

6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---------------------|--------------|-------------------|-------------|-----------|---------------|
| 1. | PXA Signal Analyzer | Agilent | N9030A | MY51380221 | Jun.30,19 | 1 Year |
| 2. | Amplifier | Agilent | 8449B | 3008A02495 | Apr.23,19 | 1 Year |
| 3. | Horn Antenna | ETC | MCTD 1209 | DRH15F03007 | Jun.17,19 | 1 Year |
| 4. | RF Cable | EMCI | EMC102-KM-KM 3500 | 170702 | May.13,19 | 1 Year |

6.2. Limit

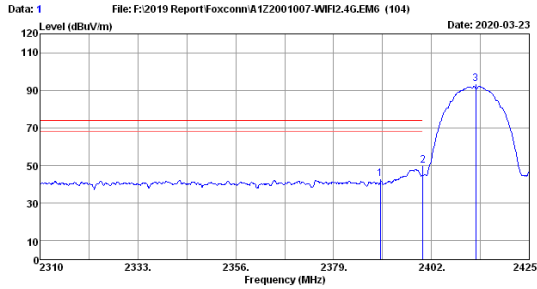
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.4. Test Results

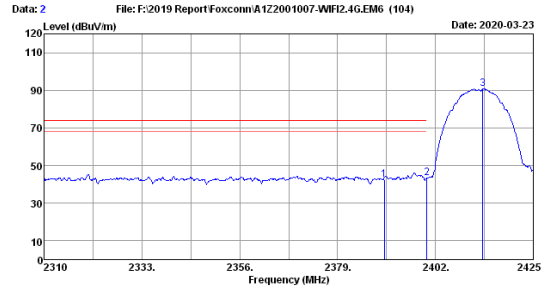
Pass (The testing data was attached in the next pages.)



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11b 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2390.000 | 27.70 | 3.04 | 44.90 | 32.56 | 43.08 | 74.00 | 30.92 | Peak |
| 2 | 2400.000 | 27.70 | 3.04 | 51.74 | 32.56 | 49.92 | 74.00 | 24.08 | Peak |
| 3 | 2412.465 | 27.77 | 3.05 | 95.10 | 32.53 | 93.39 | ----- | ----- | Peak |

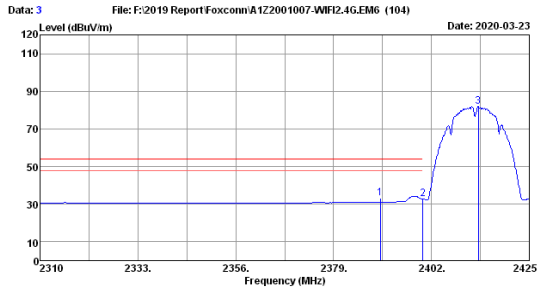
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11b 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2390.000 | 27.70 | 3.04 | 44.19 | 32.56 | 42.37 | 74.00 | 31.63 | Peak |
| 2 | 2400.000 | 27.70 | 3.04 | 45.14 | 32.56 | 43.32 | 74.00 | 30.68 | Peak |
| 3 | 2413.155 | 27.77 | 3.05 | 92.37 | 32.53 | 90.66 | ----- | ----- | Peak |

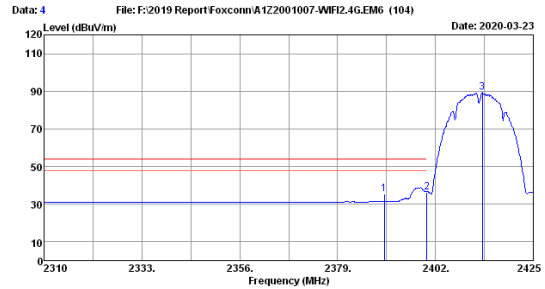
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11b 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2390.000 | 27.70 | 3.04 | 34.96 | 32.56 | 33.14 | 54.00 | 20.86 | Average |
| 2 | 2400.000 | 27.70 | 3.04 | 34.59 | 32.56 | 32.77 | 54.00 | 21.23 | Average |
| 3 | 2413.040 | 27.77 | 3.05 | 83.68 | 32.53 | 81.97 | ----- | ----- | Average |

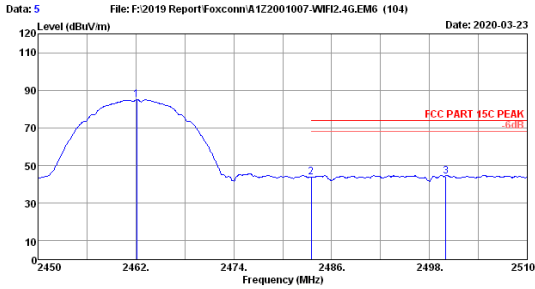
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11b 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2390.000 | 27.70 | 3.04 | 37.31 | 32.56 | 35.49 | 54.00 | 18.51 | Average |
| 2 | 2400.000 | 27.70 | 3.04 | 38.29 | 32.56 | 36.47 | 54.00 | 17.53 | Average |
| 3 | 2413.040 | 27.77 | 3.05 | 90.95 | 32.53 | 89.24 | ----- | ----- | Average |

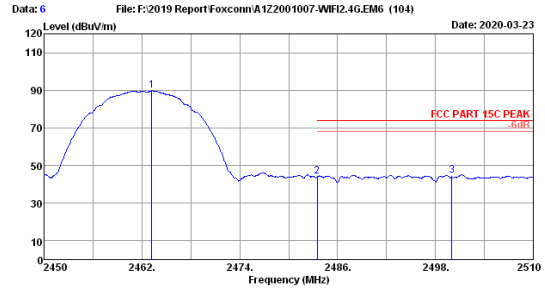
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11b 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2462.120 | 27.97 | 3.09 | 86.47 | 32.51 | 85.02 | ----- | ----- | Peak |
| 2 | 2483.500 | 28.03 | 3.10 | 45.36 | 32.48 | 44.01 | 74.00 | 29.99 | Peak |
| 3 | 2500.000 | 28.10 | 3.11 | 45.47 | 32.46 | 44.22 | 74.00 | 29.78 | Peak |

