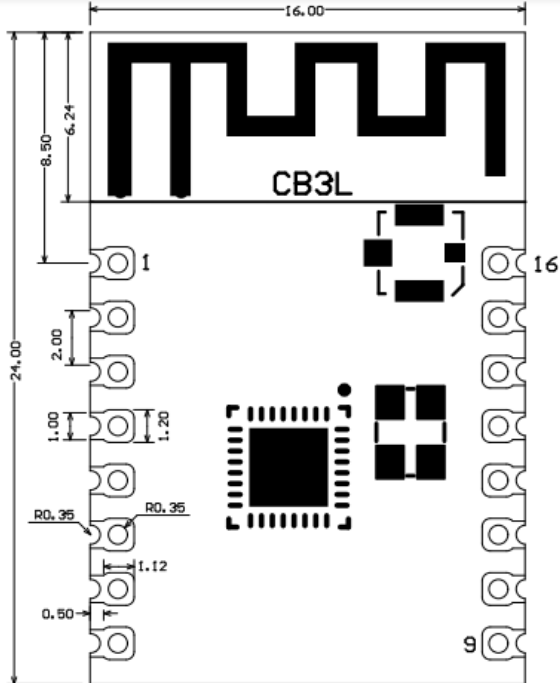
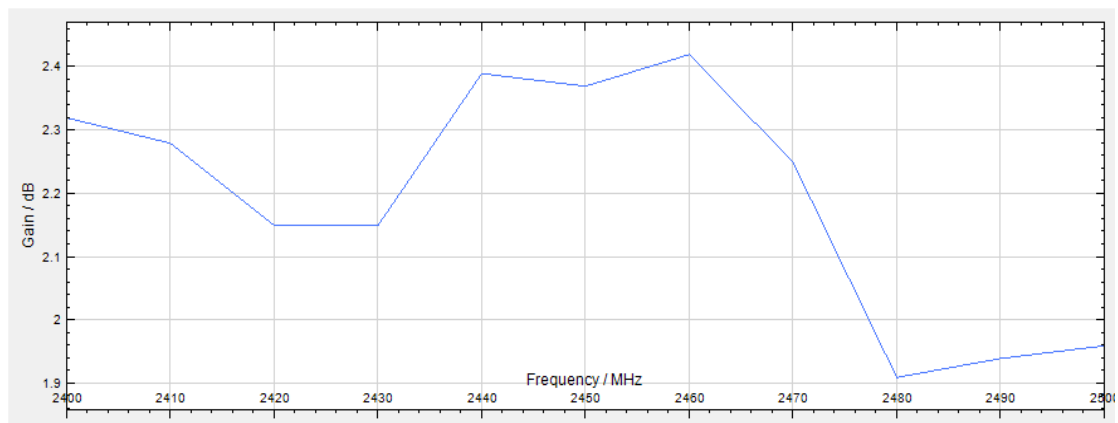


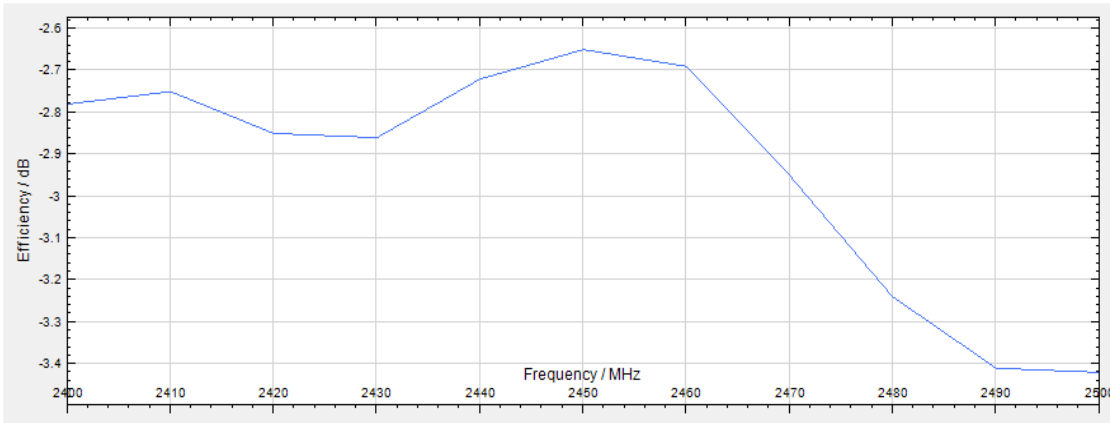


Gain:



