

## **7.5. Conducted Band Edge and Out-of-Band Emissions**

### **7.5.1. Test Limit**

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100 kHz bandwidth per the PSD procedure.

### **7.5.2. Test Procedure Used**

ANSI C63.10-2013 Section 11.11

### **7.5.3. Test Setting**

#### **Reference level measurement**

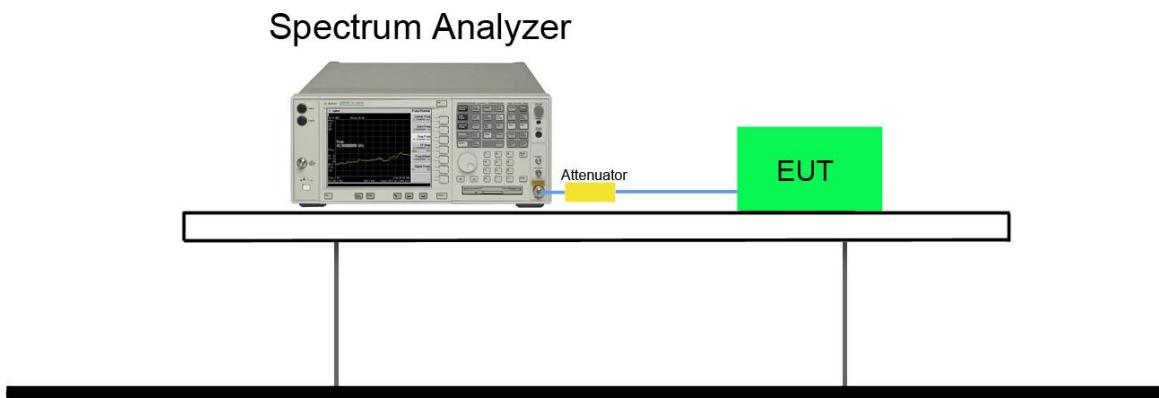
1. Set instrument center frequency to DTS channel center frequency
2. Set the span to  $\geq$  1.5 times the DTS bandwidth
3. Set the RBW = 100 kHz
4. Set the VBW  $\geq$  3 x RBW
5. Detector = peak
6. Sweep time = auto couple
7. Trace mode = max hold
8. Allow trace to fully stabilize

#### **Emission level measurement**

1. Set the center frequency and span to encompass frequency range to be measured
2. RBW = 100kHz
3. VBW = 300kHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

**Test Notes**

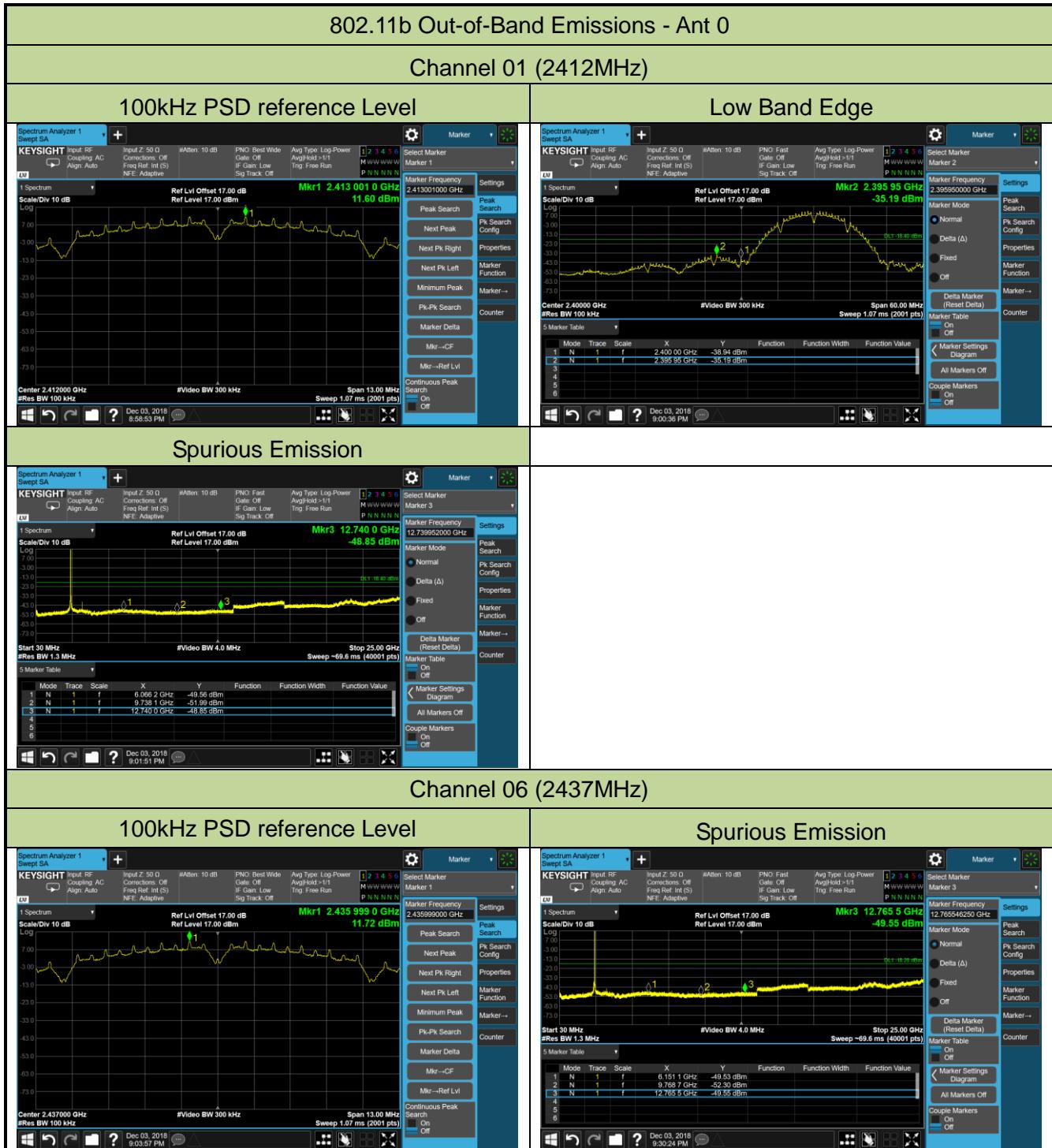
1. RBW was set to 1.3MHz rather than 100 kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100 kHz bandwidth. However, since the traces in the following plots are measured with a 1.3MHzRBW, the display line may not necessarily appear to be 30dB below the level of the fundamental in a 1.3MHzbandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

**7.5.4. Test Setup**

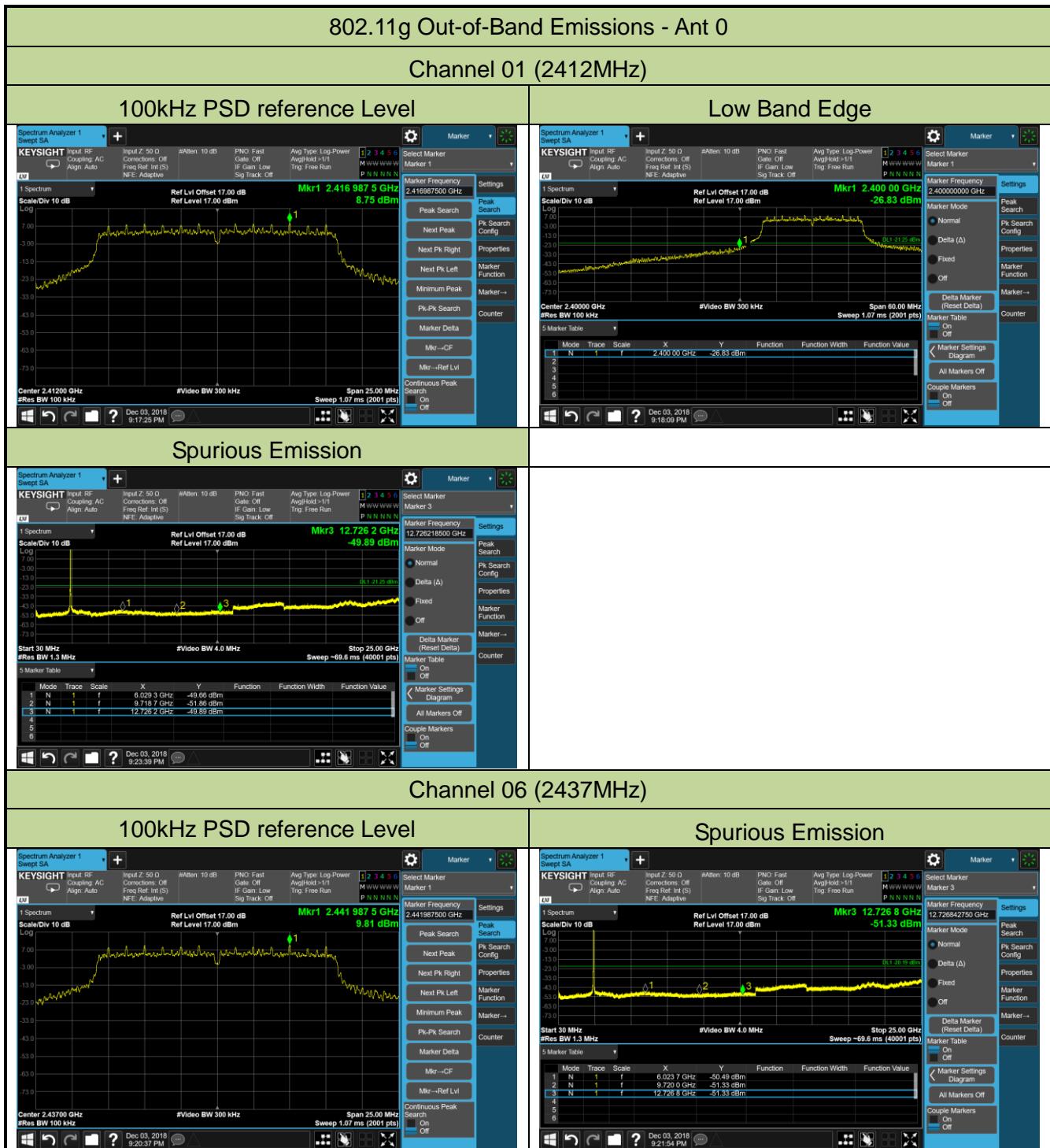
### 7.5.5. Test Result

Product	7Signal Sapphire Eye	Temperature	23°C
Test Engineer	Dandy Li	Relative Humidity	52%
Test Site	TR3	Test Date	2018/12/03
Test Item	Conducted Band Edge and Out-of-Band Emissions		

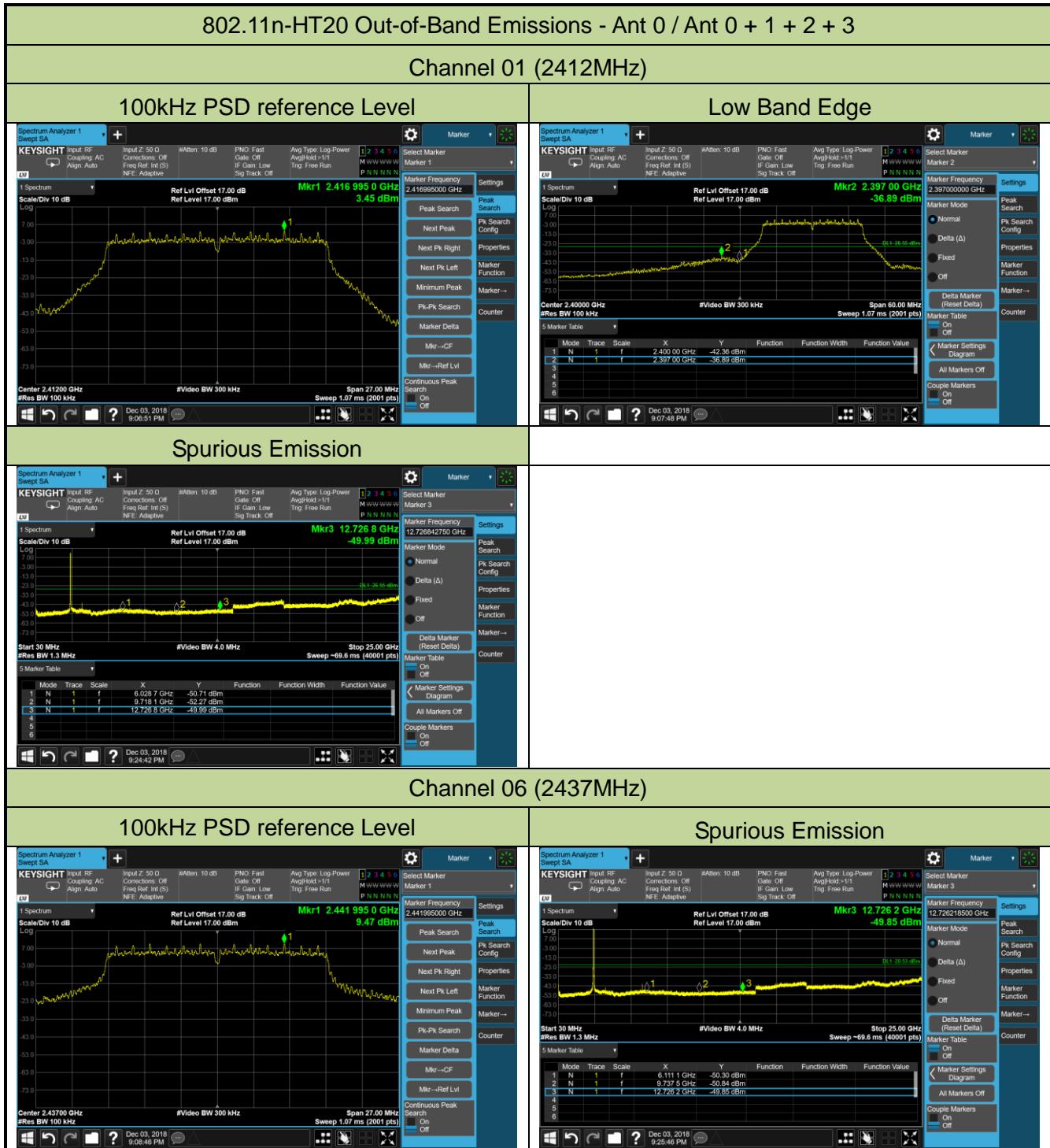
Test Mode	Data Rate (Mbps)	Channel No.	Frequency (MHz)	Limit	Result
Ant 0					
802.11b	1Mbps	01	2412	30dBc	Pass
802.11b	1Mbps	06	2437	30dBc	Pass
802.11b	1Mbps	11	2462	30dBc	Pass
802.11g	6Mbps	01	2412	30dBc	Pass
802.11g	6Mbps	06	2437	30dBc	Pass
802.11g	6Mbps	11	2462	30dBc	Pass
Ant 0 / Ant 0 + 1 + 2 + 3					
802.11n-HT20	MCS24	01	2412	30dBc	Pass
802.11n-HT20	MCS24	06	2437	30dBc	Pass
802.11n-HT20	MCS24	11	2462	30dBc	Pass
802.11n-HT40	MCS24	03	2422	30dBc	Pass
802.11n-HT40	MCS24	06	2437	30dBc	Pass
802.11n-HT40	MCS24	09	2452	30dBc	Pass

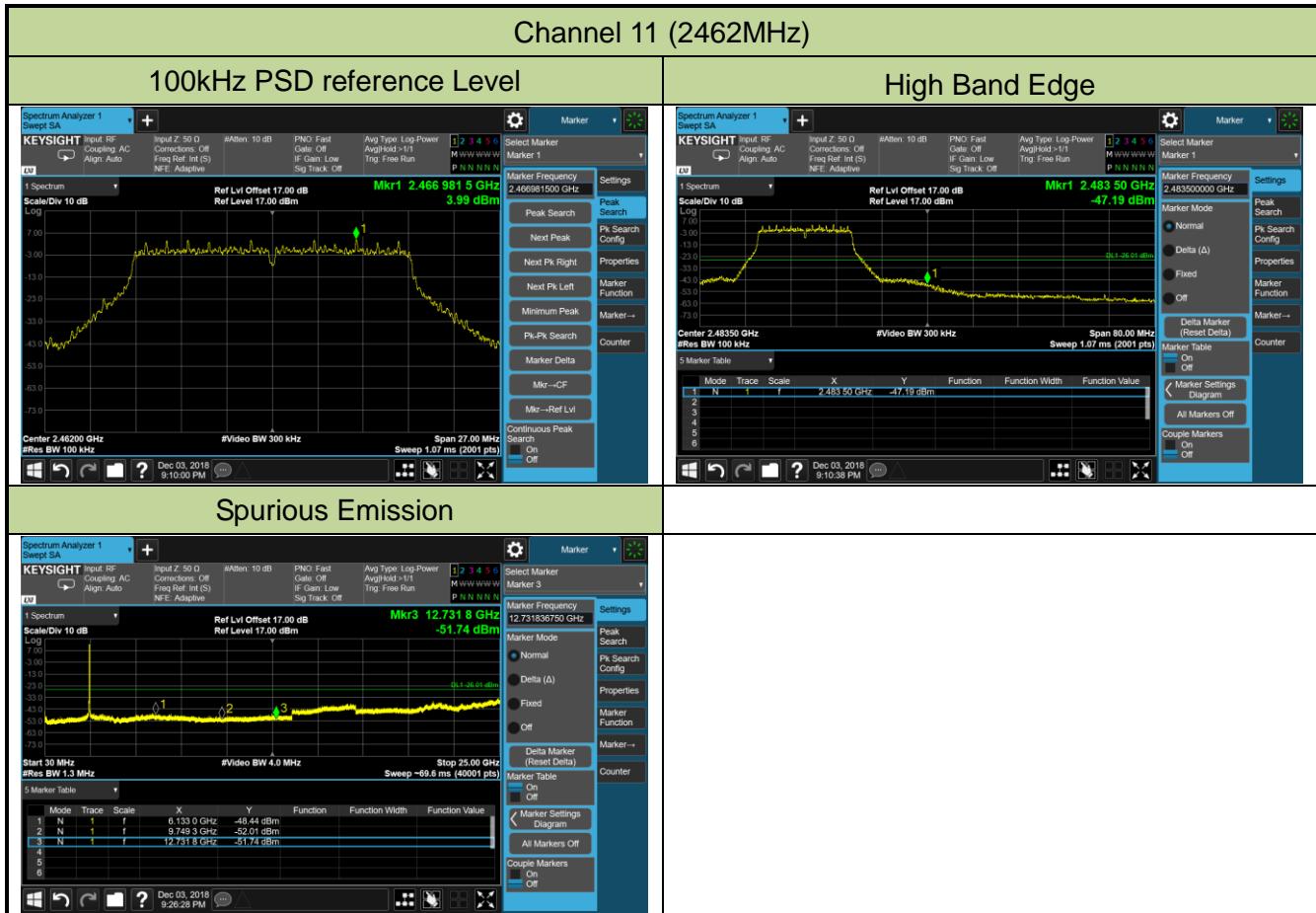


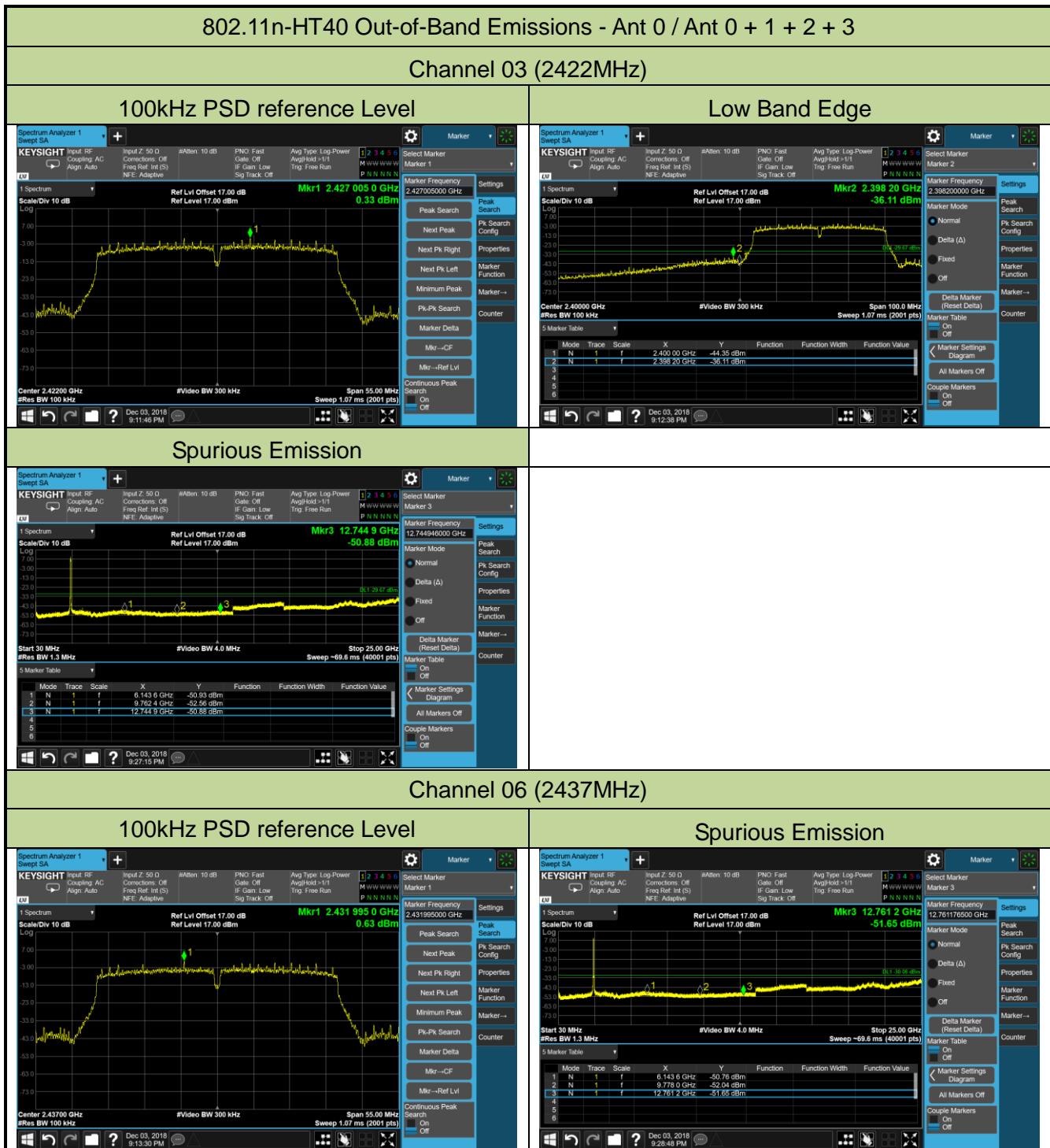














## 7.6. Radiated Spurious Emission Measurement

### 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

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)

