

# TR-398 Issue 4

## WiFi Performance Test Plan

Wed Dec 18 09:41:26 PST 2024



| Test Setup Information |            |
|------------------------|------------|
| Device Under Test      | TR398 AP   |
| Operator               | Ben Greear |
| Estimated Run Time     | 10 m       |
| Actual Run Time        | 14.283 m   |

## Objective

The TR-398 Issue 4 WiFi Performance test plan by the Broadband forum provides a comprehensive set of tests to qualify the performance of WiFi access points (APs) designed for residential and small office environments. Radio performance, Throughput, Connection Stability, Airtime Fairness, AP Co-existence, MU\_MIMO Performance, Spatial Consistency, Long-term Stability and Mesh performance are some of the test areas covered in this test plan. The test plan is designed for service providers deploying in home WiFi APs to qualify the APs in the lab before deployment and for equipment makers to test during the development of the APs. Candela Technologies offers a fully automated TR-398 test system. The user can select from the list of tests available. Most tests can run fully automated, though some require user interaction. Measurements are made and compared to the specified PASS/FAIL criteria in the TR-398 test plan and this report will show the summary PASS/FAIL results followed by more detailed results for each test.

## Summary Results

| Test                      | Result |      |    |    | Candela Score | Elapsed  | Info  |
|---------------------------|--------|------|----|----|---------------|----------|---|
| 6.2.9 OFDMA Test (31-STA) | BW     | n/AC | AX | BE | 550           | 14.066 m | BE 6GHz OFDMA Download 1,542.89 Mbps No-OFDMA 452.37 Mbps<br>OFDMA-Enabled Percentage Improvement: 241.07%<br>BE 6GHz OFDMA Upload 1,278.17 Mbps No-OFDMA 35.90 Mbps<br>OFDMA-Enabled Percentage Improvement: 3,460.31% |

## 6.2.9 OFDMA Test (31-STA)

### Summary

The OFDMA test compares throughput with OFDMA enabled and disabled. The traffic load consists of 30 stations doing moderate speed traffic flows of 700 byte UDP payloads. Experimentation has shown that this traffic pattern causes OFDMA to happen on many APs. The 31st station runs a TCP connection with unlimited offered load. If OFDMA works well, the traffic to the UDP traffic stations should use less airtime due to a single tx-operation being able to send to multiple stations at once. This in turn should allow the TCP connection to run at higher speed.

## Test Procedure

These steps are done for 2.4GHz, 5GHz and 6GHz bands for Wifi-6 and Wifi-7 modes, and for Download and Upload UDP traffic flows. The TCP data flow is always in the uplink direction. STAs used in this test MUST support OFDMA. This may preclude using virtual-stations for this test case. Each UDP connection requested rate is 1Mbps for 2.4GHz bands and 4Mbps for other bands.

1. Set to Medium AAV attenuation distance.
2. Set DUT AP to have OFDMA disabled.
3. Establish the LAN connection, create 31 stations and allow the 31 stations to associate with the DUT.
4. Create UDP connections with 700 byte UDP payload on 30 of the stations.
5. Create 1 TCP Upload connection set to run at maximum speed on the 31st station.
6. Start all connections and ramp up traffic for 30 seconds.
7. Calculate total throughput of all data connections over the next 2 minutes.
8. Record TCP throughput.
9. Record sum of UDP throughput.
10. Set DUT AP to have OFDMA enabled.
11. Repeat steps 3-9.

## Pass/Fail Criteria

1. Total UDP + TCP throughput with OFDMA enabled must be at least 105% of non-OFDMA traffic total throughput.
2. Total UDP throughput with OFDMA enabled must be at least 95% of non-OFDMA traffic total throughput.

## Candela Score

The Score is  $((\text{OFDMA total UDP + TCP throughput}) * 95.0) / (\text{non-OFDMA total UDP + TCP throughput})$

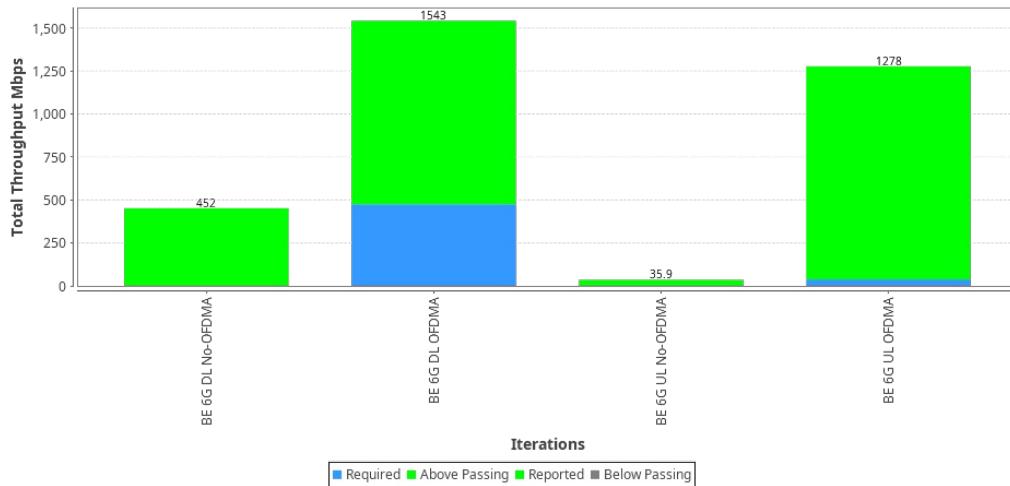
## 6.2.9 OFDMA Throughput Results

| Type                            | Result | Value | P/F Value | Notes   |
|---------------------------------|--------|-------|-----------|---|
| Configuration NOTE              | INFO   |       |           | DUT Report Header:<br>TX_RATE,RX_RATE,RSSI,SNR,OFDMA,BUSY   |
| Configuration NOTE              | INFO   |       |           | Configured to skip 2.4GHz band test.  |
| Configuration NOTE              | INFO   |       |           | Configured to skip 5GHz band test.  |
| Configuration NOTE              | INFO   |       |           | Configured to skip AX test.   |
| Configuration NOTE              | INFO   |       |           | Configured to skip 2.4GHz band test.  |
| Configuration NOTE              | INFO   |       |           | Configured to skip 5GHz band test.  |
| BE 6Ghz                         | INFO   |       |           | Setting DUT to have OFDMA disabled<br>/home/greearb/ssh_remote.py --ip 192.168.100.157 --<br>remote_args r6g set=ofdma:disabled<br>Response: Hidden: Anonymize-AP is enabled.   |
| BE 6Ghz                         | INFO   |       |           | Setting DUT to have MUMIMO disabled<br>/home/greearb/ssh_remote.py --ip 192.168.100.157 --<br>remote_args r6g set=mumimo:disabled<br>Response: Hidden: Anonymize-AP is enabled. |
| BE 6Ghz OFDMA Disabled Download | NOTE   |       |           | Not adding packet capture, anonymize_ap is enabled.   |
| BE 6Ghz                         | INFO   |       |           | Setting DUT to have OFDMA enabled<br>/home/greearb/ssh_remote.py --ip 192.168.100.157 --<br>remote_args r6g set=ofdma:enabled<br>Response: Hidden: Anonymize-AP is enabled.     |
| BE 6Ghz                         | INFO   |       |           | Setting DUT to have MUMIMO enabled<br>/home/greearb/ssh_remote.py --ip 192.168.100.157 --<br>remote_args r6g set=mumimo:enabled<br>Response: Hidden: Anonymize-AP is enabled.   |

|                                       |      |       |     |   |
|---------------------------------------|------|-------|-----|---|
| BE 6Ghz OFDMA Enabled Download        | NOTE |       |     | Not adding packet capture, anonymize_ap is enabled.   |
| BE 6Ghz Download UDP Total Throughput | PASS | 119   | 109 | UDP OFDMA 90th Percentile Latency: 67 Non-OFDMA: 433<br>UDP OFDMA Throughput: 119.03 Mbps Non-OFDMA: 114.56 Mbps<br>OFDMA Percentage: 103.9%                                |
| BE 6Ghz Download Total Throughput     | PASS | 1,543 | 475 | Total OFDMA Throughput: 1,542.89 Mbps Non-OFDMA: 452.37 Mbps<br>OFDMA Percentage: 341.066%  |
| BE 6Ghz                               | INFO |       |     | Setting DUT to have OFDMA disabled<br>/home/greearb/ssh_remote.py --ip 192.168.100.157 --remote_args r6g set=ofdma:disabled<br>Response: Hidden: Anonymize-AP is enabled.   |
| BE 6Ghz                               | INFO |       |     | Setting DUT to have MUMIMO disabled<br>/home/greearb/ssh_remote.py --ip 192.168.100.157 --remote_args r6g set=mumimo:disabled<br>Response: Hidden: Anonymize-AP is enabled. |
| BE 6Ghz OFDMA Disabled Upload         | NOTE |       |     | Not adding packet capture, anonymize_ap is enabled.   |
| BE 6Ghz                               | INFO |       |     | Setting DUT to have OFDMA enabled<br>/home/greearb/ssh_remote.py --ip 192.168.100.157 --remote_args r6g set=ofdma:enabled<br>Response: Hidden: Anonymize-AP is enabled.     |
| BE 6Ghz                               | INFO |       |     | Setting DUT to have MUMIMO enabled<br>/home/greearb/ssh_remote.py --ip 192.168.100.157 --remote_args r6g set=mumimo:enabled<br>Response: Hidden: Anonymize-AP is enabled.   |
| BE 6Ghz OFDMA Enabled Upload          | NOTE |       |     | Not adding packet capture, anonymize_ap is enabled.   |
| BE 6Ghz Upload UDP Total Throughput   | PASS | 115   | 34  | UDP OFDMA 90th Percentile Latency: 73 Non-OFDMA: 423<br>UDP OFDMA Throughput: 114.81 Mbps Non-OFDMA: 35.90 Mbps<br>OFDMA Percentage: 319.796%                               |
| BE 6Ghz Upload Total Throughput       | PASS | 1,278 | 38  | Total OFDMA Throughput: 1,278.17 Mbps Non-OFDMA: 35.90 Mbps<br>OFDMA Percentage: 3,560.312%   |
| Configure 2.4GHz                      | INFO |       |     | Setting DUT to have OFDMA disabled<br>/home/greearb/ssh_remote.py --ip 192.168.100.157 --remote_args r2g set=ofdma:disabled<br>Response: Hidden: Anonymize-AP is enabled.   |
| Configure 5GHz                        | INFO |       |     | Setting DUT to have OFDMA disabled<br>/home/greearb/ssh_remote.py --ip 192.168.100.157 --remote_args r5g set=ofdma:disabled<br>Response: Hidden: Anonymize-AP is enabled.   |
| Configure 6GHz                        | INFO |       |     | Setting DUT to have OFDMA disabled<br>/home/greearb/ssh_remote.py --ip 192.168.100.157 --remote_args r6g set=ofdma:disabled<br>Response: Hidden: Anonymize-AP is enabled.   |

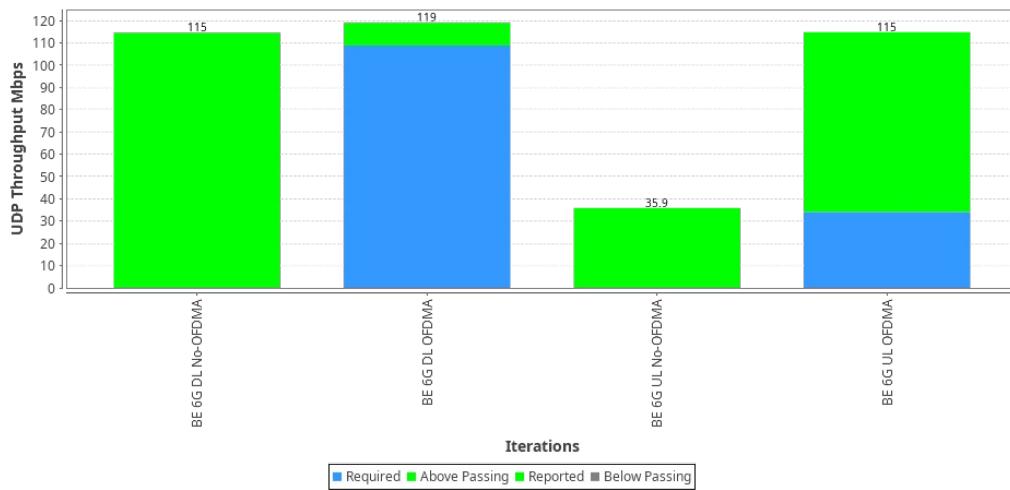
[CSV Data for 6.2.9 OFDMA Test \(31-STA\)](#)

### 6.2.9 OFDMA Test (31-STA)



[CSV Data for 6.2.9 OFDMA Test \(31-STA\)](#)

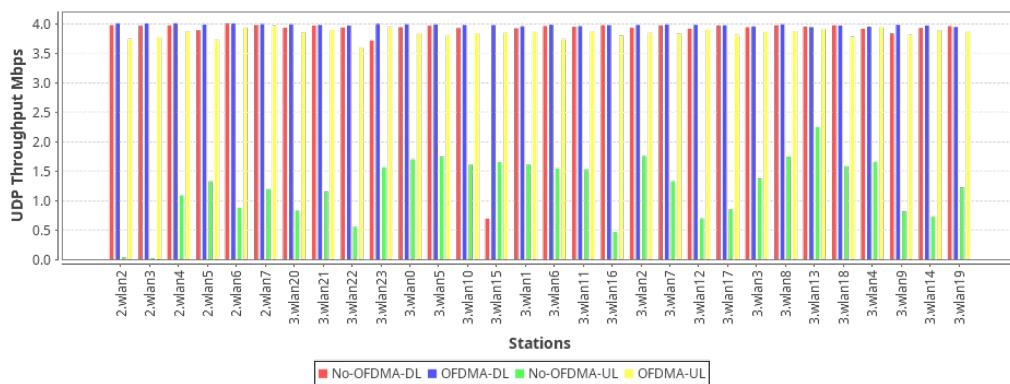
### 6.2.9 OFDMA Test (31-STA)



BE 6Ghz UDP Throughput (goodput) for each station.

[CSV Data for 6Ghz Throughput](#)

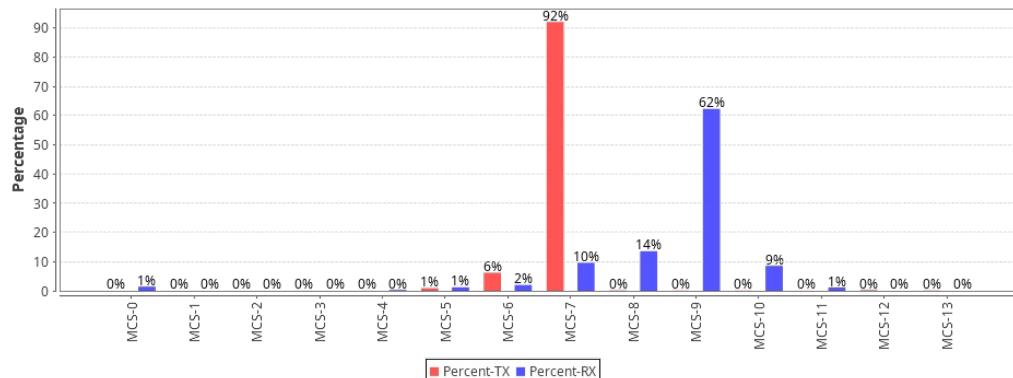
### 6Ghz Throughput



Histogram for WiFi MCS for packets sent and received by the wifi radios in the test.

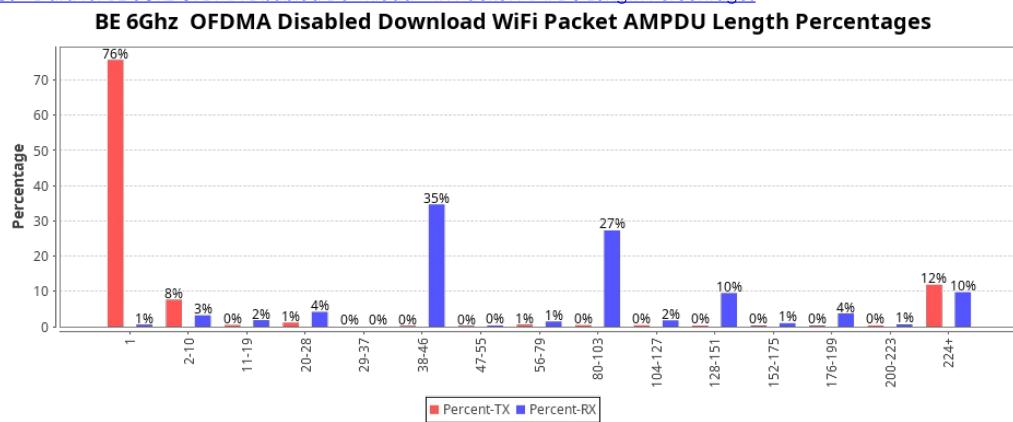
[CSV Data for BE 6Ghz OFDMA Disabled Download WiFi Packet MCS Percentages](#)

### BE 6Ghz OFDMA Disabled Download WiFi Packet MCS Percentages



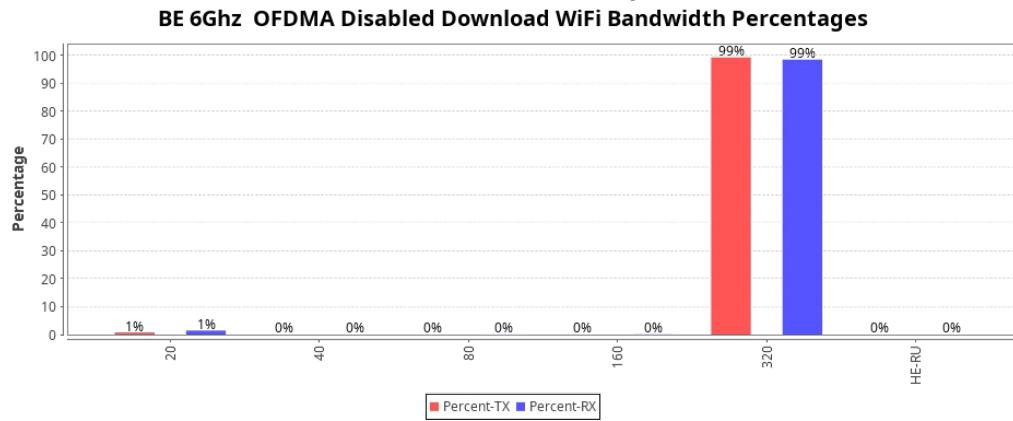
Block-Ack allows a series of frames to be sent in one transmit opportunity. This series of packets is known as a series of AMPDU frames. Having more frames in each AMPDU series normally improves throughput, but may increase latency or decrease airtime fairness. This histogram provides some visibility into the AMPDU chain length used in this test.

### CSV Data for BE 6Ghz OFDMA Disabled Download WiFi Packet AMPDU Length Percentages



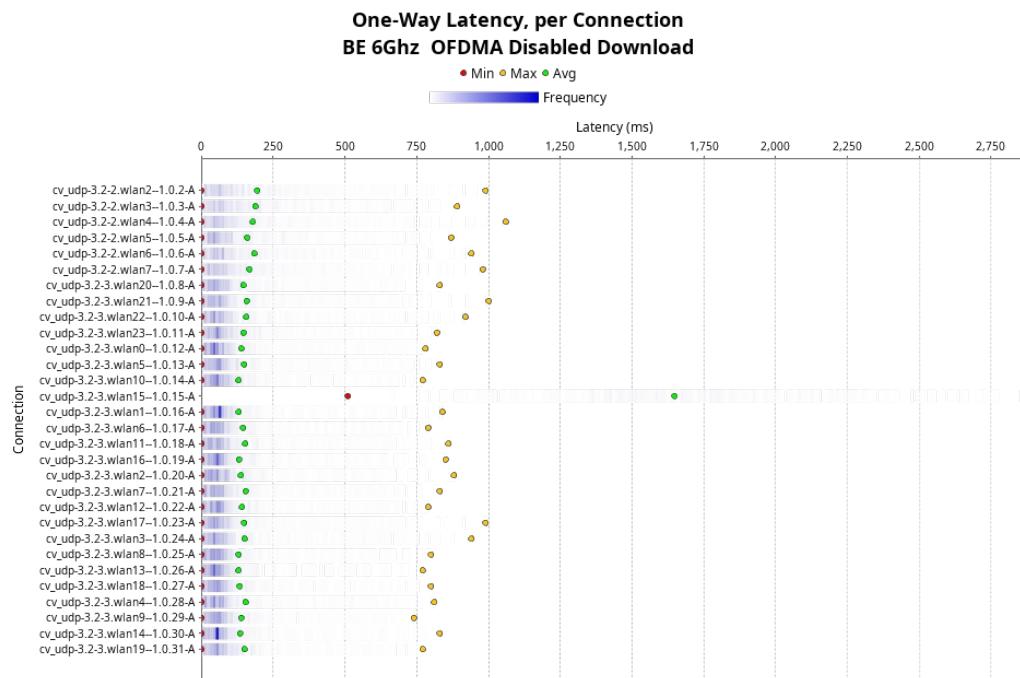
Histogram for WiFi bandwidths for packets sent and received by the wifi radios in the test.

### CSV Data for BE 6Ghz OFDMA Disabled Download WiFi Bandwidth Percentages

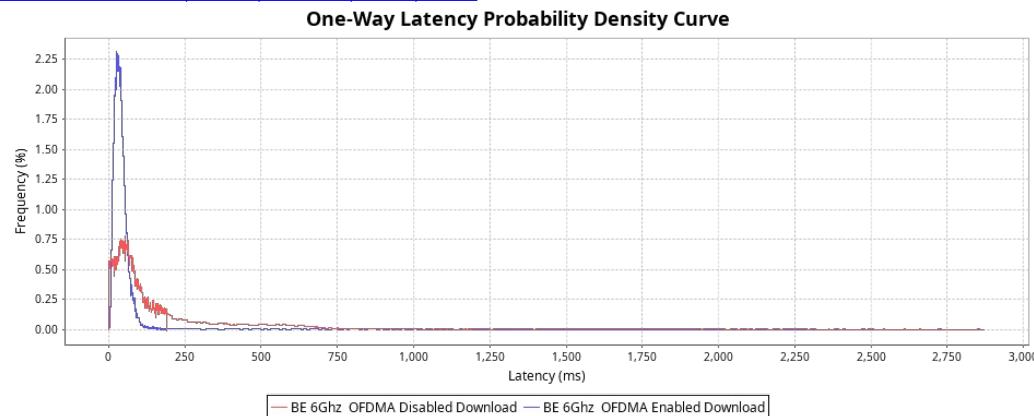


Distribution of latency values for Download UDP connections.

