

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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

OF

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

Product Name: Frey

Brand Name: Bitatek

Model No.: Frey M1-0000, Frey M1-0010

Model Difference: Frey M1-0000 with GPS
Frey M1-0010 without GPS

FCC ID: SPYIM0002

Report Number: ER/2018/10092

FCC Rule Part: §15.247, Cat: DTS

Issue Date: Feb. 02, 2018

Date of Test: Jan. 19, 2018~Jan. 22, 2018

**Date of EUT Re-
ceived:** Jan. 17, 2018

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.

Prepared By:

Karen Huang

Karen Huang / Clerk

Approved By:

Jim Chang

Jim Chang / Asst. Manager



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Revision History

| Report Number | Revision | Description | Issue Date |
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| ER/2018/10092 | Rev.00 | Initial creation of document | Feb. 02, 2018 |
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1 GENERAL INFORMATION

1.1 Product description

General:

| | | |
|------------------------------|--|--|
| Product Name of Host: | Mobile computers | |
| Brand Name: | Opticon | |
| Model No. of Host: | H-29 | |
| Model Difference: | N/A | |
| Hardware Version: | ES2 | |
| Software Version: | 6.0.1.0.1.0.1 | |
| Model No. of BT/WLAN Module: | Frey M1-0000, Frey M1-0010 | |
| 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: | Frey INSTALLED IN Mobile computers | |
| USB Cable: | Model No.: A36-A026-V119, Supplier: Conntek information Co.,LTD. | |
| Power Supply: | 3.7Vdc from Rechargeable Li-polymer Battery or 5V from AC/DC Adapter | |
| | Battery: | 1. Model No.: BTBAT3, Supplier: Leung's Communication & Electric Products (Guangzhou) LTD. 2. Model No.: BTBAT4, Supplier: Leung's Communication & Electric Products (Guangzhou) LTD. |
| | Adapter: | Model No.: S018BDU0900200, Supplier: TENPAO INDUSTRIAL CO.,LTD. |

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WLAN 2.4GHz:

| Wi-Fi | Frequency Range | Channels | Modulation Technology |
|----------------------|-------------------|---|-----------------------|
| 11b/g | 2412-2462 | 11 | DSSS OFDM |
| 11n (2.4GHz) | HT20 2412-2462 | 11 | OFDM |
| 11n (2.4GHz) | HT40 2422-2452 | 11 | OFDM |
| Antenna Designation: | | PIFA Antenna, Gain: -0.15 dBi | |
| 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 HT20: 6.5 – 72.5Mbps 802.11 HT40: 13.5 – 150Mbps | |

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1.2 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance

FCC KDB 662911 D01 Multiple Transmitter Output

ANSI C63.10:2013

Note:

All test items have been performed and record as per the above standards.

1.3 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 (TAF code 0513)

FCC Registration Number and Designation number are: 509634 / TW0001

1.4 Special Accessories

There is no special accessory 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 plan. 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. 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 plan. 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 Configuration of Tested System



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 |
| 2. | Notebook | Lenovo | L430 | R9-X11BG | Shielded | Unshielded |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|-----------------------|--|-----------|
| §15.247(d) | Radiated Band Edge and Spurious Emission | Compliant |
| §15.203 §15.247(b) | Antenna Requirement | Compliant |

4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b, 802.11g and 802.11n 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 | | |

7 channels are provided for 802.11n HT40,

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 3 | 2422 MHz | 7 | 2442 MHz |
| 4 | 2427 MHz | 8 | 2447 MHz |
| 5 | 2432 MHz | 9 | 2452 MHz |
| 6 | 2437 MHz | | |

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RADIATED EMISSION TEST:

| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | |
|---|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11g | 1 to 11 | 6 | DSSS | 1 | Main |
| RADIATED BAND EDGE & RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | |
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11b | 1 to 11 | 6 | DSSS | 1 | Main |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | 6 | Main |
| 802.11n (HT20) | 1 to 11 | 1, 6, 11 | OFDM | MCS0 | Main |
| 802.11n (HT40) | 3 to 9 | 3, 6, 9 | OFDM | MCS0 | Main |

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/b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case H position was tested as resulted in pre-scanned measurement.

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|--|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| Peak Output Power | +/- 1.55dB (for Spectrum) +/- 1.42 dB (for Power Meter) |
| 6dB Bandwidth | +/- 123.36 Hz |
| 100 KHz Bandwidth Of Frequency Band Edges | +/- 1.55 dB |
| Peak Power Density | +/- 1.55 dB |
| 99% Power Bandwidth | +/- 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 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

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

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6.2 Measurement Equipment Used:

SGS 966 Chamber No.C

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due |
|------------------------|-----------------------|-------------|---------------|------------------|-----------------|
| Bi-log Antenna | SCHWAZBECK | VULB9168 | 378 | 2017/12/29 | 2018/12/28 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1441 | 2017/08/04 | 2018/08/03 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 2017/12/12 | 2018/12/11 |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 2017/09/26 | 2018/09/25 |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 2017/05/10 | 2018/05/09 |
| EMI Test Receiver | R&S | ESCI7 | 100760 | 2017/06/06 | 2018/06/05 |
| Pre-Amplifier | HP | 8449B | 3008A00578 | 2018/01/02 | 2019/01/01 |
| Pre-Amplifier | HP | 8447D | 2944A07676 | 2018/01/02 | 2019/01/01 |
| Pre-Amplifier | EMC Instruments Corp. | EMC0126530 | 980038 | 2018/01/02 | 2019/01/01 |
| Attenuator | Mini-Circuit | BW-S10W2+ | | 2018/01/02 | 2019/01/01 |
| Filter 2400-2483.5 MHz | EWT | EWT-14-0166 | M1 | 2018/01/02 | 2019/01/01 |
| Low Loss Cable | Huber Suhner | 966_RX | 9 | 2018/01/02 | 2019/01/01 |
| Notebook | Lenovo | L430 | R9-X11BG | N/A | N/A |

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

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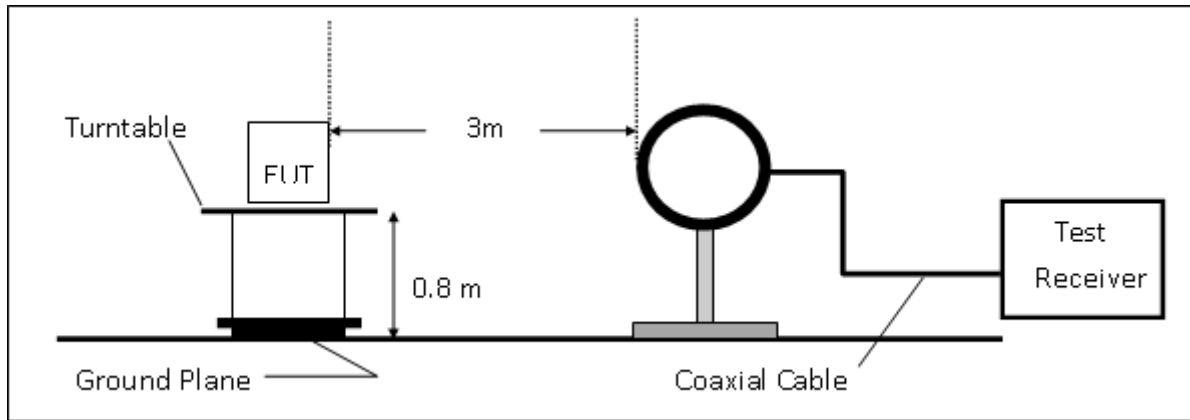
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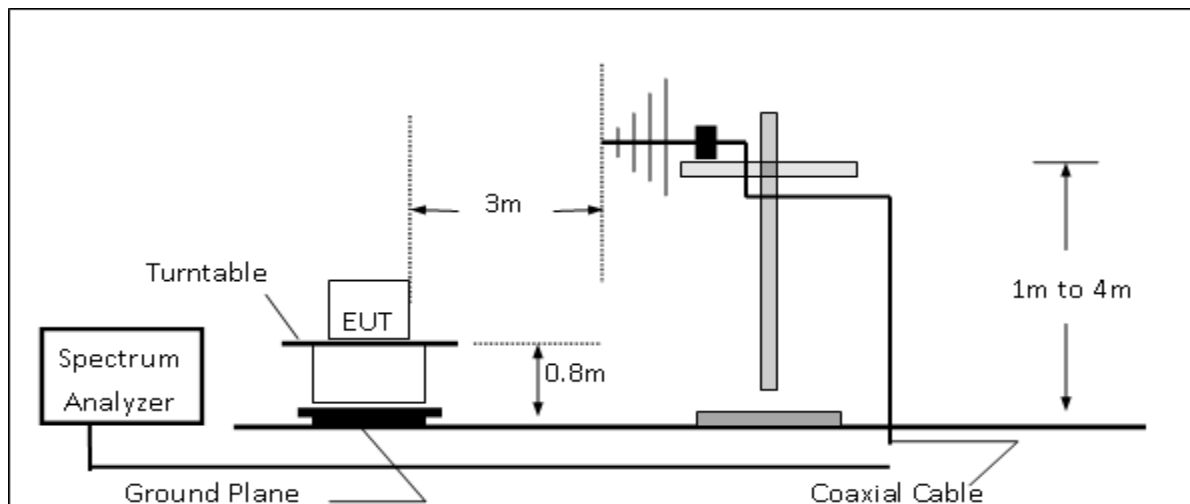
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6.3 Test SET-UP:

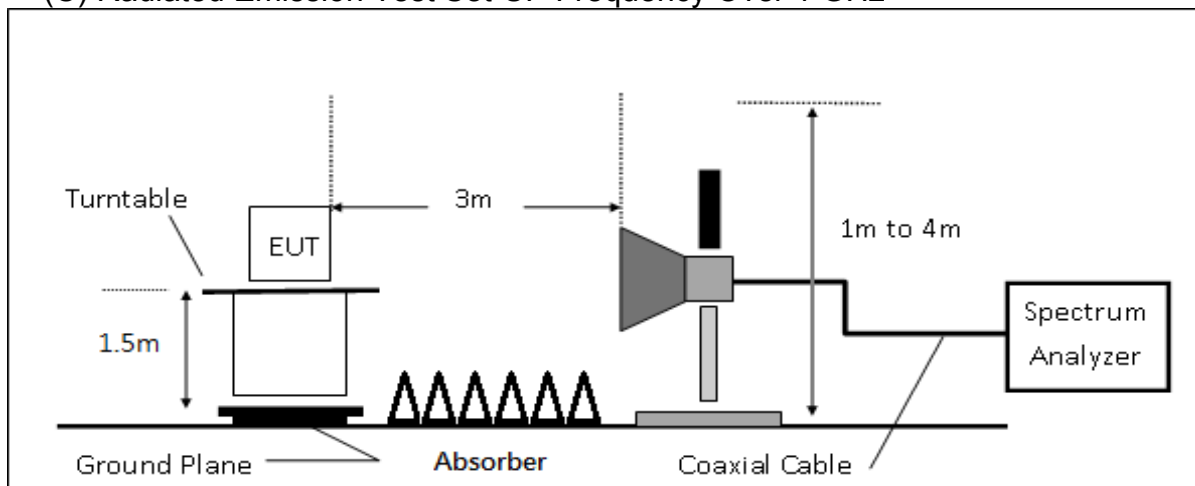
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(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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6.4 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 ≥ 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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6.5 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.

6.6 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.

6.7 Measurement Result:

Note: Refer to next page tabular data sheets.

Note: There is a comparison data of both open-field test site and semi-Anechoic, and test result came out very similar.

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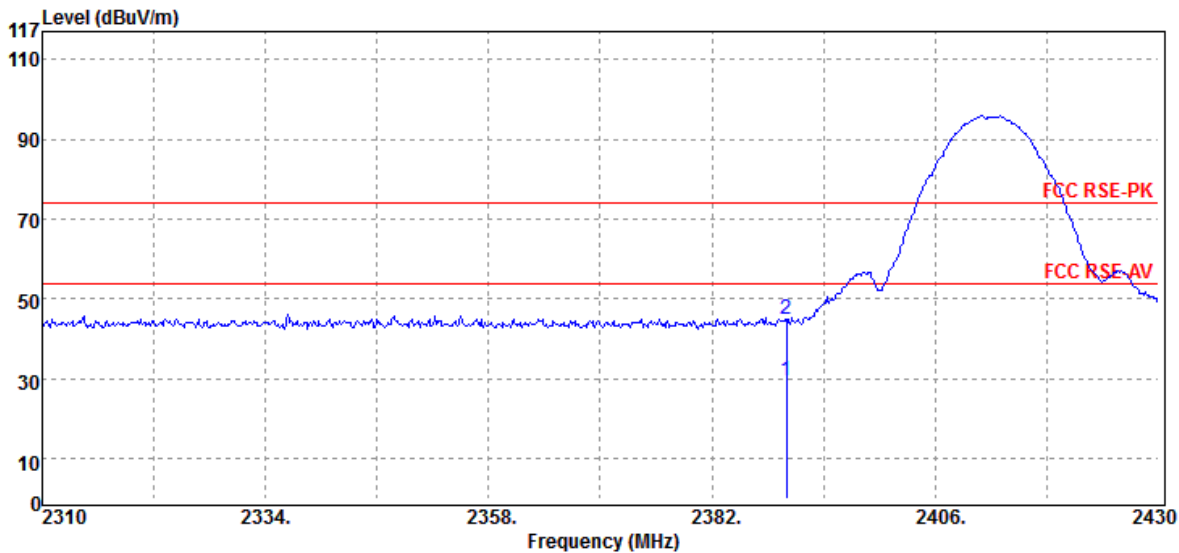
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Radiated Band Edge Measurement Result: 802.11 b mode

| | | | |
|-----------------------|------------------|--------------------------|-------------------|
| Operation Band | :802.11b | Test Date | :2018-01-18 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2390.00 | E | Average | 31.20 | -1.74 | 29.46 | 54.00 | -24.54 |
| 2390.00 | E | Peak | 46.53 | -1.74 | 44.79 | 74.00 | -29.21 |