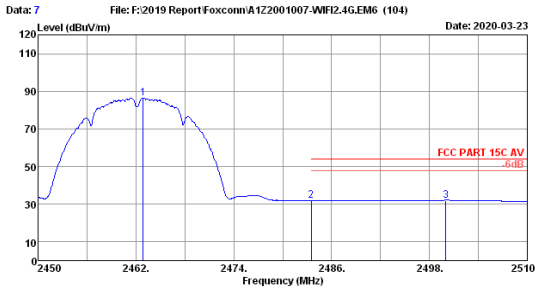
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11b 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2462.200 | 27.97 | 3.09 | 91.15 | 32.48 | 89.73 | ----- | ----- | Peak |
| 2 | 2483.500 | 28.03 | 3.10 | 45.79 | 32.48 | 44.44 | 74.00 | 29.56 | Peak |
| 3 | 2500.000 | 28.10 | 3.11 | 45.75 | 32.46 | 44.50 | 74.00 | 29.50 | Peak |

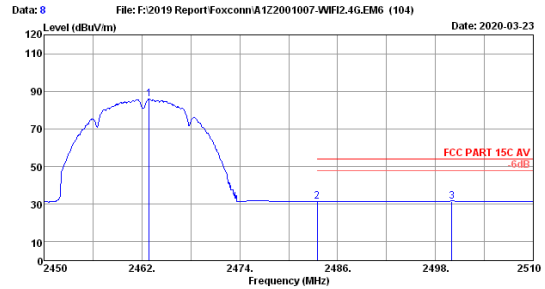
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11b 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2462.900 | 27.97 | 3.09 | 88.01 | 32.51 | 86.56 | ----- | ----- | Average |
| 2 | 2483.500 | 28.03 | 3.10 | 33.10 | 32.48 | 31.75 | 54.00 | 22.25 | Average |
| 3 | 2500.000 | 28.10 | 3.11 | 33.17 | 32.46 | 31.92 | 54.00 | 22.08 | Average |

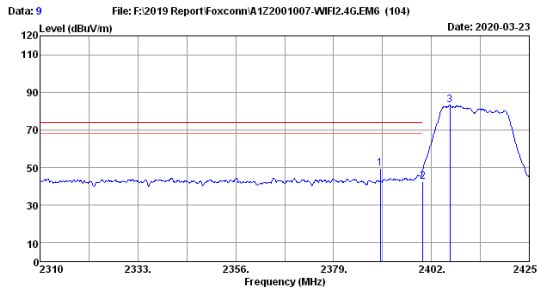
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11b 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2462.900 | 27.97 | 3.09 | 87.38 | 32.51 | 85.93 | ----- | ----- | Average |
| 2 | 2483.500 | 28.03 | 3.10 | 32.77 | 32.48 | 31.42 | 54.00 | 22.58 | Average |
| 3 | 2500.000 | 28.10 | 3.11 | 32.64 | 32.46 | 31.59 | 54.00 | 22.41 | Average |

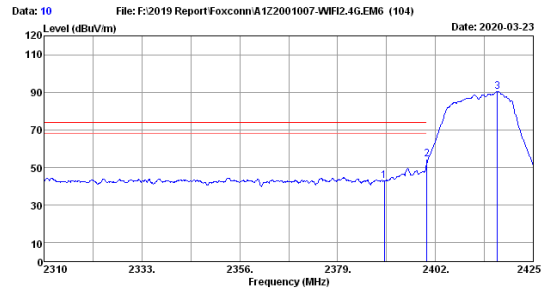
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11g 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2390.000 | 27.70 | 3.04 | 51.58 | 32.56 | 49.76 | 74.00 | 24.24 | Peak |
| 2 | 2400.000 | 27.70 | 3.04 | 44.36 | 32.56 | 42.54 | 74.00 | 31.46 | Peak |
| 3 | 2406.370 | 27.77 | 3.05 | 84.94 | 32.56 | 83.20 | ----- | ----- | Peak |

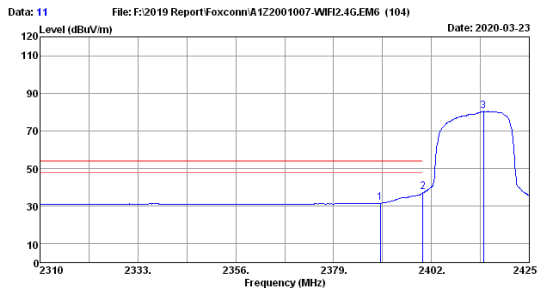
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11g 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2390.000 | 27.70 | 3.04 | 44.91 | 32.56 | 43.09 | 74.00 | 30.91 | Peak |
| 2 | 2400.000 | 27.70 | 3.04 | 56.23 | 32.56 | 54.41 | 74.00 | 19.59 | Peak |
| 3 | 2416.605 | 27.77 | 3.05 | 92.05 | 32.53 | 90.34 | ----- | ----- | Peak |