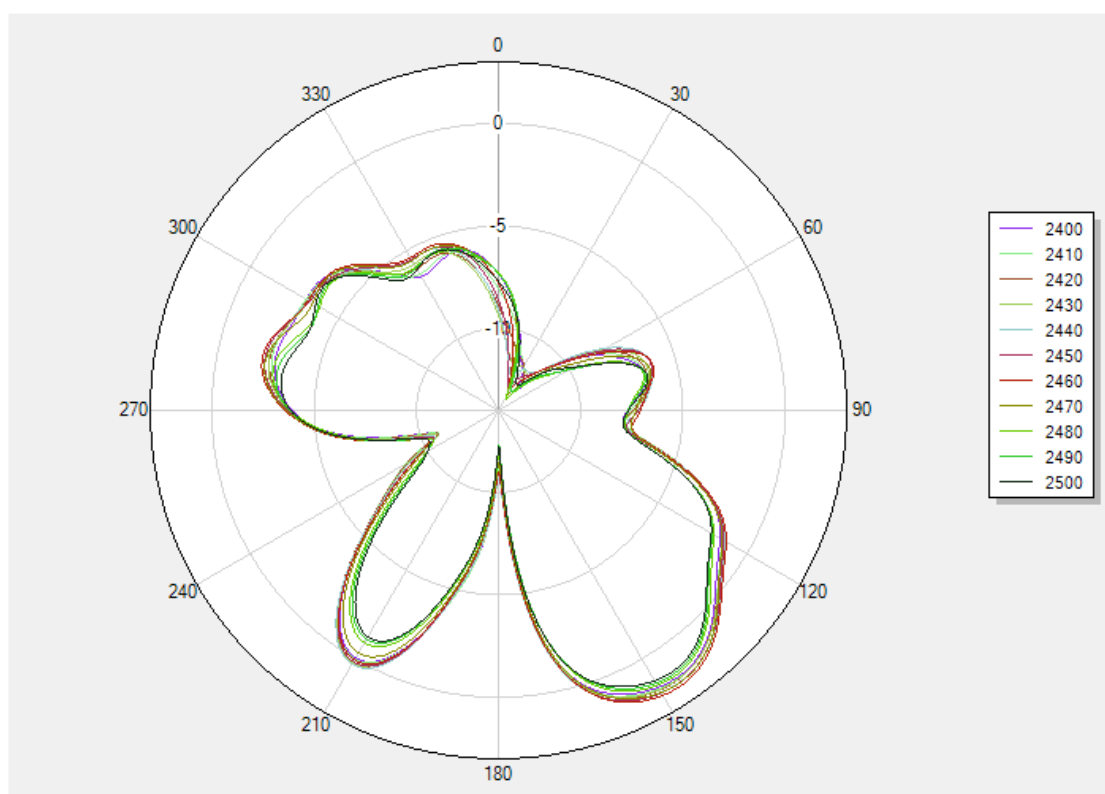
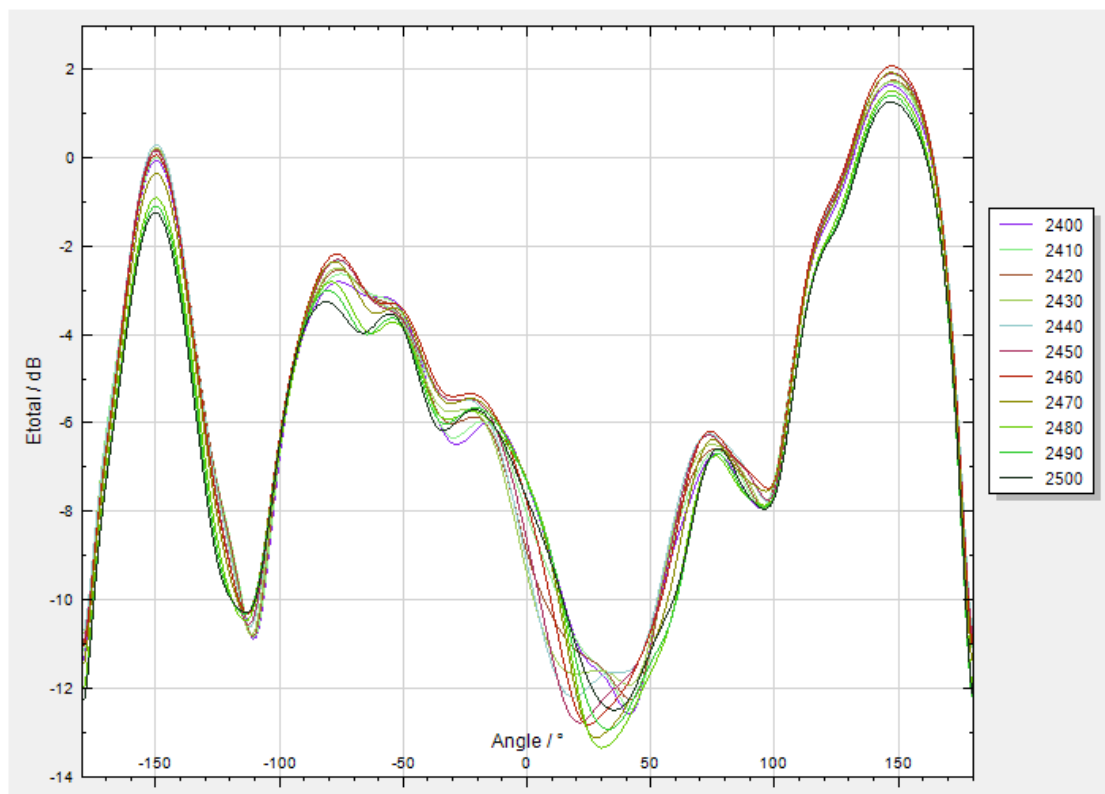
Frequency / MHz	Gain/ dB
2400	2.32
2410	2.28
2420	2.15
2430	2.15
2440	2.39
2450	2.37
2460	2.42
2470	2.25
2480	1.91
2490	1.94
2500	1.96

