TEST REPORT

Reference No. : WTS17S0476389-2E V3

FCC ID : 2AE7RSTKLIFE8

Applicant.....: Santok Limited

Address...... Santok House, Unit L, Braintree Industrial Estate, Braintree Road,

South Ruislip, Middlesex, HA4 0EJ United Kingdom

Manufacturer: The same as above

Address : The same as above

Product Name.....: 4G Smart Phone

Model No. : LIFE 8, STK LIFE 8

Brand.....: STK

Standards.....: FCC CFR47 Part 15.247:2016

Date of Receipt sample : Apr. 13, 2017

Date of Test : Apr. 14 ~ May 05, 2017

Date of Issue.....: Jun. 06, 2017

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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Compiled by:

Ford Wang / Project Engineer

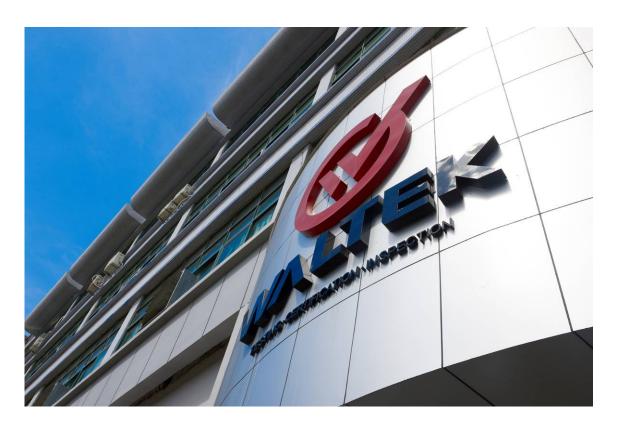
Philo Zhong / Manager

ved by:

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2 Laboratories Introduction

Waltek Services Test Group Ltd is a professional third-party testing and certification organization with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by CNAS (China National Accreditation Service for Conformity Assessment) AQSIQ, CMA and IECEE for CBTL. Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC(The Federal Communications Commission), CPSC(Consumer Product Safety Commission), CEC(California energy efficiency), IC(Industry Canada) and ELI(Efficient Lighting Initiative). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as UL, Intertek(ETL-SEMKO), CSA, TÜV Rheinland, TÜV SÜD, etc.



Waltek Services Test Group Ltd. is one of the largest and the most comprehensive third party testing organizations in China, our headquarter located in Shenzhen and have branches in Foshan, Dongguan, Zhongshan, Suzhou,Ningbo and Hong Kong, Our test capability covered four large fields: safety test. ElectroMagnetic Compatibility(EMC), reliablity and energy performance, Chemical test. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

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4 Revision History

| Test report No. | Date of Receipt sample | Date of Test | Date of Issue | Purpose | Comment | Approved |
|-------------------------|------------------------------|---------------------------|------------------|-----------|---------|----------|
| WTS17S0476389- 2E | Apr. 13, 2017 | Apr. 14 ~ May 05, 2017 | May 06, 2017 | original | - | Replaced |
| WTS17S0476389- 2E V1 | Apr. 13, 2017 | Apr. 14 ~ May 05, 2017 | May 27, 2017 | Version 1 | Updated | Replaced |
| WTS17S0476389- 2E V2 | Apr. 13, 2017 | Apr. 14 ~ May 05, 2017 | May 31, 2017 | Version 2 | Updated | Valid |
| WTS17S0476389- 2E V3 | Apr. 13, 2017 | Apr. 14 ~ May 05, 2017 | Jun. 06, 2017 | Version 3 | Updated | Replaced |

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5 General Information

5.1 General Description of E.U.T.

Product Name: 4G Smart Phone

Model No.: LIFE 8, STK LIFE 8

Model Description: Only the model names are different.

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

GPRS/EGPRS Class: 12

WCDMA Band(s): FDD Band II/IV/V

LTE Band(s): FDD Band 2/4/5/7/17

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: F5_V2.1

Software Version: STK_Life_8_DS_v0.0.1_20170314

Highest frequency

(Exclude Radio): 1.25GHz

Storage Location: Internal Storage

Note: N/A

5.2 Details of E.U.T.

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

PCS/GPRS/EDGE 1900: 1850~1910MHz

WCDMA Band II: 1850~1910MHz WCDMA Band V: 824~849MHz WCDMA Band IV:1710~1755MHz LTE Band 2: 1850~1910MHz LTE Band 4: 1710~1755MHz LTE Band 5: 824~849MHz LTE Band 7: 2500-2570MHz LTE Band 17: 704-716MHz

WiFi:

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

Max. RF output power: GSM 850: 32.85dBm

PCS1900: 29.90dBm

WCDMA Band II: 22.60dBm

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WCDMA Band V: 22.63dBm WCDMA Band IV: 22.37dBm

LTE Band 2: 22.89dBm LTE Band 4: 23.00dBm LTE Band 5: 23.81dBm LTE Band 7: 22.33dBm LTE Band 17: 23.53dBm WiFi(2.4G): 9.35dBm Bluetooth: 2.99dBm

Type of Modulation: GSM,GPRS: GMSK

EDGE: GMSK, 8PSK WCDMA: BPSK, 16QAM LTE: QPSK, 16QAM WiFi: CCK, OFDM

Bluetooth: GFSK, Pi/4 DQPSK, 8DPSK

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

WiFi/Bluetooth: internal permanent antenna

Antenna Gain: GSM 850: -0.8dBi

PCS1900: 0.2dBi

WCDMA Band II: 0.2dBi
WCDMA Band V: -0.8dBi
CDMA Band IV: 0.2dBi
LTE Band 2: 0.2dBi
LTE Band 4: 0.2dBi
LTE Band 5: -0.8dBi
LTE Band 7: 1.2dBi
LTE Band 17: -0.8dBi
WiFi(2.4G): 1.5dBi
Bluetooth: 1.5dBi

Technical Data: Battery DC 3.8V, 2100mAh

DC 5V, 1.0A, charging from adapter (Adapter Input: 100-240V~50/60Hz 0.2A)

Adapter: Manufacture: Shenzhen Diasinger Digital Co.,Ltd

Model No.: D12-501000F

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5.3 Channel List

WIFI

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

Remark:11n(HT40) channel: 3/4/5/6/7/8/9

BT BLE

| | DIDEL | | | | | | |
|-------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|
| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (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 Mode | Data Rate | Channel | TX/RX |
|--------------------------------|--------------|-----------|---------|-------|
| | 802.11b | 1 Mbps | 1/6/11 | TX |
| Maximum Book Output Bower | 802.11g | 6 Mbps | 1/6/11 | TX |
| Maximum Peak Output Power | 802.11n HT20 | MCS0 | 1/6/11 | TX |
| | 802.11n HT40 | MCS0 | 3/6/9 | TX |
| | 802.11b | 1 Mbps | 1/6/11 | TX |
| Davier Or a strat Davisite. | 802.11g | 6 Mbps | 1/6/11 | TX |
| Power Spectral Density | 802.11n HT20 | MCS0 | 1/6/11 | TX |
| | 802.11n HT40 | MCS0 | 3/6/9 | TX |
| | 802.11b | 1 Mbps | 1/6/11 | TX |
| CdD Donadwidth | 802.11g | 6 Mbps | 1/6/11 | TX |
| 6dB Bandwidth | 802.11n HT20 | MCS0 | 1/6/11 | TX |
| | 802.11n HT40 | MCS0 | 3/6/9 | TX |
| | 802.11b | 1 Mbps | 1/6/11 | TX |
| Dand Edge | 802.11g | 6 Mbps | 1/6/11 | TX |
| Band Edge | 802.11n HT20 | MCS0 | 1/6/11 | TX |
| | 802.11n HT40 | MCS0 | 3/6/9 | TX |
| | 802.11b | 1 Mbps | 1/6/11 | TX |
| Transmittor Spurious Emissions | 802.11g | 6 Mbps | 1/6/11 | TX |
| Transmitter Spurious Emissions | 802.11n HT20 | MCS0 | 1/6/11 | TX |
| | 802.11n HT40 | MCS0 | 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 .

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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. 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 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 | PASS |
| Maximum Permissible Exposure | 1.1307(b)(1) | PASS |
| (Exposure of Humans to RF Fields) | (-)(-) | |

7 Equipment Used during Test

7.1 Equipments List

| Condu | cted Emissions Test \$ | Site 1# | | | | |
|--------|-------------------------------|----------------------------------|-----------------|---------------------|-----------------------------|-------------------------|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date |
| 1. | EMI Test Receiver | R&S | ESCI | 100947 | Sep.12,2016 | Sep.11,2017 |
| 2. | LISN | R&S | ENV216 | 101215 | Sep.12,2016 | Sep.11,2017 |
| 3. | Cable | Тор | TYPE16(3.5M) | - | Sep.12,2016 | Sep.11,2017 |
| Condu | cted Emissions Test | Site 2# | | | | |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date |
| 1. | EMI Test Receiver | R&S | ESCI | 101155 | Sep.12,2016 | Sep.11,2017 |
| 2. | LISN | SCHWARZBECK | NSLK 8128 | 8128-289 | Sep.12,2016 | Sep.11,2017 |
| 3. | Limiter | York | MTS-IMP-136 | 261115-001- 0024 | Sep.12,2016 | Sep.11,2017 |
| 4. | Cable | LARGE | RF300 | - | Sep.12,2016 | Sep.11,2017 |
| 3m Ser | mi-anechoic Chamber | for Radiation Emis | sions Test site | 1# | | |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date |
| 1 | Spectrum Analyzer | R&S | FSP | 100091 | Apr.29, 2017 | Apr.28, 2018 |
| 2 | Active Loop Antenna | Beijing Dazhi | ZN30900A | - | Apr.09,2017 | Apr.08,2018 |
| 3 | Trilog Broadband Antenna | SCHWARZBECK | VULB9163 | 336 | Apr.09,2017 | Apr.08,2018 |
| 4 | Coaxial Cable (below 1GHz) | Тор | TYPE16(13M) | - | Sep.12,2016 | Sep.11,2017 |
| 5 | Broad-band Horn Antenna | SCHWARZBECK | BBHA 9120 D | 667 | Apr.09,2017 | Apr.08,2018 |
| 6 | Broad-band Horn Antenna | SCHWARZBECK | BBHA 9170 | 335 | Apr.09,2017 | Apr.08,2018 |
| 7 | Broadband Preamplifier | COMPLIANCE DIRECTION | PAP-1G18 | 2004 | Apr.13,2017 | Apr.12,2018 |
| 8 | Coaxial Cable (above 1GHz) | Тор | 1GHz-25GHz | EW02014-7 | Apr.13,2017 | Apr.12,2018 |
| 3m Ser | mi-anechoic Chamber | for Radiation Emis | sions Test site | 2# | | |
| Item | Equipment | Manufacturer | Model No. | Serial No | Last Calibration Date | Calibration Due Date |
| 1 | Test Receiver | R&S | ESCI | 101296 | Apr.13,2017 | Apr.12,2018 |
| 2 | Trilog Broadband Antenna | SCHWARZBECK | VULB9160 | 9160-3325 | Apr.09,2017 | Apr.08,2018 |
| 3 | Amplifier | Compliance pirection systems inc | PAP-0203 | 22024 | Apr.13,2017 | Apr.12,2018 |
| 4 | Cable | HUBER+SUHNER | CBL2 | 525178 | Apr.13,2017 | Apr.12,2018 |

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http://www.waltek.com.cn

| RF Cor | RF Conducted Testing | | | | | | | |
|--------|---------------------------------|--------------|-----------|------------|-----------------------------|-------------------------|--|--|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date | | |
| 1. | EMC Analyzer (9k~26.5GHz) | Agilent | E7405A | MY45114943 | Sep.12,2016 | Sep.11,2017 | | |
| 2. | Spectrum Analyzer (9k-6GHz) | R&S | FSL6 | 100959 | Sep.12,2016 | Sep.11,2017 | | |
| 3. | Signal Analyzer (9k~26.5GHz) | Agilent | N9010A | MY50520207 | Sep.12,2016 | Sep.11,2017 | | |

7.2 Description of Support Units

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

7.3 Measurement Uncertainty

| Parameter | Uncertainty | | | |
|---|---|--|--|--|
| Radio Frequency | ± 1 x 10 ⁻⁶ | | | |
| RF Power | ± 1.0 dB | | | |
| RF Power Density | ± 2.2 dB | | | |
| Radiated Spurious Emissions test | ± 5.03 dB (Bilog antenna 30M~1000MHz) | | | |
| Radiated Spurious Emissions test | ± 5.47 dB (Horn antenna 1000M~25000MHz) | | | |
| Conducted Emissions test | ± 3.64 dB (AC mains 150KHz~30MHz) | | | |
| | ± 3.12 dB (9kHz~30MHz) | | | |
| Conducted Spurious Emissions test | ± 4.21 dB (30M~1000MHz) | | | |
| | ± 5.14 dB (1000M~26500MHz) | | | |
| Confidence interval: 95%. Confidence factor:k=2 | | | | |

7.4 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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8 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.10:2013

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

Limit: Frequency (MHz) Limit (dBμV)
Quasi-peak Average

| r requericy (Wir 12) | Quasi-peak | Average |
|----------------------|------------|-----------|
| 0.15 to 0.5 | 66 to 56* | 56 to 46* |
| 0.5 to 5 | 56 | 60 |
| 5 to 30 | 60 | 50 |

8.1 E.U.T. Operation

Operating Environment:

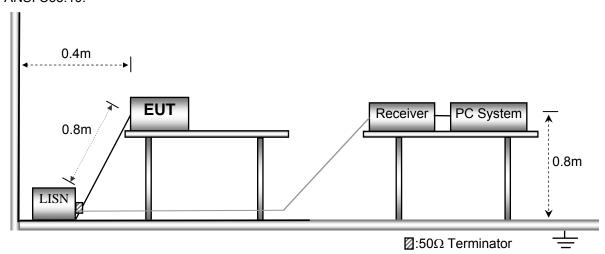
Temperature: 21.5 °C
Humidity: 51.9 % RH
Atmospheric Pressure: 101.2kPa

EUT Operation:

The test was performed in TX transmitting mode, the worst data were shown in the report.

8.2 EUT Setup

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



8.3 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.