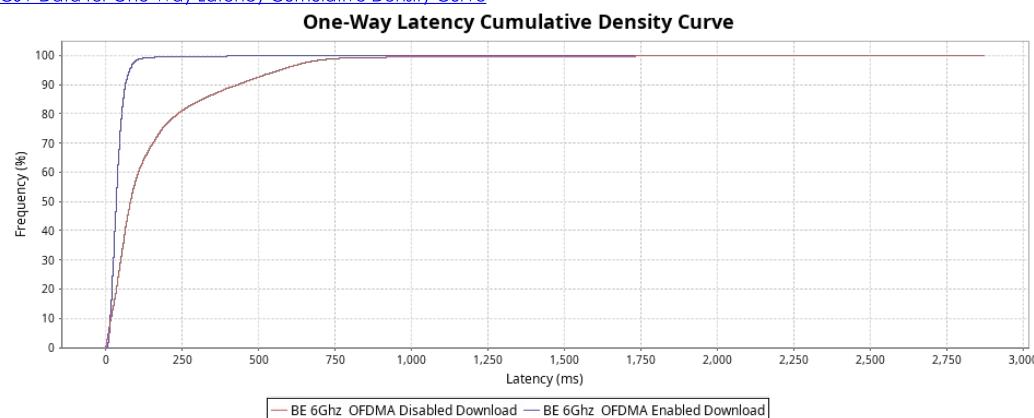
Latency readings are clamped to a [-1, 10] second range.



### CSV Data for One-Way Latency Probability Density Curve



CSV Data for One-Way Latency Cumulative Density Curve



Collected CSV Data: CSV: 6.2.9 OFDMA Test (31-STA) BE 6Ghz OFDMA Disabled Download

OFDMA: Snapshot BE 6Ghz OFDMA Disabled Download while running traffic.

|                  |              |             |        |             |            |                           |     |     |     |          |               |                   |
|------------------|--------------|-------------|--------|-------------|------------|---------------------------|-----|-----|-----|----------|---------------|-------------------|
| 1.2.20<br>wlan0  | 334.272 Mbps | 1.767 Mbps  | 52.618 | 1729.6 Mbps | 3.459 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 132 | -52 | [hidden] | 192.168.1.197 | e8:bf:b8:5a:12:f2 |
| 1.2.22<br>wlan2  | 20.071 Kbps  | 3.878 Mbps  | 56.296 | 1152.9 Mbps | 1.729 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 131 | -49 | [hidden] | 192.168.1.187 | e8:bf:b8:5a:12:e8 |
| 1.2.23<br>wlan3  | 20.001 Kbps  | 3.887 Mbps  | 34.572 | 1152.9 Mbps | 2.306 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 138 | -51 | [hidden] | 192.168.1.242 | e8:bf:b8:5a:17:2a |
| 1.2.24<br>wlan4  | 20.01 Kbps   | 3.881 Mbps  | 25.212 | 1152.9 Mbps | 4.323 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 338 | -45 | [hidden] | 192.168.1.193 | e8:bf:b8:59:4e:67 |
| 1.2.25<br>wlan5  | 19.739 Kbps  | 3.811 Mbps  | 15.496 | 1152.9 Mbps | 4.804 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 169 | -46 | [hidden] | 192.168.1.231 | e8:bf:b8:5a:10:e0 |
| 1.2.26<br>wlan6  | 20.01 Kbps   | 3.885 Mbps  | 43.84  | 1152.9 Mbps | 2.883 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 316 | -41 | [hidden] | 192.168.1.151 | e8:bf:b8:5a:10:90 |
| 1.2.27<br>wlan7  | 19.95 Kbps   | 3.878 Mbps  | 35.12  | 1152.9 Mbps | 2.883 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 329 | -41 | [hidden] | 192.168.1.103 | e8:bf:b8:5a:0f:91 |
| 1.3.28<br>wlan20 | 20.598 Kbps  | 3.989 Mbps  | 17.874 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 141 | -50 | [hidden] | 192.168.1.112 | e8:bf:b8:5a:79:3b |
| 1.3.29<br>wlan21 | 20.523 Kbps  | 3.955 Mbps  | 8.424  | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 160 | -49 | [hidden] | 192.168.1.236 | e8:bf:b8:5a:79:22 |
| 1.3.30<br>wlan22 | 20.458 Kbps  | 3.998 Mbps  | 19.424 | 34.4 Mbps   | 2.883 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 207 | -48 | [hidden] | 192.168.1.241 | e8:bf:b8:5a:79:27 |
| 1.3.31<br>wlan23 | 20.631 Kbps  | 3.997 Mbps  | 15.403 | 34.4 Mbps   | 4.323 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 109 | -51 | [hidden] | 192.168.1.164 | e8:bf:b8:5a:11:6c |
| 1.3.32<br>wlan0  | 20.469 Kbps  | 3.96 Mbps   | 23.874 | 34.4 Mbps   | 6 Mbps     | 802.11a-<br>BE 320<br>2x2 | 227 | 296 | -51 | [hidden] | 192.168.1.138 | 10:91:d1:96:26:7a |
| 1.3.33<br>wlan5  | 20.523 Kbps  | 3.947 Mbps  | 17.402 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 211 | -49 | [hidden] | 192.168.1.108 | 10:91:d1:96:76:48 |
| 1.3.34<br>wlan10 | 20.458 Kbps  | 3.979 Mbps  | 25     | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 194 | -49 | [hidden] | 192.168.1.237 | 10:91:d1:53:4d:5f |
| 1.3.35<br>wlan15 | 20.523 Kbps  | 634.92 Kbps | 22.529 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 164 | -49 | [hidden] | 192.168.1.140 | 10:91:d1:53:15:bf |
| 1.3.36<br>wlan1  | 20.479 Kbps  | 3.976 Mbps  | 22.936 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 127 | -49 | [hidden] | 192.168.1.173 | 10:91:d1:96:85:98 |
| 1.3.37<br>wlan6  | 20.571 Kbps  | 3.961 Mbps  | 17.199 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 135 | -49 | [hidden] | 192.168.1.124 | 10:91:d1:96:87:05 |
| 1.3.38<br>wlan11 | 20.447 Kbps  | 3.96 Mbps   | 13.52  | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 225 | -50 | [hidden] | 192.168.1.176 | e8:bf:b8:5a:2e:c7 |
| 1.3.39<br>wlan16 | 20.538 Kbps  | 3.968 Mbps  | 13.52  | 34.4 Mbps   | 3.459 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 129 | -50 | [hidden] | 192.168.1.132 | e8:bf:b8:5a:12:b1 |
| 1.3.40<br>wlan2  | 20.474 Kbps  | 3.989 Mbps  | 21.839 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 276 | -49 | [hidden] | 192.168.1.168 | 10:91:d1:96:85:93 |
| 1.3.41<br>wlan7  | 20.533 Kbps  | 3.974 Mbps  | 12.887 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 208 | -49 | [hidden] | 192.168.1.135 | 10:91:d1:96:89:44 |
| 1.3.42<br>wlan12 | 20.463 Kbps  | 3.97 Mbps   | 16.625 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 296 | -49 | [hidden] | 192.168.1.128 | 10:91:d1:53:27:30 |
| 1.3.43<br>wlan17 | 20.474 Kbps  | 3.971 Mbps  | 12.405 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 113 | -50 | [hidden] | 192.168.1.154 | e8:bf:b8:5a:11:62 |
| 1.3.44<br>wlan3  | 20.409 Kbps  | 3.964 Mbps  | 20.331 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 176 | -50 | [hidden] | 192.168.1.194 | a0:b3:39:64:82:ff |
| 1.3.45<br>wlan8  | 20.404 Kbps  | 3.933 Mbps  | 18.16  | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 124 | -49 | [hidden] | 192.168.1.133 | 10:91:d1:53:27:35 |
| 1.3.46<br>wlan13 | 20.469 Kbps  | 3.973 Mbps  | 17.157 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 137 | -48 | [hidden] | 192.168.1.113 | 10:91:d1:53:16:73 |
| 1.3.47<br>wlan18 | 20.399 Kbps  | 3.947 Mbps  | 13.625 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 180 | -50 | [hidden] | 192.168.1.110 | e8:bf:b8:5a:18:a1 |
| 1.3.48<br>wlan4  | 20.404 Kbps  | 3.958 Mbps  | 18.795 | 34.4 Mbps   | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 225 | -50 | [hidden] | 192.168.1.163 | a0:b3:39:64:82:e1 |
|                  |              |             |        |             |            | 802.11a-                  |     |     |     |          |               |                   |

|                  |             |            |        |           |            |                           |     |     |     |          |               |                   |
|------------------|-------------|------------|--------|-----------|------------|---------------------------|-----|-----|-----|----------|---------------|-------------------|
| 1.3.49<br>wlan9  | 20.409 Kbps | 3.969 Mbps | 21.212 | 34.4 Mbps | 4.323 Gbps | BE 320<br>2x2             | 227 | 139 | -51 | [hidden] | 192.168.1.186 | 10:91:d1:53:28:39 |
| 1.3.50<br>wlan14 | 20.404 Kbps | 3.977 Mbps | 18.357 | 34.4 Mbps | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 132 | -49 | [hidden] | 192.168.1.223 | e8:bf:b8:5a:0f:73 |
| 1.3.51<br>wlan19 | 20.404 Kbps | 3.978 Mbps | 17.805 | 34.4 Mbps | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 177 | -50 | [hidden] | 192.168.1.123 | e8:bf:b8:5a:78:78 |

| Port       | Tx-Bps 1m    | Rx-Bps 1m    | Link-Rate | IP            | MAC               |
|------------|--------------|--------------|-----------|---------------|-------------------|
| 1.3.2 eth2 | 129.779 Mbps | 358.849 Mbps | 10 Gbps   | 192.168.1.183 | 9c:69:b4:61:e5:b4 |

| Endpoint                   | Tx-Bps 1m    | Rx-Bps 1m    | TxPkts | RxPkts | RX Lat (ms) | RT Lat (ms) | Jitter | Rx Pkt Loss % | Rx OOO % | Rx DUP | Rx Seq Drop |
|----------------------------|--------------|--------------|--------|--------|-------------|-------------|--------|---------------|----------|--------|-------------|
| cv_tcp-3.2-wlan0-1.0.0-A   | 114.367 Mbps | 0 bps        | 13675  | 0      | 0           | 23.669      | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-wlan0-1.0.0-B   | 0 bps        | 114.136 Mbps | 0      | 13802  | 23.669      | 23.669      | 7,517  | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-wlan0-1.0.1-A   | 106.687 Mbps | 0 bps        | 12630  | 0      | 0           | 6.868       | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-wlan0-1.0.1-B   | 0 bps        | 106.791 Mbps | 0      | 12752  | 6.868       | 6.868       | 4,356  | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-wlan0-1.0.2-A   | 112.861 Mbps | 0 bps        | 13390  | 0      | 0           | 4,285       | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-wlan0-1.0.2-B   | 0 bps        | 113.008 Mbps | 0      | 13501  | 4,285       | 4,285       | 1,863  | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan2-1.0.2-A   | 20.029 Kbps  | 4.013 Mbps   | 225    | 45018  | 51          | 113         | 0      | 0             | 0        | 0      | 62          |
| cv_udp-3.2-wlan2-1.0.2-B   | 4.002 Mbps   | 20.061 Kbps  | 45310  | 226    | 62          | 113         | 35     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan3-1.0.3-A   | 19.995 Kbps  | 3.971 Mbps   | 225    | 44751  | 50          | 88          | 0      | 0.323         | 0        | 0      | 283         |
| cv_udp-3.2-wlan3-1.0.3-B   | 3.998 Mbps   | 19.875 Kbps  | 44896  | 223    | 38          | 88          | 40     | 0             | 0        | 0      | 1           |
| cv_udp-3.2-wlan4-1.0.4-A   | 19.995 Kbps  | 3.968 Mbps   | 225    | 44717  | 122         | 138         | 0      | 0.704         | 0        | 0      | 409         |
| cv_udp-3.2-wlan4-1.0.4-B   | 4.002 Mbps   | 19.995 Kbps  | 45034  | 225    | 16          | 138         | 25     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan5-1.0.5-A   | 19.941 Kbps  | 3.894 Mbps   | 225    | 43902  | 42          | 56          | 0      | 2.613         | 0        | 0      | 1,178       |
| cv_udp-3.2-wlan5-1.0.5-B   | 3.998 Mbps   | 19.941 Kbps  | 45080  | 225    | 14          | 56          | 11     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan6-1.0.6-A   | 19.847 Kbps  | 4.002 Mbps   | 225    | 45116  | 108         | 140         | 0      | 0             | 0        | 0      | 248         |
| cv_udp-3.2-wlan6-1.0.6-B   | 4.002 Mbps   | 19.753 Kbps  | 45080  | 224    | 32          | 140         | 31     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan7-1.0.7-A   | 19.89 Kbps   | 3.984 Mbps   | 225    | 44878  | 61          | 91          | 0      | 0.245         | 0        | 0      | 340         |
| cv_udp-3.2-wlan7-1.0.7-B   | 4.002 Mbps   | 19.902 Kbps  | 44988  | 224    | 30          | 91          | 28     | 0             | 0        | 0      | 1           |
| cv_udp-3.2-wlan20-1.0.8-A  | 19.924 Kbps  | 3.961 Mbps   | 225    | 44228  | 126         | 139         | 0      | 1.286         | 0        | 0      | 852         |
| cv_udp-3.2-wlan20-1.0.8-B  | 3.998 Mbps   | 19.875 Kbps  | 44804  | 223    | 13          | 139         | 20     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan21-1.0.9-A  | 19.874 Kbps  | 3.96 Mbps    | 225    | 44676  | 47          | 59          | 0      | 0.286         | 0        | 0      | 450         |
| cv_udp-3.2-wlan21-1.0.9-B  | 3.998 Mbps   | 19.781 Kbps  | 44804  | 223    | 12          | 59          | 19     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan22-1.0.10-A | 19.874 Kbps  | 3.918 Mbps   | 225    | 44265  | 141         | 153         | 0      | 1.203         | 0        | 0      | 769         |
| cv_udp-3.2-wlan22-1.0.10-B | 4.002 Mbps   | 19.875 Kbps  | 44804  | 223    | 12          | 153         | 10     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan23-1.0.11-A | 19.874 Kbps  | 3.733 Mbps   | 225    | 41822  | 46          | 61          | 0      | 6.751         | 0        | 0      | 3,304       |
| cv_udp-3.2-wlan23-1.0.11-B | 4 Mbps       | 19.935 Kbps  | 44850  | 224    | 15          | 61          | 17     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan0-1.0.12-A  | 19.934 Kbps  | 3.956 Mbps   | 225    | 44339  | 43          | 51          | 0      | 1.644         | 0        | 0      | 787         |
| cv_udp-3.2-wlan0-1.0.12-B  | 4.001 Mbps   | 19.984 Kbps  | 45080  | 225    | 8           | 51          | 8      | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan5-1.0.13-A  | 19.934 Kbps  | 3.947 Mbps   | 225    | 44538  | 40          | 53          | 0      | 0.797         | 0        | 0      | 450         |
| cv_udp-3.2-wlan5-1.0.13-B  | 4.002 Mbps   | 19.902 Kbps  | 44896  | 224    | 13          | 53          | 20     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan10-1.0.14-A | 19.927 Kbps  | 3.917 Mbps   | 226    | 44321  | 51          | 60          | 0      | 1.684         | 0        | 0      | 918         |
| cv_udp-3.2-wlan10-1.0.14-B | 4.002 Mbps   | 19.967 Kbps  | 45080  | 225    | 9           | 60          | 12     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan15-1.0.15-A | 19.927 Kbps  | 668.886 Kbps | 226    | 7548   | 1,888       | 1,901       | 14     | 83.341        | 0        | 0      | 37,892      |
| cv_udp-3.2-wlan15-1.0.15-B | 4 Mbps       | 19.927 Kbps  | 45310  | 226    | 13          | 1,901       | 15     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan1-1.0.16-A  | 19.927 Kbps  | 3.889 Mbps   | 226    | 43935  | 55          | 63          | 0      | 2.440         | 0        | 0      | 1,007       |
| cv_udp-3.2-wlan1-1.0.16-B  | 3.998 Mbps   | 19.874 Kbps  | 45034  | 224    | 8           | 63          | 7      | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan6-1.0.17-A  | 20.019 Kbps  | 3.943 Mbps   | 222    | 43957  | 79          | 86          | 0      | 0.350         | 0        | 0      | 525         |
| cv_udp-3.2-wlan6-1.0.17-B  | 4.002 Mbps   | 20.035 Kbps  | 44896  | 224    | 7           | 86          | 19     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan11-1.0.18-A | 19.925 Kbps  | 3.978 Mbps   | 222    | 43776  | 125         | 135         | 1      | 1.560         | 0        | 0      | 706         |
| cv_udp-3.2-wlan11-1.0.18-B | 4 Mbps       | 19.927 Kbps  | 45264  | 226    | 10          | 135         | 7      | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan16-1.0.19-A | 19.985 Kbps  | 3.967 Mbps   | 223    | 44221  | 41          | 59          | 0      | 0.689         | 0        | 0      | 445         |
| cv_udp-3.2-wlan16-1.0.19-B | 3.999 Mbps   | 20.019 Kbps  | 44528  | 223    | 18          | 59          | 23     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan2-1.0.20-A  | 19.891 Kbps  | 3.939 Mbps   | 222    | 43852  | 39          | 50          | 0      | 1.416         | 0        | 0      | 676         |
| cv_udp-3.2-wlan2-1.0.20-B  | 3.999 Mbps   | 19.924 Kbps  | 44482  | 222    | 11          | 50          | 10     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan7-1.0.21-A  | 19.968 Kbps  | 3.957 Mbps   | 223    | 44121  | 57          | 65          | 2      | 0.393         | 0        | 0      | 461         |
| cv_udp-3.2-wlan7-1.0.21-B  | 3.999 Mbps   | 19.84 Kbps   | 45034  | 224    | 8           | 65          | 11     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan12-1.0.22-A | 19.935 Kbps  | 3.891 Mbps   | 223    | 43386  | 60          | 68          | 0      | 2.223         | 0        | 0      | 1,050       |
| cv_udp-3.2-wlan12-1.0.22-B | 4 Mbps       | 20.021 Kbps  | 45172  | 226    | 8           | 68          | 6      | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan17-1.0.23-A | 19.935 Kbps  | 3.938 Mbps   | 223    | 43917  | 52          | 61          | 0      | 1.372         | 0        | 0      | 611         |
| cv_udp-3.2-wlan17-1.0.23-B | 4.001 Mbps   | 19.891 Kbps  | 44528  | 222    | 9           | 61          | 12     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-wlan3-1.0.24-A  | 19.995 Kbps  | 3.925 Mbps   | 224    | 43860  | 54          | 63          | 0      | 0.157         | 0        | 0      | 760         |

|                              |             |             |       |       |     |     |    |       |   |   |       |
|------------------------------|-------------|-------------|-------|-------|-----|-----|----|-------|---|---|-------|
| cv_udp-3.2-3.wlan3-1.0.24-B  | 3.997 Mbps  | 19.995 Kbps | 44666 | 224   | 9   | 63  | 19 | 0     | 0 | 0 | 0     |
| cv_udp-3.2-3.wlan8-1.0.25-A  | 19.995 Kbps | 3.97 Mbps   | 223   | 44368 | 40  | 50  | 0  | 0     | 0 | 0 | 344   |
| cv_udp-3.2-3.wlan8-1.0.25-B  | 3.999 Mbps  | 19.934 Kbps | 44942 | 224   | 10  | 50  | 28 | 0     | 0 | 0 | 0     |
| cv_udp-3.2-3.wlan13-1.0.26-A | 19.941 Kbps | 3.947 Mbps  | 223   | 44129 | 108 | 116 | 0  | 0.588 | 0 | 0 | 583   |
| cv_udp-3.2-3.wlan13-1.0.26-B | 3.999 Mbps  | 19.925 Kbps | 44390 | 221   | 8   | 116 | 11 | 0     | 0 | 0 | 0     |
| cv_udp-3.2-3.wlan18-1.0.27-A | 19.941 Kbps | 3.967 Mbps  | 223   | 44340 | 64  | 76  | 0  | 0.319 | 0 | 0 | 372   |
| cv_udp-3.2-3.wlan18-1.0.27-B | 3.998 Mbps  | 19.875 Kbps | 44482 | 222   | 12  | 76  | 19 | 0     | 0 | 0 | 0     |
| cv_udp-3.2-3.wlan4-1.0.28-A  | 19.83 Kbps  | 3.905 Mbps  | 223   | 43662 | 65  | 72  | 0  | 2.248 | 0 | 0 | 1,011 |
| cv_udp-3.2-3.wlan4-1.0.28-B  | 3.998 Mbps  | 19.847 Kbps | 44666 | 223   | 7   | 72  | 5  | 0     | 0 | 0 | 0     |
| cv_udp-3.2-3.wlan9-1.0.29-A  | 19.89 Kbps  | 3.821 Mbps  | 223   | 42741 | 68  | 78  | 0  | 3.161 | 0 | 0 | 2,063 |
| cv_udp-3.2-3.wlan9-1.0.29-B  | 3.999 Mbps  | 19.934 Kbps | 44896 | 224   | 10  | 78  | 26 | 0     | 0 | 0 | 0     |
| cv_udp-3.2-3.wlan14-1.0.30-A | 19.89 Kbps  | 3.915 Mbps  | 223   | 43821 | 107 | 116 | 0  | 1.179 | 0 | 0 | 891   |
| cv_udp-3.2-3.wlan14-1.0.30-B | 3.999 Mbps  | 19.924 Kbps | 44344 | 221   | 9   | 116 | 8  | 0     | 0 | 0 | 0     |
| cv_udp-3.2-3.wlan19-1.0.31-A | 19.874 Kbps | 3.95 Mbps   | 223   | 44190 | 54  | 63  | 0  | 0.451 | 0 | 0 | 568   |
| cv_udp-3.2-3.wlan19-1.0.31-B | 3.998 Mbps  | 19.875 Kbps | 44390 | 221   | 9   | 63  | 9  | 0     | 0 | 0 | 0     |

## Trigger frame Bandwidth Report: BE 6Ghz OFDMA Disabled

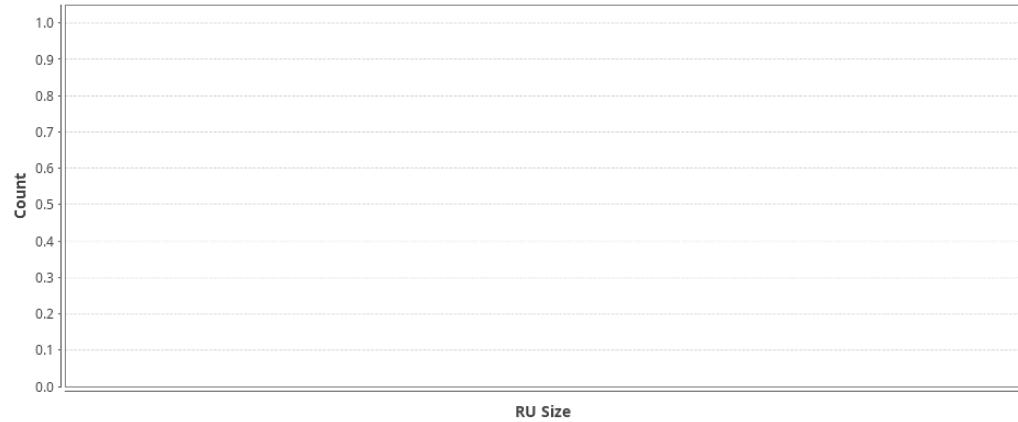
Download: Last few frames.

