

Θ(180°)	-12.97/-13.7	-14.45/-15.24	-15.6/-17.03	-17.45/-17.23	-16.04/-15.51	-16.64/-17.87	-17.86/-18.37	-18.27/-19.04	-18.59/-18	-17.2/-16.65	-16.8/-17.9	-18.82/-18.73	-18.37/-19.29	-18.54/-17.24	-16.3/-15.56	-15.45/-15.24	-15.31/-15.44	-15.66/-16.54	-17.69/-17.44	-18.79/-18.06	-18.61/-17.89	-17.67/-15.46	-14.8/-15.02	-14.63/-13.98
Freq(Hz)	5.3GPol.	PhiAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(17°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-18.37/-18.81	-18.86/-14.41	-10.89/-8.37	-6.69/-5.6	-4.85/-4.27	-3.75/-3.26	-3.14/-3.12	-3.06/-3.28	-3.74/-4.39	-5.3/-6.31	-7.62/-9.49	-11.76/-14.72	-18.56/-18.27	-18.91/-16.37	-13.15/-10.83	-8.89/-7.16	-5.9/-5.14	-4.46/-4.02	-3.72/-3.88	-3.99/-4.28	-4.72/-5.21	-5.97/-7.12	-8.64/-10.57	-12.56/-16.16
Θ(7.5°)	-17.89/-18.37	-17.85/-18.2	-13.5/-10.36	-8.32/-6.82	-5.67/-4.77	-4.13/-3.71	-3.67/-3.53	-3.51/-3.68	-4.15/-4.74	-5.61/-6.59	-8.26/-10.15	-12.56/-15.66	-18.23/-18.92	-16.22/-12.71	-10.37/-8.59	-7.12/-6.29	-5.3/-4.53	-3.95/-3.45	-3.43/-3.66	-3.71/-3.87	-4.24/-4.74	-5.43/-6.52	-7.77/-9.18	-10.77/-14.9
Θ(15°)	-16.09/-17.68	-18.89/-17.41	-13.44/-10.52	-8.41/-6.94	-5.84/-5.55	-4.44/-4.99	-4.77/-4.42	-3.94/-3.67	-3.68/-3.9	-4.56/-5.58	-6.85/-8.73	-10.89/-13.88	-17.44/-18.08	-14.24/-16.08	-8.06/-6.59	-5.63/-5.08	-4.66/-4.21	-3.74/-3.27	-3.09/-3.02	-2.92/-2.95	-3.16/-3.48	-3.95/-4.73	-5.94/-7.47	-9.71/-13.27
Θ(22.5°)	-12.6/-15.4	-18.2/-17.85	-13.8/-11.23	-9.4/-7.38	-6.53/-6.23	-5.66/-5.63	-5.86/-6.33	-6.36/-6.64	-6.39/-6.04	-5.87/-6.39	-7.71/-9.85	-12.99/-15.88	-15.17/-12.39	-10.3/-8.9	-7.57/-6.95	-6.43/-5.99	-5.64/-5.06	-4.46/-4.21	-4.24/-4.3	-4.25/-4.31	-4.43/-4.59	-4.89/-5.49	-6.26/-7.28	-8.55/-11.04
Θ(30°)	-15.06/-17.77	-18.86/-17.78	-16.31/-14.83	-12.26/-8.79	-7.19/-6.26	-5.81/-6.01	-5.72/-6.03	-6.06/-6.35	-6.66/-6.58	-6.23/-6.13	-6.73/-8.2	-11.04/-16.03	-18.22/-12.94	-9.91/-8.39	-7.33/-6.6	-5.98/-5.17	-3.91/-2.98	-3/-3.86	-4.84/-5.11	-4.58/-4.1	-4.15/-4.89	-5.71/-6.42	-7.69/-9.14	-10.74/-12.94
Θ(37.5°)	-18.5/-17.61	-18.53/-17.15	-14.7/-12.71	-11.56/-10.48	-9.17/-6.89	-5.45/-4.14	-3.43/-3.62	-4.24/-4.68	-4.92/-4.85	-4.45/-4.43	-5.4/-7.43	-17.29/-12.12	-9.56/-7.4	-6.07/-5.73	-5.4/-4.93	-5.37/-7.26	-7.89/-5.75	-4.14/-4.23	-5.12/-5	-3.86/-2.97	-3.14/-4.03	-6.18/-9.36	-12.19/-15.51	
Θ(45°)	-18.68/-18.44	-18.17/-15.74	-11.83/-8.45	-6.23/-5.08	-4.36/-3.48	-2.64/-1.77	-1.62/-1.54	-1.77/-2.49	-3.77/-4.58	-5.01/-4.61	-4.32/-5.14	-6.79/-12.3	-18.37/-17.93	-10.83/-8.16	-6.87/-5.17	-4.04/-3.87	-3.69/-1.97	-1.23/-1.93	-2.82/-3	-2.87/-2.98	-3.46/-3.77	-4.12/-4.89	-7.04/-11.5	-16.7/-15.2
Θ(52.5°)	-18.28/-18.32	-15.5/-10.98	-8.34/-6.34	-5.94/-5.03	-4.04/-3.15	-2.84/-1.81	-1.15/-1.3	-1.84/-2.71	-4.41/-6.39	-7.77/-7.03	-5.6/-5.47	-6.7/-11.92	-13.3/-16.93	-10.99/-8.4	-5.56/-4.84	-5.16/-4.25	-3.2/-2.74	-1.88/-1.1	-0.88/-1.33	-2.4/-3.6	-3.94/-3.88	-4.27/-5.2	-7.24/-12.01	-18.05/-18.55
Θ(60°)	-15.2/-13.3	-11.55/-9.15	-7.79/-6.65	-6.26/-5.75	-4.98/-3.88	-2.65/-1.63	-1.04/-0.81	-0.98/-1.76	-3.89/-7.47	-10.68/-13.03	-11.81/-8.48	-6.66/-7.44	-19.94/-18.41	-3.57/-3.41	-5.59/-4.59	-3.52/-3.53	-3.13/-2.23	-1.57/-1.13	-1.36/-2.35	-3.58/-5.39	-7.27/-8.11	-7.73/-8.12	-10.15/-13.83	-14.07/-15.78
Θ(67.5°)	-12.32/-13.58	-13.56/-12.02	-10.26/-9.86	-9.76/-9.09	-8.6/-6.81	-4.64/-3.22	-2.53/-2.47	-3.05/-3.99	-6.13/-11.4	-18.88/-18.1	-19.45/-12	-8.46/-9.16	-12.96/-16.47	-10.21/-4.81	-3.26/-2.14	-2.92/-2.82	-3.21/-2.72	-2.72/-2.67	-2.58/-3.74	-5.11/-7.06	-8.59/-7.21	-6.93/-7.6	-10.12/-15.41	-14.92/-12.72
Θ(75°)	-17.2/-16.09	-15.39/-12.65	-9.2/-9.18	-10.98/-12.28	-10.53/-9.78	-6.84/-5.82	-5.18/-5.15	-5.48/-6.04	-7.46/-13.35	-17.1/-16.37	-14.16/-16.77	-15.72/-12.73	-12.81/-14.82	-10.64/-6.44	-5.3/-3.9	-3.44/-4.49	-4.09/-3	-2.13/-2.04	-2.13/-2.14	-4.21/-5.77	-7.29/-9.21	-7.79/-7.58	-9.2/-11.22	-11.54/-11.65
Θ(82.5°)	-14.58/-18.41	-18.52/-16.91	-12.3/-10.6	-9.19/-8.33	-8.29/-8.6	-7.27/-4.83	-4.57/-5.53	-7.27/-8.64	-10.39/-15.31	-19.08/-12.8	-11.44/-14.71	-18.35/-18.02	-16.86/-12.73	-7.86/-5.56	-5.27/-6.11	-7.27/-8.85	-5.41/-2.34	-1.96/-1.51	-2.49/-5.44	-5.84/-5.43	-5.75/-6.7	-5.69/-5.88	-6.51/-7.11	-9.43/-11.93
Θ(90°)	-15.88/-15.91	-12.89/-10.66	-8.28/-8.48	-10.55/-11.89	-11.34/-7.55	-5.69/-5.39	-5.24/-5.31	-6.03/-7.68	-10.14/-13.12	-17.47/-17.6	-13.68/-12.5	-14.21/-19.11	-17.66/-13.85	-11.34/-9.96	-12.5/-10.71	-10.58/-12.61	-7.3/-3.77	-1.97/-2.01	-3.41/-3.87	-6.08/-7.79	-6.23/-4.38	-3.68/-4.03	-5.77/-7.62	-14.16/-15.16
Θ(97.5°)	-17.15/-14	-10.05/-7.92	-8.34/-11.23	-15.84/-15.72	-13.84/-13.56	-12.7/-8.45	-7.71/-8.92	-10.27/-14.2	-11.95/-16.63	-16.56/-14.39	-15.57/-17.44	-14.15/-14.15	-10.72/-10.72	-12.71/-12.72	-12.86/-16.52	-15.47/-18.27	-17.49/-6.77	-5.16/-2.81	-4.22/-3.1	-4.77/-5.98	-6.56/-5.43	-4.85/-5.84	-10.53/-14.36	-16.72/-17.7
Θ(105°)	-17.41/-14.53	-8.44/-5.4	-5.09/-8.13	-14/-16.77	-15.52/-14.72	-18.22/-14.17	-14.32/-16.23	-15.53/-17.3	-18.76/-18.16	-16.41/-13.73	-15.15/-11.5	-14.53/-14.84	-11.75/-8.4	-8.55/-13.26	-18.9/-18.99	-18.4/-16.76	-18.73/-18.41	-9.67/-7.55	-13.52/-10.13	-8.67/-9.56	-7.08/-4.34	-7.8/-9.65	-9.89/-13.17	-17.97/-18.07
Θ(112.5°)	-18.82/-12.69	-8.35/-5.54	-6.52/-9.03	-14.98/-19.3	-14.46/-13.72	-16.41/-17.3	-19.44/-18.74	-18.93/-18.78	-13.78/-10.7	-8.29/-7.89	-9.96/-13.52	-17.31/-18.11	-10.72/-9.15	-15.46/-13.06	-14.25/-18.58	-11.64/-6.35	-7.01/-7.75	-13.53/-16.64	-11.46/-17.42	-14.31/-10.43	-8.08/-7.29	-9.74/-10.12	-14.4/-18.87	-19.39/-18.95
Θ(120°)	-13.45/-9.47	-7.18/-7.17	-7.79/-14.71	-17.34/-14.51	-14.77/-11.95	-9.59/-10.49	-11.44/-10.27	-11.44/-11.73	-10.43/-10.29	-8.99/-9	-8.12/-10.85	-15.66/-18.72	-16.97/-10.14	-11.41/-8.03	-14.05/-14.13	-18.6/-8.52	-6.89/-3.92	-12.44/-12.94	-11.38/-9.13	-5.21/-6.23	-5.51/-11.09	-14.99/-11.77	-13.61/-18.97	-14.22/-11.4
Θ(127.5°)	-12.24/-10.14	-8.23/-4.73	-7.67/-7.72	-11.06/-15.18	-18.74/-18.93	-14.13/-8.97	-7.97/-9.21	-7.29/-6.3	-7.72/-8.48	-11.83/-9.83	-9.31/-10.76	-13.19/-18.49	-13.44/-6.77	-9.91/-6.23	-9.65/-17.76	-7.42/-5.85	-4.55/-3.77	-6.82/-6.26	-8.45/-7.95	-4.56/-8.86	-7.96/-17.96	-16.79/-19.15	-17.94/-17.9	-13.43/-14.56
Θ(135°)	-17.23/-15.47	-13.85/-10.37	-9.07/-7.53	-7.14/-9.12	-12.95/-18.77	-12.62/-9.71	-7.14/-5.12	-5.19/-5.22	-4.3/-5.2	-8.24/-15.61	-18.46/-12.54	-10.35/-9.6	-14.9/-15.94	-10.31/-12.03	-10.47/-9.33	-6.44/-8.21	-3.46/-6.21	-9.06/-7.49	-9.07/-7.4	-5.62/-9.33	-13.4/-14.73	-17.88/-18.05	-17.85/-18.27	-14.13/-17.71
Θ(142.5°)	-14.12/-14.08	-14.21/-12.16	-11.43/-10.09	-8.34/-7.85	-7.66/-8.05	-1.07/-12.4	-10.68/-8.62	-5.88/-4.2	-4.12/-5.34	-8.71/-15.32	-17.32/-18.59	-16.58/-17.99	-18.79/-18	-18.43/-13.08	-6.57/-8.53	-13.61/-8.54	-4.88/-4.54	-5.57/-6.61	-3.55/-6.15	-14.98/-16.77	-18.43/-18.14	-18.98/-13.8	-11.51/-11.99	
Θ(150°)	-15.71/-16.09	-18.9/-17.59	-16.46/-13.13	-10.14/-6.55	-5.09/-4.37	-4.4/-5.57	-7.57/-8.84	-9.33/-9.54	-9.61/-9.92	-12.23/-15.71	-19.66/-18.24	-19.35/-18.85	-18.27/-17.86	-15.14/-10.82	-19.61/-13.02	-17.91/-11.64	-9.05/-8.99	-9.87/-8.88	-9.83/-12.85	-19.44/-17.48	-16.29/-19.12	-15.46/-15.23	-18.33/-18.39	
Θ(157.5°)	-17.54/-17.13	-16.95/-16.05	-13.86/-13.38	-13.31/-12.33	-9.91/-7.93	-6.78/-6.21	-7.14/-9.09	-12.75/-18.47	-19.42/-18.19	-17.71/-18.41	-18.53/-17.52	-18.88/-18.55	-18.72/-15.83	-13.19/-10.71	-9.44/-9.76	-13.05/-16.78	-9.66/-6.43	-6/-7.64	-9.63/-11.28	-11.3/-10.29	-8.32/-7.55	-8.8/-11.08	-13.2/-15.16	-16.37/-15.89
Θ(165°)	-17.85/-16	-14.53/-14.63	-14.69/-14.15	-12.43/-10.74	-9.43/-8.38	-8.05/-8.78	-8.07/-8.53	-9.08/-9.58	-10.59/-13.22	-15.38/-17.32	-17.99/-18.6	-16.89/-15.83	-14.02/-13.9	-16.36/-18.2	-17.42/-11.78	-7.99/-9.24	-10.4/-11.75	-11.39/-3.92	-8.23/-8.29	-9.78/-12.51	-15.3/-15.95	-17.7/-17.78		
Θ(172.5°)	-18.13/-19.3	-18.79/-17.93	-19.16/-17.96	-18.25/-18.7	-18.46/-17.24	-18.45/-17.58	-18.48/-18.84	-18.81/-18.94	-18.54/-17.95	-16.34/-16.84	-18.53/-18.95	-18.59/-18.05	-19.17/-17.49	-18.27/-18.35	-17.75/-16.71	-15.81/-15.46	-15.61/-16.52	-17.8/-18.7	-17.73/-15.86	-15.32/-16.18	-18.43/-18.29	-17.99/-18.8	-18.47/-19.2	
Θ(180°)	-17.81/-18.55	-19.19/-17.65	-18.67/-18.87	-17.89/-15.44	-15.03/-15.16	-14.45/-14.56	-14.18/-13.68	-13.82/-14.09	-14.35/-15.22	-15.65/-16.79	-17.76/-18.42	-17.88/-18.26	-19.17/-68	-18.7/-17.72	-18.03/-17.73	-17.64/-18.88	-17.03/-18.8	-17.78/-18.82	-17.7/-19.01	-17.46/-19.27	-17.86/-17.58	-19.25/-19.28	-18.45/-18.94	-18.99/-18.69
Freq(Hz)	5.3GPol.	ThetaAnt. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gain	Φ(17°)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°)	-4.61/-4.24	-4.2/-4.3	-4.56/-4.77	-5.36/-5.9	-6.99/-8.44	-10.01/-12.5	-16.05/-18.23	-19.02/-19.1	-13.83/-10.42	-8.18/-6.77	-5.66/-4.79	-4/-3.42	-3.01/-2.78	-2.77/-2.97	-3.46/-3.89	-4.51/-5.55	-6.92/-8.56	-10.42/-12.93	-16.48/-18.9	-17.24/-18.94	-14.43/-11.33	-9.11/-7.47	-6.48/-5.97	-5.37/-4.94
Θ(7.5°)	-3.65/-3.26	-3.35/-3.57	-3.78/-4.17	-5.01/-5.84	-6.91/-7.96	-9.11/-10.99	-13.67/-18.08	-17.01/-18.29	-18.44/-13.16	-10.11/-8.06	-6.72/-6.67	-4.81/-4.22	-3.72/-3.27	-3.22/-3.35	-3.58/-4.07	-4.7/-5.84	-7.31/-9.19	-11.68/-10.57	-16.68/-18.44	-18.49/-14.78	-11.67/-9.45	-7.89/-6.79	-5.85/-5.24	-4.32/-4.02
Θ(15°)	-2.45/-2.41	-2.7/-2.98	-3.3/-3.88	-5.18/-6.66	-7.82/-9.09	-10.38/-11.72	-13.17/-14.9	-17.01/-18.14	-17.49/-13.92	-9.68/-9.57	-5.01/-3.98	-3/-2.47	-2.39/-2.55	-3.03/-3.85	-5.22/-7.07	-9.35/-11.9	-15.57/-18.5	-19.77/-17.78	-15.1/-17.7	-9.06/-7.26	-5.87/-4.74	-3.66/-3.08	-2.63/-2.59	
Θ(22.5°)	-3.1/-3.46	-3.55/-3.77	-4.58/-6.1	-8.56/-10.29	-11.46/-12.86	-13.85/-13.69	-12.96/-11.81	-10.65/-10.43	-10.43/-10.27	-8.97/-7.75	-6.56/-5.33	-3.93/-2.9	-2.55/-2.73	-3.22/-3.98	-5.21/-6.89	-8.98/-11.14	-13.81/-17.29	-18.96/-18.87	-17.92/-15.74	-13.21/-11.18	-9.6/-8.29	-6.77/-5.61	-4.48/-3.89	-3.41/-3.39
Θ(30°)	-3.69/-4.81	-5.89/-6.95	-8.91/-																					



