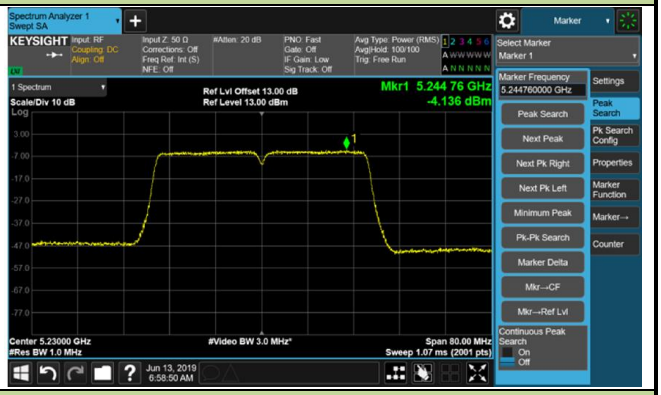
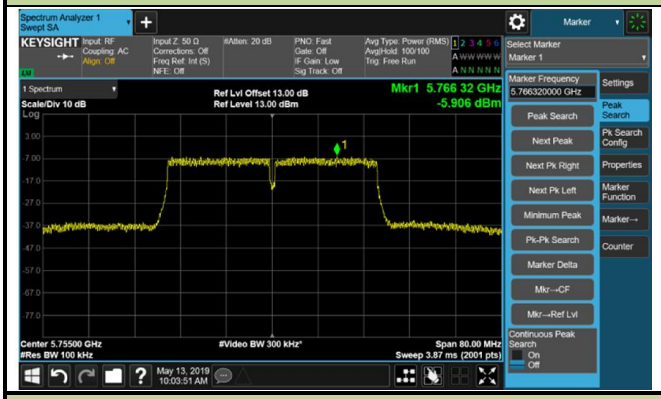
802.11ac-VHT20 Power Spectral Density - Ant 2 / Ant 1+2	
Channel 36 (5180MHz)	Channel 44 (5220MHz)
	
Channel 48 (5240MHz)	Channel 149 (5745MHz)
	
Channel 157 (5785MHz)	Channel 165 (5825MHz)
	

802.11ac-VHT40 Power Spectral Density - Ant 2 / Ant 1+2	
Channel 38 (5190MHz)	Channel 46 (5230MHz)
	
Channel 151 (5755MHz)	Channel 159 (5795MHz)
	

802.11ac-VHT80 Power Spectral Density - Ant 2 / Ant 1+2	
Channel 42 (5210MHz)	Channel 155 (5775MHz)
	

7.7. Frequency Stability Measurement

7.7.1.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.

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

7.7.2.Test Procedure Used

Frequency Stability Under Temperature Variations:

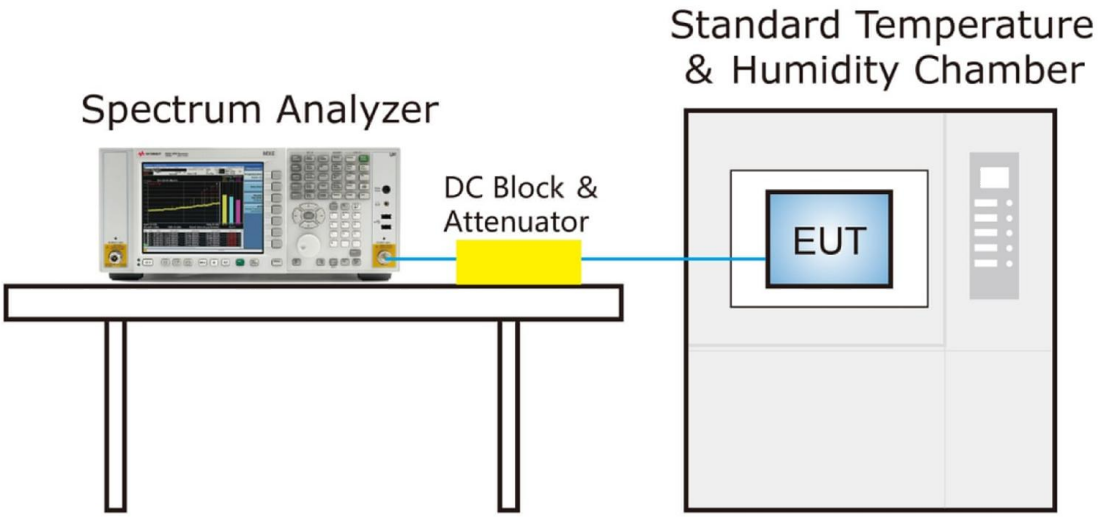
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C 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°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. 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.

7.7.3.Test Setup



7.7.4.Test Result

Product	Streaming Media Player	Temperature	-30 ~ 50°C
Test Engineer	Kevin Ker	Relative Humidity	46 ~ 55%RH
Test Site	SR2	Test Time	2019/05/12
Test Mode	5180MHz (Carrier Mode)		

Voltage (%)	Power (VAC)	Temp (°C)	Frequency Tolerance (ppm)
100%	120	- 30	-8.41
		- 20	-8.43
		- 10	-7.39
		0	-5.34
		+ 10	-5.01
		+ 20 (Ref)	-6.18
		+ 30	-6.39
		+ 40	-6.47
		+ 50	-6.48
115%	138	+ 20	-6.09
85%	102	+ 20	-5.44

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

7.8. Radiated Spurious Emission Measurement

7.8.1.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 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
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

7.8.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.4 (Standard test method below 30MHz)

ANSI C63.10 Section 6.5 (Standard test method above 30MHz to 1GHz)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.8.3.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 = as specified in Table 1

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

3. VBW; If the 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

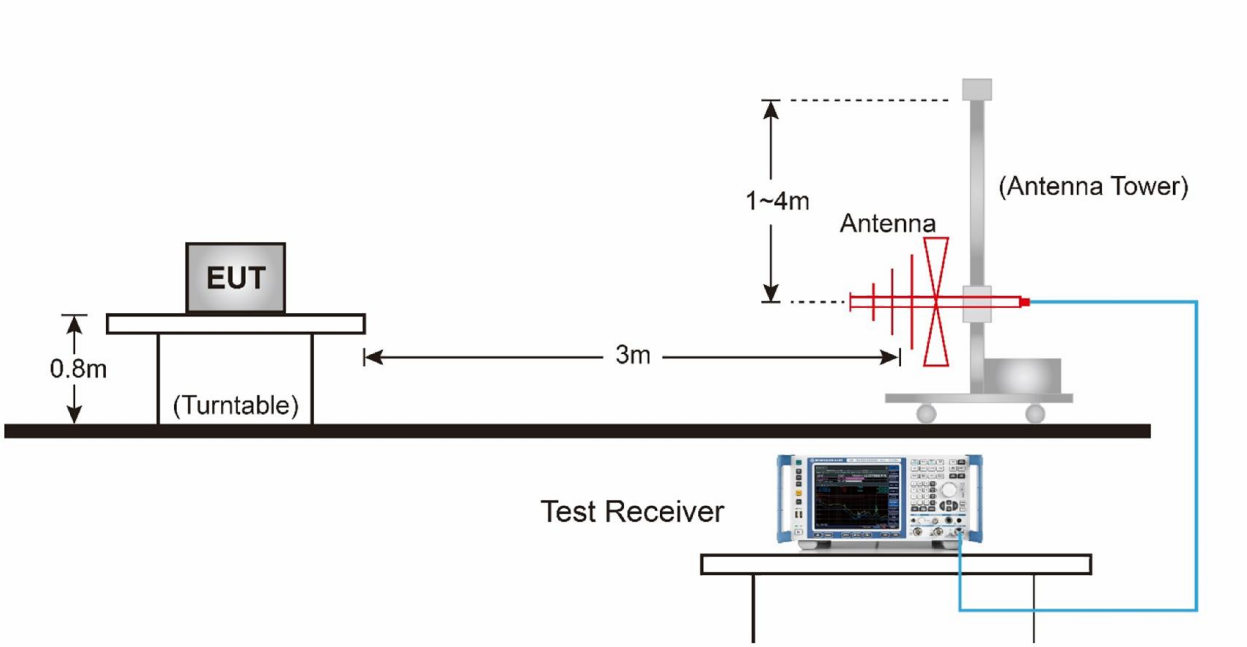
5. Sweep time = auto

6. Trace mode = max hold

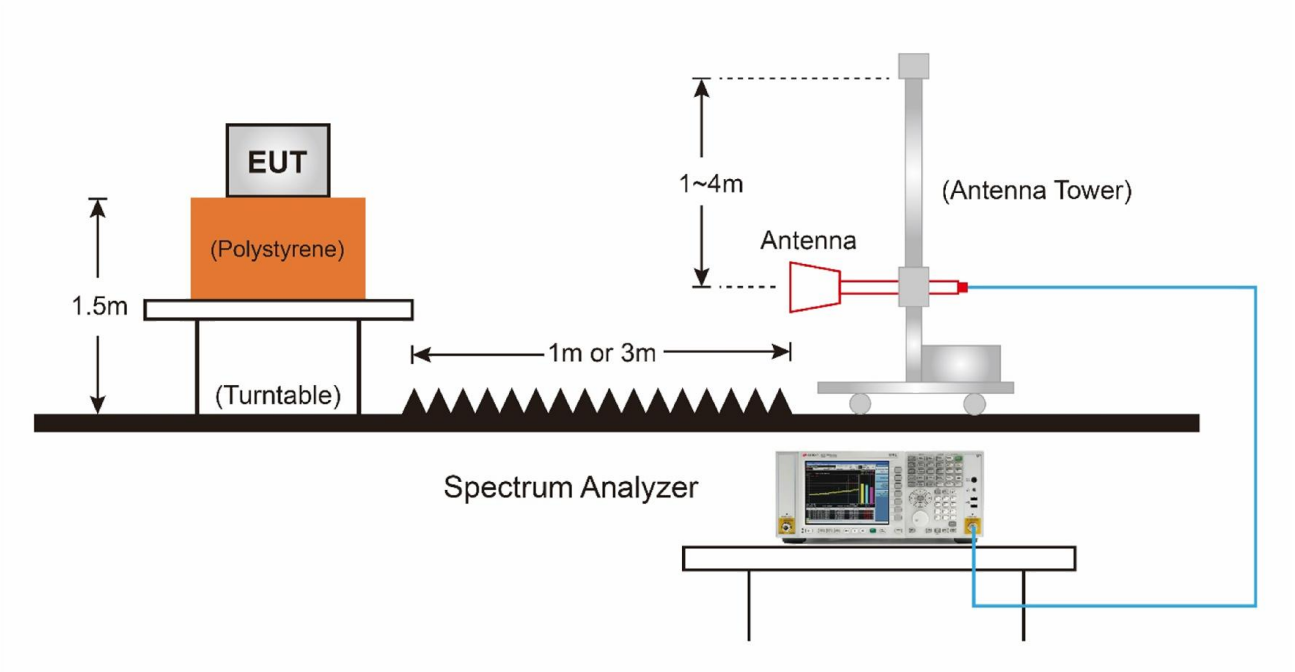
7. Trace was allowed to stabilize

7.8.4.Test Setup

Below 1GHz Test Setup:



Above 1GHz Test Setup:



7.8.5.Test Result

Product	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11a - Ant 1+2	Test Channel	36
Note	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
	7681.0	35.1	12.8	47.9	74.0	-26.1	Peak	Horizontal
	8250.5	34.6	13.0	47.7	74.0	-26.3	Peak	Horizontal
*	8786.0	34.0	13.9	47.8	68.2	-20.4	Peak	Horizontal
*	10018.5	33.9	15.8	49.8	68.2	-18.4	Peak	Horizontal
	7502.5	34.8	12.7	47.5	74.0	-26.5	Peak	Vertical
	8242.0	34.6	13.0	47.6	74.0	-26.4	Peak	Vertical
*	8786.0	34.8	13.9	48.6	68.2	-19.6	Peak	Vertical
*	9865.5	35.0	15.5	50.5	68.2	-17.7	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11a - Ant 1+2	Test Channel	44
Note	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	35.0	12.7	47.7	74.0	-26.3	Peak	Horizontal
	8318.5	34.6	13.1	47.7	74.0	-26.3	Peak	Horizontal
*	8888.0	35.1	14.1	49.2	68.2	-19.0	Peak	Horizontal
*	9959.0	35.0	15.7	50.7	68.2	-17.5	Peak	Horizontal
	7409.0	35.0	12.5	47.5	74.0	-26.5	Peak	Vertical
	8174.0	34.9	13.0	47.9	74.0	-26.1	Peak	Vertical
*	8811.5	34.0	13.9	48.0	68.2	-20.2	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11a - Ant 1+2	Test Channel	48
Note	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	35.4	12.5	47.9	74.0	-26.1	Peak	Horizontal
	8480.0	34.5	13.1	47.7	74.0	-26.3	Peak	Horizontal
*	8871.0	33.9	14.1	48.0	68.2	-20.2	Peak	Horizontal
*	9627.5	33.6	14.9	48.6	68.2	-19.6	Peak	Horizontal
	7502.5	36.1	12.7	48.8	74.0	-25.2	Peak	Vertical
	8242.0	35.2	13.0	48.2	74.0	-25.8	Peak	Vertical
*	8854.0	34.1	14.0	48.1	68.2	-20.1	Peak	Vertical
*	9678.5	33.7	15.0	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11a - Ant 1+2	Test Channel	149
Note	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	35.4	12.4	47.8	74.0	-26.2	Peak	Horizontal
	8242.0	33.6	13.0	46.6	74.0	-27.4	Peak	Horizontal
*	8854.0	33.8	14.0	47.8	68.2	-20.4	Peak	Horizontal
*	10044.0	33.7	16.0	49.6	68.2	-18.6	Peak	Horizontal
	7460.0	34.6	12.6	47.2	74.0	-26.8	Peak	Vertical
	8242.0	34.5	13.0	47.5	74.0	-26.5	Peak	Vertical
*	8658.5	34.7	13.5	48.3	68.2	-19.9	Peak	Vertical
*	9746.5	34.9	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11a - Ant 1+2	Test Channel	157
Note	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	35.3	12.7	47.9	74.0	-26.1	Peak	Horizontal
	8335.5	35.6	13.1	48.7	74.0	-25.3	Peak	Horizontal
*	8862.5	34.4	14.0	48.4	68.2	-19.8	Peak	Horizontal
*	10044.0	33.8	16.0	49.7	68.2	-18.5	Peak	Horizontal
	7417.5	34.8	12.5	47.2	74.0	-26.8	Peak	Vertical
	8157.0	35.5	13.0	48.5	74.0	-25.5	Peak	Vertical
*	8786.0	34.1	13.9	48.0	68.2	-20.2	Peak	Vertical
*	9755.0	34.7	15.2	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)

Product	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11a - Ant 1+2	Test Channel	165
Note	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
	7434.0	35.4	12.5	47.9	74.0	-26.1	Peak	Horizontal
	8361.0	34.3	13.1	47.4	74.0	-26.6	Peak	Horizontal
*	8777.5	34.0	13.8	47.8	68.2	-20.4	Peak	Horizontal
*	9619.0	35.2	14.9	50.1	68.2	-18.1	Peak	Horizontal
	7613.0	35.0	12.8	47.8	74.0	-26.2	Peak	Vertical
	8250.5	34.0	13.0	47.0	74.0	-27.0	Peak	Vertical
*	8837.0	33.9	14.0	47.9	68.2	-20.3	Peak	Vertical
*	9780.5	34.0	15.3	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11n-HT20 - Ant 1 + 2	Test Channel	36
Note	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	36.0	12.6	48.6	74.0	-25.4	Peak	Horizontal
	8276.0	34.1	13.1	47.2	74.0	-26.8	Peak	Horizontal
*	8828.5	34.9	14.0	48.9	68.2	-19.3	Peak	Horizontal
*	9848.5	35.1	15.4	50.5	68.2	-17.7	Peak	Horizontal
	7502.5	34.4	12.7	47.1	74.0	-26.9	Peak	Vertical
	8157.0	35.6	13.0	48.6	74.0	-25.4	Peak	Vertical
*	8922.0	34.6	14.2	48.8	68.2	-19.4	Peak	Vertical
*	10010.0	34.8	15.8	50.6	68.2	-17.6	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11n-HT20 - Ant 1 + 2	Test Channel	44
Note	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	35.1	12.7	47.8	74.0	-26.2	Peak	Horizontal
	8199.5	34.9	13.0	47.9	74.0	-26.1	Peak	Horizontal
*	8803.0	33.9	13.9	47.8	68.2	-20.4	Peak	Horizontal
*	9636.0	34.7	14.9	49.6	68.2	-18.6	Peak	Horizontal
	7655.5	34.9	12.8	47.6	74.0	-26.4	Peak	Vertical
	8446.0	34.5	13.1	47.6	74.0	-26.4	Peak	Vertical
*	8769.0	32.9	13.8	46.7	68.2	-21.5	Peak	Vertical
*	9721.0	33.1	15.1	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11n-HT20 - Ant 1 + 2	Test Channel	48
Note	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
	7698.0	34.5	12.8	47.3	74.0	-26.7	Peak	Horizontal
	8140.0	35.3	13.0	48.2	74.0	-25.8	Peak	Horizontal
*	8845.5	34.4	14.0	48.4	68.2	-19.8	Peak	Horizontal
*	9891.0	34.9	15.5	50.4	68.2	-17.8	Peak	Horizontal
	7477.0	33.9	12.7	46.5	74.0	-27.5	Peak	Vertical
	8429.0	34.2	13.1	47.3	74.0	-26.7	Peak	Vertical
*	8964.5	34.0	14.3	48.3	68.2	-19.9	Peak	Vertical
*	9806.0	35.7	15.3	51.0	68.2	-17.2	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11n-HT20 - Ant 1 + 2	Test Channel	149
Note	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
	7664.0	34.8	12.8	47.6	74.0	-26.4	Peak	Horizontal
	8395.0	33.6	13.1	46.7	74.0	-27.3	Peak	Horizontal
*	8837.0	34.5	14.0	48.5	68.2	-19.7	Peak	Horizontal
*	9891.0	34.6	15.5	50.2	68.2	-18.0	Peak	Horizontal
	7375.0	36.0	12.4	48.4	74.0	-25.6	Peak	Vertical
	8208.0	35.0	13.0	48.0	74.0	-26.0	Peak	Vertical
*	8667.0	34.4	13.6	48.0	68.2	-20.2	Peak	Vertical
*	9644.5	34.9	14.9	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)

Product	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11n-HT20 - Ant 1 + 2	Test Channel	157
Note	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	34.3	12.5	46.8	74.0	-27.2	Peak	Horizontal
	8242.0	34.3	13.0	47.4	74.0	-26.6	Peak	Horizontal
*	8641.5	35.1	13.5	48.6	68.2	-19.6	Peak	Horizontal
*	10010.0	34.9	15.8	50.7	68.2	-17.5	Peak	Horizontal
	7655.5	34.6	12.8	47.4	74.0	-26.6	Peak	Vertical
	8119.5	35.2	13.0	48.2	74.0	-25.8	Peak	Vertical
*	8811.5	34.4	13.9	48.3	68.2	-19.9	Peak	Vertical
*	9644.5	36.1	14.9	51.1	68.2	-17.1	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11n-HT20 - Ant 1 + 2	Test Channel	165
Note	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	35.7	12.5	48.1	74.0	-25.9	Peak	Horizontal
	8165.5	34.6	13.0	47.6	74.0	-26.4	Peak	Horizontal
*	8811.5	34.3	13.9	48.2	68.2	-20.0	Peak	Horizontal
*	9933.0	34.0	15.6	49.6	68.2	-18.6	Peak	Horizontal
	7383.5	35.2	12.4	47.6	74.0	-26.4	Peak	Vertical
	8148.5	36.0	13.0	49.0	74.0	-25.0	Peak	Vertical
*	8633.0	35.7	13.5	49.2	68.2	-19.0	Peak	Vertical
*	9729.5	35.1	15.1	50.3	68.2	-17.9	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11n-HT40 - Ant 1 + 2	Test Channel	38
Note	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	34.2	12.8	46.9	74.0	-27.1	Peak	Horizontal
	8242.0	34.2	13.0	47.2	74.0	-26.8	Peak	Horizontal
*	8811.5	34.4	13.9	48.3	68.2	-19.9	Peak	Horizontal
*	9984.5	34.5	15.7	50.2	68.2	-18.0	Peak	Horizontal
	7570.5	33.8	12.7	46.5	74.0	-27.5	Peak	Vertical
	8259.0	35.4	13.0	48.4	74.0	-25.6	Peak	Vertical
*	8616.0	33.5	13.4	47.0	68.2	-21.2	Peak	Vertical
*	9933.5	34.3	15.6	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)

