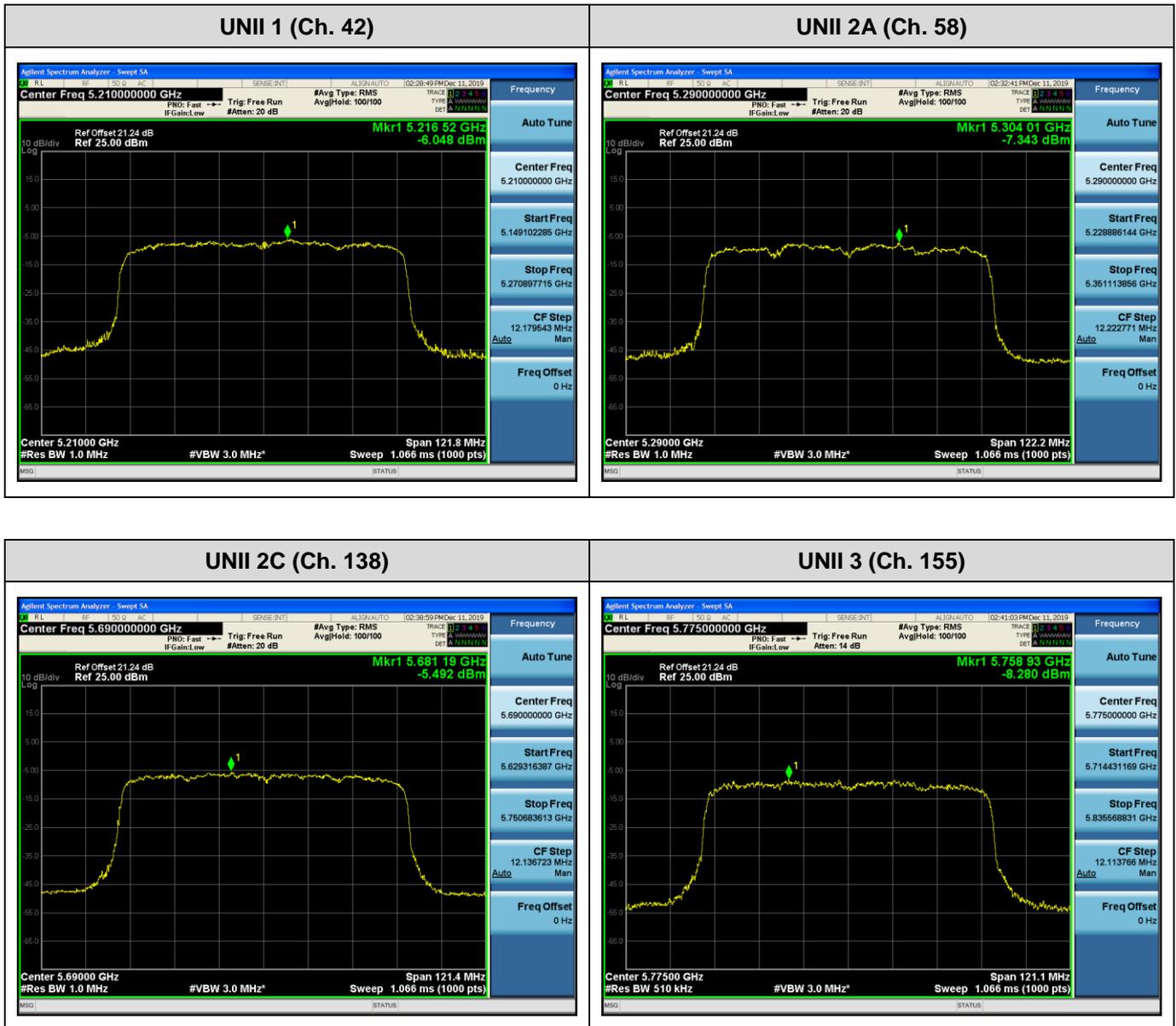


☐ Test Plots(802.11ac(VHT80))

Note:

In order to simplify the report, attached plots were only channel of highest power.



10.6 FREQUENCY STABILITY.

10.6.1 80MHz BW

Startup after the EUT is energized

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5210036.24 | 36.24 |
| 100% | | -30 | 5210053.04 | 53.04 |
| 100% | | -20 | 5210046.07 | 46.07 |
| 100% | | -10 | 5210040.11 | 40.11 |
| 100% | | 0 | 5210035.02 | 35.02 |
| 100% | | +10 | 5210032.60 | 32.60 |
| 100% | | +30 | 5210031.51 | 31.51 |
| 100% | | +40 | 5210041.98 | 41.98 |
| 100% | | +50 | 5210046.89 | 46.89 |
| Low | | 4.35 | +20 | 5210045.08 |
| High | 3.40 | +20 | 5210047.27 | 47.27 |

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 2A
 OPERATING FREQUENCY: 5,290,000,000 Hz
 CHANNEL: 58
 REFERENCE VOLTAGE: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5290035.87 | 35.87 |
| 100% | | -30 | 5290051.63 | 51.63 |
| 100% | | -20 | 5290044.30 | 44.30 |
| 100% | | -10 | 5290037.40 | 37.40 |
| 100% | | 0 | 5290033.76 | 33.76 |
| 100% | | +10 | 5290030.53 | 30.53 |
| 100% | | +30 | 5290032.45 | 32.45 |
| 100% | | +40 | 5290041.33 | 41.33 |
| 100% | | +50 | 5290046.40 | 46.40 |
| Low | | 4.35 | +20 | 5290045.24 |
| High | 3.40 | +20 | 5290047.15 | 47.15 |

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.

OPERATING BAND: UNII Band 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5530036.16 | 36.16 |
| 100% | | -30 | 5530052.83 | 52.83 |
| 100% | | -20 | 5530045.97 | 45.97 |
| 100% | | -10 | 5530039.30 | 39.30 |
| 100% | | 0 | 5530034.65 | 34.65 |
| 100% | | +10 | 5530031.40 | 31.40 |
| 100% | | +30 | 5530031.20 | 31.20 |
| 100% | | +40 | 5530041.14 | 41.14 |
| 100% | | +50 | 5530044.34 | 44.34 |
| Low | | 4.35 | +20 | 5530043.37 |
| High | 3.40 | +20 | 5530048.32 | 48.32 |

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: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5775036.65 | 36.65 |
| 100% | | -30 | 5775052.87 | 52.87 |
| 100% | | -20 | 5775045.43 | 45.43 |
| 100% | | -10 | 5775038.35 | 38.35 |
| 100% | | 0 | 5775033.34 | 33.34 |
| 100% | | +10 | 5775029.37 | 29.37 |
| 100% | | +30 | 5775031.27 | 31.27 |
| 100% | | +40 | 5775039.33 | 39.33 |
| 100% | | +50 | 5775043.05 | 43.05 |
| Low | | 4.35 | +20 | 5775043.89 |
| High | 3.40 | +20 | 5775045.59 | 45.59 |

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.

2 minutes after the EUT is energized

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5210037.22 | 37.22 |
| 100% | | -30 | 5210053.06 | 53.06 |
| 100% | | -20 | 5210045.98 | 45.98 |
| 100% | | -10 | 5210039.36 | 39.36 |
| 100% | | 0 | 5210036.04 | 36.04 |
| 100% | | +10 | 5210032.13 | 32.13 |
| 100% | | +30 | 5210032.60 | 32.60 |
| 100% | | +40 | 5210041.33 | 41.33 |
| 100% | | +50 | 5210046.27 | 46.27 |
| Low | | 4.35 | +20 | 5210045.11 |
| High | 3.40 | +20 | 5210047.54 | 47.54 |

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: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5290037.01 | 37.01 |
| 100% | | -30 | 5290053.44 | 53.44 |
| 100% | | -20 | 5290047.25 | 47.25 |
| 100% | | -10 | 5290041.46 | 41.46 |
| 100% | | 0 | 5290037.94 | 37.94 |
| 100% | | +10 | 5290034.92 | 34.92 |
| 100% | | +30 | 5290032.41 | 32.41 |
| 100% | | +40 | 5290042.55 | 42.55 |
| 100% | | +50 | 5290047.49 | 47.49 |
| Low | | 4.35 | +20 | 5290045.11 |
| High | 3.40 | +20 | 5290047.43 | 47.43 |

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: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5530037.47 | 37.47 |
| 100% | | -30 | 5530053.06 | 53.06 |
| 100% | | -20 | 5530045.55 | 45.55 |
| 100% | | -10 | 5530039.80 | 39.80 |
| 100% | | 0 | 5530036.11 | 36.11 |
| 100% | | +10 | 5530032.92 | 32.92 |
| 100% | | +30 | 5530031.46 | 31.46 |
| 100% | | +40 | 5530041.30 | 41.30 |
| 100% | | +50 | 5530045.35 | 45.35 |
| Low | | 4.35 | +20 | 5530044.22 |
| High | 3.40 | +20 | 5530047.54 | 47.54 |

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: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5775036.97 | 36.97 |
| 100% | | -30 | 5775052.73 | 52.73 |
| 100% | | -20 | 5775045.27 | 45.27 |
| 100% | | -10 | 5775038.65 | 38.65 |
| 100% | | 0 | 5775033.62 | 33.62 |
| 100% | | +10 | 5775030.21 | 30.21 |
| 100% | | +30 | 5775032.18 | 32.18 |
| 100% | | +40 | 5775041.25 | 41.25 |
| 100% | | +50 | 5775046.14 | 46.14 |
| Low | | 4.35 | +20 | 5775045.06 |
| High | 3.40 | +20 | 5775046.24 | 46.24 |

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: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5210037.58 | 37.58 |
| 100% | | -30 | 5210052.75 | 52.75 |
| 100% | | -20 | 5210044.73 | 44.73 |
| 100% | | -10 | 5210038.44 | 38.44 |
| 100% | | 0 | 5210033.34 | 33.34 |
| 100% | | +10 | 5210030.88 | 30.88 |
| 100% | | +30 | 5210032.05 | 32.05 |
| 100% | | +40 | 5210041.89 | 41.89 |
| 100% | | +50 | 5210047.85 | 47.85 |
| Low | | 4.35 | +20 | 5210046.13 |
| High | 3.40 | +20 | 5210045.67 | 45.67 |

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: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5290037.82 | 37.82 |
| 100% | | -30 | 5290051.98 | 51.98 |
| 100% | | -20 | 5290045.18 | 45.18 |
| 100% | | -10 | 5290039.33 | 39.33 |
| 100% | | 0 | 5290035.35 | 35.35 |
| 100% | | +10 | 5290033.21 | 33.21 |
| 100% | | +30 | 5290031.16 | 31.16 |
| 100% | | +40 | 5290041.22 | 41.22 |
| 100% | | +50 | 5290047.24 | 47.24 |
| Low | | 4.35 | +20 | 5290046.19 |
| High | 3.40 | +20 | 5290045.65 | 45.65 |

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 2C
 OPERATING FREQUENCY: 5,530,000,000 Hz
 CHANNEL: 106
 REFERENCE VOLTAGE: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5530038.24 | 38.24 |
| 100% | | -30 | 5530052.81 | 52.81 |
| 100% | | -20 | 5530045.25 | 45.25 |
| 100% | | -10 | 5530038.30 | 38.30 |
| 100% | | 0 | 5530034.53 | 34.53 |
| 100% | | +10 | 5530031.96 | 31.96 |
| 100% | | +30 | 5530032.77 | 32.77 |
| 100% | | +40 | 5530041.24 | 41.24 |
| 100% | | +50 | 5530047.02 | 47.02 |
| Low | | 4.35 | +20 | 5530045.95 |
| High | 3.40 | +20 | 5530047.88 | 47.88 |

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: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5775038.44 | 38.44 |
| 100% | | -30 | 5775051.92 | 51.92 |
| 100% | | -20 | 5775045.21 | 45.21 |
| 100% | | -10 | 5775039.91 | 39.91 |
| 100% | | 0 | 5775036.02 | 36.02 |
| 100% | | +10 | 5775032.84 | 32.84 |
| 100% | | +30 | 5775030.86 | 30.86 |
| 100% | | +40 | 5775039.70 | 39.70 |
| 100% | | +50 | 5775045.53 | 45.53 |
| Low | | 4.35 | +20 | 5775046.00 |
| High | 3.40 | +20 | 5775045.80 | 45.80 |

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.

10 minutes after the EUT is energized

OPERATING BAND: UNII Band 1
 OPERATING FREQUENCY: 5,210,000,000 Hz
 CHANNEL: 42
 REFERENCE VOLTAGE: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5210037.69 | 37.69 |
| 100% | | -30 | 5210051.97 | 51.97 |
| 100% | | -20 | 5210045.60 | 45.60 |
| 100% | | -10 | 5210040.18 | 40.18 |
| 100% | | 0 | 5210035.58 | 35.58 |
| 100% | | +10 | 5210032.13 | 32.13 |
| 100% | | +30 | 5210031.92 | 31.92 |
| 100% | | +40 | 5210040.47 | 40.47 |
| 100% | | +50 | 5210046.41 | 46.41 |
| Low | | 4.35 | +20 | 5210046.11 |
| High | 3.40 | +20 | 5210046.45 | 46.45 |

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: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5290037.87 | 37.87 |
| 100% | | -30 | 5290051.84 | 51.84 |
| 100% | | -20 | 5290045.43 | 45.43 |
| 100% | | -10 | 5290038.36 | 38.36 |
| 100% | | 0 | 5290034.28 | 34.28 |
| 100% | | +10 | 5290031.03 | 31.03 |
| 100% | | +30 | 5290032.11 | 32.11 |
| 100% | | +40 | 5290041.88 | 41.88 |
| 100% | | +50 | 5290047.50 | 47.50 |
| Low | | 4.35 | +20 | 5290045.79 |
| High | 3.40 | +20 | 5290048.41 | 48.41 |

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: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5530038.35 | 38.35 |
| 100% | | -30 | 5530052.86 | 52.86 |
| 100% | | -20 | 5530046.55 | 46.55 |
| 100% | | -10 | 5530040.14 | 40.14 |
| 100% | | 0 | 5530035.75 | 35.75 |
| 100% | | +10 | 5530033.51 | 33.51 |
| 100% | | +30 | 5530031.80 | 31.80 |
| 100% | | +40 | 5530041.69 | 41.69 |
| 100% | | +50 | 5530047.22 | 47.22 |
| Low | | 4.35 | +20 | 5530045.70 |
| High | 3.40 | +20 | 5530045.86 | 45.86 |

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: 3.85 VDC

| Voltage (%) | Power (VDC) | Temp. (°C) | Frequency (kHz) | Frequency Error (kHz) |
|-------------|-------------|------------|-----------------|-----------------------|
| 100% | 3.85 | +20(Ref) | 5775038.65 | 38.65 |
| 100% | | -30 | 5775052.38 | 52.38 |
| 100% | | -20 | 5775045.37 | 45.37 |
| 100% | | -10 | 5775039.99 | 39.99 |
| 100% | | 0 | 5775036.64 | 36.64 |
| 100% | | +10 | 5775033.68 | 33.68 |
| 100% | | +30 | 5775032.74 | 32.74 |
| 100% | | +40 | 5775041.88 | 41.88 |
| 100% | | +50 | 5775046.25 | 46.25 |
| Low | 4.35 | +20 | 5775044.54 | 44.54 |
| High | 3.40 | +20 | 5775048.46 | 48.46 |

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

| Mode | Band | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11a | UNII 2C | 5720 | 144 | 5709.40 | 15.60 |
| 802.11n(HT20) | | | | 5709.08 | 15.92 |
| 802.11ac(VHT20) | | | | 5709.32 | 15.68 |
| 802.11a | UNII 3 | 5720 | 144 | 5730.44 | 5.44 |
| 802.11n(HT20) | | | | 5731.00 | 6.00 |
| 802.11ac(VHT20) | | | | 5731.08 | 6.08 |

| Mode | Band | Frequency [MHz] | Channel | Measured Frequency [MHz] | 26dB Bandwidth [MHz] |
|-----------------|---------|-----------------|---------|--------------------------|----------------------|
| 802.11n(HT40) | UNII 2C | 5710 | 142 | 5688.32 | 36.68 |
| 802.11ac(VHT40) | | | | 5688.48 | 36.52 |
| 802.11n(HT40) | UNII 3 | 5710 | 142 | 5731.44 | 6.44 |
| 802.11ac(VHT40) | | | | 5731.12 | 6.12 |

| 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 | 5730.20 | 5.20 |

Note:

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

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

☐ 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



10.7.2 6dB Bandwidth

| Mode | Band | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11a | UNII 3 | 5720 | 144 | 5727.63 | 2.63 | > 0.5 |
| 802.11n(HT20) | | | | 5727.65 | 2.65 | > 0.5 |
| 802.11ac(VHT20) | | | | 5728.51 | 3.51 | > 0.5 |

| Mode | Band | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11n(HT40) | UNII 3 | 5710 | 142 | 5728.58 | 3.58 | > 0.5 |
| 802.11ac(VHT40) | | | | 5728.60 | 3.60 | > 0.5 |

| Mode | Band | Frequency [MHz] | Channel | Measured Frequency [MHz] | 6dB Bandwidth [MHz] | Limit [MHz] |
|-----------------|--------|-----------------|---------|--------------------------|---------------------|-------------|
| 802.11ac(VHT80) | UNII 3 | 5690 | 138 | 5728.71 | 3.71 | > 0.5 |

Note:

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

☐ Test Plots(UNII 3 Band 6dB Bandwidth)

