

# Questions to Answer

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1. Why are the download speeds so different when measured via the Nighthawk app vs. the stand-alone Speedtest app?
2. Does the Nighthawk app measure the download speed coming into the router and the Speedtest app the speed at the device (Macbook, iPad, iPhone, etc.)?
3. If the Speedtest app measures the speed at the device, why is it so much less than the speed coming into the router as measured by the Nighthawk app?
4. What can I do to enable the devices to show speeds that are actually above 1,000Mbps (or 0.977 Gbps)?

# Home Network Components & Results

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- ISP: Astound Broadband by Wave; 1.5 Gigabit cable internet
- Modem: Netgear Nighthawk CM2000 Router
- Router: Netgear Nighthawk RS700S Wifi 7 Cable Modem
- Devices: 50+ for security system, home theater, NAS, etc.
- Platform: Apple iMac, Macbook Pro, iPad Pro, iPhone 14
- Wireless: All using 5G channels for basis of this speed test.
- Speed Test: Use Speedtest by Ookla within the Nighthawk App and stand-alone app.

## Summary of Speed Test Results:

Device	Connection	Via Nighthawk App			Via Stand-alone Speedtest App			
		Download	Upload	Ping	Download	Upload	Ping	Jitter
McBook Pro	Wireless	1,671.3	52.6	N/A	793.0	51.7	16	3
iPad Pro	Wireless	1,640.0	54.1	12	797.0	49.3	25	5
iPhone 14	Wireless	1,672.7	53.5	11	486.0	45.6	19	7
iMac	Wireless	1,675.1	46.6	N/A	897.0	47.7	15	8
iMac	Wired	1,660.8	52.3	N/A	942.0	45.0	11	4

# Speed Test Results: MacBook Pro 2022 M2 (A2338)

## From Speedtest App

↓ 793      ↑ 51.7



## From Nighthawk App

↓ 1,671.3      ↑ 52.6

### QoS

- Enable QoS  
QoS does not increase your total Internet bandwidth or WiFi throughput

#### Internet Bandwidth

- Let Speedtest detect my Internet bandwidth

Take a Speedtest



[Online Support](#)

↓	DOWNLOAD SPEED	↑	UPLOAD SPEED
	1671.33Mbps		52.61Mbps

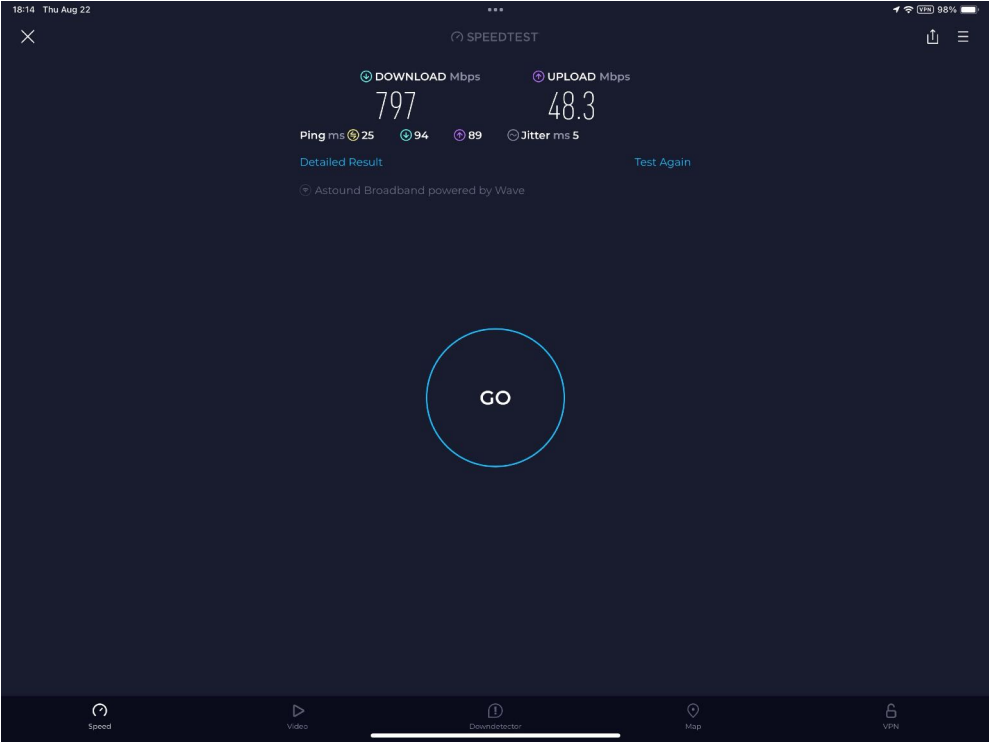
- I want to define my Internet Bandwidth

