

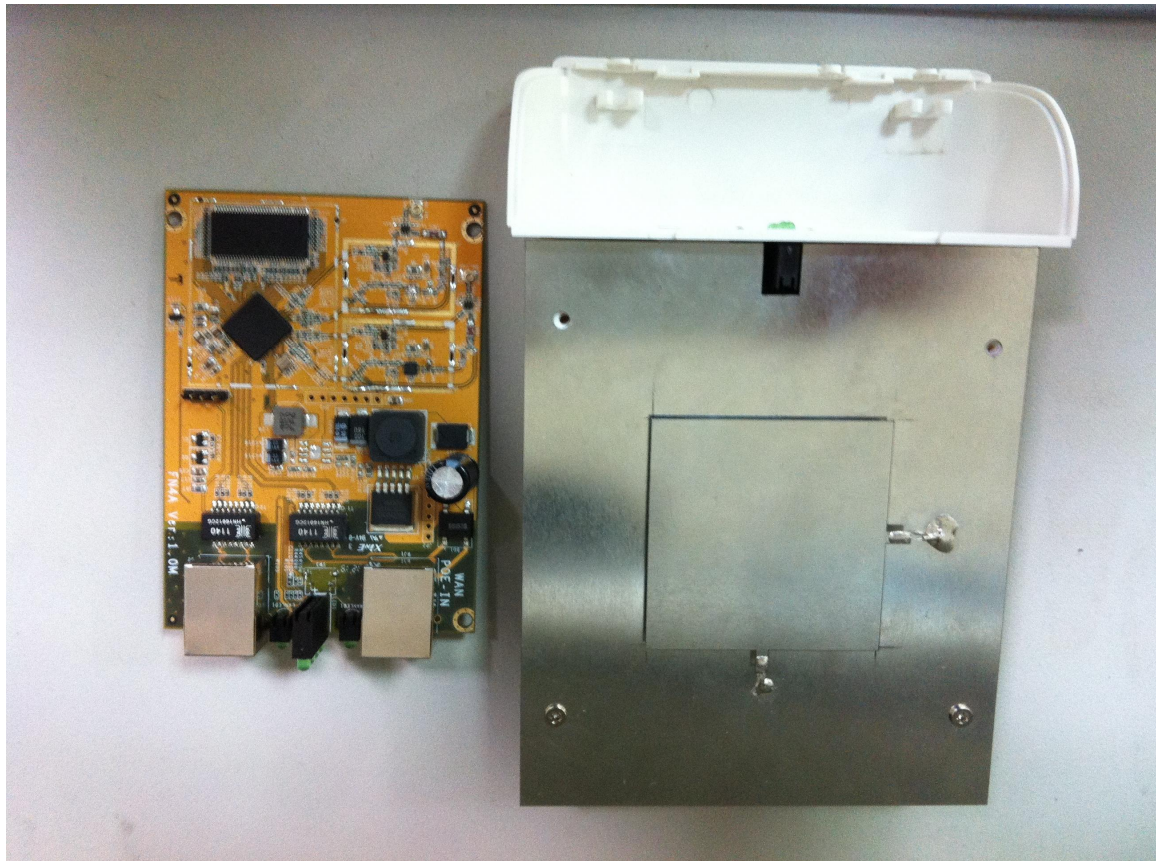
## WLO-12410N 3.7KM WDS Mode Test Report

