

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART E REQUIREMENT CLASS II PC REPORT OF

| | |
|-------------------------|---|
| Product Name of Host: | Tablet Computer |
| Brand Name of Host: | acer |
| Model No. of Host: | N15P1 |
| Marketing Name of Host: | SW3-013 |
| Product Name of Module: | 802.11abgn+BT4.0 module |
| Brand Name of Module: | FOXCONN |
| Model No. of Module: | T77H462 |
| Model Difference: | N/A |
| FCC ID: | MCLT77H462 |
| Report No.: | E2/2015/10017-02 |
| Issue Date: | Mar. 07, 2016 |
| FCC Rule Part: | §15.407 |
| Prepared for: | HON HAI PRECISION IND. CO., LTD 5F-1, 5 Hsin-An Road, Hsinchu Sci- ence-Based Industrial Park, Taiwan, R.O.C. |
| Prepared by: | SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan Dist., Taoyuan City, Taiwan 333 |



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VERIFICATION OF COMPLIANCE

Applicant: HON HAI PRECISION IND. CO., LTD
5F-1, 5 Hsin-An Road, Hsinchu Science-Based Industrial Park,
Taiwan, R.O.C.

Product Name of Host: Tablet Computer
Brand Name of Host: acer

Model No. of Host: P0KCC

Marketing Name of Host: SW3-013

Product Name of Module: 802.11abgn+BT4.0 module

Brand Name of Module: FOXCONN

Model No. of Module: T77H462

Model Difference: N/A

FCC ID: MCLT77H462

File Number: E2/2015/10017-02

Date of test: Feb. 17, 2016 ~ Mar. 04, 2016

Date of EUT Received: Feb. 17, 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:

Aken Huang

Date

Mar. 07, 2016

Aken Huang / Engineer**Prepared By:**

Tiffany Kao

Date

Mar. 07, 2016

Tiffany Kao / Clerk**Approved By:**

Jim Chang

Date

Mar. 07, 2016

Jim Chang / Asst. Manager

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Revision History

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1. GENERAL INFORMATION

1.1. Product Description

General:

| | | |
|-----------------------------|--|--|
| Product Name: | Tablet Computer | |
| Brand Name: |  | |
| Model No.: | P0KCC | |
| Marketing Name of Host: | SW3-013 | |
| Hardware Version: | R1.1 | |
| Software Version: | Win8.1 | |
| Model No. for Module: | T77H462 | |
| Module FCC ID: | MCLT77H462 | |
| Scope: | The test report covers the radiated emissions requirements of the standards referenced in the report to allow system level approval of the module in this specific host. | |
| Class II Permissive change: | For the requirement that certain National Information Infrastructure (U-NII) devices must comply with revised Section 15.407 rules in order to be certified. | |
| Power Supply: | 3.75Vdc form Rechargeable Li-ion Battery or 5.35Vdc from adapter | |
| | Battery: | Model No.: AP15A3R, Supplier: SANYO |
| | Adapter: | 1. Model No.:PA-1100-25, Supplier: LITEON 2. Model No.: ADP-10HW A, Supplier: DELTA |

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WLAN:

| Wi-Fi | Frequency Range | Channels | Rated Power (Avg.) | Modulation Technology |
|---------------------|-------------------|----------|---|-----------------------|
| 11a | 5725~5850 | 5 | 13.40dBm | OFDM |
| 11n | HT20 5725-5850 | 5 | n: 14.47dBm (MIMO) | OFDM |
| | HT40 5725-5850 | 2 | n: 13.81dBm (MIMO) | OFDM |
| Antenna Designation | | | PIFA Antenna 1. Antenna Main, Gain:0.24dBi 2. Antenna Aux, Gain:0.34dBi | |
| Modulation type | | | 64QAM, 16QAM, QPSK, BPSK for OFDM | |
| Transition Rate: | | | 802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 144Mbps 802.11 n_40MHz: 13.5 – 300Mbps | |

The EUT is compliance with IEEE 802.11 Standard.

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1.2. Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01

FCC KDB 662911 D01 Multiple Transmitter Output

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 the certification procedure.
3. The EUT was placed 1.5m height for frequency above 1GHz in accordance with ANSI C63.10:2013.

1.3. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd.,
Guishan Dist., Taoyuan City, Taiwan 333

(TAF code 0513)

FCC Registration Numbers are: 628985

1.4. Special Accessories

There are no special accessories used while test was conducted.

1.5. 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 30 MHz. 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.

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2.5. Configuration of Tested System

Fig. 2-1 Radiated Emission Configuration

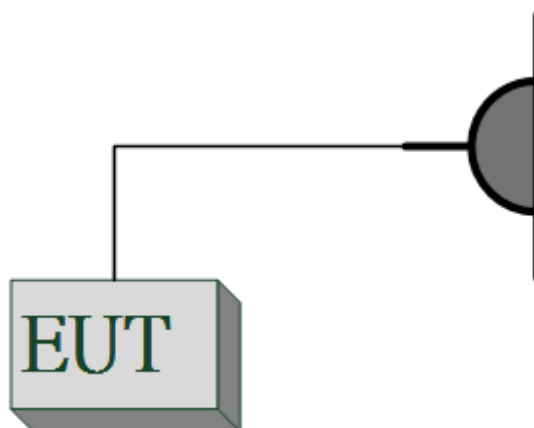


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|--------------------|-----------|----------------|------------|------------|------------|
| 1. | WLAN Test Software | N/A | N/A | N/A | N/A | N/A |

3. SUMMARY OF TEST RESULT

| FCC Rules | Description Of Test | Result |
|-----------------------|--------------------------------|-----------|
| §15.407(a) | Maximum Conducted Output Power | Compliant |
| §15.407(b) | Undesirable Radiated Emissions | Compliant |
| §15.203 §15.407(a) | Antenna Requirement | Compliant |

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4. DESCRIPTION OF TEST MODES

4.1 Operated in U-NII Bands

Operated band in 5725 MHz ~5850 MHz:

5 channels are provided for 802.11a, 802.11n_HT20

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 149 | 5745 MHz | 161 | 5805 MHz |
| 153 | 5765 MHz | 165 | 5825 MHz |
| 157 | 5785 MHz | | |

2 channels are provided for 802.11n_HT40

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 151 | 5755 MHz | 159 | 5795 MHz |

RADIATED EMISSION TEST:

| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | | |
|--------------------------------------|----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a | 5745~5825 | 149 to 165 | 157 | OFDM | 6 | AUX |
| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | | |
| MODE | FREQUENCY BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11a | 5745~5825 | 149 to 165 | 149,157,165 | OFDM | 6 | AUX |
| 802.11n_HT20 | | | | OFDM | MCS8 | MIMO |
| 802.11n_HT40 | 5755~5795 | 151 to 159 | 151,159 | OFDM | MCS8 | MIMO |

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11a/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) | ANTENNA PORT |
| 802.11a | 149 to 165 | 149,157,165 | OFDM | 6 | Aux |
| 802.11n_HT20 | 149 to 165 | 149,157,165 | OFDM | MCS8 | MIMO |
| 802.11n_HT40 | 151 to 159 | 151,159 | OFDM | MCS8 | MIMO |

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5. MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|-------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| 6 dB Emission Bandwidth | +/- 123.36 Hz |
| The Maximum Output Power Measurement | +/- 1.42 dB |
| Peak Power Spectral Density Measurement | +/- 1.55 dB |
| Frequency Stability | +/- 123.36 Hz |
| Temperature | +/- 0.8 °C |
| Humidity | +/- 4.7 % |
| DC / AC Power Source | DC= +/- 1%, AC=+/- 0.2% |

Radiated Spurious Emission:

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Vertical) | 9kHz-30MHz: +/-2.87dB |
| | 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) | 9kHz-30MHz: +/-2.87dB |
| | 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. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

6.1 Standard Applicable

| OPERATION Band | EUT CATEGORY | | LIMIT |
|-------------------|--------------|-----------------------------------|-----------------------------------|
| U-NII-1 | | Access Point (Mater device) | 1 Watt(30dBm) |
| | | Fixed point-to-point Access Point | 1 Watt(30dBm) |
| | | Mobile and portable client device | 250mW(23.98dBm) |
| U-NII-2A | | | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-2C | | | 250mW(23.98dBm) or 11dBm+10 log B |
| U-NII-3 | ✓ | | 1 Watt(30dBm) |

If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note: Directional gain = gain of antenna element + 10 log (# of TX antenna elements)

6.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
3. Set the offset $10 \cdot \log(1/x)$, $n_{HT20}=0.10$, $n_{HT40}=0.12$
4. Record the max. reading.
5. Repeat above procedures until all frequency (low, middle, and high channel) measured were complete.
6. Employing step 1 to 4 obtaining per-chain basis in MIMO operation, and sum the power in linear to result the output of MIMO operation at frequency of interest (, where MIMO is applicable).

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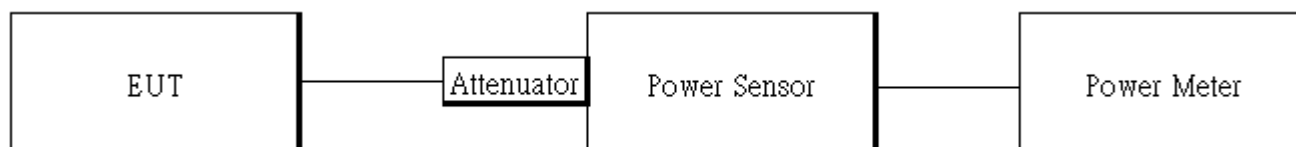
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6.3 Measurement Equipment Used:

| SGS Conducted Room | | | | | |
|-----------------------|-----------|--------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | KEYSIGHT | N9010A | MY54510568 | 04/14/2015 | 04/13/2016 |
| 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 | 00100A1F1A 195C | RF01 | 12/12/2015 | 12/11/2016 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/12/2015 | 12/11/2016 |
| Splitter | RF-LAMBDA | RFLT2W1G1 8G | RF35 | 12/12/2015 | 12/11/2016 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/12/2015 | 12/11/2016 |
| Temperature Chamber | TERCHY | MHK-120LK | 1020582 | 06/23/2015 | 06/22/2016 |

6.4 Test Set-up:



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6.5 Measurement Result (Worst case)

802.11a (Main)

| CH | Frequency (MHz) | Avg. Output Power | | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| | | TOTAL POWER (dBm) | TOTAL POWER (mW) | | |
| 149 | 5745 | 13.25 | 21.135 | 30 | PASS |
| 157 | 5785 | 13.36 | 21.677 | 30 | PASS |
| 165 | 5825 | 13.15 | 20.654 | 30 | PASS |

802.11a (Aux)

| CH | Frequency (MHz) | Avg. Output Power | | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------|------------------|----------------------|--------|
| | | TOTAL POWER (dBm) | TOTAL POWER (mW) | | |
| 149 | 5745 | 13.36 | 21.677 | 30 | PASS |
| 157 | 5785 | 13.40 | 21.878 | 30 | PASS |
| 165 | 5825 | 13.20 | 20.893 | 30 | PASS |

802.11n_20M (MIMO)

| CH | Frequency (MHz) | Avg. Output Power (dBm) | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------------|---------|-------------------|------------------|----------------------|--------|
| | | CHAIN 0 | CHAIN 1 | | | | |
| 149 | 5745 | 10.80 | 12.03 | 14.47 | 27.981 | 30 | PASS |
| 157 | 5785 | 10.80 | 12.01 | 14.46 | 27.908 | 30 | PASS |
| 165 | 5825 | 10.81 | 11.94 | 14.42 | 27.682 | 30 | PASS |

