

**5 minutes after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5210016.74      | 16.74                 |
| 100%        |            | -30        | 5210053.39      | 53.39                 |
| 100%        |            | -20        | 5210045.60      | 45.60                 |
| 100%        |            | -10        | 5210039.47      | 39.47                 |
| 100%        |            | 0          | 5210036.07      | 36.07                 |
| 100%        |            | +10        | 5210032.48      | 32.48                 |
| 100%        |            | +30        | 5210032.04      | 32.04                 |
| 100%        |            | +40        | 5210041.57      | 41.57                 |
| 100%        |            | +50        | 5210047.40      | 47.40                 |
| LOW         |            | 100.00     | +20             | 5210045.84            |
| HIGH        | 130.00     | +20        | 5210042.59      | 42.59                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5290064.94 | 64.94       |
| 100%    |        | -30      | 5290052.17 | 52.17       |
| 100%    |        | -20      | 5290045.87 | 45.87       |
| 100%    |        | -10      | 5290040.12 | 40.12       |
| 100%    |        | 0        | 5290036.75 | 36.75       |
| 100%    |        | +10      | 5290033.17 | 33.17       |
| 100%    |        | +30      | 5290031.13 | 31.13       |
| 100%    |        | +40      | 5290041.11 | 41.11       |
| 100%    |        | +50      | 5290045.84 | 45.84       |
| LOW     |        | 100.00   | +20        | 5290046.94  |
| HIGH    | 130.00 | +20      | 5290042.62 | 42.62       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5530027.09 | 27.09       |
| 100%    |        | -30      | 5530052.46 | 52.46       |
| 100%    |        | -20      | 5530045.64 | 45.64       |
| 100%    |        | -10      | 5530039.69 | 39.69       |
| 100%    |        | 0        | 5530035.84 | 35.84       |
| 100%    |        | +10      | 5530033.71 | 33.71       |
| 100%    |        | +30      | 5530031.44 | 31.44       |
| 100%    |        | +40      | 5530040.33 | 40.33       |
| 100%    |        | +50      | 5530046.31 | 46.31       |
| LOW     |        | 100.00   | +20        | 5530045.69  |
| HIGH    | 130.00 | +20      | 5530043.21 | 43.21       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5775035.94      | 35.94                 |
| 100%        |            | -30        | 5775052.16      | 52.16                 |
| 100%        |            | -20        | 5775045.08      | 45.08                 |
| 100%        |            | -10        | 5775038.37      | 38.37                 |
| 100%        |            | 0          | 5775033.48      | 33.48                 |
| 100%        |            | +10        | 5775030.90      | 30.90                 |
| 100%        |            | +30        | 5775030.94      | 30.94                 |
| 100%        |            | +40        | 5775040.23      | 40.23                 |
| 100%        |            | +50        | 5775043.81      | 43.81                 |
| LOW         |            | 100.00     | +20             | 5775048.09            |
| HIGH        | 130.00     | +20        | 5775043.21      | 43.21                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

**10 minutes after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5210029.15      | 29.15                 |
| 100%        |            | -30        | 5210051.72      | 51.72                 |
| 100%        |            | -20        | 5210045.03      | 45.03                 |
| 100%        |            | -10        | 5210038.86      | 38.86                 |
| 100%        |            | 0          | 5210035.72      | 35.72                 |
| 100%        |            | +10        | 5210031.85      | 31.85                 |
| 100%        |            | +30        | 5210032.07      | 32.07                 |
| 100%        |            | +40        | 5210040.54      | 40.54                 |
| 100%        |            | +50        | 5210044.91      | 44.91                 |
| LOW         |            | 100.00     | +20             | 5210047.30            |
| HIGH        | 130.00     | +20        | 5210044.07      | 44.07                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5290041.77 | 41.77       |
| 100%    |        | -30      | 5290051.94 | 51.94       |
| 100%    |        | -20      | 5290045.63 | 45.63       |
| 100%    |        | -10      | 5290040.50 | 40.50       |
| 100%    |        | 0        | 5290037.29 | 37.29       |
| 100%    |        | +10      | 5290033.24 | 33.24       |
| 100%    |        | +30      | 5290032.12 | 32.12       |
| 100%    |        | +40      | 5290041.39 | 41.39       |
| 100%    |        | +50      | 5290045.82 | 45.82       |
| LOW     |        | 100.00   | +20        | 5290047.24  |
| HIGH    | 130.00 | +20      | 5290042.78 | 42.78       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5530013.69      | 13.69                 |
| 100%        |            | -30        | 5530053.22      | 53.22                 |
| 100%        |            | -20        | 5530045.47      | 45.47                 |
| 100%        |            | -10        | 5530038.75      | 38.75                 |
| 100%        |            | 0          | 5530035.57      | 35.57                 |
| 100%        |            | +10        | 5530033.00      | 33.00                 |
| 100%        |            | +30        | 5530031.66      | 31.66                 |
| 100%        |            | +40        | 5530041.50      | 41.50                 |
| 100%        |            | +50        | 5530045.16      | 45.16                 |
| LOW         |            | 100.00     | +20             | 5530048.01            |
| HIGH        | 130.00     | +20        | 5530043.02      | 43.02                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5775023.95      | 23.95                 |
| 100%        |            | -30        | 5775052.32      | 52.32                 |
| 100%        |            | -20        | 5775044.97      | 44.97                 |
| 100%        |            | -10        | 5775038.51      | 38.51                 |
| 100%        |            | 0          | 5775035.37      | 35.37                 |
| 100%        |            | +10        | 5775031.71      | 31.71                 |
| 100%        |            | +30        | 5775031.82      | 31.82                 |
| 100%        |            | +40        | 5775042.07      | 42.07                 |
| 100%        |            | +50        | 5775045.41      | 45.41                 |
| LOW         |            | 100.00     | +20             | 5775048.33            |
| HIGH        | 130.00     | +20        | 5775042.79      | 42.79                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



**[ANT.B]**
**Startup after the EUT is energized**

|                      |                  |
|----------------------|------------------|
| OPERATING BAND:      | UNII Band 1      |
| OPERATING FREQUENCY: | 5,210,000,000 Hz |
| CHANNEL:             | 42               |
| REFERENCE VOLTAGE:   | 110 AC           |

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110.00     | +20(Ref)   | 5210076.14      | 76.14                 |
| 100%        |            | -30        | 5210052.30      | 52.30                 |
| 100%        |            | -20        | 5210045.01      | 45.01                 |
| 100%        |            | -10        | 5210038.31      | 38.31                 |
| 100%        |            | 0          | 5210033.95      | 33.95                 |
| 100%        |            | +10        | 5210030.49      | 30.49                 |
| 100%        |            | +30        | 5210032.22      | 32.22                 |
| 100%        |            | +40        | 5210041.26      | 41.26                 |
| 100%        |            | +50        | 5210046.08      | 46.08                 |
| LOW         |            | 100.00     | +20             | 5210046.85            |
| HIGH        | 130.00     | +20        | 5210043.98      | 43.98                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110.00     | +20(Ref)   | 5290019.63      | 19.63                 |
| 100%        |            | -30        | 5290052.88      | 52.88                 |
| 100%        |            | -20        | 5290045.92      | 45.92                 |
| 100%        |            | -10        | 5290039.79      | 39.79                 |
| 100%        |            | 0          | 5290035.65      | 35.65                 |
| 100%        |            | +10        | 5290032.26      | 32.26                 |
| 100%        |            | +30        | 5290032.20      | 32.20                 |
| 100%        |            | +40        | 5290042.13      | 42.13                 |
| 100%        |            | +50        | 5290046.52      | 46.52                 |
| LOW         |            | 100.00     | +20             | 5290047.28            |
| HIGH        | 130.00     | +20        | 5290044.70      | 44.70                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110.00 | +20(Ref) | 5530018.20 | 18.20       |
| 100%    |        | -30      | 5530053.23 | 53.23       |
| 100%    |        | -20      | 5530046.35 | 46.35       |
| 100%    |        | -10      | 5530040.86 | 40.86       |
| 100%    |        | 0        | 5530037.62 | 37.62       |
| 100%    |        | +10      | 5530033.75 | 33.75       |
| 100%    |        | +30      | 5530032.55 | 32.55       |
| 100%    |        | +40      | 5530041.72 | 41.72       |
| 100%    |        | +50      | 5530047.74 | 47.74       |
| LOW     |        | 100.00   | +20        | 5530045.65  |
| HIGH    | 130.00 | +20      | 5530043.77 | 43.77       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110.00     | +20(Ref)   | 5775019.78      | 19.78                 |
| 100%        |            | -30        | 5775053.42      | 53.42                 |
| 100%        |            | -20        | 5775047.30      | 47.30                 |
| 100%        |            | -10        | 5775040.31      | 40.31                 |
| 100%        |            | 0          | 5775035.29      | 35.29                 |
| 100%        |            | +10        | 5775031.29      | 31.29                 |
| 100%        |            | +30        | 5775031.97      | 31.97                 |
| 100%        |            | +40        | 5775040.77      | 40.77                 |
| 100%        |            | +50        | 5775044.79      | 44.79                 |
| LOW         |            | 100.00     | +20             | 5775047.65            |
| HIGH        | 130.00     | +20        | 5775043.93      | 43.93                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

**2 minutes after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110.00     | +20(Ref)   | 5210029.41      | 29.41                 |
| 100%        |            | -30        | 5210053.03      | 53.03                 |
| 100%        |            | -20        | 5210044.97      | 44.97                 |
| 100%        |            | -10        | 5210037.89      | 37.89                 |
| 100%        |            | 0          | 5210032.99      | 32.99                 |
| 100%        |            | +10        | 5210030.62      | 30.62                 |
| 100%        |            | +30        | 5210031.39      | 31.39                 |
| 100%        |            | +40        | 5210039.92      | 39.92                 |
| 100%        |            | +50        | 5210043.95      | 43.95                 |
| LOW         |            | 100.00     | +20             | 5210047.64            |
| HIGH        | 130.00     | +20        | 5210043.44      | 43.44                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5290021.89 | 21.89       |
| 100%    |        | -30      | 5290052.94 | 52.94       |
| 100%    |        | -20      | 5290046.34 | 46.34       |
| 100%    |        | -10      | 5290039.33 | 39.33       |
| 100%    |        | 0        | 5290035.51 | 35.51       |
| 100%    |        | +10      | 5290032.40 | 32.40       |
| 100%    |        | +30      | 5290032.30 | 32.30       |
| 100%    |        | +40      | 5290041.48 | 41.48       |
| 100%    |        | +50      | 5290046.29 | 46.29       |
| LOW     |        | 100.00   | +20        | 5290046.86  |
| HIGH    | 130.00 | +20      | 5290043.51 | 43.51       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5530038.78 | 38.78       |
| 100%    |        | -30      | 5530053.39 | 53.39       |
| 100%    |        | -20      | 5530046.32 | 46.32       |
| 100%    |        | -10      | 5530039.50 | 39.50       |
| 100%    |        | 0        | 5530034.71 | 34.71       |
| 100%    |        | +10      | 5530032.56 | 32.56       |
| 100%    |        | +30      | 5530031.13 | 31.13       |
| 100%    |        | +40      | 5530041.86 | 41.86       |
| 100%    |        | +50      | 5530045.68 | 45.68       |
| LOW     |        | 100.00   | +20        | 5530047.85  |
| HIGH    | 130.00 | +20      | 5530042.84 | 42.84       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5775028.38      | 28.38                 |
| 100%        |            | -30        | 5775053.45      | 53.45                 |
| 100%        |            | -20        | 5775046.80      | 46.80                 |
| 100%        |            | -10        | 5775039.70      | 39.70                 |
| 100%        |            | 0          | 5775036.33      | 36.33                 |
| 100%        |            | +10        | 5775034.13      | 34.13                 |
| 100%        |            | +30        | 5775031.54      | 31.54                 |
| 100%        |            | +40        | 5775041.64      | 41.64                 |
| 100%        |            | +50        | 5775046.49      | 46.49                 |
| LOW         |            | 100.00     | +20             | 5775046.82            |
| HIGH        | 130.00     | +20        | 5775043.78      | 43.78                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



**5 minutes after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5210040.61 | 40.61       |
| 100%    |        | -30      | 5210052.38 | 52.38       |
| 100%    |        | -20      | 5210044.56 | 44.56       |
| 100%    |        | -10      | 5210039.00 | 39.00       |
| 100%    |        | 0        | 5210035.07 | 35.07       |
| 100%    |        | +10      | 5210031.08 | 31.08       |
| 100%    |        | +30      | 5210032.29 | 32.29       |
| 100%    |        | +40      | 5210041.66 | 41.66       |
| 100%    |        | +50      | 5210045.75 | 45.75       |
| LOW     |        | 100.00   | +20        | 5210047.58  |
| HIGH    | 130.00 | +20      | 5210042.40 | 42.40       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5290038.63      | 38.63                 |
| 100%        |            | -30        | 5290052.12      | 52.12                 |
| 100%        |            | -20        | 5290044.06      | 44.06                 |
| 100%        |            | -10        | 5290037.56      | 37.56                 |
| 100%        |            | 0          | 5290034.12      | 34.12                 |
| 100%        |            | +10        | 5290031.36      | 31.36                 |
| 100%        |            | +30        | 5290031.51      | 31.51                 |
| 100%        |            | +40        | 5290041.50      | 41.50                 |
| 100%        |            | +50        | 5290046.13      | 46.13                 |
| LOW         |            | 100.00     | +20             | 5290047.04            |
| HIGH        | 130.00     | +20        | 5290043.11      | 43.11                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5530022.65 | 22.65       |
| 100%    |        | -30      | 5530052.26 | 52.26       |
| 100%    |        | -20      | 5530045.86 | 45.86       |
| 100%    |        | -10      | 5530040.27 | 40.27       |
| 100%    |        | 0        | 5530035.68 | 35.68       |
| 100%    |        | +10      | 5530033.43 | 33.43       |
| 100%    |        | +30      | 5530032.49 | 32.49       |
| 100%    |        | +40      | 5530042.15 | 42.15       |
| 100%    |        | +50      | 5530045.76 | 45.76       |
| LOW     |        | 100.00   | +20        | 5530048.06  |
| HIGH    | 130.00 | +20      | 5530041.90 | 41.90       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5775037.51      | 37.51                 |
| 100%        |            | -30        | 5775052.39      | 52.39                 |
| 100%        |            | -20        | 5775044.36      | 44.36                 |
| 100%        |            | -10        | 5775037.68      | 37.68                 |
| 100%        |            | 0          | 5775033.28      | 33.28                 |
| 100%        |            | +10        | 5775030.02      | 30.02                 |
| 100%        |            | +30        | 5775031.73      | 31.73                 |
| 100%        |            | +40        | 5775040.19      | 40.19                 |
| 100%        |            | +50        | 5775045.25      | 45.25                 |
| LOW         |            | 100.00     | +20             | 5775046.61            |
| HIGH        | 130.00     | +20        | 5775042.08      | 42.08                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

**10 minutes after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5210042.55      | 42.55                 |
| 100%        |            | -30        | 5210053.16      | 53.16                 |
| 100%        |            | -20        | 5210046.76      | 46.76                 |
| 100%        |            | -10        | 5210041.31      | 41.31                 |
| 100%        |            | 0          | 5210036.64      | 36.64                 |
| 100%        |            | +10        | 5210033.77      | 33.77                 |
| 100%        |            | +30        | 5210031.57      | 31.57                 |
| 100%        |            | +40        | 5210042.24      | 42.24                 |
| 100%        |            | +50        | 5210047.01      | 47.01                 |
| LOW         |            | 100.00     | +20             | 5210046.90            |
| HIGH        | 130.00     | +20        | 5210041.78      | 41.78                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5290081.41      | 81.41                 |
| 100%        |            | -30        | 5290053.12      | 53.12                 |
| 100%        |            | -20        | 5290046.31      | 46.31                 |
| 100%        |            | -10        | 5290039.51      | 39.51                 |
| 100%        |            | 0          | 5290034.63      | 34.63                 |
| 100%        |            | +10        | 5290031.03      | 31.03                 |
| 100%        |            | +30        | 5290031.62      | 31.62                 |
| 100%        |            | +40        | 5290040.01      | 40.01                 |
| 100%        |            | +50        | 5290043.33      | 43.33                 |
| LOW         |            | 100.00     | +20             | 5290048.35            |
| HIGH        | 130.00     | +20        | 5290042.42      | 42.42                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5530019.77      | 19.77                 |
| 100%        |            | -30        | 5530052.02      | 52.02                 |
| 100%        |            | -20        | 5530045.54      | 45.54                 |
| 100%        |            | -10        | 5530039.70      | 39.70                 |
| 100%        |            | 0          | 5530035.77      | 35.77                 |
| 100%        |            | +10        | 5530033.23      | 33.23                 |
| 100%        |            | +30        | 5530031.20      | 31.20                 |
| 100%        |            | +40        | 5530040.51      | 40.51                 |
| 100%        |            | +50        | 5530045.92      | 45.92                 |
| LOW         |            | 100.00     | +20             | 5530046.26            |
| HIGH        | 130.00     | +20        | 5530044.25      | 44.25                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5775040.15      | 40.15                 |
| 100%        |            | -30        | 5775051.90      | 51.90                 |
| 100%        |            | -20        | 5775044.17      | 44.17                 |
| 100%        |            | -10        | 5775038.79      | 38.79                 |
| 100%        |            | 0          | 5775033.75      | 33.75                 |
| 100%        |            | +10        | 5775029.68      | 29.68                 |
| 100%        |            | +30        | 5775031.41      | 31.41                 |
| 100%        |            | +40        | 5775040.67      | 40.67                 |
| 100%        |            | +50        | 5775045.49      | 45.49                 |
| LOW         |            | 100.00     | +20             | 5775046.85            |
| HIGH        | 130.00     | +20        | 5775042.93      | 42.93                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



[MIMO\_ANT.A]

**Startup after the EUT is energized**

|                      |                  |
|----------------------|------------------|
| OPERATING BAND:      | UNII Band 1      |
| OPERATING FREQUENCY: | 5,210,000,000 Hz |
| CHANNEL:             | 42               |
| REFERENCE VOLTAGE:   | 110 AC           |

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110.00 | +20(Ref) | 5210023.03 | 23.03       |
| 100%    |        | -30      | 5210052.37 | 52.37       |
| 100%    |        | -20      | 5210045.92 | 45.92       |
| 100%    |        | -10      | 5210040.58 | 40.58       |
| 100%    |        | 0        | 5210037.27 | 37.27       |
| 100%    |        | +10      | 5210033.24 | 33.24       |
| 100%    |        | +30      | 5210031.45 | 31.45       |
| 100%    |        | +40      | 5210040.54 | 40.54       |
| 100%    |        | +50      | 5210043.72 | 43.72       |
| LOW     |        | 100.00   | +20        | 5210048.49  |
| HIGH    | 130.00 | +20      | 5210043.51 | 43.51       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110.00     | +20(Ref)   | 5290011.67      | 11.67                 |
| 100%        |            | -30        | 5290052.73      | 52.73                 |
| 100%        |            | -20        | 5290044.65      | 44.65                 |
| 100%        |            | -10        | 5290037.62      | 37.62                 |
| 100%        |            | 0          | 5290032.98      | 32.98                 |
| 100%        |            | +10        | 5290030.36      | 30.36                 |
| 100%        |            | +30        | 5290030.98      | 30.98                 |
| 100%        |            | +40        | 5290038.82      | 38.82                 |
| 100%        |            | +50        | 5290043.77      | 43.77                 |
| LOW         |            | 100.00     | +20             | 5290046.72            |
| HIGH        | 130.00     | +20        | 5290044.14      | 44.14                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110.00 | +20(Ref) | 5530055.42 | 55.42       |
| 100%    |        | -30      | 5530052.87 | 52.87       |
| 100%    |        | -20      | 5530046.21 | 46.21       |
| 100%    |        | -10      | 5530040.49 | 40.49       |
| 100%    |        | 0        | 5530036.69 | 36.69       |
| 100%    |        | +10      | 5530033.02 | 33.02       |
| 100%    |        | +30      | 5530031.36 | 31.36       |
| 100%    |        | +40      | 5530040.80 | 40.80       |
| 100%    |        | +50      | 5530046.05 | 46.05       |
| LOW     |        | 100.00   | +20        | 5530045.42  |
| HIGH    | 130.00 | +20      | 5530045.75 | 45.75       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110.00     | +20(Ref)   | 5775037.91      | 37.91                 |
| 100%        |            | -30        | 5775052.72      | 52.72                 |
| 100%        |            | -20        | 5775045.76      | 45.76                 |
| 100%        |            | -10        | 5775040.48      | 40.48                 |
| 100%        |            | 0          | 5775036.48      | 36.48                 |
| 100%        |            | +10        | 5775032.83      | 32.83                 |
| 100%        |            | +30        | 5775030.90      | 30.90                 |
| 100%        |            | +40        | 5775039.21      | 39.21                 |
| 100%        |            | +50        | 5775043.51      | 43.51                 |
| LOW         |            | 100.00     | +20             | 5775047.37            |
| HIGH        | 130.00     | +20        | 5775043.89      | 43.89                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

**2 minutes after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110.00     | +20(Ref)   | 5210022.29      | 22.29                 |
| 100%        |            | -30        | 5210052.99      | 52.99                 |
| 100%        |            | -20        | 5210046.79      | 46.79                 |
| 100%        |            | -10        | 5210040.40      | 40.40                 |
| 100%        |            | 0          | 5210035.91      | 35.91                 |
| 100%        |            | +10        | 5210032.09      | 32.09                 |
| 100%        |            | +30        | 5210030.80      | 30.80                 |
| 100%        |            | +40        | 5210039.50      | 39.50                 |
| 100%        |            | +50        | 5210045.52      | 45.52                 |
| LOW         |            | 100.00     | +20             | 5210045.65            |
| HIGH        | 130.00     | +20        | 5210044.10      | 44.10                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5290017.44      | 17.44                 |
| 100%        |            | -30        | 5290051.95      | 51.95                 |
| 100%        |            | -20        | 5290045.64      | 45.64                 |
| 100%        |            | -10        | 5290039.71      | 39.71                 |
| 100%        |            | 0          | 5290035.74      | 35.74                 |
| 100%        |            | +10        | 5290033.15      | 33.15                 |
| 100%        |            | +30        | 5290032.20      | 32.2                  |
| 100%        |            | +40        | 5290041.59      | 41.59                 |
| 100%        |            | +50        | 5290046.50      | 46.50                 |
| LOW         |            | 100.00     | +20             | 5290046.76            |
| HIGH        | 130.00     | +20        | 5290042.80      | 42.8                  |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5530022.79      | 22.79                 |
| 100%        |            | -30        | 5530043.91      | 43.91                 |
| 100%        |            | -20        | 5530040.36      | 40.36                 |
| 100%        |            | -10        | 5530038.23      | 38.23                 |
| 100%        |            | 0          | 5530033.56      | 33.56                 |
| 100%        |            | +10        | 5530030.44      | 30.44                 |
| 100%        |            | +30        | 5530031.26      | 31.26                 |
| 100%        |            | +40        | 5530039.74      | 39.74                 |
| 100%        |            | +50        | 5530044.66      | 44.66                 |
| LOW         |            | 100.00     | +20             | 5530046.75            |
| HIGH        | 130.00     | +20        | 5530042.65      | 42.65                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5775016.98      | 16.98                 |
| 100%        |            | -30        | 5775043.91      | 43.91                 |
| 100%        |            | -20        | 5775040.36      | 40.36                 |
| 100%        |            | -10        | 5775038.23      | 38.23                 |
| 100%        |            | 0          | 5775033.62      | 33.62                 |
| 100%        |            | +10        | 5775030.19      | 30.19                 |
| 100%        |            | +30        | 5775031.26      | 31.26                 |
| 100%        |            | +40        | 5775040.70      | 40.70                 |
| 100%        |            | +50        | 5775044.68      | 44.68                 |
| LOW         |            | 100.00     | +20             | 5775047.69            |
| HIGH        | 130.00     | +20        | 5775043.92      | 43.92                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



**5 minutes after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5210019.85      | 19.85                 |
| 100%        |            | -30        | 5210043.91      | 43.91                 |
| 100%        |            | -20        | 5210040.36      | 40.36                 |
| 100%        |            | -10        | 5210038.23      | 38.23                 |
| 100%        |            | 0          | 5210035.51      | 35.51                 |
| 100%        |            | +10        | 5210033.37      | 33.37                 |
| 100%        |            | +30        | 5210031.26      | 31.26                 |
| 100%        |            | +40        | 5210040.36      | 40.36                 |
| 100%        |            | +50        | 5210044.16      | 44.16                 |
| LOW         |            | 100.00     | +20             | 5210047.87            |
| HIGH        | 130.00     | +20        | 5210042.66      | 42.66                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5290076.53      | 76.53                 |
| 100%        |            | -30        | 5290043.91      | 43.91                 |
| 100%        |            | -20        | 5290040.36      | 40.36                 |
| 100%        |            | -10        | 5290038.23      | 38.23                 |
| 100%        |            | 0          | 5290034.46      | 34.46                 |
| 100%        |            | +10        | 5290031.22      | 31.22                 |
| 100%        |            | +30        | 5290031.26      | 31.26                 |
| 100%        |            | +40        | 5290040.88      | 40.88                 |
| 100%        |            | +50        | 5290044.67      | 44.67                 |
| LOW         |            | 100.00     | +20             | 5290047.88            |
| HIGH        | 130.00     | +20        | 5290042.17      | 42.17                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5530010.41 | 10.41       |
| 100%    |        | -30      | 5530043.91 | 43.91       |
| 100%    |        | -20      | 5530040.36 | 40.36       |
| 100%    |        | -10      | 5530038.23 | 38.23       |
| 100%    |        | 0        | 5530036.07 | 36.07       |
| 100%    |        | +10      | 5530033.39 | 33.39       |
| 100%    |        | +30      | 5530031.26 | 31.26       |
| 100%    |        | +40      | 5530039.90 | 39.90       |
| 100%    |        | +50      | 5530045.70 | 45.70       |
| LOW     |        | 100.00   | +20        | 5530045.87  |
| HIGH    | 130.00 | +20      | 5530042.86 | 42.86       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5775059.23      | 59.23                 |
| 100%        |            | -30        | 5775043.91      | 43.91                 |
| 100%        |            | -20        | 5775040.36      | 40.36                 |
| 100%        |            | -10        | 5775038.23      | 38.23                 |
| 100%        |            | 0          | 5775035.18      | 35.18                 |
| 100%        |            | +10        | 5775031.45      | 31.45                 |
| 100%        |            | +30        | 5775031.26      | 31.26                 |
| 100%        |            | +40        | 5775041.29      | 41.29                 |
| 100%        |            | +50        | 5775046.35      | 46.35                 |
| LOW         |            | 100.00     | +20             | 5775046.61            |
| HIGH        | 130.00     | +20        | 5775044.21      | 44.21                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