Each row shows the reported bandwidth allocation. Each cell in the row indicates the AID (station identifier) and its respective bandwidth. Duplicated (same bandwidth allocation) sequences of frames are skipped, with only the last one being reported.

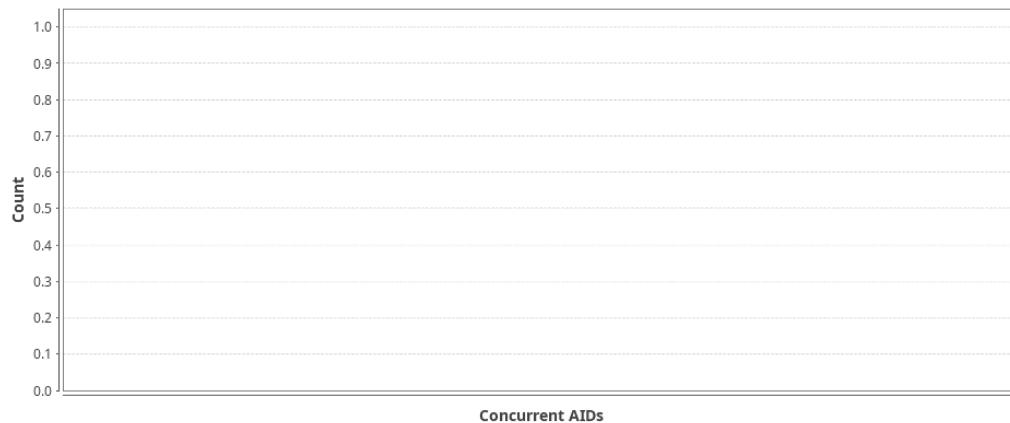
BSRP frames are currently skipped.

| Frame | MU-MIMO SS | Dups | Type | 0-8 | 9-17 | 18-26 | 27-36 | 37-45 | 46-54 | 55-63 | 64-73 | 74-82 | 83-91 | 92-100 | 101-110 | 111-119 | 120-128 | 129-137 | 138-147 |
|-------|------------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|---------|---------|
|-------|------------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|---------|---------|

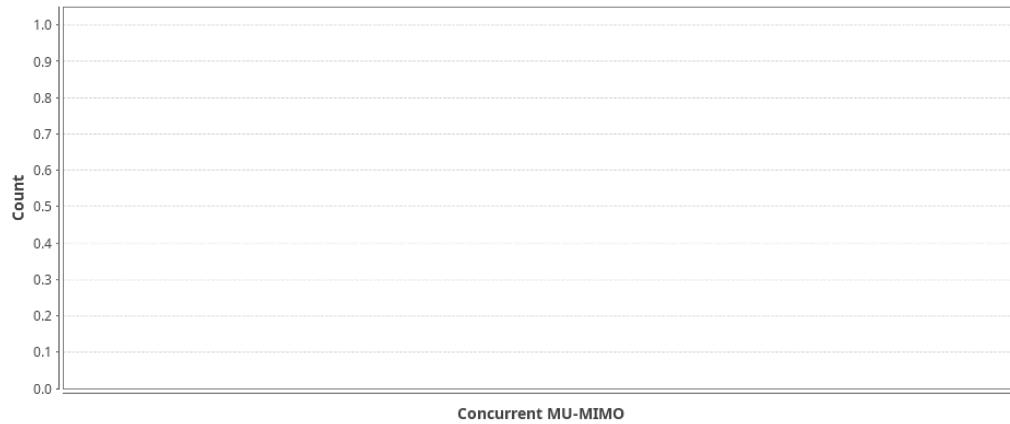
**6.2.9 OFDMA Test (31-STA)  
BE 6Ghz OFDMA Disabled Download  
Trigger frame RU Allocation Counts**



**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Disabled Download**  
**Trigger frame Concurrent AID Counts**



**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Disabled Download**  
**Trigger frame Concurrent MU-MIMO Counts**

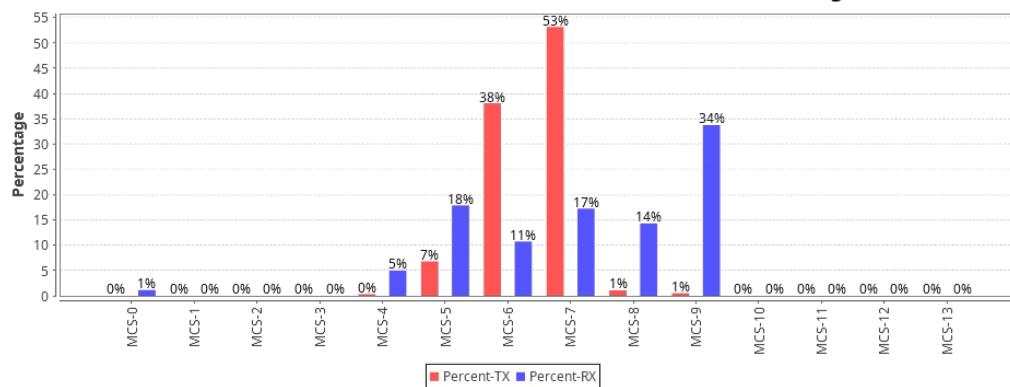


[Full OFDMA Trigger Packet Capture HTML report: BE 6Ghz OFDMA Disabled Download](#)

Histogram for WiFi MCS for packets sent and received by the wifi radios in the test.

[CSV Data for BE 6Ghz OFDMA Enabled Download WiFi Packet MCS Percentages](#)

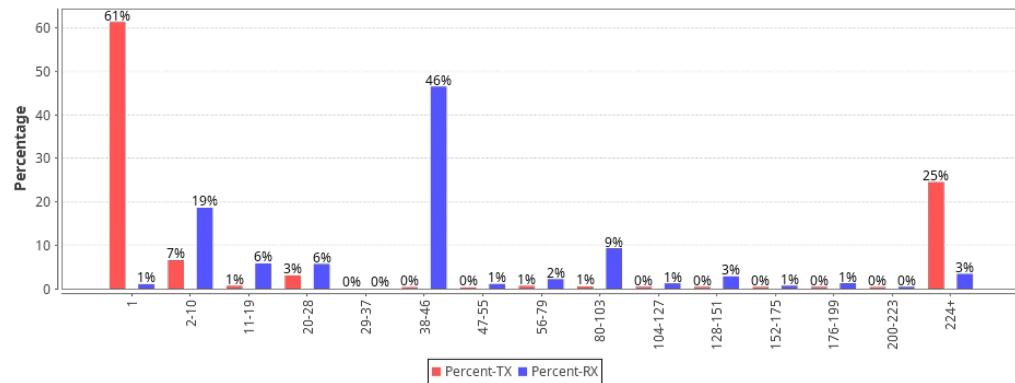
**BE 6Ghz OFDMA Enabled Download WiFi Packet MCS Percentages**



Block-Ack allows a series of frames to be sent in one transmit opportunity. This series of packets is known as a series of AMPDU frames. Having more frames in each AMPDU series normally improves throughput, but may increase latency or decrease airtime fairness. This histogram provides some visibility into the AMPDU chain length used in this test.

[CSV Data for BE 6Ghz OFDMA Enabled Download WiFi Packet AMPDU Length Percentages](#)

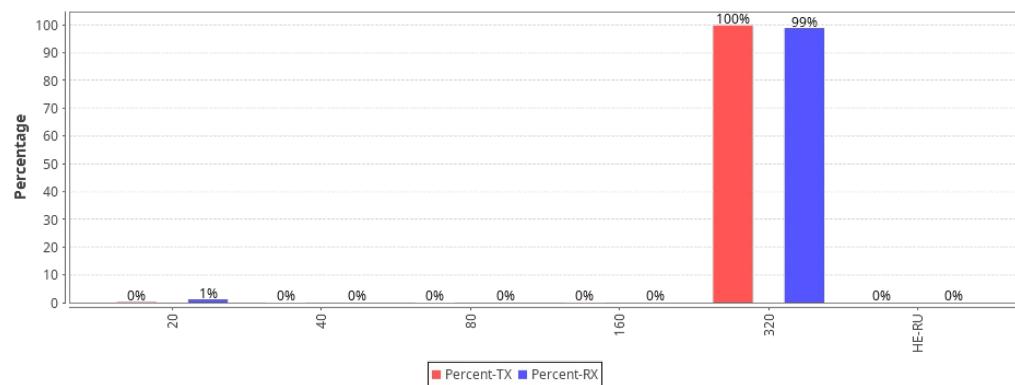
### BE 6Ghz OFDMA Enabled Download WiFi Packet AMPDU Length Percentages



Histogram for WiFi bandwidths for packets sent and received by the wifi radios in the test.

[CSV Data for BE 6Ghz OFDMA Enabled Download WiFi Bandwidth Percentages](#)

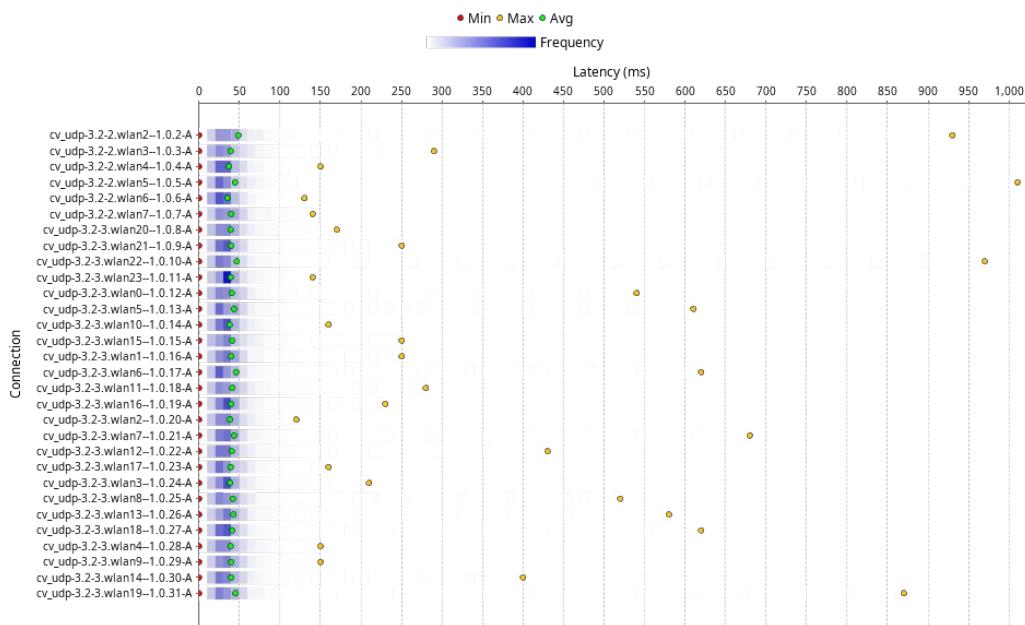
### BE 6Ghz OFDMA Enabled Download WiFi Bandwidth Percentages



Distribution of latency values for Download UDP connections.

Latency readings are clamped to a [-1, 10] second range.

### One-Way Latency, per Connection BE 6Ghz OFDMA Enabled Download



[Collected CSV Data: CSV: 6.2.9 OFDMA Test \(31-STA\) BE 6Ghz OFDMA Enabled Download](#)

OFDMA: Snapshot BE 6Ghz OFDMA Enabled Download while running traffic.

| Port          | Tx-Bps 1m   | Rx-Bps 1m  | Tx-Fail % | Tx Link-Rate | Rx Link-Rate | Mode               | Channel | Last CX-Time (ms) | RSSI (dBm) | AP       | IP            | MAC               |
|---------------|-------------|------------|-----------|--------------|--------------|--------------------|---------|-------------------|------------|----------|---------------|-------------------|
| 1.2.20 wlan0  | 1.427 Gbps  | 4.821 Mbps | 51.934    | 2882.6 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 128               | -54        | [hidden] | 192.168.1.197 | e8:bf:b8:5a:12:f2 |
| 1.2.22 wlan2  | 21.778 Kbps | 4.24 Mbps  | 40.607    | 34.4 Mbps    | 1.441 Gbps   | 802.11a-BE 320 2x2 | 227     | 289               | -53        | [hidden] | 192.168.1.187 | e8:bf:b8:5a:12:e8 |
| 1.2.23 wlan3  | 21.905 Kbps | 4.238 Mbps | 24.894    | 34.4 Mbps    | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 608               | -54        | [hidden] | 192.168.1.242 | e8:bf:b8:5a:17:2a |
| 1.2.24 wlan4  | 21.692 Kbps | 4.239 Mbps | 20.697    | 1152.9 Mbps  | 3.843 Gbps   | 802.11a-BE 320 2x2 | 227     | 601               | -45        | [hidden] | 192.168.1.193 | e8:bf:b8:59:4e:67 |
| 1.2.25 wlan5  | 21.685 Kbps | 4.219 Mbps | 12.484    | 1152.9 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 149               | -45        | [hidden] | 192.168.1.231 | e8:bf:b8:5a:10:e0 |
| 1.2.26 wlan6  | 21.692 Kbps | 4.238 Mbps | 48.798    | 1152.9 Mbps  | 3.843 Gbps   | 802.11a-BE 320 2x2 | 227     | 3,706             | -45        | [hidden] | 192.168.1.151 | e8:bf:b8:5a:10:90 |
| 1.2.27 wlan7  | 21.692 Kbps | 4.239 Mbps | 24.301    | 1152.9 Mbps  | 3.459 Gbps   | 802.11a-BE 320 2x2 | 227     | 138               | -45        | [hidden] | 192.168.1.103 | e8:bf:b8:5a:0f:91 |
| 1.3.28 wlan20 | 15.556 Kbps | 3.039 Mbps | 14.64     | 34.4 Mbps    | 2.594 Gbps   | 802.11a-BE 320 2x2 | 227     | 132               | -51        | [hidden] | 192.168.1.112 | e8:bf:b8:5a:79:3b |
| 1.3.29 wlan21 | 15.601 Kbps | 3.039 Mbps | 16.22     | 34.4 Mbps    | 3.459 Gbps   | 802.11a-BE 320 2x2 | 227     | 125               | -49        | [hidden] | 192.168.1.236 | e8:bf:b8:5a:79:22 |
| 1.3.30 wlan22 | 15.548 Kbps | 3.027 Mbps | 21.33     | 34.4 Mbps    | 1.441 Gbps   | 802.11a-BE 320 2x2 | 227     | 130               | -53        | [hidden] | 192.168.1.241 | e8:bf:b8:5a:79:27 |
| 1.3.31 wlan23 | 15.597 Kbps | 3.046 Mbps | 18.83     | 34.4 Mbps    | 3.459 Gbps   | 802.11a-BE 320 2x2 | 227     | 871               | -50        | [hidden] | 192.168.1.164 | e8:bf:b8:5a:11:6c |
| 1.3.32 wlan0  | 15.548 Kbps | 3.035 Mbps | 30.466    | 34.4 Mbps    | 1.441 Gbps   | 802.11a-BE 320 2x2 | 227     | 243               | -50        | [hidden] | 192.168.1.138 | 10:91:d1:96:26:7a |
| 1.3.33 wlan5  | 15.556 Kbps | 3.035 Mbps | 31.61     | 34.4 Mbps    | 1.441 Gbps   | 802.11a-BE 320 2x2 | 227     | 652               | -50        | [hidden] | 192.168.1.108 | 10:91:d1:96:76:48 |
| 1.3.34 wlan10 | 15.568 Kbps | 3.037 Mbps | 18.117    | 34.4 Mbps    | 2.883 Gbps   | 802.11a-BE 320 2x2 | 227     | 120               | -50        | [hidden] | 192.168.1.237 | 10:91:d1:53:4d:5f |
| 1.3.35 wlan15 | 15.564 Kbps | 3.035 Mbps | 26.631    | 34.4 Mbps    | 2.306 Gbps   | 802.11a-BE 320 2x2 | 227     | 196               | -50        | [hidden] | 192.168.1.140 | 10:91:d1:53:15:bf |
| 1.3.36 wlan1  | 15.56 Kbps  | 3.035 Mbps | 18.041    | 34.4 Mbps    | 2.594 Gbps   | 802.11a-BE 320 2x2 | 227     | 123               | -50        | [hidden] | 192.168.1.173 | 10:91:d1:96:85:98 |
| 1.3.37 wlan6  | 15.56 Kbps  | 3.033 Mbps | 28.096    | 34.4 Mbps    | 1.73 Gbps    | 802.11a-BE 320 2x2 | 227     | 109               | -50        | [hidden] | 192.168.1.124 | 10:91:d1:96:87:05 |
| 1.3.38 wlan11 | 15.552 Kbps | 3.033 Mbps | 13.784    | 34.4 Mbps    | 2.594 Gbps   | 802.11a-BE 320 2x2 | 227     | 998               | -52        | [hidden] | 192.168.1.176 | e8:bf:b8:5a:2e:c7 |
| 1.3.39 wlan16 | 15.576 Kbps | 3.037 Mbps | 12.005    | 34.4 Mbps    | 2.306 Gbps   | 802.11a-BE 320 2x2 | 227     | 143               | -51        | [hidden] | 192.168.1.132 | e8:bf:b8:5a:12:b1 |
| 1.3.40 wlan2  | 15.592 Kbps | 3.039 Mbps | 14.71     | 34.4 Mbps    | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 142               | -50        | [hidden] | 192.168.1.168 | 10:91:d1:96:85:93 |
| 1.3.41 wlan7  | 15.588 Kbps | 3.039 Mbps | 35.674    | 34.4 Mbps    | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 318               | -51        | [hidden] | 192.168.1.135 | 10:91:d1:96:89:44 |
| 1.3.42 wlan12 | 15.588 Kbps | 3.037 Mbps | 11.923    | 34.4 Mbps    | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 245               | -50        | [hidden] | 192.168.1.128 | 10:91:d1:53:27:30 |
| 1.3.43 wlan17 | 15.584 Kbps | 3.037 Mbps | 8.781     | 34.4 Mbps    | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 138               | -51        | [hidden] | 192.168.1.154 | e8:bf:b8:5a:11:62 |
| 1.3.44 wlan3  | 15.539 Kbps | 3.035 Mbps | 18.624    | 34.4 Mbps    | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 737               | -51        | [hidden] | 192.168.1.194 | a0:b3:39:64:82:ff |
| 1.3.45 wlan8  | 15.543 Kbps | 3.035 Mbps | 15.77     | 34.4 Mbps    | 1.73 Gbps    | 802.11a-BE 320 2x2 | 227     | 868               | -51        | [hidden] | 192.168.1.133 | 10:91:d1:53:27:35 |
| 1.3.46 wlan13 | 15.589 Kbps | 3.035 Mbps | 25.299    | 34.4 Mbps    | 2.883 Gbps   | 802.11a-BE 320 2x2 | 227     | 131               | -49        | [hidden] | 192.168.1.113 | 10:91:d1:53:16:73 |
| 1.3.47 wlan18 | 15.539 Kbps | 3.033 Mbps | 12.5      | 34.4 Mbps    | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 152               | -52        | [hidden] | 192.168.1.110 | e8:bf:b8:5a:18:a1 |
| 1.3.48 wlan4  | 15.535 Kbps | 3.033 Mbps | 17.844    | 34.4 Mbps    | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 944               | -51        | [hidden] | 192.168.1.163 | a0:b3:39:64:82:e1 |
| 1.3.49 wlan9  | 15.539 Kbps | 3.032 Mbps | 20        | 34.4 Mbps    | 3.459 Gbps   | 802.11a-BE 320 2x2 | 227     | 290               | -49        | [hidden] | 192.168.1.186 | 10:91:d1:53:28:39 |
| 1.3.50 wlan14 | 15.535 Kbps | 3.03 Mbps  | 16.015    | 34.4 Mbps    | 2.306 Gbps   | 802.11a-BE 320 2x2 | 227     | 132               | -50        | [hidden] | 192.168.1.223 | e8:bf:b8:5a:0f:73 |
| 1.3.51 wlan19 | 15.543 Kbps | 3.023 Mbps | 12.563    | 34.4 Mbps    | 1.729 Gbps   | 802.11a-BE 320 2x2 | 227     | 150               | -51        | [hidden] | 192.168.1.123 | e8:bf:b8:5a:78:78 |

| Port       | Tx-Bps 1m    | Rx-Bps 1m  | Link-Rate | IP            | MAC               |
|------------|--------------|------------|-----------|---------------|-------------------|
| 1.3.2 eth2 | 132.893 Mbps | 1.493 Gbps | 10 Gbps   | 192.168.1.183 | 9c:69:b4:61:e5:b4 |

| Endpoint                    | Tx-Bps 1m    | Rx-Bps 1m    | TxPkts | RxPkts | RX Lat (ms) | RT Lat (ms) | Jitter | Rx Pkt Loss % | Rx OOO % | Rx DUP | Rx Seq Drop |
|-----------------------------|--------------|--------------|--------|--------|-------------|-------------|--------|---------------|----------|--------|-------------|
| cv_tcp-3.2-2.wlan0--1.0.0-A | 478.348 Mbps | 0 bps        | 57285  | 0      | 0           | 1,017       | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0--1.0.0-B | 0 bps        | 478.356 Mbps | 0      | 57488  | 1,017       | 1,017       | 356    | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0--1.0.1-A | 471.285 Mbps | 0 bps        | 56530  | 0      | 0           | 775         | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0--1.0.1-B | 0 bps        | 471.163 Mbps | 0      | 56707  | 775         | 775         | 231    | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0--1.0.2-A | 471.33 Mbps  | 0 bps        | 56555  | 0      | 0           | 811         | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0--1.0.2-B | 0 bps        | 471.332 Mbps | 0      | 56655  | 811         | 811         | 216    | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan2--1.0.2-A | 20.021 Kbps  | 3.998 Mbps   | 224    | 44944  | 34          | 66          | 0      | 0             | 0        | 0      | 44          |

