

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

Applicant: Murata Manufacturing Co., Ltd.
10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto 617-8555
Japan

Product Name: Communication Module

Brand Name: muRata

Model No.: LBWA0ZZ2DS

Model Difference: N/A

Report Number: E2/2020/B0003

FCC ID VPYLBWA0ZZ2DS

IC: 772C-LBWA0ZZ2DS

FCC Rule Part: §15.247, Cat: DTS

IC RSS: RSS-247 issue 2 Feb 2017

Issue Date: December 17, 2020

Date of Test: November 4, 2020 - November 23, 2020

Date of EUT Received: November 4, 2020

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab 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.

Approved By: _____



Jay Lin / Asst. Supervisor



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Revision History

| Report Number | Revision | Description | Issue Date | Remark |
|---------------|----------|-------------|----------------------|----------------------------|
| E2/2020/B0003 | Rev.00 | Original. | December 17, 2020 | Revised By: Karen Huang |
| | | | | |

Note:

1、Disclaimer

Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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1 GENERAL INFORMATION

1.1 Product description

| | |
|-------------------|------------------------------|
| Product Name: | Communication Module |
| Brand Name: | muRata |
| Model No.: | LBWA0ZZ2DS |
| Model Difference: | N/A |
| Hardware Version: | 1.0 |
| Software Version: | 1.0 |
| EUT Series No.: | 022152 |
| Power Supply: | 3.3 Vdc from DC power supply |

| Wi-Fi 802.11 | Frequency Range | Channels | Rated Power (dBm) | Modulation Technology |
|------------------|--|----------|-------------------|-----------------------|
| b | 2412-2462 | 11 | 21.43 | DSSS |
| g | | | 25.59 | OFDM |
| n_HT20 | | | 25.37 | |
| Modulation type: | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM | | | |
| Transission Rate | 802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_HT20MHz: 6.5 – 72.2 Mbps | | | |

1.2 Antenna Designation

| Antenna Type | Freq. | Peak Antenna Gain (dBi) |
|------------------|--------|-------------------------|
| Monopole Antenna | 2.4GHz | 4 |

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247
FCC KDB 558074 D01 15.247 Meas Guidance v05r02
RSS-247 issue 2 Feb. 2017
RSS-Gen. issue 5, Amendment 1, March 2019
ANSI C63.10:2013

1.4 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702)
No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333

FCC Designation number: TW0028

ISED CAB identifier: TW3702

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm 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 Conducted Test (RF)

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer with attenuator to protect the instrumentation. If a second antenna port is available, it is tested at one operating frequency, with other port(s) appropriately terminated, to verify it has similar output characteristics as the fully tested port.

2.3.3 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 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.

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2.4 Measurement Results Explanation Example

2.4.1 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 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

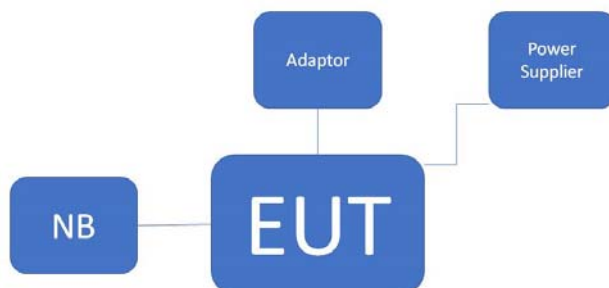


Fig. 2-2 Conducted (Antenna Port) Configuration Emission

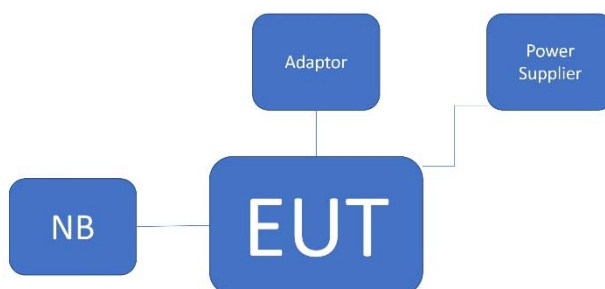


Table 2-1 Equipment Used in Tested System

| 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. | Power supplier | DHA | DPS-3003 | 9411005787 | N/A | N/A |
| 3. | Notebook | Lenovo | L440 | P0000367 | N/A | N/A |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | IC Rules | Description Of Test | Result |
|----------------------------------|--|--|-----------|
| §15.207(a) | RSS-Gen §8.8 | AC Power Line Conducted Emission | Compliant |
| §15.247(b) (3) | RSS-247 §5.4 d | Peak Output Power | Compliant |
| §15.247(a)(2) | RSS-247 §5.2 a RSS-Gen §6.7 | 6dB & 99% Emission Bandwidth | Compliant |
| §15.205 §15.209 §15.247(d) | RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13 | Radiated & Conducted Band Edge and Spurious Emission | Compliant |
| §15.247(e) | RSS-247 §5.2 b | Power Spectral Density | Compliant |
| §15.203 §15.247(b) | N/A | Antenna Requirement | Compliant |

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/n 20M.

| CHANNEL | FREQUENCY (MHz) |
|---------|-----------------|
| 1 | 2412 |
| 2 | 2417 |
| 3 | 2422 |
| 4 | 2427 |
| 5 | 2432 |
| 6 | 2437 |
| 7 | 2442 |
| 8 | 2447 |
| 9 | 2452 |
| 10 | 2457 |
| 11 | 2462 |

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4.2 The Worst Test Modes and Channel Details

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

| Modulation | Transmission Chain | | | | Single Transmission Spatial | Multiple Transmission Spatial |
|--|---|------------------------------|------------------------------|------------------------------|--|-------------------------------|
| <input checked="" type="checkbox"/> 802.11 b | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input checked="" type="checkbox"/> 1TX | <input type="checkbox"/> 2TX |
| <input checked="" type="checkbox"/> 802.11 g | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input checked="" type="checkbox"/> 1TX | <input type="checkbox"/> 2TX |
| <input checked="" type="checkbox"/> 802.11 n | <input checked="" type="checkbox"/> Ch0 | <input type="checkbox"/> Ch1 | <input type="checkbox"/> Ch2 | <input type="checkbox"/> Ch3 | <input checked="" type="checkbox"/> SISO | <input type="checkbox"/> MIMO |

4. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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4.3 Radiated Emission Test:

| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
|---|-------------------|----------------|------------|------------------|--------------|
| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | |
| 802.11g | 1 to 11 | 6 | OFDM | 6 | Ch0 |
| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | |
| 802.11b | 1 to 11 | 1, 6, 11 | DSSS | 1 | Ch0 |
| 802.11g | 1 to 11 | 1,2,6,10,11 | OFDM | 6 | Ch0 |
| 802.11n 20M | 1 to 11 | 1,2,6,10,11 | OFDM | MCS 0 | Ch0 |
| <p>Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for 802.11b/g/n WLAN Transmitter for channel Low, Mid and High, the worst case E1 position was reported.</p> | | | | | |

4.4 Antenna Port Conducted Measurement:

| CONDUCTED TEST | | | | | |
|-----------------------|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| 802.11b | 1 to 11 | 1, 6, 11 | DSSS | 1 | Ch0 |
| 802.11g | 1 to 11 | 1,2,6,10,11 | OFDM | 6 | Ch0 |
| 802.11n 20M | 1 to 11 | 1,2,6,10,11 | OFDM | MCS 0 | Ch0 |

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5 MEASUREMENT UNCERTAINTY

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

| Radiated Spurious Emission Measurement Uncertainty | |
|--|----------------------------|
| Polarization: Vertical | 9kHz~30MHz: +/-2.3dB |
| | 30MHz - 180MHz: +/- 3.37dB |
| | 180MHz -417MHz: +/- 3.19dB |
| | 0.417GHz-1GHz: +/- 3.19dB |
| | 1GHz - 18GHz: +/- 4.04dB |
| | 18GHz - 40GHz: +/- 4.04dB |
| Polarization: Horizontal | 9kHz~30MHz: +/-2.3dB |
| | 30MHz - 167MHz: +/- 4.22dB |
| | 167MHz -500MHz: +/- 3.44dB |
| | 0.5GHz-1GHz: +/- 3.39dB |
| | 1GHz - 18GHz: +/- 4.08dB |
| | 18GHz - 40GHz: +/- 4.08dB |

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

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

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

Note

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

6.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|--------------------------------|---------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR/BRAND | MODEL NUM-BER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| LISN | SCHWARZBECK Mess-Elektronik | NSLK8127 | 974 | 03/25/2020 | 03/24/2021 |
| EMI Test Receiver | R&S | ESCI | 101342 | 04/28/2020 | 04/27/2021 |
| DC Power Supply | DHA | DPS-3003 | 9411005787 | 08/19/2020 | 08/18/2021 |

6.3 EUT Setup

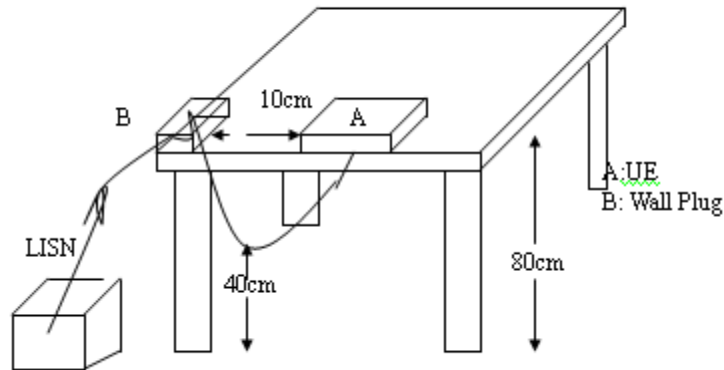
- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI 63.10:2013.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

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

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

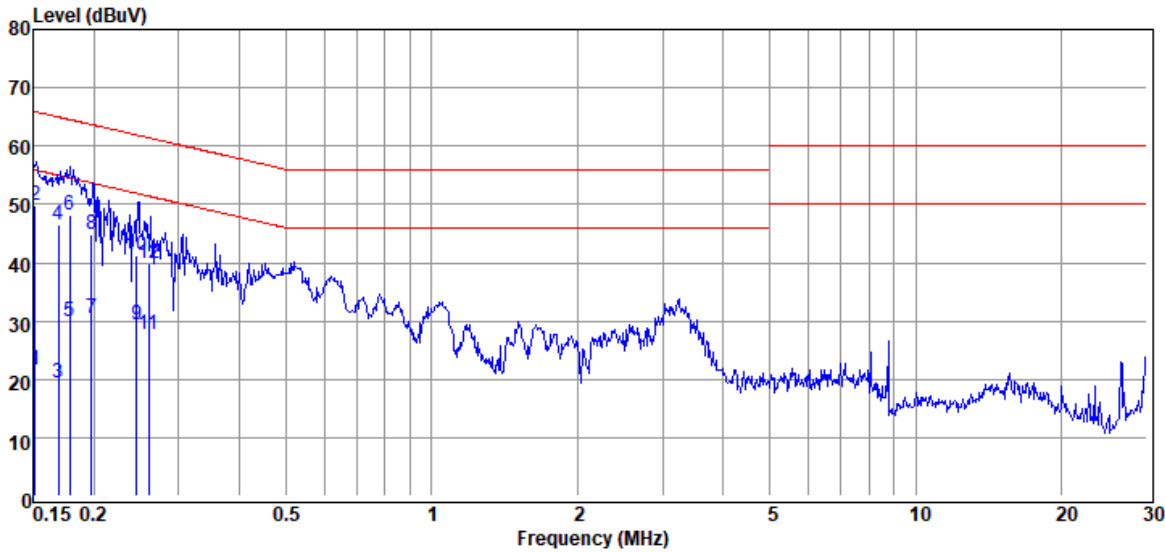
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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|---------------|--------------------|-------------|--------------------|
| Report Number | :E2-2020-B0003 | Test Site | :Conduction Room C |
| Test Mode | :WLAN 2.4G | Test Date | :2020-11-19 |
| Power | :120V/60Hz | Temp./Humi. | :23.5/64 |
| Probe | :L1 | Engineer | :Ashton Chiu |
| Note: | : Adapter:US300520 | | |



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|-------|----------|---------------|--------|--------|-------|--------|
| MHz | Mode | Reading Level | dB | FS | dBμV | dB |
| | PK/QP/AV | dBμV | | | | |
| 0.15 | Average | 11.27 | 10.22 | 21.49 | 55.94 | -34.45 |
| 0.15 | QP | 39.73 | 10.22 | 49.95 | 65.94 | -15.99 |
| 0.17 | Average | 9.12 | 10.22 | 19.34 | 54.99 | -35.65 |
| 0.17 | QP | 36.38 | 10.22 | 46.60 | 64.99 | -18.39 |
| 0.18 | Average | 19.81 | 10.22 | 30.03 | 54.56 | -24.53 |
| 0.18 | QP | 37.93 | 10.22 | 48.15 | 64.56 | -16.41 |
| 0.20 | Average | 20.22 | 10.22 | 30.44 | 53.70 | -23.26 |
| 0.20 | QP | 34.68 | 10.22 | 44.90 | 63.70 | -18.80 |
| 0.25 | Average | 19.01 | 10.22 | 29.23 | 51.90 | -22.67 |
| 0.25 | QP | 30.99 | 10.22 | 41.21 | 61.90 | -20.69 |
| 0.26 | Average | 17.41 | 10.22 | 27.63 | 51.43 | -23.80 |
| 0.26 | QP | 29.73 | 10.22 | 39.95 | 61.43 | -21.48 |

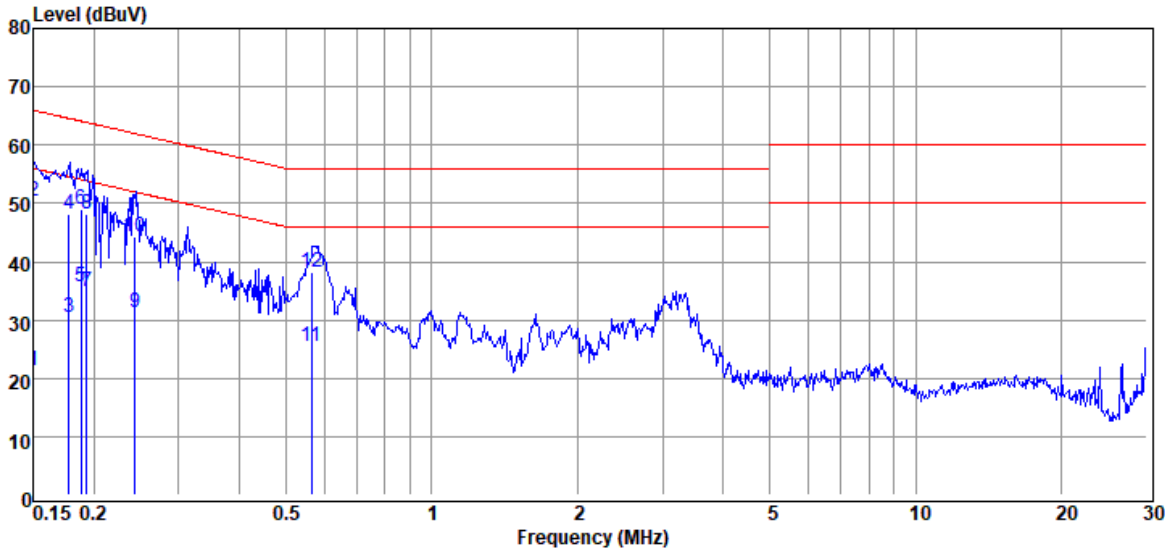
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Report Number :E2-2020-B0003
 Test Mode :WLAN 2.4G
 Power :120V/60Hz
 Probe :N
 Note: : Adapter:US300520

Test Site :Conduction Room C
 Test Date :2020-11-19
 Temp./Humi. :23.5/64
 Engineer :Ashton Chiu



| Freq. | Detector | Spectrum | Factor | Actual | Limit | Margin |
|-------|----------|---------------|--------|--------|-------|--------|
| MHz | Mode | Reading Level | dB | FS | dBuV | dB |
| MHz | PK/QP/AV | dBuV | dB | dBuV | dBuV | dB |
| 0.15 | Average | 11.04 | 10.21 | 21.25 | 56.00 | -34.75 |
| 0.15 | QP | 40.18 | 10.21 | 50.39 | 66.00 | -15.61 |
| 0.18 | Average | 20.17 | 10.21 | 30.38 | 54.59 | -24.21 |
| 0.18 | QP | 38.09 | 10.21 | 48.30 | 64.59 | -16.29 |
| 0.19 | Average | 25.54 | 10.21 | 35.75 | 54.10 | -18.35 |
| 0.19 | QP | 38.78 | 10.21 | 48.99 | 64.10 | -15.11 |
| 0.19 | Average | 24.62 | 10.21 | 34.83 | 53.89 | -19.06 |
| 0.19 | QP | 38.00 | 10.21 | 48.21 | 63.89 | -15.68 |
| 0.24 | Average | 21.18 | 10.21 | 31.39 | 51.99 | -20.60 |
| 0.24 | QP | 33.96 | 10.21 | 44.17 | 61.99 | -17.82 |
| 0.56 | Average | 15.19 | 10.26 | 25.45 | 46.00 | -20.55 |
| 0.56 | QP | 28.07 | 10.26 | 38.33 | 56.00 | -17.67 |

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7 DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1 Measurement Procedure:

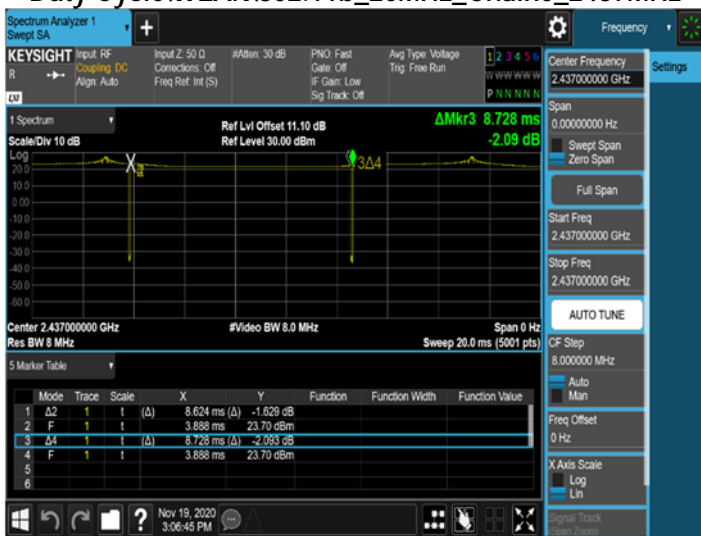
1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

7.2 Duty Cycle:

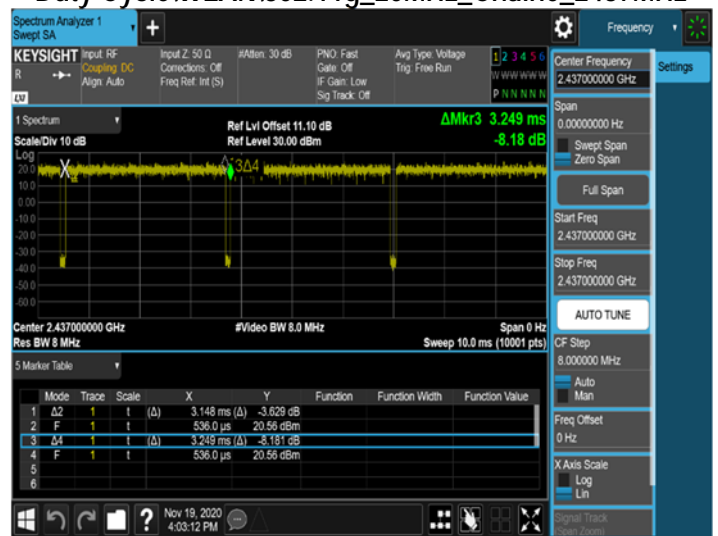
| | Duty Cycle (%) = Ton / (Ton+Toff) | Duty Factor (dB) = 10*log (1/Duty Cycle) | 1/T (kHz) | VBW setting (kHz) |
|------------|--------------------------------------|---|--------------|----------------------|
| 802.11b | 98.81 | 0.00 | 0.00 | 0.01 |
| 802.11g | 96.89 | 0.14 | 0.32 | 1.00 |
| 802.11n_20 | 96.66 | 0.15 | 0.34 | 1.00 |

7.3 Duty Cycle test plots

Duty Cycle\WLAN\802.11b_20MHz_Chain0_2437MHz



Duty Cycle\WLAN\802.11g_20MHz_Chain0_2437MHz

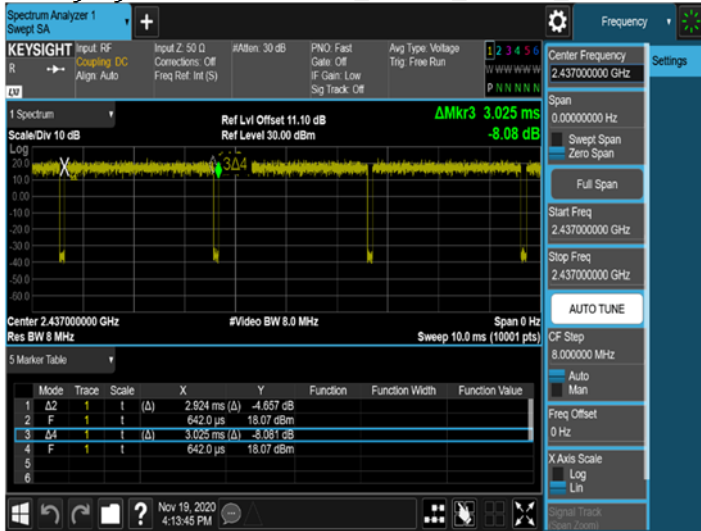


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Duty Cycle WLAN\802.11n_20MHz_Chain0_2437MHz



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8 PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt and the e.i.r.p. shall not exceed 4 W.