**Date : 2012/11/2**

**Test Device Spec. :**

**Antenna : 9 dBi**

**Board : WLO-12410N 2.4G 2T2R**



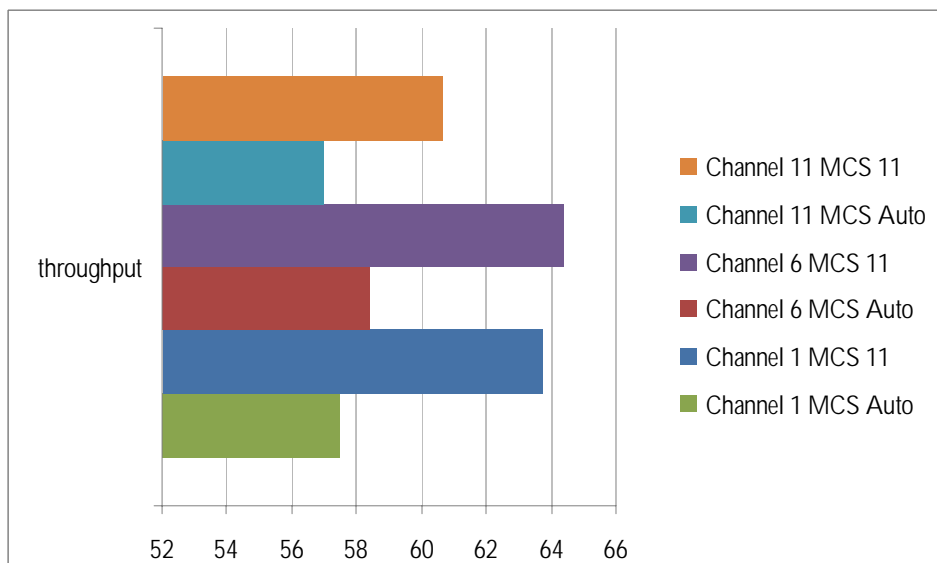


## Test Location：北部濱海公路

A screenshot of a Microsoft Internet Explorer browser window displaying Google Maps. The search term '龍洞' (Longdong) is entered in the search bar. The map shows a route along the northern coast of Taiwan, starting from a red pin at the top and ending at a green pin at the bottom. The route is marked with a yellow line. The left sidebar shows the '量距尺' (Ruler) tool, indicating a total distance of 3.73542 kilometers. The browser's address bar shows the URL 'https://maps.google.com.tw/maps?hl=zh-TW'. The taskbar at the bottom shows the system tray with the time '下午 02:45'.

**Test result , detail data see below information.**

Channel	MCS	Throughput
1	Auto	57.465
	11	63.693
6	Auto	58.408
	11	64.387
11	Auto	56.97
	11	60.617