802.11a CH.144



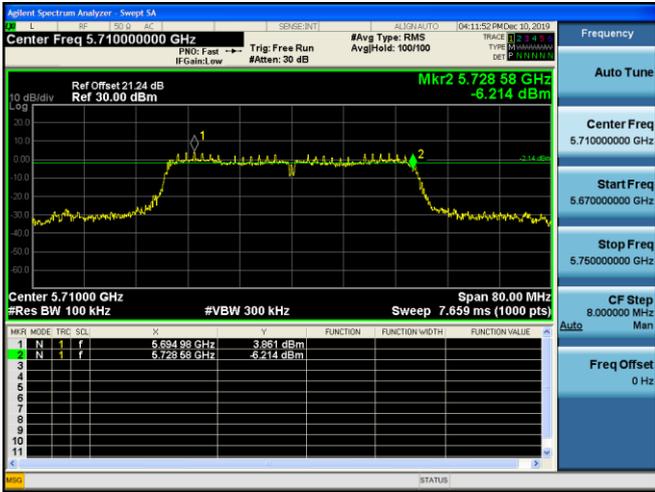
802.11n_HT20 CH.144



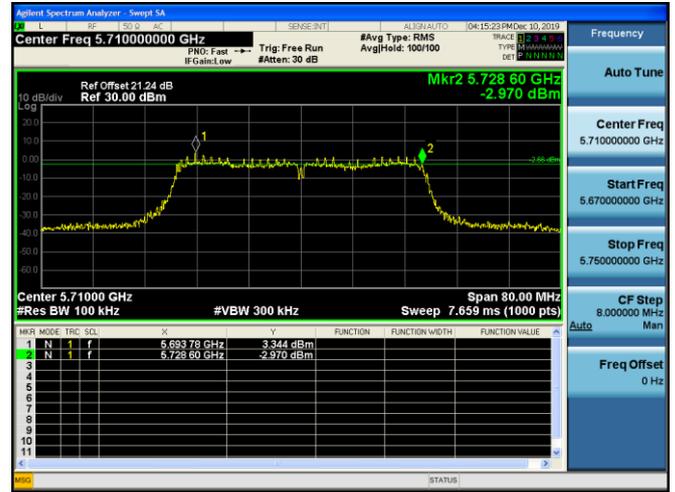
802.11ac_VHT20 CH.144



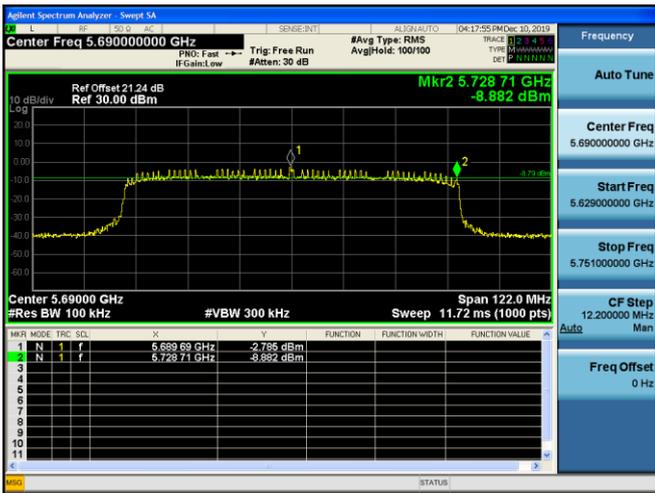
802.11n_HT40 CH.142



802.11ac_VHT40 CH.142



802.11ac_VHT80 CH.138



10.7.3 Output Power

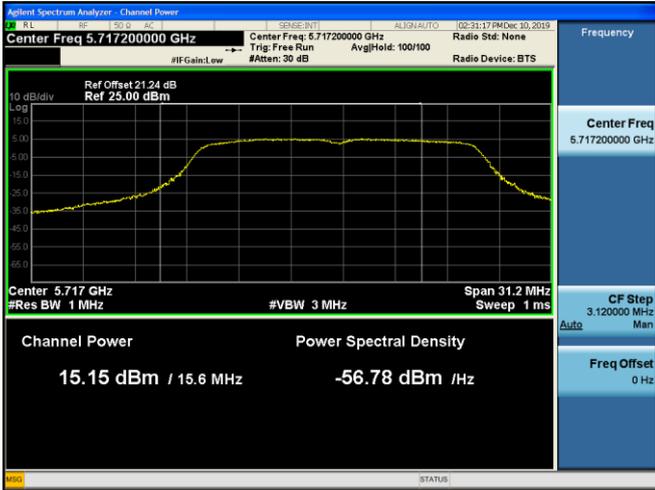
| Mode | Frequency [MHz] | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11a | 5720 (UNII 2C Band) | 144 | 15.15 | 1.669 | 16.82 | 22.93 |
| 802.11n(HT20) | | | 15.11 | 1.565 | 16.67 | 23.02 |
| 802.11ac(VHT20) | | | 15.07 | 1.549 | 16.62 | 22.95 |
| 802.11a | 5720 (UNII 3 Band) | 144 | 8.18 | 1.669 | 9.85 | 30.00 |
| 802.11n(HT20) | | | 8.38 | 1.565 | 9.94 | 30.00 |
| 802.11ac(VHT20) | | | 8.40 | 1.549 | 9.95 | 30.00 |

| Mode | Frequency [MHz] | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11n(HT40) | 5710 (UNII 2C Band) | 142 | 13.43 | 1.805 | 15.24 | 23.98 |
| 802.11ac(VHT40) | | | 13.24 | 2.407 | 15.65 | 23.98 |
| 802.11n(HT40) | 5710 (UNII 3 Band) | 142 | 4.18 | 1.805 | 5.99 | 30.00 |
| 802.11ac(VHT40) | | | 4.07 | 2.407 | 6.48 | 30.00 |

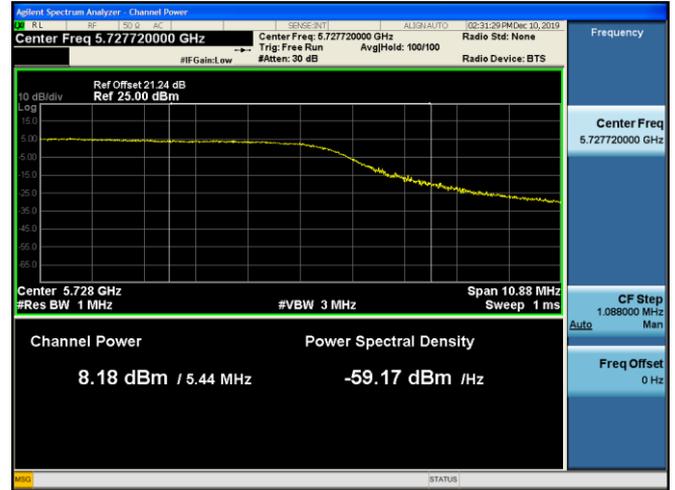
| Mode | Frequency [MHz] | Channel | Measured Power (dBm) | Duty Cycle Factor (dB) | Total Power (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|----------------------|------------------------|-------------------|-------------|
| 802.11ac(VHT80) | 5690 (UNII 2C Band) | 138 | 10.62 | 2.567 | 13.19 | 23.98 |
| | 5690 (UNII 3 Band) | 138 | -4.80 | 2.567 | -2.23 | 30.00 |

☐ Test Plots

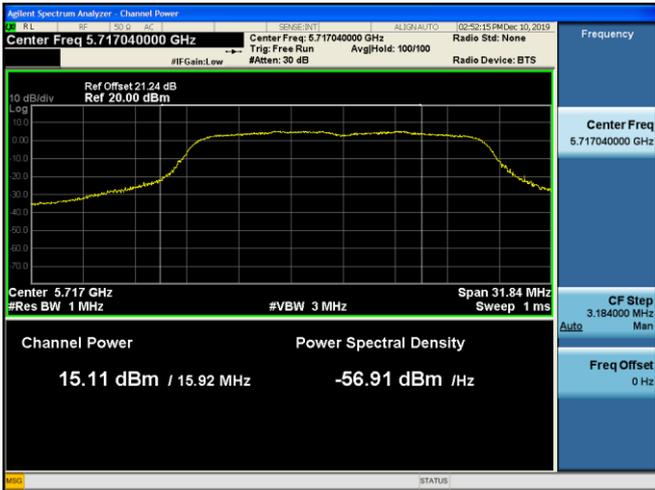
802.11a UNII 2C Band



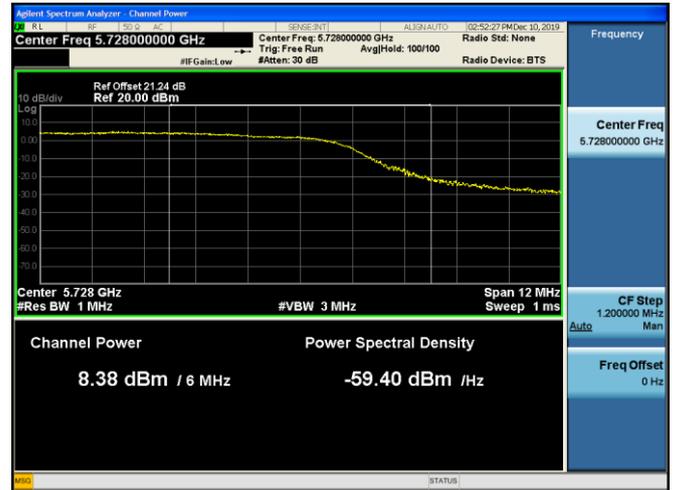
802.11a UNII 3 Band



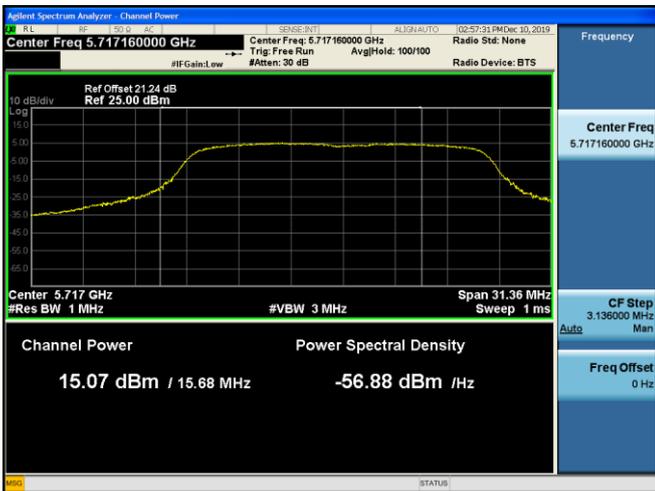
802.11n(HT20) UNII 2C Band



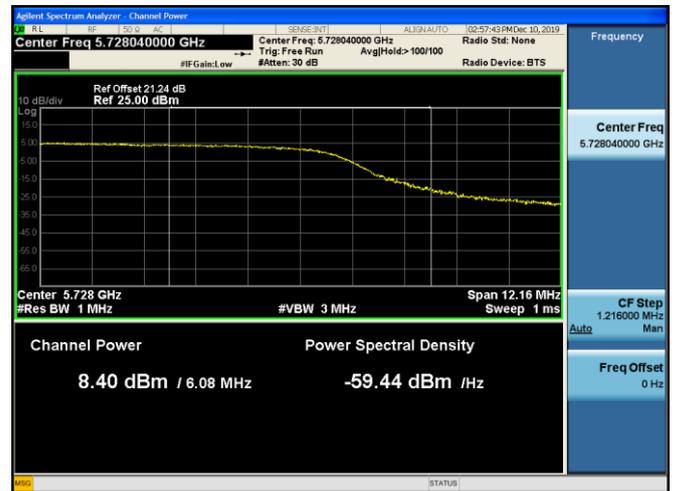
802.11n(HT20) UNII 3 Band



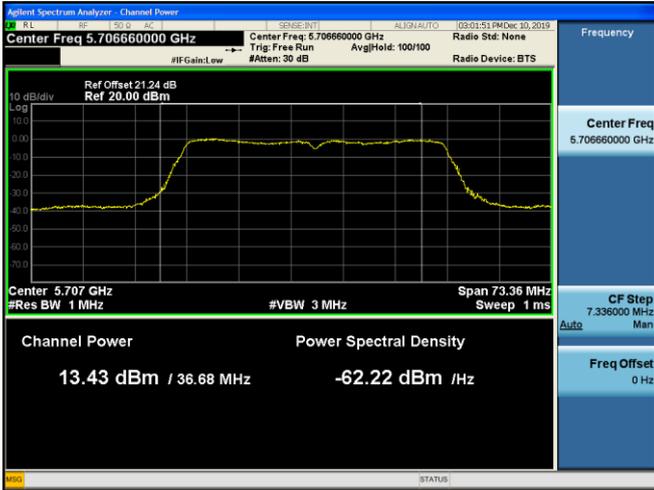
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



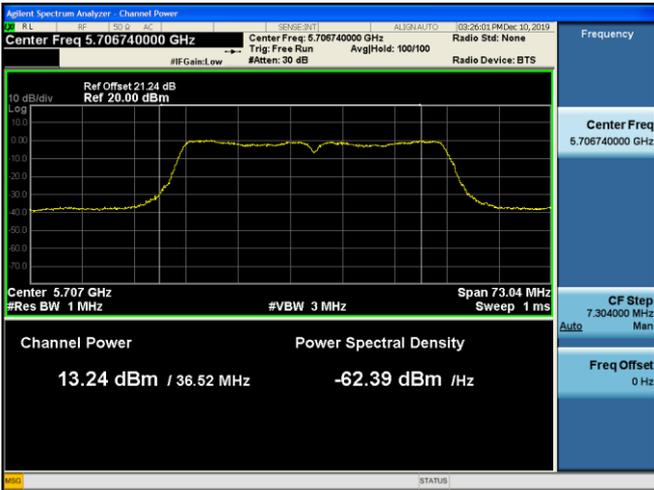
802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



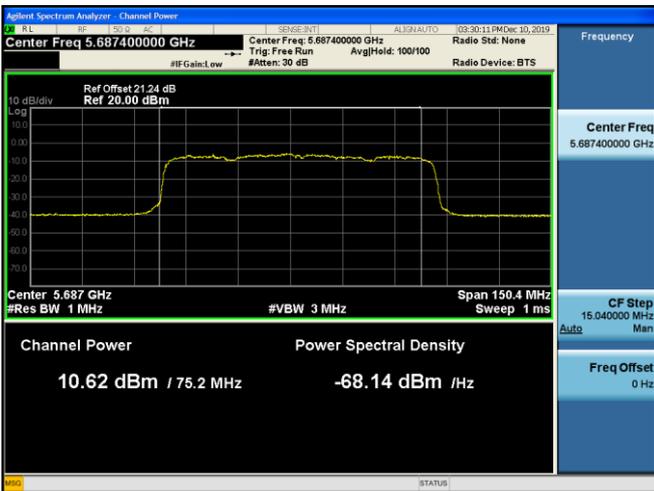
802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



10.7.4 Power Spectral Density

| Mode | Frequency [MHz] | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|------------------------|------------------------|-----------------|-------------|
| 802.11a | 5720 (UNII 2C Band) | 144 | 5.716 | 1.669 | 7.385 | 11.00 |
| 802.11n(HT20) | | | 5.269 | 1.565 | 6.834 | 11.00 |
| 802.11ac(VHT20) | | | 5.802 | 1.549 | 7.351 | 11.00 |
| 802.11a | 5720 (UNII 3 Band) | 144 | 1.524 | 1.669 | 3.193 | 30.00 |
| 802.11n(HT20) | | | 1.455 | 1.565 | 3.020 | 30.00 |
| 802.11ac(VHT20) | | | 1.353 | 1.549 | 2.902 | 30.00 |

| Mode | Frequency [MHz] | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|------------------------|------------------------|-----------------|-------------|
| 802.11n(HT40) | 5710 (UNII 2C Band) | 142 | 0.522 | 1.805 | 2.327 | 11.00 |
| 802.11ac(VHT40) | | | -0.166 | 2.407 | 2.241 | 11.00 |
| 802.11n(HT40) | 5710 (UNII 3 Band) | 142 | -2.756 | 1.805 | -0.951 | 30.00 |
| 802.11ac(VHT40) | | | -2.401 | 2.407 | 0.006 | 30.00 |

| Mode | Frequency [MHz] | Channel | Measured Density (dBm) | Duty Cycle Factor (dB) | Total PSD (dBm) | Limit (dBm) |
|-----------------|------------------------|---------|------------------------|------------------------|-----------------|-------------|
| 802.11ac(VHT80) | 5690 (UNII 2C Band) | 138 | -6.110 | 2.567 | -3.543 | 11.00 |
| | 5690 (UNII 3 Band) | 138 | -11.773 | 2.567 | -9.206 | 30.00 |

