# TEST REPORT

**Reference No.** : WTS16S0550177-2E V1

FCC ID ...... : 2AG78A2

Applicant.....: Golden Unions Limited

Address.....: UNIT 1010, MIRAMAR TOWER, 132 NATHAN ROAD,

TSIMSHATSUI, KL, Hong Kong

Manufacturer ...... : The same as above

Address..... : The same as above

Product Name...... 3G Smart Phone

Model No. ..... A2,P9,Onetouch,Fashion,Active,Pro lite

Brand.....: Skycell

**Standards**.....: FCC CFR47 Part 15.247:2015

Date of Receipt sample .... : May 11, 2016

**Date of Test** ...... : May 12, 2016 –May 30, 2016

Date of Issue..... : Jun. 22, 2016

Test Result.....: Pass

#### Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

#### Prepared By:

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# 2 Test Summary

| Test Items   | Test Requirement | Result   |
|--|------------------|----------|
|  | 15.247(d)        |          |
| Radiated Spurious Emissions                                    | 15.205(a)        | PASS     |
|  | 15.209(a)        |          |
| Conducted Spurious Emissions                                   | 15.247(d)        | PASS     |
| Conducted Emissions  | 15.207(a)        | PASS     |
| 6dB Bandwidth  | 15.247(a)(2)     | PASS     |
| Maximum Peak Output Power                                      | 15.247(b)(3),(4) | PASS     |
| Power Spectral Density   | 15.247(e)        | PASS     |
| Band Edge  | 15.247(d)        | PASS     |
| Antenna Requirement  | 15.203           | Complies |
| Maximum Permissible Exposure (Exposure of Humans to RF Fields) | 1.1307(b)(1)     | PASS     |

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|------------------------|----|
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# 4 Report Revision History

| Report No.       | Report Version | Description | Issue Date    |
|------------------|----------------|-------------|---------------|
| WTS16S0550177-2E | NONE           | Original    | Jun. 06, 2016 |
| WTS16S0550177-2E | V1             | Version 1   | Jun. 22, 2016 |

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### 5 General Information

### 5.1 General Description of E.U.T.

Product Name :3G Smart Phone

Model No. : A2, P9, Onetouch, Fashion, Active, Pro lite

Model Description : Only the Model name is different.

GSM Band(s) : GSM 850/900/1800/1900MHz

GPRS Class : 12

WCDMA Band(s) : FDD Band II/V

Wi-Fi Specification : 2.4G: 802.11b/g/n HT20/n HT40

Bluetooth Version : Bluetooth v4.0 with BLE

GPS : Support

NFC : N/A

Hardware Version : V1.1

Software Version : V06-V1.0-SHX-S20-FWVGA-EMMC-B2B5-SKYCELL-EN-V01

Storage Location : Internal Storage

### 5.2 Details of E.U.T.

Operation Frequency : GSM/GPRS 850: 824~849MHz

PCS/GPRS1900: 1850~1910MHz WCDMA Band II: 1850~1910MHz WCDMA Band V: 824~849MHz

WiFi:

802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz Bluetooth: 2402~2480MHz

Max. RF output power : GSM 850: 32.73dBm

PCS1900:29.65dBm

WCDMA Band II: 22.70dBm WCDMA Band V: 22.71dBm

WiFi(2.4G): 9.62dBm Bluetooth: 4.50dBm

Type of Modulation : GSM,GPRS: GMSK

WCDMA: BPSK WiFi: CCK, OFDM

Bluetooth: GFSK, Pi/4 DQPSK,8DPSK

Antenna installation : GSM/WCDMA/LTE: internal permanent antenna

WiFi/Bluetooth: internal permanent antenna

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Antenna Gain GSM 850: 0.8dBi

GPRS 850: 0.8dBi PCS1900: 0.9dBi GPRS 1900: 0.9dBi WCDMA Band II: 0.9dBi WCDMA Band V: 0.8dBi WiFi(2.4G): 1.0dBi

Bluetooth: 1.0dBi

Technical Data : DC 3.8V, 1650mAh by battery

DC 5V, 1A, charging from adapter

(Adapter Input: 100-240V~50/60Hz, 0.15A)

Adapter : Manufacturer: DONGTAISHENG Technology Co., LTD

Model No.: TN-050100U2

## 5.3 Channel List

### WIFI

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| No.     | (MHz)     | No.     | (MHz)     | No.     | (MHz)     | No.     | (MHz)     |
| 1       | 2412      | 2       | 2417      | 3       | 2422      | 4       | 2427      |
| 5       | 2432      | 6       | 2437      | 7       | 2442      | 8       | 2447      |
| 9       | 2452      | 10      | 2457      | 11      | 2462      | 12      | -         |

### BT BLE

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| No.     | (MHz)     | No.     | (MHz)     | No.     | (MHz)     | No.     | (MHz)     |
| 0       | 2402      | 1       | 2404      | 2       | 2406      | 3       | 2408      |
| 4       | 2410      | 5       | 2412      | 6       | 2414      | 7       | 2416      |
| 8       | 2418      | 9       | 2420      | 10      | 2422      | 11      | 2424      |
| 12      | 2426      | 13      | 2428      | 14      | 2430      | 15      | 2432      |
| 16      | 2434      | 17      | 2436      | 18      | 2438      | 19      | 2440      |
| 20      | 2442      | 21      | 2444      | 22      | 2446      | 23      | 2448      |
| 24      | 2450      | 25      | 2452      | 26      | 2454      | 27      | 2456      |
| 28      | 2458      | 29      | 2460      | 30      | 2462      | 31      | 2464      |
| 32      | 2466      | 33      | 2468      | 34      | 2470      | 35      | 2472      |
| 36      | 2474      | 37      | 2476      | 38      | 2478      | 39      | 2480      |

### 5.4 Test Mode

Table 1 Tests Carried Out Under FCC part 15.247

| Test Items                | Mode         | Data Rate | Channel | TX/RX |
|---------------------------|--------------|-----------|---------|-------|
| Maximum Peak Output Power | 802.11b      | 11 Mbps   | 1/6/11  | TX    |
|                           | 802.11g      | 54 Mbps   | 1/6/11  | TX    |
|                           | 802.11n HT20 | 108 Mbps  | 1/6/11  | TX    |
|                           | 802.11n HT40 | 150 Mbps  | 3/6/9   | TX    |

|                                | 802.11b      | 11 Mbps  | 1/6/11 | TX |
|--------------------------------|--------------|----------|--------|----|
| Down Chartral Daneity          | 802.11g      | 54 Mbps  | 1/6/11 | TX |
| Power Spectral Density         | 802.11n HT20 | 108 Mbps | 1/6/11 | TX |
|                                | 802.11n HT40 | 150 Mbps | 3/6/9  | TX |
|                                | 802.11b      | 11 Mbps  | 1/6/11 | TX |
| CdD Dondwidth                  | 802.11g      | 54 Mbps  | 1/6/11 | TX |
| 6dB Bandwidth                  | 802.11n HT20 | 108 Mbps | 1/6/11 | TX |
|                                | 802.11n HT40 | 150 Mbps | 3/6/9  | TX |
|                                | 802.11b      | 11 Mbps  | 1/6/11 | TX |
| Dand Edge                      | 802.11g      | 54 Mbps  | 1/6/11 | TX |
| Band Edge                      | 802.11n HT20 | 108 Mbps | 1/6/11 | TX |
|                                | 802.11n HT40 | 150 Mbps | 3/6/9  | TX |
|                                | 802.11b      | 11 Mbps  | 1/6/11 | TX |
| Transmitter Spurious Emissions | 802.11g      | 54 Mbps  | 1/6/11 | TX |
| Transmitter Spurious Emissions | 802.11n HT20 | 108 Mbps | 1/6/11 | TX |
|                                | 802.11n HT40 | 150 Mbps | 3/6/9  | TX |

Table 2 Tests Carried Out Under FCC part 15.247

| Test Items                     | Mode   | Data Rate | Channel | TX/RX |
|--------------------------------|--------|-----------|---------|-------|
| Maximum Peak Output Power      | BT BLE | 1 Mbps    | 0/19/39 | TX    |
| Power Spectral Density         | BT BLE | 1 Mbps    | 0/19/39 | TX    |
| 6dB Bandwidth                  | BT BLE | 1 Mbps    | 0/19/39 | TX    |
| Band Edge                      | BT BLE | 1 Mbps    | 0/19/39 | TX    |
| Transmitter Spurious Emissions | BT BLE | 1 Mbps    | 0/19/39 | TX    |

**Note** :Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product .

# 5.5 Test Facility

The test facility has a test site registered with the following organizations:

### IC – Registration No.: 7760A

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files. Registration number 7760A, October 15, 2015.

### FCC Test Site 1# Registration No.: 880581

Waltek Services (Shenzhen) Co.,Ltd. http://www.waltek.com.cn

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Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.

### • FCC Test Site 2#- Registration No.: 328995

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

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# 6 Equipment Used during Test

# 6.1 Equipments List

|       | cted Emissions at                          |                         | Disturbance Volta | age                 |                             |                         |
|-------|--|-------------------------|-------------------|---------------------|-----------------------------|-------------------------|
| Item  | Equipment                                  | Manufacturer            | Model No.         | Serial No.          | Last<br>Calibration<br>Date | Calibration<br>Due Date |
| 1.    | EMI Test Receiver                          | R&S                     | ESCI              | 101155              | Sep.15,2015                 | Sep.14,2016             |
| 2.    | LISN                                       | SCHWARZBECK             | NSLK 8128         | 8128-289            | Sep.15,2015                 | Sep.14,2016             |
| 3.    | Limiter                                    | York                    | MTS-IMP-136       | 261115-001-<br>0024 | Sep.15,2015                 | Sep.14,2016             |
| 4.    | Cable                                      | LARGE                   | RF300             | -                   | Sep.15,2015                 | Sep.14,2016             |
| 3m Se | mi-anechoic Cham                           | ber for Radiation       |                   |                     |                             |                         |
| Item  | Equipment                                  | Manufacturer            | Model No.         | Serial No.          | Last<br>Calibration<br>Date | Calibration<br>Due Date |
| 1     | EMC Analyzer                               | Agilent                 | E7405A            | MY45114943          | Sep.15,2015                 | Sep.14,2016             |
| 2     | Active Loop<br>Antenna                     | Beijing Dazhi           | ZN30900A          | -                   | Sep.15,2015                 | Sep.14,2016             |
| 3     | Trilog Broadband<br>Antenna                | SCHWARZBECK             | VULB9163          | 336                 | Apr.18,2016                 | Apr.17,2017             |
| 4     | Coaxial Cable<br>(below 1GHz)              | Тор                     | TYPE16(13M)       | -                   | Sep.15,2015                 | Sep.14,2016             |
| 5     | Broad-band Horn<br>Antenna                 | SCHWARZBECK             | BBHA 9120 D       | 667                 | Apr.18,2016                 | Apr.17,2017             |
| 6     | Broad-band Horn<br>Antenna                 | SCHWARZBECK             | BBHA 9120 D       | 669                 | Apr.18,2016                 | Apr.17,2017             |
| 7     | Broadband<br>Preamplifier                  | COMPLIANCE<br>DIRECTION | PAP-1G18          | 2004                | Mar.17,2016                 | Mar.16,2017             |
| 8     | Coaxial Cable (above 1GHz)                 | Тор                     | 1000MHz-25GHz     | EW02014-7           | Apr.09,2016                 | Apr.08,2017             |
| 9     | Broad-band Horn<br>Antenna                 | SCHWARZBECK             | BBHA 9170         | 335                 | Sep.15,2015                 | Sep.14,2016             |
| 10    | Universal Radio<br>Communication<br>Tester | R&S                     | CMU 200           | 112461              | Apr.10,2016                 | Apr.09,2017             |
| 11    | Signal Generator                           | R&S                     | SMR20             | 100046              | Sep.15,2015                 | Sep.14,2016             |
| RF Co | nducted Testing                            |                         |                   |                     |                             |                         |
| Item  | Equipment                                  | Manufacturer            | Model No.         | Serial No.          | Last<br>Calibration<br>Date | Calibration<br>Due Date |
| 1.    | EMC Analyzer<br>(9k~26.5GHz)               | Agilent                 | E7405A            | MY45114943          | Sep.15,2015                 | Sep.14,2016             |
| 2.    | Spectrum Analyzer (9k-6GHz)                | R&S                     | FSL6              | 100959              | Sep.15,2015                 | Sep.14,2016             |
| 3.    | Humidity Chamber                           | GF                      | GTH-225-40-1P     | IAA061213           | Sep.15,2015                 | Sep.14,2016             |

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# 6.2 Description of Support Units

| Equipment | Manufacturer | Model No. | Series No. |  |
|-----------|--------------|-----------|------------|--|
| 1         | 1            | 1         | /          |  |

# **6.3** Measurement Uncertainty

| Parameter                         | Uncertainty                       |
|-----------------------------------|-----------------------------------|
| Radio Frequency                   | ± 1 x 10 <sup>-6</sup>            |
| RF Power                          | ± 1.0 dB                          |
| RF Power Density                  | ± 2.2 dB                          |
|                                   | ± 5.03 dB (30M~1000MHz)           |
| Radiated Spurious Emissions test  | ± 5.47 dB (1000M~25000MHz)        |
| Conducted Spurious Emissions test | ± 3.64 dB (AC mains 150KHz~30MHz) |

# 6.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

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## 7 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.10:2009

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

Limit: 66-56 dB<sub>µ</sub>V between 0.15MHz & 0.5MHz

56 dB<sub>μ</sub>V between 0.5MHz & 5MHz60 dB<sub>μ</sub>V between 5MHz & 30MHz

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

### 7.1 E.U.T. Operation

Operating Environment:

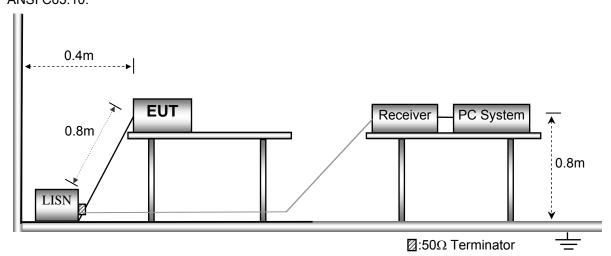
Temperature: 21.5 °C
Humidity: 51.9 % RH
Atmospheric Pressure: 101.2kPa

**EUT Operation:** 

The test was performed in WIFI link, BLE link mode, the worst data were shown in the report.