### 7.6.3. Test Setting

#### Peak Field Strength Measurements

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**

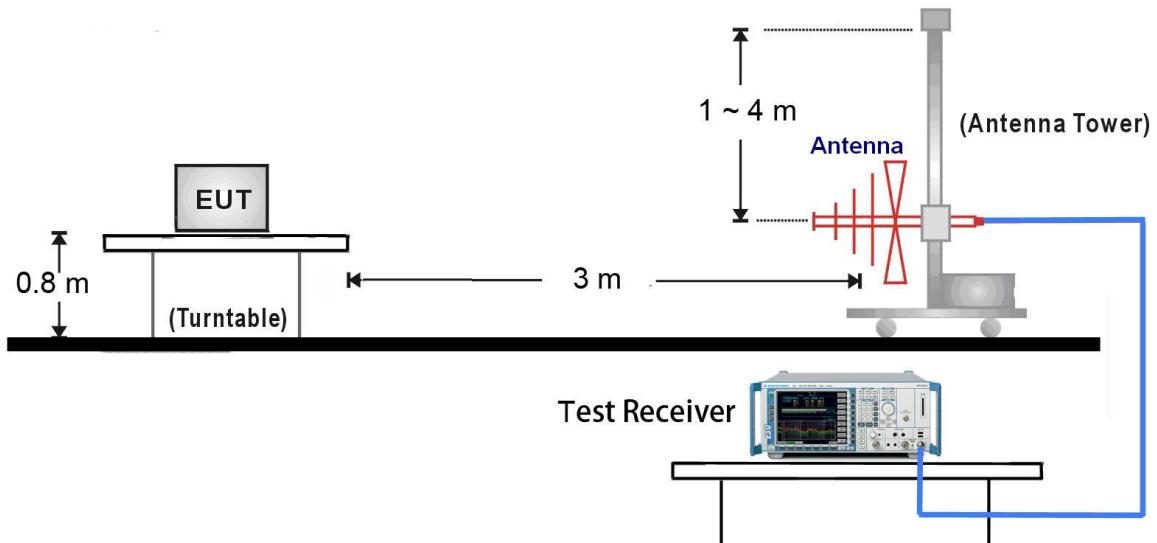
Frequency	RBW
9 ~ 150 kHz	200 ~ 300 Hz
0.15 ~ 30 MHz	9 ~ 10 kHz
30 ~ 1000 MHz	100 ~ 120 kHz
> 1000 MHz	1 MHz

**Average Field Strength Measurements**

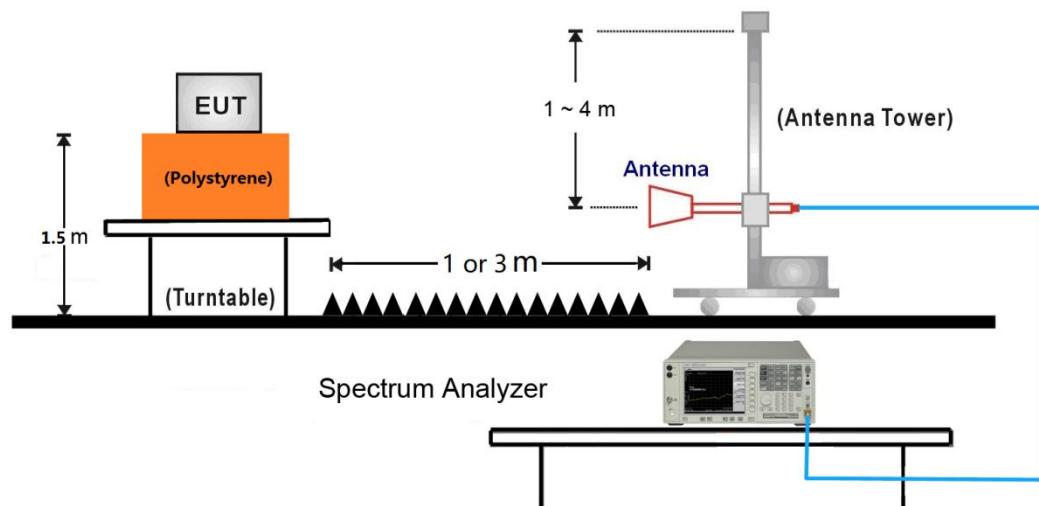
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW  $\geq 1/T$
4. De As an alternative, the instrument may be set to linear detector mode. Ensure that video filtering is applied in linear voltage domain (rather than in a log or dB 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

Below 1GHz Test Setup:



Above 1GHz Test Setup:



### 7.6.5. Test Result

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 0	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7120.0	36.0	12.2	48.2	79.0	-30.8	Peak	Horizontal
*	10044.0	35.7	16.7	52.4	79.0	-26.6	Peak	Horizontal
	10928.0	33.3	18.2	51.5	74.0	-22.5	Peak	Horizontal
	11982.0	35.4	17.4	52.8	74.0	-21.2	Peak	Horizontal
*	7043.5	35.1	11.7	46.8	79.0	-32.2	Peak	Vertical
*	9865.5	33.8	16.7	50.5	79.0	-28.5	Peak	Vertical
	10868.5	35.3	18.1	53.4	74.0	-20.6	Peak	Vertical
	12254.0	35.6	17.4	53.0	74.0	-21.0	Peak	Vertical

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (109.0dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 0	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7094.5	36.5	12.0	48.5	78.3	-29.8	Peak	Horizontal
*	9746.5	36.7	16.1	52.8	78.3	-25.5	Peak	Horizontal
	10868.5	36.2	18.1	54.3	74.0	-19.7	Peak	Horizontal
	10868.5	26.8	18.1	44.9	54.0	-9.1	Average	Horizontal
	11463.5	36.3	17.8	54.1	74.0	-19.9	Peak	Horizontal
	11463.5	25.1	17.8	42.9	54.0	-11.1	Average	Horizontal
*	7009.5	35.3	11.3	46.6	78.3	-31.7	Peak	Vertical
*	9933.5	35.3	16.7	52.0	78.3	-26.3	Peak	Vertical
	10834.5	35.6	18.0	53.6	74.0	-20.4	Peak	Vertical
	11412.5	37.2	17.7	54.9	74.0	-19.1	Peak	Vertical
	11412.5	27.8	17.7	45.5	54.0	-8.5	Average	Vertical

Note 1: \*\* is not in restricted band, its limit is 30dBc of the fundamental emission level (108.3dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 0	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7120.0	36.6	12.2	48.8	77.5	-28.7	Peak	Horizontal
*	9848.5	37.8	16.7	54.5	77.5	-23.0	Peak	Horizontal
	10800.5	35.0	18.0	53.0	74.0	-21.0	Peak	Horizontal
	11650.5	36.2	17.6	53.8	74.0	-20.2	Peak	Horizontal
	11650.5	27.1	17.6	44.7	54.0	-9.3	Average	Horizontal
*	7043.5	36.3	11.7	48.0	77.5	-29.5	Peak	Horizontal
*	9755.0	35.2	16.2	51.4	77.5	-26.1	Peak	Vertical
	11387.0	35.4	17.6	53.0	74.0	-21.0	Peak	Vertical
	11829.0	35.1	17.2	52.3	74.0	-21.7	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (107.5dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 1	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7137.0	36.4	12.4	48.8	74.3	-25.5	Peak	Horizontal
*	9644.5	37.9	15.5	53.4	74.3	-20.9	Peak	Horizontal
	11098.0	35.6	17.8	53.4	74.0	-20.6	Peak	Horizontal
	12007.5	34.9	17.4	52.3	74.0	-21.7	Peak	Horizontal
*	7188.0	36.1	12.5	48.6	74.3	-25.7	Peak	Vertical
*	9644.5	38.6	15.5	54.1	74.3	-20.2	Peak	Vertical
	10605.0	34.5	17.6	52.1	74.0	-21.9	Peak	Vertical
	11786.5	36.0	17.3	53.3	74.0	-20.7	Peak	Vertical

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (104.3dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 1	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7188.0	36.4	12.5	48.9	76.5	-27.6	Peak	Horizontal
*	9746.5	40.7	16.1	56.8	76.5	-19.7	Peak	Horizontal
	11370.0	35.4	17.6	53.0	74.0	-21.0	Peak	Horizontal
	12245.5	36.4	17.4	53.8	74.0	-20.2	Peak	Horizontal
	12245.5	28.1	17.4	45.5	54.0	-8.5	Average	Horizontal
*	6873.5	36.9	10.6	47.5	76.5	-29.0	Peak	Vertical
*	9746.5	38.1	16.1	54.2	76.5	-22.3	Peak	Vertical
	11106.5	35.4	17.8	53.2	74.0	-20.8	Peak	Vertical
	12126.5	35.8	17.5	53.3	74.0	-20.7	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (106.5dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 1	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7171.0	36.0	12.5	48.5	80.1	-31.6	Peak	Horizontal
*	9848.5	39.0	16.7	55.7	80.1	-24.4	Peak	Horizontal
	11089.5	35.5	17.8	53.3	74.0	-20.7	Peak	Horizontal
	12245.5	34.9	17.4	52.3	74.0	-21.7	Peak	Horizontal
*	7120.0	35.8	12.2	48.0	80.1	-32.1	Peak	Vertical
*	9848.5	36.9	16.7	53.6	80.1	-26.5	Peak	Vertical
	11276.5	35.1	17.5	52.6	74.0	-21.4	Peak	Vertical
	11922.5	35.3	17.3	52.6	74.0	-21.4	Peak	Vertical

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (110.1dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 2	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7103.0	36.0	12.1	48.1	75.9	-27.8	Peak	Horizontal
*	9644.5	42.6	15.5	58.1	75.9	-17.8	Peak	Horizontal
	10860.0	36.2	18.1	54.3	74.0	-19.7	Peak	Horizontal
	10860.0	27.1	18.1	45.2	54.0	-8.8	Average	Horizontal
	11735.5	35.7	17.3	53.0	74.0	-21.0	Peak	Horizontal
*	7103.0	36.0	12.1	48.1	75.9	-27.8	Peak	Vertical
*	9644.5	42.6	15.5	58.1	75.9	-17.8	Peak	Vertical
	10860.0	36.2	18.1	54.3	74.0	-19.7	Peak	Vertical
	10860.0	25.4	18.1	43.5	54.0	-10.5	Average	Vertical
	11735.5	35.7	17.3	53.0	74.0	-21.0	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (105.9dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 2	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	6797.0	36.8	10.3	47.1	74.2	-27.1	Peak	Horizontal
*	9746.5	46.0	16.1	62.1	74.2	-12.1	Peak	Horizontal
	11480.5	35.7	17.8	53.5	74.0	-20.5	Peak	Horizontal
	12007.5	34.4	17.4	51.8	74.0	-22.2	Peak	Horizontal
*	7137.0	35.7	12.4	48.1	74.2	-26.1	Peak	Vertical
*	9746.5	42.5	16.1	58.6	74.2	-15.6	Peak	Vertical
	10800.5	35.6	18.0	53.6	74.0	-20.4	Peak	Vertical
	10800.5	25.8	18.0	43.8	54.0	-10.2	Average	Vertical
	11616.5	35.9	17.6	53.5	74.0	-20.5	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (104.2dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 2	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	6448.5	37.8	9.7	47.5	77.3	-29.8	Peak	Horizontal
*	9848.5	45.7	16.7	62.4	77.3	-14.9	Peak	Horizontal
	11378.5	34.5	17.6	52.1	74.0	-21.9	Peak	Horizontal
	12143.5	34.9	17.5	52.4	74.0	-21.6	Peak	Horizontal
*	6593.0	36.6	10.2	46.8	77.3	-30.5	Peak	Vertical
*	6814.0	37.1	10.4	47.5	77.3	-29.8	Peak	Vertical
	7383.5	39.3	12.6	51.9	74.0	-22.1	Peak	Vertical
	10860.0	35.8	18.1	53.9	74.0	-20.1	Peak	Vertical
	10860.0	24.1	18.1	42.2	54.0	-11.8	Average	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (107.3dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 3	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7154.0	36.3	12.4	48.7	80.8	-32.1	Peak	Horizontal
*	9644.5	38.1	15.5	53.6	80.8	-27.2	Peak	Horizontal
	10851.5	35.9	18.1	54.0	74.0	-20.0	Peak	Horizontal
	11421.0	36.3	17.8	54.1	74.0	-19.9	Peak	Horizontal
	11421.0	26.8	17.8	44.6	54.0	-9.4	Average	Horizontal
*	7196.5	36.0	12.5	48.5	80.8	-32.3	Peak	Vertical
*	9644.5	37.8	15.5	53.3	80.8	-27.5	Peak	Vertical
	11421.0	35.8	17.8	53.6	74.0	-20.4	Peak	Vertical
	11421.0	26.6	17.8	44.4	54.0	-9.6	Average	Vertical
	12390.0	36.3	17.2	53.5	74.0	-20.5	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (110.8dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 3	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7052.0	36.6	11.8	48.4	81.0	-32.6	Peak	Horizontal
*	9746.5	40.2	16.1	56.3	81.0	-24.7	Peak	Horizontal
	10758.0	35.6	17.8	53.4	74.0	-20.6	Peak	Horizontal
	11684.5	36.1	17.5	53.6	74.0	-20.4	Peak	Horizontal
	11684.5	27.3	17.5	44.8	54.0	-9.2	Average	Horizontal
*	7179.5	37.0	12.5	49.5	81.0	-31.5	Peak	Vertical
*	9746.5	38.2	16.1	54.3	81.0	-26.7	Peak	Vertical
	10860.0	35.3	18.1	53.4	74.0	-20.6	Peak	Vertical
	11684.5	35.7	17.5	53.2	74.0	-20.8	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (111.0B $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11b - Ant 3	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7154.0	36.7	12.4	49.1	81.4	-32.3	Peak	Horizontal
*	9848.5	37.9	16.7	54.6	81.4	-26.8	Peak	Horizontal
	10851.5	36.4	18.1	54.5	74.0	-19.5	Peak	Horizontal
	10851.5	25.2	18.1	43.3	54.0	-10.7	Average	Horizontal
	11608.0	35.7	17.6	53.3	74.0	-20.7	Peak	Horizontal
*	7043.5	36.4	11.7	48.1	81.4	-33.3	Peak	Vertical
*	10010.0	35.9	16.6	52.5	81.4	-28.9	Peak	Vertical
	10868.5	35.4	18.1	53.5	74.0	-20.5	Peak	Vertical
	11999.0	35.2	17.4	52.6	74.0	-21.4	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (111.4dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 0	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7111.5	36.2	12.2	48.4	80.2	-31.8	Peak	Horizontal
*	10375.5	34.6	17.4	52.0	80.2	-28.2	Peak	Horizontal
	11106.5	35.5	17.8	53.3	74.0	-20.7	Peak	Horizontal
	12271.0	35.4	17.4	52.8	74.0	-21.2	Peak	Horizontal
*	8913.5	36.2	13.3	49.5	80.2	-30.7	Peak	Vertical
*	10265.0	34.2	17.2	51.4	80.2	-28.8	Peak	Vertical
	10868.5	35.5	18.1	53.6	74.0	-20.4	Peak	Vertical
	10868.5	26.3	18.1	44.4	54.0	-9.6	Average	Vertical
	11608.0	35.4	17.6	53.0	74.0	-21.0	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (110.2dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 0	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	6431.5	37.0	9.5	46.5	79.4	-32.9	Peak	Horizontal
*	10307.5	34.4	17.3	51.7	79.4	-27.7	Peak	Horizontal
	11446.5	35.3	17.8	53.1	74.0	-20.9	Peak	Horizontal
	12160.5	34.8	17.5	52.3	74.0	-21.7	Peak	Horizontal
*	6253.0	36.8	8.7	45.5	79.4	-33.9	Peak	Vertical
*	6924.5	36.0	11.0	47.0	79.4	-32.4	Peak	Vertical
	8310.0	34.9	12.6	47.5	74.0	-26.5	Peak	Vertical
	10741.0	34.7	17.8	52.5	74.0	-21.5	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (109.4dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 0	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	6423.0	38.1	9.4	47.5	78.9	-31.4	Peak	Horizontal
*	9848.5	34.4	16.7	51.1	78.9	-27.8	Peak	Horizontal
	10834.5	35.8	18.0	53.8	74.0	-20.2	Peak	Horizontal
	10834.5	25.4	18.0	43.4	54.0	-10.6	Average	Horizontal
	12237.0	35.2	17.4	52.6	74.0	-21.4	Peak	Horizontal
*	7077.5	34.9	11.9	46.8	78.9	-32.1	Peak	Vertical
*	9933.5	34.4	16.7	51.1	78.9	-27.8	Peak	Vertical
	10860.0	35.1	18.1	53.2	74.0	-20.8	Peak	Vertical
	12466.5	36.2	17.3	53.5	74.0	-20.5	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (108.9dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 1	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7086.0	37.0	11.9	48.9	77.6	-28.7	Peak	Horizontal
*	9942.0	34.4	16.8	51.2	77.6	-26.4	Peak	Horizontal
	10928.0	35.1	18.2	53.3	74.0	-20.7	Peak	Horizontal
	11939.5	35.6	17.3	52.9	74.0	-21.1	Peak	Horizontal
*	7111.5	34.8	12.2	47.0	77.6	-30.6	Peak	Vertical
*	9721.0	33.2	15.7	48.9	77.6	-28.7	Peak	Vertical
	10826.0	35.4	18.0	53.4	74.0	-20.6	Peak	Vertical
	11667.5	35.7	17.6	53.3	74.0	-20.7	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (107.6dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 1	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	6372.0	38.3	9.1	47.4	78.5	-31.1	Peak	Horizontal
*	10112.0	35.9	16.9	52.8	78.5	-25.7	Peak	Horizontal
	11098.0	35.8	17.8	53.6	74.0	-20.4	Peak	Horizontal
	11098.0	25.9	17.8	43.7	54.0	-10.3	Average	Horizontal
	11608.0	35.9	17.6	53.5	74.0	-20.5	Peak	Horizontal
*	7060.5	35.6	11.8	47.4	78.5	-31.1	Peak	Vertical
*	10486.0	34.2	17.5	51.7	78.5	-26.8	Peak	Vertical
	11599.5	35.4	17.6	53.0	74.0	-21.0	Peak	Vertical
	12050.0	34.9	17.4	52.3	74.0	-21.7	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (108.5dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 1	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7120.0	35.9	12.2	48.1	78.8	-30.7	Peak	Horizontal
*	9857.0	35.6	16.7	52.3	78.8	-26.5	Peak	Horizontal
	10834.5	34.9	18.0	52.9	74.0	-21.1	Peak	Horizontal
	11735.5	35.0	17.3	52.3	74.0	-21.7	Peak	Horizontal
*	7145.5	35.7	12.4	48.1	78.8	-30.7	Peak	Vertical
*	10350.0	34.2	17.3	51.5	78.8	-27.3	Peak	Vertical
	10817.5	35.3	18.0	53.3	74.0	-20.7	Peak	Vertical
	11531.5	33.6	17.8	51.4	74.0	-22.6	Peak	Vertical

