



**TEST REPORT**  
**FCC PART 15 SUBPART C 15.247**

**Test report**  
**On Behalf of**  
**SHENZHEN NEO ELECTRONICS CO., LTD**  
**For**  
**WiFi motion sensor**  
**Model No.: NAS-PD01W0, NAS-PD02W0, GN-SS002**

**FCC ID: Z52NAS-PD01W0**

**Prepared for :** **SHENZHEN NEO ELECTRONICS CO., LTD**  
**East 6/F Building 2, Laobing industry, Baoan District, Shenzhen.**

**Prepared By :** **Shenzhen HUAKE Testing Technology Co., Ltd.**  
**1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Fuhai Street,**  
**Bao'an District, Shenzhen City, China**

**Date of Test:** **Sep. 18, 2018 ~ Sep. 29, 2018**  
**Date of Report:** **Sep. 29, 2018**  
**Report Number:** **HK1809201133E**

**TEST RESULT CERTIFICATION****Applicant's name** .....: SHENZHEN NEO ELECTRONICS CO., LTD

Address .....: East 6/F Building 2, Laobing industry, Baoan District, Shenzhen.

**Manufacture's Name**.....: SHENZHEN NEO ELECTRONICS CO., LTD

Address .....: East 6/F Building 2, Laobing industry, Baoan District, Shenzhen.

**Product description**

Trade Mark: NEO Coolcam

Product name.....: WiFi motion sensor

Model and/or type reference ...: NAS-PD01W0

Series Model NAS-PD02W0, GN-SS002

Difference description All the same except for the model name.

**Standards**.....: **47 CFR FCC Part 15 Subpart C 15.247**

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**Date of Test** .....

Date (s) of performance of tests .....: Sep. 18, 2018 to Sep. 29, 2018

Date of Issue .....: Sep. 29, 2018

Test Result.....: **Pass**

Testing Engineer :

(Gary Qian)

Technical Manager :

(Eden Hu)

Authorized Signatory :

(Jason Zhou)

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## 1.SUMMARY

### 1.1 TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

[ANSI C63.10:2013](#) : American National Standard for Testing Unlicensed Wireless Devices

[KDB558074 D01 15.247 Meas Guidance v05](#): Guidance for compliance measurements on Digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules.

### 1.2 TEST DESCRIPTION

| FCC RULES | DESCRIPTION OF TEST                             | RESULT    |
|-----------|-------------------------------------------------|-----------|
| §15.247   | Output Power                                    | Compliant |
| §15.247   | 6 dB Bandwidth                                  | Compliant |
| §15.247   | Conducted Spurious Emission                     | Compliant |
| §15.247   | Maximum Conducted Output Power SPECTRAL Density | Compliant |
| §15.209   | Radiated Emission                               | Compliant |
| §15.247   | Band Edges                                      | Compliant |
| §15.207   | Line Conduction Emission                        | N/A       |

NOTE: N/A stands for not applicable.



### 1.3 TEST FACILITY

#### 1.3.1 Address of the test laboratory

Shenzhen HUAKE Testing Technology Co., Ltd.

Add.:1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park,Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 32/EN 55032 requirements.

#### 1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

#### IC Registration No.: 21210

The 3m alternate test site of Shenzhen HUAKE Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 21210 on May 24, 2016.

#### FCC Registration No.: CN1229

Test Firm Registration Number : 616276

### 1.4 STATEMENT OF THE MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen HUAKE Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for HUAKE laboratory is reported:

| Test                                    | Measurement Uncertainty | Notes |
|-----------------------------------------|-------------------------|-------|
| Transmitter power conducted             | $\pm 0.57$ dB           | (1)   |
| Transmitter power Radiated              | $\pm 2.20$ dB           | (1)   |
| Conducted spurious emission 9KHz-40 GHz | $\pm 2.20$ dB           | (1)   |
| Occupied Bandwidth                      | $\pm 0.01$ ppm          | (1)   |
| Radiated Emission 30~1000MHz            | $\pm 4.10$ dB           | (1)   |
| Radiated Emission Above 1GHz            | $\pm 4.32$ dB           | (1)   |
| Conducted Disturbance0.15~30MHz         | $\pm 3.20$ dB           | (1)   |

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



## 2. GENERAL INFORMATION

### 2.1 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

|                     |         |
|---------------------|---------|
| Normal Temperature: | 25°C    |
| Relative Humidity:  | 55 %    |
| Air Pressure:       | 101 kPa |

### 2.2 GENERAL DESCRIPTION OF EUT

|                       |                                                     |
|-----------------------|-----------------------------------------------------|
| Product Name:         | WiFi motion sensor                                  |
| Model/Type reference: | NAS-PD01W0                                          |
| Power supply:         | DC3V by Battery                                     |
| Modulation            | DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QPSK/16-QAM/64-QAM) |
| Supported modes       | 802.11 b/g/n20                                      |
| Operation Frequency   | 2.412 GHz~2.462GHz                                  |
| Channel number:       | 11                                                  |
| Antenna type:         | Fixed Antenna                                       |
| Antenna gain:         | 0dBi                                                |
| Hardware Version:     | PR_WIFI_V4                                          |
| Software Version:     | V1.0                                                |

Note: For more details, refer to the user's manual of the EUT.

### 2.3 DESCRIPTION OF TEST MODES AND TEST FREQUENCY

| Frequency Band | Channel Number | Frequency |
|----------------|----------------|-----------|
| 2400~2483.5MHZ | 1              | 2412 MHZ  |
|                | 2              | 2417 MHZ  |
|                | 3              | 2422 MHZ  |
|                | 4              | 2427 MHZ  |
|                | 5              | 2432 MHZ  |
|                | 6              | 2437 MHZ  |
|                | 7              | 2442 MHZ  |
|                | 8              | 2447 MHZ  |
|                | 9              | 2452 MHZ  |
|                | 10             | 2457 MHZ  |
|                | 11             | 2462 MHZ  |

Note: For 20MHZ bandwidth system use Channel 1 to Channel 11



| NO.                                                                                                                                                                                                 | TEST MODE DESCRIPTION |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| 1                                                                                                                                                                                                   | Low channel TX        |
| 2                                                                                                                                                                                                   | Middle channel TX     |
| 3                                                                                                                                                                                                   | High channel TX       |
| 4                                                                                                                                                                                                   | Normal operating      |
| Note:<br>Transmit by 802.11b with Data rate (1/2/5.5/11)<br>Transmit by 802.11g with Data rate (6/9/12/18/24/36/48/54)<br>Transmit by 802.11n (20MHz) with Data rate (6.5/13/19.5/26/39/52/58.5/65) |                       |

**Note:**

1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the eut is operating at its maximum duty cycle>or equal 98%
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.

**2.4 RELATED SUBMITTAL(S) / GRANT (S)**

This submittal(s) (test report) is intended to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

**2.5 MODIFICATIONS**

No modifications were implemented to meet testing criteria.

**2.6. IEEE 802.11N MODULATION SCHEME**

| MCS Index | Nss | Modulation | R   | NBPS | NCBPS |       | NDBPS |       | Data rate(Mbps) |       |
|-----------|-----|------------|-----|------|-------|-------|-------|-------|-----------------|-------|
|           |     |            |     |      |       |       |       |       | 800nsGI         |       |
|           |     |            |     |      | 20MHz | 40MHz | 20MHz | 40MHz | 20MHz           | 40MHz |
| 0         | 1   | BPSK       | 1/2 | 1    | 52    | 108   | 26    | 54    | 6.5             | 13.5  |
| 1         | 1   | QPSK       | 1/2 | 2    | 104   | 216   | 52    | 108   | 13.0            | 27.0  |
| 2         | 1   | QPSK       | 3/4 | 2    | 104   | 216   | 78    | 162   | 19.5            | 40.5  |
| 3         | 1   | 16-QAM     | 1/2 | 4    | 208   | 432   | 104   | 216   | 26.0            | 54.0  |
| 4         | 1   | 16-QAM     | 3/4 | 4    | 208   | 432   | 156   | 324   | 39.0            | 81.0  |
| 5         | 1   | 64-QAM     | 2/3 | 6    | 312   | 648   | 208   | 432   | 52.0            | 108.0 |
| 6         | 1   | 64-QAM     | 3/4 | 6    | 312   | 648   | 234   | 489   | 58.5            | 121.5 |
| 7         | 1   | 64-QAM     | 5/6 | 6    | 312   | 648   | 260   | 540   | 65.0            | 135.0 |



| Symbol | Explanation                             |
|--------|-----------------------------------------|
| NSS    | Number of spatial streams               |
| R      | Code rate                               |
| NBPSC  | Number of coded bits per single carrier |
| NCBPS  | Number of coded bits per symbol         |
| NDBPS  | Number of data bits per symbol          |
| GI     | Guard interval                          |

## 2.7 EQUIPMENT USED

| Item | Equipment                         | Manufacturer    | Model No.        | Serial No. | Last Cal.     | Cal. Interval |
|------|-----------------------------------|-----------------|------------------|------------|---------------|---------------|
| 1.   | L.I.S.N. Artificial Mains Network | R&S             | ENV216           | HKE-002    | Dec. 28, 2017 | 1 Year        |
| 2.   | Receiver                          | R&S             | ESCI 7           | HKE-010    | Dec. 28, 2017 | 1 Year        |
| 3.   | RF automatic control unit         | Tonscend        | JS0806-2         | HKE-060    | Dec. 28, 2017 | 1 Year        |
| 4.   | Horn Antenna                      | Schwarzbeck     | BBHA 9170        | HKE-090    | Dec. 28, 2017 | 1 Year        |
| 5.   | Spectrum analyzer                 | Agilent         | N9020A           | HKE-048    | Dec. 28, 2017 | 1 Year        |
| 6.   | Preamplifier                      | Schwarzbeck     | BBV 9743         | HKE-006    | Dec. 28, 2017 | 1 Year        |
| 7.   | EMI Test Receiver                 | Rohde & Schwarz | ESCI 7           | HKE-010    | Dec. 28, 2017 | 1 Year        |
| 8.   | Bilog Broadband Antenna           | Schwarzbeck     | VULB9163         | HKE-012    | Dec. 28, 2017 | 1 Year        |
| 9.   | Loop Antenna                      | Schwarzbeck     | FMZB 1519 B      | HKE-014    | Dec. 28, 2017 | 1 Year        |
| 10.  | Horn Antenna                      | Schwarzbeck     | 9120D            | HKE-013    | Dec. 28, 2017 | 1 Year        |
| 11.  | Pre-amplifier                     | EMCI            | EMC051845 SE     | HKE-015    | Dec. 28, 2017 | 1 Year        |
| 12.  | Pre-amplifier                     | Agilent         | 83051A           | HKE-016    | Dec. 28, 2017 | 1 Year        |
| 13.  | EMI Test Software EZ-EMC          | Tonscend        | JS1120-B Version | HKE-083    | Dec. 28, 2017 | N/A           |
| 14.  | Power Sensor                      | Agilent         | E9300A           | HKE-086    | Dec. 28, 2017 | 1 Year        |
| 15.  | Spectrum analyzer                 | Agilent         | N9020A           | HKE-048    | Dec. 28, 2017 | 1 Year        |
| 16.  | Signal generator                  | Agilent         | N5182A           | HKE-029    | Dec. 28, 2017 | 1 Year        |
| 17.  | Signal Generator                  | Agilent         | 83630A           | HKE-028    | Dec. 28, 2017 | 1 Year        |
| 18.  | Shielded room                     | Shiel Hong      | 4*3*3            | HKE-039    | Dec. 28, 2017 | 3 Year        |

The calibration interval was one year



### 3. OUTPUT POWER

#### 3.1. MEASUREMENT PROCEDURE

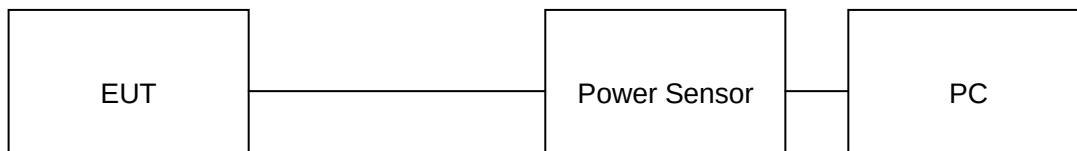
For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

**Note :** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

#### 3.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

##### AVERAGE POWER SETUP





### 3.3. LIMITS AND MEASUREMENT RESULT

|           |                          |
|-----------|--------------------------|
| TEST ITEM | OUTPUT POWER             |
| TEST MODE | 802.11b with data rate 1 |

| Frequency (GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|-----------------|---------------------|-------------------------|--------------|
| 2.412           | 15.63               | 30                      | Pass         |
| 2.437           | 15.19               | 30                      | Pass         |
| 2.462           | 15.40               | 30                      | Pass         |

|           |                          |
|-----------|--------------------------|
| TEST ITEM | OUTPUT POWER             |
| TEST MODE | 802.11g with data rate 6 |

| Frequency (GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|-----------------|---------------------|-------------------------|--------------|
| 2.412           | 11.98               | 30                      | Pass         |
| 2.437           | 12.12               | 30                      | Pass         |
| 2.462           | 12.09               | 30                      | Pass         |

|           |                               |
|-----------|-------------------------------|
| TEST ITEM | OUTPUT POWER                  |
| TEST MODE | 802.11n 20 with data rate 6.5 |

| Frequency (GHz) | Average Power (dBm) | Applicable Limits (dBm) | Pass or Fail |
|-----------------|---------------------|-------------------------|--------------|
| 2.412           | 11.81               | 30                      | Pass         |
| 2.437           | 11.92               | 30                      | Pass         |
| 2.462           | 12.01               | 30                      | Pass         |



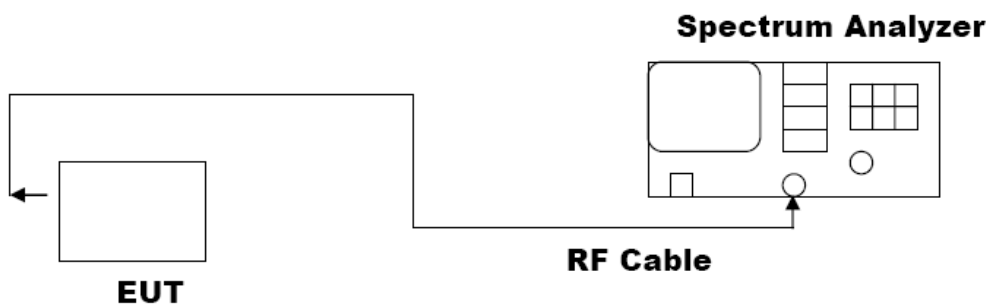
## 4. 6 DB BANDWIDTH

### 4.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Centre Frequency = Operation Frequency, RBW= 100 KHz, VBW $\geq 3 \times$  RBW.
4. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

### 4.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



**4.3. LIMITS AND MEASUREMENT RESULTS**

|                  |                           |
|------------------|---------------------------|
| <b>TEST ITEM</b> | 6DB BANDWIDTH             |
| <b>TEST MODE</b> | 802.11b with data rate 11 |

| <b>LIMITS AND MEASUREMENT RESULT</b> |                          |       |                 |
|--------------------------------------|--------------------------|-------|-----------------|
| <b>Applicable Limits</b>             | <b>Applicable Limits</b> |       |                 |
|                                      | <b>Test Data (MHz)</b>   |       | <b>Criteria</b> |
| >500KHZ                              | Low Channel              | 8.553 | PASS            |
|                                      | Middle Channel           | 8.102 | PASS            |
|                                      | High Channel             | 8.547 | PASS            |

|                  |                           |
|------------------|---------------------------|
| <b>TEST ITEM</b> | 6DB BANDWIDTH             |
| <b>TEST MODE</b> | 802.11g with data rate 54 |

| <b>LIMITS AND MEASUREMENT RESULT</b> |                          |       |                 |
|--------------------------------------|--------------------------|-------|-----------------|
| <b>Applicable Limits</b>             | <b>Applicable Limits</b> |       |                 |
|                                      | <b>Test Data (MHz)</b>   |       | <b>Criteria</b> |
| >500KHZ                              | Low Channel              | 16.36 | PASS            |
|                                      | Middle Channel           | 16.35 | PASS            |
|                                      | High Channel             | 16.35 | PASS            |

|                  |                              |
|------------------|------------------------------|
| <b>TEST ITEM</b> | 6DB BANDWIDTH                |
| <b>TEST MODE</b> | 802.11n 20 with data rate 65 |

| <b>LIMITS AND MEASUREMENT RESULT</b> |                          |       |                 |
|--------------------------------------|--------------------------|-------|-----------------|
| <b>Applicable Limits</b>             | <b>Applicable Limits</b> |       |                 |
|                                      | <b>Test Data (MHz)</b>   |       | <b>Criteria</b> |
| >500KHZ                              | Low Channel              | 17.31 | PASS            |
|                                      | Middle Channel           | 17.29 | PASS            |
|                                      | High Channel             | 17.30 | PASS            |

