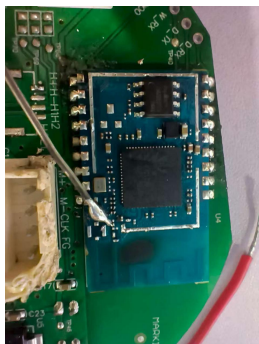
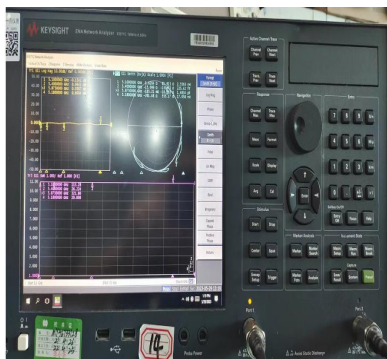


Test Specification

Project: EL3394-P ANT

Manufacturer: FN-LINK TECHNOLOGY LIMITED

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



RF Test Procedure:

1. Connect the module's RF test point to the E5071C test instrument.
2. Set the module to a fixed-frequency receive mode and verify the S11 parameter at the port.

Antenna S11 Test Procedure:

1. Solder a copper pin to the module's antenna feed point and connect it to the E5071C test instrument.
2. Verify the S11 parameter at the antenna port.

S11:



Test Items	standard	Frequency		
		2412	2442	2472
S11 RL(dB)		-17.868	-21.676	-20.275

OTA test report

Ite m	Measur ement	Azimu t hs	Elevatio ns	Standard	Band	Ch an nel	Frequ ency	Max	Min	Total
1	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	17.19	4.76	14.36
2	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	7	2442	17.23	4.35	14.64
3	TRP	Every30	Every30	WIFI (AP)	WIFI_B (11M)	13	2472	18.39	2.36	15.03
4	TIS(EIR P)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	1	2412	-77.83	-88.24	-85.1
5	TIS(EIR P)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	7	2442	-78.27	-89.21	-85.77
6	TIS(EIR P)	Every30	Every30	WIFI (AP)	WIFI_B (11M)	13	2472	-75.53	-85.89	-83.17
7	TRP	Every30	Every30	WIFI (AP)	WIFI_G (54M)	1	2412	16.7	5.02	13.83
8	TRP	Every30	Every30	WIFI (AP)	WIFI_G (54M)	7	2442	15.94	3.31	13.25
9	TRP	Every30	Every30	WIFI (AP)	WIFI_G (54M)	13	2472	14.45	-0.51	11.48
10	TRP	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	15.59	4.15	12.83
11	TRP	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	7	2442	15.97	3.28	12.83
12	TRP	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	13	2472	13.38	1.32	10.61
13	TIS(EIR P)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	1	2412	-67.32	-77.02	-73.51
14	TIS(EIR P)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	7	2442	-68.5	-77.26	-74.41
15	TIS(EIR P)	Every30	Every30	WIFI (AP)	WIFI_G (54M)	13	2472	-68.29	-77.11	-74.22
16	TIS(EIR P)	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	1	2412	-65.59	-75.07	-72.06
17	TIS(EIR P)	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	7	2442	-65.23	-74.10	-71.36
18	TIS(EIR P)	Every30	Every30	WIFI (AP)	WIFI_N_ISM (65M)	13	2472	-66.04	-75.22	-72.41

P)				(65M)					
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Antenna Passive Testing

Efficiency data

Type of Antenna: PCB Antenna

Frequency/Mhz	Efficiency / dB	Efficiency / %
2412	-3.4	45.71
2417	-3.29	46.88
2422	-3.2	47.86
2427	-3.18	48.08
2432	-3.22	47.64
2437	-3.29	46.88
2442	-3.29	46.88
2447	-3.4	45.71
2452	-3.51	44.57
2457	-3.54	44.26
2462	-3.61	43.55
2467	-3.66	43.05
2472	-3.65	43.15

