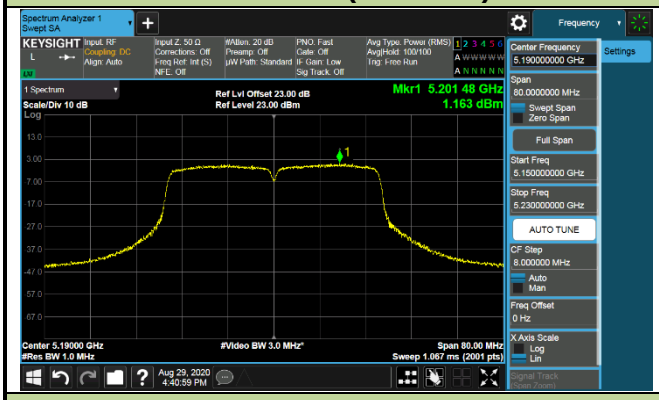
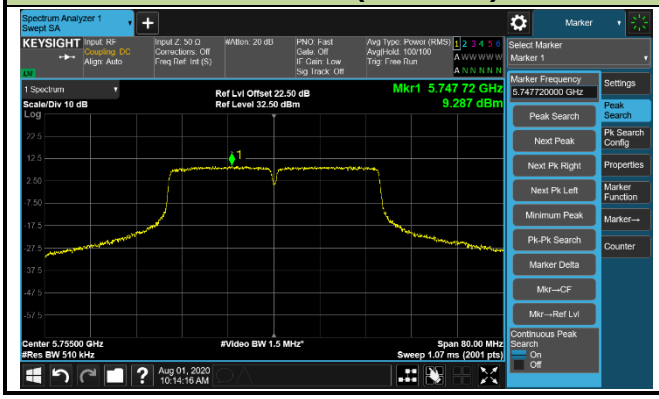
802.11n-HT40 Power Spectral Density - Ant 0 / Ant 0 + 1

Channel 38 (5190MHz)

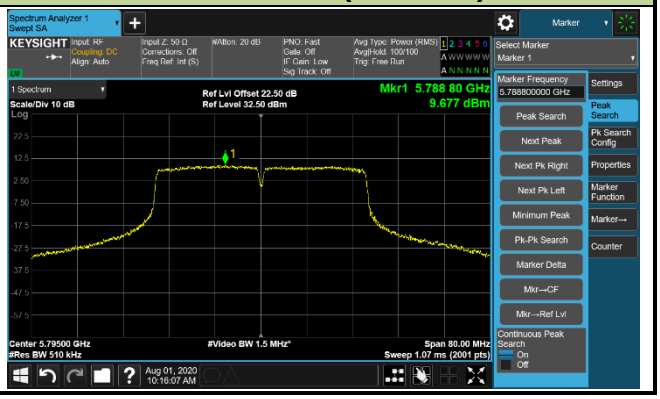


Channel 46 (5230MHz)

Channel 151 (5755MHz)



Channel 159 (5795MHz)



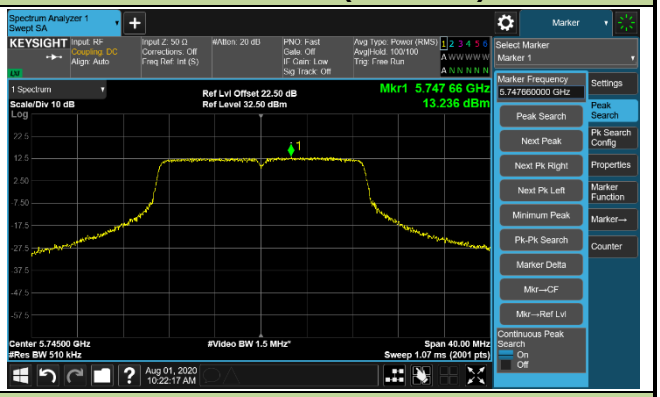
802.11ac-VHT20 Power Spectral Density - Ant 0 / Ant 0 + 1

Channel 36 (5180MHz)

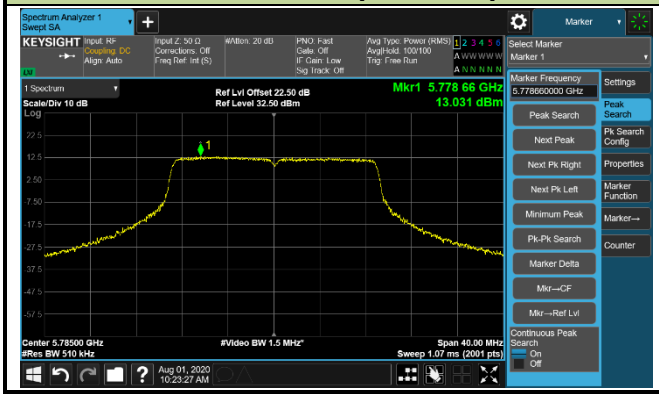
Channel 44 (5220MHz)

Channel 48 (5240MHz)

Channel 149 (5745MHz)



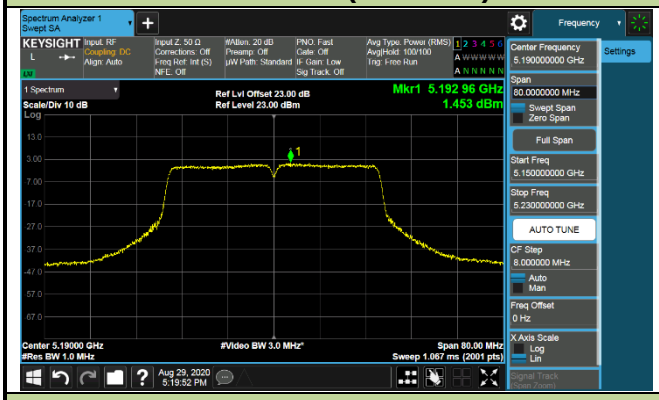
Channel 157 (5785MHz)



Channel 165 (5825MHz)

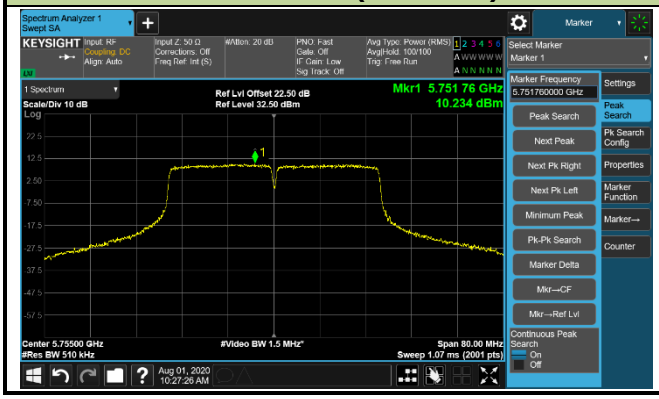
802.11ac-VHT40 Power Spectral Density - Ant 0 / Ant 0 + 1

Channel 38 (5190MHz)

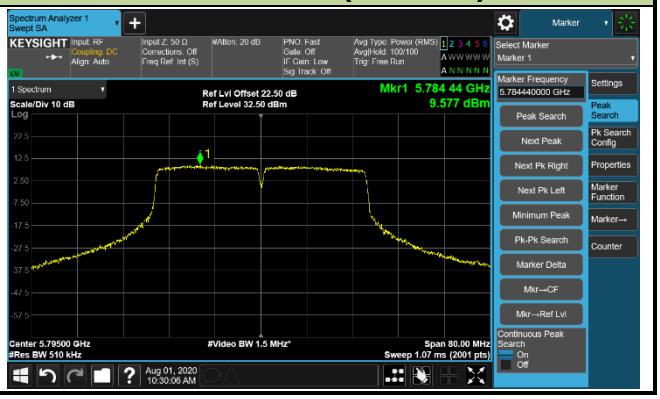


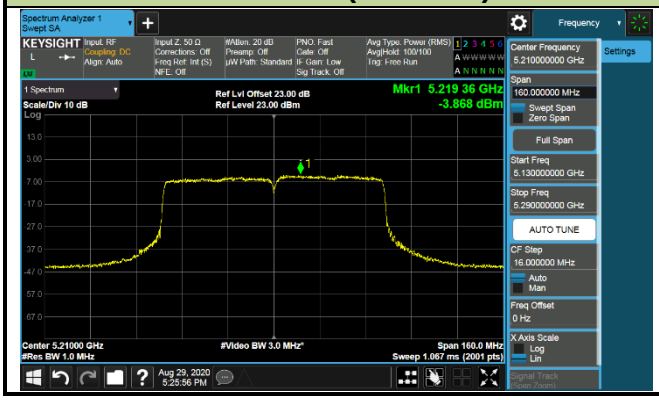
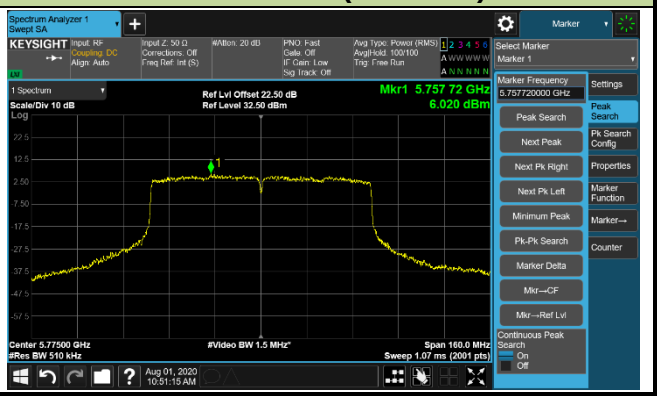
Channel 46 (5230MHz)

Channel 151 (5755MHz)



Channel 159 (5795MHz)



802.11ac-VHT80 Power Spectral Density - Ant 0 / Ant 0 + 1	
Channel 42 (5210MHz)	Channel 155 (5775MHz)
	

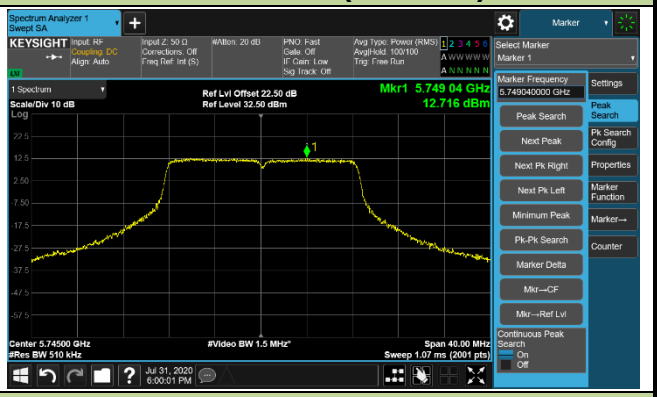
802.11a Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 36 (5180MHz)

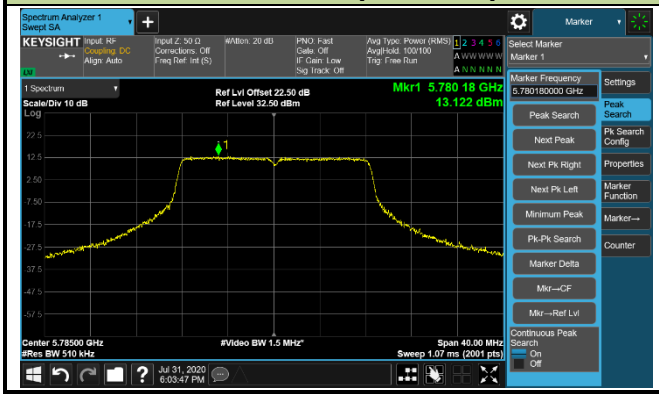
Channel 44 (5220MHz)

Channel 48 (5240MHz)

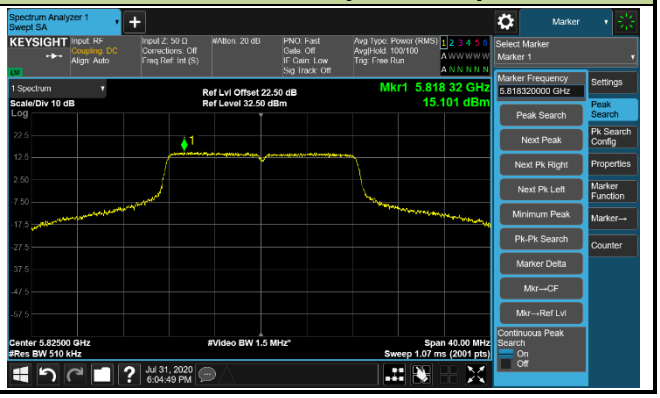
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



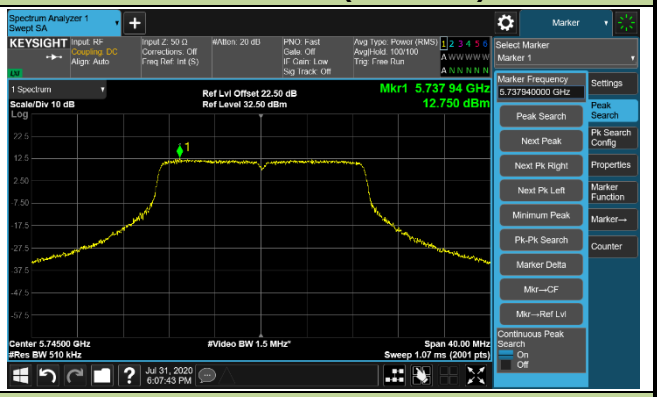
802.11n-HT20 Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 36 (5180MHz)