Radiated Composite Gain of 2.4GHz and 5GHz UNII 1~3

Appendix A

Θ(30°)	-16.78/-18.46	-16.66/-15.05	-12.6/-9.99	-8.27/-7.56	-6.6/-5.97	-4.8/-4.51	-4.66/-4.91	-5.36/-5.88	-6.69/-7.52	-8.19/-9.11	-9.17/-8.5	-8.53/-10.44	-14.08/-18.35	-17.79/-12.94	-9.79/-7.17	-5.14/-3.61	-2.38/-1.79	-1.96/-2.39	-2.74/-2.94	-3.42/-3.76	-4.24/-5.28	-6.17/-7.21	-8.89/-9.96	-12.41/-15.28
Θ(37.5°)	-15.92/-17.12	-15.79/-13.72	-11.47/-10.02	-7.87/-5.94	-4.48/-3.95	-3.09/-3.24	-3.48/-3.39	-3.37/-3.85	-5.15/-6.65	-7.49/-8.76	-10.57/-11.36	-12.5/-15.36	-18.53/-19.64	-13.37/-10.09	-8.22/-6.06	-4.05/-3.18	-3.65/-4.47	-4.51/-4.42	-4.84/-5.33	-5.15/-4.84	-4.22/-3.7	-4.15/-5.33	-7.35/-10.43	-13.92/-15.48
Θ(45°)	-18.72/-19.11	-17.67/-17.45	-14.53/-11.31	-8.29/-5.66	-3.92/-3.06	-2.23/-2.15	-1.84/-1.96	-2.44/-2.93	-3.54/-4.55	-5.93/-7.54	-9.93/-12.53	-12.77/-16.39	-17.94/-18.55	-13.28/-10.82	-8.36/-6.52	-6.41/-6.78	-5.59/-5.23	-6.73/-7.02	-5.97/-6.73	-8.4/-7.99	-6.28/-4.99	-4.2/-5.11	-6.93/-10.75	-13.01/-15.91
Θ(52.5°)	-17.53/-18.73	-17.55/-14.48	-12.16/-10.28	-7.72/-5.45	-3.92/-2.74	-1.91/-1.58	-1.53/-1.58	-1.8/-2.36	-2.81/-3.4	-4.67/-6.33	-8.8/-12.15	-13.48/-17.79	-19.21/-18.96	-14.17/-13.06	-9.28/-8.15	-6.47/-4.43	-4.27/-4.3	-3.43/-3.26	-3.95/-4.42	-4.72/-4.83	-5.02/-4.78	-3.63/-4.1	-5.23/-7.33	-11.19/-17.39
Θ(60°)	-18.83/-16.35	-15.15/-11.83	-9.05/-9.2	-9.31/-7.38	-4.74/-2.76	-1.55/-0.91	-0.84/-1.62	-2.57/-3.42	-4.34/-4.69	-4.75/-5.33	-7.65/-10.55	-11.88/-12.44	-16.25/-18.69	-14.05/-11.37	-9.33/-8.12	-7.68/-8.93	-7.41/-6.2	-4.24/-3.19	-2.95/-3.37	-4.66/-6.51	-5.43/-3.7	-2.93/-2.76	-5.8/-10.82	-17.31/-19.15
Θ(67.5°)	-13.79/-11.12	-9.54/-7.54	-7.19/-7.41	-8.39/-8.55	-7.15/-5.84	-4.2/-2.54	-1.3/-0.93	-1.75/-4.03	-7.31/-9.88	-9.32/-8.52	-11.37/-13.89	-12.23/-12.85	-18.21/-15.2	-10.03/-10.87	-7.59/-9	-7.18/-5.65	-5.5/-4.66	-3.93/-2.79	-2.57/-3.55	-4.27/-5.71	-5.87/-4.88	-4.51/-5.43	-9.05/-18.49	-17.67/-15.65
Θ(75°)	-8.62/-7.88	-8.92/-10.01	-10.18/-11.88	-14.57/-17.82	-15.47/-11.27	-6.45/-2.87	-1.67/-2.08	-2.8/-4.38	-8.27/-14.25	-19.14/-14.58	-13.97/-16.43	-17.81/-12.68	-17.71/-18.44	-14.41/-10.85	-9.23/-8.23	-5.89/-5.92	-5.83/-6.46	-4.92/-5.97	-3.65/-3.92	-5.87/-7.49	-10.52/-9.13	-9.46/-12.54	-18.4/-17.65	-18.84/-11.03
Θ(82.5°)	-9.1/-10.69	-12.4/-11.01	-12.22/-15.49	-16.74/-17.92	-11.84/-6.41	-4.25/-3.18	-2.21/-2.1	-3.92/-8.77	-16.5/-18.2	-18.29/-16.41	-18.15/-18.47	-17.3/-15.48	-18.27/-17.73	-13.14/-8.68	-7.28/-7.22	-5/-5.19	-8.31/-6.24	-3.98/-3	-3.08/-1.94	-3.1/-5.4	-7.43/-10.52	-10.02/-12.87	-11.05/-9.89	-12.68/-9.15
Θ(90°)	-10.15/-12.12	-13.28/-10.17	-11.04/-13.15	-14.06/-11.72	-8.55/-5.01	-3.69/-1.82	-1.14/-2.64	-5.02/-8.54	-14.01/-14.19	-14.64/-16.41	-13.93/-12.76	-18.5/-18.45	-17.84/-19.34	-14.08/-11.55	-10.05/-9.93	-6.89/-10.41	-12.82/-6.57	-3.88/-0.8	-0.69/-3.02	-3.34/-4.15	-5.38/-5.84	-4.66/-5.28	-6.38/-8.19	-10.98/-10.76
Θ(97.5°)	-11.11/-14.58	-9.32/-6.26	-8.7/-10.88	-12.6/-12.84	-9.18/-4.15	-3.3/-2.25	-2.35/-4.11	-6.46/-9.1	-12.87/-18.04	-15.37/-13.24	-13.02/-10.98	-16.72/-18.98	-12.48/-15.14	-10.56/-10.48	-10.24/-13.47	-10.38/-12.87	-18.39/-8.37	-2.82/-1.7	-2.32/-3.21	-5.73/-5.2	-4.11/-3.04	-3.34/-5.03	-6.35/-9.02	-10.16/-9.7
Θ(105°)	-17.26/-13.37	-5.64/-4.73	-6.77/-11.6	-15.69/-11.82	-9.31/-6.98	-7.8/-6.39	-6.15/-9.11	-13.98/-18.67	-18.64/-17.39	-17.88/-13.26	-15.94/-16.61	-15.67/-14.64	-14.98/-11.08	-15.4/-13.95	-10.52/-12.27	-12.48/-10.5	-7.69/-11.11	-5.49/-2.42	-8.18/-5.83	-6.67/-7.24	-4.64/-3.45	-5.95/-7.49	-10.45/-18.42	-15.84/-18.47
Θ(112.5°)	-18.87/-13.46	-9.12/-5.85	-6.24/-11.96	-18.56/-15.96	-14.75/-13.28	-12.03/-13.37	-18.75/-18.71	-17.44/-19.1	-13.01/-13.65	-14.41/-12.51	-12.66/-16.97	-17.15/-13.2	-10.73/-8.46	-14.53/-12.99	-14.59/-10.81	-11.08/-6.05	-5.2/-6.48	-7.11/-8.07	-5.95/-8.06	-17.24/-11.03	-6.47/-5.81	-9.59/-9.55	-9.37/-18.29	-15.23/-18.41
Θ(120°)	-11.46/-10.84	-7.5/-7.42	-8.15/-8.89	-12.83/-15.71	-18.81/-15.28	-12.77/-10.18	-8.27/-8.33	-10.25/-7.94	-7.54/-10.32	-12.53/-10.9	-8.93/-10.02	-13.45/-16.58	-13.69/-8.85	-11.26/-9.16	-9.18/-17.95	-12.04/-6.77	-5.35/-5	-9.98/-18.68	-12.49/-15.44	-11.95/-8.7	-6.84/-9.63	-18.78/-11.11	-19.02/-19.03	-16.31/-16
Θ(127.5°)	-9.73/-7.58	-7.56/-9.5	-12.41/-18.48	-19.24/-18.33	-12.74/-11.3	-8.86/-6.72	-6.13/-5.58	-4.49/-4.84	-7.08/-10.6	-13.65/-9.9	-9.1/-11.55	-15.77/-18.9	-16.35/-12.87	-15.03/-13.8	-14.78/-11.84	-14.93/-9.86	-8.87/-9.61	-8.74/-5.19	-6.16/-9.61	-7.09/-11.05	-11.19/-18.09	-18.86/-19.71	-17.38/-17.49	-16.42/-12.57
Θ(135°)	-10.07/-9.23	-7.68/-8.93	-10.78/-11.89	-12.25/-14.55	-15.35/-8.9	-6.98/-6.03	-4.93/-4.16	-4.65/-5.73	-7.58/-10.76	-13.1/-12.16	-10.75/-10.1	-12.4/-18.66	-19.05/-12.71	-13.03/-18.88	-18.02/-19.23	-9.46/-5.78	-7.39/-6.47	-7.36/-6.21	-6.62/-11.51	-15.59/-19.12	-13.63/-13.43	-14.61/-18.57	-15.46/-12.95	
Θ(142.5°)	-13.77/-15.25	-16.29/-18.05	-19.7/-14.31	-10.05/-7.4	-7.74/-10.78	-11.06/-8.28	-7.36/-7.12	-7/-7.98	-9.75/-12.02	-17.69/-18.41	-14.7/-13.72	-14.32/-18.35	-19.22/-15.82	-15/-18.14	-9.73/-7.54	-13.87/-18.76	-18.57/-18.75	-9.5/-7.3	-7.63/-7.26	-6.31/-9.29	-18.11/-18.36	-15.07/-17.53	-17.74/-18.06	-14.62/-12.44
Θ(150°)	-18.41/-14.4	-15.92/-18.77	-14.56/-18.93	-14.23/-9.22	-6.26/-5.47	-6.38/-7.45	-8.42/-10.15	-13.43/-18.02	-19.03/-19.55	-18.76/-17.89	-18.66/-18.1	-19.08/-17.52	-17.98/-17.63	-18.77/-18.12	-13.92/-15.71	-16.74/-13.94	-18.67/-11.11	-7.81/-8.85	-10.72/-10.16	-9.32/-10.82	-16.3/-16.66	-18.38/-18.21	-18.95/-17.97	-15.27/-11.68
Θ(157.5°)	-16.59/-14.72	-11.62/-9.4	-8.8/-9.48	-10.94/-11.11	-10.39/-9.14	-9.1/-10.85	-14.76/-17.7	-15.93/-14.61	-14.87/-13.13	-11.83/-11.76	-11.56/-12.63	-14.85/-16.48	-18.86/-18.32	-17.27/-18.81	-17.65/-17.41	-14.39/-18.98	-17.99/-4.11	-7.32/-8.59	-10.61/-12.33	-12.55/-12.79	-13.29/-13.17	-13.54/-13.91	-14.48/-15.08	-16.08/-15.9
Θ(165°)	-17.51/-13.92	-10.89/-8.62	-8.37/-9.8	-11.55/-13.23	-14.84/-15.57	-15.63/-15.19	-14.94/-15.77	-17.5/-18.36	-17.3/-18.5	-19.02/-16.43	-14.5/-14.53	-16.55/-19.23	-18.56/-18.57	-17.93/-16.79	-16.18/-17.22	-18.37/-17.95	-12.23/-8.99	-7.62/-8.23	-10.22/-13.5	-14.85/-13.21	-11.26/-9.9	-10.47/-12.17	-14.54/-16.32	-18.27/-17.69
Θ(172.5°)	-17.93/-17.03	-14.28/-12.07	-13.97/-13.98	-14.4/-14.27	-13.84/-15.31	-11.32/-17.63	-17.78/-17.36	-17.03/-14.04	-12.4/-12.43	-12.88/-14.01	-16.56/-17.61	-17.92/-17.73	-17.95/-18.05	-18.92/-18.37	-17.57/-18.2	-16.72/-16.38	-17.45/-19.3	-17.91/-17.49	-18.87/-16.32	-13.89/-13.22	-14.02/-15.39	-18.55/-18.42	-17.96/-18.47	
Θ(180°)	-17.73/-17.47	-17.28/-17.61	-19.23/-17.9	-18.26/-18.52	-17.24/-17.99	-18.77/-18.25	-17.75/-19.21	-18.81/-19.06	-18.84/-16.01	-15.7/-16.59	-17.02/-18.02	-18.68/-18.25	-17.76/-19.29	-18.84/-18.38	-19.03/-18.55	-18.22/-18.92	-17.48/-16.56	-16.69/-16.13	-15.64/-15.5	-15.45/-15.39	-15.07/-16.45	-17.91/-18.17	-18.38/-18.87	-18.62/-18.44
Freq(Hz)	5.785GPol.	Theta/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°)	-2.43/-2.49	-2.7/-2.7	-3.01/-3.53	-3.99/-4.82	-6.09/-7.8	-10.16/-12.76	-16.22/-19.04	-17.73/-13.75	-11.05/-8.49	-6.46/-4.92	-3.86/-3.05	-2.36/-1.92	-1.59/-1.38	-1.33/-1.61	-2.15/-2.73	-3.67/-4.94	-6.42/-8.51	-10.76/-12.58	-14.48/-14.48	-13.35/-10.95	-8.94/-7.02	-5.42/-4.21	-3.26/-2.6	-2.41/-2.39
Θ(7.5°)	-1.94/-1.85	-1.93/-2.05	-2.45/-2.8	-3.28/-3.89	-5.17/-6.89	-8.73/-10.65	-12.12/-13.12	-12.73/-11.2	-9.39/-7.84	-6.44/-5.15	-4.08/-3.19	-2.68/-2.33	-2.21/-2.11	-2.29/-2.78	-3.25/-3.98	-4.98/-6.16	-7.91/-9.97	-12.78/-16.56	-18.09/-17.54	-15.29/-11.48	-8.79/-6.56	-4.98/-3.85	-2.93/-2.67	-2.37/-2.16
Θ(15°)	-1.72/-1.61	-1.7/-1.94	-2.52/-2.9	-3.55/-4.4	-5.89/-7.07	-8.5/-10.26	-11.78/-11.88	-11.15/-10.05	-9.11/-8.47	-7.92/-7	-5.73/-4.57	-3.79/-3.26	-3.14/-3.36	-3.84/-4.07	-4.19/-4.46	-4.79/-5.3	-6.37/-7.88	-9.92/-13.21	-17.67/-19.59	-15.44/-11.73	-8.9/-7.11	-5.82/-4.83	-3.88/-3.3	-2.54/-2.07
Θ(22.5°)	-3.04/-2.59	-2.41/-2.7	-2.99/-3	-3.28/-4.12	-5.2/-6.65	-8.5/-10.41	-11.97/-12.94	-12.15/-10.37	-8.41/-6.94	-6.04/-5.73	-5.25/-4.4	-3.9/-3.77	-3.91/-3.99	-3.73/-3.48	-3.28/-3.18	-3.46/-4.3	-5.7/-7.38	-9.53/-12.29	-15.06/-14.08	-11.83/-9.6	-7.68/-5.93	-5.1/-4.61	-4.27/-4.17	-4.05/-3.64
Θ(30°)	-3.13/-2.7	-2.96/-3.32	-3.19/-3.1	-3.75/-4.81	-5.83/-7.53	-9.73/-11.79	-12.96/-11.58	-10/-9.13	-8.4/-6.7	-4.95/-4.18	-3.63/-3	-2.95/-3.37	-3.57/-3.53	-3.43/-3.61	-3.35/-2.85	-2.8/-3.6	-4.89/-6.65	-9/-11.16	-12.32/-12.81	-12.34/-10.36	-8.19/-6.23	-5.12/-4.55	-4.3/-4.28	-4.36/-4.26
Θ(37.5°)	-4.74/-3.43	-2.58/-2.69	-2.51/-3.18	-4.81/-6.31	-7.23/-8.42	-8.67/-8.59	-8.07/-7.99	-7.77/-7.14	-6.82/-6.28	-4.91/-4.15	-3.71/-3.98	-5.49/-5.89	-6.21/-6.82	-5.89/-4.32	-3.19/-2.79	-3.23/-4.33	-6.87/-10.08	-11.31/-11.4	-11.01/-10.58	-10.57/-9.79	-7.56/-5.25	-3.71/-3.11	-3.07/-3.52	-3.99/-4.34
Θ(45°)	-3.69/-3.76	-3.8/-4.9	-7.21/-11.03	-15.06/-15.71	-12.66/-10.55	-9.4/-8.91	-8.35/-7.96	-7.61/-6.89	-5.81/-5.07	-4.02/-2.89	-1.94/-1.91	-2.72/-3.31	-4.24/-5.44	-5.74/-4.99	-3.24/-2.81	-3.81/-6.81	-9.52/-10.14	-12.15/-16.48	-17.61/-15.67	-15.41/-14.57	-14.7/-12.28	-9.59/-7.58	-6.57/-5.52	-5.21/-4.45
Θ(52.5°)	-5.54/-5.42	-7.41/-12.12	-17.88/-14.8	-14.43/-11.36	-10.41/-10.15	-9.82/-9.65	-8.93/-7.9	-6.61/-5.81	-5.18/-4.35	-3.9/-2.93	-1.99/-0.95	-1.38/-1.95	-3.19/-5.3	-4.17/-3.61	-3.32/-4.31	-5.14/-5.68	-7.1/-10.12	-10.58/-12.96	-15.31/-15.12	-12.3/-10.71	-11.77/-13.17	-12.14/-8.84	-7/-5.57	-5.35/-5.24
Θ(60°)	-5.22/-5	-5.57/-7.9	-7.54/-7.56	-7.61/-9.22	-9.63/-10.69	-11.15/-10.08	-7.9/-5.92	-4.57/-3.36	-3/-2.59	-3.02/-2.67	-2.08/-1.43	-1.03/-1.31	-2.43/-3.47	-3.38/-3.01	-2.49/-2.67	-4.82/-7.87	-9.06/-10.05	-10.26/-11.27	-14.22/-14.86	-14.74/-14.37	-13.48/-14.37	-15.19/-10.89	-9.84/-7.93	-6.63/-5.65
Θ(67.5°)	-4.88/-5.33	-7.58/-10.1	-9.15/-8.29	-7.35/-7.28	-6.96/-7.08	-7.11/-7.25	-6.66/-5.81	-4.79/-3.34	-2.9/-2.41	-2.51/-2.05	-0.76/-0.01	-0.03/-1.25	-2.21/-2.68	-1.89/-2	-1.59/-4.12	-5.58/-6.36	-6.21/-6.27	-6.8/-7.85	-8.59/-10.74	-13.59/-14.92	-15.45/-18.44	-17.77/-18.37	-15.4/-12.09	-8.64/-5.48
Θ(75°)	-11.37/-8.84	-11.22/-10.72	-9.03/-7.94	-5.87/-6.07	-5.69/-6.02	-6.62/-8.01	-8.55/-7.04	-5.5/-4.87	-5.01/-4.92	-4.12/-4.27	-2.34/-0.61	0.69/2.01	0.37/-1.52	-1.37/-1.77	-1.97/-2.7	-5.63/-7.97	-8.24/-6							



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Freq(Hz)	6.175G	6.475G
Ant. 1 Max Gain (dBi)	1.72	1.94
Ant. 2 Max Gain (dBi)	1.68	1.96
Ant. 3 Max Gain (dBi)	2.77	2.37
Ant. 4 Max Gain (dBi)	2.08	1.77
Ant. 1 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/82.5/187.5	Phi/97.5/157.5
Ant. 2 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Phi/165/127.5	Theta/157.5/217.5
Ant. 3 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/135/262.5	Theta/135/262.5
Ant. 4 Polarization/ $\theta(^{\circ})/\phi(^{\circ})$	Theta/60/172.5	Theta/37.5/180
Max Gain (dBi)	2.77	2.37
DG [1SS] (dBi)	4.13	4.12
DG [2SS] (dBi)	2.77	2.37
DG [4SS] (dBi)	2.77	2.37

DG 1SS Result

Freq(Hz)	6.175GPol.	Phv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	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°)	-3.41±2.86	-2.34±2.01	-1.97±2.01	-1.87±1.57	-1.43±1.5	-1.68±1.69	-1.76±1.58	-1.54±1.6	-1.56±1.68	-2.18±2.98	-3.72±4.38	-4.36±4.31	-3.56±2.93	-2.43±2.04	-1.95±1.71	-1.73±1.73	-1.89±2.08	-2.03±2	-1.96±1.62	-1.37±1.32	-1.43±1.91	-2.35±2.92	-3.72±4.14	-3.89±3.75
Θ(7.5°)	-3.57±2.71	-2.41±2	-1.94±1.83	-1.9±1.98	-2.12±2.01	-1.61±1.55	-1.79±1.62	-1.29±1.22	-1.57±2.06	-2.47±2.9	-3.48±4.06	-4.41±4.46	-3.83±3.02	-2.5±1.94	-1.51±1.24	-1.31±1.33	-1.28±1.13	-1.45±1.74	-2.32±1.96	-1.47±1.15	-1.33±1.75	-2.44±3.31	-4.09±4.2	-3.77±3.85
Θ(15°)	-2.94±2.76	-2.82±2.72	-3.2±3.39	-3.67±3.86	-4.03±3.68	-3.15±2.5	-1.88±1.36	-1.09±0.86	-0.63±0.77	-1.48±2.4	-2.84±2.95	-3.37±3.73	-3.67±3.19	-2.81±2.29	-1.96±1.61	-1.64±1.96	-2.34±2.35	-2.58±3.2	-4.14±3.63	-4.59±4.42	-3.51±2.99	-2.56±2.71	-3.14±3.39	-3.2±3.09
Θ(22.5°)	-3.11±3.58	-3.12±3.36	-3.36±4.79	-5.21±4.5	-3.84±3.97	-3.58±3.63	-3.83±3.3	-5.21±4.87	-1.44±1.35	-1.75±2.15	-2.41±2.58	-2.41±2.39	-2.65±2.77	-2.86±2.49	-1.89±2.1	-2.69±3.26	-3.97±4.64	-5.26±5.79	-6.63±8	-6.78±7.8	-6.15±4.4	-5.92±2.06	-1.56±2.23	-2.52±3.16
Θ(30°)	-3.18±3.13	-2.92±3.21	-4.5±4.99	-3.86±3.64	-3.25±2.66	-2.23±2.09	-2.08±2.01	-1.87±1.79	-1.86±2.18	-2.59±2.62	-2.81±2.94	-2.47±1.74	-1.77±2.26	-2.63±1.93	-1.45±2.08	-2.68±3.24	-3.55±3.3	-3.44±1	-5.46±6.28	-6.91±6.69	-6.31±5.86	-5.05±3.22	-1.46±1.41	-1.95±2.84
Θ(37.5°)	-3.27±3.69	-4.07±4.7	-6.07±4.78	-2.87±2.15	-1.6±1.66	-1.2±0.21	-0.16±0.71	-0.46±0.71	-1.13±2.05	-2.52±2.3	-2.49±2.66	-3.03±3.03	-3.38±3.16	-1.94±2	-3.29±4.15	-4.15±3.48	-4.08±5.98	-6.86±7.47	-7.47±6.42	-6.26±5.74	-4.45±4.47	-4.29±3.37	-1.68±0.63	-1.21±2.39
Θ(45°)	-3.65±4.56	-5.28±5.04	-5.77±4.69	-3.52±3.37	-3.52±3.14	-1.95±1.04	-0.60±0.75	-1.02±1.76	-2.04±2.04	-2.5±2.36	-1.97±1.91	-1.59±1.29	-1.37±2.63	-2.34±3.49	-4.61±5.52	-4.71±5.25	-6.5±7.33	-6.29±7.02	-9.06±8.11	-6.6±4.74	-4.58±2.94	-3.24±2.42	-1.61±1.33	-1.24±2.15
Θ(52.5°)	-4.15±6.21	-7.4±5.84	-5.91±4.38	-4.16±4.4	-4.28±3.4	-2.74±2.47	-2.58±2.48	-2.64±3.18	-2.97±2.81	-3.27±3.07	-1.66±0.89	-1.23±1.18	-2.01±3.68	-3.65±4.96	-5.69±5.22	-6.04±6.95	-7.6±14	-5.92±4.95	-6.81±6.82	-5.68±3.56	-2.37±2.43	-1.22±1.71	-1.84±0.86	-0.74±1.86
Θ(60°)	-3.35±4.84	-3.82±4.21	-3.1±4.29	-4.14±2.85	-2.4±1.42	-1.73±2.05	-2.6±2.81	-2.07±1.04	-0.59±0.99	-0.98±1.37	-2.89±2.21	-1.12±1.67	-1.64±2.44	-3.98±4.43	-4.87±6.7	-6.19±6.35	-3.86±2.74	-2.78±3.66	-3.44±4.84	-6.88±5.67	-4.16±4.03	-2.78±0.53	-0.63±1.68	-1.1±1.84
Θ(67.5°)	-4.42±4.29	-3.49±3.16	-3.75±4.33	-3.92±2.98	-2.1±1.47	-1.69±2.03	-1.72±1.2	-0.69±0.17	-0.43±0.91	-3.2±0.96	-3.07±2.1	-3.2±4.94	-4.22±3.99	-2.37±2.22	-2.96±3.38	-3.96±5.13	-4.67±2.46	-2.08±3.91	-8.1±5.65	-5.23±4.68	-2.64±0.78	-0.65±1.29	-1.63±3.35	
Θ(75°)	-3.03±1.97	-2.12±2.72	-2.48±3.21	-2.69±1.23	-0.88±1.51	-2.06±3.23	-3.36±3.2	-1.91±1.3	-1.12±0.71	0.47±0.19	-3.55±5.54	-3.31±4	-2.78±2.34	-2.91±1.11	-3.9±3.13	-3.39±3.13	-3.62±5.36	-6.12±3.73	-2.24±3.17	-9.85±7.83	-7.2±4.9	-4.53±3.45	-2.47±1.62	-1.66±2.97
Θ(82.5°)	-2.88±1.62	-2.59±3.39	-2.38±2.04	-2.77±3.27	-1.8±2.52	-3.68±4.62	-3.68±3.62	-4.15±4.13	-3.2±2.14	-1.49±1.01	-2.99±3.93	-4.31±2.14	-0.88±0.98	-0.91±1.85	-4.08±4.45	-6.35±8.86	-3.1±5.68	-3.83±2.85	-2.76±3.96	-5.14±6.32	-4.55±1.6	-4.02±1.66	-0.75±1.38	-4.32±3.96
Θ(90°)	-1.43±2.32	-0.96±3.67	-3.32±5.59	-3.38±2.42	-1.89±2.22	-4.12±4.27	-2.69±2.41	-1.82±2.64	-2.67±1.69	-1.81±2.44	-2.36±2.21	-2.87±1.61	-0.54±2.84	-2±1.89	-3.76±4.83	-7.51±4.64	-3.76±7.07	-5.31±3.65	-5.57±5.16	-1.40±1.61	-4.94±4.1	-1.74±2.49	-4.05±3.43	
Θ(97.5°)	-0.58±3.43	-4.61±6.5	-3.15±2.86	-4.44±5.18	-3.2±2.44	-4.47±5.47	-3.13±2.75	-4.68±3.4	-2.39±1.87	-2.76±3.23	-2.07±2.01	-3.75±2.75	-1.32±0.46	-2.36±1.91	-2.04±3.43	-5.23±7.85	-6.11±5.44	-7.7±6.23	-4.55±3.98	-4.42±4.31	-4.52±3.52	-2.07±1.06	-2.9±4.07	-2.98±1.95
Θ(105°)	-0.58±2.59	-4.85±3.9	-3.87±2.93	-3.65±4.94	-3.23±1.38	-3.04±4.3	-2.07±3.02	-2.62±2.01	-2.27±1.6	-1.17±1.32	-1.97±1.35	-3.03±8.77	-3.71±7.89	-5.9±3.88	-5.52±4.6	-5.31±7.05	-4.36±5.49	-6.08±2.48	-2.9±1.89	-2.85±1.52	-6.06±3.94	-1.62±2.47	-4.05±2.44	-0.74±0.34
Θ(112.5°)	-1.88±1.45	-4.04±2.21	-3.82±3.23	-2.39±2.11	-2.78±2.18	-3.67±2.58	-3.70±2.38	-2.61±4.09	-3.43±3.28	-3.10±2.92	-2.99±4.53	-5.47±6.66	-8.24±7.29	-6.78±2.53	-4.25±0.57	-0.68±3.87	-2.5±0.81	-1.21±2.22	-3.26±5.63	-4.07±5.59	-6.71±6.84	-5.39±4.05	-5.62±0.77	1.77±0.04
Θ(120°)	-4.08±4.43	-4.35±1.87	-1.27±2.4	-2.54±1.62	-2.32±3.06	-1.79±1.47	-1.08±2.14	-2.9±3.19	-3.43±2.66	-2.74±3.78	-5.6±4.64	-3.51±5.72	-7.28±5.31	-4.02±0.79	-2.12±0.7	-3.88±1.68	-4.84±2.49	-1.78±5.63	-6.22±4.69	-4.77±6.82	-9.09±7.02	-4.51±1.99	-0.430±51	-0.54±2.86
Θ(127.5°)	-1.06±2.8	-1.97±1.08	1.06±11	-0.45±0.33	-0.53±1.7	-2.55±2.09	-2.03±2.37	-3.15±2.94	-3.3±3.7	-5.9±5.86	-3.3±2.2	-2.27±2.5	-2.92±3.73	-6.01±3.2	-1.13±1.57	-2.59±7.05	-4.91±2.82	-3.44±8.74	-7.11±4.61	-8.33±5.99	-5.76±4.59	-6.62±3.13	0.050±09	0.16±0.09
Θ(135°)	-3.12±3.23	-1.78±1.69	-0.37±0.08	-0.32±0.87	-0.98±1.5	-1.55±2.64	-2.74±3.15	-3.25±0.38	-3.14±3.09	-1.78±1.46	-1.76±1.14	-0.6±2.54	-3.44±5.24	-7.76±7.3	-5.55±7.27	-4.42±3.65	-3.97±3.23	-7.19±1.92	-3.89±5.02	-2.57±6.61	-9.26±2.95	-2.95±1.57	-2.48±2.46	
Θ(142.5°)	-3.39±4.26	-3.93±3.01	-2.3±1.47	-2.89±3.28	-3.39±1.5	-0.6±0.88	-1.7±1.64	-1.21±1.31	-2.31±2.38	-2.89±2.37	-2.44±3.7	-5±5.12	-4.44±5.12	-5.15±4.08	-3.7±3.45	-2.34±4.12	-7.37±9.44	-10.36±8.65	-7.28±4.67	-2.95±4.18	-5.72±5.6	-5.34±3.93	-2.95±3.2	-4.28±4.9
Θ(150°)	-4.18±3.83	-3.71±3.89	-4.11±3.47	-3.21±4.12	-4.13±4.48	-4.73±5.1	-4.27±3.29	-2.44±1.39	-0.74±0.65	-0.7±1.05	-1.89±2.64	-3.7±4.86	-3.85±2.45	-1.48±1.71	-2.33±2.23	-2.93±2.53	-2.19±3.47	-5.53±8.38	-12.15±9.47	-11.11±0.8	-4.52±4.59	-3.57±3.61	-4.55±7.06	-1.76±6.35
Θ(157.5°)	-3.71±4.43	-5.26±5.04	-3.76±4.46	-4.81±5.51	-6.25±6.15	-5.98±5.59	-5.17±4.4	-3.48±2.75	-2.35±2.19	-2.22±3.35	-3.39±4.45	-4.87±4.6	-2.62±1.12	-1.1±2.15	-2.94±2.56	-2.22±6.55	-5.06±8.35	-9.39±10.89	-12.15±12.71	-9.22±3.78	-5.75±5.24	-3.86±4.28	-4.02±3.21	
Θ(165°)	-6.39±6.05	-5.63±5.25	-4.98±4.24	-3.85±3.48	-3.02±2.37	-1.92±1.58	-1.31±1.04	-0.78±0.79	-0.31±0.38	-0.32±0.67	-0.94±1.54	-2.44±3.42	-3.9±3.47	-2.99±3.4	-4.55±5.74	-7.18±0.94	-11.11±9.42	-7.3±6.48	-6.21±6.06	-6.88±8.33	-8.67±8.5	-7.54±7.68	-7.88±7.28	-7.53±7.57
Θ(172.5°)	-8.92±8.43	-8.17±7.97	-7.34±5.74	-4.17±3.21	-2.69±2.65	-2.83±2.73	-2.25±1.99	-1.78±1.81	-2.24±2.82	-3.72±4.73	-5.83±7.74	-8.86±9.13	-7.47±5.84	-5.57±6.19	-7.21±8.01	-8.07±7.54	-6.3±5.27	-4.88±9.49	-5.2±5.49	-6.45±6.93	-7.12±7.77	-8.2±8.83	-9.49±10.7	-8.91±8.98
Θ(180°)	-11.69±10.22	-8.62±7.91	-7.14±6.31	-5.44±4.68	-3.74±3.22	-2.77±2.76	-2.54±3.27	-2.22±2.23	-2.4±2.52	-2.81±3.43	-4.38±4.59	-6.29±6.88	-7.01±6.73	-6.71±6.62	-6.45±6.47	-6.57±6.61	-6.69±6.42	-5.93±5.91	-6.4±6.56	-6.45±6.53	-7.05±7.77	-8.08±8.84	-8.89±9.49	-10.36±10.54
Freq(Hz)	6.175GPol.	Theta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	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°)	-1.82±1.78	-1.59±1.51	-1.56±1.51	-1.52±1.78	-2.26±2.87	-3.6±4.41	-5.05±4.65	-3.66±3.16	-2.65±2.37	-2.2±2.11	-2.20±1.96	-1.91±1.87	-1.95±1.99	-1.73±1.76	-1.74±1.93	-2.62±3.19	-3.74±4	-4.23±2.49	-4.33±3.87	-4.39±3.22	-3.31±3.23	-3.28±2.8	-2.38±2.38	-2.27±1.98
Θ(7.5°)	-2.33±2.46	-2.51±2.78	-2.94±2.92	-2.93±3.36	-4.09±4.33	-4.43±5.52	-5.34±4.49	-3.88±3.76	-3.59±3.41	-3.16±2.85	-2.74±2.48	-2.11±1.46	-1.24±0.81	-0.66±0.56	-0.73±1.09	-1.56±1.84	-2.14±2.71	-3.71±6.8	-4.57±1.46	-3.3±2.5	-1.95±1.8	-1.93±2.03	-2.35±2.7	-2.35±2.23
Θ(15°)	-3.34±3.44	-3.76±3.81	-3.41±2.67	-2.22±2.42	-2.66±3.1	-3.32±4.33	-3.4±3.38	-3.63±3.49	-2.92±2.46	-2.18±2.1	-2.02±2.05	-2.06±1.53	-0.94±0.48	-0.23±0.08	-0.23±0.79	-1.78±3.01	-3.59±1.43	-4.97±5.66	-6.16±6.68	-6.29±5.97	-5.33±4.31	-3.8±3.37	-3.4±3.61	-3.39±3.39
Θ(22.5°)	-3.34±4.11	-4.98±5.03	-3.96±3.29	-2.58±2	-1.77±1.09	-0.45±0.01	-0.19±0.04	-0.23±0.64	-0.96±1.3	-1.73±1.82	-1.86±2.28	-1.72±1.32	-0.17±0.18	-0.11±0.04	-0.94±2.21	-3±4.48	-3.84±4.91	-5.62±8.33	-6.98±9.03	-9.04±8.78	-8.33±7.01	-6.16±5.12	-5.36±5.06	-4.12±3.33
Θ(30°)	-3.17±2.75	-3.58±3.73	-3.18±2.43	-1.34±0.53	-0.170.3	0.580±93	1.071±18	0.920±33	-0.48±1.28	-1.59±1.47	-1.64±1.68	-1.9±1.88	-1.57±1.06	-0.75±0.66	-1.22±2.35	-2.5±2.41	-3.64±5.28	-5.59±5.49	-6.37±6.37	-6.15±5.4	-5.12±5.67	-5.69±6.8	-6.58±4.54	-3.59±3.87
Θ(37.5°)	-3.66±3.01	-1.93±1.52	-1.07±0.54	-0.21±0.2	0.350±88	1.151±56	1.891±83	1.480±69	-0.28±1.29	-1.81±1.1	-0.75±0.85	-1.2±1.56	-1.41±1.06	-0.91±0.98	-1.26±2.07	-2.9±4.45	-5.09±2.47	-4.06±1.43	-4.32±5.23	-5.67±5.44	-4.77±1.99	-6.47±5.24	-4.63±3.07	-3.33±4.02
Θ(45°)	-2.37±1.82	-1.28±1.39	-0.480±11	0.430±52	1.080±11	1.181±25	1.281±13	0.4±0.48	-1.25±1.52	-1.64±1.19	-0.28±0.05	0.19±0.88	-1.9±1.6	-0.87±0.91	-1.98±2.64	-3.21±4.48	-4.75±5.84	-5.86±5.41	-5.63±6.94	-5.67±5.88	-4.82±3.16	-3.73±2.86	-3.72±1.26	-5.65±1.15
Θ(52.5°)	-0.13±2.17	-2.24±1.22	0.391±86	2.762±79	1.96																			



