

PCB Bluetooth antenna test report

Product Name: Vaporizer (Electric fragrance diffuser)

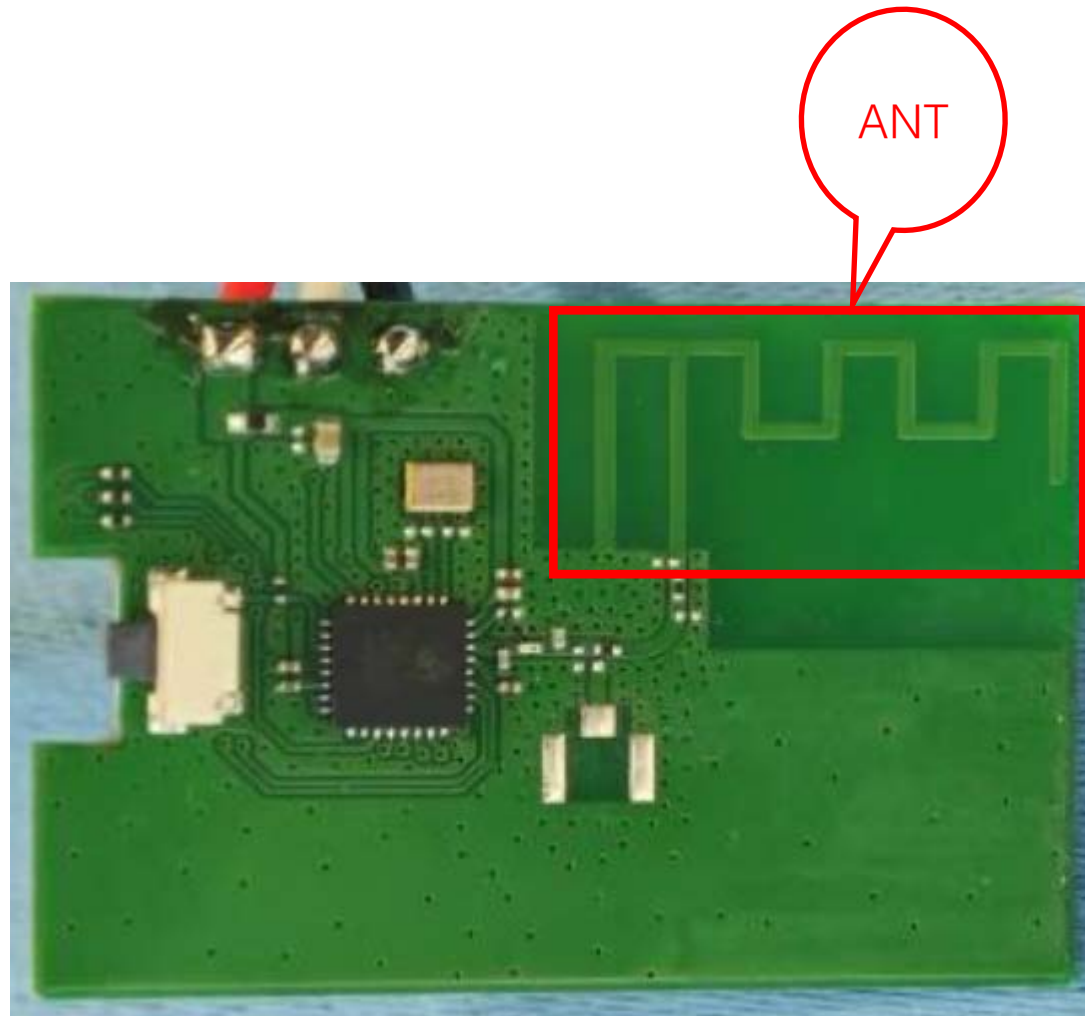
Trade Mark: PartyLite

Model/Type reference : PL01/PL02/PL03

Manufacturer: FN-LINK TECHNOLOGY LIMITED

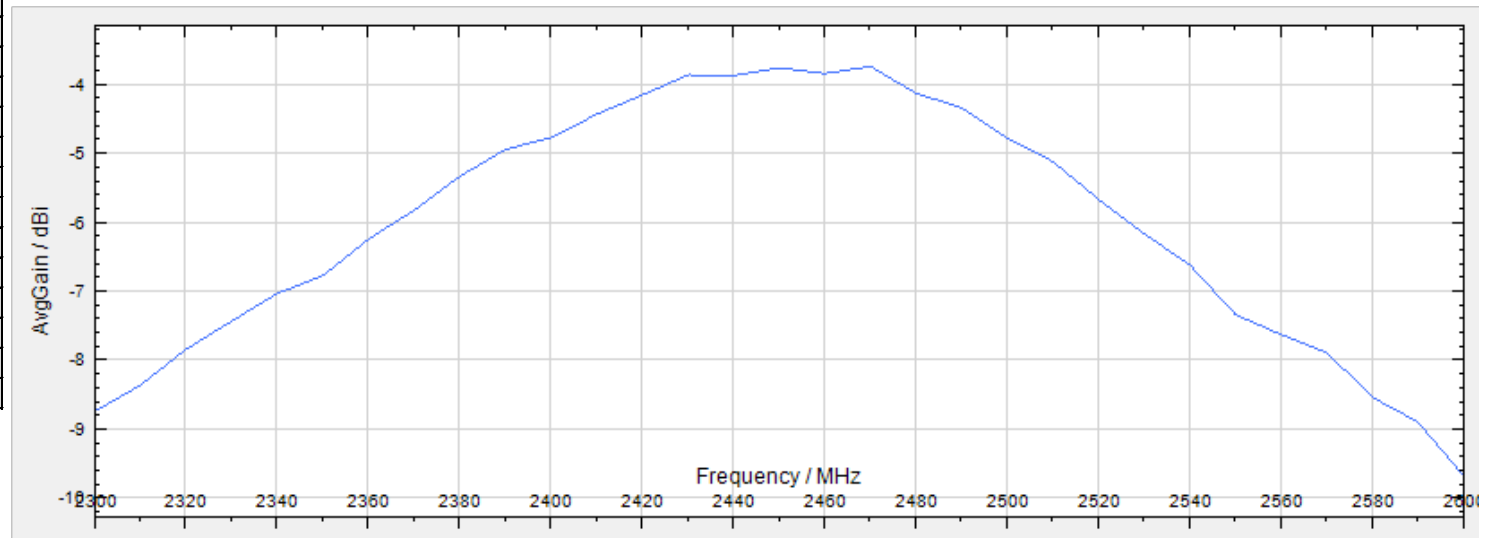
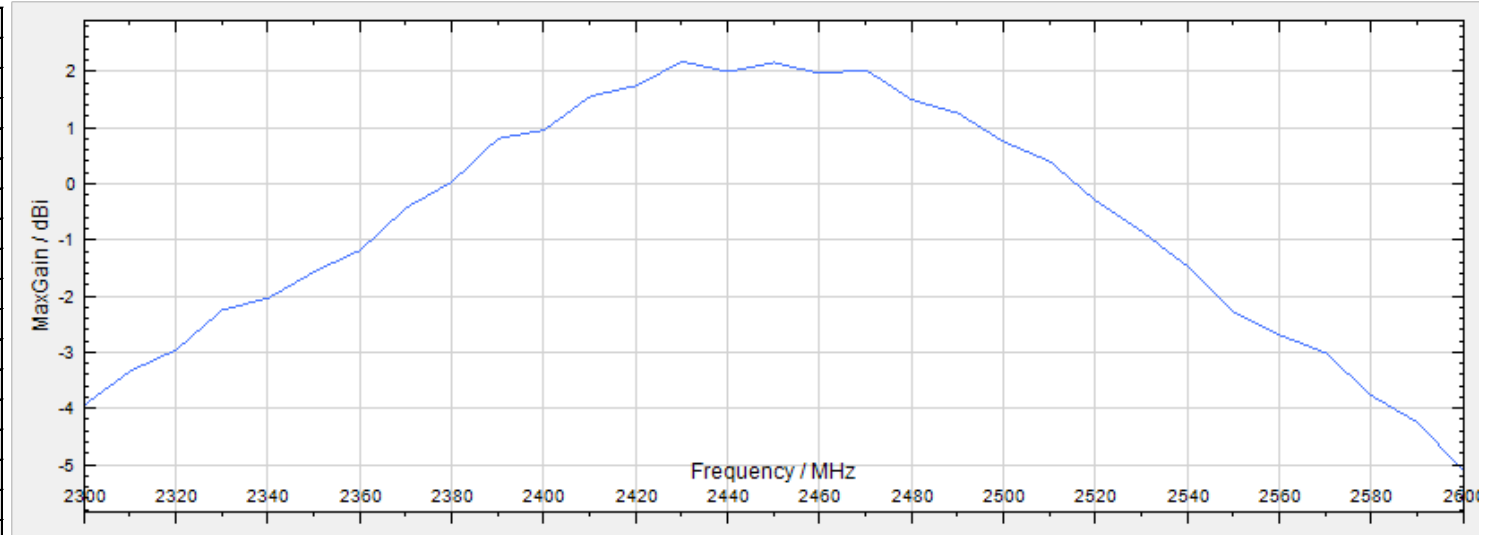
Address: No.8, Litong Road, Liuyang Economic & Technical
Development Zone, Changsha, Hunan, China 410329

Antenna Photo



Antenna gain

Frequency/MHz	MaxGain/dBi	AvgGain/dBi
2300	-3.92	-8.73
2310	-3.32	-8.35
2320	-2.94	-7.83
2330	-2.23	-7.42
2340	-2.02	-7.02
2350	-1.55	-6.76
2360	-1.17	-6.23
2370	-0.41	-5.81
2380	0.05	-5.32
2390	0.82	-4.93
2400	0.97	-4.76
2410	1.57	-4.42
2420	1.76	-4.14
2430	2.19	-3.85
2440	2.01	-3.86
2450	2.17	-3.75
2460	1.98	-3.83
2470	2.04	-3.73
2480	1.51	-4.12
2490	1.27	-4.33
2500	0.76	-4.77
2510	0.41	-5.11
2520	-0.29	-5.66
2530	-0.84	-6.16
2540	-1.46	-6.61
2550	-2.27	-7.33
2560	-2.68	-7.62
2570	-3	-7.88
2580	-3.76	-8.53
2590	-4.24	-8.89
2600	-5.1	-9.67



