



Radiated Composite Gain Data of 6GHz UNII 5~UNII 8

Appendix C

Θ(157.5°)	-11.39/-15.57	-17.97/-13.7	-9.69/-10.57	-12.28/-15.18	-17.66/-17.28	-16.5/-14.31	-11.22/-10.16	-8.4/-7.46	-5.98/-3.56	-2.33/-2.78	-4.04/-6.2	-13.13/-12.91	-6.47/-4.18	-1.73/-0.45	-0.49/-1.63	-3.28/-3.3	-3.51/-5.85	-9.35/-12.4	-16.65/-15.48	-6.26/-3.74	-7.1/-17.65	-6.7/-5.3	-7.25/-10.92	-18.35/-15.21
Θ(165°)	-14.64/-14.68	-11.39/-7.23	-5.15/-3.86	-4.74/-5.66	-6.02/-5.9	-6.03/-7.39	-8.99/-10.23	-8.77/-9.45	-8.14/-7.16	-6.91/-7.95	-9.88/-11.25	-8.47/-5.05	-3.16/-2.44	-1.75/-1.63	-1.57/-1.71	-2.22/-2.88	-3.61/-4.58	-5.72/-7.84	-11.4/-14.48	-11.77/-10.72	-13.43/-16.5	-9.26/-8.54	-11.46/-13.44	-13.44/-14.3
Θ(172.5°)	-10.2/-8.97	-8.97/-7.62	-8.05/-9.91	-9.28/-9.65	-10.85/-12.56	-13.67/-13.15	-12.25/-11.33	-10.88/-8.3	-8.55/-9.34	-10.68/-12.76	-13.34/-11.39	-8.28/-5.63	-4.16/-3.45	-3.5/-3.99	-4.77/-6.06	-7.6/-9.54	-12.16/-15.29	-18.67/-18.98	-18.36/-15.37	-14.11/-14.33	-16.67/-18.36	-17.5/-14.2	-14.13/-13.77	-13.42/-13.93
Θ(180°)	-14.3/-13.05	-13.24/-13.51	-12.04/-11.12	-12.24/-12.49	-11.46/-10.75	-10.17/-10.71	-10.76/-10.57	-10.88/-10.53	-11.78/-13.06	-13.62/-13.11	-12.28/-11.73	-11.79/-11.98	-12.44/-13.35	-12.91/-12.39	-12.34/-12.33	-12.79/-13.36	-14.81/-17.12	-18.85/-18.87	-17.73/-17.84	-18.19/-16.94	-15.42/-14.09	-14.63/-17.14	-18.12/-14.4	-13.74/-14.48
Freq(Hz)	6.175GPol.	ThetaAnt.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Ψ(0°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°)	-10.86/-15.85	-18.62/-17.61	-15.28/-11.15	-8.07/-6.01	-4.54/-3.76	-3.27/-2.68	-2.22/-2.4	-2.36/-2.82	-3.23/-4.12	-4.94/-5.63	-6.71/-7.82	-9.54/-12.27	-17.25/-18.01	-16.85/-12.4	-9.39/-6.82	-5.5/-3.91	-2.83/-2.4	-2.41/-2.85	-2.83/-1.76	-0.93/-0.82	-1.3/-1.72	-2.31/-3.21	-4.02/-4.09	-5.38/-7.79
Θ(7.5°)	-16.44/-17.96	-15.26/-12.03	-10.39/-8.99	-7.5/-6.47	-6.03/-5.39	-3.82/-2.52	-1.86/-1.75	-1.52/-1.57	-1.73/-2.1	-2.18/-2.25	-2.68/-3.61	-5.01/-7.27	-10.84/-15.79	-18.31/-17.83	-11.21/-8.17	-6/-4.45	-3.46/-3.2	-3.48/-3.9	-4.08/-3.16	-2.58/-2.75	-3.55/-4.73	-5.47/-6.73	-8.3/-8.45	-9.4/-13.9
Θ(15°)	-12.27/-10.35	-9.63/-7.63	-6.89/-5.74	-4.51/-3.61	-3.23/-2.69	-2.27/-2.18	-2.44/-2.63	-2.93/-3.15	-2.98/-2.5	-2.37/-2.78	-3.23/-3.84	-4.2/-3.4	-7.48/-10.6	-14.74/-14.73	-12.06/-9.47	-7.53/-5.26	-4/-3.59	-3.9/-5	-5.84/-6.16	-5.55/-5.45	-5.08/-4.81	-4.53/-4.76	-6.69/-9.7	-9.46/-10.21
Θ(22.5°)	-6.59/-8.6	-8.53/-7.14	-3.91/-1.88	-1.52/-1.15	-0.85/-1.16	-1.64/-1.99	-1.58/-1.99	-1.85/-1.43	-1.15/-1.24	-1.47/-1.71	-2.58/-3.42	-3.69/-4.53	-6.75/-9.48	-12.14/-16.04	-14.37/-13.27	-12.97/-11.64	-11.59/-12.57	-18.09/-17.59	-16.03/-12.99	-9.92/-8.02	-6.98/-5.75	-4.98/-4.14	-3.95/-5.26	-5.76/-5.75
Θ(30°)	-8.35/-7.54	-7.17/-4.98	-2.51/-1.54	-0.87/-0.5	0.95/0.39	-0.51/-2.29	-4.35/-4.25	-2.23/-0.99	-0.11/-0.23	-1.29/-1.42	-1.28/-1.82	-2.21/-3.97	-7.28/-12.31	-18.62/-17.8	-18/-18.13	-18.26/-17.96	-18.15/-14.94	-13.14/-11.11	-9.32/-8.5	-9.48/-8.79	-7.69/-6.68	-6.17/-5.85	-6.11/-7.59	-9.05/-10.34
Θ(37.5°)	-18.18/-6.86	-5.81/-2.93	-1.49/-0.87	-0.61/-0.13	0.17/0.74	0.53/-0.63	-0.87/-0.87	-1.01/-1.35	-0.20/-0.42	0.33/-0.2	-1.87/-4.12	-7.08/-12.08	-16.59/-19.03	-17.53/-14.33	-9.59/-10.35	-17.11/-19.29	-13.79/-10.57	-8.57/-8.67	-14.08/-15.25	-17.56/-13.59	-11.86/-11.79	-14.84/-8.81	-14.08/-11.74	-9.26/-9.37
Θ(45°)	-12.08/-11.49	-8.22/-3.1	-0.24/-1.73	2.07/1.13	0.57/0.19	-0.38/-0.65	-0.18/-0.07	-0.33/-0.42	-0.20/-0.45	-0.77/-1.2	-2.98/-5.67	-9.02/-12.72	-9.45/-8.21	-11.92/-14.11	-19.32/-16.52	-7.48/-5.48	-8.64/-18.54	-17.2/-11.57	-12.73/-14.11	-16.59/-9.56	-10.35/-12.01	-13.81/-17.32	-18.92/-18.91	-
Θ(52.5°)	-17.74/-14.94	-8.46/-5.99	-2.19/-1.37	2.62/-1.96	0.72/0.17	-0.39/-0.9	-1.14/-0.85	-0.95/-0.95	-0.56/-0.15	-0.4/-2.37	-4.61/-8.18	-10.92/-10.51	-8.14/-6.3	-7.35/-8.21	-6.98/-9.72	-11.59/-10.46	-7.01/-8.72	-13.75/-18.39	-18.14/-16.15	-8.91/-10.41	-10.02/-8.38	-3.72/-5.17	-4.4/-10.18	-8.6/-13.35
Θ(60°)	-18.55/-15.35	-8.67/-4.11	-1.26/-0.24	0.57/0.94	0.54/0.57	-0.51/-0.86	-1.38/-1.42	-1.4/-2.14	-2.49/-2.59	-1.72/-1.81	-3.73/-6.15	-8.92/-8.72	-7.02/-6.62	-6.18/-3.66	-1.13/-4.04	-1.135/-4.77	-2.5/-1.99	-2.83/-2.61	-1.8/-1.91	-4.93/-6.36	-8.79/-14.19	-7.98/-2.85	-3.67/-2.1	-4.51/-5.68
Θ(67.5°)	-11.11/-18.36	-18.99/-10.8	-3.24/-0.54	0.68/0.74	0.26/-0.06	-0.88/-1.85	-1.75/-1.61	-2.79/-1.92	0.04/0.28	1.18/0.27	-2.82/-4.12	-3.63/-3.55	-4.36/-4.85	-1.51/-0.68	-11/-12	-2.76/0.6	0.85/0.47	-1.3/-2.9	-2.64/-0.05	0.73/-5.36	-5.88/-0.44	-0.92/0.67	-0.57/-3.31	-
Θ(75°)	-4.51/-18.61	-17.7/-6.05	-4.03/-1.53	0.57/1.55	1.22/1.08	0.91/1.8	1.1/1.05	0.64/-0.25	1.13/-1.6	2.23/1.99	0.22/-1.56	-0.96/-1.19	-1.28/-0.91	1.01/-0.1	-2.21/-1.61	-2.74/-2.43	-0.88/-2.31	-6.91/-10.43	-9.37/-10.22	-8.51/-15.82	-12.14/-6.11	-11.7/-4.38	-0.61/-1.1	-1.58/-2.5