Radiated Composite Gain of 6GHz UNII 5~6

Appendix B

Θ(22.5°)	-12.94/-15.89	-16.04/-16.05	-16.98/-17.44	-16.03/-12.23	-9.33/-7.66	-6.89/-6.71	-6.66/-6.74	-6.72/-7.25	-8.11/-9.4	-11.85/-14.32	-13.34/-13.17	-8.43/-7.73	-8.38/-11.38	-19.81/-18.93	-11.41/-8.22	-7.17/-7.44	-8.14/-9.68	-9.02/-8.38	-7.77/-7.85	-8.49/-9.25	-9.27/-7.53	-6.72/-6.57	-6.67/-12	-8.77/-10.84
Θ(30°)	-13.19/-14.47	-13.56/-14.08	-17.02/-15.45	-10.43/-7.76	-6.82/-6.72	-6.94/-6.94	-7.72/-8.36	-8.72/-8.79	-8.52/-8.88	-9.44/-10.29	-12.98/-13.17	-9.87/-7.51	-7.25/-10.62	-18.55/-15.23	-8.9/-7.3	-7.58/-8.84	-8.47/-1.07	-6.54/-7.09	-8.13/-9.28	-10.42/-10.22	-9.1/-9.88	-11.28/-10.86	-9.92/-9.23	-9.38/-11.1
Θ(35°)	-12.31/-11.87	-10.38/-11.26	-16.46/-11.27	-6.98/-7.9	-5.21/-5.28	-5.12/-5.05	-5.25/-5.4	-5.71/-5.76	-5.49/-5.81	-7.4/-8.7	-11.32/-11.57	-10.13/-10.05	-16.68/-19.05	-13.8/-10.66	-9.66/-11.5	-14.34/-11	-9.74/-10.07	-12.77/-10.65	-10.08/-8.75	-7.77/-7.42	-8.74/-11.06	-12.77/-17.38	-12.6/-9.88	-10.64/-9.11
Θ(45°)	-13.53/-13.99	-12.8/-13.15	-15.32/-11.47	-8.75/-7.26	-6.98/-6.94	-6.43/-6.21	-6.04/-6.31	-6.35/-6.48	-6.19/-5.8	-6.71/-7.59	-8.21/-10.68	-15.54/-18.9	-17.28/-15.88	-18.01/-13.99	-12.3/-9.32	-8.18/-8.99	-8.82/-9.2	-8.81/-9.31	-11.45/-10.66	-7.33/-7.69	-10.03/-9.13	-11.65/-15.77	-18.05/-12.4	-11.07/-13.57
Θ(52.5°)	-19.21/-18.02	-16.37/-13.53	-16.17/-11.47	-10.38/-9.04	-8.34/-7.45	-7.24/-7.77	-7.99/-7.71	-8/-9.42	-8.32/-7.24	-7.73/-8.26	-8.88/-10.66	-13.86/-18.07	-17.57/-14.79	-13.31/-15.75	-12.25/-9.5	-10.57/-8.04	-8.81/-10.77	-19.22/-17.76	-18.12/-18	-13.79/-11.08	-7.96/-9.26	-17.83/-18.57	-10.88/-12.45	-10.98/-12.45
Θ(60°)	-17.96/-16.8	-10.53/-10	-10.29/-6.63	-8.08/-6.58	-6/-5.53	-5.76/-6.16	-7.08/-7.97	-9.07/-9.75	-9.82/-11.15	-13.22/-12.64	-11.46/-9.13	-9.44/-16.92	-10.81/-14.17	-13.62/-18.61	-13.47/-11.32	-9.84/-9.43	-7.66/-7.53	-8.74/-9.85	-8.49/-9.17	-12.57/-16.07	-14.98/-15.54	-10.88/-12.06	-15.88/-17.82	-13.98/-14.93
Θ(67.5°)	-16.48/-19.05	-16.15/-16.16	-12.54/-10.49	-10.27/-8.41	-6.92/-6.02	-4.73/-4.11	-3.84/-4.24	-5.03/-5.81	-5.73/-5.43	-7.5/-12.51	-13.62/-7.9	-9.94/-19.38	-13.7/-12.34	-15.25/-16.36	-7.88/-7.78	-8.97/-8.5	-7.2/-9.52	-11.92/-12.61	-10.29/-13.46	-16.48/-12.42	-13.32/-15.14	-19.67/-12.24	-14.51/-17.5	-14.59/-14.33
Θ(75°)	-15.38/-18.61	-14.55/-11.25	-9.75/-9.19	-9.39/-3.67	-4.63/-4.49	-3.68/-4.18	-3.82/-3.48	-3.3/-3.55	-4.93/-5.95	-3.92/-5.31	-12.41/-13.43	-11/-11.8	-12.67/-12.12	-10.44/-14.5	-10.85/-8.36	-8.41/-7.88	-6.64/-9.84	-13.43/-10.14	-8.67/-11.02	-16.8/-14.65	-14.13/-10.85	-15.47/-17.81	-16.21/-18.58	-12.62/-11.45
Θ(82.5°)	-15.76/-17.62	-18.6/-16.85	-10.54/-8.55	-11.11/-6.39	-4.7/-5.48	-7.02/-6.02	-4.31/-4.48	-5.59/-5.08	5/-5.7	-6.39/-10.52	-14.76/-11.71	-16.67/-13.25	-9.85/-17.28	-14.13/-10.79	-11.7/-11.97	-14.88/-7.77	-7.72/-13.67	-8.11/-5.15	-5.3/-5.72	-8.65/-14.03	-14.24/-10.16	-10.51/-8.33	-15.18/-17.77	-11.29/-13.02
Θ(90°)	-9.92/-15.44	-10.93/-18.14	-10.54/-8.15	-12.39/-7.3	-6.22/-6.26	-8.6/-6.66	-4.86/-5.4	-7.06/-6.74	-7.18/-5.71	-7.26/-8.71	-9.61/-14.22	-18.98/-12.15	-8.92/-14.55	-14.29/-9	-14.46/-14.71	-18.18/-9.22	-6.52/-10.16	-9.5/-6.35	-5.25/-5.53	-7.17/-11.39	-17.93/-11.42	-8.86/-8.01	-17.44/-16.96	-9.6/-8.18
Θ(97.5°)	-13.72/-16.35	-11.23/-18.23	-13.84/-8.85	-11.38/-10.19	-7.18/-7.14	-11.46/-11.01	-8.14/-7.66	-13.35/-9.38	-9.87/-9.12	-11/-15.34	-18.36/-18.03	-19.3/-13.42	-11.94/-18.24	-18.62/-17.32	-14.15/-11.78	-14.34/-8.64	-6.02/-7.58	-12.11/-8.58	-9.47/-7.11	-13.68/-13.46	-18.45/-11.18	-7.64/-6.61	-13.08/-18.73	-15.56/-13.66
Θ(105°)	-10.61/-11.85	-9.83/-9.97	-16.47/-23	-6.75/-8.19	-5.96/-4.79	-5.08/-6.25	-6.49/-8.3	-7.3/-8.47	-7.21/-8.2	-8.18/-7.57	-11.12/-14.75	-11.44/-12.1	-13.5/-19.34	-18.65/-17.2	-17.44/-12.16	-11.88/-13.41	-6.87/-6.32	-13.77/-11.69	-9.27/-9.41	-11.48/-18.4	-13.64/-12.43	-7.93/-5.17	-8.29/-12.37	-6.76/-9.17
Θ(112.5°)	-12.11/-12.84	-8.77/-7.85	-15.66/-8.97	-5.59/-5.7	-5.75/-5.15	-4.33/-4.51	-4.98/-6	-6/-7.71	-6.77/-6.66	-7.5/-8.64	-11.23/-16.76	-14.13/-17.54	-18.15/-17.47	-16.01/-15.35	-14.73/-6.94	-6.12/-11.43	-4.25/-2.07	-4.74/-9.49	-7.32/-18.03	-9.74/-9.54	-9.94/-10.43	-5.77/-5.28	-11.55/-9.13	-6.52/-13.62
Θ(120°)	-10.53/-8.68	-12.08/-14	-11.59/-15.99	-7.65/-6.19	-5.77/-3.33	-3.48/-2.95	-1.96/-2.09	-3.09/-3.27	-6.12/-6.43	-6.89/-9.97	-15.3/-13.45	-11.5/-18.05	-17.99/-17.77	-14.57/-13.3	-13.11/-8.72	-10.31/-18.74	-8.69/-4.43	-5.41/-10.91	-17.48/-13.33	-18.28/-10.38	-15.81/-6.48	-6.04/-7.27	-8.57/-8.01	-7.2/-10.13
Θ(127.5°)	-7/-13.12	-11.25/-6.44	-5.8/-7.31	-8.03/-4.3	-3.62/-3.79	-4.22/-4.07	-3.63/-2.53	-2.77/-3.87	-4.69/-5.97	-10.53/-12.78	-11.48/-12.15	-16.42/-18.73	-12.14/-12.94	-18.61/-12.9	-8.13/-5.82	-7.57/-9.93	-10.05/-7.72	-9.87/-18.72	-19.19/-12.3	-16.87/-9.42	-18.48/-7.19	-12.57/-8.5	-6.67/-9.15	-6.83/-6.45
Θ(135°)	-8.67/-8.49	-8.41/-8.84	-8.61/-7.37	-6.45/-6.61	-4.94/-4.73	-4.19/-4.18	-4.39/-5.2	-5.48/-6.42	-7.32/-8.82	-9.1/-12.85	-15.29/-9.18	-9.08/-15.76	-17.03/-10.52	-18.51/-14.67	-11.51/-9.07	-11.24/-8.94	-6.51/-6.53	-13.97/-16.11	-18.8/-15.13	-11.77/-15.27	-13.05/-12.55	-14.75/-17.98	-10.28/-11.11	-9.37/-8.81
Θ(142.5°)	-10.04/-12.34	-11.33/-8.93	-8.46/-8.72	-7.31/-6.22	-5.71/-4.31	-3.95/-4.46	-5.28/-6.28	-7.52/-10.33	-14.59/-13.4	-17.29/-18.08	-18.88/-16.22	-17.87/-18.39	-18.84/-17.42	-18.45/-11.2	-8.88/-11.9	-12.88/-18.22	-15.37/-15.83	-11.89/-11.45	-12.12/-12.15	-13.22/-12.34	-13.89/-13.81	-12.47/-12.33	-11.45/-9.88	-10.71/-10.45
Θ(150°)	-8.03/-8.12	-7.37/-8.17	-8.35/-8.58	-8.17/-7.06	-6.02/-6.15	-6.96/-7.75	-8.54/-9.98	-9.43/-10.62	-5.58/-5.76	-5.69/-6.01	-6.59/-10.16	-18.77/-18.74	-17.73/-15.31	-15.73/-12.86	-16.82/-19.6	-18.27/-11.23	-8.15/-8.26	-8.23/-11.87	-17.88/-17.33	-12.12/-12.15	-14.31/-15.33	-18.28/-6.26	-7.67/-11.26	-10.29/-10.89
Θ(157.5°)	-8.67/-10.07	-12.84/-11.91	-8.35/-7.44	-8.01/-9.57	-10.4/-8.7	-7.79/-6.81	-6.07/-4.8	-3.53/-2.97	-3.45/-4.09	-3.43/-2.94	-5.06/-9.65	-12.84/-14.77	-12.37/-10.48	-13.22/-17.95	-18.52/-12.69	-9.03/-7.39	-8.24/-10	-10.96/-14.61	-19.16/-18.27	-18.19/-18.58	-18.42/-18.06	-18.16/-17.54	-14.49/-16.67	-13.51/-9.28
Θ(165°)	-13.01/-10.68	-9.76/-7.79	-5.78/-4.25	-3.88/-3.47	-2.84/-2.02	-1.32/-1.01	-0.96/-0.91	-0.92/-1.1	0.051/-6.8	0.51/-1.17	-2.58/-4.51	-7.15/-11.14	-17.1/-18.76	-16.48/-16.23	-17.39/-15.66	-15.46/-17.76	-18.77/-13.54	-11.8/-18.68	-11.58/-10.79	-10.42/-11	-12.23/-11.08	-10.52/-12.62	-18.19/-17.67	-17.57/-16.25
Θ(172.5°)	-16.16/-12.8	-10.2/-8.3	-6.62/-5.34	-3.92/-2.93	-2.18/-1.9	-1.6/-1.52	-1.63/-1.69	-1.57/-1.52	-1.9/-2.81	-4.15/-5.49	-6.99/-9.56	-13.33/-16.59	-14.98/-13.02	-13.05/-15.67	-19.26/-18.48	-10.98/-12.45	-10.71/-10.1	-10.44/-11.43	-11.87/-10.98	-9.68/-9.37	-9.45/-9.69	-9.98/-11.42	-14.18/-18.05	-19.02/-18.71
Θ(180°)	-15.24/-12.61	-10.37/-8.73	-7.27/-6.17	-5.11/-4.03	-3.24/-2.89	-2.81/-2.77	-2.66/-2.54	-2.46/-2.67	-3.01/-3.48	-4.29/-5.65	-7.59/-9.91	-12.48/-14.5	-16.11/-16.17	-15.41/-14.12	-13.08/-12.95	-12.96/-11.44	-9.77/-8.27	-7.52/-7.03	-6.92/-7.01	-7.11/-7.98	-9.02/-10.43	-11.28/-12	-13.04/-16.38	-17.01/-15.45
Freq(Hz)	6.175GPol.	ThetaAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)
Θ(0°)	-9.98/-8.77	-7.79/-7.82	-8.51/-8.86	-9.51/-9.85	-10.24/-11.16	-13.05/-15.61	-17.16/-18.63	-18.13/-18.2	-14.83/-12.15	-9.83/-8.84	-8.22/-7.62	-7.06/-6.53	-6.35/-6.32	-6.77/-7.79	-8.83/-9.78	-11.07/-12.18	-13.34/-14.94	-16.12/-17.6	-19.15/-18.28	-18.88/-18.92	-18.5/-18.19	-19.7/-15.39	-13.12/-12.45	-11.57/-10.72
Θ(7.5°)	-7.35/-7.63	-8.15/-9.36	-10.91/-11.87	-13.04/-14.42	-14.99/-15.6	-16.23/-19.1	-18.14/-17.83	-18.09/-18.86	-18.86/-18.33	-17.05/-15.86	-14.84/-12.52	-10.09/-8.25	-6.99/-6.49	-6.5/-6.54	-7.16/-8.19	-9.71/-10.57	-13.71/-12.37	-14.76/-10.95	-17.51/-18.21	-17.41/-13.35	-10.88/-9.63	-9.17/-8.96	-8.25/-7.83	-7.27/-7.35
Θ(15°)	-7.16/-7.84	-8.88/-9.4	-8.95/-7.87	-6.93/-7.18	-8.01/-8.71	-9.31/-9.6	-10.42/-12.12	-15.1/-16.54	-19.92/-17.15	-16.29/-15.24	-15.96/-12.12	-9.37/-8.99	-7.59/-7.88	-9/-10.91	-13.93/-18.45	-18.2/-18.02	-18.98/-16.24	-13.73/-12.51	-11.33/-10.61	-9.98/-9.89	-8.33/-7.59	-7.04/-6.48	-6.31/-6.83	
Θ(22.5°)	-6.21/-6.64	-7.03/-6.48	-4.65/-3.67	-3.8/-3.95	-4.64/-5.4	-6.74/-7.62	-8.47/-8.97	-11.62/-11.89	-11.89/-13.76	-17.47/-16.44	-14.94/-15.86	-15.62/-14.33	-12.41/-10.45	-9.35/-10.19	-12.76/-17.29	-18.76/-18.77	-17.41/-15.77	-14.63/-14.98	-14.97/-14.1	-13.72/-13.82	-12.33/-9.17	-7.69/-7.68	-7.73/-6.74	-6.1/-6.59
Θ(30°)	-5.65/-3.91	-3.65/-3.35	-3.29/-3.79	-4.05/-4.08	-4.89/-6.41	-7.38/-8.39	-8.46/-8.14	-8.92/-10.54	-12.61/-13.82	-16.33/-17.61	-18.79/-18.57	-17.95/-19.1	-18.8/-12.54	-10.66/-10.82	-13.57/-19.17	-18.97/-17.76	-18.72/-16.95	-13.39/-11.95	-11.15/-10.19	-9.05/-7.6	-6.27/-6.07	-6.22/-6.07	-5.32/-3.96	-4.28/-6.73
Θ(37.5°)	-5/-4.02	-1.89/-1.92	-2.96/-3.29	-3.25/-4.61	-5.63/-6.47	-7.48/-8.61	-8.04/-8.45	-9.43/-10.93	-12.21/-14.54	-18.51/-18.24	-17.23/-15.26	-14.48/-14.91	-13.99/-12.66	-12.82/-14.27	-13.33/-15.72	-16.88/-18.46	-18.34/-16.47	-13.81/-11.12	-8.97/-8.09	-7/-6.28	-5.91/-5.95	-5.63/-5.12	-4.38/-3.75	-3.85/-5.48
Θ(45°)	-7.49/-4.77	-1.75/-2.22	-3.05/-4.16	-4.49/-5.47	-6.04/-7.37	-8.59/-9.3	-9.97/-9.85	-11.75/-15.33	-18.1/-17.92	-18.92/-17.52	-16.41/-15.44	-16.4/-16.87	-17.12/-16.35	-18.18/-16.9	-14.76/-18.77	-17.64/-19.03	-13.76/-11.48	-9.6/-9.5	-11.11/-13.5	-11.56/-10.21	-7.81/-5.6	-5.11/-4.41	-4.32/-2.54	-1.92/-4
Θ(52.5°)	-3.4/-5.05	-2.8/-2.74	-1.8/-0.87	-0.69/-1.39	-2.75/-4.36	-5.87/-7.85	-8.25/-10.32	-10.56/-11.66	-14.87/-18.02	-18.42/-16.69	-16.95/-17.59	-16.02/-13.94	-14.55/-18.31	-14.45/-12.35	-16.11/-13.59	-10.16/-8.47	-8.15/-9.95	-11.28/-12.64	-15.71/-13.68	-12.84/-15.87	-15.77/-16.08	-10.59/-6.09	-4.39/-3.69	-1.43/-1.72
Θ(60°)	-2.92/-4.88	-4.91/-5.22	-3.21/-1.65	-1.18/-1.23	-3.85/-4.63	-4.92/-5.77	-6.63/-8.13	-9.88/-10.22	-9.86/-9.96	-10.9/-13.11	-15.25/-15.81	-13.64/-17.94	-18.9/-14.68	-10.39/-10.97	-12.56/-12.25	-9.35/-9.49	-9.46/-6.24	-5.93/-6.04	-8.01/-8.58	-9.62/-13.98	-13.53/-9.26	-6.88/-5.67	-2.22/-1.84	
Θ(67.5°)	-3.91/-3	-4.54/-5.93	-4.63/-3.52	-2.78/-2.78	-4.52/-7.44	-7.31/-6.26	-5.55/-5.98	-7.58/-8.32	-8.73/-9.08	-13.74/-17.96	-10.41/-7.6	-12.17/-15.7	-14.86/-10.57											



