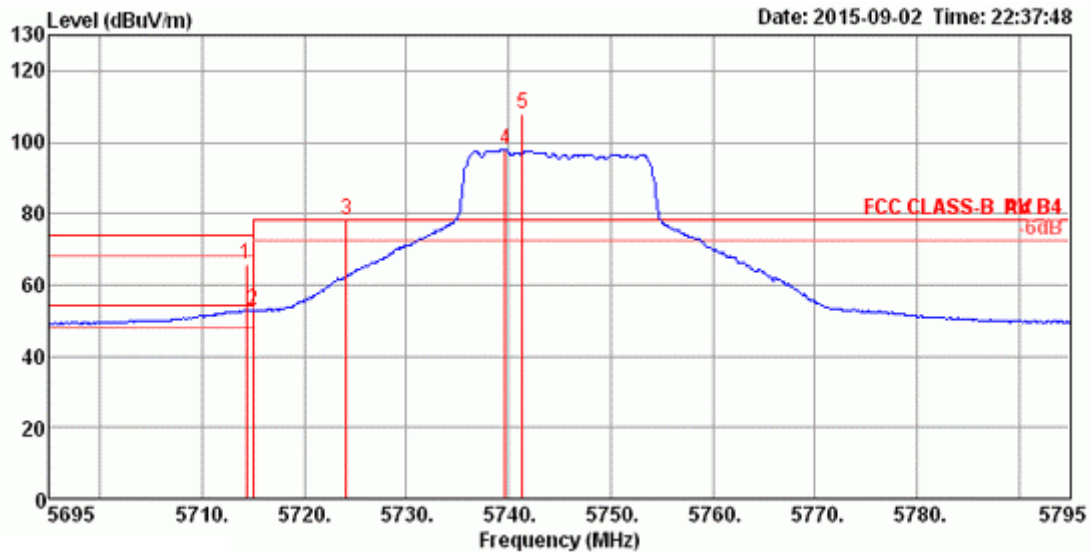


| | | | |
|---------------|----------|----------------|--|
| Temperature | 26°C | Humidity | 57% |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT20 CH 149, 157, 165 / Chain 9 |

Channel 149

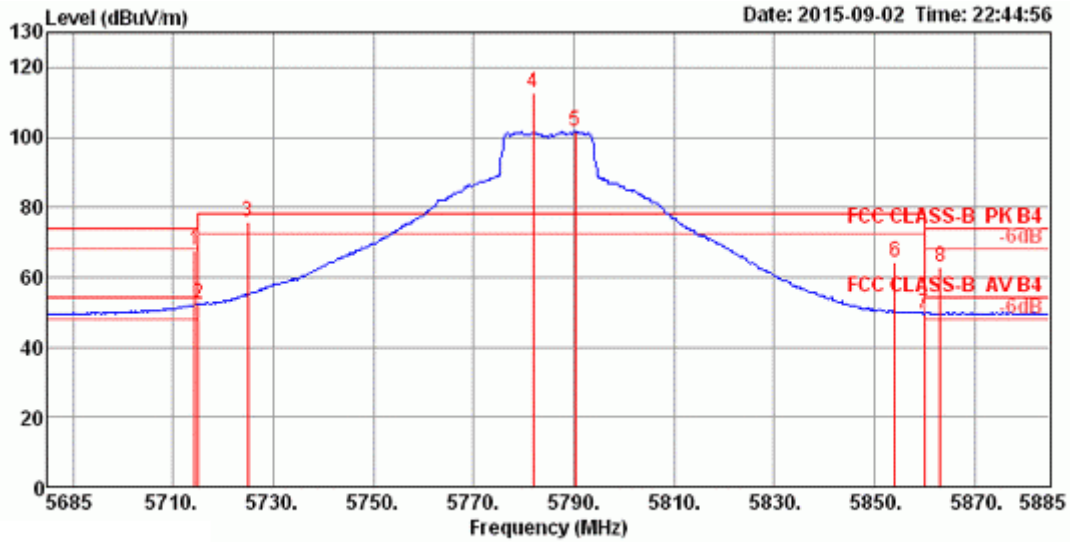


| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|-------|--------------|--------|-------|-------|-----------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5714.28 | 65.81 | 74.00 | -8.19 | 57.69 | 6.83 | 34.42 | 33.13 | 100 | 4 Peak | VERTICAL |
| 2 | 5715.00 | 52.68 | 54.00 | -1.32 | 44.56 | 6.83 | 34.42 | 33.13 | 100 | 4 Average | VERTICAL |
| 3 | 5724.13 | 78.01 | 78.20 | -0.19 | 69.88 | 6.83 | 34.43 | 33.13 | 100 | 4 Peak | VERTICAL |
| 4 | 5739.65 | 97.86 | | | 89.70 | 6.86 | 34.44 | 33.14 | 100 | 4 Average | VERTICAL |
| 5 | 5741.38 | 107.87 | | | 99.71 | 6.86 | 34.44 | 33.14 | 100 | 4 Peak | VERTICAL |

Item 4, 5 are the fundamental frequency at 5745 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Channel 157