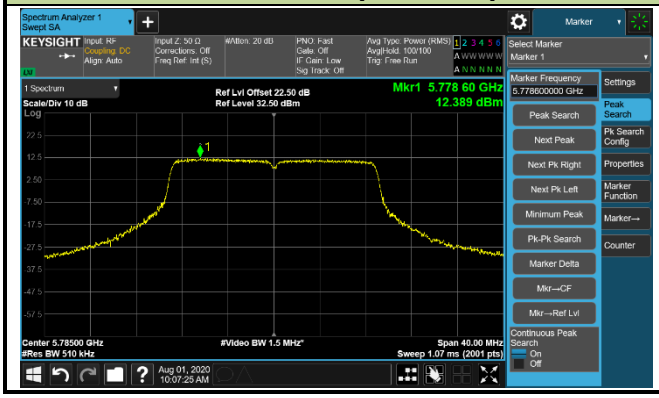
Channel 44 (5220MHz)

Channel 48 (5240MHz)

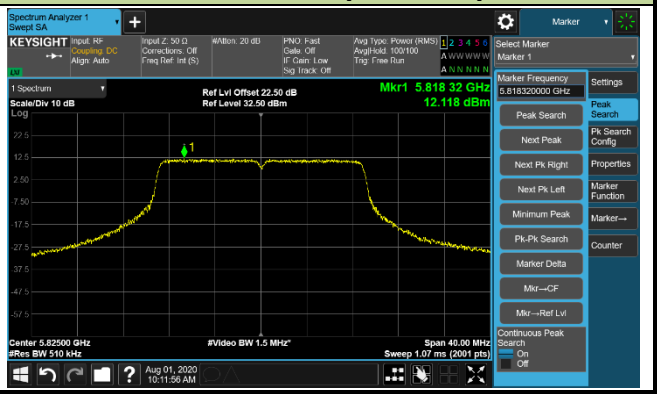
Channel 149 (5745MHz)



Channel 157 (5785MHz)

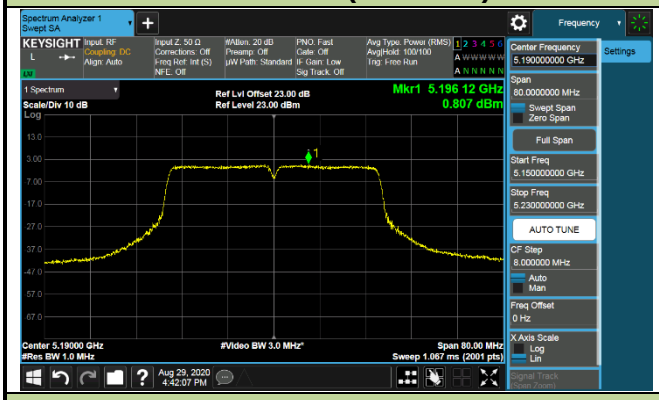


Channel 165 (5825MHz)



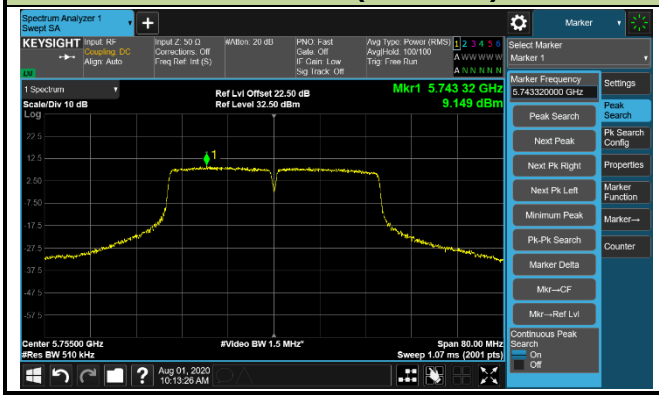
802.11n-HT40 Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 38 (5190MHz)



Channel 46 (5230MHz)

Channel 151 (5755MHz)



Channel 159 (5795MHz)

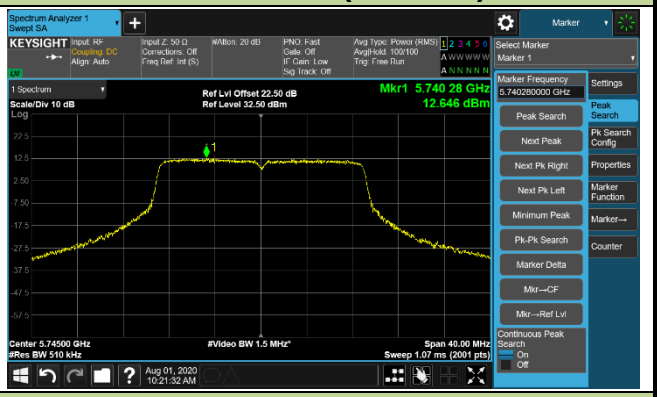
802.11ac-VHT20 Power Spectral Density - Ant 1 / Ant 0 + 1

Channel 36 (5180MHz)

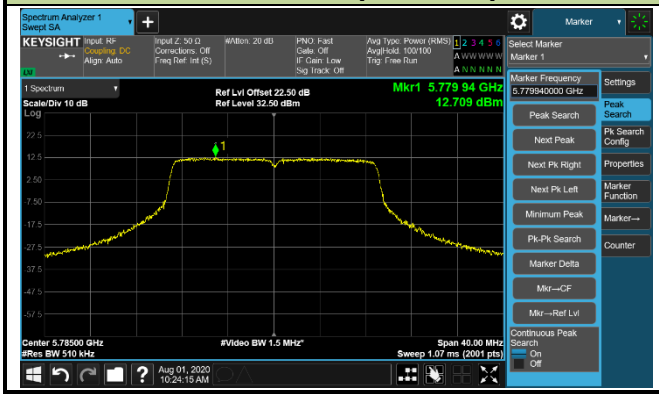
Channel 44 (5220MHz)

Channel 48 (5240MHz)

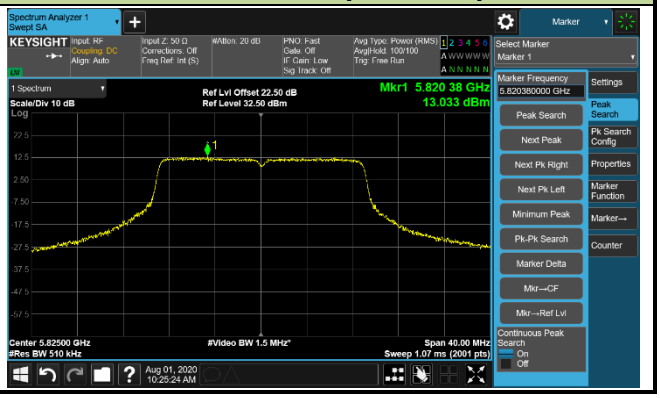
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

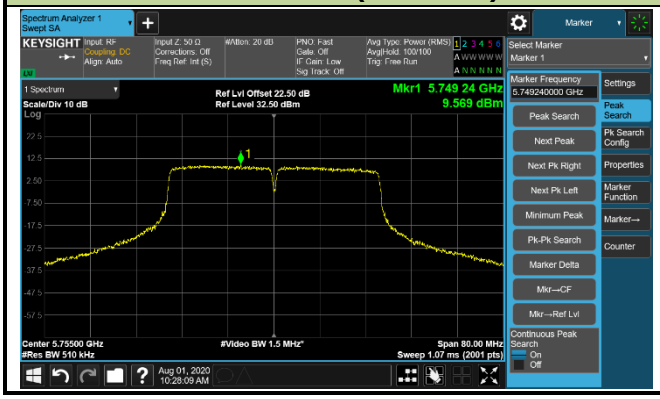


802.11ac-VHT40 Power Spectral Density - Ant 1 / Ant 0 + 1

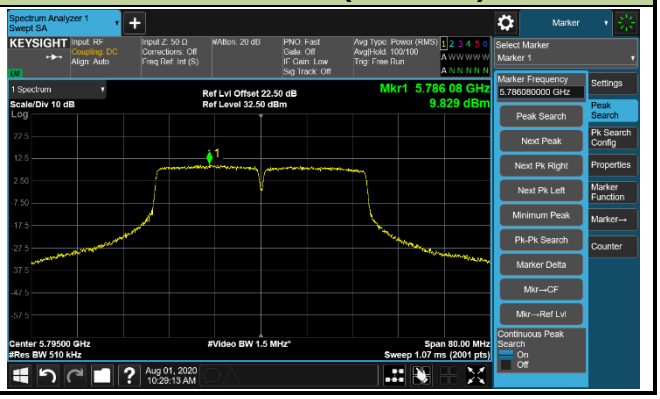
Channel 38 (5190MHz)

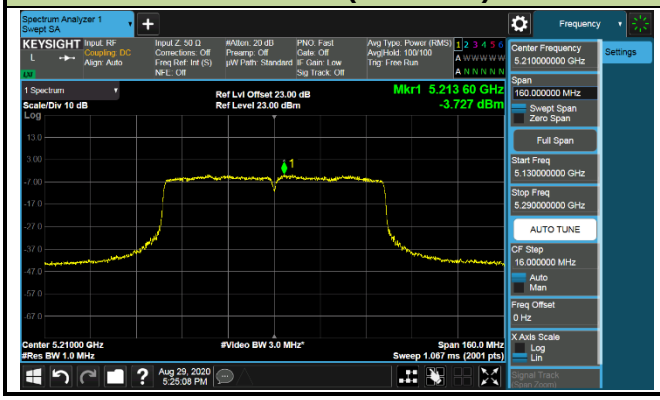
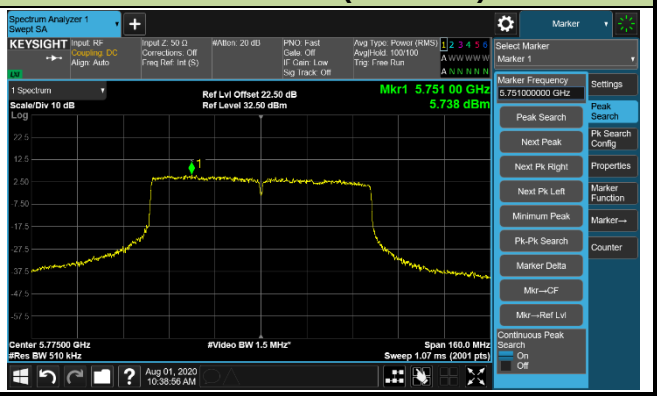
Channel 46 (5230MHz)

Channel 151 (5755MHz)



Channel 159 (5795MHz)



802.11ac-VHT80 Power Spectral Density - Ant 1 / Ant 0 + 1	
Channel 42 (5210MHz)	Channel 155 (5775MHz)
	

6.6. Frequency Stability Measurement

6.6.1.Test Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

6.6.2.Test Procedure Used

Frequency Stability Under Temperature Variations:

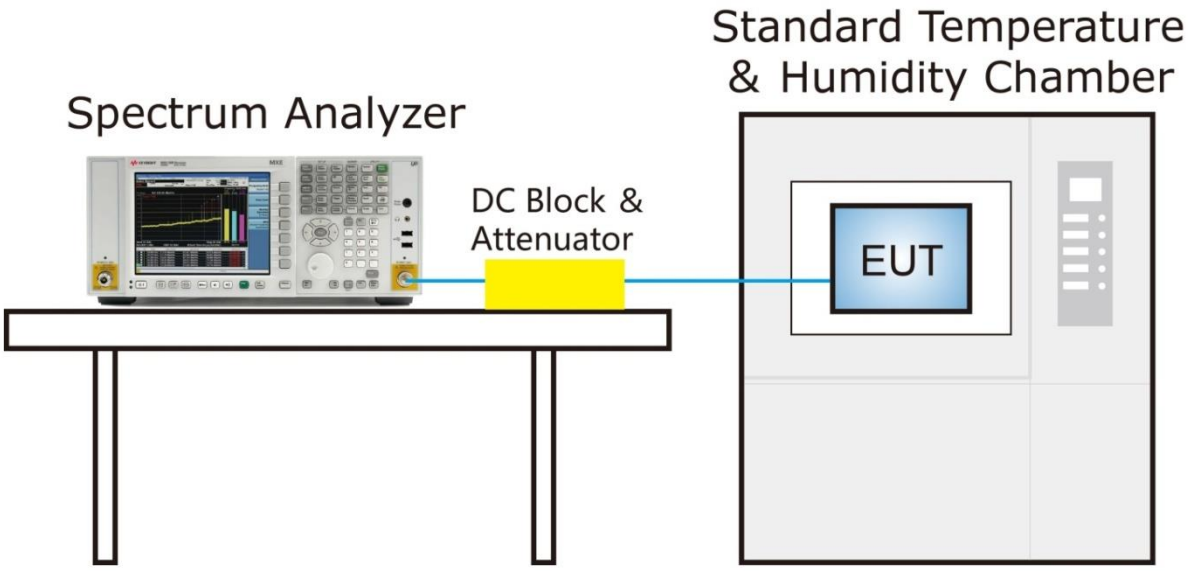
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20℃ operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10℃ decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20℃. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation (±15%) and endpoint, recordthe maximum frequency change.For hand-carried battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

6.6.3.Test Setup



6.6.4.Test Result

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	SIP-SR5
Test Engineer	Alisa Deng	Test Date	2020/08/01
Test Mode	5180MHz (Carrier Mode)		

Voltage (V_{DC})	Temperature (°C)	Frequency Tolerance (ppm)			
		0 minutes	2 minutes	5 minutes	10 minutes
3.3	- 30	19.2	18.5	18.6	19.0
	- 20	19.1	18.6	19.1	19.4
	- 10	19.1	18.2	18.5	19.0
	0	19.1	17.9	18.5	18.4
	+ 10	19.0	19.4	18.9	18.5
	+ 20 (Ref)	18.9	18.5	18.6	18.3
	+ 30	18.9	18.6	18.4	19.2
	+ 40	18.8	18.6	18.7	19.4
	+ 50	18.8	17.9	18.5	18.8
3.5	+ 20	18.8	18.6	19.5	18.4
3.2	+ 20	18.8	18.3	18.6	18.9

Note 1: Frequency Tolerance (ppm) = {[Measured Frequency (MHz) – Declared Frequency (MHz)] / Declared Frequency (MHz)} *10^6.