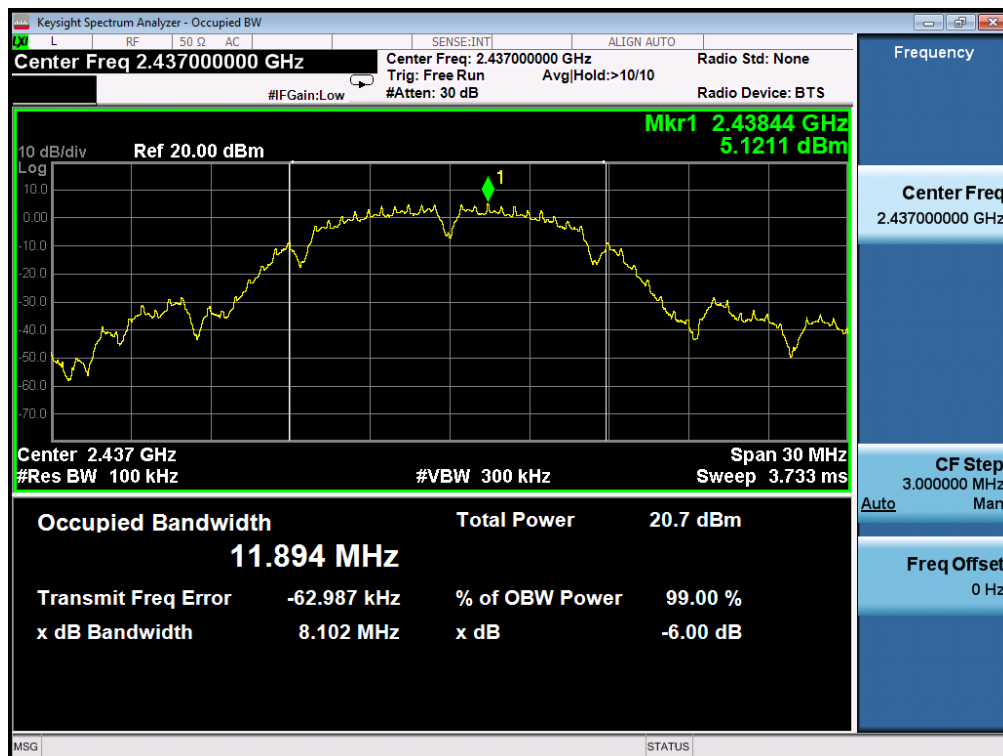


### 802.11b TEST RESULT

#### TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



#### TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



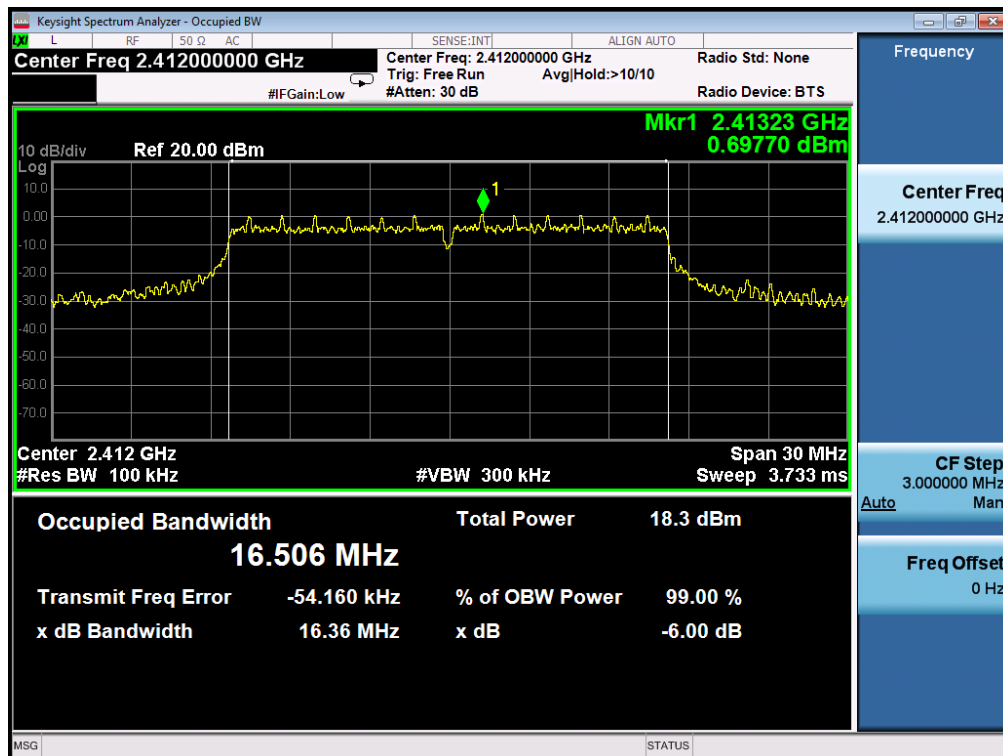


## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



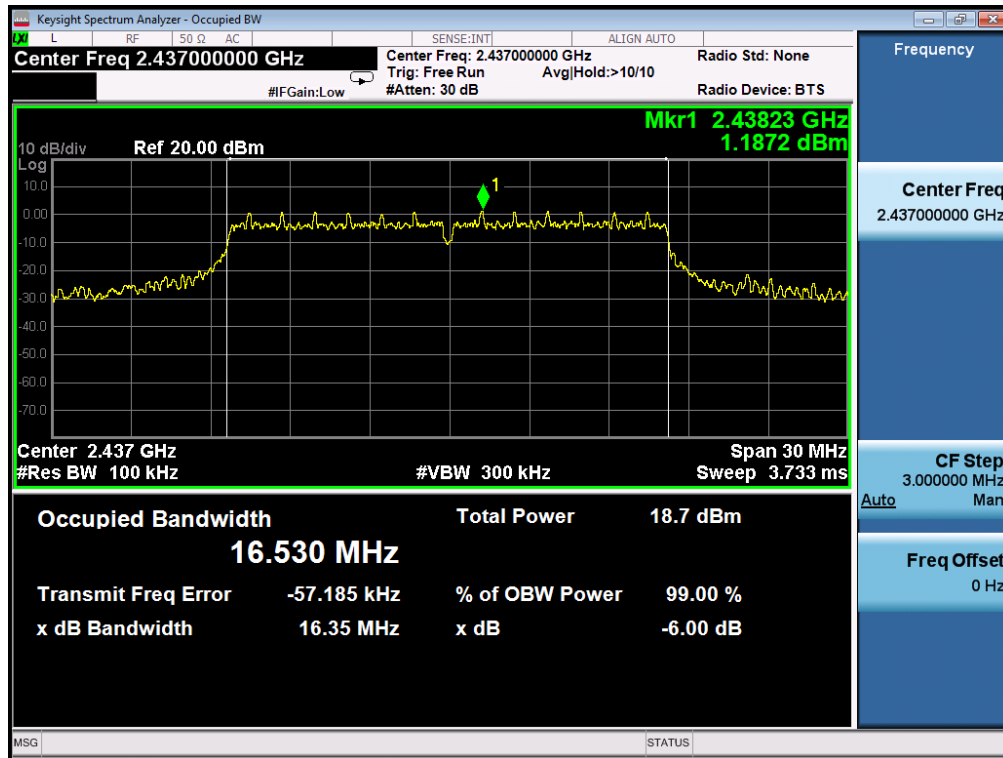
## 802.11g TEST RESULT

## TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

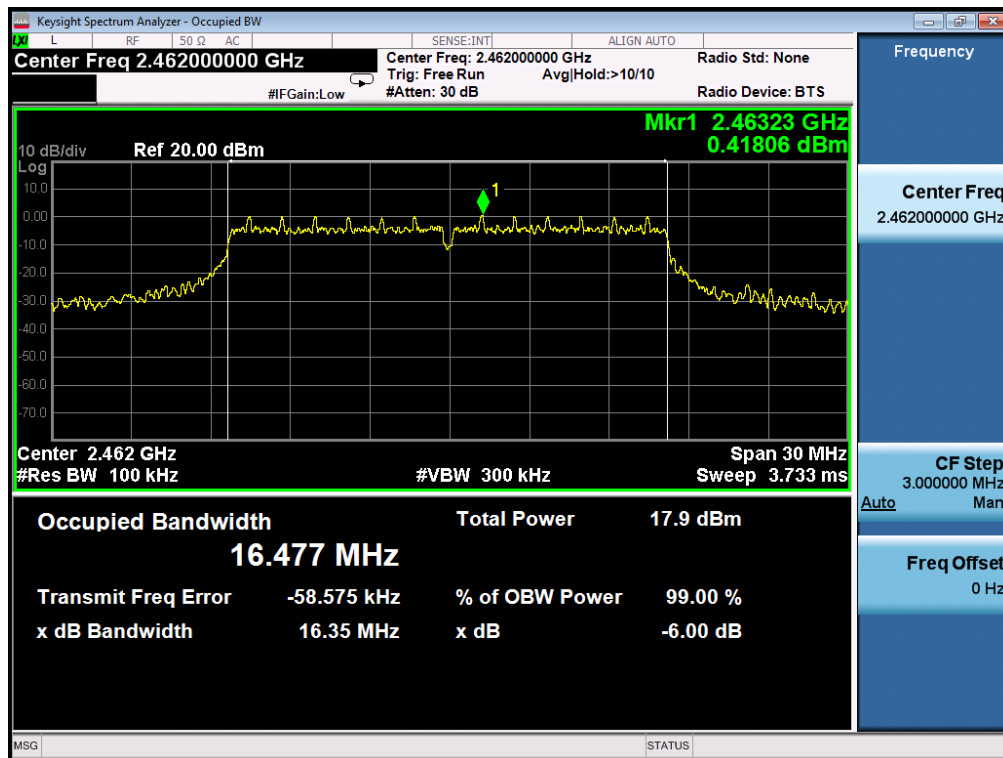


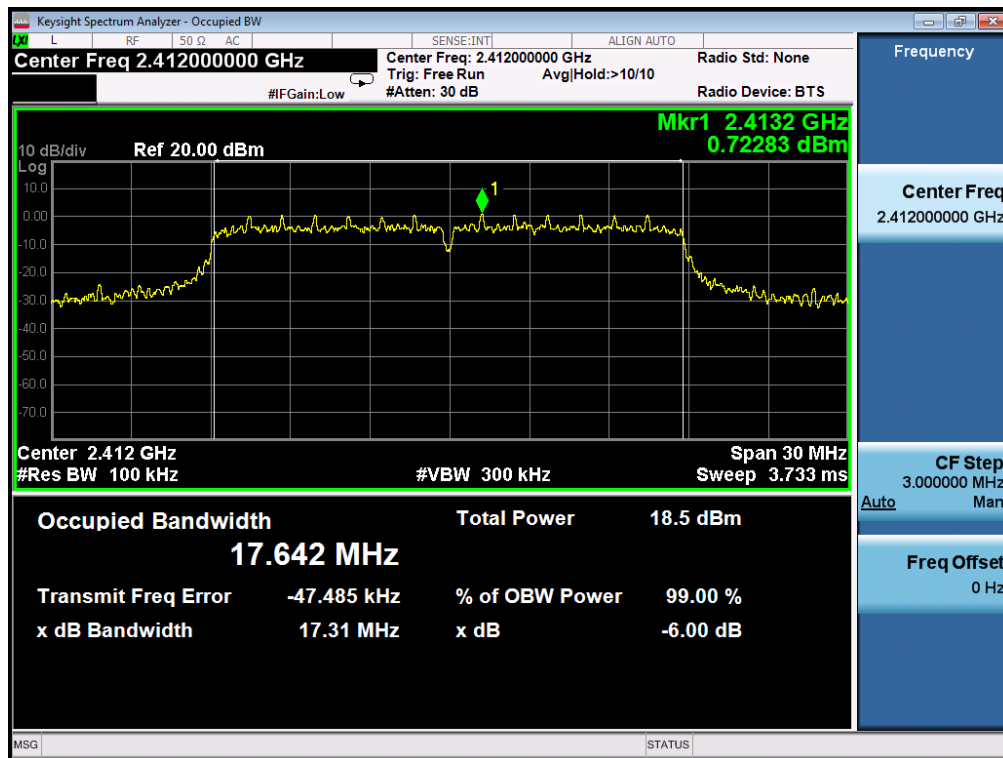
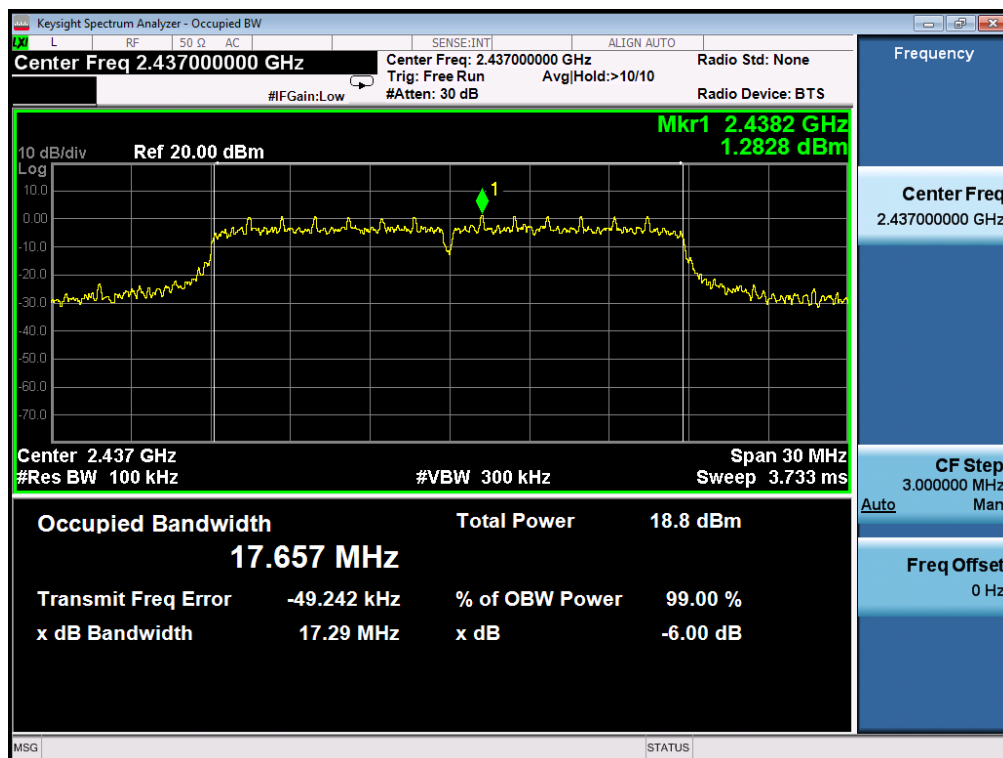


## TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



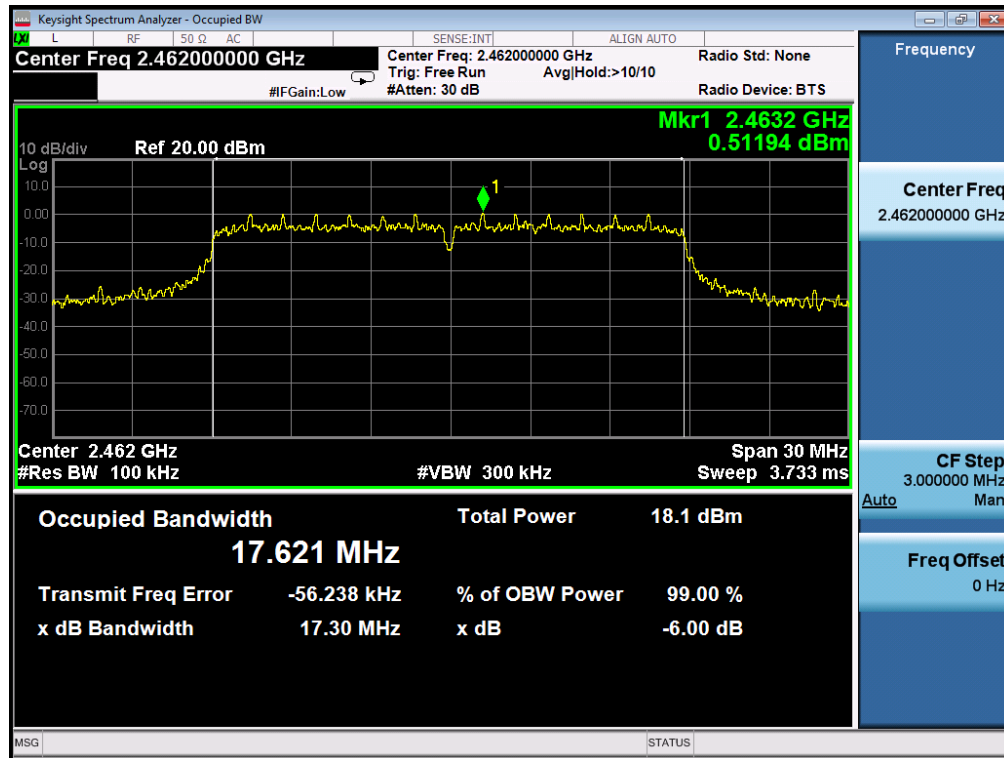
## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



**802.11n (20) TEST RESULT****TEST PLOT OF BANDWIDTH FOR LOW CHANNEL****TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL**



## TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL





## 5. CONDUCTED SPURIOUS EMISSION

### 5.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set SPA Trace 1 Max hold, then View.

**Note:** The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements. Owing to satisfy the requirements of the number of measurement points, we set the RBW=1MHz, VBW>RBW, scan up through 10th harmonic, and consider the tested results as the worst case, if the tested results conform to the requirement, we can deem that the real tested results(set the RBW=100KHz, VBW>RBW) are conform to the requirement.

### 5.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

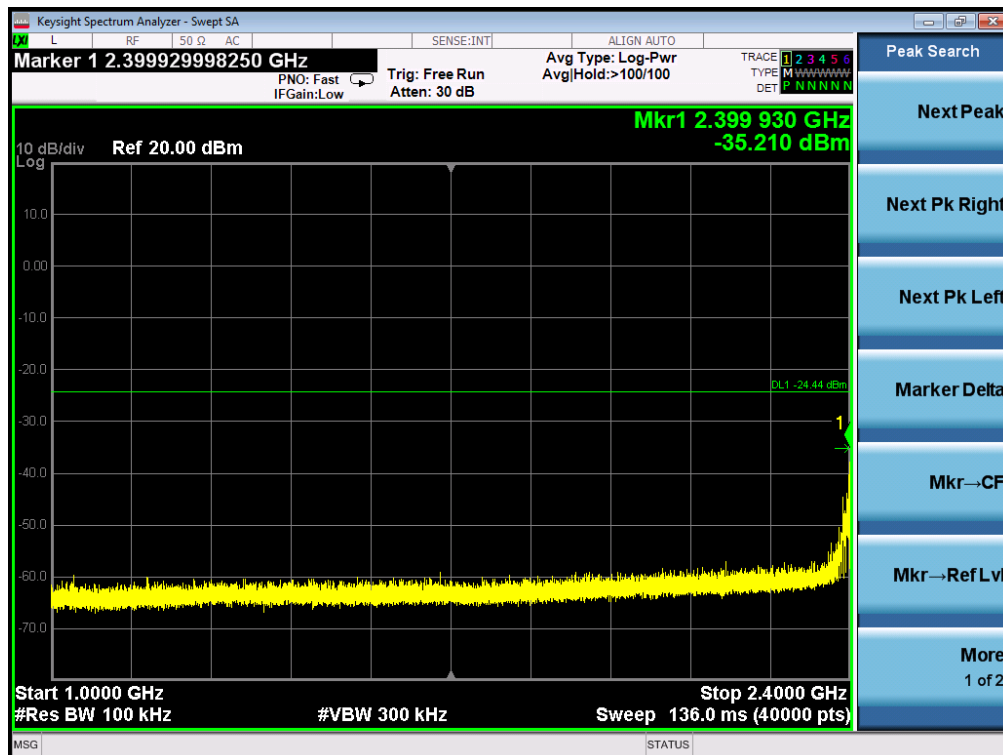
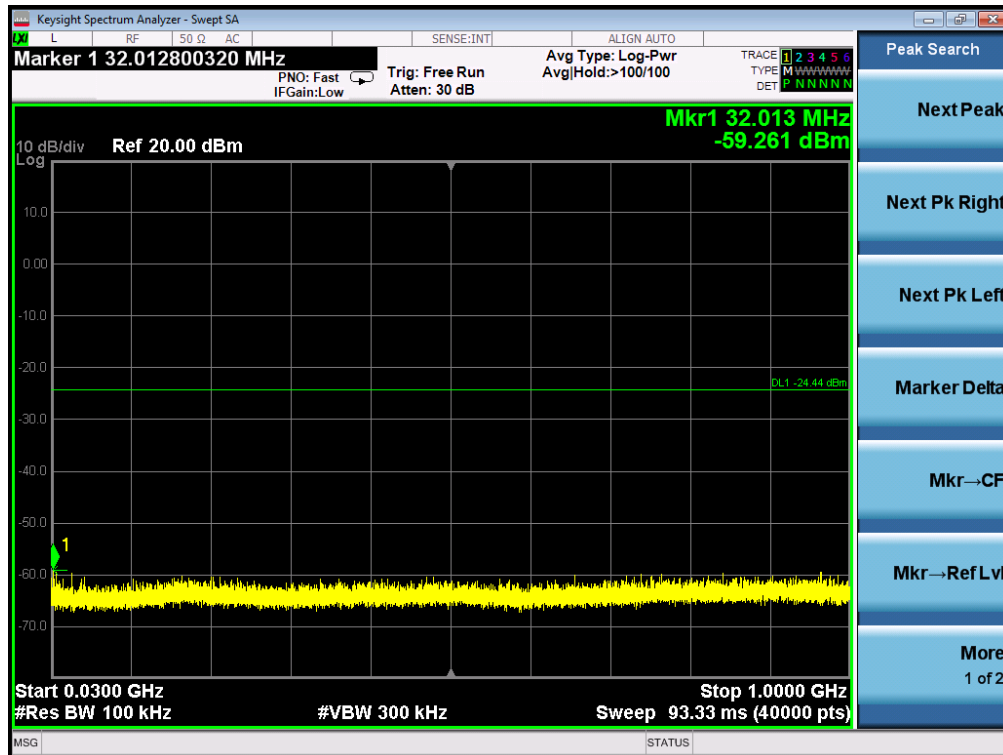
The same as described in section 4.2.

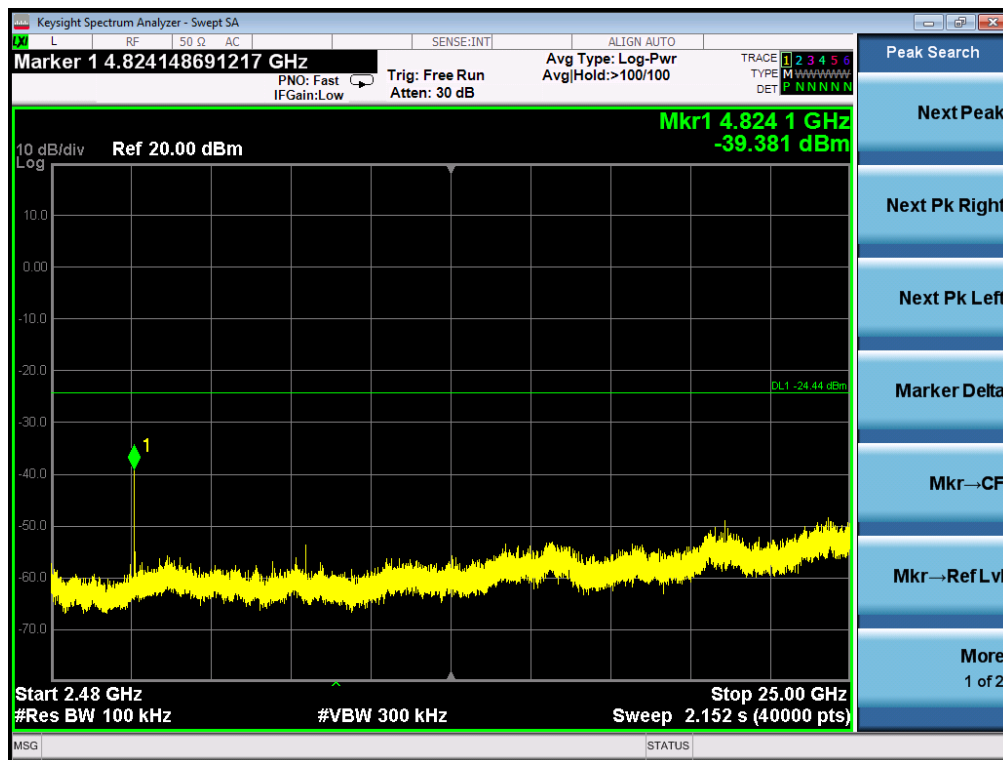
### 5.3. LIMITS AND MEASUREMENT RESULT

| LIMITS AND MEASUREMENT RESULT                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------|
| Applicable Limits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Measurement Result                                             |          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Test Data                                                      | Criteria |
| In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 30 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power.<br>In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a)) | At least -30dBc than the limit Specified on the BOTTOM Channel | PASS     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | At least -30dBc than the limit Specified on the TOP Channel    | PASS     |

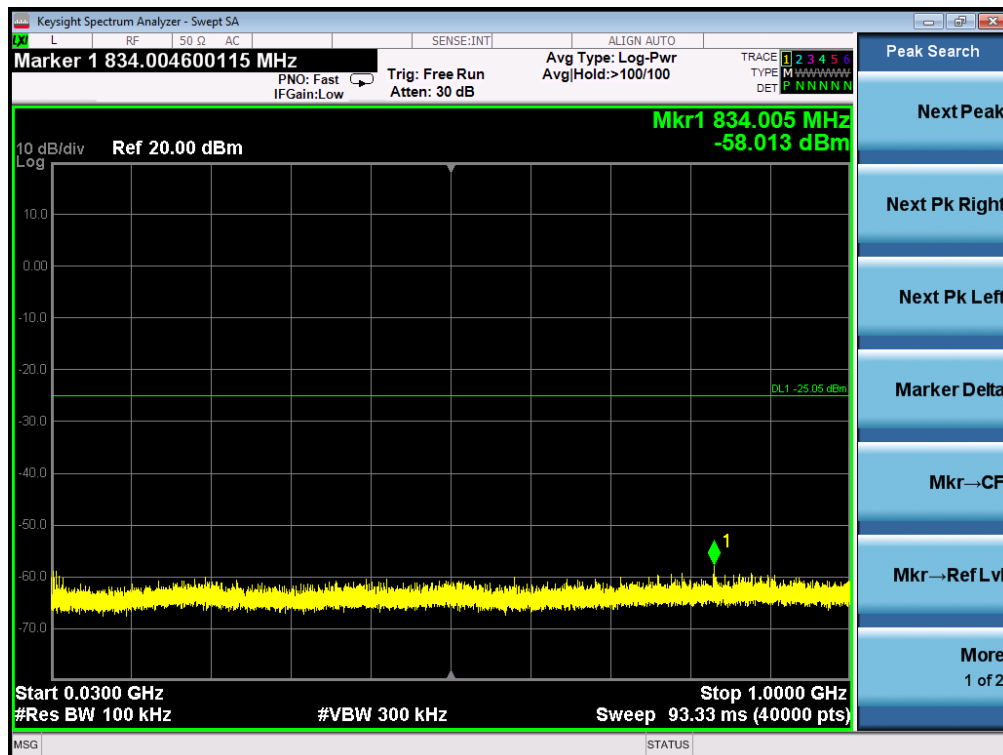


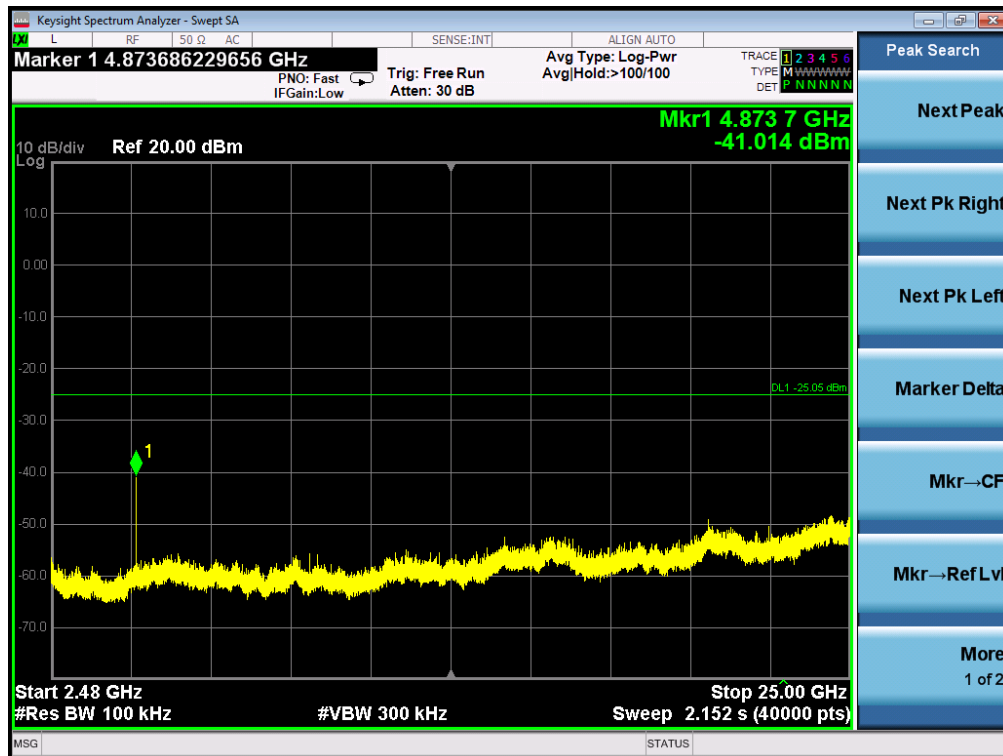
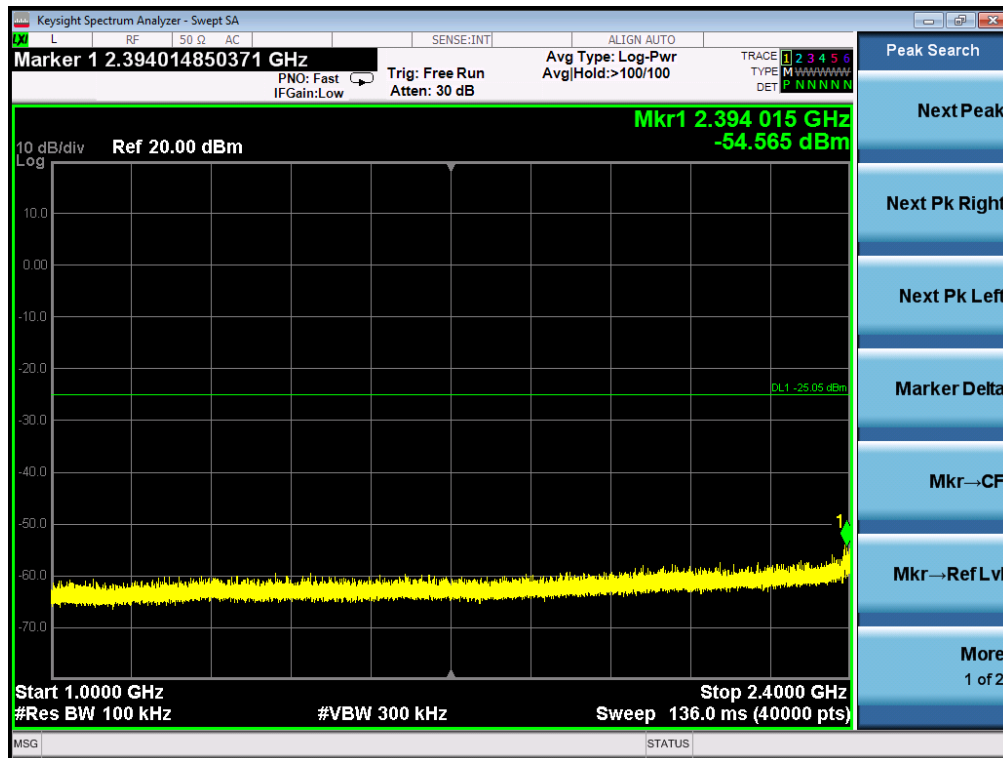
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE  
OF 802.11b FOR MODULATION IN LOW CHANNEL