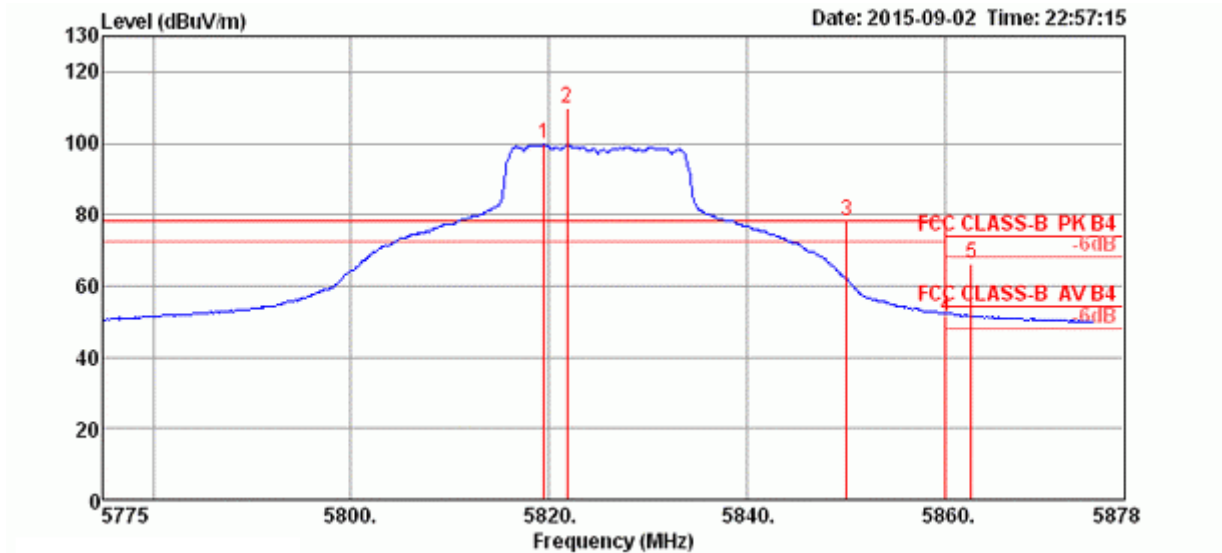


| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|--------|--------|--------------|--------|-------|-------|-------------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5714.42 | 67.40 | 74.00 | -6.60 | 59.28 | 6.83 | 34.42 | 33.13 | 101 | 360 Peak | VERTICAL |
| 2 | 5715.00 | 52.15 | 54.00 | -1.85 | 44.03 | 6.83 | 34.42 | 33.13 | 101 | 360 Average | VERTICAL |
| 3 | 5725.00 | 75.89 | 78.20 | -2.31 | 67.76 | 6.83 | 34.43 | 33.13 | 101 | 360 Peak | VERTICAL |
| 4 | 5781.82 | 112.70 | | | 104.49 | 6.90 | 34.47 | 33.16 | 101 | 360 Peak | VERTICAL |
| 5 | 5790.21 | 101.61 | | | 93.39 | 6.90 | 34.48 | 33.16 | 101 | 360 Average | VERTICAL |
| 6 | 5854.05 | 64.37 | 78.20 | -13.83 | 56.07 | 6.95 | 34.52 | 33.17 | 101 | 360 Peak | VERTICAL |
| 7 | 5860.00 | 49.55 | 54.00 | -4.45 | 41.24 | 6.97 | 34.52 | 33.18 | 101 | 360 Average | VERTICAL |
| 8 | 5863.18 | 62.89 | 74.00 | -11.11 | 54.58 | 6.97 | 34.52 | 33.18 | 101 | 360 Peak | VERTICAL |

Item 4, 5 are the fundamental frequency at 5785 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Channel 165



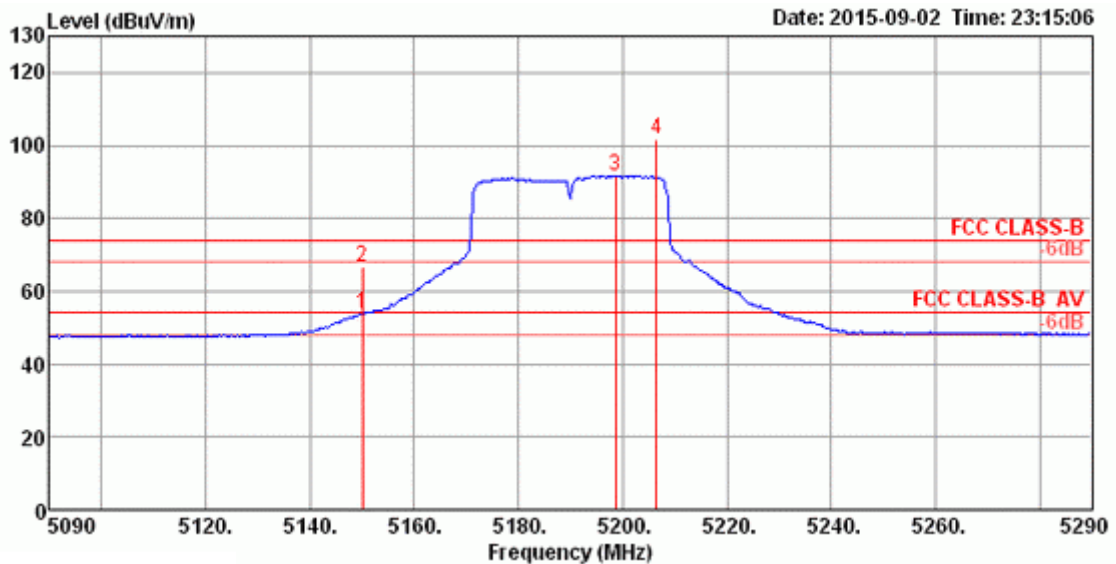
| | Freq | Level | Limit | Over | Read | Cable | Antenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|--------|-------|---------|--------|-------|-------|---------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5819.50 | 99.55 | | | 91.29 | 6.92 | 34.50 | 33.16 | 100 | 2 | Average | VERTICAL |
| 2 | 5821.82 | 109.99 | | | 101.73 | 6.92 | 34.50 | 33.16 | 100 | 2 | Peak | VERTICAL |
| 3 | 5850.00 | 78.18 | 78.20 | -0.02 | 69.89 | 6.95 | 34.51 | 33.17 | 100 | 2 | Peak | VERTICAL |
| 4 | 5860.00 | 51.42 | 54.00 | -2.58 | 43.11 | 6.97 | 34.52 | 33.18 | 100 | 2 | Average | VERTICAL |
| 5 | 5862.60 | 66.16 | 74.00 | -7.84 | 57.85 | 6.97 | 34.52 | 33.18 | 100 | 2 | Peak | VERTICAL |

Item 1, 2 are the fundamental frequency at 5825 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

| | | | |
|---------------|----------|----------------|---|
| Temperature | 26°C | Humidity | 57% |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 38, 46 / Chain 9 |