Efficiency:



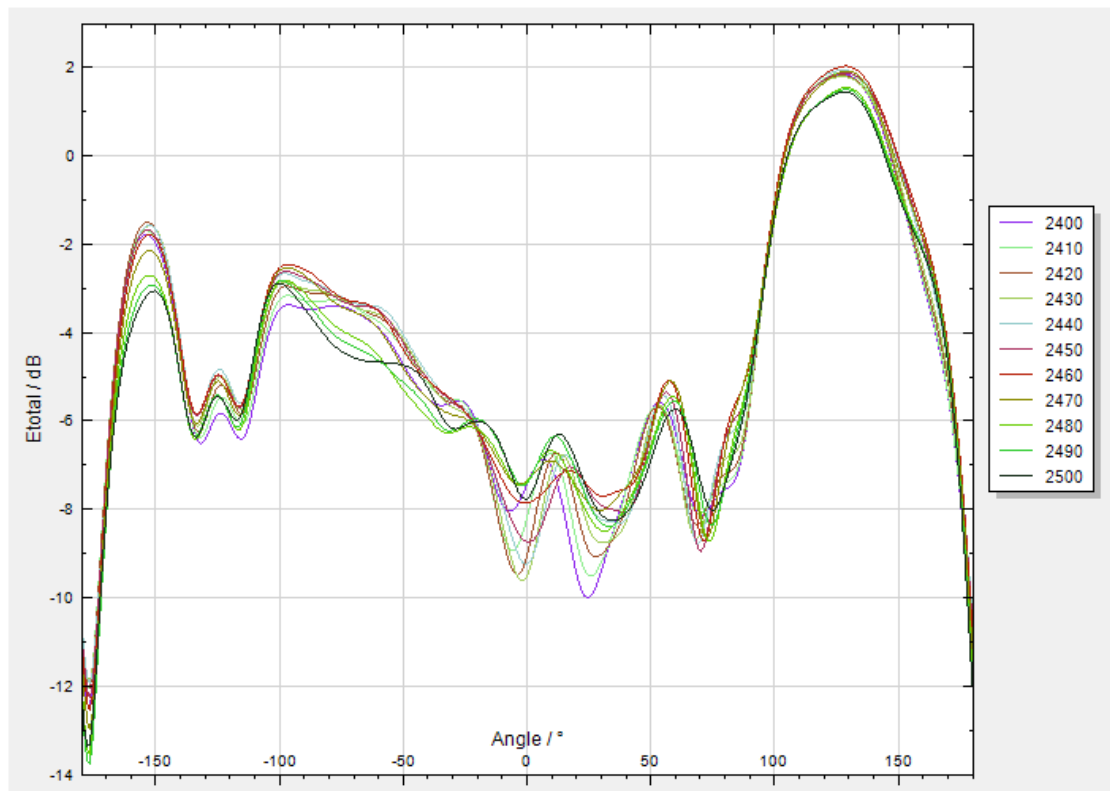
Frequency / MHz	Efficiency / dB	Efficiency / %
2400	-2.78	52.72
2410	-2.75	53.09
2420	-2.85	51.88
2430	-2.86	51.76
2440	-2.72	53.46
2450	-2.65	54.33
2460	-2.69	53.83
2470	-2.95	50.7
2480	-3.24	47.42
2490	-3.41	45.6
2500	-3.42	45.5

