

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Frey
Brand Name: Bitatek
Marketing Name: Frey M1-0000
Model No.: Frey M1-0000, Frey M1-0010
Model Difference: Frey M1-0000 with GPS
Frey M1-0010 without GPS
FCC ID: SPYIM0002
Report No.: E2/2016/50043
Issue Date: Jun. 04, 2016
FCC Rule Part: §15.247, Cat: DTS
Prepared for: BitaTek Co., Ltd.
6F.,No.115,Wugong 3rd Rd.,Wugu Dist.,New
Taipei City 248, Taiwan
Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan District, Taoyuan
City, Taiwan 333

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VERIFICATION OF COMPLIANCE

Applicant: BitaTek Co., Ltd.
6F., No.115, Wugong 3rd Rd., Wugu Dist., New Taipei City 248,
Taiwan

Product Name: Frey

Brand Name: Bitatek

Marketing Name: Frey M1-0000

Model No.: Frey M1-0000

Model Difference: Frey M1-0000, Frey M1-0010

FCC ID: SPYIM0002

Report Number: E2/2016/50043

Date of test: May. 11, 2016 ~ May. 30, 2016

Date of EUT Received: May. 11, 2016

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Test By:**Date:**

Jun. 04, 2016

Jerry Lu / Sr.Engineer**Prepared By:****Date:**

Jun. 04, 2016

Allen Tsai / Engineer**Approved By:****Date:**

Jun. 04, 2016

Jim Chang / Asst. Manager

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Revision History

| Report Number | Revision | Description | Issue Date |
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| E2/2016/50043 | Rev.00 | Initial creation of document | Jun. 04, 2016 |
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1 GENERAL INFORMATION

1.1 Product description

General:

| | |
|-------------------|---|
| Product Name: | Frey |
| Brand Name: | Bitatek |
| Marketing Name: | Frey M1-0000 |
| Model No.: | Frey M1-0000, Frey M1-0010 |
| Model Difference: | Frey M1-0000 with GPS Frey M1-0010 without GPS |
| Software version: | N/A |
| Hardware version: | ES1.1 |
| Power Supply: | 3.8Vdc from Power supply |

WLAN 2.4GHz:

| Wi-Fi | Frequency Range | Channels | Rated Power | Type of Emission | Modulation Technology |
|----------------------|-------------------|---|----------------------------|------------------------|-----------------------|
| 11b/g | 2412-2462 | 11 | b: 17.98dBm g: 21.19dBm | b:7M60G1D g:16M4D1D | DSSS, OFDM |
| 11n | HT20 2412-2462 | 11 | HT20:20.94dBm | HT20:17M6D1D | OFDM |
| 11n | HT40 2422-2452 | 9 | HT40:21.21dBm | HT40:35M5D1D | OFDM |
| Antenna Designation: | | Dipole Antenna, Part No.: 98619PSAX001, Supplier: N/A Gain:1.82dBi | | | |
| Modulation type: | | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM | | | |
| Transition Rate: | | 802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 72.2Mbps 802.11 n_40MHz: 13.5 - 150.0Mbps | | | |

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is supporting, Bluetooth and 802.11 a/b/g/n/ac features, and below is details of information.

| Product Feature | |
|---------------------|---|
| Product Name: | Frey |
| Brand Name: | Bitatek |
| Marketing Name: | Frey M1-0000 |
| Model No.: | Frey M1-0000, Frey M1-0010 |
| Model Difference: | Frey M1-0000 with GPS Frey M1-0010 without GPS |
| FCC ID: | SPYIM0002 |
| Bluetooth Version: | BT4.1 dual mode |
| Wi-Fi Specification | 802.11 a/b/g/n/ac |

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under a DoC procedure.

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz,. The CISPR Quasi-Peak and Average detector mode is employed according to §15.207. The two LISNs provide 50 ohm/ 50Uh of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." Is still within the 3Db illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 1Db and 10Db attenuator.

$$\text{Offset} = \text{RF cable loss (0.7dB)} + \text{attenuation factor(10dB)} = 10.7\text{dB}$$

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2.5 Configuration of Tested System

Fig. 2-1 Radiated & Conducted Emission

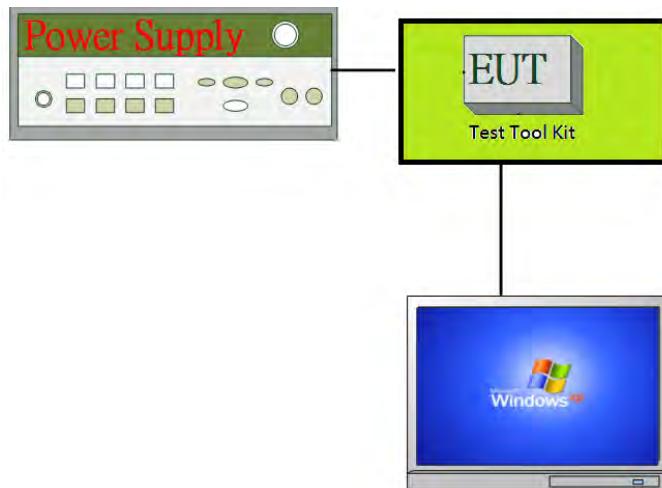


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Soft Ware Version | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|---|-----------|----------------|------------|------------|------------|
| 1 | Notebook | N/A | Lenovo | L412 | LR-027LM | Shielded | Unshielded |
| 2 | WLAN Test Software | N/A | N/A | N/A | N/A | N/A | N/A |
| 3. | DC Power Supply | N/A | Agilent | E3634A | MY53180030 | N/A | Unshielded |
| 4. | Test Tool Kit | Android : 2016-05-07_0.1.4.5 Windows 10 IoT Mobile Enterprise : 14295.14295.20160 318-1628 | N/A | N/A | N/A | Shielded | Unshielded |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|-----------------------|---|-----------|
| §15.207(a) | AC Power Line Conducted Emission | N/A |
| §15.247(b) (3) | Peak Output Power | Compliant |
| §15.247(a)(2) | 6dB & 99% Emission Bandwidth | Compliant |
| §15.247(d) | Conducted Band Edge and Spurious Emission | Compliant |
| §15.247(d) | Radiated Band Edge and Spurious Emission | Compliant |
| §15.247(e) | Power Spectral Density | Compliant |
| §15.203 §15.247(b) | Antenna Requirement | Compliant |

4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

| 802.11 b / g / n_HT20 | | | |
|-----------------------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency |
| 1 | 2412 MHz | 7 | 2442 MHz |
| 2 | 2417 MHz | 8 | 2447 MHz |
| 3 | 2422 MHz | 9 | 2452 MHz |
| 4 | 2427 MHz | 10 | 2457 MHz |
| 5 | 2432 MHz | 11 | 2462 MHz |
| 6 | 2437 MHz | | |

| 802.11 n HT40 Mode | | | |
|--------------------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency |
| 3 | 2422 MHz | 7 | 2442 MHz |
| 4 | 2427 MHz | 8 | 2447 MHz |
| 5 | 2432 MHz | 9 | 2452 MHz |

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.
3. Investigation has been done on all the possible configurations for searching the worst case.

RADIATED EMISSION TEST:

| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | |
|--------------------------------------|-------------------|----------------|------------|------------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
| 802.11g | 1 to 11 | 1,6,11 | OFDM | 6 |

| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | |
|--------------------------------------|-------------------|----------------|------------|------------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
| 802.11b | 1 to 11 | 1, 6, 11 | DSSS | 1 |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | 6 |
| 802.11n (HT20) | 1 to 11 | 1, 6, 11 | OFDM | MCS 0 |
| 802.11n (HT40) | 3 to 9 | 3, 6, 9 | OFDM | MCS 0 |

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E2 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

| CONDUCTED TEST | | | | |
|----------------|-------------------|----------------|------------|------------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) |
| 802.11b | 1 to 11 | 1, 6, 11 | DSSS | 1 |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | 6 |
| 802.11n (HT20) | 1 to 11 | 1, 6, 11 | OFDM | MCS 0 |
| 802.11n (HT40) | 3 to 9 | 3, 6, 9 | OFDM | MCS 0 |

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|-----------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| Peak Output Power | +/- 0.84 dB |
| 6dB Bandwidth | +/- 51.33 Hz |
| 100 KHz Bandwidth Of Frequency Band Edges | +/- 0.84 dB |
| Peak Power Density | +/- 1.3 dB |
| Temperature | +/- 0.65 °C |
| Humidity | +/- 4.6 % |
| DC / AC Power Source | DC= +/- 0.13%, AC= +/- 0.2% |

Radiated Spurious Emission:

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Vertical) | 30MHz - 180MHz: +/- 3.37dB |
| | 180MHz -417MHz: +/- 3.19dB |
| | 0.417GHz-1GHz: +/- 3.19dB |
| | 1GHz - 18GHz: +/- 4.04dB |
| | 18GHz - 40GHz: +/- 4.04dB |

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Horizontal) | 30MHz - 167MHz: +/- 4.22dB |
| | 167MHz -500MHz: +/- 3.44dB |
| | 0.5GHz-1GHz: +/- 3.39dB |
| | 1GHz - 18GHz: +/- 4.08dB |
| | 18GHz - 40GHz: +/- 4.08dB |

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

| Frequency range MHz | Limits dB(uV) | |
|------------------------|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-------------|-------------------|------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI 3 | 101311 | 06/18/2015 | 06/17/2016 |
| Coaxial Cables | N/A | N30N30-1042-150cm | N/A | 02/07/2015 | 02/06/2016 |
| LISN | Schwarzbeck | NSLK 8127 | 8127-648 | 06/09/2015 | 06/08/2016 |
| Test Software | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |

6.3 EUT Setup

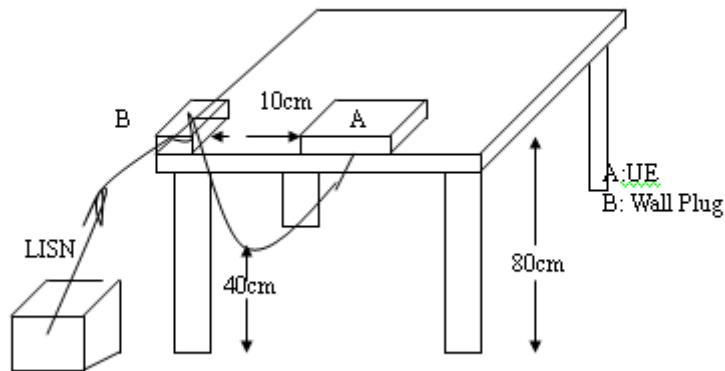
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result

N/A, This device is powered by power supply

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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7 DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

| | Duty Cycle (%) | Duty Factor (dB) |
|------------|----------------|------------------|
| 802.11b | 96.74 | 0.14 |
| 802.11g | 84.15 | 0.75 |
| 802.11n_20 | 86.58 | 0.63 |
| 802.11n_40 | 69.20 | 1.60 |

$$\text{Duty Cycle Factor: } 10 * \log(1/0.9674) = 0.14$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8415) = 0.75$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.8658) = 0.63$$

$$\text{Duty Cycle Factor: } 10 * \log(1/0.692) = 1.6$$

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7.1 DUTY CYCLE TEST SIGNAL Measurement Result

802.11 b



802.11 g

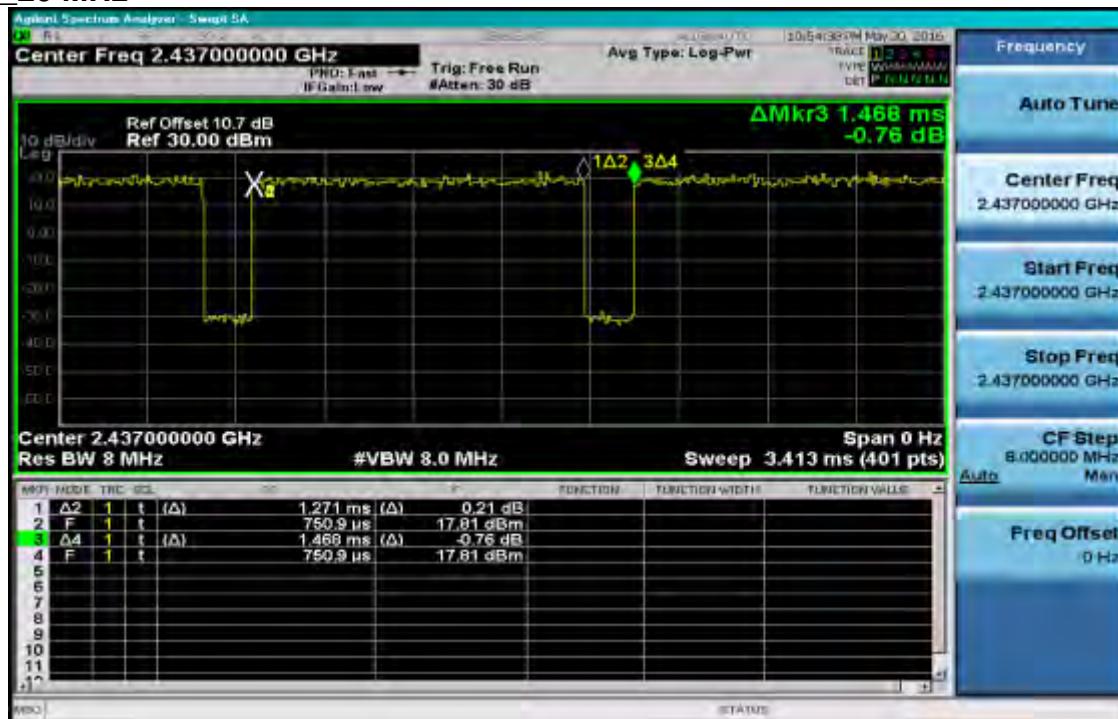


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802.11 n 20 MHz



802.11 n 40 MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

If the transmitting antenna of directional gain greater than 6dBi are used the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

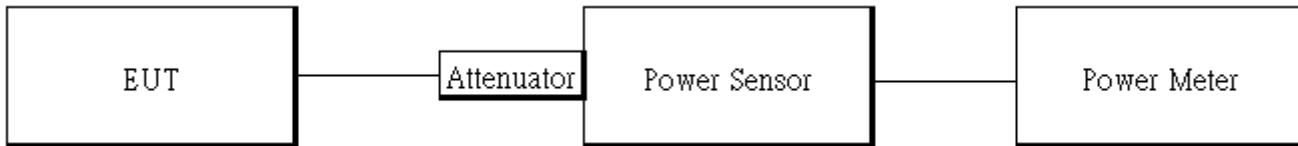
In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

8.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|------------|--------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2496A | 1326001 | 06/23/2015 | 06/22/2016 |
| Power Sensor | Anritsu | MA2411B | 1315048 | 06/23/2015 | 06/22/2016 |
| Power Sensor | Anritsu | MA2411B | 1315049 | 06/23/2015 | 06/22/2016 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A1 95C | RF01 | 12/12/2015 | 12/11/2016 |
| DC Block | PASTERNACK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

8.3 Test Set-up

Power Meter:



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8.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

8.5 Measurement Result

| 802.11b Main | | | | | | |
|--------------|-----------------|-----------|-------------------------|------------------------|--------------------|--------|
| CH | Frequency (MHz) | Data Rate | Peak Output Power (dBm) | Peak Output Power (mW) | Limit | RESULT |
| 1 | 2412 | 1 | 17.85 | 60.95 | 1 Watt = 30.00 dBm | PASS |
| 6 | 2437 | 1 | 17.53 | 56.62 | 1 Watt = 30.00 dBm | PASS |
| 11 | 2462 | 1 | 17.98 | 62.81 | 1 Watt = 30.00 dBm | PASS |

| 802.11b Main | | | | | | |
|--------------|-----------------|-----------|-------------------------|------------------------|--------------------|--------|
| CH | Frequency (MHz) | Data Rate | Avg. Output Power (dBm) | Avg. Output Power (mW) | Limit | RESULT |
| 1 | 2412 | 1 | 14.83 | 30.41 | 1 Watt = 30.00 dBm | PASS |
| 6 | 2437 | 1 | 14.87 | 30.69 | 1 Watt = 30.00 dBm | PASS |
| 11 | 2462 | 1 | 14.98 | 31.48 | 1 Watt = 30.00 dBm | PASS |

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802.11g Main

| CH | Frequency (MHz) | Data Rate | Peak Output Power (dBm) | Peak Output Power (mW) | Limit | RESULT |
|----|-----------------|-----------|-------------------------|------------------------|--------------------|--------|
| 1 | 2412 | 6 | 20.06 | 101.39 | 1 Watt = 30.00 dBm | PASS |
| 6 | 2437 | 6 | 21.19 | 131.52 | 1 Watt = 30.00 dBm | PASS |
| 11 | 2462 | 6 | 21.01 | 126.18 | 1 Watt = 30.00 dBm | PASS |

802.11g Main

| CH | Frequency (MHz) | Data Rate | Avg. Output Power (dBm) | Avg. Output Power (mW) | Limit | RESULT |
|----|-----------------|-----------|-------------------------|------------------------|--------------------|--------|
| 1 | 2412 | 6 | 11.31 | 13.52 | 1 Watt = 30.00 dBm | PASS |
| 6 | 2437 | 6 | 12.9 | 19.50 | 1 Watt = 30.00 dBm | PASS |
| 11 | 2462 | 6 | 12.23 | 16.71 | 1 Watt = 30.00 dBm | PASS |

802.11n_HT20M Main

| CH | Frequency (MHz) | Data Rate | Peak Output Power (dBm) | Peak Output Power (mW) | Limit | RESULT |
|----|-----------------|-----------|-------------------------|------------------------|--------------------|--------|
| 1 | 2412 | MCS0 | 20.46 | 111.17 | 1 Watt = 30.00 dBm | PASS |
| 6 | 2437 | MCS0 | 20.64 | 115.88 | 1 Watt = 30.00 dBm | PASS |
| 11 | 2462 | MCS0 | 20.94 | 124.17 | 1 Watt = 30.00 dBm | PASS |

802.11n_HT20M Main

| CH | Frequency (MHz) | Data Rate | Avg. Output Power (dBm) | Avg. Output Power (mW) | Limit | RESULT |
|----|-----------------|-----------|-------------------------|------------------------|--------------------|--------|
| 1 | 2412 | MCS0 | 11.87 | 15.38 | 1 Watt = 30.00 dBm | PASS |
| 6 | 2437 | MCS0 | 11.97 | 15.74 | 1 Watt = 30.00 dBm | PASS |
| 11 | 2462 | MCS0 | 11.92 | 15.56 | 1 Watt = 30.00 dBm | PASS |

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802.11n_HT40M Main

| CH | Frequency (MHz) | Data Rate | Peak Output Power (dBm) | Peak Output Power (mW) | Limit | RESULT |
|----|-----------------|-----------|-------------------------|------------------------|--------------------|--------|
| 3 | 2422 | MCS0 | 20.08 | 101.86 | 1 Watt = 30.00 dBm | PASS |
| 6 | 2437 | MCS0 | 21.15 | 130.32 | 1 Watt = 30.00 dBm | PASS |
| 9 | 2452 | MCS0 | 21.21 | 132.13 | 1 Watt = 30.00 dBm | PASS |

802.11n_HT40M Main

| CH | Frequency (MHz) | Data Rate | Avg. Output Power (dBm) | Avg. Output Power (mW) | Limit | RESULT |
|----|-----------------|-----------|-------------------------|------------------------|--------------------|--------|
| 3 | 2422 | MCS0 | 10.07 | 10.16 | 1 Watt = 30.00 dBm | PASS |
| 6 | 2437 | MCS0 | 11.61 | 14.49 | 1 Watt = 30.00 dBm | PASS |
| 9 | 2452 | MCS0 | 11.7 | 14.79 | 1 Watt = 30.00 dBm | PASS |

Note:

offset 10.70 dB

*** Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.**

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9 6DB BANDWIDTH MEASUREMENT

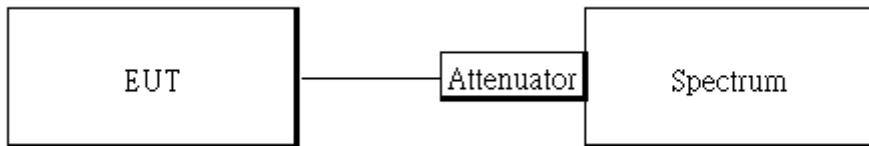
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

9.3 Test Set-up



9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. For 6dB Bandwidth:
Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 30M/50MHz, Detector=peak, Sweep=auto.
5. Mark the peak frequency and –6dB (upper and lower) frequency.
6. For 99% Bandwidth:
Set the spectrum analyzer as RBW=1%, VBW = 3*RBW, Span = 30M/50MHz, Detector=Sample, Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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9.5 Measurement Result

802.11b Main

| Frequency (MHz) | 6dB Bandwidth (kHz) | Limit (kHz) | Result |
|-----------------|---------------------|-------------|--------|
| 2412 | 7593 | > 500 | PASS |
| 2437 | 7594 | > 500 | PASS |
| 2462 | 7599 | > 500 | PASS |

802.11g Main

| Frequency (MHz) | 6dB Bandwidth (kHz) | Limit (kHz) | Result |
|-----------------|---------------------|-------------|--------|
| 2412 | 16390 | > 500 | PASS |
| 2437 | 16370 | > 500 | PASS |
| 2462 | 16340 | > 500 | PASS |

802.11_n_HT20 Main

| Frequency (MHz) | 6dB Bandwidth (kHz) | Limit (kHz) | Result |
|-----------------|---------------------|-------------|--------|
| 2412 | 17580 | > 500 | PASS |
| 2437 | 17600 | > 500 | PASS |
| 2462 | 17210 | > 500 | PASS |

802.11_n_HT40 Main

| Frequency (MHz) | 6dB Bandwidth (kHz) | Limit (kHz) | Result |
|-----------------|---------------------|-------------|--------|
| 2422 | 35160 | > 500 | PASS |
| 2437 | 35500 | > 500 | PASS |
| 2452 | 35170 | > 500 | PASS |

*Refer to next page for plots

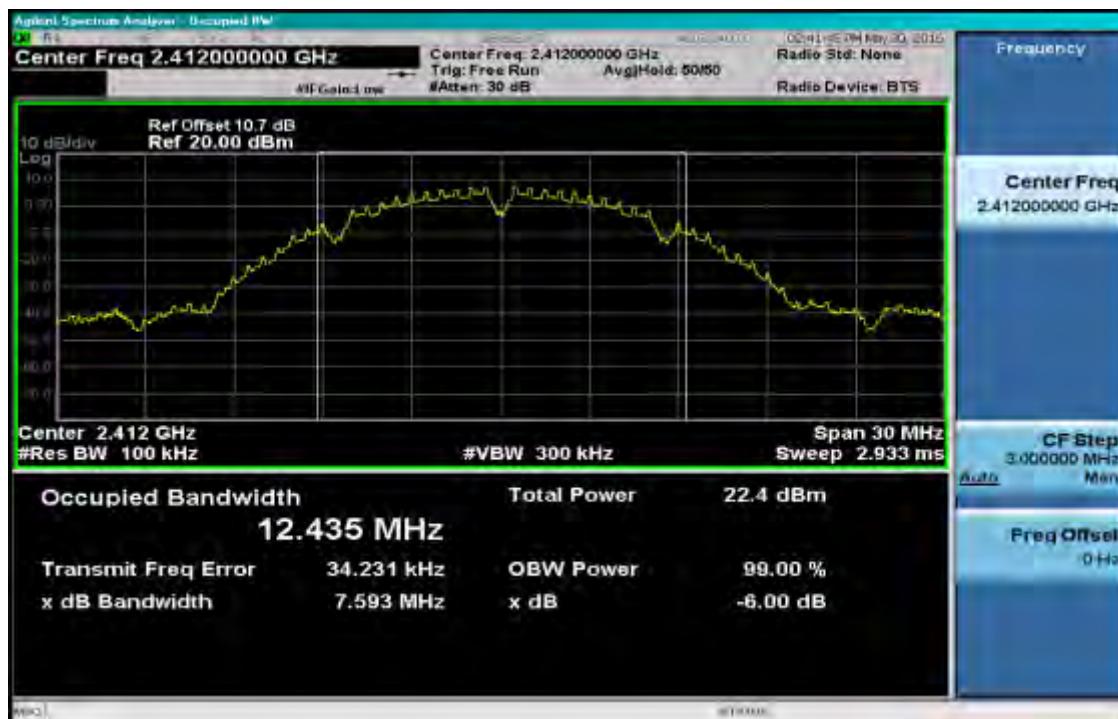
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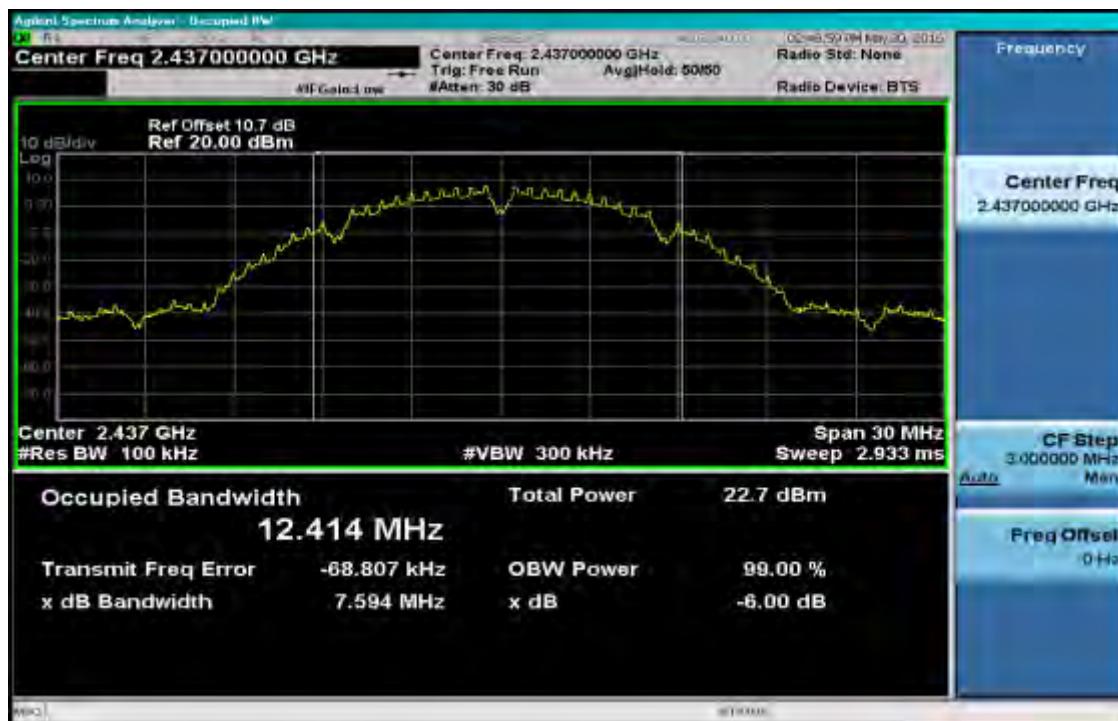
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802.11b

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

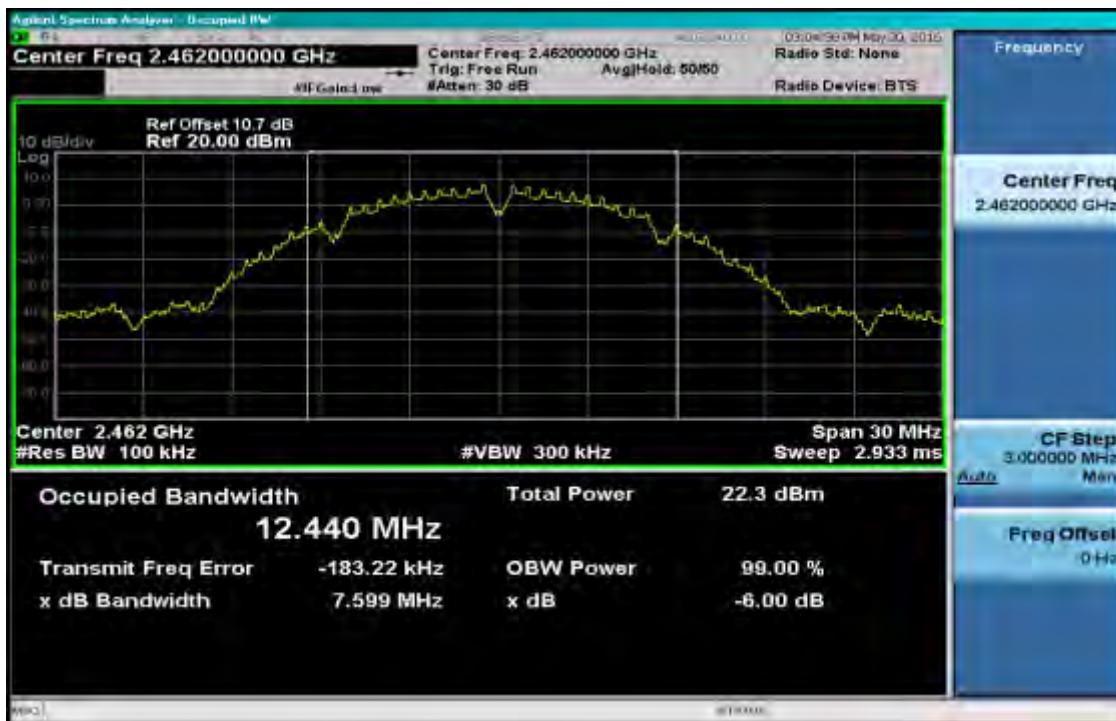


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6dB Band Width Test Data CH-High



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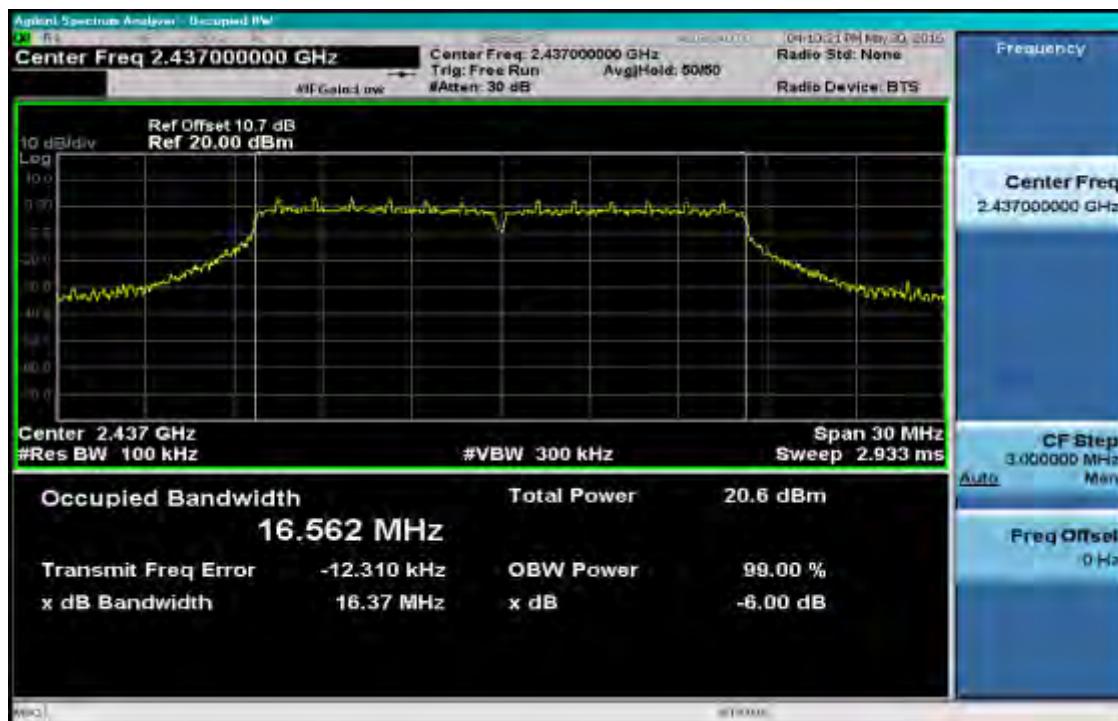
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802.11g