Product	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11n-HT40 - Ant 1 + 2	Test Channel	46
Note	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
	7484.0	35.0	12.7	47.7	74.0	-26.3	Peak	Horizontal
	8276.0	34.4	13.1	47.5	74.0	-26.5	Peak	Horizontal
*	8794.5	34.2	13.9	48.0	68.2	-20.2	Peak	Horizontal
*	9984.5	34.5	15.7	50.2	68.2	-18.0	Peak	Horizontal
	7502.5	34.8	12.7	47.5	74.0	-26.5	Peak	Vertical
	8284.5	34.7	13.1	47.8	74.0	-26.2	Peak	Vertical
*	8854.0	33.9	14.0	48.0	68.2	-20.2	Peak	Vertical
*	9831.5	34.4	15.4	49.8	68.2	-18.4	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11n-HT40 - Ant 1 + 2	Test Channel	151
Note	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	34.6	12.7	47.4	74.0	-26.6	Peak	Horizontal
	8412.0	35.0	13.1	48.1	74.0	-25.9	Peak	Horizontal
*	8879.5	34.3	14.1	48.4	68.2	-19.8	Peak	Horizontal
*	10214.0	34.9	16.7	51.6	68.2	-16.6	Peak	Horizontal
	7434.5	34.2	12.5	46.7	74.0	-27.3	Peak	Vertical
	8165.5	33.3	13.0	46.3	74.0	-27.7	Peak	Vertical
*	8854.0	33.6	14.0	47.6	68.2	-20.6	Peak	Vertical
*	9942.0	34.4	15.6	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11n-HT40 - Ant 1 + 2	Test Channel	159
Note	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
	7564.0	33.4	12.7	46.1	74.0	-27.9	Peak	Horizontal
	8471.5	33.9	13.1	47.0	74.0	-27.0	Peak	Horizontal
*	8871.0	34.1	14.1	48.2	68.2	-20.0	Peak	Horizontal
*	9772.0	35.0	15.2	50.3	68.2	-17.9	Peak	Horizontal
	7664.0	34.6	12.8	47.4	74.0	-26.6	Peak	Vertical
	8310.0	34.9	13.1	47.9	74.0	-26.1	Peak	Vertical
*	8692.5	33.7	13.6	47.4	68.2	-20.8	Peak	Vertical
*	9899.5	33.7	15.5	49.3	68.2	-18.9	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT20 - Ant 1 + 2	Test Channel	36
Note	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	35.1	12.4	47.5	74.0	-26.5	Peak	Horizontal
	8199.5	35.4	13.0	48.4	74.0	-25.6	Peak	Horizontal
*	8803.0	34.7	13.9	48.6	68.2	-19.6	Peak	Horizontal
*	9908.0	34.2	15.6	49.7	68.2	-18.5	Peak	Horizontal
	7400.5	35.1	12.4	47.5	74.0	-26.5	Peak	Vertical
	8199.5	35.4	13.0	48.4	74.0	-25.6	Peak	Vertical
*	8769.0	34.1	13.8	47.9	68.2	-20.3	Peak	Vertical
*	10350.0	34.2	17.3	51.5	68.2	-16.7	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT20 - Ant 1 + 2	Test Channel	44
Note	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	34.8	12.7	47.6	74.0	-26.4	Peak	Horizontal
	8437.5	34.3	13.1	47.4	74.0	-26.6	Peak	Horizontal
*	8811.5	34.0	13.9	47.9	68.2	-20.3	Peak	Horizontal
*	10197.0	34.0	16.6	50.6	68.2	-17.6	Peak	Horizontal
	7681.0	35.3	12.8	48.1	74.0	-25.9	Peak	Vertical
	8242.0	34.8	13.0	47.9	74.0	-26.1	Peak	Vertical
*	8828.5	34.8	14.0	48.8	68.2	-19.4	Peak	Vertical
*	9814.5	35.2	15.3	50.6	68.2	-17.6	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT20 - Ant 1 + 2	Test Channel	48
Note	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
	7392.0	35.0	12.4	47.4	74.0	-26.6	Peak	Horizontal
	8216.5	34.7	13.0	47.7	74.0	-26.3	Peak	Horizontal
*	8828.5	34.5	14.0	48.5	68.2	-19.7	Peak	Horizontal
*	9908.0	34.0	15.6	49.6	68.2	-18.6	Peak	Horizontal
	7451.5	33.4	12.6	46.0	74.0	-28.0	Peak	Vertical
	8199.5	34.3	13.0	47.3	74.0	-26.7	Peak	Vertical
*	8743.5	34.3	13.8	48.0	68.2	-20.2	Peak	Vertical
*	9661.5	33.9	15.0	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT20 - Ant 1 + 2	Test Channel	149
Note	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	35.0	12.7	47.7	74.0	-26.3	Peak	Horizontal
	8284.5	34.4	13.1	47.4	74.0	-26.6	Peak	Horizontal
*	8828.5	35.3	14.0	49.3	68.2	-18.9	Peak	Horizontal
*	9670.0	35.0	15.0	50.0	68.2	-18.2	Peak	Horizontal
	7426.0	34.6	12.5	47.1	74.0	-26.9	Peak	Vertical
	8403.5	34.7	13.1	47.8	74.0	-26.2	Peak	Vertical
*	8896.5	33.6	14.1	47.7	68.2	-20.5	Peak	Vertical
*	9857.0	33.9	15.4	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT20 - Ant 1 + 2	Test Channel	157
Note	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	35.1	12.5	47.5	74.0	-26.5	Peak	Horizontal
	8352.5	34.6	13.1	47.7	74.0	-26.3	Peak	Horizontal
*	8862.5	33.6	14.0	47.7	68.2	-20.5	Peak	Horizontal
*	9899.5	33.1	15.5	48.7	68.2	-19.5	Peak	Horizontal
	7434.5	35.1	12.5	47.7	74.0	-26.3	Peak	Vertical
	8267.5	34.4	13.1	47.4	74.0	-26.6	Peak	Vertical
*	8658.5	32.8	13.5	46.4	68.2	-21.8	Peak	Vertical
*	9942.0	33.3	15.6	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT20 - Ant 1 + 2	Test Channel	165
Note	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
	7689.5	47.5	12.8	60.3	74.0	-13.7	Peak	Horizontal
	8182.5	34.3	13.0	47.3	74.0	-26.7	Peak	Horizontal
*	8658.5	33.7	13.5	47.2	68.2	-21.0	Peak	Horizontal
*	9678.5	34.3	15.0	49.3	68.2	-18.9	Peak	Horizontal
	7494.0	34.9	12.7	47.6	74.0	-26.4	Peak	Vertical
	8327.0	35.2	13.1	48.2	74.0	-25.8	Peak	Vertical
*	9616.0	32.8	14.9	47.7	68.2	-20.5	Peak	Vertical
*	10001.5	34.6	15.8	50.4	68.2	-17.8	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT40 - Ant 1 + 2	Test Channel	38
Note	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	35.7	12.7	48.4	74.0	-25.6	Peak	Horizontal
	8242.0	34.5	13.0	47.5	74.0	-26.5	Peak	Horizontal
*	8811.5	33.4	13.9	47.3	68.2	-20.9	Peak	Horizontal
*	9899.5	34.4	15.5	49.9	68.2	-18.3	Peak	Horizontal
	7545.0	35.2	12.7	48.0	74.0	-26.0	Peak	Vertical
	8225.0	33.6	13.0	46.6	74.0	-27.4	Peak	Vertical
*	8981.5	33.7	14.3	48.0	68.2	-20.2	Peak	Vertical
*	10307.0	32.8	17.1	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)

Product	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT40 - Ant 1 + 2	Test Channel	46
Note	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
	7672.5	34.6	12.8	47.4	74.0	-26.6	Peak	Horizontal
	8233.5	35.6	13.0	48.7	74.0	-25.3	Peak	Horizontal
*	8854.0	34.6	14.0	48.6	68.2	-19.6	Peak	Horizontal
*	9899.5	34.4	15.5	49.9	68.2	-18.3	Peak	Horizontal
	7638.5	34.7	12.8	47.4	74.0	-26.6	Peak	Vertical
	8276.0	34.3	13.1	47.3	74.0	-26.7	Peak	Vertical
*	8794.5	34.2	13.9	48.1	68.2	-20.1	Peak	Vertical
*	9993.0	34.4	15.7	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT40 - Ant 1 + 2	Test Channel	151
Note	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
	7630.0	34.4	12.8	47.1	74.0	-26.9	Peak	Horizontal
	8369.5	34.4	13.1	47.5	74.0	-26.5	Peak	Horizontal
*	8888.0	34.2	14.1	48.3	68.2	-19.9	Peak	Horizontal
*	9823.0	34.5	15.4	49.9	68.2	-18.3	Peak	Horizontal
	7494.0	34.0	12.7	46.7	74.0	-27.3	Peak	Vertical
	8386.5	34.1	13.1	47.2	74.0	-26.8	Peak	Vertical
*	8726.5	33.9	13.7	47.7	68.2	-20.5	Peak	Vertical
*	9857.0	33.2	15.4	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT40 - Ant 1 + 2	Test Channel	159
Note	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	34.5	12.7	47.2	74.0	-26.8	Peak	Horizontal
	8165.5	34.5	13.0	47.5	74.0	-26.5	Peak	Horizontal
*	8896.5	34.3	14.1	48.5	68.2	-19.7	Peak	Horizontal
*	9772.0	33.8	15.2	49.1	68.2	-19.1	Peak	Horizontal
	7689.5	35.0	12.8	47.8	74.0	-26.2	Peak	Vertical
	8352.5	34.6	13.1	47.7	74.0	-26.3	Peak	Vertical
*	8786.0	34.7	13.9	48.5	68.2	-19.7	Peak	Vertical
*	9865.5	35.0	15.5	50.5	68.2	-17.7	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT80 - Ant 1 + 2	Test Channel	42
Note	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
	7664.0	35.2	12.8	48.0	74.0	-26.0	Peak	Horizontal
	8361.0	34.9	13.1	48.0	74.0	-26.0	Peak	Horizontal
*	8667.0	34.6	13.6	48.2	68.2	-20.0	Peak	Horizontal
*	10426.5	33.9	17.6	51.6	68.2	-16.6	Peak	Horizontal
	7511.0	34.9	12.7	47.7	74.0	-26.3	Peak	Vertical
	8429.0	35.3	13.1	48.4	74.0	-25.6	Peak	Vertical
*	8871.0	35.1	14.1	49.2	68.2	-19.0	Peak	Vertical
*	9712.5	34.9	15.1	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	Streaming Media Player	Temperature	26°C
Test Engineer	Kevin Ker	Relative Humidity	57 %
Test Site	AC1	Test Date	2019/05/17
Test Mode	802.11ac-VHT80 - Ant 1 + 2	Test Channel	155
Note	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
	7392.0	34.8	12.4	47.3	74.0	-26.7	Peak	Horizontal
	8165.5	34.9	13.0	47.9	74.0	-26.1	Peak	Horizontal
*	8760.5	34.2	13.8	48.0	68.2	-20.2	Peak	Horizontal
*	10010.0	34.5	15.8	50.3	68.2	-17.9	Peak	Horizontal
	7565.0	34.2	12.7	46.9	74.0	-27.1	Peak	Vertical
	8327.0	34.5	13.1	47.6	74.0	-26.4	Peak	Vertical
*	8701.0	33.8	13.6	47.4	68.2	-20.8	Peak	Vertical
*	9848.5	33.8	15.4	49.2	68.2	-19.0	Peak	Vertical

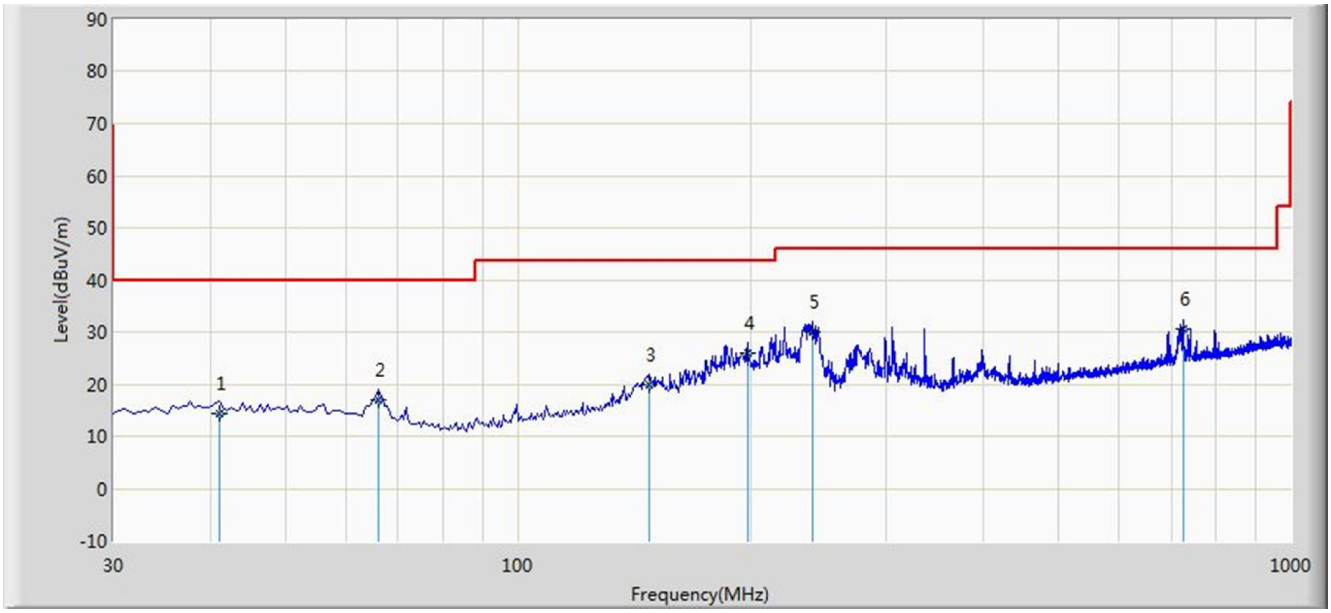
Note 1: "*" is not in restricted band, its limit is -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBμV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions.

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

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

The Worst Case of Radiated Emission below 1GHz:

Site: AC1	Time: 2019/06/06 - 19:13
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Test Mode: There is the worst case within frequency range 30MHz~1GHz.	



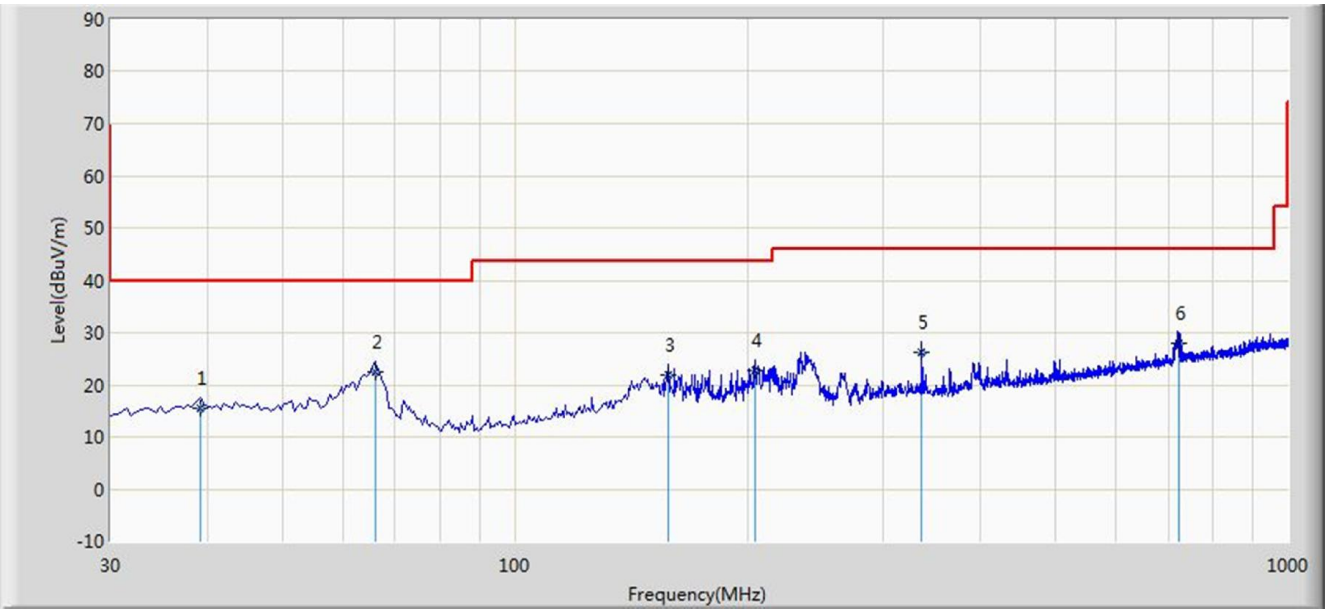
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			41.155	14.361	-0.240	-25.639	40.000	14.601	QP
2			65.890	16.976	4.551	-23.024	40.000	12.424	QP
3			147.855	19.980	4.735	-23.520	43.500	15.245	QP
4			198.295	26.034	14.624	-17.466	43.500	11.410	QP
5			240.490	29.918	16.906	-16.082	46.000	13.012	QP
6		*	725.005	30.438	7.642	-15.562	46.000	22.797	QP

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

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

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report.

Site: AC1	Time: 2019/06/06 - 19:16
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Test Mode: There is the worst case within frequency range 30MHz~1GHz.	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			39.215	15.540	0.939	-24.460	40.000	14.601	QP
2		*	65.890	22.566	10.141	-17.434	40.000	12.424	QP
3			158.040	21.823	6.416	-21.677	43.500	15.407	QP
4			204.600	22.727	11.313	-20.773	43.500	11.414	QP
5			336.035	26.195	10.753	-19.805	46.000	15.442	QP
6			722.580	28.097	5.343	-17.903	46.000	22.754	QP

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

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

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 40GHz), therefore no data appear in the report.

7.9. Radiated Restricted Band Edge Measurement

7.9.1.Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

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 - 156.525	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 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Refer to KDB 789033 D02v02r01 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.

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 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
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

7.9.2.Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

ANSI C63.10 Section 6.6 (Standard test method above 1GHz)

7.9.3.Test Setting

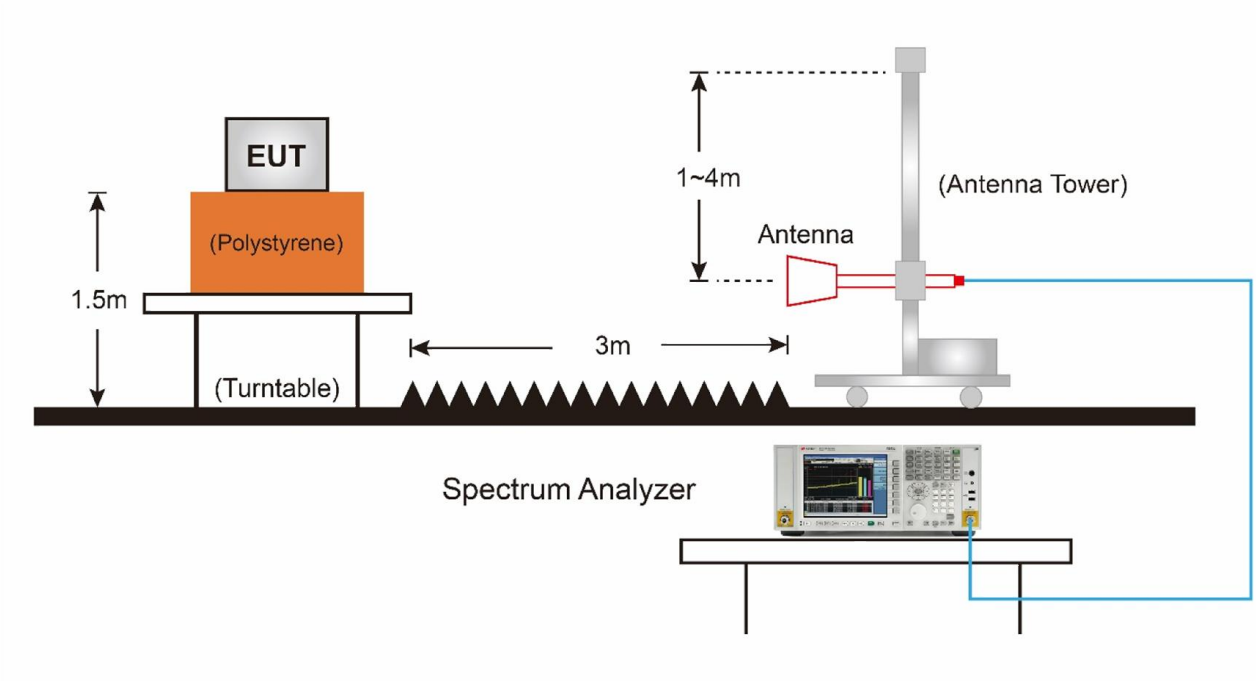
Peak Measurements above 1GHz

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)

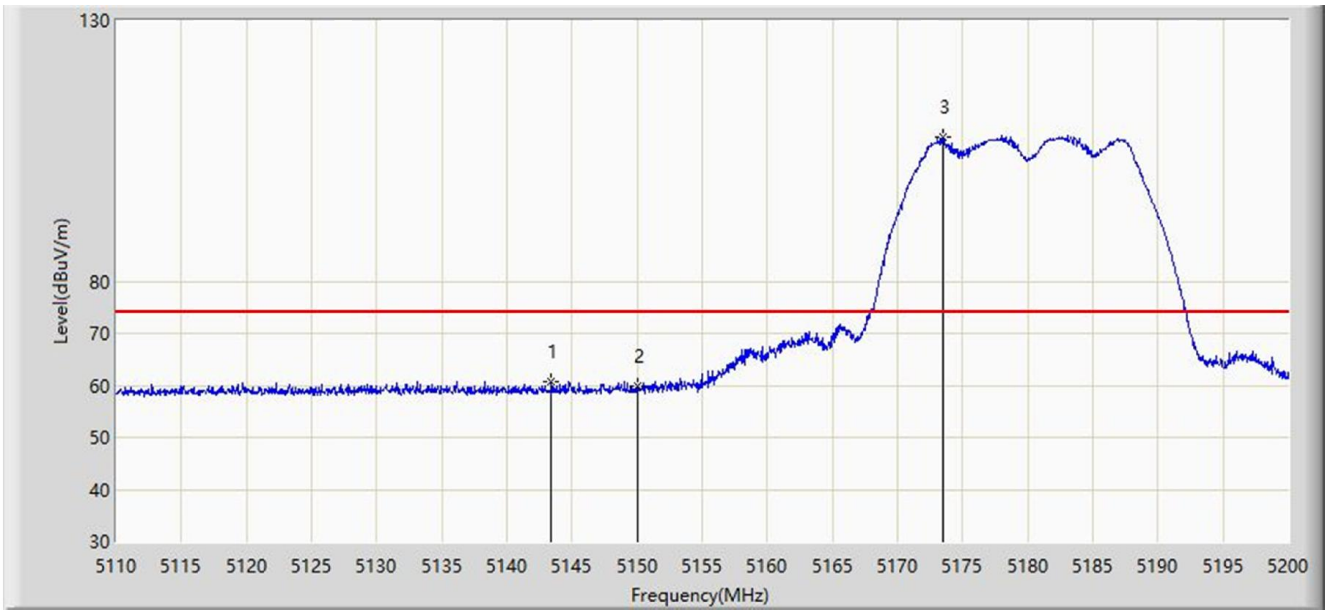
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW If the EUT is configured to transmit with duty cycle ≥ 98%, set VBW ≤ RBW/100 (i.e., 10 kHz) but not less than 10 Hz. If the EUT duty cycle is < 98%, set VBW ≥ 1/T.
4. Detector = Peak
5. Sweep time = auto
6. Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98% duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of 1/x, where x is the duty cycle.