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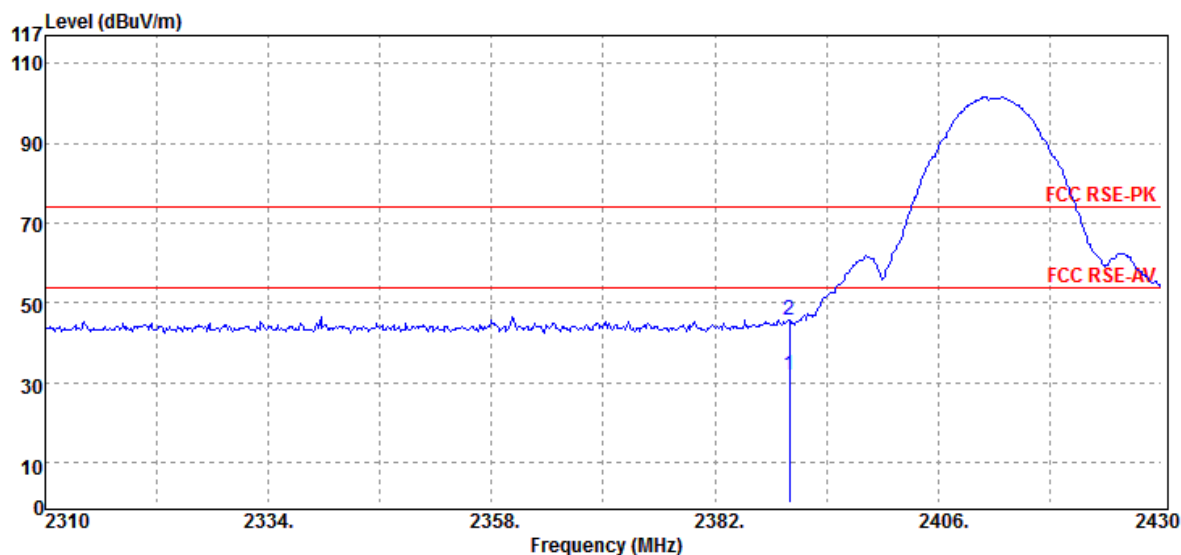
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Operation Band :802.11b
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2018-01-18
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2390.00 | E | Average | 33.55 | -1.74 | 31.81 | 54.00 | -22.19 |
| 2390.00 | E | Peak | 47.66 | -1.74 | 45.92 | 74.00 | -28.08 |

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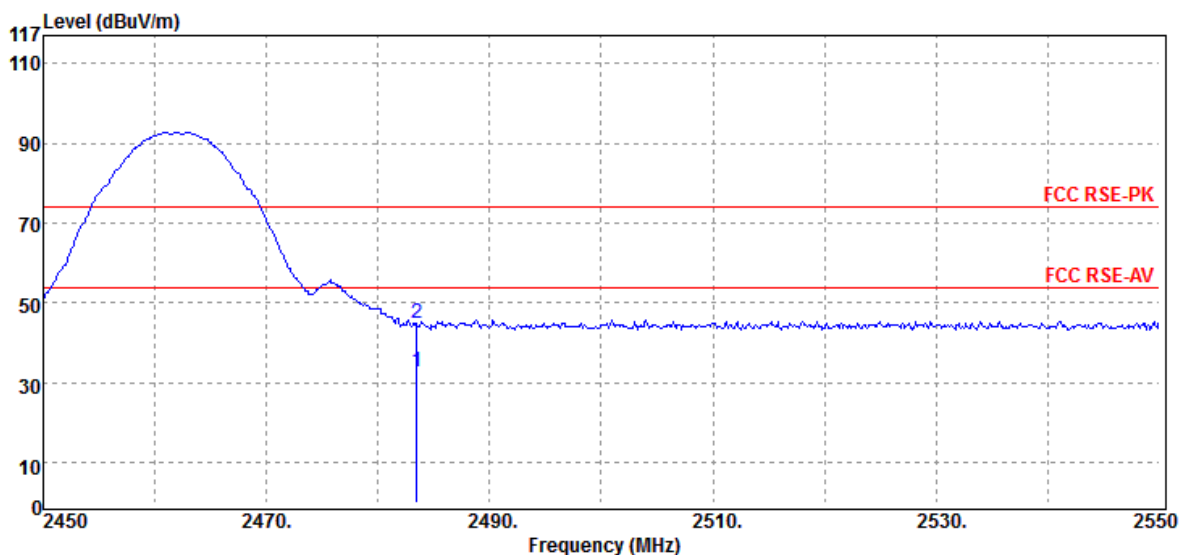
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Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2018-01-18
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 34.42 | -1.62 | 32.80 | 54.00 | -21.20 |
| 2483.50 | E | Peak | 46.48 | -1.62 | 44.86 | 74.00 | -29.14 |

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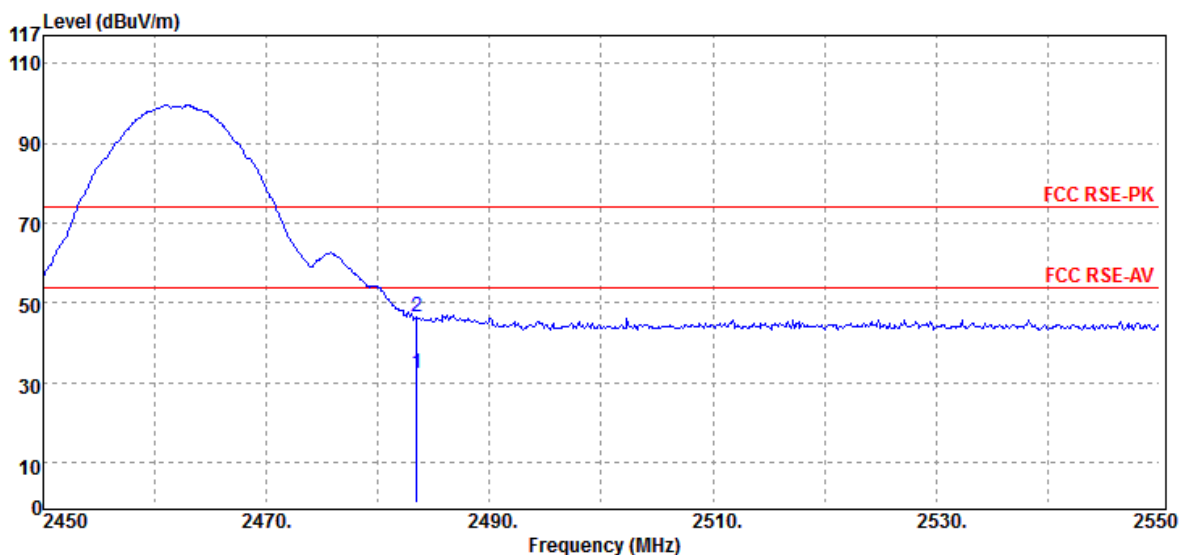
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Operation Band :802.11b
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2018-01-18
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 34.12 | -1.62 | 32.50 | 54.00 | -21.50 |
| 2483.50 | E | Peak | 48.01 | -1.62 | 46.39 | 74.00 | -27.61 |

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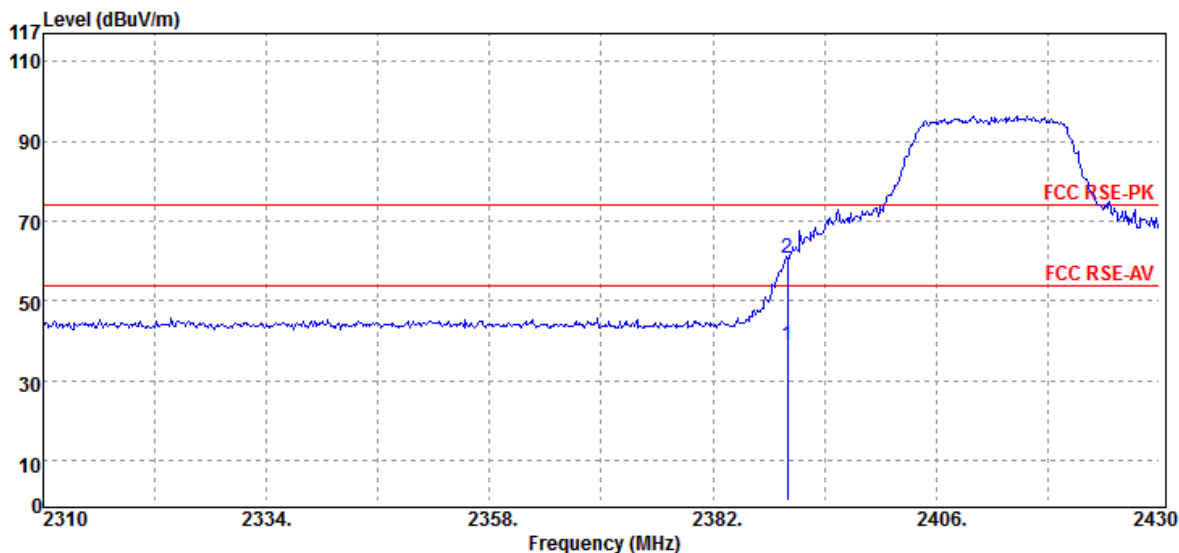
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Radiated Band Edge Measurement Result: 802.11 g mode

| | | | |
|-----------------------|------------------|--------------------------|-------------------|
| Operation Band | :802.11g | Test Date | :2018-01-18 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 2390.00 | E | Average | 40.45 | -1.74 | 38.71 | 54.00 | -15.29 |
| 2390.00 | E | Peak | 62.35 | -1.74 | 60.61 | 74.00 | -13.39 |

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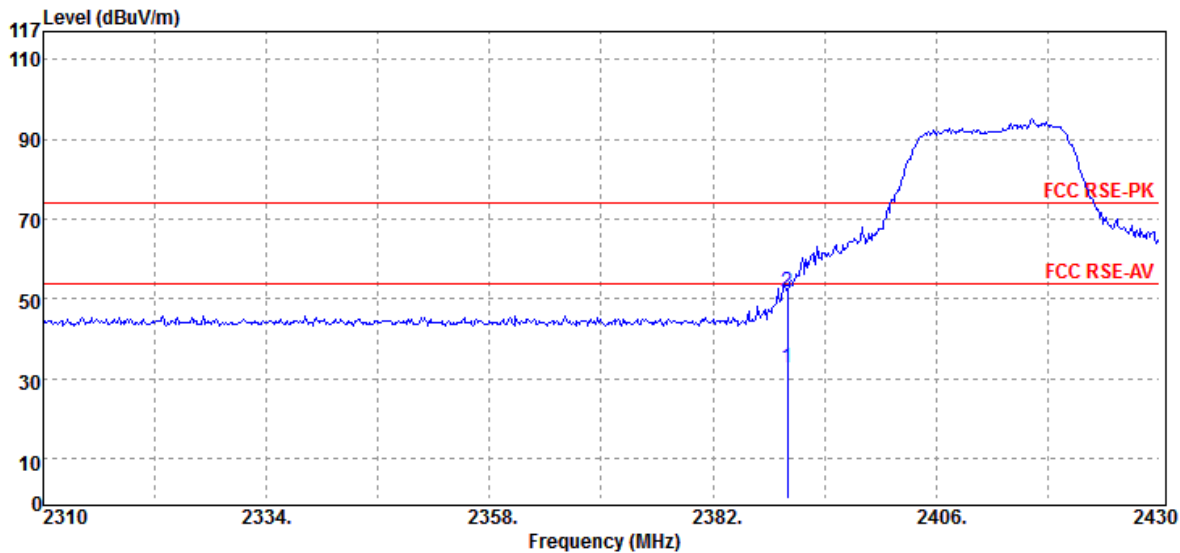
f (886-2) 2298-0488

www.tw.sgs.com

Member of SGS Group

Operation Band :802.11g
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2018-01-18
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2390.00 | E | Average | 34.60 | -1.74 | 32.96 | 54.00 | -21.14 |
| 2390.00 | E | Peak | 53.50 | -1.74 | 51.76 | 74.00 | -22.24 |

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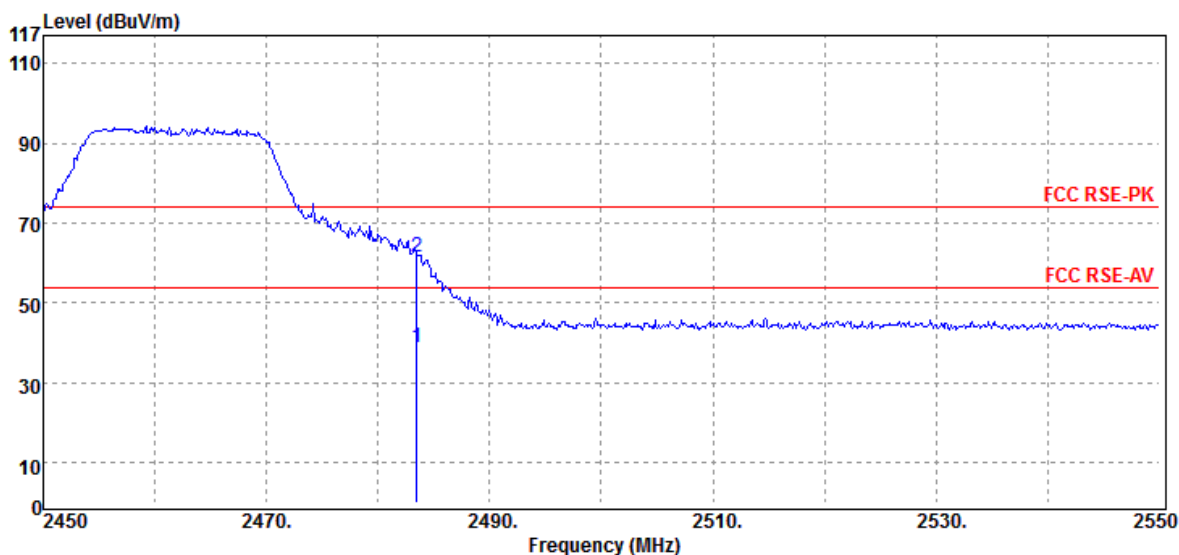
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www.tw.sgs.com

Member of SGS Group

Operation Band :802.11g
 Fundamental Frequency :2462 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-01-18
 Temp./Humi. :22 deg_C / 61 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| Mode | | | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 40.31 | -1.62 | 38.69 | 54.00 | -15.31 |
| 2483.50 | E | Peak | 63.18 | -1.62 | 61.56 | 74.00 | -12.44 |

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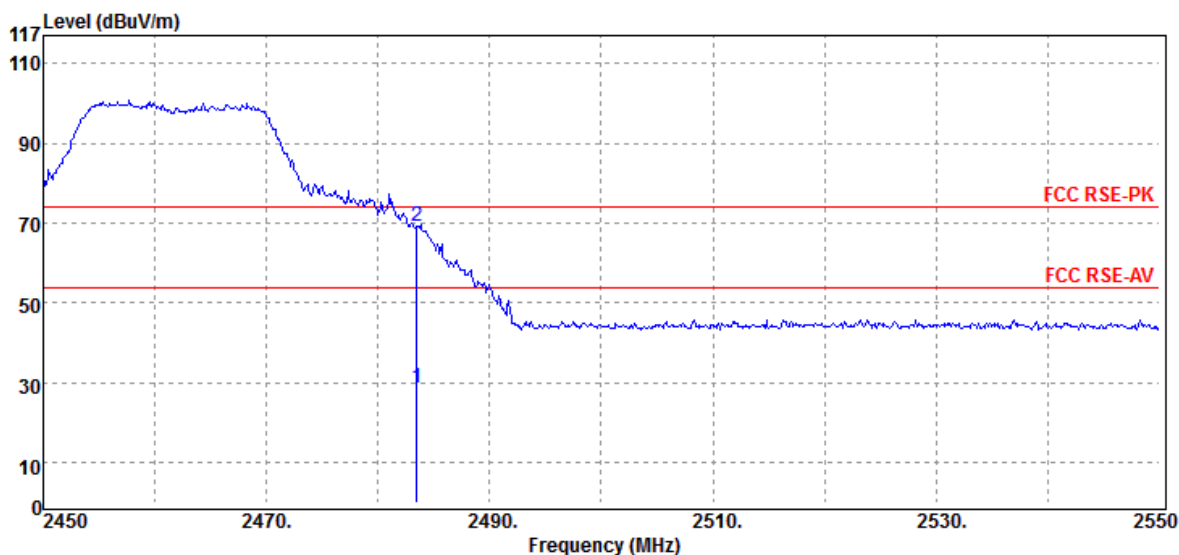
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Member of SGS Group