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (108.8dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 2	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7171.0	36.1	12.5	48.6	77.3	-28.7	Peak	Horizontal
*	9644.5	39.8	15.5	55.3	77.3	-22.0	Peak	Horizontal
	11421.0	34.8	17.8	52.6	74.0	-21.4	Peak	Horizontal
	12050.0	34.9	17.4	52.3	74.0	-21.7	Peak	Horizontal
*	6933.0	36.2	11.1	47.3	77.3	-30.0	Peak	Vertical
*	8675.5	35.7	13.0	48.7	77.3	-28.6	Peak	Vertical
	10902.5	34.8	18.1	52.9	74.0	-21.1	Peak	Vertical
	11285.0	36.3	17.5	53.8	74.0	-20.2	Peak	Vertical
	11285.0	24.9	17.5	42.4	54.0	-11.6	Average	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (107.3dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 2	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7077.5	36.2	11.9	48.1	78.3	-30.2	Peak	Horizontal
*	9738.0	38.6	15.9	54.5	78.3	-23.8	Peak	Horizontal
	11115.0	35.1	17.8	52.9	74.0	-21.1	Peak	Horizontal
	11761.0	35.9	17.3	53.2	74.0	-20.8	Peak	Horizontal
*	6644.0	34.8	10.1	44.9	78.3	-33.4	Peak	Vertical
*	9738.0	35.6	15.9	51.5	78.3	-26.8	Peak	Vertical
	10843.0	35.4	18.1	53.5	74.0	-20.5	Peak	Vertical
	11489.0	35.8	17.8	53.6	74.0	-20.4	Peak	Vertical
	11489.0	25.7	17.8	43.5	54.0	-10.5	Average	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (108.3dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 2	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7179.5	35.8	12.5	48.3	78.2	-29.9	Peak	Horizontal
*	9848.5	37.2	16.7	53.9	78.2	-24.3	Peak	Horizontal
	11344.5	35.0	17.6	52.6	74.0	-21.4	Peak	Horizontal
	12186.0	34.9	17.5	52.4	74.0	-21.6	Peak	Horizontal
*	7215.5	38.0	12.6	50.6	78.2	-27.6	Peak	Vertical
*	9814.5	33.9	16.4	50.3	78.2	-27.9	Peak	Vertical
	11072.5	35.2	17.9	53.1	74.0	-20.9	Peak	Vertical
	12322.0	35.3	17.3	52.6	74.0	-21.4	Peak	Vertical

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (108.2dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 3	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	6950.0	35.1	11.1	46.2	83.2	-37.0	Peak	Horizontal
*	10010.0	35.1	16.6	51.7	83.2	-31.5	Peak	Horizontal
	10919.5	34.8	18.2	53.0	74.0	-21.0	Peak	Horizontal
	11778.0	35.3	17.3	52.6	74.0	-21.4	Peak	Horizontal
*	6984.0	35.6	11.2	46.8	83.2	-36.4	Peak	Vertical
*	9678.5	34.2	15.4	49.6	83.2	-33.6	Peak	Vertical
	10919.5	35.3	18.2	53.5	74.0	-20.5	Peak	Vertical
	12007.5	35.0	17.4	52.4	74.0	-21.6	Peak	Vertical

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (113.2dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 3	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	6924.5	36.8	11.0	47.8	84.5	-36.7	Peak	Horizontal
*	9746.5	36.5	16.1	52.6	84.5	-31.9	Peak	Horizontal
	10945.0	35.4	18.3	53.7	74.0	-20.3	Peak	Horizontal
	10945.0	26.1	18.3	44.4	54.0	-9.6	Average	Horizontal
	12568.5	35.4	17.4	52.8	74.0	-21.2	Peak	Horizontal
*	6967.0	34.7	11.1	45.8	84.5	-38.7	Peak	Vertical
*	9746.5	34.9	16.1	51.0	84.5	-33.5	Peak	Vertical
	10928.0	35.2	18.2	53.4	74.0	-20.6	Peak	Vertical
	12177.5	34.9	17.5	52.4	74.0	-21.6	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (114.5dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11g - Ant 3	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	6448.5	37.7	9.7	47.4	80.5	-33.1	Peak	Horizontal
*	9840.0	35.4	16.7	52.1	80.5	-28.4	Peak	Horizontal
	10826.0	35.0	18.0	53.0	74.0	-21.0	Peak	Horizontal
	11642.0	34.9	17.6	52.5	74.0	-21.5	Peak	Horizontal
*	6839.5	37.0	10.5	47.5	80.5	-33.0	Peak	Vertical
*	10001.5	35.2	16.7	51.9	80.5	-28.6	Peak	Vertical
	10928.0	35.0	18.2	53.2	74.0	-20.8	Peak	Vertical
	12101.0	34.7	17.5	52.2	74.0	-21.8	Peak	Vertical

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (110.5dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11n-HT20 - Ant 0+1+2+3	Test Channel:	01
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	5981.0	37.3	7.9	45.2	81.5	-36.3	Peak	Horizontal
*	7018.0	37.5	11.5	49.0	81.5	-32.5	Peak	Horizontal
	8216.5	36.5	13.0	49.5	74.0	-24.5	Peak	Horizontal
	10885.5	35.7	18.1	53.8	74.0	-20.2	Peak	Horizontal
	10885.5	25.9	18.1	44.0	54.0	-10.0	Average	Horizontal
*	7120.0	35.1	12.2	47.3	81.5	-34.2	Peak	Vertical
*	9899.5	34.7	16.6	51.3	81.5	-30.2	Peak	Vertical
	10877.0	34.8	18.1	52.9	74.0	-21.1	Peak	Vertical
	11633.5	35.0	17.6	52.6	74.0	-21.4	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (111.5dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11n-HT20 - Ant 0+1+2+3	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	4425.5	36.2	4.6	40.8	81.3	-40.5	Peak	Horizontal
*	4493.5	36.5	4.7	41.2	81.3	-40.1	Peak	Horizontal
	4876.0	44.6	6.0	50.6	74.0	-23.4	Peak	Horizontal
	11412.5	35.2	17.7	52.9	74.0	-21.1	Peak	Horizontal
*	4442.5	35.7	4.6	40.3	81.3	-41.0	Peak	Horizontal
*	4459.5	36.4	4.6	41.0	81.3	-40.3	Peak	Vertical
	4876.0	45.7	6.0	51.7	74.0	-22.3	Peak	Vertical
	7315.5	37.4	12.6	50.0	74.0	-24.0	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (111.3dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11n-HT20 - Ant 0+1+2+3	Test Channel:	11
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	7154.0	36.2	12.4	48.6	83.3	-34.7	Peak	Horizontal
*	8769.0	35.7	13.2	48.9	83.3	-34.4	Peak	Horizontal
	10868.5	35.1	18.1	53.2	74.0	-20.8	Peak	Horizontal
	11999.0	35.5	17.4	52.9	74.0	-21.1	Peak	Horizontal
*	7094.5	37.4	12.0	49.4	83.3	-33.9	Peak	Vertical
*	9942.0	34.1	16.8	50.9	83.3	-32.4	Peak	Vertical
	10894.0	35.6	18.1	53.7	74.0	-20.3	Peak	Vertical
	10894.0	25.9	18.1	44.0	54.0	-10.0	Average	Vertical
	12126.5	35.9	17.5	53.4	74.0	-20.6	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (113.3dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11n-HT40 - Ant 0+1+2+3	Test Channel:	03
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	6542.0	37.3	10.1	47.4	78.0	-30.6	Peak	Horizontal
*	6890.5	37.4	10.7	48.1	78.0	-29.9	Peak	Horizontal
	7502.5	36.9	12.7	49.6	74.0	-24.4	Peak	Horizontal
	8182.5	36.1	13.2	49.3	74.0	-24.7	Peak	Horizontal
*	6134.0	35.7	8.2	43.9	78.0	-34.1	Peak	Vertical
*	6584.5	37.9	10.2	48.1	78.0	-29.9	Peak	Vertical
	7400.5	35.4	12.6	48.0	74.0	-26.0	Peak	Vertical
	8072.0	36.5	13.8	50.3	74.0	-23.7	Peak	Vertical

Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (108.0dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11n-HT40 - Ant 0+1+2+3	Test Channel:	06
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	5564.5	36.5	6.9	43.4	76.2	-32.8	Peak	Horizontal
*	6593.0	36.2	10.2	46.4	76.2	-29.8	Peak	Horizontal
	10775.0	36.0	17.9	53.9	74.0	-20.1	Peak	Horizontal
	11625.0	34.8	17.6	52.4	74.0	-21.6	Peak	Horizontal
*	7137.0	36.1	12.4	48.5	76.2	-27.7	Peak	Vertical
*	10299.0	35.1	17.3	52.4	76.2	-23.8	Peak	Vertical
	11106.5	36.6	17.8	54.4	74.0	-19.6	Peak	Vertical
	11106.5	26.1	17.8	43.9	54.0	-10.1	Average	Vertical
	12271.0	35.0	17.4	52.4	74.0	-21.6	Peak	Vertical

Note 1: “\*\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (106.2dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre\_Amplifier Gain (dB)

Product	7Signal Sapphire Eye	Temperature	26°C
Test Engineer	Bacon Dong	Relative Humidity	56%
Test Site	AC1	Test Date	2018/12/07
Test Mode:	802.11n-HT40 - Ant 0+1+2+3	Test Channel:	09
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Reading Level (dB $\mu$ V)	Factor (dB)	Measure Level (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector	Polarization
*	6338.0	39.0	9.0	48.0	75.9	-27.9	Peak	Horizontal
*	6567.5	37.1	10.2	47.3	75.9	-28.6	Peak	Horizontal
	7502.5	39.7	12.7	52.4	74.0	-21.6	Peak	Horizontal
	8369.5	36.6	12.6	49.2	74.0	-24.8	Peak	Horizontal
*	5811.0	35.7	7.6	43.3	75.9	-32.6	Peak	Vertical
*	6712.0	36.7	10.2	46.9	75.9	-29.0	Peak	Vertical
	7502.5	37.5	12.7	50.2	74.0	-23.8	Peak	Vertical
	8497.0	36.5	12.7	49.2	74.0	-24.8	Peak	Vertical

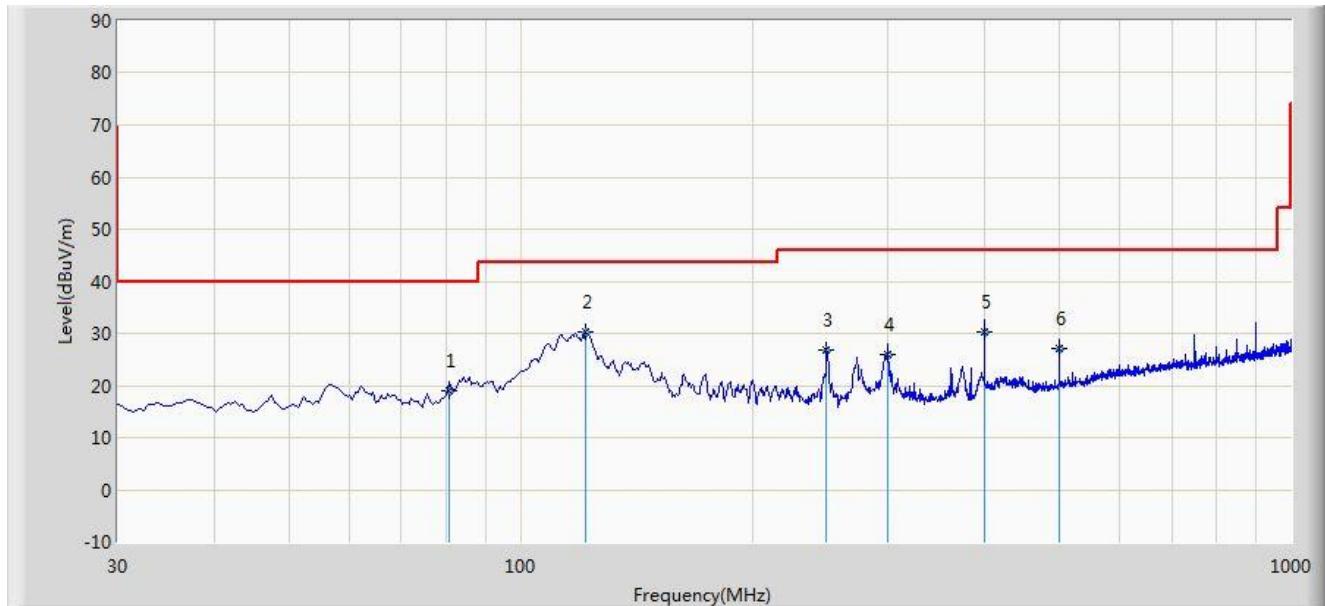
Note 1: “\*” is not in restricted band, its limit is 30dBc of the fundamental emission level (105.9dB $\mu$ V/m) or 15.209 which is higher.

Note 2: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + 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: 2018/12/29 - 02:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: VULB 9168 _20-2000MHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
<b>Worst Case Mode:</b> Transmit at Channel 2412MHz by 802.11n-HT20 Ant 0 + 1 + 2 + 3	



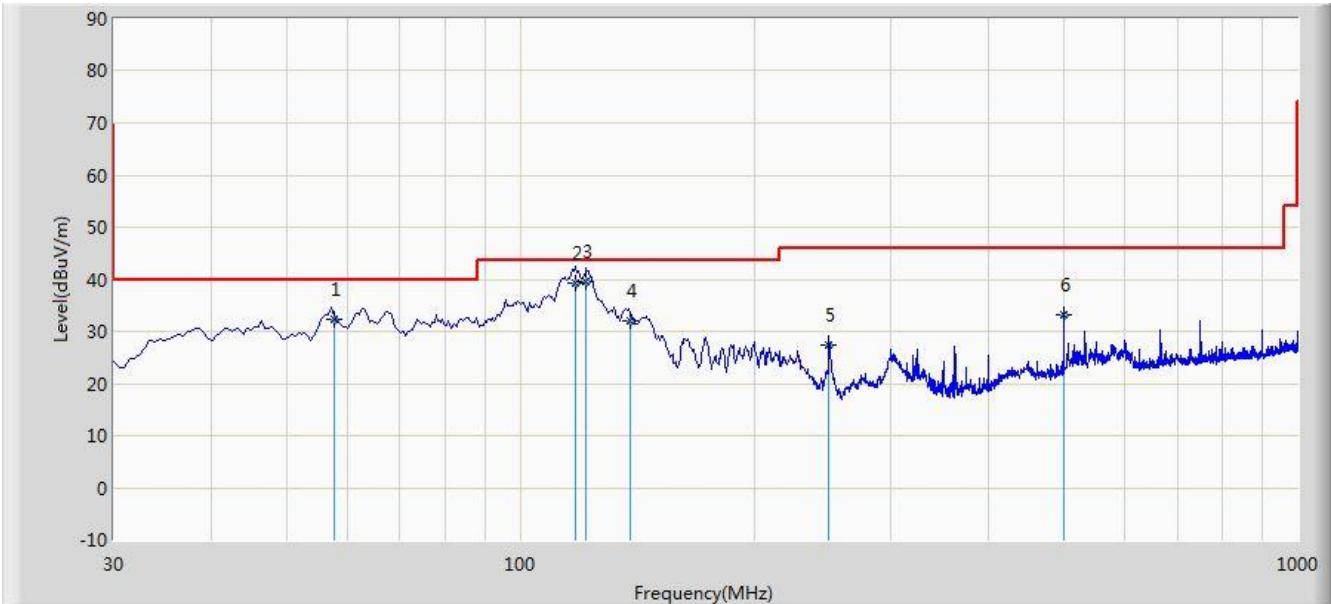
No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor	Type
1			80.920	18.901	8.748	-21.099	40.000	10.153	QP
2	*		121.658	30.187	16.845	-13.313	43.500	13.341	QP
3			249.625	26.862	13.847	-19.138	46.000	13.015	QP
4			299.905	26.019	11.625	-19.981	46.000	14.394	QP
5			400.050	30.211	13.625	-15.789	46.000	16.586	QP
6			499.950	27.195	8.626	-18.805	46.000	18.569	QP

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + 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 ~ 25GHz), therefore no data appear in the report.

Site: AC1	Time: 2018/12/29 - 02:33
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: VULB 9168 _20-2000MHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
<b>Worst Case Mode:</b> Transmit at Channel 2412MHz by 802.11n-HT20 Ant 0 + 1 + 2 + 3	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor	Type
1			57.626	32.260	18.624	-7.740	40.000	13.636	QP
2			117.758	39.228	26.245	-4.272	43.500	12.983	QP
3		*	121.326	39.648	26.326	-3.852	43.500	13.322	QP
4			138.626	32.113	17.625	-11.387	43.500	14.487	QP
5			249.326	27.334	14.323	-18.666	46.000	13.011	QP
6			499.626	33.190	14.626	-12.810	46.000	18.563	QP

Note 1: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + 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 ~ 25GHz), therefore no data appear in the report.

## 7.7. Radiated Restricted Band Edge Measurement

### 7.7.1. Test Limit

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
<sup>1</sup> 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	( <sup>2</sup> )
13.36 - 13.41	--	--	--

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

#### 7.7.2. Test Procedure Used

ANSI C63.10 Section 6.3 (General Requirements)

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

#### 7.7.3. Test Setting

##### Peak Field Strength Measurements

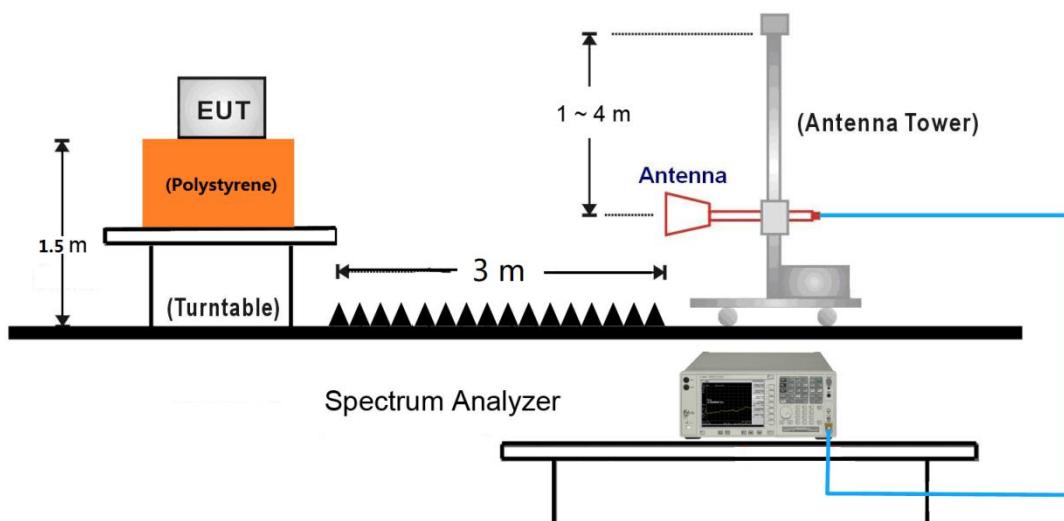
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

### **Average Field Strength Measurements**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW  $\geq 1/T$
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