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

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

8.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR/BRAND | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| DC Power Supply | DHA | DPS-3003 | 9411005787 | 08/19/2020 | 08/18/2021 |
| Power Meter | Anritsu | ML2496A | 1326001 | 08/05/2020 | 08/04/2021 |
| Power Sensor | Anritsu | MA2411B | 1315048 | 08/05/2020 | 08/04/2021 |
| Power Sensor | Anritsu | MA2411B | 1315049 | 08/05/2020 | 08/04/2021 |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY59071574 | 06/24/2020 | 06/23/2021 |
| Attenuator | Woken | WATT-218FS-10 | RF03 | 11/19/2019 | 11/18/2020 |
| Attenuator | Marvelous | WATT-218FS-10 | RF23 | 11/19/2019 | 11/18/2020 |
| Coaxial Cables | Woken | 00100A1F1A185C | RF83 | 11/19/2019 | 11/18/2020 |

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown blow indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

| EQUIPMENT TYPE | MFR/BRAND | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|----------------|-----------|----------------|---------------|------------|------------|
| Attenuator | Woken | WATT-218FS-10 | RF03 | 11/19/2020 | 11/18/2021 |
| Attenuator | Marvelous | WATT-218FS-10 | RF23 | 11/19/2020 | 11/18/2021 |
| Coaxial Cables | Woken | 00100A1F1A185C | RF83 | 11/19/2020 | 11/18/2021 |

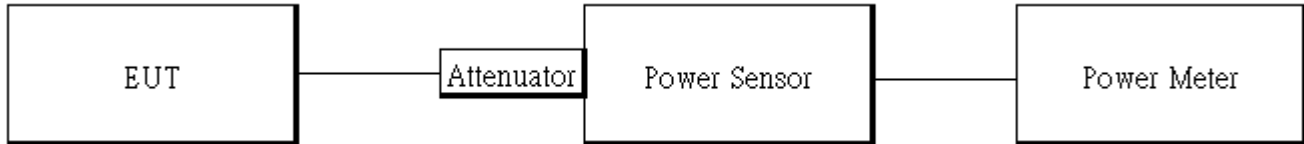
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8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

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

Power Meter:

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

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

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

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8.5 Measurement Result

| 802.11b Ch0 | | | | | |
|-------------|-------------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 21.38 | 30.00 | PASS |
| 6 | 2437 | 1 | 21.43 | 30.00 | PASS |
| 11 | 2462 | 1 | 21.40 | 30.00 | PASS |

| 802.11b Ch0 | | | | | |
|-------------|-------------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 18.77 | 30.00 | PASS |
| 6 | 2437 | 1 | 18.91 | 30.00 | PASS |
| 11 | 2462 | 1 | 18.92 | 30.00 | PASS |

| 802.11g Ch0 | | | | | |
|-------------|-------------|-----------|-------------------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 24.11 | 30.00 | PASS |
| 2 | 2417 | 6 | 25.59 | 30.00 | PASS |
| 6 | 2437 | 6 | 25.42 | 30.00 | PASS |
| 10 | 2457 | 6 | 25.41 | 30.00 | PASS |
| 11 | 2462 | 6 | 23.66 | 30.00 | PASS |

| 802.11g Ch0 | | | | | |
|-------------|-------------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 14.45 | 30.00 | PASS |
| 2 | 2417 | 6 | 16.98 | 30.00 | PASS |
| 6 | 2437 | 6 | 16.98 | 30.00 | PASS |
| 10 | 2457 | 6 | 16.90 | 30.00 | PASS |
| 11 | 2462 | 6 | 13.94 | 30.00 | PASS |

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| 802.11n_HT20M Ch0 | | | | | |
|-------------------|-------------|-----------|--|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Peak Output Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 22.86 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 25.32 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 24.70 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 25.37 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 22.84 | 30.00 | PASS |
| 802.11n_HT20M Ch0 | | | | | |
| CH | Freq. (MHz) | Data Rate | Max. Avg. Output include tune up tolerance Power (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 13.29 | 30.00 | PASS |
| 2 | 2417 | MCS0 | 16.98 | 30.00 | PASS |
| 6 | 2437 | MCS0 | 16.54 | 30.00 | PASS |
| 10 | 2457 | MCS0 | 16.96 | 30.00 | PASS |
| 11 | 2462 | MCS0 | 13.01 | 30.00 | PASS |

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

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EIRP

| 802.11b Ch0 | | | | | | | |
|-------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 1 | 18.77 | 4.00 | 22.77 | 36 | PASS |
| 6 | 2437 | 1 | 18.91 | 4.00 | 22.91 | 36 | PASS |
| 11 | 2462 | 1 | 18.92 | 4.00 | 22.92 | 36 | PASS |

| 802.11g Ch0 | | | | | | | |
|-------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | 6 | 14.45 | 4.00 | 18.45 | 36 | PASS |
| 2 | 2417 | 6 | 16.98 | 4.00 | 20.98 | 36 | PASS |
| 6 | 2437 | 6 | 16.98 | 4.00 | 20.98 | 36 | PASS |
| 10 | 2457 | 6 | 16.90 | 4.00 | 20.90 | 36 | PASS |
| 11 | 2462 | 6 | 13.94 | 4.00 | 17.94 | 36 | PASS |

| 802.11n_HT20M Ch0 | | | | | | | |
|-------------------|-------------|-----------|-------------------------|--------------------|------------|-------------|--------|
| CH | Freq. (MHz) | Data Rate | Avg. Output Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Limit (dBm) | RESULT |
| 1 | 2412 | MCS0 | 13.29 | 4.00 | 17.29 | 36 | PASS |
| 2 | 2417 | MCS0 | 16.98 | 4.00 | 20.98 | 36 | PASS |
| 6 | 2437 | MCS0 | 16.54 | 4.00 | 20.54 | 36 | PASS |
| 10 | 2457 | MCS0 | 16.96 | 4.00 | 20.96 | 36 | PASS |
| 11 | 2462 | MCS0 | 13.01 | 4.00 | 17.01 | 36 | PASS |

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9 6DB & 99% BANDWIDTH MEASUREMENT

9.1 Standard Applicable

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

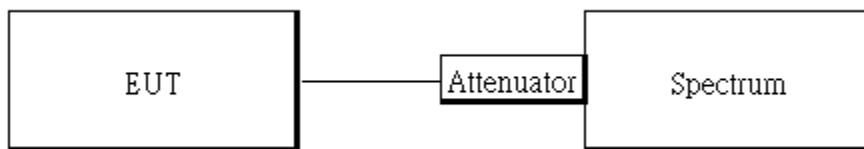
9.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR/BRAND | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| DC Power Supply | DHA | DPS-3003 | 9411005787 | 08/19/2020 | 08/18/2021 |
| Power Meter | Anritsu | ML2496A | 1326001 | 08/05/2020 | 08/04/2021 |
| Power Sensor | Anritsu | MA2411B | 1315048 | 08/05/2020 | 08/04/2021 |
| Power Sensor | Anritsu | MA2411B | 1315049 | 08/05/2020 | 08/04/2021 |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY59071574 | 06/24/2020 | 06/23/2021 |
| Attenuator | Woken | WATT-218FS-10 | RF03 | 11/19/2019 | 11/18/2020 |
| Attenuator | Marvelous | WATT-218FS-10 | RF23 | 11/19/2019 | 11/18/2020 |
| Coaxial Cables | Woken | 00100A1F1A185C | RF83 | 11/19/2019 | 11/18/2020 |

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown blow indicate those equipment of which has been subject to undertake the calibration in inter-mediate period of time of the measurement.

| EQUIPMENT TYPE | MFR/BRAND | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|----------------|-----------|----------------|---------------|------------|------------|
| Attenuator | Woken | WATT-218FS-10 | RF03 | 11/19/2020 | 11/18/2021 |
| Attenuator | Marvelous | WATT-218FS-10 | RF23 | 11/19/2020 | 11/18/2021 |
| Coaxial Cables | Woken | 00100A1F1A185C | RF83 | 11/19/2020 | 11/18/2021 |

9.3 Test Set-up



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9.4 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set the spectrum analyzer as
RBW= 100kHz ,
VBW = 3 X RBW,
Span= 2 to 5 times of the OBW,
Sweep=auto,
Detector = Peak, and Max hold for -6dB Bandwidth test.
5. Set the spectrum analyzer as
RBW= 1 % to 5% of 99% Bandwidth ,
VBW \geq 3 X RBW,
Span= large enough to capture all products of the modulation process,
Sweep=auto,
Detector = Peak, and Max hold for 99% Bandwidth test.
6. Turn on the 99% bandwidth function, max reading.
7. Repeat above procedures until all test default channel is completed

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9.5 6dB Bandwidth

802.11b Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|-----------------|-------------|--------|
| 2412 | 10120.00 | > 500 | PASS |
| 2437 | 10120.00 | > 500 | PASS |
| 2462 | 10130.00 | > 500 | PASS |

802.11g Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|-----------------|-------------|--------|
| 2412 | 16390.00 | > 500 | PASS |
| 2437 | 16370.00 | > 500 | PASS |
| 2462 | 16370.00 | > 500 | PASS |

802.11_n_HT20 Ch0

| Freq. (MHz) | 6dB BW (kHz) | Limit (kHz) | Result |
|-------------|-----------------|-------------|--------|
| 2412 | 17610.00 | > 500 | PASS |
| 2437 | 17620.00 | > 500 | PASS |
| 2462 | 17600.00 | > 500 | PASS |

**Refer to next page for plots*

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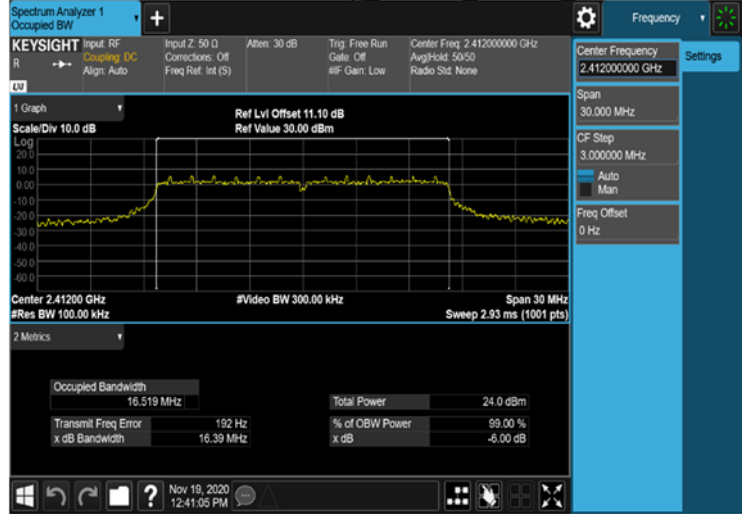
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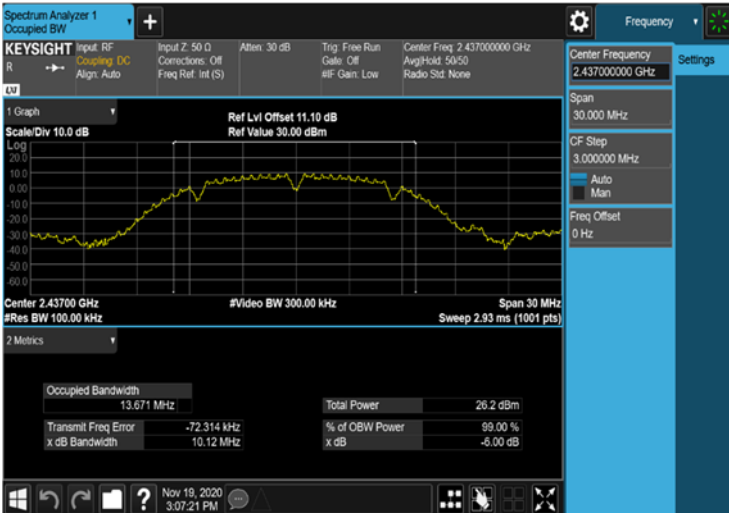
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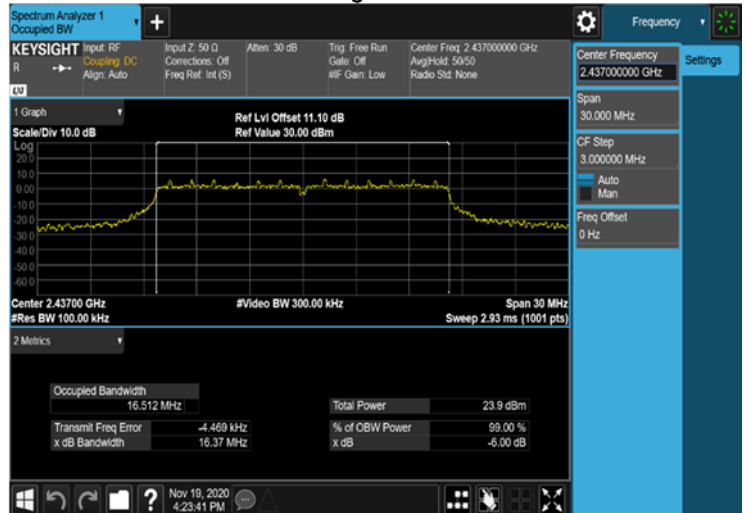
OBW 6dB\WLAN\802.11g_20MHz_Chain0_2412MHz



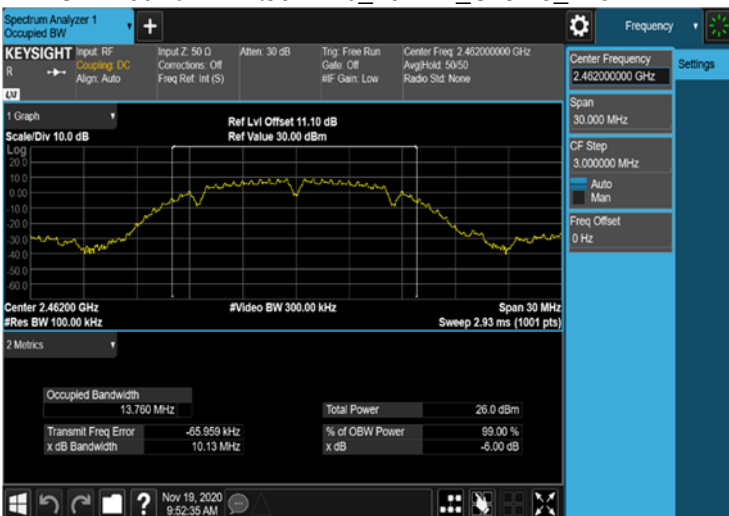
OBW 6dB\WLAN\802.11b_20MHz_Chain0_2437MHz



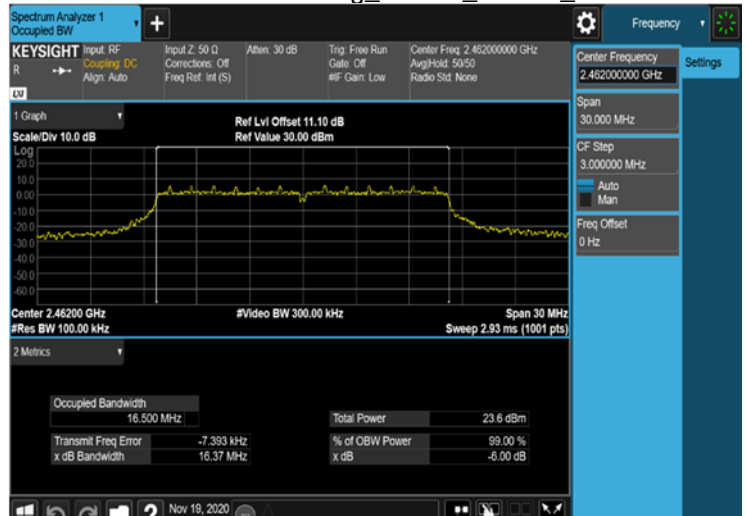
OBW 6dB\WLAN\802.11g_20MHz_Chain0_2437MHz



OBW 6dB\WLAN\802.11b_20MHz_Chain0_2462MHz



OBW 6dB\WLAN\802.11g_20MHz_Chain0_2462MHz

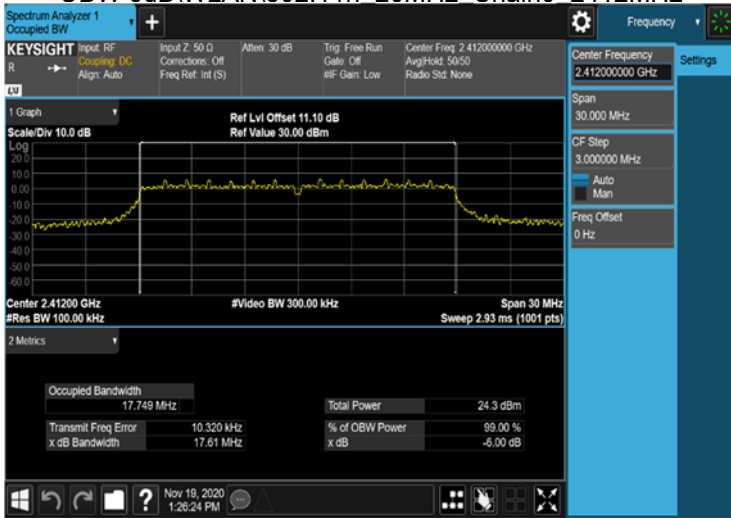


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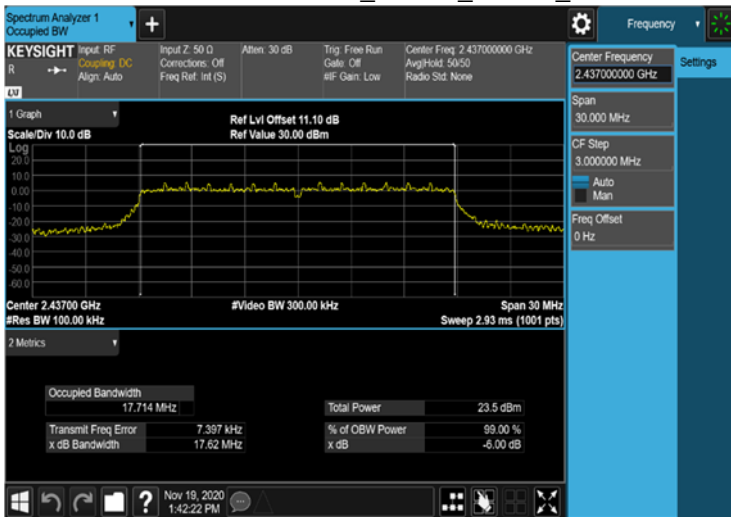
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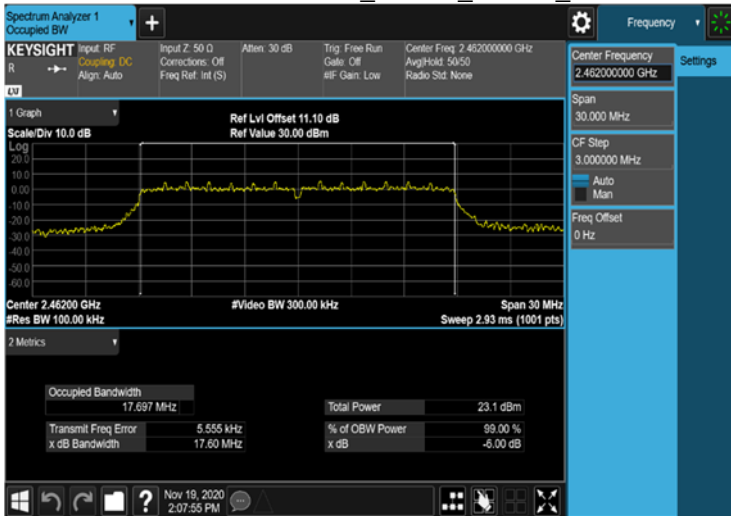
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OBW 6dBWLAN\802.11n_20MHz_Chain0_2437MHz



OBW 6dBWLAN\802.11n_20MHz_Chain0_2462MHz



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9.6 99% Bandwidth

| 802.11b Ch0 | |
|-------------|--------------|
| Freq. (MHz) | 99% BW (MHz) |
| 2412 | 13.677 |
| 2437 | 13.728 |
| 2462 | 13.794 |

| 802.11g Ch0 | |
|-------------|--------------|
| Freq. (MHz) | 99% BW (MHz) |
| 2412 | 17.039 |
| 2437 | 16.987 |
| 2462 | 16.966 |

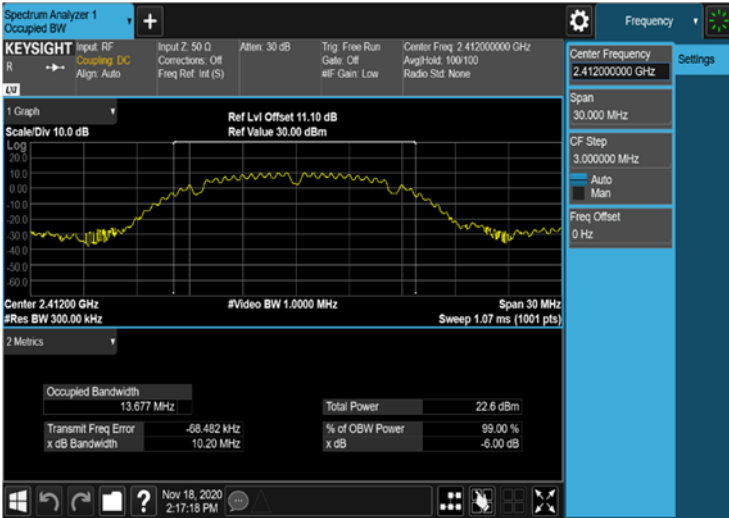
| 802.11n_HT20M Ch0 | |
|-------------------|--------------|
| Freq. (MHz) | 99% BW (MHz) |
| 2412 | 18.179 |
| 2437 | 18.087 |
| 2462 | 18.068 |

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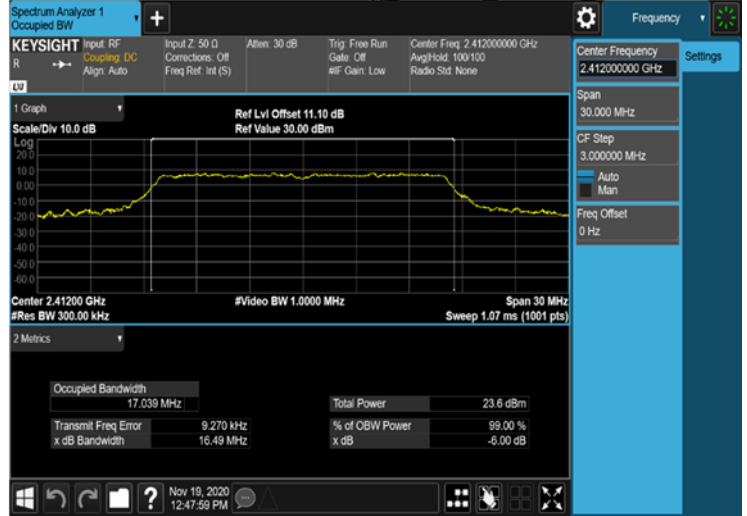
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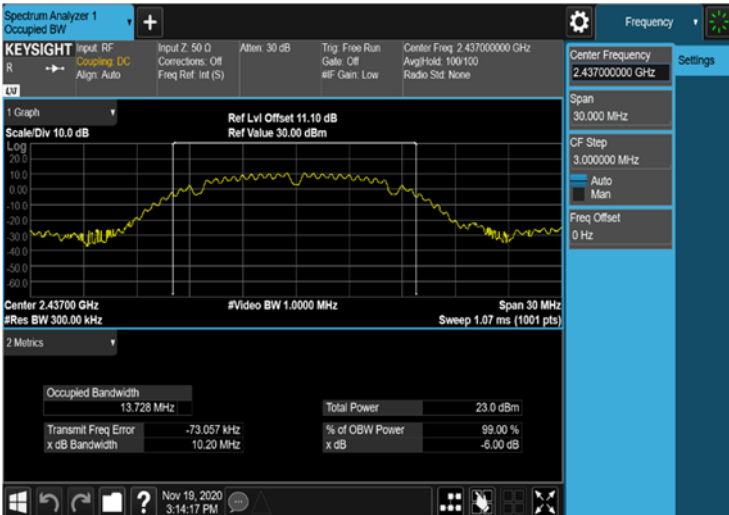
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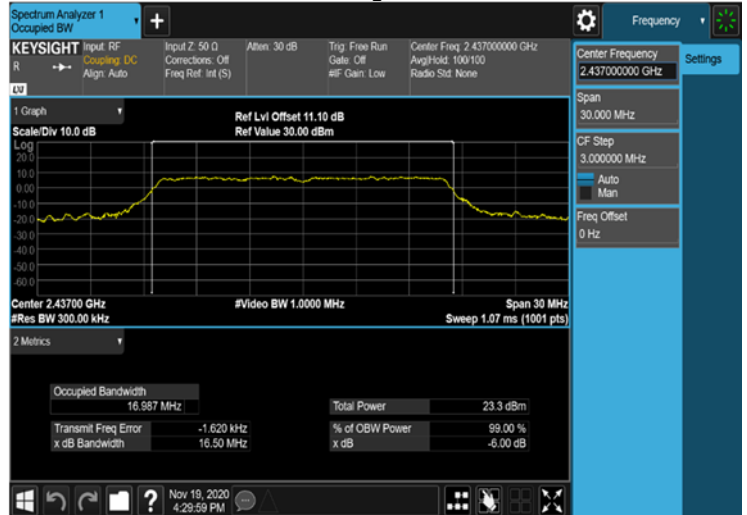
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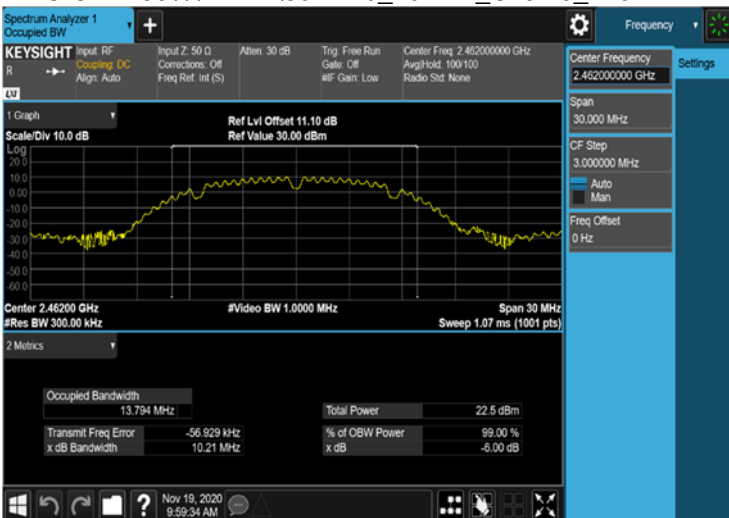
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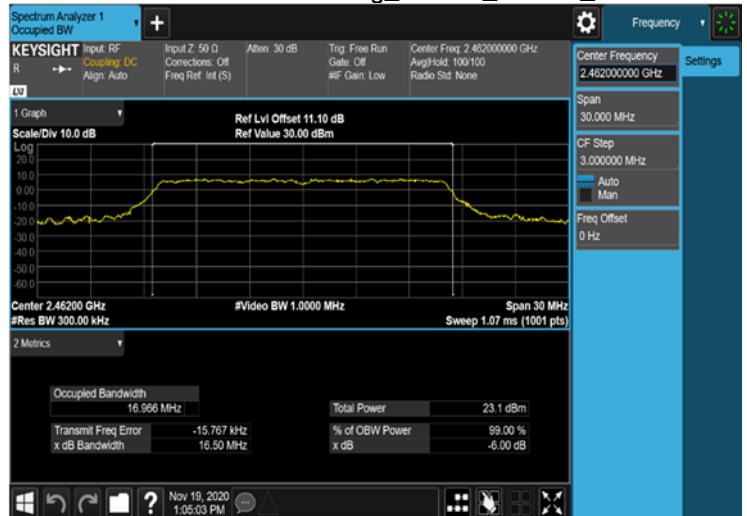
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IC OBW 99%\WLAN\802.11g_20MHz_Chain0_2462MHz