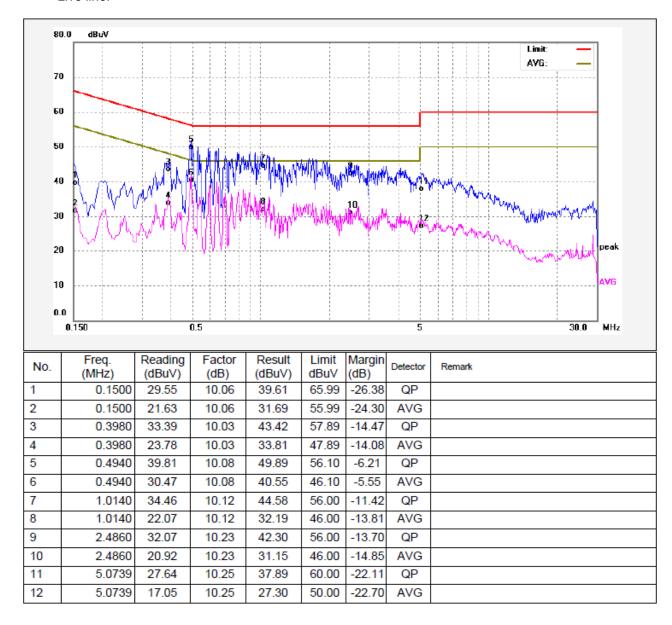
Reference No.: WTS17S0476389-2E V3 Page 15 of 94

8.4 Conducted Emission Test Result

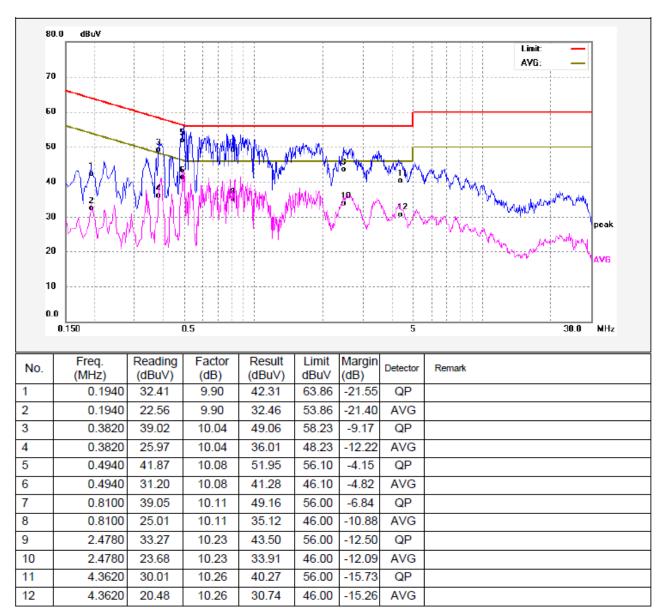
An initial pre-scan was performed on the live and neutral lines.

Worst Mode: WIFI mode (b mode low channel)

Live line:



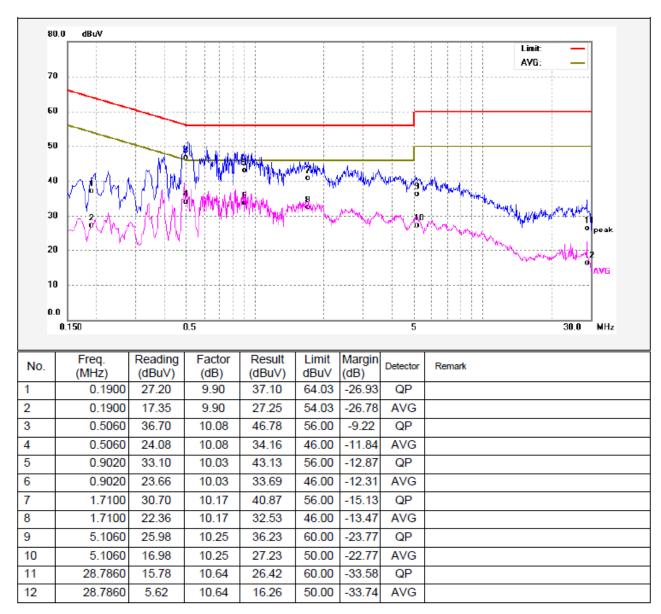
Neutral line:



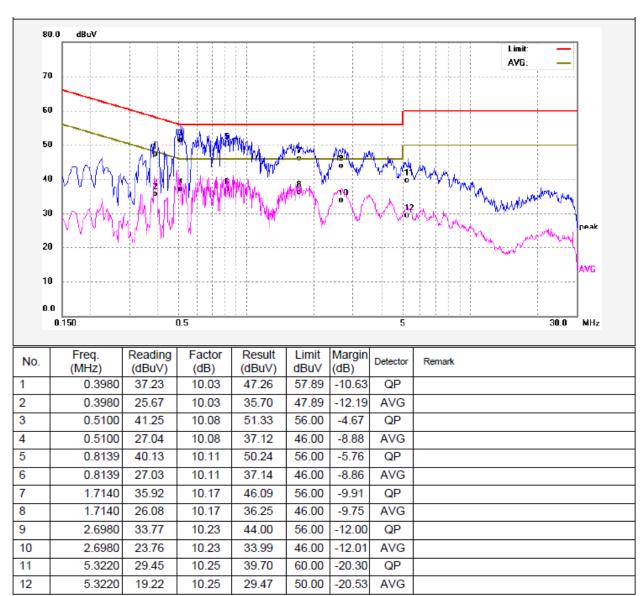
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Worst Mode: BLE mode (low channel)

Live line:



Neutral line:



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9 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.10:2013

Test Result: PASS
Measurement Distance: 3m

Limit:

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

9.1 EUT Operation

Operating Environment:

Temperature: $23.5 \, ^{\circ}\text{C}$ Humidity: $52.1 \, \% \, \text{RH}$

Atmospheric Pressure: 101.2kPa

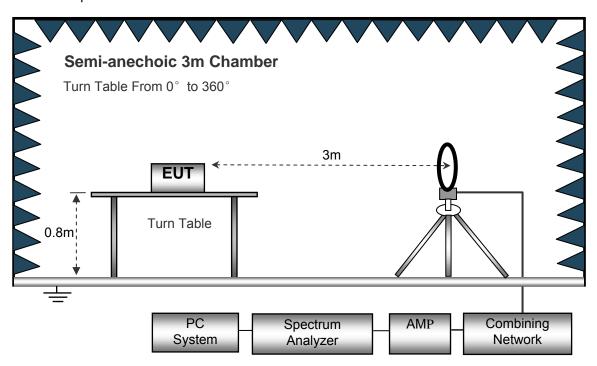
EUT Operation:

The test was performed in TX transmitting mode, the test data were shown in the report.

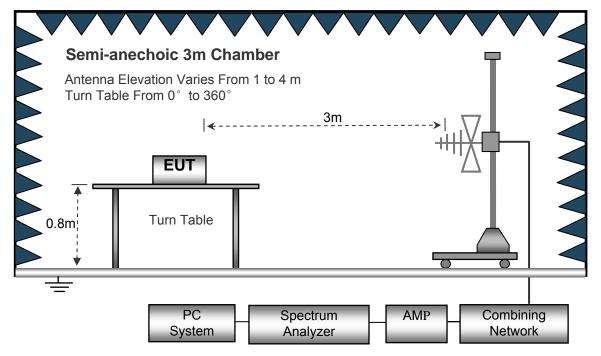
9.2 Test Setup

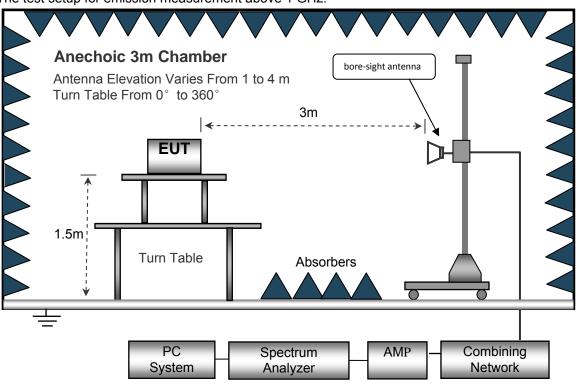
The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

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.

9.3 Spectrum Analyzer Setup

| Below 30MHz | | |
|-------------|----------------------|--------|
| | Sweep Speed | Auto |
| | IF Bandwidth | 10kHz |
| | Video Bandwidth | 10kHz |
| | Resolution Bandwidth | 10kHz |
| 30MHz ~ 1GH | 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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9.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.

3. 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 Z axis,so the worst data were shown as follow.

8. A 2.4GHz high -pass filter is used druing radiated emissions above 1GHz measurement.

9.5 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

9.6 Summary of Test Results

Wifi:

Test Frequency: 9KHz~30MHz

| Frequency | Measurement results dBµV @3m | Detector PK/QP | Correct factor dB/m | Extrapolatio n factor dB | Measurement results (calculated) dBµV/m @30m | Limits dBµV/m @30m | Margin dB |
|-----------|------------------------------------|-------------------|---------------------------|--------------------------------|--|--------------------|--------------|
| (MHz) | Measurement results | Detector | Correct factor | Extrapolatio n factor | Measurement results (calculated) | Limits | Margin |
| | | 80 | 2.11b (low c | channel 2412) | | | |
| 6.032 | 25.01 | QP | 21.84 | 40.00 | 6.85 | 29.54 | -22.69 |
| 8.051 | 24.56 | QP | 21.02 | 40.00 | 5.58 | 29.54 | -23.96 |
| 26.215 | 24.35 | QP | 20.55 | 40.00 | 4.90 | 29.54 | -24.64 |
| | | 802 | .11b (middle | channel 2437) | | | |
| 6.021 | 25.34 | QP | 21.84 | 40.00 | 7.18 | 29.54 | -22.36 |
| 8.304 | 26.13 | QP | 21.02 | 40.00 | 7.15 | 29.54 | -22.39 |
| 26.127 | 24.02 | QP | 20.55 | 40.00 | 4.57 | 29.54 | -24.97 |
| | | 80% | 2.11b (high | channel 2462) | | | |
| 6.022 | 25.34 | QP | 21.84 | 40.00 | 7.18 | 29.54 | -22.36 |
| 8.303 | 26.13 | QP | 21.02 | 40.00 | 7.15 | 29.54 | -22.39 |
| 26.126 | 24.02 | QP | 20.55 | 40.00 | 4.57 | 29.54 | -24.97 |
| | | 80: | 2.11g (low (| channel 2412) | , | | |
| 6.032 | 24.53 | QP | 21.84 | 40.00 | 6.37 | 29.54 | -23.17 |
| 8.051 | 24.71 | QP | 21.02 | 40.00 | 5.73 | 29.54 | -23.81 |
| 26.215 | 25.06 | QP | 20.55 | 40.00 | 5.61 | 29.54 | -23.93 |
| | | 802. | 11g (middle | e channel 2437) |) | 1 | |
| 6.026 | 25.33 | QP | 21.84 | 40.00 | 7.17 | 29.54 | -22.37 |
| 8.311 | 26.15 | QP | 21.02 | 40.00 | 7.17 | 29.54 | -22.37 |
| 26.131 | 24.07 | QP | 20.55 | 40.00 | 4.62 | 29.54 | -24.92 |
| | | 802 | 2.11g (high | channel 2462) | | | |
| 6.020 | 25.35 | QP | 21.84 | 40.00 | 7.19 | 29.54 | -22.35 |
| 8.332 | 26.12 | QP | 21.02 | 40.00 | 7.14 | 29.54 | -22.40 |
| 26.131 | 24.08 | QP | 20.55 | 40.00 | 4.63 | 29.54 | -24.91 |

| | | 802.1 | I1n(HT20 lov | w channel 2412 |) | | |
|--------|-------|--------|--------------|-----------------|------|-------|--------|
| 6.032 | 25.17 | QP | 21.84 | 40.00 | 7.01 | 29.54 | -22.53 |
| 8.051 | 25.03 | QP | 21.02 | 40.00 | 6.05 | 29.54 | -23.49 |
| 26.215 | 24.42 | QP | 20.55 | 40.00 | 4.97 | 29.54 | -24.57 |
| | | 802.11 | n(HT20 mid | dle channel 243 | 37) | 1 | |
| 6.037 | 25.36 | QP | 21.84 | 40.00 | 7.20 | 29.54 | -22.34 |
| 8.341 | 26.17 | QP | 21.02 | 40.00 | 7.19 | 29.54 | -22.35 |
| 26.141 | 24.21 | QP | 20.55 | 40.00 | 4.76 | 29.54 | -24.78 |
| | | 802.1 | 1n(HT20 hig | h channel 2462 | 2) | 1 | |
| 6.037 | 25.38 | QP | 21.84 | 40.00 | 7.22 | 29.54 | -22.32 |
| 8.341 | 26.23 | QP | 21.02 | 40.00 | 7.25 | 29.54 | -22.29 |
| 26.141 | 24.45 | QP | 20.55 | 40.00 | 5.00 | 29.54 | -24.54 |
| | | 802.1 | 11n(HT40 lov | w channel 2412 |) | | |
| 6.032 | 25.11 | QP | 21.84 | 40.00 | 6.95 | 29.54 | -22.59 |
| 8.051 | 25.23 | QP | 21.02 | 40.00 | 6.25 | 29.54 | -23.29 |
| 26.215 | 24.57 | QP | 20.55 | 40.00 | 5.12 | 29.54 | -24.42 |
| | | 802.11 | n(HT40 mid | dle channel 243 | 37) | | |
| 6.052 | 25.45 | QP | 21.84 | 40.00 | 7.29 | 29.54 | -22.25 |
| 8.342 | 26.78 | QP | 21.02 | 40.00 | 7.80 | 29.54 | -21.74 |
| 26.121 | 24.89 | QP | 20.55 | 40.00 | 5.44 | 29.54 | -24.10 |
| | | 802.1 | 1n(HT40 hig | h channel 2452 | 2) | T | |
| 6.052 | 25.12 | QP | 21.84 | 40.00 | 6.96 | 29.54 | -22.58 |
| 8.342 | 26.73 | QP | 21.02 | 40.00 | 7.75 | 29.54 | -21.79 |
| 26.121 | 24.21 | QP | 20.55 | 40.00 | 4.76 | 29.54 | -24.78 |

Reference No.: WTS17S0476389-2E V3 Page 25 of 94

Test Frequency : 30MHz ~ 18GHz

| Francis | Receiver | Detector | Turn | RX An | tenna | Corrected | Corrected | FCC F 15.247/2 | |
|--------------------------|----------|-------------|----------------|--------|-------|-----------|------------------------|-------------------|--------|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| 11b: Low Channel 2412MHz | | | | | | | | | |
| 225.36 | 42.05 | QP | 232.56 | 1.63 | Н | 11.62 | 30.43 | 46.00 | -15.57 |
| 225.36 | 36.24 | QP | 147.64 | 1.09 | V | 11.62 | 24.62 | 46.00 | -21.38 |
| 4824.00 | 50.22 | PK | 62.27 | 1.63 | V | 1.06 | 49.16 | 74.00 | -24.84 |
| 4824.00 | 46.37 | Ave | 62.27 | 1.63 | V | 1.06 | 45.31 | 54.00 | -8.69 |
| 7236.00 | 42.67 | PK | 200.60 | 1.79 | Н | 1.33 | 44.00 | 74.00 | -30.00 |
| 7236.00 | 40.61 | Ave | 200.60 | 1.79 | Н | 1.33 | 41.94 | 54.00 | -12.06 |
| 2333.87 | 46.56 | PK | 95.99 | 1.75 | V | 13.19 | 33.37 | 74.00 | -40.63 |
| 2333.87 | 39.52 | Ave | 95.99 | 1.75 | V | 13.19 | 26.33 | 54.00 | -27.67 |
| 2379.66 | 42.10 | PK | 302.34 | 1.82 | Н | 13.14 | 28.96 | 74.00 | -45.04 |
| 2379.66 | 36.04 | Ave | 302.34 | 1.82 | Н | 13.14 | 22.90 | 54.00 | -31.10 |
| 2488.74 | 44.74 | PK | 156.79 | 1.78 | V | 13.08 | 31.66 | 74.00 | -42.34 |
| 2488.74 | 36.71 | Ave | 156.79 | 1.78 | V | 13.08 | 23.63 | 54.00 | -30.37 |

