Channel 11 (2462MHz)
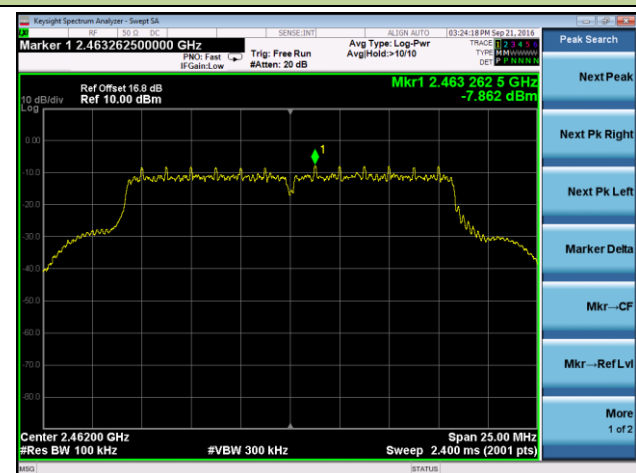
100kHz PSD reference Level

High Band Edge

Spurious Emission 30MHz ~ 25GHz

802.11n-HT40 Out-of-Band Emissions

Channel 03 (2422MHz)

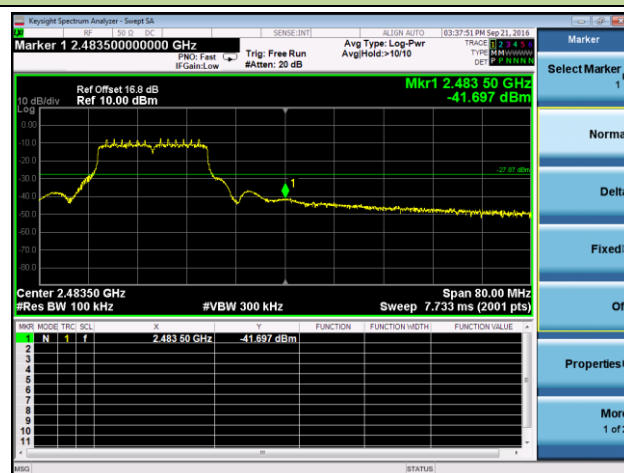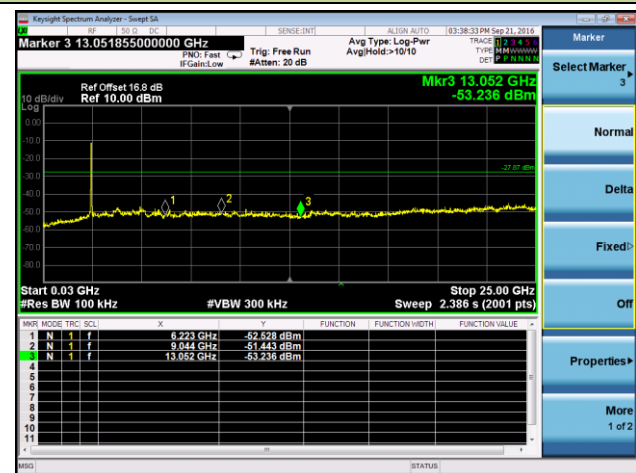| 100kHz PSD reference Level	Low Band Edge
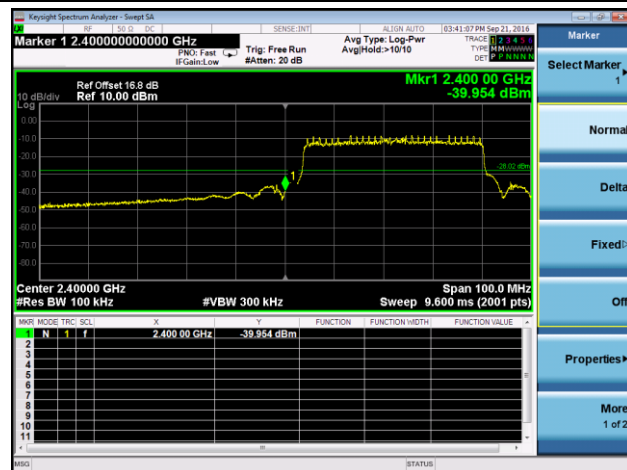
Spurious Emission 30MHz ~ 25GHz	
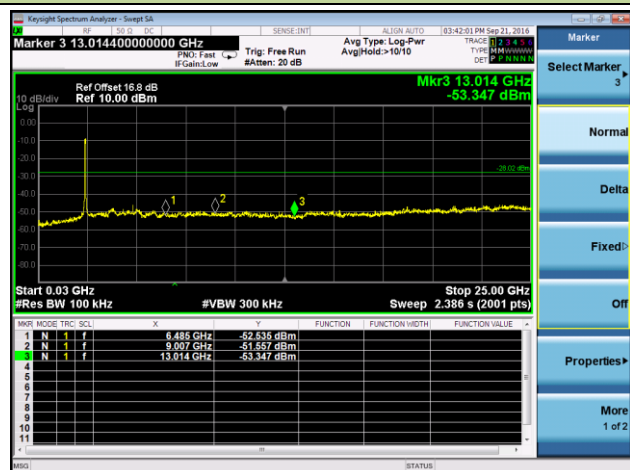
Channel 06 (2437MHz)

100kHz PSD reference Level	Spurious Emission 30MHz ~ 25GHz

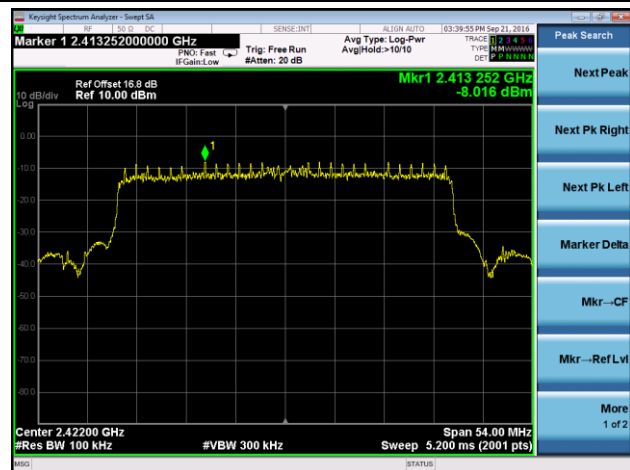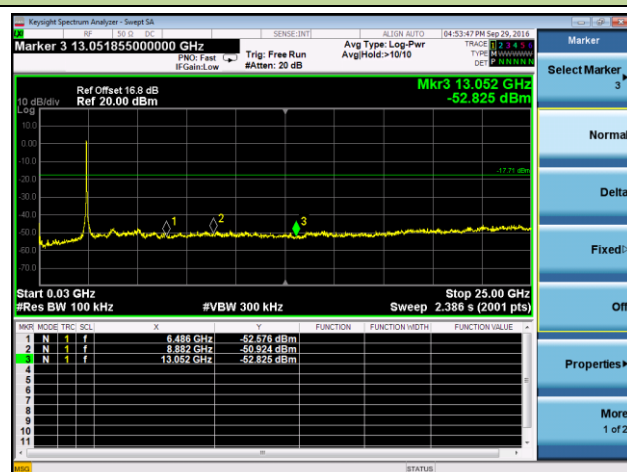## Channel 09 (2452MHz)

100kHz PSD reference Level	High Band Edge
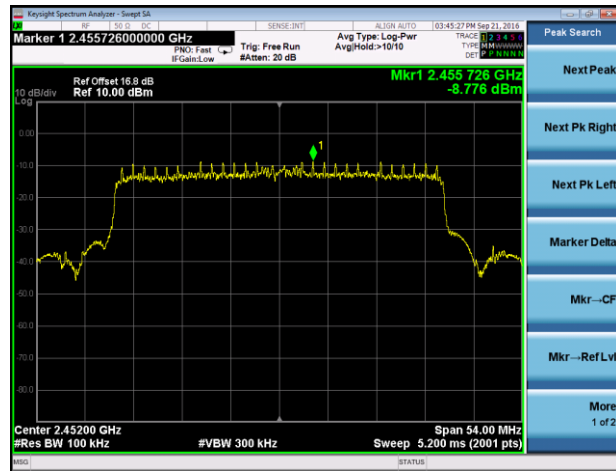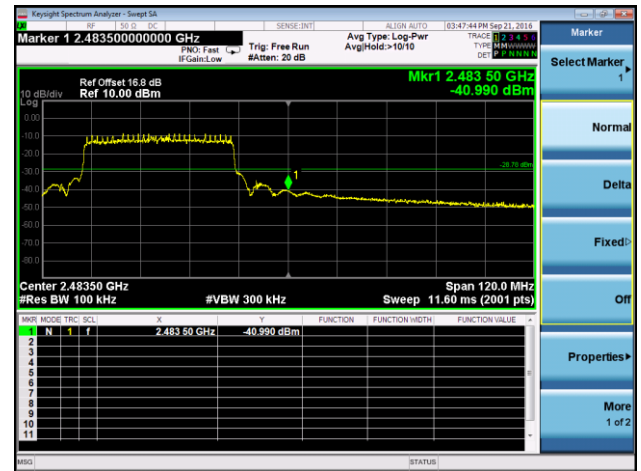
Spurious Emission 30MHz ~ 25GHz	
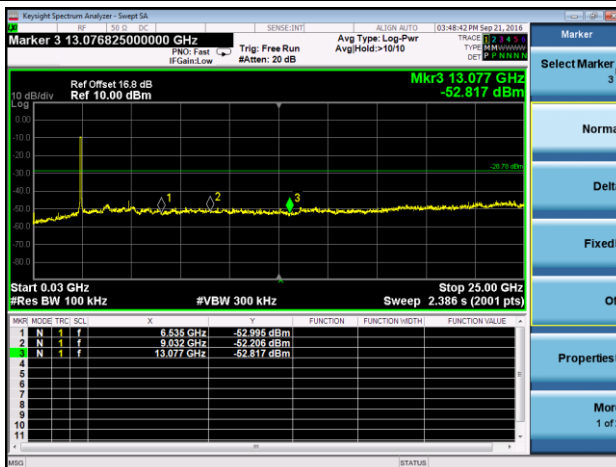
7.6. Radiated Spurious Emission Measurement

7.6.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR 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

7.6.2. Test Procedure Used

KDB 558074 D01v03r05 - Section 12.2.3 (quasi-peak measurements)

KDB 558074 D01v03r05 - Section 12.2.4 (peak power measurements)

KDB 558074 D01v03r05 - Section 12.2.5 (average power measurements)

7.6.3. Test Setting

Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 D01v03r05

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = as specified in Table 1

3. VBW = 3MHz

4. Detector = peak

5. Sweep time = auto couple

6. Trace mode = max hold

7. Trace was allowed to stabilize

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

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest

2. RBW = 1MHz

3. VBW ≥ 1/T

4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB domain). Some instruments require linear display mode in order to accomplish this. Others have a setting for Average-VBW Type, which can be set to "Voltage" regardless of the display mode

5. Detector = Peak

6. Sweep time = auto

7. Trace mode = max hold

8. Allow max hold to run for at least 50 times (1/duty cycle) traces

7.6.4. Test Setup

9kHz ~ 30MHz Test Setup:
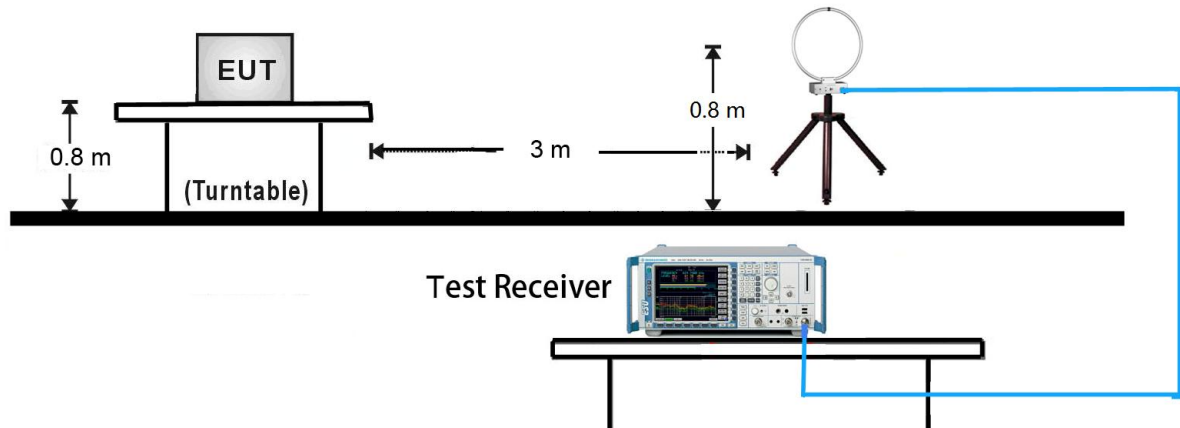
30MHz ~ 1GHz Test Setup:
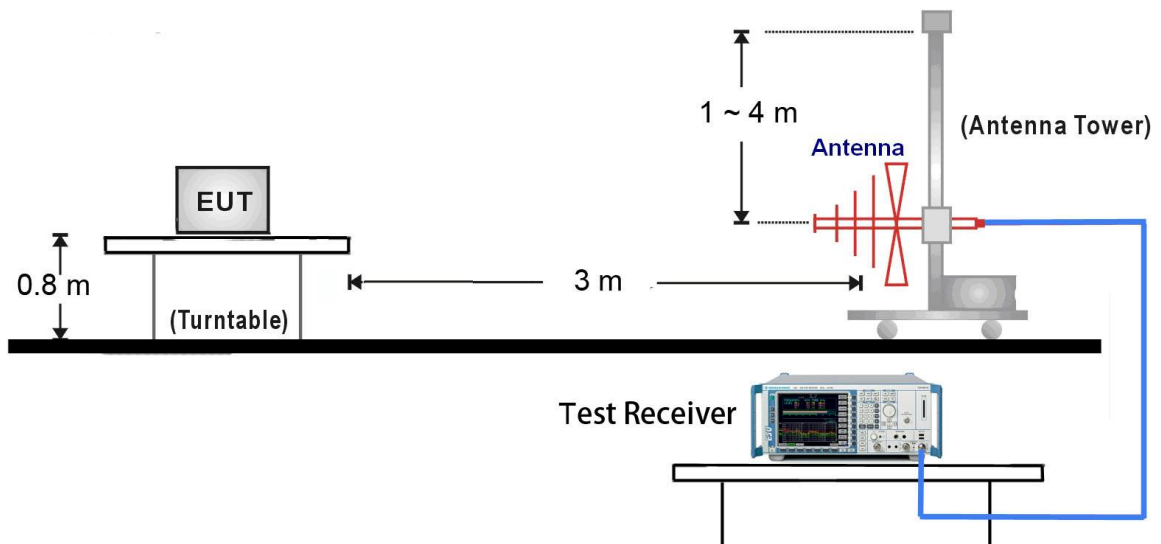
1GHz ~ 18GHz Test Setup:
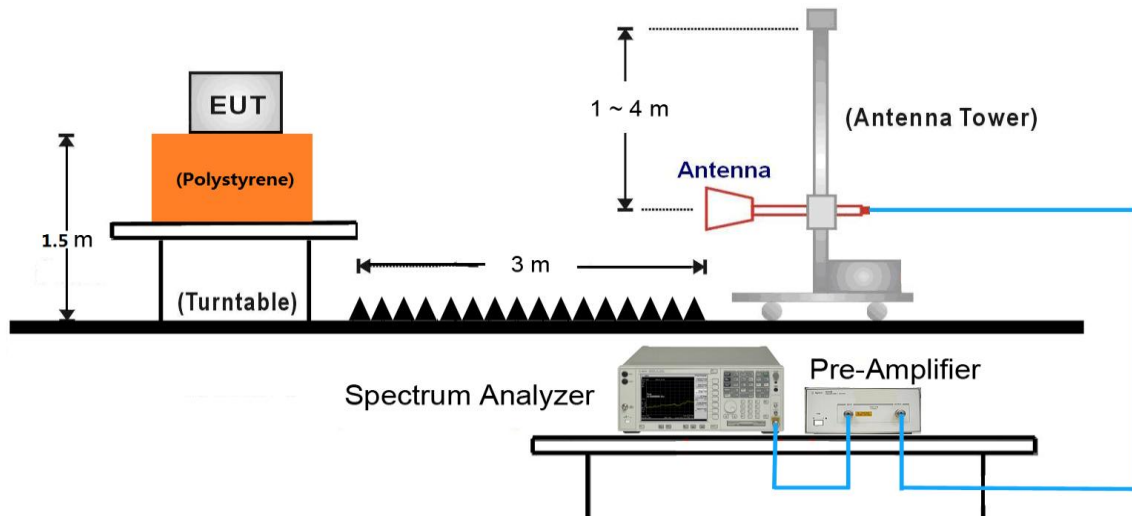
18GHz ~25GHz Test Setup:
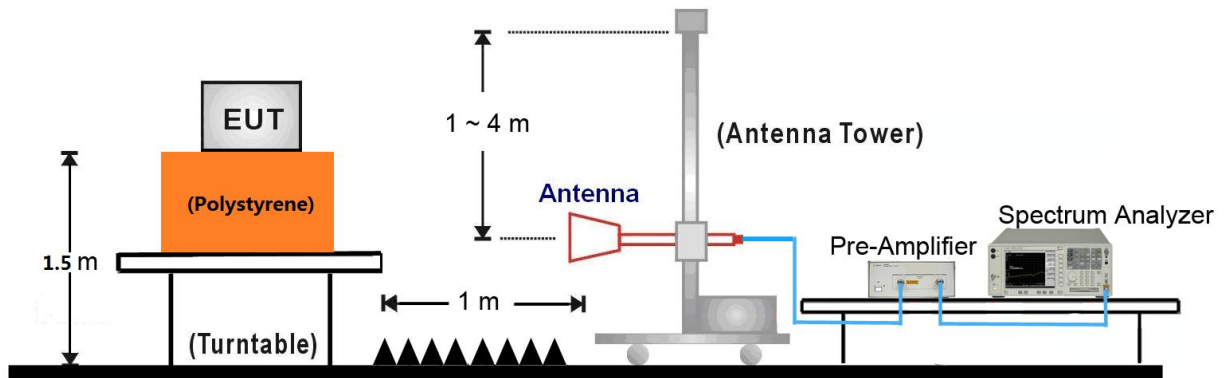
7.6.5. Test Result

Test Mode:	802.11b	Test Site:	AC2
Test Channel:	01	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. 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
	4925.0	35.2	2.2	37.4	74.0	-36.6	Peak	Horizontal
	7560.0	32.8	10.9	43.7	74.0	-30.3	Peak	Horizontal
*	8612.0	31.5	10.9	42.4	83.3	-40.9	Peak	Horizontal
*	9785.0	32.5	12.8	45.3	83.3	-38.0	Peak	Horizontal
	4825.0	41.8	2.3	44.1	74.0	-29.9	Peak	Vertical
	7341.0	34.5	10.7	45.2	74.0	-28.8	Peak	Vertical
*	8746.0	31.6	11.6	43.2	83.3	-40.1	Peak	Vertical
*	9985.0	31.8	13.0	44.8	83.3	-38.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (103.3dBµV/m) or 15.209 which is higher.

