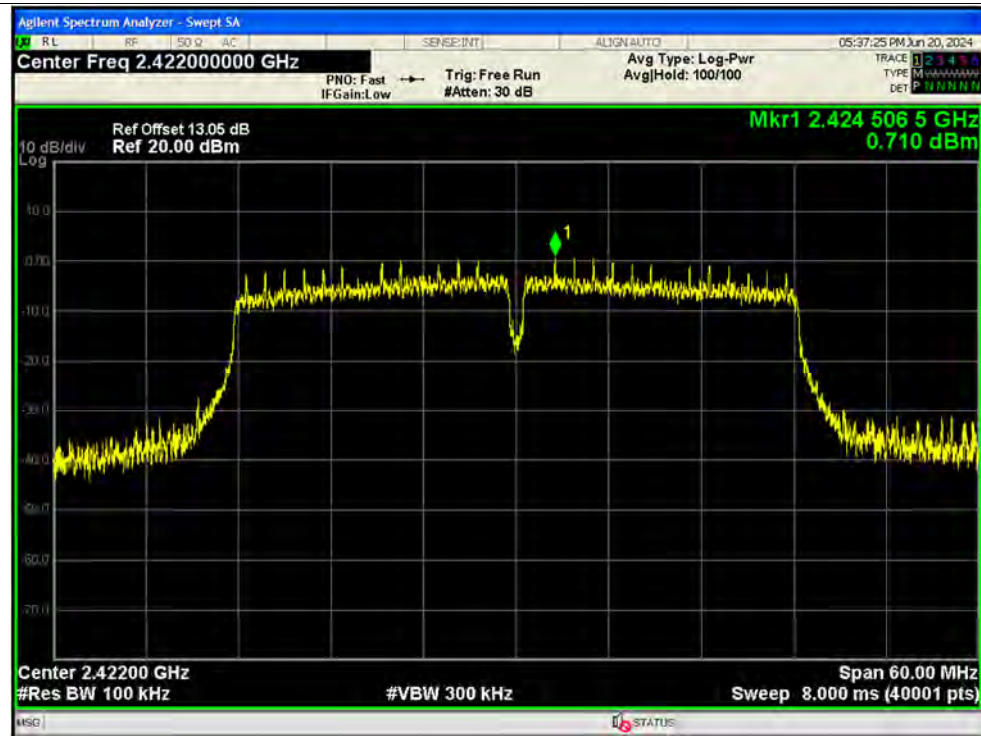
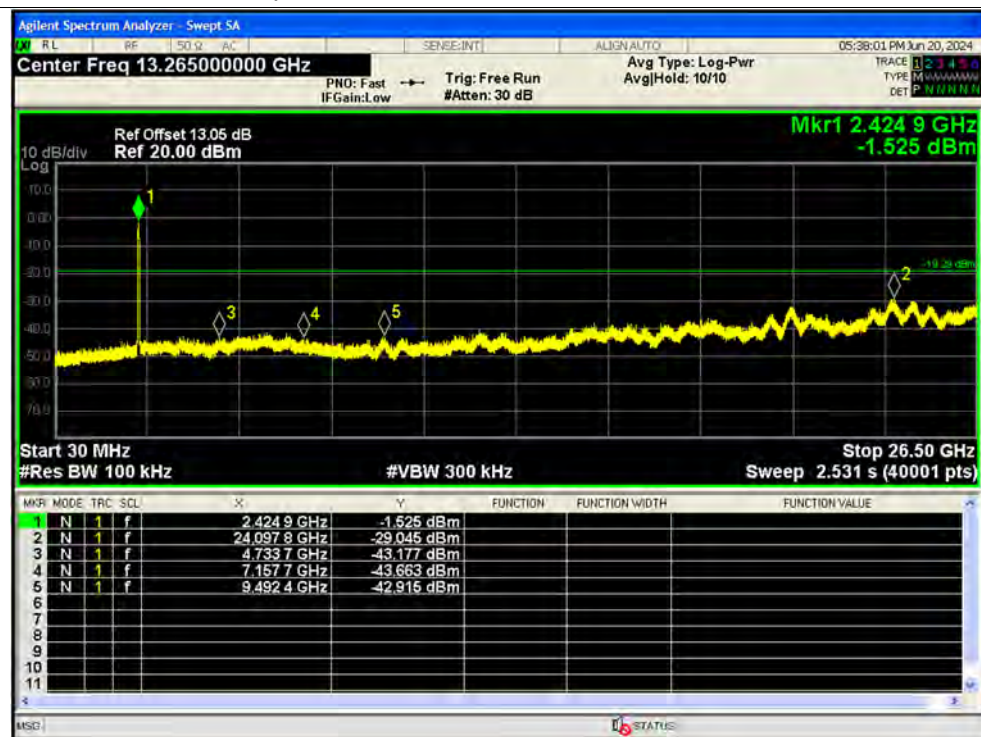


## Tx. Spurious NVNT n40 2422MHz Ant1 Ref



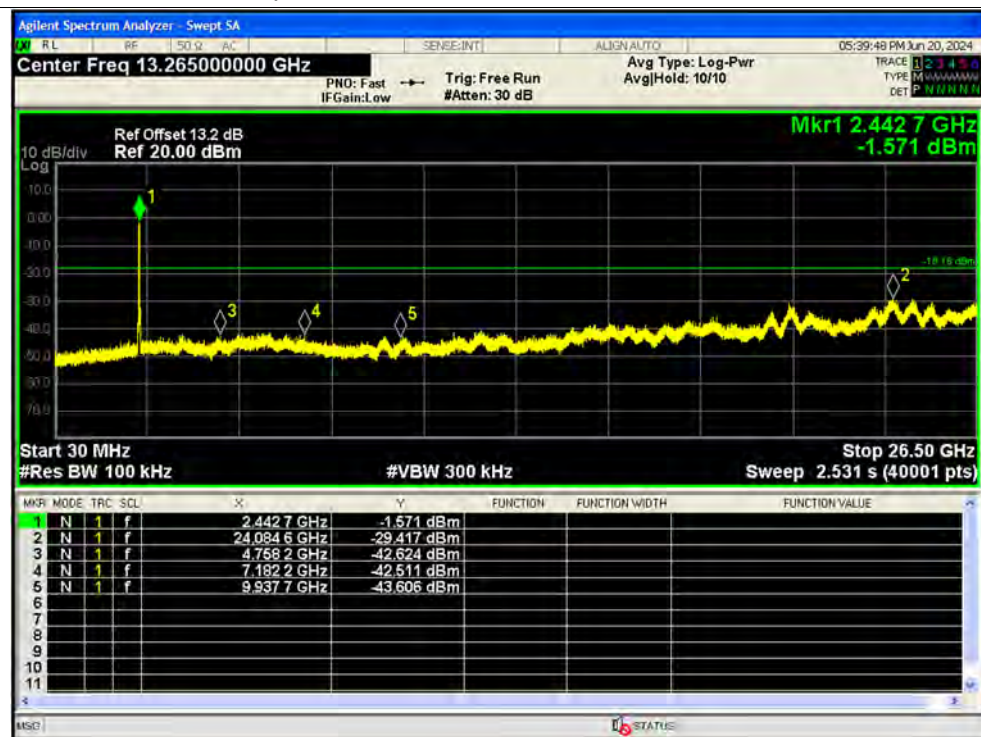
## Tx. Spurious NVNT n40 2422MHz Ant1 Emission



## Tx. Spurious NVNT n40 2442MHz Ant1 Ref



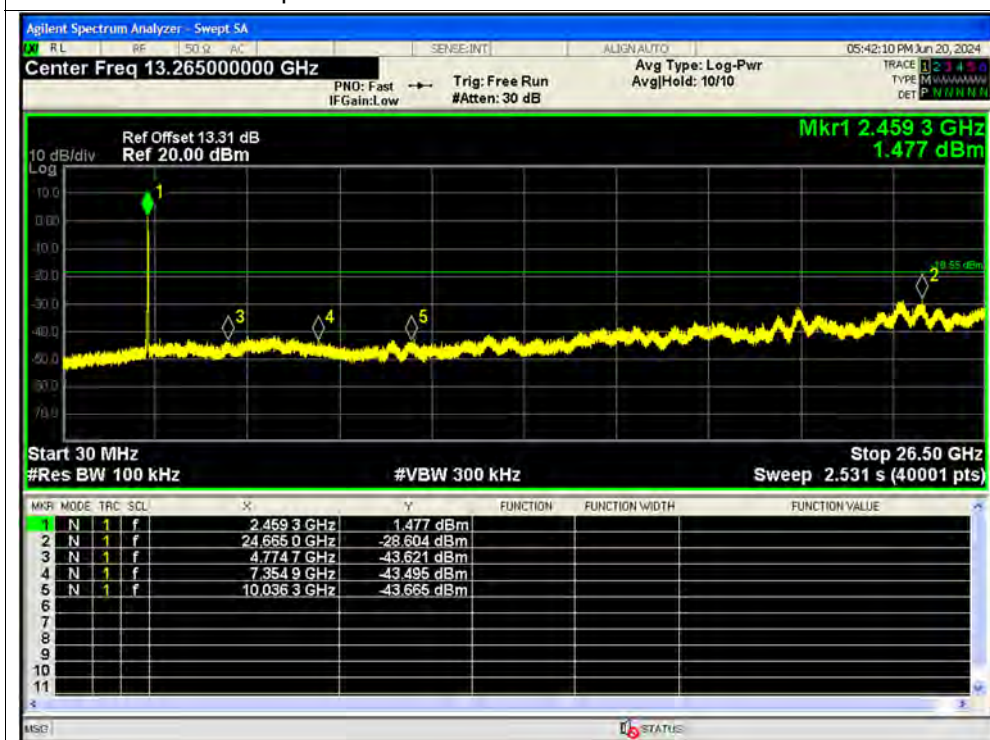
## Tx. Spurious NVNT n40 2442MHz Ant1 Emission



## Tx. Spurious NVNT n40 2462MHz Ant1 Ref



## Tx. Spurious NVNT n40 2462MHz Ant1 Emission

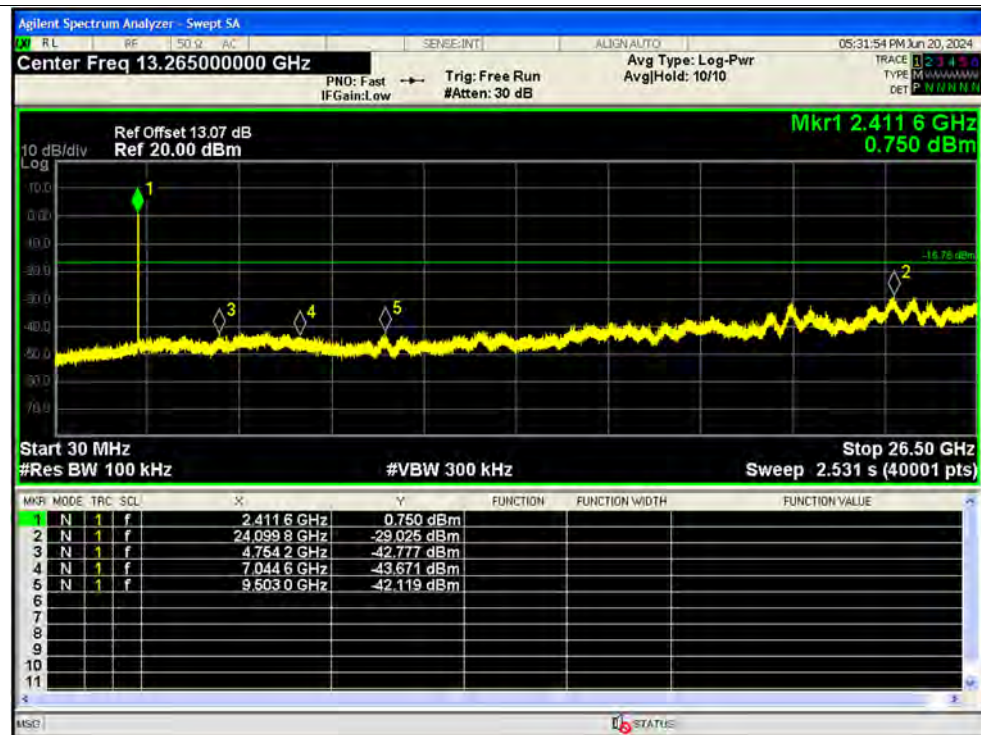




## Tx. Spurious NVNT ac20 2412MHz Ant1 Ref



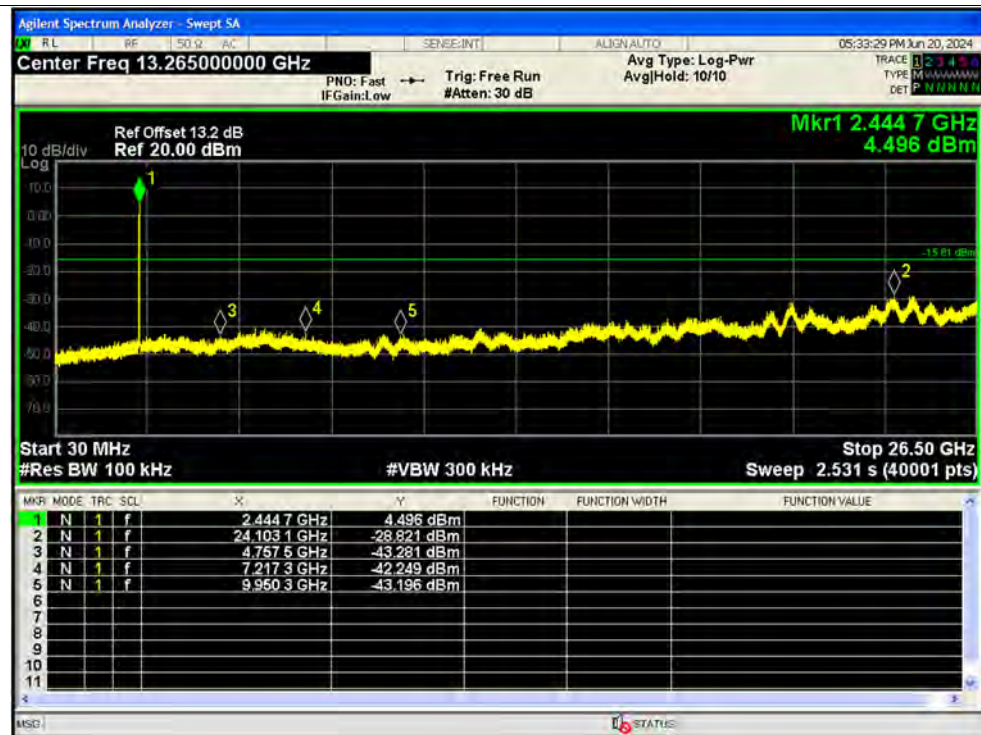
## Tx. Spurious NVNT ac20 2412MHz Ant1 Emission



## Tx. Spurious NVNT ac20 2442MHz Ant1 Ref



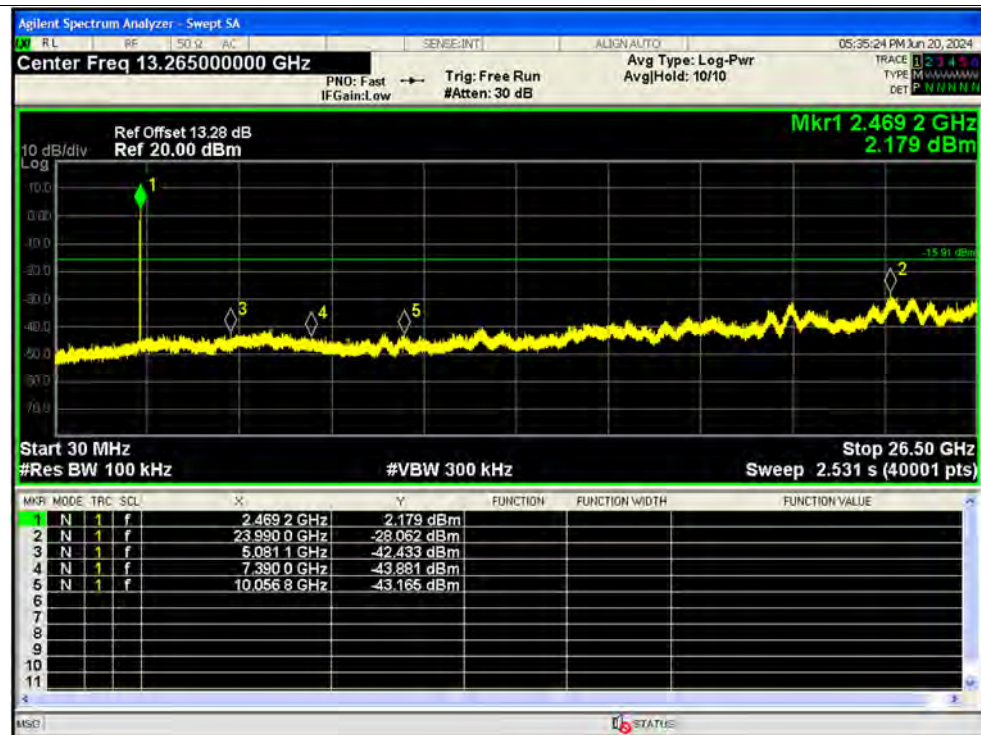
## Tx. Spurious NVNT ac20 2442MHz Ant1 Emission