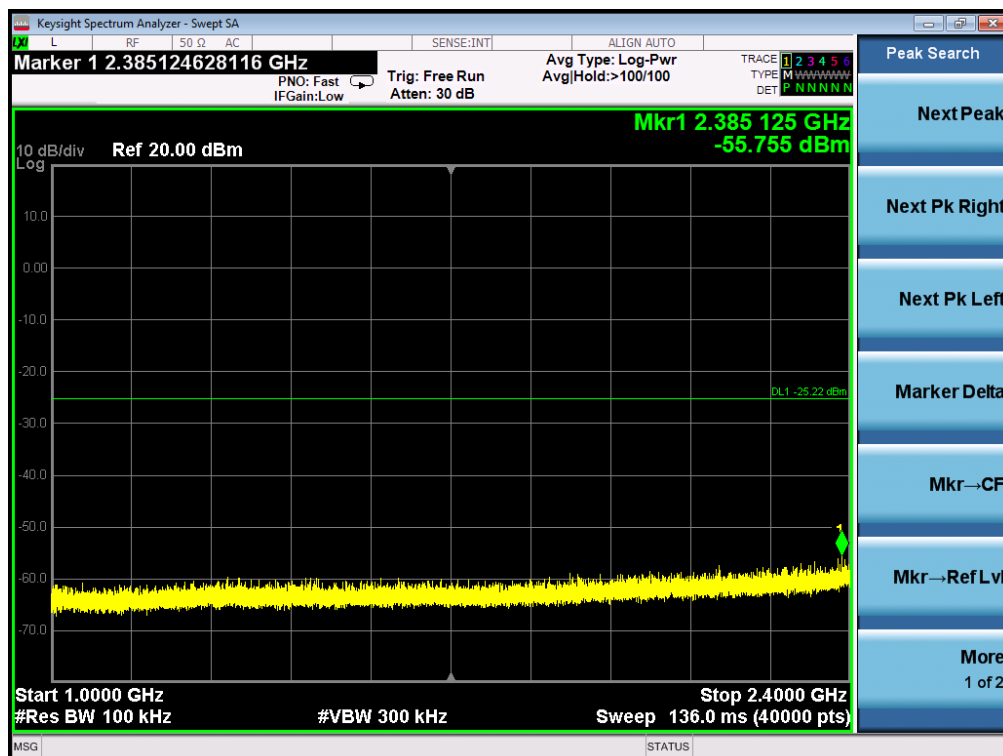
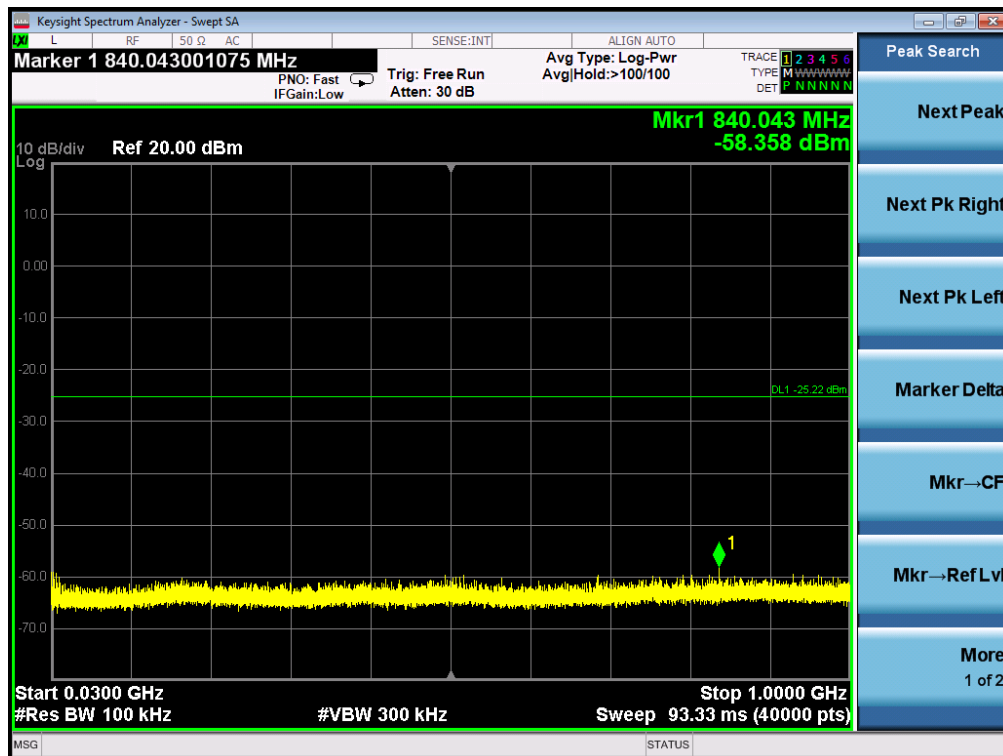
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE  
OF 802.11b FOR MODULATION IN MIDDLE CHANNEL

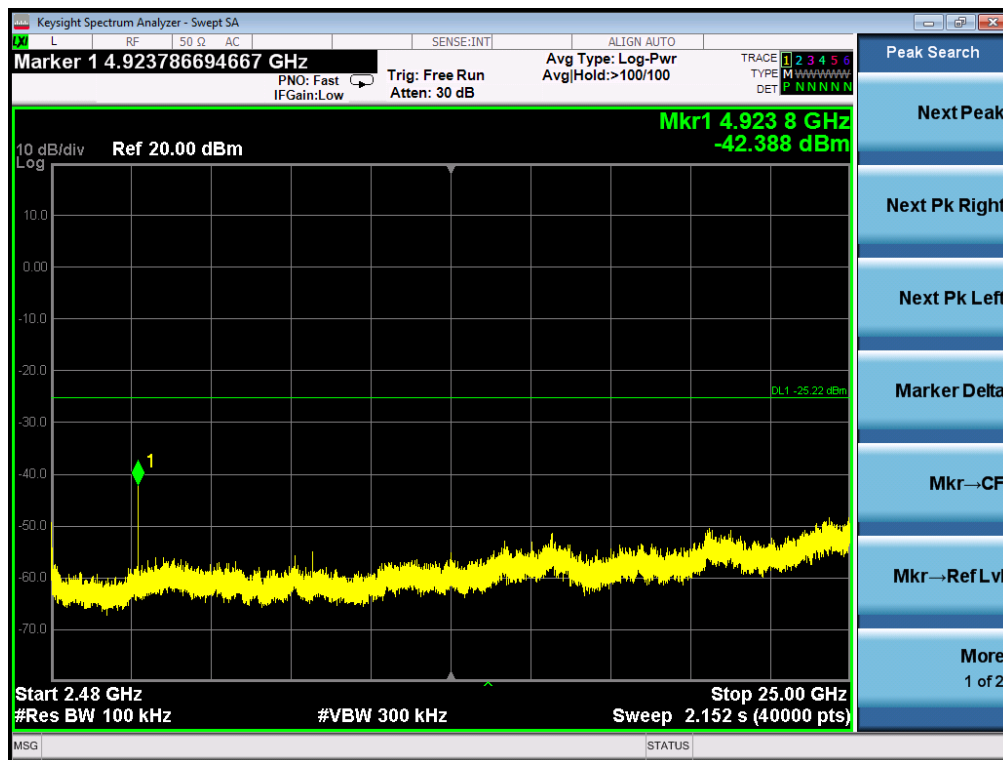




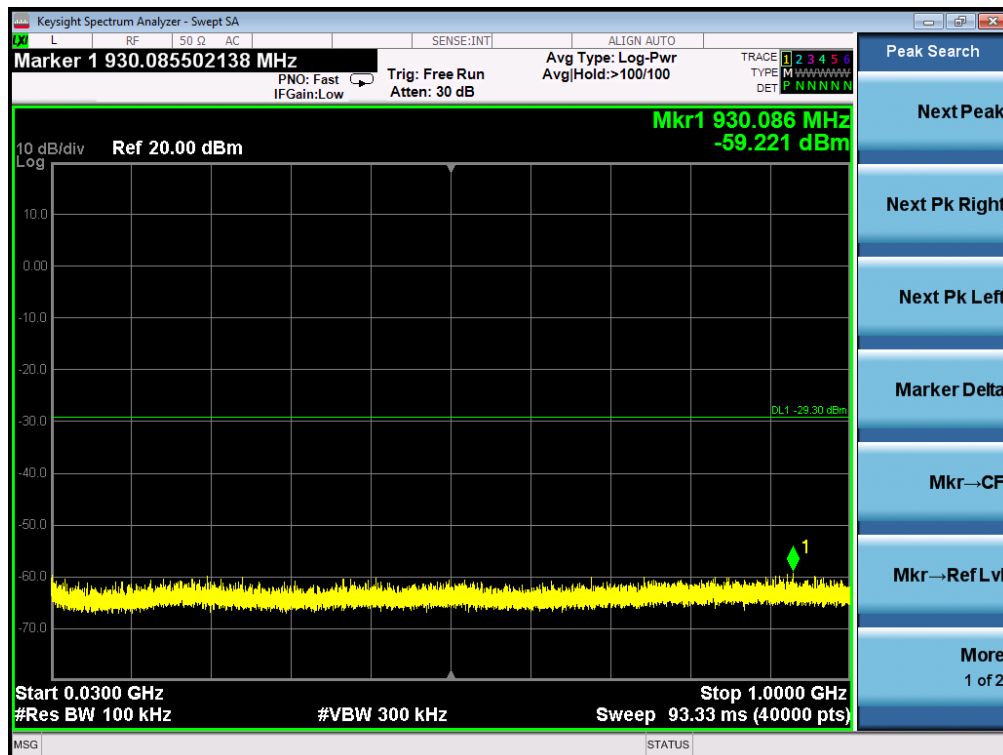


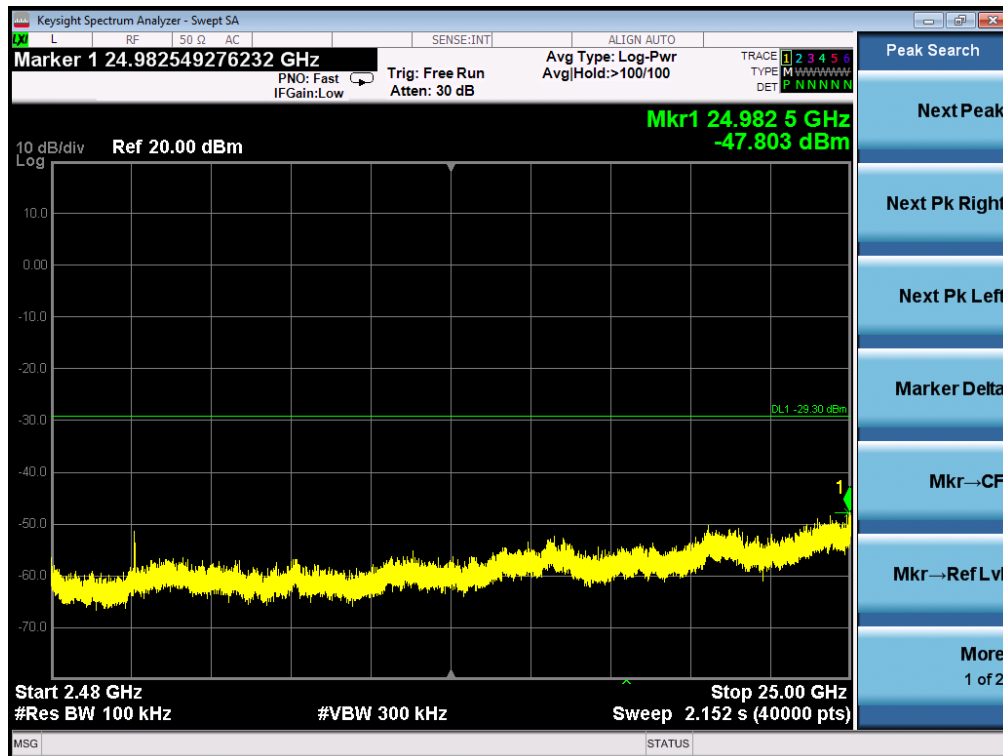
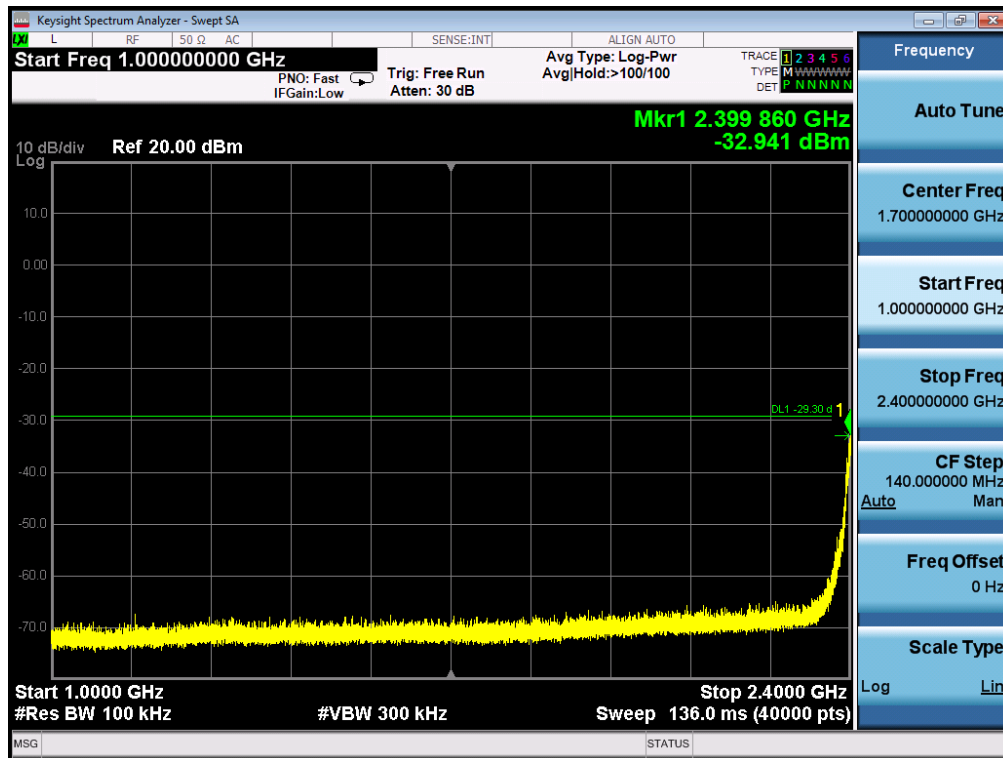
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE  
OF 802.11b FOR MODULATION IN HIGH CHANNEL





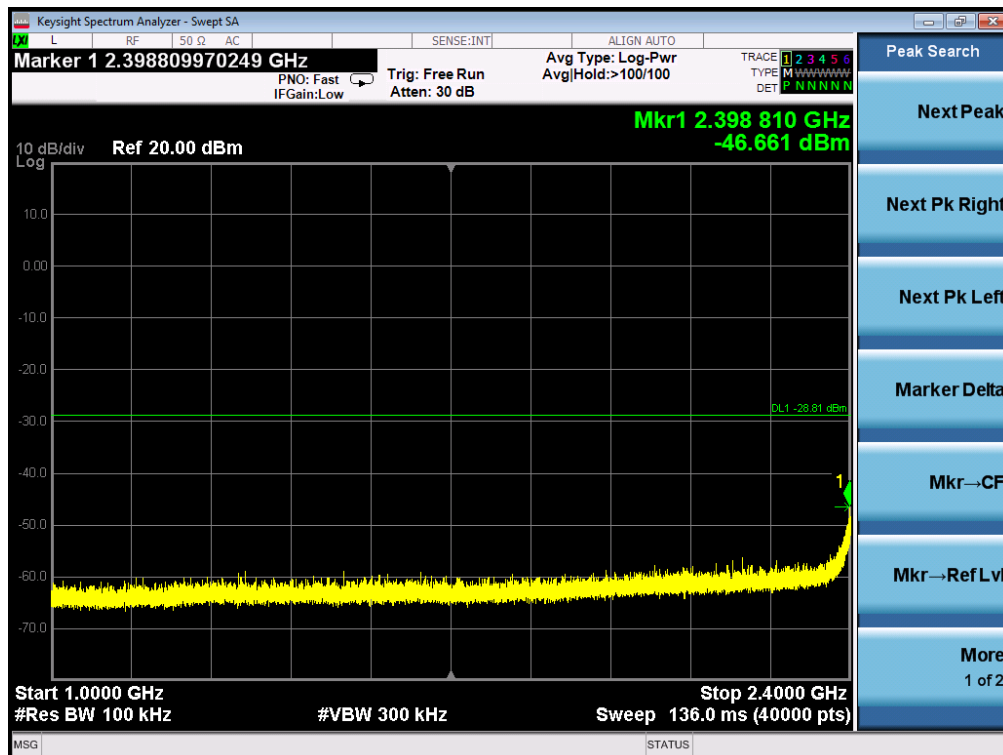
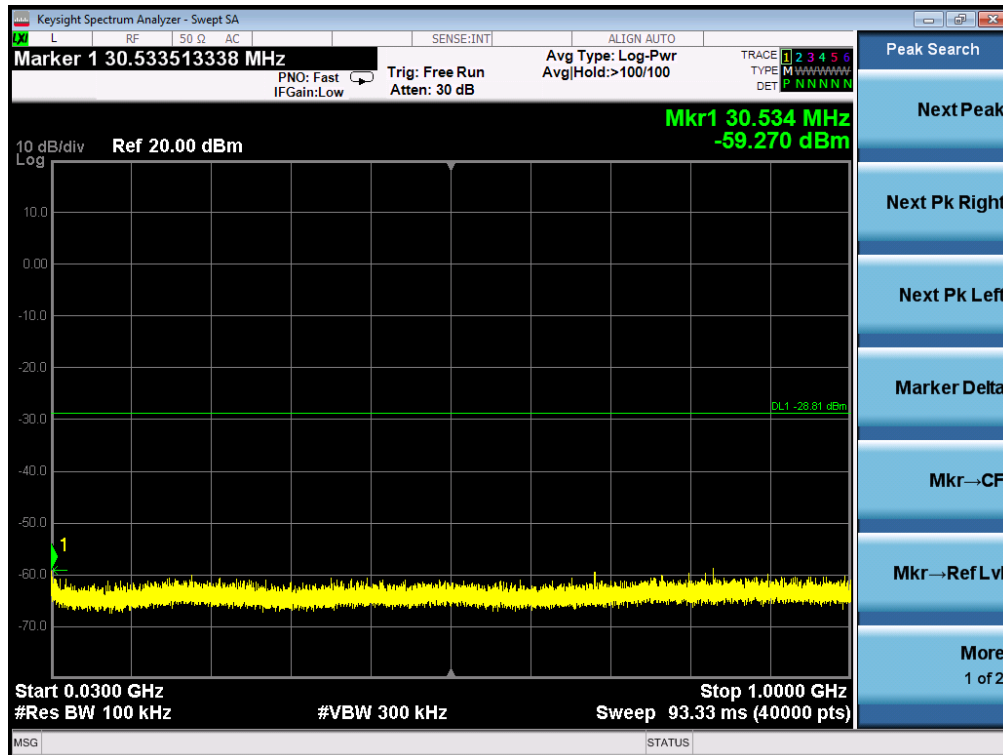
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE OF 802.11g FOR MODULATION IN LOW CHANNEL

