

Antenna Specification

1. Antenna Information

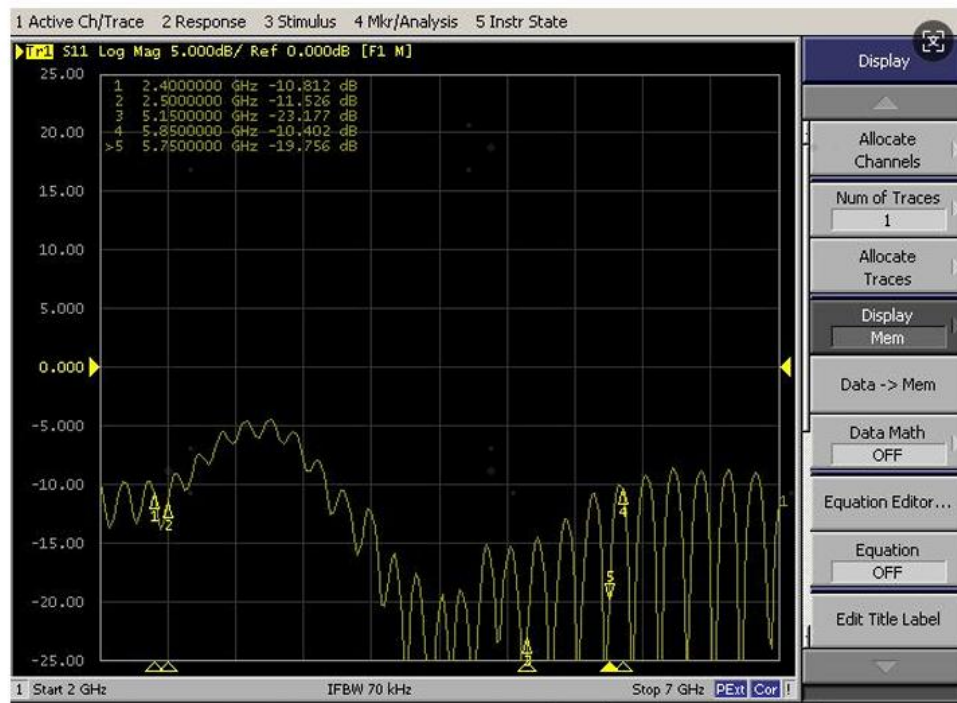
Antenna plate	PCB antenna
Make name/model name	HL7602SET
Antenna gain	2dBi
Frequency range	2.4GHz—2.483.5GHz/ 5.150 GHz —5.850GHz
Location of measurement (company name)	Hisense Home Appliances Group Co.,Ltd.Qingdao Branch
Address	Hisense R&D center, #399 Songling Road, Qingdao, Shandong, 266000, China

