65	-0.68/-1.95	-2.58/-2.67	-2.74/-2.44	-1.45/-0.40	0.15/0.23	0.20/0.15	0.12/0.18	0.30/0.35	0.20/-0.06	0.78/0.67	-0.38/-1.55	-1.94/-2.42	-0.32/-1.62	
Θ(30°)	0.87/0.91	1.05/1.15	1.07/1.02	1.13/1.06	0.90/1.13	0.99/0.60	0.50/0.49	1.06/1.60	1.99/1.78	0.98/0.15	-1.64/-2.39	-2.00/-2.18	-2.59/-2.20	-1.77/1.69	-1.52/-0.95	-0.08/0.66	1.10/0.68	-0.78/-3.01	-3.23/-1.86	-1.11/-0.81	-0.28/0.07	-1.02/-2.73	-1.90/-0.58	0.60/-0.49
Θ(37.5°)	0.71/1.14	1.48/1.86	2.19/2.10	1.31/0.02	-0.73/-0.90	-0.99/-0.91	-0.75/-0.97	-1.00/-0.50	0.36/0.80	0.78/0.33	-0.81/-1.02	-0.77/-1.91	-2.52/-2.02	-2.28/-1.94	-1.49/-2.22	-3.51/-4.16	-4.86/-4.56	-3.21/-2.40	-3.80/-3.07	-0.65/0.11	-0.46/-0.59	0.12/0.40	0.76/1.55	1.00/0.63
Θ(45°)	-0.66/0.25	1.17/2.08	2.12/1.60	0.85/-0.22	-1.42/-1.93	-1.43/-0.93	-0.97/-1.69	-3.27/-4.19	-1.85/-0.15	0.12/-0.50	-2.28/-2.37	-2.20/-5.31	-7.78/-9.43	-13.29/-8.35	-7.19/-6.75	-4.44/-3.25	-2.73/-2.18	-1.78/-2.61	-3.82/-3.59	-2.68/-0.50	-0.23/-1.90	-2.24/-0.45	0.30/-1.39	0.47/-1.18
Θ(52.5°)	-1.45/-0.49	0.02/1.58	1.88/1.75	1.47/0.85	-0.28/-1.48	-2.35/-3.60	-3.14/-1.83	-2.90/-3.92	-1.51/-1.06	-2.22/-3.84	-6.14/-5.20	-6.19/-9.74	-6.65/-11.31	-7.53/-6.12	-4.42/-2.94	-3.03/-2.33	-1.97/-2.36	-2.91/-2.82	-2.67/-2.76	-0.70/-0.62	-0.61/-1.38	-1.27/0.15	0.04/-1.77	-1.49/-2.34
Θ(60°)	-0.50/0.81	1.41/1.73	0.90/-0.12	-0.35/-0.97	-2.88/-5.06	-3.89/-3.04	-3.27/-2.44	-3.32/-4.14	-2.63/-2.03	-2.65/-5.06	-8.92/-9.81	-9.80/-7.09	-5.63/-5.21	-4.21/-3.25	-2.40/-3.30	-3.55/-2.66	-2.95/-3.98	-4.87/-6.75	-8.97/-3.76	-3.14/-1.49	-0.54/-1.04	-2.17/-1.59	0.19/0.82	0.77/-0.68
Θ(67.5°)	-0.97/-0.24	0.50/0.29	-0.75/-1.34	-1.48/-1.63	-2.17/-2.70	-3.16/-4.87	-5.62/-2.35	-2.95/-5.27	-3.75/-6.41	-7.87/-8.07	-7.33/-6.71	-8.68/-8.31	-6.23/-6.54	-8.20/-7.49	-8.41/-8.85	-7.35/-7.33	-6.36/-4.06	-3.88/-4.58	-5.56/-4.89	-2.28/-1.47	-0.54/-0.38	-1.10/-2.30	-2.15/-1.37	-0.86/-1.08
Θ(75°)	0.24/0.53	1.30/0.43	-1.06/-2.72	-3.09/-3.36	-4.17/-5.11	-4.74/-5.74	-5.80/-3.73	-6.33/-4.87	-2.77/-6.42	-10.60/-14.45	-7.62/-4.78	-4.56/-6.30	-6.72/-8.26	-10.36/-7.91	-6.91/-10.38	-13.46/-9.93	-6.84/-6.34	-4.08/-4.75	-5.42/-3.96	-3.49/-1.94	-0.29/-0.79	-0.75/-0.91	-3.43/-0.14	1.50/0.41
Θ(82.5°)	-0.68/-0.54	0.38/-0.21	-0.81/-2.30	-3.00/-3.16	-3.15/-3.95	-6.42/-8.88	-7.79/-3.79	-3.96/-5.97	-7.02/-8.94	-6.23/-11.38	-6.98/-4.39	-5.86/-6.19	-5.32/-5.69	-9.76/-9.71	-9.05/-11.84	-12.14/-11.40	-9.31/-5.60	-4.09/-5.34	-4.79/-3.33	-3.96/-2.58	-0.32/-0.55	-0.75/-1.48	-1.95/-0.50	1.05/-0.22
Θ(90°)	-0.67/-1.04	-0.34/-1.33	-2.71/-1.36	-3.44/-5.05	-5.35/-4.92	-5.82/-8.50	-13.18/-9.17	-8.87/-6.11	-7.36/-9.13	-6.40/-9.37	-5.93/-3.49	-4.33/-6.92	-9.83/-7.13	-7.35/-13.22	-10.41/-13.54	-14.03/-10.52	-9.20/-6.82	-4.22/-6.41	-7.84/-4.95	-4.05/-2.74	-0.35/-1.29	-2.32/-0.68	-1.45/-1.07	1.00/0.46
Θ(97.5°)	-2.28/-1.01	-0.26/-0.26	-1.85/-4.70	-5.57/-3.22	-2.69/-5.52	-8.71/-8.86	-11.64/-9.34	-7.23/-7.63	-10.89/-7.71	-5.27/-12.02	-5.21/-2.93	-3.58/-4.30	-5.05/-6.29	-9.68/-10.11	-11.79/-12.11	-7.25/-8.94	-9.45/-7.03	-3.73/-5.45	-7.31/-4.36	-3.50/-3.70	-1.27/-1.53	-0.49/-0.25	-3.75/-0.90	0.22/-0.89
Θ(105°)	-0.08/-0.69	-0.13/-0.61	-2.23/-3.74	-6.10/-5.78	-3.79/-3.67	-6.43/-10.33	-15.60/-12.95	-11.14/-7.54	-8.34/-7.16	-4.37/-9.57	-8.04/-5.44	-6.59/-6.23	-6.38/-5.60	-7.37/-11.77	-10.42/-14.04	-12.39/-9.00	-6.45/-6.69	-7.91/-11.78	-12.04/-5.83	-4.73/-4.81	-2.89/-3.35	-2.30/-0.18	-0.10/-0.33	0.53/0.83
Θ(112.5°)	-0.97/-0.43	-0.10/-0.26	-2.09/-4.51	-5.51/-4.01	-3.53/-5.34	-7.76/-9.60	-6.73/-5.16	-6.28/-7.61	-7.21/-4.48	-4.60/-10.53	-4.74/-3.88	-5.01/-8.88	-6.27/-13.55	-11.09/-10.66	-11.76/-15.80	-8.68/-10.47	-9.48/-9.17	-9.17/-8.54	-10.38/-4.55	-2.83/-4.03	-2.39/-1.78	-1.73/-1.19	-1.25/-0.58	-0.48/-0.13