## Tx. Spurious NVNT ac20 2472MHz Ant1 Ref

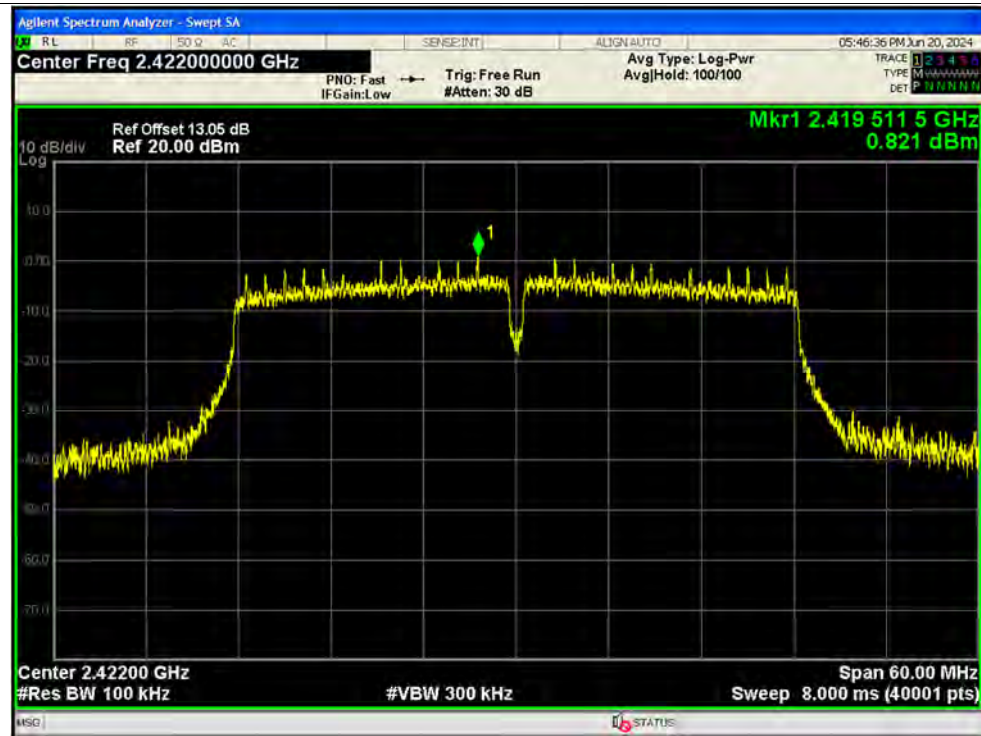


## Tx. Spurious NVNT ac20 2472MHz Ant1 Emission

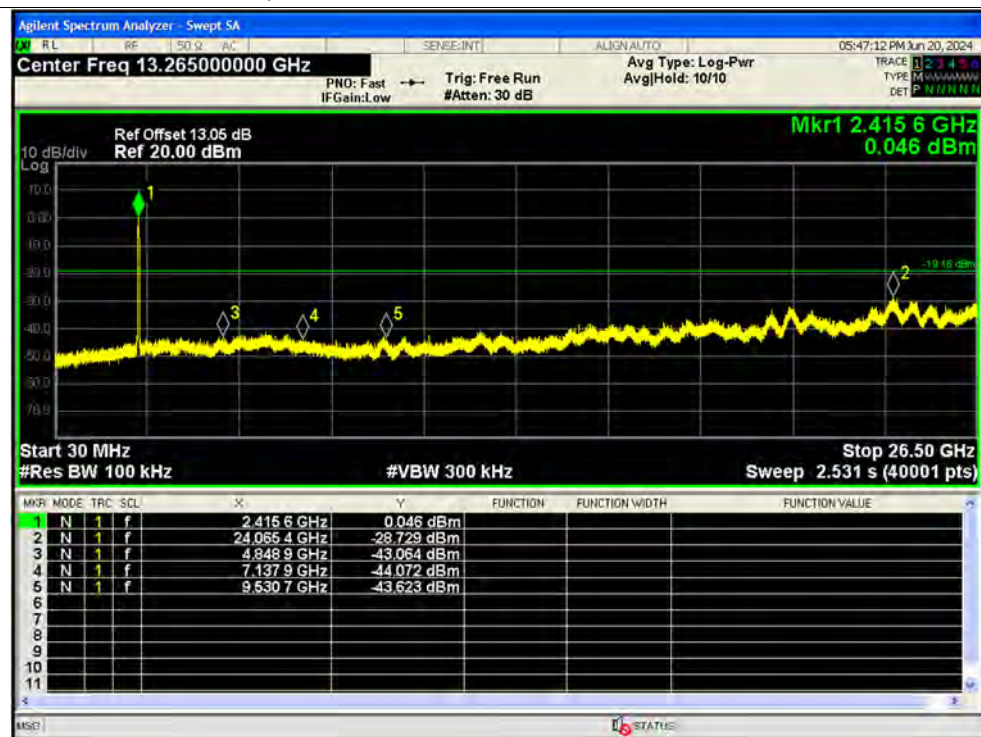




## Tx. Spurious NVNT ac40 2422MHz Ant1 Ref



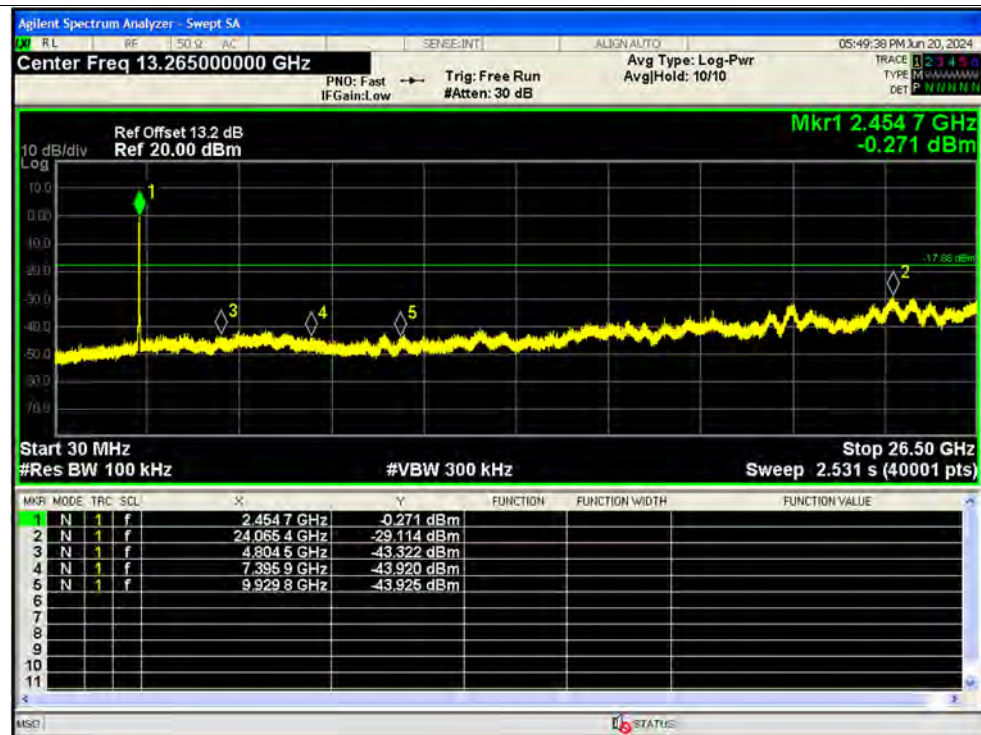
## Tx. Spurious NVNT ac40 2422MHz Ant1 Emission



## Tx. Spurious NVNT ac40 2442MHz Ant1 Ref



## Tx. Spurious NVNT ac40 2442MHz Ant1 Emission

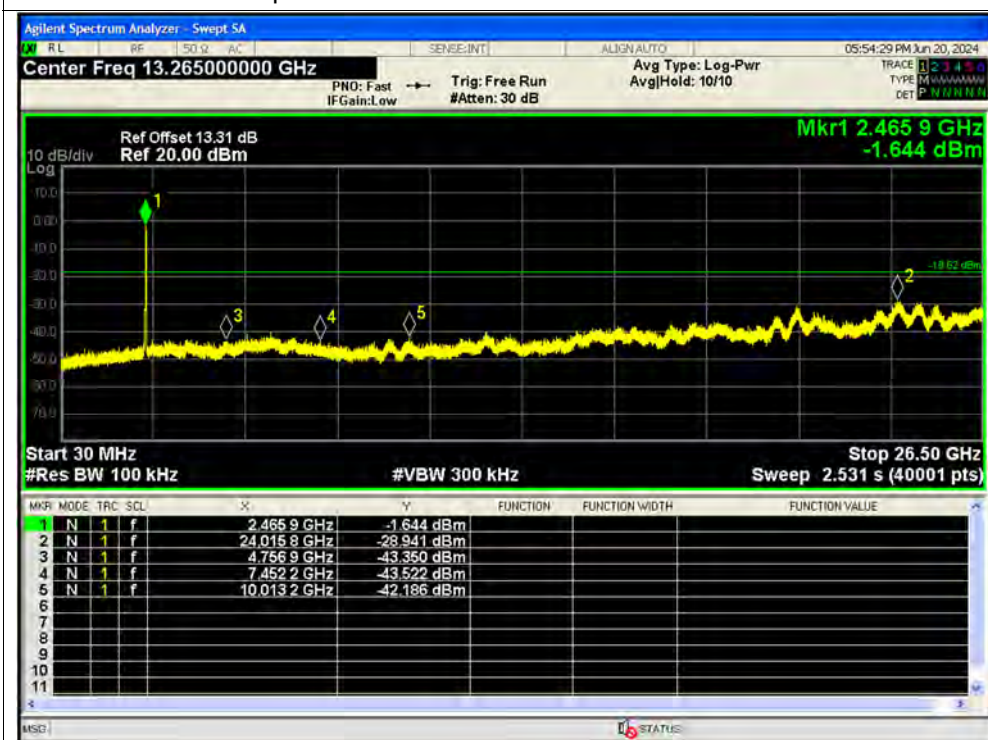




## Tx. Spurious NVNT ac40 2462MHz Ant1 Ref



## Tx. Spurious NVNT ac40 2462MHz Ant1 Emission



**A.6. Band Edge**

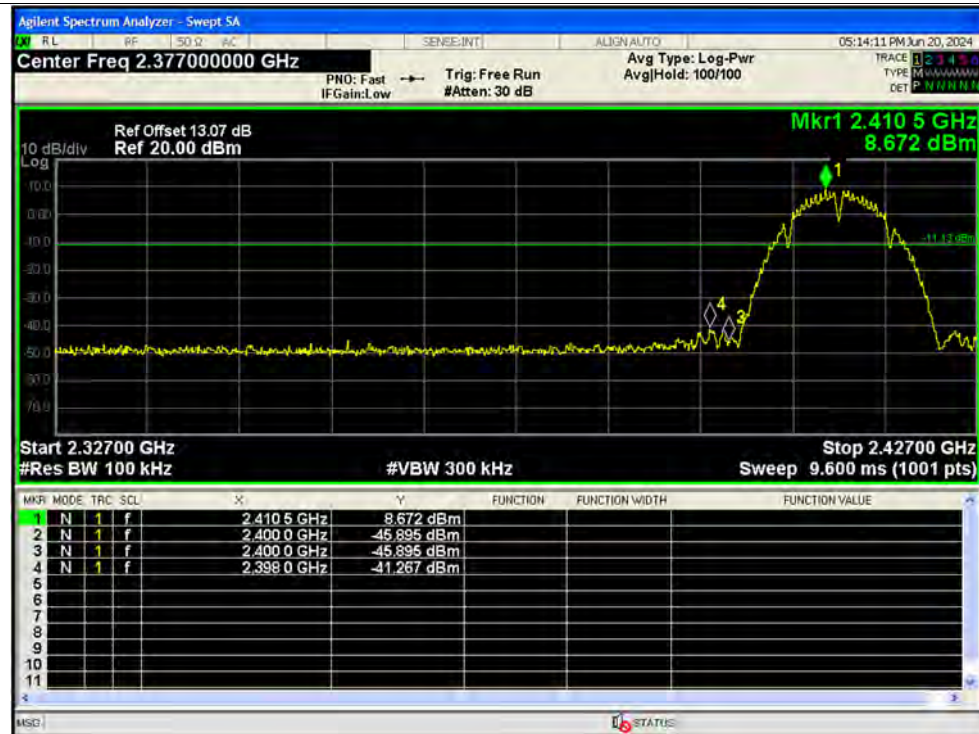
| Condition | Mode | Frequency (MHz) | Antenna | Max Value (dBc) | Limit (dBc) | Verdict |
|-----------|------|-----------------|---------|-----------------|-------------|---------|
| NVNT      | b    | 2412            | Ant1    | -50.13          | -20         | Pass    |
| NVNT      | b    | 2472            | Ant1    | -48.28          | -20         | Pass    |
| NVNT      | g    | 2412            | Ant1    | -33.33          | -20         | Pass    |
| NVNT      | g    | 2472            | Ant1    | -33.78          | -20         | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -32.5           | -20         | Pass    |
| NVNT      | n20  | 2472            | Ant1    | -33.89          | -20         | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -33.27          | -20         | Pass    |
| NVNT      | n40  | 2462            | Ant1    | -35.17          | -20         | Pass    |
| NVNT      | ac20 | 2412            | Ant1    | -32.09          | -20         | Pass    |
| NVNT      | ac20 | 2472            | Ant1    | -32.6           | -20         | Pass    |
| NVNT      | ac40 | 2422            | Ant1    | -34.42          | -20         | Pass    |
| NVNT      | ac40 | 2462            | Ant1    | -36.31          | -20         | Pass    |

## Test Graphs

## Band Edge NVNT b 2412MHz Ant1 Ref



## Band Edge NVNT b 2412MHz Ant1 Emission

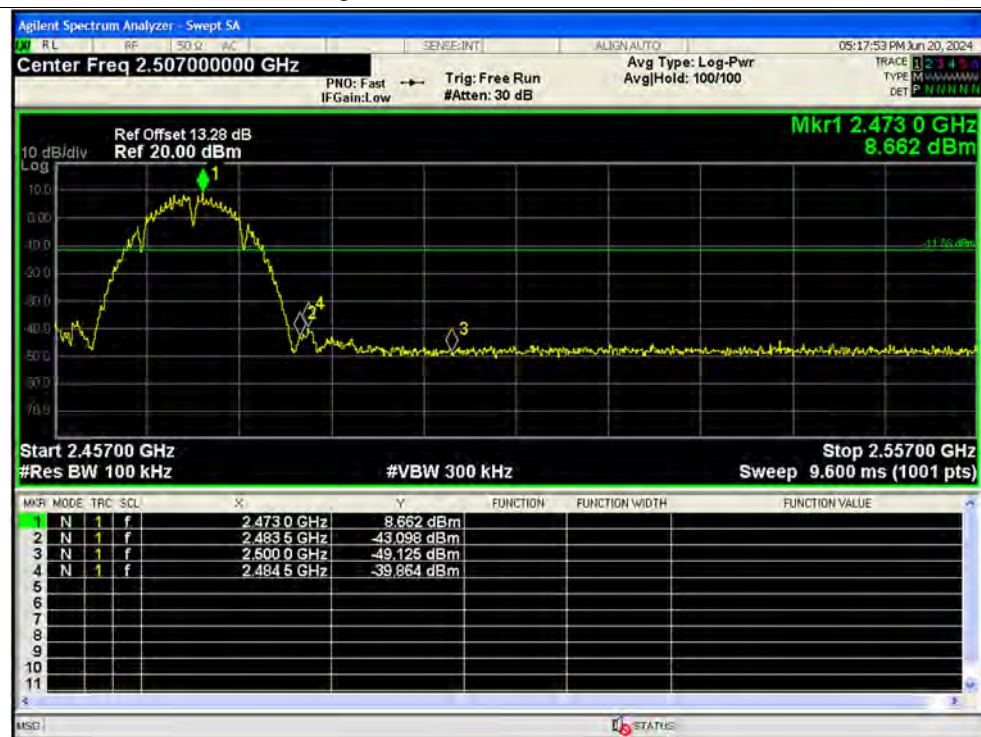




### Band Edge NVNT b 2472MHz Ant1 Ref



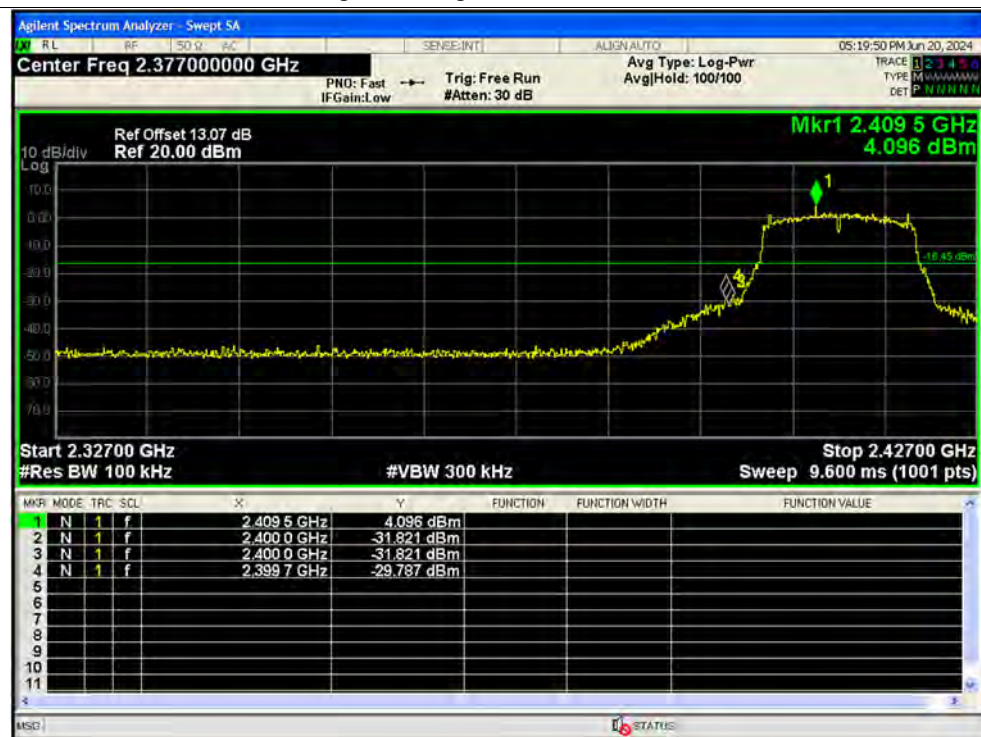
### Band Edge NVNT b 2472MHz Ant1 Emission