**10 minutes after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5210055.42 | 55.42       |
| 100%    |        | -30      | 5210047.27 | 47.27       |
| 100%    |        | -20      | 5210044.87 | 44.87       |
| 100%    |        | -10      | 5210039.13 | 39.13       |
| 100%    |        | 0        | 5210035.01 | 35.01       |
| 100%    |        | +10      | 5210032.42 | 32.42       |
| 100%    |        | +30      | 5210031.13 | 31.13       |
| 100%    |        | +40      | 5210041.88 | 41.88       |
| 100%    |        | +50      | 5210045.04 | 45.04       |
| LOW     |        | 100.00   | +20        | 5210043.33  |
| HIGH    | 130.00 | +20      | 5210048.25 | 48.25       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5290011.22 | 11.22       |
| 100%    |        | -30      | 5290043.91 | 43.91       |
| 100%    |        | -20      | 5290040.36 | 40.36       |
| 100%    |        | -10      | 5290038.23 | 38.23       |
| 100%    |        | 0        | 5290035.00 | 35.00       |
| 100%    |        | +10      | 5290031.24 | 31.24       |
| 100%    |        | +30      | 5290031.26 | 31.26       |
| 100%    |        | +40      | 5290040.64 | 40.64       |
| 100%    |        | +50      | 5290045.67 | 45.67       |
| LOW     |        | 100.00   | +20        | 5290046.64  |
| HIGH    | 130.00 | +20      | 5290043.72 | 43.72       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5530027.49 | 27.49       |
| 100%    |        | -30      | 5530043.91 | 43.91       |
| 100%    |        | -20      | 5530040.36 | 40.36       |
| 100%    |        | -10      | 5530038.23 | 38.23       |
| 100%    |        | 0        | 5530036.66 | 36.66       |
| 100%    |        | +10      | 5530033.02 | 33.02       |
| 100%    |        | +30      | 5530031.26 | 31.26       |
| 100%    |        | +40      | 5530040.99 | 40.99       |
| 100%    |        | +50      | 5530046.40 | 46.40       |
| LOW     |        | 100.00   | +20        | 5530046.26  |
| HIGH    | 130.00 | +20      | 5530043.30 | 43.30       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5775033.19      | 33.19                 |
| 100%        |            | -30        | 5775047.27      | 47.27                 |
| 100%        |            | -20        | 5775046.33      | 46.33                 |
| 100%        |            | -10        | 5775040.82      | 40.82                 |
| 100%        |            | 0          | 5775037.44      | 37.44                 |
| 100%        |            | +10        | 5775033.87      | 33.87                 |
| 100%        |            | +30        | 5775031.94      | 31.94                 |
| 100%        |            | +40        | 5775041.75      | 41.75                 |
| 100%        |            | +50        | 5775046.30      | 46.30                 |
| LOW         |            | 100.00     | +20             | 5775044.72            |
| HIGH        | 130.00     | +20        | 5775047.04      | 47.04                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



[MIMO\_ANT.B]

**Startup after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110.00     | +20(Ref)   | 5210033.50      | 33.50                 |
| 100%        |            | -30        | 5210057.12      | 57.12                 |
| 100%        |            | -20        | 5210049.17      | 49.17                 |
| 100%        |            | -10        | 5210043.46      | 43.46                 |
| 100%        |            | 0          | 5210038.86      | 38.86                 |
| 100%        |            | +10        | 5210035.70      | 35.70                 |
| 100%        |            | +30        | 5210036.18      | 36.18                 |
| 100%        |            | +40        | 5210046.51      | 46.51                 |
| 100%        |            | +50        | 5210050.59      | 50.59                 |
| LOW         |            | 100.00     | +20             | 5210052.42            |
| HIGH        | 130.00     | +20        | 5210048.92      | 48.92                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110.00     | +20(Ref)   | 5290028.96      | 28.96                 |
| 100%        |            | -30        | 5290053.19      | 53.19                 |
| 100%        |            | -20        | 5290045.90      | 45.90                 |
| 100%        |            | -10        | 5290039.82      | 39.82                 |
| 100%        |            | 0          | 5290036.23      | 36.23                 |
| 100%        |            | +10        | 5290032.68      | 32.68                 |
| 100%        |            | +30        | 5290032.17      | 32.17                 |
| 100%        |            | +40        | 5290041.48      | 41.48                 |
| 100%        |            | +50        | 5290045.47      | 45.47                 |
| LOW         |            | 100.00     | +20             | 5290047.97            |
| HIGH        | 130.00     | +20        | 5290042.55      | 42.55                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110.00 | +20(Ref) | 5530036.78 | 36.78       |
| 100%    |        | -30      | 5530061.16 | 61.16       |
| 100%    |        | -20      | 5530053.18 | 53.18       |
| 100%    |        | -10      | 5530047.08 | 47.08       |
| 100%    |        | 0        | 5530042.86 | 42.86       |
| 100%    |        | +10      | 5530040.75 | 40.75       |
| 100%    |        | +30      | 5530039.86 | 39.86       |
| 100%    |        | +40      | 5530049.45 | 49.45       |
| 100%    |        | +50      | 5530054.59 | 54.59       |
| LOW     |        | 100.00   | +20        | 5530054.64  |
| HIGH    | 130.00 | +20      | 5530050.01 | 50.01       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110.00     | +20(Ref)   | 5775020.49      | 20.49                 |
| 100%        |            | -30        | 5775044.05      | 44.05                 |
| 100%        |            | -20        | 5775037.88      | 37.88                 |
| 100%        |            | -10        | 5775032.50      | 32.50                 |
| 100%        |            | 0          | 5775029.26      | 29.26                 |
| 100%        |            | +10        | 5775027.15      | 27.15                 |
| 100%        |            | +30        | 5775024.41      | 24.41                 |
| 100%        |            | +40        | 5775033.90      | 33.90                 |
| 100%        |            | +50        | 5775038.71      | 38.71                 |
| LOW         |            | 100.00     | +20             | 5775038.68            |
| HIGH        | 130.00     | +20        | 5775033.98      | 33.98                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

**2 minutes after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110.00     | +20(Ref)   | 5210038.91      | 38.91                 |
| 100%        |            | -30        | 5210063.41      | 63.41                 |
| 100%        |            | -20        | 5210057.13      | 57.13                 |
| 100%        |            | -10        | 5210050.16      | 50.16                 |
| 100%        |            | 0          | 5210046.83      | 46.83                 |
| 100%        |            | +10        | 5210044.56      | 44.56                 |
| 100%        |            | +30        | 5210042.83      | 42.83                 |
| 100%        |            | +40        | 5210052.15      | 52.15                 |
| 100%        |            | +50        | 5210055.50      | 55.50                 |
| LOW         |            | 100.00     | +20             | 5210058.56            |
| HIGH        | 130.00     | +20        | 5210054.38      | 54.38                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5290031.27      | 31.27                 |
| 100%        |            | -30        | 5290054.31      | 54.31                 |
| 100%        |            | -20        | 5290046.24      | 46.24                 |
| 100%        |            | -10        | 5290040.96      | 40.96                 |
| 100%        |            | 0          | 5290037.12      | 37.12                 |
| 100%        |            | +10        | 5290033.06      | 33.06                 |
| 100%        |            | +30        | 5290033.75      | 33.75                 |
| 100%        |            | +40        | 5290042.27      | 42.27                 |
| 100%        |            | +50        | 5290046.45      | 46.45                 |
| LOW         |            | 100.00     | +20             | 5290050.09            |
| HIGH        | 130.00     | +20        | 5290046.37      | 46.37                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5530034.52      | 34.52                 |
| 100%        |            | -30        | 5530057.52      | 57.52                 |
| 100%        |            | -20        | 5530051.15      | 51.15                 |
| 100%        |            | -10        | 5530045.99      | 45.99                 |
| 100%        |            | 0          | 5530041.00      | 41.00                 |
| 100%        |            | +10        | 5530038.25      | 38.25                 |
| 100%        |            | +30        | 5530037.81      | 37.81                 |
| 100%        |            | +40        | 5530048.63      | 48.63                 |
| 100%        |            | +50        | 5530052.13      | 52.13                 |
| LOW         |            | 100.00     | +20             | 5530054.02            |
| HIGH        | 130.00     | +20        | 5530049.31      | 49.31                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5775026.18      | 26.18                 |
| 100%        |            | -30        | 5775051.05      | 51.05                 |
| 100%        |            | -20        | 5775043.33      | 43.33                 |
| 100%        |            | -10        | 5775036.72      | 36.72                 |
| 100%        |            | 0          | 5775031.82      | 31.82                 |
| 100%        |            | +10        | 5775029.42      | 29.42                 |
| 100%        |            | +30        | 5775029.06      | 29.06                 |
| 100%        |            | +40        | 5775038.29      | 38.29                 |
| 100%        |            | +50        | 5775042.96      | 42.96                 |
| LOW         |            | 100.00     | +20             | 5775044.51            |
| HIGH        | 130.00     | +20        | 5775040.80      | 40.80                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



**5 minutes after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5210029.48      | 29.48                 |
| 100%        |            | -30        | 5210053.12      | 53.12                 |
| 100%        |            | -20        | 5210045.93      | 45.93                 |
| 100%        |            | -10        | 5210040.33      | 40.33                 |
| 100%        |            | 0          | 5210036.10      | 36.10                 |
| 100%        |            | +10        | 5210033.63      | 33.63                 |
| 100%        |            | +30        | 5210032.74      | 32.74                 |
| 100%        |            | +40        | 5210041.55      | 41.55                 |
| 100%        |            | +50        | 5210045.39      | 45.39                 |
| LOW         |            | 100.00     | +20             | 5210048.64            |
| HIGH        | 130.00     | +20        | 5210044.81      | 44.81                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5290032.08      | 32.08                 |
| 100%        |            | -30        | 5290055.00      | 55.00                 |
| 100%        |            | -20        | 5290047.49      | 47.49                 |
| 100%        |            | -10        | 5290040.41      | 40.41                 |
| 100%        |            | 0          | 5290035.46      | 35.46                 |
| 100%        |            | +10        | 5290032.07      | 32.07                 |
| 100%        |            | +30        | 5290034.42      | 34.42                 |
| 100%        |            | +40        | 5290043.78      | 43.78                 |
| 100%        |            | +50        | 5290047.59      | 47.59                 |
| LOW         |            | 100.00     | +20             | 5290051.27            |
| HIGH        | 130.00     | +20        | 5290046.95      | 46.95                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5530025.16 | 25.16       |
| 100%    |        | -30      | 5530048.83 | 48.83       |
| 100%    |        | -20      | 5530041.81 | 41.81       |
| 100%    |        | -10      | 5530035.50 | 35.50       |
| 100%    |        | 0        | 5530030.94 | 30.94       |
| 100%    |        | +10      | 5530027.64 | 27.64       |
| 100%    |        | +30      | 5530028.17 | 28.17       |
| 100%    |        | +40      | 5530036.46 | 36.46       |
| 100%    |        | +50      | 5530040.92 | 40.92       |
| LOW     |        | 100.00   | +20        | 5530043.70  |
| HIGH    | 130.00 | +20      | 5530039.27 | 39.27       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5775038.88      | 38.88                 |
| 100%        |            | -30        | 5775063.00      | 63.00                 |
| 100%        |            | -20        | 5775056.87      | 56.87                 |
| 100%        |            | -10        | 5775051.09      | 51.09                 |
| 100%        |            | 0          | 5775047.42      | 47.42                 |
| 100%        |            | +10        | 5775045.03      | 45.03                 |
| 100%        |            | +30        | 5775041.89      | 41.89                 |
| 100%        |            | +40        | 5775051.25      | 51.25                 |
| 100%        |            | +50        | 5775055.35      | 55.35                 |
| LOW         |            | 100.00     | +20             | 5775057.78            |
| HIGH        | 130.00     | +20        | 5775052.23      | 52.23                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

**10 minutes after the EUT is energized**

OPERATING BAND: UNII Band 1  
 OPERATING FREQUENCY: 5,210,000,000 Hz  
 CHANNEL: 42  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5210030.25      | 30.25                 |
| 100%        |            | -30        | 5210054.95      | 54.95                 |
| 100%        |            | -20        | 5210047.61      | 47.61                 |
| 100%        |            | -10        | 5210040.82      | 40.82                 |
| 100%        |            | 0          | 5210037.70      | 37.70                 |
| 100%        |            | +10        | 5210034.85      | 34.85                 |
| 100%        |            | +30        | 5210033.20      | 33.20                 |
| 100%        |            | +40        | 5210041.58      | 41.58                 |
| 100%        |            | +50        | 5210046.92      | 46.92                 |
| LOW         |            | 100.00     | +20             | 5210047.91            |
| HIGH        | 130.00     | +20        | 5210045.18      | 45.18                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2A  
 OPERATING FREQUENCY: 5,290,000,000 Hz  
 CHANNEL: 58  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5290039.24 | 39.24       |
| 100%    |        | -30      | 5290063.42 | 63.42       |
| 100%    |        | -20      | 5290056.67 | 56.67       |
| 100%    |        | -10      | 5290049.94 | 49.94       |
| 100%    |        | 0        | 5290046.77 | 46.77       |
| 100%    |        | +10      | 5290044.32 | 44.32       |
| 100%    |        | +30      | 5290043.34 | 43.34       |
| 100%    |        | +40      | 5290052.35 | 52.35       |
| 100%    |        | +50      | 5290057.22 | 57.22       |
| LOW     |        | 100.00   | +20        | 5290057.37  |
| HIGH    | 130.00 | +20      | 5290053.66 | 53.66       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 2C  
 OPERATING FREQUENCY: 5,530,000,000 Hz  
 CHANNEL: 106  
 REFERENCE VOLTAGE: 110 AC

| Voltage | Power  | Temp.    | Frequency  | Frequency   |
|---------|--------|----------|------------|-------------|
| (%)     | (AC)   | (°C)     | (kHz)      | Error (kHz) |
| 100%    | 110    | +20(Ref) | 5530041.12 | 41.12       |
| 100%    |        | -30      | 5530065.15 | 65.15       |
| 100%    |        | -20      | 5530058.06 | 58.06       |
| 100%    |        | -10      | 5530051.04 | 51.04       |
| 100%    |        | 0        | 5530046.23 | 46.23       |
| 100%    |        | +10      | 5530042.80 | 42.80       |
| 100%    |        | +30      | 5530044.92 | 44.92       |
| 100%    |        | +40      | 5530054.44 | 54.44       |
| 100%    |        | +50      | 5530060.08 | 60.08       |
| LOW     |        | 100.00   | +20        | 5530058.48  |
| HIGH    | 130.00 | +20      | 5530055.27 | 55.27       |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

OPERATING BAND: UNII Band 3  
 OPERATING FREQUENCY: 5,775,000,000 Hz  
 CHANNEL: 155  
 REFERENCE VOLTAGE: 110 AC

| Voltage (%) | Power (AC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|------------|------------|-----------------|-----------------------|
| 100%        | 110        | +20(Ref)   | 5775037.67      | 37.67                 |
| 100%        |            | -30        | 5775061.68      | 61.68                 |
| 100%        |            | -20        | 5775053.61      | 53.61                 |
| 100%        |            | -10        | 5775048.37      | 48.37                 |
| 100%        |            | 0          | 5775043.73      | 43.73                 |
| 100%        |            | +10        | 5775040.17      | 40.17                 |
| 100%        |            | +30        | 5775039.78      | 39.78                 |
| 100%        |            | +40        | 5775048.85      | 48.85                 |
| 100%        |            | +50        | 5775052.19      | 52.19                 |
| LOW         |            | 100.00     | +20             | 5775057.33            |
| HIGH        | 130.00     | +20        | 5775051.15      | 51.15                 |

**Note:**

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency error noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.



## 10.7 STRADDLE CHANNEL

### 10.7.1 26dB Bandwidth

[ANT.A]

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11a         | UNII 2C | 5720            | 144     | 5710.76                  | 14.24                |
| 802.11n(HT20)   |         |                 |         | 5710.28                  | 14.72                |
| 802.11ac(VHT20) |         |                 |         | 5710.20                  | 14.80                |
| 802.11a         | UNII 3  | 5720            | 144     | 5729.20                  | 4.20                 |
| 802.11n(HT20)   |         |                 |         | 5729.64                  | 4.64                 |
| 802.11ac(VHT20) |         |                 |         | 5729.72                  | 4.72                 |

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11n(HT40)   | UNII 2C | 5710            | 142     | 5689.60                  | 35.40                |
| 802.11ac(VHT40) |         |                 |         | 5689.52                  | 35.48                |
| 802.11n(HT40)   | UNII 3  | 5710            | 142     | 5730.24                  | 5.24                 |
| 802.11ac(VHT40) |         |                 |         | 5730.64                  | 5.64                 |

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11ac(VHT80) | UNII 2C | 5690            | 138     | 5649.56                  | 75.44                |
|                 | UNII 3  | 5690            | 138     | 5731.16                  | 6.16                 |

**Note:**

[UNII 2C] 26dB Bandwidth = 5725MHz - Measured Frequency[MHz]

[UNII 3C] 26dB Bandwidth = Measured Frequency[MHz] -5725MHz

**[ANT.B]**

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11a         | UNII 2C | 5720            | 144     | 5710.72                  | 14.28                |
| 802.11n(HT20)   |         |                 |         | 5710.32                  | 14.68                |
| 802.11ac(VHT20) |         |                 |         | 5710.24                  | 14.76                |
| 802.11a         | UNII 3  | 5720            | 144     | 5729.24                  | 4.24                 |
| 802.11n(HT20)   |         |                 |         | 5729.68                  | 4.68                 |
| 802.11ac(VHT20) |         |                 |         | 5729.68                  | 4.68                 |

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11n(HT40)   | UNII 2C | 5710            | 142     | 5689.68                  | 35.32                |
| 802.11ac(VHT40) |         |                 |         | 5689.44                  | 35.56                |
| 802.11n(HT40)   | UNII 3  | 5710            | 142     | 5730.32                  | 5.32                 |
| 802.11ac(VHT40) |         |                 |         | 5730.48                  | 5.48                 |

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11ac(VHT80) | UNII 2C | 5690            | 138     | 5649.32                  | 75.68                |
|                 | UNII 3  | 5690            | 138     | 5731.16                  | 6.16                 |

**Note:**

[UNII 2C] 26dB Bandwidth = 5725MHz - Measured Frequency[MHz]

[UNII 3C] 26dB Bandwidth = Measured Frequency[MHz] -5725MHz

## [MIMO\_ANT.A]

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11n(HT20)   | UNII 2C | 5720            | 144     | 5710.36                  | 14.64                |
| 802.11ac(VHT20) |         |                 |         | 5710.36                  | 14.64                |
| 802.11n(HT20)   | UNII 3  | 5720            | 144     | 5729.76                  | 4.76                 |
| 802.11ac(VHT20) |         |                 |         | 5729.68                  | 4.68                 |

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11n(HT40)   | UNII 2C | 5710            | 142     | 5690.32                  | 34.68                |
| 802.11ac(VHT40) |         |                 |         | 5689.28                  | 35.72                |
| 802.11n(HT40)   | UNII 3  | 5710            | 142     | 5730.56                  | 5.56                 |
| 802.11ac(VHT40) |         |                 |         | 5730.16                  | 5.16                 |

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11ac(VHT80) | UNII 2C | 5690            | 138     | 5649.32                  | 75.68                |
|                 | UNII 3  | 5690            | 138     | 5730.80                  | 5.80                 |

**Note:**

[UNII 2C] 26dB Bandwidth = 5725MHz - Measured Frequency[MHz]

[UNII 3C] 26dB Bandwidth = Measured Frequency[MHz] -5725MHz

**[MIMO\_ANT.B]**

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11n(HT20)   | UNII 2C | 5720            | 144     | 5710.36                  | 14.64                |
| 802.11ac(VHT20) |         |                 |         | 5710.48                  | 14.52                |
| 802.11n(HT20)   | UNII 3  | 5720            | 144     | 5729.72                  | 4.72                 |
| 802.11ac(VHT20) |         |                 |         | 5729.72                  | 4.72                 |

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11n(HT40)   | UNII 2C | 5710            | 142     | 5689.68                  | 35.32                |
| 802.11ac(VHT40) |         |                 |         | 5690.32                  | 34.68                |
| 802.11n(HT40)   | UNII 3  | 5710            | 142     | 5730.24                  | 5.24                 |
| 802.11ac(VHT40) |         |                 |         | 5729.84                  | 4.84                 |

| Mode            | Band    | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11ac(VHT80) | UNII 2C | 5690            | 138     | 5649.80                  | 75.20                |
|                 | UNII 3  | 5690            | 138     | 5730.80                  | 5.80                 |

**Note:**

[UNII 2C] 26dB Bandwidth = 5725MHz - Measured Frequency[MHz]

[UNII 3C] 26dB Bandwidth = Measured Frequency[MHz] -5725MHz

[ANT.A]

- ▣ Test Plots (26dB Bandwidth)

802.11a UNII Band

802.11n(HT20) UNII Band



802.11ac(VHT20) UNII Band



Test Plots (26dB Bandwidth)

802.11n(HT40) UNII Band



802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band



[ANT.B]

- ▣ Test Plots (26dB Bandwidth)

802.11a UNII Band



802.11n(HT20) UNII Band



802.11ac(VHT20) UNII Band





▣ Test Plots (26dB Bandwidth)

802.11n(HT40) UNII Band



802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band





[MIMO\_ANT.A]

▣ Test Plots (26dB Bandwidth)

802.11n(HT20) UNII Band



802.11ac(VHT20) UNII Band



802.11n(HT40) UNII Band



Test Plots (26dB Bandwidth)

802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band



[MIMO\_ANT.B]

▣ Test Plots (26dB Bandwidth)

802.11n(HT20) UNII Band



802.11ac(VHT20) UNII Band



802.11n(HT40) UNII Band



Test Plots (26dB Bandwidth)

802.11ac(VHT40) UNII Band



802.11ac(VHT80) UNII Band



### 10.7.2 6dB Bandwidth

#### [ANT.A]

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11a         | UNII 3 | 5720            | 144     | 5728.20                  | 3.20                | > 0.5       |
| 802.11n(HT20)   |        |                 |         | 5728.80                  | 3.80                | > 0.5       |
| 802.11ac(VHT20) |        |                 |         | 5728.80                  | 3.80                | > 0.5       |

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11n(HT40)   | UNII 3 | 5710            | 142     | 5727.84                  | 2.84                | > 0.5       |
| 802.11ac(VHT40) |        |                 |         | 5727.84                  | 2.84                | > 0.5       |

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11ac(VHT80) | UNII 3 | 5690            | 138     | 5727.68                  | 2.68                | > 0.5       |

#### **Note:**

6dB Bandwidth = Measured Frequency[MHz] – 5725MHz

**[ANT.B]**

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11a         | UNII 3 | 5720            | 144     | 5728.20                  | 3.20                | > 0.5       |
| 802.11n(HT20)   |        |                 |         | 5728.80                  | 3.80                | > 0.5       |
| 802.11ac(VHT20) |        |                 |         | 5728.80                  | 3.80                | > 0.5       |

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11n(HT40)   | UNII 3 | 5710            | 142     | 5727.84                  | 2.84                | > 0.5       |
| 802.11ac(VHT40) |        |                 |         | 5727.84                  | 2.84                | > 0.5       |

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11ac(VHT80) | UNII 3 | 5690            | 138     | 5727.68                  | 2.68                | > 0.5       |

**Note:**

6dB Bandwidth = Measured Frequency[MHz] – 5725MHz

**[MIMO\_ANT.A]**

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11n(HT20)   | UNII 3 | 5720            | 144     | 5728.84                  | 3.84                | > 0.5       |
| 802.11ac(VHT20) |        |                 |         | 5728.84                  | 3.84                | > 0.5       |

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11n(HT40)   | UNII 3 | 5710            | 142     | 5727.92                  | 2.92                | > 0.5       |
| 802.11ac(VHT40) |        |                 |         | 5727.84                  | 2.84                | > 0.5       |

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11ac(VHT80) | UNII 3 | 5690            | 138     | 5727.68                  | 2.68                | > 0.5       |

**Note:**

6dB Bandwidth = Measured Frequency[MHz] – 5725MHz

**[MIMO\_ANT.B]**

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11n(HT20)   | UNII 3 | 5720            | 144     | 5728.84                  | 3.84                | > 0.5       |
| 802.11ac(VHT20) |        |                 |         | 5728.84                  | 3.84                | > 0.5       |

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11n(HT40)   | UNII 3 | 5710            | 142     | 5727.92                  | 2.92                | > 0.5       |
| 802.11ac(VHT40) |        |                 |         | 5727.68                  | 2.68                | > 0.5       |

| Mode            | Band   | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11ac(VHT80) | UNII 3 | 5690            | 138     | 5727.68                  | 2.68                | > 0.5       |

**Note:**

6dB Bandwidth = Measured Frequency[MHz] – 5725MHz



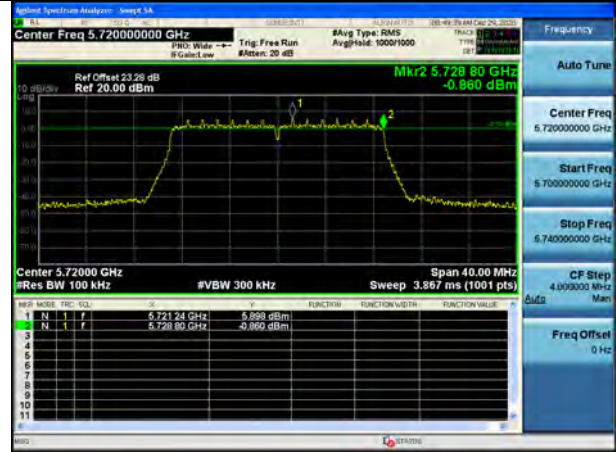
[ANT.A]

- ▣ Test Plots(UNII 3 Band 6dB Bandwidth)

