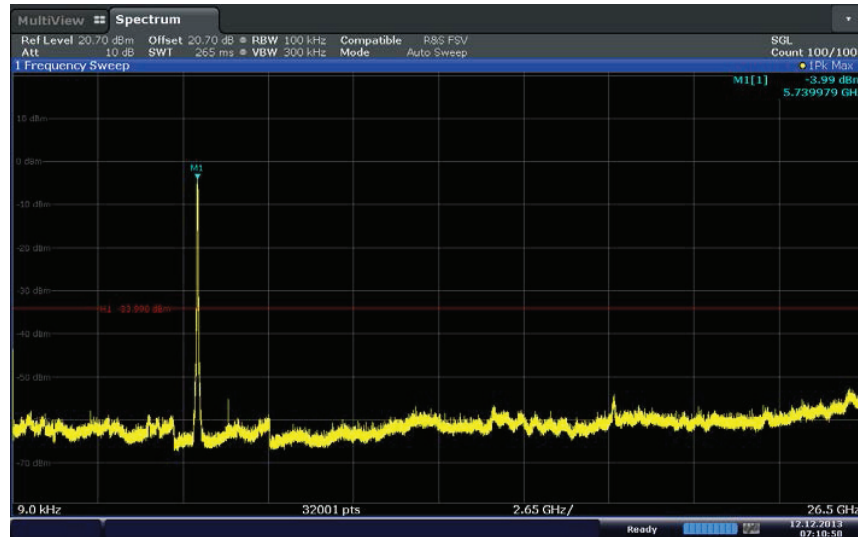
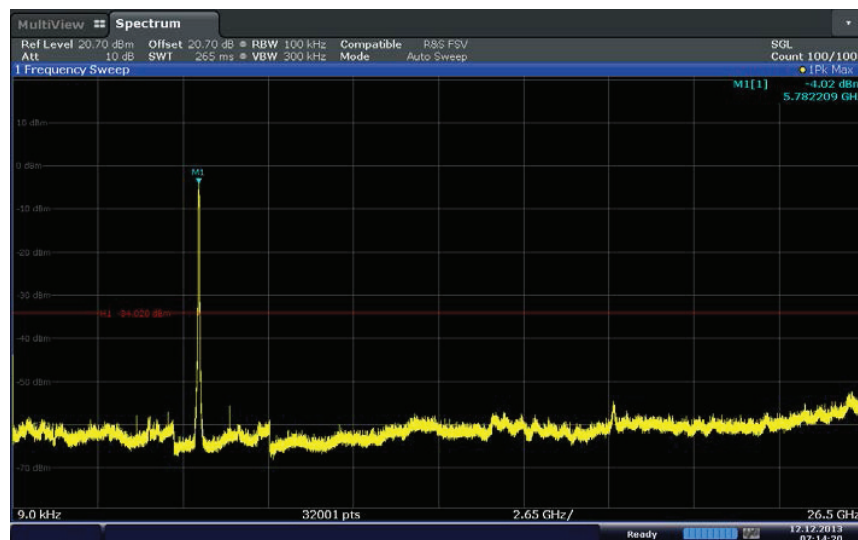
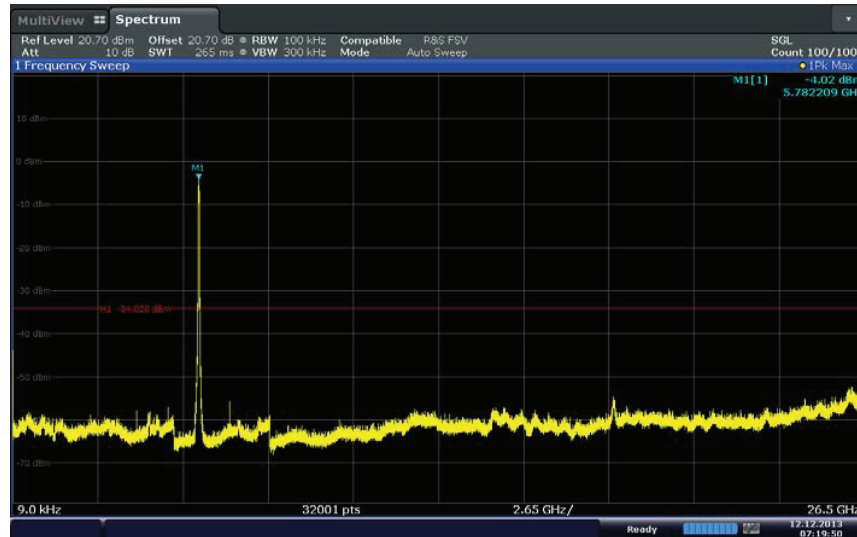




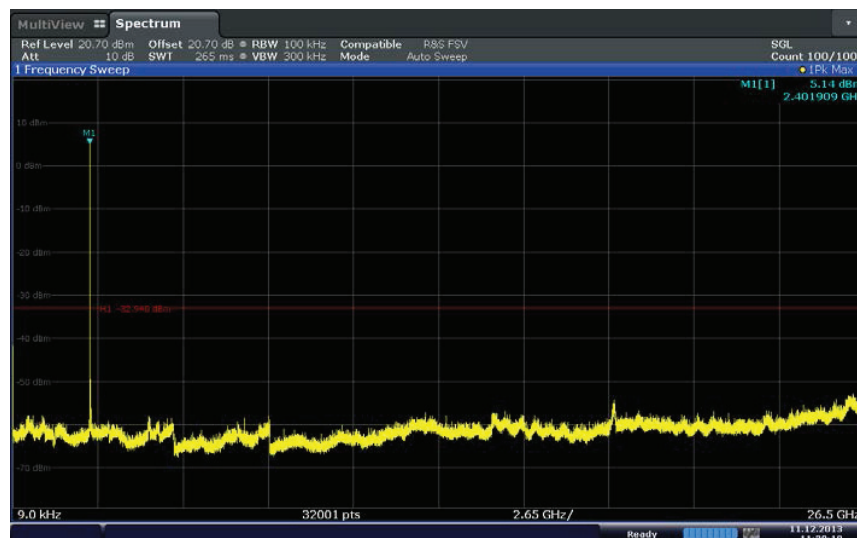
802.11n HT40 Low Channel



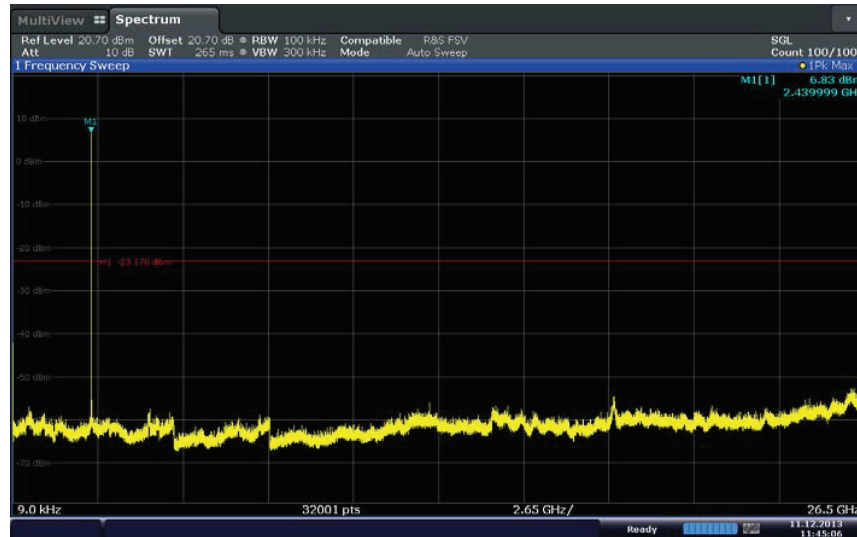
802.11n HT40 Mid Channel



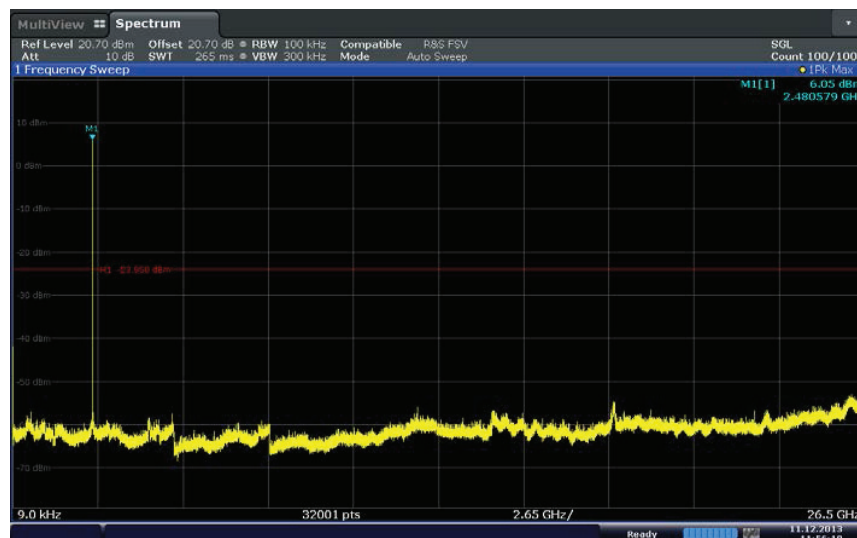
802.11n HT40 High Channel



Bluetooth LE Low Channel



Bluetooth LE Mid Channel



Bluetooth LE High Channel



## **2.6 BAND-EDGE COMPLIANCE OF RF CONDUCTED EMISSIONS**

### **2.6.1 Specification Reference**

Part 15 Subpart C §15.247(d)

### **2.6.2 Standard Applicable**

See previous test.

### **2.6.3 Equipment Under Test and Modification State**

Serial No: N/A (Sample #1) / Test Configuration A

### **2.6.4 Date of Test/Initial of test personnel who performed the test**

December 12, 2013/FSC

### **2.6.5 Test Equipment Used**

The major items of test equipment used for the above tests are identified in Section 3.1.

### **2.6.6 Environmental Conditions**

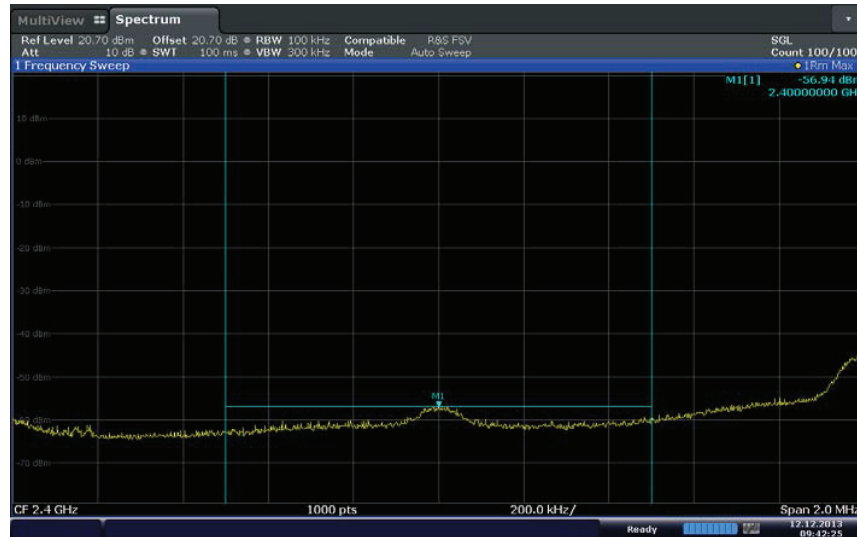
|                     |          |
|---------------------|----------|
| Ambient Temperature | 20.5°C   |
| Relative Humidity   | 23.3.%   |
| ATM Pressure        | 99.8 kPa |

### **2.6.7 Additional Observations**

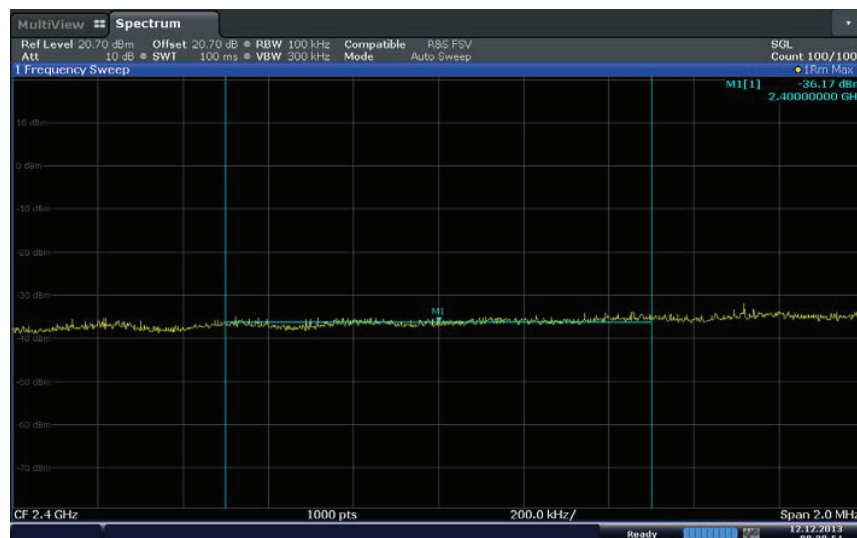
- Setup is identical to “Out-of-Band Emissions – Conducted” test (previous test).
- Both 2.4GHZ band-edge (2400MHz and 2483.5MHz) and 5GHz band-edge (5725MHz and 5850MHz) emissions were verified in this test.
- Test methodology is per Clause 13.3.2 of KDB 558074 (D01 DTS Meas Guidance v03r01, April 09, 2013); trace averaging with continuous EUT transmission at full power.
- Limits are from Section 2.5 of this test report. These are 30dBc from the highest level of the desired power within the band.

### **2.6.8 Test Results**

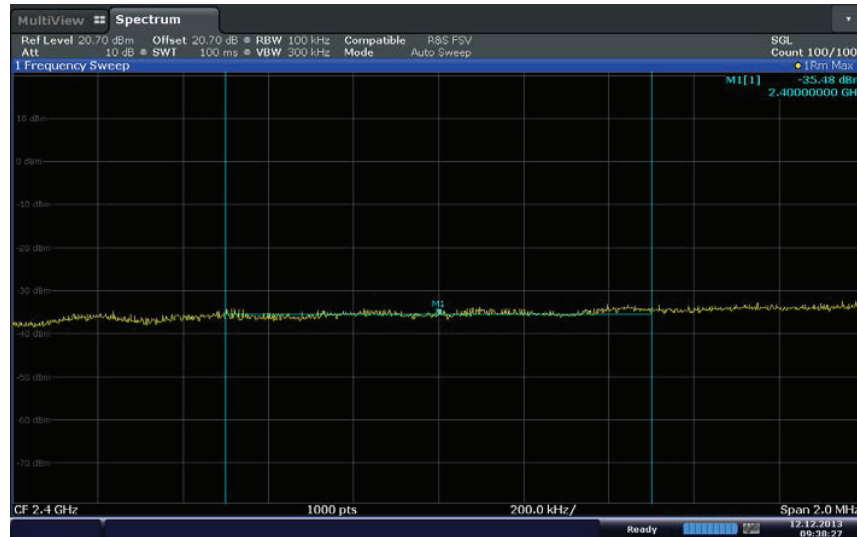
Complies. See attached plots.