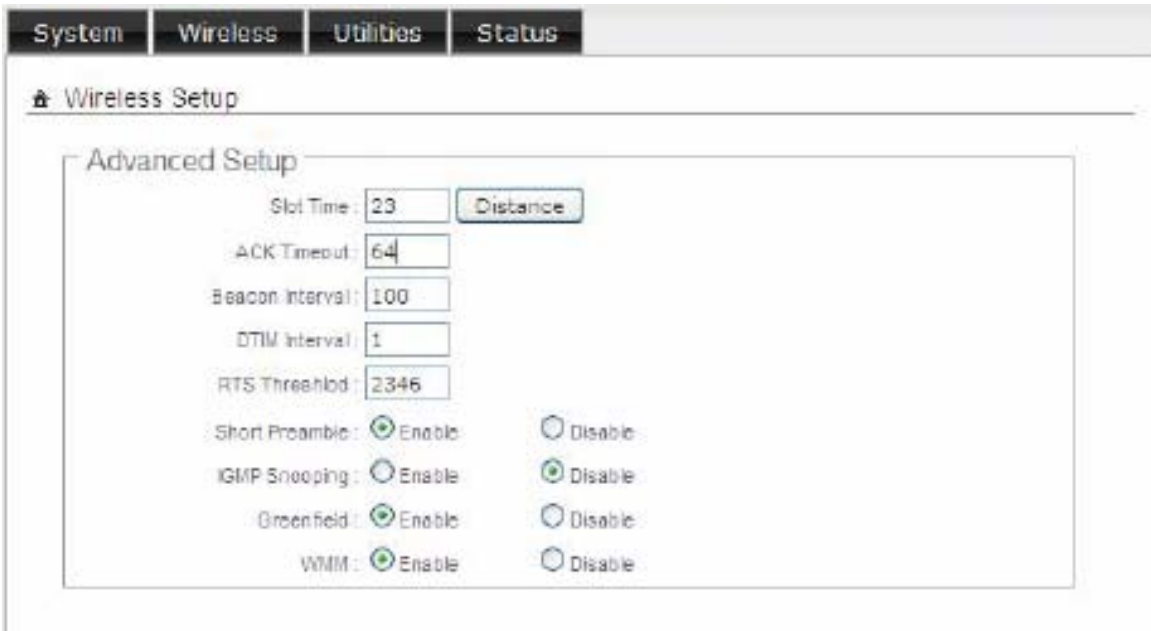


# Channel 1 Test :

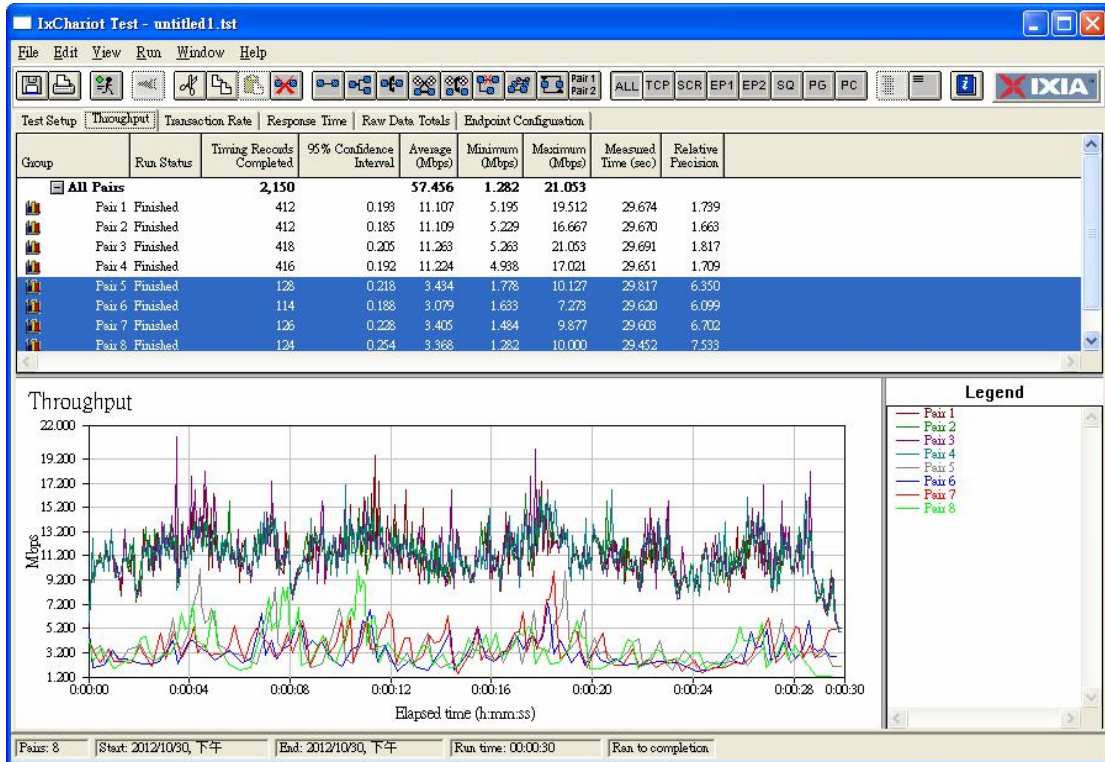
GUI Setting :