7.9.4.Test Setup



7.9.5.Test Result

Site: AC1	Time: 2019/05/25 - 12:51
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11a at Channel 5180MHz	

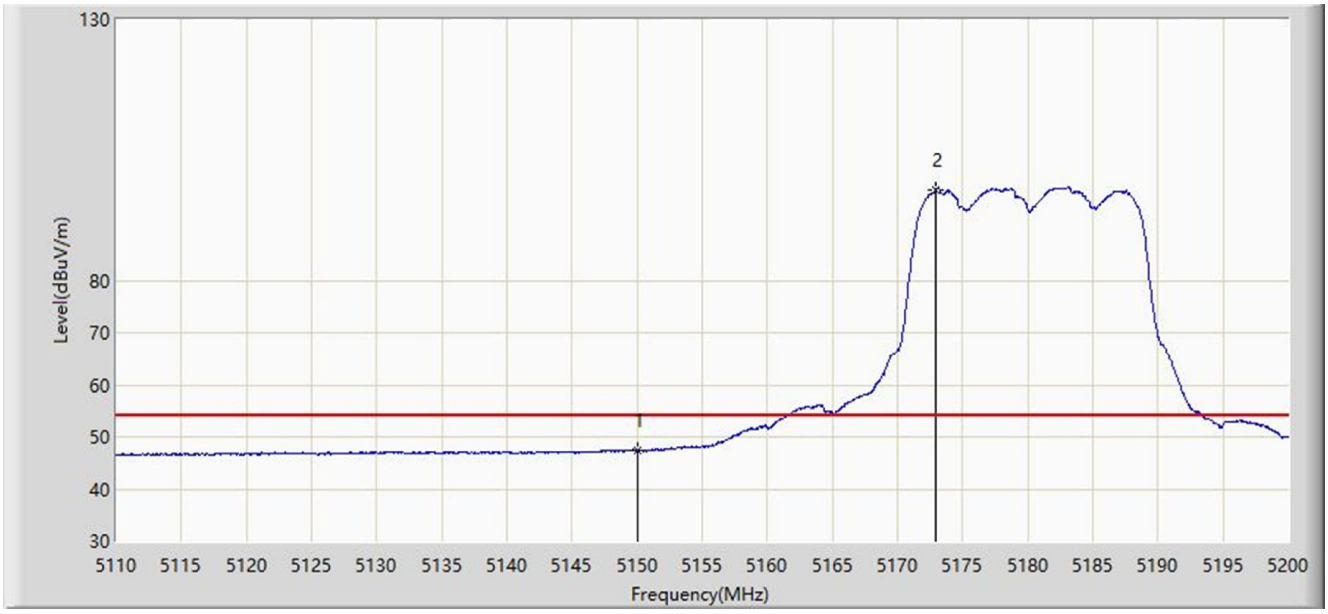


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5143.435	60.651	56.781	-13.349	74.000	3.870	PK
2			5150.000	59.734	55.858	-14.266	74.000	3.876	PK
3		*	5173.450	107.640	103.744	N/A	N/A	3.896	PK

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

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

Site: AC1	Time: 2019/05/25 - 12:54
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11a at Channel 5180MHz	

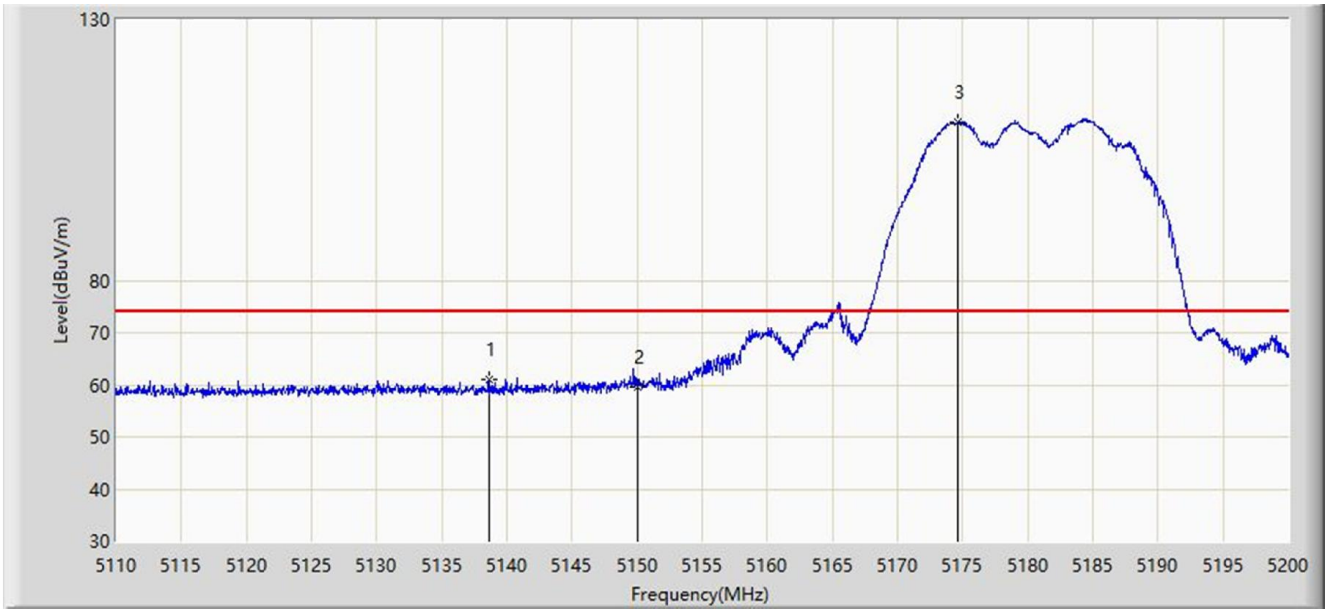


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	47.379	43.503	-6.621	54.000	3.876	AV
2		*	5172.910	97.304	93.409	N/A	N/A	3.895	AV

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

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

Site: AC1	Time: 2019/05/25 - 12:55
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11a at Channel 5180MHz	

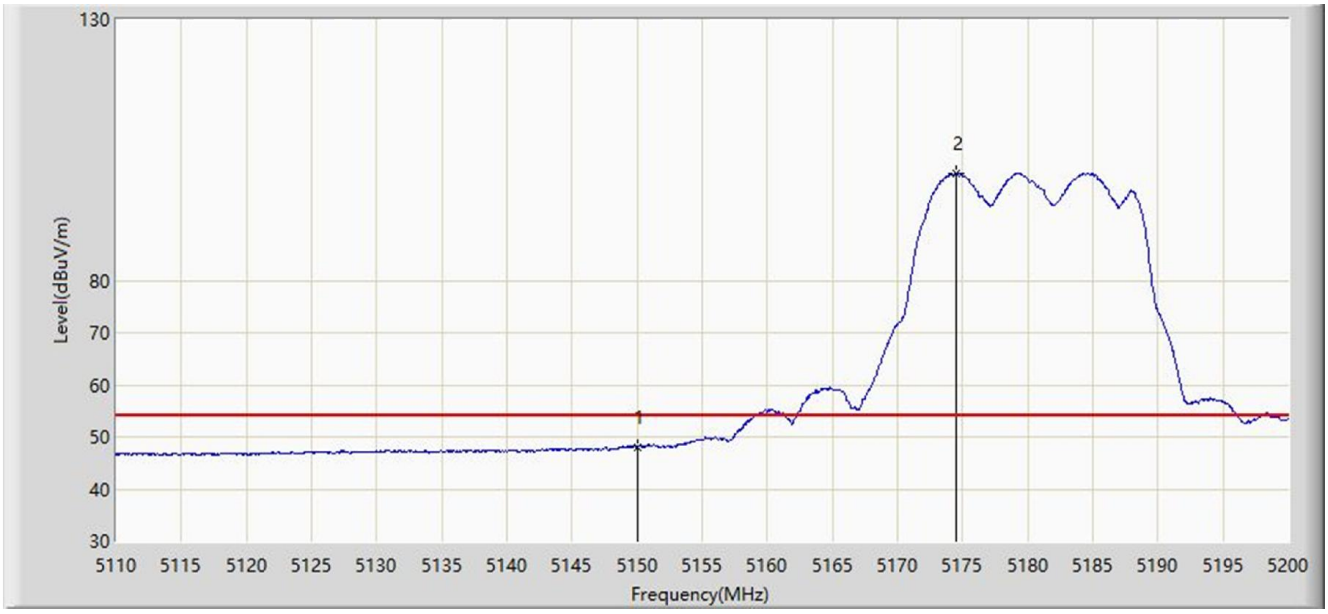


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5138.620	60.978	57.112	-13.022	74.000	3.866	PK
2			5150.000	59.690	55.814	-14.310	74.000	3.876	PK
3		*	5174.665	110.344	106.447	N/A	N/A	3.897	PK

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

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

Site: AC1	Time: 2019/05/25 - 12:57
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11a at Channel 5180MHz	

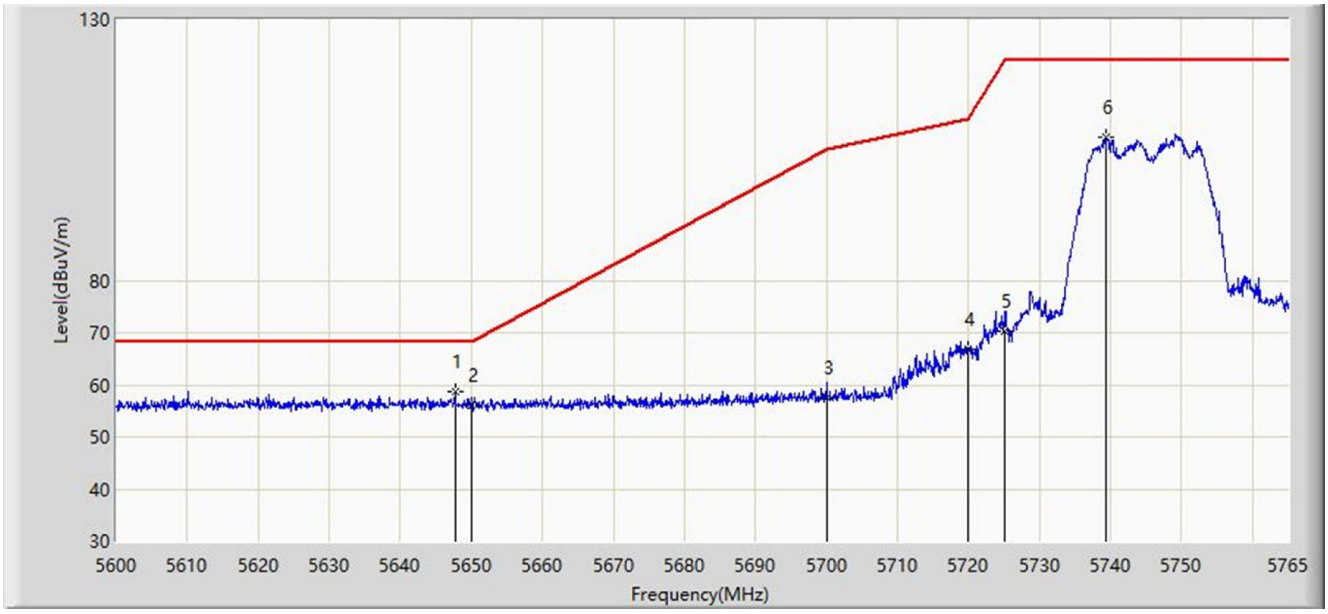


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	48.115	44.239	-5.885	54.000	3.876	AV
2		*	5174.485	100.376	96.479	N/A	N/A	3.897	AV

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

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

Site: AC1	Time: 2019/05/13 - 17:46
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11a at Channel 5745MHz	

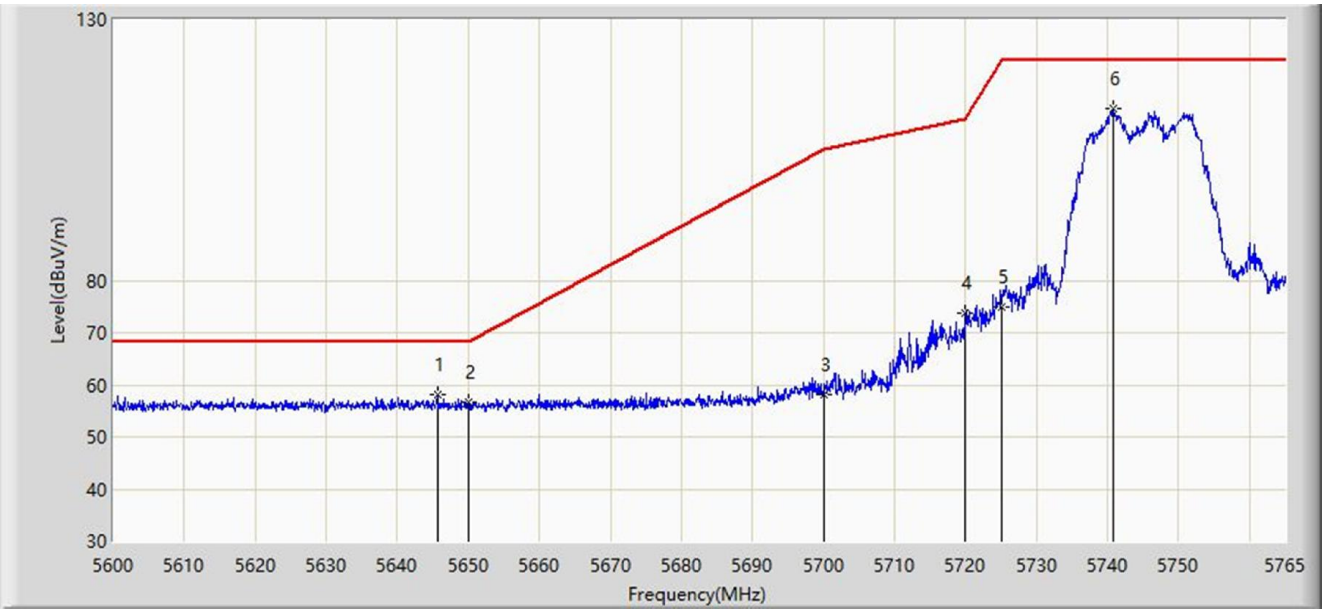


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5647.685	58.676	53.939	-9.524	68.200	4.737	PK
2			5650.000	56.213	51.467	-11.987	68.200	4.746	PK
3			5700.000	57.650	52.712	-47.550	105.200	4.938	PK
4			5720.000	66.869	61.854	-43.931	110.800	5.015	PK
5			5725.000	70.318	65.284	-51.882	122.200	5.034	PK
6			5739.425	107.387	102.298	N/A	N/A	5.090	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: AC1	Time: 2019/05/13 - 17:52
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11a at Channel 5745MHz	

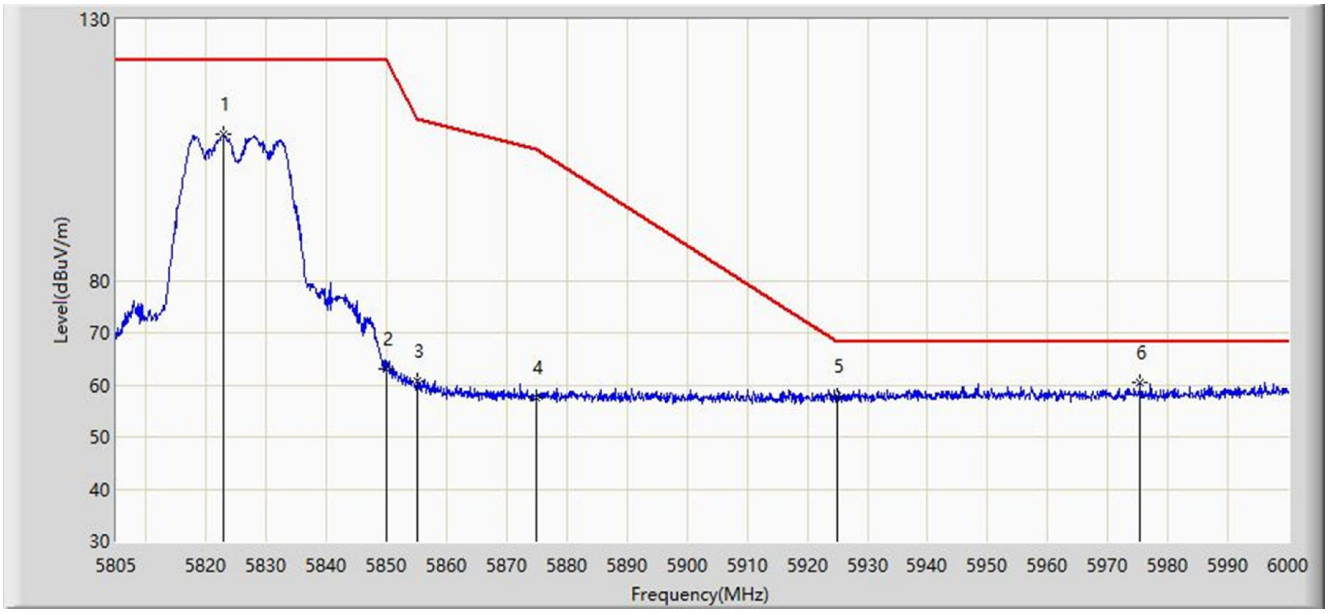


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5645.623	58.103	53.373	-10.097	68.200	4.730	PK
2			5650.000	56.753	52.007	-11.447	68.200	4.746	PK
3			5700.000	58.153	53.215	-47.047	105.200	4.938	PK
4			5720.000	73.837	68.822	-36.963	110.800	5.015	PK
5			5725.000	74.949	69.915	-47.251	122.200	5.034	PK
6		*	5740.828	112.981	107.886	N/A	N/A	5.094	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: AC1	Time: 2019/05/13 - 17:54
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11a at Channel 5825MHz	

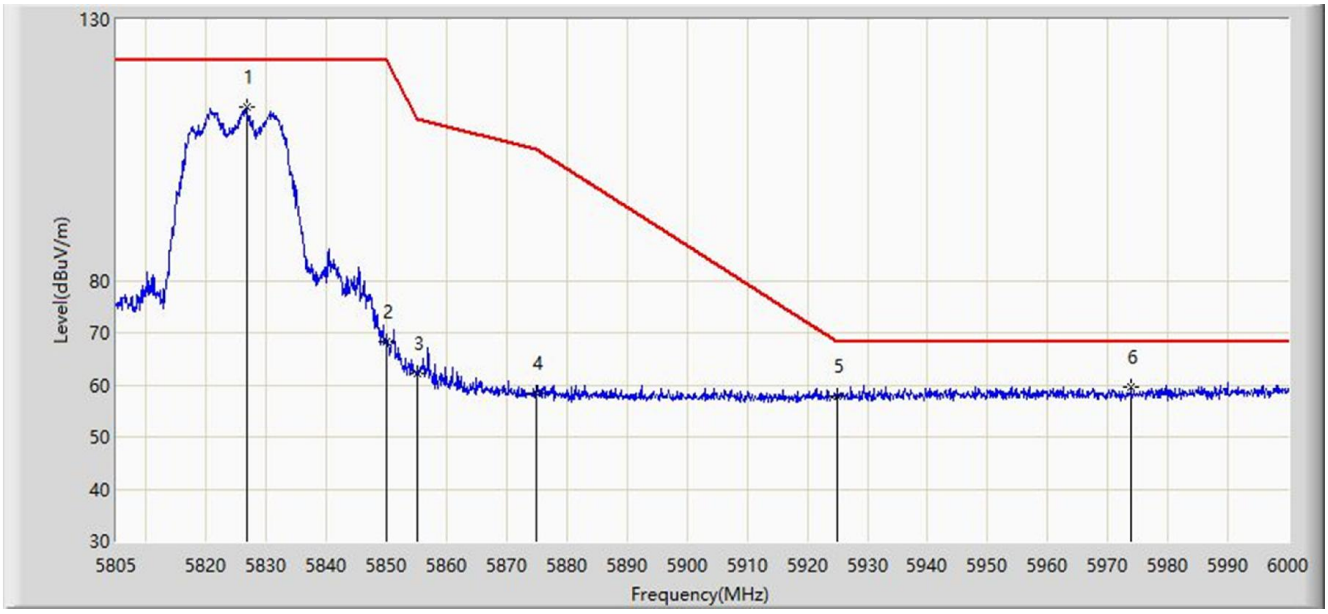


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5822.940	107.987	102.577	N/A	N/A	5.410	PK
2			5850.000	63.102	57.588	-59.098	122.200	5.514	PK
3			5855.000	60.583	55.050	-50.217	110.800	5.533	PK
4			5875.000	57.571	51.961	-47.629	105.200	5.610	PK
5			5925.000	57.723	51.921	-10.477	68.200	5.802	PK
6		*	5975.333	60.561	54.566	-7.639	68.200	5.995	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: AC1	Time: 2019/05/13 - 17:56
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11a at Channel 5825MHz	

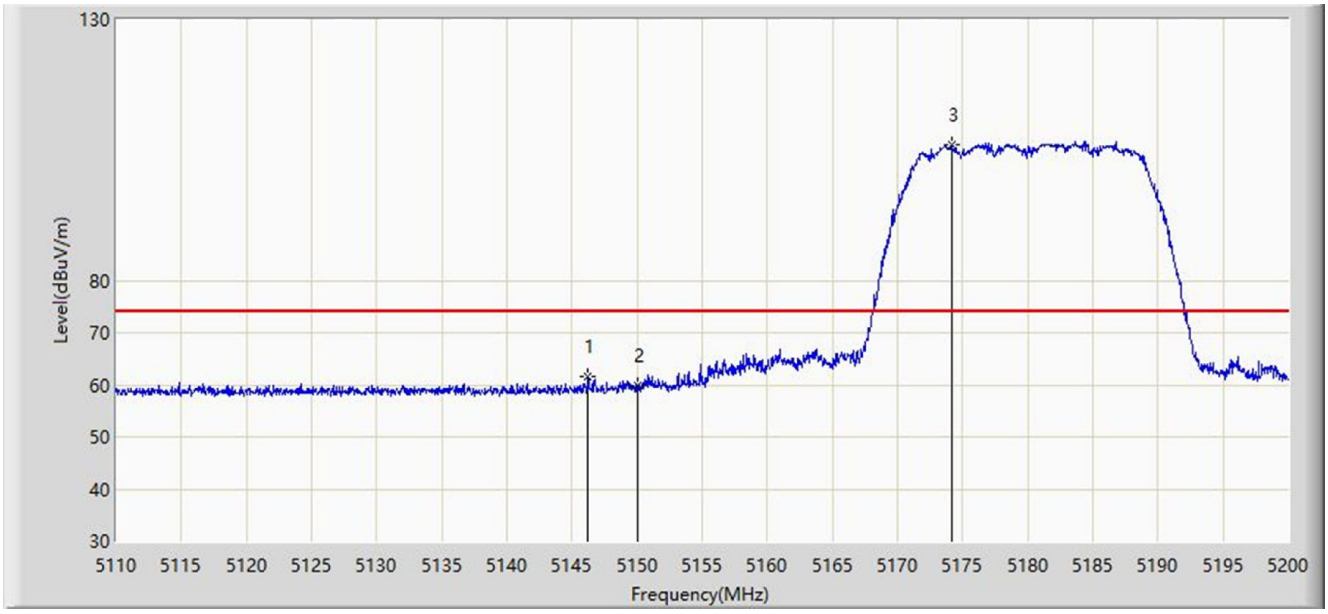


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5826.645	113.081	107.657	N/A	N/A	5.425	PK
2			5850.000	68.124	62.610	-54.076	122.200	5.514	PK
3			5855.000	62.082	56.549	-48.718	110.800	5.533	PK
4			5875.000	58.346	52.736	-46.854	105.200	5.610	PK
5			5925.000	57.891	52.089	-10.309	68.200	5.802	PK
6		*	5973.870	59.683	53.693	-8.517	68.200	5.990	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: AC1	Time: 2019/05/25 - 12:58
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT20 at Channel 5180MHz	

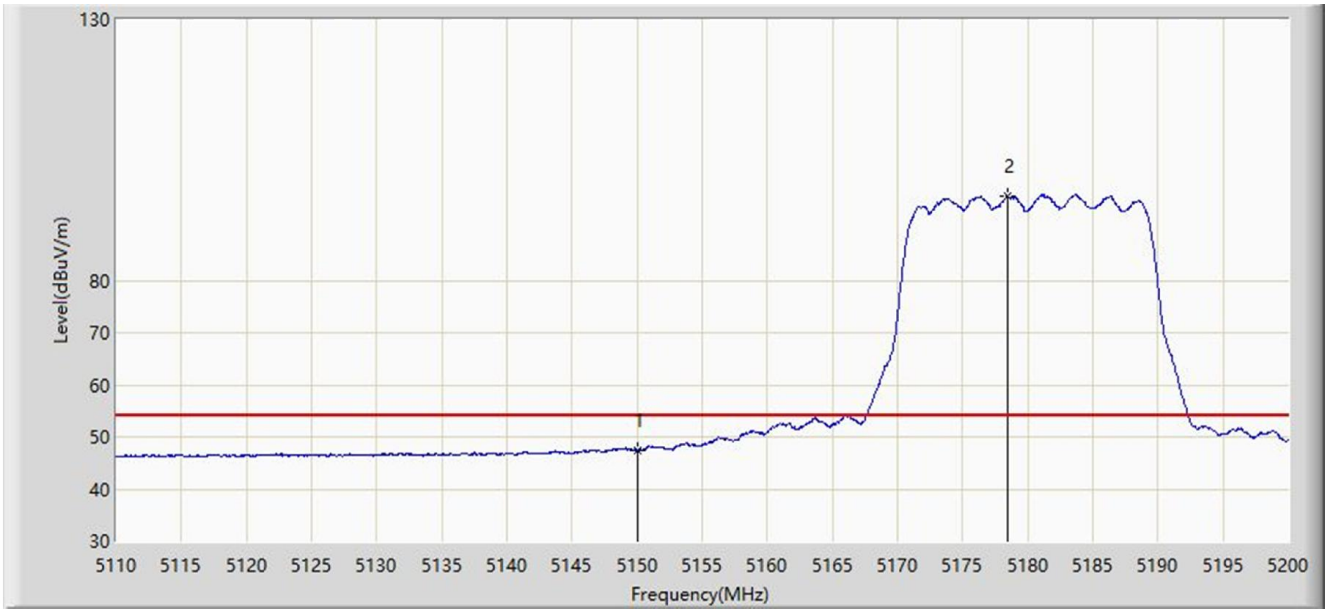


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5146.225	61.649	57.776	-12.351	74.000	3.873	PK
2			5150.000	59.828	55.952	-14.172	74.000	3.876	PK
3		*	5174.125	105.952	102.056	N/A	N/A	3.896	PK

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

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

Site: AC1	Time: 2019/05/25 - 13:03
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT20 at Channel 5180MHz	