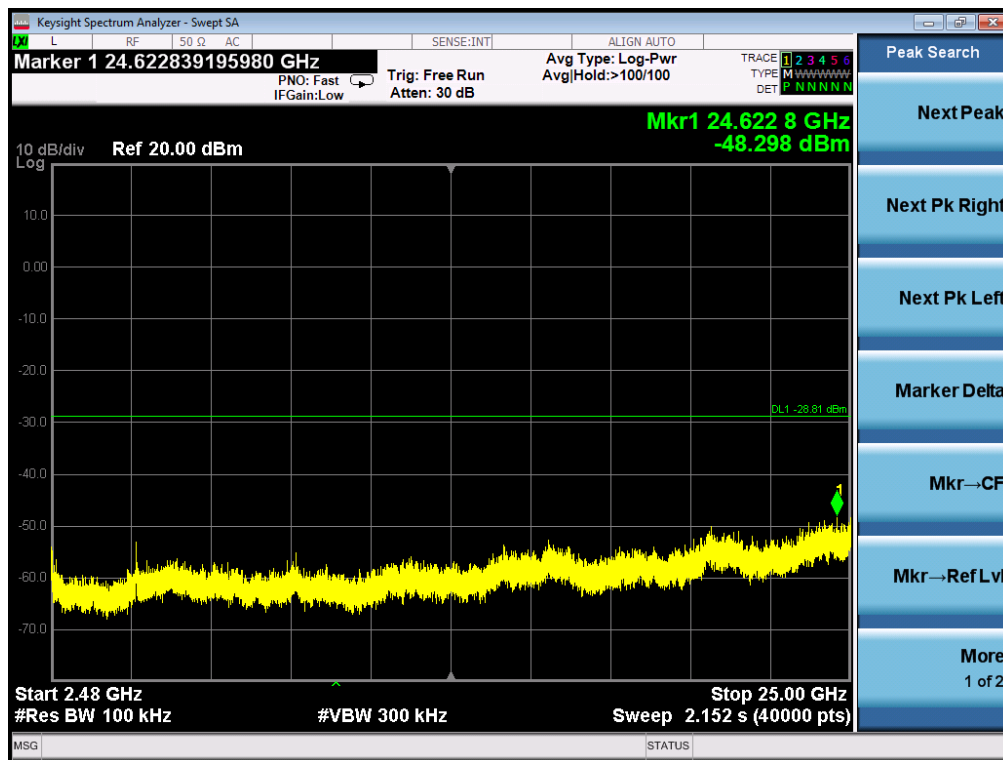




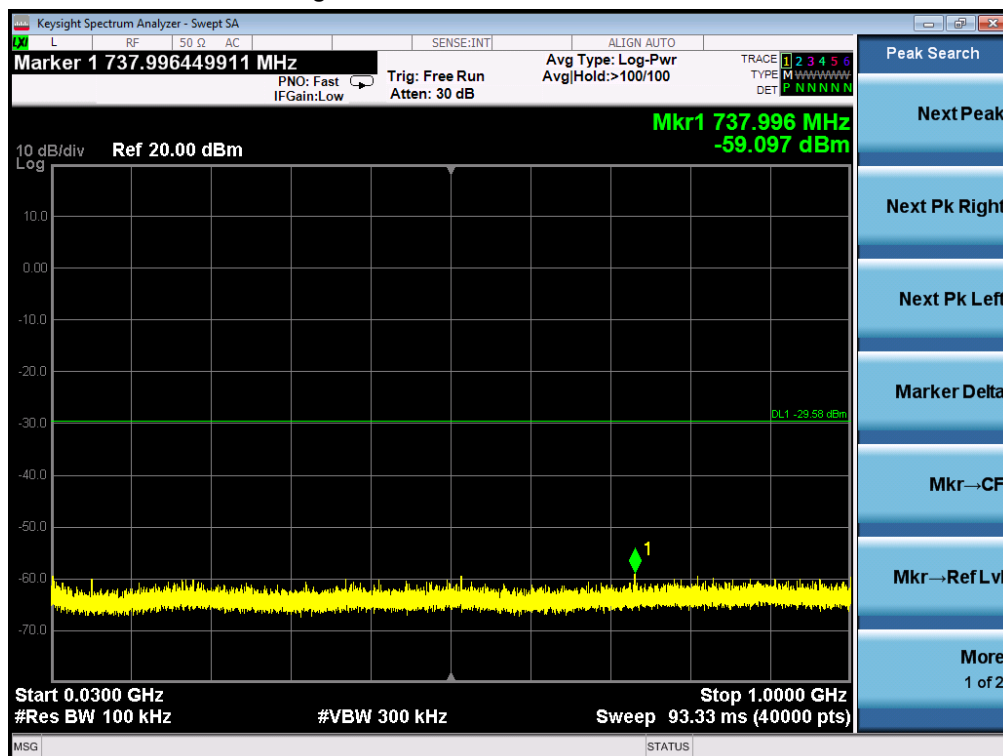


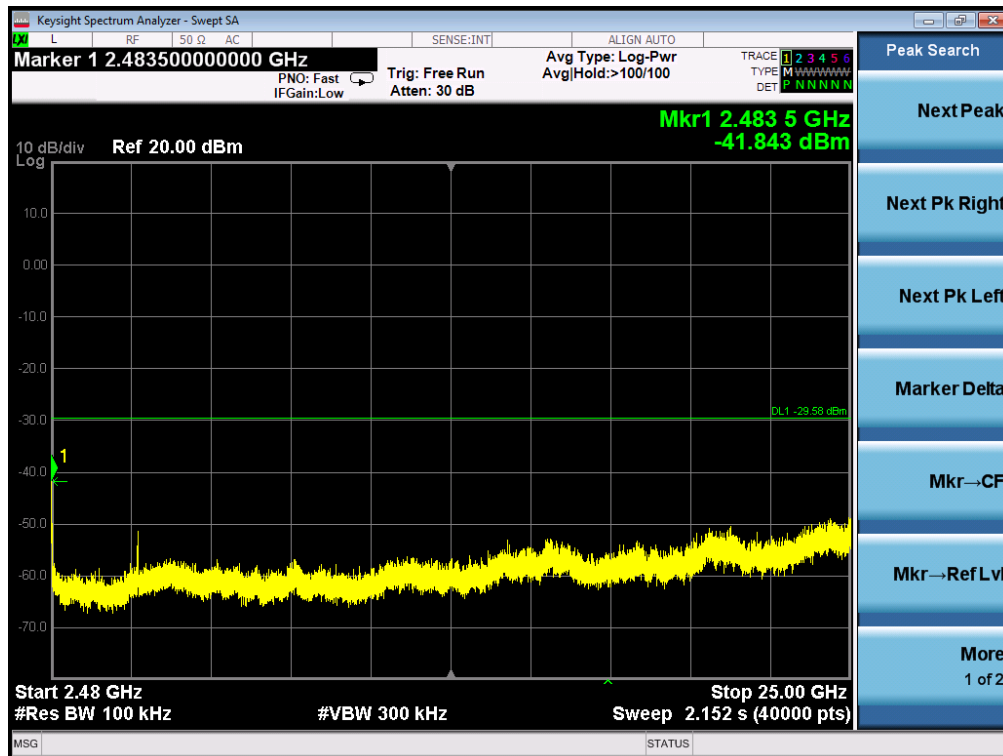
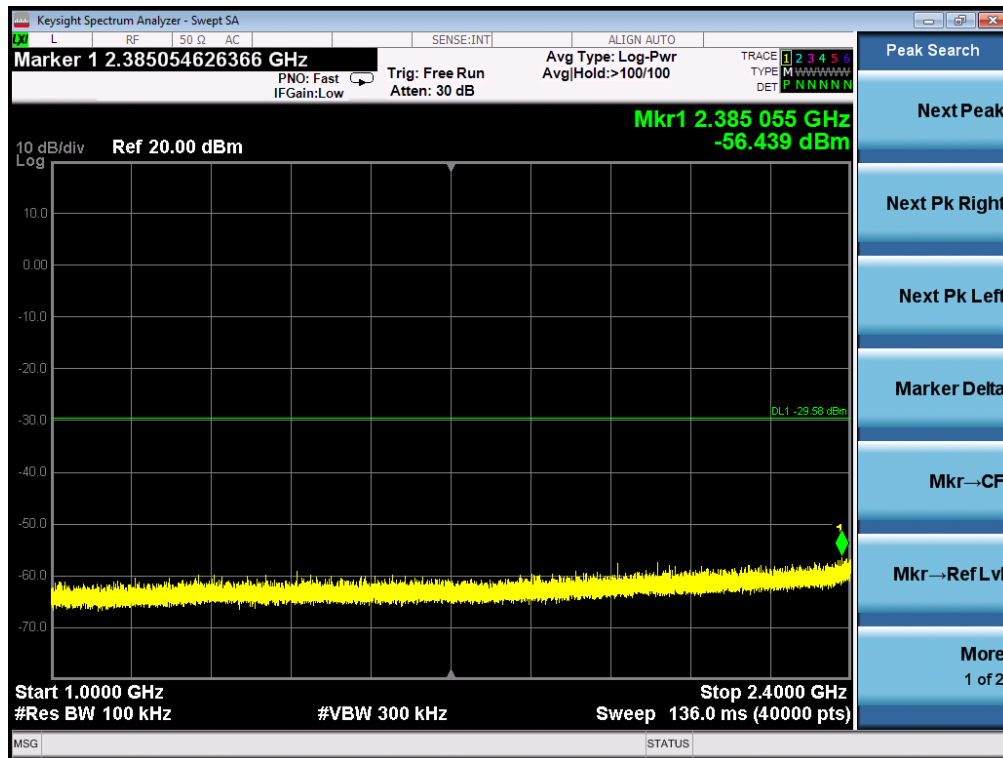
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE  
OF 802.11g FOR MODULATION IN MIDDLE CHANNEL





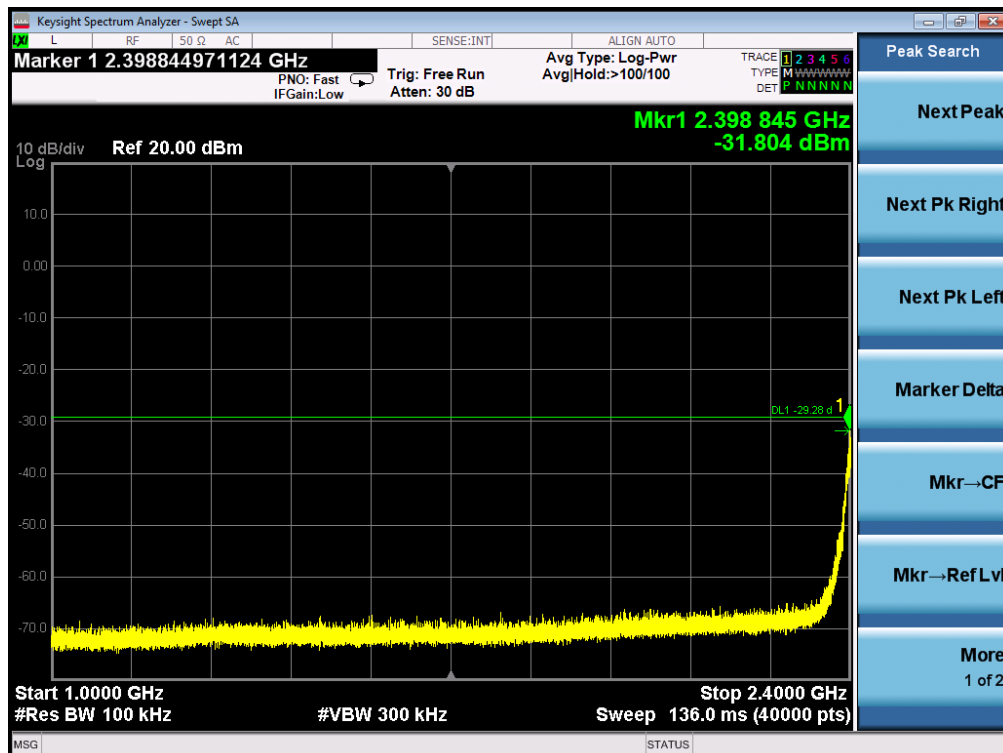
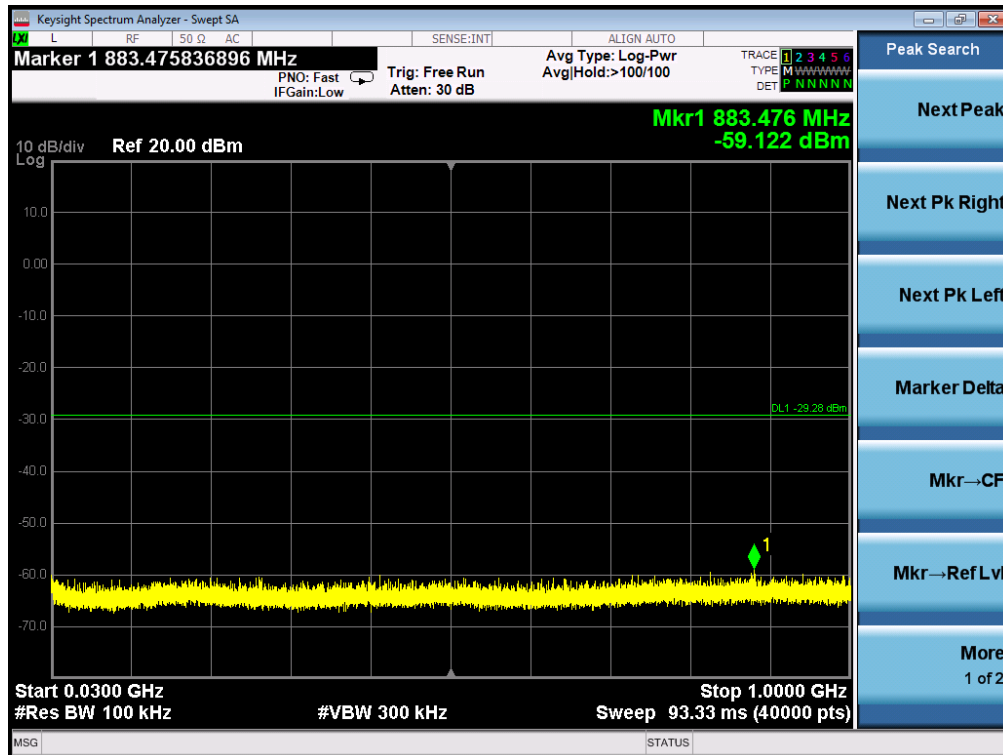
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE  
OF 802.11g FOR MODULATION IN HIGH CHANNEL

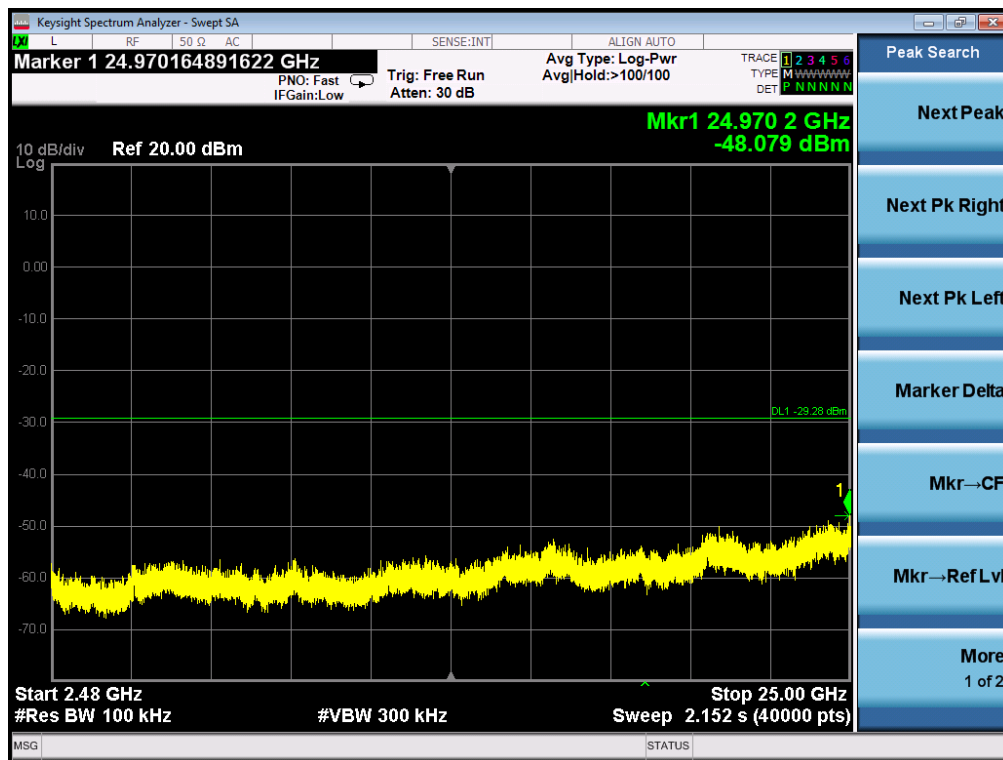




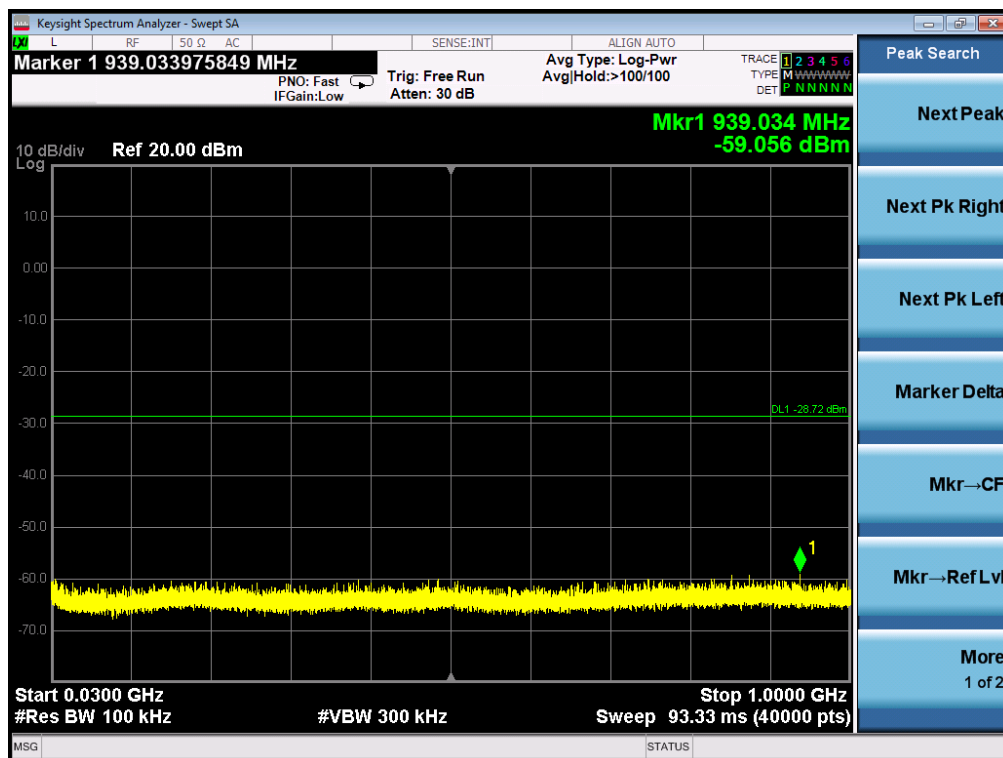


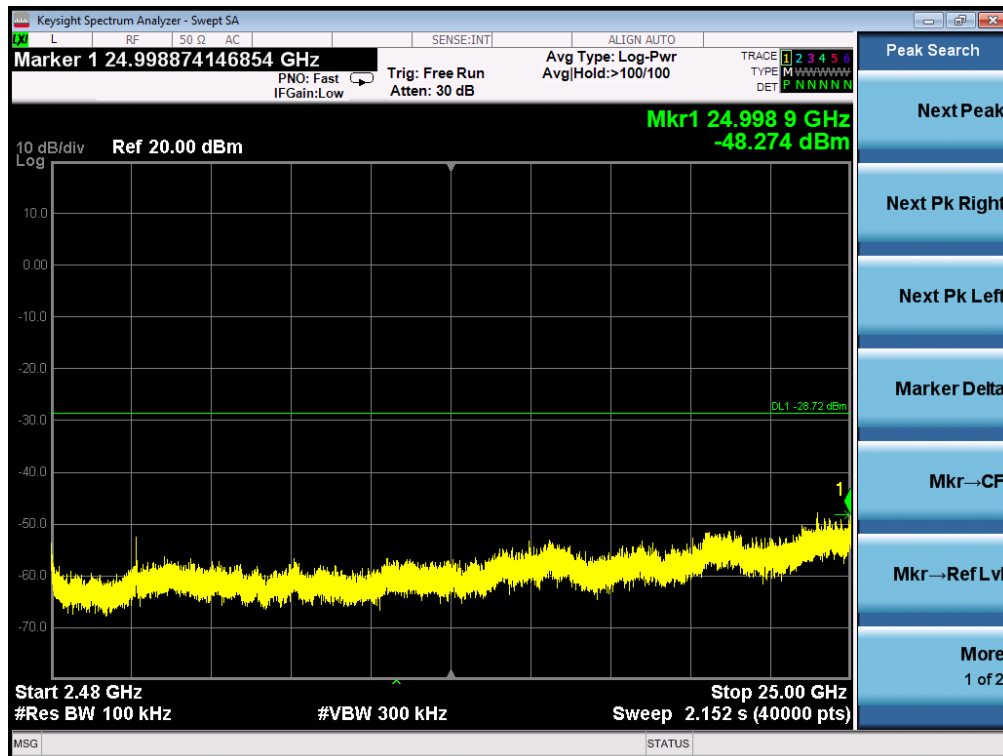
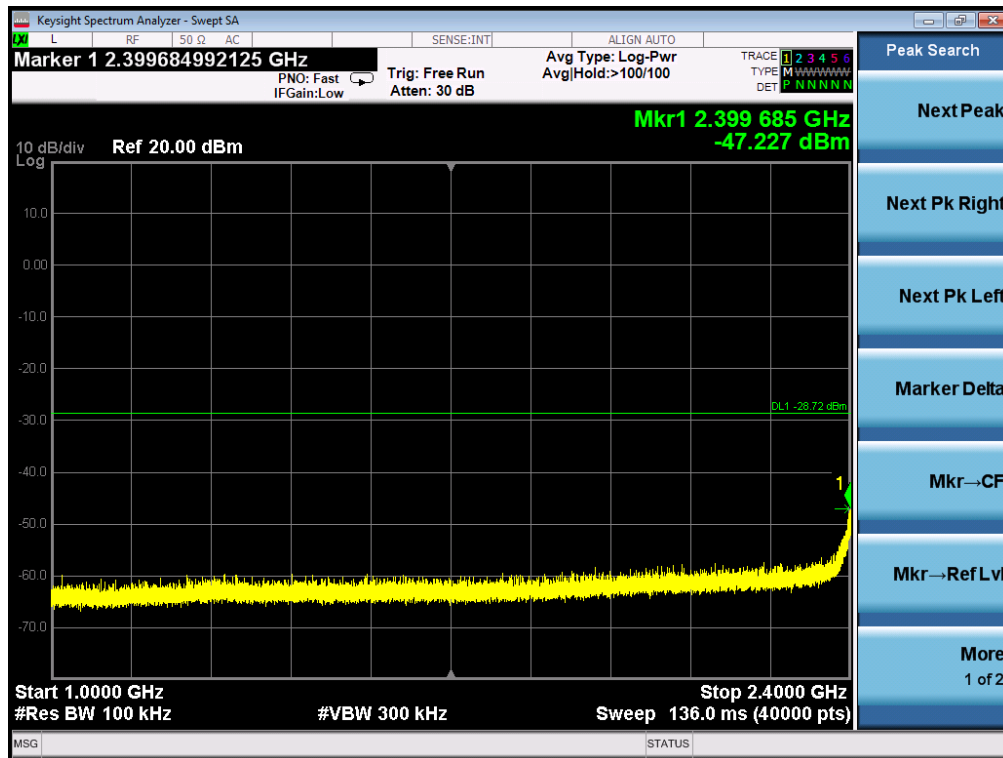
TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE  
OF 802.11n20 FOR MODULATION IN LOW CHANNEL