### Band Edge NVNT g 2412MHz Ant1 Ref



### Band Edge NVNT g 2412MHz Ant1 Emission



### Band Edge NVNT g 2472MHz Ant1 Ref



### Band Edge NVNT g 2472MHz Ant1 Emission

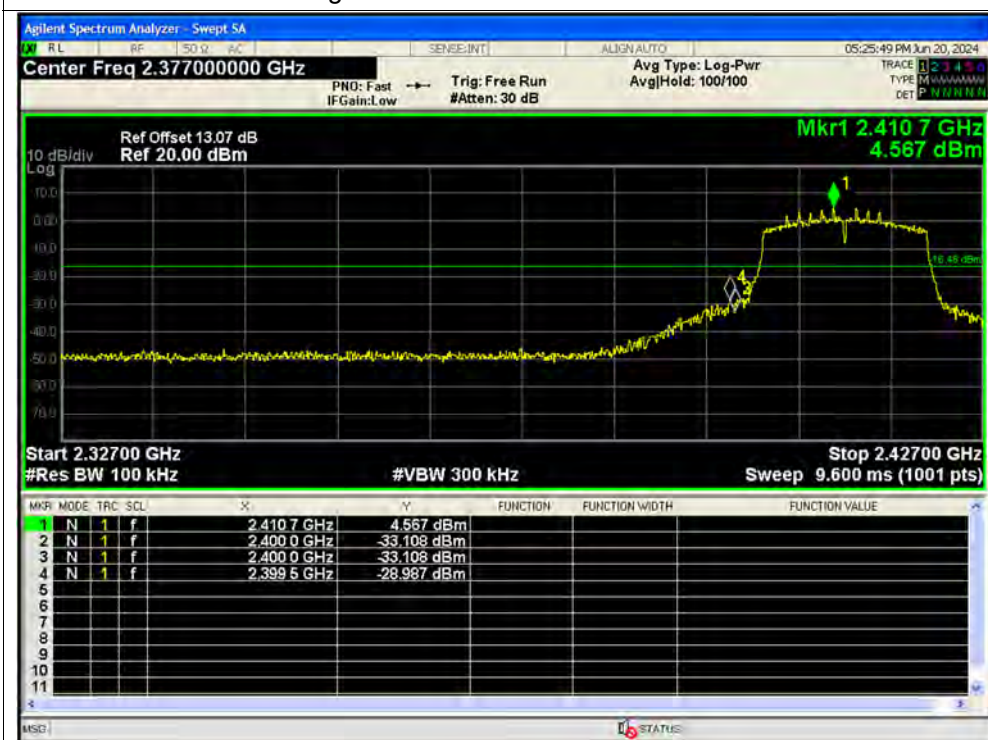




### Band Edge NVNT n20 2412MHz Ant1 Ref



### Band Edge NVNT n20 2412MHz Ant1 Emission



### Band Edge NVNT n20 2472MHz Ant1 Ref



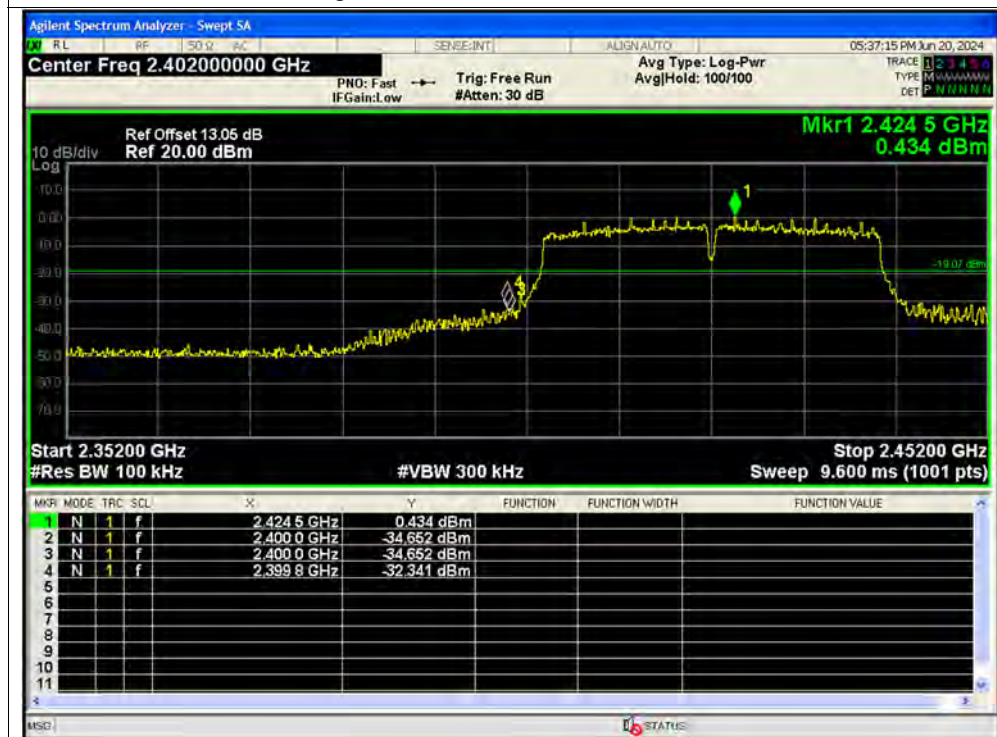
### Band Edge NVNT n20 2472MHz Ant1 Emission



### Band Edge NVNT n40 2422MHz Ant1 Ref



### Band Edge NVNT n40 2422MHz Ant1 Emission





### Band Edge NVNT n40 2462MHz Ant1 Ref



### Band Edge NVNT n40 2462MHz Ant1 Emission



### Band Edge NVNT ac20 2412MHz Ant1 Ref



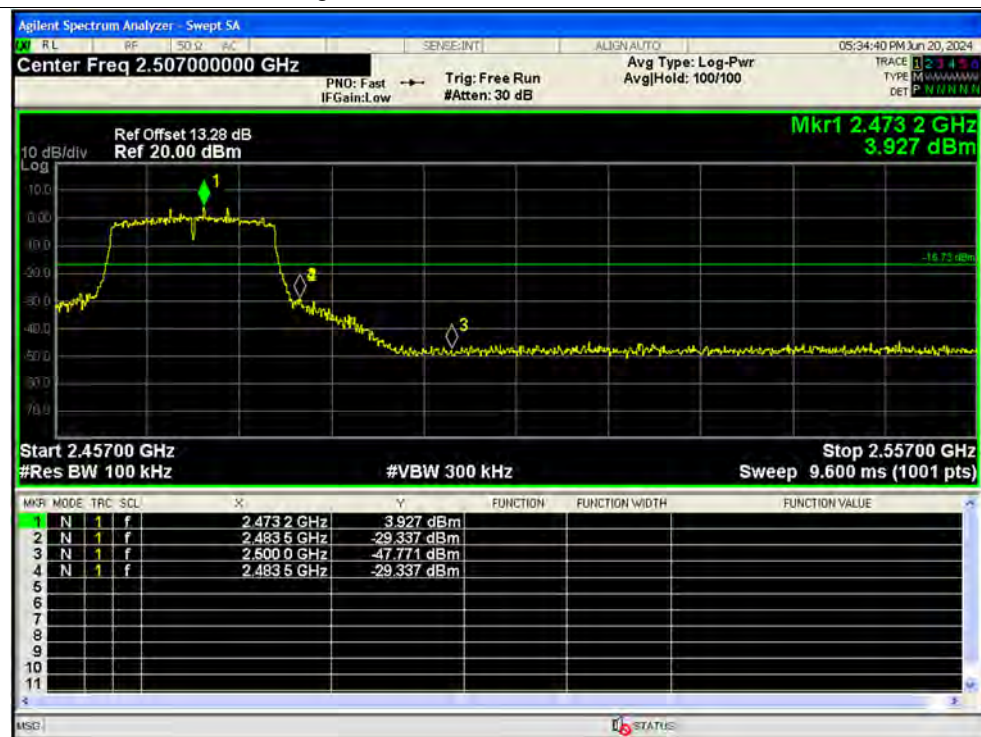
### Band Edge NVNT ac20 2412MHz Ant1 Emission



### Band Edge NVNT ac20 2472MHz Ant1 Ref



### Band Edge NVNT ac20 2472MHz Ant1 Emission





### Band Edge NVNT ac40 2422MHz Ant1 Ref



### Band Edge NVNT ac40 2422MHz Ant1 Emission



### Band Edge NVNT ac40 2462MHz Ant1 Ref



### Band Edge NVNT ac40 2462MHz Ant1 Emission



**A.7. Power Spectral Density**

| Condition | Mode | Frequency (MHz) | Antenna | Conducted PSD (dBm/3kHz) | Duty Factor (dB) | Total PSD (dBm/3kHz) | Limit (dBm/3kHz) | Verdict |
|-----------|------|-----------------|---------|--------------------------|------------------|----------------------|------------------|---------|
| NVNT      | b    | 2412            | Ant1    | -4.88                    | 0                | -4.88                | 8                | Pass    |
| NVNT      | b    | 2442            | Ant1    | -5.43                    | 0                | -5.43                | 8                | Pass    |
| NVNT      | b    | 2472            | Ant1    | -5.4                     | 0                | -5.4                 | 8                | Pass    |
| NVNT      | g    | 2412            | Ant1    | -9.77                    | 0                | -9.77                | 8                | Pass    |
| NVNT      | g    | 2442            | Ant1    | -9.84                    | 0                | -9.84                | 8                | Pass    |
| NVNT      | g    | 2472            | Ant1    | -10.17                   | 0                | -10.17               | 8                | Pass    |
| NVNT      | n20  | 2412            | Ant1    | -10.63                   | 0                | -10.63               | 8                | Pass    |
| NVNT      | n20  | 2442            | Ant1    | -9.68                    | 0                | -9.68                | 8                | Pass    |
| NVNT      | n20  | 2472            | Ant1    | -10.45                   | 0                | -10.45               | 8                | Pass    |
| NVNT      | n40  | 2422            | Ant1    | -14.22                   | 0                | -14.22               | 8                | Pass    |
| NVNT      | n40  | 2442            | Ant1    | -13.57                   | 0                | -13.57               | 8                | Pass    |
| NVNT      | n40  | 2462            | Ant1    | -13.48                   | 0                | -13.48               | 8                | Pass    |
| NVNT      | ac20 | 2412            | Ant1    | -10.17                   | 0                | -10.17               | 8                | Pass    |
| NVNT      | ac20 | 2442            | Ant1    | -9.79                    | 0                | -9.79                | 8                | Pass    |
| NVNT      | ac20 | 2472            | Ant1    | -10.75                   | 0                | -10.75               | 8                | Pass    |
| NVNT      | ac40 | 2422            | Ant1    | -13.99                   | 0                | -13.99               | 8                | Pass    |
| NVNT      | ac40 | 2442            | Ant1    | -13.55                   | 0                | -13.55               | 8                | Pass    |
| NVNT      | ac40 | 2462            | Ant1    | -13.94                   | 0                | -13.94               | 8                | Pass    |



## Test Graphs

## PSD NVNT b 2412MHz Ant1



## PSD NVNT b 2442MHz Ant1



## PSD NVNT b 2472MHz Ant1



## PSD NVNT g 2412MHz Ant1



## PSD NVNT g 2442MHz Ant1

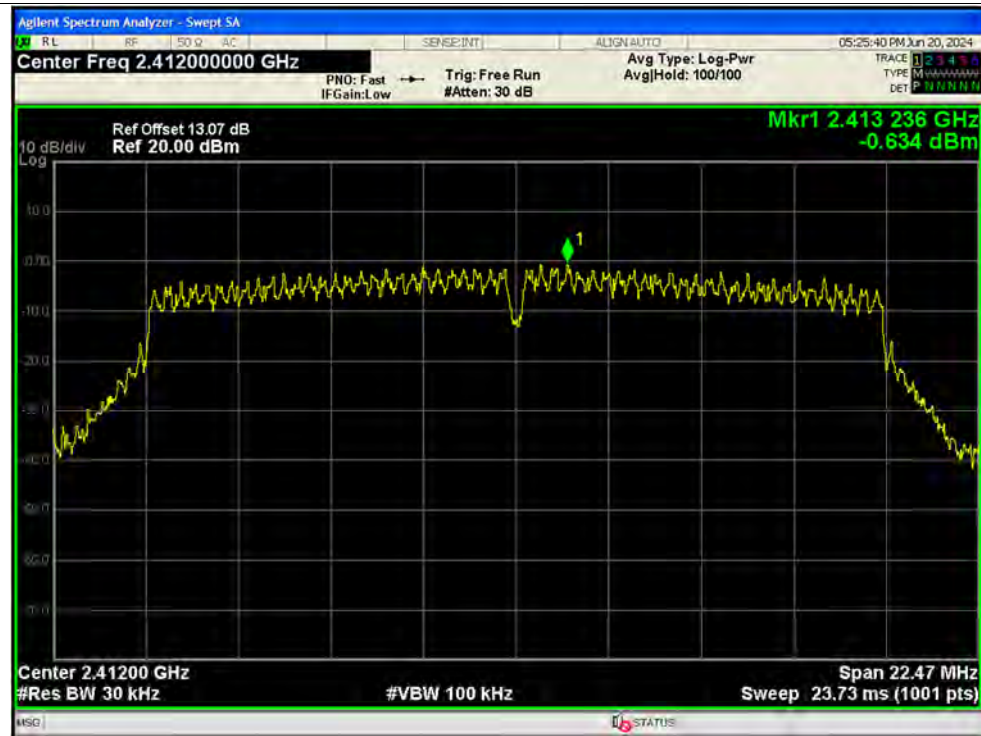


## PSD NVNT g 2472MHz Ant1





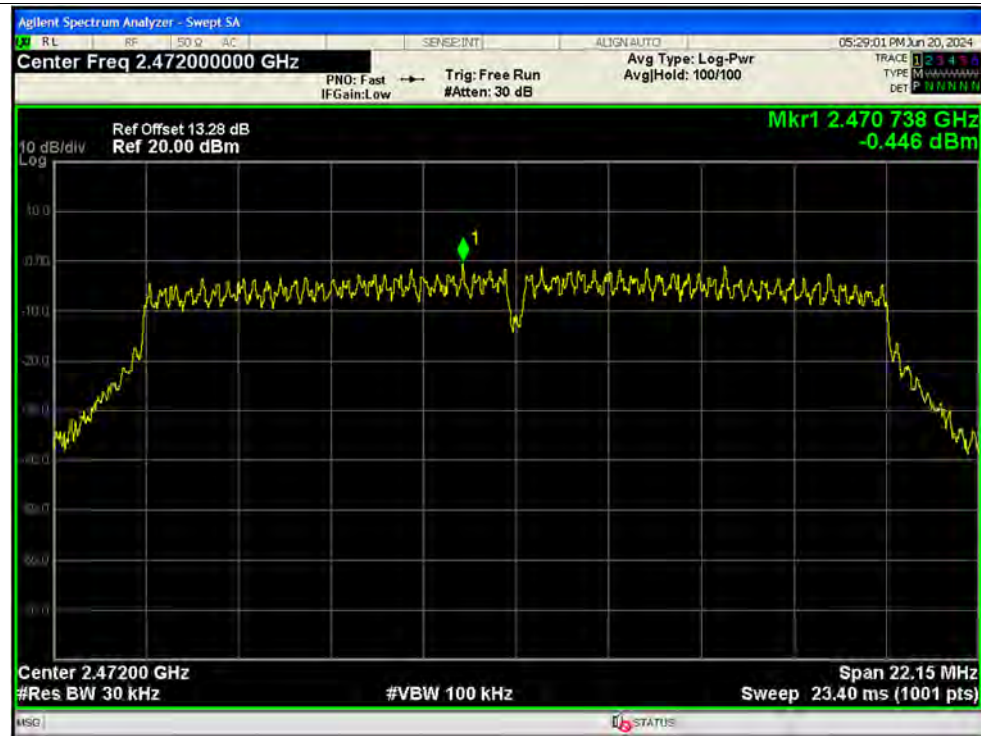
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2442MHz Ant1



PSD NVNT n20 2472MHz Ant1



PSD NVNT n40 2422MHz Ant1





## PSD NVNT n40 2442MHz Ant1

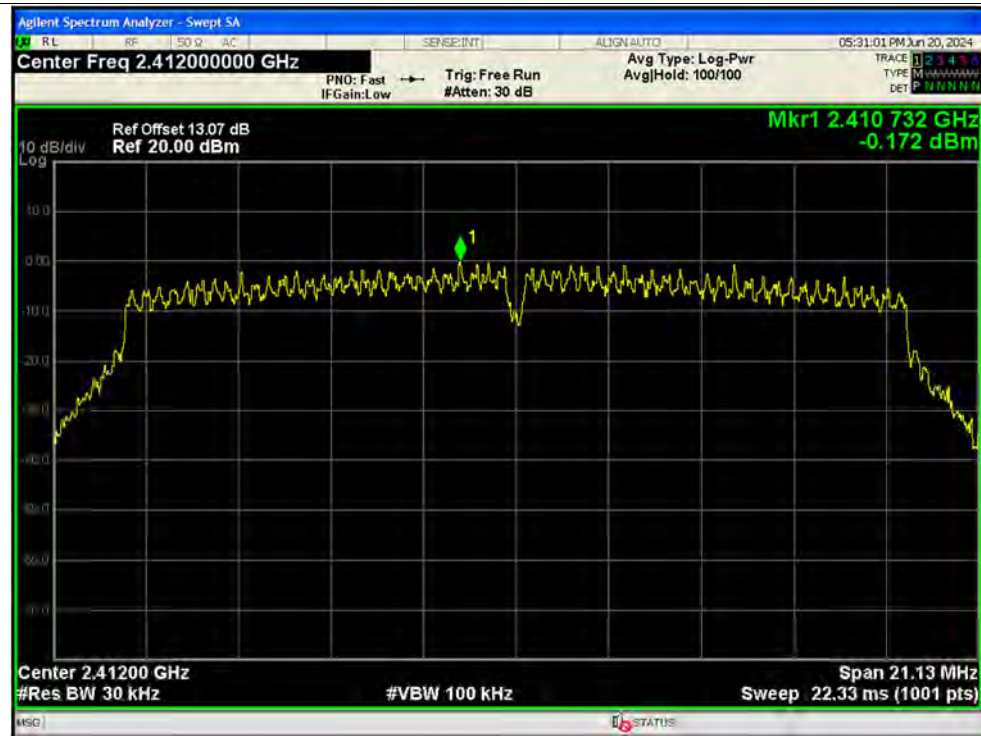


## PSD NVNT n40 2462MHz Ant1





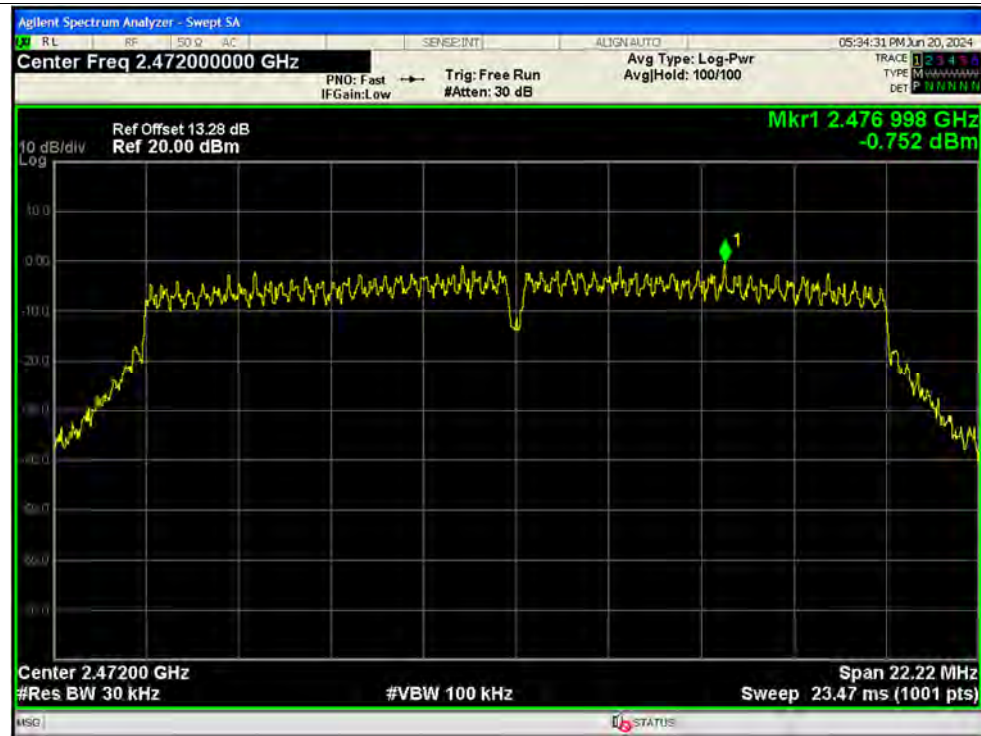
PSD NVNT ac20 2412MHz Ant1



PSD NVNT ac20 2442MHz Ant1



PSD NVNT ac20 2472MHz Ant1



PSD NVNT ac40 2422MHz Ant1



PSD NVNT ac40 2442MHz Ant1



PSD NVNT ac40 2462MHz Ant1







### A.8. Conducted Emission

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

**Note:** Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

#### A. Test Setup:

Test Mode: EUT + Adapter + USB Cable +WIFI TX

Test voltage: AC 120V/60Hz

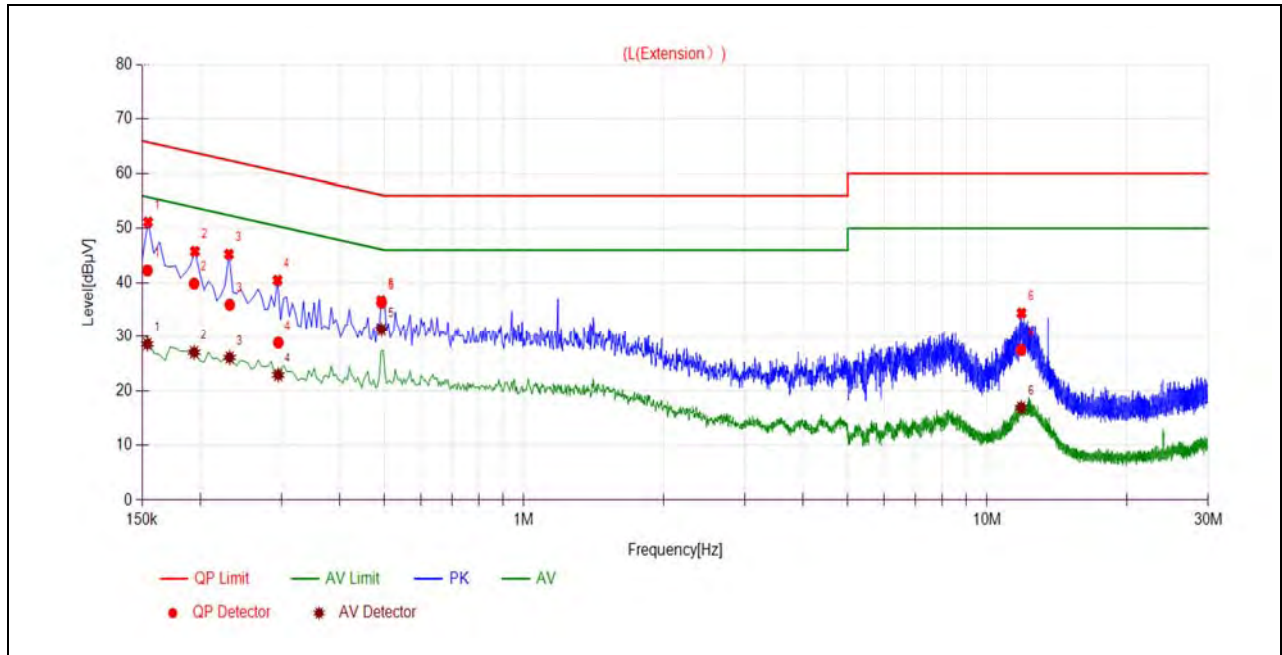
The measurement results are obtained as below:

$$E \text{ [dB}\mu\text{V]} = U_R + L_{\text{Cable loss}} \text{ [dB]} + A_{\text{Factor}}$$