Reference No.: WTS17S0476389-2E V3 Page 26 of 94

| F | Receiver | Datastan | Turn | RX An | tenna | Corrected | Compated | FCC Part 15.247/209/205 | |
|-----------|----------|-------------|----------------|-----------|----------------|-----------|------------------------|----------------------------|--------|
| Frequency | Reading | Detector | table Angle | Height | t Polar Factor | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | | 11b: Mide | dle Chani | nel 2437 | 7MHz | | | |
| 225.36 | 42.08 | QP | 210.89 | 1.37 | Н | 11.62 | 30.46 | 46.00 | -15.54 |
| 225.36 | 35.92 | QP | 16.31 | 1.28 | V | 11.62 | 24.30 | 46.00 | -21.70 |
| 4874.00 | 49.97 | PK | 351.64 | 1.68 | V | 0.62 | 49.35 | 74.00 | -24.65 |
| 4874.00 | 47.64 | Ave | 351.64 | 1.68 | V | 0.62 | 47.02 | 54.00 | -6.98 |
| 7311.00 | 41.71 | PK | 65.16 | 1.61 | Н | 2.21 | 43.92 | 74.00 | -30.08 |
| 7311.00 | 41.10 | Ave | 65.16 | 1.61 | Н | 2.21 | 43.31 | 54.00 | -10.69 |
| 2321.16 | 45.93 | PK | 324.93 | 1.44 | V | 13.19 | 32.74 | 74.00 | -41.26 |
| 2321.16 | 37.95 | Ave | 324.93 | 1.44 | V | 13.19 | 24.76 | 54.00 | -29.24 |
| 2353.79 | 43.14 | PK | 182.15 | 1.30 | Н | 13.14 | 30.00 | 74.00 | -44.00 |
| 2353.79 | 38.54 | Ave | 182.15 | 1.30 | Н | 13.14 | 25.40 | 54.00 | -28.60 |
| 2488.73 | 44.35 | PK | 294.27 | 1.31 | V | 13.08 | 31.27 | 74.00 | -42.73 |
| 2488.73 | 36.35 | Ave | 294.27 | 1.31 | V | 13.08 | 23.27 | 54.00 | -30.73 |

Reference No.: WTS17S0476389-2E V3 Page 27 of 94

| Fragueray | Receiver | Detector | Turn | RX An | tenna | Corrected | Carrantad | FCC F 15.247/2 | |
|-----------|----------|-------------|----------------|----------|----------|-----------|------------------------|-------------------|--------|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | | 11b: Hig | ıh Chann | el 2462I | MHz | | | |
| 225.36 | 41.09 | QP | 112.03 | 1.12 | Н | 11.62 | 29.47 | 46.00 | -16.53 |
| 225.36 | 34.57 | QP | 102.43 | 1.95 | V | 11.62 | 22.95 | 46.00 | -23.05 |
| 4924.00 | 48.84 | PK | 46.45 | 1.75 | V | 0.24 | 48.60 | 74.00 | -25.40 |
| 4924.00 | 47.49 | Ave | 46.45 | 1.75 | V | 0.24 | 47.25 | 54.00 | -6.75 |
| 7386.00 | 42.87 | PK | 291.00 | 1.69 | Н | 2.84 | 45.71 | 74.00 | -28.29 |
| 7386.00 | 40.22 | Ave | 291.00 | 1.69 | Н | 2.84 | 43.06 | 54.00 | -10.94 |
| 2333.28 | 46.47 | PK | 282.50 | 1.43 | V | 13.19 | 33.28 | 74.00 | -40.72 |
| 2333.28 | 39.96 | Ave | 282.50 | 1.43 | V | 13.19 | 26.77 | 54.00 | -27.23 |
| 2382.44 | 42.56 | PK | 190.71 | 1.90 | Н | 13.14 | 29.42 | 74.00 | -44.58 |
| 2382.44 | 37.52 | Ave | 190.71 | 1.90 | Н | 13.14 | 24.38 | 54.00 | -29.62 |
| 2491.46 | 42.89 | PK | 187.09 | 1.46 | V | 13.08 | 29.81 | 74.00 | -44.19 |
| 2491.46 | 38.40 | Ave | 187.09 | 1.46 | V | 13.08 | 25.32 | 54.00 | -28.68 |

Reference No.: WTS17S0476389-2E V3 Page 28 of 94

| | Receiver | Detector | Turn | RX An | tenna | Corrected | Corrected | FCC F 15.247/20 | |
|--------------------------|----------|-------------|----------------|--------|-------|-----------|------------------------|--------------------|--------|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| 11g: Low Channel 2412MHz | | | | | | | | | |
| 225.36 | 40.72 | QP | 252.81 | 1.32 | Н | 11.62 | 29.10 | 46.00 | -16.90 |
| 225.36 | 33.84 | QP | 86.61 | 1.46 | V | 11.62 | 22.22 | 46.00 | -23.78 |
| 4824.00 | 48.63 | PK | 109.34 | 1.62 | V | 1.06 | 47.57 | 74.00 | -26.43 |
| 4824.00 | 46.00 | Ave | 109.34 | 1.62 | V | 1.06 | 44.94 | 54.00 | -9.06 |
| 7236.00 | 44.29 | PK | 222.12 | 1.53 | Н | 1.33 | 45.62 | 74.00 | -28.38 |
| 7236.00 | 39.10 | Ave | 222.12 | 1.53 | Н | 1.33 | 40.43 | 54.00 | -13.57 |
| 2342.94 | 45.65 | PK | 211.85 | 1.54 | V | 13.19 | 32.46 | 74.00 | -41.54 |
| 2342.94 | 37.59 | Ave | 211.85 | 1.54 | V | 13.19 | 24.40 | 54.00 | -29.60 |
| 2389.95 | 43.72 | PK | 310.59 | 1.35 | Н | 13.14 | 30.58 | 74.00 | -43.42 |
| 2389.95 | 36.34 | Ave | 310.59 | 1.35 | Н | 13.14 | 23.20 | 54.00 | -30.80 |
| 2499.11 | 43.44 | PK | 325.43 | 1.98 | V | 13.08 | 30.36 | 74.00 | -43.64 |
| 2499.11 | 38.68 | Ave | 325.43 | 1.98 | V | 13.08 | 25.60 | 54.00 | -28.40 |

Reference No.: WTS17S0476389-2E V3 Page 29 of 94

| Fraguency | Receiver | Detector | Turn | RX An | tenna | Corrected | Corrected | FCC F 15.247/2 | | |
|-----------|-----------------------------|-------------|----------------|--------|-------|-----------|------------------------|-------------------|--------|--|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin | |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| | 11g: Middle Channel 2437MHz | | | | | | | | | |
| 225.36 | 41.94 | QP | 27.60 | 2.00 | Н | 11.62 | 30.32 | 46.00 | -15.68 | |
| 225.36 | 34.76 | QP | 250.04 | 1.60 | V | 11.62 | 23.14 | 46.00 | -22.86 | |
| 4874.00 | 49.49 | PK | 203.75 | 1.04 | V | 0.62 | 48.87 | 74.00 | -25.13 | |
| 4874.00 | 46.44 | Ave | 203.75 | 1.04 | V | 0.62 | 45.82 | 54.00 | -8.18 | |
| 7311.00 | 43.49 | PK | 267.70 | 1.86 | Н | 2.21 | 45.70 | 74.00 | -28.30 | |
| 7311.00 | 38.56 | Ave | 267.70 | 1.86 | Н | 2.21 | 40.77 | 54.00 | -13.23 | |
| 2332.02 | 45.39 | PK | 53.46 | 1.13 | V | 13.19 | 32.20 | 74.00 | -41.80 | |
| 2332.02 | 37.46 | Ave | 53.46 | 1.13 | V | 13.19 | 24.27 | 54.00 | -29.73 | |
| 2361.65 | 44.13 | PK | 71.05 | 1.42 | Н | 13.14 | 30.99 | 74.00 | -43.01 | |
| 2361.65 | 36.29 | Ave | 71.05 | 1.42 | Н | 13.14 | 23.15 | 54.00 | -30.85 | |
| 2495.74 | 42.38 | PK | 126.95 | 1.42 | V | 13.08 | 29.30 | 74.00 | -44.70 | |
| 2495.74 | 36.43 | Ave | 126.95 | 1.42 | V | 13.08 | 23.35 | 54.00 | -30.65 | |

Reference No.: WTS17S0476389-2E V3 Page 30 of 94

| Fragueray | Receiver | Detector | Turn | RX An | tenna | Corrected | Corrected | FCC F 15.247/2 | |
|-----------|----------|-------------|----------------|---------|----------|-----------|------------------------|-------------------|--------|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | | 11g: Hig | h Chann | el 2462I | MHz | | | |
| 225.36 | 41.49 | QP | 89.29 | 1.38 | Н | 11.62 | 29.87 | 46.00 | -16.13 |
| 225.36 | 35.66 | QP | 275.82 | 1.75 | V | 11.62 | 24.04 | 46.00 | -21.96 |
| 4924.00 | 50.87 | PK | 238.02 | 1.99 | V | 0.24 | 50.63 | 74.00 | -23.37 |
| 4924.00 | 46.59 | Ave | 238.02 | 1.99 | V | 0.24 | 46.35 | 54.00 | -7.65 |
| 7386.00 | 43.67 | PK | 99.56 | 1.05 | Н | 2.84 | 46.51 | 74.00 | -27.49 |
| 7386.00 | 39.96 | Ave | 99.56 | 1.05 | Н | 2.84 | 42.80 | 54.00 | -11.20 |
| 2343.84 | 45.25 | PK | 264.84 | 1.10 | V | 13.19 | 32.06 | 74.00 | -41.94 |
| 2343.84 | 37.54 | Ave | 264.84 | 1.10 | V | 13.19 | 24.35 | 54.00 | -29.65 |
| 2356.23 | 44.12 | PK | 117.41 | 1.19 | Н | 13.14 | 30.98 | 74.00 | -43.02 |
| 2356.23 | 38.98 | Ave | 117.41 | 1.19 | Н | 13.14 | 25.84 | 54.00 | -28.16 |
| 2494.65 | 43.24 | PK | 38.82 | 1.73 | V | 13.08 | 30.16 | 74.00 | -43.84 |
| 2494.65 | 37.27 | Ave | 38.82 | 1.73 | V | 13.08 | 24.19 | 54.00 | -29.81 |

Reference No.: WTS17S0476389-2E V3 Page 31 of 94

| F | Receiver | Datastan | Turn | RX An | tenna | Corrected | 0 | FCC F 15.247/2 | |
|-----------|----------|-------------|----------------|----------|----------|-----------|------------------------|-------------------|--------|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | | 11n20: L | ow Chani | nel 2412 | 2MHz | | | |
| 225.36 | 42.27 | QP | 165.33 | 1.02 | Н | 11.62 | 30.65 | 46.00 | -15.35 |
| 225.36 | 36.59 | QP | 277.48 | 1.41 | V | 11.62 | 24.97 | 46.00 | -21.03 |
| 4824.00 | 50.74 | PK | 104.54 | 1.85 | V | 1.06 | 49.68 | 74.00 | -24.32 |
| 4824.00 | 46.26 | Ave | 104.54 | 1.85 | V | 1.06 | 45.20 | 54.00 | -8.80 |
| 7236.00 | 44.67 | PK | 113.13 | 1.27 | Н | 1.33 | 46.00 | 74.00 | -28.00 |
| 7236.00 | 38.64 | Ave | 113.13 | 1.27 | Н | 1.33 | 39.97 | 54.00 | -14.03 |
| 2345.90 | 45.69 | PK | 11.78 | 1.57 | V | 13.19 | 32.50 | 74.00 | -41.50 |
| 2345.90 | 39.97 | Ave | 11.78 | 1.57 | V | 13.19 | 26.78 | 54.00 | -27.22 |
| 2385.46 | 44.28 | PK | 40.49 | 1.10 | Н | 13.14 | 31.14 | 74.00 | -42.86 |
| 2385.46 | 37.20 | Ave | 40.49 | 1.10 | Н | 13.14 | 24.06 | 54.00 | -29.94 |
| 2493.09 | 43.32 | PK | 204.38 | 1.94 | V | 13.08 | 30.24 | 74.00 | -43.76 |
| 2493.09 | 38.43 | Ave | 204.38 | 1.94 | V | 13.08 | 25.35 | 54.00 | -28.65 |

Reference No.: WTS17S0476389-2E V3 Page 32 of 94

| Fraguency | Receiver | eceiver Detector table RX Antenna Corrected | Corrected | Carracted | FCC Part 15.247/209/205 | | | | |
|-----------|-------------------------------|---|-----------|-----------|----------------------------|--------|------------------------|----------|--------|
| Frequency | Reading | Detector | Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | 11n20: Middle Channel 2437MHz | | | | | | | | |
| 225.36 | 43.55 | QP | 282.33 | 1.06 | Н | 11.62 | 31.93 | 46.00 | -14.07 |
| 225.36 | 36.67 | QP | 85.78 | 1.16 | V | 11.62 | 25.05 | 46.00 | -20.95 |
| 4874.00 | 50.66 | PK | 111.62 | 1.42 | V | 0.62 | 50.04 | 74.00 | -23.96 |
| 4874.00 | 46.62 | Ave | 111.62 | 1.42 | V | 0.62 | 46.00 | 54.00 | -8.00 |
| 7311.00 | 43.38 | PK | 129.90 | 1.31 | Н | 2.21 | 45.59 | 74.00 | -28.41 |
| 7311.00 | 38.09 | Ave | 129.90 | 1.31 | Н | 2.21 | 40.30 | 54.00 | -13.70 |
| 2320.00 | 45.19 | PK | 224.77 | 1.30 | V | 13.19 | 32.00 | 74.00 | -42.00 |
| 2320.00 | 38.06 | Ave | 224.77 | 1.30 | V | 13.19 | 24.87 | 54.00 | -29.13 |
| 2389.10 | 42.48 | PK | 51.87 | 1.65 | Н | 13.14 | 29.34 | 74.00 | -44.66 |
| 2389.10 | 38.77 | Ave | 51.87 | 1.65 | Н | 13.14 | 25.63 | 54.00 | -28.37 |
| 2489.40 | 44.19 | PK | 344.47 | 1.67 | V | 13.08 | 31.11 | 74.00 | -42.89 |
| 2489.40 | 37.11 | Ave | 344.47 | 1.67 | V | 13.08 | 24.03 | 54.00 | -29.97 |