|                              |             |             |       |       |    |    |    |       |   |   |     |
|------------------------------|-------------|-------------|-------|-------|----|----|----|-------|---|---|-----|
| cv_udp-3.2-2.wlan2-1.0.2-B   | 3.998 Mbps  | 19.994 Kbps | 45172 | 225   | 32 | 66 | 32 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-2.wlan3-1.0.3-A   | 20.081 Kbps | 3.991 Mbps  | 225   | 44987 | 25 | 57 | 0  | 0     | 0 | 0 | 47  |
| cv_udp-3.2-2.wlan3-1.0.3-B   | 3.998 Mbps  | 19.9 Kbps   | 45172 | 225   | 32 | 57 | 42 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-2.wlan4-1.0.4-A   | 19.894 Kbps | 4 Mbps      | 224   | 44988 | 28 | 47 | 0  | 0     | 0 | 0 | 0   |
| cv_udp-3.2-2.wlan4-1.0.4-B   | 3.998 Mbps  | 19.927 Kbps | 44942 | 224   | 19 | 47 | 24 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-2.wlan5-1.0.5-A   | 19.95 Kbps  | 3.978 Mbps  | 225   | 44742 | 26 | 49 | 0  | 0.445 | 0 | 0 | 246 |
| cv_udp-3.2-2.wlan5-1.0.5-B   | 4.002 Mbps  | 19.927 Kbps | 44942 | 224   | 23 | 49 | 10 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-2.wlan6-1.0.6-A   | 19.823 Kbps | 3.998 Mbps  | 225   | 45040 | 24 | 44 | 0  | 0     | 0 | 0 | 40  |
| cv_udp-3.2-2.wlan6-1.0.6-B   | 4 Mbps      | 19.894 Kbps | 44988 | 224   | 20 | 44 | 20 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-2.wlan7-1.0.7-A   | 19.917 Kbps | 3.979 Mbps  | 225   | 44840 | 36 | 55 | 0  | 0.227 | 0 | 0 | 194 |
| cv_udp-3.2-2.wlan7-1.0.7-B   | 4 Mbps      | 19.987 Kbps | 44942 | 224   | 19 | 55 | 22 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan20-1.0.8-A  | 19.867 Kbps | 3.984 Mbps  | 225   | 44957 | 26 | 53 | 0  | 0     | 0 | 0 | 203 |
| cv_udp-3.2-3.wlan20-1.0.8-B  | 4.003 Mbps  | 19.994 Kbps | 45448 | 227   | 27 | 53 | 18 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan21-1.0.9-A  | 20.088 Kbps | 3.971 Mbps  | 226   | 44730 | 29 | 50 | 0  | 0     | 0 | 0 | 304 |
| cv_udp-3.2-3.wlan21-1.0.9-B  | 4.001 Mbps  | 19.933 Kbps | 45356 | 226   | 21 | 50 | 25 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan22-1.0.10-A | 19.927 Kbps | 3.957 Mbps  | 225   | 44732 | 25 | 59 | 0  | 0     | 0 | 0 | 486 |
| cv_udp-3.2-3.wlan22-1.0.10-B | 4 Mbps      | 19.96 Kbps  | 45494 | 227   | 34 | 59 | 39 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan23-1.0.11-A | 19.987 Kbps | 3.984 Mbps  | 226   | 45090 | 36 | 59 | 0  | 0     | 0 | 0 | 174 |
| cv_udp-3.2-3.wlan23-1.0.11-B | 4.001 Mbps  | 19.933 Kbps | 45310 | 226   | 23 | 59 | 18 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan0-1.0.12-A  | 19.839 Kbps | 3.981 Mbps  | 226   | 45057 | 29 | 53 | 0  | 0     | 0 | 0 | 207 |
| cv_udp-3.2-3.wlan0-1.0.12-B  | 3.996 Mbps  | 19.987 Kbps | 44850 | 224   | 24 | 53 | 31 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan5-1.0.13-A  | 19.933 Kbps | 3.984 Mbps  | 226   | 45085 | 27 | 54 | 0  | 0     | 0 | 0 | 179 |
| cv_udp-3.2-3.wlan5-1.0.13-B  | 4.003 Mbps  | 19.9 Kbps   | 45356 | 226   | 27 | 54 | 30 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan10-1.0.14-A | 19.9 Kbps   | 3.976 Mbps  | 226   | 45006 | 30 | 63 | 0  | 0.367 | 0 | 0 | 304 |
| cv_udp-3.2-3.wlan10-1.0.14-B | 4 Mbps      | 19.894 Kbps | 45172 | 225   | 33 | 63 | 29 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan15-1.0.15-A | 19.806 Kbps | 3.971 Mbps  | 226   | 44963 | 31 | 52 | 0  | 0     | 0 | 0 | 347 |
| cv_udp-3.2-3.wlan15-1.0.15-B | 4 Mbps      | 19.95 Kbps  | 44850 | 224   | 21 | 52 | 11 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan1-1.0.16-A  | 19.96 Kbps  | 3.953 Mbps  | 227   | 44786 | 31 | 55 | 0  | 0.855 | 0 | 0 | 570 |
| cv_udp-3.2-3.wlan1-1.0.16-B  | 4 Mbps      | 19.894 Kbps | 45172 | 225   | 24 | 55 | 24 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan6-1.0.17-A  | 19.994 Kbps | 3.981 Mbps  | 226   | 45026 | 26 | 55 | 0  | 0     | 0 | 0 | 238 |
| cv_udp-3.2-3.wlan6-1.0.17-B  | 3.998 Mbps  | 19.994 Kbps | 45264 | 226   | 29 | 55 | 40 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan11-1.0.18-A | 19.96 Kbps  | 3.955 Mbps  | 226   | 44751 | 38 | 62 | 0  | 1.133 | 0 | 0 | 559 |
| cv_udp-3.2-3.wlan11-1.0.18-B | 3.998 Mbps  | 19.994 Kbps | 45264 | 226   | 24 | 62 | 21 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan16-1.0.19-A | 20.054 Kbps | 3.974 Mbps  | 227   | 44976 | 29 | 57 | 0  | 0     | 0 | 0 | 334 |
| cv_udp-3.2-3.wlan16-1.0.19-B | 3.998 Mbps  | 19.917 Kbps | 44850 | 224   | 28 | 57 | 33 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan2-1.0.20-A  | 19.927 Kbps | 3.974 Mbps  | 223   | 44341 | 31 | 60 | 0  | 0     | 0 | 0 | 279 |
| cv_udp-3.2-3.wlan2-1.0.20-B  | 4.002 Mbps  | 19.917 Kbps | 44850 | 223   | 29 | 60 | 48 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan7-1.0.21-A  | 19.927 Kbps | 3.988 Mbps  | 223   | 44408 | 32 | 55 | 0  | 0.164 | 0 | 0 | 212 |
| cv_udp-3.2-3.wlan7-1.0.21-B  | 4.003 Mbps  | 19.9 Kbps   | 45218 | 225   | 23 | 55 | 32 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan12-1.0.22-A | 19.894 Kbps | 3.972 Mbps  | 223   | 44356 | 27 | 53 | 0  | 0.278 | 0 | 0 | 310 |
| cv_udp-3.2-3.wlan12-1.0.22-B | 4 Mbps      | 19.96 Kbps  | 45264 | 226   | 26 | 53 | 34 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan17-1.0.23-A | 19.987 Kbps | 3.969 Mbps  | 223   | 44279 | 32 | 61 | 0  | 0     | 0 | 0 | 387 |
| cv_udp-3.2-3.wlan17-1.0.23-B | 4 Mbps      | 19.96 Kbps  | 44896 | 224   | 29 | 61 | 22 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan3-1.0.24-A  | 19.95 Kbps  | 3.946 Mbps  | 223   | 44074 | 24 | 48 | 0  | 0.801 | 0 | 0 | 592 |
| cv_udp-3.2-3.wlan3-1.0.24-B  | 4 Mbps      | 19.96 Kbps  | 45218 | 226   | 24 | 48 | 35 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan8-1.0.25-A  | 19.917 Kbps | 3.983 Mbps  | 223   | 44545 | 28 | 59 | 0  | 0     | 0 | 0 | 167 |
| cv_udp-3.2-3.wlan8-1.0.25-B  | 4 Mbps      | 19.773 Kbps | 45218 | 225   | 31 | 59 | 32 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan13-1.0.26-A | 19.917 Kbps | 3.933 Mbps  | 223   | 43975 | 27 | 49 | 0  | 0.002 | 0 | 0 | 737 |
| cv_udp-3.2-3.wlan13-1.0.26-B | 3.998 Mbps  | 19.917 Kbps | 44712 | 223   | 22 | 49 | 43 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan18-1.0.27-A | 19.9 Kbps   | 3.956 Mbps  | 223   | 44305 | 29 | 57 | 0  | 0.910 | 0 | 0 | 451 |
| cv_udp-3.2-3.wlan18-1.0.27-B | 4.002 Mbps  | 19.917 Kbps | 44712 | 223   | 28 | 57 | 19 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan4-1.0.28-A  | 19.867 Kbps | 3.938 Mbps  | 223   | 44172 | 34 | 64 | 0  | 0.381 | 0 | 0 | 678 |
| cv_udp-3.2-3.wlan4-1.0.28-B  | 4 Mbps      | 19.866 Kbps | 45172 | 225   | 30 | 64 | 28 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan9-1.0.29-A  | 19.867 Kbps | 3.982 Mbps  | 223   | 44483 | 43 | 68 | 0  | 0     | 0 | 0 | 257 |
| cv_udp-3.2-3.wlan9-1.0.29-B  | 4 Mbps      | 19.866 Kbps | 45126 | 225   | 25 | 68 | 20 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan14-1.0.30-A | 19.927 Kbps | 3.961 Mbps  | 224   | 44408 | 27 | 52 | 0  | 0.578 | 0 | 0 | 396 |
| cv_udp-3.2-3.wlan14-1.0.30-B | 4.002 Mbps  | 19.917 Kbps | 44666 | 223   | 25 | 52 | 22 | 0     | 0 | 0 | 0   |
| cv_udp-3.2-3.wlan19-1.0.31-A | 19.833 Kbps | 3.937 Mbps  | 223   | 44082 | 22 | 51 | 0  | 0.071 | 0 | 0 | 722 |
| cv_udp-3.2-3.wlan19-1.0.31-B | 3.998 Mbps  | 19.833 Kbps | 44804 | 223   | 29 | 51 | 18 | 0     | 0 | 0 | 0   |

# Trigger frame Bandwidth Report: BE 6Ghz OFDMA Enabled

Download: Last few frames.

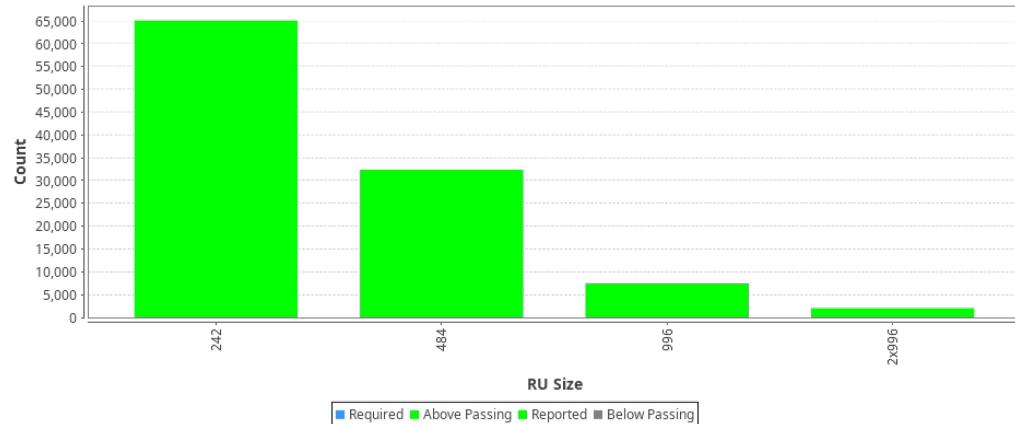
Each row shows the reported bandwidth allocation. Each cell in the row indicates the AID (station identifier) and its respective bandwidth. Duplicated (same bandwidth allocation) sequences of frames are skipped, with only the last one being reported.

BSRP frames are currently skipped.

| Frame | MU-MIMO SS | Dups | Type   | 0-8       | 9-17      | 18-26     | 27-36     | 37-45     | 46-54     | 55-63     | 64-73     | 74-82     | 83-91     | 92-100   | 101-110   | 111-119   | 120-128   | 129-137   | 138-147  |
|-------|------------|------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|-----------|-----------|----------|
| 87711 | 1          | 1    | MU-BAR | 12<br>242 | 31<br>242 | 11<br>242 | 23<br>242 | 29<br>242 | 13<br>242 | 22<br>242 | 14<br>242 | 16 484    | 8 484     | 3 484    | 27<br>242 | 26<br>242 |           |           |          |
| 87716 | 1-2        | 0    | Basic  | 3 4x996   |           |           |           |           |           |           |           |           |           |          |           |           |           |           |          |
| 87728 | 1          | 0    | MU-BAR | 31<br>242 | 11<br>242 | 23<br>242 | 16<br>242 | 2<br>242  | 33<br>242 | 17<br>242 | 7<br>242  | 21 484    | 18 484    | 10 484   | 26<br>242 | 12<br>242 |           |           |          |
| 87734 | 1-2        | 0    | Basic  | 10 4x996  |           |           |           |           |           |           |           |           |           |          |           |           |           |           |          |
| 87742 | 1          | 0    | MU-BAR | 11<br>242 | 23<br>242 | 2<br>242  | 33<br>242 | 17<br>242 | 7<br>242  | 21<br>242 | 18<br>242 | 10 484    | 6 484     | 4 484    | 12<br>242 | 31<br>242 |           |           |          |
| 87743 | 1-2        | 0    | Basic  | 10 4x996  |           |           |           |           |           |           |           |           |           |          |           |           |           |           |          |
| 87748 | 1-2        | 0    | Basic  | 23 4x996  |           |           |           |           |           |           |           |           |           |          |           |           |           |           |          |
| 87756 | 1          | 1    | MU-BAR | 11<br>242 | 13<br>242 | 28<br>242 | 25<br>242 | 5<br>242  | 8<br>242  | 3<br>242  | 2<br>242  | 24 484    | 33 484    | 7 484    | 27<br>242 | 9<br>242  |           |           |          |
| 87764 | 1-2        | 0    | Basic  | 7 4x996   |           |           |           |           |           |           |           |           |           |          |           |           |           |           |          |
| 87771 | 1          | 0    | MU-BAR | 33 484    |           | 30 484    |           | 6 484     |           | 4 484     |           | 5 484     |           | 13 484   |           | 25 484    |           | 2 484     |          |
| 87783 | 1-2        | 0    | Basic  | 7 4x996   |           |           |           |           |           |           |           |           |           |          |           |           |           |           |          |
| 87792 | 1          | 0    | MU-BAR | 32 484    |           | 20 484    |           | 15 484    |           | 13 484    |           | 25 996    |           | 2 996    |           |           |           |           |          |
| 87793 | 1          | 0    | MU-BAR | 28<br>242 | 9<br>242  | 17<br>242 | 21<br>242 | 18<br>242 | 13<br>242 | 25<br>242 | 2<br>242  | 26 484    | 12 484    | 31 484   | 27<br>242 | 11<br>242 |           |           |          |
| 87800 | 1          | 0    | MU-BAR | 12<br>242 | 29<br>242 | 23<br>242 | 31<br>242 | 22<br>242 | 14<br>242 | 16<br>242 | 10<br>242 | 11<br>242 | 28<br>242 | 9<br>242 | 17<br>242 | 21<br>242 | 18<br>242 | 13<br>242 | 2<br>242 |
| 87801 | 1          | 0    | MU-BAR | 12<br>242 | 29<br>242 | 23<br>242 | 31<br>242 | 22<br>242 | 14<br>242 | 16<br>242 | 10<br>242 | 28<br>242 | 11<br>242 | 9<br>242 | 17<br>242 | 21<br>242 | 18<br>242 | 13<br>242 | 2<br>242 |
| 87805 | 1          | 0    | MU-BAR | 17 484    |           | 21 484    |           | 18 484    |           | 2 484     |           | 14 996    |           | 10 996   |           |           |           |           |          |
| 87814 | 1          | 0    | MU-BAR | 17 996    |           |           |           | 21 996    |           |           |           | 2 2x996   |           |          |           |           |           |           |          |
| 87821 | 1          | 0    | MU-BAR | 8<br>242  | 3<br>242  | 24<br>242 | 7<br>242  | 33<br>242 | 32<br>242 | 20<br>242 | 30<br>242 | 6 484     | 4 484     | 17 484   | 2 484     |           |           |           |          |
| 87822 | 1-2        | 0    | Basic  | 17 4x996  |           |           |           |           |           |           |           |           |           |          |           |           |           |           |          |

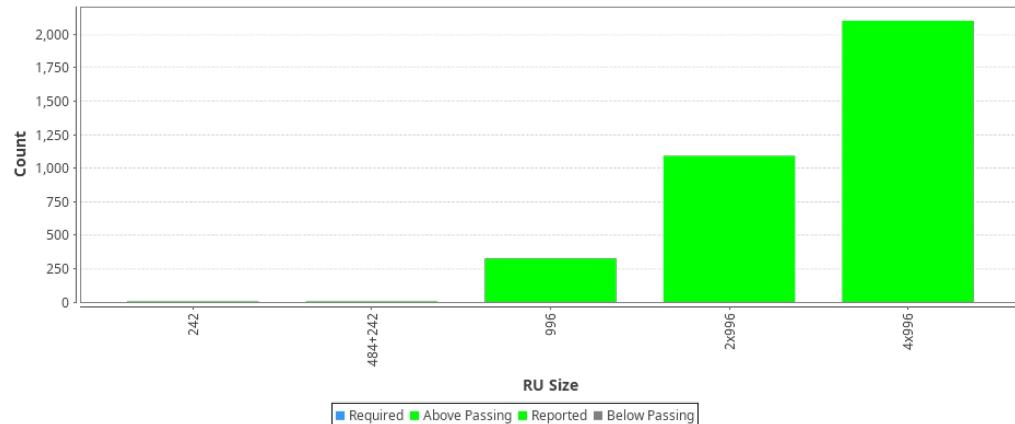
CSV Data for 6.2.9 OFDMA Test (31-STA) BE 6Ghz OFDMA Enabled Download Trigger frame RU Allocation Counts for type:  
[MU-BAR](#)

**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Enabled Download**  
**Trigger frame RU Allocation Counts for type: MU-BAR**



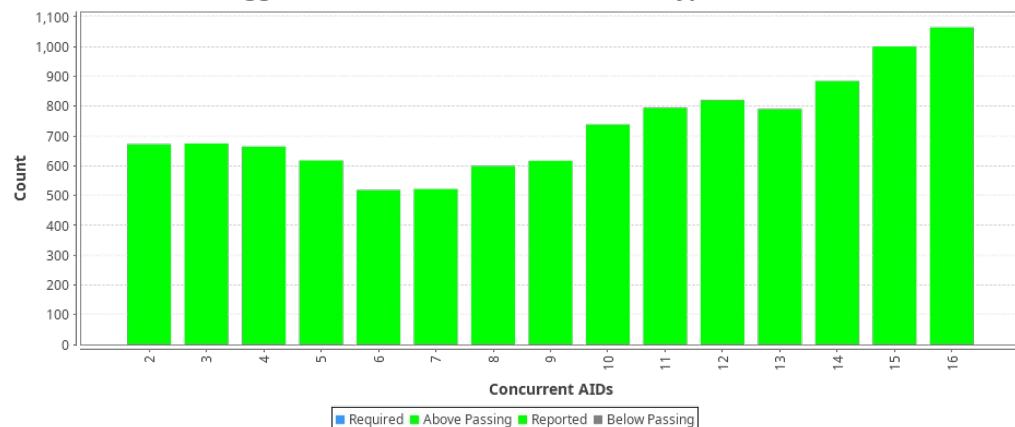
CSV Data for 6.2.9 OFDMA Test (31-STA) BE 6Ghz OFDMA Enabled Download Trigger frame RU Allocation Counts for type:  
[Basic](#)

**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Enabled Download**  
**Trigger frame RU Allocation Counts for type: Basic**



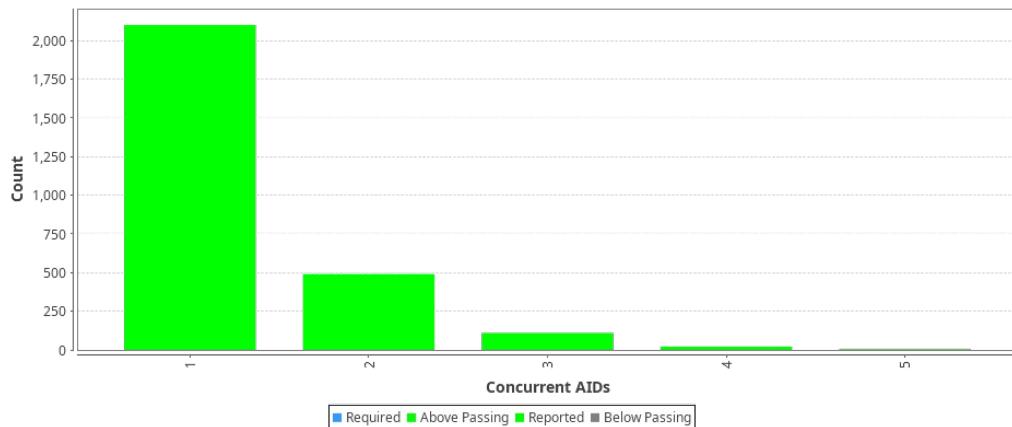
CSV Data for 6.2.9 OFDMA Test (31-STA) BE 6Ghz OFDMA Enabled Download Trigger frame Concurrent AID Counts for type:  
[MU-BAR](#)

**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Enabled Download**  
**Trigger frame Concurrent AID Counts for type: MU-BAR**



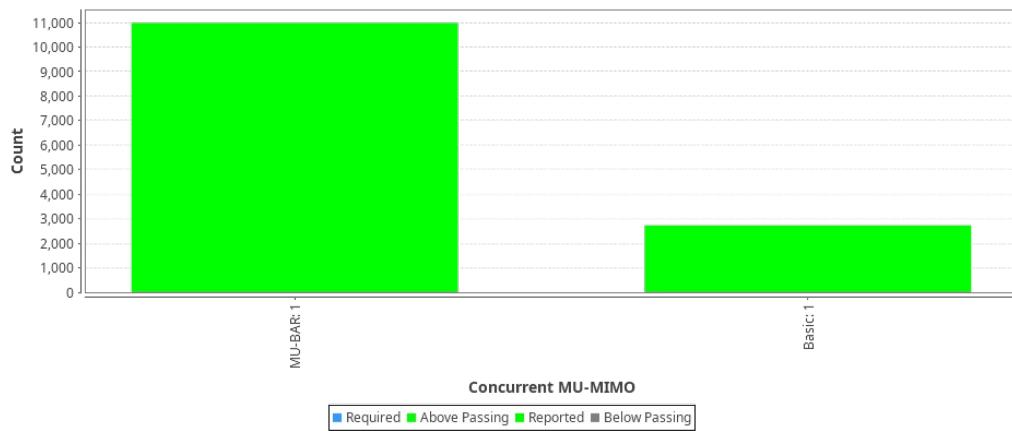
CSV Data for 6.2.9 OFDMA Test (31-STA) BE 6Ghz OFDMA Enabled Download Trigger frame Concurrent AID Counts for type:  
[Basic](#)

**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Enabled Download**  
**Trigger frame Concurrent AID Counts for type: Basic**



[CSV Data for 6.2.9 OFDMA Test \(31-STA\) BE 6Ghz OFDMA Enabled Download Trigger frame Concurrent MU-MIMO Counts](#)

**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Enabled Download**  
**Trigger frame Concurrent MU-MIMO Counts**

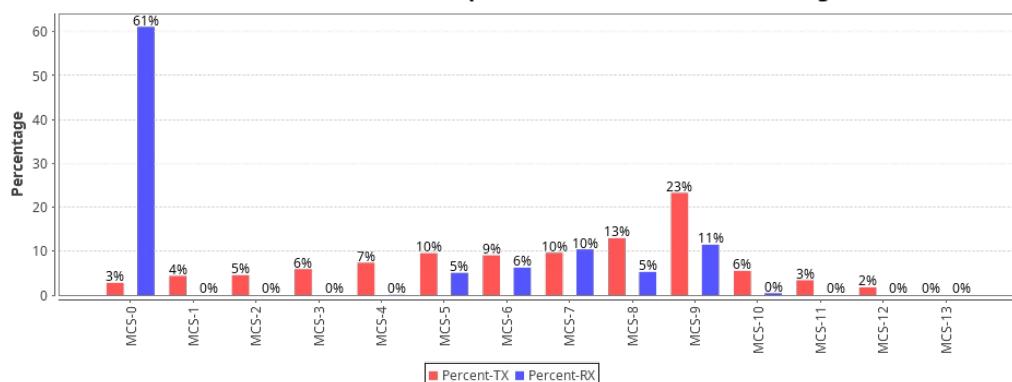


[Full OFDMA Trigger Packet Capture HTML report: BE 6Ghz OFDMA Enabled Download](#)

Histogram for WiFi MCS for packets sent and received by the wifi radios in the test.