Setting : Channel 1 / Mcs AUTO / Power Level 9

The screenshot displays the 'Wireless Setup' configuration page. At the top, there are four tabs: 'System', 'Wireless', 'Utilities', and 'Status'. The 'Wireless' tab is selected. Below the tabs, the page is titled 'Wireless Setup'. Underneath, there are two main sections: 'General Setup' and 'HT Physical Mode'. In the 'General Setup' section, the MAC Address is '00 : 1A : 30 : 00 : 00 : 09'. The Band Mode is set to '802.11b/g/n', Country to 'US', Channel to '1 (2.412 Ghz)', and Tx Power to 'Level 9'. There are 'Auto Scan' and 'AP List' buttons next to the Channel dropdown. The 'HT Physical Mode' section contains several radio button options: 'TX/RX stream' (1 and 2, with 2 selected), 'Channel BandWidth' (20 and 20/40, with 20/40 selected), 'Extension Channel' (Upper and Lower, with Upper selected), 'Short GI' (Disable and Enable, with Enable selected), and 'Aggregation' (Disable and Enable, with Enable selected). There are also two input fields: 'Aggregation Frames' set to '32' and 'Aggregation Size' set to '50000'. A 'Save' button is located at the bottom of the configuration area. At the very bottom of the page, there is a copyright notice: 'Copyright © 2012. All Rights Reserved.'



**Tx/Rx : 57.465 Mbps**



## Change GUI Setting :

**Setting : Channel 1 / Mcs 11 / Power Level 9**

The screenshot displays the 'Wireless Setup' configuration page. At the top, there are four tabs: 'System', 'Wireless', 'Utilities', and 'Status'. The 'Wireless' tab is selected. Below the tabs, the page title is 'Wireless Setup'. The main content is divided into two sections: 'General Setup' and 'HT Physical Mode'. In the 'General Setup' section, the MAC Address is '00:1A:50:00:00:09'. The Band Mode is set to '802.11b/g/n'. The Country is 'US'. The Channel is '1 (2.412 GHz)', with 'Auto Scan' and 'AP List' buttons next to it. The Tx Power is 'Level 9'. The 'HT Physical Mode' section contains several radio button options: 'TX/RX Stream' (1 and 2), 'Channel Bandwidth' (20 and 20/40), 'Extension Channel' (Upper and Lower), 'Short GI' (Disable and Enable), and 'Aggregation' (Disable and Enable). The 'MCS' is set to 'Auto'. There are also input fields for 'Aggregation Frames' (32) and 'Aggregation Size' (50000). A 'Save' button is located at the bottom of the configuration area. At the very bottom of the page, there is a copyright notice: 'Copyright © 2012. All Rights Reserved.'

System | Wireless | Utilities | Status

### Wireless Setup

**General Setup**

MAC Address : 00 :1A :50 :00 :00 :09

Band Mode : 802.11b/g/n

Country : US

Channel : 1 (2.412 GHz) [Auto Scan] [AP List]