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

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

Test Mode:	802.11b	Test Site:	AC2
Test Channel:	06	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. 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
	4876.0	47.1	2.3	49.4	74.0	-24.6	Peak	Horizontal
	7562.0	32.8	10.8	43.6	74.0	-30.4	Peak	Horizontal
*	8756.0	31.4	11.5	42.9	91.7	-48.8	Peak	Horizontal
*	9600.0	32.6	12.4	45.0	91.7	-46.7	Peak	Horizontal
	4874.0	50.2	2.3	52.5	54.0	-1.5	Average	Vertical
	4876.0	55.2	2.3	57.5	74.0	-16.5	Peak	Vertical
	7432.0	33.0	10.8	43.8	74.0	-30.2	Peak	Vertical
*	7932.0	33.5	10.6	44.1	91.7	-47.6	Peak	Vertical
*	8755.0	31.5	11.5	43.0	91.7	-48.7	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (111.7dBμV/m) or 15.209 which is higher.

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

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

Test Mode:	802.11b	Test Site:	AC2
Test Channel:	11	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. 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
	4825.0	34.1	2.3	36.4	74.0	-37.6	Peak	Horizontal
	7463.0	32.9	10.9	43.8	74.0	-30.2	Peak	Horizontal
*	8782.0	31.6	11.6	43.2	83.9	-40.7	Peak	Horizontal
*	9826.0	32.3	12.8	45.1	83.9	-38.8	Peak	Horizontal
	4927.0	41.3	2.2	43.5	74.0	-30.5	Peak	Vertical
	7365.0	32.1	10.6	42.7	74.0	-31.3	Peak	Vertical
*	8785.0	31.9	11.6	43.5	83.9	-40.4	Peak	Vertical
*	9724.0	32.6	12.4	45.0	83.9	-38.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (103.9dBμV/m) or 15.209 which is higher.

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

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

Test Mode:	802.11g	Test Site:	AC2
Test Channel:	01	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. 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
	4826.0	36.4	2.3	38.7	74.0	-35.3	Peak	Horizontal
	7463.0	33.2	10.9	44.1	74.0	-29.9	Peak	Horizontal
*	8562.0	32.8	10.7	43.5	89.6	-46.1	Peak	Horizontal
*	9765.0	32.8	12.7	45.5	89.6	-44.1	Peak	Horizontal
	4825.0	39.7	2.3	42.0	74.0	-32.0	Peak	Vertical
	7328.0	32.9	10.6	43.5	74.0	-30.5	Peak	Vertical
*	8642.0	32.7	11.1	43.8	89.6	-45.8	Peak	Vertical
*	9826.0	31.5	12.8	44.3	89.6	-45.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (109.6dBµV/m) or 15.209 which is higher.

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

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

Test Mode:	802.11g	Test Site:	AC2
Test Channel:	06	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. 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
	4876.0	45.6	2.3	47.9	74.0	-26.1	Peak	Horizontal
	7520.0	33.8	10.9	44.7	74.0	-29.3	Peak	Horizontal
*	8632.0	32.6	11.1	43.7	88.3	-44.6	Peak	Horizontal
*	9752.0	32.9	12.6	45.5	88.3	-42.8	Peak	Horizontal
	4874.0	38.8	2.3	41.1	54.0	-12.9	Average	Vertical
	4876.0	54.7	2.3	57.0	74.0	-17.0	Peak	Vertical
	7520.0	33.1	10.9	44.0	74.0	-30.0	Peak	Vertical
*	8832.0	31.9	11.5	43.4	88.3	-44.9	Peak	Vertical
*	9746.5	36.4	12.6	49.0	88.3	-39.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (108.3dBµV/m) or 15.209 which is higher.

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

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

Test Mode:	802.11g	Test Site:	AC2
Test Channel:	11	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. 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
	4927.0	37.4	2.2	39.6	74.0	-34.4	Peak	Horizontal
	7563.0	32.6	10.8	43.4	74.0	-30.6	Peak	Horizontal
*	8660.0	31.6	11.0	42.6	81.1	-38.5	Peak	Horizontal
*	9780.0	33.1	12.7	45.8	81.1	-35.3	Peak	Horizontal
	4927.0	38.3	2.2	40.5	74.0	-33.5	Peak	Vertical
	7463.0	32.6	10.9	43.5	74.0	-30.5	Peak	Vertical
*	8642.0	32.0	11.1	43.1	81.1	-38.0	Peak	Vertical
*	9852.0	32.1	12.9	45.0	81.1	-36.1	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.1dBµV/m) or 15.209 which is higher.

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

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

Test Mode:	802.11HT-20	Test Site:	AC2
Test Channel:	01	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. 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
	4826.0	36.6	2.3	38.9	74.0	-35.1	Peak	Horizontal
	7560.0	32.9	10.9	43.8	74.0	-30.2	Peak	Horizontal
*	8750.0	30.9	11.6	42.5	81.3	-38.8	Peak	Horizontal
*	9930.0	32.1	12.9	45.0	81.3	-36.3	Peak	Horizontal
	4825.0	39.1	2.3	41.4	74.0	-32.6	Peak	Vertical
	7560.0	32.8	10.9	43.7	74.0	-30.3	Peak	Vertical
*	8750.0	31.7	11.6	43.3	81.3	-38.0	Peak	Vertical
*	9786.0	32.6	12.8	45.4	81.3	-35.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.3dBµV/m) or 15.209 which is higher.

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

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

Test Mode:	802.11HT-20	Test Site:	AC2
Test Channel:	06	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. 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
	4876.0	44.5	2.3	46.8	74.0	-27.2	Peak	Horizontal
	7495.0	33.0	11.0	44.0	74.0	-30.0	Peak	Horizontal
*	8752.0	31.2	11.5	42.7	88.1	-45.4	Peak	Horizontal
*	9746.5	35.1	12.6	47.7	88.1	-40.4	Peak	Horizontal
	4867.5	56.0	2.2	58.2	74.0	-15.8	Average	Vertical
	4874.0	37.4	2.3	39.7	54.0	-14.3	Peak	Vertical
*	7520.0	33.0	10.9	43.9	74.0	-30.1	Peak	Vertical
*	8785.0	31.1	11.6	42.7	88.1	-45.4	Peak	Vertical
	9746.5	39.0	12.6	51.6	88.1	-36.5	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (108.1dBμV/m) or 15.209 which is higher.

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

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

Test Mode:	802.11HT-20	Test Site:	AC2
Test Channel:	11	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. 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
	4865.0	34.5	2.2	36.7	74.0	-37.3	Peak	Horizontal
	7562.0	32.5	10.8	43.3	74.0	-30.7	Peak	Horizontal
*	8954.0	32.2	11.5	43.7	82.3	-38.6	Peak	Horizontal
*	9577.0	32.1	12.3	44.4	82.3	-37.9	Peak	Horizontal
	4927.0	38.2	2.2	40.4	74.0	-33.6	Peak	Vertical
*	7522.0	33.1	10.9	44.0	74.0	-30.0	Peak	Vertical
*	8625.0	32.5	11.0	43.5	82.3	-38.8	Peak	Vertical
	9845.0	33.3	13.0	46.3	82.3	-36.0	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (102.3dBμV/m) or 15.209 which is higher.

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

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

Test Mode:	802.11n-HT40	Test Site:	AC2
Test Channel:	03	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. 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
	4952.0	35.2	2.2	37.4	74.0	-36.6	Peak	Horizontal
	7325.0	32.1	10.5	42.6	74.0	-31.4	Peak	Horizontal
*	8852.0	31.2	11.6	42.8	83.9	-41.1	Peak	Horizontal
*	9622.0	32.6	12.3	44.9	83.9	-39.0	Peak	Horizontal
	4842.0	41.4	2.5	43.9	74.0	-30.1	Peak	Vertical
*	7456.0	33.3	10.9	44.2	74.0	-29.8	Peak	Vertical
*	8593.0	32.4	10.9	43.3	83.9	-40.6	Peak	Vertical
	9632.0	32.6	12.4	45.0	83.9	-38.9	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (103.9dBµV/m) or 15.209 which is higher.

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

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

Test Mode:	802.11n-HT40	Test Site:	AC2
Test Channel:	06	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. 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
	4876.0	48.1	2.3	50.4	74.0	-23.6	Peak	Horizontal
	7362.0	32.4	10.6	43.0	74.0	-31.0	Peak	Horizontal
*	8953.0	31.5	11.5	43.0	88.7	-45.7	Peak	Horizontal
*	9746.5	39.1	12.6	51.7	88.7	-37.0	Peak	Horizontal
	4874.1	37.1	2.3	39.4	54.0	-14.6	Average	Vertical
	4876.0	56.8	2.3	59.1	74.0	-14.9	Peak	Vertical
*	7456.0	32.7	10.9	43.6	74.0	-30.4	Peak	Vertical
*	8652.0	32.0	11.0	43.0	88.7	-45.7	Peak	Vertical
	9746.5	37.9	12.6	50.5	88.7	-38.2	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (108.7dBµV/m) or 15.209 which is higher.

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

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

Test Mode:	802.11n-HT40	Test Site:	AC2
Test Channel:	09	Test Engineer:	Lewis Huang
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. **The worst case of Radiated Spurious Emission.** 3. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

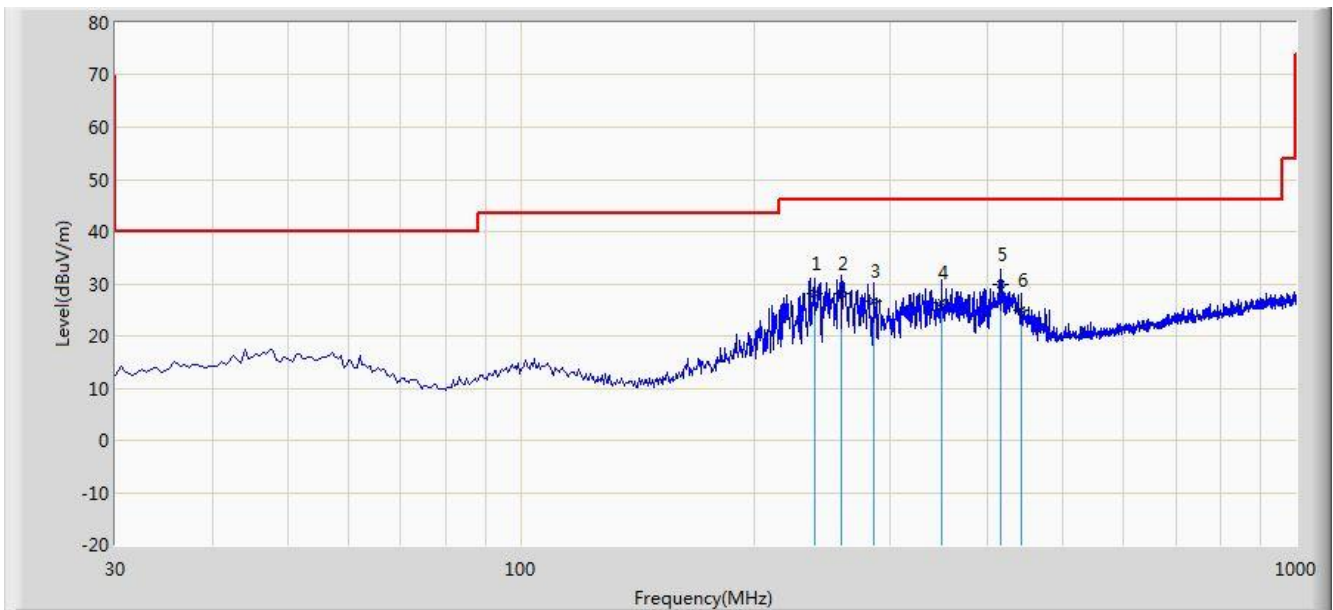| Mark	Frequency (MHz)	Reading Level (dBµV)	Factor (dB)	Measure Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector	Polarization
	4725.0	35.2	2.3	37.5	74.0	-36.5	Peak	Horizontal
	7450.0	32.7	10.9	43.6	74.0	-30.4	Peak	Horizontal
*	8952.0	31.8	11.5	43.3	82.7	-39.4	Peak	Horizontal
*	9562.0	31.8	12.4	44.2	82.7	-38.5	Peak	Horizontal
	4901.5	40.6	2.3	42.9	74.0	-31.1	Peak	Vertical
*	7620.0	32.9	10.5	43.4	74.0	-30.6	Peak	Vertical
*	8782.0	31.7	11.6	43.3	82.7	-39.4	Peak	Vertical
	9825.0	32.6	12.8	45.4	82.7	-37.3	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (102.7dBµV/m) or 15.209 which is higher.

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:

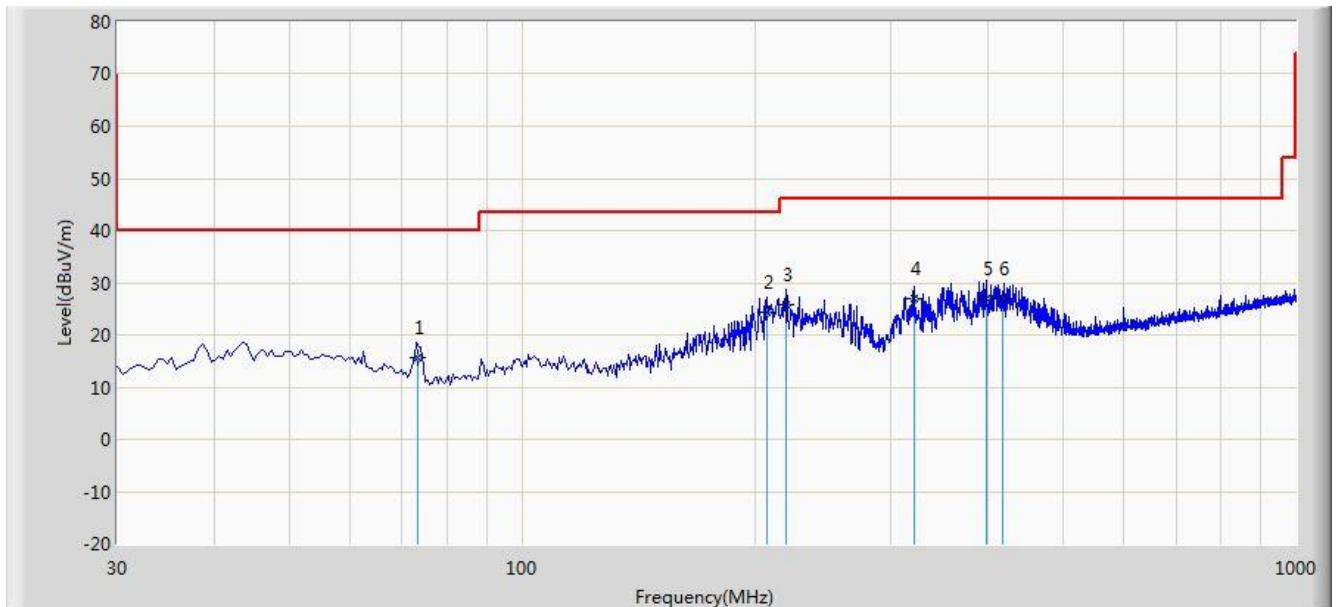| Site: AC2	Time: 2016/09/29 - 15:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang
Probe: VULB9162_0.03-8GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Worse Case Mode: 802.11g at Channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			239.224	28.236	14.841	-17.764	46.000	13.395	QP
2			258.670	28.138	14.267	-17.862	46.000	13.871	QP
3			285.663	26.611	12.323	-19.389	46.000	14.288	QP
4			349.661	26.380	10.526	-19.620	46.000	15.854	QP
5		*	416.775	29.841	12.842	-16.159	46.000	17.000	QP
6			441.825	25.059	7.736	-20.941	46.000	17.324	QP