Θ(82.5°)	-4.29/-15.29	-13.51/-9.52	-6.77/-2.5	-2/-0.57	0.08/-1.9	-1.3/-0.69	0.13/-0.07	-0.88/-1.41	0.69/0.41	0.82/0.5	-1.8/-3.04	-1.77/-1.9	-2.1/-0.04	1.61/-2.27	-6.94/-7.66	-7.54/-12.21	-18.94/-12.71	-10.75/-11.79	-6.99/-12.9	-14.96/-10.12	-16.9/-7.58	-3.75/-3.2	0.42/0.94	-0.99/-2.26
Θ(90°)	-1.92/-4.44	-10.27/-12.34	-7.26/-2.28	-1.76/-1.27	-2.56/-4.46	-2.61/-2.02	-0.9/-1.21	-4.28/-1.17	-3.79/-0.87	0.53/0.34	1.15/0.44	-2.29/-1.66	-0.69/-2.34	-0.64/-3.59	-15.66/-4.82	-8.23/-4.45	-3.32/-3.53	-1.59/-2.6	-5.57/-5.52	-4.56/-5.01	-18.57/-9.41	-5.13/-7.33	-1.93/-0.28	-3.68/-2
Θ(97.5°)	-1.28/-7.24	-11.24/-9.3	-11.83/-4.28	-4.06/-7.77	-6.16/-8.4	-9.02/-6.54	-3.38/-3.3	-9.61/-13.71	-6.65/-1	1.69/1.97	0.31/-1.09	-3.83/-3.72	-3.67/-7.28	-7.8/-8.19	-7.71/-2.97	-10.75/-1.71	-1.99/0	2.1/0.74	-0.8/0.6	1.51/0.17	-11.72/-4.82	-2.12/-7.16	-1.99/-0.39	-1.66/-4.68
Θ(105°)	-0.33/-2.34	-15.29/-7.15	-1.498/-8.11	-5/-6.24	-9.7/-10.72	-12.93/-9.63	-7.58/-5.61	-8.65/-2.56	-0.77/-1.66	2.58/1.53	-0.16/-1.47	-7.45/-13.81	-19.23/-9.12	-9.75/-6.11	-1.37/-2.48	-1.9/-3.14	-1.03/0.49	1.46/-1.52	-5.24/0.4	2.04/-3.32	-2.17/-1	-0.02/-14.13	-5.55/-8.05	-1.87/-6.7
Θ(112.5°)	-7.23/-6.04	-11.29/-8.27	-12.51/-18.2	-15.37/-8.2	-9.71/-12.21	-15.55/-14.86	-12.16/-8.42	-5.01/-5.46	-2.88/-0.22	-2.58/-3.54	-6.39/-9.64	-10.14/-11	-7.13/-3.66	-1.57/-0.42	-3.37/-1.04	-1.13/0.5	-1.1/0.35	-0.69/-5.33	-14.39/-7.54	4.44/-17.96	-8.88/-4.2	-0.57/-5.28	4.59/-8.65	-5.8/-12.22
Θ(120°)	-7.25/-6.72	-12.01/-8.2	-9.12/-18.65	-18.87/-14.76	-15.68/-17.87	-10.54/-6.79	-5.05/-5.12	-7.49/-10	-9.51/-9.16	-0.88/-9.11	-13.93/-8.12	-5.15/-1.98	1.05/-1.86	-2.23/-1.08	-1.64/0.49	-1.23/-2.91	-0.68/-1	-1.91/-13.23	-14.64/-8.04	-7.34/-8.17	-10.21/-46	-9.74/-5.84	-4.79/-5.14	-11.67/-6.16
Θ(127.5°)	-10.93/-13.18	-11.45/-13.16	-8.92/-6.57	-8.11/-11.65	-17.07/-14.38	-11.11/-6.87	-10.95/-11.61	-10.03/-10.25	-9.26/-10.69	-6.43/-2.73	-4.96/-5.26	-0.52/-0.83	-2.39/-3.66	-0.33/-1.48	-1.79/0.11	0.07/-10.59	-10.57/-2.46	-6.8/-6.56	-18.38/-11.43	0.58/-8.45	-8.45/-1.85	-2.52/-5.19	-13.84/-6.82	-4.82/-9.08
Θ(135°)	-12.85/-14.15	-11.81/-11.12	-18.13/-18.95	-15.49/-12.27	-9.35/-10.43	-11.25/-17.78	-12.96/-8.52	-9.52/-14.7	-13.85/-8.52	-3.81/-5.7	-5.64/-2.24	-0.29/-3.73	-6.65/-3.97	-3.27/-4.3	-5.25/-2.28	-1.01/-5.17	-7.15/-2.19	-3.1/-3.93	-6.21/-3.19	2.53/0.44	-9.71/-18.23	-8.48/-3.86	-12.58/-8.56	-6.82/-6.64
Θ(142.5°)	-15.83/-18.32	-15.22/-13.12	-10.16/-11.06	-10.51/-11.58	-14.81/-17.96	-17.57/-18.76	-17.99/-19.1	-18.31/-17.42	-16.41/-11.49	-8.29/-4.92	-2.76/-2.37	-7.4/-8.8	-5.49/-12.58	-7.7/-9.56	-2.77/-5.62	-4.94/-4.39	-8.03/-10.01	-8.02/-7.17	-2.77/0.63	-3.34/-14.93	-1.99/-10.28	-7.76/-11.4	-10.28/-12.94	-
Θ(150°)	-13.77/-12.09	-8.79/-7.6	-10.94/-16.49	-18.39/-19.16	-17.74/-13.37	-11.13/-9.35	-9.14/-9.78	-8.13/-8.66	-7.01/-5.95	-5.85/-6.12	-6.69/-8.45	-10.56/-9.39	-9.17/-10.77	-12.97/-14.97	-7.69/-5.04	-3.32/-4.32	-3.67/-5.24	-7.01/-9.21	-5.07/-2.03	-0.83/0.34	-0.68/-4.52	-9.49/-12.57	-14.65/-13.08	-12.38/-1.4
Θ(157.5°)	-18.42/-15.56	-17.06/-12.32	-11.76/-14.07	-12.71/-12	-11.08/-8.35	-6.93/-6.76	-8.43/-12.08	-14.49/-11.47	-13.59/-15.04	-10.88/-6.63	-6.82/-5.15	-5.47/-8.25	-11.68/-16.87	-12.73/-4.65	-2.11/-1.67	-1.04/-1.48	-2.9/-5.89	-12.15/-12.93	-8.17/-5.05	-4.92/-6.26	-4.93/-4.65	-9.07/-9.72	-6.45/-9.01	-12.25/-16.11
Θ(165°)	-15.67/-18.77	-18.4/-18.68	-17.5/-17.27	-18.59/-16.38	-12.91/-10.21	-9.27/-9.17	-10.22/-10.17	-9.63/-11.6	-13.72/-18.28	-18.51/-15.55	-11.77/-10.34	-10.56/-12.49	-17.22/-18.7	-11.24/-6.57	-5.15/-4.59	-4.19/-4.38	-6.26/-9.9	-15.94/-18.62	-14.83/-11.43	-10.88/-11.35	-10.59/-9.84	-11.72/-9.29	-6.51/-7.14	-10.32/-12.82
Θ(172.5°)	-17.74/-18.41	-18.49/-18.43	-17.55/-18.4	-16.84/-16.13	-16.01/-15.31	-14.84/-15.04	-15.85/-13.75	-13.19/-14.09	-13.74/-12.35	-10.83/-10.75	-11.62/-13.18	-15.49/-18.24	-18.65/-15.12	-11.3/-8.79	-7.43/-6.35	-5.54/-5.57	-6.64/-8.8	-12.65/-17.82	-18.69/-18.58	-19.12/-15.91	-12.42/-12.46	-15.91/-18.38	-18.15/-17.13	-18.71/-18.79
Θ(180°)	-12.65/-13.17	-14.05/-16.67	-18.06/-16.38	-14.96/-14.27	-13.81/-13.16	-11.74/-11.07	-11.21/-11.15	-11.48/-12.49	-13.51/-14.59	-17.77/-18.04	-18.88/-18.77	-17.72/-18.68	-18.69/-19.08	-18.64/-17.54	-15.22/-13.76	-12.42/-11.96	-13.26/-16.7	-18.31/-18.64	-16.72/-16.5	-19.12/-19.35	-19.08/-18.81	-18.65/-17.8	-18.05/-18.12	-15.34/-14.55
Freq(Hz)	6.475GPol.	PhiAnt.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)Ψ(0°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°)	-3.48/-4.5	-6.13/-9.14	-11.72/-18.13	-17.93/-19.18	-13.5/-10.3	-8.69/-8.14	-7.92/-7.25	-6.1/-5.25	-4.58/-4.52	-5.24/-5.44	-4.37/-4.69	-7.4/-9.46	-5.54/-6.12	-7.32/-8.17	-8.7/-9.67	-11.62/-13.89	-17.17/-18.67	-17.08/-14.49	-11.38/-8.9	-7.09/-6.03	-5.16/-3.94	-2.87/-3.1	-3.74/-2.64	-2.24/-8.1
Θ(7.5°)	-4.68/-4.85	-5/-5.83	-7.07/-13	-17.08/-17.25	-17.91/-18.97	-18.21/-18.6																		



Radiated Composite Gain Data of 6GHz UNII 5~UNII 8

Appendix C