Note 2: High and Low voltage are declared by the manufacturer.

6.7. Radiated Spurious Emission Measurement

6.7.1.Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15.209 Limit		
Frequency (MHz)	Field Strength (Mv/m)	Measured Distance (m)
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 – 30	30	30
30 – 88	100	3
88 – 216	150	3
216 – 960	200	3
Above 960	500	3

6.7.2.Test Procedure Used

KDB 789033 D02v02r01- Section G

6.7.3.Test Setting

Table 1–RBW as a function of frequency

Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

Quasi-Peak Measurements below 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

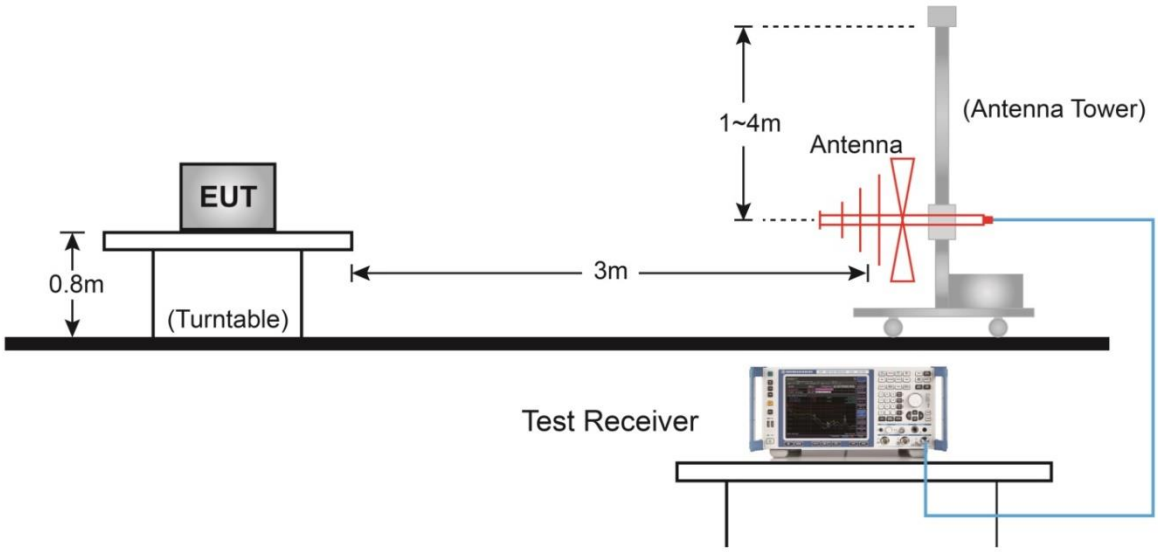
Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
1. VBW,Ifthe EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

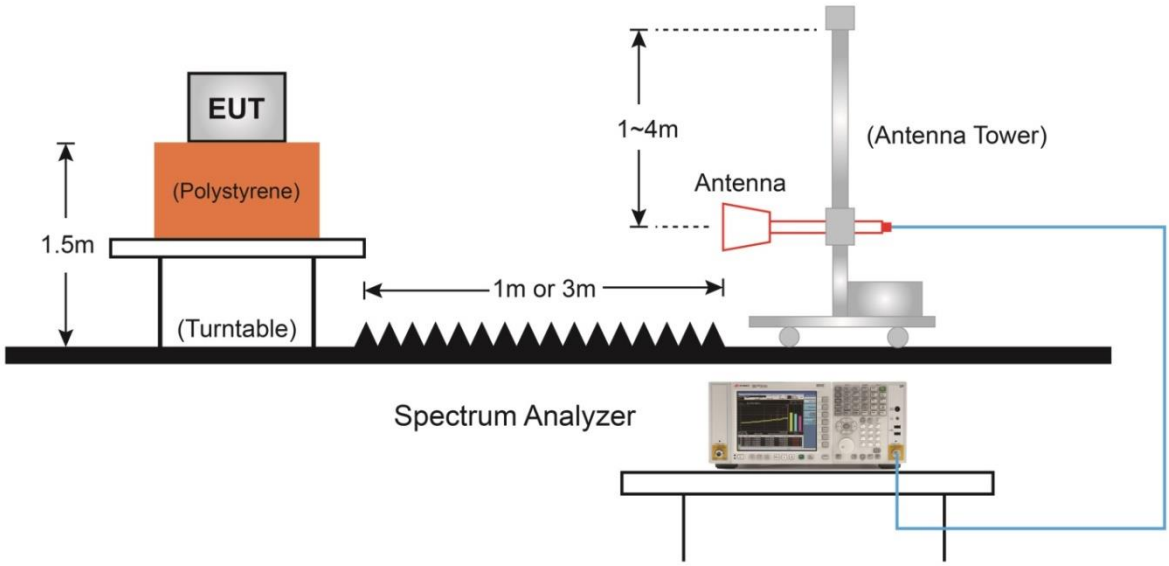
   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
3. Detector = Peak
4. Sweep time = auto
5. Trace mode = max hold
2. Trace was allowed to stabilize