Antenna efficiency

Frequency/Mhz	Efficiency / dB	Efficiency / %
2300	-8.73	13.4
2310	-8.35	14.62
2320	-7.83	16.48
2330	-7.42	18.11
2340	-7.02	19.86
2350	-6.76	21.09
2360	-6.23	23.82
2370	-5.81	26.24
2380	-5.32	29.38
2390	-4.93	32.14
2400	-4.76	33.42
2410	-4.42	36.14
2420	-4.14	38.55
2430	-3.85	41.21
2440	-3.86	41.11
2450	-3.75	42.17
2460	-3.83	41.4
2470	-3.73	42.36
2480	-4.12	38.73
2490	-4.33	36.9
2500	-4.77	33.34
2510	-5.11	30.83
2520	-5.66	27.16
2530	-6.16	24.21
2540	-6.61	21.83
2550	-7.33	18.49
2560	-7.62	17.3
2570	-7.88	16.29
2580	-8.53	14.03
2590	-8.89	12.91
2600	-9.67	10.79

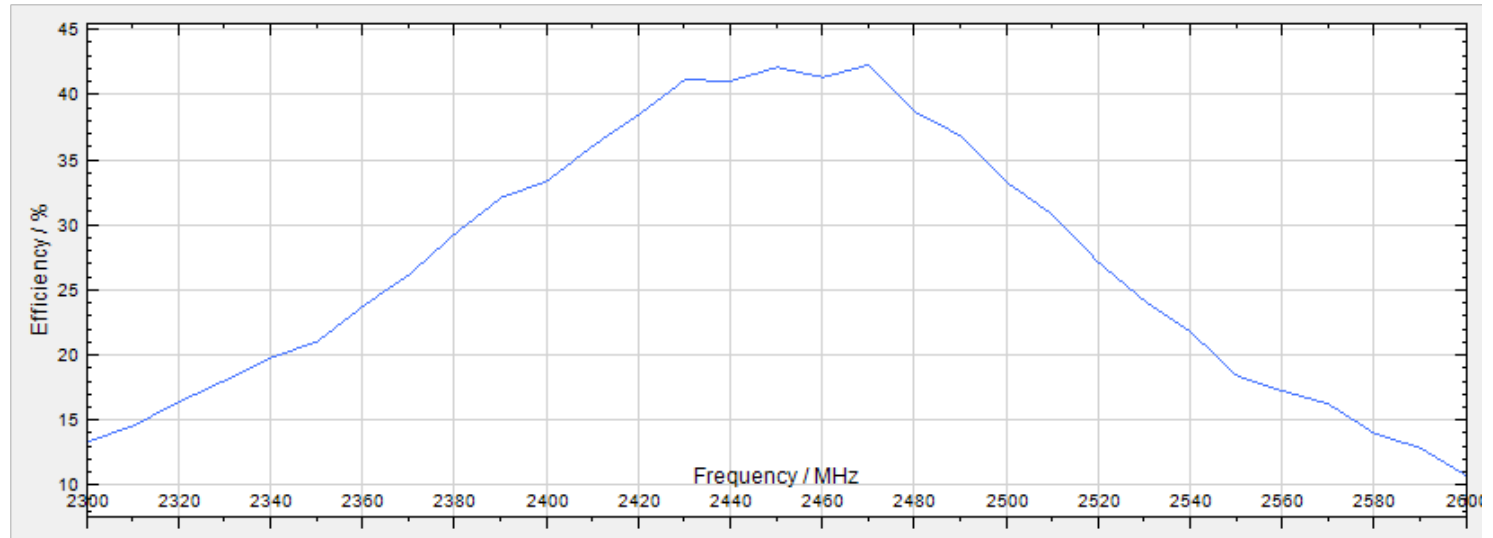
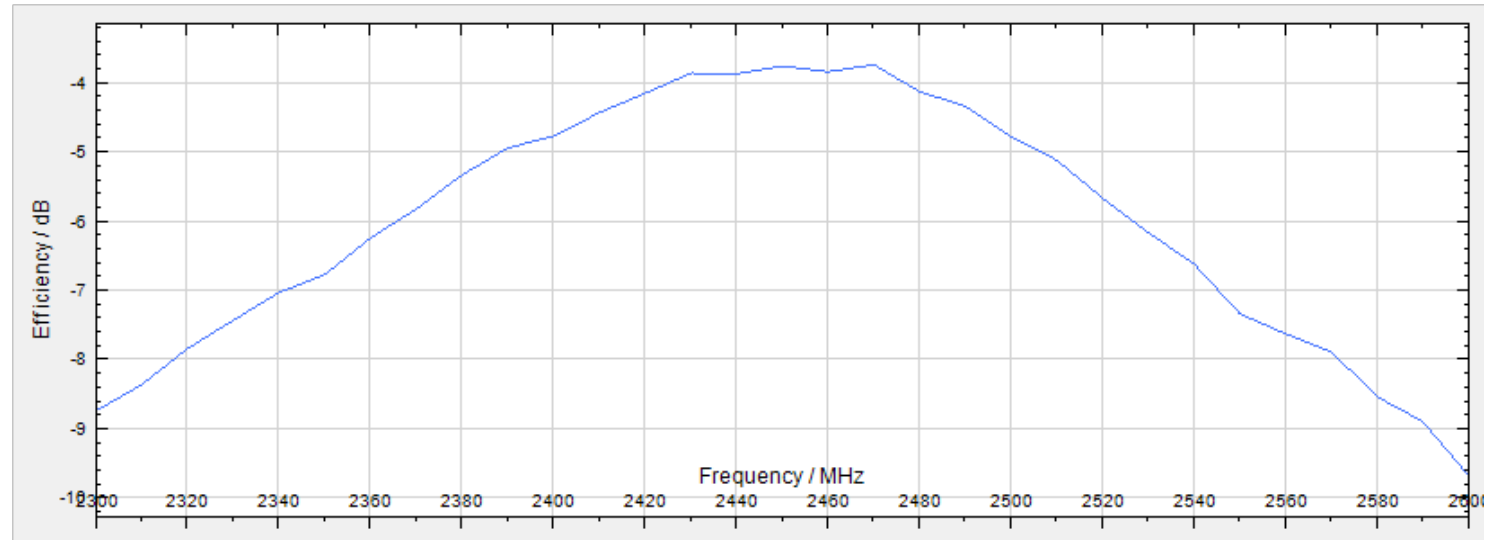