Θ(0°)	-10.01/-11.36	-12.85/-13.46	-13.53/-11.68	-9.59/-8.44	-7.69/-7.83	-7.94/-7.24	-7.07/-6.54	-6/-5.58	-5.36/-4.87	-3.37/-5.05	-5.83/-6	-6.34/-7.06	-8.47/-10.25	-12.55/-15.09	-15.79/-13.57	-10.73/-8.29	-6.66/-5.21	-4.66/-4.04	-3.6/-1.84	-1.09/-1.26	-1.84/-2.71	-2.92/-3.21	-3.99/-4.85	-6.85/-8.27
Θ(7.5°)	-7.92/-10.25	-13.34/-12.88	-11.08/-10.11	-9.55/-9.15	-8.36/-7.78	-6.62/-5.29	-4.56/-4.22	-3.62/-3.38	-2.9/-3.44	-4/-4.58	-5.7/-7.25	-8.91/-10.91	-12.92/-14.46	-15.32/-14.99	-12.62/-9.99	-8.35/-7.4	-6.69/-6.04	-5.75/-5.61	-5.44/-5.75	-5.52/-5.38	-5.39/-5.62	-4.81/-4.64	-5.44/-6.64	-7.45/-6.89
Θ(15°)	-7.52/-8.68	-9.11/-9.42	-9/-6.56	-6.71/-6.44	-6.42/-5.89	-5.54/-4.86	-3.58/-2.3	-1.94/-1.8	-1.9/-2.34	-2.63/-3.31	-4.91/-6.7	-8.28/-9.25	-11.01/-13.86	-18.71/-18.38	-16.11/-12.25	-8.01/-6.57	-6.01/-5.89	-5.46/-6.44	-6.01/-6.97	-9.05/-12.21	-13.77/-14.05	-12.86/-11.94	-10.99/-10.11	-8.99/-7.7
Θ(22.5°)	-9.62/-7.1	-5.48/-3.01	-2.08/-2.68	-2.18/-2.12	-4.11/-6.96	-5.01/-2.23	-0.83/-0.72	-1.19/-1.64	-1.95/-2.13	-2.6/-3.69	-5.03/-6.59	-7.93/-9.81	-10.65/-13.59	-18.49/-18.51	-17.85/-10.66	-7.28/-7.1	-6.75/-6.07	-6.04/-6.91	-8.94/-11.23	-12.13/-12.65	-12.71/-11.83	-9.24/-7.98	-8.55/-8.84	-8.28/-8.46
Θ(30°)	-16.33/-11.09	-6/-3.49	-2.49/-2.71	-2.72/-2.75	-2.75/-2.25	-2.24/-3.17	-4.49/-3.72	-1/-1.75	-2.58/-3.02	-3.65/-4.61	-5.72/-7.23	-9.01/-9.82	-10.92/-11.52	-11.62/-15.39	-18.31/-17.42	-15.21/-16.06	-13.29/-14.68	-17.81/-19.52	-14.97/-17.78	-9.97/-9.61	-7.53/-5.45	-4.55/-3.81	-4.13/-5.4	-7.41/-10.13
Θ(37.5°)	-7.52/-8.3	-5.24/-1.42	0.14/-0.99	-0.7/-3.54	-4.45/-2.04	-0.79/-0.78	-1.0/-0.04	-0.44/-1.26	-1.95/-2.34	-3.23/-4.78	-5.41/-5.83	-4.98/-5.72	-5.23/-7.11	-7.29/-7.76	-11.37/-18.57	-18.38/-18.26	-18/-15.67	-12.28/-12.39	-11.44/-10.05	-12.11/-14.45	-11.97/-12.03	-8/-7.47	-6.62/-7.01	-7.1/-7.95
Θ(45°)	-10.54/-7.99	-6.08/-5.04	-2.44/-0.56	0.78/-0.16	-0.88/-0.6	-0.83/-1.27	0.32/-0.86	0.25/-0.18	-0.75/-1.43	-1.85/-1.52	-1.05/-1.46	-1.96/-2.32	-3.52/-5.14	-7.36/-9.1	-10.83/-12.59	-11.13/-12.27	-13.92/-13.03	-13.21/-11.04	-10.4/-13.08	-13.68/-10.24	-10.95/-12.49	-12.48/-11.56	-10.58/-10.29	-11.46/-13.54
Θ(52.5°)	-13.05/-10.49	-7.78/-3.34	-1.72/-0.21	-0.44/-1.07	-1.5/-2.03	-2.35/-3.52	-1.46/-0.4	1.25/-1.6	1.51/-0.2	0.26/-0.13	0.44/-0.37	-1.04/-2.5	-3.41/-6.58	-11.01/-9.44	-7.25/-10.6	-9.82/-17.93	-11.03/-7.96	-6.57/-5.9	-8.3/-10.23	-11.78/-17.76	-13.3/-15.27	-17.36/-18.4	-18.1/-11.88	-11.02/-11.06
Θ(60°)	-13.99/-11.73	-13.13/-5.53	-1.4/-0.74	0.24/-0.21	-0.24/-0.5	-1.47/-1.01	-0.04/-0.81	1.79/-1.86	1.51/-1.1	1.05/-0.67	0.15/-1.17	-3.29/-5.22	-4.76/-4.9	-2.65/-1.94	-3.98/-6.21	-7.83/-15.09	-8.21/-6.16	-6.4/-6.14	-5.06/-4.07	-11.03/-16.52	-14.14/-18.69	-15.58/-7.68	-9.01/-6.21	-5.37/-14.91
Θ(67.5°)	-12.44/-11.94	-6.57/-5.58	-3.3/-1.82	-0.96/-2.47	-3.8/-3.09	-3.07/-2.98	-2.18/-1.54	-0.87/-0.42	0.67/-0.93	-0.05/-1.46	-2.23/-4.05	-6.45/-3.19	-0.26/-0.61	-0.37/-0.02	-2.94/-5.07	-9.34/-10.66	-5.67/-4.59	-4.14/-2.94	-1.18/-1.86	-6.58/-18.61	-10.6/-12.5	-11.06/-3.43	-2.94/-3.8	-3.54/-7.76
Θ(75°)	-7.39/-6.06	-9.51/-8.34	-4.68/-3.1	-2.38/-0.48	-5.65/-4.65	-4.93/-5.87	-4.79/-3.72	-1.91/-3.72	-2.72/-3.43	-6.83/-10.89	-6.41/-7.01	1.02/-0.12	-0.46/-0.03	-2.84/-5.71	-11.12/-13.73	-12.91/-7.02	-13.6/-14.12	-7.37/-4.76	-10.45/-17.86	-14.46/-16.73	-9.32/-2.53	-2.37/-1.54	0.03/-3.62	
Θ(82.5°)	-2.82/-3.82	-8.04/-7.71	-5.88/-4.33	-2.93/-2.49	-4.76/-5.08	-5.84/-3.4	-1.91/-1.55	-3.37/-3.58	-1.75/-1.66	-4.51/-8.04	-5.97/-4.88	-2.01/-1.06	1.19/-0.22	-2.86/-5.53	-9.57/-16.98	-16.27/-17.34	-18.67/-12.96	-10.3/-15.83	-14/-18.15	-14.87/-17.19	-18.5/-13.23	-14.75/-4.4	-1.97/-0.81	0.40/-4.15
Θ(90°)	-1.57/-1.25	-3.89/-6.73	-6.19/-5.68	-2.87/-4.84	-7.14/-11.1	-6.47/-6.04	-5.92/-7.73	-6.06/-6.04	-3.28/-5.92	-6.99/-3.91	-2.33/-2.4	-1.3/-0.8	0.35/-1.85	-5.4/-13.85	-19.11/-6.74	-6.44/-17.43	-9.17/-5.69	-4.34/-1.84	-3.49/-7.37	-18.01/-12.16	-18.52/-13.25	-17.98/-7.97	-2.71/-2.22	0.30/95
Θ(97.5°)	-1.31/-0.4	-1.68/-11.22	-9.52/-8	-4.32/-6.47	-5.47/-10.39	-6.61/-5.87	-4.93/-5.87	-4.79/-3.72	-4.33/-2.51	-3.87/-1.7	0.81/-0.03	-0.78/-0.31	-1.95/-3.7	-6.17/-7.21	-7.78/-8.03	-4.39/-14.3	-9.58/-5.04	-1.55/-0.7	0.41/-1.47	-4.35/-6.86	-11.44/-7.78	-7.98/-15.8	-5.55/-2.66	-3.55/-0.74
Θ(105°)	-3.97/-1.88	1.24/-6.44	-8.83/-15.79	-13.37/-9.05	-8.35/-12.1	-16.78/-15.12	-18.99/-19.29	-18.49/-7.34	-4.28/-1.83	-1.17/-0.73	0.02/-2.64	-1.49/-2.63	-9.34/-6.32	-5.01/-9.53	-4.03/-4.09	-3.5/-11.07	-9.83/-6.82	-8.97/-8.91	0.33/-0.3	-4.97/-4.6	-11.2/-9.28	-46/-12.87	-4.08/-5.97	-7.31/-4.7
Θ(112.5°)	-4.31/-3.09	-1.27/-6.18	-15.41/-18.85	-13.09/-7.35	-7.77/-7.7	-7.29/-6.82	-7.58/-10.86	-6.05/-4.81	-1.97/-1.37	-0.66/-3.4	-4.7/-6.35	-9.07/-10.85	-5.74/-1.88	-1.41/-1.91	-2.88/-8.88	-5.22/-7.44	-7.11/-5.42	-4.88/-4.32	-15.21/-10.52	-4.78/-15.94	-15.33/-10.71	-10.32/-10.12	-13.81/-8.96	-6.93/-4.78
Θ(120°)	-5.57/-5.43	-1.29/-4.54	-9.77/-10.39	-17.81/-11.66	-7.86/-7.19	-6.32/-5.42	-4.36/-5.47	-6.02/-3.59	-3.42/-4.84	-9.09/-8.77	-16.54/-17.85	-5.55/-3.14	-1.88/-6.5	1.24/-5.23	-6.45/-2.4	0.07/-4.15	-6.86/-4.84	-5.36/-6.89	-18.34/-18.18	-5.35/-12.63	-17.66/-4.33	-14.55/-1.74	-3.98/-7.34	-11.29/-3.97