$U_R$ : Receiver Reading

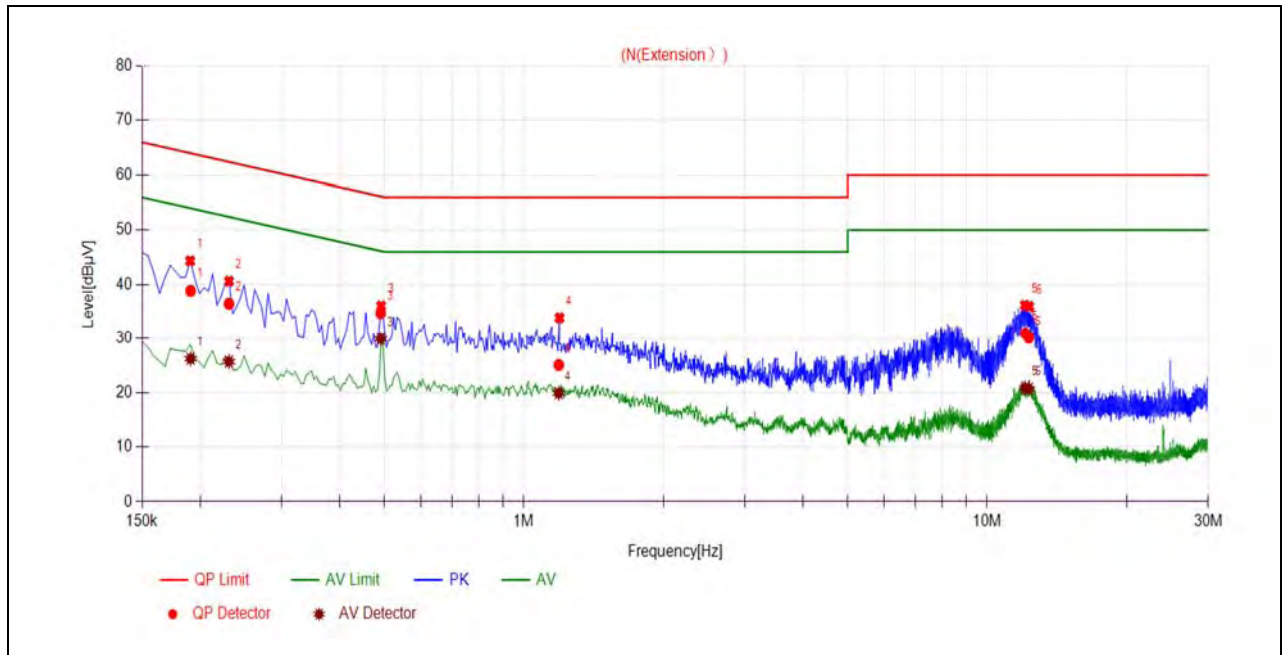
$A_{\text{Factor}}$ : Voltage division factor of LISN

## B. Test Plot:



(L Phase)

| No. | Fre.<br>(MHz) | Emission Level (dBμV) |         | Limit (dBμV) |         | Power-line | Verdict |
|-----|---------------|-----------------------|---------|--------------|---------|------------|---------|
|     |               | Quai-peak             | Average | Quai-peak    | Average |            |         |
| 1   | 0.1540        | 42.26                 | 28.56   | 65.78        | 55.78   | Line       | PASS    |
| 2   | 0.1942        | 39.84                 | 27.04   | 63.86        | 53.86   |            | PASS    |
| 3   | 0.2318        | 35.95                 | 26.08   | 62.38        | 52.38   |            | PASS    |
| 4   | 0.2951        | 28.82                 | 22.86   | 60.38        | 50.38   |            | PASS    |
| 5   | 0.4929        | 36.30                 | 31.31   | 56.12        | 46.12   |            | PASS    |
| 6   | 11.8431       | 27.45                 | 16.89   | 60.00        | 50.00   |            | PASS    |



(N Phase)

| No. | Fre.<br>(MHz) | Emission Level (dBμV) |         | Limit (dBμV) |         | Power-line | Verdict |
|-----|---------------|-----------------------|---------|--------------|---------|------------|---------|
|     |               | Quai-peak             | Average | Quai-peak    | Average |            |         |
| 1   | 0.1908        | 38.86                 | 26.22   | 64.00        | 54.00   | Neutral    | PASS    |
| 2   | 0.2309        | 36.48                 | 25.68   | 62.42        | 52.42   |            | PASS    |
| 3   | 0.4908        | 34.75                 | 29.92   | 56.16        | 46.16   |            | PASS    |
| 4   | 1.1889        | 25.06                 | 19.87   | 56.00        | 46.00   |            | PASS    |
| 5   | 12.0839       | 30.97                 | 20.83   | 60.00        | 50.00   |            | PASS    |
| 6   | 12.3033       | 30.13                 | 20.68   | 60.00        | 50.00   |            | PASS    |





### A.9. Restricted Frequency Bands

The lowest and highest channels are tested to verify the Restricted Frequency Bands.

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

$A_T$ : Total correction Factor except Antenna

$U_R$ : Receiver Reading

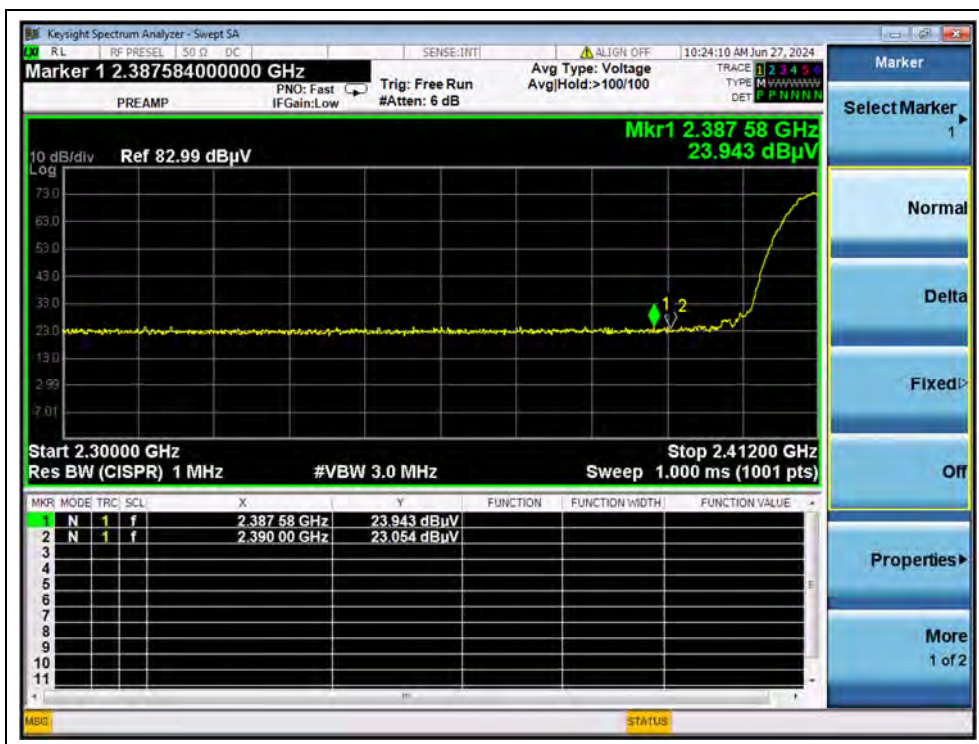
$G_{\text{preamp}}$ : Preamplifier Gain

$A_{\text{Factor}}$ : Antenna Factor at 3m

Note: Restricted Frequency Bands were performed when antenna was at vertical and horizontal polarity, and only the worse test condition (vertical) was recorded in this test report.

#### 802.11b Mode

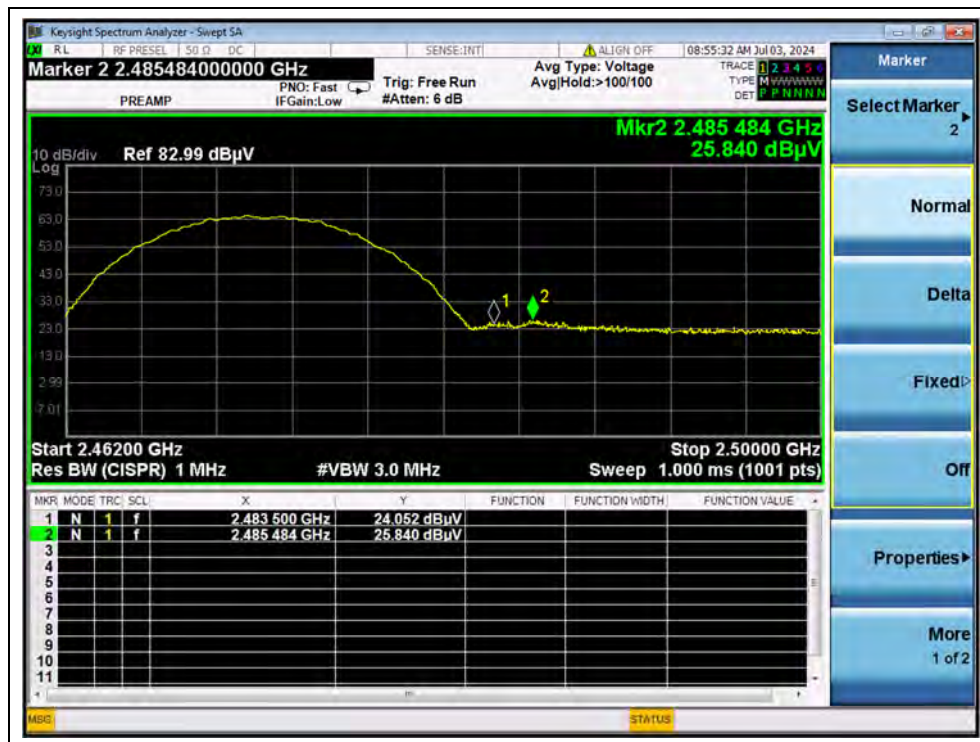
| Channel | Frequency<br>(MHz) | Detector | Receiver<br>Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{\text{Factor}}$<br>(dB@3m) | Max.<br>Emission<br>E<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|--------------------|----------|----------------------------------------------|---------------|--------------------------------|-----------------------------------------|-------------------------|---------|
|         |                    | PK/ AV   |                                              |               |                                |                                         |                         |         |
| 1       | 2387.58            | PK       | 23.94                                        | 6.74          | 27.20                          | 57.88                                   | 74                      | PASS    |
| 1       | 2390.00            | AV       | 12.34                                        | 6.74          | 27.20                          | 46.28                                   | 54                      | PASS    |
| 13      | 2485.48            | PK       | 25.84                                        | 6.74          | 27.20                          | 59.78                                   | 74                      | PASS    |
| 13      | 2485.71            | AV       | 16.66                                        | 6.74          | 27.20                          | 50.60                                   | 54                      | PASS    |



(PEAK, Channel 1, 802.11b)



(AVERAGE, Channel 1, 802.11b)



(PEAK, Channel 13, 802.11b)



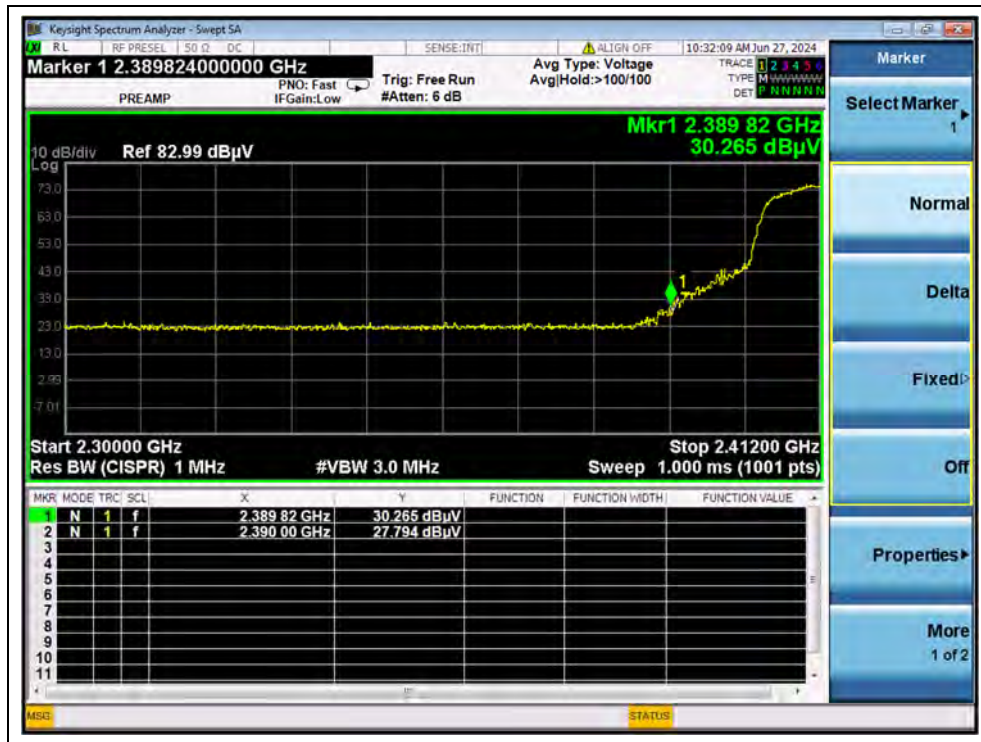
(AVERAGE, Channel 13, 802.11b)



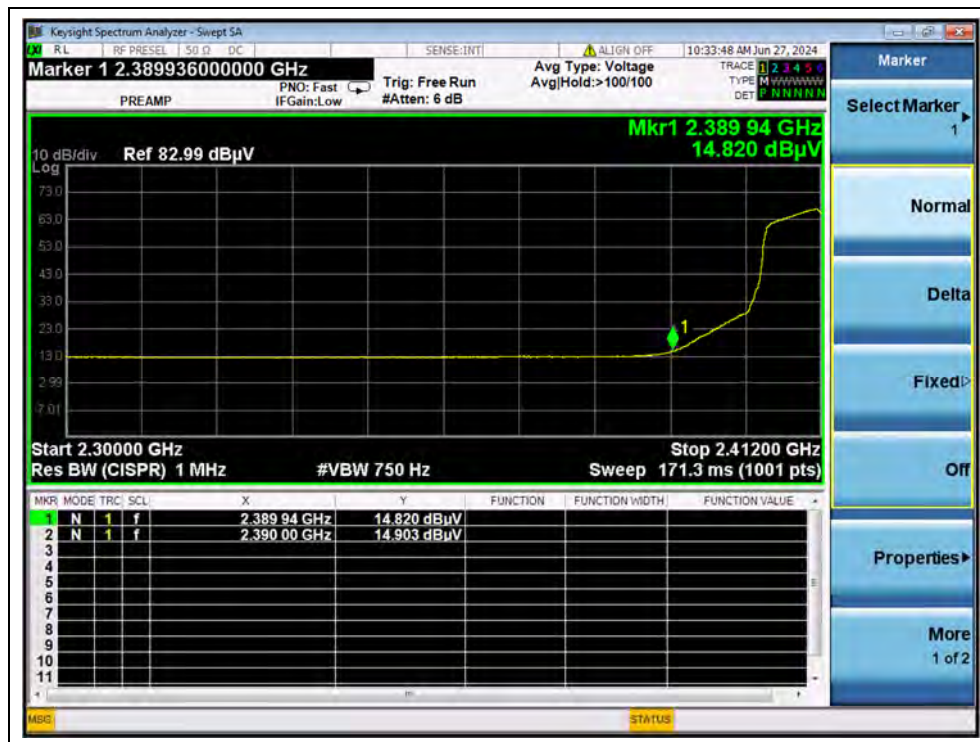


**802.11g Mode**

| Channel | Frequency (MHz) | Detector | Receiver Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max. Emission<br>$E$<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|-----------------|----------|-------------------------------------------|---------------|-------------------------|----------------------------------------|-------------------------|---------|
|         |                 | PK/ AV   |                                           |               |                         |                                        |                         |         |
| 1       | 2389.82         | PK       | 30.27                                     | 6.74          | 27.20                   | 64.21                                  | 74                      | PASS    |
| 1       | 2390.00         | AV       | 14.90                                     | 6.74          | 27.20                   | 48.84                                  | 54                      | PASS    |
| 13      | 2484.11         | PK       | 28.68                                     | 6.74          | 27.20                   | 62.62                                  | 74                      | PASS    |
| 13      | 2484.22         | AV       | 16.81                                     | 6.74          | 27.20                   | 50.75                                  | 54                      | PASS    |