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

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

| Site: AC2	Time: 2016/09/29 - 15:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Lewis Huang
Probe: VULB9162_0.03-8GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Worse Case Mode: 802.11g at Channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			73.226	15.663	5.517	-24.337	40.000	10.146	QP
2			207.001	24.349	11.949	-19.151	43.500	12.400	QP
3			219.726	25.712	13.057	-20.288	46.000	12.655	QP
4		*	321.112	26.969	11.849	-19.031	46.000	15.120	QP
5			398.002	26.826	10.102	-19.174	46.000	16.723	QP
6			418.556	26.941	9.922	-19.059	46.000	17.019	QP

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

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

| Site: AC2	Time: 2016/09/22 - 15:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: FMZB1519_0.009-30MHz	Polarity: Face On
EUT: WIFI Module	Power: By Computer

Note: There is the ambient noise within frequency range 9kHz~30MHz.
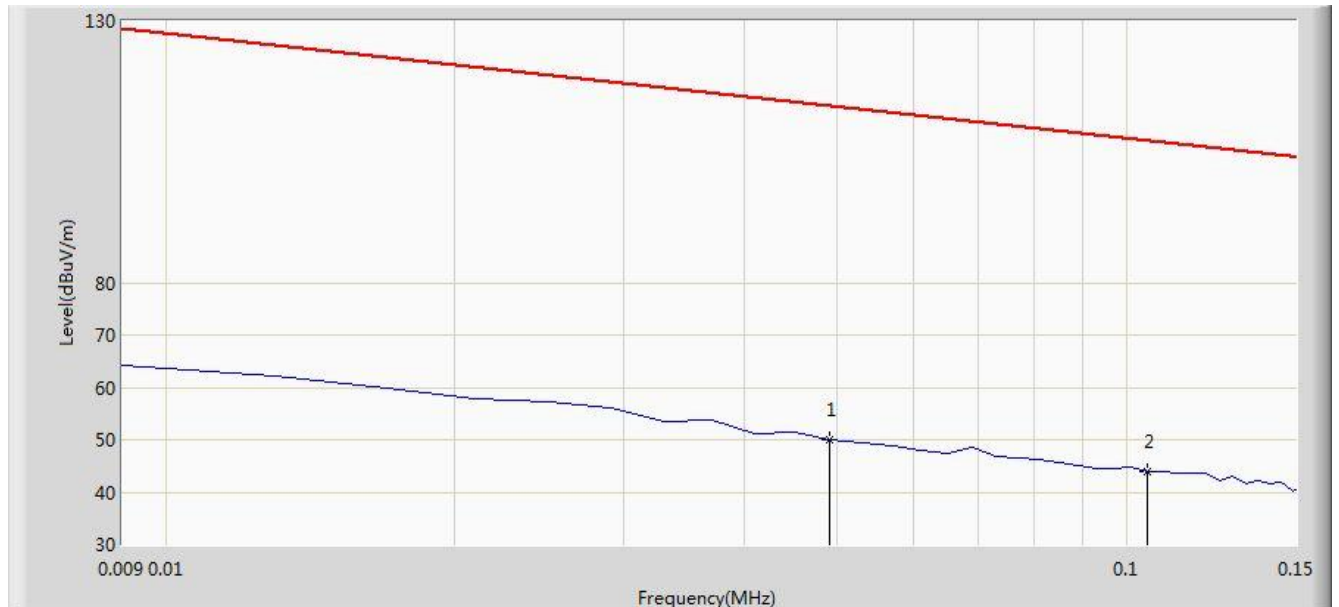
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			0.049	50.112	29.552	-63.688	113.800	20.560	AV
2		*	0.105	44.043	23.845	-63.137	107.180	20.198	QP

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

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

| Site: AC2	Time: 2016/09/22 - 15:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Roy Cheng
Probe: FMZB1519_0.009-30MHz	Polarity: Face On
EUT: WIFI Module	Power: By Computer
Note: There is the ambient noise within frequency range 9kHz~30MHz.	
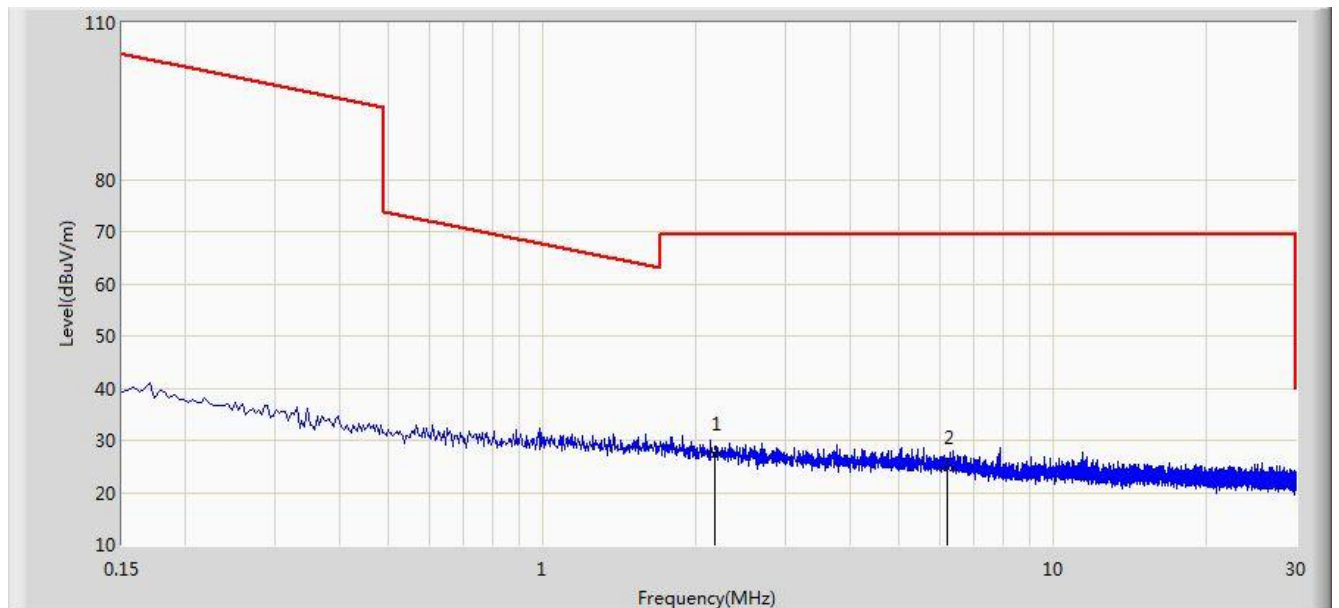
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2.175	27.371	6.960	-42.129	69.500	20.412	QP
2			6.216	24.786	4.701	-44.714	69.500	20.085	QP

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

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

Site: AC2	Time: 2016/09/22- 21:20
Limit: FCC_Part15.209_RE(1m)	Engineer: Roy Cheng
Probe: BBHA9170_18-40GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer

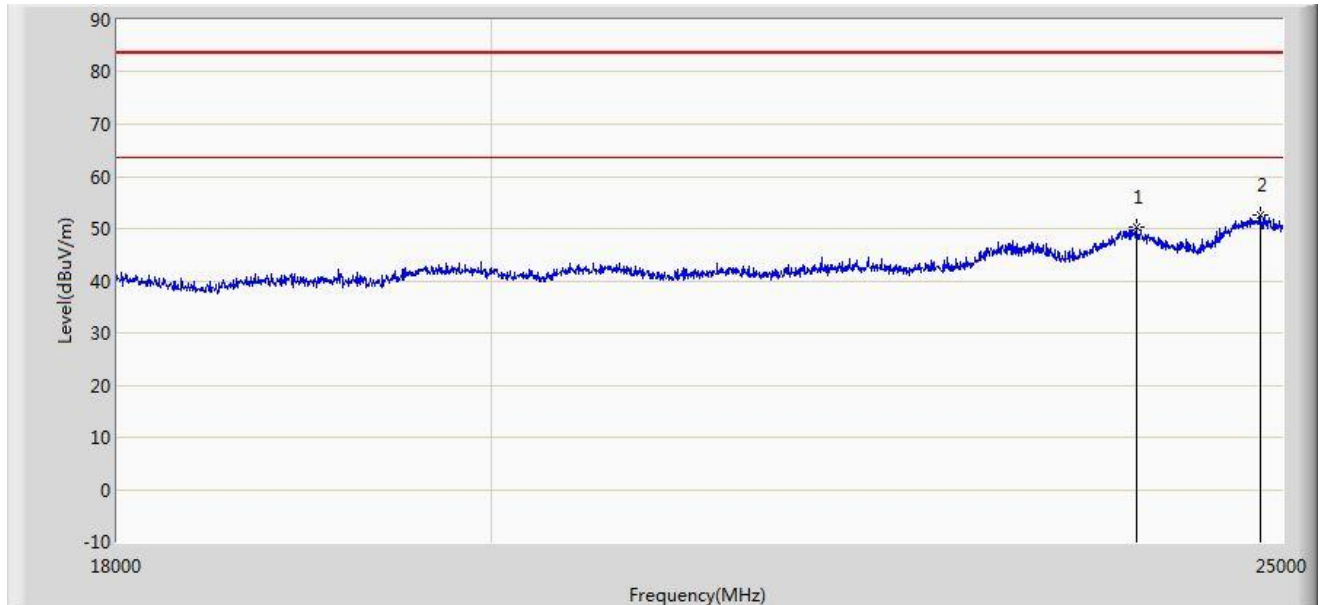**Note: There is the ambient noise within frequency range 18GHz~25GHz.**
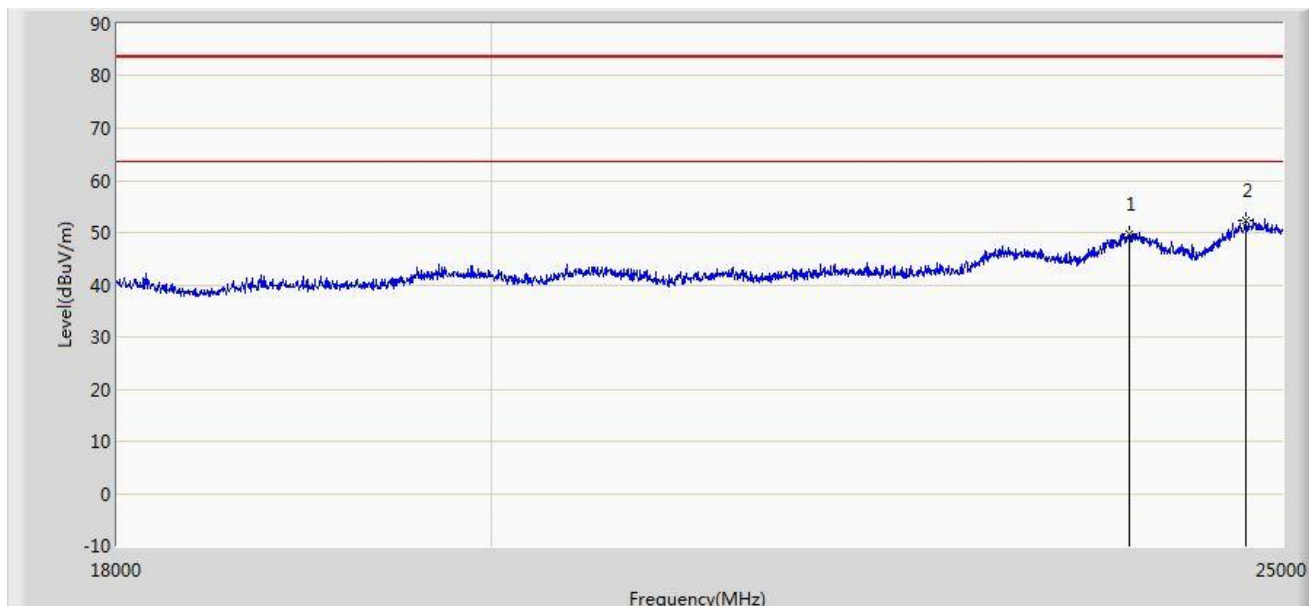
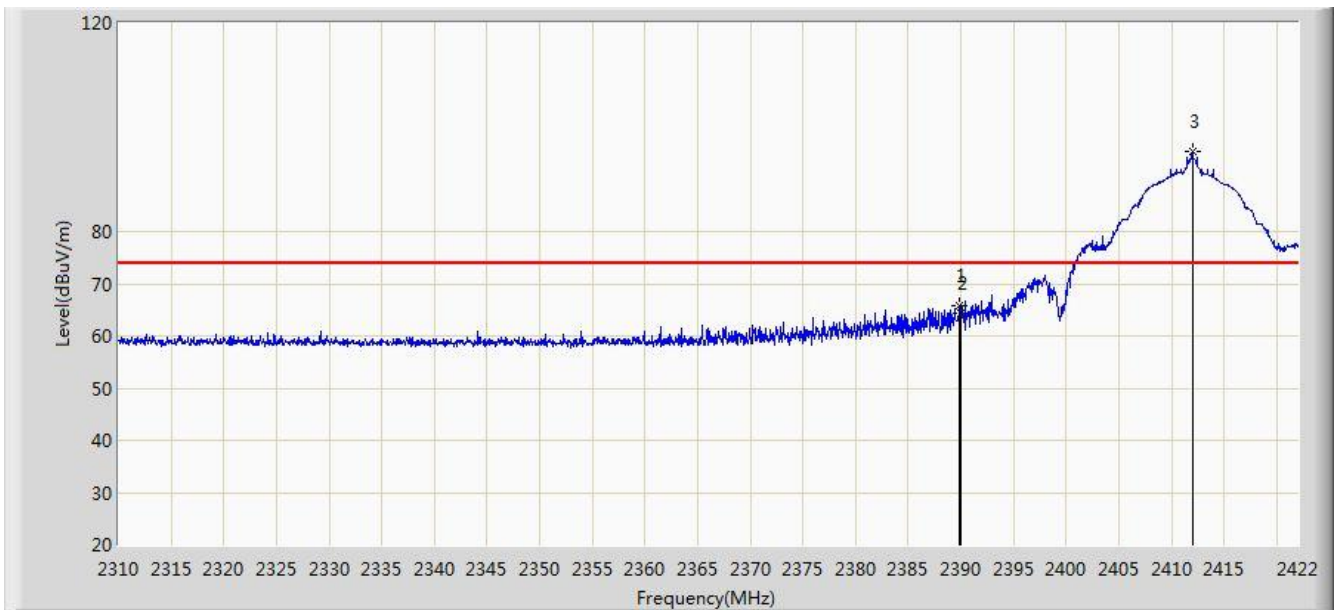| No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			23943.000	49.776	35.866	-33.724	83.500	13.910	PK
2		*	24741.000	52.375	37.681	-31.125	83.500	14.694	PK

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

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

Site: AC2	Time: 2016/09/22 - 21:32
Limit: FCC_Part15.209_RE(1m)	Engineer: Roy Cheng
Probe: BBHA9170_18-40GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer

Note: There is the ambient noise within frequency range 18GHz~25GHz.