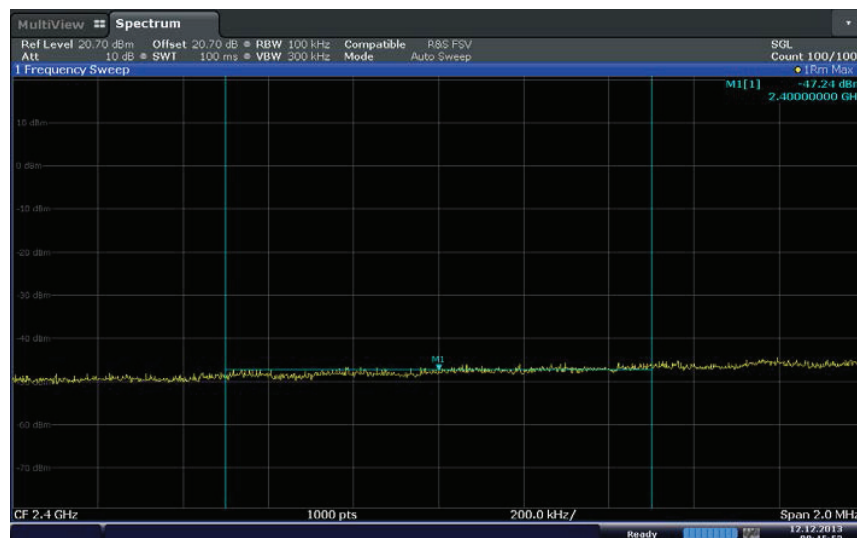
802.11b Low Channel (2412 MHz). Limit is -28.54 dBm. Margin is **-28.4 dB**.



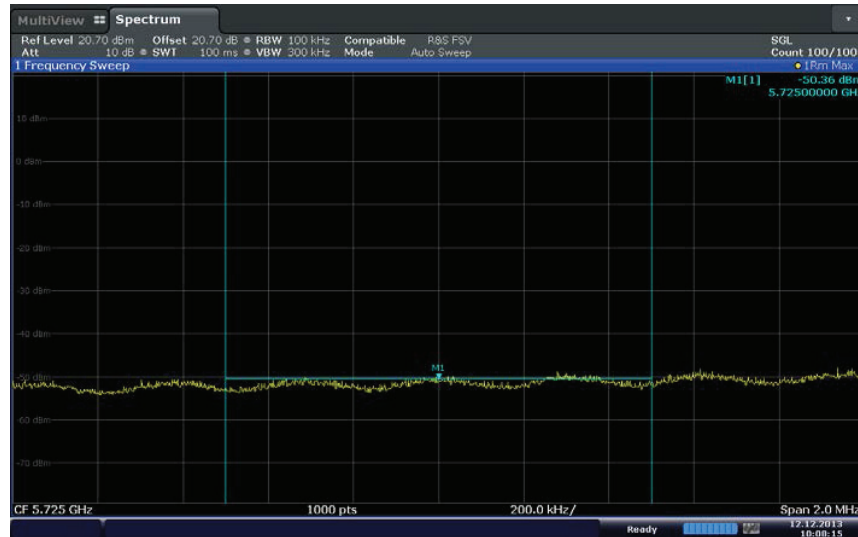
802.11g Low Channel (2412 MHz). Limit is -29.97 dBm. Margin is **-7.77 dB**.



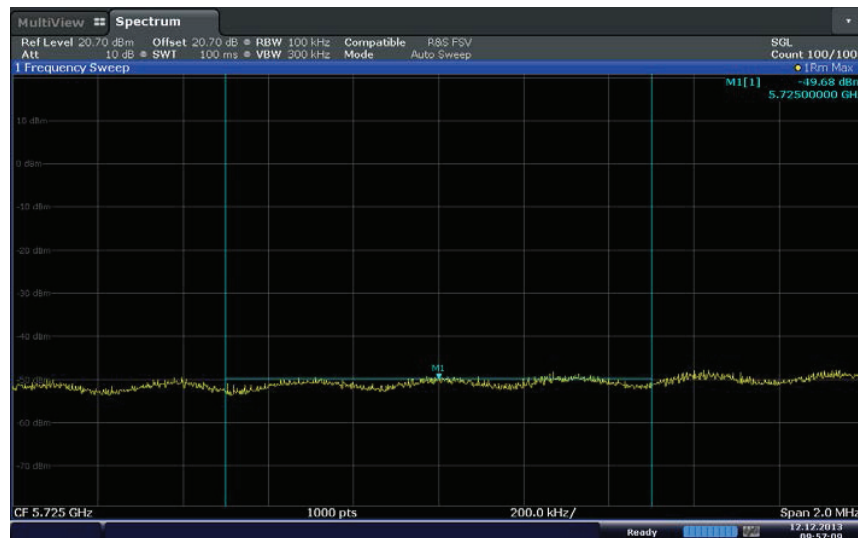
802.11n HT20 Low Channel (2412 MHz). Limit is -30.42 dBm. Margin is **-5.06 dB**.



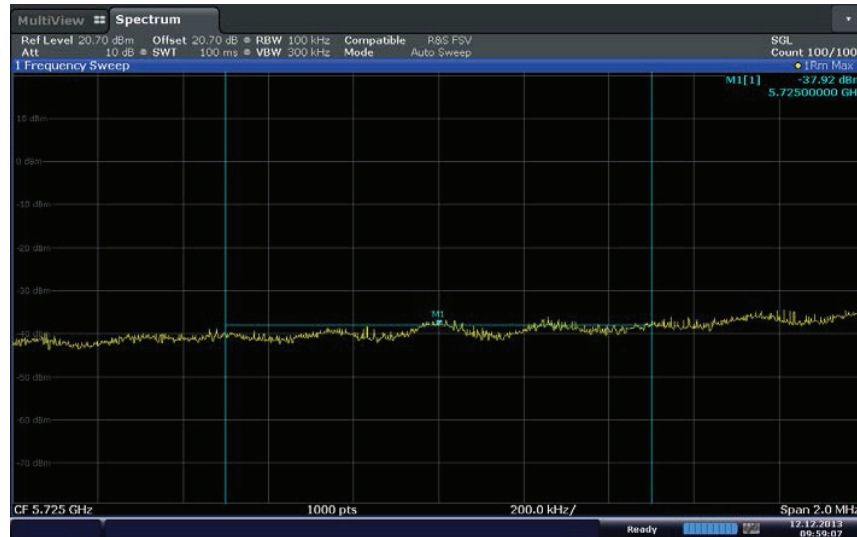
802.11n HT40 Low Channel (2422 MHz). Limit is -36.43 dBm. Margin is **-10.81 dB**.



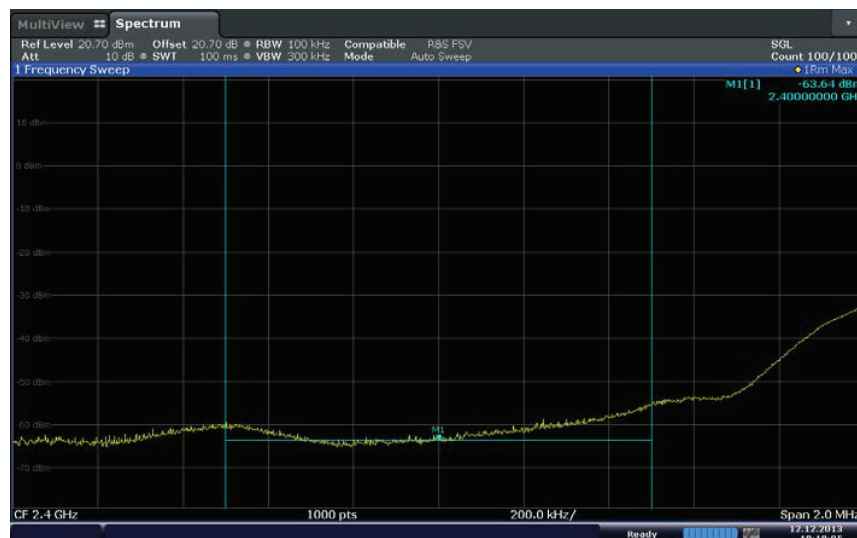
802.11a Low Channel (5745 MHz). Limit is -33.28 dBm. Margin is **-17.07 dB**.



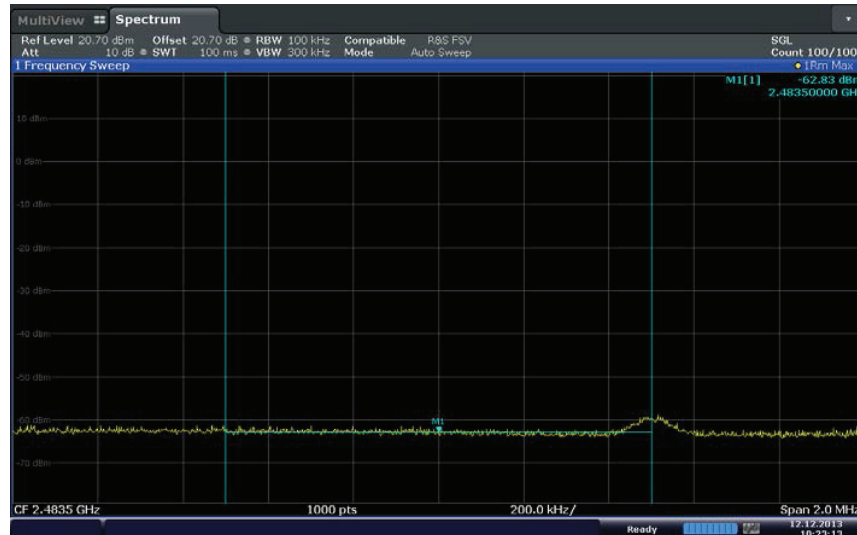
802.11n HT20 Low Channel (5745 MHz). Limit is -32.98 dBm. Margin is **-16.7 dB**.



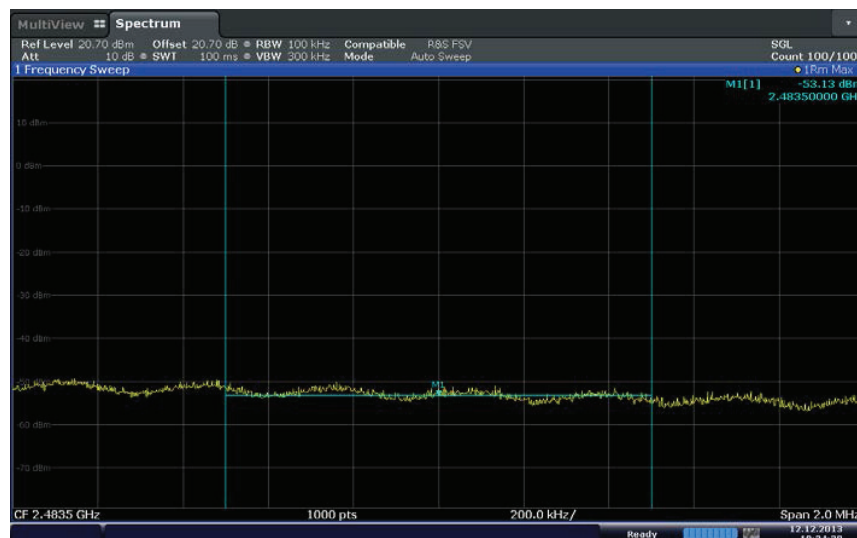
802.11n HT40 Low Channel (5745 MHz). Limit is -33.90 dBm. Margin is **-4.02 dB**.



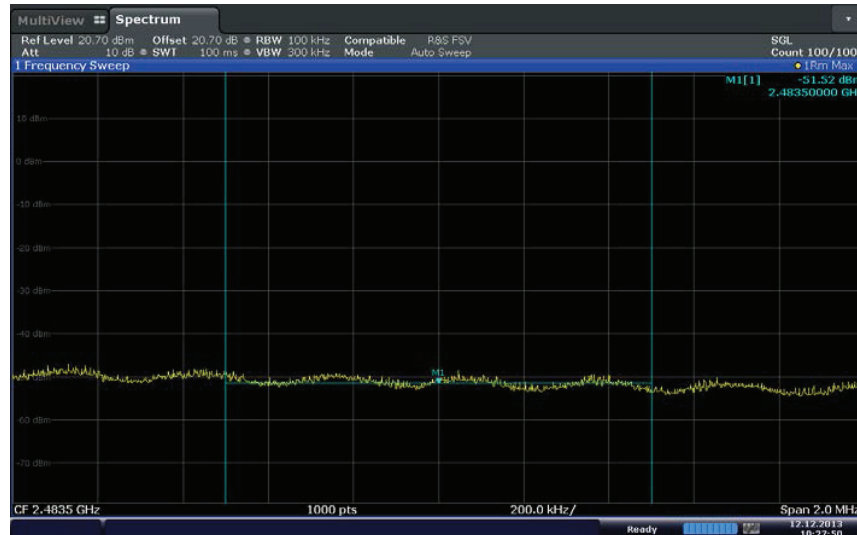
Bluetooth LE Low Channel (2402 MHz). Limit is -32.94 dBm. Margin is **-30.7 dB**.



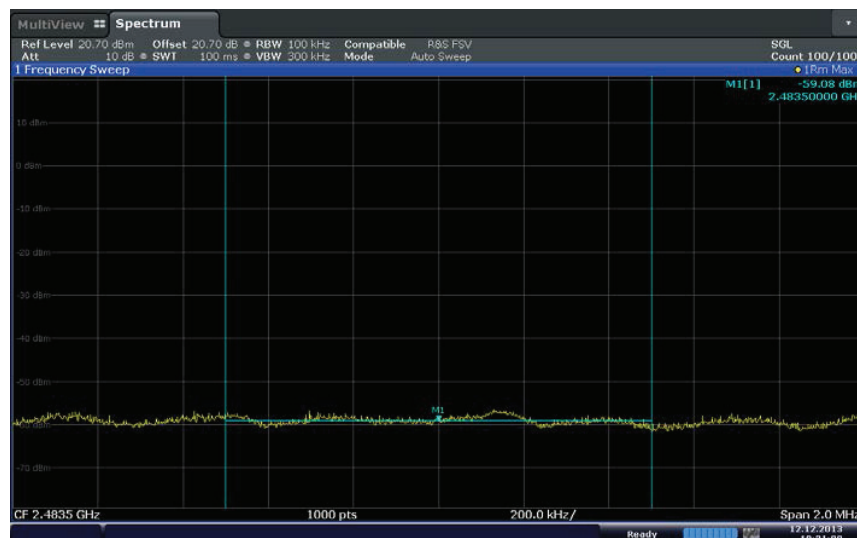
802.11b High Channel (2462 MHz). Limit is -27.83 dBm. Margin is -35 dB.