Antenna Test Diagram

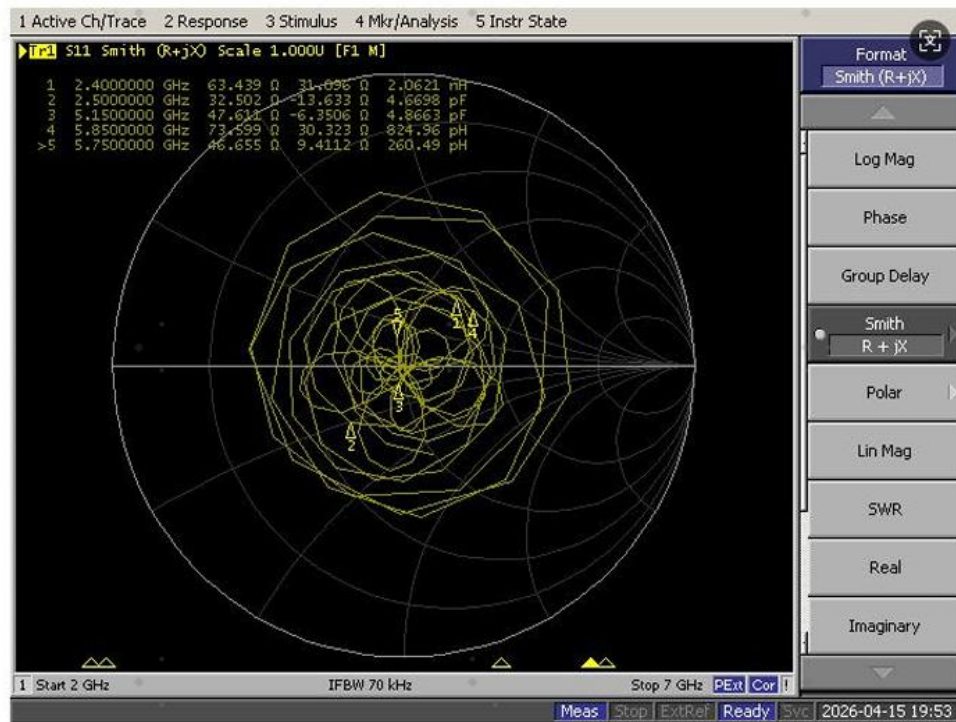


1- port antenna Standing wave diagram

1 return loss



2 smith



3 VSWR

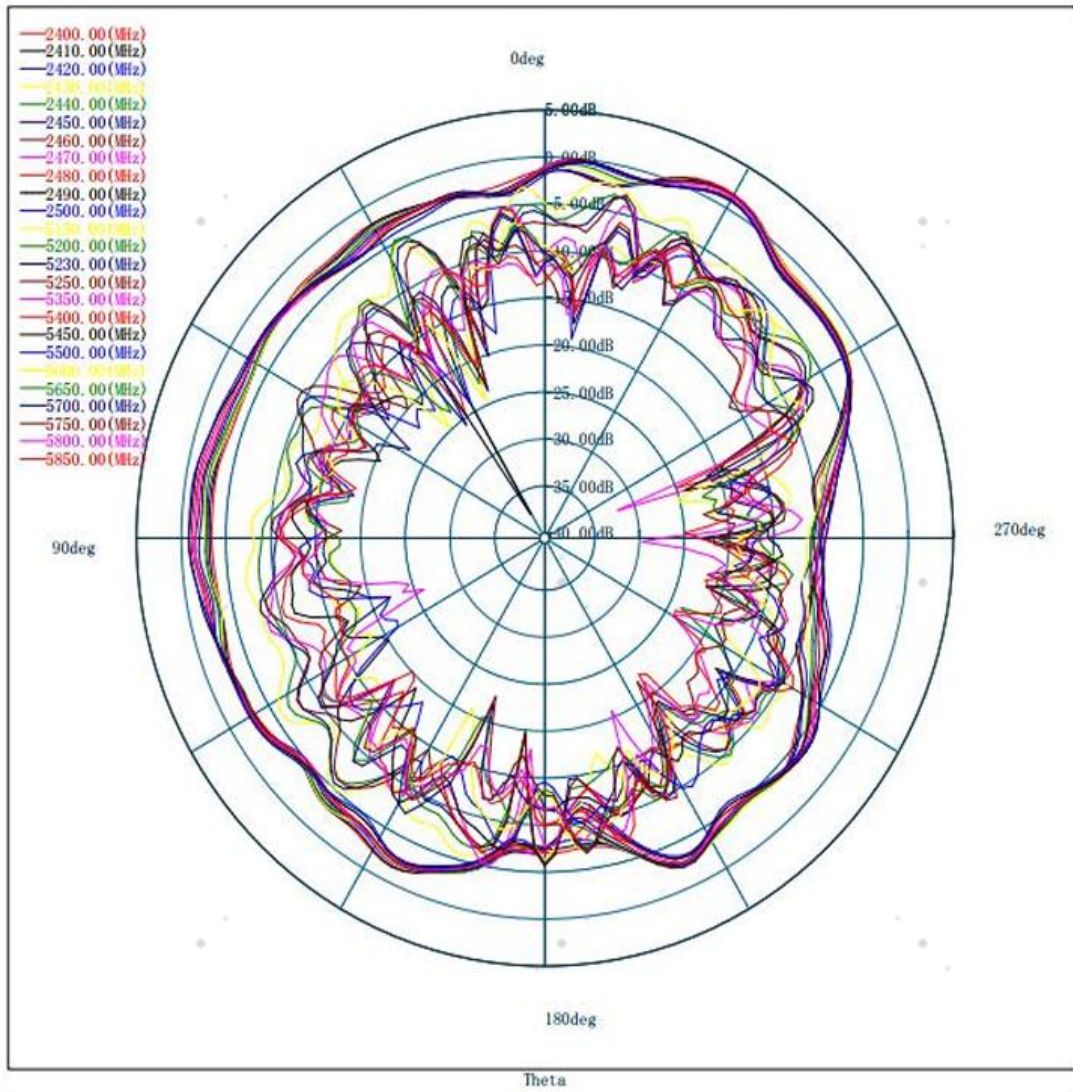


Antenna Efficiency

Frequency [Hz]	Efficiency	Max Gain [dBi]
2400000000	44%	2.547681716
2410000000	44%	2.34691452
2420000000	44%	2.281399526
2430000000	44%	2.225312145
2440000000	43%	2.230068829
2450000000	44%	2.290217503
2460000000	43%	2.313192246
2470000000	43%	2.22036352
2480000000	42%	1.981676987
2490000000	42%	1.866693745
2500000000	41%	1.777551818
5150000000	37%	3.441000177
5200000000	36%	3.073147169
5230000000	36%	3.305837029
5250000000	36%	3.665584833
5350000000	34%	3.814772732
5400000000	33%	3.048754039
5450000000	33%	2.907532228
5500000000	32%	2.775956387
5600000000	32%	2.683536035
5650000000	31%	1.925436028
5700000000	30%	1.561875366
5750000000	30%	1.799103343
5800000000	30%	2.029277505
5850000000	30%	2.847096643