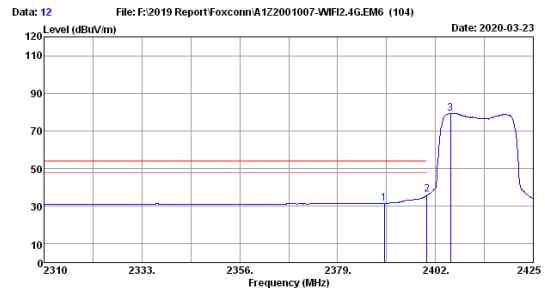
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11g 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2390.000 | 27.70 | 3.04 | 33.62 | 32.56 | 31.80 | 54.00 | 22.20 | Average |
| 2 | 2400.000 | 27.70 | 3.04 | 39.52 | 32.56 | 37.70 | 54.00 | 16.30 | Average |
| 3 | 2414.190 | 27.77 | 3.05 | 82.10 | 32.53 | 80.39 | ----- | ----- | Average |

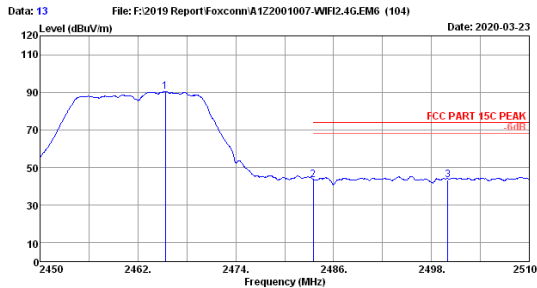
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11g 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2390.000 | 27.70 | 3.04 | 33.43 | 32.56 | 31.61 | 54.00 | 22.39 | Average |
| 2 | 2400.000 | 27.70 | 3.04 | 37.97 | 32.56 | 36.15 | 54.00 | 17.85 | Average |
| 3 | 2405.565 | 27.77 | 3.05 | 81.06 | 32.56 | 79.32 | ----- | ----- | Average |

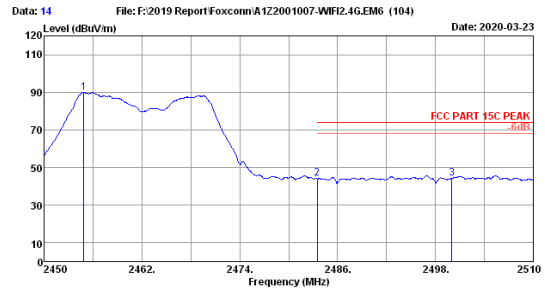
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11g 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2465.360 | 27.97 | 3.09 | 91.86 | 32.48 | 90.44 | ----- | ----- | Peak |
| 2 | 2483.500 | 28.03 | 3.10 | 44.67 | 32.48 | 43.32 | 74.00 | 30.68 | Peak |
| 3 | 2500.000 | 28.10 | 3.11 | 44.47 | 32.46 | 43.22 | 74.00 | 30.78 | Peak |

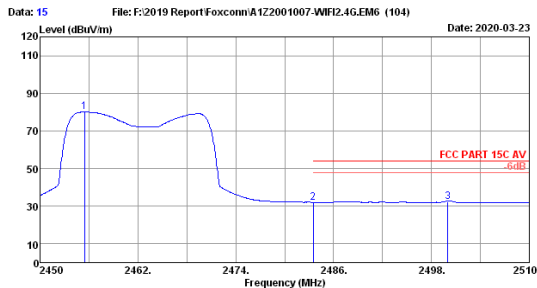
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11g 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2465.360 | 27.97 | 3.09 | 91.29 | 32.51 | 89.84 | ----- | ----- | Peak |
| 2 | 2483.500 | 28.03 | 3.10 | 45.45 | 32.48 | 44.10 | 74.00 | 29.90 | Peak |
| 3 | 2500.000 | 28.10 | 3.11 | 45.31 | 32.46 | 44.06 | 74.00 | 29.94 | Peak |

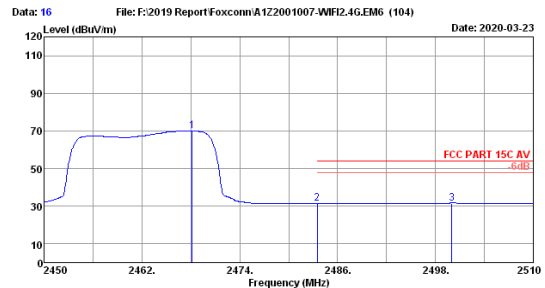
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 15
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11g 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2465.460 | 27.97 | 3.09 | 81.58 | 32.51 | 80.13 | ----- | ----- | Average |
| 2 | 2483.500 | 28.03 | 3.10 | 33.40 | 32.48 | 32.05 | 54.00 | 21.95 | Average |
| 3 | 2500.000 | 28.10 | 3.11 | 33.35 | 32.46 | 32.10 | 54.00 | 21.90 | Average |

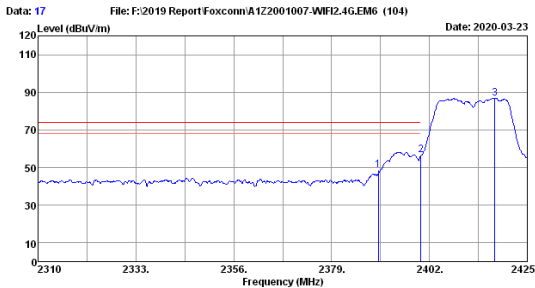
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11g 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2468.180 | 27.97 | 3.09 | 71.60 | 32.48 | 70.18 | ----- | ----- | Average |
| 2 | 2483.500 | 28.03 | 3.10 | 32.86 | 32.48 | 31.51 | 54.00 | 22.49 | Average |
| 3 | 2500.000 | 28.10 | 3.11 | 32.81 | 32.46 | 31.56 | 54.00 | 22.44 | Average |