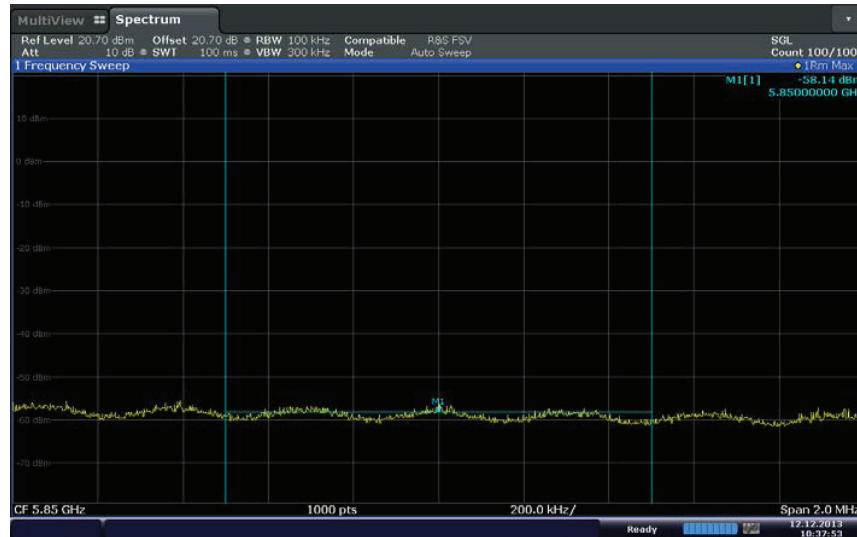
802.11g High Channel (2462 MHz). Limit is -32.1 dBm. Margin is -21.03 dB.



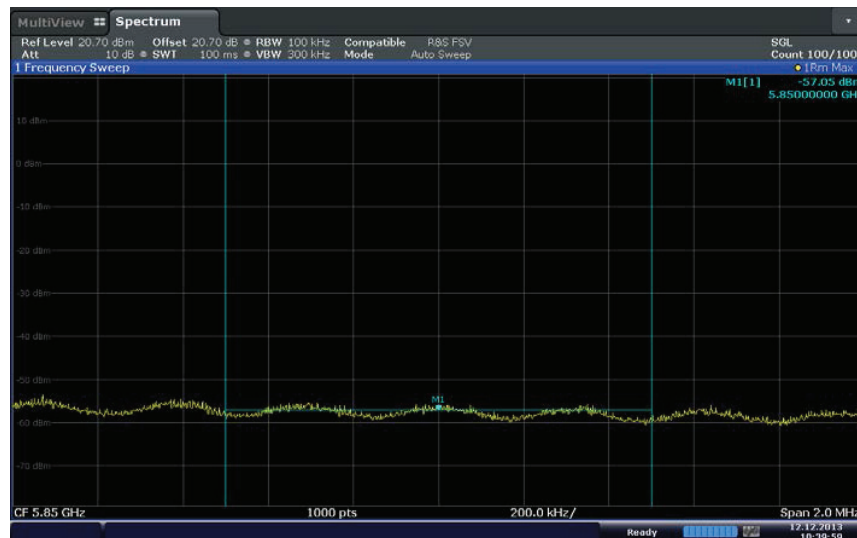
802.11n HT20 High Channel (2462 MHz). Limit is -29.73 dBm. Margin is **-21.79dB**.



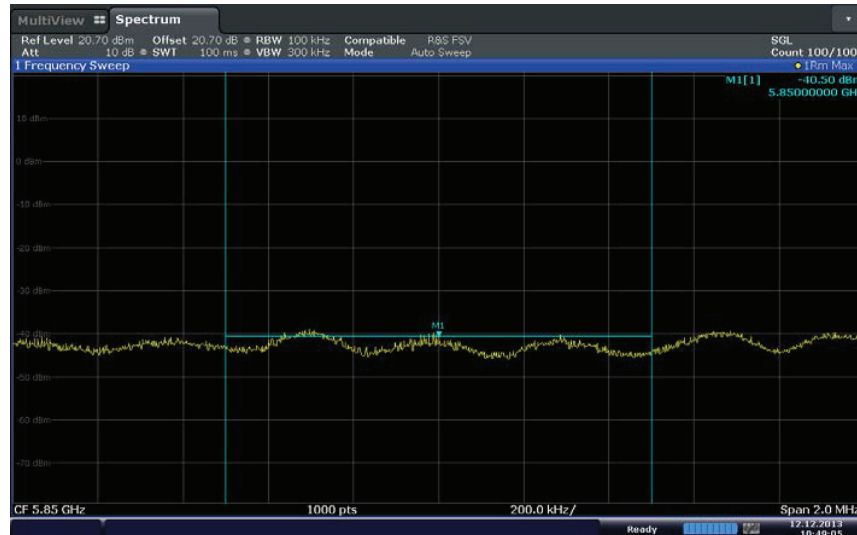
802.11n HT40 High Channel (2452 MHz). Limit is -36.14 dBm. Margin is **-22.94 dB**.



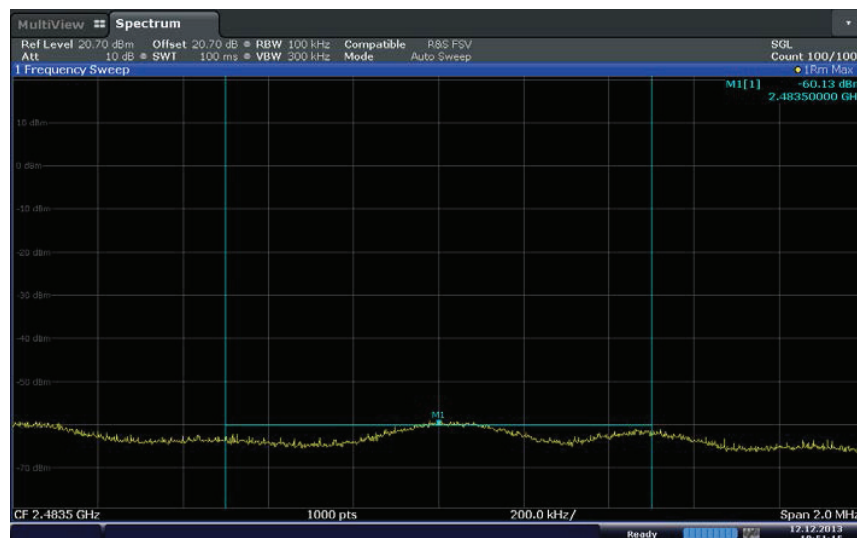
802.11a High Channel (5825 MHz). Limit is -34.77 dBm. Margin is **-23.37 dB**.



802.11n HT20 High Channel (5825 MHz). Limit is -32.94 dBm. Margin is **-24.11 dB**.



802.11n HT40 High Channel (5825 MHz). Limit is -36.14 dBm. Margin is **-4.36 dB**.



Bluetooth LE High Channel (2480 MHz). Limit is -23.95 dBm. Margin is **-36.18 dB**.



## **2.7 SPURIOUS RADIATED EMISSIONS**

### **2.7.1 Specification Reference**

Part 15 Subpart C §15.247(d)

### **2.7.2 Standard Applicable**

(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

### **2.7.3 Equipment Under Test and Modification State**

Serial No: 34008112 and 34008096/ Test Configuration B

### **2.7.4 Date of Test/Initial of test personnel who performed the test**

December 5 to 24, 2013/FSC

### **2.7.5 Test Equipment Used**

The major items of test equipment used for the above tests are identified in Section 3.1.

### **2.7.6 Environmental Conditions**

|                     |               |
|---------------------|---------------|
| Ambient Temperature | 25.4-25.8°C   |
| Relative Humidity   | 43.5-44.5%    |
| ATM Pressure        | 98.7-99.0 kPa |

### **2.7.7 Additional Observations**

- This is a radiated test. The spectrum was searched from 30MHz to the 10<sup>th</sup> harmonic.
- There are no emissions found that do not comply to the restricted bands defined in FCC Part 15 Subpart C, 15.205 or Part 15.247(d).
- Only the considered worst case WLAN configuration (802.11b, Mid Channel, 5.5Mbps) presented for radiated emissions below 1GHz. There are no significant differences in emissions between all modes below 1GHz.



- Only noise floor measurements observed above 18GHz.
- Measurement was done using EMC32 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only. See Section 2.7.8 for sample computation.

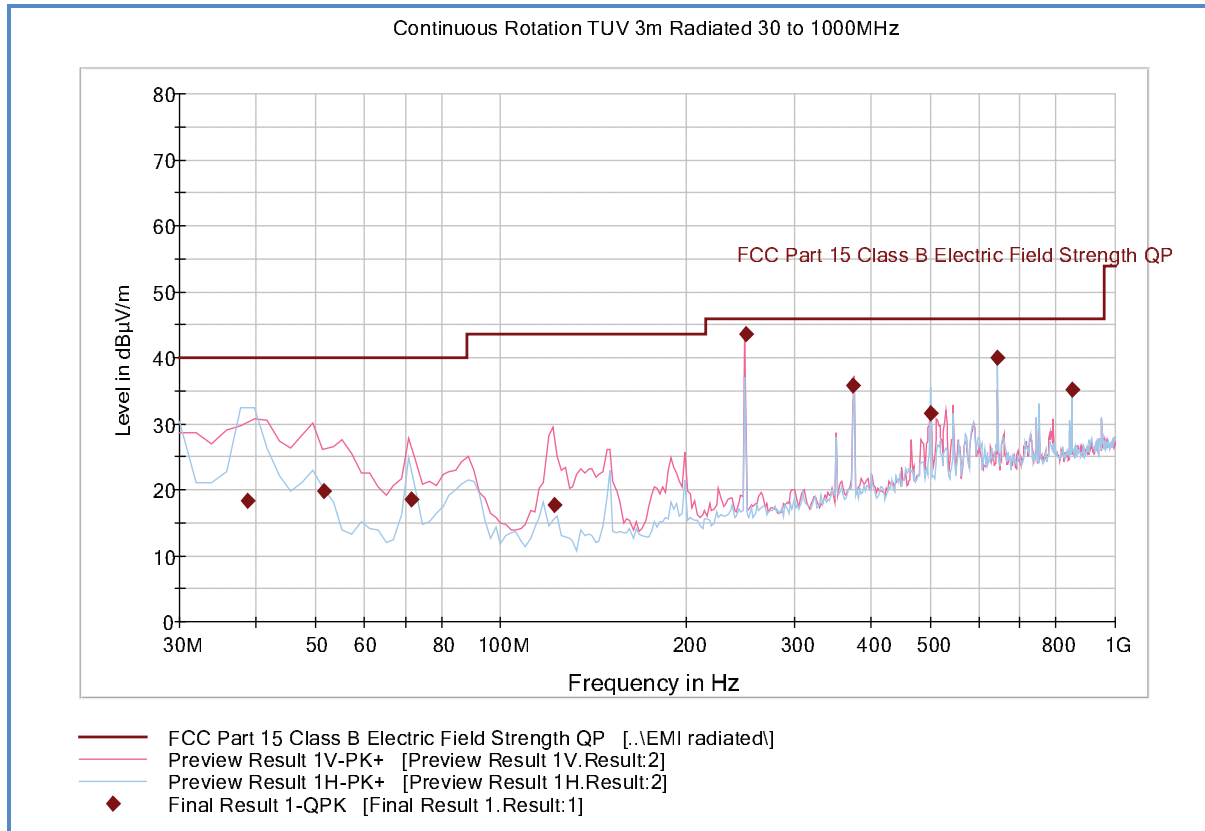
#### 2.7.8 Sample Computation (Radiated Emission)

|                                                             |                            |       |       |
|-------------------------------------------------------------|----------------------------|-------|-------|
| Measuring equipment raw measurement (db $\mu$ V) @ 30 MHz   |                            |       | 24.4  |
| Correction Factor (dB)                                      | Asset# 1066 (cable)        | 0.3   | -12.6 |
|                                                             | Asset# 1172 (cable)        | 0.3   |       |
|                                                             | Asset# 1016 (preamplifier) | -30.7 |       |
|                                                             | Asset# 1175(cable)         | 0.3   |       |
|                                                             | Asset# 1002 (antenna)      | 17.2  |       |
| Reported QuasiPeak Final Measurement (db $\mu$ V/m) @ 30MHz |                            |       | 11.8  |

#### 2.7.9 Test Results

See attached plots.

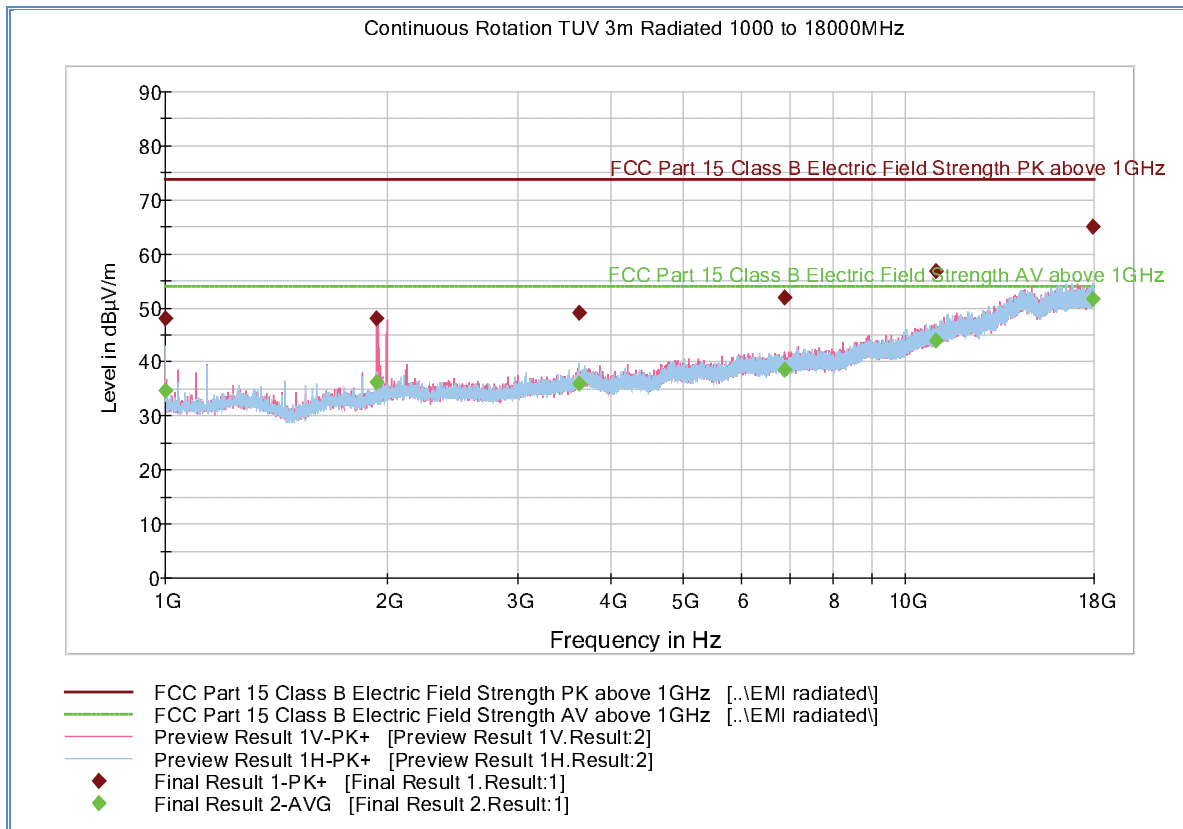
## 2.7.10 Test Results Below 1GHz (Receive Mode)