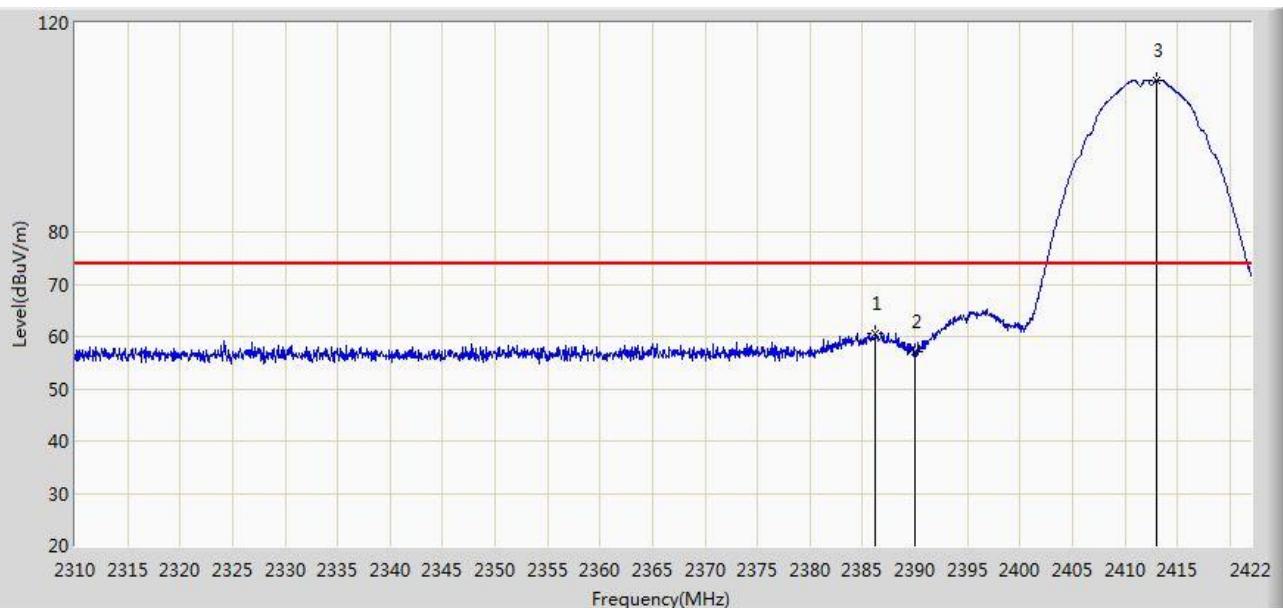
Allow max hold to run for at least 50 times (1/duty cycle) traces

#### **7.7.4. Test Setup**



### 7.7.5. Test Result

Site: AC1	Time: 2018/12/06 - 10:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 0	

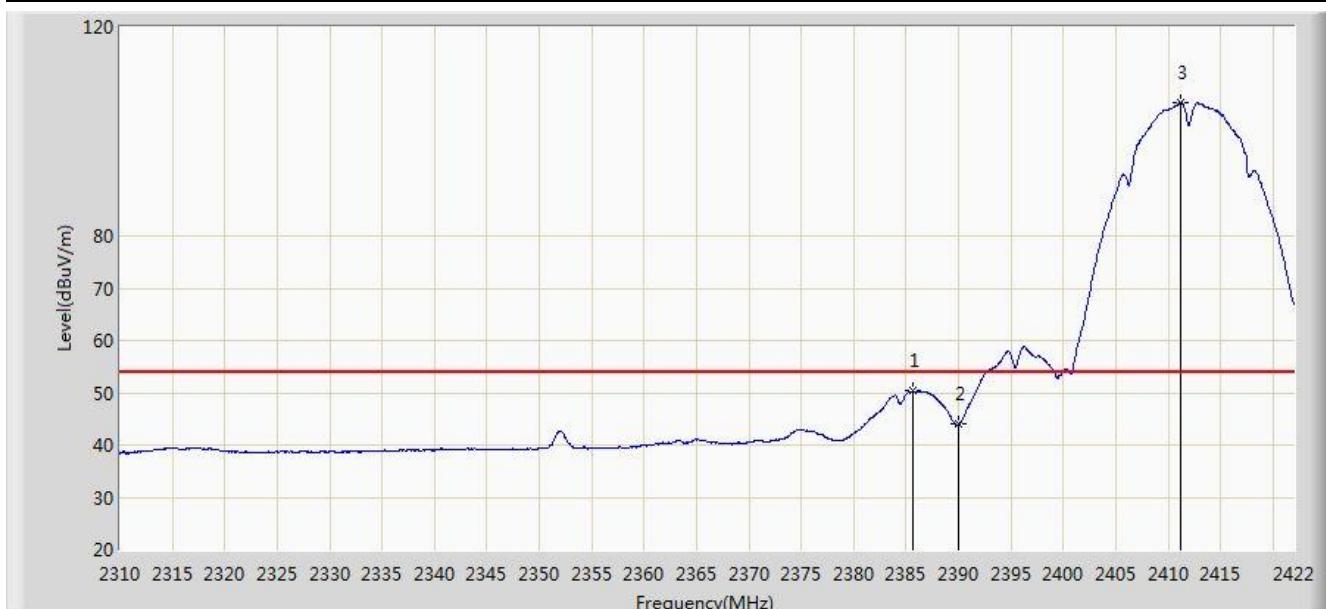


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.216	60.558	28.226	-13.442	74.000	32.332	PK
2			2390.000	57.011	24.684	-16.989	74.000	32.327	PK
3		*	2412.984	109.044	76.760	N/A	N/A	32.285	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:40
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 0	

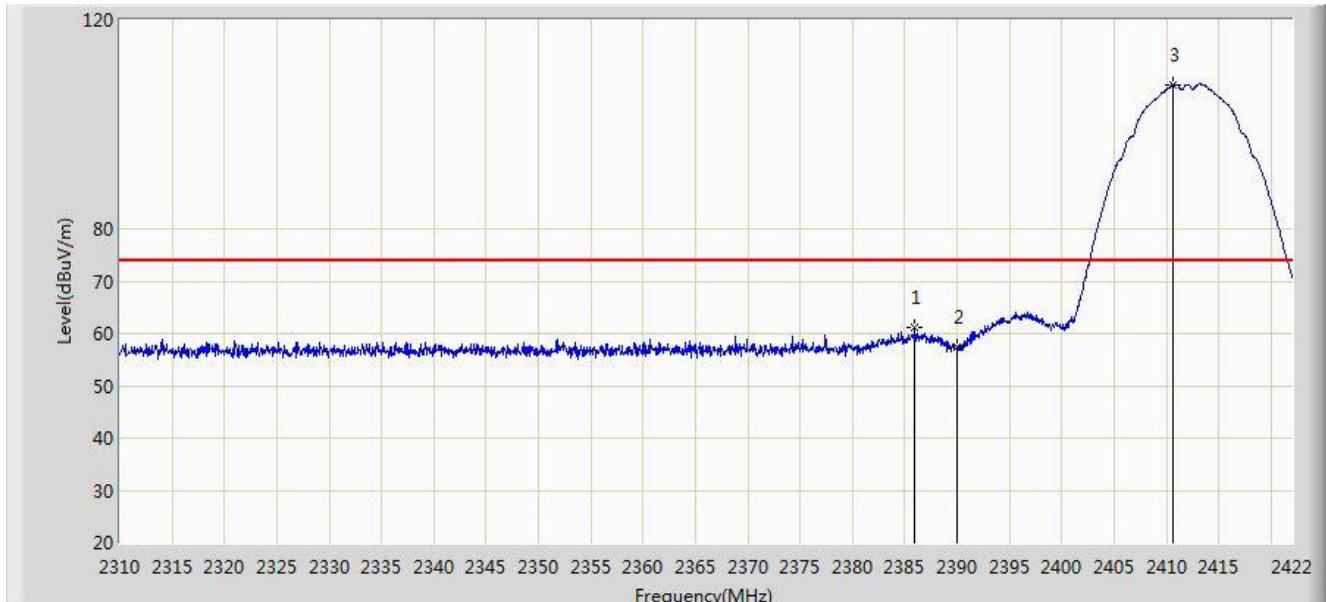


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.600	50.290	17.957	-3.710	54.000	32.333	AV
2			2390.000	43.976	11.649	-10.024	54.000	32.327	AV
3		*	2411.192	105.622	73.337	N/A	N/A	32.285	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:42
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 0	

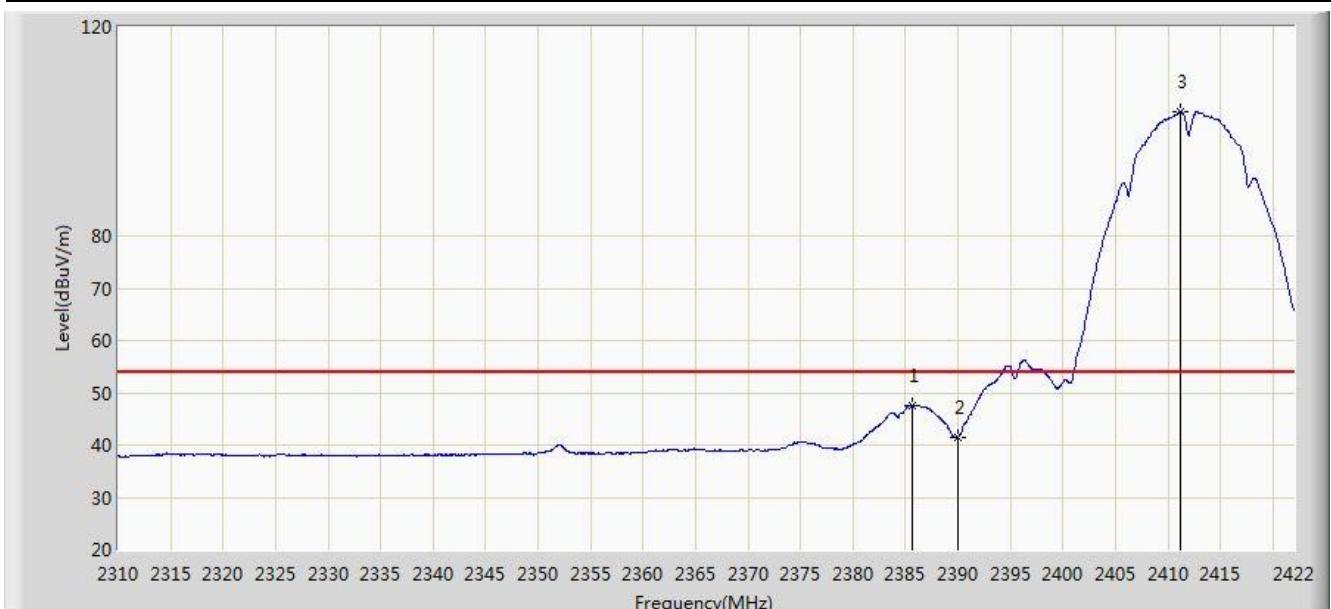


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			2385.992	61.017	28.685	-12.983	74.000	32.332	PK
2			2390.000	57.340	25.013	-16.660	74.000	32.327	PK
3		*	2410.576	107.449	75.163	N/A	N/A	32.286	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:43
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 0	

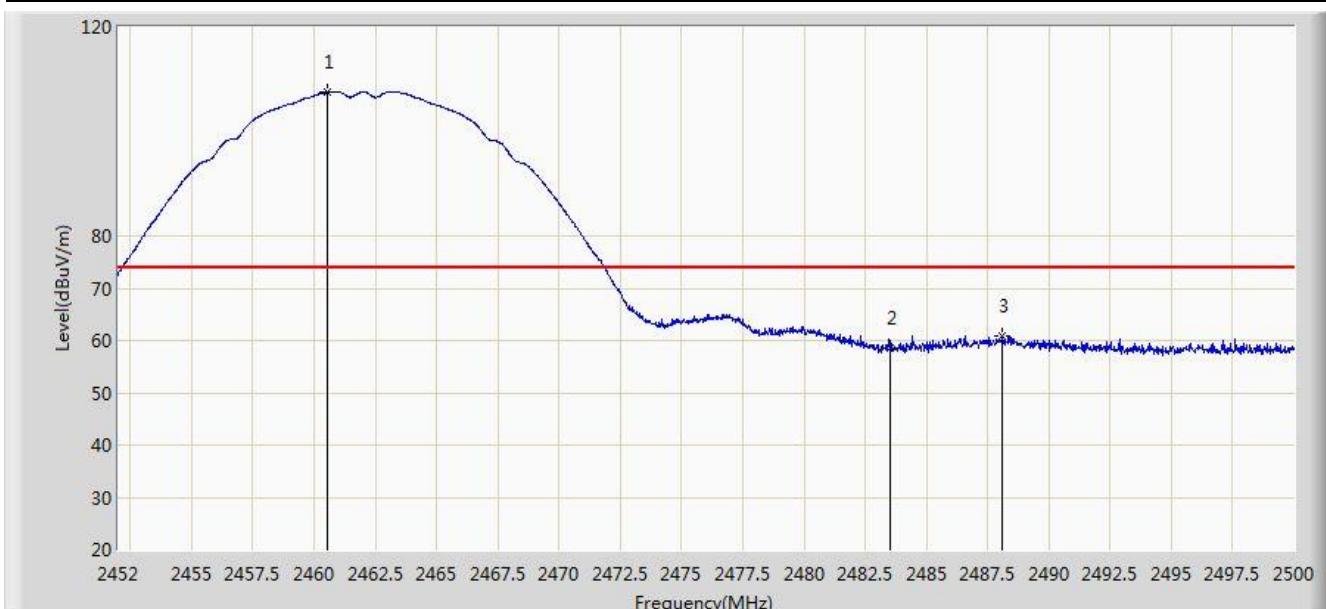


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.712	47.598	15.265	-6.402	54.000	32.333	AV
2			2390.000	41.544	9.217	-12.456	54.000	32.327	AV
3		*	2411.136	103.767	71.482	N/A	N/A	32.285	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 20:41
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 0	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.568	107.513	75.236	N/A	N/A	32.277	PK
2			2483.500	58.672	26.333	-15.328	74.000	32.340	PK
3			2488.120	60.933	28.576	-13.067	74.000	32.357	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 20:47
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 0	

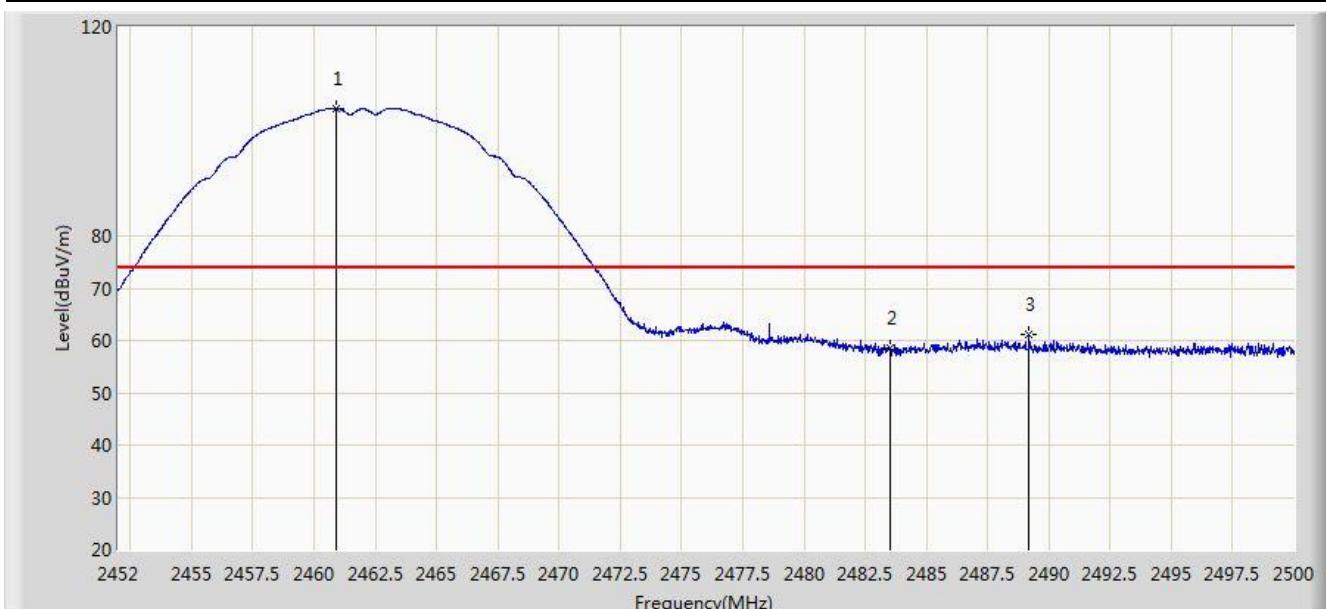


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.312	104.139	71.860	N/A	N/A	32.279	AV
2			2483.500	41.465	9.126	-12.535	54.000	32.340	AV
3			2488.840	46.609	14.249	-7.391	54.000	32.360	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 20:49
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 0	

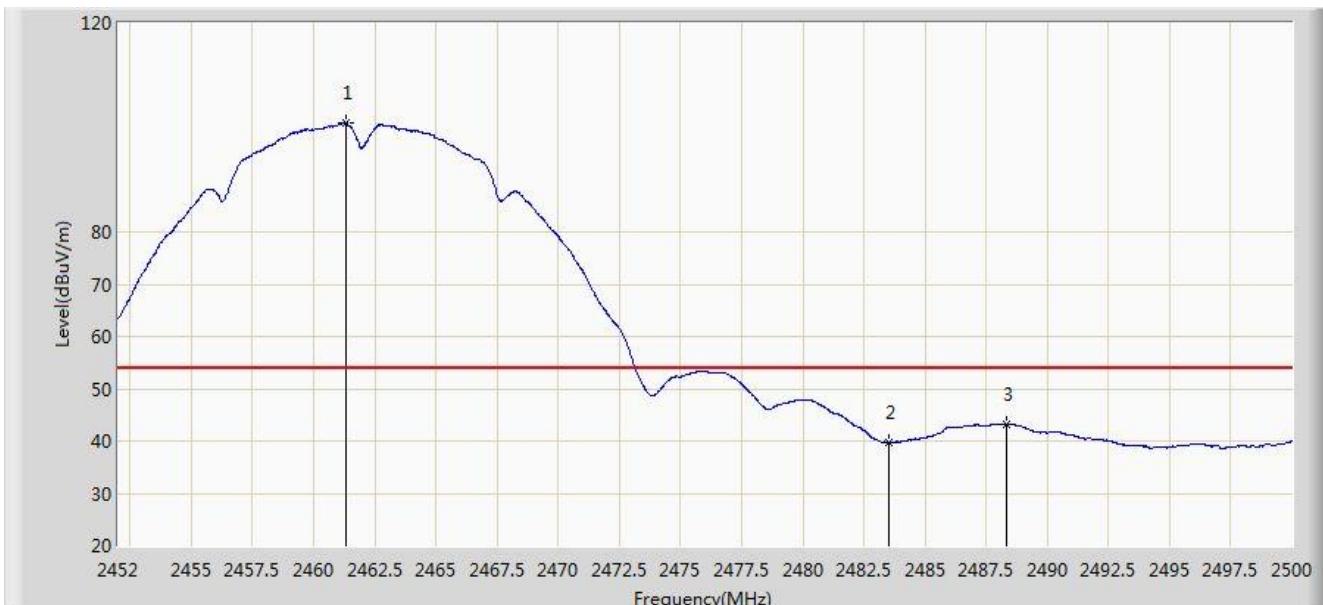


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.928	104.387	72.109	N/A	N/A	32.278	PK
			2483.500	58.440	26.101	-15.560	74.000	32.340	PK
			2489.200	61.298	28.936	-12.702	74.000	32.362	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 20:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 0	

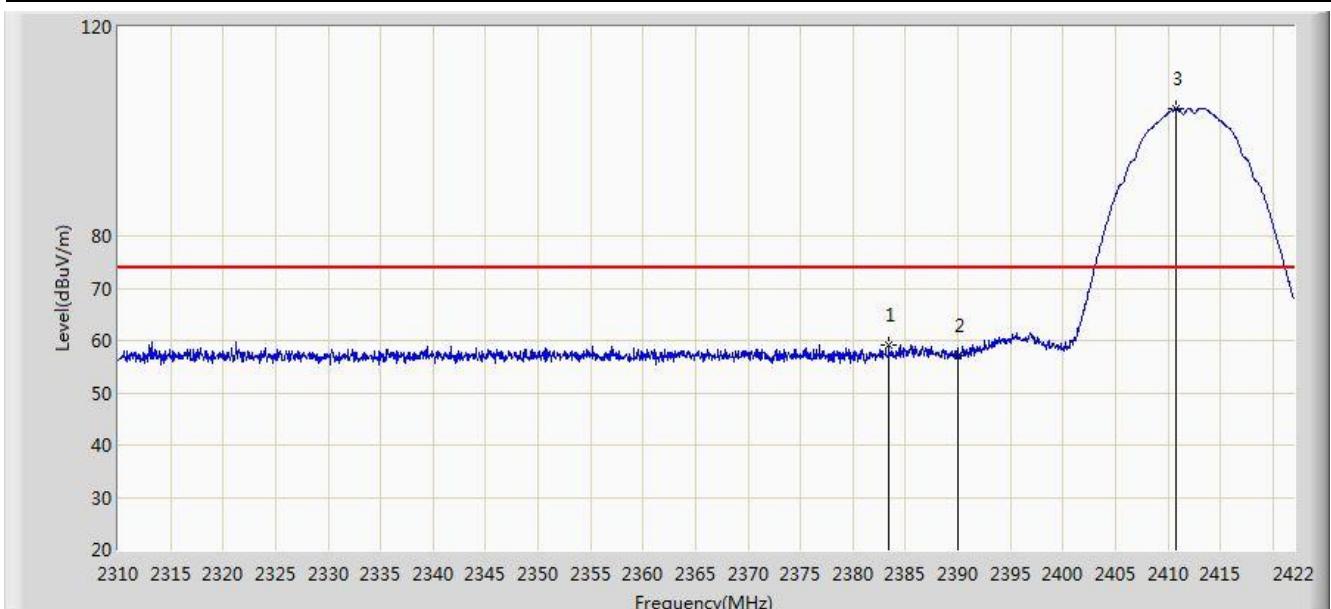


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.312	100.750	68.471	N/A	N/A	32.279	AV
2			2483.500	39.835	7.496	-14.165	54.000	32.340	AV
3			2488.336	43.279	10.921	-10.721	54.000	32.358	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:45
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 1	