☐ Test Plots

802.11a UNII 2C Band



802.11a UNII 3 Band



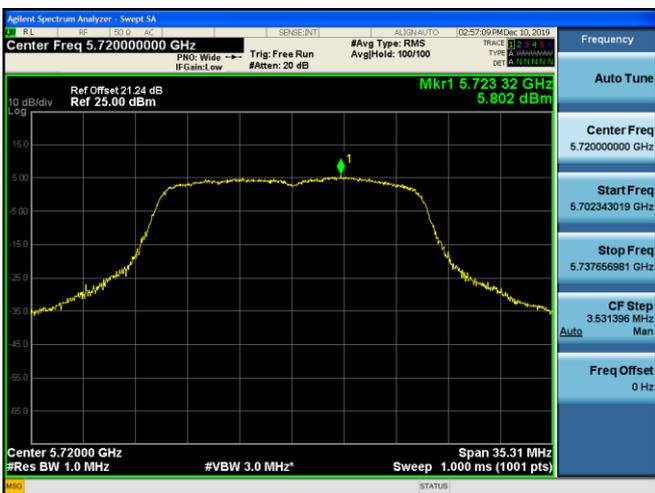
802.11n(HT20) UNII 2C Band



802.11n(HT20) UNII 3 Band



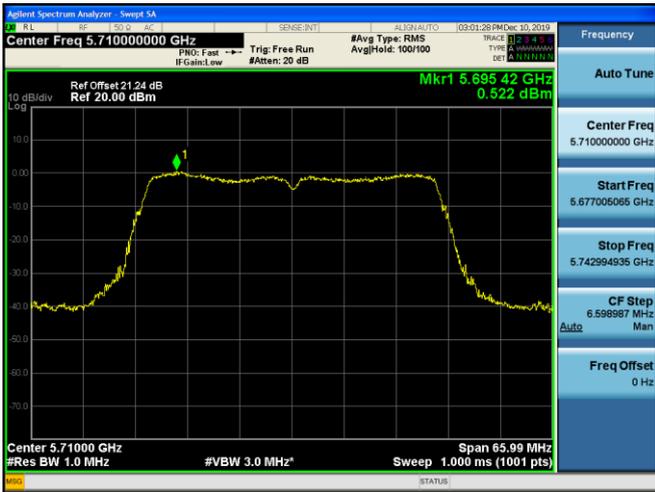
802.11ac(VHT20) UNII 2C Band



802.11ac(VHT20) UNII 3 Band



802.11n(HT40) UNII 2C Band



802.11n(HT40) UNII 3 Band



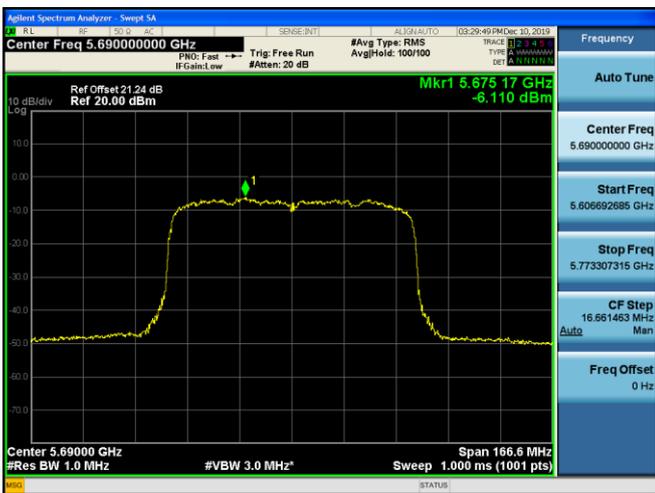
802.11ac(VHT40) UNII 2C Band



802.11ac(VHT40) UNII 3 Band



802.11ac(VHT80) UNII 2C Band



802.11ac(VHT80) UNII 3 Band



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

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 [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10360 | 45.55 | 6.89 | V | 52.44 | 68.20 | 15.76 | PK |
| 15540 | 45.70 | 12.57 | V | 58.27 | 73.98 | 15.71 | PK |
| 15540 | 31.67 | 12.57 | V | 44.24 | 53.98 | 9.74 | AV |
| 10360 | 46.15 | 6.89 | H | 53.04 | 68.20 | 15.16 | PK |
| 15540 | 45.80 | 12.57 | H | 58.37 | 73.98 | 15.61 | PK |
| 15540 | 31.76 | 12.57 | H | 44.33 | 53.98 | 9.65 | AV |

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

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10400 | 44.02 | 6.94 | V | 50.96 | 68.20 | 17.24 | PK |
| 15600 | 44.67 | 11.47 | V | 56.14 | 73.98 | 17.84 | PK |
| 15600 | 31.13 | 11.47 | V | 42.60 | 53.98 | 11.38 | AV |
| 10400 | 44.81 | 6.94 | H | 51.75 | 68.20 | 16.45 | PK |
| 15600 | 45.21 | 11.47 | H | 56.68 | 73.98 | 17.30 | PK |
| 15600 | 31.17 | 11.47 | H | 42.64 | 53.98 | 11.34 | AV |

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

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10480 | 43.03 | 7.65 | V | 50.68 | 68.20 | 17.52 | PK |
| 15720 | 44.47 | 11.66 | V | 56.13 | 73.98 | 17.85 | PK |
| 15720 | 30.36 | 11.66 | V | 42.02 | 53.98 | 11.96 | AV |
| 10480 | 43.70 | 7.65 | H | 51.35 | 68.20 | 16.85 | PK |
| 15720 | 44.55 | 11.66 | H | 56.21 | 73.98 | 17.77 | PK |
| 15720 | 30.68 | 11.66 | H | 42.34 | 53.98 | 11.64 | AV |

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

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10520 | 43.74 | 8.33 | V | 52.07 | 68.20 | 16.13 | PK |
| 15780 | 43.49 | 12.21 | V | 55.70 | 73.98 | 18.28 | PK |
| 15780 | 29.60 | 12.21 | V | 41.81 | 53.98 | 12.17 | AV |
| 10520 | 44.44 | 8.33 | H | 52.77 | 68.20 | 15.43 | PK |
| 15780 | 44.97 | 12.21 | H | 57.18 | 73.98 | 16.80 | PK |
| 15780 | 30.86 | 12.21 | H | 43.07 | 53.98 | 10.91 | AV |

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

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10600 | 42.10 | 8.85 | V | 50.95 | 73.98 | 23.03 | PK |
| 10600 | 29.62 | 8.85 | V | 38.47 | 53.98 | 15.51 | AV |
| 15900 | 44.56 | 11.90 | V | 56.46 | 73.98 | 17.52 | PK |
| 15900 | 30.05 | 11.90 | V | 41.95 | 53.98 | 12.03 | AV |
| 10600 | 42.60 | 8.85 | H | 51.45 | 73.98 | 22.53 | PK |
| 10600 | 29.95 | 8.85 | H | 38.80 | 53.98 | 15.18 | AV |
| 15900 | 44.71 | 11.90 | H | 56.61 | 73.98 | 17.37 | PK |
| 15900 | 30.70 | 11.90 | H | 42.60 | 53.98 | 11.38 | AV |

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

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10640 | 42.34 | 9.25 | V | 51.59 | 73.98 | 22.39 | PK |
| 10640 | 29.68 | 9.25 | V | 38.93 | 53.98 | 15.05 | AV |
| 15960 | 44.42 | 10.55 | V | 54.97 | 73.98 | 19.01 | PK |
| 15960 | 30.60 | 10.55 | V | 41.15 | 53.98 | 12.83 | AV |
| 10640 | 42.57 | 9.25 | H | 51.82 | 73.98 | 22.16 | PK |
| 10640 | 29.92 | 9.25 | H | 39.17 | 53.98 | 14.81 | AV |
| 15960 | 44.52 | 10.55 | H | 55.07 | 73.98 | 18.91 | PK |
| 15960 | 30.74 | 10.55 | H | 41.29 | 53.98 | 12.69 | AV |

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

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11000 | 43.60 | 10.23 | V | 53.83 | 73.98 | 20.15 | PK |
| 11000 | 29.73 | 10.23 | V | 39.96 | 53.98 | 14.02 | AV |
| 16500 | 49.58 | 11.62 | V | 61.20 | 68.20 | 7.00 | PK |
| 11000 | 43.12 | 10.23 | H | 53.35 | 73.98 | 20.63 | PK |
| 11000 | 29.58 | 10.23 | H | 39.81 | 53.98 | 14.17 | AV |
| 16500 | 48.81 | 11.62 | H | 60.43 | 68.20 | 7.77 | PK |

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

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11160 | 43.54 | 10.09 | V | 53.63 | 73.98 | 20.35 | PK |
| 11160 | 29.72 | 10.09 | V | 39.81 | 53.98 | 14.17 | AV |
| 16740 | 49.24 | 11.27 | V | 60.51 | 68.20 | 7.69 | PK |
| 11160 | 42.40 | 10.09 | H | 52.49 | 73.98 | 21.49 | PK |
| 11160 | 29.45 | 10.09 | H | 39.54 | 53.98 | 14.44 | AV |
| 16740 | 49.09 | 11.27 | H | 60.36 | 68.20 | 7.84 | PK |

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11440 | 43.29 | 9.39 | V | 52.68 | 73.98 | 21.30 | PK |
| 11440 | 29.79 | 9.39 | V | 39.18 | 53.98 | 14.80 | AV |
| 17160 | 48.51 | 12.91 | V | 61.42 | 68.20 | 6.78 | PK |
| 11440 | 42.51 | 9.39 | H | 51.90 | 73.98 | 22.08 | PK |
| 11440 | 29.56 | 9.39 | H | 38.95 | 53.98 | 15.03 | AV |
| 17160 | 47.56 | 12.91 | H | 60.47 | 68.20 | 7.73 | PK |

Band : UNII 3
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5745MHz
 Channel No. 149 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11490 | 42.72 | 9.31 | V | 52.03 | 73.98 | 21.95 | PK |
| 11490 | 29.15 | 9.31 | V | 38.46 | 53.98 | 15.52 | AV |
| 17235 | 47.68 | 14.49 | V | 62.17 | 68.20 | 6.03 | PK |
| 11490 | 42.92 | 9.31 | H | 52.23 | 73.98 | 21.75 | PK |
| 11490 | 29.20 | 9.31 | H | 38.51 | 53.98 | 15.47 | AV |
| 17235 | 48.35 | 14.49 | H | 62.84 | 68.20 | 5.36 | PK |

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

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11570 | 42.40 | 9.38 | V | 51.78 | 73.98 | 22.20 | PK |
| 11570 | 29.02 | 9.38 | V | 38.40 | 53.98 | 15.58 | AV |
| 17355 | 47.99 | 15.74 | V | 63.73 | 68.20 | 4.47 | PK |
| 11570 | 42.67 | 9.38 | H | 52.05 | 73.98 | 21.93 | PK |
| 11570 | 29.07 | 9.38 | H | 38.45 | 53.98 | 15.53 | AV |
| 17355 | 48.25 | 15.74 | H | 63.99 | 68.20 | 4.21 | PK |

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

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11650 | 42.77 | 8.33 | V | 51.10 | 73.98 | 22.88 | PK |
| 11650 | 29.70 | 8.33 | V | 38.03 | 53.98 | 15.95 | AV |
| 17475 | 47.51 | 16.79 | V | 64.30 | 68.20 | 3.90 | PK |
| 11650 | 43.93 | 8.33 | H | 52.26 | 73.98 | 21.72 | PK |
| 11650 | 29.88 | 8.33 | H | 38.21 | 53.98 | 15.77 | AV |
| 17475 | 47.72 | 16.79 | H | 64.51 | 68.20 | 3.69 | PK |

Report No.: HCT-RF-2001-FI005

Band : UNII 1
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5180 MHz
 Channel No. 36 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10360 | 44.29 | 6.89 | V | 51.18 | 68.20 | 17.02 | PK |
| 15540 | 44.86 | 12.57 | V | 57.43 | 73.98 | 16.55 | PK |
| 15540 | 31.61 | 12.57 | V | 44.18 | 53.98 | 9.80 | AV |
| 10360 | 45.11 | 6.89 | H | 52.00 | 68.20 | 16.20 | PK |
| 15540 | 45.26 | 12.57 | H | 57.83 | 73.98 | 16.15 | PK |
| 15540 | 31.79 | 12.57 | H | 44.36 | 53.98 | 9.62 | AV |

Band : UNII 1
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5200 MHz
 Channel No. 40 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10400 | 44.28 | 6.94 | V | 51.22 | 68.20 | 16.98 | PK |
| 15600 | 44.60 | 11.47 | V | 56.07 | 73.98 | 17.91 | PK |
| 15600 | 31.20 | 11.47 | V | 42.67 | 53.98 | 11.31 | AV |
| 10400 | 45.04 | 6.94 | H | 51.98 | 68.20 | 16.22 | PK |
| 15600 | 45.18 | 11.47 | H | 56.65 | 73.98 | 17.33 | PK |
| 15600 | 31.42 | 11.47 | H | 42.89 | 53.98 | 11.09 | AV |

Band : UNII 1
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5240 MHz
 Channel No. 48 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10480 | 42.93 | 7.65 | V | 50.58 | 68.20 | 17.62 | PK |
| 15720 | 44.33 | 11.66 | V | 55.99 | 73.98 | 17.99 | PK |
| 15720 | 30.46 | 11.66 | V | 42.12 | 53.98 | 11.86 | AV |
| 10480 | 43.40 | 7.65 | H | 51.05 | 68.20 | 17.15 | PK |
| 15720 | 44.37 | 11.66 | H | 56.03 | 73.98 | 17.95 | PK |
| 15720 | 30.61 | 11.66 | H | 42.27 | 53.98 | 11.71 | AV |

Band : UNII 2A
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5260 MHz
 Channel No. 52 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10520 | 43.18 | 8.33 | V | 51.51 | 68.20 | 16.69 | PK |
| 15780 | 41.61 | 12.21 | V | 53.82 | 73.98 | 20.16 | PK |
| 15780 | 29.70 | 12.21 | V | 41.91 | 53.98 | 12.07 | AV |
| 10520 | 44.59 | 8.33 | H | 52.92 | 68.20 | 15.28 | PK |
| 15780 | 43.28 | 12.21 | H | 55.49 | 73.98 | 18.49 | PK |
| 15780 | 29.89 | 12.21 | H | 42.10 | 53.98 | 11.88 | AV |

Report No.: HCT-RF-2001-FI005

Band : UNII 2A
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5300 MHz
 Channel No. 60 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10600 | 42.97 | 8.85 | V | 51.82 | 73.98 | 22.16 | PK |
| 10600 | 30.33 | 8.85 | V | 39.18 | 53.98 | 14.80 | AV |
| 15900 | 44.08 | 11.90 | V | 55.98 | 73.98 | 18.00 | PK |
| 15900 | 30.58 | 11.90 | V | 42.48 | 53.98 | 11.50 | AV |
| 10600 | 44.52 | 8.85 | H | 53.37 | 73.98 | 20.61 | PK |
| 10600 | 30.58 | 8.85 | H | 39.43 | 53.98 | 14.55 | AV |
| 15900 | 45.08 | 11.90 | H | 56.98 | 73.98 | 17.00 | PK |
| 15900 | 30.94 | 11.90 | H | 42.84 | 53.98 | 11.14 | AV |

Band : UNII 2A
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10640 | 43.65 | 9.25 | V | 52.90 | 73.98 | 21.08 | PK |
| 10640 | 29.64 | 9.25 | V | 38.89 | 53.98 | 15.09 | AV |
| 15960 | 44.00 | 10.55 | V | 54.55 | 73.98 | 19.43 | PK |
| 15960 | 30.55 | 10.55 | V | 41.10 | 53.98 | 12.88 | AV |
| 10640 | 43.81 | 9.25 | H | 53.06 | 73.98 | 20.92 | PK |
| 10640 | 29.96 | 9.25 | H | 39.21 | 53.98 | 14.77 | AV |
| 15960 | 44.63 | 10.55 | H | 55.18 | 73.98 | 18.80 | PK |
| 15960 | 30.81 | 10.55 | H | 41.36 | 53.98 | 12.62 | AV |

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5500 MHz
 Channel No. 100 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11000 | 43.05 | 10.23 | V | 53.28 | 73.98 | 20.70 | PK |
| 11000 | 29.73 | 10.23 | V | 39.96 | 53.98 | 14.02 | AV |
| 16500 | 48.10 | 11.62 | V | 59.72 | 68.20 | 8.48 | PK |
| 11000 | 42.80 | 10.23 | H | 53.03 | 73.98 | 20.95 | PK |
| 11000 | 29.37 | 10.23 | H | 39.60 | 53.98 | 14.38 | AV |
| 16500 | 46.97 | 11.62 | H | 58.59 | 68.20 | 9.61 | PK |

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5580 MHz
 Channel No. 116 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11160 | 42.97 | 10.09 | V | 53.06 | 73.98 | 20.92 | PK |
| 11160 | 29.52 | 10.09 | V | 39.61 | 53.98 | 14.37 | AV |
| 16740 | 49.09 | 11.27 | V | 60.36 | 68.20 | 7.84 | PK |
| 11160 | 42.53 | 10.09 | H | 52.62 | 73.98 | 21.36 | PK |
| 11160 | 29.30 | 10.09 | H | 39.39 | 53.98 | 14.59 | AV |
| 16740 | 48.14 | 11.27 | H | 59.41 | 68.20 | 8.79 | PK |

Band : UNII 2C
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11440 | 42.79 | 9.39 | V | 52.18 | 73.98 | 21.80 | PK |
| 11440 | 29.42 | 9.39 | V | 38.81 | 53.98 | 15.17 | AV |
| 17160 | 47.82 | 12.91 | V | 60.73 | 68.20 | 7.47 | PK |
| 11440 | 42.10 | 9.39 | H | 51.49 | 73.98 | 22.49 | PK |
| 11440 | 29.28 | 9.39 | H | 38.67 | 53.98 | 15.31 | AV |
| 17160 | 47.26 | 12.91 | H | 60.17 | 68.20 | 8.03 | PK |

Band : UNII 3
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5745MHz
 Channel No. 149 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11490 | 42.07 | 9.31 | V | 51.38 | 73.98 | 22.60 | PK |
| 11490 | 29.10 | 9.31 | V | 38.41 | 53.98 | 15.57 | AV |
| 17235 | 47.65 | 14.49 | V | 62.14 | 68.20 | 6.06 | PK |
| 11490 | 42.47 | 9.31 | H | 51.78 | 73.98 | 22.20 | PK |
| 11490 | 29.26 | 9.31 | H | 38.57 | 53.98 | 15.41 | AV |
| 17235 | 48.84 | 14.49 | H | 63.33 | 68.20 | 4.87 | PK |