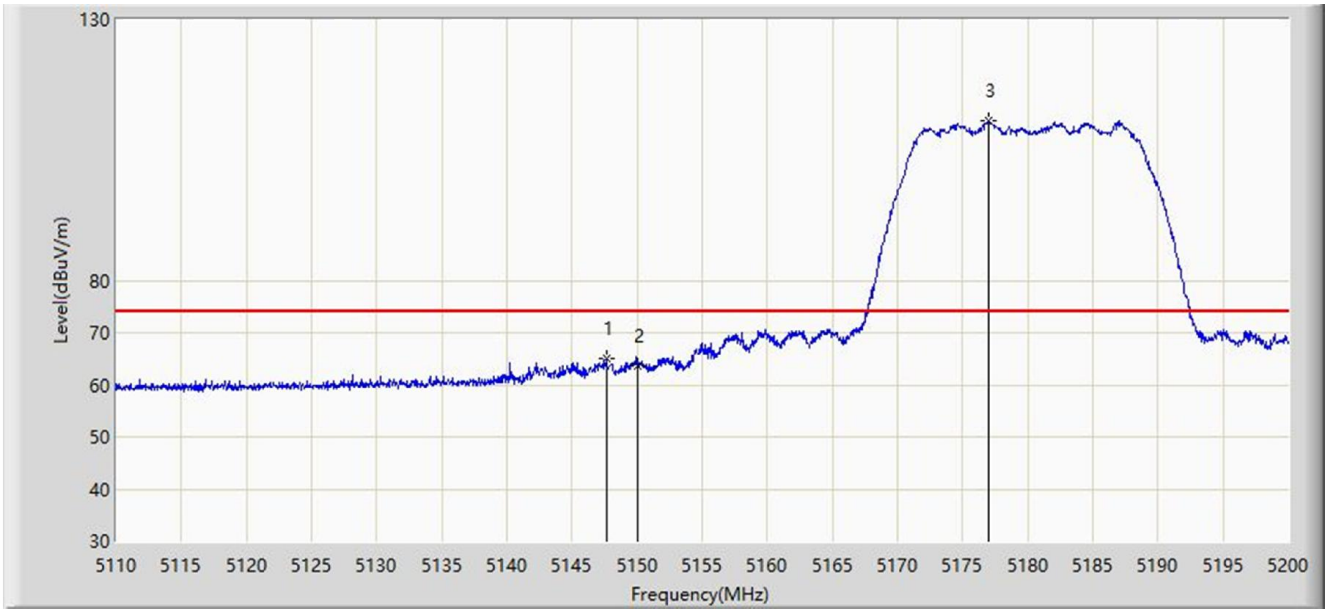


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	47.372	43.496	-6.628	54.000	3.876	AV
2		*	5178.490	96.000	92.100	N/A	N/A	3.900	AV

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

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

Site: AC1	Time: 2019/05/25 - 13:04
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT20 at Channel 5180MHz	

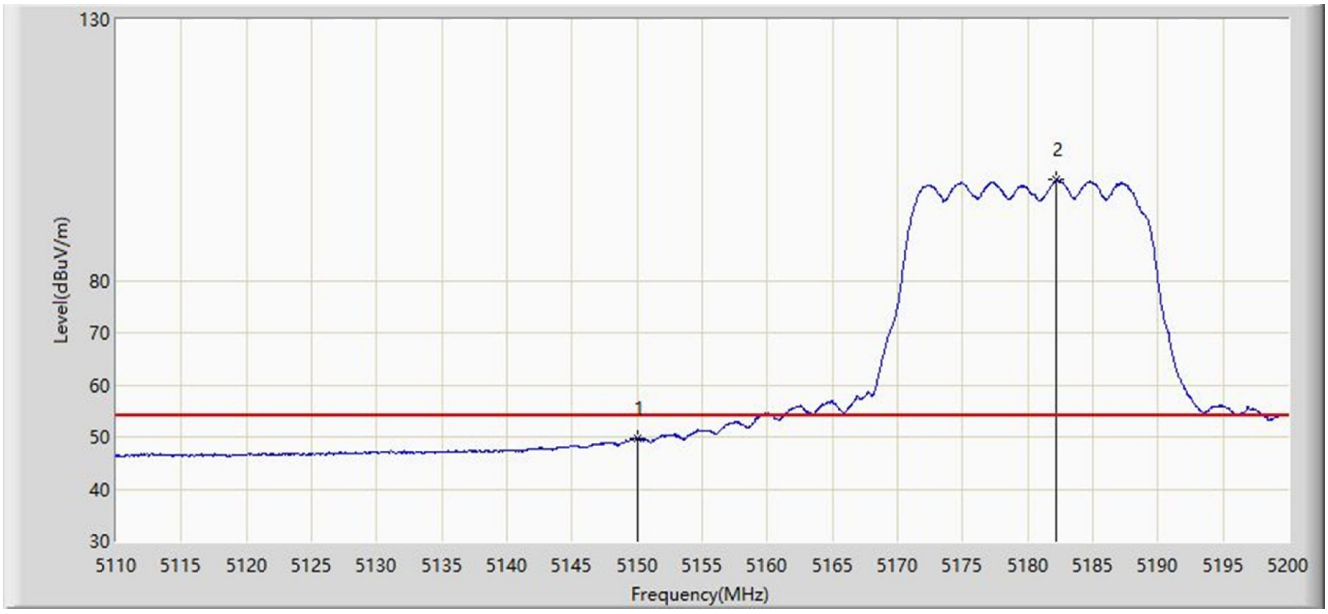


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5147.620	65.133	61.259	-8.867	74.000	3.874	PK
2			5150.000	63.746	59.870	-10.254	74.000	3.876	PK
3		*	5176.960	110.449	106.550	N/A	N/A	3.899	PK

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

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

Site: AC1	Time: 2019/05/25 - 13:20
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT20 at Channel 5180MHz	

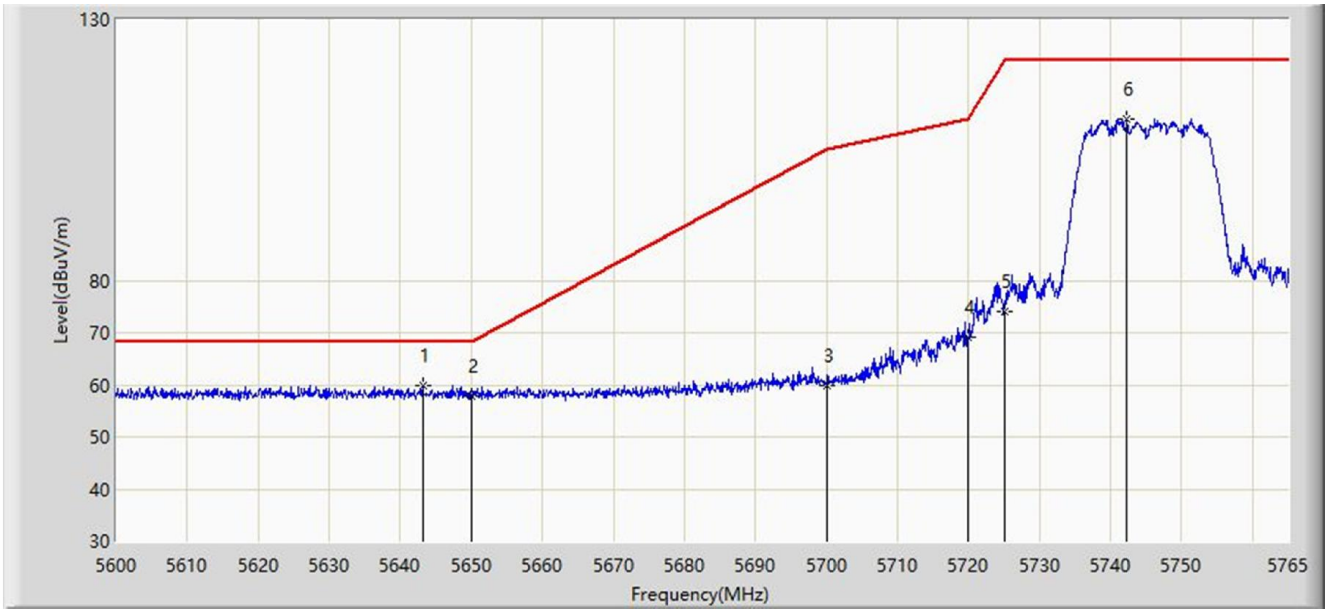


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	49.674	45.798	-4.326	54.000	3.876	AV
2		*	5182.180	99.178	95.275	N/A	N/A	3.903	AV

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

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

Site: AC1	Time: 2019/05/13 - 18:43
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT20 at Channel 5745MHz	

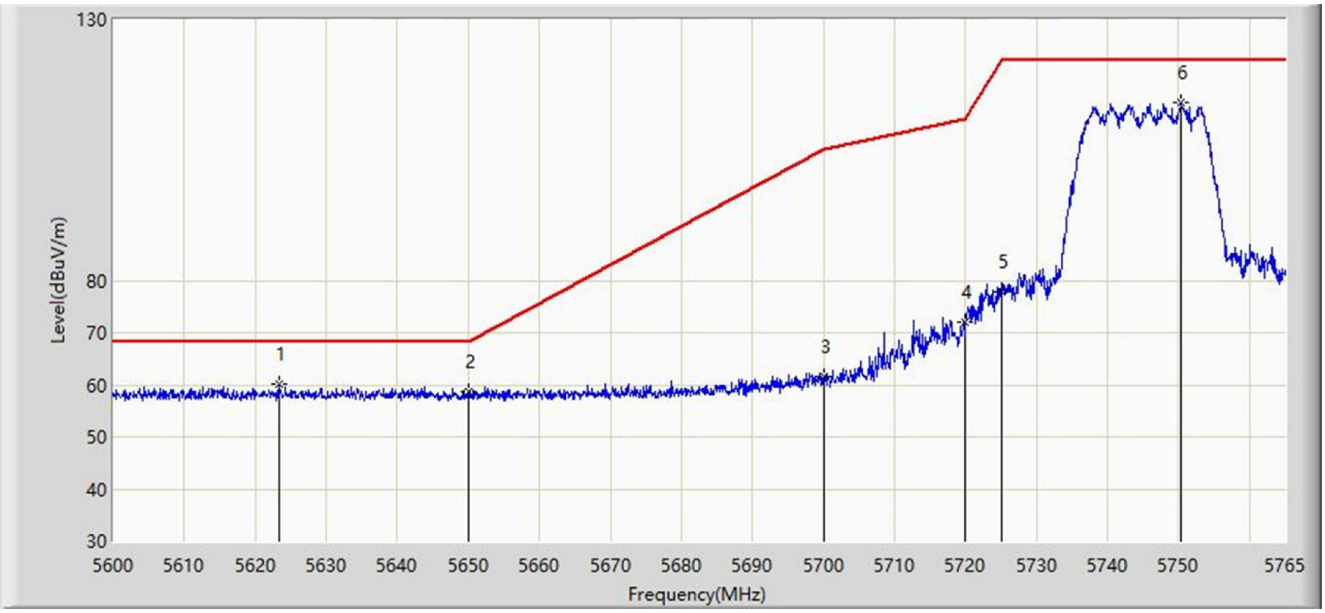


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5643.147	59.896	55.176	-8.304	68.200	4.721	PK
2			5650.000	57.844	53.098	-10.356	68.200	4.746	PK
3			5700.000	59.791	54.853	-45.409	105.200	4.938	PK
4			5720.000	69.014	63.999	-41.786	110.800	5.015	PK
5			5725.000	74.070	69.036	-48.130	122.200	5.034	PK
6			5742.312	110.988	105.888	N/A	N/A	5.100	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: AC1	Time: 2019/05/13 - 18:45
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT20 at Channel 5745MHz	

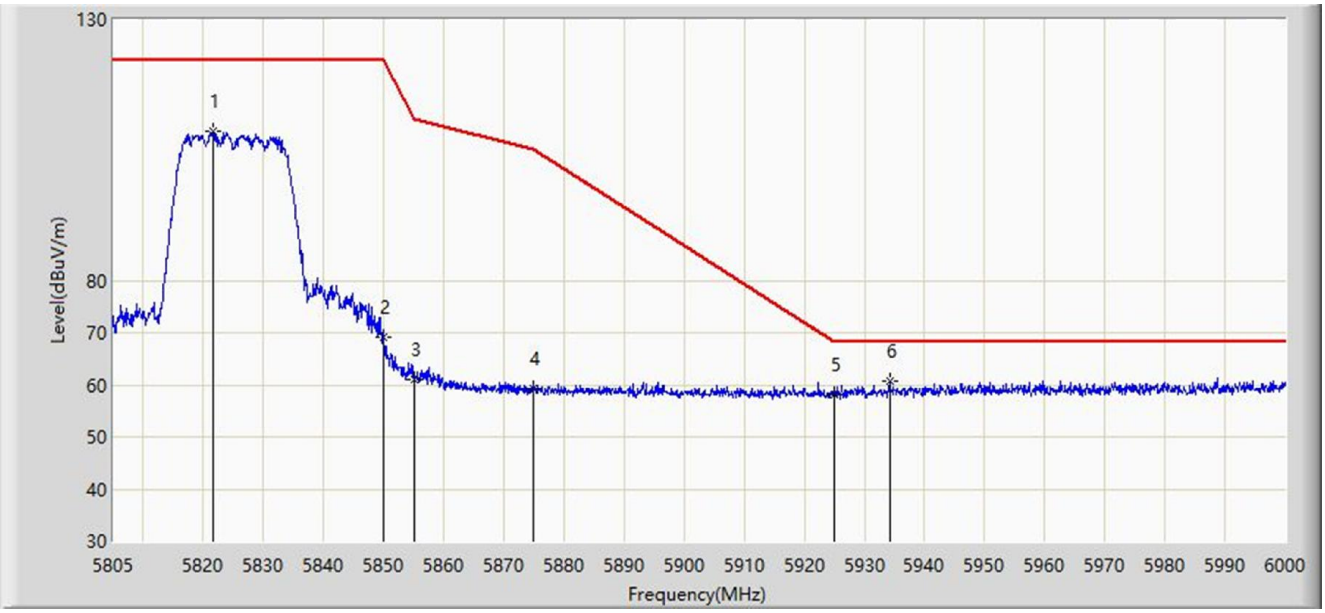


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5623.430	60.010	55.366	-8.190	68.200	4.644	PK
2			5650.000	58.672	53.926	-9.528	68.200	4.746	PK
3			5700.000	61.514	56.576	-43.686	105.200	4.938	PK
4			5720.000	72.105	67.090	-38.695	110.800	5.015	PK
5			5725.000	77.929	72.895	-44.271	122.200	5.034	PK
6		*	5750.397	114.133	109.002	N/A	N/A	5.131	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: AC1	Time: 2019/05/13 - 18:47
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT20 at Channel 5825MHz	

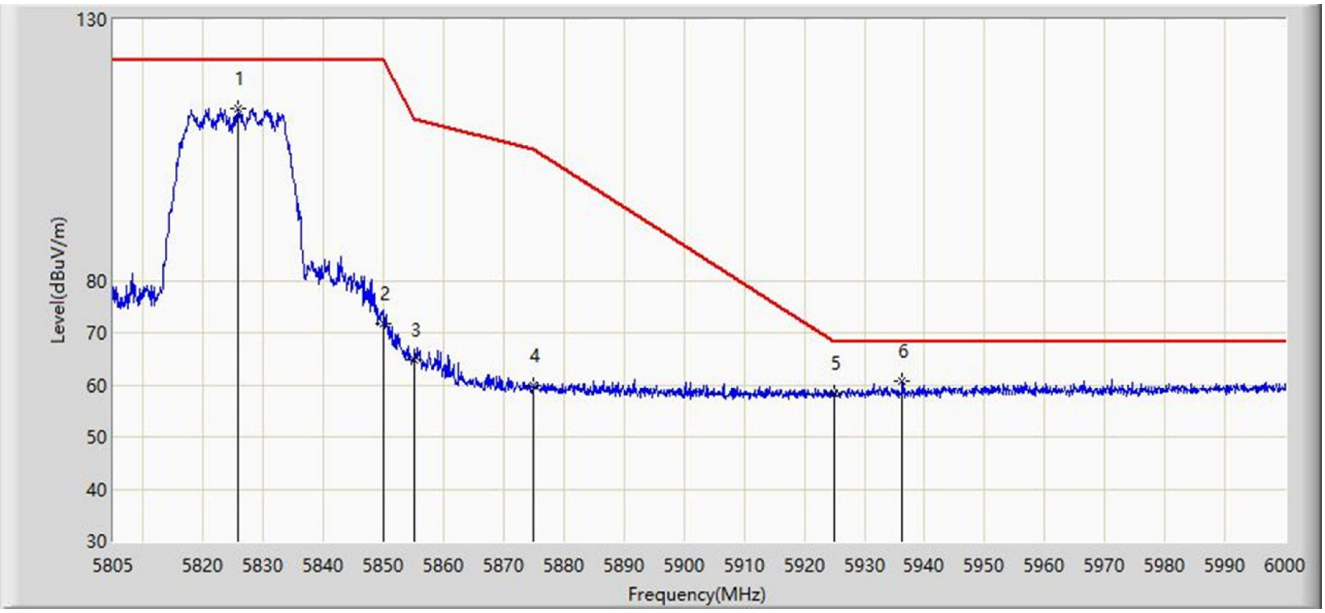


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5821.575	108.427	103.022	N/A	N/A	5.405	PK
2			5850.000	69.254	63.740	-52.946	122.200	5.514	PK
3			5855.000	61.094	55.561	-49.706	110.800	5.533	PK
4			5875.000	59.314	53.704	-45.886	105.200	5.610	PK
5			5925.000	58.207	52.405	-9.993	68.200	5.802	PK
6		*	5934.187	60.719	54.882	-7.481	68.200	5.838	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: AC1	Time: 2019/05/13 - 18:49
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT20 at Channel 5825MHz	

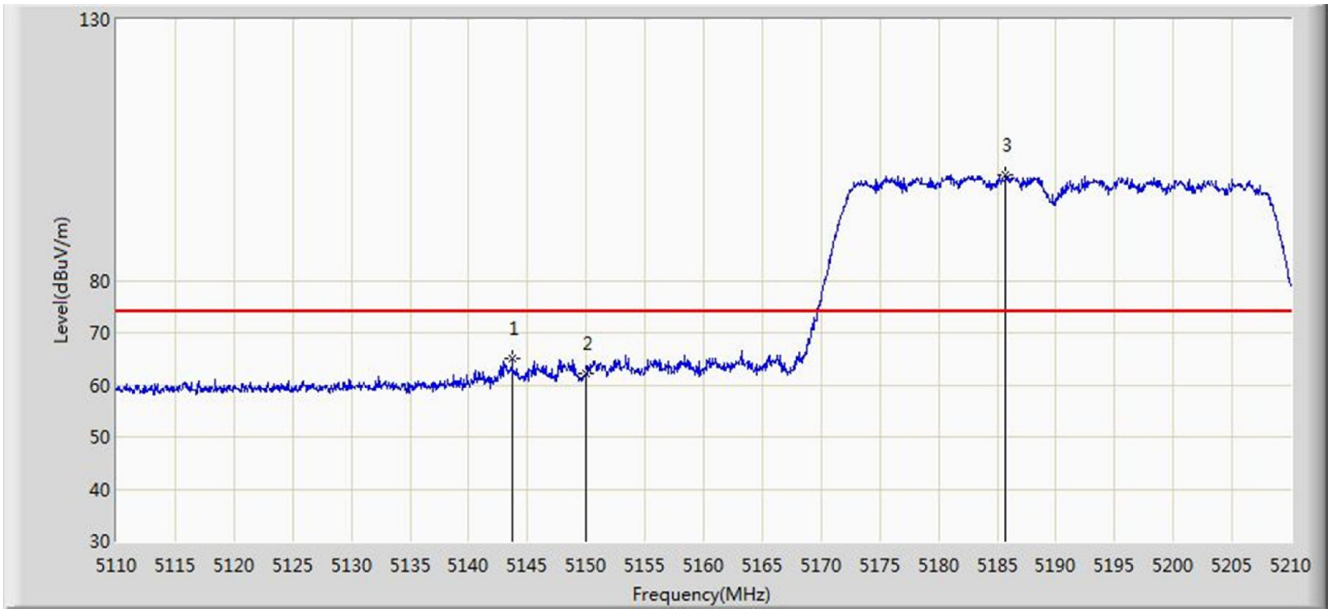


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5825.865	112.872	107.451	N/A	N/A	5.421	PK
2			5850.000	71.803	66.289	-50.397	122.200	5.514	PK
3			5855.000	64.916	59.383	-45.884	110.800	5.533	PK
4			5875.000	59.792	54.182	-45.408	105.200	5.610	PK
5			5925.000	58.267	52.465	-9.933	68.200	5.802	PK
6		*	5936.333	60.637	54.791	-7.563	68.200	5.846	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: AC1	Time: 2019/05/28 - 15:27
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT40 at Channel 5190MHz	

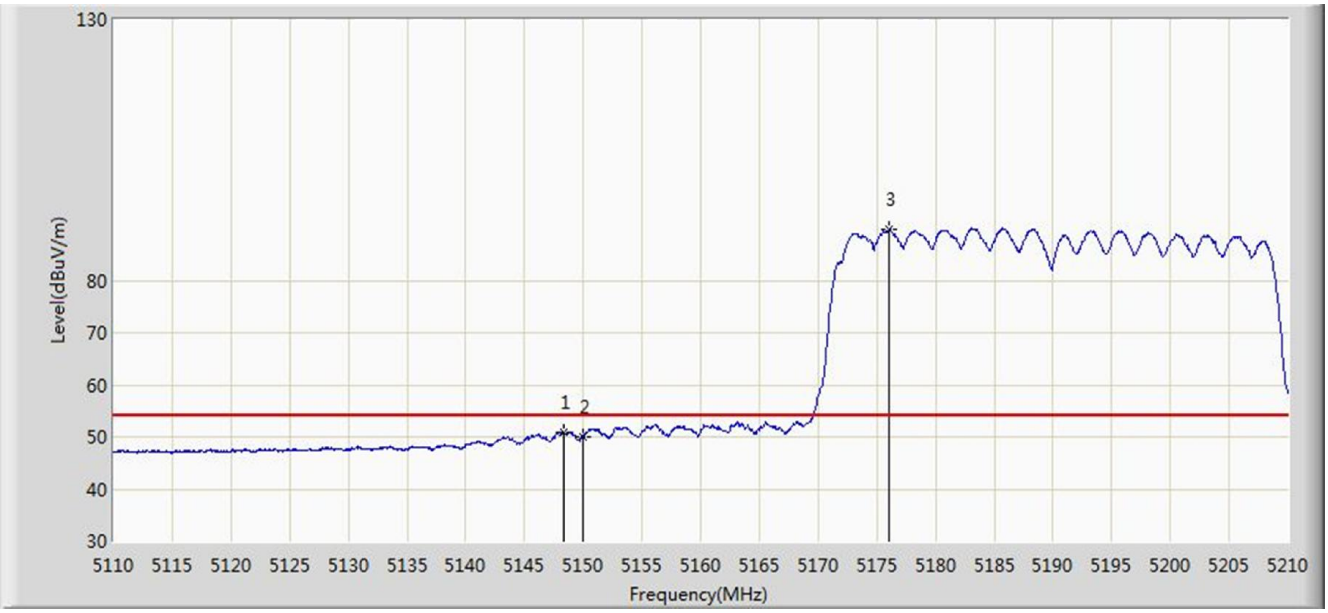


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5143.700	65.147	58.691	-8.853	74.000	6.455	PK
2			5150.000	62.057	55.660	-11.943	74.000	6.398	PK
3		*	5185.750	100.055	93.503	26.055	74.000	6.552	PK

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

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

Site: AC1	Time: 2019/05/28 - 15:32
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT40 at Channel 5190MHz	