(PEAK, Channel 1, 802.11g)



(AVERAGE, Channel 1, 802.11g)



(PEAK, Channel 13, 802.11g)



(AVERAGE, Channel 13, 802.11g)

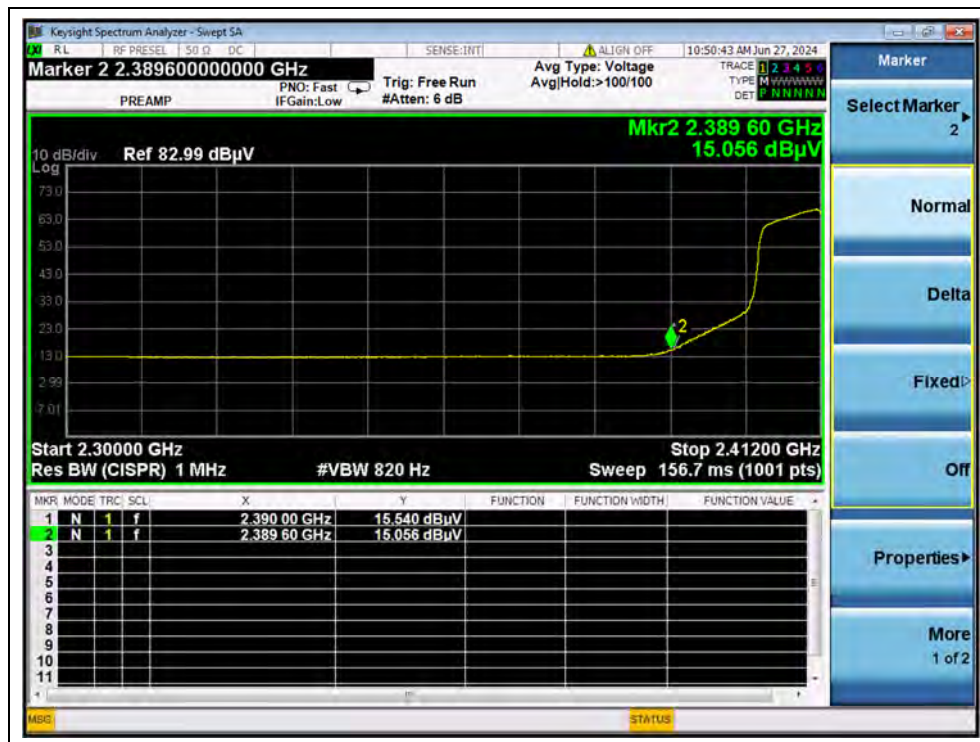


**802.11n (HT20) Mode**

| Channel | Frequency (MHz) | Detector | Receiver Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max. Emission<br>$E$<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|-----------------|----------|-------------------------------------------|---------------|-------------------------|----------------------------------------|-------------------------|---------|
|         |                 | PK/ AV   |                                           |               |                         |                                        |                         |         |
| 1       | 2390.00         | PK       | 35.21                                     | 6.74          | 27.20                   | 69.15                                  | 74                      | PASS    |
| 1       | 2389.60         | AV       | 15.06                                     | 6.74          | 27.20                   | 49.00                                  | 54                      | PASS    |
| 13      | 2483.96         | PK       | 25.95                                     | 6.74          | 27.20                   | 59.89                                  | 74                      | PASS    |
| 13      | 2483.50         | AV       | 16.82                                     | 6.74          | 27.20                   | 50.76                                  | 54                      | PASS    |



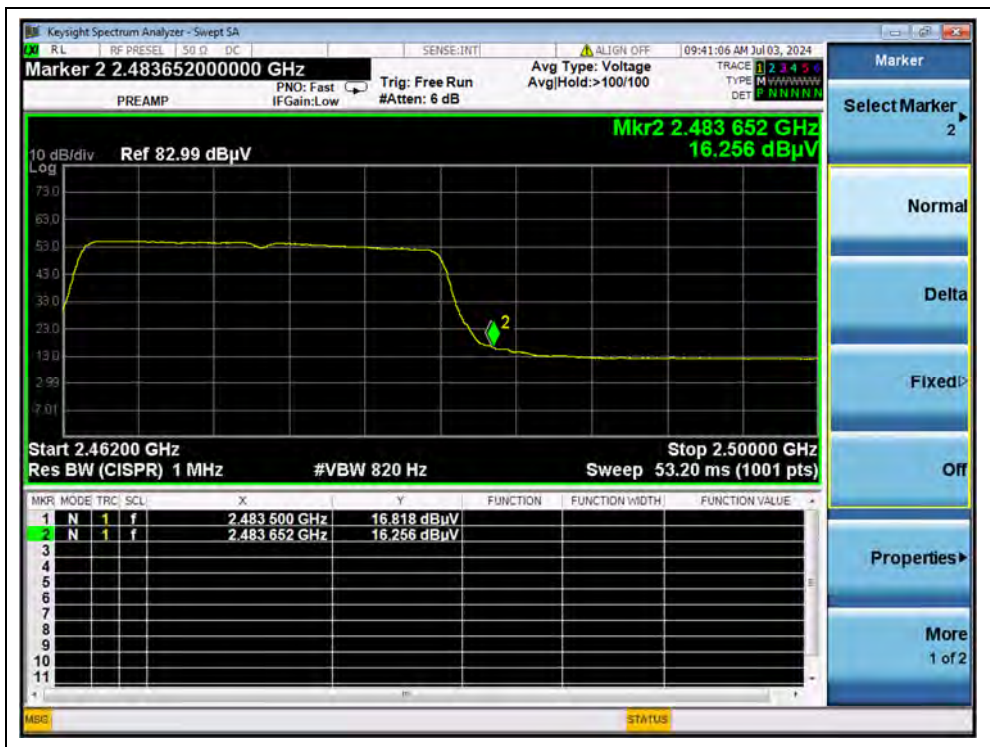
(PEAK, Channel 1, 802.11n (HT20))



(AVERAGE, Channel 1, 802.11n (HT20))



(PEAK, Channel 13, 802.11n (HT20))

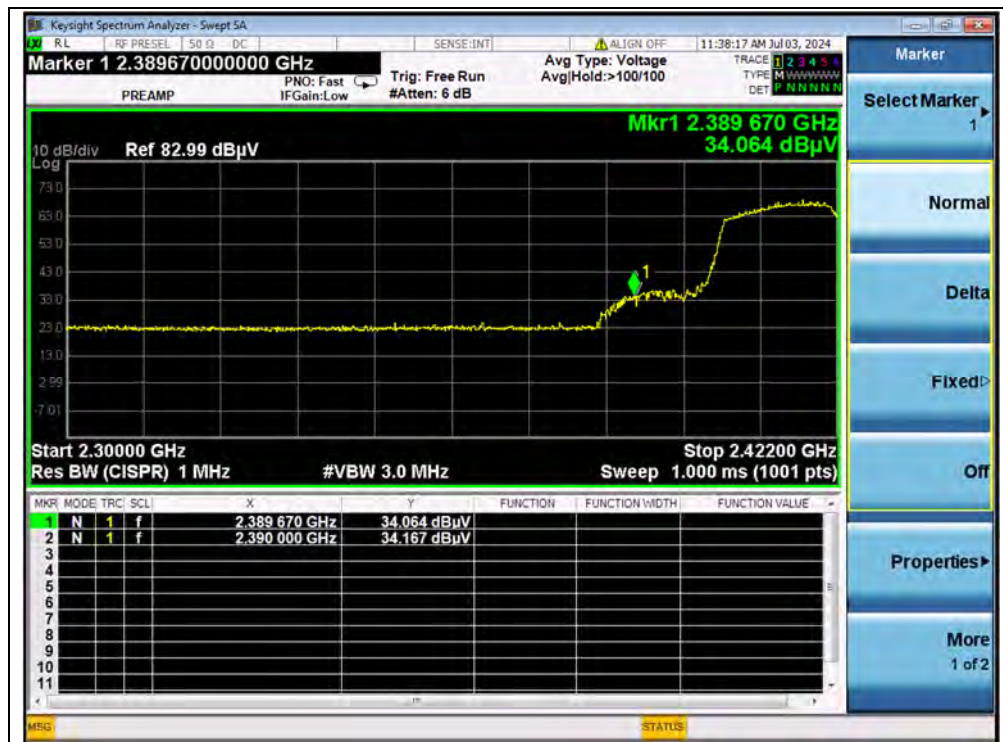


(AVERAGE, Channel 13, 802.11n (HT20))

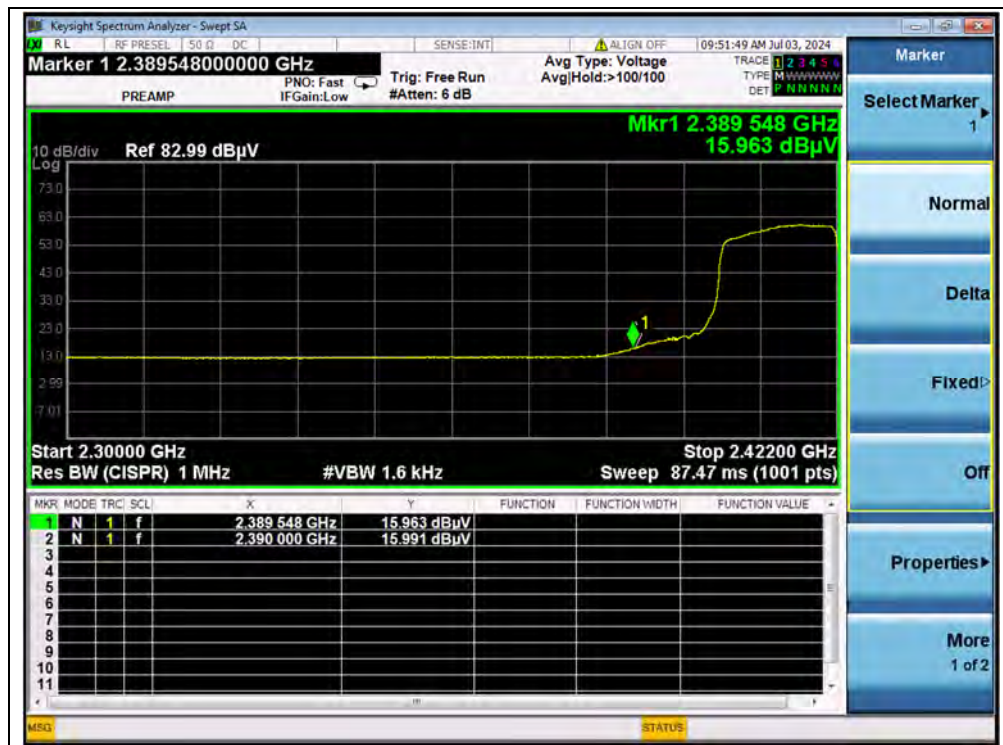


**802.11n (HT40) Mode**

| Channel | Frequency (MHz) | Detector | Receiver Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max. Emission<br>$E$<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|-----------------|----------|-------------------------------------------|---------------|-------------------------|----------------------------------------|-------------------------|---------|
|         |                 | PK/ AV   |                                           |               |                         |                                        |                         |         |
| 3       | 2390.00         | PK       | 34.17                                     | 6.74          | 27.20                   | 68.11                                  | 74                      | PASS    |
| 3       | 2390.00         | AV       | 15.99                                     | 6.74          | 27.20                   | 49.93                                  | 54                      | PASS    |
| 11      | 2483.50         | PK       | 30.10                                     | 6.74          | 27.20                   | 64.04                                  | 74                      | PASS    |
| 11      | 2483.58         | AV       | 16.68                                     | 6.74          | 27.20                   | 50.62                                  | 54                      | PASS    |



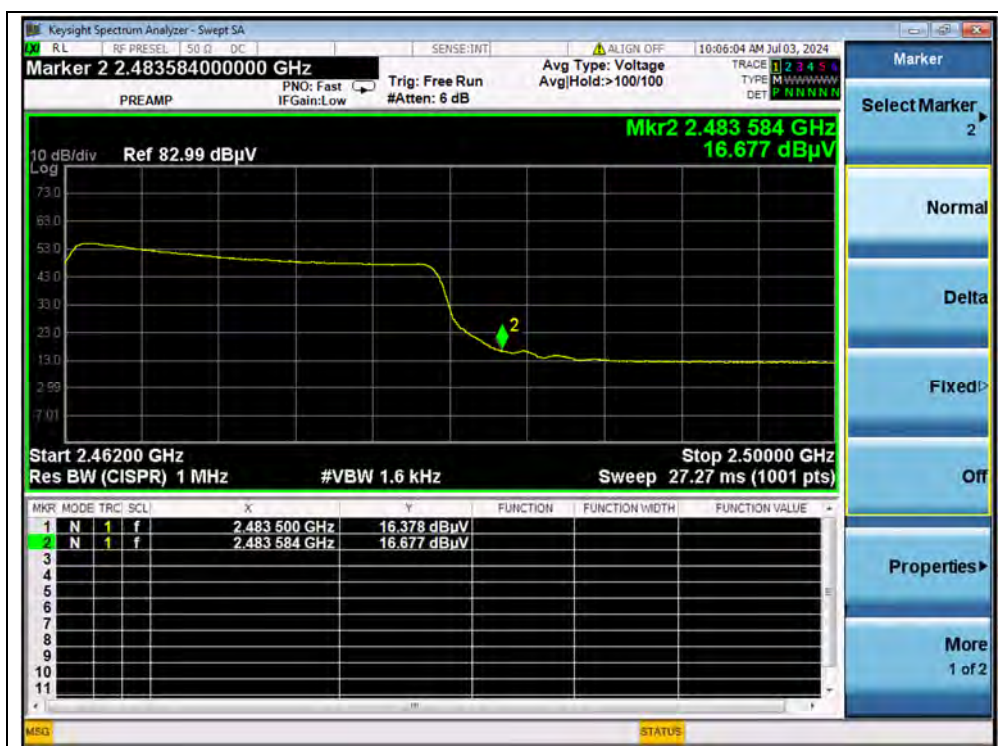
(PEAK, Channel 3, 802.11n (HT40))



(AVERAGE, Channel 3, 802.11n (HT40))



(PEAK, Channel 11, 802.11n (HT40))



(AVERAGE, Channel 11, 802.11n (HT40))

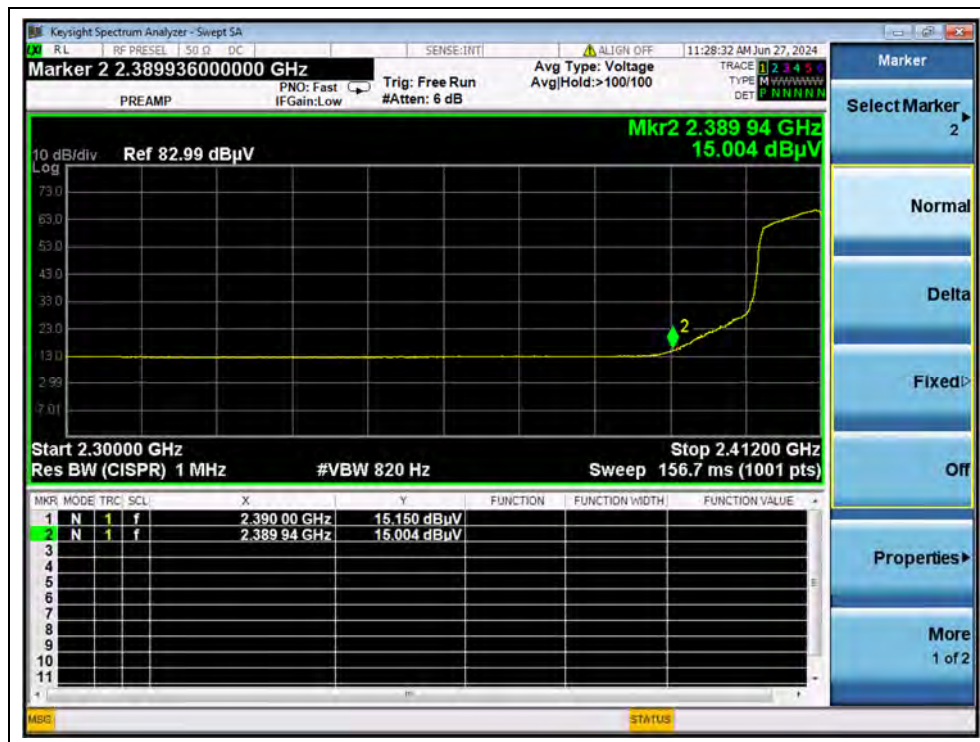


**802.11ac (VHT20) Mode**

| Channel | Frequency (MHz) | Detector | Receiver Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max. Emission<br>$E$<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|-----------------|----------|-------------------------------------------|---------------|-------------------------|----------------------------------------|-------------------------|---------|
|         |                 | PK/ AV   |                                           |               |                         |                                        |                         |         |
| 1       | 2389.38         | PK       | 30.96                                     | 6.74          | 27.20                   | 64.90                                  | 74                      | PASS    |
| 1       | 2390.00         | AV       | 15.15                                     | 6.74          | 27.20                   | 49.09                                  | 54                      | PASS    |
| 13      | 2483.50         | PK       | 26.13                                     | 6.74          | 27.20                   | 60.07                                  | 74                      | PASS    |
| 13      | 2483.50         | AV       | 17.06                                     | 6.74          | 27.20                   | 51.00                                  | 54                      | PASS    |



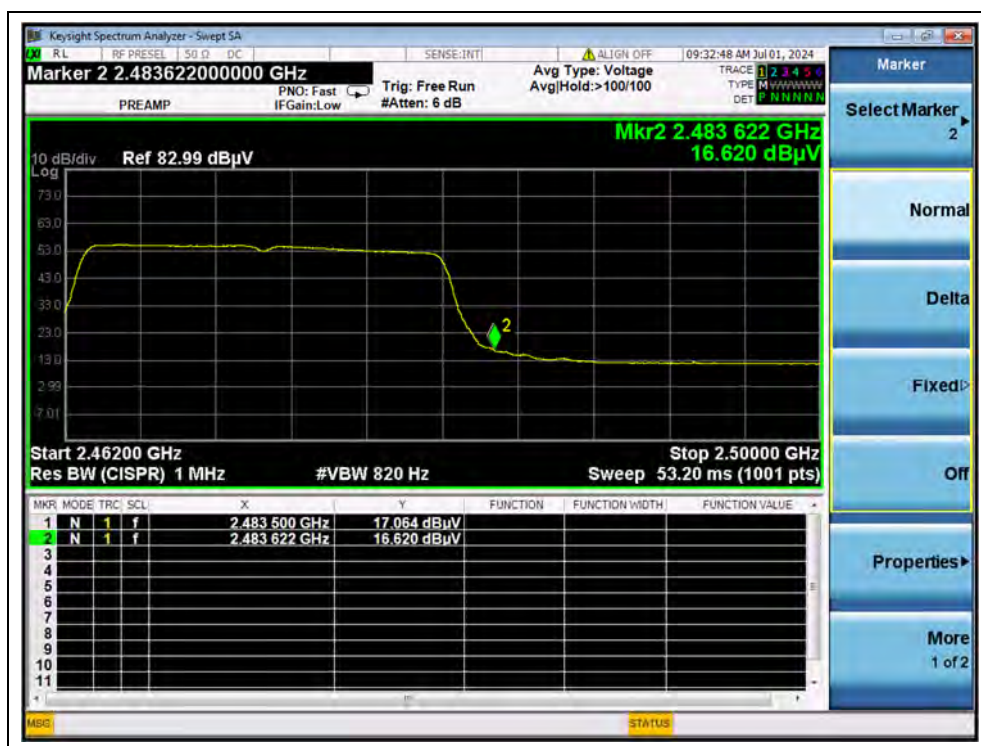
(PEAK, Channel 1, 802.11ac (VHT20))