Operation Band :802.11g
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2018-01-18
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 30.22 | -1.62 | 28.60 | 54.00 | -25.40 |
| 2483.50 | E | Peak | 70.83 | -1.62 | 69.21 | 74.00 | -4.79 |

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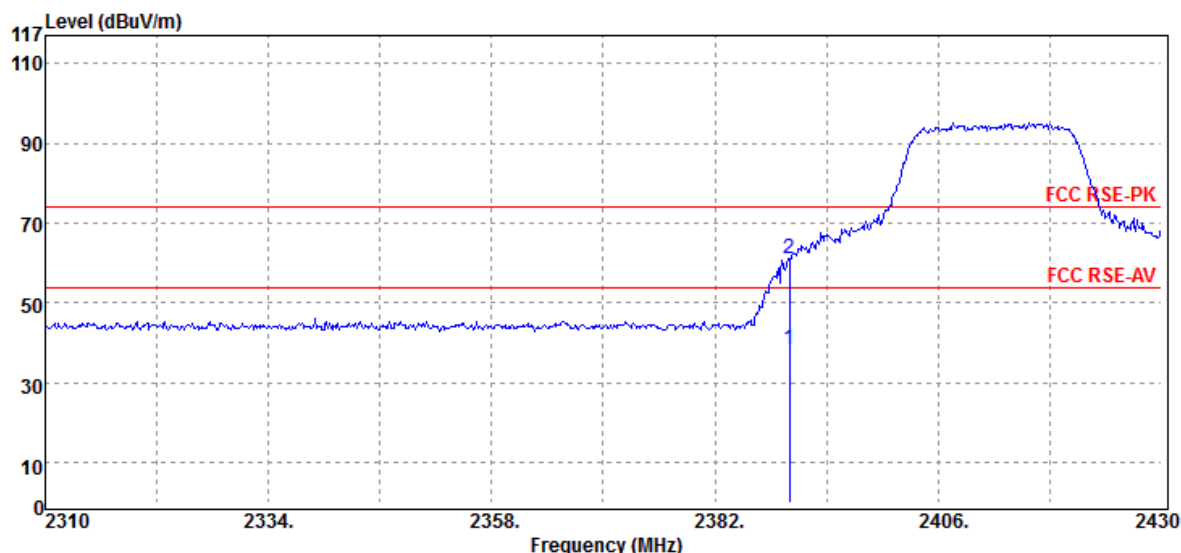
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Radiated Band Edge Measurement Result: 802.11n_HT20 mode

| | | | |
|-----------------------|------------------|--------------------------|-------------------|
| Operation Band | :802.11n20 | Test Date | :2018-01-18 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2390.00 | E | Average | 40.11 | -1.74 | 38.37 | 54.00 | -15.63 |
| 2390.00 | E | Peak | 62.89 | -1.74 | 61.15 | 74.00 | -12.85 |

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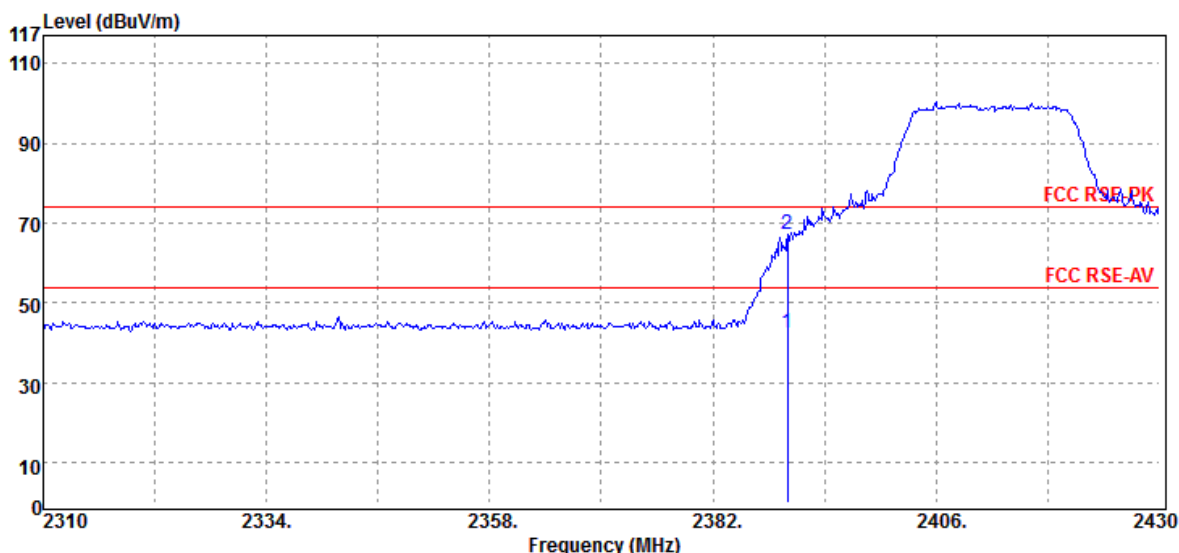
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Operation Band :802.11n20
Fundamental Frequency :2412 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2018-01-18
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2390.00 | E | Average | 44.20 | -1.74 | 42.46 | 54.00 | -11.54 |
| 2390.00 | E | Peak | 68.81 | -1.74 | 67.07 | 74.00 | -6.93 |

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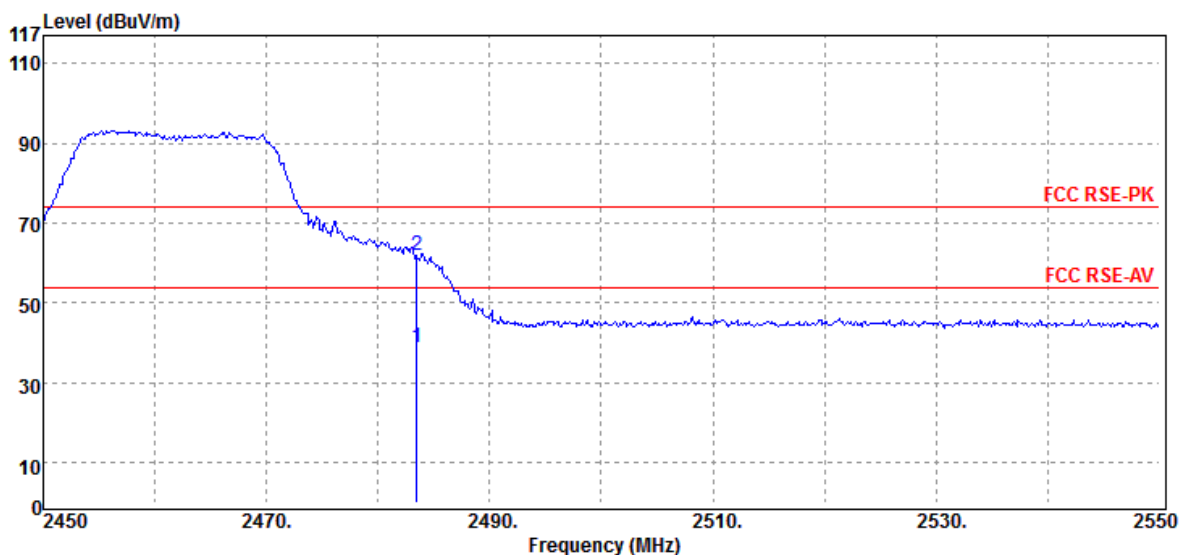
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Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2018-01-18
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 40.63 | -1.62 | 39.01 | 54.00 | -14.99 |
| 2483.50 | E | Peak | 63.39 | -1.62 | 61.77 | 74.00 | -12.23 |

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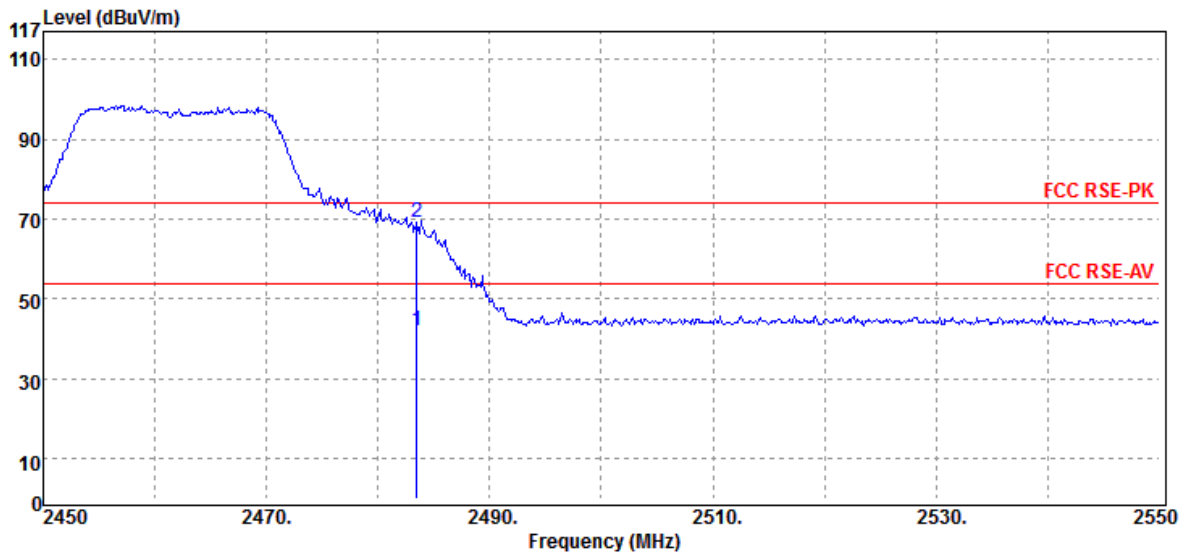
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Operation Band :802.11n20
Fundamental Frequency :2462 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2018-01-18
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 43.68 | -1.62 | 42.06 | 54.00 | -11.94 |
| 2483.50 | E | Peak | 70.80 | -1.62 | 69.18 | 74.00 | -4.82 |

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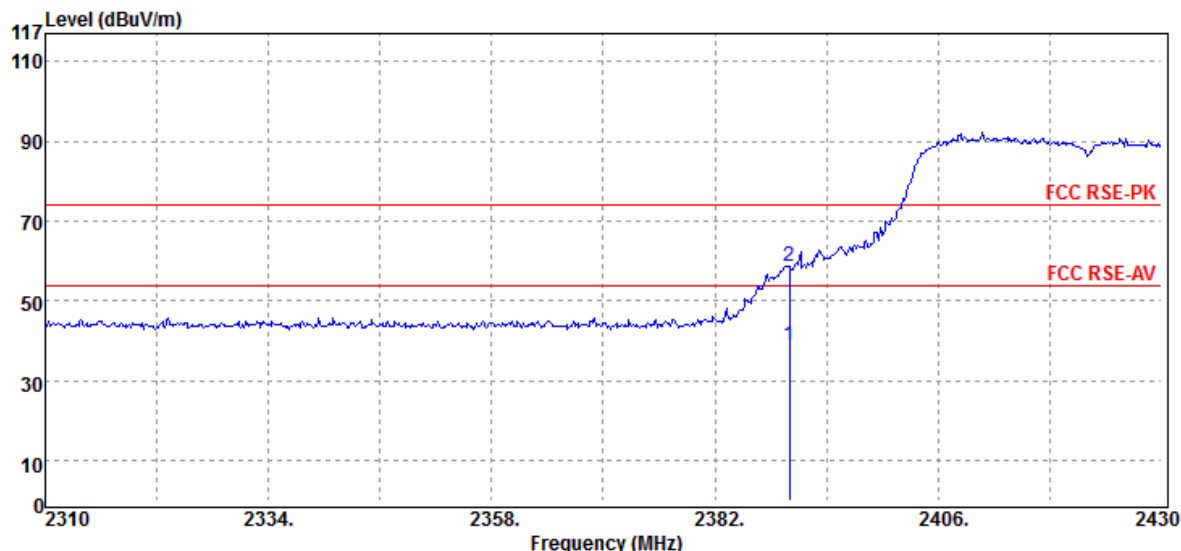
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Radiated Band Edge Measurement Result: 802.11 n_HT40 mode

| | | | |
|-----------------------|------------------|--------------------------|-------------------|
| Operation Band | :802.11n40 | Test Date | :2018-01-19 |
| Fundamental Frequency | :2422 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Bandedge CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 2390.00 | E | Average | 40.66 | -1.74 | 38.92 | 54.00 | -15.08 |
| 2390.00 | E | Peak | 60.41 | -1.74 | 58.67 | 74.00 | -15.33 |

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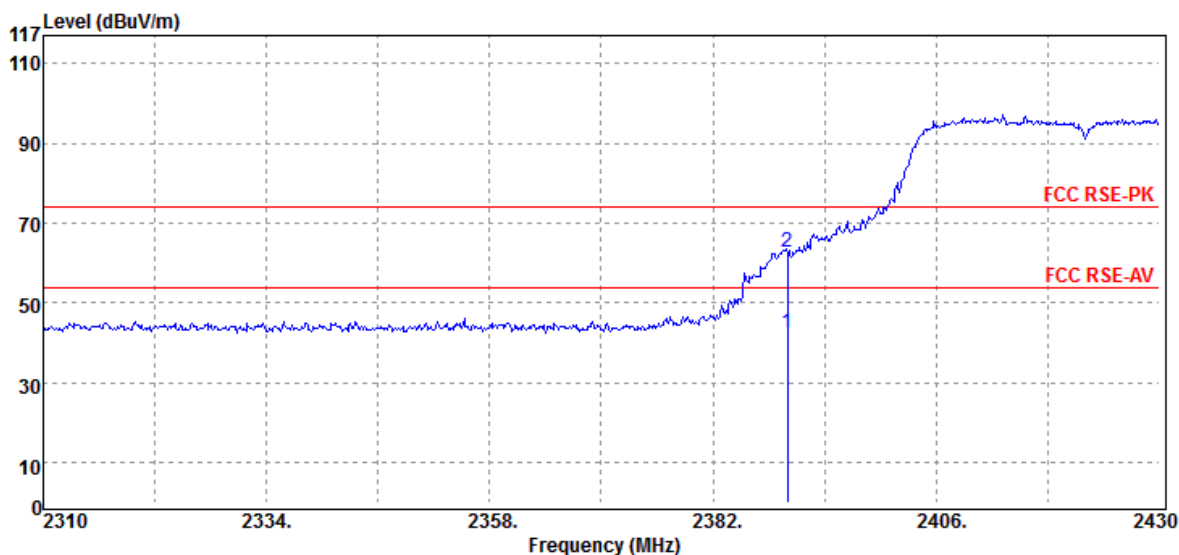
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Operation Band :802.11n40
Fundamental Frequency :2422 MHz
Operation Mode :Bandedge CH LOW
EUT Pol. :H Plane