Radiated Composite Gain of 6GHz UNII 5~6

Appendix B

Θ(75°)	-5.2/-2.73	-2.25/-3.52	-7.1/-7.74	-6.56/-8.07	-12.55/-18.02	-16.66/-12.93	-9.27/-7.99	-7.81/-8.63	-9.1/-8.83	-7.73/-6.72	-9.69/-15.93	-17.79/-14.03	-12.29/-11.25	-10.22/-14.69	-11.31/-7.49	-9.83/-9.34	-9.79/-11.09	-18.77/-19.11	-18.2/-17.87	-18.64/-17.89	-19/-10.07	-6.69/-5.31	-3.71/-4.44	-5.29/-7.83
Θ(82.5°)	-3.08/-1.23	-2.44/-4.2	-6.09/-6.71	-6.53/-10.87	-14.59/-16.92	-18.77/-18.66	-12.73/-10.47	-12.25/-18.26	-18.5/-16.33	-11.15/-8.27	-10.61/-11.07	-11.71/-9.03	-9.79/-10.62	-8.89/-14	-18.92/-11.89	-13.76/-12.13	-10.75/-16.15	-17.96/-17.72	-16.73/-17.94	-18.37/-14.05	-9.76/-7.81	-5.87/-4.57	-3.01/-4.55	-9.26/-5.76
Θ(90°)	-2.49/-2.31	-3.46/-7.92	-6.53/-4.24	-7.37/-9.42	-1.19/-16.04	-17.74/-14.44	-9.93/-10.02	-10.7/-11.66	-11.11/-9.22	-10.95/-9.37	-6.07/-8.14	-8.03/-7.14	-6.49/-8.13	-6.07/-8.17	-12.01/-10.83	-10.95/-15.87	-14.39/-19.08	-18.24/-14.55	-12.36/-9.41	-4.73/-9.92	-2.97/-4	-4.21/-5.57	-17.91/-6.99	
Θ(97.5°)	-0.35/-3.41	-5.7/-8.98	-3.88/-3.59	-5.29/-14.49	-12.33/-11.99	-17.18/-16.47	-9.47/-7.68	-7.94/-8.01	-7.62/-7.67	-9.63/-10.4	-8.3/-5.77	-7.17/-6.42	-5.28/-9.57	-7.88/-6.4	-8.68/-13.55	-14.92/-17.25	-17.93/-16.83	-14.96/-10.44	-10.03/-11.91	-9.35/-5.91	-4.76/-4.24	-4.92/-6.56	-7.77/-7.08	-4.13/-3.33
Θ(105°)	-1.38/-4.8	-8.77/-6.39	-4.23/-6.25	-8.91/-16.59	-10.25/-10.47	-17.09/-18.1	-12.27/-9.19	-6.97/-5.5	-6.46/-7.91	-10.14/-13.24	-10.55/-9.12	-11.69/-12.13	-9.34/-6.88	-15.13/-12.88	-15.21/-17.51	-18.21/-14.61	-14.48/-12.51	-10.96/-12.06	-7.98/-9.53	-5.36/-6.35	-7.08/-9.52	-5.21/-3.4	-1.21/-1.2	
Θ(112.5°)	-2.63/-6.31	-7.57/-3.65	-3.22/-6.85	-11.59/-5.8	-9.38/-8.68	-15.41/-16.67	-12.58/-9.98	-8.92/-9.71	-11.08/-12.95	-19/-17.68	-13.16/-16.39	-17.18/-18.69	-18.45/-15.53	-16.75/-19.47	-12.77/-16.11	-14.12/-17.24	-17.89/-17.97	-18.29/-12.5	-13.81/-13.1	-9.01/-8.72	-11.29/-12.55	-17.79/-13.87	-7.04/-1.65	-0.87/-1.52
Θ(120°)	-7.84/-8.53	-6.35/-2.56	-3.73/-6.82	-18.03/-12.15	-10.81/-10.29	-11.87/-18.5	-17.66/-16.38	-14.67/-15.51	-13.2/-11.63	-14.02/-12.35	-10.49/-10.34	-8.69/-8.1	-13.51/-18.99	-17.25/-11.6	-15.1/-12.42	-18.71/-19.08	-18.76/-18.91	-18.7/-12.49	-9.46/-9.37	-8.75/-10.32	-9.46/-11.53	-9.39/-3.74	-0.94/-0.74	-2.92/-3.94
Θ(127.5°)	-2.48/-1.84	-1.27/-1.33	-1.12/-5.33	-6.98/-11.85	-11.45/-15.92	-18.97/-18.92	-17.84/-18.69	-16.59/-14.01	-17.68/-18.66	-17.24/-10.52	-6.16/-6.03	-5.99/-8.75	-9.42/-13.14	-17.12/-12.49	-6.81/-18.12	-10.55/-15.13	-18.27/-17.95	-17.89/-16.19	-13.65/-15.69	-11.09/-14.4	-9.01/-12.91	-10.92/-4.89	-0.44/-2.08	-4.66/-2.91
Θ(135°)	-4.17/-3.44	-1.47/-3.07	-2.99/-5.34	-6.56/-6.53	-9.82/-10.63	-10.02/-12.7	-16.03/-17.68	-17.27/-12.07	-12.89/-14.68	-12.65/-11.39	-9.65/-7.22	-7.03/-14	-16.11/-14.48	-17.85/-6.66	-17.18/-10.63	-15.52/-18.17	-17.97/-15.73	-12.27/-15.9	-9.83/-7.76	-9.53/-9.84	-14.35/-6.75	-2.93/-2.78	-7.84/-5.28	
Θ(142.5°)	-4.76/-5.98	-4.93/-4.81	-6.13/-6.45	-12.44/-14.22	-18.5/-13.82	-10.39/-10.46	-14.43/-18.41	-18.54/-18	-17.05/-13.99	-14.46/-9.75	-8.85/-11.43	-13.76/-10.4	-10.44/-17.98	-13.29/-7.87	-8.84/-12.02	-6.8/-9.12	-19.03/-18.42	-16.16/-17.04	-17.7/-17.36	-12.95/-10.1	-10.5/-6.52	-6.17/-5.26	-4.8/-6.4	-9.78/-9.41
Θ(150°)	-4.81/-3.57	-4.07/-5.76	-7.58/-7.7	-8.62/-15.84	-18.28/-17.72	-18.41/-18.21	-18.02/-18.13	-19.03/-14.11	-18.18/-16.08	-12.8/-7.92	-9.43/-10.67	-12.34/-16.67	-13.36/-9.55	-7.33/-8.51	-11.1/-9.31	-13.41/-18.27	-11.46/-14.32	-18.01/-19	-17.58/-17.45	-15.85/-16.95	-10.24/-8.03	-6.03/-8.14	-13.71/-12.61	-7.1/-5.44
Θ(157.5°)	-4.67/-4.15	-4.05/-4.21	-4.47/-7.71	-10.59/-13.11	-15.38/-18.01	-16.27/-18.1	-18.69/-18.18	-14.93/-14.14	-12.19/-12.27	-15.89/-18.1	-18.62/-12.32	-9.83/-7.68	-7.51/-12.02	-18.8/-18.21	-13.86/-11.49	-14.83/-19.34	-19.23/-18.1	-18.9/-19.11	-17.6/-16.36	-15.31/-16.3	-15.56/-18.63	-19.93/-6.86	-5/-3.9	
Θ(165°)	-7.44/-7.29	-7.34/-7.88	-11.21/-14.18	-14.28/-15.34	-17.64/-18.5	-18.28/-17.97	-17.95/-19.01	-19.14/-19.34	-18.42/-17.17	-15.03/-10.95	-9.51/-8.4	-7.68/-7.43	-6.89/-6.32	-6.21/-7.31	-9.87/-13.21	-14.83/-15.47	-16.35/-16.27	-15.46/-17.3	-18.62/-17.77	-18.84/-18.57	-18.6/-19.38	-18.63/-18.4	-14.2/-11.15	-11.27/-10.52
Θ(172.5°)	-10.07/-10.82	-12.95/-15.89	-18.17/-17.42	-17.73/-18.91	-18.34/-17.4	-18.93/-13.94	-18.59/-18.35	-18.49/-17.96	-18.53/-17.27	-18.62/-18.13	-18.39/-19.01	-17.51/-18.03	-16.9/-13.77	-12.4/-12.28	-13.12/-14.19	-14.43/-14.09	-12.9/-11.97	-12.18/-13.29	-17.97/-16.6	-15.97/-15.55	-15.09/-14.68	-14.07/-14.38	-11.94/-11.23	
Θ(180°)	-18.21/-17.6	-13.59/-14.01	-14.48/-15.48	-15.9/-17.59	-17.84/-18.72	-17.21/-18.68	-18.12/-17.65	-17.55/-16.62	-15.1/-13.02	-11.64/-10.54	-13.88/-10.67	-11.39/-12.36	-12.79/-12.69	-12.74/-13.36	-14.34/-16.07	-18.29/-18.11	-19/-19.03	-17.95/-18.06	-18.47/-17.67	-16.1/-16.18	-16.88/-17.03	-16.58/-17.8	-15.87/-13.77	-14.56/-14.77
Freq(Hz)	6.175GPol.	ThetaAnt.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°)	-17.99/-18.58	-15.56/-12.7	-10.82/-37.5	-7.92/-7.44	-7.14/-6.75	-6.71/-6.96	-7.91/-8.05	-7.67/-7.49	-7.88/-8.75	-10.38/-11.86	-14.06/-16.43	-18.45/-18.76	-17.88/-17.77	-13.49/-11.57	-10.19/-8.7	-6.25/-7.9	-6.37/-5.91	-5.64/-5.39	-5.45/-5.89	-6.9/-7.43	-8.42/-9.47	-10.84/-12.41	-14.52/-17.13	-19.11/-19.09
Θ(7.5°)	-18.7/-16.77	-14.07/-11.4	-10.18/-8.5	-7.23/-6.67	-6.4/-5.89	-5.68/-6.09	-6.67/-6.47	-6.41/-6.68	-7.64/-8.99	-11.07/-12.29	-14.13/-16.31	-18.83/-17.47	-18.51/-14.97	-12.62/-11.17	-9.81/-8.94	-8.37/-7.66	-7.43/-7.5	-7.48/-7.43	-7.38/-7.87	-8.12/-8.62	-9.14/-10.1	-11.34/-12.89	-16.01/-19.2	-18.89/-18.87
Θ(15°)	-13.3/-12.02	-10.54/-9.24	-8.36/-7.26	-6.83/-6.57	-6.15/-6.44	-6.48/-6.87	-6.87/-8.69	-7.5/-8.13	-8.87/-8.98	-11.85/-15.07	-18.62/-18.31	-19.05/-16.86	-14.25/-11.89	-9.82/-7.97	-6.82/-6.28	-6.22/-6.53	-6.89/-7.8	-9.15/-10.59	-13.03/-18.77	-17.38/-16.38	-18.87/-18.32	-18.97/-18.67	-17.91/-17.79	-15.75/-13.51
Θ(22.5°)	-7.6/-7.47	-8.11/-8.93	-8.41/-7.6	-6.4/-5	-6.42/-4.15	-3.13/-2.31	-1.88/-2.03	-2.44/-3.82	-5.49/-6.63	-7.47/-8.83	-11.53/-18.04	-17.96/-14.14	-13.78/-10.53	-7.96/-5.93	-4.84/-4.68	-5.04/-5.78	-6.98/-8.75	-11.14/-13.3	-14.7/-18.03	-18.83/-17.54	-18.93/-17.57	-17.96/-14.45	-10.36/-7.75	
Θ(30°)	-5.99/-6.37	-8.51/-10.48	-9.63/-6.04	-3.61/-2.25	-1.41/-0.64	-0.260/0.1	-0.27/-0.67	-1.66/-3.15	-4.58/-5.4	-5.25/-5.55	-7.4/-10.3	-14.92/-18.9	-19.01/-17.36	-12.31/-8.03	-5.93/-5.5	-5.51/-6.62	-9.22/-12.04	-13.54/-13.72	-14.96/-17.47	-18.49/-19.23	-18.98/-18.65	-17.97/-18.94	-17.06/-11.31	-7.93/-6.59
Θ(37.5°)	-7.38/-6.58	-6.89/-7.21	-5.68/-4.01	-2.51/-1.53	-1.12/-0.9	-0.250/0.9	0.28/-0.22	-1.31/-2.55	-4.72/-6.56	-7.27/-7.36	-7.76/-9.23	-12.72/-18.04	-17.85/-18.73	-13.05/-9.89	-8.02/-8.04	-10.01/-13.47	-15.2/-18.71	-18.88/-17.96	-18.54/-17.5	-19.09/-18.83	-16.9/-16.89	-13.94/-10.3	-8.61/-3.1	
Θ(45°)	-7.62/-7.87	-8.48/-7.75	-7.12/-7.36	-1.16/-1.36	-1.62/-1.47	-1.31/-1.55	-2.23/-2.85	-3.86/-5	-7.49/-10.58	-13.21/-1.89	-9.62/-8.66	-9.41/-105	-18.46/-14.91	-16.09/-15.33	-10.01/-11.7	-15.93/-19.47	-14.18/-18.96	-17.78/-17.51	-16.97/-13.45	-12.87/-17.77	-11.53/-12.49	-12.95/-10.6	-9.9/-8.77	-7.27/-7.98
Θ(52.5°)	-8.04/-9.83	-8.95/-6.63	-4.48/-2.76	-1.47/-1.44	-2.79/-4.21	-3.68/-2.35	-1.66/-2.14	-3.31/-4.73	-6.59/-7.69	-8.79/-9.25	-11.41/-10.06	-8.48/-13.07	-18/-10.58	-8.38/-9.76	-12.45/-12.58	-10.37/-11.6	-17.62/-18.22	-18.55/-13.8	-14.35/-14.8	-15.9/-18.78	-17.99/-18.09	-16.61/-12.03	-9.81/-7.86	-6.53/-6.78
Θ(60°)	-10.11/-13.47	-6.51/-4.48	-2.84/-0.8	0.79/-1.58	-2/-4.88	-1.92/-0.82	-0.24/-0.33	-1.25/-2.7	-4.01/-4.44	-4.74/-4.55	-6.49/-8.49	-7.32/-7.62	-11.51/-18.57	-9.54/-9.45	-13.62/-19.25	-11.59/-12.28	-15.59/-14.8	-14.83/-17.9	-14.49/-15.32	-17.73/-18.77	-17.79/-17.72	-10.4/-7.21	-6.01/-6.09	
Θ(67.5°)	-9.31/-10	-5.45/-5.88	-6.15/-3.35	-3.18/-1.05	-6.4/-2.76	-1.15/-0.61	-0.25/-0.39	-0.97/-2.23	-3.19/-3.63	-4.03/-4.34	-4.23/-6.34	-7.73/-8.99	-12.18/-18.99	-11.42/-12.63	-13.41/-10.66	-11.23/-13.75	-18.53/-18.61	-18.84/-18.97	-13.36/-18.13	-17.39/-14.68	-18.36/-12.14	-17.44/-6.91	-7.61/-6.14	-6.07/-5.98
Θ(75°)	-8.6/-7.7	-3.12/-3.5	-8.29/-5.79	-5.4/-7.01	-4.47/-1.33	-0.81/-1.84	-2.13/-2.25	-1.64/-2.04	-2.79/-3.94	-4.73/-4.27	-4.61/-6.66	-8.03/-7.12	-7.37/-15.6	-14.58/-11.87	-14.02/-13.44	-11.02/-10.47	-11.71/-11.67	-15.38/-18.99	-19.12/-14.29	-13.2/-11.19	-19.04/-10.33	-10.22/-8.53	-9.54/-10.05	-6.62/-5.17
Θ(82.5°)	-10.51/-5.41	-4.8/-5.48	-8.62/-1.36	-7.72/-5.92	-3.71/-2.62	-3.62/-5.94	-5.29/-2.53	-1.21/-1.08	-2.87/-2.74	-4.15/-2.7	-6.33/-7.34	-9.49/-11.44	-6.69/-18.37	-12.88/-10.91	-10.78/-14.26	-6.22/-7.38	-6.75/-7.49	-9.86/-12.68	-13.64/-9.02	-8.29/-6.69	-8.32/-9.73	-9.3/-8.22	-6.21/-5.21	-7.34/-5.61
Θ(90°)	-9.73/-9.97	-5.34/-6.33	-13.53/-9.07	-7.26/-7.01	-5.3/-3.4	-4.96/-9.27	-8.31/-3.24	-0.94/-0.42	-1.87/-1.7	-3.73/-5.48	-3.88/-5.55	-9.39/-7.52	-8.44/-12.39	-9.39/-12.72	-14.74/-7.29	-3.33/-2.12	-1.09/-2.45	-5.48/-8.65	-9.75/-6.1	-3.6/-3.23	-2.62/-6.1	-6.47/-5.81	-2.35/-1.88	-6.88/-6.42
Θ(97.5°)	-7.89/-10.4	-4.46/-8.26	-8.7/-9.2	-7.74/-6.16	-5.14/-6.54	-8.6/-12.79	-6.24/-2.93	-0.94/-1.72	-3.08/-4.78	-6.81/-4.77	-3.04/-4.81	-7.04/-6.23	-10.97/-10.74	-8.03/-7.32	-12.22/-3.93	-2.54/-0.55	-0.68/-1.13	-5.8/-8.22	-7.63/-4.34	-3.71/-2.15	-3.53/-3.55	-6.18/-5.2	-5.57/-2.61	-7.64/-14.04
Θ(105°)	-6.13/-7.06	-4.36/-7.11	-9.63/-9.5	-7.94/-9.05	-10.41/-12.43	-10.67/-15.81	-8.99/-5.35	-3.48/-4.44	-4.3/-8.38	-8.74/-5.44	-3.94/-6.55	-6.78/-6.07	-7.44/-14.54	-10.02/-11.65	-17.76/-13.55	-4.36/-1.46	-2/-0.66	-3.8/-2.58	-4.62/-4.54	-2.89/-1.03	-2.81/-3.2	-4.87/-5.04	-3.86/-9.65	-11.36/-14.57
Θ(112.5°)	-4.99/-7	-5.12/-8.43	-15.92/-11.02	-10.1/-8.64	-8.04/-15.02	-16.58/-15.87	-11.58/-8.18	-7.21/-8.49	-9.45/-17.76	-13.71/-7.8	-5.52/-8.37	-8.93/-8.17	-15.3/-18.15	-13.14/-14.25	-15.39/-9.36	-3.08/-4.22	-3.12/-5.09	-5.47/-0.88	-5.24/-6.04	-5.06/-1.97	-3.22/-4.49	-10.85/-8.72	-7.89/-8.55	-10.63/-9.49
Θ(120°)	-5.39/-5.68	-6.96/-10.32	-17.81/-10.65	-10.23/-13.91	-18.19/-11.9	-15.53/-15.99	-18.88/-12.85	-8.9/-8.29	-11.01/-11.54	-13.78/-9.24	-11.33/-16.14	-7.69/-9.18	-10.97/-17.62	-11.88/-18.54	-17.99/-17.82	-2.57/-2.66	-1.62/-2.32	-4.19/-10						



Radiated Composite Gain of 6GHz UNII 5~6

Appendix B

Θ(127.5°)	-16.66/-18.02	-12.06/-7.67	-3.34/-1.59	-2.54/-4.36	-6.24/-5.37	-4.83/-4.23	-5.14/-6.92	-7.79/-7.79	-7.54/-6.86	-7.6/-10.72	-14.93/-17.49	-17.04/-12.41	-14.43/-14.26	-12.79/-10.04	-9.31/-11.51	-15.94/-14.2	-18.14/-16.62	-9.46/-10.06	-13.75/-10.94	-14.24/-19.04	-17.89/-12.29	-10.43/-9.37	-9.64/-8.71	-7.98/-10.53
Θ(135°)	-13.41/-13.97	-12.88/-9.13	-6.12/-3.9	-2.79/-3.8	-5.41/-7.42	-6.79/-5.93	-5.07/-4.74	-4.77/-4.98	-5.89/-6.48	-5.87/-5.68	-7.74/-12.5	-13.12/-9.44	-9.28/-13.11	-13.31/-12.58	-9.1/-7.29	-6.81/-11.93	-13.88/-15.01	-16.46/-18.09	-12.21/-11.29	-18.28/-15.43	-16.08/-11.69	-14.22/-13.47	-11.01/-9.57	-9.53/-10.37
Θ(142.5°)	-16.04/-12.35	-10.11/-8.65	-6.76/-6.01	-5.58/-4.8	-4.29/-3.72	-2.83/-2.05	-1.98/-2.12	-2.02/-2.15	-3.21/-4.96	-6.6/-7.36	-7.03/-7.86	-8.96/-13.1	-12.21/-10.49	-12.85/-17.95	-16.51/-10.67	-10.95/-12.98	-15.26/-18.78	-16.39/-15.16	-13.59/-10.58	-10.41/-17.77	-17.7/-16.59	-11.45/-11.12	-9.99/-10.38	-13.33/-18.28
Θ(150°)	-17.64/-19.08	-16.21/-14.57	-11.83/-8.55	-7.48/-7.23	-6.8/-6.58	-6.67/-6.6	-5.55/-4.11	-3.22/-3.02	-2.8/-2.92	-3.73/-5.77	-8.15/-9.35	-11.25/-17.11	-17.92/-13.85	-12.11/-16.1	-17.26/-18.59	-18.59/-18.65	-18.81/-11.38	-12.86/-17.34	-18.44/-11.98	-10.33/-13.13	-11.31/-8.73	-8.5/-8.99	-9.36/-11.75	-16.55/-19.08
Θ(157.5°)	-18.73/-17.79	-18.61/-18.66	-18.04/-12.62	-9.32/-8.28	-8.31/-8.51	-8.87/-9.05	-8.58/-8.04	-7.47/-7.27	-7.39/-7.66	-8.56/-9.66	-10.19/-10.55	-12.61/-16.82	-13.56/-12.39	-15.4/-18.1	-18.7/-18.17	-17.72/-17.56	-14.55/-13.48	-15.49/-17.91	-17.57/-18.69	-14.89/-14.37	-11.79/-8.45	-7.77/-8.74	-11.26/-14.84	-18.74/-18.4
Θ(165°)	-17.7/-18.83	-17.72/-19.63	-15.83/-12.52	-10.85/-9.19	-7.68/-6.61	-6.22/-6.13	-6.09/-6.5	-5.45/-5.22	-5.24/-5.79	-6.55/-7.06	-7.64/-9.24	-11.87/-15.44	-18.6/-19.34	-19/-18.55	-17.96/-18.65	-18.36/-17.08	-18.29/-16.91	-14.47/-14.26	-14.53/-13.97	-12.89/-12.28	-11.82/-11.86	-12.86/-13.79	-15.05/-17.37	-18.32/-17.91
Θ(172.5°)	-17.86/-18.11	-17.7/-17.44	-17.79/-14.99	-12.12/-9.65	-8.91/-8.98	-8.93/-7.94	-6.44/-5.44	-5.48/-6.05	-6.58/-6.84	-7.23/-7.95	-9.47/-12.14	-15.7/-18.24	-18.17/-17.35	-18.29/-18.67	-18.16/-19.16	-19.13/-16.69	-12.89/-10.56	-9.48/-8.9	-8.04/-8.06	-9.21/-10.63	-11.92/-13.63	-15.68/-17.19	-18.17/-18.5	-17.29/-17.61
Θ(180°)	-19.21/-18.04	-19.06/-18.21	-16.86/-14.51	-12.6/-10.59	-8.65/-7.36	-6.49/-5.97	-5.83/-5.62	-5.89/-6.44	-7.47/-8.67	-10.22/-12.39	-14.83/-17.52	-18.29/-18.47	-18.4/-17.66	-18.77/-18.08	-16.35/-14.06	-12.83/-13.27	-14.41/-14.81	-13.45/-12.29	-12.11/-12.41	-12.2/-11.84	-11.8/-11.99	-12.56/-13.44	-14.18/-15.58	-17.02/-18.16
Freq(Hz)	6.175GPol.	Theta/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°)	-0.15/-0.7	-1.53/-2.62	-3.35/-4.07	-5.02/-6.31	-8.71/-12.09	-15.74/-18.89	-18.17/-12.91	-9.2/-7.21	-5.88/-4.89	-4.15/-3.59	-3.12/-2.79	-2.49/-2.46	-2.61/-3.02	-3.64/-4.2	-4.82/-6.5	-8.91/-12.18	-17.45/-19.18	-18.09/-13.79	-10.25/-7.66	-5.49/-3.74	-2.67/-1.93	-1.28/-0.8	-0.48/-0.05	0.22/0.14
Θ(7.5°)	-2.39/-3.08	-4.14/-5.68	-6.6/-7.65	-8.82/-10.93	-15.02/-18.07	-18/-18.94	-12.66/-8.45	-6.23/-4.85	-3.59/-2.42	-1.43/-0.74	-0.34/-0.19	-0.12/-0.12	-0.36/-0.71	-1.18/-1.74	-2.63/-3.86	-5.2/-6.73	-8.46/-11.22	-15.31/-17.92	-17.49/-13.61	-9.57/-16	-5.78/-4.94	-4.23/-3.57	-3.27/-2.67	-2.32/-2.24
Θ(15°)	-6.69/-7.54	-9.46/-11.73	-13.37/-15.05	-16.55/-18.83	-18.69/-18.73	-18.75/-16.28	-13.36/-10.84	-8.61/-6.6	-4.6/-2.97	-1.89/-1.12	-0.45/-0.12	0.05/0.1	0.04/0.17	0.19/0.09	-0.41/-1.49	-3.18/-5.45	-7.85/-10.23	-12.21/-14.7	-18.76/-18.63	-18.14/-19.03	-17.54/-12.82	-10.07/-8.72	-7.98/-7.34	-6.71/-6.45
Θ(22.5°)	-11.7/-15.93	-19.23/-17.98	-17.37/-18.94	-18.49/-18.58	-16.78/-13.96	-12.38/-11.32	-9.9/-8.25	-6.7/-5.54	-4.46/-3.43	-2.79/-2.37	-1.59/-0.9	-0.36/0.13	0.7/0.8	0.38/-0.39	-1.58/-3.03	-4.61/-5.67	-6.53/-8.26	-10.66/-11.64	-11.24/-12.13	-13.31/-15.14	-16.26/-17.36	-16.13/-14.25	-13.53/-12.81	-11.71/-10.22
Θ(30°)	-12.31/-15.3	-18.49/-17.23	-16.02/-12.45	-12.69/-13.83	-13.85/-14.56	-14.27/-11.19	-8.61/-6.68	-5.19/-4.1	-3.41/-3.4	-3.08/-2.5	-1.82/-1.07	-0.79/-0.14	0.29/0.07	-0.48/-1.18	-2.14/-3.34	-4.11/-4.77	-6.65/-8.42	-8.74/-18.7	-8.54/-10.58	-12.19/-12.07	-13.22/-18.77	-18.11/-19.73	-17.51/-18.21	-15.36/-12.49
Θ(37.5°)	-13.55/-16.69	-18.88/-18.09	-18.57/-15.04	-15.03/-16.03	-17.68/-17.67	-15.37/-11.44	-9.44/-7.22	-5.18/-4.3	-3.58/-2.78	-1.89/-1.08	-1.31/-1.45	-1.14/-0.52	-0.4/-0.96	-1.48/-2.23	-2.44/-3.71	-4.12/-5.23	-6.93/-8.52	-9.6/-9.88	-9.95/-10.45	-13.57/-18.9	-18.87/-18.56	-18.45/-13.5	-12.38/-11.51	-14.39/-14.11
Θ(45°)	-9.11/-9.72	-11.57/-14.59	-16.39/-18.16	-18.89/-16.03	-13.77/-12	-10.07/-7.38	-6.42/-4.8	-4.54/-3.53	-2.45/-1.93	-1.93/-1.97	-1.65/-1.98	-1.13/-0.6	-0.79/-2.13	-2.64/-3.13	-3.72/-3.91	-4.22/-6.09	-8.29/-9.08	-7.66/-6.21	-6.98/-8.92	-9.35/-10.76	-12.34/-11.16	-10.29/-7.37	-9.47/-11.3	-12.44/-10.59
Θ(52.5°)	-9.02/-10.93	-11.37/-17.03	-14.6/-9.99	-8.6/-8.13	-9.27/-9.43	-9.14/-8.74	-7.86/-6.75	-5.44/-4.12	-3.05/-2.8	-2.8/-2.62	-2.09/-1.69	0.3/0.83	-0.81/-3.36	-3.01/-3.63	-3.9/-5.02	-6.75/-7.62	-7.04/-5.73	-5.05/-6.22	-8.41/-8.76	-11.17/-12.92	-13.27/-10.99	-9.35/-8.66	-10.81/-14.08	-12.46/-11.16
Θ(60°)	-8.49/-9.78	-8.2/-9.05	-8.24/-6.79	-5.41/-6.37	-8.11/-10.38	-12.04/-11.4	-10.81/-10.49	-8.13/-5.59	-4.18/-3.14	-2.57/-1.41	-1.16/-1.48	0.16/2.08	0.43/-1.18	-2.14/-2.98	-4.25/-6.11	-8.44/-11.51	-8.92/-5.81	-5.03/-4.58	-6.49/-11.62	-14.83/-12.85	-10.46/-8.35	-8.2/-10.8	-16.44/-11.91	-7.59/-9.21
Θ(67.5°)	-7.79/-6.89	-14.14/-7.08	-4.65/-6.04	-6/-6.25	-5.91/-8.22	-10.91/-14.03	-15.36/-12.34	-9.31/-6.15	-3.45/-2.52	-1.92/-0.7	-0.57/-0.42	0.09/0.05	-1.68/-2.84	-2.87/-2.73	-3.9/-6.79	-8.46/-13.09	-10.02/-7.19	-5.75/-7.6	-11.39/-17.48	-18.08/-13.99	-11.62/-7.6	-6.36/-6.14	-8.8/-11.43	-7.08/-10.03
Θ(75°)	-4.36/-5.7	-7.37/-5.78	-4.52/-3.85	-4.39/-4.38	-5.14/-7.28	-9.43/-13.49	-15.5/-13.18	-9.07/-7.22	-4.53/-5.34	-2.81/-1.81	-1.19/-1.3	-2.38/-1.82	-3.77/-6.46	-5.15/-5.31	-6.34/-6.58	-8.73/-11.78	-6.5/-4.1	-4.55/-6.17	-9.56/-15.33	-18.73/-17.47	-13.24/-5.55	-6.11/-4.91	-5.33/-4.78	-7.03/-5.36
Θ(82.5°)	-3.2/-7.84	-7.99/-6.51	-5.98/-3.14	-2.41/-3.7	-4.76/-6.04	-6.81/-6.55	-7.18/-7.26	-7.42/-5.74	-6.29/-6.44	-5.91/-4.02	-2.32/-3.57	-4.57/-4.84	-5.98/-6.25	-8.12/-10.7	-9.55/-8.42	-9.9/-10.19	-6.41/-3.94	-3.06/-6.28	-11.73/-7.48	-10.41/-7.02	-3.74/-4.46	-5.53/-5.81	-9.56/-4.09	
Θ(90°)	-5.41/-8.68	-13.41/-12.05	-9.26/-9.28	-6.81/-6.27	-7.38/-7.06	-6.81/-5.9	-5.05/-4.19	-6.4/-8.8	-7.34/-7.26	-8.31/-7.15	-4.41/-3.47	-3.76/-5.96	-6.44/-4.27	-6.71/-10.75	-12.26/-10.18	-13.27/-15.88	-8.78/-4.54	-3.51/-3.94	-6.85/-10.32	-14.01/-8.05	-7.99/-11.44	-5.23/-4.93	-5.82/-7.66	-6.89/-9.13
Θ(97.5°)	-6.62/-9.97	-8.97/-12.87	-10.32/-10.53	-9.05/-7.61	-6.22/-4.44	-5.47/-3.61	-4.05/-4.71	-7.3/-7.32	-9.29/-10.41	-9.33/-5.15	-2.95/-3.55	-3.01/-4.27	-4.02/-3.14	-6.83/-5.62	-5.48/-10.97	-17.4/-13.65	-11.52/-13.75	-12.34/-7.55	-16.32/-19	-9.67/-5.25	-10.91/-11.89	-5.51/-8.52	-7.08/-9.32	-10.19/-6.94
Θ(105°)	-10.18/-9.43	-8.26/-9.41	-9.26/-7.57	-5.79/-5.37	-4.52/-4.45	-4.5/-6.02	-5.85/-6.94	-9.62/-8.42	-7.82/-7.37	-8.46/-6.11	-3.82/-2.81	-2.24/-3.33	-3.63/-2.69	-7.55/-7.28	-3.95/-5.33	-12.2/-14.72	-14.03/-9.82	-17.05/-16.42	-18.62/-15.37	-11.44/-10.28	-8.06/-11.3	-6.11/-5.52	-10.16/-9.91	-7.39/-8.53
Θ(112.5°)	-9.07/-6.47	-6.26/-7.04	-6.88/-7.67	-8.19/-8.15	-5.92/-5.7	-6.17/-3.7	-6.85/-6.35	-7.02/-7.52	-8.04/-7.84	-6.61/-5.76	-4.24/-3.1	-5.54/-4.11	-6.85/-6.86	-10.33/-7	-7.85/-6.86	-9.91/-7.98	-13.78/-14.73	-12.99/-8.17	-11.87/-16.73	-12.44/-14.99	-12.82/-10.12	-10.01/-7.87	-13.19/-14.68	-10.89/-10.21
Θ(120°)	-8.66/-4.32	-2.62/-3.19	-4.23/-3.31	-8.46/-8.73	-8.17/-6.88	-5.88/-5.1	-6.07/-6.49	-6.53/-6.79	-6.6/-6.24	-8.01/-8.37	-7.38/-9.6	-10.11/-6.83	-7.35/-8.66	-11.21/-18.29	-10.13/-6.39	-5.74/-15.46	-14.31/-13.94	-11.87/-9.16	-17.64/-15.78	-18.78/-8.09	-10.09/-18.7	-11.29/-8.14	-10.37/-7.84	-4.71/-7.78
Θ(127.5°)	-6.65/-4.5	-3.2/-3.07	-3.3/-3.98	-5.4/-6.83	-7.49/-6.5	-5.59/-5.01	-4/-3.47	-3.86/-4.89	-7.02/-11.51	-11.89/-7.34	-8.17/-10.36	-7.19/-7.57	-7.6/-12.14	-16.21/-14.49	-12.09/-18.44	-17.96/-18	-14.65/-13	-10.63/-7.36	-16.92/-18.61	-17.59/-15.74	-15.22/-17.23	-13.42/-12.72	-13.52/-12.82	-6.95/-6.65
Θ(135°)	-6.88/-5.31	-4.99/-3.38	-3.81/-4.16	-5.61/-5.23	-4.52/-4.69	-4.6/-4.59	-4.97/-5.75	-6.46/-6.96	-8.81/-12.41	-13.71/-8.84	-8.17/-13.76	-18.71/-10.54	-12.47/-11.94	-10.85/-11.37	-14.33/-10.19	-9.35/-15.96	-17.58/-16.75	-15.62/-17.48	-18.88/-17.73	-18.02/-10.82	-8.76/-11.99	-13.19/-14.68	-10.84/-10.21	
Θ(142.5°)	-6.74/-4	-2.24/-2.51	-1.75/-1.72	-3.5/-6.9	-7.03/-7.37	-8.3/-8.88	-8.82/-7.84	-7.7/-8.8	-10.68/-13.87	-15.29/-18.64	-19.34/-18.08	-17.95/-14.77	-18.68/-17.83	-19.71/-16.94	-18.62/-16.13	-17.71/-12.33	-11.66/-16.34	-10.74/-9.58	-13.63/-18	-14.19/-19.07	-19.28/-9.67	-7.96/-9.24	-15.58/-9.79	-9.59/-14.56
Θ(150°)	-6.99/-4.35	-2.29/-1.92	-2.58/-3.44	-4.3/-6.25	-8.79/-11.06	-11.34/-10.88	-11.2/-12.48	-12.8/-13.24	-13.67/-14.11	-16.22/-18.02	-17.64/-17.63	-17.85/-14.83	-18.27/-12.72	-14/-11.65	-17.83/-18.28	-18.65/-13.48	-15.9/-18.01	-16.56/-19.34	-18.91/-19.24	-18.47/-18.92	-13.7/-9.26	-8.45/-7.8	-8.9/-7.8	-9.77/-11.12
Θ(157.5°)	-8.13/-6.8	-5.84/-3.52	-5.81/-4.02	-5.18/-6.28	-6.17/-6.76	-7.55/-8.97	-10.44/-11.49	-12.51/-14.34	-19.01/-18.12	-19.28/-18.47	-18.64/-19.02	-19.6/-19.03	-18.41/-14.65	-12.45/-11.83	-13.02/-13.67	-10.4/-8.73	-10.94/-16.72	-16.78/-15.4	-14.42/-15.96	-17.85/-18.98	-12.62/-9.25	-19.21/-10.29	-11.5/-10.26	-10.10/-0.05
Θ(165°)	-6.71/-6.49	-6.63/-5.78	-4.73/-4.56	-4.75/-5.34	-6.15/-7.11	-7.63/-8.2	-9.08/-10.24	-11.24/-12.65	-14.41/-16.47	-18.44/-17.44	-16.28/-16.46	-17.84/-18.71	-18.69/-18.64	-17.93/-17.52	-17.85/-19	-13.89/-11.43	-10.64/-11.78	-14.56/-17.8	-17.51/-15.46	-14.87/-17.09	-16.26/-13.67	-13.69/-15.13	-13.91/-12.02	-10.2/-8.55
Θ(172.5°)	-8.85/-7.86	-7.01/-6.41	-5.88/-5.52	-5.91/-6.86	-6.13/-6.97	-7.94/-9.09	-15.29/-12.52	-15.86/-17.66	-18.98/-17.86	-18.22/-17.58	-15.95/-15.72	-16.33/-17.74	-19.27/-17.83	-18.88/-18.71	-									