Tx Power : Level 9

**HT Physical Mode**

TX/RX Stream :  1  2

Channel Bandwidth :  20  20/40

Extension Channel :  Upper  Lower

MCS : Auto

Short GI :  Disable  Enable

Aggregation :  Disable  Enable

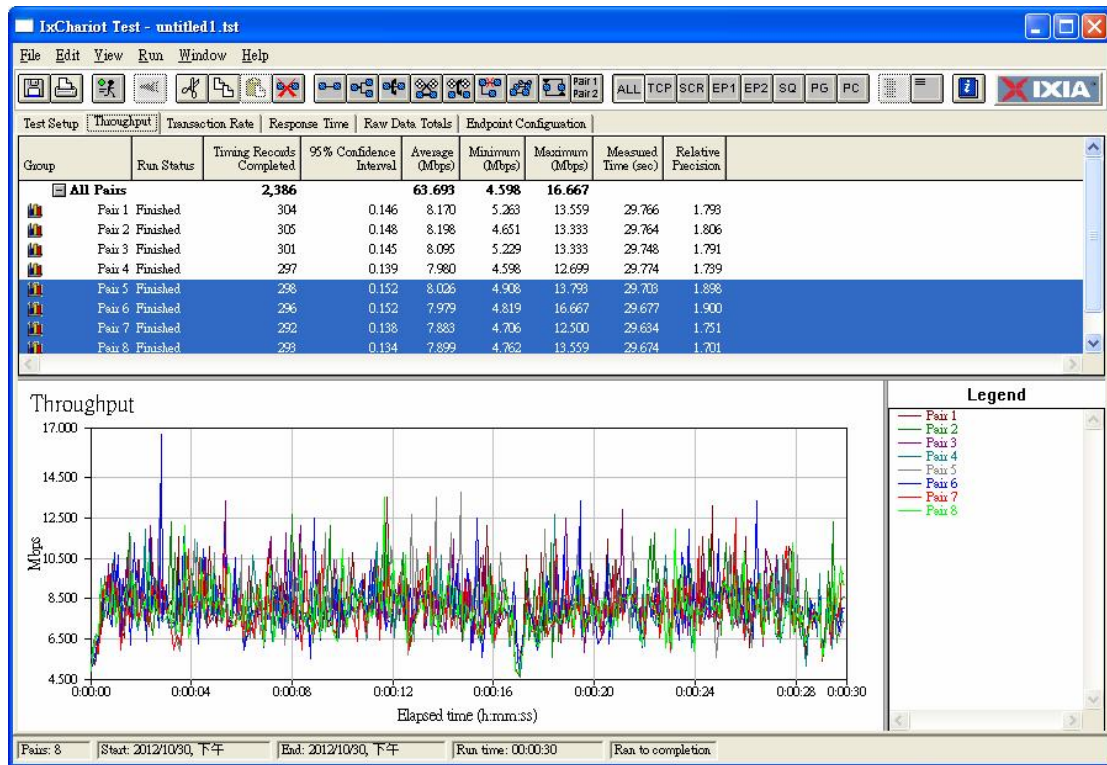
Aggregation Frames : 32

Aggregation Size : 50000

[Save]

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Tx/Rx : 63.693 Mbps



# Channel 6 Test :

## Change GUI Setting :

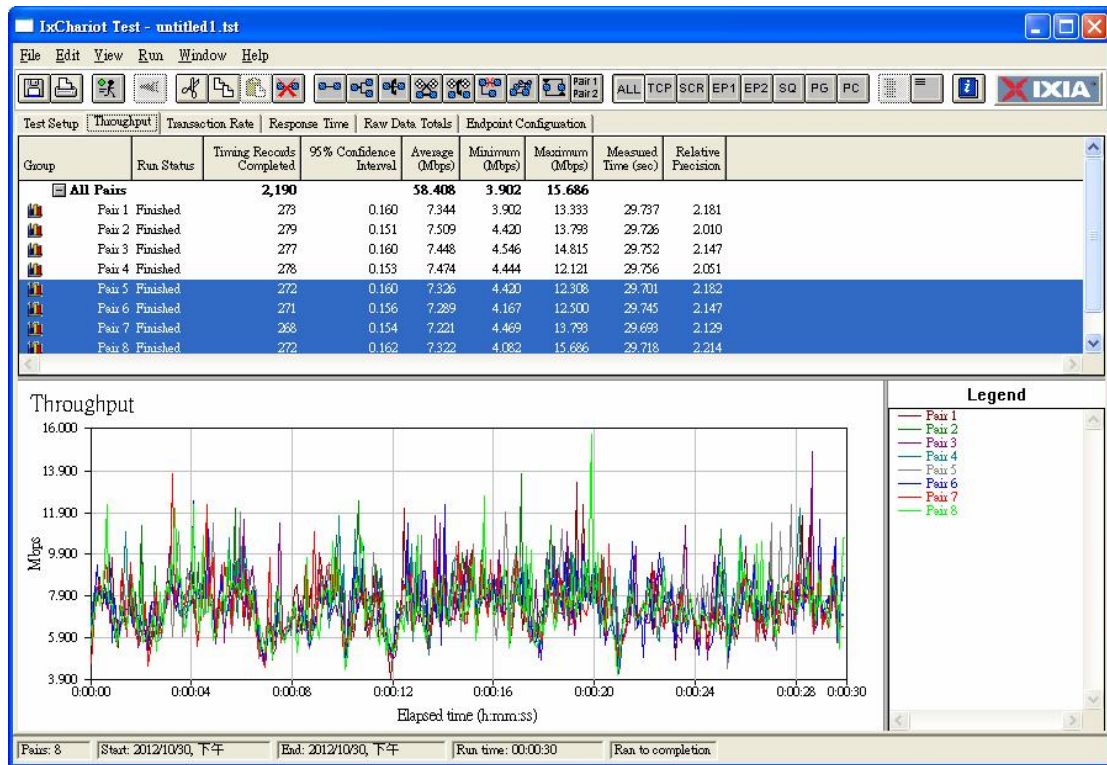
Setting : Channel 6 / Mcs AUTO / Power Level 9