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



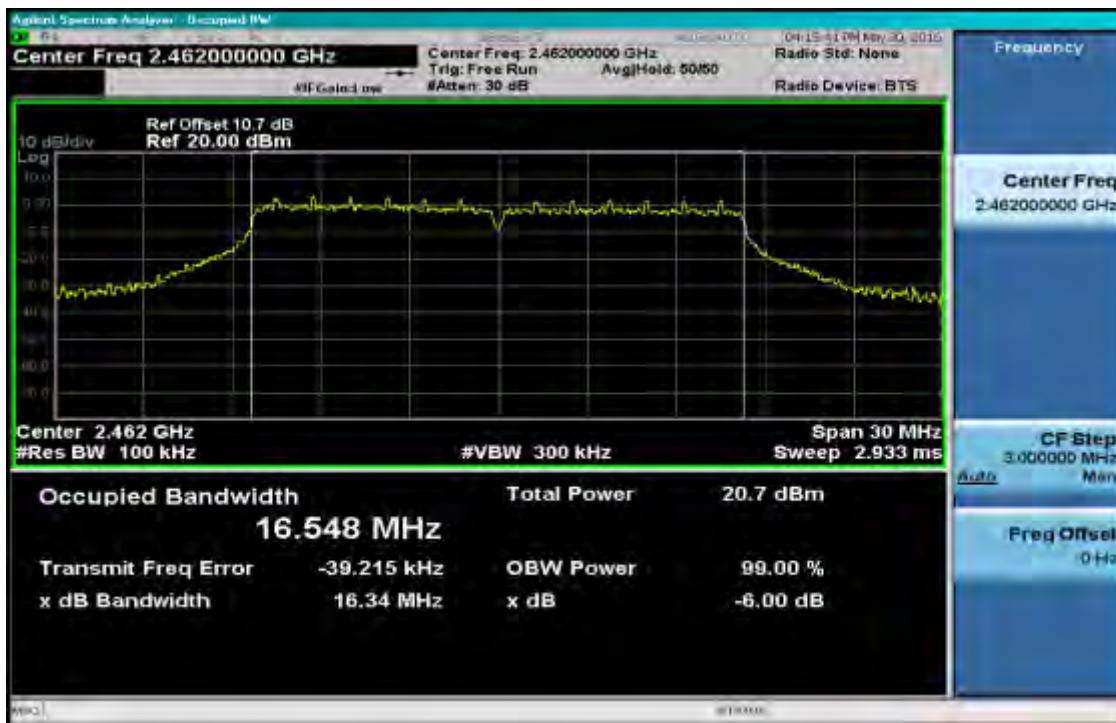
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6dB Band Width Test Data CH-High



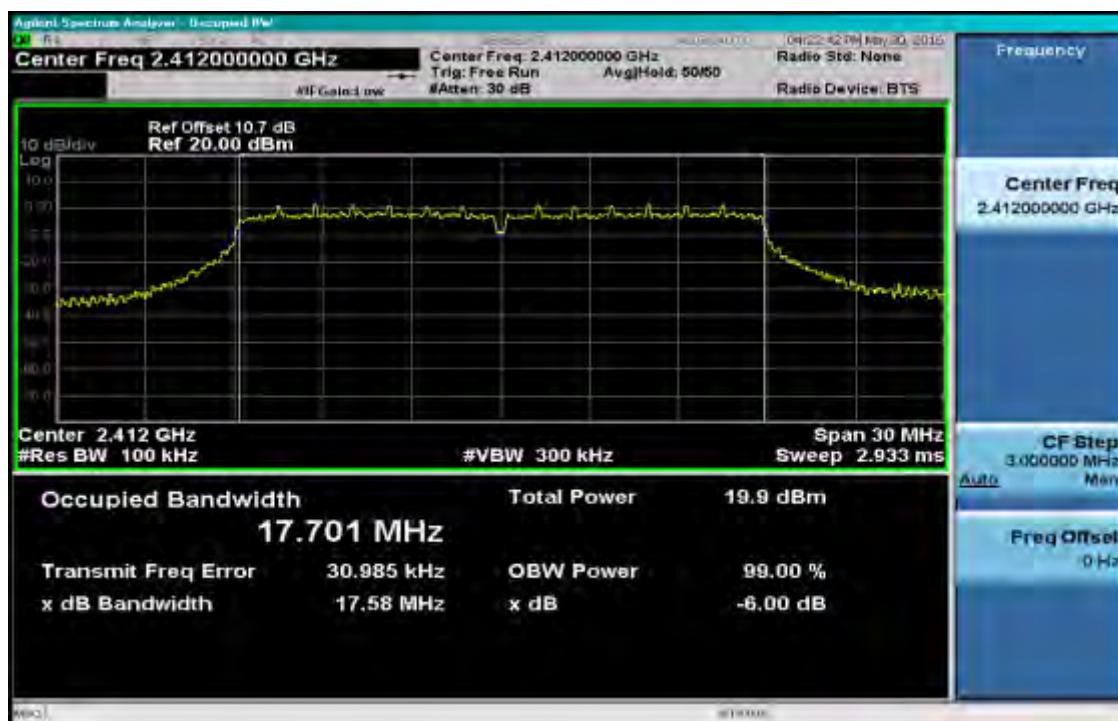
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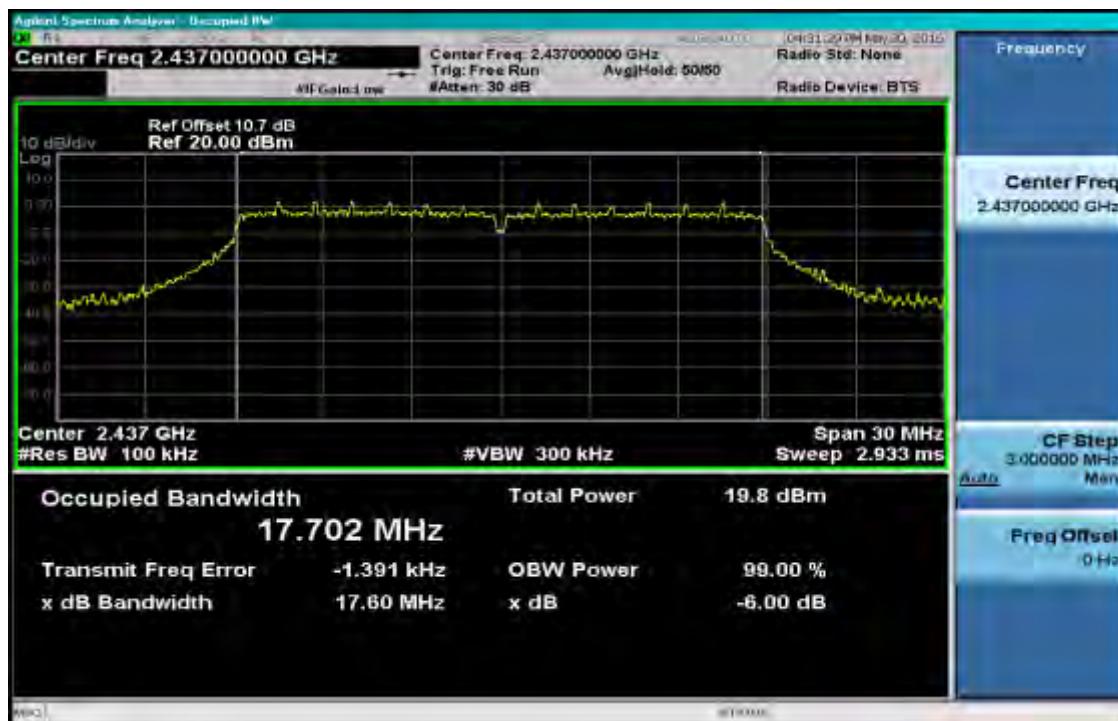
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802.11n_HT20M

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



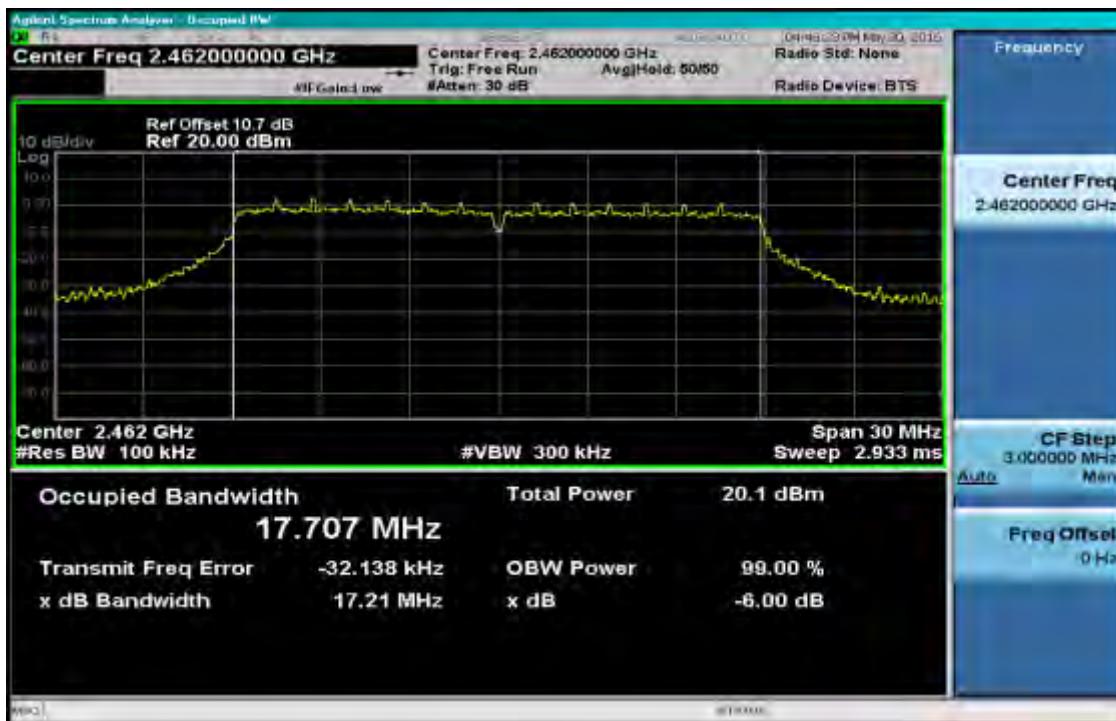
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6dB Band Width Test Data CH-High



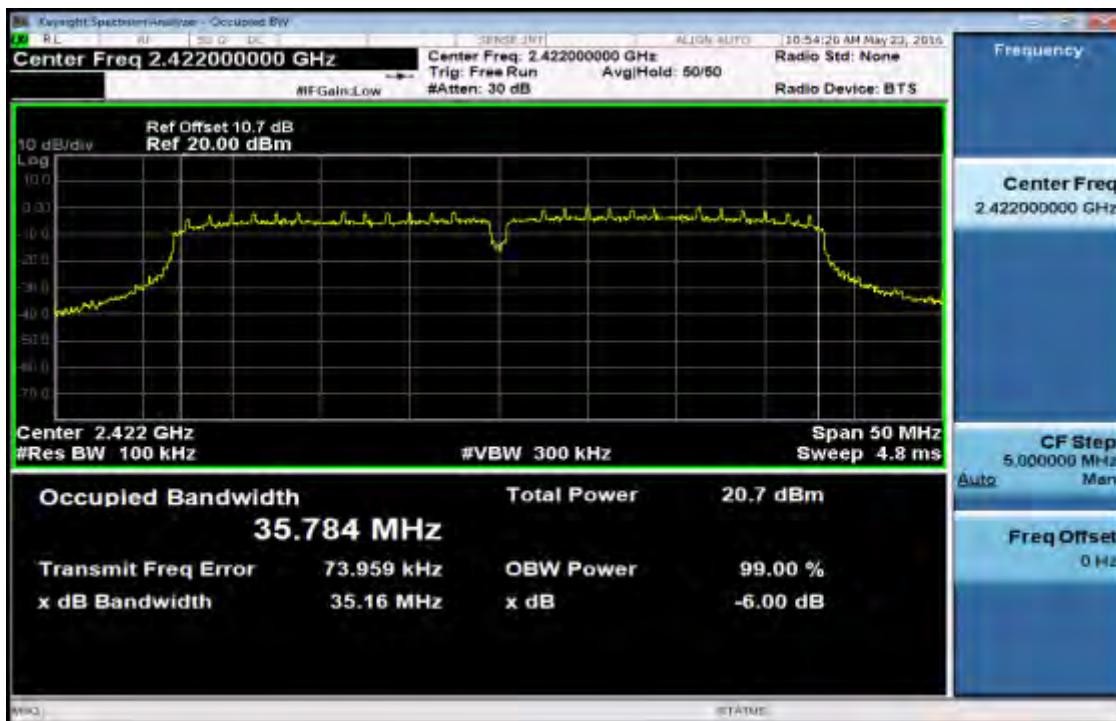
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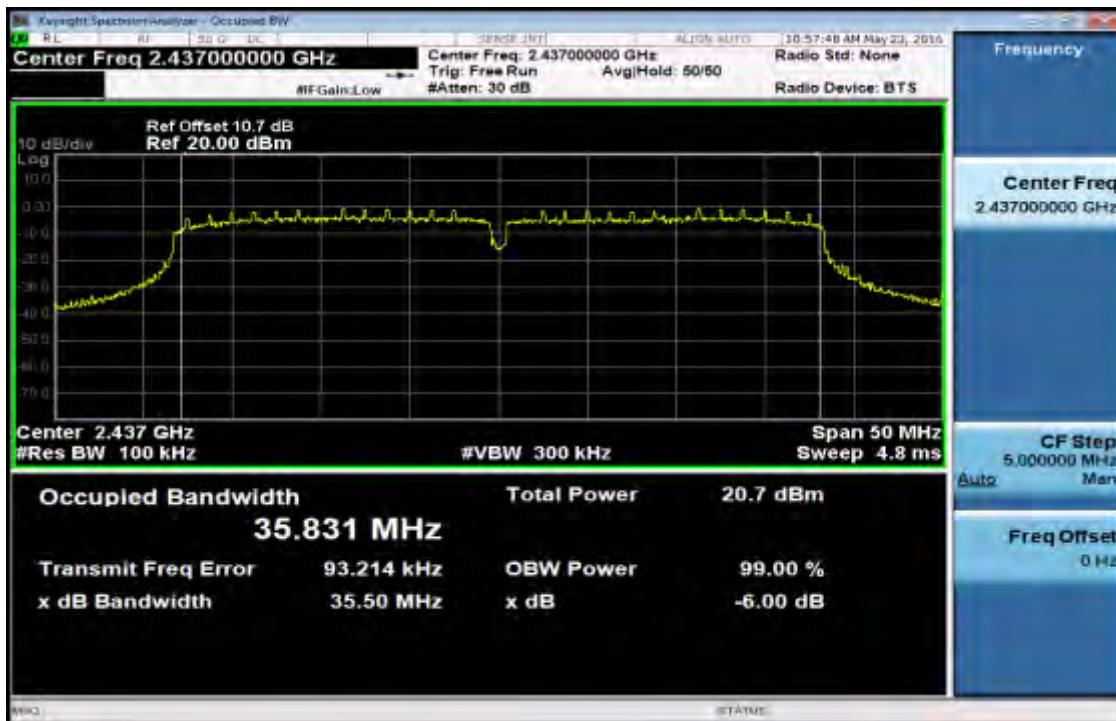
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802.11n_HT40M

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid



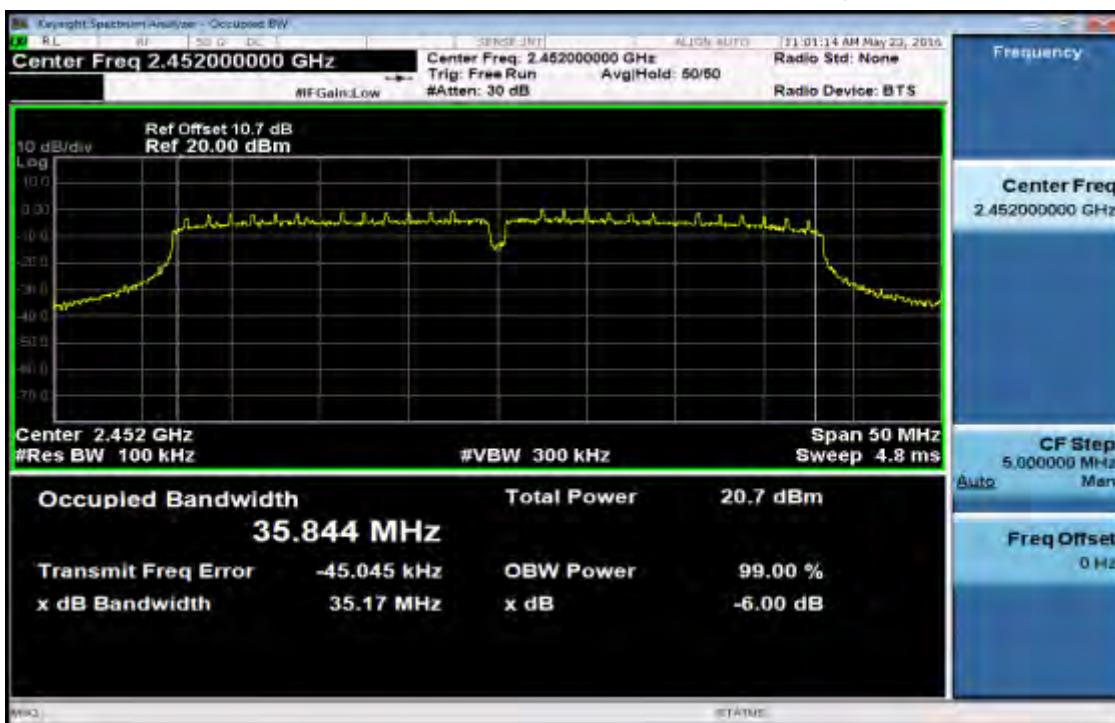
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6dB Band Width Test Data CH-High



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

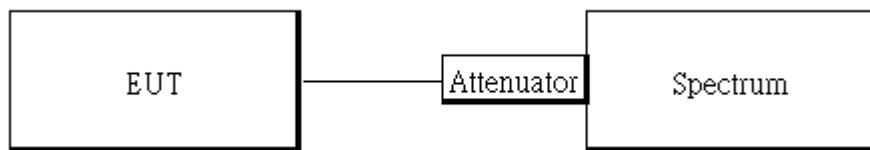
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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. 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).

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.

10.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| DC Block | PASTERNACK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

10.3 Test SET-UP



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10.4 Measurement Procedure

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker 1 – 20dBm
8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

10.5 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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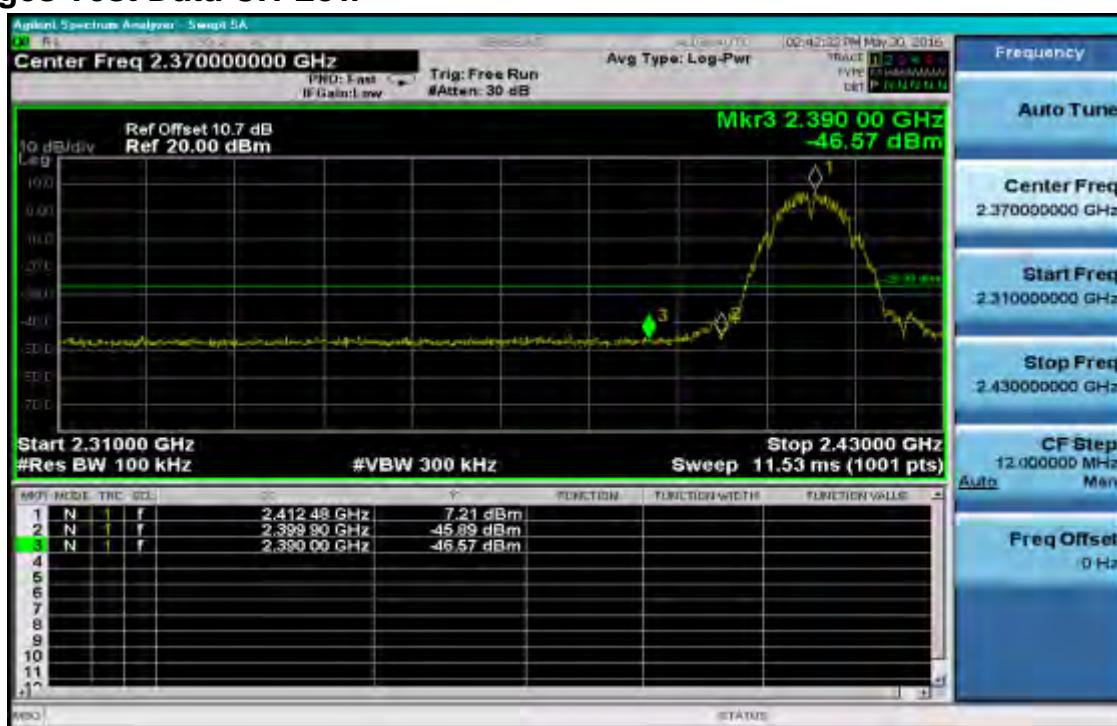
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802.11b

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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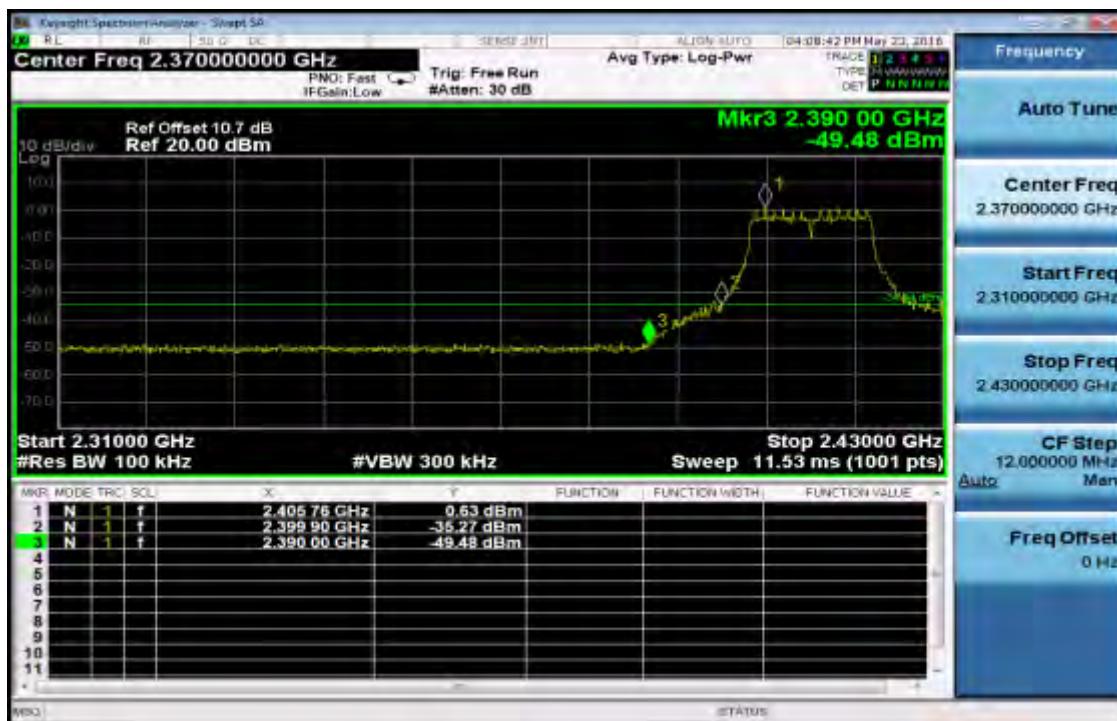
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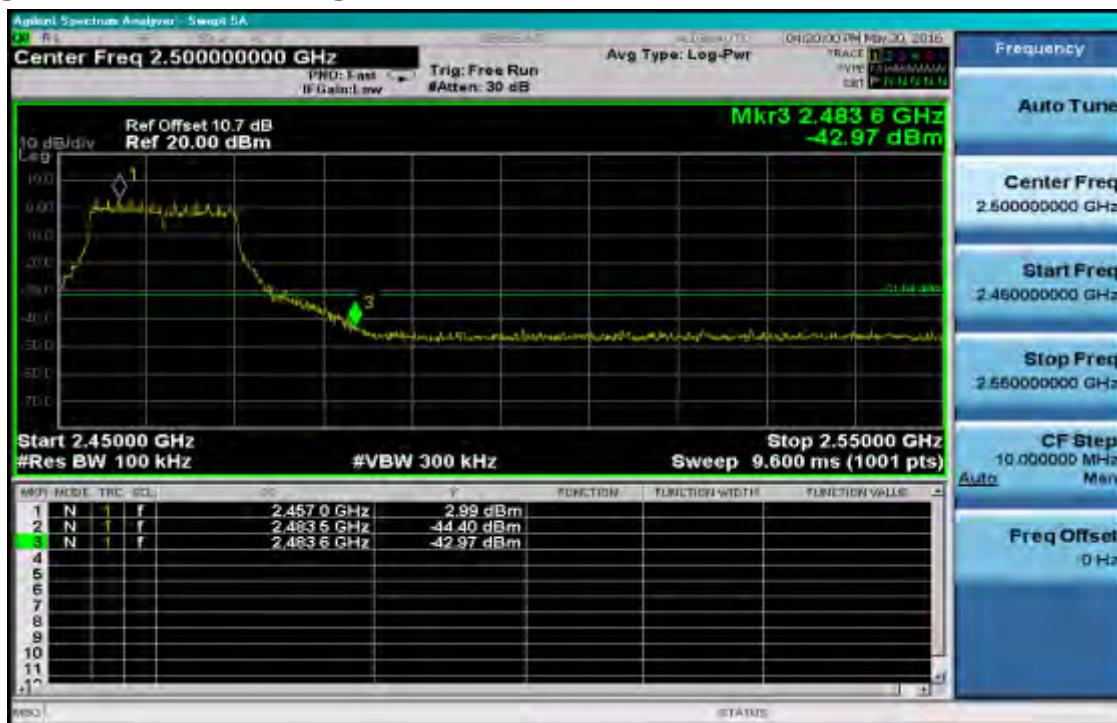
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802.11g

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



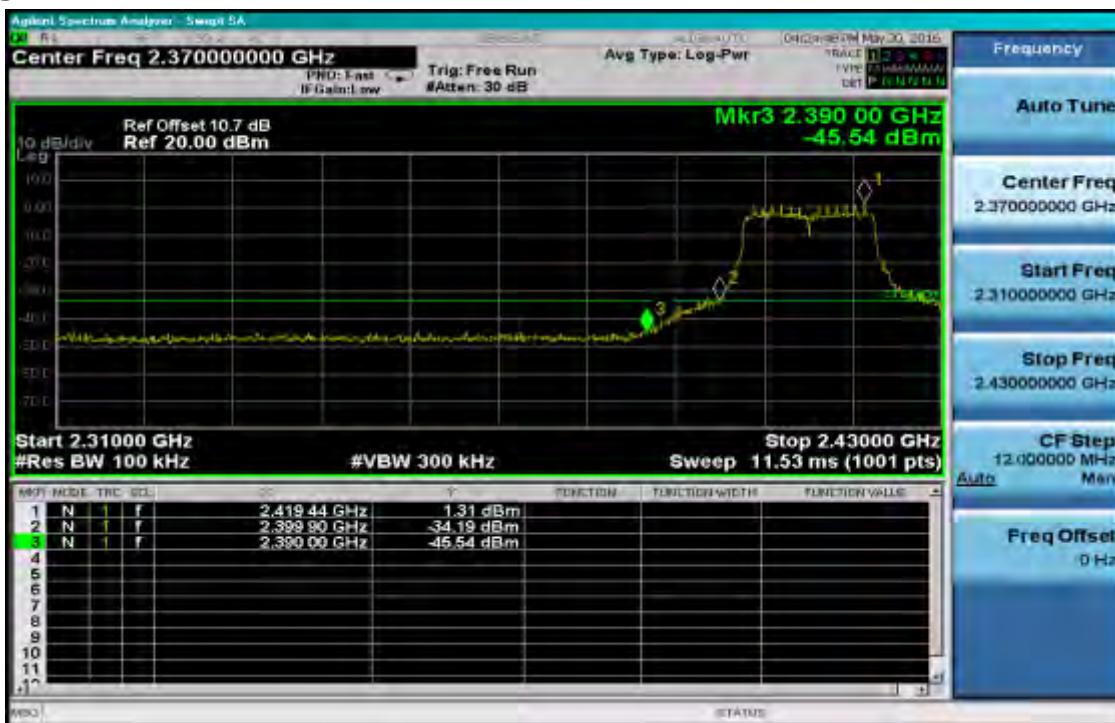
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802.11n_HT20

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



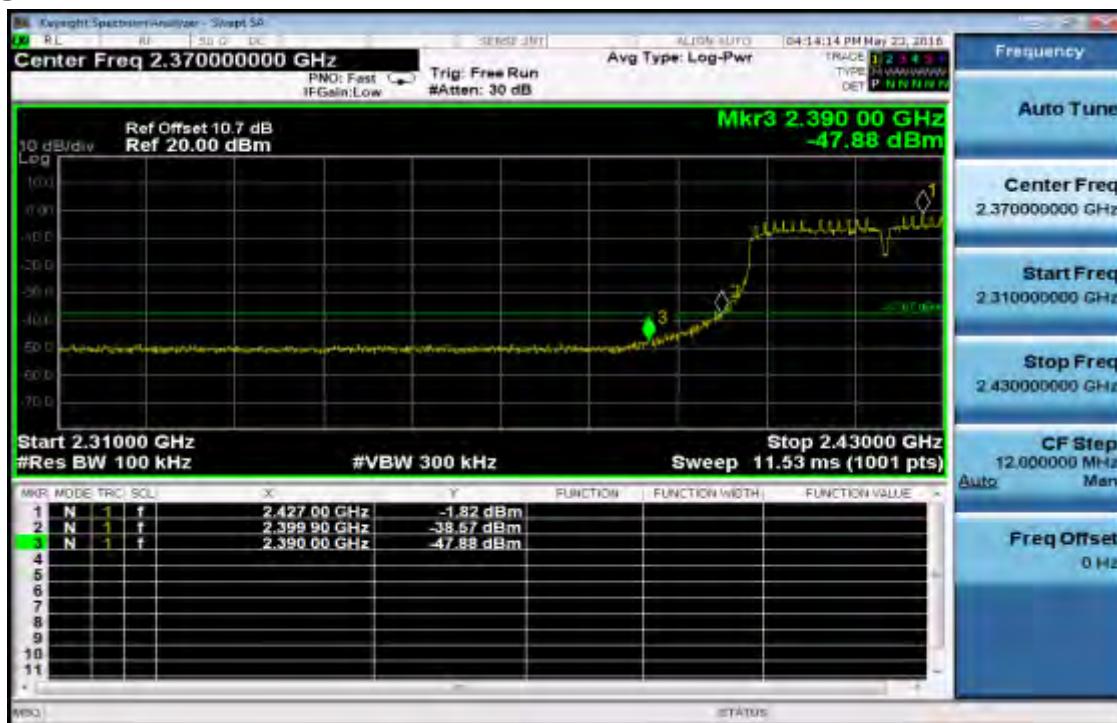
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802.11n_HT40