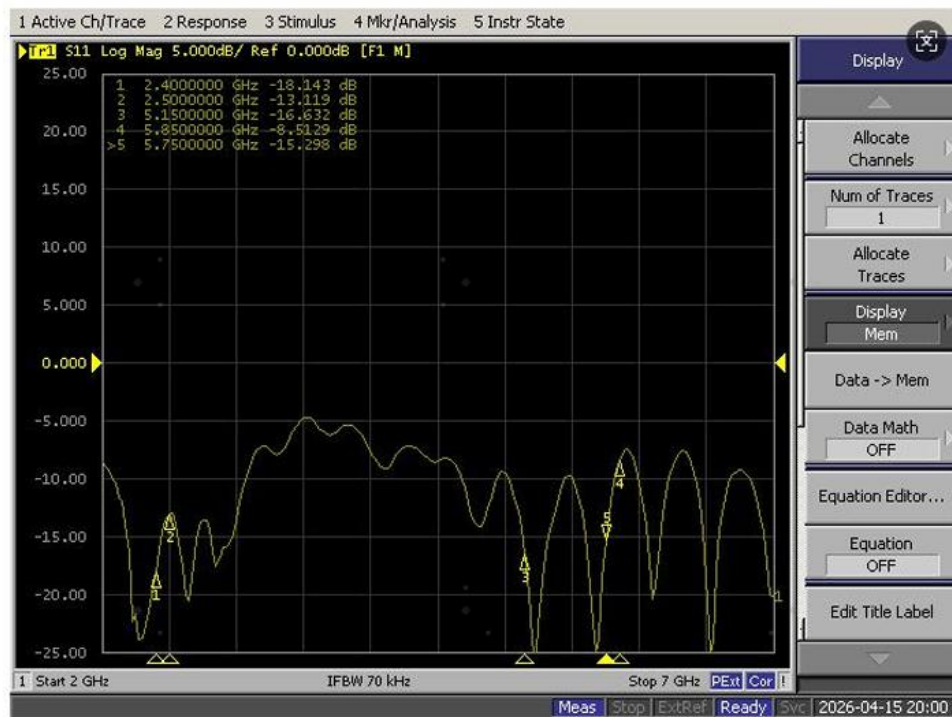
Antenna testing direction diagram

E2

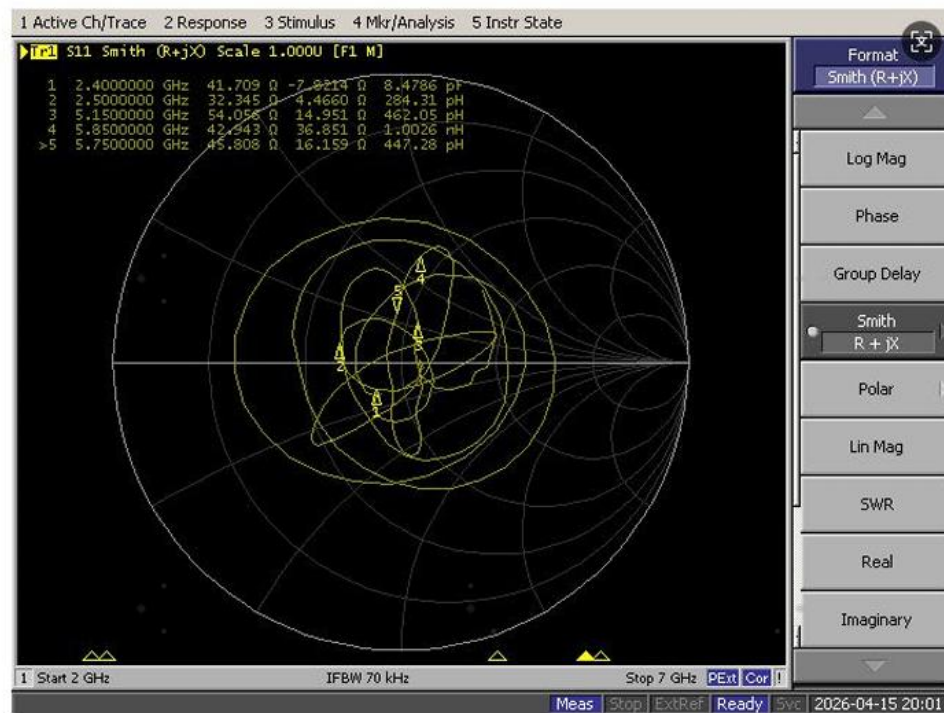


0- port antenna Standing wave diagram

1 return loos



2 smith



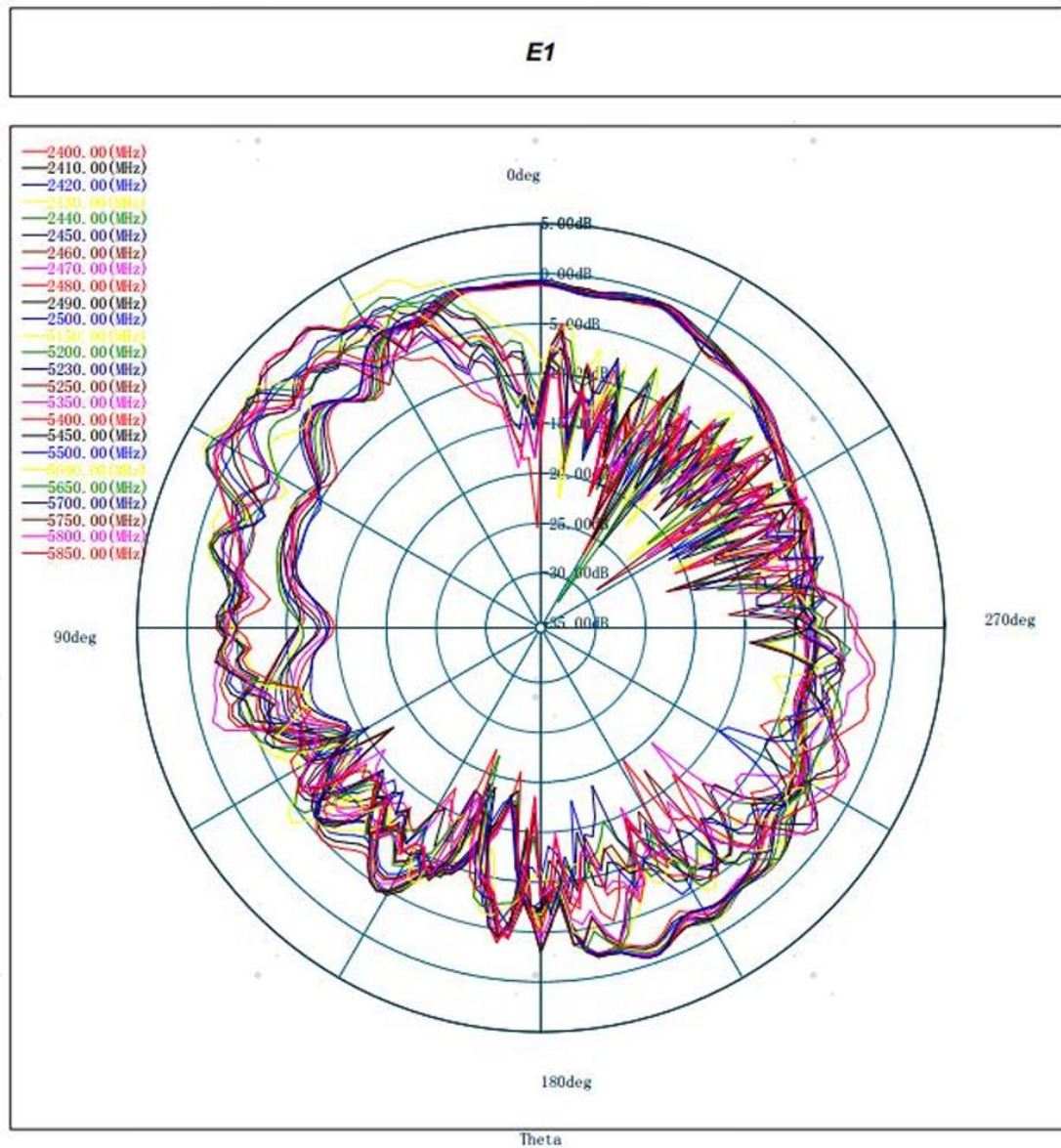
3 VSWR



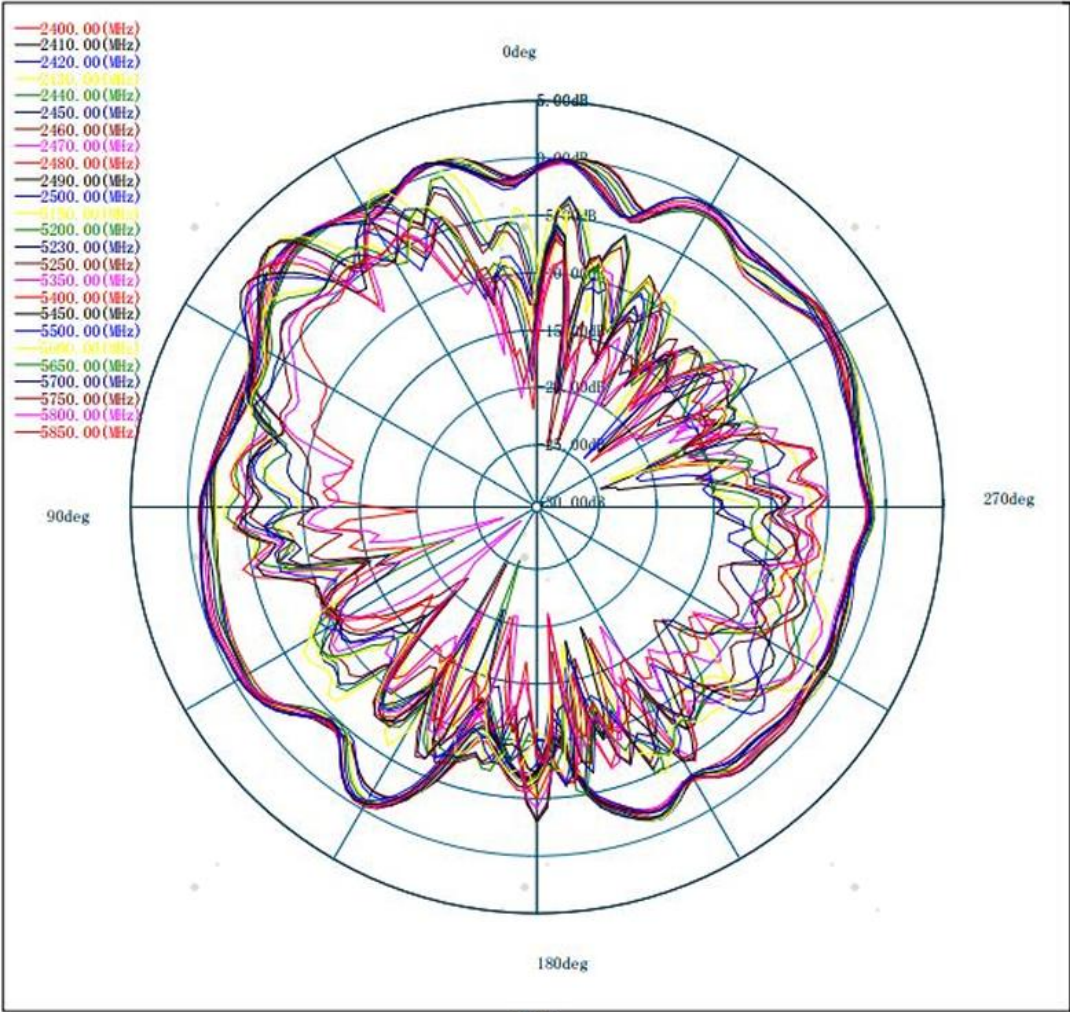
Antenna Efficiency

Frequency [Hz]	Efficiency	Max Gain [dBi]
2400000000	46%	2.986752493
2410000000	46%	2.848762769
2420000000	46%	2.602236665
2430000000	46%	2.243477006
2440000000	45%	2.024885991
2450000000	46%	2.232206225
2460000000	45%	2.160249902
2470000000	44%	2.16666296
2480000000	44%	2.348787488
2490000000	44%	2.389277459
2500000000	43%	2.34841329
5150000000	38%	3.691692703
5200000000	37%	3.250372327
5230000000	35%	3.571875551
5250000000	34%	3.202246081
5350000000	35%	2.940469605
5400000000	34%	3.023058965
5450000000	34%	3.041028633
5500000000	33%	3.634518706
5600000000	34%	2.995756364
5650000000	34%	2.785314117
5700000000	33%	3.821819616
5750000000	31%	4.167502518
5800000000	29%	3.298448779
5850000000	29%	3.50041757

Antenna testing direction diagram



E2



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