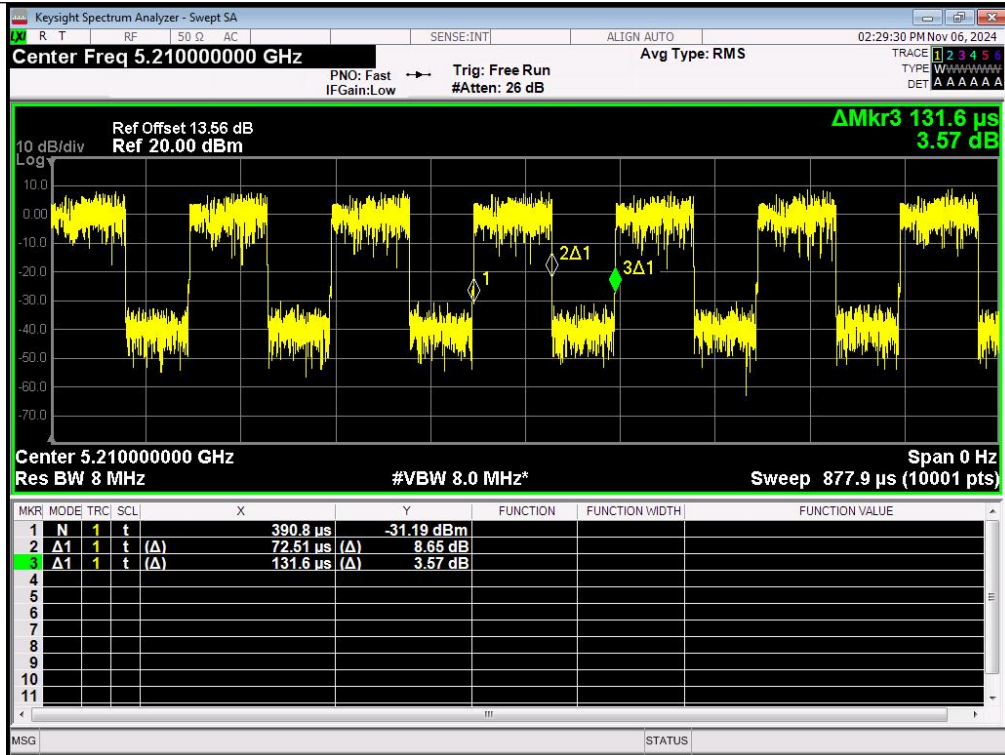




IEEE 802.11ac\_80MHz\_Channel 42

## B.8 PEAK POWER SPECTRAL DENSITY

### Test Result

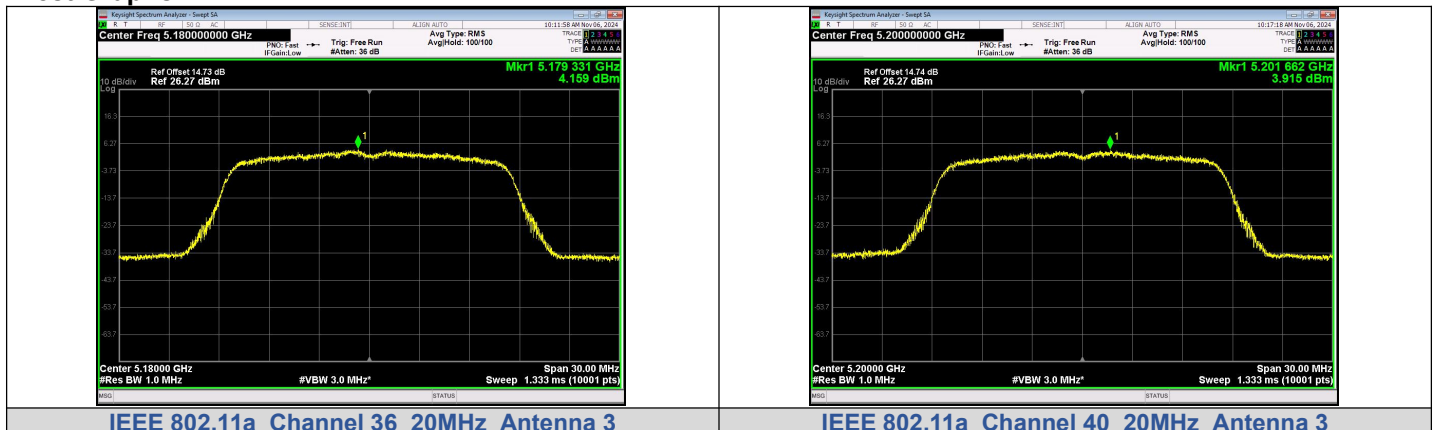
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant3    | 4.159               | 4.56             | 8.719           | 17          | Pass    |
| NVNT      | a    | 5200            | Ant3    | 3.915               | 4.64             | 8.555           | 17          | Pass    |
| NVNT      | a    | 5240            | Ant3    | 5.392               | 5.01             | 10.402          | 17          | Pass    |
| NVNT      | n20  | 5180            | Ant3    | 2.221               | 4.98             | 7.201           | 17          | Pass    |
| NVNT      | n20  | 5200            | Ant3    | 2.455               | 4.9              | 7.355           | 17          | Pass    |
| NVNT      | n20  | 5240            | Ant3    | 3.271               | 4.99             | 8.261           | 17          | Pass    |
| NVNT      | n40  | 5190            | Ant3    | -0.648              | 6.61             | 5.962           | 17          | Pass    |
| NVNT      | n40  | 5230            | Ant3    | 0.988               | 6.63             | 7.618           | 17          | Pass    |
| NVNT      | ac20 | 5180            | Ant3    | 1.981               | 4.7              | 6.681           | 17          | Pass    |
| NVNT      | ac20 | 5200            | Ant3    | 1.265               | 5.07             | 6.335           | 17          | Pass    |
| NVNT      | ac20 | 5240            | Ant3    | 3.813               | 4.71             | 8.523           | 17          | Pass    |
| NVNT      | ac40 | 5190            | Ant3    | -0.085              | 5.86             | 5.775           | 17          | Pass    |
| NVNT      | ac40 | 5230            | Ant3    | 0.911               | 5.85             | 6.761           | 17          | Pass    |
| NVNT      | ac80 | 5210            | Ant3    | -3.426              | 7.59             | 4.164           | 17          | Pass    |

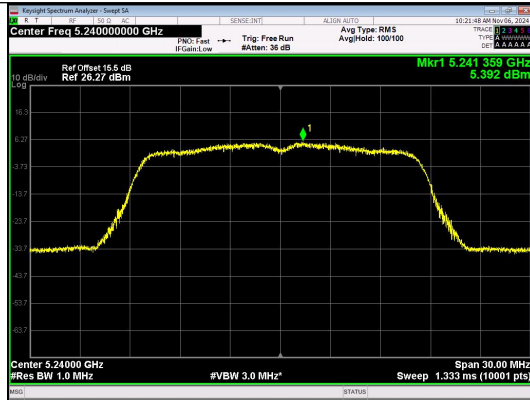
| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm) | Duty Factor (dB) | Total PSD (dBm) | Limit (dBm) | Verdict |
|-----------|------|-----------------|---------|---------------------|------------------|-----------------|-------------|---------|
| NVNT      | a    | 5180            | Ant4    | 3.823               | 1.27             | 5.093           | 17          | Pass    |
| NVNT      | a    | 5200            | Ant4    | 8.768               | 1.27             | 10.038          | 17          | Pass    |
| NVNT      | a    | 5240            | Ant4    | 7.798               | 1.27             | 9.068           | 17          | Pass    |
| NVNT      | n20  | 5180            | Ant4    | 2.772               | 1.45             | 4.222           | 17          | Pass    |
| NVNT      | n20  | 5200            | Ant4    | 5.750               | 1.44             | 7.190           | 17          | Pass    |
| NVNT      | n20  | 5240            | Ant4    | 5.928               | 1.45             | 7.378           | 17          | Pass    |
| NVNT      | n40  | 5190            | Ant4    | 0.285               | 2.23             | 2.515           | 17          | Pass    |
| NVNT      | n40  | 5230            | Ant4    | 2.177               | 2.24             | 4.417           | 17          | Pass    |
| NVNT      | ac20 | 5180            | Ant4    | 2.844               | 1.32             | 4.164           | 17          | Pass    |
| NVNT      | ac20 | 5200            | Ant4    | 3.625               | 1.33             | 4.955           | 17          | Pass    |
| NVNT      | ac20 | 5240            | Ant4    | 5.186               | 1.32             | 6.506           | 17          | Pass    |
| NVNT      | ac40 | 5190            | Ant4    | -0.485              | 1.96             | 1.475           | 17          | Pass    |
| NVNT      | ac40 | 5230            | Ant4    | 1.433               | 1.96             | 3.393           | 17          | Pass    |
| NVNT      | ac80 | 5210            | Ant4    | -1.69               | 2.59             | 0.900           | 17          | Pass    |