802.11n_40M (MIMO)

| CH | Frequency (MHz) | Avg. Output Power (dBm) | | TOTAL POWER (dBm) | TOTAL POWER (mW) | REQUIRED LIMIT (dBm) | RESULT |
|-----|-----------------|-------------------------|---------|-------------------|------------------|----------------------|--------|
| | | CHAIN 0 | CHAIN 1 | | | | |
| 151 | 5755 | 8.78 | 10.12 | 12.51 | 17.831 | 30 | PASS |
| 159 | 5795 | 10.10 | 11.41 | 13.81 | 24.069 | 30 | PASS |

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7. UNDESIRABLE EMISSION - RADIATED MEASUREMENT

7.1 Standard Applicable

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

1. For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
2. For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
3. For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
4. For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

| APPLICABLE TO | LIMIT | |
|--|--|--|
| FCC KDB 789033 D02 General UNII Test Procedures New Rules v01r01 | FIELD STRENGTH AT 3m | |
| | PK: 74 (dBμV/m) | AV 54 (dBμV/m) |
| APPLICABLE TO | EIRP LIMIT | FIELD STRENGTH AT 3m |
| 15.407(b)(1) | PK: -27 (dBm/MHz) | PK: 68.3 (dBμV/m) |
| 15.407(b)(2) | | |
| 15.407(b)(3) | | |
| 15.407(b)(4) | PK: -27 (dBm/MHz) PK: -17 (dBm/MHz) | PK: 68.3 (dBμV/m) PK: 78.2 (dBμV/m) |

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

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Unwanted spurious emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table:

| 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 (dBμV/m) = 20 log Emission level (dBμV/m)

7.2 Measurement Equipment Used:

| 966 Chamber | | | | | |
|-------------------|-----------------------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI7 | 100760 | 05/04/2015 | 05/03/2016 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 01/28/2016 | 01/27/2017 |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 09/07/2015 | 09/06/2016 |
| Bilog Antenna | SCHWAZBECK | VULB9168 | 378 | 12/14/2015 | 12/13/2016 |
| Horn antenna | ETS.LINDGREN | 3117 | 123995 | 05/05/2015 | 05/04/2016 |
| Pre-Amplifier | Agilent | 8447D | 2944A07676 | 01/02/2016 | 01/01/2017 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 01/02/2016 | 01/01/2017 |
| Turn Table | HD | DT420 | N/A | N.C.R | N.C.R |
| Antenna Tower | ChamPro | AM-BS-4500-B | 060776-ABS | N.C.R | N.C.R |
| Controller | ChamPro | EM1000 | 60776 | N.C.R | N.C.R |
| Low Loss Cable | Huber Suhner | 966_RX | 9 | 01/02/2016 | 01/01/2017 |
| 3m Site NSA | SGS | 966 chamber | N/A | 07/02/2015 | 07/01/2016 |
| Low Loss Cable | Huber Suhner | 966 TX | 1 | 01/02/2016 | 01/01/2017 |

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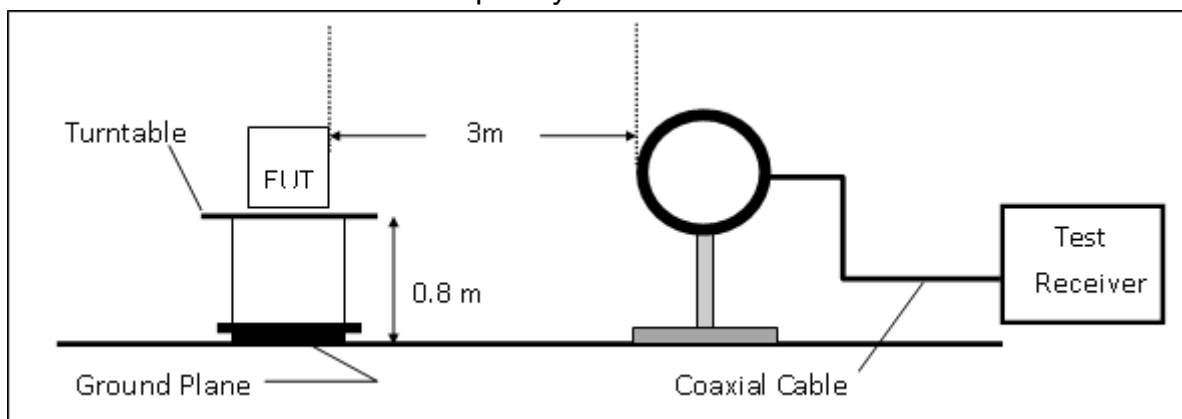
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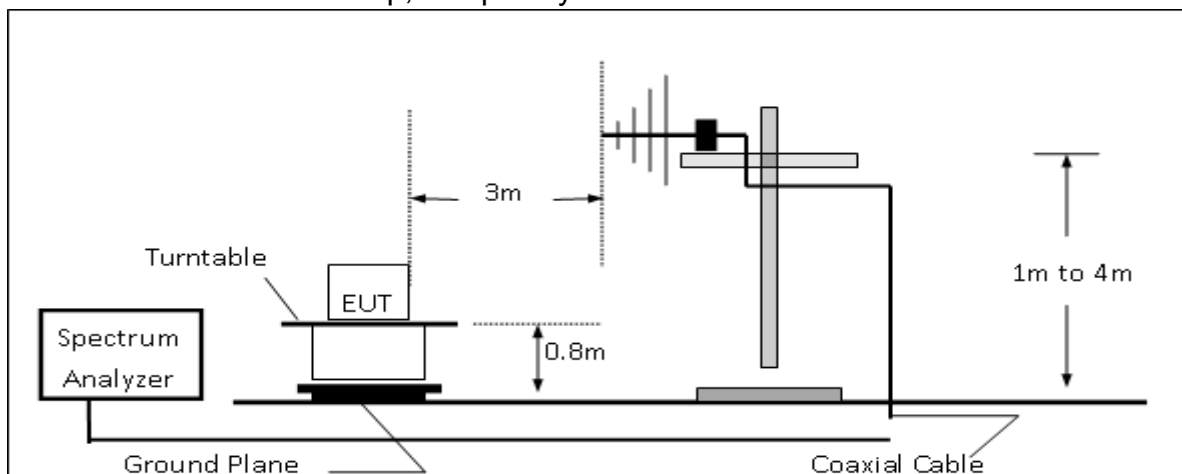
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7.3 Test SET-UP

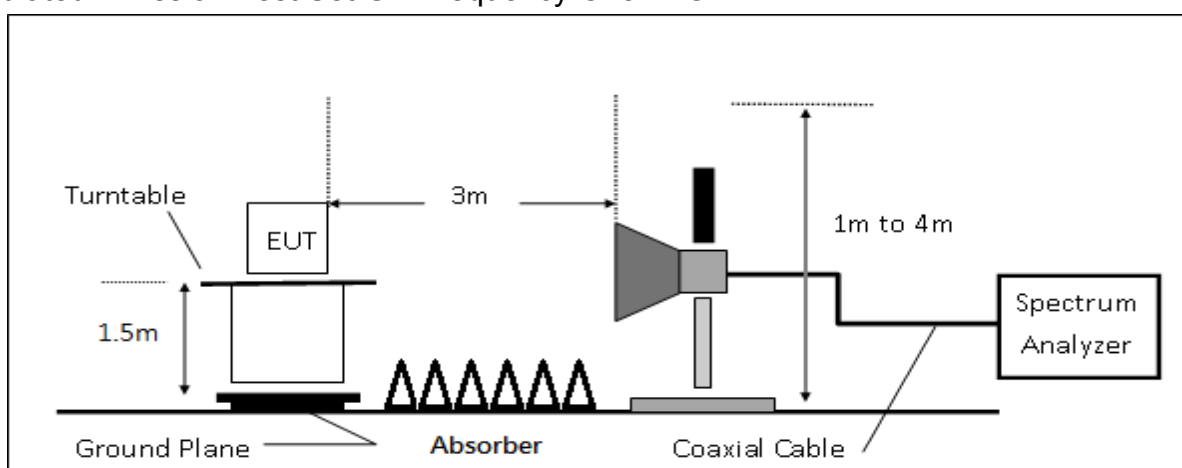
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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7.4 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v01.
3. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
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. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

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7.5 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:

$$FS = RA + AF + CL - AG$$

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

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

Factor(dB) = Antenna Factor(dBμV/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.

7.6 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.

7.7 Measurement Result

Refer to attach tabular data sheets.

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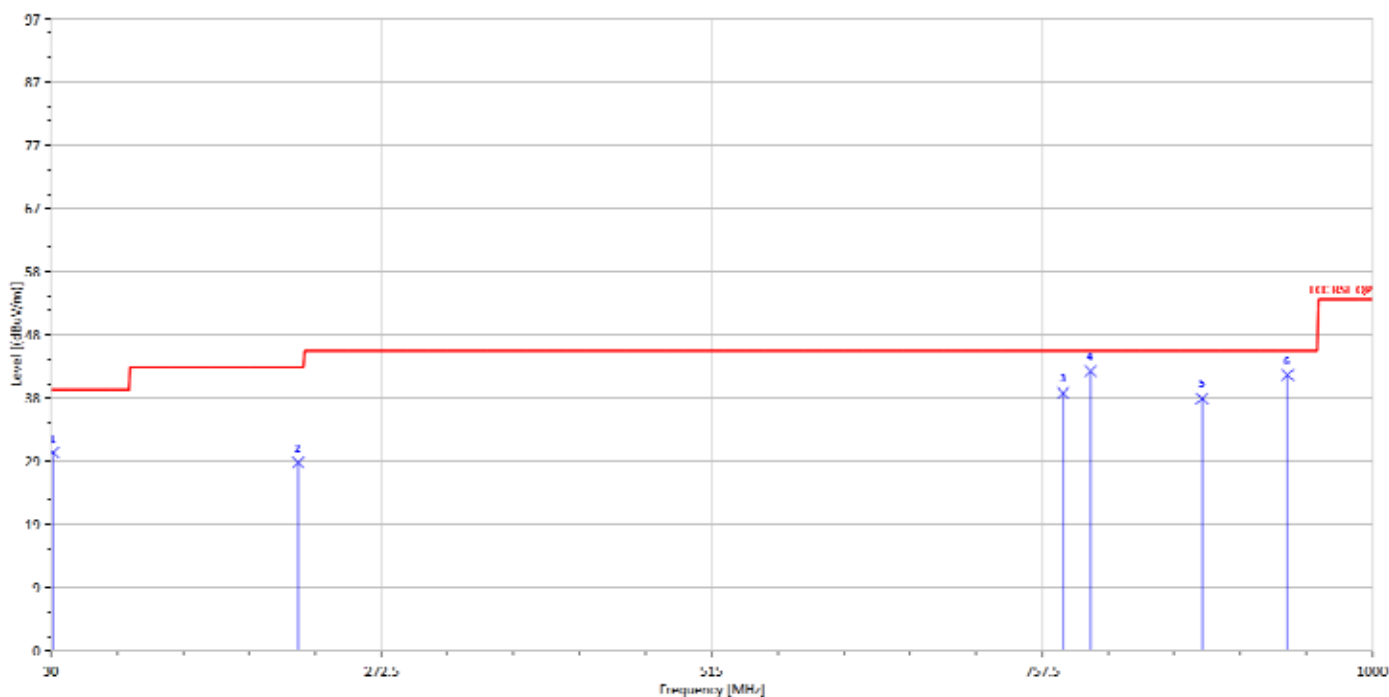
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 31.94 | S | Peak | 38.58 | -8.22 | 30.36 | 40 | -9.64 |
| 211.39 | S | Peak | 45.92 | -17.10 | 28.82 | 43.5 | -14.68 |
| 773.02 | S | Peak | 44.14 | -4.59 | 39.55 | 46 | -6.45 |
| 793.39 | S | Peak | 47.03 | -4.17 | 42.86 | 46 | -3.14 |
| 874.87 | S | Peak | 41.53 | -2.78 | 38.75 | 46 | -7.25 |
| 937.92 | S | Peak | 43.97 | -1.71 | 42.26 | 46 | -3.74 |