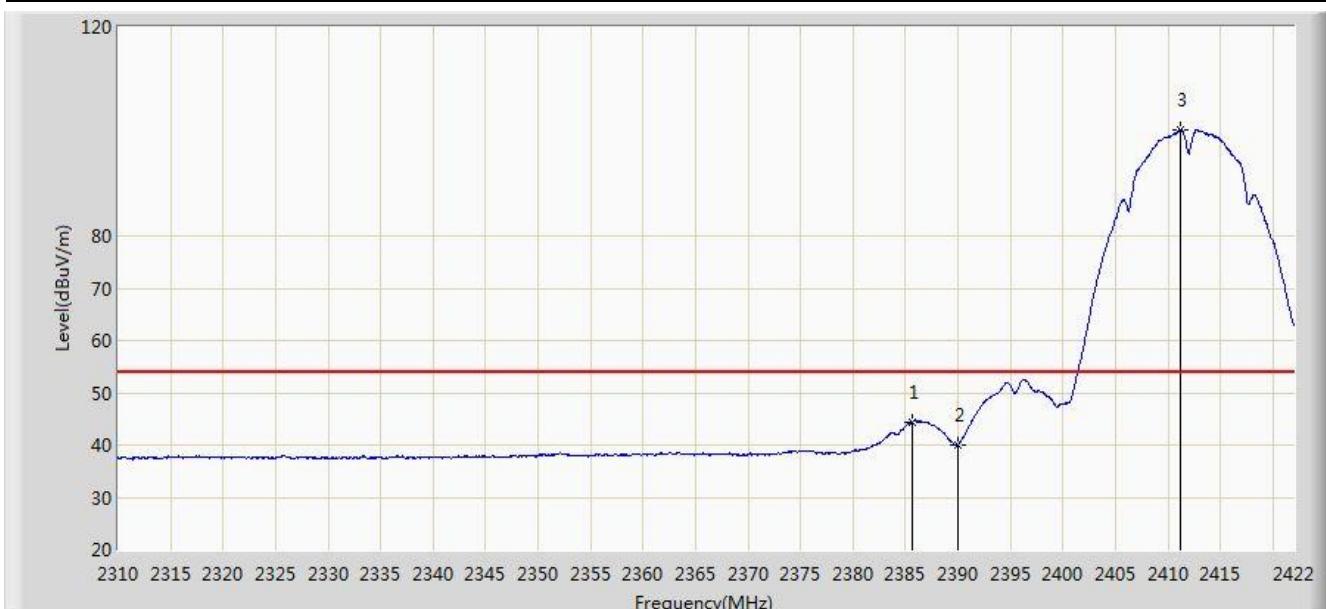


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2383.416	59.154	26.818	-14.846	74.000	32.336	PK
2			2390.000	57.006	24.679	-16.994	74.000	32.327	PK
3		*	2410.800	104.344	72.058	N/A	N/A	32.286	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:48
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 1	

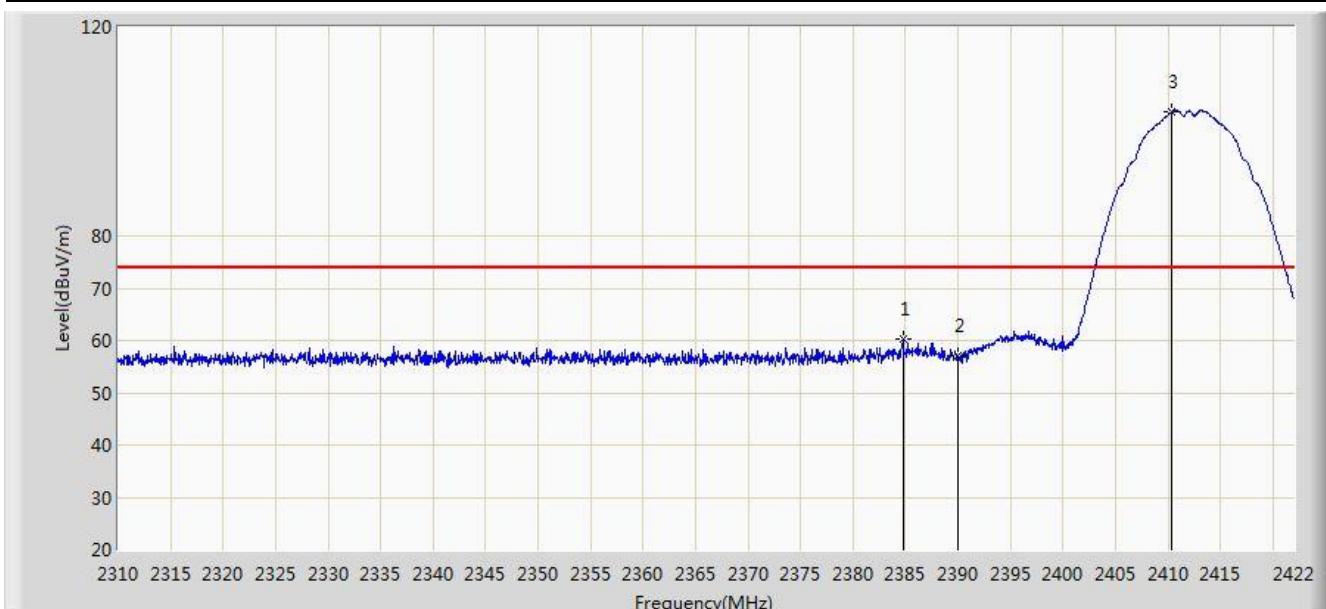


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.600	44.379	12.046	-9.621	54.000	32.333	AV
2			2390.000	40.126	7.799	-13.874	54.000	32.327	AV
3		*	2411.136	100.294	68.009	N/A	N/A	32.285	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:50
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 1	

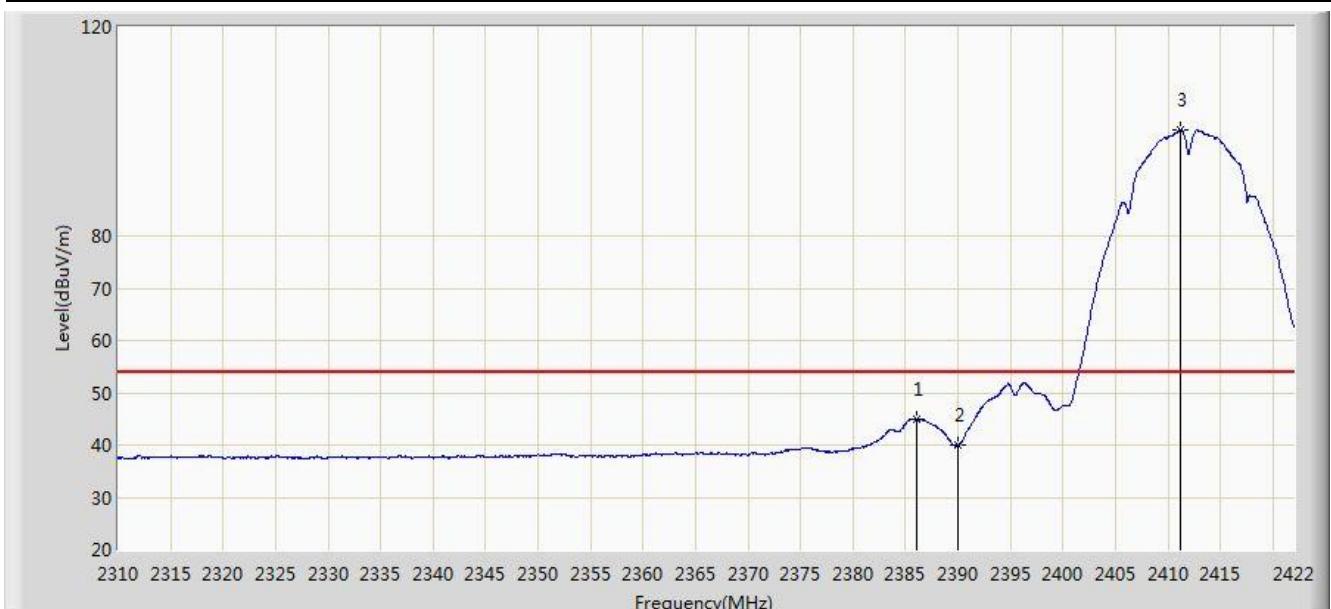


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			2384.816	60.271	27.937	-13.729	74.000	32.334	PK
2			2390.000	57.042	24.715	-16.958	74.000	32.327	PK
3		*	2410.408	103.717	71.430	N/A	N/A	32.287	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 1	

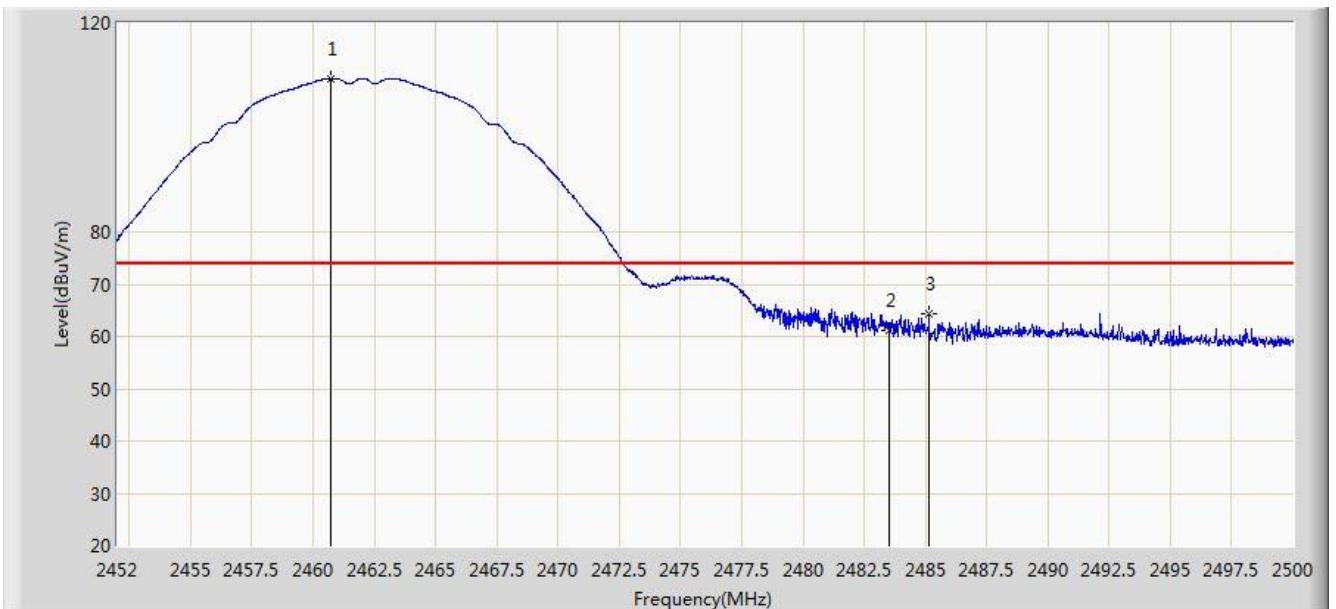


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.048	44.889	12.557	-9.111	54.000	32.332	AV
2			2390.000	39.898	7.571	-14.102	54.000	32.327	AV
3		*	2411.192	100.305	68.020	N/A	N/A	32.285	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 1	

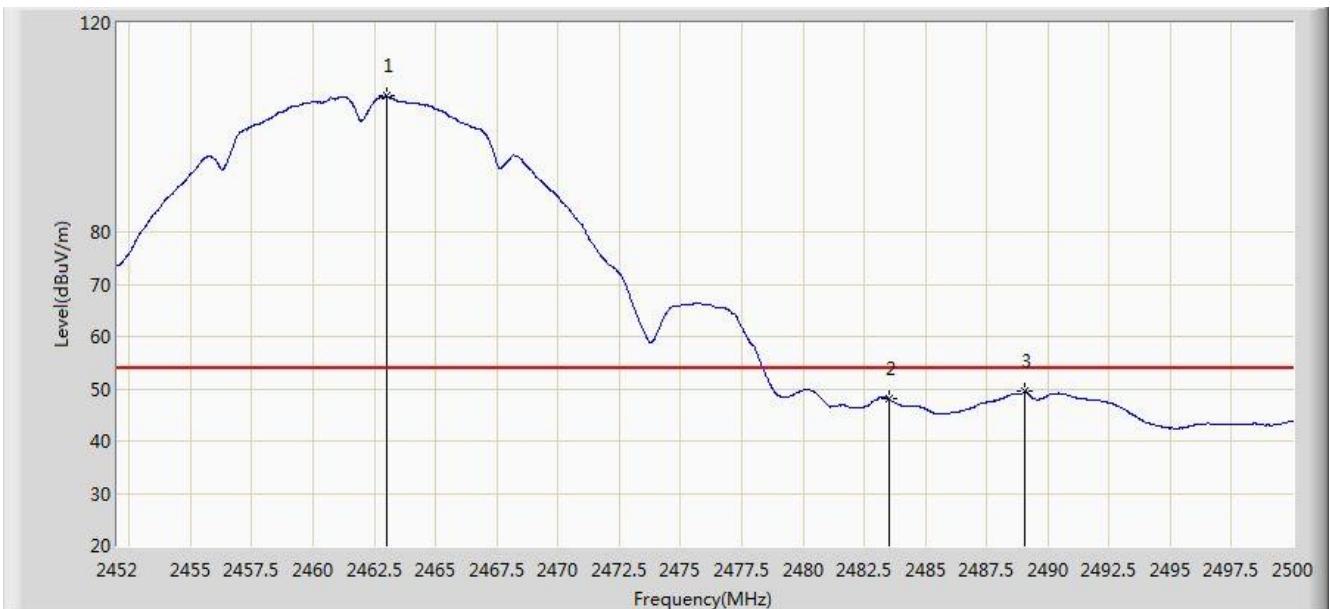


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.712	109.358	77.080	N/A	N/A	32.278	PK
2			2483.500	61.280	28.941	-12.720	74.000	32.340	PK
3			2485.144	64.424	32.078	-9.576	74.000	32.346	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:05
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 1	

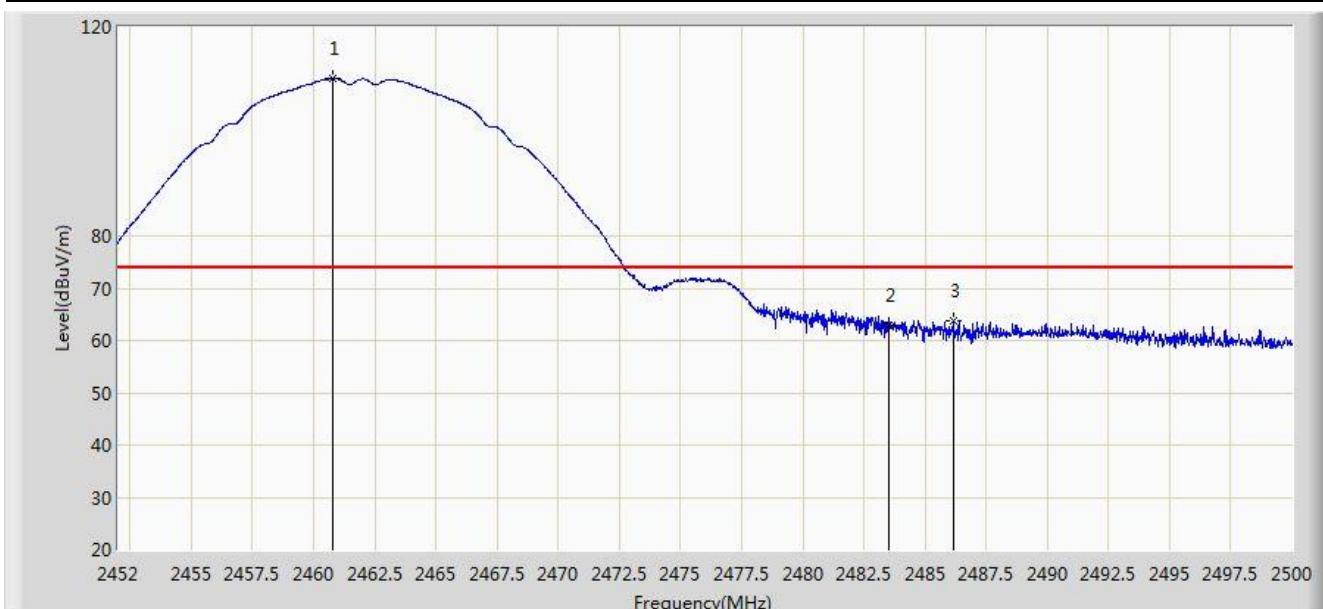


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.016	106.089	73.807	N/A	N/A	32.282	AV
2			2483.500	48.035	15.696	-5.965	54.000	32.340	AV
3			2489.080	49.596	17.235	-4.404	54.000	32.361	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:07
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.784	110.062	77.784	N/A	N/A	32.278	PK
2			2483.500	62.957	30.618	-11.043	74.000	32.340	PK
3			2486.152	63.722	31.372	-10.278	74.000	32.349	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:12
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 1	

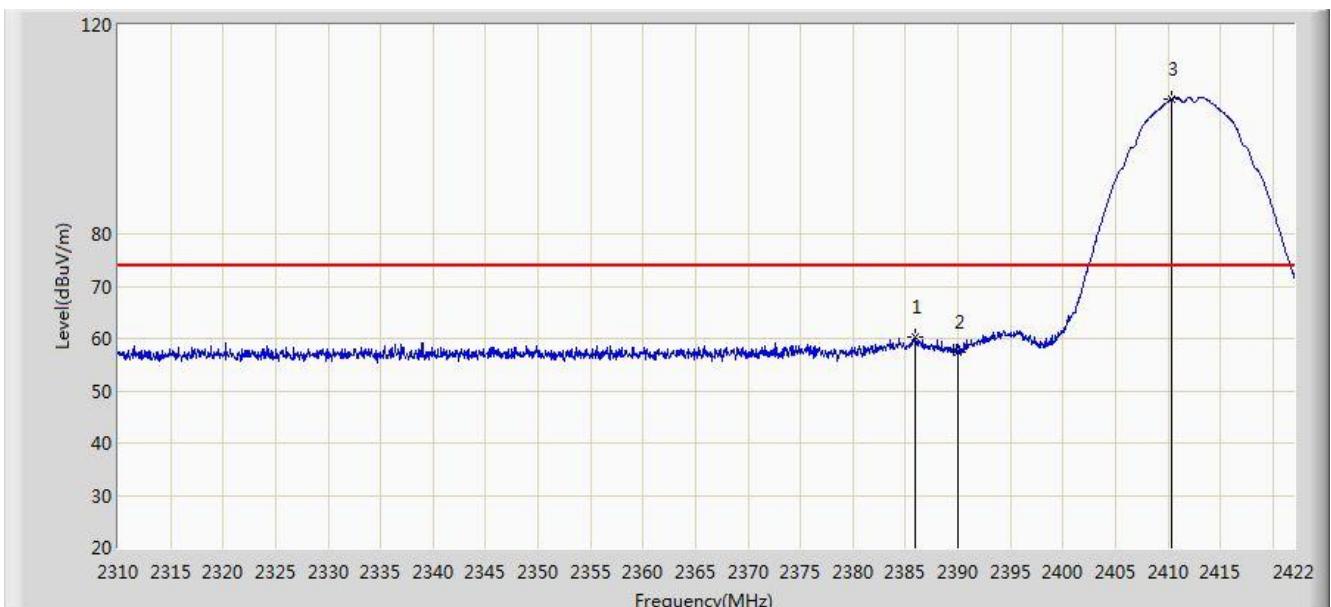


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.312	106.259	73.980	N/A	N/A	32.279	AV
2			2483.500	48.292	15.953	-5.708	54.000	32.340	AV
3			2490.352	49.810	17.444	-4.190	54.000	32.366	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:51
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 2	