### MIMO

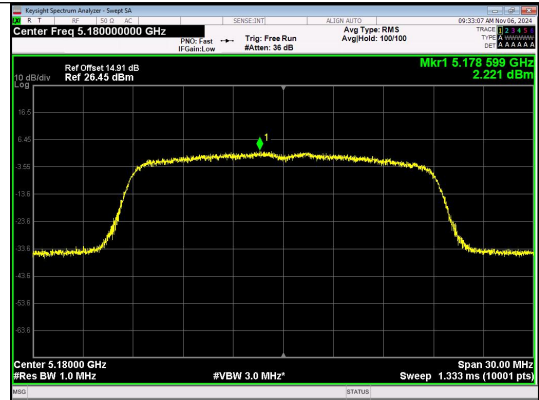
| Condition | Mode | Frequency (MHz) | Total PSD (dBm) |       |           | Limit (dBm) | Verdict |
|-----------|------|-----------------|-----------------|-------|-----------|-------------|---------|
|           |      |                 | Ant3            | Ant4  | Ant3+Ant4 |             |         |
| NVNT      | n20  | 5180            | 7.201           | 4.222 | 8.97      | 14.58       | Pass    |
| NVNT      | n20  | 5200            | 7.355           | 7.190 | 10.28     | 14.58       | Pass    |
| NVNT      | n20  | 5240            | 8.261           | 7.378 | 10.85     | 14.58       | Pass    |
| NVNT      | n40  | 5190            | 5.962           | 2.515 | 7.58      | 14.58       | Pass    |
| NVNT      | n40  | 5230            | 7.618           | 4.417 | 9.32      | 14.58       | Pass    |
| NVNT      | ac20 | 5180            | 6.681           | 4.164 | 8.61      | 14.58       | Pass    |
| NVNT      | ac20 | 5200            | 6.335           | 4.955 | 8.71      | 14.58       | Pass    |
| NVNT      | ac20 | 5240            | 8.523           | 6.506 | 10.64     | 14.58       | Pass    |
| NVNT      | ac40 | 5190            | 5.775           | 1.475 | 7.15      | 14.58       | Pass    |
| NVNT      | ac40 | 5230            | 6.761           | 3.393 | 8.41      | 14.58       | Pass    |
| NVNT      | ac80 | 5210            | 4.164           | 0.900 | 5.84      | 14.58       | Pass    |

### Test Graphs

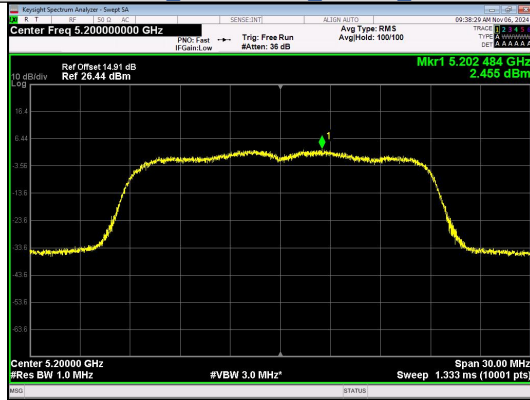




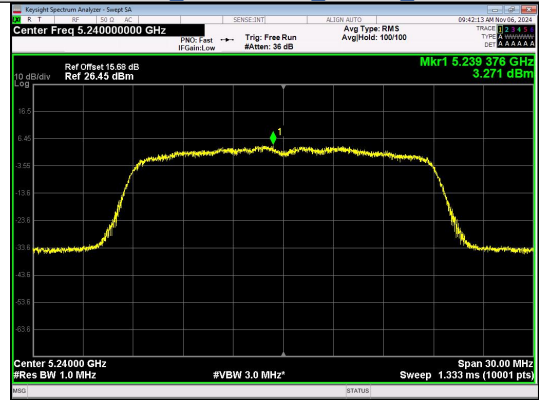
IEEE 802.11a\_Channel 48\_20MHz\_Antenna 3