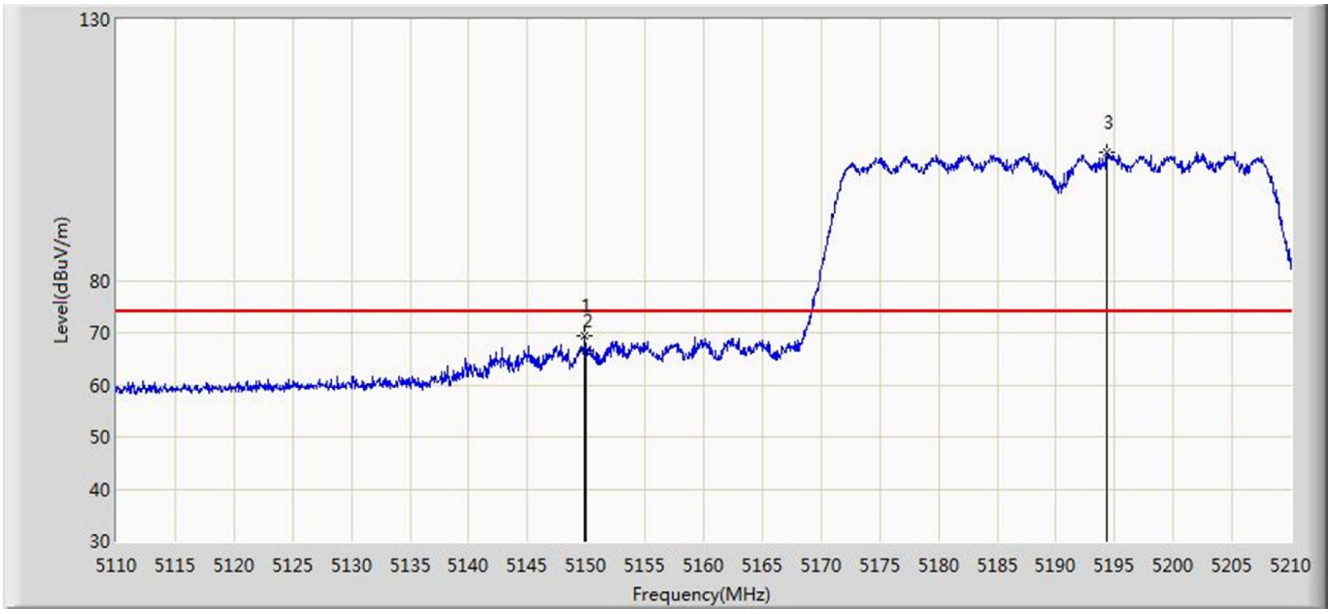


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.400	50.969	44.577	-3.031	54.000	6.392	AV
2			5150.000	50.073	43.676	-3.927	54.000	6.398	AV
3		*	5176.050	89.594	83.062	35.594	54.000	6.532	AV

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

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

Site: AC1	Time: 2019/05/28 - 15:33
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT40 at Channel 5190MHz	

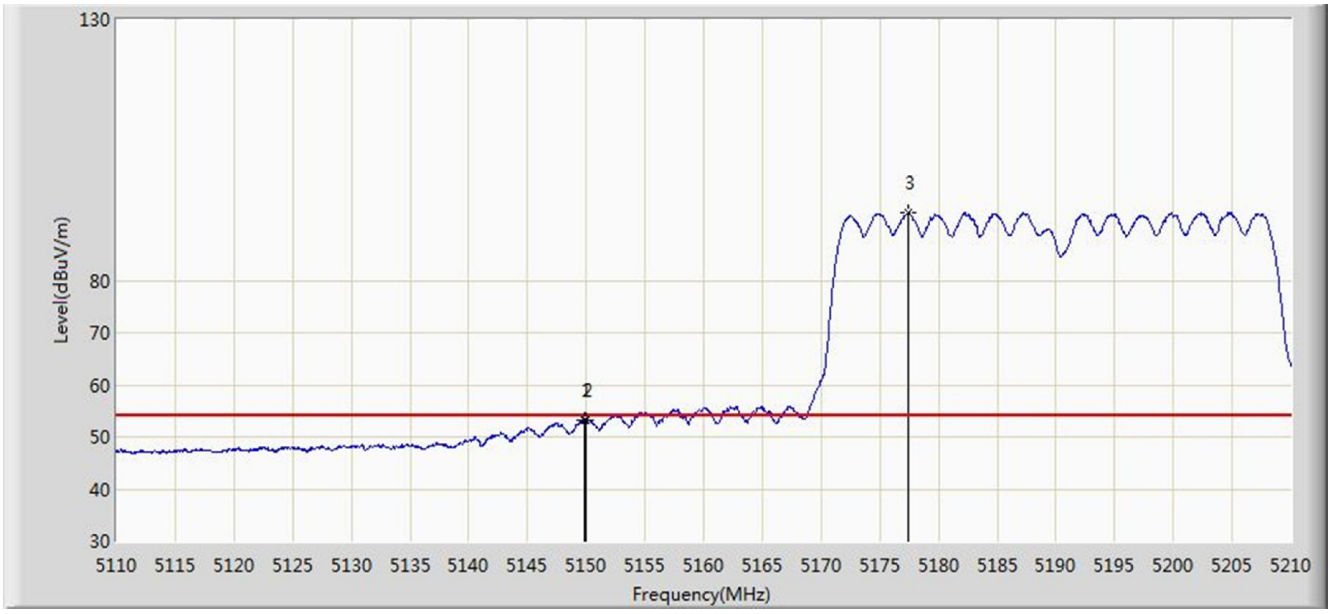


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.900	69.424	63.027	-4.576	74.000	6.397	PK
2			5150.000	66.460	60.063	-7.540	74.000	6.398	PK
3		*	5194.350	104.631	98.163	N/A	N/A	6.468	PK

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

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

Site: AC1	Time: 2019/05/28 - 15:35
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT40 at Channel 5190MHz	

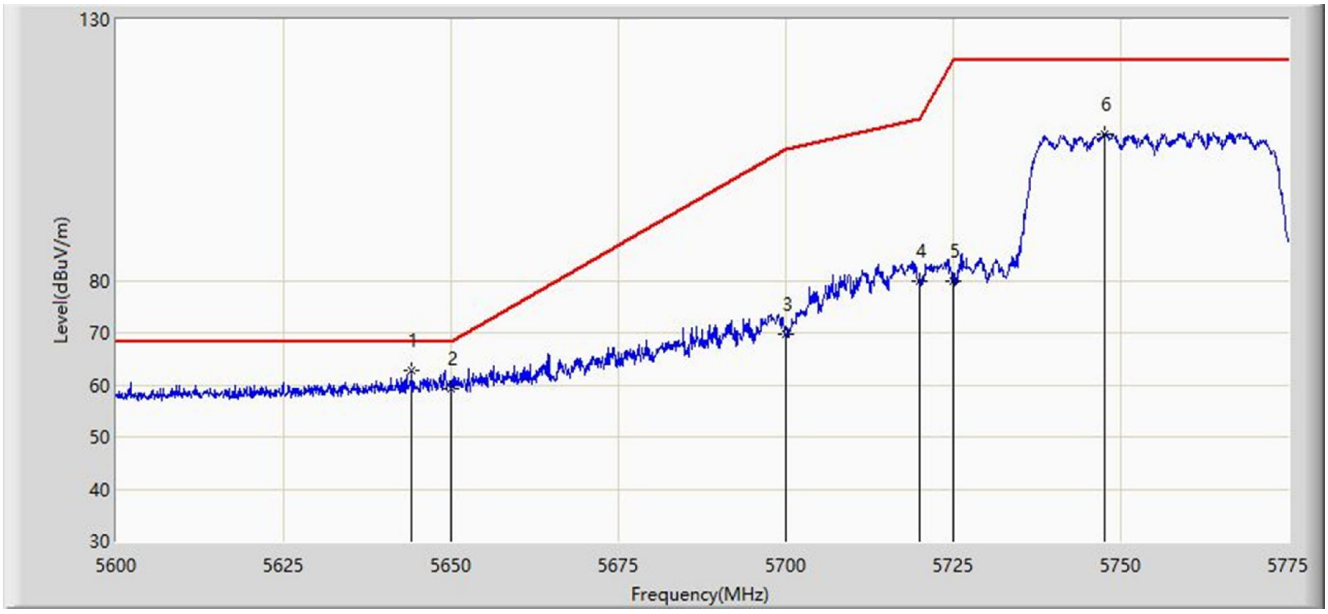


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.800	53.327	46.930	-0.673	54.000	6.396	AV
2			5150.000	53.208	46.811	-0.792	54.000	6.398	AV
3		*	5177.450	92.960	86.415	N/A	N/A	6.545	AV

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

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

Site: AC1	Time: 2019/05/13 - 18:54
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT40 at Channel 5755MHz	

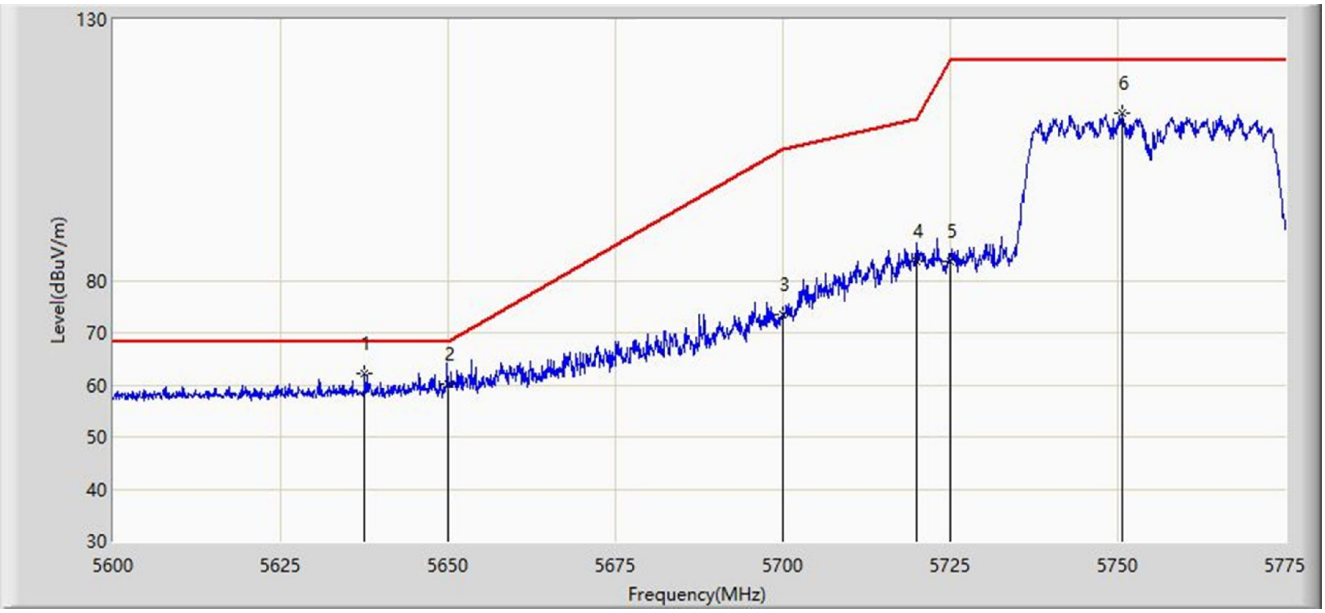


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5644.187	62.682	57.958	-5.518	68.200	4.724	PK
2			5650.000	59.363	54.617	-8.837	68.200	4.746	PK
3			5700.000	69.624	64.686	-35.576	105.200	4.938	PK
4			5720.000	79.994	74.979	-30.806	110.800	5.015	PK
5			5725.000	79.967	74.933	-42.233	122.200	5.034	PK
6			5747.612	108.110	102.989	N/A	N/A	5.120	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: AC1	Time: 2019/05/13 - 18:57
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT40 at Channel 5755MHz	

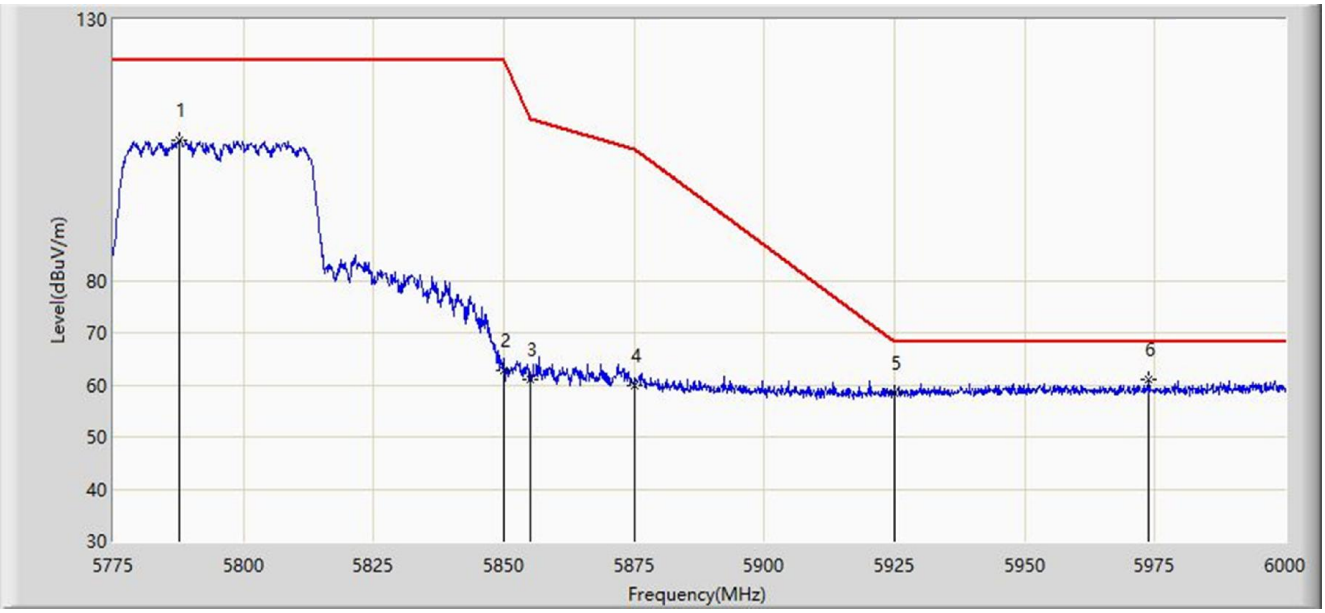


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5637.538	62.315	57.616	-5.885	68.200	4.699	PK
2			5650.000	60.171	55.425	-8.029	68.200	4.746	PK
3			5700.000	73.563	68.625	-31.637	105.200	4.938	PK
4			5720.000	83.667	78.652	-27.133	110.800	5.015	PK
5			5725.000	83.651	78.617	-38.549	122.200	5.034	PK
6			5750.587	111.954	106.822	N/A	N/A	5.132	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: AC1	Time: 2019/05/13 - 18:59
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT40 at Channel 5795MHz	

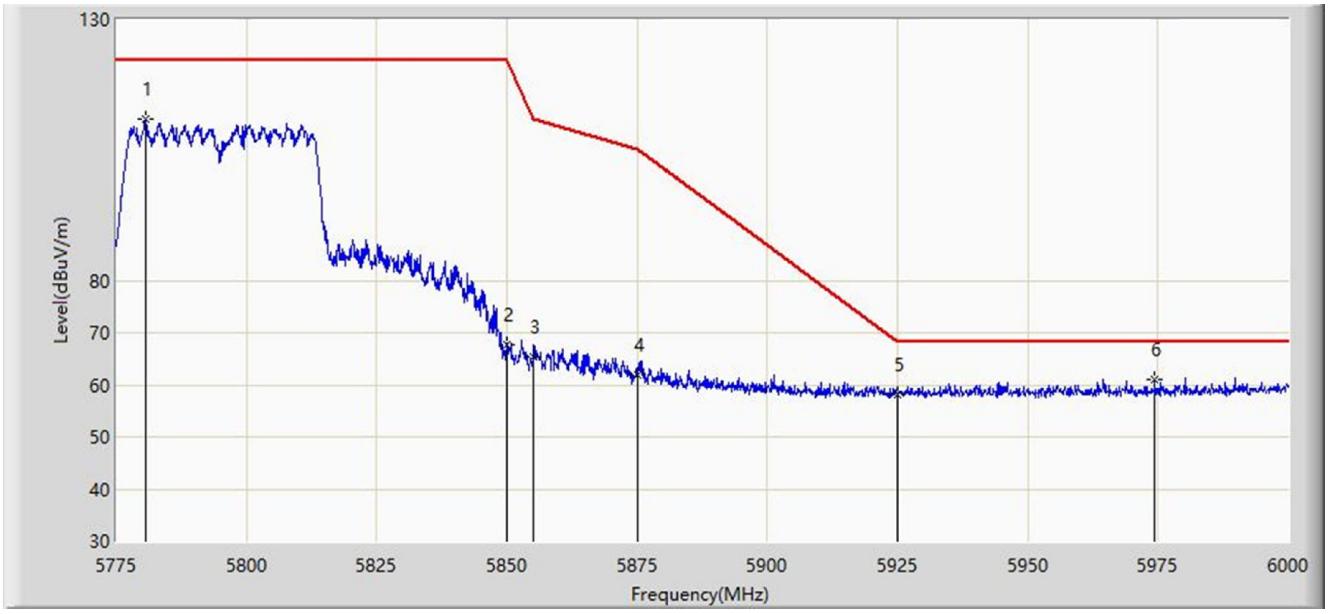


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5787.825	106.733	101.457	N/A	N/A	5.275	PK
2			5850.000	62.763	57.249	-59.437	122.200	5.514	PK
3			5855.000	61.039	55.506	-49.761	110.800	5.533	PK
4			5875.000	59.955	54.345	-45.245	105.200	5.610	PK
5			5925.000	58.431	52.629	-9.769	68.200	5.802	PK
6		*	5973.900	60.963	54.973	-7.237	68.200	5.990	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: AC1	Time: 2019/05/13 - 19:01
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11n-HT40 at Channel 5795MHz	

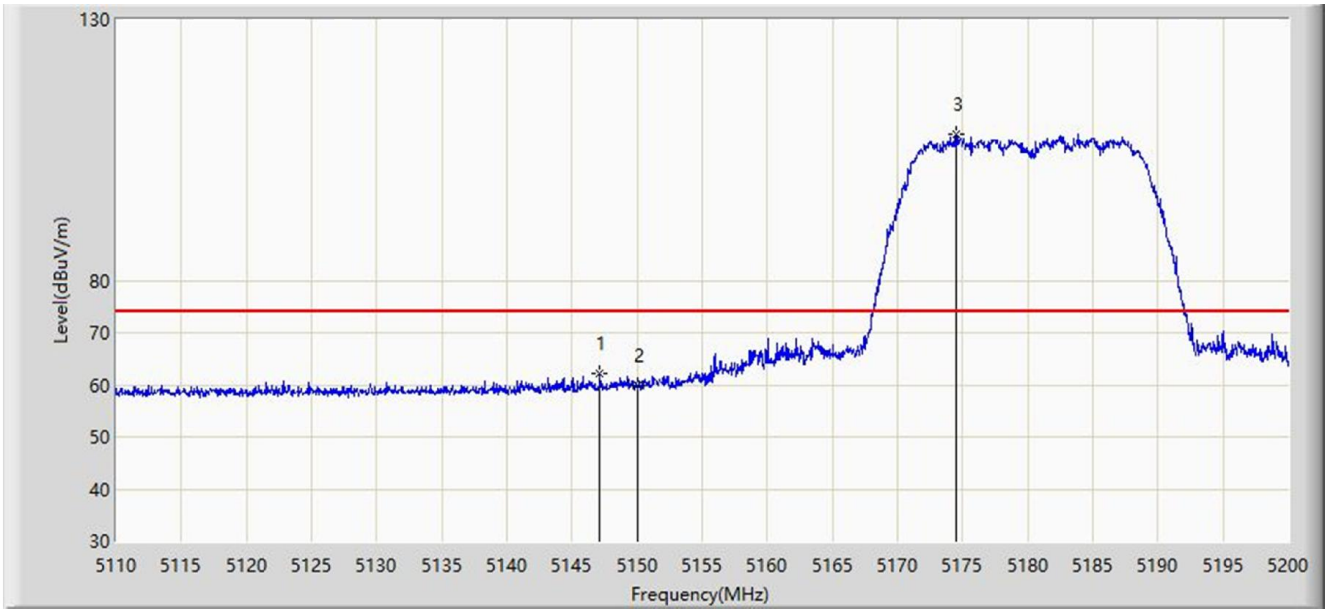


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5780.513	110.726	105.478	N/A	N/A	5.247	PK
2			5850.000	67.650	62.136	-54.550	122.200	5.514	PK
3			5855.000	65.402	59.869	-45.398	110.800	5.533	PK
4			5875.000	61.933	56.323	-43.267	105.200	5.610	PK
5			5925.000	58.200	52.398	-10.000	68.200	5.802	PK
6		*	5974.462	60.918	54.926	-7.282	68.200	5.992	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: AC1	Time: 2019/05/13 - 19:03
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

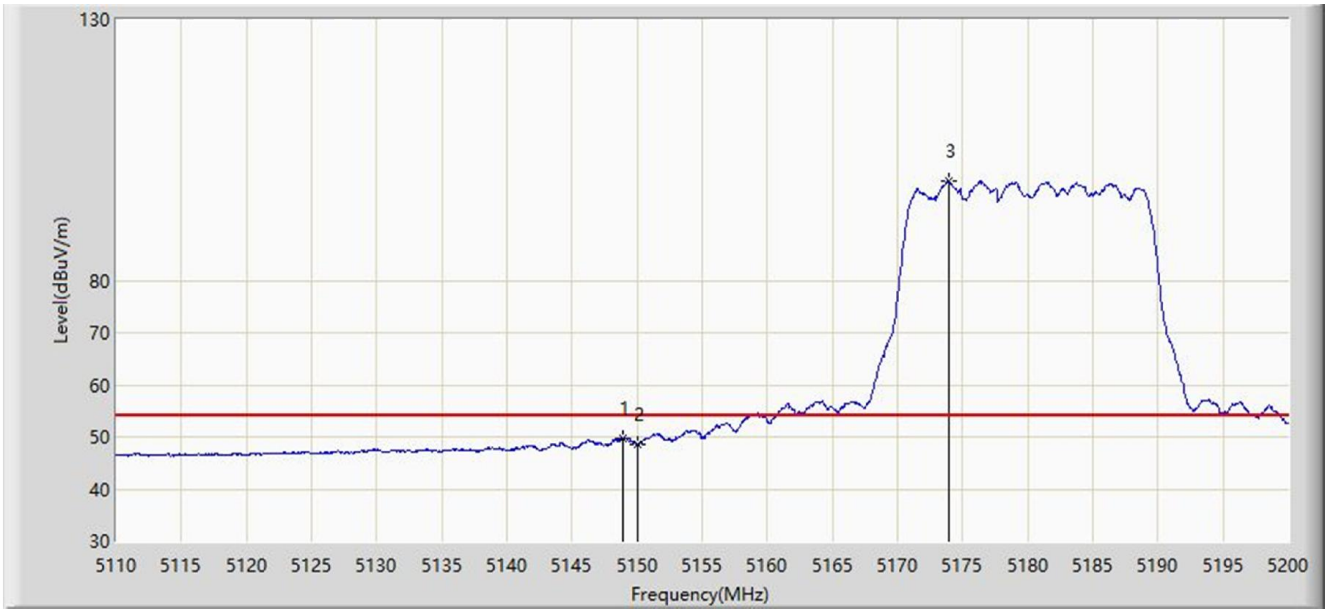


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5147.125	62.055	58.182	-11.945	74.000	3.873	PK
2			5150.000	59.904	56.028	-14.096	74.000	3.876	PK
3		*	5174.530	108.072	104.175	N/A	N/A	3.897	PK