Diagram of direction

Phi=0

Frequency	AvgValue	MaxValue	MaxPosition	MinValue	MinPosition	BeamWidth	FrontBackRatio	PatternRipple
2300	0	-6.62	113	-19.17	-172	42	7.16	12.55
2310	0	-6.03	112	-19.18	-171	41	7.47	13.15
2320	0	-5.76	112	-18.55	152	43	7.38	12.79
2330	0	-4.94	111	-18.28	-171	42	8.24	13.34
2340	0	-4.79	111	-18.04	153	43	8.18	13.25
2350	0	-4.23	111	-18.1	-170	43	8.63	13.87
2360	0	-3.84	113	-17.46	-170	42	7.98	13.62
2370	0	-3.02	113	-17.6	-170	42	8.41	14.58
2380	0	-2.58	123	-16.71	-169	42	5.92	14.13
2390	0	-1.95	122	-16.24	-169	42	6.22	14.29
2400	0	-1.83	126	-15.63	154	43	5.6	13.8
2410	0	-1.44	126	-15.43	155	43	5.63	13.99
2420	0	-1.18	127	-14.98	155	43	5.47	13.8
2430	0	-0.89	128	-14.78	156	45	5.5	13.89
2440	0	-0.97	129	-14.63	156	44	5.36	13.66
2450	0	-0.81	129	-14.29	156	44	5.43	13.48
2460	0	-0.94	129	-14.16	157	44	5.15	13.22
2470	0	-0.86	128	-14.05	157	44	5.09	13.19
2480	0	-1.44	128	-14.45	157	45	4.58	13.01
2490	0	-1.58	128	-14.74	157	45	4.61	13.16
2500	0	-2.06	128	-15.11	157	46	4.22	13.05
2510	0	-2.3	128	-15.45	158	46	4.19	13.15
2520	0	-2.93	128	-15.75	158	46	3.76	12.82
2530	0	-3.22	128	-16.29	158	47	3.83	13.07
2540	0	-3.75	128	-16.61	159	47	3.64	12.86
2550	0	-4.46	128	-17.14	159	47	3.71	12.68
2560	0	-4.83	128	-16.73	160	49	3.71	11.9
2570	0	-5.16	128	-17.17	-170	51	3.75	12.01
2580	0	-5.89	129	-18.22	-169	52	3.97	12.33
2590	0	-6.33	129	-18.68	-169	54	4.1	12.35
2600	0	-7.16	128	-19.25	-168	56	4.22	12.09