- Automatically update performance optimization database

# Speed Test Results: iPad Pro M2 (A2436)

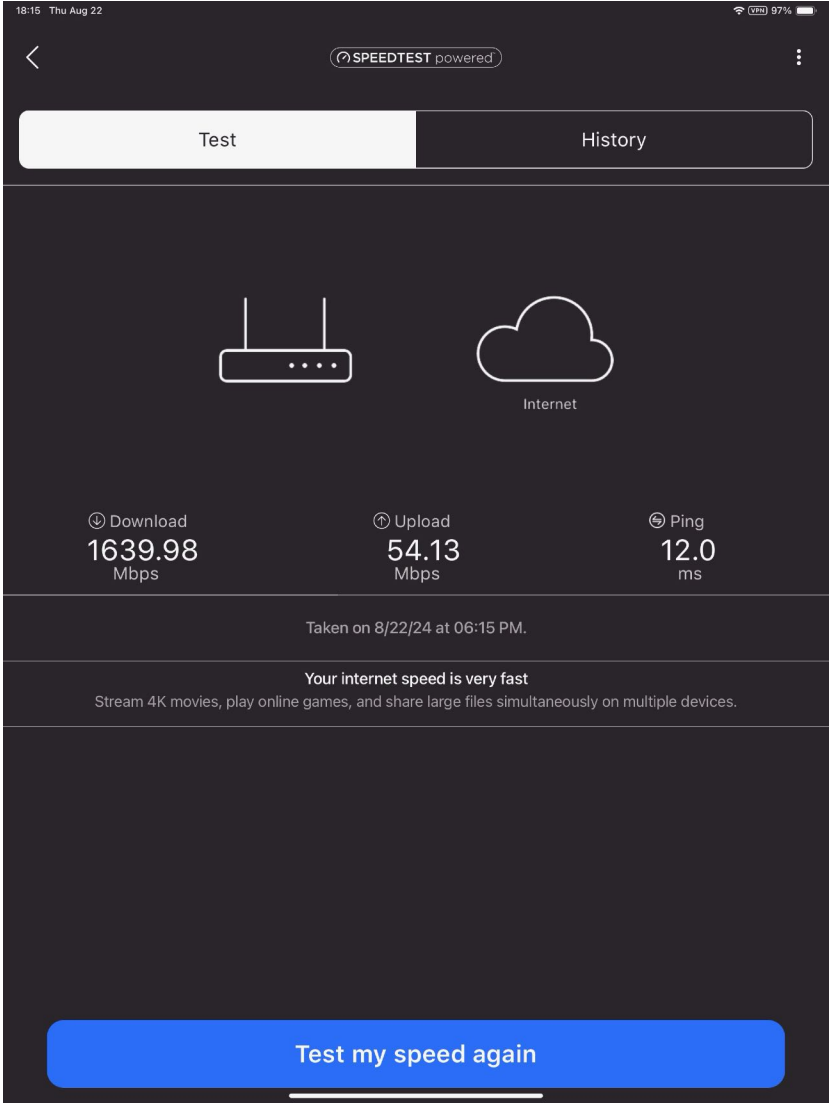
## From Speedtest App

↓ 797      ↑ 49.3



## From Nighthawk App

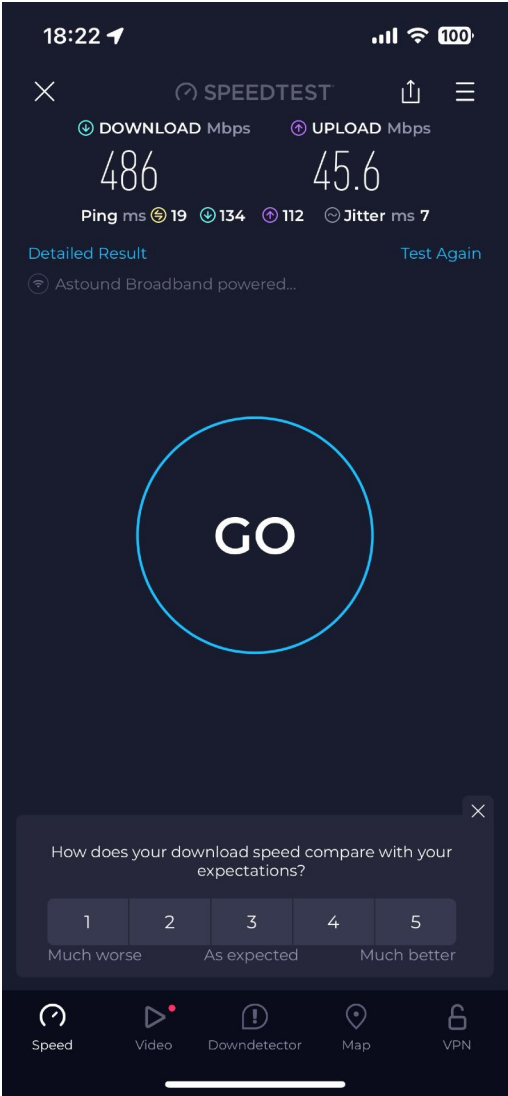
↓ 1,640.0      ↑ 54.1



# Speed Test Results: iPhone 14

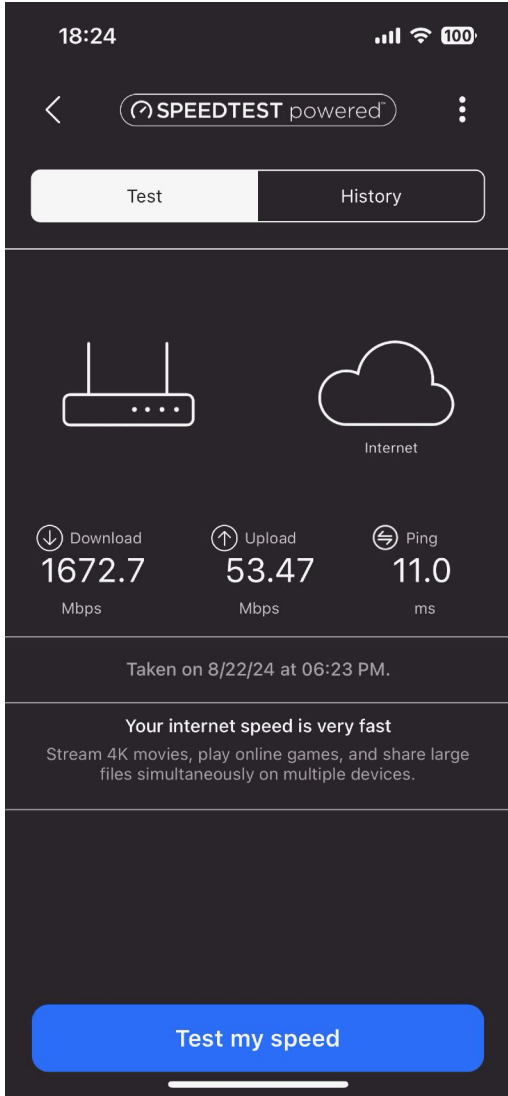
## From Speedtest App

↓ 486      ↑ 45.6



## From Nighthawk App

↓ 1,672.7      ↑ 53.7



# Speed Test Results: iMac 2017 (Wireless)

## From Speedtest App

↓ 897      ↑ 47.7



## From Nighthawk App

↓ 1,675.1      ↑ 46.6

### QoS

Enable QoS  
QoS does not increase your total Internet bandwidth or WiFi throughput