## Quasi Peak Data

| Frequency (MHz) | QuasiPeak (dBµV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBµV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 38.775551       | 18.4               | 1000.0          | 120.000         | 283.0       | H            | 342.0         | -15.5      | 21.6        | 40.0           |
| 51.438878       | 19.8               | 1000.0          | 120.000         | 109.0       | V            | 285.0         | -19.4      | 20.2        | 40.0           |
| 71.581643       | 18.4               | 1000.0          | 120.000         | 100.0       | V            | 307.0         | -21.3      | 21.6        | 40.0           |
| 122.322725      | 17.6               | 1000.0          | 120.000         | 106.0       | V            | -12.0         | -19.2      | 25.9        | 43.5           |
| 250.099319      | 43.5               | 1000.0          | 120.000         | 100.0       | V            | 46.0          | -12.6      | 2.5         | 46.0           |
| 374.812024      | 35.8               | 1000.0          | 120.000         | 145.0       | V            | 9.0           | -7.9       | 10.2        | 46.0           |
| 499.940842      | 31.6               | 1000.0          | 120.000         | 105.0       | H            | 284.0         | -5.1       | 14.4        | 46.0           |
| 643.468537      | 40.0               | 1000.0          | 120.000         | 105.0       | H            | 213.0         | -2.1       | 6.0         | 46.0           |
| 849.960641      | 35.1               | 1000.0          | 120.000         | 100.0       | H            | 235.0         | 1.1        | 10.9        | 46.0           |

## 2.7.11 Test Results Above 1GHz (Receive Mode)



### Peak Data

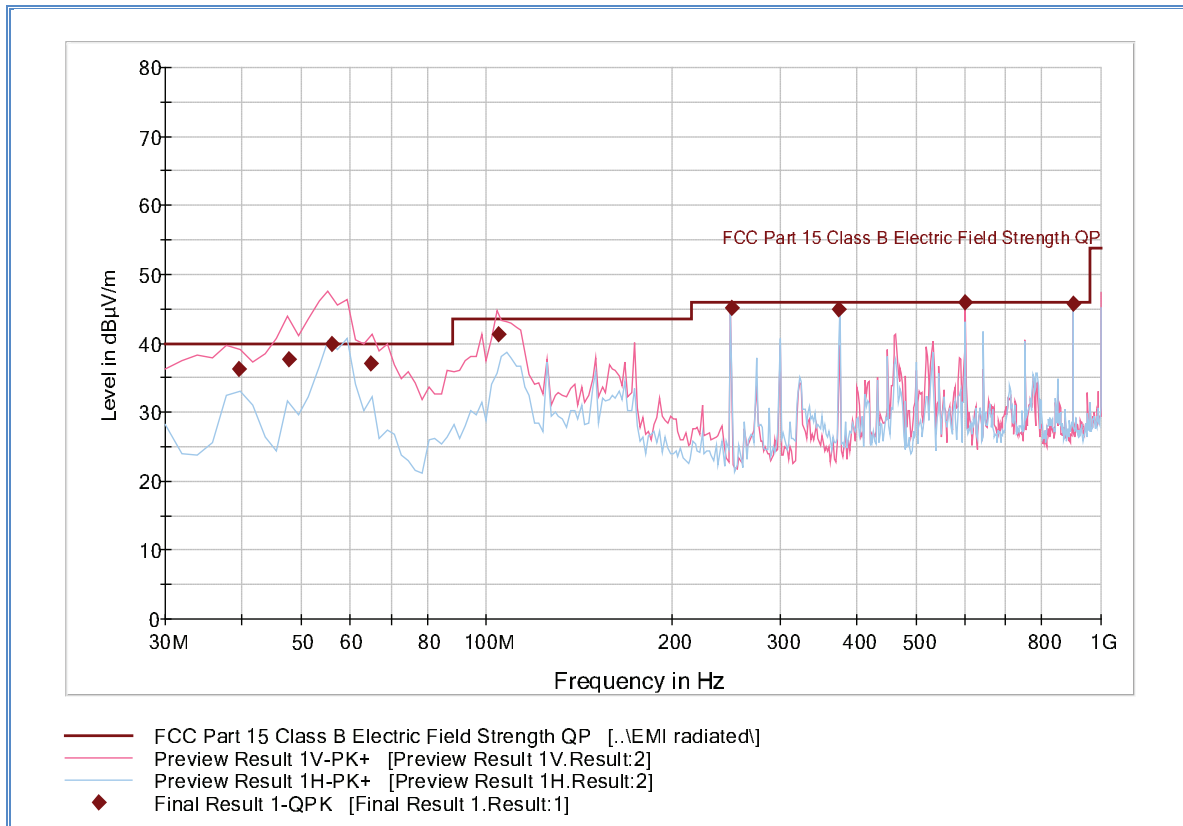
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 48.2             | 1000.0          | 1000.000        | 300.6       | H            | 87.0          | -1.0       | 25.7        | 73.9           |
| 1932.566667     | 48.2             | 1000.0          | 1000.000        | 257.3       | V            | 178.0         | 1.8        | 25.7        | 73.9           |
| 3624.066667     | 49.2             | 1000.0          | 1000.000        | 260.3       | H            | -10.0         | 5.7        | 24.7        | 73.9           |
| 6866.733333     | 51.9             | 1000.0          | 1000.000        | 202.4       | V            | 243.0         | 10.5       | 22.0        | 73.9           |
| 10998.63333     | 56.9             | 1000.0          | 1000.000        | 201.4       | H            | 293.0         | 16.3       | 17.0        | 73.9           |
| 17902.66666     | 64.9             | 1000.0          | 1000.000        | 259.3       | V            | 122.0         | 23.7       | 9.0         | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 34.7             | 1000.0          | 1000.000        | 300.6       | H            | 87.0          | -1.0       | 19.2        | 53.9           |
| 1932.566667     | 36.3             | 1000.0          | 1000.000        | 257.3       | V            | 178.0         | 1.8        | 17.6        | 53.9           |
| 3624.066667     | 35.9             | 1000.0          | 1000.000        | 260.3       | H            | -10.0         | 5.7        | 18.0        | 53.9           |
| 6866.733333     | 38.6             | 1000.0          | 1000.000        | 202.4       | V            | 243.0         | 10.5       | 15.3        | 53.9           |
| 10998.63333     | 44.0             | 1000.0          | 1000.000        | 201.4       | H            | 293.0         | 16.3       | 9.9         | 53.9           |
| 17902.66666     | 51.6             | 1000.0          | 1000.000        | 259.3       | V            | 122.0         | 23.7       | 2.3         | 53.9           |

**Test Notes:** No significant emissions observed above 18GHz.

## 2.7.12 Test Results Below 1GHz (WLAN worst Case Configuration)

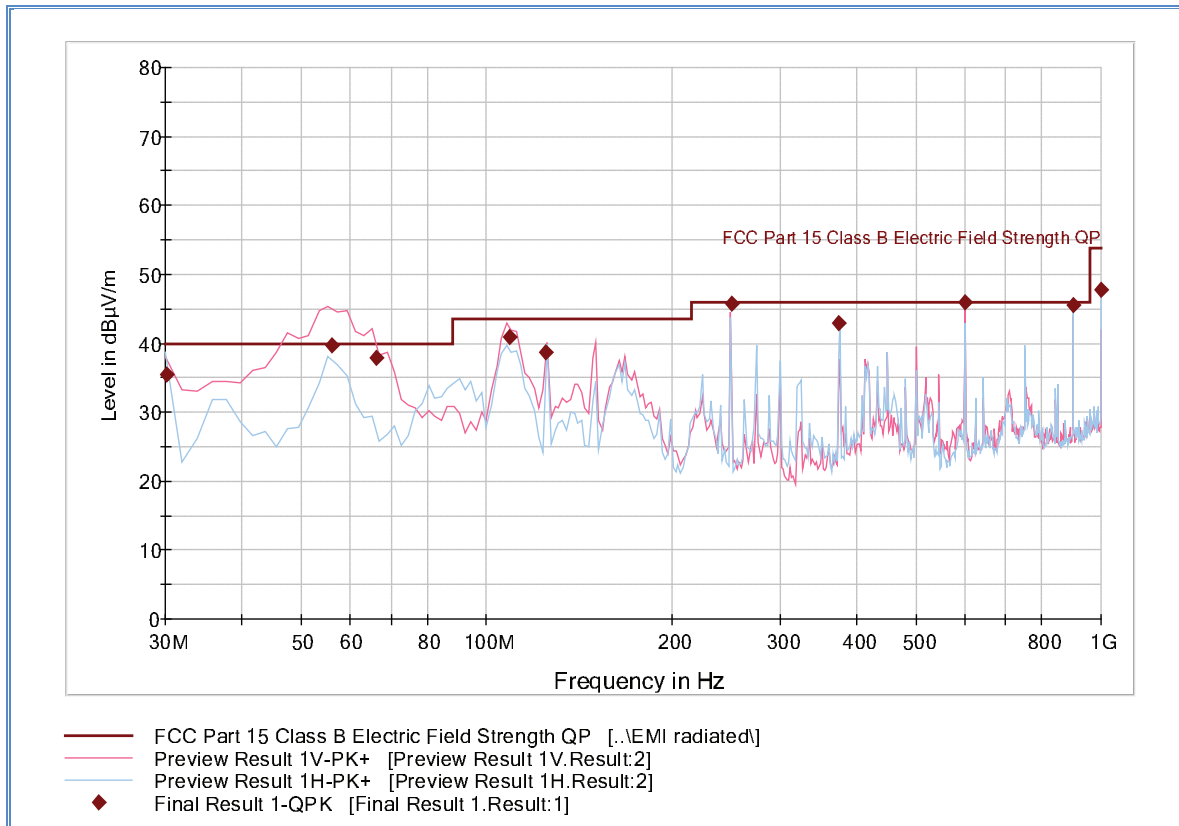


### Quasi Peak Data

| Frequency (MHz) | QuasiPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 39.535551       | 36.3               | 1000.0          | 120.000         | 100.0       | V            | 193.0         | -15.8      | 3.7         | 40.0           |
| 47.774990       | 37.6               | 1000.0          | 120.000         | 100.0       | V            | 284.0         | -18.6      | 2.4         | 40.0           |
| 55.870541       | 39.8               | 1000.0          | 120.000         | 100.0       | V            | 86.0          | -20.2      | 0.2         | 40.0           |
| 64.789980       | 37.0               | 1000.0          | 120.000         | 100.0       | V            | 193.0         | -21.2      | 3.0         | 40.0           |
| 104.707735      | 41.4               | 1000.0          | 120.000         | 100.0       | V            | 3.0           | -18.6      | 2.1         | 43.5           |
| 249.979319      | 45.2               | 1000.0          | 120.000         | 100.0       | V            | 39.0          | -12.6      | 0.8         | 46.0           |
| 374.972024      | 45.0               | 1000.0          | 120.000         | 105.0       | H            | 211.0         | -7.9       | 1.0         | 46.0           |
| 600.023006      | 46.0               | 1000.0          | 120.000         | 100.0       | V            | 177.0         | -2.8       | 0.0         | 46.0           |
| 900.021723      | 45.8               | 1000.0          | 120.000         | 100.0       | H            | 170.0         | 2.0        | 0.2         | 46.0           |

**Test Notes:** Only worst case channel presented for spurious emissions below 1GHz.

### 2.7.13 Test Results Below 1GHz (Bluetooth LE)

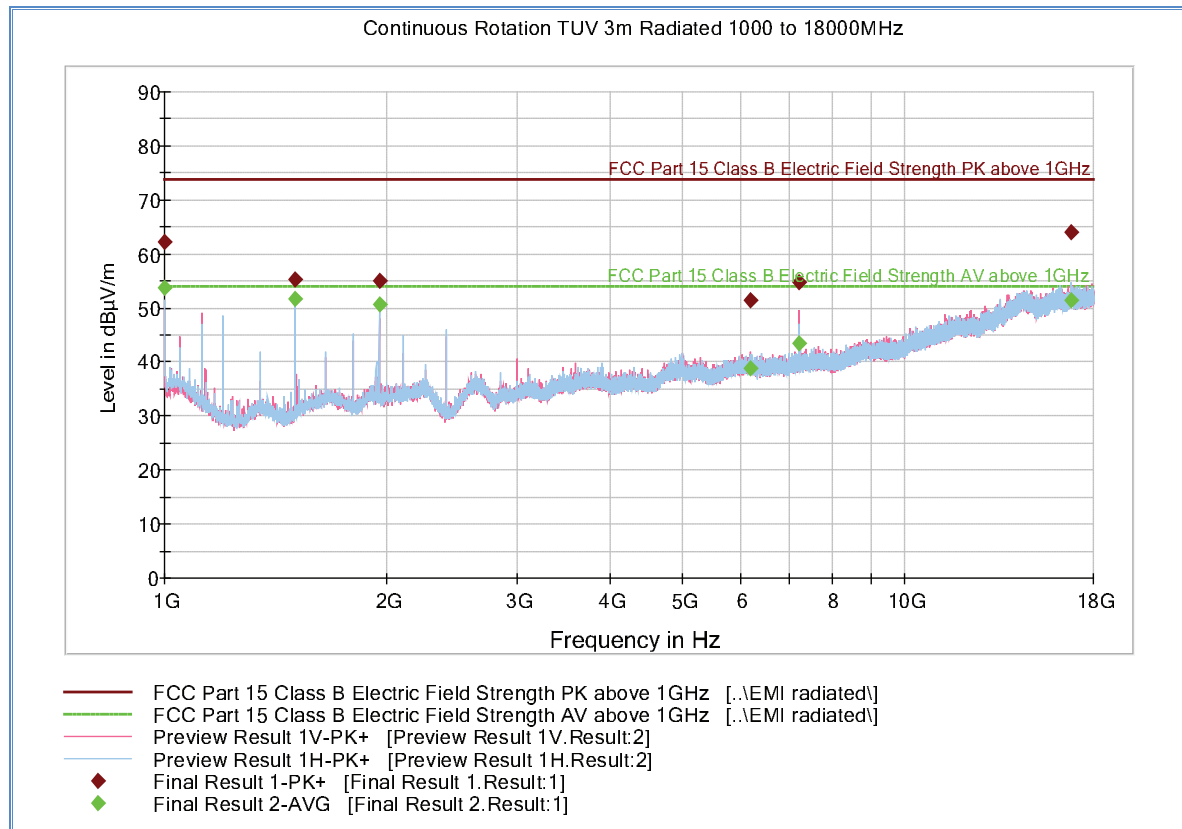


### Quasi Peak Data

| Frequency (MHz) | QuasiPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|--------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 30.200000       | 35.5               | 1000.0          | 120.000         | 127.0       | H            | 11.0          | -10.7      | 4.5         | 40.0           |
| 56.030541       | 39.7               | 1000.0          | 120.000         | 100.0       | V            | 189.0         | -20.3      | 0.3         | 40.0           |
| 66.309980       | 37.9               | 1000.0          | 120.000         | 100.0       | V            | 87.0          | -21.3      | 2.1         | 40.0           |
| 108.795511      | 41.0               | 1000.0          | 120.000         | 105.0       | V            | 208.0         | -18.6      | 2.5         | 43.5           |
| 124.970501      | 38.6               | 1000.0          | 120.000         | 100.0       | V            | 99.0          | -19.3      | 4.9         | 43.5           |
| 249.979319      | 45.8               | 1000.0          | 120.000         | 100.0       | V            | 197.0         | -12.6      | 0.2         | 46.0           |
| 375.012024      | 42.9               | 1000.0          | 120.000         | 100.0       | H            | 310.0         | -7.9       | 3.1         | 46.0           |
| 600.023006      | 46.0               | 1000.0          | 120.000         | 100.0       | V            | 166.0         | -2.8       | 0.0         | 46.0           |
| 900.021723      | 45.5               | 1000.0          | 120.000         | 100.0       | H            | 35.0          | 2.0        | 0.5         | 46.0           |
| 999.960000      | 47.8               | 1000.0          | 120.000         | 100.0       | H            | 51.0          | 3.3        | 6.1         | 53.9           |