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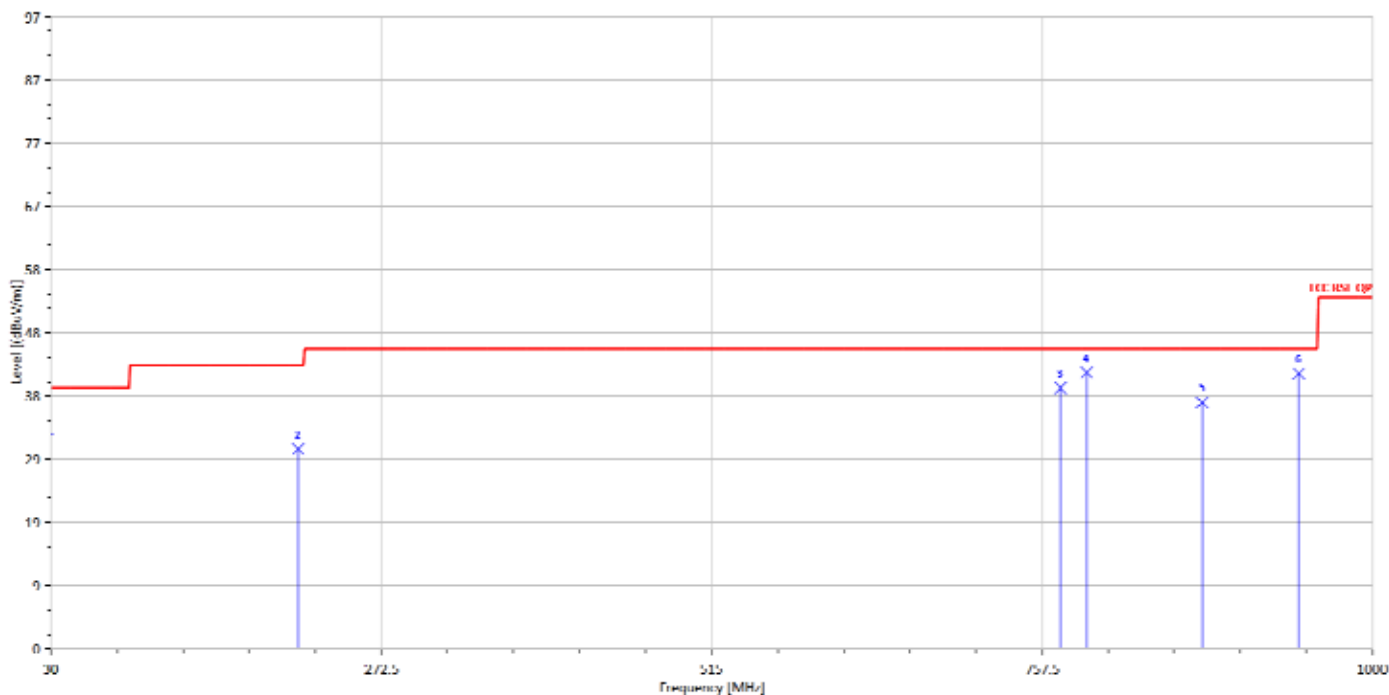
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Operation Mode : 802.11a Test Date : 2016/2/24
Fundamental Frequency : 5785 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Mid Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.00 | S | Peak | 38.37 | -7.18 | 31.19 | 40 | -8.81 |
| 211.39 | S | Peak | 47.72 | -17.10 | 30.62 | 43.5 | -12.88 |
| 771.08 | S | Peak | 44.36 | -4.35 | 40.02 | 46 | -5.98 |
| 790.48 | S | Peak | 46.46 | -4.13 | 42.33 | 46 | -3.67 |
| 874.87 | S | Peak | 40.60 | -2.78 | 37.82 | 46 | -8.18 |
| 945.68 | S | Peak | 43.99 | -1.82 | 42.17 | 46 | -3.83 |

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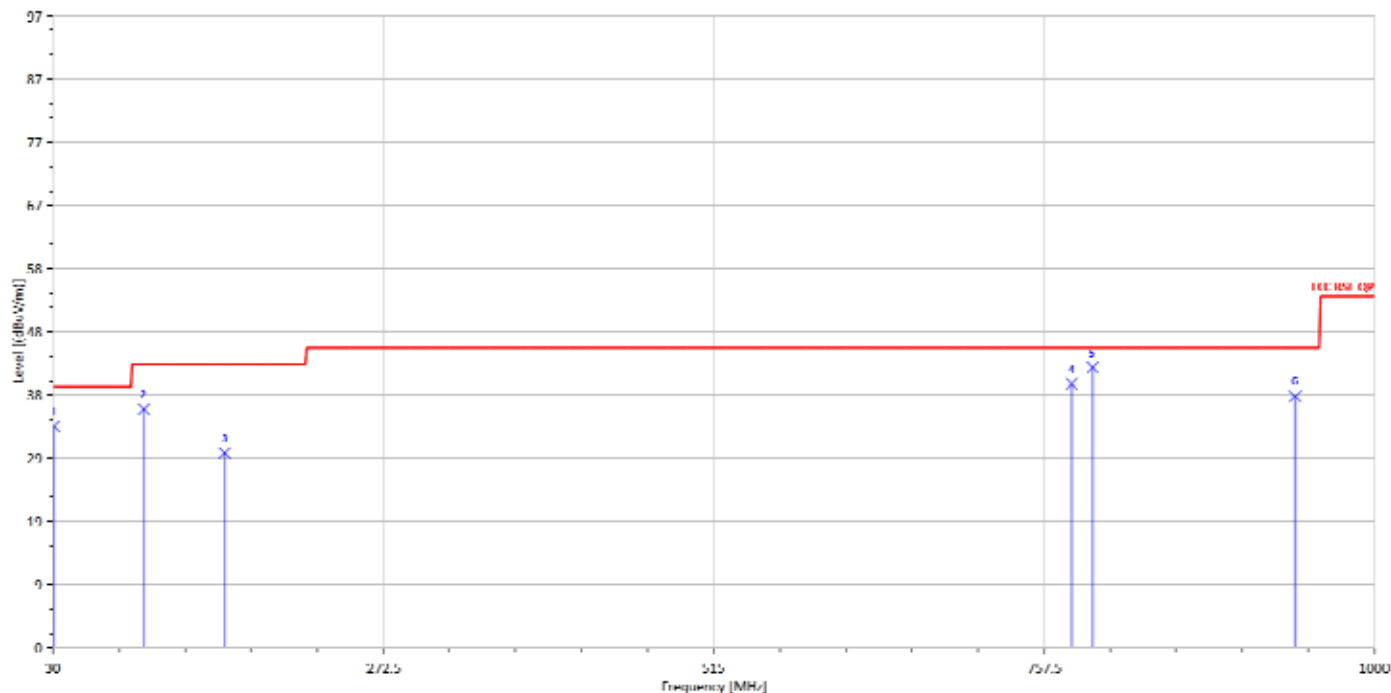
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5755 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 30.97 | S | Peak | 41.69 | -7.70 | 33.99 | 40 | -6.01 |
| 96.93 | S | Peak | 54.89 | -18.27 | 36.62 | 43.5 | -6.88 |
| 156.10 | S | Peak | 46.98 | -17.14 | 29.84 | 43.5 | -13.66 |
| 777.87 | S | Peak | 45.03 | -4.56 | 40.47 | 46 | -5.53 |
| 793.39 | S | Peak | 47.13 | -4.17 | 42.96 | 46 | -3.04 |
| 941.80 | S | Peak | 40.58 | -1.97 | 38.60 | 46 | -7.40 |

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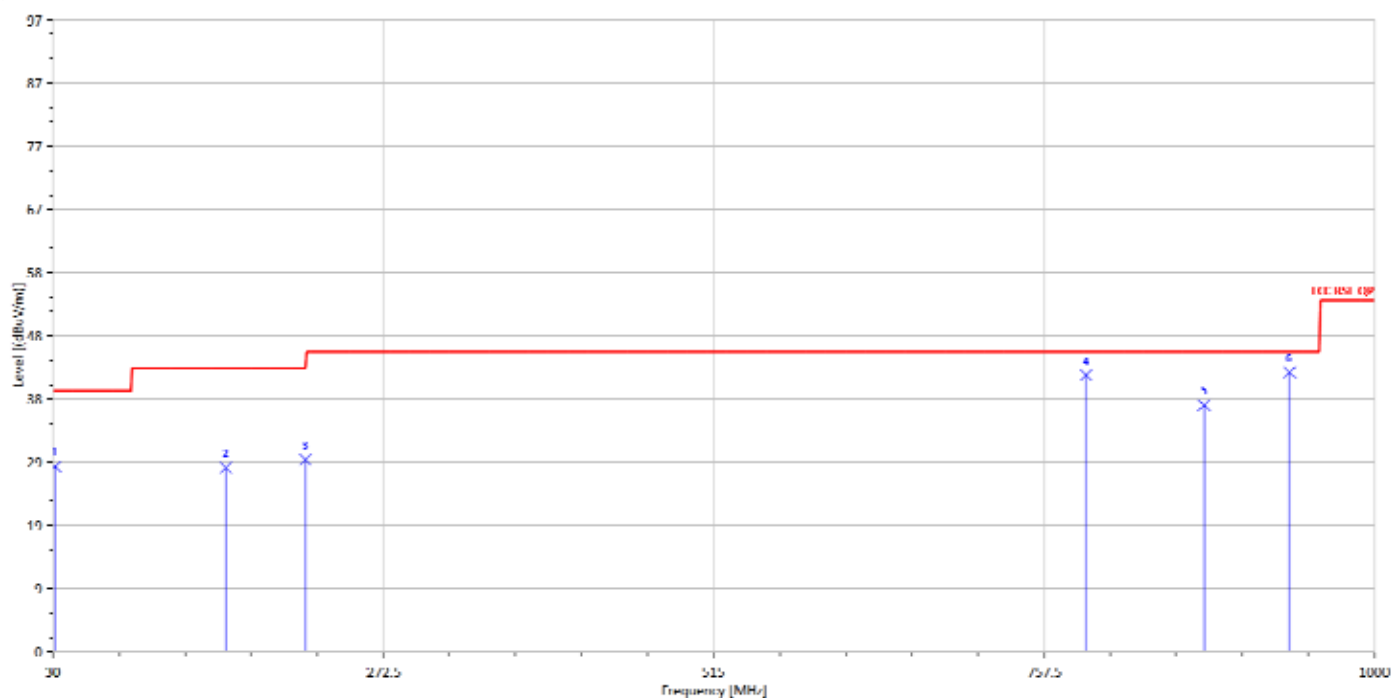
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Operation Mode : 802.11n40 Test Date : 2016/2/24
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 31.94 | S | Peak | 36.56 | -8.22 | 28.34 | 40 | -11.66 |
| 157.07 | S | Peak | 45.39 | -17.22 | 28.17 | 43.5 | -15.33 |
| 215.27 | S | Peak | 46.56 | -17.14 | 29.42 | 43.5 | -14.08 |
| 788.54 | S | Peak | 46.76 | -4.37 | 42.39 | 46 | -3.61 |
| 874.87 | S | Peak | 40.66 | -2.78 | 37.89 | 46 | -8.11 |
| 937.92 | S | Peak | 44.53 | -1.71 | 42.82 | 46 | -3.18 |