802.11a CH.144



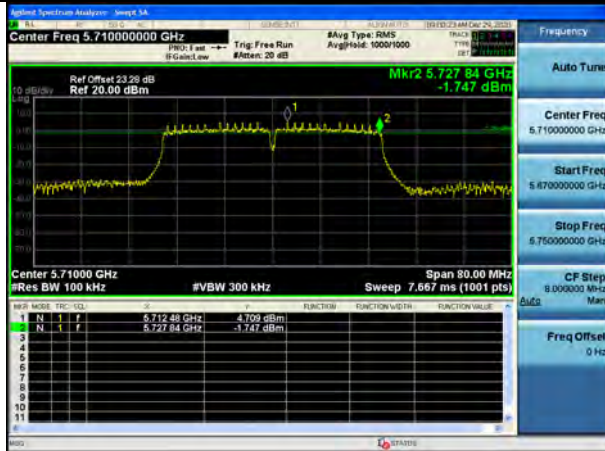
802.11n\_HT20 CH.144



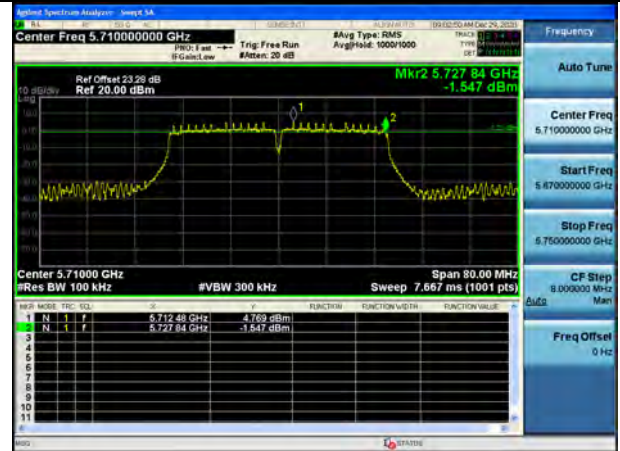
802.11ac\_VHT20 CH.144



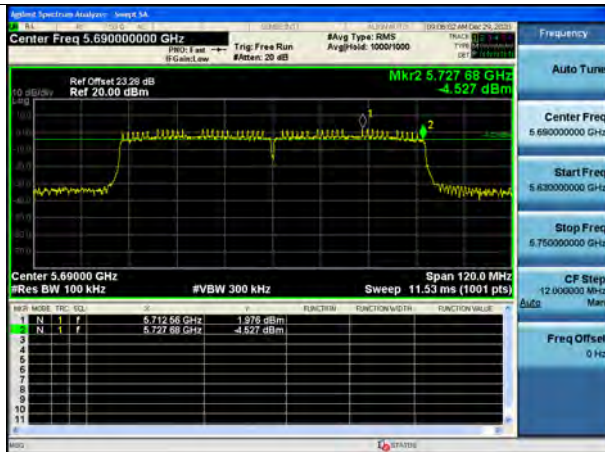
802.11n\_HT40 CH.142



802.11ac\_VHT40 CH.142



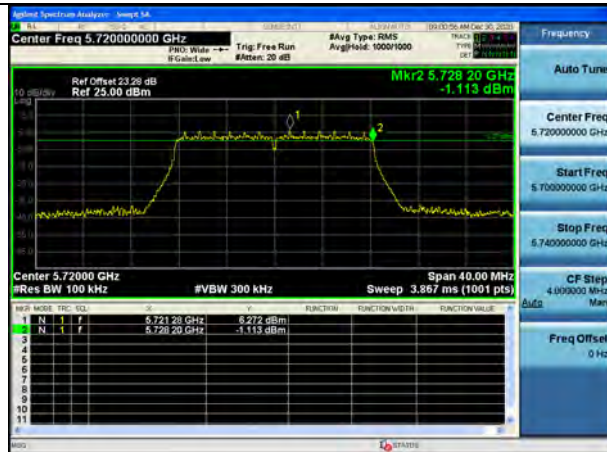
802.11ac\_VHT80 CH.138



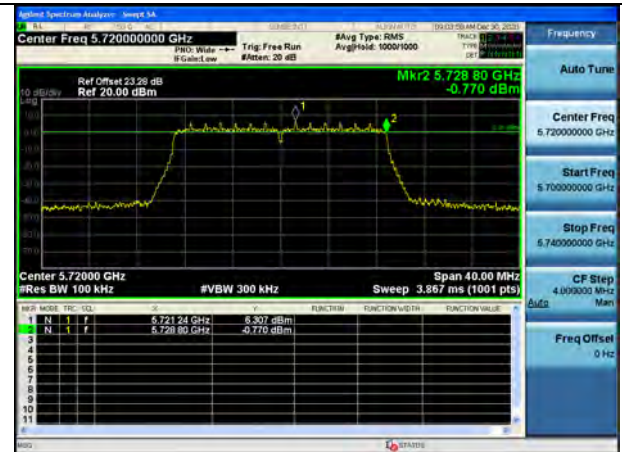
[ANT.B]

- ▣ Test Plots(UNII 3 Band 6dB Bandwidth)

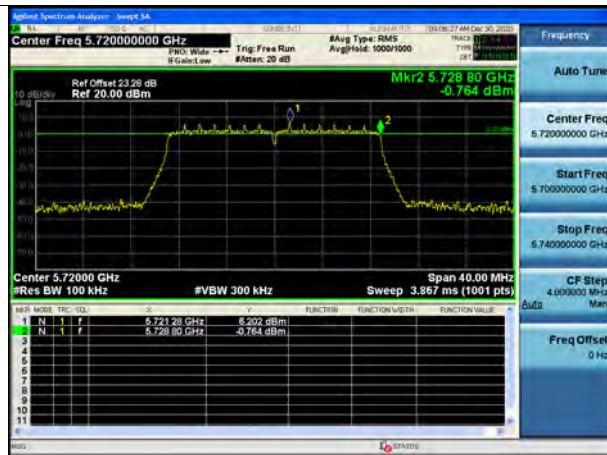
802.11a CH.144



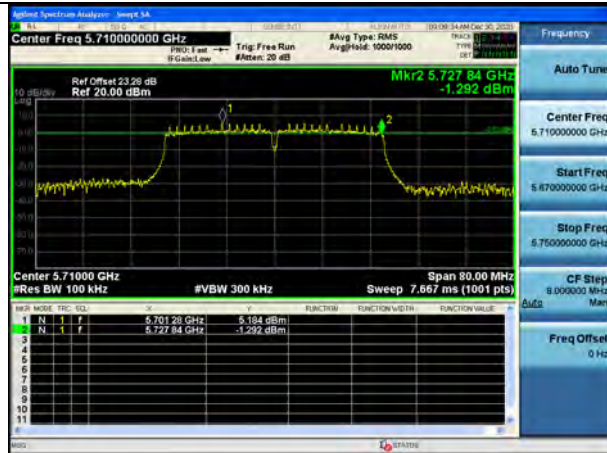
802.11n\_HT20 CH.144



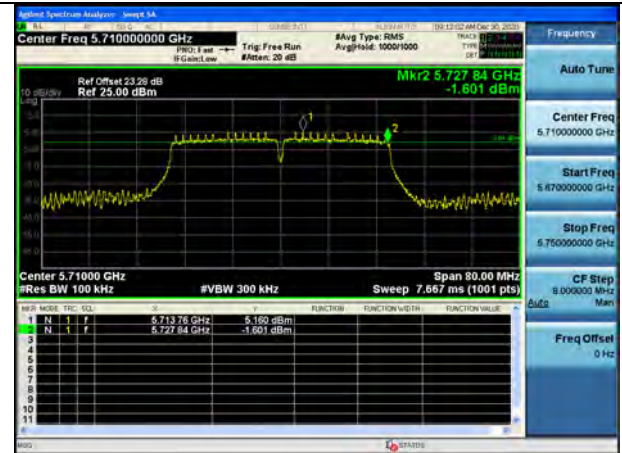
802.11ac\_VHT20 CH.144



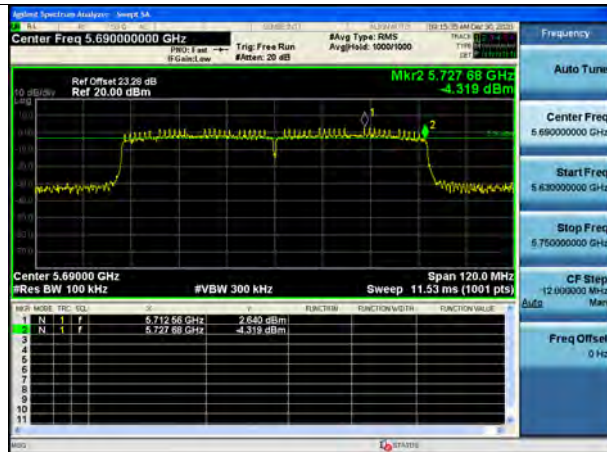
802.11n\_HT40 CH.142



802.11ac\_VHT40 CH.142



802.11ac\_VHT80 CH.138

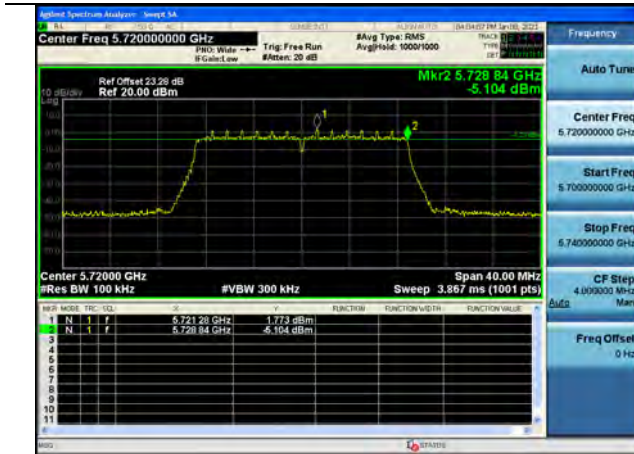




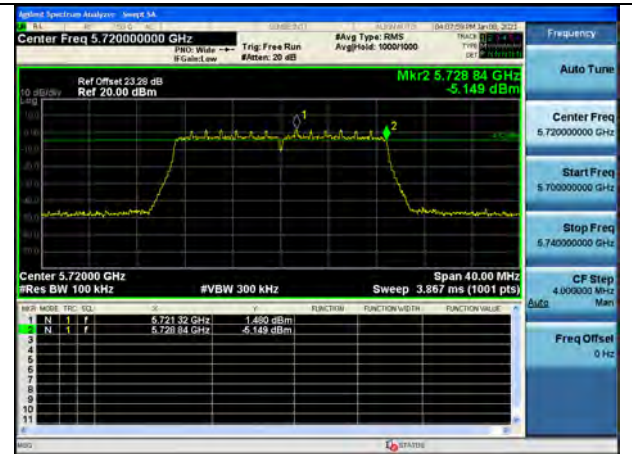
[MIMO\_ANT.A]

- ▣ Test Plots(UNII 3 Band 6dB Bandwidth)

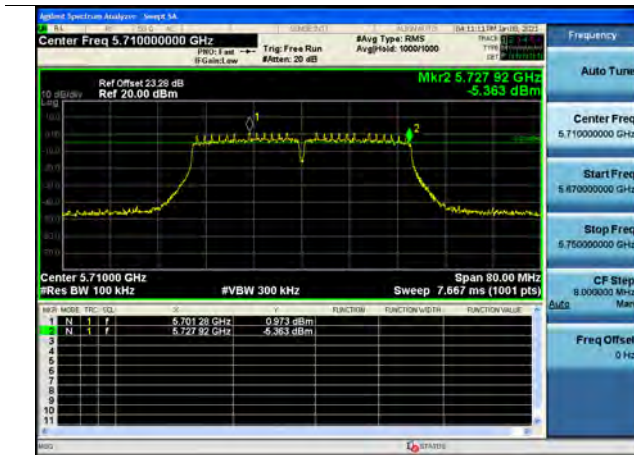
802.11n\_HT20 CH.144



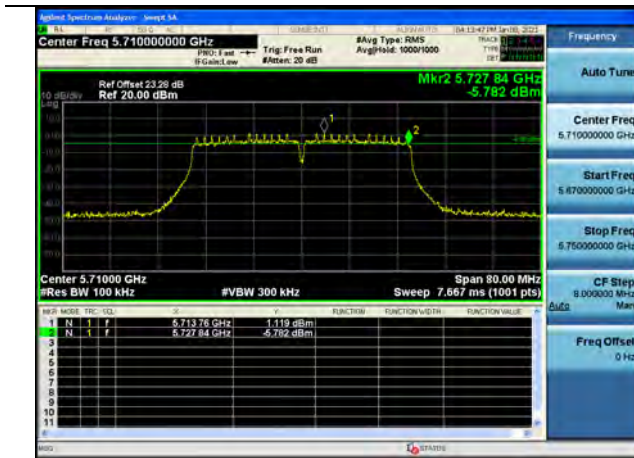
802.11ac\_VHT20 CH.144



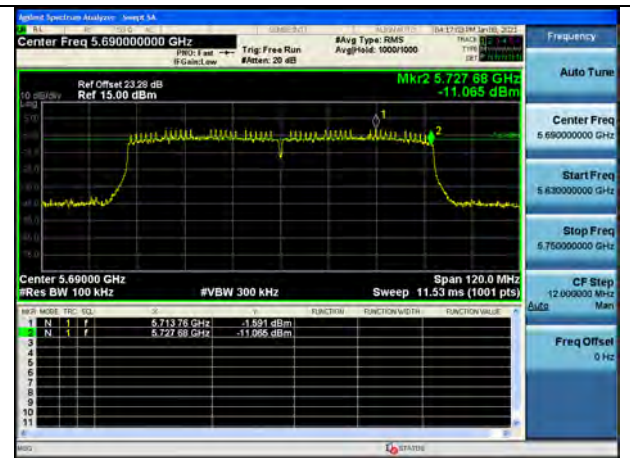
802.11n\_HT40 CH.142



802.11ac\_VHT40 CH.142



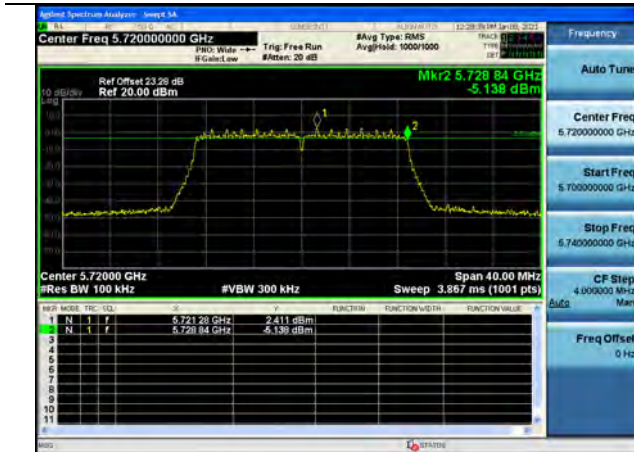
802.11ac\_VHT80 CH.138



[MIMO\_ANT.B]

- ▣ Test Plots(UNII 3 Band 6dB Bandwidth)

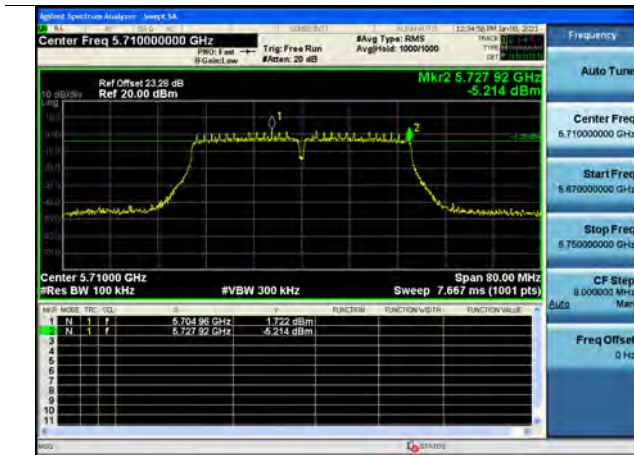
802.11n\_HT20 CH.144



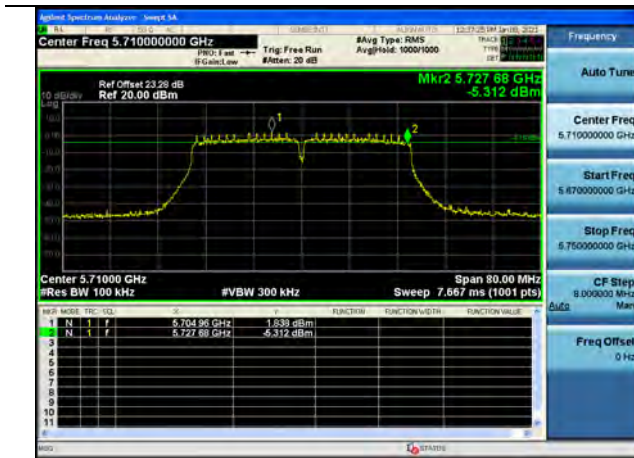
802.11ac\_VHT20 CH.144



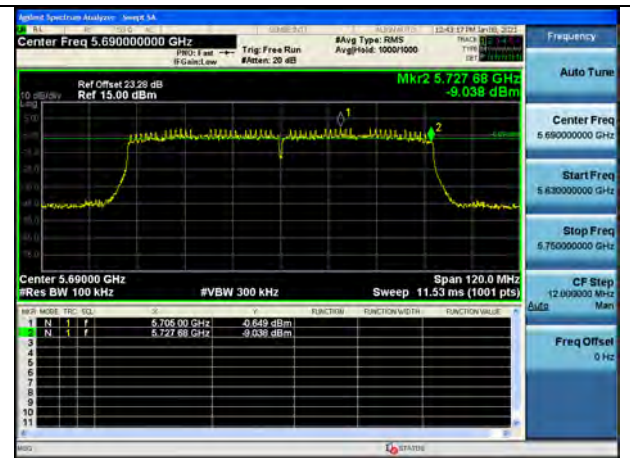
802.11n\_HT40 CH.142



802.11ac\_VHT40 CH.142



802.11ac\_VHT80 CH.138





### 10.7.3 Output Power

[ANT.A]

| Mode            | Frequency [MHz]        | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11a         | 5720<br>(UNII 2C Band) | 144     | 10.95                | 5.911                  | 16.86             | 22.54       |
| 802.11n(HT20)   |                        |         | 10.51                | 6.170                  | 16.68             | 22.68       |
| 802.11ac(VHT20) |                        |         | 10.29                | 6.521                  | 16.82             | 22.70       |
| 802.11a         | 5720<br>(UNII 3 Band)  | 144     | 4.97                 | 5.911                  | 10.88             | 30.00       |
| 802.11n(HT20)   |                        |         | 5.06                 | 6.170                  | 11.23             | 30.00       |
| 802.11ac(VHT20) |                        |         | 4.68                 | 6.521                  | 11.20             | 30.00       |

| Mode            | Frequency [MHz]        | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11n(HT40)   | 5710<br>(UNII 2C Band) | 142     | 11.55                | 7.683                  | 19.24             | 23.98       |
| 802.11ac(VHT40) |                        |         | 11.22                | 8.114                  | 19.33             | 23.98       |
| 802.11n(HT40)   | 5710<br>(UNII 3 Band)  | 142     | -0.45                | 7.683                  | 7.23              | 30.00       |
| 802.11ac(VHT40) |                        |         | -0.18                | 8.114                  | 7.93              | 30.00       |

| Mode            | Frequency [MHz]        | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11ac(VHT80) | 5690<br>(UNII 2C Band) | 138     | 9.64                 | 9.243                  | 18.89             | 23.98       |
|                 | 5690<br>(UNII 3 Band)  | 138     | -5.16                | 9.243                  | 4.08              | 30.00       |

**[ANT.B]**

| Mode            | Frequency [MHz]        | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11a         | 5720<br>(UNII 2C Band) | 144     | 12.08                | 4.853                  | 16.94             | 22.55       |
| 802.11n(HT20)   |                        |         | 11.25                | 5.593                  | 16.84             | 22.67       |
| 802.11ac(VHT20) |                        |         | 11.44                | 5.506                  | 16.95             | 22.69       |
| 802.11a         | 5720<br>(UNII 3 Band)  | 144     | 5.90                 | 4.853                  | 10.76             | 30.00       |
| 802.11n(HT20)   |                        |         | 5.63                 | 5.593                  | 11.22             | 30.00       |
| 802.11ac(VHT20) |                        |         | 5.66                 | 5.506                  | 11.17             | 30.00       |

| Mode            | Frequency [MHz]        | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11n(HT40)   | 5710<br>(UNII 2C Band) | 142     | 11.67                | 7.683                  | 19.35             | 23.98       |
| 802.11ac(VHT40) |                        |         | 11.36                | 7.797                  | 19.16             | 23.98       |
| 802.11n(HT40)   | 5710<br>(UNII 3 Band)  | 142     | 0.21                 | 7.683                  | 7.90              | 30.00       |
| 802.11ac(VHT40) |                        |         | 0.38                 | 7.797                  | 8.17              | 30.00       |

| Mode            | Frequency [MHz]        | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11ac(VHT80) | 5690<br>(UNII 2C Band) | 138     | 12.95                | 5.794                  | 18.75             | 23.98       |
|                 | 5690<br>(UNII 3 Band)  | 138     | -1.96                | 5.794                  | 3.84              | 30.00       |

**[MIMO\_ANT.A]**

| Mode            | Frequency [MHz] | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|-----------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11n(HT20)   | 5720            | 144     | 5.73                 | 6.521                  | 12.26             | 22.66       |
| 802.11ac(VHT20) | (UNII 2C Band)  |         | 5.38                 | 7.260                  | 12.64             | 22.66       |
| 802.11n(HT20)   | 5720            | 144     | 1.00                 | 6.521                  | 7.52              | 30.00       |
| 802.11ac(VHT20) | (UNII 3 Band)   |         | 0.02                 | 7.260                  | 7.28              | 30.00       |

| Mode            | Frequency [MHz] | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|-----------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11n(HT40)   | 5710            | 142     | 7.15                 | 8.117                  | 15.27             | 23.98       |
| 802.11ac(VHT40) | (UNII 2C Band)  |         | 6.49                 | 8.815                  | 15.31             | 23.98       |
| 802.11n(HT40)   | 5710            | 142     | -2.93                | 8.117                  | 5.19              | 30.00       |
| 802.11ac(VHT40) | (UNII 3 Band)   |         | -4.21                | 8.815                  | 4.60              | 30.00       |

| Mode            | Frequency [MHz]        | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11ac(VHT80) | 5690<br>(UNII 2C Band) | 138     | 5.09                 | 9.205                  | 14.29             | 23.98       |
|                 | 5690<br>(UNII 3 Band)  | 138     | -9.23                | 9.205                  | -0.03             | 30.00       |

**[MIMO\_ANT.B]**

| Mode            | Frequency [MHz] | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|-----------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11n(HT20)   | 5720            | 144     | 7.55                 | 5.531                  | 13.08             | 22.66       |
| 802.11ac(VHT20) | (UNII 2C Band)  |         | 6.09                 | 7.049                  | 13.14             | 22.62       |
| 802.11n(HT20)   | 5720            | 144     | 1.86                 | 5.531                  | 7.40              | 30.00       |
| 802.11ac(VHT20) | (UNII 3 Band)   |         | 0.25                 | 7.049                  | 7.30              | 30.00       |

| Mode            | Frequency [MHz] | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|-----------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11n(HT40)   | 5710            | 142     | 7.42                 | 8.605                  | 16.03             | 23.98       |
| 802.11ac(VHT40) | (UNII 2C Band)  |         | 6.59                 | 9.243                  | 15.83             | 23.98       |
| 802.11n(HT40)   | 5710            | 142     | -3.35                | 8.605                  | 5.25              | 30.00       |
| 802.11ac(VHT40) | (UNII 3 Band)   |         | -4.13                | 9.243                  | 5.11              | 30.00       |

| Mode            | Frequency [MHz]        | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11ac(VHT80) | 5690<br>(UNII 2C Band) | 138     | 5.70                 | 9.741                  | 15.44             | 23.98       |
|                 | 5690<br>(UNII 3 Band)  | 138     | -8.32                | 9.741                  | 1.42              | 30.00       |

▣ Test Plots [ANT.A]

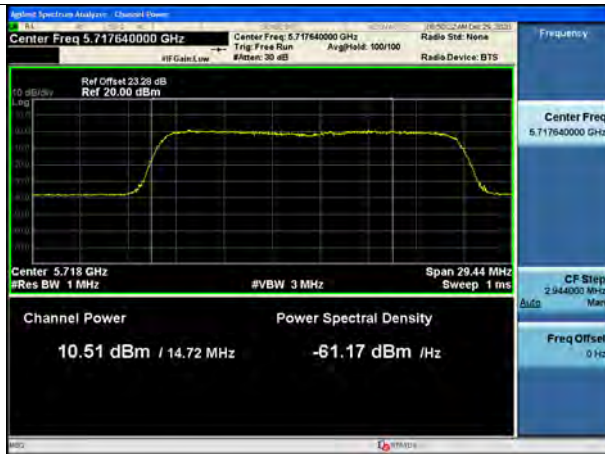
802.11a UNII 2C Band



802.11a UNII 3 Band



802.11n(HT20) UNII 2C Band



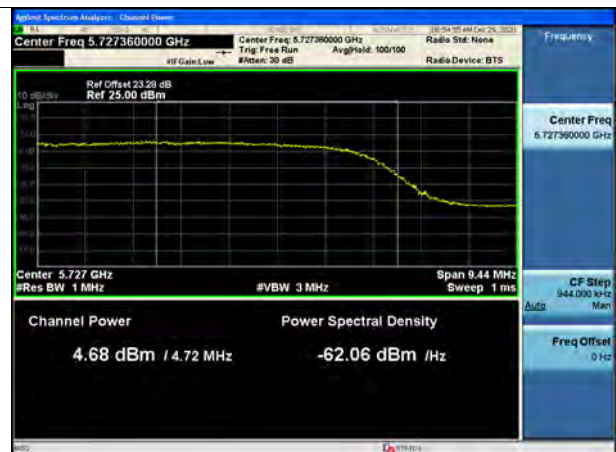
802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