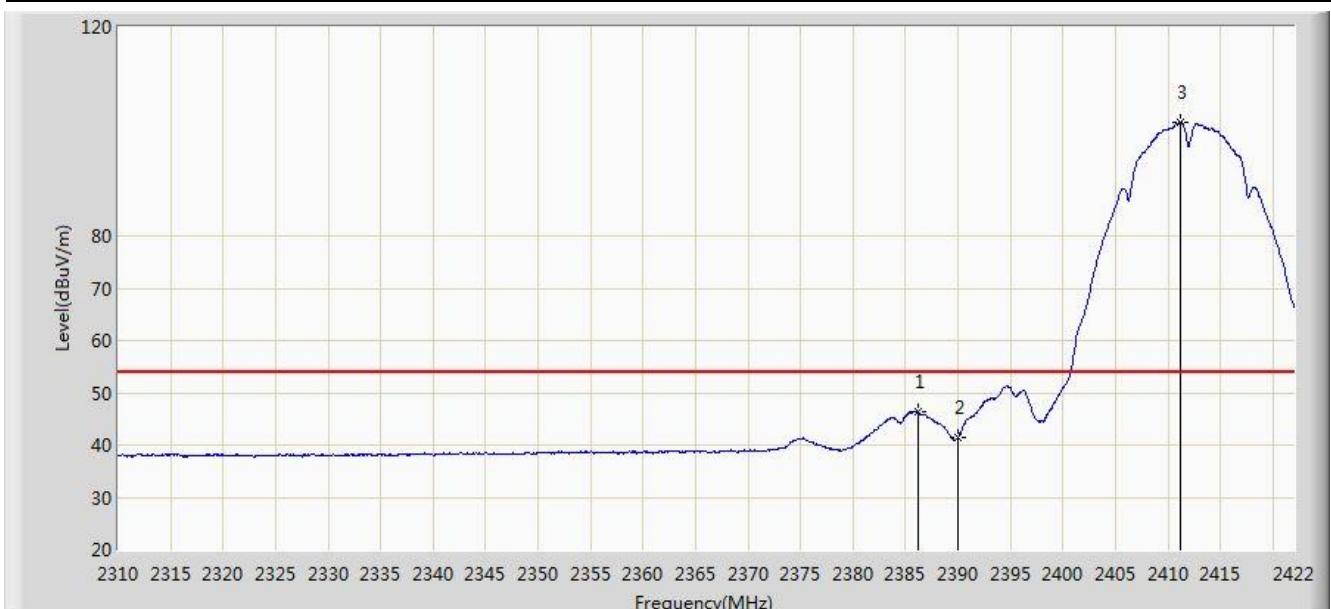


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.992	60.148	27.816	-13.852	74.000	32.332	PK
2			2390.000	57.330	25.003	-16.670	74.000	32.327	PK
3		*	2410.408	105.893	73.606	N/A	N/A	32.287	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:54
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 2	

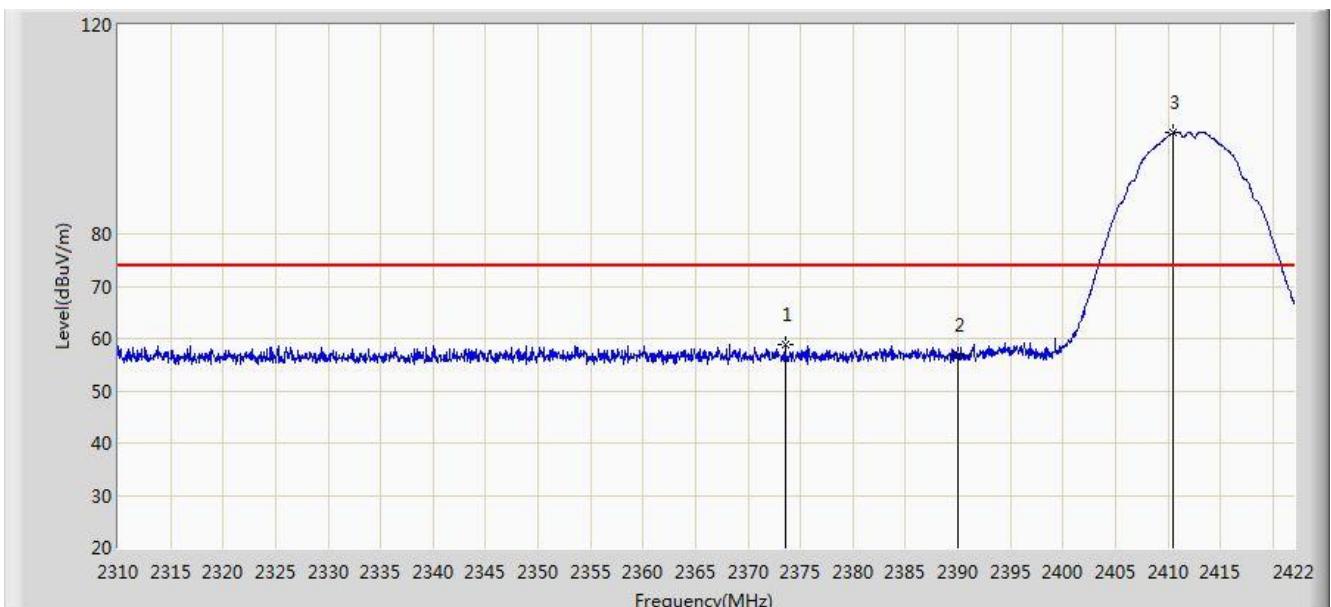


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.216	46.299	13.967	-7.701	54.000	32.332	AV
2			2390.000	41.491	9.164	-12.509	54.000	32.327	AV
3		*	2411.136	101.771	69.486	N/A	N/A	32.285	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:55
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 2	

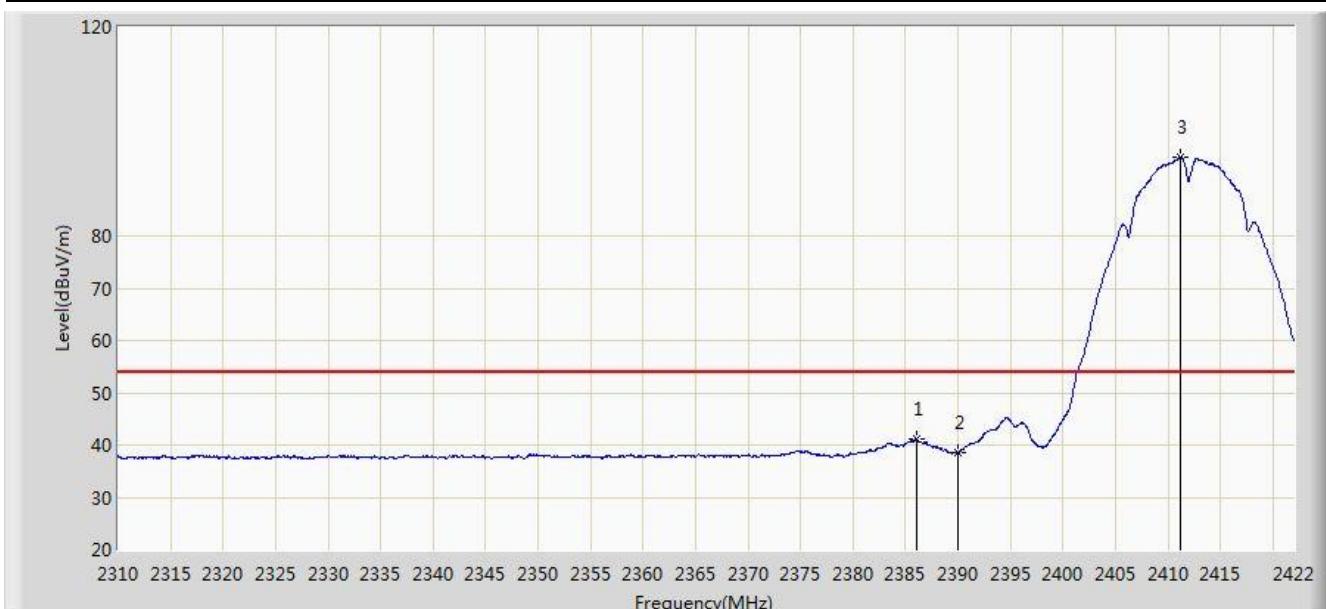


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			2373.560	58.760	26.409	-15.240	74.000	32.352	PK
2			2390.000	56.936	24.609	-17.064	74.000	32.327	PK
3		*	2410.520	99.386	67.100	N/A	N/A	32.286	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:56
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 2	

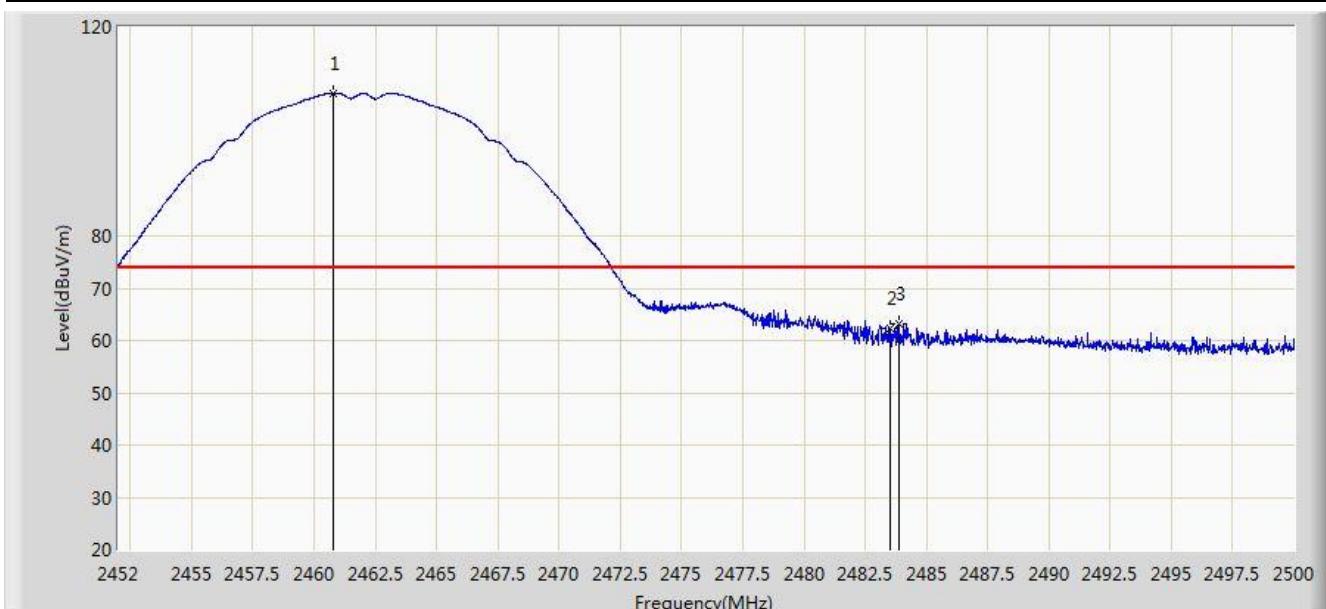


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2386.048	41.023	8.691	-12.977	54.000	32.332	AV
2			2390.000	38.410	6.083	-15.590	54.000	32.327	AV
3		*	2411.136	95.049	62.764	N/A	N/A	32.285	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 2	

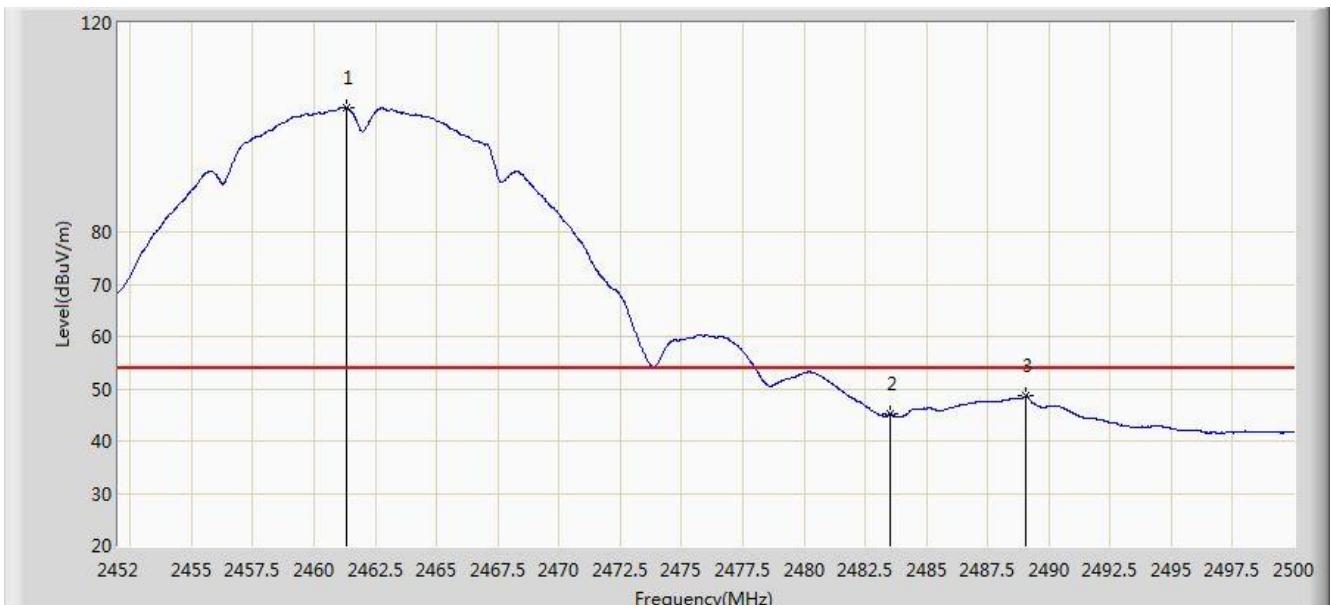


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.784	107.314	75.036	N/A	N/A	32.278	PK
2			2483.500	62.388	30.049	-11.612	74.000	32.340	PK
3			2483.896	63.309	30.968	-10.691	74.000	32.340	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:22
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 2	

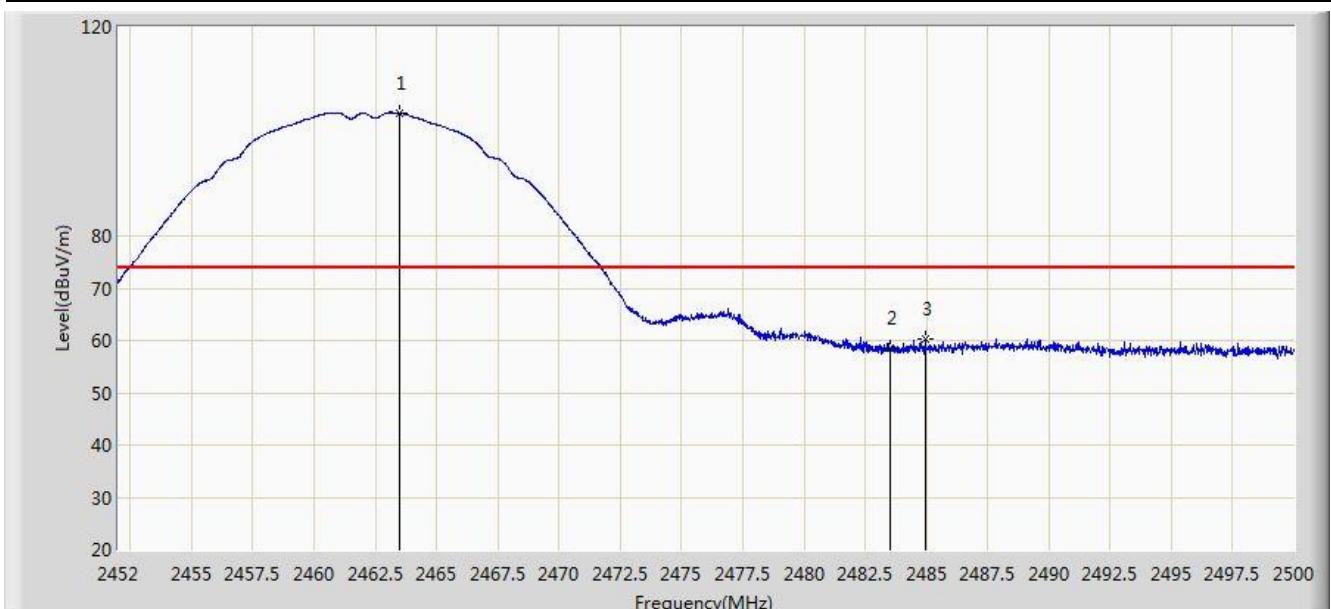


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.312	103.772	71.493	N/A	N/A	32.279	AV
2			2483.500	45.109	12.770	-8.891	54.000	32.340	AV
3			2489.080	48.665	16.304	-5.335	54.000	32.361	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:23
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 2	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2463.472	103.475	71.192	N/A	N/A	32.283	PK
2			2483.500	58.426	26.087	-15.574	74.000	32.340	PK
3			2484.952	60.269	27.924	-13.731	74.000	32.345	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:26
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 2	

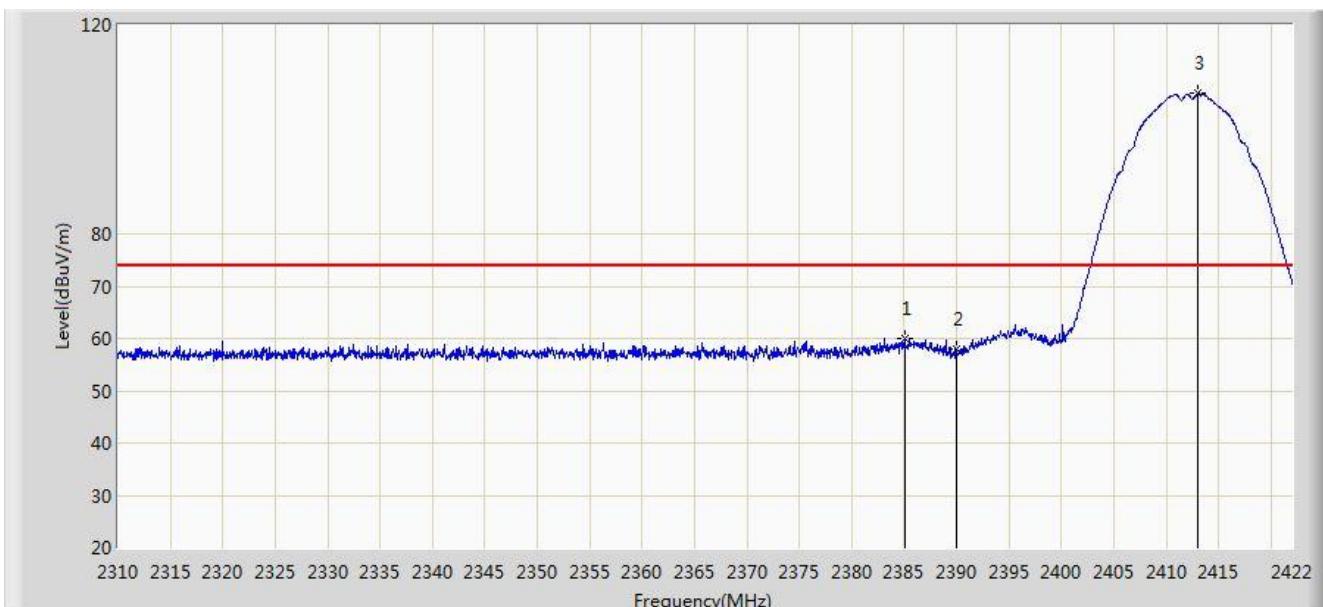


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2462.728	99.718	67.436	N/A	N/A	32.282	AV
2			2483.500	40.435	8.096	-13.565	54.000	32.340	AV
3			2488.552	44.695	12.336	-9.305	54.000	32.359	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:57
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 3	

