

## FCC Test Report

**Report No.:** RF200427C09-2 R2

**FCC ID:** A4RGUIK2

**Model Name:** GUIK2

**Received Date:** Apr. 27, 2020

**Test Date:** May 15 ~ Jun. 02, 2020

**Issued Date:** Nov. 10, 2020

**Applicant:** Google LLC

**Address:** 1600 Amphitheatre Parkway, Mountain View, CA 94043, USA

**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Lin Kou Laboratories

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**Test Location:** No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City  
33383, Taiwan

**FCC Registration /  
Designation Number:** 788550 / TW0003



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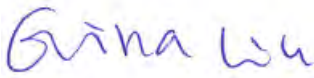
### Release Control Record


Issue No.	Description	Date Issued
RF200427C09-2	Original Release	Jun. 12, 2020
RF200427C09-2 R1	Updated power supply rating	Jun. 30, 2020
RF200427C09-2 R2	Remove 802.11n (HT40) function	Nov. 10, 2020

## 1 Certificate of Conformity

**Product:** Interactive Device  
**Model Name:** GUIK2  
**Sample Status:** Engineering Sample  
**Applicant:** Google LLC  
**Test Date:** May 15 ~ Jun. 02, 2020  
**Standards:** 47 CFR FCC Part 15, Subpart C (Section 15.247)  
ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

**Prepared by :** , **Date:** Nov. 10, 2020  
Gina Liu / Specialist

**Approved by :** , **Date:** Nov. 10, 2020  
Dylan Chiou / Senior Project Engineer

## 2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.247)			
FCC Clause	Test Item	Result	Remarks
15.207	AC Power Conducted Emission	Pass	Meet the requirement of limit. Minimum passing margin is -8.8 dB at 0.61125 MHz.
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	Pass	Meet the requirement of limit. Minimum passing margin is -1.52 dB at 2390 MHz.
15.247(d)	Antenna Port Emission	Pass	Meet the requirement of limit.
15.247(a)(2)	6 dB Bandwidth	Pass	Meet the requirement of limit.
---	Occupied Bandwidth Measurement	Pass	Reference only
15.247(b)	Conducted power	Pass	Meet the requirement of limit.
15.247(e)	Power Spectral Density	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	Antenna connector is i-pex(MHF) not a standard connector.

Note:

- For 2.4G band compliance with rule 15.247(d) of the band-edge items, the test plots were recorded in Annex B. Test Procedures refer to report 4.1.3.
- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150 kHz ~ 30 MHz	2.79 dB
Radiated Emissions up to 1 GHz	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	2.93 dB
	200 MHz ~ 1000 MHz	2.95 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.26 dB
	18 GHz ~ 40 GHz	1.94 dB

### 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

<b>Product</b>	Interactive Device
<b>Model Name</b>	GUIK2
<b>Status of EUT</b>	Engineering Sample
<b>Power Supply Rating</b>	14.0 Vdc (adapter)
<b>Modulation Type</b>	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
<b>Modulation Technology</b>	DSSS, OFDM
<b>Transfer Rate</b>	802.11b: 11.0 / 5.5 / 2.0 / 1.0 Mbps 802.11g: 54.0 / 48.0 / 36.0 / 24.0 / 18.0 / 12.0 / 9.0 / 6.0 Mbps 802.11n: up to 72.2 Mbps
<b>Operating Frequency</b>	2412 ~ 2472 MHz
<b>Number of Channel</b>	13 for 802.11b, 802.11g, 802.11n (HT20)
<b>Output Power</b>	196.336 mW
<b>Antenna Type</b>	PIFA antenna with 4.3 dBi gain
<b>Antenna Connector</b>	i-pex(MHF)
<b>SN</b>	1J365004810040204Q00135(MLB SN) SEM000061016 (FATP SN)
<b>Accessory Device</b>	Refer to Note as below
<b>Data Cable Supplied</b>	Refer to Note as below

Note:

1. The EUT incorporates a SISO function. Physically, the EUT provides one completed transmitter and one receiver.

Modulation Mode	Tx Function
802.11b	1TX
802.11g	1TX
802.11n (HT20)	1TX

2. The EUT's accessories list refers to Ext. Pho.
3. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

### 3.2 Description of Test Modes

13 channels are provided for 802.11b, 802.11g and 802.11n (HT20):

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432	12	2467
6	2437	13	2472
7	2442		



### 3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable To				Description
	RE $\geq$ 1G	RE<1G	PLC	APCM	
-	√	√	√	√	-

Where **RE $\geq$ 1G**: Radiated Emission above 1 GHz      **RE<1G**: Radiated Emission below 1 GHz  
**PLC**: Power Line Conducted Emission      **APCM**: Antenna Port Conducted Measurement

**NOTE:** The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.  
**NOTE:** “-” means no effect.

#### **Radiated Emission Test (Above 1 GHz) & Conducted Output power measurement:**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 13	1, 2, 3, 6, 9, 10, 11, 12, 13	DSSS	DBPSK	1.0
-	802.11g	1 to 13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	OFDM	BPSK	6.0
-	802.11n (HT20)	1 to 13	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13	OFDM	BPSK	6.5

#### **Radiated Emission Test (Below 1 GHz):**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11g	1 to 13	4	OFDM	BPSK	6.0

#### **Power Line Conducted Emission Test:**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11g	1 to 13	4	OFDM	BPSK	6.0

**Bandedge Measurement:**

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 13	1, 11, 12, 13	DSSS	DBPSK	1.0
-	802.11g	1 to 13	1, 11, 12, 13	OFDM	BPSK	6.0
-	802.11n (HT20)	1 to 13	1, 11, 12, 13	OFDM	BPSK	6.5

**Antenna Port Conducted Measurement:**

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Mode	Available Channel	Tested Channel	Modulation Technology	Modulation Type	Data Rate (Mbps)
-	802.11b	1 to 13	1, 6, 11, 12, 13	DSSS	DBPSK	1.0
-	802.11g	1 to 13	1, 6, 11, 12, 13	OFDM	BPSK	6.0
-	802.11n (HT20)	1 to 13	1, 6, 11, 12, 13	OFDM	BPSK	6.5

**Test Condition:**

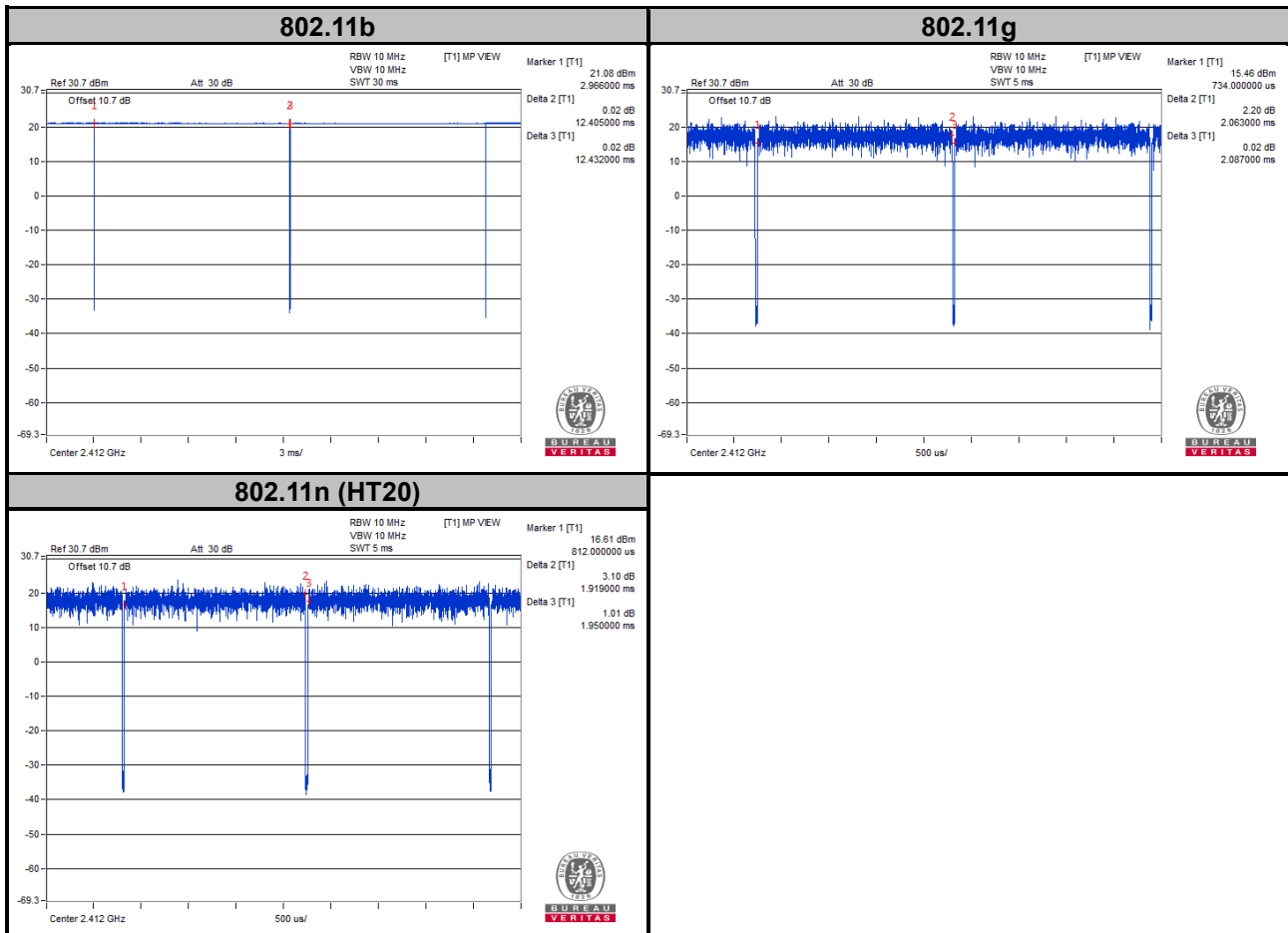
Applicable To	Environmental Conditions	Input Power	Tested by
RE≥1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Getaz Yang, Tim Chen, Jisyong Wang
RE<1G	25 deg. C, 65 % RH	120 Vac, 60 Hz	Getaz Yang
PLC	25 deg. C, 65 % RH	120 Vac, 60 Hz	Jisyong Wang
APCM	25 deg. C, 65 % RH	120 Vac, 60 Hz	Gavin Wu

### 3.3 Duty Cycle of Test Signal

**802.11b:** Duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.

**802.11g:** Duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.

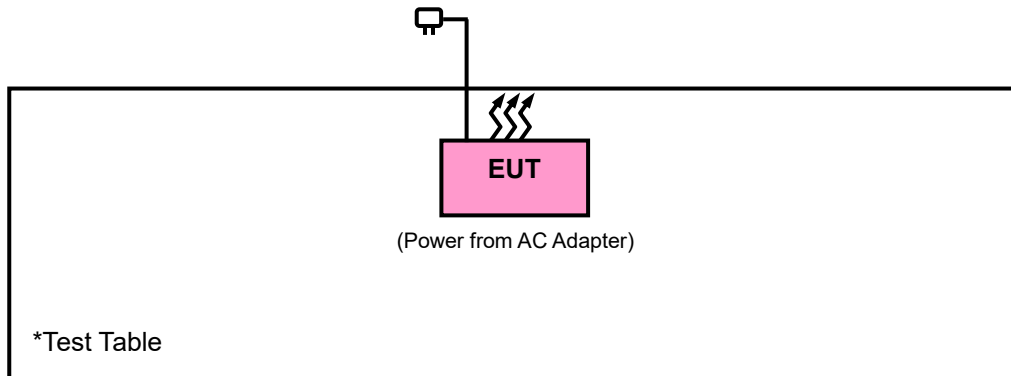
**802.11n (HT20):** Duty cycle of test signal is  $\geq 98\%$ , duty factor is not required.



### 3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

#### 3.4.1 Configuration of System under Test



### 3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

#### Test Standard:

**FCC Part 15, Subpart C (15.247)**

ANSI C63.10-2013

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

#### References Test Guidance:

**KDB 558074 D01 Meas Guidance v05r02**

**KDB 414788 D01 Radiated Test Site v01r01**

All test items have been performed as a reference to the above KDB test guidance.

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 30 dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30.0	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 (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

## 4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver Agilent	N9038A	MY51210203	Mar. 18, 2020	Mar. 17, 2021
Spectrum Analyzer Agilent	N9010A	MY52220314	Dec. 12, 2019	Dec. 11, 2020
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Apr. 16, 2020	Apr. 15, 2021
Spectrum Analyzer ROHDE & SCHWARZ	FSW26	102023	Oct. 08, 2019	Oct. 07, 2020
Broadband Horn Antenna SCHWARZBECK	BBHA 9170	148	Nov. 24, 2019	Nov. 23, 2020
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-969	Nov. 24, 2019	Nov. 23, 2020
BILOG Antenna SCHWARZBECK	VULB 9168	9168-472	Nov. 08, 2019	Nov. 07, 2020
Fixed Attenuator WOKEN	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
Loop Antenna	HLA 6121	45745	Jul. 01, 2019	Jun. 30, 2020
Preamplifier EMCI	EMC001340	980201	Oct. 14, 2019	Oct. 13, 2020
Preamplifier EMCI	EMC 012645	980115	Oct. 08, 2019	Oct. 07, 2020
Preamplifier EMCI	EMC 184045	980116	Oct. 08, 2019	Oct. 07, 2020
Preamplifier EMCI	EMC 330H	980112	Oct. 08, 2019	Oct. 07, 2020
Power Meter Anritsu	ML2495A	1012010	Sep. 04, 2019	Sep. 03, 2020
Power Sensor Anritsu	MA2411B	1315050	Sep. 04, 2019	Sep. 03, 2020
RF Coaxial Cable HUBER+SUHNNER	EMC104-SM-SM-8 000&3000	140811+170717	Oct. 08, 2019	Oct. 07, 2020
RF Coaxial Cable HUBER+SUHNNER	SUCOFLEX 104	EMC104-SM-SM-1 000(140807)	Oct. 08, 2019	Oct. 07, 2020
RF Coaxial Cable WOKEN	8D-FB	Cable-Ch10-01	Oct. 08, 2019	Oct. 07, 2020
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Chamber 10.

#### 4.1.3 Test Procedures

##### **For Radiated Emission below 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

##### **Note:**

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9 kHz at frequency below 30 MHz.

##### **For Radiated Emission above 30 MHz**

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30 MHz ~ 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. 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.
- f. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

##### **Note:**

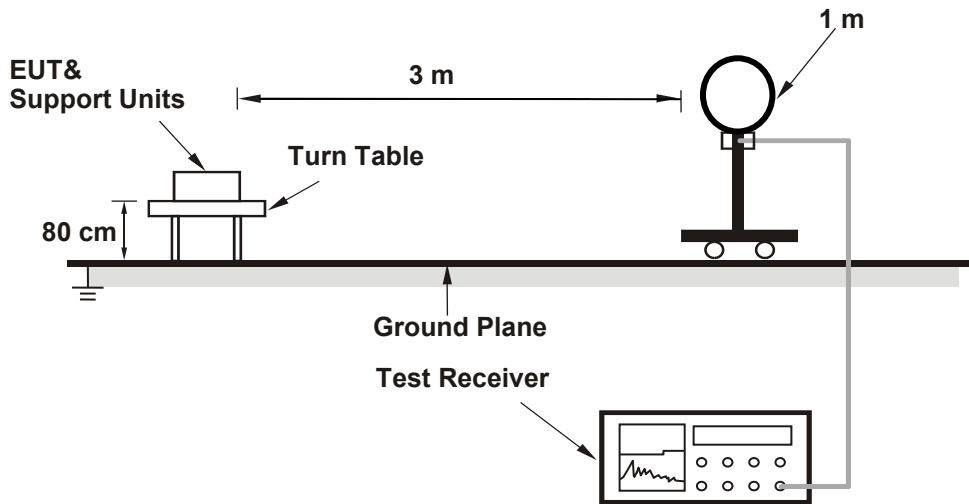
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) or Peak detection (PK) at frequency below 1 GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle < 98 %) or 10 Hz (Duty cycle  $\geq 98$  %) for Average detection (AV) at frequency above 1 GHz.  
(11b: RBW = 1 MHz, VBW = 10 Hz ; 11g: RBW = 1 MHz, VBW = 10 Hz ;  
11n (HT20): RBW = 1 MHz, VBW = 10 Hz)
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

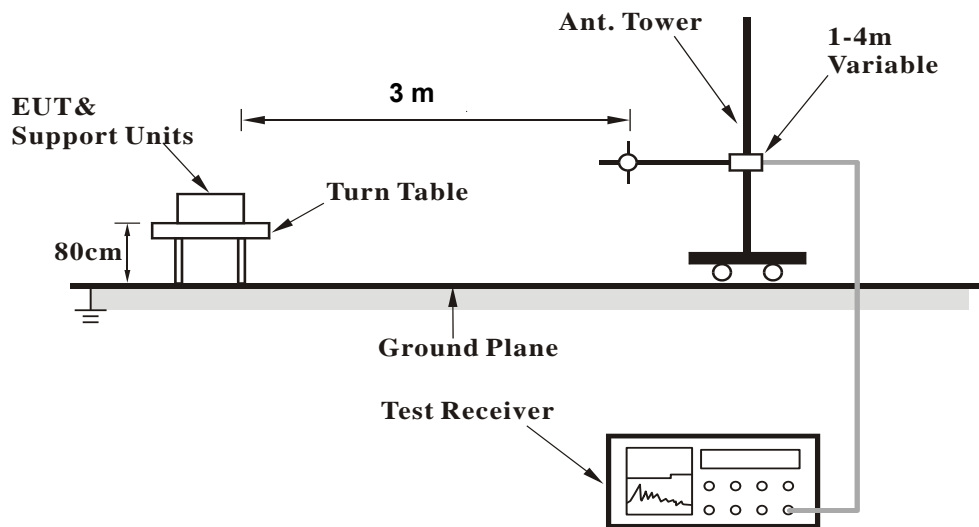
No deviation.

4.1.5 Test Set Up

<Radiated Emission below 30 MHz>

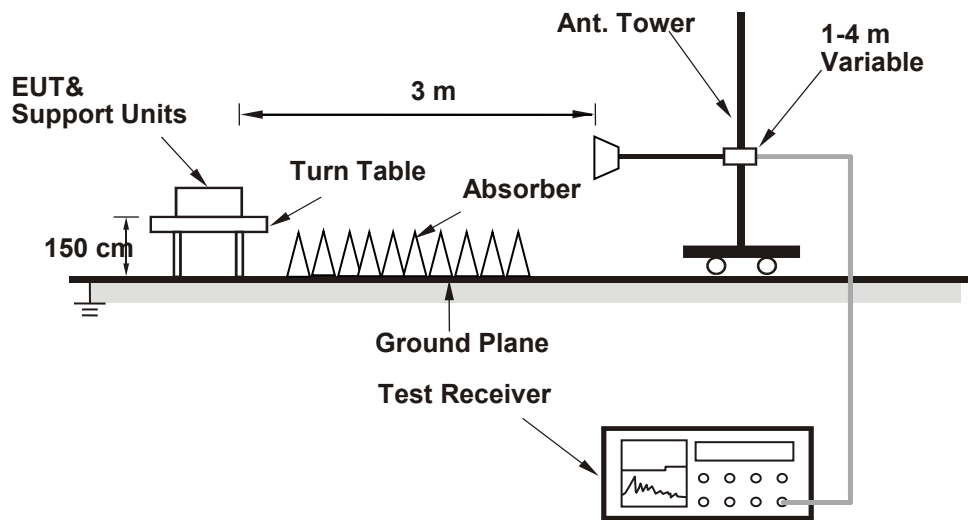


<Radiated Emission 30 MHz to 1 GHz>





**<Radiated Emission above 1 GHz>**



For the actual test configuration, please refer to the attached file (Test Setup Photo).

**KDB 414788 OATS and Chamber Correlation Justification**

- Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
- Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

**4.1.6 EUT Operating Conditions**

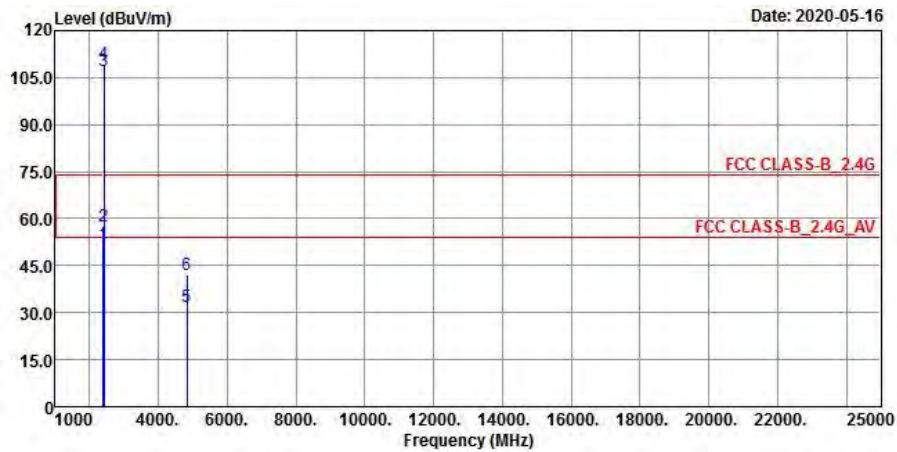
- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

4.1.7 Test Results

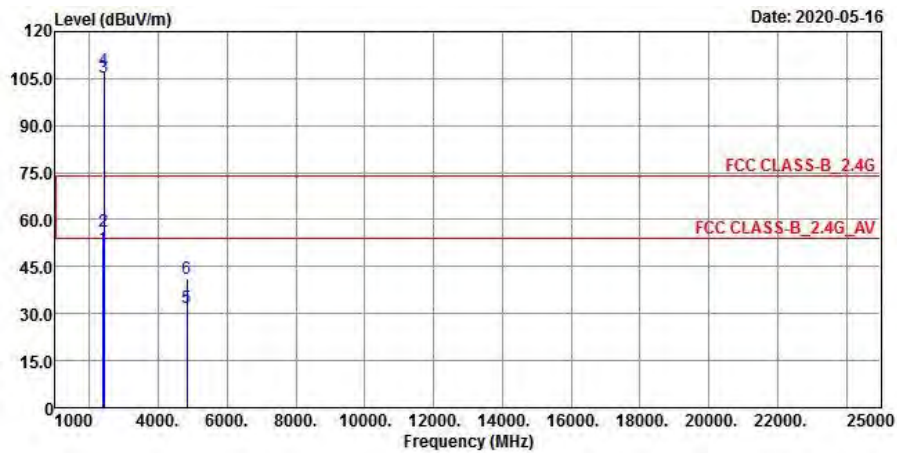
Above 1 GHz Data :  
802.11b

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

Horizontal



Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	51.91	57.83	-5.92	54	-2.09	266	307	Average
2390	57.66	63.58	-5.92	74	-16.34	266	307	Peak
2412	107.07	113.02	-5.95	-----	-----	266	307	Average
2412	109.42	115.37	-5.95	-----	-----	266	307	Peak
4824	31.72	47.34	-15.62	54	-22.28	225	230	Average
4824	42	57.62	-15.62	74	-32	225	230	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

