

	Authors: 

Antenna SPEC

Revision History

Rev	Issue Date	Revisions	Revised By

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1 Introduction

This document describes the design verification tests. During the verification tests, the revision of deviations applied to and the serial number of the boards to be tested, and the diagnostic/SW version to be run on the boards will be logged. It describes the hardware RF design test data for RTL8720 Module used in Dark Chocolate. Included are statements of test purpose, test methodologies, test modes and parameters, environmental conditions, applicable specifications, and typical reference design performance. The test samples were placed in the enclosure during the test

1.1 Test samples information

- Samples: 1pcs PCB board
- Antenna type: on-board antenna

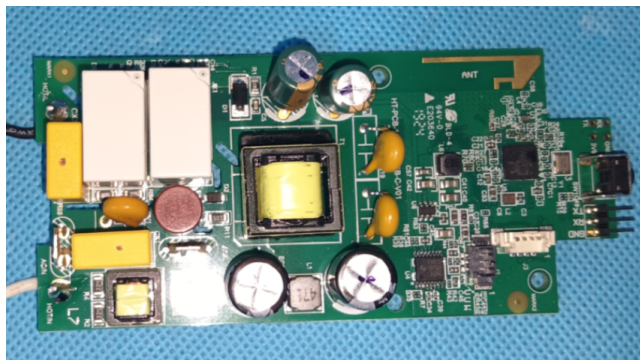
Antenna is a pattern on PCB, it is designed on PCB during PCB layout.

Antenna Model: Anova Polecat.

Antenna Manufacturer: Flex

Flex address:

Xinqing Science and Technology Industrial Park, Doumen, Zhuhai, Guangdong, China

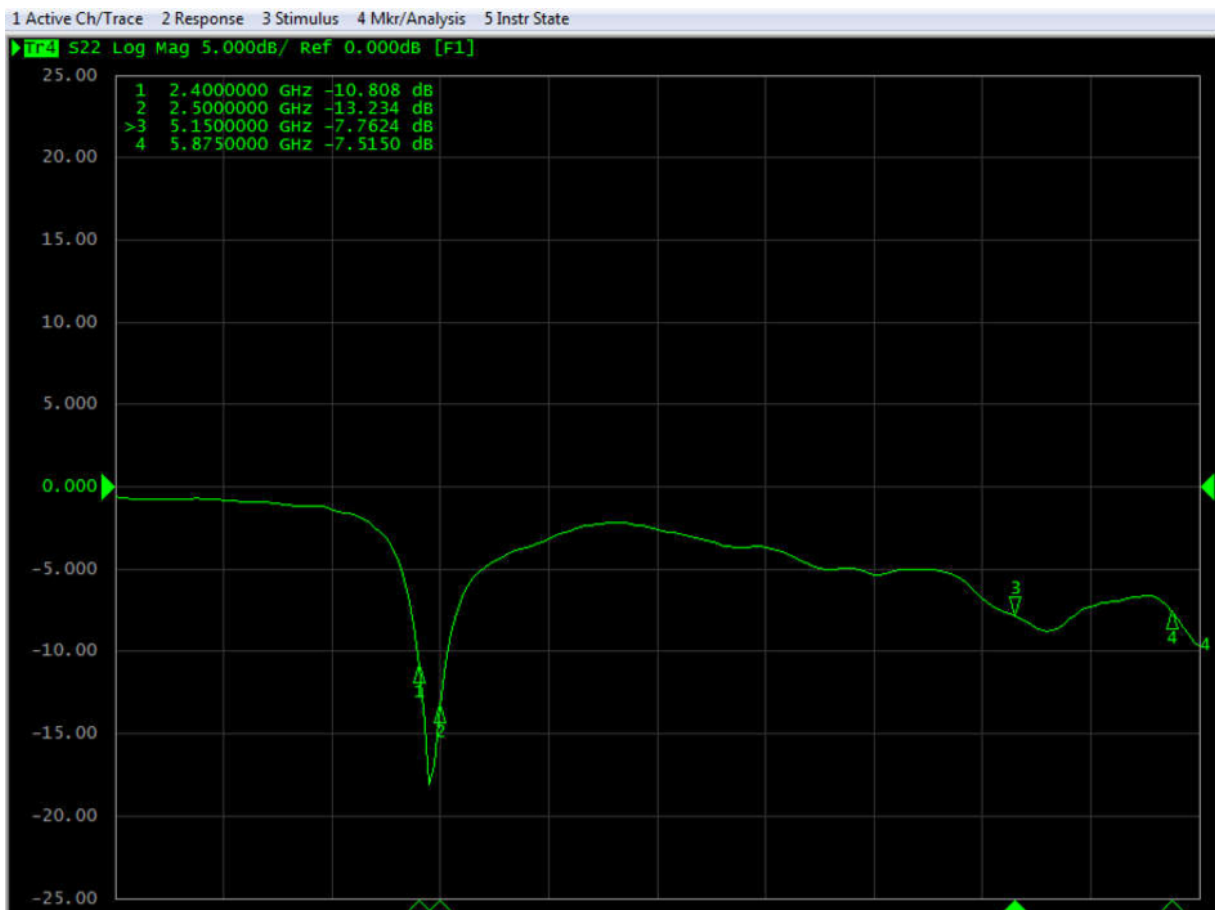


1.2 Test equipment information

- Satimo chamber
- Network analyzer

2 Test & Result

2.1 VSWR



2.2 Efficiency and Gain

Antenna max gain is 2.24dBi for 2.4GHZ and 2.97dBi for 5GHZ

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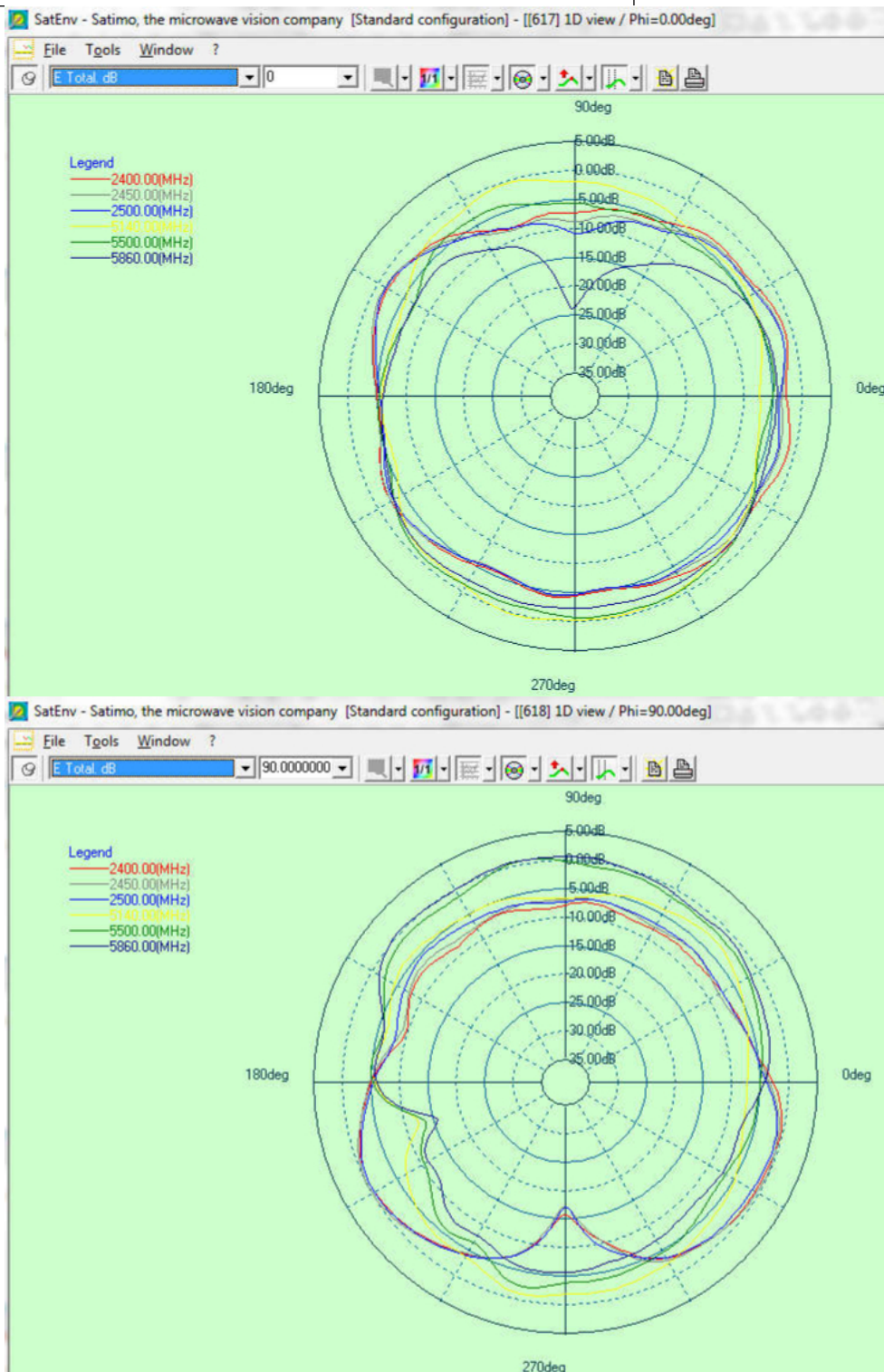
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Frequency (MHZ)	Efficiency	Gain(dBi)	Frequency (MHZ)	Efficiency	Gain (dBi)	Frequency (MHZ)	Efficiency	Gain (dBi)
2350	42%	1.72	5160	43%	2.89	5520	42%	2.94
2360	42%	1.74	5180	42%	2.38	5540	41%	2.91
2370	43%	2.01	5200	47%	2.98	5560	39%	2.96
2380	44%	2.07	5220	42%	2.69	5580	38%	2.95
2390	45%	1.97	5240	45%	2.94	5600	38%	2.72
2400	43%	1.90	5260	41%	2.74	5620	37%	2.80
2410	42%	2.07	5280	44%	2.81	5640	37%	2.66
2420	44%	2.24	5300	41%	2.46	5660	37%	2.45
2430	46%	2.07	5320	45%	2.60	5680	38%	2.12
2440	44%	1.97	5340	43%	2.49	5700	37%	2.14
2450	42%	2.07	5360	44%	2.32	5720	37%	1.91
			5380	44%	2.63	5740	37%	1.80
			5400	43%	2.87	5760	35%	1.92
			5420	44%	2.90	5780	34%	2.29
			5440	42%	2.82	5800	33%	2.26
			5460	43%	2.92	5820	35%	1.97
			5480	43%	2.77	5840	35%	1.95
			5500	42%	2.97	5860	37%	1.98

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