Θ(120°)	-0.17/0.05	0.93/0.18	-0.95/-2.12	-1.61/-1.48	-1.54/-2.87	-8.65/-9.53	-7.07/-5.47	-5.79/-7.88	-7.09/-3.06	-2.14/-7.54	-10.37/-5.55	-8.26/-7.92	-11.00/-8.21	-9.90/-6.70	-6.04/-9.81	-6.90/-11.74	-4.92/-3.61	-5.84/-7.92	-10.53/-4.10	-3.65/-3.51	-0.28/-2.73	-1.81/-0.11	-4.45/-3.64	-1.16/-1.09
Θ(127.5°)	-0.86/-0.89	0.35/0.73	0.42/0.18	-0.22/-0.24	-1.14/-4.76	-8.10/-5.55	-1.99/-1.79	-3.25/-4.82	-5.90/-3.48	-3.83/-5.22	-2.49/-2.88	-5.59/-9.89	-6.56/-6.66	-6.14/-6.70	-5.62/-4.46	-6.81/-6.59	-0.65/-5.50	-14.37/-6.87	-5.30/-1.25	-0.90/-3.66	-4.34/-4.79	-5.01/0.29	1.48/1.13	1.26/-0.43
Θ(135°)	-5.00/-3.87	-2.48/-1.69	-1.87/-1.52	-1.88/-4.28	-6.89/-6.94	-4.19/-3.00	-3.43/-4.21	-6.78/-10.27	-3.84/-0.08	-1.60/-3.01	-7.78/-5.86	-7.63/-7.10	-8.09/-5.72	-3.09/-3.78	-7.13/-4.80	-7.42/-7.24	-7.30/-6.15	-9.92/-10.73	-6.47/-4.30	-1.35/-6.21	-3.63/-6.85	-4.81/-8.33	0.47/0.01	0.15/-3.10
Θ(142.5°)	-3.45/-5.08	-2.80/-4.69	-3.79/-4.12	-4.90/-6.57	-7.58/-5.82	-3.58/-2.38	-1.87/-1.94	-2.79/-5.44	-9.79/-9.75	-5.91/-2.95	-1.98/-2.97	-6.20/-7.41	-7.75/-6.75	-3.31/-3.99	-6.77/-6.05	-6.10/-6.15	-6.73/-6.28	-7.76/-10.41	-7.32/-7.02	-4.74/-8.90	-6.50/-4.06	-6.40/-5.73	-4.02/-1.88	-0.76/-1.55
Θ(150°)	-3.36/-3.07	-2.77/-3.19	-3.68/-4.24	-4.91/-4.60	-4.35/-4.55	-4.53/-4.31	-4.17/-4.49	-5.03/-4.27	-2.31/-0.99	-0.58/-1.39	-3.24/-5.36	-7.03/-7.87	-9.34/-10.47	-9.43/-7.48	-5.25/-4.42	-4.20/-2.37	-1.03/-2.05	-5.89/-10.63	-11.19/-9.43	-6.05/-3.86	-2.50/-0.67	-6.43/-3.06	-6.61/-6.95	-4.91/-3.55
Θ(157.5°)	-2.61/-2.48	-2.51/-2.31	-1.85/-1.05	-0.39/-0.38	-0.97/-1.27	-1.75/-3.16	-5.82/-5.58	-4.27/-2.37	-1.40/-1.39	-2.18/-3.78	-6.14/-6.60	-13.18/-11.28	-7.53/-5.51	-4.41/-4.05	-4.67/-7.08	-9.34/-7.59	-6.91/-9.97	-11.50/-10.00	-9.89/-7.91	-4.70/-3.14	-2.40/-1.05	0.64/-1.4	0.45/-0.55	-1.77/-2.50
Θ(165°)	-5.27/-6.28	-7.15/-7.11	-6.94/-8.25	-11.31/-13.15	-12.73/-13.52	-11.83/-7.08	-3.35/-1.31	-0.50/-5.01	-0.90/-1.78	-2.97/-4.63	-6.50/-7.76	-7.04/-5.53	-4.38/-3.81	-3.94/-4.62	-5.18/-5.20	-5.01/-4.57	-3.53/-2.58	-2.57/-4.00	-6.20/-6.32	-4.29/-2.79	-1.88/-1.35	-1.03/-0.94	-1.68/-2.88	-3.91/-4.56
Θ(172.5°)	-2.32/-2.60	-2.66/-2.99	-3.89/-4.14	-3.51/-3.06	-3.02/-3.22	-2.76/-2.02	-2.08/-2.69	-4.14/-5.77	-7.43/-9.03	-11.39/-14.71	-15.21/-12.43	-9.28/-6.87	-5.42/-4.70	-4.63/-4.61	-4.30/-3.82	-3.39/-3.24	-3.00/-3.09	-3.64/-4.46	-5.23/-5.19	-4.75/-4.47	-4.15/-2.69	-3.31/-2.50	-1.91/-1.58	-1.59/-1.95
Θ(180°)	-5.97/-6.16	-6.14/-6.34	-6.67/-7.34	-8.19/-9.06	-9.18/-9.41	-9.82/-11.84	-15.88/-15.49	-14.96/-12.04	-10.74/-10.34	-10.40/-10.23	-10.58/-11.18	-11.99/-13.62	-14.19/-14.62	-14.51/-14.86	-14.78/-12.54	-10.88/-10.87	-11.41/-12.07	-10.91/-9.53	-8.01/-6.78	-6.32/-6.23	-6.56/-6.94	-7.68/-7.96	-7.10/-6.46	-6.25/-6.10
Freq(Hz)	5.30GPol.	Total/Ant. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Ψ(7.5°)	Φ(15°)Ψ(22.5°)	Φ(30°)Ψ(37.5°)	Φ(45°)Ψ(52.5°)	Φ(60°)Ψ(67.5°)	Φ(75°)Ψ(82.5°)	Φ(90°)Ψ(97.5°)	Φ(105°)Ψ(112.5°)	Φ(120°)Ψ(127.5°)	Φ(135°)Ψ(142.5°)	Φ(150°)Ψ(157.5°)	Φ(165°)Ψ(172.5°)	Φ(180°)Ψ(187.5°)	Φ(195°)Ψ(202.5°)	Φ(210°)Ψ(217.5°)	Φ(225°)Ψ(232.5°)	Φ(240°)Ψ(247.5°)	Φ(255°)Ψ(262.5°)	Φ(270°)Ψ(277.5°)	Φ(285°)Ψ(292.5°)	Φ(300°)Ψ(307.5°)	Φ(315°)Ψ(322.5°)	Φ(330°)Ψ(337.5°)	Φ(345°)Ψ(352.5°)
Θ(0°)	0.11/0.19	0.46/0.29	0.70/0.54	-0.41/-0.25	-0.64/-1.05	-0.94/-0.39	-0.03/0.13	0.22/0.26	0.11/0.13	0.18/0.24	0.25/0.33	0.21/0.02	-0.14/-0.25	-0.21/-0.33	-0.60/-0.57	-0.53/-0.77	-0.99/-0.68	-0.15/0.00	-0.22/-0.40	-0.32/-0.08	0.20/0.36	0.39/0.38	0.32/0.36	0.34/0.16
Θ(7.5°)	0.19/-0.15	0.07/0.46	0.53/0.01	-0.21/0.21	-0.26/0.58	-1.22/-0.69	0.22/0.56	0.40/0.44	0.36/0.40	0.64/0.89	0.98/0.82	0.57/0.49	0.38/0.16	-0.16/-0.63	-1.41/-2.01	-1.89/-1.63	-1.61/-1.44	-1.11/-0.87	-0.80/-0.70	-0.57/0.35	-0.13/0.03	0.29/0.44	0.59/0.71	0.59/0.41