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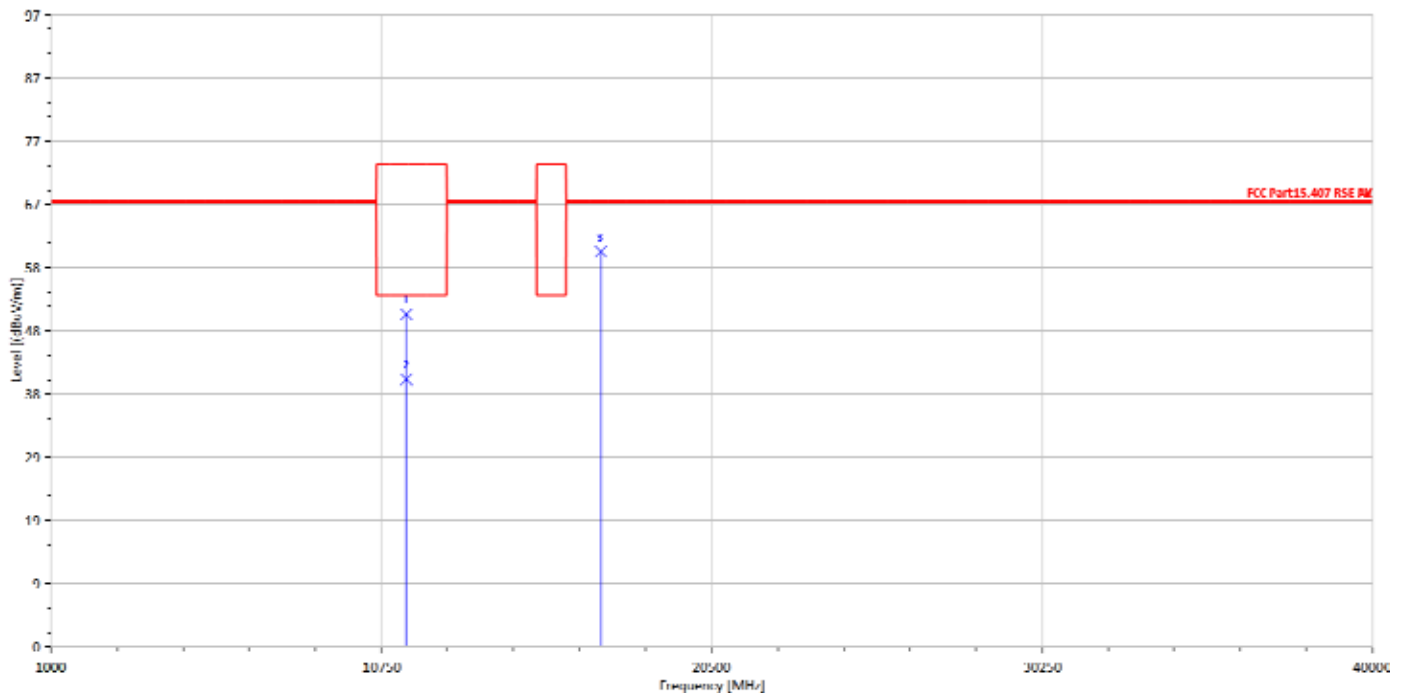
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Above 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result 802.11a, 5725~5850 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11490.00 | H | Peak | 32.67 | 18.39 | 51.06 | 74 | -22.94 |
| 11490.00 | H | Average | 22.60 | 18.39 | 40.99 | 54 | -13.01 |
| 17235.00 | H | Peak | 32.78 | 27.84 | 60.63 | 68.3 | -7.67 |

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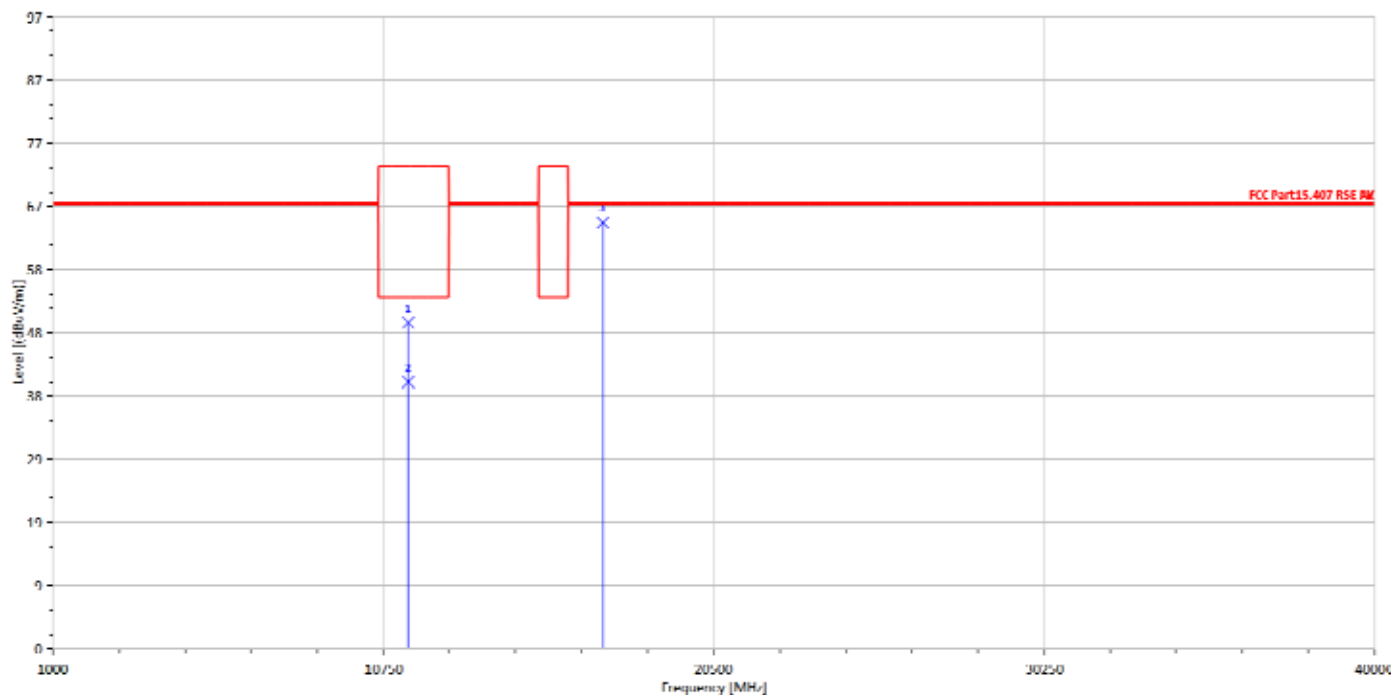
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Operation Mode : 802.11a Test Date : 2016/2/24
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| Freq. | Note | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------|---------|---------------|------------------------|--------|-----------|-----------|--------|
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 11490.00 | H | Peak | 31.68 | 18.39 | 50.07 | 74 | -23.93 |
| 11490.00 | H | Average | 22.50 | 18.39 | 40.89 | 54 | -13.11 |
| 17235.00 | H | Peak | 37.59 | 27.84 | 65.44 | 68.3 | -2.86 |

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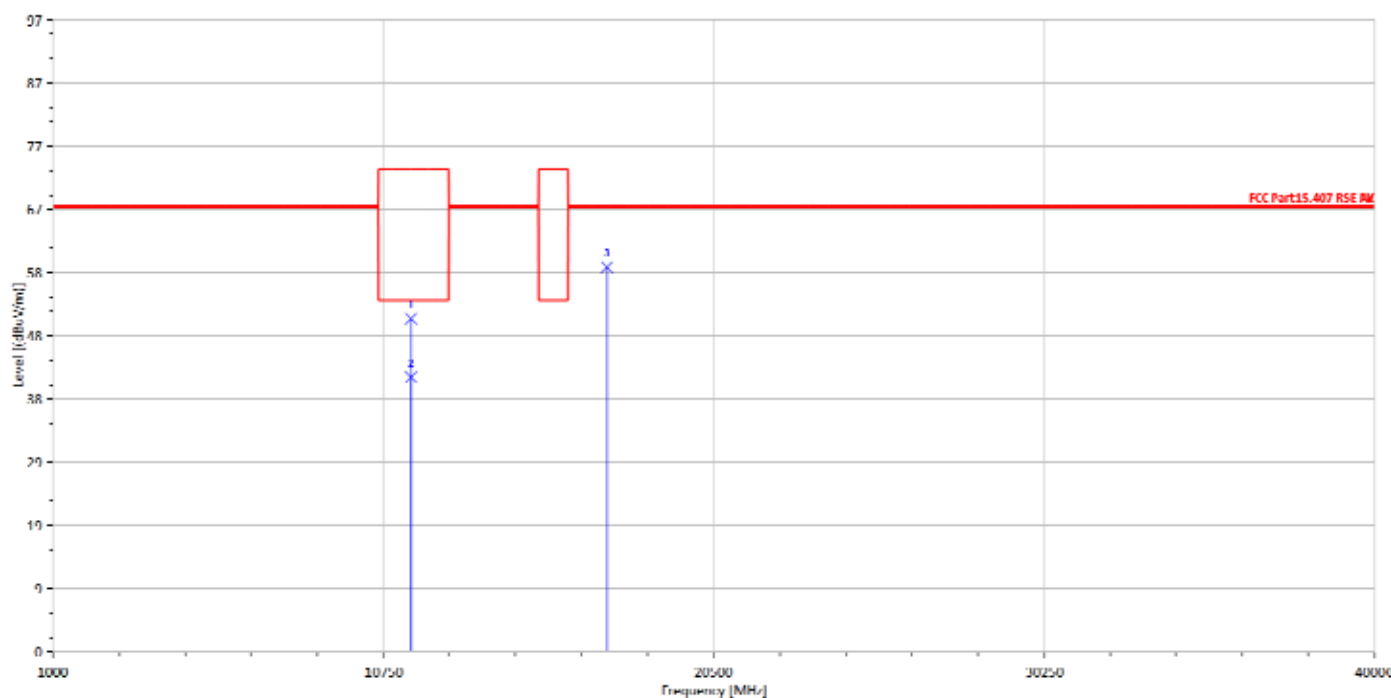
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 11570.00 | H | Peak | 31.77 | 19.38 | 51.15 | 74 | -22.85 |
| 11570.00 | H | Average | 22.68 | 19.38 | 42.06 | 54 | -11.94 |
| 17355.00 | H | Peak | 32.07 | 26.92 | 58.98 | 68.3 | -9.32 |

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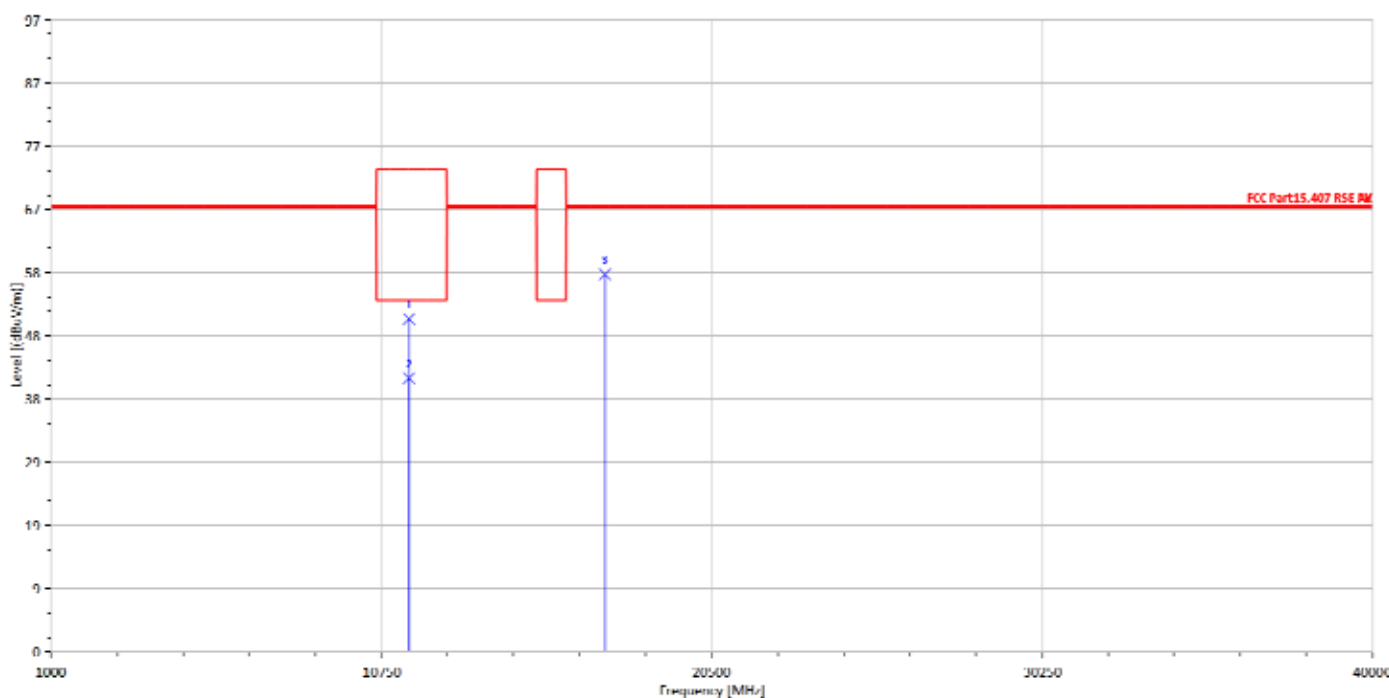
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 11570.00 | H | Peak | 31.73 | 19.38 | 51.12 | 74 | -22.88 |
| 11570.00 | H | Average | 22.55 | 19.38 | 41.93 | 54 | -12.07 |
| 17355.00 | H | Peak | 30.96 | 26.92 | 57.88 | 68.3 | -10.42 |