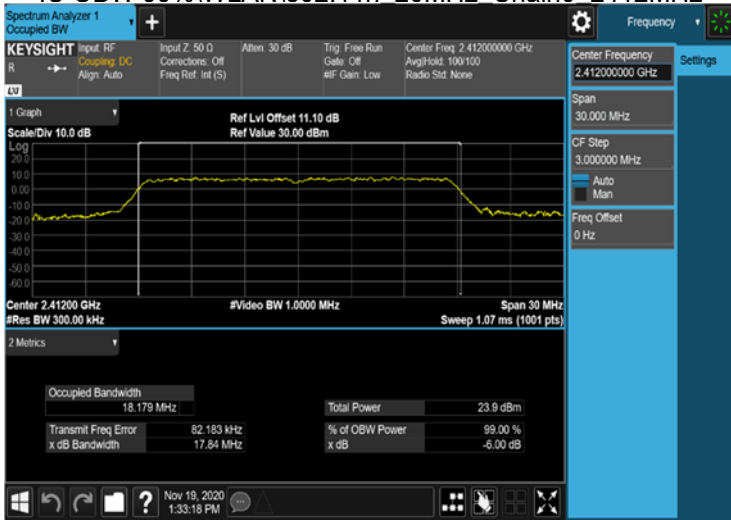


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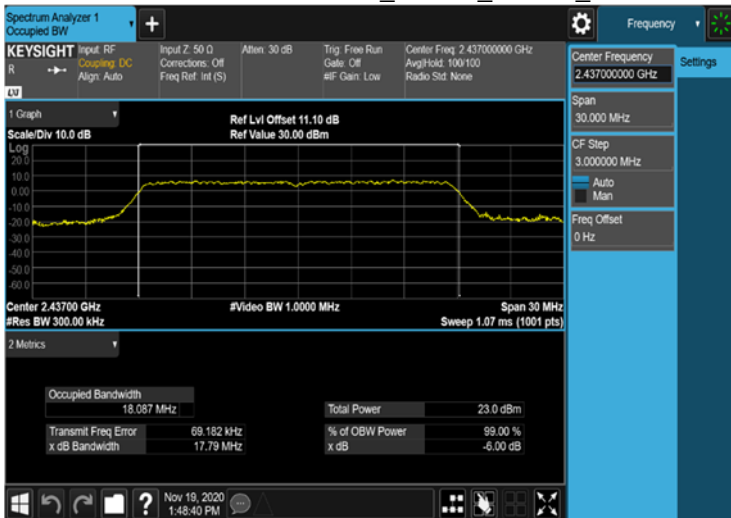
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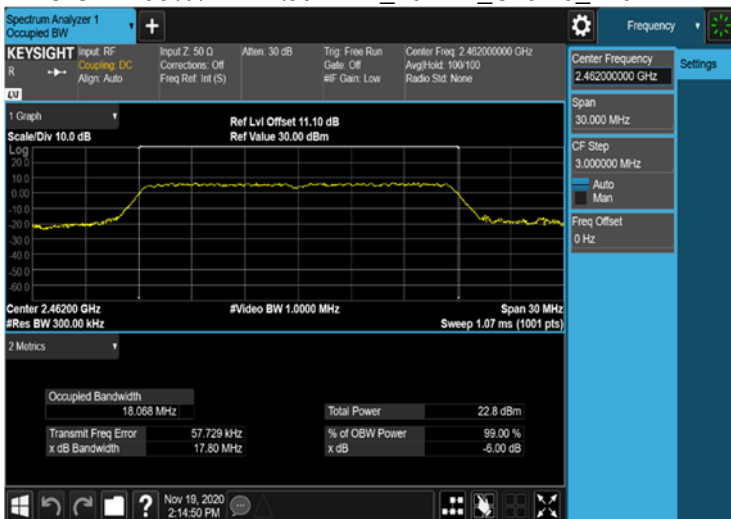
IC OBW 99%\WLAN\802.11n_20MHz_Chain0_2412MHz



IC OBW 99%\WLAN\802.11n_20MHz_Chain0_2437MHz



IC OBW 99%\WLAN\802.11n_20MHz_Chain0_2462MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a) & RSS-Gen §8.10, must also comply with the radiated emission limits specified in §15.209(a) & RSS-Gen §8.9.

10.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|----------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR/BRAND | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| DC Power Supply | DHA | DPS-3003 | 9411005787 | 08/19/2020 | 08/18/2021 |
| Power Meter | Anritsu | ML2496A | 1326001 | 08/05/2020 | 08/04/2021 |
| Power Sensor | Anritsu | MA2411B | 1315048 | 08/05/2020 | 08/04/2021 |
| Power Sensor | Anritsu | MA2411B | 1315049 | 08/05/2020 | 08/04/2021 |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY59071574 | 06/24/2020 | 06/23/2021 |
| Attenuator | Woken | WATT-218FS-10 | RF03 | 11/19/2019 | 11/18/2020 |
| Attenuator | Marvelous | WATT-218FS-10 | RF23 | 11/19/2019 | 11/18/2020 |
| Coaxial Cables | Woken | 00100A1F1A185C | RF83 | 11/19/2019 | 11/18/2020 |

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown blow indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

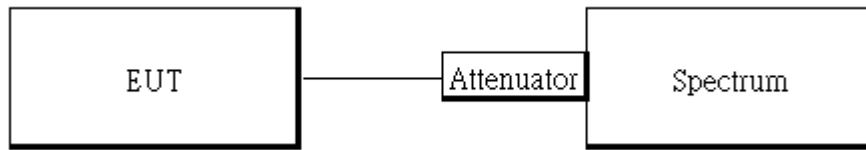
| EQUIPMENT TYPE | MFR/BRAND | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|----------------|-----------|----------------|---------------|------------|------------|
| Attenuator | Woken | WATT-218FS-10 | RF03 | 11/19/2020 | 11/18/2021 |
| Attenuator | Marvelous | WATT-218FS-10 | RF23 | 11/19/2020 | 11/18/2021 |
| Coaxial Cables | Woken | 00100A1F1A185C | RF83 | 11/19/2020 | 11/18/2021 |

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10.3 Test SET-UP



10.4 Measurement Procedure

Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.

Conducted Band Edge:

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

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Conducted Spurious Emission:

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

10.5 Measurement Result

| Reference Level of Limit 802.11b mode | | |
|---------------------------------------|-----------|--------------------------------|
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) |
| 2412 | 9.14 | -10.86 |
| 2437 | 9.12 | -10.88 |
| 2462 | 8.88 | -11.12 |

| Reference Level of Limit 802.11g mode | | |
|---------------------------------------|-----------|--------------------------------|
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) |
| 2412 | 6.09 | -13.91 |
| 2437 | 6.03 | -13.97 |
| 2462 | 5.85 | -14.15 |

| Reference Level of Limit 802.11n20 mode | | |
|---|-----------|--------------------------------|
| Freq. (MHz) | PSD (dBm) | Reference Level of Limit (dBm) |
| 2412 | 6.39 | -13.61 |
| 2437 | 5.07 | -14.93 |
| 2462 | 5.07 | -14.93 |

Note

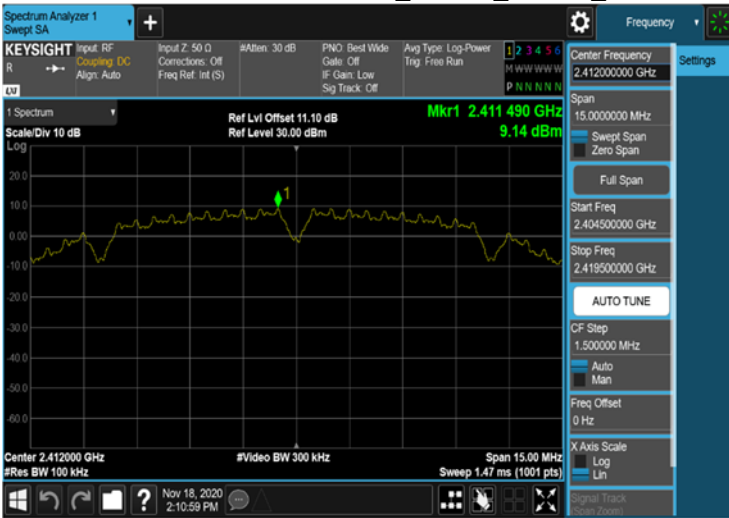
Cable Loss: 11.10 dB

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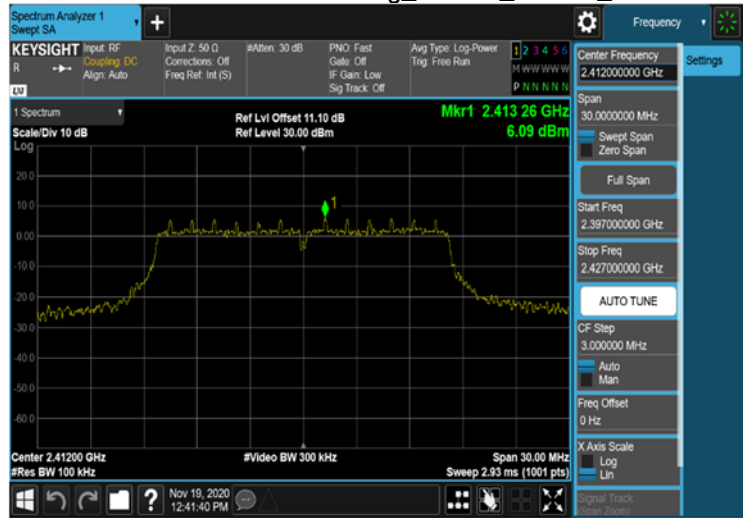
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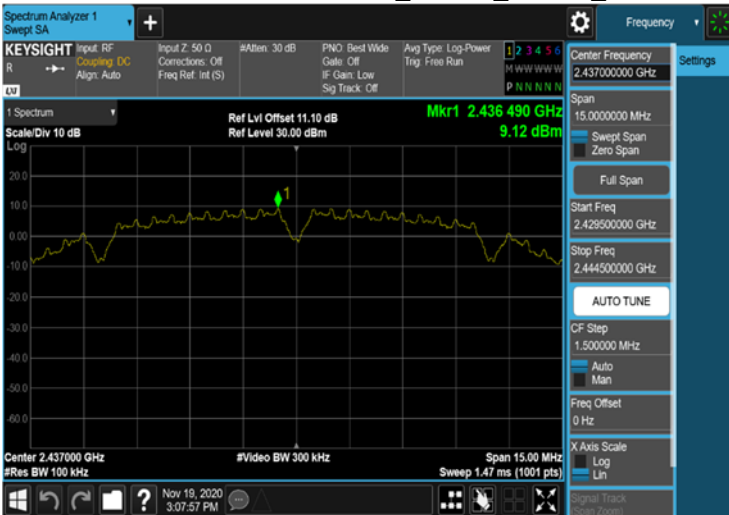
Reference Level\WLAN\802.11b_20MHz_Chain0_2412MHz



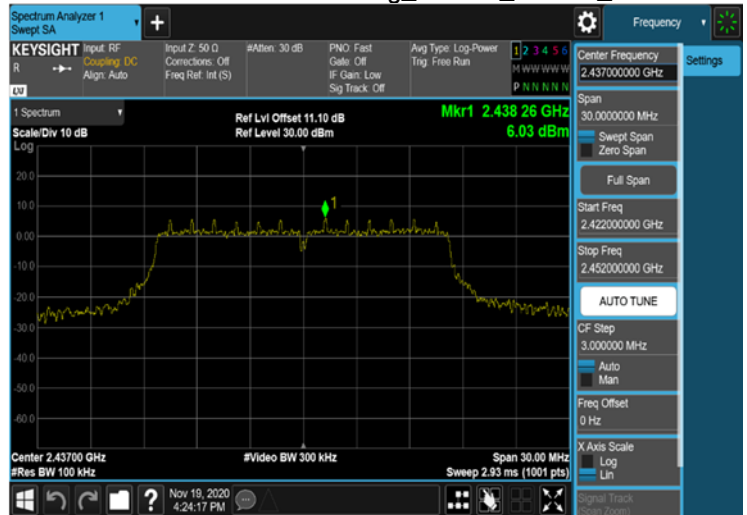
Reference Level\WLAN\802.11g_20MHz_Chain0_2412MHz



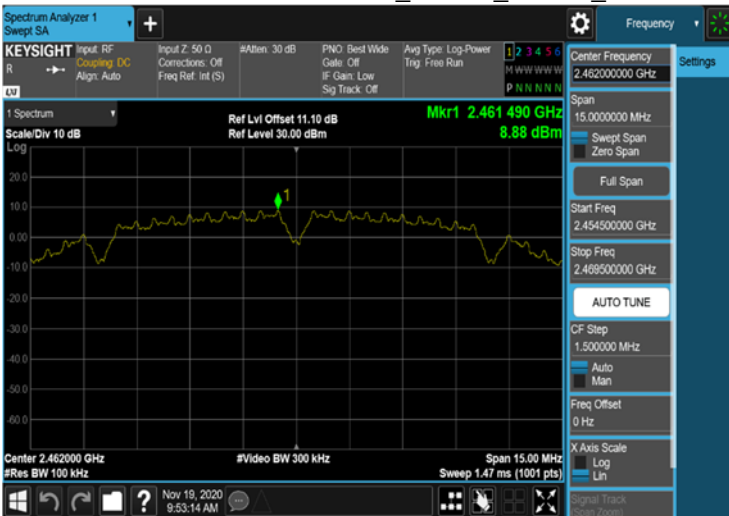
Reference Level\WLAN\802.11b_20MHz_Chain0_2437MHz



Reference Level\WLAN\802.11g_20MHz_Chain0_2437MHz



Reference Level\WLAN\802.11b_20MHz_Chain0_2462MHz



Reference Level\WLAN\802.11g_20MHz_Chain0_2462MHz



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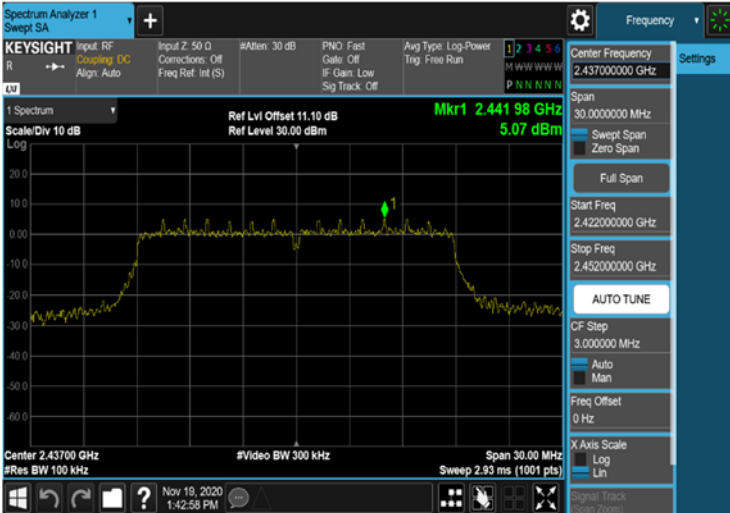
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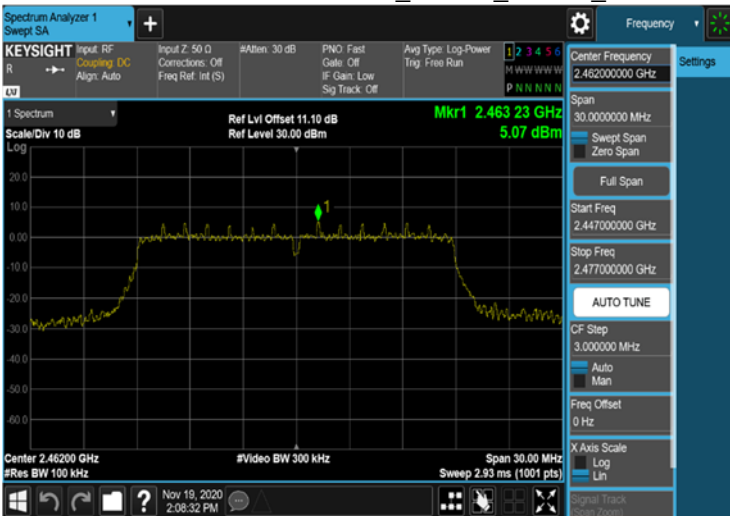
Reference Level\WLAN\802.11n_20MHz_Chain0_2412MHz



Reference Level\WLAN\802.11n_20MHz_Chain0_2437MHz



Reference Level\WLAN\802.11n_20MHz_Chain0_2462MHz



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Band EdgeWLAN\802.11b_20MHz_Chain0_2412MHz



Band EdgeWLAN\802.11g_20MHz_Chain0_2462MHz



Band EdgeWLAN\802.11b_20MHz_Chain0_2462MHz



Band EdgeWLAN\802.11n_20MHz_Chain0_2412MHz



Band EdgeWLAN\802.11g_20MHz_Chain0_2412MHz



Band EdgeWLAN\802.11n_20MHz_Chain0_2462MHz

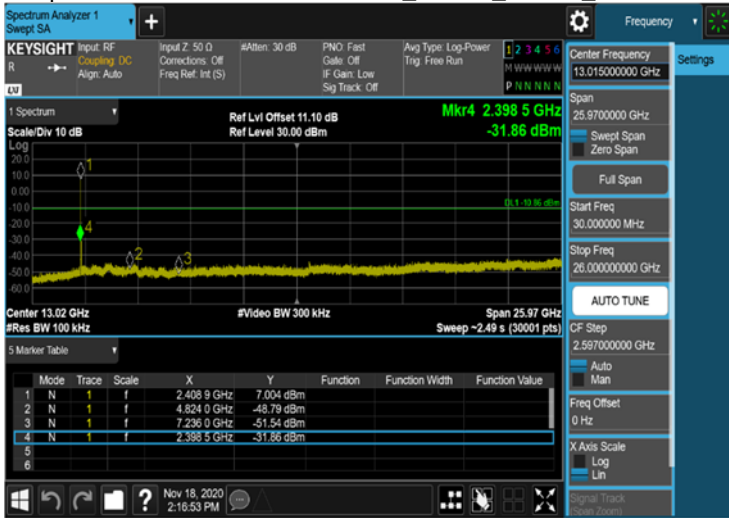


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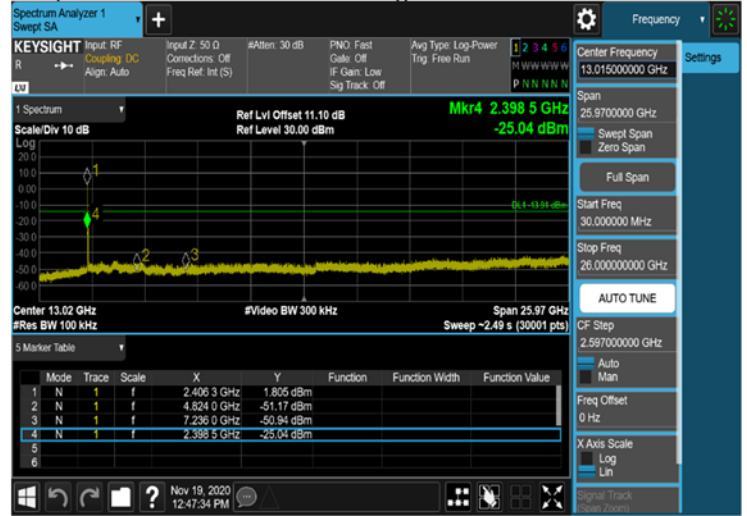
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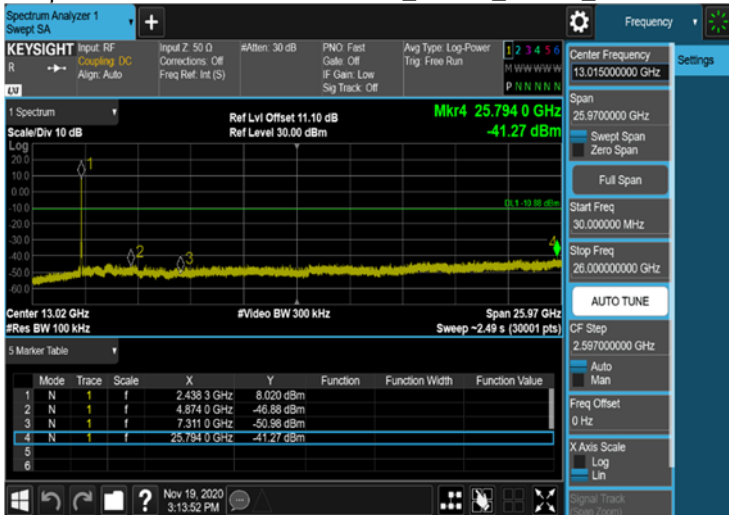
Spurious Emission\WLAN\802.11b_20MHz_Chain0_2412MHz



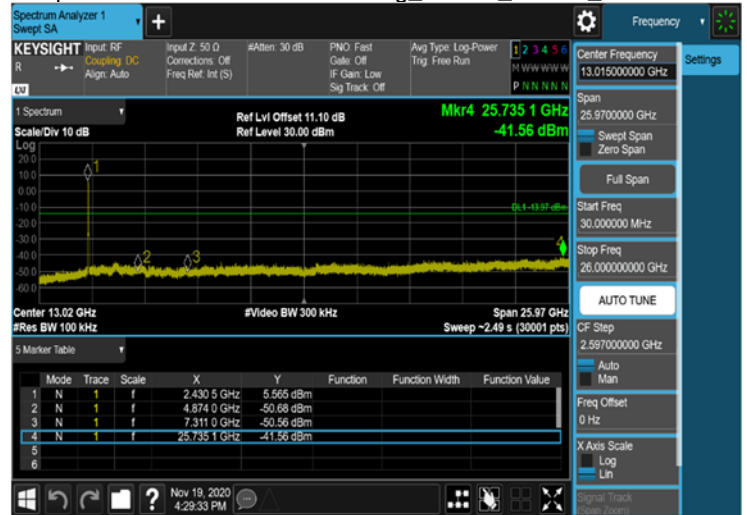
Spurious Emission\WLAN\802.11g_20MHz_Chain0_2412MHz



Spurious Emission\WLAN\802.11b_20MHz_Chain0_2437MHz



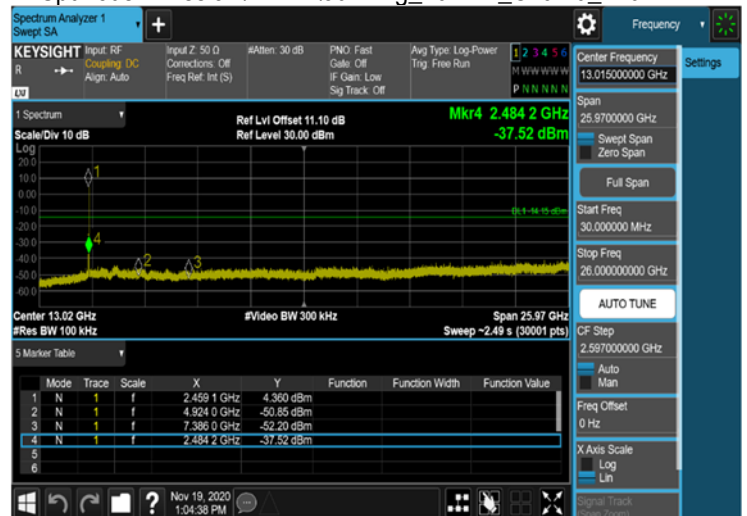
Spurious Emission\WLAN\802.11g_20MHz_Chain0_2437MHz