Θ(15°)	0.96/1.08	1.29/1.52	2.08/2.40	2.22/1.79	1.54/1.03	0.39/0.11	0.12/0.18	0.26/0.47	0.58/0.74	1.24/1.31	1.54/0.88	0.13/-0.49	-1.04/-1.54	-2.21/-2.63	-2.71/-2.36	-2.39/-2.82	-3.03/-3.10	-3.32/-3.52	-3.10/-2.21	-1.43/-1.11	-0.88/-0.67	-0.42/-0.12	0.26/0.51	0.76/0.90
Θ(22.5°)	1.80/1.88	1.99/2.08	2.60/2.82	2.41/1.86	1.64/1.50	0.72/-0.32	-1.03/-0.75	0.14/1.14	1.75/1.76	1.51/1.01	-0.00/-1.38	-1.63/-1.53	-2.29/-3.48	-4.03/-3.71	-3.21/-2.87	-2.58/-2.44	-2.39/-2.01	-1.51/-1.62	-1.87/-1.51	-0.44/0.40	0.62/0.08	-0.54/-0.42	0.11/0.54	0.99/1.47
Θ(30°)	0.28/0.14	0.38/0.73	1.29/1.23	0.84/0.78	1.14/1.11	0.07/-1.00	-1.09/-0.55	-0.16/0.20	0.80/1.09	0.79/-0.12	-1.87/-2.71	-1.82/-1.11	-1.65/-2.40	-2.21/-1.79	-1.52/-1.23	-0.83/-0.70	-0.18/-0.28	-0.36/-0.58	-0.08/-0.68	-0.07/0.40	-0.16/-0.88	-1.97/-1.12	0.33/0.96	1.03/0.82
Θ(37.5°)	-1.22/-0.64	0.31/1.29	1.67/1.41	1.27/1.28	1.04/0.27	-0.94/-1.85	-1.67/-1.24	-2.01/-2.70	-1.65/-0.82	-0.71/0.39	-0.76/-0.91	-0.16/-0.39	-1.91/-2.77	-3.62/-4.73	-4.77/-5.11	-6.02/-4.87	-3.14/-3.03	-3.77/-4.26	-3.89/-2.67	-1.21/-0.70	-0.89/-0.84	-1.11/-0.91	0.25/0.19	-0.60/-0.89
Θ(45°)	-0.34/-0.42	1.55/1.99	1.79/1.34	0.72/0.14	-0.68/-2.02	-3.05/-3.20	-3.21/-3.42	-3.63/-3.11	-1.63/-0.85	-1.08/-1.40	-2.65/-3.38	-1.44/-1.65	-4.01/-5.10	-7.41/-9.08	-7.23/-6.77	-6.56/-5.98	-4.83/-2.77	-2.10/-1.92	-1.36/-0.94	-0.47/-0.18	-1.23/-2.49	-1.47/-0.33	0.87/0.94	-1.00/-1.18
Θ(52.5°)	0.28/0.48	1.28/0.87	-0.40/-0.95	-0.74/-0.67	-0.88/-0.89	-0.79/-1.70	-3.43/-3.22	-4.00/-5.99	-2.79/-1.06	-2.01/-3.14	-4.59/-4.98	-4.33/-7.82	-8.62/-8.73	-7.16/-5.22	-4.50/-2.92	-2.17/-2.55	-2.94/-3.36	-3.55/-3.47	-2.81/-0.82	-0.19/-0.77	-1.69/-1.97	-1.61/-1.76	-3.06/-1.56	-1.08/-1.14
Θ(60°)	-0.05/-0.07	1.55/0.96	-0.23/-0.85	-1.54/-2.44	-3.07/-2.79	-2.98/-3.77	-2.98/-1.36	-3.35/-6.66	-2.63/-1.60	-2.74/-5.39	-7.79/-7.73	-9.29/-10.60	-6.38/-7.52	-6.14/-6.54	-4.14/-3.94	-3.94/-4.27	-4.83/-3.63	-3.81/-7.19	-6.04/-3.20	-2.39/-1.52	-1.20/-1.95	-2.32/-2.35	-6.02/0.01	-0.80/-1.35
Θ(67.5°)	-0.54/-0.52	0.59/-0.40	-1.97/-3.81	-4.55/-3.61	-3.29/-3.64	-3.43/-3.37	-4.85/-4.39	-3.47/-4.32	-2.16/-2.94	-6.06/-9.18	-8.37/-8.22	-7.58/-7.04	-6.43/-7.23	-10.10/-8.19	-8.34/-10.02	-8.92/-6.73	-6.28/-5.55	-4.46/-5.98	-7.92/-3.00					



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Appendix D

Θ(60°)	-1.53/-4.00	-4.42/-2.23	-1.30/-1.36	-1.84/-3.39	-4.76/-1.74	0.20/0.14	-0.56/-1.82	-3.78/-4.20	-3.82/-5.20	-5.58/-4.50	-6.35/-5.12	-4.46/-5.26	-5.58/-5.71	-2.51/-0.99	-2.99/-7.94	-7.65/-4.80	-3.01/-2.54	-5.89/-10.80	-7.07/-3.86	-3.29/-3.53	-1.86/-2.15	-2.30/-1.74	-2.18/-1.40	-0.87/-0.49
Θ(67.5°)	-2.00/-4.43	-4.58/-2.32	-0.84/-0.81	-1.65/-2.60	-3.87/-1.10	0.82/0.88	-0.08/-2.12	-3.33/-2.92	-2.83/-4.40	-5.36/-6.74	-8.94/-6.68	-7.05/-5.88	-4.04/-4.36	-4.90/-2.98	-1.67/-4.46	-6.23/-4.14	-2.22/-1.77	-5.92/-10.60	-6.01/-3.30	-3.14/-5.14	-2.90/-3.85	-4.79/-3.54	-2.33/-1.08	-1.45/-0.93
Θ(75°)	-2.04/-6.09	-4.96/-1.18	-1.49/-1.80	-0.88/-0.98	-2.12/-1.27	0.17/0.71	0.40/-0.62	-0.54/-0.57	-1.01/-1.48	-2.46/-2.55	-6.66/-3.65	-6.32/-5.62	-1.50/-2.30	-5.55/-5.46	-2.37/-2.13	-1.85/-1.28	-3.29/-1.65	-2.86/-5.58	-3.42/-1.14	-0.87/-3.06	-2.28/-3.47	-7.12/-6.01	-3.32/-1.39	-1.53/-0.16
Θ(82.5°)	-1.91/-5.90	-4.18/-0.80	-1.48/-2.08	-0.79/-0.16	-1.17/-1.82	-0.48/0.59	1.06/1.03	0.65/0.48	0.96/1.05	-0.92/0.52	-3.84/-1.50	-4.37/-1.50	-0.81/-2.09	-3.50/-4.26	-2.36/0.15	1.88/1.49	-2.48/-2.96	-1.96/-3.54	-2.05/0.39	0.04/-0.76	-2.19/-2.53	-7.11/-5.45	-3.58/-0.63	-0.47/-1.18
Θ(90°)	-1.70/-4.57	-5.54/-2.07	-1.50/-2.23	-0.49/-0.38	-1.87/-1.89	-0.34/0.80	1.02/0.51	0.78/0.47	0.82/2.21	-0.89/-1.26	-4.50/-4.2	-4.07/-2.44	1.18/-0.15	-3.74/-4.00	-2.03/-0.21	1.56/1.74	-1.31/-2.45	-1.68/-2.16	-1.96/-1.26	0.23/-0.20	-1.93/-4.28	-5.72/-5.81	-3.44/-1.40	-0.82/-2.27