Band Edges Test Data CH-Low



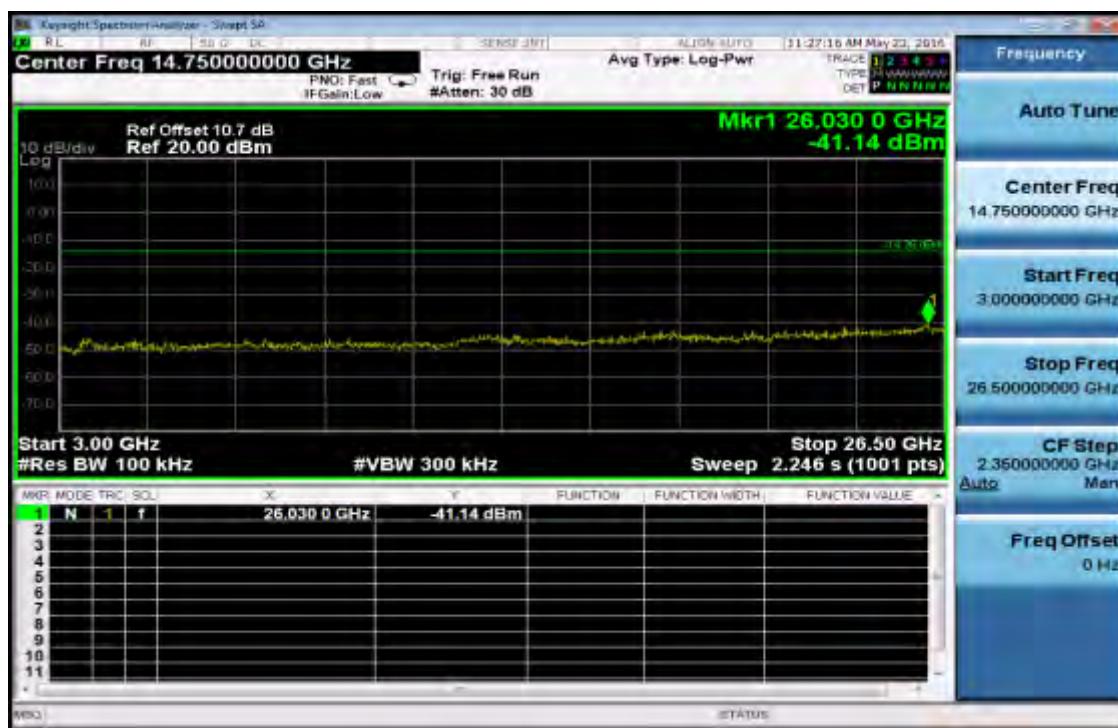
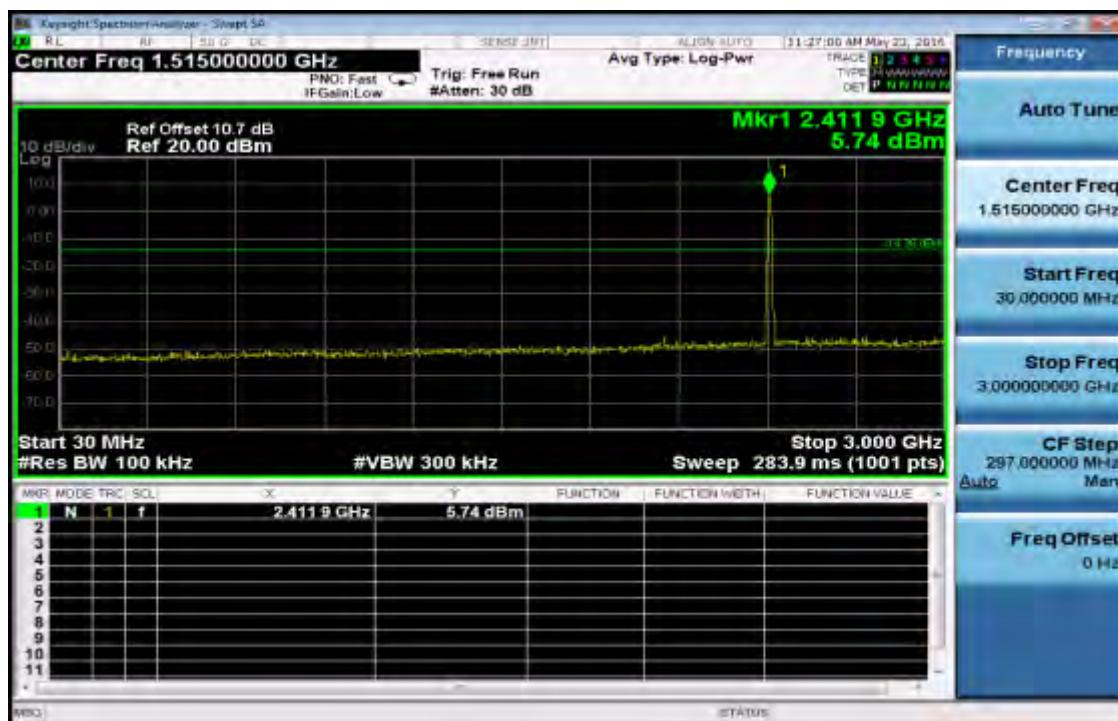
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802.11b

Spurious Emission Test Data CH-Low



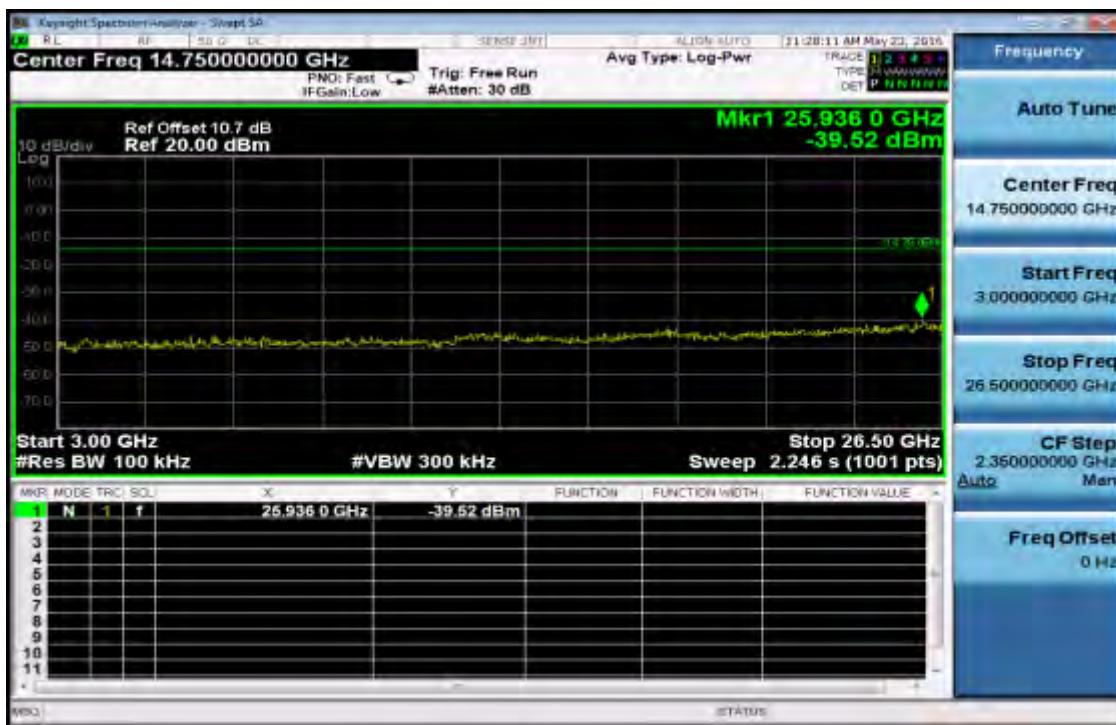
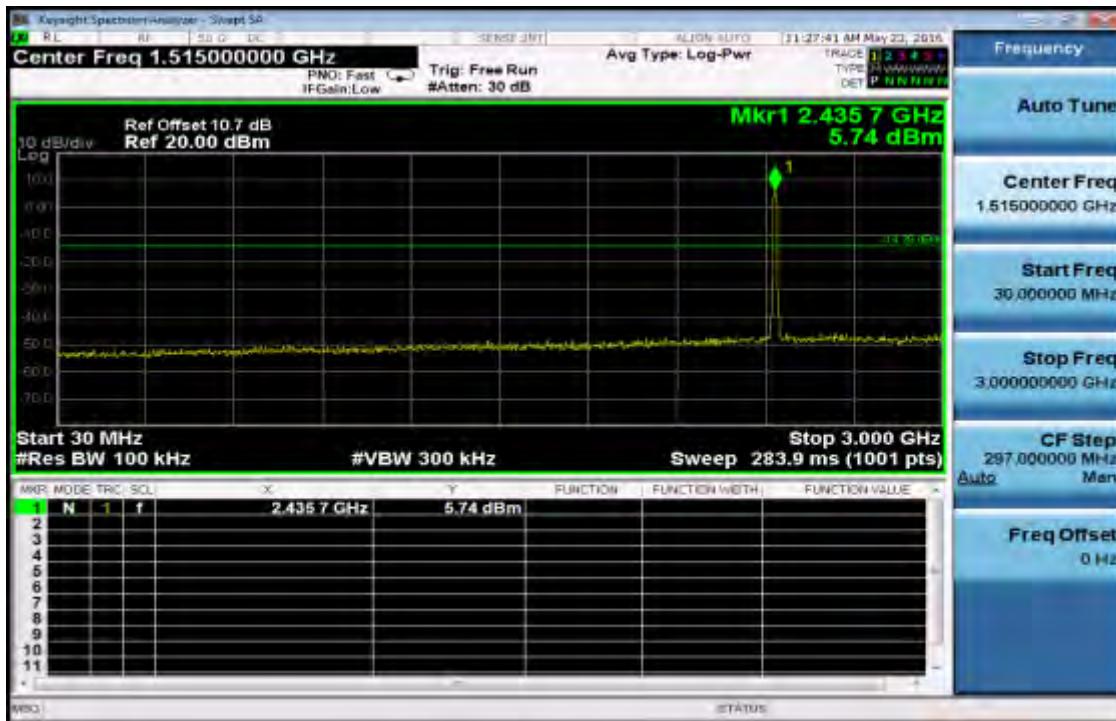
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Spurious Emission Test Data CH-Mid

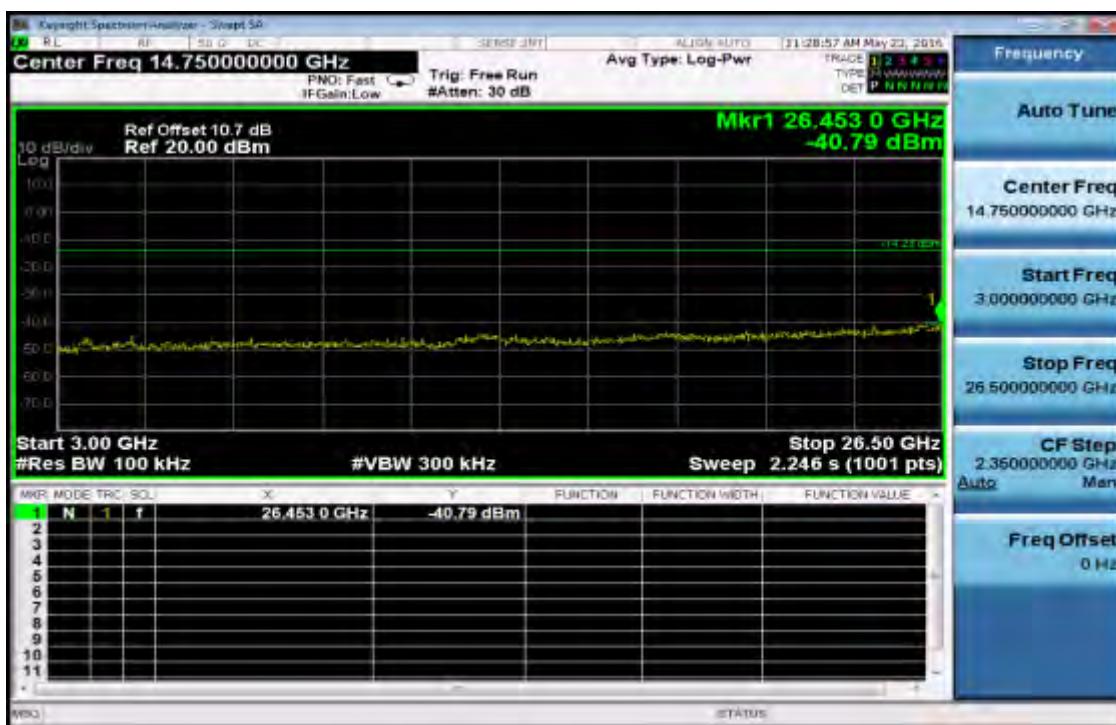
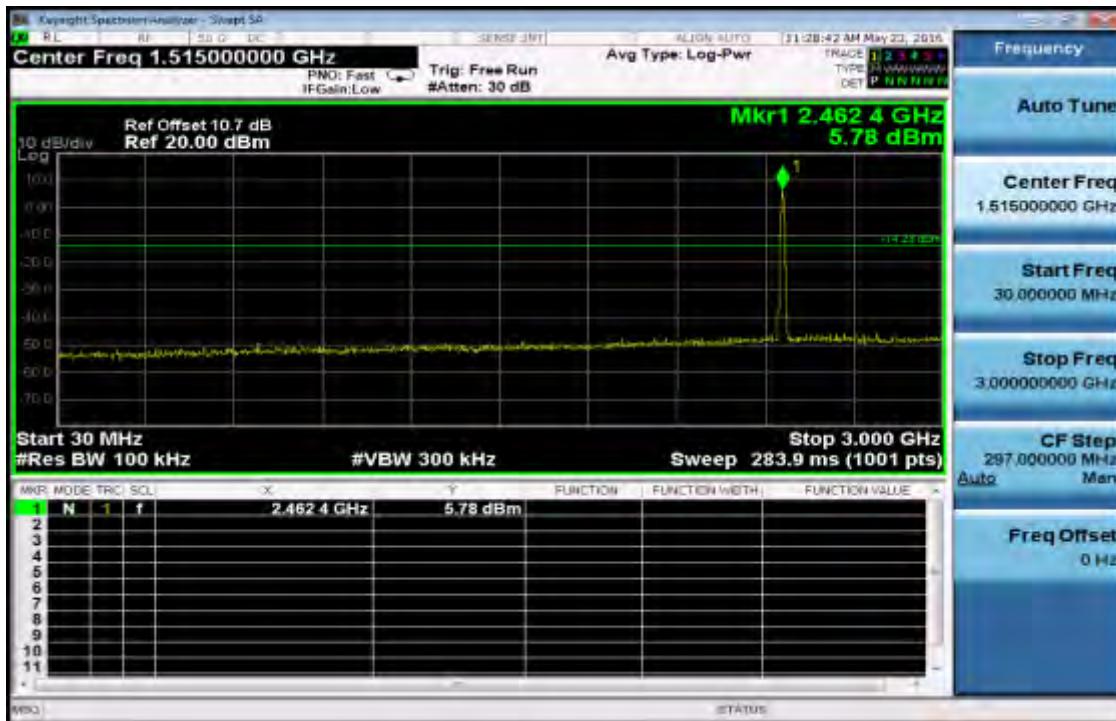


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Spurious Emission Test Data CH-High



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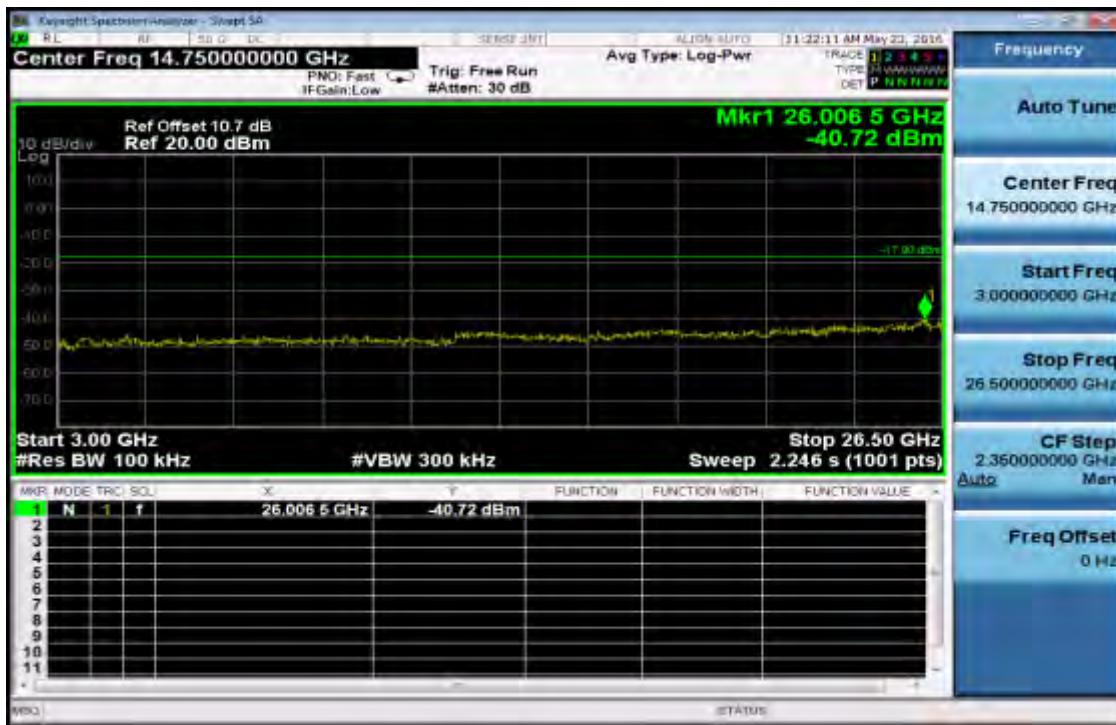
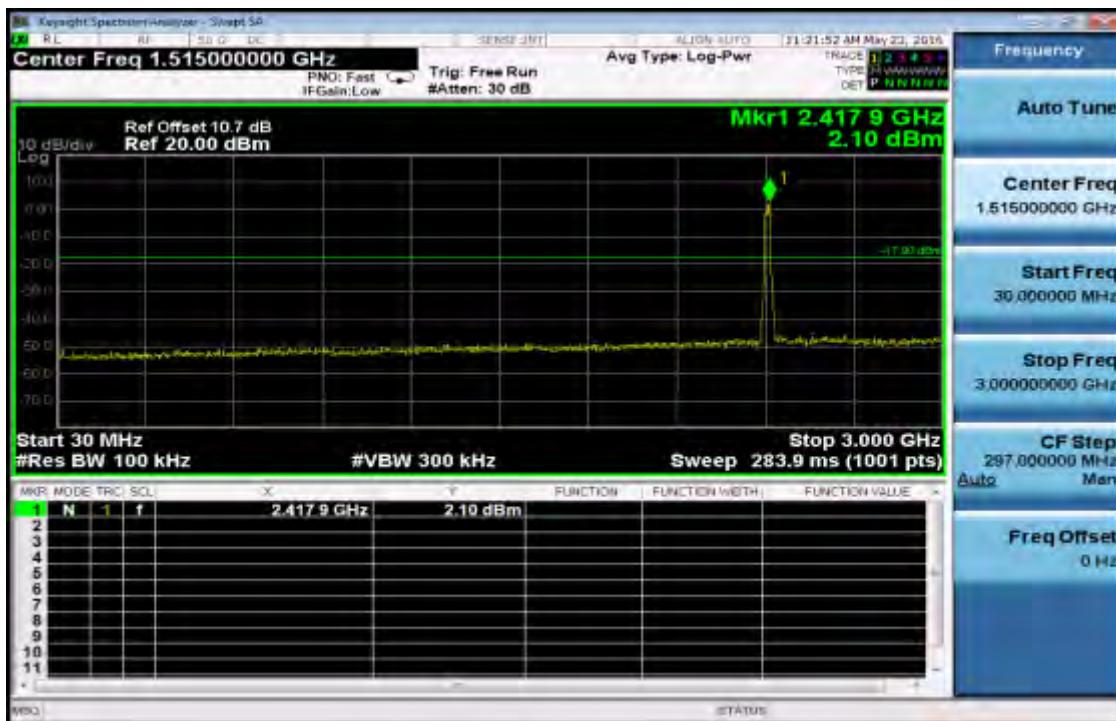
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802.11g

Spurious Emission Test Data CH-Low



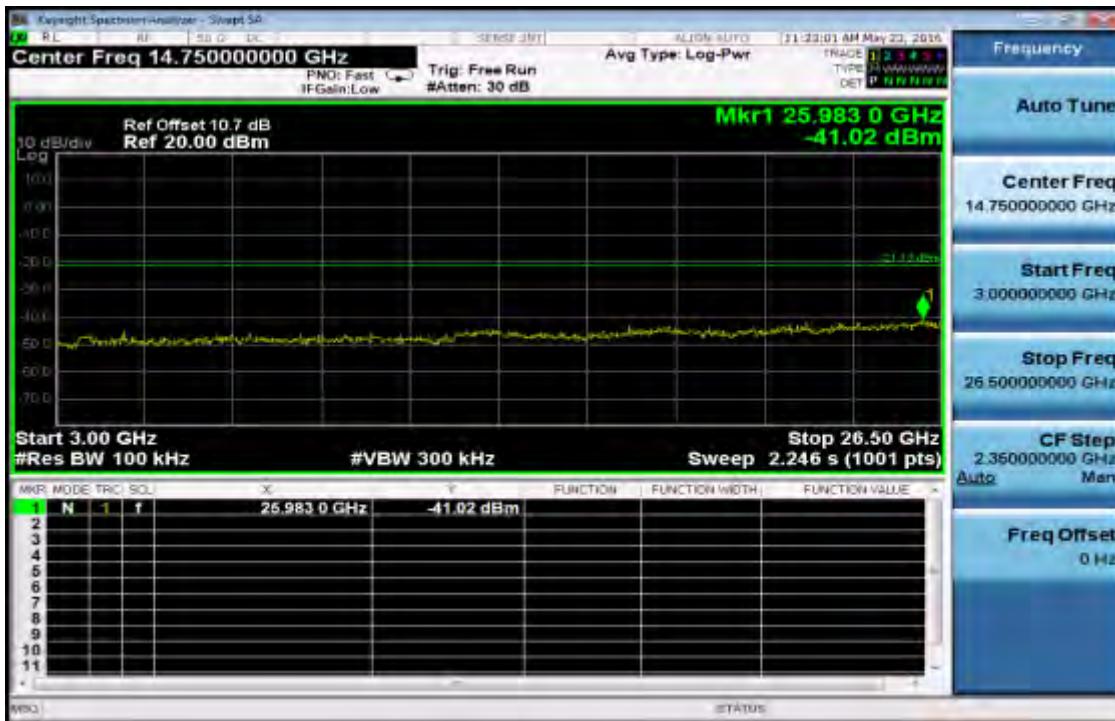
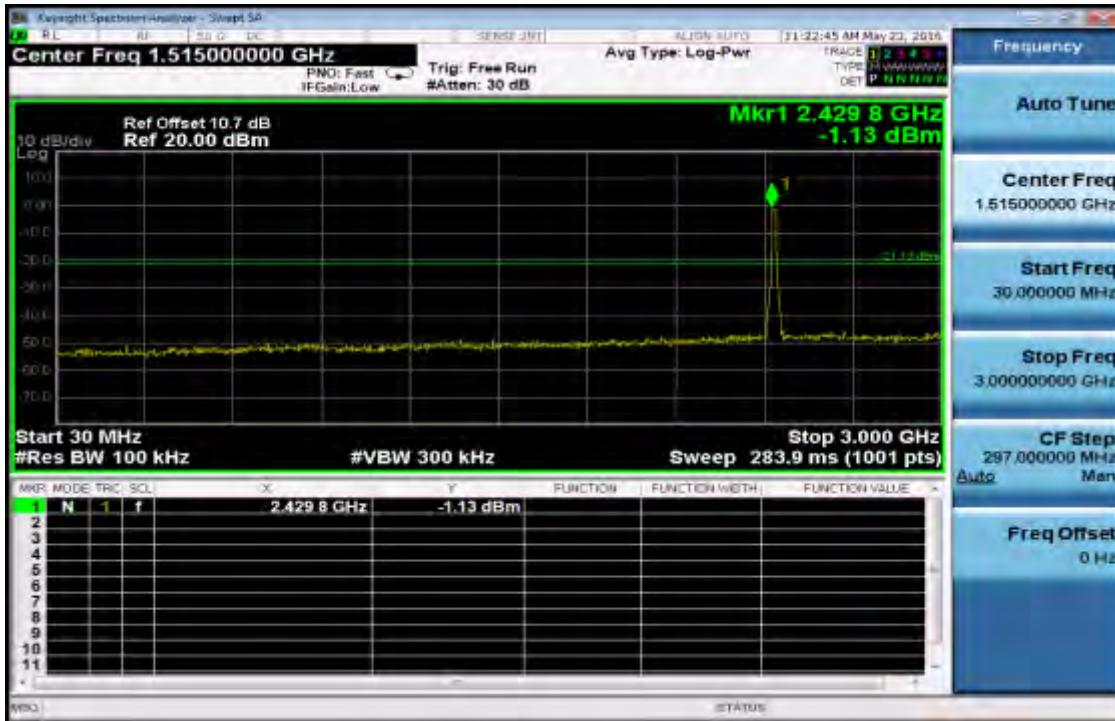
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Spurious Emission Test Data CH-Mid

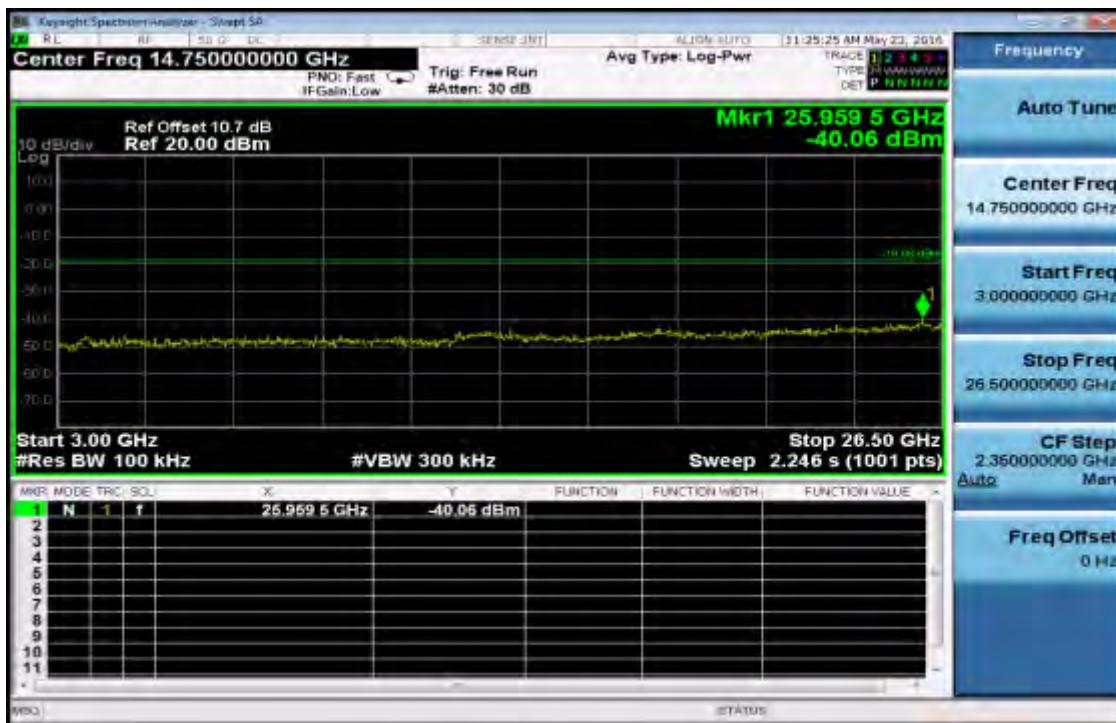
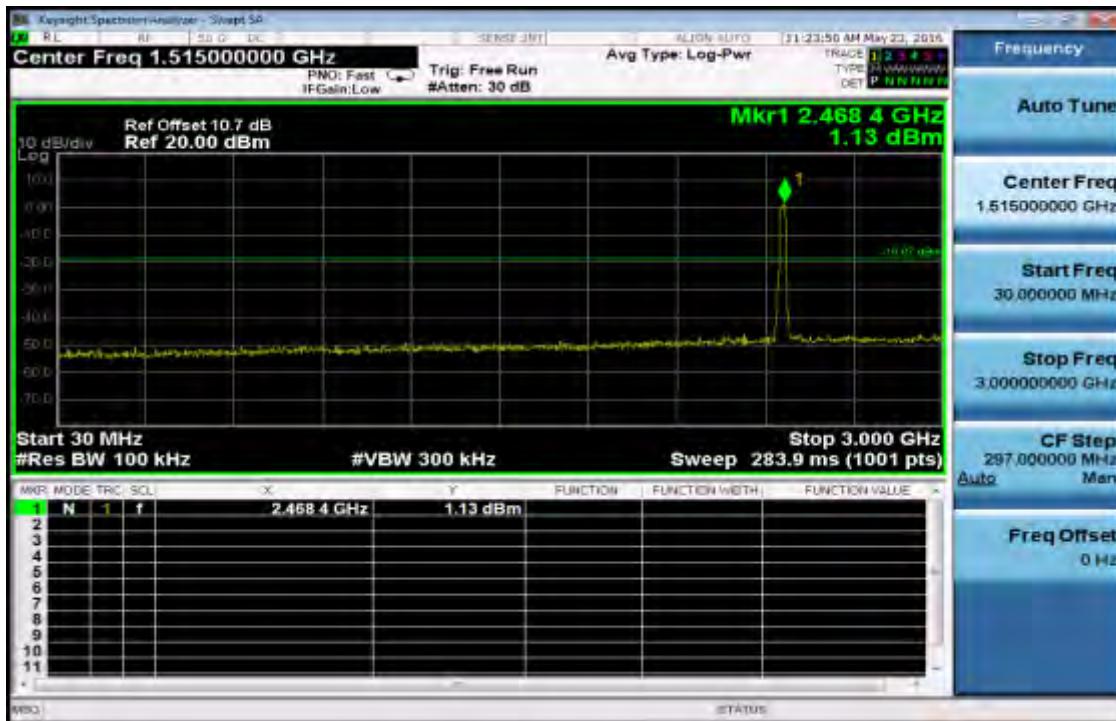


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Spurious Emission Test Data CH-High



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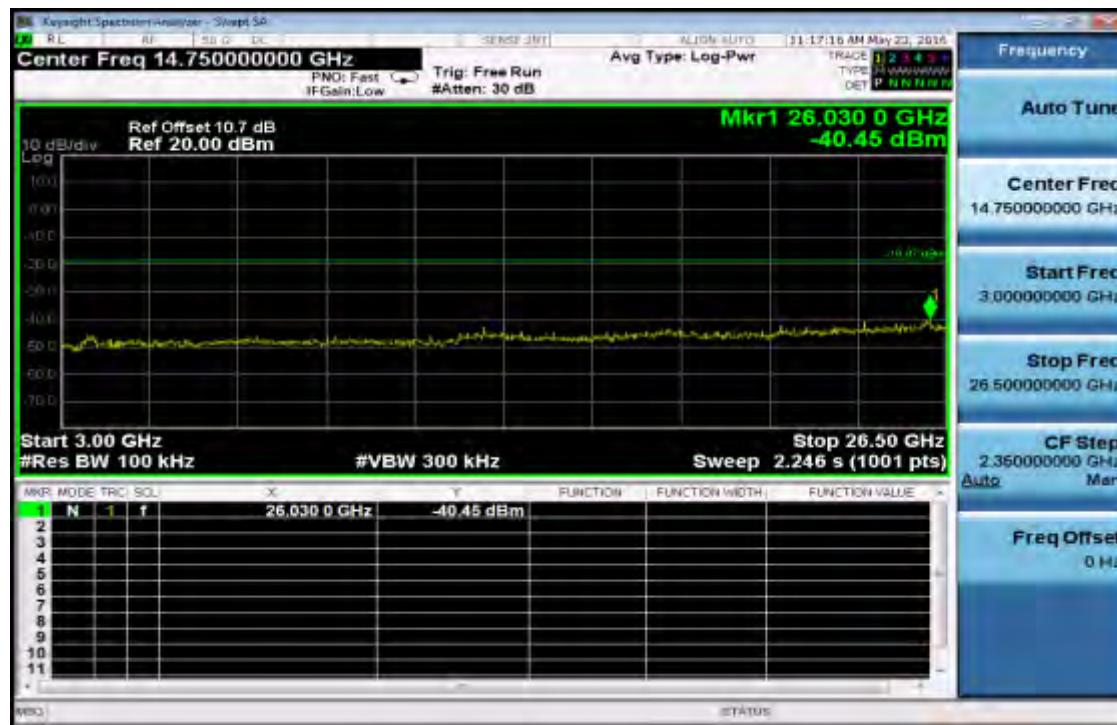
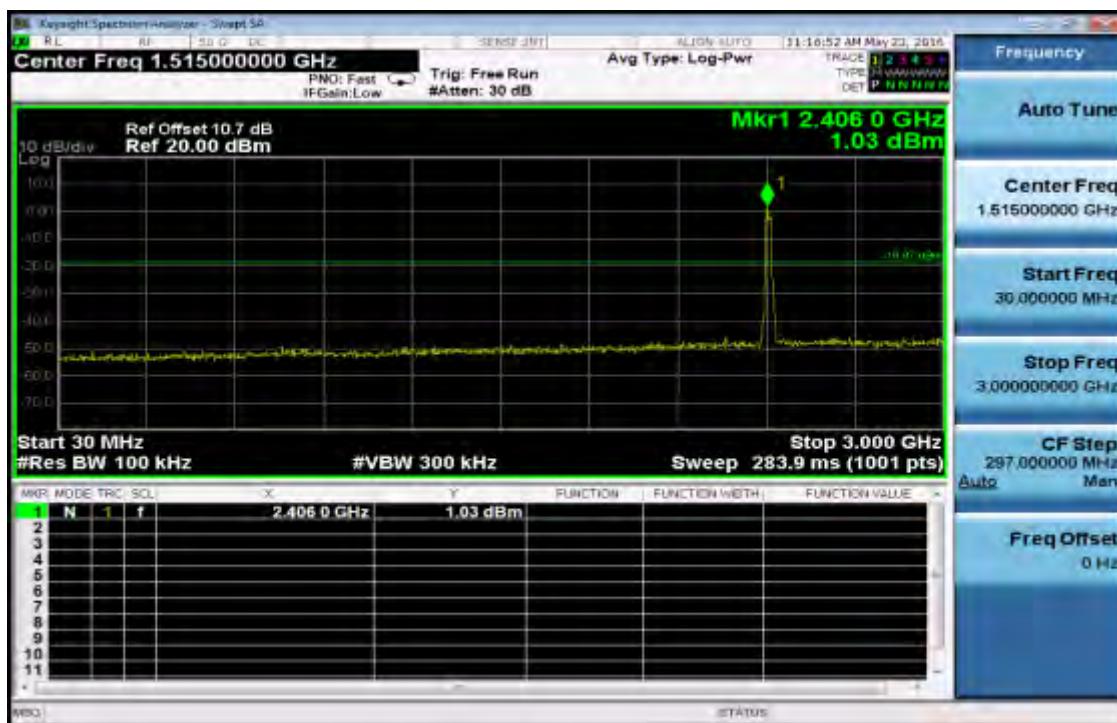
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802.11n_HT20