Reference No.: WTS17S0476389-2E V3 Page 33 of 94

| Fraguency | Receiver | Detector | Turn | RX An | tenna | Corrected | Compated | FCC Part 15.247/209/205 | |
|-----------|-----------------------------|-------------|----------------|--------|-------|-----------|------------------------|----------------------------|--------|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | 11n20: High Channel 2462MHz | | | | | | | | |
| 225.36 | 42.13 | QP | 177.54 | 1.28 | Н | 11.62 | 30.51 | 46.00 | -15.49 |
| 225.36 | 37.68 | QP | 194.20 | 1.20 | V | 11.62 | 26.06 | 46.00 | -19.94 |
| 4924.00 | 51.73 | PK | 47.90 | 1.26 | V | 0.24 | 51.49 | 74.00 | -22.51 |
| 4924.00 | 45.90 | Ave | 47.90 | 1.26 | V | 0.24 | 45.66 | 54.00 | -8.34 |
| 7386.00 | 42.16 | PK | 264.60 | 1.23 | Н | 2.84 | 45.00 | 74.00 | -29.00 |
| 7386.00 | 37.09 | Ave | 264.60 | 1.23 | Н | 2.84 | 39.93 | 54.00 | -14.07 |
| 2328.40 | 45.88 | PK | 57.22 | 1.54 | V | 13.19 | 32.69 | 74.00 | -41.31 |
| 2328.40 | 37.82 | Ave | 57.22 | 1.54 | V | 13.19 | 24.63 | 54.00 | -29.37 |
| 2353.56 | 44.48 | PK | 347.12 | 1.38 | Н | 13.14 | 31.34 | 74.00 | -42.66 |
| 2353.56 | 36.22 | Ave | 347.12 | 1.38 | Н | 13.14 | 23.08 | 54.00 | -30.92 |
| 2494.60 | 42.29 | PK | 117.92 | 1.60 | V | 13.08 | 29.21 | 74.00 | -44.79 |
| 2494.60 | 36.01 | Ave | 117.92 | 1.60 | V | 13.08 | 22.93 | 54.00 | -31.07 |

Reference No.: WTS17S0476389-2E V3 Page 34 of 94

| Fraguency | Receiver Reading | Detector | Turn table Angle | RX Antenna | | Corrected | 0 | FCC Part 15.247/209/205 | |
|-----------|----------------------------|-------------|------------------------|------------|-------|-----------|------------------------|----------------------------|--------|
| Frequency | | | | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | 11n40: Low Channel 2422MHz | | | | | | | | |
| 225.36 | 42.72 | QP | 147.34 | 1.54 | Н | 11.62 | 31.10 | 46.00 | -14.90 |
| 225.36 | 36.71 | QP | 122.77 | 1.54 | V | 11.62 | 25.09 | 46.00 | -20.91 |
| 4844.00 | 49.73 | PK | 147.39 | 1.64 | V | 1.06 | 48.67 | 74.00 | -25.33 |
| 4844.00 | 43.91 | Ave | 147.39 | 1.64 | V | 1.06 | 42.85 | 54.00 | -11.15 |
| 7266.00 | 39.23 | PK | 135.09 | 1.43 | Н | 1.33 | 40.56 | 74.00 | -33.44 |
| 7266.00 | 34.72 | Ave | 135.09 | 1.43 | Н | 1.33 | 36.05 | 54.00 | -17.95 |
| 2339.49 | 45.17 | PK | 164.64 | 1.75 | V | 13.19 | 31.98 | 74.00 | -42.02 |
| 2339.49 | 39.53 | Ave | 164.64 | 1.75 | V | 13.19 | 26.34 | 54.00 | -27.66 |
| 2361.21 | 42.34 | PK | 109.92 | 1.39 | Н | 13.14 | 29.20 | 74.00 | -44.80 |
| 2361.21 | 37.43 | Ave | 109.92 | 1.39 | Н | 13.14 | 24.29 | 54.00 | -29.71 |
| 2499.45 | 42.58 | PK | 273.29 | 1.53 | V | 13.08 | 29.50 | 74.00 | -44.50 |
| 2499.45 | 38.06 | Ave | 273.29 | 1.53 | V | 13.08 | 24.98 | 54.00 | -29.02 |

Reference No.: WTS17S0476389-2E V3 Page 35 of 94

| Fraguency | Receiver Reading | Detector | Turn table Angle | RX Antenna | | Corrected | Composted | FCC Part 15.247/209/205 | |
|-----------|-------------------------------|-------------|------------------------|------------|-------|-----------|------------------------|----------------------------|--------|
| Frequency | | | | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | 11n40: Middle Channel 2437MHz | | | | | | | | |
| 225.36 | 42.20 | QP | 20.96 | 1.73 | Н | 11.62 | 30.58 | 46.00 | -15.42 |
| 225.36 | 37.54 | QP | 318.90 | 1.08 | V | 11.62 | 25.92 | 46.00 | -20.08 |
| 4874.00 | 50.50 | PK | 172.05 | 1.53 | V | 0.62 | 49.88 | 74.00 | -24.12 |
| 4874.00 | 43.40 | Ave | 172.05 | 1.53 | V | 0.62 | 42.78 | 54.00 | -11.22 |
| 7311.00 | 39.11 | PK | 304.39 | 1.47 | Н | 2.21 | 41.32 | 74.00 | -32.68 |
| 7311.00 | 34.51 | Ave | 304.39 | 1.47 | Н | 2.21 | 36.72 | 54.00 | -17.28 |
| 2336.02 | 46.90 | PK | 262.91 | 1.25 | V | 13.19 | 33.71 | 74.00 | -40.29 |
| 2336.02 | 39.87 | Ave | 262.91 | 1.25 | V | 13.19 | 26.68 | 54.00 | -27.32 |
| 2353.19 | 44.67 | PK | 352.13 | 1.12 | Н | 13.14 | 31.53 | 74.00 | -42.47 |
| 2353.19 | 37.63 | Ave | 352.13 | 1.12 | Н | 13.14 | 24.49 | 54.00 | -29.51 |
| 2495.06 | 44.39 | PK | 125.77 | 1.95 | V | 13.08 | 31.31 | 74.00 | -42.69 |
| 2495.06 | 38.37 | Ave | 125.77 | 1.95 | V | 13.08 | 25.29 | 54.00 | -28.71 |

Reference No.: WTS17S0476389-2E V3 Page 36 of 94

| Fraguana | quency Receiver Reading D | Detector | Turn table Angle | RX Antenna | | Corrected | | FCC Part 15.247/209/205 | |
|-----------|-----------------------------|-------------|------------------------|------------|-------|-----------|------------------------|----------------------------|--------|
| Frequency | | Detector | | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | 11n40: High Channel 2452MHz | | | | | | | | |
| 225.36 | 41.95 | QP | 65.98 | 1.74 | Н | 11.62 | 30.33 | 46.00 | -15.67 |
| 225.36 | 36.69 | QP | 204.90 | 1.35 | V | 11.62 | 25.07 | 46.00 | -20.93 |
| 4904.00 | 49.54 | PK | 298.77 | 1.93 | V | 0.24 | 49.30 | 74.00 | -24.70 |
| 4904.00 | 43.97 | Ave | 298.77 | 1.93 | V | 0.24 | 43.73 | 54.00 | -10.27 |
| 7356.00 | 39.38 | PK | 143.74 | 1.70 | Н | 2.84 | 42.22 | 74.00 | -31.78 |
| 7356.00 | 34.38 | Ave | 143.74 | 1.70 | Н | 2.84 | 37.22 | 54.00 | -16.78 |
| 2334.89 | 45.32 | PK | 180.90 | 1.05 | V | 13.19 | 32.13 | 74.00 | -41.87 |
| 2334.89 | 37.16 | Ave | 180.90 | 1.05 | V | 13.19 | 23.97 | 54.00 | -30.03 |
| 2350.98 | 44.92 | PK | 287.75 | 1.68 | Н | 13.14 | 31.78 | 74.00 | -42.22 |
| 2350.98 | 37.34 | Ave | 287.75 | 1.68 | Н | 13.14 | 24.20 | 54.00 | -29.80 |
| 2498.84 | 42.56 | PK | 78.61 | 1.51 | V | 13.08 | 29.48 | 74.00 | -44.52 |
| 2498.84 | 36.83 | Ave | 78.61 | 1.51 | V | 13.08 | 23.75 | 54.00 | -30.25 |

Test Frequency: 18GHz~25GHz

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

Reference No.: WTS17S0476389-2E V3 Page 37 of 94

BT BLE: Test Frequency: 9KHz~26MHz

| Frequency | Measurement results dBµV | Detector PK/QP | Correct factor | Extrapolatio n factor | Measurement results (calculated) | Limits dBµV/m | Margi n | | | |
|-----------|--------------------------|-------------------|-------------------|--------------------------|----------------------------------|------------------|------------|--|--|--|
| | @3m | | dB/m | dB | dBµV/m @30m | @30m | dB | | | |
| (MHz) | Measurement | Detector | Correct | Extrapolatio | Measurement Limits | | Margi | | | |
| (IVII IZ) | results | Detector | factor | n factor | results (calculated) | Lillits | n | | | |
| | GFSK Low Channel 2402MHz | | | | | | | | | |
| 6.032 | 24.03 | .03 QP | | 40.00 | 5.87 | 29.54 | -23.67 | | | |
| 8.051 | 25.62 | QP | 21.02 | 40.00 | 6.64 | 29.54 | -22.90 | | | |
| 25.215 | 24.27 | QP | 20.55 | 40.00 | 4.82 | 29.54 | -24.72 | | | |

| | Measurement | Detector | Correct | Extrapolatio | Measurement | Limits | Margi |
|-----------|--------------|----------|------------|--------------|----------------------|---------|--------|
| Frequency | results dBµV | PK/QP | factor | n factor | results (calculated) | dBµV/m | n |
| | @3m | | dB/m | dB | dBµV/m @30m | @30m | dB |
| (MHz) | Measurement | Detector | Correct | Extrapolatio | Measurement | Limits | Margi |
| (1711 12) | results | Detector | factor | n factor | results (calculated) | Liiiilo | n |
| | | GFSK | Middle Cha | nnel 2440MHz | | | |
| 6.124 | 25.29 | QP | 21.84 | 40.00 | 7.13 | 29.54 | -22.41 |
| 8.227 | 26.35 | QP | 21.02 | 40.00 | 7.37 | 29.54 | -22.17 |
| 25.069 | 24.26 | QP | 20.55 | 40.00 | 4.81 | 29.54 | -24.73 |

| Frequency | Measurement results dBµV @3m | Detector PK/QP | Correct factor dB/m | Extrapolatio n factor dB | Measurement results (calculated) dBµV/m @30m | Limits dBµV/m @30m | Margi n dB | | |
|-----------|------------------------------------|----------------------|---------------------------|--------------------------------|--|--------------------------|------------------|--|--|
| (MHz) | Measurement results | Detector | Correct factor | Extrapolatio n factor | Measurement results (calculated) | Limits | Margi n | | |
| | GFSK High Channel 2480MHz | | | | | | | | |
| 6.112 | 24.12 | QP | 21.84 | 40.00 | 5.96 | 29.54 | -23.58 | | |
| 8.205 | 25.88 | QP | 21.02 | 40.00 | 6.90 | 29.54 | -22.64 | | |
| 25.057 | 24.03 | 24.03 QP 20.55 40.00 | | 4.58 | 29.54 | -24.96 | | | |

Reference No.: WTS17S0476389-2E V3 Page 38 of 94

Test Frequency : 26MHz ~ 30MHz

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

Test Frequency : 30MHz ~ 18GHz

| | Receiver | | Turn | RX An | tenna | Corrected | Corrected | | |
|-------------------|----------|-------------|----------------|----------|----------|-----------|-----------|----------|--------|
| Frequency Reading | Reading | Detector | table Angle | Height | Polar | Factor | Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | | GFSK L | ₋ow Chan | nel 2402 | 2MHz | | | |
| 266.35 | 35.62 | QP | 115 | 1.6 | Н | -13.35 | 22.27 | 46.00 | -23.73 |
| 266.35 | 40.25 | QP | 59 | 1.5 | V | -13.35 | 26.90 | 46.00 | -19.10 |
| 4804.00 | 46.33 | PK | 301 | 1.8 | V | -1.06 | 45.27 | 74.00 | -28.73 |
| 4804.00 | 44.25 | Ave | 301 | 1.8 | V | -1.06 | 43.19 | 54.00 | -10.81 |
| 7206.00 | 40.62 | PK | 214 | 1.4 | Н | 1.33 | 41.95 | 74.00 | -32.05 |
| 7206.00 | 35.37 | Ave | 214 | 1.4 | Н | 1.33 | 36.70 | 54.00 | -17.30 |
| 2318.99 | 46.21 | PK | 198 | 1.7 | V | -13.19 | 33.02 | 74.00 | -40.98 |
| 2318.99 | 39.83 | Ave | 198 | 1.7 | V | -13.19 | 26.64 | 54.00 | -27.36 |
| 2379.19 | 44.41 | PK | 64 | 1.7 | Н | -13.14 | 31.27 | 74.00 | -42.73 |
| 2379.19 | 38.44 | Ave | 64 | 1.7 | Н | -13.14 | 25.30 | 54.00 | -28.70 |
| 2492.98 | 43.52 | PK | 68 | 1.7 | V | -13.08 | 30.44 | 74.00 | -43.56 |
| 2492.98 | 37.89 | Ave | 68 | 1.7 | V | -13.08 | 24.81 | 54.00 | -29.19 |