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Freq(Hz)	6.695G	6.995G
Ant. 1 Max Gain (dBi)	2.27	1.82
Ant. 2 Max Gain (dBi)	1.52	1.7
Ant. 3 Max Gain (dBi)	3.71	3.4
Ant. 4 Max Gain (dBi)	2.11	2.23
Ant. 1 Polarization/Θ(°)/Φ(°)	Phi/75/180	Theta/112.5/217.5
Ant. 2 Polarization/Θ(°)/Φ(°)	Theta/60/345	Theta/97.5/270
Ant. 3 Polarization/Θ(°)/Φ(°)	Theta/135/262.5	Theta/135/262.5
Ant. 4 Polarization/Θ(°)/Φ(°)	Theta/37.5/157.5	Theta/37.5/172.5
Max Gain (dBi)	3.71	3.4
DG [1SS] (dBi)	4.23	4.84
DG [2SS] (dBi)	3.71	3.4
DG [4SS] (dBi)	3.71	3.4

DG 1SS Result

Freq(Hz)	6.695GPol.	Phv	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	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°)	-3.05/-2.52	-2.48/-2.35	-1.91/-2.16	-2.45/-2.97	-3.4/-3.71	-3.77/-3.98	-4.31/-4.48	-4.27/-4.1	-4.65/-5.02	-4.99/-5.11	-5.36/-5.2	-4.97/-4.95	-4.87/-4.38	-3.96/-3.19	-3.24/-3.36	-3.93/-3.98	-3.83/-4.08	-4.33/-4.65	-4.95/-4.66	-4.78/-4.77	-5.09/-4.98	-4.77/-4.47	-4.5/-4.02	-3.54/-3.55
θ(7.5°)	-4.54/-3.79	-3.46/-2.77	-2.3/-2.27	-2.67/-3.54	-4.07/-4.4	-4.79/-4.98	-5.04/-5.44	-5.35/-4.35	-3.9/-3.88	-4.51/-4.57	-4.17/-3.81	-3.66/-3.14	-2.6/-2.37	-2.33/-2.4	-2.71/-2.55	-2.78/-3.24	-3.44/-3.27	-3.19/-3.77	-4.22/-3.61	-3.73/-3.78	-4.19/-4.44	-4.88/-5.3	-6.13/-4.98	-5.36/-5.61
θ(15°)	-4.57/-4.11	-5.01/-4.77	-4.49/-3.84	-4.11/-4.4	-4.24/-1.6	-4.26/-4.3	-4.59/-5.01	-5.36/-4.82	-4.47/-4.78	-4.91/-4.3	-3.95/-3.52	-3.06/-1.69	-0.78/-0.36	-0.47/-0.92	-1.39/-1.51	-1.94/-2.47	-3.27/-3.64	-4.19/-4.51	-4.59/-4.74	-4.31/-3.39	-2.74/-2.42	-2.08/-2.84	-4.8/-5.26	-5.66/-6.08
θ(22.5°)	-3.89/-4.82	-5.96/-5.91	-5.19/-4.09	-2.79/-2.12	-2.24/-2.67	-3.2/-3.19	-2.98/-2.84	-3.57/-4.11	-3.91/-4.57	-5.15/-4.24	-3.41/-2.89	-2.52/-1.54	-0.29/-0.3	-0.31/-0.65	-1.79/-2.89	-0.03/-0.51	-5.87/-6.46	-6.97/-5.62	-4.07/-2.34	-1.59/-1.39	-1.57/-1.45	-1.73/-1.88	-2.94/-3.28	-3.08/-3.38
θ(30°)	-2.09/-3.6	-6.16/-5.59	-4.16/-2.98	-1.85/-2.39	-3.13/-2.91	-2.52/-2.29	-1.88/-1.89	-1.83/-1.65	-1.95/-2.24	-2.83/-2.93	-3.05/-3.99	-3.35/-1.92	-0.59/-0.09	-0.09/-0.97	-2.73/-3.53	-3.49/-3.77	-4.6/-5.23	-6.16/-6.58	-5.11/-3.92	-2.28/-1.12	-0.86/-1.1	-0.81/-1.6	-3.02/-4.02	-2.93/-2.77
θ(37.5°)	-4.89/-7.06	-8.13/-7.35	-3.98/-2.05	-0.87/-0.92	-1.52/-2.44	-4.08/-5	-4.3/-2.9	-1.94/-1.14	-0.7/-0.15	-0.33/-1.42	-2.06/-2.04	-2.66/-2.02	-0.38/-1.02	-1.52/-2.22	-1.99/-0.86	-2.5/-4.45	-5.3/-5.24	-4.52/-3.66	-3.48/-3.9	-5.05/-5.5	-3.83/-1.72	-0.66/-0.19	-1.22/-2.08	-2.32/-3.56
θ(45°)	-3.95/-5.93	-6.01/-5.39	-3.67/-2.56	-1.66/-1.37	-2.35/-3.97	-5.78/-7.21	-6.01/-3.66	-1.27/-1.65	-1.13/-0.03	-0.32/-0.71	-1.53/-2.03	-2.71/-1.91	-1.17/-2.16	-2.08/-1	-0.6/-2.8	-5.79/-6.8	-6.68/-7.69	-7.48/-6.53	-5.63/-4.17	-3.01/-2.28	-2.32/-3.11	-0.81/-1.77	-1.18/-2.22	-2.65/-2.7
θ(52.5°)	-3.89/-4.54	-4.8/-3.8	-2.02/-0.73	-0.42/-0.92	-1.23/-2.82	-5.39/-6.15	-6.92/-5.84	-3.28/-1.79	-1.93/-1.87	-0.94/-0.96	-2.81/-2.61	-1.88/-2.06	-2.68/-3.54	-2.59/-1.31	-1.98/-4.42	-6.84/-7.37	-6.65/-5.13	-4.64/-5.94	-5.35/-0.03	-2.97/-2.75	-2.92/-2.36	-1.63/-1.17	-3.23/-1.96	-2.87/-3.25
θ(60°)	-3.08/-5.55	-4.67/-3.23	-2.94/-1.94	-2.59/-2.31	-2.31/-3.23	-5.62/-7.86	-8.99/-8.29	-5.82/-3.96	-2.89/-1.9	-1.63/-0.11	-1.6/-2.33	-1.57/-2.6	-2.24/-2.44	-1.99/-1.95	-3.56/-4.84	-6.06/-4.2	-2.55/-1.83	-3.86/-4.28	-6.16/-6.44	-2.82/-2.45	-1.2/-2.15	-1.21/-1.26	-1.32/-2.77	-2.32/-3.56
θ(67.5°)	-3.07/-3.74	-2.44/-1.52	-1.07/-0.86	-0.94/-0.95	-1.75/-0.67	-1.52/-1.57	-3.22/-3.27	-4.47/-3.09	-2.22/-2.36	-0.82/-0.33	-1.36/-2.52	-0.65/-0.93	-1.47/-2.02	-1.00/-4.53	-5.9/-7.5	-2.63/-2.71	-1.72/-1.54	-1.06/-2.03	-2.73/-5.24	-6.29/-6.53	-5.68/-4.11	-2.52/-2.24	-2.88/-1.9	-1.41/-1.66
θ(75°)	-4.06/-3.89	-2.5/-0.98	-1.65/-1.39	-1.26/-0.35	-0.1/-0.46	-0.5/-1.63	-2.7/-2.85	-1.73/-3.24	-2.12/-1.01	-1.72/-1.77	-1.86/-3.12	-1.51/-0.88	-1.23/-1.42	-1.87/-1.82	-2.6/-3.31	-5.12/-5.89	-3.69/-2.81	-2.6/-2.71	-1.9/-3.29	-4.5/-6.05	-4.78/-5.4	-4.53/-4.28	-1.36/-2.32	-2.83/-2.79
θ(82.5°)	-4.64/-4.88	-2.78/-0.7	-1.67/-4.1	-1.70/-84	-0.01/-0.58	-0.18/-2.65	-2.52/-3.34	-2.97/-1.23	-0.55/-1.33	-1.87/-7.39	-3.64/-3.33	-1.77/-1.98	-1.84/-1.93	-3.07/-1.7	-0.81/-1.39	-3.72/-4.71	-3.23/-3.4	-2.65/-0.91	-1.58/-2.5	-3.09/-3.09	-5.01/-2.45	-2.91/-4.23	-4.14/-1.42	-2.03/-3.66
θ(90°)	-5.91/-4.14	-3.94/-3.01	-3.04/-2.79	-0.91/-2.66	-0.67/-1.02	-0.73/-2.67	-1.6/-1.52	-3.88/-2.78	-2.02/-1.7	-1.8/-2.23	-2.7/-3.03	-1.96/-0.89	-0.91/-1.38	-3.37/-4.37	-2.83/-1.7	-3.52/-6.79	-3.9/-6.34	-7.08/-3.46	-2.19/-2.96	-3.05/-4.33	-3.95/-1.92	-2.59/-5.18	-5.39/-3.83	-6.46/-5.29
θ(97.5°)	-2.14/-0.92	-4.15/-5.61	-2.29/-1.78	-2.45/-3.15	-1.750/-34	-0.04/-1.4	-0.9/-1.21	-1.03/-0.57	-2.12/-1.76	-1.34/-1.39	-1.57/-0.14	-1.15/-1.5	-2.05/-2.41	-3.87/-3.03	-3.15/-3.08	-4.4/-5.66	-5.13/-4.98	-8.71/-4.23	-1.92/-1.83	-5.35/-8.76	-5.78/-3.14	-2.37/-2.68	-3.07/-1.93	-2.16/-2.15
θ(105°)	-2.39/-3.4	-1.55/-8.07	-1.38/-0.48	-2.97/-4.1	-2.71/-0.9	-0.92/-1.6	-0.83/-1.4	-0.42/-0.37	-3.06/-2.52	-2.97/-3.26	-0.010/-23	-1.07/-1.49	-3.85/-5.7	-4.02/-4.02	-3.88/-9.11	-7.85/-4.5	-3.01/-1.1	-4.56/-6.5	-3.16/-4.32	-4.55/-3.98	-5.36/-7.81	-2.4/-2.88	-2.49/-1.73	-3.09/-3.86
θ(112.5°)	-2.86/-3.01	-3.72/-4.53	-2.15/-0.3	-0.49/-1.84	-0.66/-0.78	-0.47/-0.77	-0.73/-1.02	-1.11/-3.6	-1.71/-2.4	-2.32/-1.45	-0.3/-1.67	-4.6/-2.4	-7.91/-10.26	-5.35/-4.79	-8.17/-2.92	-1.58/-4.3	-3.22/-3.04	-1.5/-6.65	-6.98/-8.83	-4.5/-3.42	-4.82/-5.82	-2.72/-1.56	-1.97/-0.52	-0.49/-3.14
θ(120°)	-3.57/-5.72	-3.38/-4.36	-4.67/-2.62	-1.85/-4.45	-2.94/-1.24	-0.45/-1.49	-1.69/-2.79	-3.19/-1.77	-2.19/-2.18	-1.85/-1.61	-2.61/-3.75	-4.85/-3.81	-4.72/-4.77	-3.64/-1.54	-1.9/-0	-1.377/-7.97	-6.51/-3.68	-3.88/-6.6	-5.59/-3.83	-6.63/-5.97	-6.64/-9.03	-5.24/-1.87	-0.09/-0.43	-1.66/-2.8
θ(127.5°)	-2.61/-0.98	-1.03	-0.79/-0.4	-0.42/-2.2	-3.77/-1.21	-1.17/-1.48	-2.02/-2.02	-2.18/-1.34	-2.24/-2.25	-1.88/-1.3	-1.89/-3.7	-3.25/-4.14	-4.62/-2.42	-0.99/-1.55	-4.42/-3.21	-3.96/-4	-2.93/-3.7	-3.93/-3.77	-6.71/-3.39	-6.49/-4.23	-4.3/-7.9	-8.11/-2.06	-0.43/-1.22	-0.11/-0.6
θ(135°)	-1.43/-0.56	-1.02/-0.94	1.29/-0.64	-0.43/-0.2	-1.35/-2.87	-1.060/-4	0.23/-0.43	-1.1/-1.62	-0.73/-0.39	0.02/-0.19	-0.66/-2.92	-4/-2.34	-4.11/-3.22	-1.79/-4.59	-8.54/-3.49	-2.38/-2.37	-0.49/-2.21	-4.42/-7.11	-10.31/-5.87	-5.3/-5.4	-3.59/-5.35	-4.66/-1.22	-0.61/-1.88	-1.77/-1.71
θ(142.5°)	-3.36/-1.85	0.360/-4	-0.57/-1.86	-1.88/-1.42	-1.92/-2.32	-2.3/-2.3	-1.92/-2.13	-2.43/-2.76	-2.68/-1.24	-0.67/-1.48	-2.51/-2.15	-2.53/-4.58	-7.9/-1.77	-4.21/-2.88	-4.47/-3.54	-3.42/-2.77	-2.72/-3.98	-4.08/-4.23	-5.58/-3.72	-3.77/-7.47	-8.52/-5.42	-3.79/-2.33	-2.07/-3.7	-3.64/-2.45
θ(150°)	-3.01/-1.2	-1.71/-2.63	-3.44/-3.97	-4.71/-84.6	-5.03/-5.43	-5.95/-6.46	-6.17/-5.76	-6.09/-5.62	-4.68/-3.22	-2.84/-2.92	-3.45/-4.33	-6.21/-7.56	-6.83/-6.65	-6.19/-3.62	-1.19/-1.08	-1.44/-1.1	-2.27/-2.38	-3.81/-4.33	-5.97/-6.92	-4.82/-6.02	-8/-4.77	-1.01/-1.08	-2.01/-8.22	-4.72/-4.02
θ(157.5°)	-2.02/-1.66	-1.72/-2.41	-3.28/-3.32	-3.78/-4.51	-3.96/-2.58	-2.04/-2.08	-1.83/-1.35	-1.07/-1.15	-1.42/-1.65	-1.84/-2.27	-2.8/-2.93	-3.56/-4.36	-4.57/-3.27	-2.05/-1.56	-1.55/-3.21	-3.73/-2.34	-2.79/-4.5	-5.07/-1.69	-8.18/-10.28	-1.91/-9.79	-6.22/-5.66	-4.34/-2.48	-0.96/-3.06	-0.91/-37
θ(165°)	-4.89/-4.42	-3.92/-4.14	-4.31/-4.31	-3.76/-3.5	-3.86/-4.31	-4.37/-4.52	-4.57/-4.3	-3.78/-3.08	-2.65/-2.42	-2.83/-3.56	-3.85/-3.88	-4.37/-4.67	-4.92/-4.88	-5.2/-5.76	-5.22/-4.54	-3.98/-4.16	-4.98/-5.03	-4.8/-5.52	-6.41/-7.44	-9.53/-10.08	-7.37/-7.27	-8.59/-10.23	-8.27/-5.94	-5.58/-5.94
θ(172.5°)	-9.04/-7.92	-7.25/-6.25	-5.36/-3.8	-3.12/-2.28	-1.49/-1.01	-0.88/-0.68	-0.46/-0.7	-1.24/-1.91	-1.93/-2.19	-2.76/-3.41	-3.94/-7.3	-6.18/-7.62	-8.03/-8.13	-7.45/-7.28	-7.32/-7.42	-7.19/-7.08	-6.69/-6.88	-7.21/-7.83	-8.06/-7.84	-7.32/-6.67	-6.37/-6.98	-7.73/-7.64	-8.16/-8.4	-9.71/-9.94
θ(180°)	-11.26/-10.58	-10.15/-8.68	-8.56/-6.83	-5.42/-4.67	-4.37/-4.12	-3.99/-3.6	-3.26/-2.96	-2.59/-2.7	-3.04/-3.4	-4.05/-4.68	-5.47/-6.25	-7.48/-8.15	-7.98/-7.85	-7.54/-7.19	-6.78/-6.61	-5.98/-5.02	-4.44/-3.91	-3.32/-2.83	-3.11/-2.97	-3.37/-3.42	-3.68/-3.92	-3.93/-4.25	-4.69/-5.83	-7.85/-10.27
Freq(Hz)	6.695GPol.	Thetal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DG(dB)	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°)	-4.92/-4.77	-4.85/-4.98	-4.64/-4.3	-4.87/-4.85	-4.68/-4.45	-4.34/-1.7	-3.9/-4.03	-4.41/-4.9	-5.09/-4.99	-5.29/-5.11	-4.94/-5.13	-5.14/-5.07	-4.84/-4.69	-4.31/-4.01	-4.07/-4.17	-3.23/-2.94	-3.65/-3.52	-3.06/-3.1	-3.32/-2.94	-3.06/-3.1	-3.03/-2.75	-2.67/-3.2	-3.67/-3.72	-4.15/-4.51
θ(7.5°)	-5.24/-5.15	-4.91/-4.79	-4.1/-3.88	-3.43/-3.04	-3.15/-3.29	-2.97/-2.46	-2.18/-2.31	-2.35/-2.29	-2.14/-2.05	-2.12/-2.11	-2.51/-3.45	-4.32/-4.61	-4.77/-4.99	-4.71/-4.49	-4.29/-4.25	-4.24/-4.52	-4.77/-4.98	-4.9/-4.14	-3.85/-3.85	-3.99/-4.09	-4.28/-4.67	-5.13/-5.78	-5.98/-5.09	-4.99/-5.61
θ(15°)	-5.06/-4.95	-4.96/-4.29	-2.53/-2.14	-1.58/-1.52	-1.58/-1.38	-1.73/-1.87	-1.85/-1.93	-1.49/-1.26	-0.88/-0.35	0.08/-0.02	-0.67/-1.65	-2.58/-3.06	-3.57/-4.15	-4.42/-4.92	-5.67/-6.18	-6.45/-5.6	-4.96/-4.54	-3.71/-3.5	-3.44/-3.72	-3.7/-3.16	-2.12/-2.57	-2.15/-2.57	-2.99/-2.93	-3.68/-3.47
θ(22.5°)	-3.49/-3.63	-2.95/-2.21	-1.97/-2.02	-2.02/-2.24	-2.02/-2.27	-2.61/-2.59	-2.84/-3.23	-1.98/-1.97	-1.14/-1.43	-2.05/-3.1	-3.89/-4.63	-5.8/-5.54	-4.65/-3.83	-2.8/-2.04	-1.6/-1.48	-1.85/-2.28	-3.99/-4.66	-4.77/-5.01	-4.89/-3.75	-2.99/-2.23	-2.34/-2.66			
θ(30°)	-3.69/-3.97	-2.57/-1.48	-1.37/-1.87	-2.27/-2.33	-1.76/-1.04	-0.2/-0.12	-0.7/-1.73	-1.91/-1.89	-2.38/-2.15	-1.2/-0.25	0.660/-98	0.79/-0.11	-1.04/-1.3	-1.61/-2.67	-4.31/-5.13	-5.02/-3.94	-3.23/-2.7	-2.05/-2.04	-3.26/-4.85	-5.95/-6.48	-7.97/-8.75	-6.21/-5.86	-4.83/-3.82	-3.32/-2.81
θ(37.5°)	-2.49/-3.18	-2.66/-2.42	-2.22/-1.85	-1.42/-0.8	0.120/-52	0.240	-0.21/-0.25	-1.03/-1.65	-1.290/-07	1.131/-07	0.35/-0.55	-0.41/-0.66	-1.01/-3	-5.26/-2.49	-1.93/-1.68	-2.36/-1.3	-5.41/-5.9	-4.6/-4	-5.13/-6.52	-6.9/-6.61	-4.98/-5.01	-3.42/-2.98	-3.35/-1.86	
θ(45°)	-0.78/-0.57	-3.45/-3.06	-1.73/-0.52	0.661/-18	1.130/-59	0.177/-18	0.130/-36	0.64/-26	1.581/-35	0.730/-15	0.58/-0.05	-0.28/-0.09	-0.87/-4.62	-5.59/-2.29	-1.32/-1.58	-2.67/-3.78	-4.5/-4.44	-4.43/-4.1	-3.81/-6.61	-5.24/-4.49	-4.29/-4.54	-4.55/-1.16	-0.56/-1.24	
θ(52.5°)	-0.480/-13	-1.77/-1.62	-1.05/-1.02	0.321/-95	2.31/-64	0.970/-6	0.931/-38	1.85/-216	2.141/-53	0.32/-0.95	0.531/-66													