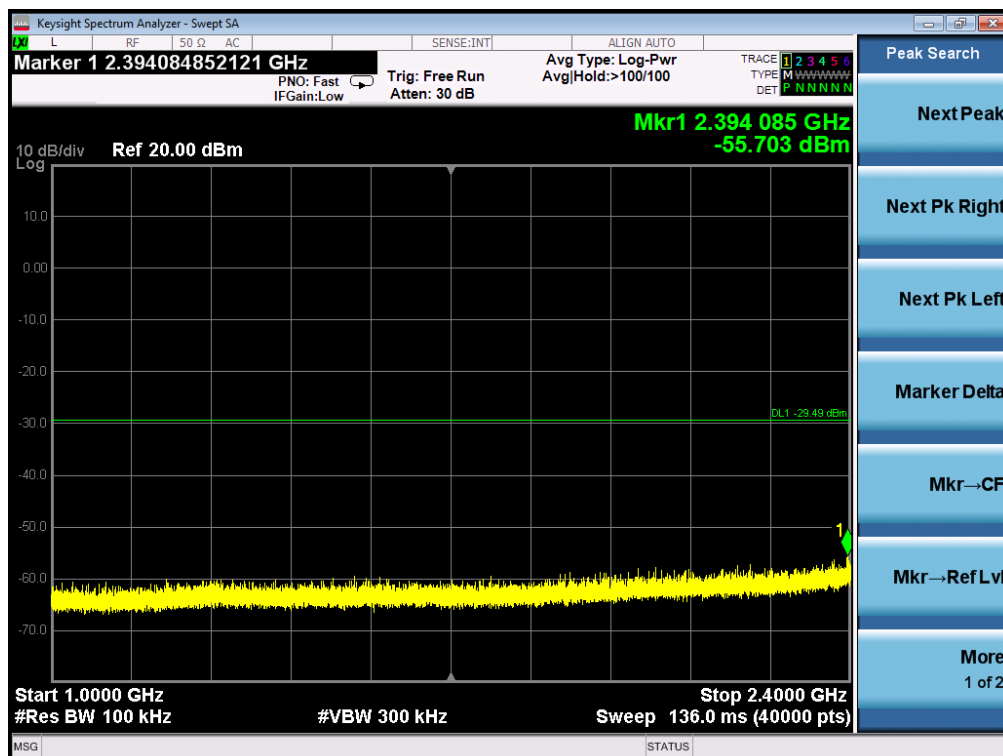
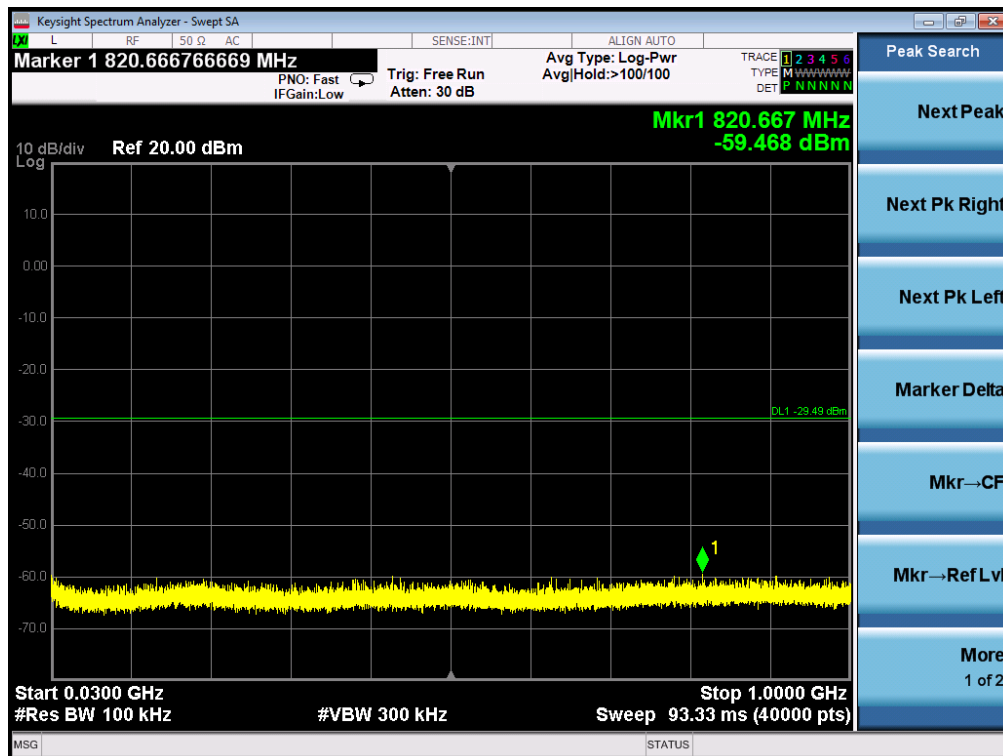
TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE  
OF 802.11n20 FOR MODULATION IN MIDDLE CHANNEL

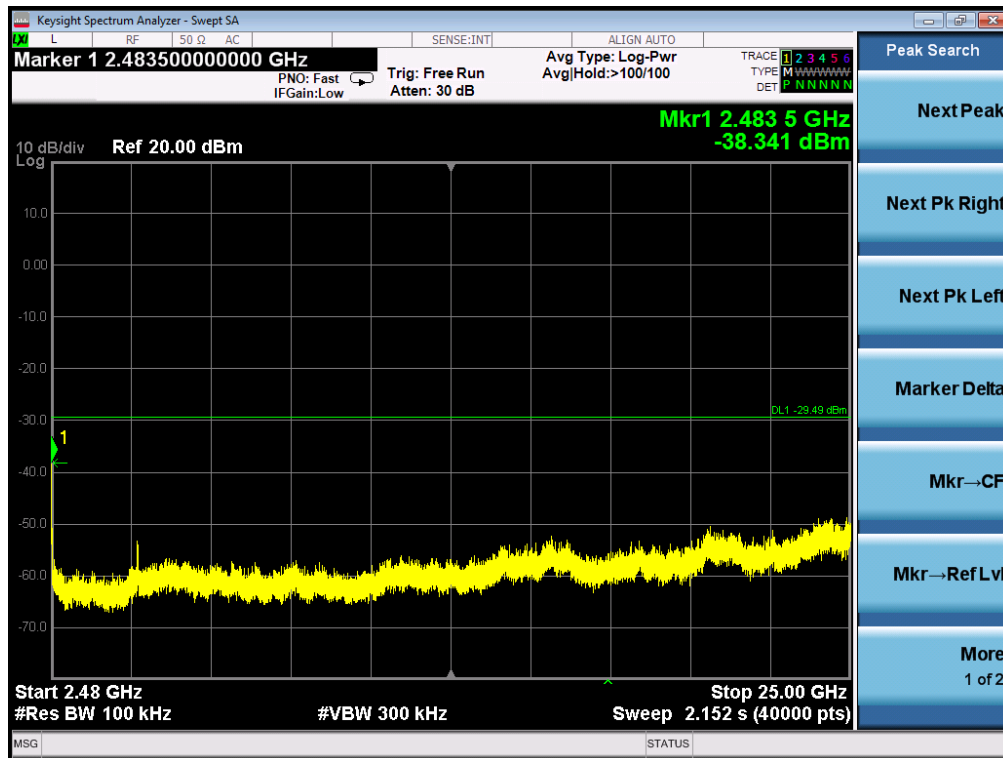






TEST PLOT OF OUT OF BAND EMISSIONS THE WORST CASE  
OF 802.11n20 FOR MODULATION IN HIGH CHANNEL







## 6. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

### 6.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of AVGPDS-1 in the ANSI C63.10 (2013) item 11.10 was used in this testing.

### 6.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 4.2.

### 6.3 LIMITS AND MEASUREMENT RESULT

| TEST ITEM | POWER SPECTRAL DENSITY   |
|-----------|--------------------------|
| TEST MODE | 802.11b with data rate 1 |

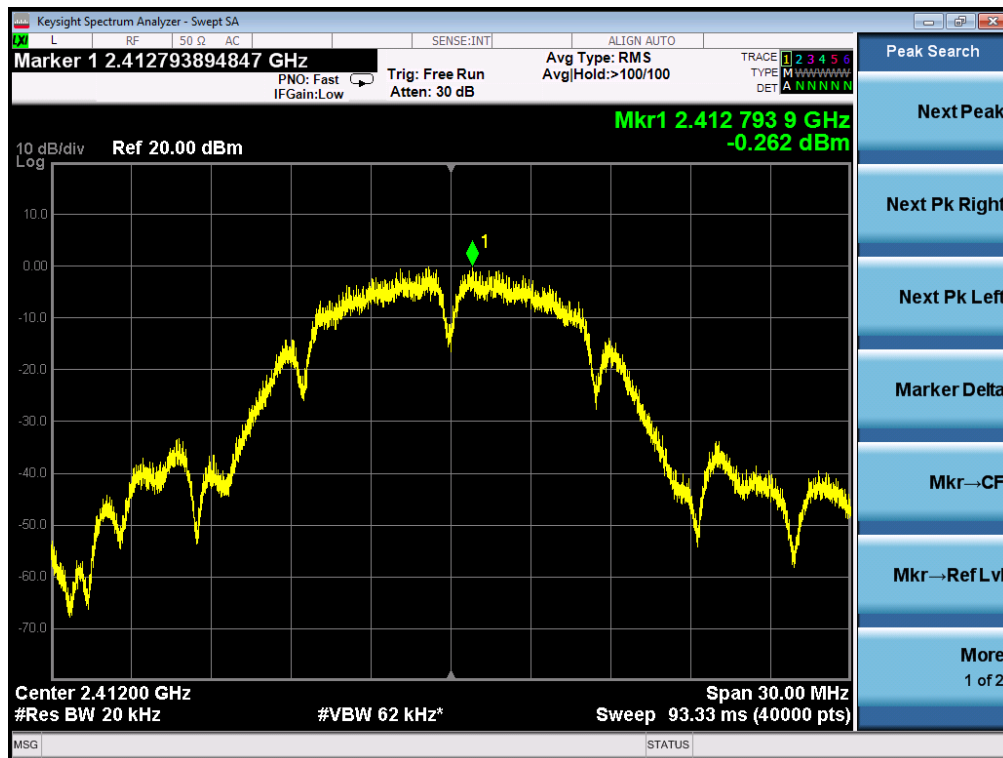
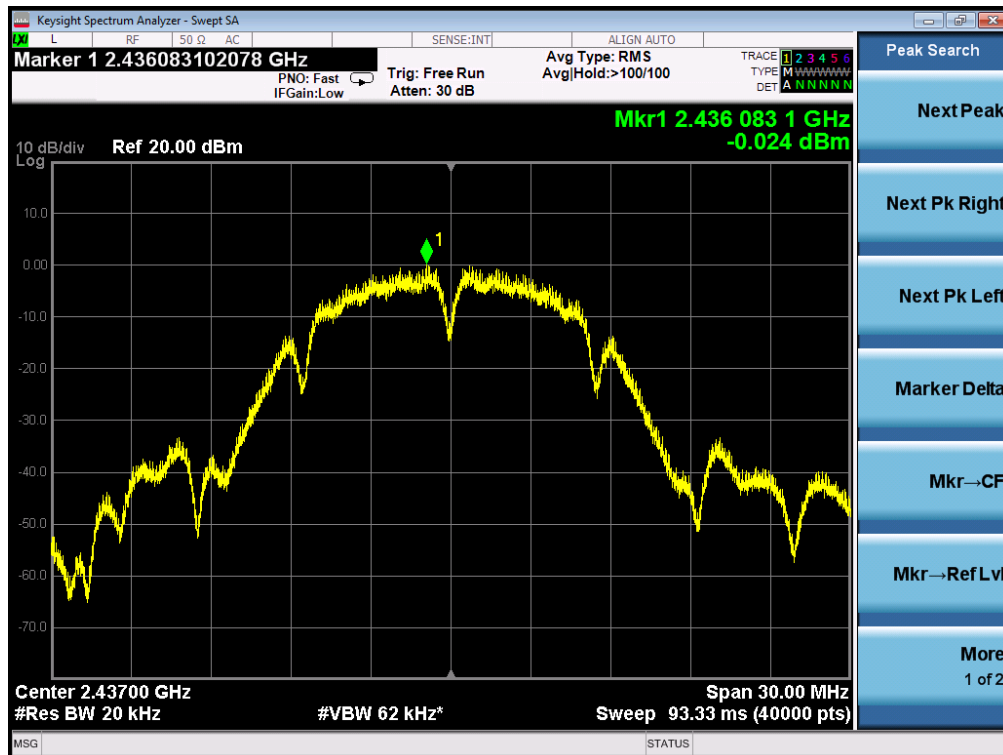
| Channel No.    | Power density<br>(dBm/20kHz) | Limit<br>(dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel    | -0.262                       | 8                   | Pass   |
| Middle Channel | -0.024                       | 8                   | Pass   |
| High Channel   | -0.665                       | 8                   | Pass   |

| TEST ITEM | POWER SPECTRAL DENSITY   |
|-----------|--------------------------|
| TEST MODE | 802.11g with data rate 6 |

| Channel No.    | Power density<br>(dBm/20kHz) | Limit<br>(dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel    | -5.014                       | 8                   | Pass   |
| Middle Channel | -4.745                       | 8                   | Pass   |
| High Channel   | -5.477                       | 8                   | Pass   |

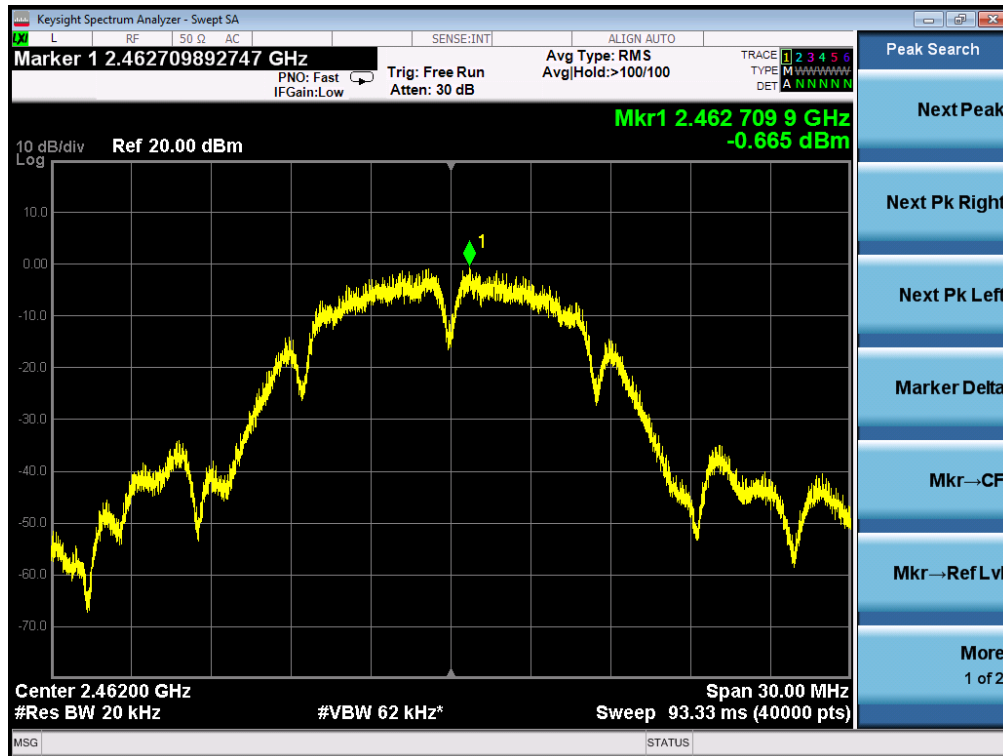
| TEST ITEM | POWER SPECTRAL DENSITY        |
|-----------|-------------------------------|
| TEST MODE | 802.11n 20 with data rate 6.5 |

| Channel No.    | Power density<br>(dBm/20kHz) | Limit<br>(dBm/3kHz) | Result |
|----------------|------------------------------|---------------------|--------|
| Low Channel    | -4.281                       | 8                   | Pass   |
| Middle Channel | -3.956                       | 8                   | Pass   |
| High Channel   | -4.775                       | 8                   | Pass   |

**802.11b TEST RESULT****TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL****TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL**

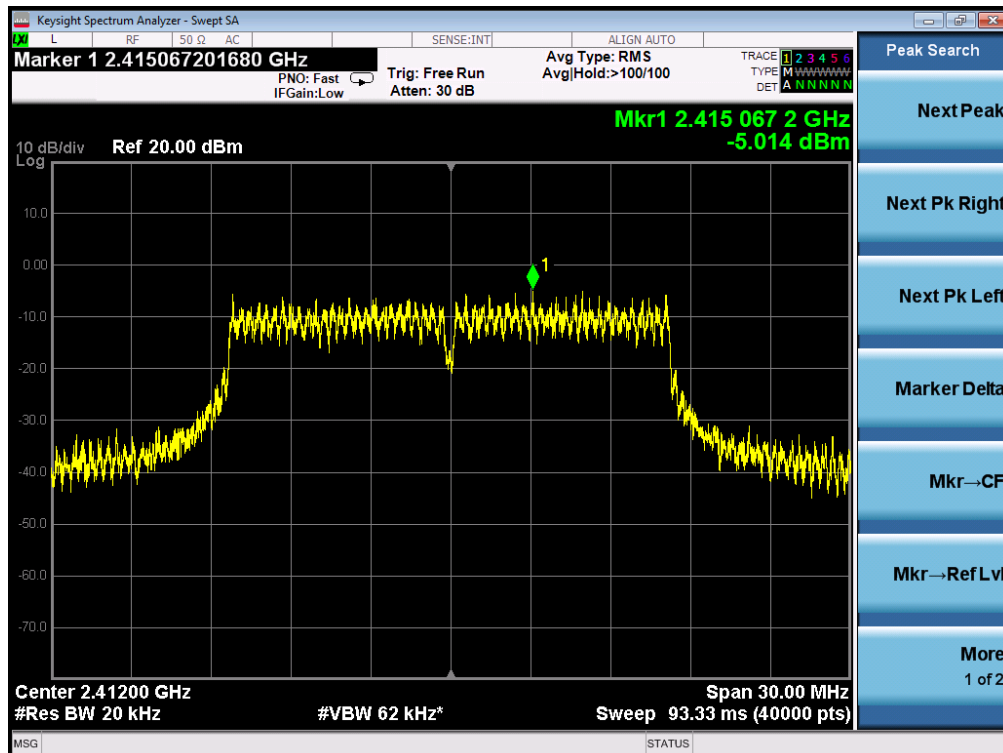


## TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



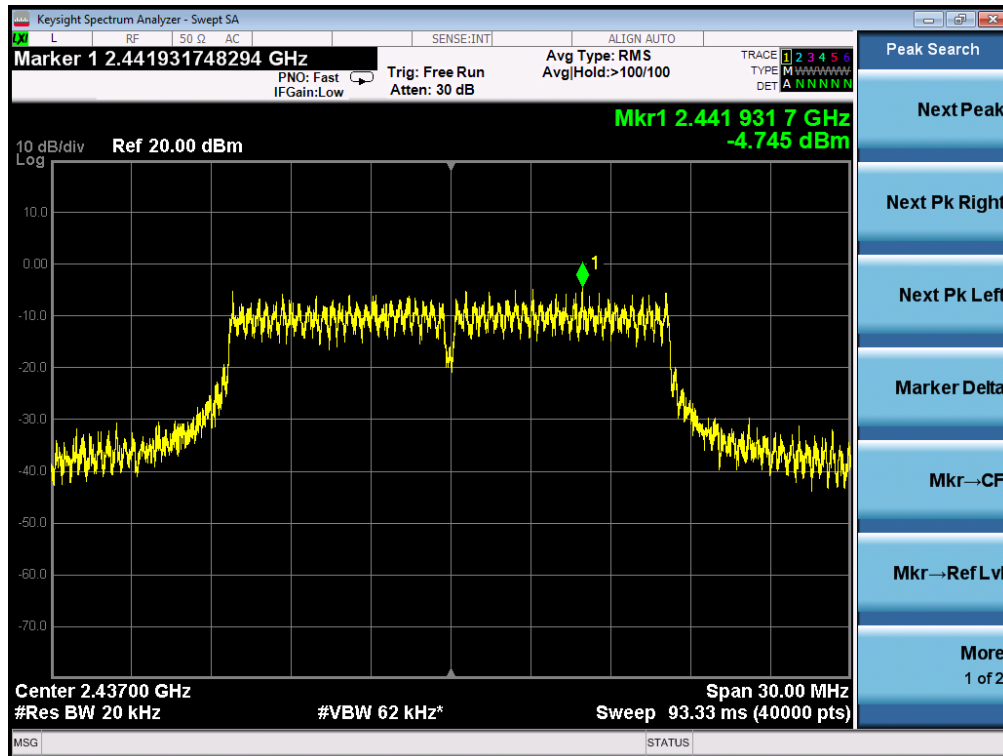
## 802.11g TEST RESULT

## TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

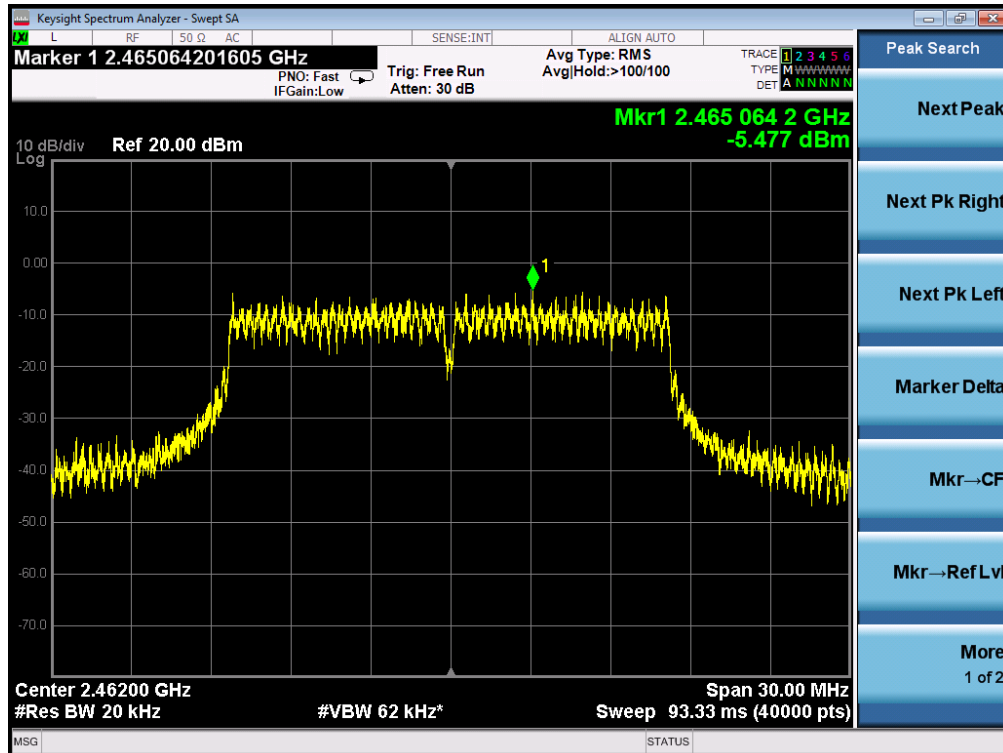




## TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL



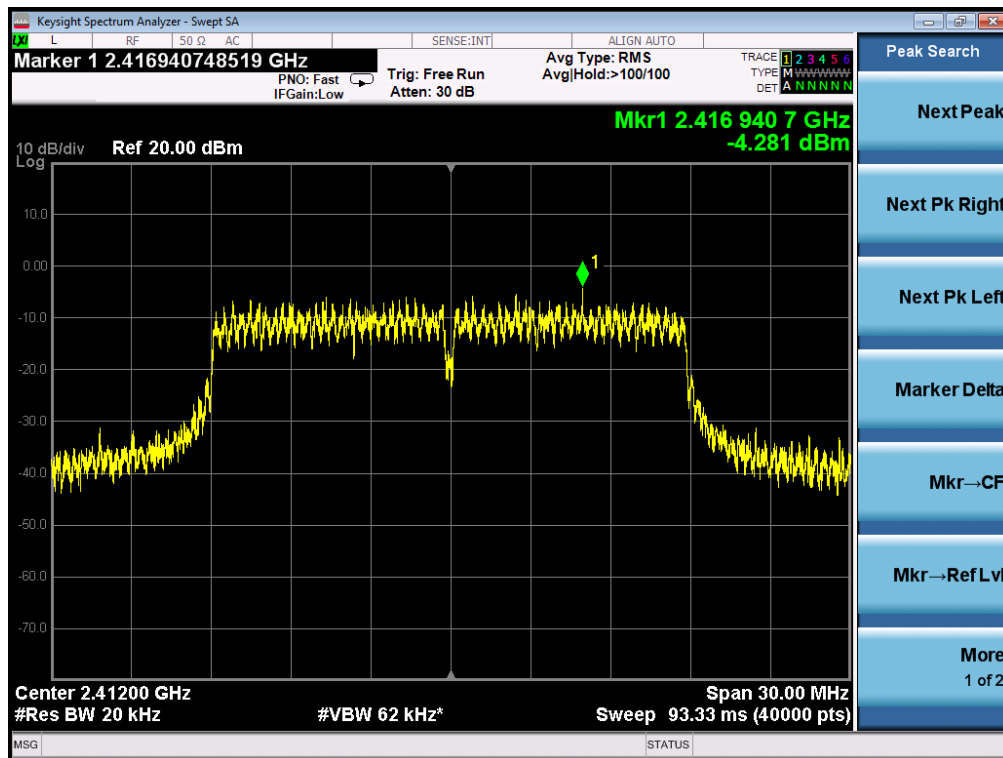
## TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL



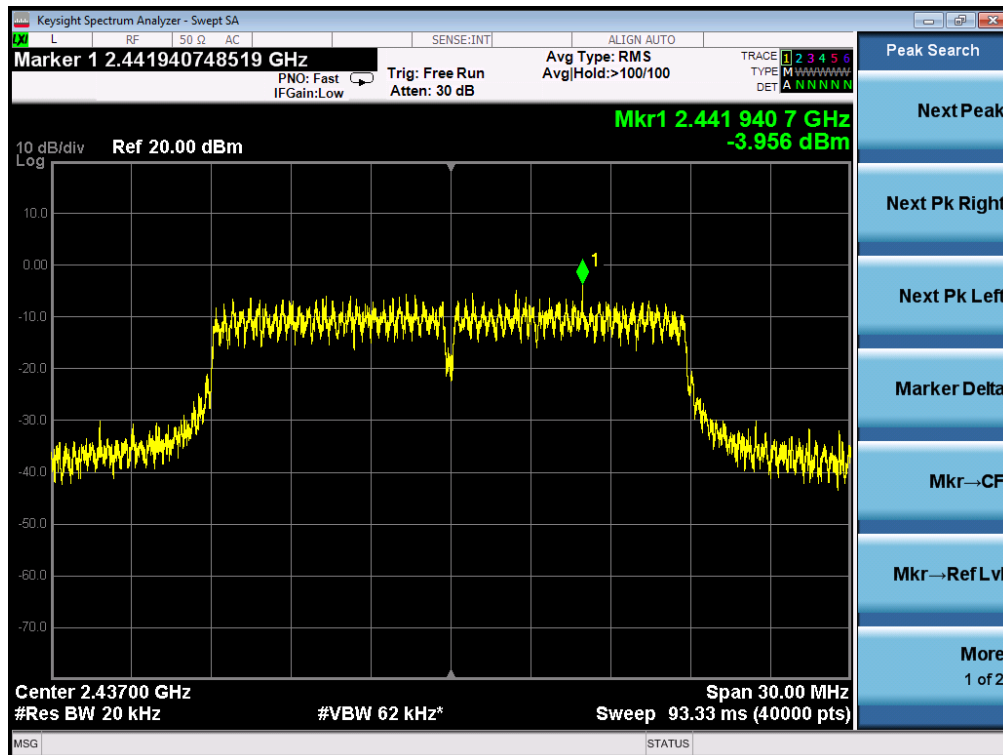


### 802.11n 20 TEST RESULT

#### TEST PLOT OF SPECTRAL DENSITY FOR LOW CHANNEL

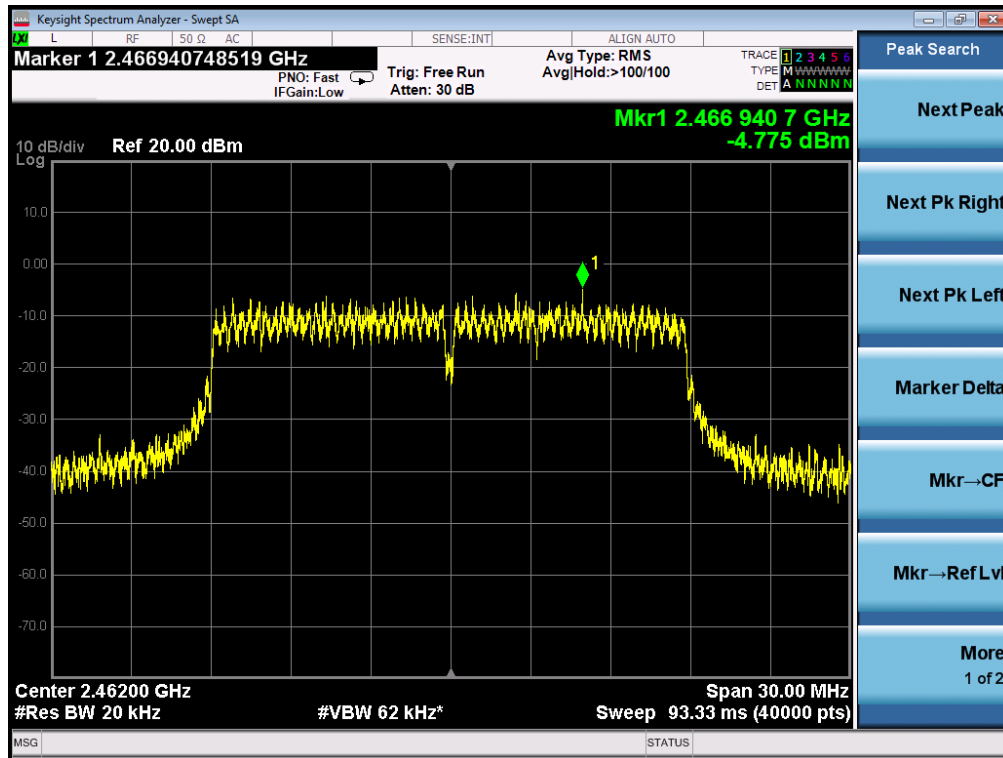


#### TEST PLOT OF SPECTRAL DENSITY FOR MIDDLE CHANNEL





## TEST PLOT OF SPECTRAL DENSITY FOR HIGH CHANNEL





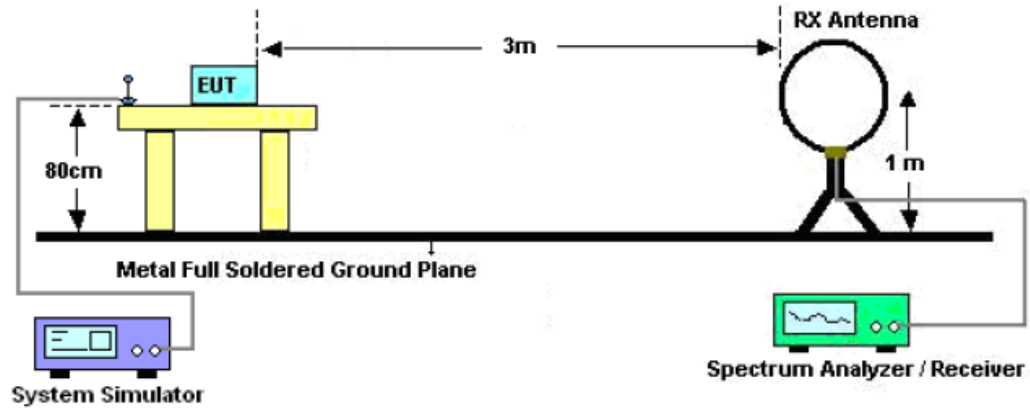
## 7. RADIATED EMISSION

### 7.1. MEASUREMENT PROCEDURE

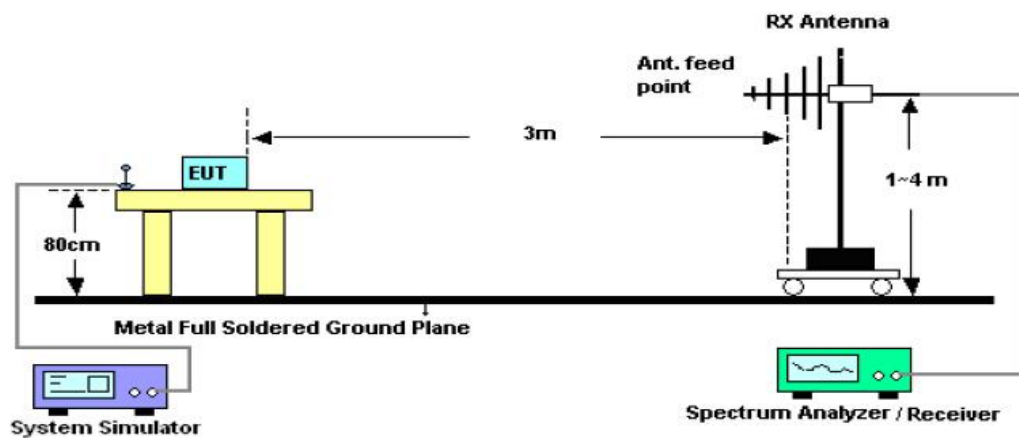
1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

## 7.2. TEST SETUP

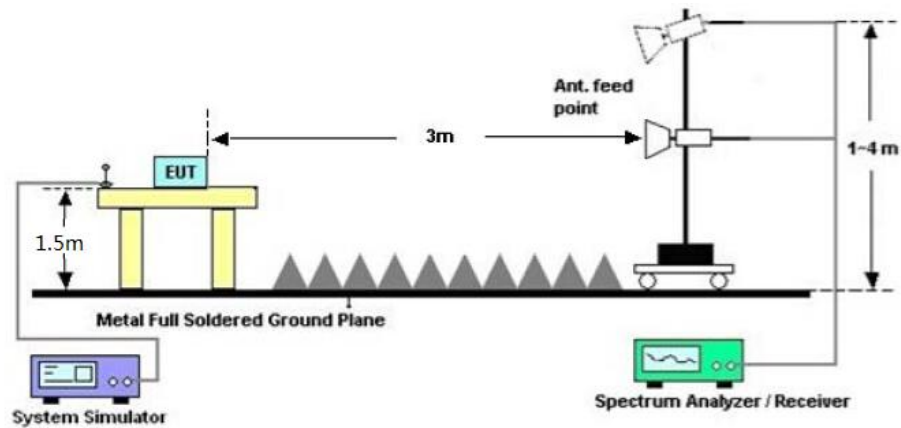
### Radiated Emission Test-Setup Frequency Below 30MHz



### RADIATED EMISSION TEST SETUP 30MHz-1000MHz



### RADIATED EMISSION TEST SETUP ABOVE 1000MHz





### 7.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

| Frequencies<br>(MHz) | Field Strength<br>(micorvolts/meter) | Measurement Distance<br>(meters) |
|----------------------|--------------------------------------|----------------------------------|
| 0.009~0.490          | 2400/F(KHz)                          | 300                              |
| 0.490~1.705          | 24000/F(KHz)                         | 30                               |
| 1.705~30.0           | 30                                   | 30                               |
| 30~88                | 100                                  | 3                                |
| 88~216               | 150                                  | 3                                |
| 216~960              | 200                                  | 3                                |
| Above 960            | 500                                  | 3                                |

Note: All modes were tested For restricted band radiated emission,  
the test records reported below are the worst result compared to other modes.

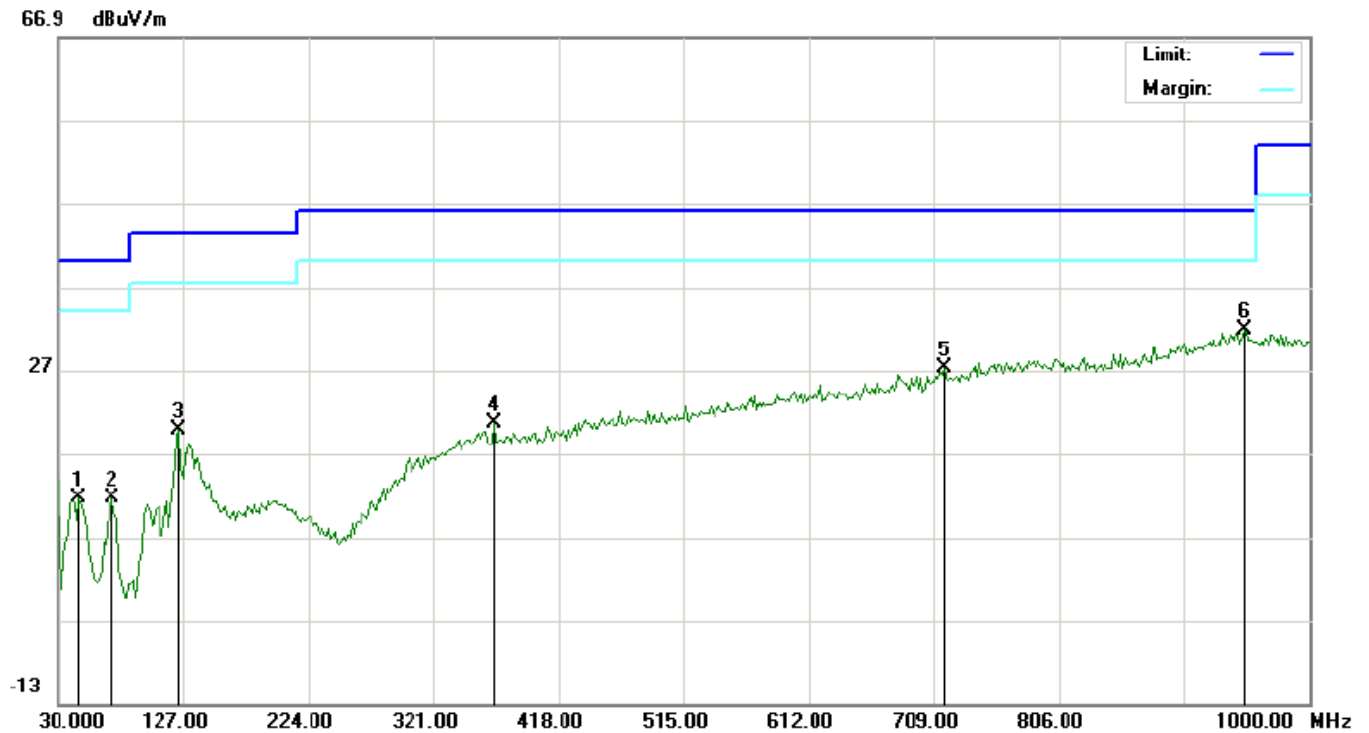
### 7.4. TEST RESULT

#### RADIATED EMISSION BELOW 30MHZ

No emission found between lowest internal used/generated frequencies to 30MHz.

**RADIATED EMISSION BELOW 1GHZ**

|                    |                                     |                          |                |
|--------------------|-------------------------------------|--------------------------|----------------|
| <b>EUT</b>         | WiFi motion sensor                  | <b>Model Name</b>        | NAS-PD01W0     |
| <b>Temperature</b> | 25°C                                | <b>Relative Humidity</b> | 55.4%          |
| <b>Pressure</b>    | 960hPa                              | <b>Test Voltage</b>      | Normal Voltage |
| <b>Test Mode</b>   | 802.11b with data rate 1<br>2412MHZ | <b>Antenna</b>           | Horizontal     |

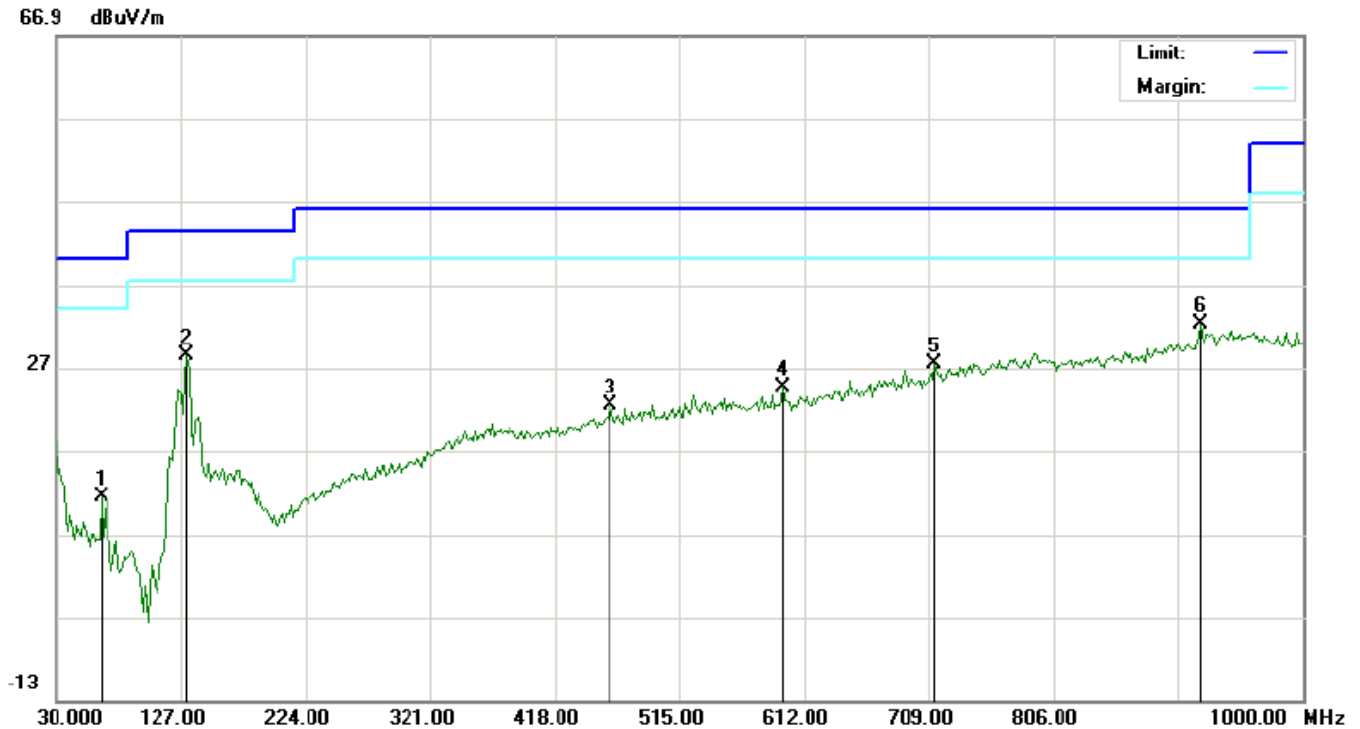


| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 46.1666  | 0.05    | 11.49  | 11.54       | 40.00  | -28.46 | peak     |                |              |         |
| 2   |    | 72.0332  | 3.34    | 8.28   | 11.62       | 40.00  | -28.38 | peak     |                |              |         |
| 3   |    | 123.7667 | 12.17   | 7.62   | 19.79       | 43.50  | -23.71 | peak     |                |              |         |
| 4   |    | 367.8833 | 1.71    | 18.86  | 20.57       | 46.00  | -25.43 | peak     |                |              |         |
| 5   |    | 717.0833 | 1.47    | 25.70  | 27.17       | 46.00  | -18.83 | peak     |                |              |         |
| 6   | *  | 949.8832 | 1.71    | 30.00  | 31.71       | 46.00  | -14.29 | peak     |                |              |         |

**RESULT: PASS**



|             |                                     |                   |                |
|-------------|-------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                  | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                              | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with date rate 1<br>2412MHZ | Antenna           | Vertical       |



| No. | Mk | Freq.    | Reading | Factor | Measurement | Limit  | Over   | Detector | Antenna Height | Table Degree | Comment |
|-----|----|----------|---------|--------|-------------|--------|--------|----------|----------------|--------------|---------|
|     |    | MHz      | dBuV    | dB/m   | dBuV/m      | dBuV/m | dB     |          | cm             | degree       |         |
| 1   |    | 65.5666  | 5.33    | 5.98   | 11.31       | 40.00  | -28.69 | peak     |                |              |         |
| 2   |    | 131.8499 | 16.62   | 11.80  | 28.42       | 43.50  | -15.08 | peak     |                |              |         |
| 3   |    | 461.6499 | 1.60    | 20.72  | 22.32       | 46.00  | -23.68 | peak     |                |              |         |
| 4   |    | 595.8333 | 1.99    | 22.71  | 24.70       | 46.00  | -21.30 | peak     |                |              |         |
| 5   |    | 713.8500 | 1.74    | 25.59  | 27.33       | 46.00  | -18.67 | peak     |                |              |         |
| 6   | *  | 920.7833 | 2.96    | 29.19  | 32.15       | 46.00  | -13.85 | peak     |                |              |         |

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The “Factor” value can be calculated automatically by software of measurement system.