Spurious Emission\WLAN\802.11b_20MHz_Chain0_2462MHz



Spurious Emission\WLAN\802.11g_20MHz_Chain0_2462MHz

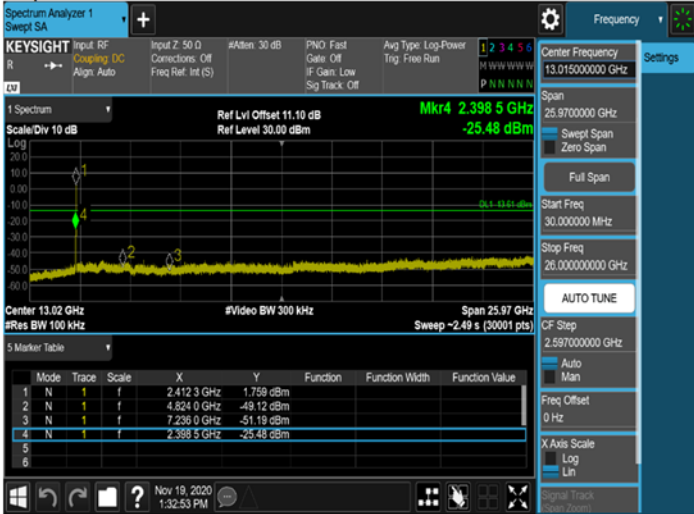


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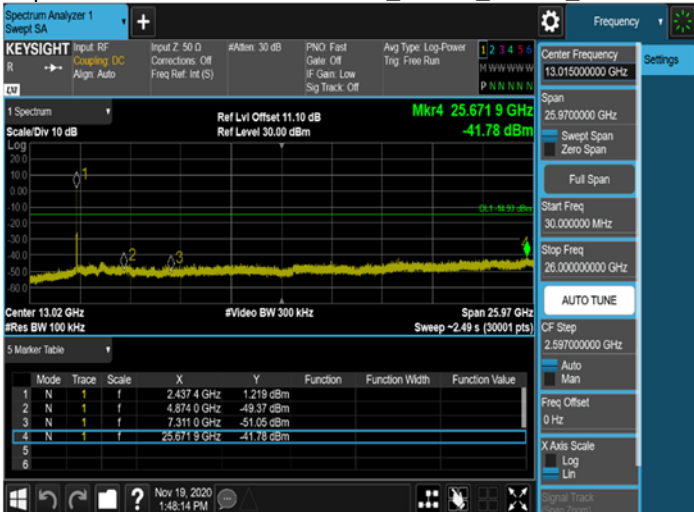
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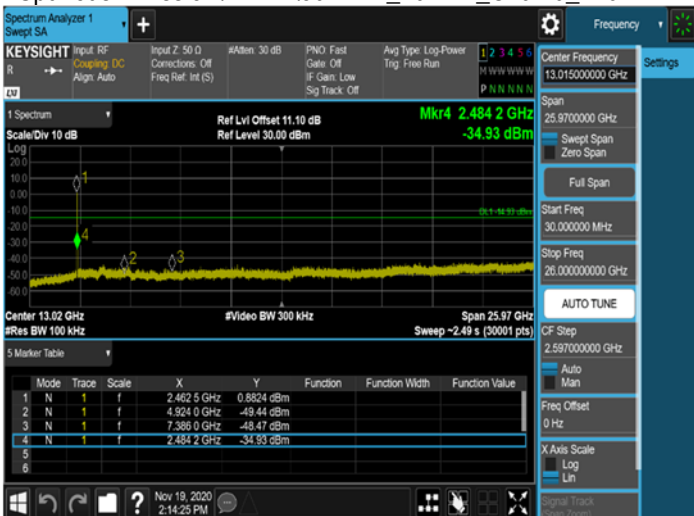
Spurious EmissionWLAN\802.11n_20MHz_Chain0_2412MHz



Spurious EmissionWLAN\802.11n_20MHz_Chain0_2437MHz



Spurious EmissionWLAN\802.11n_20MHz_Chain0_2462MHz



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11 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

11.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 and RSS-Gen §8.9 Table 5 and 6 limit as below. And according to §15.33(a) (1) & RSS-Gen §6.13.2.a, 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 (μV/m)

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11.2 Measurement Equipment Used:

| 966 Chamber | | | | | |
|-------------------|-----------------|---------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR/BRAND | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Broadband Antenna | TESEQ | CBL 6112D | 35240 | 09/08/2020 | 09/07/2021 |
| Horn Antenna | Schwarzbeck | BBHA9170 | 184 | 12/25/2019 | 12/24/2020 |
| Horn Antenna | Schwarzbeck | BBHA9120D | 1187 | 01/10/2020 | 01/09/2021 |
| Loop Antenna | ETS.LINDGREN | 6502 | 143303 | 04/28/2020 | 04/27/2021 |
| EMI Test Receiver | R&S | ESU 40 | 100363 | 04/29/2020 | 04/28/2021 |
| Pre-Amplifier | EMC Instruments | EMC330 | 980096 | 11/20/2019 | 11/19/2020 |
| Pre-Amplifier | EMC Instruments | EMC0011830 | 980199 | 11/20/2019 | 11/19/2020 |
| Pre-Amplifier | EMC Instruments | EMC184045B | 980135 | 11/20/2019 | 11/19/2020 |
| Attenuator | Woken | WATT-218FS-10 | RF25 | 11/20/2019 | 11/19/2020 |
| Highpass Filter | Micro Tronics | BRM50701-01 | G008 | 11/20/2019 | 11/19/2020 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 104 | MY17388/4 | 11/20/2019 | 11/19/2020 |
| Coaxial Cable | Huber Suhner | RG 214/U | W22.03 | 11/20/2019 | 11/19/2020 |
| DC Power Supply | DHA | DPS-3003 | 9411005787 | 08/19/2020 | 08/18/2021 |

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown blow indicate those equipment of which has been subject to undertake the calibration in inter-mediate period of time of the measurement.

| EQUIPMENT TYPE | MFR/BRAND | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|-----------------------|-----------------|---------------|---------------|------------|------------|
| Pre-Amplifier | EMC Instruments | EMC330 | 980096 | 11/19/2020 | 11/18/2021 |
| Pre-Amplifier | EMC Instruments | EMC0011830 | 980199 | 11/19/2020 | 11/18/2021 |
| Pre-Amplifier | EMC Instruments | EMC184045B | 980135 | 10/27/2020 | 10/26/2021 |
| Attenuator | Marvelous | WATT-218FS-10 | RF20 | 11/19/2020 | 11/18/2021 |
| Band Rejection Filter | Micro-Tronics | BRM50701-01 | RF201 | 11/19/2020 | 11/18/2021 |
| Coaxial Cable | Huber Suhner | SUCOFLEX 104 | MY17388/4 | 11/19/2020 | 11/18/2021 |
| Coaxial Cable | Huber Suhner | RG 214/U | W22.03 | 11/19/2020 | 11/18/2021 |

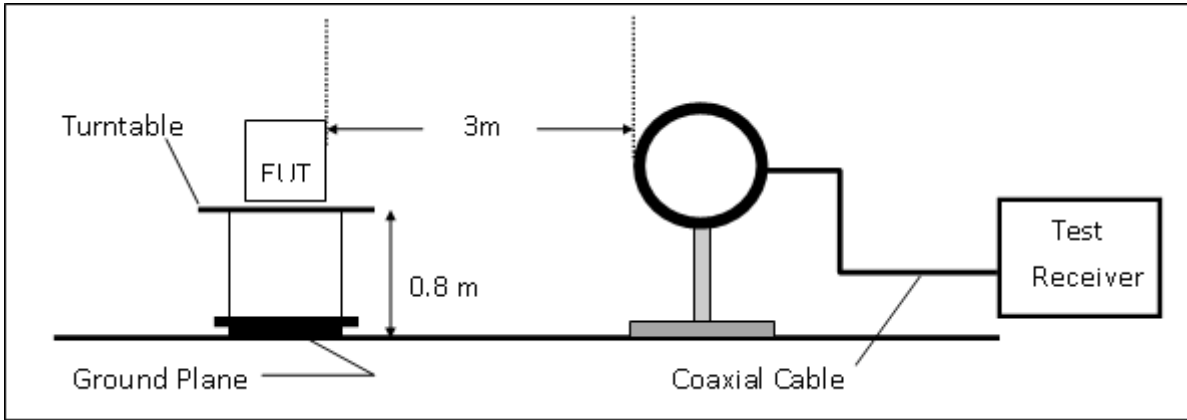
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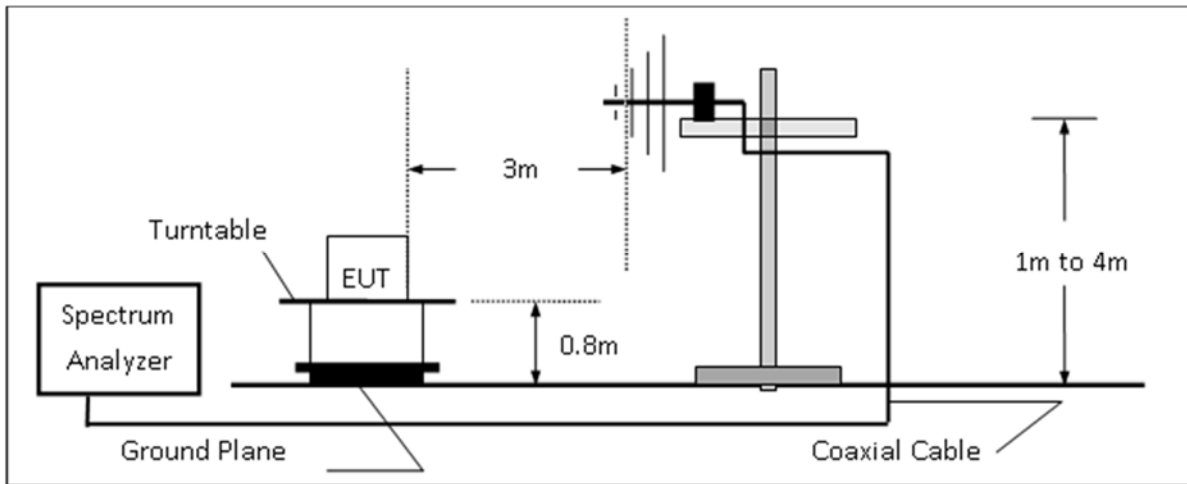
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11.3 Test SET-UP

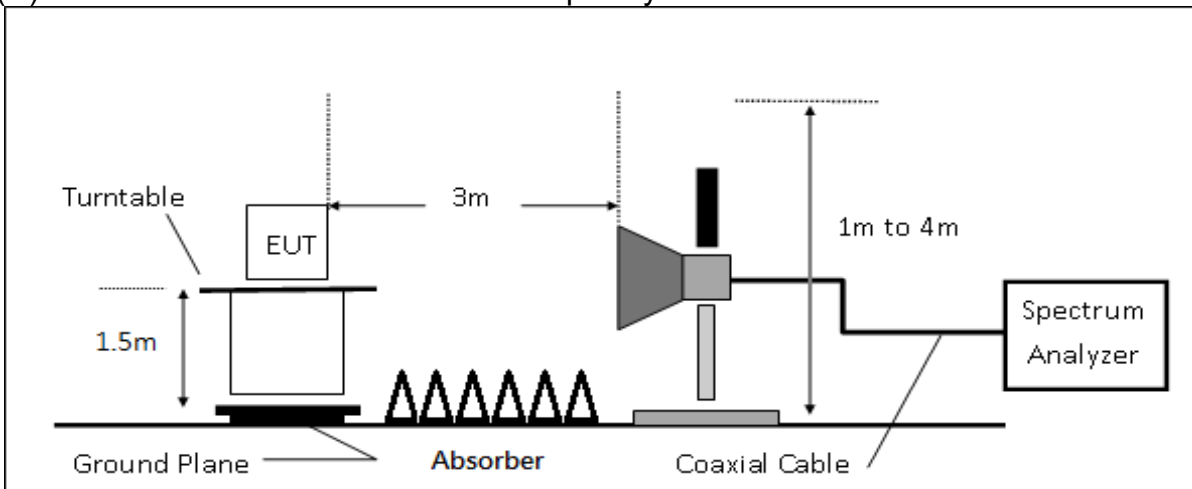
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

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11.5 Field Strength Calculation

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

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

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in dBuV/m, which converts $20 \cdot \log(uV/m)$

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

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

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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) & RSS-GEN §6.13.2 was not reported.

11.7 Measurement Result

Note:

1. Refer to next page spectrum analyzer data chart and tabular data sheets.
2. Measurements are completed at peak and average level, the mark of average is the highest emission in restricted bands

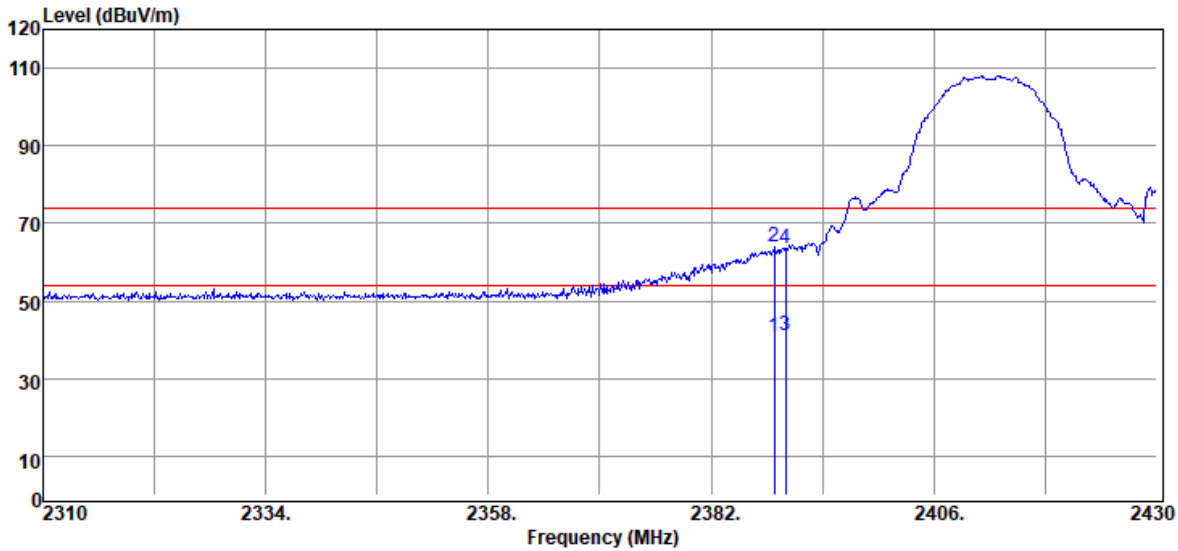
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11.7.1 Radiated Band Edge Measurement Result

| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :E2/2020/B0003 | Test Site | :966 Chamber C |
| Operation Mode | :802.11b | Test Date | :2020-11-19 |
| Test Frequency | :2412 MHz | Temp./Humi. | :22.8/66 |
| Test Mode | :BE CH LOW | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :E1 Plan | Engineer | :Ashton Chiu |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dBUV/m | Limit @3m dBUV/m | Margin dB |
|--------------|------------------|---|--------------|------------------------|------------------------|--------------|
| 2388.84 | Average | 36.95 | 3.77 | 40.72 | 54.00 | -13.28 |
| 2388.84 | Peak | 60.07 | 3.77 | 63.84 | 74.00 | -10.16 |
| 2390.00 | Average | 37.42 | 3.76 | 41.18 | 54.00 | -12.82 |
| 2390.00 | Peak | 59.71 | 3.76 | 63.47 | 74.00 | -10.53 |

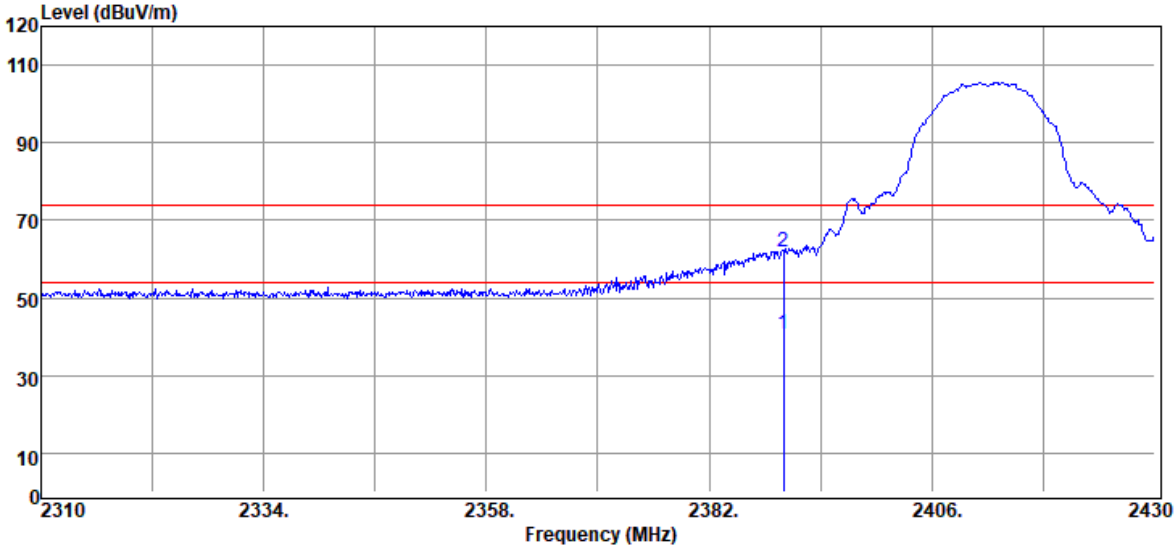
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Report Number :E2/2020/B0003
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.8/66
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2390.00 | Average | 37.05 | 3.76 | 40.81 | 54.00 | -13.19 |
| 2390.00 | Peak | 58.24 | 3.76 | 62.00 | 74.00 | -12.00 |

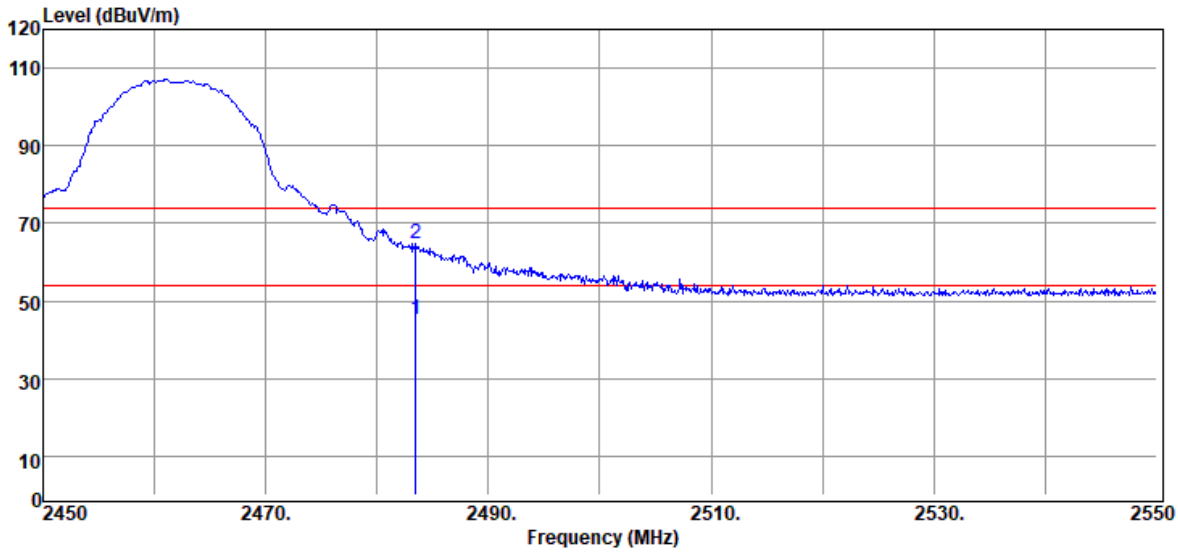
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Report Number :E2/2020/B0003
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.7/68
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



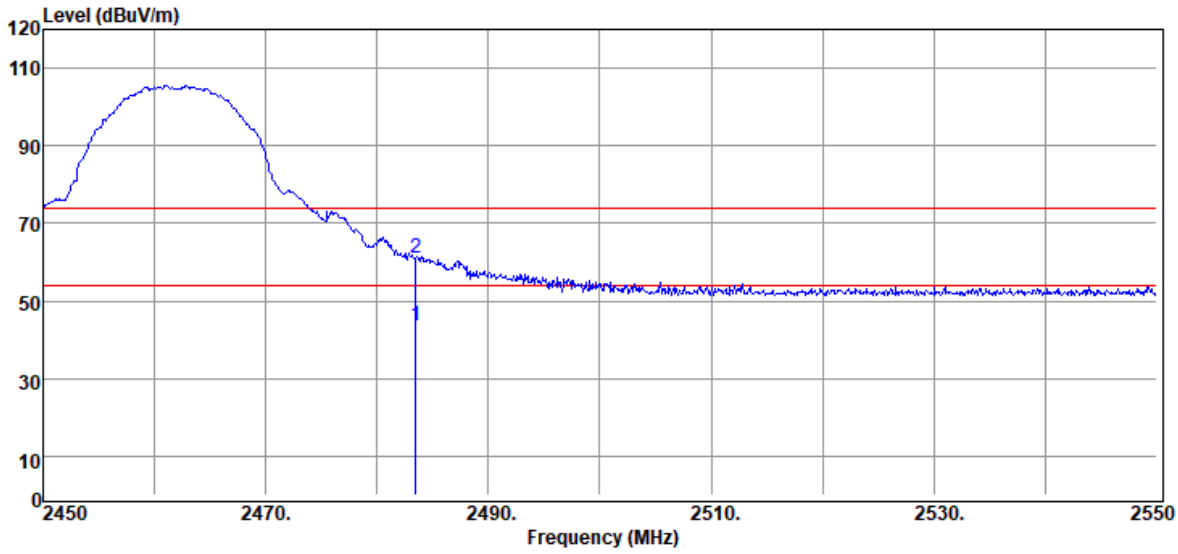
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 40.78 | 4.42 | 45.20 | 54.00 | -8.80 |
| 2483.50 | Peak | 60.28 | 4.42 | 64.70 | 74.00 | -9.30 |

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| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :E2/2020/B0003 | Test Site | :966 Chamber C |
| Operation Mode | :802.11b | Test Date | :2020-11-19 |
| Test Frequency | :2462 MHz | Temp./Humi. | :22.7/68 |
| Test Mode | :BE CH HIGH | Antenna Pol. | :VERTICAL |
| EUT Pol | :E1 Plan | Engineer | :Ashton Chiu |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 39.06 | 4.42 | 43.48 | 54.00 | -10.52 |
| 2483.50 | Peak | 56.80 | 4.42 | 61.22 | 74.00 | -12.78 |

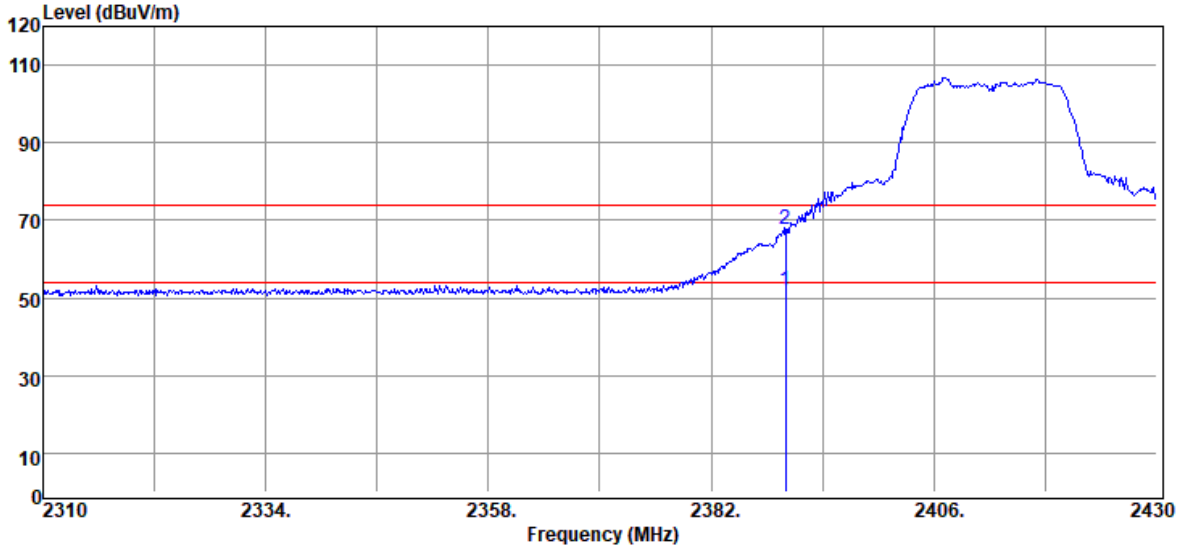
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :23.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2390.00 | Average | 48.34 | 3.76 | 52.10 | 54.00 | -1.90 |
| 2390.00 | Peak | 63.81 | 3.76 | 67.57 | 74.00 | -6.43 |