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Band : UNII 3
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5785 MHz
 Channel No. 157 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|--------------------------------|----------------------|-------------------|-------------------|----------------|---------------------|
| 11570 | 42.65 | 9.38 | V | 52.03 | 73.98 | 21.95 | PK |
| 11570 | 28.97 | 9.38 | V | 38.35 | 53.98 | 15.63 | AV |
| 17355 | 46.10 | 15.74 | V | 61.84 | 68.20 | 6.36 | PK |
| 11570 | 42.68 | 9.38 | H | 52.06 | 73.98 | 21.92 | PK |
| 11570 | 29.16 | 9.38 | H | 38.54 | 53.98 | 15.44 | AV |
| 17355 | 46.80 | 15.74 | H | 62.54 | 68.20 | 5.66 | PK |

Band : UNII 3
 Operation Mode: 802.11 n(HT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5825 MHz
 Channel No. 165 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|--------------------------------|----------------------|-------------------|-------------------|----------------|---------------------|
| 11650 | 43.78 | 8.33 | V | 52.11 | 73.98 | 21.87 | PK |
| 11650 | 30.42 | 8.33 | V | 38.75 | 53.98 | 15.23 | AV |
| 17475 | 46.81 | 16.79 | V | 63.60 | 68.20 | 4.60 | PK |
| 11650 | 44.14 | 8.33 | H | 52.47 | 73.98 | 21.51 | PK |
| 11650 | 30.81 | 8.33 | H | 39.14 | 53.98 | 14.84 | AV |
| 17475 | 48.12 | 16.79 | H | 64.91 | 68.20 | 3.29 | PK |

Report No.: HCT-RF-2001-FI005

Band : UNII 1

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5180 MHz

Channel No. 36 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10360 | 43.94 | 6.89 | V | 50.83 | 68.20 | 17.37 | PK |
| 15540 | 44.95 | 12.57 | V | 57.52 | 73.98 | 16.46 | PK |
| 15540 | 31.50 | 12.57 | V | 44.07 | 53.98 | 9.91 | AV |
| 10360 | 44.47 | 6.89 | H | 51.36 | 68.20 | 16.84 | PK |
| 15540 | 45.24 | 12.57 | H | 57.81 | 73.98 | 16.17 | PK |
| 15540 | 31.82 | 12.57 | H | 44.39 | 53.98 | 9.59 | AV |

Band : UNII 1

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5200 MHz

Channel No. 40 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10400 | 44.55 | 6.94 | V | 51.49 | 68.20 | 16.71 | PK |
| 15600 | 44.78 | 11.47 | V | 56.25 | 73.98 | 17.73 | PK |
| 15600 | 31.10 | 11.47 | V | 42.57 | 53.98 | 11.41 | AV |
| 10400 | 44.66 | 6.94 | H | 51.60 | 68.20 | 16.60 | PK |
| 15600 | 45.14 | 11.47 | H | 56.61 | 73.98 | 17.37 | PK |
| 15600 | 31.34 | 11.47 | H | 42.81 | 53.98 | 11.17 | AV |

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Band : UNII 1
Operation Mode: 802.11 ac(VHT20)
Transfer MCS Index: MCS0
Operating Frequency 5240 MHz
Channel No. 48 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10480 | 43.12 | 7.65 | V | 50.77 | 68.20 | 17.43 | PK |
| 15720 | 43.77 | 11.66 | V | 55.43 | 73.98 | 18.55 | PK |
| 15720 | 30.39 | 11.66 | V | 42.05 | 53.98 | 11.93 | AV |
| 10480 | 43.56 | 7.65 | H | 51.21 | 68.20 | 16.99 | PK |
| 15720 | 43.84 | 11.66 | H | 55.50 | 73.98 | 18.48 | PK |
| 15720 | 30.55 | 11.66 | H | 42.21 | 53.98 | 11.77 | AV |

Band : UNII 2A
Operation Mode: 802.11 ac(VHT20)
Transfer MCS Index: MCS0
Operating Frequency 5260MHz
Channel No. 52 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10520 | 43.59 | 8.33 | V | 51.92 | 68.20 | 16.28 | PK |
| 15780 | 42.57 | 12.21 | V | 54.78 | 73.98 | 19.20 | PK |
| 15780 | 29.64 | 12.21 | V | 41.85 | 53.98 | 12.13 | AV |
| 10520 | 43.90 | 8.33 | H | 52.23 | 68.20 | 15.97 | PK |
| 15780 | 43.37 | 12.21 | H | 55.58 | 73.98 | 18.40 | PK |
| 15780 | 29.88 | 12.21 | H | 42.09 | 53.98 | 11.89 | AV |

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5300 MHz
 Channel No. 60 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10600 | 42.56 | 8.85 | V | 51.41 | 73.98 | 22.57 | PK |
| 10600 | 30.32 | 8.85 | V | 39.17 | 53.98 | 14.81 | AV |
| 15900 | 43.11 | 11.90 | V | 55.01 | 73.98 | 18.97 | PK |
| 15900 | 30.65 | 11.90 | V | 42.55 | 53.98 | 11.43 | AV |
| 10600 | 43.92 | 8.85 | H | 52.77 | 73.98 | 21.21 | PK |
| 10600 | 30.52 | 8.85 | H | 39.37 | 53.98 | 14.61 | AV |
| 15900 | 44.09 | 11.90 | H | 55.99 | 73.98 | 17.99 | PK |
| 15900 | 30.78 | 11.90 | H | 42.68 | 53.98 | 11.30 | AV |

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5320 MHz
 Channel No. 64 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10640 | 43.10 | 9.25 | V | 52.35 | 73.98 | 21.63 | PK |
| 10640 | 29.81 | 9.25 | V | 39.06 | 53.98 | 14.92 | AV |
| 15960 | 43.49 | 10.55 | V | 54.04 | 73.98 | 19.94 | PK |
| 15960 | 30.54 | 10.55 | V | 41.09 | 53.98 | 12.89 | AV |
| 10640 | 43.63 | 9.25 | H | 52.88 | 73.98 | 21.10 | PK |
| 10640 | 29.92 | 9.25 | H | 39.17 | 53.98 | 14.81 | AV |
| 15960 | 44.31 | 10.55 | H | 54.86 | 73.98 | 19.12 | PK |
| 15960 | 30.93 | 10.55 | H | 41.48 | 53.98 | 12.50 | AV |

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Band : UNII 2C

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5500 MHz

Channel No. 100 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-----------------------------|-------------------|----------------|----------------|-------------|------------------|
| 11000 | 44.49 | 10.23 | V | 54.72 | 73.98 | 19.26 | PK |
| 11000 | 29.75 | 10.23 | V | 39.98 | 53.98 | 14.00 | AV |
| 16500 | 48.04 | 11.62 | V | 59.66 | 68.20 | 8.54 | PK |
| 11000 | 43.75 | 10.23 | H | 53.98 | 73.98 | 20.00 | PK |
| 11000 | 29.63 | 10.23 | H | 39.86 | 53.98 | 14.12 | AV |
| 16500 | 47.44 | 11.62 | H | 59.06 | 68.20 | 9.14 | PK |

Band : UNII 2C

Operation Mode: 802.11 ac(VHT20)

Transfer MCS Index: MCS0

Operating Frequency 5580 MHz

Channel No. 116 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-----------------------------|-------------------|----------------|----------------|-------------|------------------|
| 11160 | 44.07 | 10.09 | V | 54.16 | 73.98 | 19.82 | PK |
| 11160 | 29.69 | 10.09 | V | 39.78 | 53.98 | 14.20 | AV |
| 16740 | 49.61 | 11.27 | V | 60.88 | 68.20 | 7.32 | PK |
| 11160 | 44.02 | 10.09 | H | 54.11 | 73.98 | 19.87 | PK |
| 11160 | 29.45 | 10.09 | H | 39.54 | 53.98 | 14.44 | AV |
| 16740 | 48.53 | 11.27 | H | 59.80 | 68.20 | 8.40 | PK |

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|--------------------------------|----------------------|-------------------|-------------------|----------------|---------------------|
| 11440 | 43.13 | 9.39 | V | 52.52 | 73.98 | 21.46 | PK |
| 11440 | 29.45 | 9.39 | V | 38.84 | 53.98 | 15.14 | AV |
| 17160 | 48.45 | 12.91 | V | 61.36 | 68.20 | 6.84 | PK |
| 11440 | 42.89 | 9.39 | H | 52.28 | 73.98 | 21.70 | PK |
| 11440 | 29.31 | 9.39 | H | 38.70 | 53.98 | 15.28 | AV |
| 17160 | 47.35 | 12.91 | H | 60.26 | 68.20 | 7.94 | PK |

Band : UNII 3
 Operation Mode: 802.11 ac(VHT20)
 Transfer MCS Index: MCS0
 Operating Frequency 5745MHz
 Channel No. 149 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|--------------------------------|----------------------|-------------------|-------------------|----------------|---------------------|
| 11490 | 42.69 | 9.31 | V | 52.00 | 73.98 | 21.98 | PK |
| 11490 | 28.90 | 9.31 | V | 38.21 | 53.98 | 15.77 | AV |
| 17235 | 46.66 | 14.49 | V | 61.15 | 68.20 | 7.05 | PK |
| 11490 | 43.44 | 9.31 | H | 52.75 | 73.98 | 21.23 | PK |
| 11490 | 29.45 | 9.31 | H | 38.76 | 53.98 | 15.22 | AV |
| 17235 | 47.34 | 14.49 | H | 61.83 | 68.20 | 6.37 | PK |

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Band : UNII 3
Operation Mode: 802.11 ac(VHT20)
Transfer MCS Index: MCS0
Operating Frequency 5785 MHz
Channel No. 157 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11570 | 41.94 | 9.38 | V | 51.32 | 73.98 | 22.66 | PK |
| 11570 | 28.89 | 9.38 | V | 38.27 | 53.98 | 15.71 | AV |
| 17355 | 46.46 | 15.74 | V | 62.20 | 68.20 | 6.00 | PK |
| 11570 | 42.80 | 9.38 | H | 52.18 | 73.98 | 21.80 | PK |
| 11570 | 28.97 | 9.38 | H | 38.35 | 53.98 | 15.63 | AV |
| 17355 | 47.83 | 15.74 | H | 63.57 | 68.20 | 4.63 | PK |

Band : UNII 3
Operation Mode: 802.11 ac(VHT20)
Transfer MCS Index: MCS0
Operating Frequency 5825 MHz
Channel No. 165 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11650 | 42.60 | 8.33 | V | 50.93 | 73.98 | 23.05 | PK |
| 11650 | 30.50 | 8.33 | V | 38.83 | 53.98 | 15.15 | AV |
| 17475 | 47.59 | 16.79 | V | 64.38 | 68.20 | 3.82 | PK |
| 11650 | 43.38 | 8.33 | H | 51.71 | 73.98 | 22.27 | PK |
| 11650 | 30.66 | 8.33 | H | 38.99 | 53.98 | 14.99 | AV |
| 17475 | 48.28 | 16.79 | H | 65.07 | 68.20 | 3.13 | PK |

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Band : UNII 1
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5190 MHz
 Channel No. 38 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10380 | 44.69 | 6.54 | V | 51.23 | 68.20 | 16.97 | PK |
| 15570 | 44.62 | 11.95 | V | 56.57 | 73.98 | 17.41 | PK |
| 15570 | 32.08 | 11.95 | V | 44.03 | 53.98 | 9.95 | AV |
| 10380 | 45.11 | 6.54 | H | 51.65 | 68.20 | 16.55 | PK |
| 15570 | 45.14 | 11.95 | H | 57.09 | 73.98 | 16.89 | PK |
| 15570 | 32.25 | 11.95 | H | 44.20 | 53.98 | 9.78 | AV |

Band : UNII 1
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5230 MHz
 Channel No. 46 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10460 | 43.14 | 7.97 | V | 51.11 | 68.20 | 17.09 | PK |
| 15690 | 44.28 | 12.00 | V | 56.28 | 73.98 | 17.70 | PK |
| 15690 | 31.15 | 12.00 | V | 43.15 | 53.98 | 10.83 | AV |
| 10460 | 43.67 | 7.97 | H | 51.64 | 68.20 | 16.56 | PK |
| 15690 | 44.52 | 12.00 | H | 56.52 | 73.98 | 17.46 | PK |
| 15690 | 31.32 | 12.00 | H | 43.32 | 53.98 | 10.66 | AV |

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Band : UNII 2A

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5270 MHz

Channel No. 54 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-----------------------------|-------------------|----------------|----------------|-------------|------------------|
| 10540 | 44.47 | 8.71 | V | 53.18 | 68.20 | 15.02 | PK |
| 15810 | 42.19 | 11.51 | V | 53.70 | 73.98 | 20.28 | PK |
| 15810 | 30.05 | 11.51 | V | 41.56 | 53.98 | 12.42 | AV |
| 10540 | 44.67 | 8.71 | H | 53.38 | 68.20 | 14.82 | PK |
| 15810 | 42.75 | 11.51 | H | 54.26 | 73.98 | 19.72 | PK |
| 15810 | 30.12 | 11.51 | H | 41.63 | 53.98 | 12.35 | AV |

Band : UNII 2A

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5310 MHz

Channel No. 62 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-----------------------------|-------------------|----------------|----------------|-------------|------------------|
| 10620 | 43.24 | 8.62 | V | 51.86 | 73.98 | 22.12 | PK |
| 10620 | 30.55 | 8.62 | V | 39.17 | 53.98 | 14.81 | AV |
| 15930 | 43.79 | 10.63 | V | 54.42 | 73.98 | 19.56 | PK |
| 15930 | 31.02 | 10.63 | V | 41.65 | 53.98 | 12.33 | AV |
| 10620 | 44.41 | 8.62 | H | 53.03 | 73.98 | 20.95 | PK |
| 10620 | 30.86 | 8.62 | H | 39.48 | 53.98 | 14.50 | AV |
| 15930 | 43.92 | 10.63 | H | 54.55 | 73.98 | 19.43 | PK |
| 15930 | 31.25 | 10.63 | H | 41.88 | 53.98 | 12.10 | AV |

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Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5510 MHz
 Channel No. 102 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11020 | 43.21 | 9.89 | V | 53.10 | 73.98 | 20.88 | PK |
| 11020 | 30.34 | 9.89 | V | 40.23 | 53.98 | 13.75 | AV |
| 16530 | 45.48 | 11.59 | V | 57.07 | 68.20 | 11.13 | PK |
| 11020 | 42.59 | 9.89 | H | 52.48 | 73.98 | 21.50 | PK |
| 11020 | 30.29 | 9.89 | H | 40.18 | 53.98 | 13.80 | AV |
| 16530 | 44.60 | 11.59 | H | 56.19 | 68.20 | 12.01 | PK |

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5550 MHz
 Channel No. 110 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11100 | 41.91 | 9.73 | V | 51.64 | 73.98 | 22.34 | PK |
| 11100 | 29.34 | 9.73 | V | 39.07 | 53.98 | 14.91 | AV |
| 16650 | 46.44 | 11.12 | V | 57.56 | 68.20 | 10.64 | PK |
| 11100 | 41.18 | 9.73 | H | 50.91 | 73.98 | 23.07 | PK |
| 11100 | 29.29 | 9.73 | H | 39.02 | 53.98 | 14.96 | AV |
| 16650 | 44.98 | 11.12 | H | 56.10 | 68.20 | 12.10 | PK |

Band : UNII 2C
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11420 | 43.33 | 9.18 | V | 52.51 | 73.98 | 21.47 | PK |
| 11420 | 29.92 | 9.18 | V | 39.10 | 53.98 | 14.88 | AV |
| 17130 | 44.95 | 13.20 | V | 58.15 | 68.20 | 10.05 | PK |
| 11420 | 42.88 | 9.18 | H | 52.06 | 73.98 | 21.92 | PK |
| 11420 | 29.71 | 9.18 | H | 38.89 | 53.98 | 15.09 | AV |
| 17130 | 44.38 | 13.20 | H | 57.58 | 68.20 | 10.62 | PK |

Band : UNII 3
 Operation Mode: 802.11 n(HT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5755 MHz
 Channel No. 151 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11510 | 42.81 | 9.19 | V | 52.00 | 73.98 | 21.98 | PK |
| 11510 | 29.82 | 9.19 | V | 39.01 | 53.98 | 14.97 | AV |
| 17265 | 45.09 | 14.32 | V | 59.41 | 68.20 | 8.79 | PK |
| 11510 | 43.38 | 9.19 | H | 52.57 | 73.98 | 21.41 | PK |
| 11510 | 29.99 | 9.19 | H | 39.18 | 53.98 | 14.80 | AV |
| 17265 | 45.74 | 14.32 | H | 60.06 | 68.20 | 8.14 | PK |

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Band : UNII 3

Operation Mode: 802.11 n(HT40)

Transfer MCS Index: MCS0

Operating Frequency 5795 MHz

Channel No. 159 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11590 | 42.55 | 9.46 | V | 52.01 | 73.98 | 21.97 | PK |
| 11590 | 29.59 | 9.46 | V | 39.05 | 53.98 | 14.93 | AV |
| 17385 | 44.80 | 15.37 | V | 60.17 | 68.20 | 8.03 | PK |
| 11590 | 42.95 | 9.46 | H | 52.41 | 73.98 | 21.57 | PK |
| 11590 | 29.78 | 9.46 | H | 39.24 | 53.98 | 14.74 | AV |
| 17385 | 45.20 | 15.37 | H | 60.57 | 68.20 | 7.63 | PK |

Band : UNII 1

Operation Mode: 802.11 ac(VHT40)