[CSV Data for BE 6Ghz OFDMA Disabled Upload WiFi Packet MCS Percentages](#)

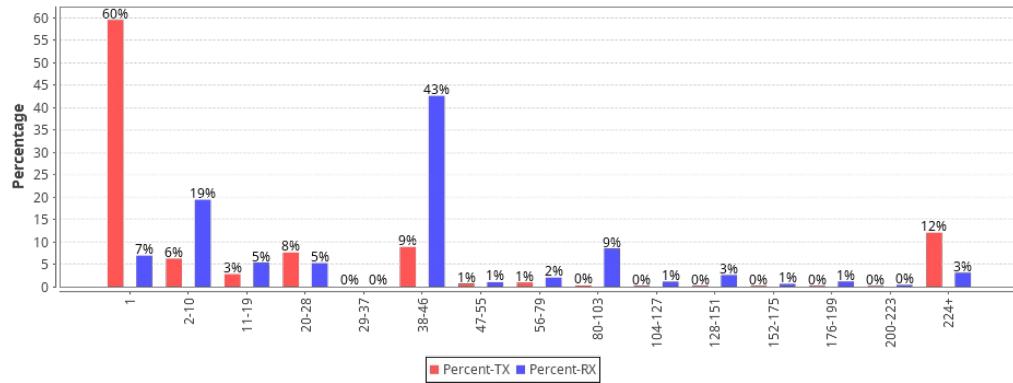
**BE 6Ghz OFDMA Disabled Upload WiFi Packet MCS Percentages**



Block-Ack allows a series of frames to be sent in one transmit opportunity. This series of packets is known as a series of AMPDU frames. Having more frames in each AMPDU series normally improves throughput, but may increase latency or decrease airtime fairness. This histogram provides some visibility into the AMPDU chain length used in this test.

[CSV Data for BE 6Ghz OFDMA Disabled Upload WiFi Packet AMPDU Length Percentages](#)

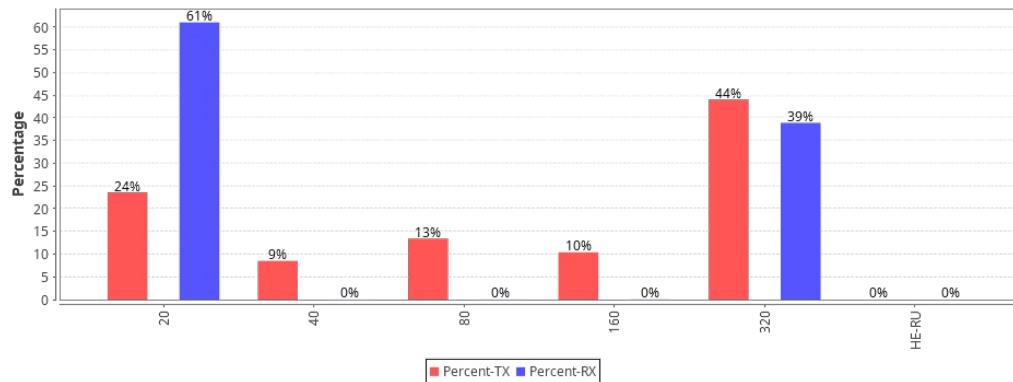
### BE 6Ghz OFDMA Disabled Upload WiFi Packet AMPDU Length Percentages



Histogram for WiFi bandwidths for packets sent and received by the wifi radios in the test.

[CSV Data for BE 6Ghz OFDMA Disabled Upload WiFi Bandwidth Percentages](#)

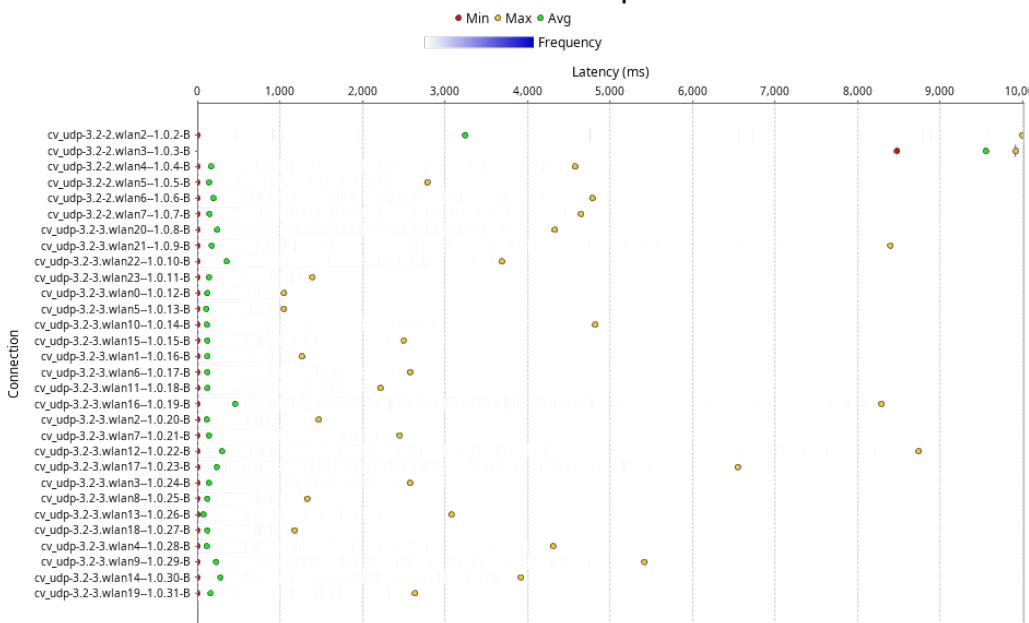
### BE 6Ghz OFDMA Disabled Upload WiFi Bandwidth Percentages



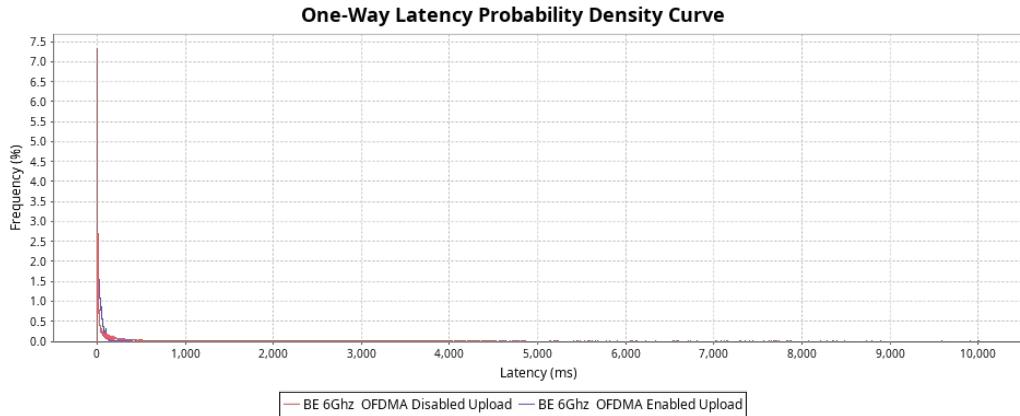
Distribution of latency values for Upload UDP connections.

Latency readings are clamped to a [-1, 10] second range.

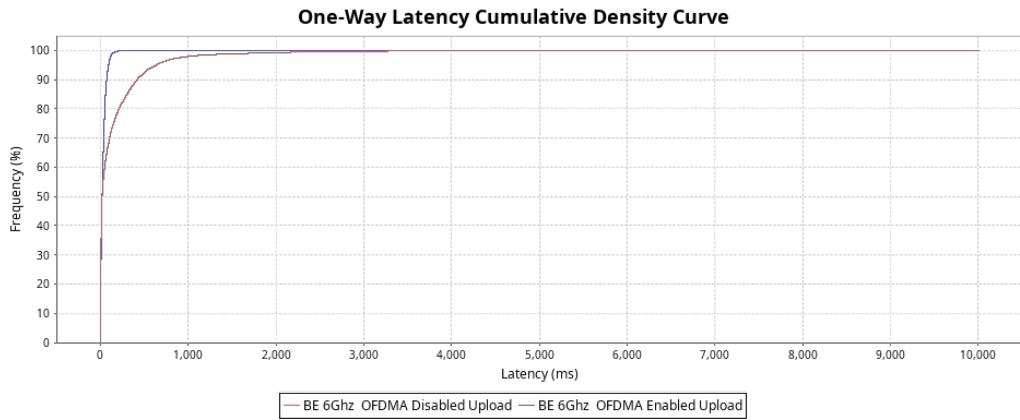
### One-Way Latency, per Connection BE 6Ghz OFDMA Disabled Upload



[CSV Data for One-Way Latency Probability Density Curve](#)



[CSV Data for One-Way Latency Cumulative Density Curve](#)



[Collected CSV Data: CSV: 6.2.9 OFDMA Test \(31-STA\) BE 6Ghz OFDMA Disabled Upload](#)

OFDMA: Snapshot BE 6Ghz OFDMA Disabled Upload while running traffic.

| Port          | Tx-Bps 1m    | Rx-Bps 1m   | Tx-Fail % | Tx Link-Rate | Rx Link-Rate | Mode               | Channel | Last CX-Time (ms) | RSSI (dBm) | AP       | IP            | MAC               |
|---------------|--------------|-------------|-----------|--------------|--------------|--------------------|---------|-------------------|------------|----------|---------------|-------------------|
| 1.2.20 wlan0  | 416.223 Kbps | 12.053 Kbps | 52.166    | 17.2 Mbps    | 7.3 Mbps     | 802.11a-BE 320 2x2 | 227     | 148               | -61        | [hidden] | 192.168.1.197 | e8:bf:b8:5a:12:f2 |
| 1.2.22 wlan2  | 55.949 Kbps  | 21.192 Kbps | 81.692    | 68.8 Mbps    | 1.297 Gbps   | 802.11a-BE 320 2x2 | 227     | 123               | -53        | [hidden] | 192.168.1.187 | e8:bf:b8:5a:12:e8 |
| 1.2.23 wlan3  | 21.554 Kbps  | 21.283 Kbps | 77.176    | 6 Mbps       | 2.594 Gbps   | 802.11a-BE 320 2x2 | 227     | 136               | -52        | [hidden] | 192.168.1.242 | e8:bf:b8:5a:17:2a |
| 1.2.24 wlan4  | 1.256 Mbps   | 21.185 Kbps | 36.967    | 51.6 Mbps    | 3.843 Gbps   | 802.11a-BE 320 2x2 | 227     | 141               | -45        | [hidden] | 192.168.1.193 | e8:bf:b8:59:4e:67 |
| 1.2.25 wlan5  | 1.494 Mbps   | 21.333 Kbps | 32.229    | 864.8 Mbps   | 3.843 Gbps   | 802.11a-BE 320 2x2 | 227     | 4,027             | -45        | [hidden] | 192.168.1.231 | e8:bf:b8:5a:10:e0 |
| 1.2.26 wlan6  | 752.94 Kbps  | 18.674 Kbps | 41.693    | 216.1 Mbps   | 3.843 Gbps   | 802.11a-BE 320 2x2 | 227     | 242               | -45        | [hidden] | 192.168.1.151 | e8:bf:b8:5a:10:90 |
| 1.2.27 wlan7  | 787.066 Kbps | 15.318 Kbps | 39.611    | 288.2 Mbps   | 2.883 Gbps   | 802.11a-BE 320 2x2 | 227     | 193               | -44        | [hidden] | 192.168.1.103 | e8:bf:b8:5a:0f:91 |
| 1.3.28 wlan20 | 919.964 Kbps | 16.166 Kbps | 31.866    | 3843.1 Mbps  | 3.459 Gbps   | 802.11a-BE 320 2x2 | 227     | 530               | -49        | [hidden] | 192.168.1.112 | e8:bf:b8:5a:79:3b |
| 1.3.29 wlan21 | 1.038 Mbps   | 16.201 Kbps | 25.139    | 3843.1 Mbps  | 3.459 Gbps   | 802.11a-BE 320 2x2 | 227     | 138               | -49        | [hidden] | 192.168.1.236 | e8:bf:b8:5a:79:22 |
| 1.3.30 wlan22 | 733.712 Kbps | 16.121 Kbps | 37.163    | 288.2 Mbps   | 2.306 Gbps   | 802.11a-BE 320 2x2 | 227     | 358               | -49        | [hidden] | 192.168.1.241 | e8:bf:b8:5a:79:27 |
| 1.3.31 wlan23 | 1.414 Mbps   | 15.95 Kbps  | 25.507    | 1921.5 Mbps  | 3.843 Gbps   | 802.11a-BE 320 2x2 | 227     | 235               | -51        | [hidden] | 192.168.1.164 | e8:bf:b8:5a:11:6c |

|                  |              |             |        |             |            |                           |     |       |     |          |               |                   |
|------------------|--------------|-------------|--------|-------------|------------|---------------------------|-----|-------|-----|----------|---------------|-------------------|
| 1.3.32<br>wlan0  | 1.417 Mbps   | 16.118 Kbps | 27.251 | 3843.1 Mbps | 3.459 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 202   | -48 | [hidden] | 192.168.1.138 | 10:91:d1:96:26:7a |
| 1.3.33<br>wlan5  | 1.556 Mbps   | 16.125 Kbps | 27.328 | 2401.9 Mbps | 3.459 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 1,080 | -50 | [hidden] | 192.168.1.108 | 10:91:d1:96:76:48 |
| 1.3.34<br>wlan10 | 913.201 Kbps | 16.131 Kbps | 32.658 | 2401.9 Mbps | 3.459 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 817   | -51 | [hidden] | 192.168.1.237 | 10:91:d1:53:4d:5f |
| 1.3.35<br>wlan15 | 1.484 Mbps   | 15.624 Kbps | 25.13  | 3459.3 Mbps | 2.883 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 150   | -47 | [hidden] | 192.168.1.140 | 10:91:d1:53:15:bf |
| 1.3.36<br>wlan1  | 1.373 Mbps   | 16.127 Kbps | 24.663 | 3843.1 Mbps | 3.459 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 361   | -50 | [hidden] | 192.168.1.173 | 10:91:d1:96:85:98 |
| 1.3.37<br>wlan6  | 1.334 Mbps   | 16.123 Kbps | 30.289 | 2594.2 Mbps | 2.883 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 355   | -48 | [hidden] | 192.168.1.124 | 10:91:d1:96:87:05 |
| 1.3.38<br>wlan11 | 1.372 Mbps   | 16.172 Kbps | 25.356 | 2161.3 Mbps | 3.459 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 153   | -50 | [hidden] | 192.168.1.176 | e8:bf:b8:5a:2e:c7 |
| 1.3.39<br>wlan16 | 800.957 Kbps | 16.186 Kbps | 30.011 | 154.8 Mbps  | 309.7 Mbps | 802.11a-<br>BE 320<br>2x2 | 227 | 153   | -50 | [hidden] | 192.168.1.132 | e8:bf:b8:5a:12:b1 |
| 1.3.40<br>wlan2  | 1.454 Mbps   | 16.206 Kbps | 26.772 | 3843.1 Mbps | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 555   | -50 | [hidden] | 192.168.1.168 | 10:91:d1:96:85:93 |
| 1.3.41<br>wlan7  | 1.299 Mbps   | 16.148 Kbps | 28.505 | 2161.3 Mbps | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 593   | -51 | [hidden] | 192.168.1.135 | 10:91:d1:96:89:44 |
| 1.3.42<br>wlan12 | 905.612 Kbps | 15.82 Kbps  | 33.552 | 68.8 Mbps   | 3.459 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 322   | -48 | [hidden] | 192.168.1.128 | 10:91:d1:53:27:30 |
| 1.3.43<br>wlan17 | 795.496 Kbps | 16.14 Kbps  | 30.456 | 9 Mbps      | 2.883 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 500   | -50 | [hidden] | 192.168.1.154 | e8:bf:b8:5a:11:62 |
| 1.3.44<br>wlan3  | 1.215 Mbps   | 15.865 Kbps | 29.331 | 1921.5 Mbps | 2.594 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 139   | -49 | [hidden] | 192.168.1.194 | a0:b3:39:64:82:ff |
| 1.3.45<br>wlan8  | 1.512 Mbps   | 16.196 Kbps | 29.496 | 1921.5 Mbps | 2.883 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 141   | -49 | [hidden] | 192.168.1.133 | 10:91:d1:53:27:35 |
| 1.3.46<br>wlan13 | 1.788 Mbps   | 15.995 Kbps | 27.058 | 3843.1 Mbps | 2.883 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 141   | -47 | [hidden] | 192.168.1.113 | 10:91:d1:53:16:73 |
| 1.3.47<br>wlan18 | 1.308 Mbps   | 15.704 Kbps | 25.017 | 2161.3 Mbps | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 159   | -51 | [hidden] | 192.168.1.110 | e8:bf:b8:5a:18:a1 |
| 1.3.48<br>wlan4  | 1.394 Mbps   | 16.074 Kbps | 25.876 | 1200.9 Mbps | 3.843 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 128   | -50 | [hidden] | 192.168.1.163 | a0:b3:39:64:82:e1 |
| 1.3.49<br>wlan9  | 873.438 Kbps | 16.088 Kbps | 39.192 | 286.7 Mbps  | 4.323 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 244   | -51 | [hidden] | 192.168.1.186 | 10:91:d1:53:28:39 |
| 1.3.50<br>wlan14 | 861.892 Kbps | 16.185 Kbps | 28.247 | 344.1 Mbps  | 2.883 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 627   | -48 | [hidden] | 192.168.1.223 | e8:bf:b8:5a:0f:73 |
| 1.3.51<br>wlan19 | 907.482 Kbps | 16.189 Kbps | 35.034 | 432.3 Mbps  | 3.459 Gbps | 802.11a-<br>BE 320<br>2x2 | 227 | 429   | -50 | [hidden] | 192.168.1.123 | e8:bf:b8:5a:78:78 |

| Port       | Tx-Bps 1m    | Rx-Bps 1m   | Link-Rate | IP            | MAC               |
|------------|--------------|-------------|-----------|---------------|-------------------|
| 1.3.2 eth2 | 659.317 Kbps | 44.105 Mbps | 10 Gbps   | 192.168.1.183 | 9c:69:b4:61:e5:b4 |