Gain data

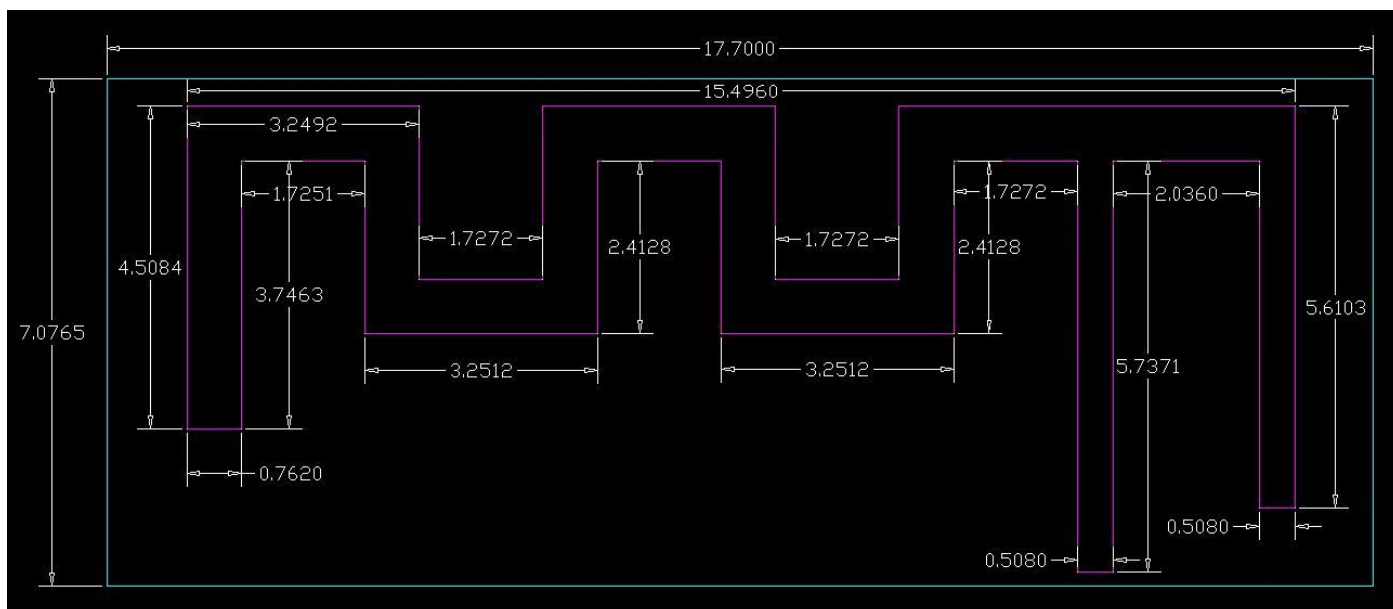
Frequency/MHz	MaxGain/dBi	AvgGain/dBi
2412	0.39	-3.4
2417	0.47	-3.29
2422	0.56	-3.2
2427	0.6	-3.18
2432	0.57	-3.22
2437	0.49	-3.29
2442	0.5	-3.29
2447	0.45	-3.4
2452	0.47	-3.51
2457	0.51	-3.54
2462	0.45	-3.61
2467	0.38	-3.66
2472	0.37	-3.65

EphiGain data