Test Date :2018-01-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2390.00 | E | Average | 44.24 | -1.74 | 42.50 | 54.00 | -11.50 |
| 2390.00 | E | Peak | 64.55 | -1.74 | 62.81 | 74.00 | -11.19 |

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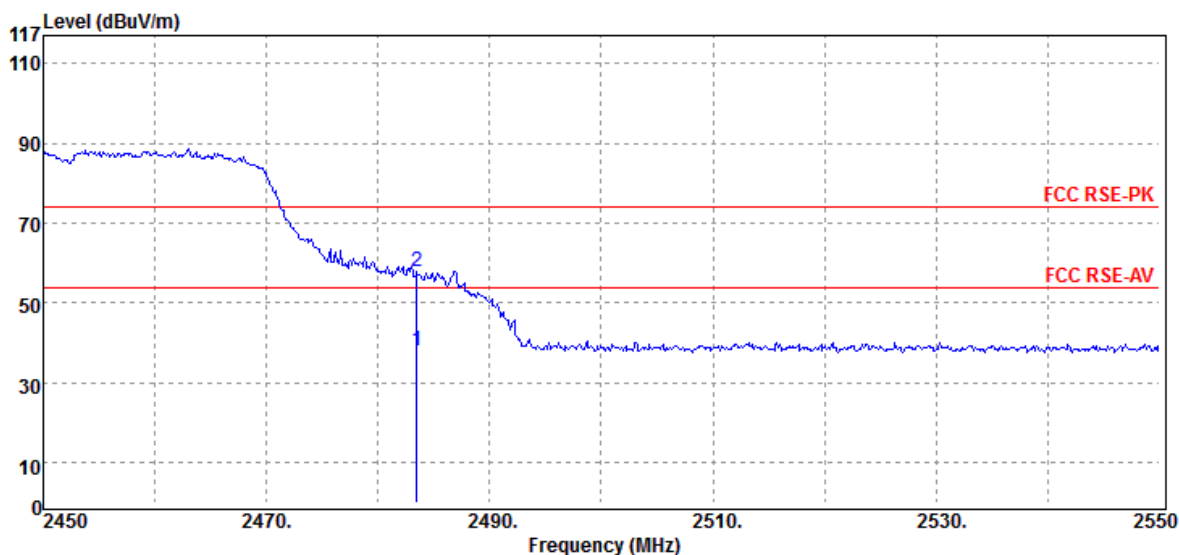
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Operation Band :802.11n40
 Fundamental Frequency :2452 MHz
 Operation Mode :Bandedge CH HIGH
 EUT Pol. :H Plane

Test Date :2018-01-19
 Temp./Humi. :21 deg_C / 62 RH
 Engineer :Tin
 Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 39.81 | -1.62 | 38.19 | 54.00 | -15.81 |
| 2483.50 | E | Peak | 59.49 | -1.62 | 57.87 | 74.00 | -16.13 |

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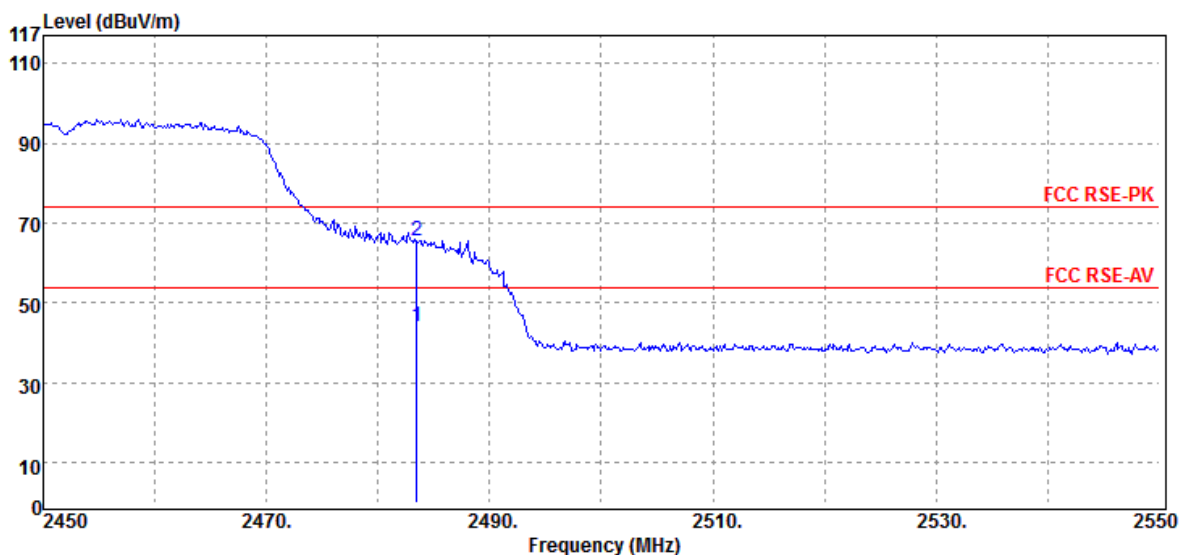
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Operation Band :802.11n40
Fundamental Frequency :2452 MHz
Operation Mode :Bandedge CH HIGH
EUT Pol. :H Plane

Test Date :2018-01-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 2483.50 | E | Average | 45.74 | -1.62 | 44.12 | 54.00 | -9.88 |
| 2483.50 | E | Peak | 67.16 | -1.62 | 65.54 | 74.00 | -8.46 |

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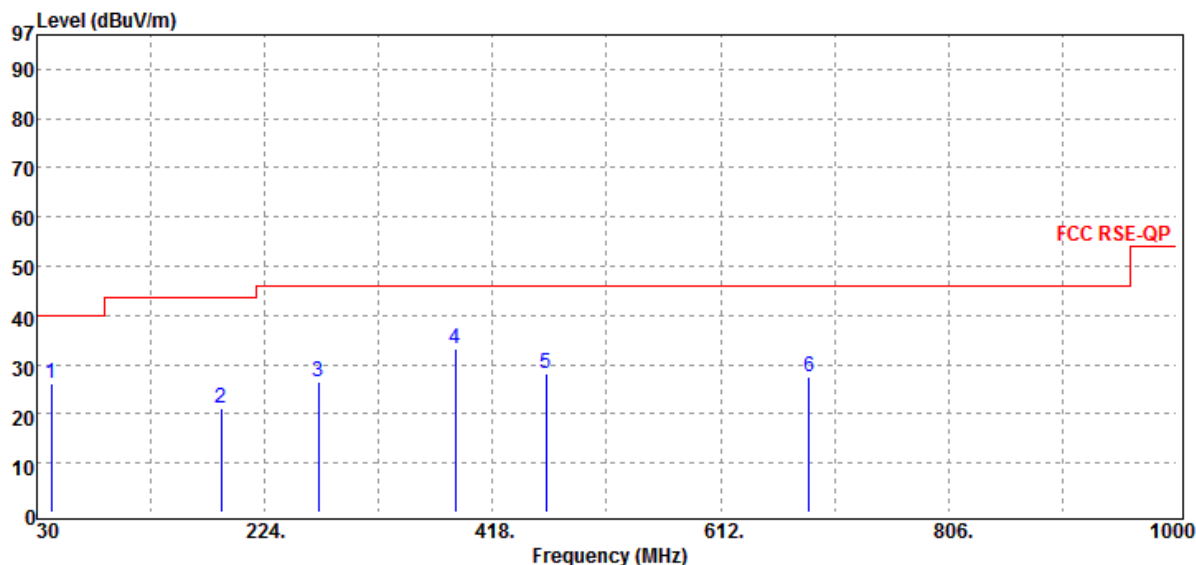
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Below 1GHz Data: (Worst Case)

Operation Band :802.11g
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-01-22
Temp./Humi. :22 deg_C / 61 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 42.61 | S | Peak | 34.54 | -8.29 | 26.25 | 40.00 | -13.75 |
| 187.14 | S | Peak | 30.30 | -9.15 | 21.15 | 43.50 | -22.35 |
| 269.59 | S | Peak | 33.30 | -6.93 | 26.37 | 46.00 | -19.63 |
| 385.99 | S | Peak | 37.61 | -4.31 | 33.30 | 46.00 | -12.70 |
| 463.59 | S | Peak | 30.88 | -2.55 | 28.33 | 46.00 | -17.67 |
| 687.66 | S | Peak | 26.47 | 1.20 | 27.67 | 46.00 | -18.33 |

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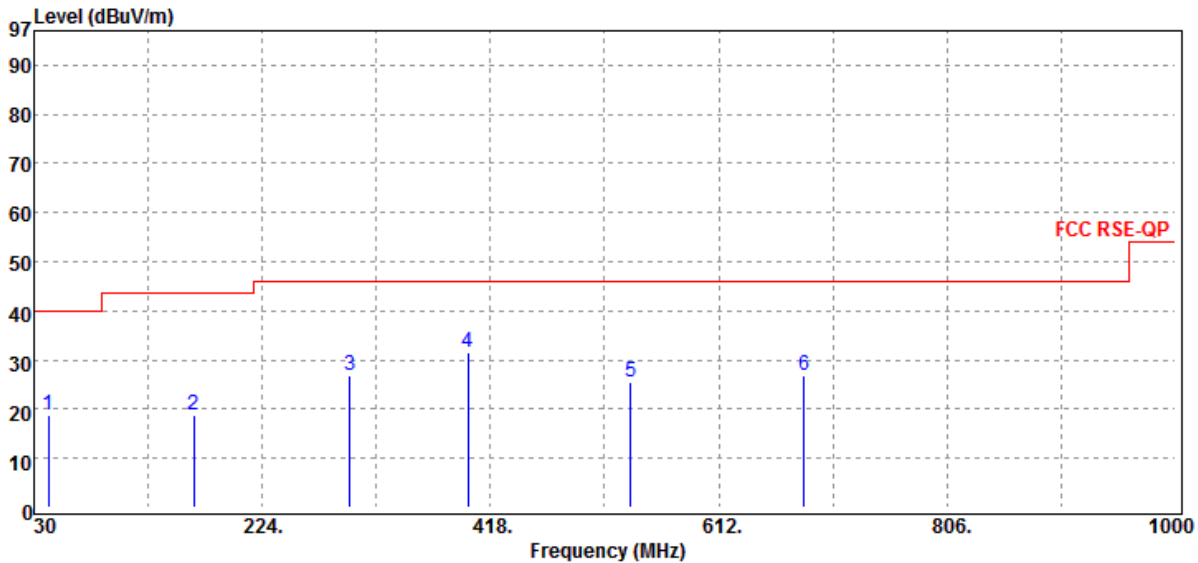
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11g | Test Date | :2018-01-22 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :22 deg_C / 61 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Margin |
|--------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | dB |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | |
| 42.61 | S | Peak | 27.04 | -8.29 | 18.75 | 40.00 | -21.25 |
| 165.80 | S | Peak | 26.23 | -7.40 | 18.83 | 43.50 | -24.67 |
| 298.69 | S | Peak | 32.87 | -5.95 | 26.92 | 46.00 | -19.08 |
| 398.60 | S | Peak | 35.54 | -3.97 | 31.57 | 46.00 | -14.43 |
| 537.31 | S | Peak | 26.99 | -1.44 | 25.55 | 46.00 | -20.45 |
| 684.75 | S | Peak | 25.65 | 1.28 | 26.93 | 46.00 | -19.07 |

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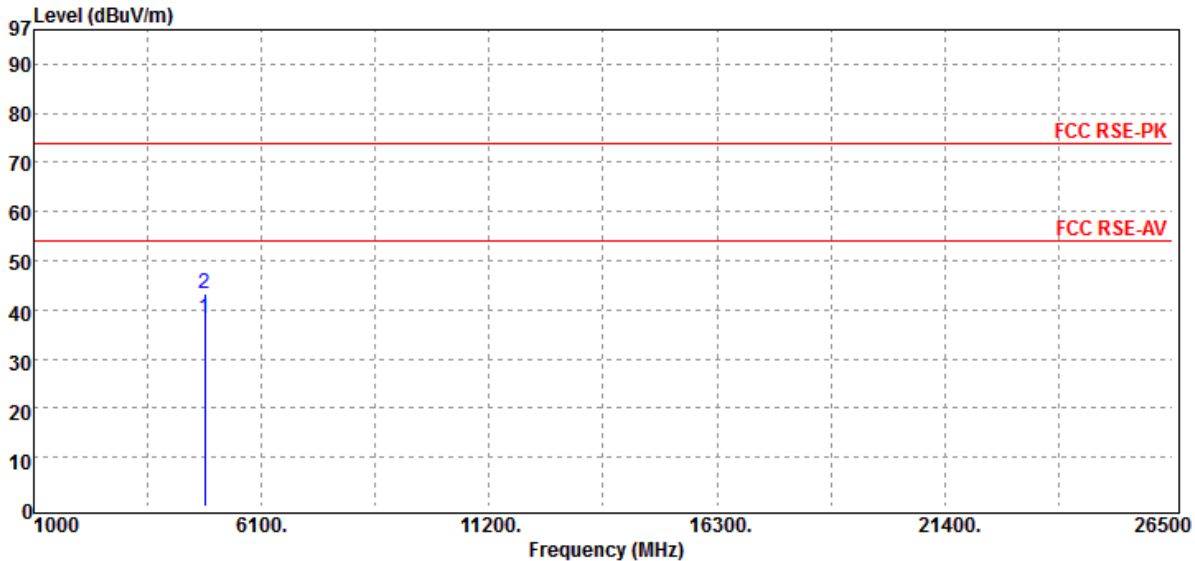
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Above 1GHz Data:

Radiated Spurious Emission Measurement Result (802.11 b)

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11b | Test Date | :2018-01-19 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | Margin |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | dB |
| 4824.00 | H | Average | 33.35 | 4.93 | 38.28 | 54.00 | -15.72 |
| 4824.00 | H | Peak | 38.48 | 4.93 | 43.41 | 74.00 | -30.59 |