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			23999.000	50.379	36.435	-33.121	83.500	13.944	PK
2		*	24846.000	52.503	37.735	-30.997	83.500	14.768	PK

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

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

7.7. Radiated Restricted Band Edge Measurement

7.7.1. Test Result

|	
Site: AC2	Time: 2016/09/20 - 23:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11b at Channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.912	65.735	33.812	-8.265	74.000	31.923	PK
2			2390.000	64.468	32.545	-9.532	74.000	31.923	PK
3		*	2411.976	95.286	63.422	N/A	N/A	31.864	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: AC2	Time: 2016/09/20 - 23:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11b at Channel 2412MHz	
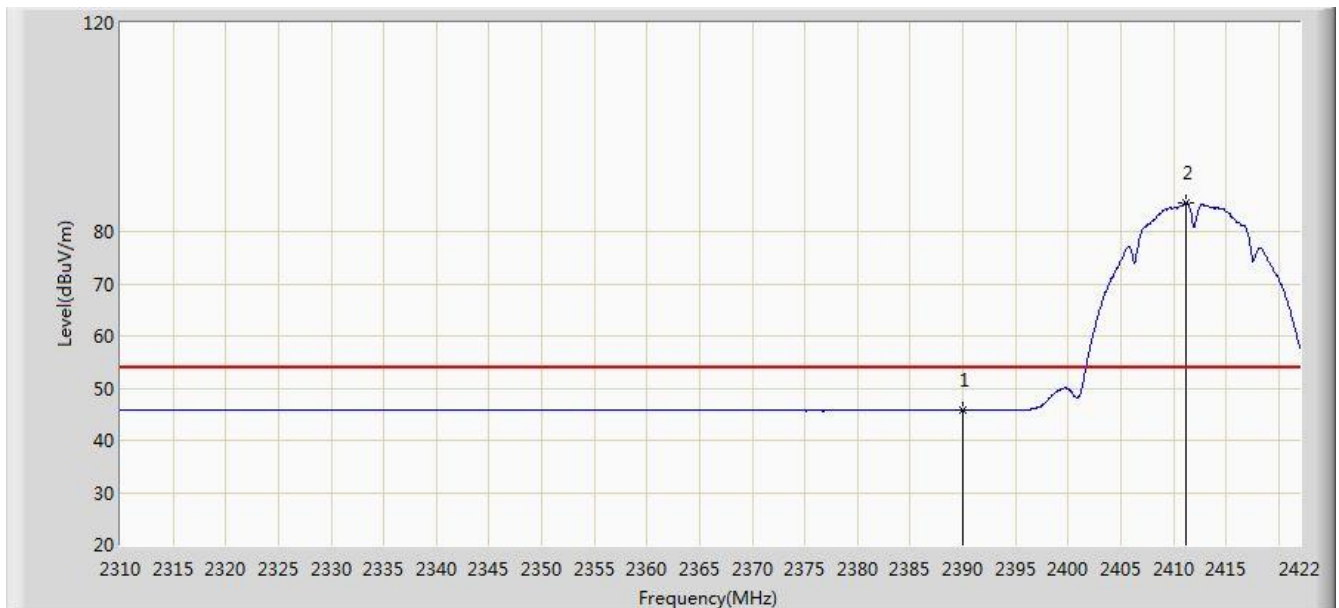
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.794	13.871	-8.206	54.000	31.923	AV
2		*	2411.248	85.472	53.607	N/A	N/A	31.865	AV

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

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

| Site: AC2	Time: 2016/09/20 - 23:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11b at Channel 2412MHz	
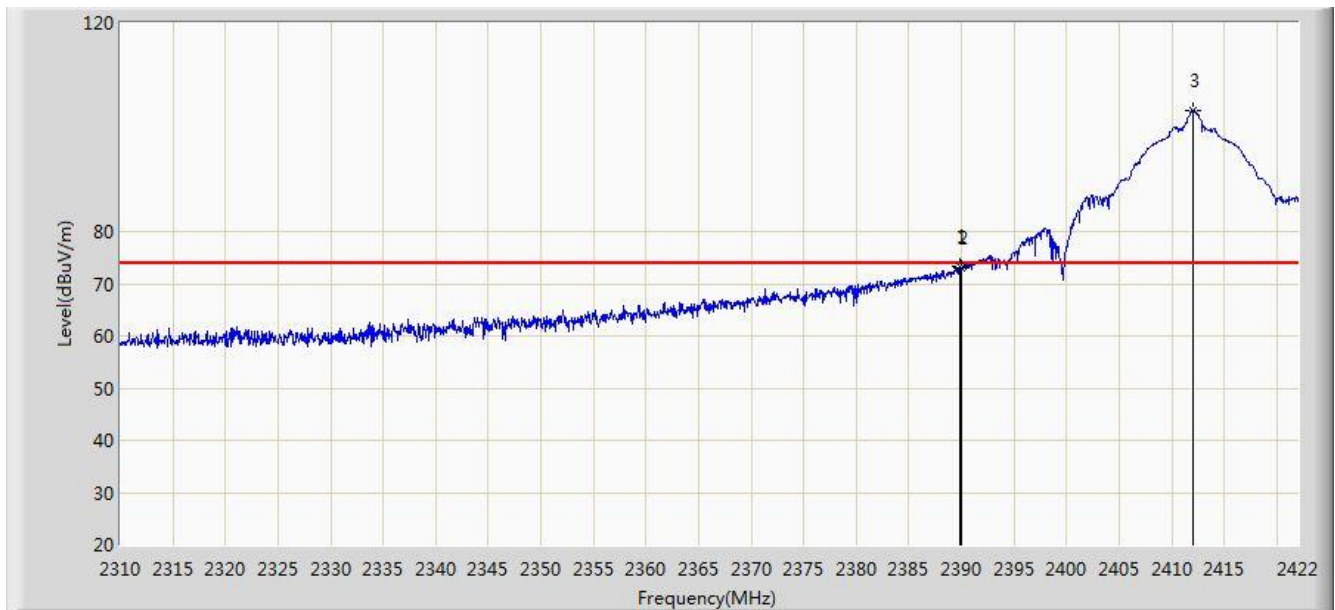
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.856	73.211	41.288	-0.789	74.000	31.923	PK
2			2390.000	72.901	40.978	-1.099	74.000	31.923	PK
3		*	2412.088	103.299	71.435	N/A	N/A	31.864	PK

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

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

| Site: AC2	Time: 2016/09/20 - 23:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11b at Channel 2412MHz	
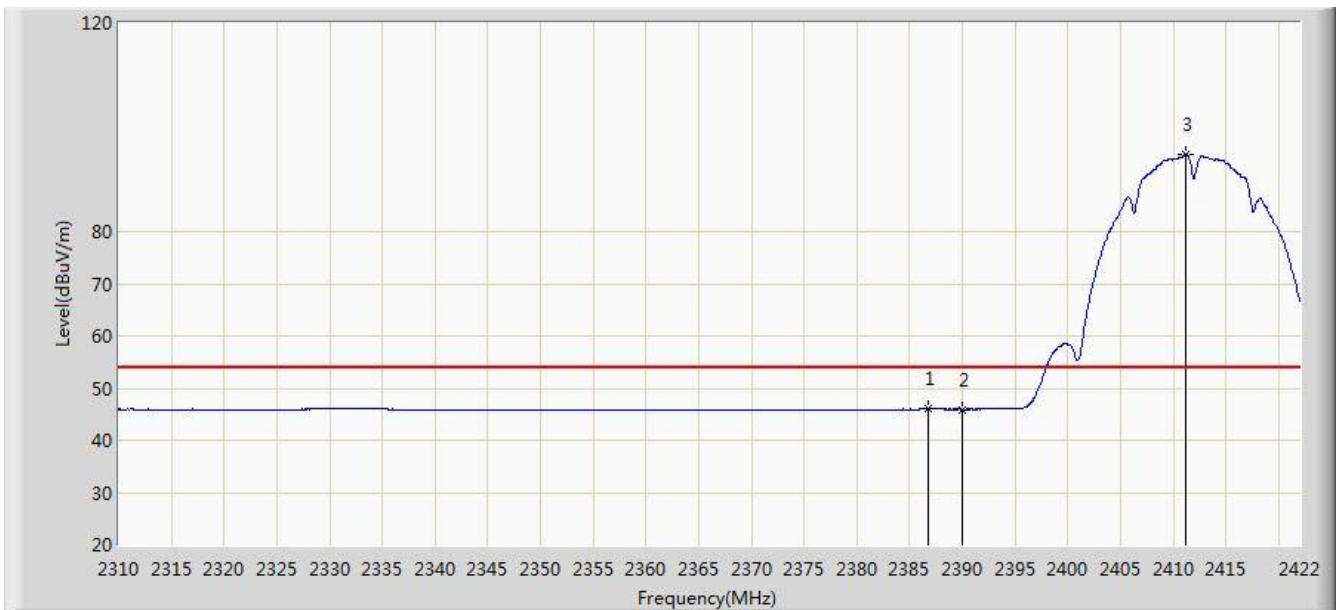
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.720	46.012	14.092	-7.988	54.000	31.920	AV
2			2390.000	45.915	13.992	-8.085	54.000	31.923	AV
3		*	2411.192	94.777	62.912	N/A	N/A	31.865	AV

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

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

Site: AC2	Time: 2016/09/20 - 23:37
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11b at Channel 2462MHz	
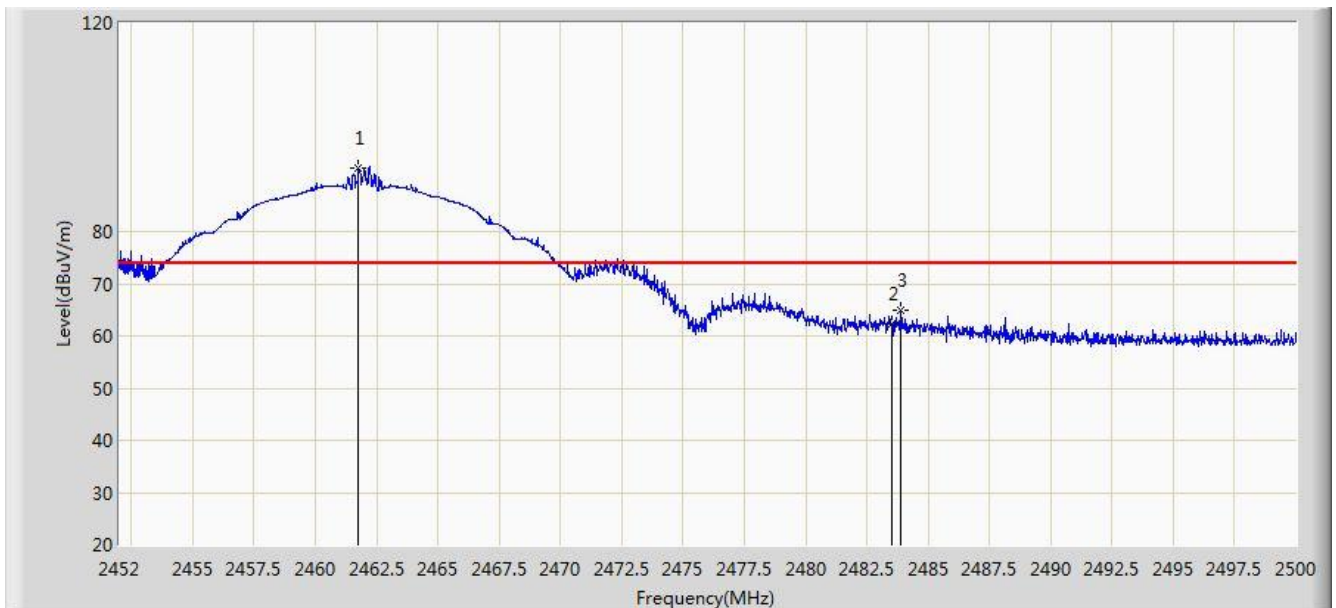
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.768	92.308	60.465	N/A	N/A	31.843	PK
2			2483.500	62.308	30.394	-11.692	74.000	31.914	PK
3			2483.896	64.840	32.925	-9.160	74.000	31.914	PK

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

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

| Site: AC2	Time: 2016/09/20 - 23:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11b at Channel 2462MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.192	84.923	53.081	N/A	N/A	31.842	AV
2			2483.500	45.787	13.873	-8.213	54.000	31.914	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: AC2	Time: 2016/09/20 - 23:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11b at Channel 2462MHz	
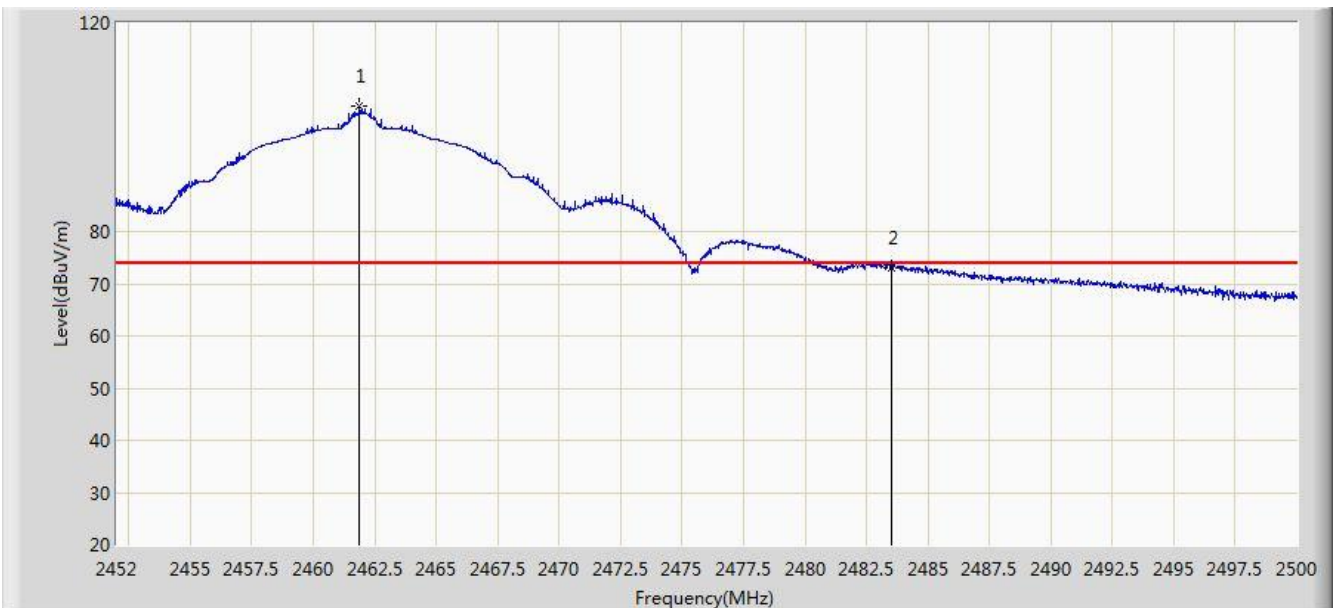
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.888	103.937	72.094	N/A	N/A	31.843	PK
2			2483.500	73.135	41.221	-0.865	74.000	31.914	PK

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

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

| Site: AC2	Time: 2016/09/20 - 23:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11b at Channel 2462MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.192	84.923	53.081	N/A	N/A	31.842	AV
2			2483.500	45.787	13.873	-8.213	54.000	31.914	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: AC2	Time: 2016/09/20 - 23:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11g at Channel 2412MHz	
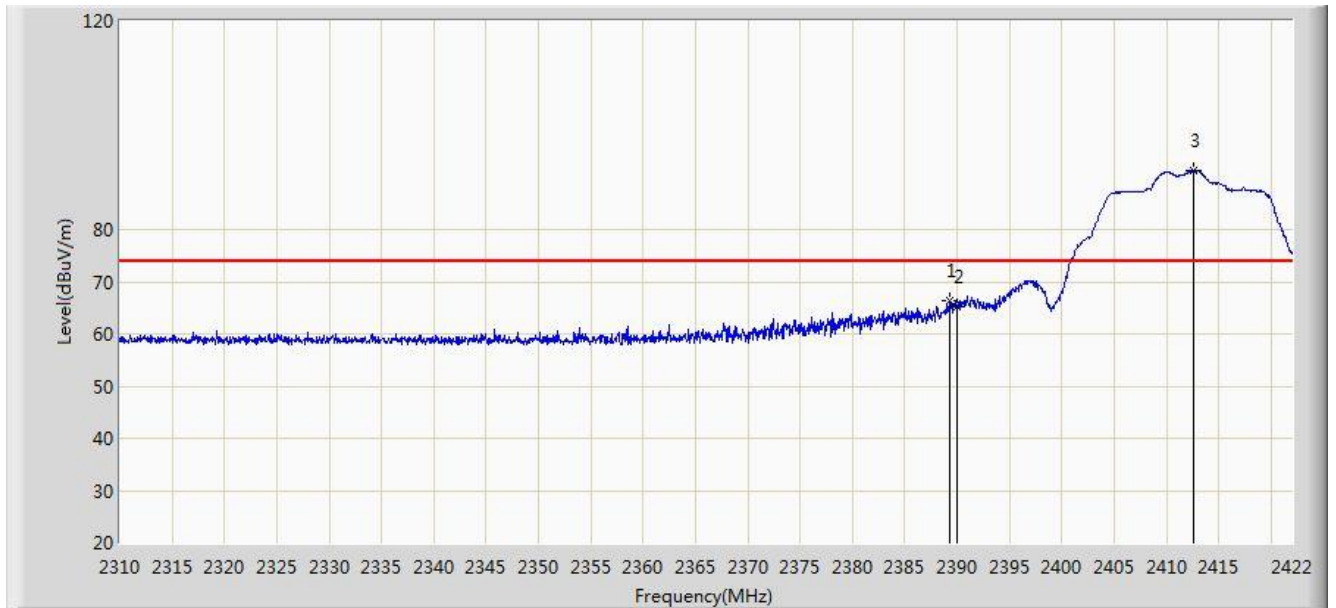
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.352	66.276	34.354	-7.724	74.000	31.922	PK
2			2390.000	65.245	33.322	-8.755	74.000	31.923	PK
3		*	2412.648	91.276	59.413	N/A	N/A	31.863	PK

