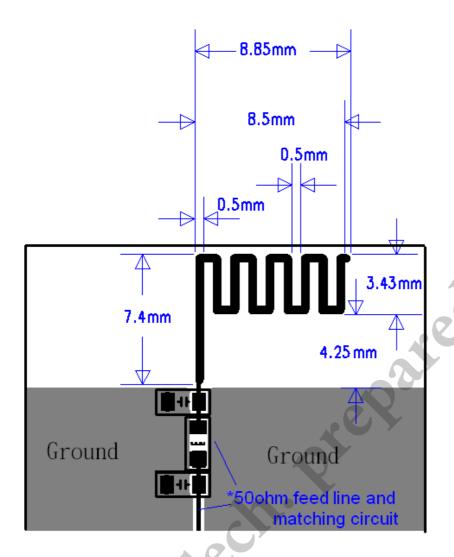
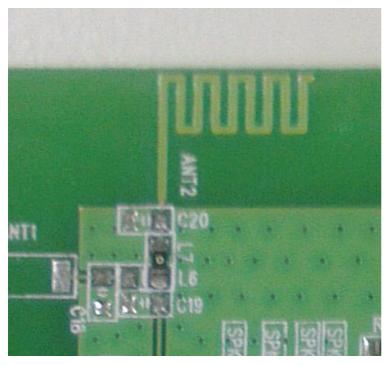
Printed antenna test report

(A).Printed antenna pattern:



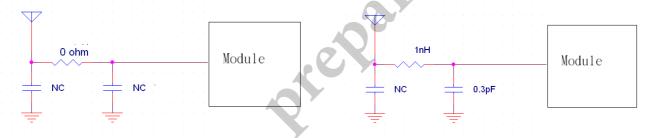
^{* 50} ohm feed line should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness

(B)Test Board:

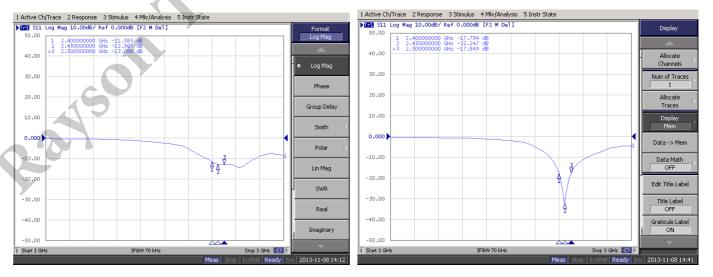


(B1). Without matching circuit:

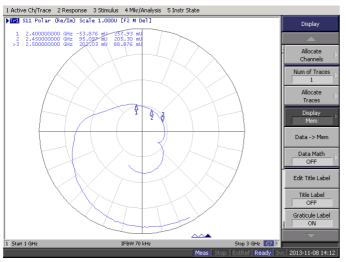
(B2). With matching circuit:

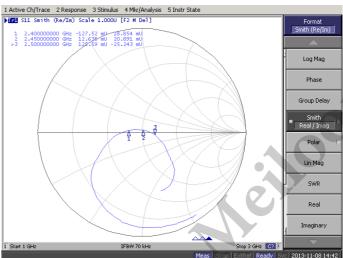


Return loss

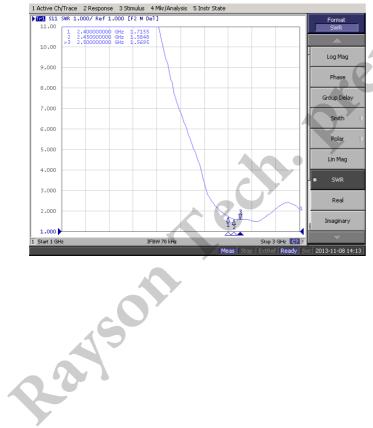


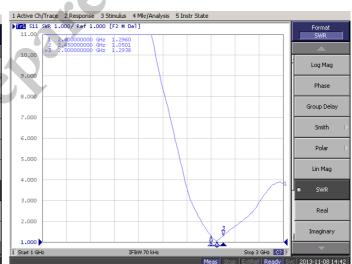
Smith chart



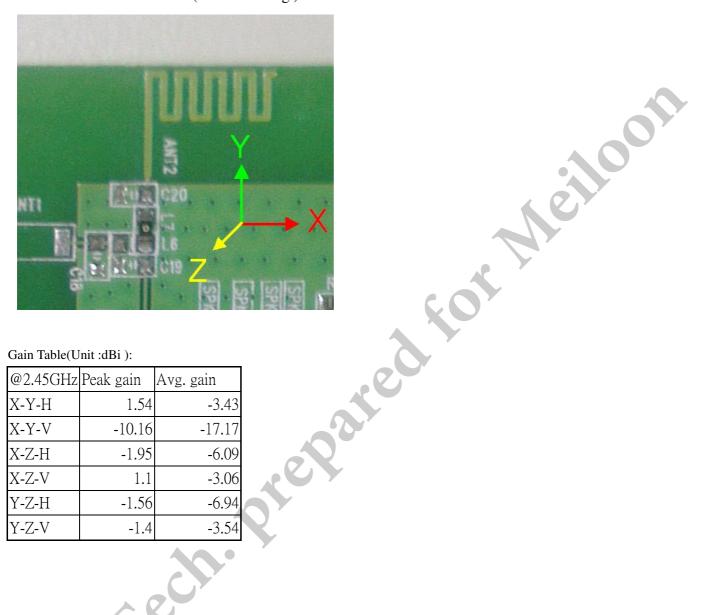


VSWR





(C) Radiation Patterns of test board (with matching)



Gain Table(Unit :dBi):

Cum rucie (Cimt tubi).										
@2.45GHz	Peak gain	Avg. gain								
Х-Ү-Н	1.54	-3.43								
X-Y-V	-10.16	-17.17								
X-Z-H	-1.95	-6.09								
X-Z-V	1.1	-3.06								
Y-Z-H	-1.56	-6.94								
Y-Z-V	-1.4	-3.54								



香港商立德國際商品设验有限公司美国分公司

Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch [Bureau Veritas ADT]

www.adi.com.kv Hwa Ya Lab & Head Office, Tel +839-3-3153232 / Unixou BNO/RF Lab, Tel +839-2-20052120 / Hsinchu BNO/RF Lab, Tel +839-3-9505343

Brand / Model : Printed Antenna Remark : TX Mode, EUT X-Y , 2450 MHz Sample No. 01 Tested by : CS(LOOK)

香港高立德國際高品**设验有限公司**美国分公司

A D T Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch [Bureau Veritas ADT]
www.adi.com.ku Nea Ya Lab & Read Office, Tel +28953-3152022 / Uniou BNO/R Lab, Tel +28952-2902130 / Holnotru BNO/R Lab, Tel +28952-590313

Brand / Model : Printed Antenna Remark : TX Mode, EUT X-Y , 2450 MHz Sample No. 01 Tested by : CS(LOOK)

Time: 下午 03:06:04 Location: RF Chamber C Date: 2013/11/27 Time: 下午 03:07:55 Date: 2013/11/27 Location: RF Chamber C Temperature (℃): 25 Approved by: Humidity (%): 75 Approved by: Temperature (℃): 25 Humidity (%): 75 - 20 -10 -10 -20 -30 -30 -40 -50 -50 180 -60 180 -60 * Unit : _dBi 270 - : Max. deg - : Max. deg 270 * Unit: dBi Frequency (MHz): 2450.00 Antenna Polarity: Horizontal Average Value (dBi): -3.43 Frequency (MHz): 2450.00 Antenna Polarity: Vertical Average Value (dBi): -17.17 Maximum Value (dBi): 1.54 Maximum Value (dBi): -10.16 Maximum Value (degree): 270 Maximum Value (degree): 293 Minimum Value (dBi): -32.08 Minimum Value (degree): 322 Minimum Value (dBi): -54.18 Minimum Value (degree): 226 V6.2 D:谰試程式\Antenna Pattern V6.1\Graph\1127\11270007.png D:训腻程式\Antenna Pattern V6.1\Graph\1127\11270008.png



香港商立德國際商品议验有限公司提關分公司

D T Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch [Bureau Veritas ADT]
wastoom.w Rwa Ya Lat & Read Ortor, Tel +206-3-3152222 / Linko BROKF Lat, Tel +206-2-20052100 / Heindru BROKF Lat, Tel +206-3-5