Spurious Emission Test Data CH-Low

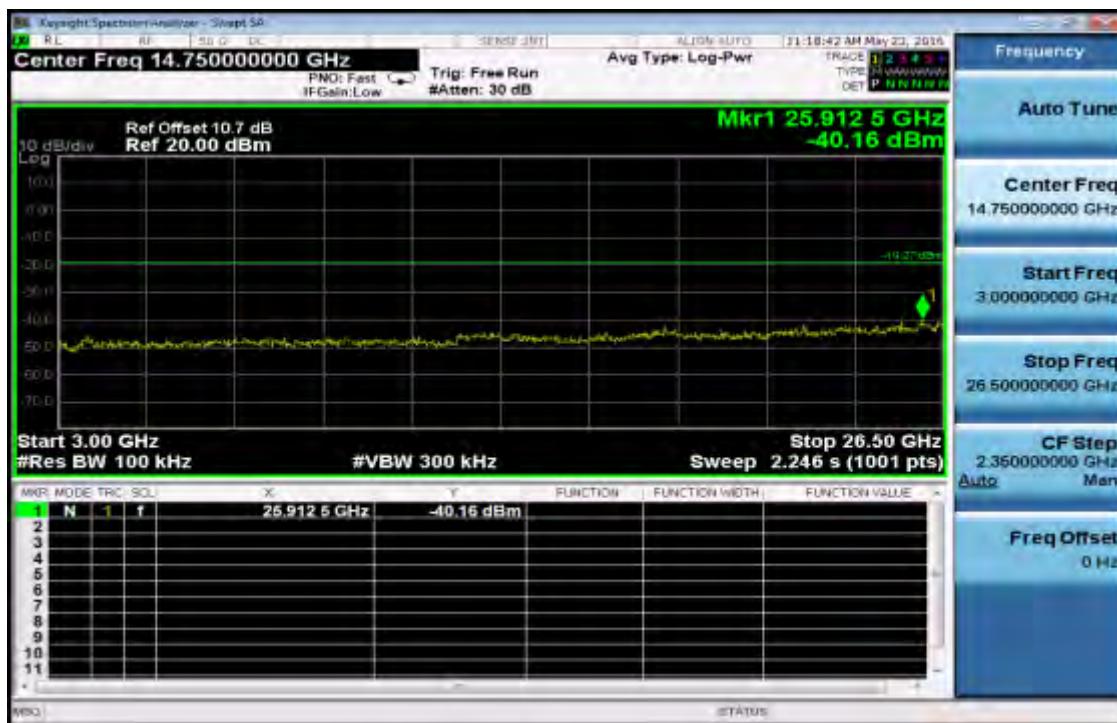
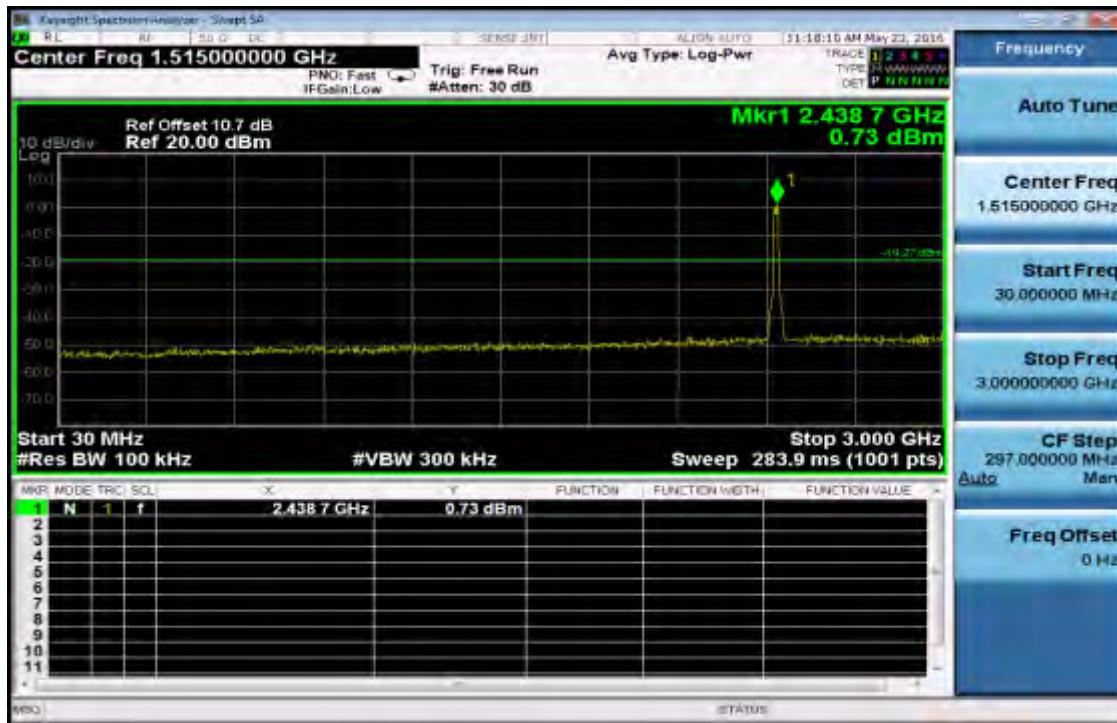


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Spurious Emission Test Data CH-Mid

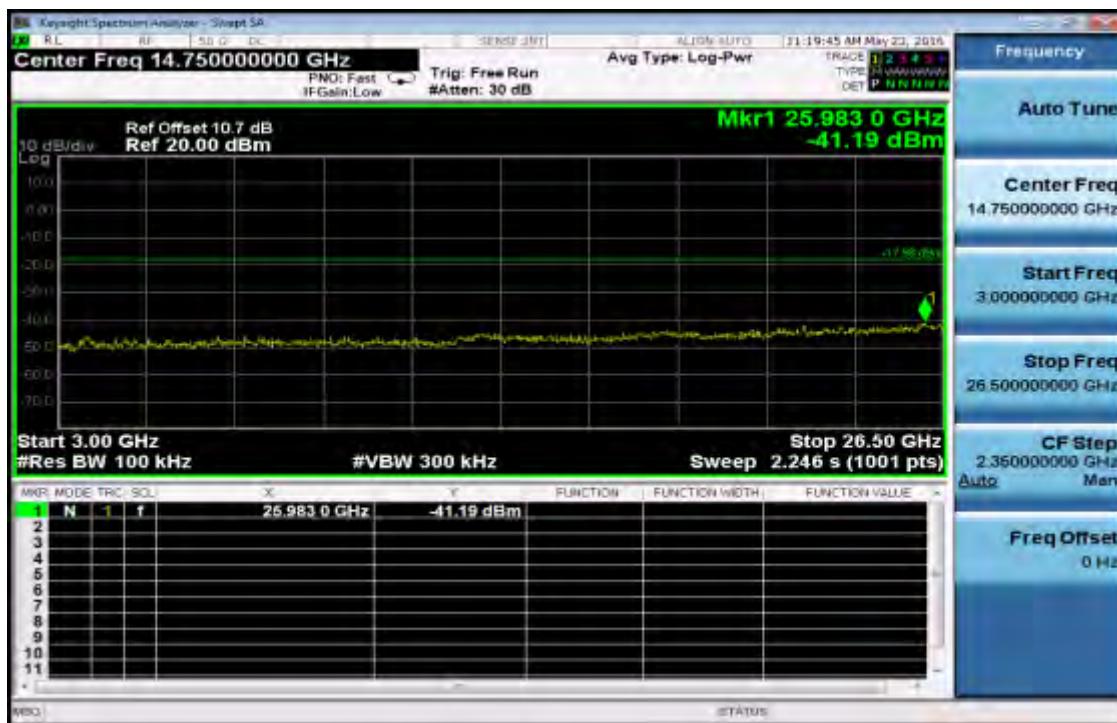
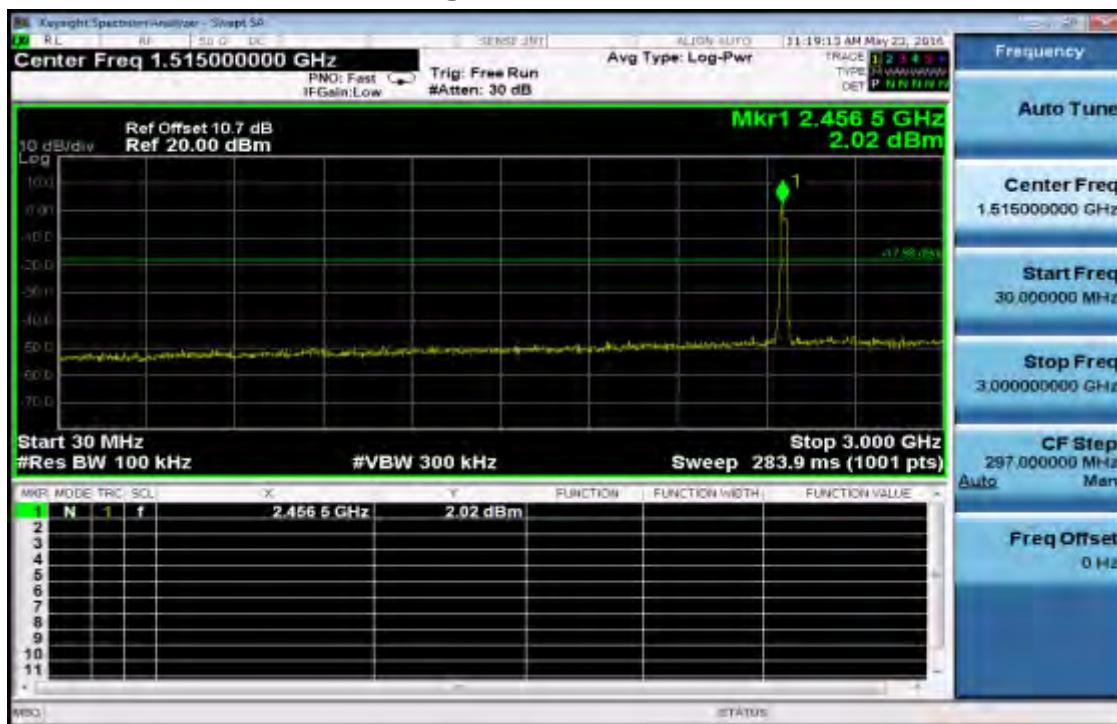


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Spurious Emission Test Data CH-High



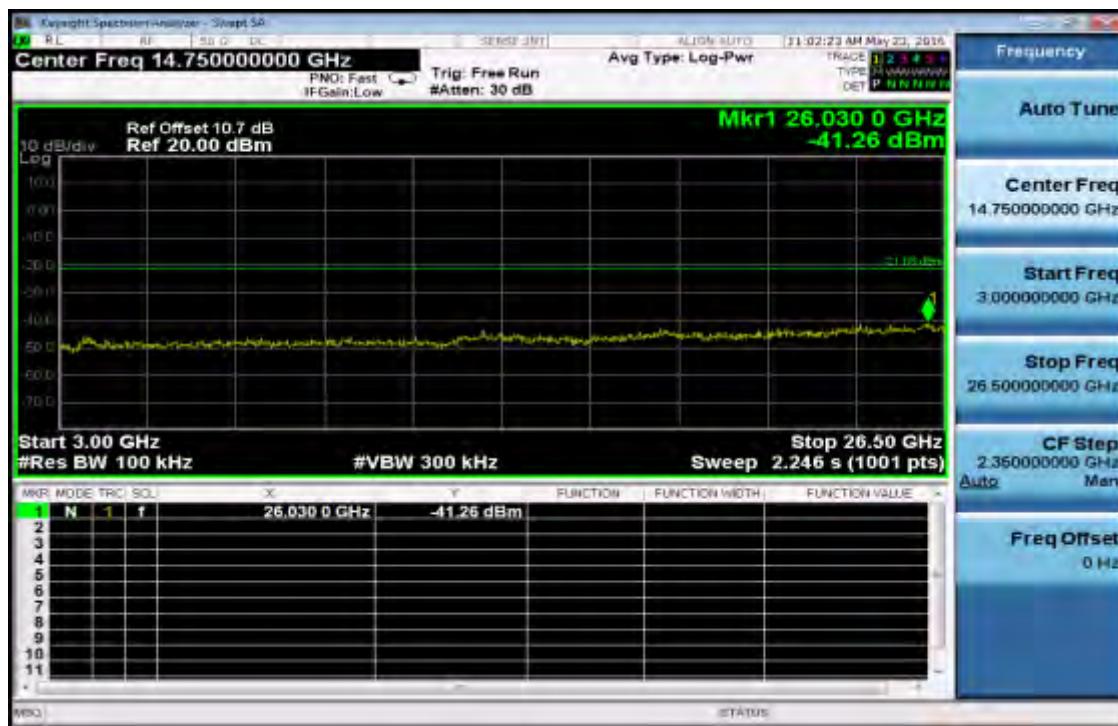
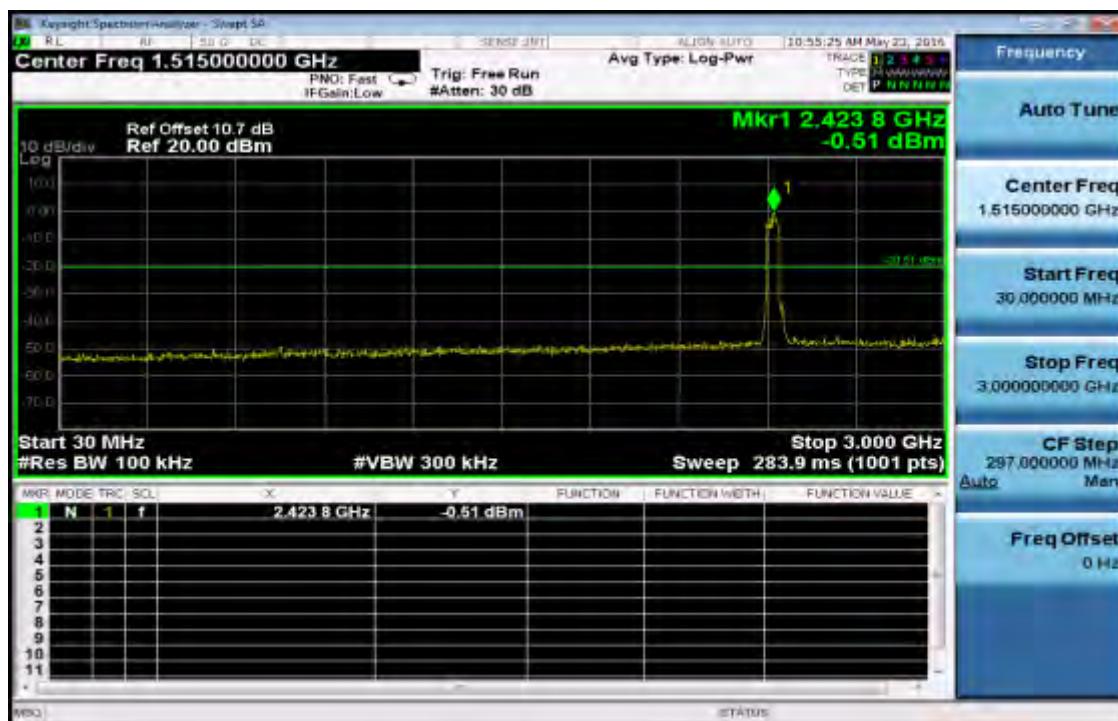
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802.11n_HT40

Spurious Emission Test Data CH-Low

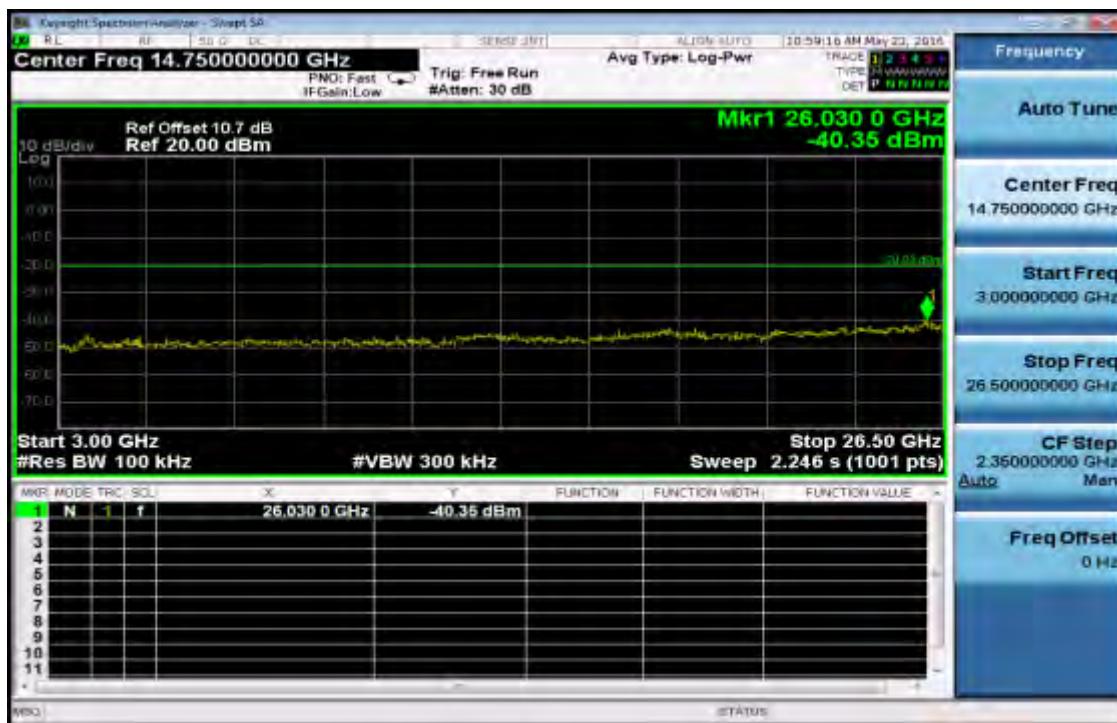
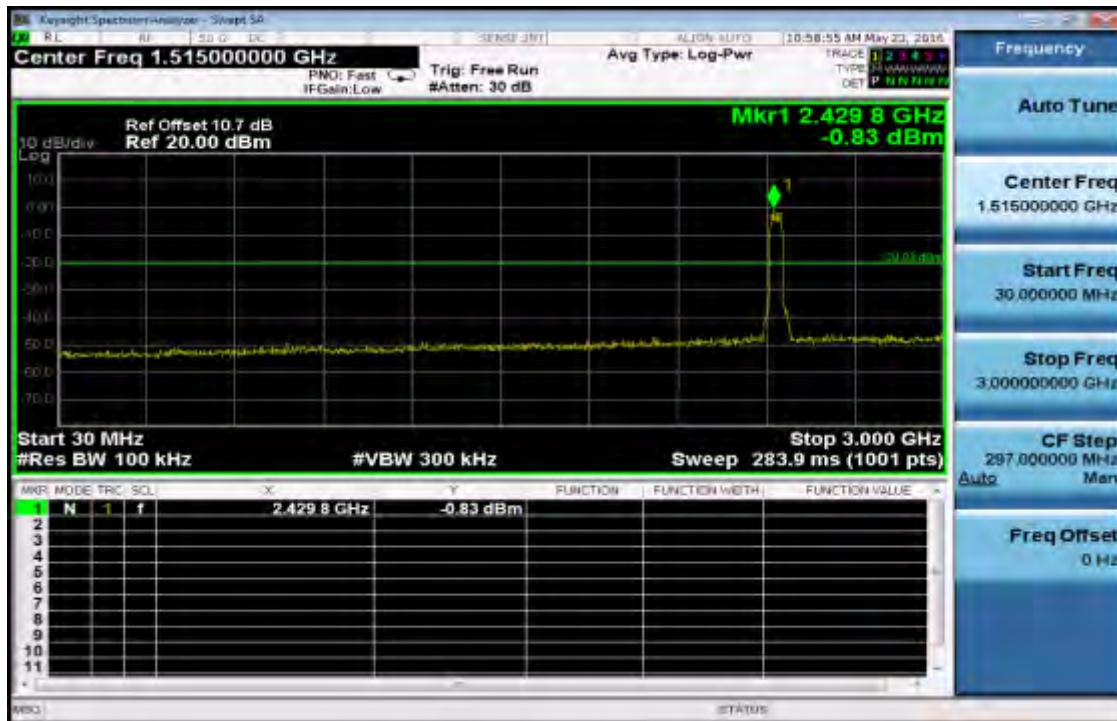


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Spurious Emission Test Data CH-Mid

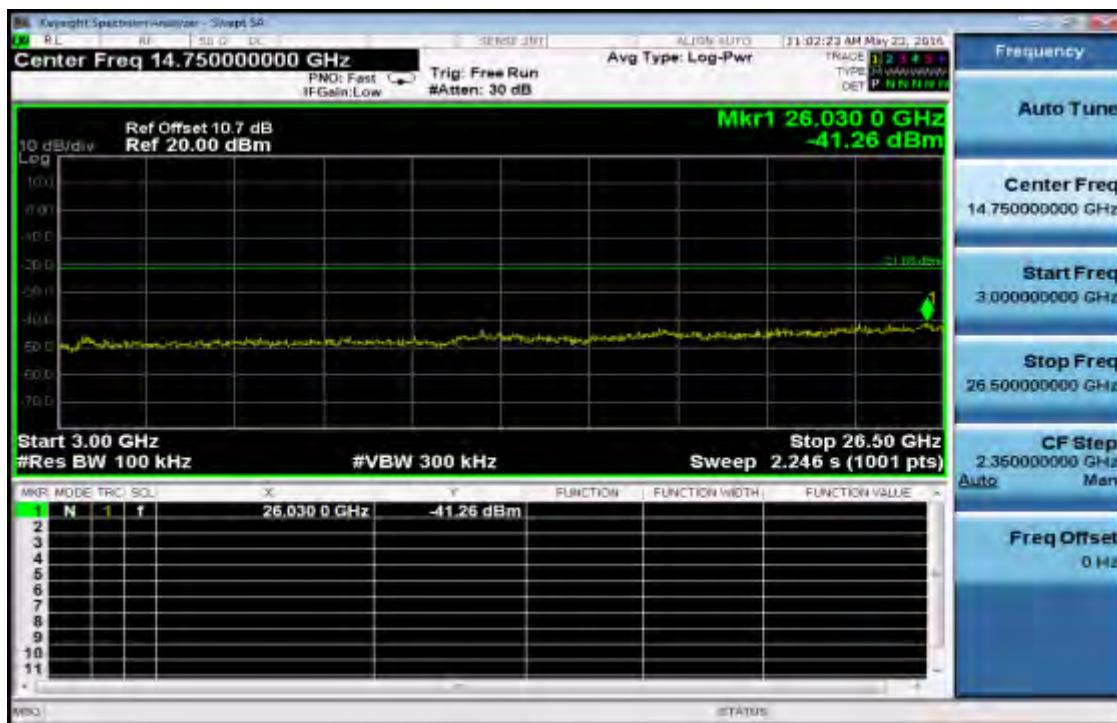
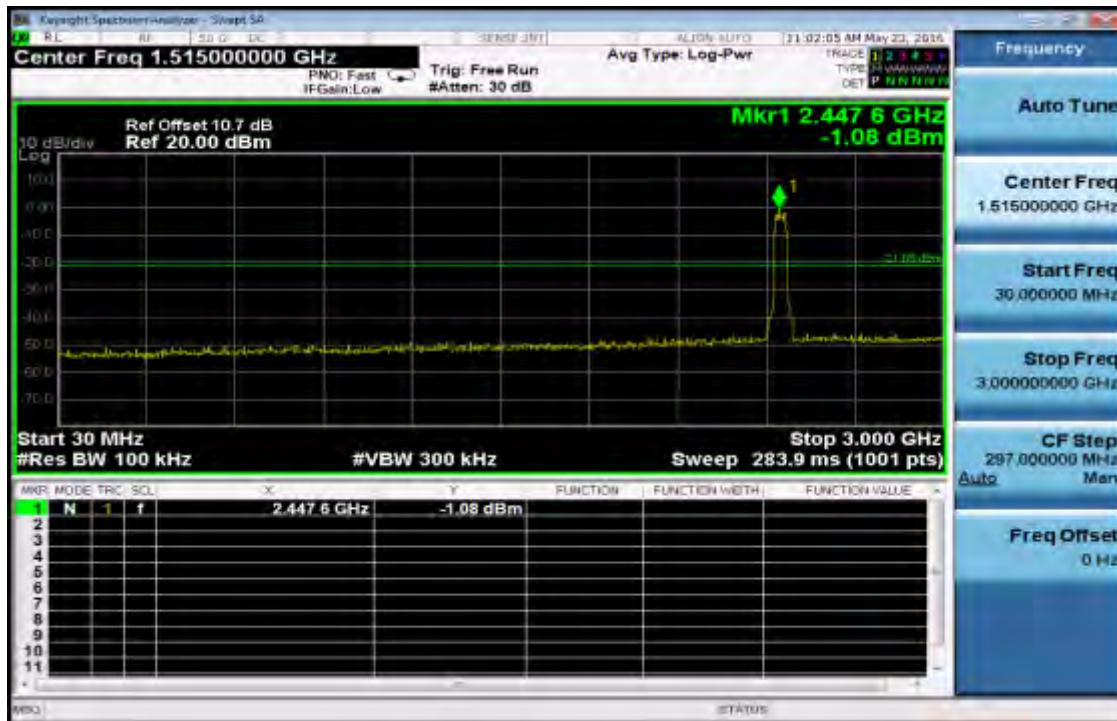


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Spurious Emission Test Data CH-High



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

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. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (dB μ V/m)

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11.2 Measurement Equipment Used:

| 966 Chamber | | | | | |
|-------------------|-----------------|--------------------------------|------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESU 40 | 100363 | 04/12/2016 | 04/11/2017 |
| Loop Antenna | ETS-Lindgren | 6502 | 00143303 | 12/23/2015 | 12/22/2016 |
| Broadband Antenna | TESEQ | CBL 6112D | 35240 | 10/28/2015 | 10/27/2016 |
| Horn Antenna | ETS-Lindgren | 3117 | 00143272 | 12/16/2015 | 12/15/2016 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 185 | 07/24/2015 | 07/23/2016 |
| Pre Amplifier | EMC Instruments | EMC330 | 980096 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | EMC Instruments | EMC0011830 | 980199 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | R&S | SCU-18 | 10204 | 12/12/2015 | 12/11/2016 |
| Pre Amplifier | R&S | SCU-26 | 100780 | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | RG 214/U | 966Rx 9K-30M | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | RG 214/U SUCOFLEX 104 | 966Rx 30M-3G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Rx 1G-18G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | mini 141-12 SUCOFLEX 104 | 966Rx 18G-40G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Tx 30M-18G | 12/12/2015 | 12/11/2016 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | 966Tx 18G-40G | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF27 | 12/12/2015 | 12/11/2016 |
| Site NSA | SGS | 966 Chamber C | SAC-C | 03/04/2016 | 03/03/2017 |
| Site VSWR | SGS | 966 Chamber C | SAC-C | 03/04/2016 | 03/03/2017 |
| DC Power Supply | HOLA | DP-3003 | D7070035 | 05/04/2016 | 05/03/2017 |
| Controller | MF | MF-7802 | N/A | N.C.R. | N.C.R. |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. |
| Turn Table | MF | N/A | N/A | N.C.R. | N.C.R. |
| Test Software | World-Pallas | Dr. E | V 3.0 Lite | N.C.R. | N.C.R. |

NOTE: N.C.R refers to Not Calibrated Required.

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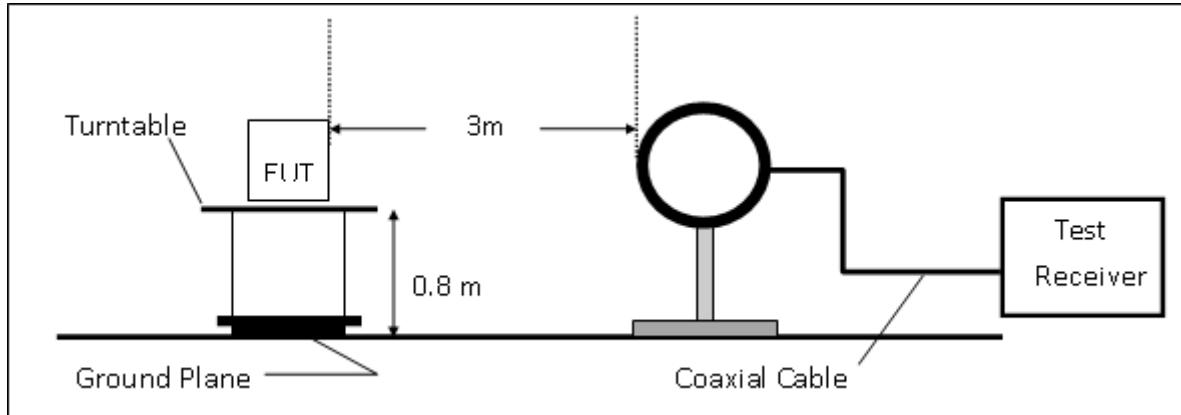
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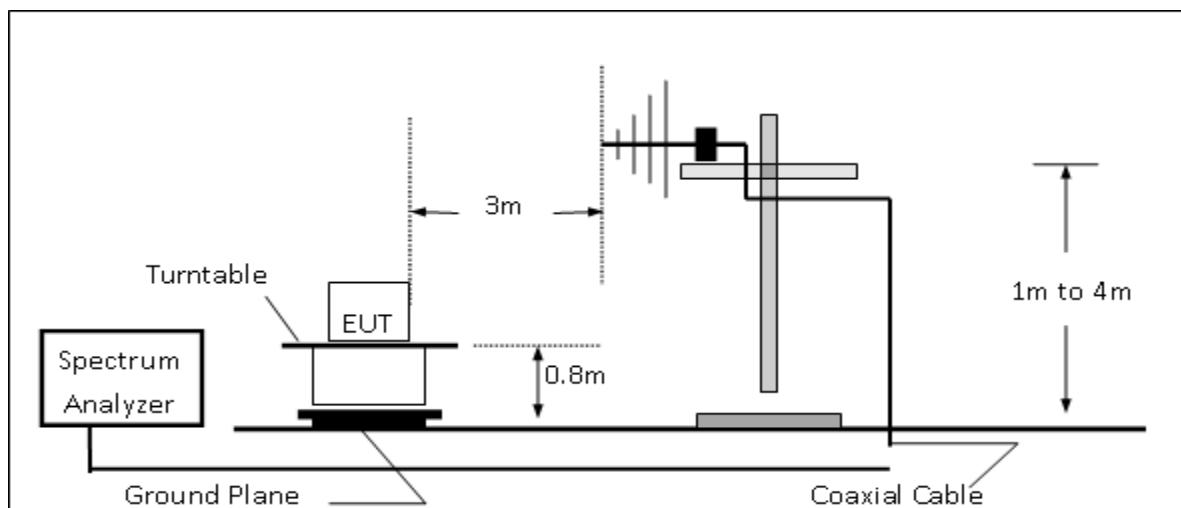
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11.3 Test SET-UP

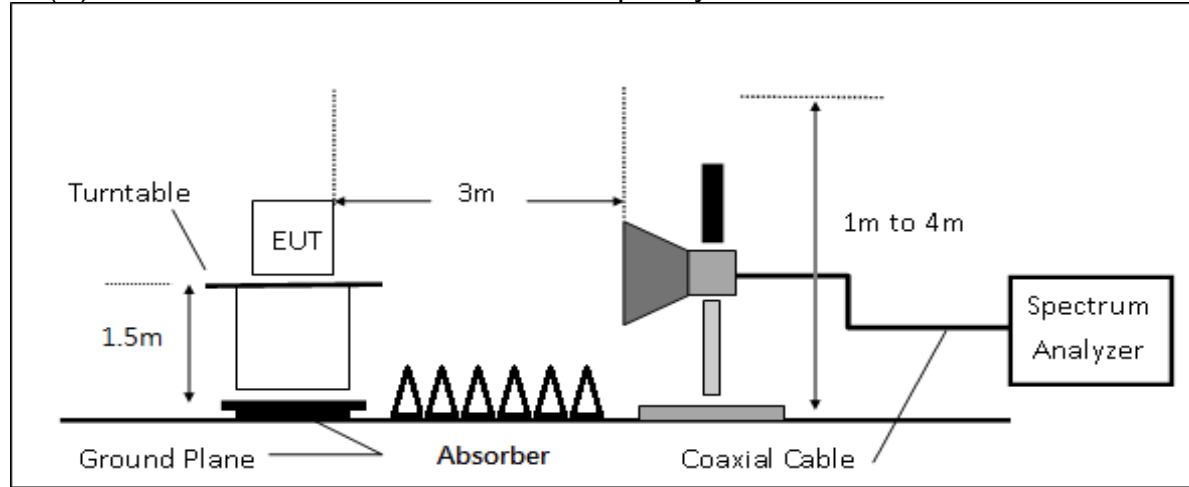
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency form 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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11.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
6. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
8. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW \geq 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
9. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
10. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
11. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
12. Repeat above procedures until all default test channel measured were complete.