Θ(97.5°)	-4.45/-4.25	-3.54/-3.38	-1.36/-0.15	0.09/0.17	-2.15/-2.61	-0.35/0.86	0.90/0.98	0.94/0.08	1.29/-2.31	-1.46/-1.36	-4.45/-0.07	-5.04/-3.74	-0.31/-1.23	-4.43/-5.72	-3.03/-0.85	0.45/1.43	0.12/-1.23	-2.81/-4.00	-1.35/0.31	0.70/-1.38	-2.54/-4.81	-6.38/-4.87	-4.50/-0.74	-0.40/-2.82
Θ(105°)	-4.44/-5.98	-3.74/-3.49	-2.74/0.12	0.71/0.17	-2.95/-2.80	-0.57/0.02	-0.11/-0.31	-0.69/-0.53	0.62/1.63	-0.44/-0.15	-9.78/-1.57	-6.13/-4.53	0.20/-0.27	-5.81/-8.75	-5.40/-1.08	-0.54/-0.72	-1.35/-1.62	-3.09/-6.86	-2.04/-1.35	0.29/-3.20	-2.57/-5.60	-5.31/-4.02	-3.87/-3.00	-1.56/-2.27
Θ(112.5°)	-4.10/-3.75	-3.64/-2.71	-1.70/-0.19	-0.31/-0.49	-1.99/-3.06	-1.53/-1.22	-0.67/-0.94	-1.81/-3.11	-1.32/-2.28	-3.30/-4.76	-13.03/-6.76	-7.21/-6.87	-0.28/-1.14	-11.05/-15.04	-4.46/-0.94	-3.01/-1.45	-1.85/-2.10	-3.40/-9.49	-2.53/-2.37	0.34/-2.61	-3.49/-9.33	-6.54/-4.70	-1.72/-2.14	-2.03/-4.28
Θ(120°)	-4.11/-5.85	-4.00/-1.49	-0.02/0.67	0.19/-1.87	-4.23/-4.08	-1.68/-0.57	-2.13/-2.91	-4.07/-3.89	-2.88/-2.78	-1.14/-3.42	-10.12/-11.28	-7.52/-10.74	-3.43/-5.30	-10.34/-8.91	-1.54/0.02	-1.00/-2.27	-2.31/-6.03	-0.88/-1.29	-5.20/-5.54	-9.76/-6.98	-5.07/-1.23	-2.64/-2.52		
Θ(127.5°)	-3.83/-5.15	-3.43/-1.29	-0.37/-0.69	-1.90/-2.83	-4.08/-2.49	-0.35/-1.97	-4.39/-5.09	-5.79/-4.23	-5.44/-4.02	-3.20/-4.48	-7.56/-2.84	-2.91/-4.65	-1.60/-3.61	-11.97/-11.29	-1.34/-1.24	-1.69/-0.76	-3.34/-3.70	-2.58/-5.10	-1.58/-1.81	-2.51/-1.66	-12.72/-5.40	-7.28/-3.16	-2.21/-1.87	-2.22/-4.31
Θ(135°)	-2.14/-1.69	-1.14/-1.64	-2.30/-3.47	-4.17/-3.01	-2.25/-1.70	-1.80/-1.45	-1.92/-3.31	-1.38/-0.85	-2.16/-3.27	-4.95/-6.40	-4.72/-2.75	-5.02/-4.17	-1.07/-2.83	-6.13/-3.61	-1.45/-3.82	-2.51/-2.02	-5.32/-4.17	-4.61/-6.51	-5.50/0.46	-1.77/-3.82	-5.55/-14.99	-14.60/-7.39	-2.01/-1.37	-2.80/-3.09
Θ(142.5°)	-3.72/-4.56	-7.57/-8.57	-7.59/-7.71	-4.69/-2.09	-1.82/-3.04	-3.67/-4.34	-5.11/-3.29	-1.13/-0.70	-1.56/-3.59	-6.82/-7.36	-5.23/-2.13	-4.74/-3.31	-4.77/-4.20	-7.69/-8.04	-6.72/-2.72	-2.39/-5.93	-10.07/-8.58	-9.28/-4.36	-3.78/-4.83	-4.59/-7.17	-15.97/-12.27	-6.84/-4.91	-4.98/-3.93	
Θ(150°)	-9.90/-9.38	-12.89/-11.83	-9.70/-7.23	-4.69/-3.17	-3.92/-4.76	-4.50/-3.58	-3.22/-3.51	-3.60/-2.52	-2.27/-3.98	-7.74/-10.34	-9.76/-10.24	-8.52/-6.63	-5.70/-3.37	-2.29/-4.53	-9.73/-9.98	-10.19/-9.90	-9.55/-8.73	-9.03/-9.88	-9.89/-6.23	-4.10/-3.65	-4.50/-5.52	-7.02/-7.94	-7.35/-7.93	-11.40/-15.10
Θ(157.5°)	-9.91/-9.02	-7.23/-5.87	-5.02/-5.54	-4.34/-4.77	-5.79/-4.78	-8.99/-8.16	-7.34/-6.49	-6.28/-6.40	-7.68/-9.44	-10.76/-9.97	-9.73/-10.29	-11.40/-12.29	-12.11/-9.18	-14.55/-15.67	-15.58/-15.29	-15.28/-15.72	-13.24/-11.87	-9.24/-7.39	-8.66/-7.56	-8.52/-8.31	-6.52/-6.51	-5.29/-6.34	-8.55/-6.58	
Θ(165°)	-6.18/-5.34	-4.59/-3.90	-3.89/-3.09	-4.35/-5.13	-6.42/-7.93	-8.53/-8.70	-9.97/-12.21	-11.59/-13.43	-12.45/-12.23	-12.25/-12.27	-15.80/-14.06	-15.28/-15.65	-13.03/-11.86	-11.61/-11.44	-11.11/-11.72	-12.11/-10.87	-11.19/-12.24	-11.10/-8.44	-6.81/-5.85	-5.77/-6.30	-5.51/-4.62	-4.71/-5.31	-5.73/-6.24	
Θ(172.5°)	-7.18/-6.66	-5.78/-5.53	-5.85/-7.01	-7.56/-8.62	-10.71/-14.20	-15.32/-16.10	-11.89/-9.82	-8.76/-8.41	-8.67/-9.11	-9.35/-10.39	-11.18/-10.93	-10.49/-11.26	-11.82/-11.33	-10.26/-10.37	-11.21/-11.12	-11.30/-11.46	-11.81/-11.03	-10.47/-9.88	-8.78/-7.52	-6.64/-5.95	-5.73/-5.51	-5.56/-5.25	-4.85/-5.13	-5.73/-6.58
Θ(180°)	-9.68/-10.90	-13.18/-14.33	-15.48/-13.39	-12.66/-12.17	-12.25/-11.59	-11.01/-10.44	-9.48/-8.79	-8.71/-9.34	-9.57/-10.30	-11.48/-13.24	-14.04/-15.02	-15.38/-15.25	-15.71/-14.68	-13.29/-13.13	-13.59/-14.46	-14.49/-14.87	-14.43/-14.92	-13.84/-13.34	-13.63/-13.12	-12.49/-12.76	-13.63/-14.00	-14.34/-13.70	-12.94/-12.09	-11.67/-10.42