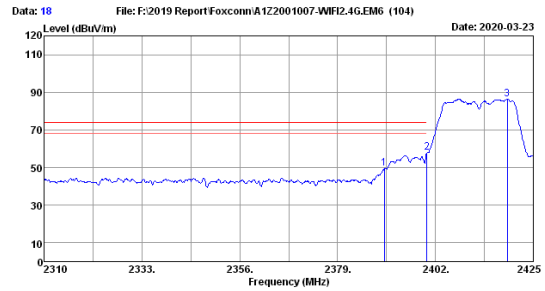
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 17
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT20 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2390.000 | 27.70 | 3.04 | 50.47 | 32.56 | 48.65 | 74.00 | 25.35 | Peak |
| 2 | 2400.000 | 27.70 | 3.04 | 58.60 | 32.56 | 56.78 | 74.00 | 17.22 | Peak |
| 3 | 2417.410 | 27.77 | 3.05 | 88.64 | 32.53 | 86.93 | | | Peak |

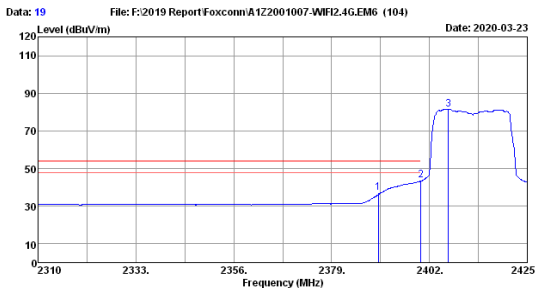
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT20 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2390.000 | 27.70 | 3.04 | 51.42 | 32.56 | 49.60 | 74.00 | 24.40 | Peak |
| 2 | 2400.000 | 27.70 | 3.04 | 59.62 | 32.56 | 57.80 | 74.00 | 16.20 | Peak |
| 3 | 2418.905 | 27.77 | 3.05 | 88.17 | 32.53 | 86.46 | | | Peak |

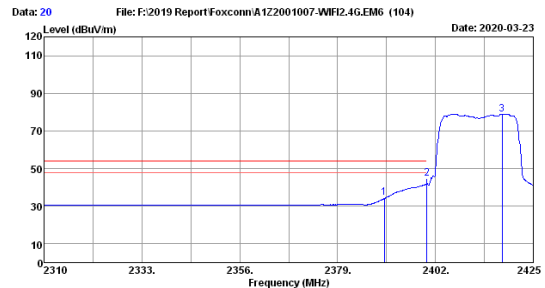
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 19
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT20 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2390.000 | 27.70 | 3.04 | 38.80 | 32.56 | 36.98 | 54.00 | 17.02 | Average |
| 2 | 2400.000 | 27.70 | 3.04 | 45.67 | 32.56 | 43.85 | 54.00 | 10.15 | Average |
| 3 | 2406.485 | 27.77 | 3.05 | 83.35 | 32.56 | 81.61 | | | Average |

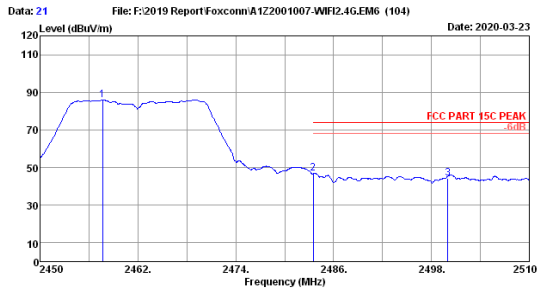
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT20 2412MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2390.000 | 27.70 | 3.04 | 36.51 | 32.56 | 34.69 | 54.00 | 19.31 | Average |
| 2 | 2400.000 | 27.70 | 3.04 | 46.76 | 32.56 | 44.94 | 54.00 | 9.06 | Average |
| 3 | 2417.640 | 27.77 | 3.05 | 80.72 | 32.53 | 79.01 | | | Average |

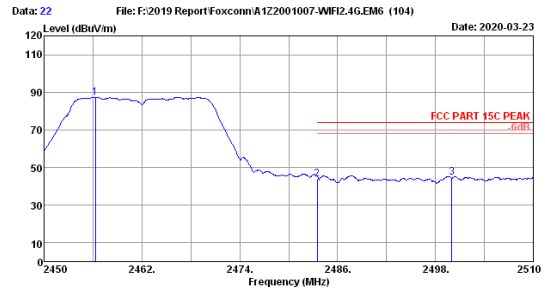
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 21
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT20 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2457.600 | 27.97 | 3.09 | 87.25 | 32.51 | 85.80 | ----- | ----- | Peak |
| 2 | 2483.500 | 28.03 | 3.10 | 48.18 | 32.48 | 46.83 | 74.00 | 27.17 | Peak |
| 3 | 2500.000 | 28.10 | 3.11 | 45.69 | 32.46 | 44.44 | 74.00 | 29.56 | Peak |

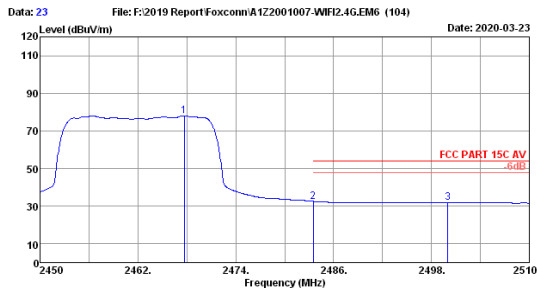
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 22
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT20 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2456.300 | 27.97 | 3.09 | 88.88 | 32.51 | 87.43 | ----- | ----- | Peak |
| 2 | 2483.500 | 28.03 | 3.10 | 45.24 | 32.48 | 43.89 | 74.00 | 30.11 | Peak |
| 3 | 2500.000 | 28.10 | 3.11 | 46.19 | 32.46 | 44.94 | 74.00 | 29.06 | Peak |