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

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

Site: AC1	Time: 2019/05/13 - 19:23
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

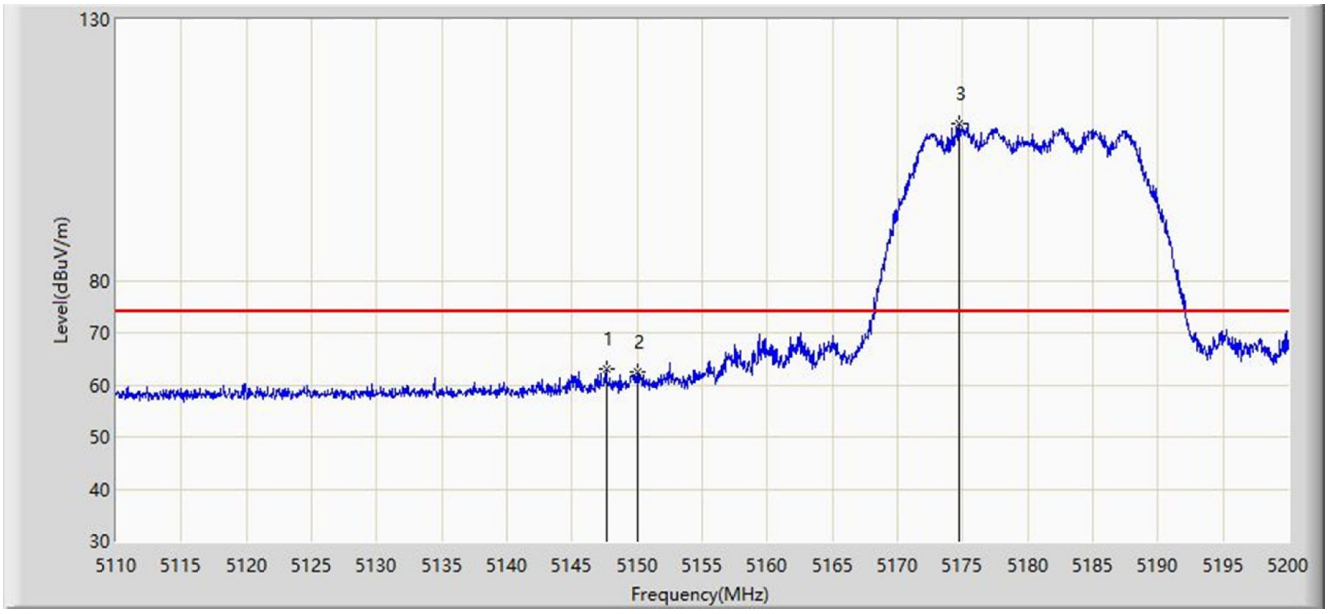


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5148.925	49.758	45.883	-4.242	54.000	3.875	AV
2			5150.000	48.602	44.726	-5.398	54.000	3.876	AV
3		*	5173.900	98.866	94.970	N/A	N/A	3.896	AV

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

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

Site: AC1	Time: 2019/05/13 - 19:06
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

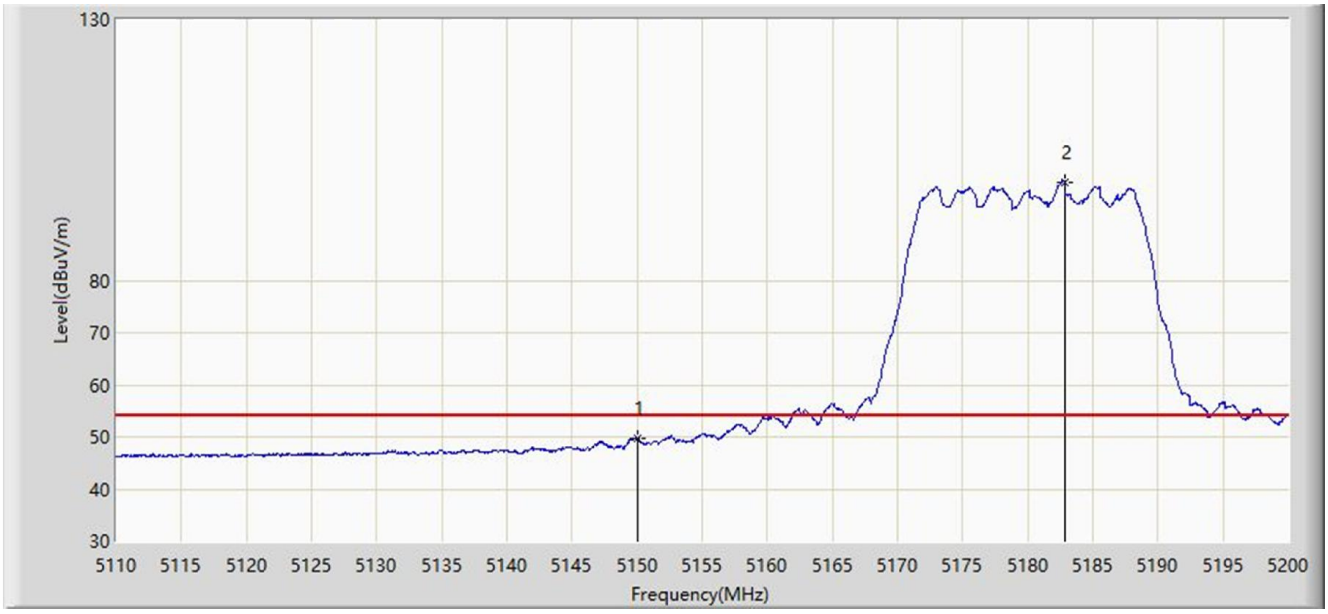


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5147.665	63.167	59.293	-10.833	74.000	3.874	PK
2			5150.000	62.364	58.488	-11.636	74.000	3.876	PK
3		*	5174.755	110.033	106.136	N/A	N/A	3.897	PK

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

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

Site: AC1	Time: 2019/05/13 - 19:25
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT20 at Channel 5180MHz	

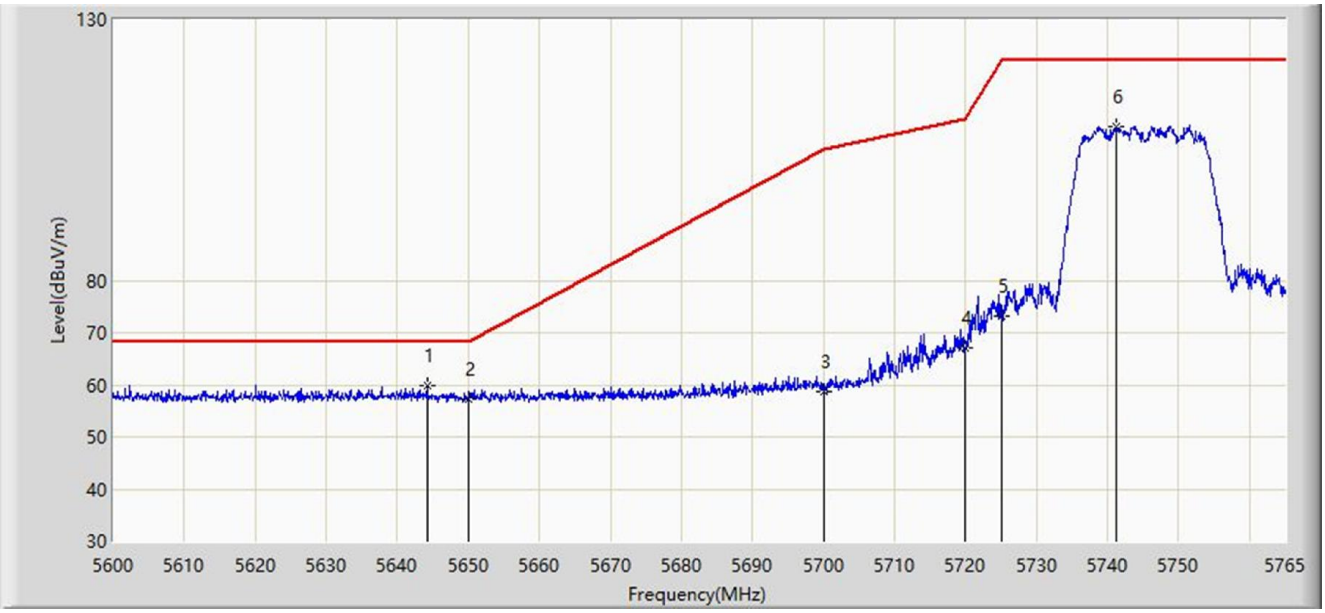


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	49.802	45.926	-4.198	54.000	3.876	AV
2		*	5182.855	98.829	94.925	N/A	N/A	3.904	AV

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

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

Site: AC1	Time: 2019/05/13 - 19:07
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT20 at Channel 5745MHz	

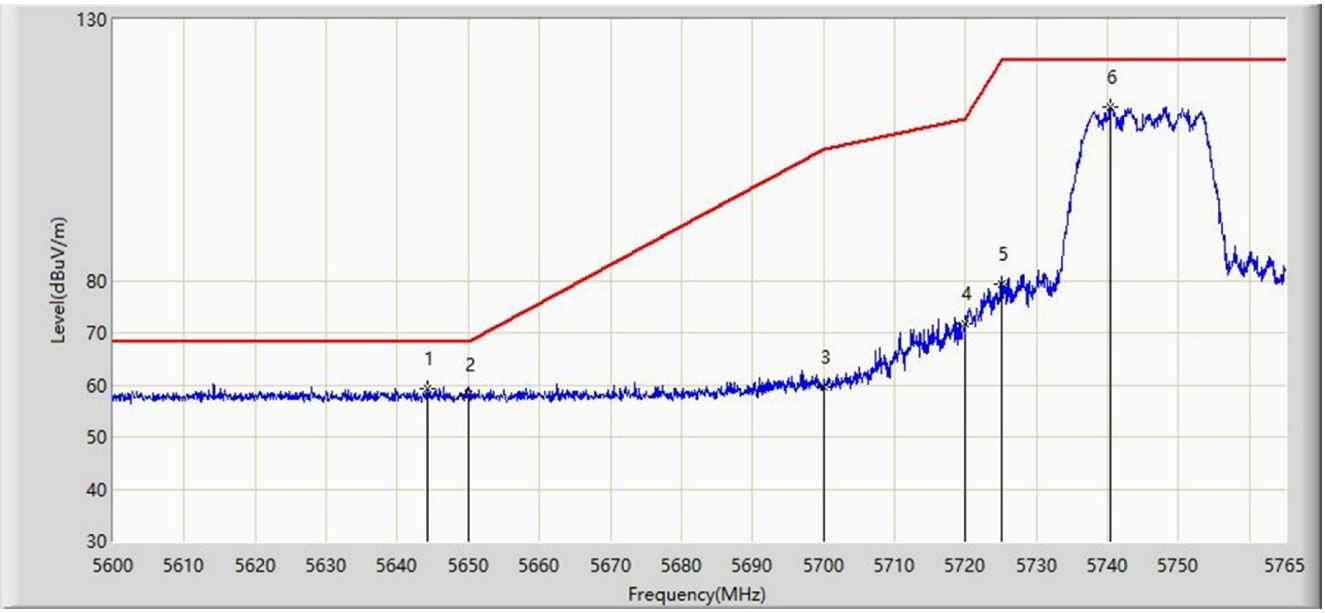


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5644.220	59.834	55.110	-8.366	68.200	4.725	PK
2			5650.000	57.244	52.498	-10.956	68.200	4.746	PK
3			5700.000	58.782	53.844	-46.418	105.200	4.938	PK
4			5720.000	67.236	62.221	-43.564	110.800	5.015	PK
5			5725.000	73.310	68.276	-48.890	122.200	5.034	PK
6			5741.240	109.560	104.464	N/A	N/A	5.096	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: AC1	Time: 2019/05/13 - 19:09
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT20 at Channel 5745MHz	

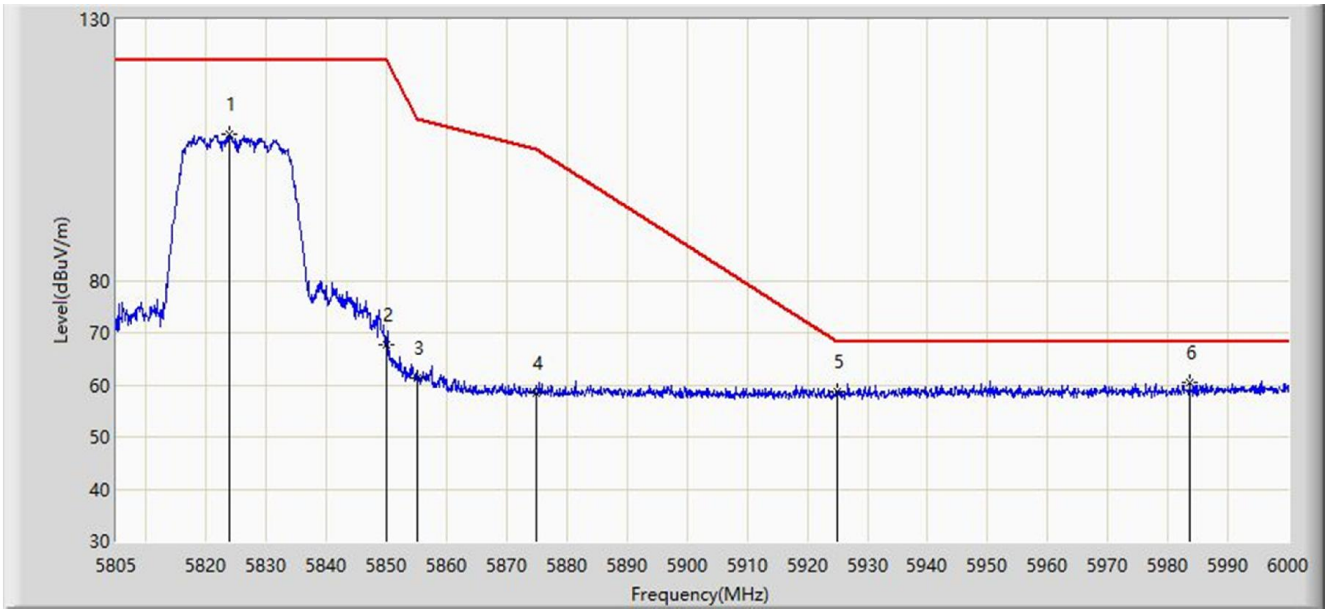


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5644.220	59.307	54.583	-8.893	68.200	4.725	PK
2			5650.000	58.211	53.465	-9.989	68.200	4.746	PK
3			5700.000	59.632	54.694	-45.568	105.200	4.938	PK
4			5720.000	71.841	66.826	-38.959	110.800	5.015	PK
5			5725.000	79.194	74.160	-43.006	122.200	5.034	PK
6			5740.415	113.185	108.092	N/A	N/A	5.093	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: AC1	Time: 2019/05/13 - 19:10
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT20 at Channel 5825MHz	

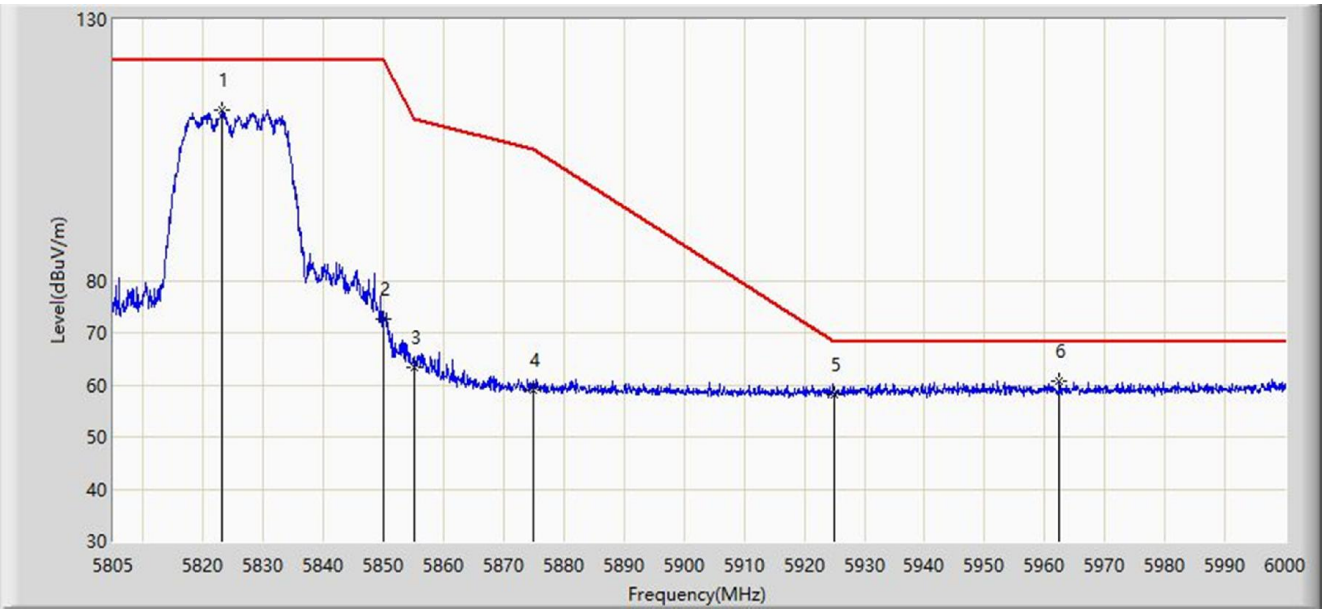


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5823.915	107.967	102.553	N/A	N/A	5.414	PK
2			5850.000	67.805	62.291	-54.395	122.200	5.514	PK
3			5855.000	61.412	55.879	-49.388	110.800	5.533	PK
4			5875.000	58.470	52.860	-46.730	105.200	5.610	PK
5			5925.000	58.555	52.753	-9.645	68.200	5.802	PK
6		*	5983.620	60.486	54.459	-7.714	68.200	6.027	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: AC1	Time: 2019/05/13 - 19:20
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT20 at Channel 5825MHz	

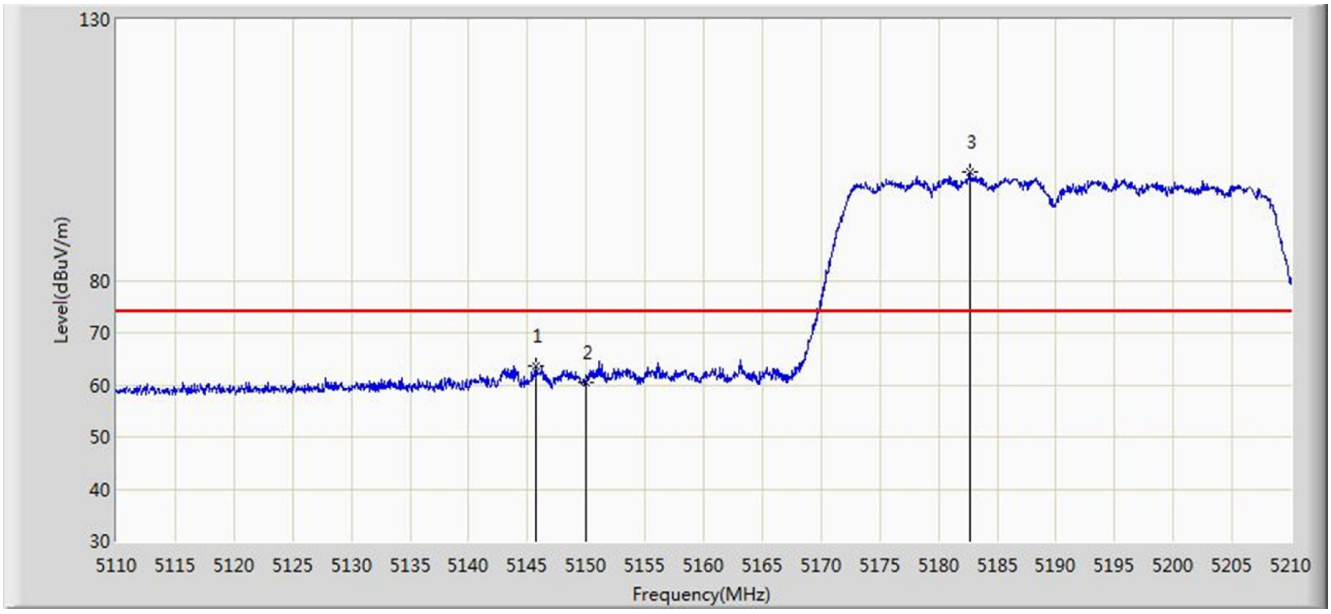


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5823.038	112.489	107.078	N/A	N/A	5.411	PK
2			5850.000	72.684	67.170	-49.516	122.200	5.514	PK
3			5855.000	63.467	57.934	-47.333	110.800	5.533	PK
4			5875.000	59.120	53.510	-46.080	105.200	5.610	PK
5			5925.000	58.207	52.405	-9.993	68.200	5.802	PK
6		*	5962.462	60.656	54.710	-7.544	68.200	5.946	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: AC1	Time: 2019/05/28 - 15:39
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT40 at Channel 5190MHz	

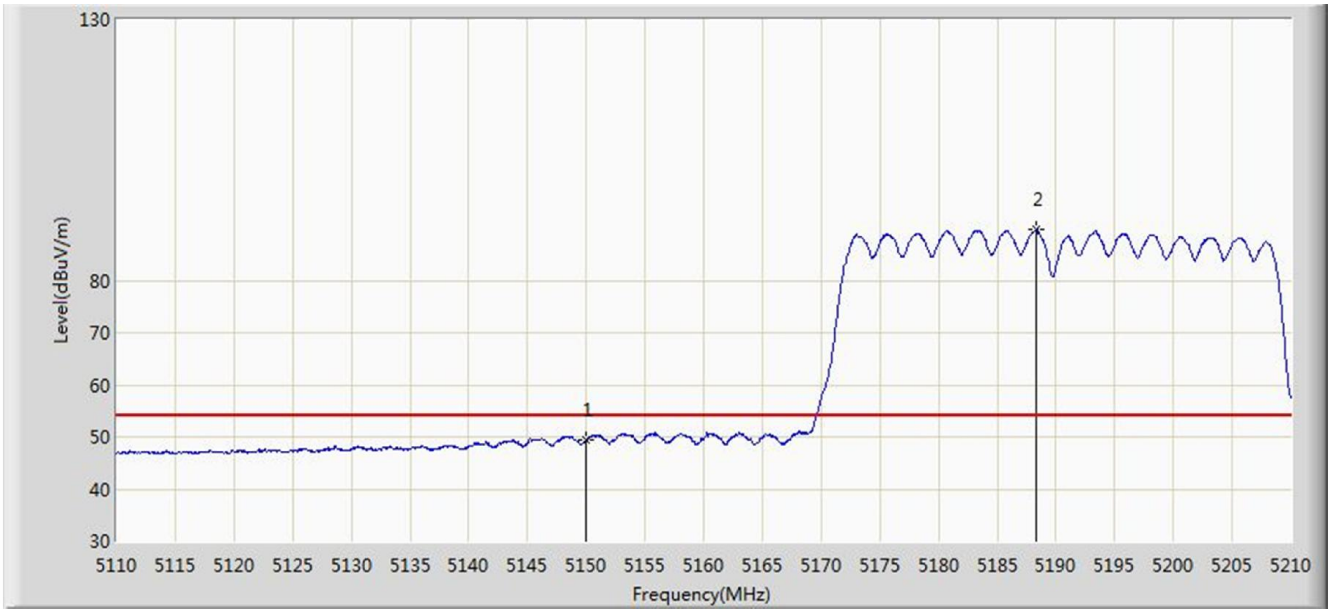


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5145.750	63.634	57.209	-10.366	74.000	6.425	PK
2			5150.000	60.571	54.174	-13.429	74.000	6.398	PK
3		*	5182.650	100.735	94.152	N/A	N/A	6.582	PK