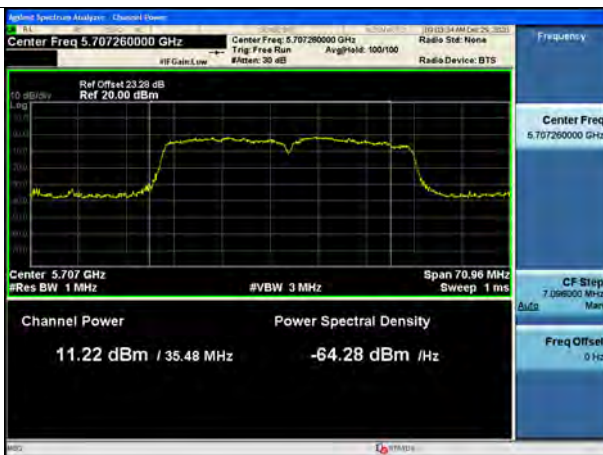
802.11n(HT40) UNII 2C Band



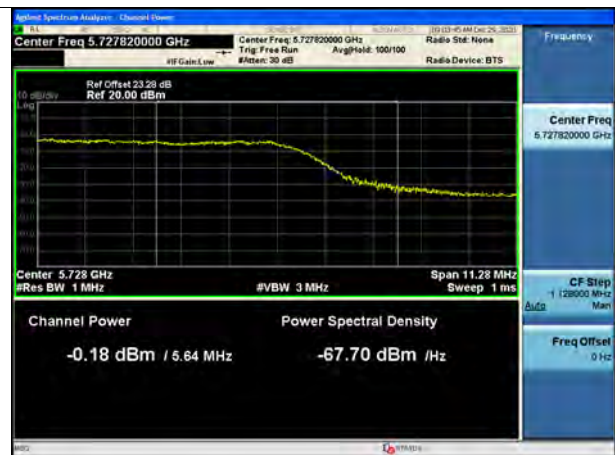
802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



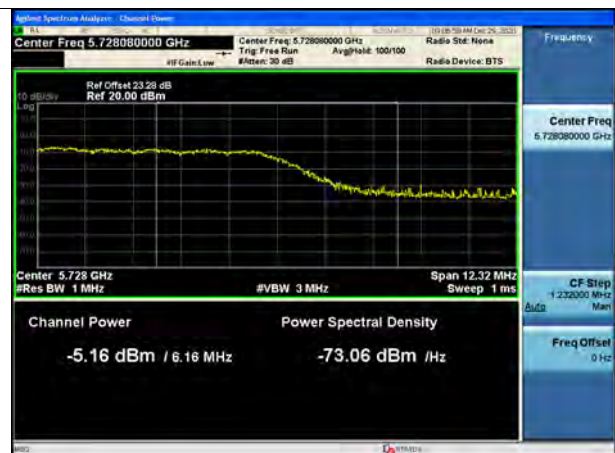
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



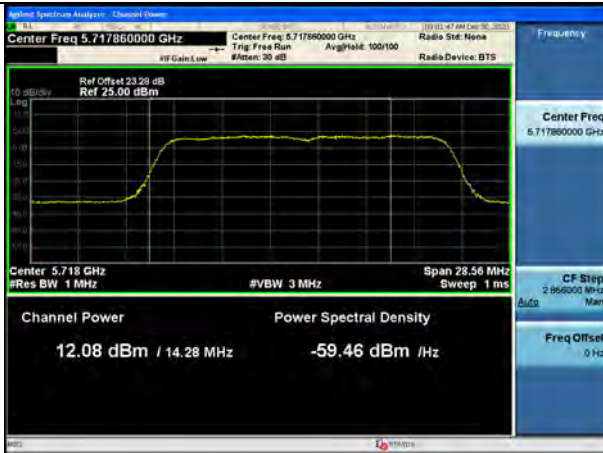
802.11ac(VHT80) UNII 3 Band





▣ Test Plots\_[ANT.B]

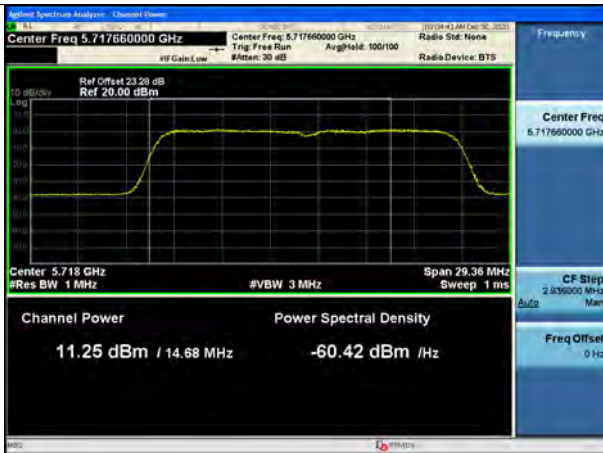
802.11a UNII 2C Band



802.11a UNII 3 Band



802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



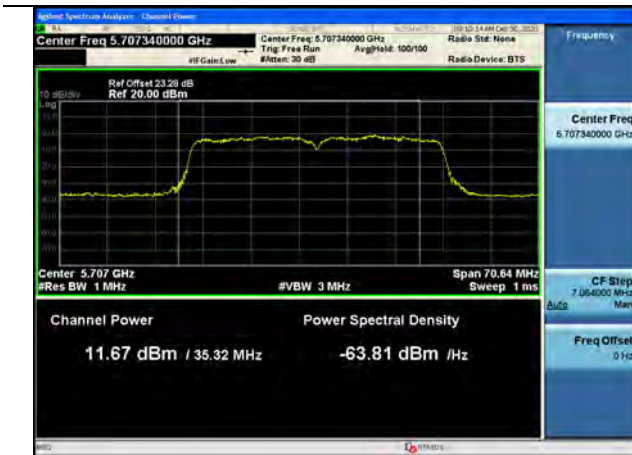
802.11ac(VHT20) UNII 2C Band



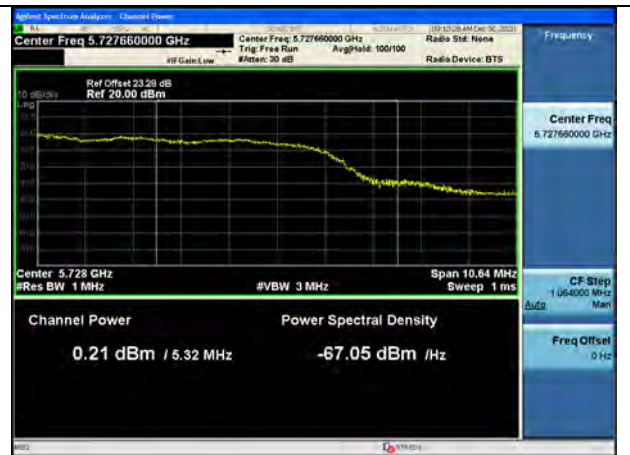
802.11ac(VHT20) UNII 3 Band



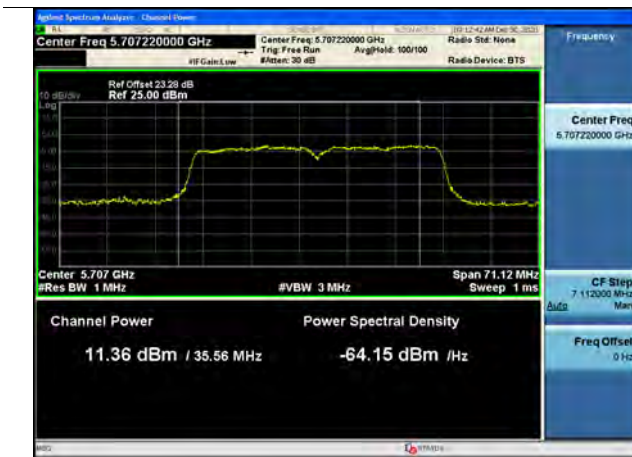
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



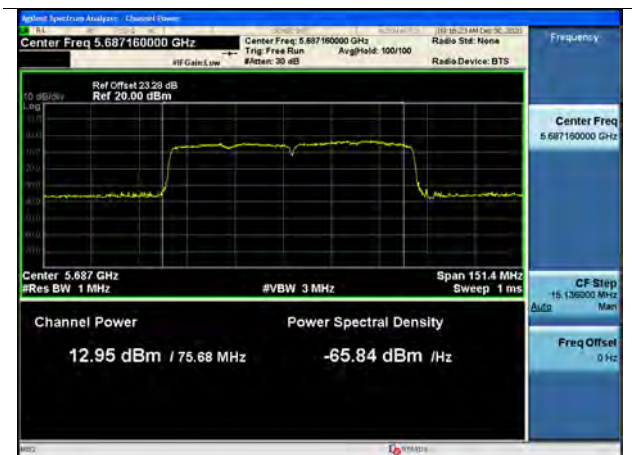
802.11ac(VHT40) UNII 2C Band



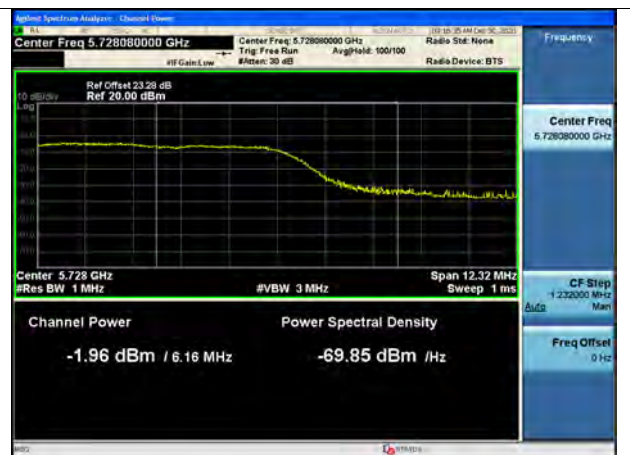
802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



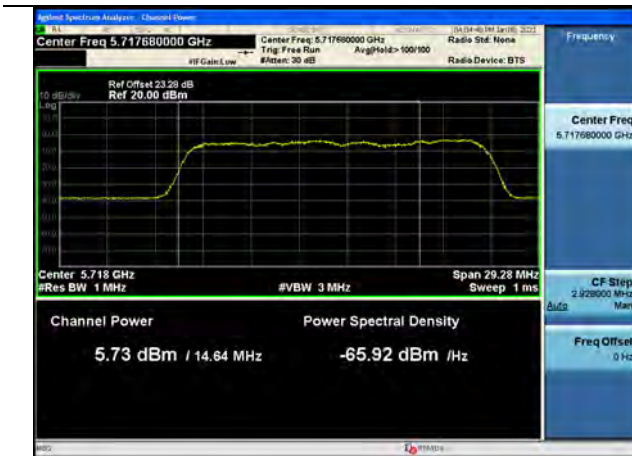
802.11ac(VHT80) UNII 3 Band





▣ Test Plots\_[MIMO\_ANT.A]

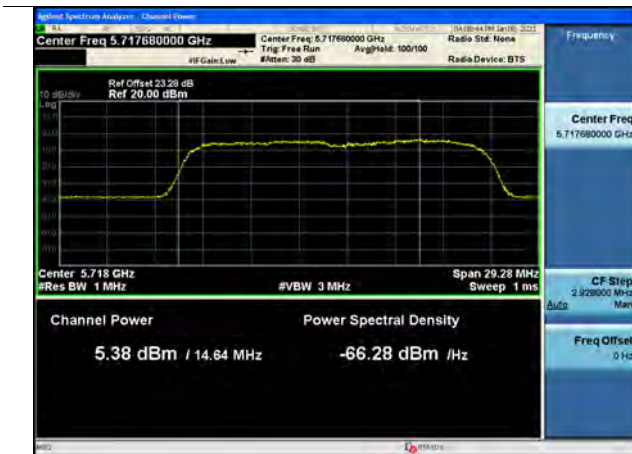
802.11n(HT20) UNII 2C Band



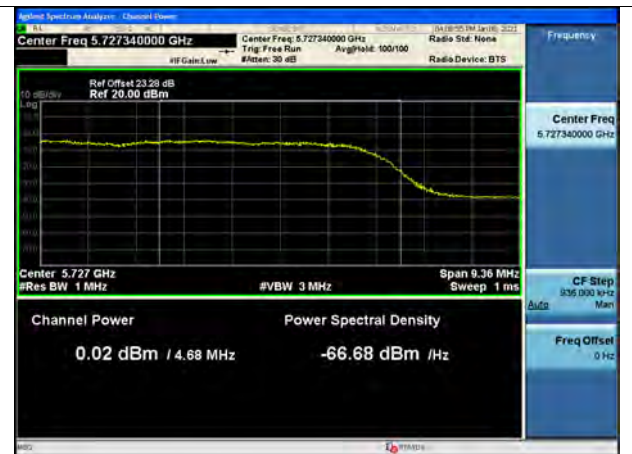
802.11n(HT20) UNII 3 Band



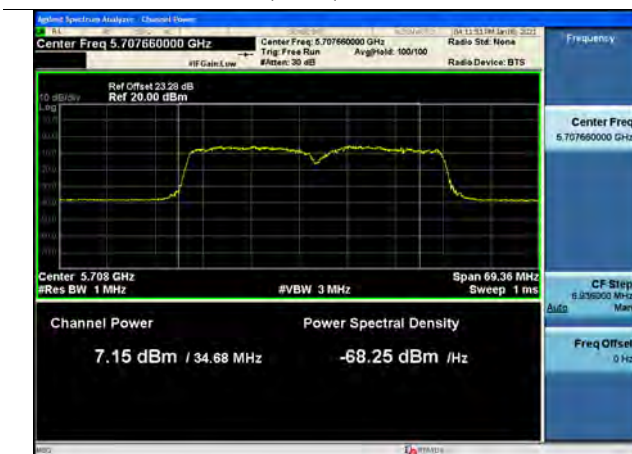
802.11ac(VHT20) UNII 2C Band



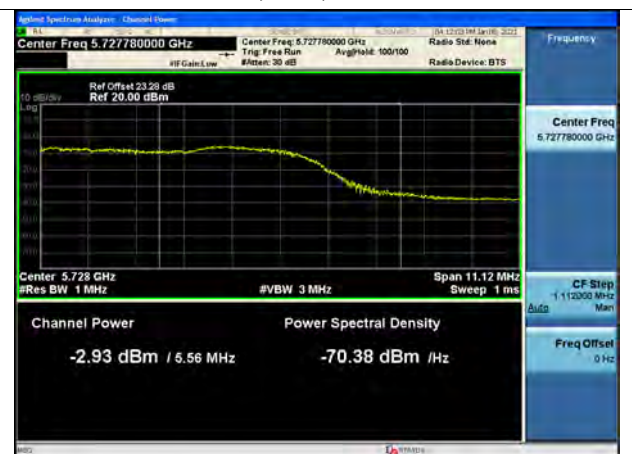
802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



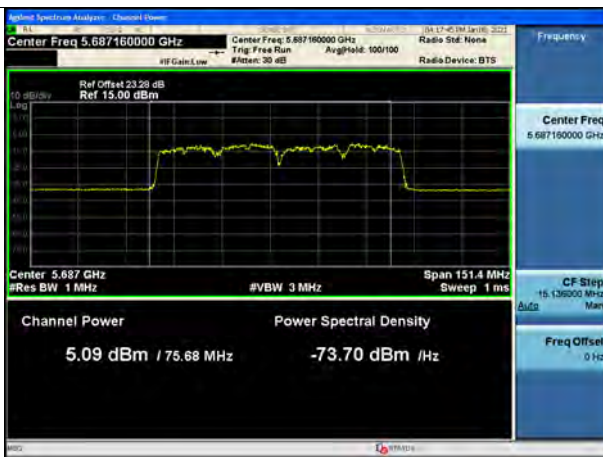
802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



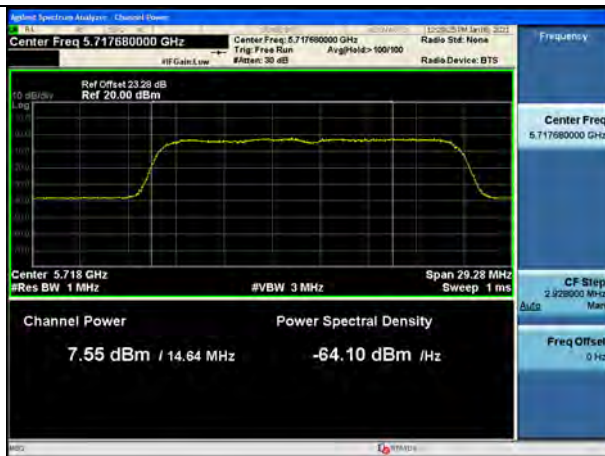
802.11ac(VHT80) UNII 3 Band





▣ Test Plots\_[MIMO\_ANT.B]

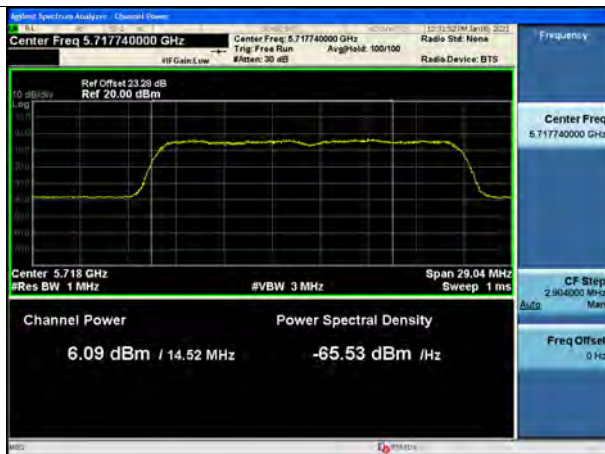
802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



### 10.7.4 Power Spectral Density

[ANT.A]

| Mode            | Frequency [MHz]        | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|------------------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11a         | 5720<br>(UNII 2C Band) | 144     | 2.011                  | 5.911                  | 7.922           | 11dBm/<br>MHz     |
| 802.11n(HT20)   |                        |         | 1.201                  | 6.170                  | 7.371           |                   |
| 802.11ac(VHT20) |                        |         | 0.684                  | 6.521                  | 7.205           |                   |
| 802.11a         | 5720<br>(UNII 3 Band)  | 144     | -1.780                 | 5.911                  | 4.131           | 30 dBm<br>/500kHz |
| 802.11n(HT20)   |                        |         | -2.120                 | 6.170                  | 4.050           |                   |
| 802.11ac(VHT20) |                        |         | -1.864                 | 6.521                  | 4.657           |                   |

| Mode            | Frequency [MHz]        | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|------------------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11n(HT40)   | 5710<br>(UNII 2C Band) | 142     | -0.254                 | 7.683                  | 7.429           | 11dBm/<br>MHz     |
| 802.11ac(VHT40) |                        |         | -0.850                 | 8.114                  | 7.264           |                   |
| 802.11n(HT40)   | 5710<br>(UNII 3 Band)  | 142     | -5.893                 | 7.683                  | 1.790           | 30 dBm/<br>500kHz |
| 802.11ac(VHT40) |                        |         | -6.343                 | 8.114                  | 1.771           |                   |

| Mode            | Frequency [MHz]        | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|------------------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11ac(VHT80) | 5690<br>(UNII 2C Band) | 138     | -5.079                 | 9.243                  | 4.164           | 11dBm/<br>MHz     |
|                 | 5690<br>(UNII 3 Band)  | 138     | -9.570                 | 9.243                  | -0.327          | 30 dBm/<br>500kHz |

**[ANT.B]**

| Mode            | Frequency [MHz]        | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|------------------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11a         | 5720<br>(UNII 2C Band) | 144     | 2.798                  | 4.853                  | 7.651           | 11dBm/<br>MHz     |
| 802.11n(HT20)   |                        |         | 1.785                  | 5.593                  | 7.378           |                   |
| 802.11ac(VHT20) |                        |         | 1.435                  | 5.506                  | 6.941           |                   |
| 802.11a         | 5720<br>(UNII 3 Band)  | 144     | -0.573                 | 4.853                  | 4.280           | 30 dBm<br>/500kHz |
| 802.11n(HT20)   |                        |         | -0.368                 | 5.593                  | 5.225           |                   |
| 802.11ac(VHT20) |                        |         | -1.354                 | 5.506                  | 4.152           |                   |

| Mode            | Frequency [MHz]        | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|------------------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11n(HT40)   | 5710<br>(UNII 2C Band) | 142     | -0.752                 | 7.683                  | 6.931           | 11dBm/<br>MHz     |
| 802.11ac(VHT40) |                        |         | -0.479                 | 7.797                  | 7.318           |                   |
| 802.11n(HT40)   | 5710<br>(UNII 3 Band)  | 142     | -5.764                 | 7.683                  | 1.919           | 30 dBm/<br>500kHz |
| 802.11ac(VHT40) |                        |         | -5.013                 | 7.797                  | 2.784           |                   |

| Mode            | Frequency [MHz]        | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|------------------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11ac(VHT80) | 5690<br>(UNII 2C Band) | 138     | -3.934                 | 5.794                  | 1.860           | 11dBm/<br>MHz     |
|                 | 5690<br>(UNII 3 Band)  | 138     | -8.686                 | 5.794                  | -2.892          | 30 dBm/<br>500kHz |

**[MIMO\_ANT.A]**

| Mode            | Frequency [MHz] | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|-----------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11n(HT20)   | 5720            | 144     | -3.085                 | 6.521                  | 3.436           | 11dBm/<br>MHz     |
| 802.11ac(VHT20) | (UNII 2C Band)  |         | -3.997                 | 7.260                  | 3.263           |                   |
| 802.11n(HT20)   | 5720            | 144     | -5.997                 | 6.521                  | 0.524           | 30 dBm<br>/500kHz |
| 802.11ac(VHT20) | (UNII 3 Band)   |         | -6.672                 | 7.260                  | 0.588           |                   |

| Mode            | Frequency [MHz] | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|-----------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11n(HT40)   | 5710            | 142     | -4.561                 | 8.117                  | 3.556           | 11dBm/<br>MHz     |
| 802.11ac(VHT40) | (UNII 2C Band)  |         | -5.883                 | 8.815                  | 2.932           |                   |
| 802.11n(HT40)   | 5710            | 142     | -9.478                 | 8.117                  | -1.361          | 30 dBm/<br>500kHz |
| 802.11ac(VHT40) | (UNII 3 Band)   |         | -10.533                | 8.815                  | -1.718          |                   |

| Mode            | Frequency [MHz]        | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|------------------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11ac(VHT80) | 5690<br>(UNII 2C Band) | 138     | -10.492                | 9.205                  | -1.287          | 11dBm/<br>MHz     |
|                 | 5690<br>(UNII 3 Band)  | 138     | -17.456                | 9.205                  | -8.251          | 30 dBm/<br>500kHz |

**[MIMO\_ANT.B]**

| Mode            | Frequency [MHz] | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|-----------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11n(HT20)   | 5720            | 144     | -1.650                 | 5.531                  | 3.881           | 11dBm/<br>MHz     |
| 802.11ac(VHT20) | (UNII 2C Band)  |         | -2.918                 | 7.049                  | 4.131           |                   |
| 802.11n(HT20)   | 5720            | 144     | -5.223                 | 5.531                  | 0.308           | 30 dBm<br>/500kHz |
| 802.11ac(VHT20) | (UNII 3 Band)   |         | -6.510                 | 7.049                  | 0.539           |                   |

| Mode            | Frequency [MHz] | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|-----------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11n(HT40)   | 5710            | 142     | -4.948                 | 8.605                  | 3.657           | 11dBm/<br>MHz     |
| 802.11ac(VHT40) | (UNII 2C Band)  |         | -5.220                 | 9.243                  | 4.023           |                   |
| 802.11n(HT40)   | 5710            | 142     | -9.512                 | 8.605                  | -0.907          | 30 dBm/<br>500kHz |
| 802.11ac(VHT40) | (UNII 3 Band)   |         | -10.576                | 9.243                  | -1.333          |                   |

| Mode            | Frequency [MHz]        | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm)       |
|-----------------|------------------------|---------|------------------------|------------------------|-----------------|-------------------|
| 802.11ac(VHT80) | 5690<br>(UNII 2C Band) | 138     | -9.882                 | 9.741                  | -0.141          | 11dBm/<br>MHz     |
|                 | 5690<br>(UNII 3 Band)  | 138     | -13.785                | 9.741                  | -4.044          | 30 dBm/<br>500kHz |

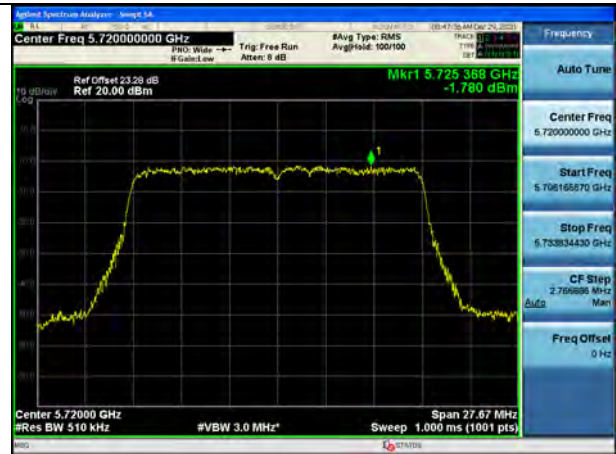


## Test Plots [ANT.A]

802.11a UNII 2C Band



802.11a UNII 3 Band



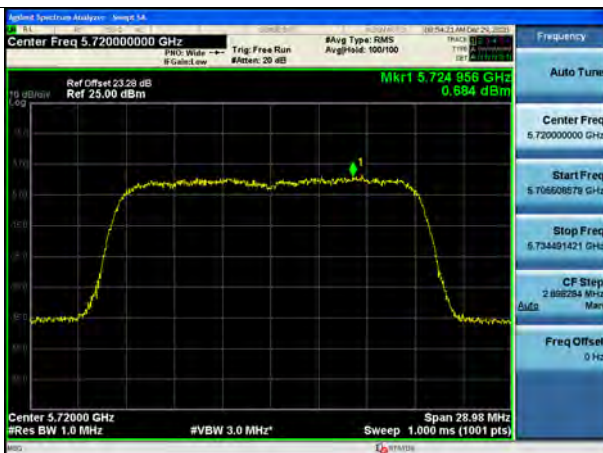
802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



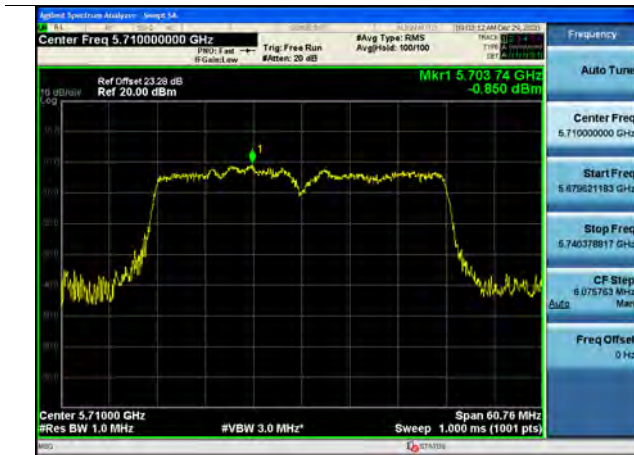
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band