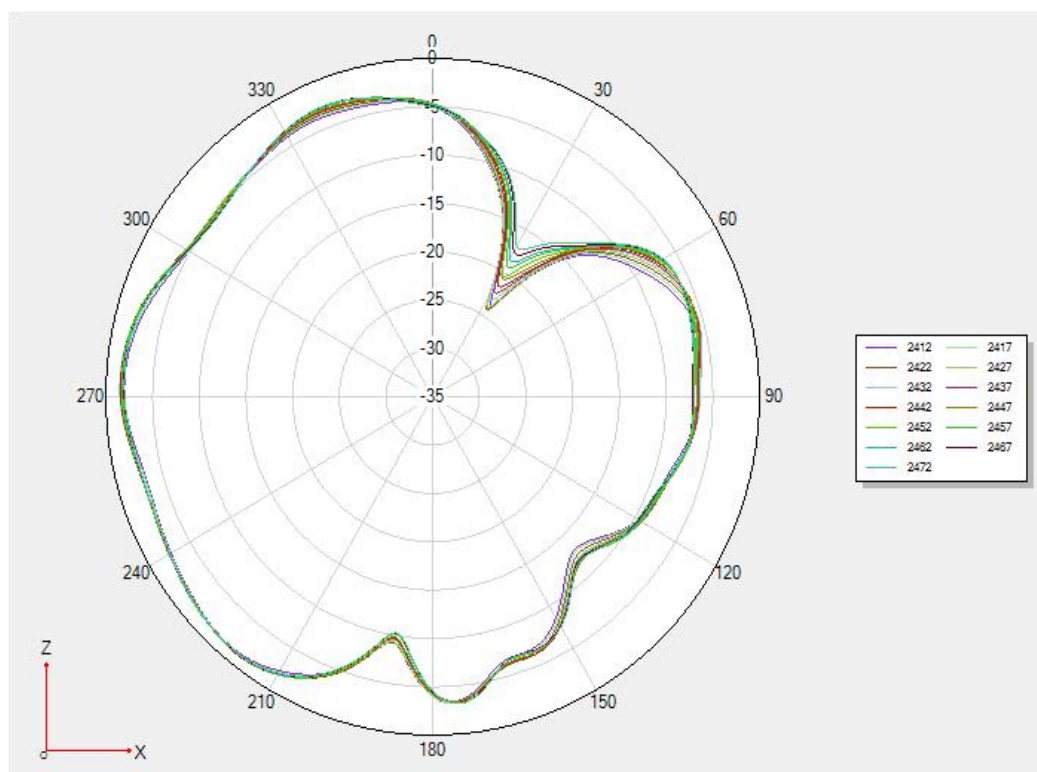
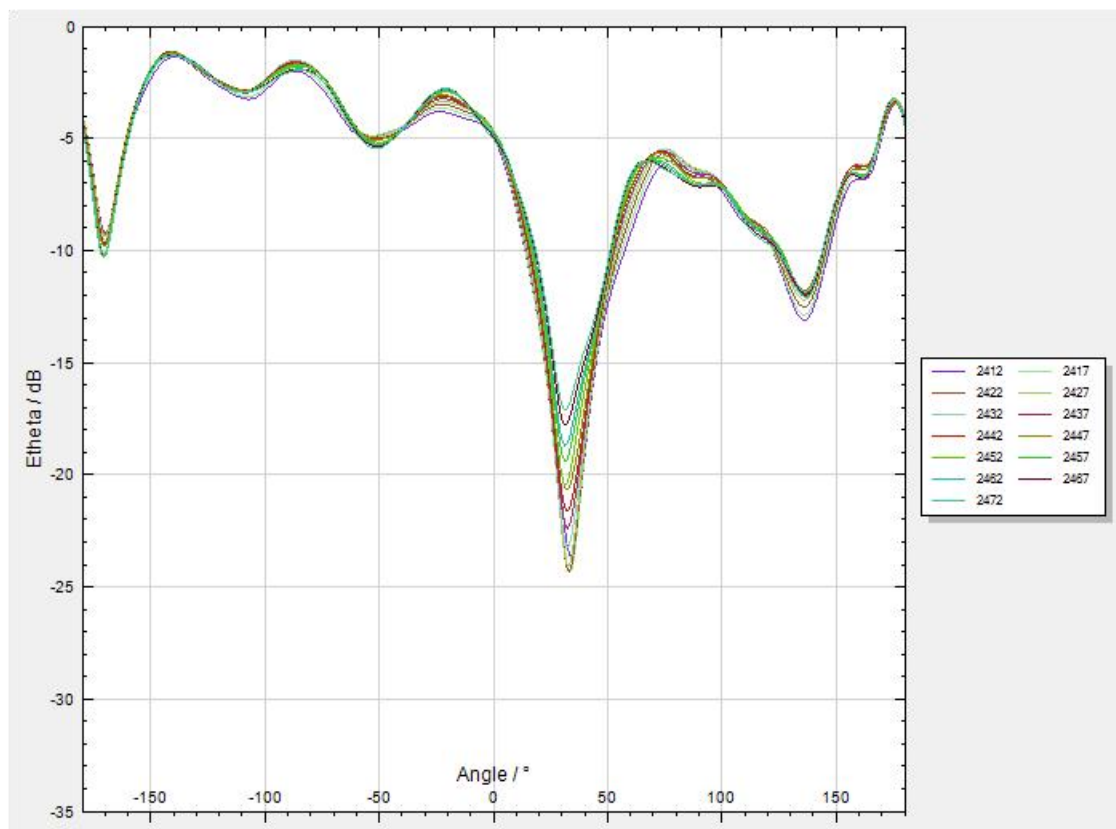
Frequency/MHz	MaxEphi/dBi	AvgEphi/dBi
2412	-0.22	-8.4
2417	-0.14	-8.27
2422	-0.07	-8.19
2427	-0.05	-8.18
2432	-0.12	-8.25
2437	-0.25	-8.34
2442	-0.3	-8.39
2447	-0.32	-8.51
2452	-0.3	-8.62
2457	-0.24	-8.62
2462	-0.25	-8.67
2467	-0.22	-8.7
2472	-0.2	-8.66