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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

f (886-2) 2298-0488

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11.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$\mathbf{FS = RA + AF + CL - AG}$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

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

Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

11.6 Test Results of Radiated Spurious Emissions form 9 kHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

11.7 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Radiated Band Edge Measurement Result (802.11b)

Operation Mode : 802.11b Test Date : 2016/5/20
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2390.00 | E | Peak | 45.26 | 5.78 | 51.04 | 74 | -22.96 |
| 2390.00 | E | Average | 32.76 | 5.78 | 38.54 | 54 | -15.46 |

Operation Mode : 802.11b Test Date : 2016/5/20
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2390.00 | E | Peak | 44.34 | 5.78 | 50.11 | 74 | -23.89 |
| 2390.00 | E | Average | 32.50 | 5.78 | 38.28 | 54 | -15.72 |

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Operation Mode : 802.11b Test Date : 2016/5/20
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical

| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | | Factor | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|------|--------|------------------------------|------------------------------|--------------|
| | | | dB μ V | dB | | | | |
| 2483.50 | E | Peak | 46.75 | 5.88 | 52.63 | 74 | -21.37 | |
| 2483.50 | E | Average | 33.95 | 5.88 | 39.83 | 54 | -14.17 | |
| 2490.00 | S | Peak | 51.28 | 5.86 | 57.14 | 74 | -16.86 | |
| 2490.00 | S | Average | 33.45 | 5.86 | 39.31 | 54 | -14.69 | |

Operation Mode : 802.11b Test Date : 2016/5/20
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | | Factor | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|------|--------|------------------------------|------------------------------|--------------|
| | | | dB μ V | dB | | | | |
| 2483.50 | E | Peak | 44.63 | 5.88 | 50.52 | 74 | -23.48 | |
| 2483.50 | E | Average | 32.66 | 5.88 | 38.54 | 54 | -15.46 | |

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Radiated Band Edge Measurement Result (802.11g)

Operation Mode : 802.11g Test Date : 2016/5/20
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2390.00 | E | Peak | 61.91 | 5.78 | 67.68 | 74 | -6.32 |
| 2390.00 | E | Average | 36.76 | 5.78 | 42.54 | 54 | -11.46 |

Operation Mode : 802.11g Test Date : 2016/5/20
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2390.00 | E | Peak | 51.89 | 5.78 | 57.67 | 74 | -16.33 |
| 2390.00 | E | Average | 34.10 | 5.78 | 39.88 | 54 | -14.12 |

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Operation Mode : 802.11g Test Date : 2016/5/20
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.50 | E | Peak | 66.28 | 5.88 | 72.17 | 74 | -1.83 |
| 2483.50 | E | Average | 40.70 | 5.88 | 46.58 | 54 | -7.42 |

Operation Mode : 802.11g Test Date : 2016/5/20
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.50 | E | Peak | 53.74 | 5.88 | 59.62 | 74 | -14.38 |
| 2483.50 | E | Average | 34.52 | 5.88 | 40.40 | 54 | -13.60 |
| 2483.80 | S | Peak | 55.36 | 5.88 | 61.24 | 74 | -12.76 |
| 2483.80 | S | Average | 34.29 | 5.88 | 40.17 | 54 | -13.83 |

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Radiated Band Edge Measurement Result (802.11_HT20)

Operation Mode : 802.11n20 Test Date : 2016/5/20
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|--------------|------------------------------|------------------------------|--------------|
| | | | dB μ V | | | | |
| 2390.00 | E | Peak | 61.49 | 5.78 | 67.27 | 74 | -6.73 |
| 2390.00 | E | Average | 36.57 | 5.78 | 42.35 | 54 | -11.65 |

Operation Mode : 802.11n20 Test Date : 2016/5/20
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|--------------|------------------------------|------------------------------|--------------|
| | | | dB μ V | | | | |
| 2389.68 | S | Peak | 56.03 | 5.77 | 61.80 | 74 | -12.20 |
| 2389.68 | S | Average | 34.25 | 5.77 | 40.02 | 54 | -13.98 |
| 2390.00 | E | Peak | 54.85 | 5.78 | 60.63 | 74 | -13.37 |
| 2390.00 | E | Average | 34.52 | 5.78 | 40.30 | 54 | -13.70 |

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Operation Mode : 802.11n20 Test Date : 2016/5/20
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.50 | E | Peak | 66.59 | 5.88 | 72.47 | 74 | -1.53 |
| 2483.50 | E | Average | 40.99 | 5.88 | 46.87 | 54 | -7.13 |
| 2483.90 | S | Peak | 67.44 | 5.88 | 73.32 | 74 | -0.68 |
| 2483.90 | S | Average | 40.44 | 5.88 | 46.32 | 54 | -7.68 |

Operation Mode : 802.11n20 Test Date : 2016/5/20
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2483.50 | E | Peak | 61.34 | 5.88 | 67.23 | 74 | -6.77 |
| 2483.50 | E | Average | 36.08 | 5.88 | 41.96 | 54 | -12.04 |

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Radiated Band Edge Measurement Result (802.11-HT40)

Operation Mode : 802.11n40 Test Date : 2016/5/20
Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2389.80 | S | Peak | 60.24 | 5.77 | 66.01 | 74 | -7.99 |
| 2389.80 | S | Average | 37.29 | 5.77 | 43.06 | 54 | -10.94 |
| 2390.00 | E | Peak | 59.30 | 5.78 | 65.08 | 74 | -8.92 |
| 2390.00 | E | Average | 37.51 | 5.78 | 43.29 | 54 | -10.71 |

Operation Mode : 802.11n40 Test Date : 2016/5/20
Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 2390.00 | E | Peak | 53.55 | 5.78 | 59.32 | 74 | -14.68 |
| 2390.00 | E | Average | 34.74 | 5.78 | 40.52 | 54 | -13.48 |

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Operation Mode : 802.11n40 Test Date : 2016/5/20
Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Vertical

| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | Factor | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|--------|------------------------------|------------------------------|--------------|
| | | | dB μ V | | | | |
| 2483.50 | E | Peak | 65.91 | 5.88 | 71.80 | 74 | -2.20 |
| 2483.50 | E | Average | 42.88 | 5.88 | 48.76 | 54 | -5.24 |
| 2483.70 | S | Peak | 67.39 | 5.88 | 73.27 | 74 | -0.73 |
| 2483.70 | S | Average | 42.81 | 5.88 | 48.69 | 54 | -5.31 |

Operation Mode : 802.11n40 Test Date : 2016/5/20
Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Ashton
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal

| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | Factor | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|--------|------------------------------|------------------------------|--------------|
| | | | dB μ V | | | | |
| 2483.50 | E | Peak | 57.42 | 5.88 | 63.30 | 74 | -10.70 |
| 2483.50 | E | Average | 37.95 | 5.88 | 43.83 | 54 | -10.17 |
| 2484.10 | S | Peak | 59.53 | 5.88 | 65.41 | 74 | -8.59 |
| 2484.10 | S | Average | 37.75 | 5.88 | 43.63 | 54 | -10.37 |

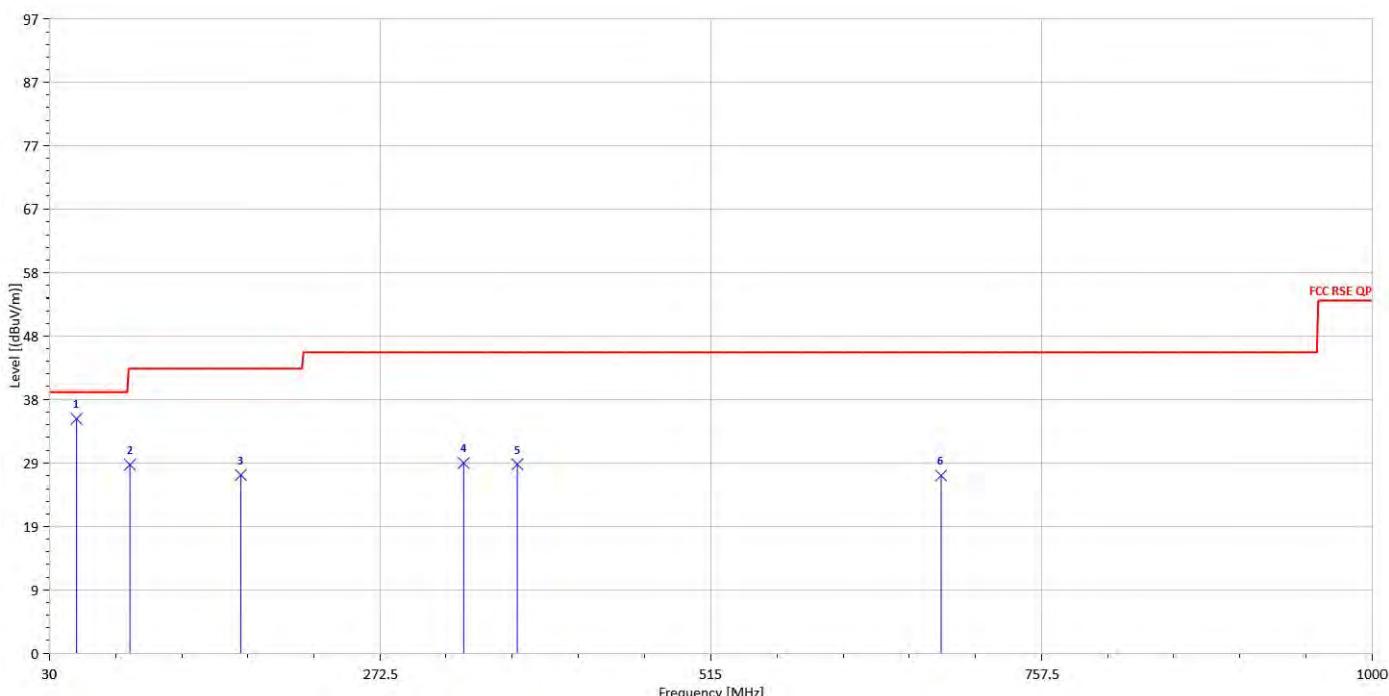
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Below 1GHz Worst-Case Data:**Radiated Spurious Emission Measurement Result (802.11 g)**

Operation Mode : 802.11g Test Date : 2016/5/27
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7 deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



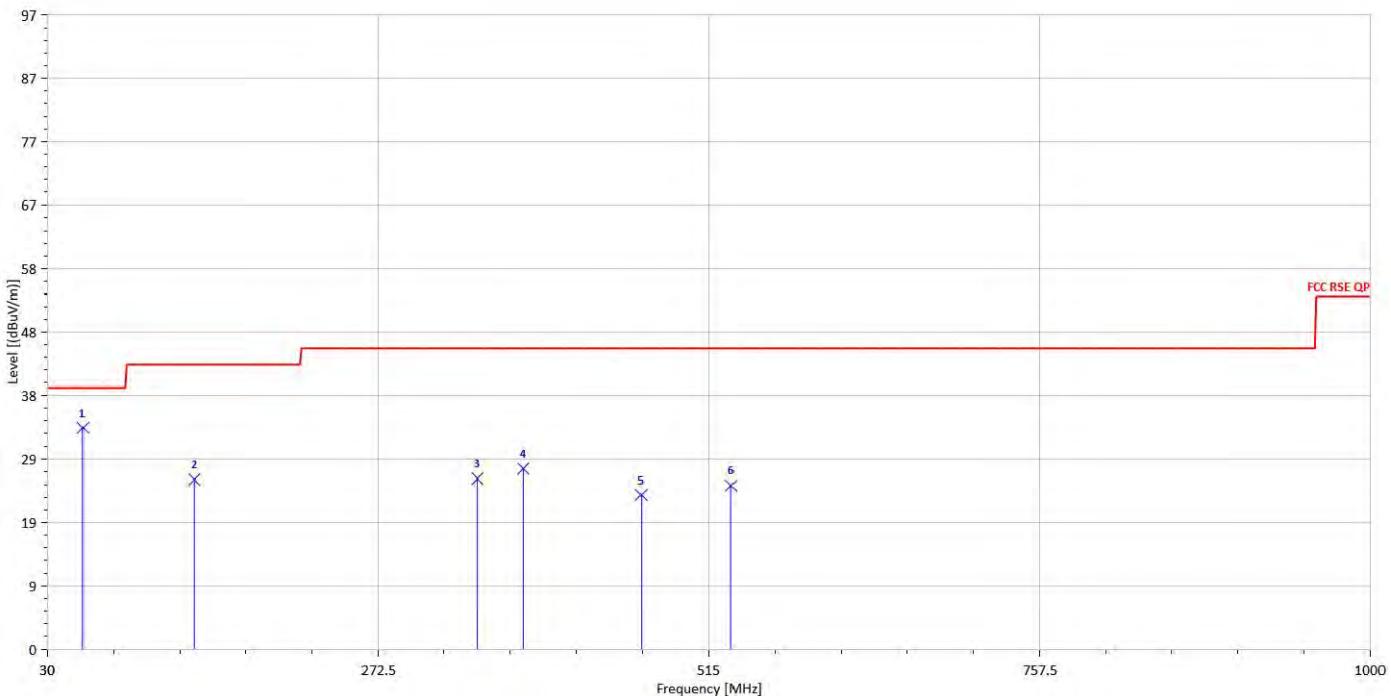
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 50.37 | S | Peak | 55.43 | -19.55 | 35.88 | 40 | -4.12 |
| 89.17 | S | Peak | 48.42 | -19.63 | 28.79 | 43.5 | -14.71 |
| 170.65 | S | Peak | 45.53 | -18.31 | 27.22 | 43.5 | -16.28 |
| 333.61 | S | Peak | 40.93 | -11.88 | 29.05 | 46 | -16.95 |
| 373.38 | S | Peak | 39.43 | -10.56 | 28.87 | 46 | -17.13 |
| 683.78 | S | Peak | 32.67 | -5.55 | 27.11 | 46 | -18.89 |

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Operation Mode : 802.11g Test Date : 2016/5/27
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



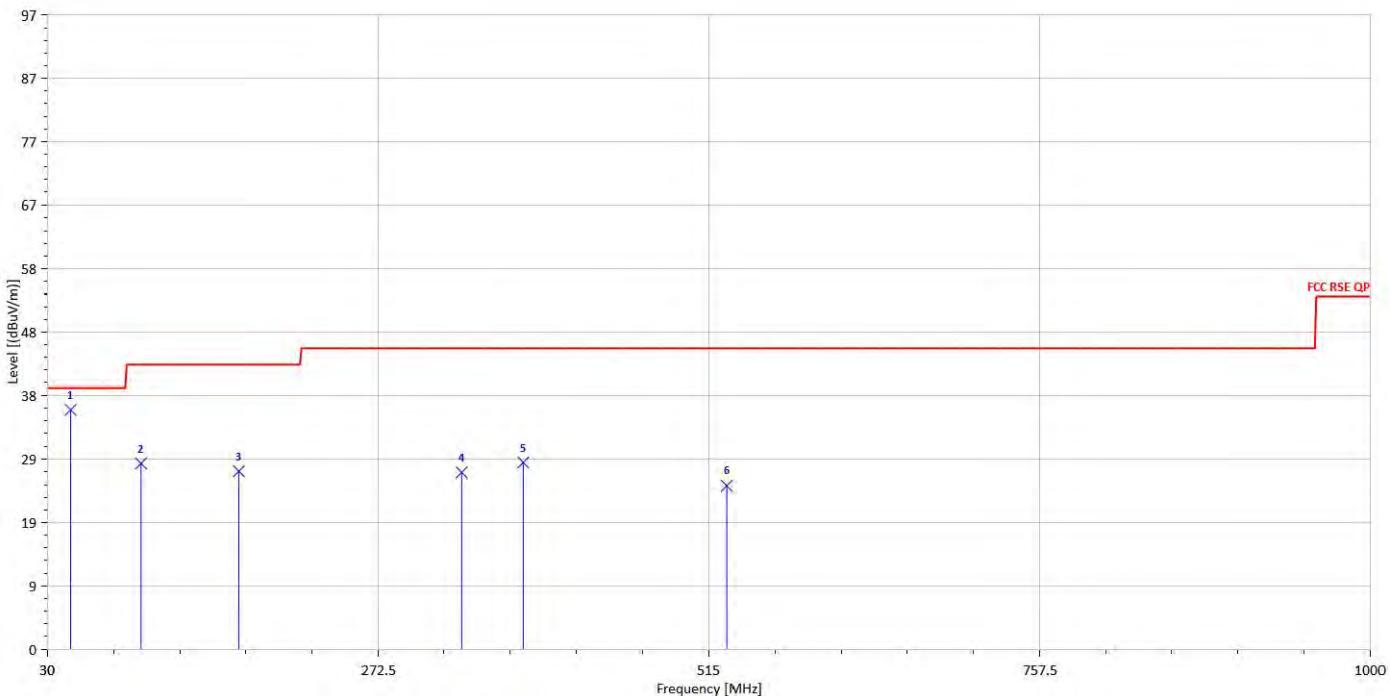
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 56.19 | S | Peak | 55.47 | -21.59 | 33.89 | 40 | -6.11 |
| 137.67 | S | Peak | 41.89 | -15.94 | 25.95 | 43.5 | -17.55 |
| 345.25 | S | Peak | 37.54 | -11.44 | 26.10 | 46 | -19.90 |
| 379.20 | S | Peak | 38.03 | -10.45 | 27.59 | 46 | -18.41 |
| 465.53 | S | Peak | 31.70 | -8.04 | 23.66 | 46 | -22.34 |
| 531.49 | S | Peak | 32.28 | -7.22 | 25.07 | 46 | -20.93 |

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Operation Mode : 802.11g Test Date : 2016/5/27
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



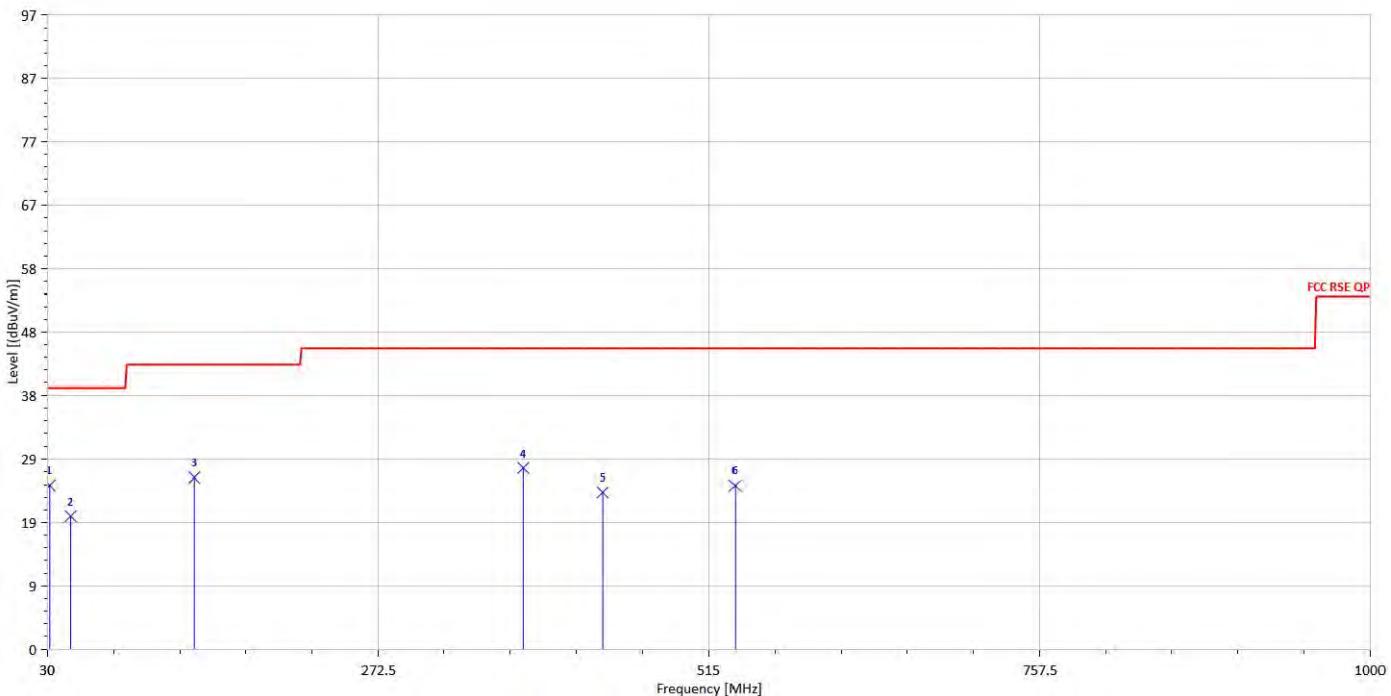
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 47.46 | S | Peak | 54.56 | -17.91 | 36.65 | 40 | -3.35 |
| 98.87 | S | Peak | 46.31 | -17.93 | 28.37 | 43.5 | -15.13 |
| 170.65 | S | Peak | 45.50 | -18.31 | 27.18 | 43.5 | -16.32 |
| 333.61 | S | Peak | 38.87 | -11.88 | 26.99 | 46 | -19.01 |
| 379.20 | S | Peak | 38.97 | -10.45 | 28.52 | 46 | -17.48 |
| 528.58 | S | Peak | 32.50 | -7.42 | 25.08 | 46 | -20.92 |

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Operation Mode : 802.11g Test Date : 2016/5/27
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



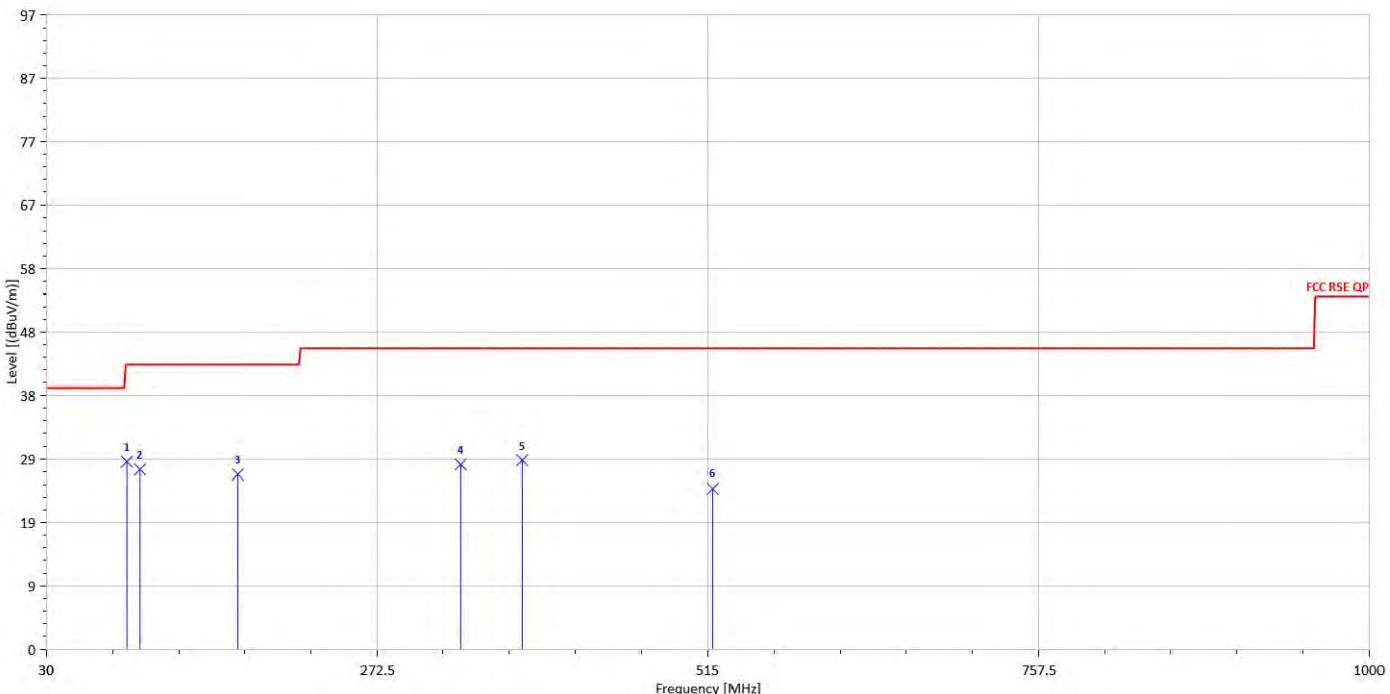
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | | Factor | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|-------|--------|------------------------|------------------------|--------------|
| | | | Reading | Level | | | | |
| 31.94 | S | Peak | 33.34 | | -8.22 | 25.12 | 40 | -14.88 |
| 47.46 | S | Peak | 38.29 | | -17.91 | 20.38 | 40 | -19.62 |
| 137.67 | S | Peak | 42.21 | | -15.94 | 26.27 | 43.5 | -17.23 |
| 379.20 | S | Peak | 38.13 | | -10.45 | 27.69 | 46 | -18.31 |
| 437.40 | S | Peak | 33.36 | | -9.31 | 24.05 | 46 | -21.95 |
| 534.40 | S | Peak | 32.38 | | -7.31 | 25.07 | 46 | -20.93 |

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Operation Mode : 802.11g Test Date : 2016/5/27
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



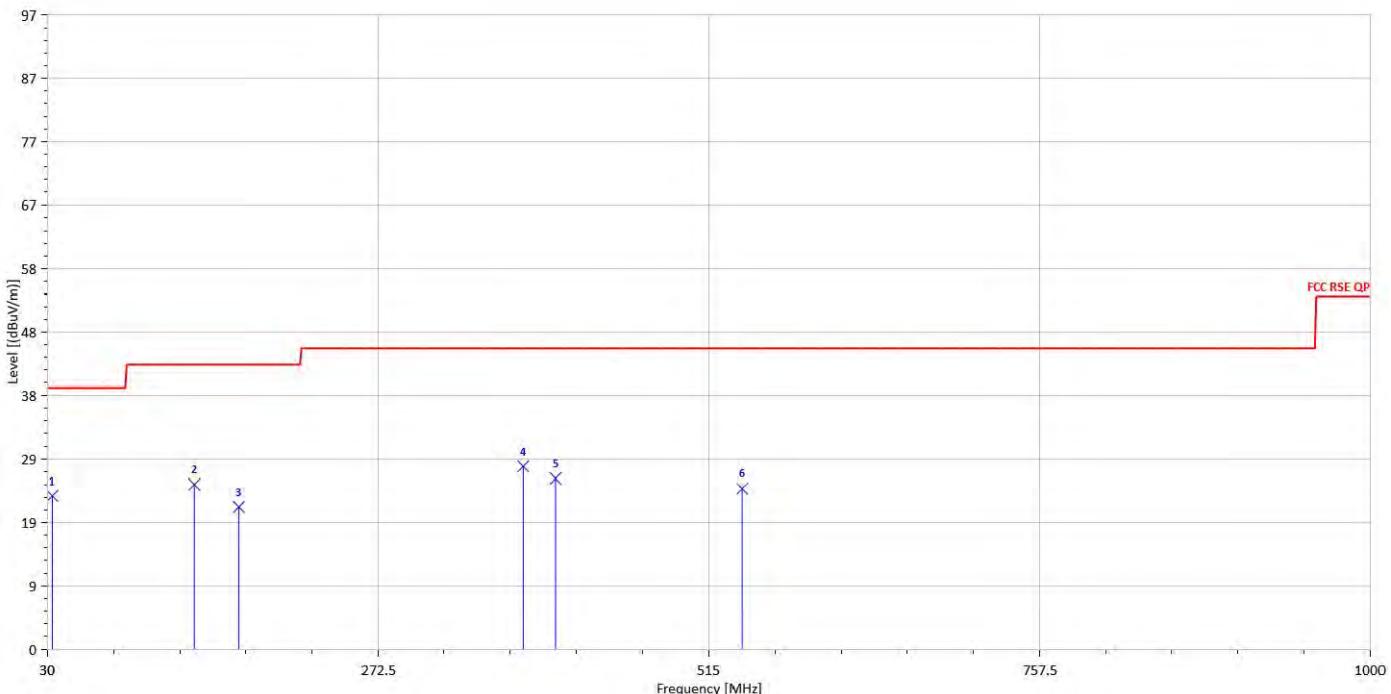
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|---------------|--------------|------------------------|------------------------|--------------|
| | | | Reading | Level dBµV | | | | |
| 89.17 | S | Peak | 48.28 | 48.28 | -19.63 | 28.65 | 43.5 | -14.85 |
| 98.87 | S | Peak | 45.41 | 45.41 | -17.93 | 27.47 | 43.5 | -16.03 |
| 170.65 | S | Peak | 45.04 | 45.04 | -18.31 | 26.73 | 43.5 | -16.77 |
| 333.61 | S | Peak | 40.11 | 40.11 | -11.88 | 28.23 | 46 | -17.77 |
| 379.20 | S | Peak | 39.33 | 39.33 | -10.45 | 28.88 | 46 | -17.12 |
| 518.88 | S | Peak | 31.99 | 31.99 | -7.40 | 24.59 | 46 | -21.41 |

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Operation Mode : 802.11g Test Date : 2016/5/27
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 33.88 | S | Peak | 32.78 | -9.27 | 23.51 | 40 | -16.49 |
| 137.67 | S | Peak | 41.18 | -15.94 | 25.24 | 43.5 | -18.26 |
| 170.65 | S | Peak | 40.11 | -18.31 | 21.80 | 43.5 | -21.70 |
| 379.20 | S | Peak | 38.39 | -10.45 | 27.94 | 46 | -18.06 |
| 402.48 | S | Peak | 35.86 | -9.74 | 26.13 | 46 | -19.87 |
| 539.25 | S | Peak | 31.99 | -7.38 | 24.60 | 46 | -21.40 |