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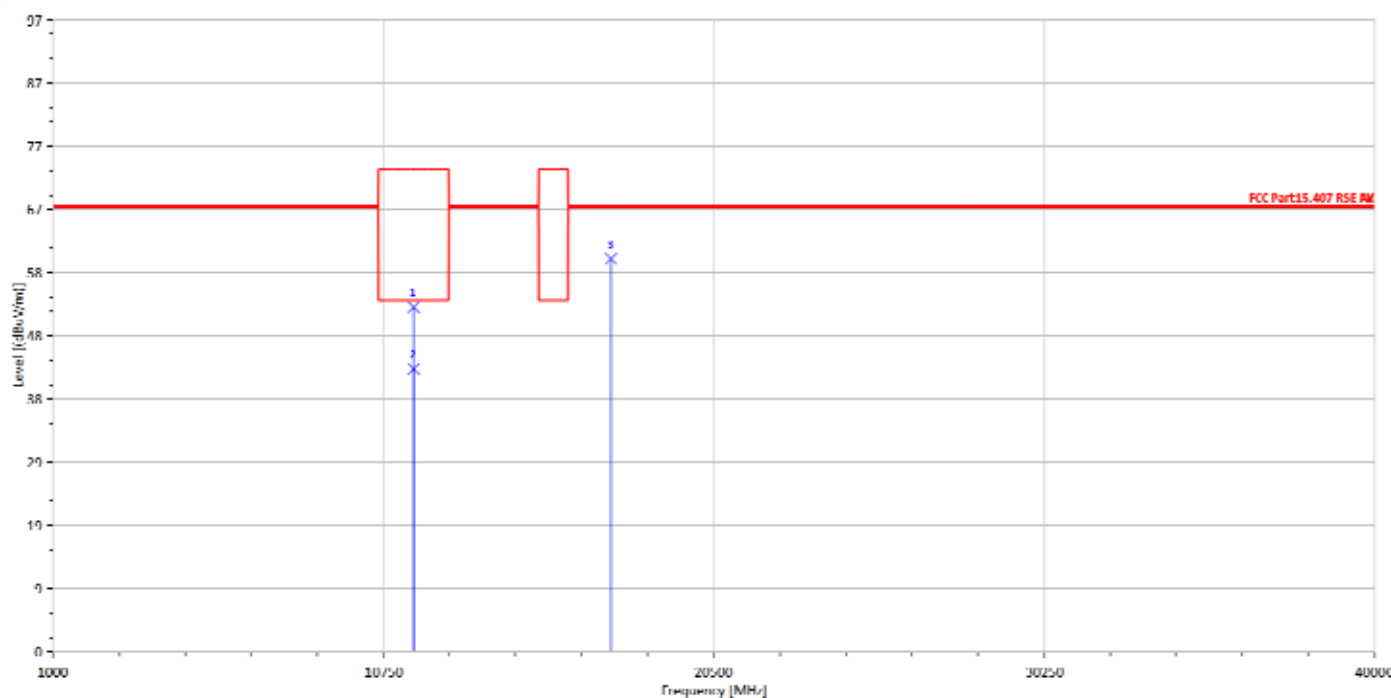
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 11650.00 | H | Peak | 32.71 | 20.23 | 52.95 | 74 | -21.05 |
| 11650.00 | H | Average | 23.12 | 20.23 | 43.35 | 54 | -10.65 |
| 17475.00 | H | Peak | 32.22 | 28.08 | 60.30 | 68.3 | -8.00 |

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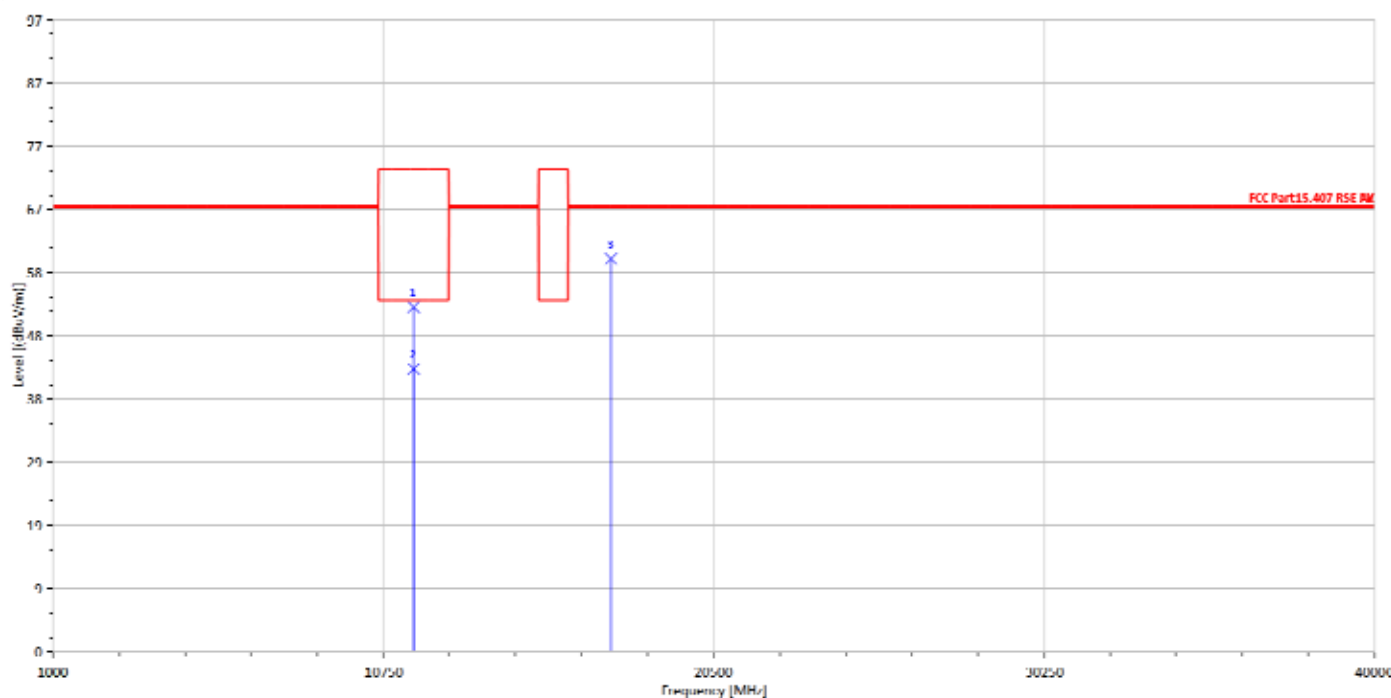
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11a | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 11650.00 | H | Peak | 32.14 | 20.23 | 52.37 | 74 | -21.63 |
| 11650.00 | H | Average | 22.29 | 20.23 | 42.52 | 54 | -11.48 |
| 17475.00 | H | Peak | 32.28 | 28.08 | 60.36 | 68.3 | -7.94 |

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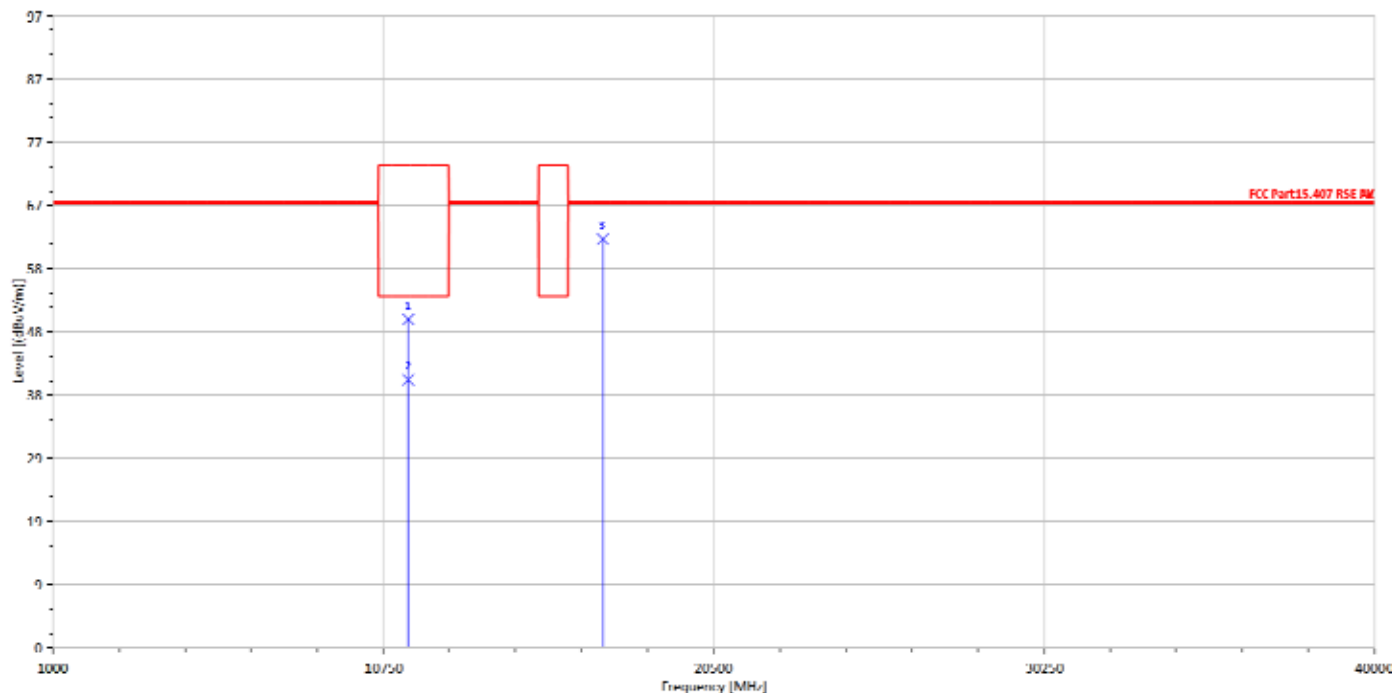
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Radiated Spurious Emission Measurement Result 802.11n HT20, 5725~5850 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 11490.00 | H | Peak | 32.04 | 18.39 | 50.43 | 74 | -23.57 |
| 11490.00 | H | Average | 22.66 | 18.39 | 41.05 | 54 | -12.95 |
| 17235.00 | H | Peak | 34.86 | 27.84 | 62.71 | 68.3 | -5.59 |