Freq[Hz]	5.30GPol.	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°)	-4.02/-3.84	-3.48/-4.12	-4.40/-4.18	-4.09/-4.12	-4.02/-3.74	-3.51/-3.47	-3.43/-3.52	-3.19/-2.77	-2.75/-2.77	-2.87/-2.83	-2.49/-2.39	-2.77/-3.10	-2.91/-2.83	-2.91/-3.07	-3.40/-3.59	-3.53/-3.55	-3.90/-3.81	-3.75/-3.61	-3.60/-3.23	-3.10/-3.34	-3.45/-3.50	-3.46/-3.21	-3.30/-3.42	-4.00/-4.30
Θ(7.5°)	-3.28/-3.11	-2.97/-3.40	-3.51/-3.07	-2.64/-2.76	-2.97/-2.89	-2.84/-2.88	-2.98/-3.57	-3.77/-4.06	-3.94/-3.80	-3.96/-4.43	-4.92/-4.95	-4.78/-4.92	-4.83/-4.65	-4.87/-5.24	-5.36/-5.23	-4.93/-4.81	-5.08/-5.42	-4.37/-4.08	-4.30/-4.36	-4.38/-4.14	-3.47/-3.03	-2.87/-2.77	-3.41/-2.73	-3.14/-3.57
Θ(15°)	-6.78/-6.24	-5.00/-4.63	-4.20/-3.16	-2.23/-2.09	-2.07/-1.87	-2.08/-2.45	-3.28/-4.78	-6.01/-6.64	-6.80/-6.81	-6.69/-7.13	-8.22/-9.57	-10.44/-9.10	-8.28/-9.12	-10.87/-11.80	-9.93/-8.28	-6.86/-7.18	-7.04/-6.88	-7.40/-6.83	-7.43/-7.04	-6.59/-6.60	-5.73/-5.04	-4.91/-5.23	-5.89/-5.82	-6.59/-7.39
Θ(22.5°)	-9.51/-8.12	-6.81/-6.96	-7.26/-5.35	-3.46/-2.43	-2.60/-2.02	-2.31/-2.94	-4.12/-4.95	-6.30/-5.42	-5.48/-6.01	-6.54/-7.89	-9.33/-9.38	-7.80/-7.52	-6.78/-6.13	-8.81/-8.41	-10.15/-10.56	-10.39/-10.31	-11.36/-12.13	-11.88/-10.45	-8.93/-7.57	-6.61/-5.70	-5.02/-5.13	-6.38/-8.39	-9.78/-8.79	-8.31/-8.78
Θ(30°)	-7.76/-6.57	-6.24/-6.34	-5.27/-4.26	-3.57/-2.98	-3.03/-3.64	-3.90/-3.54	-3.21/-2.83	-2.90/-3.14	-3.48/-3.82	-4.47/-4.79	-4.57/-4.38	-3.93/-3.44	-3.26/-3.25	-3.46/-3.72	-4.43/-4.59	-5.86/-6.47	-7.47/-7.94	-15.01/-15.48	-9.17/-6.02	-4.98/-6.68	-4.80/-4.96	-5.35/-5.47	-5.09/-5.09	-7.00/-8.04
Θ(37.5°)	-5.30/-5.03	-5.85/-5.90	-3.75/-2.58	-2.55/-3.05	-4.44/-5.27	-2.93/-1.07	-0.62/-0.55	-0.37/-0.83	-2.04/-3.05	-2.77/-2.78	-3.14/-4.58	-5.25/-4.10	-2.99/-2.60	-2.25/-2.09	-2.75/-4.26	-5.45/-5.39	-5.41/-7.27	-12.66/-13.31	-6.01/-2.74	-1.93/-2.63	-3.44/-3.33	-3.07/-3.53	-3.62/-3.60	-3.91/-4.63
Θ(45°)	-4.92/-6.42	-6.37/-4.75	-3.07/-1.48	-0.92/-1.87	-4.44/-6.11	-2.34/-3.07	-0.15/-0.40	-1.33/-3.63	-5.48/-3.75	-2.01/-1.70	-2.51/-5.39	-4.81/-7.63	-6.23/-6.72	-4.48/-4.20	-4.90/-4.45	-3.24/-2.53	-3.15/-5.78	-11.71/-12.29	-7.37/-5.99	-5.34/-4.02	-2.80/-1.92	-2.75/-3.07	-2.26/-2.34	
Θ(52.5°)	-1.87/-3.50	-4.30/-3.97	-3.26/-1.59	-0.95/-2.40	-6.16/-7.43	-1.94/0.56	0.67/0.86	-3.21/-2.60	-5.92/-0.47	-2.89/-2.24	-3.33/-2.70	-4.13/-6.80	-6.08/-3.73	-2.62/-2.98	-4.53/-7.16	-6.06/-0.45	-3.29/-4.60	-10.01/-15.46	-7.82/-5.25	-4.66/-3.62	-2.96/-3.83	-3.54/-2.98	-2.77/-1.92	-1.15/-0.93
Θ(60°)	-2.22/-4.31	-3.63/-2.48	-1.75/-0.51	-1.24/-3.87	-5.58/-3.70	0.06/1.16	0.23/-1.54	-4.26/-5.06	-3.83/-4.38	-5.64/-6.33	-6.86/-4.73	-4.36/-0.61	-5.64/-3.31	-2.28/-2.65	-5.02/-9.23	-6.85/-3.71	-2.93/-3.91	-8.31/-10.89	-6.38/-3.91	-4.74/-5.04	-3.99/-6.34	-6.95/-4.51	-3.56/-1.44	-0.35/0.03
Θ(67.5°)	-2.59/-5.52	-3.70/-1.32	-1.27/-1.14	-1.65/-2.67	-3.44/-2.70	0.03/0.87	0.58/-0.96	-2.35/-3.00	-3.42/-5.19	-6.38/-8.77	-11.50/-7.02	-5.83/-7.08	-5.40/-3.71	-2.80/-2.67	-2.95/-5.32	-4.64/-3.44	-2.75/-2.69	-6.39/-6.99	-4.16/-3.04	-4.06/-5.46	-3.63/-6.94	-8.30/-7.11	-4.71/-2.75	-1.23/-0.26
Θ(75°)	-3.16/-7.10	-3.58/-1.28	-1.61/-1.87	-2.22/-1.76	-1.29/-0.76	0.23/0.29	0.75/0.15	-1.46/-1.53	-2.09/-3.33	-3.86/-3.04	-6.44/-3.97	-6.40/-7.77	-2.00/-1.99	-5.12/-3.58	-0.86/-2.09	-3.47/-2.57	-3.16/-1.11	-3.28/-6.77	-5.14/-2.17	-1.93/-4.64	-3.37/-4.74	-8.00/-7.64	-3.91/-1.82	0.13/0.37
Θ(82.5°)	-1.47/-6.84	-5.54/-1.20	-1.26/-2.19	-2.50/-1.63	-0.63/-0.07	-0.23/-0.42	-0.32/-0.26	-0.12/-0.76	-1.12/-1.50	-5.01/-1.27	-4.44/-4.04	-4.86/-1.59	-0.92/-1.18	-6.16/-4.12	1.10/-1.25	-0.20/-2.99	-1.79/-0.42	-2.02/-4.57	-0.89/-1.81	-4.07/-5.94	-8.44/-5.73	-3.36/-1.08	-1.03/-0.41	