Antenna size diagram

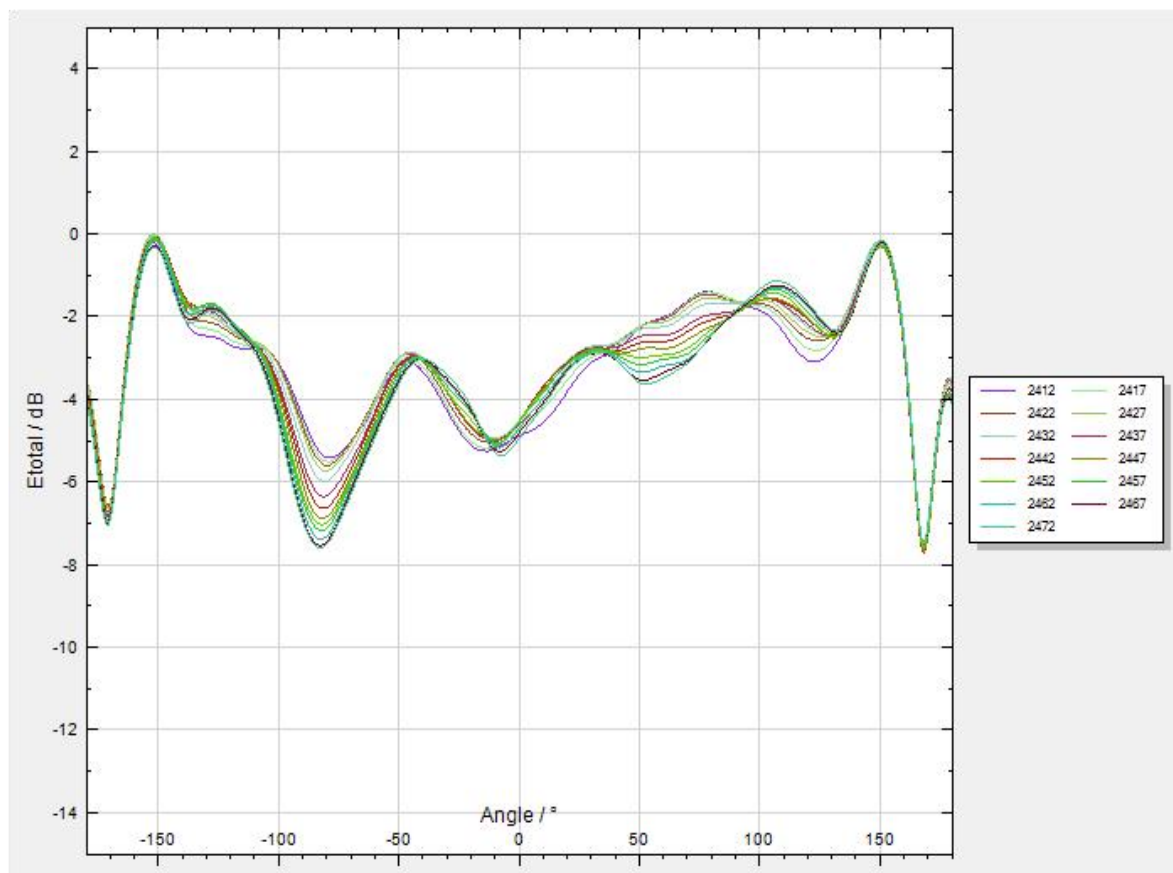
Unit: mm