6.7.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



6.7.5.Test Result

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11a - Ant 0 + 1	Test Channel	36
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7528.0	37.2	10.9	48.1	74.0	-25.9	Peak	Horizontal
	8216.5	36.7	11.4	48.1	74.0	-25.9	Peak	Horizontal
*	8692.5	35.5	13.1	48.6	68.2	-19.6	Peak	Horizontal
*	9568.0	34.3	14.6	48.9	68.2	-19.3	Peak	Horizontal
	7664.0	36.6	10.5	47.1	74.0	-26.9	Peak	Vertical
	8174.0	36.1	11.4	47.5	74.0	-26.5	Peak	Vertical
*	8709.5	35.0	12.9	47.9	68.2	-20.3	Peak	Vertical
*	9602.0	34.6	14.4	49.0	68.2	-19.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11a - Ant 0 + 1	Test Channel	44
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7655.5	37.6	10.4	48.0	74.0	-26.0	Peak	Horizontal
	8174.0	36.5	11.4	47.9	74.0	-26.1	Peak	Horizontal
*	8616.0	35.9	12.4	48.3	68.2	-19.9	Peak	Horizontal
*	9508.5	34.4	14.7	49.1	68.2	-19.1	Peak	Horizontal
	7604.5	37.8	10.8	48.6	74.0	-25.4	Peak	Vertical
	8140.0	37.2	11.3	48.5	74.0	-25.5	Peak	Vertical
*	8607.5	36.8	12.2	49.0	68.2	-19.2	Peak	Vertical
*	9568.0	35.1	14.6	49.7	68.2	-18.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11a - Ant 0 + 1	Test Channel	48
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7604.5	37.0	10.8	47.8	74.0	-26.2	Peak	Horizontal
	8386.5	35.2	11.1	46.3	74.0	-27.7	Peak	Horizontal
*	8735.0	34.5	12.7	47.2	68.2	-21.0	Peak	Horizontal
*	9610.5	35.4	14.4	49.8	68.2	-18.4	Peak	Horizontal
	7451.5	36.5	11.0	47.5	74.0	-26.5	Peak	Vertical
	8369.5	36.1	11.1	47.2	74.0	-26.8	Peak	Vertical
*	8692.5	34.7	13.1	47.8	68.2	-20.4	Peak	Vertical
*	9602.0	34.5	14.4	48.9	68.2	-19.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11a - Ant 0 + 1	Test Channel	149
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7638.5	36.8	10.5	47.3	74.0	-26.7	Peak	Horizontal
	8454.5	37.3	11.6	48.9	74.0	-25.1	Peak	Horizontal
*	8735.0	35.1	12.7	47.8	68.2	-20.4	Peak	Horizontal
*	9644.5	35.3	14.4	49.7	68.2	-18.5	Peak	Horizontal
	7536.5	36.2	10.8	47.0	74.0	-27.0	Peak	Vertical
*	7876.5	35.6	11.2	46.8	68.2	-21.4	Peak	Vertical
*	8769.0	35.4	12.9	48.3	68.2	-19.9	Peak	Vertical
	11490.0	39.0	16.3	55.3	74.0	-18.7	Peak	Vertical
	11490.0	27.4	16.3	43.7	54.0	-10.3	Average	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11a - Ant 0 + 1	Test Channel	157
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7528.0	36.8	10.9	47.7	74.0	-26.3	Peak	Horizontal
*	7953.0	35.9	11.7	47.6	68.2	-20.6	Peak	Horizontal
*	8896.5	35.8	12.9	48.7	68.2	-19.5	Peak	Horizontal
	11395.5	36.6	15.8	52.4	74.0	-21.6	Peak	Horizontal
	7443.0	36.0	11.0	47.0	74.0	-27.0	Peak	Vertical
*	7876.5	35.6	11.2	46.8	68.2	-21.4	Peak	Vertical
*	8658.5	35.1	12.8	47.9	68.2	-20.3	Peak	Vertical
	12237.0	36.5	15.2	51.7	74.0	-22.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11a - Ant 0 + 1	Test Channel	165
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7426.0	37.1	10.8	47.9	74.0	-26.1	Peak	Horizontal
*	7885.0	35.8	11.1	46.9	68.2	-21.3	Peak	Horizontal
*	8633.0	35.0	12.2	47.2	68.2	-21.0	Peak	Horizontal
	11378.5	35.3	15.8	51.1	74.0	-22.9	Peak	Horizontal
	7468.5	37.1	10.9	48.0	74.0	-26.0	Peak	Vertical
*	7876.5	35.0	11.2	46.2	68.2	-22.0	Peak	Vertical
*	8743.5	34.5	12.8	47.3	68.2	-20.9	Peak	Vertical
	11710.0	34.4	15.2	49.6	74.0	-24.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	36
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7536.5	36.5	10.8	47.3	74.0	-26.7	Peak	Horizontal
*	7885.0	35.5	11.1	46.6	68.2	-21.6	Peak	Horizontal
*	8811.5	34.6	13.3	47.9	68.2	-20.3	Peak	Horizontal
	11208.5	36.1	15.9	52.0	74.0	-22.0	Peak	Horizontal
	7460.0	37.3	11.0	48.3	74.0	-25.7	Peak	Vertical
*	7808.5	36.5	11.0	47.5	68.2	-20.7	Peak	Vertical
*	8650.0	37.3	12.9	50.2	68.2	-18.0	Peak	Vertical
	11531.5	36.9	15.9	52.8	74.0	-21.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	44
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7409.0	37.3	10.7	48.0	74.0	-26.0	Peak	Horizontal
*	7953.0	34.8	11.7	46.5	68.2	-21.7	Peak	Horizontal
*	8769.0	35.8	12.9	48.7	68.2	-19.5	Peak	Horizontal
	11055.5	36.9	16.0	52.9	74.0	-21.1	Peak	Horizontal
	7468.5	36.0	10.9	46.9	74.0	-27.1	Peak	Vertical
*	7876.5	35.0	11.2	46.2	68.2	-22.0	Peak	Vertical
*	8658.5	34.9	12.8	47.7	68.2	-20.5	Peak	Vertical
	11038.5	34.4	16.3	50.7	74.0	-23.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	48
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7375.0	36.5	10.8	47.3	74.0	-26.7	Peak	Horizontal
*	8004.0	36.6	11.3	47.9	68.2	-20.3	Peak	Horizontal
*	8760.5	35.1	12.9	48.0	68.2	-20.2	Peak	Horizontal
	11387.0	36.4	15.8	52.2	74.0	-21.8	Peak	Horizontal
	7519.5	36.8	10.9	47.7	74.0	-26.3	Peak	Vertical
*	7808.5	35.7	11.0	46.7	68.2	-21.5	Peak	Vertical
*	8701.0	35.1	13.0	48.1	68.2	-20.1	Peak	Vertical
	11327.5	35.6	15.7	51.3	74.0	-22.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	149
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7502.5	36.9	10.8	47.7	74.0	-26.3	Peak	Horizontal
*	7910.5	35.8	11.2	47.0	68.2	-21.2	Peak	Horizontal
*	8769.0	35.3	12.9	48.2	68.2	-20.0	Peak	Horizontal
	11098.0	37.1	16.1	53.2	74.0	-20.8	Peak	Horizontal
	7528.0	37.3	10.9	48.2	74.0	-25.8	Peak	Vertical
*	7910.5	35.2	11.2	46.4	68.2	-21.8	Peak	Vertical
*	8718.0	35.9	12.8	48.7	68.2	-19.5	Peak	Vertical
	11490.0	38.3	16.3	54.6	74.0	-19.4	Peak	Vertical
	11490.0	26.8	16.3	43.1	54.0	-10.9	Average	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	157
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7502.5	37.0	10.8	47.8	74.0	-26.2	Peak	Horizontal
*	7876.5	35.3	11.2	46.5	68.2	-21.7	Peak	Horizontal
*	8667.0	35.1	12.5	47.6	68.2	-20.6	Peak	Horizontal
	11166.0	36.0	15.8	51.8	74.0	-22.2	Peak	Horizontal
	7519.5	37.6	10.9	48.5	74.0	-25.5	Peak	Vertical
*	7876.5	35.1	11.2	46.3	68.2	-21.9	Peak	Vertical
*	8735.0	34.6	12.7	47.3	68.2	-20.9	Peak	Vertical
	10877.0	35.9	16.8	52.7	74.0	-21.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	165
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7587.5	36.9	10.7	47.6	74.0	-26.4	Peak	Horizontal
*	7876.5	35.5	11.2	46.7	68.2	-21.5	Peak	Horizontal
*	8709.5	35.1	12.9	48.0	68.2	-20.2	Peak	Horizontal
	11497.5	37.0	16.2	53.2	74.0	-20.8	Peak	Horizontal
	7604.5	37.4	10.8	48.2	74.0	-25.8	Peak	Vertical
*	7902.0	35.8	11.0	46.8	68.2	-21.4	Peak	Vertical
*	8854.0	34.8	12.8	47.6	68.2	-20.6	Peak	Vertical
	10860.0	35.2	16.5	51.7	74.0	-22.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11n-HT40 - Ant 0 + 1	Test Channel	38
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7528.0	36.5	10.9	47.4	74.0	-26.6	Peak	Horizontal
*	7851.0	35.6	11.0	46.6	68.2	-21.6	Peak	Horizontal
*	8684.0	35.0	12.9	47.9	68.2	-20.3	Peak	Horizontal
	11438.0	35.9	16.1	52.0	74.0	-22.0	Peak	Horizontal
	7468.5	36.1	10.9	47.0	74.0	-27.0	Peak	Vertical
*	7817.0	36.0	10.9	46.9	68.2	-21.3	Peak	Vertical
*	8658.5	35.5	12.8	48.3	68.2	-19.9	Peak	Vertical
	11412.5	36.2	15.9	52.1	74.0	-21.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11n-HT40 - Ant 0 + 1	Test Channel	46
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7519.5	36.9	10.9	47.8	74.0	-26.2	Peak	Horizontal
*	8012.5	36.6	11.4	48.0	68.2	-20.2	Peak	Horizontal
*	8641.5	35.8	12.5	48.3	68.2	-19.9	Peak	Horizontal
	11608.0	36.6	15.8	52.4	74.0	-21.6	Peak	Horizontal
	7528.0	36.8	10.9	47.7	74.0	-26.3	Peak	Vertical
*	7910.5	35.5	11.2	46.7	68.2	-21.5	Peak	Vertical
*	8667.0	35.8	12.5	48.3	68.2	-19.9	Peak	Vertical
	11242.5	36.8	16.2	53.0	74.0	-21.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11n-HT40 - Ant 0 + 1	Test Channel	151
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7528.0	35.8	10.9	46.7	74.0	-27.3	Peak	Horizontal
*	7808.5	35.4	11.0	46.4	68.2	-21.8	Peak	Horizontal
*	8769.0	34.6	12.9	47.5	68.2	-20.7	Peak	Horizontal
	11480.5	36.3	16.2	52.5	74.0	-21.5	Peak	Horizontal
	7366.5	36.6	10.9	47.5	74.0	-26.5	Peak	Vertical
*	7910.5	35.5	11.2	46.7	68.2	-21.5	Peak	Vertical
*	8735.0	35.9	12.7	48.6	68.2	-19.6	Peak	Vertical
	10945.0	35.0	16.8	51.8	74.0	-22.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11n-HT40 - Ant 0 + 1	Test Channel	159
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7434.5	35.6	10.9	46.5	74.0	-27.5	Peak	Horizontal
*	7876.5	35.4	11.2	46.6	68.2	-21.6	Peak	Horizontal
*	8667.0	34.8	12.5	47.3	68.2	-20.9	Peak	Horizontal
	11514.5	36.3	15.9	52.2	74.0	-21.8	Peak	Horizontal
	7638.5	37.5	10.5	48.0	74.0	-26.0	Peak	Vertical
*	7817.0	37.0	10.9	47.9	68.2	-20.3	Peak	Vertical
*	8684.0	36.0	12.9	48.9	68.2	-19.3	Peak	Vertical
	11115.0	36.6	15.8	52.4	74.0	-21.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	36
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7434.5	36.0	10.9	46.9	74.0	-27.1	Peak	Horizontal
*	7893.5	36.9	11.0	47.9	68.2	-20.3	Peak	Horizontal
*	8820.0	35.9	13.2	49.1	68.2	-19.1	Peak	Horizontal
	10936.5	36.7	16.6	53.3	74.0	-20.7	Peak	Horizontal
	7502.5	36.8	10.8	47.6	74.0	-26.4	Peak	Vertical
*	7910.5	36.0	11.2	47.2	68.2	-21.0	Peak	Vertical
*	8650.0	36.1	12.9	49.0	68.2	-19.2	Peak	Vertical
	11531.5	36.3	15.9	52.2	74.0	-21.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	44
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7536.5	36.3	10.8	47.1	74.0	-26.9	Peak	Horizontal
*	8650.0	36.3	12.9	49.2	68.2	-19.0	Peak	Horizontal
*	10273.5	35.6	15.8	51.4	68.2	-16.8	Peak	Horizontal
	11489.0	36.7	16.3	53.0	74.0	-21.0	Peak	Horizontal
	7638.5	37.6	10.5	48.1	74.0	-25.9	Peak	Vertical
*	8811.5	35.3	13.3	48.6	68.2	-19.6	Peak	Vertical
*	10052.5	35.3	15.0	50.3	68.2	-17.9	Peak	Vertical
	11633.5	36.7	15.3	52.0	74.0	-22.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	48
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7545.0	37.4	10.8	48.2	74.0	-25.8	Peak	Horizontal
*	8012.5	37.3	11.4	48.7	68.2	-19.5	Peak	Horizontal
*	8701.0	36.5	13.0	49.5	68.2	-18.7	Peak	Horizontal
	11472.0	36.1	16.1	52.2	74.0	-21.8	Peak	Horizontal
	7528.0	37.6	10.9	48.5	74.0	-25.5	Peak	Vertical
*	8650.0	37.4	12.9	50.3	68.2	-17.9	Peak	Vertical
*	9746.5	36.4	15.3	51.7	68.2	-16.5	Peak	Vertical
	10851.5	36.5	16.5	53.0	74.0	-21.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	149
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7528.0	37.7	10.9	48.6	74.0	-25.4	Peak	Horizontal
*	8896.5	36.5	12.9	49.4	68.2	-18.8	Peak	Horizontal
*	9746.5	37.1	15.3	52.4	68.2	-15.8	Peak	Horizontal
	11327.5	34.2	15.7	49.9	74.0	-24.1	Peak	Horizontal
	7485.5	37.1	10.8	47.9	74.0	-26.1	Peak	Vertical
*	8803.0	35.8	13.0	48.8	68.2	-19.4	Peak	Vertical
*	10137.5	35.7	15.6	51.3	68.2	-16.9	Peak	Vertical
	11490.4	37.3	16.3	53.6	74.0	-20.4	Peak	Vertical
	11490.4	25.8	16.3	42.1	54.0	-11.9	Average	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	157
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7519.5	37.5	10.9	48.4	74.0	-25.6	Peak	Horizontal
*	7987.0	36.7	11.3	48.0	68.2	-20.2	Peak	Horizontal
*	8777.5	36.6	12.8	49.4	68.2	-18.8	Peak	Horizontal
*	10239.5	35.8	15.7	51.5	68.2	-16.7	Peak	Horizontal
	7536.5	37.3	10.8	48.1	74.0	-25.9	Peak	Vertical
*	7944.5	36.8	11.5	48.3	68.2	-19.9	Peak	Vertical
*	8599.0	37.9	12.0	49.9	68.2	-18.3	Peak	Vertical
	11523.0	37.0	15.9	52.9	74.0	-21.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	165
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7519.5	37.2	10.9	48.1	74.0	-25.9	Peak	Horizontal
*	7936.0	36.6	11.4	48.0	68.2	-20.2	Peak	Horizontal
*	8539.5	36.8	11.9	48.7	68.2	-19.5	Peak	Horizontal
	11081.0	36.1	16.3	52.4	74.0	-21.6	Peak	Horizontal
	7443.0	36.8	11.0	47.8	74.0	-26.2	Peak	Vertical
*	7978.5	36.6	11.4	48.0	68.2	-20.2	Peak	Vertical
*	8658.5	36.7	12.8	49.5	68.2	-18.7	Peak	Vertical
	11642.0	37.1	15.3	52.4	74.0	-21.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11ac-VHT40 - Ant 0 + 1	Test Channel	38
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7349.5	36.8	10.9	47.7	74.0	-26.3	Peak	Horizontal
*	7868.0	36.7	11.2	47.9	68.2	-20.3	Peak	Horizontal
*	8760.5	37.7	12.9	50.6	68.2	-17.6	Peak	Horizontal
	10877.0	35.4	16.8	52.2	74.0	-21.8	Peak	Horizontal
	7502.5	38.2	10.8	49.0	74.0	-25.0	Peak	Vertical
*	8905.0	37.8	13.1	50.9	68.2	-17.3	Peak	Vertical
*	9916.5	35.9	15.2	51.1	68.2	-17.1	Peak	Vertical
	11574.0	37.1	15.6	52.7	74.0	-21.3	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11ac-VHT40 - Ant 0 + 1	Test Channel	46
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7502.5	37.0	10.8	47.8	74.0	-26.2	Peak	Horizontal
*	8658.5	36.2	12.8	49.0	68.2	-19.2	Peak	Horizontal
*	9729.5	36.0	15.1	51.1	68.2	-17.1	Peak	Horizontal
	11106.5	35.9	16.0	51.9	74.0	-22.1	Peak	Horizontal
	7562.0	37.2	10.8	48.0	74.0	-26.0	Peak	Vertical
*	8701.0	36.5	13.0	49.5	68.2	-18.7	Peak	Vertical
*	10265.0	36.1	15.7	51.8	68.2	-16.4	Peak	Vertical
	11497.5	35.9	16.2	52.1	74.0	-21.9	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11ac-VHT40 - Ant 0 + 1	Test Channel	151
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7511.0	37.0	10.9	47.9	74.0	-26.1	Peak	Horizontal
*	8718.0	36.7	12.8	49.5	68.2	-18.7	Peak	Horizontal
*	9780.5	35.7	15.2	50.9	68.2	-17.3	Peak	Horizontal
	11557.0	36.8	15.5	52.3	74.0	-21.7	Peak	Horizontal
	7502.5	38.3	10.8	49.1	74.0	-24.9	Peak	Vertical
*	8811.5	34.7	13.3	48.0	68.2	-20.2	Peak	Vertical
*	10129.0	34.7	15.8	50.5	68.2	-17.7	Peak	Vertical
	11897.0	36.3	15.3	51.6	74.0	-22.4	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11ac-VHT40 - Ant 0 + 1	Test Channel	159
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7587.5	37.7	10.7	48.4	74.0	-25.6	Peak	Horizontal
*	7953.0	35.3	11.7	47.0	68.2	-21.2	Peak	Horizontal
*	8692.5	35.7	13.1	48.8	68.2	-19.4	Peak	Horizontal
	11633.5	37.1	15.3	52.4	74.0	-21.6	Peak	Horizontal
	7511.0	36.8	10.9	47.7	74.0	-26.3	Peak	Vertical
*	7902.0	36.1	11.0	47.1	68.2	-21.1	Peak	Vertical
*	8616.0	36.4	12.4	48.8	68.2	-19.4	Peak	Vertical
	10911.0	36.5	16.4	52.9	74.0	-21.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Mode	802.11ac-VHT80 - Ant 0 + 1	Test Channel	42
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7400.5	37.8	10.7	48.5	74.0	-25.5	Peak	Horizontal
*	7885.0	36.9	11.1	48.0	68.2	-20.2	Peak	Horizontal
*	8684.0	36.7	12.9	49.6	68.2	-18.6	Peak	Horizontal
	11140.5	37.1	15.9	53.0	74.0	-21.0	Peak	Horizontal
	7528.0	37.5	10.9	48.4	74.0	-25.6	Peak	Vertical
*	7953.0	36.4	11.7	48.1	68.2	-20.1	Peak	Vertical
*	8930.5	36.8	13.1	49.9	68.2	-18.3	Peak	Vertical
	10758.0	36.3	16.0	52.3	74.0	-21.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Dillon Diao	Test Date	2020/07/31
Test Site	WZ-AC1	Test Date	2020/07/31
Test Mode	802.11ac-VHT80 - Ant 0 + 1	Test Channel	155