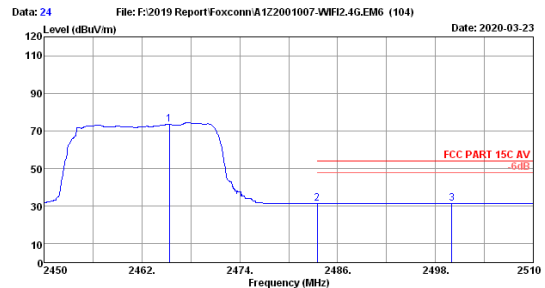
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT20 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2467.700 | 27.97 | 3.09 | 79.37 | 32.48 | 77.95 | ----- | ----- | Average |
| 2 | 2483.500 | 28.03 | 3.10 | 33.84 | 32.48 | 32.49 | 54.00 | 21.51 | Average |
| 3 | 2500.000 | 28.10 | 3.11 | 33.29 | 32.46 | 32.04 | 54.00 | 21.96 | Average |

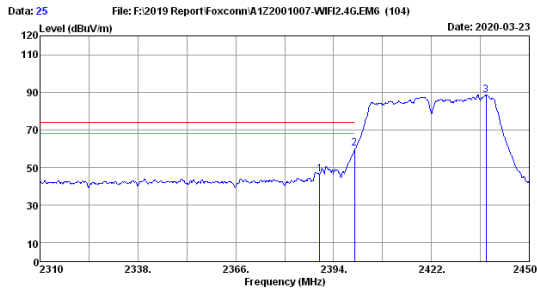
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT20 2462MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2465.360 | 27.97 | 3.09 | 74.93 | 32.48 | 73.51 | ----- | ----- | Average |
| 2 | 2483.500 | 28.03 | 3.10 | 32.82 | 32.48 | 31.47 | 54.00 | 22.53 | Average |
| 3 | 2500.000 | 28.10 | 3.11 | 32.79 | 32.46 | 31.54 | 54.00 | 22.46 | Average |

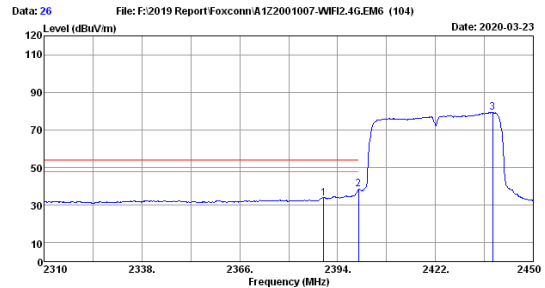
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT40 2422MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2390.000 | 27.70 | 3.04 | 50.79 | 35.04 | 46.49 | 74.00 | 27.51 | Peak |
| 2 | 2400.000 | 27.70 | 3.04 | 64.56 | 35.04 | 60.26 | 74.00 | 13.74 | Peak |
| 3 | 2437.680 | 27.90 | 3.08 | 92.59 | 35.02 | 88.55 | ----- | ----- | Peak |

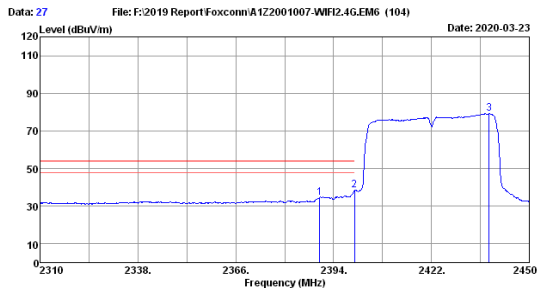
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT40 2422MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2390.000 | 27.70 | 3.04 | 38.17 | 35.04 | 33.87 | 54.00 | 20.13 | Average |
| 2 | 2400.000 | 27.70 | 3.04 | 42.65 | 35.04 | 38.35 | 54.00 | 15.65 | Average |
| 3 | 2438.380 | 27.90 | 3.08 | 83.24 | 35.02 | 79.20 | ----- | ----- | Average |

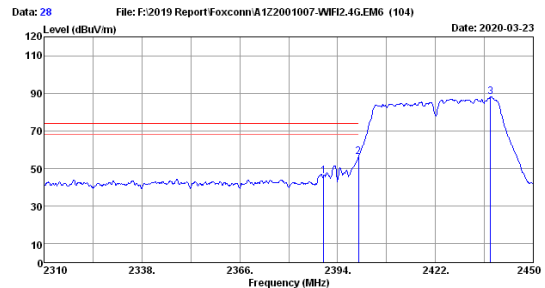
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT40 2422MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2390.000 | 27.70 | 3.04 | 38.73 | 35.04 | 34.43 | 54.00 | 19.57 | Average |
| 2 | 2400.000 | 27.70 | 3.04 | 42.74 | 35.04 | 38.44 | 54.00 | 15.56 | Average |
| 3 | 2438.520 | 27.90 | 3.08 | 83.30 | 35.02 | 79.26 | ----- | ----- | Average |