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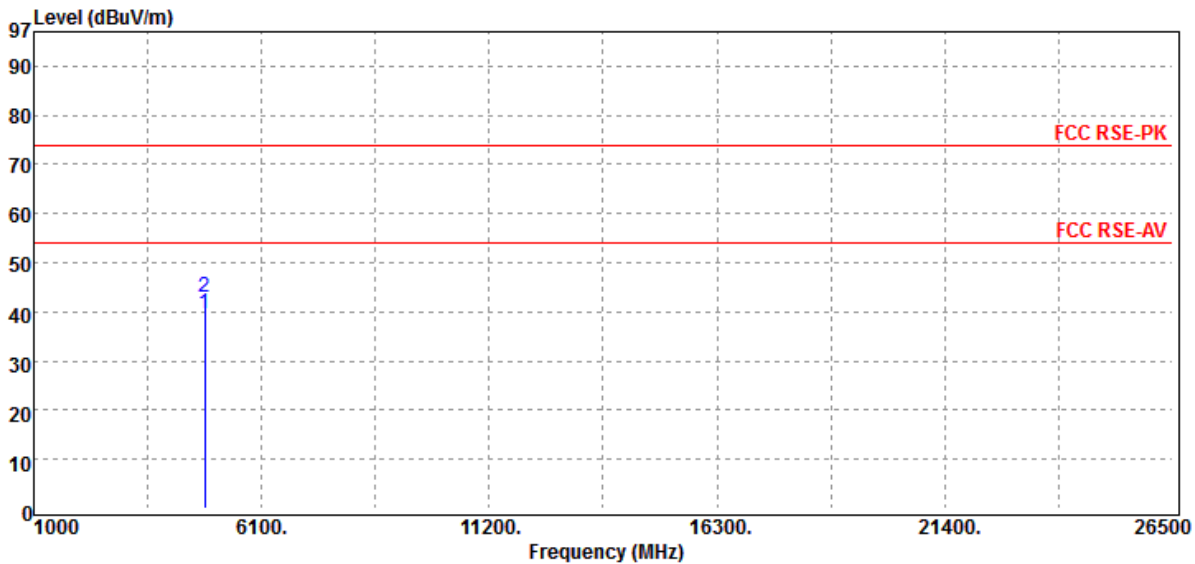
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11b | Test Date | :2018-01-19 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | Margin |
| | | PK/QP/AV | dBμV | | dBμV/m | dBμV/m | dB |
| 4824.00 | H | Average | 34.67 | 4.93 | 39.60 | 54.00 | -14.40 |
| 4824.00 | H | Peak | 38.09 | 4.93 | 43.02 | 74.00 | -30.98 |

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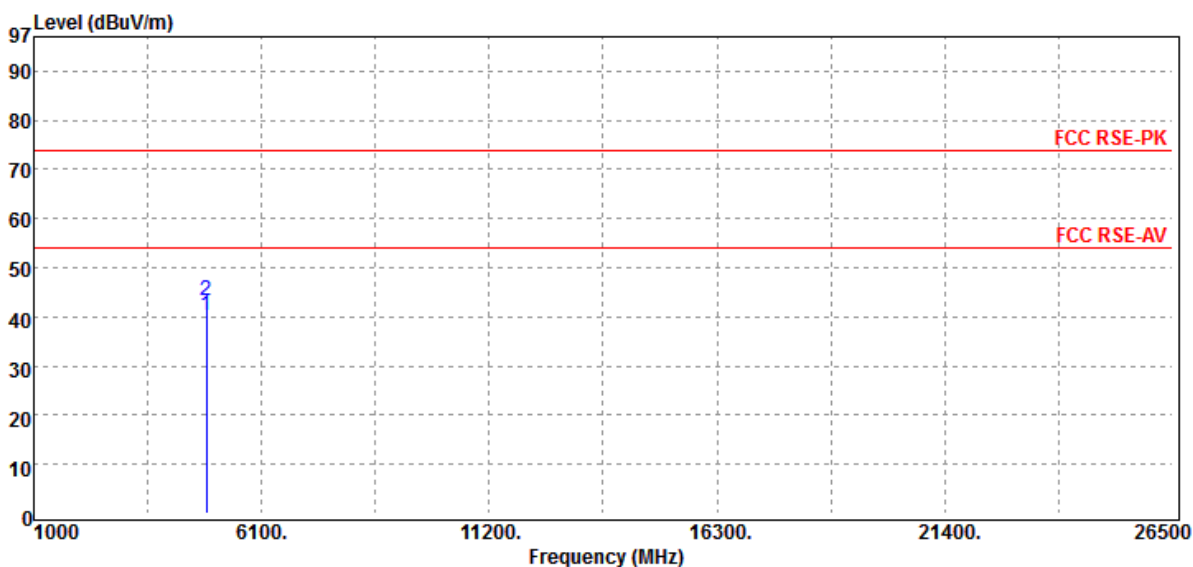
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11b | Test Date | :2018-01-19 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | Margin |
| | | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.00 | H | Average | 35.21 | 5.13 | 40.34 | 54.00 | -13.66 |
| 4874.00 | H | Peak | 38.11 | 5.13 | 43.24 | 74.00 | -30.76 |

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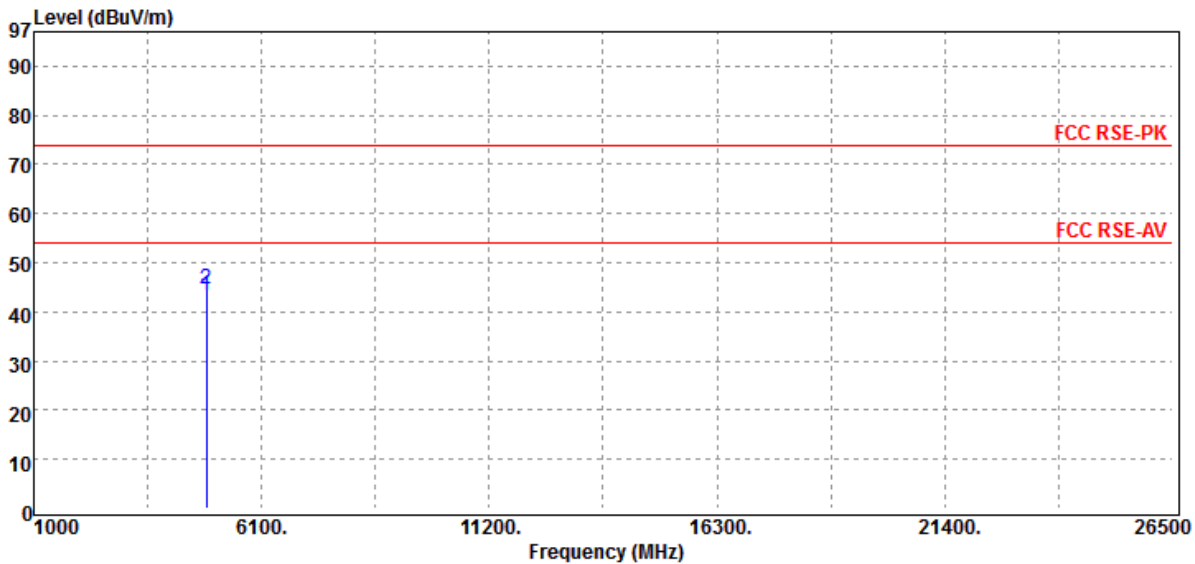
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11b | Test Date | :2018-01-19 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | Margin |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4874.00 | H | Average | 38.22 | 5.13 | 43.35 | 54.00 | -10.65 |
| 4874.00 | H | Peak | 39.52 | 5.13 | 44.65 | 74.00 | -29.35 |

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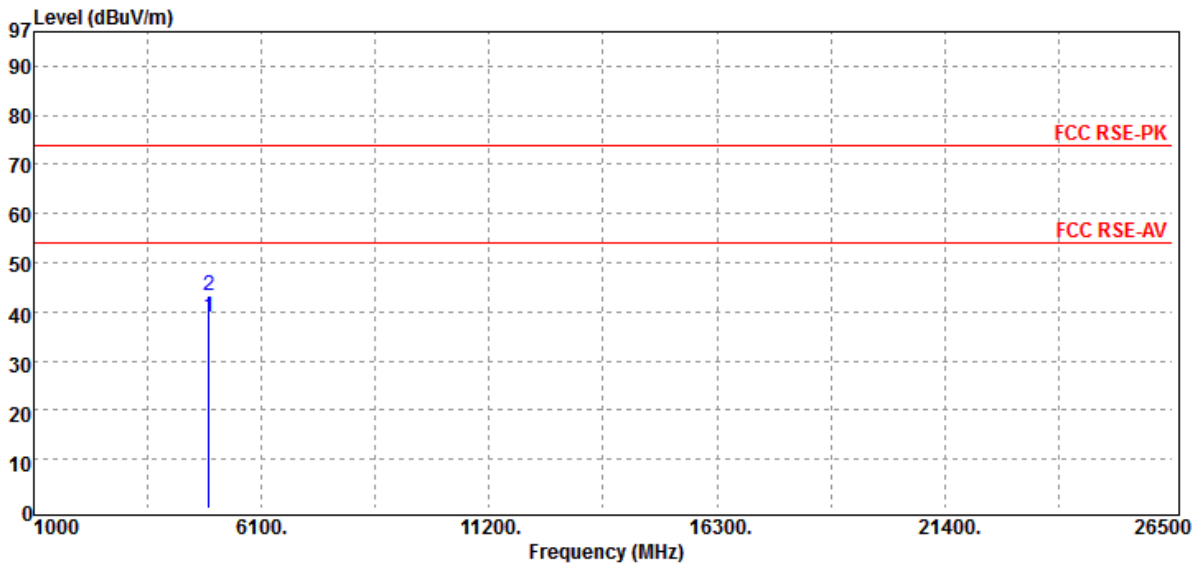
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :802.11b | Test Date | :2018-01-19 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4924.00 | H | Average | 33.59 | 5.25 | 38.84 | 54.00 | -15.16 |
| 4924.00 | H | Peak | 38.19 | 5.25 | 43.44 | 74.00 | -30.56 |

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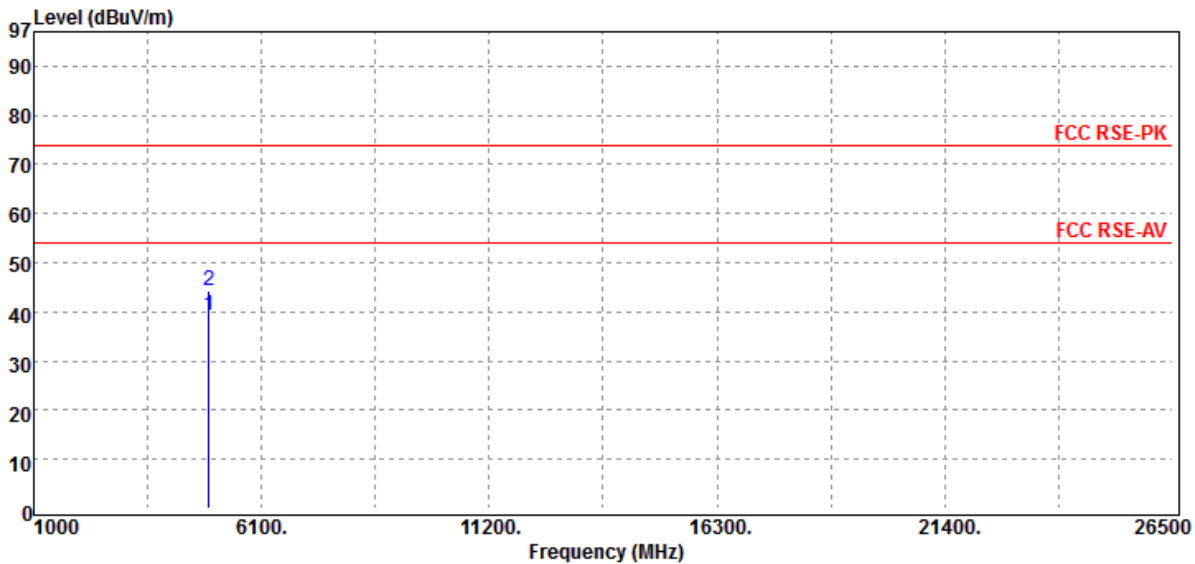
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :802.11b | Test Date | :2018-01-19 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4924.00 | H | Average | 34.17 | 5.25 | 39.42 | 54.00 | -14.58 |
| 4924.00 | H | Peak | 39.19 | 5.25 | 44.44 | 74.00 | -29.56 |

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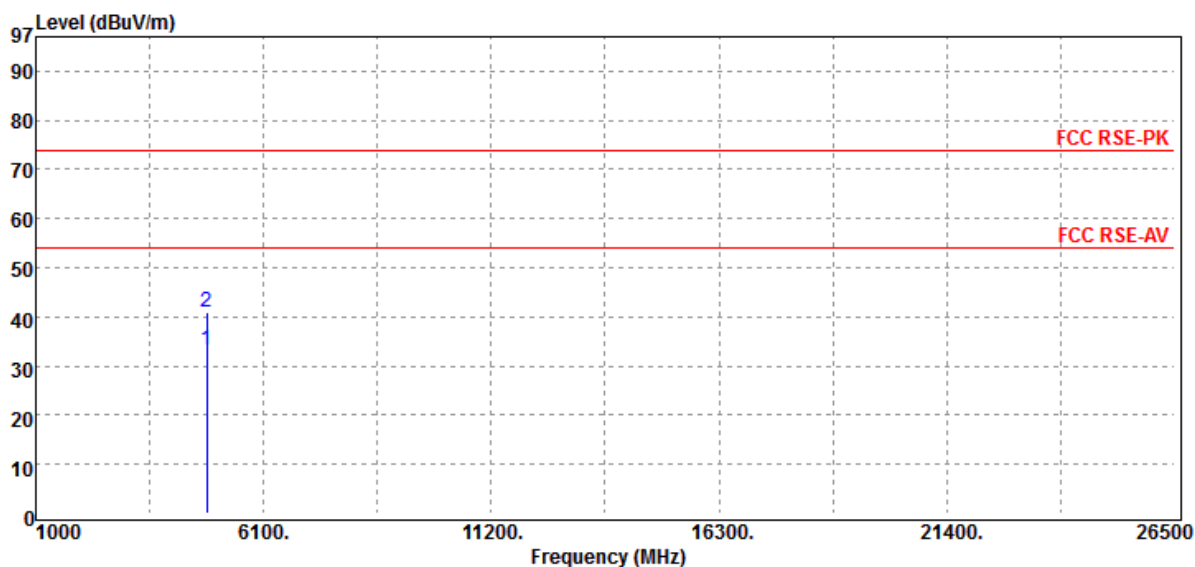
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Radiated Spurious Emission Measurement Result (802.11 g)