## 7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10.



## 7.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

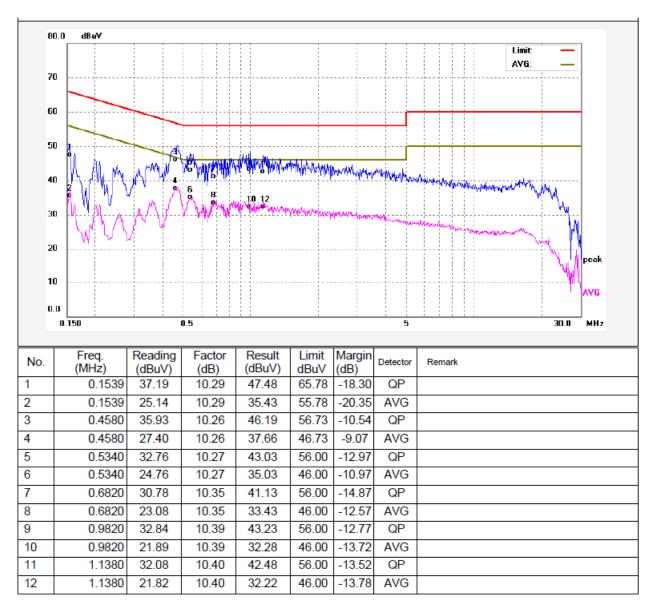
Waltek Services (Shenzhen) Co.,Ltd. http://www.waltek.com.cn

### 7.4 Conducted Emission Test Result

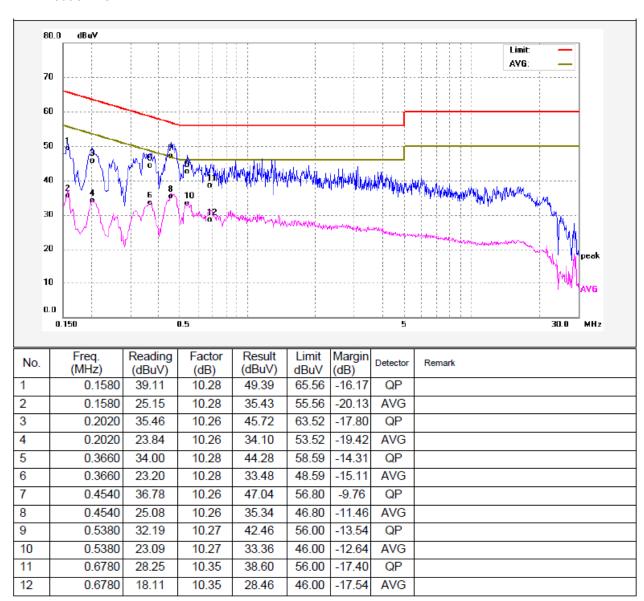
An initial pre-scan was performed on the live and neutral lines.

Worst Mode: WIFI mode

Live line:

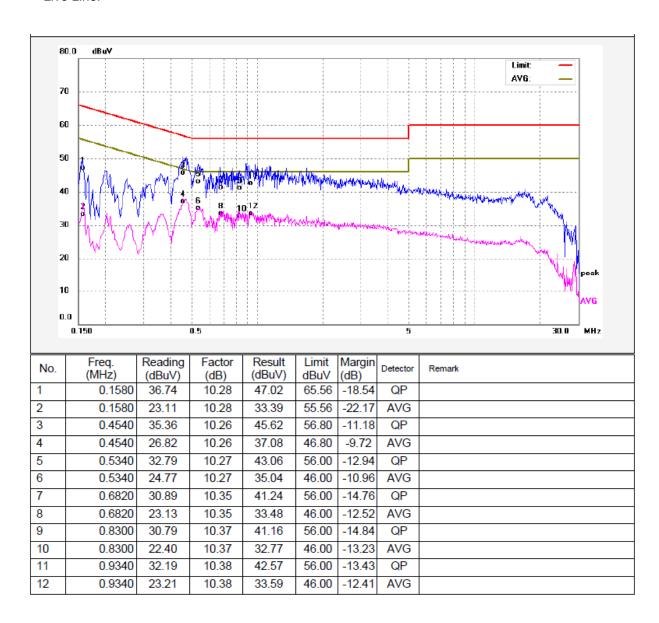


### Neutral line:

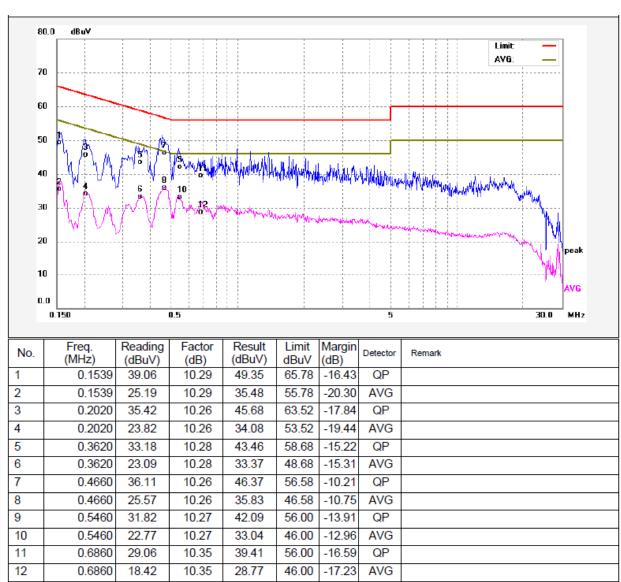


Worst Mode: BLE mode

Live Line:



### Neutral Line:



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# **8** Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.10:2009

Test Result: PASS
Measurement Distance: 3m

Limit:

| LIIIII.            |              |              |                         |                                      |
|--------------------|--------------|--------------|-------------------------|--------------------------------------|
| _                  | Field Strei  | ngth         | Field Strength Limit at | 3m Measurement Dist                  |
| Frequency<br>(MHz) | uV/m         | Distance (m) | uV/m                    | dBuV/m                               |
| 0.009 ~ 0.490      | 2400/F(kHz)  | 300          | 10000 * 2400/F(kHz)     | 20log <sup>(2400/F(kHz))</sup> + 80  |
| 0.490 ~ 1.705      | 24000/F(kHz) | 30           | 100 * 24000/F(kHz)      | 20log <sup>(24000/F(kHz))</sup> + 40 |
| 1.705 ~ 30         | 30           | 30           | 100 * 30                | 20log <sup>(30)</sup> + 40           |
| 30 ~ 88            | 100          | 3            | 100                     | 20log <sup>(100)</sup>               |
| 88 ~ 216           | 150          | 3            | 150                     | 20log <sup>(150)</sup>               |
| 216 ~ 960          | 200          | 3            | 200                     | 20log <sup>(200)</sup>               |
| Above 960          | 500          | 3            | 500                     | 20log <sup>(500)</sup>               |

# 8.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C
Humidity: 52.1 % RH
Atmospheric Pressure: 101.2kPa

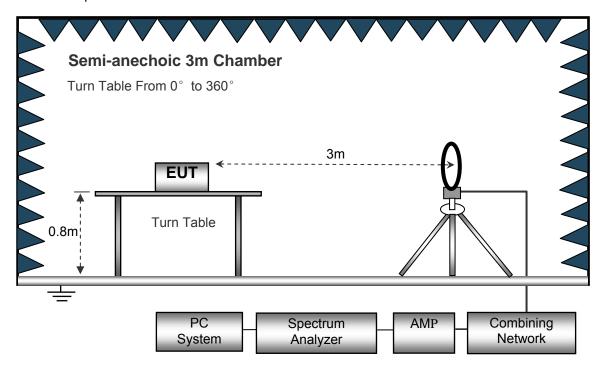
**EUT Operation:** 

The test was performed in WIFI link, BLE Link mode, the test data were shown in the report.

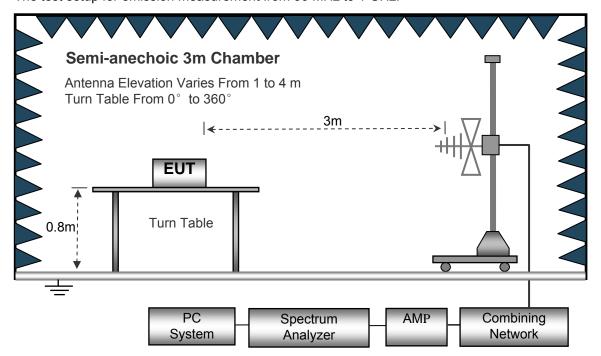
# 8.2 Test Setup

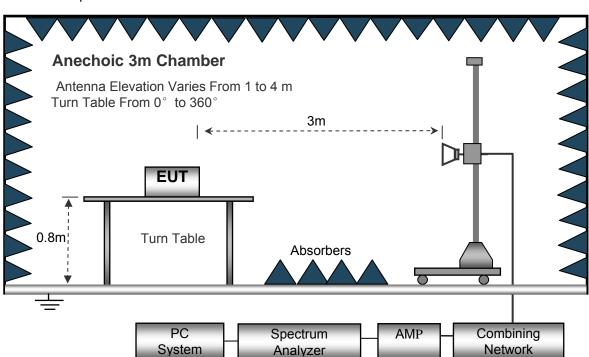
The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.





The test setup for emission measurement above 1 GHz.

# 8.3 Spectrum Analyzer Setup

| Below 30MHz  |                      |         |
|--------------|----------------------|---------|
|              | Sweep Speed          | . Auto  |
|              | IF Bandwidth         | .10kHz  |
|              | Video Bandwidth      | .10kHz  |
|              | Resolution Bandwidth | .10kHz  |
| 30MHz ~ 1GHz | z                    |         |
|              | Sweep Speed          | . Auto  |
|              | Detector             | .PK     |
|              | Resolution Bandwidth | .100kHz |
|              | Video Bandwidth      | .300kHz |
| Above 1GHz   |                      |         |
|              | Sweep Speed          | . Auto  |
|              | Detector             | .PK     |
|              | Resolution Bandwidth | .1MHz   |
|              | Video Bandwidth      | .3MHz   |
|              | Detector             | .Ave.   |
|              | Resolution Bandwidth | .1MHz   |
|              | Video Bandwidth      | .10Hz   |

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### 8.4 Test Procedure

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
- 8. A 2.4GHz high -pass filter is used druing radiated emissions above 1GHz measurement.

## 8.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. - Limit

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# 8.6 Summary of Test Results

Wifi:

Test Frequency : 26MHz ~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 18GHz

|                          | Receiver | Datastan    | Turn           | RX An  | tenna | Corrected | 0                      | FCC F<br>15.247/2 |        |
|--------------------------|----------|-------------|----------------|--------|-------|-----------|------------------------|-------------------|--------|
| Frequency                | Reading  | Detector    | table<br>Angle | Height | Polar | Factor    | Corrected<br>Amplitude | Limit             | Margin |
| (MHz)                    | (dBµV)   | (PK/QP/Ave) | Degree         | (m)    | (H/V) | (dB)      | (dBµV/m)               | (dBµV/m)          | (dB)   |
| 11b: Low Channel 2412MHz |          |             |                |        |       |           |                        |                   |        |
| 225.10                   | 41.96    | QP          | 351            | 1.8    | Н     | -11.62    | 30.34                  | 46.00             | -15.66 |
| 225.10                   | 37.15    | QP          | 133            | 1.8    | V     | -11.62    | 25.53                  | 46.00             | -20.47 |
| 4824.00                  | 49.94    | PK          | 315            | 1.1    | V     | -1.06     | 48.88                  | 74.00             | -25.12 |
| 4824.00                  | 47.02    | Ave         | 315            | 1.1    | V     | -1.06     | 45.96                  | 54.00             | -8.04  |
| 7236.00                  | 42.60    | PK          | 76             | 1.3    | Н     | 1.33      | 43.93                  | 74.00             | -30.07 |
| 7236.00                  | 40.37    | Ave         | 76             | 1.3    | Н     | 1.33      | 41.70                  | 54.00             | -12.30 |
| 2310.90                  | 46.65    | PK          | 223            | 1.1    | V     | -13.19    | 33.46                  | 74.00             | -40.54 |
| 2310.90                  | 37.97    | Ave         | 223            | 1.1    | V     | -13.19    | 24.78                  | 54.00             | -29.22 |
| 2386.30                  | 42.84    | PK          | 65             | 1.9    | Н     | -13.14    | 29.70                  | 74.00             | -44.30 |
| 2386.30                  | 36.17    | Ave         | 65             | 1.9    | Н     | -13.14    | 23.03                  | 54.00             | -30.97 |
| 2492.34                  | 43.54    | PK          | 128            | 1.7    | V     | -13.08    | 30.46                  | 74.00             | -43.54 |
| 2492.34                  | 36.91    | Ave         | 128            | 1.7    | V     | -13.08    | 23.83                  | 54.00             | -30.17 |