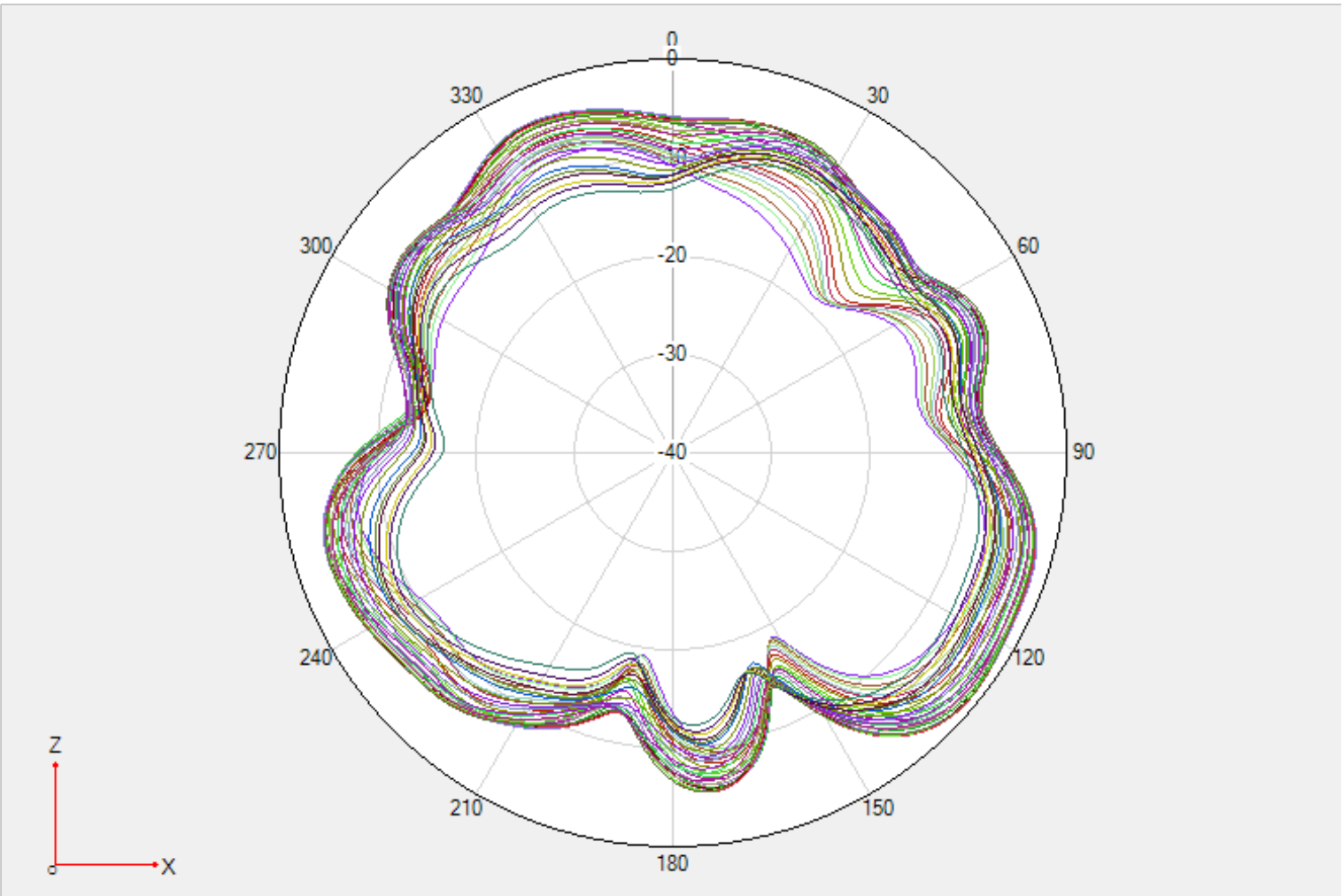
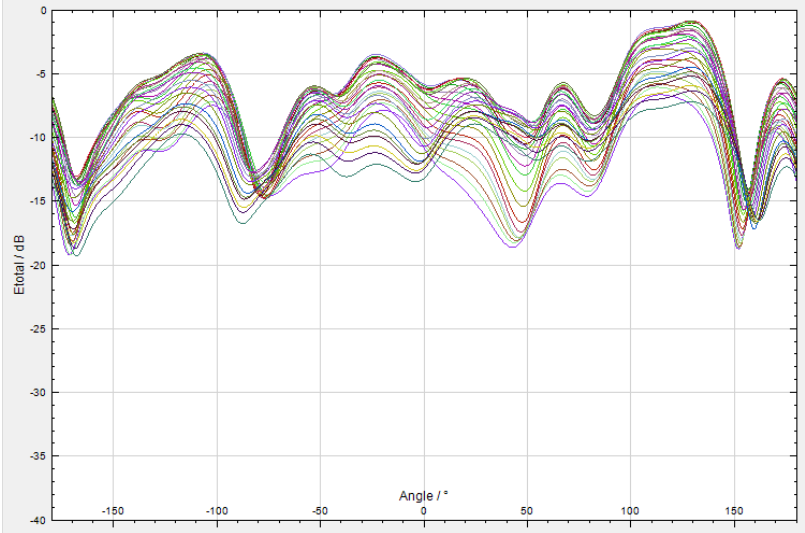