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11g | Test Date | :2018-01-19 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4824.00 | H | Average | 28.29 | 4.93 | 33.22 | 54.00 | -20.78 |
| 4824.00 | H | Peak | 36.09 | 4.93 | 41.02 | 74.00 | -32.98 |

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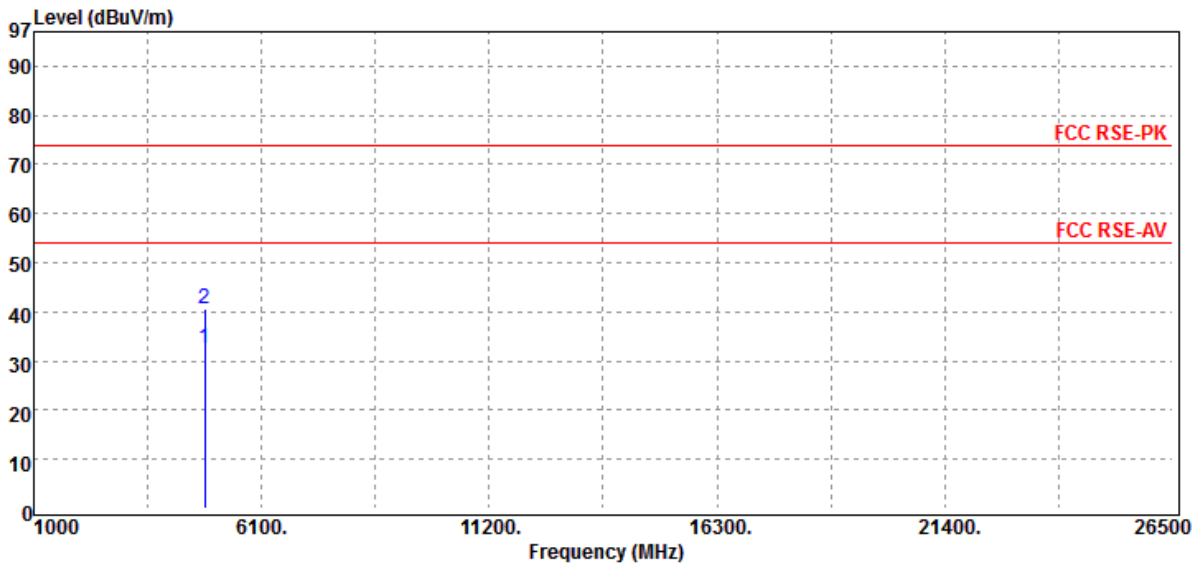
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11g | Test Date | :2018-01-19 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4824.00 | H | Average | 27.47 | 4.93 | 32.40 | 54.00 | -21.60 |
| 4824.00 | H | Peak | 35.62 | 4.93 | 40.55 | 74.00 | -33.45 |

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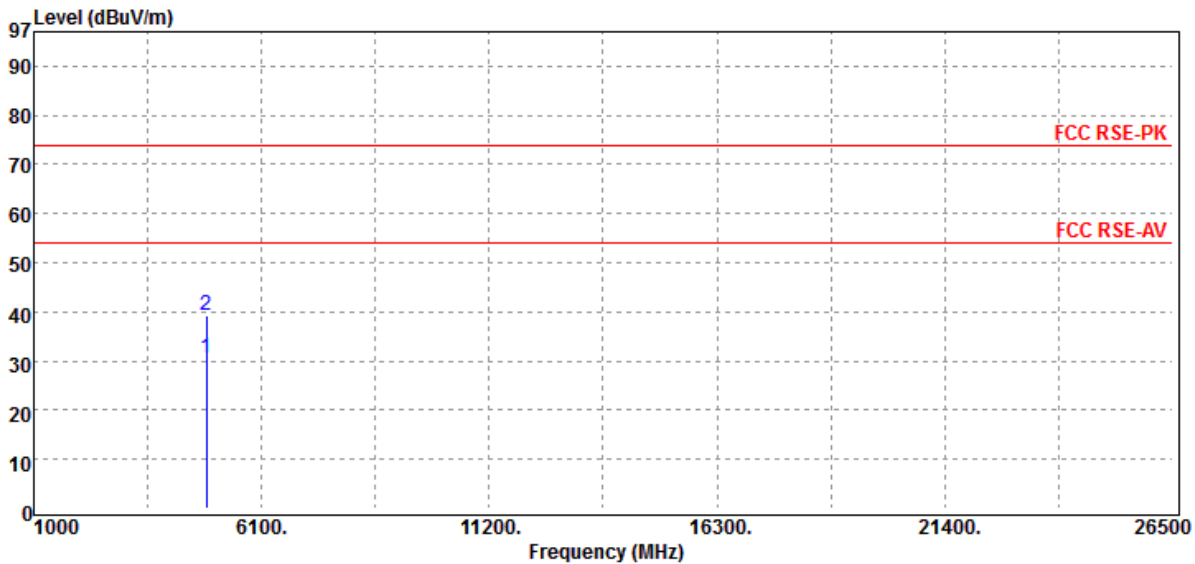
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|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11g | Test Date | :2018-01-19 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4874.00 | H | Average | 25.44 | 5.13 | 30.57 | 54.00 | -23.43 |
| 4874.00 | H | Peak | 34.08 | 5.13 | 39.21 | 74.00 | -34.79 |

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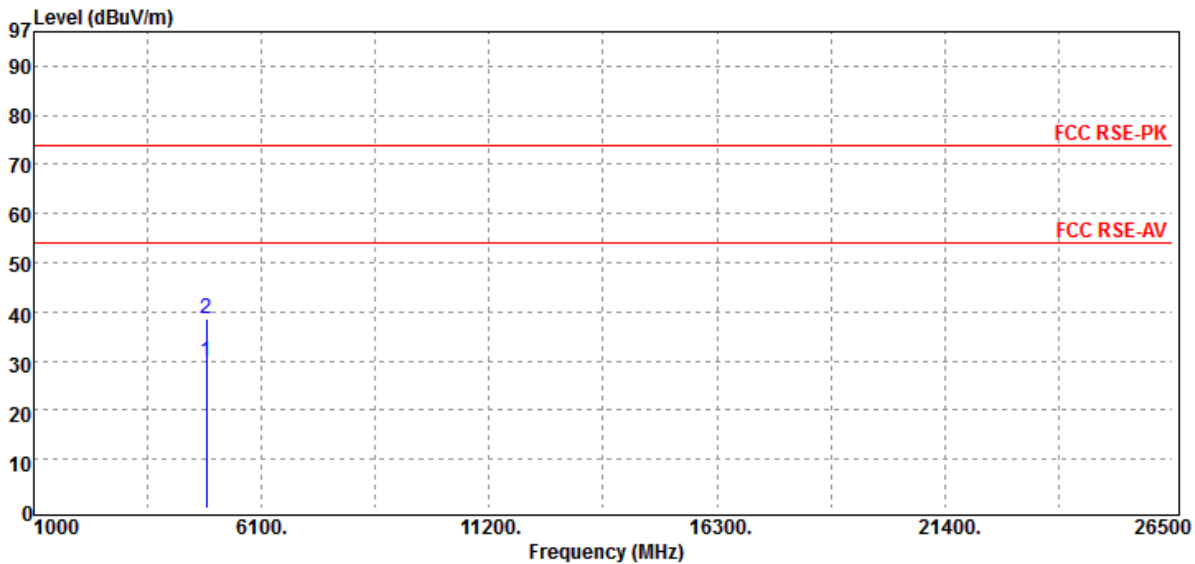
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11g | Test Date | :2018-01-19 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4874.00 | H | Average | 24.89 | 5.13 | 30.02 | 54.00 | -23.98 |
| 4874.00 | H | Peak | 33.38 | 5.13 | 38.51 | 74.00 | -35.49 |

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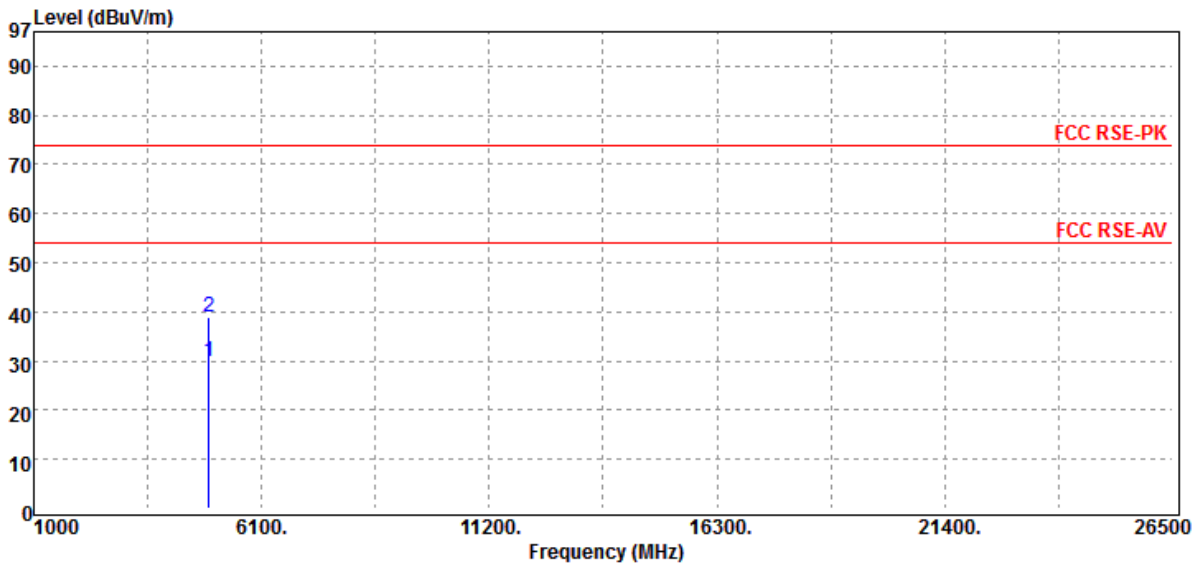
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|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :802.11g | Test Date | :2018-01-19 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4924.00 | H | Average | 24.69 | 5.25 | 29.94 | 54.00 | -24.06 |
| 4924.00 | H | Peak | 33.81 | 5.25 | 39.06 | 74.00 | -34.94 |

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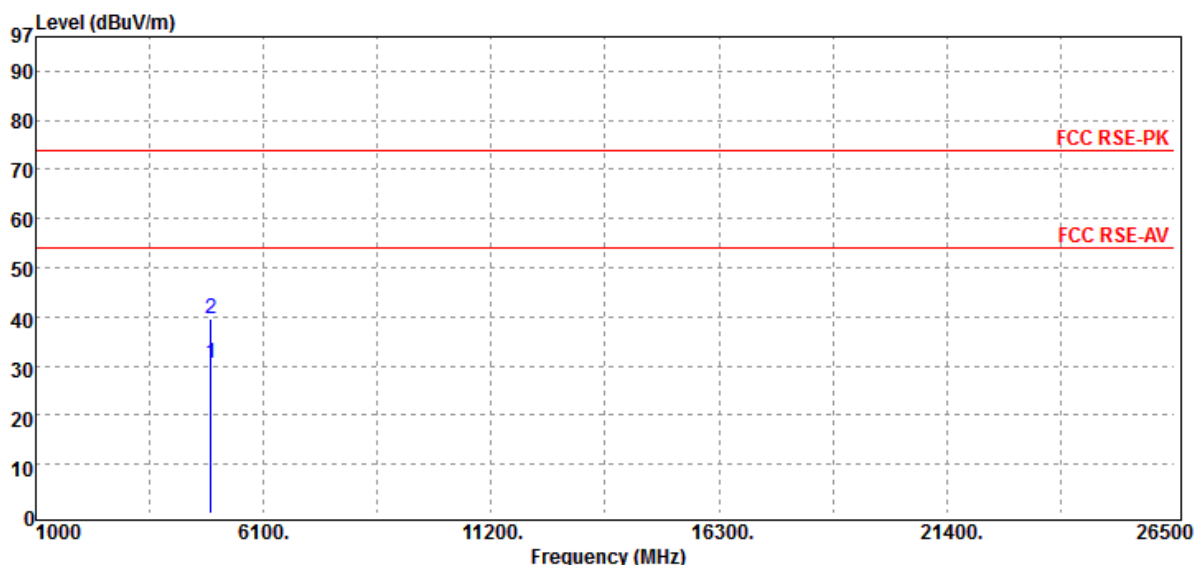
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :802.11g | Test Date | :2018-01-19 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4924.00 | H | Average | 25.17 | 5.25 | 30.42 | 54.00 | -23.58 |
| 4924.00 | H | Peak | 34.28 | 5.25 | 39.53 | 74.00 | -34.47 |

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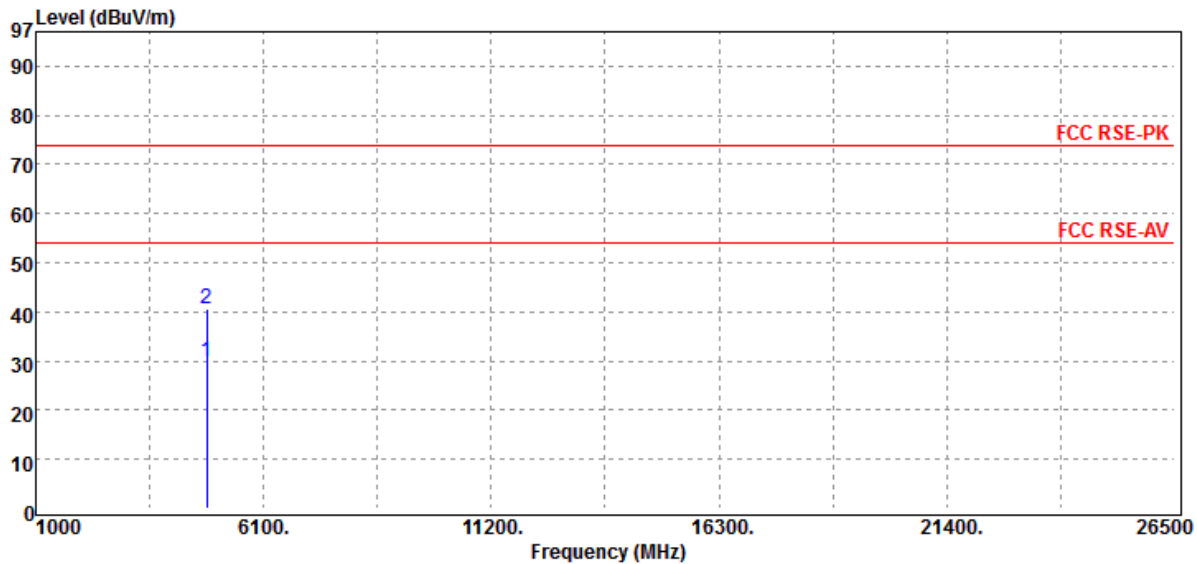
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Radiated Spurious Emission Measurement Result (802.11 n_HT20)