#### Internet Bandwidth

Let Speedtest detect my Internet bandwidth

Take a Speedtest

SPEEDTEST powered™  
[Online Support](#)

DOWNLOAD SPEED 1675.08Mbps      UPLOAD SPEED 46.55Mbps

I want to define my Internet Bandwidth

Automatically update performance optimization database

Update Now

Current Performance Optimization Database on Router

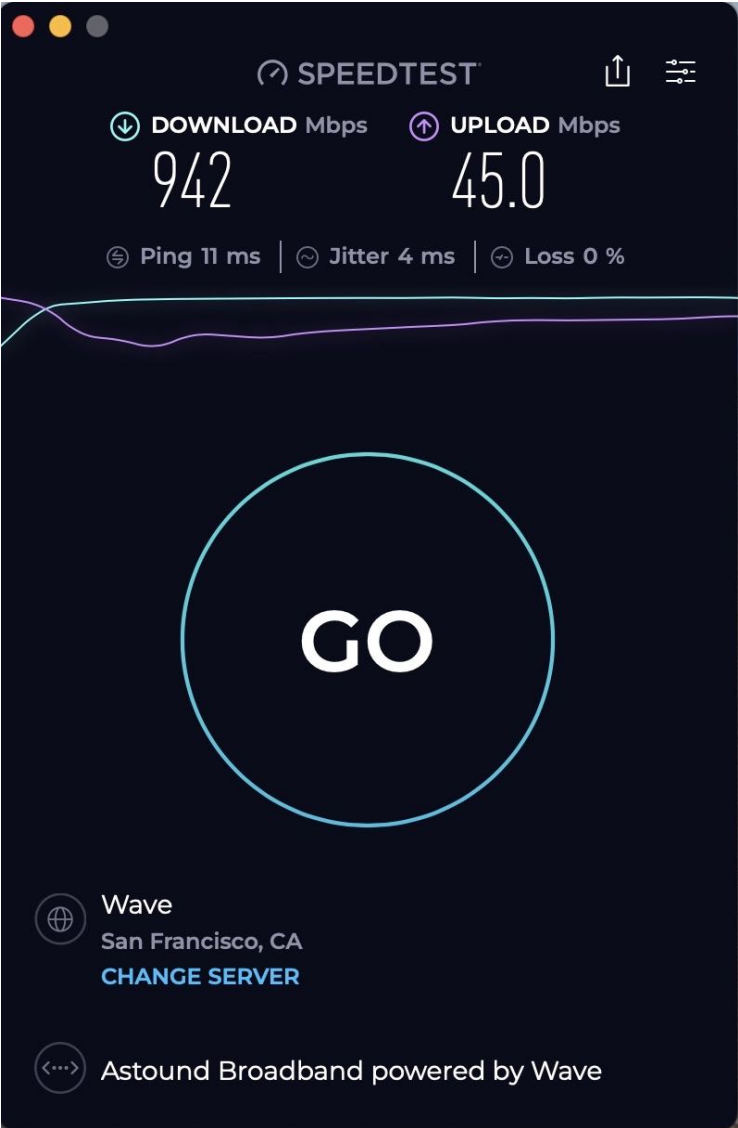
Version: v1.328,0.0.19,0.1.11

Release Date: 2020/02/23

# Speed Test Results: iMac 2017 (Ethernet)

## From Speedtest App

↓ 942      ↑ 45.0



## From Nighthawk App

↓ 1,660.8      ↑ 52.3

### QoS

Enable QoS  
QoS does not increase your total Internet bandwidth or WiFi throughput

#### Internet Bandwidth

Let Speedtest detect my Internet bandwidth

Take a Speedtest

SPEEDTEST powered  
[Online Support](#)

DOWNLOAD SPEED	UPLOAD SPEED
1660.76Mbps	59.29Mbps

I want to define my Internet Bandwidth

Automatically update performance optimization database

Update Now

Current Performance Optimization Database on Router

Version: v1.328,0.0.19,0.1.11

Release Date: 2020/02/23