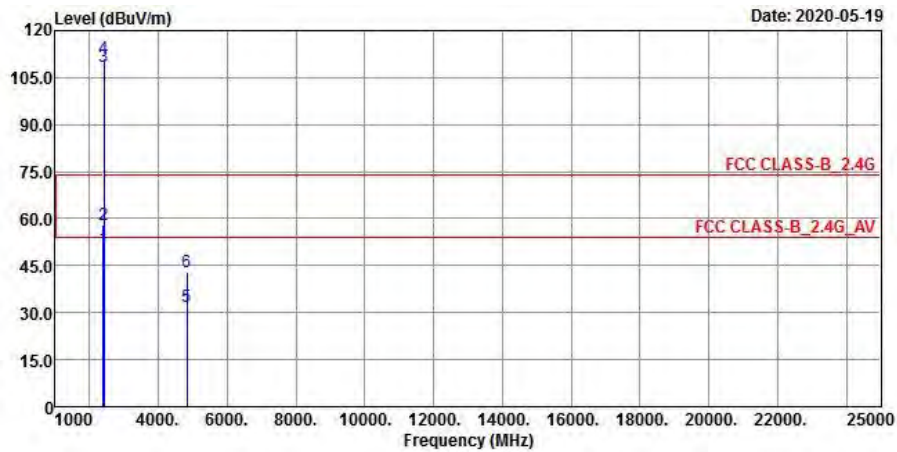
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	50.82	56.74	-5.92	54	-3.18	356	243	Average
2390	56.35	62.27	-5.92	74	-17.65	356	243	Peak
2412	105.25	111.2	-5.95	-----	-----	356	243	Average
2412	107.61	113.56	-5.95	-----	-----	356	243	Peak
4824	31.68	47.3	-15.62	54	-22.32	193	188	Average
4824	41.29	56.91	-15.62	74	-32.71	193	188	Peak

Remarks:

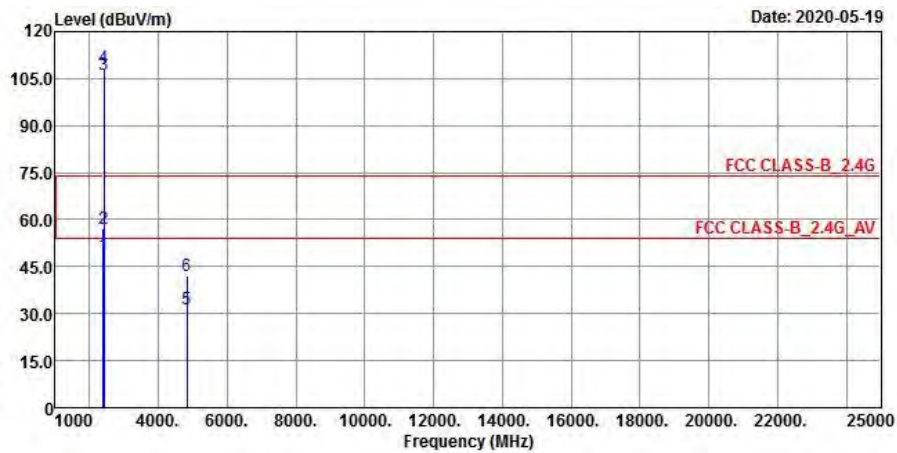
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2412 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 2	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



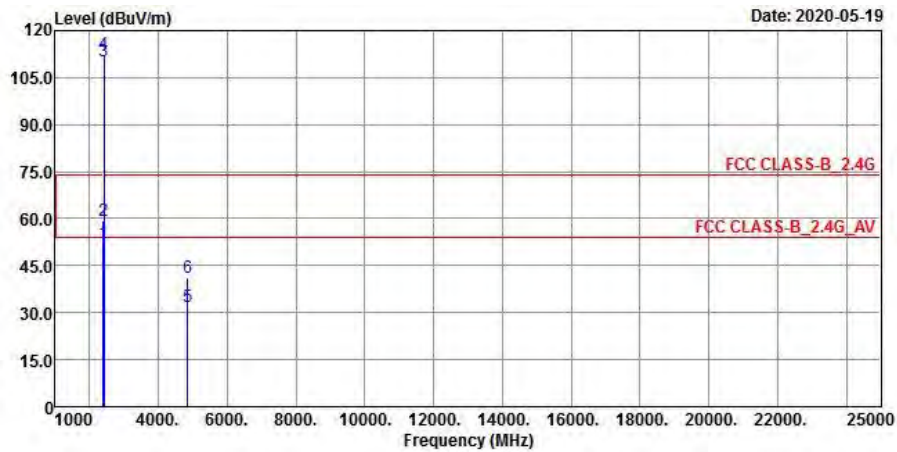
Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	50.53	56.45	-5.92	54	-3.47	244	302	Average
2390	57.94	63.86	-5.92	74	-16.06	244	302	Peak
2417	108.63	114.51	-5.88	-----	-----	244	302	Average
2417	111	116.88	-5.88	-----	-----	244	302	Peak
4834	31.7	47.29	-15.59	54	-22.3	224	233	Average
4834	43.02	58.61	-15.59	74	-30.98	224	233	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	48.7	54.62	-5.92	54	-5.3	336	233	Average
2390	57.07	62.99	-5.92	74	-16.93	336	233	Peak
2417	106.1	111.98	-5.88	-----	-----	336	233	Average
2417	108.45	114.33	-5.88	-----	-----	336	233	Peak
4834	31.57	47.16	-15.59	54	-22.43	187	202	Average
4834	42.12	57.71	-15.59	74	-31.88	187	202	Peak

Remarks:

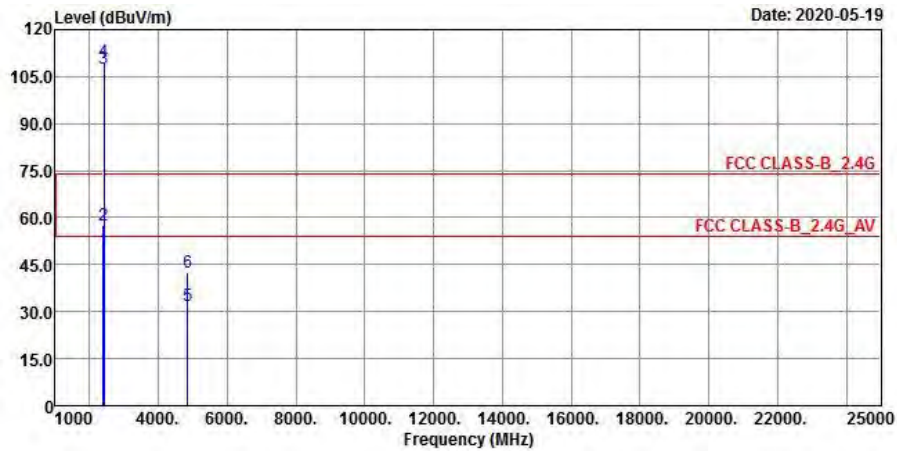
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2417 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.31	58.23	-5.92	54	-1.69	236	307	Average
2390	59.42	65.34	-5.92	74	-14.58	236	307	Peak
2422	110.1	115.98	-5.88	-----	-----	236	307	Average
2422	112.35	118.23	-5.88	-----	-----	236	307	Peak
4844	31.97	47.56	-15.59	54	-22.03	217	244	Average
4844	41.23	56.82	-15.59	74	-32.77	217	244	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

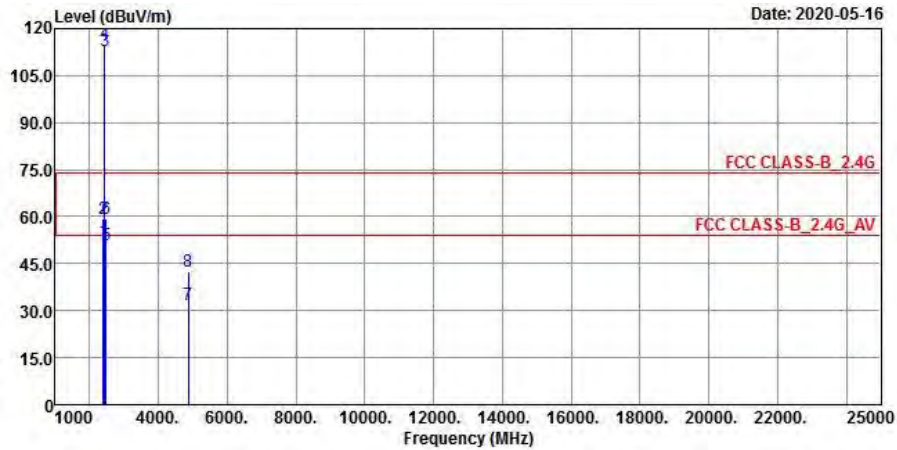
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	49.67	55.59	-5.92	54	-4.33	336	233	Average
2390	57.74	63.66	-5.92	74	-16.26	336	233	Peak
2422	107.7	113.58	-5.88	-----	-----	336	233	Average
2422	109.98	115.86	-5.88	-----	-----	336	233	Peak
4844	31.72	47.31	-15.59	54	-22.28	191	194	Average
4844	42.45	58.04	-15.59	74	-31.55	191	194	Peak

Remarks:

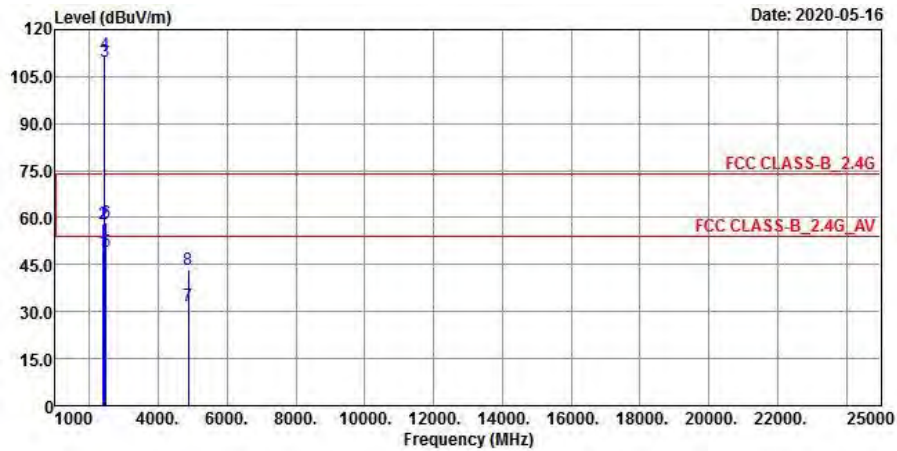
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2422 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

**Horizontal**



**Vertical**





**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.11	58.03	-5.92	54	-1.89	248	308	Average
2390	59.36	65.28	-5.92	74	-14.64	248	308	Peak
2437	112.78	118.67	-5.89	-----	-----	248	308	Average
2437	114.91	120.8	-5.89	-----	-----	248	308	Peak
2483.5	50.96	56.66	-5.7	54	-3.04	248	308	Average
2483.5	59.18	64.88	-5.7	74	-14.82	248	308	Peak
4874	31.77	47.33	-15.56	54	-22.23	234	219	Average
4874	42.33	57.89	-15.56	74	-31.67	234	219	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

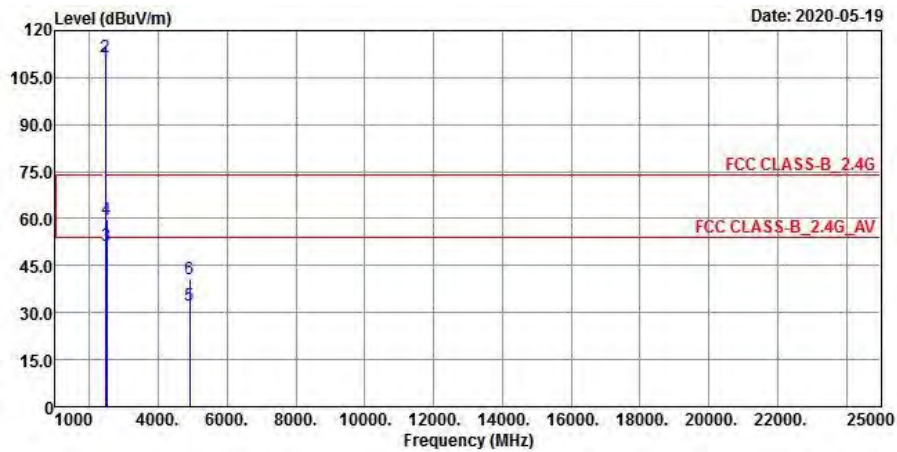
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	49.2	55.12	-5.92	54	-4.8	349	240	Average
2390	58.1	64.02	-5.92	74	-15.9	349	240	Peak
2437	109.88	115.77	-5.89	-----	-----	349	240	Average
2437	111.93	117.82	-5.89	-----	-----	349	240	Peak
2483.5	49.23	54.93	-5.7	54	-4.77	349	240	Average
2483.5	58.27	63.97	-5.7	74	-15.73	349	240	Peak
4874	31.82	47.38	-15.56	54	-22.18	182	175	Average
4874	43.4	58.96	-15.56	74	-30.6	182	175	Peak

Remarks:

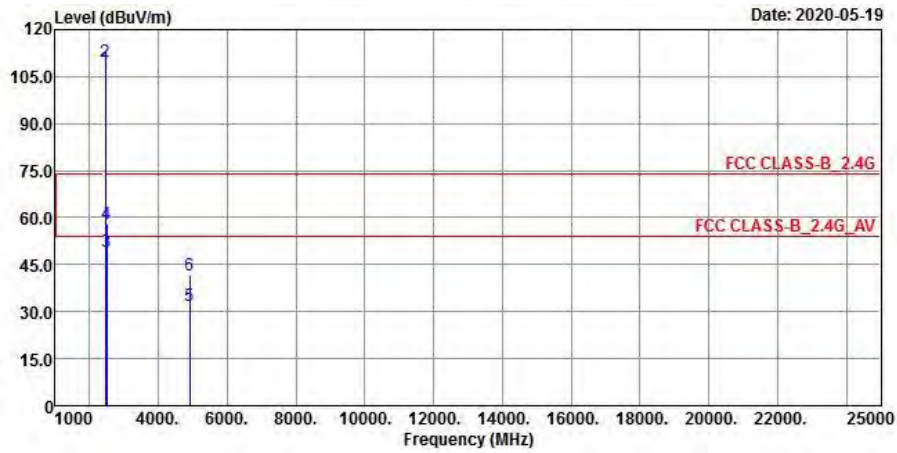
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2437 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 9	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2452	109.31	115.13	-5.82	-----	-----	243	304	Average
2452	111.62	117.44	-5.82	-----	-----	243	304	Peak
2484.344	51.15	56.85	-5.7	54	-2.85	243	304	Average
2484.344	59.77	65.47	-5.7	74	-14.23	243	304	Peak
4904	32.35	47.9	-15.55	54	-21.65	224	253	Average
4904	40.92	56.47	-15.55	74	-33.08	224	253	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

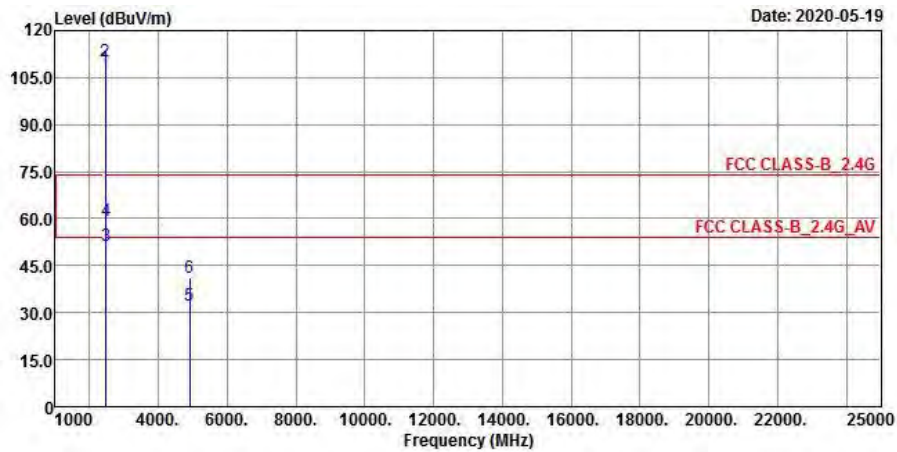
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2452	107.67	113.49	-5.82	-----	-----	344	248	Average
2452	109.99	115.81	-5.82	-----	-----	344	248	Peak
2484.268	49.08	54.78	-5.7	54	-4.92	344	248	Average
2484.268	57.85	63.55	-5.7	74	-16.15	344	248	Peak
4904	32.03	47.58	-15.55	54	-21.97	198	198	Average
4904	41.71	57.26	-15.55	74	-32.29	198	198	Peak

Remarks:

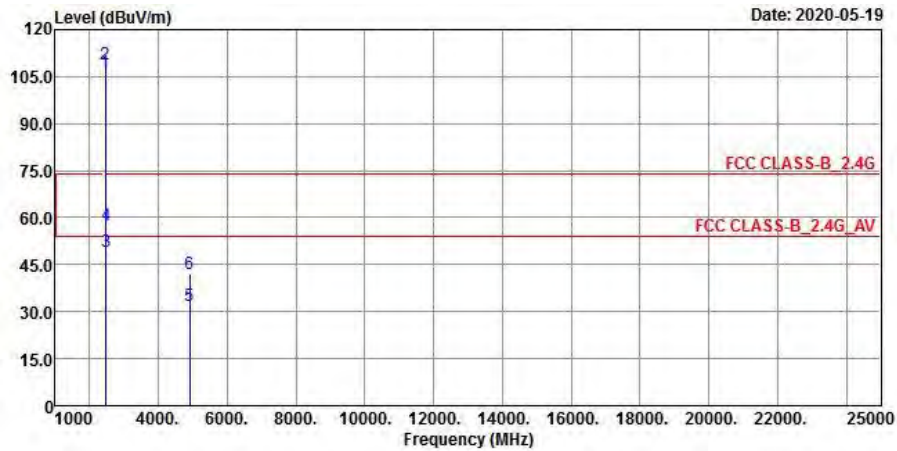
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2452 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 10	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	107.87	113.68	-5.81	-----	-----	243	300	Average
2457	110.29	116.1	-5.81	-----	-----	243	300	Peak
2483.5	51.33	57.03	-5.7	54	-2.67	243	300	Average
2483.5	59.2	64.9	-5.7	74	-14.8	243	300	Peak
4914	32.28	47.81	-15.53	54	-21.72	216	248	Average
4914	41.17	56.7	-15.53	74	-32.83	216	248	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

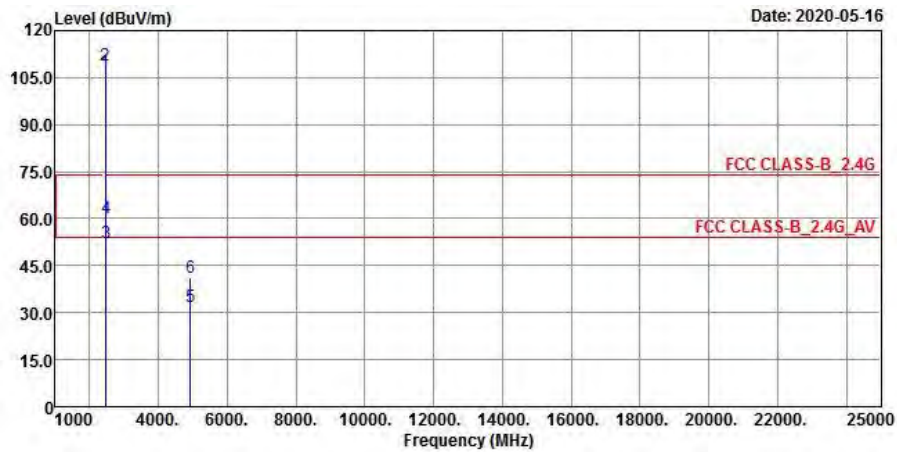
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	106.41	112.22	-5.81	-----	-----	345	248	Average
2457	108.79	114.6	-5.81	-----	-----	345	248	Peak
2483.5	49.14	54.84	-5.7	54	-4.86	345	248	Average
2483.5	57.6	63.3	-5.7	74	-16.4	345	248	Peak
4914	32.02	47.55	-15.53	54	-21.98	181	186	Average
4914	42.06	57.59	-15.53	74	-31.94	181	186	Peak

Remarks:

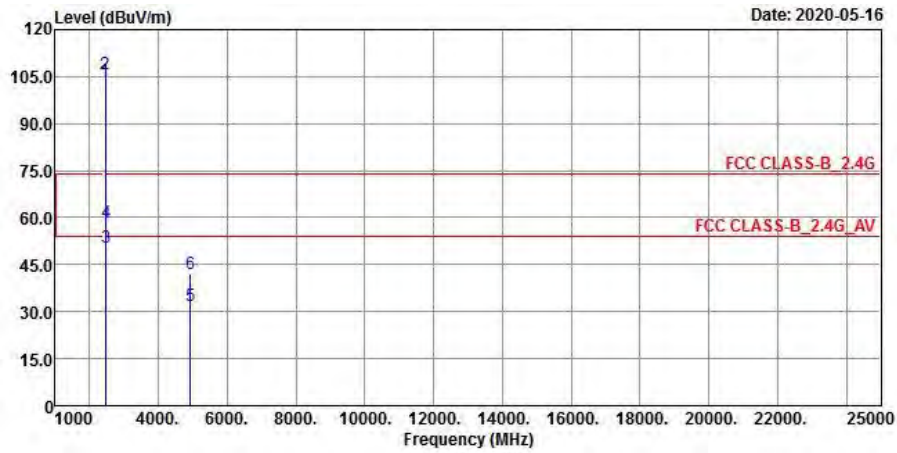
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2457 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	106.58	112.39	-5.81	-----	-----	244	308	Average
2462	108.95	114.76	-5.81	-----	-----	244	308	Peak
2483.5	52.42	58.12	-5.7	54	-1.58	244	308	Average
2483.5	60.1	65.8	-5.7	74	-13.9	244	308	Peak
4924	31.89	47.4	-15.51	54	-22.11	246	229	Average
4924	41.18	56.69	-15.51	74	-32.82	246	229	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

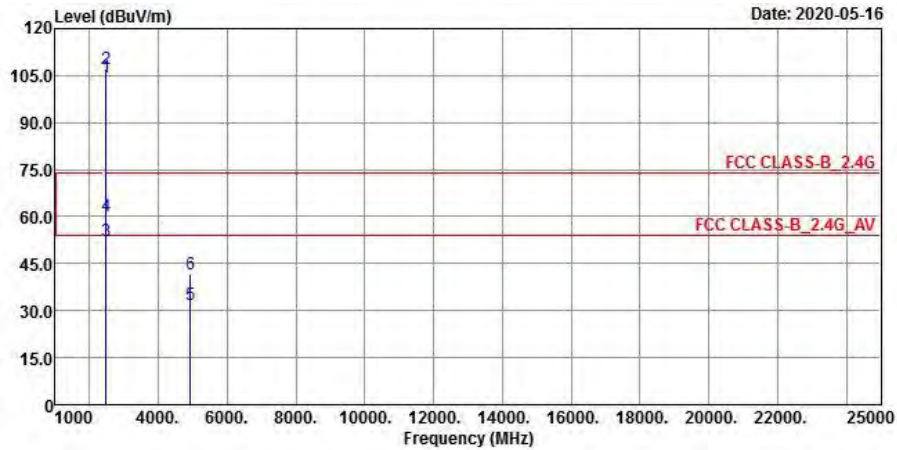
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	103.61	109.42	-5.81	-----	-----	352	227	Average
2462	105.94	111.75	-5.81	-----	-----	352	227	Peak
2483.5	50.59	56.29	-5.7	54	-3.41	352	227	Average
2483.5	58.29	63.99	-5.7	74	-15.71	352	227	Peak
4924	31.98	47.49	-15.51	54	-22.02	186	165	Average
4924	42.07	57.58	-15.51	74	-31.93	186	165	Peak

Remarks:

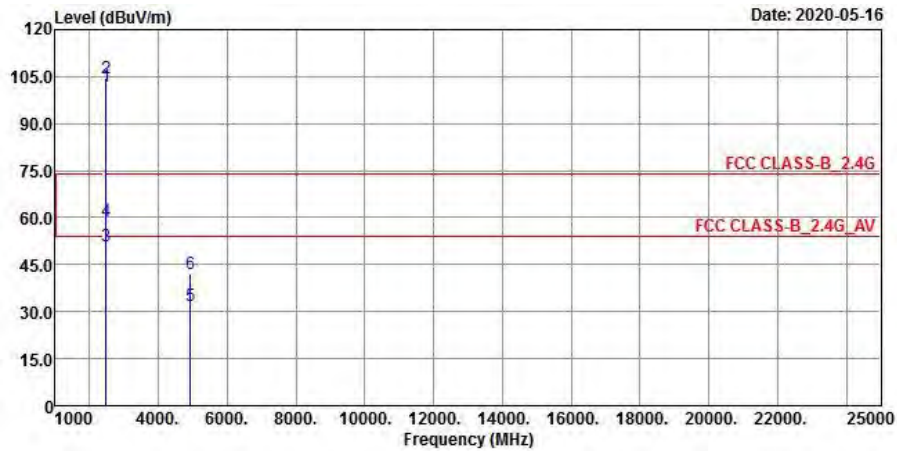
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2462 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 12	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

**Horizontal**



**Vertical**





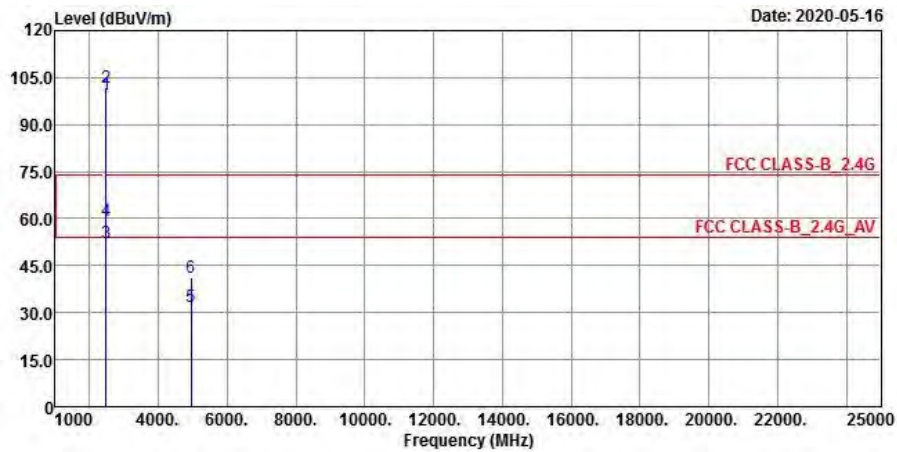
Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	104.62	110.34	-5.72	-----	-----	248	308	Average
2467	106.97	112.69	-5.72	-----	-----	248	308	Peak
2483.5	52.22	57.92	-5.7	54	-1.78	248	308	Average
2483.5	60.13	65.83	-5.7	74	-13.87	248	308	Peak
4934	31.97	47.48	-15.51	54	-22.03	242	245	Average
4934	41.46	56.97	-15.51	74	-32.54	242	245	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	101.72	107.44	-5.72	-----	-----	350	226	Average
2467	104.51	110.23	-5.72	-----	-----	350	226	Peak
2483.5	50.81	56.51	-5.7	54	-3.19	350	226	Average
2483.5	59.07	64.77	-5.7	74	-14.93	350	226	Peak
4934	32.03	47.54	-15.51	54	-21.97	191	171	Average
4934	42.16	57.67	-15.51	74	-31.84	191	171	Peak

Remarks:

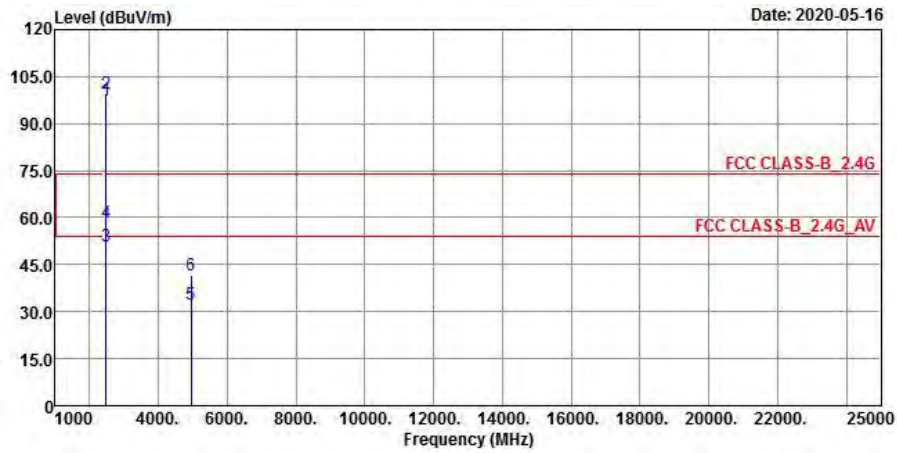
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2467 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 13	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

**Horizontal**



**Vertical**



Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	99.44	105.15	-5.71	-----	-----	248	309	Average
2472	101.77	107.48	-5.71	-----	-----	248	309	Peak
2483.5	52.06	57.76	-5.7	54	-1.94	248	309	Average
2483.5	59.54	65.24	-5.7	74	-14.46	248	309	Peak
4944	32.06	47.55	-15.49	54	-21.94	238	228	Average
4944	41.36	56.85	-15.49	74	-32.64	238	228	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	97.38	103.09	-5.71	-----	-----	345	226	Average
2472	99.8	105.51	-5.71	-----	-----	345	226	Peak
2483.5	50.87	56.57	-5.7	54	-3.13	345	226	Average
2483.5	58.52	64.22	-5.7	74	-15.48	345	226	Peak
4944	32.18	47.67	-15.49	54	-21.82	183	163	Average
4944	41.57	57.06	-15.49	74	-32.43	183	163	Peak

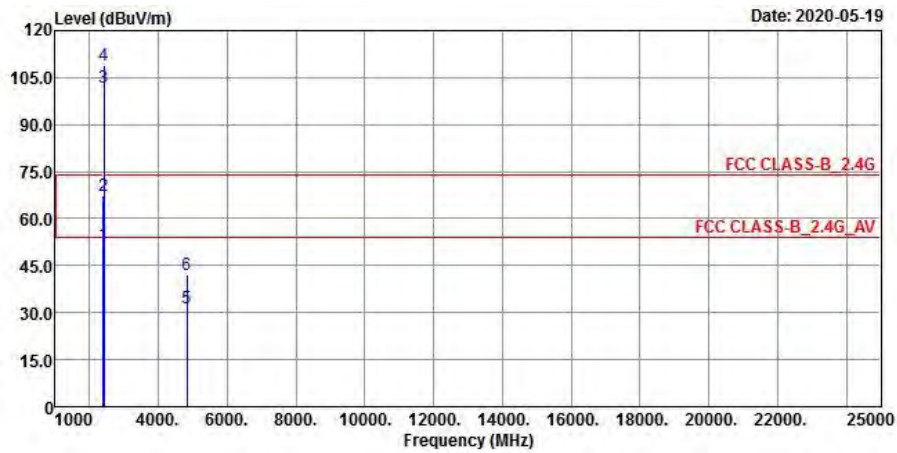
Remarks:

- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2472 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

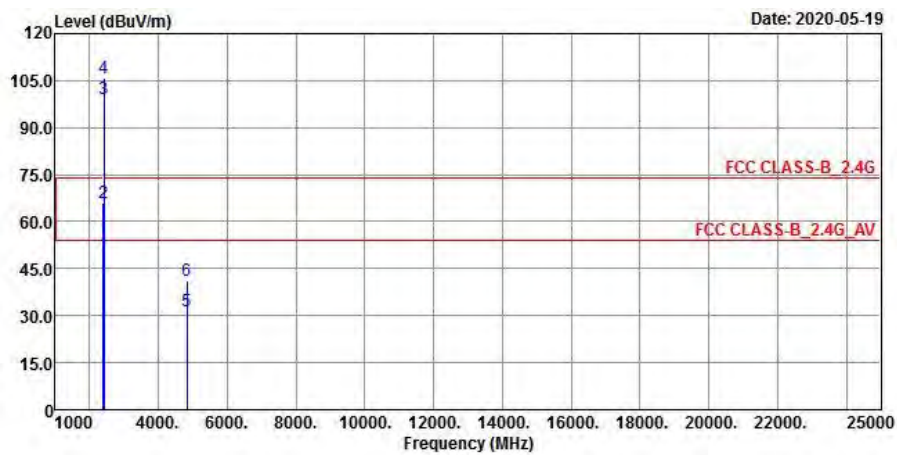
802.11g

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

Horizontal



Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.03	57.95	-5.92	54	-1.97	240	306	Average
2390	67.47	73.39	-5.92	74	-6.53	240	306	Peak
2412	101.96	107.91	-5.95	-----	-----	240	306	Average
2412	108.88	114.83	-5.95	-----	-----	240	306	Peak
4824	31.64	47.26	-15.62	54	-22.36	218	242	Average
4824	41.92	57.54	-15.62	74	-32.08	218	242	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

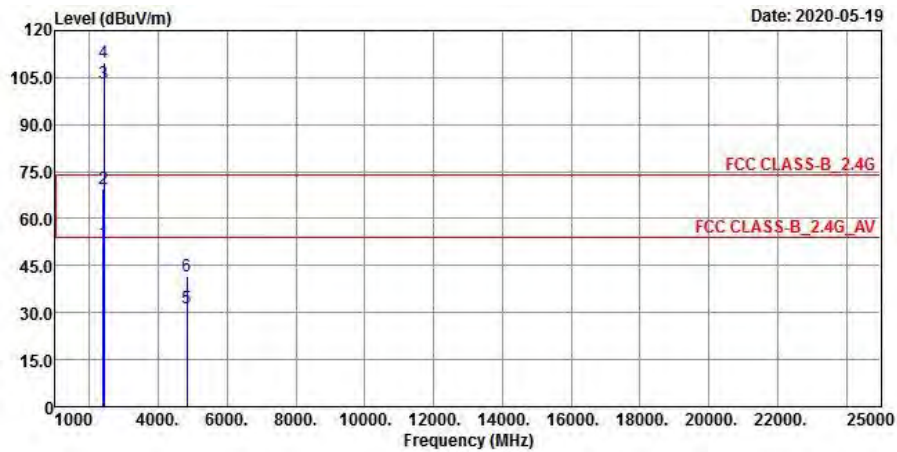
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	49.7	55.62	-5.92	54	-4.3	374	221	Average
2390	65.97	71.89	-5.92	74	-8.03	374	221	Peak
2412	99.08	105.03	-5.95	-----	-----	374	221	Average
2412	105.83	111.78	-5.95	-----	-----	374	221	Peak
4824	31.48	47.1	-15.62	54	-22.52	183	190	Average
4824	41.12	56.74	-15.62	74	-32.88	183	190	Peak

Remarks:

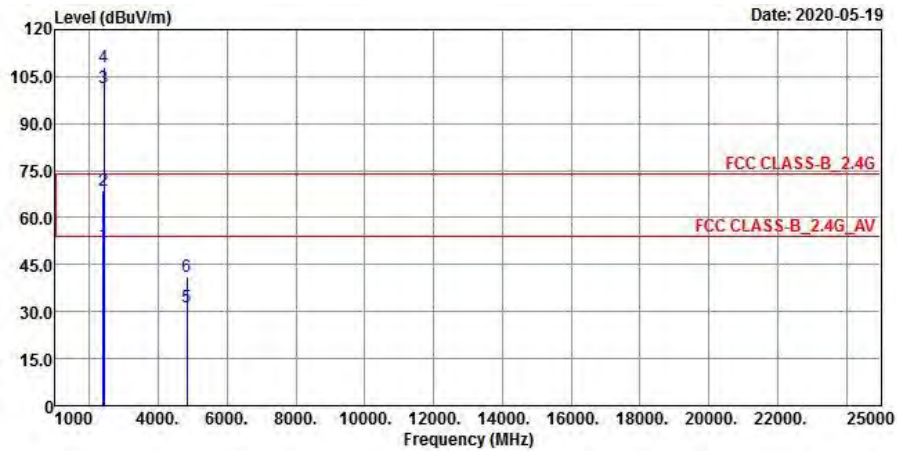
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2412 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 2	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.41	58.33	-5.92	54	-1.59	243	310	Average
2390	69.6	75.52	-5.92	74	-4.4	243	310	Peak
2417	103.31	109.19	-5.88	-----	-----	243	310	Average
2417	109.6	115.48	-5.88	-----	-----	243	310	Peak
4834	31.66	47.25	-15.59	54	-22.34	238	237	Average
4834	41.57	57.16	-15.59	74	-32.43	238	237	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

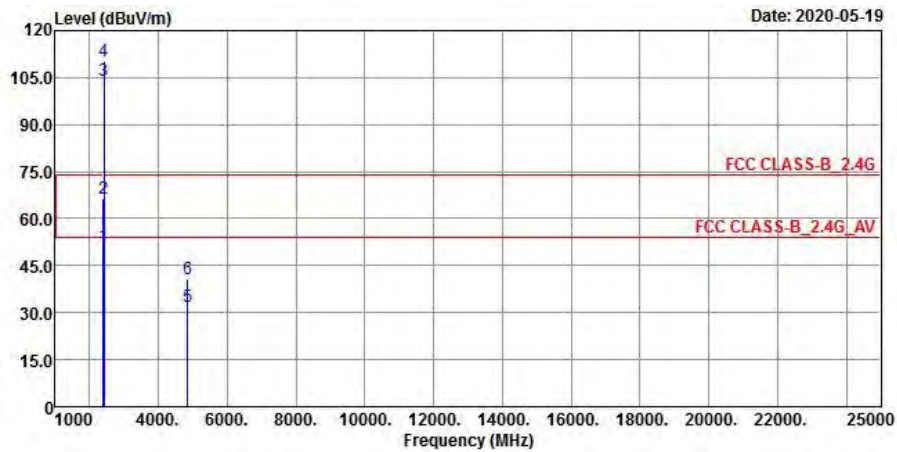
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	51.19	57.11	-5.92	54	-2.81	376	222	Average
2390	68.42	74.34	-5.92	74	-5.58	376	222	Peak
2417	101.19	107.07	-5.88	-----	-----	376	222	Average
2417	108.06	113.94	-5.88	-----	-----	376	222	Peak
4834	31.52	47.11	-15.59	54	-22.48	187	181	Average
4834	41.16	56.75	-15.59	74	-32.84	187	181	Peak

Remarks:

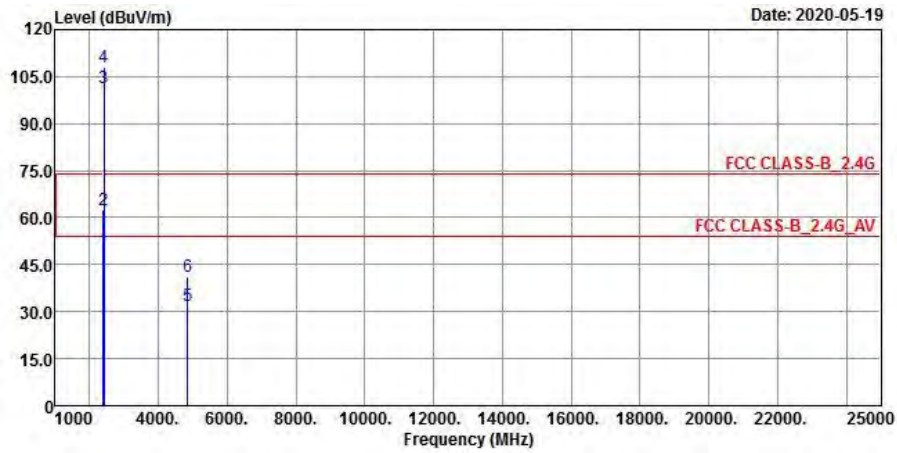
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2417 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical





**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	51.49	57.41	-5.92	54	-2.51	243	304	Average
2390	66.51	72.43	-5.92	74	-7.49	243	304	Peak
2422	103.93	109.81	-5.88	-----	-----	243	304	Average
2422	110.46	116.34	-5.88	-----	-----	243	304	Peak
4844	31.98	47.57	-15.59	54	-22.02	245	247	Average
4844	40.91	56.5	-15.59	74	-33.09	245	247	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

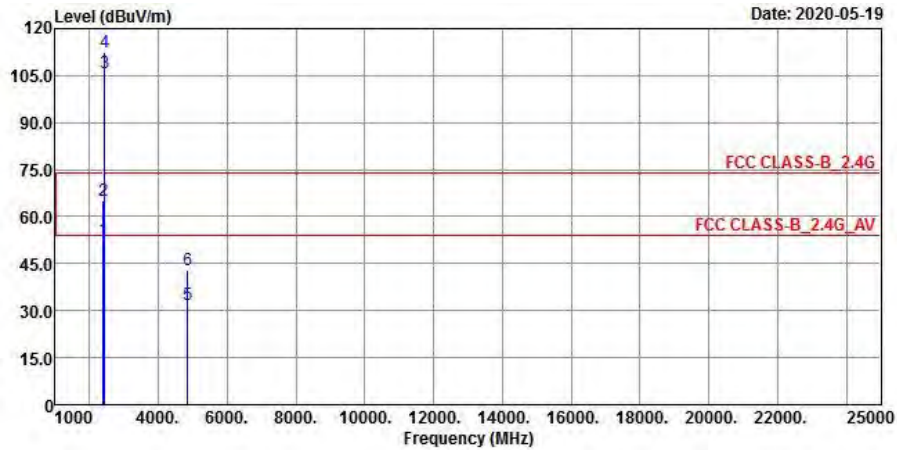
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	49.78	55.7	-5.92	54	-4.22	369	222	Average
2390	62.3	68.22	-5.92	74	-11.7	369	222	Peak
2422	101.26	107.14	-5.88	-----	-----	369	222	Average
2422	108.14	114.02	-5.88	-----	-----	369	222	Peak
4844	31.75	47.34	-15.59	54	-22.25	196	186	Average
4844	41.16	56.75	-15.59	74	-32.84	196	186	Peak

Remarks:

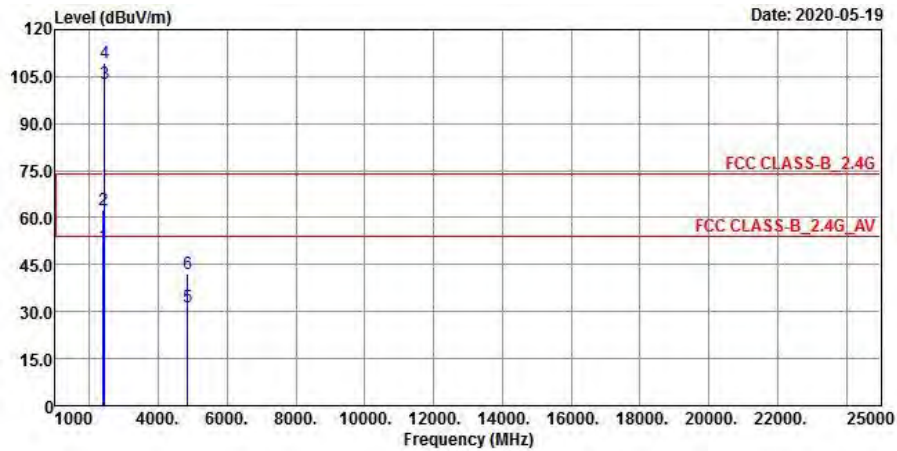
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2422 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 4	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

**Horizontal**



**Vertical**



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.48	58.4	-5.92	54	-1.52	245	304	Average
2390	65.11	71.03	-5.92	74	-8.89	245	304	Peak
2427	105.61	111.5	-5.89	-----	-----	245	304	Average
2427	112.47	118.36	-5.89	-----	-----	245	304	Peak
4854	31.88	47.45	-15.57	54	-22.12	223	207	Average
4854	43.16	58.73	-15.57	74	-30.84	223	207	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

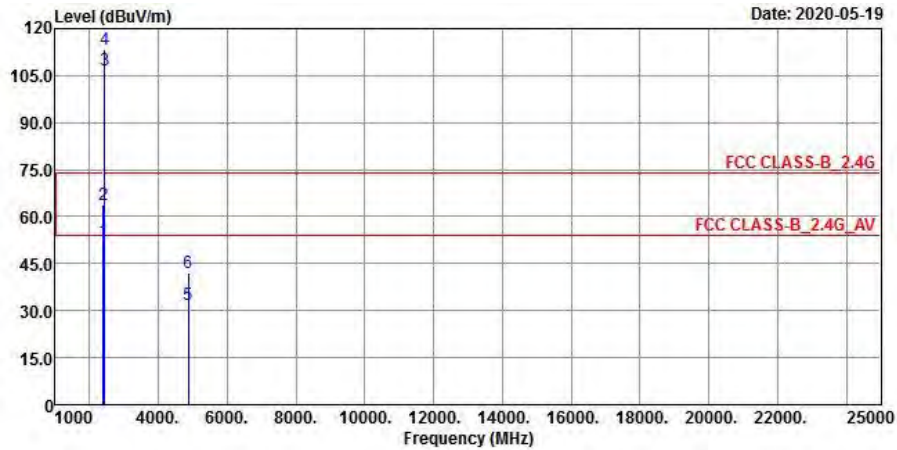
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	51.11	57.03	-5.92	54	-2.89	372	222	Average
2390	62.25	68.17	-5.92	74	-11.75	372	222	Peak
2427	102.91	108.8	-5.89	-----	-----	372	222	Average
2427	109.26	115.15	-5.89	-----	-----	372	222	Peak
4854	31.53	47.1	-15.57	54	-22.47	187	196	Average
4854	42.01	57.58	-15.57	74	-31.99	187	196	Peak

Remarks:

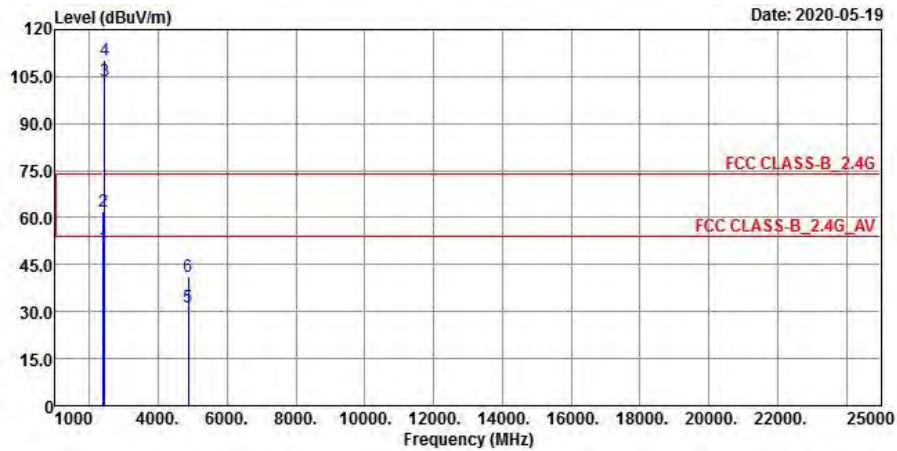
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2427 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 5	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.36	58.28	-5.92	54	-1.64	249	301	Average
2390	63.57	69.49	-5.92	74	-10.43	249	301	Peak
2432	106.89	112.78	-5.89	-----	-----	249	301	Average
2432	113.52	119.41	-5.89	-----	-----	249	301	Peak
4864	32.01	47.59	-15.58	54	-21.99	206	219	Average
4864	42.1	57.68	-15.58	74	-31.9	206	219	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