Reference No.: WTS17S0476389-2E V3 Page 39 of 94

| | Receiver | | Turn | RX Antenna | | Corrected Factor | Corrected Amplitude | Limit | Margin |
|-------------------|----------|----------------|--------|------------|----------|---------------------|------------------------|----------|--------|
| Frequency Reading | Detector | table Angle | Height | Polar | | | | | |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | | GFSK M | iddle Cha | nnel 244 | I0MHz | | | |
| 266.35 | 35.62 | QP | 115 | 1.6 | Н | -13.35 | 22.27 | 46.00 | -23.73 |
| 266.35 | 40.25 | QP | 59 | 1.5 | V | -13.35 | 26.90 | 46.00 | -19.10 |
| 4804.00 | 46.33 | PK | 301 | 1.8 | V | -1.06 | 45.27 | 74.00 | -28.73 |
| 4804.00 | 44.25 | Ave | 301 | 1.8 | V | -1.06 | 43.19 | 54.00 | -10.81 |
| 7206.00 | 40.62 | PK | 214 | 1.4 | Н | 1.33 | 41.95 | 74.00 | -32.05 |
| 7206.00 | 35.37 | Ave | 214 | 1.4 | Н | 1.33 | 36.70 | 54.00 | -17.30 |
| 2318.99 | 46.21 | PK | 198 | 1.7 | V | -13.19 | 33.02 | 74.00 | -40.98 |
| 2318.99 | 39.83 | Ave | 198 | 1.7 | V | -13.19 | 26.64 | 54.00 | -27.36 |
| 2379.19 | 44.41 | PK | 64 | 1.7 | Н | -13.14 | 31.27 | 74.00 | -42.73 |
| 2379.19 | 38.44 | Ave | 64 | 1.7 | Н | -13.14 | 25.30 | 54.00 | -28.70 |
| 2492.98 | 43.52 | PK | 68 | 1.7 | V | -13.08 | 30.44 | 74.00 | -43.56 |
| 2492.98 | 37.89 | Ave | 68 | 1.7 | V | -13.08 | 24.81 | 54.00 | -29.19 |

| | Receiver | r | Turn | RX Antenna | | Corrected Cor | Corrected | | |
|-----------|----------|-------------|----------------|------------|----------|---------------|-----------|----------|--------|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | | GFSK H | ligh Chan | nel 2480 | OMHz | | | |
| 266.35 | 35.62 | QP | 115 | 1.6 | Н | -13.35 | 22.27 | 46.00 | -23.73 |
| 266.35 | 40.25 | QP | 59 | 1.5 | V | -13.35 | 26.90 | 46.00 | -19.10 |
| 4804.00 | 46.33 | PK | 301 | 1.8 | V | -1.06 | 45.27 | 74.00 | -28.73 |
| 4804.00 | 44.25 | Ave | 301 | 1.8 | V | -1.06 | 43.19 | 54.00 | -10.81 |
| 7206.00 | 40.62 | PK | 214 | 1.4 | Н | 1.33 | 41.95 | 74.00 | -32.05 |
| 7206.00 | 35.37 | Ave | 214 | 1.4 | Н | 1.33 | 36.70 | 54.00 | -17.30 |
| 2318.99 | 46.21 | PK | 198 | 1.7 | V | -13.19 | 33.02 | 74.00 | -40.98 |
| 2318.99 | 39.83 | Ave | 198 | 1.7 | V | -13.19 | 26.64 | 54.00 | -27.36 |
| 2379.19 | 44.41 | PK | 64 | 1.7 | Н | -13.14 | 31.27 | 74.00 | -42.73 |
| 2379.19 | 38.44 | Ave | 64 | 1.7 | Н | -13.14 | 25.30 | 54.00 | -28.70 |
| 2492.98 | 43.52 | PK | 68 | 1.7 | V | -13.08 | 30.44 | 74.00 | -43.56 |
| 2492.98 | 37.89 | Ave | 68 | 1.7 | V | -13.08 | 24.81 | 54.00 | -29.19 |

Test Frequency: 18GHz~25GHz

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

Reference No.: WTS17S0476389-2E V3 Page 41 of 94

10 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 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)).

10.1 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:

Blow 1GHz:

RBW = 100kHz, VBW = 300kHz, Sweep = auto Detector function = peak, Trace = max hold

Above 1GHz:

For WIFI mode

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

Detector function = peak, Trace = max hold

For BLE mode

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

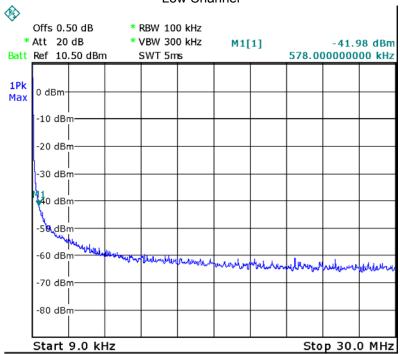
Detector function = peak, Trace = max hold

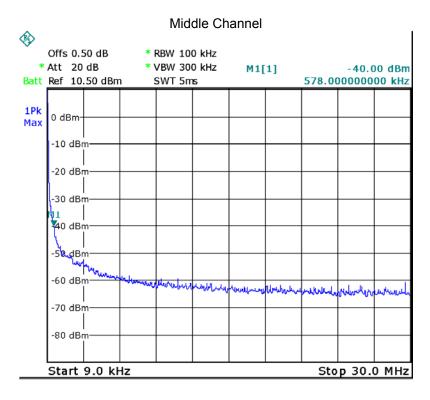
10.2 Test Result

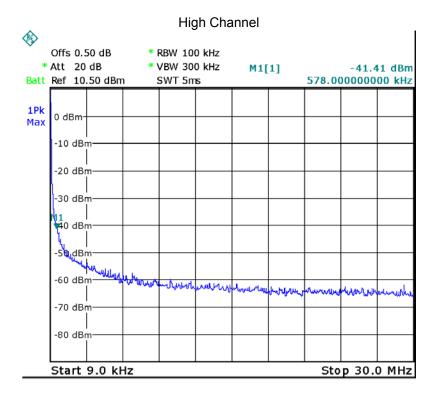
9KHz - 30MHz

802.11b

Low Channel

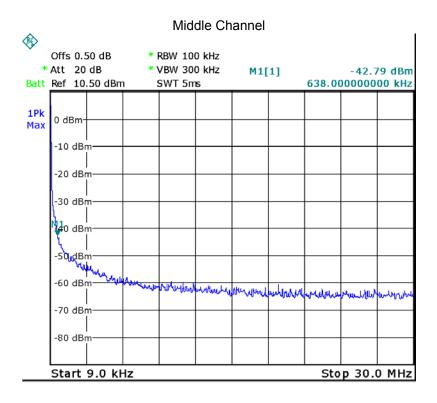


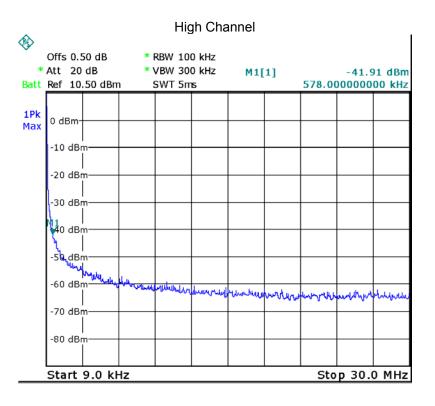




802.11g Low Channel **③** Offs 0.50 dB * RBW 100 kHz * VBW 300 kHz * Att 20 dB M1[1] -41.37 dBm Batt Ref 10.50 dBm SWT 5ms 578.000000000 kHz 1Pk 0 dBm-Max -10 dBm -20 dBm -30 dBm 40 dBm -50 վեր -60 dBm metership with the selection of the sele -70 dBm -80 dBm Start 9.0 kHz Stop 30.0 MHz

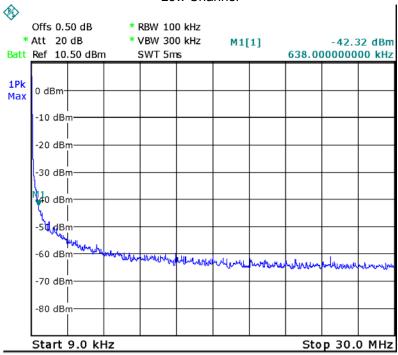
Waltek Services (Shenzhen) Co.,Ltd. http://www.waltek.com.cn