3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

**RADIATED EMISSION ABOVE 1GHZ**

|                    |                                     |                          |                |
|--------------------|-------------------------------------|--------------------------|----------------|
| <b>EUT</b>         | WiFi motion sensor                  | <b>Model Name</b>        | NAS-PD01W0     |
| <b>Temperature</b> | 25°C                                | <b>Relative Humidity</b> | 55.4%          |
| <b>Pressure</b>    | 960hPa                              | <b>Test Voltage</b>      | Normal Voltage |
| <b>Test Mode</b>   | 802.11b with data rate 1<br>2412MHZ | <b>Antenna</b>           | Horizontal     |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4824.047           | 45.03                   | 3.72           | 48.75                      | 74                 | -25.25         | peak       |
| 4824.111           | 41.29                   | 3.72           | 45.01                      | 54                 | -8.99          | AVG        |
| 7236.101           | 42.58                   | 8.15           | 50.73                      | 74                 | -23.27         | peak       |
| 7236.032           | 40.61                   | 8.15           | 48.76                      | 54                 | -5.24          | AVG        |
|                    |                         |                |                            |                    |                |            |
|                    |                         |                |                            |                    |                |            |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

|                    |                                     |                          |                |
|--------------------|-------------------------------------|--------------------------|----------------|
| <b>EUT</b>         | WiFi motion sensor                  | <b>Model Name</b>        | NAS-PD01W0     |
| <b>Temperature</b> | 25°C                                | <b>Relative Humidity</b> | 55.4%          |
| <b>Pressure</b>    | 960hPa                              | <b>Test Voltage</b>      | Normal Voltage |
| <b>Test Mode</b>   | 802.11b with data rate 1<br>2412MHZ | <b>Antenna</b>           | Vertical       |

| Frequency<br>(MHz) | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Value Type |
|--------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4824.029           | 44.95                   | 3.72           | 48.67                      | 74                 | -25.33         | peak       |
| 4824.072           | 41.22                   | 3.72           | 44.94                      | 54                 | -9.06          | AVG        |
| 7236.022           | 43.81                   | 8.15           | 51.96                      | 74                 | -22.04         | peak       |
| 7236.057           | 35.83                   | 8.15           | 43.98                      | 54                 | -10.02         | AVG        |
|                    |                         |                |                            |                    |                |            |
|                    |                         |                |                            |                    |                |            |

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

|             |                                     |                   |                |
|-------------|-------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                  | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                              | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with date rate 1<br>2437MHZ | Antenna           | Horizontal     |

| Frequency                                             | Meter Reading | Factor | Emission Level | Limits   | Margin | Value Type |
|-------------------------------------------------------|---------------|--------|----------------|----------|--------|------------|
| (MHz)                                                 | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |            |
| 4874.119                                              | 45.94         | 3.75   | 49.69          | 74       | -24.31 | peak       |
| 4874.037                                              | 42.56         | 3.75   | 46.31          | 54       | -7.69  | AVG        |
| 7311.026                                              | 44.06         | 8.16   | 52.22          | 74       | -21.78 | peak       |
| 7311.078                                              | 40.57         | 8.16   | 48.73          | 54       | -5.27  | AVG        |
|                                                       |               |        |                |          |        |            |
|                                                       |               |        |                |          |        |            |
| Remark:                                               |               |        |                |          |        |            |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |            |

|             |                                     |                   |                |
|-------------|-------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                  | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                              | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with date rate 1<br>2437MHZ | Antenna           | Vertical       |

| Frequency                                             | Meter Reading | Factor | Emission Level | Limits   | Margin | Value Type |
|-------------------------------------------------------|---------------|--------|----------------|----------|--------|------------|
| (MHz)                                                 | (dBμV)        | (dB)   | (dBμV/m)       | (dBμV/m) | (dB)   |            |
| 4874.071                                              | 44.87         | 3.75   | 48.62          | 74       | -25.38 | peak       |
| 4874.088                                              | 42.51         | 3.75   | 46.26          | 54       | -7.74  | AVG        |
| 7311.037                                              | 43.29         | 8.16   | 51.45          | 74       | -22.55 | peak       |
| 7311.038                                              | 40.59         | 8.16   | 48.75          | 54       | -5.25  | AVG        |
|                                                       |               |        |                |          |        |            |
|                                                       |               |        |                |          |        |            |
| Remark:                                               |               |        |                |          |        |            |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |            |



|                    |                                     |                          |                |
|--------------------|-------------------------------------|--------------------------|----------------|
| <b>EUT</b>         | WiFi motion sensor                  | <b>Model Name</b>        | NAS-PD01W0     |
| <b>Temperature</b> | 25°C                                | <b>Relative Humidity</b> | 55.4%          |
| <b>Pressure</b>    | 960hPa                              | <b>Test Voltage</b>      | Normal Voltage |
| <b>Test Mode</b>   | 802.11b with data rate 1<br>2462MHZ | <b>Antenna</b>           | Horizontal     |

| Frequency<br>(MHz)                                    | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Value Type |
|-------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4924.045                                              | 46.32                   | 3.81           | 50.13                      | 74                 | -23.87         | peak       |
| 4924.061                                              | 41.57                   | 3.81           | 45.38                      | 54                 | -8.62          | AVG        |
| 7386.102                                              | 44.13                   | 8.19           | 52.32                      | 74                 | -21.68         | peak       |
| 7386.107                                              | 40.61                   | 8.19           | 48.8                       | 54                 | -5.2           | AVG        |
|                                                       |                         |                |                            |                    |                |            |
|                                                       |                         |                |                            |                    |                |            |
| Remark:                                               |                         |                |                            |                    |                |            |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |            |

|                    |                                     |                          |                |
|--------------------|-------------------------------------|--------------------------|----------------|
| <b>EUT</b>         | WiFi motion sensor                  | <b>Model Name</b>        | NAS-PD01W0     |
| <b>Temperature</b> | 25°C                                | <b>Relative Humidity</b> | 55.4%          |
| <b>Pressure</b>    | 960hPa                              | <b>Test Voltage</b>      | Normal Voltage |
| <b>Test Mode</b>   | 802.11b with data rate 1<br>2462MHZ | <b>Antenna</b>           | Vertical       |

| Frequency<br>(MHz)                                    | Meter Reading<br>(dBμV) | Factor<br>(dB) | Emission Level<br>(dBμV/m) | Limits<br>(dBμV/m) | Margin<br>(dB) | Value Type |
|-------------------------------------------------------|-------------------------|----------------|----------------------------|--------------------|----------------|------------|
| 4924.039                                              | 45.62                   | 3.81           | 49.43                      | 74                 | -24.57         | peak       |
| 4924.116                                              | 42.07                   | 3.81           | 45.88                      | 54                 | -8.12          | AVG        |
| 7386.058                                              | 43.91                   | 8.19           | 52.1                       | 74                 | -21.9          | peak       |
| 7386.036                                              | 40.28                   | 8.19           | 48.47                      | 54                 | -5.53          | AVG        |
|                                                       |                         |                |                            |                    |                |            |
|                                                       |                         |                |                            |                    |                |            |
| Remark:                                               |                         |                |                            |                    |                |            |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |                         |                |                            |                    |                |            |

**RESULT: PASS****Note:**

Other emissions from 1G to 25 GHz are considered as ambient noise. No recording in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.



## **8. BAND EDGE EMISSION**

### **8.1. MEASUREMENT PROCEDURE**

Radiated restricted band edge measurements

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting

### **8.2. TEST SET-UP**

same as 7.2

#### **Note:**

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB( $\mu$ V) to represent the Amplitude. Use the F dB( $\mu$ V/m) to represent the Field Strength. So A=F.

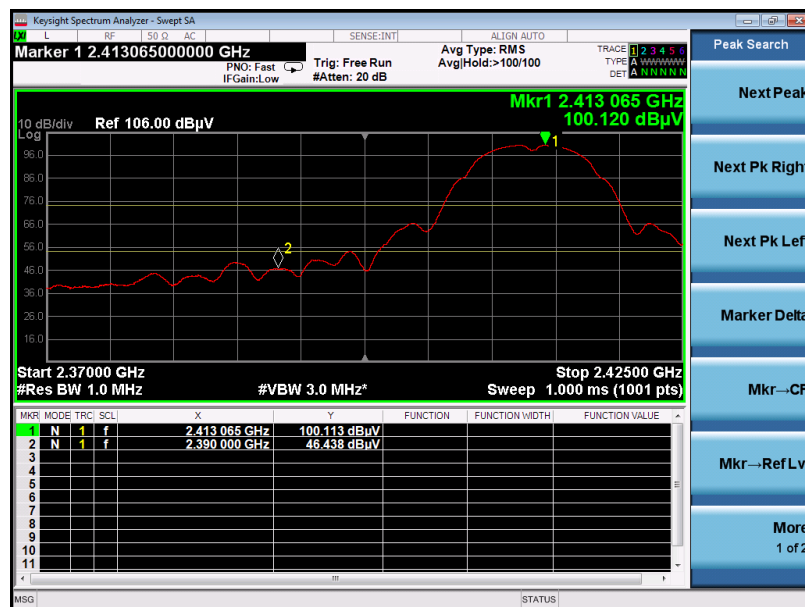
### 8.3. TEST RESULT

|             |                                     |                   |                |
|-------------|-------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                  | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                              | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with data rate 1<br>2412MHZ | Antenna           | Horizontal     |

PK



AV



**RESULT: PASS**

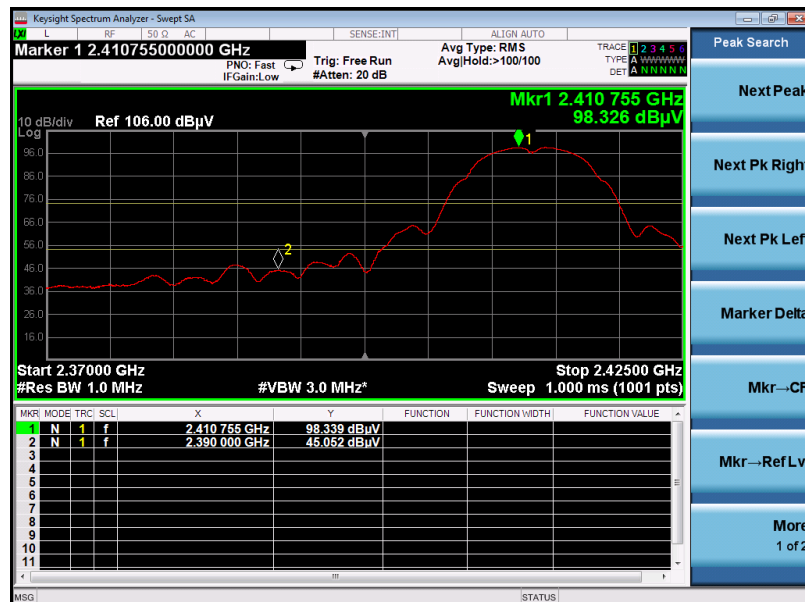


|             |                                     |                   |                |
|-------------|-------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                  | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                              | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with data rate 1<br>2412MHZ | Antenna           | Vertical       |

PK



AV

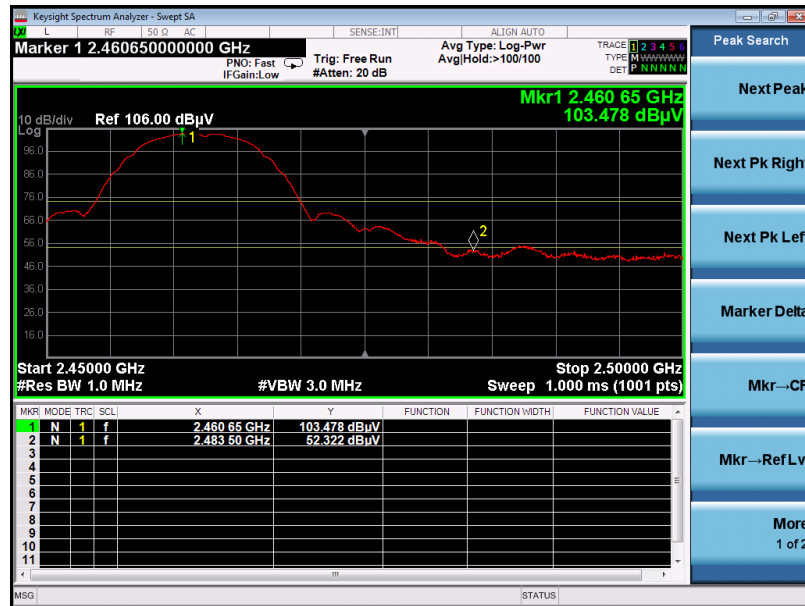


RESULT: PASS



|             |                                     |                   |                |
|-------------|-------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                  | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                              | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with data rate 1<br>2462MHZ | Antenna           | Horizontal     |

PK



AV



RESULT: PASS



|             |                                     |                   |                |
|-------------|-------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                  | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                              | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with data rate 1<br>2462MHZ | Antenna           | Vertical       |

PK



AV

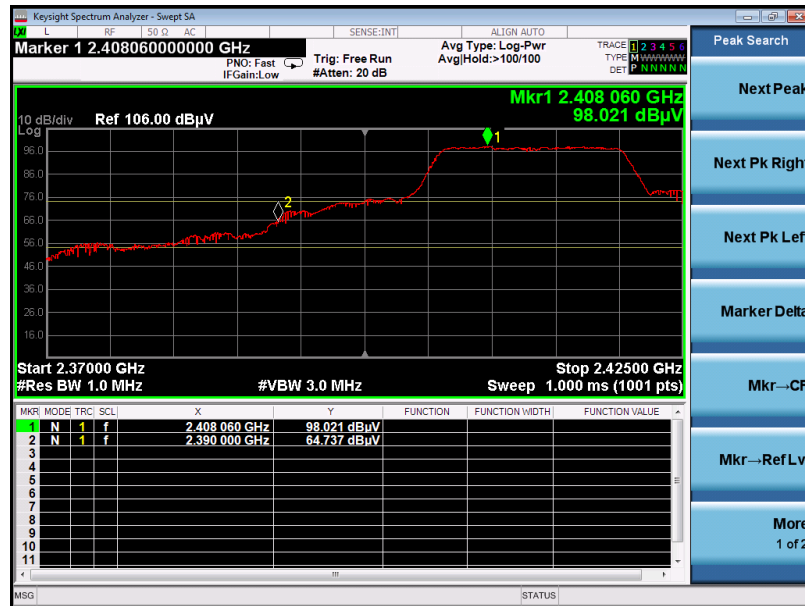


RESULT: PASS



|             |                                     |                   |                |
|-------------|-------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                  | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                              | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11g with data rate 6<br>2412MHZ | Antenna           | Horizontal     |

PK



AV

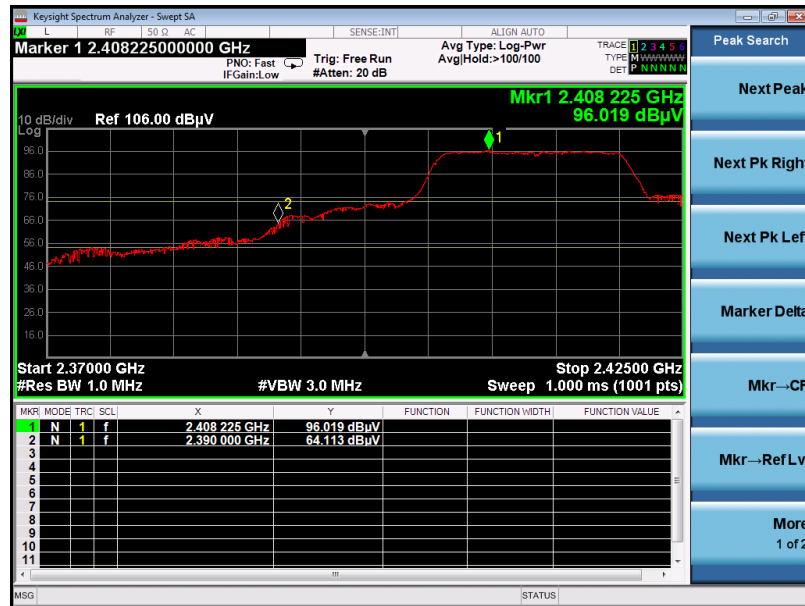


RESULT: PASS



|             |                                     |                   |                |
|-------------|-------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                  | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                              | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11g with data rate 6<br>2412MHZ | Antenna           | Vertical       |

PK



AV



RESULT: PASS



|             |                                     |                   |                |
|-------------|-------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                  | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                              | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11g with data rate 6<br>2462MHZ | Antenna           | Horizontal     |

PK



AV



RESULT: PASS



|             |                                     |                   |                |
|-------------|-------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                  | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                              | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11g with data rate 6<br>2462MHZ | Antenna           | Vertical       |

PK



AV

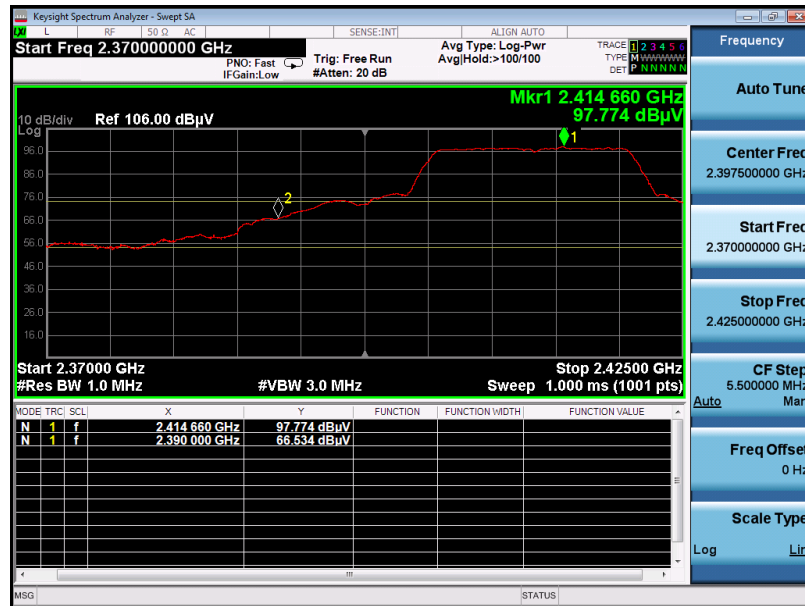


RESULT: PASS



|             |                                          |                   |                |
|-------------|------------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                       | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                     | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                                   | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11n 20 with data rate 6.5<br>2412MHZ | Antenna           | Horizontal     |

PK



AV

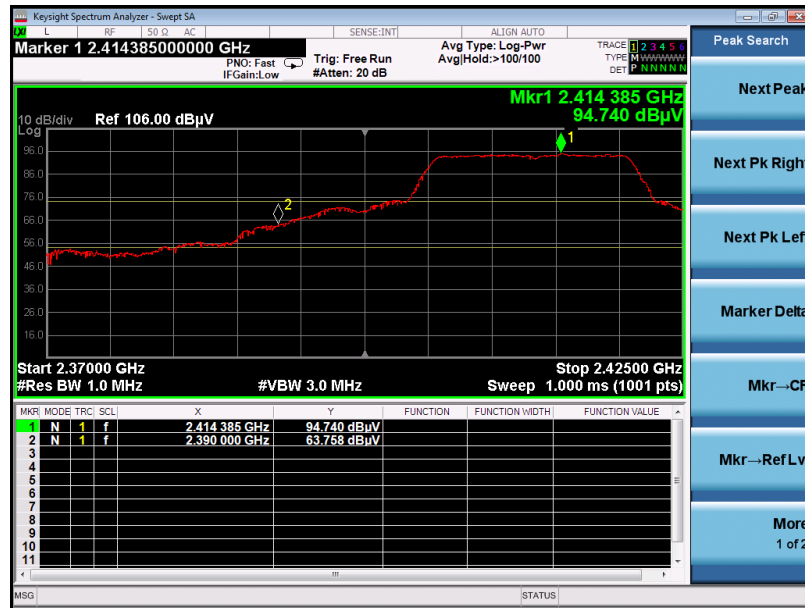


RESULT: PASS



|             |                                          |                   |                |
|-------------|------------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                       | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                     | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                                   | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11n 20 with data rate 6.5<br>2412MHZ | Antenna           | Vertical       |

PK



AV

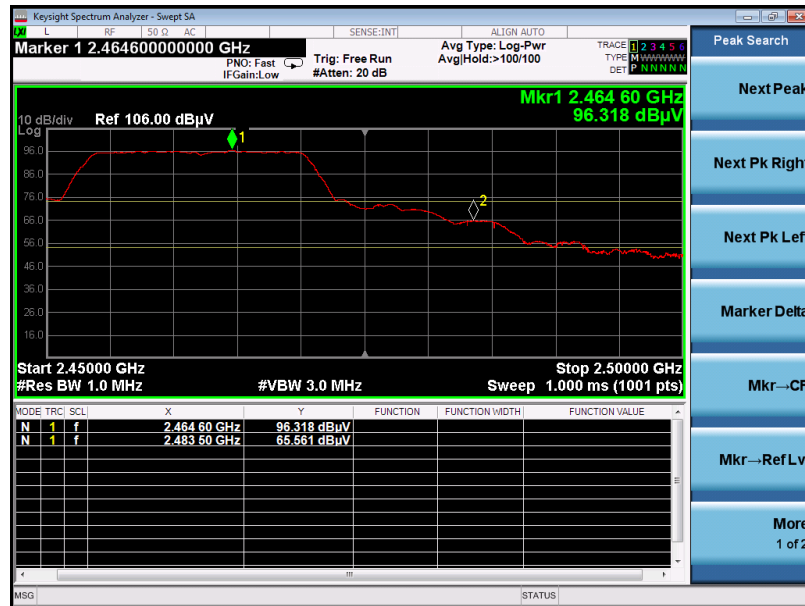


RESULT: PASS



|             |                                          |                   |                |
|-------------|------------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                       | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                     | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                                   | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11n 20 with data rate 6.5<br>2462MHZ | Antenna           | Horizontal     |

PK



AV



RESULT: PASS



|             |                                          |                   |                |
|-------------|------------------------------------------|-------------------|----------------|
| EUT         | WiFi motion sensor                       | Model Name        | NAS-PD01W0     |
| Temperature | 25°C                                     | Relative Humidity | 55.4%          |
| Pressure    | 960hPa                                   | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11n 20 with data rate 6.5<br>2462MHZ | Antenna           | Vertical       |