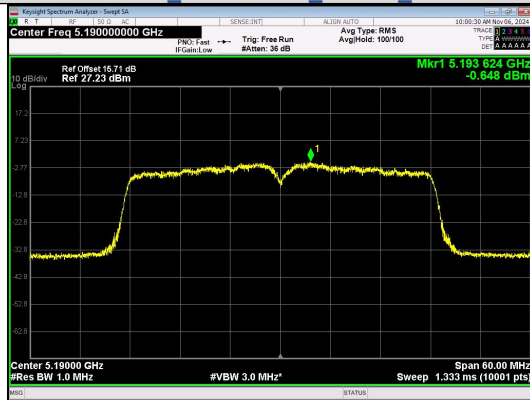
IEEE 802.11n\_Channel 36\_20MHz\_Antenna 3



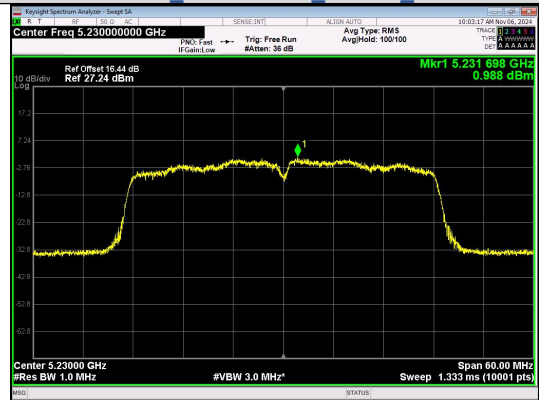
IEEE 802.11n\_Channel 40\_20MHz\_Antenna 3



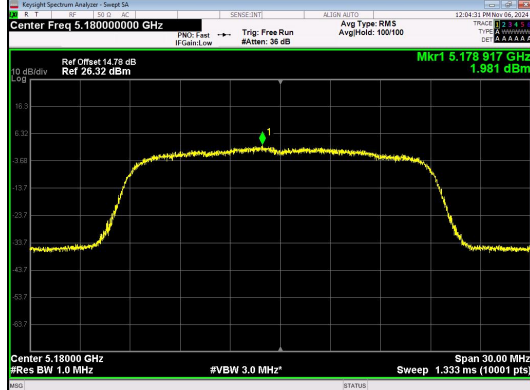
IEEE 802.11n\_Channel 48\_20MHz\_Antenna 3



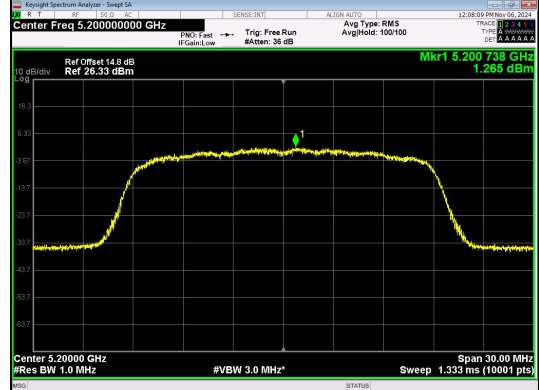
IEEE 802.11n\_Channel 38\_40MHz\_Antenna 3



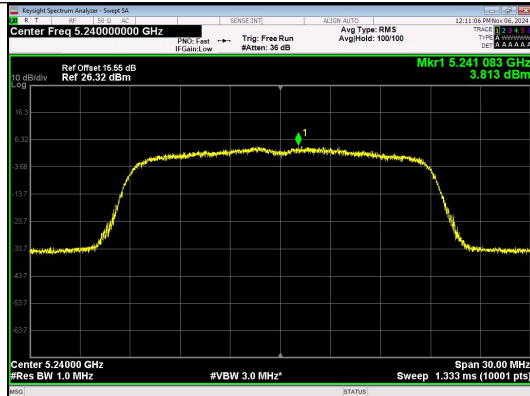
IEEE 802.11n\_Channel 46\_40MHz\_Antenna 3