Θ(127.5°)	-6.13/-4.23	-3.37/-4.47	-8.05/-16.95	-11.59/-7.29	-4.24/-3.66	-4.65/-5.69	-8.91/-11.24	-7.2/-0.08	-8.61/-8.96	-10.55/-12.44	-4.84/-3.41	-2.88/-1.1	1.78/-0.85	-1.82/-8.83	-1.32/-0.83	-1.07/-2.81	-14.04/-10.28	-6.18/-7.48	-11.84/-6.17	0.41/-10.25	-14.15/-0.75	-3.68/-18.47	-7.68/-9.74	-8.99/-14.44
Θ(135°)	-13.78/-7.92	-5.55/-7.56	-7.55/-14.6	-8.88/-8.59	-8.59/-9.76	-8.52/-7.6	-7.5/-9.58	-12.27/-10.47	-13.32/-11.71	-6.91/-4.24	-4.3/-3.69	-2.81/-0.37	-1.2/-1.73	-2.89/-6.81	-9.5/-5.2	-0.69/-4.18	-6.78/-6.42	-6.11/-6.02	-6.92/-4.18	1.47/-1.46	-10.82/-9.01	-5.76/-3.5	-14.82/-15.28	-6.27/-8.92
Θ(142.5°)	-17.1/-7.33	-4.09/-2.57	-8.28/-11.62	-17.37/-13.98	-9.68/-9.41	-11.02/-12.22	-15.96/-16.55	-17.87/-10.25	-5.39/-2.96	-2.58/-3.42	-3.08/-3.28	-3.64/-5.47	-4.35/-6.88	-10.24/-12.81	-9.97/-4.76	-8.56/-7.49	-7.37/-3.23	-4.88/-5.95	-5.9/-3.81	-3.76/-9.22	-7.71/-18.38	-16.33/-10.89	-11.88/-14.28	-18.09/-18.3
Θ(150°)	-9.46/-6.67	-4.79/-5.94	-7.21/-13.64	-18.22/-19.01	-15.47/-10.87	-8.8/-8.26	-9.11/-10.15	-9.84/-13.47	-7.69/-5.41	-3.27/-1.58	-1.21/-3.01	-4.82/-4.41	-4.7/-6.85	-18.66/-11.84	-5.91/-4.72	-6.49/-8.93	-8.46/-5.44	-14.88/-12.33	-8.9/-4.86	-3.38/-2.12	-2.58/-5.25	-10.26/-13.48	-18.77/-15.37	-16.51/-15.16
Θ(157.5°)	-12.9/-13.66	-10.13/-9.53	-9.54/-5.34	-9.43/-7.36	-5.52/-4.14	-4.28/-6.47	-14.51/-11.84	-10.67/-13.11	-17/-12.63	-9.49/-8.12	-7.04/-6.48	-8.2/-15.2	-17.09/-9.58	-4.9/-2.54	-3.25/-4.32	-3.43/-5.34	-13.66/-19.12	-16.88/-11.91	-8.35/-10.18	-12.41/-9.94	-14.4/-11.28	-9.38/-14.19	-16.69/-17.84	
Θ(165°)	-11.64/-16.07	-17.14/-17.87	-14.56/-8.95	-8.51/-9.11	-8.88/-8.48	-9.49/-10.23	-9.47/-11.17	-18.43/-13.9	-16.36/-15.86	-16.16/-16.35	-14.14/-11.36	-15.33/-18.16	-13.4/-10.49	-8.37/-5.58	-6.7/-8.33	-10.79/-15.14	-18.39/-16.79	-18.56/-18.17	-18.09/-13.55	-12.79/-13.13	-12.28/-9.91	-7.74/-8.81	-8.99/-10.14	
Θ(172.5°)	-11.87/-9.15	-6.47/-5.84	-6.15/-5.75	-7.28/-7.3	-7.78/-8.16	-8.56/-8.82	-8.81/-7.96	-8.95/-10.42	-12.2/-15.31	-19.1/-18.09	-18.65/-17.52	-18.72/-18.6	-17.44/-17.47	-17.96/-15.93	-6.42/-5.83	-5.32/-5.41	-5.71/-7.41	-10.42/-12.93	-11.72/-13.12	-15.43/-16.63	-16.88/-17.79	-17.73/-18.99	-15.1/-14.76	
Θ(180°)	-15.86/-12.93	-10.75/-10.89	-11.03/-11.02	-10.76/-10.56	-10.93/-9.98	-11.07/-10.87	-8.13/-13.72	-13.47/-13.03	-14.05/-16.38	-15.17/-14.07	-14.71/-15.31	-15.24/-14.01	-12.5/-11.24	-9.96/-8.72	-8.29/-8.04	-8.08/-8	-8.16/-9.65	-16.27/-17.85	-18.4/-12.29	-13.64/-15.22	-10.99/-16.01	-17.23/-18.38	-16.41/-16.2	
Freq(Hz)	6.995/GPol.	Phi/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°)	-1.23/-1.75	-1.02/-1.02	-1.6/-1.92	-2.34/-3.37	-4.21/-5.75	-7.97/-10.87	-14.75/-18.21	-17.78/-13.24	-9.18/-7.42	-6.08/-5.07	-3.72/-2.25	-1.27/-0.57	-0.26/-0.1	-0.02/-0.15	-0.36/-0.83	-1.57/-2.37	-3.59/-5.14	-7.44/-10.87	-16.84/-17.99	-17.74/-10.59	-6.49/-4.63	-3.51/-2.6	-1.51/-0.99	-0.82/-0.78
Θ(7.5°)	-2.14/-2.42	-2.34/-2.64	-2.59/-2.81	-3.4/-3.35	-5.89/-5.81	-13.43/-18.33	-18.7/-14.58	-9.47/-6.14	-4.04/-2.76	-2.1/-1.79	-1.44/-1.16	-0.82/-0.6	-0.83/-1.4	-1.38/-1.45	-2.13/-2.98	-4.05/-5.15	-6.75/-9.76	-14.14/-19.04	-18.18/-18.25	-14.13/-6.58	-6.77/-4.97	-2.61/-1.55	-1.5/-0.7	
Θ(15°)	-4.32/-4.37	-4.07/-3.6	-4/-4.85	-4.35/-4.27	-3.29/-2.14	-2.12/-3.12	-5.88/-10.27	-15.47/-14.85	-9.96/-5.84	-3.1/-2.7	-0.68/-0.78	-0.7/-0.26	-0.40/-0.36	-0.92/-1.31	-1.99/-2.82	-3.97/-5.17	-6.41/-7.93	-10.41/-13.09	-15.41/-18.21	-18.27/-16.31	-12.89/-11.13	-10.46/-10.53	-7.9/-5.84	-5.57/-3.62
Θ(22.5°)	-4.84/-4.18	-5.66/-6.82	-7.81/-9.35	-8.36/-4.42	-3.47/-3.63	-4.05/-6.41	-10.4/-13.69	-12.8/-9.47	-6.34/-3.69	-1.72/-0.47	-0.18/-0.24	-1.14/-1.67	-1.66/-2.06	-3.4/-4.95	-5.37/-5.28	-2.95/-6.03	-8.59/-11.28	-12.75/-14.1	-13.13/-10.81	-9.3/-7.77	-7.45/-8.35	-8.05/-8.66	-9.67/-7.37	
Θ(30°)	-9.7/-12.67	-10.06/-7.17	-7.19/-6.1	-6.32/-7.22	-7.44/-10.88	-12.87/-12.33	-17.39/-14.78	-9.45/-7.03	-5.15/-3.59	-2.38/-1.64	-1.6/-2.13	-2.41/-3.53	-4.06/-3.38	-3.96/-4.84	-5.44/-4.27	-4.7/-6.85	-9.57/-14.39	-15.5/-14	-9.93/-9.85	-9.86/-10.27	-8.91/-8.76	-11.57/-16.76	-15.86/-16.59	-15.23/-10.29
Θ(37.5°)	-7.37/-4.24	-5.01/-6.68	-8.08/-5.58	-4.02/-5.81	-7.25/-10.51	-15.31/-7.96	-13.05/-9.65	-7.73/-6.51	-6.17/-5.56	-4.26/-3.63	-2.61/-4.34	-4.45/-4.31	-4.66/-6.07	-5.37/-3.23	-4.59/-6.49	-10.26/-8.99	-9.52/-11.79	-12.65/-15.1	-17.09/-19.18	-18/-18.16	-16.01/-18.74	-12.84/-8.57	-7.89/-9.74	
Θ(45°)	-5.17/-5.81	-5.46/-7.91	-9.26/-10.25	-5.78/-4.77	-7.1/-14.21	-14.52/-17.16	-12.24/-7.32	-5.27/-4.67	-4.97/-5.78	-6.73/-6.16	-4.24/-2.66	-2.22/-2.21	-3.21/-3.25	-4.67/-5.03	-3.44/-2.49	-2.89/-4.87	-5.43/-6.53	-6.62/-8.48	-14.14/-16.55	-17.13/-11.81	-9.66/-12.96	-16.72/-15.2	-10.57/-12.7	-7.66/-7
Θ(52.5°)	-7.48/-7.11	-7.34/-6.86	-6.15/-7.98	-6.62/-5.29	-6.84/-9.13	-18.74/-11.3	-15.3/-18.28	-12.57/-11.2	-9.57/-7.44	-4.2/-2.28	-2.62/-4.96	-5.												