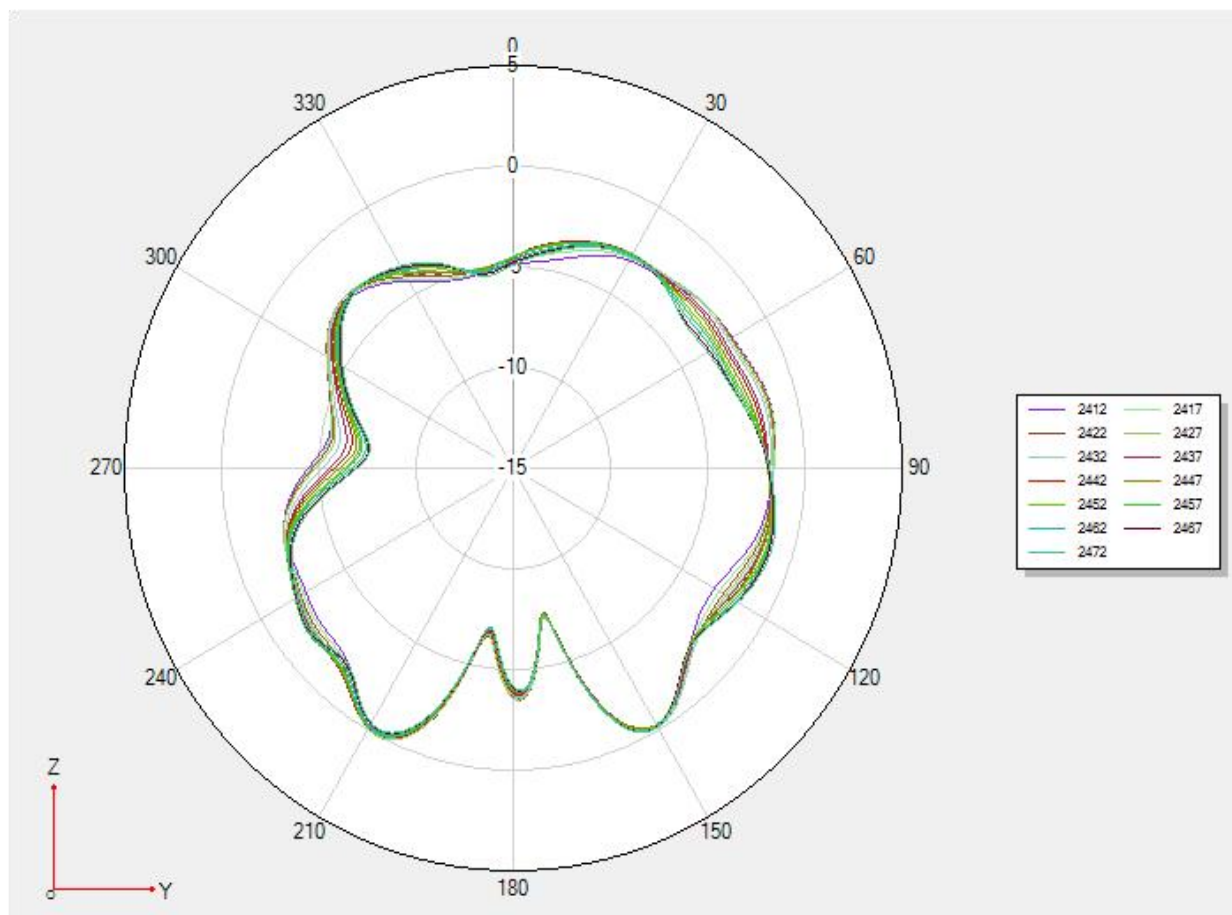


Phi 0 2D

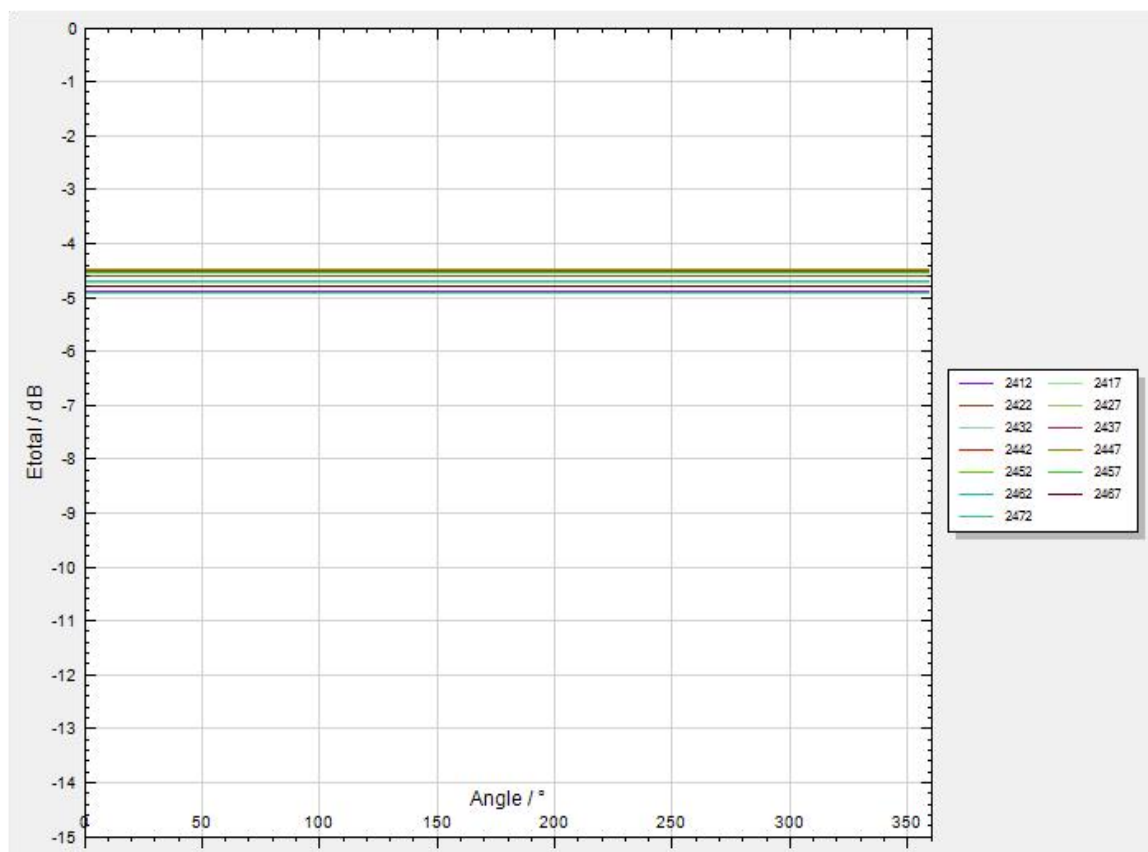