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| F         | Receiver | Datastan    | Turn           | RX An    | tenna   | Corrected | Carra ata d            | FCC Part<br>15.247/209/205 |        |
|-----------|----------|-------------|----------------|----------|---------|-----------|------------------------|----------------------------|--------|
| Frequency | Reading  | Detector    | table<br>Angle | Height   | Polar   | Factor    | Corrected<br>Amplitude | Limit                      | Margin |
| (MHz)     | (dBµV)   | (PK/QP/Ave) | Degree         | (m)      | (H/V)   | (dB)      | (dBµV/m)               | (dBµV/m)                   | (dB)   |
|           |          |             | 11b: Mid       | dle Chan | nel 243 | 7MHz      |                        |                            |        |
| 225.10    | 40.59    | QP          | 138            | 1.5      | Н       | -11.62    | 28.97                  | 46.00                      | -17.03 |
| 225.10    | 38.31    | QP          | 89             | 1.7      | V       | -11.62    | 26.69                  | 46.00                      | -19.31 |
| 4874.00   | 50.25    | PK          | 216            | 1.4      | V       | -0.62     | 49.63                  | 74.00                      | -24.37 |
| 4874.00   | 45.98    | Ave         | 216            | 1.4      | V       | -0.62     | 45.36                  | 54.00                      | -8.64  |
| 7311.00   | 41.18    | PK          | 281            | 1.3      | Н       | 2.21      | 43.39                  | 74.00                      | -30.61 |
| 7311.00   | 40.08    | Ave         | 281            | 1.3      | Н       | 2.21      | 42.29                  | 54.00                      | -11.71 |
| 2321.22   | 46.76    | PK          | 214            | 1.6      | V       | -13.19    | 33.57                  | 74.00                      | -40.43 |
| 2321.22   | 38.20    | Ave         | 214            | 1.6      | V       | -13.19    | 25.01                  | 54.00                      | -28.99 |
| 2356.06   | 43.15    | PK          | 337            | 1.5      | Н       | -13.14    | 30.01                  | 74.00                      | -43.99 |
| 2356.06   | 36.16    | Ave         | 337            | 1.5      | Н       | -13.14    | 23.02                  | 54.00                      | -30.98 |
| 2495.76   | 43.80    | PK          | 285            | 1.1      | V       | -13.08    | 30.72                  | 74.00                      | -43.28 |
| 2495.76   | 37.47    | Ave         | 285            | 1.1      | V       | -13.08    | 24.39                  | 54.00                      | -29.61 |

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|           | Receiver                  | Datastan    | Turn           | RX An  | tenna | Corrected | 0                      | FCC Part<br>15.247/209/205 |        |  |  |
|-----------|---------------------------|-------------|----------------|--------|-------|-----------|------------------------|----------------------------|--------|--|--|
| Frequency | Reading                   | Detector    | table<br>Angle | Height | Polar | Factor    | Corrected<br>Amplitude | Limit                      | Margin |  |  |
| (MHz)     | (dBµV)                    | (PK/QP/Ave) | Degree         | (m)    | (H/V) | (dB)      | (dBµV/m)               | (dBµV/m)                   | (dB)   |  |  |
|           | 11b: High Channel 2462MHz |             |                |        |       |           |                        |                            |        |  |  |
| 225.10    | 39.30                     | QP          | 333            | 1.9    | Н     | -11.62    | 27.68                  | 46.00                      | -18.32 |  |  |
| 225.10    | 37.16                     | QP          | 186            | 1.6    | V     | -11.62    | 25.54                  | 46.00                      | -20.46 |  |  |
| 4924.00   | 51.05                     | PK          | 250            | 1.7    | V     | -0.24     | 50.81                  | 74.00                      | -23.19 |  |  |
| 4924.00   | 44.94                     | Ave         | 250            | 1.7    | V     | -0.24     | 44.70                  | 54.00                      | -9.30  |  |  |
| 7386.00   | 42.12                     | PK          | 175            | 1.7    | Н     | 2.84      | 44.96                  | 74.00                      | -29.04 |  |  |
| 7386.00   | 38.85                     | Ave         | 175            | 1.7    | Н     | 2.84      | 41.69                  | 54.00                      | -12.31 |  |  |
| 2315.28   | 45.40                     | PK          | 247            | 1.8    | V     | -13.19    | 32.21                  | 74.00                      | -41.79 |  |  |
| 2315.28   | 38.84                     | Ave         | 247            | 1.8    | V     | -13.19    | 25.65                  | 54.00                      | -28.35 |  |  |
| 2368.59   | 44.71                     | PK          | 98             | 1.0    | Н     | -13.14    | 31.57                  | 74.00                      | -42.43 |  |  |
| 2368.59   | 38.41                     | Ave         | 98             | 1.0    | Н     | -13.14    | 25.27                  | 54.00                      | -28.73 |  |  |
| 2493.62   | 42.30                     | PK          | 89             | 1.9    | V     | -13.08    | 29.22                  | 74.00                      | -44.78 |  |  |
| 2493.62   | 37.37                     | Ave         | 89             | 1.9    | V     | -13.08    | 24.29                  | 54.00                      | -29.71 |  |  |

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|           | Receiver                 |             | Turn           | RX An  | tenna | Corrected |                        | FCC Part<br>15.247/209/205 |        |  |  |
|-----------|--------------------------|-------------|----------------|--------|-------|-----------|------------------------|----------------------------|--------|--|--|
| Frequency | Reading                  | Detector    | table<br>Angle | Height | Polar | Factor    | Corrected<br>Amplitude | Limit                      | Margin |  |  |
| (MHz)     | (dBµV)                   | (PK/QP/Ave) | Degree         | (m)    | (H/V) | (dB)      | (dBµV/m)               | (dBµV/m)                   | (dB)   |  |  |
|           | 11g: Low Channel 2412MHz |             |                |        |       |           |                        |                            |        |  |  |
| 225.10    | 38.69                    | QP          | 179            | 1.1    | Н     | -11.62    | 27.07                  | 46.00                      | -18.93 |  |  |
| 225.10    | 37.30                    | QP          | 273            | 1.6    | V     | -11.62    | 25.68                  | 46.00                      | -20.32 |  |  |
| 4824.00   | 49.82                    | PK          | 181            | 1.9    | V     | -1.06     | 48.76                  | 74.00                      | -25.24 |  |  |
| 4824.00   | 44.79                    | Ave         | 181            | 1.9    | V     | -1.06     | 43.73                  | 54.00                      | -10.27 |  |  |
| 7236.00   | 42.38                    | PK          | 56             | 1.2    | Н     | 1.33      | 43.71                  | 74.00                      | -30.29 |  |  |
| 7236.00   | 39.06                    | Ave         | 56             | 1.2    | Н     | 1.33      | 40.39                  | 54.00                      | -13.61 |  |  |
| 2338.02   | 46.49                    | PK          | 122            | 1.5    | V     | -13.19    | 33.30                  | 74.00                      | -40.70 |  |  |
| 2338.02   | 37.77                    | Ave         | 122            | 1.5    | V     | -13.19    | 24.58                  | 54.00                      | -29.42 |  |  |
| 2366.04   | 43.17                    | PK          | 331            | 1.0    | Н     | -13.14    | 30.03                  | 74.00                      | -43.97 |  |  |
| 2366.04   | 36.76                    | Ave         | 331            | 1.0    | Н     | -13.14    | 23.62                  | 54.00                      | -30.38 |  |  |
| 2497.63   | 42.57                    | PK          | 164            | 1.5    | V     | -13.08    | 29.49                  | 74.00                      | -44.51 |  |  |
| 2497.63   | 37.71                    | Ave         | 164            | 1.5    | V     | -13.08    | 24.63                  | 54.00                      | -29.37 |  |  |

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| F         | Receiver | Datastan    | Turn           | RX An    | tenna           | Corrected              | 0             | FCC F<br>15.247/2 |        |
|-----------|----------|-------------|----------------|----------|-----------------|------------------------|---------------|-------------------|--------|
| Frequency | Reading  | Detector    | table<br>Angle | Height   | Factor   Amplit | Corrected<br>Amplitude | Limit         | Margin            |        |
| (MHz)     | (dBµV)   | (PK/QP/Ave) | Degree         | (m)      | (H/V)           | (dB)                   | (dB) (dBµV/m) | (dBµV/m)          | (dB)   |
|           |          |             | 11g: Mid       | dle Chan | nel 243         | 7MHz                   |               |                   |        |
| 225.10    | 38.69    | QP          | 226            | 1.8      | Н               | -11.62                 | 27.07         | 46.00             | -18.93 |
| 225.10    | 36.84    | QP          | 180            | 1.3      | V               | -11.62                 | 25.22         | 46.00             | -20.78 |
| 4874.00   | 50.92    | PK          | 149            | 1.1      | V               | -0.62                  | 50.30         | 74.00             | -23.70 |
| 4874.00   | 44.90    | Ave         | 149            | 1.1      | V               | -0.62                  | 44.28         | 54.00             | -9.72  |
| 7311.00   | 42.94    | PK          | 219            | 1.8      | Н               | 2.21                   | 45.15         | 74.00             | -28.85 |
| 7311.00   | 39.68    | Ave         | 219            | 1.8      | Н               | 2.21                   | 41.89         | 54.00             | -12.11 |
| 2319.25   | 45.16    | PK          | 191            | 1.1      | V               | -13.19                 | 31.97         | 74.00             | -42.03 |
| 2319.25   | 38.16    | Ave         | 191            | 1.1      | V               | -13.19                 | 24.97         | 54.00             | -29.03 |
| 2386.73   | 44.90    | PK          | 319            | 1.1      | Н               | -13.14                 | 31.76         | 74.00             | -42.24 |
| 2386.73   | 36.32    | Ave         | 319            | 1.1      | Н               | -13.14                 | 23.18         | 54.00             | -30.82 |
| 2496.75   | 43.98    | PK          | 21             | 1.3      | V               | -13.08                 | 30.90         | 74.00             | -43.10 |
| 2496.75   | 36.81    | Ave         | 21             | 1.3      | V               | -13.08                 | 23.73         | 54.00             | -30.27 |

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| F         | Receiver | Detector    | Turn           | RX An    | tenna   | Corrected     | Corrected              | FCC F<br>15.247/2 |        |
|-----------|----------|-------------|----------------|----------|---------|---------------|------------------------|-------------------|--------|
| Frequency | Reading  | Detector    | table<br>Angle | Height   | Polar   | Factor        | Corrected<br>Amplitude | Limit             | Margin |
| (MHz)     | (dBµV)   | (PK/QP/Ave) | Degree         | (m)      | (H/V)   | (dB) (dBµV/m) | (dBµV/m)               | (dB)              |        |
|           |          |             | 11g: Hiç       | gh Chann | el 2462 | MHz           |                        |                   |        |
| 225.10    | 39.57    | QP          | 176            | 1.9      | Н       | -11.62        | 27.95                  | 46.00             | -18.05 |
| 225.10    | 37.17    | QP          | 66             | 1.4      | V       | -11.62        | 25.55                  | 46.00             | -20.45 |
| 4924.00   | 50.86    | PK          | 281            | 2.0      | V       | -0.24         | 50.62                  | 74.00             | -23.38 |
| 4924.00   | 46.09    | Ave         | 281            | 2.0      | V       | -0.24         | 45.85                  | 54.00             | -8.15  |
| 7386.00   | 43.02    | PK          | 189            | 1.3      | Н       | 2.84          | 45.86                  | 74.00             | -28.14 |
| 7386.00   | 41.10    | Ave         | 189            | 1.3      | Н       | 2.84          | 43.94                  | 54.00             | -10.06 |
| 2338.95   | 45.65    | PK          | 213            | 1.3      | V       | -13.19        | 32.46                  | 74.00             | -41.54 |
| 2338.95   | 37.07    | Ave         | 213            | 1.3      | V       | -13.19        | 23.88                  | 54.00             | -30.12 |
| 2370.70   | 44.25    | PK          | 190            | 1.5      | Н       | -13.14        | 31.11                  | 74.00             | -42.89 |
| 2370.70   | 37.85    | Ave         | 190            | 1.5      | Н       | -13.14        | 24.71                  | 54.00             | -29.29 |
| 2488.16   | 42.98    | PK          | 337            | 1.3      | V       | -13.08        | 29.90                  | 74.00             | -44.10 |
| 2488.16   | 37.24    | Ave         | 337            | 1.3      | V       | -13.08        | 24.16                  | 54.00             | -29.84 |

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|           | Receiver                 | Detector    | Turn           | RX An  | tenna | Corrected     | 0                      | FCC Part<br>15.247/209/205 |        |  |  |
|-----------|--------------------------|-------------|----------------|--------|-------|---------------|------------------------|----------------------------|--------|--|--|
| Frequency | Reading                  | Detector    | table<br>Angle | Height | Polar | Factor        | Corrected<br>Amplitude | Limit                      | Margin |  |  |
| (MHz)     | (dBµV)                   | (PK/QP/Ave) | Degree         | (m)    | (H/V) | (dB) (dBµV/m) | (dBµV/m)               | (dB)                       |        |  |  |
|           | n20: Low Channel 2412MHz |             |                |        |       |               |                        |                            |        |  |  |
| 225.10    | 40.51                    | QP          | 252            | 1.3    | Н     | -11.62        | 28.89                  | 46.00                      | -17.11 |  |  |
| 225.10    | 35.76                    | QP          | 200            | 1.3    | V     | -11.62        | 24.14                  | 46.00                      | -21.86 |  |  |
| 4824.00   | 50.68                    | PK          | 59             | 1.0    | V     | -1.06         | 49.62                  | 74.00                      | -24.38 |  |  |
| 4824.00   | 46.07                    | Ave         | 59             | 1.0    | V     | -1.06         | 45.01                  | 54.00                      | -8.99  |  |  |
| 7236.00   | 42.42                    | PK          | 235            | 1.1    | Н     | 1.33          | 43.75                  | 74.00                      | -30.25 |  |  |
| 7236.00   | 40.75                    | Ave         | 235            | 1.1    | Н     | 1.33          | 42.08                  | 54.00                      | -11.92 |  |  |
| 2334.32   | 45.21                    | PK          | 344            | 1.4    | V     | -13.19        | 32.02                  | 74.00                      | -41.98 |  |  |
| 2334.32   | 37.07                    | Ave         | 344            | 1.4    | V     | -13.19        | 23.88                  | 54.00                      | -30.12 |  |  |
| 2364.12   | 43.73                    | PK          | 201            | 1.9    | Н     | -13.14        | 30.59                  | 74.00                      | -43.41 |  |  |
| 2364.12   | 36.37                    | Ave         | 201            | 1.9    | Н     | -13.14        | 23.23                  | 54.00                      | -30.77 |  |  |
| 2487.67   | 43.69                    | PK          | 312            | 1.7    | V     | -13.08        | 30.61                  | 74.00                      | -43.39 |  |  |
| 2487.67   | 37.32                    | Ave         | 312            | 1.7    | V     | -13.08        | 24.24                  | 54.00                      | -29.76 |  |  |