## Test Plots\_[ANT.B]

802.11a UNII 2C Band



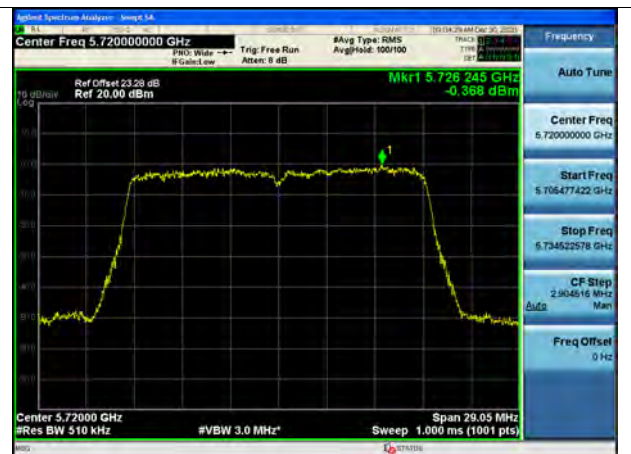
802.11a UNII 3 Band



802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band

802.11n(HT40) UNII 3 Band



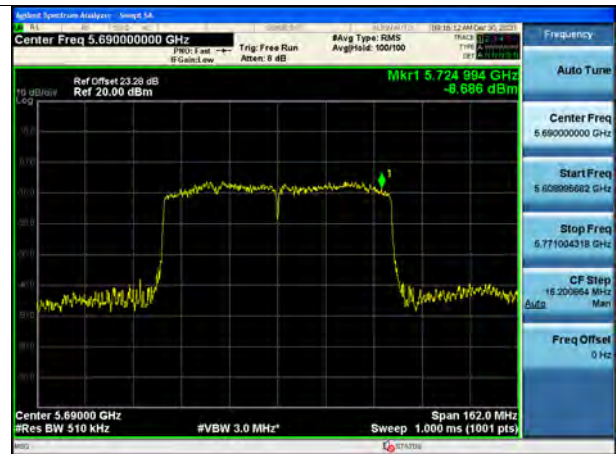
802.11ac(VHT40) UNII 2C Band

802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band

802.11ac(VHT80) UNII 3 Band





▣ Test Plots\_[MIMO\_ANT.A]

802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



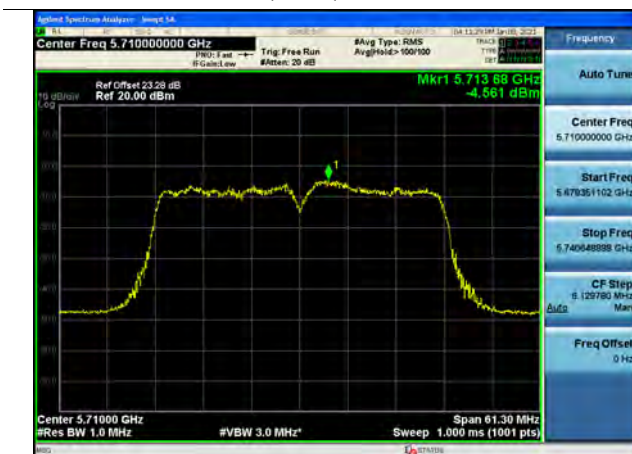
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



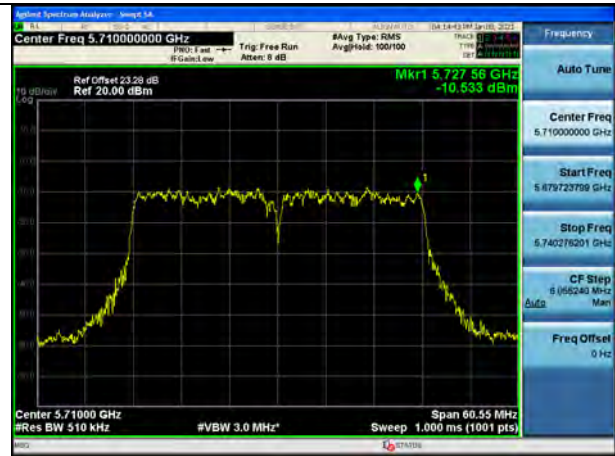
802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band





Test Plots\_[MIMO\_ANT.B]

802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band





### 10.8 RADIATED SPURIOUS EMISSIONS

#### Frequency Range : 9 kHz – 30MHz

| Frequency | Reading | Ant. factor | Cable loss | Ant. POL | Total  | Limit  | Margin |
|-----------|---------|-------------|------------|----------|--------|--------|--------|
| MHz       | dBuV/m  | dBm/m       | dBm        | (H/V)    | dBuV/m | dBuV/m | dB     |

No Critical peaks found

**Note:**

1. The reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
2. Distance extrapolation factor =  $40 \log(\text{specific distance} / \text{test distance})$  (dB)
3. Limit line = specific Limits (dBuV) + Distance extrapolation factor

#### Frequency Range : Below 1 GHz

| Frequency | Reading | Ant. factor | Cable loss | Ant. POL | Total  | Limit  | Margin |
|-----------|---------|-------------|------------|----------|--------|--------|--------|
| MHz       | dBuV/m  | dBm/m       | dBm        | (H/V)    | dBuV/m | dBuV/m | dB     |

No Critical peaks found

**Note:**

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode

**[SISO\_ANT.B]**

Frequency Range : Above 1 GHz

|                     |          |
|---------------------|----------|
| Band :              | UNII 1   |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5180 MHz |
| Channel No.         | 36 Ch    |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 10360     | 53.42   | 9.17            | V        | 62.59    | 68.20    | 5.61   | PK          |
| 15540     | 48.75   | 13.42           | V        | 62.17    | 73.98    | 11.81  | PK          |
| 15540     | 32.78   | 13.42           | V        | 46.20    | 53.98    | 7.78   | AV          |
| 10360     | 52.11   | 9.17            | H        | 61.28    | 68.20    | 6.92   | PK          |
| 15540     | 47.65   | 13.42           | H        | 61.07    | 73.98    | 12.91  | PK          |
| 15540     | 31.99   | 13.42           | H        | 45.41    | 53.98    | 8.57   | AV          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 1   |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5200 MHz |
| Channel No.         | 40 Ch    |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 10400     | 52.36   | 9.57            | V        | 61.93    | 68.20    | 6.27   | PK          |
| 15600     | 47.49   | 13.16           | V        | 60.65    | 73.98    | 13.33  | PK          |
| 15600     | 32.34   | 13.16           | V        | 45.50    | 53.98    | 8.48   | AV          |
| 10400     | 51.16   | 9.57            | H        | 60.73    | 68.20    | 7.47   | PK          |
| 15600     | 46.05   | 13.16           | H        | 59.21    | 73.98    | 14.77  | PK          |
| 15600     | 31.31   | 13.16           | H        | 44.47    | 53.98    | 9.51   | AV          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 1   |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5240 MHz |
| Channel No.         | 48 Ch    |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 10480     | 53.33   | 9.94            | V        | 63.27    | 68.20    | 4.93   | PK          |
| 15720     | 47.84   | 13.28           | V        | 61.12    | 73.98    | 12.86  | PK          |
| 15720     | 31.97   | 13.28           | V        | 45.25    | 53.98    | 8.73   | AV          |
| 10480     | 50.43   | 9.94            | H        | 60.37    | 68.20    | 7.83   | PK          |
| 15720     | 46.93   | 13.28           | H        | 60.21    | 73.98    | 13.77  | PK          |
| 15720     | 30.05   | 13.28           | H        | 43.33    | 53.98    | 10.65  | AV          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 2A  |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5260 MHz |
| Channel No.         | 52 Ch    |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 10520     | 52.74   | 9.96            | V        | 62.70    | 68.20    | 5.50   | PK          |
| 15780     | 46.32   | 13.29           | V        | 59.61    | 73.98    | 14.37  | PK          |
| 15780     | 30.65   | 13.29           | V        | 43.94    | 53.98    | 10.04  | AV          |
| 10520     | 51.98   | 9.96            | H        | 61.94    | 68.20    | 6.26   | PK          |
| 15780     | 45.99   | 13.29           | H        | 59.28    | 73.98    | 14.70  | PK          |
| 15780     | 29.42   | 13.29           | H        | 42.71    | 53.98    | 11.27  | AV          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 2A  |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5300 MHz |
| Channel No.         | 60 Ch    |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 10600     | 52.86   | 10.34           | V        | 63.20    | 73.98    | 10.78  | PK          |
| 10600     | 37.49   | 10.34           | V        | 47.83    | 53.98    | 6.15   | AV          |
| 15900     | 47.05   | 13.19           | V        | 60.24    | 73.98    | 13.74  | PK          |
| 15900     | 31.47   | 13.19           | V        | 44.66    | 53.98    | 9.32   | AV          |
| 10600     | 52.03   | 10.34           | H        | 62.37    | 73.98    | 11.61  | PK          |
| 10600     | 36.19   | 10.34           | H        | 46.53    | 53.98    | 7.45   | AV          |
| 15900     | 46.18   | 13.19           | H        | 59.37    | 73.98    | 14.61  | PK          |
| 15900     | 30.49   | 13.19           | H        | 43.68    | 53.98    | 10.30  | AV          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 2A  |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5320 MHz |
| Channel No.         | 64 Ch    |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 10640     | 53.57   | 10.30           | V        | 63.87    | 73.98    | 10.11  | PK          |
| 10640     | 38.02   | 10.30           | V        | 48.32    | 53.98    | 5.66   | AV          |
| 15960     | 47.54   | 12.29           | V        | 59.83    | 73.98    | 14.15  | PK          |
| 15960     | 31.52   | 12.29           | V        | 43.81    | 53.98    | 10.17  | AV          |
| 10640     | 51.26   | 10.30           | H        | 61.56    | 73.98    | 12.42  | PK          |
| 10640     | 36.05   | 10.30           | H        | 46.35    | 53.98    | 7.63   | AV          |
| 15960     | 46.94   | 12.29           | H        | 59.23    | 73.98    | 14.75  | PK          |
| 15960     | 30.19   | 12.29           | H        | 42.48    | 53.98    | 11.50  | AV          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 2C  |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5500 MHz |
| Channel No.         | 100 Ch   |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 11000     | 51.13   | 11.12           | V        | 62.25    | 73.98    | 11.73  | PK          |
| 11000     | 35.78   | 11.12           | V        | 46.90    | 53.98    | 7.08   | AV          |
| 16500     | 49.28   | 12.50           | V        | 61.78    | 68.20    | 6.42   | PK          |
| 11000     | 49.41   | 11.12           | H        | 60.53    | 73.98    | 13.45  | PK          |
| 11000     | 34.64   | 11.12           | H        | 45.76    | 53.98    | 8.22   | AV          |
| 16500     | 47.38   | 12.50           | H        | 59.88    | 68.20    | 8.32   | PK          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 2C  |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5580 MHz |
| Channel No.         | 116 Ch   |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 11160     | 49.03   | 11.13           | V        | 60.16    | 73.98    | 13.82  | PK          |
| 11160     | 35.69   | 11.13           | V        | 46.82    | 53.98    | 7.16   | AV          |
| 16740     | 49.84   | 13.55           | V        | 63.39    | 68.20    | 4.81   | PK          |
| 11160     | 46.46   | 11.13           | H        | 57.59    | 73.98    | 16.39  | PK          |
| 11160     | 35.06   | 11.13           | H        | 46.19    | 53.98    | 7.79   | AV          |
| 16740     | 48.37   | 13.55           | H        | 61.92    | 68.20    | 6.28   | PK          |

|                     |                 |
|---------------------|-----------------|
| Band :              | <u>UNII 2C</u>  |
| Operation Mode:     | <u>802.11 a</u> |
| Transfer Rate:      | <u>6 Mbps</u>   |
| Operating Frequency | <u>5720 MHz</u> |
| Channel No.         | <u>144 Ch</u>   |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 11440     | 45.11   | 11.26           | V        | 56.37    | 73.98    | 17.61  | PK          |
| 11440     | 31.65   | 11.26           | V        | 42.91    | 53.98    | 11.07  | AV          |
| 17160     | 50.47   | 14.70           | V        | 65.17    | 68.20    | 3.03   | PK          |
| 11440     | 43.04   | 11.26           | H        | 54.30    | 73.98    | 19.68  | PK          |
| 11440     | 30.06   | 11.26           | H        | 41.32    | 53.98    | 12.66  | AV          |
| 17160     | 49.16   | 14.70           | H        | 63.86    | 68.20    | 4.34   | PK          |

|                     |                 |
|---------------------|-----------------|
| Band :              | <u>UNII 3</u>   |
| Operation Mode:     | <u>802.11 a</u> |
| Transfer Rate:      | <u>6 Mbps</u>   |
| Operating Frequency | <u>5745MHz</u>  |
| Channel No.         | <u>149 Ch</u>   |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 11490     | 45.68   | 11.54           | V        | 57.22    | 73.98    | 16.76  | PK          |
| 11490     | 31.83   | 11.54           | V        | 43.37    | 53.98    | 10.61  | AV          |
| 17235     | 49.45   | 15.28           | V        | 64.73    | 68.20    | 3.47   | PK          |
| 11490     | 44.71   | 11.54           | H        | 56.25    | 73.98    | 17.73  | PK          |
| 11490     | 30.76   | 11.54           | H        | 42.30    | 53.98    | 11.68  | AV          |
| 17235     | 47.16   | 15.28           | H        | 62.44    | 68.20    | 5.76   | PK          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 3   |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5785 MHz |
| Channel No.         | 157 Ch   |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 11570     | 46.78   | 10.94           | V        | 57.72    | 73.98    | 16.26  | PK          |
| 11570     | 33.44   | 10.94           | V        | 44.38    | 53.98    | 9.60   | AV          |
| 17355     | 49.06   | 15.94           | V        | 65.00    | 68.20    | 3.20   | PK          |
| 11570     | 45.19   | 10.94           | H        | 56.13    | 73.98    | 17.85  | PK          |
| 11570     | 31.19   | 10.94           | H        | 42.13    | 53.98    | 11.85  | AV          |
| 17355     | 48.94   | 15.94           | H        | 64.88    | 68.20    | 3.32   | PK          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 3   |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5825 MHz |
| Channel No.         | 165 Ch   |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 11650     | 45.86   | 10.39           | V        | 56.25    | 73.98    | 17.73  | PK          |
| 11650     | 32.89   | 10.39           | V        | 43.28    | 53.98    | 10.70  | AV          |
| 17475     | 47.70   | 17.24           | V        | 64.94    | 68.20    | 3.26   | PK          |
| 11650     | 44.99   | 10.39           | H        | 55.38    | 73.98    | 18.60  | PK          |
| 11650     | 30.73   | 10.39           | H        | 41.12    | 53.98    | 12.86  | AV          |
| 17475     | 46.78   | 17.24           | H        | 64.02    | 68.20    | 4.18   | PK          |

**Note:**

All Modes of operation were investigated and the worst case configuration results are reported.

[Worst case]

- Mode : SISO (Antenna Selection)
- Worstcase : SISO Ant B (External): UNII 1, 2A, 2C, 3 : 802.11a

**[MIMO]**

|                     |               |
|---------------------|---------------|
| Band :              | UNII 2C       |
| Operation Mode:     | 802.11 n_HT20 |
| Transfer MCS Index: | 0             |
| Operating Frequency | 5580 MHz      |
| Channel No.         | 116 Ch        |

| Frequency | Reading | A.F+C.L-A.G+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|-----------------|----------|----------|----------|--------|-------------|
| [MHz]     | [dBuV]  | [dB]            | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 11160     | 46.72   | 11.13           | V        | 57.85    | 73.98    | 16.13  | PK          |
| 11160     | 34.43   | 11.13           | V        | 45.56    | 53.98    | 8.42   | AV          |
| 16740     | 42.69   | 13.55           | V        | 56.24    | 68.20    | 11.96  | PK          |
| 11160     | 46.23   | 11.13           | H        | 57.36    | 73.98    | 16.62  | PK          |
| 11160     | 32.74   | 11.13           | H        | 43.87    | 53.98    | 10.11  | AV          |
| 16740     | 42.26   | 13.55           | H        | 55.81    | 68.20    | 12.39  | PK          |

**Note:**

All Modes of operation were investigated and the worst case configuration results are reported.

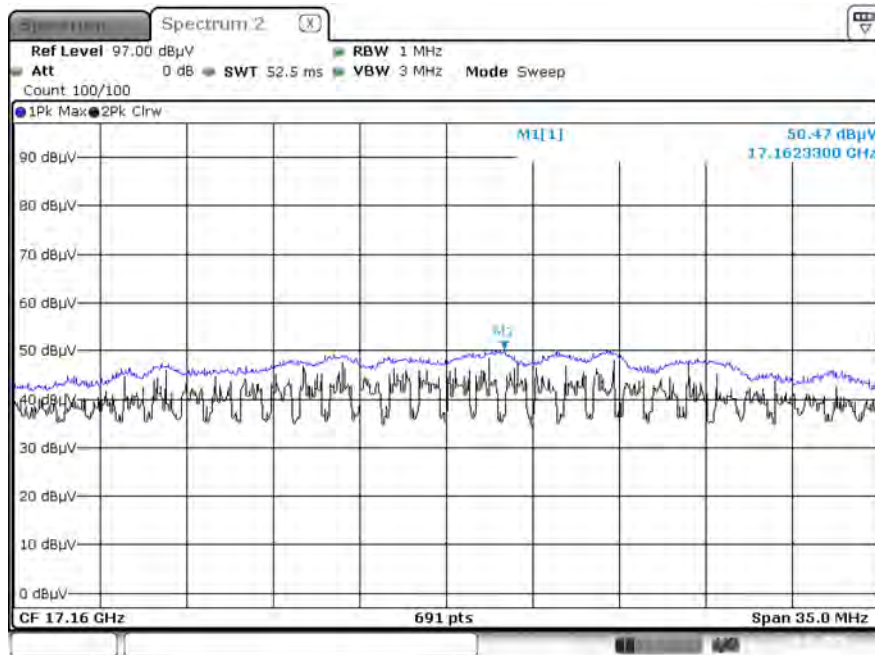
[Worst case]

- Mode : Ant A + Ant B(MIMO(SDM))
- Worstcase : UNII 1, 2A, 2C, 3 : 802.11n(HT20),(116 ch)



▣ Test Plots[SISO]

Peak Reading (802.11a, Ch.144 3rd Harmonic, Z-V)

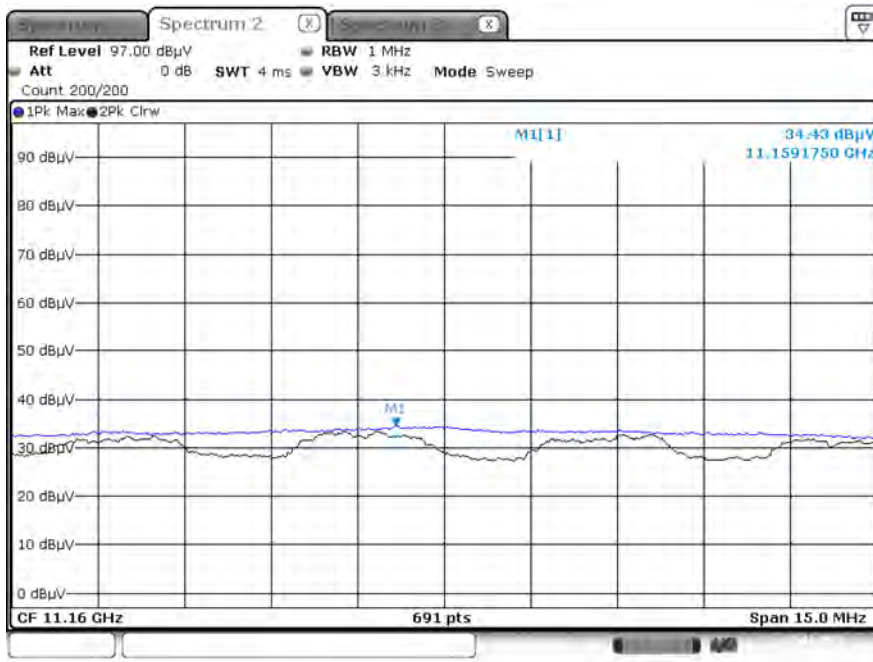


**Note:**

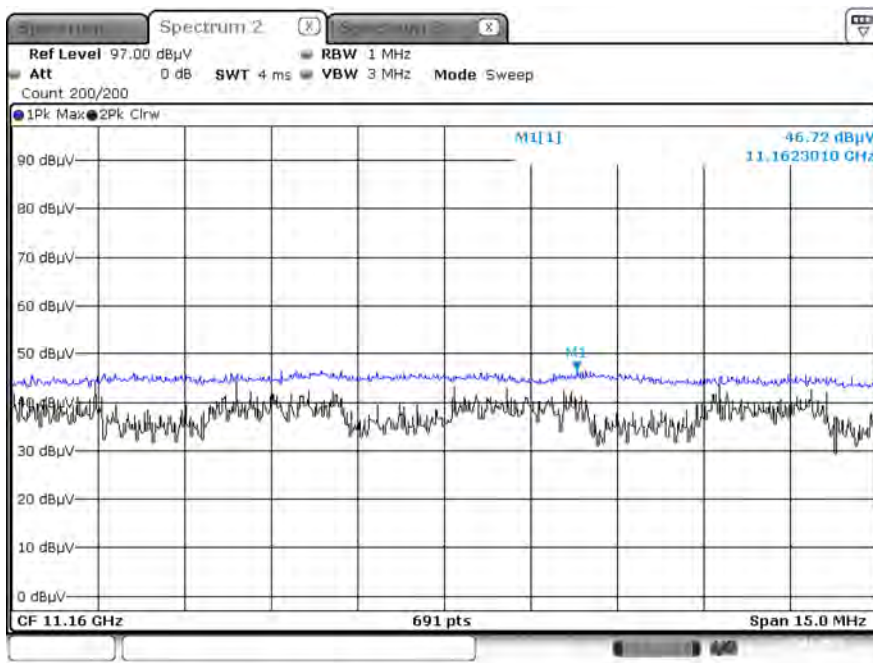
Only the worst case plots for Radiated Spurious Emissions.

**▣ Test Plots[MIMO]**

Average Reading (802.11n(HT20), Ch.116 2nd Harmonic, X-V)



Peak Reading (802.11n(HT20), Ch.116 2nd Harmonic, X-V)

**Note:**

Only the worst case plots for Radiated Spurious Emissions.