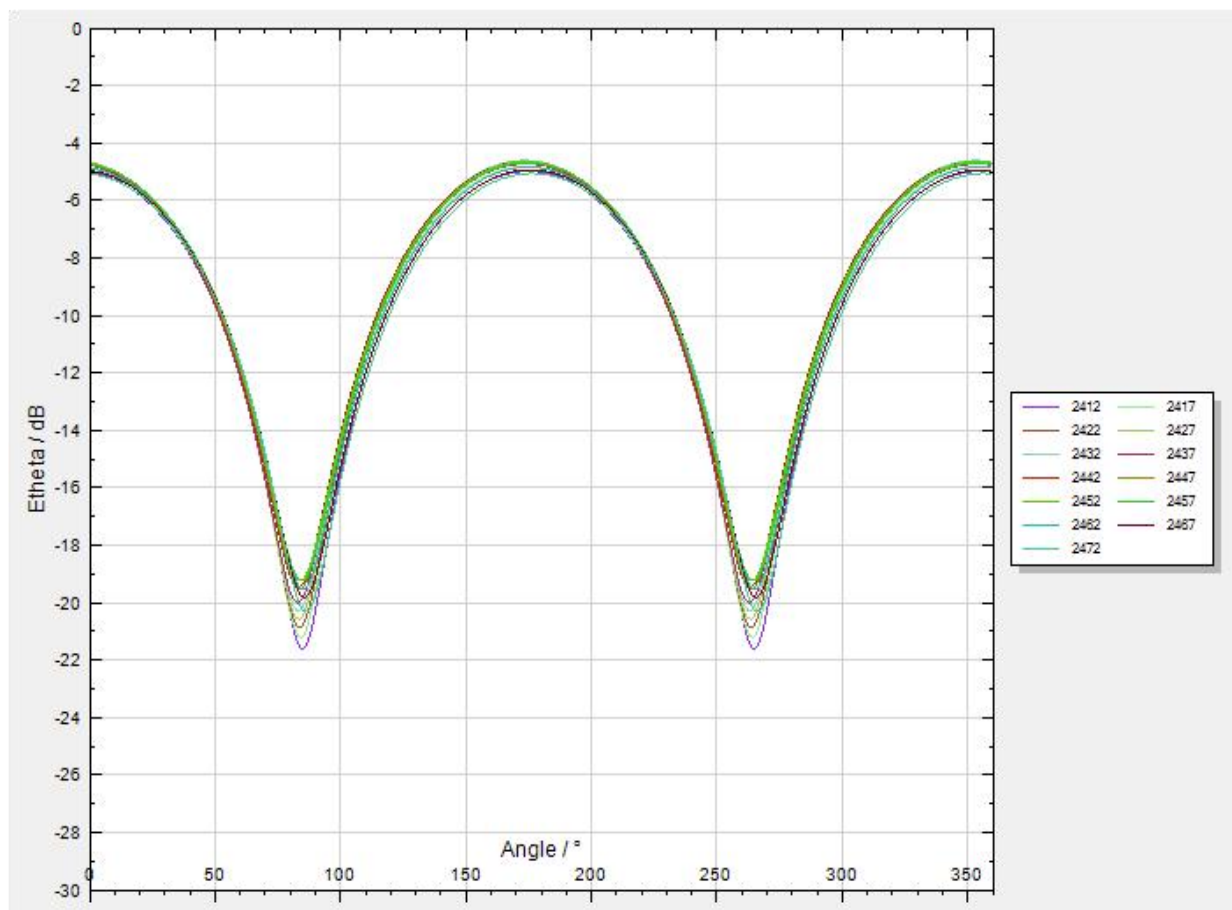
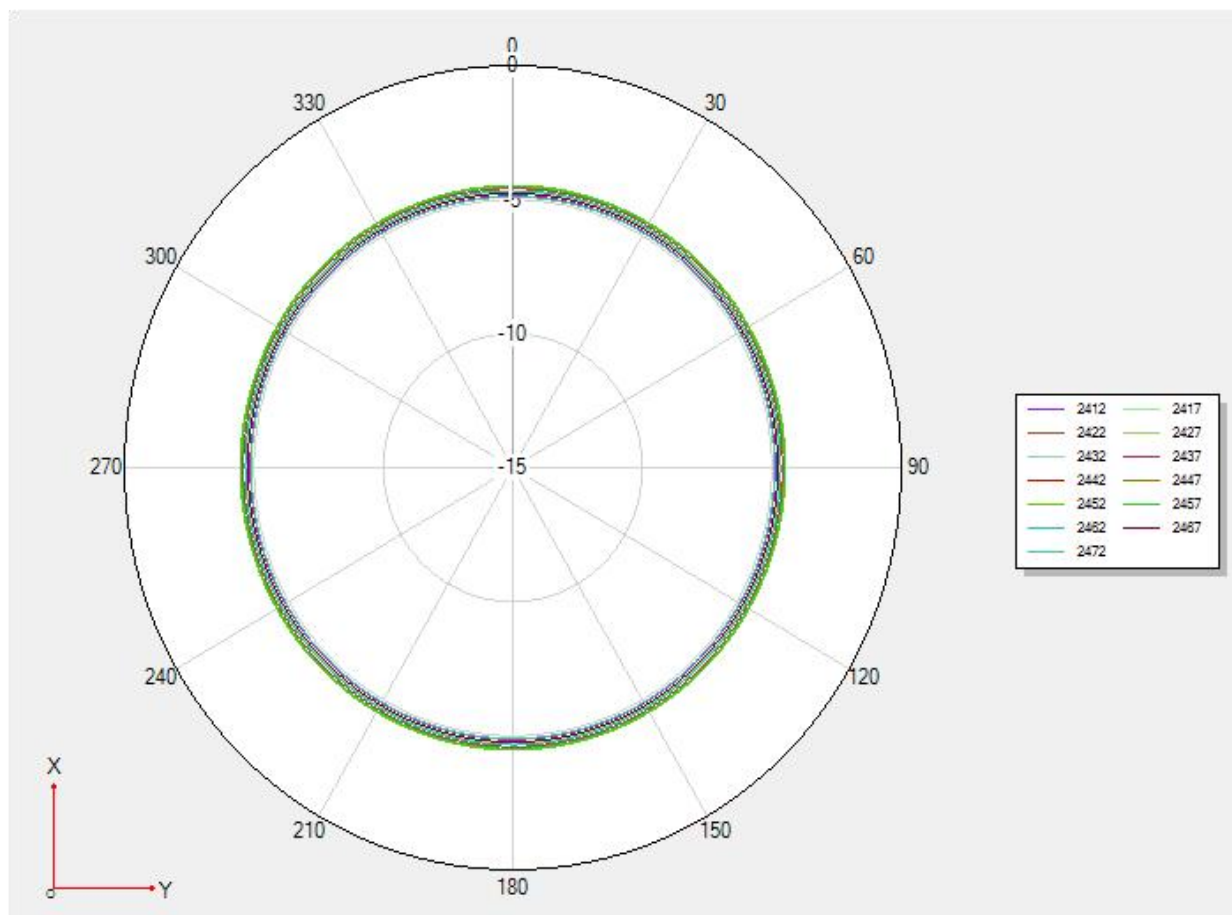
Phi 90 2D