Gain Result

Freq(Hz)	6.695(Pol)	PhiAnt	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
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°)	-8.07/-7.48	-8.36/-9.09	-8.41/-8.73	-9.96/-11.32	-13.22/-15.64	-17.03/-18.49	-19.01/-17.78	-18.29/-18.13	-17.92/-18.71	-18/-18.72	-17.15/-14.04	-12.39/-12.01	-11.91/-11.36	-10.4/-9.59	-9.54/-10.34	-11.62/-12.95	-15.11/-19.24	-19.38/-18.03	-18.42/-16.58	-15.4/-15.08	-14.14/-12.28	-11.43/-9.38	-7.76/-6.42	-6.79/-8.04		
Θ(7.5°)	-10.45/-8.88	-8.63/-6.7	-7.3-8.1	-9.31/-11.18	-12.46/-15.13	-18.74/-18.75	-18.45/-18.61	-17.53/-14.84	-12.39/-10.99	-10.07/-8.97	-7.75/-7.09	-6.78/-6.79	-7.02/-7.67	-8.8/-9.4	-11.59/-12.43	-13.49/-15.2	-17.8/-18.81	-18.95/-19.17	-19.17/-17.68	-17.91/-18.86	-19.22/-19.2	-17.8/-19.09	-10.82/-12.31	-10.79/-11.32		
Θ(15°)	-8.81/-6.74	-7.73/-8.04	-9.37/-9.79	-11.11/-12.75	-14.07/-16.67	-18.53/-18.78	-18.4/-17.96	-16.43/-13.82	-12.58/-11.54	-10.05/-7.81	-6.18/-4.83	-3.74/-2.84	-2.58/-3.14	-4.4/-4.28	-8.88/-11.4	-16.64/-19.39	-18.98/-17.6	-17.66/-18.1	-14.96/-14.79	-14.65/-13.68	-12.78/-10.77	-9.25/-9.02	-10.34/-10.99	-11.58/-11.65		
Θ(22.5°)	-7.5/-8.47	-9.11/-8.18	-10.41/-7.72	-11.71/-6.72	-7.81/-9.31	-10.59/-12.37	-15.17/-17.05	-18.81/-18.93	-17.89/-19.37	-15.86/-10.63	-6.24/-3.45	-1.84/-1.81	-1.18/-2.25	-4.53/-7.7	-9.33/-10.78	-13.84/-15.93	-18.4/-18.6	-18.47/-13.4	-11.18/-10.26	-11.1/-12.71	-15.02/-13.67	-10.39/-7.95	-7.05/-5.88	-5.08/-6.23		
Θ(30°)	-3.69/-5.99	-8.55/-6.7	-6.74/-6.92	-6.1/-6.14	-6.77/-6.99	-8.26/-5.92	-10.83/-11.86	-13.02/-13.13	-12.88/-13.13	-12.61/-9.78	-6.91/-5.42	-3.16/-1.33	-1.0/-99	-1.73/-3.76	-5.24/-6.45	-9.63/-14.16	-18.63/-18.08	-18.94/-15.46	-11.33/-9.75	-11.24/-15.49	-19.36/-19.04	-12.75/-10.95	-10.12/-8.45	-6.14/-5.9		
Θ(37.5°)	-10.69/-14.51	-13.87/-11.43	-8.17/-5.39	-3.59/-3.7	-4.68/-6.71	-8.81/-10.72	-12.09/-11.65	-10.43/-9.66	-9.95/-9.54	-8.46/-9.01	-5.96/-4.29	-2.97/-3.15	-3.13/-3.38	-3.14/-1.89	-2.86/-6.9	-12.74/-17.05	-12.31/-14.07	-8.48/-8.47	-10.64/-12.31	-11.48/-12.9	-18.18/-15.7	-9.09/-5.34	-6.43/-7.18	-6.62/-8.99		
Θ(45°)	-8.21/-14.8	-14.71/-18.2	-15.65/-11.81	-8.65/-6.34	-5.57/-6.48	-8.28/-9.74	-9.22/-11.32	-14.51/-12.53	-12.64/-13.72	-9.38/-6.9	-4.87/-3.94	-5.42/-5.2	-1.660/-73	-0.34/-1.67	-7.11/-11.43	-15.4/-16.32	-17.78/-18.51	-18.38/-18.34	-17.8/-17.3	-15.58/-8.64	-6.8/-6.73	-5.42/-5.81	-5.85/-6.81			
Θ(52.5°)	-11.84/-11.53	-13.51/-13.57	-13.22/-10.57	-7.44/-5.05	-4.94/-5.67	-7.26/-9.37	-12.12/-12.78	-10.08/-8.12	-6.5/-3.24	-2.89/-3.82	-5.69/-4.61	-3.67/-9.23	-2.57/-4.39	-2.36/-1.5	-2.58/-6.17	-14.92/-15.54	-12.13/-13.77	-17.82/-18.88	-14.22/-18.62	-17.69/-18.1	-12.2/-8.08	-5.5/-3.79	-6.53/-8.02	-9.5/-7.84		
Θ(60°)	-7.25/-9.79	-14.63/-16.24	-16.39/-12.53	-8.45/-6.78	-7.66/-8.93	-12.52/-14.35	-17.93/-18.16	-12.94/-17.78	-9.89/-6.39	-4.04/-3.56	-4.32/-3.24	-2.61/-2.95	-2.45/-1.98	-0.760/-15	-1.86/-3.93	-6.17/-14.18	-5.56/-8.42	-16.83/-19.1	-16.08/-11.99	-15.41/-14.01	-10.17/-15.5	-4.34/-4.62	-4.24/-3.95	-4.9/-5.75		
Θ(67.5°)	-5.55/-8.72	-10.38/-16.67	-8.71/-7.36	-7.98/-8.46	-9.09/-8.98	-9.22/-11.32	-14.51/-12.53	-12.64/-13.72	-9.38/-6.9	-4.87/-3.94	-5.42/-5.2	-1.660/-73	-0.34/-1.67	-7.11/-11.43	-15.4/-16.32	-17.78/-18.51	-18.38/-18.34	-17.8/-17.3	-15.58/-8.64	-6.8/-6.73	-5.42/-5.81	-5.85/-6.81				
Θ(75°)	-6.3/-8.24	-11.31/-13.23	-9.07/-6.32	-6.33/-6.81	-5.52/-6.43	-11.85/-17.85	-19.02/-17.32	-11.91/-13.1	-10.1/-5.86	-5.06/-4.51	-4.8/-3.54	-1.5/-151	-2.27/-5.15	1.03/-0.36	-2.09/-4.29	-10.17/-12.83	-12.76/-13.54	-11.21/-9.96	-11.37/-11.63	-12.98/-18.01	-18.51/-13.73	-12.43/-6.75	-3.28/-7.2	-5.83/-6.65		
Θ(82.5°)	-10.71/-11.74	-11.28/-11.55	-10.68/-6.18	-4.11/-5.45	-5.92/-6.82	-10.82/-12.61	-17.49/-18.22	-13.54/-10.37	-9.75/-5.85	-6.85/-6.85	-4.38/-0.7	0.880/-75	0.74/-0.15	-1.64/-1.94	-1.88/-4.16	-9.28/-11.85	-16.02/-17.03	-8.11/-7.75	-8.56/-12.31	-12.77/-16.58	-18.38/-14.4	-12.3/-10.78	-8.99/-5.07	-5.48/-9.72		
Θ(90°)	-12.59/-11.41	-12.06/-16.25	-10.6/-5.35	-4.1/-5.49	-6.08/-8.26	-14.89/-18.7	-18.79/-18.52	-15.15/-15.52	-12.41/-7.81	-6.98/-4.69	-2.69/-0.59	1.542	0.36/-1.4	-3.23/-5.73	-5.53/-7.09	-10.53/-18.8	-12.36/-12.98	-13.72/-12.33	-11.77/-18.67	-18.39/-17.8	-11.91/-11.79	-14.41/-12.88	-7.6/-27	-8.81/-11.11		
Θ(97.5°)	-7.91/-6.76	-10.54/-12.79	-9.38/-7.41	-7.34/-8.17	-7.23/-8.27	-9.03/-10.99	-18.49/-18.72	-18.67/-18.15	-14.72/-6.56	-4.7/-4.15	-2.380/-91	1.35/-1.35	-3.29/-3.85	-6.4/-5.1	-4.11/-6.3	-8.8/-11.39	-15.52/-11.89	-18.21/-18.28	-15.15/-16.27	-15.83/-17.57	-12.08/-10.25	-14.12/-14.1	-10.78/-7.53	-3.92/-6.71		
Θ(105°)	-9.04/-8.93	-10.27/-14.13	-7.53/-5.95	-7.13/-8.7	-9.09/-7.96	-13.88/-14.28	-16.26/-16.95	-13.09/-12.88	-15.25/-9.99	-7.72/-4.49	-1.470/-17	0.73/-0.8	-5.04/-7.52	-1.70/-2.12	-4.86/-12.84	-18.77/-19.19	-4.5/-5.7	-13.61/-10.24	-12.38/-13.64	-11.39/-9.7	-18.79/-17.09	-10.46/-18.78	-12.38/-7.52	-6.9/-8.36		
Θ(112.5°)	-11.79/-6.7	-8.25/-8.24	-9.18/-7.4	-6.74/-8.21	-7.99/-7.67	-9.93/-8.86	-10.98/-13.94	-10.93/-14.06	-10.59/-12.18	-6.5/-6.67	-2.07/-1.27	-3.25/-6.03	-10.20/-19.23	-11.62/-6.3	-12.07/-5	-4.09/-7.98	-6.75/-6.59	-8.72/-18.98	-12.95/-10.32	-11.94/-11.64	-17.78/-14.24	-18.81/-18.2	-18.58/-7.55	-5.33/-9.24		
Θ(120°)	-7.54/-10.45	-10.72/-12.57	-12.94/-11.2	-10.45/-11.46	-10.82/-9.58	-7.73/-10.85	-13.96/-11.01	-18.88/-11.56	-13.43/-7.6	-4.64/-2.49	-3.07/-3.48	-5.04/-7.86	-12.39/-10.27	-5.41/-1.99	-4.47/-1.05	-4.47/-13.02	-14.31/-9.27	-9.05/-17.97	-17.15/-18.79	-10.11/-15.14	-12.23/-17.69	-12.57/-18.29	-9.99/-7.65	-5.41/-4.93		
Θ(127.5°)	-11.98/-12.65	-13.54/-13.29	-16.1/-10.7	-7.64/-8.34	-12.1/-14.46	-12.71/-10.88	-14.54/-12.96	-12.53/-11.38	-8.21/-8.72	-7.25/-4.81	-2.95/-4.03	-5.52/-11.3	-10.6/-5.83	-2.86/-2.34	-3.12/-4.11	-6.08/-5.46	-4.97/-8.05	-9.04/-10.41	-14.64/-8.3	-6.51/-9.8	-8.12/-16.75	-18.46/-12.16	-8.52/-6.12	-5.32/-7.8		
Θ(135°)	-11.35/-11.26	-9.73/-9.07	-10.94/-18.48	-10.47/-10.47	-13.24/-17.95	-11.47/-8.6	-9.34/-12.93	-17.96/-16.05	-10.91/-7.15	-5.18/-4.47	-8.85/-3.61	-5.28/-10.78	-10.07/-8.3	-9.23/-7.08	-16.48/-9.09	-18.54/-5.24	-1.51/-1.93	-5.51/-11.2	-11.79/-7.1	-6.5/-9.3	-6.8/-11.02	-17.88/-18.51	-18.54/-12.13	-6.22/-9.8		
Θ(142.5°)	-8.65/-11.13	-11.10/-13.22	-10.91/-13.27	-19.13/-16.64	-13.09/-12.75	-15.08/-17.43	-13.51/-11.76	-11.99/-13.25	-10.66/-7.69	-6.43/-4.75	-4.82/-4.69	-6.64/-8.37	-11.44/-7.24	-4.74/-4.89	-7.28/-6.1	-3.27/-4.18	-2.83/-3.25	-6.86/-8.99	-6.88/-4.83	-5.11/-27	-13.58/-12.22	-14.59/-13.31	-15.3/-18.44	-11.41/-8.82		
Θ(150°)	-13.27/-10.19	-11.18/-16.68	-18.63/-16.1	-16.22/-14.49	-12.32/-11.31	-11.78/-15.22	-17.12/-14.18	-11.63/-10.1	-9.71/-8.91	-8.11/-8.52	-9.26/-10.13	-10.39/-10.88	-9.92/-9.3	-7.29/-5.07	-2.54/-0.48	-1.20/-48	0.16/-2.68	-6.11/-6.41	-6.73/-7.42	-6.51/-8.61	-11.59/-14.06	-14.78/-18.66	-12.86/-13.17	-11.73/-14.39		
Θ(157.5°)	-11.6/-16.65	-18.61/-18.83	-15.01/-15.33	-15.54/-16.75	-16.21/-17.56	-17.83/-18.49	-16.18/-13.05	-11.38/-10.9	-9.62/-7.61	-6.15/-6.78	-6.75/-7.42	-7.18/-7.29	-6.82/-6.56	-3.99/-2.16	-0.84/-1.33	-1.97/-2.41	-6.82/-5.53	-18.23/-15.3	-11.57/-17.7	-11.57/-17.57	-14.27/-11.28	-8.82/-6.65	-5.98/-8.33			
Θ(165°)	-13.73/-15.59	-14.49/-15.12	-17.37/-19.27	-18.62/-17.91	-18.19/-19.22	-18.87/-17.26	-18.04/-17.28	-18.02/-17.84	-19.01/-15.1	-13.61/-15.08	-18.31/-17.19	-12.88/-9.08	-6.96/-6.02	-6.06/-6.32	-6.52/-7.41	-8.76/-9.59	-9.14/-8.33	-8.93/-10.27	-11.53/-14.17	-18.55/-19.66	-14.71/-17.15	-18.61/-18.55	-11.64/-8.55	-9.01/-12.19		
Θ(172.5°)	-15.25/-13.05	-14.56/-14.54	-17.93/-18.73	-18.52/-19.12	-19.12/-18.18	-18.15/-17.92	-17.64/-18.23	-17.95/-19.09	-17.98/-17.47	-18.05/-18.3	-15.42/-18.21	-18.41/-17.11	-15.33/-13.59	-12.66/-13.99	-14.49/-15.89	-15.66/-16.17	-15.5/-14.89	-13.71/-13.83	-16.9/-12.7	-18.66/-18.68	-18.29/-18.43	-19.19/-16.56	-15.29/-14.71	-14.61/-15.71		
Θ(180°)	-17.76/-19.26	-16.79/-17.04	-17.07/-14.29	-14.24/-15.05	-15.12/-18.52	-18.12/-18.52	-17.75/-18.34	-17.35/-18.09	-19.24/-18.32	-17.64/-18.22	-15.23/-13.15	-12.39/-11.78	-11.21/-11.59	-11.65/-11.24	-11.13/-19.19	-10.66/-11.06	-11.61/-19.1	-13.09/-15.15	-18.98/-18.8	-18.68/-18.23	-19.21/-18.44	-19.93/-18.56	-15.31/-14.17	-17.71/-16.63		
Freq(Hz)	6.695(Pol)	ThetaAnt	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
Gain	Φ(0°)Φ(7.5°)	Φ(15°)Φ(22.5°)	Φ(30°)Φ(37.5°)	Φ(45°)Φ(52.5°)	Φ(60°)Φ(67.5°)	Φ(75°)Φ(82.5°)	Φ(90°)Φ(97.5°)	Φ(105°)Φ(112.5°)	Φ(120°)Φ(127.5°)	Φ(135°)Φ(142.5°)	Φ(150°)Φ(157.5°)	Φ(165°)Φ(172.5°)	Φ(180°)Φ(187.5°)	Φ(195°)Φ(202.5°)	Φ(210°)Φ(217.5°)	Φ(225°)Φ(232.5°)	Φ(240°)Φ(247.5°)	Φ(255°)Φ(262.5°)	Φ(270°)Φ(277.5°)	Φ(285°)Φ(292.5°)	Φ(300°)Φ(307.5°)	Φ(315°)Φ(322.5°)	Φ(330°)Φ(337.5°)	Φ(345°)Φ(352.5°)		
Θ(0°)	-18.49/-18.14	-18.29/-14.42	-16.11/-14.43	-14.67/-15.51	-15.49/-15.78	-15.91/-14.8	-13.53/-13.68	-14.29/-14.82	-15.18/-14.58	-17.77/-17.59	-17.76/-18.55	-18.51/-18.2	-18.06/-18.13	-18.60/-14.72	-13.84/-12.62	-10.94/-9.75	-8.31/-7.68	-7.05/-3.61	-6.49/-4.93	-12.97/-13.97	-10.31/-10.33	-10.44/-18.1	-12.55/-13.89	-18.59/-17.77		
Θ(7.5°)	-18.08/-19.38	-18.09/-16.54	-16.37/-11.58	-9.97/-5.55	-7.69/-7.57	-7.18/-6.4	-6.18	-6.83/-6.97	-7.12/-7.72	-11.70/-12.04	-12.46/-15.86	-18.79/-17.88	-18.53/-19.01	-17.23/-17.1	-16.94/-17.67	-17.22/-18.18	-17.62/-16.48	-16.13/-15.21	-16.49/-14.49	-14.29/-14.54	-16.27/-18.36	-18.03/-19.45	-19.25/-18.45	-18.19/-19.93		
Θ(15°)	-15.41/-15.51	-15.29/-13.15	-11.97/-11.59	-10.24/-9.37	-8.85/-7.73	-7.33/-6.86	-6.58/-6.7	-6.15/-5.92	-5.54/-5.2	-4.9/-5.31	-6.21/-7.82	-10.28/-13.35	-16.24/-16.87	-15.12/-16.69	-19.1/-18.92	-18.31/-12.53	-9.13/-7.66	-6.21/-6.14	-6.41/-6.72	-6.74/-6.36	-5.23/-4.68	-4.86/-5.45	-7.56/-9.15	-11.03/-11.86		
Θ(22.5°)	-13.58/-14.76	-16.27/-15.97	-16.44/-16.24	-14.69/-12.61	-10.04/-7.66	-6.48/-5.39	-5.56/-5.4	-5.39/-5.51	-6.07/-6.17	-5.47/-4.82	-4.82/-6.03	-7.93/-10.17	-12.34/-14.18	-16.88/-18.4	-18.02/-13.78	-10.18/-15	-6.46/-5.79	-6.33/-6.61	-10.23/-12.43	-13.72/-10.84	-9.32/-9.07	-7.97/-8.63	-7.14/-8.67	-8.75/-11.56		
Θ(30°)	-12.31/-14.37	-18.65/-19.09	-18.33/-13.34	-13.73/-15.59	-11.05/-6.52	-4.58/-4	-3.8/-4.11	-4.81/-5.12	-5.52/-6.16	-5.91/-4.73	-4.23/-5.02	-6.01/-6.59	-11.02/-10.46	-11.61/-13.63	-16.18/-13.78	-10.03/-6.76	-5.76/-4.74	-3.91/-4.02	-6.38/-10	-12.34/-11.41	-12.56/-15.6	-16.01/-18.32	-18.13/-13.44	-13.44/-12.84		
Θ(37.5°)	-10.																									