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|           | Receiver | D 1 1       | Turn           | RX An    | tenna   | Corrected |                        | FCC Part<br>15.247/209/205 |        |
|-----------|----------|-------------|----------------|----------|---------|-----------|------------------------|----------------------------|--------|
| Frequency | Reading  | Detector    | table<br>Angle | Height   | Polar   | Factor    | Corrected<br>Amplitude | Limit                      | Margin |
| (MHz)     | (dBµV)   | (PK/QP/Ave) | Degree         | (m)      | (H/V)   | (dB)      | (dBµV/m)               | (dBµV/m)                   | (dB)   |
|           |          |             | n20: Mid       | dle Chan | nel 243 | 7MHz      |                        |                            |        |
| 225.10    | 39.50    | QP          | 199            | 1.5      | Н       | -11.62    | 27.88                  | 46.00                      | -18.12 |
| 225.10    | 36.58    | QP          | 24             | 1.5      | V       | -11.62    | 24.96                  | 46.00                      | -21.04 |
| 4874.00   | 49.25    | PK          | 40             | 1.7      | V       | -0.62     | 48.63                  | 74.00                      | -25.37 |
| 4874.00   | 46.68    | Ave         | 40             | 1.7      | V       | -0.62     | 46.06                  | 54.00                      | -7.94  |
| 7311.00   | 43.89    | PK          | 137            | 1.5      | Н       | 2.21      | 46.10                  | 74.00                      | -27.90 |
| 7311.00   | 40.92    | Ave         | 137            | 1.5      | Н       | 2.21      | 43.13                  | 54.00                      | -10.87 |
| 2318.03   | 46.99    | PK          | 164            | 1.3      | V       | -13.19    | 33.80                  | 74.00                      | -40.20 |
| 2318.03   | 38.94    | Ave         | 164            | 1.3      | V       | -13.19    | 25.75                  | 54.00                      | -28.25 |
| 2376.20   | 43.78    | PK          | 47             | 1.8      | Н       | -13.14    | 30.64                  | 74.00                      | -43.36 |
| 2376.20   | 38.13    | Ave         | 47             | 1.8      | Н       | -13.14    | 24.99                  | 54.00                      | -29.01 |
| 2491.02   | 42.37    | PK          | 340            | 1.7      | V       | -13.08    | 29.29                  | 74.00                      | -44.71 |
| 2491.02   | 37.26    | Ave         | 340            | 1.7      | V       | -13.08    | 24.18                  | 54.00                      | -29.82 |

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|           | Receiver                  | 5           | Turn           | RX An  | tenna | Corrected |                        | FCC Part<br>15.247/209/205 |        |  |  |
|-----------|---------------------------|-------------|----------------|--------|-------|-----------|------------------------|----------------------------|--------|--|--|
| Frequency | Reading                   | Detector    | table<br>Angle | Height | Polar | Factor    | Corrected<br>Amplitude | Limit                      | Margin |  |  |
| (MHz)     | (dBµV)                    | (PK/QP/Ave) | Degree         | (m)    | (H/V) | (dB)      | (dBµV/m)               | (dBµV/m)                   | (dB)   |  |  |
|           | n20: High Channel 2462MHz |             |                |        |       |           |                        |                            |        |  |  |
| 225.10    | 40.74                     | QP          | 155            | 1.8    | Н     | -11.62    | 29.12                  | 46.00                      | -16.88 |  |  |
| 225.10    | 35.86                     | QP          | 65             | 1.9    | V     | -11.62    | 24.24                  | 46.00                      | -21.76 |  |  |
| 4924.00   | 50.21                     | PK          | 123            | 1.2    | V     | -0.24     | 49.97                  | 74.00                      | -24.03 |  |  |
| 4924.00   | 46.48                     | Ave         | 123            | 1.2    | V     | -0.24     | 46.24                  | 54.00                      | -7.76  |  |  |
| 7386.00   | 44.90                     | PK          | 293            | 1.0    | Н     | 2.84      | 47.74                  | 74.00                      | -26.26 |  |  |
| 7386.00   | 41.01                     | Ave         | 293            | 1.0    | Н     | 2.84      | 43.85                  | 54.00                      | -10.15 |  |  |
| 2319.67   | 45.83                     | PK          | 288            | 1.0    | V     | -13.19    | 32.64                  | 74.00                      | -41.36 |  |  |
| 2319.67   | 39.48                     | Ave         | 288            | 1.0    | V     | -13.19    | 26.29                  | 54.00                      | -27.71 |  |  |
| 2355.09   | 43.51                     | PK          | 221            | 1.7    | Н     | -13.14    | 30.37                  | 74.00                      | -43.63 |  |  |
| 2355.09   | 37.68                     | Ave         | 221            | 1.7    | Н     | -13.14    | 24.54                  | 54.00                      | -29.46 |  |  |
| 2485.47   | 43.83                     | PK          | 94             | 1.4    | V     | -13.08    | 30.75                  | 74.00                      | -43.25 |  |  |
| 2485.47   | 36.39                     | Ave         | 94             | 1.4    | V     | -13.08    | 23.31                  | 54.00                      | -30.69 |  |  |

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|           | Receiver                 | Datastan    | Turn           | RX An  | tenna | Corrected | 0                      | FCC Part<br>15.247/209/205 |        |  |  |
|-----------|--------------------------|-------------|----------------|--------|-------|-----------|------------------------|----------------------------|--------|--|--|
| Frequency | Reading                  | Detector    | table<br>Angle | Height | Polar | Factor    | Corrected<br>Amplitude | Limit                      | Margin |  |  |
| (MHz)     | (dBµV)                   | (PK/QP/Ave) | Degree         | (m)    | (H/V) | (dB)      | (dBµV/m)               | (dBµV/m)                   | (dB)   |  |  |
|           | N40: Low Channel 2422MHz |             |                |        |       |           |                        |                            |        |  |  |
| 225.10    | 39.31                    | QP          | 91             | 1.1    | Н     | -11.62    | 27.69                  | 46.00                      | -18.31 |  |  |
| 225.10    | 36.57                    | QP          | 17             | 1.3    | V     | -11.62    | 24.95                  | 46.00                      | -21.05 |  |  |
| 4844.00   | 49.01                    | PK          | 264            | 1.4    | V     | -1.06     | 47.95                  | 74.00                      | -26.05 |  |  |
| 4844.00   | 44.14                    | Ave         | 264            | 1.4    | V     | -1.06     | 43.08                  | 54.00                      | -10.92 |  |  |
| 7266.00   | 43.37                    | PK          | 26             | 1.9    | Н     | 1.33      | 44.70                  | 74.00                      | -29.30 |  |  |
| 7266.00   | 38.23                    | Ave         | 26             | 1.9    | Н     | 1.33      | 39.56                  | 54.00                      | -14.44 |  |  |
| 2345.58   | 46.31                    | PK          | 62             | 1.5    | V     | -13.19    | 33.12                  | 74.00                      | -40.88 |  |  |
| 2345.58   | 38.16                    | Ave         | 62             | 1.5    | V     | -13.19    | 24.97                  | 54.00                      | -29.03 |  |  |
| 2377.20   | 44.00                    | PK          | 31             | 1.5    | Н     | -13.14    | 30.86                  | 74.00                      | -43.14 |  |  |
| 2377.20   | 38.92                    | Ave         | 31             | 1.5    | Н     | -13.14    | 25.78                  | 54.00                      | -28.22 |  |  |
| 2495.78   | 42.81                    | PK          | 103            | 1.0    | V     | -13.08    | 29.73                  | 74.00                      | -44.27 |  |  |
| 2495.78   | 36.42                    | Ave         | 103            | 1.0    | V     | -13.08    | 23.34                  | 54.00                      | -30.66 |  |  |

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| Eroguenes | Receiver                    | Datastan    | Turn<br>table | RX An                  | tenna | Corrected | Corrected | FCC F<br>15.247/2 |        |
|-----------|-----------------------------|-------------|---------------|------------------------|-------|-----------|-----------|-------------------|--------|
| Frequency | Reading                     | Detector    | Lactor        | Corrected<br>Amplitude | Limit | Margin    |           |                   |        |
| (MHz)     | (dBµV)                      | (PK/QP/Ave) | Degree        | (m)                    | (H/V) | (dB)      | (dBµV/m)  | (dBµV/m)          | (dB)   |
|           | N40: Middle Channel 2437MHz |             |               |                        |       |           |           |                   |        |
| 225.10    | 39.89                       | QP          | 271           | 1.9                    | Н     | -11.62    | 28.27     | 46.00             | -17.73 |
| 225.10    | 36.13                       | QP          | 233           | 1.7                    | V     | -11.62    | 24.51     | 46.00             | -21.49 |
| 4874.00   | 49.90                       | PK          | 275           | 1.3                    | V     | -0.62     | 49.28     | 74.00             | -24.72 |
| 4874.00   | 43.39                       | Ave         | 275           | 1.3                    | V     | -0.62     | 42.77     | 54.00             | -11.23 |
| 7311.00   | 43.13                       | PK          | 20            | 1.5                    | Н     | 2.21      | 45.34     | 74.00             | -28.66 |
| 7311.00   | 38.44                       | Ave         | 20            | 1.5                    | Н     | 2.21      | 40.65     | 54.00             | -13.35 |
| 2344.45   | 45.64                       | PK          | 120           | 1.3                    | V     | -13.19    | 32.45     | 74.00             | -41.55 |
| 2344.45   | 37.94                       | Ave         | 120           | 1.3                    | V     | -13.19    | 24.75     | 54.00             | -29.25 |
| 2384.30   | 44.29                       | PK          | 183           | 1.3                    | Н     | -13.14    | 31.15     | 74.00             | -42.85 |
| 2384.30   | 37.86                       | Ave         | 183           | 1.3                    | Н     | -13.14    | 24.72     | 54.00             | -29.28 |
| 2489.66   | 44.32                       | PK          | 222           | 1.1                    | V     | -13.08    | 31.24     | 74.00             | -42.76 |
| 2489.66   | 38.27                       | Ave         | 222           | 1.1                    | V     | -13.08    | 25.19     | 54.00             | -28.81 |

| Fraguanay | Receiver | 1)efector table | Corrected | Corrected | FCC Part<br>15.247/209/205 |        |                        |          |        |
|-----------|----------|-----------------|-----------|-----------|----------------------------|--------|------------------------|----------|--------|
| Frequency | Reading  |                 |           | Height    | Polar                      | Factor | Corrected<br>Amplitude | Limit    | Margin |
| (MHz)     | (dBµV)   | (PK/QP/Ave)     | Degree    | (m)       | (H/V)                      | (dB)   | (dBµV/m)               | (dBµV/m) | (dB)   |
|           |          |                 | N40: Hi   | gh Chanr  | nel 2452                   | MHz    |                        |          |        |
| 225.10    | 39.17    | QP              | 131       | 1.7       | Н                          | -11.62 | 27.55                  | 46.00    | -18.45 |
| 225.10    | 35.98    | QP              | 251       | 1.8       | V                          | -11.62 | 24.36                  | 46.00    | -21.64 |
| 4904.00   | 50.80    | PK              | 37        | 1.4       | V                          | -0.24  | 50.56                  | 74.00    | -23.44 |
| 4904.00   | 43.90    | Ave             | 37        | 1.4       | V                          | -0.24  | 43.66                  | 54.00    | -10.34 |
| 7356.00   | 42.94    | PK              | 135       | 1.8       | Н                          | 2.84   | 45.78                  | 74.00    | -28.22 |
| 7356.00   | 39.38    | Ave             | 135       | 1.8       | Н                          | 2.84   | 42.22                  | 54.00    | -11.78 |
| 2345.55   | 46.01    | PK              | 206       | 1.4       | V                          | -13.19 | 32.82                  | 74.00    | -41.18 |
| 2345.55   | 39.27    | Ave             | 206       | 1.4       | V                          | -13.19 | 26.08                  | 54.00    | -27.92 |
| 2373.83   | 42.55    | PK              | 167       | 1.9       | Н                          | -13.14 | 29.41                  | 74.00    | -44.59 |
| 2373.83   | 37.34    | Ave             | 167       | 1.9       | Н                          | -13.14 | 24.20                  | 54.00    | -29.80 |
| 2491.91   | 42.17    | PK              | 255       | 1.8       | V                          | -13.08 | 29.09                  | 74.00    | -44.91 |
| 2491.91   | 36.51    | Ave             | 255       | 1.8       | V                          | -13.08 | 23.43                  | 54.00    | -30.57 |

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

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## BT BLE:

Test Frequency : 26MHz ~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency : 30MHz ~ 18GHz

| Frequency | Receiver |             | Turn           | RX An   | tenna  | Corrected Corrected Factor Amplitude | Corrected |          | Margin |
|-----------|----------|-------------|----------------|---------|--------|--------------------------------------|-----------|----------|--------|
|           | Reading  | Detector    | table<br>Angle | Height  | Polar  |                                      | Amplitude | Limit    |        |
| (MHz)     | (dBµV)   | (PK/QP/Ave) | Degree         | (m)     | (H/V)  | (dB)                                 | (dBµV/m)  | (dBµV/m) | (dB)   |
|           |          |             | Low            | Channel | 2402MF | łz                                   |           |          |        |
| 269.00    | 37.81    | QP          | 105            | 2.0     | Н      | -13.35                               | 24.46     | 46.00    | -21.54 |
| 269.00    | 42.33    | QP          | 282            | 1.5     | V      | -13.35                               | 28.98     | 46.00    | -17.02 |
| 4804.00   | 45.05    | PK          | 196            | 1.7     | V      | -1.06                                | 43.99     | 74.00    | -30.01 |
| 4804.00   | 44.62    | Ave         | 196            | 1.7     | V      | -1.06                                | 43.56     | 54.00    | -10.44 |
| 7206.00   | 39.62    | PK          | 109            | 2.0     | Н      | 1.33                                 | 40.95     | 74.00    | -33.05 |
| 7206.00   | 36.19    | Ave         | 109            | 2.0     | Н      | 1.33                                 | 37.52     | 54.00    | -16.48 |
| 2330.02   | 46.69    | PK          | 294            | 1.2     | V      | -13.19                               | 33.50     | 74.00    | -40.50 |
| 2330.02   | 38.15    | Ave         | 294            | 1.2     | V      | -13.19                               | 24.96     | 54.00    | -29.04 |
| 2366.65   | 43.68    | PK          | 296            | 1.3     | Н      | -13.14                               | 30.54     | 74.00    | -43.46 |
| 2366.65   | 38.29    | Ave         | 296            | 1.3     | Н      | -13.14                               | 25.15     | 54.00    | -28.85 |
| 2488.14   | 44.13    | PK          | 53             | 1.1     | V      | -13.08                               | 31.05     | 74.00    | -42.95 |
| 2488.14   | 36.55    | Ave         | 53             | 1.1     | V      | -13.08                               | 23.47     | 54.00    | -30.53 |

| Frequency | Receiver               |             | Turn           | RX An  | tenna | Corrected | Corrected Corrected Factor Amplitude | Limit    | Margin |
|-----------|------------------------|-------------|----------------|--------|-------|-----------|--------------------------------------|----------|--------|
|           | Reading                | Detector    | table<br>Angle | Height | Polar | Factor    |                                      |          |        |
| (MHz)     | (dBµV)                 | (PK/QP/Ave) | Degree         | (m)    | (H/V) | (dB)      | (dBµV/m)                             | (dBµV/m) | (dB)   |
|           | Middle Channel 2440MHz |             |                |        |       |           |                                      |          |        |
| 269.00    | 39.05                  | QP          | 88             | 1.6    | Н     | -13.35    | 25.70                                | 46.00    | -20.30 |
| 269.00    | 43.14                  | QP          | 114            | 1.8    | V     | -13.35    | 29.79                                | 46.00    | -16.21 |
| 4880.00   | 47.56                  | PK          | 246            | 1.3    | V     | -0.62     | 46.94                                | 74.00    | -27.06 |
| 4880.00   | 44.63                  | Ave         | 246            | 1.3    | V     | -0.62     | 44.01                                | 54.00    | -9.99  |
| 7320.00   | 40.90                  | PK          | 49             | 1.1    | Н     | 2.21      | 43.11                                | 74.00    | -30.89 |
| 7320.00   | 37.04                  | Ave         | 49             | 1.1    | Н     | 2.21      | 39.25                                | 54.00    | -14.75 |
| 2316.73   | 46.73                  | PK          | 310            | 1.8    | V     | -13.19    | 33.54                                | 74.00    | -40.46 |
| 2316.73   | 39.93                  | Ave         | 310            | 1.8    | V     | -13.19    | 26.74                                | 54.00    | -27.26 |
| 2369.05   | 43.55                  | PK          | 77             | 1.6    | Н     | -13.14    | 30.41                                | 74.00    | -43.59 |
| 2369.05   | 37.33                  | Ave         | 77             | 1.6    | Н     | -13.14    | 24.19                                | 54.00    | -29.81 |
| 2494.51   | 43.73                  | PK          | 273            | 1.4    | V     | -13.08    | 30.65                                | 74.00    | -43.35 |
| 2494.51   | 37.21                  | Ave         | 273            | 1.4    | V     | -13.08    | 24.13                                | 54.00    | -29.87 |

|           | Receiver |             | Turn           | RX An     | tenna  | Corrected | d Corrected Amplitude | Limit    | Margin |
|-----------|----------|-------------|----------------|-----------|--------|-----------|-----------------------|----------|--------|
| Frequency | Reading  | Detector    | table<br>Angle | Height    | Polar  | Factor    |                       |          |        |
| (MHz)     | (dBµV)   | (PK/QP/Ave) | Degree         | (m)       | (H/V)  | (dB)      | (dBµV/m)              | (dBµV/m) | (dB)   |
|           |          |             | High           | Channel 2 | 2480MH | Z         |                       |          |        |
| 269.00    | 38.69    | QP          | 237            | 1.2       | Н      | -13.35    | 25.34                 | 46.00    | -20.66 |
| 269.00    | 41.80    | QP          | 165            | 1.1       | V      | -13.35    | 28.45                 | 46.00    | -17.55 |
| 4960.00   | 50.01    | PK          | 199            | 1.2       | V      | -0.24     | 49.77                 | 74.00    | -24.23 |
| 4960.00   | 44.38    | Ave         | 199            | 1.2       | V      | -0.24     | 44.14                 | 54.00    | -9.86  |
| 7440.00   | 43.12    | PK          | 295            | 1.4       | Н      | 2.84      | 45.96                 | 74.00    | -28.04 |
| 7440.00   | 36.41    | Ave         | 295            | 1.4       | Н      | 2.84      | 39.25                 | 54.00    | -14.75 |
| 2336.44   | 45.99    | PK          | 103            | 1.9       | V      | -13.19    | 32.80                 | 74.00    | -41.20 |
| 2336.44   | 39.97    | Ave         | 103            | 1.9       | V      | -13.19    | 26.78                 | 54.00    | -27.22 |
| 2386.66   | 43.46    | PK          | 87             | 1.2       | Н      | -13.14    | 30.32                 | 74.00    | -43.68 |
| 2386.66   | 36.37    | Ave         | 87             | 1.2       | Н      | -13.14    | 23.23                 | 54.00    | -30.77 |
| 2495.80   | 42.04    | PK          | 11             | 1.8       | V      | -13.08    | 28.96                 | 74.00    | -45.04 |
| 2495.80   | 38.89    | Ave         | 11             | 1.8       | V      | -13.08    | 25.81                 | 54.00    | -28.19 |

# Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

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# 9 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r04 January 7,

2016

Test Result: PASS

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

#### 9.1 Test Procedure

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2. Set the spectrum analyzer:

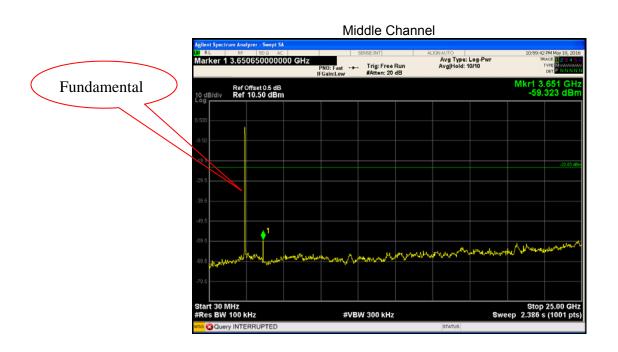
RBW = 100kHz, VBW = 300kHz, Sweep = auto

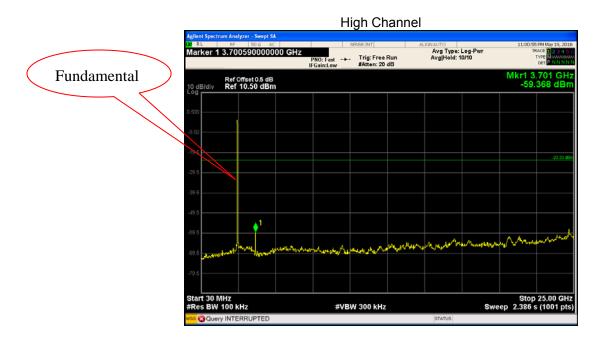
Detector function = peak, Trace = max hold