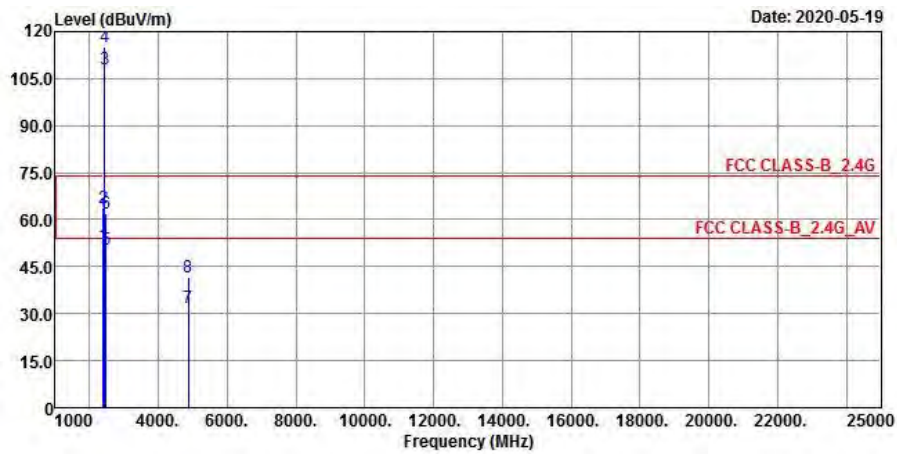
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	50.55	56.47	-5.92	54	-3.45	370	222	Average
2390	62.05	67.97	-5.92	74	-11.95	370	222	Peak
2432	103.61	109.5	-5.89	-----	-----	370	222	Average
2432	110.43	116.32	-5.89	-----	-----	370	222	Peak
4864	31.64	47.22	-15.58	54	-22.36	196	185	Average
4864	41.38	56.96	-15.58	74	-32.62	196	185	Peak

Remarks:

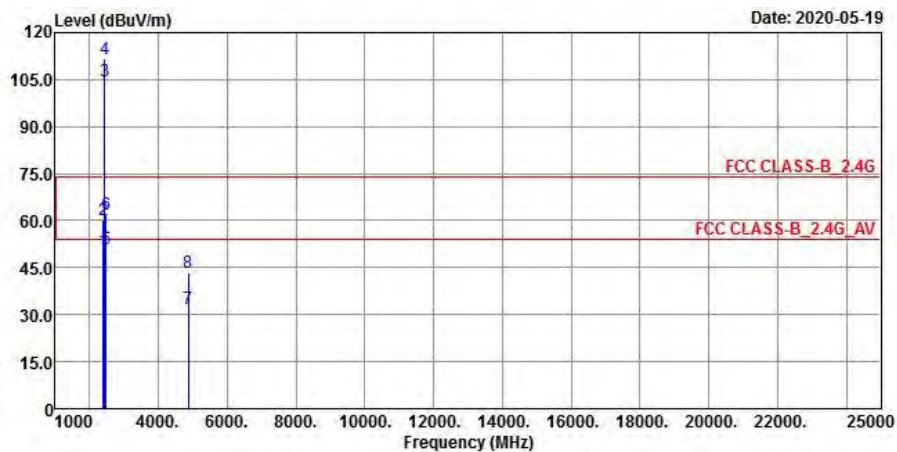
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2432 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	51.67	57.59	-5.92	54	-2.33	251	310	Average
2390	63.67	69.59	-5.92	74	-10.33	251	310	Peak
2437	108.19	114.08	-5.89	-----	-----	251	310	Average
2437	115.05	120.94	-5.89	-----	-----	251	310	Peak
2483.5	50.52	56.22	-5.7	54	-3.48	251	310	Average
2483.5	61.88	67.58	-5.7	74	-12.12	251	310	Peak
4874	32.05	47.61	-15.56	54	-21.95	219	226	Average
4874	41.6	57.16	-15.56	74	-32.4	219	226	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

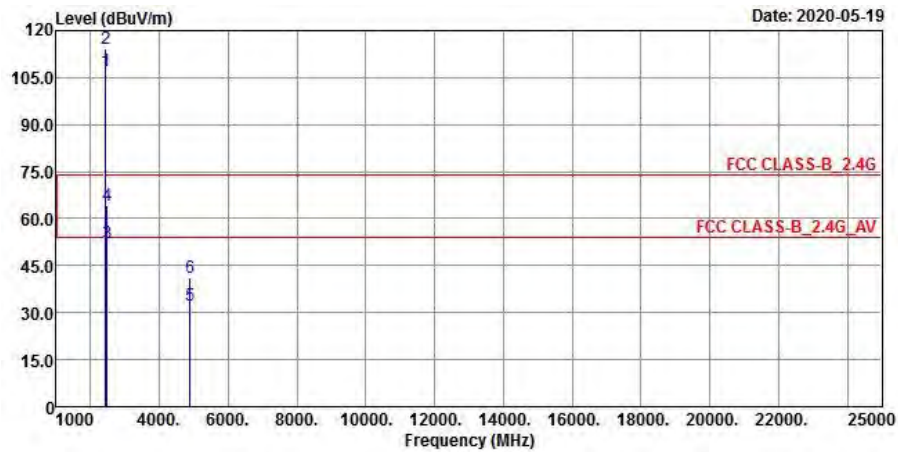
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	50.39	56.31	-5.92	54	-3.61	340	230	Average
2390	60.16	66.08	-5.92	74	-13.84	340	230	Peak
2437	104.35	110.24	-5.89	-----	-----	340	230	Average
2437	111.67	117.56	-5.89	-----	-----	340	230	Peak
2483.5	50.92	56.62	-5.7	54	-3.08	340	230	Average
2483.5	62.07	67.77	-5.7	74	-11.93	340	230	Peak
4874	31.81	47.37	-15.56	54	-22.19	198	180	Average
4874	43.18	58.74	-15.56	74	-30.82	198	180	Peak

Remarks:

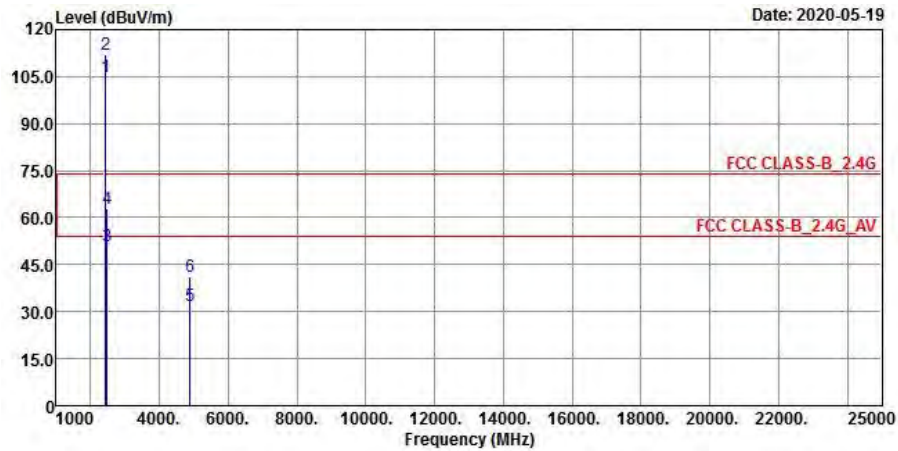
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2437 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 7	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical





**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2442	107.32	113.14	-5.82	-----	-----	252	301	Average
2442	114.07	119.89	-5.82	-----	-----	252	301	Peak
2483.5	52.05	57.75	-5.7	54	-1.95	252	301	Average
2483.5	64.15	69.85	-5.7	74	-9.85	252	301	Peak
4884	32.16	47.71	-15.55	54	-21.84	211	218	Average
4884	41.03	56.58	-15.55	74	-32.97	211	218	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

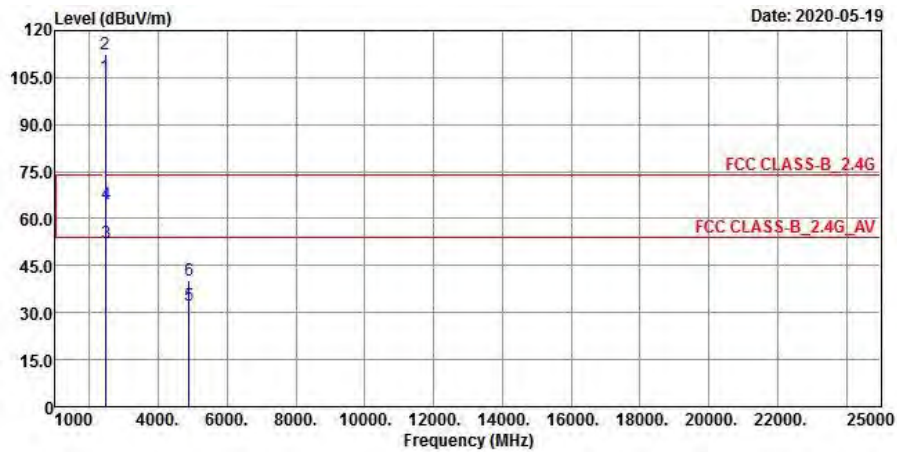
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2442	104.83	110.65	-5.82	-----	-----	360	227	Average
2442	112.08	117.9	-5.82	-----	-----	360	227	Peak
2483.5	51.05	56.75	-5.7	54	-2.95	360	227	Average
2483.5	62.66	68.36	-5.7	74	-11.34	360	227	Peak
4884	31.82	47.37	-15.55	54	-22.18	196	192	Average
4884	41.15	56.7	-15.55	74	-32.85	196	192	Peak

Remarks:

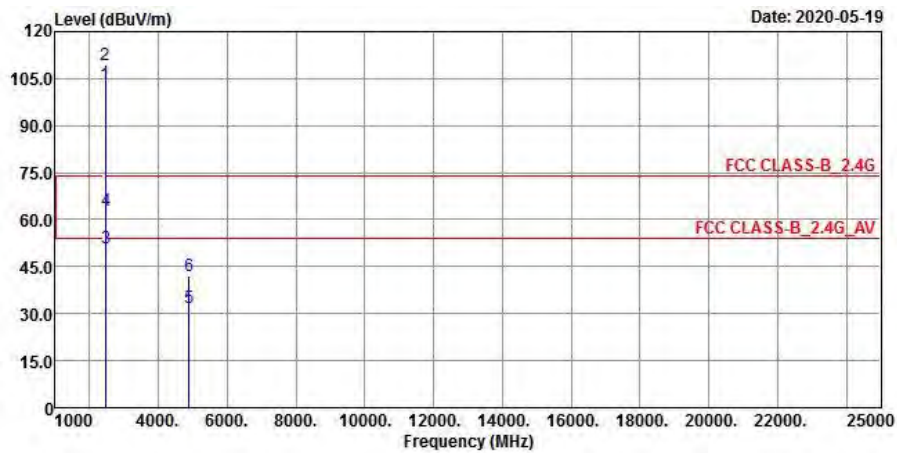
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2442 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 8	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



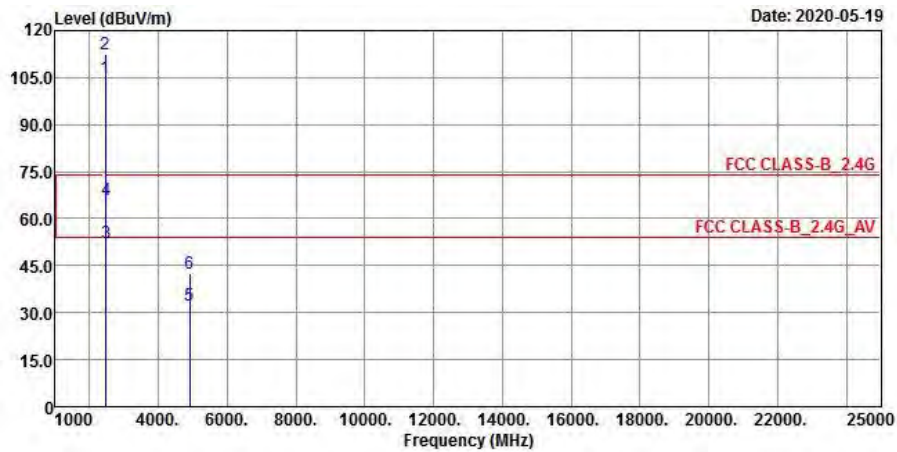
Antenna Polarity & Test Distance: Horizontal at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2447	105.57	111.39	-5.82	-----	-----	244	302	Average
2447	112.47	118.29	-5.82	-----	-----	244	302	Peak
2483.5	52.42	58.12	-5.7	54	-1.58	244	302	Average
2483.5	64.81	70.51	-5.7	74	-9.19	244	302	Peak
4894	32.15	47.7	-15.55	54	-21.85	205	223	Average
4894	40.47	56.02	-15.55	74	-33.53	205	223	Peak
Antenna Polarity & Test Distance: Vertical at 3 m								
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2447	103.01	108.83	-5.82	-----	-----	362	224	Average
2447	109.41	115.23	-5.82	-----	-----	362	224	Peak
2483.5	50.76	56.46	-5.7	54	-3.24	362	224	Average
2483.5	62.72	68.42	-5.7	74	-11.28	362	224	Peak
4894	31.88	47.43	-15.55	54	-22.12	186	185	Average
4894	42.05	57.6	-15.55	74	-31.95	186	185	Peak

Remarks:

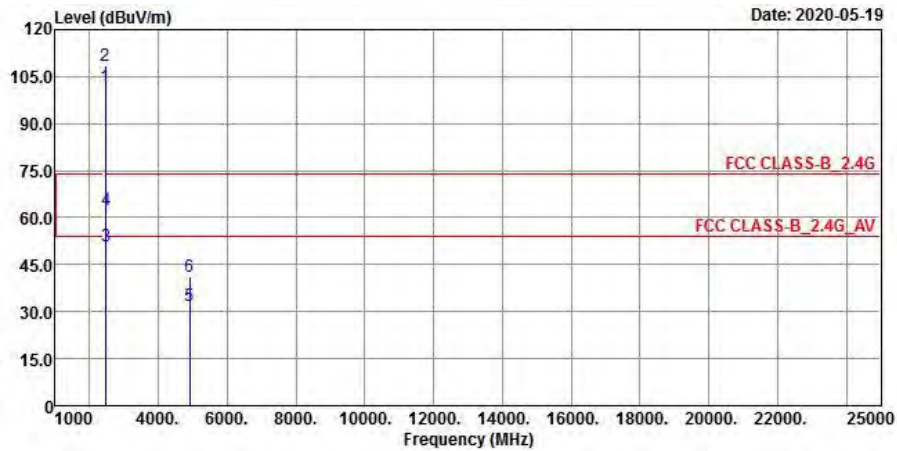
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2447 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 9	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2452	104.74	110.56	-5.82	-----	-----	243	300	Average
2452	112.42	118.24	-5.82	-----	-----	243	300	Peak
2483.5	52.41	58.11	-5.7	54	-1.59	243	300	Average
2483.5	65.95	71.65	-5.7	74	-8.05	243	300	Peak
4904	32.2	47.75	-15.55	54	-21.8	221	210	Average
4904	42.36	57.91	-15.55	74	-31.64	221	210	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

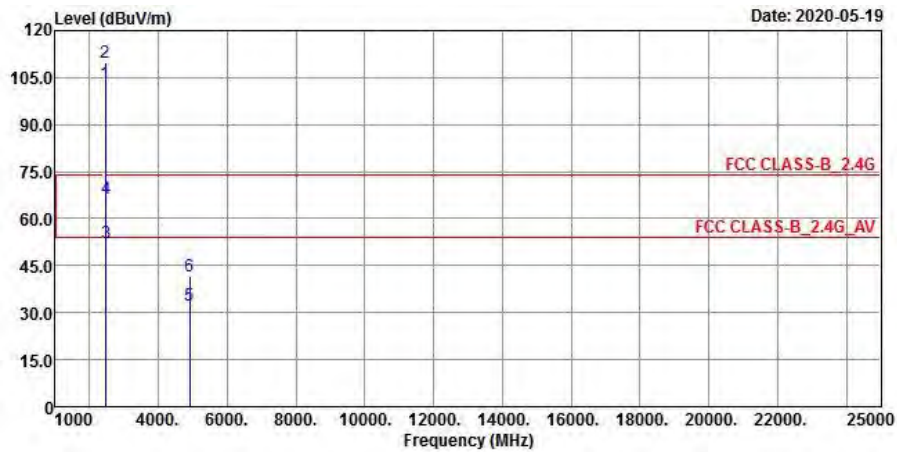
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2452	101.86	107.68	-5.82	-----	-----	363	223	Average
2452	108.29	114.11	-5.82	-----	-----	363	223	Peak
2483.5	50.79	56.49	-5.7	54	-3.21	363	223	Average
2483.5	62.58	68.28	-5.7	74	-11.42	363	223	Peak
4904	32.1	47.65	-15.55	54	-21.9	204	190	Average
4904	41.34	56.89	-15.55	74	-32.66	204	190	Peak

Remarks:

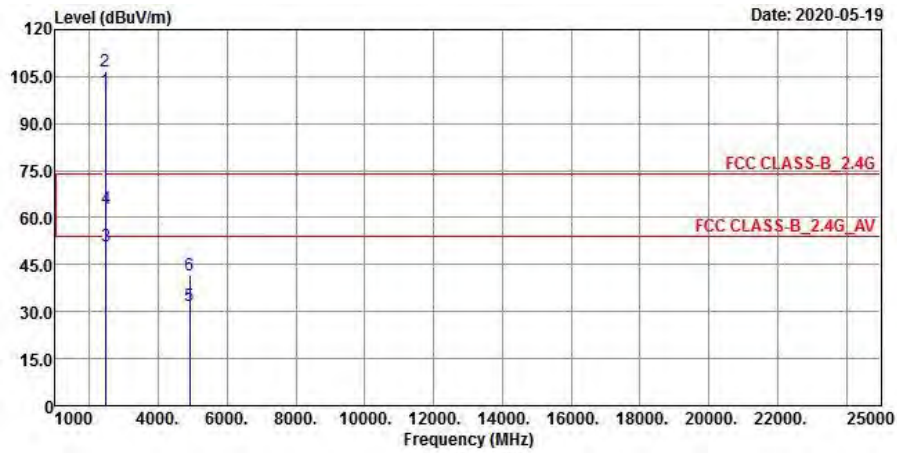
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2452 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 10	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

**Horizontal**



**Vertical**



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	103.21	109.02	-5.81	-----	-----	244	300	Average
2457	110.03	115.84	-5.81	-----	-----	244	300	Peak
2483.5	52.35	58.05	-5.7	54	-1.65	244	300	Average
2483.5	66.58	72.28	-5.7	74	-7.42	244	300	Peak
4914	32.23	47.76	-15.53	54	-21.77	210	230	Average
4914	41.52	57.05	-15.53	74	-32.48	210	230	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

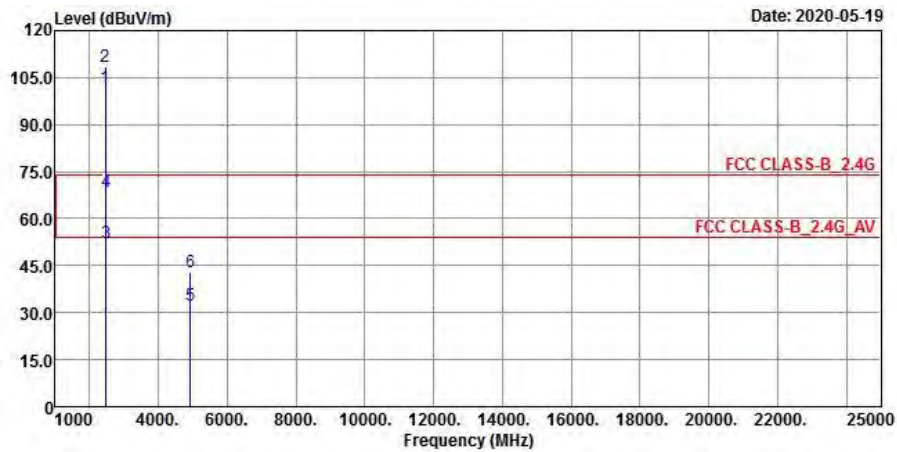
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	100.37	106.18	-5.81	-----	-----	364	222	Average
2457	106.7	112.51	-5.81	-----	-----	364	222	Peak
2483.5	50.97	56.67	-5.7	54	-3.03	364	222	Average
2483.5	62.8	68.5	-5.7	74	-11.2	364	222	Peak
4914	32.05	47.58	-15.53	54	-21.95	190	207	Average
4914	41.5	57.03	-15.53	74	-32.5	190	207	Peak

## Remarks:

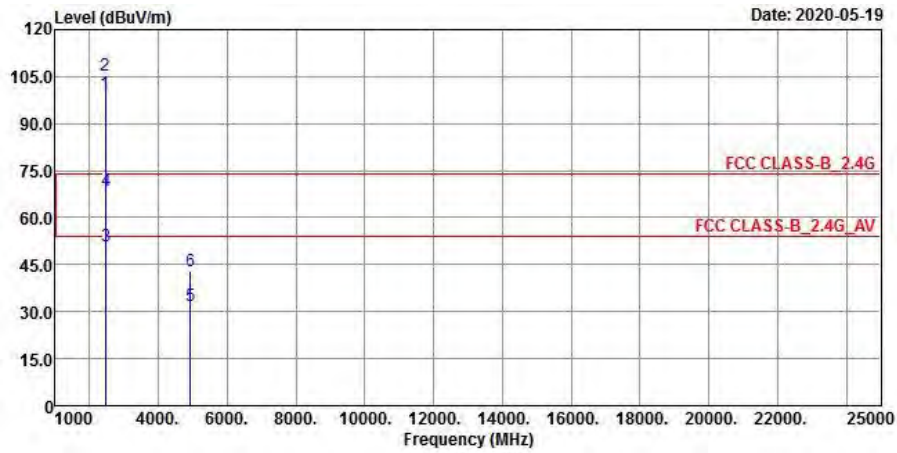
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2457 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

**Horizontal**



**Vertical**





**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	102.04	107.85	-5.81	-----	-----	247	303	Average
2462	108.34	114.15	-5.81	-----	-----	247	303	Peak
2483.5	52.16	57.86	-5.7	54	-1.84	247	303	Average
2483.5	68.62	74.32	-5.7	74	-5.38	247	303	Peak
4924	32.3	47.81	-15.51	54	-21.7	224	219	Average
4924	42.88	58.39	-15.51	74	-31.12	224	219	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

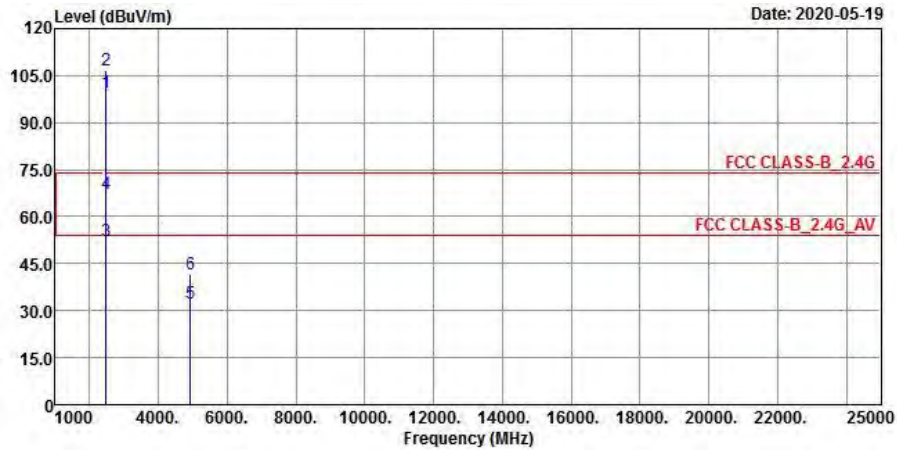
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	99.43	105.24	-5.81	-----	-----	359	220	Average
2462	105.5	111.31	-5.81	-----	-----	359	220	Peak
2483.5	51.09	56.79	-5.7	54	-2.91	359	220	Average
2483.5	68.48	74.18	-5.7	74	-5.52	359	220	Peak
4924	32.1	47.61	-15.51	54	-21.9	192	192	Average
4924	42.89	58.4	-15.51	74	-31.11	192	192	Peak