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11n20 | Test Date | :2018-01-19 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | dB | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBuV | dB | dBuV/m | dBuV/m | dB |
| 4824.00 | H | Average | 24.93 | 4.93 | 29.86 | 54.00 | -24.14 |
| 4824.00 | H | Peak | 35.72 | 4.93 | 40.65 | 74.00 | -33.35 |

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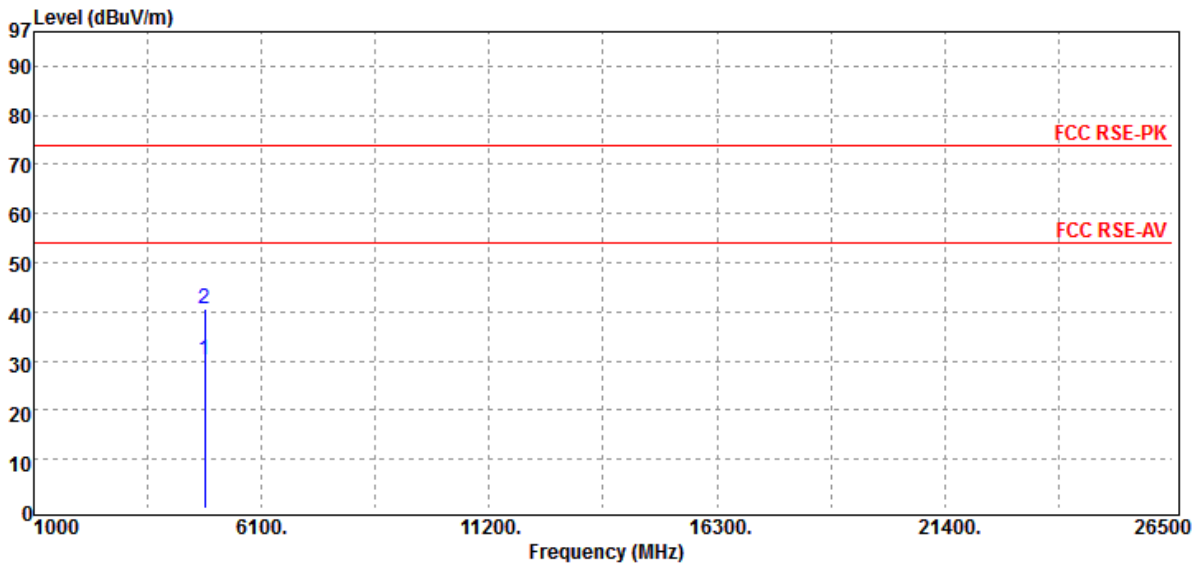
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11n20 | Test Date | :2018-01-19 |
| Fundamental Frequency | :2412 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4824.00 | H | Average | 25.12 | 4.93 | 30.05 | 54.00 | -23.95 |
| 4824.00 | H | Peak | 35.56 | 4.93 | 40.49 | 74.00 | -33.51 |

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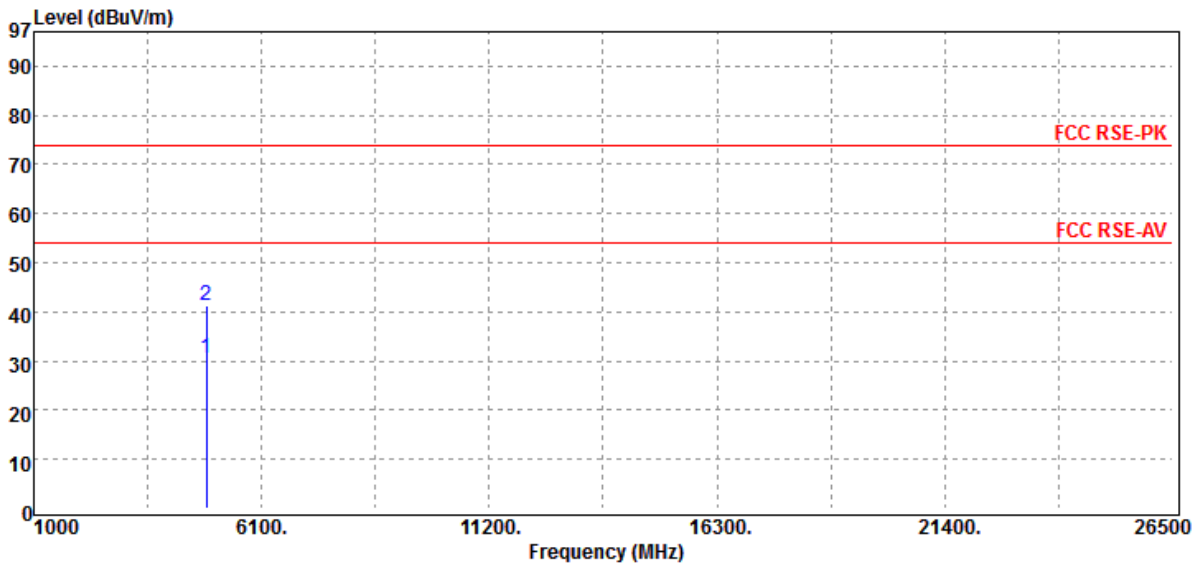
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Operation Band :802.11n20
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-01-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :VERTICAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @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 | Average | 25.29 | 5.13 | 30.42 | 54.00 | -23.58 |
| 4874.00 | H | Peak | 36.23 | 5.13 | 41.36 | 74.00 | -32.64 |

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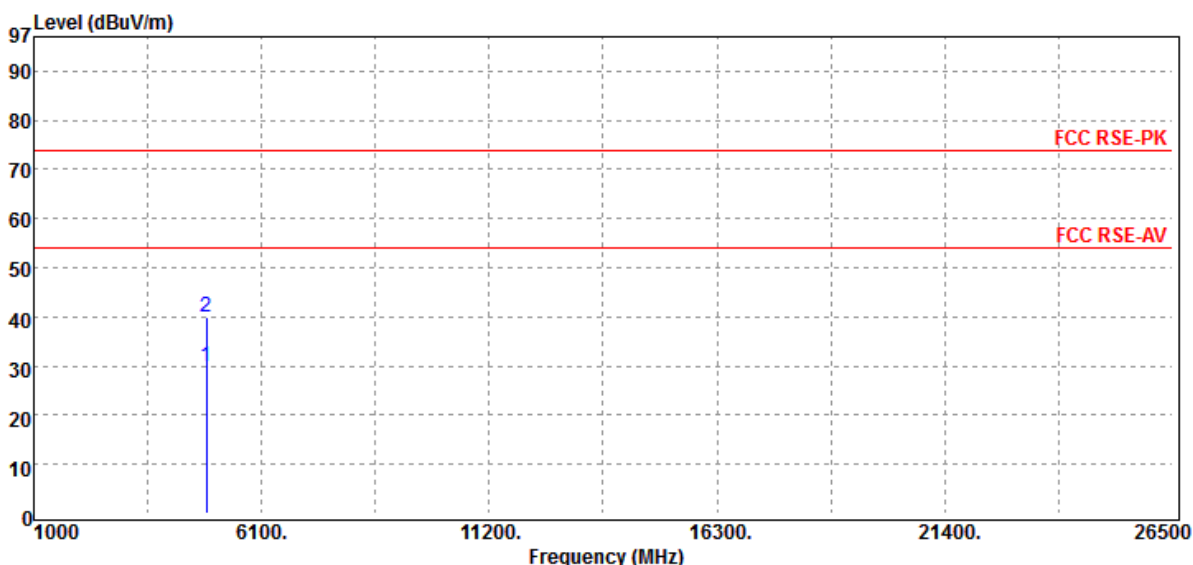
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Operation Band :802.11n20
Fundamental Frequency :2437 MHz
Operation Mode :Tx CH MID
EUT Pol. :H Plane

Test Date :2018-01-19
Temp./Humi. :21 deg_C / 62 RH
Engineer :Tin
Measurement Antenna Pol. :HORIZONTAL



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4874.00 | H | Average | 24.89 | 5.13 | 30.02 | 54.00 | -23.98 |
| 4874.00 | H | Peak | 34.88 | 5.13 | 40.01 | 74.00 | -33.99 |

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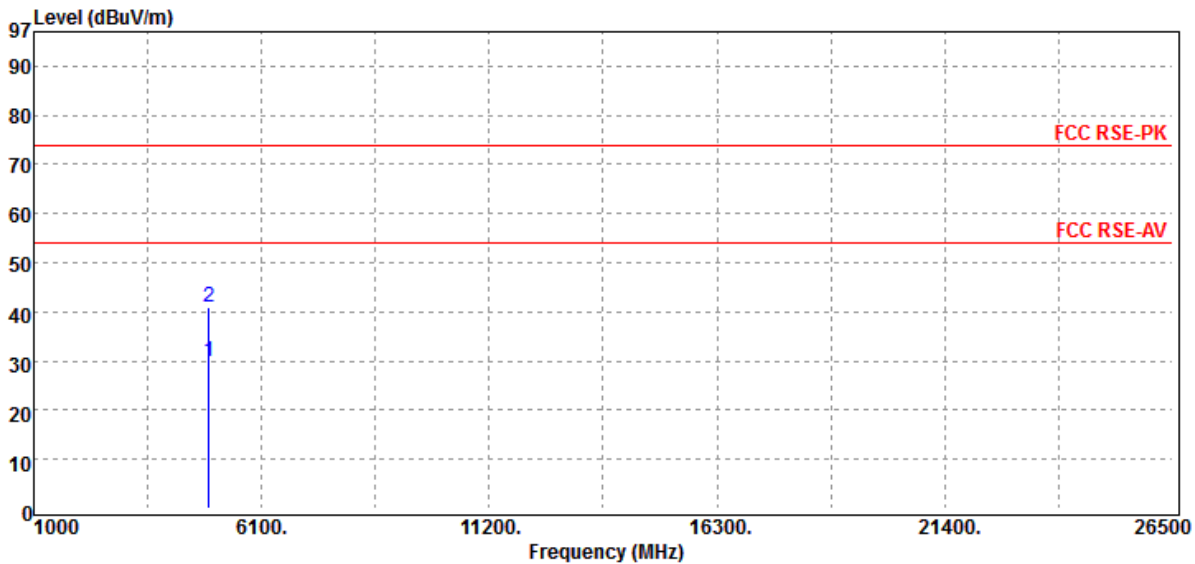
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|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :802.11n20 | Test Date | :2018-01-19 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | Margin |
| | | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4924.00 | H | Average | 24.46 | 5.25 | 29.71 | 54.00 | -24.29 |
| 4924.00 | H | Peak | 35.73 | 5.25 | 40.98 | 74.00 | -33.02 |

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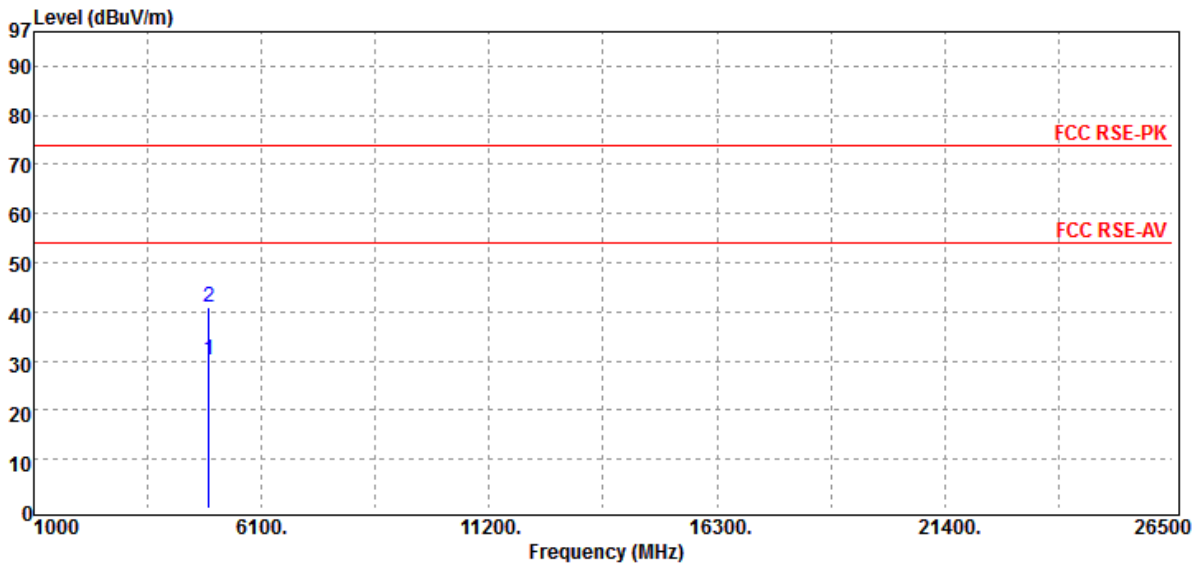
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :802.11n20 | Test Date | :2018-01-19 |
| Fundamental Frequency | :2462 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | Margin |
| | | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4924.00 | H | Average | 25.03 | 5.25 | 30.28 | 54.00 | -23.72 |
| 4924.00 | H | Peak | 35.63 | 5.25 | 40.88 | 74.00 | -33.12 |

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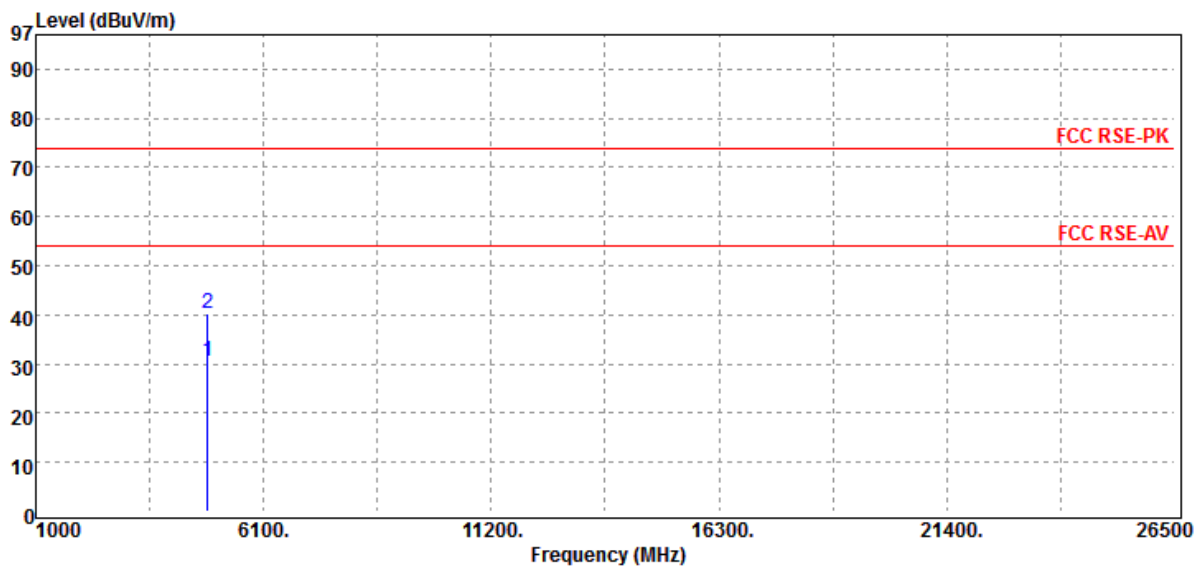
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Radiated Spurious Emission Measurement Result (802.11 n_HT40)

| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11n40 | Test Date | :2018-01-19 |
| Fundamental Frequency | :2422 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4844.00 | H | Average | 25.58 | 4.97 | 30.55 | 54.00 | -23.45 |
| 4844.00 | H | Peak | 35.27 | 4.97 | 40.24 | 74.00 | -33.76 |