(AVERAGE, Channel 1, 802.11ac (VHT20))



(PEAK, Channel 13, 802.11ac (VHT20))



(AVERAGE, Channel 13, 802.11ac (VHT20))

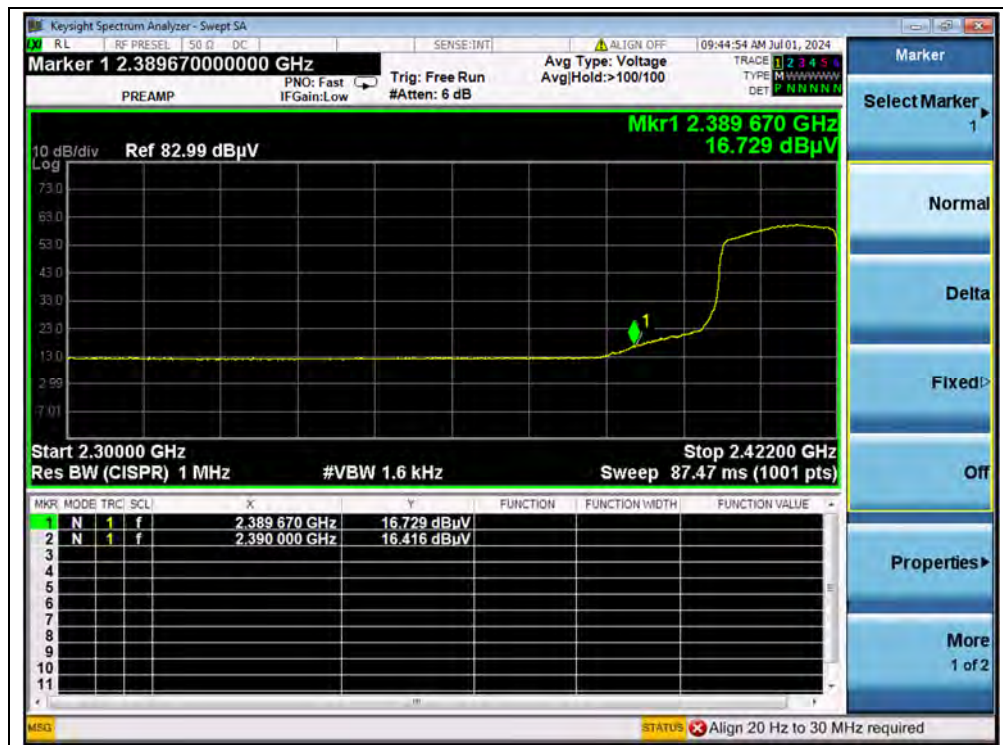


**802.11ac (VHT40) Mode**

| Channel | Frequency (MHz) | Detector | Receiver Reading<br>$U_R$<br>(dB $\mu$ V) | $A_T$<br>(dB) | $A_{Factor}$<br>(dB@3m) | Max. Emission<br>$E$<br>(dB $\mu$ V/m) | Limit<br>(dB $\mu$ V/m) | Verdict |
|---------|-----------------|----------|-------------------------------------------|---------------|-------------------------|----------------------------------------|-------------------------|---------|
|         |                 | PK/ AV   |                                           |               |                         |                                        |                         |         |
| 3       | 2390.00         | PK       | 30.73                                     | 6.74          | 27.20                   | 64.67                                  | 74                      | PASS    |
| 3       | 2389.67         | AV       | 16.73                                     | 6.74          | 27.20                   | 50.67                                  | 54                      | PASS    |
| 11      | 2483.62         | PK       | 29.10                                     | 6.74          | 27.20                   | 63.04                                  | 74                      | PASS    |
| 11      | 2483.50         | AV       | 16.87                                     | 6.74          | 27.20                   | 50.81                                  | 54                      | PASS    |



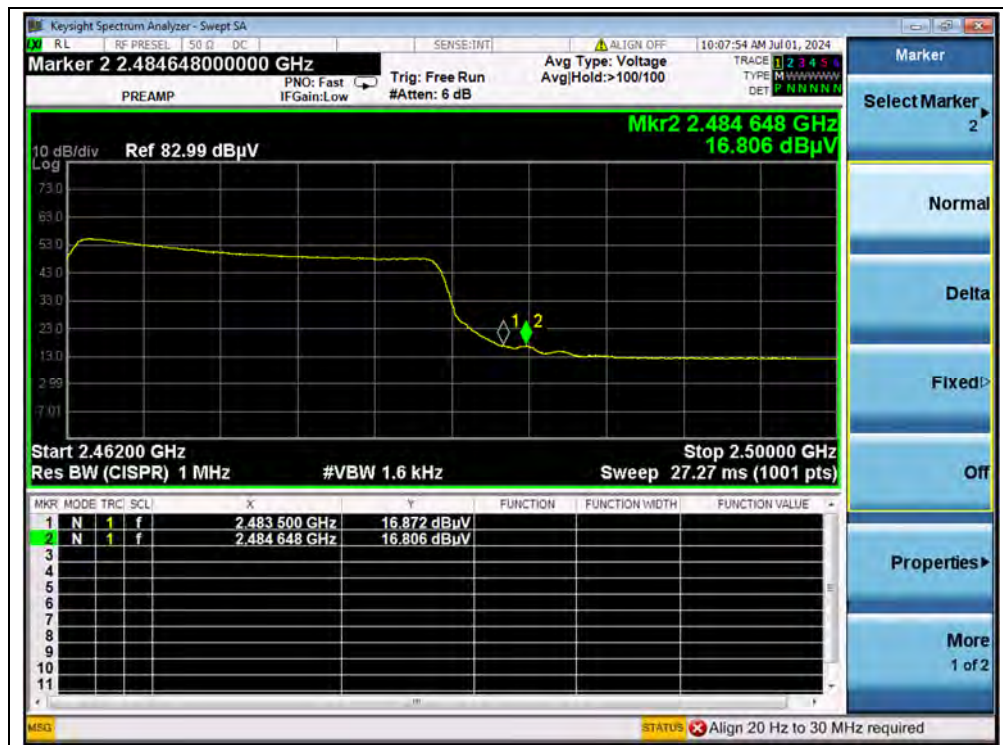
(PEAK, Channel 3, 802.11ac (VHT40))



(AVERAGE, Channel 3, 802.11ac (VHT40))



(PEAK, Channel 11, 802.11ac (VHT40))



(AVERAGE, Channel 11, 802.11ac (VHT40))





#### A.10. Radiated Emission

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$$E [\text{dB}\mu\text{V/m}] = U_R + A_T + A_{\text{Factor}} [\text{dB}]; A_T = L_{\text{Cable loss}} [\text{dB}] - G_{\text{preamp}} [\text{dB}]$$

$A_T$ : Total correction Factor except Antenna

$U_R$ : Receiver Reading

$G_{\text{preamp}}$ : Preamplifier Gain

$A_{\text{Factor}}$ : Antenna Factor at 3m

During the test, the total correction Factor  $A_T$  and  $A_{\text{Factor}}$  were built in test software.

**Note1:** All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

**Note2:** For the frequency, which started from 9kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

**Note3:** For the frequency, which started from 18GHz to 10th harmonic of the highest frequency, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

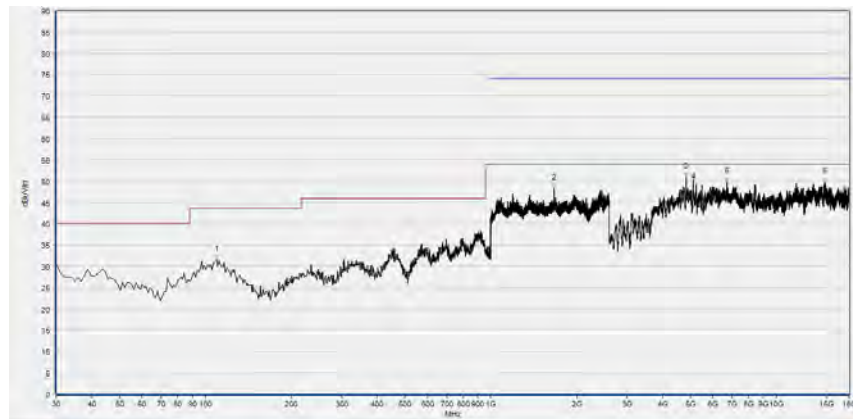
Field strength of fundamental:

| Frequency (MHz) | Reading_Peak (dB $\mu$ V/m) | Antenna Factor (dB) | Path Loss (dB) | Final_Peak (dB $\mu$ V/m) | Antenna Polarity |
|-----------------|-----------------------------|---------------------|----------------|---------------------------|------------------|
| 2413.90         | 71.21                       | 27.20               | 6.74           | 105.15                    | Horizontal       |

The field strength (the lowest) of fundamenta is more than 20dB higher than the unwanted emissions, in accordance with FCC part 15.215(b).

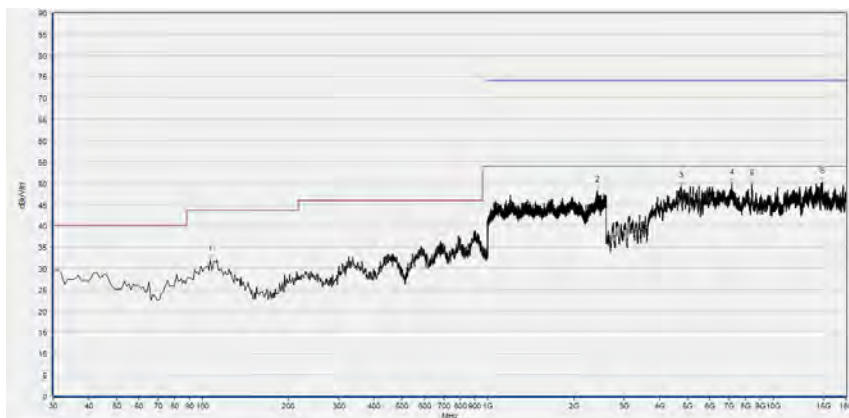
**802.11b Mode**

## Plot for Channel 1



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 109.540       | 31.48          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 1662.933      | 48.19          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4823.760      | 50.96          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5110.200      | 50.41          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 6724.120      | 49.77          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 14781.400     | 49.77          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

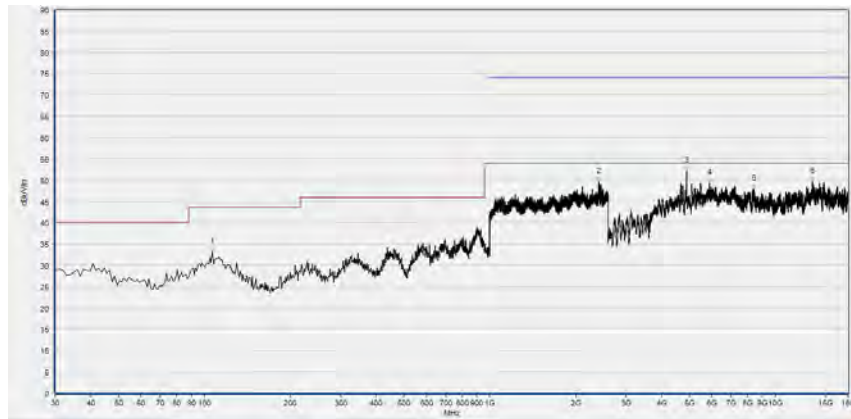


| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 106.630       | 32.00          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2421.867      | 48.26          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4743.680      | 49.24          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 7161.480      | 49.96          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 8430.440      | 49.72          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 14849.160     | 50.23          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

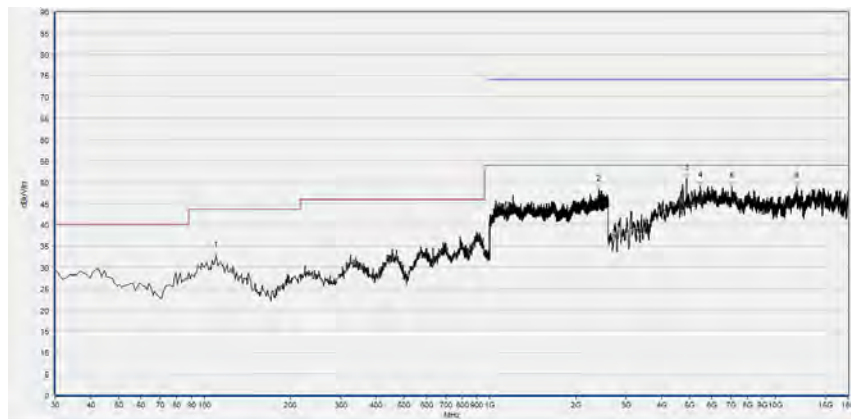


Plot for Channel 7



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 106.630       | 33.22          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2412.267      | 49.69          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4885.360      | 52.13          | N/A            | 49.80          | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5889.440      | 49.26          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 8408.880      | 47.90          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 13481.640     | 49.64          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

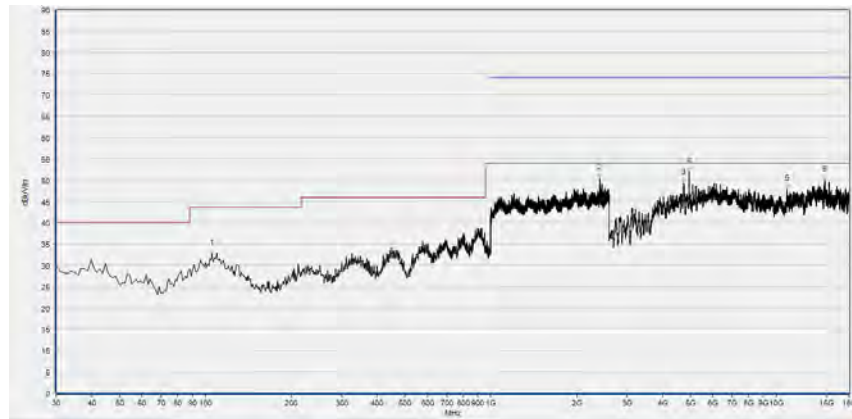


| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 109.540       | 32.70          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2405.333      | 48.34          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4882.280      | 50.80          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5473.640      | 49.05          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 7041.360      | 48.98          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 11904.680     | 48.95          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

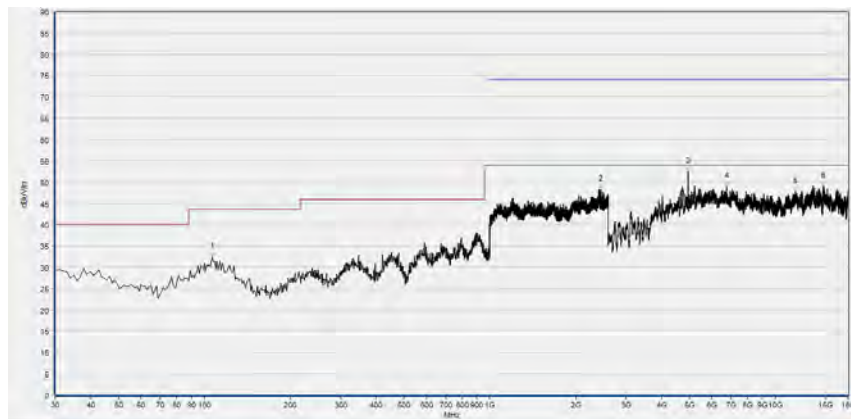


Plot for Channel 13



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna    | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 105.660    | 32.68       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2414.933   | 50.37       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4740.600   | 49.20       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4943.880   | 52.00       | N/A         | 49.86       | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 10900.600  | 47.94       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 14762.920  | 49.99       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

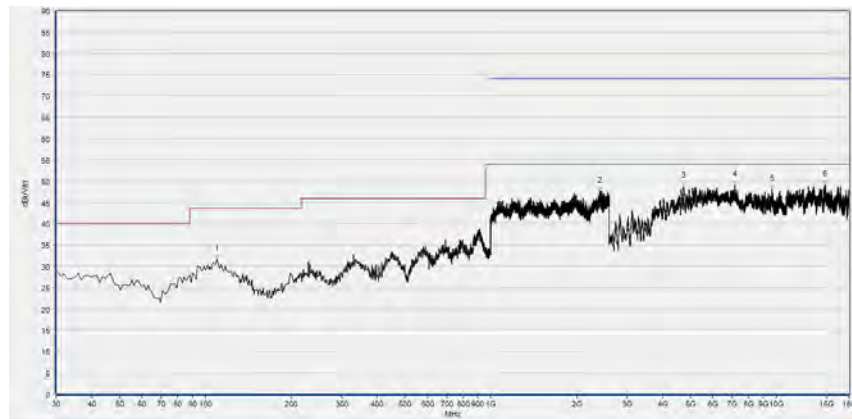


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 106.630    | 32.41       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2449.067   | 48.23       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 4943.880   | 52.41       | N/A         | 47.33       | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 6739.520   | 48.90       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 11766.080  | 47.80       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 14753.680  | 48.87       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

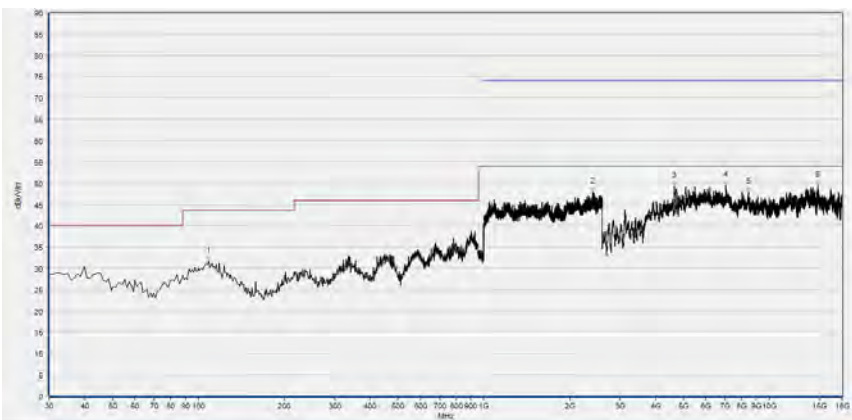
**802.11g Mode**

## Plot for Channel 1



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 109.540       | 31.67          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2405.333      | 47.61          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4737.520      | 48.83          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 7139.920      | 49.08          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 9671.680      | 48.15          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 14836.840     | 49.07          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