Diagram of direction

Phi=90

Frequency	AvgValue	MaxValue	MaxPosition	MinValue	MinPosition	BeamWidth	FrontBackRatio	PatternRipple
2300	0	-3.94	98	-14.33	176	42	3.06	10.39
2310	0	-3.34	98	-13.69	176	41	3.25	10.35
2320	0	-2.96	98	-13.11	177	41	3	10.15
2330	0	-2.24	98	-12.45	177	39	3.26	10.21
2340	0	-2.03	98	-12.04	177	41	3.11	10.01
2350	0	-1.56	99	-11.52	177	41	3.27	9.96
2360	0	-1.17	99	-11.02	177	42	3.25	9.85
2370	0	-0.43	99	-10.31	178	41	3.63	9.88
2380	0	0.03	100	-9.65	178	41	3.72	9.68
2390	0	0.8	100	-8.99	178	38	4.06	9.79
2400	0	0.95	100	-8.7	178	37	4.24	9.65
2410	0	1.53	100	-8.07	179	35	4.64	9.6
2420	0	1.72	100	-7.76	179	35	4.8	9.48
2430	0	2.15	101	-7.44	178	33	5.1	9.59
2440	0	1.97	101	-7.51	179	32	5.07	9.48
2450	0	2.13	100	-7.1	178	32	5.19	9.23
2460	0	1.94	100	-7.17	178	32	5.19	9.11
2470	0	2	100	-7.12	-58	31	5.28	9.12
2480	0	1.47	100	-7.71	-58	32	5.14	9.18
2490	0	1.24	100	-8	178	32	5.15	9.24
2500	0	0.72	100	-8.78	178	32	5.05	9.5
2510	0	0.38	100	-9.39	2	31	5.17	9.77
2520	0	-0.33	100	-10.24	2	32	5.07	9.91
2530	0	-0.88	100	-10.78	1	33	5.02	9.9
2540	0	-1.51	100	-11.45	178	35	4.75	9.94
2550	0	-2.32	100	-12.16	178	37	4.67	9.84
2560	0	-2.72	100	-12.36	178	39	4.64	9.64
2570	0	-3.04	100	-12.45	178	41	4.56	9.41
2580	0	-3.79	100	-12.87	64	43	4.75	9.08
2590	0	-4.26	100	-13.85	64	44	4.73	9.59
2600	0	-5.11	100	-15.16	65	44	4.97	10.05