#### 9.2 Test Result

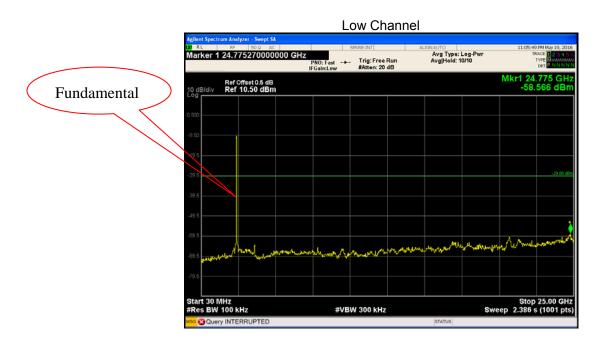
802.11b

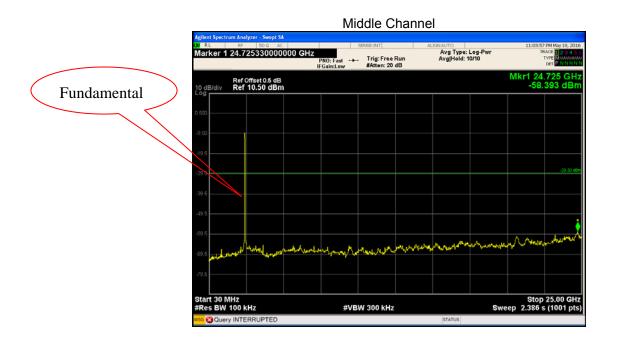


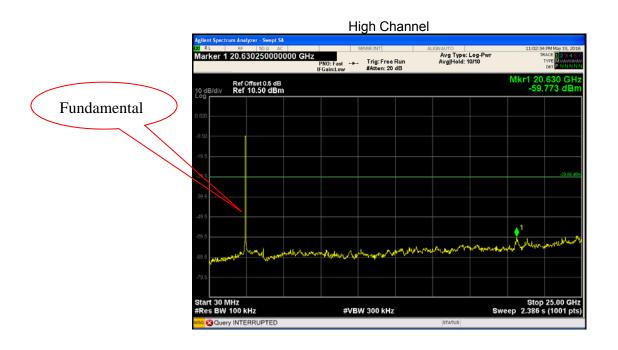




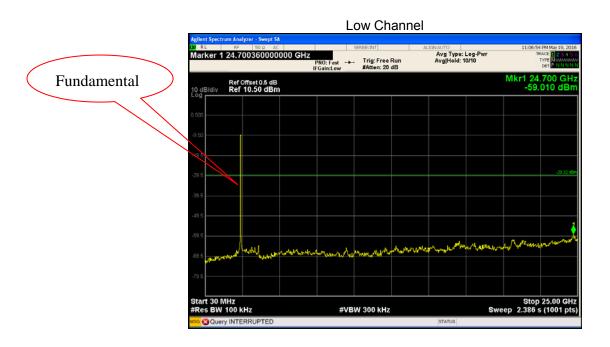
802.11g

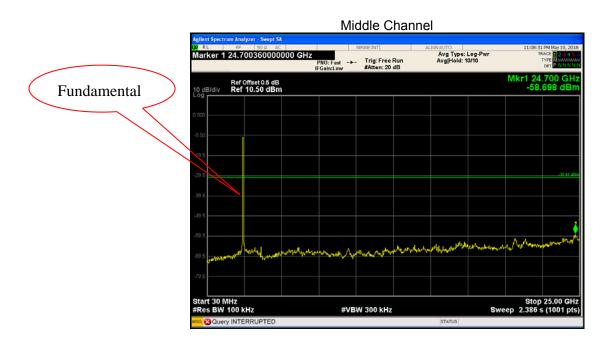


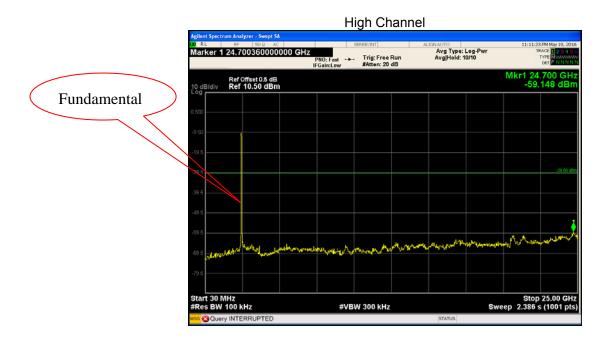




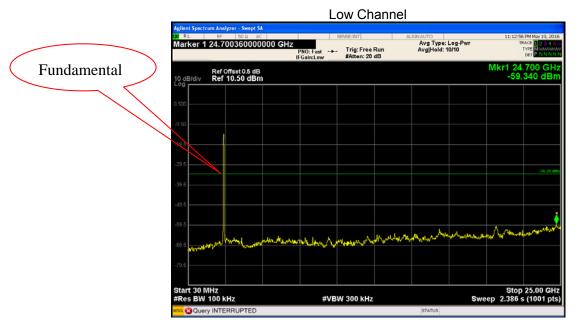
802.11n HT20

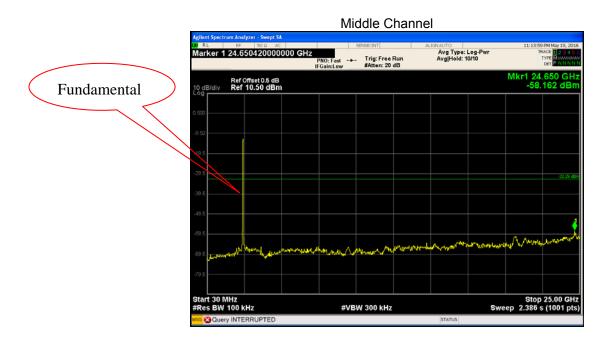


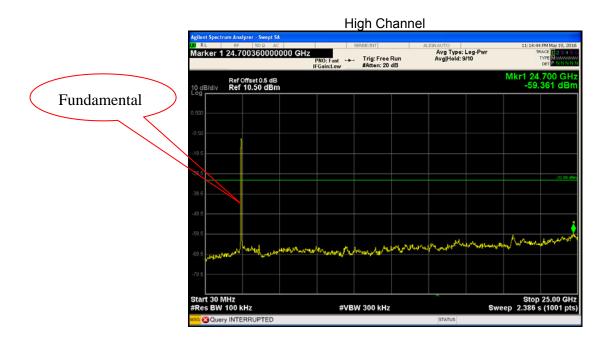




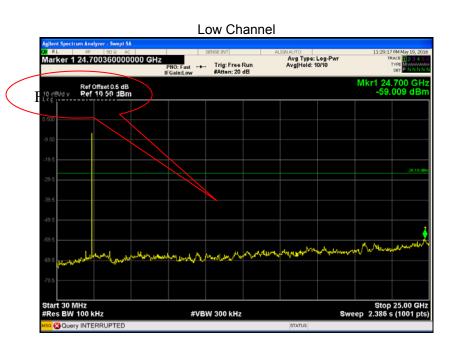
## 802.11n HT40

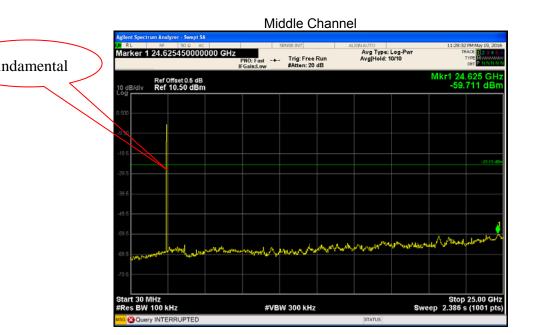


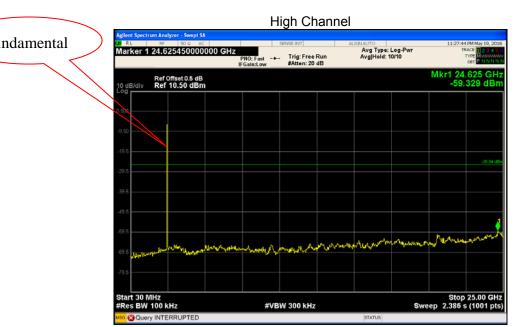




#### **BLE GFSK**







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### 10 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r04 January 7, 2016

Test Limit: Regulation 15.247 (d), In any 100 kHz bandwidth outside the

frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated 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) (see §15.205(c)).

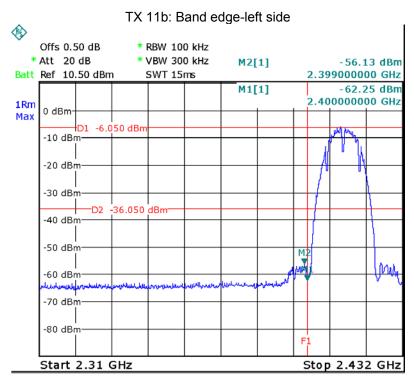
Test Mode: Transmitting

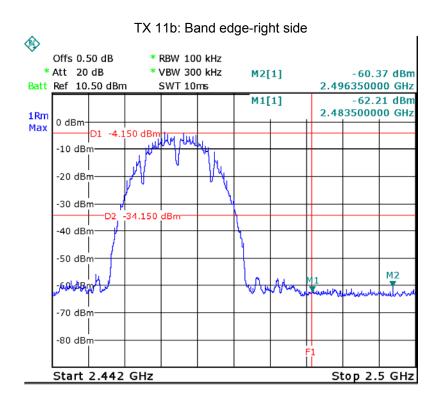
#### 10.1 Test Produce

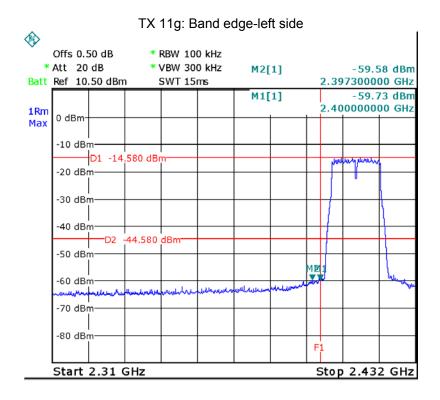
- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

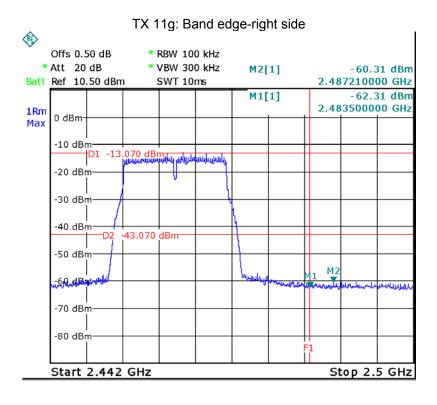
#### 10.2 Test Result

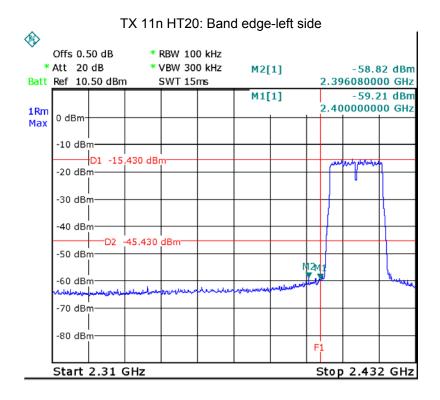
Test result plots shown as follows:

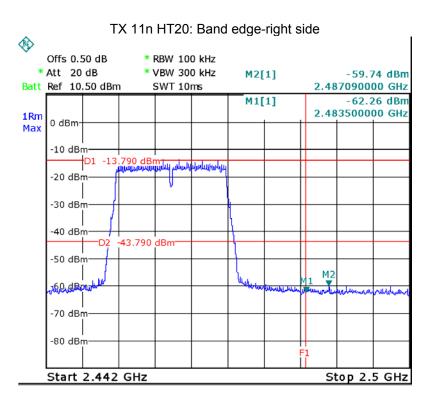


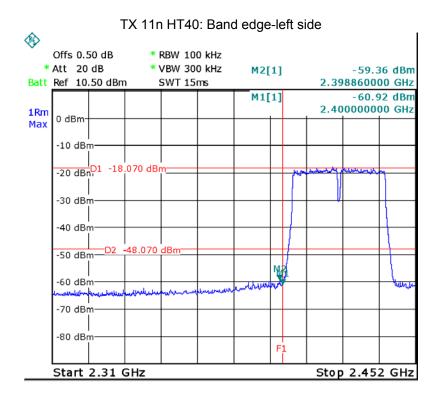


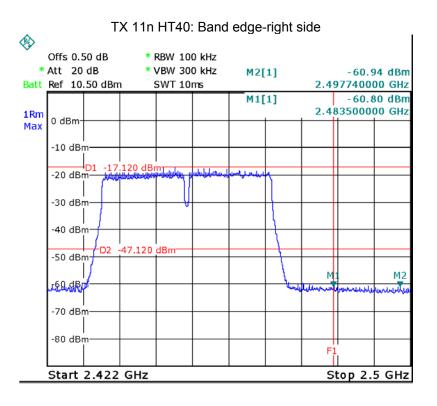


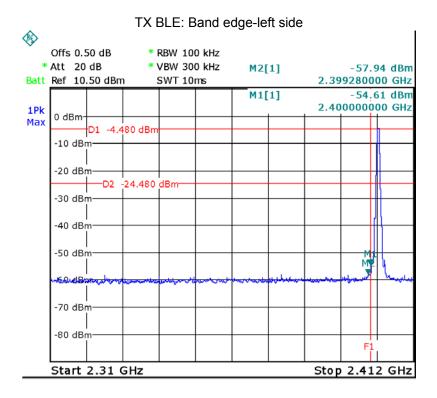


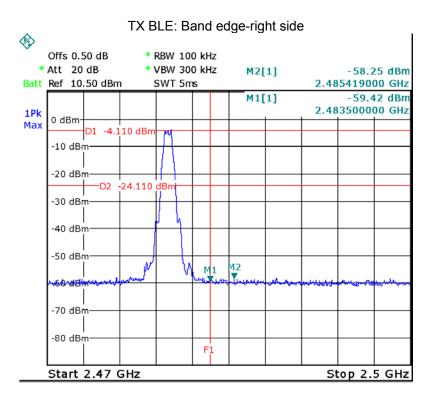












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## 11 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r04 January 7, 2016

### 11.1 aTest Procedure:

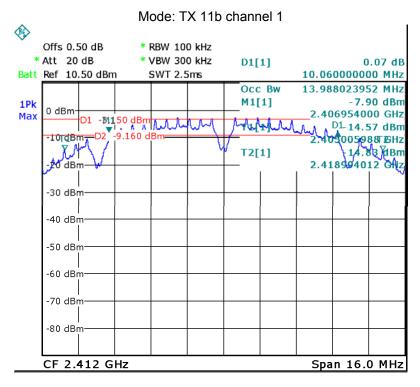
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

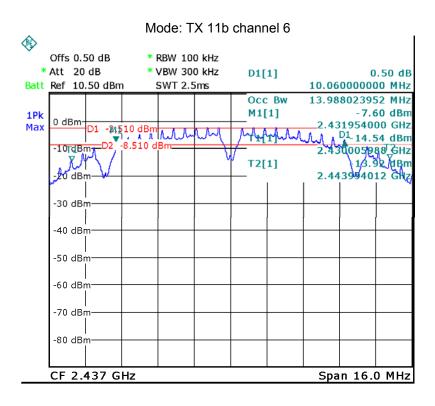
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

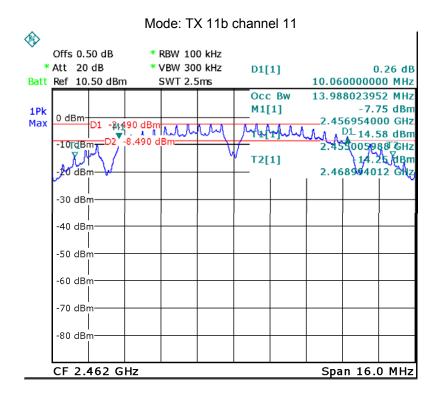
#### 11.2 Test Result:

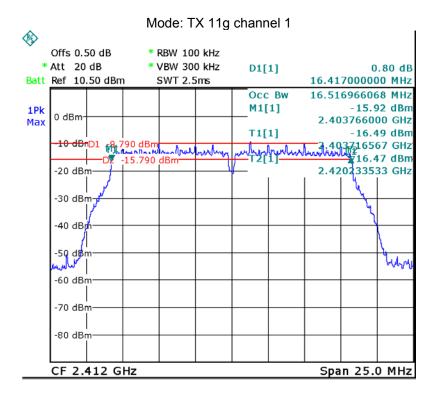
| Operation mode | Bandwidth (MHz) |            |            |
|----------------|-----------------|------------|------------|
|                | Channel 1       | Channel 6  | Channel 11 |
| TX 11b         | 10.060          | 10.060     | 10.060     |
|                | Channel 1       | Channel 6  | Channel 11 |
| TX 11g         | 16.417          | 16.417     | 16.417     |
| TX 11n HT20    | Channel 1       | Channel 6  | Channel 11 |
|                | 17.623          | 17.623     | 17.623     |
| TV 44 11742    | Channel 3       | Channel 6  | Channel 9  |
| TX 11n HT40    | 36.230          | 36.230     | 36.230     |
|                | Channel 0       | Channel 19 | Channel 39 |
| BT BLE         | 0.718           | 0.718      | 0.718      |

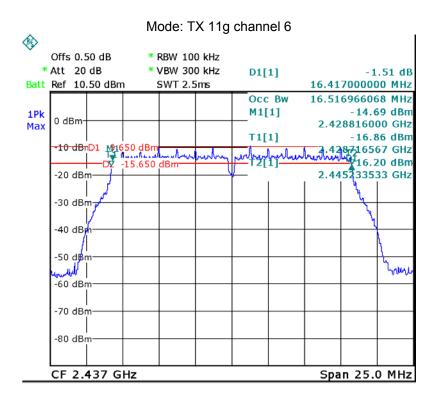
#### Test result plot as follows:

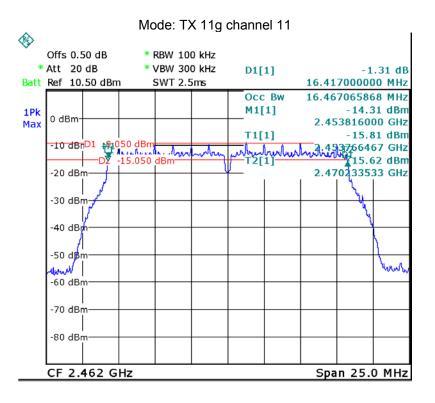


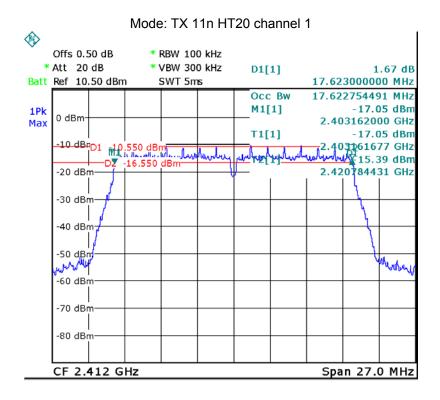


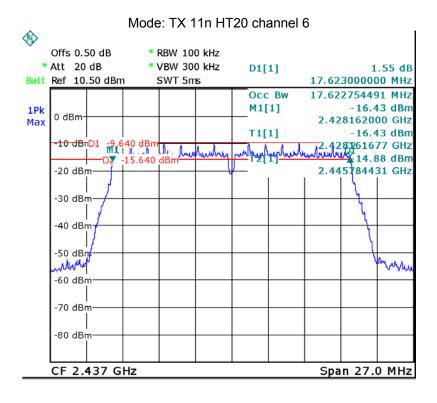


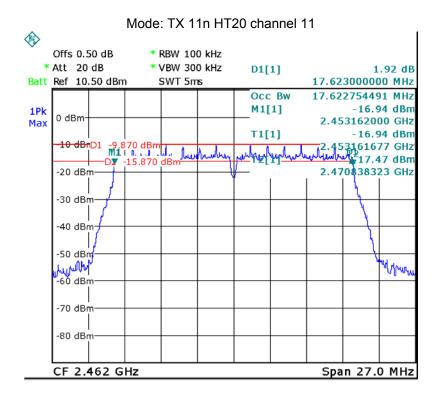


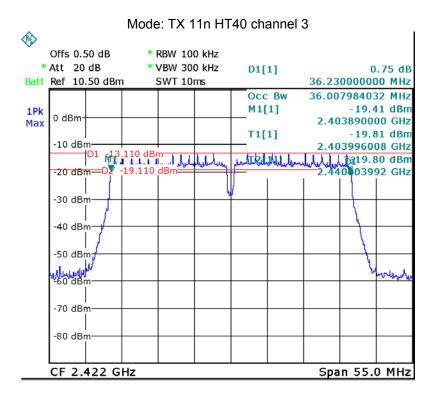


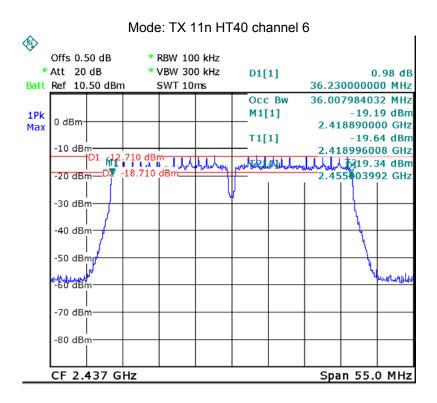


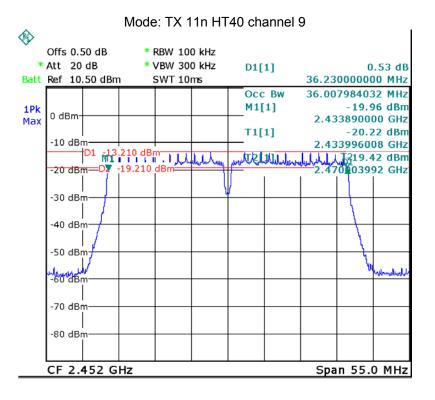


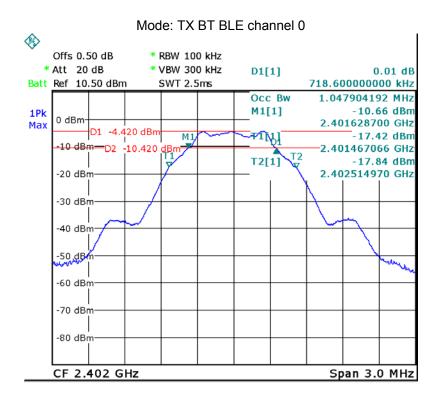


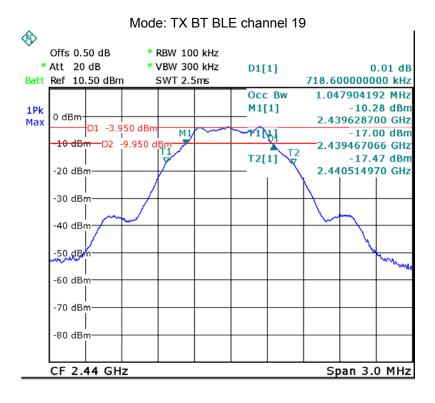


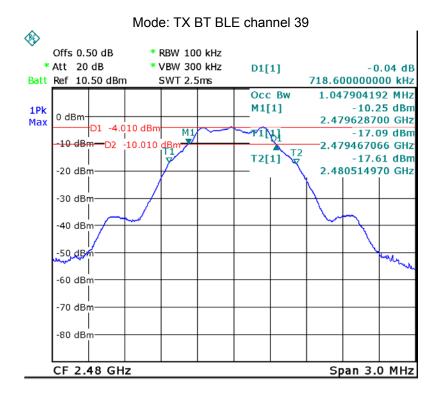












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## 12 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r04 January 7, 2016

#### 12.1 Test Procedure:

KDB 558074 D01 DTS Meas Guidance v03r04 January 7, 2016

section 9.1.1 (For BLE)

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- a)Set the RBW ≥ DTS bandwidth.
- b)Set VBW  $\geq 3$  RBW.
- c)Set span ≥ 3 x RBW
- d)Sweep time = auto couple.
- e)Detector = peak.
- f)Trace mode = max hold.
- g)Allow trace to fully stabilize.
- h)Use peak marker function to determine the peak amplitude level.

section 9.1.2 (For WIFI)

This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

- a)Set the RBW = 1 MHz.
- b)Set the VBW  $\geqslant$  3 RBW
- c)Set the span  $\geq$  1.5 x DTS bandwidth.
- d)Detector = peak.
- e)Sweep time = auto couple.
- f)Trace mode = max hold.
- g)Allow trace to fully stabilize.
- h)Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

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## 12.2 Test Result:

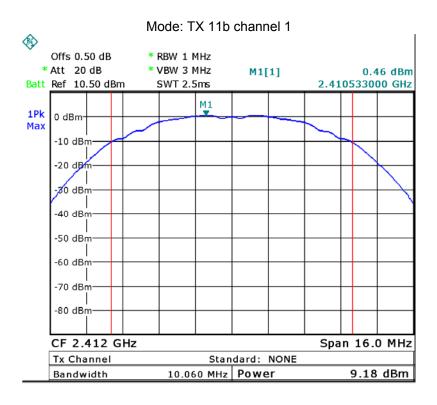
| Test mode :TX 11b               |  |  |
|---------------------------------|--|--|
| Maximum Peak Output Power (dBm) |  |  |
| 2412MHz 2437MHz 2462MHz         |  |  |
| 9.18 9.44 9.29                  |  |  |
| Limit: 1W/30dBm                 |  |  |

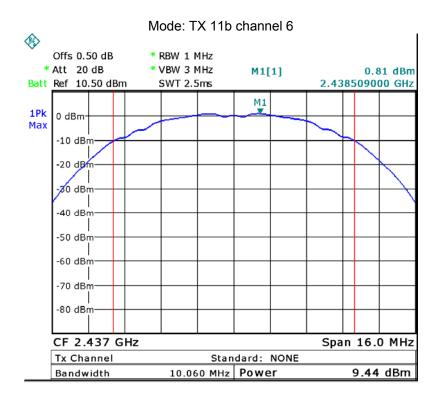
| Test mode :TX 11g               |  |  |
|---------------------------------|--|--|
| Maximum Peak Output Power (dBm) |  |  |
| 2412MHz 2437MHz 2462MHz         |  |  |
| 9.39 9.44 9.62                  |  |  |
| Limit: 1W/30dBm                 |  |  |

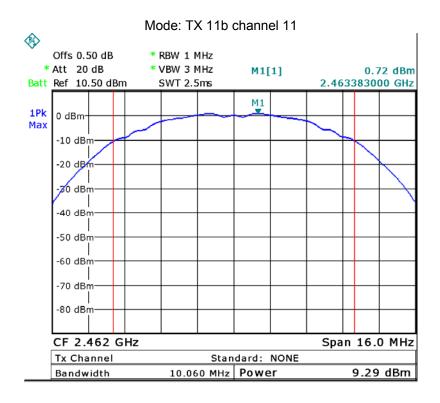
| Test mode :TX 11n HT20          |  |  |
|---------------------------------|--|--|
| Maximum Peak Output Power (dBm) |  |  |
| 2412MHz 2437MHz 2462MHz         |  |  |
| 9.24 9.40 9.19                  |  |  |
| Limit: 1W/30dBm                 |  |  |

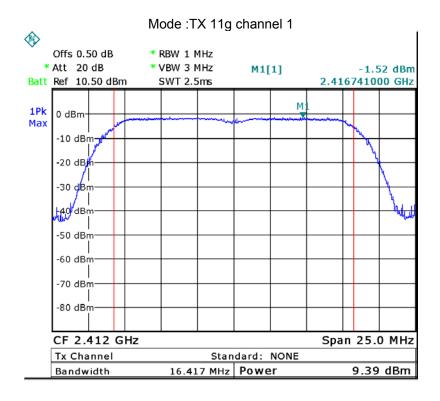
| Test mode :TX 11n HT40          |  |  |
|---------------------------------|--|--|
| Maximum Peak Output Power (dBm) |  |  |
| 2422MHz 2437MHz 2452MHz         |  |  |
| 9.57 9.58 9.23                  |  |  |
| Limit: 1W/30dBm                 |  |  |

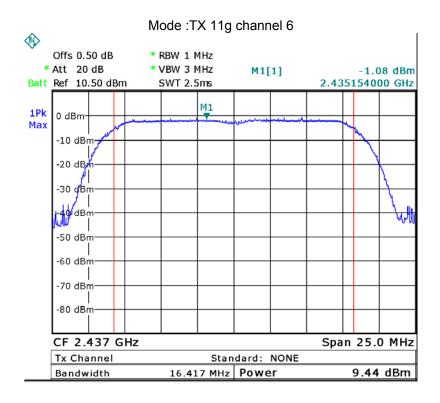
| Test mode : TX BT BLE           |  |  |
|---------------------------------|--|--|
| Maximum Peak Output Power (dBm) |  |  |
| 2402MHz 2440MHz 2480MHz         |  |  |
| -3.63 -3.21 -3.27               |  |  |
| Limit: 1W/30dBm                 |  |  |