Channel 38

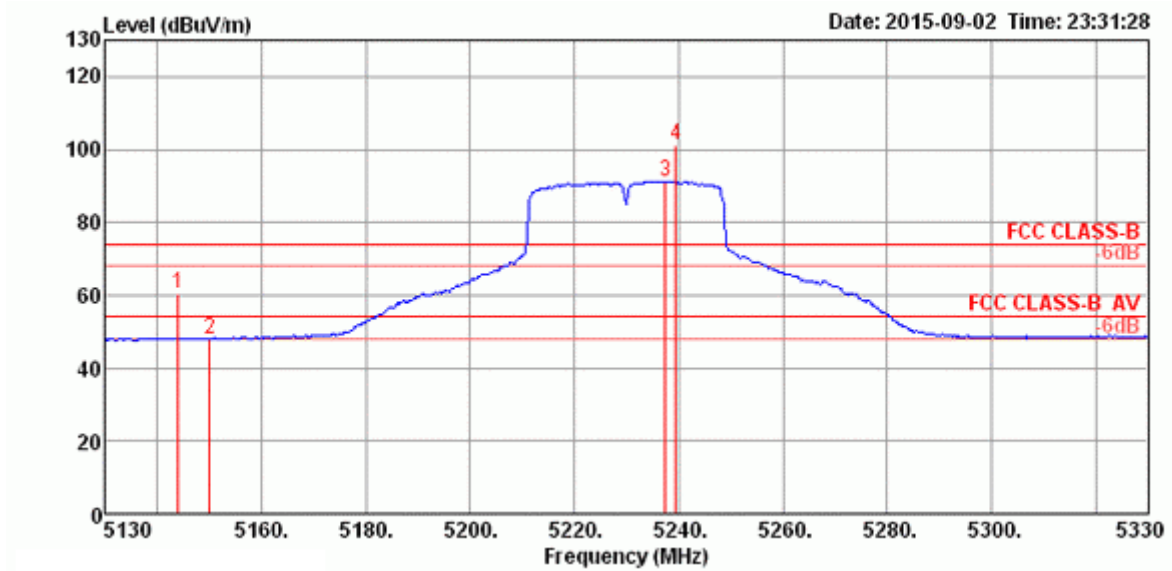


| | Freq | Level | Limit Line | Over Limit | Read Level | Cable Loss | Antenna Factor | Preamp Factor | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|------------|------------|------------|------------|----------------|---------------|-------|-------|---------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5150.00 | 53.76 | 54.00 | -0.24 | 46.86 | 6.21 | 33.74 | 33.05 | 100 | 18 | Average | VERTICAL |
| 2 | 5150.00 | 66.66 | 74.00 | -7.34 | 59.76 | 6.21 | 33.74 | 33.05 | 100 | 18 | Peak | VERTICAL |
| 3 | 5198.68 | 91.61 | | | 84.57 | 6.27 | 33.82 | 33.05 | 100 | 18 | Average | VERTICAL |
| 4 | 5206.50 | 101.63 | | | 94.59 | 6.27 | 33.82 | 33.05 | 100 | 18 | Peak | VERTICAL |

Item 3, 4 are the fundamental frequency at 5190 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Channel 46



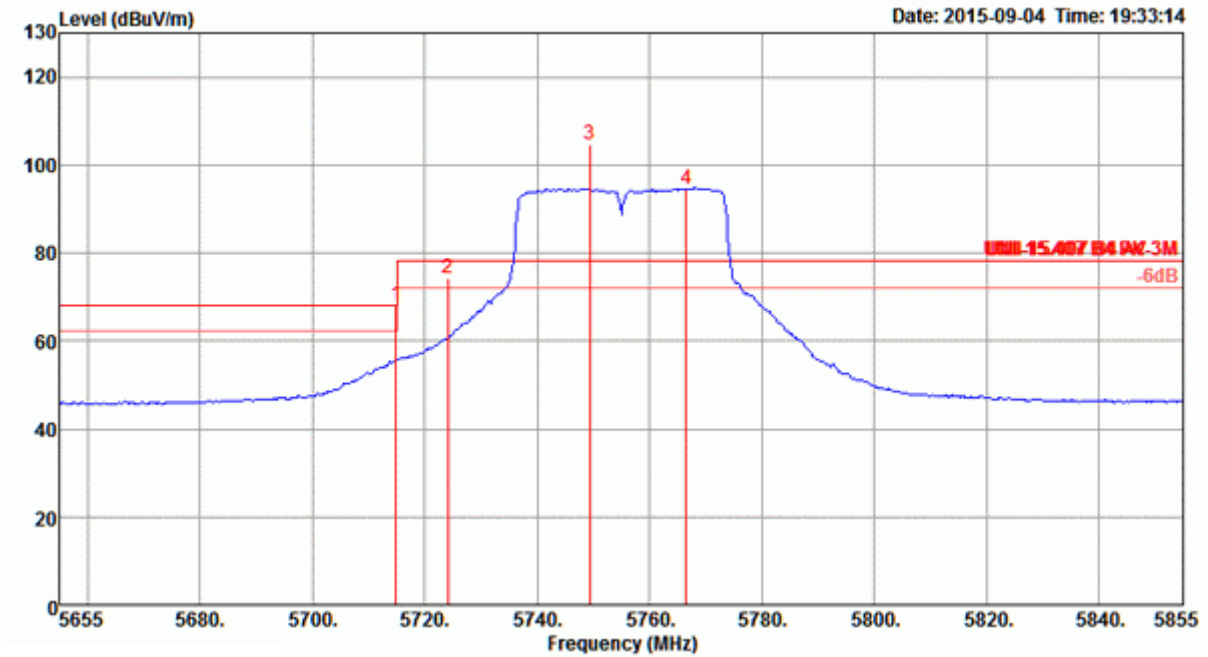
| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|--------|-------|--------------|--------|-------|-------|------------|------------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | |
| 1 | 5143.92 | 60.57 | 74.00 | -13.43 | 53.67 | 6.21 | 33.74 | 33.05 | 100 | 68 Peak | HORIZONTAL |
| 2 | 5150.00 | 48.05 | 54.00 | -5.95 | 41.15 | 6.21 | 33.74 | 33.05 | 100 | 68 Average | HORIZONTAL |
| 3 | 5237.53 | 91.30 | | | 84.18 | 6.30 | 33.87 | 33.05 | 100 | 68 Average | HORIZONTAL |
| 4 | 5239.55 | 101.05 | | | 93.93 | 6.30 | 33.87 | 33.05 | 100 | 68 Peak | HORIZONTAL |

Item 3, 4 are the fundamental frequency at 5230 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

| | | | |
|---------------|----------|----------------|---|
| Temperature | 26°C | Humidity | 57% |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT40 CH 151, 159 / Chain 9 |