Θ(90°)	-1.70/-6.03	-5.75/-2.05	-1.46/-2.46	-2.04/-1.03	-0.83/-0.91	-0.44/-0.06	1.30/0.49	0.29/0.47	0.17/1.13	-1.92/-0.24	-7.15/-0.27	-2.80/-3.52	-0.63/0.15	-3.44/-5.70	-0.53/-1.39	0.49/0.30	-1.44/-0.12	-1.48/-3.93	-3.15/-0.02	-0.94/-0.71	-3.29/-6.39	-6.68/-6.48	-4.62/-1.72	-0.88/-1.41
Θ(97.5°)	-2.60/-6.75	-5.68/-2.62	-1.86/-1.92	-0.70/-0.06	-0.73/-2.41	-1.23/0.43	1.42/0.65	0.69/0.15	1.07/-2.14	-2.05/0.02	-7.83/-1.12	-4.72/-3.79	-1.00/-1.14	-4.87/-8.90	-2.75/0.88	0.77/0.37	-1.79/-0.52	-2.95/-4.42	-1.81/-0.18	-1.14/-1.27	-3.19/-4.54	-4.33/-4.16	-3.92/-0.91	-0.58/-2.96
Θ(105°)	-5.13/-5.88	-4.28/-2.47	-1.71/-2.01	-1.16/0.20	-1.10/-3.54	-1.85/-0.01	1.04/0.13	-0.44/-0.29	0.151/-3.7	-1.24/-1.27	-14.47/-2.74	-4.82/-4.75	-1.05/-0.66	-6.73/-13.49	-6.26/0.22	0.52/-1.27	-3.89/-6.08	-2.12/-6.71	-1.57/-1.63	-0.91/-2.76	-3.11/-6.63	-4.30/-4.26	-3.27/-8.60	-1.49/-5.25
Θ(112.5°)	-7.58/-5.71	-2.98/-3.14	-2.58/-0.77	-1.04/-1.02	-1.57/-3.81	-1.82/-0.53	-0.28/-1.05	-1.04/-2.14	-1.68/-1.79	-1.82/-4.09	-15.60/-9.06	-6.47/-7.91	-0.27/-6.68	-12.56/-16.10	-4.47/-0.65	-2.25/-2.14	-3.84/-1.03	-3.42/-15.41	-3.19/-2.99	0.04/-1.21				



Antenna Pattern_5GHz UNII 1~UNII 3

Appendix D

Θ (105°)	0.34/-1.08	-8.82/-2.01	-3.99/-9.49	-7.50/-9.77	-5.86/-2.85	-2.95/-5.85	-6.13/-4.98	-3.27/-2.17	-1.71/-1.37	-0.76/-0.30	0.380/18	0.350/65	0.140/77	0.177/-0.53	-1.75/-1.86	-5.26/-4.27	-6.28/-3.68	0.00/-1.04	-1.42/-2.38	-0.36/-2.78	0.10/-3.78	-1.96/-0.43	-3.08/-10.10	-10.65/-2.76
Θ (112.5°)	-3.05/-1.43	-6.05/-5.68	-6.60/-11.79	-10.38/-15.45	-6.95/-3.99	-3.83/-7.16	-7.17/-5.86	-3.88/-1.23	-1.43/-1.69	-0.68/-0.73	-0.53/-0.71	-0.76/-0.52	0.58/-1.13	-0.03/-1.10	-2.51/-2.98	-4.30/-6.56	-3.92/-1.37	1.44/-1.41	-0.70/-4.36	-1.22/-2.42	0.59/-2.08	-2.19/-0.48	-1.84/-10.54	-12.98/-7.61
Θ (120°)	-6.45/-6.46	-5.49/-11.96	-10.27/-11.95	-15.56/-14.77	-7.26/-3.32	-4.90/-8.66	-10.19/-7.39	-5.05/-1.97	-2.23/-3.23	-1.92/-0.67	-1.23/-2.43	-0.88/-0.61	-2.01/-0.56	-1.32/-4.17	-1.02/-2.59	-3.05/-5.23	-2.39/-0.31	1.04/-1.23	-0.40/-1.99	1.34/-1.95	-2.79/-3.26	-2.94/-9.63	-13.53/-5.79	
Θ (127.5°)	-1.36/-5.65	-8.04/-4.26	-10.10/-10.88	-8.16/-7.97	-8.27/-6.39	-7.50/-10.54	-6.93/-4.13	-1.69/-2.33	-4.33/-3.24	-0.52/-0.95	-1.67/-2.01	-3.61/-4.53	-1.10/-1.29	-4.98/-0.94	-0.15/-0.39	-7.26/-5.78	-1.68/-2.12	1.69/-1.28	0.66/-2.53	-3.39/-0.36	0.72/-1.51	-3.56/-9.43	-5.06/-6.38	-10.54/-7.00
Θ (135°)	-4.99/-3.37	-6.40/-8.07	-9.41/-9.95	-9.09/-10.08	-12.19/-11.67	-8.27/-6.18	-6.45/-7.93	-6.83/-3.95	-1.75/-1.54	-1.41/-1.20	-1.68/-1.57	-7.42/-2.81	0.21/-0.84	-1.97/-0.98	2.09/-0.11	-10.50/-9.40	-4.34/-0.77	0.29/-2.31	0.91/-5.63	-8.96/-3.64	-0.37/-0.77	-0.50/-6.02	-10.88/-9.55	-10.29/-7.42
Θ (142.5°)	-5.20/-4.78	-6.84/-8.69	-13.40/-14.14	-10.99/-9.93	-10.79/-10.86	-9.67/-8.71	-7.56/-5.93	-3.70/-2.10	-3.40/-5.44	-6.34/-6.13	-3.82/-3.25	-1.96/-0.57	0.89/-0.24	1.48/-2.68	2.27/-0.78	-1.25/-4.58	-3.06/-1.63	-2.09/-0.55	-1.23/-3.35	-5.86/-2.89	-0.82/-2.76	-1.82/-3.48	-11.14/-7.66	-9.92/-6.84
Θ (150°)	-8.05/-6.84	-7.47/-9.59	-10.33/-8.83	-8.07/-10.87	-12.01/-15.74	-15.58/-12.56	-10.11/-12.30	-14.50/-9.27	-6.09/-3.48	-2.60/-2.55	-2.98/-3.06	-3.13/-4.68	-7.57/-7.42	-3.41/-1.10	-1.11/-3.39	-3.59/-1.30	-0.45/-1.03	-2.04/-3.36	-6.20/-7.51	-6.42/-4.80	-2.92/-3.24	-5.85/-8.79	-10.98/-11.41	-11.18/-11.95
Θ (157.5°)	-9.73/-10.92	-9.57/-10.21	-9.69/-6.37	-5.74/-7.28	-8.26/-9.74	-12.54/-11.23	-9.04/-7.31	-5.31/-4.10	-3.22/-2.71	-2.90/-3.63	-5.03/-7.06	-8.49/-9.10	-9.22/-7.79	-4.88/-3.23	-2.73/-2.75	-2.65/-3.36	-4.21/-3.59	-2.92/-3.57	-5.50/-6.86	-6.45/-4.69	-3.64/-6.46	-8.20/-12.89	-15.07/-13.67	-14.54/-11.07
Θ (165°)	-8.35/-9.10	-10.17/-11.19	-12.96/-12.21	-14.87/-15.23	-14.61/-14.46	-13.29/-12.98	-11.76/-8.78	-5.91/-4.57	-3.56/-2.78	-2.15/-1.82	-1.62/-1.69	-1.72/-1.18	-0.32/-0.54	1.08/-1.05	0.96/-0.95	0.48/-0.57	-1.36/-1.55	-2.35/-3.78	-5.41/-7.24	-9.31/-10.43	-10.04/-10.19	-10.89/-12.90	-14.94/-11.72	-11.09/-10.12