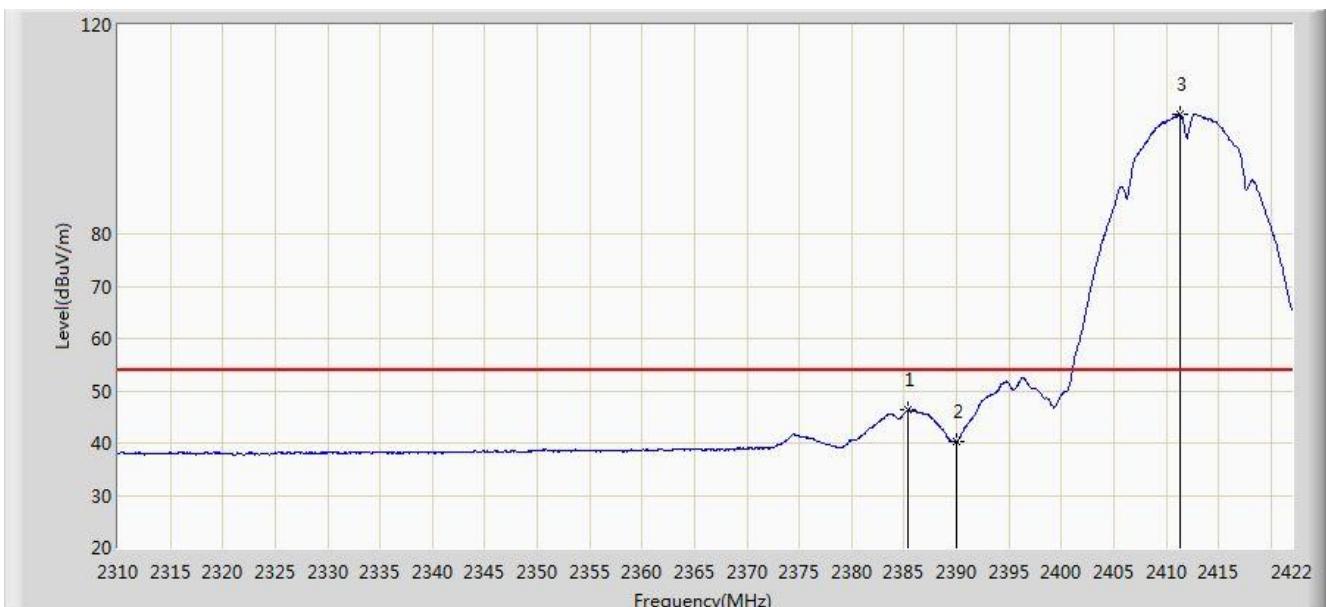


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.040	59.870	27.536	-14.130	74.000	32.334	PK
2			2390.000	57.974	25.647	-16.026	74.000	32.327	PK
3		*	2413.040	106.818	74.534	N/A	N/A	32.284	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 10:59
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 3	

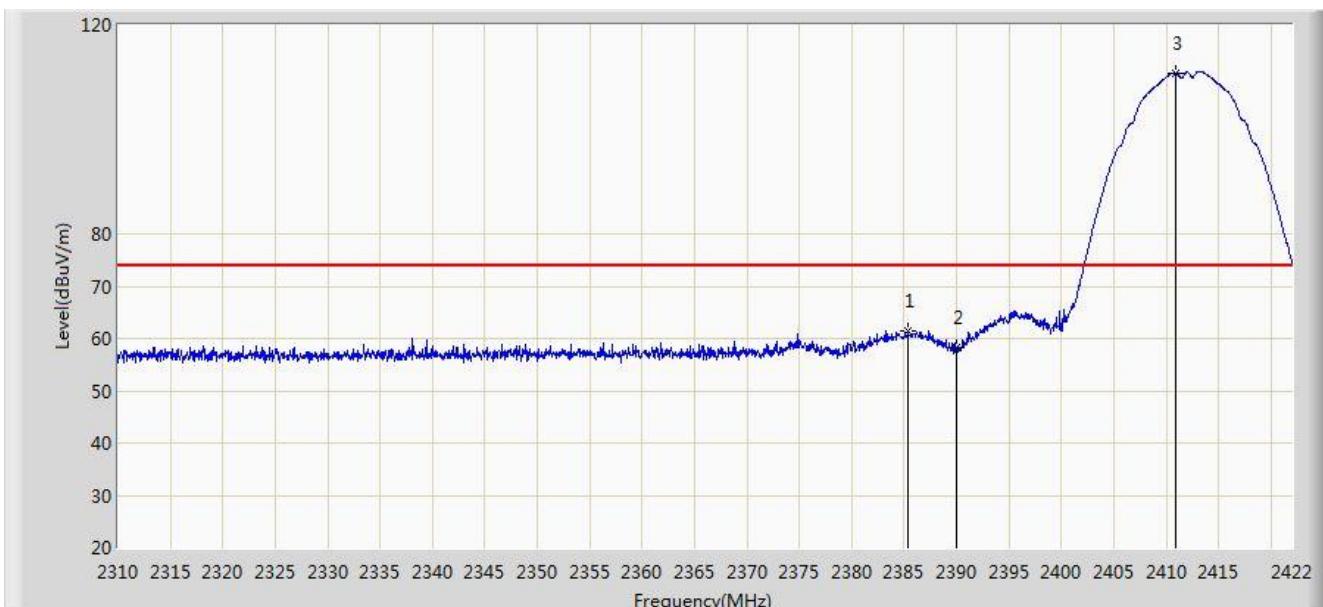


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.432	46.254	13.921	-7.746	54.000	32.333	AV
2			2390.000	40.381	8.054	-13.619	54.000	32.327	AV
3		*	2411.304	102.997	70.712	N/A	N/A	32.286	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 11:00
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 3	



No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.376	61.477	29.144	-12.523	74.000	32.333	PK
2			2390.000	58.137	25.810	-15.863	74.000	32.327	PK
3		*	2410.912	110.842	78.557	N/A	N/A	32.285	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 11:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2412MHz Ant 3	

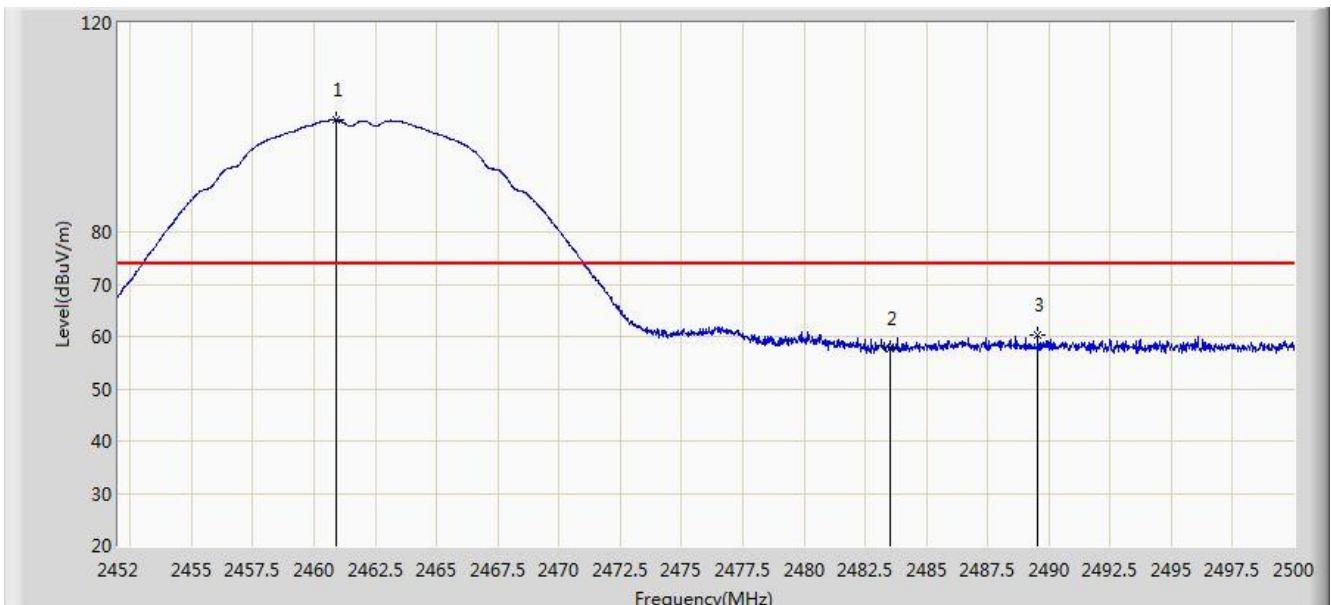


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2385.376	51.216	18.883	-2.784	54.000	32.333	AV
2			2390.000	44.451	12.124	-9.549	54.000	32.327	AV
3		*	2411.136	107.154	74.869	N/A	N/A	32.285	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:27
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 3	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.928	101.383	69.105	N/A	N/A	32.278	PK
2			2483.500	57.768	25.429	-16.232	74.000	32.340	PK
3			2489.536	60.156	27.793	-13.844	74.000	32.363	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:30
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 3	

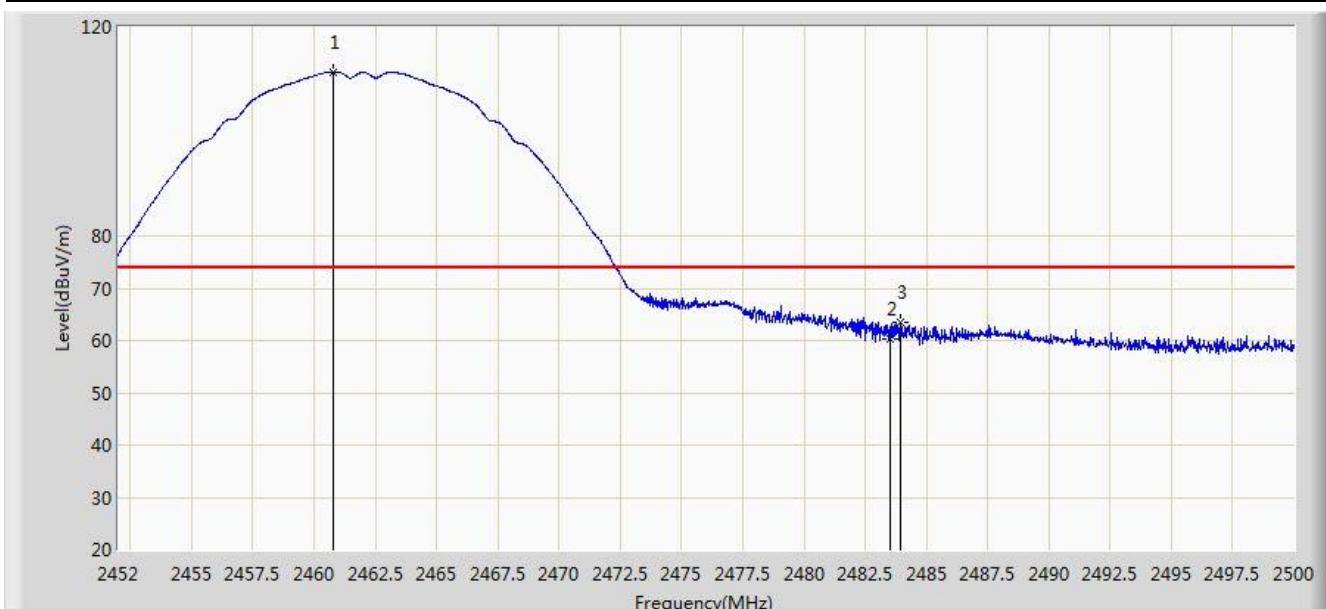


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.168	97.950	65.671	N/A	N/A	32.279	AV
2			2483.500	39.017	6.678	-14.983	54.000	32.340	AV
3			2487.832	41.589	9.233	-12.411	54.000	32.356	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 3	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2460.784	111.400	79.122	N/A	N/A	32.278	PK
2			2483.500	60.220	27.881	-13.780	74.000	32.340	PK
3			2483.920	63.354	31.013	-10.646	74.000	32.340	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 21:35
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at channel 2462MHz Ant 3	

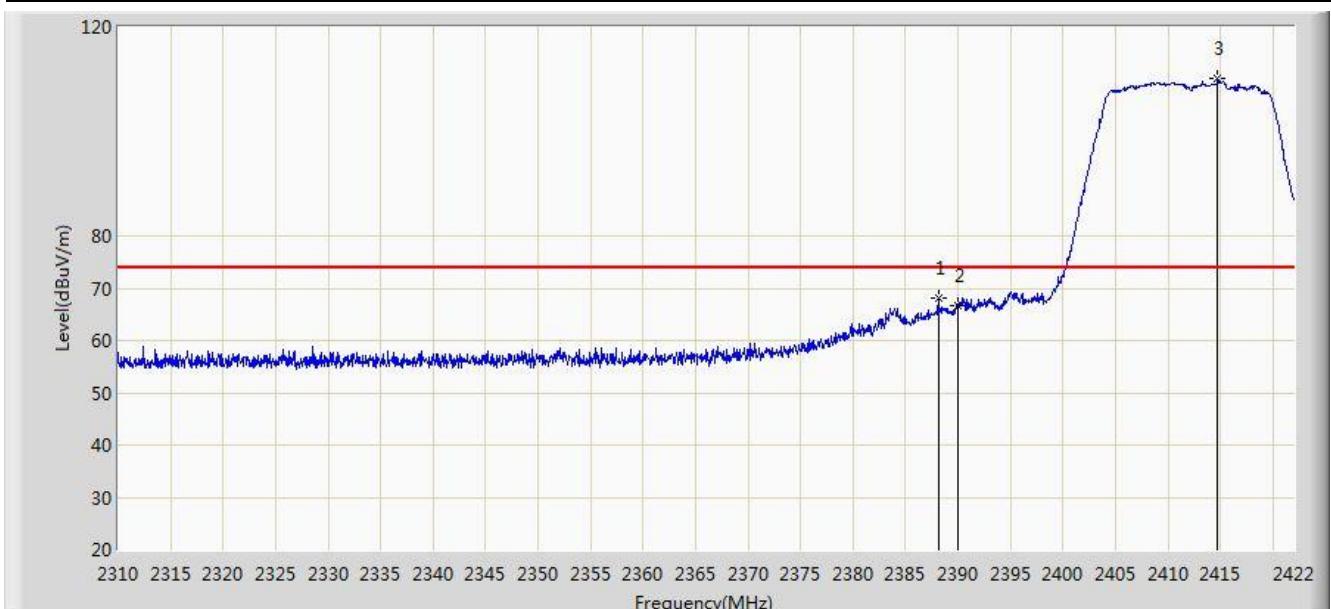


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2461.240	107.853	75.574	N/A	N/A	32.279	AV
2			2483.500	43.951	11.612	-10.049	54.000	32.340	AV
3			2488.024	49.467	17.110	-4.533	54.000	32.357	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 11:13
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz Ant 0	

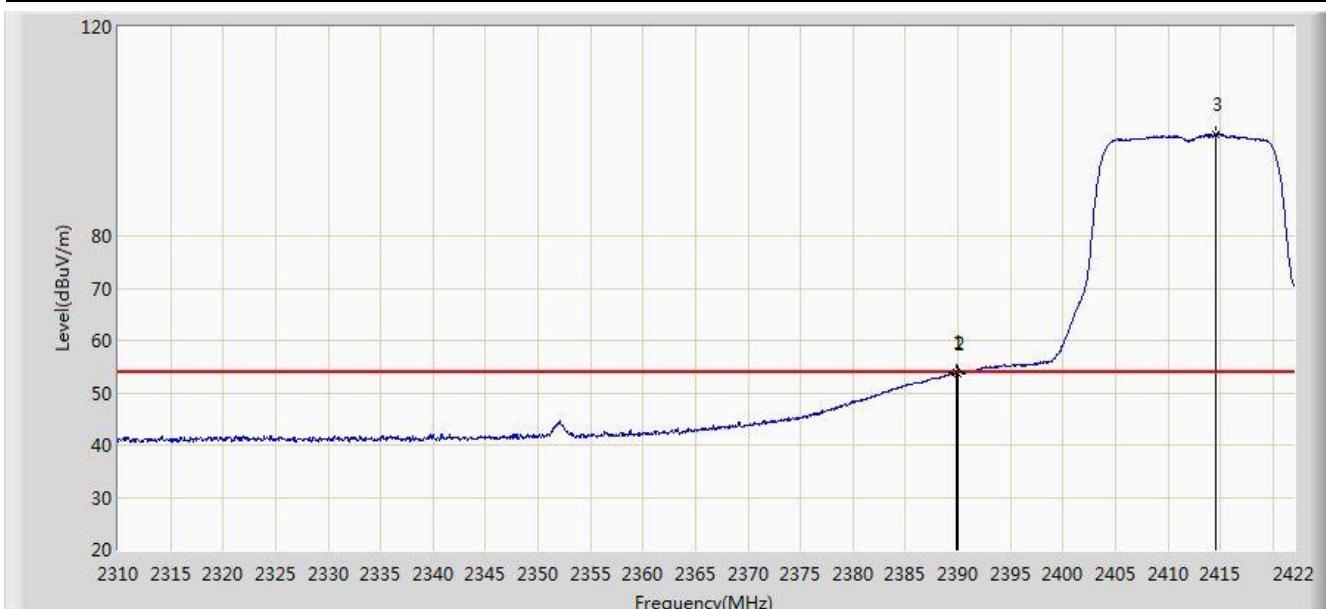


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.120	68.002	35.673	-5.998	74.000	32.330	PK
2			2390.000	66.672	34.345	-7.328	74.000	32.327	PK
3		*	2414.720	110.228	77.944	N/A	N/A	32.283	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 11:11
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz Ant 0	

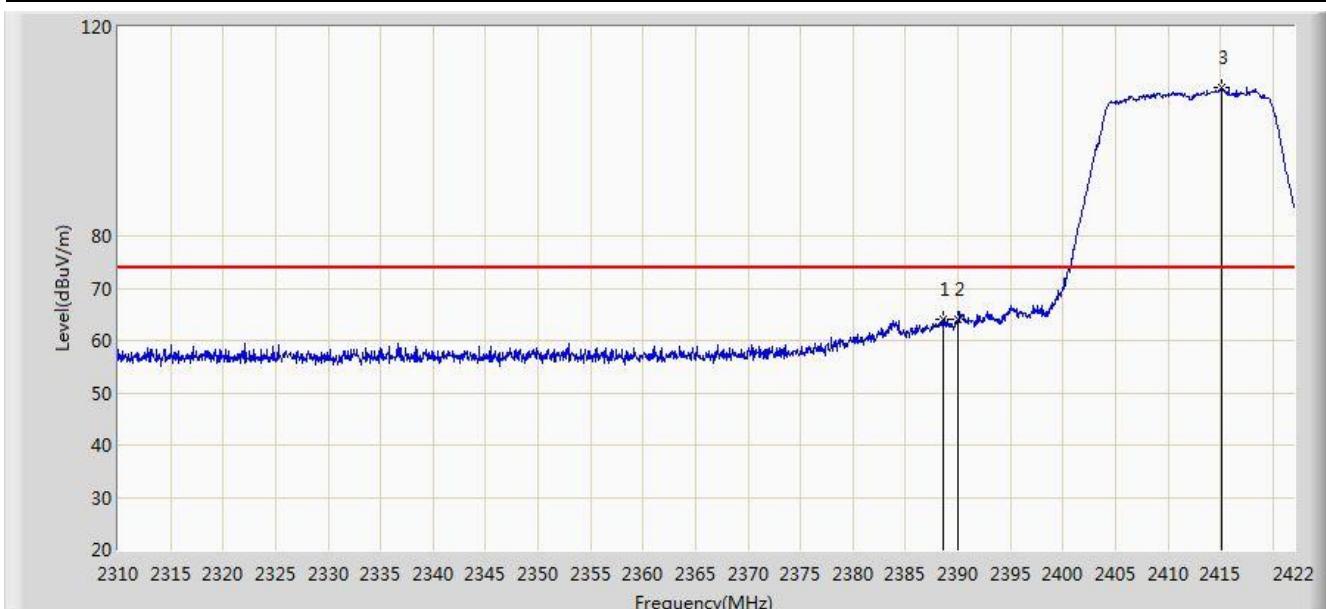


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.800	53.822	21.495	-0.178	54.000	32.327	AV
2			2390.000	53.767	21.440	-0.233	54.000	32.327	AV
3		*	2414.496	99.352	67.068	N/A	N/A	32.284	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 11:14
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz Ant 0	