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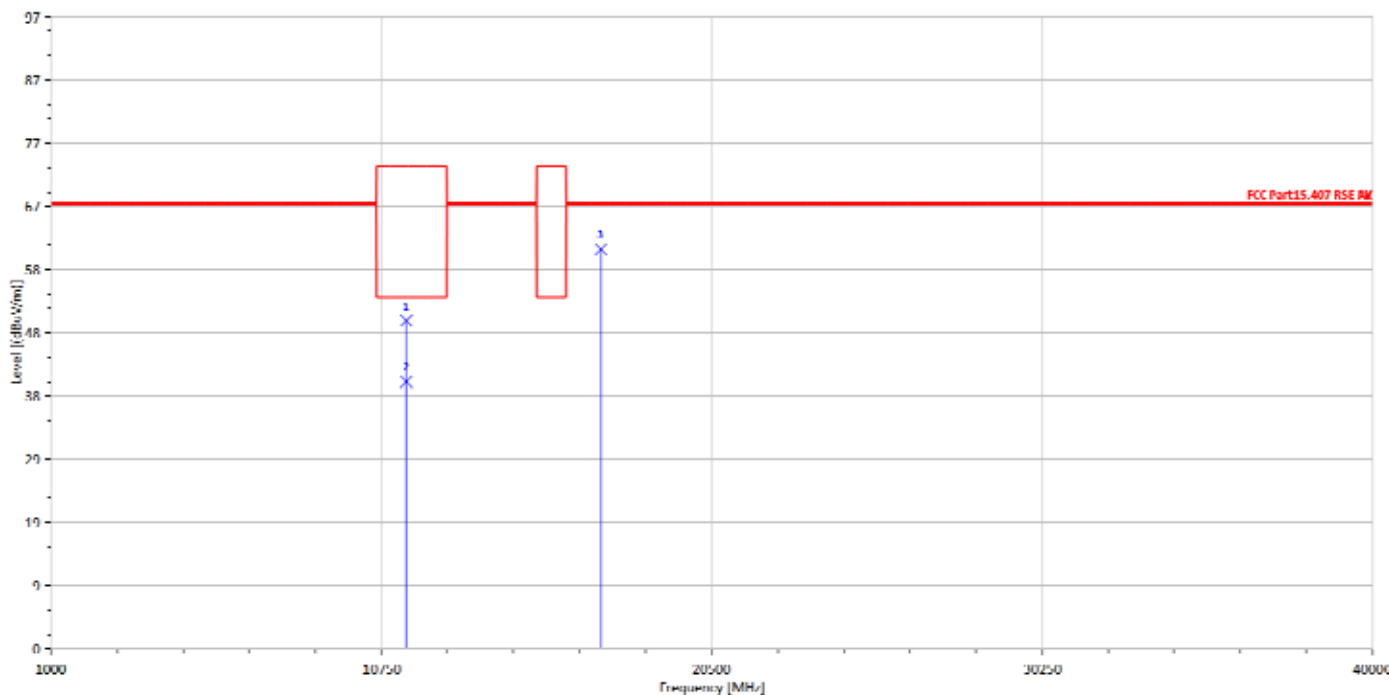
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Operation Mode : 802.11n20 Test Date : 2016/2/24
Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11490.00 | H | Peak | 31.99 | 18.39 | 50.37 | 74 | -23.63 |
| 11490.00 | H | Average | 22.55 | 18.39 | 40.94 | 54 | -13.06 |
| 17235.00 | H | Peak | 33.46 | 27.84 | 61.31 | 68.3 | -6.99 |

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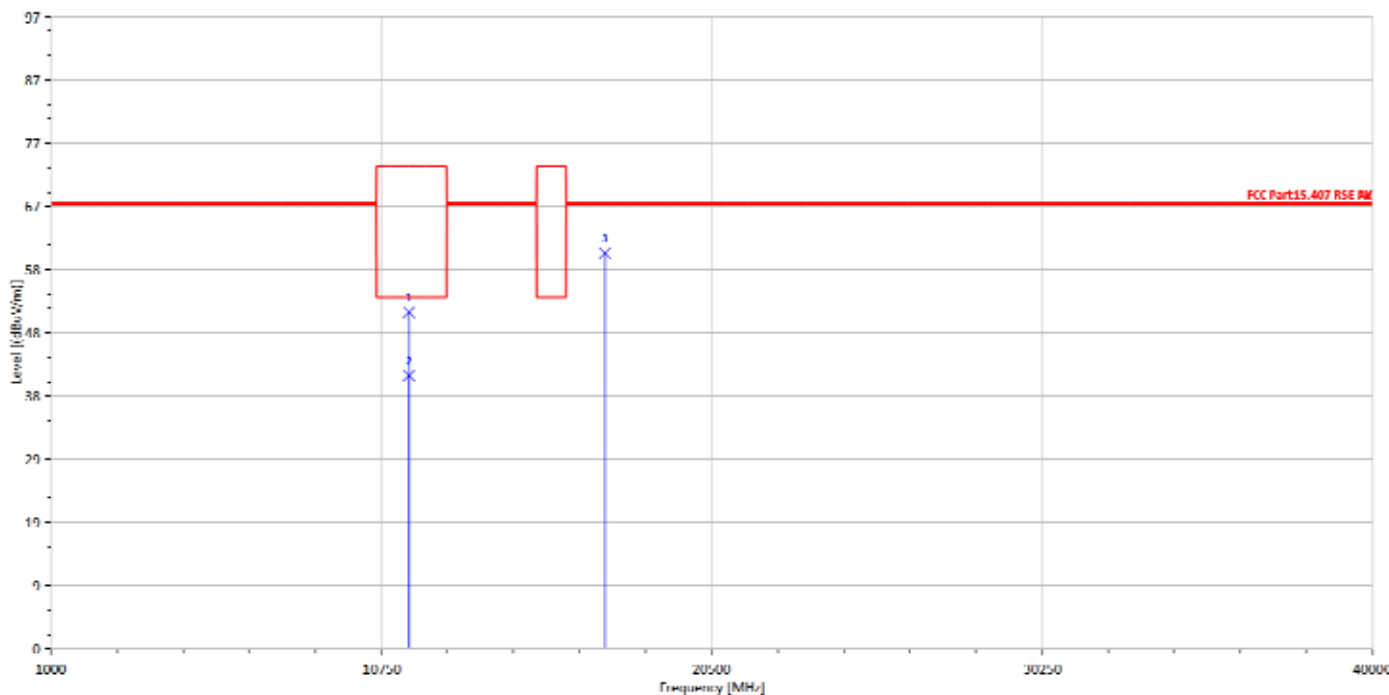
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11570.00 | H | Peak | 32.31 | 19.38 | 51.70 | 74 | -22.30 |
| 11570.00 | H | Average | 22.48 | 19.38 | 41.86 | 54 | -12.14 |
| 17355.00 | H | Peak | 33.79 | 26.92 | 60.70 | 68.3 | -7.60 |

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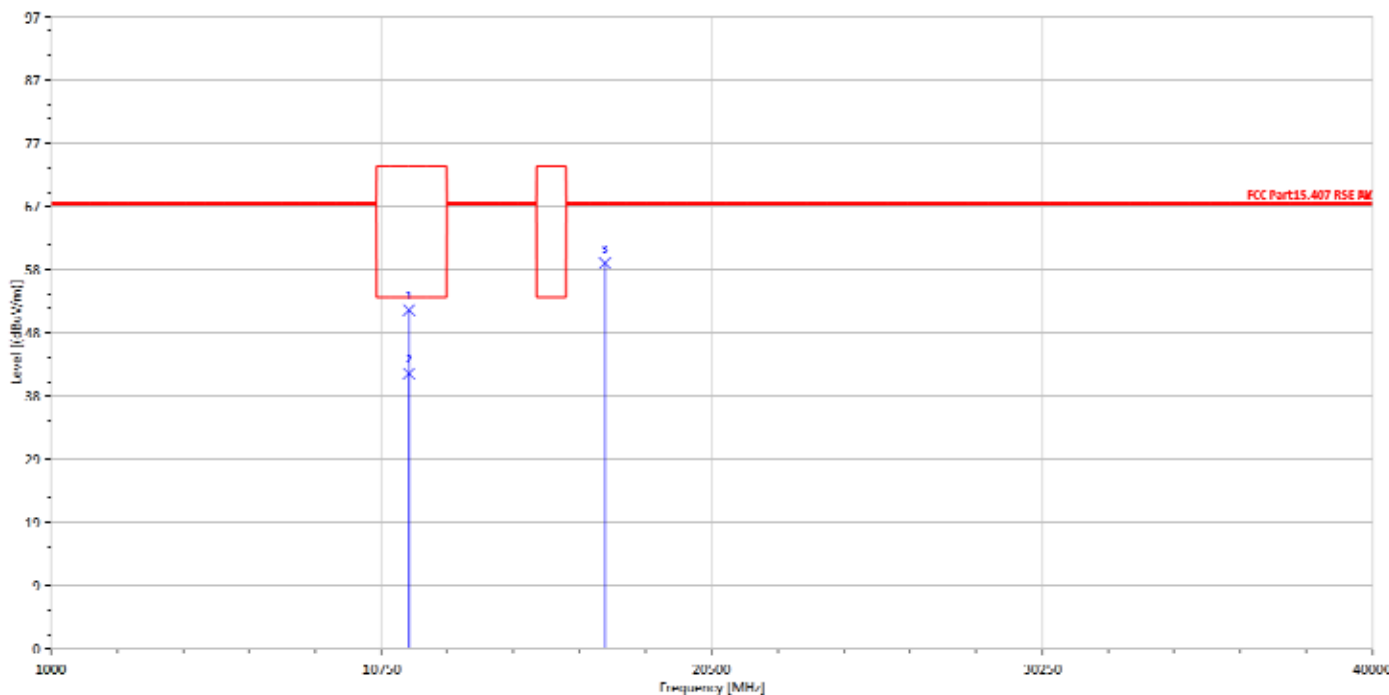
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| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5785 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Mid | Test Engineer : | Pony |
| 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 11570.00 | H | Peak | 32.64 | 19.38 | 52.02 | 74 | -21.98 |
| 11570.00 | H | Average | 22.78 | 19.38 | 42.16 | 54 | -11.84 |
| 17355.00 | H | Peak | 32.23 | 26.92 | 59.15 | 68.3 | -9.15 |