The screenshot displays the 'Wireless Setup' configuration page. At the top, there are navigation tabs for 'System', 'Wireless', 'Utilities', and 'Status'. The 'Wireless' tab is active, showing a 'Wireless Setup' section with a home icon and a title bar. Below this, there are two main configuration panels: 'General Setup' and 'HT Physical Mode'. The 'General Setup' panel includes fields for MAC Address (00:1A:50:00:00:09), Band Mode (802.11b/g/n), Country (US), Channel (6 (2.437 GHz)), Tx Power (Level 9), and buttons for 'Auto Scan' and 'AP List'. The 'HT Physical Mode' panel contains radio button options for TX/RX Stream (1 and 2), Channel Bandwidth (20 and 20/40), Extension Channel (Upper and Lower), MCS (Auto), Short GI (Disable and Enable), and Aggregation (Disable and Enable). It also features input fields for 'Aggregation Frames' (32) and 'Aggregation Size' (50000). A 'Save' button is located at the bottom of the configuration area. At the very bottom of the page, a copyright notice reads 'Copyright © 2012. All Rights Reserved.'

Section	Parameter	Value
General Setup	MAC Address	00:1A:50:00:00:09
	Band Mode	802.11b/g/n
	Country	US
	Channel	6 (2.437 GHz)
	Tx Power	Level 9
HT Physical Mode	TX/RX Stream	2
	Channel Bandwidth	20/40
	Extension Channel	Upper
	MCS	Auto
	Short GI	Enable
	Aggregation	Enable
	Aggregation Frames	32
	Aggregation Size	50000
	Save	
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**Tx/Rx : 58.408 Mbps**