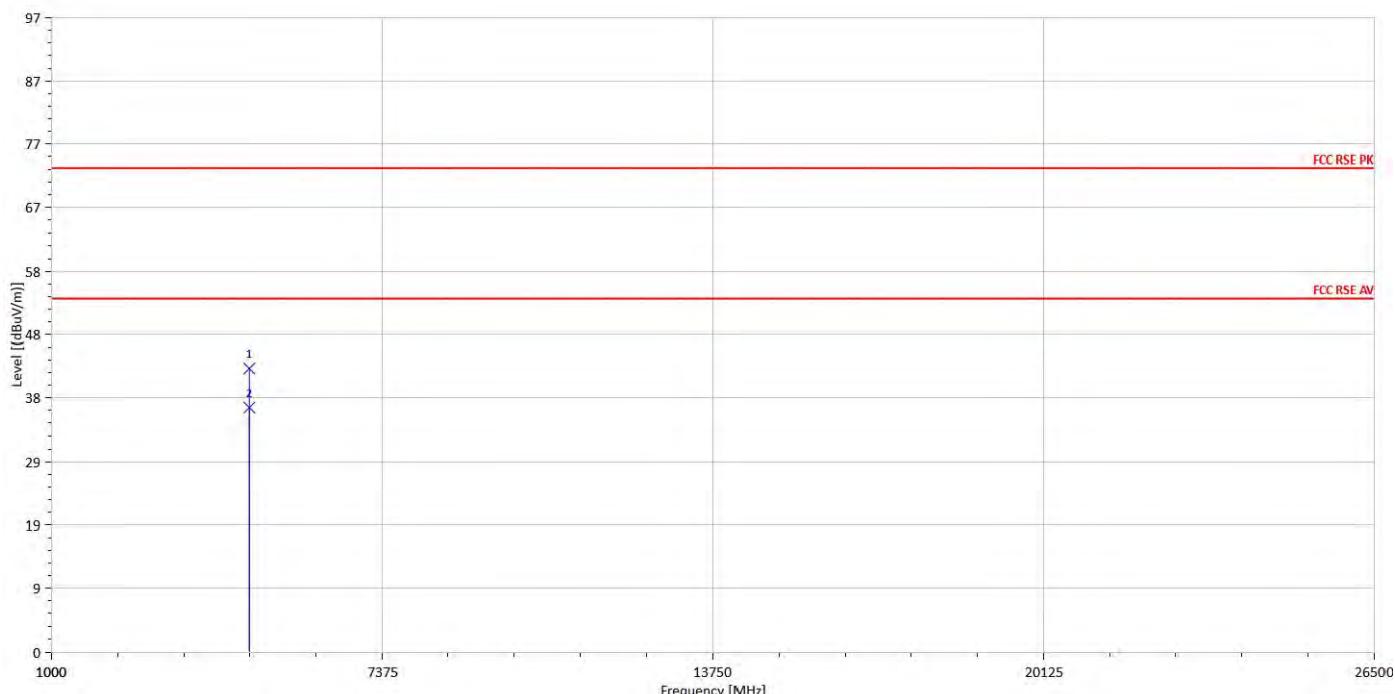
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Above 1GHz Data:**Radiated Spurious Emission Measurement Result (802.11 b)**

Operation Mode : 802.11b Test Date : 2016/5/21
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



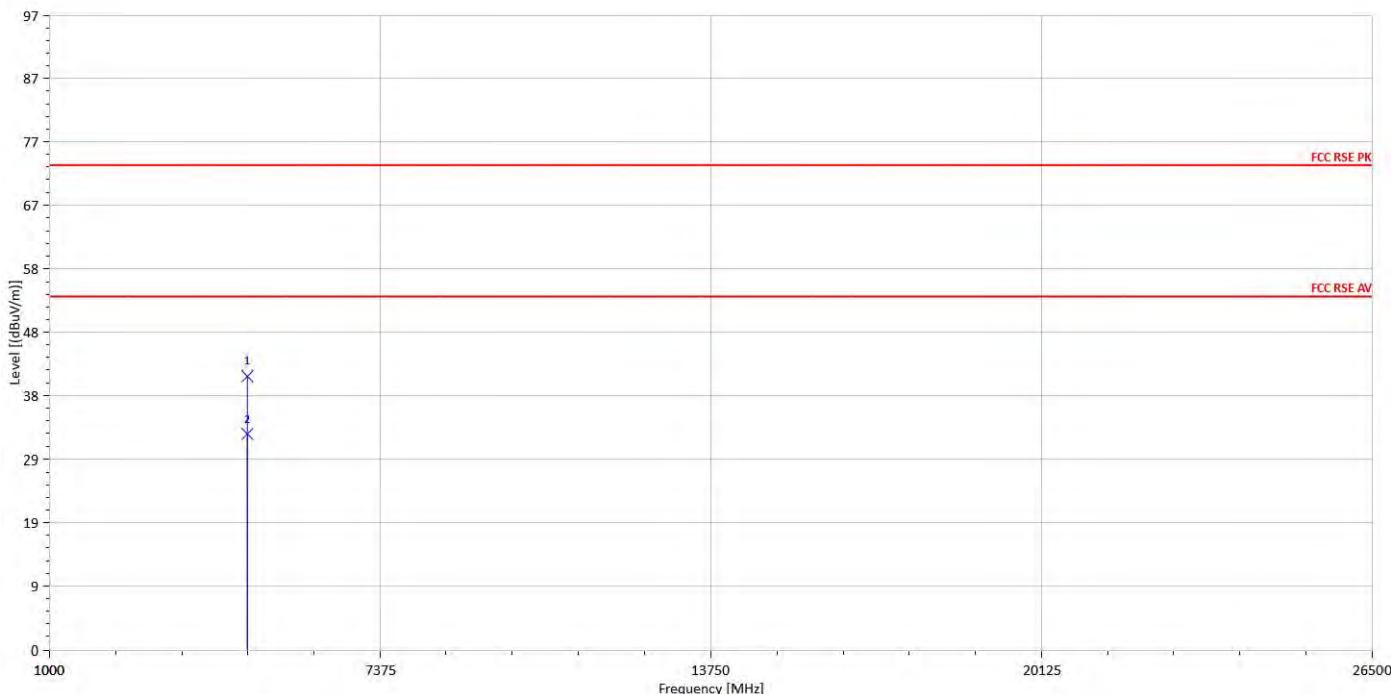
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | H | Peak | 32.91 | 10.43 | 43.34 | 74 | -30.66 |
| 4824.00 | H | Average | 26.89 | 10.43 | 37.32 | 54 | -16.68 |

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Operation Mode : 802.11b Test Date : 2016/5/21
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



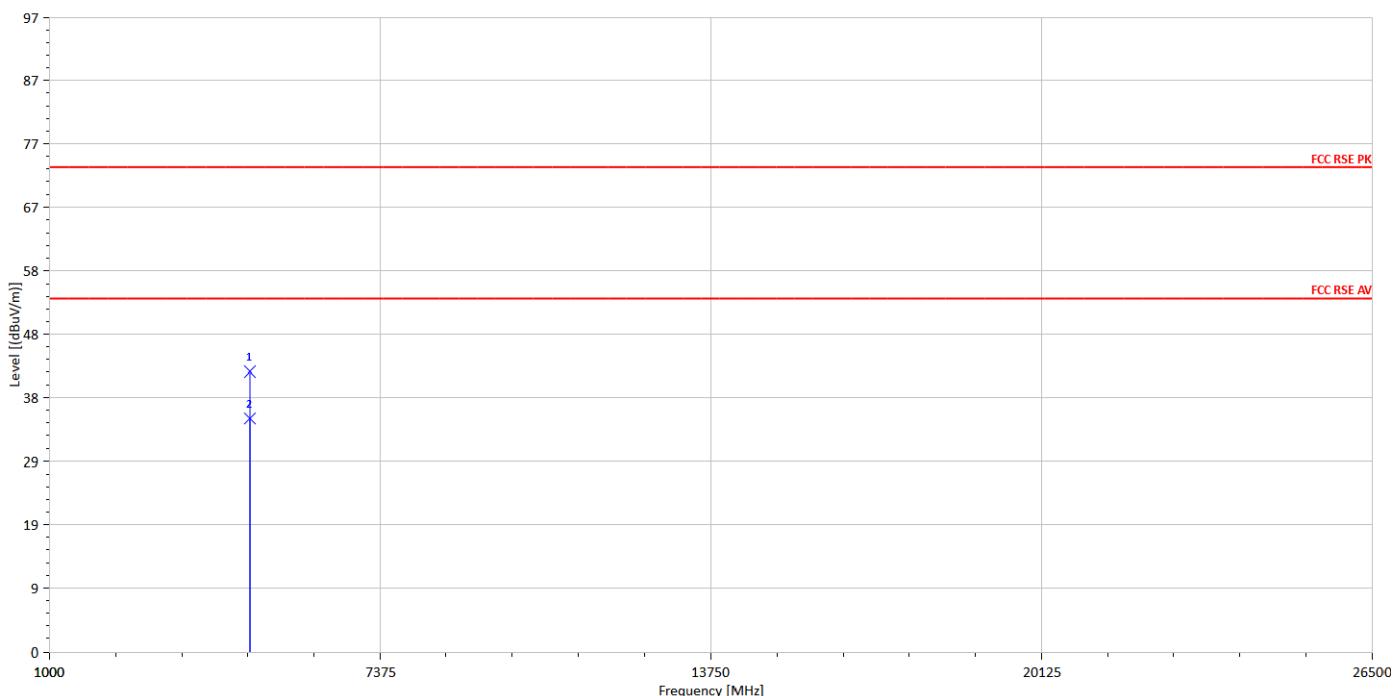
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4824.00 | H | Peak | 31.40 | 10.43 | 41.83 | 74 | -32.17 |
| 4824.00 | H | Average | 22.51 | 10.43 | 32.94 | 54 | -21.06 |

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Operation Mode : 802.11b Test Date : 2016/5/21
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



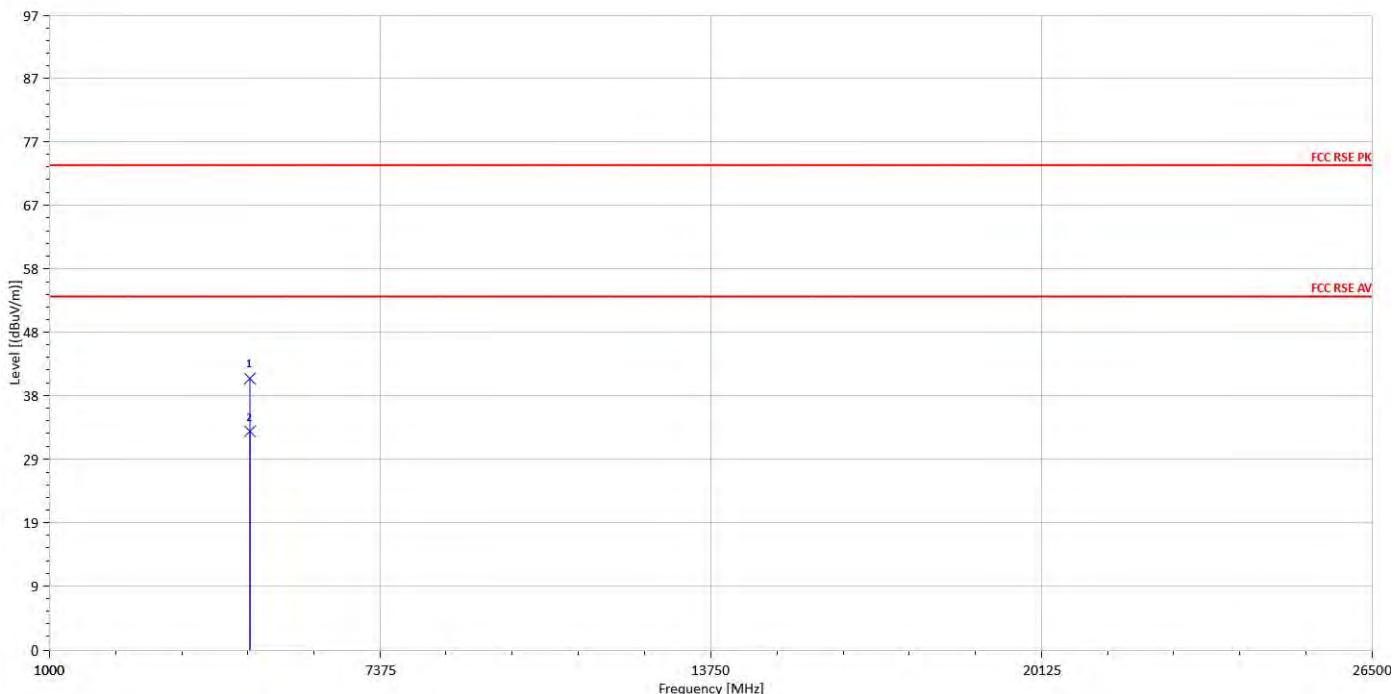
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4874.00 | H | Peak | 32.12 | 10.66 | 42.78 | 74 | -31.22 |
| 4874.00 | H | Average | 24.97 | 10.66 | 35.63 | 54 | -18.37 |

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Operation Mode : 802.11b Test Date : 2016/5/21
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



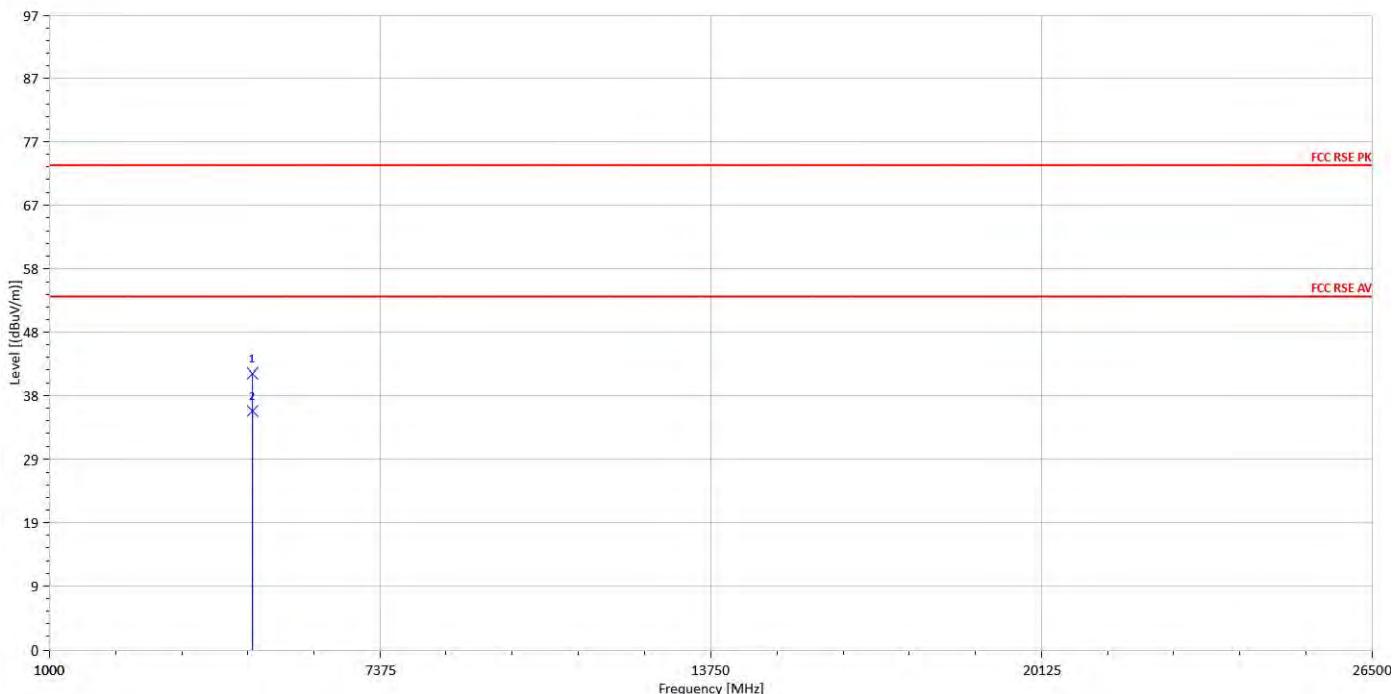
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | H | Peak | 30.83 | 10.66 | 41.49 | 74 | -32.51 |
| 4874.00 | H | Average | 22.68 | 10.66 | 33.34 | 54 | -20.66 |

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Operation Mode : 802.11b Test Date : 2016/5/21
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



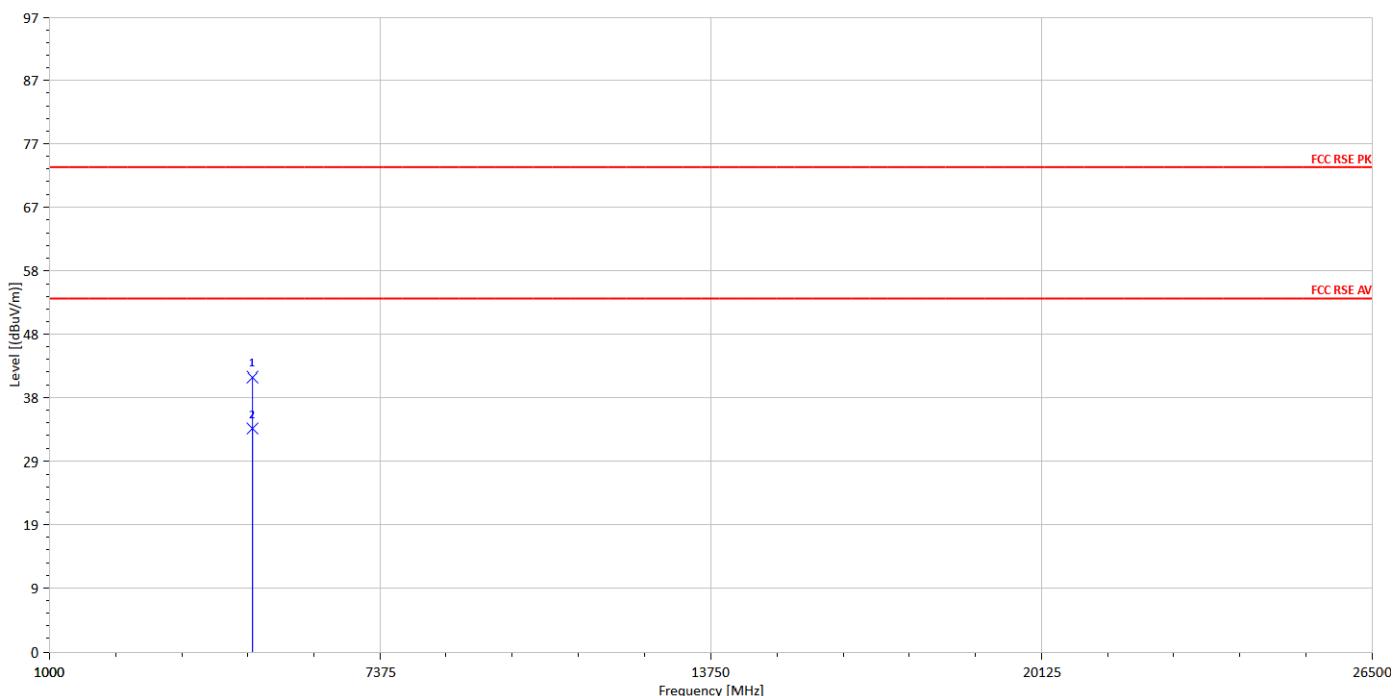
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4924.00 | H | Peak | 31.64 | 10.57 | 42.21 | 74 | -31.79 |
| 4924.00 | H | Average | 25.90 | 10.57 | 36.47 | 54 | -17.53 |

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Operation Mode : 802.11b Test Date : 2016/5/21
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4924.00 | H | Peak | 31.37 | 10.57 | 41.95 | 74 | -32.05 |
| 4924.00 | H | Average | 23.51 | 10.57 | 34.08 | 54 | -19.92 |

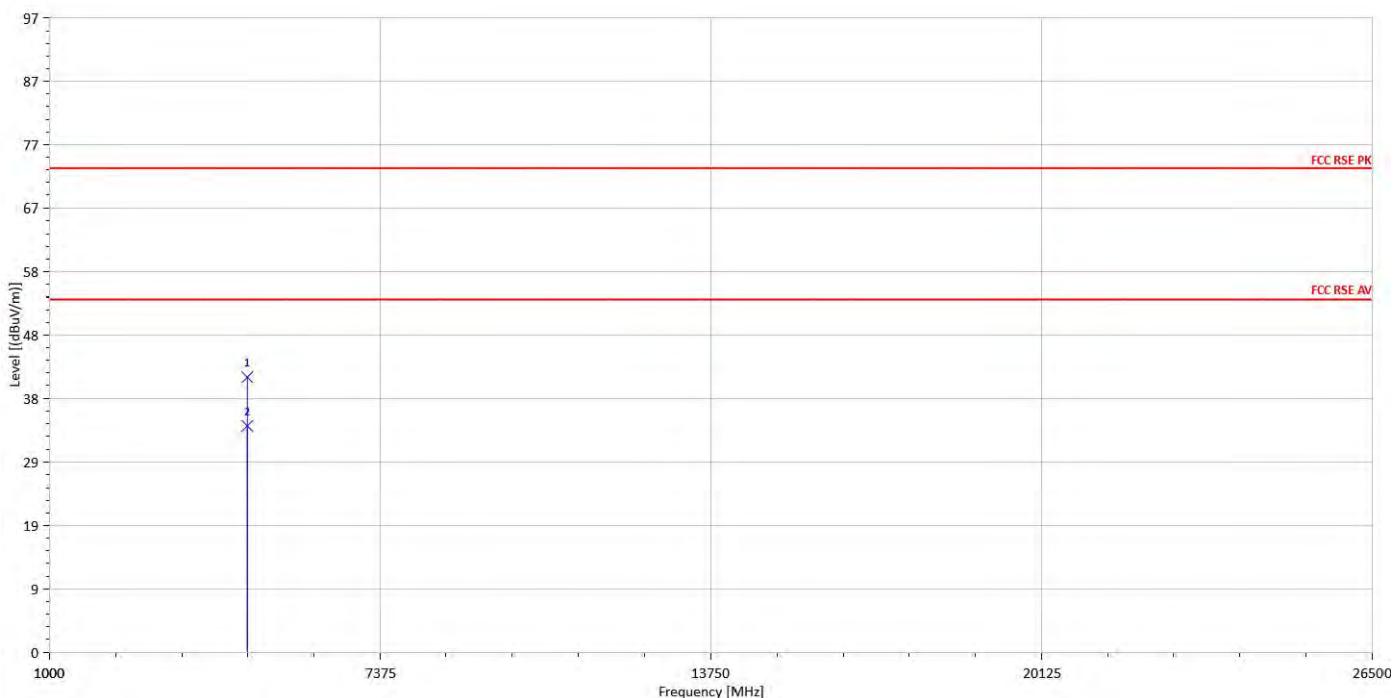
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Radiated Spurious Emission Measurement Result (802.11 g)

Operation Mode : 802.11g Test Date : 2016/5/21
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



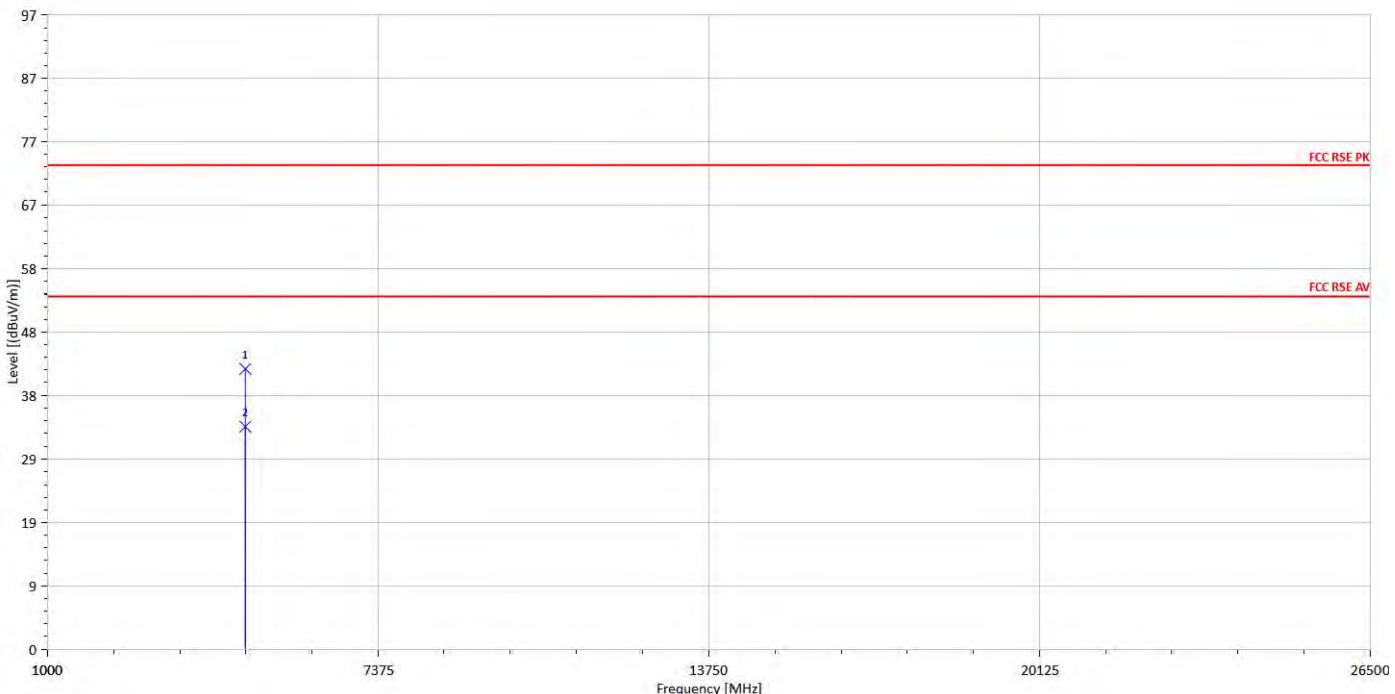
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | H | Peak | 31.58 | 10.43 | 42.00 | 74 | -32.00 |
| 4824.00 | H | Average | 24.20 | 10.43 | 34.63 | 54 | -19.37 |

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Operation Mode : 802.11g Test Date : 2016/5/21
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



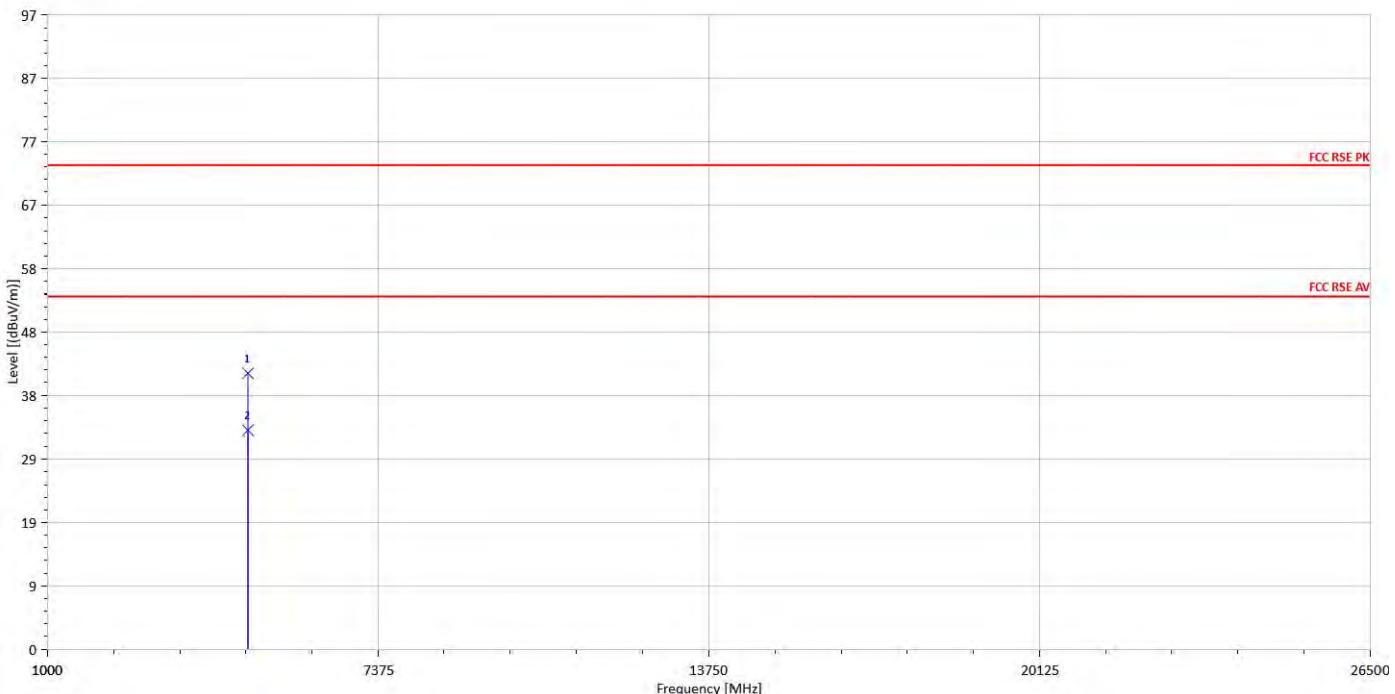
| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4824.00 | H | Peak | 32.40 | 10.43 | 42.83 | 74 | -31.17 |
| 4824.00 | H | Average | 23.62 | 10.43 | 34.05 | 54 | -19.95 |

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Operation Mode : 802.11g Test Date : 2016/5/21
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



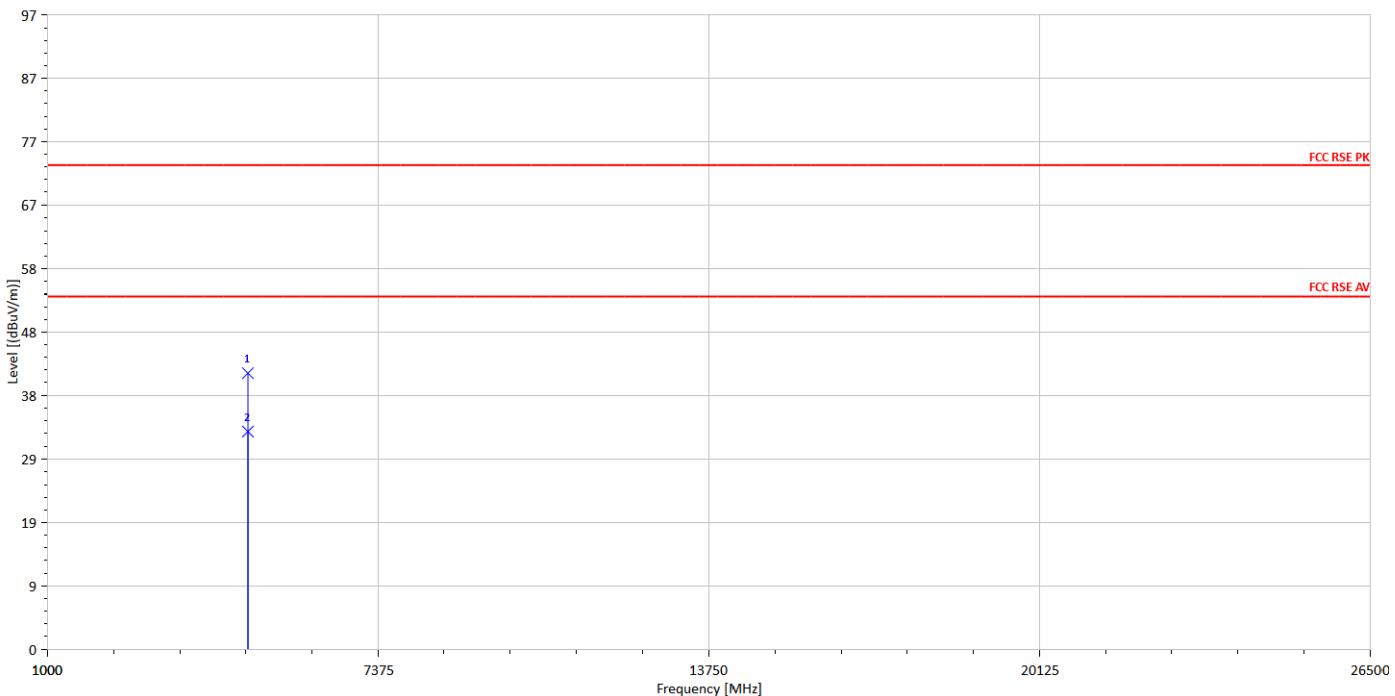
| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.00 | H | Peak | 31.48 | 10.66 | 42.15 | 74 | -31.85 |
| 4874.00 | H | Average | 22.85 | 10.66 | 33.51 | 54 | -20.49 |

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Operation Mode : 802.11g Test Date : 2016/5/21
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