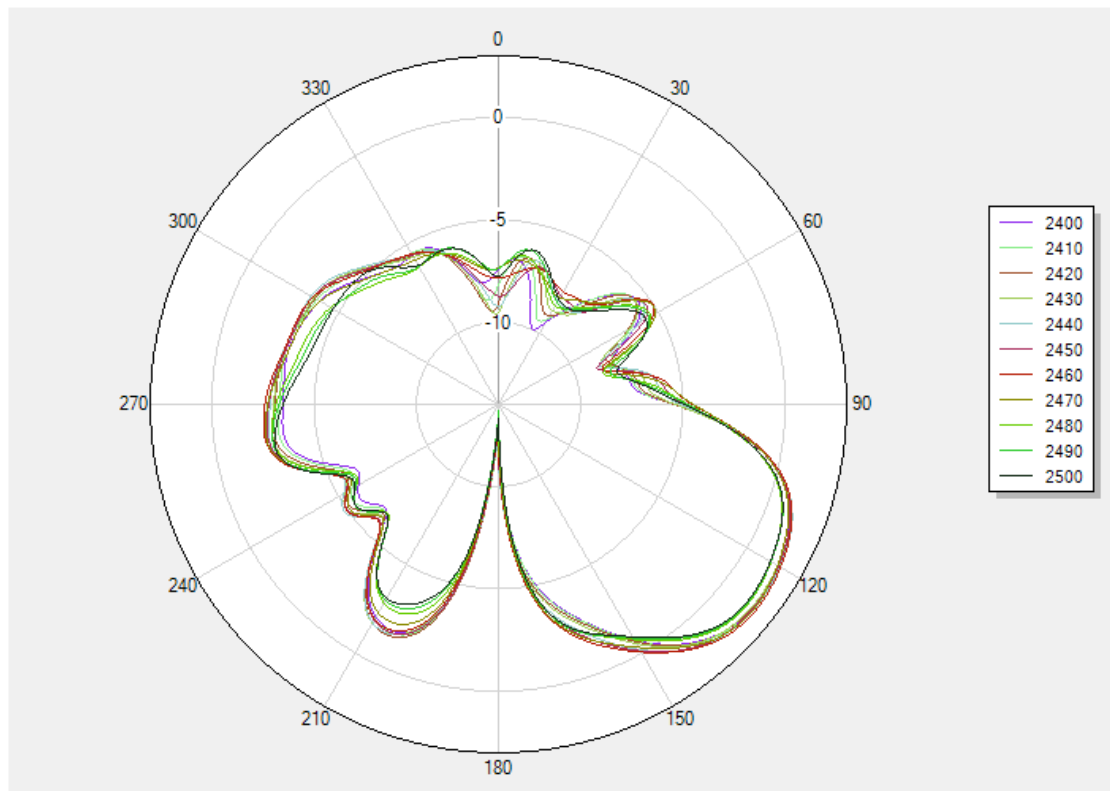
Phi 0:



Frequen cy	MaxVal ue	MaxPositi on	MinVal ue	MinPositi on	BeamWi dth	FrontBackR atio	PatternRip ple
2400	1.66	146	-12.58	41	44	7.85	14.24
2410	1.73	146	-12.47	42	44	7.88	14.2
2420	1.77	147	-12.25	41	44	7.74	14.02
2430	1.76	147	-11.92	41	45	7.48	13.68
2440	1.92	147	-12.19	18	44	7.36	14.11
2450	1.94	147	-12.77	21	43	7.37	14.71
2460	2.1	147	-12.81	24	43	7.44	14.91
2470	1.95	147	-13.11	28	42	7.47	15.06
2480	1.53	146	-13.34	30	42	7.41	14.87
2490	1.43	147	-12.92	32	41	7.44	14.35
2500	1.29	146	-12.49	35	42	7.45	13.78

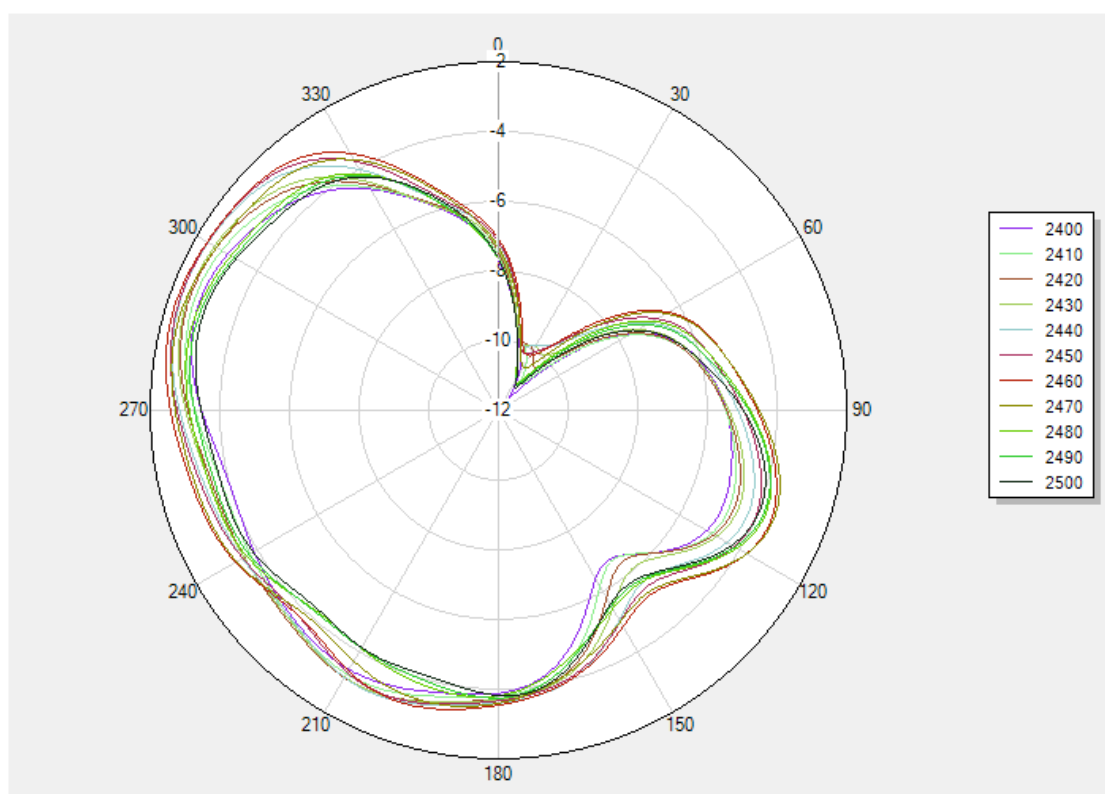
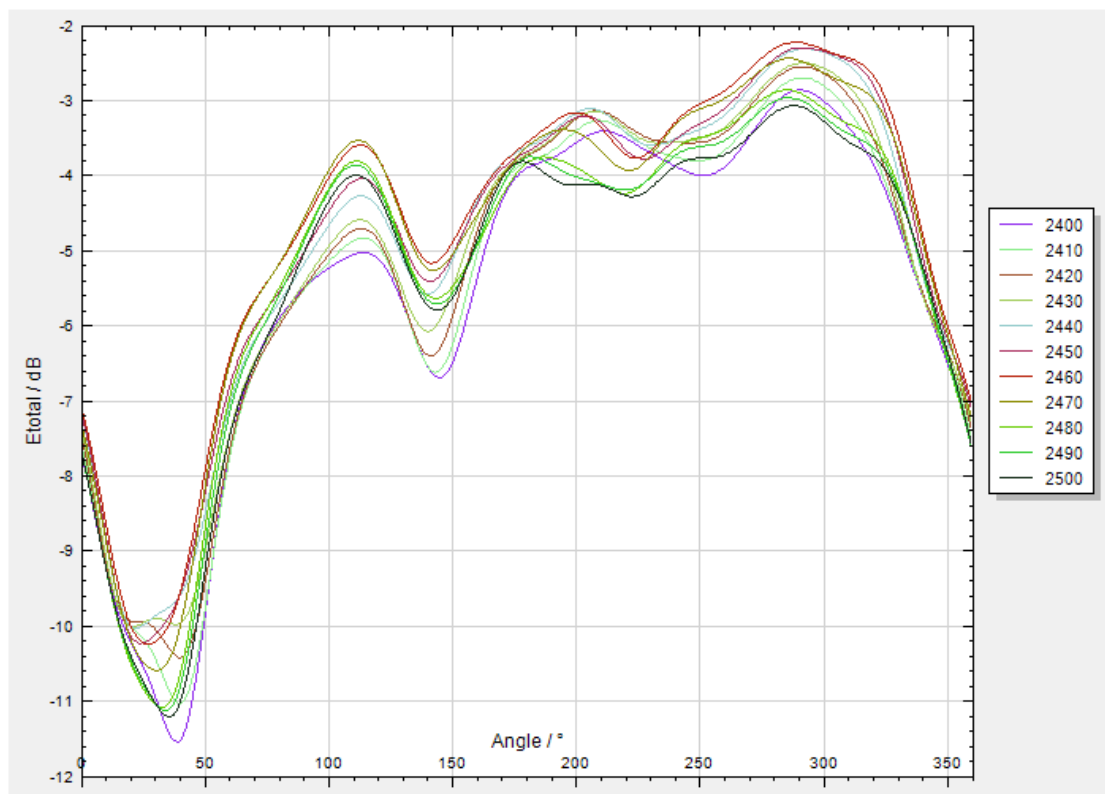
Phi 90:





Frequency	MaxValue	MaxPosition	MinValue	MinPosition	BeamWidth	FrontBackRatio	PatternRipple
2400	1.88	127	-12.45	-177	51	6.31	14.33
2410	1.91	127	-12.04	-178	51	6.06	13.95
2420	1.84	126	-12.03	-177	52	5.76	13.87
2430	1.81	126	-11.88	-177	53	5.65	13.69
2440	1.96	127	-11.94	-177	54	5.74	13.9
2450	1.9	127	-12.26	-177	55	5.86	14.16
2460	2.05	128	-12.53	-177	55	6.25	14.58
2470	1.94	128	-12.96	-177	54	6.56	14.9
2480	1.56	128	-13.53	-177	54	6.71	15.09
2490	1.52	128	-13.75	-177	54	6.55	15.27
2500	1.46	127	-13.36	-178	54	6.15	14.82

Theta 90:



Frequen cy	MaxVal ue	MaxPositi on	MinVal ue	MinPositi on	BeamWi dth	FrontBackR atio	PatternRip ple
2400	-2.85	289	-11.53	38	186	2.2	8.68
2410	-2.69	289	-11.02	39	185	2.18	8.33
2420	-2.54	289	-10.41	39	186	2.19	7.87
2430	-2.49	290	-10	20	188	2.1	7.51
2440	-2.3	290	-10.02	22	191	1.98	7.72
2450	-2.29	289	-10.22	23	195	1.79	7.93
2460	-2.21	288	-10.23	26	263	1.44	8.02
2470	-2.43	284	-10.58	29	268	1.27	8.15
2480	-2.85	283	-11.07	32	270	1.14	8.22
2490	-2.95	284	-11.11	33	271	1.03	8.16
2500	-3.06	286	-11.2	35	271	0.99	8.14