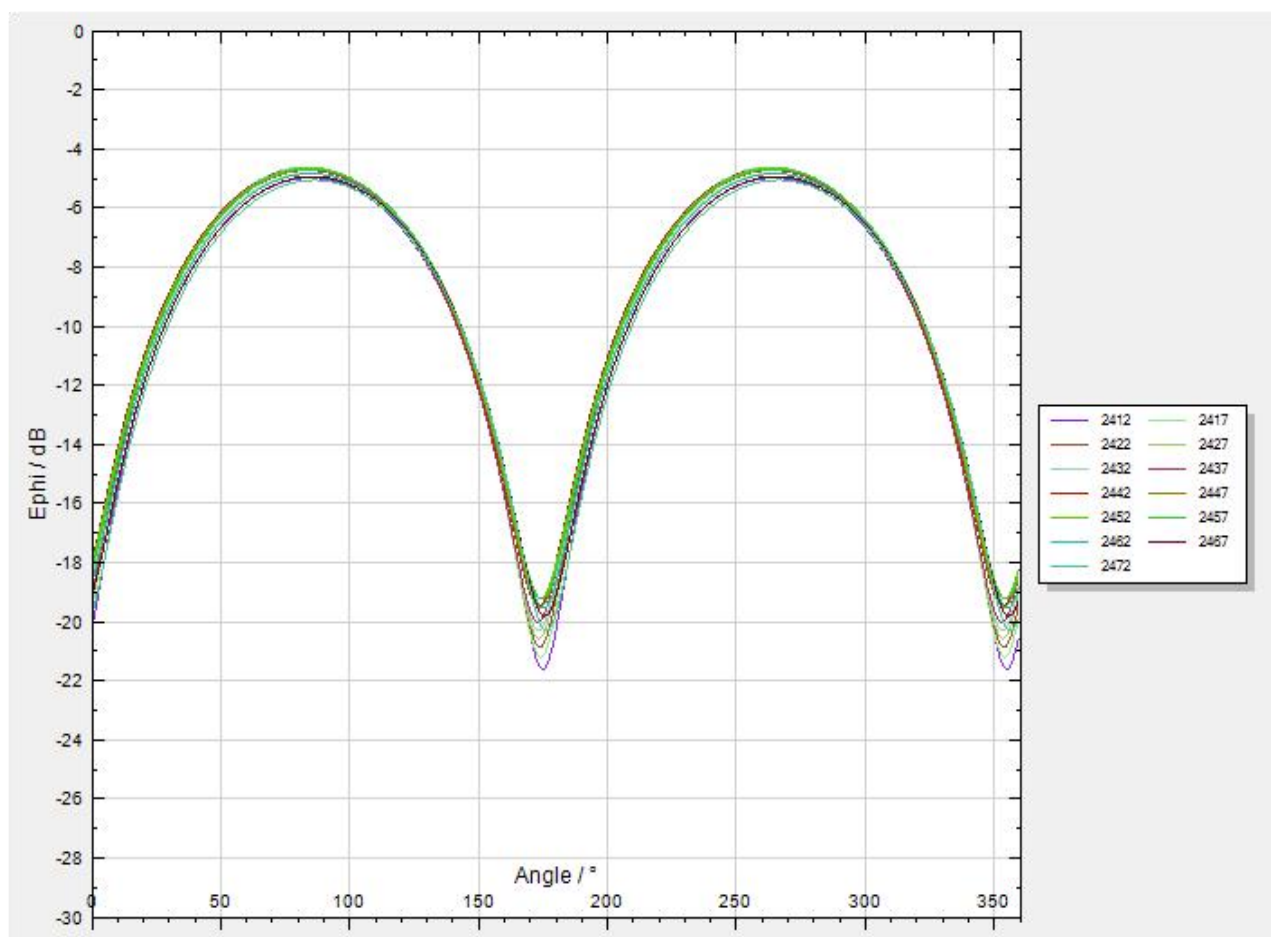
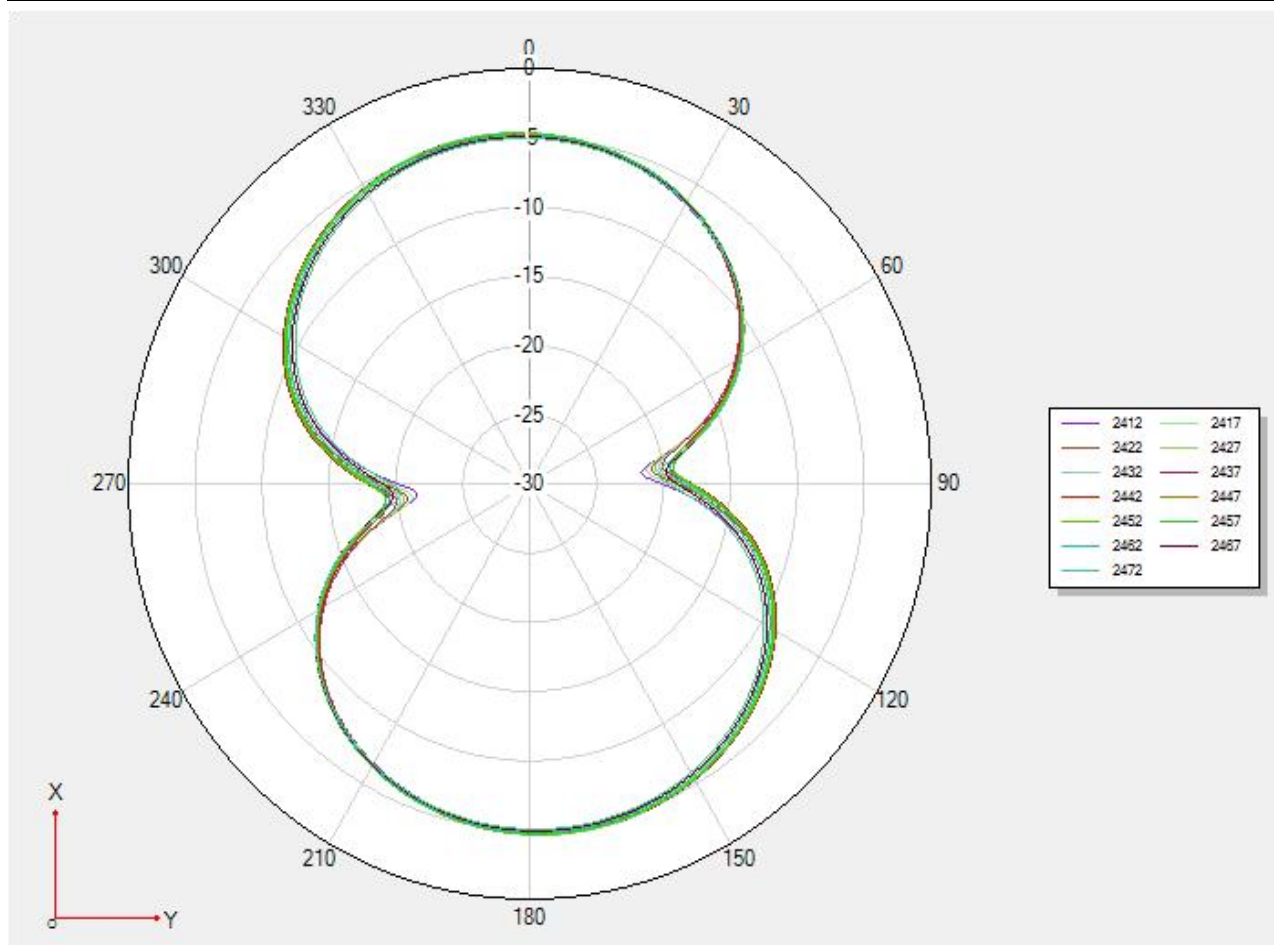