Remarks:

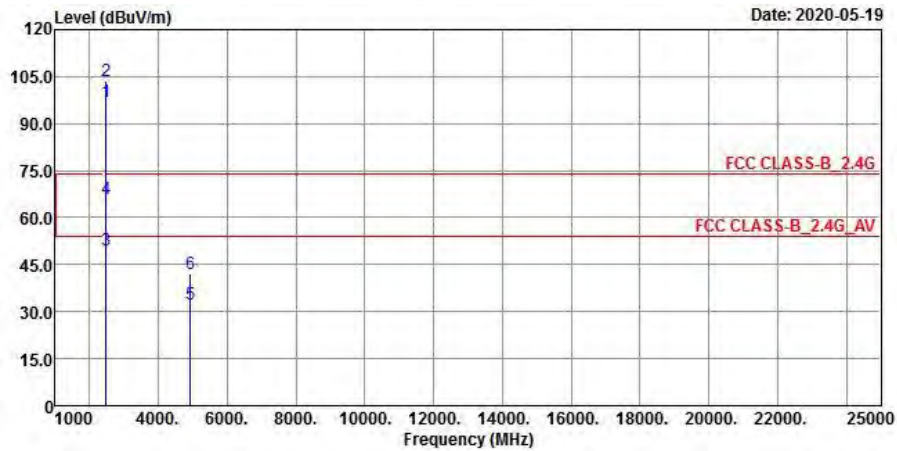
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2462 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 12	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	99.62	105.34	-5.72	-----	-----	237	303	Average
2467	106.62	112.34	-5.72	-----	-----	237	303	Peak
2483.5	52.09	57.79	-5.7	54	-1.91	237	303	Average
2483.5	67.21	72.91	-5.7	74	-6.79	237	303	Peak
4934	32.32	47.83	-15.51	54	-21.68	208	233	Average
4934	41.55	57.06	-15.51	74	-32.45	208	233	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

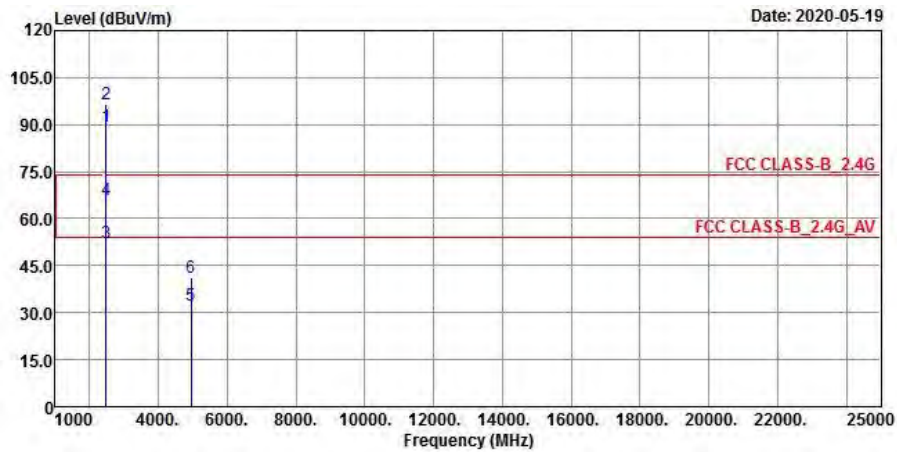
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	97	102.72	-5.72	-----	-----	359	222	Average
2467	103.75	109.47	-5.72	-----	-----	359	222	Peak
2483.5	49.39	55.09	-5.7	54	-4.61	359	222	Average
2483.5	65.97	71.67	-5.7	74	-8.03	359	222	Peak
4934	32.13	47.64	-15.51	54	-21.87	196	186	Average
4934	41.91	57.42	-15.51	74	-32.09	196	186	Peak

Remarks:

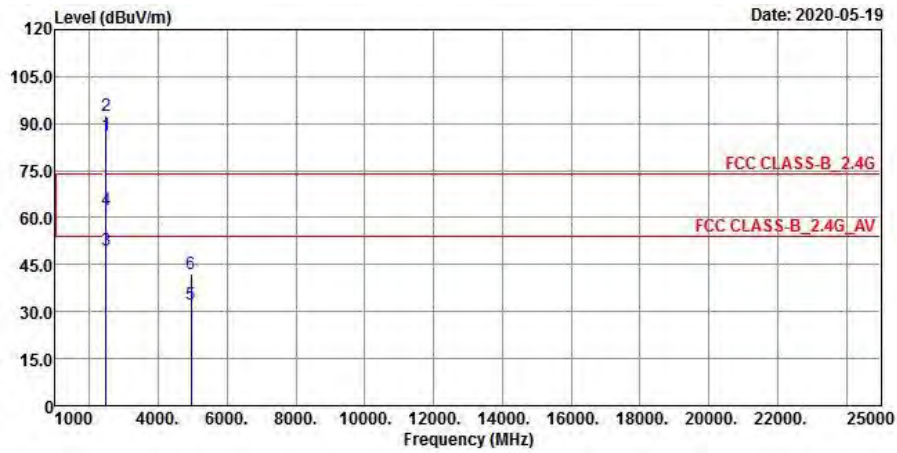
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2467 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 13	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	89.46	95.17	-5.71	-----	-----	222	307	Average
2472	96.75	102.46	-5.71	-----	-----	222	307	Peak
2483.5	52.04	57.74	-5.7	54	-1.96	222	307	Average
2483.5	66.12	71.82	-5.7	74	-7.88	222	307	Peak
4944	32.42	47.91	-15.49	54	-21.58	226	219	Average
4944	41.12	56.61	-15.49	74	-32.88	226	219	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	86.41	92.12	-5.71	-----	-----	352	226	Average
2472	92.66	98.37	-5.71	-----	-----	352	226	Peak
2483.5	49.49	55.19	-5.7	54	-4.51	352	226	Average
2483.5	62.36	68.06	-5.7	74	-11.64	352	226	Peak
4944	32.2	47.69	-15.49	54	-21.8	183	180	Average
4944	42.01	57.5	-15.49	74	-31.99	183	180	Peak

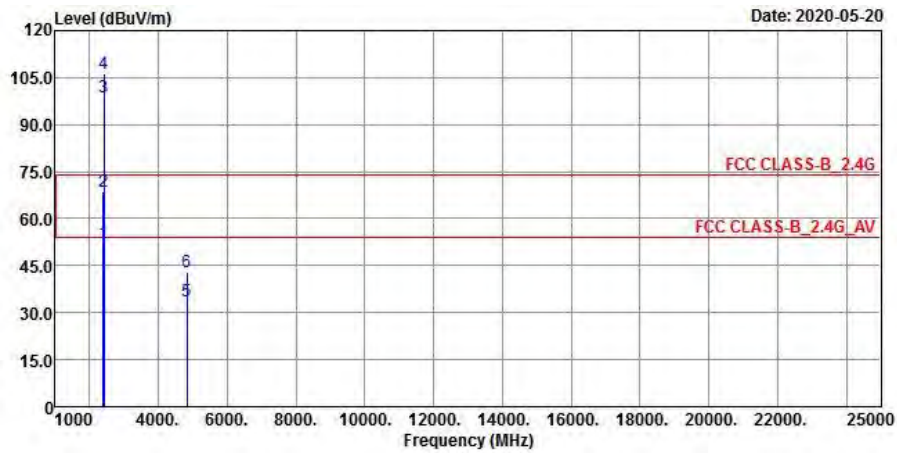
Remarks:

- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2472 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

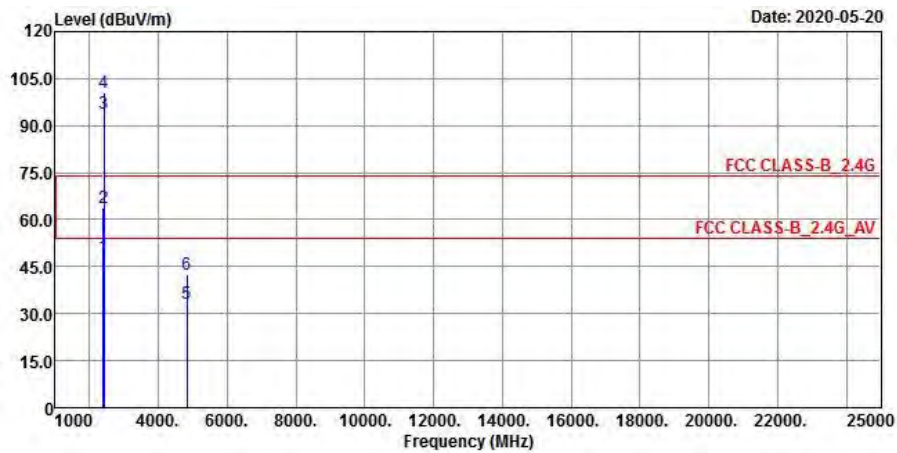
802.11n (HT20)

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Tim Chen

Horizontal



Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.45	58.37	-5.92	54	-1.55	192	260	Average
2390	68.83	74.75	-5.92	74	-5.17	192	260	Peak
2412	98.95	104.9	-5.95	-----	-----	192	260	Average
2412	106.23	112.18	-5.95	-----	-----	192	260	Peak
4824	33.53	49.15	-15.62	54	-20.47	163	102	Average
4824	42.88	58.5	-15.62	74	-31.12	163	102	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

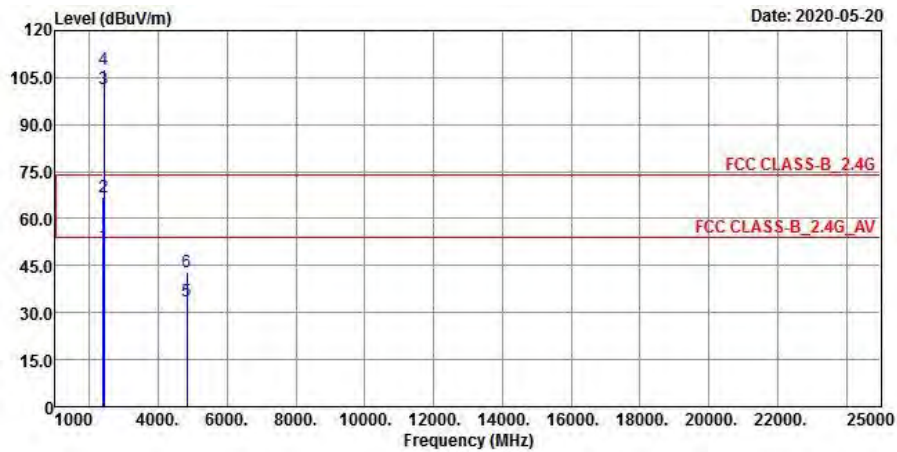
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	48.38	54.3	-5.92	54	-5.62	121	1	Average
2390	63.72	69.64	-5.92	74	-10.28	121	1	Peak
2412	93.78	99.73	-5.95	-----	-----	121	1	Average
2412	100.64	106.59	-5.95	-----	-----	121	1	Peak
4824	33.02	48.64	-15.62	54	-20.98	106	224	Average
4824	42.32	57.94	-15.62	74	-31.68	106	224	Peak

Remarks:

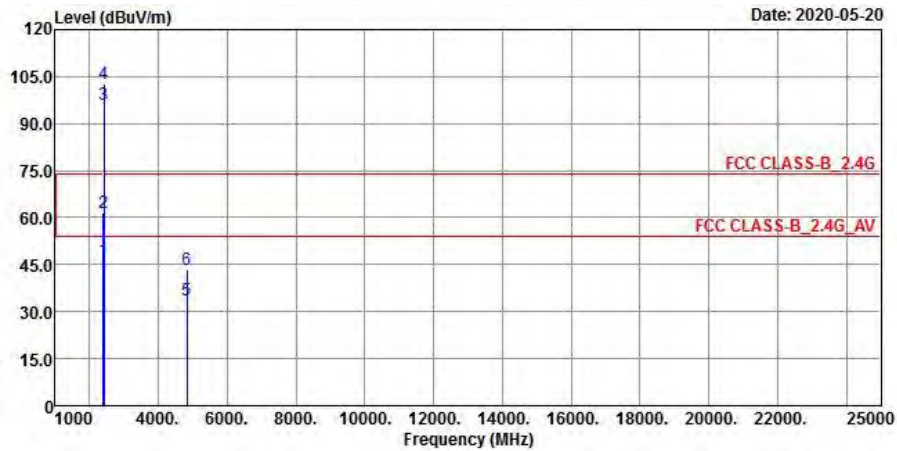
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2412 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 2	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

**Horizontal**



**Vertical**





**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	51.58	57.5	-5.92	54	-2.42	124	136	Average
2390	66.95	72.87	-5.92	74	-7.05	124	136	Peak
2417	101.49	107.37	-5.88	-----	-----	124	136	Average
2417	107.76	113.64	-5.88	-----	-----	124	136	Peak
4834	33.79	49.38	-15.59	54	-20.21	211	237	Average
4834	42.77	58.36	-15.59	74	-31.23	211	237	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

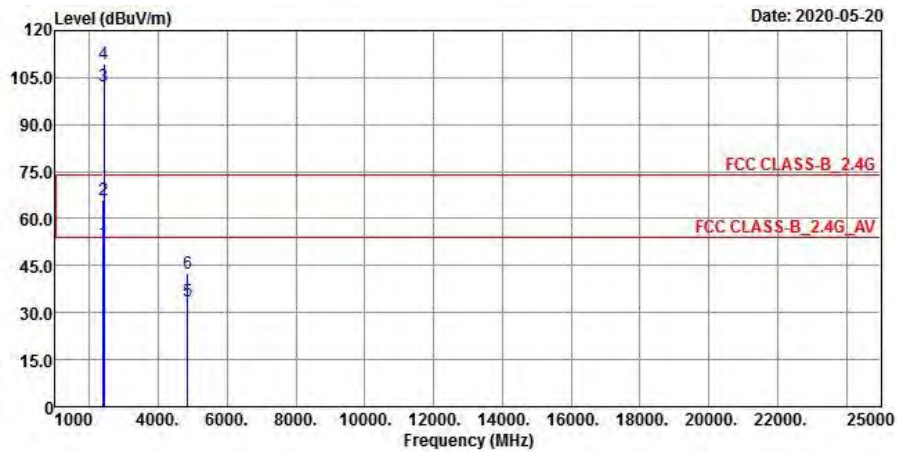
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	46.56	52.48	-5.92	54	-7.44	100	17	Average
2390	61.57	67.49	-5.92	74	-12.43	100	17	Peak
2417	96.06	101.94	-5.88	-----	-----	100	17	Average
2417	102.64	108.52	-5.88	-----	-----	100	17	Peak
4834	33.53	49.12	-15.59	54	-20.47	191	188	Average
4834	43.44	59.03	-15.59	74	-30.56	191	188	Peak

Remarks:

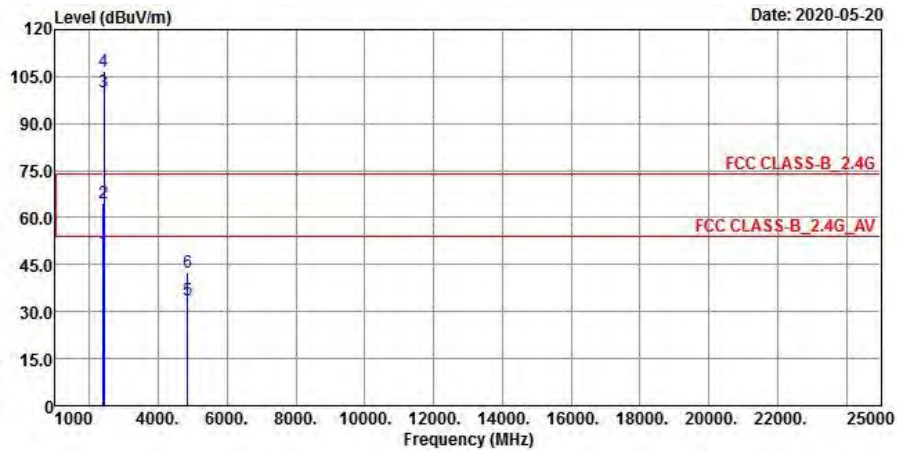
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2417 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 3	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.37	58.29	-5.92	54	-1.63	122	138	Average
2390	66.19	72.11	-5.92	74	-7.81	122	138	Peak
2422	102.21	108.09	-5.88	-----	-----	122	138	Average
2422	109.42	115.3	-5.88	-----	-----	122	138	Peak
4844	33.79	49.38	-15.59	54	-20.21	218	230	Average
4844	42.56	58.15	-15.59	74	-31.44	218	230	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

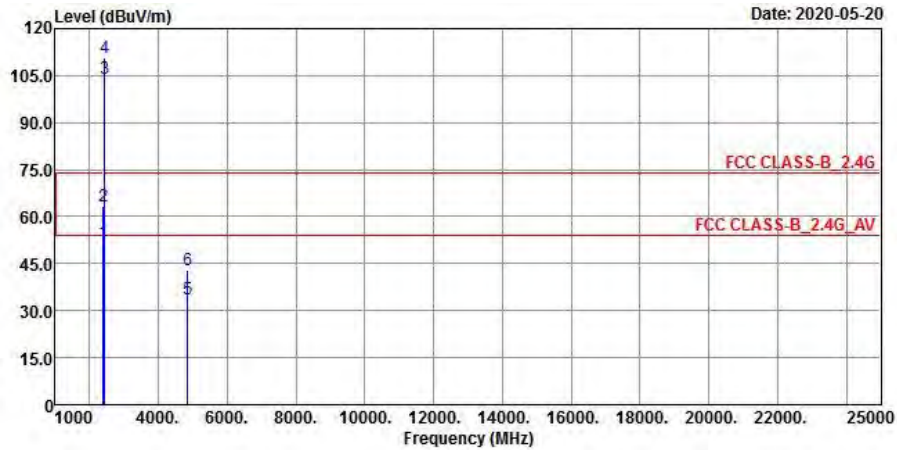
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	49.31	55.23	-5.92	54	-4.69	323	346	Average
2390	64.5	70.42	-5.92	74	-9.5	323	346	Peak
2422	99.97	105.85	-5.88	-----	-----	323	346	Average
2422	106.66	112.54	-5.88	-----	-----	323	346	Peak
4844	33.63	49.22	-15.59	54	-20.37	204	203	Average
4844	42.63	58.22	-15.59	74	-31.37	204	203	Peak

Remarks:

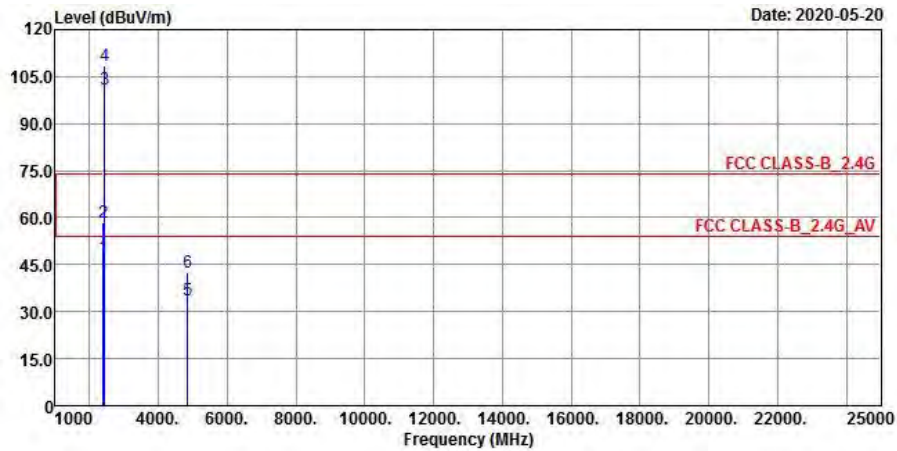
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2422 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 4	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

**Horizontal**



**Vertical**



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	51.98	57.9	-5.92	54	-2.02	111	261	Average
2390	63.1	69.02	-5.92	74	-10.9	111	261	Peak
2427	104.18	110.07	-5.89	-----	-----	111	261	Average
2427	110.58	116.47	-5.89	-----	-----	111	261	Peak
4854	33.85	49.42	-15.57	54	-20.15	216	213	Average
4854	42.93	58.5	-15.57	74	-31.07	216	213	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

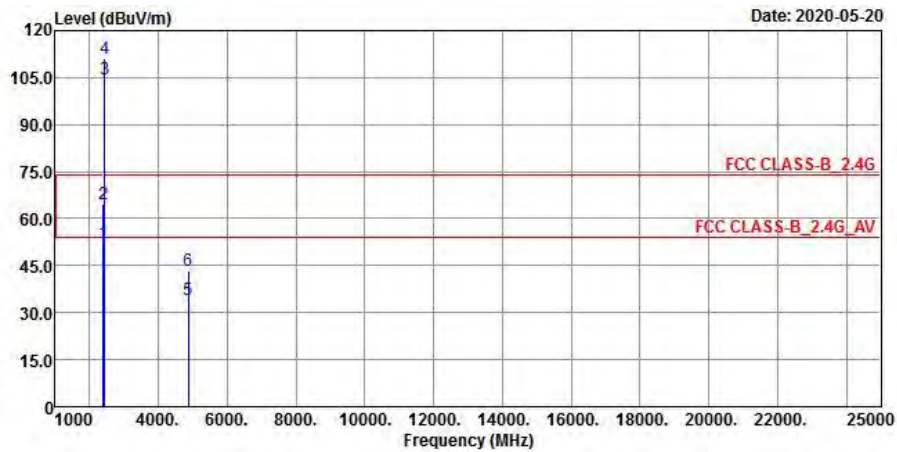
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	47.55	53.47	-5.92	54	-6.45	319	347	Average
2390	58.54	64.46	-5.92	74	-15.46	319	347	Peak
2427	100.93	106.82	-5.89	-----	-----	319	347	Average
2427	108.3	114.19	-5.89	-----	-----	319	347	Peak
4854	33.67	49.24	-15.57	54	-20.33	190	192	Average
4854	42.37	57.94	-15.57	74	-31.63	190	192	Peak

Remarks:

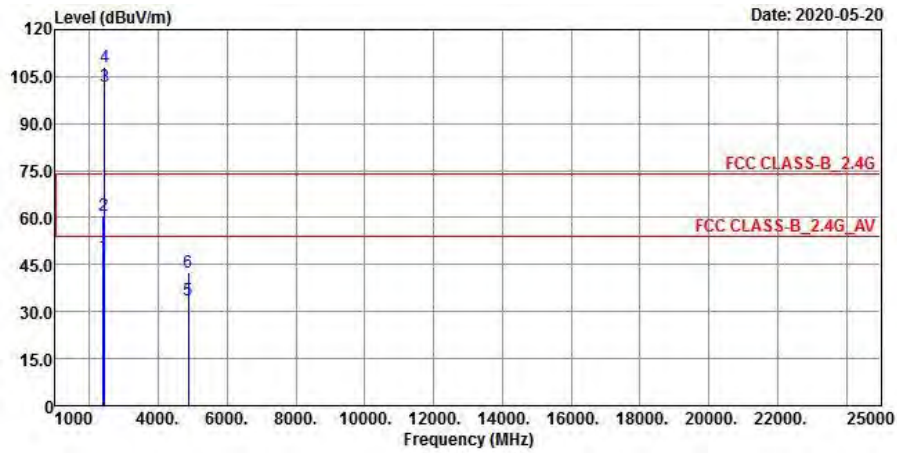
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2427 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 5	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	52.4	58.32	-5.92	54	-1.6	108	261	Average
2390	64.48	70.4	-5.92	74	-9.52	108	261	Peak
2432	104.67	110.56	-5.89	-----	-----	108	261	Average
2432	111.18	117.07	-5.89	-----	-----	108	261	Peak
4864	33.96	49.54	-15.58	54	-20.04	221	205	Average
4864	43.52	59.1	-15.58	74	-30.48	221	205	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