Channel 151

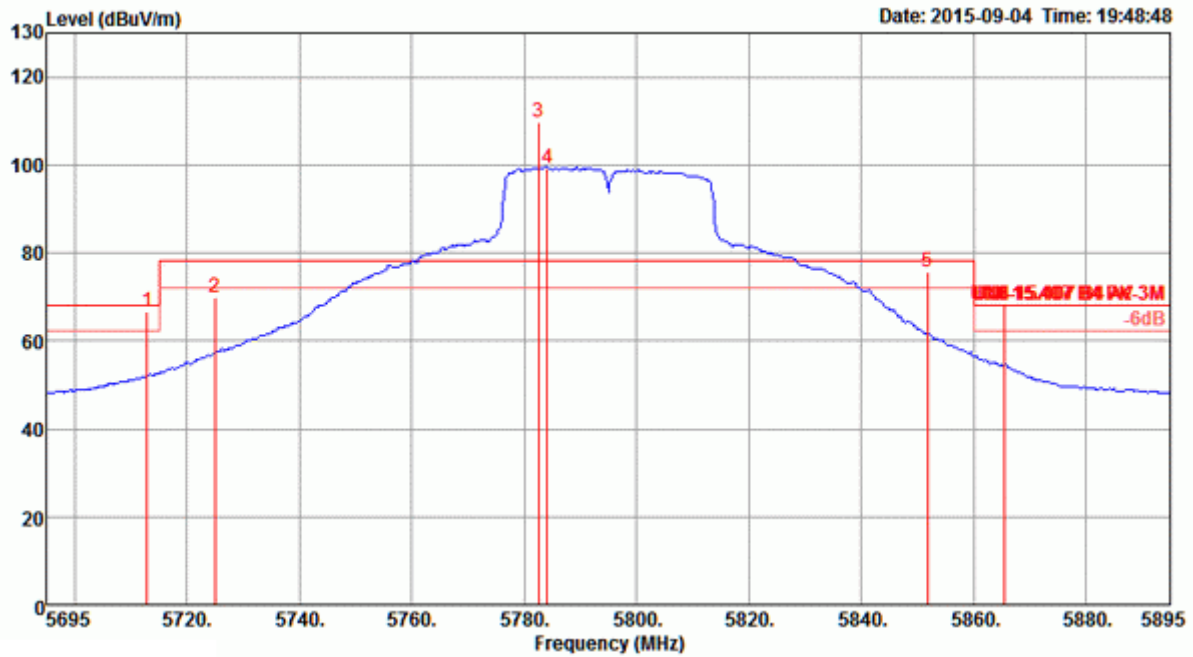


| | Freq | Level | Limit | Over | Read | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|--------|-------|---------|--------|-------|-------|---------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 5715.00 | 68.09 | 68.20 | -0.11 | 63.59 | 4.49 | 34.52 | 34.51 | 358 | 107 | Peak | VERTICAL |
| 2 | 5724.20 | 74.41 | 78.20 | -3.79 | 69.85 | 4.50 | 34.57 | 34.51 | 358 | 107 | Peak | VERTICAL |
| 3 | 5749.40 | 104.79 | | | 100.19 | 4.50 | 34.62 | 34.52 | 358 | 107 | Peak | VERTICAL |
| 4 | 5766.60 | 94.62 | | | 89.96 | 4.51 | 34.68 | 34.53 | 358 | 107 | Average | VERTICAL |

Item 3, 4 are the fundamental frequency at 5755 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Channel 159



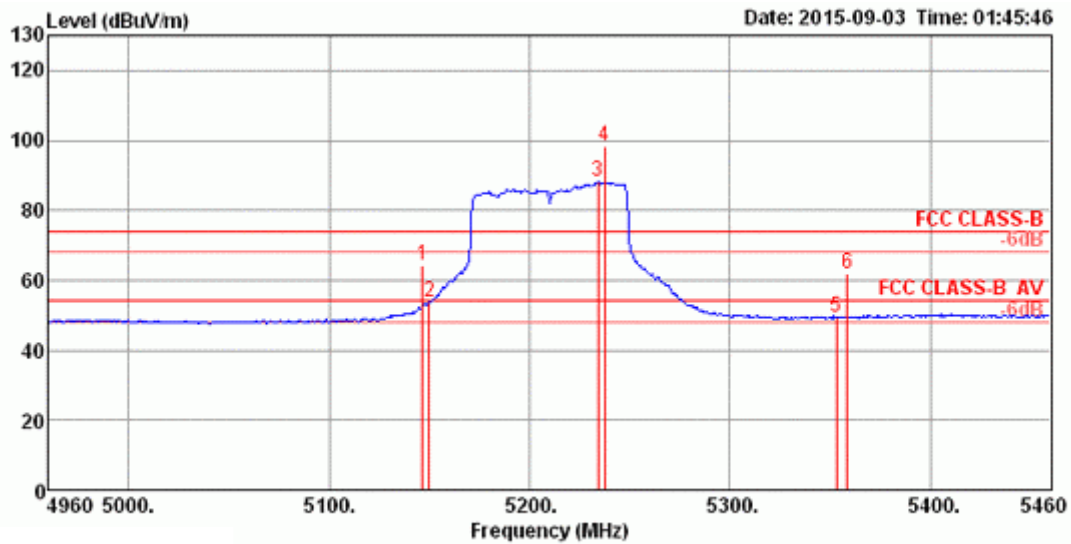
| | Freq | Level | Limit | Over | Read | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|-------|--------|-------|---------|--------|-------|-------|---------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 5713.00 | 66.53 | 68.20 | -1.67 | 62.03 | 4.49 | 34.52 | 34.51 | 1 | 115 | Peak | VERTICAL |
| 2 | 5725.00 | 69.90 | 78.20 | -8.30 | 65.34 | 4.50 | 34.57 | 34.51 | 1 | 115 | Peak | VERTICAL |
| 3 | 5782.60 | 109.88 | | | 105.16 | 4.52 | 34.73 | 34.53 | 1 | 115 | Peak | VERTICAL |
| 4 | 5784.20 | 99.38 | | | 94.66 | 4.52 | 34.73 | 34.53 | 1 | 115 | Average | VERTICAL |
| 5 | 5851.80 | 75.55 | 78.20 | -2.65 | 70.62 | 4.54 | 34.93 | 34.54 | 1 | 115 | Peak | VERTICAL |
| 6 | 5865.40 | 68.00 | 68.20 | -0.20 | 63.00 | 4.55 | 34.99 | 34.54 | 1 | 115 | Peak | VERTICAL |

Item 3, 4 are the fundamental frequency at 5795 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

| | | | |
|---------------|----------|----------------|--|
| Temperature | 26°C | Humidity | 57% |
| Test Engineer | Roki Liu | Configurations | IEEE 802.11ac MCS0/Nss1 VHT80 CH 42, 155 / Chain 9 |