Transfer MCS Index: MCS0

Operating Frequency 5190 MHz

Channel No. 38 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10380 | 44.39 | 6.54 | V | 50.93 | 68.20 | 17.27 | PK |
| 15570 | 45.22 | 11.95 | V | 57.17 | 73.98 | 16.81 | PK |
| 15570 | 31.77 | 11.95 | V | 43.72 | 53.98 | 10.26 | AV |
| 10380 | 44.83 | 6.54 | H | 51.37 | 68.20 | 16.83 | PK |
| 15570 | 45.55 | 11.95 | H | 57.50 | 73.98 | 16.48 | PK |
| 15570 | 32.02 | 11.95 | H | 43.97 | 53.98 | 10.01 | AV |

Report No.: HCT-RF-2001-FI005

Band : UNII 1
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5230 MHz
 Channel No. 46 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10460 | 43.05 | 7.97 | V | 51.02 | 68.20 | 17.18 | PK |
| 15690 | 43.96 | 12.00 | V | 55.96 | 73.98 | 18.02 | PK |
| 15690 | 31.51 | 12.00 | V | 43.51 | 53.98 | 10.47 | AV |
| 10460 | 43.63 | 7.97 | H | 51.60 | 68.20 | 16.60 | PK |
| 15690 | 44.69 | 12.00 | H | 56.69 | 73.98 | 17.29 | PK |
| 15690 | 31.67 | 12.00 | H | 43.67 | 53.98 | 10.31 | AV |

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5270 MHz
 Channel No. 54 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10540 | 43.75 | 8.71 | V | 52.46 | 68.20 | 15.74 | PK |
| 15810 | 42.94 | 11.51 | V | 54.45 | 73.98 | 19.53 | PK |
| 15810 | 30.01 | 11.51 | V | 41.52 | 53.98 | 12.46 | AV |
| 10540 | 44.62 | 8.71 | H | 53.33 | 68.20 | 14.87 | PK |
| 15810 | 43.10 | 11.51 | H | 54.61 | 73.98 | 19.37 | PK |
| 15810 | 30.25 | 11.51 | H | 41.76 | 53.98 | 12.22 | AV |

Report No.: HCT-RF-2001-FI005

Band : UNII 2A
Operation Mode: 802.11 ac(VHT40)
Transfer MCS Index: MCS0
Operating Frequency 5310 MHz
Channel No. 62 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10620 | 43.23 | 8.62 | V | 51.85 | 73.98 | 22.13 | PK |
| 10620 | 30.15 | 8.62 | V | 38.77 | 53.98 | 15.21 | AV |
| 15930 | 43.92 | 10.63 | V | 54.55 | 73.98 | 19.43 | PK |
| 15930 | 30.61 | 10.63 | V | 41.24 | 53.98 | 12.74 | AV |
| 10620 | 43.57 | 8.62 | H | 52.19 | 73.98 | 21.79 | PK |
| 10620 | 30.44 | 8.62 | H | 39.06 | 53.98 | 14.92 | AV |
| 15930 | 44.14 | 10.63 | H | 54.77 | 73.98 | 19.21 | PK |
| 15930 | 30.68 | 10.63 | H | 41.31 | 53.98 | 12.67 | AV |

Band : UNII 2C
Operation Mode: 802.11 ac(VHT40)
Transfer MCS Index: MCS0
Operating Frequency 5510 MHz
Channel No. 102 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11020 | 43.24 | 9.89 | V | 53.13 | 73.98 | 20.85 | PK |
| 11020 | 30.14 | 9.89 | V | 40.03 | 53.98 | 13.95 | AV |
| 16530 | 46.09 | 11.59 | V | 57.68 | 68.20 | 10.52 | PK |
| 11020 | 42.89 | 9.89 | H | 52.78 | 73.98 | 21.20 | PK |
| 11020 | 30.20 | 9.89 | H | 40.09 | 53.98 | 13.89 | AV |
| 16530 | 45.84 | 11.59 | H | 57.43 | 68.20 | 10.77 | PK |

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5550 MHz
 Channel No. 110 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11000 | 41.92 | 9.73 | V | 51.65 | 73.98 | 22.33 | PK |
| 11000 | 29.42 | 9.73 | V | 39.15 | 53.98 | 14.83 | AV |
| 16500 | 45.41 | 11.12 | V | 56.53 | 68.20 | 11.67 | PK |
| 11000 | 41.43 | 9.73 | H | 51.16 | 73.98 | 22.82 | PK |
| 11000 | 29.23 | 9.73 | H | 38.96 | 53.98 | 15.02 | AV |
| 16500 | 44.74 | 11.12 | H | 55.86 | 68.20 | 12.34 | PK |

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11420 | 43.12 | 9.18 | V | 52.30 | 73.98 | 21.68 | PK |
| 11420 | 30.03 | 9.18 | V | 39.21 | 53.98 | 14.77 | AV |
| 17130 | 45.50 | 13.20 | V | 58.70 | 68.20 | 9.50 | PK |
| 11420 | 42.77 | 9.18 | H | 51.95 | 73.98 | 22.03 | PK |
| 11420 | 29.97 | 9.18 | H | 39.15 | 53.98 | 14.83 | AV |
| 17130 | 44.44 | 13.20 | H | 57.64 | 68.20 | 10.56 | PK |

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Band : UNII 3
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5755 MHz
 Channel No. 151 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L.- A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|-----------------------------|-------------------|----------------|----------------|-------------|------------------|
| 11510 | 42.56 | 9.19 | V | 51.75 | 73.98 | 22.23 | PK |
| 11510 | 29.72 | 9.19 | V | 38.91 | 53.98 | 15.07 | AV |
| 17265 | 44.61 | 14.32 | V | 58.93 | 68.20 | 9.27 | PK |
| 11510 | 42.89 | 9.19 | H | 52.08 | 73.98 | 21.90 | PK |
| 11510 | 30.04 | 9.19 | H | 39.23 | 53.98 | 14.75 | AV |
| 17265 | 45.36 | 14.32 | H | 59.68 | 68.20 | 8.52 | PK |

Band : UNII 3
 Operation Mode: 802.11 ac(VHT40)
 Transfer MCS Index: MCS0
 Operating Frequency 5795 MHz
 Channel No. 159 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L.- -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|------------------------------|-------------------|----------------|----------------|-------------|------------------|
| 11590 | 42.86 | 9.46 | V | 52.32 | 73.98 | 21.66 | PK |
| 11590 | 29.73 | 9.46 | V | 39.19 | 53.98 | 14.79 | AV |
| 17385 | 44.52 | 15.37 | V | 59.89 | 68.20 | 8.31 | PK |
| 11590 | 43.15 | 9.46 | H | 52.61 | 73.98 | 21.37 | PK |
| 11590 | 29.80 | 9.46 | H | 39.26 | 53.98 | 14.72 | AV |
| 17385 | 44.92 | 15.37 | H | 60.29 | 68.20 | 7.91 | PK |

Report No.: HCT-RF-2001-FI005

Band : UNII 1
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5210 MHz
 Channel No. 42 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10420 | 43.72 | 7.88 | V | 51.60 | 68.20 | 16.60 | PK |
| 15630 | 44.31 | 12.05 | V | 56.36 | 73.98 | 17.62 | PK |
| 15630 | 31.45 | 12.05 | V | 43.50 | 53.98 | 10.48 | AV |
| 10420 | 44.23 | 7.88 | H | 52.11 | 68.20 | 16.09 | PK |
| 15630 | 44.73 | 12.05 | H | 56.78 | 73.98 | 17.20 | PK |
| 15630 | 31.83 | 12.05 | H | 43.88 | 53.98 | 10.10 | AV |

Band : UNII 2A
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5290 MHz
 Channel No. 58 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 10580 | 43.36 | 8.83 | V | 52.19 | 68.20 | 16.01 | PK |
| 15870 | 43.79 | 11.15 | V | 54.94 | 73.98 | 19.04 | PK |
| 15870 | 30.83 | 11.15 | V | 41.98 | 53.98 | 12.00 | AV |
| 10580 | 44.14 | 8.83 | H | 52.97 | 68.20 | 15.23 | PK |
| 15870 | 43.93 | 11.15 | H | 55.08 | 73.98 | 18.90 | PK |
| 15870 | 31.15 | 11.15 | H | 42.30 | 53.98 | 11.68 | AV |

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5530 MHz
 Channel No. 106 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11060 | 42.68 | 9.83 | V | 52.51 | 73.98 | 21.47 | PK |
| 11060 | 30.06 | 9.83 | V | 39.89 | 53.98 | 14.09 | AV |
| 16590 | 45.06 | 11.80 | V | 56.86 | 68.20 | 11.34 | PK |
| 11060 | 42.38 | 9.83 | H | 52.21 | 73.98 | 21.77 | PK |
| 11060 | 29.95 | 9.83 | H | 39.78 | 53.98 | 14.20 | AV |
| 16590 | 44.09 | 11.80 | H | 55.89 | 68.20 | 12.31 | PK |

Band : UNII 2C
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5690 MHz
 Channel No. 138 Ch

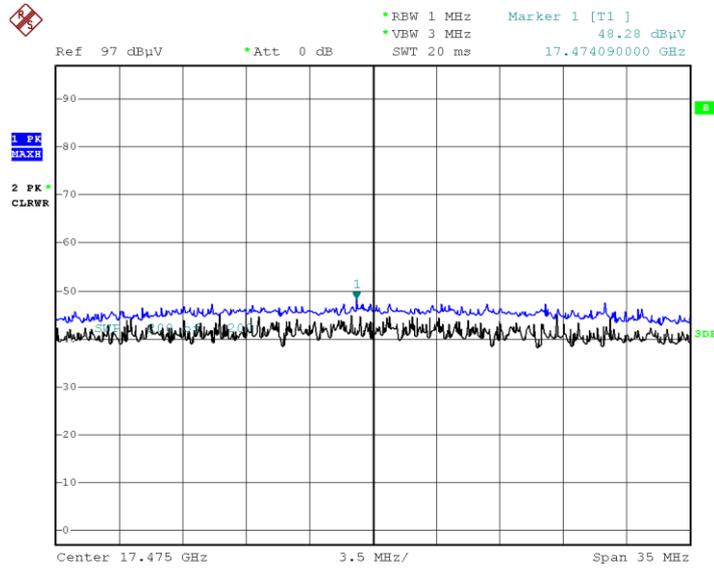
| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|----------------|--------------------------|----------------|----------------|----------------|-------------|------------------|
| 11380 | 43.13 | 9.91 | V | 53.04 | 73.98 | 20.94 | PK |
| 11380 | 30.13 | 9.91 | V | 40.04 | 53.98 | 13.94 | AV |
| 17070 | 43.84 | 12.72 | V | 56.56 | 68.20 | 11.64 | PK |
| 11380 | 42.42 | 9.91 | H | 52.33 | 73.98 | 21.65 | PK |
| 11380 | 29.85 | 9.91 | H | 39.76 | 53.98 | 14.22 | AV |
| 17070 | 43.36 | 12.72 | H | 56.08 | 68.20 | 12.12 | PK |

Band : UNII 3
 Operation Mode: 802.11 ac(VHT80)
 Transfer MCS Index: MCS0
 Operating Frequency 5775 MHz
 Channel No. 155 Ch

| Frequency [MHz] | Reading [dBuV] | A.F.+C.L. -A.G+D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-------------------|--------------------------------|----------------------|-------------------|-------------------|----------------|---------------------|
| 11550 | 41.87 | 8.90 | V | 50.77 | 73.98 | 23.21 | PK |
| 11550 | 29.44 | 8.90 | V | 38.34 | 53.98 | 15.64 | AV |
| 17325 | 44.81 | 15.33 | V | 60.14 | 68.20 | 8.06 | PK |
| 11550 | 42.41 | 8.90 | H | 51.31 | 73.98 | 22.67 | PK |
| 11550 | 29.49 | 8.90 | H | 38.39 | 53.98 | 15.59 | AV |
| 17325 | 45.70 | 15.33 | H | 61.03 | 68.20 | 7.17 | PK |

▣ Test Plots

Peak Reading (802.11a, Ch.165 3rd Harmonic, Z-V)



Date: 6.DEC.2019 12:10:34

Note:

Only the worst case plots for Radiated Spurious Emissions.

10.9 RADIATED RESTRICTED BAND EDGE

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5150 | 54.62 | 5.75 | H | 60.37 | 73.98 | 13.61 | PK |
| 5150 | 40.98 | 5.75 | H | 46.73 | 53.98 | 7.25 | AV |
| 5150 | 55.23 | 5.75 | V | 60.98 | 73.98 | 13.00 | PK |
| 5150 | 41.61 | 5.75 | V | 47.36 | 53.98 | 6.62 | AV |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5350 | 52.40 | 6.66 | H | 59.06 | 73.98 | 14.92 | PK |
| 5350 | 40.78 | 6.66 | H | 47.44 | 53.98 | 6.54 | AV |
| 5350 | 53.55 | 6.66 | V | 60.21 | 73.98 | 13.77 | PK |
| 5350 | 40.97 | 6.66 | V | 47.63 | 53.98 | 6.35 | AV |

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

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. | | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|-----------------|-------------------|-------------------|-------------------|----------------|---------------------|
| | | +D.F. [dB] | ANT. POL [H/V] | | | | |
| 5460 | 50.66 | 6.08 | H | 56.74 | 73.98 | 17.24 | PK |
| 5460 | 37.68 | 6.08 | H | 43.76 | 53.98 | 10.22 | AV |
| 5470 | 50.95 | 6.19 | H | 57.14 | 68.20 | 11.06 | PK |
| 5460 | 51.93 | 6.08 | V | 58.01 | 73.98 | 15.97 | PK |
| 5460 | 38.83 | 6.08 | V | 44.91 | 53.98 | 9.07 | AV |
| 5470 | 52.06 | 6.19 | V | 58.25 | 68.20 | 9.95 | PK |

Band : UNII 2C
 Operation Mode: 802.11 a
 Transfer Rate: 6 Mbps
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. | | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|-----------------|-------------------|-------------------|-------------------|----------------|---------------------|
| | | +D.F. [dB] | ANT. POL [H/V] | | | | |
| 5725 | 51.33 | 7.07 | H | 58.40 | 68.20 | 9.80 | PK |
| 5725 | 50.29 | 7.07 | V | 57.36 | 68.20 | 10.84 | PK |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. | | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|-----------------|-------------------|-------------------|-------------------|----------------|---------------------|
| | | +D.F. [dB] | ANT. POL [H/V] | | | | |
| 5150 | 52.34 | 5.75 | H | 58.09 | 73.98 | 15.89 | PK |
| 5150 | 39.76 | 5.75 | H | 45.51 | 53.98 | 8.47 | AV |
| 5150 | 53.61 | 5.75 | V | 59.36 | 73.98 | 14.62 | PK |
| 5150 | 40.42 | 5.75 | V | 46.17 | 53.98 | 7.81 | AV |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. | | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|-----------------|-------------------|-------------------|-------------------|----------------|---------------------|
| | | +D.F. [dB] | ANT. POL [H/V] | | | | |
| 5350 | 54.29 | 6.66 | H | 60.95 | 73.98 | 13.03 | PK |
| 5350 | 40.43 | 6.66 | H | 47.09 | 53.98 | 6.89 | AV |
| 5350 | 55.51 | 6.66 | V | 62.17 | 73.98 | 11.81 | PK |
| 5350 | 40.56 | 6.66 | V | 47.22 | 53.98 | 6.76 | AV |

Band : UNII 2C
 Operation Mode: 802.11 n_HT20
 Transfer MCS Index: 0
 Operating Frequency 5500 MHz
 Channel No. 100 Ch

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5460 | 52.42 | 6.08 | H | 58.50 | 73.98 | 15.48 | PK |
| 5460 | 38.78 | 6.08 | H | 44.86 | 53.98 | 9.12 | AV |
| 5470 | 53.19 | 6.19 | H | 59.38 | 68.20 | 8.82 | PK |
| 5460 | 53.24 | 6.08 | V | 59.32 | 73.98 | 14.66 | PK |
| 5460 | 39.09 | 6.08 | V | 45.17 | 53.98 | 8.81 | AV |
| 5470 | 53.32 | 6.19 | V | 59.51 | 68.20 | 8.69 | PK |

Band : UNII 2C
 Operation Mode: 802.11 n_HT20
 Transfer MCS Index: 0
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5850 | 51.84 | 7.07 | H | 58.91 | 68.20 | 9.29 | PK |
| 5850 | 50.90 | 7.07 | V | 57.97 | 68.20 | 10.23 | PK |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. | | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|-----------------|-------------------|-------------------|-------------------|----------------|---------------------|
| | | +D.F. [dB] | ANT. POL [H/V] | | | | |
| 5150 | 53.66 | 5.75 | H | 59.41 | 73.98 | 14.57 | PK |
| 5150 | 40.55 | 5.75 | H | 46.3 | 53.98 | 7.68 | AV |
| 5150 | 54.64 | 5.75 | V | 60.39 | 73.98 | 13.59 | PK |
| 5150 | 41.19 | 5.75 | V | 46.94 | 53.98 | 7.04 | AV |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. | | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|-----------------|-------------------|-------------------|-------------------|----------------|---------------------|
| | | +D.F. [dB] | ANT. POL [H/V] | | | | |
| 5350 | 54.93 | 6.66 | H | 61.59 | 73.98 | 12.39 | PK |
| 5350 | 40.23 | 6.66 | H | 46.89 | 53.98 | 7.09 | AV |
| 5350 | 55.36 | 6.66 | V | 62.02 | 73.98 | 11.96 | PK |
| 5350 | 40.46 | 6.66 | V | 47.12 | 53.98 | 6.86 | AV |