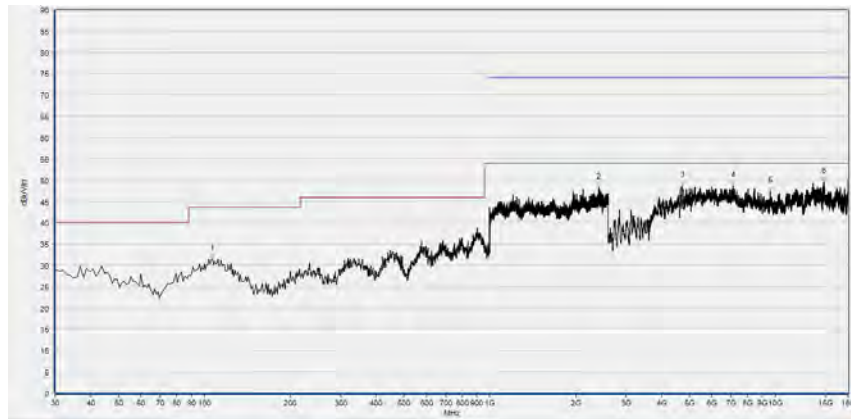
(Antenna Horizontal, 30MHz to 18GHz)



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 108.570       | 31.70          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2405.333      | 47.92          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4657.440      | 49.30          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 7053.680      | 49.40          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 8455.080      | 47.95          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 14833.760     | 49.39          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

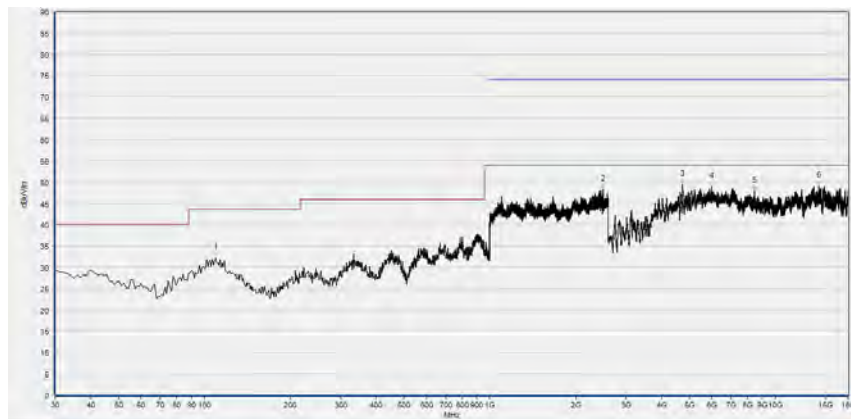
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 106.630       | 31.45          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2408.533      | 48.22          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4737.520      | 48.61          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 7106.040      | 48.57          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 9616.240      | 47.39          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 14799.880     | 49.60          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

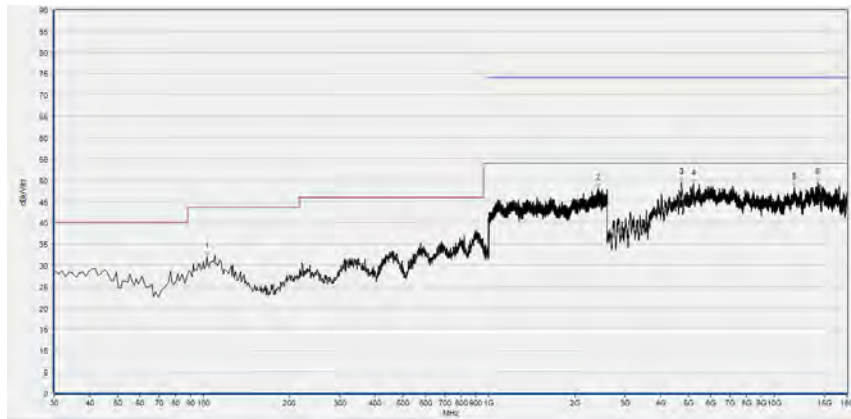
(Antenna Horizontal, 30MHz to 18GHz)



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 109.540       | 32.25          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2489.600      | 48.29          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4740.600      | 49.52          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5984.920      | 48.89          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 8452.000      | 47.87          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 14190.040     | 49.18          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

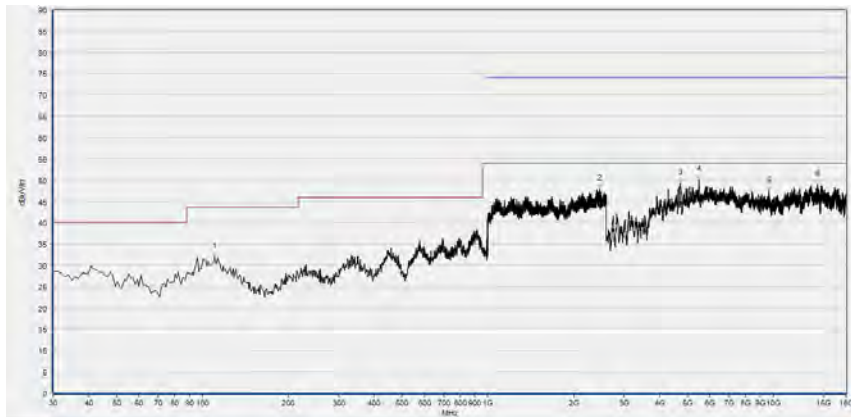
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 13



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna    | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 102.750    | 31.94       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2420.800   | 48.10       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4740.600   | 49.41       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5214.920   | 49.04       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 11781.480  | 48.24       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 14251.640  | 49.43       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)



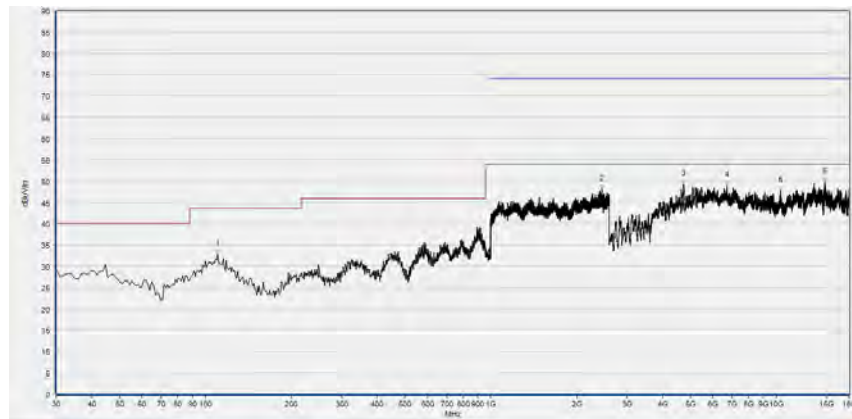
| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 110.510    | 32.08       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2461.867   | 47.86       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 4737.520   | 49.20       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5485.960   | 50.17       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 9674.760   | 47.36       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 14263.960  | 48.96       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)



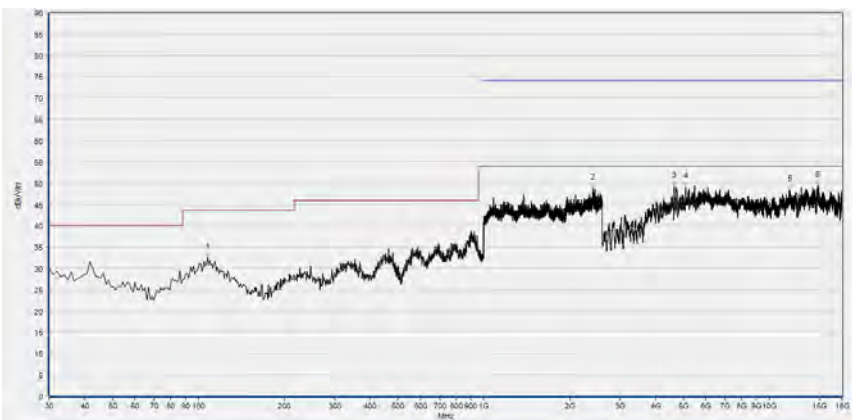
**802.11n (HT20) Mode**

Plot for Channel 1



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 110.510       | 32.86          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2456.000      | 48.12          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4737.520      | 49.31          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 6714.880      | 48.90          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 10355.440     | 47.80          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 14806.040     | 49.78          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

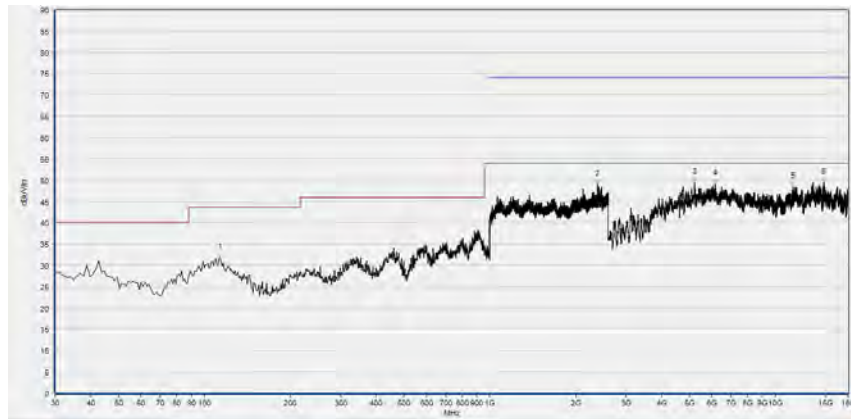


| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 107.600       | 32.47          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2409.600      | 48.73          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4651.280      | 49.31          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5088.640      | 49.15          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 11836.920     | 48.36          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 14836.840     | 49.45          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

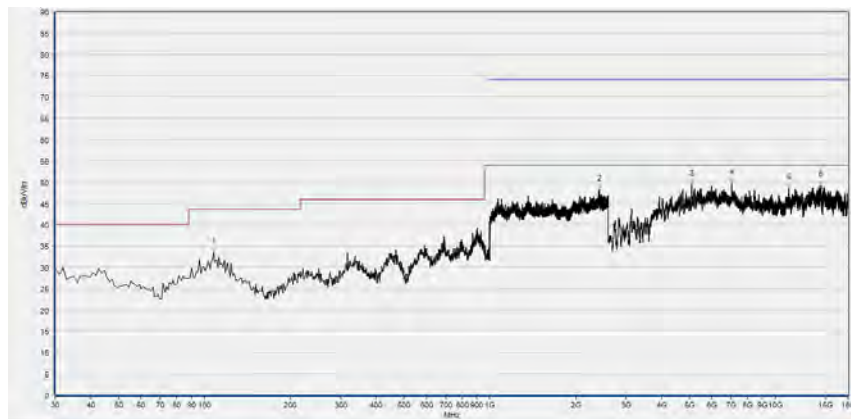


Plot for Channel 7



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 113.420       | 31.90          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2387.733      | 49.00          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5211.840      | 49.52          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 6172.800      | 49.18          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 11553.560     | 48.44          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 14787.560     | 49.48          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

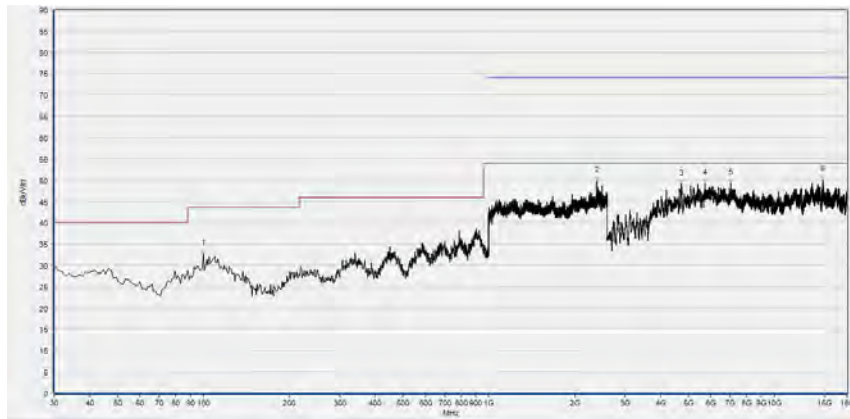
(Antenna Horizontal, 30MHz to 18GHz)



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 107.600       | 33.49          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2417.600      | 48.28          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5097.880      | 49.52          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 7047.520      | 49.81          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 11159.320     | 48.56          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 14424.120     | 49.27          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

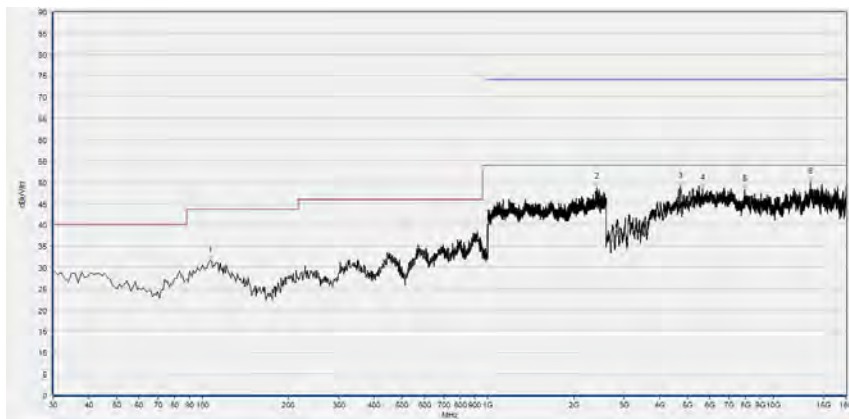
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 13



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna    | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 99.840     | 32.71       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2388.267   | 49.71       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4737.520   | 49.09       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5710.800   | 49.26       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 7050.600   | 49.35       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 14836.840  | 50.16       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

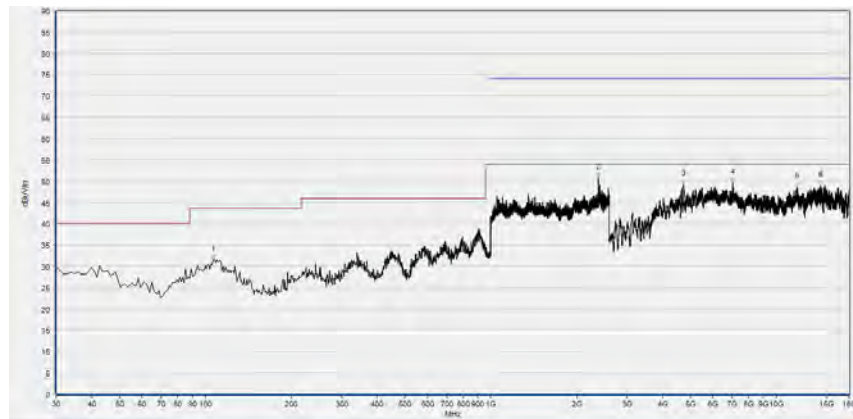


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 106.630    | 31.48       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2412.800   | 48.79       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 4737.520   | 48.96       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5655.360   | 48.43       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 7931.480   | 48.19       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 13512.440  | 49.92       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

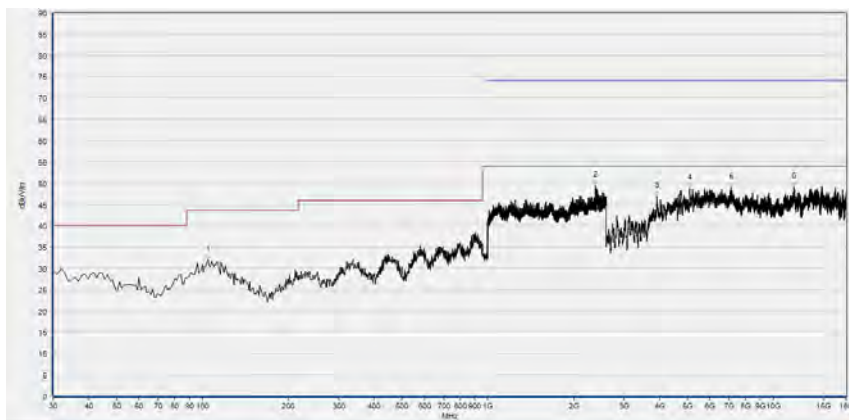
**802.11n (HT40) Mode**

Plot for Channel 3



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 106.630       | 31.44          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2386.667      | 50.75          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4740.600      | 49.27          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 7044.440      | 49.54          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 11812.280     | 48.65          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 14270.120     | 48.94          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

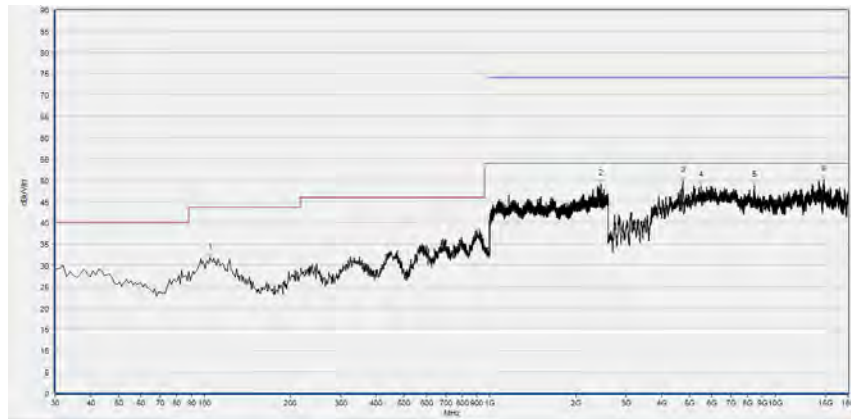


| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 104.690       | 32.05          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2386.667      | 49.47          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 3918.240      | 46.99          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5094.800      | 48.73          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 7115.280      | 48.87          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 11827.680     | 49.03          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

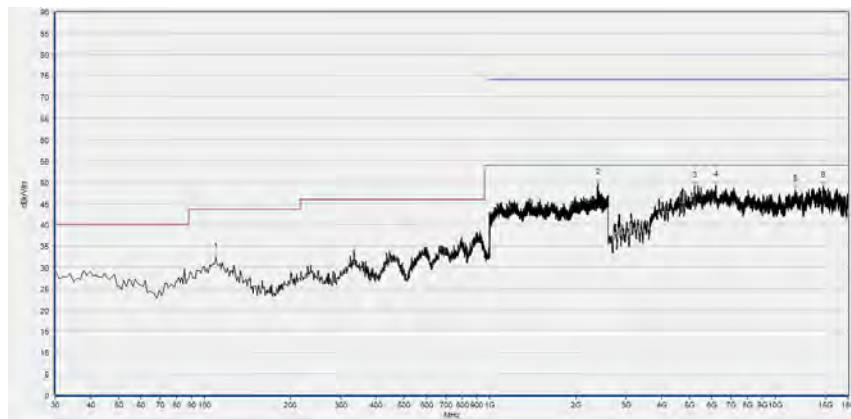


Plot for Channel 7



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 104.690       | 31.85          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2446.400      | 49.10          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4743.680      | 49.74          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5479.800      | 48.70          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 8436.600      | 48.83          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 14793.720     | 50.19          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