### 10.9 RADIATED RESTRICTED BAND EDGE

#### [SISO\_ANT.B]

|                     |          |
|---------------------|----------|
| Band :              | UNII 1   |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5180 MHz |
| Channel No.         | 36 Ch    |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5150      | 53.22   | 8.02                | H        | 61.24    | 73.98    | 12.74  | PK          |
| 5150      | 36.76   | 8.02                | H        | 44.78    | 53.98    | 9.20   | AV          |
| 5150      | 52.32   | 8.02                | V        | 60.34    | 73.98    | 13.64  | PK          |
| 5150      | 35.48   | 8.02                | V        | 43.5     | 53.98    | 10.48  | AV          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 2A  |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5320 MHz |
| Channel No.         | 64 Ch    |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5350      | 57.77   | 7.87                | H        | 65.64    | 73.98    | 8.34   | PK          |
| 5350      | 36.00   | 7.87                | H        | 43.87    | 53.98    | 10.11  | AV          |
| 5350      | 55.23   | 7.87                | V        | 63.1     | 73.98    | 10.88  | PK          |
| 5350      | 34.97   | 7.87                | V        | 42.84    | 53.98    | 11.14  | AV          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 2C  |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5500 MHz |
| Channel No.         | 100 Ch   |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 51.00   | 8.35                | H        | 59.35    | 73.98    | 14.63  | PK          |
| 5460      | 32.86   | 8.35                | H        | 41.21    | 53.98    | 12.77  | AV          |
| 5470      | 56.38   | 8.31                | H        | 64.69    | 68.20    | 3.51   | PK          |
| 5460      | 49.25   | 8.35                | V        | 57.6     | 73.98    | 16.38  | PK          |
| 5460      | 32.37   | 8.31                | V        | 40.68    | 53.98    | 13.30  | AV          |
| 5470      | 55.11   | 8.31                | V        | 63.42    | 68.20    | 4.78   | PK          |

|                     |          |
|---------------------|----------|
| Band :              | UNII 2C  |
| Operation Mode:     | 802.11 a |
| Transfer Rate:      | 6 Mbps   |
| Operating Frequency | 5520 MHz |
| Channel No.         | 104 Ch   |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 47.42   | 8.35                | H        | 55.77    | 73.98    | 18.21  | PK          |
| 5460      | 31.90   | 8.35                | H        | 40.25    | 53.98    | 13.73  | AV          |
| 5470      | 48.74   | 8.31                | H        | 57.05    | 68.20    | 11.15  | PK          |
| 5460      | 46.82   | 8.35                | V        | 55.17    | 73.98    | 18.81  | PK          |
| 5460      | 31.75   | 8.31                | V        | 40.06    | 53.98    | 13.92  | AV          |
| 5470      | 48.07   | 8.31                | V        | 56.38    | 68.20    | 11.82  | PK          |

|                     |               |
|---------------------|---------------|
| Band :              | UNII 1        |
| Operation Mode:     | 802.11 n_HT20 |
| Transfer MCS Index: | 0             |
| Operating Frequency | 5180 MHz      |
| Channel No.         | 36 Ch         |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5150      | 53.25   | 8.02                | H        | 61.27    | 73.98    | 12.71  | PK          |
| 5150      | 38.16   | 8.02                | H        | 46.18    | 53.98    | 7.80   | AV          |
| 5150      | 54.26   | 8.02                | V        | 62.28    | 73.98    | 11.70  | PK          |
| 5150      | 36.85   | 8.02                | V        | 44.87    | 53.98    | 9.11   | AV          |

|                     |               |
|---------------------|---------------|
| Band :              | UNII 2A       |
| Operation Mode:     | 802.11 n_HT20 |
| Transfer MCS Index: | 0             |
| Operating Frequency | 5320 MHz      |
| Channel No.         | 64 Ch         |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5350      | 56.25   | 7.87                | H        | 64.12    | 73.98    | 9.86   | PK          |
| 5350      | 37.52   | 7.87                | H        | 45.39    | 53.98    | 8.59   | AV          |
| 5350      | 55.67   | 7.87                | V        | 63.54    | 73.98    | 10.44  | PK          |
| 5350      | 36.47   | 7.87                | V        | 44.34    | 53.98    | 9.64   | AV          |

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5500 MHz  
 Channel No. 100 Ch

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 48.86   | 8.35                | H        | 57.21    | 73.98    | 16.77  | PK          |
| 5460      | 32.74   | 8.35                | H        | 41.09    | 53.98    | 12.89  | AV          |
| 5470      | 53.18   | 8.31                | H        | 61.49    | 68.20    | 6.71   | PK          |
| 5460      | 48.33   | 8.35                | V        | 56.68    | 73.98    | 17.30  | PK          |
| 5460      | 32.16   | 8.31                | V        | 40.47    | 53.98    | 13.51  | AV          |
| 5470      | 52.93   | 8.31                | V        | 61.24    | 68.20    | 6.96   | PK          |

Band : UNII 2C  
 Operation Mode: 802.11 n\_HT20  
 Transfer MCS Index: 0  
 Operating Frequency 5520 MHz  
 Channel No. 104 Ch

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 45.71   | 8.35                | H        | 54.06    | 73.98    | 19.92  | PK          |
| 5460      | 32.09   | 8.35                | H        | 40.44    | 53.98    | 13.54  | AV          |
| 5470      | 50.45   | 8.31                | H        | 58.76    | 68.20    | 9.44   | PK          |
| 5460      | 45.15   | 8.35                | V        | 53.5     | 73.98    | 20.48  | PK          |
| 5460      | 31.98   | 8.31                | V        | 40.29    | 53.98    | 13.69  | AV          |
| 5470      | 49.69   | 8.31                | V        | 58       | 68.20    | 10.20  | PK          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 1          |
| Operation Mode:     | 802.11 ac_VHT20 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5180 MHz        |
| Channel No.         | 36 Ch           |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5150      | 56.40   | 8.02                | H        | 64.42    | 73.98    | 9.56   | PK          |
| 5150      | 37.82   | 8.02                | H        | 45.84    | 53.98    | 8.14   | AV          |
| 5150      | 54.12   | 8.02                | V        | 62.14    | 73.98    | 11.84  | PK          |
| 5150      | 36.45   | 8.02                | V        | 44.47    | 53.98    | 9.51   | AV          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2A         |
| Operation Mode:     | 802.11 ac_VHT20 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5320 MHz        |
| Channel No.         | 64 Ch           |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5350      | 55.77   | 7.87                | H        | 63.64    | 73.98    | 10.34  | PK          |
| 5350      | 37.47   | 7.87                | H        | 45.34    | 53.98    | 8.64   | AV          |
| 5350      | 54.64   | 7.87                | V        | 62.51    | 73.98    | 11.47  | PK          |
| 5350      | 36.44   | 7.87                | V        | 44.31    | 53.98    | 9.67   | AV          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2C         |
| Operation Mode:     | 802.11 ac_VHT20 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5500 MHz        |
| Channel No.         | 100 Ch          |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 50.79   | 8.35                | H        | 59.14    | 73.98    | 14.84  | PK          |
| 5460      | 32.71   | 8.35                | H        | 41.06    | 53.98    | 12.92  | AV          |
| 5470      | 54.46   | 8.31                | H        | 62.77    | 68.20    | 5.43   | PK          |
| 5460      | 49.12   | 8.35                | V        | 57.47    | 73.98    | 16.51  | PK          |
| 5460      | 32.31   | 8.31                | V        | 40.62    | 53.98    | 13.36  | AV          |
| 5470      | 53.16   | 8.31                | V        | 61.47    | 68.20    | 6.73   | PK          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2C         |
| Operation Mode:     | 802.11 ac_VHT20 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5520 MHz        |
| Channel No.         | 104 Ch          |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 48.24   | 8.35                | H        | 56.59    | 73.98    | 17.39  | PK          |
| 5460      | 35.05   | 8.35                | H        | 43.4     | 53.98    | 10.58  | AV          |
| 5470      | 48.64   | 8.31                | H        | 56.95    | 68.20    | 11.25  | PK          |
| 5460      | 47.95   | 8.35                | V        | 56.3     | 73.98    | 17.68  | PK          |
| 5460      | 34.90   | 8.31                | V        | 43.21    | 53.98    | 10.77  | AV          |
| 5470      | 48.04   | 8.31                | V        | 56.35    | 68.20    | 11.85  | PK          |



|                     |               |
|---------------------|---------------|
| Band :              | UNII 1        |
| Operation Mode:     | 802.11 n_HT40 |
| Transfer MCS Index: | 0             |
| Operating Frequency | 5190 MHz      |
| Channel No.         | 38 Ch         |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5150      | 59.57   | 8.02                | H        | 67.59    | 73.98    | 6.39   | PK          |
| 5150      | 41.60   | 8.02                | H        | 49.62    | 53.98    | 4.36   | AV          |
| 5150      | 58.55   | 8.02                | V        | 66.57    | 73.98    | 7.41   | PK          |
| 5150      | 40.57   | 8.02                | V        | 48.59    | 53.98    | 5.39   | AV          |

|                     |               |
|---------------------|---------------|
| Band :              | UNII 1        |
| Operation Mode:     | 802.11 n_HT40 |
| Transfer MCS Index: | 0             |
| Operating Frequency | 5230 MHz      |
| Channel No.         | 46 Ch         |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5150      | 49.21   | 8.02                | H        | 57.23    | 73.98    | 16.75  | PK          |
| 5150      | 32.87   | 8.02                | H        | 40.89    | 53.98    | 13.09  | AV          |
| 5150      | 46.95   | 8.02                | V        | 54.97    | 73.98    | 19.01  | PK          |
| 5150      | 31.92   | 8.02                | V        | 39.94    | 53.98    | 14.04  | AV          |

Band : UNII 2A  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5270 MHz  
 Channel No. 54 Ch

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5350      | 47.73   | 7.87                | H        | 55.60    | 73.98    | 18.38  | PK          |
| 5350      | 33.28   | 7.87                | H        | 41.15    | 53.98    | 12.83  | AV          |
| 5350      | 46.48   | 7.87                | V        | 54.35    | 73.98    | 19.63  | PK          |
| 5350      | 32.39   | 7.87                | V        | 40.26    | 53.98    | 13.72  | AV          |

Band : UNII 2A  
 Operation Mode: 802.11 n\_HT40  
 Transfer MCS Index: 0  
 Operating Frequency 5310 MHz  
 Channel No. 62 Ch

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5350      | 60.82   | 7.87                | H        | 68.69    | 73.98    | 5.29   | PK          |
| 5350      | 42.10   | 7.87                | H        | 49.97    | 53.98    | 4.01   | AV          |
| 5350      | 59.09   | 7.87                | V        | 66.96    | 73.98    | 7.02   | PK          |
| 5350      | 40.48   | 7.87                | V        | 48.35    | 53.98    | 5.63   | AV          |

|                     |               |
|---------------------|---------------|
| Band :              | UNII 2C       |
| Operation Mode:     | 802.11 n_HT40 |
| Transfer MCS Index: | 0             |
| Operating Frequency | 5510 MHz      |
| Channel No.         | 102 Ch        |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 51.18   | 8.35                | H        | 59.53    | 73.98    | 14.45  | PK          |
| 5460      | 35.34   | 8.35                | H        | 43.69    | 53.98    | 10.29  | AV          |
| 5470      | 55.87   | 8.31                | H        | 64.18    | 68.20    | 4.02   | PK          |
| 5460      | 50.43   | 8.35                | V        | 58.78    | 73.98    | 15.20  | PK          |
| 5460      | 34.55   | 8.31                | V        | 42.86    | 53.98    | 11.12  | AV          |
| 5470      | 54.92   | 8.31                | V        | 63.23    | 68.20    | 4.97   | PK          |

|                     |               |
|---------------------|---------------|
| Band :              | UNII 2C       |
| Operation Mode:     | 802.11 n_HT40 |
| Transfer MCS Index: | 0             |
| Operating Frequency | 5550 MHz      |
| Channel No.         | 110 Ch        |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 55.21   | 8.35                | H        | 63.56    | 73.98    | 10.42  | PK          |
| 5460      | 34.01   | 8.35                | H        | 42.36    | 53.98    | 11.62  | AV          |
| 5470      | 56.29   | 8.31                | H        | 64.6     | 68.20    | 3.60   | PK          |
| 5460      | 54.71   | 8.35                | V        | 63.06    | 73.98    | 10.92  | PK          |
| 5460      | 33.19   | 8.31                | V        | 41.5     | 53.98    | 12.48  | AV          |
| 5470      | 55.45   | 8.31                | V        | 63.76    | 68.20    | 4.44   | PK          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 1          |
| Operation Mode:     | 802.11 ac_VHT40 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5190 MHz        |
| Channel No.         | 38 Ch           |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5150      | 56.30   | 8.02                | H        | 64.32    | 73.98    | 9.66   | PK          |
| 5150      | 40.03   | 8.02                | H        | 48.05    | 53.98    | 5.93   | AV          |
| 5150      | 54.99   | 8.02                | V        | 63.01    | 73.98    | 10.97  | PK          |
| 5150      | 39.62   | 8.02                | V        | 47.64    | 53.98    | 6.34   | AV          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 1          |
| Operation Mode:     | 802.11 ac_VHT40 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5230 MHz        |
| Channel No.         | 46 Ch           |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5150      | 45.48   | 8.02                | H        | 53.50    | 73.98    | 20.48  | PK          |
| 5150      | 32.98   | 8.02                | H        | 41       | 53.98    | 12.98  | AV          |
| 5150      | 44.54   | 8.02                | V        | 52.56    | 73.98    | 21.42  | PK          |
| 5150      | 32.02   | 8.02                | V        | 40.04    | 53.98    | 13.94  | AV          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2A         |
| Operation Mode:     | 802.11 ac_VHT40 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5270 MHz        |
| Channel No.         | 54 Ch           |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5350      | 45.28   | 7.87                | H        | 53.15    | 73.98    | 20.83  | PK          |
| 5350      | 33.78   | 7.87                | H        | 41.65    | 53.98    | 12.33  | AV          |
| 5350      | 44.96   | 7.87                | V        | 52.83    | 73.98    | 21.15  | PK          |
| 5350      | 33.62   | 7.87                | V        | 41.49    | 53.98    | 12.49  | AV          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2A         |
| Operation Mode:     | 802.11 ac_VHT40 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5310 MHz        |
| Channel No.         | 62 Ch           |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5350      | 61.12   | 7.87                | H        | 68.99    | 73.98    | 4.99   | PK          |
| 5350      | 42.09   | 7.87                | H        | 49.96    | 53.98    | 4.02   | AV          |
| 5350      | 59.99   | 7.87                | V        | 67.86    | 73.98    | 6.12   | PK          |
| 5350      | 41.77   | 7.87                | V        | 49.64    | 53.98    | 4.34   | AV          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2C         |
| Operation Mode:     | 802.11 ac_VHT40 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5510 MHz        |
| Channel No.         | 102 Ch          |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 51.22   | 8.35                | H        | 59.57    | 73.98    | 14.41  | PK          |
| 5460      | 36.28   | 8.35                | H        | 44.63    | 53.98    | 9.35   | AV          |
| 5470      | 55.29   | 8.31                | H        | 63.6     | 68.20    | 4.60   | PK          |
| 5460      | 50.18   | 8.35                | V        | 58.53    | 73.98    | 15.45  | PK          |
| 5460      | 35.50   | 8.31                | V        | 43.81    | 53.98    | 10.17  | AV          |
| 5470      | 54.73   | 8.31                | V        | 63.04    | 68.20    | 5.16   | PK          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2C         |
| Operation Mode:     | 802.11 ac_VHT40 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5550 MHz        |
| Channel No.         | 110 Ch          |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 53.72   | 8.35                | H        | 62.07    | 73.98    | 11.91  | PK          |
| 5460      | 33.83   | 8.35                | H        | 42.18    | 53.98    | 11.80  | AV          |
| 5470      | 53.63   | 8.31                | H        | 61.94    | 68.20    | 6.26   | PK          |
| 5460      | 52.90   | 8.35                | V        | 61.25    | 73.98    | 12.73  | PK          |
| 5460      | 33.67   | 8.31                | V        | 41.98    | 53.98    | 12.00  | AV          |
| 5470      | 52.87   | 8.31                | V        | 61.18    | 68.20    | 7.02   | PK          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 1          |
| Operation Mode:     | 802.11 ac_VHT80 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5210 MHz        |
| Channel No.         | 42 Ch           |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5150      | 53.48   | 8.02                | H        | 61.50    | 73.98    | 12.48  | PK          |
| 5150      | 42.95   | 8.02                | H        | 50.97    | 53.98    | 3.01   | AV          |
| 5150      | 52.99   | 8.02                | V        | 61.01    | 73.98    | 12.97  | PK          |
| 5150      | 41.89   | 8.02                | V        | 49.91    | 53.98    | 4.07   | AV          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2A         |
| Operation Mode:     | 802.11 ac_VHT80 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5290 MHz        |
| Channel No.         | 58 Ch           |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5350      | 59.61   | 7.87                | H        | 67.48    | 73.98    | 6.50   | PK          |
| 5350      | 42.38   | 7.87                | H        | 50.25    | 53.98    | 3.73   | AV          |
| 5350      | 58.99   | 7.87                | V        | 66.86    | 73.98    | 7.12   | PK          |
| 5350      | 41.85   | 7.87                | V        | 49.72    | 53.98    | 4.26   | AV          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2C         |
| Operation Mode:     | 802.11 ac_VHT80 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5530 MHz        |
| Channel No.         | 106 Ch          |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 55.05   | 8.35                | H        | 63.40    | 73.98    | 10.58  | PK          |
| 5460      | 39.49   | 8.35                | H        | 47.84    | 53.98    | 6.14   | AV          |
| 5470      | 56.47   | 8.31                | H        | 64.78    | 68.20    | 3.42   | PK          |
| 5460      | 54.88   | 8.35                | V        | 63.23    | 73.98    | 10.75  | PK          |
| 5460      | 38.31   | 8.31                | V        | 46.62    | 53.98    | 7.36   | AV          |
| 5470      | 55.99   | 8.31                | V        | 64.3     | 68.20    | 3.90   | PK          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2C         |
| Operation Mode:     | 802.11 ac_VHT80 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5610 MHz        |
| Channel No.         | 122 Ch          |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 53.62   | 8.35                | H        | 61.97    | 73.98    | 12.01  | PK          |
| 5460      | 36.00   | 8.35                | H        | 44.35    | 53.98    | 9.63   | AV          |
| 5470      | 56.22   | 8.31                | H        | 64.53    | 68.20    | 3.67   | PK          |
| 5460      | 52.67   | 8.35                | V        | 61.02    | 73.98    | 12.96  | PK          |
| 5460      | 35.19   | 8.31                | V        | 43.5     | 53.98    | 10.48  | AV          |
| 5470      | 55.33   | 8.31                | V        | 63.64    | 68.20    | 4.56   | PK          |

**Note:**

All Modes of operation were investigated and the worst case configuration results are reported.

[Worst case]

- Mode : SISO (Antenna Selection)
- Worstcase : SISO Ant B (External)



**[MIMO]**

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 1          |
| Operation Mode:     | 802.11 ac_VHT80 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5210 MHz        |
| Channel No.         | 42 Ch           |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5150      | 45.84   | 8.02                | H        | 53.86    | 73.98    | 20.12  | PK          |
| 5150      | 36.50   | 8.02                | H        | 44.52    | 53.98    | 9.46   | AV          |
| 5150      | 45.58   | 8.02                | V        | 53.6     | 73.98    | 20.38  | PK          |
| 5150      | 36.41   | 8.02                | V        | 44.43    | 53.98    | 9.55   | AV          |

|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2C         |
| Operation Mode:     | 802.11 ac_VHT80 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5530 MHz        |
| Channel No.         | 106 Ch          |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5460      | 44.77   | 8.35                | H        | 53.12    | 73.98    | 20.86  | PK          |
| 5460      | 34.21   | 8.35                | H        | 42.56    | 53.98    | 11.42  | AV          |
| 5470      | 47.53   | 8.31                | H        | 55.84    | 68.20    | 12.36  | PK          |
| 5460      | 44.65   | 8.35                | V        | 53       | 73.98    | 20.98  | PK          |
| 5460      | 33.88   | 8.31                | V        | 42.19    | 53.98    | 11.79  | AV          |
| 5470      | 46.06   | 8.31                | V        | 54.37    | 68.20    | 13.83  | PK          |

**Note:**

All Modes of operation were investigated and the worst case configuration results are reported.

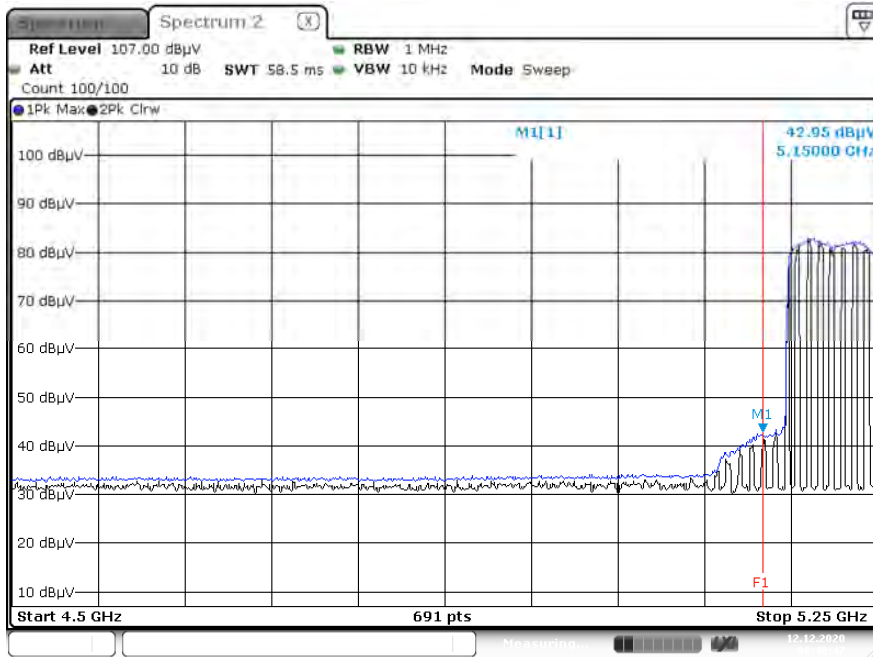
[Worst case]

- Mode : Ant A + Ant B(MIMO(SDM))
- Worstcase : UNII 1, 2A, 2C : 802.11ac(VHT80),(42 ch, 106 ch)

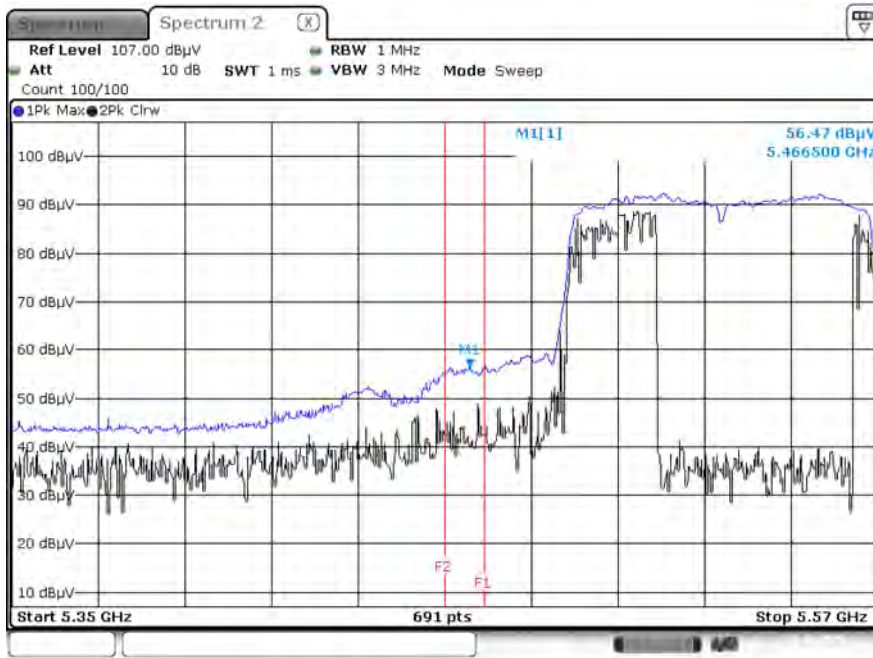
▣ Test Plots(UNII 1, 2A, 2C)(X-H)

[SISO\_ANT.B]

Average Reading (802.11ac(VHT80), Ch.42)



Peak Reading (802.11ac(VHT80), Ch.106)

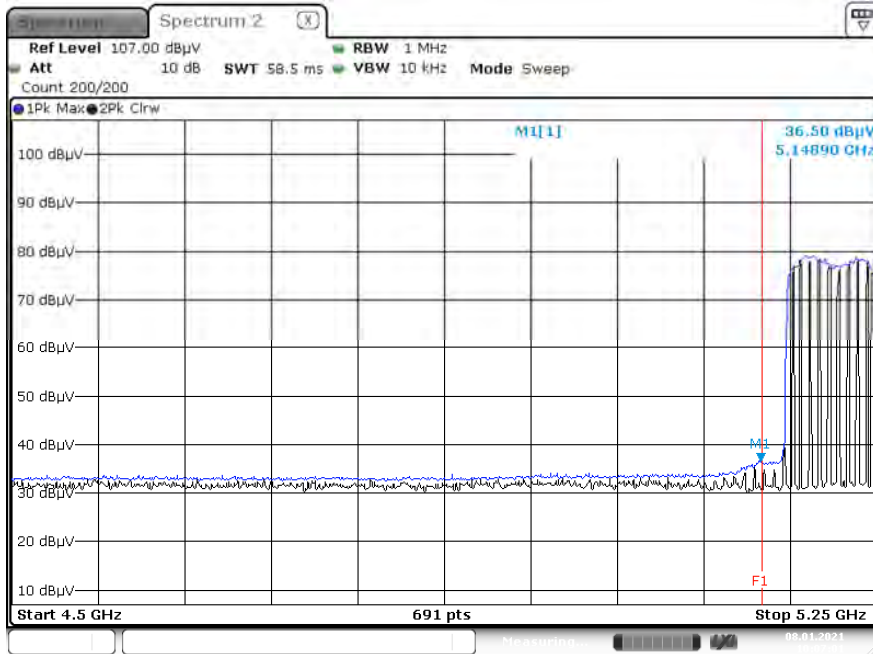


**Note:**

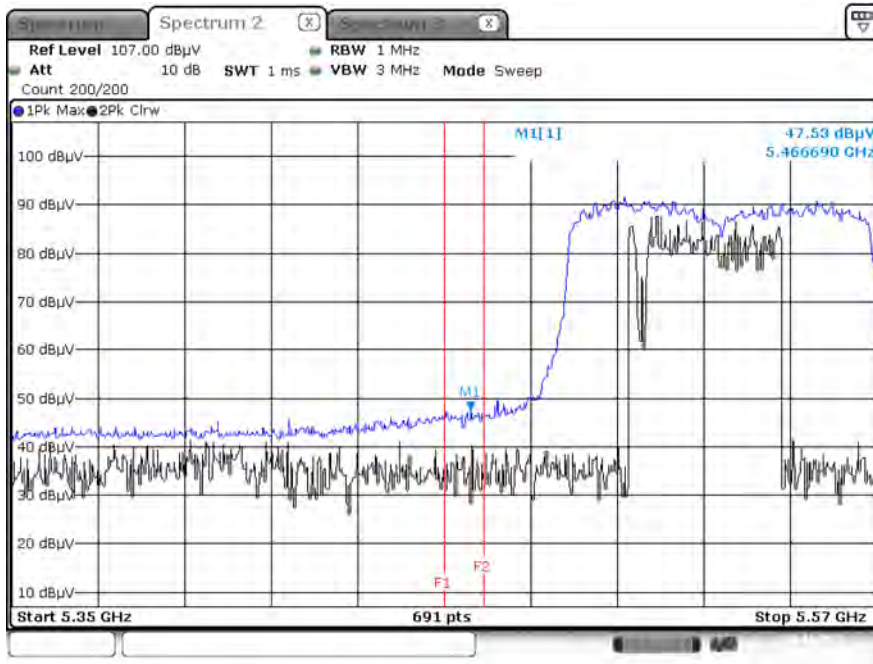
Only the worst case plots for Radiated Restricted Band Edge.

[MIMO]

Average Reading (802.11ac(VHT80), Ch.42)



Peak Reading (802.11ac(VHT80), Ch.106)



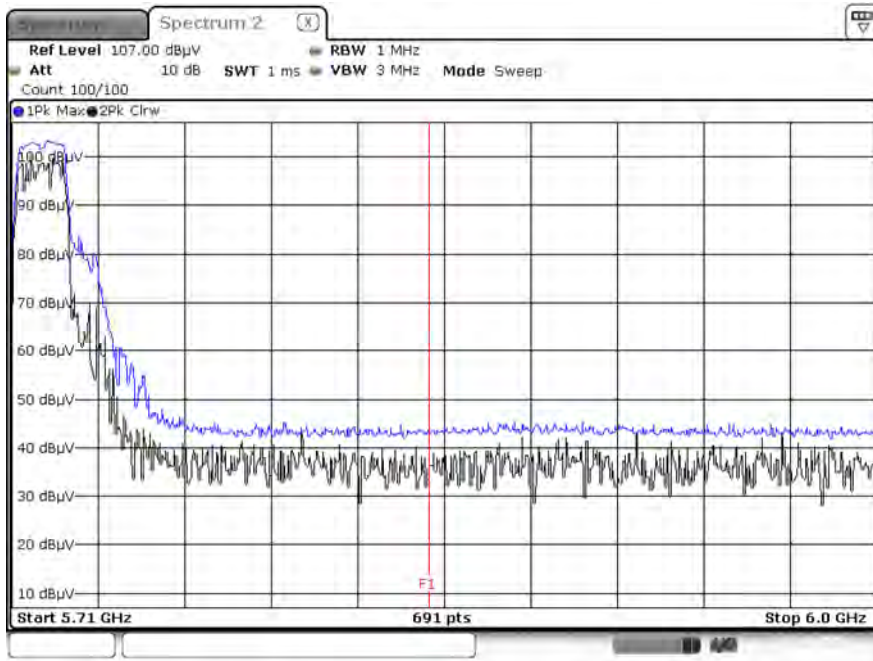
**Note:**

Only the worst case plots for Radiated Restricted Band Edge.