**Test Notes:** Only worst case channel presented for spurious emissions below 1GHz.

## 2.7.14 Test Results Above 1GHz (Bluetooth LE Low Channel)



### Peak Data

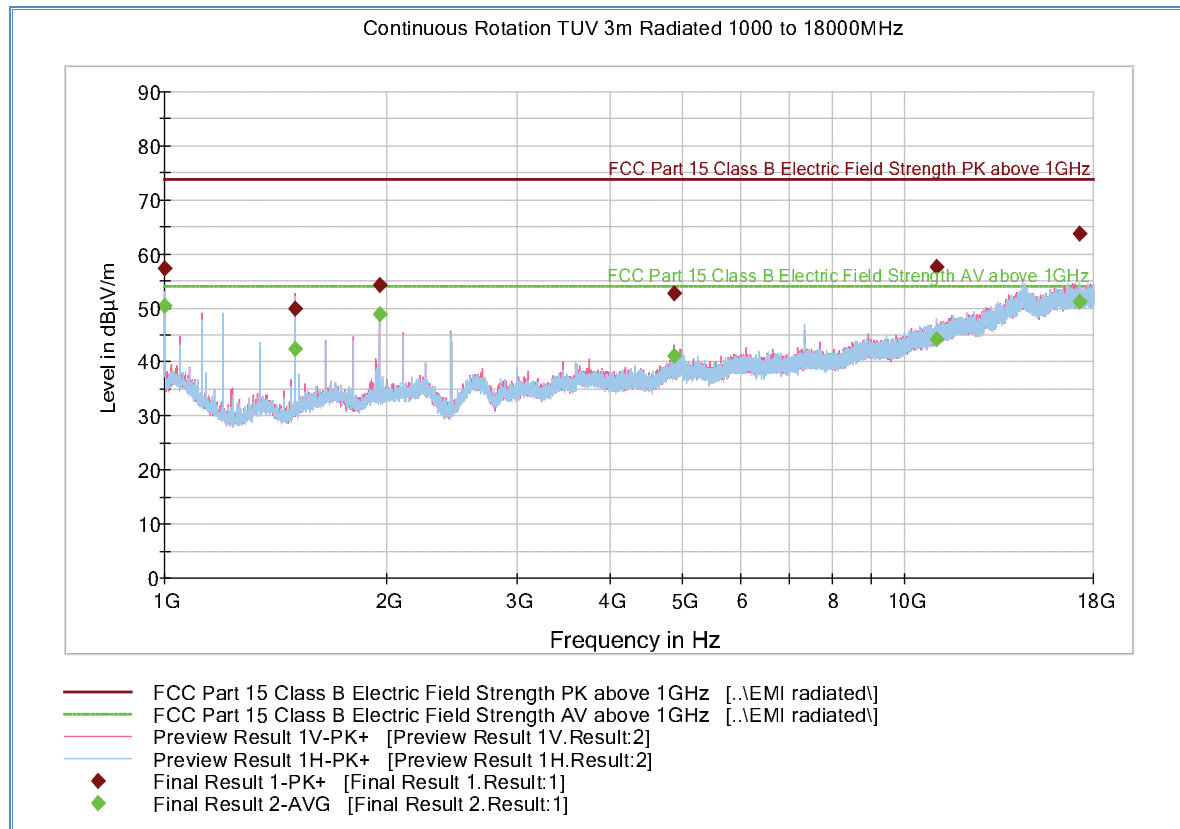
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 62.3             | 1000.0          | 1000.000        | 178.5       | H            | 290.0         | -1.0       | 11.6        | 73.9           |
| 1500.000000     | 55.4             | 1000.0          | 1000.000        | 99.6        | H            | 16.0          | -1.9       | 18.5        | 73.9           |
| 1949.933333     | 55.0             | 1000.0          | 1000.000        | 99.6        | H            | 217.0         | 1.9        | 18.9        | 73.9           |
| 6181.633333     | 51.3             | 1000.0          | 1000.000        | 372.1       | V            | 291.0         | 10.4       | 22.6        | 73.9           |
| 7205.366667     | 54.8             | 1000.0          | 1000.000        | 167.5       | V            | 331.0         | 11.1       | 19.1        | 73.9           |
| 16814.333333    | 64.1             | 1000.0          | 1000.000        | 179.5       | H            | 132.0         | 23.4       | 9.8         | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 53.9             | 1000.0          | 1000.000        | 178.5       | H            | 290.0         | -1.0       | 0.0         | 53.9           |
| 1500.000000     | 51.7             | 1000.0          | 1000.000        | 99.6        | H            | 16.0          | -1.9       | 2.2         | 53.9           |
| 1949.933333     | 50.7             | 1000.0          | 1000.000        | 99.6        | H            | 217.0         | 1.9        | 3.2         | 53.9           |
| 6181.633333     | 38.8             | 1000.0          | 1000.000        | 372.1       | V            | 291.0         | 10.4       | 15.1        | 53.9           |
| 7205.366667     | 43.3             | 1000.0          | 1000.000        | 167.5       | V            | 331.0         | 11.1       | 10.6        | 53.9           |
| 16814.333333    | 51.4             | 1000.0          | 1000.000        | 179.5       | H            | 132.0         | 23.4       | 2.5         | 53.9           |

**Test Notes:** Measurement was performed with a 2.4GHz notch filter. No significant emissions observed above 8GHz. Measurements above 8GHz are noise floor figures.

## 2.7.15 Test Results Above 1GHz (Bluetooth LE Mid Channel)



### Peak Data

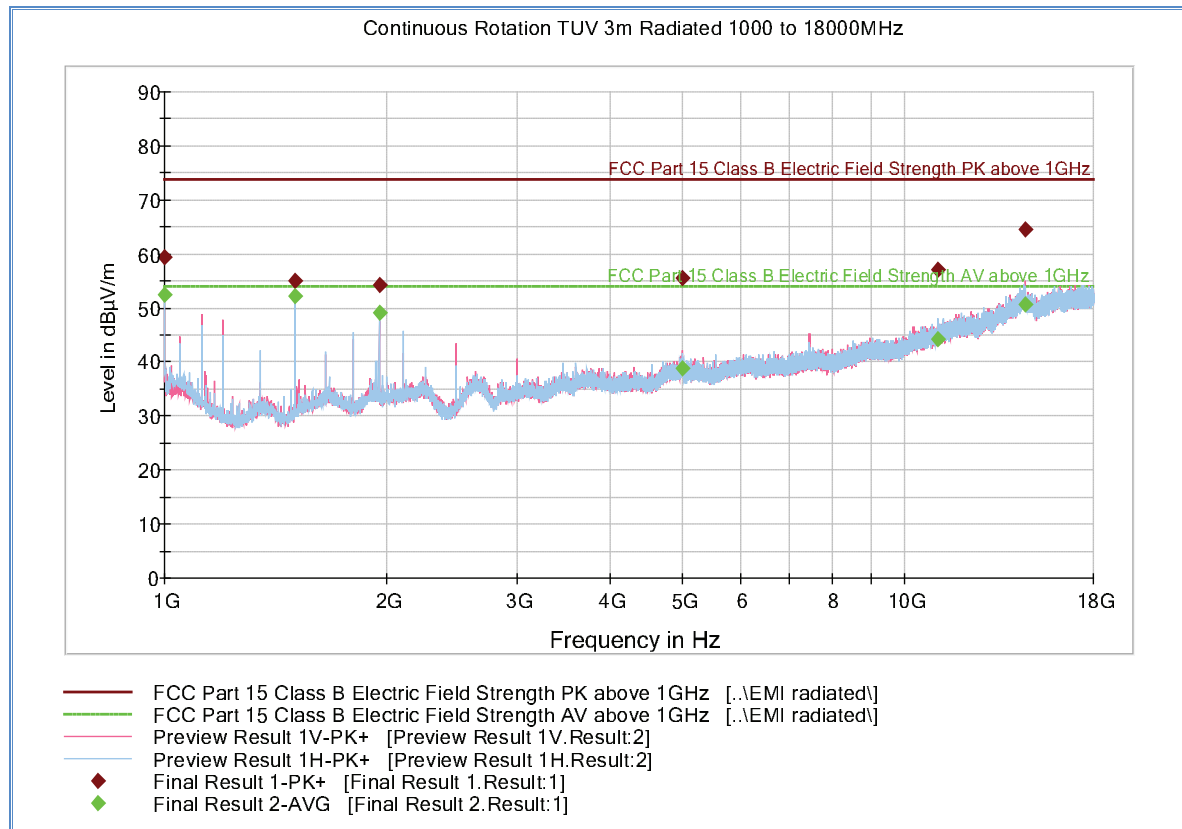
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 57.4             | 1000.0          | 1000.000        | 358.1       | H            | 268.0         | -1.0       | 16.5        | 73.9           |
| 1499.800000     | 49.8             | 1000.0          | 1000.000        | 131.6       | V            | 20.0          | -1.9       | 24.1        | 73.9           |
| 1950.333333     | 54.4             | 1000.0          | 1000.000        | 99.6        | H            | 218.0         | 1.9        | 19.5        | 73.9           |
| 4879.600000     | 52.8             | 1000.0          | 1000.000        | 368.1       | V            | 69.0          | 7.8        | 21.1        | 73.9           |
| 11041.366667    | 57.6             | 1000.0          | 1000.000        | 258.3       | H            | 141.0         | 16.4       | 16.3        | 73.9           |
| 17248.966667    | 63.8             | 1000.0          | 1000.000        | 410.7       | H            | 107.0         | 23.1       | 10.1        | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 50.4             | 1000.0          | 1000.000        | 358.1       | H            | 268.0         | -1.0       | 3.5         | 53.9           |
| 1499.800000     | 42.3             | 1000.0          | 1000.000        | 131.6       | V            | 20.0          | -1.9       | 11.6        | 53.9           |
| 1950.333333     | 49.0             | 1000.0          | 1000.000        | 99.6        | H            | 218.0         | 1.9        | 4.9         | 53.9           |
| 4879.600000     | 41.1             | 1000.0          | 1000.000        | 368.1       | V            | 69.0          | 7.8        | 12.8        | 53.9           |
| 11041.366667    | 44.2             | 1000.0          | 1000.000        | 258.3       | H            | 141.0         | 16.4       | 9.7         | 53.9           |
| 17248.966667    | 51.2             | 1000.0          | 1000.000        | 410.7       | H            | 107.0         | 23.1       | 2.7         | 53.9           |

**Test Notes:** Measurement was performed with a 2.4GHz notch filter. No significant emissions observed above 8GHz. Measurements above 8GHz are noise floor figures.

## 2.7.16 Test Results Above 1GHz (Bluetooth LE High Channel)



### Peak Data

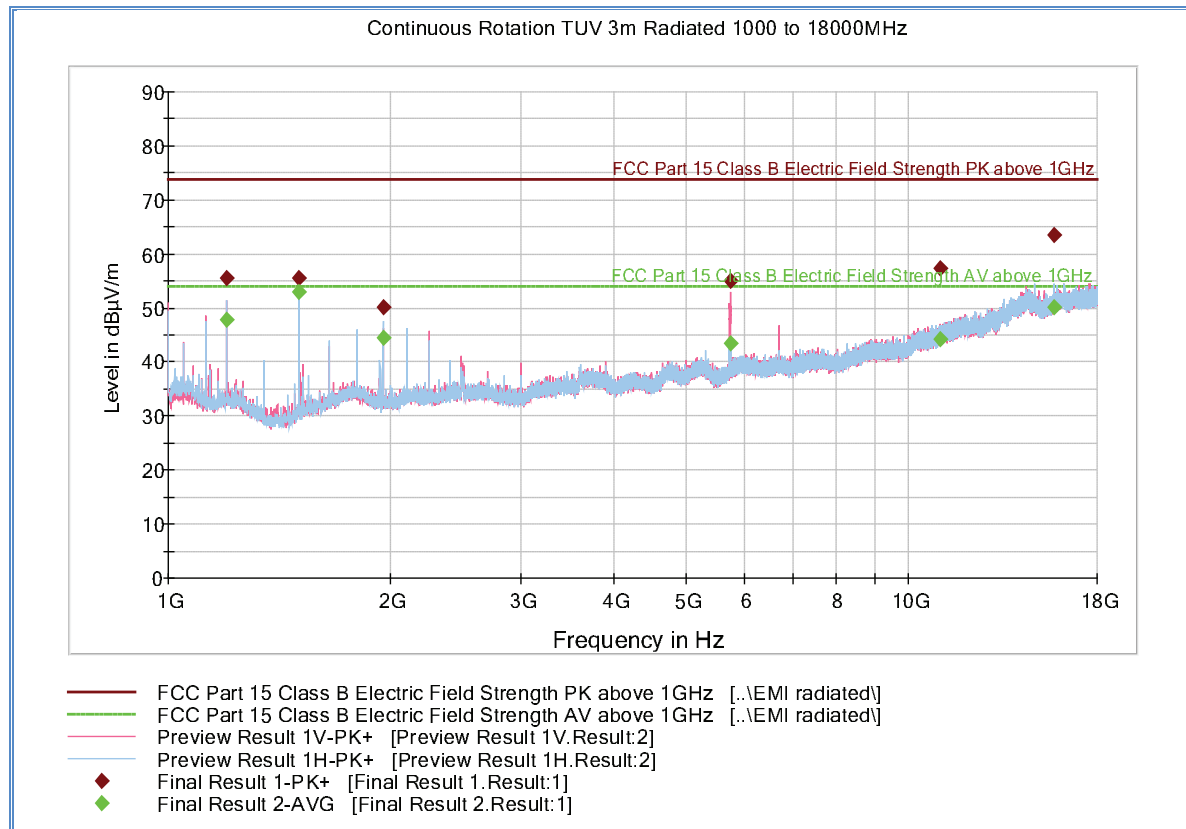
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 59.3             | 1000.0          | 1000.000        | 114.6       | H            | 87.0          | -1.0       | 14.6        | 73.9           |
| 1500.000000     | 55.0             | 1000.0          | 1000.000        | 99.6        | H            | 200.0         | -1.9       | 18.9        | 73.9           |
| 1949.733333     | 54.3             | 1000.0          | 1000.000        | 100.6       | H            | 212.0         | 1.9        | 19.6        | 73.9           |
| 5010.833333     | 55.5             | 1000.0          | 1000.000        | 202.4       | V            | 181.0         | 7.9        | 18.4        | 73.9           |
| 11115.800000    | 57.0             | 1000.0          | 1000.000        | 101.6       | H            | 340.0         | 16.6       | 16.9        | 73.9           |
| 14537.500000    | 64.5             | 1000.0          | 1000.000        | 197.4       | V            | 92.0          | 22.9       | 9.4         | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 52.5             | 1000.0          | 1000.000        | 114.6       | H            | 87.0          | -1.0       | 1.4         | 53.9           |
| 1500.000000     | 52.1             | 1000.0          | 1000.000        | 99.6        | H            | 200.0         | -1.9       | 1.8         | 53.9           |
| 1949.733333     | 49.0             | 1000.0          | 1000.000        | 100.6       | H            | 212.0         | 1.9        | 4.9         | 53.9           |
| 5010.833333     | 38.8             | 1000.0          | 1000.000        | 202.4       | V            | 181.0         | 7.9        | 15.1        | 53.9           |
| 11115.800000    | 44.3             | 1000.0          | 1000.000        | 101.6       | H            | 340.0         | 16.6       | 9.6         | 53.9           |
| 14537.500000    | 50.6             | 1000.0          | 1000.000        | 197.4       | V            | 92.0          | 22.9       | 3.3         | 53.9           |

**Test Notes:** Measurement was performed with a 2.4GHz notch filter. No significant emissions observed above 6GHz. Measurements above 6GHz are noise floor figures.