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

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5460 | 51.10 | 6.08 | H | 57.18 | 73.98 | 16.80 | PK |
| 5460 | 38.57 | 6.08 | H | 44.65 | 53.98 | 9.33 | AV |
| 5470 | 52.26 | 6.19 | H | 58.45 | 68.20 | 9.75 | PK |
| 5460 | 52.30 | 6.08 | V | 58.38 | 73.98 | 15.60 | PK |
| 5460 | 38.64 | 6.08 | V | 44.72 | 53.98 | 9.26 | AV |
| 5470 | 52.89 | 6.19 | V | 59.08 | 68.20 | 9.12 | PK |

Band : UNII 2C
 Operation Mode: 802.11 ac_VHT20
 Transfer MCS Index: 0
 Operating Frequency 5720 MHz
 Channel No. 144 Ch

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5850 | 51.33 | 7.07 | H | 58.40 | 68.20 | 9.80 | PK |
| 5850 | 50.87 | 7.07 | V | 57.94 | 68.20 | 10.26 | PK |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5150 | 58.74 | 5.75 | H | 64.49 | 73.98 | 9.49 | PK |
| 5150 | 44.61 | 5.75 | H | 50.36 | 53.98 | 3.62 | AV |
| 5150 | 60.44 | 5.75 | V | 66.19 | 73.98 | 7.79 | PK |
| 5150 | 45.68 | 5.75 | V | 51.43 | 53.98 | 2.55 | AV |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5150 | 51.67 | 5.75 | H | 57.42 | 73.98 | 16.56 | PK |
| 5150 | 39.37 | 5.75 | H | 45.12 | 53.98 | 8.86 | AV |
| 5150 | 52.16 | 5.75 | V | 57.91 | 73.98 | 16.07 | PK |
| 5150 | 40.03 | 5.75 | V | 45.78 | 53.98 | 8.20 | AV |

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Band : UNII 1
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5270 MHz
 Channel No. 54 Ch

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5350 | 51.18 | 6.66 | H | 57.84 | 73.98 | 16.14 | PK |
| 5350 | 38.94 | 6.66 | H | 45.6 | 53.98 | 8.38 | AV |
| 5350 | 52.78 | 6.66 | V | 59.44 | 73.98 | 14.54 | PK |
| 5350 | 39.06 | 6.66 | V | 45.72 | 53.98 | 8.26 | AV |

Band : UNII 1
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5310 MHz
 Channel No. 62 Ch

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5350 | 59.67 | 6.66 | H | 66.33 | 73.98 | 7.65 | PK |
| 5350 | 44.71 | 6.66 | H | 51.37 | 53.98 | 2.61 | AV |
| 5350 | 60.07 | 6.66 | V | 66.73 | 73.98 | 7.25 | PK |
| 5350 | 44.82 | 6.66 | V | 51.48 | 53.98 | 2.50 | AV |

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

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|----------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 5460 | 55.03 | 6.08 | H | 61.11 | 73.98 | 12.87 | PK |
| 5460 | 39.95 | 6.08 | H | 46.03 | 53.98 | 7.95 | AV |
| 5470 | 56.28 | 6.19 | H | 62.47 | 68.20 | 5.73 | PK |
| 5460 | 56.06 | 6.08 | V | 62.14 | 73.98 | 11.84 | PK |
| 5460 | 40.18 | 6.08 | V | 46.26 | 53.98 | 7.72 | AV |
| 5470 | 56.87 | 6.19 | V | 63.06 | 68.20 | 5.14 | PK |

Band : UNII 2C
 Operation Mode: 802.11 n_HT40
 Transfer MCS Index: 0
 Operating Frequency 5710 MHz
 Channel No. 142 Ch

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|----------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 5850 | 51.43 | 7.07 | H | 58.50 | 68.20 | 9.70 | PK |
| 5850 | 50.91 | 7.07 | V | 57.98 | 68.20 | 10.22 | PK |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|----------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 5150 | 59.08 | 5.75 | H | 64.83 | 73.98 | 9.15 | PK |
| 5150 | 44.70 | 5.75 | H | 50.45 | 53.98 | 3.53 | AV |
| 5150 | 59.87 | 5.75 | V | 65.62 | 73.98 | 8.36 | PK |
| 5150 | 45.73 | 5.75 | V | 51.48 | 53.98 | 2.50 | AV |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|----------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 5150 | 50.70 | 5.75 | H | 56.45 | 73.98 | 17.53 | PK |
| 5150 | 39.37 | 5.75 | H | 45.12 | 53.98 | 8.86 | AV |
| 5150 | 51.35 | 5.75 | V | 57.1 | 73.98 | 16.88 | PK |
| 5150 | 39.66 | 5.75 | V | 45.41 | 53.98 | 8.57 | AV |

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| | |
|---------------------|-----------------|
| Band : | UNII 1 |
| Operation Mode: | 802.11 ac_VHT40 |
| Transfer MCS Index: | 0 |
| Operating Frequency | 5270 MHz |
| Channel No. | 54 Ch |

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|----------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 5350 | 49.53 | 6.66 | H | 56.19 | 73.98 | 17.79 | PK |
| 5350 | 38.48 | 6.66 | H | 45.14 | 53.98 | 8.84 | AV |
| 5350 | 50.36 | 6.66 | V | 57.02 | 73.98 | 16.96 | PK |
| 5350 | 38.96 | 6.66 | V | 45.62 | 53.98 | 8.36 | AV |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|----------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 5350 | 58.61 | 6.66 | H | 65.27 | 73.98 | 8.71 | PK |
| 5350 | 44.10 | 6.66 | H | 50.76 | 53.98 | 3.22 | AV |
| 5350 | 59.37 | 6.66 | V | 66.03 | 73.98 | 7.95 | PK |
| 5350 | 44.83 | 6.66 | V | 51.49 | 53.98 | 2.49 | AV |

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

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5460 | 56.88 | 6.08 | H | 62.96 | 73.98 | 11.02 | PK |
| 5460 | 40.14 | 6.08 | H | 46.22 | 53.98 | 7.76 | AV |
| 5470 | 56.95 | 6.19 | H | 63.14 | 68.20 | 5.06 | PK |
| 5460 | 56.13 | 6.08 | V | 62.21 | 73.98 | 11.77 | PK |
| 5460 | 39.86 | 6.08 | V | 45.94 | 53.98 | 8.04 | AV |
| 5470 | 56.62 | 6.19 | V | 62.81 | 68.20 | 5.39 | PK |

| | |
|---------------------|-----------------|
| Band : | UNII 2C |
| Operation Mode: | 802.11 ac_VHT40 |
| Transfer MCS Index: | 0 |
| Operating Frequency | 5710 MHz |
| Channel No. | 142 Ch |

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|----------------------------|----------------|----------------|----------------|-------------|------------------|
| 5850 | 51.26 | 7.07 | H | 58.33 | 68.20 | 9.87 | PK |
| 5850 | 50.92 | 7.07 | V | 57.99 | 68.20 | 10.21 | PK |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|----------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 5150 | 60.28 | 5.75 | H | 66.03 | 73.98 | 7.95 | PK |
| 5150 | 45.98 | 5.75 | H | 51.73 | 53.98 | 2.25 | AV |
| 5150 | 60.55 | 5.75 | V | 66.3 | 73.98 | 7.68 | PK |
| 5150 | 46.19 | 5.75 | V | 51.94 | 53.98 | 2.04 | AV |

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

| Frequency [MHz] | Reading dBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|--------------------|-----------------|----------------------------------|-------------------|-------------------|-------------------|----------------|---------------------|
| 5350 | 57.09 | 6.66 | H | 63.75 | 73.98 | 10.23 | PK |
| 5350 | 43.13 | 6.66 | H | 49.79 | 53.98 | 4.19 | AV |
| 5350 | 57.26 | 6.66 | V | 63.92 | 73.98 | 10.06 | PK |
| 5350 | 43.88 | 6.66 | V | 50.54 | 53.98 | 3.44 | AV |

Report No.: HCT-RF-2001-FI005

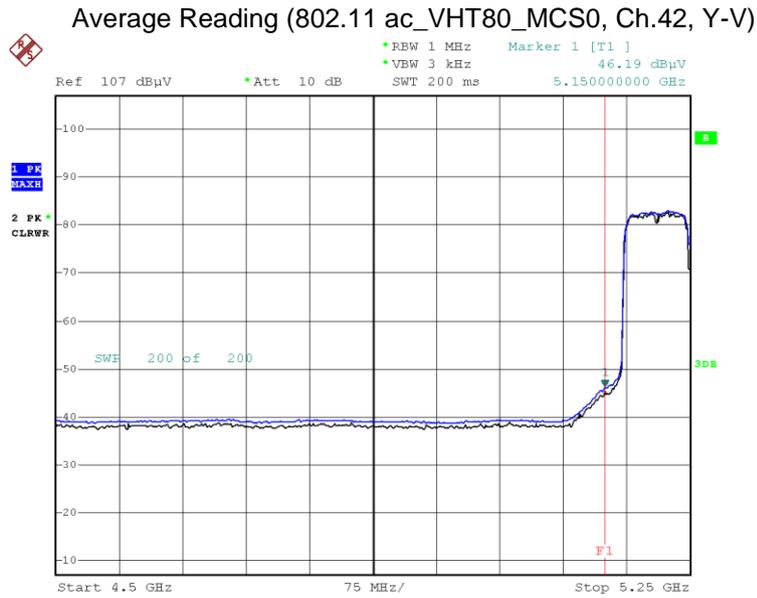
Band : UNII 2C
 Operation Mode: 802.11 ac_VHT80
 Transfer MCS Index: 0
 Operating Frequency 5530 MHz
 Channel No. 106 Ch

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|-------------------------------|----------------|----------------|----------------|-------------|------------------|
| 5460 | 56.50 | 6.08 | H | 62.58 | 73.98 | 11.40 | PK |
| 5460 | 41.00 | 6.08 | H | 47.08 | 53.98 | 6.90 | AV |
| 5470 | 58.91 | 6.19 | H | 65.1 | 68.20 | 3.10 | PK |
| 5460 | 56.95 | 6.08 | V | 63.03 | 73.98 | 10.95 | PK |
| 5460 | 41.18 | 6.08 | V | 47.26 | 53.98 | 6.72 | AV |
| 5470 | 58.34 | 6.19 | V | 64.53 | 68.20 | 3.67 | PK |

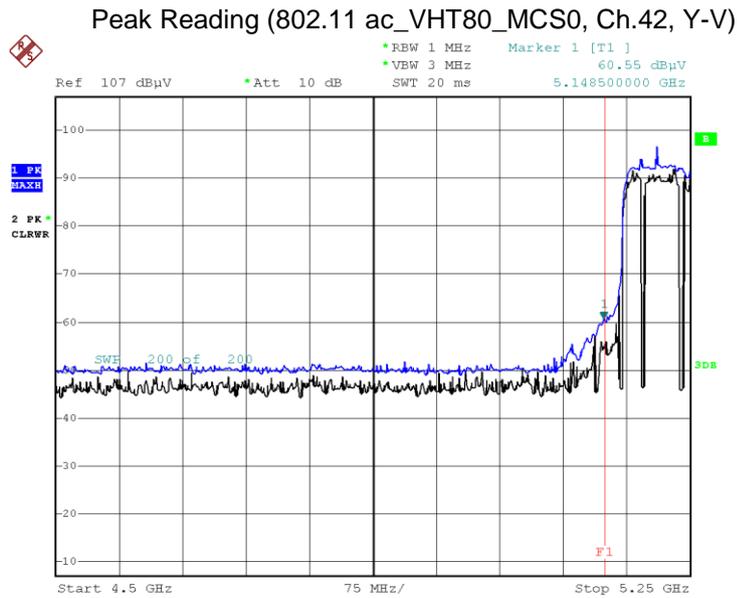
Band : UNII 2C
 Operation Mode: 802.11 ac_VHT80
 Transfer MCS Index: 0
 Operating Frequency 5690 MHz
 Channel No. 138 Ch

| Frequency [MHz] | Reading DBuV | AN.+CL-AMP+ATT. +D.F. [dB] | ANT. POL [H/V] | Total [dBuV/m] | Limit [dBuV/m] | Margin [dB] | Measurement Type |
|-----------------|--------------|-------------------------------|----------------|----------------|----------------|-------------|------------------|
| 5850 | 51.41 | 7.07 | H | 58.48 | 68.20 | 9.72 | PK |
| 5850 | 51.07 | 7.07 | V | 58.14 | 68.20 | 10.06 | PK |

Test Plots(UNII 1, 2A, 2C)



Date: 6.DEC.2019 15:48:34



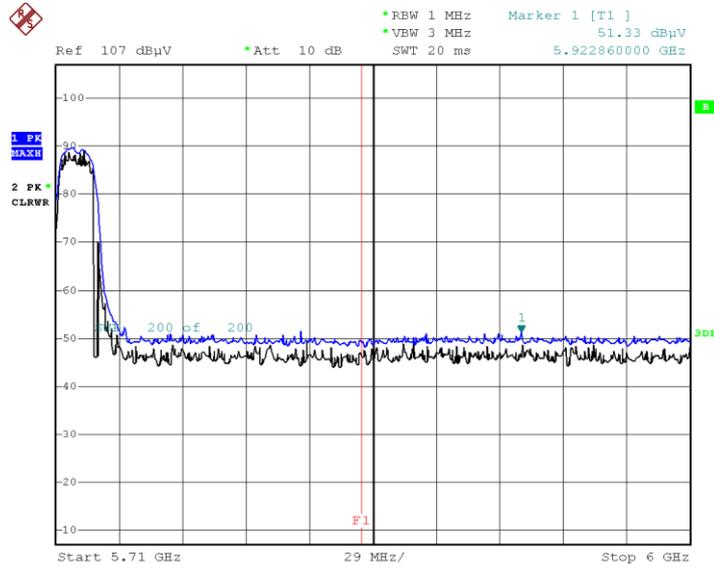
Date: 6.DEC.2019 15:50:36

Note:

Only the worst case plots for Radiated Restricted Band Edge.

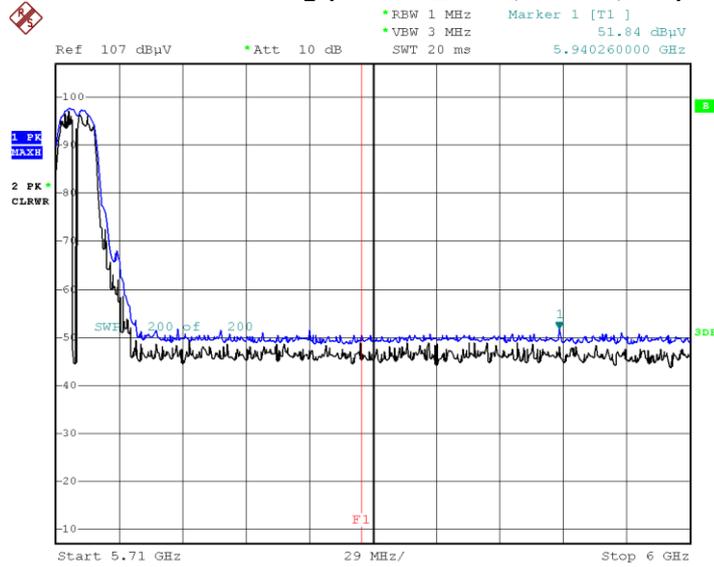
☑ Test Plots(Staraddle Channel)

Peak Reading (802.11a, Ch.144, Y-V)



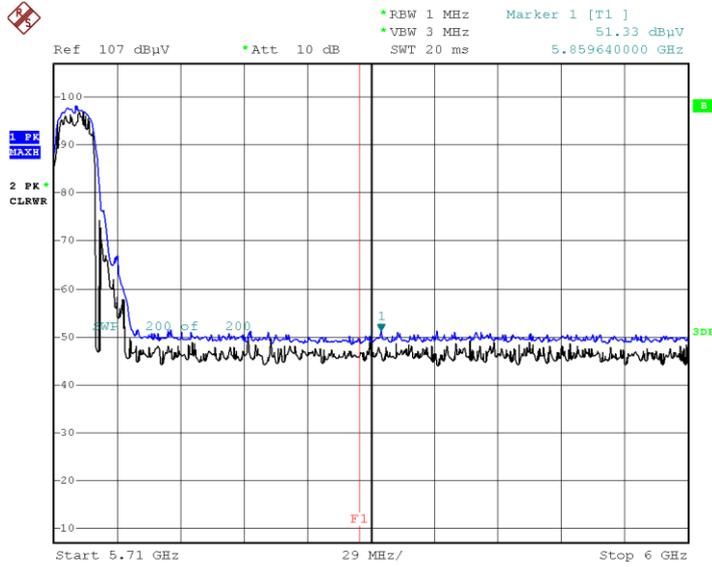
Date: 5.DEC.2019 09:26:01

Peak Reading (802.11n_HT20, Ch.144, Y-V)



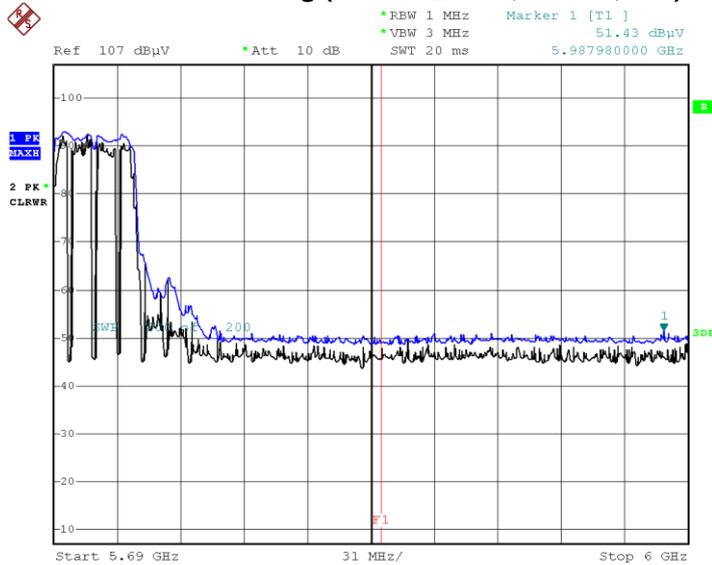
Date: 5.DEC.2019 09:28:04

Peak Reading (802.11ac_VHT20, Ch.144, Y-V)