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

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

| Site: AC2	Time: 2016/09/20 - 23:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11g at Channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.686	13.763	-8.314	54.000	31.923	AV
2		*	2415.224	76.380	44.520	N/A	N/A	31.860	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: AC2	Time: 2016/09/20 - 23:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11g at Channel 2412MHz	
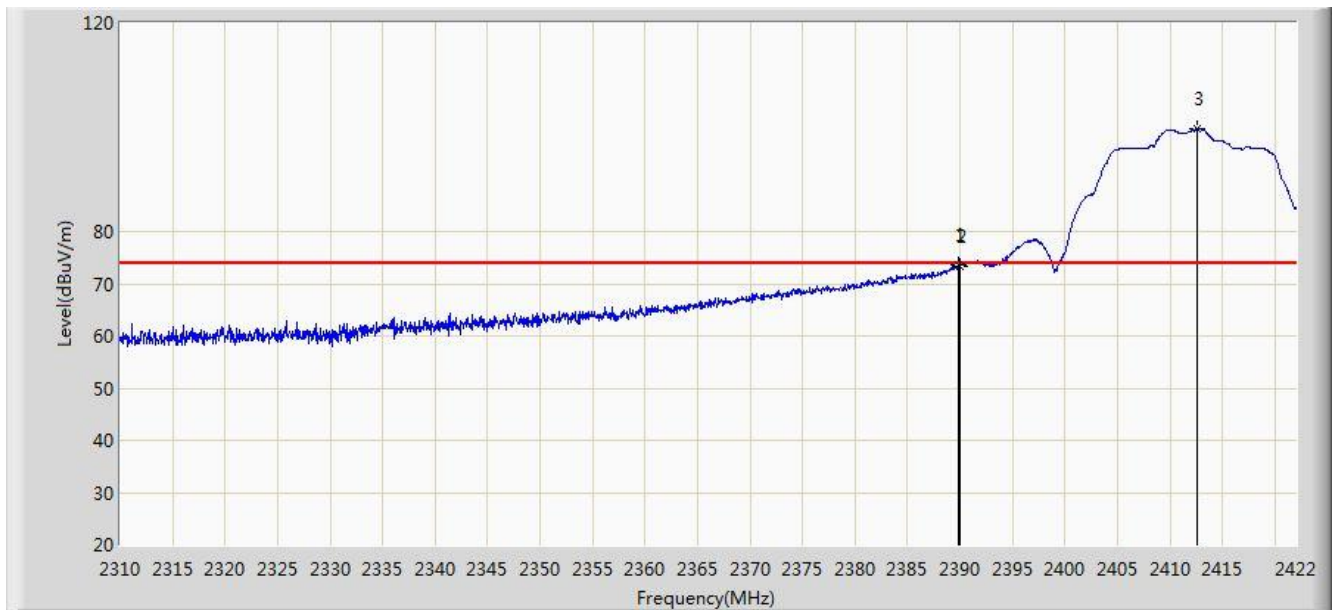
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.912	73.650	41.727	-0.350	74.000	31.923	PK
2			2390.000	73.475	41.552	-0.525	74.000	31.923	PK
3		*	2412.648	99.642	67.779	N/A	N/A	31.863	PK

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

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

| Site: AC2	Time: 2016/09/20 - 23:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11g at Channel 2412MHz	
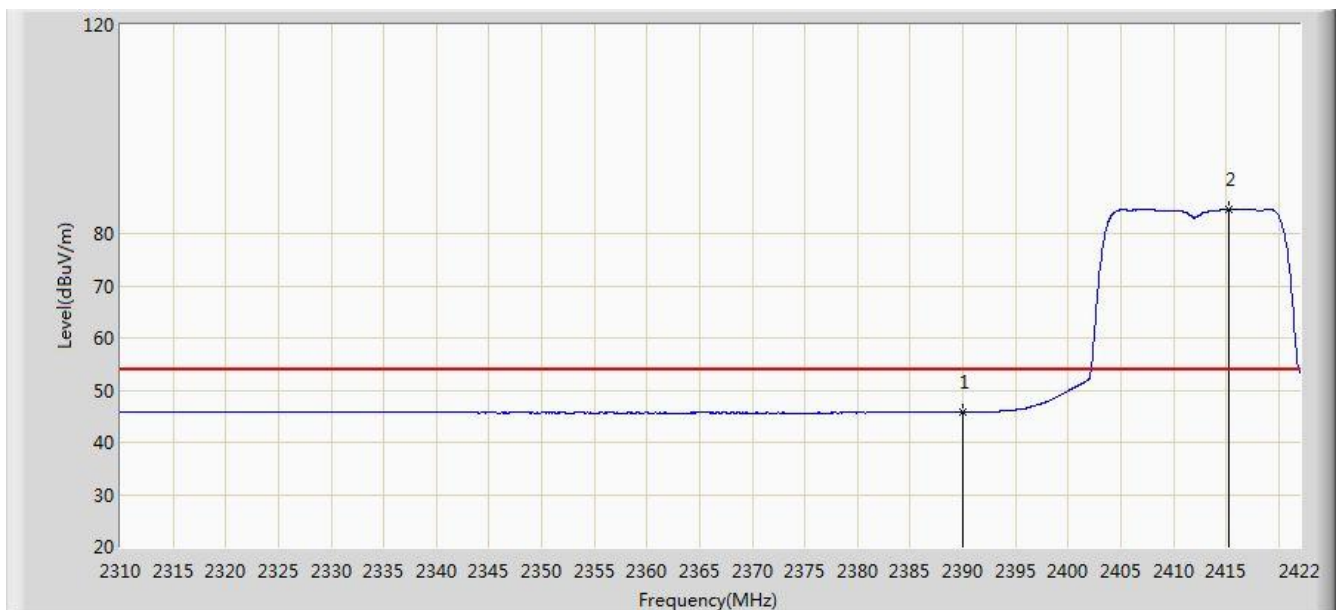
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.800	13.877	-8.200	54.000	31.923	AV
2		*	2415.224	84.677	52.817	N/A	N/A	31.860	AV

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

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

| Site: AC2	Time: 2016/09/21 - 00:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11g at Channel 2462MHz	
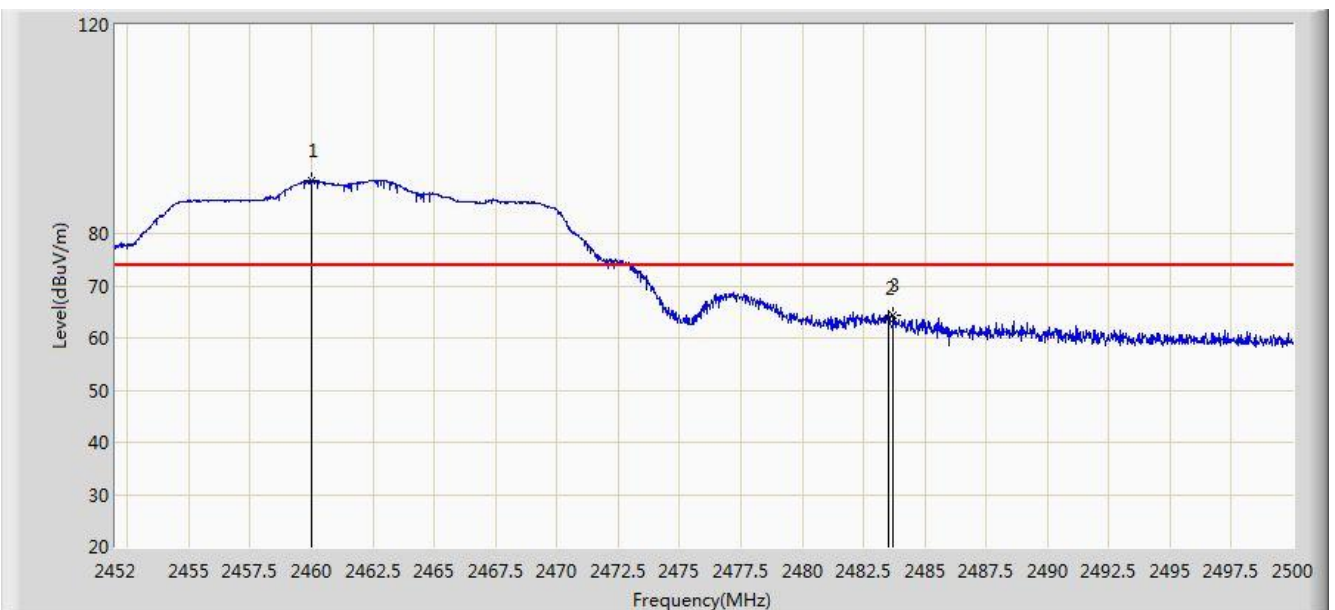
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.016	90.251	58.411	N/A	N/A	31.840	PK
2			2483.500	63.692	31.778	-10.308	74.000	31.914	PK
3			2483.728	64.223	32.309	-9.777	74.000	31.914	PK

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

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

Site: AC2	Time: 2016/09/21 - 00:09
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11g at Channel 2462MHz	
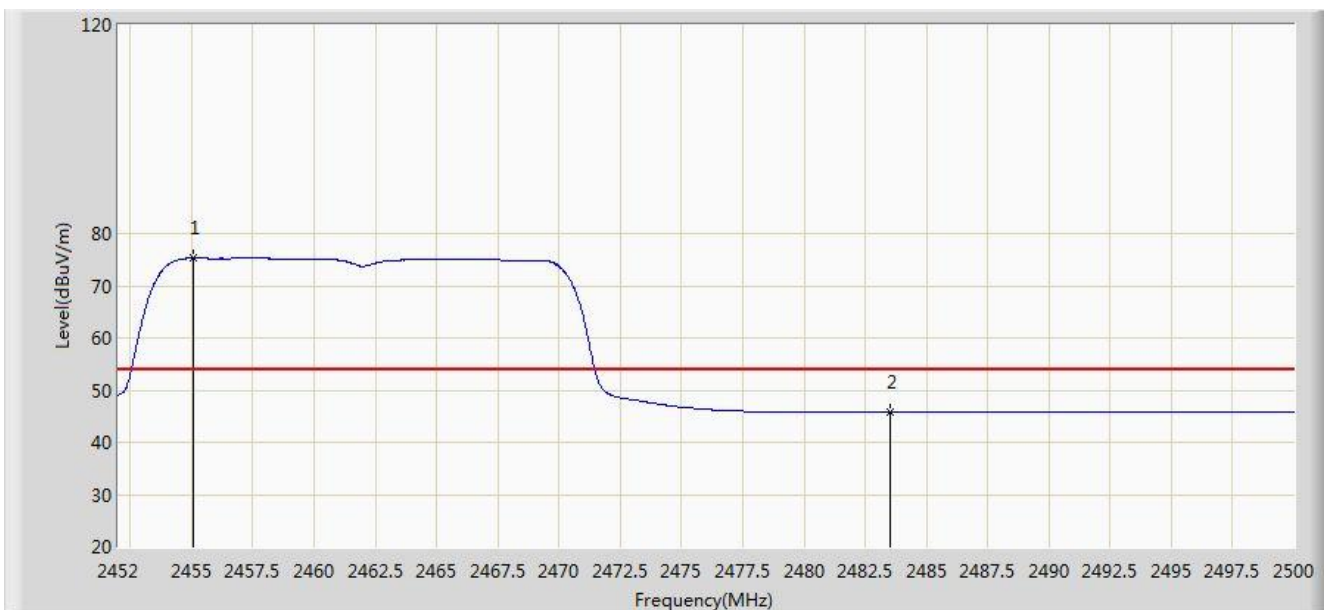
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2455.072	75.325	43.494	N/A	N/A	31.830	AV
2			2483.500	45.783	13.869	-8.217	54.000	31.914	AV

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

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

| Site: AC2	Time: 2016/09/21 - 00:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11g at Channel 2462MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.776	101.123	69.278	N/A	N/A	31.845	PK
2			2483.500	73.558	41.644	-0.442	74.000	31.914	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: AC2	Time: 2016/09/21 - 00:04
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11g at Channel 2462MHz	
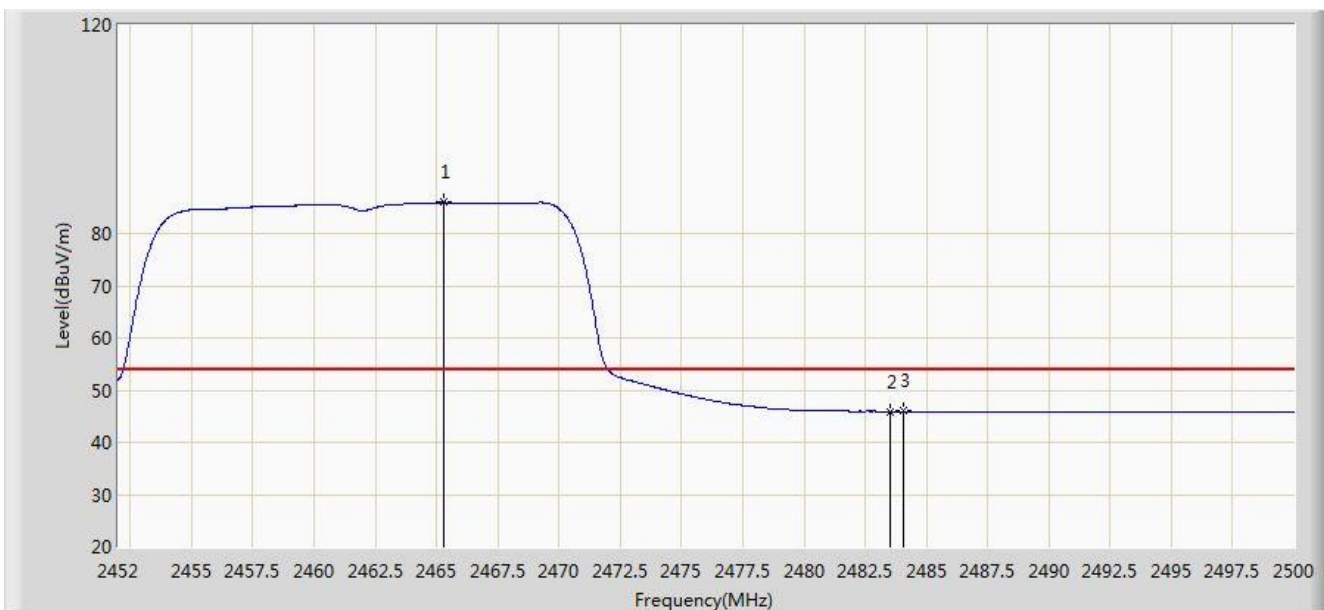
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2465.272	85.960	54.107	N/A	N/A	31.853	AV
2			2483.500	45.925	14.011	-8.075	54.000	31.914	AV
3			2484.088	45.949	14.034	-8.051	54.000	31.916	AV

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

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

| Site: AC2	Time: 2016/09/21 - 00:21
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	
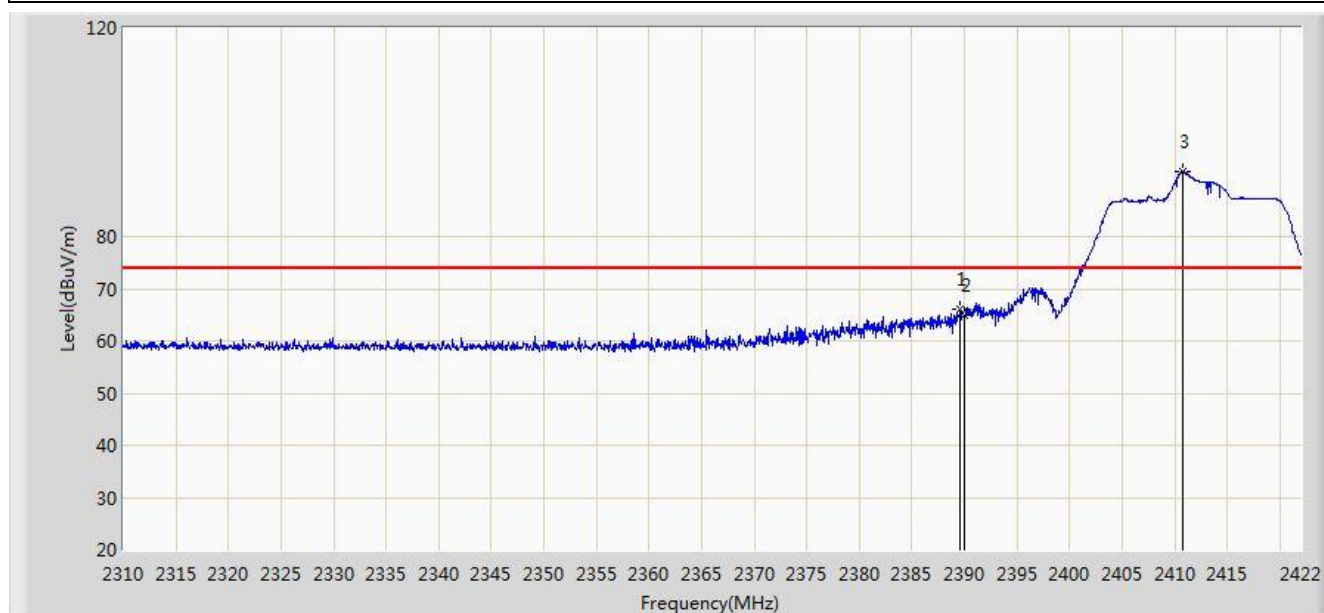
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.576	66.148	34.225	-7.852	74.000	31.923	PK
2			2390.000	64.885	32.962	-9.115	74.000	31.923	PK
3		*	2410.744	92.420	60.554	N/A	N/A	31.866	PK