Antenna	Dipole Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7613.0	37.5	10.7	48.2	74.0	-25.8	Peak	Horizontal
*	7919.0	36.6	11.3	47.9	68.2	-20.3	Peak	Horizontal
*	8692.5	36.5	13.1	49.6	68.2	-18.6	Peak	Horizontal
	10826.0	35.5	16.4	51.9	74.0	-22.1	Peak	Horizontal
	7528.0	38.4	10.9	49.3	74.0	-24.7	Peak	Vertical
*	7944.5	38.0	11.5	49.5	68.2	-18.7	Peak	Vertical
*	8692.5	36.0	13.1	49.1	68.2	-19.1	Peak	Vertical
	10877.0	35.4	16.8	52.2	74.0	-21.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11a - Ant 0 + 1	Test Channel	36
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7434.5	33.9	10.9	44.8	74.0	-29.2	Peak	Horizontal
	8284.5	35.1	11.2	46.3	74.0	-27.7	Peak	Horizontal
*	10163.0	32.1	15.2	47.3	68.2	-20.9	Peak	Horizontal
*	12840.5	34.9	15.2	50.1	68.2	-18.1	Peak	Horizontal
	7647.0	35.6	10.4	46.0	74.0	-28.0	Peak	Vertical
	8242.0	34.3	11.2	45.5	74.0	-28.5	Peak	Vertical
*	10503.0	35.5	16.0	51.5	68.2	-16.7	Peak	Vertical
*	13010.5	34.5	15.6	50.1	68.2	-18.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11a - Ant 0 + 1	Test Channel	44
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7570.5	34.5	10.8	45.3	74.0	-28.7	Peak	Horizontal
	8191.0	34.1	11.4	45.5	74.0	-28.5	Peak	Horizontal
*	10146.0	33.0	15.4	48.4	68.2	-19.8	Peak	Horizontal
*	13129.5	33.2	15.6	48.8	68.2	-19.4	Peak	Horizontal
	7341.0	34.9	10.9	45.8	74.0	-28.2	Peak	Vertical
	8165.5	34.6	11.5	46.1	74.0	-27.9	Peak	Vertical
*	9806.0	31.9	15.2	47.1	68.2	-21.1	Peak	Vertical
*	12891.5	33.8	15.3	49.1	68.2	-19.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11a - Ant 0 + 1	Test Channel	48
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7494.0	35.1	10.8	45.9	74.0	-28.1	Peak	Horizontal
	8199.5	33.5	11.4	44.9	74.0	-29.1	Peak	Horizontal
*	9942.0	31.9	15.0	46.9	68.2	-21.3	Peak	Horizontal
*	13129.5	34.5	15.6	50.1	68.2	-18.1	Peak	Horizontal
	7502.5	36.1	10.8	46.9	74.0	-27.1	Peak	Vertical
	8327.0	35.3	10.9	46.2	74.0	-27.8	Peak	Vertical
*	8718.0	33.5	12.8	46.3	68.2	-21.9	Peak	Vertical
*	9619.0	35.6	14.6	50.2	68.2	-18.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11a - Ant 0 + 1	Test Channel	149
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7502.5	34.6	10.8	45.4	74.0	-28.6	Peak	Horizontal
	8199.5	33.5	11.4	44.9	74.0	-29.1	Peak	Horizontal
*	9814.5	31.5	15.3	46.8	68.2	-21.4	Peak	Horizontal
*	12951.0	33.4	15.6	49.0	68.2	-19.2	Peak	Horizontal
	7434.5	34.6	10.9	45.5	74.0	-28.5	Peak	Vertical
	8276.0	33.4	11.2	44.6	74.0	-29.4	Peak	Vertical
*	9865.5	31.8	15.5	47.3	68.2	-20.9	Peak	Vertical
*	13172.0	32.9	15.5	48.4	68.2	-19.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11a - Ant 0 + 1	Test Channel	157
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7409.0	33.6	10.7	44.3	74.0	-29.7	Peak	Horizontal
	8233.5	34.7	11.3	46.0	74.0	-28.0	Peak	Horizontal
*	8854.0	33.4	12.8	46.2	68.2	-22.0	Peak	Horizontal
*	9874.0	31.4	15.6	47.0	68.2	-21.2	Peak	Horizontal
	7647.0	34.4	10.4	44.8	74.0	-29.2	Peak	Vertical
	8199.5	33.1	11.4	44.5	74.0	-29.5	Peak	Vertical
*	8684.0	33.7	12.9	46.6	68.2	-21.6	Peak	Vertical
*	9942.0	32.1	15.0	47.1	68.2	-21.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11a - Ant 0 + 1	Test Channel	165
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7375.0	35.6	10.8	46.4	74.0	-27.6	Peak	Horizontal
	8267.5	34.1	11.4	45.5	74.0	-28.5	Peak	Horizontal
*	8667.0	34.5	12.5	47.0	68.2	-21.2	Peak	Horizontal
*	9738.0	32.7	15.2	47.9	68.2	-20.3	Peak	Horizontal
	7434.5	33.6	10.9	44.5	74.0	-29.5	Peak	Vertical
	8182.5	32.9	11.4	44.3	74.0	-29.7	Peak	Vertical
*	8794.5	33.3	12.9	46.2	68.2	-22.0	Peak	Vertical
*	10035.5	33.1	15.4	48.5	68.2	-19.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	36
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7638.5	36.3	10.5	46.8	74.0	-27.2	Peak	Horizontal
	8310.0	33.2	11.2	44.4	74.0	-29.6	Peak	Horizontal
*	8675.5	33.2	12.6	45.8	68.2	-22.4	Peak	Horizontal
*	10452.0	31.7	15.6	47.3	68.2	-20.9	Peak	Horizontal
	7579.0	34.0	10.7	44.7	74.0	-29.3	Peak	Vertical
	8199.5	32.8	11.4	44.2	74.0	-29.8	Peak	Vertical
*	8692.5	32.8	13.1	45.9	68.2	-22.3	Peak	Vertical
*	10180.0	33.3	15.9	49.2	68.2	-19.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	44
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7570.5	33.3	10.8	44.1	74.0	-29.9	Peak	Horizontal
	8437.5	34.8	11.4	46.2	74.0	-27.8	Peak	Horizontal
*	8854.0	33.8	12.8	46.6	68.2	-21.6	Peak	Horizontal
*	10350.0	32.1	16.0	48.1	68.2	-20.1	Peak	Horizontal
	7672.5	34.3	10.7	45.0	74.0	-29.0	Peak	Vertical
	8352.5	34.2	11.2	45.4	74.0	-28.6	Peak	Vertical
*	8820.0	32.9	13.2	46.1	68.2	-22.1	Peak	Vertical
*	10027.0	34.1	15.3	49.4	68.2	-18.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	48
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7502.5	36.0	10.8	46.8	74.0	-27.2	Peak	Horizontal
	8284.5	33.7	11.2	44.9	74.0	-29.1	Peak	Horizontal
*	8905.0	33.9	13.1	47.0	68.2	-21.2	Peak	Horizontal
*	9814.5	31.4	15.3	46.7	68.2	-21.5	Peak	Horizontal
	7434.5	33.8	10.9	44.7	74.0	-29.3	Peak	Vertical
	8310.0	34.4	11.2	45.6	74.0	-28.4	Peak	Vertical
*	10086.5	32.4	14.9	47.3	68.2	-20.9	Peak	Vertical
*	13155.0	33.9	15.5	49.4	68.2	-18.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	149
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7502.5	34.6	10.8	45.4	74.0	-28.6	Peak	Horizontal
	8395.0	32.9	11.3	44.2	74.0	-29.8	Peak	Horizontal
*	8786.0	32.6	12.8	45.4	68.2	-22.8	Peak	Horizontal
*	9925.0	31.8	15.1	46.9	68.2	-21.3	Peak	Horizontal
	7409.0	35.7	10.7	46.4	74.0	-27.6	Peak	Vertical
	8174.0	35.0	11.4	46.4	74.0	-27.6	Peak	Vertical
*	8769.0	35.0	12.9	47.9	68.2	-20.3	Peak	Vertical
*	9950.5	33.5	15.0	48.5	68.2	-19.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	157
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7451.5	36.5	11.0	47.5	74.0	-26.5	Peak	Horizontal
	8403.5	35.6	11.4	47.0	74.0	-27.0	Peak	Horizontal
*	8735.0	34.7	12.7	47.4	68.2	-20.8	Peak	Horizontal
*	10205.5	33.6	15.6	49.2	68.2	-19.0	Peak	Horizontal
	7647.0	35.9	10.4	46.3	74.0	-27.7	Peak	Vertical
	8225.0	35.7	11.4	47.1	74.0	-26.9	Peak	Vertical
*	8667.0	35.0	12.5	47.5	68.2	-20.7	Peak	Vertical
*	9772.0	33.4	15.2	48.6	68.2	-19.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11n-HT20 - Ant 0 + 1	Test Channel	165
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7528.0	36.8	10.9	47.7	74.0	-26.3	Peak	Horizontal
	8310.0	35.1	11.2	46.3	74.0	-27.7	Peak	Horizontal
*	8675.5	34.6	12.6	47.2	68.2	-21.0	Peak	Horizontal
*	10163.0	35.7	15.2	50.9	68.2	-17.3	Peak	Horizontal
	7298.5	35.4	10.6	46.0	74.0	-28.0	Peak	Vertical
	8131.5	34.3	11.4	45.7	74.0	-28.3	Peak	Vertical
*	8888.0	34.6	12.7	47.3	68.2	-20.9	Peak	Vertical
*	9908.0	33.2	15.2	48.4	68.2	-19.8	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11n-HT40 - Ant 0 + 1	Test Channel	38
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7638.5	35.8	10.5	46.3	74.0	-27.7	Peak	Horizontal
	8395.0	35.4	11.3	46.7	74.0	-27.3	Peak	Horizontal
*	8888.0	34.6	12.7	47.3	68.2	-20.9	Peak	Horizontal
*	10188.5	33.5	15.9	49.4	68.2	-18.8	Peak	Horizontal
	7638.5	35.6	10.5	46.1	74.0	-27.9	Peak	Vertical
	8335.5	35.6	11.0	46.6	74.0	-27.4	Peak	Vertical
*	8743.5	34.5	12.8	47.3	68.2	-20.9	Peak	Vertical
*	9772.0	32.9	15.2	48.1	68.2	-20.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11n-HT40 - Ant 0 + 1	Test Channel	46
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7655.5	37.2	10.4	47.6	74.0	-26.4	Peak	Horizontal
	8403.5	35.5	11.4	46.9	74.0	-27.1	Peak	Horizontal
*	8692.5	34.7	13.1	47.8	68.2	-20.4	Peak	Horizontal
*	9993.0	34.2	15.1	49.3	68.2	-18.9	Peak	Horizontal
	7528.0	35.7	10.9	46.6	74.0	-27.4	Peak	Vertical
	8182.5	35.6	11.4	47.0	74.0	-27.0	Peak	Vertical
*	8896.5	34.1	12.9	47.0	68.2	-21.2	Peak	Vertical
*	9857.0	32.8	15.4	48.2	68.2	-20.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11n-HT40 - Ant 0 + 1	Test Channel	151
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7434.5	35.6	10.9	46.5	74.0	-27.5	Peak	Horizontal
	8208.0	35.2	11.4	46.6	74.0	-27.4	Peak	Horizontal
*	8862.5	34.1	12.9	47.0	68.2	-21.2	Peak	Horizontal
*	10001.5	33.1	15.1	48.2	68.2	-20.0	Peak	Horizontal
	7672.5	36.5	10.7	47.2	74.0	-26.8	Peak	Vertical
	8131.5	35.1	11.4	46.5	74.0	-27.5	Peak	Vertical
*	8514.0	36.0	11.7	47.7	68.2	-20.5	Peak	Vertical
*	10265.0	34.5	15.7	50.2	68.2	-18.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11n-HT40 - Ant 0 + 1	Test Channel	159
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7468.5	36.7	10.9	47.6	74.0	-26.4	Peak	Horizontal
	8216.5	35.8	11.4	47.2	74.0	-26.8	Peak	Horizontal
*	8709.5	34.7	12.9	47.6	68.2	-20.6	Peak	Horizontal
*	9993.0	34.3	15.1	49.4	68.2	-18.8	Peak	Horizontal
	7511.0	36.9	10.9	47.8	74.0	-26.2	Peak	Vertical
	8420.5	36.7	11.4	48.1	74.0	-25.9	Peak	Vertical
*	8743.5	35.1	12.8	47.9	68.2	-20.3	Peak	Vertical
*	10035.5	34.2	15.4	49.6	68.2	-18.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	36
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7468.5	37.7	10.9	48.6	74.0	-25.4	Peak	Horizontal
	8242.0	37.5	11.2	48.7	74.0	-25.3	Peak	Horizontal
*	8743.5	35.6	12.8	48.4	68.2	-19.8	Peak	Horizontal
*	9874.0	35.1	15.6	50.7	68.2	-17.5	Peak	Horizontal
	7511.0	38.0	10.9	48.9	74.0	-25.1	Peak	Vertical
	8284.5	37.4	11.2	48.6	74.0	-25.4	Peak	Vertical
*	8964.5	36.1	12.9	49.0	68.2	-19.2	Peak	Vertical
*	10239.5	36.0	15.7	51.7	68.2	-16.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	44
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7477.0	35.6	10.8	46.4	74.0	-27.6	Peak	Horizontal
	8242.0	35.1	11.2	46.3	74.0	-27.7	Peak	Horizontal
*	8811.5	34.4	13.3	47.7	68.2	-20.5	Peak	Horizontal
*	9738.0	34.8	15.2	50.0	68.2	-18.2	Peak	Horizontal
	7579.0	35.7	10.7	46.4	74.0	-27.6	Peak	Vertical
	8165.5	35.5	11.5	47.0	74.0	-27.0	Peak	Vertical
*	8701.0	35.0	13.0	48.0	68.2	-20.2	Peak	Vertical
*	9738.0	34.8	15.2	50.0	68.2	-18.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	48
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7443.0	35.1	11.0	46.1	74.0	-27.9	Peak	Horizontal
	8242.0	35.0	11.2	46.2	74.0	-27.8	Peak	Horizontal
*	8820.0	34.6	13.2	47.8	68.2	-20.4	Peak	Horizontal
*	10307.5	34.2	15.6	49.8	68.2	-18.4	Peak	Horizontal
	7647.0	37.2	10.4	47.6	74.0	-26.4	Peak	Vertical
	8446.0	35.8	11.6	47.4	74.0	-26.6	Peak	Vertical
*	9899.5	34.3	15.1	49.4	68.2	-18.8	Peak	Vertical
*	14515.0	37.2	17.9	55.1	68.2	-13.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	149
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7400.5	35.2	10.7	45.9	74.0	-28.1	Peak	Horizontal
	8352.5	34.5	11.2	45.7	74.0	-28.3	Peak	Horizontal
*	8905.0	33.8	13.1	46.9	68.2	-21.3	Peak	Horizontal
*	10018.5	35.1	15.1	50.2	68.2	-18.0	Peak	Horizontal
	7468.5	35.5	10.9	46.4	74.0	-27.6	Peak	Vertical
	8276.0	35.0	11.2	46.2	74.0	-27.8	Peak	Vertical
*	8786.0	33.8	12.8	46.6	68.2	-21.6	Peak	Vertical
*	9857.0	33.2	15.4	48.6	68.2	-19.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	157
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7477.0	36.8	10.8	47.6	74.0	-26.4	Peak	Horizontal
	8276.0	35.1	11.2	46.3	74.0	-27.7	Peak	Horizontal
*	8633.0	34.4	12.2	46.6	68.2	-21.6	Peak	Horizontal
*	9814.5	34.0	15.3	49.3	68.2	-18.9	Peak	Horizontal
	7341.0	34.8	10.9	45.7	74.0	-28.3	Peak	Vertical
	8395.0	34.9	11.3	46.2	74.0	-27.8	Peak	Vertical
*	8709.5	34.1	12.9	47.0	68.2	-21.2	Peak	Vertical
*	9721.0	33.9	15.1	49.0	68.2	-19.2	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT20 - Ant 0 + 1	Test Channel	165
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7596.0	37.0	10.8	47.8	74.0	-26.2	Peak	Horizontal
	8216.5	35.0	11.4	46.4	74.0	-27.6	Peak	Horizontal
*	8692.5	35.1	13.1	48.2	68.2	-20.0	Peak	Horizontal
*	9755.0	35.4	15.3	50.7	68.2	-17.5	Peak	Horizontal
	7511.0	37.1	10.9	48.0	74.0	-26.0	Peak	Vertical
	8259.0	34.8	11.5	46.3	74.0	-27.7	Peak	Vertical
*	8862.5	35.7	12.9	48.6	68.2	-19.6	Peak	Vertical
*	9916.5	35.0	15.2	50.2	68.2	-18.0	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT40 - Ant 0 + 1	Test Channel	38
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7511.0	37.1	10.9	48.0	74.0	-26.0	Peak	Horizontal
	8191.0	36.3	11.4	47.7	74.0	-26.3	Peak	Horizontal
*	8624.5	35.5	12.3	47.8	68.2	-20.4	Peak	Horizontal
*	9899.5	33.7	15.1	48.8	68.2	-19.4	Peak	Horizontal
	7630.0	35.5	10.5	46.0	74.0	-28.0	Peak	Vertical
	8310.0	35.2	11.2	46.4	74.0	-27.6	Peak	Vertical
*	8888.0	34.7	12.7	47.4	68.2	-20.8	Peak	Vertical
*	9857.0	34.1	15.4	49.5	68.2	-18.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT40 - Ant 0 + 1	Test Channel	46
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7536.5	35.5	10.8	46.3	74.0	-27.7	Peak	Horizontal
	8335.5	35.9	11.0	46.9	74.0	-27.1	Peak	Horizontal
*	8888.0	35.2	12.7	47.9	68.2	-20.3	Peak	Horizontal
*	9857.0	34.1	15.4	49.5	68.2	-18.7	Peak	Horizontal
	7638.5	37.8	10.5	48.3	74.0	-25.7	Peak	Vertical
	8335.5	35.9	11.0	46.9	74.0	-27.1	Peak	Vertical
*	8769.0	35.6	12.9	48.5	68.2	-19.7	Peak	Vertical
*	9738.0	34.9	15.2	50.1	68.2	-18.1	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT40 - Ant 0 + 1	Test Channel	151
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7426.0	35.5	10.8	46.3	74.0	-27.7	Peak	Horizontal
	8352.5	35.1	11.2	46.3	74.0	-27.7	Peak	Horizontal
*	8871.0	34.4	12.9	47.3	68.2	-20.9	Peak	Horizontal
*	9814.5	33.4	15.3	48.7	68.2	-19.5	Peak	Horizontal
	7545.0	37.1	10.8	47.9	74.0	-26.1	Peak	Vertical
	8471.5	36.3	11.4	47.7	74.0	-26.3	Peak	Vertical
*	8794.5	35.6	12.9	48.5	68.2	-19.7	Peak	Vertical
*	9814.5	33.4	15.3	48.7	68.2	-19.5	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT40 - Ant 0 + 1	Test Channel	159
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7434.5	35.6	10.9	46.5	74.0	-27.5	Peak	Horizontal
	8369.5	36.5	11.1	47.6	74.0	-26.4	Peak	Horizontal
*	8854.0	34.9	12.8	47.7	68.2	-20.5	Peak	Horizontal
*	9942.0	33.5	15.0	48.5	68.2	-19.7	Peak	Horizontal
	7604.5	35.3	10.8	46.1	74.0	-27.9	Peak	Vertical
	8276.0	35.5	11.2	46.7	74.0	-27.3	Peak	Vertical
*	8862.5	35.4	12.9	48.3	68.2	-19.9	Peak	Vertical
*	9942.0	33.5	15.0	48.5	68.2	-19.7	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT80 - Ant 0 + 1	Test Channel	42
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBμV)	Factor (dB)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7613.0	35.8	10.7	46.5	74.0	-27.5	Peak	Horizontal
	8233.5	35.1	11.3	46.4	74.0	-27.6	Peak	Horizontal
*	8888.0	34.7	12.7	47.4	68.2	-20.8	Peak	Horizontal
*	10154.5	33.4	15.3	48.7	68.2	-19.5	Peak	Horizontal
	7536.5	36.2	10.8	47.0	74.0	-27.0	Peak	Vertical
	8284.5	35.9	11.2	47.1	74.0	-26.9	Peak	Vertical
*	8769.0	34.5	12.9	47.4	68.2	-20.8	Peak	Vertical
*	9865.5	36.1	15.5	51.6	68.2	-16.6	Peak	Vertical

Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Product	WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Test Site	WZ-AC1
Test Engineer	Antony Yang	Test Date	2020/09/11
Test Mode	802.11ac-VHT80 - Ant 0 + 1	Test Channel	155
Antenna	Panel Antenna		
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	7400.5	35.7	10.7	46.4	74.0	-27.6	Peak	Horizontal
	8310.0	35.2	11.2	46.4	74.0	-27.6	Peak	Horizontal
*	8769.0	34.1	12.9	47.0	68.2	-21.2	Peak	Horizontal
*	9823.0	32.7	15.3	48.0	68.2	-20.2	Peak	Horizontal
	7375.0	34.2	10.8	45.0	74.0	-29.0	Peak	Vertical
	8148.5	33.7	11.3	45.0	74.0	-29.0	Peak	Vertical
*	8743.5	34.5	12.8	47.3	68.2	-20.9	Peak	Vertical
*	10231.0	34.2	15.7	49.9	68.2	-18.3	Peak	Vertical

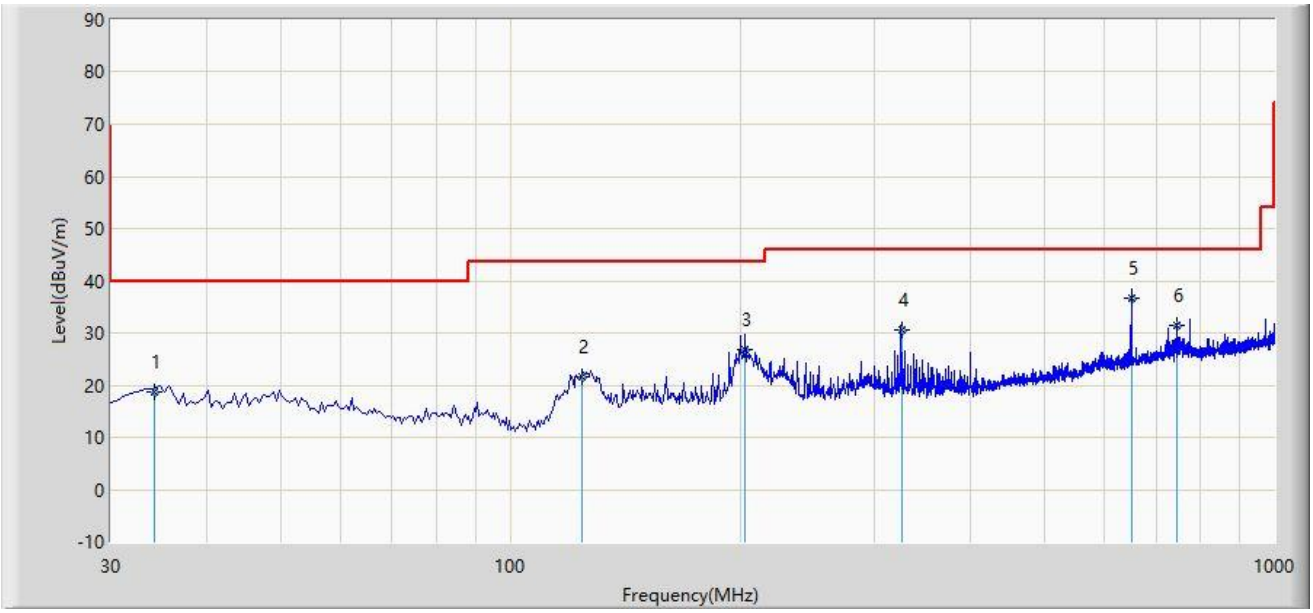
Note 1: “*” is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

The Result of Radiated Emission below 1GHz

Site: WZ-AC1	Time: 2020/09/19 - 13:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Power: By PCB Board
Test Mode: Transmit by 802.11a at channel 5180MHz (Dipole Antenna)	



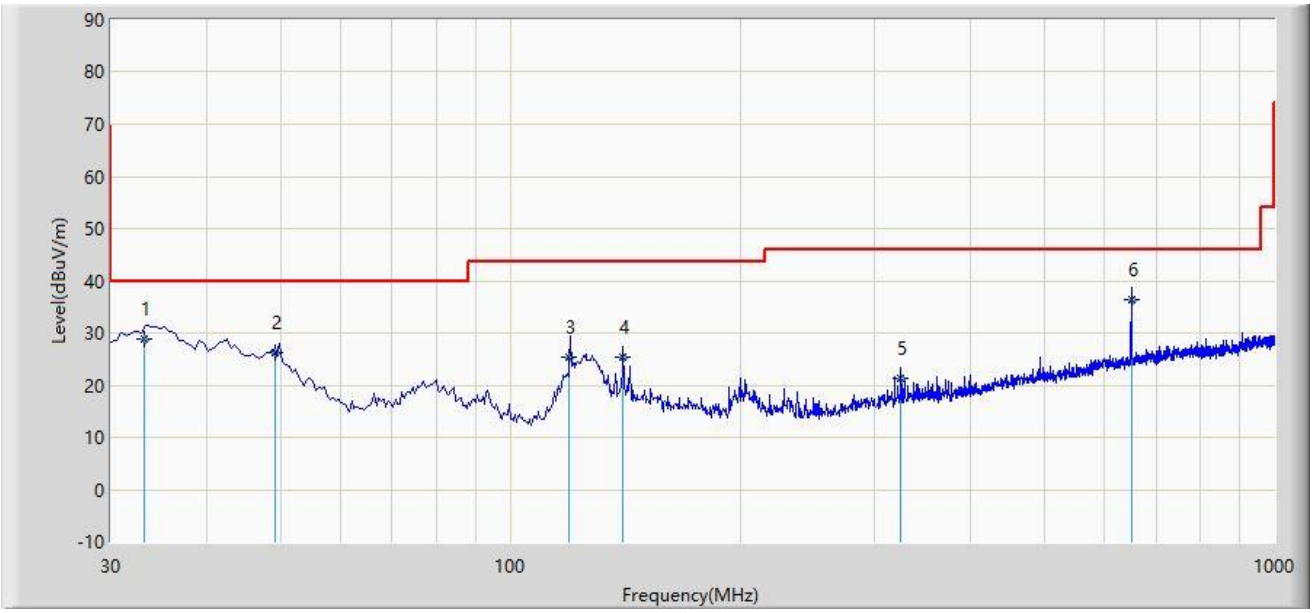
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			34.160	18.786	2.210	-21.214	40.000	16.576	QP
2			124.150	21.685	6.240	-21.815	43.500	15.445	QP
3			203.210	26.876	13.124	-16.624	43.500	13.752	QP
4			325.160	30.703	12.550	-15.297	46.000	18.153	QP
5		*	649.520	36.609	12.210	-9.391	46.000	24.399	QP
6			744.960	31.321	5.240	-14.679	46.000	26.081	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of spurious emissions (frequency range from 9kHz to 30MHz &18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: WZ-AC1	Time: 2020/09/19 - 13:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Power: By PCB Board
Test Mode: Transmit by 802.11a at channel 5180MHz (Dipole Antenna)	



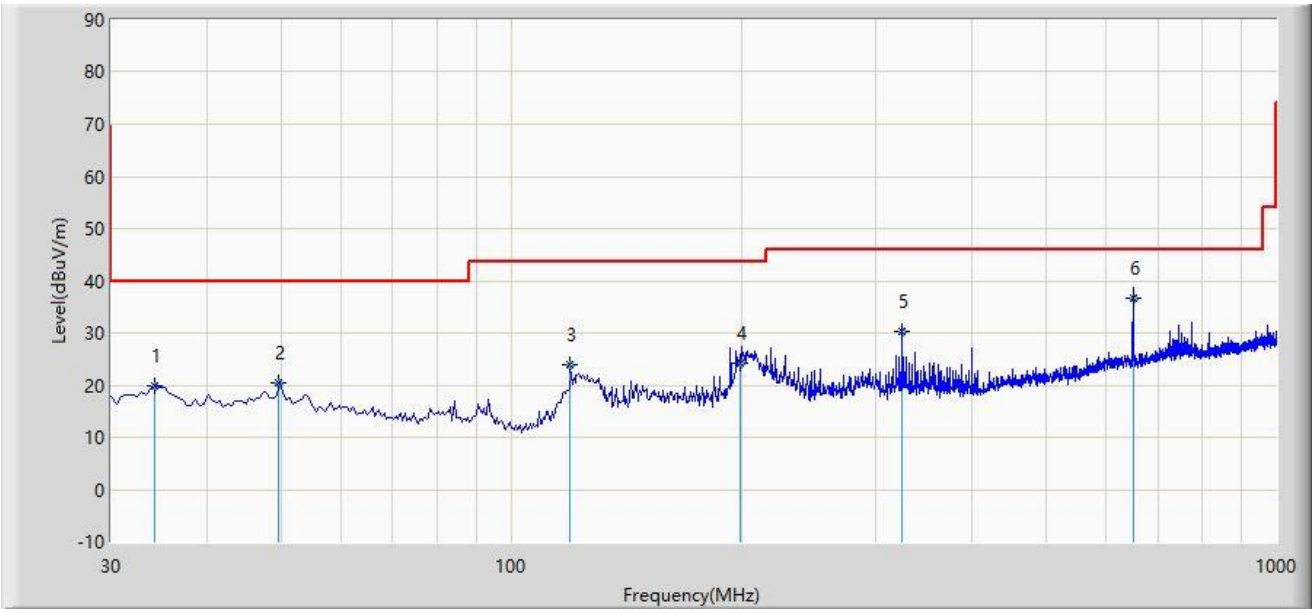
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			33.210	28.822	12.320	-11.178	40.000	16.502	QP
2			49.150	26.328	8.650	-13.672	40.000	17.678	QP
3			119.210	25.399	10.240	-18.101	43.500	15.159	QP
4			140.120	25.409	8.590	-18.091	43.500	16.819	QP
5			324.125	21.377	3.260	-24.623	46.000	18.117	QP
6		*	649.550	36.520	12.121	-9.480	46.000	24.399	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of spurious emissions (frequency range from 9kHz to 30MHz &18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: WZ-AC1	Time: 2020/09/19 - 13:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Horizontal
EUT: WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Power: By PCB Board
Test Mode: Transmit by 802.11a at channel 5180MHz (Panel Antenna)	