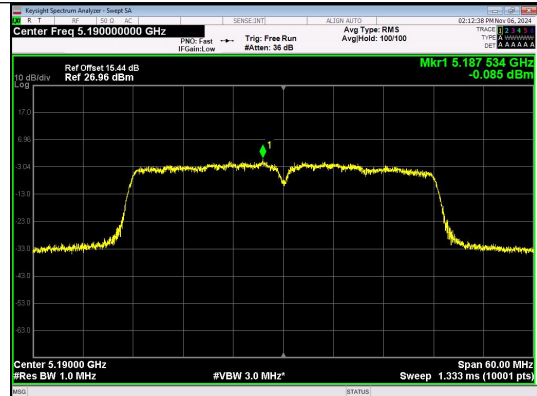
IEEE 802.11ac\_Channel 36\_20MHz\_Antenna 3



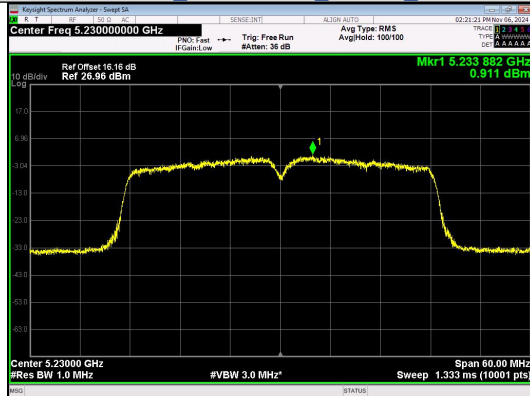
IEEE 802.11ac\_Channel 40\_20MHz\_Antenna 3



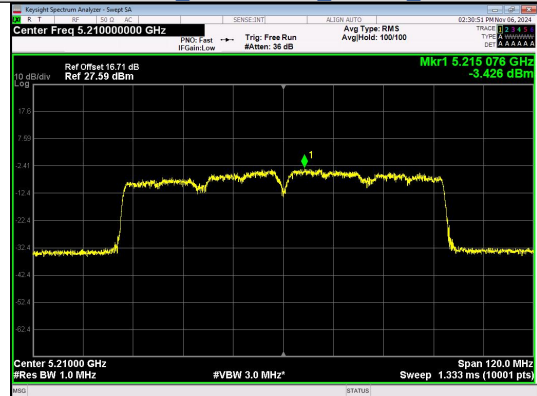
IEEE 802.11ac\_Channel 48\_20MHz\_Antenna 3



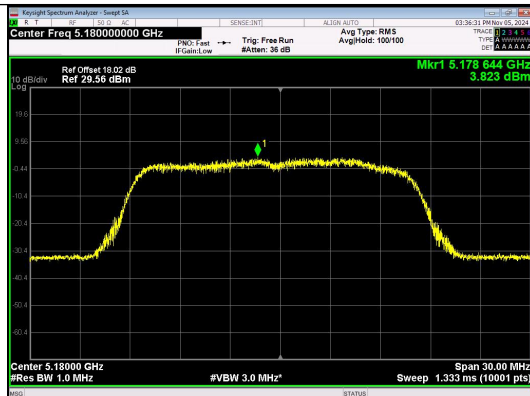
IEEE 802.11ac\_Channel 38\_40MHz\_Antenna 3



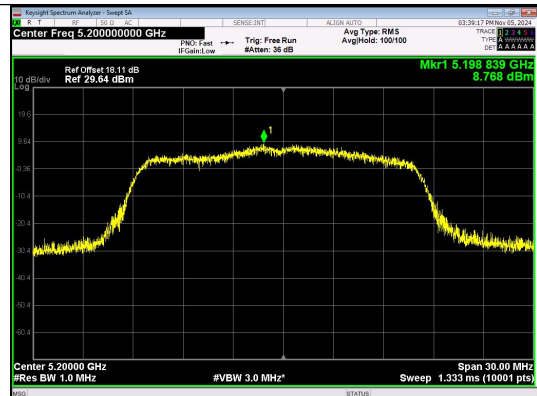
IEEE 802.11ac\_Channel 46\_40MHz\_Antenna 3