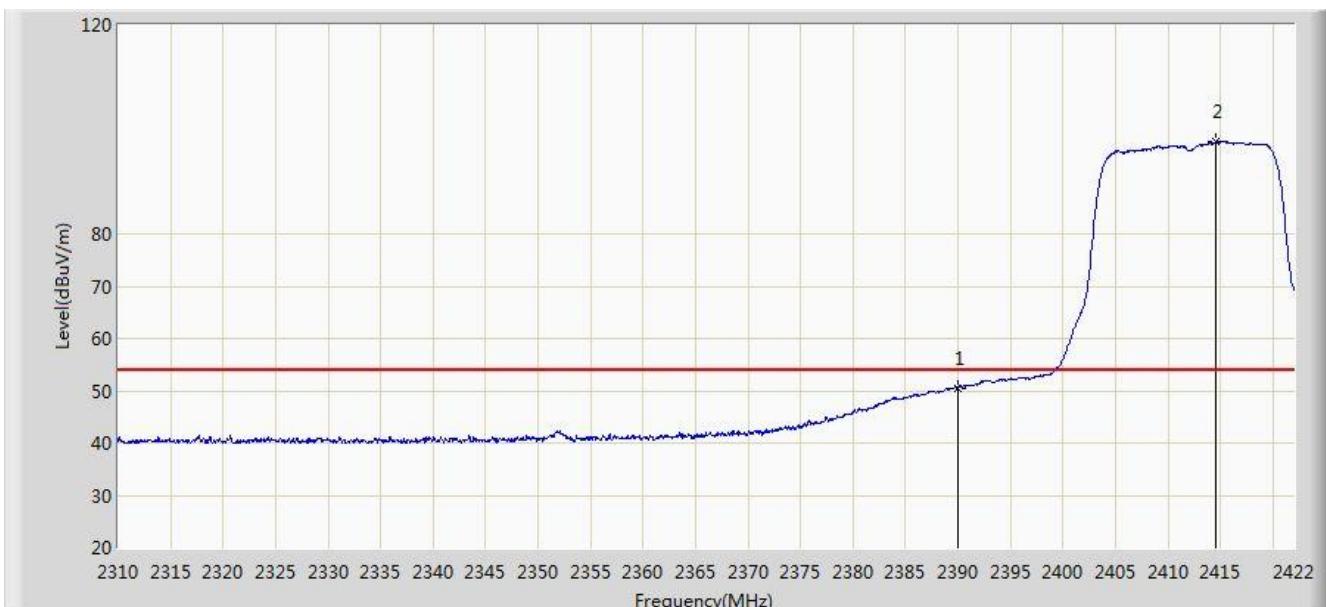


No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			2388.568	64.079	31.750	-9.921	74.000	32.329	PK
2			2390.000	64.056	31.729	-9.944	74.000	32.327	PK
3		*	2415.056	108.509	76.225	N/A	N/A	32.284	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 11:16
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz Ant 0	



No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2390.000	50.561	18.234	-3.439	54.000	32.327	AV
2	*	*	2414.496	97.572	65.288	N/A	N/A	32.284	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 23:01
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz Ant 0	

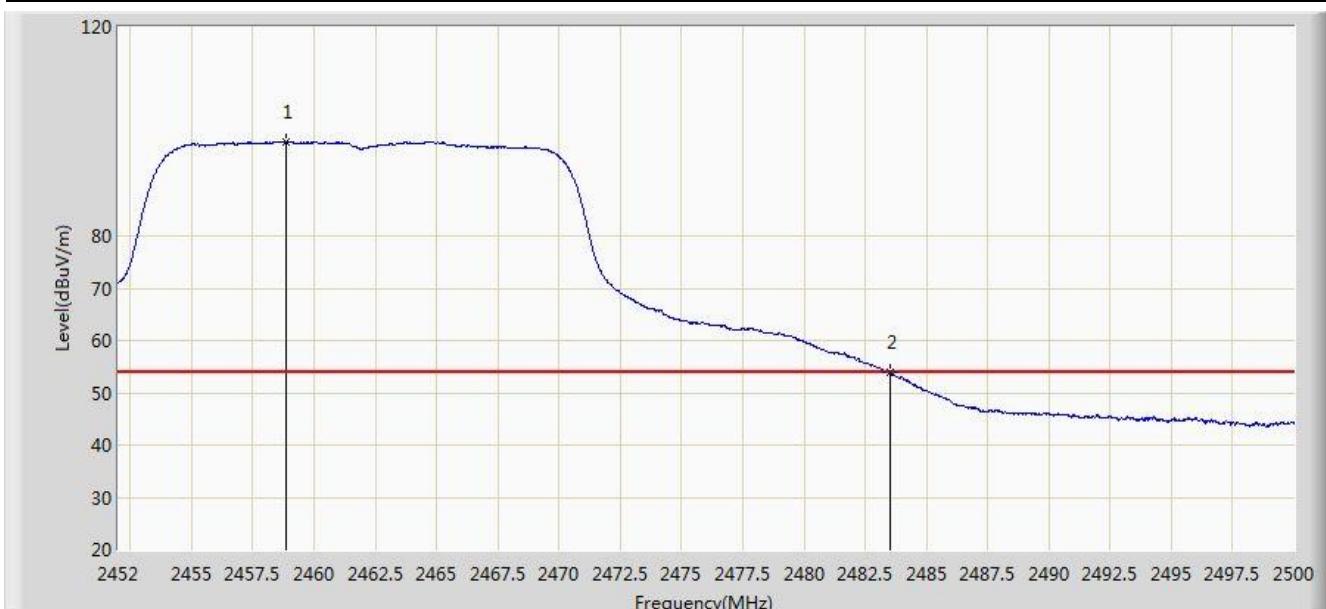


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.336	108.902	76.629	N/A	N/A	32.273	PK
2			2483.500	65.991	33.652	-8.009	74.000	32.340	PK
3			2484.784	66.528	34.184	-7.472	74.000	32.344	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 22:58
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz Ant 0	

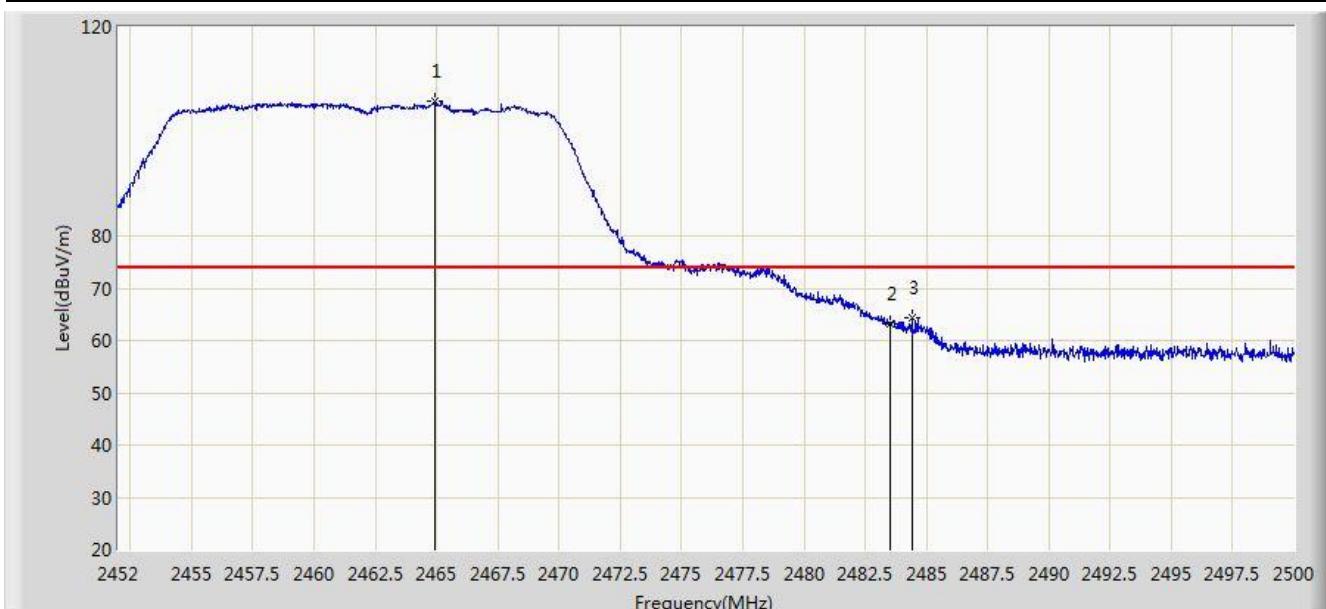


No	Flag	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2458.840	97.865	65.591	N/A	N/A	32.274	AV
2			2483.500	53.794	21.455	-0.206	54.000	32.340	AV

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

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

Site: AC1	Time: 2018/12/06 - 23:02
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz Ant 0	

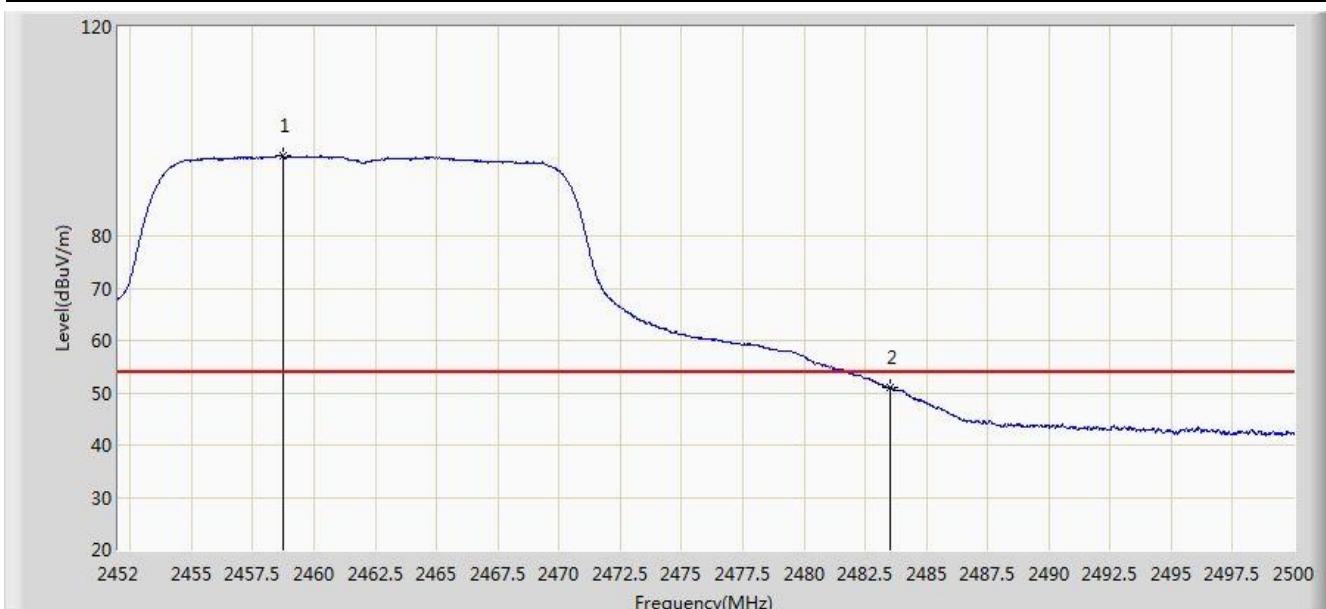


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2464.936	105.723	73.437	N/A	N/A	32.286	PK
2			2483.500	63.200	30.861	-10.800	74.000	32.340	PK
3			2484.400	64.439	32.096	-9.561	74.000	32.342	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 23:03
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz Ant 0	

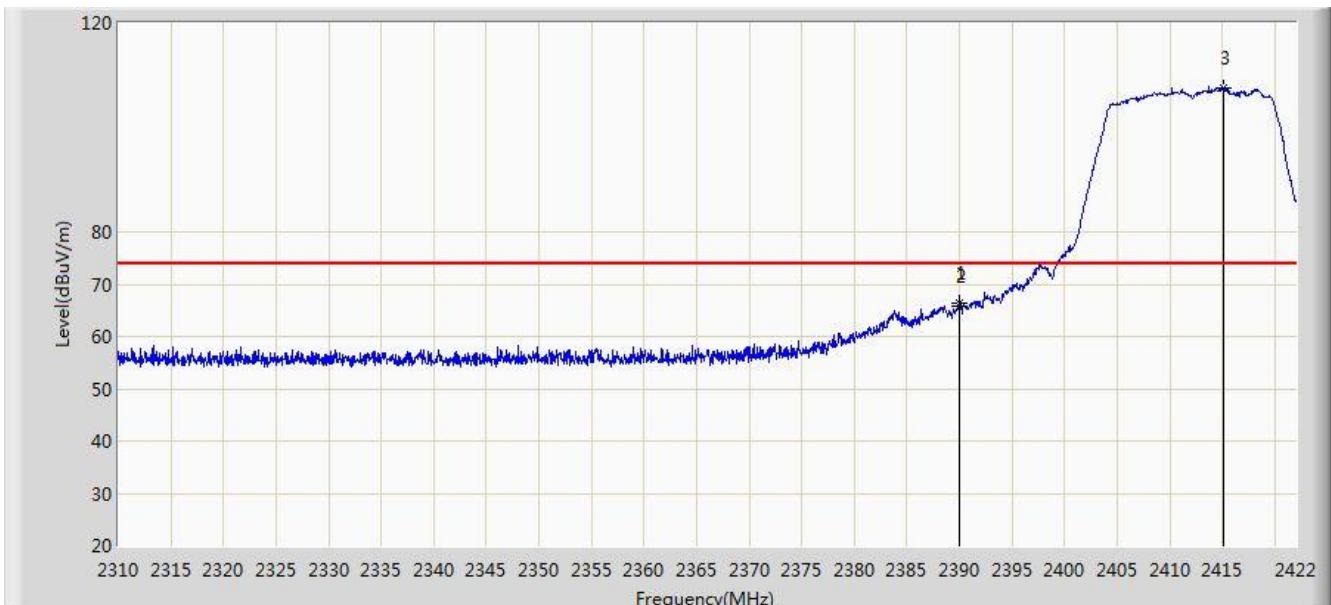


No	Flag	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB)	Type
1		*	2458.744	95.327	63.053	N/A	N/A	32.273	AV
2			2483.500	51.026	18.687	-2.974	54.000	32.340	AV

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

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

Site: AC1	Time: 2018/12/06 - 11:31
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz Ant 1	

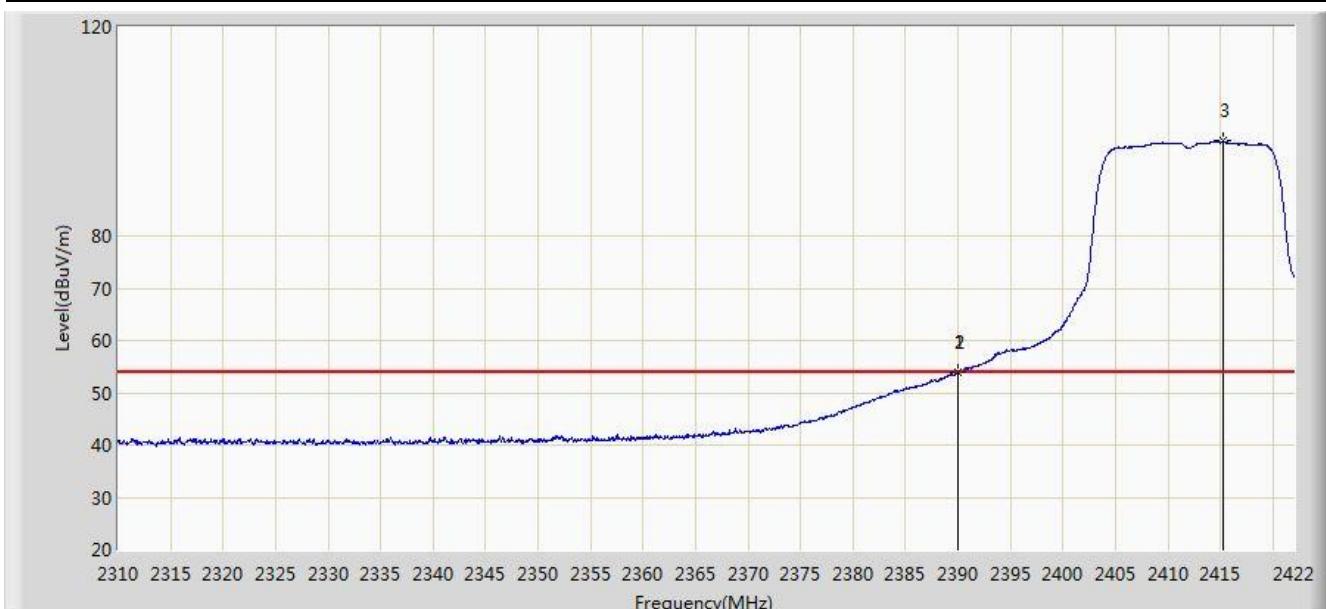


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.968	66.493	34.166	-7.507	74.000	32.327	PK
2			2390.000	65.915	33.588	-8.085	74.000	32.327	PK
3		*	2415.168	107.554	75.271	N/A	N/A	32.283	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 11:28
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz Ant 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2389.968	53.888	21.561	-0.112	54.000	32.327	AV
2			2390.000	53.847	21.520	-0.153	54.000	32.327	AV
3		*	2415.224	98.129	65.846	N/A	N/A	32.283	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 11:32
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz Ant 1	

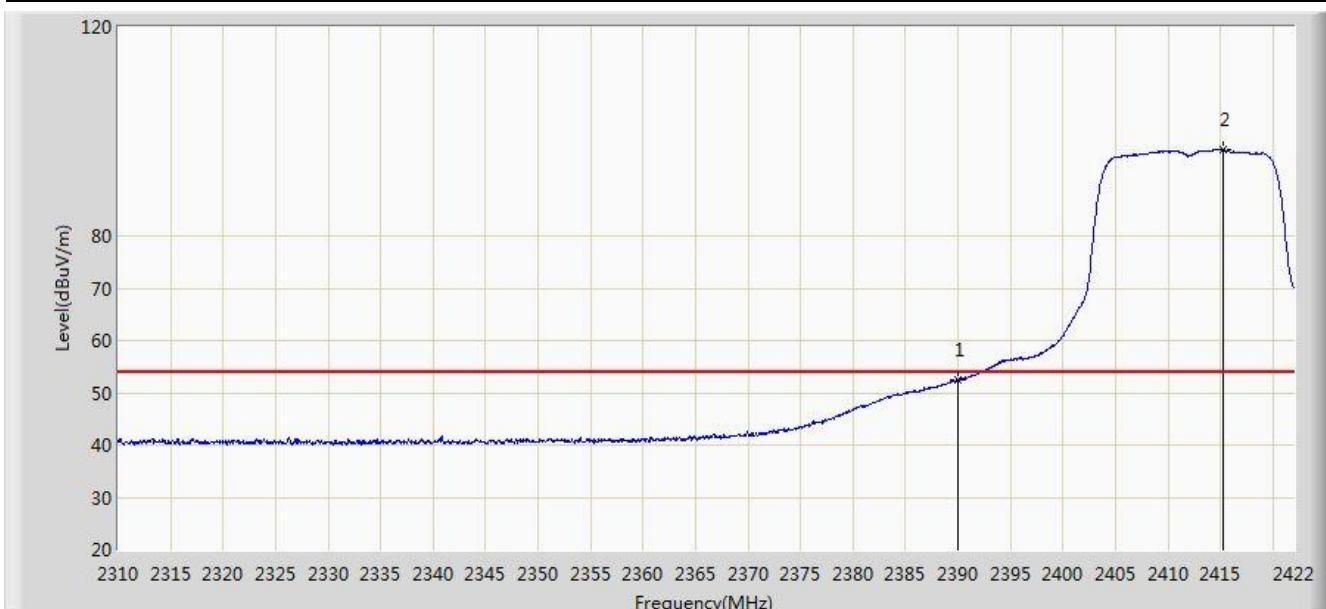


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1			2388.232	65.837	33.508	-8.163	74.000	32.329	PK
2			2390.000	64.885	32.558	-9.115	74.000	32.327	PK
3		*	2414.664	107.483	75.199	N/A	N/A	32.284	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 11:34
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Vertical
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2412MHz Ant 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dB $\mu$ V/m)	Reading Level (dB $\mu$ V)	Margin (dB)	Limit (dB $\mu$ V/m)	Factor (dB)	Type
1			2390.000	52.488	20.161	-1.512	54.000	32.327	AV
2	*		2415.224	96.580	64.297	N/A	N/A	32.283	AV

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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

Site: AC1	Time: 2018/12/06 - 22:53
Limit: FCC_Part15.209_RE(3m)	Engineer: Cloud Guo
Probe: BBHA9120D_1-18GHz	Polarity: Horizontal
EUT: 7Signal Sapphire Eye	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at channel 2462MHz Ant 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		*	2459.416	108.826	76.551	N/A	N/A	32.275	PK
2			2483.500	64.908	32.569	-9.092	74.000	32.340	PK
3			2484.352	66.561	34.219	-7.439	74.000	32.342	PK

Note: Measure Level (dB $\mu$ V/m) = Reading Level (dB $\mu$ V) + Factor (dB)

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