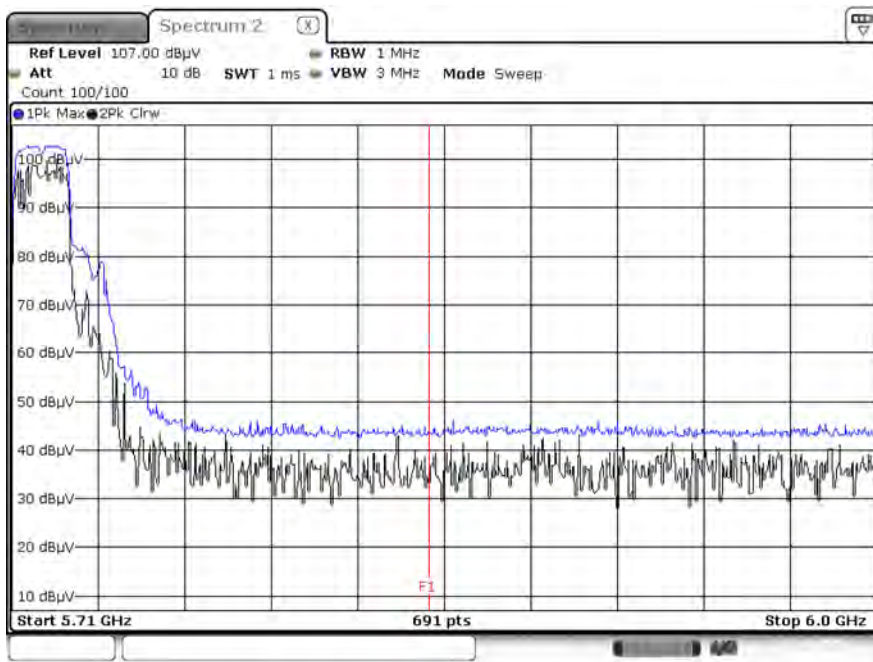
▣ Test Plots(Straddle Channel)

[SISO\_ANT.B]

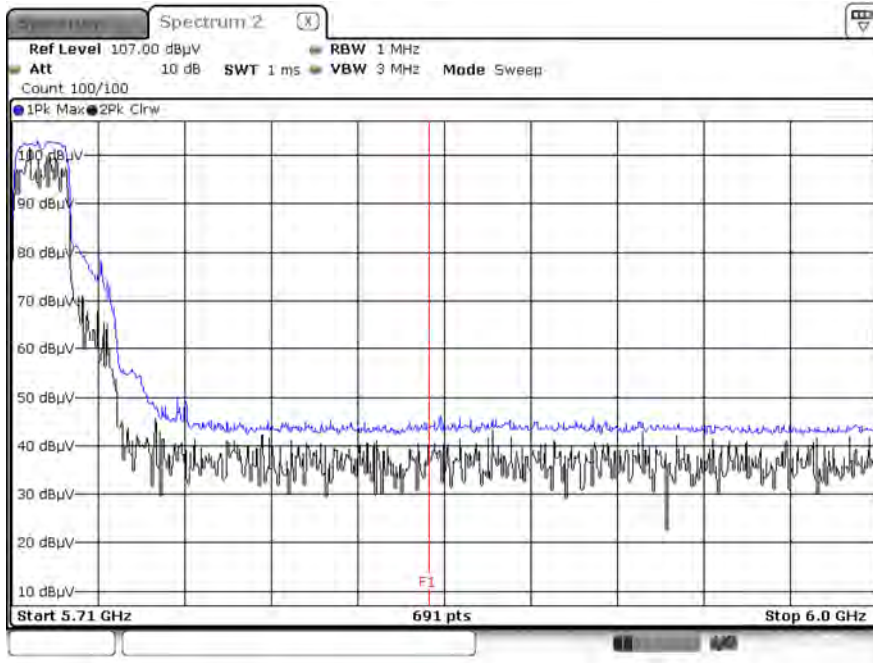
Peak Reading (802.11a, Ch.144, X-H)



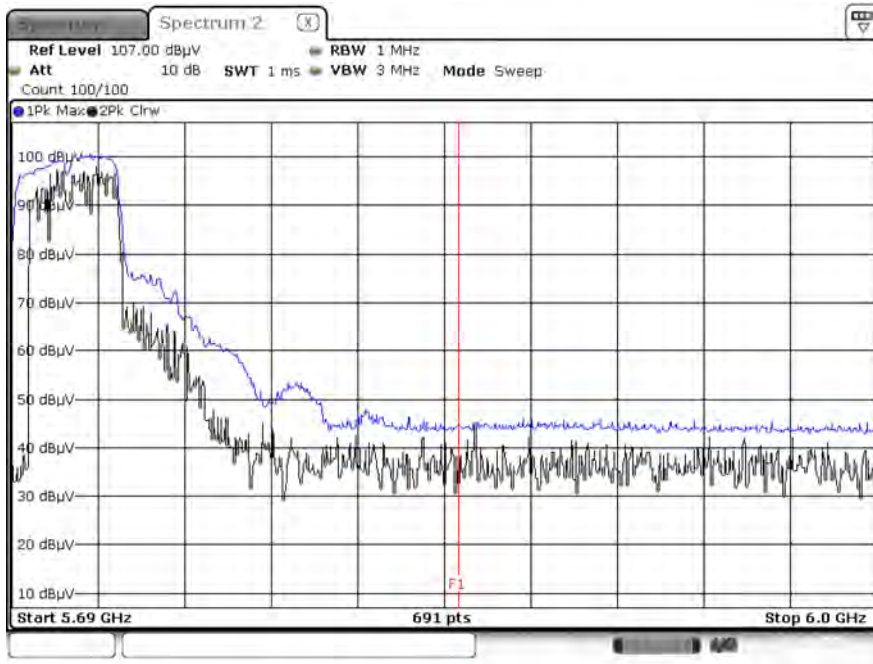
Peak Reading (802.11n\_HT20, Ch.144, X-H)



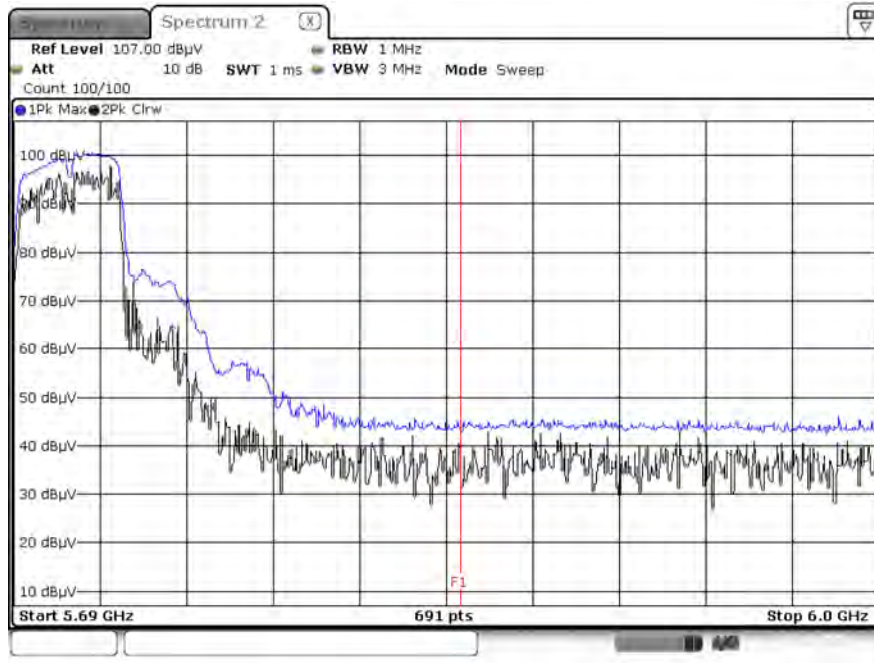
Peak Reading (802.11ac\_VHT20, Ch.144, X-H)



Peak Reading (802.11n\_HT40, Ch.142, X-H)



### Peak Reading (802.11ac\_VHT40, Ch.142, X-H)



#### Note :

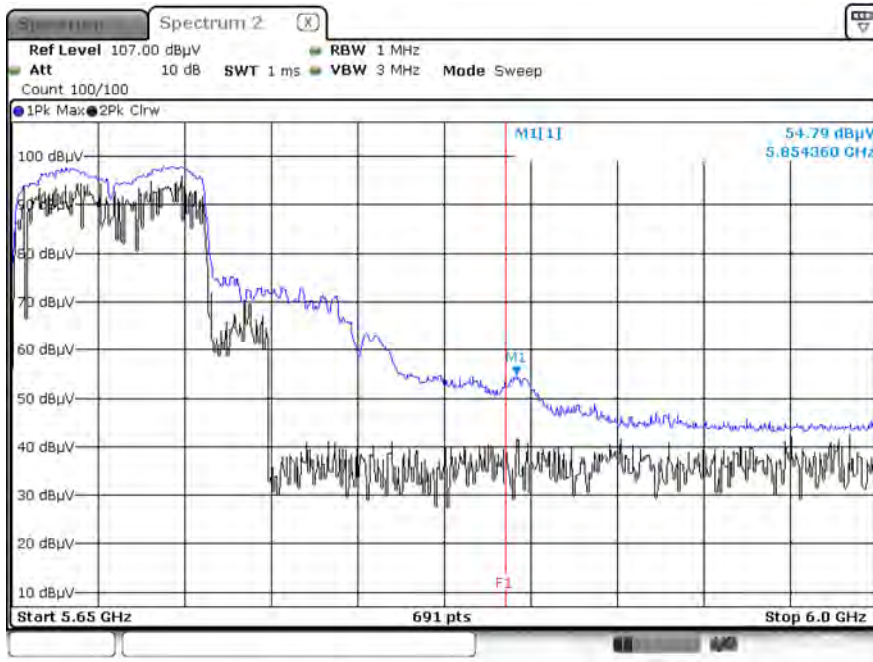
1. Only the worst case plots for Radiated Restricted Band Edge.
2. Red line : 5 850 MHz
3. Ambient Noise (Because of ambient noise, We attached only the worst plot without a data table)



|                     |                 |
|---------------------|-----------------|
| Band :              | UNII 2C         |
| Operation Mode:     | 802.11 ac_VHT80 |
| Transfer MCS Index: | 0               |
| Operating Frequency | 5690 MHz        |
| Channel No.         | 138 Ch          |

| Frequency | Reading | A.F+C.L-A.G+ATT+D.F | ANT. POL | Total    | Limit    | Margin | Measurement |
|-----------|---------|---------------------|----------|----------|----------|--------|-------------|
| [MHz]     | dBuV    | [dB]                | [H/V]    | [dBuV/m] | [dBuV/m] | [dB]   | Type        |
| 5850      | 53.55   | 9.25                | H        | 62.80    | 68.20    | 5.40   | PK          |
| 5850      | 54.79   | 9.25                | V        | 64.04    | 68.20    | 4.16   | PK          |

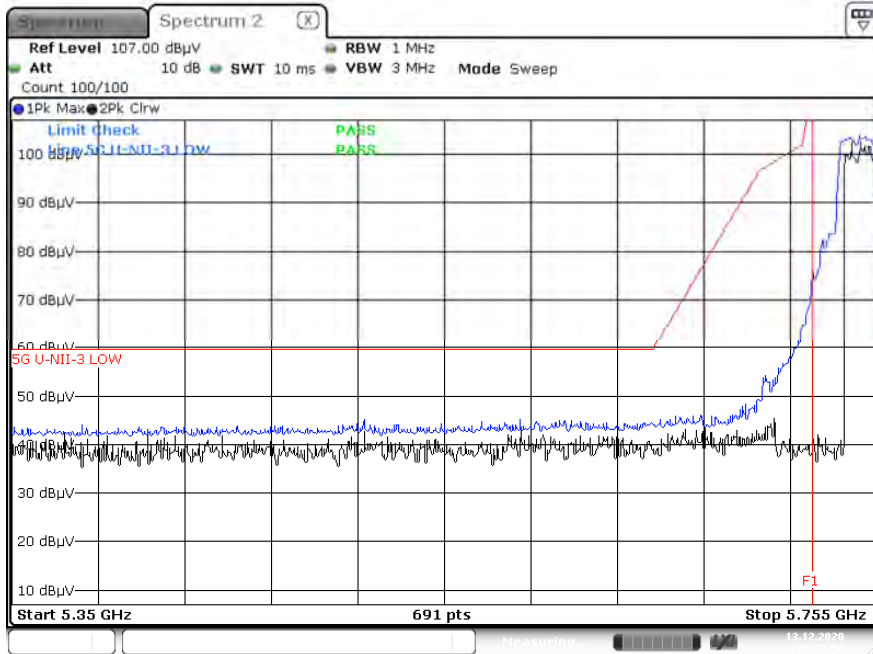
Peak Reading (802.11ac\_VHT80), Ch.138, X-H)



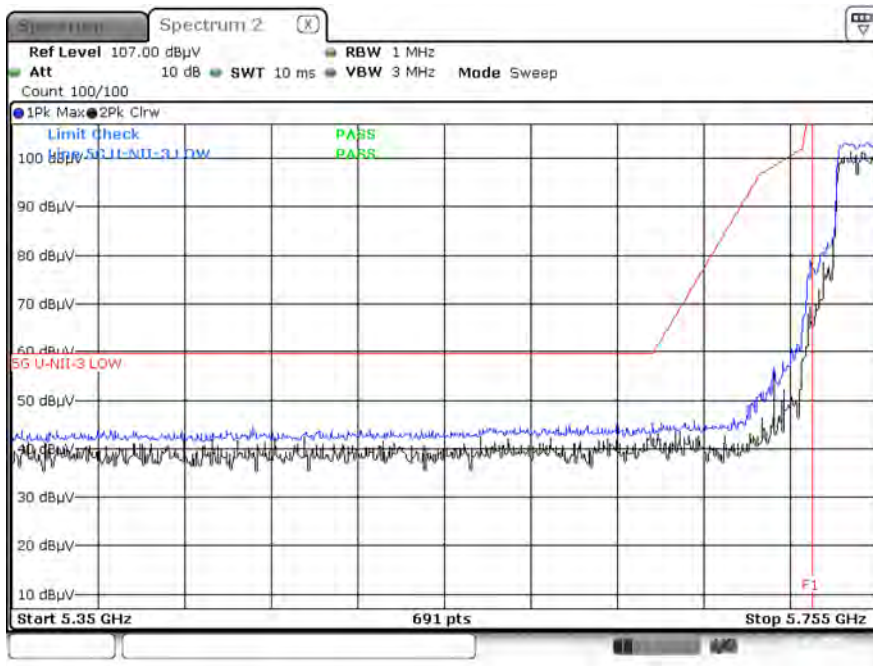
▣ Test Plots(UNII 3)

[SISO\_ANT.B]

Peak Reading (802.11a, Ch.149, X-H)

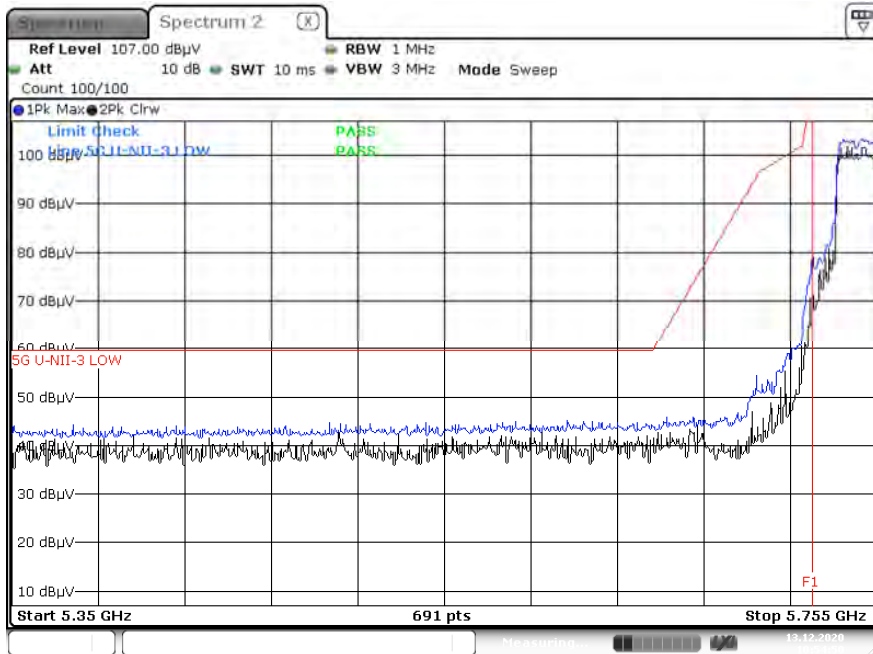


Peak Reading (802.11n\_HT20, Ch.149, X-H)

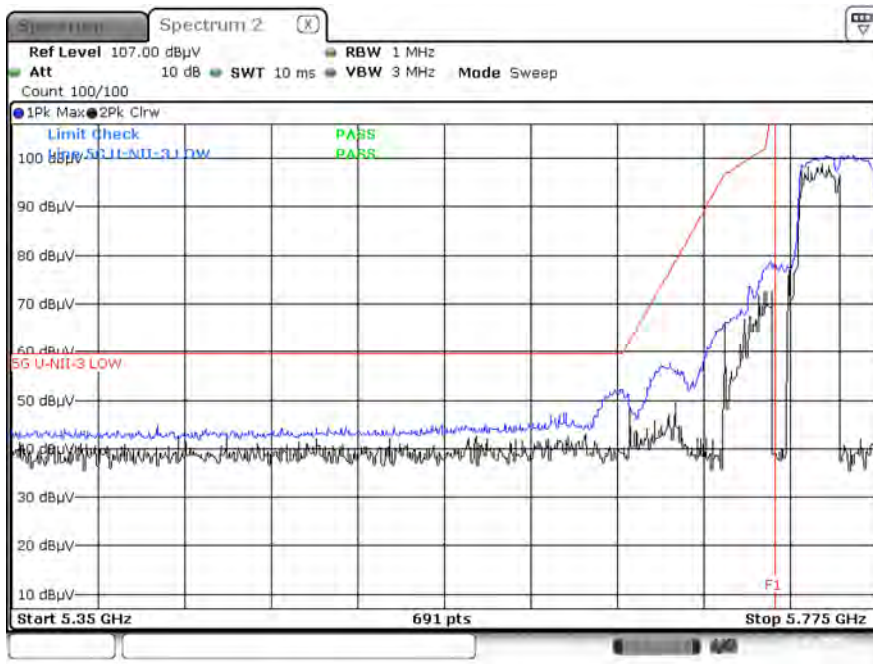




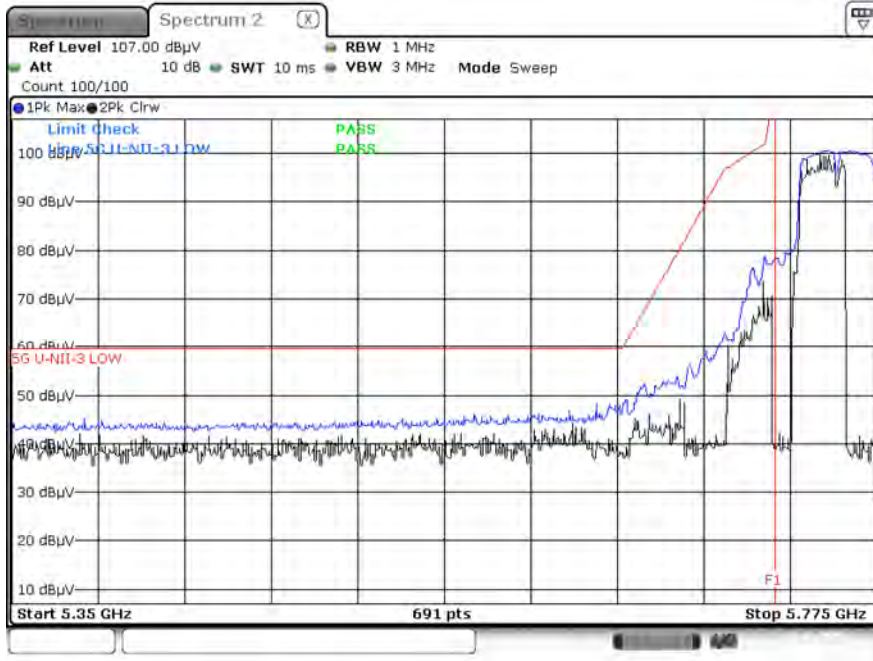
### Peak Reading (802.11ac\_VHT20, Ch.149, X-H)



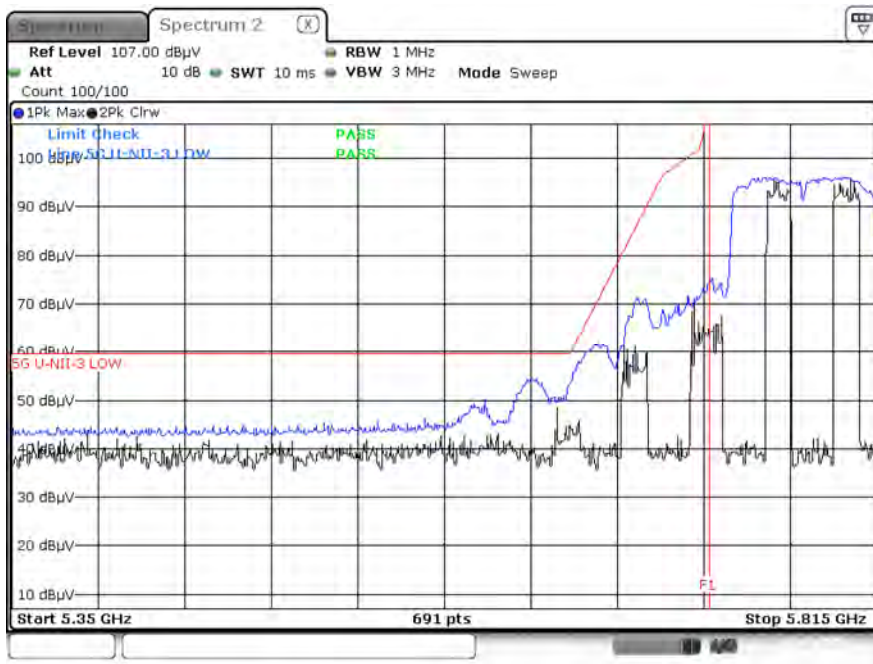
### Peak Reading (802.11n\_HT40, Ch.151, X-H)



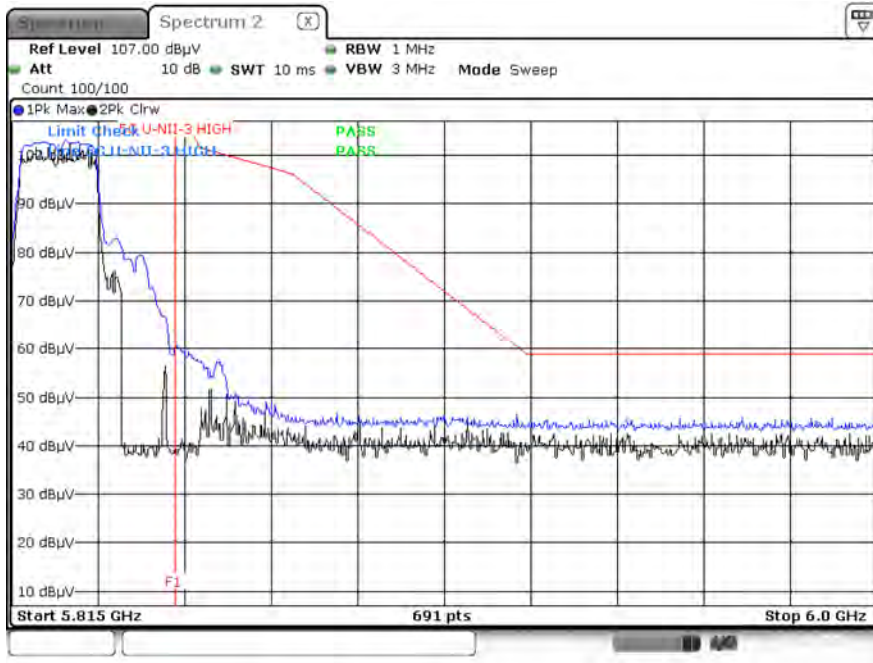
### Peak Reading (802.11ac\_VHT40, Ch.151, X-H)



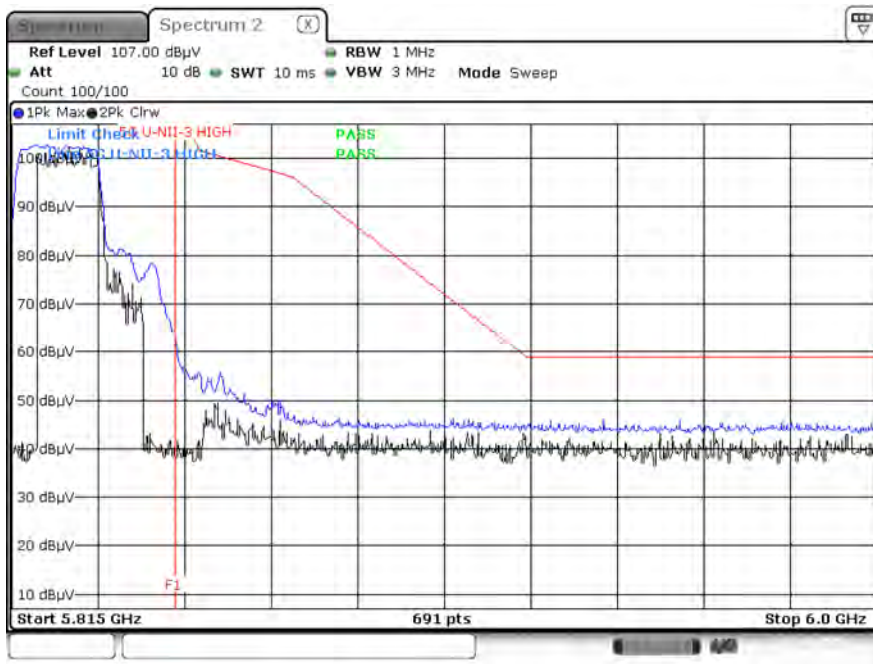
### Peak Reading (802.11ac\_VHT80, Ch.155, X-H)