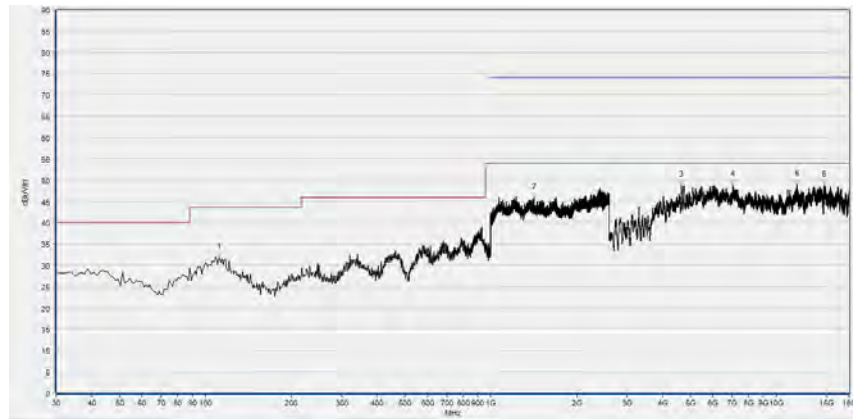


| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 109.540       | 32.34          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2388.800      | 49.82          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5224.160      | 49.08          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 6182.040      | 49.30          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 11766.080     | 48.21          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 14747.520     | 49.10          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

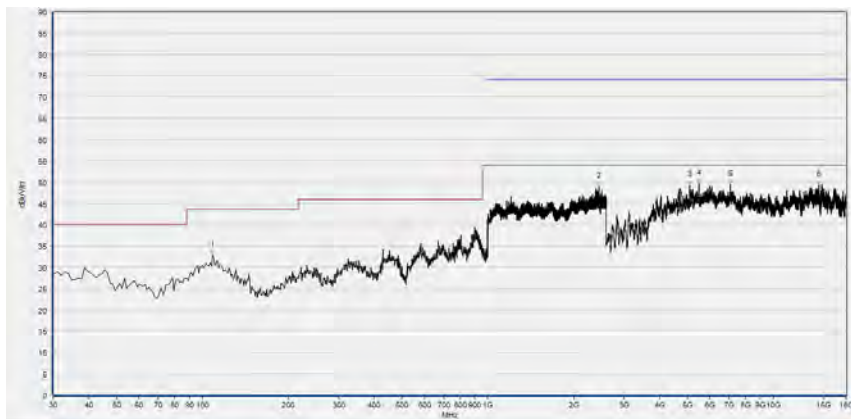


Plot for Channel 11



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna    | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 111.480    | 31.79       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 1419.733   | 45.93       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4657.440   | 48.71       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 7035.200   | 48.97       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 11796.880  | 48.98       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 14753.680  | 48.69       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

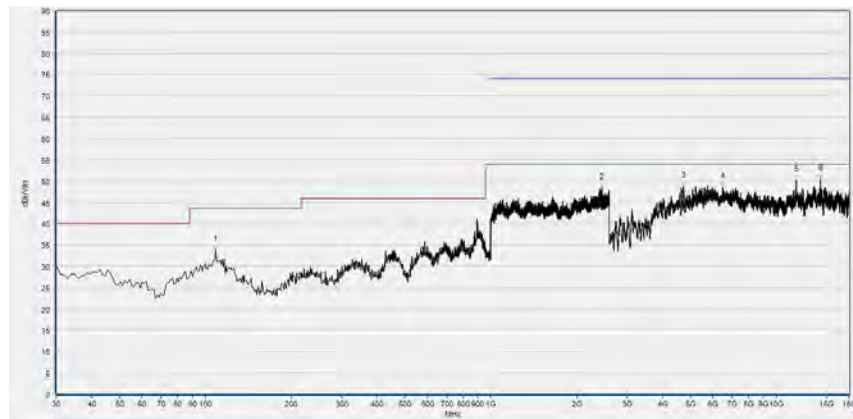


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 108.570    | 32.87       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2447.467   | 48.98       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5097.880   | 49.25       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5479.800   | 49.59       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 7062.920   | 49.38       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 14436.440  | 49.28       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

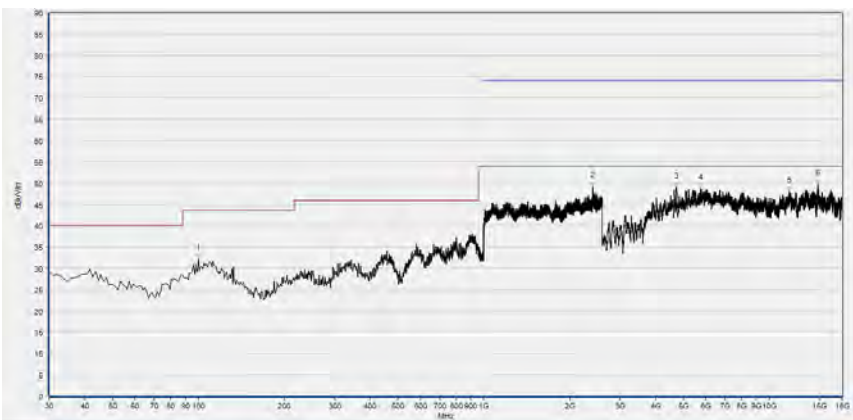
**802.11ac (VHT20) Mode**

Plot for Channel 1



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 108.570       | 33.89          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2450.133      | 48.46          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4725.200      | 48.79          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 6505.440      | 48.55          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 11772.240     | 50.23          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 14254.720     | 50.44          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

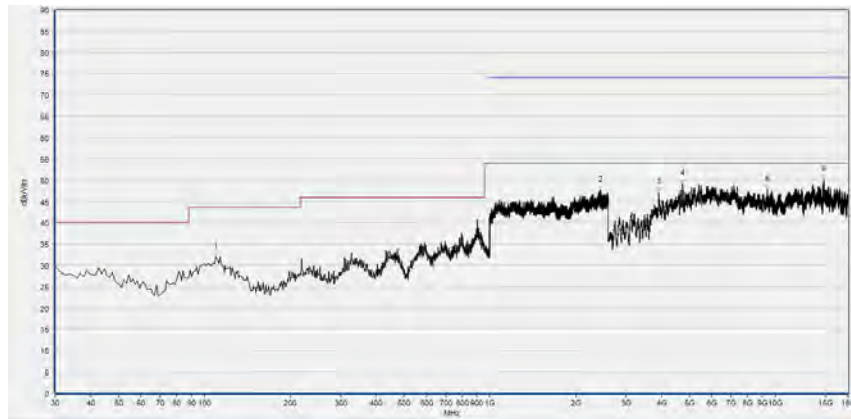


| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 99.840        | 32.12          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2409.600      | 49.21          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4740.600      | 49.06          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5753.920      | 48.81          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 11756.840     | 48.05          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 14824.520     | 49.84          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

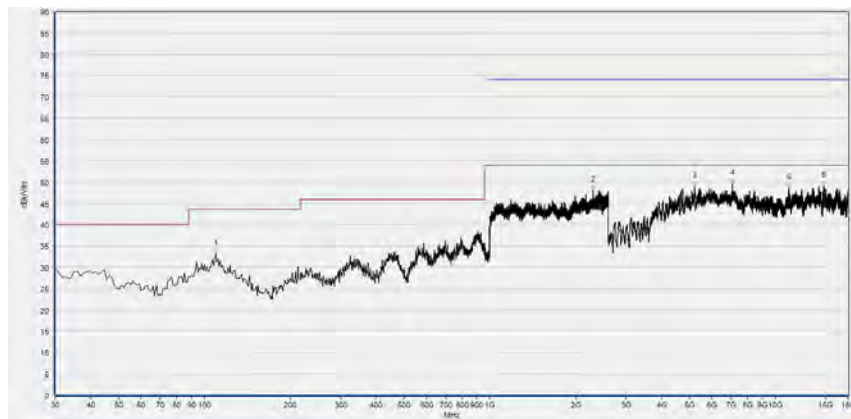


Plot for Channel 7



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 109.540       | 31.93          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2442.667      | 47.66          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 3905.920      | 47.09          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 4740.600      | 49.12          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 9376.000      | 47.72          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 14824.520     | 50.17          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)



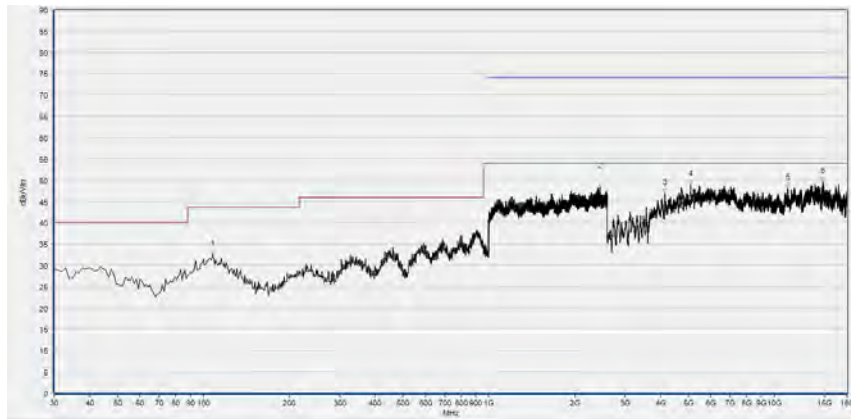
| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 109.540       | 33.14          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2299.733      | 48.04          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 5224.160      | 48.98          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 7087.560      | 49.58          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 11187.040     | 48.57          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 14818.360     | 49.07          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)



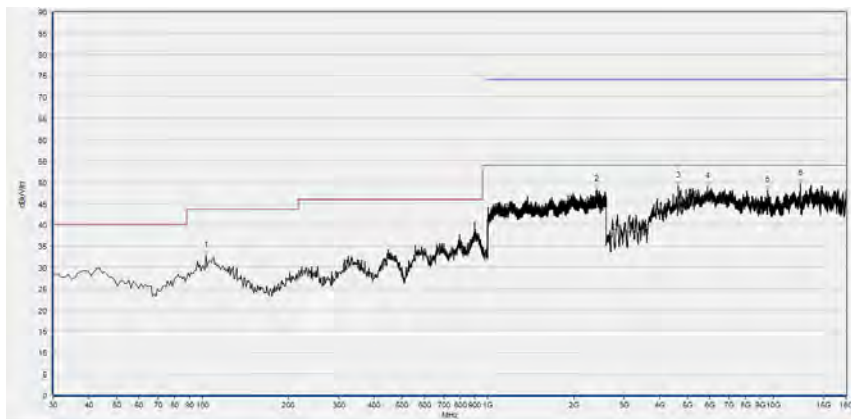


Plot for Channel 13



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna    | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 107.600    | 32.47       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2452.800   | 48.43       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 4149.240   | 46.86       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5100.960   | 48.87       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 11156.240  | 48.13       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 14772.160  | 49.55       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

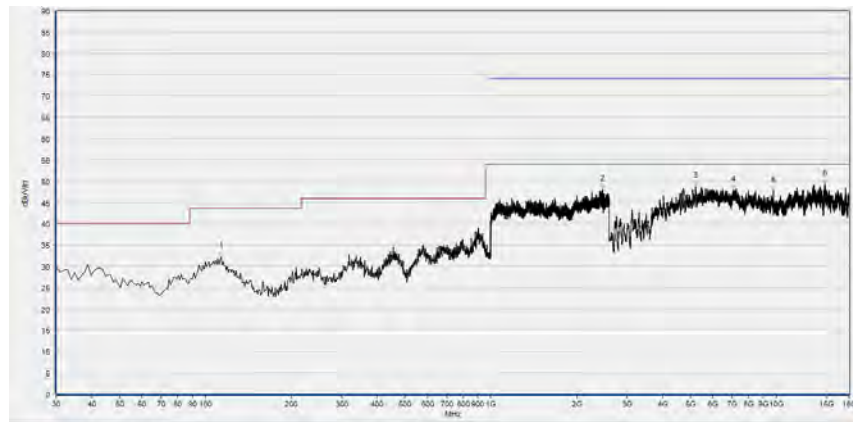


| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 102.750    | 32.63       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2411.733   | 48.20       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 4654.360   | 49.11       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5877.120   | 48.91       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 9576.200   | 48.03       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 12419.040  | 49.56       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

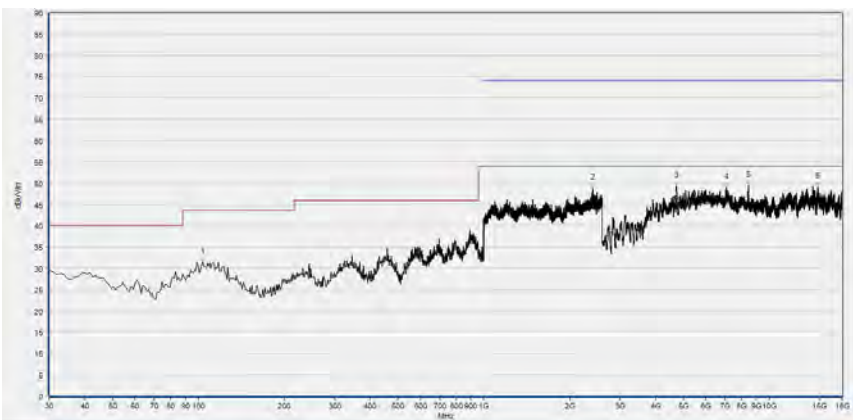
**802.11ac (VHT40) Mode**

Plot for Channel 3



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 113.420       | 32.17          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2461.333      | 48.06          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5227.240      | 48.74          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 7066.000      | 47.99          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 9751.760      | 47.81          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 14793.720     | 49.23          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

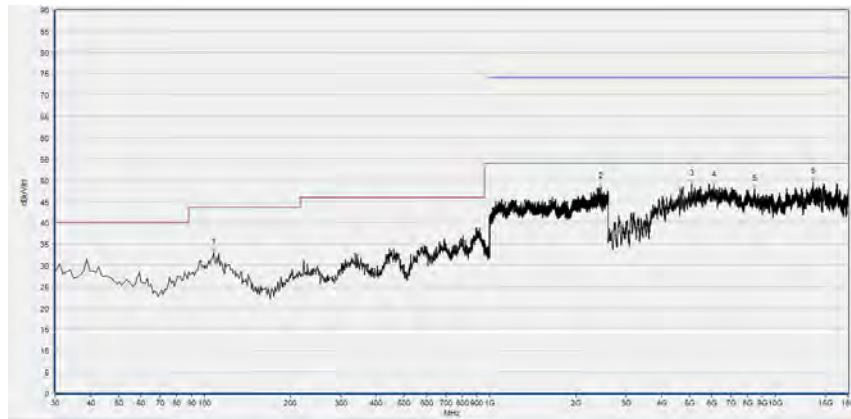
(Antenna Horizontal, 30MHz to 18GHz)



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 103.720       | 31.31          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2414.400      | 48.70          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4734.440      | 49.31          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 7072.160      | 49.00          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 8439.680      | 49.50          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 14802.960     | 49.05          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

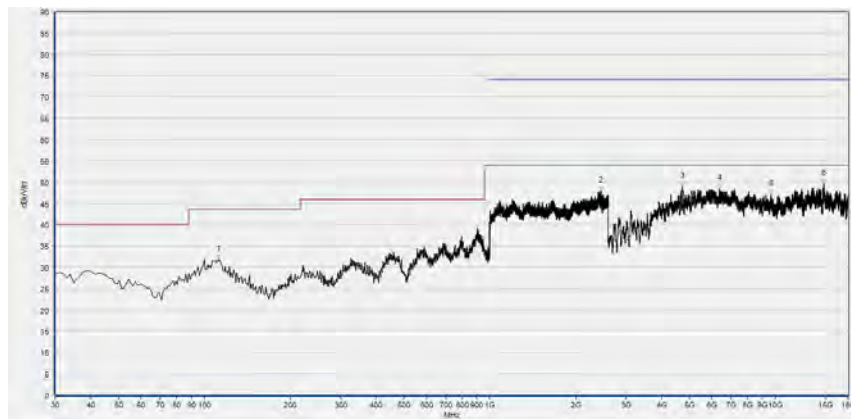
(Antenna Vertical, 30MHz to 18GHz)

Plot for Channel 7



| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna    | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|------------|---------|
| 107.600       | 32.94          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Horizontal | PASS    |
| 2448.533      | 48.38          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 5097.880      | 49.17          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 6095.800      | 48.85          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 8461.240      | 47.87          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |
| 13567.880     | 49.59          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)

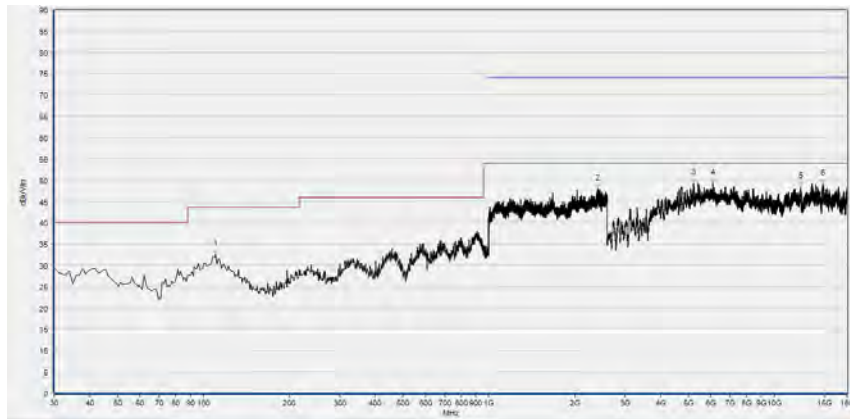


| Fre.<br>(MHz) | PK<br>(dBμV/m) | QP<br>(dBμV/m) | AV<br>(dBμV/m) | Limit-PK<br>(dBμV/m) | Limit-QP<br>(dBμV/m) | Limit-AV<br>(dBμV/m) | Antenna  | Verdict |
|---------------|----------------|----------------|----------------|----------------------|----------------------|----------------------|----------|---------|
| 112.450       | 31.90          | N/A            | N/A            | N/A                  | 43.50                | N/A                  | Vertical | PASS    |
| 2449.600      | 48.01          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 4734.440      | 48.92          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 6382.240      | 48.44          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 9653.200      | 47.04          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |
| 14815.280     | 49.63          | N/A            | N/A            | 74.00                | N/A                  | 54.00                | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)



Plot for Channel 11



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna    | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|------------|---------|
| 110.510    | 32.43       | N/A         | N/A         | N/A               | 43.50             | N/A               | Horizontal | PASS    |
| 2410.667   | 47.86       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 5224.160   | 49.19       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 6101.960   | 49.31       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 12403.640  | 48.49       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |
| 14790.640  | 49.09       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Horizontal | PASS    |

(Antenna Horizontal, 30MHz to 18GHz)



| Fre. (MHz) | PK (dBμV/m) | QP (dBμV/m) | AV (dBμV/m) | Limit-PK (dBμV/m) | Limit-QP (dBμV/m) | Limit-AV (dBμV/m) | Antenna  | Verdict |
|------------|-------------|-------------|-------------|-------------------|-------------------|-------------------|----------|---------|
| 111.480    | 32.43       | N/A         | N/A         | N/A               | 43.50             | N/A               | Vertical | PASS    |
| 2419.200   | 48.03       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 3915.160   | 46.60       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 5867.880   | 48.62       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 9052.600   | 47.44       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |
| 14756.760  | 49.57       | N/A         | N/A         | 74.00             | N/A               | 54.00             | Vertical | PASS    |

(Antenna Vertical, 30MHz to 18GHz)

END OF REPORT