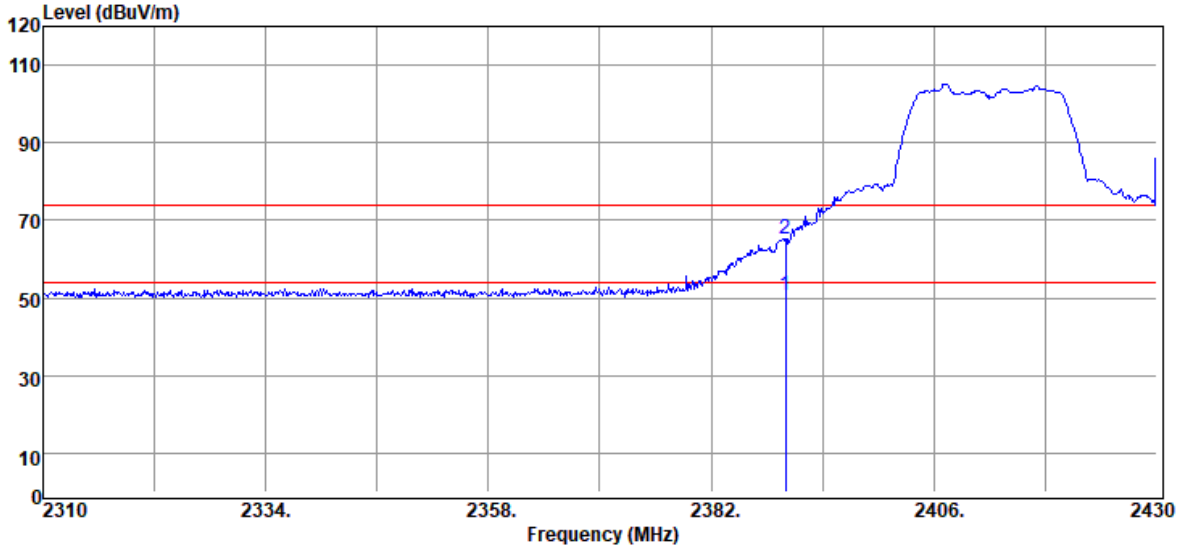
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :23.3/62
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2390.00 | Average | 46.69 | 3.76 | 50.45 | 54.00 | -3.55 |
| 2390.00 | Peak | 61.50 | 3.76 | 65.26 | 74.00 | -8.74 |

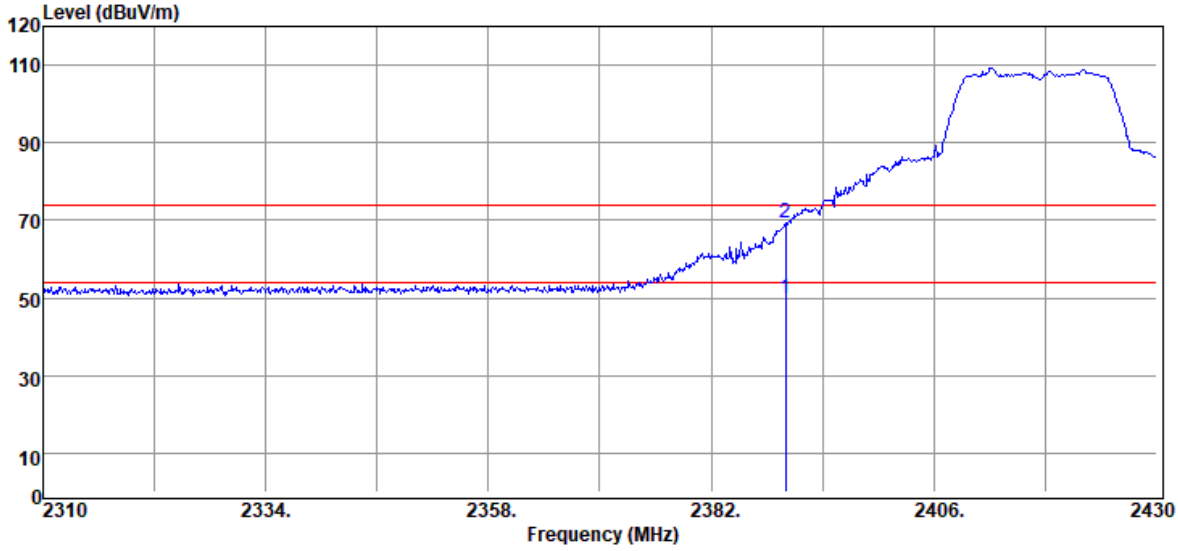
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :BE CH 2
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.5/66
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2390.00 | Average | 46.01 | 3.76 | 49.77 | 54.00 | -4.23 |
| 2390.00 | Peak | 65.49 | 3.76 | 69.25 | 74.00 | -4.75 |

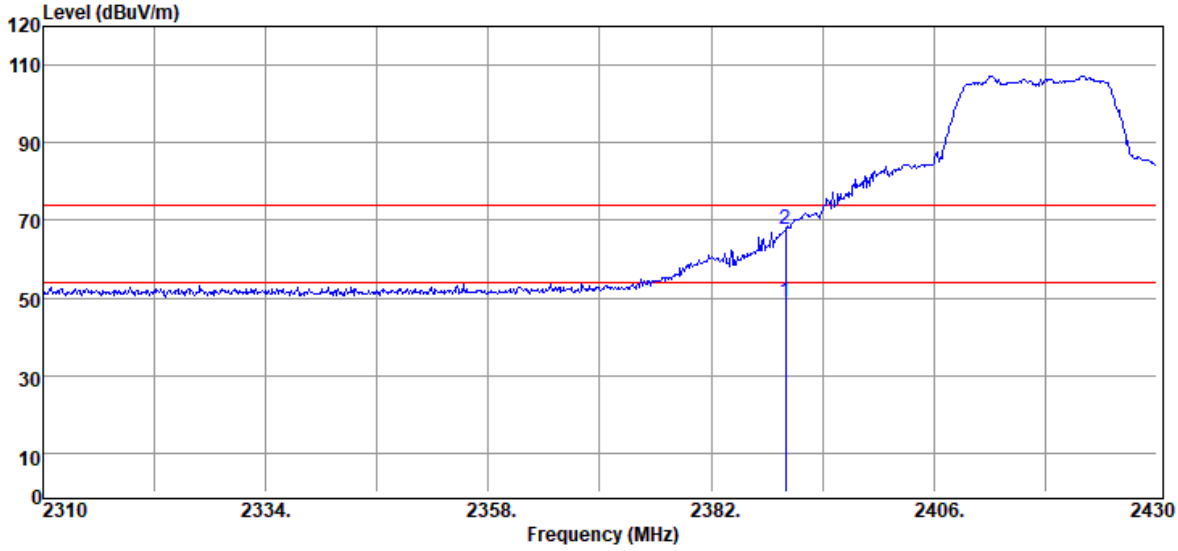
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2417 MHz
 Test Mode :BE CH 2
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.5/66
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2390.00 | Average | 45.19 | 3.76 | 48.95 | 54.00 | -5.05 |
| 2390.00 | Peak | 64.08 | 3.76 | 67.84 | 74.00 | -6.16 |

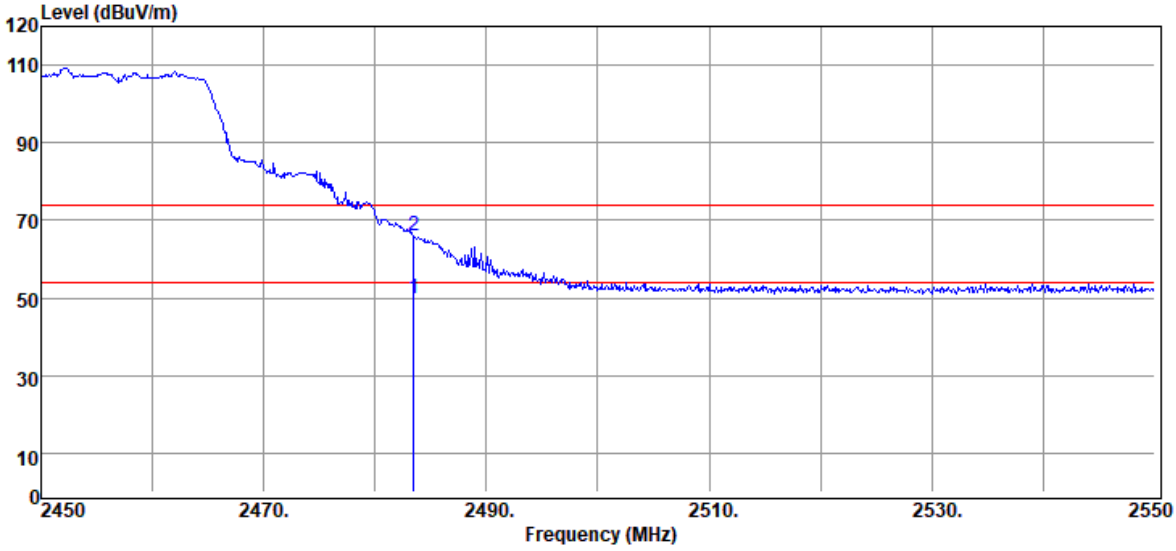
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.5/59
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



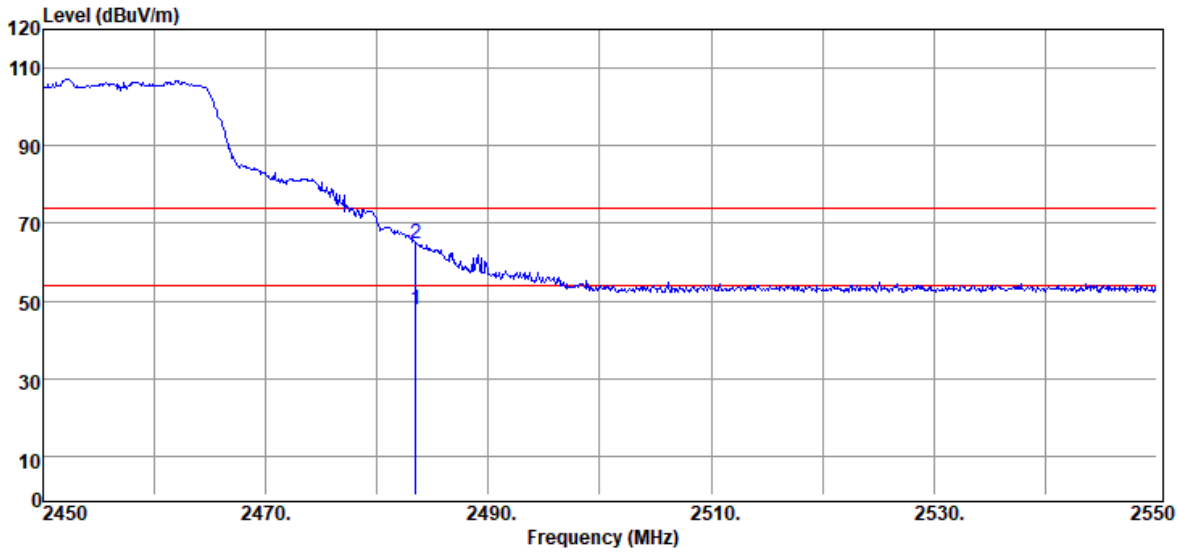
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 45.58 | 4.42 | 50.00 | 54.00 | -4.00 |
| 2483.50 | Peak | 61.47 | 4.42 | 65.89 | 74.00 | -8.11 |

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| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :E2/2020/B0003 | Test Site | :966 Chamber C |
| Operation Mode | :802.11g | Test Date | :2020-11-19 |
| Test Frequency | :2457 MHz | Temp./Humi. | :22.5/59 |
| Test Mode | :BE CH 10 | Antenna Pol. | :VERTICAL |
| EUT Pol | :E1 Plan | Engineer | :Ashton Chiu |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 43.16 | 4.42 | 47.58 | 54.00 | -6.42 |
| 2483.50 | Peak | 60.31 | 4.42 | 64.73 | 74.00 | -9.27 |

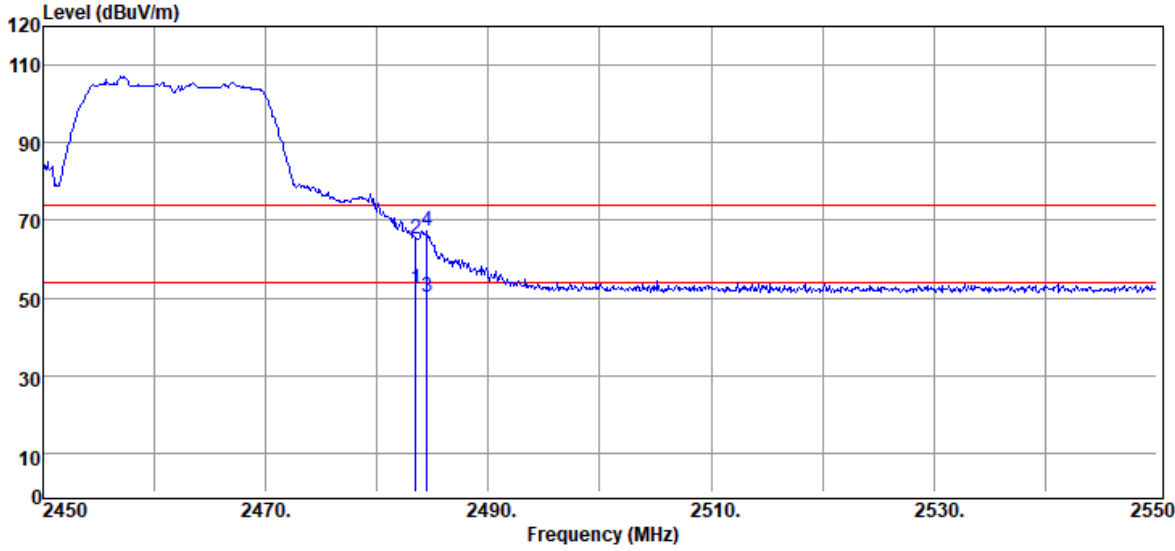
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.5/59
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 47.74 | 4.42 | 52.16 | 54.00 | -1.84 |
| 2483.50 | Peak | 60.89 | 4.42 | 65.31 | 74.00 | -8.69 |
| 2484.50 | Average | 45.74 | 4.45 | 50.19 | 54.00 | -3.81 |
| 2484.50 | Peak | 62.75 | 4.45 | 67.20 | 74.00 | -6.80 |

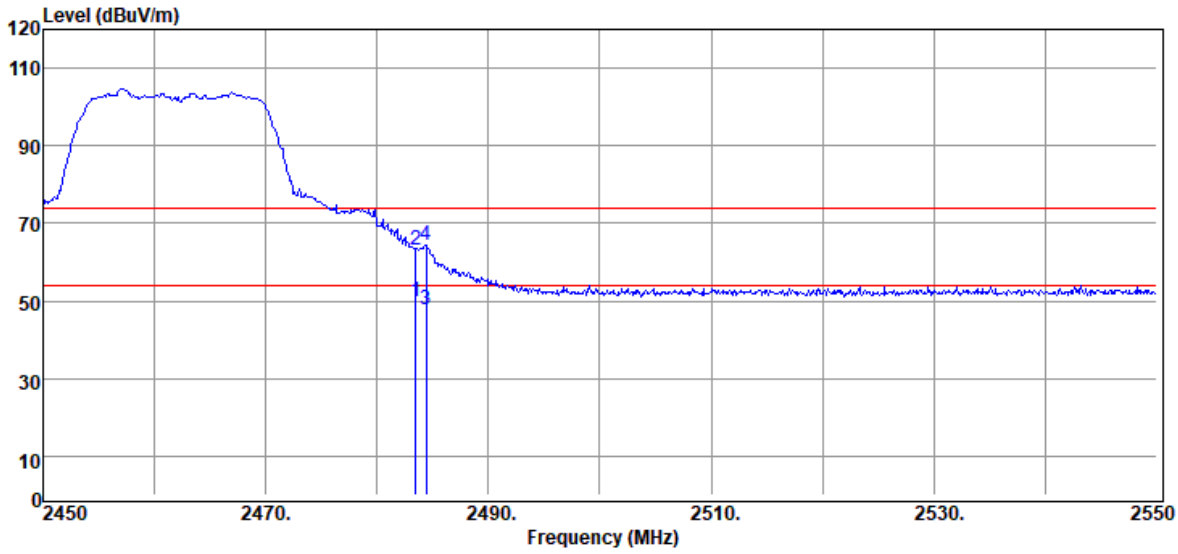
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.5/59
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 45.50 | 4.42 | 49.92 | 54.00 | -4.08 |
| 2483.50 | Peak | 58.63 | 4.42 | 63.05 | 74.00 | -10.95 |
| 2484.40 | Average | 43.16 | 4.45 | 47.61 | 54.00 | -6.39 |
| 2484.40 | Peak | 59.78 | 4.45 | 64.23 | 74.00 | -9.77 |

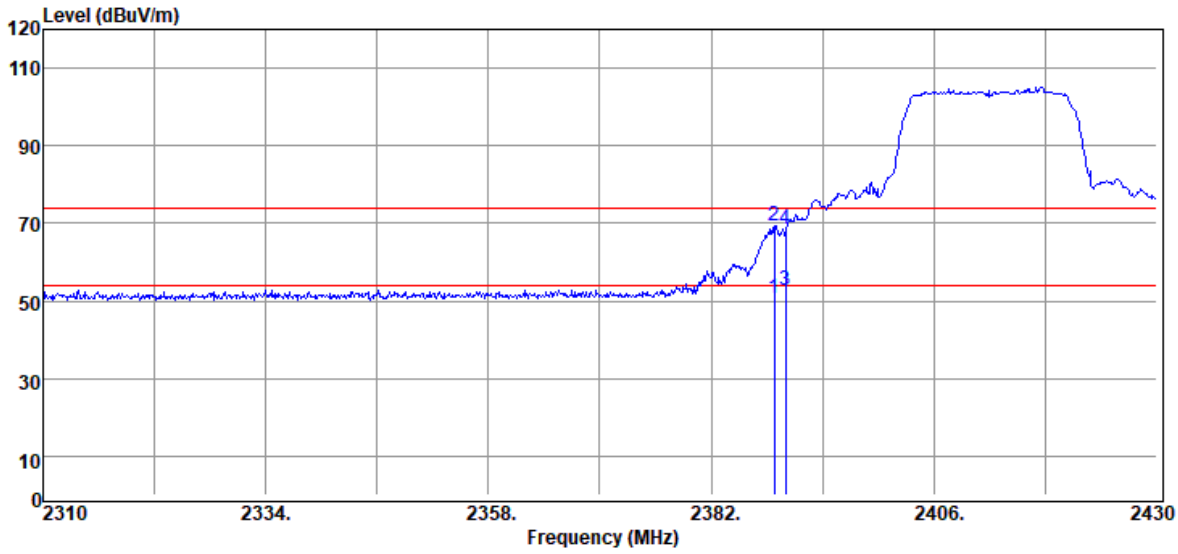
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.6/66
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2388.84 | Average | 46.94 | 3.77 | 50.71 | 54.00 | -3.29 |
| 2388.84 | Peak | 65.74 | 3.77 | 69.51 | 74.00 | -4.49 |
| 2390.00 | Average | 48.83 | 3.76 | 52.59 | 54.00 | -1.41 |
| 2390.00 | Peak | 64.56 | 3.76 | 68.32 | 74.00 | -5.68 |

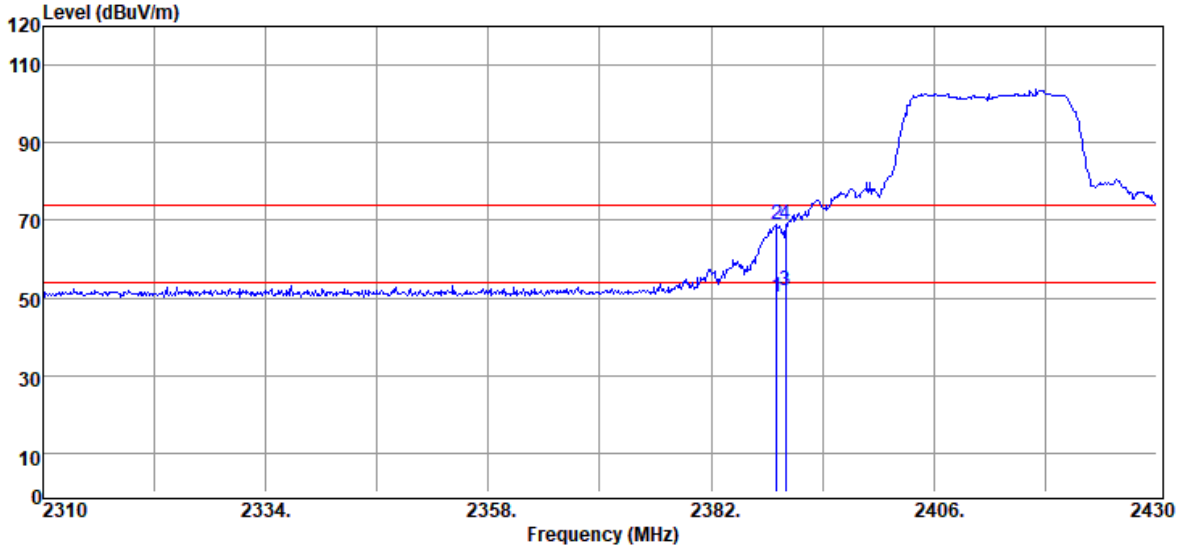
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :BE CH LOW
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.6/66
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



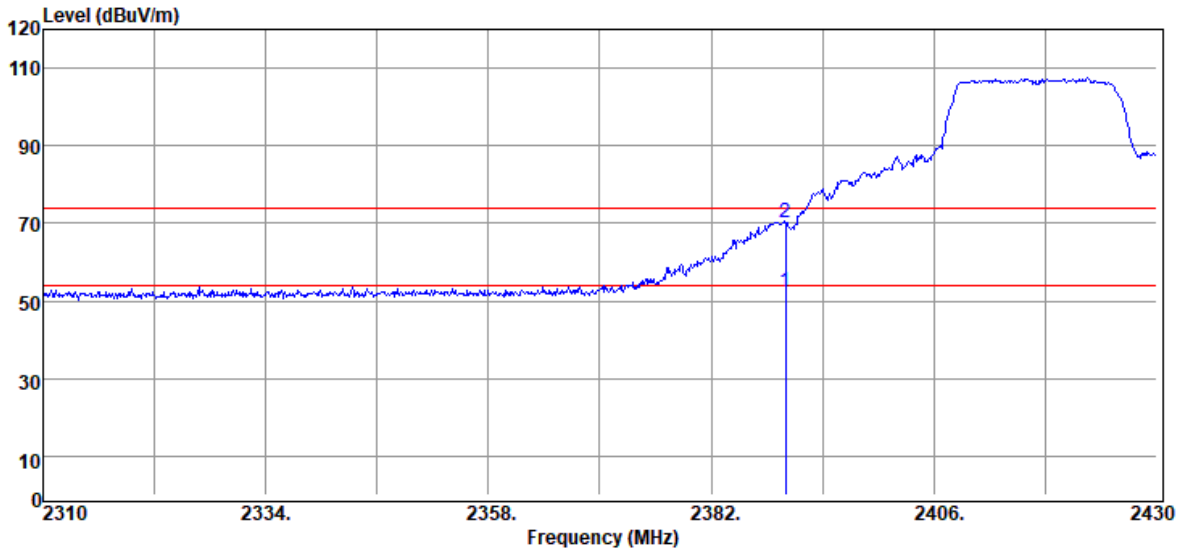
| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2389.08 | Average | 46.63 | 3.76 | 50.39 | 54.00 | -3.61 |
| 2389.08 | Peak | 65.19 | 3.76 | 68.95 | 74.00 | -5.05 |
| 2390.00 | Average | 48.14 | 3.76 | 51.90 | 54.00 | -2.10 |
| 2390.00 | Peak | 65.28 | 3.76 | 69.04 | 74.00 | -4.96 |

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| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :E2/2020/B0003 | Test Site | :966 Chamber C |
| Operation Mode | :802.11n20 | Test Date | :2020-11-19 |
| Test Frequency | :2417 MHz | Temp./Humi. | :22.1/61 |
| Test Mode | :BE CH 2 | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :E1 Plan | Engineer | :Ashton Chiu |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2390.00 | Average | 48.41 | 3.76 | 52.17 | 54.00 | -1.83 |
| 2390.00 | Peak | 66.50 | 3.76 | 70.26 | 74.00 | -3.74 |