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

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

| Site: AC2	Time: 2016/09/21 - 00:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	
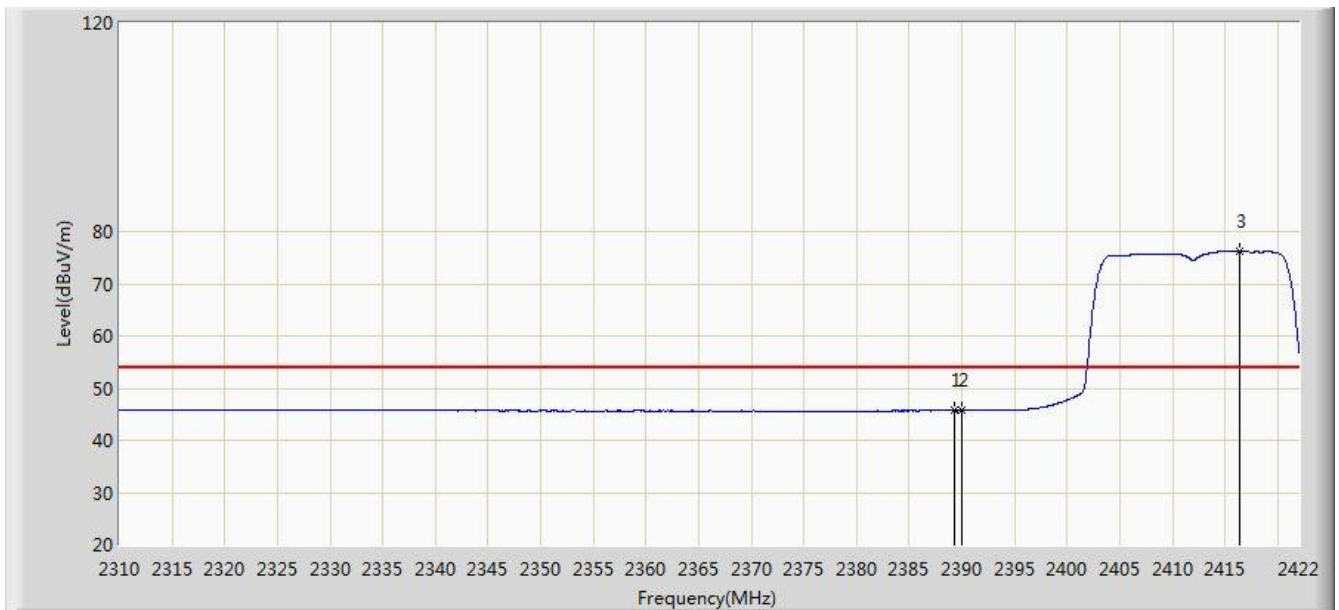
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.296	45.727	13.805	-8.273	54.000	31.923	AV
2			2390.000	45.732	13.809	-8.268	54.000	31.923	AV
3		*	2416.344	76.276	44.417	N/A	N/A	31.860	AV

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

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

| Site: AC2	Time: 2016/09/21 - 00:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	
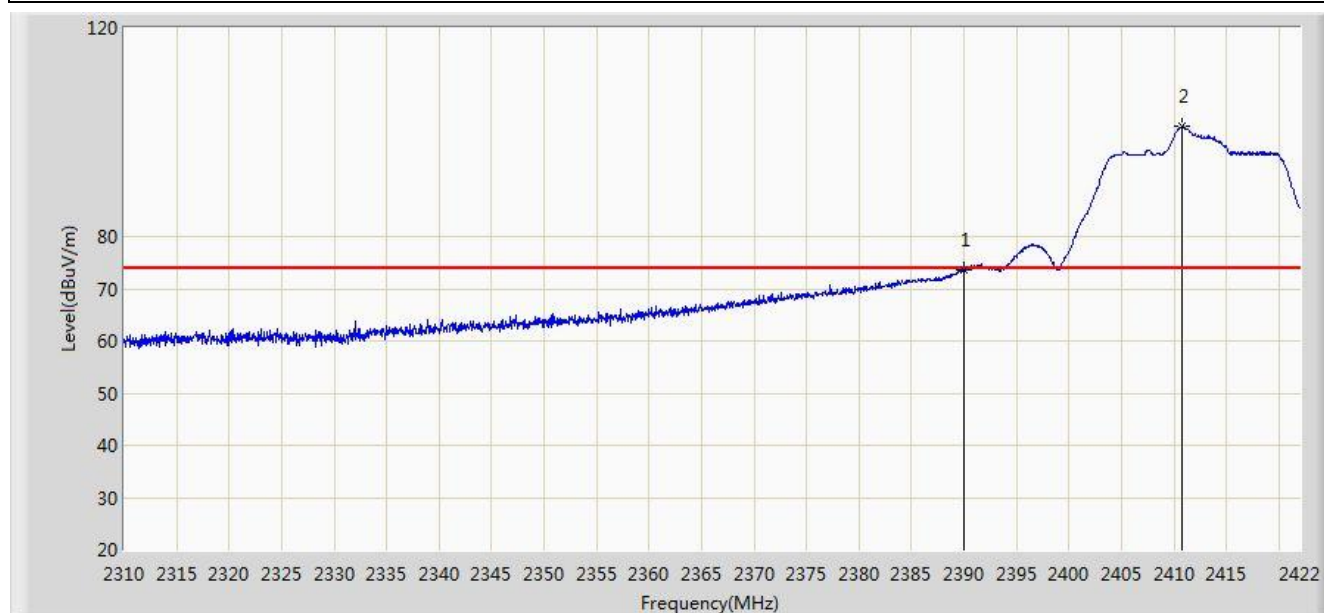
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	73.544	41.621	-0.456	74.000	31.923	PK
2		*	2410.800	101.250	69.384	N/A	N/A	31.866	PK

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

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

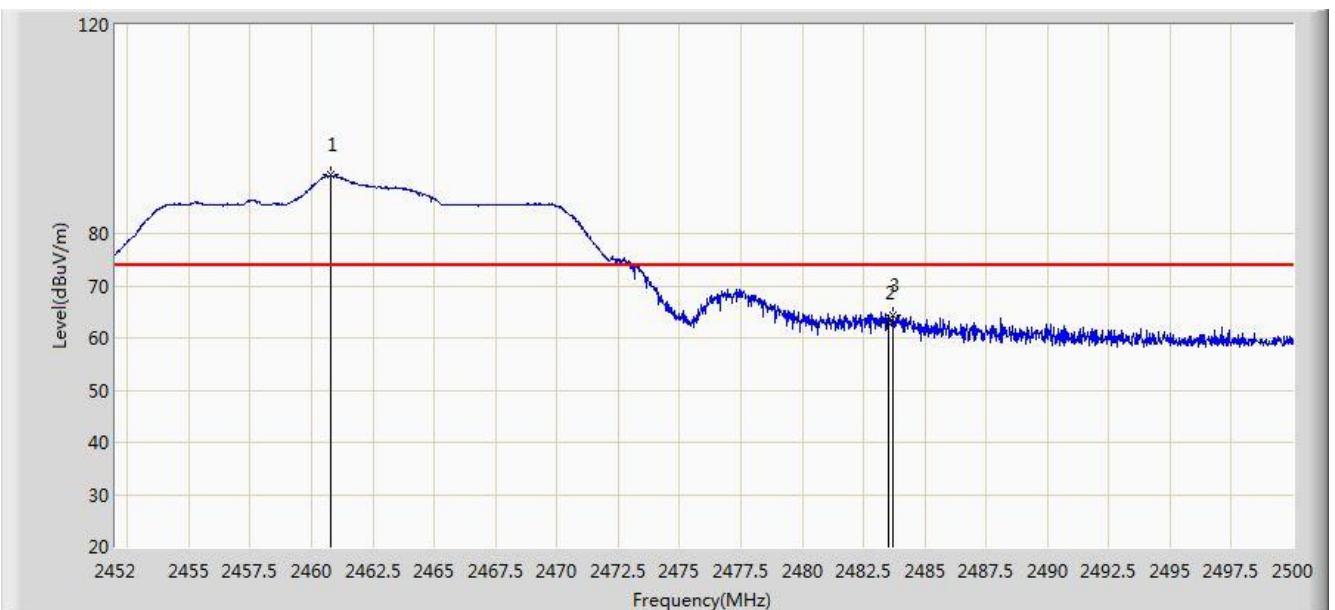| Site: AC2	Time: 2016/09/21 - 00:20
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT20 at Channel 2412MHz	
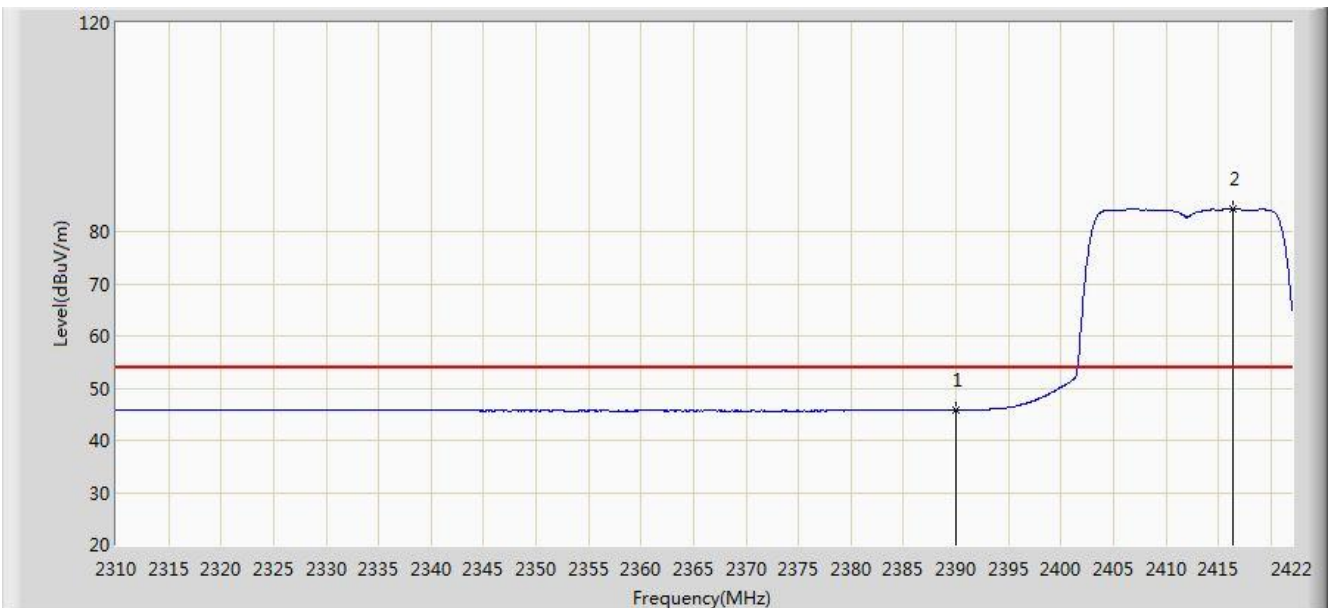
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.799	13.876	-8.201	54.000	31.923	AV
2		*	2416.400	84.340	52.481	N/A	N/A	31.859	AV

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

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

| Site: AC2	Time: 2016/09/21 - 00:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.784	91.259	59.418	N/A	N/A	31.841	PK
2			2483.500	62.927	31.013	-11.073	74.000	31.914	PK
3			2483.680	64.351	32.437	-9.649	74.000	31.914	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: AC2	Time: 2016/09/21 - 00:36
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	
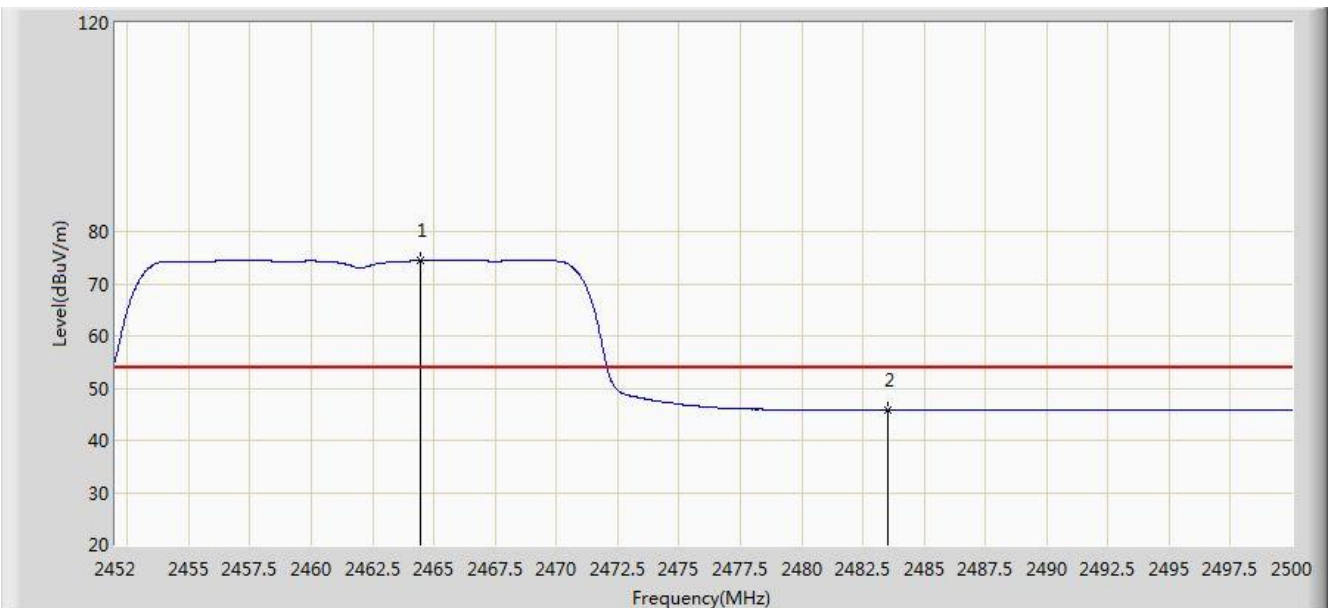
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.432	74.460	42.610	N/A	N/A	31.850	AV
2			2483.500	45.832	13.918	-8.168	54.000	31.914	AV

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

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

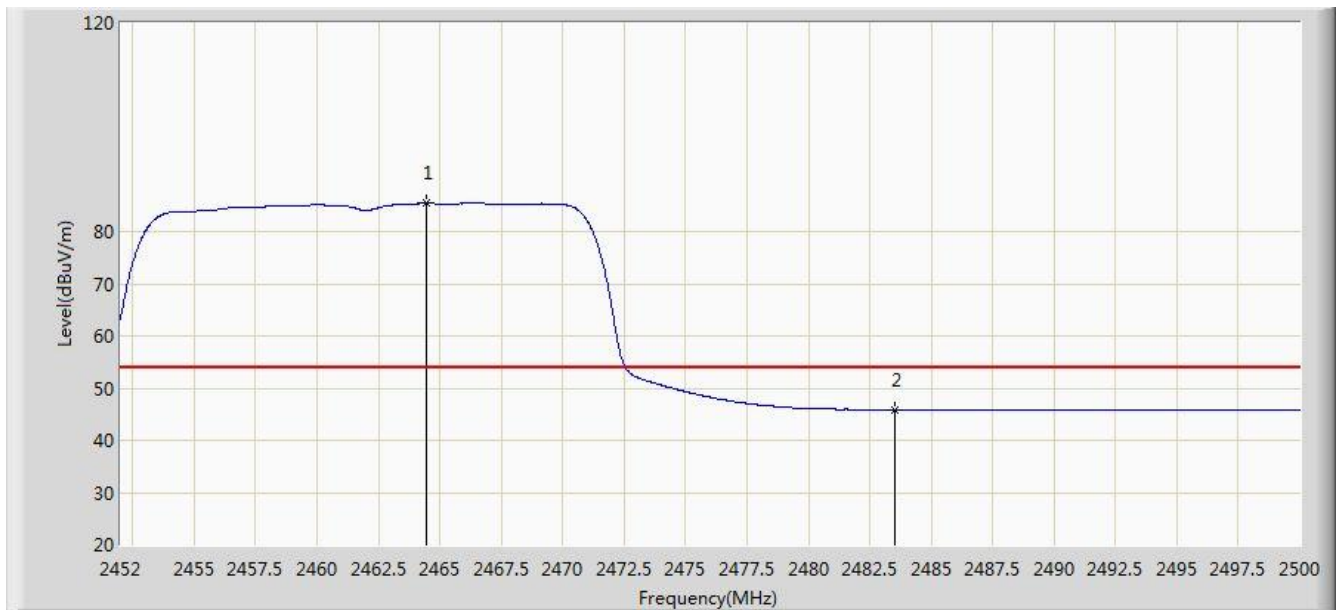| Site: AC2	Time: 2016/09/21 - 00:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	
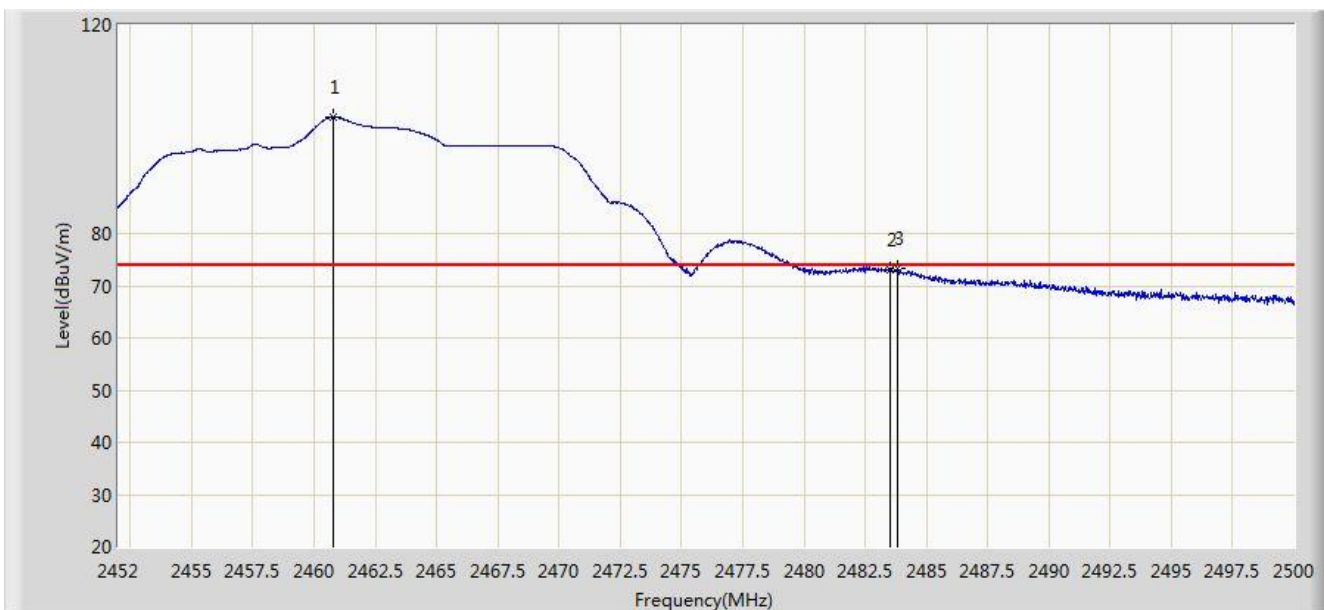
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.808	102.293	70.452	N/A	N/A	31.841	PK
2			2483.500	73.113	41.199	-0.887	74.000	31.914	PK
3			2483.848	73.358	41.443	-0.642	74.000	31.914	PK