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

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

Site: AC1	Time: 2019/05/28 - 15:44
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT40 at Channel 5190MHz	

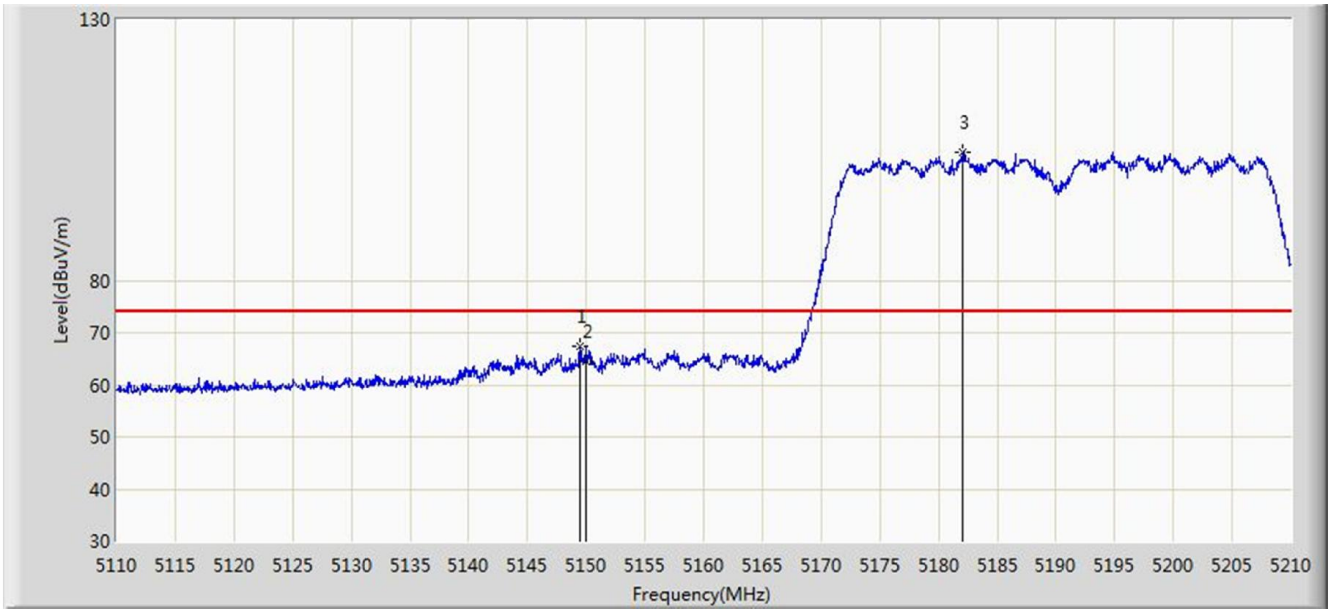


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	49.421	43.024	-4.579	54.000	6.398	AV
2		*	5188.350	89.607	83.081	N/A	N/A	6.526	AV

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

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

Site: AC1	Time: 2019/05/28 - 15:47
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT40 at Channel 5190MHz	

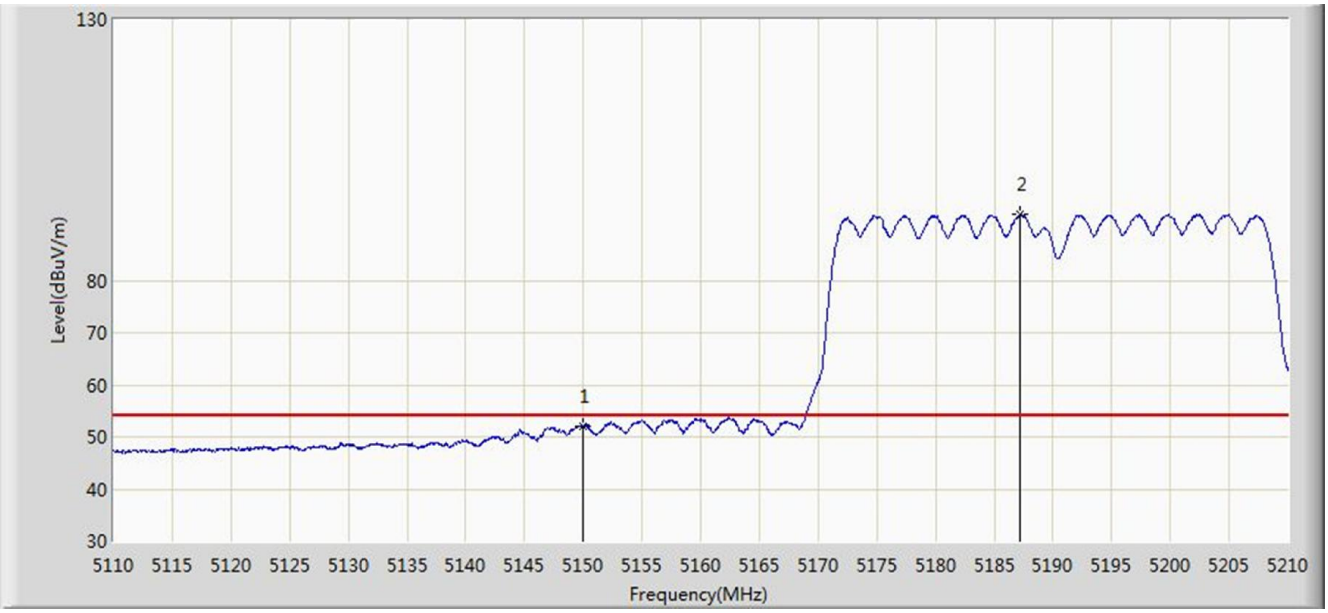


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5149.500	67.254	60.858	-6.746	74.000	6.396	PK
2			5150.000	64.511	58.114	-9.489	74.000	6.398	PK
3		*	5182.000	104.499	97.910	N/A	N/A	6.589	PK

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

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

Site: AC1	Time: 2019/05/28 - 15:50
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT40 at Channel 5190MHz	

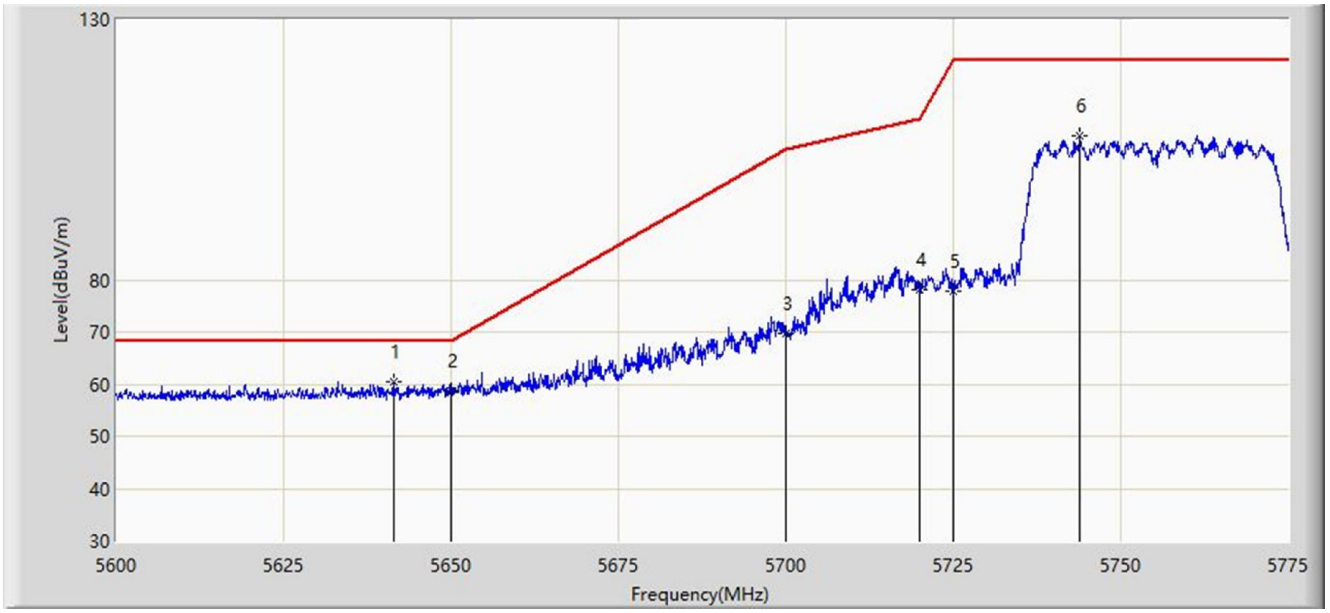


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5150.000	52.006	45.609	-1.994	54.000	6.398	AV
2		*	5187.250	92.592	86.055	N/A	N/A	6.537	AV

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

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

Site: AC1	Time: 2019/05/13 - 19:57
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT40 at Channel 5755MHz	

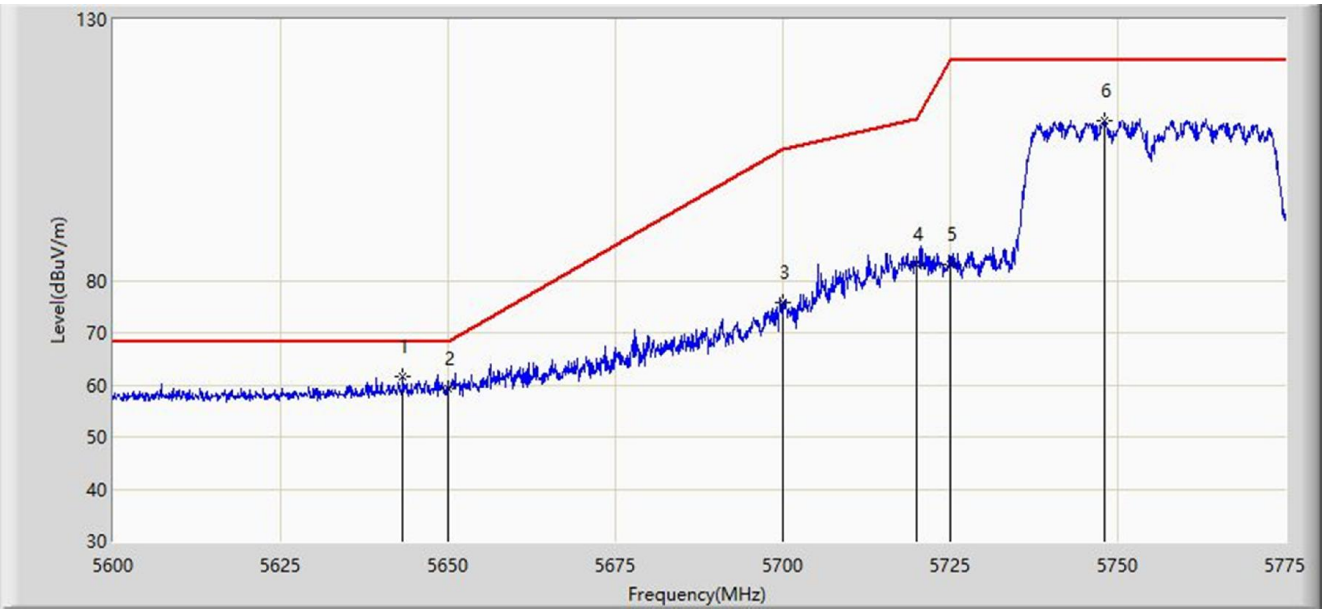


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5641.388	60.369	55.656	-7.831	68.200	4.713	PK
2			5650.000	58.827	54.081	-9.373	68.200	4.746	PK
3			5700.000	69.698	64.760	-35.502	105.200	4.938	PK
4			5720.000	78.099	73.084	-32.701	110.800	5.015	PK
5			5725.000	77.811	72.777	-44.389	122.200	5.034	PK
6			5743.937	107.645	102.539	N/A	N/A	5.107	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: AC1	Time: 2019/05/13 - 19:59
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT40 at Channel 5755MHz	

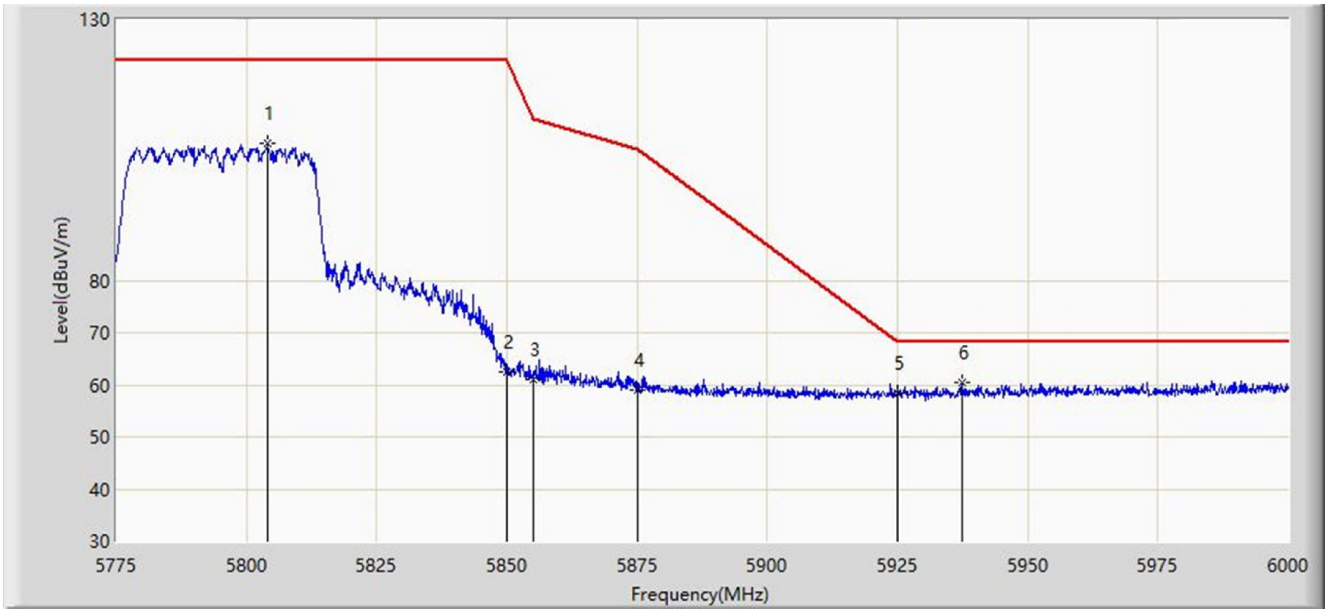


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5643.225	61.490	56.770	-6.710	68.200	4.721	PK
2			5650.000	59.349	54.603	-8.851	68.200	4.746	PK
3			5700.000	75.706	70.768	-29.494	105.200	4.938	PK
4			5720.000	83.020	78.005	-27.780	110.800	5.015	PK
5			5725.000	83.177	78.143	-39.023	122.200	5.034	PK
6			5747.962	110.624	105.502	N/A	N/A	5.122	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: AC1	Time: 2019/05/13 - 20:01
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT40 at Channel 5795MHz	

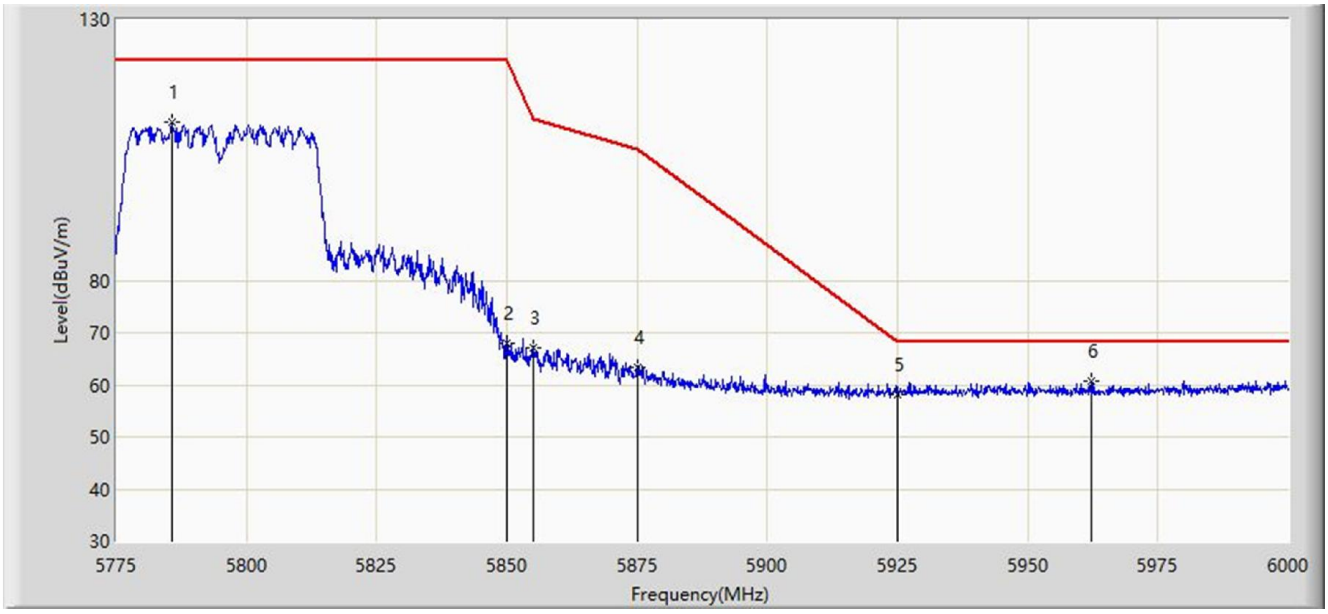


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5804.138	106.163	100.825	N/A	N/A	5.338	PK
2			5850.000	62.392	56.878	-59.808	122.200	5.514	PK
3			5855.000	61.001	55.468	-49.799	110.800	5.533	PK
4			5875.000	59.016	53.406	-46.184	105.200	5.610	PK
5			5925.000	58.489	52.687	-9.711	68.200	5.802	PK
6		*	5937.337	60.571	54.721	-7.629	68.200	5.850	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: AC1	Time: 2019/05/13 - 20:03
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT40 at Channel 5795MHz	

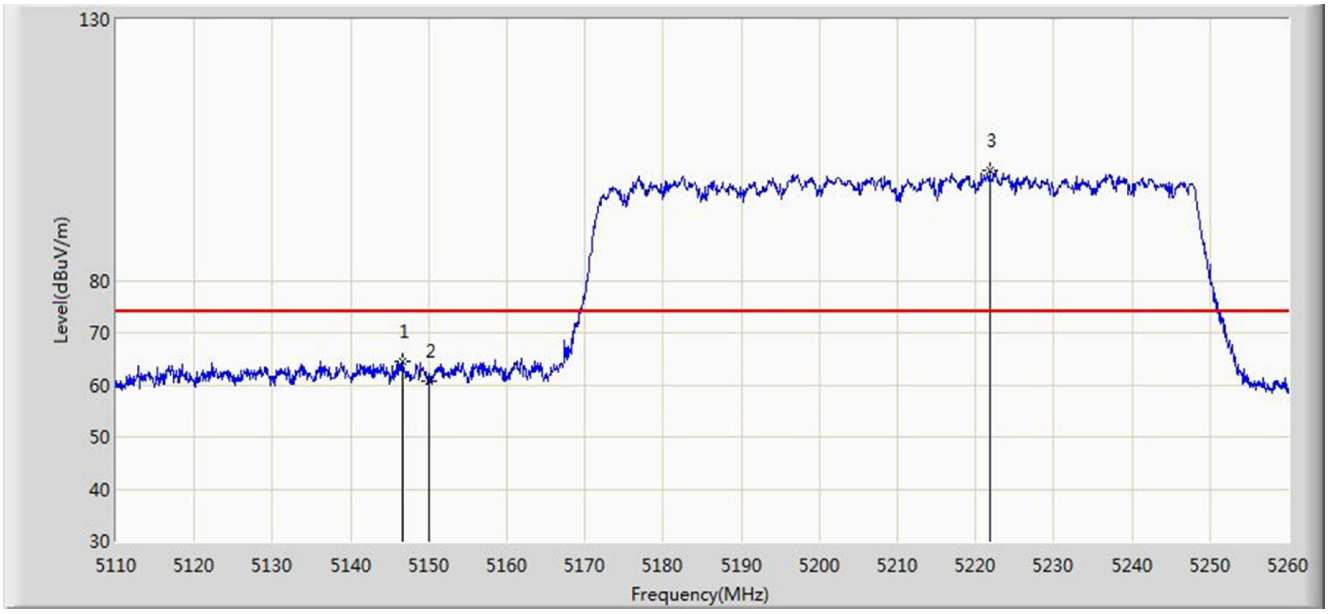


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5785.575	110.340	105.073	N/A	N/A	5.267	PK
2			5850.000	67.936	62.422	-54.264	122.200	5.514	PK
3			5855.000	67.125	61.592	-43.675	110.800	5.533	PK
4			5875.000	63.466	57.856	-41.734	105.200	5.610	PK
5			5925.000	58.197	52.395	-10.003	68.200	5.802	PK
6		*	5962.087	60.750	54.805	-7.450	68.200	5.945	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: AC1	Time: 2019/05/17 - 00:35
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT80 at Channel 5210MHz	

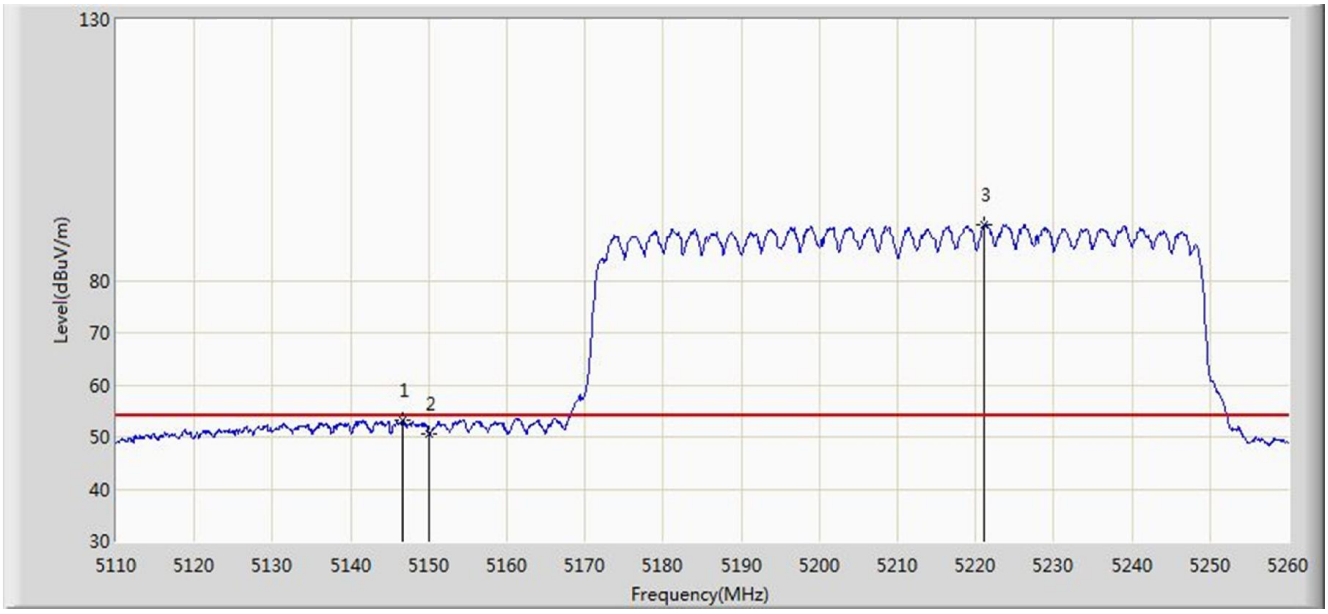


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5146.675	64.363	57.952	-9.637	74.000	6.411	PK
2			5150.000	60.639	54.242	-13.361	74.000	6.398	PK
3		*	5221.750	100.975	94.738	N/A	N/A	6.238	PK