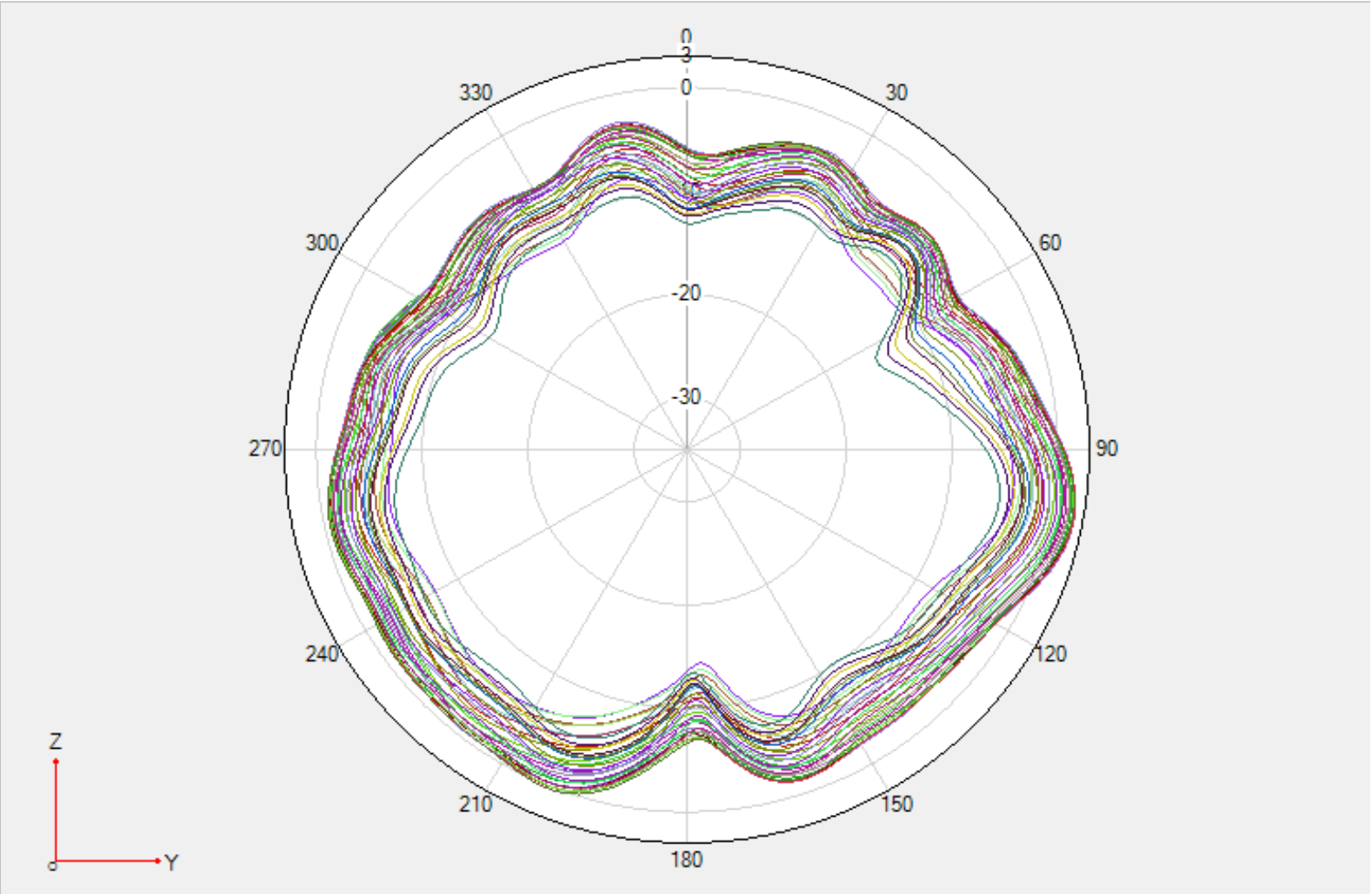
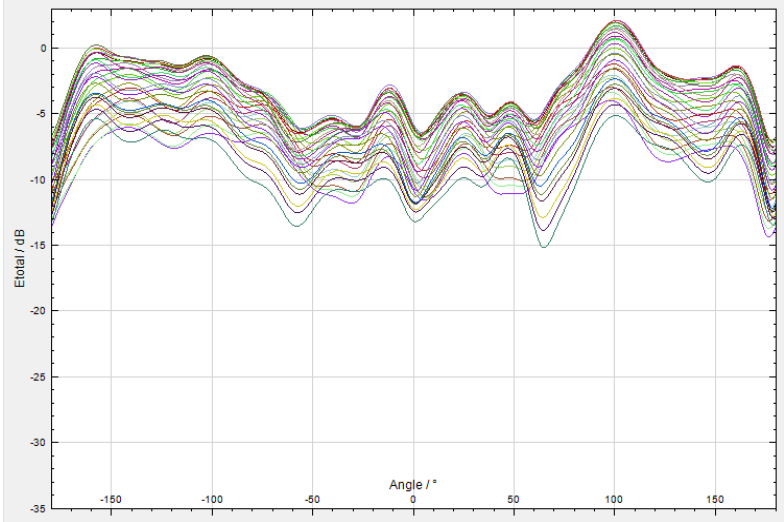
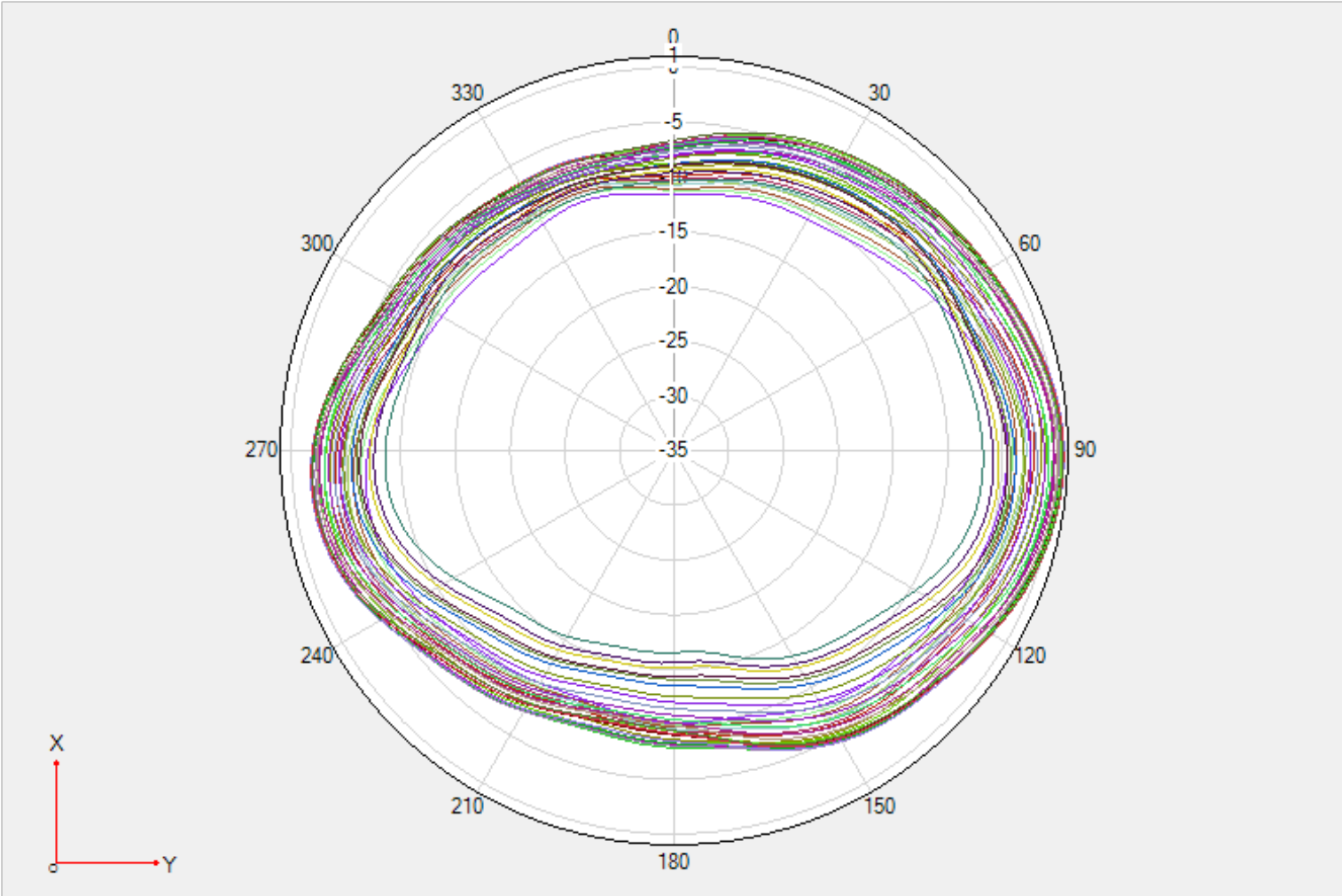
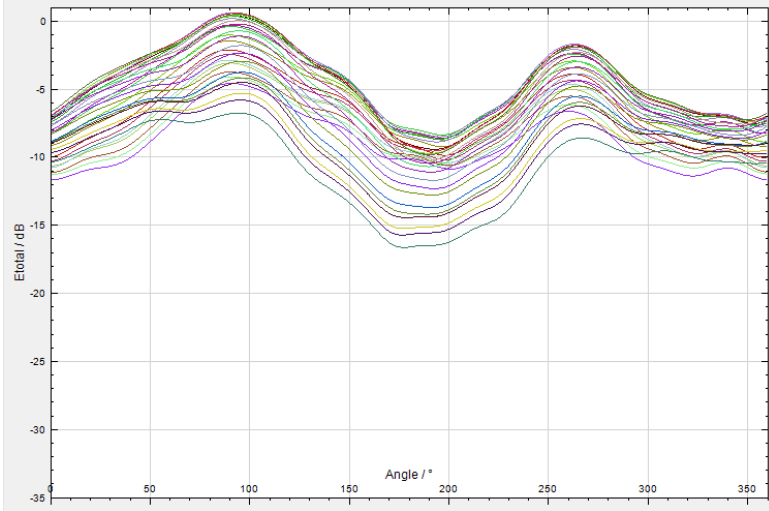