Brand / Model : Printed Antenna Remark: 2450MHz , EUT X-Z Sample No. 1 Tested by: Gary



者基高立德國際高品試验有限公司提圖分公司

A D T Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch [Bureau Veritas ADT]
www.adi.com.ku Neg Ya Lab & Read Office, Tel +8863-3182222 / Uniou 980/RF Lab, Tel +8862-28282182 / Heindru 980/RF Lab, Tel +8863-8828313

Brand / Model : Printed Antenna Remark : 2450MHz , EUT X-Z Sample No. 1 Tested by : Gary

Location: RF Chamber C	Date: 2013/11/29	Time: 上午 11:04:29	Location: RF Chamber C	Date: 2013/11/29	Time: 上午 11:06:25
Temperature (°C): 25	Humidity (%): 60	Approved by:	Temperature (℃): 25	Humidity (%): 60	Approved by:
	90	20		90	0.7
		10			
				XTI	
	1 TX	-10			
		\times \times \setminus		XXT	$\times \times \times$
\times	XXHVIX	-20			
- H		-30		XXTIZX	
LLT14-		-40			21111
100		-50	180		
180		-60	1.00		
1 HTT		ATH			
	XX/TITIXX			XXXIIIIIXX	
		$^{\prime}$		XXIIIIIX	$\times \times /$
$\times \times$	XXTTT	$\times \times \times$	X		$\langle \times \rangle$
~					
: Max. deg	270	* Unit : dBi	: Max. deg	270	* Unit
Frequency (MHz): 2450.00	Antenna Polarity : Horizontal	Average Value (dBi): -6.09	Frequency (MHz): 2450.00	Antenna Polarity : Vertical	Average Value (dBi): -
faximum Value (dBi): -1.95	Maximum Value (degree): 142		Maximum Value (dBi): 1.10	Maximum Value (degree): 274	
finimum ∀alue (dBi) : -33.41	Minimum Value (degree): 87	V8.	Minimum Value (dBi): -10.94	Minimum Value (degree): 139	
D:測試程式/Antenna Pattern	V6.1\Graph\1129\11290005.png		D:测試程式\Antenna Pattern	V6.1\Graph\1129\11290006.png	
	A (2)				
	Y				
C					
13					



香港商立德國際商品試验有限公司提圖分公司

D T Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch [Bureau Veritas ADT]
vasticom.live Ya Lab & Read Ortice, Tel +556-3-3152222 / Linkou BMO/R/ Lab, Tel +556-24552150 / Heindru BMO/R/ Lab, Tel +556-2455210

A D T Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch [Bureau Veritas ADT]
www.adl.com.lw New Ye Lab & Read Office, Tel +255-34152222 / Linkou 990/RF Lab, Tel +255-24592120 / Heindru 990/RF Lab, Tel +255-34592512

香港商立德國際商品試验有限公司美國分公司

Brand / Model : Printed Antenna

Remark: 2450MHz , EUT Y-Z Sample No. 1 Tested by: Gany

Brand / Model : Printed Antenna Remark: 2450MHz , EUT Y-Z Sample No. 1 Tested by : Gary

Temperature (°C): 25	90 90 90 90 90 90 90 90 90 90 90 90 90 9	20 10 0 -10 -20 -30 -40 -50 -60	Temperature (°C): 25	90 90	Approved by:
180	90	10 0 -10 -20 -30 -40 -50	180	90	
\checkmark	VI I I I				\ /
1		0			
: Max. deg	270	* Unit: dBi	: Max. deg	270	* Unit
equency (MHz): 2450.00 Anteni	na Polarity : Horizontal	Average Value (dBi): -6.94	Frequency (MHz): 2450.00	Antenna Polarity : Vertical	Average Value (dBi): -
aximum Value (dBi): -1.56 Maxim	um Value (degree): 156	45)	Maximum Value (dBi): -1,40	Maximum Value (degree): 131	
inimum Value (dBi): -28.60 Minimu	um Value (degree): 282	V6.2	Minimum Value (dBi): -7.75	Minimum Value (degree): 239	
	Vec.				