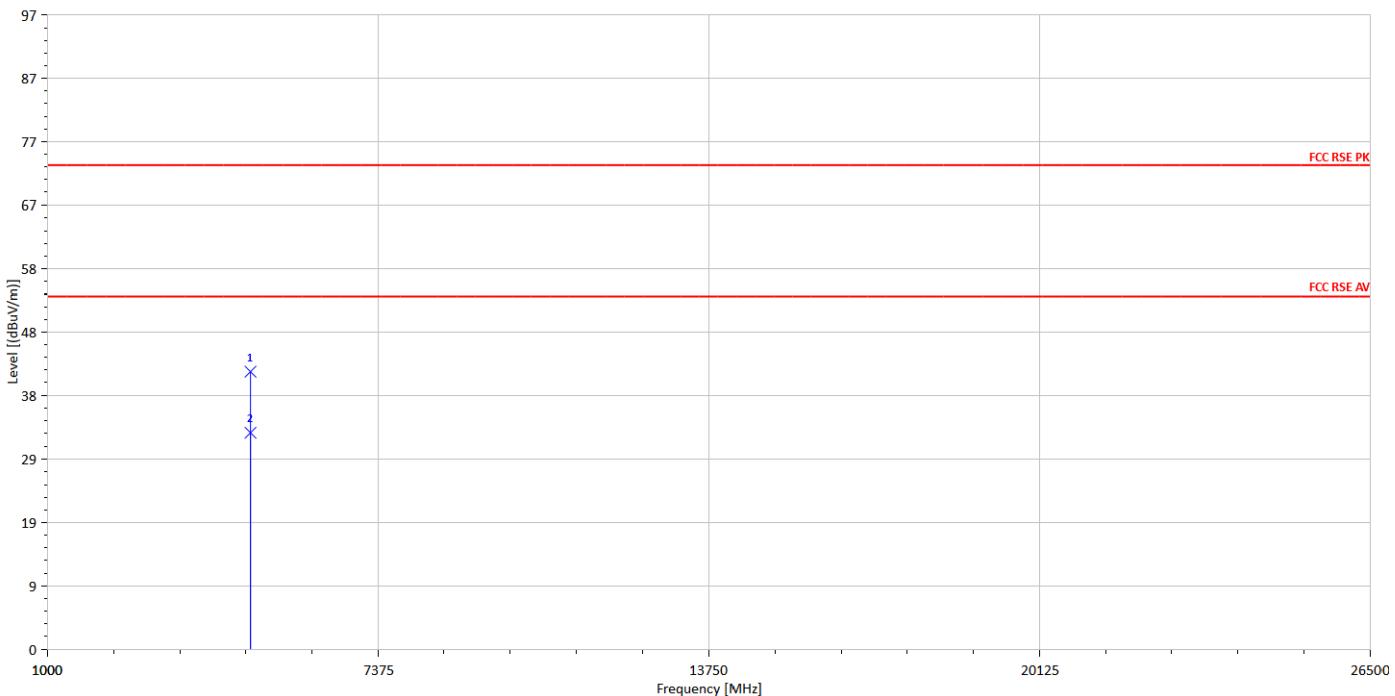
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | | Factor | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|---------------|--------|------------------------|------------------------|--------------|
| | | | Reading | Level dBµV | | | | |
| 4874.00 | H | Peak | 31.50 | 10.66 | 42.17 | 74 | -31.83 | |
| 4874.00 | H | Average | 22.64 | 10.66 | 33.30 | 54 | -20.70 | |

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Operation Mode : 802.11g Test Date : 2016/5/21
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



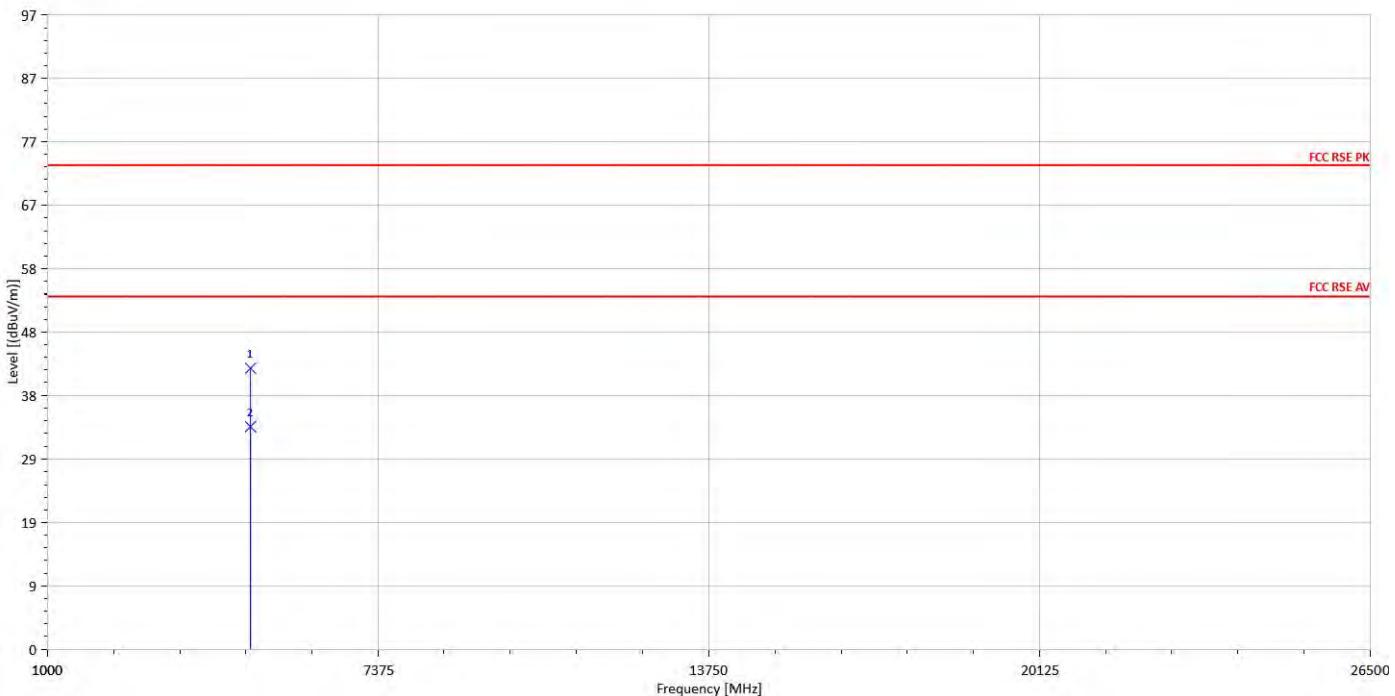
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|---------------------|--------------|------------------------------|------------------------------|--------------|
| | | | Reading | Level dB μ V | | | | |
| 4924.00 | H | Peak | 31.82 | 10.57 | 42.39 | 74 | -31.61 | |
| 4924.00 | H | Average | 22.54 | 10.57 | 33.11 | 54 | -20.89 | |

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Operation Mode : 802.11g Test Date : 2016/5/21
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4924.00 | H | Peak | 32.35 | 10.57 | 42.92 | 74 | -31.08 |
| 4924.00 | H | Average | 23.48 | 10.57 | 34.05 | 54 | -19.95 |

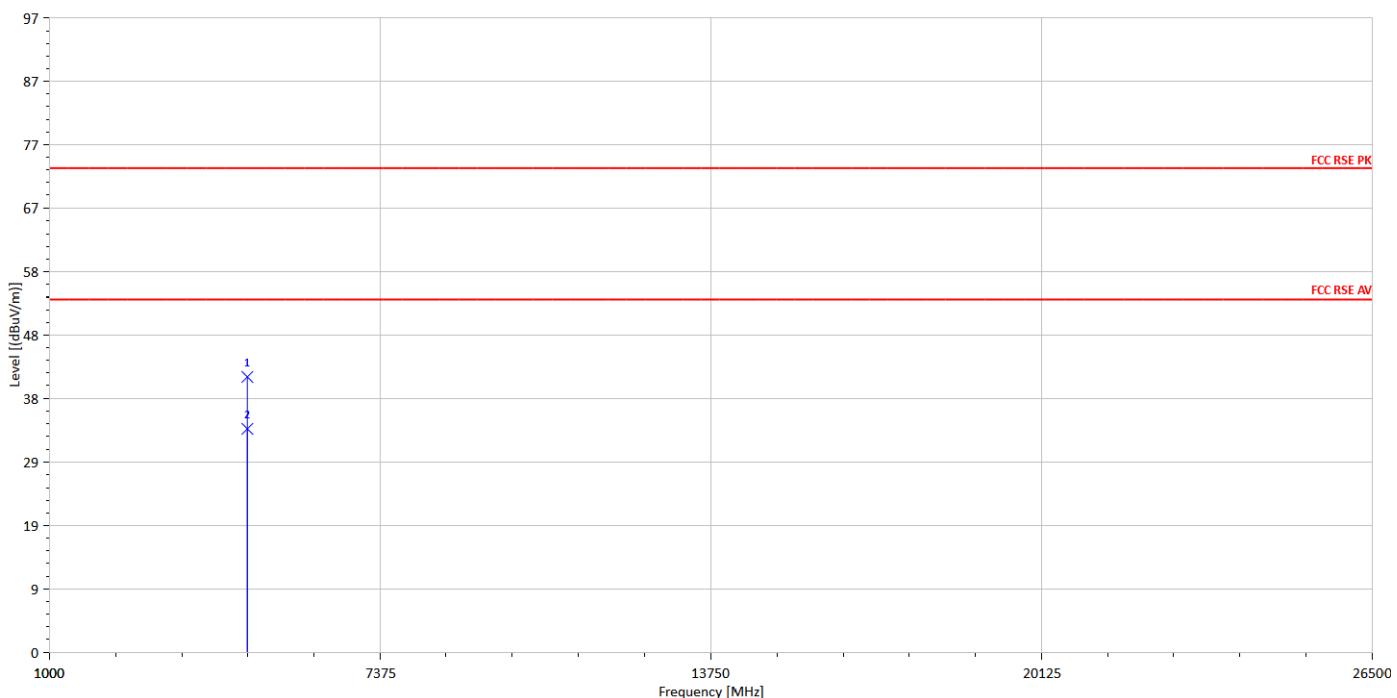
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Radiated Spurious Emission Measurement Result (802.11_HT20)

Operation Mode : 802.11n20 Test Date : 2016/5/21
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



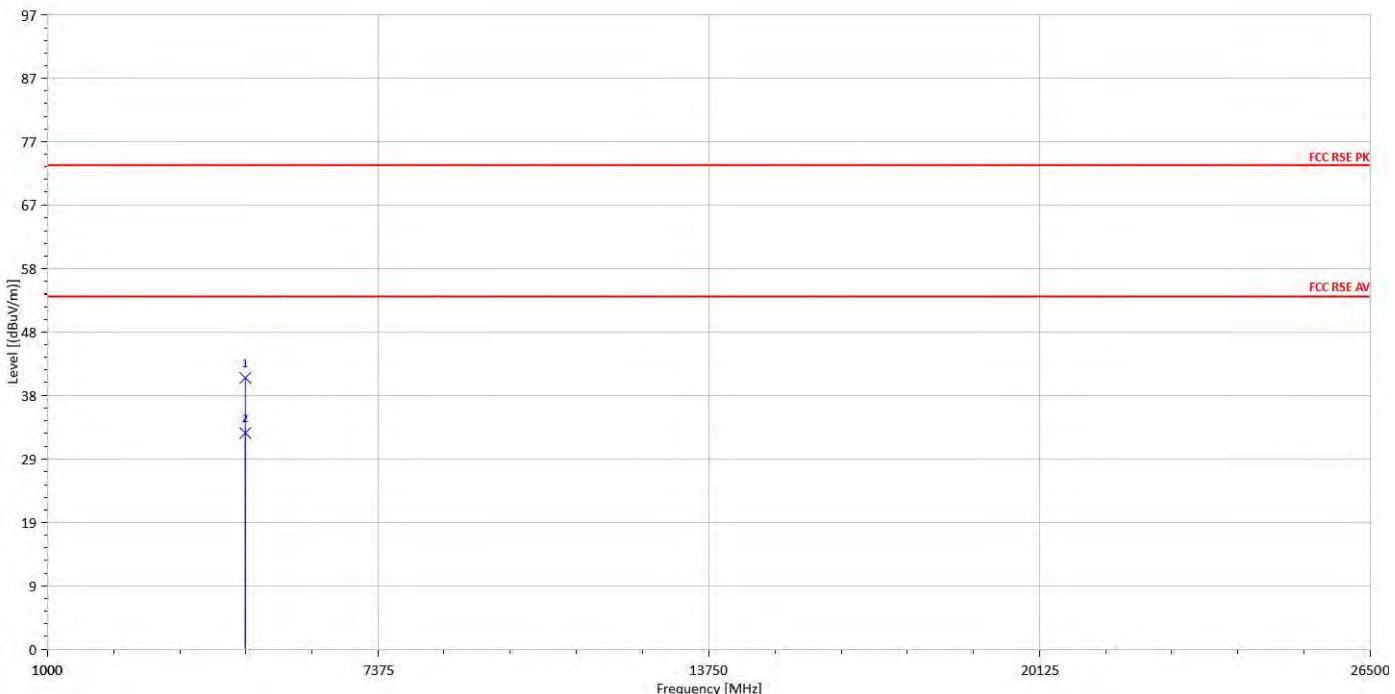
| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4824.00 | H | Peak | 31.62 | 10.43 | 42.05 | 74 | -31.95 |
| 4824.00 | H | Average | 23.75 | 10.43 | 34.18 | 54 | -19.82 |

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Operation Mode : 802.11n20 Test Date : 2016/5/21
 Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



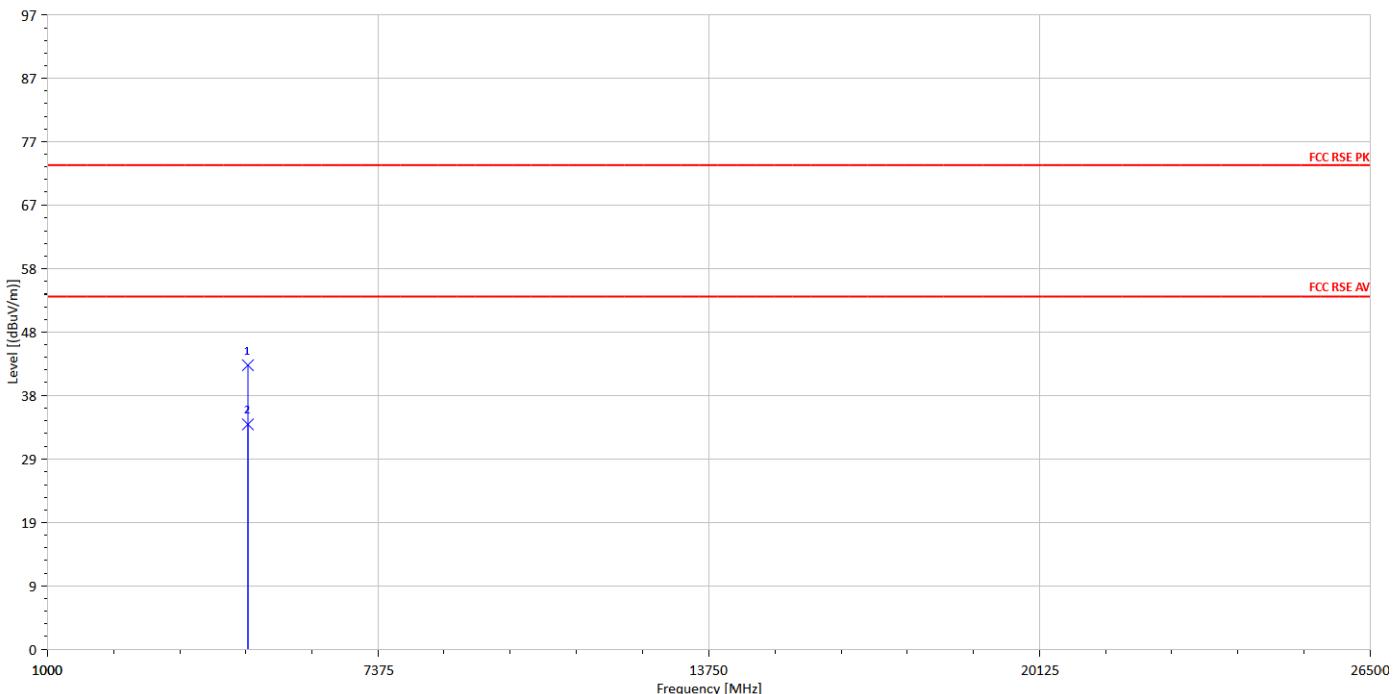
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|-------|--------------|------------------------|------------------------|--------------|
| | | | Reading | Level | | | | |
| 4824.00 | H | Peak | 31.01 | | 10.43 | 41.44 | 74 | -32.56 |
| 4824.00 | H | Average | | 22.65 | 10.43 | 33.08 | 54 | -20.92 |

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Operation Mode : 802.11n20 Test Date : 2016/5/21
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



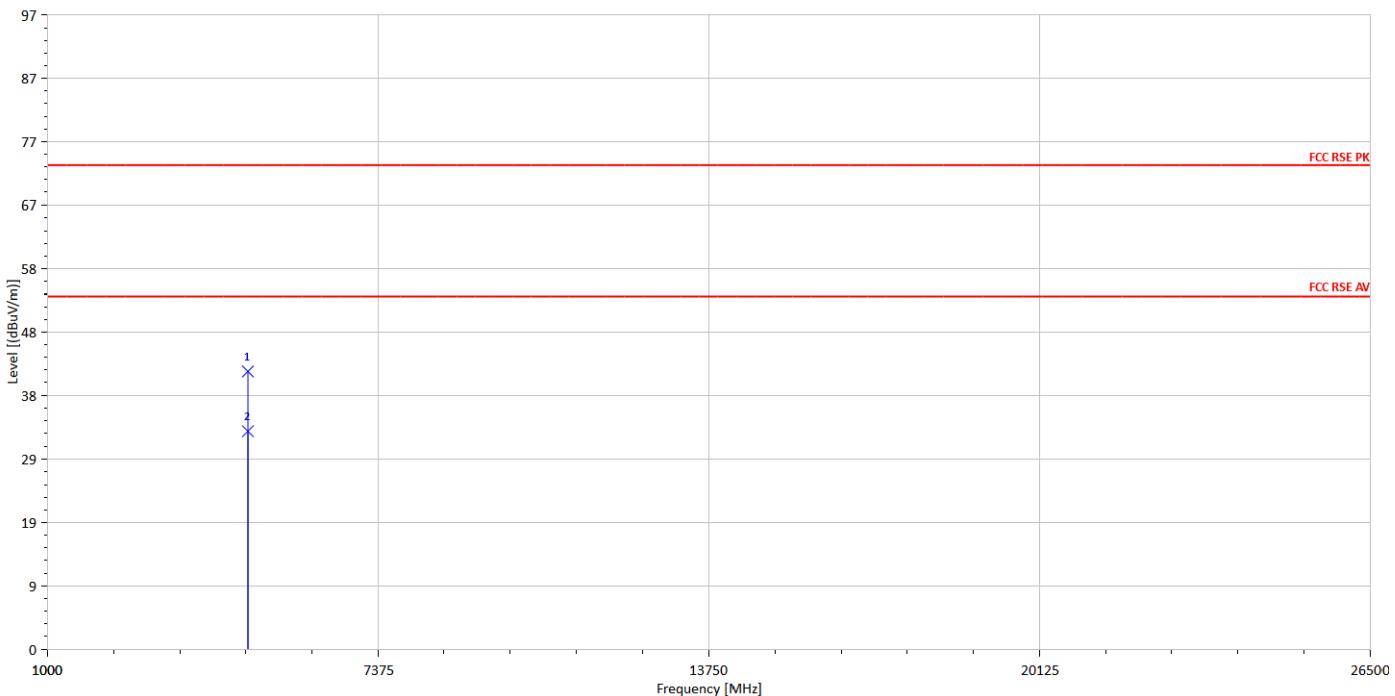
| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.00 | H | Peak | 32.74 | 10.66 | 43.40 | 74 | -30.60 |
| 4874.00 | H | Average | 23.75 | 10.66 | 34.41 | 54 | -19.59 |

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Operation Mode : 802.11n20 Test Date : 2016/5/21
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



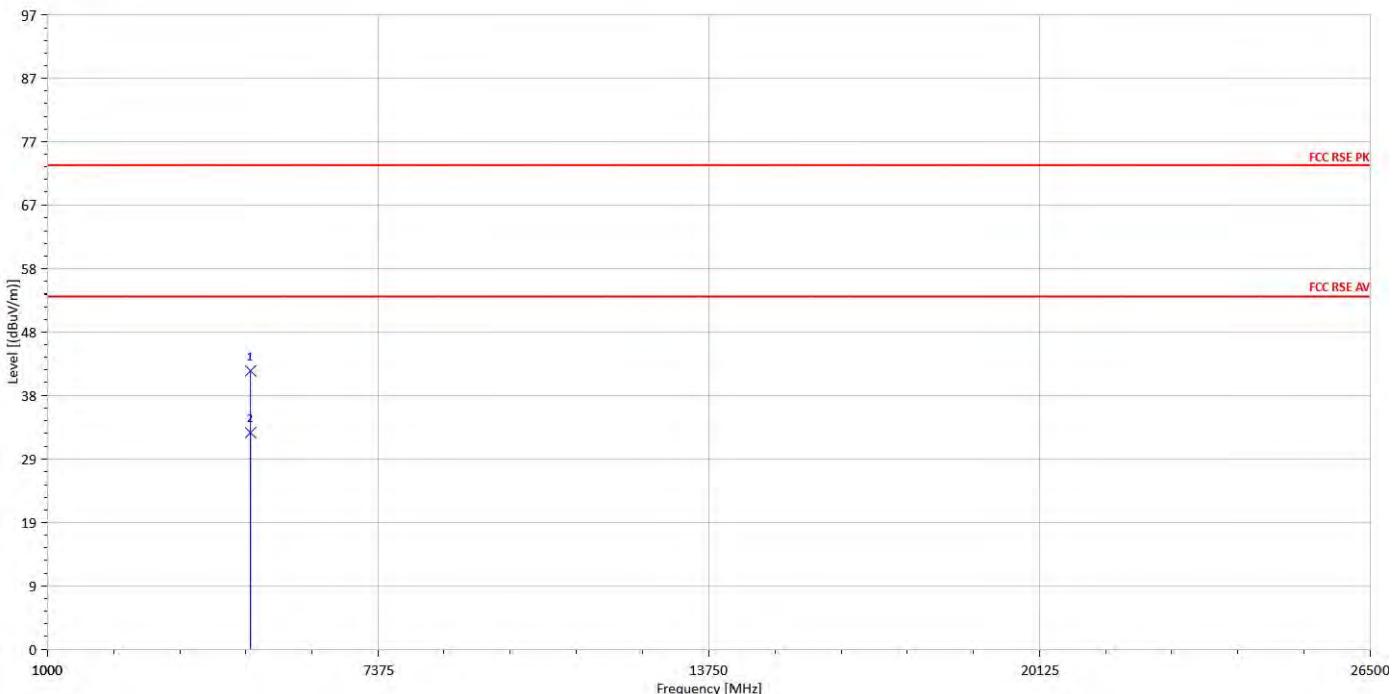
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | H | Peak | 31.78 | 10.66 | 42.44 | 74 | -31.56 |
| 4874.00 | H | Average | 22.69 | 10.66 | 33.35 | 54 | -20.65 |

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Operation Mode : 802.11n20 Test Date : 2016/5/21
 Fundamental Frequency : 2462MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



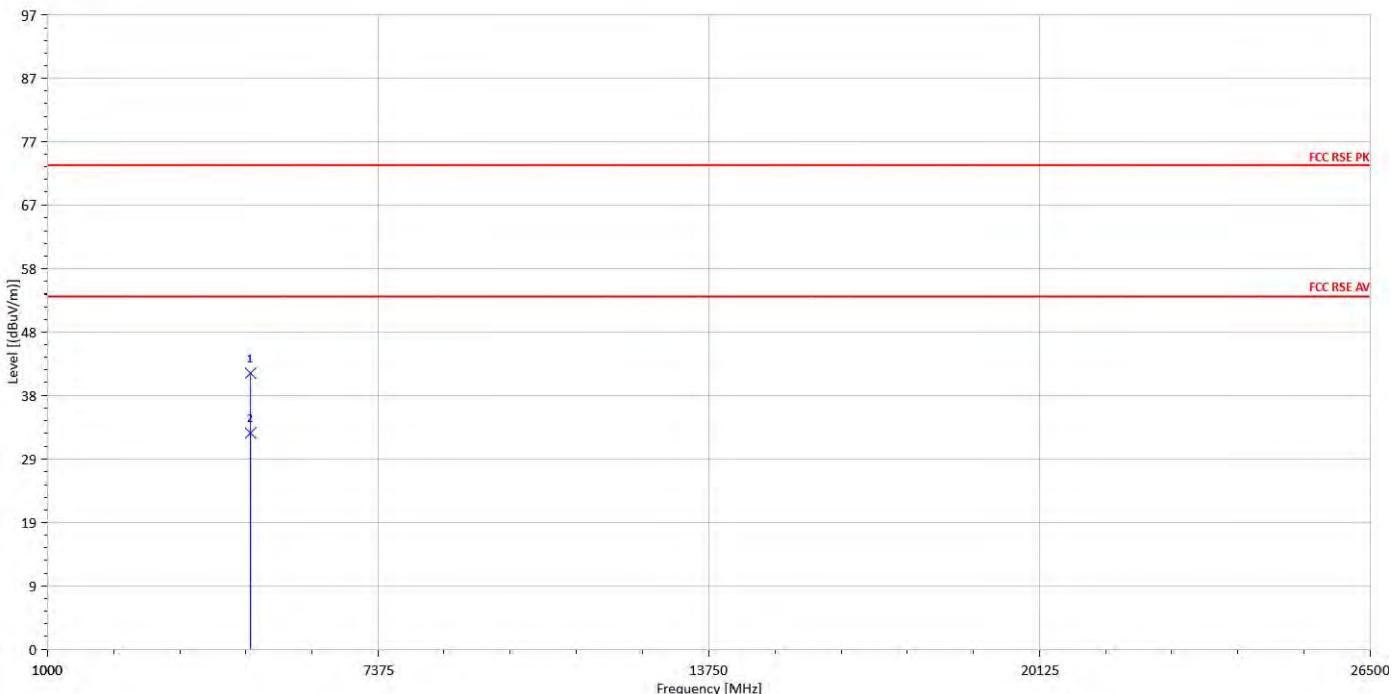
| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4924.00 | H | Peak | 31.95 | 10.57 | 42.52 | 74 | -31.48 |
| 4924.00 | H | Average | 22.56 | 10.57 | 33.13 | 54 | -20.87 |

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Operation Mode : 802.11n20 Test Date : 2016/5/21
 Fundamental Frequency : 2462MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4924.00 | H | Peak | 31.61 | 10.57 | 42.18 | 74 | -31.82 |
| 4924.00 | H | Average | 22.51 | 10.57 | 33.08 | 54 | -20.92 |

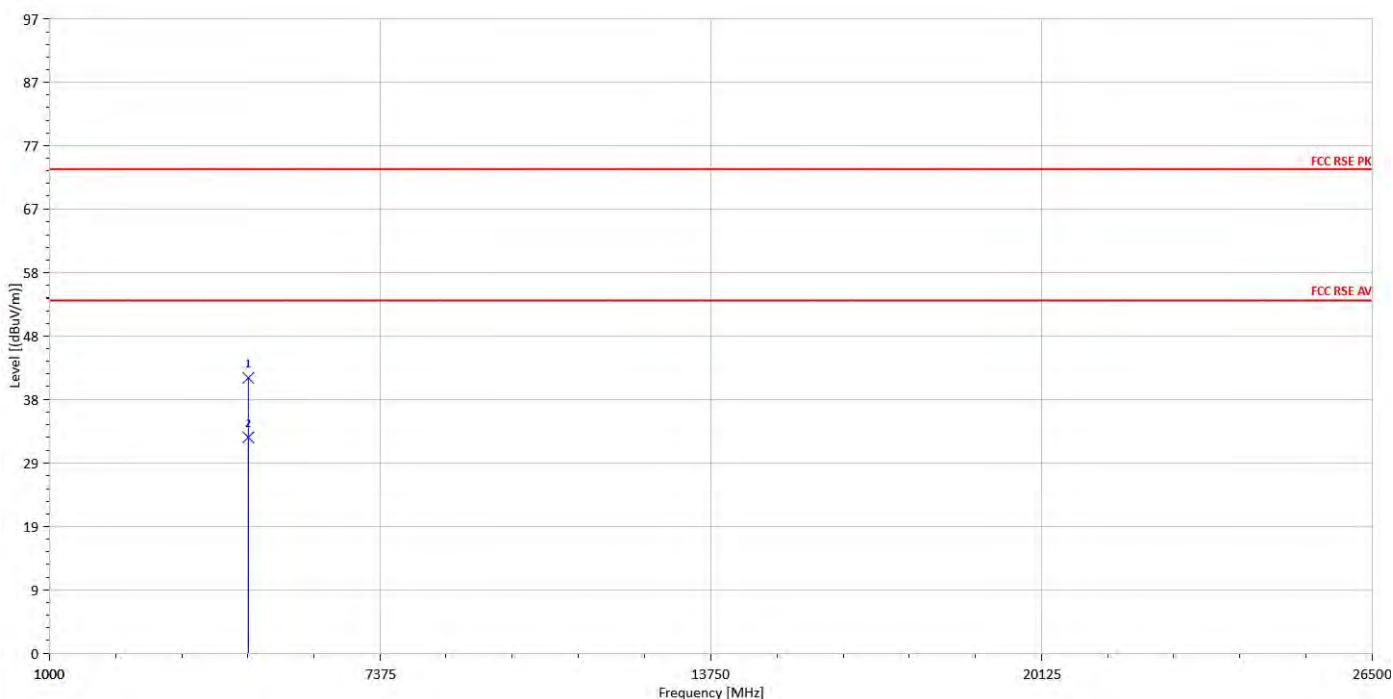
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Radiated Spurious Emission Measurement Result (802.11_HT40)

Operation Mode : 802.11n40 Test Date : 2016/5/21
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



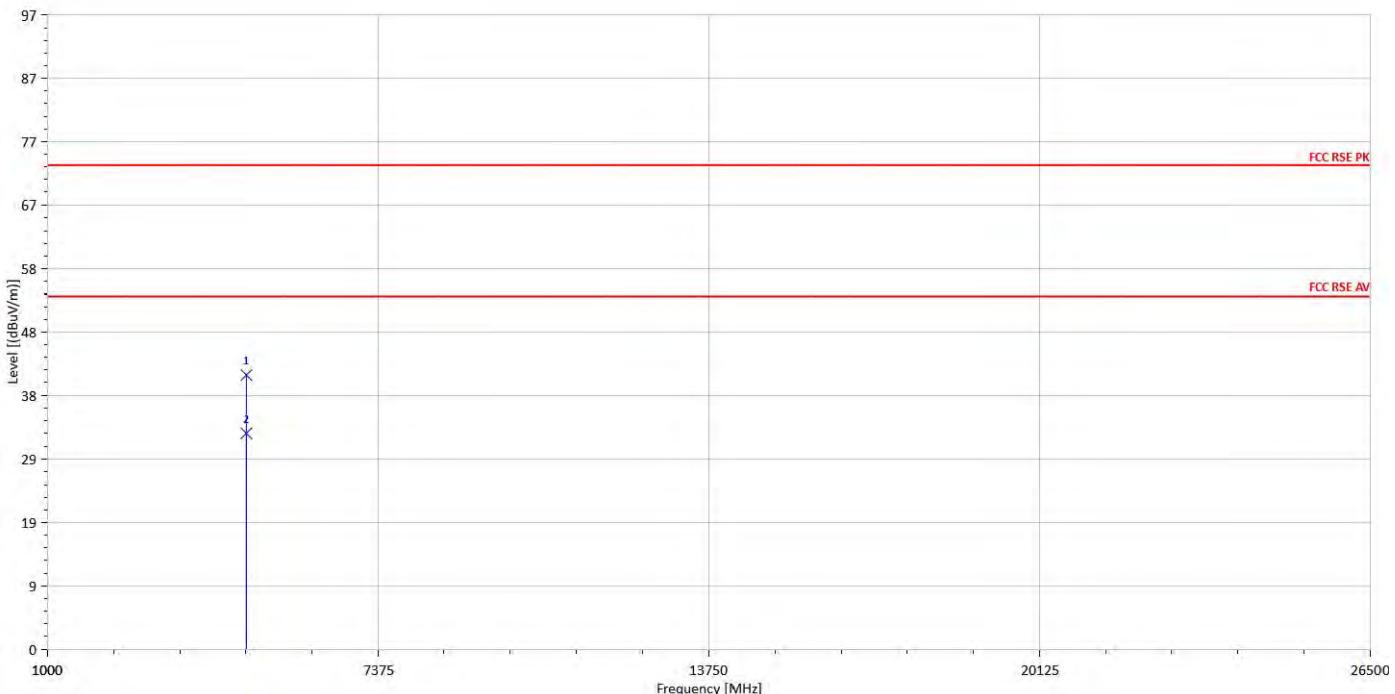
| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level dBµV | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4844.00 | H | Peak | 31.69 | 10.36 | 42.05 | 74 | -31.95 |
| 4844.00 | H | Average | 22.66 | 10.36 | 33.02 | 54 | -20.98 |