Radiated Composite Gain Data of 6GHz UNII 5~UNII 8

Appendix C

Θ(52°)	-9.44/-13.07	-12.63/-13.11	-15.51/-16.31	-9.02/-5.96	-4.81/-5.54	-6.82/-8.66	-9.75/-7.72	-4.73/-2.31	-0.820/-15	1.050/7	-1.910/5	2.081/95	1.17/-0.6	-1.96/-1.9	-2.39/-2.3	-3.99/-11.74	-18.69/-18.52	-16.56/-14.01	-7.93/-7.13	-8.51/-11.04	-10.44/-11.48	-9.65/-10.99	-10.06/-15.43	-18.14/-11.18
Θ(60°)	-9.97/-7.76	-10.32/-18.64	-10.74/-8.51	-5.43/-2.41	-1.08/-1.91	-3.96/-6.84	-7.96/-6.1	-2.73/-0.4	1.04/-1.7	0.23/-1.51	-2.1/-1.49	2.991/26	-0.43/-1.42	-1.13/-1.8	-2.05/-7.03	-2.05/-7.03	-17.42/-16.05	-11.43/-17.7	-6.87/-7.29	-9.06/-10.66	-8.86/-9.27	-11.26/-9.66	-10.19/-14.43	-11.3/-14.19
Θ(67.5°)	-10.53/-4.45	-4.39/-8.16	-7.91/-6.31	-2.15/-1.3	-1.15/-2.92	-5.12/-4.76	-2.05/-19	2.61/95	-0.59/-1.42	-2.46/-1.74	1.37/-0.23	0.26/-0.15	-2.53/-0.89	0.39/-0.88	-6.75/-4.77	-6.75/-4.77	-11.63/-18.01	-9.8/-8.33	-6.75/-7.49	-7.96/-7.07	-7.34/-1.95	-10.58/-7.61	-6.03/-6.13	-10.19/-11.71
Θ(75°)	-11.2/-5.39	-7.34/-9.76	-4.2/-3.13	-1.09/-1.75	1.450/05	-2.28/-5.1	-6.97/-6.22	-3.5/-0.51	1.21/-43	-0.46/-0.59	0.15/-2.69	-2.79/-1.66	0.41/-0.96	6.65/-2.83	-0.61/-1.84	-0.55/-3.81	-4.72/-8.4	-5.74/-5.4	-7.85/-10.16	-13.22/-9.81	-8.3/-5.71	-5.22/-8.15	-8.43/-13.6	-15.46/-13.01
Θ(82.5°)	-7.19/-3.36	-4.4/-9.09	-4.15/-6.66	0.971/-89	1.650/-22	-2.41/-5.39	-9.81/-10.06	-5.73/-1.15	0.70/83	-0.32/-0.3	-1.06/-7.18	-2.51/-1.51	-0.84/-3.27	-4.58/-1.32	1.522/-21	0.44/-2.13	-3.57/-8.45	-15.25/-12.39	-11.68/-16.19	-8.27/-7.84	-8.09/-6.54	-6.02/-7.37	-8.47/-7.91	-16.12/-9.46
Θ(90°)	-10.21/-8.22	-5.05/-5.86	-5.31/-0.53	1.221/-89	0.12/-2.69	-4.07/-9.35	-4.78/-4.25	-2.170/-21	0.57/-0.76	-3.81/-8.93	-3.83/-1.38	-0.29/-4.45	-4.89/-2.92	0.032/-11	0.032/-11	-0.53/-2.73	-4.29/-4.55	-10.63/-18.11	-17.65/-19	-9.51/-5.16	-4.59/-8.85	-7.44/-6.2	-8.71/-8.97	-7.92/-9.58
Θ(97.5°)	-4.31/-1.05	-0.46/-1.88	-2.31/-1.03	1.452/-21	0.36/-1.38	-4.81/-8.64	-8.91/-6.03	-5.1/-3.48	-2.470/-7	0.52/-1.9	-4.08/-9.71	-3.13/-2.6	-4.65/-8.19	-3.78/-1.24	-2.54/-1.43	-3.96/-4.51	-2.58/-4.15	-8.58/-14.64	-15.89/-10.58	-7.47/-5.27	-4.71/-11.07	-12.86/-5.65	-3.91/-3.28	-5.28/-7.22
Θ(105°)	-5.3/-2.77	-0.8/-1.25	-2.03/-2.16	0.371/-64	0.21/-2.1	-3.68/-4.11	-5.5/-5.36	-6.22/-5.75	-2.72/-1.38	-2.77/-4.4	-5.56/-4.16	-2.77/-1.49	-5.18/-14.01	-8.86/-6.17	-6.19/-6.94	-9.8/-11.49	-5.91/-8.05	-13.26/-10.71	-14.56/-11.16	-12.8/-9.66	-6.68/-16.71	-4.44/-3.75	-2.47/-2.29	-3.11/-5.66
Θ(112.5°)	-1.85/-1.93	-0.53/-0.94	-1.46/-1.46	-1.240/-27	-0.61/-2.51	-5.52/-6.34	-7.77/-10.88	-12.19/-6.23	-3.2/-1.18	-3.6/-41	-6.99/-3.68	-2.52/-3.89	-12.18/-9.96	-4.79/-5.92	-7.93/-10.96	-15.03/-18.5	-11.75/-8.49	-12.91/-10.88	-12.06/-9.37	-17.68/-9.94	-9.28/-8.51	-2.88/-3.28	-1.93/-2.26	-1.52/-2.15
Θ(120°)	-4.5/-0.85	-0.24/-0.64	-1.38/-1.27	-1.09/-1.39	-1.39/-3.49	-7.82/-11.83	-14.56/-12.46	-5.41/-3.17	-2.38/-3.76	-6.77/-10.4	-7.49/-3.25	-3.09/-5	-6.71/-10.73	-4.5/-8.85	-7.78/-18.54	-17.03/-17.67	-16.98/-13.11	-12.35/-17.81	-12.8/-11.13	-10.99/-8.79	-11.45/-6.59	-1.16/-0.55	-1.36/-3.17	-3.16/-5.74
Θ(127.5°)	0.77/-0.2	0.48/-1.65	1.08/-0.36	-2.61/-2.93	-3.25/-4.29	-5.62/-7.05	-6.43/-9.44	-4.6/-4.03	-3.64/-5.1	-6.64/-6.16	-5.28/-5.44	-4.04/-8.31	-14.91/-15.82	-9.13/-8.38	-9.85/-19.13	-17.91/-18.38	-9.77/-12.28	-11.98/-10.87	-17.18/-17.17	-6.04/-4.59	-7.51/-7.8	-2.08/-1.43	0.39/-1.72	1.960/-0.2
Θ(135°)	0.50/-66	0.81/-55	-0.62/-1.05	-1.61/-4.22	-5.96/-5.76	-5.48/-5.64	-6.2/-6.8	-7.68/-7.79	-7.42/-5.41	-7.99/-6.69	-8.58/-4.94	-3.59/-3.95	-6.53/-11.78	-12.72/-11.29	-11.1/-15.57	-18.2/-14.36	-10.59/-9.54	-8.23/-16.57	-19.05/-17.41	-9.41/-7.55	-8.08/-11.56	-3.63/-3.61	-3.39/-0.03	1.210/-36
Θ(142.5°)	-1.31/-1.21	1.44/-0.79	-0.91/-2.53	-4.51/-5.92	-8.18/-9.67	-11.33/-13.25	-14.32/-14.12	-12.35/-9.16	-6.24/-5.14	-6.53/-9.72	-9.25/-10.57	-13.3/-12.65	-14.87/-17.98	-18.03/-18.34	-17.85/-14.01	-12.17/-15.13	-11.64/-11.44	-14.58/-14.97	-16.38/-13.82	-7.95/-4.6	-5.08/-4.39	-4.49/-3.93	-4.16/-5.93	-3.3/-2.07
Θ(150°)	-0.980/-27	0.31/-0.32	-1.96/-4.4	-6.99/-9.12	-11.69/-13.79	-11.65/-7.44	-5.35/-4.45	-3.87/-3.54	-4.78/-7.27	-7.4/-6.22	-6.63/-10.67	-16.3/-16.22	-12.81/-16.08	-12.87/-12.88	-10.61/-7.65	-7.18/-13.32	-11.79/-12.27	-18.18/-16.78	-13.56/-11.66	-13.24/-2.44	-0.79/-0.79	-0.54/-2.22	-3.55/-1.93	
Θ(157.5°)	-7.65/-5.6	-2.06/-1.79	-3.04/-4.69	-6.09/-6.44	-5.38/-4.47	-4.95/-6.89	-7.92/-6.9	-4.74/-3.97	-4.01/-0.54	-5.47/-5.66	-5.62/-2.9	-9.26/-9.87	-8.76/-11.31	-12.73/-9.92	-7.93/-6.89	-11.99/-18.54	-16.31/-17.87	-15.21/-11.53	-15.08/-17.68	-12.81/-6.45	-4.97/-4.28	-2.02/-0.82	-1.82/-1.82	-3.27/-5.65
Θ(165°)	-4.83/-2.38	-0.52/-0.06	0.13/-0.43	-1.67/-3.41	-6.47/-9.8	-11.36/-11.44	-11.26/-11.27	-10.08/-9.08	-9.1/-9.23	-9.23/-9.02	-10.73/-11.88	-14.53/-14.39	-12.46/-7.68	-7.51/-8.51	-11.11/-15.35	-17.43/-18.2	-18.68/-18.31	-14.47/-11.88	-11.23/-10.62	-9.67/-9.29	-8.61/-6.87	-5.19/-4.43	-3.54/-2.86	-3.55/-4.65
Θ(172.5°)	-6.51/-4.62	-2.38/-0.8	-0.14/-0.2	-0.63/-1.25	-2.55/-4.7	-7.93/-11.82	-15.11/-14.58	-12.18/-9.85	-7.63/-6.28	-5.8/-6.56	-8.22/-15.19	-11.46/-11.18	-10.24/-10.08	-11.32/-14.31	-14.62/-10.53	-11.6/-10.68	-10.04/-9.94	-11.15/-12.46	-11.47/-10.77	-12.53/-14.07	-12.34/-11.08	-10.91/-10.78	-8.12/-6.79	-7.69/-7.14