PK



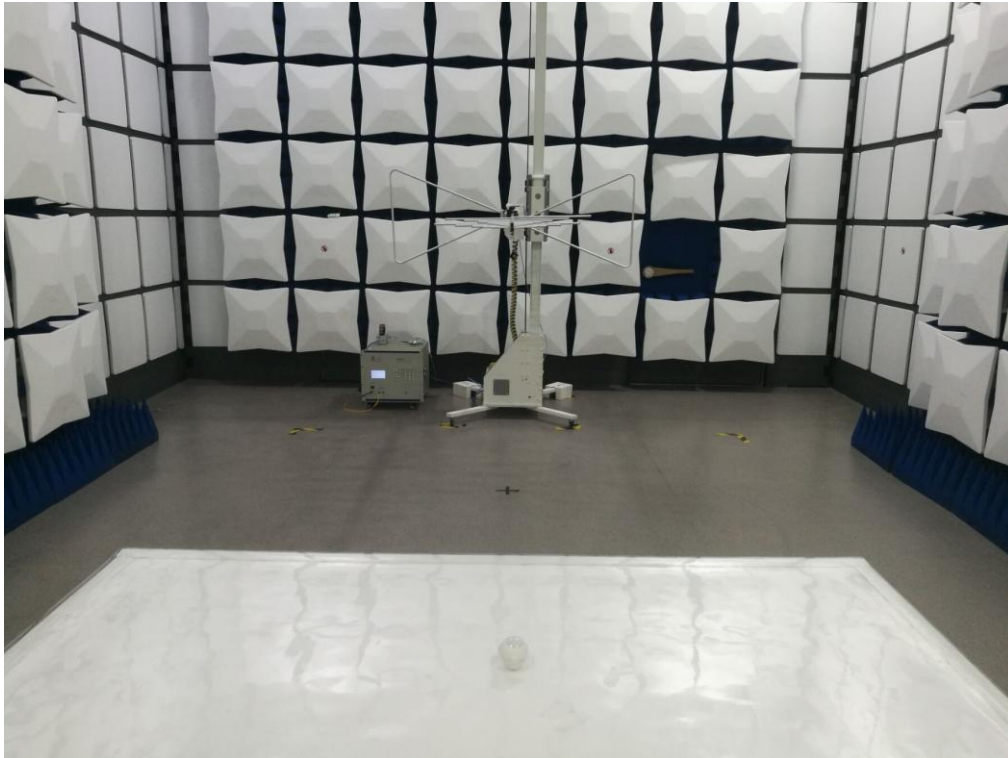
AV



RESULT: PASS



**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**  
**FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ**



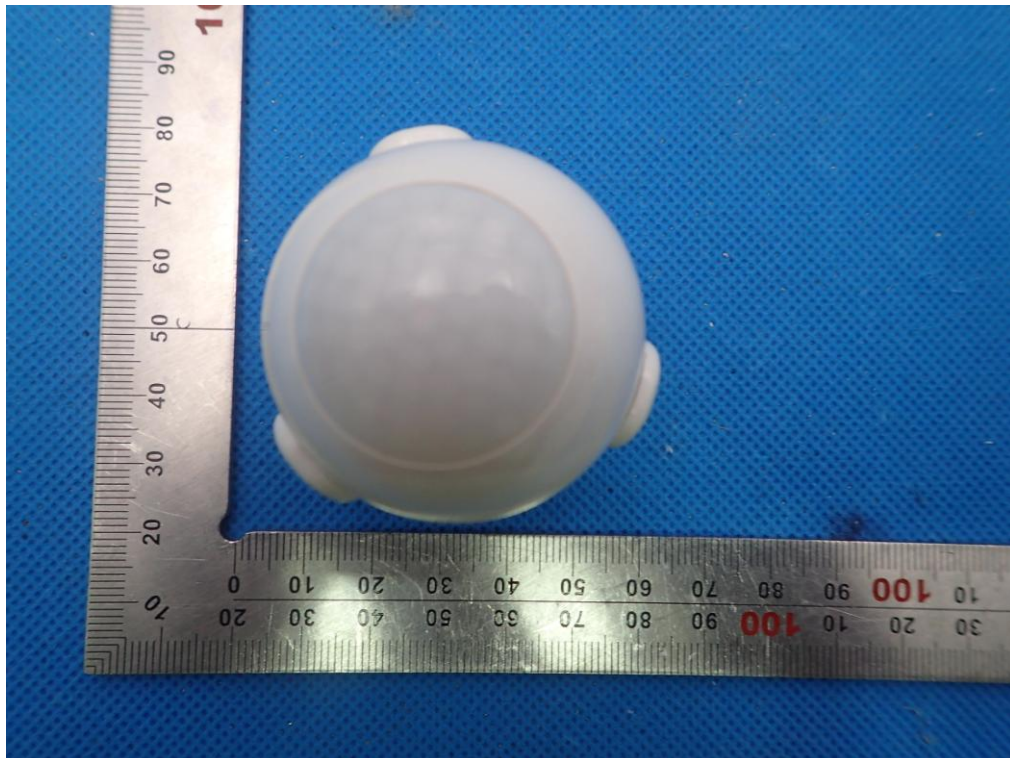
**FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ**



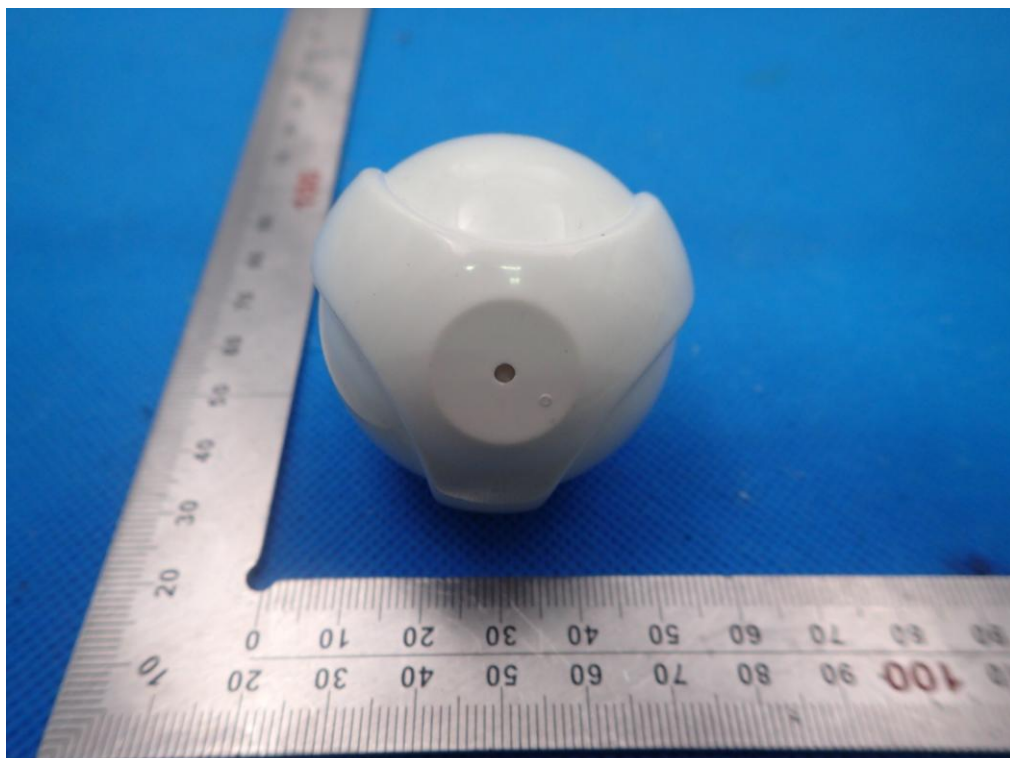


## APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT

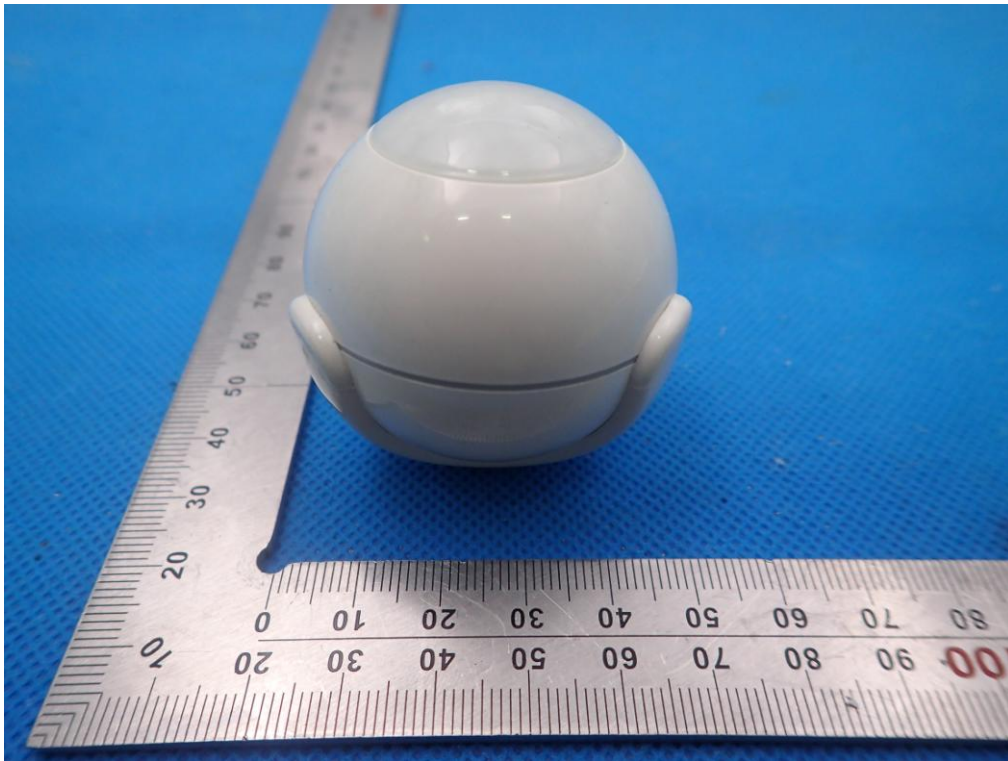


BOTTOM VIEW OF EUT

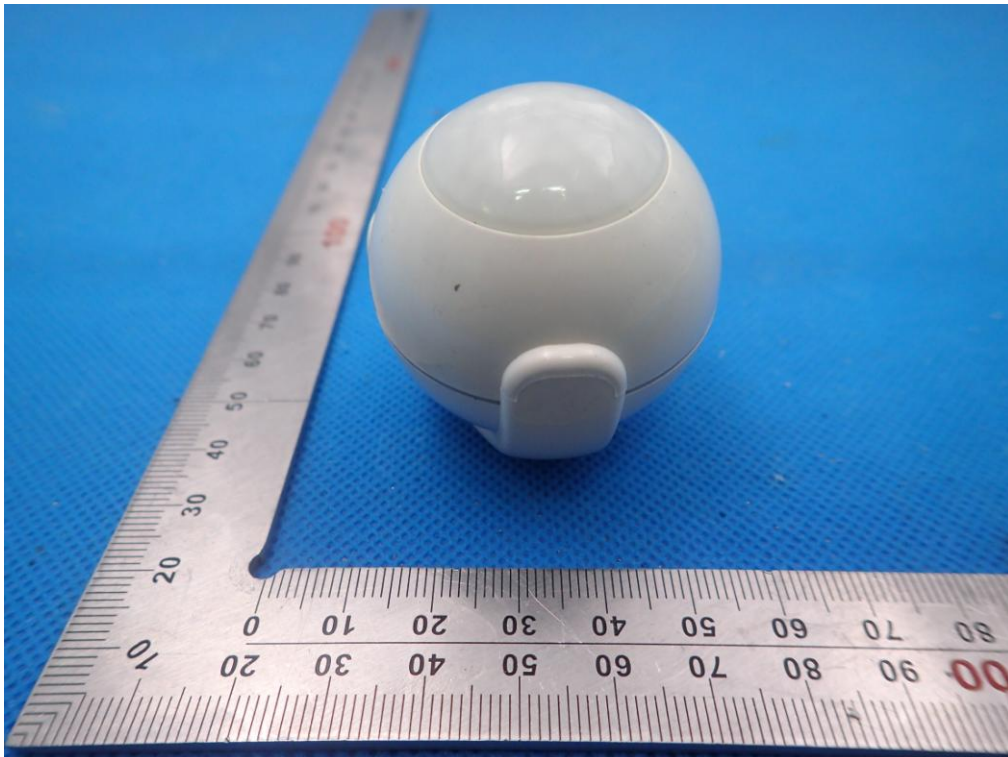




FRONT VIEW OF EUT

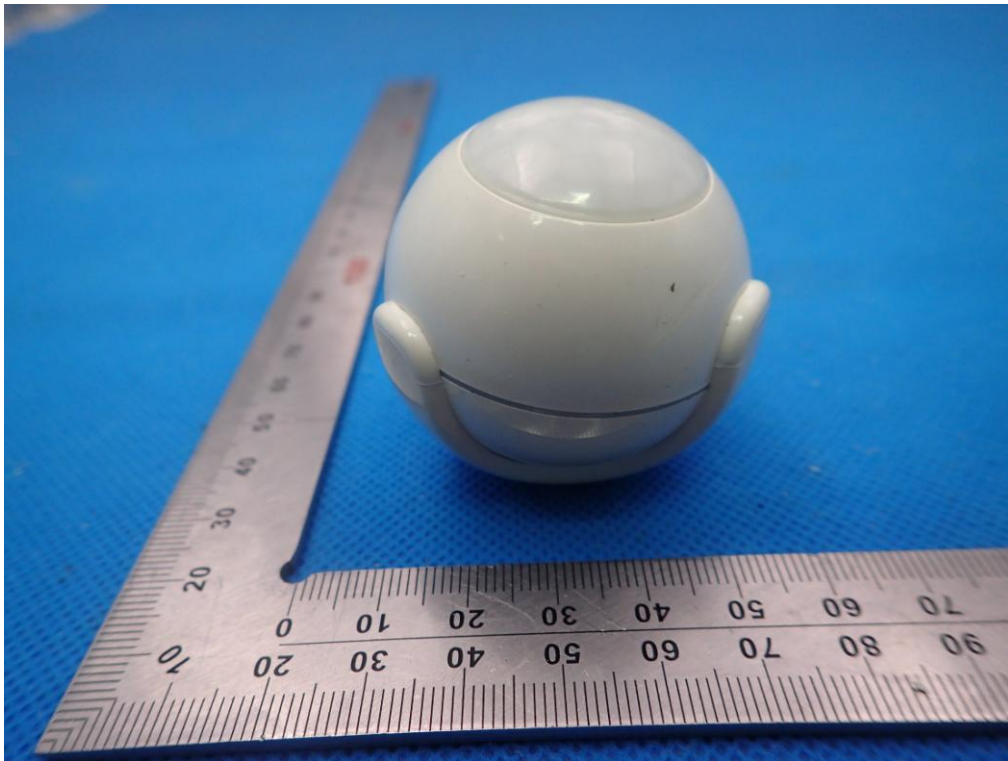


BACK VIEW OF EUT

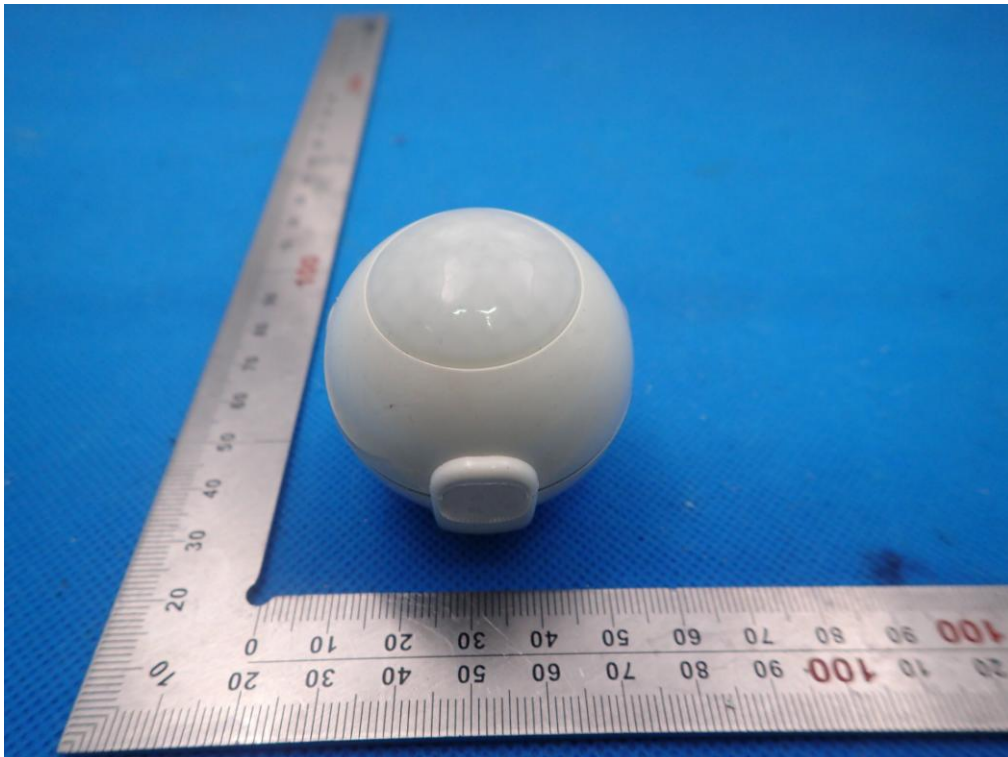




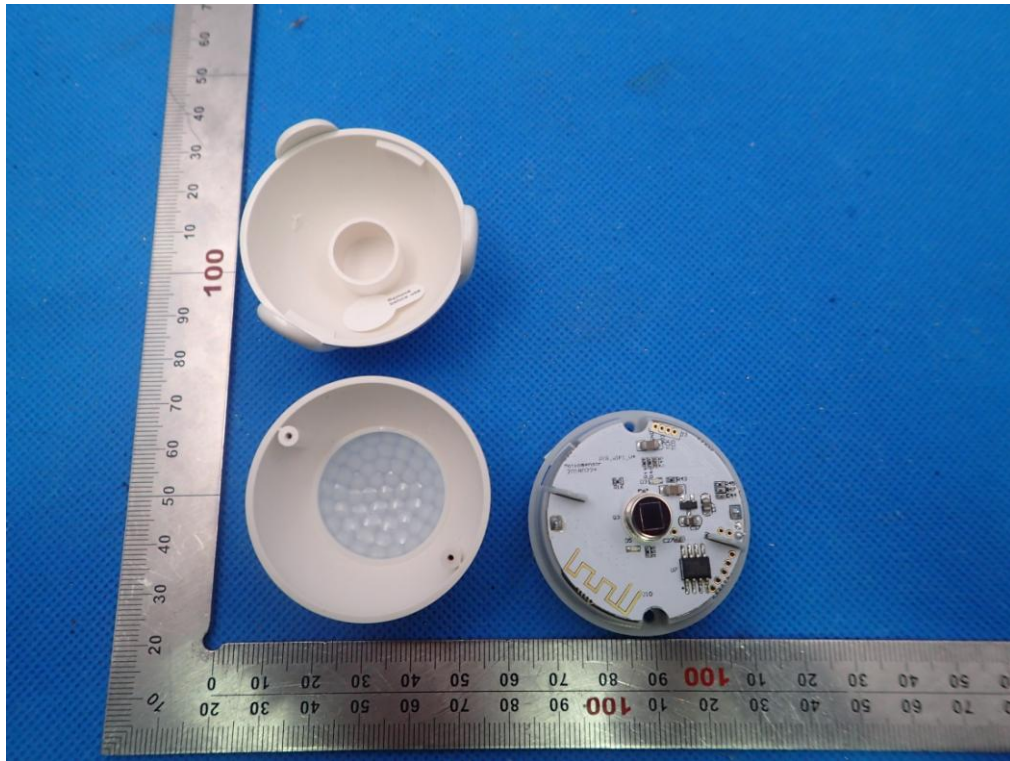
LEFT VIEW OF EUT



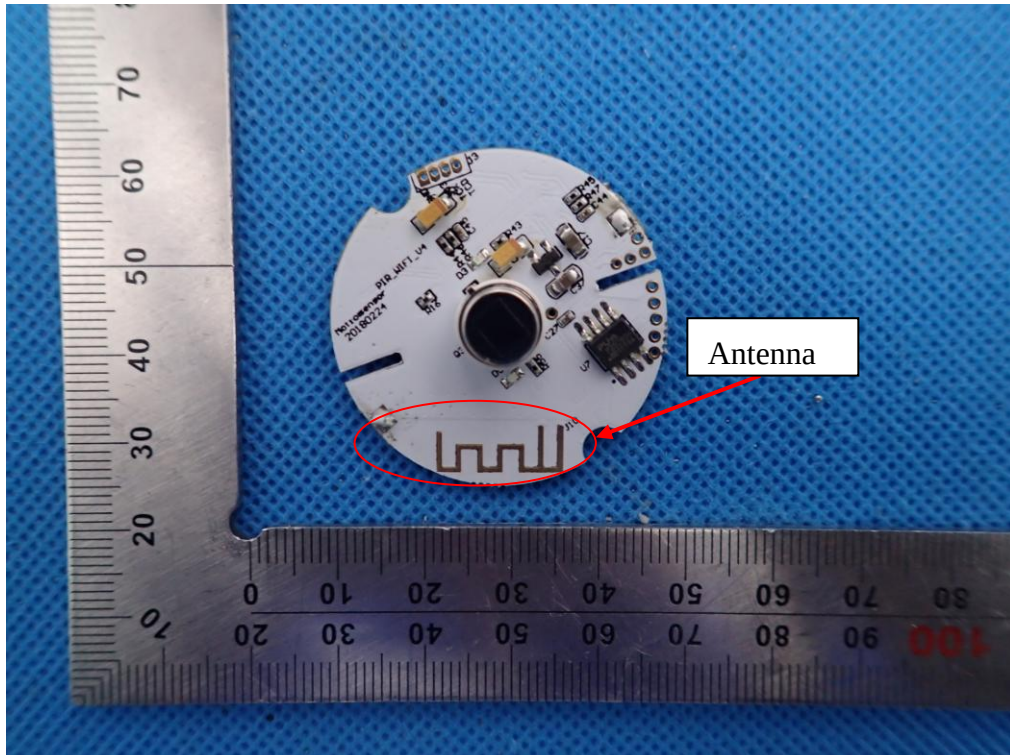
RIGHT VIEW OF EUT



OPEN VIEW OF EUT 1

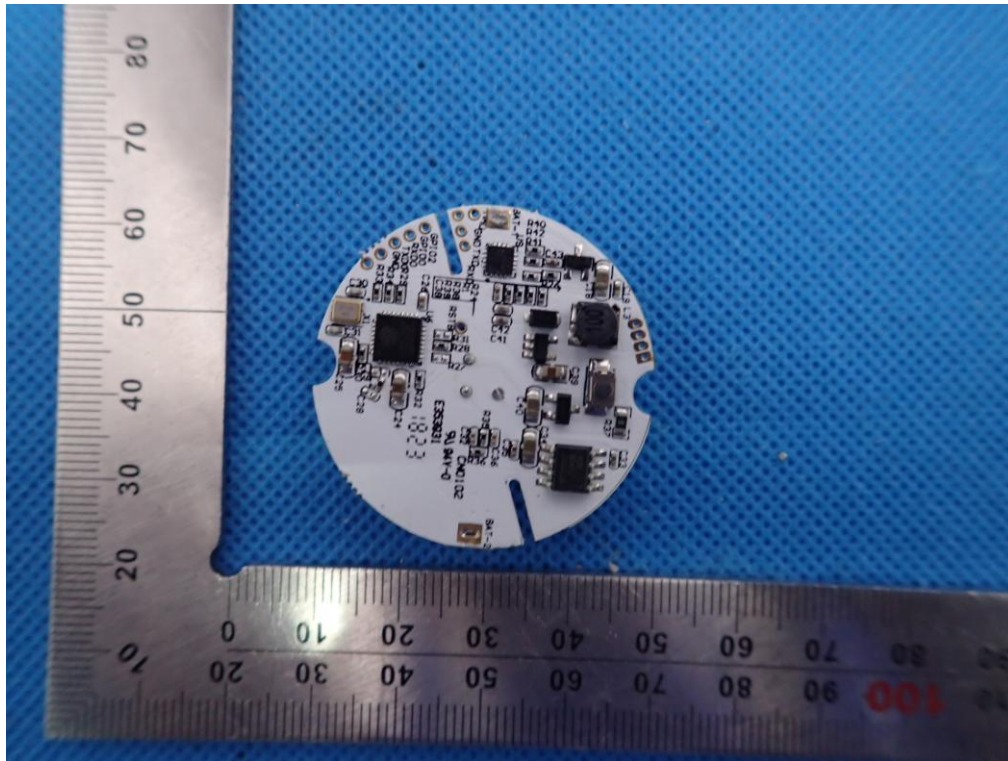


INTERNAL VIEW OF EUT-1





INTERNAL VIEW OF EUT-2



-----END OF REPORT-----