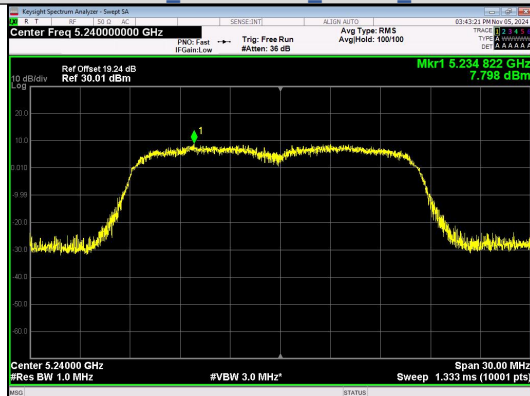
IEEE 802.11ac\_Channel 42\_80MHz\_Antenna 3



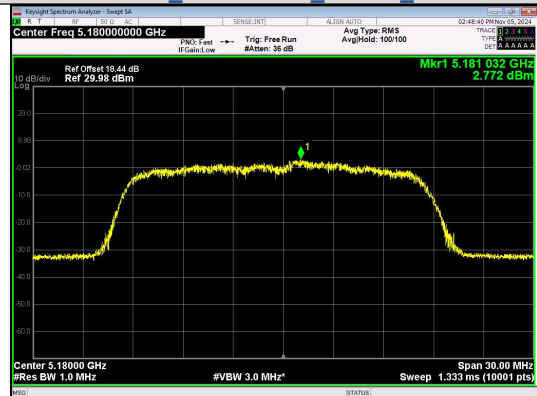
IEEE 802.11a\_Channel 36\_20MHz\_Antenna 4



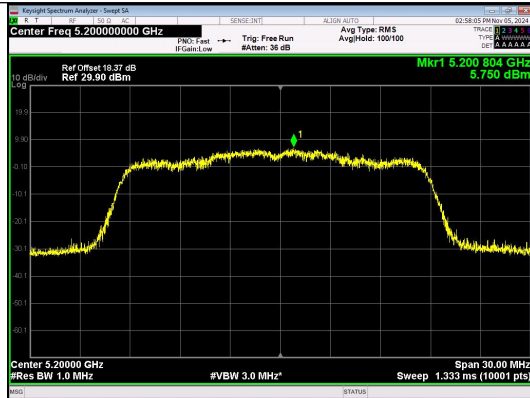
IEEE 802.11a\_Channel 40\_20MHz\_Antenna 4



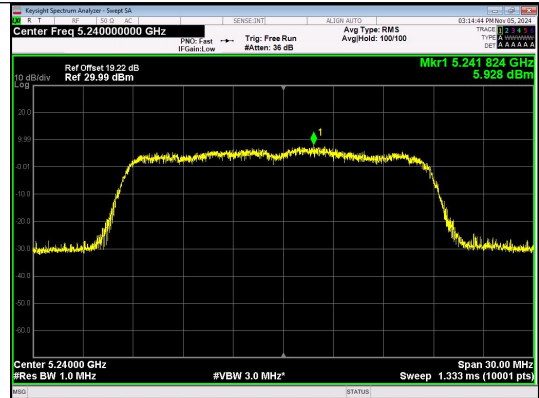
IEEE 802.11a\_Channel 48\_20MHz\_Antenna 4



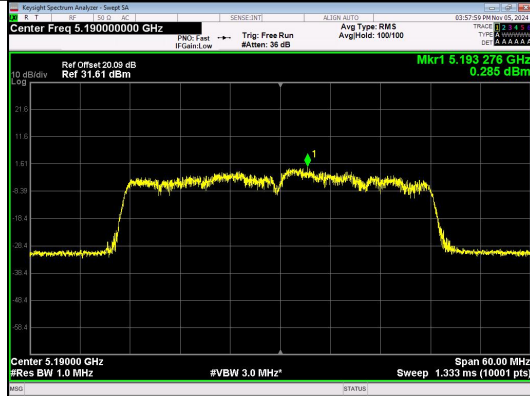
IEEE 802.11n\_Channel 36\_20MHz\_Antenna 4