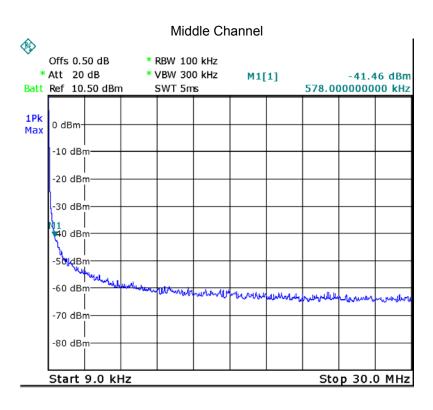


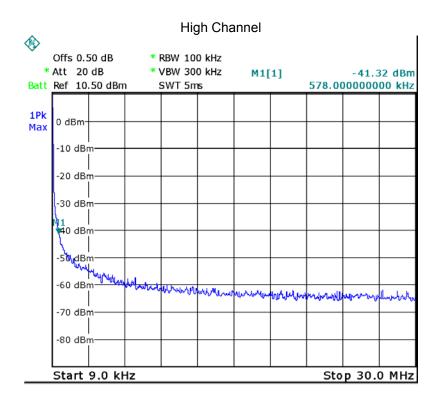


802.11n HT20

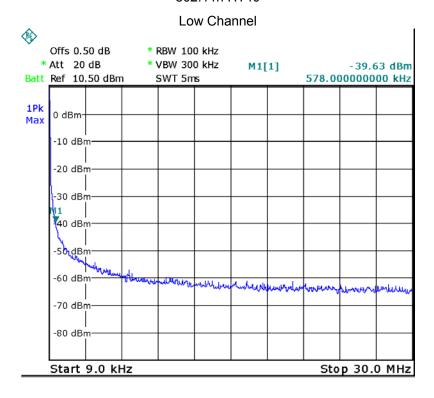
Low Channel

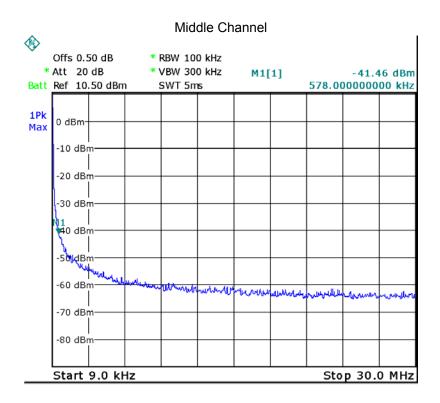


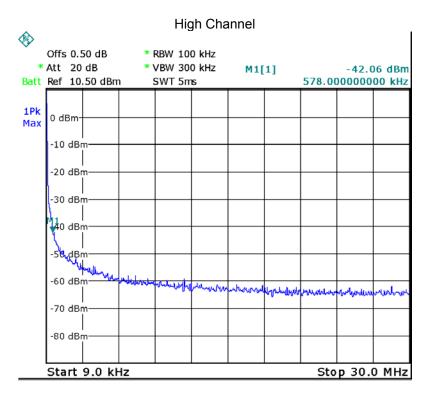




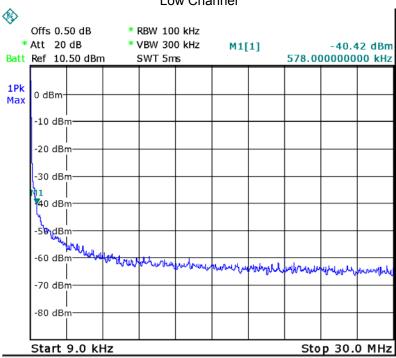
802.11n HT40

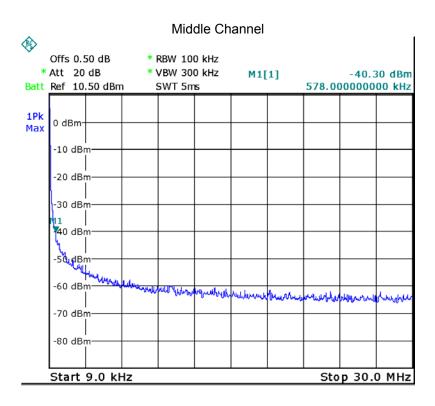


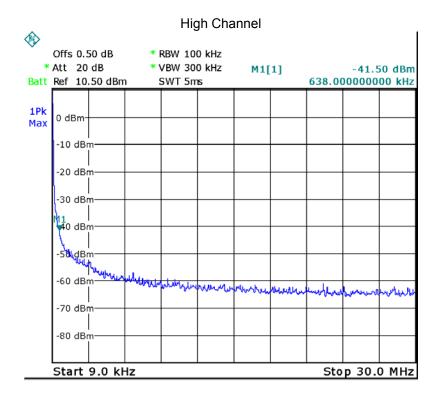




BLE Low Channel



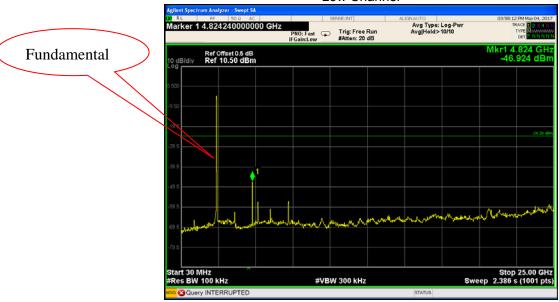


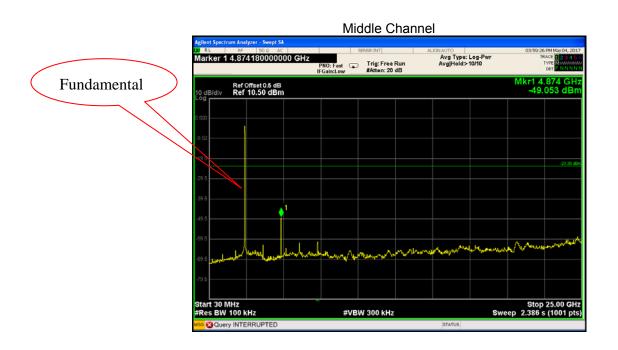


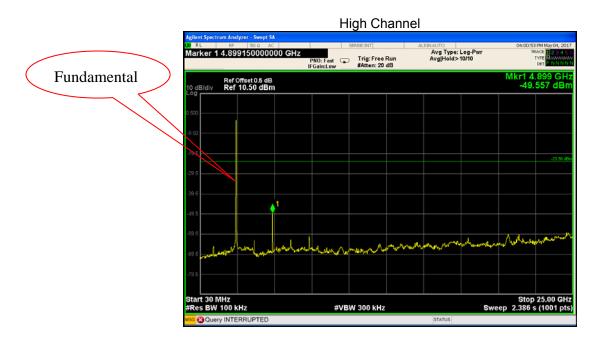
Above 30MHz

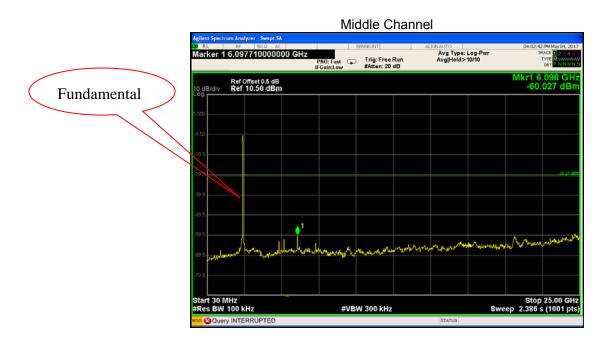
802.11b

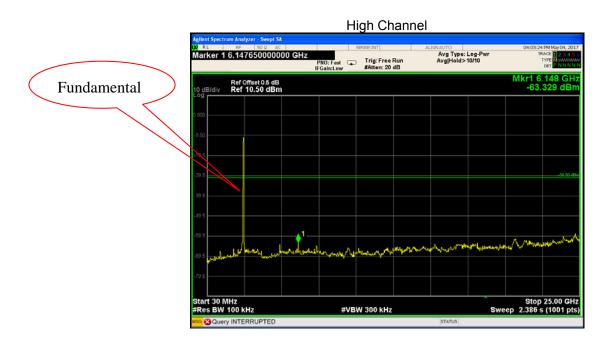
Low Channel



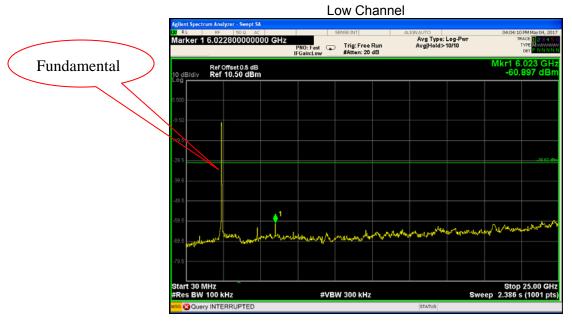


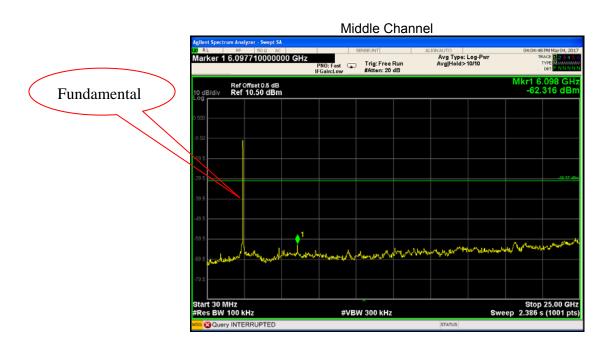


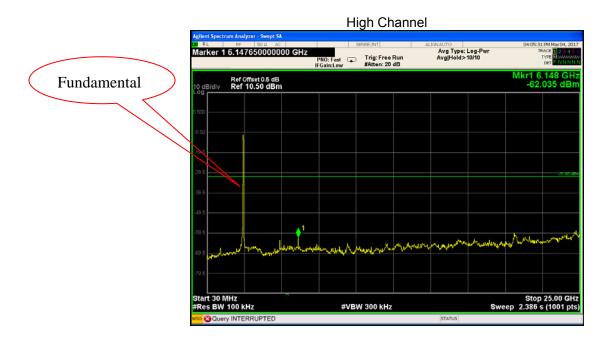




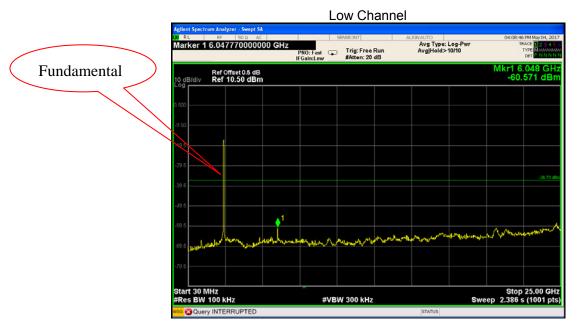
802.11n HT20

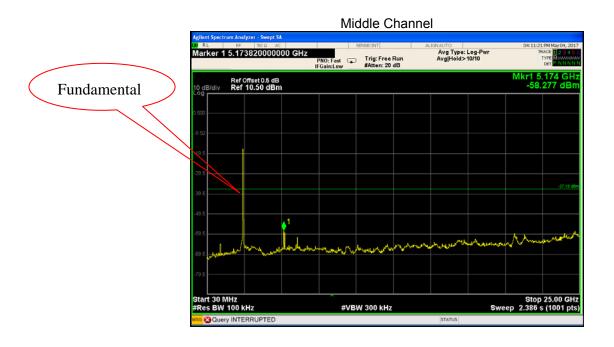


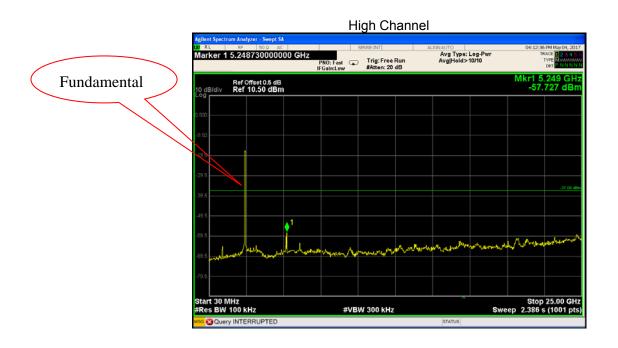




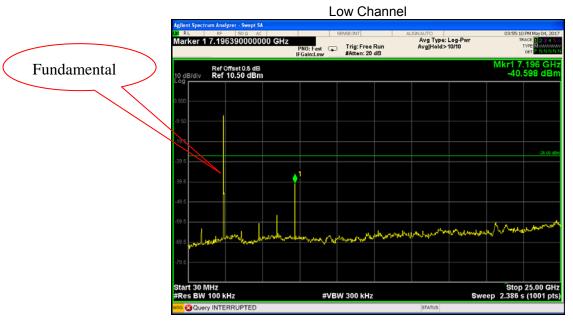
802.11n HT40

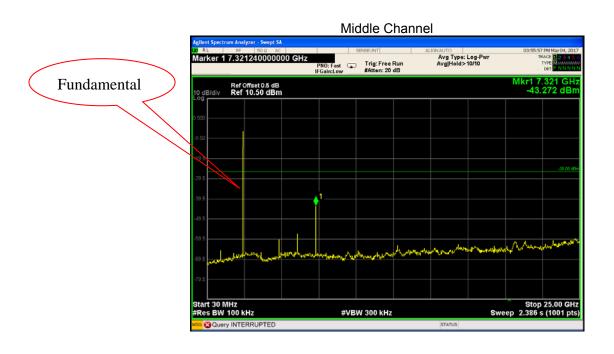


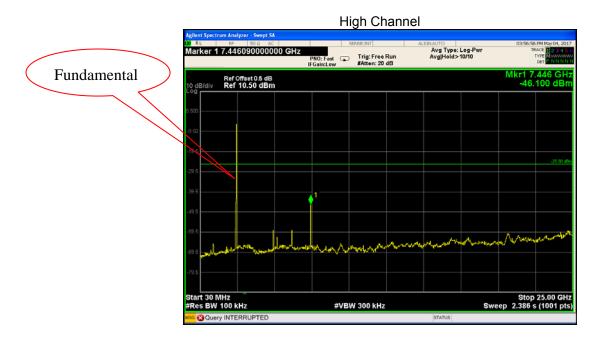




BLE







Reference No.: WTS17S0476389-2E V3 Page 58 of 94

11 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 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

Test Mode: Transmitting

11.1 Test Produce

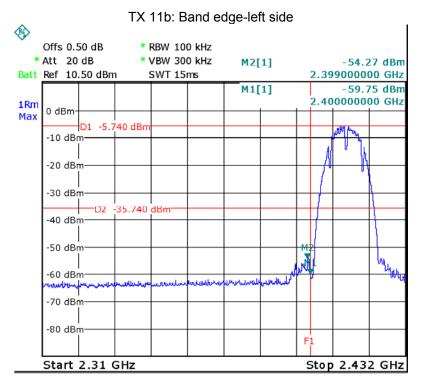
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

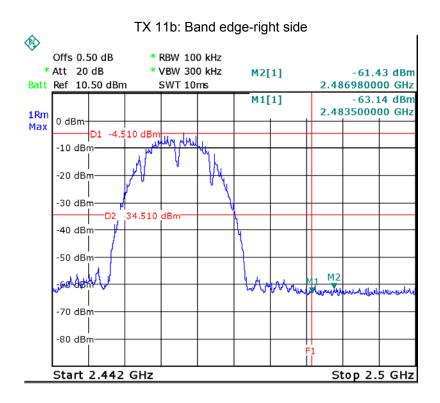
specified in §15.209(a) (see §15.205(c)).

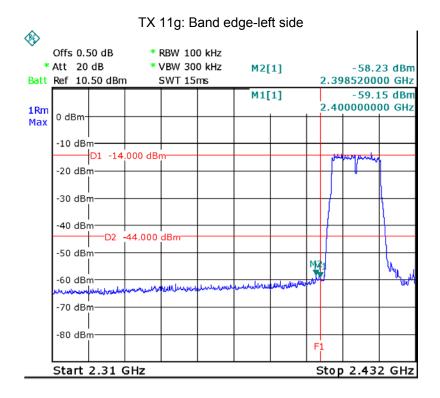
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. 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.

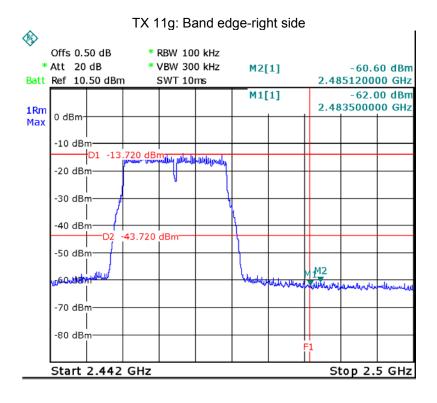
11.2 Test Result

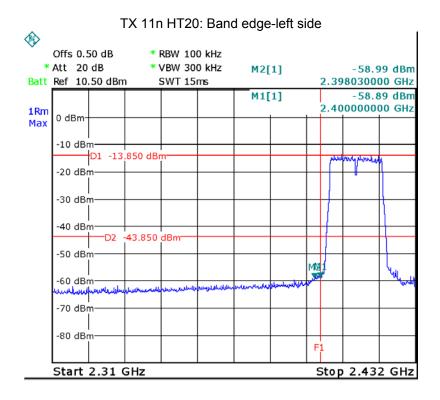
Test result plots shown as follows:

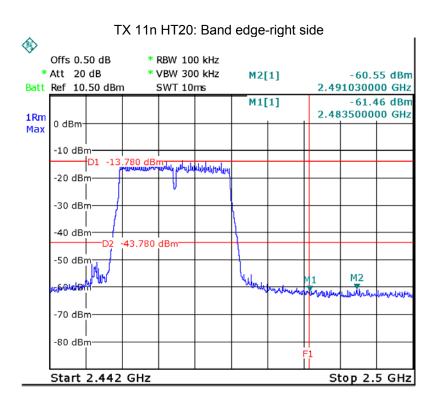


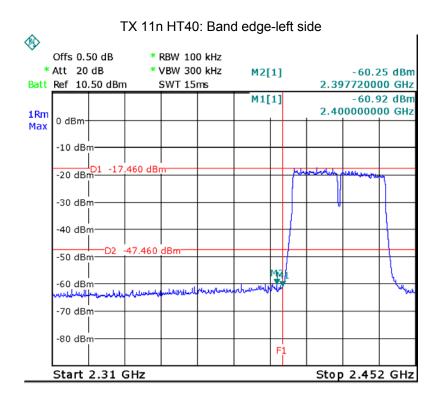


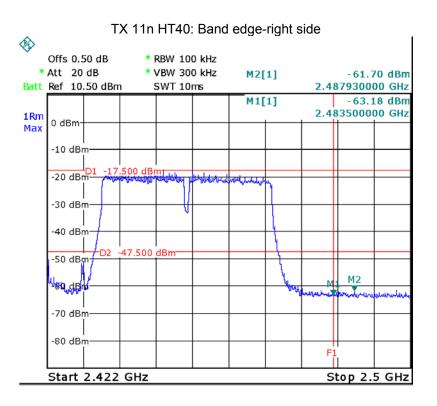


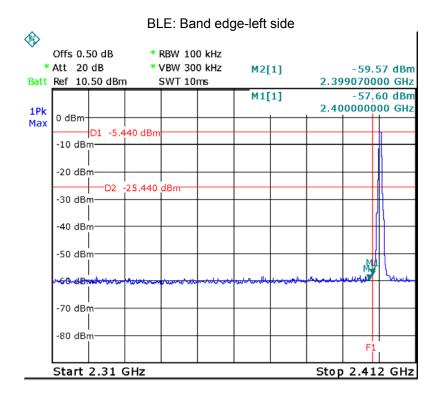


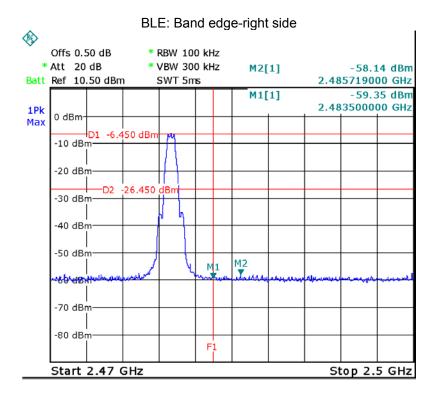












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12 6 dB Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

12.1 Test Procedure:

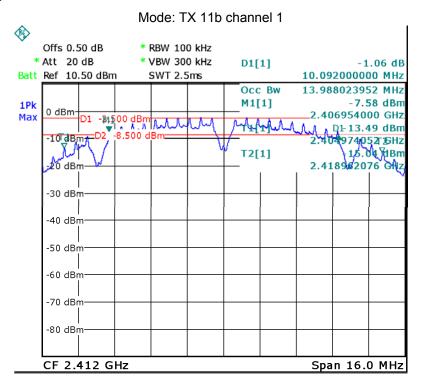
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

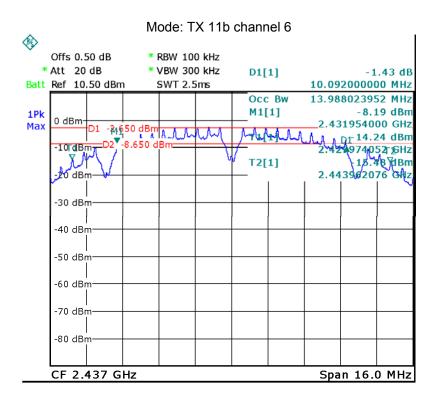
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