Θ (172.5°)	-7.83/-8.53	-11.19/-11.11	-11.17/-12.68	-12.10/-13.09	-14.16/-14.52	-14.48/-14.47	-14.38/-12.21	-10.02/-8.84	-9.20/-9.12	-8.76/-8.21	-8.25/-8.43	-8.24/-7.53	-7.18/-6.85	-6.84/-6.36	-6.28/-6.35	-6.60/-6.24	-5.88/-6.05	-6.85/-8.22	-10.84/-13.95	-14.97/-13.94	-14.94/-15.21	-15.54/-14.45	-12.87/-11.88	-11.72/-9.69
Θ (180°)	-5.00/-5.45	-5.73/-6.01	-6.56/-7.30	-7.31/-6.58	-6.36/-6.98	-7.49/-7.70	-8.03/-7.59	-7.65/-8.08	-8.49/-8.90	-8.72/-8.42	-8.26/-7.59	-7.02/-7.02	-7.25/-6.86	-5.77/-5.25	-5.77/-6.17	-5.45/-4.89	-4.72/-5.46	-6.19/-6.51	-6.76/-6.74	-6.53/-5.88	-5.46/-5.43	-5.08/-4.69	-4.29/-4.22	-4.64/-5.02
Freq(Hz)	5.3G/Pol.	Total/Ant. 4	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ (0°)	-3.65/-4.22	-4.05/-4.10	-3.91/-7.30	-3.64/-3.60	-4.35/-5.21	-5.03/-5.02	-4.76/-4.34	-4.68/-4.68	-4.90/-4.88	-4.61/-4.24	-3.92/-4.09	-4.21/-4.75	-4.61/-4.30	-4.37/-4.36	-4.48/-4.61	-4.58/-4.37	-4.56/-4.58	-4.37/-4.40	-4.48/-4.12	-3.87/-3.74	-3.62/-3.65	-4.05/-4.46	-4.41/-4.07	-3.66/-3.51
Θ (7.5°)	-6.32/-7.89	-6.43/-7.49	-6.41/-5.58	-5.89/-5.63	-5.99/-6.84	-6.19/-5.92	-6.05/-4.96	-5.12/-4.78	-4.59/-4.02	-3.70/-3.44	-3.47/-3.47	-3.23/-2.98	-3.20/-3.60	-3.63/-4.05	-3.87/-4.09	-4.58/-5.17	-5.60/-5.39	-5.30/-5.19	-5.35/-5.37	-5.62/-5.56	-7.21/-7.33	-7.33/-7.52	-7.37/-7.06	
Θ (15°)	-4.11/-3.39	-3.69/-5.33	-6.93/-7.87	-8.05/-10.18	-11.49/-12.53	-11.38/-9.31	-9.87/-9.16	-9.23/-8.24	-7.09/-6.08	-5.50/-5.20	-5.11/-4.78	-4.03/-3.50	-3.78/-4.62	-4.69/-4.43	-4.70/-5.13	-5.41/-5.56	-6.15/-6.67	-5.90/-5.29	-5.53/-6.31	-7.28/-8.03	-9.51/-9.95	-8.53/-7.67	-6.77/-6.28	-4.87/-4.63
Θ (22.5°)	-3.58/-2.75	-2.19/-3.08	-4.14/-5.93	-6.24/-7.36	-9.53/-9.70	-10.09/-8.60	-8.68/-9.01	-9.77/-11.38	-11.03/-11.38	-10.67/-9.83	-7.39/-6.23	-5.57/-5.07	-5.17/-5.12	-4.23/-3.31	-2.75/-2.80	-2.66/-2.84	-3.83/-4.66	-3.71/-2.84	-3.30/-5.62	-8.14/-8.86	-7.41/-5.34	-3.58/-3.01	-2.78/-3.29	-3.36/-3.56
Θ (30°)	-3.87/-3.86	-5.03/-6.24	-7.52/-8.71	-9.80/-10.19	-9.93/-10.49	-10.93/-9.59	-6.40/-5.59	-6.60/-7.88	-8.31/-8.50	-6.17/-7.29	-7.18/-7.45	-6.91/-5.26	-3.67/-2.84	-2.90/-2.98	-1.82/-0.46	-0.23/-0.95	-1.26/-0.69	-1.76/-1.81	-2.95/-3.59	-4.43/-4.29	-2.87/-1.45	-0.79/-0.95	-1.64/-2.44	-3.35/-3.97
Θ (37.5°)	-5.65/-4.45	-4.69/-7.73	-13.14/-14.10	-10.94/-10.61	-9.91/-8.80	-10.24/-11.92	-8.22/-5.51	-5.32/-6.59	-6.40/-6.29	-6.76/-7.57	-9.07/-9.57	-7.40/-4.62	-3.29/-2.56	-2.70/-3.37	-3.05/-1.69	-1.67/-3.06	-3.65/-2.87	-3.91/-6.55	-6.33/-5.21	-4.29/-2.36	-0.35/-0.16	-0.20/-0.54	-1.18/-2.14	-3.56/-4.65
Θ (45°)	-1.57/-0.97	-0.93/-2.45	-6.45/-11.50	-13.76/-15.95	-14.84/-9.87	-6.85/-7.37	-8.88/-8.89	-4.62/-5.59	-5.91/-6.40	-4.07/-4.70	-7.13/-9.26	-6.15/-2.79	-1.99/-2.11	-1.59/-0.54	-0.49/-1.15	-2.11/-3.48	-4.54/-5.60	-7.75/-7.38	-6.45/-6.74	-5.90/-7.40	-2.14/-0.63	-0.13/-0.17	0.93/-1.52	-0.88/-0.70
Θ (52.5°)	-3.21/-3.25	-1.22/-1.97	-5.88/-8.53	-8.32/-8.95	-12.90/-16.04	-11.28/-8.83	-13.39/-6.51	-3.78/-3.63	-4.83/-4.25	-3.44/-4.34	-7.07/-7.41	-1.31/-1.72	-2.25/-2.00	-1.91/-2.55	-3.11/-4.36	-5.22/-3.38	-7.24/-4.88	-5.75/-4.17	-5.12/-5.66	-5.75/-4.17	-1.52/-1.09	-2.45/-2.69	-1.43/-0.42	-0.46/-1.59
Θ (60°)	-4.91/-8.34	-6.03/-4.89	-6.98/-7.08	-8.15/-8.51	-7.56/-12.40	-10.26/-6.16	-9.43/-7.26	-3.01/-2.19	-4.12/-4.29	-3.34/-2.35	-4.20/-5.41	-2.12/-0.58	-0.78/-0.97	-1.95/-3.28	-3.39/-3.35	-2.35/-3.01	-3.11/-3.25	-4.95/-7.69	-7.85/-4.71	-3.31/-1.65	-1.22/-2.36	-3.23/-1.43	-0.38/-0.65	-0.95/-1.93