Θ(180°)	-3.56/-3.75	-2.46/-4.64	-4.61/-4.93	-5.55/-7.9	-10.95/-14.06	-15.55/-17.32	-15.7/-17.23	-10.8/-8.1	-8.24/-8.58	-9.51/-10.02	-10.11/-9.05	-7.31/-5.96	-5.21/-5.5	-4.98/-4.69	-4.83/-6.73	-7.13/-9.51	-12.44/-16.16	-17.57/-18.48	-18.43/-18.37	-14.88/-12.26	-11.06/-9.45	-7.63/-6.12	-5.54/-5.38	-4.74/-4.16
Freq(Hz)	6.4750GPdL	Phi/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°)	-9.91/-8.02	-6.12/-4.74	-2.87/-2.59	-2.49/-2.95	-2.72/-2	-1.43/-2.11	-1.3/-1.04	-4.43/-5.51	-6.61/-4.95	-5.99/-7.54	-10.89/-16.02	-18.66/-18.22	-13.76/-10.74	-8.39/-3.19	-2.32/-1.5	-1.61/-1.86	-2.27/-2.51	-2.57/-2.63	-3.05/-3.82	-5.05/-4.33	-8.91/-7.6	-18.41/-16.22	-15.68/-10.96	
Θ(7.5°)	-11.46/-8.81	-7.27/-5.2	-4.13/-3.98	-3.71/-3.76	-3.55/-3.36	-2.91/-2.99	-3.27/-4.48	-6.56/-9.31	-11.24/-9.72	-8.69/-9.13	-9.85/-9.61	-10/-10.43	-11.1/-11.23	-9.77/-7.7	-5.7/-3.98	-3.01/-2.36	-2.1/-2.43	-3.13/-3.41	-3.03/-2.94	-3.13/-3.66	-5.9/-10.45	-10.11/-13.13	-17.44/-18.98	-17.77/-12.65
Θ(15°)	-14.52/-12.94	-10.91/-9.87	-8.12/-7.13	-5.4/-3.87	-2.93/-2.26	-2.2/-2.57	-3.4/-0.6	-5.45/-7.24	-12.11/-17.57	-17.17/-18.58	-16.01/-13.78	-11.63/-10.13	-9.89/-10.95	-11.86/-11.26	-9.46/-8.03	-6.98/-6.26	-5.41/-5.4	-5.86/-5.38	-4.75/-4.3	-4.58/-5.71	-6.6/-7.58	-18.47/-18.17	-9.34/-10.61	-15.57/-13.65
Θ(22.5°)	-13.59/-12.49	-10.46/-11.6	-10.58/-9.22	-7.2/-6.05	-5.77/-5.71	-6.37/-7.76	-7.96/-6.81	-6.04/-6.98	-9.67/-13.19	-17.41/-16.94	-18.94/-12.1	-9.78/-9.81	-9.09/-11.55	-17.13/-18.59	-14.77/-9.88	-11.5/-16.26	-6.66/-8.04	-10.51/-11.85	-11.86/-10.53	-10.58/-9.84	-10.28/-9.81	-9.34/-10.67	-11.57/-13.65	-14.57/-14.84
Θ(30°)	-11.79/-9.17	-9.12/-10.14	-14.36/-15.13	-14.35/-14.64	-12.75/-11.58	-11.42/-12.46	-11.41/-9.95	-8.32/-7.33	-6.45/-7.02	-10.72/-15.01	-19.06/-18.36	-18.46/-11.2	-14.28/-17.87	-18.36/-11.35	-8.43/-7.2	-7.36/-8	-7.31/-7.25	-7.69/-9.75	-12.55/-16.35	-17.69/-13.21	-9.3/-7.99	-8.25/-8.41	-11.04/-15.61	-18/-15.71
Θ(37.5°)	-8.35/-8.78	-8.57/-9.7	-9.05/-11	-12.82/-13.71	-15.05/-15.74	-18.95/-17.12	-10.95/-6.64	-3.82/-2.53	-3.16/-5.73	-9.84/-17.27	-13.44/-9.89	-7.4/-9.89	-15.48/-13.47	-10.66/-10.03	-13.79/-13.19	-13.23/-18.52	-18.01/-17.97	-13.68/-11.63	-10.38/-9.79	-8.48/-10.07	-14.01/-18.18	-15.75/-12.7	-14.66/-14.14	-10.51/-9.84
Θ(45°)	-8.1/-8.04	-8.46/-10.29	-12.45/-12.26	-13.2/-18.87	-15.08/-11.39	-9.73/-11.41	-10.05/-7.52	-3.31/-1.34	-1.14/-1.98	-4.57/-9.27	-11.64/-12.77	-12.07/-8.75	-9.14/-15.44	-18.29/-17.94	-18.86/-14.88	-10.01/-9.47	-4.83/-3.62	-8.62/-16.46	-4.65/-4.99	-12.77/-6.88	-4.95/-6.77	-7.72/-12.52	-17.96/-11.73	
Θ(52.5°)	-10.83/-8.16	-7.21/-5.23	-4.63/-7.73	-14.51/-10.11	-8.44/-9.51	-13.61/-16.3	-8.92/-4.57	-3.15/-2.01	-0.71/-1.92	-6.38/-10.06	-6.69/-5.82	-8.32/-16.04	-18.85/-17.91	-17.82/-14.89	-12.2/-8.81	-6.3/-1.78	-3.4/-2.66	-3.82/-6.73	-11.39/-10.58	-2.25/-2.29	-4.38/-7.4	-6.72/-8.76	-7.95/-9.43	-17.42/-14.1
Θ(60°)	-10.32/-8.59	-8.02/-6.92	-5.62/-8.81	-12.18/-8.26	-7.88/-8.79	-10.15/-10.02	-16.3/-11.48	-6.08/-4.33	-2.04/-2.06	-4.04/-14.82	-11.98/-9.24	-7.21/-8.98	-14.36/-14.53	-18.03/-10.79	-7.07/-0.94	-4.56/-4.03	-3.98/-3.59	-2.78/-2.64	-9.23/-12.47	-4.07/-1	-1.27/-1.9	-3.25/-3.1	-4.72/-4.42	-11.05/-8.18
Θ(67.5°)	-17.33/-12.75	-14.39/-8.63	-5.23/-6.41	-7.59/-6.8	-5.9/-7.81	-14.16/-18.26	-14.12/-9.78	-4.9/-2.03	-2.34/-4.65	-11.56/-18.62	-7.44/-6.46	-9.28/-11.98	-11.18/-7.78	-4.46/-0.76	-0.95/-1.18	-3.36/-5.03	-3.55/-3.03	-2.14/-3.51	-5.92/-6.7	-6.08/-4.97	-6.48/-5.36	-2.96/-2.78	-7.2/-10.95	-12.21/-17.42
Θ(75°)	-18.22/-18.53	-9.91/-19.32	-7.97/-4.71	-8.14/-3.19	-0.69/-2.65	-5.52/-8.31	-7.81/-4.62	-3.19/-3.54	-2.54/-3.63	-8.91/-11.57	-9.45/-14.34	-16.54/-18.77	-8.62/-9.73	-3.25/-1.65	-0.67/-1.79	-1.53/-4.96	-4.86/-5.05	-3.5/-5.64	-6.28/-10.78	-9.1/-6.61	-8.23/-18.31	-5.84/-5.48	-7.15/-14.02	-15.9/-18.99
Θ(82.5°)	-16.16/-18.18	-11.5/-15.07	-7.62/-5.09	-7.43/-4.33	-3.07/-3.55	-8.23/-11.11	-7.19/-6.09	-2.35/-1.38	-3.38/-7.57	-18.65/-9.96	-7.07/-8.06	-9.55/-10.63	-6.14/-6.73	-3.47/-3.07	-1.62/-1.6	-4.6/-3.97	-6.2/-4.4	-1.69/-1.64	-1.66/-5.76	-12.86/-6.56	-7.06/-12.51	-11.84/-14.14	-17.77/-13.59	-12.86/-15.19
Θ(90°)	-7.09/-8.06	-9.8/-4.9	-11.85/-3.6	-2.22/-2.23	-0.2/-0.62	-4.97/-2.63	-1.65/-4.46	-3.57/-3.04	-6.11/-12.8	-8.94/-6.78	-6.63/-11.09	-13.18/-17.83	-12.64/-14.84	-4.52/-2.98	-3.63/-1.66	-4.4/-2.93	-0.86/-2.53	0.062/38	2.21/81	-5.31/-15.7	-10.66/-12.69	-10.29/-9.82	-18.42/-14.39	-12.76/-16.57
Θ(97.5°)	-8.17/-6.92	-10.44/-7.19	-10.28/-2.8	-2.5/-2.17	-0.57/-1.39	-3.31/-3.38	-1.85/-1.44	-2.64/-3.38	-4.07/-5.66	-3.26/-1.24	-7.82/-8.16	-11.17/-9.07	-18.13/-8.63	-6.95/-3.28	-6.48/-6.81	-2.83/-3.27	-1.49/-6.06	-0.352/-19	1.360/-17	-9.86/-10.62	-19.62/-10.71	-12.71/-15.8	-8.24/-18.15	
Θ(105°)	-13.74/-5.9	-5.88/-8.86	-6.02/-3.25	-0.620/-17	-0.57/-1.46	-2.73/-4.48	-3.6/-24	-2.26/-7.32	-															



Radiated Composite Gain Data of 6GHz UNII 5~UNII 8

Appendix C

Θ(105°)	-1.710	-2.35/-1.96	-2.31/-1.49	-3.24/-3.67	-2.17/-0.4	-2.93/-4.17	-6.75/-7.89	-12.79/-5.22	-6.07/-7.02	-10.9/-6.75	-1.94/-2.57	-1.8/-0.92	-4.12/-2.08	-5.66/-6.18	-7.46/-3.2	-5.13/-9.95	-6.72/-5.72	-6.25/-8.45	-12.8/-10.48	-17.88/-15.91	-18.83/-7.77	-2.67/-3.39	-5.8/-2.39	-1.54/-2.67