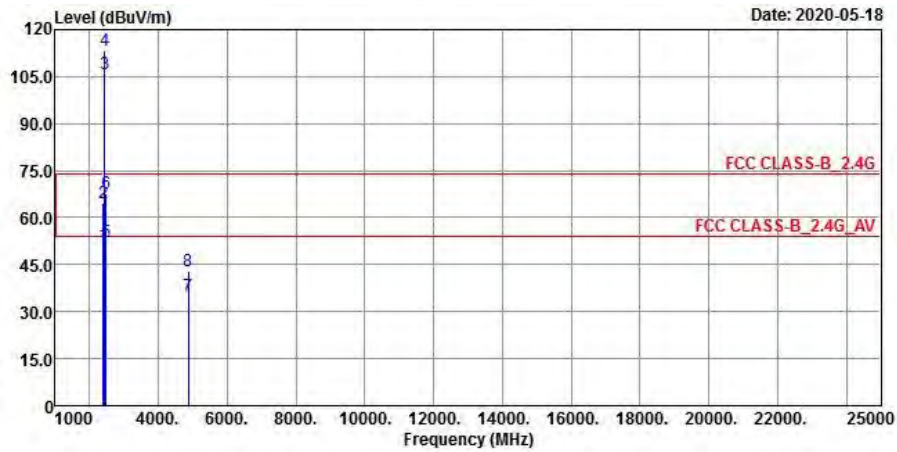
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	47.83	53.75	-5.92	54	-6.17	321	348	Average
2390	60.69	66.61	-5.92	74	-13.31	321	348	Peak
2432	101.76	107.65	-5.89	-----	-----	321	348	Average
2432	107.97	113.86	-5.89	-----	-----	321	348	Peak
4864	33.72	49.3	-15.58	54	-20.28	194	189	Average
4864	42.67	58.25	-15.58	74	-31.33	194	189	Peak

Remarks:

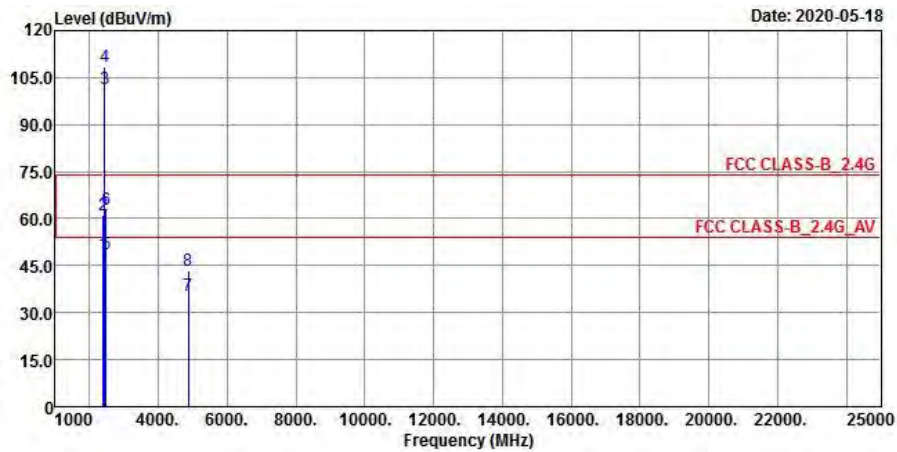
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2432 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 6	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Tim Chen

**Horizontal**



**Vertical**





**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	51.42	57.34	-5.92	54	-2.58	211	119	Average
2390	64.79	70.71	-5.92	74	-9.21	211	119	Peak
2437	105.8	111.69	-5.89	-----	-----	211	119	Average
2437	113.3	119.19	-5.89	-----	-----	211	119	Peak
2483.5	52.23	57.93	-5.7	54	-1.77	211	119	Average
2483.5	67.82	73.52	-5.7	74	-6.18	211	119	Peak
4874	34.76	50.32	-15.56	54	-19.24	167	241	Average
4874	42.95	58.51	-15.56	74	-31.05	167	241	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

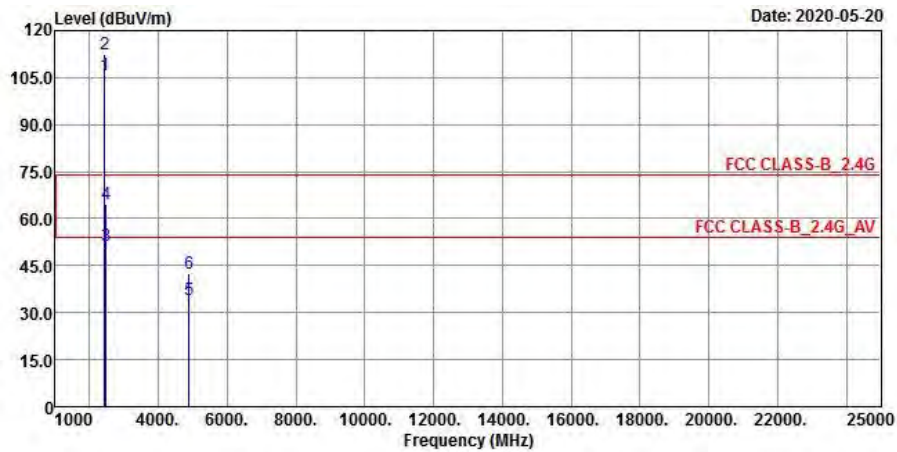
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2390	48.74	54.66	-5.92	54	-5.26	400	5	Average
2390	60.99	66.91	-5.92	74	-13.01	400	5	Peak
2437	101.22	107.1	-5.88	-----	-----	400	5	Average
2437	108.35	114.23	-5.88	-----	-----	400	5	Peak
2483.5	48.74	54.44	-5.7	54	-5.26	400	5	Average
2483.5	63.08	68.78	-5.7	74	-10.92	400	5	Peak
4874	35.57	51.13	-15.56	54	-18.43	158	22	Average
4874	43.57	59.13	-15.56	74	-30.43	158	22	Peak

Remarks:

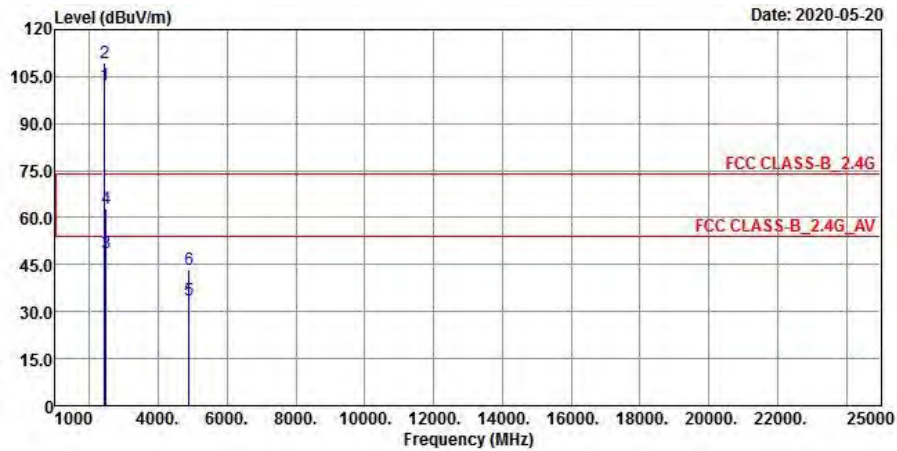
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2437 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 7	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2442	105.69	111.51	-5.82	-----	-----	112	262	Average
2442	112.36	118.18	-5.82	-----	-----	112	262	Peak
2483.5	51.57	57.27	-5.7	54	-2.43	112	262	Average
2483.5	64.58	70.28	-5.7	74	-9.42	112	262	Peak
4884	34.03	49.58	-15.55	54	-19.97	232	201	Average
4884	42.68	58.23	-15.55	74	-31.32	232	201	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

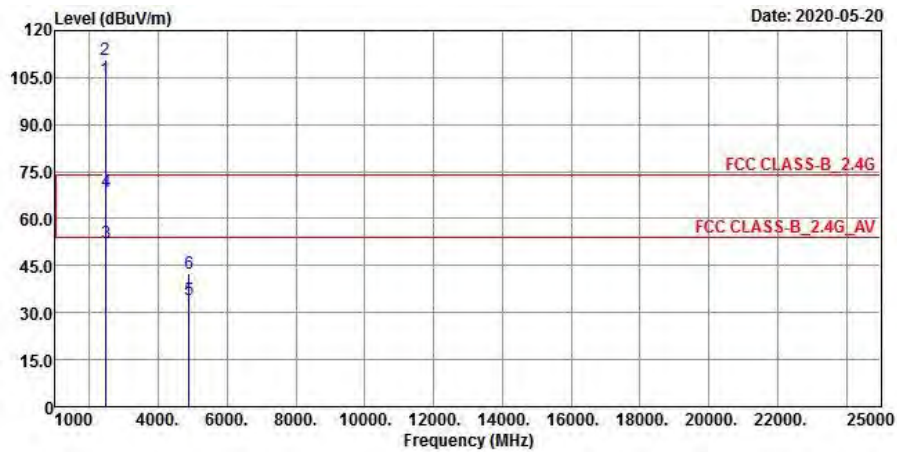
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2442	102.3	108.12	-5.82	-----	-----	310	346	Average
2442	109.19	115.01	-5.82	-----	-----	310	346	Peak
2483.5	48.83	54.53	-5.7	54	-5.17	310	346	Average
2483.5	62.9	68.6	-5.7	74	-11.1	310	346	Peak
4884	33.72	49.27	-15.55	54	-20.28	192	206	Average
4884	43.45	59	-15.55	74	-30.55	192	206	Peak

Remarks:

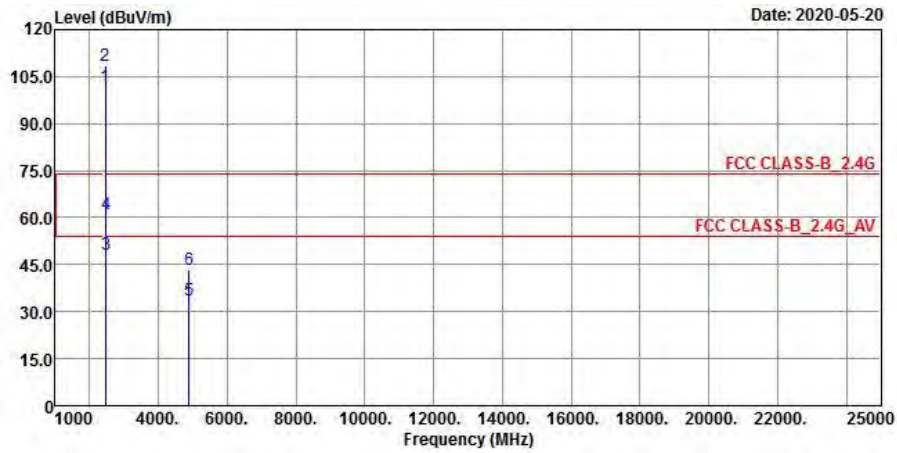
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2422 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 8	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2447	104.36	110.18	-5.82	-----	-----	108	263	Average
2447	110.62	116.44	-5.82	-----	-----	108	263	Peak
2483.5	52.33	58.03	-5.7	54	-1.67	108	263	Average
2483.5	68.63	74.33	-5.7	74	-5.37	108	263	Peak
4894	34.1	49.65	-15.55	54	-19.9	219	247	Average
4894	42.32	57.87	-15.55	74	-31.68	219	247	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

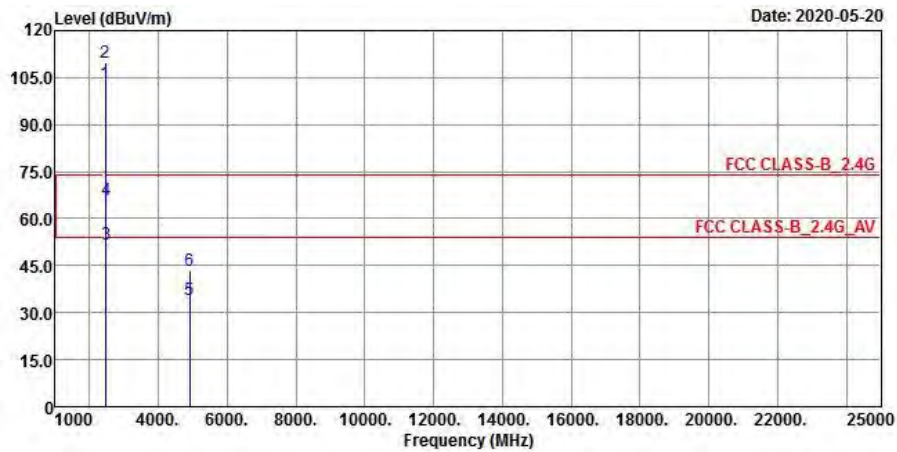
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2447	101.63	107.45	-5.82	-----	-----	312	346	Average
2447	108.6	114.42	-5.82	-----	-----	312	346	Peak
2483.5	48.1	53.8	-5.7	54	-5.9	312	346	Average
2483.5	61.27	66.97	-5.7	74	-12.73	312	346	Peak
4894	33.82	49.37	-15.55	54	-20.18	184	193	Average
4894	43.39	58.94	-15.55	74	-30.61	184	193	Peak

Remarks:

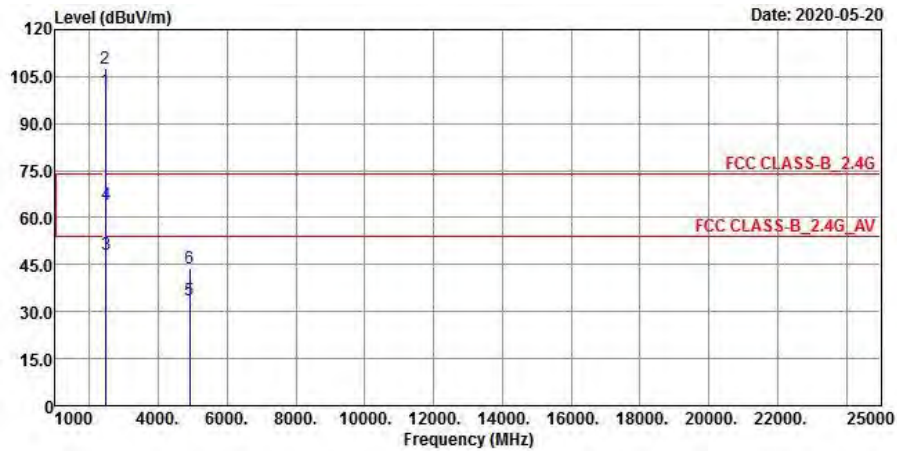
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2447 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 9	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

**Horizontal**



**Vertical**



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2452	103.21	109.03	-5.82	-----	-----	135	264	Average
2452	109.69	115.51	-5.82	-----	-----	135	264	Peak
2483.5	51.59	57.29	-5.7	54	-2.41	135	264	Average
2483.5	66.15	71.85	-5.7	74	-7.85	135	264	Peak
4904	34.18	49.73	-15.55	54	-19.82	221	244	Average
4904	43.46	59.01	-15.55	74	-30.54	221	244	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

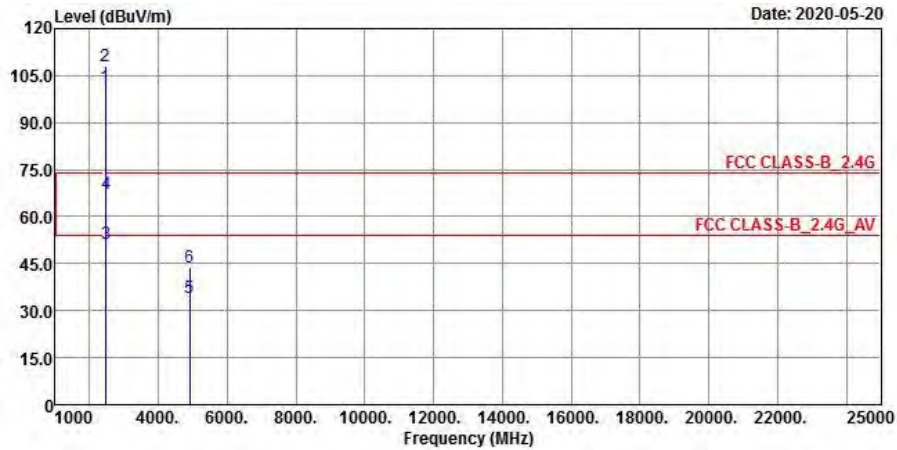
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2452	100.44	106.26	-5.82	-----	-----	310	347	Average
2452	107.55	113.37	-5.82	-----	-----	310	347	Peak
2483.5	48.46	54.16	-5.7	54	-5.54	310	347	Average
2483.5	64.34	70.04	-5.7	74	-9.66	310	347	Peak
4904	33.87	49.42	-15.55	54	-20.13	189	185	Average
4904	43.72	59.27	-15.55	74	-30.28	189	185	Peak

Remarks:

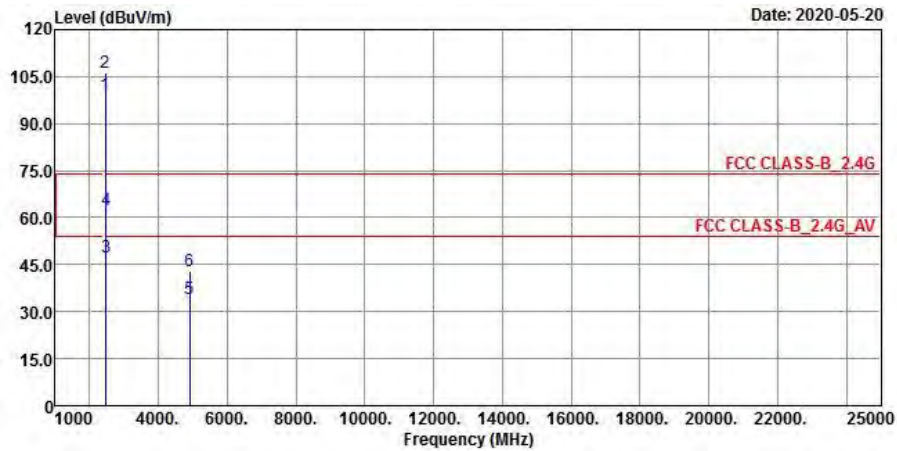
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2452 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 10	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Jisyong Wang

### Horizontal



### Vertical





**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	101.52	107.33	-5.81	-----	-----	105	264	Average
2457	107.86	113.67	-5.81	-----	-----	105	264	Peak
2483.5	51.4	57.1	-5.7	54	-2.6	105	264	Average
2483.5	67.24	72.94	-5.7	74	-6.76	105	264	Peak
4914	34.23	49.76	-15.53	54	-19.77	209	235	Average
4914	43.86	59.39	-15.53	74	-30.14	209	235	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

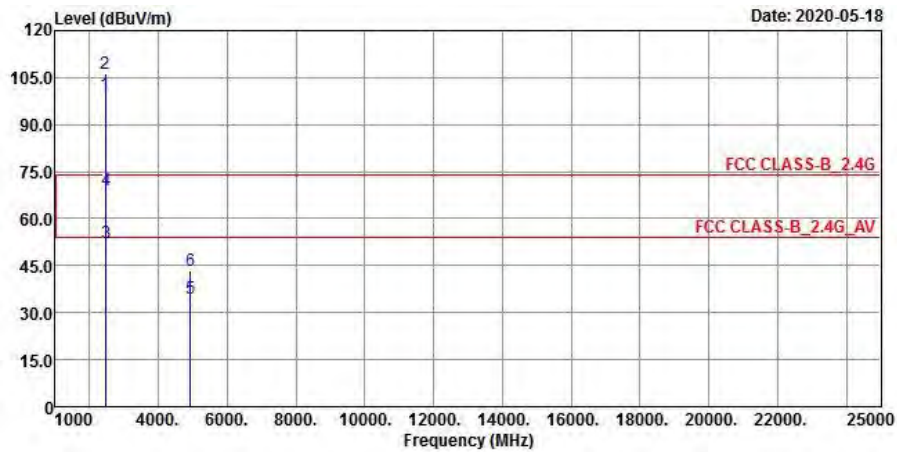
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2457	99.32	105.13	-5.81	-----	-----	313	348	Average
2457	106.41	112.22	-5.81	-----	-----	313	348	Peak
2483.5	47.35	53.05	-5.7	54	-6.65	313	348	Average
2483.5	62.27	67.97	-5.7	74	-11.73	313	348	Peak
4914	34.03	49.56	-15.53	54	-19.97	182	188	Average
4914	42.76	58.29	-15.53	74	-31.24	182	188	Peak

Remarks:

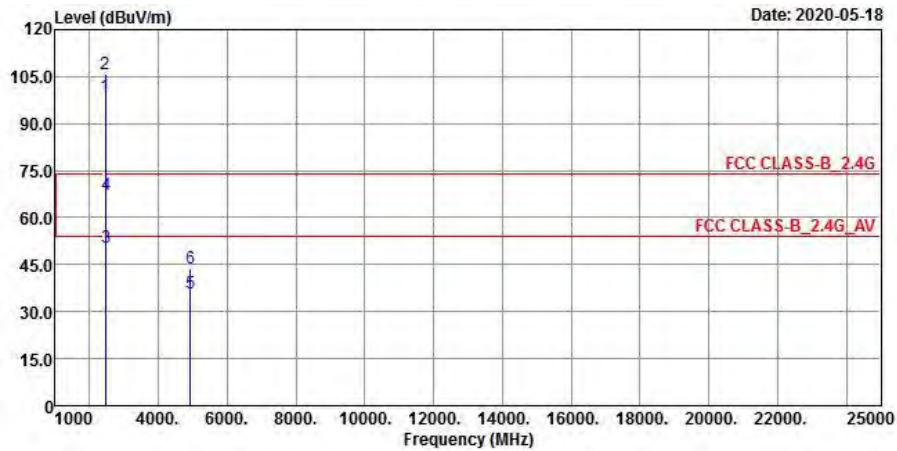
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2457 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 11	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Tim Chen

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	99.6	105.41	-5.81	-----	-----	101	119	Average
2462	106.35	112.16	-5.81	-----	-----	101	119	Peak
2483.5	52.33	58.03	-5.7	54	-1.67	101	119	Average
2483.5	68.87	74.57	-5.7	74	-5.13	101	119	Peak
4924	34.72	50.23	-15.51	54	-19.28	168	104	Average
4924	43.26	58.77	-15.51	74	-30.74	168	104	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