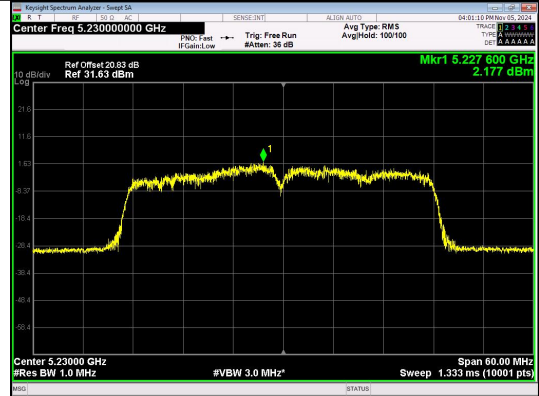
IEEE 802.11n Channel 40 20MHz Antenna 4



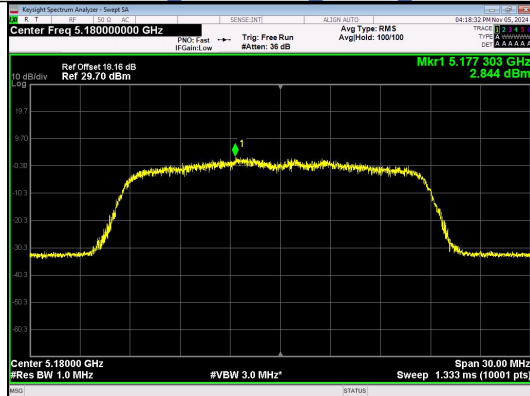
IEEE 802.11n Channel 48 20MHz Antenna 4



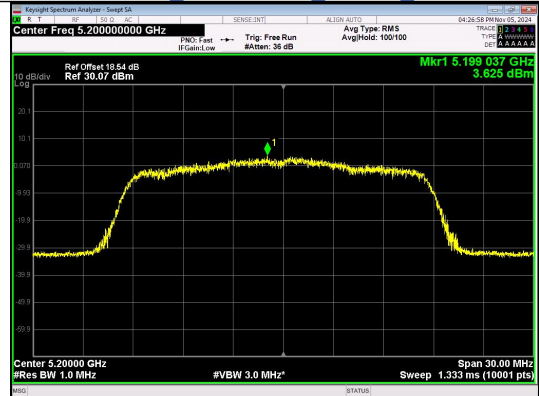
IEEE 802.11n Channel 38 40MHz Antenna 4



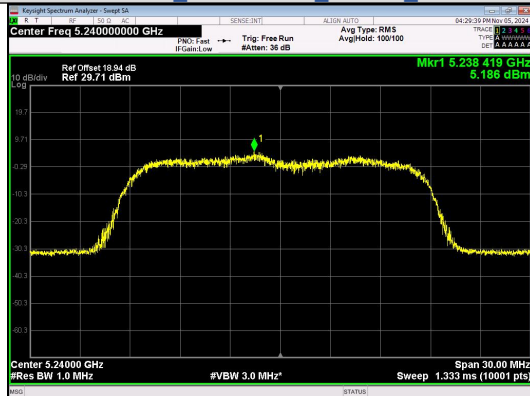
IEEE 802.11n Channel 46 40MHz Antenna 4



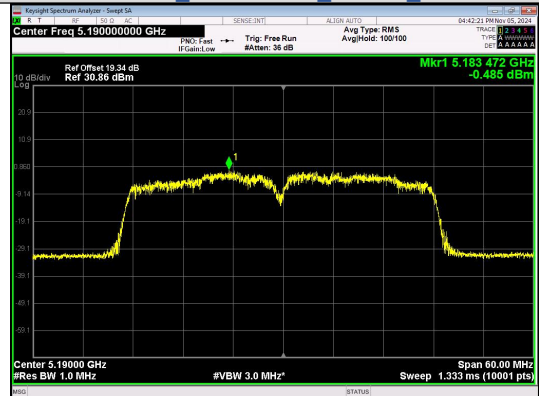
IEEE 802.11ac Channel 36 20MHz Antenna 4



IEEE 802.11ac Channel 40 20MHz Antenna 4



IEEE 802.11ac Channel 48 20MHz Antenna 4



IEEE 802.11ac Channel 38 40MHz Antenna 4