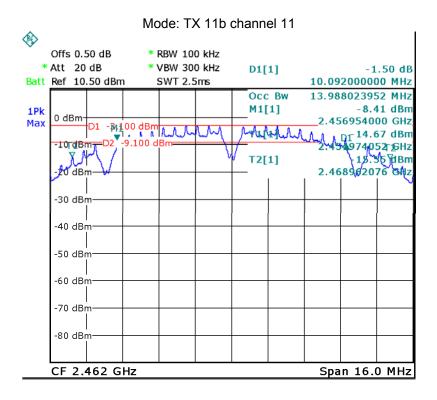
12.2 Test Result:

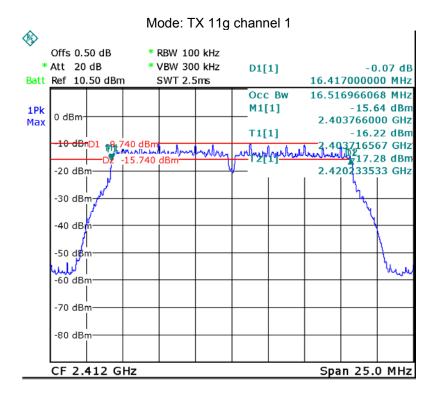
| Operation mode | Test Channel | Bandwidth (MHz) | Limit (kHz) |
|----------------|--------------|-----------------|-------------|
| | Channel 1 | 10.092 | 500 |
| TX 11b | Channel 6 | 10.092 | 500 |
| | Channel 11 | 10.092 | 500 |
| | Channel 1 | 16.417 | 500 |
| TX 11g | Channel 6 | 16.417 | 500 |
| | Channel 11 | 16.417 | 500 |
| | Channel 1 | 17.623 | 500 |
| TX 11n HT20 | Channel 6 | 17.623 | 500 |
| | Channel 11 | 17.623 | 500 |
| | Channel 3 | 36.120 | 500 |
| TX 11n HT40 | Channel 6 | 36.120 | 500 |
| | Channel 9 | 36.120 | 500 |
| | Channel 0 | 0.707 | 500 |
| BLE | Channel 19 | 0.707 | 500 |
| | Channel 39 | 0.707 | 500 |

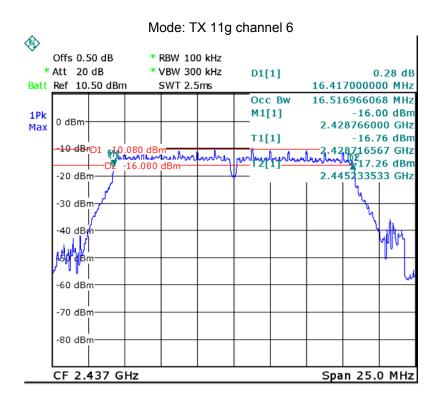
Test result plot:

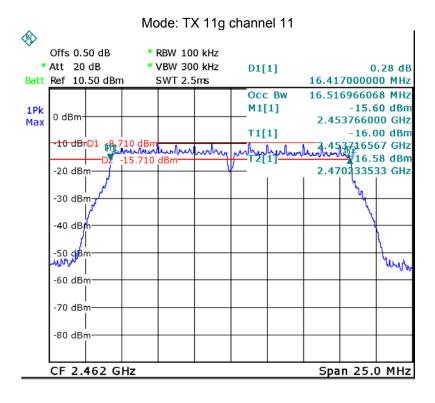


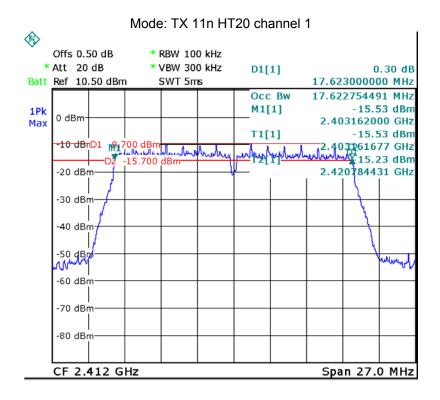


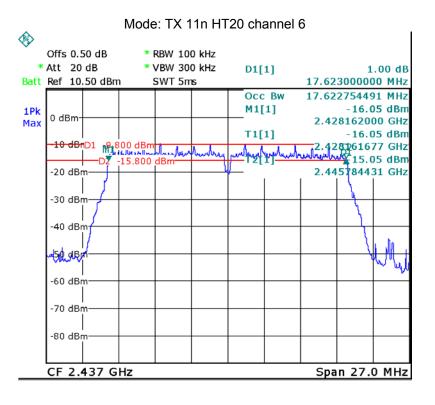


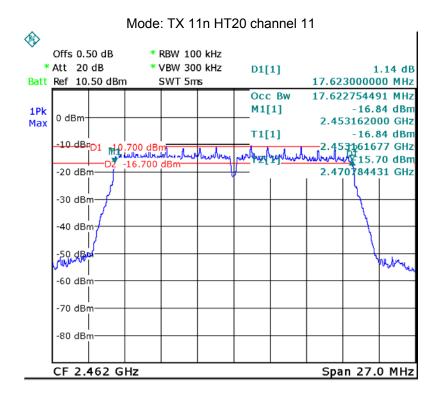


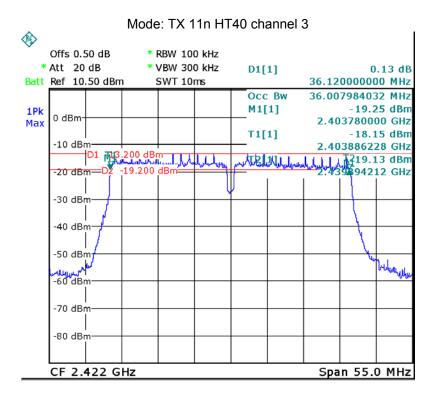


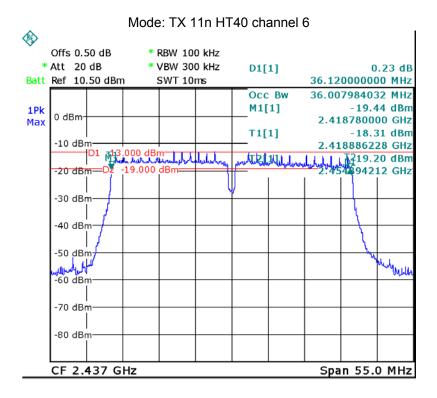


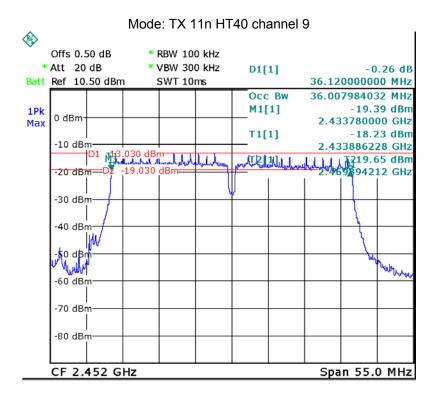


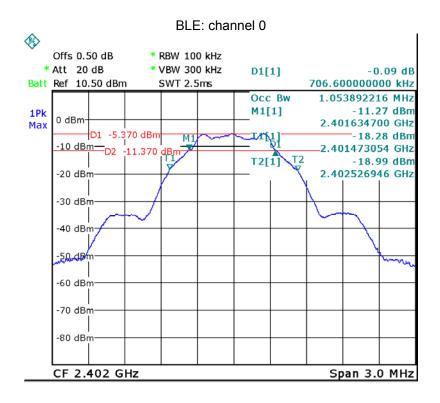


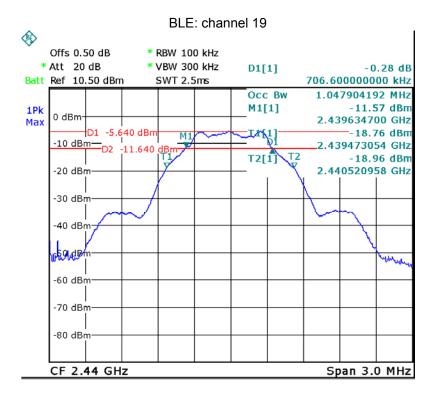


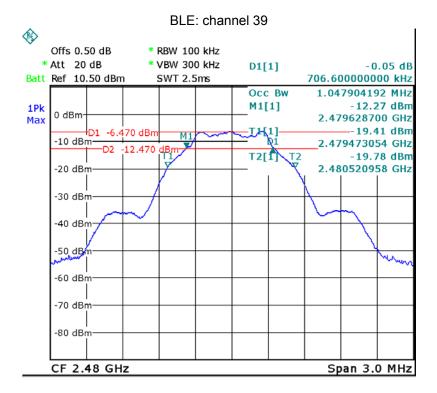












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13 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

13.1 Test Procedure:

KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 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 ≥ 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.

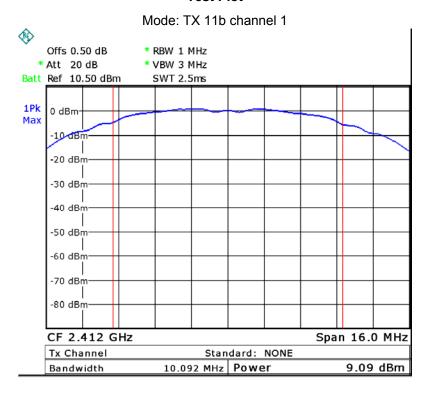
- a)Set the RBW = 1 MHz.
- b)Set the VBW ≥ 3 RBW
- c)Set the span \geq 1.5 x DTS bandwidth.
- d)Detector = peak.
- e)Sweep time = auto couple.
- f)Trace mode = max hold.
- g)Allow trace to fully stabilize.
- h)Use the instrument's band/channel power measurement function with the band limits set equal 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.

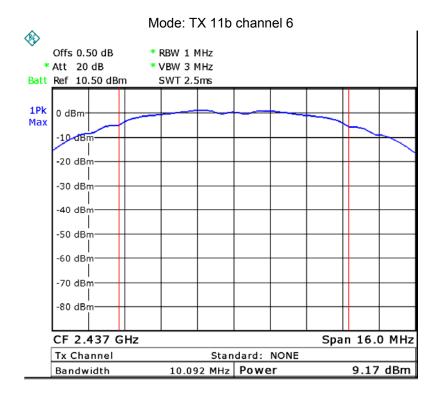
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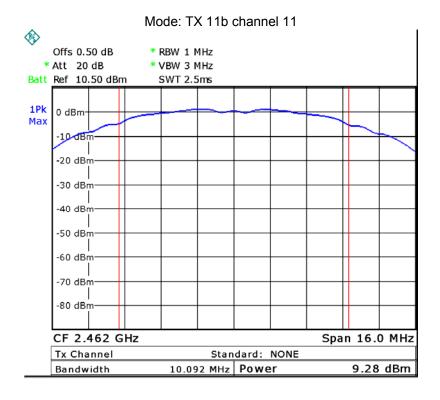
13.2 Test Result:

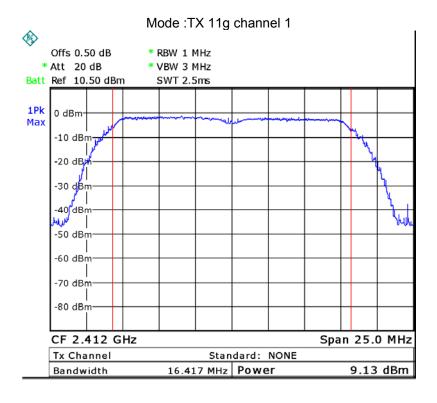
| Operation mode | Channel Frequency (MHz) | Maximum Peak Output Power (dBm) | Limit |
|----------------|----------------------------|---------------------------------|----------|
| TX 11b | Low-2412 | 9.09 | 1W/30dBm |
| | Middle-2437 | 9.17 | 1W/30dBm |
| | High-2462 | 9.28 | 1W/30dBm |
| TX 11g | Low-2412 | 9.13 | 1W/30dBm |
| | Middle-2437 | 9.25 | 1W/30dBm |
| | High-2462 | 9.35 | 1W/30dBm |
| TX 11n HT20 | Low-2412 | 9.01 | 1W/30dBm |
| | Middle-2437 | 9.12 | 1W/30dBm |
| | High-2462 | 9.17 | 1W/30dBm |
| TX 11n HT40 | Low-2422 | 9.12 | 1W/30dBm |
| | Middle-2437 | 9.28 | 1W/30dBm |
| | High-2452 | 9.07 | 1W/30dBm |
| BLE | Low-2402 | -4.60 | 1W/30dBm |
| | Middle-2440 | -4.90 | 1W/30dBm |
| | High-2480 | -5.52 | 1W/30dBm |