| Endpoint                   | Tx-Bps 1m    | Rx-Bps 1m   | TxPkts | RxPkts | RX Lat (ms) | RT Lat (ms) | Jitter | Rx Pkt Loss % | Rx OOO % | Rx DUP | Rx Seq Drop |
|----------------------------|--------------|-------------|--------|--------|-------------|-------------|--------|---------------|----------|--------|-------------|
| cv_tcp-3.2-2.wlan0-1.0.0-A | 0 bps        | 0 bps       | 0      | 0      | 0           | 0           | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0-1.0.0-B | 0 bps        | 2.326 Kbps  | 0      | 0      | 0           | 0           | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0-1.0.1-A | 0 bps        | 0 bps       | 0      | 0      | 0           | 0           | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0-1.0.1-B | 0 bps        | 1.55 Kbps   | 0      | 0      | 0           | 0           | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0-1.0.2-A | 0 bps        | 0 bps       | 5      | 0      | 0           | 0           | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0-1.0.2-B | 0 bps        | 775 bps     | 0      | 0      | 0           | 0           | 0      | 100.000       | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan2-1.0.2-A | 53.506 Kbps  | 20.029 Kbps | 569    | 224    | 208         | 926         | 49     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan2-1.0.2-B | 19.961 Kbps  | 34.486 Kbps | 227    | 368    | 718         | 926         | 2      | 36.028        | 0        | 4      | 237         |
| cv_udp-3.2-2.wlan3-1.0.3-A | 19.995 Kbps  | 20.183 Kbps | 230    | 227    | 179         | 11,291      | 35     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan3-1.0.3-B | 19.912 Kbps  | 560 bps     | 227    | 7      | 11,112      | 11,291      | 617    | 96.957        | 0        | 0      | 296         |
| cv_udp-3.2-2.wlan4-1.0.4-A | 1.172 Mbps   | 20.183 Kbps | 12896  | 225    | 115         | 266         | 26     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan4-1.0.4-B | 19.995 Kbps  | 1.126 Mbps  | 225    | 12394  | 151         | 266         | 11     | 2.714         | 0        | 78     | 615         |
| cv_udp-3.2-2.wlan5-1.0.5-A | 1.385 Mbps   | 20.183 Kbps | 15624  | 224    | 114         | 130         | 18     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan5-1.0.5-B | 20.054 Kbps  | 1.376 Mbps  | 227    | 15732  | 16          | 130         | 0      | 0             | 0        | 79     | 355         |
| cv_udp-3.2-2.wlan6-1.0.6-A | 997.375 Kbps | 19.4 Kbps   | 10995  | 220    | 268         | 398         | 49     | 1.322         | 0        | 0      | 4           |

|                              |              |              |       |       |       |       |    |       |   |    |     |
|------------------------------|--------------|--------------|-------|-------|-------|-------|----|-------|---|----|-----|
| cv_udp-3.2-2.wlan6-1.0.6-B   | 19.851 Kbps  | 961.316 Kbps | 227   | 10600 | 130   | 398   | 1  | 4.175 | 0 | 64 | 554 |
| cv_udp-3.2-2.wlan7-1.0.7-A   | 1.227 Mbps   | 19.868 Kbps  | 13835 | 224   | 198   | 439   | 46 | 0.444 | 0 | 0  | 1   |
| cv_udp-3.2-2.wlan7-1.0.7-B   | 19.995 Kbps  | 1.185 Mbps   | 225   | 13255 | 241   | 439   | 13 | 4.106 | 0 | 57 | 599 |
| cv_udp-3.2-3.wlan20-1.0.8-A  | 953.883 Kbps | 19.895 Kbps  | 10304 | 225   | 153   | 163   | 41 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan20-1.0.8-B  | 19.902 Kbps  | 947.321 Kbps | 224   | 10149 | 10    | 163   | 0  | 0     | 0 | 45 | 159 |
| cv_udp-3.2-3.wlan21-1.0.9-A  | 1.298 Mbps   | 19.895 Kbps  | 13909 | 225   | 143   | 253   | 64 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan21-1.0.9-B  | 19.945 Kbps  | 1.292 Mbps   | 227   | 13831 | 110   | 253   | 0  | 1.014 | 0 | 63 | 241 |
| cv_udp-3.2-3.wlan22-1.0.10-A | 648.065 Kbps | 20.176 Kbps  | 7030  | 225   | 123   | 286   | 22 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan22-1.0.10-B | 19.851 Kbps  | 642.563 Kbps | 226   | 6945  | 163   | 286   | 2  | 1.935 | 0 | 51 | 220 |
| cv_udp-3.2-3.wlan23-1.0.11-A | 1.5 Mbps     | 19.988 Kbps  | 17020 | 225   | 159   | 566   | 21 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan23-1.0.11-B | 19.808 Kbps  | 1.501 Mbps   | 224   | 16968 | 407   | 566   | 35 | 0.223 | 0 | 49 | 96  |
| cv_udp-3.2-3.wlan0-1.0.12-A  | 1.749 Mbps   | 19.995 Kbps  | 19796 | 227   | 146   | 154   | 43 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan0-1.0.12-B  | 19.961 Kbps  | 1.739 Mbps   | 226   | 19736 | 8     | 154   | 0  | 0.525 | 0 | 44 | 113 |
| cv_udp-3.2-3.wlan5-1.0.13-A  | 1.779 Mbps   | 19.995 Kbps  | 20332 | 227   | 139   | 245   | 17 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan5-1.0.13-B  | 20.005 Kbps  | 1.771 Mbps   | 227   | 20278 | 106   | 245   | 0  | 0.477 | 0 | 43 | 183 |
| cv_udp-3.2-3.wlan10-1.0.14-A | 1.714 Mbps   | 20.039 Kbps  | 18693 | 228   | 150   | 227   | 29 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan10-1.0.14-B | 19.902 Kbps  | 1.698 Mbps   | 224   | 18329 | 77    | 227   | 0  | 0.257 | 0 | 52 | 228 |
| cv_udp-3.2-3.wlan15-1.0.15-A | 1.676 Mbps   | 19.945 Kbps  | 19320 | 229   | 123   | 165   | 20 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan15-1.0.15-B | 19.945 Kbps  | 1.659 Mbps   | 226   | 19099 | 42    | 165   | 0  | 1.413 | 0 | 52 | 227 |
| cv_udp-3.2-3.wlan1-1.0.16-A  | 1.671 Mbps   | 20.039 Kbps  | 19044 | 228   | 137   | 196   | 38 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan1-1.0.16-B  | 19.961 Kbps  | 1.654 Mbps   | 226   | 18850 | 59    | 196   | 0  | 0     | 0 | 52 | 246 |
| cv_udp-3.2-3.wlan6-1.0.17-A  | 1.636 Mbps   | 20.039 Kbps  | 17980 | 227   | 124   | 264   | 37 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan6-1.0.17-B  | 20.005 Kbps  | 1.614 Mbps   | 227   | 17776 | 140   | 264   | 3  | 1.429 | 0 | 53 | 235 |
| cv_udp-3.2-3.wlan11-1.0.18-A | 1.617 Mbps   | 20.379 Kbps  | 18273 | 228   | 124   | 129   | 14 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan11-1.0.18-B | 20.123 Kbps  | 1.581 Mbps   | 224   | 17636 | 5     | 129   | 0  | 0.219 | 0 | 47 | 234 |
| cv_udp-3.2-3.wlan16-1.0.19-A | 623.541 Kbps | 20.099 Kbps  | 6732  | 229   | 137   | 149   | 89 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan16-1.0.19-B | 20.029 Kbps  | 579.916 Kbps | 223   | 6219  | 12    | 149   | 0  | 0.535 | 0 | 29 | 210 |
| cv_udp-3.2-3.wlan2-1.0.20-A  | 1.805 Mbps   | 19.895 Kbps  | 20240 | 222   | 145   | 151   | 16 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan2-1.0.20-B  | 19.902 Kbps  | 1.792 Mbps   | 223   | 20135 | 6     | 151   | 0  | 0.731 | 0 | 43 | 148 |
| cv_udp-3.2-3.wlan7-1.0.21-A  | 1.302 Mbps   | 19.895 Kbps  | 15138 | 222   | 231   | 268   | 35 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan7-1.0.21-B  | 19.818 Kbps  | 1.303 Mbps   | 226   | 15315 | 37    | 268   | 0  | 0     | 0 | 62 | 355 |
| cv_udp-3.2-3.wlan12-1.0.22-A | 745.607 Kbps | 19.935 Kbps  | 8142  | 222   | 114   | 124   | 14 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan12-1.0.22-B | 19.935 Kbps  | 735.075 Kbps | 223   | 8009  | 10    | 124   | 0  | 2.334 | 0 | 57 | 236 |
| cv_udp-3.2-3.wlan17-1.0.23-A | 777.014 Kbps | 20.123 Kbps  | 9183  | 222   | 152   | 1,678 | 14 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan17-1.0.23-B | 19.902 Kbps  | 765.949 Kbps | 223   | 9033  | 1,526 | 1,678 | 41 | 1.993 | 0 | 33 | 130 |
| cv_udp-3.2-3.wlan3-1.0.24-A  | 1.419 Mbps   | 19.995 Kbps  | 15716 | 222   | 180   | 354   | 48 | 0     | 0 | 0  | 1   |
| cv_udp-3.2-3.wlan3-1.0.24-B  | 19.945 Kbps  | 1.386 Mbps   | 225   | 15485 | 174   | 354   | 10 | 1.864 | 0 | 62 | 323 |
| cv_udp-3.2-3.wlan8-1.0.25-A  | 1.762 Mbps   | 19.995 Kbps  | 19550 | 225   | 157   | 195   | 45 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan8-1.0.25-B  | 19.901 Kbps  | 1.759 Mbps   | 223   | 19507 | 38    | 195   | 0  | 0.496 | 0 | 54 | 97  |
| cv_udp-3.2-3.wlan13-1.0.26-A | 2.294 Mbps   | 19.962 Kbps  | 25208 | 223   | 141   | 197   | 38 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan13-1.0.26-B | 19.935 Kbps  | 2.293 Mbps   | 223   | 25129 | 56    | 197   | 0  | 0     | 0 | 52 | 131 |
| cv_udp-3.2-3.wlan18-1.0.27-A | 1.625 Mbps   | 19.962 Kbps  | 17940 | 226   | 156   | 165   | 24 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan18-1.0.27-B | 19.902 Kbps  | 1.611 Mbps   | 222   | 17752 | 9     | 165   | 0  | 0     | 0 | 52 | 260 |
| cv_udp-3.2-3.wlan4-1.0.28-A  | 1.775 Mbps   | 20.022 Kbps  | 19015 | 227   | 164   | 190   | 29 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan4-1.0.28-B  | 19.945 Kbps  | 1.781 Mbps   | 225   | 19080 | 26    | 190   | 0  | 0     | 0 | 52 | 273 |
| cv_udp-3.2-3.wlan9-1.0.29-A  | 912.394 Kbps | 19.988 Kbps  | 9936  | 225   | 203   | 215   | 30 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan9-1.0.29-B  | 19.901 Kbps  | 878.963 Kbps | 222   | 9510  | 12    | 215   | 0  | 0     | 0 | 53 | 341 |
| cv_udp-3.2-3.wlan14-1.0.30-A | 801.168 Kbps | 20.123 Kbps  | 8740  | 225   | 154   | 184   | 27 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan14-1.0.30-B | 19.995 Kbps  | 779.561 Kbps | 222   | 8477  | 30    | 184   | 0  | 0     | 0 | 58 | 203 |
| cv_udp-3.2-3.wlan19-1.0.31-A | 1.346 Mbps   | 20.123 Kbps  | 14588 | 223   | 202   | 253   | 42 | 0     | 0 | 0  | 0   |
| cv_udp-3.2-3.wlan19-1.0.31-B | 19.851 Kbps  | 1.309 Mbps   | 224   | 14277 | 51    | 253   | 0  | 2.481 | 0 | 51 | 366 |

## Trigger frame Bandwidth Report: BE 6Ghz OFDMA Disabled

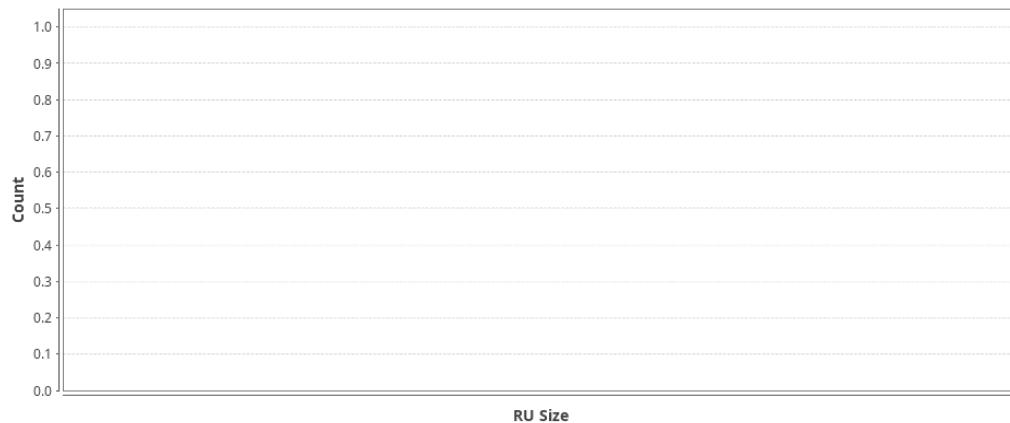
Upload: Last few frames.

Each row shows the reported bandwidth allocation. Each cell in the row indicates the AID (station identifier) and its respective bandwidth. Duplicated (same bandwidth allocation) sequences of frames are skipped, with only the last one being reported.

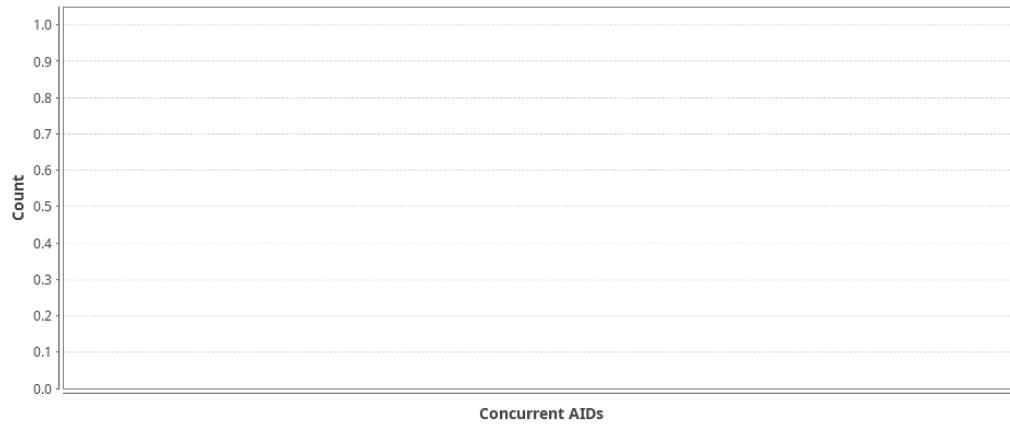
BSRP frames are currently skipped.

| Frame | MU-MIMO SS | Dups | Type | 0-8 | 9-17 | 18-26 | 27-36 | 37-45 | 46-54 | 55-63 | 64-73 | 74-82 | 83-91 | 92-100 | 101-110 | 111-119 | 120-128 | 129-137 | 138-147 |
|-------|------------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|---------|---------|
|-------|------------|------|------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|---------|---------|---------|---------|---------|

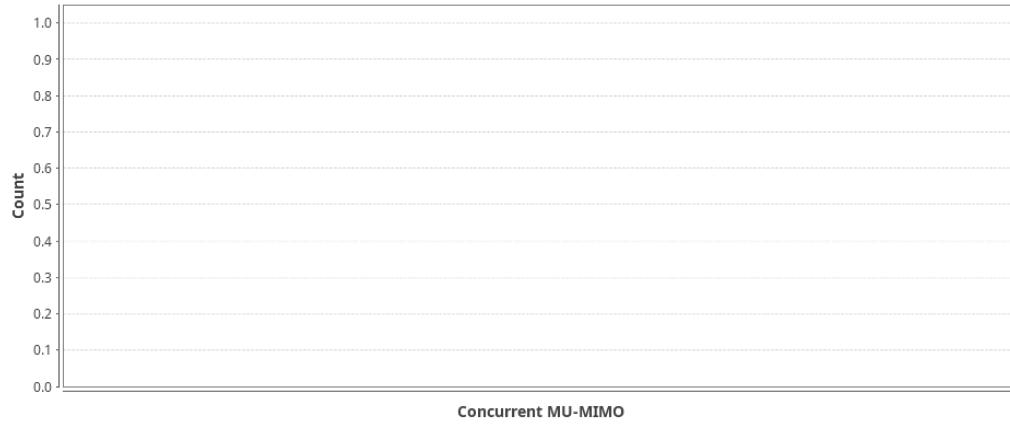
**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Disabled Upload**  
**Trigger frame RU Allocation Counts**



**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Disabled Upload**  
**Trigger frame Concurrent AID Counts**



**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Disabled Upload**  
**Trigger frame Concurrent MU-MIMO Counts**

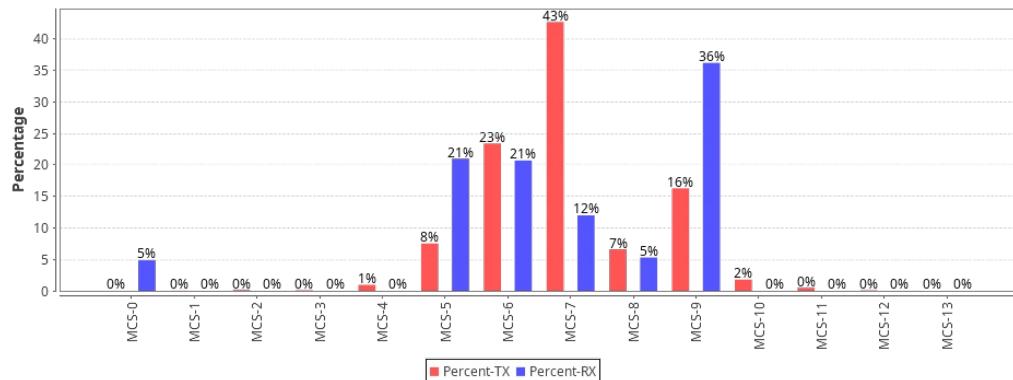


[Full OFDMA Trigger Packet Capture HTML report: BE 6Ghz OFDMA Disabled Upload](#)

Histogram for WiFi MCS for packets sent and received by the wifi radios in the test.

[CSV Data for BE 6Ghz OFDMA Enabled Upload WiFi Packet MCS Percentages](#)

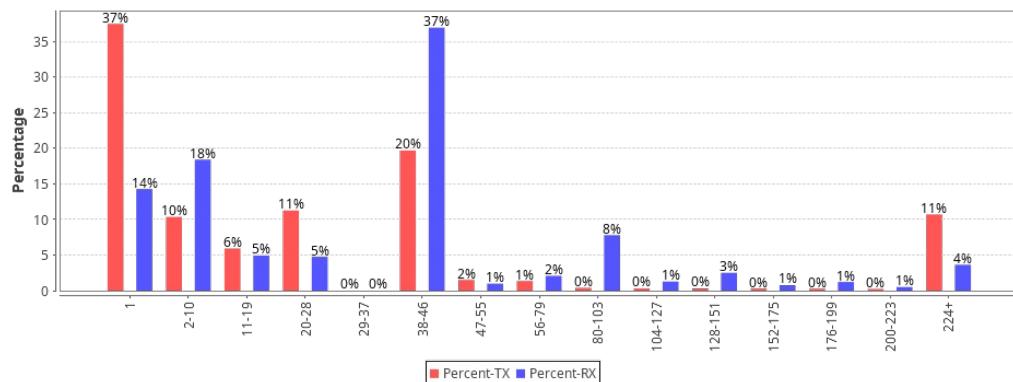
### BE 6Ghz OFDMA Enabled Upload WiFi Packet MCS Percentages



Block-Ack allows a series of frames to be sent in one transmit opportunity. This series of packets is known as a series of AMPDU frames. Having more frames in each AMPDU series normally improves throughput, but may increase latency or decrease airtime fairness. This histogram provides some visibility into the AMPDU chain length used in this test.

### CSV Data for BE 6Ghz OFDMA Enabled Upload WiFi Packet AMPDU Length Percentages

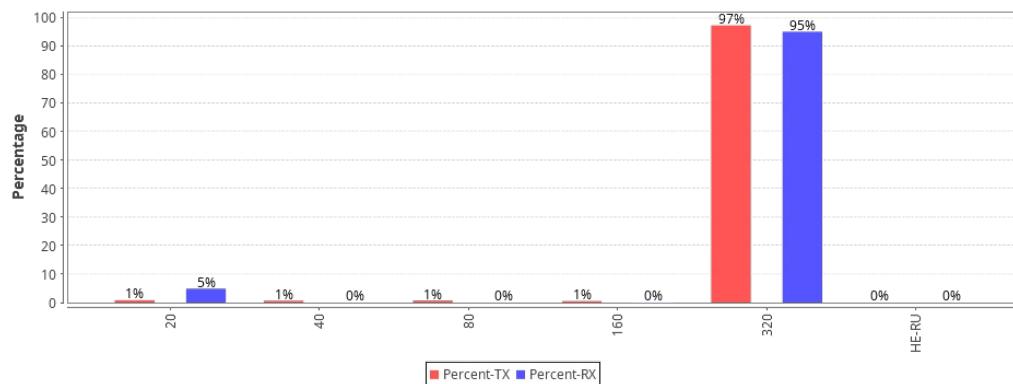
#### BE 6Ghz OFDMA Enabled Upload WiFi Packet AMPDU Length Percentages



Histogram for WiFi bandwidths for packets sent and received by the wifi radios in the test.

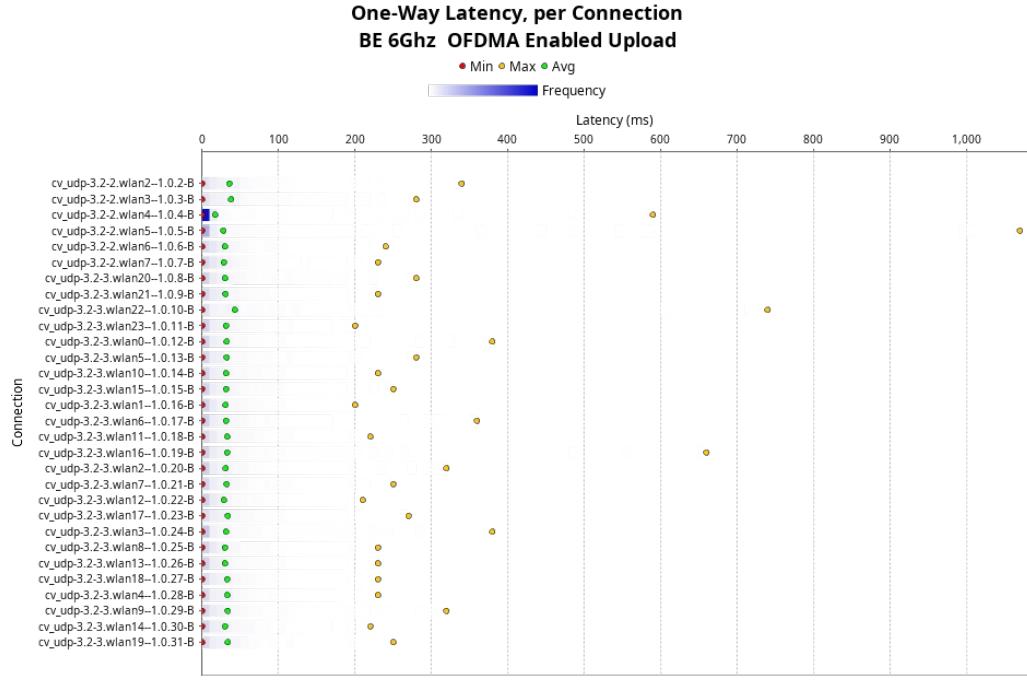
### CSV Data for BE 6Ghz OFDMA Enabled Upload WiFi Bandwidth Percentages

#### BE 6Ghz OFDMA Enabled Upload WiFi Bandwidth Percentages



Distribution of latency values for Upload UDP connections.