Channel 42

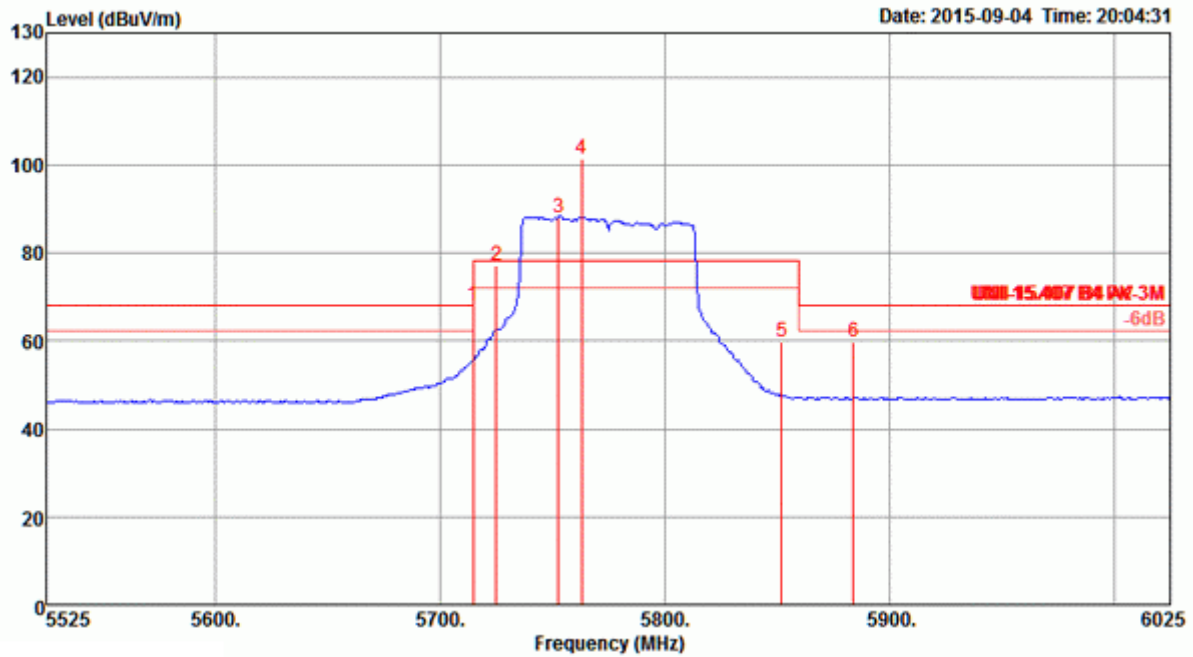


| | Freq | Level | Limit | Over | Read | CableAntenna | Preamp | A/Pos | T/Pos | Remark | Pol/Phase | |
|---|---------|--------|--------|--------|-------|--------------|--------|-------|-------|--------|-----------|----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | cm | deg | | |
| 1 | 5146.38 | 64.45 | 74.00 | -9.55 | 57.55 | 6.21 | 33.74 | 33.05 | 100 | 21 | Peak | VERTICAL |
| 2 | 5150.00 | 53.81 | 54.00 | -0.19 | 46.91 | 6.21 | 33.74 | 33.05 | 100 | 21 | Average | VERTICAL |
| 3 | 5233.88 | 88.03 | | | 80.91 | 6.30 | 33.87 | 33.05 | 100 | 21 | Average | VERTICAL |
| 4 | 5237.50 | 98.20 | | | 91.08 | 6.30 | 33.87 | 33.05 | 100 | 21 | Peak | VERTICAL |
| 5 | 5352.89 | 49.39 | 54.00 | -4.61 | 41.92 | 6.47 | 34.06 | 33.06 | 100 | 21 | Average | VERTICAL |
| 6 | 5358.68 | 61.94 | 74.00 | -12.06 | 54.47 | 6.47 | 34.06 | 33.06 | 100 | 21 | Peak | VERTICAL |

Item 3, 4 are the fundamental frequency at 5210 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Channel 155



| | Freq | Level | Limit | Over | Read | Cable | Antenna | Preamp | T/Pos | A/Pos | Remark | Pol/Phase |
|---|---------|--------|--------|--------|-------|-------|---------|--------|-------|-------|---------|-----------|
| | MHz | dBuV/m | dBuV/m | dB | dBuV | dB | dB/m | dB | deg | cm | | |
| 1 | 5715.00 | 68.08 | 68.20 | -0.12 | 63.58 | 4.49 | 34.52 | 34.51 | 18 | 100 | Peak | VERTICAL |
| 2 | 5725.00 | 77.05 | 78.20 | -1.15 | 72.49 | 4.50 | 34.57 | 34.51 | 18 | 100 | Peak | VERTICAL |
| 3 | 5753.00 | 88.10 | | | 83.43 | 4.51 | 34.68 | 34.52 | 18 | 100 | Average | VERTICAL |
| 4 | 5763.00 | 101.42 | | | 96.76 | 4.51 | 34.68 | 34.53 | 18 | 100 | Peak | VERTICAL |
| 5 | 5852.00 | 59.73 | 78.20 | -18.47 | 54.80 | 4.54 | 34.93 | 34.54 | 18 | 100 | Peak | VERTICAL |
| 6 | 5884.00 | 59.82 | 68.20 | -8.38 | 54.78 | 4.55 | 35.04 | 34.55 | 18 | 100 | Peak | VERTICAL |

Item 3, 4 are the fundamental frequency at 5775 MHz.

Note: Both antenna polarizations have been tested and only the worst case was recorded in test report.

Note:

Emission level (dBuV/m) = 20 log Emission level (uV/m)

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

4.8. Frequency Stability Measurement

4.8.1. Limit

In-band emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

4.8.2. Measuring Instruments and Setting

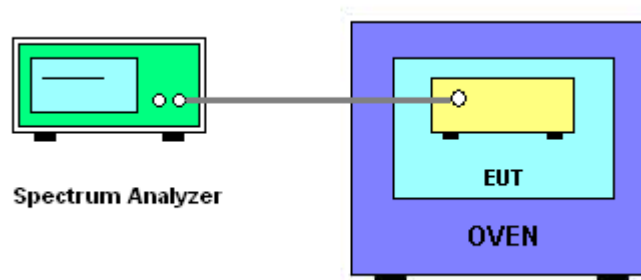
Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

| Spectrum Parameter | Setting |
|--------------------|--|
| Attenuation | Auto |
| Span Frequency | Entire absence of modulation emissions bandwidth |
| RBW | 10 kHz |
| VBW | 10 kHz |
| Sweep Time | Auto |

4.8.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f) / f_c \times 10^6$ ppm and the limit is less than ± 20 ppm (IEEE 802.11n specification).
6. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
7. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
8. Extreme temperature is $0^\circ\text{C} \sim 40^\circ\text{C}$.

4.8.4. Test Setup Layout



4.8.5. Test Deviation

There is no deviation with the original standard.

4.8.6. EUT Operation during Test

The EUT was programmed to be in continuously un-modulation transmitting mode.

4.8.7. Test Result of Frequency Stability

| | | | |
|----------------------|----------|------------------|-------------------------------|
| Temperature | 25°C | Humidity | 45% |
| Test Engineer | Mars Lin | Test Date | Sep. 04, 2015 ~ Dec. 22, 2015 |

For Radio 2

Mode: 20 MHz / Chain 6

Voltage vs. Frequency Stability

| Voltage (V) | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| | 5200 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5199.9946 | 5199.9935 | 5199.9920 | 5199.9900 |
| 110.00 | 5199.9934 | 5199.9921 | 5199.9905 | 5199.9886 |
| 93.50 | 5199.9920 | 5199.9911 | 5199.9897 | 5199.9879 |
| Max. Deviation (MHz) | 0.0080 | 0.0089 | 0.0103 | 0.0121 |
| Max. Deviation (ppm) | 1.53 | 1.71 | 1.97 | 2.32 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature (°C) | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| | 5200 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5199.9959 | 5199.9945 | 5199.9926 | 5199.9904 |
| 10 | 5199.9946 | 5199.9933 | 5199.9918 | 5199.9900 |
| 20 | 5199.9934 | 5199.9921 | 5199.9905 | 5199.9886 |
| 30 | 5199.9920 | 5199.9909 | 5199.9895 | 5199.9879 |
| 40 | 5199.9905 | 5199.9892 | 5199.9876 | 5199.9857 |
| Max. Deviation (MHz) | 0.0112 | 0.0124 | 0.0139 | 0.0162 |
| Max. Deviation (ppm) | 2.15 | 2.38 | 2.67 | 3.11 |
| Result | Complies | | | |