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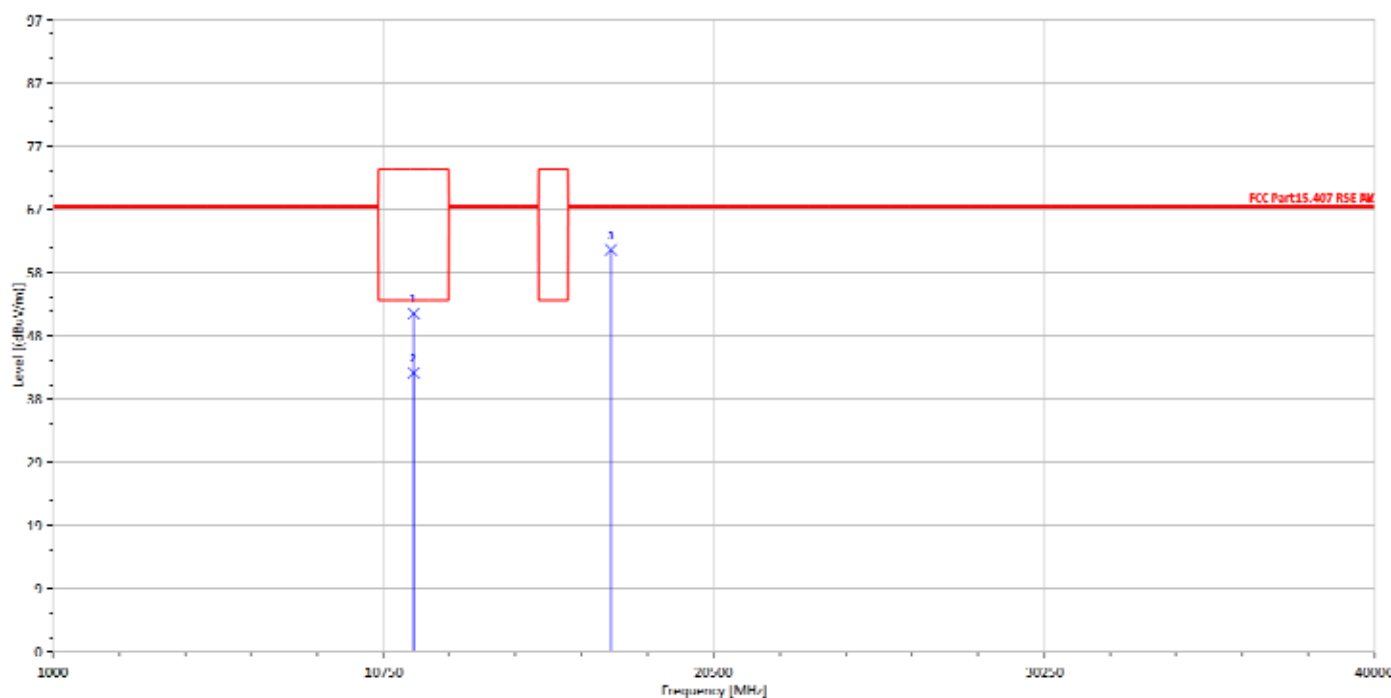
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Operation Mode : 802.11n20 Test Date : 2016/2/24
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH High Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11650.00 | H | Peak | 31.71 | 20.23 | 51.94 | 74 | -22.06 |
| 11650.00 | H | Average | 22.51 | 20.23 | 42.74 | 54 | -11.26 |
| 17475.00 | H | Peak | 33.62 | 28.08 | 61.69 | 68.3 | -6.61 |

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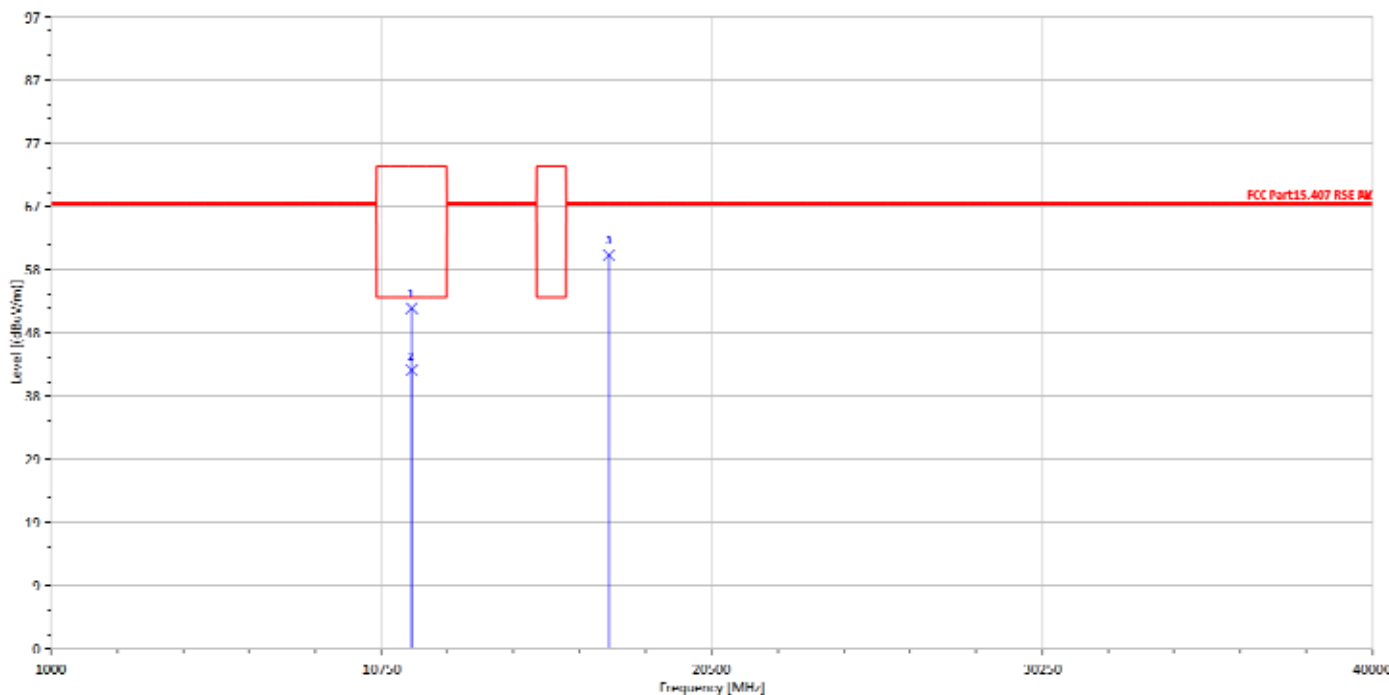
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5825 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 11650.00 | H | Peak | 32.07 | 20.23 | 52.31 | 74 | -21.69 |
| 11650.00 | H | Average | 22.45 | 20.23 | 42.68 | 54 | -11.32 |
| 17475.00 | H | Peak | 32.31 | 28.08 | 60.39 | 68.3 | -7.91 |

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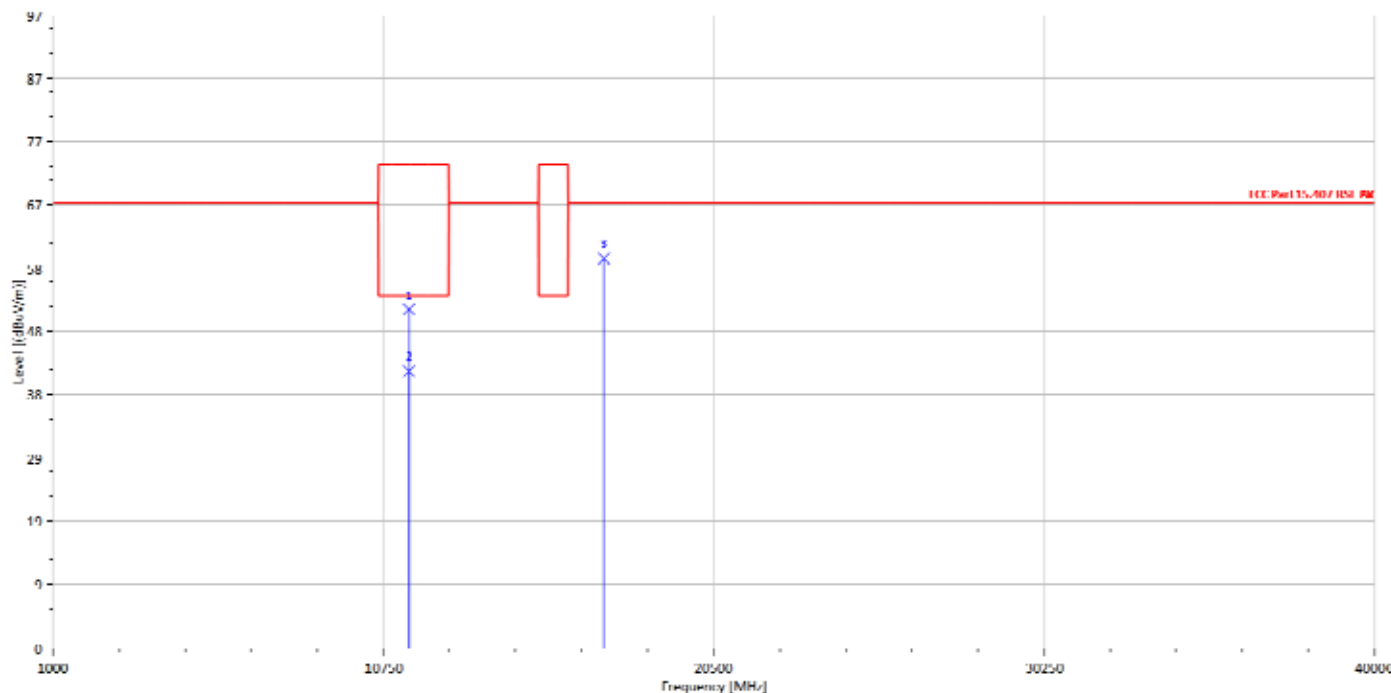
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Radiated Spurious Emission Measurement Result 802.11n HT40, 5725~5850 MHz

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5755 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH Low | Test Engineer : | Pony |
| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11510.00 | H | Peak | 31.99 | 19.90 | 51.89 | 74 | -22.11 |
| 11510.00 | H | Average | 22.55 | 19.90 | 42.45 | 54 | -11.55 |
| 17265.00 | H | Peak | 31.95 | 27.69 | 59.65 | 68.3 | -8.65 |

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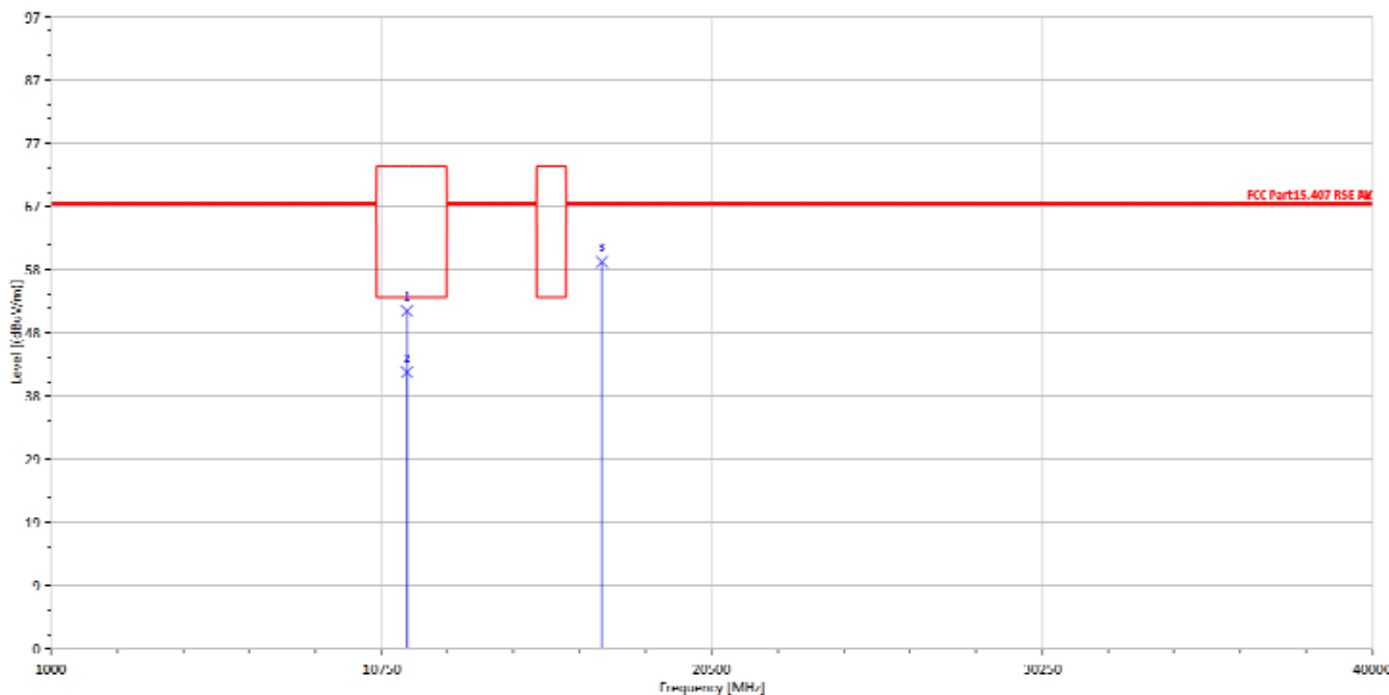
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Operation Mode : 802.11n40 Test Date : 2016/2/24
Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : Tx CH Low Test Engineer : Pony
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11510.00 | H | Peak | 31.96 | 19.90 | 51.86 | 74 | -22.14 |
| 11510.00 | H | Average | 22.47 | 19.90 | 42.37 | 54 | -11.63 |
| 17265.00 | H | Peak | 31.66 | 27.69 | 59.35 | 68.3 | -8.95 |