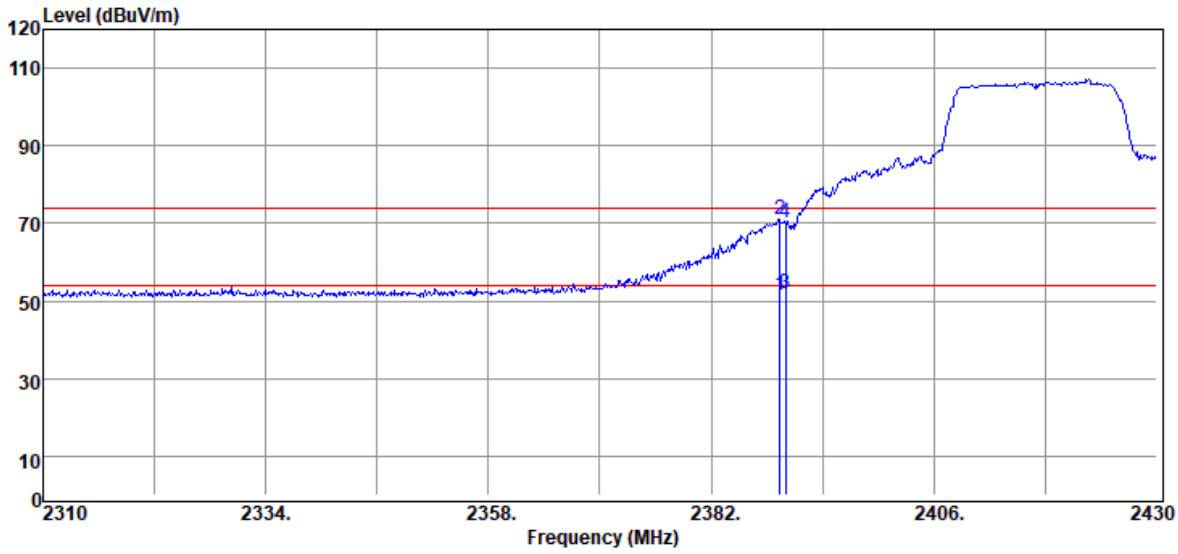
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2417 MHz
 Test Mode :BE CH 2
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.1/61
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2389.44 | Average | 47.56 | 3.76 | 51.32 | 54.00 | -2.68 |
| 2389.44 | Peak | 67.24 | 3.76 | 71.00 | 74.00 | -3.00 |
| 2390.00 | Average | 47.97 | 3.76 | 51.73 | 54.00 | -2.27 |
| 2390.00 | Peak | 66.34 | 3.76 | 70.10 | 74.00 | -3.90 |

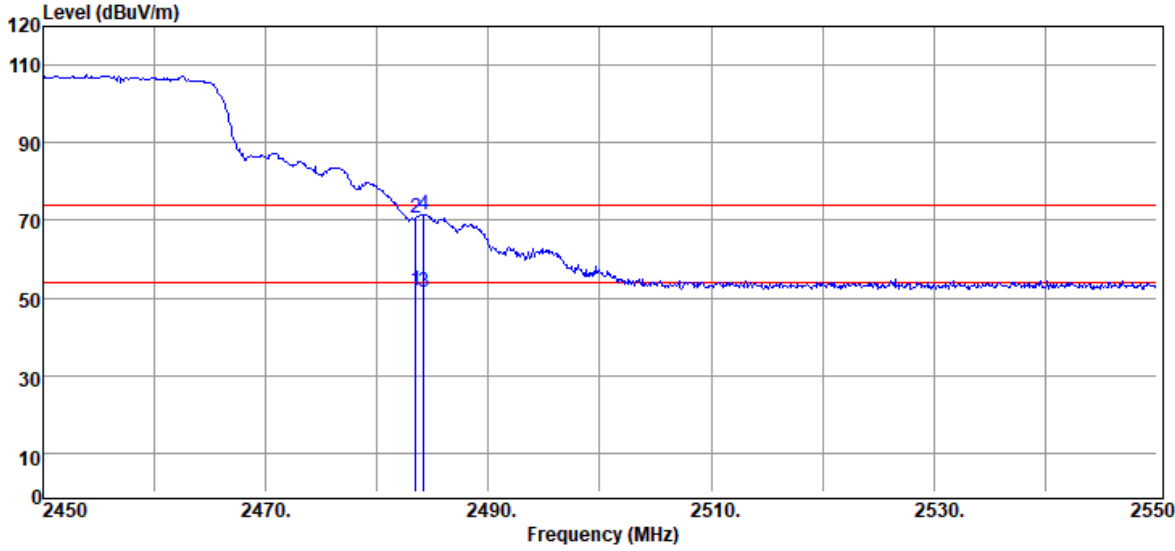
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.9/67
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level d μ V | Factor dB | Actual FS d μ V/m | Limit @3m d μ V/m | Margin dB |
|--------------|------------------------------|--|--------------|-----------------------------|-----------------------------|--------------|
| 2483.50 | Average | 47.46 | 4.42 | 51.88 | 54.00 | -2.12 |
| 2483.50 | Peak | 66.29 | 4.42 | 70.71 | 74.00 | -3.29 |
| 2484.20 | Average | 47.13 | 4.45 | 51.58 | 54.00 | -2.42 |
| 2484.20 | Peak | 67.16 | 4.45 | 71.61 | 74.00 | -2.39 |

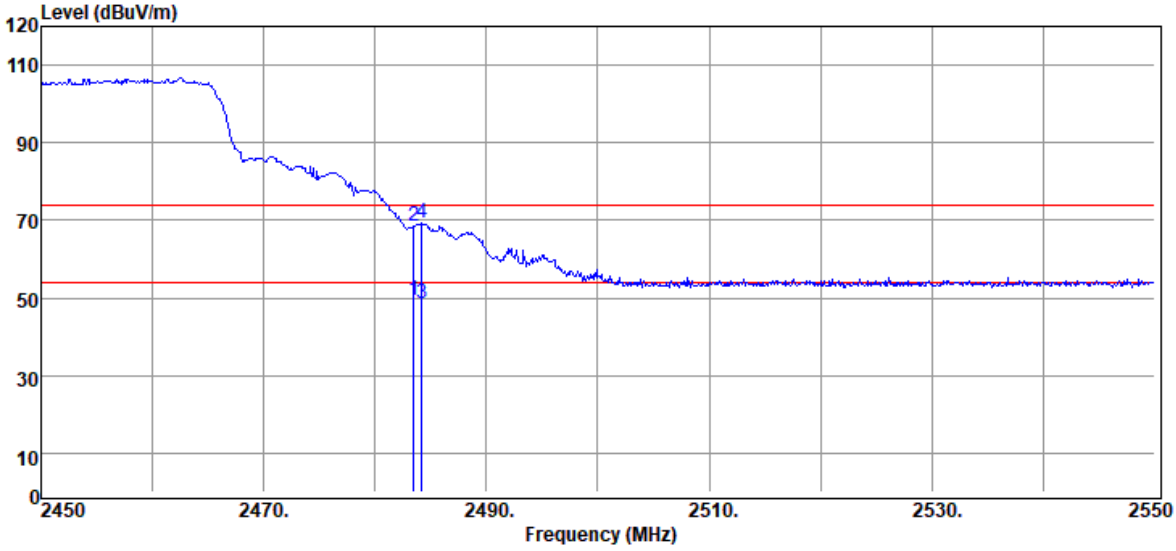
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2457 MHz
 Test Mode :BE CH 10
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.9/67
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 45.06 | 4.42 | 49.48 | 54.00 | -4.52 |
| 2483.50 | Peak | 64.07 | 4.42 | 68.49 | 74.00 | -5.51 |
| 2484.20 | Average | 43.93 | 4.45 | 48.38 | 54.00 | -5.62 |
| 2484.20 | Peak | 65.08 | 4.45 | 69.53 | 74.00 | -4.47 |

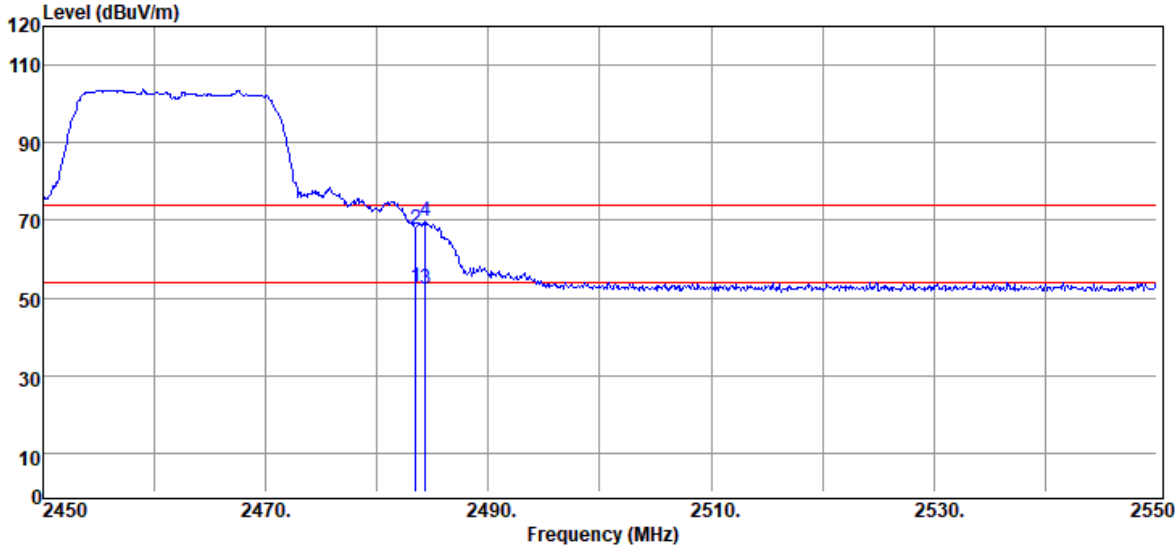
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.3/66
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 48.11 | 4.42 | 52.53 | 54.00 | -1.47 |
| 2483.50 | Peak | 63.17 | 4.42 | 67.59 | 74.00 | -6.41 |
| 2484.30 | Average | 47.96 | 4.45 | 52.41 | 54.00 | -1.59 |
| 2484.30 | Peak | 65.26 | 4.45 | 69.71 | 74.00 | -4.29 |

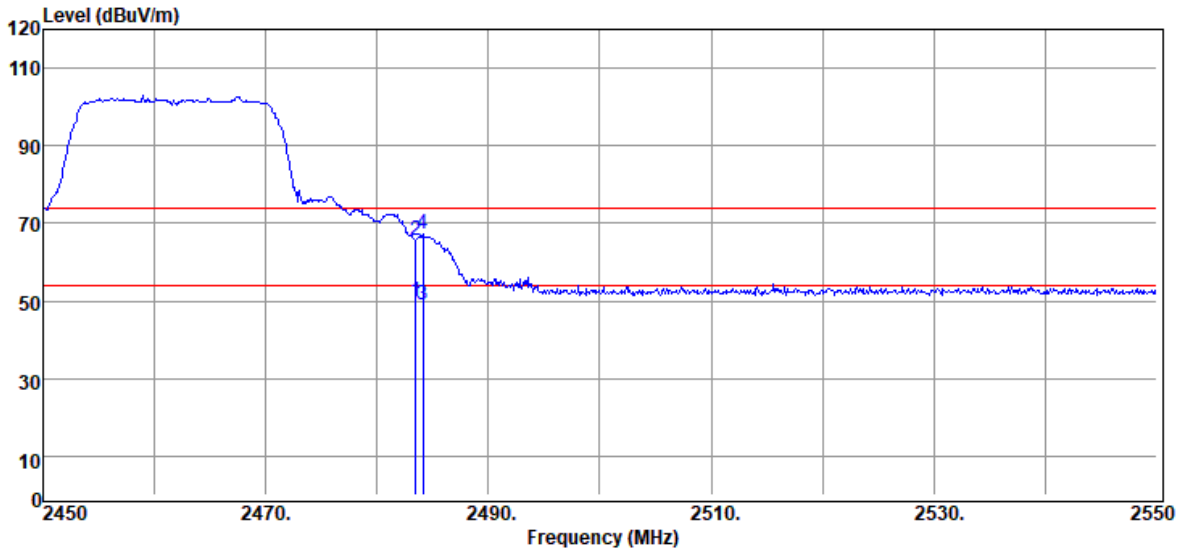
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :BE CH HIGH
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.3/66
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 2483.50 | Average | 45.61 | 4.42 | 50.03 | 54.00 | -3.97 |
| 2483.50 | Peak | 61.22 | 4.42 | 65.64 | 74.00 | -8.36 |
| 2484.10 | Average | 44.56 | 4.45 | 49.01 | 54.00 | -4.99 |
| 2484.10 | Peak | 62.99 | 4.45 | 67.44 | 74.00 | -6.56 |

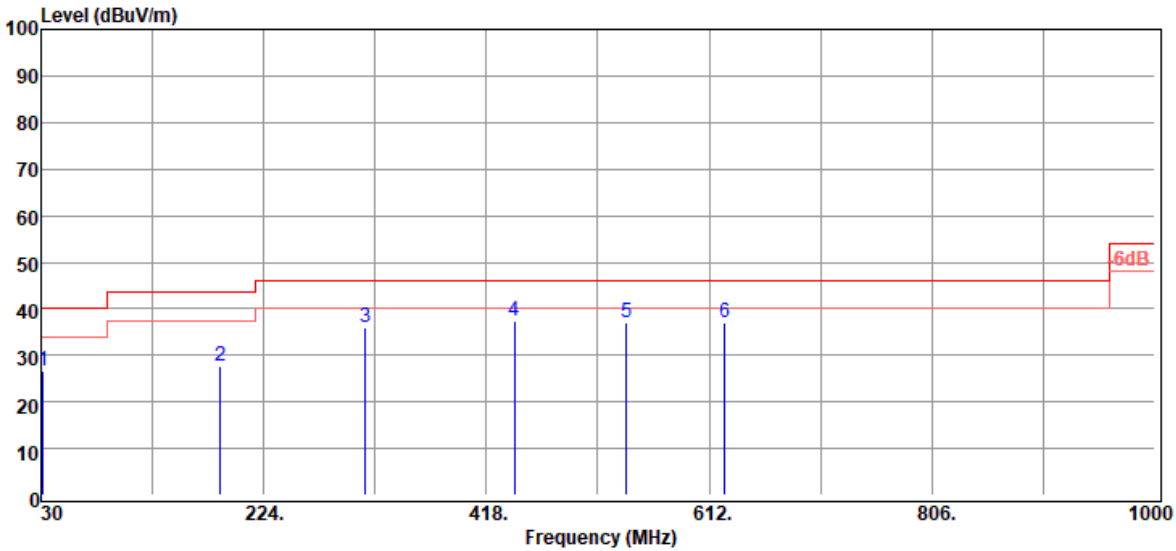
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11.7.2 Below 1GHz Worst-Case Emission:

| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :E2/2020/B0003 | Test Site | :966 Chamber C |
| Operation Mode | :802.11g | Test Date | :2020-11-19 |
| Test Frequency | :2437 MHz | Temp./Humi. | :22.8/68 |
| Test Mode | :TX CH MID | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :E1 Plan | Engineer | :Ashton Chiu |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBμV/m | Limit @3m dBμV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 31.94 | Peak | 30.64 | -4.14 | 26.50 | 40.00 | -13.50 |
| 186.17 | Peak | 43.65 | -15.91 | 27.74 | 43.50 | -15.76 |
| 312.27 | Peak | 46.42 | -10.38 | 36.04 | 46.00 | -9.96 |
| 442.25 | Peak | 43.59 | -6.31 | 37.28 | 46.00 | -8.72 |
| 540.22 | Peak | 41.53 | -4.35 | 37.18 | 46.00 | -8.82 |
| 625.58 | Peak | 39.31 | -2.39 | 36.92 | 46.00 | -9.08 |

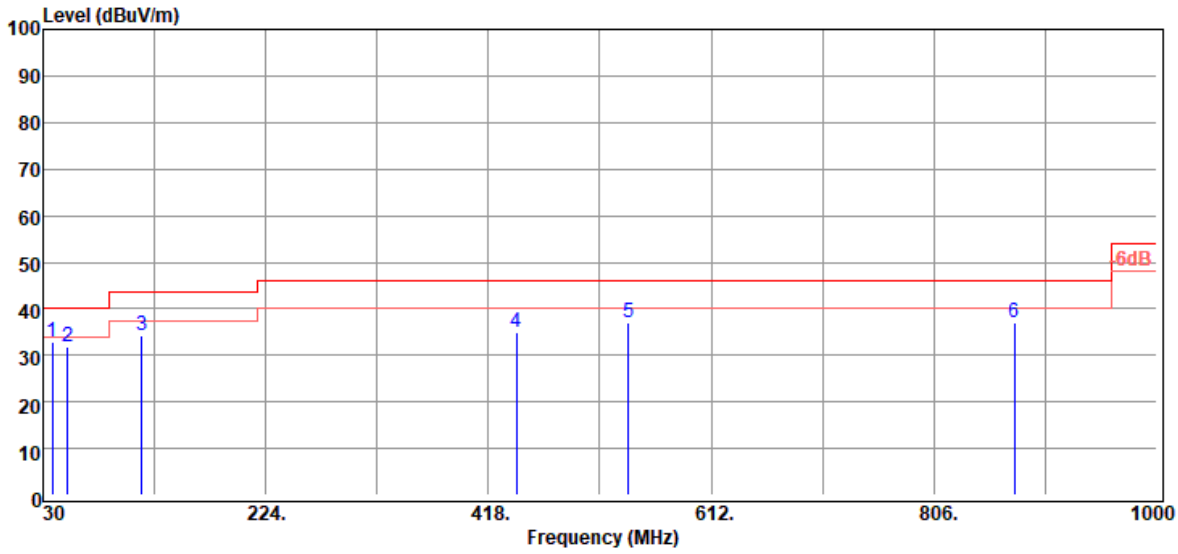
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.8/68
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 37.76 | Peak | 40.34 | -7.30 | 33.04 | 40.00 | -6.96 |
| 51.34 | Peak | 49.32 | -17.33 | 31.99 | 40.00 | -8.01 |
| 116.33 | Peak | 47.69 | -13.46 | 34.23 | 43.50 | -9.27 |
| 442.25 | Peak | 41.24 | -6.31 | 34.93 | 46.00 | -11.07 |
| 540.22 | Peak | 41.53 | -4.35 | 37.18 | 46.00 | -8.82 |
| 875.84 | Peak | 37.15 | -0.28 | 36.87 | 46.00 | -9.13 |

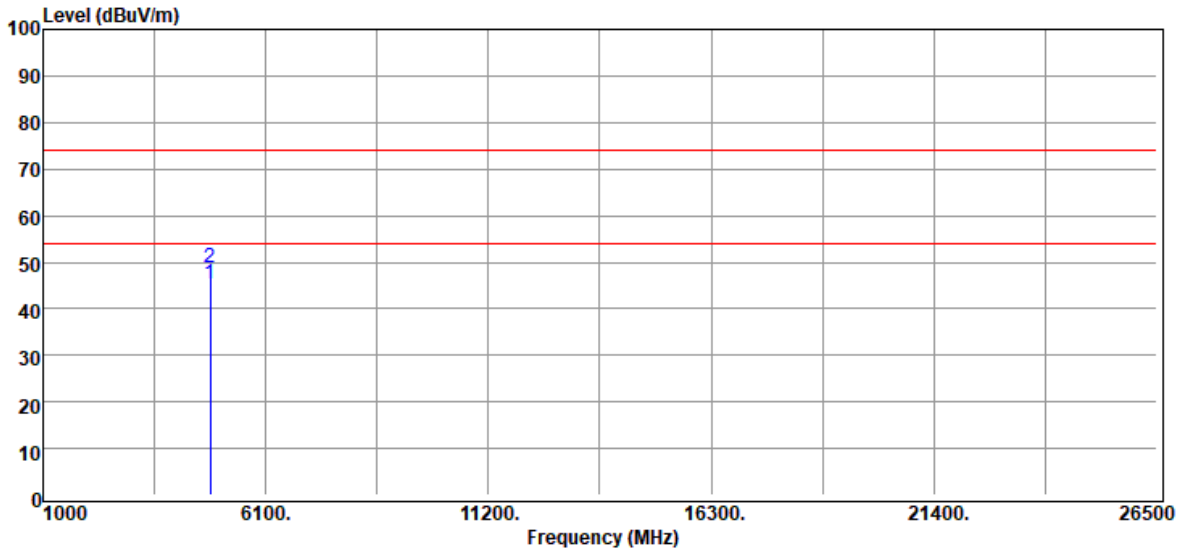
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11.7.3 Above 1GHz Emission:

| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :E2/2020/B0003 | Test Site | :966 Chamber C |
| Operation Mode | :802.11b | Test Date | :2020-11-19 |
| Test Frequency | :2412 MHz | Temp./Humi. | :23.6/69 |
| Test Mode | :TX CH LOW | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :E1 Plan | Engineer | :Ashton Chiu |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dBμV | Factor dB | Actual FS dBUV/m | Limit @3m dBUV/m | Margin dB |
|--------------|------------------------------|-----------------------------------|--------------|------------------------|------------------------|--------------|
| 4824.00 | Average | 31.30 | 14.10 | 45.40 | 54.00 | -8.60 |
| 4824.00 | Peak | 34.70 | 14.10 | 48.80 | 74.00 | -25.20 |

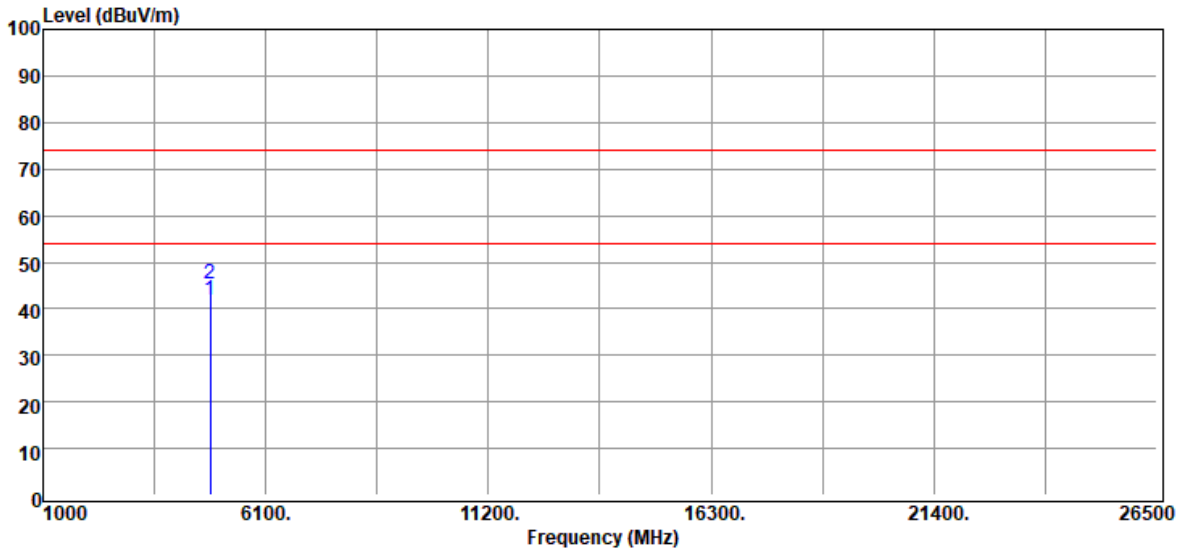
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Report Number :E2/2020/B0003
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :23.6/69
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | Average | 27.74 | 14.10 | 41.84 | 54.00 | -12.16 |
| 4824.00 | Peak | 31.19 | 14.10 | 45.29 | 74.00 | -28.71 |