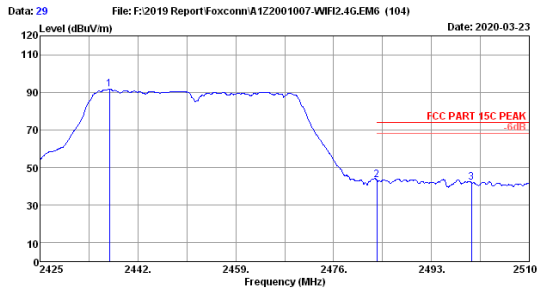
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT40 2422MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2390.000 | 27.70 | 3.04 | 50.41 | 35.04 | 46.11 | 74.00 | 27.89 | Peak |
| 2 | 2400.000 | 27.70 | 3.04 | 60.50 | 35.04 | 56.20 | 74.00 | 17.80 | Peak |
| 3 | 2437.820 | 27.90 | 3.08 | 92.08 | 35.02 | 88.04 | ----- | ----- | Peak |

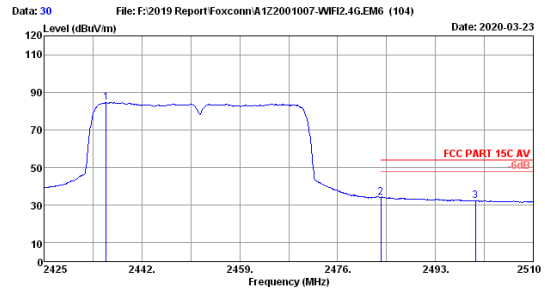
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT40 2452MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2437.070 | 27.90 | 3.08 | 95.76 | 35.02 | 91.72 | 74.00 | 17.72 | Peak |
| 2 | 2483.500 | 28.03 | 3.10 | 47.41 | 35.01 | 43.53 | 74.00 | 30.47 | Peak |
| 3 | 2499.970 | 28.10 | 3.11 | 45.77 | 35.00 | 41.98 | 74.00 | 32.02 | Peak |

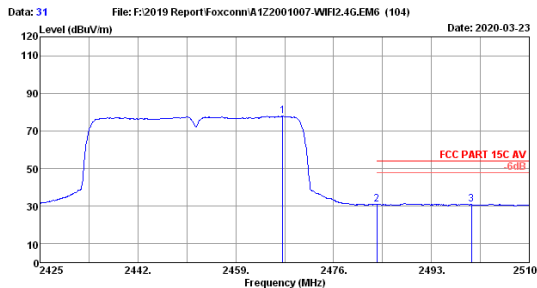
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT40 2452MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2435.795 | 27.83 | 3.07 | 88.72 | 35.03 | 84.59 | 74.00 | 10.59 | Average |
| 2 | 2483.500 | 28.03 | 3.10 | 38.05 | 35.01 | 34.17 | 74.00 | 39.83 | Average |
| 3 | 2499.970 | 28.10 | 3.11 | 36.17 | 35.00 | 32.38 | 74.00 | 41.62 | Average |

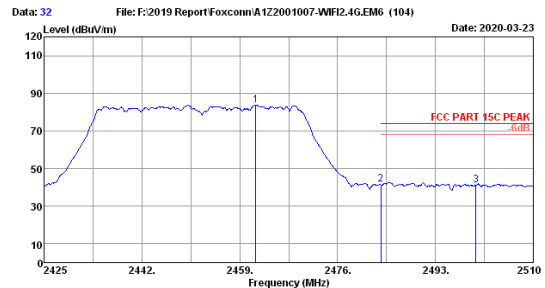
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 31
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT40 2452MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2467.160 | 27.97 | 3.09 | 81.84 | 35.02 | 77.88 | 74.00 | 3.88 | Average |
| 2 | 2483.500 | 28.03 | 3.10 | 34.84 | 35.01 | 30.96 | 74.00 | 43.04 | Average |
| 3 | 2499.970 | 28.10 | 3.11 | 34.65 | 35.00 | 30.86 | 74.00 | 43.14 | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 32
 Dis. / Ant. : 3m 2019 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 24.4°C/53.5% Engineer : Garry
 Power rating : DC 5V From PC Input AC 120V/60Hz
 Test Mode : 802.11nHT40 2452MHz Tx Mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Amp factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2461.805 | 27.97 | 3.09 | 87.61 | 35.02 | 83.65 | 74.00 | 9.65 | Peak |
| 2 | 2483.500 | 28.03 | 3.10 | 45.34 | 35.01 | 41.46 | 74.00 | 32.54 | Peak |
| 3 | 2500.000 | 28.10 | 3.11 | 44.78 | 35.00 | 40.99 | 74.00 | 33.01 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading -Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

7. 6dB Bandwidth Test

7.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---------------------|--------------|----------------------|------------|-----------|---------------|
| 1. | PXA Signal Analyzer | Agilent | N9030A | MY51380221 | Jun.30,19 | 1 Year |
| 2. | Attenuator | Agilent | 8491B | MY39269201 | Oct.13,19 | 1 Year |
| 3. | RF Cable | EMCI | EMC102-KM-KM 3500 | 170702 | May.13,19 | 1 Year |