Radiated Composite Gain of 6GHz UNII 7~8

Appendix C

Θ(22.5°)	-17.75/-16.44	-19.23/-18.65	-13.47/-10.12	-7.13/-6.08	-6.22/-6.66	-6.6/-5.7	-4.54/-4.7	-6.26/-7.63	-6.83/-7.14	-9.23/-9.1	-9.25/-13.25	-18.22/-14.49	-10.41/-8.62	-7.49/-8.71	-11.16/-12.16	-12.11/-10.65	-10.01/-10.99	-12.73/-12.56	-11.34/-9.58	-9.99/-11.37	-11.94/-11.59	-12.29/-11.23	-12.35/-13.32	-14.8/-16.7
Θ(30°)	-16.14/-14.38	-18.19/-17.79	-11.79/-8.07	-5.92/-6.16	-6.86/-7.04	-6.24/-5.71	-5.94/-7.2	-8.38/-9.98	-12.12/-11.32	-10.28/-9.18	-10.28/-16.65	-18.24/-15.28	-11.69/-11.43	-13.1/-13.1	-18.05/-13.84	-9.02/-7.98	-7.88/-7.98	-7.05/-6.75	-7.22/-7.98	-6.05/-4.5	-5.75/-8.65	-9.19/-9.99	-11.22/-14.08	-15.71/-19.52
Θ(37.5°)	-13.61/-18.03	-18.75/-19.86	-13.32/-9.15	-6.85/-6.67	-7.02/-7.91	-4.35/-10.4	-10.33/-11.34	-15.03/-17.68	-17.75/-14.77	-13.81/-1.68	-10.82/-14.2	-18.02/-17.87	-11.61/-12.34	-10.26/-17.99	-10.26/-6.09	-7.88/-9.25	-10.62/-1.66	-8.34/-8.25	-7.61/-8.15	-12.42/-16.09	-11.61/-8.05	-7.42/-7.23	-6.8/-5.82	-5.64/-9.09
Θ(45°)	-18.28/-17.59	-19.06/-18.99	-12.58/-9.95	-7.27/-6.24	-7.14/-7.37	-8.59/-10.19	-9.18/-7.65	-7.98/-11.19	-15.38/-17.89	-15.54/-16	-13.8/-13.73	-18.85/-12.22	-9.75/-11.87	-17.2/-18.1	-9.5/-10.88	-9.38/-8.59	-7.41/-7.33	-6.11/-5.93	-6.61/-6.17	-7.84/-6.74	-7.97/-10.51	-13.25/-18.33	-9.36/-7.16	-9.65/-15.07
Θ(52.5°)	-13.33/-16.32	-14.31/-15.17	-10.42/-6.75	-4.94/-4.04	-3.85/-5.32	-7.58/-8.06	-7.68/-6.04	-4.85/-4.58	-8.23/-12.44	-8.99/-10.37	-19.17/-13.29	-11.28/-14.8	-18.93/-18.16	-12.64/-9.18	-14.35/-19.05	-11.32/-9.77	-8.41/-6.72	-5.82/-7.1	-9.07/-9.78	-8.34/-10.45	-12.3/-11.49	-16.9/-18.94	-19.25/-11.42	-14.7/-18.61
Θ(60°)	-15.93/-19.22	-12.89/-12.03	-15.26/-11.64	-8.91/-7.33	-6.17/-6.22	-9.33/-11.83	-10.46/-8.3	-5.55/-5.67	-6.65/-7.88	-10.99/-9.97	-13.78/-18.87	-15.7/-18.97	-15.52/-18.06	-10.07/-10.6	-15.13/-67	-11.37/-10.79	-6.91/-5.38	-4.97/-7.54	-8.35/-9.69	-12.88/-17.53	-14.51/-29.8	-9.99/-10.48	-18.3/-9.03	-11.32/-17.54
Θ(67.5°)	-14.45/-10.7	-10.64/-8.97	-10.97/-7.9	-3.37/-2.44	-3.47/-4.25	-5.48/-6.35	-6.41/-6.09	-5.98/-5.51	-6.49/-8.04	-7.55/-8.47	-16.19/-18.47	-16.17/-18.82	-16.13/-19.43	-15.99/-16.16	-12.93/-8.4	-6.03/-8.93	-8.78/-6.86	-7.43/-10.22	-11.39/-12.05	-16.52/-18.1	-16.5/-15.59	-10.23/-14.3	-17.28/-11.76	-10.64/-19.11
Θ(75°)	-18.68/-18.94	-13.24/-8.82	-12.89/-13.9	-5.25/-4.06	-5.86/-5.12	-3/-3.71	-4.35/-3.34	-4.83/-6.03	-6.8/-7.24	-7.9/-9.92	-14.14/-19.11	-15.28/-14.83	-18.18/-17.74	-18.42/-10.66	-11.39/-9.8	-8.77/-11.7	-8.48/-9.52	-14.93/-18.49	-7.39/-8.2	-8.45/-13.53	-9.85/-17.81	-13/-9.84	-15.39/-16.98	-16.86/-15.04
Θ(82.5°)	-9.98/-17.11	-10.86/-6.31	-7.23/-16.59	-6.99/-3.85	-5.89/-4.66	-3.32/-5.19	-4.78/-4.31	-3.43/-1.98	-3.51/-6.1	-5.59/-9.97	-11.09/-13.4	-14.19/-14.88	-15.22/-14.34	-14.38/-12.73	-15.57/-10.87	-10.25/-14.61	-5.66/-9.62	-14.42/-7.74	-5.66/-4.36	-8.47/-10.17	-8.77/-13.9	-14.69/-18.02	-15.91/-9.64	-9.55/-9.05
Θ(90°)	-15.81/-16.31	-15.54/-6.51	-6.99/-12.77	-7.97/-5.2	-5/-3.3	-2.12/-2.66	-2.29/-3.1	-5.26/-4.13	-5.85/-5.34	-6.45/-10.82	-13.65/-16.97	-17.15/-17.85	-12.42/-11.67	-14.79/-11	-18.8/-9.83	-8.01/-12.29	-4.67/-7.23	-8.68/-3.58	-2.81/-3.36	-9.13/-18.66	-9.4/-5.15	-10.2/-15.34	-18.71/-14.3	-15.48/-11.25
Θ(97.5°)	-8.28/-6.19	-11.17/-16.43	-10.6/-12.62	-9.37/-8.41	-6.54/-4.07	-3.59/-3.36	-2.64/-2.79	-3.23/-3	-7.99/-6.98	-11.37/-11.73	-15.78/-12.34	-17.24/-13.04	-10.16/-12.85	-14.89/-9.41	-17.74/-11.76	-6.36/-11.9	-6.29/-6.3	-12.97/-8.28	-5.51/-4.74	-13.99/-16.6	-8.41/-6.01	-14.9/-9.72	-14.9/-9.72	-10.02/-7.51
Θ(105°)	-7.99/-9.78	-11.02/-18.96	-10.48/-10.21	-13.61/-9.79	-9.72/-7.17	-5.46/-3.78	-3.46/-6.5	-5.12/-5.84	-10.59/-10.2	-9.72/-12.14	-17.54/-7.57	-18.22/-18.59	-18.36/-12.22	-11.22/-18.61	-8.48/-14.06	-9.89/-3.34	-6.91/-11.49	-6.67/-11.7	-7.5/-13.02	-11.81/-18.37	-9.82/-8.89	-11.59/-10.82	-17.71/-9.3	
Θ(112.5°)	-7.64/-7.31	-8.29/-12.95	-11.71/-7.17	-5.75/-5.16	-3.99/-2	-2.55/-3.07	-2.63/-4.16	-7.66/-9.72	-6.74/-5.54	-7.84/-7.59	-4.41/-7.81	-18.63/-6.47	-10.33/-18.47	-12.82/-16.75	-16.06/-9.37	-5.18/-8.15	-5.9/-4.17	-3.97/-10.78	-7.54/-16.59	-8.91/-7.46	-5.7/-11.3	-7.7/-4.65	-6.23/-5.32	-8.15/-10.68
Θ(120°)	-11.59/-17.98	-8.08/-9.51	-17.33/-9.25	-7.49/-7.9	-5.41/-4.23	-3.3/-5.19	-5.66/-8.35	-5.57/-4.87	-7.85/-9.94	-8.84/-10.56	-9.24/-12.86	-18.2/-7.53	-7.33/-10.42	-11.18/-17.15	-9.84/-5.49	-7.4/-2.76	-4.39/-7.69	-5.95/-4.31	-18.77/-9.89	-9.71/-16.59	-8.29/-3.41	-5.54/-6.79	-9.99/-9.08	
Θ(127.5°)	-10.59/-9.13	-8.26/-6.14	-9.88/-8.42	-5.15/-6.85	-7.77/-5.43	-4.31/-4.12	-3.67/-2.38	-4.53/-2.85	-4.31/-4.19	-6.21/-6.62	-10.44/-18.25	-11.53/-12.02	-3.92/-8.87	-6.66/-18.34	-19.41/-6.37	-8.92/-11.36	-6.3/-5.12	-7.67/-11.89	-8.22/-3.85	-17.4/-7.12	-11.46/-12.79	-16.38/-9.75	-12.82/-6.58	-4.66/-6.63
Θ(135°)	-6.4/-4.44	-10.52/-8.41	-6.1/-7.43	-6.25/-2.97	-2.65/-3.16	-2.87/-2.79	-3.23/-2.2	-1.74/-2.94	-2.15/-2.35	-1.7/-3.63	-9.15/-18.29	-10.33/-8.87	-14.37/-8.11	-4.39/-15.92	-15.39/-9.83	-7.8/-11.37	-9.19/-5.82	-7.33/-11.54	-18.42/-10.75	-12.02/-10.54	-14.04/-17.55	-12.12/-11.58	-7.25/-6.23	-8.17/-9.54
Θ(142.5°)	-13.14/-8.92	-5.14/-6.59	-7.38/-6.63	-5.86/-6.66	-4.52/-3.51	-4.19/-5.19	-6.83/-6.68	-10.84/-10.57	-9.15/-6.25	-6.58/-7.92	-11.01/-12.33	-18.04/-19.16	-17.88/-13.48	-11.78/-12.34	-17.08/-19.47	-15.62/-11.29	-8.72/-9.57	-13.3/-10.4	-9.15/-12.15	-18.22/-13.57	-9.89/-6.62	-10.99/-10.86	-9.3/-8.03	
Θ(150°)	-9.15/-10.31	-11.69/-8.8	-7.99/-6.61	-6.83/-7.39	-8.7/-10.48	-10.3/-9.79	-9.85/-10.24	-12.03/-14.71	-15.65/-12.68	-10.89/-9.77	-9.45/-8.85	-9.49/-12.31	-12.58/-11.67	-11.53/-15.56	-6.91/-14.6	-6.13/-8.89	-14.62/-10.94	-14.66/-11.67	-18.72/-11.6	-5.94/-5.7	-7.58/-16.36	-9.86/-7.39	-9.86/-7.39	
Θ(157.5°)	-17.11/-14.84	-8.01/-6.14	-6.86/-6.94	-6.37/-5.84	-4.67/-3.4	-2.67/-2.74	-2.95/-2.83	-2.49/-2.33	-2.87/-3.9	-4.02/-5.05	-6.97/-6.66	-12.89/-16.43	-18.39/-13	-7.29/-6.53	-9.79/-17.14	-13.01/-6.24	-5.14/-6.24	-7.85/-10.82	-15.18/-13.5	-15.33/-17.91	-17.95/-19.12	-19.06/-14.47	-13.33/-10.18	-7.81/-9.94
Θ(165°)	-15.29/-11.35	-8.53/-6.97	-5.37/-3.43	-3.79/-3.65	-3.83/-4.27	-4.54/-4.64	-4.11/-3.53	-2.97/-2.6	-2.32/-2.55	-3.78/-5.52	-6.27/-7.3	-10.37/-14.49	-19.18/-19.3	-19.16/-19.72	-12.46/-10.72	-11.38/-12.37	-16.71/-18.43	-14.21/-13.15	-13.22/-14.48	-19.47/-18.89	-11.45/-9.68	-10.88/-14.34	-17.1/-17.79	-17.51/-16.25
Θ(172.5°)	-13.38/-11.75	-8.86/-7.87	-5.69/-4.11	-3.4/-2.48	-1.58/-9.01	-0.67/-0.54	-0.41/-0.78	-1.28/-1.79	-2.15/-2.63	-2.91/-3.25	-4.01/-5.7	-8.51/-11.94	-14.71/-17.49	-16.49/-15.22	-16.97/-18.99	-19.08/-16.24	-12.49/-12.71	-10.88/-12.88	-12.49/-12.71	-8.65/-8.08	-8.35/-9.43	-11.73/-14.08	-19.51/-19.32	-18.3/-16.19
Θ(180°)	-15.41/-12.7	-10.87/-10.26	-9.48/-8.17	-6.83/-6.595	-5.53/-4.96	-4.54/-4.43	-4.67/-4.56	-4.03/-4.07	-4.71/-5.76	-7.25/-8.46	-9.89/-12.12	-15.68/-18.15	-18.41/-18.62	-19.12/-16.35	-14.04/-12.81	-9.52/-7.7	-5.72/-4.69	-4.69/-4.45	-4.64/-7.3	-5.25/-6.63	-6.25/-7.01	-8.35/-11.28	-16.17/-18.37	
Freq(Hz)	6.695GPol.	ThetaAnt. 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	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°)	-13.6/-13.84	-14.03/-14.04	-13.49/-15.09	-17.44/-16.4	-14.53/-13.21	-12.78/-13.79	-14.77/-13.55	-13.11/-14.11	-15.42/-14.34	-13.53/-12.97	-12.69/-12.28	-11.58/-11.08	-10.41/-9.66	-9.23/-8.88	-9.56/-10.73	-11.65/-12.72	-13.77/-15.13	-16.72/-18.37	-18.04/-16.03	-15.51/-14.3	-12.79/-11.7	-10.95/-10.81	-10.85/-10.18	-10.52/-13.05
Θ(7.5°)	-11/-10.5	-9.78/-9.5	-8.48/-8.72	-8.96/-10.11	-11.47/-13.24	-14.05/-13.92	-14.63/-14.98	-14.66/-13.53	-12.78/-11.98	-11.45/-10.73	-10.36/-10.98	-12.39/-13.3	-13.43/-13.53	-12.56/-14.19	-11.13/-11.1	-10.89/-11.1	-11.72/-13.12	-13.28/-12.62	-12.55/-12.63	-12.37/-11.4	-10.41/-10.94	-10.72/-11.47	-12.01/-10.25	-10.31/-14.4
Θ(15°)	-9.54/-8.22	-6.16/-5.28	-5.06/-5.65	-5.99/-6.69	-8.1/-9.67	-11.85/-13.27	-13.87/-13.79	-12.77/-10.86	-9.58/-9.99	-9.14/-9.6	-11.21/-13.16	-13.71/-13.26	-12.45/-12.61	-10.58/-11.32	-10.58/-10.93	-12.49/-14.98	-18.71/-18.64	-17.47/-18.54	-17.71/-18.56	-18.18/-14.81	-11.72/-11.09	-9.89/-8.29	-7.85/-6.78	-7.18/-8.47
Θ(22.5°)	-5.69/-5.64	-4.29/-3.95	-4.4/-4.86	-5.33/-6.56	-8.11/-10.24	-13.04/-15.39	-16.21/-15.46	-14.97/-14.09	-13.58/-11.42	-9.99/-9.9	-11.14/-12.6	-12.06/-10.67	-10.89/-13.04	-14.91/-14.45	-15.1/-18.67	-18.72/-17.05	-12.13/-9.14	-7.59/-7.1	-7.04/-7.96	-8.74/-8.94	-8.26/-8.9	-11.36/-10	-8.32/-6.55	-5.73/-4.81
Θ(30°)	-5.64/-5.75	-4.28/-3.73	-3.98/-4.77	-5.21/-5.93	-6.71/-7.45	-7.45/-8.22	-10.56/-13.06	-12.44/-12.49	-14.56/-15.26	-12.57/-11.75	-10.54/-9.1	-9.16/-11.15	-14.89/-18.19	-17.14/-15.14	-16.84/-18.33	-19.02/-16.39	-12.1/-10.37	-10.16/-11.81	-15.28/-16.86	-15.16/-12.08	-10.39/-9.65	-9.35/-10.96	-12.08/-10.04	-6.3/-4.9
Θ(37.5°)	-6.35/-4.87	-4.61/-3.71	-2.83/-2.57	-2.78/-3.59	-4.38/-5.58	-8.15/-11.67	-14.82/-16.26	-15.07/-12.4	-13.42/-17.98	-15.38/-12.29	-11.38/-14.01	-17.48/-18.01	-12.81/-13.12	-16.05/-14.82	-18.52/-18.59	-14.28/-11.1	-10.66/-14.43	-13.8/-12.7	-10.77/-7.58	-6.13/-6.78	-8.6/-8.4	-6.31/-5.88	-5.64/-8.88	-11.77/-6.4
Θ(45°)	-4.65/-3.32	-4.75/-3.49	-0.88/-0.51	-1.15/-1.91	-2.92/-4.71	-7.63/-9.38	-10.85/-13.29	-17.25/-18.02	-18.55/-18.5	-19.34/-18.55	-18.22/-14.93	-18.99/-17.85	-15.76/-15.08	-18.12/-18.8	-13.93/-14.05	-16.71/-16.15	-14.5/-14.53	-13.11/-8.55	-6.37/-6.77	-5.93/-4.79	-4.54/-4.45	-4.81/-3.25	-2.68/-1.27	-3.7/-8.4
Θ(52.5°)	-4.99/-2.38	-3.12/-3.16	-1.81/-2.6	-4.11/-4.73	-4.72/-4.93	-5.61/-5.48	-5.86/-6.19	-7.08/-10.28	-15.48/-14.63	-11.64/-19.23	-16.53/-8.38	-9.75/-18.95	-18.51/-14.44	-14.51/-7.08	-16.84/-14.95	-16.84/-17	-17.84/-18.09	-15.41/-17.39	-18.63/-11.94	-7.74/-8.02	-6.44/-4.46	-5.38/-5.29	-3.61/-2.91	-1.34/-5.79
Θ(60°)	-3.96/-3.85	-3.42/-1.12	-0.83/-1.78	-2.99/-5.4	-7.46/-6.18	-6.44/-7.53	-7.73/-8.65	-9.74/-11.35	-14.44/-16.05	-14.57/-15.4	-18.24/-12.35	-9.93/-11.65	-12.71/-19	-9.52/-9.18	-10.58/-8.42	-11.08/-11.9	-9.07/-10.77	-8.47/-7.63	-9.31/-8.79	-9.88/-10.58	-9.4/-8.61	-6.56/-4.77	-2.81/-0.3	1.52/-0.33
Θ(67.5°)	-5.29/-7	-4.05/-1.88	-2.7/-3.21	-2.6/-3.68	-5.38/-4.54	-3.69/-3.07	-3.16/-3.25	-4.02/-5.26	-9.19/-14.56	-11.79/-18.95	-10.63/-8.93	-11.47/-11.59	-14.51/-16.05	-12.29/-11.13	-9.55/-8.									



Radiated Composite Gain of 6GHz UNII 7~8

Appendix C

Θ(60°)	-3.35/-6.03	-7.52/-5.28	-4.68/-4.04	-7.14/-9.66	-12.34/-18.71	-18.09/-15.32	-15.99/-17.48	-16.81/-16.29	-15.15/-12.83	-8.88/-6.18	-5.07/-4.72	-4.36/-6.44	-6.06/-7.06	-11.24/-17.55	-16.74/-14.6	-18.43/-18.83	-16.72/-15.28	-14.92/-14.96	-16.73/-12.66	-11.03/9.34	-9.2/-2.28	-7.73/-10.03	-6.29/-4.09	-2.28/-3.34
Θ(67.5°)	-5.08/-6.23	-4.41/-3.66	-4.31/-6.44	-8.38/-12.03	-13.31/-15.72	-13.82/-13.95	-12.45/-12.27	-13.06/-13.19	-11.02/-8.89	-5.49/-3.88	-3.56/-6.06	-5.17/-7.1	-9.21/-9.57	-9.3/-11.07	-12.6/-15.47	-12.76/-13.59	-11.13/-13.48	-11.82/-14.69	-14.23/-11.72	-10.93/-8.68	-9.14/-9.77	-8.34/-6.58	-6.4/-1.47	-2.84/-2.59
Θ(75°)	-5.46/-3.83	-2.77/-2.15	-4.43/-9.22	-15.02/-12.17	-12.14/-17.93	-16.43/-14.72	-13.32/-10.78	-9.94/-13.16	-11.95/-9.87	-8.5/-6.18	-5.83/-6.24	-6.32/-10.56	-13.68/-14.95	-11.91/-11.88	-15.53/-14.68	-15.42/-12.87	-11.72/-10.03	-10.98/-12.84	-12.89/-11.54	-9.76/-7.69	-6.36/-7.95	-8.57/-7.11	-5.06/-4.69	-3.41/-4.75
Θ(82.5°)	-7.18/-4.13	-4.03/-5.2	-7.88/-18.42	-12.4/-8.99	-15.32/-16.17	-16.15/-17.01	-13.13/-15.18	-18.86/-19.26	-9.7/-11.04	-10.47/-10.19	-12.48/-18.82	-18.69/-14.28	-13.86/-11.63	-13.41/-9.64	-9.12/-10.25	-11.51/-8.83	-9.39/-8.35	-10.72/-12.91	-10.32/-12.52	-10.8/-7.71	-6.41/-5.18	-5.69/-7.79	-6.27/-4.8	-6.74/-7.29
Θ(90°)	-6.15/-3.05	-4.44/-7.97	-11.8/-9.31	-7.56/-10.34	-18.28/-19.13	-18.11/-14.53	-9.44/-8.12	-11.72/-14.02	-8.47/-8.39	-6.79/-8.28	-9.89/-12.92	-19.21/-10.29	-8.44/-7.83	-8.82/-14.33	-11.92/-9.33	-11.17/-11.2	-16.88/-18.97	-17.15/-14.03	-8.56/-11.31	-11.56/-8.37	-6.46/-6.4	-5.43/-8.18	-8.3/-6.19	-9.18/-7.73
Θ(97.5°)	-4.4/-2.6	-5.23/-8.5	-7.79/-5.57	-7.56/-13.44	-18.28/-12.07	-11.24/-14.05	-9.62/-7.1	-6.68/-7.58	-7.94/-6.31	-6.63/-6.64	-7.15/-9.54	-10.3/-6.6	-8.05/-9.67	-6.58/-13.96	-12.66/-10.87	-11.83/-18.86	-18.82/-16.93	-15.72/-9.88	-12.82/-9.79	-11.16/-15.84	-10.92/-9.37	-5.37/-4.48	-4.15/-3.78	-7.02/-6.5
Θ(105°)	-4.01/-5.94	-7.87/-15.08	-6.2/-4.78	-6.63/-11.54	-13.51/-10.89	-11.59/-15.31	-8.71/-6.66	-6.7/-7.26	-12.03/-12.46	-13.33/-10.86	-8.56/-9.64	-12.02/-12.4	-10.69/-9.39	-6.67/-9.17	-15.35/-19.34	-17.55/-18	-14.72/-13.04	-17.97/-14.65	-15.75/-15.86	-11.62/-9.98	-10.89/-7.37	-6.55/-5.72	-6.03/-4.82	-4.9/-7.3
Θ(112.5°)	-5.23/-8.44	-8.83/-8.75	-4.5/-3.05	-5.41/-12.93	-10.43/-12.47	-16.17/-17.97	-12.92/-8.3	-9.7/-15.93	-13.17/-17.23	-18.88/-18.2	-19.27/-18.74	-16.94/-18.39	-18.18/-18.34	-16.88/-17.99	-19.41/-15.51	-16.32/-14.87	-18.49/-18.55	-15.57/-19.63	-18.81/-19.69	-15/-11.98	-10.85/-11.03	-7.77/-6.2	-4.1/-4.08	-3.53/-4.49
Θ(120°)	-11.01/-12.28	-8.01/-7.12	-5.24/-4.95	-4.45/-11.02	-10.75/-9.56	-13.33/-16.01	-14.51/-17.36	-15.6/-12.21	-10.52/-11.39	-13.53/-18.63	-19.27/-13.58	-9.51/-10.21	-10.89/-8.41	-15.86/-8.95	-10.77/-15.13	-11.19/-13.39	-14.39/-18.18	-17.49/-17.29	-17.35/-18.49	-18.83/-11.01	-12.46/-9.93	-11.03/-7.76	-1.46/-5.55	-5.32/-9.45
Θ(127.5°)	-4.14/-0.78	-1.55/-0.86	-3.31/-2.71	-9.28/-10.51	-11.32/-12.12	-10.84/-16.41	-18.93/-18.52	-16.08/-12.6	-13.11/-15.36	-15.16/-11.93	-9.81/-7.15	-7.27/-6.6	-11.65/-9.16	-10.72/-6.42	-15.73/-18.43	-10.45/-11.51	-12.05/-18.7	-15.55/-17.36	-15.99/-19.1	-15.16/-12.24	-11.35/-14.88	-17.5/-5.13	-2.88/-1.7	-5.28/-2.96
Θ(135°)	-3.66/-2.22	-1.39/-1.72	-2.43/-4.97	-4.77/-8.05	-10.65/-18.59	-16.61/-12.53	-13.34/-19.18	-18.94/-15.84	-13.74/-18.48	-18.2/-13.02	-8.05/-8.23	-9.63/-7.65	-8.22/-11.77	-10.31/-13.32	-15.2/-9.24	-4.83/-6.6	-6.11/-18.61	-18.07/-15.97	-18.72/-17.31	-16.02/-13.4	-8.91/-10.45	-8.66/-13.68	-5.21/-3.9	-4.25/-3.54
Θ(142.5°)	-7.63/-5.78	-2.82/-2.68	-6.23/-8.26	-6.56/-4.77	-6.88/-10.76	-10.21/-9.52	-9.64/-12.31	-13.74/-17.76	-18.16/-15.48	-14.64/-14.23	-14.5/-17.49	-8.4/-14.87	-15.44/-18.38	-12.86/-6.16	-12.56/-7.2	-10.44/-18.93	-17.66/-15.61	-19.25/-15.09	-14.42/-13.52	-11/-9.47	-9.91/-6.19	-2.51/-2.78	-6.38/-6.74	
Θ(150°)	-5.16/-3.46	-4.71/-6.16	-8.36/-11.73	-15.21/-16.5	-15.92/-14.66	-15.48/-17.62	-17.66/-17.53	-17.99/-18.49	-18.48/-14.2	-14.11/-15.79	-17.11/-17.89	-19.07/-18.55	-17.26/-14.2	-17.44/-18.88	-8.6/-5.55	-9.01/-16.49	-19.08/-17.37	-14.85/-11.47	-12.07/-17.43	-17.27/-18.6	-17.87/-11.74	-5.18/-5.34	-5.41/-7.93	-12.94/-10.27
Θ(157.5°)	-1.83/-0.27	-1.44/-4.39	-5.24/-9.33	-9.01/-15.08	-19.34/-18.01	-18.91/-19.02	-18.82/-18.18	-17.93/-18.87	-18.98/-17.74	-18.01/-18.05	-10.8/-9.16	-7.44/-6.11	-7.84/-11	-10.04/-14.18	-17.95/-15.71	-17.95/-15.37	-15.47/-18.15	-19.15/-19.44	-18.12/-19.67	-13.58/-11.17	-8.26/-8.08	-11.27/-9.91	-6.46/-5.46	
Θ(165°)	-6.37/-5.78	-4.98/-6.03	-8.11/-12.12	-14.34/-15.14	-16.63/-16.93	-15.91/-17.9	-18.48/-18.67	-17.13/-17.47	-18.29/-19.55	-18.21/-14.13	-11.17/-9.48	-9.26/-8.91	-8.36/-82	-8.74/-10.92	-14.15/-14.59	-12.04/-11.44	-11.2/-10.92	-11.31/-12.29	-12.21/-11.46	-11.5/-11.89	-13.3/-15.08	-10.95/-18.69	-16.76/-13.15	-11.56/-9.47
Θ(172.5°)	-13.93/-13.61	-12.18/-13.86	-16.44/-15	-16.94/-17.95	-18.4/-18.39	-18.98/-18.71	-18.9/-18.18	-18.24/-19.2	-18.49/-17.96	-17.82/-18.93	-16.08/-13.92	-12.29/-11.01	-10.32/-9.84	-9.49/-8.74	-8.03/-6.91	-6.69/-6.68	-7.5/-8.52	-10.4/-11.89	-12.31/-12.8	-12.18/-12.17	-12.34/-13.34	-12.85/-11.51	-10.53/-11.98	-14.63/-14.01
Θ(180°)	-17.97/-17.7	-16.77/-15.4	-16.67/-18.07	-18.42/-17.8	-18.15/-18.64	-18.99/-18.36	-17.98/-16.91	-15.67/-15.51	-14.97/-13.11	-11.83/-11.38	-11.47/-11.91	-12.61/-12.85	-12.29/-11.86	-11.74/-12.18	-13.21/-15.54	-18.97/-17.23	-17.78/-18.16	-18.91/-18.76	-19.28/-17.2	-16.63/-15.11	-14.02/-13.77	-11.32/-10.42	-10.55/-10.94	-10.38/-13.65
Freq(Hz)	6.995GPol.	Theta/Ant. 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°)	-11.23/-10.58	-10.16/-9.58	-7.77/-6.69	-6.19/-8.52	-5.68/-5.19	-4.82/-4.57	-4.28/-4.6	-5.16/-6.01	-6.69/-7.35	-8.16/-8.72	-8.83/-9.64	-9.84/-9.86	-6.63/-9.32	-8.55/-9.75	-6.89/-6.27	-5.39/-5.08	-4.72/-4.56	-4.59/-4.82	-4.86/-4.86	-5.02/-4.57	-6.29/-6.97	-7.56/-8.9	-11.65/-12.32	-11.46/-13.32
Θ(7.5°)	-9.11/-8.51	-7.71/-7.48	-6.25/-5.73	-5.14/-6.11	-4.44/-4.18	-3.85/-3.77	-3.73/-9.86	-4.45/-5.11	-5.76/-6.4	-7.11/-7.56	-8.41/-9.81	-11.26/-12.36	-11.72/-12.32	-11.51/-10.42	-9.39/-8.31	-7.52/-6.58	-6.35/-7.9	-5.66/-5.06	-4.8/-4.93	-5.05/-5.89	-7/-7.59	-8.71/-9.83	-10.97/-10.32	-9.93/-9.98
Θ(15°)	-7.44/-7.36	-7.69/-6.88	-5.9/-5.1	-4.31/-4.03	-3.49/-2.87	-2.89/-3.11	-3.27/-3.97	-4.39/-5.45	-5.96/-6.15	-6.21/-6.49	-7.41/-8.84	-11.14/-12.87	-14.04/-14.15	-14.33/-13.6	-12.84/-11.24	-9.18/-7.46	-6.45/-5.66	-5.2/-5.02	-4.75/-4.54	-4.93/-5.57	-6.33/-7.06	-7.76/-8.7	-8.8/-8.16	-7.9/-7.5
Θ(22.5°)	-6.21/-6.28	-5.69/-5.26	-5.31/-5.38	-5.16/-4.59	-3.77/-3.57	-3.57/-3.1	-3.85/-4.18	-5.24/-6.66	-7.53/-7.45	-7.14/-7.68	-9.17/-12.94	-13.89/-15.1	-15.49/-17.94	-18.02/-18.21	-17.75/-12.77	-9.99/-8.4	-7.1/-7.75	-7.67/-7.14	-6.86/-6.81	-7.35/-8.48	-10.32/-10.58	-10.3/-9.46	-6.71/-7.4	-6.86/-6.35
Θ(30°)	-8.62/-6.22	-5.48/-4.73	-4.55/-6.62	-5.23/-8.34	-3.31/-3.28	-2.7/-2.6	-2.69/-3.54	-4.06/-5.13	-7.04/-8.47	-8.67/-9.09	-9.61/-11.1	-13.52/-16.36	-17.72/-18.35	-18.34/-18.58	-17.54/-18.68	-14.98/-11.74	-10.29/-10.38	-10.85/-11.44	-11.91/-12.51	-13.7/-17	-17.27/-18.35	-11.11/-8.7	-7.07/-8.02	-9.18/-9.03
Θ(37.5°)	-6.56/-5.71	-5.56/-6.21	-6.38/-6.61	-6.77/-4.74	-2.49/-1.37	-1.11/-1.32	-1.48/-1.28	-1.18/-1.73	-3.23/-5.32	-8.65/-10.94	-10.84/-12.51	-13.2/-14.07	-18.15/-19.03	-18.75/-17.66	-17.54/-12.95	-8.71/-8.34	-8.92/-9.77	-12.44/-17.93	-18.9/-19.03	-17.23/-18.09	-17.93/-18.65	-17.91/-16.59	-10.35/-7.92	-7.25/-7.53
Θ(45°)	-6.83/-6.36	-6.74/-6.07	-6.98/-8.73	-7/-4.46	-2.75/-2.14	-2.13/-2.63	-2.35/-1.94	-1.52/-0.93	-1.06/-2.27	-4.47/-7.49	-6.93/-8.65	-8.91/-10.9	-14.43/-14.07	-18.25/-18.53	-15.87/-8.7	-6.97/-7.21	-8.32/-12.39	-16.95/-17.56	-15.28/-13.74	-15.54/-14.46	-15.32/-15.94	-18.53/-18.46	-13.57/-8.96	-5.71/-5.21
Θ(52.5°)	-6.96/-6.64	-4.92/-5.5	-5.63/-8.73	-7.24/-2.95	-1.87/-2.84	-3.53/-3.86	-3.62/-6.3	-1.64/-1.49	-2.42/-4.12	-6.55/-8.63	-5.82/-6.11	-5.6/-11.33	-1.34/-10.93	-18.18/-17.93	-15.8/-10.25	-10.77/-11.36	-12.61/-18.38	-18.68/-15.58	-19.11/-16.22	-11.23/-10.41	-10.19/-9.25	-9.91/-13.57	-14.08/-14.03	-7.46/-6.66
Θ(60°)	-5.52/-6.4	-6.64/-5.07	-5.22/-7.99	-6.37/-3.93	-4.13/-6.39	-5.31/-2.57	-1.15/-0.99	-1.73/-2.95	-5.02/-7.06	-7.02/-6.03	-4.31/-4.63	-4.67/-8.77	-11.49/-9.84	-17.87/-18.46	-13.96/-8.38	-11.53/-9.66	-16.49/-18.88	-15.82/-11.86	-9.69/-11.28	-11.51/-11.72	-6.5/-5.8	-4.87/-8.58	-11.25/-15.4	-11.8/-8.58
Θ(67.5°)	-4.93/-5.68	-5.21/-3.65	-6.28/-10.62	-6.86/-4.87	-5.85/-4.15	-1.51/-0.92	-0.36/-0.23	-0.77/-1.8	-3.94/-4.45	-4.01/-4.12	-4.71/-4.92	-4.29/-6.08	-8.25/-12.97	-14.77/-18.21	-10.43/-10.53	-9.07/-14.43	-17.15/-18	-9.87/-7.69	-7.07/-8.16	-10.16/-11.98	-8.49/-8.22	-7.41/-7.89	-6.65/-11.2	-13.26/-6.57
Θ(75°)	-4.48/-5.83	-4.95/-4.67	-6.23/-10.86	-5.4/-5.45	-6.01/-2.7	-0.85/-1.3	-2.01/-1.12	-0.62/-0.5	-1.36/-2.49	-3.09/-4.23	-5/-7.41	-4.38/-7.07	-8.69/-11.37	-10.03/-11.48	-8.35/-9.94	-9.86/-6.99	-9.2/-17.35	-16.2/-8.2	-6.76/-7.73	-7.05/-9.3	-9.34/-6.96	-5.19/-7.93	-7.87/-8.34	-6.54/-5.66
Θ(82.5°)	-3.4/-6.17	-5.99/-5.79	-6.98/-10.09	-5.52/-6.04	-3.69/-1.37	-2.74/-5.9	-3.5/-1.67	-0.050/38	-0.59/-4.34	-4.38/-4.8	-5.37/-10.2	-6.32/-9.37	-6.66/-10.36	-11.05/-9.57	-6.4/-10.17	-8.24/-7.82	-12.68/-17.11	-17.6/-14.39	-6.38/-9.28	-9.85/-8.74	-12.27/-9.26	-7.98/-7.74	-7.99/-7.36	-5.3/-5.48
Θ(90°)	-8/-8.81	-7.44/-5.61	-8.31/-16.8	-8.33/-5.9	-3.95/-3.53	-6.49/-8.29	-5.49/-7.2	-0.57/-0.07	0.53/-2.99	-3.04/-4.16	-5.36/-9.15	-10.07/-12.4	-10.39/-15.68	-11.2/-6.63	-6.12/-6.04	-1.37/-3.36	-3.56/-10.91	-15.43/-11.28	-9.43/-8.2	-8.25/-5.49	-8.93/-6.85	-7.44/-9.39	-9/-9.32	-5.01/-4.86
Θ(97.5°)	-7.58/-4.68	-6.39/-6.3	-9.23/-13.03	-7.25/-6.22	-6.66/-6.15	-10.32/-8.03	-6.36/-3.83	-1.79/-0.86	-0.14/-3.67	-3.93/-4.45	-2.65/-6.63	-6.5/-8.7	-6.85/-16.29	-11.5/-10.8	-15.7/-5.93	-0.680/55	-1.91/-8.69	-4.59/-6.57	-2.49/-6.08	-2.89/-4.74	-2.03/-4.21	-5.71/-8.96	-3.73/-2.17	-4.25/-5.75
Θ(105°)	-6.58/-7.25	-3.01/-5.02	-7.96/-13.58	-6.89/-6.65	-9.44/-9.37	-11.87/-14.67	-11.25/-6.92	-4.52/-2.63	-3.53/-8.01	-10.68/-16	-2.96/-6.55	-6.54/-8.36	-6.9/-9.95	-6.94/-15.4	-18.23/-15.34	-3.810/34	-0.91/-5.26	-4.6/-5						