Diagram of direction

Theta=90

Frequency	AvgValue	MaxValue	MaxPosition	MinValue	MinPosition	BeamWidth	FrontBackRatio	PatternRipple
2300	0	-4.54	90	-11.63	0	82	2.5	7.09
2310	0	-4.06	90	-11.22	0	80	2.47	7.16
2320	0	-3.71	89	-11.07	0	82	2.08	7.36
2330	0	-3.05	90	-10.61	0	79	2.29	7.56
2340	0	-2.84	88	-10.72	0	77	1.97	7.88
2350	0	-2.42	89	-10.26	358	78	2.14	7.84
2360	0	-2.08	88	-9.99	357	78	1.95	7.91
2370	0	-1.42	89	-9.2	196	80	2.18	7.78
2380	0	-1	90	-8.84	357	79	2.19	7.84
2390	0	-0.37	90	-8.33	196	78	2.3	7.96
2400	0	-0.26	90	-8.57	195	76	2.33	8.31
2410	0	0.21	90	-8.46	194	76	2.53	8.67
2420	0	0.37	90	-8.64	194	74	2.5	9.01
2430	0	0.65	91	-8.85	193	74	2.65	9.5
2440	0	0.45	91	-9.39	192	75	2.52	9.84
2450	0	0.61	91	-9.52	191	76	2.64	10.13
2460	0	0.45	93	-9.7	190	77	2.74	10.15
2470	0	0.53	93	-9.79	190	78	2.8	10.32
2480	0	0.06	93	-10.21	189	76	2.71	10.27
2490	0	-0.19	93	-10.43	189	76	2.73	10.24
2500	0	-0.69	94	-10.66	189	77	2.72	9.97
2510	0	-1.08	94	-11.06	189	79	2.73	9.98
2520	0	-1.77	94	-11.67	190	83	2.51	9.9
2530	0	-2.32	95	-12.28	192	85	2.52	9.96
2540	0	-2.92	95	-12.74	190	90	2.28	9.82
2550	0	-3.74	95	-13.66	189	94	2.2	9.92
2560	0	-4.14	95	-14.16	188	97	2.23	10.02
2570	0	-4.48	95	-14.4	177	99	2.13	9.92
2580	0	-5.27	95	-15.21	176	102	2.23	9.94
2590	0	-5.77	94	-15.68	175	105	2.03	9.91
2600	0	-6.73	93	-16.59	176	108	1.98	9.86



Apple Picture