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (V) | 5785 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5784.9951 | 5784.9940 | 5784.9925 | 5784.9905 |
| 110.00 | 5784.9939 | 5784.9926 | 5784.9910 | 5784.9891 |
| 93.50 | 5784.9925 | 5784.9916 | 5784.9902 | 5784.9884 |
| Max. Deviation (MHz) | 0.0075 | 0.0084 | 0.0098 | 0.0116 |
| Max. Deviation (ppm) | 1.29 | 1.45 | 1.69 | 2.00 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (°C) | 5785 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5784.9964 | 5784.9950 | 5784.9931 | 5784.9909 |
| 10 | 5784.9951 | 5784.9938 | 5784.9923 | 5784.9905 |
| 20 | 5784.9939 | 5784.9926 | 5784.9910 | 5784.9891 |
| 30 | 5784.9925 | 5784.9914 | 5784.9900 | 5784.9884 |
| 40 | 5784.9910 | 5784.9897 | 5784.9881 | 5784.9862 |
| Max. Deviation (MHz) | 0.0107 | 0.0119 | 0.0134 | 0.0157 |
| Max. Deviation (ppm) | 1.85 | 2.05 | 2.31 | 2.71 |
| Result | Complies | | | |

Mode: 40 MHz / Chain 6

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (V) | 5190 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5189.9964 | 5189.9953 | 5189.9938 | 5189.9918 |
| 110.00 | 5189.9952 | 5189.9939 | 5189.9923 | 5189.9904 |
| 93.50 | 5189.9938 | 5189.9929 | 5189.9915 | 5189.9897 |
| Max. Deviation (MHz) | 0.0062 | 0.0071 | 0.0085 | 0.0103 |
| Max. Deviation (ppm) | 1.19 | 1.36 | 1.63 | 1.98 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (°C) | 5190 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5189.9977 | 5189.9963 | 5189.9944 | 5189.9922 |
| 10 | 5189.9964 | 5189.9951 | 5189.9936 | 5189.9918 |
| 20 | 5189.9952 | 5189.9939 | 5189.9923 | 5189.9904 |
| 30 | 5189.9938 | 5189.9927 | 5189.9913 | 5189.9897 |
| 40 | 5189.9923 | 5189.9910 | 5189.9894 | 5189.9875 |
| Max. Deviation (MHz) | 0.0094 | 0.0106 | 0.0121 | 0.0144 |
| Max. Deviation (ppm) | 1.81 | 2.04 | 2.33 | 2.77 |
| Result | Complies | | | |

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (V) | 5755 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5754.9951 | 5754.9940 | 5754.9925 | 5754.9905 |
| 110.00 | 5754.9939 | 5754.9926 | 5754.9910 | 5754.9891 |
| 93.50 | 5754.9925 | 5754.9916 | 5754.9902 | 5754.9884 |
| Max. Deviation (MHz) | 0.0075 | 0.0084 | 0.0098 | 0.0116 |
| Max. Deviation (ppm) | 1.30 | 1.46 | 1.70 | 2.01 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (°C) | 5755 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5754.9964 | 5754.9950 | 5754.9931 | 5754.9909 |
| 10 | 5754.9951 | 5754.9938 | 5754.9923 | 5754.9905 |
| 20 | 5754.9939 | 5754.9926 | 5754.9910 | 5754.9891 |
| 30 | 5754.9925 | 5754.9914 | 5754.9900 | 5754.9884 |
| 40 | 5754.9910 | 5754.9897 | 5754.9881 | 5754.9862 |
| Max. Deviation (MHz) | 0.0107 | 0.0119 | 0.0134 | 0.0157 |
| Max. Deviation (ppm) | 1.86 | 2.06 | 2.32 | 2.72 |
| Result | Complies | | | |

Mode: 80 MHz / Chain 6

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (V) | 5210 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5209.9956 | 5209.9945 | 5209.9930 | 5209.9910 |
| 110.00 | 5209.9944 | 5209.9931 | 5209.9915 | 5209.9896 |
| 93.50 | 5209.9930 | 5209.9921 | 5209.9907 | 5209.9889 |
| Max. Deviation (MHz) | 0.0070 | 0.0079 | 0.0093 | 0.0111 |
| Max. Deviation (ppm) | 1.35 | 1.52 | 1.79 | 2.14 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (°C) | 5210 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5209.9969 | 5209.9955 | 5209.9936 | 5209.9914 |
| 10 | 5209.9956 | 5209.9943 | 5209.9928 | 5209.9910 |
| 20 | 5209.9944 | 5209.9931 | 5209.9915 | 5209.9896 |
| 30 | 5209.9930 | 5209.9919 | 5209.9905 | 5209.9889 |
| 40 | 5209.9915 | 5209.9902 | 5209.9886 | 5209.9867 |
| Max. Deviation (MHz) | 0.0102 | 0.0114 | 0.0129 | 0.0152 |
| Max. Deviation (ppm) | 1.97 | 2.20 | 2.48 | 2.93 |
| Result | Complies | | | |

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (V) | 5775 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5774.9948 | 5774.9937 | 5774.9922 | 5774.9902 |
| 110.00 | 5774.9936 | 5774.9923 | 5774.9907 | 5774.9888 |
| 93.50 | 5774.9922 | 5774.9913 | 5774.9899 | 5774.9881 |
| Max. Deviation (MHz) | 0.0078 | 0.0087 | 0.0101 | 0.0119 |
| Max. Deviation (ppm) | 1.35 | 1.50 | 1.75 | 2.06 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (°C) | 5775 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5774.9961 | 5774.9947 | 5774.9928 | 5774.9906 |
| 10 | 5774.9948 | 5774.9935 | 5774.9920 | 5774.9902 |
| 20 | 5774.9936 | 5774.9923 | 5774.9907 | 5774.9888 |
| 30 | 5774.9922 | 5774.9911 | 5774.9897 | 5774.9881 |
| 40 | 5774.9907 | 5774.9894 | 5774.9878 | 5774.9859 |
| Max. Deviation (MHz) | 0.0110 | 0.0122 | 0.0137 | 0.0160 |
| Max. Deviation (ppm) | 1.90 | 2.11 | 2.37 | 2.77 |
| Result | Complies | | | |

For Radio 3

Mode: 20 MHz / Chain 9

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (V) | 5200 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5200.0055 | 5200.0054 | 5200.0043 | 5200.0031 |
| 110.00 | 5200.0048 | 5200.0040 | 5200.0031 | 5200.0021 |
| 93.50 | 5200.0044 | 5200.0039 | 5200.0033 | 5200.0026 |
| Max. Deviation (MHz) | 0.0055 | 0.0054 | 0.0043 | 0.0031 |
| Max. Deviation (ppm) | 1.06 | 1.04 | 0.83 | 0.60 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (°C) | 5200 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5200.0055 | 5200.0042 | 5200.0026 | 5200.0007 |
| 10 | 5200.0051 | 5200.0038 | 5200.0022 | 5200.0003 |
| 20 | 5200.0048 | 5200.0044 | 5200.0036 | 5200.0024 |
| 30 | 5200.0046 | 5200.0033 | 5200.0017 | 5199.9998 |
| 40 | 5200.0043 | 5200.0030 | 5200.0014 | 5199.9995 |
| Max. Deviation (MHz) | 0.0055 | 0.0044 | 0.0036 | 0.0024 |
| Max. Deviation (ppm) | 1.06 | 0.85 | 0.69 | 0.46 |
| Result | Complies | | | |