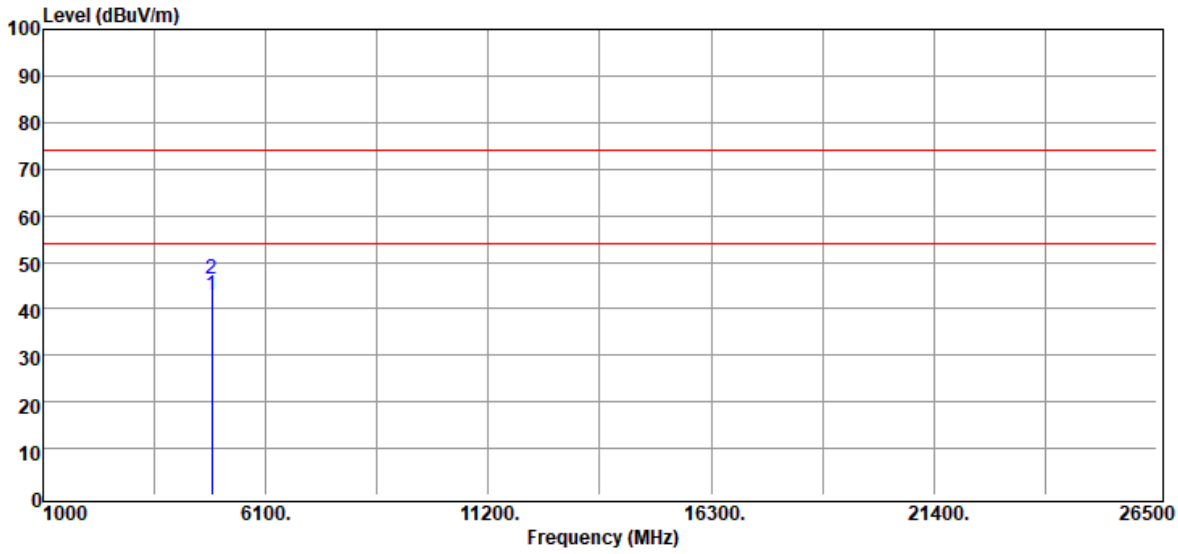
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Report Number :E2/2020/B0003
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :23.3/66
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 28.70 | 14.19 | 42.89 | 54.00 | -11.11 |
| 4874.00 | Peak | 32.26 | 14.19 | 46.45 | 74.00 | -27.55 |

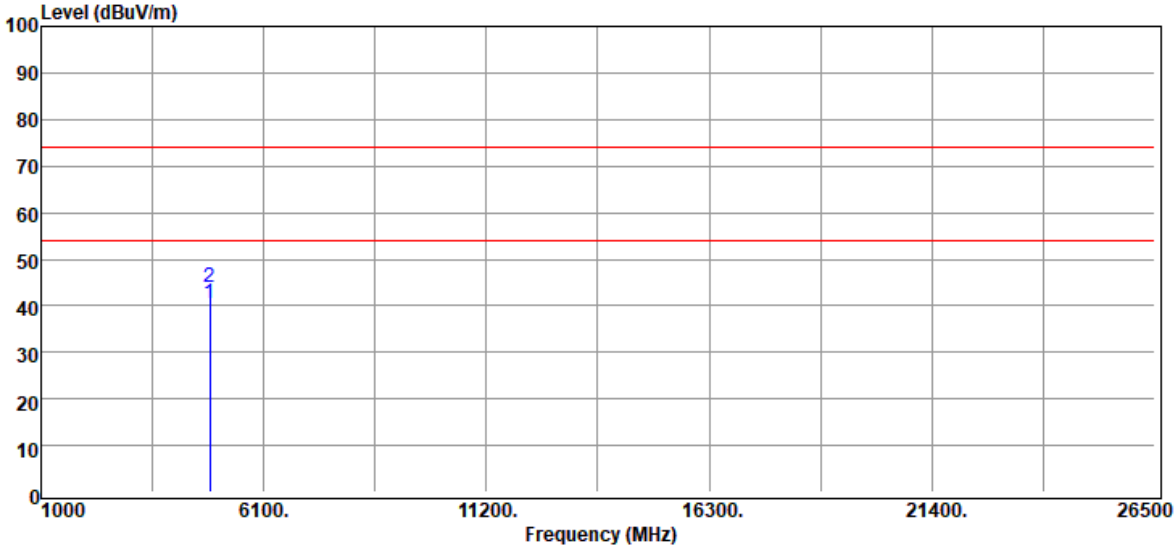
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Report Number :E2/2020/B0003
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :23.3/66
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 26.27 | 14.19 | 40.46 | 54.00 | -13.54 |
| 4874.00 | Peak | 29.64 | 14.19 | 43.83 | 74.00 | -30.17 |

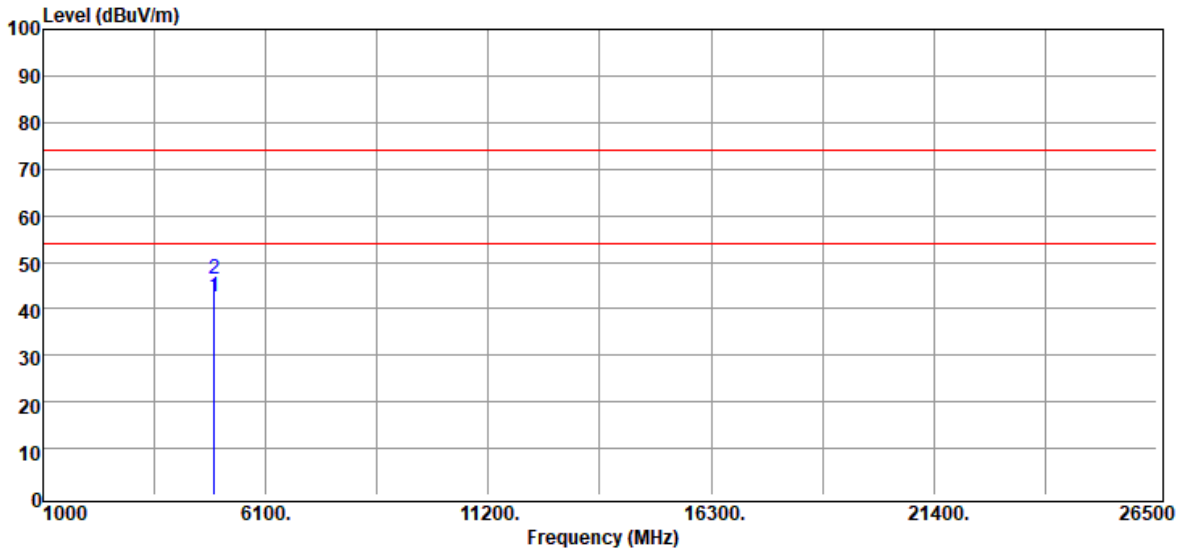
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Report Number :E2/2020/B0003
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.9/63
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4924.00 | Average | 28.42 | 14.19 | 42.61 | 54.00 | -11.39 |
| 4924.00 | Peak | 32.06 | 14.19 | 46.25 | 74.00 | -27.75 |

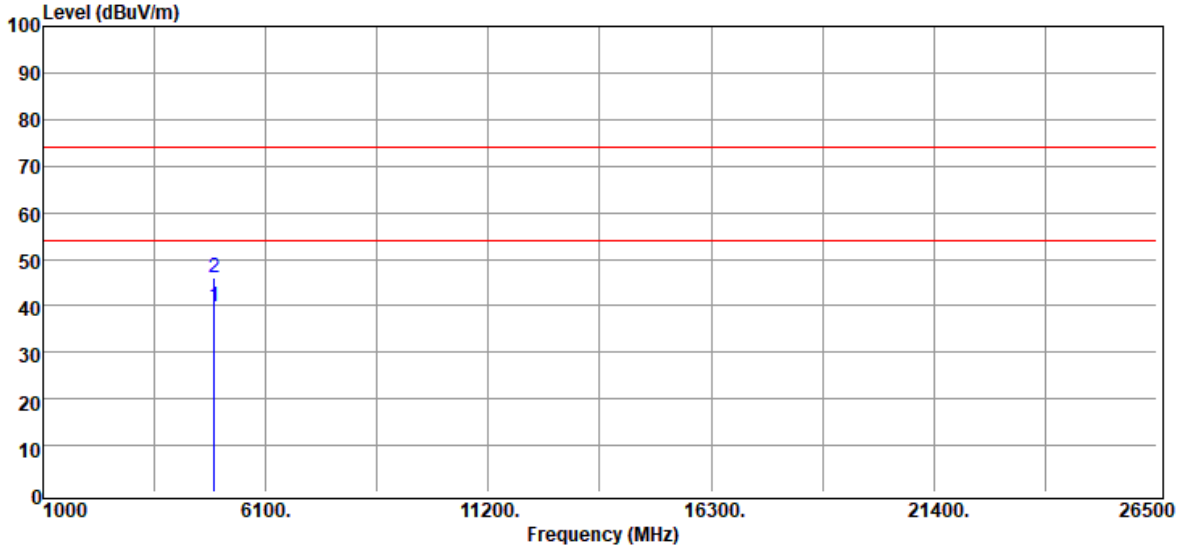
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Report Number :E2/2020/B0003
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.9/63
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4924.00 | Average | 25.64 | 14.19 | 39.83 | 54.00 | -14.17 |
| 4924.00 | Peak | 31.82 | 14.19 | 46.01 | 74.00 | -27.99 |

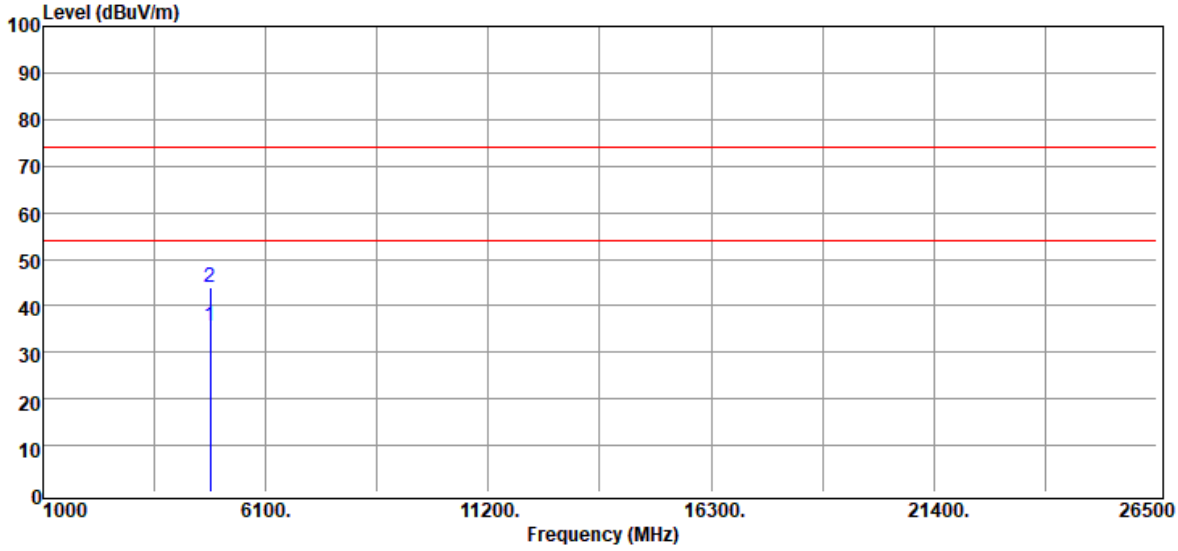
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.7/68
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | Average | 21.62 | 14.10 | 35.72 | 54.00 | -18.28 |
| 4824.00 | Peak | 29.98 | 14.10 | 44.08 | 74.00 | -29.92 |

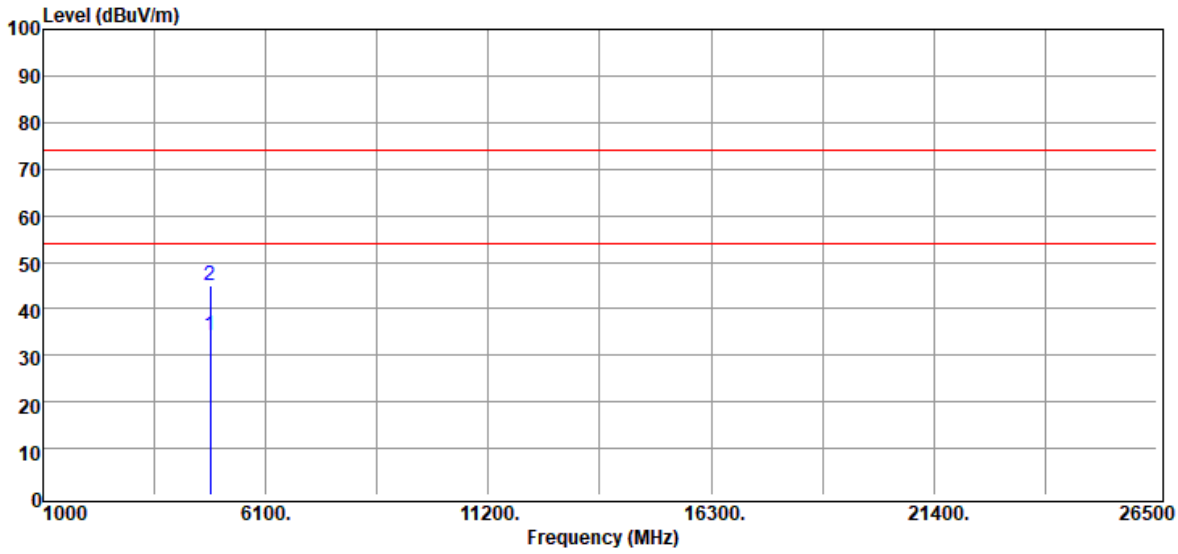
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.7/68
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



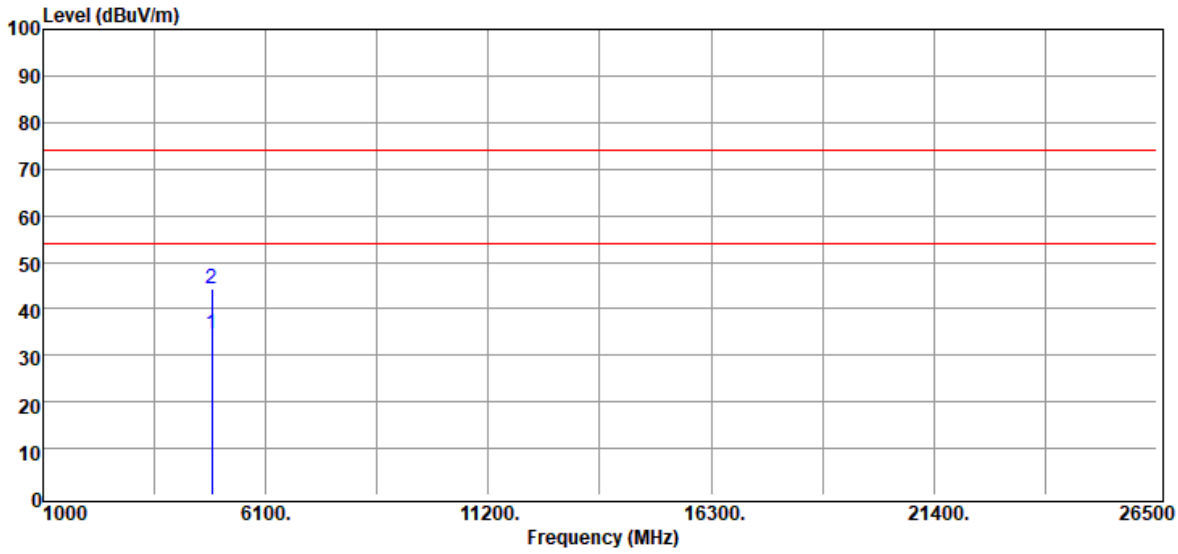
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | Average | 20.29 | 14.10 | 34.39 | 54.00 | -19.61 |
| 4824.00 | Peak | 31.04 | 14.10 | 45.14 | 74.00 | -28.86 |

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| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :E2/2020/B0003 | Test Site | :966 Chamber C |
| Operation Mode | :802.11g | Test Date | :2020-11-19 |
| Test Frequency | :2437 MHz | Temp./Humi. | :22.7/68 |
| Test Mode | :TX CH MID | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :E1 Plan | Engineer | :Ashton Chiu |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 20.54 | 14.19 | 34.73 | 54.00 | -19.27 |
| 4874.00 | Peak | 30.17 | 14.19 | 44.36 | 74.00 | -29.64 |

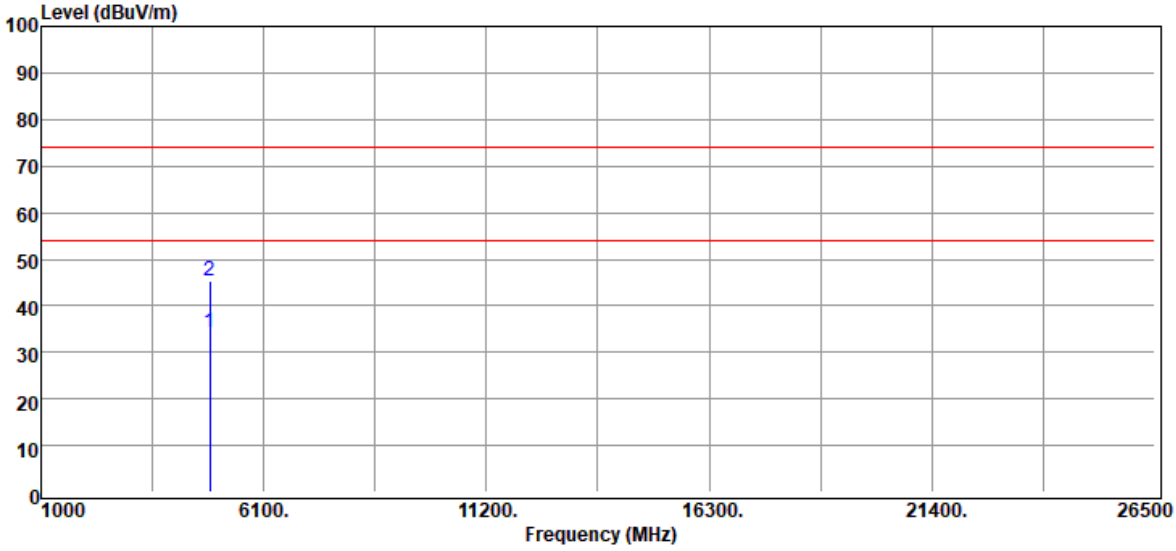
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.7/68
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 20.09 | 14.19 | 34.28 | 54.00 | -19.72 |
| 4874.00 | Peak | 31.09 | 14.19 | 45.28 | 74.00 | -28.72 |

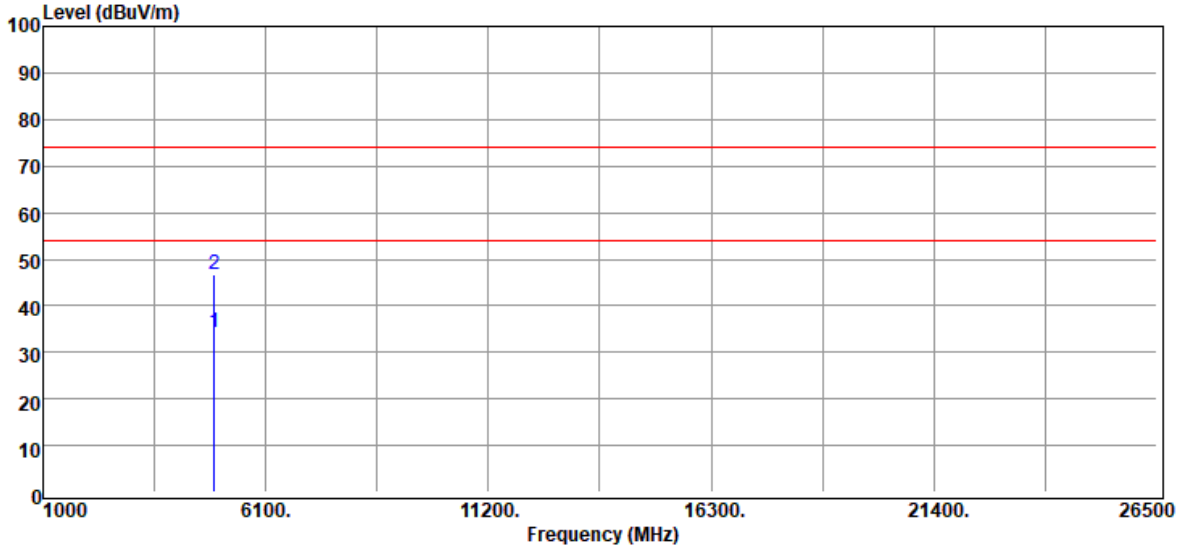
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Report Number :E2/2020/B0003
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.7/68
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



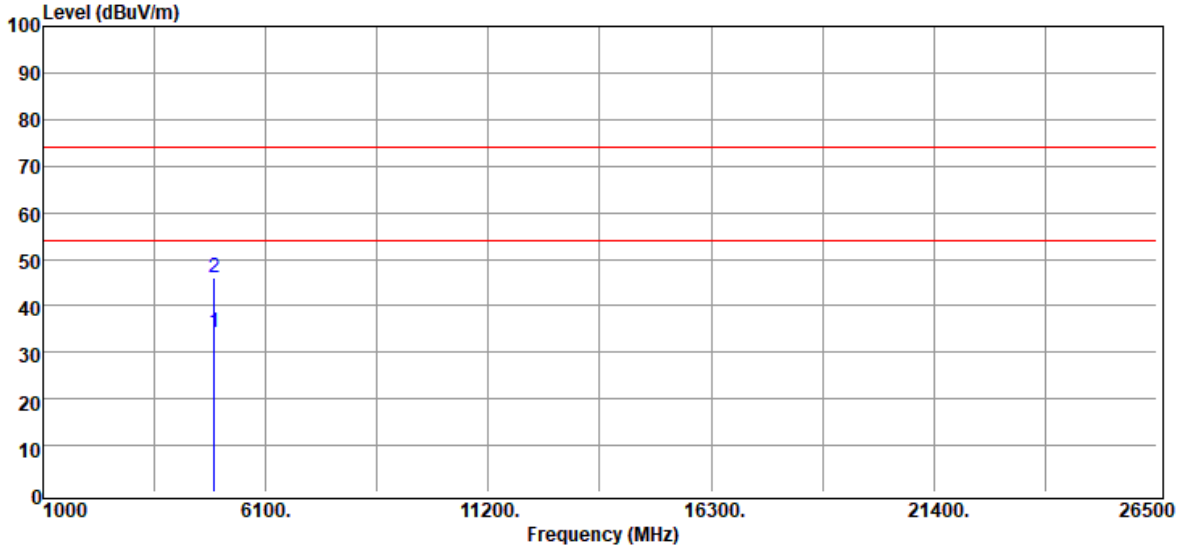
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4924.00 | Average | 20.21 | 14.19 | 34.40 | 54.00 | -19.60 |
| 4924.00 | Peak | 32.43 | 14.19 | 46.62 | 74.00 | -27.38 |

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| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :E2/2020/B0003 | Test Site | :966 Chamber C |
| Operation Mode | :802.11g | Test Date | :2020-11-19 |
| Test Frequency | :2462 MHz | Temp./Humi. | :22.7/68 |
| Test Mode | :TX CH HIGH | Antenna Pol. | :VERTICAL |
| EUT Pol | :E1 Plan | Engineer | :Ashton Chiu |



| Freq. MHz | Detector Mode | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4924.00 | Average | 20.02 | 14.19 | 34.21 | 54.00 | -19.79 |
| 4924.00 | Peak | 31.84 | 14.19 | 46.03 | 74.00 | -27.97 |

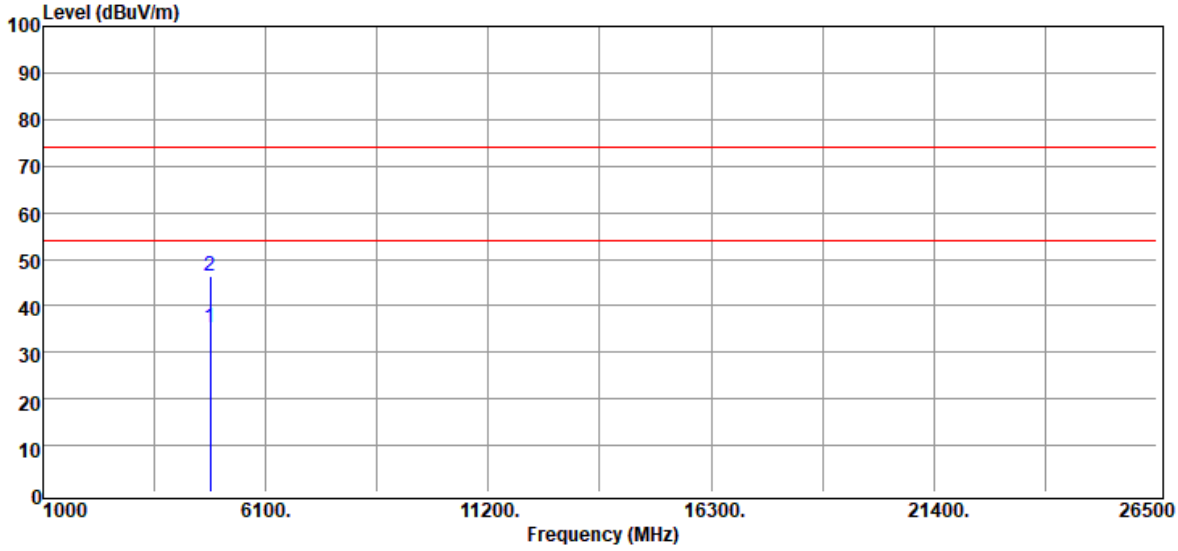
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.9/69
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | Average | 21.16 | 14.10 | 35.26 | 54.00 | -18.74 |
| 4824.00 | Peak | 32.26 | 14.10 | 46.36 | 74.00 | -27.64 |