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

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

| Site: AC2	Time: 2016/09/21 - 00:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT20 at Channel 2462MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.432	85.427	53.577	N/A	N/A	31.850	AV
2			2483.500	45.900	13.986	-8.100	54.000	31.914	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: AC2	Time: 2016/09/21 - 00:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	
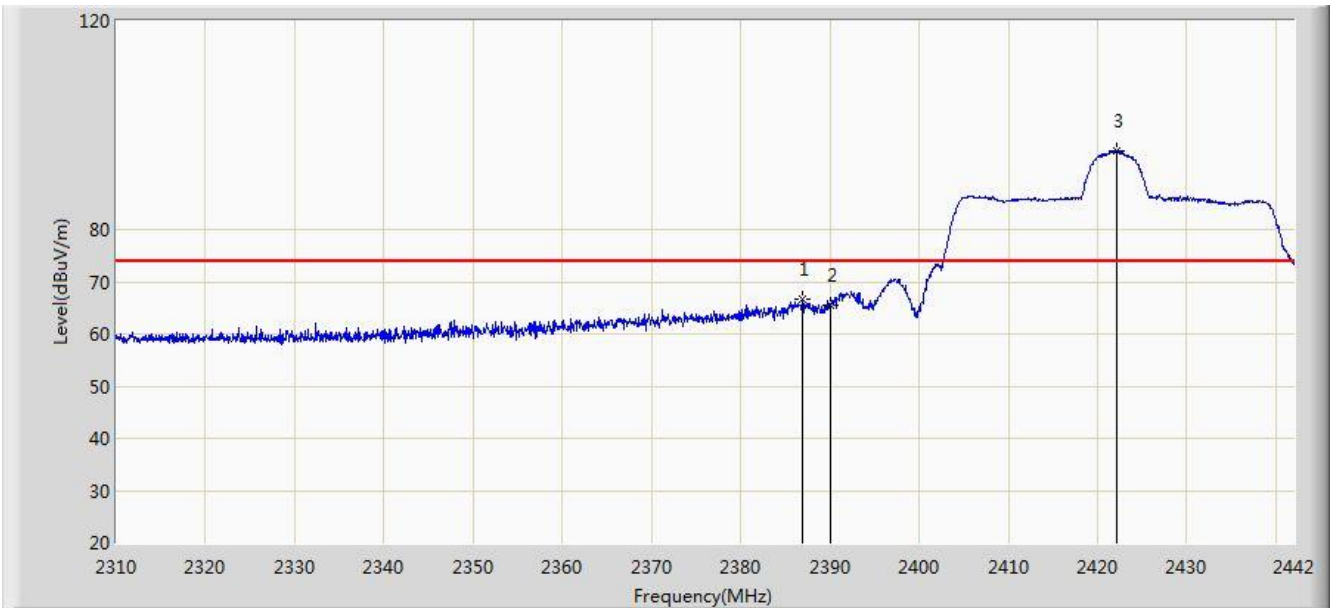
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.890	66.543	34.623	-7.457	74.000	31.920	PK
2			2390.000	65.405	33.482	-8.595	74.000	31.923	PK
3		*	2422.134	95.121	63.268	N/A	N/A	31.853	PK

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

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

| Site: AC2	Time: 2016/09/21 - 00:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	
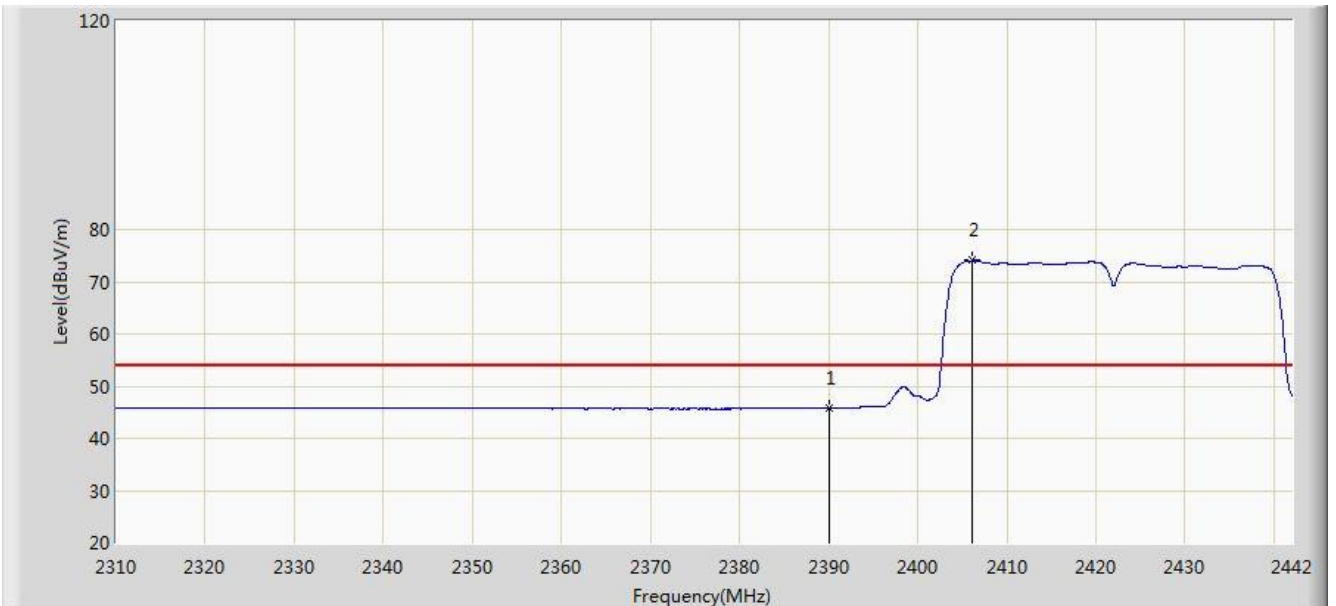
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	45.817	13.894	-8.183	54.000	31.923	AV
2		*	2406.162	74.077	42.194	N/A	N/A	31.882	AV

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

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

| Site: AC2	Time: 2016/09/21 - 00:44
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	
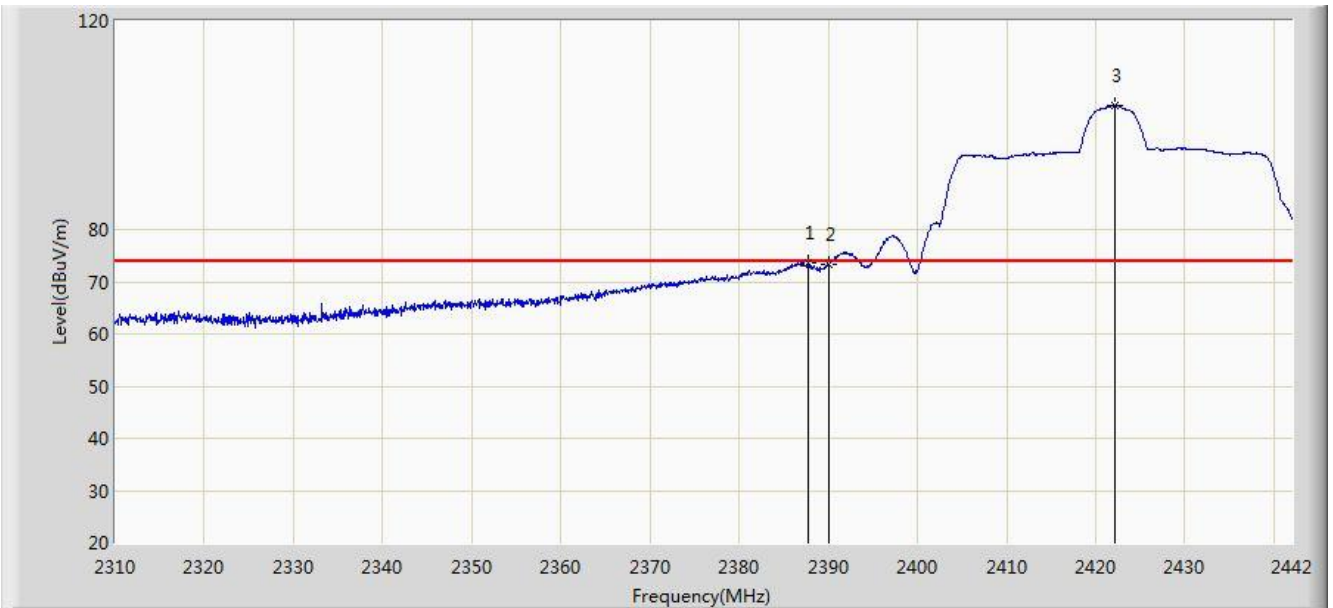
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2387.682	73.700	41.779	-0.300	74.000	31.921	PK
2			2390.000	73.228	41.305	-0.772	74.000	31.923	PK
3		*	2422.134	103.883	72.030	N/A	N/A	31.853	PK

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

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

| Site: AC2	Time: 2016/09/21 - 00:46
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT40 at Channel 2422MHz	
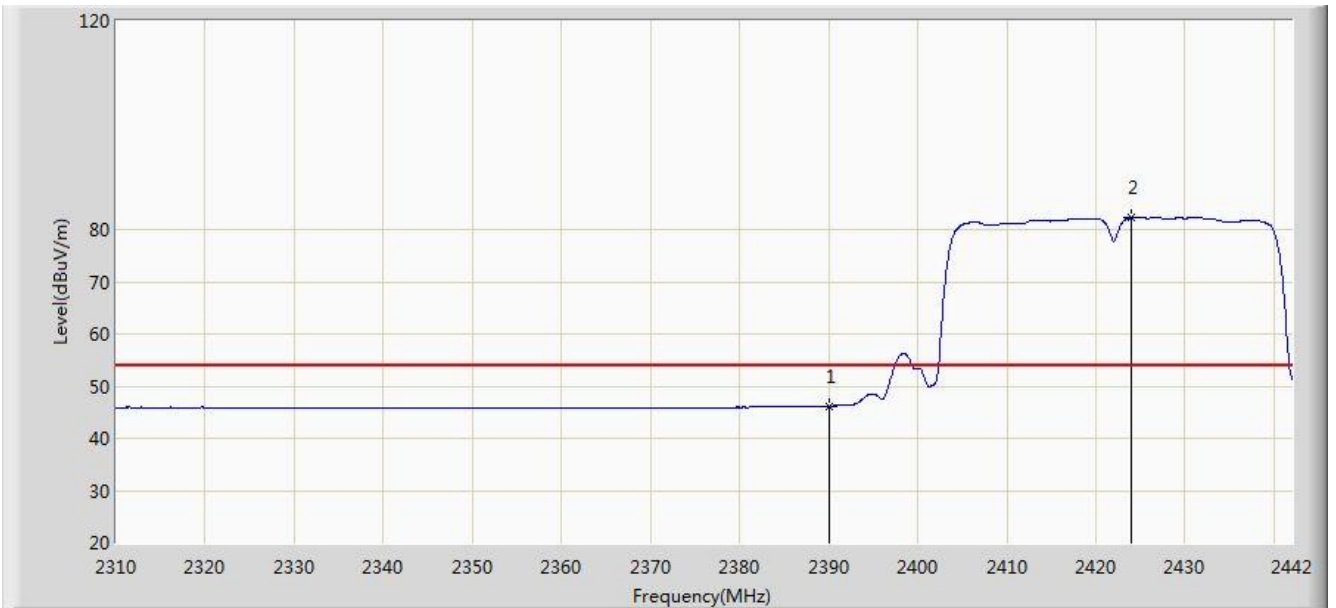
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	46.182	14.259	-7.818	54.000	31.923	AV
2		*	2424.048	82.319	50.469	N/A	N/A	31.850	AV

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

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

| Site: AC2	Time: 2016/09/21 - 00:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	
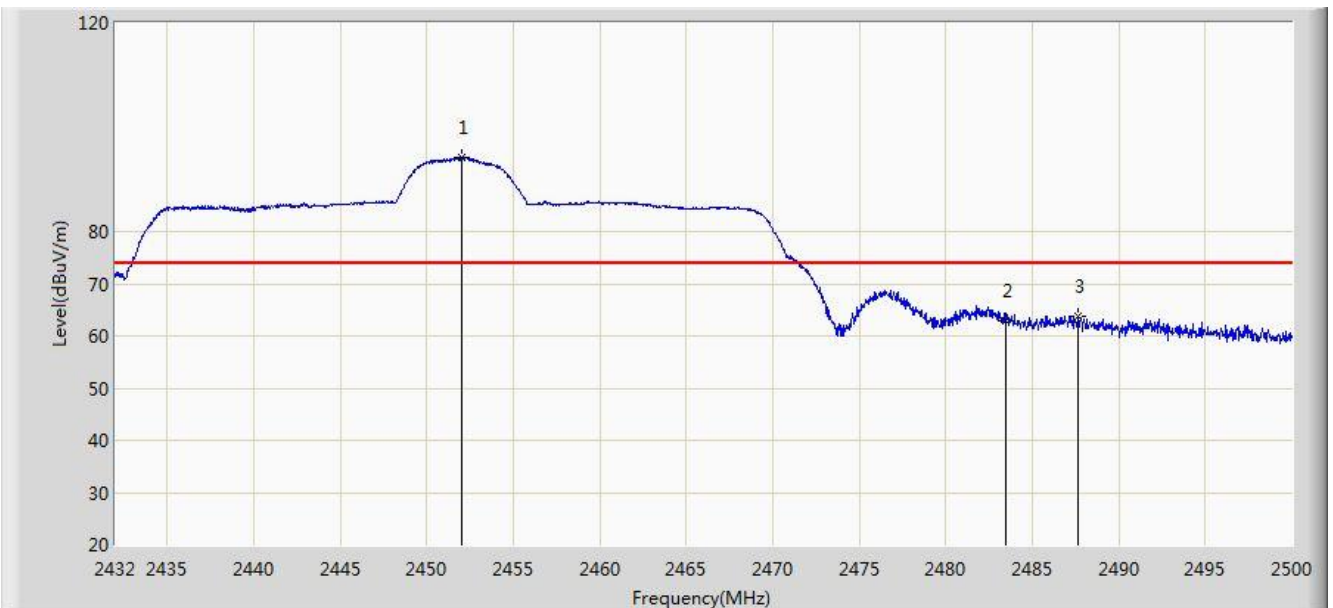
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2452.026	94.196	62.371	N/A	N/A	31.825	PK
2			2483.500	62.953	31.039	-11.047	74.000	31.914	PK
3			2487.658	63.898	31.972	-10.102	74.000	31.926	PK

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

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

Site: AC2	Time: 2016/09/21 - 01:10
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	
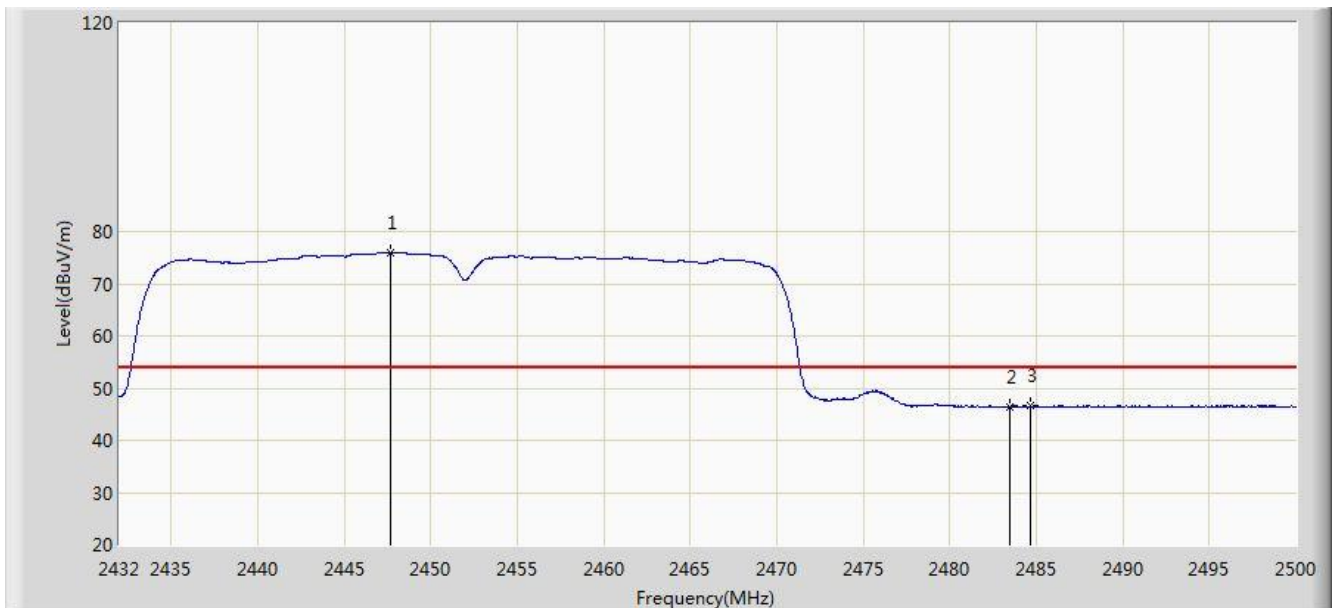
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2447.708	75.999	44.182	N/A	N/A	31.817	AV
2			2483.500	46.425	14.511	-7.575	54.000	31.914	AV
3			2484.666	46.692	14.775	-7.308	54.000	31.917	AV