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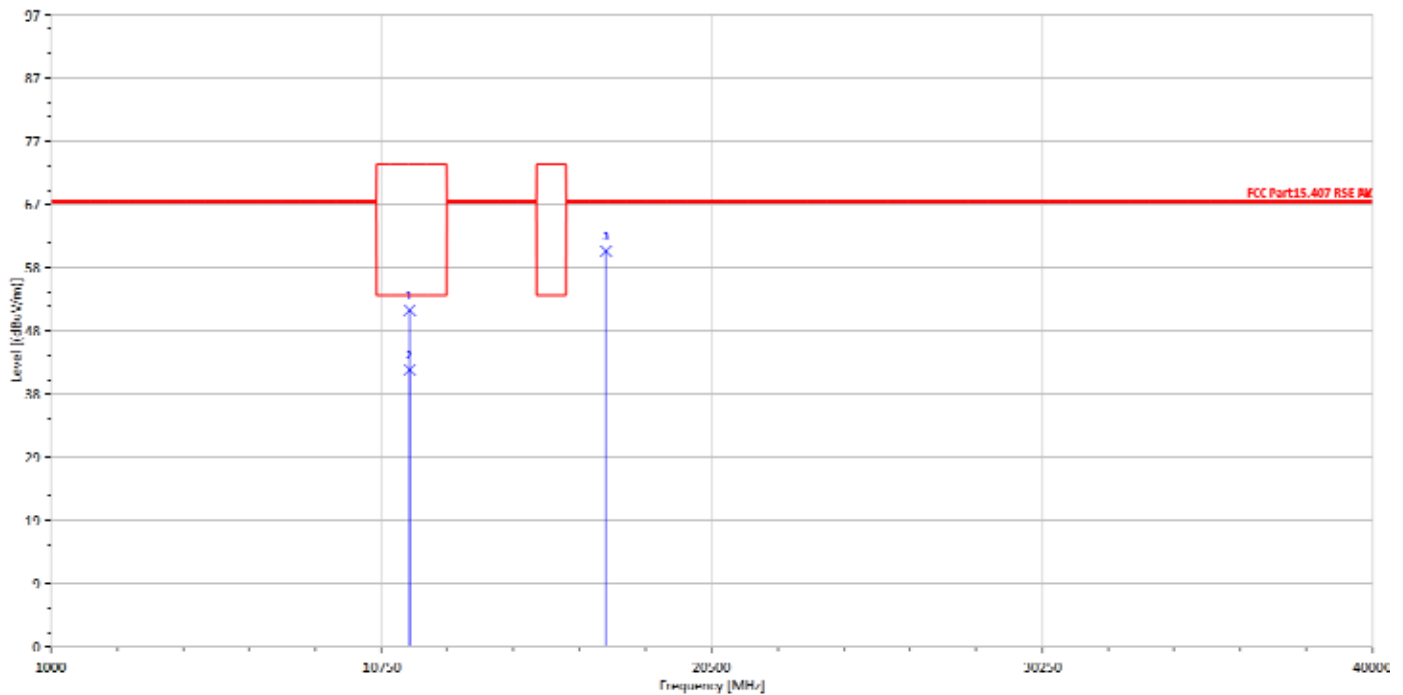
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|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5795 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 11590.00 | H | Peak | 31.83 | 19.85 | 51.68 | 74 | -22.32 |
| 11590.00 | H | Average | 22.58 | 19.85 | 42.43 | 54 | -11.57 |
| 17385.00 | H | Peak | 33.47 | 27.25 | 60.71 | 68.3 | -7.59 |

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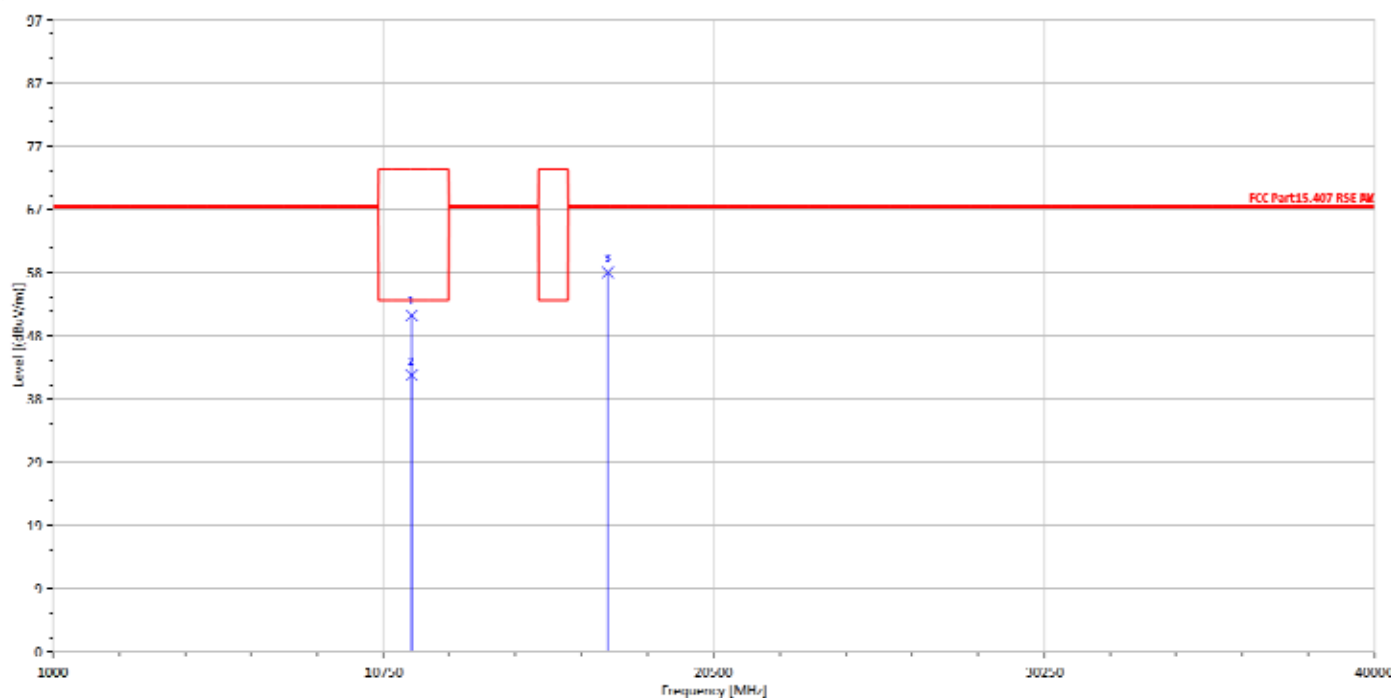
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| | | | |
|-------------------------|------------|----------------------------|----------------|
| Operation Mode : | 802.11n40 | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5795 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | Tx CH High | Test Engineer : | Pony |
| 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 |
|--------------|-----------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 11590.00 | H | Peak | 31.80 | 19.85 | 51.65 | 74 | -22.35 |
| 11590.00 | H | Average | 22.53 | 19.85 | 42.38 | 54 | -11.62 |
| 17385.00 | H | Peak | 30.93 | 27.25 | 58.17 | 68.3 | -10.13 |

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Band edge falling to restricted band

802.11a mode

Operation Mode : 802.11a Test Date : 2016/2/24
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5724.70 | S | Peak | 55.43 | 12.01 | 67.44 | 78.2 | -10.76 |
| 5725.00 | E | Peak | 54.52 | 12.01 | 66.53 | 78.2 | -11.67 |

Operation Mode : 802.11a Test Date : 2016/2/24
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5713.80 | S | Peak | 54.40 | 11.97 | 66.37 | 68.3 | -1.93 |
| 5724.50 | S | Peak | 61.57 | 12.01 | 73.58 | 78.2 | -4.62 |
| 5725.00 | E | Peak | 61.11 | 12.01 | 73.12 | 78.2 | -5.08 |

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Operation Mode : 802.11a Test Date : 2016/2/24
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5850.00 | E | Peak | 48.69 | 12.15 | 60.84 | 78.2 | -17.36 |
| 5852.50 | S | Peak | 50.73 | 12.19 | 62.92 | 78.2 | -15.28 |

Operation Mode : 802.11a Test Date : 2016/2/24
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5850.00 | E | Peak | 55.56 | 12.15 | 67.71 | 78.2 | -10.49 |
| 5851.50 | S | Peak | 56.91 | 12.18 | 69.08 | 78.2 | -9.12 |

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802.11n20 HT mode

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| 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 |
| 5712.70 | S | Peak | 50.12 | 11.97 | 62.09 | 68.3 | -6.21 |
| 5724.80 | S | Peak | 56.03 | 12.01 | 68.04 | 78.2 | -10.16 |
| 5725.00 | E | Peak | 52.30 | 12.01 | 64.31 | 78.2 | -13.89 |

| | | | |
|-------------------------|-----------|----------------------------|----------------|
| Operation Mode : | 802.11n20 | Test Date : | 2016/2/24 |
| Fundamental Frequency : | 5745 MHz | Temp. / Humi. : | 22.7deg_C/57RH |
| Operation Band : | BE CH Low | Test Engineer : | Pony |
| 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 |
| 5713.60 | S | Peak | 55.80 | 11.97 | 67.77 | 68.3 | -0.53 |
| 5725.00 | E | Peak | 62.95 | 12.01 | 74.96 | 78.2 | -3.24 |

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Operation Mode : 802.11n20 Test Date : 2016/2/24
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5850.00 | E | Peak | 48.41 | 12.15 | 60.56 | 78.2 | -17.64 |
| 5850.30 | S | Peak | 49.84 | 12.15 | 61.99 | 78.2 | -16.21 |

Operation Mode : 802.11n20 Test Date : 2016/2/24
Fundamental Frequency : 5825 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH High Test Engineer : Pony
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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5850.00 | E | Peak | 56.65 | 12.15 | 68.80 | 78.2 | -9.40 |
| 5865.90 | S | Peak | 53.87 | 12.34 | 66.21 | 68.3 | -2.09 |

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802.11n40 HT mode

Operation Mode : 802.11n40 Test Date : 2016/2/24
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5724.60 | S | Peak | 53.46 | 12.01 | 65.47 | 78.2 | -12.73 |
| 5725.00 | E | Peak | 51.03 | 12.01 | 63.04 | 78.2 | -15.16 |

Operation Mode : 802.11n40 Test Date : 2016/2/24
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH Low Test Engineer : Pony
 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5714.60 | S | Peak | 54.61 | 11.97 | 66.58 | 68.3 | -1.72 |
| 5724.20 | S | Peak | 57.68 | 12.01 | 69.69 | 78.2 | -8.51 |
| 5725.00 | E | Peak | 54.85 | 12.01 | 66.86 | 78.2 | -11.34 |

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Operation Mode : 802.11n40 Test Date : 2016/2/24
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5850.00 | E | Peak | 46.34 | 12.15 | 58.49 | 78.2 | -19.71 |

Operation Mode : 802.11n40 Test Date : 2016/2/24
 Fundamental Frequency : 5795 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : BE CH High Test Engineer : Pony
 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 | dBμV | dB | dBμV/m | dBμV/m | dB |
| 5850.00 | E | Peak | 51.36 | 12.15 | 63.51 | 78.2 | -14.69 |
| 5851.70 | S | Peak | 54.16 | 12.18 | 66.34 | 78.2 | -11.86 |

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8. ANTENNA REQUIREMENT

8.1 Standard Applicable

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.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

8.2 Antenna Connected Construction

The antenna is designed with permanent 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.

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