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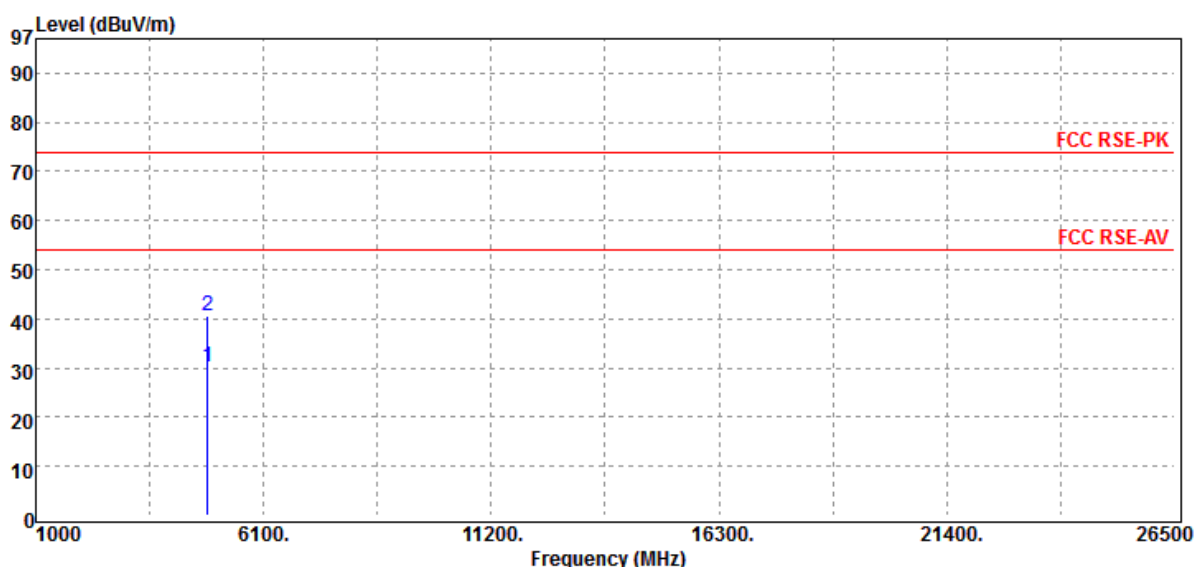
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11n40 | Test Date | :2018-01-19 |
| Fundamental Frequency | :2422 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH LOW | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------------|--------------|--------|
| | | Mode | Reading Level | | FS | @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 | Average | 25.08 | 4.97 | 30.05 | 54.00 | -23.95 |
| 4844.00 | H | Peak | 35.59 | 4.97 | 40.56 | 74.00 | -33.44 |

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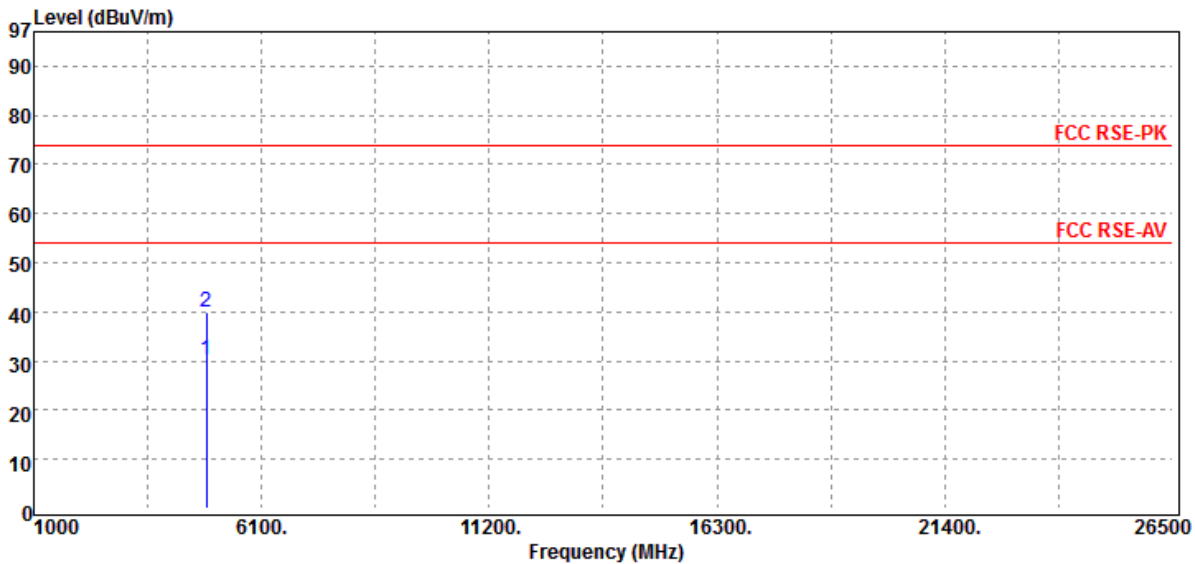
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11n40 | Test Date | :2018-01-19 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------------|--------------|--------|
| MHz | F/H/E/S | Mode | Reading Level | | FS | @3m | Margin |
| | | PK/QP/AV | dB μ V | dB | dB μ V/m | dB μ V/m | dB |
| 4874.00 | H | Average | 24.99 | 5.13 | 30.12 | 54.00 | -23.88 |
| 4874.00 | H | Peak | 34.86 | 5.13 | 39.99 | 74.00 | -34.01 |

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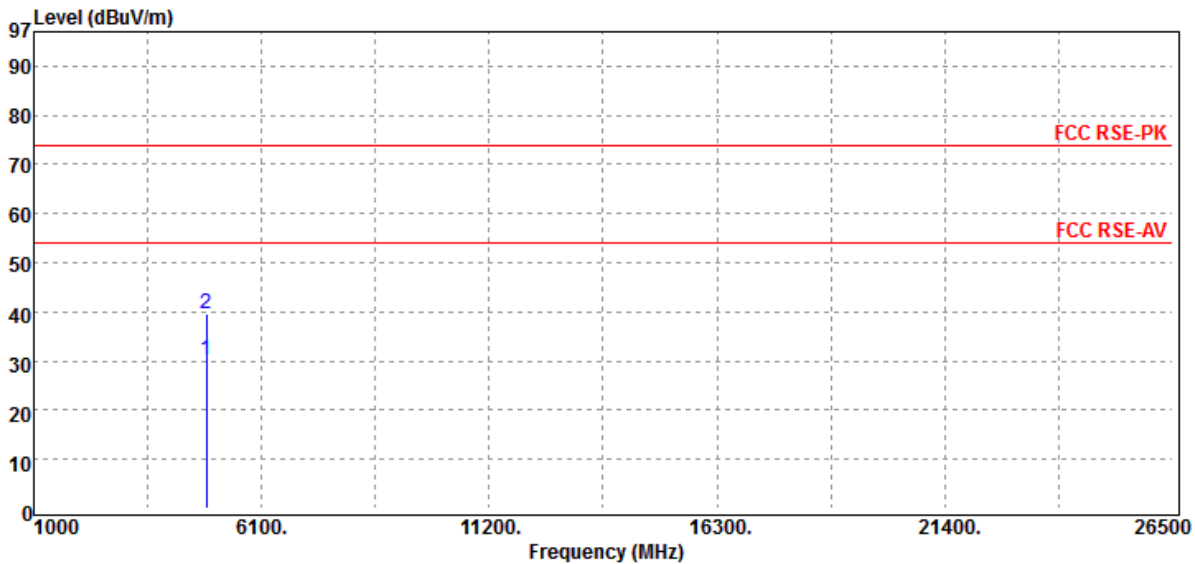
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| | | | |
|-----------------------|------------|--------------------------|-------------------|
| Operation Band | :802.11n40 | Test Date | :2018-01-19 |
| Fundamental Frequency | :2437 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH MID | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4874.00 | H | Average | 24.91 | 5.13 | 30.04 | 54.00 | -23.96 |
| 4874.00 | H | Peak | 34.33 | 5.13 | 39.46 | 74.00 | -34.54 |

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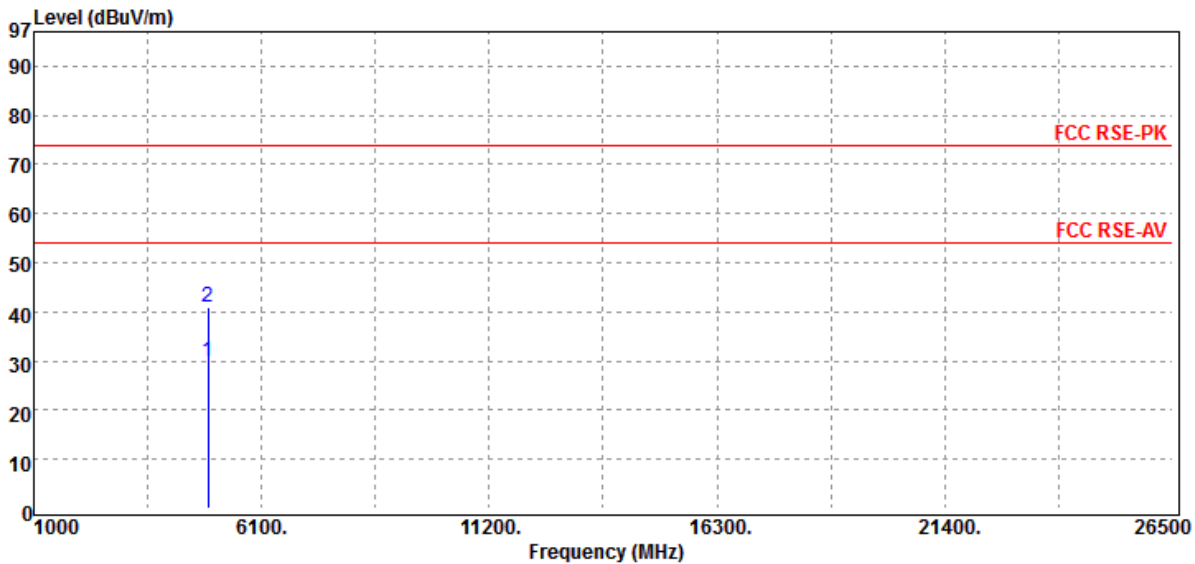
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :802.11n40 | Test Date | :2018-01-19 |
| Fundamental Frequency | :2452 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------|--------|--------|
| | | Mode | Reading Level | | FS | @3m | Margin |
| MHz | F/H/E/S | PK/QP/AV | dBμV | dB | dBμV/m | dBμV/m | dB |
| 4904.00 | H | Average | 24.77 | 5.24 | 30.01 | 54.00 | -23.99 |
| 4904.00 | H | Peak | 35.74 | 5.24 | 40.98 | 74.00 | -33.02 |

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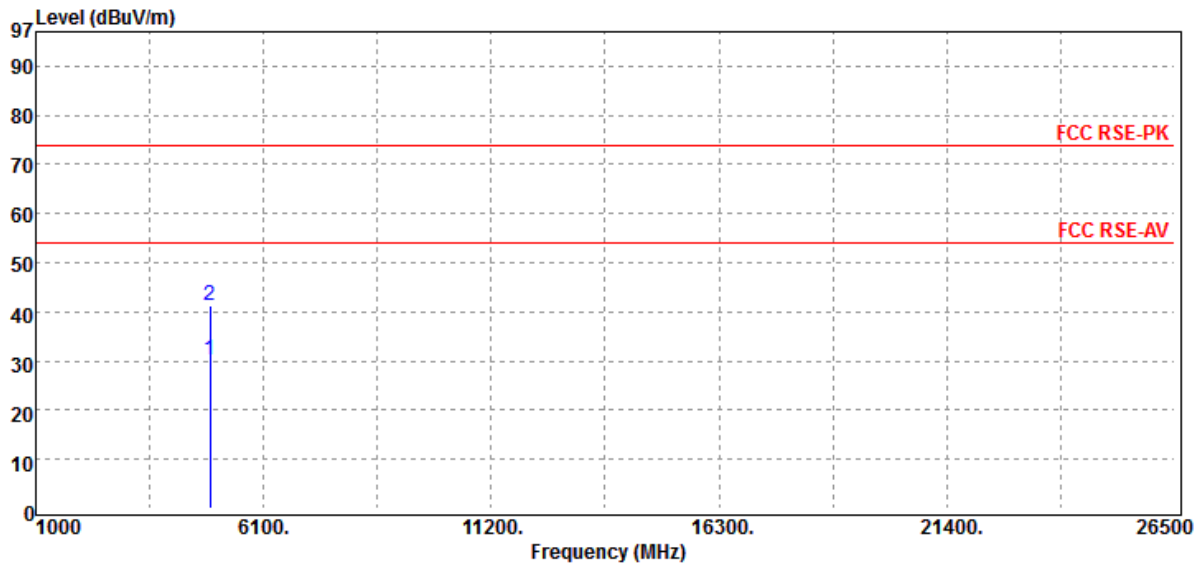
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| | | | |
|-----------------------|-------------|--------------------------|-------------------|
| Operation Band | :802.11n40 | Test Date | :2018-01-19 |
| Fundamental Frequency | :2452 MHz | Temp./Humi. | :21 deg_C / 62 RH |
| Operation Mode | :Tx CH HIGH | Engineer | :Tin |
| EUT Pol. | :H Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. | Note | Detector | Spectrum | Factor | Actual | Limit | Safe |
|---------|---------|----------|---------------|--------|--------------|--------------|--------|
| | | Mode | Reading Level | | FS | @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 | Average | 25.03 | 5.24 | 30.27 | 54.00 | -23.73 |
| 4904.00 | H | Peak | 36.10 | 5.24 | 41.34 | 74.00 | -32.66 |

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7 ANTENNA REQUIREMENT

7.1 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.

7.2 Antenna Connected Construction:

An embedded-in antenna design is used.

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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