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

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

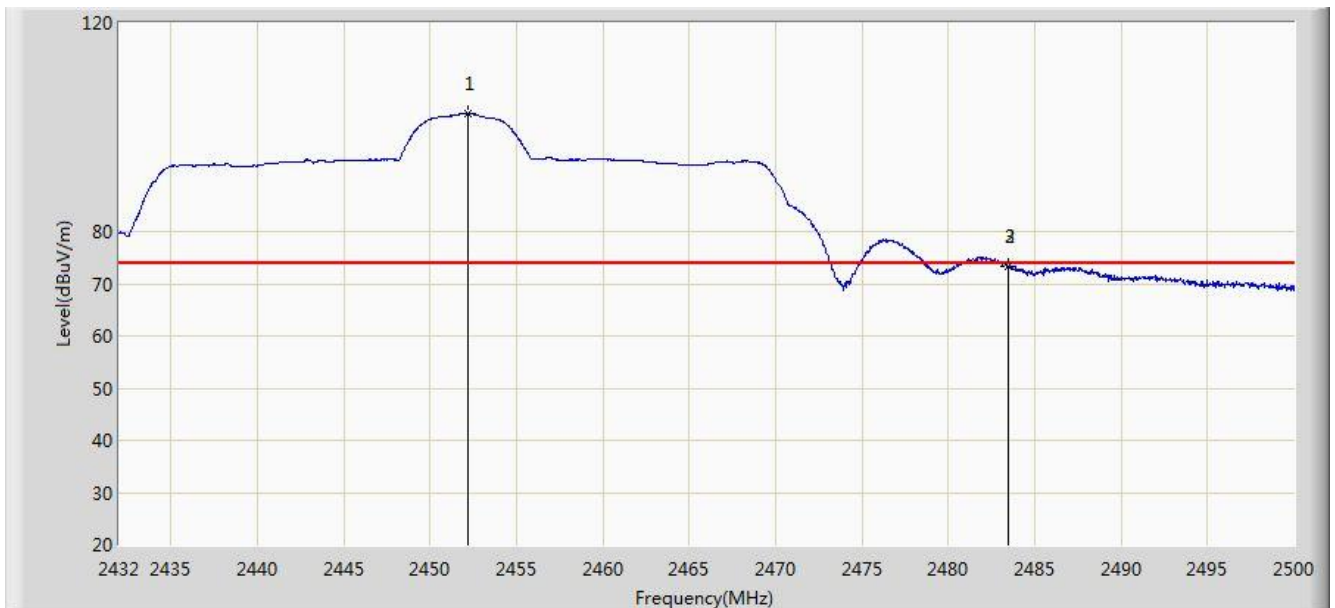| Site: AC2	Time: 2016/09/21 - 00:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2452.162	102.695	70.870	N/A	N/A	31.825	PK
2			2483.500	73.338	41.424	-0.662	74.000	31.914	PK
3			2483.510	73.357	41.443	-0.643	74.000	31.914	PK

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

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

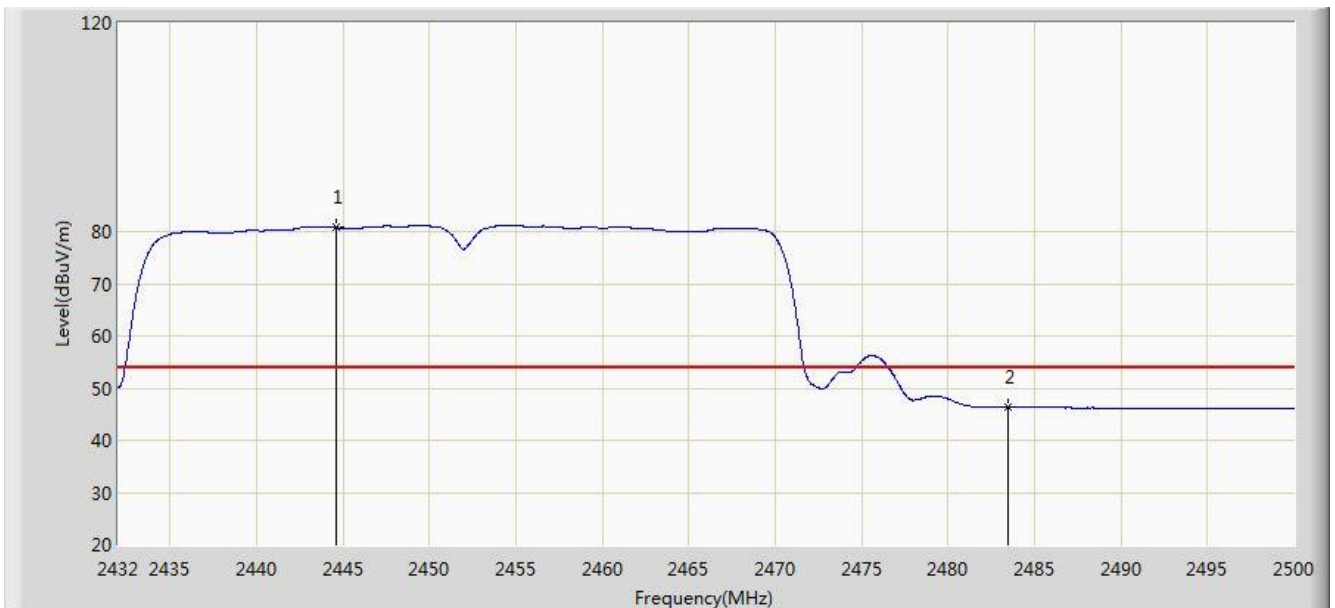| Site: AC2	Time: 2016/09/21 - 00:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Bruce Wang
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: WIFI Module	Power: By Computer
Test Mode: Transmit by 802.11n-HT40 at Channel 2452MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2444.648	80.752	48.936	N/A	N/A	31.817	AV
2			2483.500	46.373	14.459	-7.627	54.000	31.914	AV

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

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)
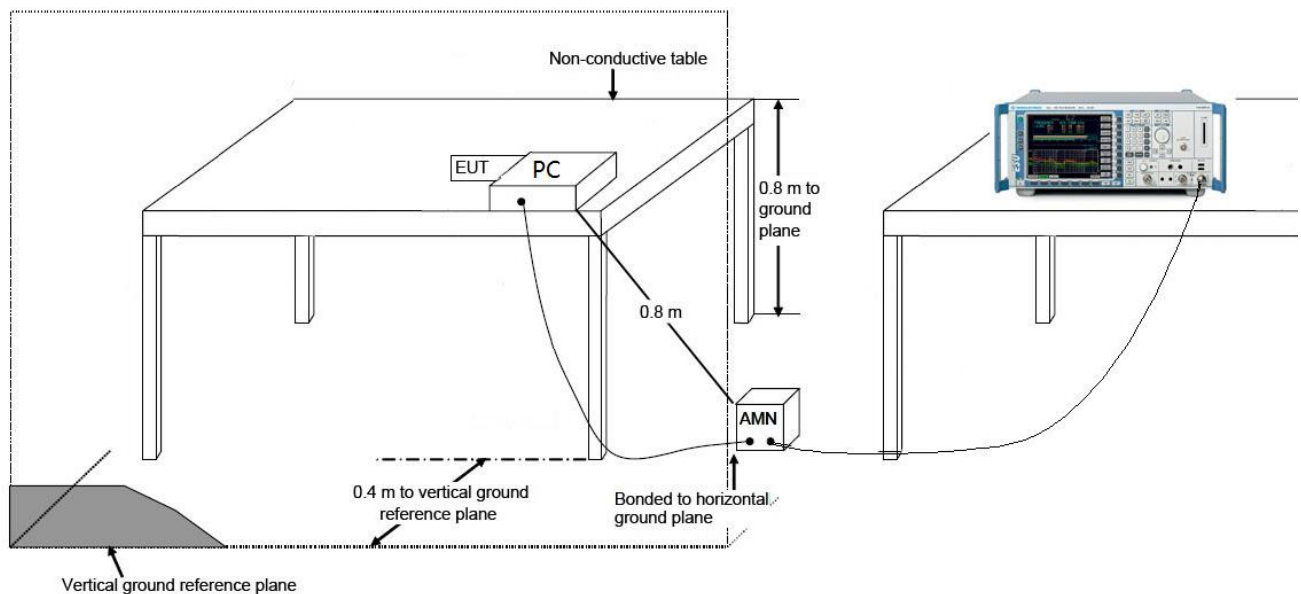
7.8. AC Conducted Emissions Measurement

7.8.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dBuV)	AV (dBuV)
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.
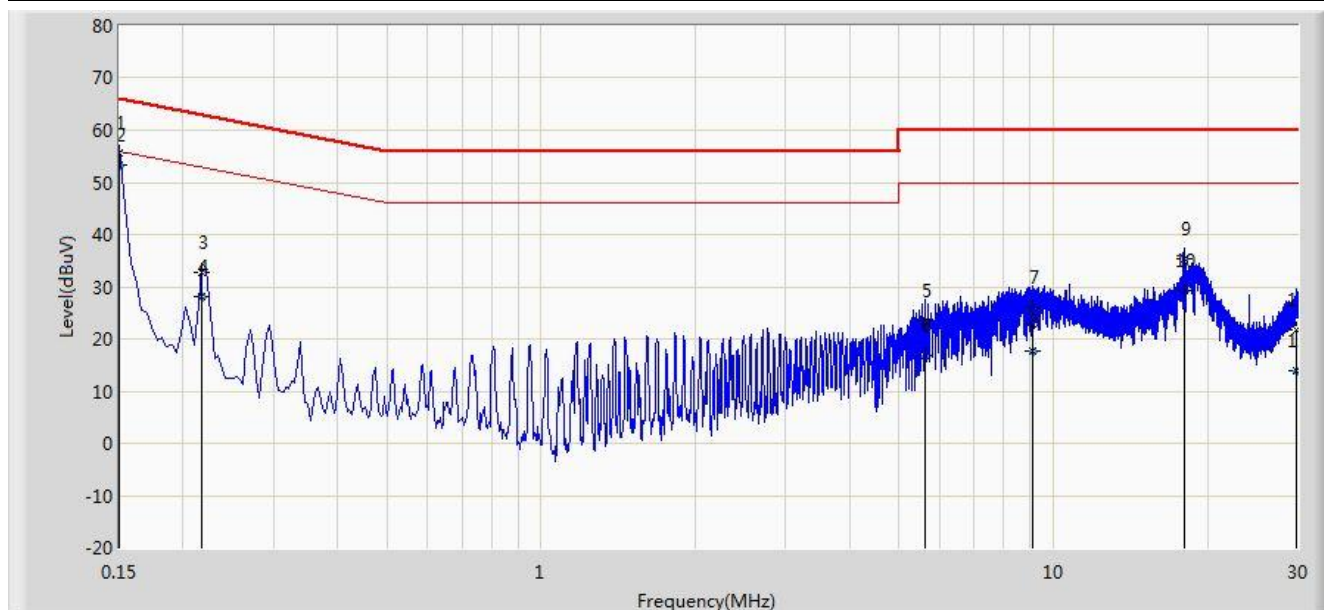
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to
0.5MHz.

7.8.2. Test Setup

7.8.3. Test Result

| Site: SR2	Time: 2016/09/29 - 14:02
Limit: FCC_Part15.207_CE_AC Power	Engineer: Line Chen
Probe: ENV216_101683_Filter On	Polarity: Line
EUT: WIFI Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	

No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	55.741	44.572	-10.259	66.000	11.168	QP
2		*	0.150	53.327	42.159	-2.673	56.000	11.168	AV
3			0.218	32.779	22.834	-30.116	62.895	9.945	QP
4			0.218	28.208	18.263	-24.687	52.895	9.945	AV
5			5.614	23.510	13.426	-36.490	60.000	10.083	QP
6			5.614	16.875	6.792	-33.125	50.000	10.083	AV
7			9.082	26.007	15.846	-33.993	60.000	10.161	QP
8			9.082	17.571	7.410	-32.429	50.000	10.161	AV
9			18.062	35.392	25.292	-24.608	60.000	10.100	QP
10			18.062	29.167	19.067	-20.833	50.000	10.100	AV
11			29.766	21.869	11.598	-38.131	60.000	10.271	QP
12			29.766	14.025	3.754	-35.975	50.000	10.271	AV

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

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

Site: SR2	Time: 2016/09/29 - 14:06
Limit: FCC_Part15.207_CE_AC Power	Engineer: Line Chen
Probe: ENV216_101683_Filter On	Polarity: Neutral
EUT: WIFI Module	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz	
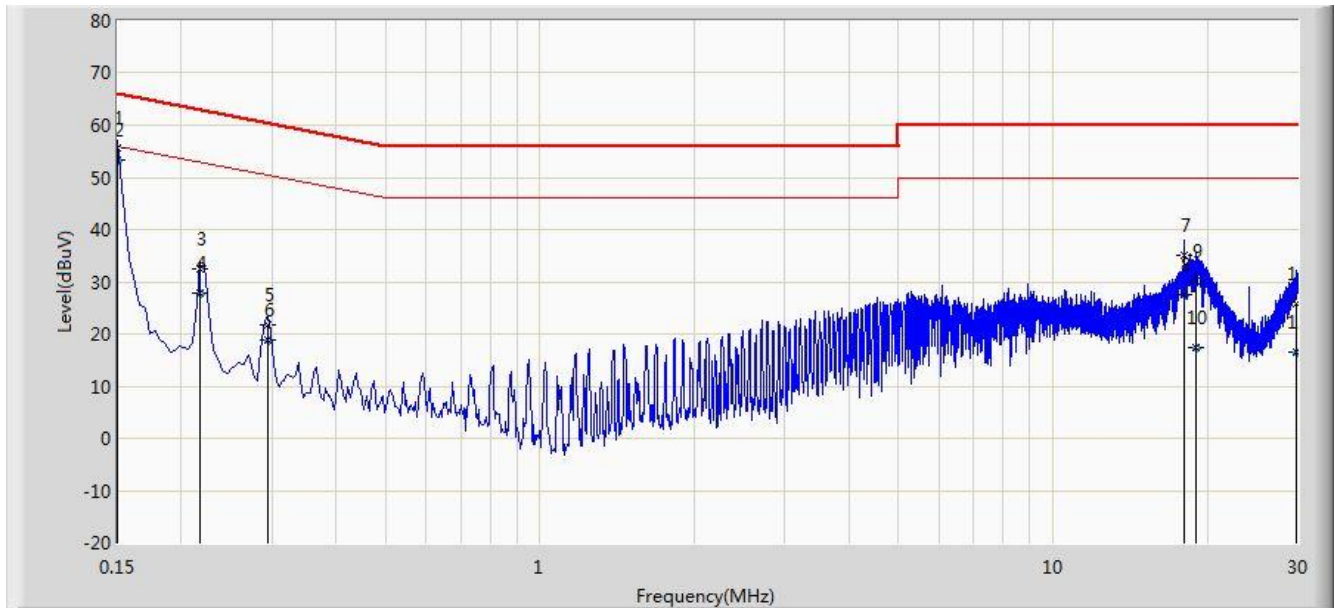
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.150	55.756	44.614	-10.244	66.000	11.142	QP
2		*	0.150	53.243	42.101	-2.757	56.000	11.142	AV
3			0.218	32.513	22.532	-30.381	62.895	9.981	QP
4			0.218	27.911	17.930	-24.984	52.895	9.981	AV
5			0.294	21.701	11.667	-38.710	60.411	10.033	QP
6			0.294	18.811	8.778	-31.599	50.411	10.033	AV
7			18.058	34.994	24.857	-25.006	60.000	10.137	QP
8			18.058	27.681	17.544	-22.319	50.000	10.137	AV
9			19.054	30.147	20.007	-29.853	60.000	10.140	QP
10			19.054	17.449	7.309	-32.551	50.000	10.140	AV
11			29.866	25.834	15.394	-34.166	60.000	10.440	QP
12			29.866	16.377	5.937	-33.623	50.000	10.440	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 **WIFI Module FCC ID:**

2AKCE-S83GESNB is in compliance with Part 15C of the FCC Rules.

—————————————— The End ——————————————