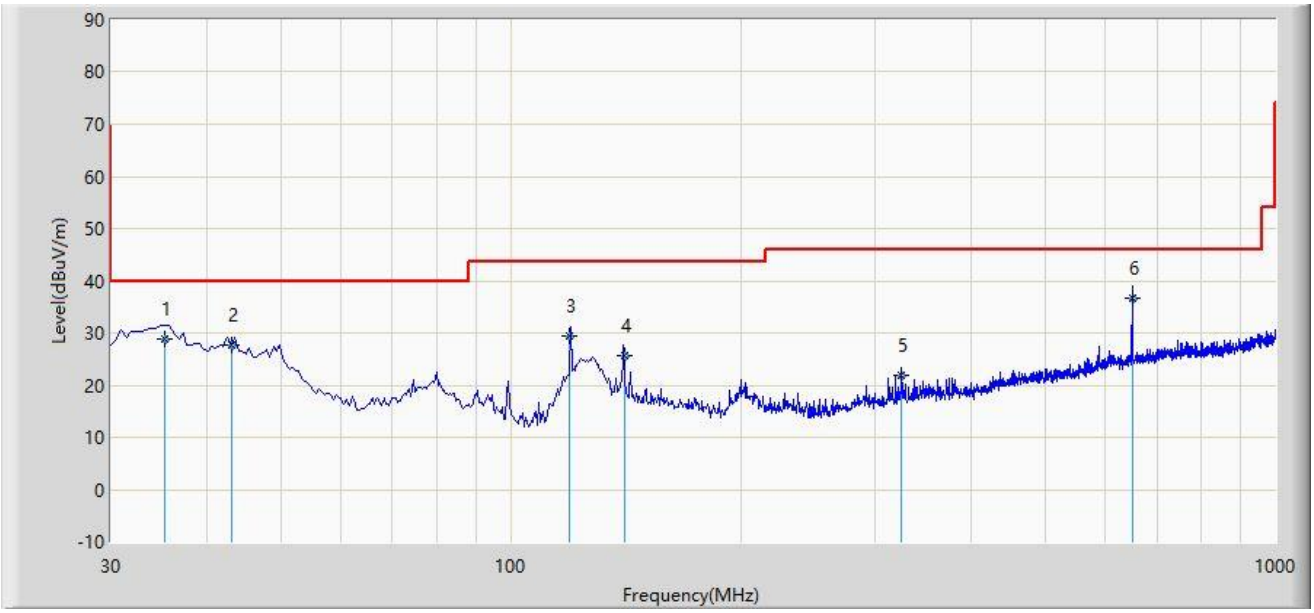
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			34.260	19.798	3.210	-20.202	40.000	16.588	QP
2			49.630	20.342	2.650	-19.658	40.000	17.692	QP
3			119.250	23.813	8.650	-19.687	43.500	15.163	QP
4			199.650	24.340	10.240	-19.160	43.500	14.100	QP
5			324.150	30.367	12.250	-15.633	46.000	18.117	QP
6		*	649.510	36.610	12.210	-9.390	46.000	24.400	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of spurious emissions (frequency range from 9kHz to 30MHz &18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: WZ-AC1	Time: 2020/09/19 - 13:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: WZ-AC1_VULB 9168 _30-1000MHz	Polarity: Vertical
EUT: WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Power: By PCB Board
Test Mode: Transmit by 802.11a at channel 5180MHz (Panel Antenna)	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			35.260	28.710	12.010	-11.290	40.000	16.700	QP
2			43.160	27.638	10.230	-12.362	40.000	17.408	QP
3			119.560	29.529	14.350	-13.971	43.500	15.179	QP
4			140.690	25.523	8.650	-17.977	43.500	16.873	QP
5			324.210	21.810	3.690	-24.190	46.000	18.120	QP
6		*	649.630	36.648	12.250	-9.352	46.000	24.398	QP

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The amplitude of spurious emissions (frequency range from 9kHz to 30MHz &18GHz to 40GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

6.8. Radiated Restricted Band Edge Measurement

6.8.1.Test Limit

For 15.205 Requirement:

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47CFR must not exceed the limits shown in Table per Section 15.209.

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42-16.423	399.9 - 410	4.5-5.15
[1] 0.495 - 0.505	16.69475-16.69525	608 - 614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960 - 1240	7.25-7.75
4.125 -4.128	25.5 -25.67	1300 - 1427	8.025 - 8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660 - 1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123 - 138	2200 - 2300	14.47-14.5
8.291-8.294	149.9-150.05	2310–2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5 - 2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690 - 2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260 - 3267	23.6-24.0
12.29-12.293	167.72-173.2	3332 - 3339	31.2-31.8
12.51975-12.52025	240 - 285	3345.8 - 3358	36.43-36.5
12.57675-12.57725	322-335.4	3600 - 4400	([2])
13.36-13.41	--	--	--

For 15.407(b) Requirement:

For transmitters operating in the 5.15-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Refer to KDB 789033 D02v01r04 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

FCC Part 15.209 Limit		
Frequency (MHz)	Field Strength (μV/m)	Measured Distance (m)
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

6.8.2.Test Procedure Used

KDB 789033 D02v02r01- Section G

6.8.3.Test Setting

Peak Measurements above 1GHz

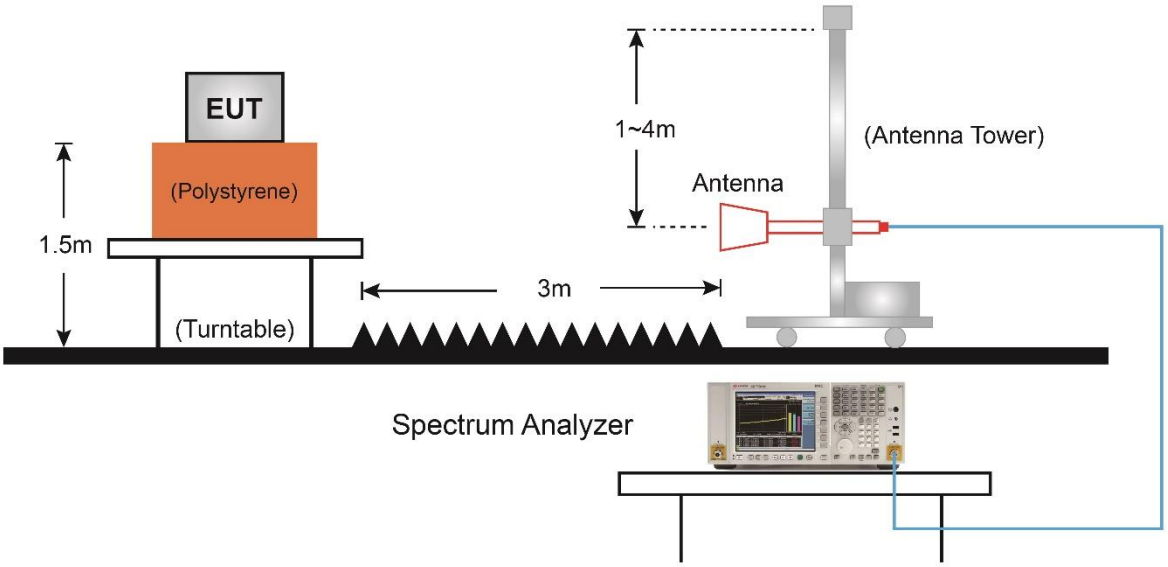
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Measurements above 1GHz (Method VB)

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW,Ifthe EUT is configured to transmit with duty cycle ≥ 98%, set VBW = 10 Hz.

   If the EUT duty cycle is < 98%, set VBW ≥ 1/T. T is the minimum transmission duration.
4. Detector = Peak
5. Sweep time = auto
6. Trace mode = max hold
7. Trace was allowed to stabilize

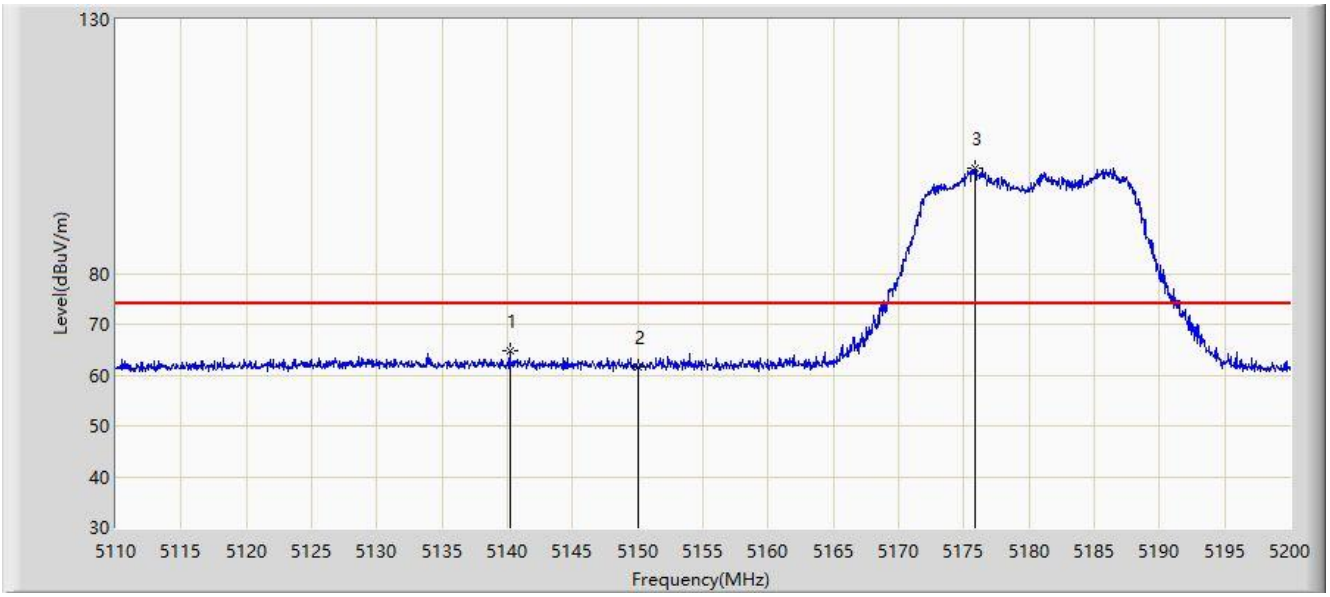
6.8.4.Test Setup



6.8.5.Test Result

Dipole Antenna Configuration

Site: WZ-AC1	Time: 2020/07/31 - 00:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Power: By PCB Board
Test Mode: Transmit by 802.11a at Channel 5180MHz	

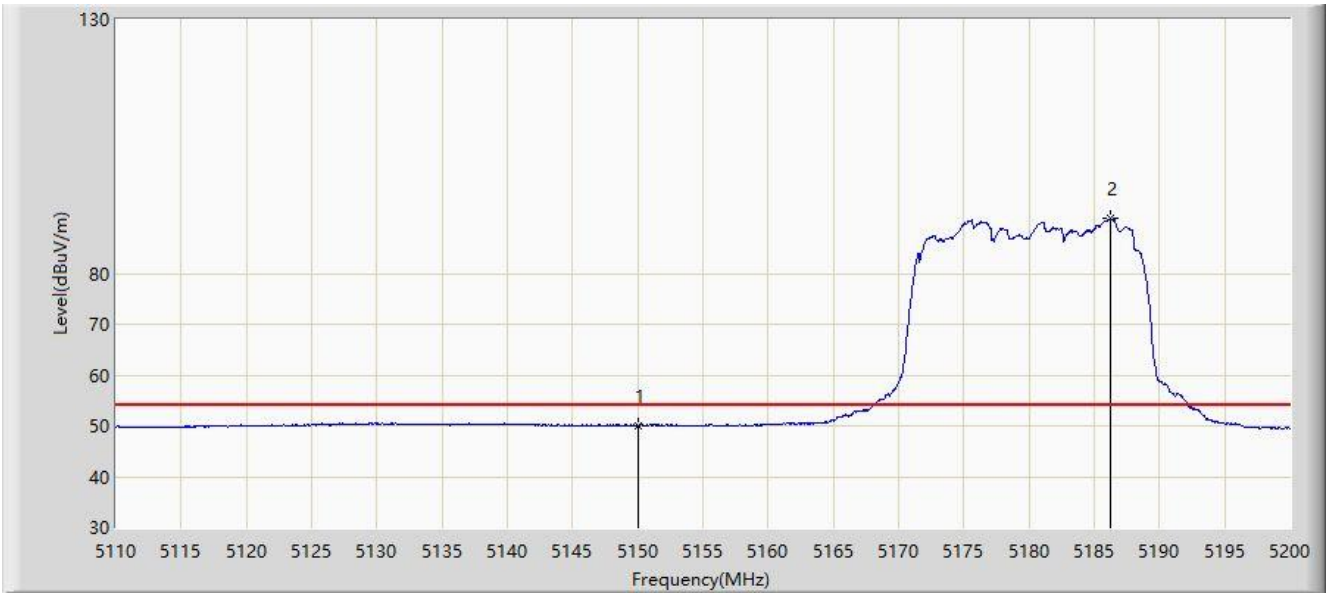


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5140.195	64.683	58.092	-9.317	74.000	6.591	PK
2			5150.000	61.551	55.099	-12.449	74.000	6.452	PK
3		*	5175.880	100.707	94.220	N/A	N/A	6.487	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC1	Time: 2020/07/31 - 00:15
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Power: By PCB Board
Test Mode: Transmit by 802.11a at Channel 5180MHz	