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (V) | 5785 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5785.0049 | 5785.0048 | 5785.0037 | 5785.0025 |
| 110.00 | 5785.0042 | 5785.0034 | 5785.0025 | 5785.0015 |
| 93.50 | 5785.0038 | 5785.0033 | 5785.0027 | 5785.0020 |
| Max. Deviation (MHz) | 0.0049 | 0.0048 | 0.0037 | 0.0025 |
| Max. Deviation (ppm) | 0.85 | 0.83 | 0.64 | 0.43 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (°C) | 5785 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5785.0049 | 5785.0036 | 5785.0020 | 5785.0001 |
| 10 | 5785.0045 | 5785.0032 | 5785.0016 | 5784.9997 |
| 20 | 5785.0042 | 5785.0038 | 5785.0030 | 5785.0018 |
| 30 | 5785.0040 | 5785.0027 | 5785.0011 | 5784.9992 |
| 40 | 5785.0037 | 5785.0024 | 5785.0008 | 5784.9989 |
| Max. Deviation (MHz) | 0.0049 | 0.0038 | 0.0030 | 0.0018 |
| Max. Deviation (ppm) | 0.85 | 0.66 | 0.52 | 0.31 |
| Result | Complies | | | |

Mode: 40 MHz / Chain 9

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (V) | 5190 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5190.0099 | 5190.0098 | 5190.0087 | 5190.0075 |
| 110.00 | 5190.0092 | 5190.0084 | 5190.0075 | 5190.0065 |
| 93.50 | 5190.0088 | 5190.0083 | 5190.0077 | 5190.0070 |
| Max. Deviation (MHz) | 0.0099 | 0.0098 | 0.0087 | 0.0075 |
| Max. Deviation (ppm) | 1.91 | 1.89 | 1.68 | 1.45 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (°C) | 5190 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5190.0101 | 5190.0088 | 5190.0072 | 5190.0053 |
| 10 | 5190.0096 | 5190.0083 | 5190.0067 | 5190.0048 |
| 20 | 5190.0092 | 5190.0088 | 5190.0080 | 5190.0068 |
| 30 | 5190.0089 | 5190.0076 | 5190.0060 | 5190.0041 |
| 40 | 5190.0085 | 5190.0072 | 5190.0056 | 5190.0037 |
| Max. Deviation (MHz) | 0.0101 | 0.0088 | 0.0080 | 0.0068 |
| Max. Deviation (ppm) | 1.95 | 1.70 | 1.54 | 1.31 |
| Result | Complies | | | |

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (V) | 5755 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5755.0061 | 5755.0060 | 5755.0049 | 5755.0037 |
| 110.00 | 5755.0054 | 5755.0046 | 5755.0037 | 5755.0027 |
| 93.50 | 5755.0050 | 5755.0045 | 5755.0039 | 5755.0032 |
| Max. Deviation (MHz) | 0.0061 | 0.0060 | 0.0049 | 0.0037 |
| Max. Deviation (ppm) | 1.06 | 1.04 | 0.85 | 0.64 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (°C) | 5755 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5755.0061 | 5755.0048 | 5755.0032 | 5755.0013 |
| 10 | 5755.0057 | 5755.0044 | 5755.0028 | 5755.0009 |
| 20 | 5755.0054 | 5755.0050 | 5755.0042 | 5755.0030 |
| 30 | 5755.0052 | 5755.0039 | 5755.0023 | 5755.0004 |
| 40 | 5755.0049 | 5755.0036 | 5755.0020 | 5755.0001 |
| Max. Deviation (MHz) | 0.0061 | 0.0050 | 0.0042 | 0.0030 |
| Max. Deviation (ppm) | 1.06 | 0.87 | 0.73 | 0.52 |
| Result | Complies | | | |

Mode: 80 MHz / Chain 9

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (V) | 5210 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5210.0061 | 5210.0060 | 5210.0049 | 5210.0037 |
| 110.00 | 5210.0054 | 5210.0046 | 5210.0037 | 5210.0027 |
| 93.50 | 5210.0050 | 5210.0045 | 5210.0039 | 5210.0032 |
| Max. Deviation (MHz) | 0.0061 | 0.0060 | 0.0049 | 0.0037 |
| Max. Deviation (ppm) | 1.17 | 1.15 | 0.94 | 0.71 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (°C) | 5210 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5210.0061 | 5210.0048 | 5210.0032 | 5210.0013 |
| 10 | 5210.0057 | 5210.0044 | 5210.0028 | 5210.0009 |
| 20 | 5210.0054 | 5210.0050 | 5210.0042 | 5210.0030 |
| 30 | 5210.0052 | 5210.0039 | 5210.0023 | 5210.0004 |
| 40 | 5210.0049 | 5210.0036 | 5210.0020 | 5210.0001 |
| Max. Deviation (MHz) | 0.0061 | 0.0050 | 0.0042 | 0.0030 |
| Max. Deviation (ppm) | 1.17 | 0.96 | 0.81 | 0.58 |
| Result | Complies | | | |

Voltage vs. Frequency Stability

| Voltage | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (V) | 5775 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 126.50 | 5775.0069 | 5775.0068 | 5775.0057 | 5775.0045 |
| 110.00 | 5775.0062 | 5775.0054 | 5775.0045 | 5775.0035 |
| 93.50 | 5775.0058 | 5775.0053 | 5775.0047 | 5775.0040 |
| Max. Deviation (MHz) | 0.0069 | 0.0068 | 0.0057 | 0.0045 |
| Max. Deviation (ppm) | 1.19 | 1.18 | 0.99 | 0.78 |
| Result | Complies | | | |

Temperature vs. Frequency Stability

| Temperature | Measurement Frequency (MHz) | | | |
|----------------------|-----------------------------|---------------|---------------|---------------|
| (°C) | 5775 MHz | | | |
| | 0 Minute | 2 Minute | 5 Minute | 10 Minute |
| 0 | 5775.0059 | 5775.0046 | 5775.0030 | 5775.0011 |
| 10 | 5775.0055 | 5775.0042 | 5775.0026 | 5775.0007 |
| 20 | 5775.0052 | 5775.0048 | 5775.0040 | 5775.0028 |
| 30 | 5775.0050 | 5775.0037 | 5775.0021 | 5775.0002 |
| 40 | 5775.0047 | 5775.0034 | 5775.0018 | 5774.9999 |
| Max. Deviation (MHz) | 0.0059 | 0.0048 | 0.0040 | 0.0028 |
| Max. Deviation (ppm) | 1.02 | 0.83 | 0.69 | 0.48 |
| Result | Complies | | | |