## 2.7.17 Test Results Above 1GHz (802.11a Low Channel)



### Peak Data

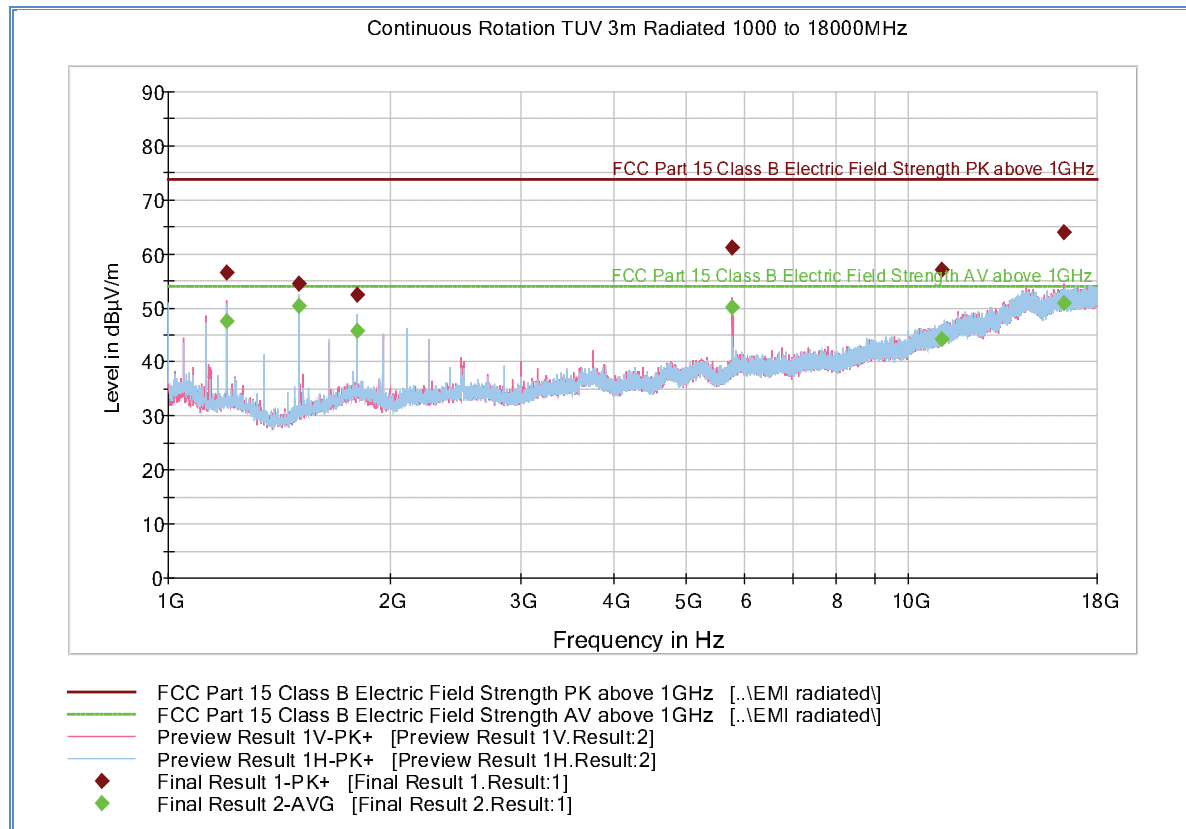
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1199.833333     | 55.6             | 1000.0          | 1000.000        | 99.6        | H            | 337.0         | -1.5       | 18.3        | 73.9           |
| 1500.000000     | 55.7             | 1000.0          | 1000.000        | 99.6        | H            | 201.0         | -1.9       | 18.2        | 73.9           |
| 1949.933333     | 50.1             | 1000.0          | 1000.000        | 115.6       | H            | 201.0         | 1.9        | 23.8        | 73.9           |
| 5744.566667     | 55.1             | 1000.0          | 1000.000        | 227.3       | V            | 10.0          | 9.4        | 18.8        | 73.9           |
| 11040.000000    | 57.2             | 1000.0          | 1000.000        | 134.6       | V            | 286.0         | 16.4       | 16.7        | 73.9           |
| 15755.800000    | 63.6             | 1000.0          | 1000.000        | 302.2       | H            | 0.0           | 22.5       | 10.3        | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1199.833333     | 47.9             | 1000.0          | 1000.000        | 99.6        | H            | 337.0         | -1.5       | 6.0         | 53.9           |
| 1500.000000     | 52.9             | 1000.0          | 1000.000        | 99.6        | H            | 201.0         | -1.9       | 1.0         | 53.9           |
| 1949.933333     | 44.6             | 1000.0          | 1000.000        | 115.6       | H            | 201.0         | 1.9        | 9.3         | 53.9           |
| 5744.566667     | 43.4             | 1000.0          | 1000.000        | 227.3       | V            | 10.0          | 9.4        | 10.5        | 53.9           |
| 11040.000000    | 44.2             | 1000.0          | 1000.000        | 134.6       | V            | 286.0         | 16.4       | 9.7         | 53.9           |
| 15755.800000    | 50.2             | 1000.0          | 1000.000        | 302.2       | H            | 0.0           | 22.5       | 3.7         | 53.9           |

**Test Notes:** Measurement was performed with a 5.0GHz notch filter. No significant emissions observed above 8GHz. Measurements above 8GHz are noise floor figures.

## 2.7.18 Test Results Above 1GHz (802.11a Mid Channel)



### Peak Data

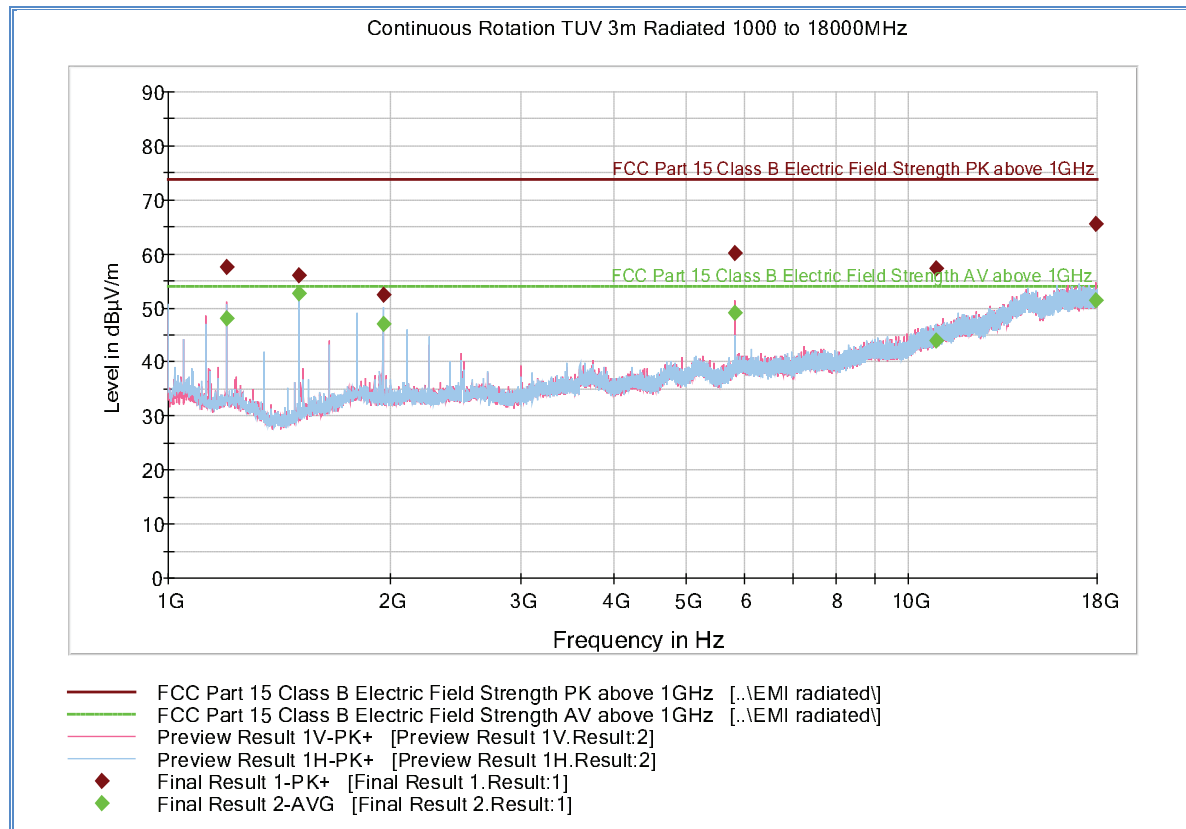
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1199.833333     | 56.6             | 1000.0          | 1000.000        | 99.6        | V            | 3.0           | -1.5       | 17.3        | 73.9           |
| 1500.000000     | 54.6             | 1000.0          | 1000.000        | 102.6       | H            | 20.0          | -1.9       | 19.3        | 73.9           |
| 1799.966667     | 52.5             | 1000.0          | 1000.000        | 114.6       | H            | 224.0         | 1.0        | 21.4        | 73.9           |
| 5786.833333     | 61.1             | 1000.0          | 1000.000        | 198.4       | V            | 49.0          | 9.5        | 12.8        | 73.9           |
| 11097.266667    | 57.0             | 1000.0          | 1000.000        | 347.1       | H            | 260.0         | 16.6       | 16.9        | 73.9           |
| 16251.100000    | 64.0             | 1000.0          | 1000.000        | 115.6       | V            | 24.0          | 23.0       | 9.9         | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1199.833333     | 47.5             | 1000.0          | 1000.000        | 99.6        | V            | 3.0           | -1.5       | 6.4         | 53.9           |
| 1500.000000     | 50.3             | 1000.0          | 1000.000        | 102.6       | H            | 20.0          | -1.9       | 3.6         | 53.9           |
| 1799.966667     | 45.7             | 1000.0          | 1000.000        | 114.6       | H            | 224.0         | 1.0        | 8.2         | 53.9           |
| 5786.833333     | 50.1             | 1000.0          | 1000.000        | 198.4       | V            | 49.0          | 9.5        | 3.8         | 53.9           |
| 11097.266667    | 44.2             | 1000.0          | 1000.000        | 347.1       | H            | 260.0         | 16.6       | 9.7         | 53.9           |
| 16251.100000    | 51.0             | 1000.0          | 1000.000        | 115.6       | V            | 24.0          | 23.0       | 2.9         | 53.9           |

**Test Notes:** Measurement was performed with a 5.0GHz notch filter. No significant emissions observed above 8GHz. Measurements above 8GHz are noise floor figures.

## 2.7.19 Test Results Above 1GHz (802.11a High Channel)



### Peak Data

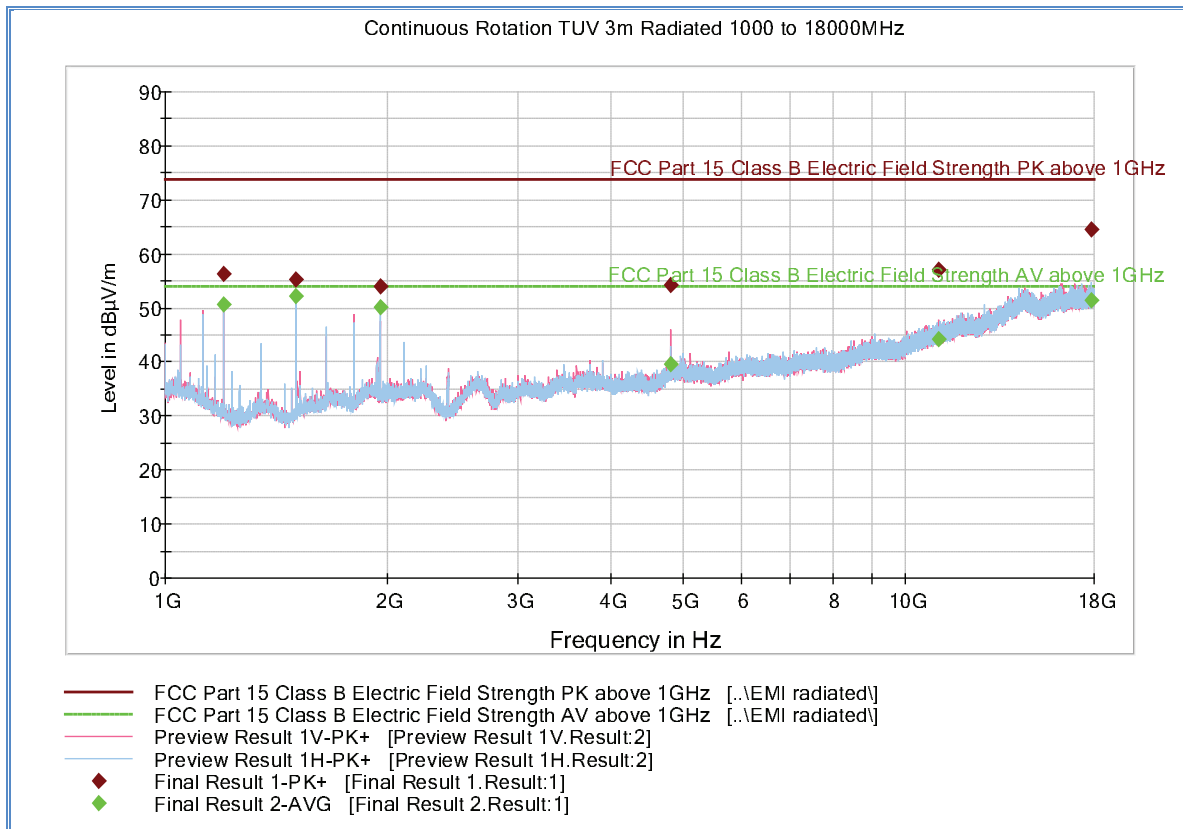
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1199.833333     | 57.5             | 1000.0          | 1000.000        | 99.6        | V            | 0.0           | -1.5       | 16.4        | 73.9           |
| 1500.000000     | 55.9             | 1000.0          | 1000.000        | 99.6        | H            | 15.0          | -1.9       | 18.0        | 73.9           |
| 1950.333333     | 52.5             | 1000.0          | 1000.000        | 100.6       | H            | 215.0         | 1.9        | 21.4        | 73.9           |
| 5823.666667     | 60.2             | 1000.0          | 1000.000        | 178.5       | V            | 90.0          | 9.6        | 13.7        | 73.9           |
| 10928.200000    | 57.2             | 1000.0          | 1000.000        | 101.6       | H            | 270.0         | 16.1       | 16.7        | 73.9           |
| 17954.900000    | 65.6             | 1000.0          | 1000.000        | 406.7       | V            | 16.0          | 23.8       | 8.3         | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1199.833333     | 48.1             | 1000.0          | 1000.000        | 99.6        | V            | 0.0           | -1.5       | 5.8         | 53.9           |
| 1500.000000     | 52.6             | 1000.0          | 1000.000        | 99.6        | H            | 15.0          | -1.9       | 1.3         | 53.9           |
| 1950.333333     | 47.2             | 1000.0          | 1000.000        | 100.6       | H            | 215.0         | 1.9        | 6.7         | 53.9           |
| 5823.666667     | 49.1             | 1000.0          | 1000.000        | 178.5       | V            | 90.0          | 9.6        | 4.8         | 53.9           |
| 10928.200000    | 43.8             | 1000.0          | 1000.000        | 101.6       | H            | 270.0         | 16.1       | 10.1        | 53.9           |
| 17954.900000    | 51.5             | 1000.0          | 1000.000        | 406.7       | V            | 16.0          | 23.8       | 2.4         | 53.9           |

**Test Notes:** Measurement was performed with a 5.0GHz notch filter. No significant emissions observed above 8GHz. Measurements above 8GHz are noise floor figures.