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

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

Site: AC1	Time: 2019/05/17 - 00:36
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT80 at Channel 5210MHz	

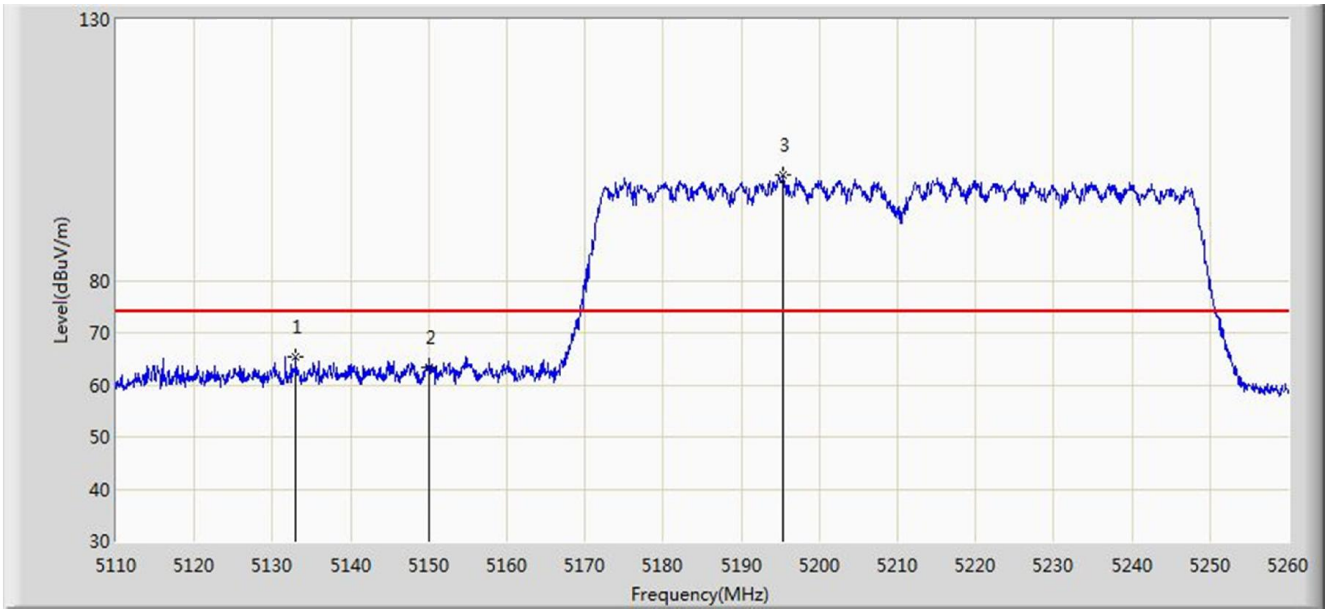


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5146.675	53.224	46.813	-0.776	54.000	6.411	AV
2			5150.000	50.687	44.290	-3.313	54.000	6.398	AV
3		*	5221.075	90.588	84.357	N/A	N/A	6.231	AV

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

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

Site: AC1	Time: 2019/05/17 - 00:34
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT80 at Channel 5210MHz	

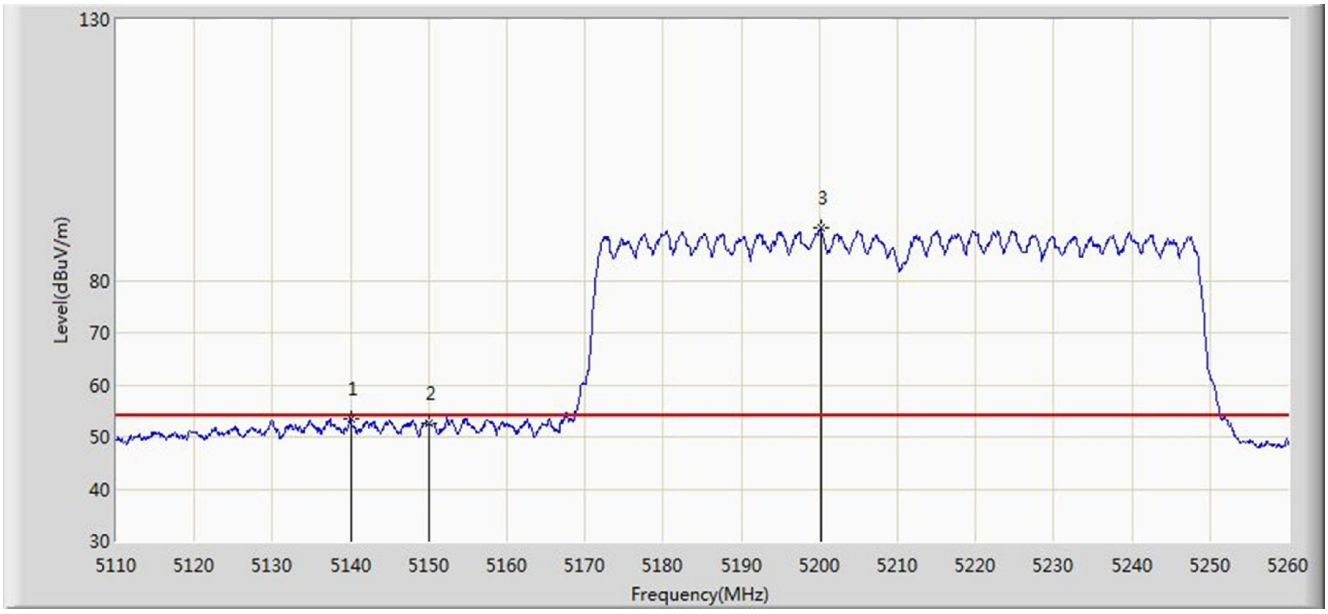


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5133.025	65.386	58.772	-8.614	74.000	6.614	PK
2			5150.000	63.261	56.864	-10.739	74.000	6.398	PK
3		*	5195.350	100.263	93.805	N/A	N/A	6.457	PK

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

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

Site: AC1	Time: 2019/05/17 - 00:33
Limit: FCC_Part15.209_RSE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT80 at Channel 5210MHz	

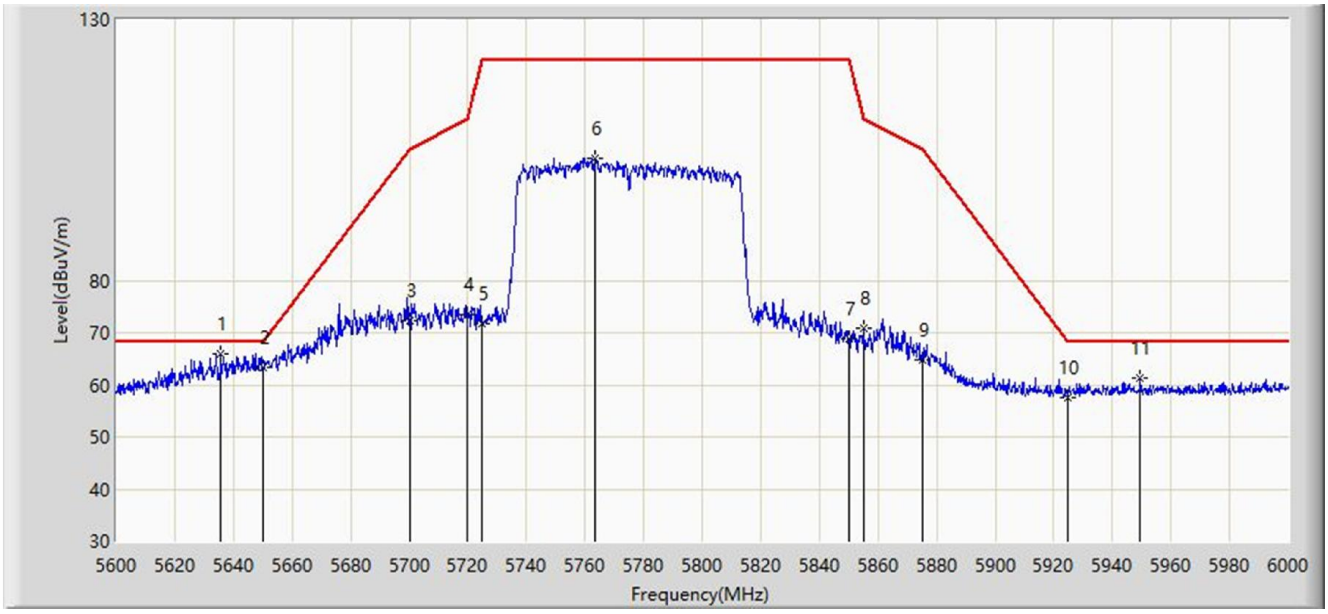


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			5140.000	53.465	46.954	-0.535	54.000	6.511	AV
2			5150.000	52.554	46.157	-1.446	54.000	6.398	AV
3		*	5200.150	90.021	83.615	N/A	N/A	6.406	AV

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

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

Site: AC1	Time: 2019/05/13 - 20:32
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Horizontal
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT80 at Channel 5210MHz	

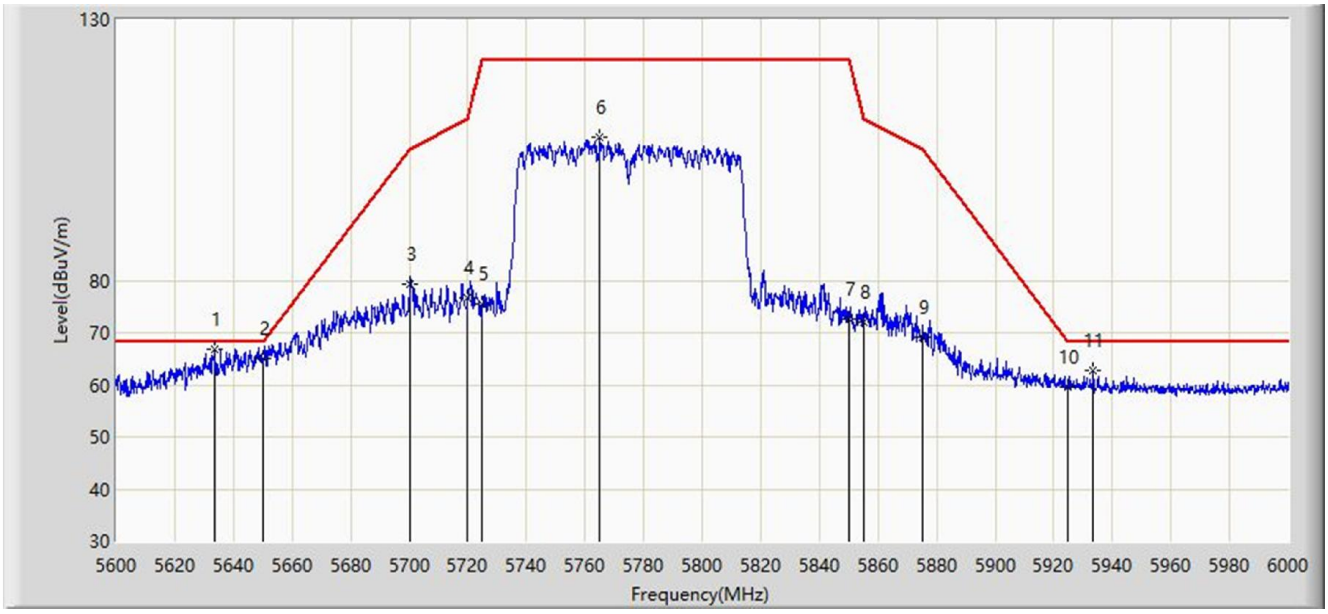


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5635.800	65.965	61.273	-2.235	68.200	4.692	PK
2			5650.000	63.475	58.729	-4.725	68.200	4.746	PK
3			5700.000	72.419	67.481	-32.781	105.200	4.938	PK
4			5720.000	73.448	68.433	-37.352	110.800	5.015	PK
5			5725.000	71.784	66.750	-50.416	122.200	5.034	PK
6			5763.200	103.399	98.219	N/A	N/A	5.181	PK
7			5850.000	68.737	63.223	-53.463	122.200	5.514	PK
8			5855.000	70.784	65.251	-40.016	110.800	5.533	PK
9			5875.000	64.652	59.042	-40.548	105.200	5.610	PK
10			5925.000	57.667	51.865	-10.533	68.200	5.802	PK
11			5949.400	61.234	55.338	-6.966	68.200	5.896	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: AC1	Time: 2019/05/13 - 20:28
Limit: Limit: FCC_Part15.407_RE(3m)	Engineer: Peter Xu
Probe: BBHA 9120D_1-18GHz	Polarity: Vertical
EUT: Streaming Media Player	Power: By USB
Note: Transmit by 802.11ac-VHT80 at Channel 5210MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	5633.600	66.802	62.119	-1.398	68.200	4.684	PK
2			5650.000	65.000	60.254	-3.200	68.200	4.746	PK
3			5700.000	79.221	74.283	-25.979	105.200	4.938	PK
4			5720.000	76.802	71.787	-33.998	110.800	5.015	PK
5			5725.000	75.447	70.413	-46.753	122.200	5.034	PK
6			5765.000	107.262	102.075	N/A	N/A	5.187	PK
7			5850.000	72.606	67.092	-49.594	122.200	5.514	PK
8			5855.000	71.929	66.396	-38.871	110.800	5.533	PK
9			5875.000	69.243	63.633	-35.957	105.200	5.610	PK
10			5925.000	59.654	53.852	-8.546	68.200	5.802	PK
11			5933.400	62.692	56.858	-5.508	68.200	5.834	PK

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

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

7.10. AC Conducted Emissions Measurement

7.10.1.Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dBμV)	AV (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

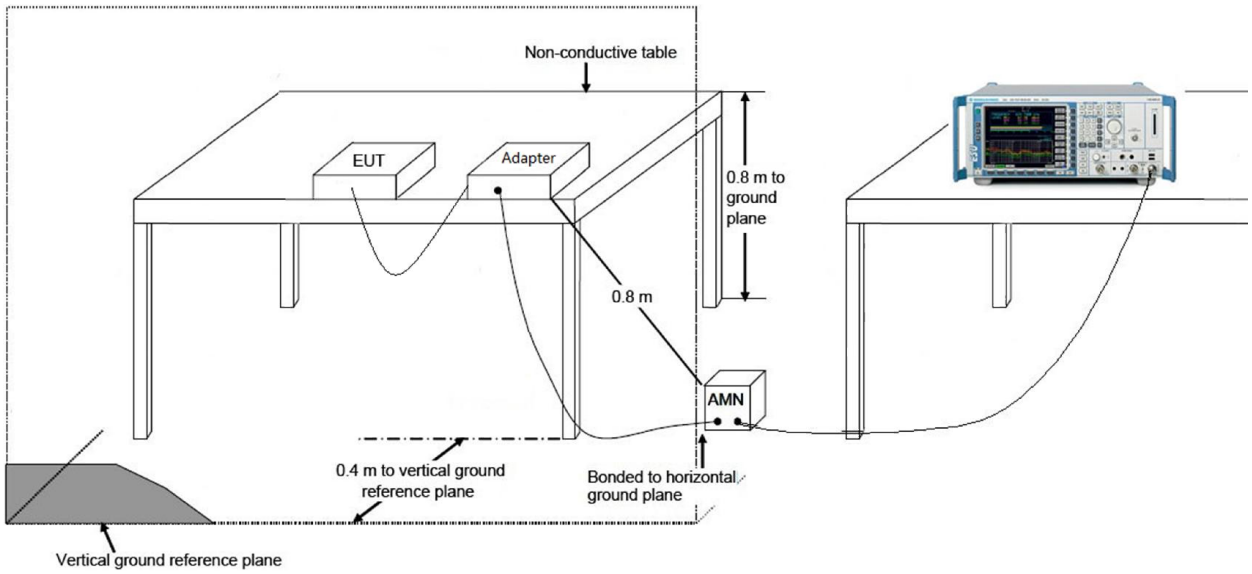
7.10.2.Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements.The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

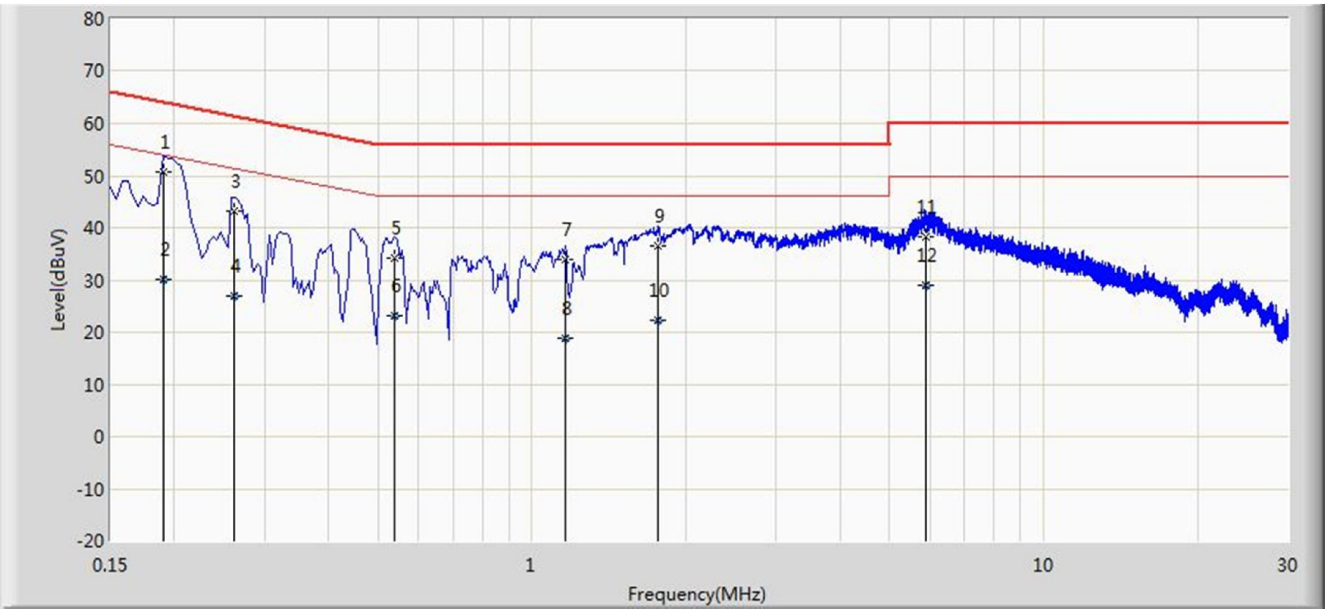
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

7.10.3.Test Setup



7.10.4.Test Result

Site: SR2	Time: 2019/06/11 - 20:06
Limit: FCC_Part15.207_CE_AC Power	Engineer: Kevin Ker
Probe: ENV216 (Filter On)	Polarity: Line
EUT: Streaming Media Player	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	

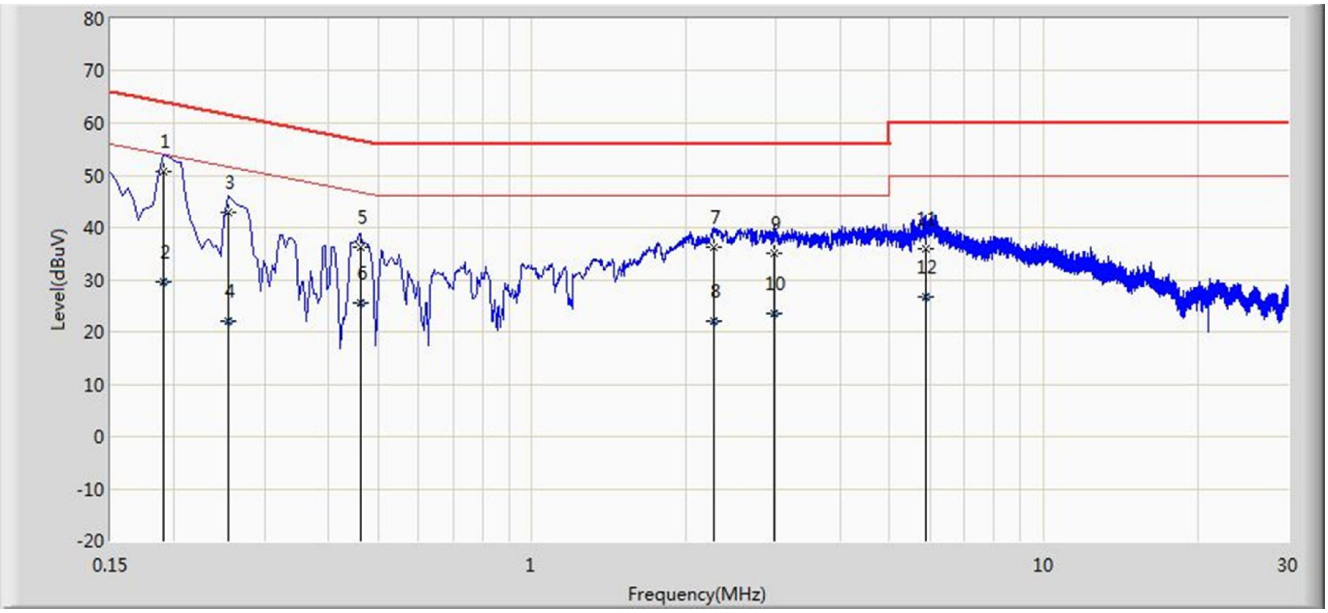


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.190	50.679	40.628	-13.358	64.037	10.051	QP
2			0.190	30.199	20.148	-23.838	54.037	10.051	AV
3			0.262	43.309	33.348	-18.058	61.368	9.961	QP
4			0.262	26.963	17.001	-24.405	51.368	9.961	AV
5			0.538	34.267	24.174	-21.733	56.000	10.094	QP
6			0.538	23.175	13.081	-22.825	46.000	10.094	AV
7			1.162	33.777	23.891	-22.223	56.000	9.886	QP
8			1.162	18.849	8.963	-27.151	46.000	9.886	AV
9			1.766	36.411	26.540	-19.589	56.000	9.871	QP
10			1.766	22.255	12.384	-23.745	46.000	9.871	AV
11			5.890	38.160	28.384	-21.840	60.000	9.776	QP
12			5.890	29.049	19.273	-20.951	50.000	9.776	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SR2	Time: 2019/06/11 - 20:10
Limit: FCC_Part15.207_CE_AC Power	Engineer: Kevin Ker
Probe: ENV216 (Filter On)	Polarity: Neutral
EUT: Streaming Media Player	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11a at Channel 5180MHz	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1		*	0.190	50.659	40.633	-13.378	64.037	10.026	QP
2			0.190	29.566	19.540	-24.471	54.037	10.026	AV
3			0.254	42.756	32.828	-18.869	61.625	9.928	QP
4			0.254	21.999	12.071	-29.626	51.625	9.928	AV
5			0.462	36.197	26.098	-20.460	56.657	10.098	QP
6			0.462	25.582	15.483	-21.075	46.657	10.098	AV
7			2.274	36.169	26.323	-19.831	56.000	9.846	QP
8			2.274	21.997	12.151	-24.003	46.000	9.846	AV
9			2.982	35.032	25.216	-20.968	56.000	9.816	QP
10			2.982	23.443	13.627	-22.557	46.000	9.816	AV
11			5.878	35.985	26.234	-24.015	60.000	9.751	QP
12			5.878	26.690	16.940	-23.310	50.000	9.751	AV

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

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Streaming Media Player** is in compliance with Part 15E of the FCC Rules.

The End

Appendix A - Test Setup Photograph

Refer to “1905TW0109-UT” file.

Appendix B - EUT Photograph

Refer to “1905TW0109-UE” file.