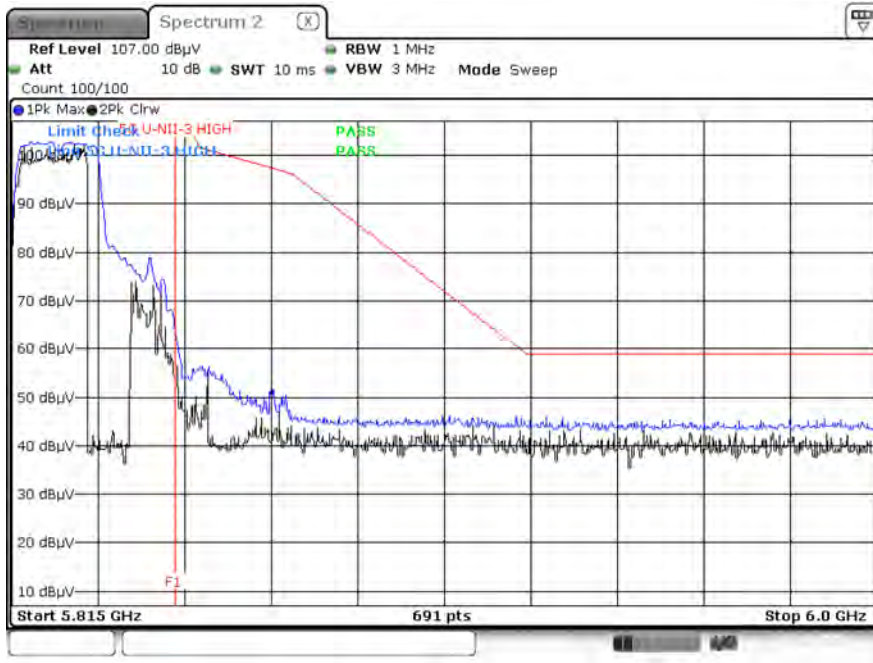
### Peak Reading (802.11a, Ch.165, X-H)



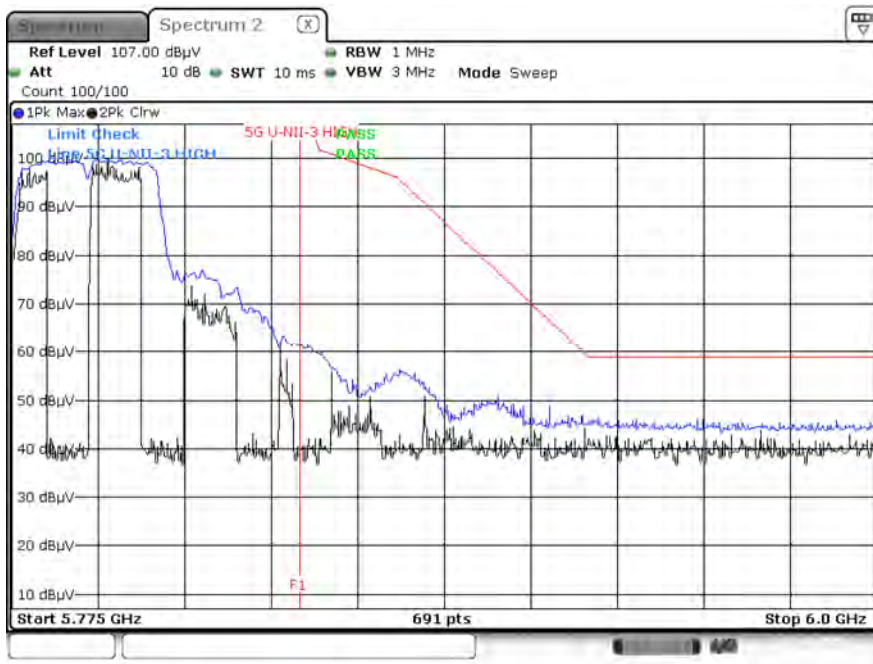
### Peak Reading (802.11n\_HT20, Ch.165, X-H)



### Peak Reading (802.11ac\_VHT20, Ch.165, X-H)

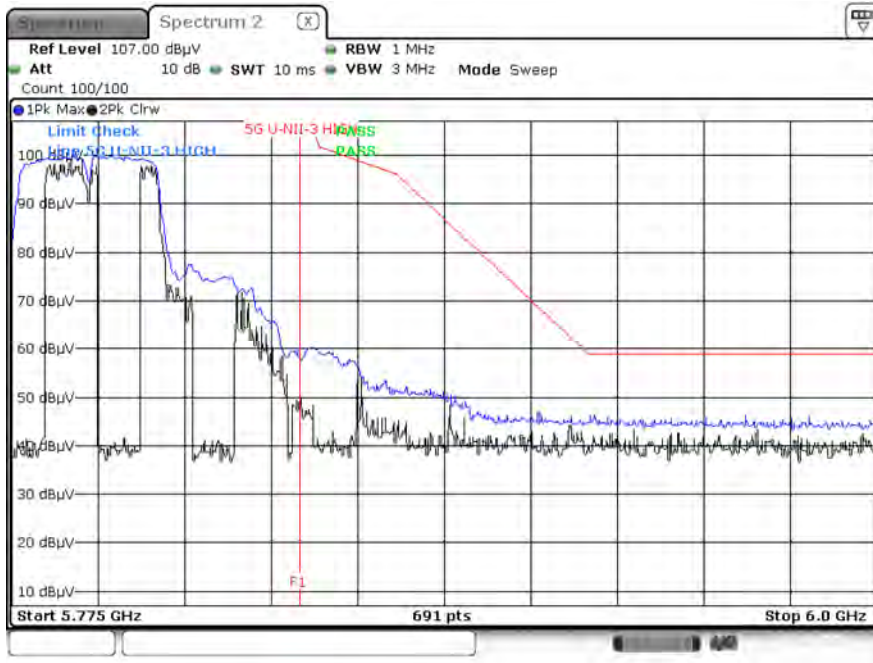


### Peak Reading (802.11n\_HT40, Ch.159, X-H)

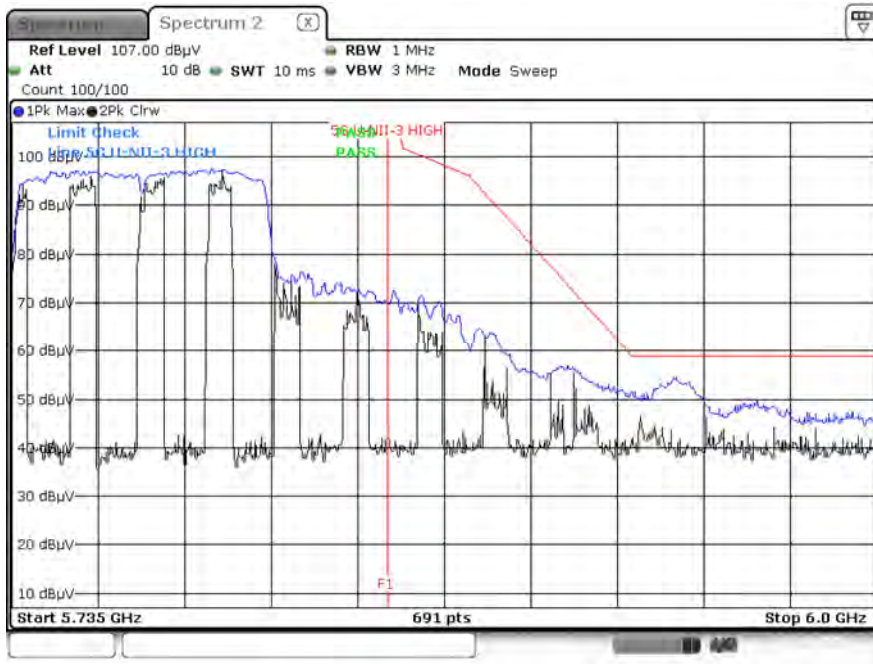




Peak Reading (802.11ac\_VHT40, Ch.159, X-H)



Peak Reading (802.11ac\_VHT80, Ch.155, X-H)



**Note :**

1. Only the worst case plots for U-NII-3 Out of Band e.i.r.p Emission.
2. U-NII-3 Low & High Band Edge RedLine is Final Test Limit about factor value compensation.

### 10.10 RECEIVER SPURIOUS EMISSIONS

#### Frequency Range : Below 1 GHz

| Frequency               | Reading | Ant. factor | Cable loss | Ant. POL | Total  | Limit  | Margin |
|-------------------------|---------|-------------|------------|----------|--------|--------|--------|
| MHz                     | dBuV/m  | dBm/m       | dBm        | (H/V)    | dBuV/m | dBuV/m | dB     |
| No Critical peaks found |         |             |            |          |        |        |        |

**Note:**

1. Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Quasi peak detector mode.

#### Frequency Range : Above 1 GHz

| Frequency               | Reading | Ant. factor | Cable loss | Ant. POL | Total  | Limit  | Margin |
|-------------------------|---------|-------------|------------|----------|--------|--------|--------|
| MHz                     | dBuV/m  | dBm/m       | dBm        | (H/V)    | dBuV/m | dBuV/m | dB     |
| No Critical peaks found |         |             |            |          |        |        |        |

### 10.11 POWERLINE CONDUCTED EMISSIONS

#### Conducted Emissions (Line 1)

5G WLAN\_L1

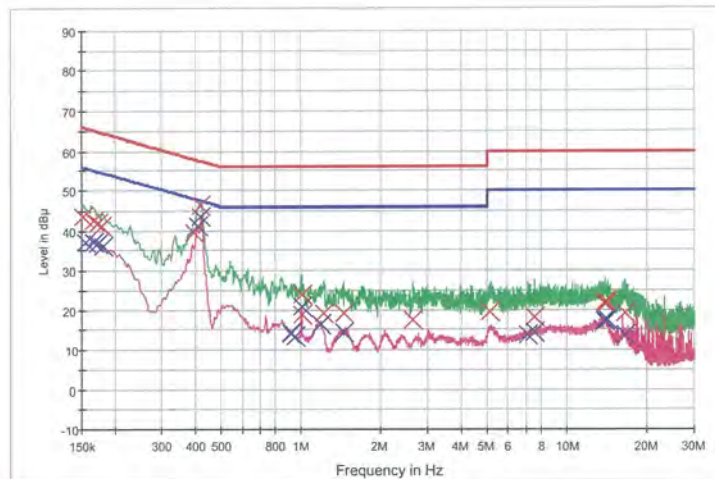
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## HCT TEST Report

### Common Information

EUT: ETPFFRPP01  
 Manufacturer: LG Innotek Co., Ltd.  
 Test Site: SHIELD ROOM  
 Operating Conditions: 5G WLAN MODE\_L1

FCC CLASS B\_Exten Cable



— FCC CLASS B\_QP     — FCC CLASS B\_AV     — Preview Result 1-PK+  
— Preview Result 2-AVG     x Final Result 1-QPK     x Final Result 2-CAV

### Final Result 1

| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|------------------|-----------------|--------|------|------------|-------------|--------------|
| 0.152250        | 43.5             | 9.000           | Off    | L1   | 9.8        | 22.4        | 65.9         |
| 0.165750        | 42.5             | 9.000           | Off    | L1   | 9.8        | 22.6        | 65.2         |
| 0.172500        | 41.9             | 9.000           | Off    | L1   | 9.8        | 22.9        | 64.8         |
| 0.179250        | 41.2             | 9.000           | Off    | L1   | 9.8        | 23.3        | 64.5         |
| 0.395250        | 39.6             | 9.000           | Off    | L1   | 9.8        | 18.3        | 58.0         |
| 0.422250        | 46.1             | 9.000           | Off    | L1   | 9.8        | 11.3        | 57.4         |
| 1.004000        | 24.0             | 9.000           | Off    | L1   | 9.8        | 32.0        | 56.0         |
| 1.015250        | 18.7             | 9.000           | Off    | L1   | 9.8        | 37.3        | 56.0         |
| 1.222250        | 19.1             | 9.000           | Off    | L1   | 9.8        | 36.9        | 56.0         |
| 1.445000        | 19.1             | 9.000           | Off    | L1   | 9.8        | 36.9        | 56.0         |
| 2.635250        | 17.3             | 9.000           | Off    | L1   | 9.9        | 38.7        | 56.0         |
| 5.119250        | 19.5             | 9.000           | Off    | L1   | 10.0       | 40.5        | 60.0         |
| 7.580750        | 18.3             | 9.000           | Off    | L1   | 10.1       | 41.7        | 60.0         |
| 13.813250       | 21.5             | 9.000           | Off    | L1   | 10.3       | 38.5        | 60.0         |
| 13.860500       | 21.9             | 9.000           | Off    | L1   | 10.3       | 38.1        | 60.0         |
| 14.153000       | 22.0             | 9.000           | Off    | L1   | 10.3       | 38.0        | 60.0         |
| 16.508750       | 19.2             | 9.000           | Off    | L1   | 10.4       | 40.8        | 60.0         |
| 16.580750       | 19.2             | 9.000           | Off    | L1   | 10.4       | 40.8        | 60.0         |

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5G WLAN\_L1

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**Final Result 2**

| Frequency (MHz) | CAverage (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.154500        | 37.0            | 9.000           | Off    | L1   | 9.8        | 18.7        | 55.8         |
| 0.165750        | 37.0            | 9.000           | Off    | L1   | 9.8        | 18.2        | 55.2         |
| 0.172500        | 36.7            | 9.000           | Off    | L1   | 9.8        | 18.1        | 54.8         |
| 0.181500        | 36.1            | 9.000           | Off    | L1   | 9.8        | 18.3        | 54.4         |
| 0.408750        | 41.3            | 9.000           | Off    | L1   | 9.8        | 6.4         | 47.7         |
| 0.422250        | 43.6            | 9.000           | Off    | L1   | 9.8        | 3.8         | 47.4         |
| 0.916250        | 14.3            | 9.000           | Off    | L1   | 9.8        | 31.7        | 46.0         |
| 0.920750        | 14.1            | 9.000           | Off    | L1   | 9.8        | 31.9        | 46.0         |
| 0.947750        | 13.5            | 9.000           | Off    | L1   | 9.8        | 32.5        | 46.0         |
| 1.004000        | 20.8            | 9.000           | Off    | L1   | 9.8        | 25.2        | 46.0         |
| 1.186250        | 16.4            | 9.000           | Off    | L1   | 9.8        | 29.6        | 46.0         |
| 1.445000        | 14.5            | 9.000           | Off    | L1   | 9.8        | 31.5        | 46.0         |
| 7.081250        | 13.9            | 9.000           | Off    | L1   | 10.1       | 36.1        | 50.0         |
| 7.578500        | 14.4            | 9.000           | Off    | L1   | 10.1       | 35.6        | 50.0         |
| 13.813250       | 17.2            | 9.000           | Off    | L1   | 10.3       | 32.8        | 50.0         |
| 13.860500       | 17.4            | 9.000           | Off    | L1   | 10.3       | 32.6        | 50.0         |
| 14.153000       | 17.5            | 9.000           | Off    | L1   | 10.3       | 32.5        | 50.0         |
| 16.506500       | 13.6            | 9.000           | Off    | L1   | 10.4       | 36.4        | 50.0         |

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Conducted Emissions (Line 2)

5G WLAN\_N

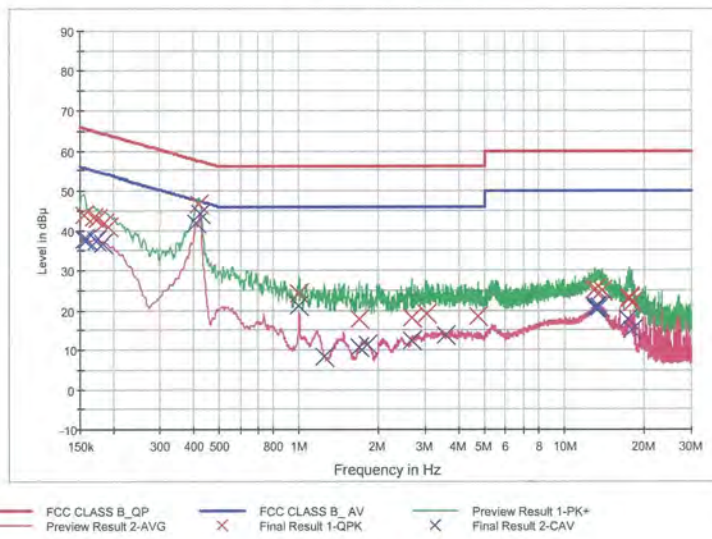
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### HCT TEST Report

**Common Information**

EUT: ETPFFRPP01  
 Manufacturer: LG Innotek Co., Ltd.  
 Test Site: SHIELD ROOM  
 Operating Conditions: 5G WLAN MODE\_N

FCC CLASS B\_Exten Cable



**Final Result 1**

| Frequency (MHz) | QuasiPeak (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|------------------|-----------------|--------|------|------------|-------------|--------------|
| 0.154500        | 44.1             | 9.000           | Off    | N    | 9.8        | 21.7        | 65.8         |
| 0.168000        | 43.4             | 9.000           | Off    | N    | 9.8        | 21.7        | 65.1         |
| 0.174750        | 42.8             | 9.000           | Off    | N    | 9.8        | 21.9        | 64.7         |
| 0.186000        | 42.0             | 9.000           | Off    | N    | 9.8        | 22.3        | 64.2         |
| 0.192750        | 41.0             | 9.000           | Off    | N    | 9.8        | 22.9        | 63.9         |
| 0.420000        | 46.6             | 9.000           | Off    | N    | 9.8        | 10.9        | 57.4         |
| 1.001750        | 24.3             | 9.000           | Off    | N    | 9.8        | 31.7        | 56.0         |
| 1.685750        | 17.7             | 9.000           | Off    | N    | 9.8        | 38.3        | 56.0         |
| 2.671250        | 18.0             | 9.000           | Off    | N    | 9.9        | 38.0        | 56.0         |
| 3.015500        | 19.2             | 9.000           | Off    | N    | 9.9        | 36.8        | 56.0         |
| 3.026750        | 19.1             | 9.000           | Off    | N    | 9.9        | 36.9        | 56.0         |
| 4.736750        | 18.5             | 9.000           | Off    | N    | 10.0       | 37.5        | 56.0         |
| 12.998750       | 25.0             | 9.000           | Off    | N    | 10.4       | 35.0        | 60.0         |
| 13.068500       | 25.2             | 9.000           | Off    | N    | 10.4       | 34.8        | 60.0         |
| 13.937000       | 24.8             | 9.000           | Off    | N    | 10.4       | 35.2        | 60.0         |
| 17.519000       | 22.8             | 9.000           | Off    | N    | 10.6       | 37.2        | 60.0         |
| 17.579750       | 23.1             | 9.000           | Off    | N    | 10.6       | 36.9        | 60.0         |
| 17.827250       | 21.9             | 9.000           | Off    | N    | 10.6       | 38.1        | 60.0         |

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오전 8:59:47

5G WLAN\_N

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**Final Result 2**

| Frequency (MHz) | CAverage (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.154500        | 37.8            | 9.000           | Off    | N    | 9.8        | 18.0        | 55.8         |
| 0.159000        | 37.9            | 9.000           | Off    | N    | 9.8        | 17.6        | 55.5         |
| 0.172500        | 37.5            | 9.000           | Off    | N    | 9.8        | 17.3        | 54.8         |
| 0.183750        | 36.9            | 9.000           | Off    | N    | 9.8        | 17.4        | 54.3         |
| 0.408750        | 42.0            | 9.000           | Off    | N    | 9.8        | 5.7         | 47.7         |
| 0.424500        | 44.3            | 9.000           | Off    | N    | 9.8        | 3.1         | 47.4         |
| 1.001750        | 21.1            | 9.000           | Off    | N    | 9.8        | 24.9        | 46.0         |
| 1.249250        | 8.4             | 9.000           | Off    | N    | 9.8        | 37.6        | 46.0         |
| 1.685750        | 10.6            | 9.000           | Off    | N    | 9.8        | 35.4        | 46.0         |
| 1.802750        | 11.4            | 9.000           | Off    | N    | 9.8        | 34.6        | 46.0         |
| 2.669000        | 12.5            | 9.000           | Off    | N    | 9.9        | 33.5        | 46.0         |
| 3.580250        | 13.6            | 9.000           | Off    | N    | 9.9        | 32.4        | 46.0         |
| 13.070750       | 20.6            | 9.000           | Off    | N    | 10.4       | 29.4        | 50.0         |
| 13.104500       | 20.7            | 9.000           | Off    | N    | 10.4       | 29.3        | 50.0         |
| 13.298000       | 21.0            | 9.000           | Off    | N    | 10.4       | 29.0        | 50.0         |
| 13.572500       | 20.8            | 9.000           | Off    | N    | 10.4       | 29.2        | 50.0         |
| 17.388500       | 17.9            | 9.000           | Off    | N    | 10.6       | 32.1        | 50.0         |
| 17.827250       | 15.0            | 9.000           | Off    | N    | 10.6       | 35.0        | 50.0         |

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## 11. LIST OF TEST EQUIPMENT

| <b>Conducted Test</b> |  |                         |                             |                   |
|-----------------------|--|-------------------------|-----------------------------|-------------------|
| <b>Manufacturer</b>   | <b>Model / Equipment</b>                     | <b>Calibration Date</b> | <b>Calibration Interval</b> | <b>Serial No.</b> |
| Rohde & Schwarz       | ENV216 / LISN                                | 09/04/2020              | Annual                      | 102245            |
| Rohde & Schwarz       | ESR / EMI Test Receiver                      | 09/16/2020              | Annual                      | 101910            |
| ESPEC                 | SU-642 /Temperature Chamber                  | 07/30/2020              | Annual                      | 0093000718        |
| Agilent               | N9030A / Signal Analyzer                     | 03/23/2020              | Annual                      | MY49432108        |
| Agilent               | N1911A / Power Meter                         | 04/07/2020              | Annual                      | MY45100523        |
| Agilent               | N1921A / Power Sensor                        | 06/08/2020              | Annual                      | MY57820067        |
| Agilent               | 87300B / Directional Coupler                 | 11/10/2020              | Annual                      | 3116A03621        |
| Hewlett Packard       | 11667B / Power Splitter                      | 02/14/2020              | Annual                      | 10545             |
| HP                    | E3632A / DC Power Supply                     | 09/16/2020              | Annual                      | MY40004427        |
| KIKUSUI               | PCR4000M / AC/DC Power supply(270V/40A)      | 10/14/2020              | Annual                      | VM002269          |
| HP                    | 8493C / Attenuator(10 dB)(DC-26.5 GHz)       | 06/26/2020              | Annual                      | 07560             |
| HP                    | 8493C / Attenuator(10 dB)(DC-26.5 GHz)       | 07/03/2020              | Annual                      | 08285             |
| Rohde & Schwarz       | 18N-20dB / Attenuator(20 dB)                 | 03/23/2020              | Annual                      | 8                 |
| Rohde & Schwarz       | EMC32 / Software                             | N/A                     | N/A                         | N/A               |
| HCT CO., LTD.         | FCC WLAN&BT&BLE Conducted Test Software v3.0 | N/A                     | N/A                         | N/A               |

**Note:**

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.

**Radiated Test**

| Manufacturer           | Model / Equipment                                       | Calibration Date | Calibration Interval | Serial No.  |
|------------------------|---|------------------|----------------------|-------------|
| Innco system           | CO3000 / Controller(Antenna mast)                       | N/A              | N/A                  | CO3000-4p   |
| Innco system           | MA4640/800-XP-EP / Antenna Position Tower               | N/A              | N/A                  | N/A         |
| Audix                  | EM1000 / Controller                                     | N/A              | N/A                  | 060520      |
| Audix                  | Turn Table  | N/A              | N/A                  | N/A         |
| TNM system             | FBSM-01B / Amp & Filter Bank Switch Controller          | N/A              | N/A                  | N/A         |
| Schwarzbeck            | Loop Antenna  | 05/18/2020       | Biennial             | 1513-175    |
| Schwarzbeck            | VULB 9168 / Hybrid Antenna                              | 08/02/2019       | Biennial             | 01039       |
| Schwarzbeck            | BBHA 9120D / Horn Antenna                               | 06/28/2019       | Biennial             | 1300        |
| Schwarzbeck            | BBHA9170 / Horn Antenna(15 GHz ~ 40 GHz)                | 04/29/2019       | Biennial             | BBHA9170342 |
| Rohde & Schwarz        | FSP(10 Hz ~ 40 GHz) / Spectrum Analyzer                 | 05/13/2020       | Annual               | 101055      |
| Wainwright Instruments | WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter | 01/21/2020       | Annual               | 2           |
| Wainwright Instruments | WRCJV5100/5850-40/50-8EEK / Band Reject Filter          | 02/10/2020       | Annual               | 1           |
| CERNEX                 | CBL18265035 / Power Amplifier                           | 12/04/2020       | Annual               | 22966       |
| CERNEX                 | CBL26405040 / Power Amplifier                           | 03/23/2020       | Annual               | 25956       |
| TNM system             | FBSM-05B / HPF(3~18GHz) + LNA1(1~18GHz)                 | 01/21/2020       | Annual               | F6          |
| TNM system             | FBSM-05B / ATT(10dB) + LNA1(1~18GHz)                    | 01/21/2020       | Annual               | None        |
| TNM system             | FBSM-05B / ATT(3dB) + LNA1(1~18GHz)                     | 01/21/2020       | Annual               | None        |
| TNM system             | FBSM-05B / LNA1(1~18GHz)                                | 01/21/2020       | Annual               | 25540       |
| TNM system             | FBSM-05B / HPF(7~18GHz) + LNA2(6~18GHz)                 | 01/21/2020       | Annual               | 28550       |
| TNM system             | FBSM-05B / Thru(30MHz ~ 18GHz)                          | 01/21/2020       | Annual               | None        |
| Weinschel              | 2-3 / Attenuator (3 dB)                                 | 10/07/2020       | Annual               | BR0617      |
| H+S                    | 5910-N-50-010 / Attenuator(10 dB)                       | 10/28/2020       | Annual               | None        |
| Rohde & Schwarz        | ESCI / Test Receiver                                    | 06/10/2020       | Annual               | 100584      |

**Note:**

1. Equipment listed above that calibrated during the testing period was set for test after the calibration.
2. Equipment listed above that has a calibration due date during the testing period, the testing is completed before equipment expiration date.
3. Especially, all antenna for measurement is calibrated in accordance with the requirements of C63.5(Version : 2017).

## 12. ANNEX A\_ TEST SETUP PHOTO

Please refer to test setup photo file no. as follows;

| No. | Description         |
|-----|---------------------|
| 1   | HCT-RF-2101-FI003-P |