## 2.7.20 Test Results Above 1GHz (802.11b Low Channel)



### Peak Data

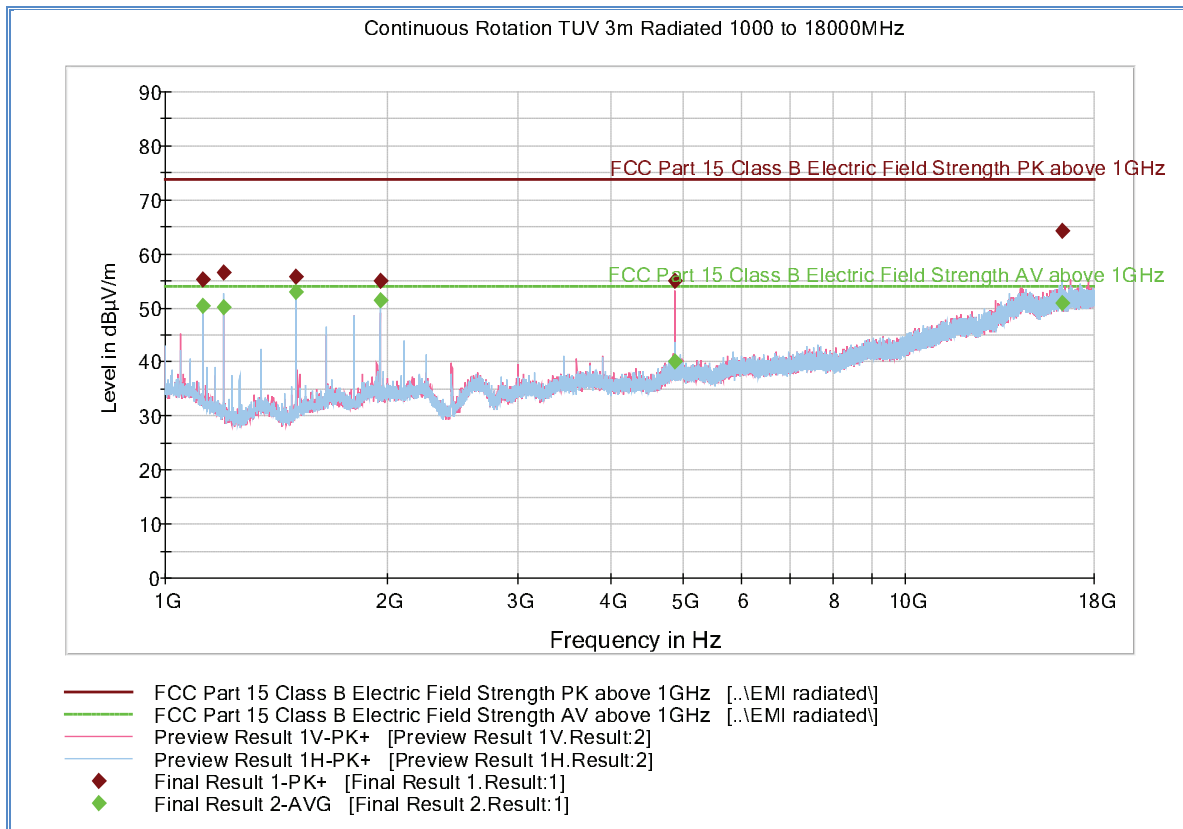
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1199.833333     | 56.4             | 1000.0          | 1000.000        | 100.6       | H            | 157.0         | -1.5       | 17.5        | 73.9           |
| 1500.000000     | 55.3             | 1000.0          | 1000.000        | 99.6        | H            | 27.0          | -1.9       | 18.6        | 73.9           |
| 1950.133333     | 54.0             | 1000.0          | 1000.000        | 152.5       | H            | 229.0         | 1.9        | 19.9        | 73.9           |
| 4824.066667     | 54.4             | 1000.0          | 1000.000        | 132.6       | V            | 68.0          | 7.8        | 19.5        | 73.9           |
| 11075.866667    | 57.0             | 1000.0          | 1000.000        | 316.1       | V            | 334.0         | 16.5       | 16.9        | 73.9           |
| 17834.500000    | 64.6             | 1000.0          | 1000.000        | 99.6        | H            | 290.0         | 23.6       | 9.3         | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1199.833333     | 50.7             | 1000.0          | 1000.000        | 100.6       | H            | 157.0         | -1.5       | 3.2         | 53.9           |
| 1500.000000     | 52.2             | 1000.0          | 1000.000        | 99.6        | H            | 27.0          | -1.9       | 1.7         | 53.9           |
| 1950.133333     | 50.3             | 1000.0          | 1000.000        | 152.5       | H            | 229.0         | 1.9        | 3.6         | 53.9           |
| 4824.066667     | 39.6             | 1000.0          | 1000.000        | 132.6       | V            | 68.0          | 7.8        | 14.3        | 53.9           |
| 11075.866667    | 44.2             | 1000.0          | 1000.000        | 316.1       | V            | 334.0         | 16.5       | 9.7         | 53.9           |
| 17834.500000    | 51.3             | 1000.0          | 1000.000        | 99.6        | H            | 290.0         | 23.6       | 2.6         | 53.9           |

**Test Notes:** Measurement was performed with a 2.4GHz notch filter. No significant emissions observed above 6GHz. Measurements above 6GHz are noise floor figures.

## 2.7.21 Test Results Above 1GHz (802.11b Mid Channel)



### Peak Data

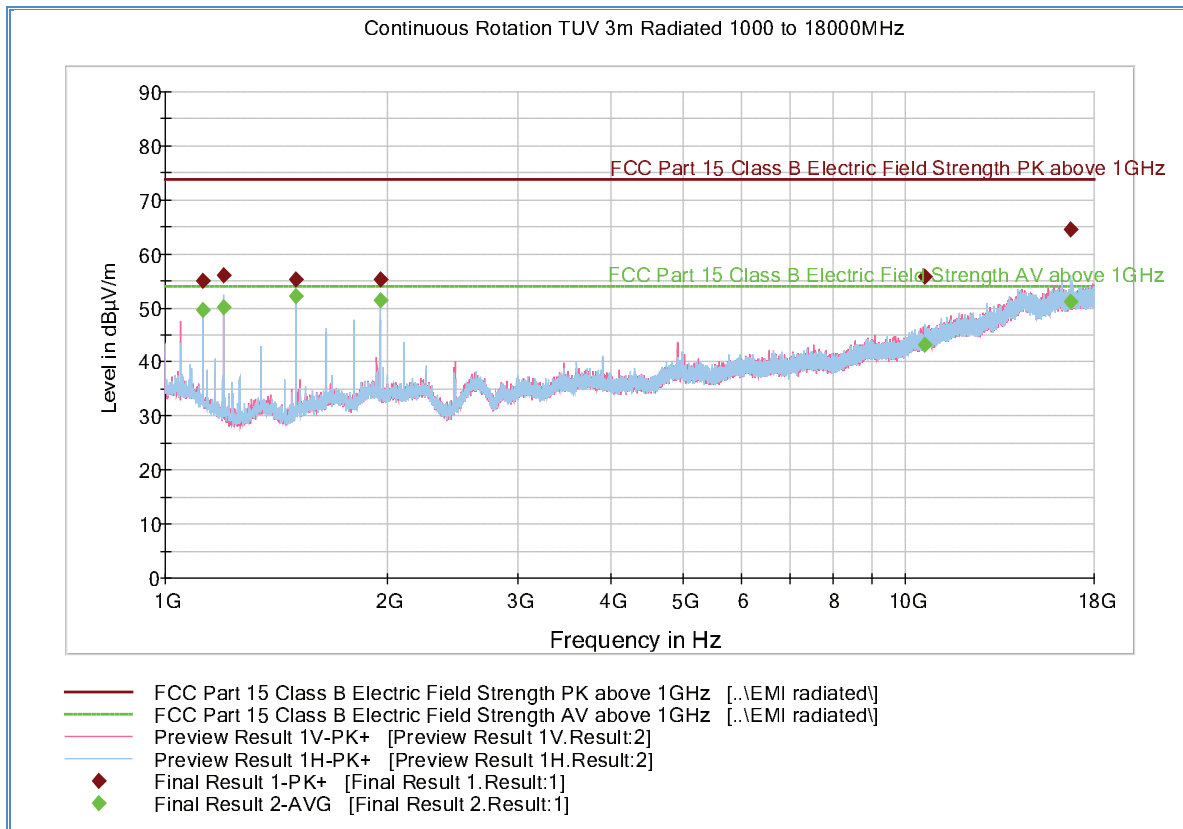
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1124.866667     | 55.3             | 1000.0          | 1000.000        | 197.4       | V            | 332.0         | -1.7       | 18.6        | 73.9           |
| 1200.233333     | 56.6             | 1000.0          | 1000.000        | 99.6        | H            | 157.0         | -1.5       | 17.3        | 73.9           |
| 1500.000000     | 55.7             | 1000.0          | 1000.000        | 100.6       | H            | 194.0         | -1.9       | 18.2        | 73.9           |
| 1949.933333     | 55.0             | 1000.0          | 1000.000        | 101.6       | H            | 228.0         | 1.9        | 18.9        | 73.9           |
| 4873.933333     | 55.0             | 1000.0          | 1000.000        | 131.6       | V            | 74.0          | 7.8        | 18.9        | 73.9           |
| 16274.166667    | 64.2             | 1000.0          | 1000.000        | 304.2       | H            | 264.0         | 23.0       | 9.7         | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1124.866667     | 50.3             | 1000.0          | 1000.000        | 197.4       | V            | 332.0         | -1.7       | 3.6         | 53.9           |
| 1200.233333     | 50.2             | 1000.0          | 1000.000        | 99.6        | H            | 157.0         | -1.5       | 3.7         | 53.9           |
| 1500.000000     | 52.9             | 1000.0          | 1000.000        | 100.6       | H            | 194.0         | -1.9       | 1.0         | 53.9           |
| 1949.933333     | 51.4             | 1000.0          | 1000.000        | 101.6       | H            | 228.0         | 1.9        | 2.5         | 53.9           |
| 4873.933333     | 40.0             | 1000.0          | 1000.000        | 131.6       | V            | 74.0          | 7.8        | 13.9        | 53.9           |
| 16274.166667    | 50.9             | 1000.0          | 1000.000        | 304.2       | H            | 264.0         | 23.0       | 3.0         | 53.9           |

**Test Notes:** Measurement was performed with a 2.4GHz notch filter. No significant emissions observed above 6GHz. Measurements above 6GHz are noise floor figures.

## 2.7.22 Test Results Above 1GHz (802.11b High Channel)



### Peak Data

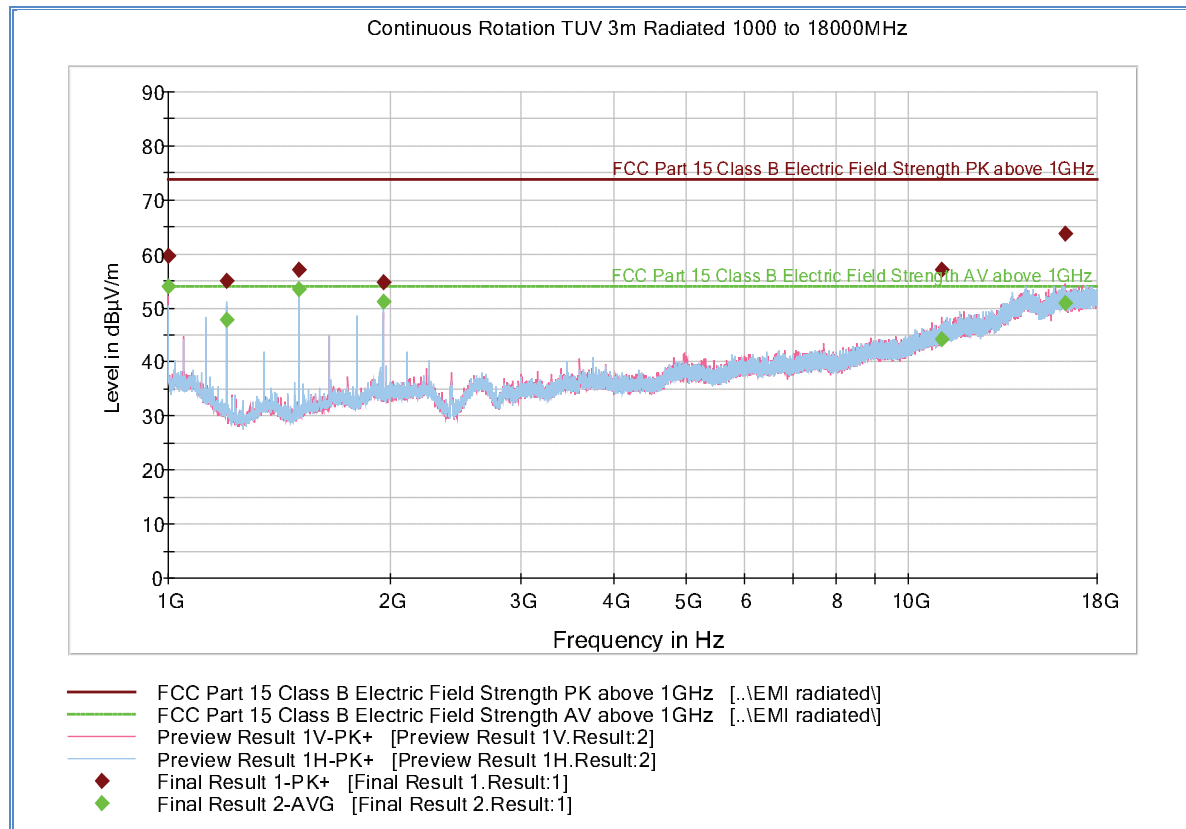
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1125.066667     | 55.0             | 1000.0          | 1000.000        | 189.4       | V            | 336.0         | -1.7       | 18.9        | 73.9           |
| 1200.233333     | 55.9             | 1000.0          | 1000.000        | 99.6        | H            | 157.0         | -1.5       | 18.0        | 73.9           |
| 1500.000000     | 55.4             | 1000.0          | 1000.000        | 103.6       | H            | 26.0          | -1.9       | 18.5        | 73.9           |
| 1949.933333     | 55.2             | 1000.0          | 1000.000        | 101.6       | H            | 234.0         | 1.9        | 18.7        | 73.9           |
| 10612.000000    | 55.9             | 1000.0          | 1000.000        | 357.1       | H            | 142.0         | 15.6       | 18.0        | 73.9           |
| 16739.600000    | 64.6             | 1000.0          | 1000.000        | 410.7       | H            | -16.0         | 23.4       | 9.3         | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1125.066667     | 49.7             | 1000.0          | 1000.000        | 189.4       | V            | 336.0         | -1.7       | 4.2         | 53.9           |
| 1200.233333     | 50.2             | 1000.0          | 1000.000        | 99.6        | H            | 157.0         | -1.5       | 3.7         | 53.9           |
| 1500.000000     | 52.3             | 1000.0          | 1000.000        | 103.6       | H            | 26.0          | -1.9       | 1.6         | 53.9           |
| 1949.933333     | 51.5             | 1000.0          | 1000.000        | 101.6       | H            | 234.0         | 1.9        | 2.4         | 53.9           |
| 10612.000000    | 43.2             | 1000.0          | 1000.000        | 357.1       | H            | 142.0         | 15.6       | 10.7        | 53.9           |
| 16739.600000    | 51.3             | 1000.0          | 1000.000        | 410.7       | H            | -16.0         | 23.4       | 2.6         | 53.9           |