Θ (67.5°)	-1.80/-7.41	-7.99/-8.05	-8.56/-6.72	-7.36/-5.52	-12.49/-4.16	-8.44/-6.15	-6.43/-3.60	-1.91/-3.25	-3.39/-2.85	-2.65/-1.02	-2.56/-3.26	-0.39/-0.73	-1.00/-0.30	-0.39/-1.75	-2.91/-2.54	-6.25/-4.71	-2.34/-3.20	-2.53/-2.54	-5.32/-4.15	-1.75/-0.23	0.88/-0.23	-2.56/-1.00	-0.31/-1.06	-0.61/-0.02
Θ (75°)	-6.55/-4.06	-7.89/-6.29	-15.51/-9.35	-9.07/-3.63	-1.10/-2.34	-6.89/-5.03	-6.25/-2.96	-1.96/-3.21	-1.79/-1.87	-1.65/-1.18	-2.32/-0.38	0.21/-1.62	1.16/-1.87	2.36/-5.11	-0.11/-1.32	-5.22/-3.38	-2.24/-5.62	-1.12/-0.93	-1.52/-1.09	-2.56/-2.69	-1.43/-0.42	-0.26/-3.51	-1.45/-0.76	
Θ (82.5°)	0.08/-2.10	-3.47/-1.21	-10.12/-10.05	-12.68/-2.52	-0.92/-2.64	-5.34/-3.13	-4.74/-2.13	-2.53/-3.36	-0.27/-0.84	-1.87/-1.30	-1.14/-0.01	1.51/-1.25	1.53/-2.43	1.49/-1.25	-1.29/-5.81	-5.25/-2.36	-1.18/-2.09	-1.77/-1.67	-0.53/-1.21	-0.30/-0.34	1.14/-2.40	2.05/-2.00	0.13/-1.44	-1.18/-0.40
Θ (90°)	0.91/-1.29	-4.83/-0.65	-6.41/-7.28	-10.59/-3.16	-1.70/-3.32	-2.63/-1.22	-5.72/-4.17	-1.99/-1.79	-0.23/-0.21	-1.19/-0.17	-0.07/-0.77	1.02/-0.28	0.86/-1.04	0.56/-0.91	-0.90/-6.28	-8.07/-3.30	-2.64/-1.98	-1.79/-1.90	-1.73/-1.17	0.04/-0.69	0.56/-1.50	1.83/-2.79	0.62/-2.70	-3.35/-6.76
Θ (97.5°)	0.67/-1.04	-4.28/-1.19	-8.63/-9.99	-6.65/-4.40	-2.16/-3.28	-2.48/-1.58	-5.64/-3.25	-1.48/-0.74	-0.99/-2.20	-0.22/-0.03	0.32/-0.74	0.18/-0.65	1.83/-1.91	1.55/-1.73	0.05/-4.55	-6.95/-6.10	-3.25/-2.26	-1.89/-0.85	-1.42/-1.32	0.37/-0.09	1.91/-1.69	-1.18/-5.91	-5.85/-1.49	
Θ (105°)	0.19/-1.91	-6.50/-1.43	-7.21/-8.01	-9.30/-8.66	-3.49/-2.64	-3.18/-3.58	-6.45/-3.12	-2.08/-2.46	-1.84/-1.68	-0.69/-0.32	-0.43/-0.28	0.17/-0.86	0.04/-0.56	1.75/-1.08	-0.52/-1.80	-3.84/-4.40	-5.21/-5.75	-2.49/-2.40	-1.95/-2.25	-1.69/-1.81	-0.65/-3.85	-1.90/-0.32	-3.36/-11.20	-12.76/-2.69
Θ (112.5°)	-3.72/-1.82	-5.56/-9.43	-7.68/-13.39	-12.62/-14.88	-5.80/-5.44	-3.89/-5.65	-8.37/-3.71	-2.98/-1.95	-1.43/-0.22	-1.07/-1.00	-0.10/-0.55	0.66/-0.31	0.51/-0.29	1.48/-1.20	-0.81/-2.22	-7.35/-4.87	-4.30/-6.60	0.14/-2.97	-1.74/-4.69	-1.85/-1.50	-0.33/-2.51	-2.74/-1.06	-0.88/-10.80	-14.98/-12.96
Θ (120°)	-7.24/-6.88	-5.66/-9.94	-11.69/-13.11	-12.80/-9.79	-5.77/-4.14	-6.54/-7.83	-11.26/-6.73	-4.51/-3.25	-2.70/-3.54	-1.74/-0.96	-1.69/-2.28	-0.82/-0.24	-0.49/-0.71	0.71/-2.60	-0.03/-1.52	-5.31/-7.00	-0.67/-4.64	0.61/-0.05	0.53/-2.82	-1.00/-0.98	0.14/-1.43	-2.14/-1.05	-1.53/-9.89	-13.41/-8.65
Θ (127.5°)	-1.34/-3.60	-5.90/-5.22	-15.00/-13.59	-11.06/-7.90	-6.88/-7.59	-10.25/-13.24	-5.31/-2.95	-4.33/-4.22	-4.79/-2.41	-1.68/-1.64	-3.22/-1.52	-1.42/-4.13	-0.96/-0.62	-1.74/-0.15	0.78/-0.93	-5.62/-6.45	-5.66/-0.58	1.08/-0.56	-1.46/-2.74	-1.31/-1.55	0.69/-1.08	-4.78/-10.09	-3.78/-8.90	-10.59/-8.71
Θ (135°)	-5.57/-3.84	-6.91/-7.65	-8.78/-10.90	-9.01/-10.03	-13.38/-12.44	-10.13/-7.77	-6.60/-6.97	-6.66/-3.84	-2.82/-0.28	-2.35/-3.03	-3.68/-4.86	-5.00/-1.72	1.56/-0.68	-1.70/-0.19	1.29/-0.22	-8.53/-6.63	-5.92/-1.20	-1.77/-1.36	0.06/-4.89	-7.33/-1.65	0.16/-0.92	-1.55/-8.63	-8.27/-5.10	-11.58/-10.4
Θ (142.5°)	-5.89/-3.89	-6.10/-11.93	-15.92/-11.65	-9.21/-10.67	-13.49/-13.93	-11.05/-7.52	-5.04/-3.74	-2.38/-2.51	-5.21/-7.92	-7.64/-5.82	-4.19/-4.09	-2.57/-0.17	-0.28/-1.46	-0.57/-0.85	0.60/-1.02	-2.40/-4.27	-3.40/-2.55	-2.48/-0.49	-0.73/-3.47	-5.81/-2.84	-0.92/-2.28	-3.22/-6.36	-14.43/-6.50	-8.85/-10.02
Θ (150°)	-7.73/-8.25	-11.14/-10.80	-9.35/-11.39	-13.60/-13.64	-15.40/-14.99	-11.51/-9.49	-10.44/-12.19	-13.60/-9.69	-6.54/-4.38	-3.23/-3.16	-3.87/-5.05	-6.00/-7.48	-10.37/-10.32	-6.44/-4.04	-3.84/-5.96	-6.97/-4.23	-2.61/-2.13	-1.41/-2.57	-6.27/-8.94	-7.36/-6.19	-4.11/-3.93	-5.83/-11.65	-14.82/-9.71	-7.85/-9.18
Θ (157.5°)	-11.25/-10.79	-12.00/-12.67	-10.46/-9.42	-8.13/-8.21	-10.57/-14.58	-13.82/-11.73	-9.10/-7.09	-5.64/-4.50	-4.23/-4.69	-4.94/-5.93	-7.34/-7.75	-7.30/-6.25	-4.92/-3.51	-2.59/-2.22	-2.06									

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