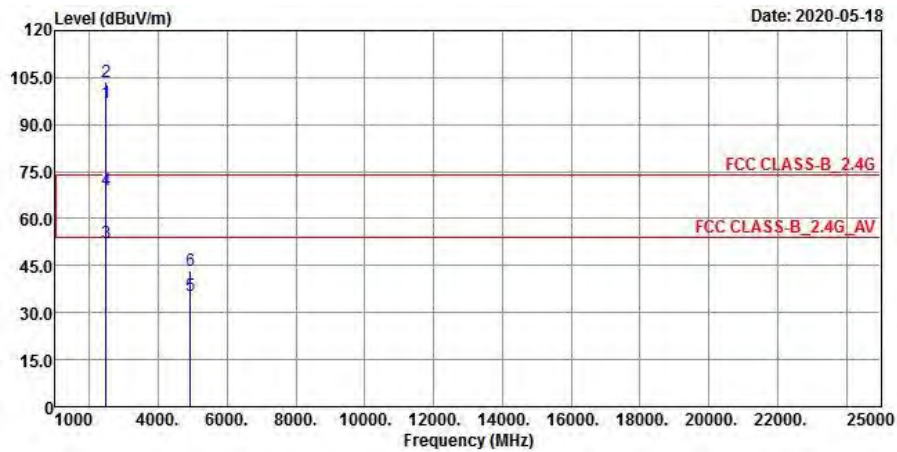
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2462	98.6	104.41	-5.81	-----	-----	351	262	Average
2462	105.96	111.77	-5.81	-----	-----	351	262	Peak
2483.5	50.41	56.11	-5.7	54	-3.59	351	262	Average
2483.5	67.34	73.04	-5.7	74	-6.66	351	262	Peak
4924	35.71	51.22	-15.51	54	-18.29	126	224	Average
4924	43.89	59.4	-15.51	74	-30.11	126	224	Peak

Remarks:

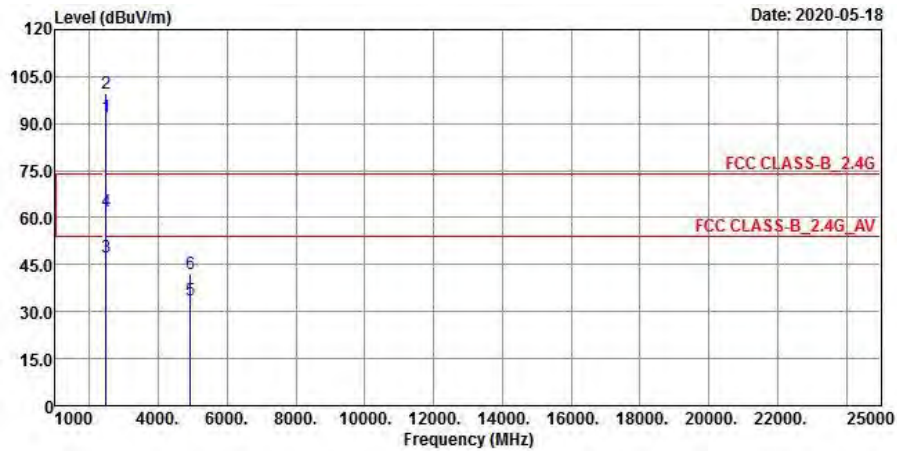
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2462 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 12	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Tim Chen

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	96.89	102.61	-5.72	-----	-----	104	119	Average
2467	103.84	109.56	-5.72	-----	-----	104	119	Peak
2483.5	52.15	57.85	-5.7	54	-1.85	104	119	Average
2483.5	69.18	74.88	-5.7	74	-4.82	104	119	Peak
4934	35.23	50.74	-15.51	54	-18.77	167	191	Average
4934	43.24	58.75	-15.51	74	-30.76	167	191	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

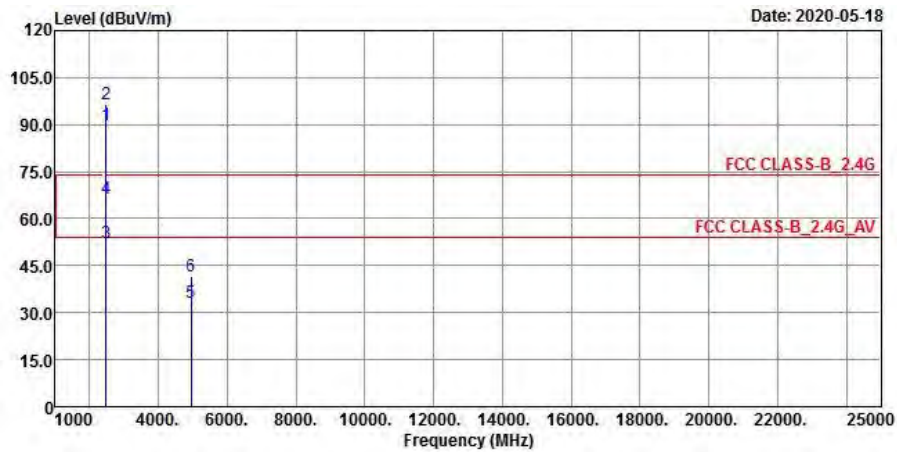
Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2467	92.3	98.02	-5.72	-----	-----	390	6	Average
2467	99.53	105.25	-5.72	-----	-----	390	6	Peak
2483.5	47.25	52.95	-5.7	54	-6.75	390	6	Average
2483.5	62.12	67.82	-5.7	74	-11.88	390	6	Peak
4934	33.85	49.36	-15.51	54	-20.15	102	124	Average
4934	42.27	57.78	-15.51	74	-31.73	102	124	Peak

Remarks:

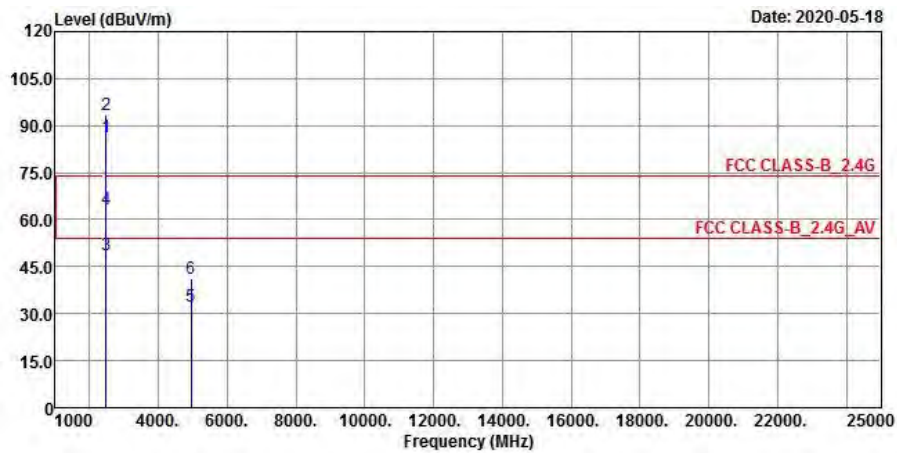
- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2467 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

EUT Test Condition		Measurement Detail	
Channel	Channel 13	Frequency Range	1 GHz ~ 25 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Average (AV)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Tim Chen

### Horizontal



### Vertical



**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	89.7	95.41	-5.71	-----	-----	100	118	Average
2472	96.39	102.1	-5.71	-----	-----	100	118	Peak
2483.546	52.43	58.13	-5.7	54	-1.57	100	118	Average
2483.546	66.21	71.91	-5.7	74	-7.79	100	118	Peak
4944	33.2	48.69	-15.49	54	-20.8	152	161	Average
4944	41.45	56.94	-15.49	74	-32.55	152	161	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
2472	86.35	92.06	-5.71	-----	-----	393	6	Average
2472	93.54	99.25	-5.71	-----	-----	393	6	Peak
2483.5	48.5	54.2	-5.7	54	-5.5	393	6	Average
2483.5	63.17	68.87	-5.7	74	-10.83	393	6	Peak
4944	32.53	47.93	-15.4	54	-21.47	107	76	Average
4944	41.37	56.77	-15.4	74	-32.63	107	76	Peak

Remarks:

- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value
- 2472 MHz: Fundamental frequency.
- The emission levels of other frequencies were very low against the limit.

**9 kHz ~ 30 MHz Data:**

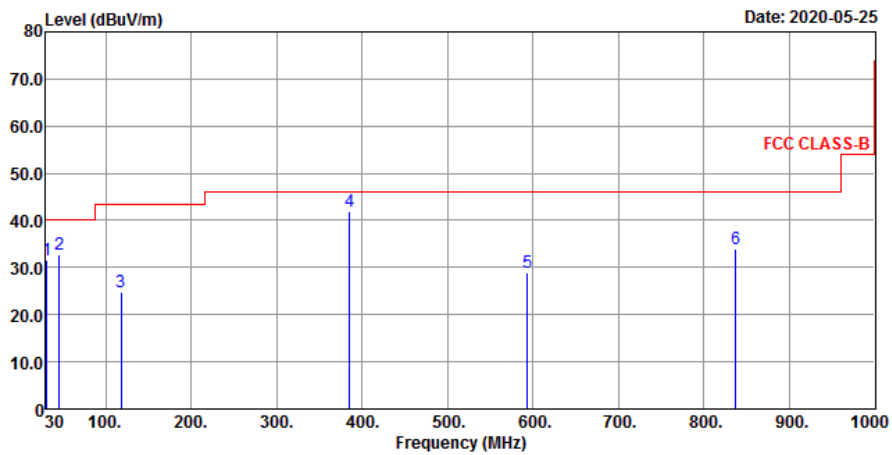
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

**30 MHz ~ 1 GHz Worst-Case Data:**

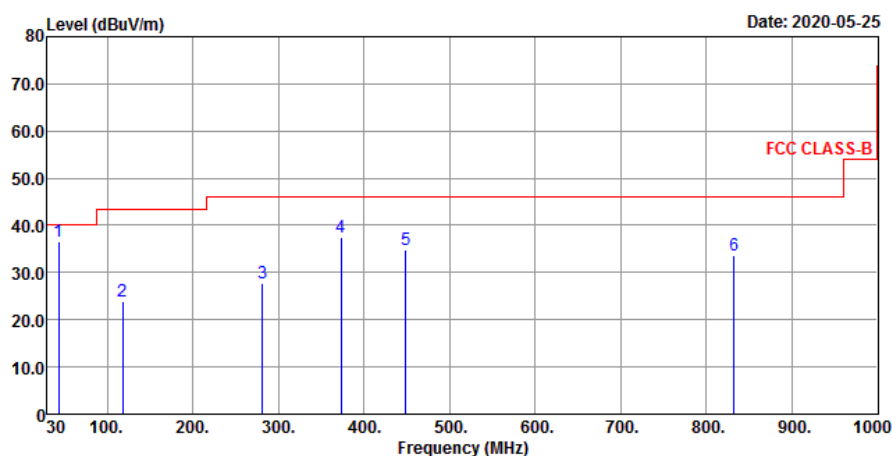
**802.11g**

EUT Test Condition		Measurement Detail	
Channel	Channel 4	Frequency Range	30 MHz ~ 1 GHz
Input Power	120 Vac, 60 Hz	Detector Function	Peak (PK) Quasi-peak (QP)
Environmental Conditions	25 deg. C, 65 % RH	Tested By	Getaz Yang

**Horizontal**



**Vertical**





**Antenna Polarity & Test Distance: Horizontal at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
30.97	31.56	44.85	-13.29	40	-8.44	133	293	QP
45.52	32.82	44.6	-11.78	40	-7.18	119	184	QP
118.27	24.8	38.75	-13.95	43.5	-18.7	114	112	Peak
385.02	41.87	50.51	-8.64	46	-4.13	113	291	Peak
593.57	28.91	31.83	-2.92	46	-17.09	129	28	Peak
837.04	33.87	31.54	2.33	46	-12.13	103	304	Peak

**Antenna Polarity & Test Distance: Vertical at 3 m**

Frequency (MHz)	Emission Level (dBuV/m)	Read Level (dBuV)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (cm)	Table Angle (Degree)	Remark
43.58	36.63	48.55	-11.92	40	-3.37	114	2	Peak
118.27	23.84	37.79	-13.95	43.5	-19.66	106	283	Peak
281.23	27.86	39.55	-11.69	46	-18.14	122	249	Peak
373.38	37.56	46.46	-8.9	46	-8.44	121	217	Peak
449.04	34.78	41.25	-6.47	46	-11.22	110	162	Peak
832.19	33.67	31.41	2.26	46	-12.33	127	40	Peak

Remarks:

- Emission Level = Read Level + Factor  
Margin value = Emission level – Limit value.
- The emission levels of other frequencies were very low against the limit.

## 4.2 Conducted Emission Measurement

### 4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

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

### 4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver ROHDE & SCHWARZ	ESR3	102412	Feb. 17, 2020	Feb. 16, 2021
RF signal cable (with 10dB PAD) Woken	5D-FB	Cable-cond2-01	Sep. 05, 2019	Sep. 04, 2020
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Jan. 20, 2020	Jan. 19, 2021
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Aug. 13, 2019	Aug. 12, 2020
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.  
 2. The test was performed in HwaYa Shielded Room 2.  
 3. The VCCI Site Registration No. is C-12047.

#### 4.2.3 Test Procedures

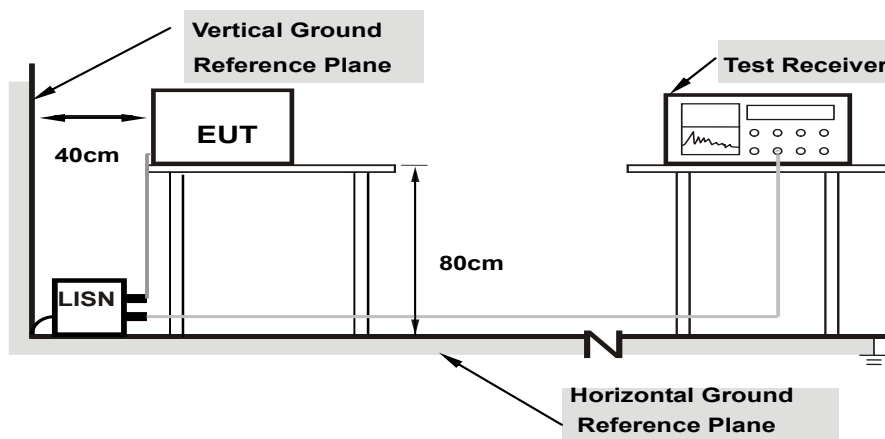
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/50 uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150 kHz to 30 MHz was searched. Emission levels under (Limit – 20 dB) was not recorded.

**Note:** The resolution bandwidth and video bandwidth of test receiver is 9 kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15 MHz – 30 MHz.

#### 4.2.4 Deviation from Test Standard

No deviation.

#### 4.2.5 Test Setup



**Note:** 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

#### 4.2.6 EUT Operating Conditions

- a. Placed the EUT on a testing table.
- b. Use the software to control the EUT under transmission condition continuously at specific channel frequency.

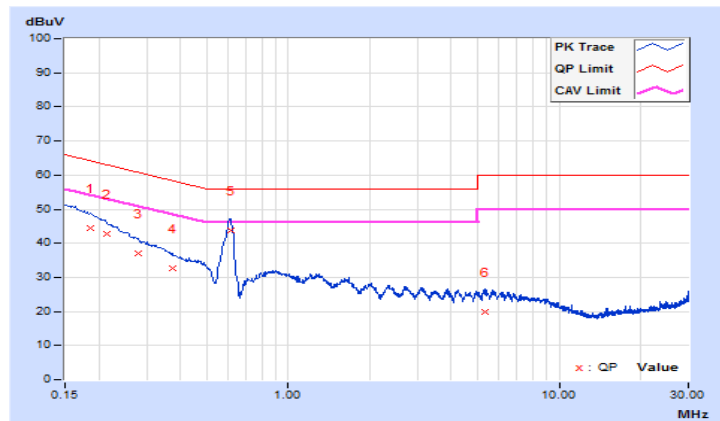
#### 4.2.7 Test Results

Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Jisyong Wang	Test Date	2020/6/2

Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.18510	10.16	34.37	30.51	44.53	40.67	64.25	54.25	-19.72	-13.58
2	0.21403	10.17	32.57	28.03	42.74	38.20	63.05	53.05	-20.31	-14.85
3	0.27797	10.18	26.86	22.50	37.04	32.68	60.88	50.88	-23.84	-18.20
4	0.37263	10.20	22.35	19.55	32.55	29.75	58.44	48.44	-25.89	-18.69
5	0.61125	10.22	33.52	26.59	43.74	36.81	56.00	46.00	-12.26	-9.19
6	5.31375	10.41	9.31	3.96	19.72	14.37	60.00	50.00	-40.28	-35.63

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

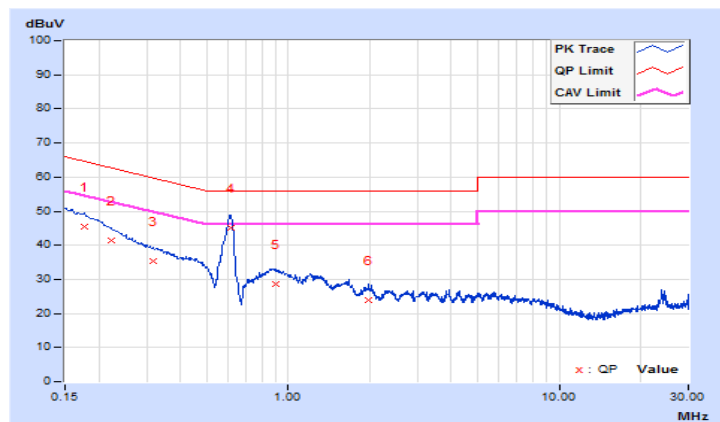


Frequency Range	150kHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9kHz
Input Power	120Vac, 60Hz	Environmental Conditions	25°C, 65%RH
Tested by	Jisyong Wang	Test Date	2020/6/2

Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17698	10.13	35.34	30.52	45.47	40.65	64.63	54.63	-19.16	-13.98
2	0.22151	10.14	31.27	28.21	41.41	38.35	62.76	52.76	-21.35	-14.41
3	0.31875	10.16	25.03	21.74	35.19	31.90	59.74	49.74	-24.55	-17.84
<b>4</b>	<b>0.61125</b>	<b>10.20</b>	<b>34.88</b>	<b>27.00</b>	<b>45.08</b>	<b>37.20</b>	<b>56.00</b>	<b>46.00</b>	<b>-10.92</b>	<b>-8.80</b>
5	0.90150	10.23	18.32	12.84	28.55	23.07	56.00	46.00	-27.45	-22.93
6	1.98375	10.28	13.62	7.21	23.90	17.49	56.00	46.00	-32.10	-28.51

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

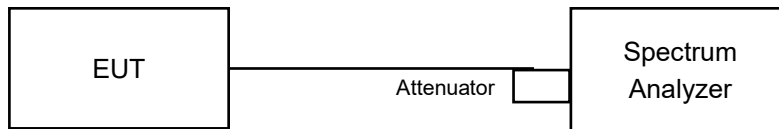


### 4.3 6 dB Bandwidth Measurement

#### 4.3.1 Limits of 6 dB Bandwidth Measurement

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

#### 4.3.2 Test Setup



#### 4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.3.4 Test Procedure

- Set resolution bandwidth (RBW) = 100 kHz
- Set the video bandwidth (VBW)  $\geq 3 \times$  RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

#### 4.3.5 Deviation from Test Standard

No deviation.

#### 4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.3.7 Test Results

##### 802.11b

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	8.10	0.5	Pass
6	2437	9.08	0.5	Pass
11	2462	8.11	0.5	Pass
12	2467	8.09	0.5	Pass
13	2472	8.08	0.5	Pass

##### 802.11g

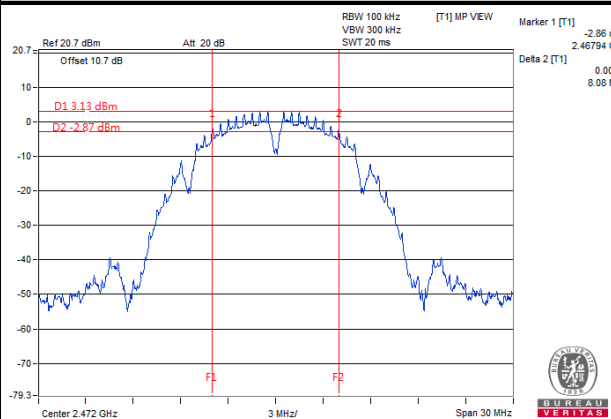
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.33	0.5	Pass
6	2437	16.06	0.5	Pass
11	2462	15.83	0.5	Pass
12	2467	16.32	0.5	Pass
13	2472	16.35	0.5	Pass

##### 802.11n (HT20)

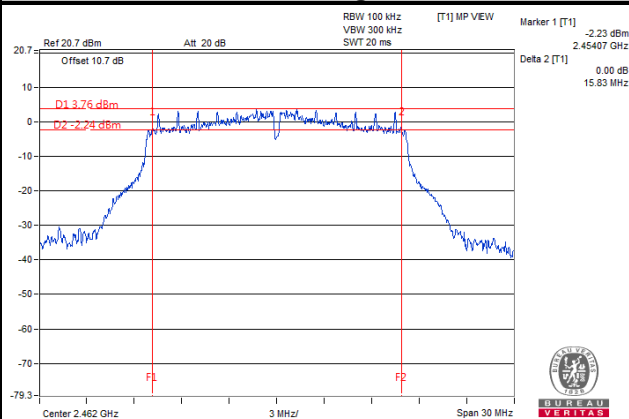
Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
1	2412	16.93	0.5	Pass
6	2437	16.04	0.5	Pass
11	2462	16.10	0.5	Pass
12	2467	17.08	0.5	Pass
13	2472	17.07	0.5	Pass

### Spectrum Plot of Worst Value

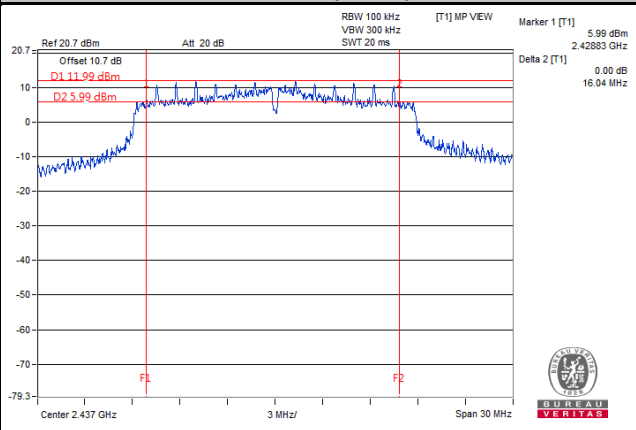
#### 802.11b



#### 802.11g



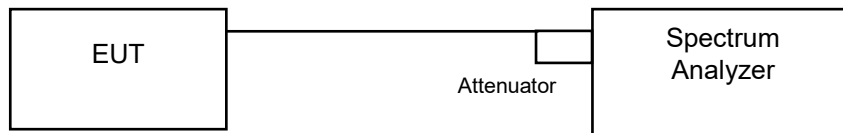
#### 802.11n (HT20)





## 4.4 Occupied Bandwidth Measurement

### 4.4.1 Test Setup



### 4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1 % to 5 % of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to sampling. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 % of the total mean power of a given emission.

### 4.4.4 Deviation from Test Standard

No deviation.