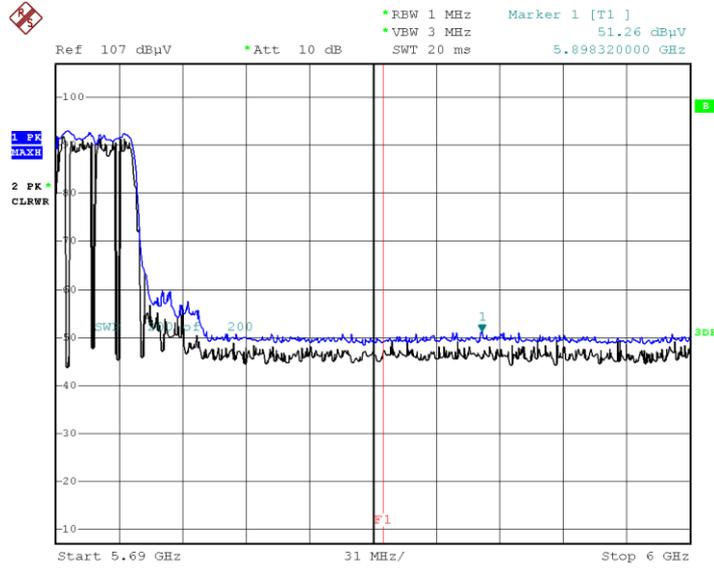
Date: 5.DEC.2019 09:29:50

Peak Reading (802.11n_HT40, Ch.142, Y-V)



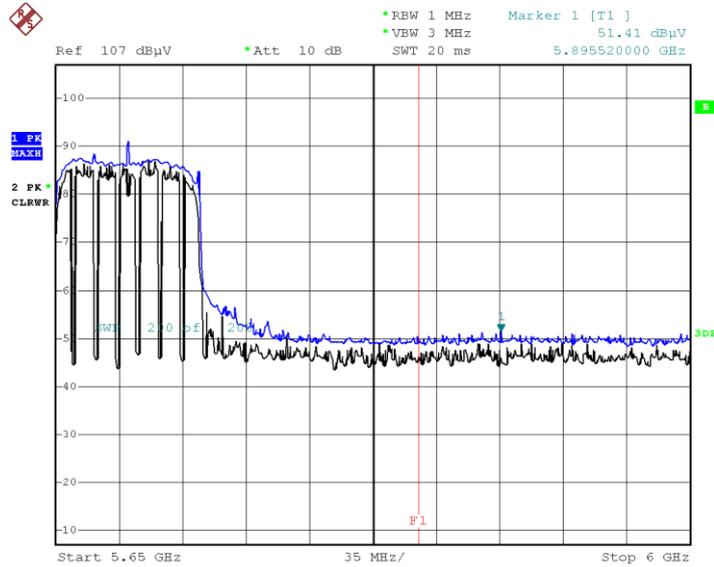
Date: 5.DEC.2019 09:31:24

Peak Reading (802.11ac_VHT40, Ch.142, Y-V)



Date: 5.DEC.2019 09:32:50

Peak Reading (802.11ac_VHT80, Ch.138, Y-V)



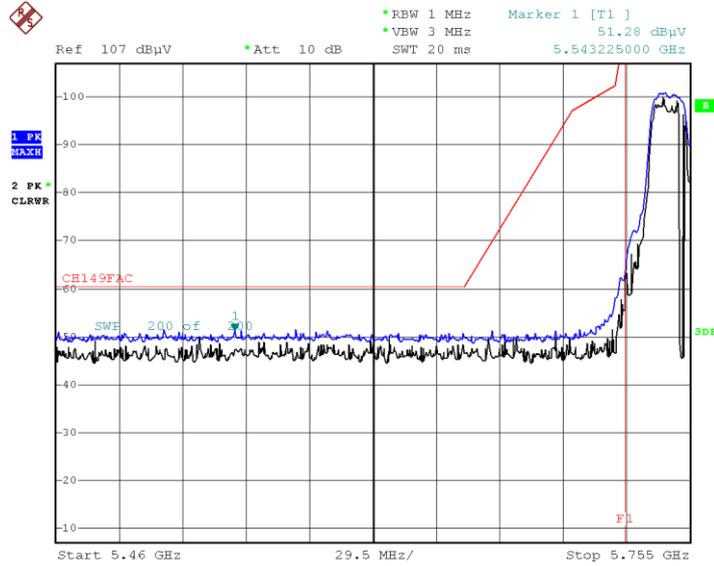
Date: 5.DEC.2019 09:34:32

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)

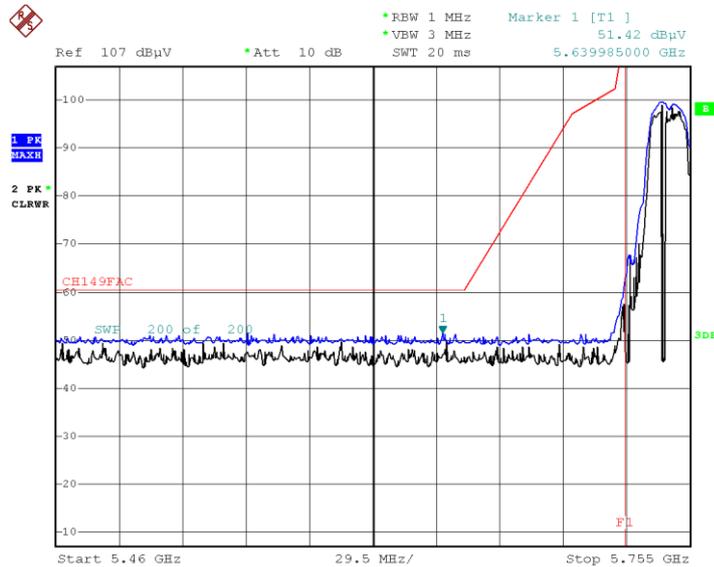
☑ Test Plots(UNII 3)

Peak Reading (802.11a, Ch.149, Y-V)



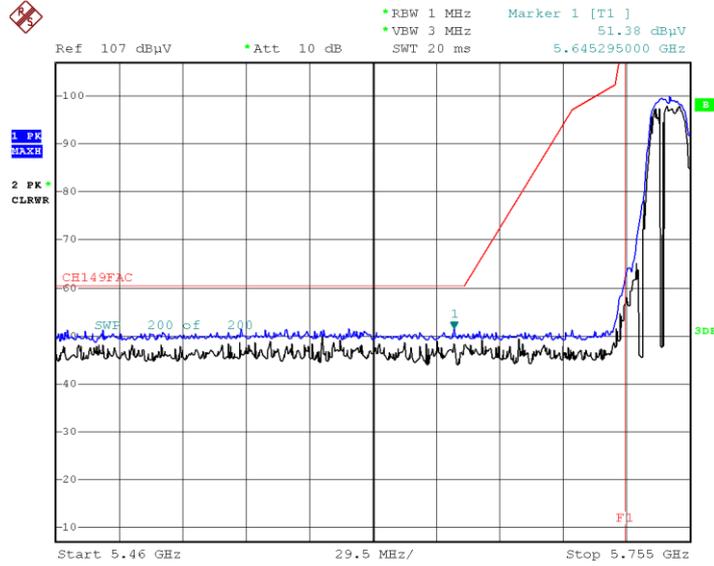
Date: 5.DEC.2019 09:00:21

Peak Reading (802.11n_HT20, Ch.149, Y-V)



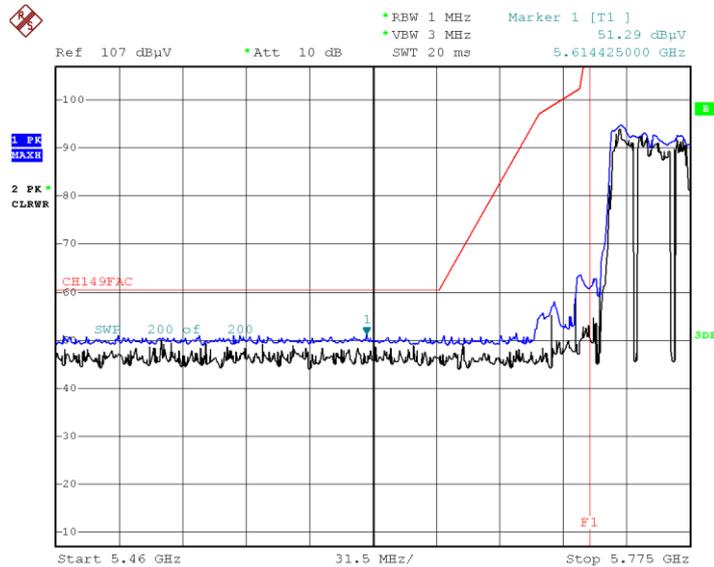
Date: 5.DEC.2019 09:01:38

Peak Reading (802.11ac_VHT20, Ch.149, Y-V)



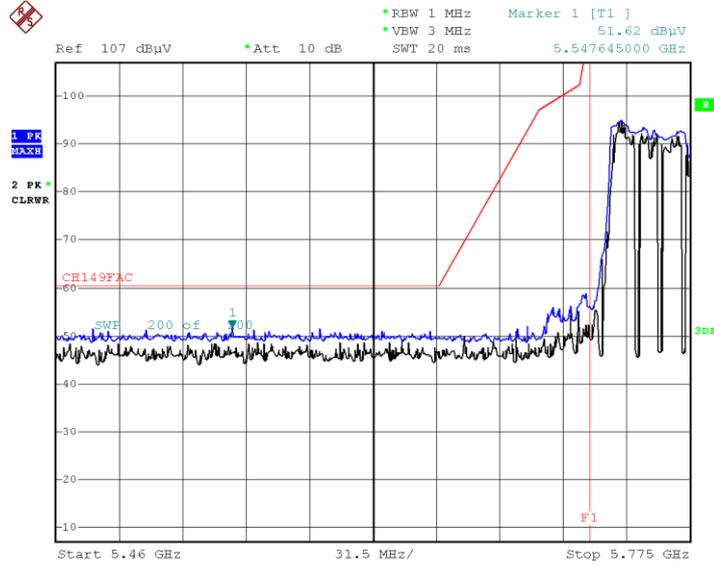
Date: 5.DEC.2019 09:03:15

Peak Reading (802.11n_HT40, Ch.151, Y-V)



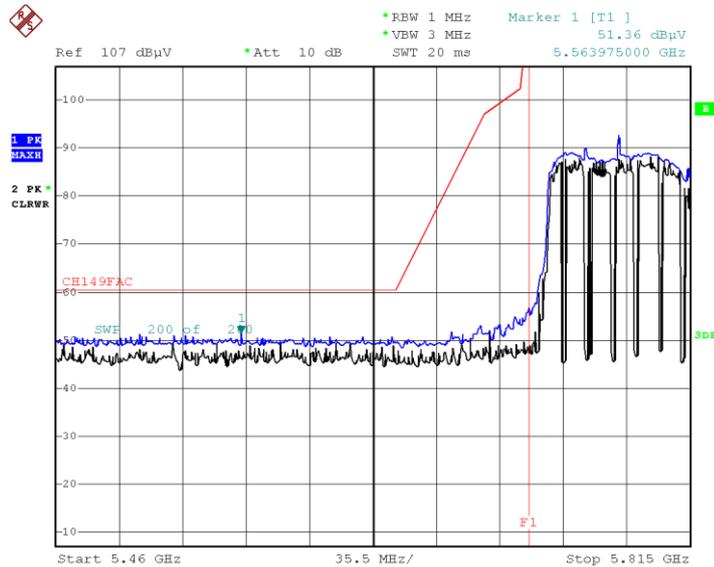
Date: 5.DEC.2019 09:05:00

Peak Reading (802.11ac_VHT40, Ch.151, Y-V)



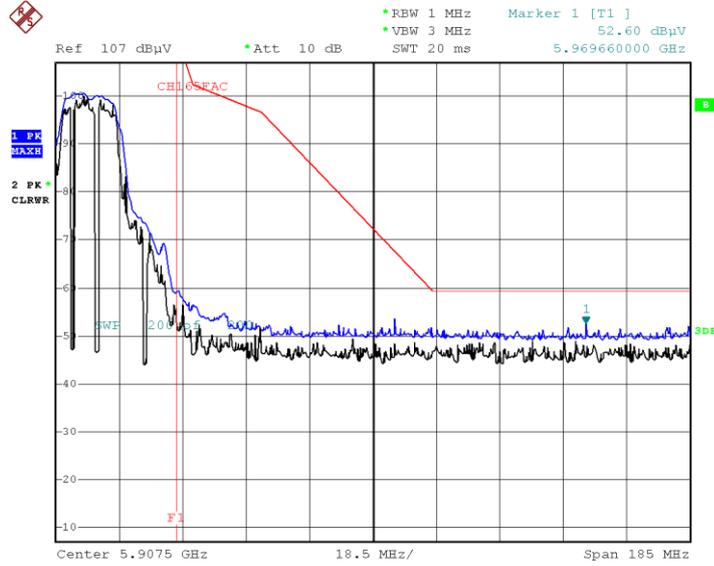
Date: 5.DEC.2019 09:06:07

Peak Reading (802.11ac_VHT80, Ch.155, Y-V)



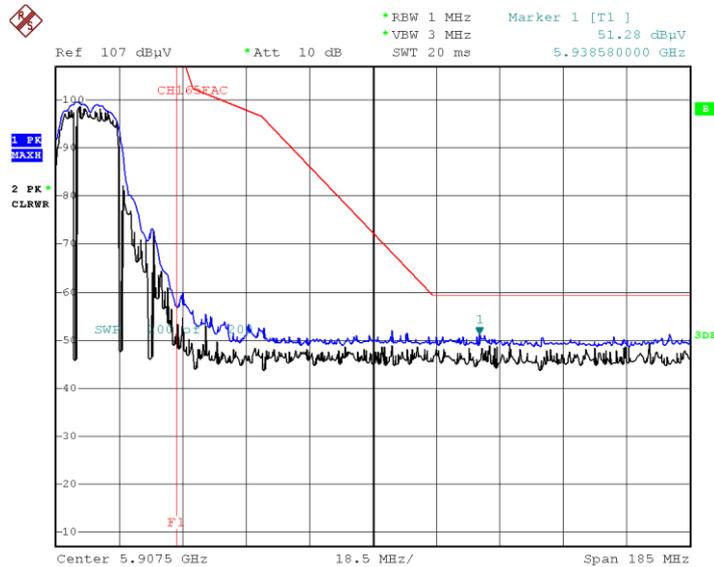
Date: 5.DEC.2019 09:08:13

Peak Reading (802.11a, Ch.165, Y-V)



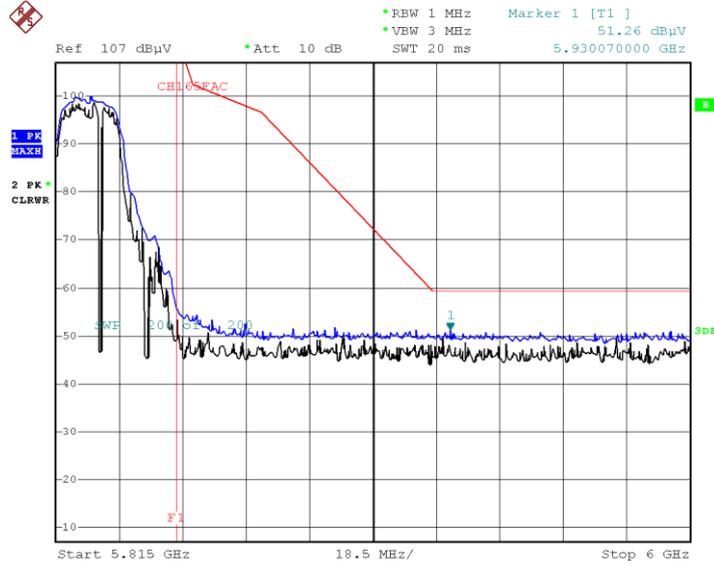
Date: 4.DEC.2019 21:56:29

Peak Reading (802.11n_HT20, Ch.165, Y-V)



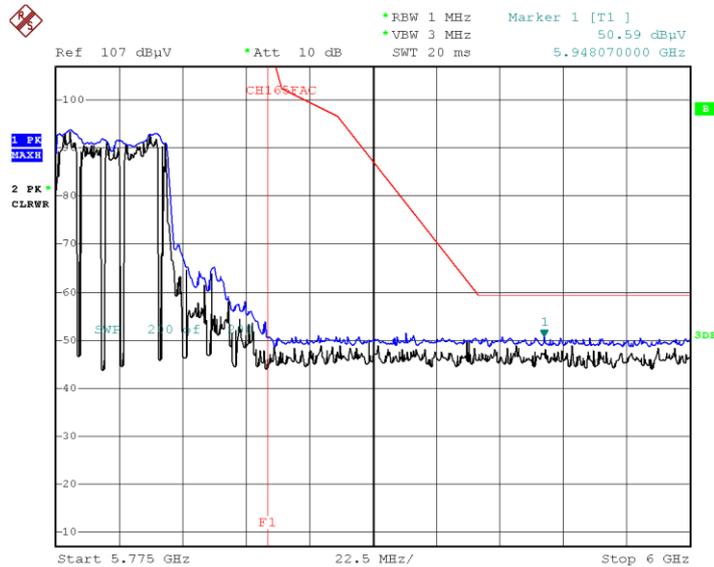
Date: 4.DEC.2019 21:57:52

Peak Reading (802.11ac_VHT20, Ch.165, Y-V)