Latency readings are clamped to a [-1, 10] second range.



[Collected CSV Data: CSV: 6.2.9 OFDMA Test \(31-STA\) BE 6Ghz OFDMA Enabled Upload](#)

OFDMA: Snapshot BE 6Ghz OFDMA Enabled Upload while running traffic.

| Port          | Tx-Bps 1m  | Rx-Bps 1m   | Tx-Fail % | Tx Link-Rate | Rx Link-Rate | Mode               | Channel | Last CX-Time (ms) | RSSI (dBm) | AP       | IP            | MAC               |
|---------------|------------|-------------|-----------|--------------|--------------|--------------------|---------|-------------------|------------|----------|---------------|-------------------|
| 1.2.20 wlan0  | 1.182 Gbps | 3.9 Mbps    | 55.807    | 2882.6 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 244               | -53        | [hidden] | 192.168.1.197 | e8:bf:b8:5a:12:f2 |
| 1.2.22 wlan2  | 4.025 Mbps | 21.223 Kbps | 32.404    | 2594.2 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 253               | -54        | [hidden] | 192.168.1.187 | e8:bf:b8:5a:12:e8 |
| 1.2.23 wlan3  | 2.917 Mbps | 15.58 Kbps  | 31.544    | 2882.6 Mbps  | 1.73 Gbps    | 802.11a-BE 320 2x2 | 227     | 239               | -55        | [hidden] | 192.168.1.242 | e8:bf:b8:5a:17:2a |
| 1.2.24 wlan4  | 2.981 Mbps | 15.952 Kbps | 17.943    | 3843.1 Mbps  | 3.843 Gbps   | 802.11a-BE 320 2x2 | 227     | 342               | -45        | [hidden] | 192.168.1.193 | e8:bf:b8:59:4e:67 |
| 1.2.25 wlan5  | 2.951 Mbps | 15.773 Kbps | 22.328    | 4322.6 Mbps  | 3.843 Gbps   | 802.11a-BE 320 2x2 | 227     | 973               | -44        | [hidden] | 192.168.1.231 | e8:bf:b8:5a:10:e0 |
| 1.2.26 wlan6  | 4.272 Mbps | 24.124 Kbps | 25.686    | 1921.5 Mbps  | 3.843 Gbps   | 802.11a-BE 320 2x2 | 227     | 122               | -45        | [hidden] | 192.168.1.151 | e8:bf:b8:5a:10:90 |
| 1.2.27 wlan7  | 3.094 Mbps | 15.742 Kbps | 27.103    | 2882.6 Mbps  | 3.843 Gbps   | 802.11a-BE 320 2x2 | 227     | 134               | -45        | [hidden] | 192.168.1.103 | e8:bf:b8:5a:0f:91 |
| 1.3.28 wlan20 | 3.013 Mbps | 16.101 Kbps | 27.776    | 3843.1 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 143               | -51        | [hidden] | 192.168.1.112 | e8:bf:b8:5a:79:3b |
| 1.3.29 wlan21 | 3.099 Mbps | 16.105 Kbps | 26.361    | 3843.1 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 350               | -50        | [hidden] | 192.168.1.236 | e8:bf:b8:5a:79:22 |
| 1.3.30 wlan22 | 2.851 Mbps | 16.105 Kbps | 32.301    | 2305.6 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 1,039             | -53        | [hidden] | 192.168.1.241 | e8:bf:b8:5a:79:27 |
| 1.3.31 wlan23 | 3.144 Mbps | 16.109 Kbps | 22.27     | 3843.1 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 216               | -50        | [hidden] | 192.168.1.164 | e8:bf:b8:5a:11:6c |
| 1.3.32 wlan0  | 3.029 Mbps | 16.04 Kbps  | 27.588    | 3843.1 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 234               | -51        | [hidden] | 192.168.1.138 | 10:91:d1:96:26:7a |
| 1.3.33 wlan5  | 3.041 Mbps | 16.094 Kbps | 28.326    | 3843.1 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 240               | -51        | [hidden] | 192.168.1.108 | 10:91:d1:96:76:48 |
| 1.3.34 wlan10 | 3.065 Mbps | 16.101 Kbps | 28.323    | 3843.1 Mbps  | 2.306 Gbps   | 802.11a-BE 320 2x2 | 227     | 659               | -51        | [hidden] | 192.168.1.237 | 10:91:d1:53:4d:5f |
| 1.3.35 wlan15 | 3.034 Mbps | 16.05 Kbps  | 26.943    | 3843.1 Mbps  | 3.843 Gbps   | 802.11a-BE 320 2x2 | 227     | 234               | -50        | [hidden] | 192.168.1.140 | 10:91:d1:53:15:bf |
| 1.3.36 wlan1  | 3.083 Mbps | 16.057 Kbps | 24.979    | 3843.1 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 141               | -51        | [hidden] | 192.168.1.173 | 10:91:d1:96:85:98 |
| 1.3.37 wlan6  | 3.01 Mbps  | 16.063 Kbps | 29.517    | 3843.1 Mbps  | 2.883 Gbps   | 802.11a-BE 320 2x2 | 227     | 214               | -51        | [hidden] | 192.168.1.124 | 10:91:d1:96:87:05 |
| 1.3.38 wlan11 | 3.066 Mbps | 15.762 Kbps | 24.419    | 3843.1 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 144               | -52        | [hidden] | 192.168.1.176 | e8:bf:b8:5a:2e:c7 |
| 1.3.39 wlan16 | 3.013 Mbps | 15.828 Kbps | 24.733    | 3843.1 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 241               | -53        | [hidden] | 192.168.1.132 | e8:bf:b8:5a:12:b1 |
| 1.3.40 wlan2  | 4.191 Mbps | 21.158 Kbps | 23.462    | 3843.1 Mbps  | 1.921 Gbps   | 802.11a-BE 320 2x2 | 227     | 145               | -50        | [hidden] | 192.168.1.168 | 10:91:d1:96:85:93 |

|                  |            |             |        |             |            |                    |     |     |     |          |               |                   |
|------------------|------------|-------------|--------|-------------|------------|--------------------|-----|-----|-----|----------|---------------|-------------------|
| 1.3.41<br>wlan7  | 2.985 Mbps | 16.117 Kbps | 26.62  | 3843.1 Mbps | 2.594 Gbps | 802.11a-BE 320 2x2 | 227 | 866 | -51 | [hidden] | 192.168.1.135 | 10:91:d1:96:89:44 |
| 1.3.42<br>wlan12 | 3.099 Mbps | 16.145 Kbps | 29.106 | 3843.1 Mbps | 2.306 Gbps | 802.11a-BE 320 2x2 | 227 | 238 | -51 | [hidden] | 192.168.1.128 | 10:91:d1:53:27:30 |
| 1.3.43<br>wlan17 | 3.026 Mbps | 15.967 Kbps | 28.462 | 3843.1 Mbps | 1.921 Gbps | 802.11a-BE 320 2x2 | 227 | 244 | -52 | [hidden] | 192.168.1.154 | e8:bf:b8:5a:11:62 |
| 1.3.44<br>wlan3  | 3.099 Mbps | 16.101 Kbps | 23.191 | 3843.1 Mbps | 2.306 Gbps | 802.11a-BE 320 2x2 | 227 | 117 | -51 | [hidden] | 192.168.1.194 | a0:b3:39:64:82:ff |
| 1.3.45<br>wlan8  | 3.069 Mbps | 16.121 Kbps | 27.522 | 3843.1 Mbps | 3.843 Gbps | 802.11a-BE 320 2x2 | 227 | 148 | -51 | [hidden] | 192.168.1.133 | 10:91:d1:53:27:35 |
| 1.3.46<br>wlan13 | 3.082 Mbps | 16.03 Kbps  | 25.987 | 3843.1 Mbps | 2.306 Gbps | 802.11a-BE 320 2x2 | 227 | 328 | -49 | [hidden] | 192.168.1.113 | 10:91:d1:53:16:73 |
| 1.3.47<br>wlan18 | 3.022 Mbps | 16.117 Kbps | 27.368 | 3843.1 Mbps | 1.921 Gbps | 802.11a-BE 320 2x2 | 227 | 139 | -52 | [hidden] | 192.168.1.110 | e8:bf:b8:5a:18:a1 |
| 1.3.48<br>wlan4  | 3.14 Mbps  | 16.113 Kbps | 22.791 | 3843.1 Mbps | 2.883 Gbps | 802.11a-BE 320 2x2 | 227 | 994 | -51 | [hidden] | 192.168.1.163 | a0:b3:39:64:82:e1 |
| 1.3.49<br>wlan9  | 3.06 Mbps  | 16.115 Kbps | 29.604 | 3843.1 Mbps | 1.921 Gbps | 802.11a-BE 320 2x2 | 227 | 224 | -50 | [hidden] | 192.168.1.186 | 10:91:d1:53:28:39 |
| 1.3.50<br>wlan14 | 3.067 Mbps | 16.104 Kbps | 27.891 | 3843.1 Mbps | 2.594 Gbps | 802.11a-BE 320 2x2 | 227 | 134 | -50 | [hidden] | 192.168.1.223 | e8:bf:b8:5a:0f:73 |
| 1.3.51<br>wlan19 | 3.079 Mbps | 16.1 Kbps   | 28.09  | 3843.1 Mbps | 1.921 Gbps | 802.11a-BE 320 2x2 | 227 | 453 | -52 | [hidden] | 192.168.1.123 | e8:bf:b8:5a:78:78 |

| Port       | Tx-Bps 1m  | Rx-Bps 1m  | Link-Rate | IP            | MAC               |
|------------|------------|------------|-----------|---------------|-------------------|
| 1.3.2 eth2 | 4.549 Mbps | 1.283 Gbps | 10 Gbps   | 192.168.1.183 | 9c:69:b4:61:e5:b4 |

| Endpoint                     | Tx-Bps 1m    | Rx-Bps 1m    | TxPkts | RxPkts | RX Lat (ms) | RT Lat (ms) | Jitter | Rx Pkt Loss % | Rx OOO % | Rx DUP | Rx Seq Drop |
|------------------------------|--------------|--------------|--------|--------|-------------|-------------|--------|---------------|----------|--------|-------------|
| cv_tcp-3.2-2.wlan0-1.0.0-A   | 390.543 Mbps | 0 bps        | 47155  | 0      | 0           | 393         | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0-1.0.0-B   | 0 bps        | 390.285 Mbps | 0      | 47697  | 393         | 393         | 123    | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0-1.0.1-A   | 382.323 Mbps | 0 bps        | 46550  | 0      | 0           | 441         | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0-1.0.1-B   | 0 bps        | 383.353 Mbps | 0      | 47341  | 441         | 441         | 130    | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0-1.0.2-A   | 393.077 Mbps | 0 bps        | 47855  | 0      | 0           | 353         | 0      | 0             | 0        | 0      | 0           |
| cv_tcp-3.2-2.wlan0-1.0.2-B   | 0 bps        | 394.347 Mbps | 0      | 48604  | 353         | 353         | 133    | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan2-1.0.2-A   | 3.744 Mbps   | 19.932 Kbps  | 42028  | 224    | 31          | 57          | 20     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan2-1.0.2-B   | 19.942 Kbps  | 3.729 Mbps   | 227    | 42331  | 26          | 57          | 0      | 0             | 0        | 140    | 390         |
| cv_udp-3.2-2.wlan3-1.0.3-A   | 3.769 Mbps   | 19.992 Kbps  | 42320  | 225    | 26          | 54          | 15     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan3-1.0.3-B   | 19.959 Kbps  | 3.755 Mbps   | 225    | 42234  | 28          | 54          | 0      | 0.454         | 0        | 106    | 283         |
| cv_udp-3.2-2.wlan4-1.0.4-A   | 3.856 Mbps   | 19.805 Kbps  | 43516  | 224    | 24          | 51          | 17     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan4-1.0.4-B   | 19.892 Kbps  | 3.851 Mbps   | 224    | 43307  | 27          | 51          | 0      | 0             | 0        | 23     | 94          |
| cv_udp-3.2-2.wlan5-1.0.5-A   | 3.722 Mbps   | 19.899 Kbps  | 42044  | 224    | 26          | 48          | 19     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan5-1.0.5-B   | 19.932 Kbps  | 3.71 Mbps    | 224    | 41869  | 22          | 48          | 0      | 0             | 0        | 52     | 170         |
| cv_udp-3.2-2.wlan6-1.0.6-A   | 3.931 Mbps   | 19.959 Kbps  | 44298  | 224    | 26          | 59          | 16     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan6-1.0.6-B   | 20.026 Kbps  | 3.926 Mbps   | 224    | 44149  | 33          | 59          | 0      | 0             | 0        | 61     | 118         |
| cv_udp-3.2-2.wlan7-1.0.7-A   | 3.95 Mbps    | 19.925 Kbps  | 44620  | 225    | 27          | 58          | 24     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-2.wlan7-1.0.7-B   | 19.959 Kbps  | 3.948 Mbps   | 225    | 44572  | 31          | 58          | 0      | 0             | 0        | 46     | 96          |
| cv_udp-3.2-3.wlan20-1.0.8-A  | 3.851 Mbps   | 19.925 Kbps  | 43286  | 225    | 21          | 65          | 14     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-3.wlan20-1.0.8-B  | 19.959 Kbps  | 3.84 Mbps    | 225    | 43122  | 44          | 65          | 0      | 0             | 0        | 65     | 229         |
| cv_udp-3.2-3.wlan21-1.0.9-A  | 3.874 Mbps   | 19.925 Kbps  | 43700  | 225    | 23          | 49          | 18     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-3.wlan21-1.0.9-B  | 19.915 Kbps  | 3.855 Mbps   | 226    | 43699  | 26          | 49          | 0      | 0.213         | 0        | 92     | 185         |
| cv_udp-3.2-3.wlan22-1.0.10-A | 3.618 Mbps   | 19.925 Kbps  | 40740  | 225    | 23          | 80          | 15     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-3.wlan22-1.0.10-B | 19.865 Kbps  | 3.59 Mbps    | 224    | 40405  | 57          | 80          | 0      | 0             | 0        | 145    | 429         |
| cv_udp-3.2-3.wlan23-1.0.11-A | 3.939 Mbps   | 19.891 Kbps  | 44482  | 225    | 22          | 47          | 19     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-3.wlan23-1.0.11-B | 19.915 Kbps  | 3.934 Mbps   | 226    | 44514  | 25          | 47          | 0      | 0.061         | 0        | 59     | 165         |
| cv_udp-3.2-3.wlan0-1.0.12-A  | 3.819 Mbps   | 20.009 Kbps  | 43230  | 226    | 24          | 62          | 16     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-3.wlan0-1.0.12-B  | 19.865 Kbps  | 3.829 Mbps   | 224    | 43059  | 38          | 62          | 0      | 0             | 0        | 77     | 145         |
| cv_udp-3.2-3.wlan5-1.0.13-A  | 3.777 Mbps   | 20.008 Kbps  | 42688  | 226    | 20          | 47          | 12     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-3.wlan5-1.0.13-B  | 19.975 Kbps  | 3.766 Mbps   | 226    | 42660  | 27          | 47          | 1      | 0.281         | 0        | 92     | 191         |
| cv_udp-3.2-3.wlan10-1.0.14-A | 3.848 Mbps   | 19.975 Kbps  | 43470  | 226    | 22          | 54          | 14     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-3.wlan10-1.0.14-B | 19.915 Kbps  | 3.837 Mbps   | 225    | 43273  | 32          | 54          | 0      | 0             | 0        | 77     | 182         |
| cv_udp-3.2-3.wlan15-1.0.15-A | 3.826 Mbps   | 19.975 Kbps  | 43194  | 226    | 20          | 69          | 14     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-3.wlan15-1.0.15-B | 19.959 Kbps  | 3.826 Mbps   | 224    | 42852  | 49          | 69          | 0      | 0             | 0        | 82     | 194         |
| cv_udp-3.2-3.wlan1-1.0.16-A  | 3.842 Mbps   | 19.942 Kbps  | 43516  | 226    | 21          | 66          | 14     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-3.wlan1-1.0.16-B  | 19.891 Kbps  | 3.833 Mbps   | 225    | 43157  | 45          | 66          | 1      | 0             | 0        | 72     | 128         |
| cv_udp-3.2-3.wlan6-1.0.17-A  | 3.738 Mbps   | 19.942 Kbps  | 42182  | 226    | 20          | 49          | 16     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-3.wlan6-1.0.17-B  | 19.942 Kbps  | 3.735 Mbps   | 226    | 42100  | 29          | 49          | 0      | 0.372         | 0        | 75     | 126         |
| cv_udp-3.2-3.wlan11-1.0.18-A | 3.869 Mbps   | 19.926 Kbps  | 43010  | 222    | 20          | 86          | 16     | 0             | 0        | 0      | 0           |
| cv_udp-3.2-3.wlan11-1.0.18-B | 19.985 Kbps  | 3.846 Mbps   | 225    | 43066  | 66          | 86          | 1      | 0.051         | 0        | 78     | 239         |
| cv_udp-3.2-3.wlan16-1.0.19-A | 3.802 Mbps   | 20.079 Kbps  | 42320  | 223    | 20          | 55          | 13     | 0             | 0        | 0      | 0           |

|                              |             |             |       |       |  |    |    |    |       |   |    |   |     |
|------------------------------|-------------|-------------|-------|-------|--|----|----|----|-------|---|----|---|-----|
| cv_udp-3.2-3.wlan16-1.0.19-B | 19.959 Kbps | 3.797 Mbps  | 224   | 42464 |  | 35 | 55 | 0  | 0     | 0 | 60 |   | 146 |
| cv_udp-3.2-3.wlan2-1.0.20-A  | 3.837 Mbps  | 19.932 Kbps | 42918 | 223   |  | 24 | 43 | 19 | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan2-1.0.20-B  | 19.932 Kbps | 3.831 Mbps  | 223   | 42844 |  | 19 | 43 | 0  | 0.315 | 0 | 61 |   | 154 |
| cv_udp-3.2-3.wlan7-1.0.21-A  | 3.836 Mbps  | 19.932 Kbps | 42843 | 223   |  | 24 | 63 | 14 | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan7-1.0.21-B  | 19.848 Kbps | 3.826 Mbps  | 225   | 43202 |  | 39 | 63 | 0  | 0     | 0 | 74 |   | 206 |
| cv_udp-3.2-3.wlan12-1.0.22-A | 3.897 Mbps  | 19.838 Kbps | 43424 | 222   |  | 18 | 55 | 8  | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan12-1.0.22-B | 19.881 Kbps | 3.891 Mbps  | 225   | 43802 |  | 37 | 55 | 0  | 0     | 0 | 73 |   | 173 |
| cv_udp-3.2-3.wlan17-1.0.23-A | 3.8 Mbps    | 19.899 Kbps | 42458 | 223   |  | 19 | 40 | 9  | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan17-1.0.23-B | 19.865 Kbps | 3.788 Mbps  | 223   | 42468 |  | 21 | 40 | 0  | 0.134 | 0 | 67 |   | 175 |
| cv_udp-3.2-3.wlan3-1.0.24-A  | 3.856 Mbps  | 19.899 Kbps | 43147 | 223   |  | 24 | 47 | 17 | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan3-1.0.24-B  | 19.865 Kbps | 3.847 Mbps  | 223   | 43056 |  | 23 | 47 | 1  | 0.315 | 0 | 45 |   | 168 |
| cv_udp-3.2-3.wlan8-1.0.25-A  | 3.865 Mbps  | 19.865 Kbps | 43270 | 223   |  | 21 | 41 | 19 | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan8-1.0.25-B  | 19.942 Kbps | 3.866 Mbps  | 225   | 43634 |  | 20 | 41 | 0  | 0     | 0 | 72 |   | 130 |
| cv_udp-3.2-3.wlan13-1.0.26-A | 3.907 Mbps  | 19.832 Kbps | 43608 | 223   |  | 22 | 43 | 14 | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan13-1.0.26-B | 19.838 Kbps | 3.895 Mbps  | 222   | 43313 |  | 21 | 43 | 0  | 0     | 0 | 56 |   | 161 |
| cv_udp-3.2-3.wlan18-1.0.27-A | 3.778 Mbps  | 19.925 Kbps | 42274 | 223   |  | 21 | 71 | 13 | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan18-1.0.27-B | 19.959 Kbps | 3.772 Mbps  | 223   | 42128 |  | 50 | 71 | 1  | 0     | 0 | 77 |   | 180 |
| cv_udp-3.2-3.wlan4-1.0.28-A  | 3.937 Mbps  | 19.925 Kbps | 44014 | 223   |  | 20 | 72 | 11 | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan4-1.0.28-B  | 19.948 Kbps | 3.922 Mbps  | 224   | 43976 |  | 52 | 72 | 0  | 0.234 | 0 | 65 |   | 203 |
| cv_udp-3.2-3.wlan9-1.0.29-A  | 3.815 Mbps  | 19.985 Kbps | 42734 | 224   |  | 23 | 42 | 13 | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan9-1.0.29-B  | 20.035 Kbps | 3.81 Mbps   | 226   | 42922 |  | 19 | 42 | 0  | 0     | 0 | 59 |   | 141 |
| cv_udp-3.2-3.wlan14-1.0.30-A | 3.9 Mbps    | 19.854 Kbps | 43562 | 223   |  | 23 | 79 | 14 | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan14-1.0.30-B | 19.959 Kbps | 3.895 Mbps  | 223   | 43314 |  | 56 | 79 | 0  | 0     | 0 | 66 |   | 163 |
| cv_udp-3.2-3.wlan19-1.0.31-A | 3.85 Mbps   | 19.915 Kbps | 43148 | 224   |  | 23 | 49 | 16 | 0     | 0 | 0  | 0 | 0   |
| cv_udp-3.2-3.wlan19-1.0.31-B | 19.959 Kbps | 3.849 Mbps  | 223   | 42897 |  | 26 | 49 | 3  | 0     | 0 | 64 |   | 163 |

## Trigger frame Bandwidth Report: BE 6Ghz OFDMA Enabled

Upload: Last few frames.