Θ(112.5°)	0.67/-1.77	-1.29/-2.89	-3.33/-3.88	-2/-3.19	-2.93/-4.34	-4.81/-5.72	-8.23/-11.51	-11.94/-10.24	-7.3/-7.8	-10.55/-7.37	-5.1/-3.13	-2.91/-1.02	-1.9/-8.09	-13.16/-6.6	-6.3/-8.98	-7.26/-12.37	-18.52/-9.3	-8.97/-12.82	-17.95/-14.28	-14.28/-11.02	-14.22/-7.31	-3.24/-3.36	-5.4/-3.29	-1.66/-2.52
Θ(120°)	1.02/-1.46	1.46/-0.29	-1.56/-1.23	-0.67/-0.37	-0.61/-1.28	-2.74/-5.13	-7.87/-9.67	-8.69/-7.21	-5.24/-5.94	-11.7/-6.68	-6.08/-7.52	-12.92/-8.24	-6.85/-3.31	-8.91/-18.7	-7.24/-9.26	-11.27/-14.48	-17.6/-16.18	-18.16/-18.71	-10.81/-11.2	-8.16/-8.91	-14.79/-7.58	-5.29/-6.06	-1.63/-2.43	-2.380/96
Θ(127.5°)	-1.2/-1.27	0.97/-0.01	-2.94/-4.79	-1.96/-1.23	-1.68/-2.32	-4.55/-6.53	-8.23/-7.56	-7.46/-7.85	-9.71/-10.46	-8.87/-7.12	-5.17/-3.11	-2.86/-3.48	-5.4/-7.85	-18.49/-15.56	-12.11/-17.56	-13.82/-13.92	-12.48/-19.59	-17.12/-8.06	-14.84/-19.08	-10.75/-7.36	-9.37/-4.41	-3.71/-2.33	-0.98/-0.42	1.21/11
Θ(135°)	1.17/-0.53	-1.95/-0.11	0.94/-0.9	-4.31/-2.6	-1.23/-2.05	-2.9/-4.4	-5.74/-6.21	-8.57/-10.87	-18.06/-17.55	-9.36/-6.66	-8.73/-11.92	-19.02/-13.18	-11.57/-7.21	-10.38/-16.22	-16.12/-13.03	-19.01/-17.59	-14.65/-14.3	-8.93/-8.39	-17.57/-18.37	-8.01/-10.88	-10.59/-9.69	-10.26/-6.79	-2.23/-0.94	0.31/-1.47
Θ(142.5°)	-1.980/17	0.84/-0.84	-2.22/-3.43	-2.65/-1.22	-1.23/-0.84	-0.98/-1.28	-2.73/-5.3	-10.73/-17.1	-15.61/-9.94	-9.58/-11.73	-10.26/-11.5	-18.99/-14.35	-15.01/-15.23	-10.94/-9.05	-10.81/-14.46	-17.89/-18.57	-14.21/-17.73	-11.04/-13.55	-18.71/-18.81	-12.8/-15.51	-14.66/-7.11	-4.38/-3.91	-10.16/-3.1	-1.74/-2.06
Θ(150°)	-1.2/-2.35	-1.76/-0.51	-0.79/-3.53	-7.35/-6.56	-5.44/-6.28	-7.26/-8.87	-8.92/-7.13	-6.16/-5.64	-7.16/-8.73	-8.91/-6.29	-4.92/-5.94	-11.89/-17.57	-18.14/-19.21	-16.49/-11.57	-10.55/-8.68	-8.36/-9.84	-9.31/-9.53	-17.96/-18.84	-16.51/-13.93	-6.61/-3.78	-5.16/-1.97	-0.8/-0.25	-1.84/-1.02	-0.59/-2.62
Θ(157.5°)	-4.06/-4.21	-3.63/-0.93	-0.27/-0.89	-2.95/-7.09	-12.12/-12.49	-9.12/-7.41	-6.97/-7.25	-7.12/-6.33	-6.36/-10.52	-18.22/-12.4	-8.36/-3.5	-4.05/-5.79	-8.02/-10.93	-14.46/-11.72	-7.36/-5.54	-6.5/-10.22	-12.47/-12.09	-10.37/-10.33	-12.48/-10.92	-8.73/-10.62	-10.75/-3.71	-1.130/5.4	0.48/-2.5	-5.7/-5.52
Θ(165°)	-4.66/-2.95	-2.22/-2.16	-1.81/-1.85	-2.03/-3.13	-5.04/-7.77	-11/-13.34	-12.38/-9.21	-8.13/-8.85	-16.89/-12.61	-10.91/-11.77	-11.02/-10.2	-15.88/-12.61	-12.13/-10.72	-9.79/-8.89	-7.18/-6.59	-7.02/-8.96	-17.52/-18.95	-15.2/-12.15	-18.79/-17.6	-15.2/-12.15	-11.87/-17.32	-3.34/-3.12	-4.83/-7.53	-7/-5.94
Θ(172.5°)	-5.53/-2.95	-1.59/-1.3	-1.95/-2.72	-3.36/-4.34	-5.47/-6.42	-7.81/-10.29	-13.71/-15.83	-14.38/-11.05	-8.21/-6.69	-6.12/-6.47	-7.4/-9.32	-10.34/-11.54	-12.68/-16.08	-18.29/-19.15	-15.79/-12.02	-10.07/-9.92	-11.75/-16.21	-18.44/-17.96	-17.92/-19.02	-17.94/-11.63	-6.98/-4.52	-4.05/-5	-6.28/-7.42	-9.52/-7.83
Θ(180°)	-1.41/-0.71	-0.43/-0.46	-0.61/-0.95	-1.24/-1.74	-2.48/-3.76	-5.72/-8.24	-11.33/-15.73	-17.67/-12.99	-10.28/-9.89	-10.35/-11.17	-10.62/-9.42	-7.49/-6.37	-5.61/-5	-4.8/-4.95	-5.43/-7.11	-8.6/-10.61	-12.88/-14.04	-13.89/-15.29	-18.47/-18.64	-17.91/-13.43	-10.25/-9.06	-8/-6.13	-3.68/-2.33	-1.62/-1.38
Freq(Hz)	6.995GPol.	Phi/Ant. 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gain	Φ(0°)/Φ(7.5°)	Φ(15°)/Φ(22.5°)	Φ(30°)/Φ(37.5°)	Φ(45°)/Φ(52.5°)	Φ(60°)/Φ(67.5°)	Φ(75°)/Φ(82.5°)	Φ(90°)/Φ(97.5°)	Φ(105°)/Φ(112.5°)	Φ(120°)/Φ(127.5°)	Φ(135°)/Φ(142.5°)	Φ(150°)/Φ(157.5°)	Φ(165°)/Φ(172.5°)	Φ(180°)/Φ(187.5°)	Φ(195°)/Φ(202.5°)	Φ(210°)/Φ(217.5°)	Φ(225°)/Φ(232.5°)	Φ(240°)/Φ(247.5°)	Φ(255°)/Φ(262.5°)	Φ(270°)/Φ(277.5°)	Φ(285°)/Φ(292.5°)	Φ(300°)/Φ(307.5°)	Φ(315°)/Φ(322.5°)	Φ(330°)/Φ(337.5°)	Φ(345°)/Φ(352.5°)
Θ(0°)	-3.47/-2.65	-1.81/-1.89	-0.520/28	0.770/41	-0.32/-0.74	-1.26/-2.57	-4.11/-4.82	-5.04/-5.15	-5.72/-6.17	-6.11/-5.82	-5.02/-3.83	-2.75/-2.05	-1.49/-1.35	-1.13/-0.97	-1.21/-1.27	-1.44/-1.3	-1.43/-2.26	-4.16/-4.74	-6.31/-7.47	-9.65/-10.44	-10.37/-9.69	-6.49/-4.99	-3.97/-4.39	-4.68/-5.59
Θ(7.5°)	-3/-1.88	-1.74/-1.9	-1.99/-2.03	-1.88/-2.38	-3.52/-4.57	-4.91/-5.68	-8.27/-12.26	-13.16/-12.21	-12.55/-10.36	-9/-7.99	-6.53/-5.08	-3.69/-2.54	-1.76/-1.08	-0.27/-0.02	0.250/21	0.450/77	1.10/79	0.02/-0.6	-0.82/-1.42	-2.37/-4.13	-5.44/-6.04	-9.12/-10.73	-8.96/-8.08	-6.91/-5.26
Θ(15°)	-6.7/-7.29	-7.89/-9.28	-10.35/-11.32	-10.65/-11.55	-14.04/-18.31	-17.44/-18.82	-18.95/-16.43	-15.81/-18.57	-13.81/-13.99	-12.35/-10.83	-10.37/-8.45	-6.12/-4.19	-2.99/-2.17	-1.87/-2.36	-2.67/-2.83	-2.15/-1.07	0.01/-0.01	-0.53/-0.61	-0.45/-0.45	-1.65/-3.47	-5.41/-6.44	-8.88/-12.08	-14.18/-11.81	-8.59/-8.12
Θ(22.5°)	-12.61/-18.19	-13.69/-12.02	-9.7/-9.56	-11.05/-8.95	-7.33/-6.54	-5.71/-4.82	-4.02/-3.56	-3.96/-5.05	-6.39/-8.55	-15.18/-13.69	-18.61/-17.6	-12.72/-8.91	-7/-6.02	-6.31/-7.7	-8.94/-7.41	-7.37/-8.57	-8.96/-8.55	-9.08/-10.05	-7.34/-6.08	-5.6/-5.6	-5.72/-8.29	-10.78/-12.31	-12.53/-10.55	-9.43/-10.57
Θ(30°)	-18.19/-10.96	-6.09/-4.02	-3.6/-3.33	-3.01/-1.6	-1.18/-0.5	0.360/54	0.210/-15	-0.84/-1.04	-0.58/-3.09	-6.76/-10.33	-19.29/-15.84	-17.29/-11.7	-10.16/-9.66	-11.92/-17.85	-12.35/-7.89	-5.71/-6.15	-8.29/-12.39	-17.6/-14.3	-10/-8.55	-7.1/-7.28	-8.76/-10.59	-15.72/-18.16	-18.25/-12.43	-10.99/-16.49