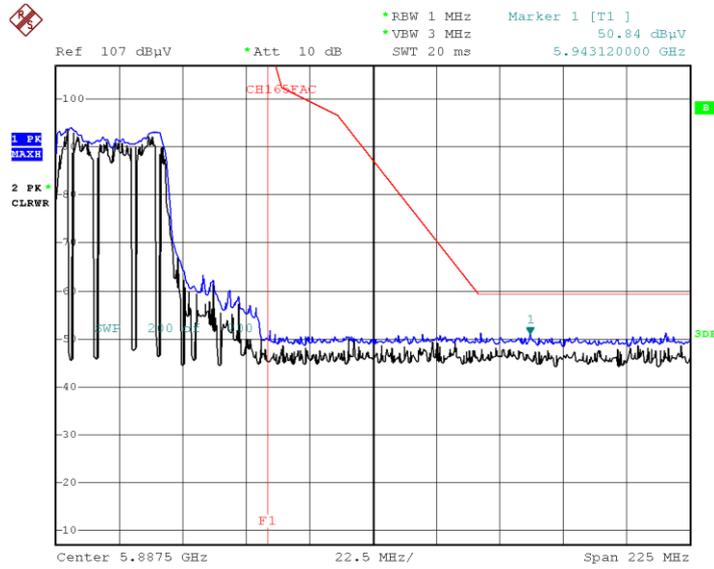
Date: 4.DEC.2019 21:58:52

Peak Reading (802.11n_HT40, Ch.159, Y-V)



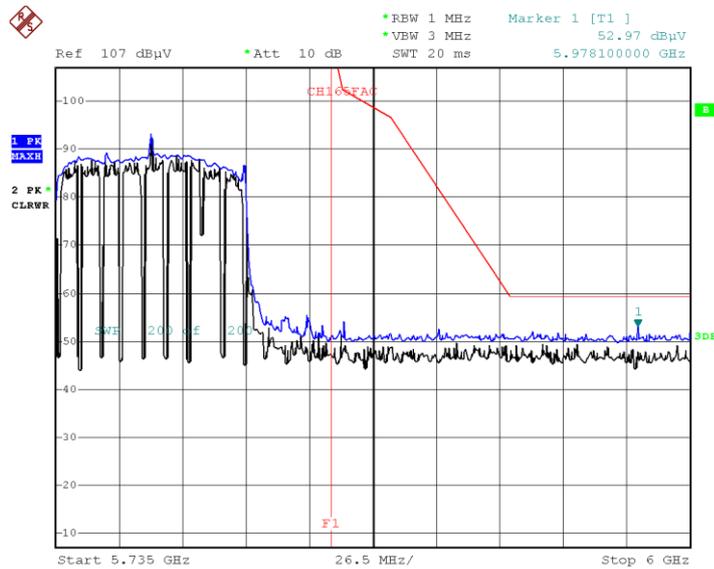
Date: 4.DEC.2019 22:00:22

Peak Reading (802.11ac_VHT40, Ch.159, Y-V)



Date: 4.DEC.2019 22:01:13

Peak Reading (802.11ac_VHT80, Ch.155, Y-V)



Date: 5.DEC.2019 08:30:29

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)

Test

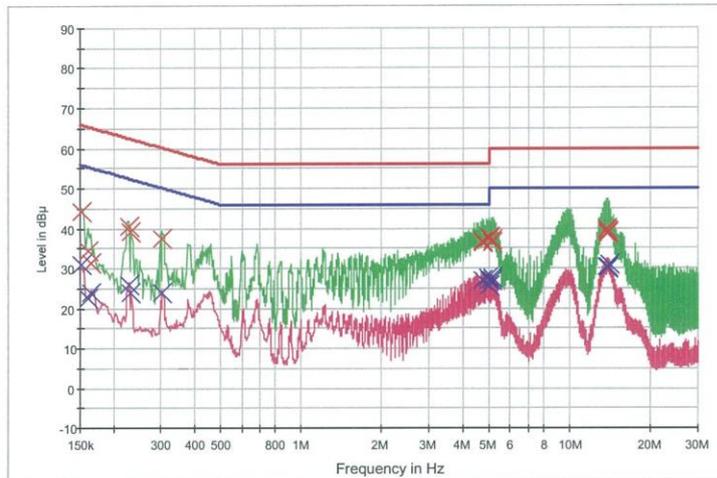
1 / 2

HCT TEST Report

Common Information

EUT: SM-G715FN/DS
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: WLAN_5G_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 (dBμV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBμV) |
|-----------------|------------------|-----------------|--------|------|------------|-------------|--------------|
| 0.152000 | 44.3 | 9.000 | Off | L1 | 9.8 | 21.6 | 65.9 |
| 0.160000 | 34.3 | 9.000 | Off | L1 | 9.8 | 31.2 | 65.5 |
| 0.164000 | 31.5 | 9.000 | Off | L1 | 9.8 | 33.8 | 65.3 |
| 0.228000 | 40.7 | 9.000 | Off | L1 | 9.8 | 21.9 | 62.5 |
| 0.232000 | 39.2 | 9.000 | Off | L1 | 9.8 | 23.2 | 62.4 |
| 0.304000 | 37.4 | 9.000 | Off | L1 | 9.8 | 22.7 | 60.1 |
| 4.730000 | 36.7 | 9.000 | Off | L1 | 10.0 | 19.3 | 56.0 |
| 4.734000 | 36.6 | 9.000 | Off | L1 | 10.0 | 19.4 | 56.0 |
| 5.026000 | 37.7 | 9.000 | Off | L1 | 10.1 | 22.3 | 60.0 |
| 5.032000 | 37.5 | 9.000 | Off | L1 | 10.1 | 22.5 | 60.0 |
| 5.102000 | 37.2 | 9.000 | Off | L1 | 10.1 | 22.8 | 60.0 |
| 5.112000 | 36.5 | 9.000 | Off | L1 | 10.1 | 23.5 | 60.0 |
| 13.644000 | 39.9 | 9.000 | Off | L1 | 10.4 | 20.1 | 60.0 |
| 13.656000 | 39.7 | 9.000 | Off | L1 | 10.4 | 20.3 | 60.0 |
| 13.670000 | 38.7 | 9.000 | Off | L1 | 10.4 | 21.3 | 60.0 |
| 13.728000 | 39.5 | 9.000 | Off | L1 | 10.4 | 20.5 | 60.0 |
| 13.826000 | 38.9 | 9.000 | Off | L1 | 10.5 | 21.1 | 60.0 |
| 13.888000 | 39.2 | 9.000 | Off | L1 | 10.5 | 20.8 | 60.0 |

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Final Result 2

| Frequency (MHz) | CAverage (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.152000 | 30.9 | 9.000 | Off | L1 | 9.8 | 25.0 | 55.9 |
| 0.160000 | 22.5 | 9.000 | Off | L1 | 9.8 | 33.0 | 55.5 |
| 0.164000 | 23.9 | 9.000 | Off | L1 | 9.8 | 31.4 | 55.3 |
| 0.228000 | 26.1 | 9.000 | Off | L1 | 9.8 | 26.4 | 52.5 |
| 0.232000 | 24.0 | 9.000 | Off | L1 | 9.8 | 28.3 | 52.4 |
| 0.304000 | 23.9 | 9.000 | Off | L1 | 9.8 | 26.2 | 50.1 |
| 4.728000 | 27.0 | 9.000 | Off | L1 | 10.0 | 19.0 | 46.0 |
| 4.954000 | 27.5 | 9.000 | Off | L1 | 10.1 | 18.5 | 46.0 |
| 5.020000 | 25.4 | 9.000 | Off | L1 | 10.1 | 24.6 | 50.0 |
| 5.024000 | 26.9 | 9.000 | Off | L1 | 10.1 | 23.1 | 50.0 |
| 5.102000 | 26.9 | 9.000 | Off | L1 | 10.1 | 23.1 | 50.0 |
| 5.112000 | 27.5 | 9.000 | Off | L1 | 10.1 | 22.5 | 50.0 |
| 13.656000 | 30.3 | 9.000 | Off | L1 | 10.4 | 19.7 | 50.0 |
| 13.670000 | 30.2 | 9.000 | Off | L1 | 10.4 | 19.8 | 50.0 |
| 13.728000 | 30.3 | 9.000 | Off | L1 | 10.4 | 19.7 | 50.0 |
| 13.826000 | 30.1 | 9.000 | Off | L1 | 10.5 | 19.9 | 50.0 |
| 13.888000 | 30.2 | 9.000 | Off | L1 | 10.5 | 19.8 | 50.0 |
| 13.950000 | 30.9 | 9.000 | Off | L1 | 10.5 | 19.1 | 50.0 |

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Conducted Emissions (Line 2)

Test

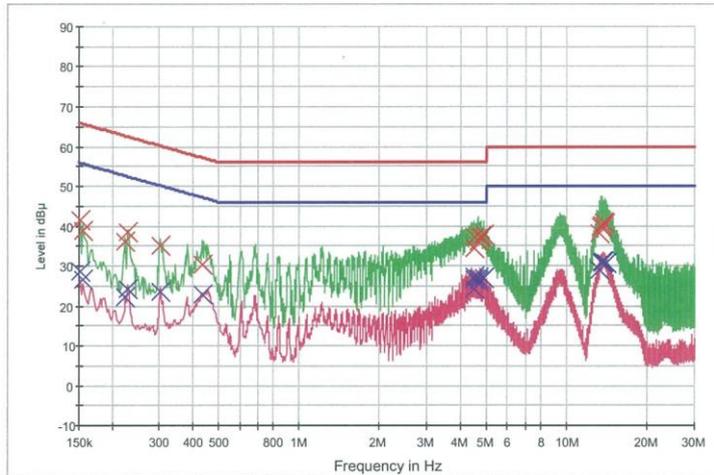
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HCT TEST Report

Common Information

EUT: SM-G715FN/DS
 Manufacturer: SAMSUNG
 Test Site: SHIELD ROOM
 Operating Conditions: WLAN_5G_N

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) |
|-----------------|------------------|-----------------|--------|------|------------|-------------|--------------|
| 0.152000 | 41.5 | 9.000 | Off | N | 9.8 | 24.4 | 65.9 |
| 0.156000 | 38.9 | 9.000 | Off | N | 9.8 | 26.7 | 65.7 |
| 0.224000 | 36.1 | 9.000 | Off | N | 9.8 | 26.6 | 62.7 |
| 0.228000 | 38.6 | 9.000 | Off | N | 9.8 | 24.0 | 62.5 |
| 0.302000 | 35.1 | 9.000 | Off | N | 9.8 | 25.1 | 60.2 |
| 0.434000 | 30.3 | 9.000 | Off | N | 9.8 | 26.8 | 57.2 |
| 4.486000 | 34.4 | 9.000 | Off | N | 10.0 | 21.6 | 56.0 |
| 4.516000 | 37.0 | 9.000 | Off | N | 10.0 | 19.0 | 56.0 |
| 4.646000 | 36.1 | 9.000 | Off | N | 10.0 | 19.9 | 56.0 |
| 4.728000 | 37.1 | 9.000 | Off | N | 10.0 | 18.9 | 56.0 |
| 4.802000 | 37.5 | 9.000 | Off | N | 10.1 | 18.5 | 56.0 |
| 4.876000 | 37.8 | 9.000 | Off | N | 10.1 | 18.2 | 56.0 |
| 13.210000 | 38.2 | 9.000 | Off | N | 10.5 | 21.8 | 60.0 |
| 13.430000 | 40.0 | 9.000 | Off | N | 10.5 | 20.0 | 60.0 |
| 13.566000 | 40.1 | 9.000 | Off | N | 10.5 | 19.9 | 60.0 |
| 13.588000 | 39.6 | 9.000 | Off | N | 10.5 | 20.4 | 60.0 |
| 13.646000 | 40.8 | 9.000 | Off | N | 10.5 | 19.2 | 60.0 |
| 13.870000 | 40.6 | 9.000 | Off | N | 10.5 | 19.4 | 60.0 |

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Final Result 2

| Frequency (MHz) | CAverage (dBuV) | Bandwidth (kHz) | Filter | Line | Corr. (dB) | Margin (dB) | Limit (dBuV) |
|-----------------|-----------------|-----------------|--------|------|------------|-------------|--------------|
| 0.152000 | 28.5 | 9.000 | Off | N | 9.8 | 27.4 | 55.9 |
| 0.156000 | 26.7 | 9.000 | Off | N | 9.8 | 29.0 | 55.7 |
| 0.224000 | 22.1 | 9.000 | Off | N | 9.8 | 30.6 | 52.7 |
| 0.228000 | 24.3 | 9.000 | Off | N | 9.8 | 28.2 | 52.5 |
| 0.304000 | 23.5 | 9.000 | Off | N | 9.8 | 26.6 | 50.1 |
| 0.434000 | 23.0 | 9.000 | Off | N | 9.8 | 24.2 | 47.2 |
| 4.486000 | 24.2 | 9.000 | Off | N | 10.0 | 21.8 | 46.0 |
| 4.500000 | 26.5 | 9.000 | Off | N | 10.0 | 19.5 | 46.0 |
| 4.504000 | 27.4 | 9.000 | Off | N | 10.0 | 18.6 | 46.0 |
| 4.646000 | 26.3 | 9.000 | Off | N | 10.0 | 19.7 | 46.0 |
| 4.652000 | 27.1 | 9.000 | Off | N | 10.0 | 18.9 | 46.0 |
| 4.876000 | 26.9 | 9.000 | Off | N | 10.1 | 19.1 | 46.0 |
| 13.210000 | 28.9 | 9.000 | Off | N | 10.5 | 21.1 | 50.0 |
| 13.566000 | 30.9 | 9.000 | Off | N | 10.5 | 19.1 | 50.0 |
| 13.588000 | 30.7 | 9.000 | Off | N | 10.5 | 19.3 | 50.0 |
| 13.646000 | 30.9 | 9.000 | Off | N | 10.5 | 19.1 | 50.0 |
| 13.726000 | 31.0 | 9.000 | Off | N | 10.5 | 19.0 | 50.0 |
| 13.954000 | 30.8 | 9.000 | Off | N | 10.5 | 19.2 | 50.0 |

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11. LIST OF TEST EQUIPMENT

Conducted Test

| Manufacturer | Model / Equipment | Calibration Date | Calibration Interval | Serial No. |
|-----------------|--|------------------|----------------------|------------|
| Rohde & Schwarz | ENV216 / LISN | 09/11/2019 | Annual | 102245 |
| Rohde & Schwarz | ESCI / Test Receiver | 06/18/2019 | Annual | 100584 |
| EXP | EX-TH064 /Temperature Chamber | 03/12/2019 | Annual | NONE |
| Agilent | N9020A / Signal Analyzer | 05/23/2019 | Annual | MY51110085 |
| Agilent | N9030A / Signal Analyzer | 05/09/2019 | Annual | MY49432108 |
| Agilent | N1911A / Power Meter | 04/10/2019 | Annual | MY45100523 |
| Agilent | N1921A / Power Sensor | 04/10/2019 | Annual | MY52260025 |
| Agilent | 87300B / Directional Coupler | 11/11/2019 | Annual | 3116A03621 |
| Hewlett Packard | 11667B / Power Splitter | 05/24/2019 | Annual | 05001 |
| Hewlett Packard | E3632A / DC Power Supply | 06/18/2019 | Annual | KR75303960 |
| Agilent | 8493C / Attenuator(10 dB) | 07/02/2019 | Annual | 07560 |
| 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 |
| Rohde & Schwarz | CBT / Bluetooth Tester | 05/16/2019 | Annual | 100422 |

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 |
| Rohde & Schwarz | Loop Antenna | 08/23/2018 | Biennial | 1513-175 |
| Schwarzbeck | VULB 9168 / Hybrid Antenna | 08/31/2018 | Biennial | 00895 |
| Schwarzbeck | VULB 9168 / Hybrid Antenna | 08/09/2018 | Biennial | 3368 |
| 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(9 kHz ~ 40 GHz) / Spectrum Analyzer | 07/16/2019 | Annual | 100843 |
| Wainwright Instruments | WHK3.0/18G-10EF / High Pass Filter | 01/03/2019 | Annual | F6 |
| Wainwright Instruments | WHFX7.0/18G-8SS / High Pass Filter | 05/03/2019 | Annual | 29 |
| Wainwright Instruments | WRCJV2400/2483.5-2370/2520-60/12SS / Band Reject Filter | 06/19/2019 | Annual | 2 |
| Wainwright Instruments | WRCJV5100/5850-40/50-8EEK / Band Reject Filter | 01/03/2019 | Annual | 2 |
| Weinschel | 2-3 / Attenuator (3 dB) | 10/08/2019 | Annual | BR0617 |
| H+S | 5910-N-50-010 / Attenuator(10 dB) | 10/29/2019 | Annual | None |
| CERNEX | CBLU1183540B-01 / Power Amplifier | 12/21/2018 | Annual | 25540 |
| CERNEX | CBL06185030 / Power Amplifier | 03/26/2019 | Annual | 28550 |
| CERNEX | CBL18265035 / Power Amplifier | 01/03/2019 | Annual | 22966 |
| CERNEX | CBL26405040 / Power Amplifier | 06/18/2019 | Annual | 25956 |
| TESCOM | TC-3000C / Bluetooth Tester | 03/26/2019 | Annual | 3000C000276 |

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-2001-FI005-P |