7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

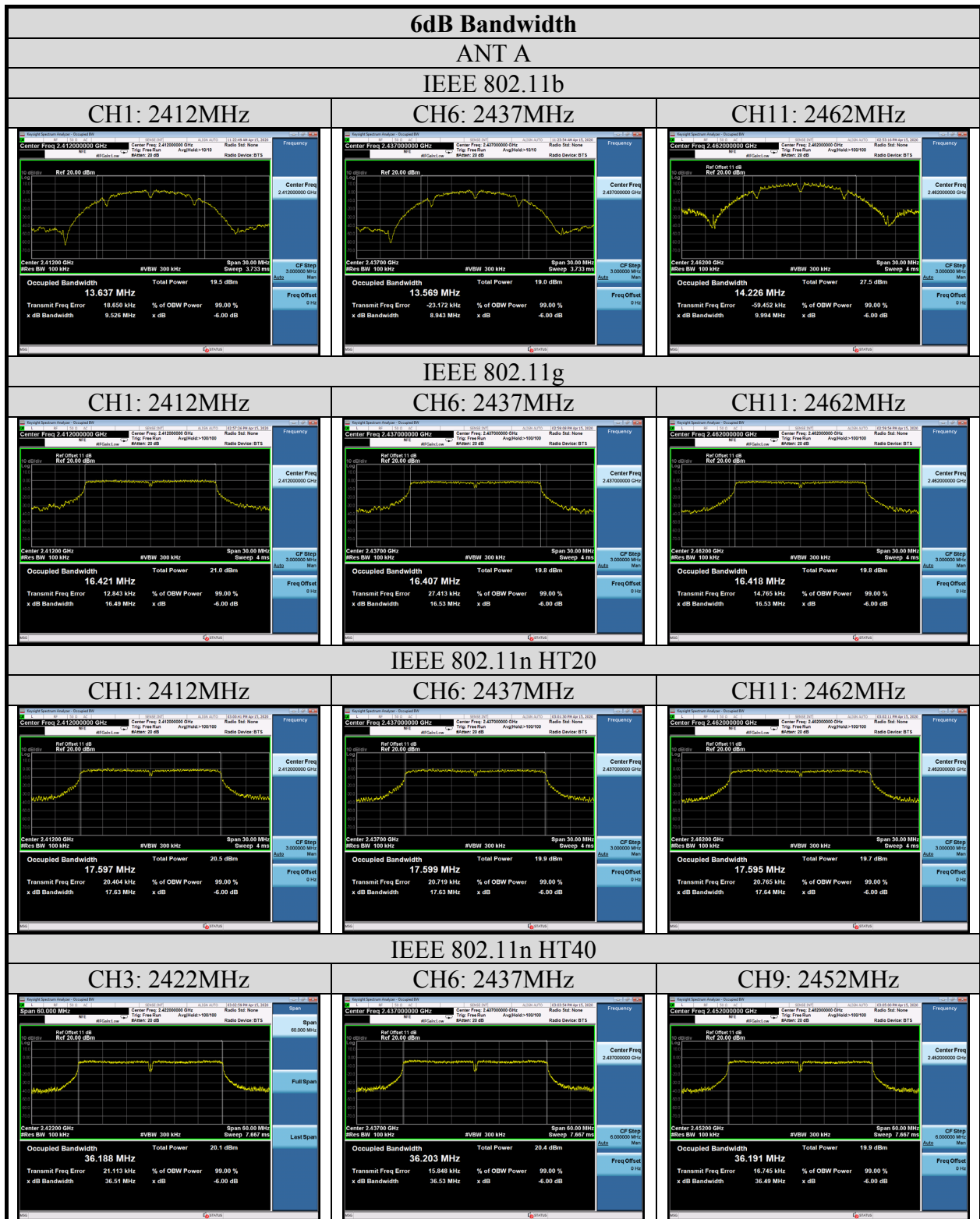
7.3. Test Procedure

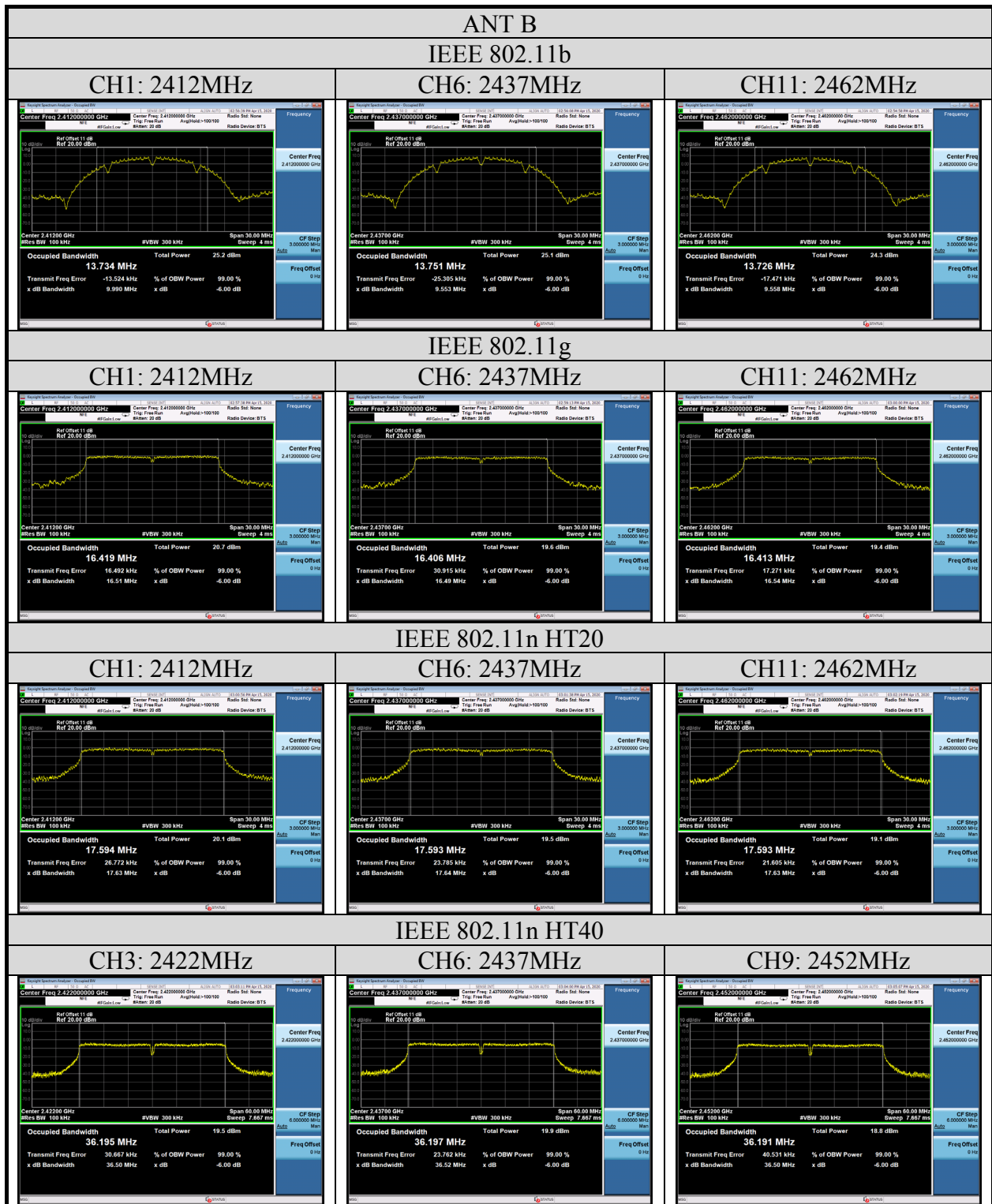
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