4.9. Antenna Requirements

4.9.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.9.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

5. LIST OF MEASURING EQUIPMENTS

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|----------------------------|--------------|------------------|-------------|-----------------|------------------|-----------------------|
| EMI Test Receiver | R&S | ESCS 30 | 100355 | 9kHz ~ 2.75GHz | Apr. 22, 2015 | Conduction (CO01-CB) |
| LISN | F.C.C. | FCC-LISN-50-16-2 | 04083 | 150kHz ~ 100MHz | Dec. 02, 2014 | Conduction (CO01-CB) |
| LISN | Schwarzbeck | NSLK 8127 | 8127647 | 9kHz ~ 30MHz | Dec. 02, 2014 | Conduction (CO01-CB) |
| COND Cable | Woken | Cable | 01 | 150kHz ~ 30MHz | Dec. 03, 2014 | Conduction (CO01-CB) |
| Software | Audix | E3 | 6.120210n | - | N.C.R. | Conduction (CO01-CB) |
| BILOG ANTENNA | Schaffner | CBL6112D | 37880 | 20MHz ~ 2GHz | Sep. 03, 2015 | Radiation (03CH01-CB) |
| Loop Antenna | Teseq | HLA 6120 | 24155 | 9kHz - 30 MHz | Mar. 12, 2015* | Radiation (03CH01-CB) |
| Horn Antenna | EMCO | 3115 | 00075790 | 750MHz ~ 18GHz | Oct. 28, 2014 | Radiation (03CH01-CB) |
| Horn Antenna | EMCO | 3115 | 00075790 | 750MHz ~ 18GHz | Oct. 22, 2015 | Radiation (03CH01-CB) |
| Horn Antenna | Schwarzbeck | BBHA 9170 | BBHA9170252 | 15GHz ~ 40GHz | Jul. 21, 2015 | Radiation (03CH01-CB) |
| Pre-Amplifier | Agilent | 8447D | 2944A10991 | 0.1MHz ~ 1.3GHz | Feb. 24, 2015 | Radiation (03CH01-CB) |
| Pre-Amplifier | Agilent | 8449B | 3008A02310 | 1GHz ~ 26.5GHz | Jan. 12, 2015 | Radiation (03CH01-CB) |
| Pre-Amplifier | WM | TF-130N-R1 | 923365 | 26GHz ~ 40GHz | Feb.10, 2015 | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100056 | 9kHz ~ 40GHz | Nov. 06, 2014 | Radiation (03CH01-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100056 | 9kHz ~ 40GHz | Oct. 27, 2015 | Radiation (03CH01-CB) |
| EMI Receiver | Agilent | N9038A | MY52260123 | 9kHz ~ 8.4GHz | Jan. 21, 2015 | Radiation (03CH01-CB) |
| RF Cable-low | Woken | Low Cable-1 | N/A | 30 MHz ~ 1 GHz | Nov. 02, 2015 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-16 | N/A | 1 GHz ~ 18 GHz | Nov. 15, 2014 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-16 | N/A | 1 GHz ~ 18 GHz | Nov. 02, 2015 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-17 | N/A | 1 GHz ~ 18 GHz | Nov. 15, 2014 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-17 | N/A | 1 GHz ~ 18 GHz | Nov. 02, 2015 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G-1 | N/A | 1 GHz ~ 40 GHz | Nov. 15, 2014 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G-1 | N/A | 18GHz ~ 40 GHz | Nov. 02, 2015 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G-2 | N/A | 1 GHz ~ 40 GHz | Nov. 15, 2014 | Radiation (03CH01-CB) |
| RF Cable-high | Woken | High Cable-40G-2 | N/A | 18GHz ~ 40 GHz | Nov. 02, 2015 | Radiation (03CH01-CB) |
| Spectrum analyzer | R&S | FSP40 | 100979 | 9kHz~40GHz | Dec. 12, 2014 | Conducted (TH01-CB) |
| Spectrum Analyzer | R&S | FSP40 | 100142 | 9kHz~40GHz | Oct. 13, 2015 | Conducted (TH01-CB) |
| Spectrum analyzer | R&S | FSV40 | 100979 | 9kHz~40GHz | Dec. 12, 2014 | Conducted (TH01-CB) |
| Spectrum analyzer | R&S | FSV40 | 100979 | 9kHz~40GHz | Dec. 09, 2015 | Conducted (TH01-CB) |
| Temp. and Humidity Chamber | Ten Billion | TTH-D3SP | TBN-931011 | -30~100 degree | Jun. 02, 2015 | Conducted (TH01-CB) |

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|---------------|--------------|-----------|---------------|------------------|------------------|---------------------|
| RF Cable-high | Woken | RG402 | High Cable-7 | 1 GHz – 26.5 GHz | Nov. 15, 2014 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-7 | 1 GHz – 26.5 GHz | Nov. 02, 2015 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-8 | 1 GHz – 26.5 GHz | Nov. 15, 2014 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-8 | 1 GHz – 26.5 GHz | Nov. 02, 2015 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-9 | 1 GHz – 26.5 GHz | Nov. 15, 2014 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-9 | 1 GHz – 26.5 GHz | Nov. 02, 2015 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-10 | 1 GHz – 26.5 GHz | Nov. 15, 2014 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-10 | 1 GHz – 26.5 GHz | Nov. 02, 2015 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-6 | 1 GHz – 26.5 GHz | Nov. 15, 2014 | Conducted (TH01-CB) |
| RF Cable-high | Woken | RG402 | High Cable-6 | 1 GHz – 26.5 GHz | Nov. 02, 2015 | Conducted (TH01-CB) |
| Power Sensor | Agilent | U2021XA | MY53410001 | 50MHz~18GHz | Nov. 03, 2014 | Conducted (TH01-CB) |
| Power Sensor | Agilent | U2021XA | MY53410001 | 50MHz~18GHz | Nov. 02, 2015 | Conducted (TH01-CB) |

Note: Calibration Interval of instruments listed above is one year.

“*” Calibration Interval of instruments listed above is two years.

N.C.R means Non-Calibration required.

6. MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty | Remark |
|--------------------------------------|-------------|--------------------------|
| Conducted Emission (150kHz ~ 30MHz) | 3.2 dB | Confidence levels of 95% |
| Radiated Emission (30MHz ~ 1,000MHz) | 3.6 dB | Confidence levels of 95% |
| Radiated Emission (1GHz ~ 18GHz) | 3.7 dB | Confidence levels of 95% |
| Radiated Emission (18GHz ~ 40GHz) | 3.5 dB | Confidence levels of 95% |
| Conducted Emission | 1.7 dB | Confidence levels of 95% |