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Operation Mode : 802.11n40 Test Date : 2016/5/21
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Low Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



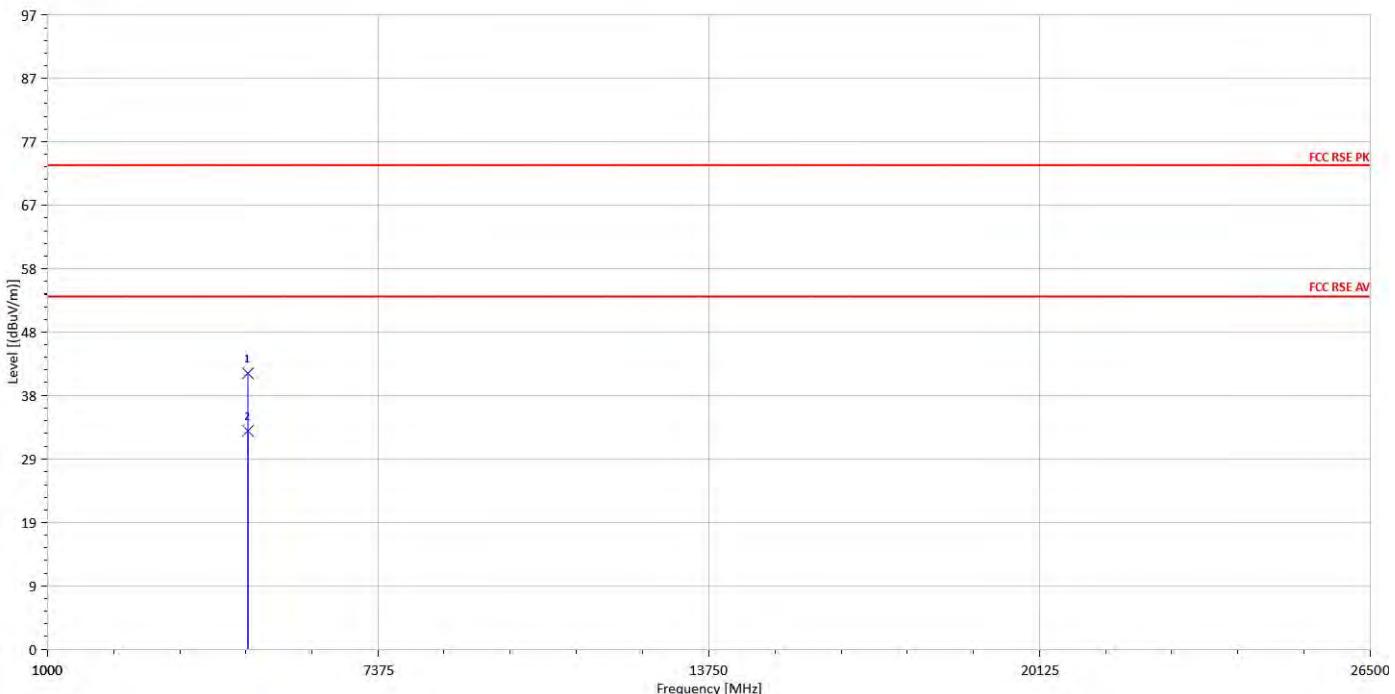
| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4844.00 | H | Peak | 31.53 | 10.36 | 41.89 | 74 | -32.11 |
| 4844.00 | H | Average | 22.66 | 10.36 | 33.02 | 54 | -20.98 |

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Operation Mode : 802.11n40 Test Date : 2016/5/21
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



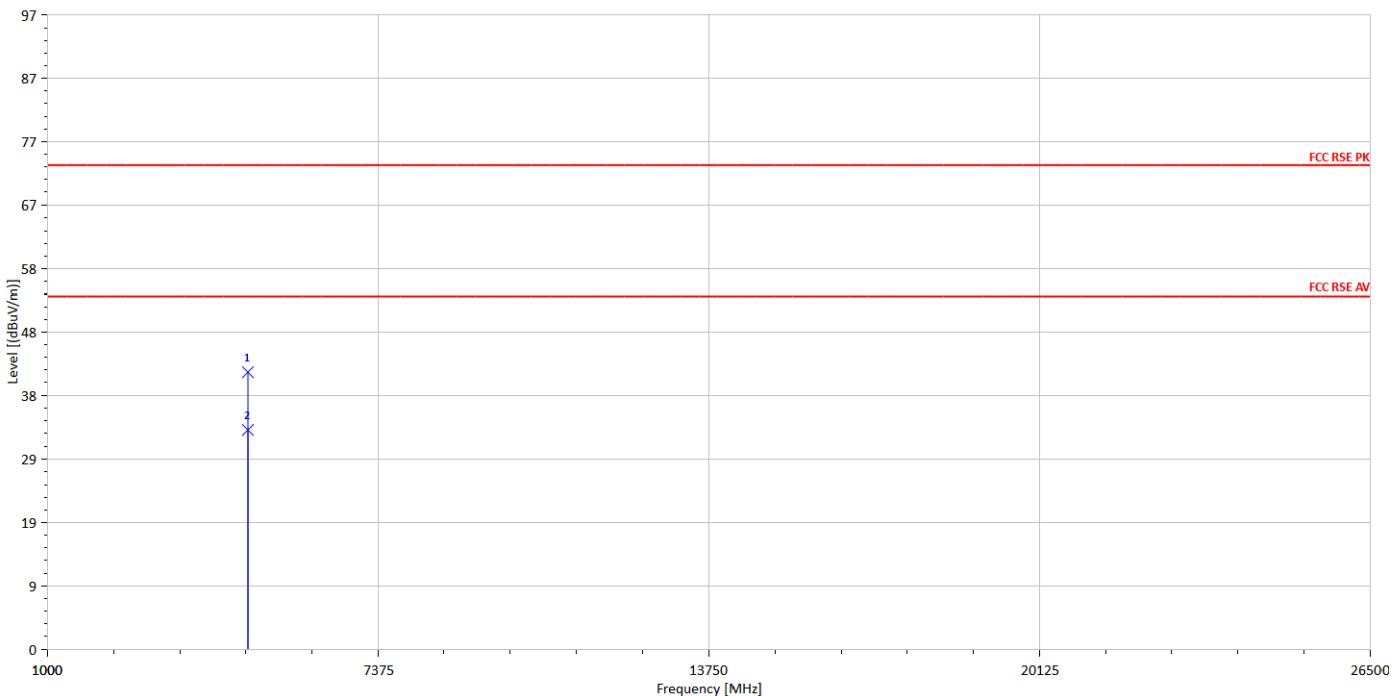
| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.00 | H | Peak | 31.48 | 10.66 | 42.14 | 74 | -31.86 |
| 4874.00 | H | Average | 22.74 | 10.66 | 33.40 | 54 | -20.60 |

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Operation Mode : 802.11n40 Test Date : 2016/5/21
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH Mid Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



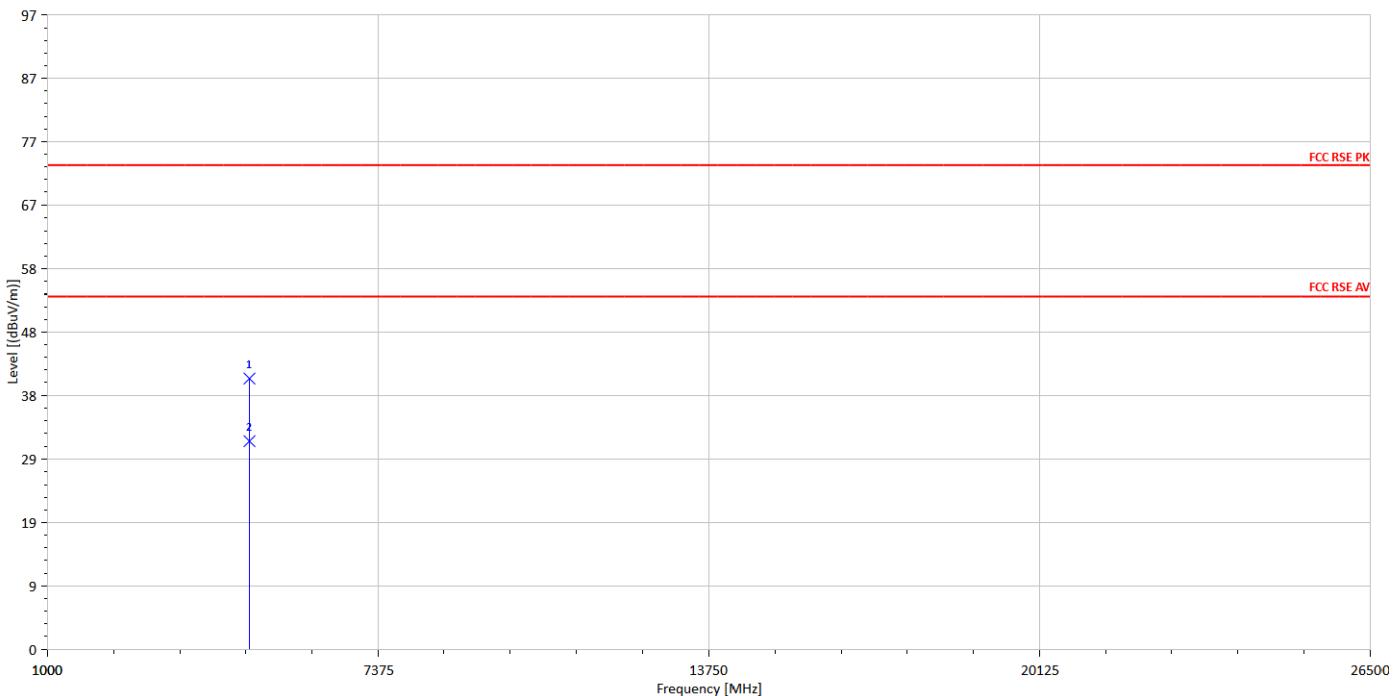
| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.00 | H | Peak | 31.65 | 10.66 | 42.32 | 74 | -31.68 |
| 4874.00 | H | Average | 22.89 | 10.66 | 33.55 | 54 | -20.45 |

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Operation Mode : 802.11n40 Test Date : 2016/5/21
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



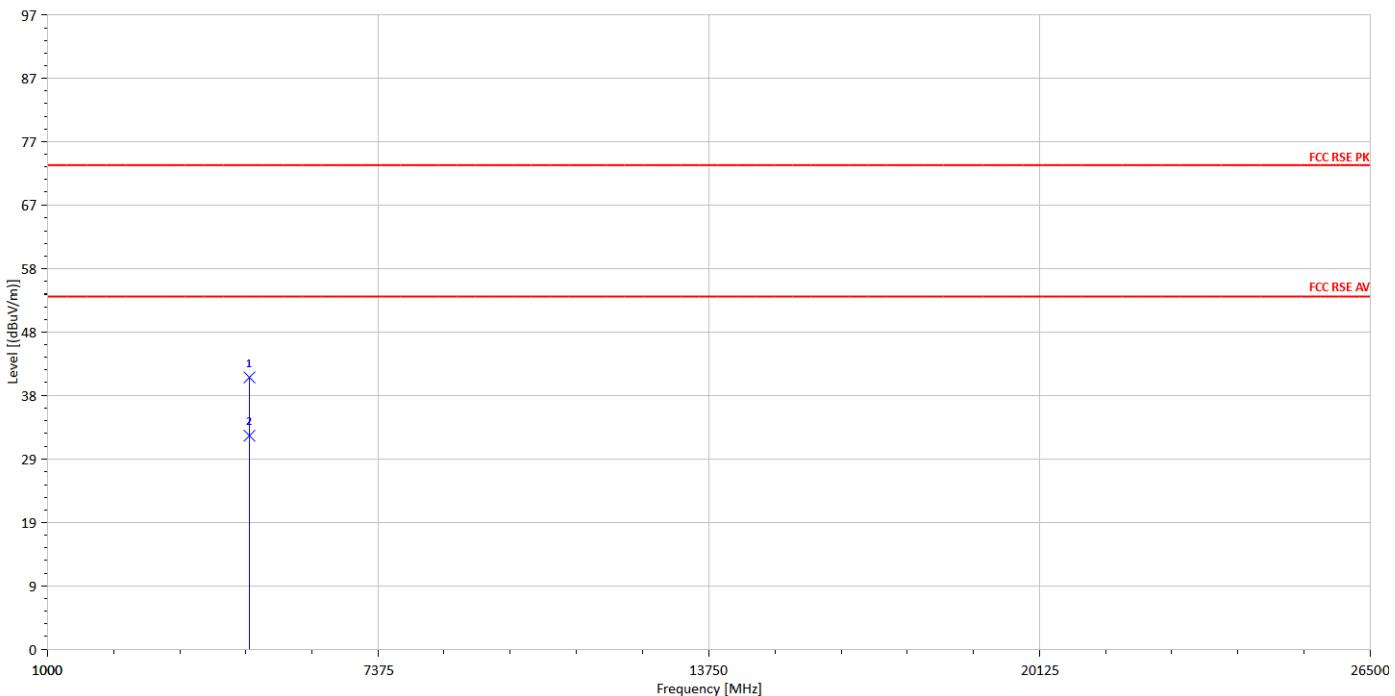
| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|---------|---------|---------------|------------------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4904.00 | H | Peak | 31.21 | 10.14 | 41.34 | 74 | -32.66 |
| 4904.00 | H | Average | 21.68 | 10.14 | 31.82 | 54 | -22.18 |

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Operation Mode : 802.11n40 Test Date : 2016/5/21
 Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : Tx CH High Test Engineer : Ashton
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. MHz | Note F/H/E/S | Detector Mode PK/QP/AV | Spectrum Reading Level | | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|-----------------|------------------------------|---------------------------|---------------------|--------------|------------------------------|------------------------------|--------------|
| | | | Reading | Level dB μ V | | | | |
| 4904.00 | H | Peak | 31.38 | 31.38 | 10.14 | 41.52 | 74 | -32.48 |
| 4904.00 | H | Average | 22.52 | 22.52 | 10.14 | 32.66 | 54 | -21.34 |

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12 PEAK POWER SPECTRAL DENSITY

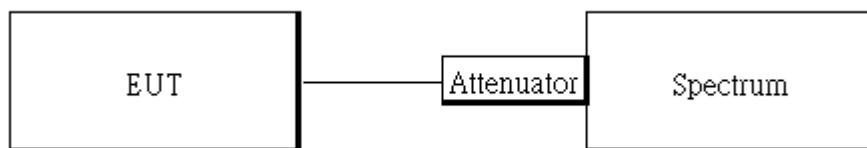
12.1 Standard Applicable

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2016 | 04/13/2017 |
| DC Block | PASTERNACK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| DC Power Supply | Agilent | E3640A | MY53140006 | 05/04/2016 | 05/03/2017 |

12.3 Test Set-up



12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz.
5. Set the VBW = 10 kHz.
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.

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12.5 Measurement Result

| POWER DENSITY 802.11b MODE | | | |
|----------------------------|------------------------|---------------------|--------|
| Frequency (MHz) | RF Power Density (dBm) | Maximum Limit (dBm) | Result |
| 2412 | -6.98 | 8.00 | PASS |
| 2437 | -7.56 | 8.00 | PASS |
| 2462 | -6.57 | 8.00 | PASS |

| POWER DENSITY 802.11g MODE | | | |
|----------------------------|------------------------|---------------------|--------|
| Frequency (MHz) | RF Power Density (dBm) | Maximum Limit (dBm) | Result |
| 2412 | -14.54 | 8.00 | PASS |
| 2437 | -12.21 | 8.00 | PASS |
| 2462 | -11.64 | 8.00 | PASS |

| POWER DENSITY 802.11n HT20 MODE | | | |
|---------------------------------|------------------------|---------------------|--------|
| Frequency (MHz) | RF Power Density (dBm) | Maximum Limit (dBm) | Result |
| 2412 | -13.63 | 8.00 | PASS |
| 2437 | -14.26 | 8.00 | PASS |
| 2462 | -12.18 | 8.00 | PASS |

| POWER DENSITY 802.11n HT40 MODE | | | |
|---------------------------------|------------------------|---------------------|--------|
| Frequency (MHz) | RF Power Density (dBm) | Maximum Limit (dBm) | Result |
| 2422 | -17.67 | 8.00 | PASS |
| 2437 | -16.53 | 8.00 | PASS |
| 2452 | -16.39 | 8.00 | PASS |

Note:

offset 10.70 dB

802.11b

Power Spectral Density Test Plot (CH-Low)



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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



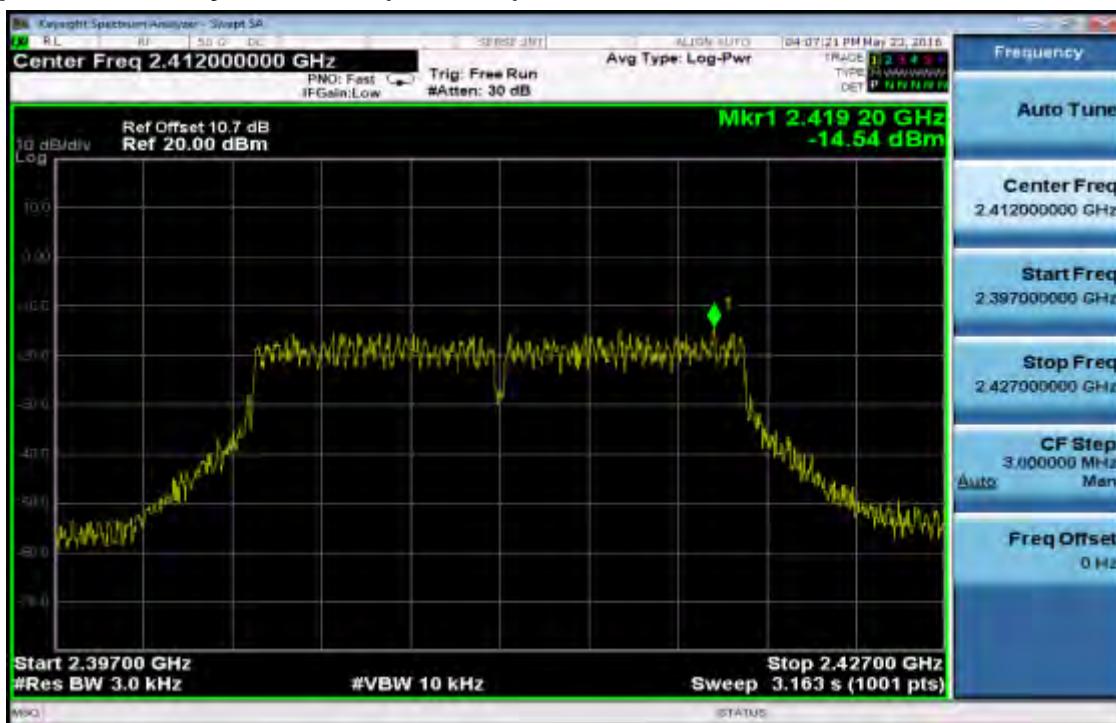
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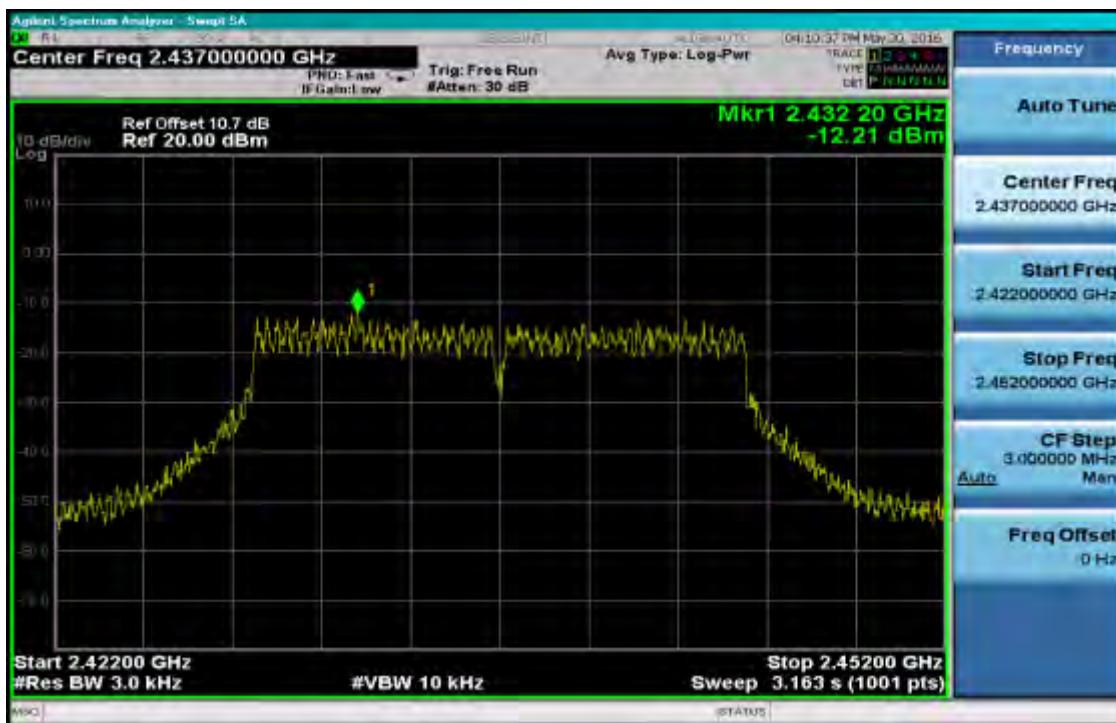
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802.11g

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



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Power Spectral Density Test Plot (CH-High)



802.11n-HT20

Power Spectral Density Test Plot (CH-Low)



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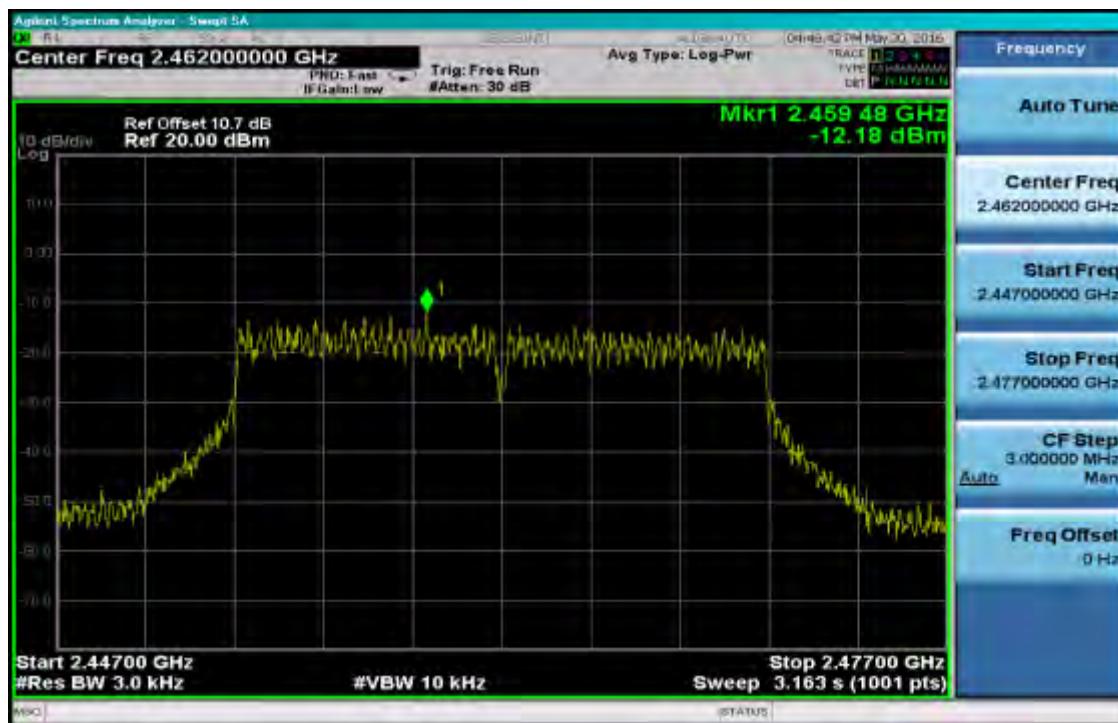
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Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



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台灣檢驗科技股份有限公司

t (886-2) 2299-3279

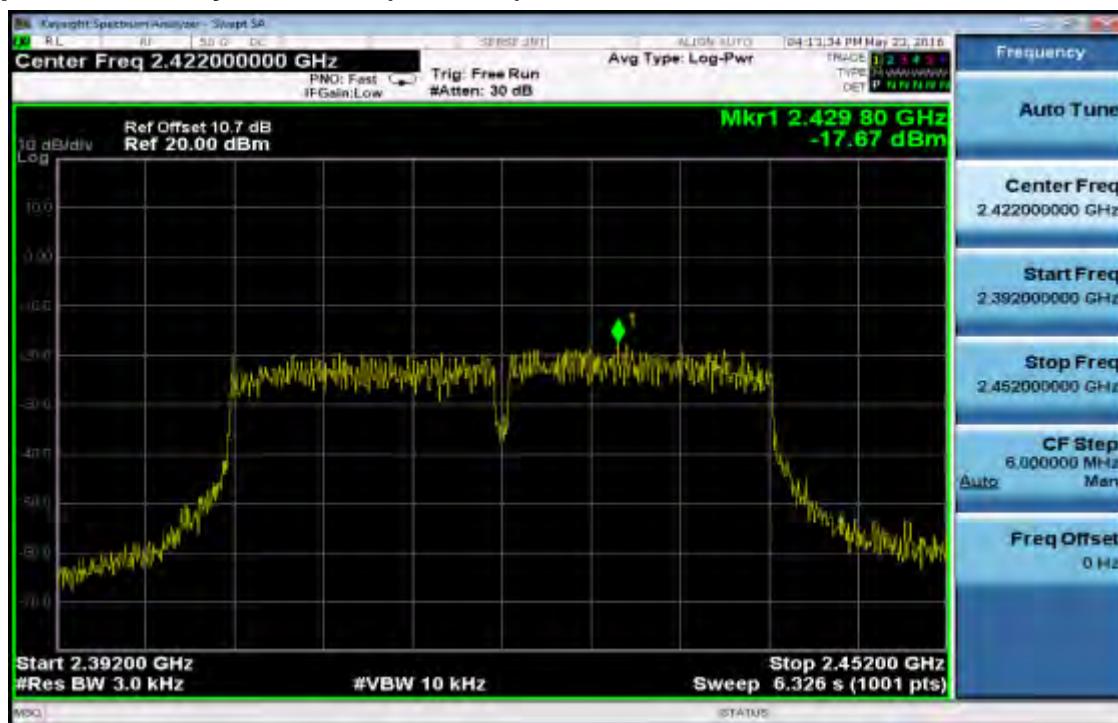
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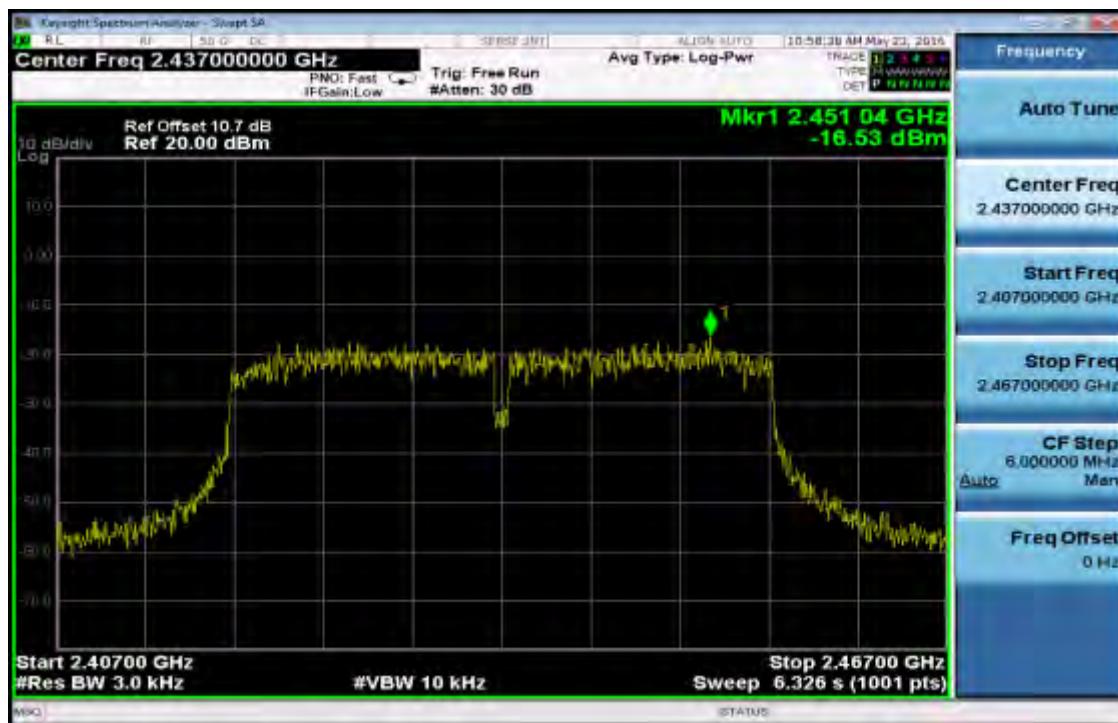
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802.11n_HT40

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

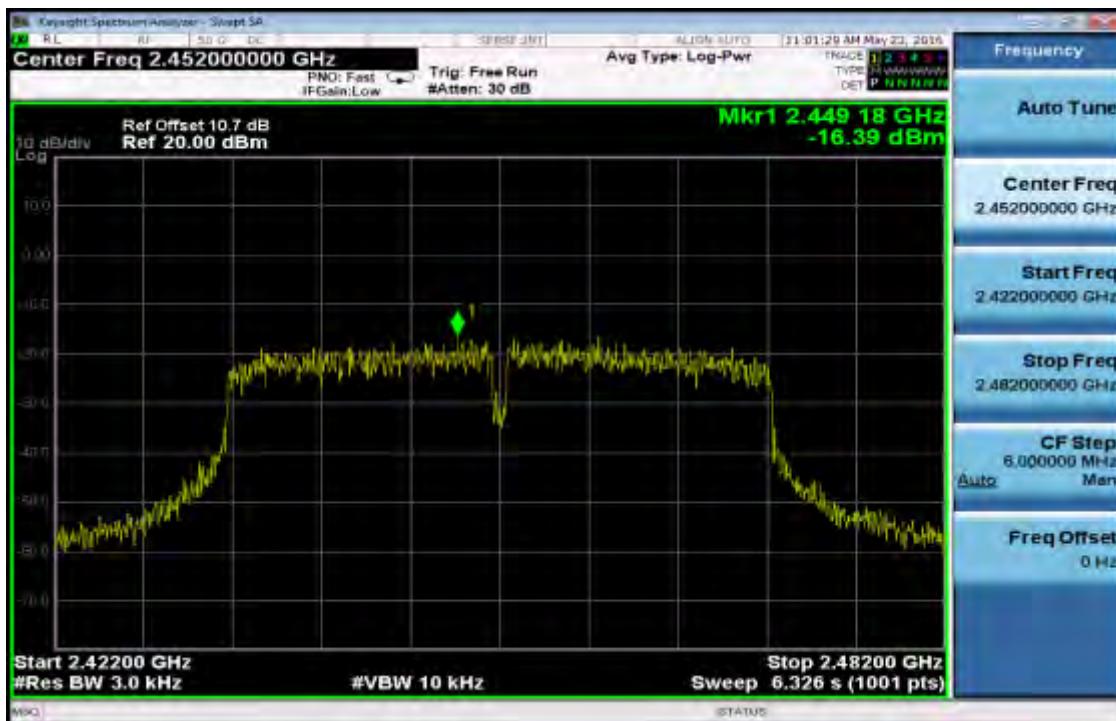


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Power Spectral Density Test Plot (CH-High)



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

~ End of Report ~

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