| | | |
|-----------------------|-------------------------|--------------------------|
| EUT: WiFi module | | |
| M/N: WC0SR2511 | | |
| Test date: 2020-04-15 | Pressure: 102.3±1.0 kpa | Humidity: 53.6±3.0% |
| Tested by: Jerry | Test site: RF site | Temperature: 25.5±0.6 °C |

| Test Mode | CH | 6dB bandwidth (MHz) | | Limit (kHz) |
|-------------------|------|--------------------------|-------|----------------|
| | | ANTA | ANTB | |
| 11b | CH1 | 9.526 | 9.990 | ≥500 |
| | CH6 | 8.943 | 9.553 | ≥500 |
| | CH11 | 9.994 | 9.558 | ≥500 |
| 11g | CH1 | 16.49 | 16.51 | ≥500 |
| | CH6 | 16.53 | 16.49 | ≥500 |
| | CH11 | 16.53 | 16.54 | ≥500 |
| 11n HT20 | CH1 | 17.63 | 17.63 | ≥500 |
| | CH6 | 17.63 | 17.64 | ≥500 |
| | CH11 | 17.64 | 17.63 | ≥500 |
| 11n HT40 | CH3 | 36.51 | 36.50 | ≥500 |
| | CH6 | 36.53 | 36.52 | ≥500 |
| | CH9 | 36.49 | 36.50 | ≥500 |
| Conclusion : PASS | | | | |





8. OUTPUT POWER TEST

8.1. Test Equipment

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|------|---------------------|--------------|-------------------|------------|-----------|---------------|
| 1. | PXA Signal Analyzer | Agilent | N9030A | MY51380221 | Jun.30,19 | 1 Year |
| 2. | Power meter | HP | 436A | 2016A07891 | Oct.13,19 | 1 Year |
| 3. | Power sensor | Agilent | 8482B | MY41090514 | Oct.13,19 | 1 Year |
| 4. | Attenuator | Agilent | 8491B | MY39269201 | Oct.13,19 | 1 Year |
| 5. | RF Cable | EMCI | EMC102-KM-KM 3500 | 170702 | May.13,19 | 1 Year |

8.2. Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm), As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level.

8.3. Test Procedure

- 1, Connected the EUT’s antenna port to measure device by 20dB attenuator.
- 2, Use the test method described in ANSI C63.10-2013 clause 11.9.2.2.2 Method AVGSA-1.
 - 1) Set span to at least 1.5 times the OBW.
 - 2) Set RBW = 1% to 5% of the OBW, not to exceed 1 MHz.
 - 3) Set VBW $\geq [3 \times \text{RBW}]$.
 - 4) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq \text{RBW} / 2$, so that narrowband signals are not lost between frequency bins.)
 - 5) Sweep time = auto.
 - 6) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
 - 7) If transmit duty cycle $< 98\%$, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at the maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”
 - 8) Trace average at least 100 traces in power averaging (rms) mode.
 - 9) Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.4. Test Results

| | | |
|-----------------------|-------------------------|--------------------------|
| EUT: WiFi module | | |
| M/N: WC0SR2511 | | |
| Test date: 2020-03-27 | Pressure: 102.1±1.0 kpa | Humidity: 51.1±3.0% |
| Tested by: Jerry | Test site: RF site | Temperature: 22.8±0.6 °C |

| Test Mode | CH | output Power (dBm) | | | Limit (dBm) |
|-------------|------|--------------------|-------|-------|-------------|
| | | ANTA | ANTB | Total | |
| 11b | CH1 | 13.23 | 13.81 | 16.54 | 30 |
| | CH6 | 13.21 | 13.37 | 16.30 | |
| | CH11 | 13.58 | 13.36 | 16.48 | |
| 11g | CH1 | 13.63 | 13.72 | 16.69 | 30 |
| | CH6 | 13.35 | 13.28 | 16.33 | |
| | CH11 | 13.50 | 13.38 | 16.45 | |
| 11n HT20 | CH1 | 13.38 | 13.21 | 16.31 | 30 |
| | CH6 | 13.74 | 13.66 | 16.71 | |
| | CH11 | 13.66 | 13.24 | 16.47 | |
| 11n HT40 | CH3 | 13.59 | 13.66 | 16.64 | 30 |
| | CH6 | 13.49 | 13.59 | 16.55 | |
| | CH9 | 13.18 | 13.55 | 16.38 | |

Conclusion: PASS

Note: Directional Gain= $10 \log[(10^{2.08/10} + 10^{2.00/10})/2]$ dBi = 2.04 dBi < 6 dBi.