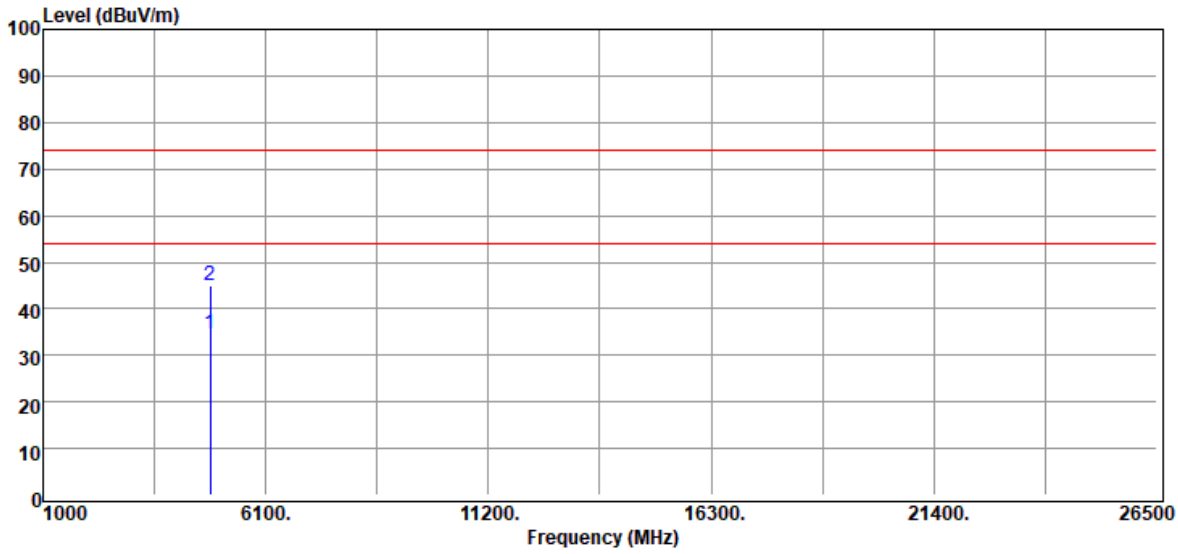
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :TX CH LOW
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.9/69
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



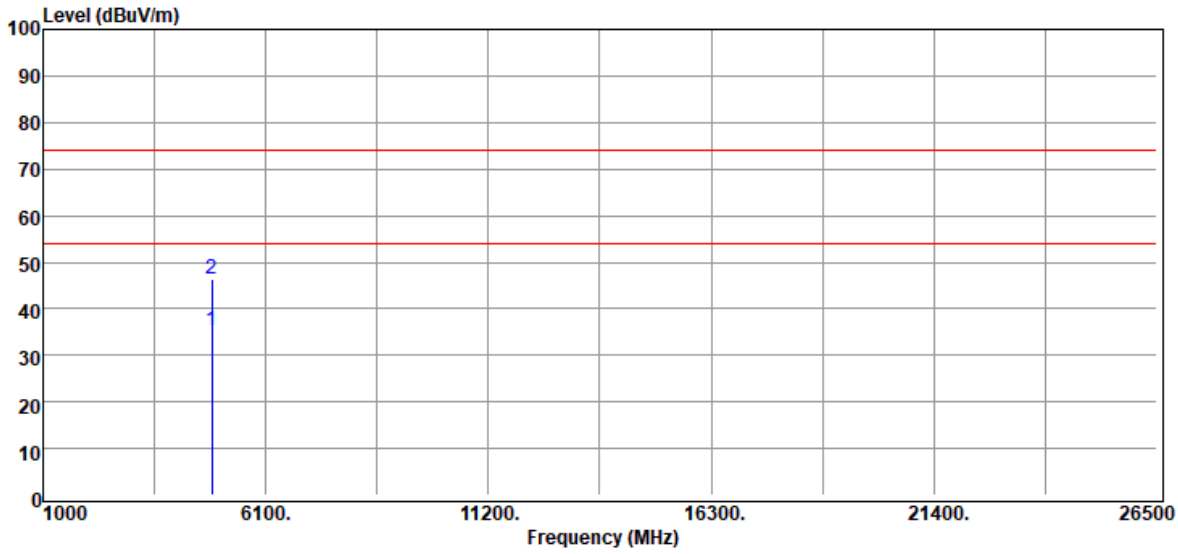
| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4824.00 | Average | 20.48 | 14.10 | 34.58 | 54.00 | -19.42 |
| 4824.00 | Peak | 30.89 | 14.10 | 44.99 | 74.00 | -29.01 |

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| | | | |
|----------------|----------------|--------------|----------------|
| Report Number | :E2/2020/B0003 | Test Site | :966 Chamber C |
| Operation Mode | :802.11n20 | Test Date | :2020-11-19 |
| Test Frequency | :2437 MHz | Temp./Humi. | :22.9/69 |
| Test Mode | :TX CH MID | Antenna Pol. | :HORIZONTAL |
| EUT Pol | :E1 Plan | Engineer | :Ashton Chiu |



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 21.21 | 14.19 | 35.40 | 54.00 | -18.60 |
| 4874.00 | Peak | 32.21 | 14.19 | 46.40 | 74.00 | -27.60 |

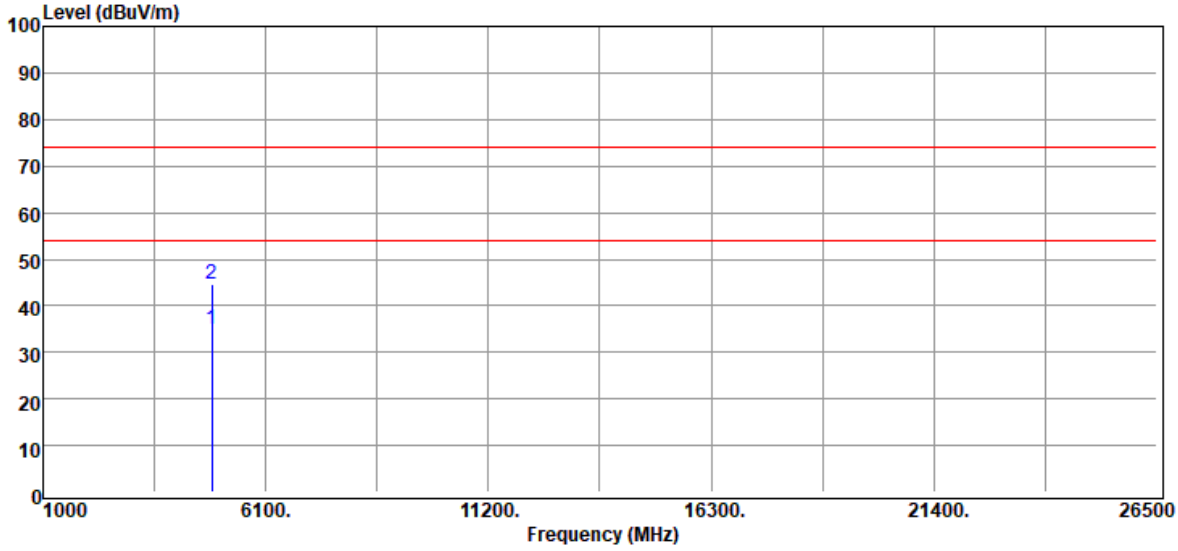
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :TX CH MID
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.9/69
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4874.00 | Average | 20.73 | 14.19 | 34.92 | 54.00 | -19.08 |
| 4874.00 | Peak | 30.61 | 14.19 | 44.80 | 74.00 | -29.20 |

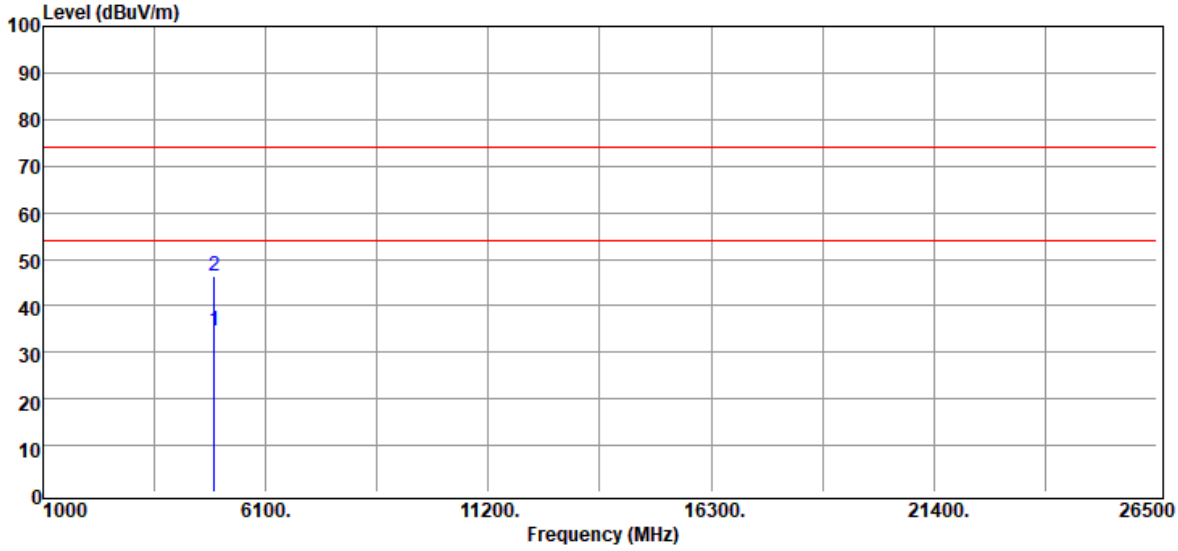
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.9/68
 Antenna Pol. :HORIZONTAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4924.00 | Average | 20.24 | 14.19 | 34.43 | 54.00 | -19.57 |
| 4924.00 | Peak | 32.29 | 14.19 | 46.48 | 74.00 | -27.52 |

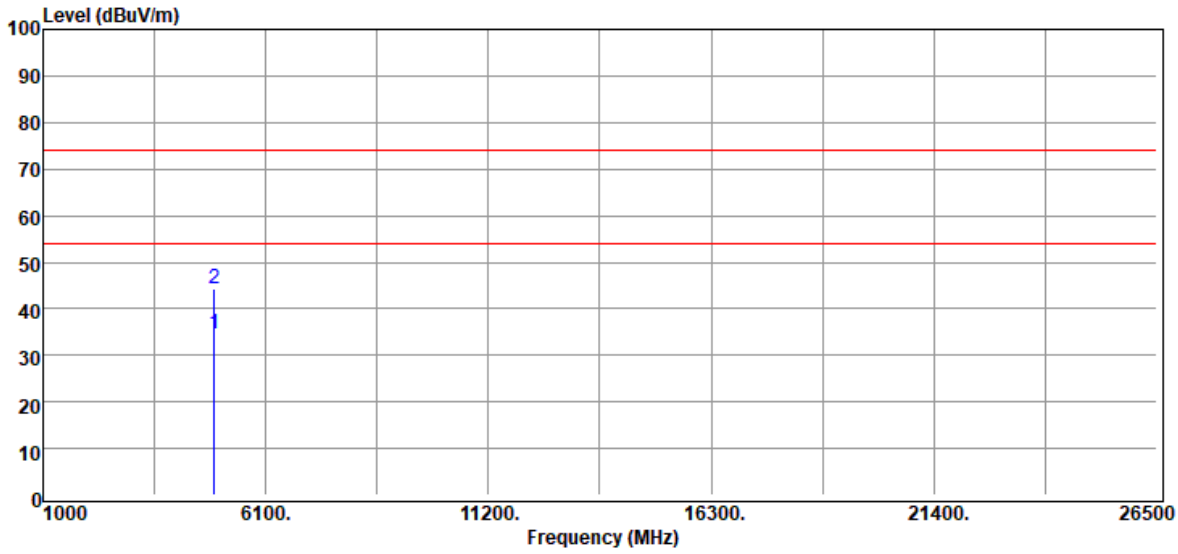
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Report Number :E2/2020/B0003
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E1 Plan

Test Site :966 Chamber C
 Test Date :2020-11-19
 Temp./Humi. :22.9/68
 Antenna Pol. :VERTICAL
 Engineer :Ashton Chiu



| Freq. MHz | Detector Mode PK/QP/AV | Spectrum Reading Level dB μ V | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|---|--------------|------------------------------|------------------------------|--------------|
| 4924.00 | Average | 20.37 | 14.19 | 34.56 | 54.00 | -19.44 |
| 4924.00 | Peak | 30.10 | 14.19 | 44.29 | 74.00 | -29.71 |

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

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

This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

12.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|--------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR/BRAND | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| DC Power Supply | DHA | DPS-3003 | 9411005787 | 08/19/2020 | 08/18/2021 |
| Power Meter | Anritsu | ML2496A | 1326001 | 08/05/2020 | 08/04/2021 |
| Power Sensor | Anritsu | MA2411B | 1315048 | 08/05/2020 | 08/04/2021 |
| Power Sensor | Anritsu | MA2411B | 1315049 | 08/05/2020 | 08/04/2021 |
| Spectrum Analyzer | KEYSIGHT | N9010B | MY59071574 | 06/24/2020 | 06/23/2021 |
| Attenuator | Woken | WATT-218FS-10 | RF03 | 11/19/2019 | 11/18/2020 |
| Attenuator | Marvelous | WATT-218FS-10 | RF23 | 11/19/2019 | 11/18/2020 |
| Coaxial Cables | Woken | 00100A1F1A185 C | RF83 | 11/19/2019 | 11/18/2020 |

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown blow indicate those equipment of which has been subject to undertake the calibration in inter-mediate period of time of the measurement.

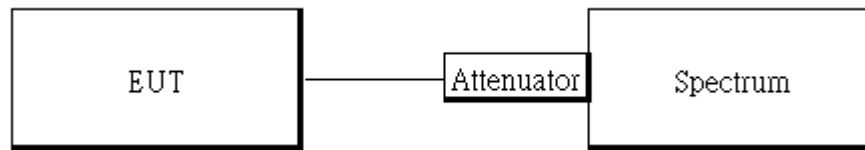
| EQUIPMENT TYPE | MFR/BRAND | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
|----------------|-----------|----------------|---------------|------------|------------|
| Attenuator | Woken | WATT-218FS-10 | RF03 | 11/19/2020 | 11/18/2021 |
| Attenuator | Marvelous | WATT-218FS-10 | RF23 | 11/19/2020 | 11/18/2021 |
| Coaxial Cables | Woken | 00100A1F1A185C | RF83 | 11/19/2020 | 11/18/2021 |

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12.3 Test Set-up



12.4 Measurement Procedure

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

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12.5 Power spectral density

| POWER DENSITY 802.11b | | | | |
|-----------------------|---------|----------------|------------------|--------|
| Freq. (MHz) | Ch0 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -7.06 | -7.06 | 8.00 | PASS |
| 2437 | -5.73 | -5.73 | 8.00 | PASS |
| 2462 | -7.85 | -7.85 | 8.00 | PASS |

| POWER DENSITY 802.11g | | | | |
|-----------------------|---------|----------------|------------------|--------|
| Freq. (MHz) | Ch0 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -11.35 | -11.35 | 8.00 | PASS |
| 2437 | -10.42 | -10.42 | 8.00 | PASS |
| 2462 | -8.9 | -8.90 | 8.00 | PASS |

| POWER DENSITY 802.11n HT20 | | | | |
|----------------------------|---------|----------------|------------------|--------|
| Freq. (MHz) | Ch0 PSD | PSD (dBm/3kHz) | Limit (dBm/3kHz) | Result |
| 2412 | -10.59 | -10.59 | 8.00 | PASS |
| 2437 | -9.84 | -9.84 | 8.00 | PASS |
| 2462 | -8.57 | -8.57 | 8.00 | PASS |

Note

Cable Loss: 11.10 dB

**Refer to next page for plots*

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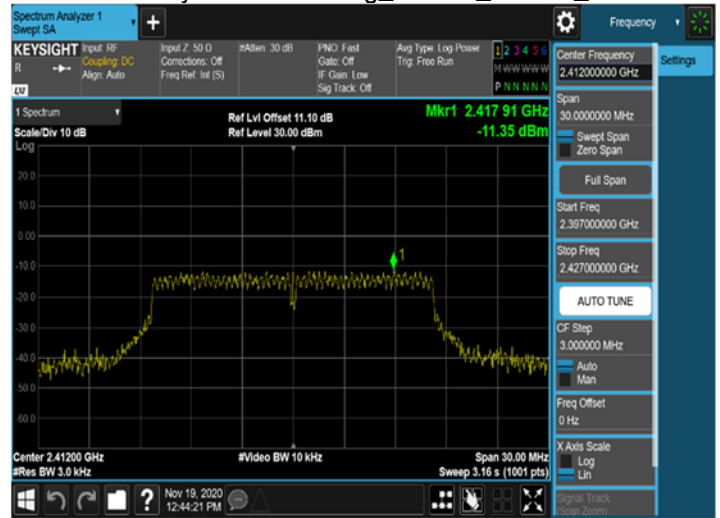
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Power Density\WLAN\802.11b_20MHz_Chain0_2412MHz



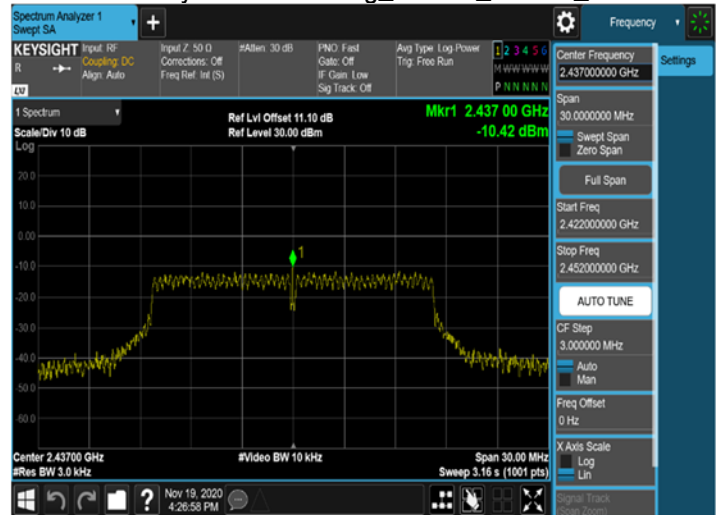
Power Density\WLAN\802.11g_20MHz_Chain0_2412MHz



Power Density\WLAN\802.11b_20MHz_Chain0_2437MHz



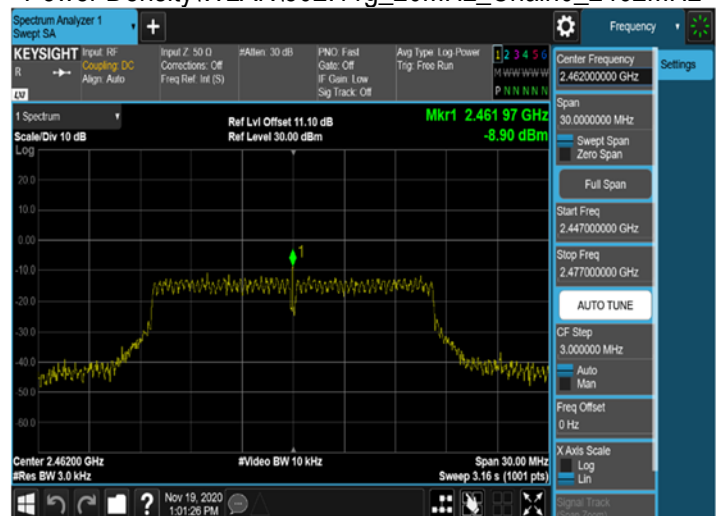
Power Density\WLAN\802.11g_20MHz_Chain0_2437MHz



Power Density\WLAN\802.11b_20MHz_Chain0_2462MHz



Power Density\WLAN\802.11g_20MHz_Chain0_2462MHz

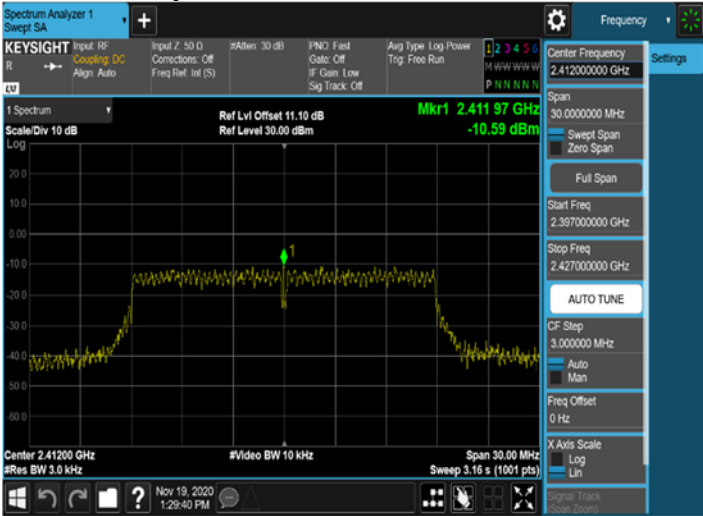


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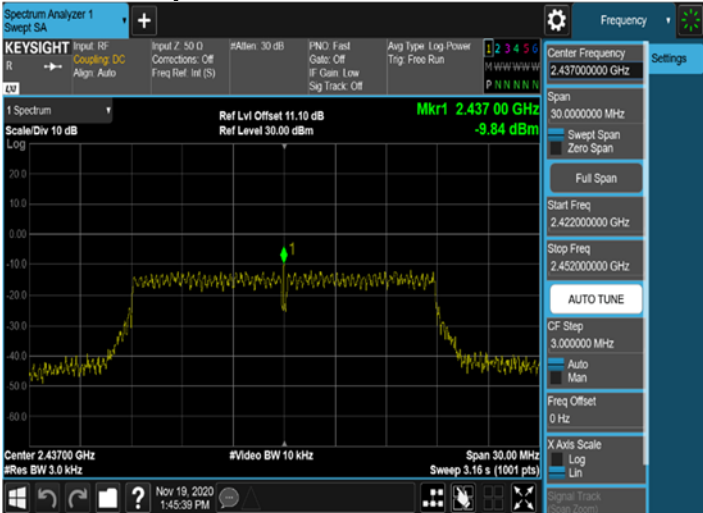
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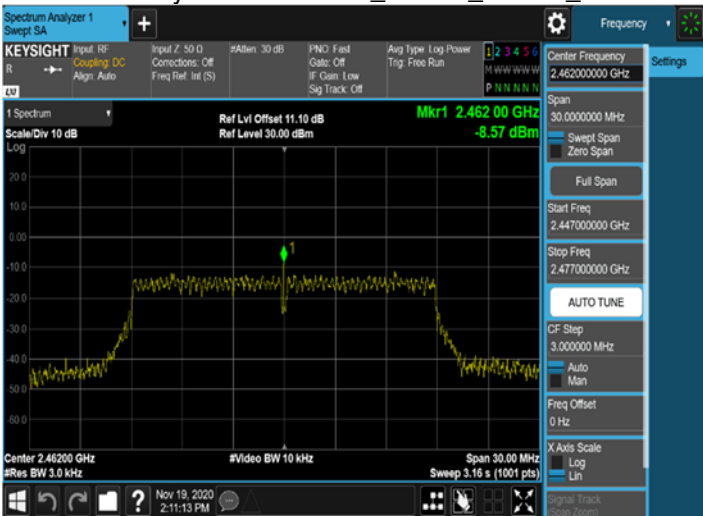
Power DensityWLAN\802.11n_20MHz_Chain0_2412MHz



Power DensityWLAN\802.11n_20MHz_Chain0_2437MHz



Power DensityWLAN\802.11n_20MHz_Chain0_2462MHz



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

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

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

13.2 Antenna Connected Construction

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

~ End of Report ~

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