Θ(37.5°)	-18.45/-12.7	-8.69/-6.17	-6.96/-7.88	-5.71/-3.65	-2.71/-0.97	-0.54/-0.97	-1.45/-1.13	-0.82/-0.88	-1.65/-2.6	-3.92/-6.5	-12.55/-18.02	-13.93/-10.58	-11.97/-17.01	-17.68/-17.59	-11.23/-7.33	-9.55/-12.76	-11.06/-10.13	-14.98/-16.45	-16.73/-19.15	-14.93/-9.01	-7.5/-7.71	-10.79/-10.68	-10.72/-12.69	-15.63/-17.09
Θ(45°)	-8.04/-8.49	-5.87/-5.21	-5.36/-4.54	-4.86/-6.22	-7.15/-5.96	-4.67/-2.82	-3.3/-4.95	-7.51/-9.47	-8.37/-9.43	-4.54/-10.28	-16.2/-18.54	-9.16/-5.42	-7.06/-10.98	-17.03/-16.22	-9.02/-13.78	-11.8/-9.32	-11.37/-15	-13.79/-14.69	-11.34/-9.18	-13.49/-13.73	-18.55/-17.09	-18.2/-11.75	-7.8/-5.69	-8.23/-12.38
Θ(52.5°)	-11.25/-10.48	-9.29/-8.61	-9.53/-8.34	-8.19/-10.99	-11.77/-5.98	-5.08/-4.18	-3.65/-3.75	-5.18/-7.4	-9.93/-7.38	-8.55/-6.55	-18.57/-6.4	-4.32/-7.17	-1.94/-17.8	-18.89/-17.81	-10.04/-7.94	-5.39/-6.32	-7.85/-5.43	-5.11/-6.69	-10.52/-3.06	-6.41/-1.59	-5.69/-5.37	-7.23/-9.48	-17.59/-18.27	-13.76/-11.15
Θ(60°)	-8.16/-7.47	-6.9/-14.66	-8.66/-4.77	-6.91/-12.3	-11.37/-8.94	-6.24/-3.58	-3.91/-6.94	-8.31/-10.68	-13.75/-5	-3.3/-9.09	-13.81/-4.57	-2.97/-4.22	-7.18/-12.98	-10.72/-5.96	-2.64/-4.02	-6.32/-4.01	-4.35/-2.24	-2.23/-4.37	-17.68/-5.5	-1.58/-2.46	-3.52/-6.48	-3.84/-8.23	-11.29/-9.67	-9.11/-11.48
Θ(67.5°)	-11.03/-12.62	-6.63/-5.9	-5.63/-6.86	-8.14/-9.58	-11.41/-4.89	-2.55/-2.39	-5.22/-4	-8.02/-15.69	-15.99/-7.77	-4.95/-8.6	-16.69/-6.61	-4.23/-3.99	-5.86/-8.94	-8.4/-2.89	-2.91/-1.44	-2.4/-2.23	-3.94/-4.96	-4.47/-2.42	-5.82/-11.2	-4.79/-4.71	-4.97/-5.97	-5.25/-4.32	-7.25/-16.1	-8.34/-17.2
Θ(75°)	-8.46/-12.66	-10.85/-6.77	-5.9/-4.78	-3.39/-6.85	-9.38/-4.61	-3.76/-1.67	-2.41/-4.33	-6.11/-7.79	-8.34/-6.51	-6.05/-8.22	-18.32/-5.06	-3.77/-6.21	-5.79/-6.59	-6.45/-1.79	-2.81/-0.94	-0.34/-2.27	-1.47/-2.97	-2.27/-4.53	-7.56/-13.81	-5.64/-3.34	-9.99/-6.63	-4.05/-7.39	-5.7/-6.02	-6.48/-5.8
Θ(82.5°)	-17.98/-18.93	-15.06/-4.03	-3.31/-7.32	-4.79/-7.76	-11.6/-8.23	-2.05/-2.89	-2.54/-4.07	-7.27/-8.57	-4.76/-7.65	-6.83/-13.13	-11.68/-4.8	-4.42/-4.44	-6.07/-5.29	-5.07/-2.82	-1.46/-0.25	-1.36/-4.59	-0.27/-3.57	-8.62/-6.45	-4.03/-10.28	-14.29/-6.12	-12.01/-9.75	-6.41/-8.07	-5.58/-4.07	-6.74/-16.97
Θ(90°)	-13.9/-14.61	-18.17/-12.03	-9.21/-8.28	-5.04/-7.42	-9.73/-4.74	-4.24/-4.03	-4.21/-14.13	-7.99/-5.72	-5.07/-8.63	-9.59/-16.85	-7.74/-4.04	-7.98/-8.39	-6.18/-8.63	-5.45/-8.06	-4.12/-10.78	-1.75/-2.98	0.45/-2.2	-2.1/-0.34	1.61/-2.53	-13.22/-8.08	-8.51/-10.91	-15.71/-18.23	-13.75/-15.55	-11.54/-18.08
Θ(97.5°)	-13.4/-9.29	-7.96/-15.95	-6.71/-4.92	-3.96/-1.47	-2.44/-3.2	-7.3/-6.92	-6.02/-8.29	-2.06/-3.5	-2.93/-8.34	-14.38/-8.44	-6.47/-8.52	-18.82/-17.95	-11.38/-6.6	-5.41/-3.79	-4.55/-1.67	-0.66/-1.22	0.58/-3.48	-2.92/-0.59	-2.24/-4.3	-18.07/-13.29	-15.5/-12.19	-17.63/-13.23	-10.99/-12.77	-7.69/-17.58
Θ(105°)	-11.22/-8.33	-17.19/-6.43	-8.3/-11.28	-5.39/-2.14	-1.06/-3.25	-3.33/-3.69	-6.21/-4.38	-0.99/-5.16	-1.11/-5.39	-9.98/-10.35	-9.11/-10.05	-13.15/-14.98	-9.22/-9.09	-6.73/-8.79	-4.94/-2.04	-2.66/-4.94	-3.2/-6.21	-7.27/-5.14	-16.7/-8.67	-13.46/-16.88	-11.95/-8.84	-12.86/-18.34	-17.37/-18.62	-7.49/-18.64
Θ(112.5°)	-9.29/-8.88	-14.11/-8.31	-7.34/-7.07	-6.67/-1.77	0.260/92	-1.19/-2.63	-2.55/-3.12	-7.87/-3.92	-10.95/-9.68	-7.35/-5.21	-7.76/-13.97	-13.41/-12.09	-9.19/-17.81	-17.78/-6.42	-4.25/-2.99	-1.89/-1.73	-5.78/-4.23	-2.14/-5.62	-6.91/-4.89	-7.94/-18.39	-10.34/-0.95	-14.9/-19	-8.06/-9.83	-10.31/-13.86
Θ(120°)	-16.68/-16.5	-6.44/-4.45	-6.91/-11.25	-17.04/-5.1	-3.11/-4.39	-4.94/-8.34	-5.16/-7.7	-4.97/-10.16	-7.92/-5.57	-7.63/-4.78	-6.16/-9.1	-6.92/-8.46	-8.58/-17.52	-8.89/-9.17	-4.16/-6.39	-5.19/-5.01	-3.91/-14.7	-6.640/29	-7.95/-0.83	-10.98/-16.24	-5.83/-6.17	-8.67/-14.41	-13.61/-12.87	-11.45/-7.34
Θ(127.5°)	-17.42/-13.63	-5.46/-2.4	-4.08/-17.36	-6.71/-5.48	-3.95/-2.04	-2.6/-2.44	-3.65/-7.16	-6.39/-4.84	-7.67/-7.2	-3.63/-5.69	-17.73/-18.28	-5.94/-2.38	-8.58/-18.22	-7.99/-9.58	-7.24/-7.43	-9.75/-18.72	-4.19/-8.19	-14.33/-6.58	-12.55/-4.38	-15.85/-7.47	-5.22/-17.45	-12.79/-18.06	-11.62/-12.51	-18.46/-15.99
Θ(135°)	-12.71/-13.22	-7.67/-9.45	-5.6/-4.76	-10.78/-10.52	-4.4/-1.82	-1.76/-3.78	-5.71/-4.9	-6.96/-7.94	-11.21/-7.86	-10.04/-8.79	-11.49/-17.21	-6.42/-5.86	-14.69/-11.47	-18.46/-11.68	-10.59/-12	-6.51/-13.52	-18.19/-7.38	-6.87/-14.88	-19.07/-11.79	-13.23/-6.77	-8.27/-9.39	-11.64/-18.07	-11.27/-12.02	-18.74/-9.62
Θ(142.5°)	-8.55/-8.75	-18.19/-7.93	-4.68/-8.16	-9.31/-6.68	-4.11/-4.32	-4.72/-2.88	-1.35/-2.42	-5.15/-9.38	-10.76/-8.6	-11.55/-11.83	-4.47/-5.17	-8.87/-5.33	-6.28/-16.12	-15.12/-18.96	-13.45/-12.09	-5.9/-10.14	-13.2/-16.18	-5.08/-5.54	-11.32/-10.64	-11.28/-17.06	-9.17/-11.4	-15.07/-13	-9.75/-5.53	-7.94/-12.42
Θ(150°)	-8.86/-5.45	-4.64/-7.56	-10.81/-8.36	-6.93/-6.62	-7.66/-4.9	-3.3/-3.79	-4.98/-5.49	-5.91/-8.02	-10.83/-12.62	-16.64/-12.42	-7.37/-6.08	-4.98/-4.01	-6.11/-11.26	-9.45/-11.45	-7.1/-3.38	-6.35/-5.1	-2.28/-7.3	-13.31/-10.57	-18.66/-16.87	-17.77/-3.91	-2.09/-5.47	-16.9/-5.77	-7.58/-14.33	-13.72/-10.23
Θ(157.5°)	-9.96/-12.81	-18.04/-13.32	-10.09/-10.63	-11.35/-11.2																				