**Test Notes:** Measurement was performed with a 2.4GHz notch filter. No significant emissions observed above 6GHz. Measurements above 6GHz are noise floor figures.

## 2.7.23 Test Results Above 1GHz (802.11g Low Channel)



### Peak Data

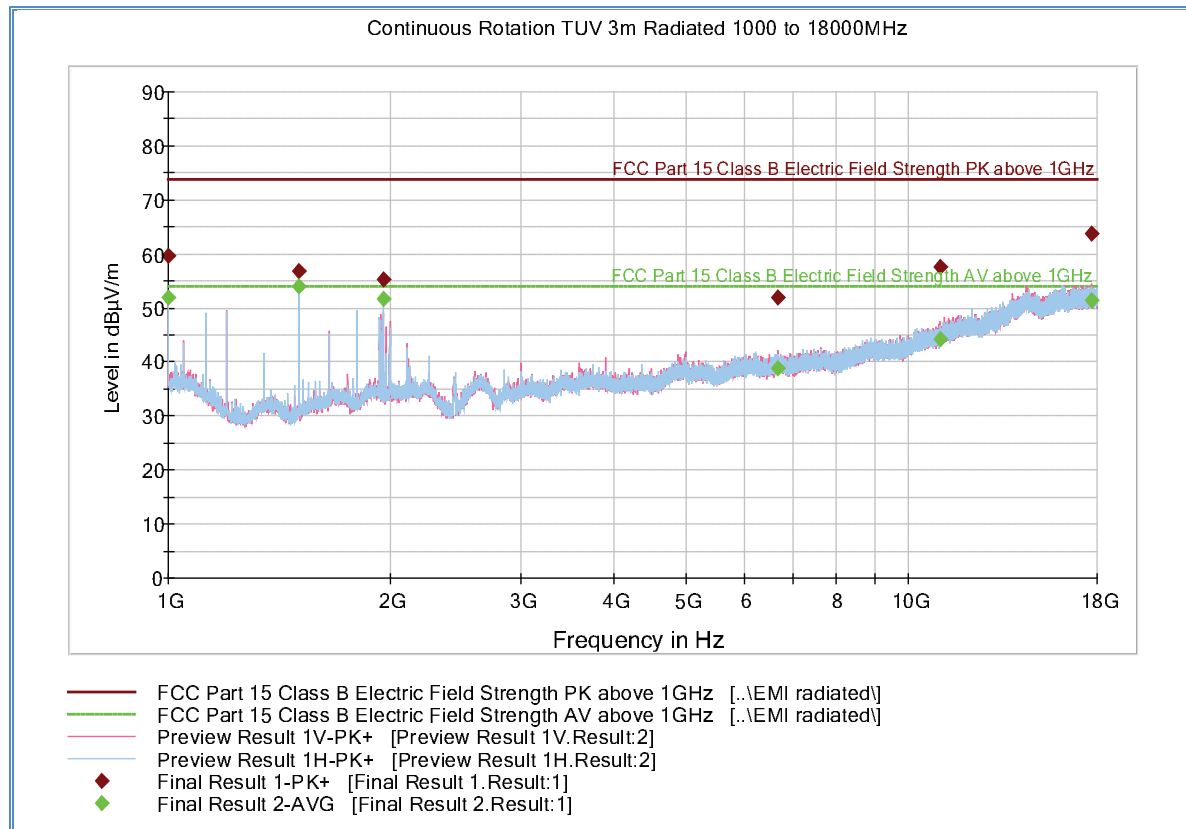
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 59.8             | 1000.0          | 1000.000        | 314.2       | V            | 324.0         | -1.0       | 14.2        | 73.9           |
| 1199.833333     | 55.1             | 1000.0          | 1000.000        | 99.6        | H            | 157.0         | -1.5       | 18.8        | 73.9           |
| 1500.000000     | 57.0             | 1000.0          | 1000.000        | 100.6       | H            | 213.0         | -1.9       | 16.9        | 73.9           |
| 1950.133333     | 54.7             | 1000.0          | 1000.000        | 101.6       | H            | 241.0         | 1.9        | 19.2        | 73.9           |
| 11112.966667    | 57.2             | 1000.0          | 1000.000        | 300.6       | V            | 234.0         | 16.6       | 16.7        | 73.9           |
| 16288.066667    | 63.8             | 1000.0          | 1000.000        | 383.1       | V            | 20.0          | 23.0       | 10.1        | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 53.9             | 1000.0          | 1000.000        | 314.2       | V            | 324.0         | -1.0       | 0.0         | 53.9           |
| 1199.833333     | 47.8             | 1000.0          | 1000.000        | 99.6        | H            | 157.0         | -1.5       | 6.1         | 53.9           |
| 1500.000000     | 53.6             | 1000.0          | 1000.000        | 100.6       | H            | 213.0         | -1.9       | 0.3         | 53.9           |
| 1950.133333     | 51.3             | 1000.0          | 1000.000        | 101.6       | H            | 241.0         | 1.9        | 2.6         | 53.9           |
| 11112.966667    | 44.2             | 1000.0          | 1000.000        | 300.6       | V            | 234.0         | 16.6       | 9.7         | 53.9           |
| 16288.066667    | 50.9             | 1000.0          | 1000.000        | 383.1       | V            | 20.0          | 23.0       | 3.0         | 53.9           |

**Test Notes:** Measurement was performed with a 2.4GHz notch filter. No significant emissions observed above 6GHz. Measurements above 6GHz are noise floor figures.

## 2.7.24 Test Results Above 1GHz (802.11g Mid Channel)



### Peak Data

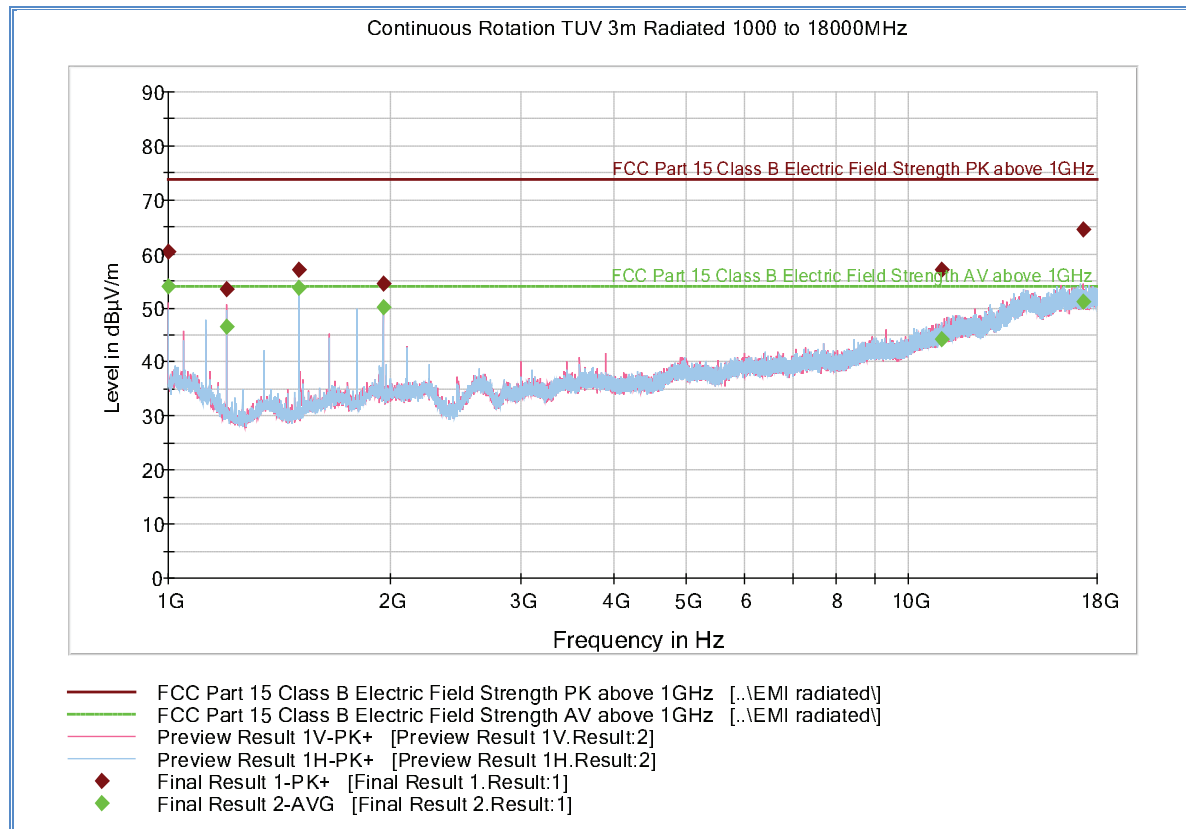
| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 59.7             | 1000.0          | 1000.000        | 313.2       | H            | 286.0         | -1.0       | 14.2        | 73.9           |
| 1500.000000     | 56.9             | 1000.0          | 1000.000        | 99.6        | H            | 202.0         | -1.9       | 17.0        | 73.9           |
| 1949.933333     | 55.2             | 1000.0          | 1000.000        | 100.6       | H            | 235.0         | 1.9        | 18.7        | 73.9           |
| 6663.833333     | 51.9             | 1000.0          | 1000.000        | 226.4       | V            | 51.0          | 10.4       | 22.0        | 73.9           |
| 11047.600000    | 57.7             | 1000.0          | 1000.000        | 322.2       | V            | 3.0           | 16.4       | 16.2        | 73.9           |
| 17659.466667    | 63.8             | 1000.0          | 1000.000        | 151.5       | V            | 277.0         | 23.4       | 10.1        | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 51.9             | 1000.0          | 1000.000        | 313.2       | H            | 286.0         | -1.0       | 2.0         | 53.9           |
| 1500.000000     | 53.9             | 1000.0          | 1000.000        | 99.6        | H            | 202.0         | -1.9       | 0.0         | 53.9           |
| 1949.933333     | 51.7             | 1000.0          | 1000.000        | 100.6       | H            | 235.0         | 1.9        | 2.2         | 53.9           |
| 6663.833333     | 38.9             | 1000.0          | 1000.000        | 226.4       | V            | 51.0          | 10.4       | 15.0        | 53.9           |
| 11047.600000    | 44.2             | 1000.0          | 1000.000        | 322.2       | V            | 3.0           | 16.4       | 9.7         | 53.9           |
| 17659.466667    | 51.4             | 1000.0          | 1000.000        | 151.5       | V            | 277.0         | 23.4       | 2.5         | 53.9           |

**Test Notes:** Measurement was performed with a 2.4GHz notch filter. No significant emissions observed above 6GHz. Measurements above 6GHz are noise floor figures.

## 2.7.25 Test Results Above 1GHz (802.11g High Channel)



### Peak Data

| Frequency (MHz) | MaxPeak (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 60.3             | 1000.0          | 1000.000        | 178.5       | V            | 337.0         | -1.0       | 13.6        | 73.9           |
| 1200.233333     | 53.6             | 1000.0          | 1000.000        | 227.3       | V            | 158.0         | -1.5       | 20.3        | 73.9           |
| 1500.000000     | 57.2             | 1000.0          | 1000.000        | 99.6        | H            | 213.0         | -1.9       | 16.7        | 73.9           |
| 1949.933333     | 54.6             | 1000.0          | 1000.000        | 101.6       | H            | 225.0         | 1.9        | 19.3        | 73.9           |
| 11116.700000    | 57.0             | 1000.0          | 1000.000        | 194.4       | H            | -20.0         | 16.6       | 16.9        | 73.9           |
| 17226.866667    | 64.5             | 1000.0          | 1000.000        | 99.6        | V            | 250.0         | 23.1       | 9.4         | 73.9           |

### Average Data

| Frequency (MHz) | Average (dBμV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Polarization | Azimuth (deg) | Corr. (dB) | Margin (dB) | Limit (dBμV/m) |
|-----------------|------------------|-----------------|-----------------|-------------|--------------|---------------|------------|-------------|----------------|
| 1000.000000     | 53.9             | 1000.0          | 1000.000        | 178.5       | V            | 337.0         | -1.0       | 0.0         | 53.9           |
| 1200.233333     | 46.7             | 1000.0          | 1000.000        | 227.3       | V            | 158.0         | -1.5       | 7.2         | 53.9           |
| 1500.000000     | 53.7             | 1000.0          | 1000.000        | 99.6        | H            | 213.0         | -1.9       | 0.2         | 53.9           |
| 1949.933333     | 50.2             | 1000.0          | 1000.000        | 101.6       | H            | 225.0         | 1.9        | 3.7         | 53.9           |
| 11116.700000    | 44.2             | 1000.0          | 1000.000        | 194.4       | H            | -20.0         | 16.6       | 9.7         | 53.9           |
| 17226.866667    | 51.1             | 1000.0          | 1000.000        | 99.6        | V            | 250.0         | 23.1       | 2.8         | 53.9           |

**Test Notes:** Measurement was performed with a 2.4GHz notch filter. No significant emissions observed above 6GHz. Measurements above 6GHz are noise floor figures.