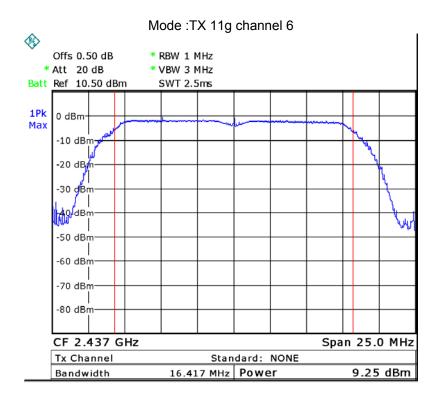
Test Plot

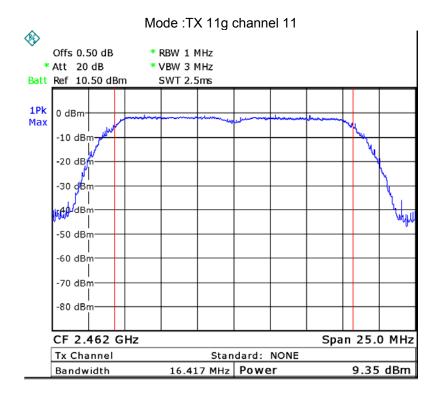


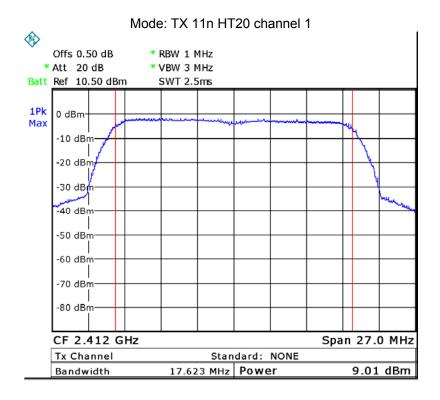


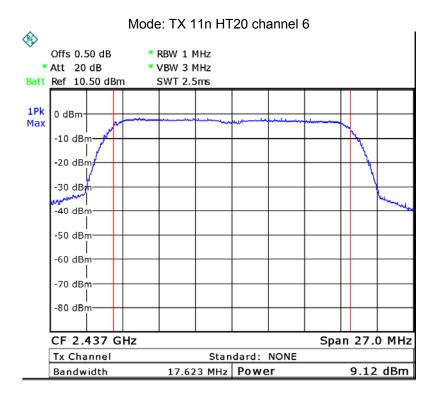


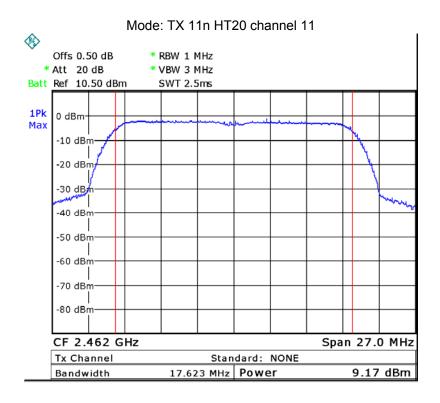


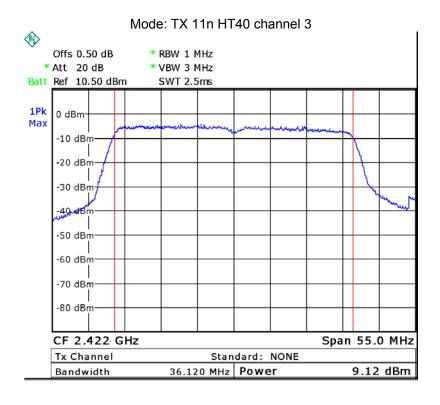


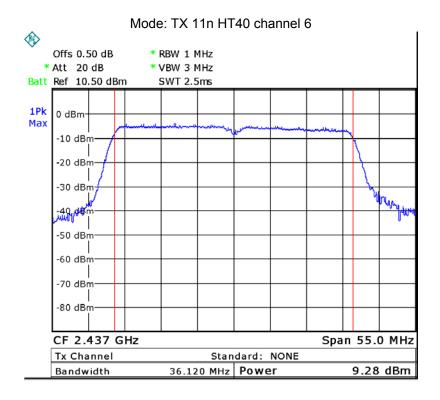


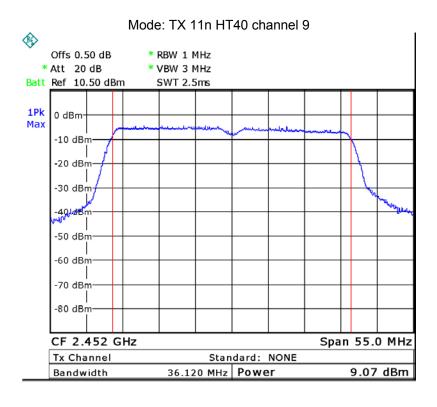


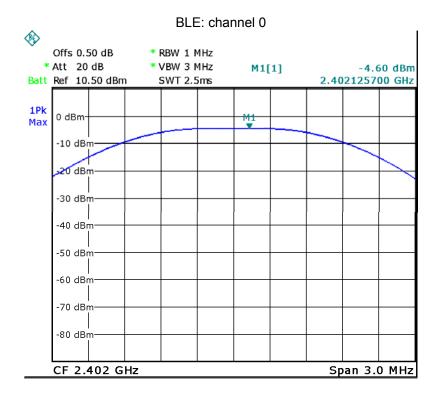


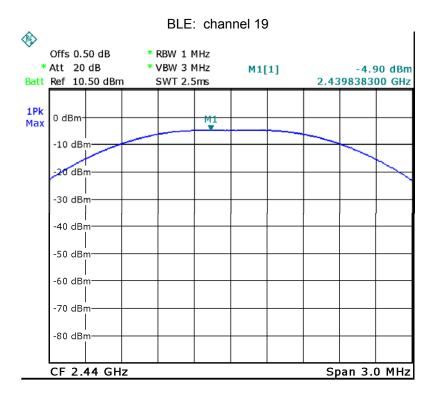


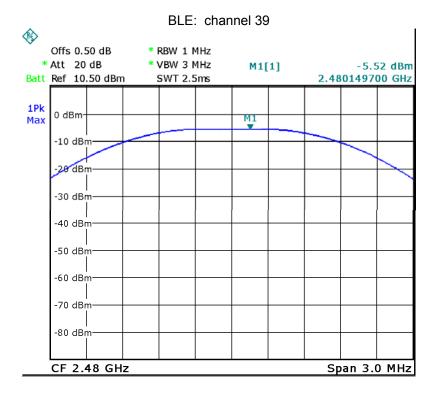












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14 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

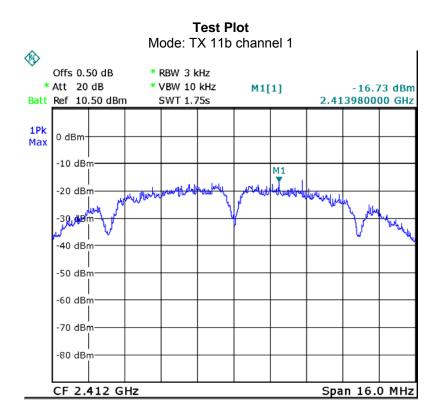
14.1 Test Procedure:

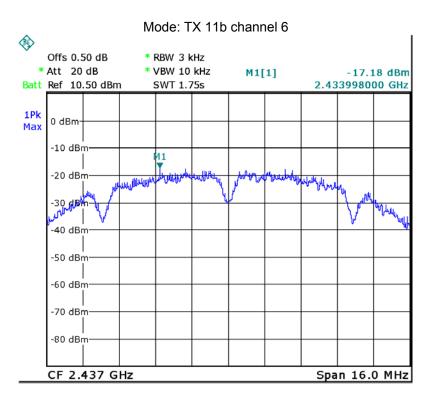
KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016 section 10.2

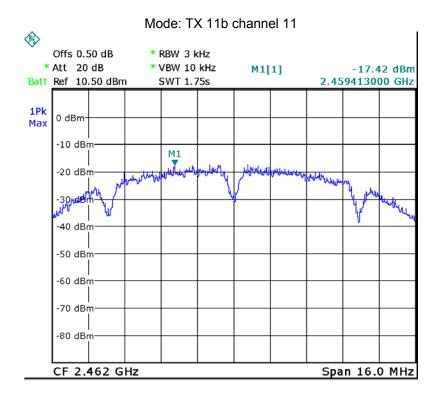
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 3. Allow the trace 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.

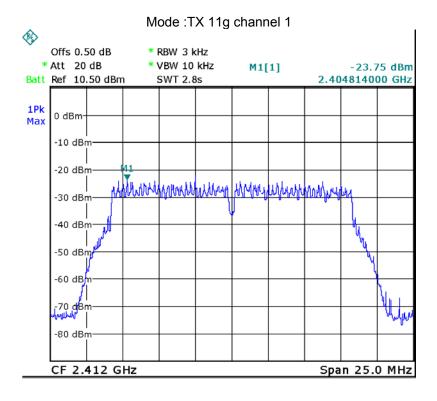
14.2 Test Result:

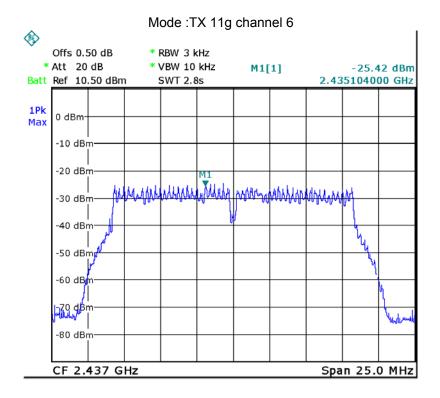
| Operation mode | Channel Frequency (MHz) | Power Spectral (dBm per 3kHz) | Limit |
|----------------|----------------------------|----------------------------------|---------------|
| TX 11b | Low-2412 | -16.73 | 8dBm per 3kHz |
| | Middle-2437 | -17.18 | 8dBm per 3kHz |
| | High-2462 | -17.42 | 8dBm per 3kHz |
| TX 11g | Low-2412 | -23.75 | 8dBm per 3kHz |
| | Middle-2437 | -25.42 | 8dBm per 3kHz |
| | High-2462 | -24.23 | 8dBm per 3kHz |
| TX 11n HT20 | Low-2412 | -25.28 | 8dBm per 3kHz |
| | Middle-2437 | -24.86 | 8dBm per 3kHz |
| | High-2462 | -22.89 | 8dBm per 3kHz |
| TX 11n HT40 | Low-2422 | -28.77 | 8dBm per 3kHz |
| | Middle-2437 | -27.58 | 8dBm per 3kHz |
| | High-2452 | -28.27 | 8dBm per 3kHz |
| BLE | Low-2402 | -20.48 | 8dBm per 3kHz |
| | Middle-2440 | -20.77 | 8dBm per 3kHz |
| | High-2480 | -21.39 | 8dBm per 3kHz |

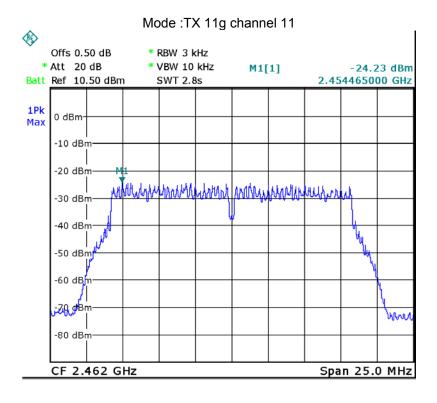


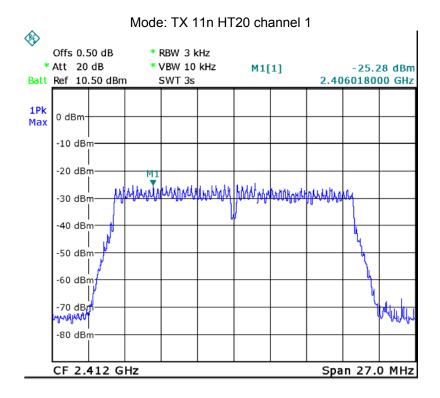


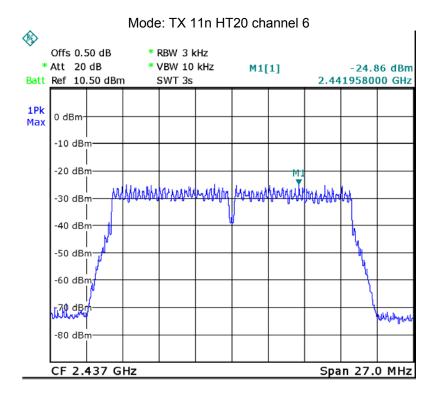


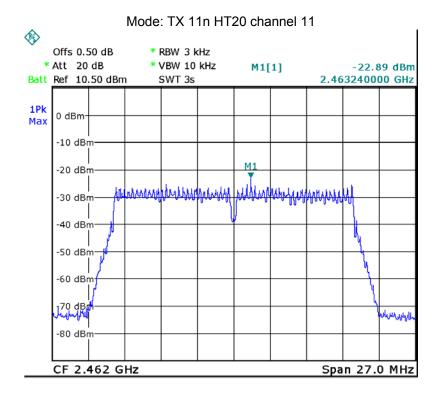


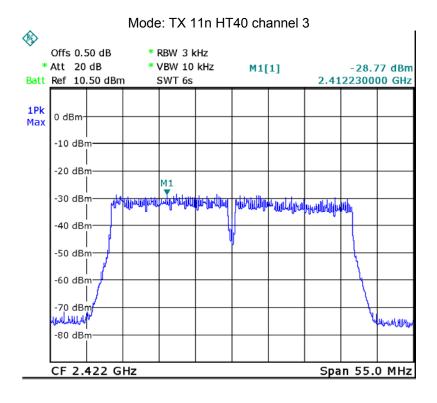


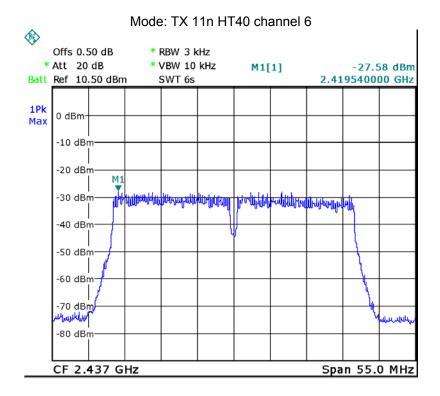


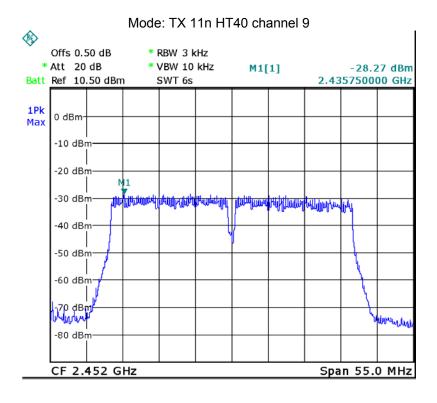


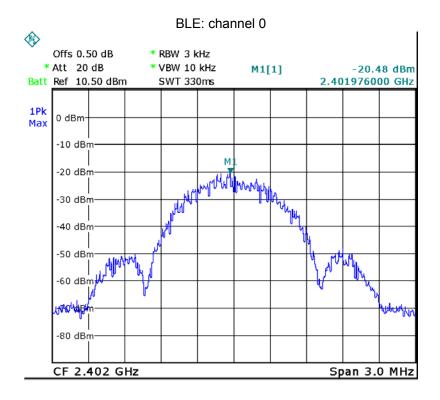


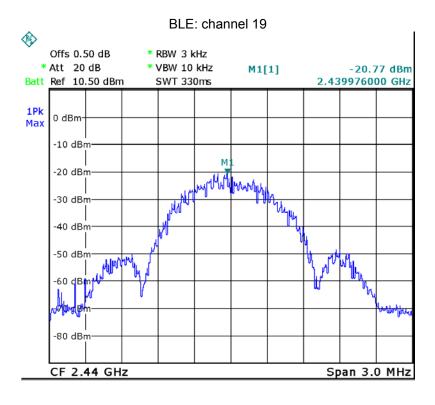


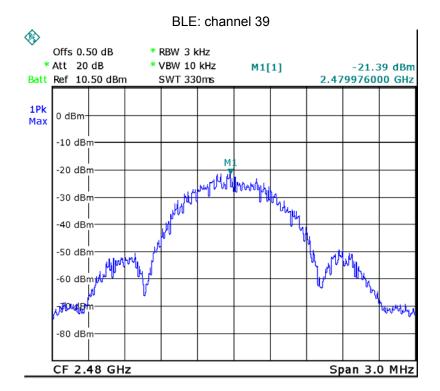












15 Antenna Requirement

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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16 RF Exposure

Remark: refer to SAR test report: WTS17S0476388E.

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17 Photographs of test setup and EUT.

Note: Please refer to appendix: WTS17S0476389E_Photo.

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