Each row shows the reported bandwidth allocation. Each cell in the row indicates the AID (station identifier) and its respective bandwidth. Duplicated (same bandwidth allocation) sequences of frames are skipped, with only the last one being reported.

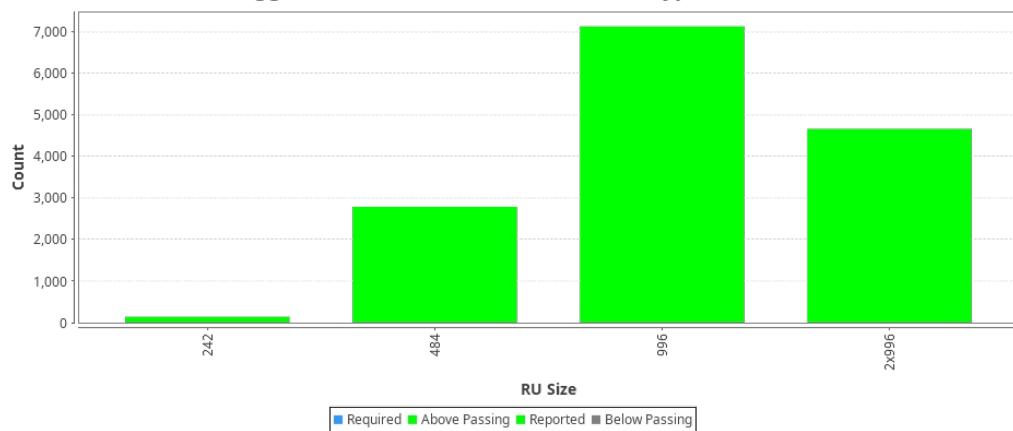
BSRP frames are currently skipped.

| Frame   | MU-MIMO SS | Dups | Type   | 0-8    | 9-17   | 18-26  | 27-36  | 37-45  | 46-54  | 55-63  | 64-73  | 74-82  | 83-91  | 92-100 | 101-110 | 111-119 | 120-128 | 129-137 | 138-147 |        |        |
|---|------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|
| 153019  | 1-2        | 0    | Basic  | 3 484  | 28 242 | 19 242 | 25 242 | 29 242 | 33 242 | 5 242  | 22 484 | 9 484  | 4 484  | 27 484 |         |         |         |         |         |        |        |
| 153022 1-2 0 Basic 10 4x996   |            |      |        |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |        |        |
| 153029  | 1-2        | 0    | Basic  | 16 242 | 7 242  | 23 242 | 32 242 | 17 242 | 8 242  | 15 106 | -1     | 18 106 | 14 106 | -1     | 21 106  | 24 484  | 31 484  | 11 242  | 20 242  | 26 242 | 12 242 |
| 153031 1-2 0 Basic 10 4x996   |            |      |        |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |        |        |
| 153031  | 1-2        | 0    | Basic  | 29 242 | 33 242 | 22 242 | 28 242 | 25 242 | 4 242  | 9 242  | 3 242  | 11 484 | 27 484 | 5 484  | 2 242   | 19 242  |         |         |         |        |        |
| 153033 1-2 0 Basic 10 4x996   |            |      |        |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |        |        |
| 153038  | 1-2        | 0    | Basic  | 32 242 | 2 242  | 23 242 | 14 242 | 17 242 | 8 242  | 26 106 | -1     | 16 106 | 15 106 | -1     | 31 106  | 18 484  | 21 484  | 12 242  | 20 242  | 24 242 | 7 242  |
| 153043 1-2 0 Basic 5 484 22 242 27 242 29 242 4 242 9 242 3 242 19 484 25 484 33 484 28 484           |            |      |        |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |        |        |
| 153048  | 1          | 0    | MU-BAR | 20 996 |        |        |        | 6 484  |        |        | 14 484 |        |        |        | 31 996  |         |         | 23 996  |         |        |        |
| 153053 1-2 0 Basic 29 242 19 242 33 242 22 242 28 242 27 242 4 242 3 242 2 242 9 484+242 25 484 5 484 |            |      |        |        |        |        |        |        |        |        |        |        |        |        |         |         |         |         |         |        |        |
| 153062  | 1-2        | 0    | Basic  | 16 242 | 23 242 | 14 242 | 21 242 | 17 242 | 8 242  | 26 106 | -1     | 18 106 | 7 106  | -1     | 31 106  | 24 484  | 15 484  | 11 242  | 10 242  | 20 242 | 12 242 |

|        |     |   |        |  |  |          |  |
|--------|-----|---|--------|--|--|----------|--|
| 153064 | 1-2 | 0 | Basic  | 11 3x996   | 32 996   | 11 3x996 |  |
| 153077 | 1   | 0 | MU-BAR | 3 996  | 8 996  | 6 2x996  |  |
| 153078 | 1-2 | 0 | Basic  | 9 242 25 242 28 242 10 242 5 242 16 242 26 242 22 106 -1 4 106 27 484 2 242 29 242 3 242 12 242 24 242 19 242          |  |          |  |
| 153094 | 1-2 | 0 | Basic  | 33 4x996   |  |          |  |
| 153099 | 1-2 | 0 | Basic  | 7 242 2 242 29 242 9 242 4 242 18 106 -1 31 106 23 106 -1 14 106 32 106 -1 19 106 21 484 17 484 8 484 20 242 15 242    |  |          |  |
| 153104 | 1   | 0 | MU-BAR | 12 996   | 2 996  | 30 996   |  |
| 153118 | 1-2 | 0 | Basic  | 28 242 33 242 5 242 18 242 15 242 7 242 25 106 -1 3 106 26 106 -1 16 106 22 242 24 484+242 27 242 10 242 12 242 31 242 |  |          |  |
| 153122 | 1-2 | 0 | Basic  | 4 484  | 29 242 21 242 32 242 8 242 19 242 9 242 23 242 14 484+242 2 242 17 484+242 |          |  |
| 153125 | 1-2 | 0 | Basic  | 20 4x996   |  |          |  |

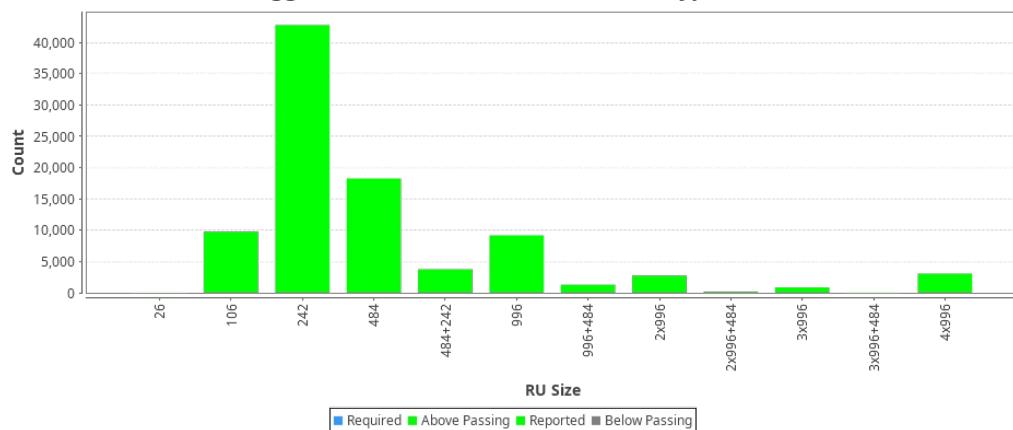
[CSV Data for 6.2.9 OFDMA Test \(31-STA\) BE 6Ghz OFDMA Enabled Upload Trigger frame RU Allocation Counts for type: MU-BAR](#)

### 6.2.9 OFDMA Test (31-STA) BE 6Ghz OFDMA Enabled Upload Trigger frame RU Allocation Counts for type: MU-BAR



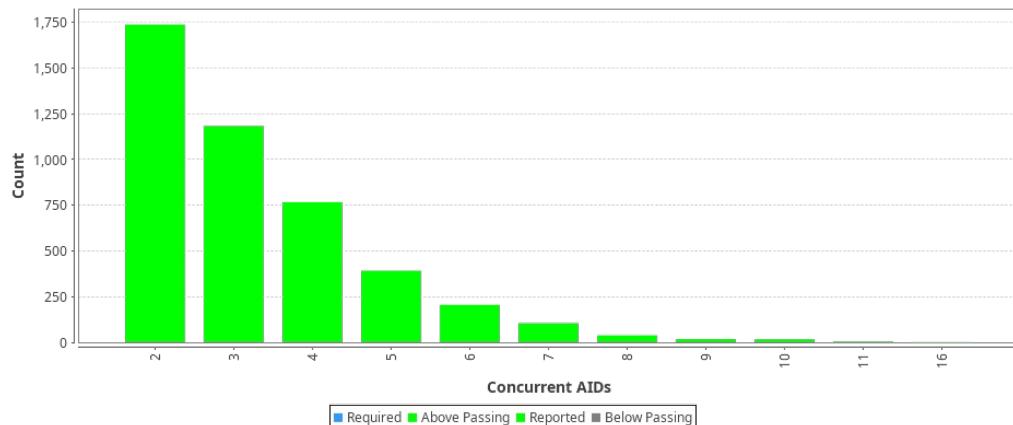
[CSV Data for 6.2.9 OFDMA Test \(31-STA\) BE 6Ghz OFDMA Enabled Upload Trigger frame RU Allocation Counts for type: Basic](#)

### 6.2.9 OFDMA Test (31-STA) BE 6Ghz OFDMA Enabled Upload Trigger frame RU Allocation Counts for type: Basic



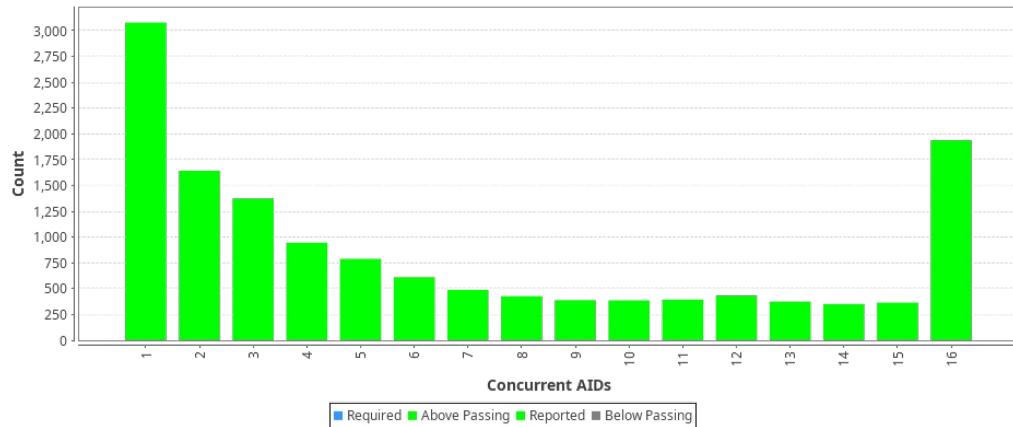
[CSV Data for 6.2.9 OFDMA Test \(31-STA\) BE 6Ghz OFDMA Enabled Upload Trigger frame Concurrent AID Counts for type: MU-BAR](#)

**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Enabled Upload**  
**Trigger frame Concurrent AID Counts for type: MU-BAR**



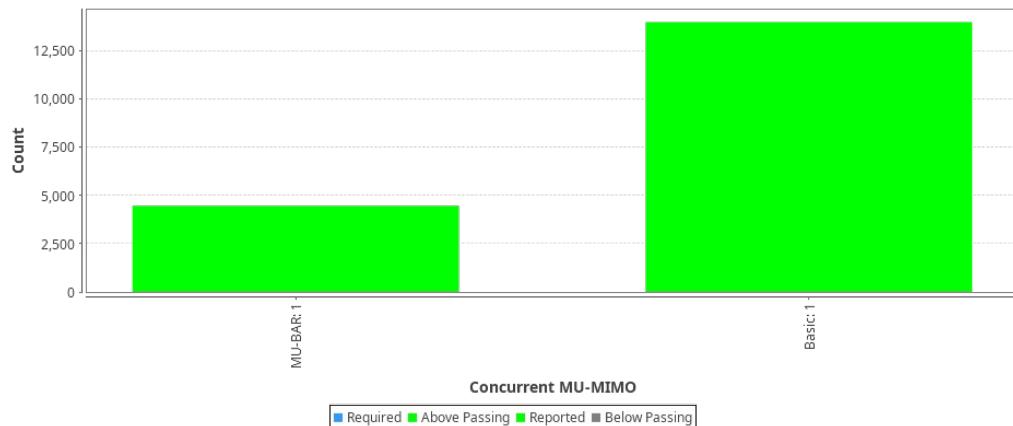
CSV Data for 6.2.9 OFDMA Test (31-STA) BE 6Ghz OFDMA Enabled Upload Trigger frame Concurrent AID Counts for type:  
[Basic](#)

**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Enabled Upload**  
**Trigger frame Concurrent AID Counts for type: Basic**

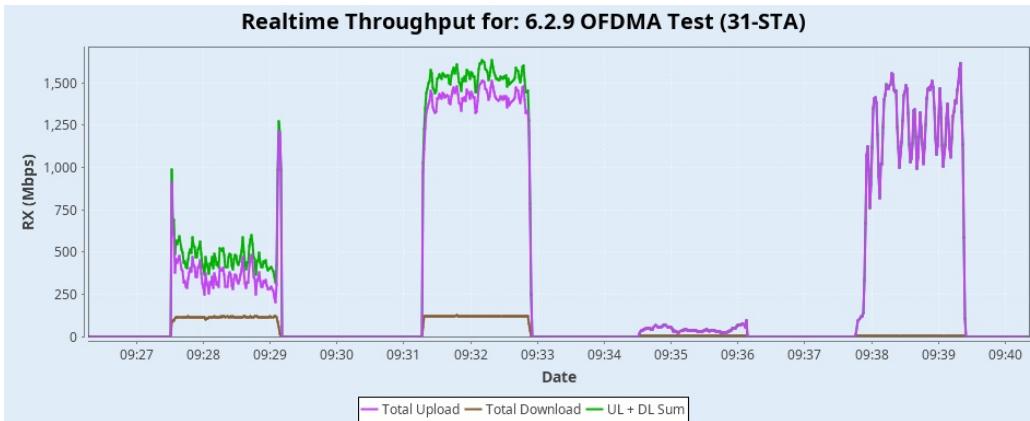


CSV Data for 6.2.9 OFDMA Test (31-STA) BE 6Ghz OFDMA Enabled Upload Trigger frame Concurrent MU-MIMO Counts

**6.2.9 OFDMA Test (31-STA)**  
**BE 6Ghz OFDMA Enabled Upload**  
**Trigger frame Concurrent MU-MIMO Counts**



[Full OFDMA Trigger Packet Capture HTML report: BE 6Ghz OFDMA Enabled Upload](#)



[Key Performance Indicators CSV](#)

| Test configuration and LANforge software version |  |
|--|--|
| Auto-Helper                                      | true   |
| Allow-11w (MFP/PMF)                              | false  |
| SAE-PWE  | 2  |
| Disable-MLO                                      | true   |
| TXS All  | false  |
| Skip 2.4Ghz Tests                                | true   |
| Skip 5Ghz Tests                                  | true   |
| Duration-120                                     | 30   |
| Duration-60                                      | 30   |
| Channel 2GHz                                     | AUTO   |
| Channel 5GHz                                     | AUTO   |
| Channel 6GHz                                     | AUTO   |
| Calibrate against LANforge AP                    | true   |
| LANforge Calibration TxPower-2.4G                | 20   |
| LANforge Calibration TxPower-5G                  | 20   |
| Multi-Conn                                       | 10   |
| Use-IPv6   | false  |
| UDP-Burst  | true   |
| UDP-GRO  | false  |
| Multiple Endpoints:                              | 3  |
| ToS  | 0  |
| Pld Pattern                                      | RANDOM_FIXED   |
| UDP Send Buffer Size:                            | 0  |
| UDP Receive Buffer Size:                         | 0  |
| TCP Send Buffer Size:                            | 0  |
| TCP Receive Buffer Size:                         | 0  |
| Upstream Port                                    | 1.3.eth2 Firmware: 0x80000aef, 1.1876.0 Resource: 204-tr398-r3   |
| Alien Upstream Port                              | 1.2.2 eth2 Firmware: 0x80000aef, 1.1876.0 Resource: 204-tr398-r2 |

|                                  |            |
|----------------------------------|------------|
| Turn-Table Chamber               | TR-398     |
| Prefer Virtual STA Radios        | false      |
| Opposite-Speed:                  | 20000      |
| 1Gbps Throughput Limit:          | 925000000  |
| 2.5Gbps Throughput Limit:        | 2300000000 |
| 5Gbps Throughput Limit:          | 4600000000 |
| Prefer Group 0                   | false      |
| Prefer Group 1                   | true       |
| Prefer Group 2                   | false      |
| Extra TxStatus                   | false      |
| Extra RxStatus                   | false      |
| TXS All                          | false      |
| Adjust UL Atten with STA TxPower | true       |
| Adjust UL Atten with DUT TxPower | false      |
| 2.4GHz Channel                   | -1         |
| 5GHz Channel                     | -1         |
| 6GHz Channel                     | -1         |
| Default NSS                      | 2          |
| 2.4GHz 2m RSSI                   | -25        |
| 5GHz 2m RSSI                     | -30        |
| Attenuation Adjustment           | 0          |
| Extra Download Path-loss         | 0          |
| STA TX Power:                    | 20         |
| DUT AP Expected TX Power-2.4G:   | 30         |
| DUT AP Expected TX Power-5G:     | 30         |
| Virt-Sta Rotation 2.4GHz         | 0          |
| Virt-Sta Rotation 5GHz           | 0          |
| Virt-Sta Rotation 6GHz           | 0          |
| AX Rotation 2.4GHz               | 0          |
| AX Rotation 5GHz                 | 0          |
| AX Rotation 6GHz                 | 0          |
| 6.2.9 OFDMA Throughput           |            |
| PDU Size:                        | 700        |
| OFDMA Throughput Requirement:    | 1050000    |
| Ramp Duration:                   | 30         |
| UDP Download rate 2GHz:          | 1000000    |
| UDP Download rate 5/6GHz:        | 4000000    |
| OFDMA STA Count:                 | 31         |
| TCP Traffic:                     | 4          |

|                        |  |
|------------------------|--|
| Randomize Offered Load | false  |
| OFDMA Download         | true   |
| OFDMA Upload           | true   |
| Packet Capture         | true   |
| Latency over Time      | false  |
| AX Radio 0             | 1.2.wiphy0 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r2  |
| AX Radio 2             | 1.2.wiphy2 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r2  |
| AX Radio 3             | 1.2.wiphy3 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r2  |
| AX Radio 4             | 1.2.wiphy4 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r2  |
| AX Radio 5             | 1.2.wiphy5 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r2  |
| AX Radio 6             | 1.2.wiphy6 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r2  |
| AX Radio 7             | 1.2.wiphy7 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r2  |
| AX Radio 8             | 1.3.wiphy20 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 9             | 1.3.wiphy21 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 10            | 1.3.wiphy22 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 11            | 1.3.wiphy23 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 12            | 1.3.wiphy0 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3  |
| AX Radio 13            | 1.3.wiphy5 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3  |
| AX Radio 14            | 1.3.wiphy10 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 15            | 1.3.wiphy15 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 16            | 1.3.wiphy1 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3  |
| AX Radio 17            | 1.3.wiphy6 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3  |
| AX Radio 18            | 1.3.wiphy11 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 19            | 1.3.wiphy16 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 20            | 1.3.wiphy2 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3  |
| AX Radio 21            | 1.3.wiphy7 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3  |
| AX Radio 22            | 1.3.wiphy12 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 23            | 1.3.wiphy17 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |

|                           |  |
|---------------------------|--|
| AX Radio 24               | 1.3.wiphy3 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3  |
| AX Radio 25               | 1.3.wiphy8 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3  |
| AX Radio 26               | 1.3.wiphy13 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 27               | 1.3.wiphy18 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 28               | 1.3.wiphy4 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3  |
| AX Radio 29               | 1.3.wiphy9 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3  |
| AX Radio 30               | 1.3.wiphy14 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Radio 31               | 1.3.wiphy19 Firmware: 94.62990553.0 gl-c0-fm-c0-94.uc Resource: 204-tr398-r3 |
| AX Attenuator 0           | AX rssi-0-2.4GHz: -26 rssi-0-5GHz: -39 atten: 1.1.3100.3                     |
| AX Attenuator 1           | AX rssi-0-2.4GHz: -26 rssi-0-5GHz: -39 atten: 1.1.3100.2                     |
| AX Attenuator 2           | AX rssi-0-2.4GHz: -26 rssi-0-5GHz: -39 atten: NA                             |
| AX Attenuator 3           | AX rssi-0-2.4GHz: -26 rssi-0-5GHz: -39 atten: NA                             |
| AX Attenuator 4           | AX rssi-0-2.4GHz: -29 rssi-0-5GHz: -44 atten: 1.1.3100.1                     |
| AX Attenuator 5           | AX rssi-0-2.4GHz: -29 rssi-0-5GHz: -44 atten: 1.1.3100.0                     |
| AX Attenuator 6           | AX rssi-0-2.4GHz: -29 rssi-0-5GHz: -44 atten: NA                             |
| AX Attenuator 7           | AX rssi-0-2.4GHz: -29 rssi-0-5GHz: -44 atten: NA                             |
| AX Attenuator 8           | AX rssi-0-2.4GHz: -32 rssi-0-5GHz: -64 atten: 1.1.3099.3                     |
| AX Attenuator 9           | AX rssi-0-2.4GHz: -32 rssi-0-5GHz: -64 atten: 1.1.3099.2                     |
| AX Attenuator 10          | AX rssi-0-2.4GHz: -32 rssi-0-5GHz: -64 atten: NA                             |
| AX Attenuator 11          | AX rssi-0-2.4GHz: -32 rssi-0-5GHz: -64 atten: NA                             |
| Details for Resource: 1.1 | Hostname: 204-tr398-mgr LANforge ver: 5.4.9 64bit Kernel-Version: 6.11.11+   |
| Details for Resource: 1.2 | Hostname: 204-tr398-r2 LANforge ver: 5.4.9 64bit Kernel-Version: 6.11.11+    |
| Details for Resource: 1.3 | Hostname: 204-tr398-r3 LANforge ver: 5.4.9 64bit Kernel-Version: 6.11.11+    |
| Show Events               | true   |
| Build Date                | Tue Dec 17 03:07:13 PM PST 2024  |
| Git Version               | 15dd4ea59a7ddcf60042675904c52779cddea9ba                                     |

## [CSV Data](#)

[META Information for TR-398 Issue 4](#)

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