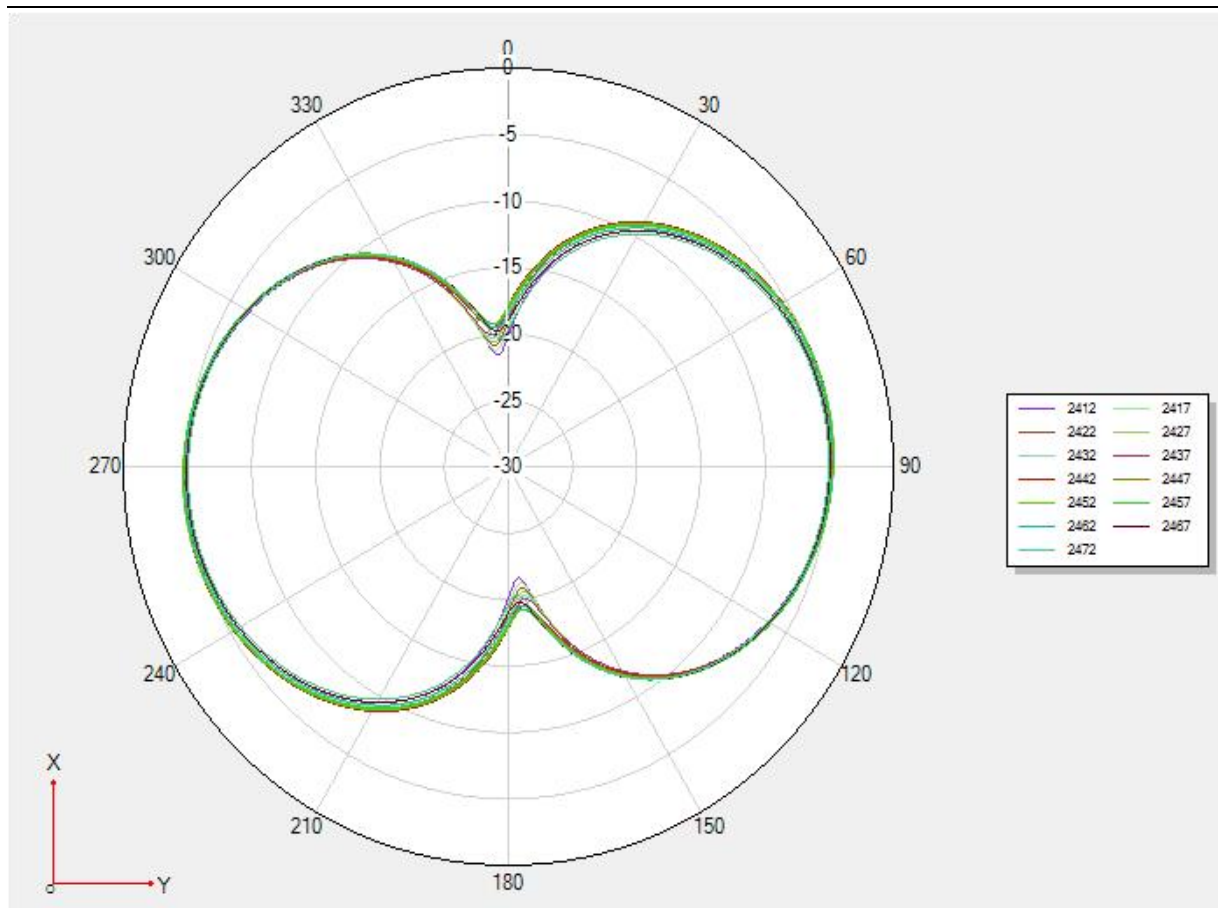


Theta 0 2D









3D Etotal