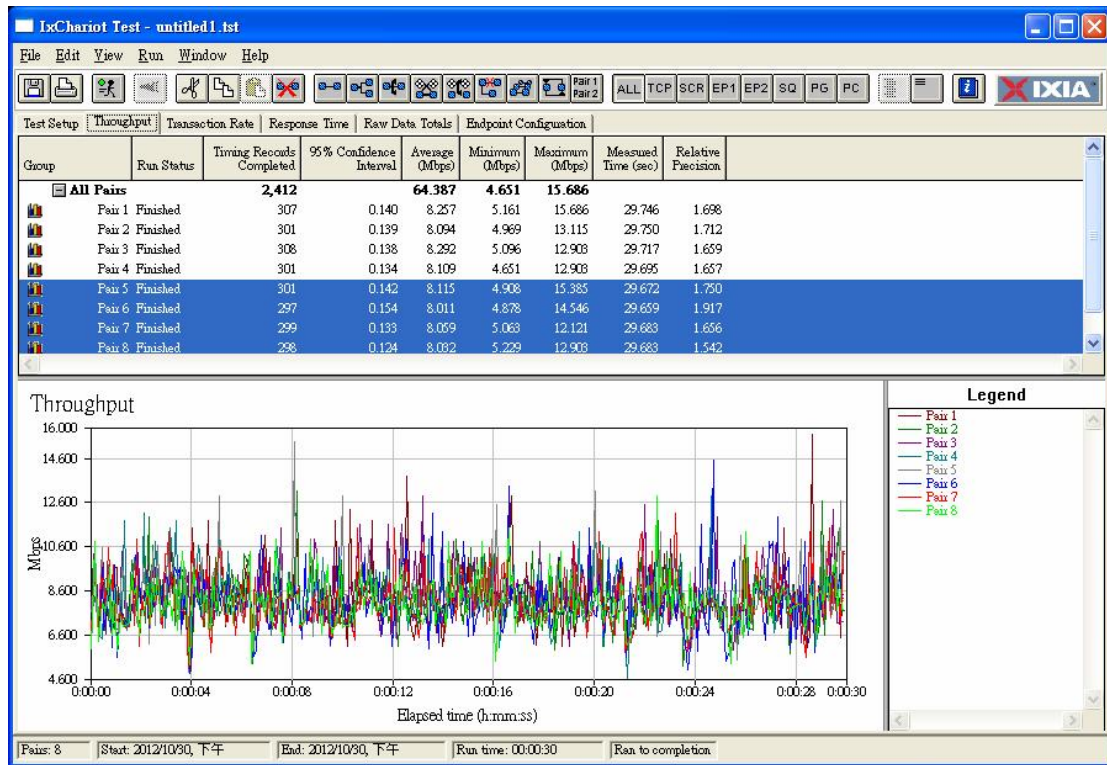
## Change GUI Setting :

Setting : Channel 6 / Mcs 11 / Power Level 9

The screenshot displays the 'Wireless Setup' configuration page. At the top, there are navigation tabs for 'System', 'Wireless', 'Utilities', and 'Status'. The 'Wireless' tab is selected. Below the tabs, the page title is 'Wireless Setup'. The main content is divided into two sections: 'General Setup' and 'HT Physical Mode'. In the 'General Setup' section, the MAC Address is '00:1A:50:00:00:09'. The Band Mode is set to '802.11b/g/n'. The Country is 'US'. The Channel is '6 (2.437 GHz)', with 'Auto Scan' and 'AP List' buttons next to it. The Tx Power is 'Level 9'. In the 'HT Physical Mode' section, TXRX Stream is '2', Channel BandWidth is '20/40', Extension Channel is 'Upper', MCS is 'Auto', Short GI is 'Enable', and Aggregation is 'Enable'. The Aggregation Frames is '32' and the Aggregation Size is '50000'. A 'Save' button is located at the bottom of the configuration area. At the very bottom of the page, there is a copyright notice: 'Copyright © 2012. All Rights Reserved.'

Section	Parameter	Value
General Setup	MAC Address	00:1A:50:00:00:09
	Band Mode	802.11b/g/n
	Country	US
	Channel	6 (2.437 GHz)
	Tx Power	Level 9
HT Physical Mode	TXRX Stream	2
	Channel BandWidth	20/40
	Extension Channel	Upper
	MCS	Auto
	Short GI	Enable
	Aggregation	Enable
	Aggregation Frames	32
	Aggregation Size	50000

Tx/Rx : 64.384 Mbps



# Channel 11 Test :

## Change GUI Setting :

Setting : Channel 11 / Mcs AUTO / Power Level 9

System	Wireless	Utilities	Status
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🏠 Wireless Setup