Radiated Composite Gain of 6GHz UNII 7~8

Appendix C

Θ(105°)	-13.51/-15.62	-18.91/-10.34	-6.17/-5.97	-10.28/-10.71	-4.78/-3.88	-1.99/-3.72	-4.08/-4.13	-3.53/-2.55	-3.26/-4.5	-7.04/-6.68	-7.16/-6.78	-10.52/-18.87	-18.13/-15.88	-12.83/-10.85	-11.62/-12.12	-14.62/-13.34	-8.1/-9.36	-8.03/-5.37	-5.65/-7.68	-18.48/-8.02	-7.5/-18.07	-7.46/-7.05	-6.04/-9.18	-12/-17.93	
Θ(112.5°)	-13.2/-14.52	-15.41/-13.57	-8.92/-8.8	-8.45/-6.91	-5.64/-2.6	-3.42/-3.87	-5.65/-4.83	-2.69/-3.91	-3.52/-4.36	-5.38/-6.09	-7.26/-9.07	-12.77/-17.5	-17.97/-11.56	-6.98/-8.04	-11.47/-8.88	-9.38/-12.1	-15.63/-17.38	-5.72/-7.44	-12.61/-15.54	-10.92/-7.72	-13.41/-11.19	-5.56/-6.49	-8.76/-10.6	-10.71/-15.96	
Θ(120°)	-8.84/-8.75	-11.3/-13.57	-11.7/-9.71	-10.61/-12.15	-10.12/-7.67	-4.59/-3.22	-2.65/-3.72	-4.75/-5.17	-3.91/-5.18	-6.78/-6.06	-9.77/-14.33	-17.9/-16.16	-13.75/-15.52	-9.31/-8.3	-7.99/-7.82	-11.03/-12.37	-17.47/-18.82	-16.68/-11.72	-11.32/-7.04	-8.16/-12.78	-18.31/-19.19	-12.47/-7.81	-5.18/-6.03	-11.83/-14.3	
Θ(127.5°)	-10.09/-10.73	-9.12/-6.49	-5.49/-4.44	-4.51/-7.58	-8.71/-4.76	-4.15/-4.04	-4.03/-4.47	-4.9/-6.22	-9.69/-8.12	-5.79/-7.38	-11.28/-18.65	-16.61/-11.75	-11.15/-10.64	-10.21/-10.13	-12.62/-16.01	-18.99/-17.47	-17.81/-9.93	-9.42/-11.48	-14.37/-13.3	-15.65/-13.13	-10.78/-11.54	-8.37/-6.89	-4.69/-5.38	-10.36/-10.99	
Θ(135°)	-10.71/-9.12	-6.07/-3.4	-2.11/-2.5	-4.06/-4.44	-6.2/-6.06	-3.93/-2.36	-1.85/-2.04	-3.04/-4.03	-4.93/-5.53	-5.88/-6.42	-6.61/-11.69	-18.77/-11.74	-9.06/-9.2	-8.57/-8.85	-11.89/-9.91	-7.49/-12.48	-13.65/-18.4	-18.6/-14.88	-18.62/-14.9	-18.72/-13.6	-10.23/-8.73	-8.28/-7.97	-8.42/-12.49	-16.39/-12.21	
Θ(142.5°)	-9.02/-6.61	-5.57/-6.44	-5.25/-5.28	-5.67/-6.87	-9.51/-9.26	-7.29/-5.76	-4.33/-2.65	-1.34/-1.8	-3.06/-3.52	-3.91/-5.82	-8.5/-9.08	-9.48/-10.16	-12.28/-13.53	-10.55/-14.53	-16.9/-10.01	-10.84/-10.83	-11.56/-14.34	-10.5/-8.5	-11.24/-12.45	-14.21/-18.76	-17.35/-11.04	-7.31/-6.67	-10.32/-15.17	-13.02/-10.78	
Θ(150°)	-10.58/-6.82	-5.6/-5.84	-7.07/-8.33	-8.43/-8.45	-9.09/-10.05	-11.18/-9.85	-8.15/-8.08	-9.03/-7.57	-5.1/-4.52	-4.96/-4.92	-5.61/-7.65	-12.77/-14.35	-13.15/-17.63	-16.55/-11.96	-13.77/-18.02	-17.86/-13.21	-17.33/-18.82	-18.38/-19.15	-19.2/-12.81	-9.02/-12.02	-10.77/-7.23	-5.31/-5.72	-7.85/-8.5	-8.99/-9.5	
Θ(157.5°)	-8.58/-9	-10.97/-13.81	-14.3/-12.44	-10.69/-8.91	-6.89/-5.17	-4.38/-4.25	-3.89/-3.82	-4.13/-4.6	-5.39/-6.58	-8.62/-9.33	-7.64/-7.53	-8.54/-11.09	-14.88/-17.55	-19.12/-17.22	-17.95/-18.57	-18.68/-14.92	-14.6/-18.03	-17.72/-18.96	-19.21/-17.93	-16/-16.47	-8.46/-5.63	-5.55/-7.79	-11.11/-10.1	-7.57/-7.65	
Θ(165°)	-11.03/-13.25	-16.64/-18.51	-16.45/-11.93	-9.32/-8.46	-8.66/-9.02	-9.32/-9.42	-9.32/-9.42	-10.07/-10.48	-9.92/-7.98	-6.47/-6.24	-6.66/-7.43	-7.96/-8.52	-9.5/-11.37	-14.23/-17.73	-17.99/-17.35	-14.39/-10.98	-8.41/-8	-8.94/-9.54	-9.74/-10.76	-12.84/-14.1	-15.04/-16.23	-14.5/-13.04	-13.32/-14.44	-12.94/-10.87	-10.46/-11.26
Θ(172.5°)	-18.58/-18.9	-18.86/-14.94	-10.98/-8.54	-6.75/-5.2	-4.15/-3.94	-3.81/-3.53	-3.12/-3.29	-4.14/-4.87	-4.79/-5.11	-6.27/-7.38	-8.34/-9.96	-12.28/-16.03	-17.49/-18.43	-17.7/-17.95	-17.47/-17.91	-17.42/-19.04	-17.31/-18.16	-18.01/-18.23	-18.75/-17.43	-17.79/-15.37	-12.83/-12.69	-12.96/-13.04	-13.71/-14	-15.83/-18.51	
Θ(180°)	-17.35/-18.35	-19.03/-18.32	-18.16/-13.85	-10.41/-8.91	-8.21/-7.61	-7.26/-6.35	-5.45/-4.92	-5.11/-5.22	-5.34/-6.11	-7.26/-8.66	-10.34/-11.96	-13.7/-15.2	-15.93/-15.19	-14.28/-13.93	-13.09/-11.61	-9.36/-7.59	-6.49/-6.28	-5.82/-4.87	-4.52/-4.91	-5.91/-6.55	-7.04/-7.41	-7.95/-8.86	-10.03/-11.39	-13.03/-15.51	
Freq(Hz)	6.995GPol.	Theta/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°)	-5.47/-5.48	-5.81/-6.44	-7.88/-8.6	-9.58/-10.06	-10.71/-11.45	-11.85/-11.71	-11.3/-12.01	-12.47/-11.75	-10.28/-9.45	-8.99/-8.24	-7.69/-7.61	-7.9/-8.14	-8.19/-8.61	-9.35/-10	-11.6/-12.89	-14.43/-18.29	-18.22/-18.37	-17.44/-16.03	-13.93/-12.59	-11.11/-9.51	-8.13/-7.05	-6.6/-6.39	-5.56/-5.2	-5.07/-4.94	
Θ(7.5°)	-9.44/-9.78	-11.19/-12.2	-15.49/-17.59	-18.61/-17.34	-18.99/-18.8	-16.93/-14.98	-10.97/-9.81	-8.44/-7.18	-6.14/-5.18	-4.79/-4.77	-4.55/-5.02	-5.62/-6.29	-6.73/-7.29	-8.31/-9.94	-11.06/-12.37	-14.48/-11.2	-10.34/-10.26	-9.27/-11.01	-15.04/-16.23	-14.5/-13.04	-13.32/-14.44	-12.94/-10.87	-10.46/-11.26	-8.61/-9.12	
Θ(15°)	-14.51/-16.69	-19.28/-18.32	-15.05/-13.04	-12.06/-12.14	-12.27/-12.1	-12.5/-12.3	-11.75/-10.4	-8.91/-7.87	-7.06/-5.62	-4.28/-3.78	-3.59/-3.53	-3.14/-2.54	-2.67/-3.52	-4.43/-5.89	-7.82/-10.19	-12.24/-13.48	-14.5/-17.48	-17.6/-15.71	-15.96/-17.66	-16.12/-13.97	-12.84/-11.7	-12.17/-13.94	-12.74/-12.78	-14.48/-15.48	
Θ(22.5°)	-18.42/-17.98	-17.18/-13.52	-10.5/-9.85	-10.24/-11.99	-12.81/-16.15	-18.31/-19.31	-18.6/-13.72	-9.67/-7.92	-7.14/-6.02	-4.59/-3.1	-2/-1.44	-0.91/-0.74	-1.06/-1.36	-1.62/-2.61	-4.51/-6.18	-7.42/-8.71	-10.02/-10.21	-9.14/-9.19	-7.73/-9.04	-11.6/-16.54	-18.28/-18.7	-15.73/-14.41	-14.87/-14.81	-15.31/-16.33	
Θ(30°)	-14.66/-18.04	-12.84/-9.24	-8.81/-10.56	-12.44/-13.36	-13.61/-14.27	-13.65/-13.48	-15.44/-17.9	-15.68/-11.6	-8.91/-5.68	-4/-2.45	-0.77/-0.35	1.071/39	1.461/49	0.969/-7.9	-6.77/-7.53	-5.79/-5.45	-6.71/-7.48	-8.61/-8.51	-7.31/-8.92	-11.89/-16.35	-19.66/-14.26	-14.1/-13.1	-17.9/-19	-16.17/-15.44	
Θ(37.5°)	-11.88/-18.13	-15.6/-13.03	-15.98/-19.19	-17.78/-18.58	-17.72/-18.74	-18.08/-15.83	-12.49/-9.8	-7.87/-6.5	-5.56/-4.57	-2.99/-0.77	1.192/-11	2.011/16	0.981/13	1.01/-0.84	-2.75/-5.03	-6.14/-9.27	-11.61/-13.49	-12.55/-10.7	-8.98/-9.04	-11.53/-14.45	-17.31/-18.33	-11.01/-11.14	-11.86/-10.65	-8.86/-8.11	
Θ(45°)	-14.53/-12.24	-18.72/-18.08	-15.57/-15.78	-18.44/-18.88	-17.72/-18.21	-17.68/-15.64	-10.2/-6.55	-3.86/-2.45	-2.05/-2.55	-3.08/-2.19	-0.21/-37	1.571/35	1.441/49	0.969/-7.9	-6.77/-7.53	-5.79/-5.45	-6.71/-7.48	-8.61/-8.51	-7.31/-8.92	-11.89/-16.35	-19.66/-14.26	-14.1/-13.1	-17.9/-19	-16.17/-15.44	
Θ(52.5°)	-8.54/-10.58	-10.19/-10.02	-11.67/-11.76	-11.27/-9.37	-9/-10.26	-14.99/-18.06	-10.61/-6.9	-3.89/-1.22	0.21/-0.42	-6.26/-15.4	0.090/68	-0.47/-0.87	-0.18/-0.16	-3.12/-7.55	-8.39/-5.96	-4.76/-5.19	-5.32/-5.04	-3.62/-5.43	-7.47/-9.17	-11.44/-13.05	-13.69/-13.93	-13.2/-15.25	-16.33/-17.35	-18.95/-16.37	
Θ(60°)	-14.54/-15.24	-14.95/-14.52	-18.7/-13.02	-8.16/-8.39	-9.24/-10.61	-11.71/-15.39	-18.68/-12.16	-5.61/-2.61	-1.29/-0.93	-2.16/-4.58	-2.58/-0.94	-0.9/-1.28	-1.72/-3.23	-5.8/-6.62	-8.57/-6.38	-6.77/-5.58	-3.71/-2.08	-2.4/-3.44	-8.09/-14.97	-13.68/-10.03	-9.09/-9.87	-12.66/-17.83	-18.32/-10.77	-14.61/-18.66	
Θ(67.5°)	-13.18/-15.99	-10.74/-11.93	-18.21/-15.41	-8.08/-6.69	-7.86/-9.86	-10.05/-10.41	-13.23/-14.33	-11.99/-7.05	-3.94/-3.12	-4.67/-5.86	-1.69/-10.6	-1.38/-1.53	-2.82/-4.61	-4.83/-4.44	-6.17/-6.15	-5.41/-3.46	-5.91/-4.99	-3.97/-4.29	-9.02/-18.24	-14.9/-8.41	-6.24/-6.1	-9.46/-15.2	-15.82/-12.65	-16.13/-15.44	
Θ(75°)	-14.55/-12.72	-8.37/-6.88	-16.51/-8.87	-4.78/-4.49	-6.45/-7.45	-5.19/-4.82	-5.68/-8.88	-5.74/-6.34	-5.15/-4.77	-4.55/-5.84	-2.84/-1.32	-1.92/-1.9	-2.93/-4.7	-6.73/-9.94	-4.17/-2.86	-2.43/-5.14	-7.07/-9.86	-3.76/-4.13	-10.16/-18.18	-11.01/-8.41	-17.6/-6.53	-15.85/-14.69	-18.96/-16.77	-13.35/-10.24	
Θ(82.5°)	-9.77/-12.06	-7.46/-6.04	-8.11/-6.17	-2.68/-2.85	-4.18/-5.15	-4.56/-5.05	-4.67/-4.5	-6.38/-4.37	-4.19/-4.47	-7.91/-7.15	-4.07/-4.78	-3.92/-3.67	-5.86/-6.83	-7.71/-5.72	-4.77/-3	-4.58/-4.84	-4.85/-1.6	-1.07/-3.68	-11.65/-17.76	-8.9/-5.71	-7.92/-7.81	-7.85/-7.74	-10.23/-13.05	-7.18/-5.99	
Θ(90°)	-7.5/-5.51	-4.83/-5.45	-3.16/-3.11	-4.54/-4.5	-5.81/-6.66	-5.64/-3.1	-2.01/-157	-4.26/-2.54	-5.36/-6.87	-7.01/-5.72	-5.19/-7.05	-4.15/-2.73	-5.76/-8.09	-8.93/-8.54	-5.14/-5.7	-7.32/-6.81	-6.19/-2.66	-0.67/-2.6	-10.27/-17.89	-4.44/-2.54	-11.5/-6.14	-3.72/-3.59	-7.63/-6.82	-4.41/-4.88	
Θ(97.5°)	-4.23/-6.84	-3.24/-6.85	-5.26/-3.76	-4.71/-7.07	-9.71/-9.22	-7.79/-5.81	-3.18/-1.5	-3.86/-3.61	-5.72/-7.27	-9.24/-4.09	-3.13/-3.23	-3.62/-3.39	-5.61/-4.53	-8.91/-6.8	-7.31/-10.61	-18.68/-19.32	-6.38/-10	-5.08/-9.24	-18.73/-8.24	-10.93/-8.26	-10.43/-8.32	-4.22/-4.91	-8.61/-9.12	-4.22/-4.91	
Θ(105°)	-3.29/-5.89	-3.54/-2.76	-3.46/-2.74	-2.83/-4.87	-5.4/-8.79	-8.65/-5.7	-3.24/-2.72	-4.38/-5.59	-8.77/-11.59	-10.76/-6.95	-5.52/-3.76	-3.46/-2.97	-3.27/-3.68	-2.72/-6.41	-5.33/-5.81	-10.61/-17.99	-15.4/-18.33	-18.57/-9.7	-17.5/-18.51	-12.25/-8.95	-10.4/-8.83	-5.96/-9.49	-7.07/-6.77	-5.81/-4.32	
Θ(112.5°)	-4/-3.8	-2.09/-1.91	-0.25/-0.99	-2.07/-2.62	-7.18/-9.85	-9.58/-8.36	-4.69/-3.1	-4.52/-7.54	-6.1/-6.22	-7.77/-8.19	-7.52/-4.35	-7.19/-6.53	-8.47/-8.4	-5.41/-15.63	-12.6/-11.31	-18.38/-18.89	-11.54/-9.03	-11.97/-11.96	-13.47/-9.88	-12.66/-11.16	-10.37/-9.05	-7.66/-7.7	-5.18/-6.21	-4.22/-2.29	
Θ(120°)	-1.11/-2.81	-0.440/-0.72	-0.27/-0.6	-0.45/-2.93	-6.33/-9.53	-9.77/-9.35	-7.38/-5.5	-5.84/-6.62	-7.91/-9.78	-8.78/-17.45	-12.75/-6.3	-10.18/-15.4	-11.4/-11.24	-7.2/-12.7	-18.12/-10.49	-11.09/-18.12	-12.86/-13.94	-12.37/-9.08	-13.69/-14.56	-14.49/-13.15	-3.22/-2.88	-4.75/-1.42	-4.75/-1.42	-4.75/-1.42	
Θ(127.5°)	-0.73/-0.73	-0.98/-1.59	-1.83/-2.56	-4.11/-4.17	-5.14/-5.59	-5.04/-4.72	-4.67/-3.89	-4.51/-6.45	-7.45/-8.41	-18.91/-14.69	-10.38/-15.56	-10.42/-7.36	-9.9/-10.74	-9.46/-18.62	-14.54/-18.12	-16.34/-19.1	-18.93/-10.3	-13.62/-11.48	-15.73/-11.91	-15.37/-15.52	-19.28/-10.54	-3.87/-4.62	-5.04/-0.05	-5.04/-0.05	
Θ(135°)	-3.62/-2.91	-2.24/-4.06	-6.13/-5.22	-3.91/-4.62	-4.95/-4.89	-5.34/-5.99	-5.72/-6.39	-6.71/-5.65	-4.49/-3.98	-6.97/-16.66	-12.73/-8.73	-10.93/-12.18	-19.28/-13.91	-7.51/-7.6	-15.51/-17.82	-8.58/-8.59	-7.55/-14.25	-13.57/-9.56	-14.99/-18.3	-15.71/-14.42	-10.66/-8.1	-14.29/-13.11	-8.97/-14.1	-10.83/-2.94	
Θ(142.5°)	-5.36/-3.95	-1.5/-1	-1.45/-3.67	-3.71/-1.94	-1.67/-2.65	-4.45/-7.82	-13.34/-16.11	-16.01/-17.88	-15.16/-14.86	-13.07/-13.21	-16.58/-18.22	-15.62/-12.64	-15.24/-18.27	-19.07/-14.24	-15.63/-17.25	-14.93/-18.68	-19.35/-17.98	-18.45/-11.87	-17.61/-12.21	-11.29/-15.31	-14.26/-9.74	-9.29/-11.41	-8.53/-10.56	-16.58/-6.84	
Θ(150°)	-5.96/-4.39	-2.13/-0.4	-0.25/-1.12	-2.06/-1.38	-3.66/-3.94	-5.33/-6.76	-9.58/-12.28	-13.29/-16.52	-19.01/-18.98	-18.84/-15.33	-14.64/-13.98	-15.82/-19.37	-17.49/-18.16	-18.68/-15.11	-16.42/-17.56	-16									