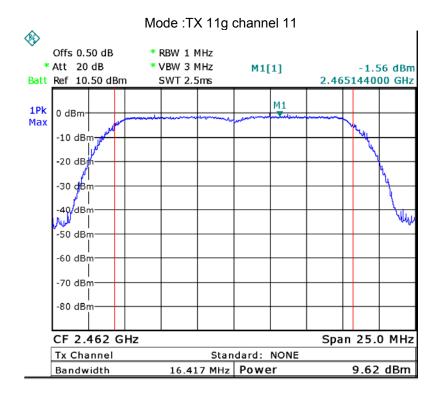


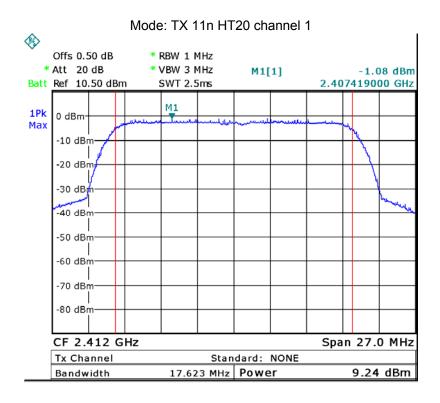


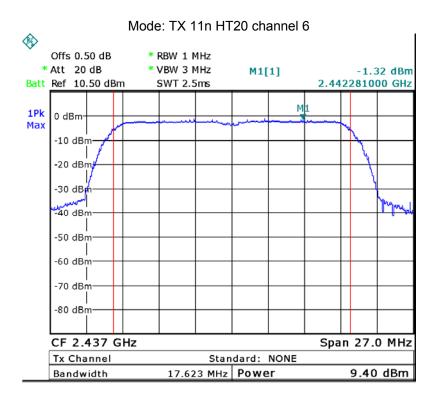


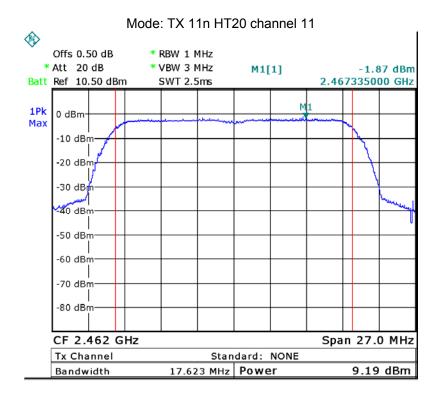


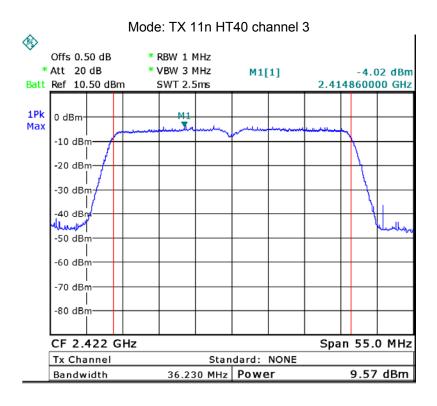


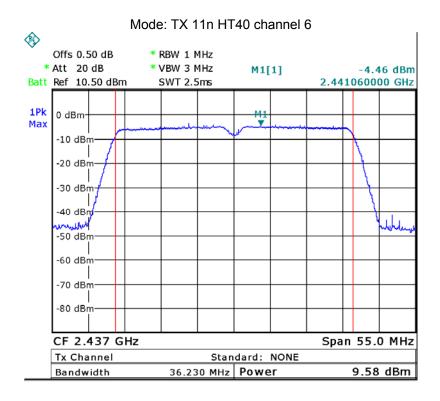


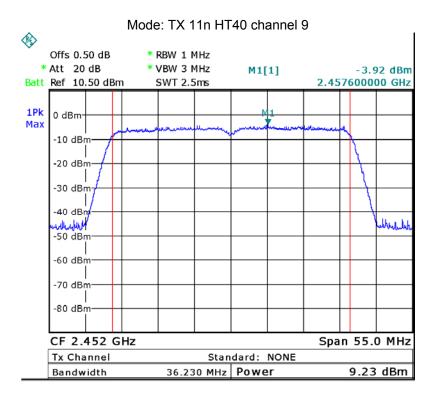


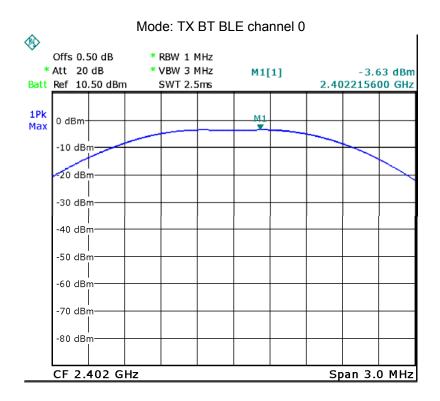


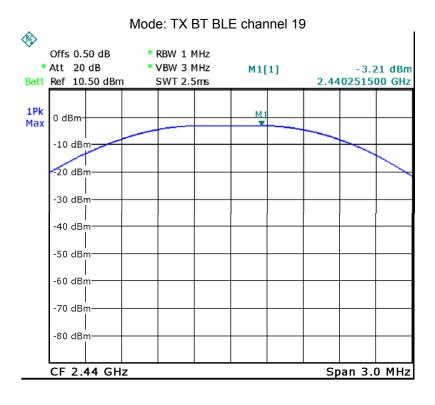


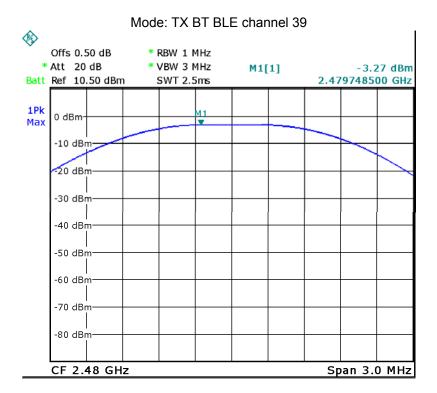












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## 13 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r04 January 7, 2016

#### 13.1 Test Procedure:

KDB 558074 D01 DTS Meas Guidance v03r04 January 7, 2016 section 10.2

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

#### 13.2 Test Result:

| Test mode :TX 11b             |  |  |
|-------------------------------|--|--|
| Power Spectral (dBm per 3kHz) |  |  |
| 2412MHz 2437MHz 2462MHz       |  |  |
| -14.90 -15.44 -16.27          |  |  |
| Limit: 8dBm per 3kHz          |  |  |

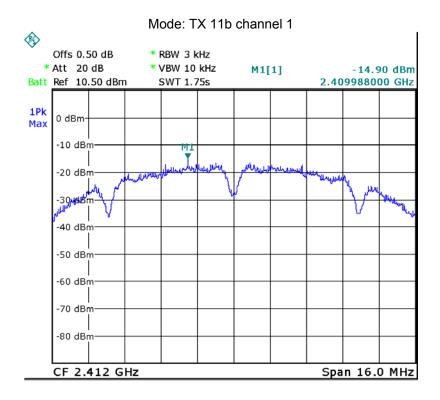
| Test mode :TX 11g             |  |  |
|-------------------------------|--|--|
| Power Spectral (dBm per 3kHz) |  |  |
| 2412MHz 2437MHz 2462MHz       |  |  |
| -23.79 -23.40 -24.71          |  |  |
| Limit: 8dBm per 3kHz          |  |  |

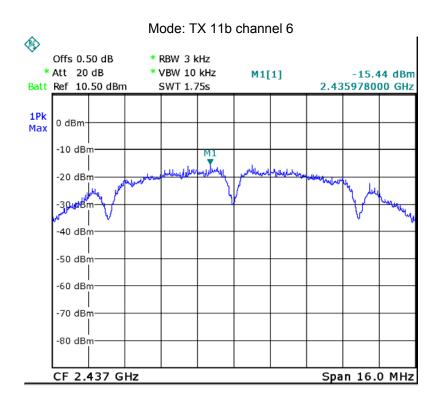
| Test mode :TX 11n HT20        |  |  |
|-------------------------------|--|--|
| Power Spectral (dBm per 3kHz) |  |  |
| 2412MHz 2437MHz 2462MHz       |  |  |
| -24.80 -22.77 -24.05          |  |  |
| Limit: 8dBm per 3kHz          |  |  |

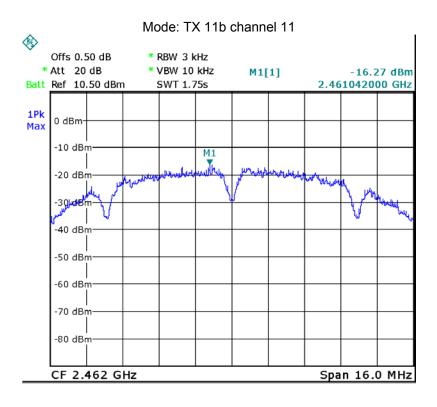
| Test mode :TX 11n HT40        |  |  |
|-------------------------------|--|--|
| Power Spectral (dBm per 3kHz) |  |  |
| 2422MHz 2437MHz 2452MHz       |  |  |
| -27.42 -27.06 -28.57          |  |  |
| Limit: 8dBm per 3kHz          |  |  |

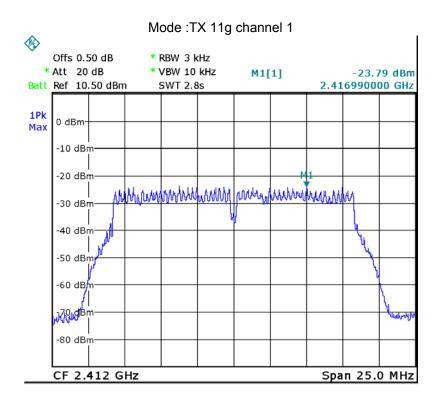
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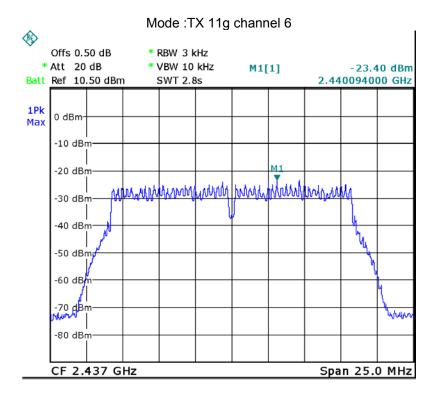
| Test mode : TX BT BLE         |  |  |
|-------------------------------|--|--|
| Power Spectral (dBm per 3kHz) |  |  |
| 2402MHz 2440MHz 2480MHz       |  |  |
| -19.54 -18.91 19.02           |  |  |
| Limit: 8dBm per 3kHz          |  |  |

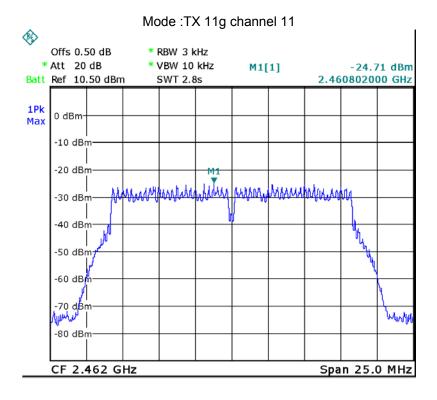


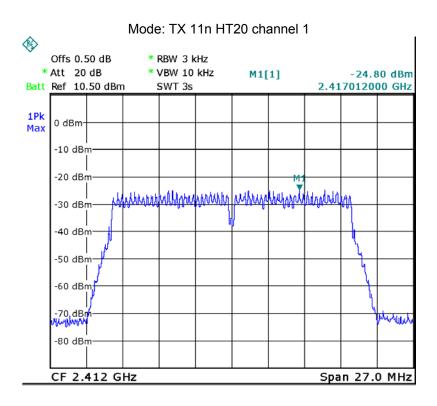


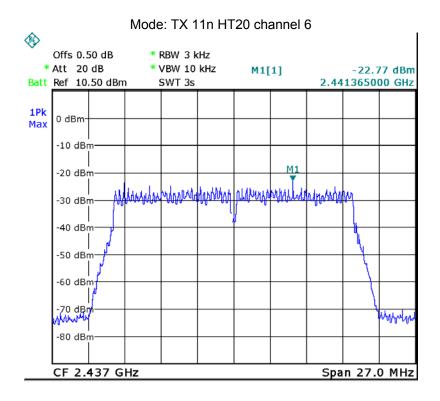


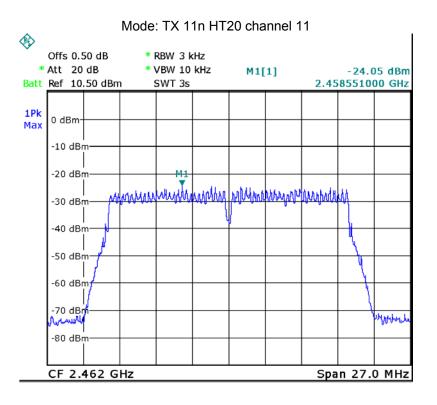


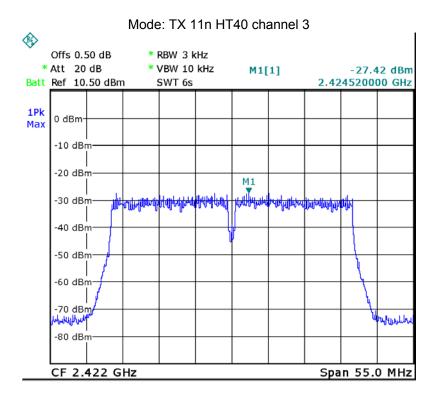


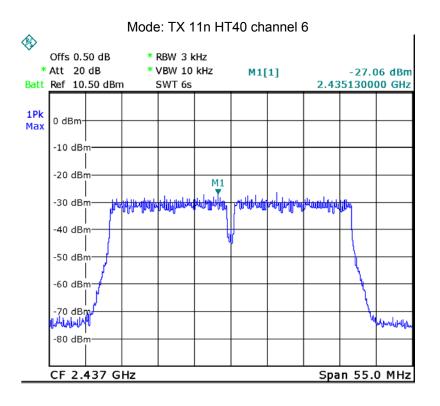


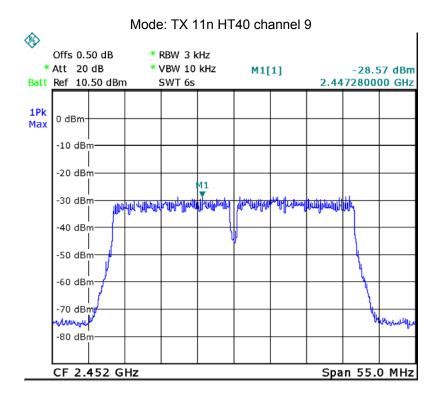


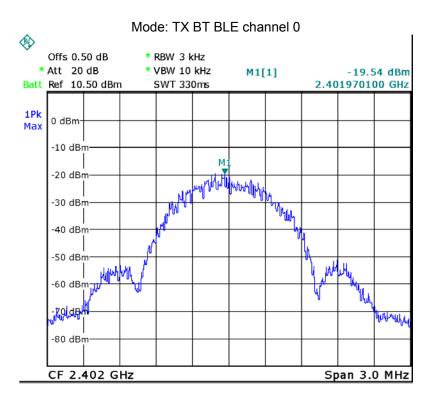


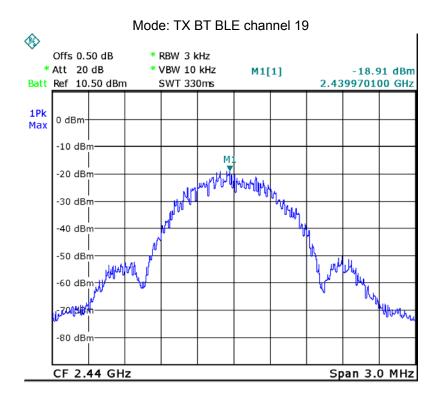


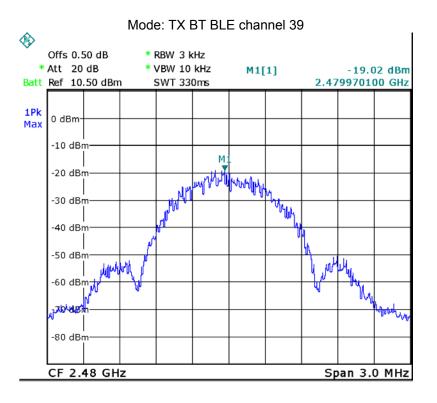












## 14 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has an integrated antenna fulfill the requirement of this section.

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# 15 RF Exposure

Remark: refer to SAR test report: WTS16S0550176E

=====End of Report=====