### General Setup

MAC Address: 00:1A:50:00:00:09

Band Mode: 802.11b/g/n

Country: US

Channel: 11 (2.462 GHz) Auto Scan AP List

TX Power: Level 9

### HT Physical Mode

TX/RX Stream:  1  2

Channel Bandwidth:  20  20/40

Extension Channel:  Upper  Lower

MCS: Auto

Short GI:  Disable  Enable

Aggregation:  Disable  Enable

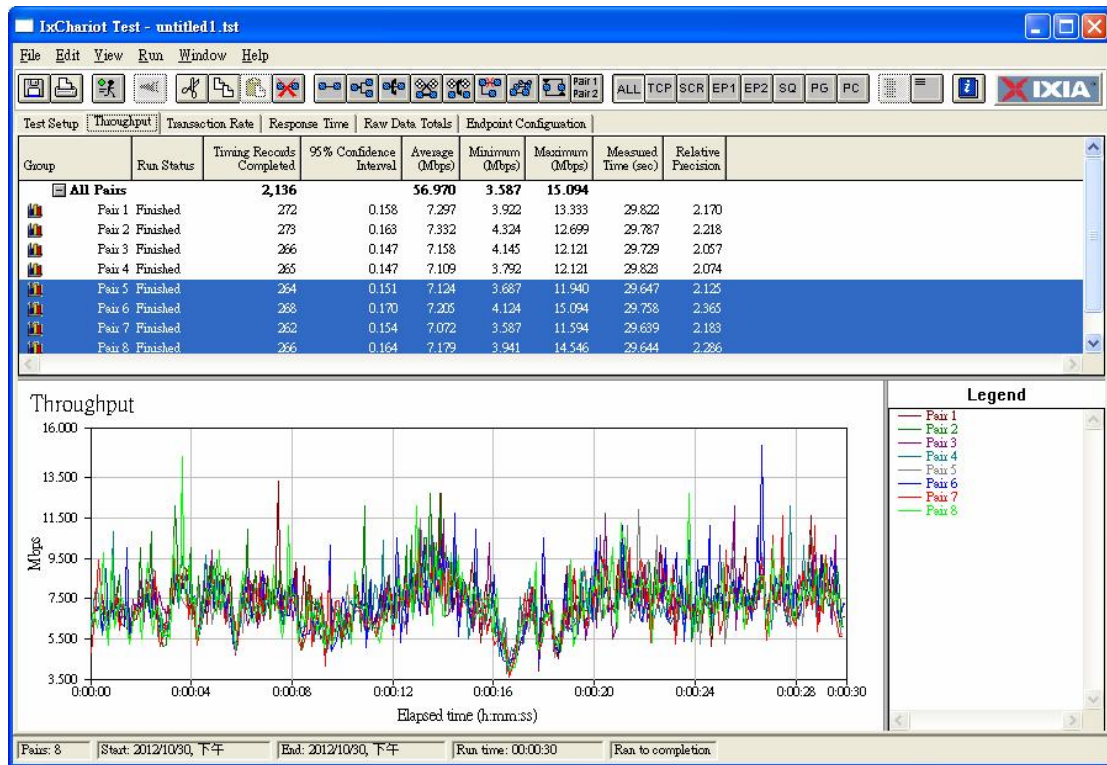
Aggregation Frames: 32

Aggregation Size: 50000

Save

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Tx/Rx : 56.970 Mbps



## Change GUI Setting :

Setting : Channel 11 / Mcs 11 / Power Level 9

System	Wireless	Utilities	Status
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🏠 Wireless Setup

### General Setup

MAC Address: 00 : 1A : 50 : 00 : 00 : 09

Band Mode: 802.11b/g/n

Country: US

Channel: 11 (2.462 GHz)

Tx Power: Level 9

### HT Physical Mode

TX/RX Stream:  1  2

Channel Bandwidth:  20  20/40

Extension Channel:  Upper  Lower

MCS: Auto

Short GI:  Disable  Enable

Aggregation:  Disable  Enable

Aggregation Frames: 32

Aggregation Size: 50000

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Tx/Rx : 60.617 Mbps