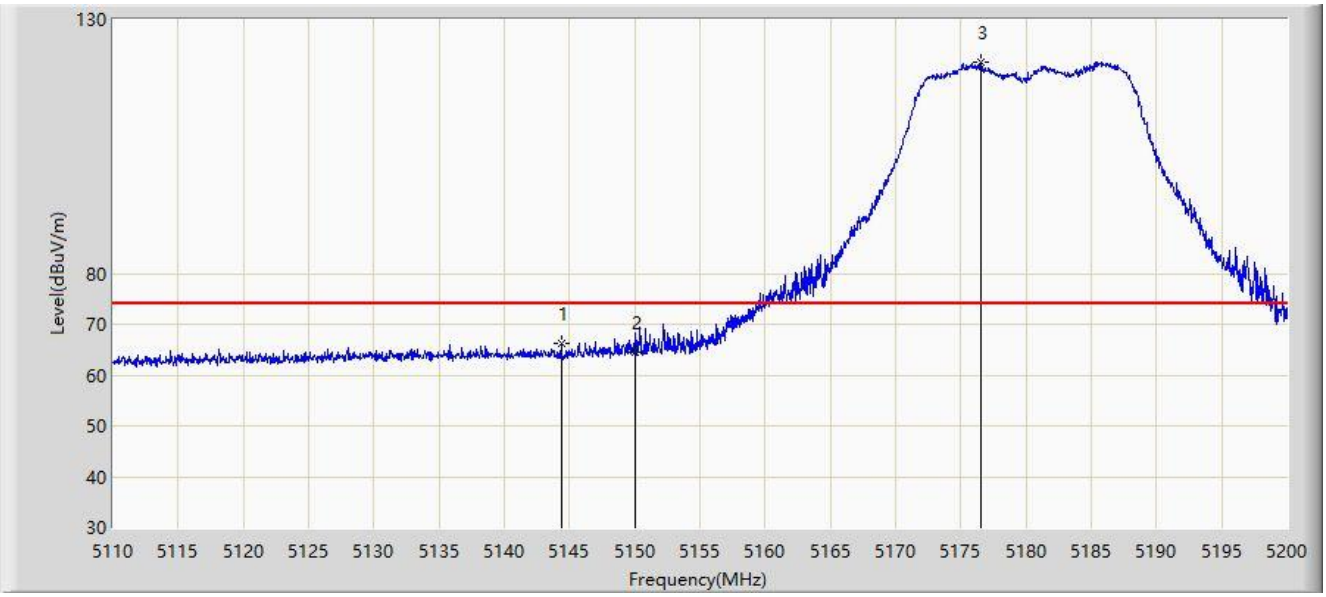


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	50.117	43.665	-3.883	54.000	6.452	AV
2		*	5186.185	90.749	84.250	N/A	N/A	6.499	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC1	Time: 2020/07/31 - 00:18
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Power: By PCB Board
Test Mode: Transmit by 802.11a at Channel 5180MHz	

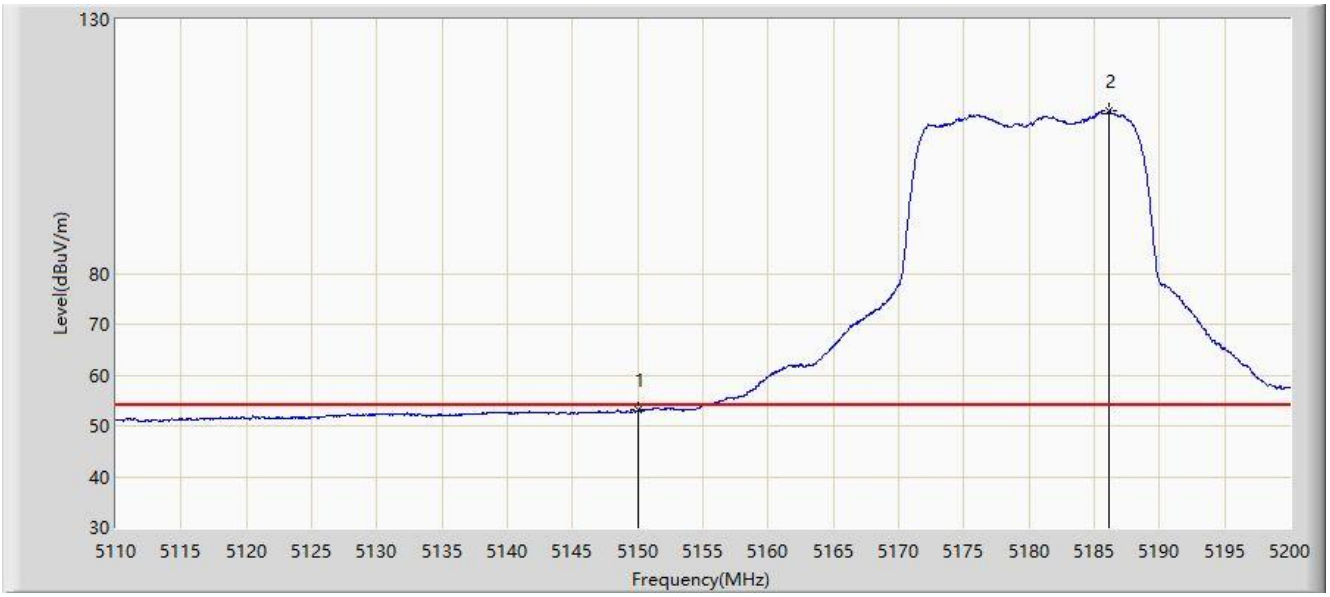


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5144.380	66.124	59.607	-7.876	74.000	6.517	PK
2			5150.000	64.551	58.099	-9.449	74.000	6.452	PK
3		*	5176.510	121.720	115.229	N/A	N/A	6.491	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC1	Time: 2020/07/31 - 00:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Dillon Diao
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Power: By PCB Board
Test Mode: Transmit by 802.11a at Channel 5180MHz	

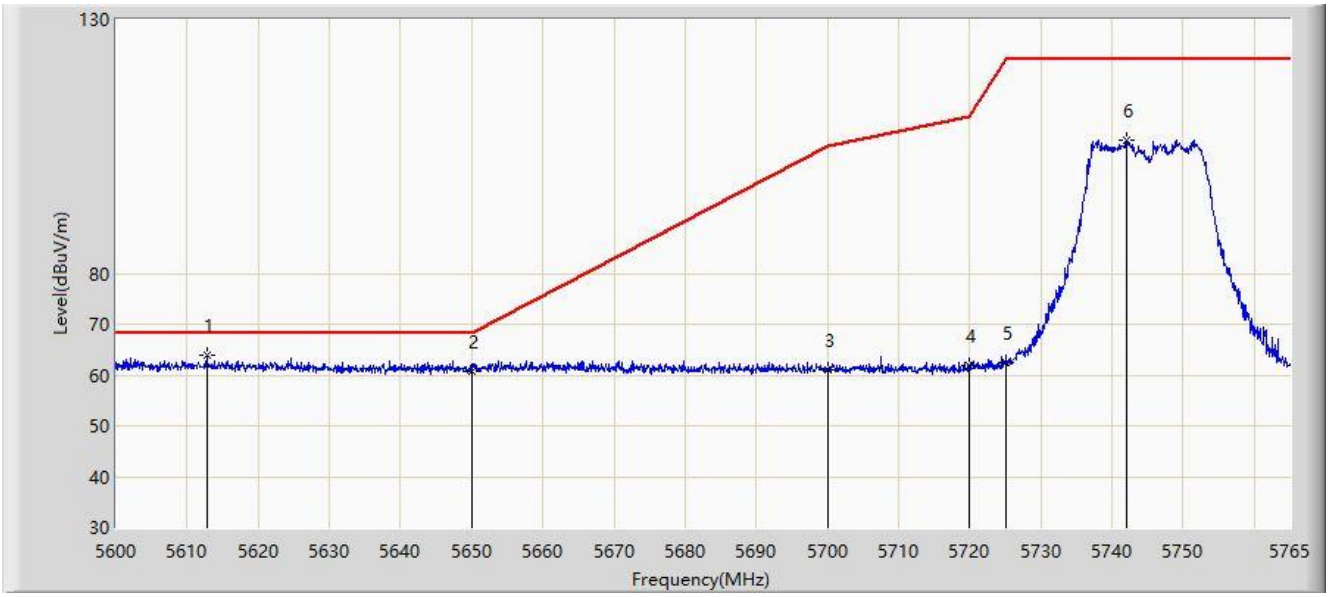


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	53.048	46.596	-0.952	54.000	6.452	AV
2	X	*	5186.140	111.905	105.405	N/A	N/A	6.500	AV

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC1	Time: 2020/07/31 - 03:39
Limit: FCC_Part15.407_RE(3m)	Engineer: Dillon Diao
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Power: By PCB Board
Test Mode: Transmit by 802.11a at Channel 5745MHz	

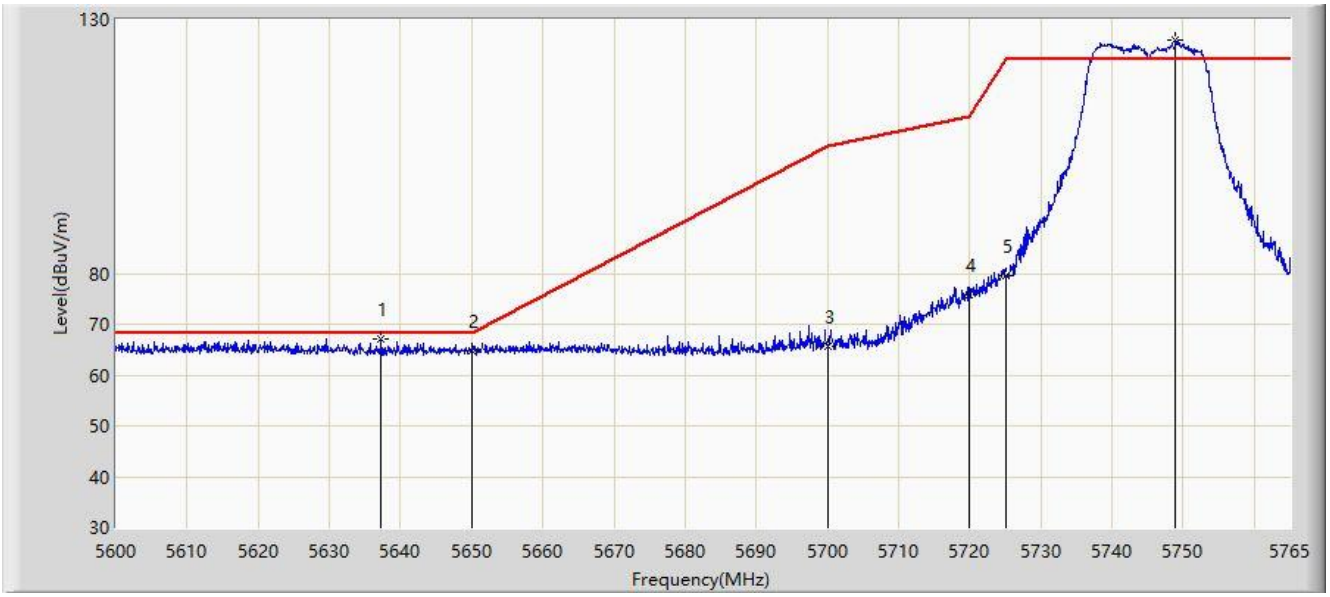


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5612.788	64.009	57.482	-4.191	68.200	6.526	PK
2			5650.000	60.786	54.527	-7.414	68.200	6.258	PK
3			5700.000	61.063	54.638	-44.137	105.200	6.426	PK
4			5720.000	61.912	55.527	-48.888	110.800	6.386	PK
5			5725.000	62.563	56.139	-59.637	122.200	6.424	PK
6			5742.147	106.368	99.628	N/A	N/A	6.741	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: WZ-AC1	Time: 2020/07/31 - 03:38
Limit: FCC_Part15.407_RE(3m)	Engineer: Dillon Diao
Probe: WZ-AC1_BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIRELESS-AC 2X2 27DBM NETWORK MINI PCIE ADAPTER	Power: By PCB Board
Test Mode: Transmit by 802.11a at Channel 5745MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5637.208	67.184	61.124	-1.016	68.200	6.060	PK
2			5650.000	64.899	58.640	-3.301	68.200	6.258	PK
3			5700.000	65.707	59.282	-39.493	105.200	6.426	PK
4			5720.000	75.777	69.392	-35.023	110.800	6.386	PK
5			5725.000	79.650	73.226	-42.550	122.200	6.424	PK
6		*	5748.913	126.048	119.258	N/A	N/A	6.791	PK

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).