

DV8547 Ant Passive Test Report

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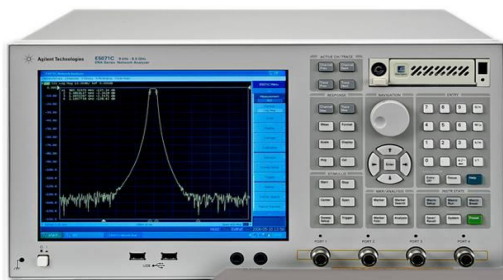
1. Test Information

1.1 Model No. DV8547, Operating Frequency Band : 2.4G-2.5GHz

1.2 This report is for adjusting the parameters of the on-board Bluetooth antenna matching for the DV8947

2. Testing Environment

ETS AMS 8500 OTA Chamber

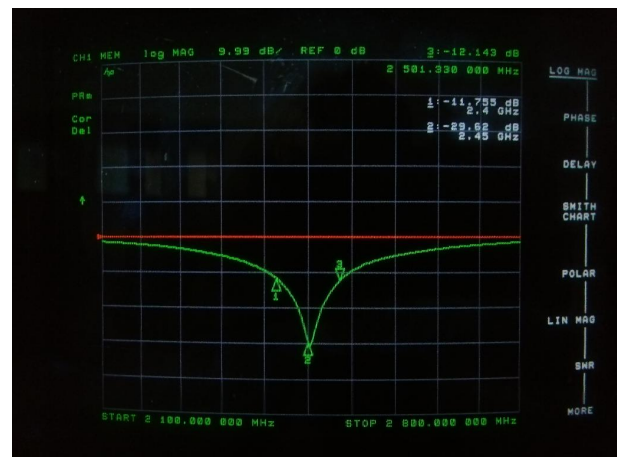
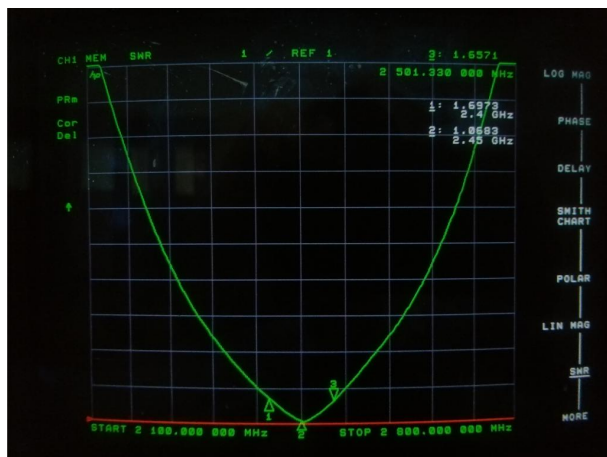


Agilent Vector Network Analyzer

3.Passive Parameter Test

Electrical Properties	
Frequency	2.4GHz-2.5GHz
Impedance	50 ohm Nominal
V. S. W. R	1: 1.06 Max
Return Loss	-29.62dB Max
Radiation	Omni-directional
Polarization	Linear, Vertical

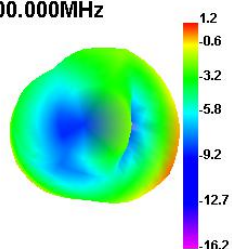
VSWR&Return Loss&Smith Chart:



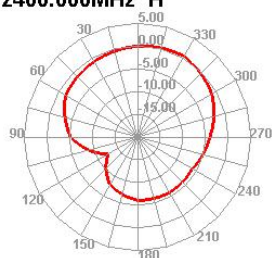
Eff、Gain and Radiation patterns:

Passive Test For BT							
Freq	Effi	Gain	Gain	UHS	DHIS	Max	Min
(MHz)	(%)	(dBi)	(dBd)	(%)	(%)	(dB)	(dB)
2400	56.26	1.17	-0.98	18.481	27.782	1.17	-16.19
2450	59.61	2.42	0.27	19.134	30.476	2.42	-13.2
2500	57.58	2.22	0.07	22.269	31.316	2.22	-8.76

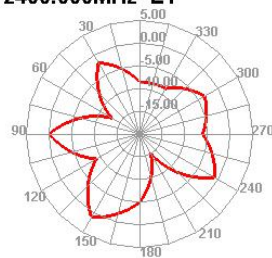
2400.000MHz



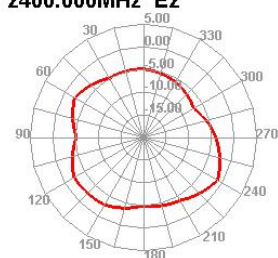
2400.000MHz H



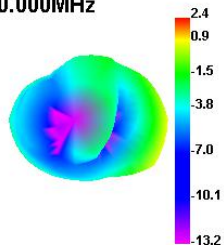
2400.000MHz E1



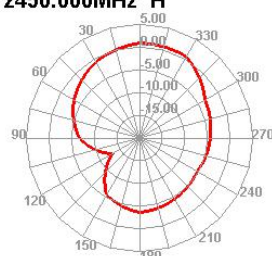
2400.000MHz E2



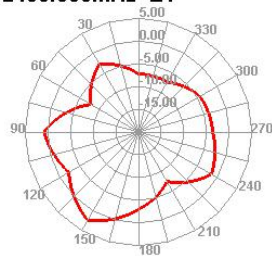
2450.000MHz



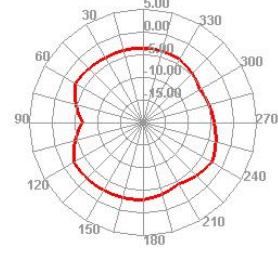
2450.000MHz H



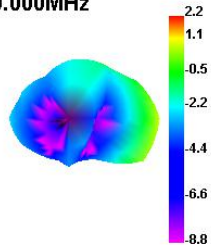
2450.000MHz E1



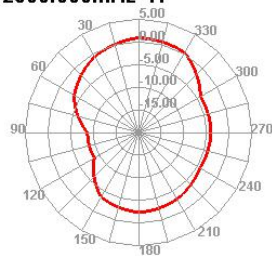
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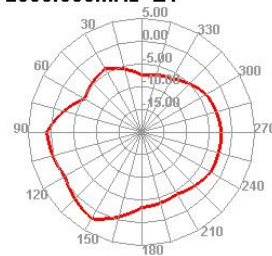
2500.000MHz



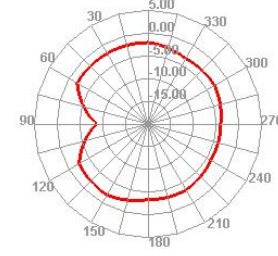
2500.000MHz H



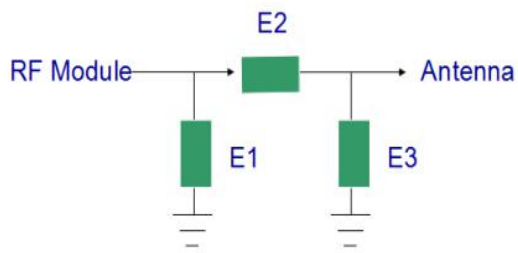
2500.000MHz E1



2500.000MHz E2



4. Matching Circuit Description



Element	Value
E1 (0402)	5.6 nH
E2 (0402)	3.9 nH
E3 (0402)	1.0 pF



5.Isolation



Antenna Attachment Position



Isolation between WIFI-A and WIFI-B at 2.4G



Isolation between WIFI-A and WIFI-B at 5G



Isolation between WIFI-A and BT at 2.4G



Isolation between WIFI-B and BT at 2.4G

6.Drawing