### 4.4.5 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.4.6 Test Results

##### 802.11b

Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	12.06	Pass
6	2437	14.70	Pass
11	2462	12.06	Pass
12	2467	11.88	Pass
13	2472	10.98	Pass

##### 802.11g

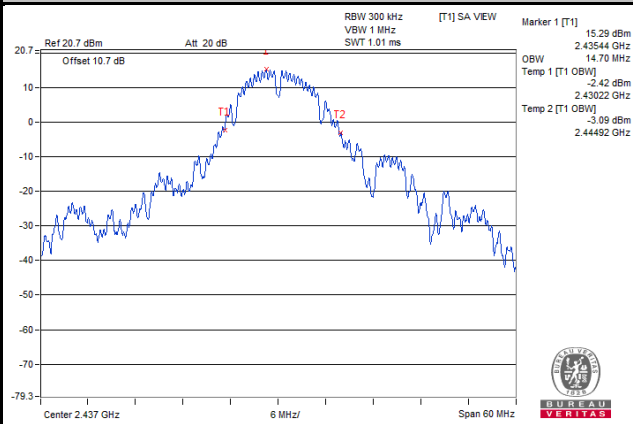
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	16.80	Pass
6	2437	19.32	Pass
11	2462	16.68	Pass
12	2467	16.86	Pass
13	2472	16.80	Pass

##### 802.11n (HT20)

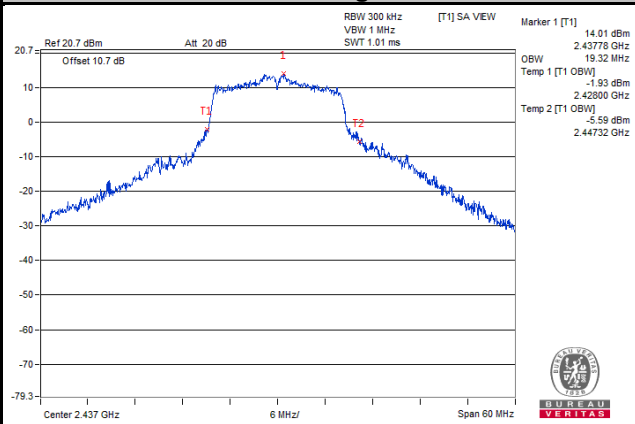
Channel	Frequency (MHz)	Occupied Bandwidth (MHz)	Pass / Fail
1	2412	17.94	Pass
6	2437	23.76	Pass
11	2462	17.82	Pass
12	2467	18.00	Pass
13	2472	17.94	Pass

### Spectrum Plot of Worst Value

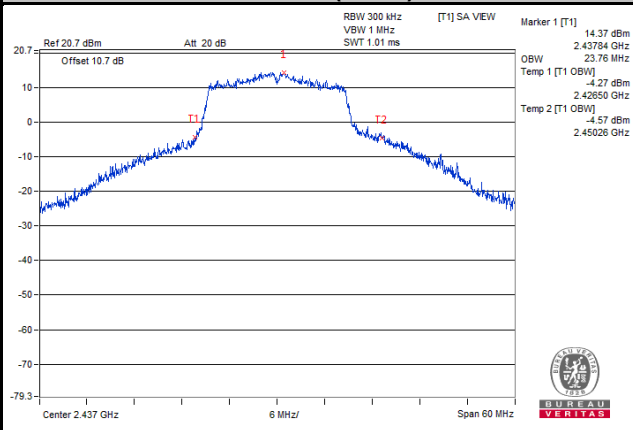
#### 802.11b



#### 802.11g



#### 802.11n (HT20)

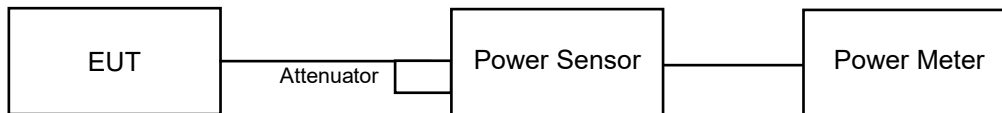


## 4.5 Conducted Output Power Measurement

### 4.5.1 Limits of Conducted Output Power Measurement

For systems using digital modulation in the 2400–2483.5 MHz bands: 1 Watt (30 dBm)

### 4.5.2 Test Setup



### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.5.4 Test Procedures

Average power sensor was used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

### 4.5.5 Deviation from Test Standard

No deviation.

### 4.5.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.5.7 Test Results

##### Average Power

##### 802.11b

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	63.826	18.05	30	Pass
2	2417	97.275	19.88	30	Pass
3	2422	123.027	20.90	30	Pass
6	2437	196.336	22.93	30	Pass
9	2452	103.276	20.14	30	Pass
10	2457	79.25	18.99	30	Pass
11	2462	53.58	17.29	30	Pass
12	2467	35.481	15.50	30	Pass
13	2472	12.274	10.89	30	Pass

##### 802.11g

Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	27.227	14.35	30	Pass
2	2417	42.267	16.26	30	Pass
3	2422	48.195	16.83	30	Pass
4	2427	68.077	18.33	30	Pass
5	2432	89.331	19.51	30	Pass
6	2437	115.345	20.62	30	Pass
7	2442	103.992	20.17	30	Pass
8	2447	65.313	18.15	30	Pass
9	2452	51.761	17.14	30	Pass
10	2457	40.179	16.04	30	Pass
11	2462	30.479	14.84	30	Pass
12	2467	20.137	13.04	30	Pass
13	2472	1.954	2.91	30	Pass

**802.11n (HT20)**

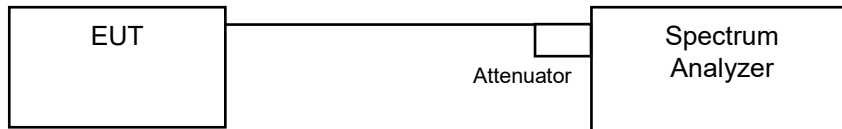
Channel	Frequency (MHz)	Average Power (mW)	Average Power (dBm)	Limit (dBm)	Pass / Fail
1	2412	33.266	15.22	30	Pass
2	2417	52.481	17.20	30	Pass
3	2422	63.68	18.04	30	Pass
4	2427	76.736	18.85	30	Pass
5	2432	97.275	19.88	30	Pass
6	2437	152.757	21.84	30	Pass
7	2442	95.94	19.82	30	Pass
8	2447	73.621	18.67	30	Pass
9	2452	60.256	17.80	30	Pass
10	2457	44.668	16.50	30	Pass
11	2462	31.989	15.05	30	Pass
12	2467	19.275	12.85	30	Pass
13	2472	3.999	6.02	30	Pass

## 4.6 Power Spectral Density Measurement

### 4.6.1 Limits of Power Spectral Density Measurement

The Maximum of Power Spectral Density Measurement is 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 4.6.2 Test Setup



### 4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.6.4 Test Procedure

For AVG. power (duty cycle  $\geq 98\%$ )

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- d) Set VBW  $\geq 3 \times \text{RBW}$ .
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span}/\text{RBW}$ .
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.

For AVG. power (duty cycle  $< 98\%$ )

- a) Measure the duty cycle (x).
- b) Set instrument center frequency to DTS channel center frequency.
- c) Set span to at least 1.5 times the OBW.
- d) Set RBW to:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
- e) Set VBW  $\geq 3 \times \text{RBW}$ .
- f) Detector = power averaging (RMS) or sample detector (when RMS not available).
- g) Ensure that the number of measurement points in the sweep  $\geq 2 \times \text{span}/\text{RBW}$ .
- h) Sweep time = auto couple.
- i) Do not use sweep triggering. Allow sweep to "free run".
- j) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- k) Use the peak marker function to determine the maximum amplitude level.
- l) Add  $10 \log(1/x)$ , where x is the duty cycle measured in step (a), to the measured PSD to compute the average PSD during the actual transmission time.

### 4.6.5 Deviation from Test Standard

No deviation.

#### 4.6.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.6.7 Test Results

##### 802.11b

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-15.26	8	Pass
6	2437	-10.82	8	Pass
11	2462	-15.94	8	Pass
12	2467	-17.7	8	Pass
13	2472	-22.61	8	Pass

##### 802.11g

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-16.79	8	Pass
6	2437	-10.43	8	Pass
11	2462	-15.94	8	Pass
12	2467	-17.61	8	Pass
13	2472	-28.45	8	Pass

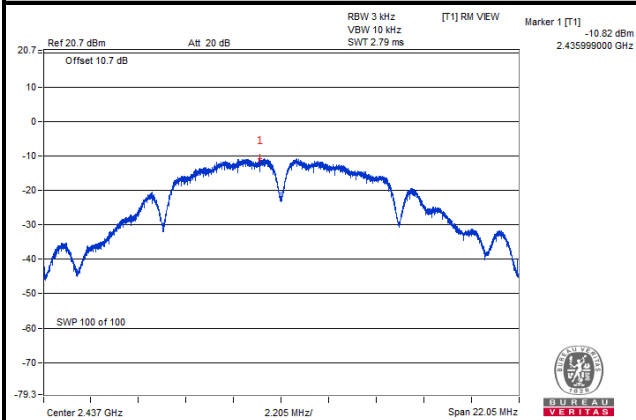
##### 802.11n (HT20)

Channel	Frequency (MHz)	PSD (dBm/3 kHz)	Limit (dBm/3 kHz)	Pass / Fail
1	2412	-18.61	8	Pass
6	2437	-11.98	8	Pass
11	2462	-18.11	8	Pass
12	2467	-20.7	8	Pass
13	2472	-28.16	8	Pass

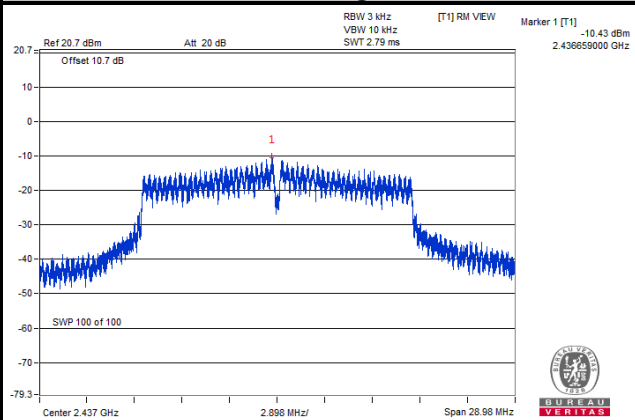


### Spectrum Plot of Worst Value

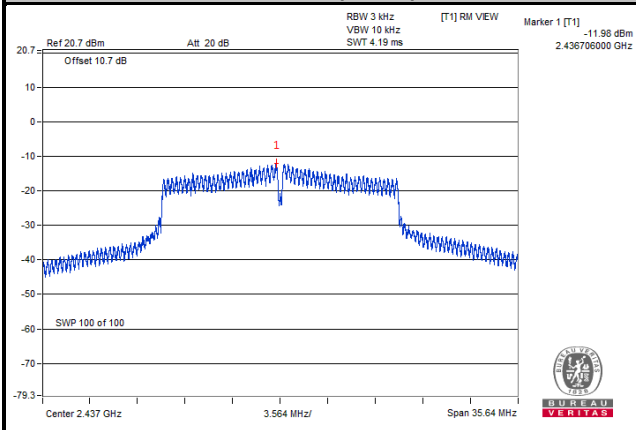
#### 802.11b



#### 802.11g



#### 802.11n (HT20)

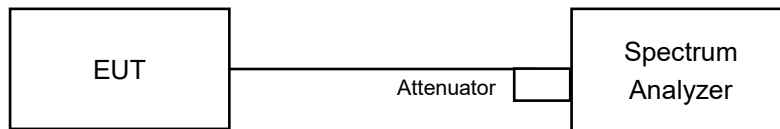


## 4.7 Conducted Out of Band Emission Measurement

### 4.7.1 Limits of Conducted Out of Band Emission Measurement

Below -30 dB of the highest emission level of operating band (in 100 kHz Resolution Bandwidth).

### 4.7.2 Test Setup



### 4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.7.4 Test Procedure

#### MEASUREMENT PROCEDURE REF

1. Set the RBW = 100 kHz.
2. Set the VBW  $\geq$  300 kHz.
3. Detector = peak.
4. Sweep time = auto couple.
5. Trace mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

#### MEASUREMENT PROCEDURE OOB

1. Set RBW = 100 kHz.
2. Set VBW  $\geq$  300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

### 4.7.5 Deviation from Test Standard

No deviation.

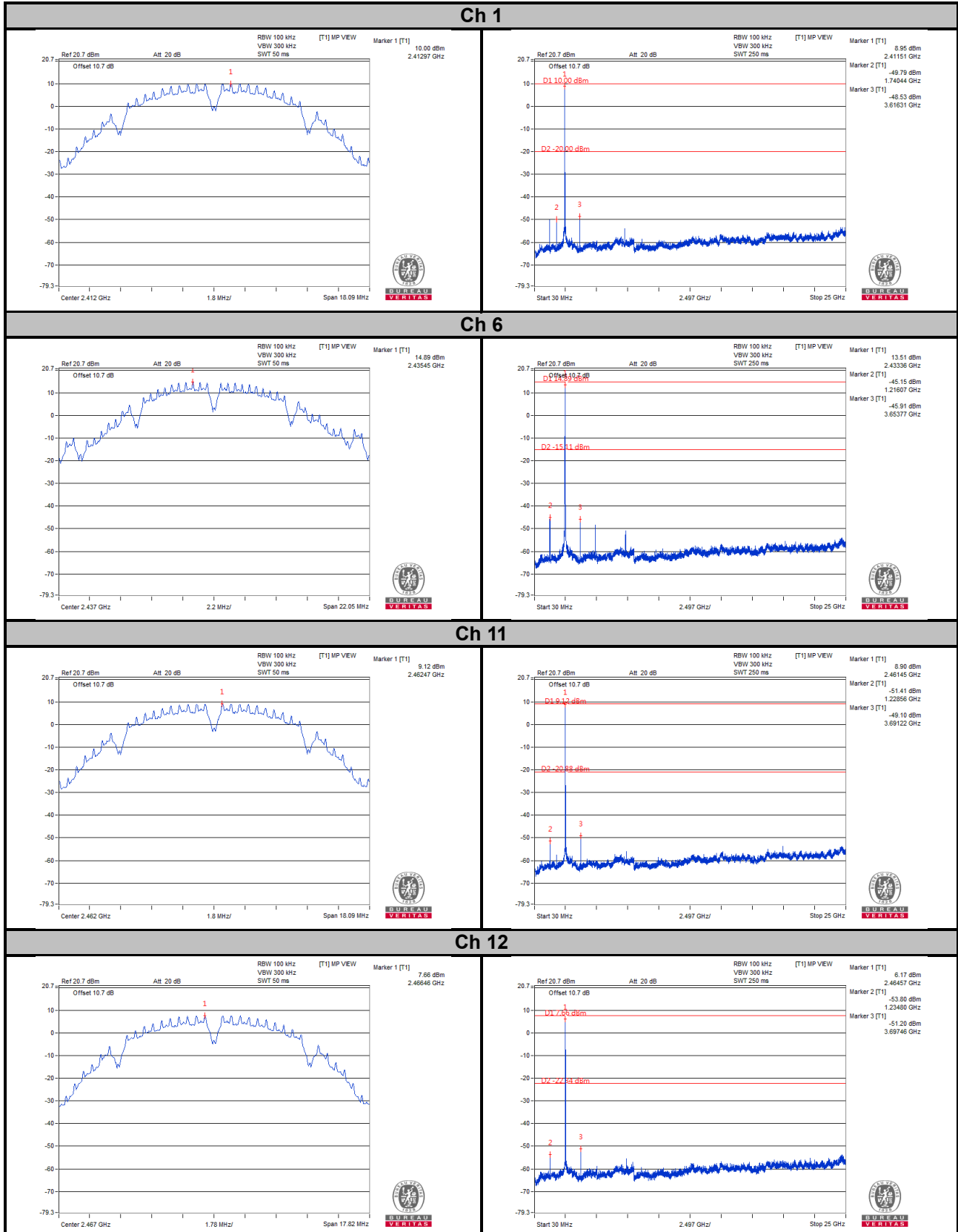
### 4.7.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

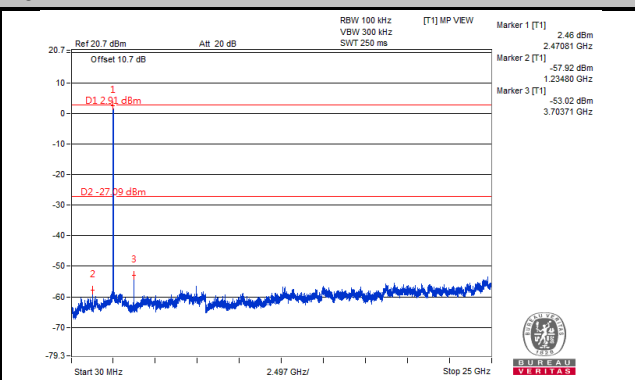
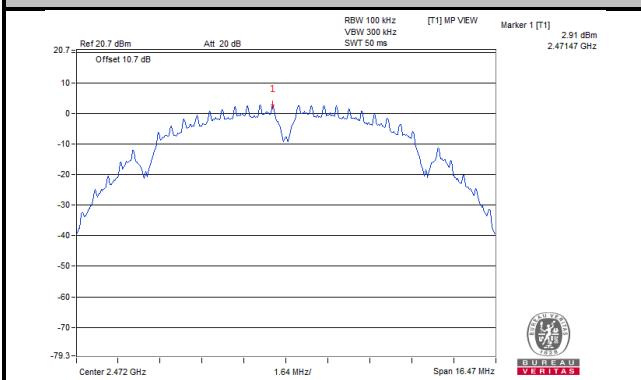
### 4.7.7 Test Results

The spectrum plots are attached on the following images. D1 line indicates the highest level, and D2 line indicates the 30 dB offset below D1. It shows compliance with the requirement.

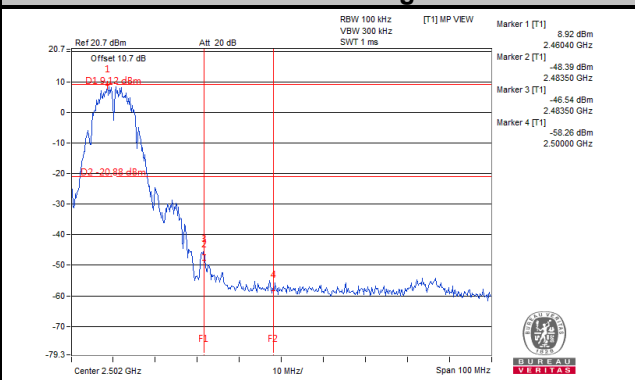
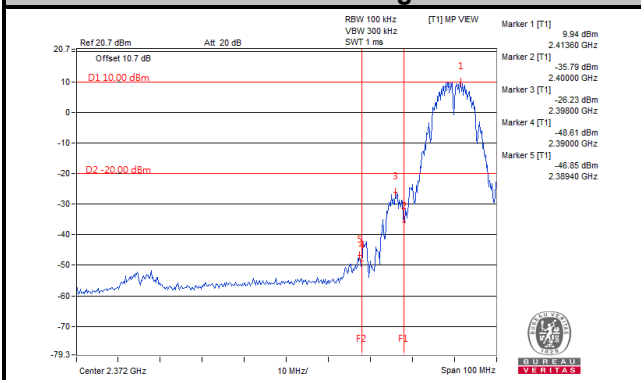
#### 802.11b



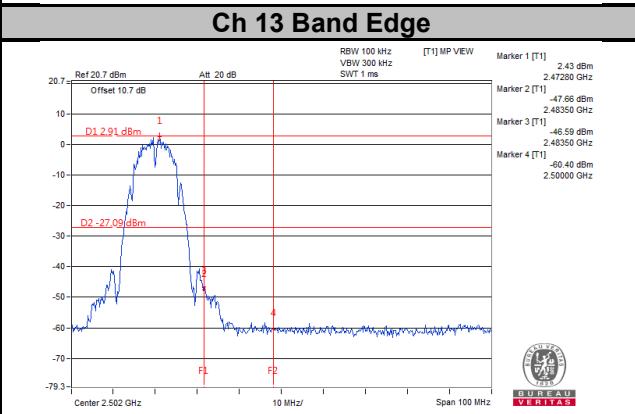
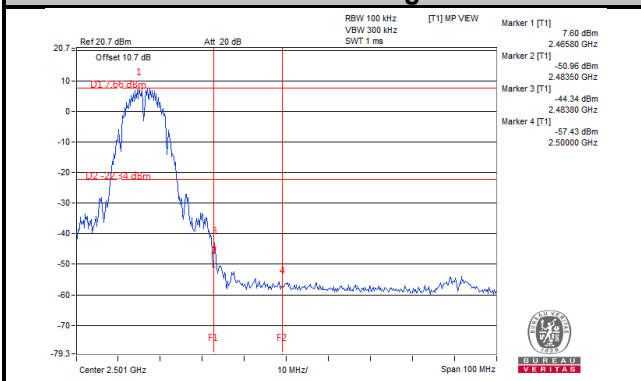
### Ch 13



### Ch 1 Band Edge

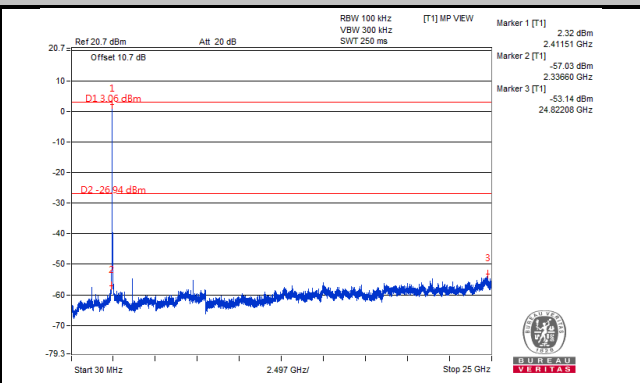
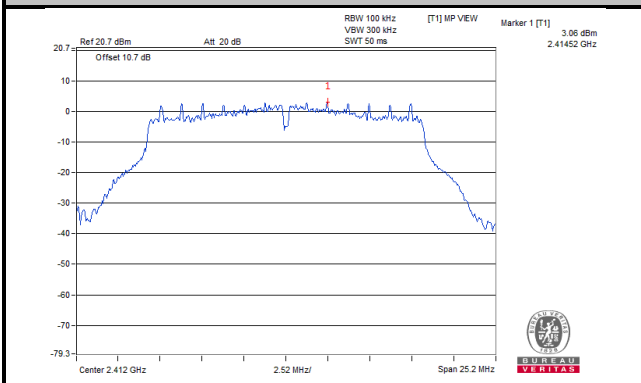


### Ch 12 Band Edge

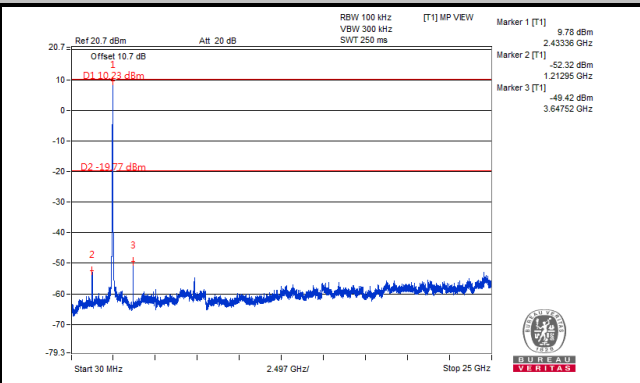
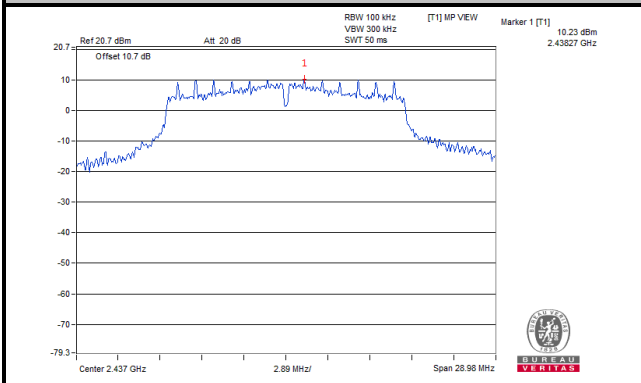


802.11g

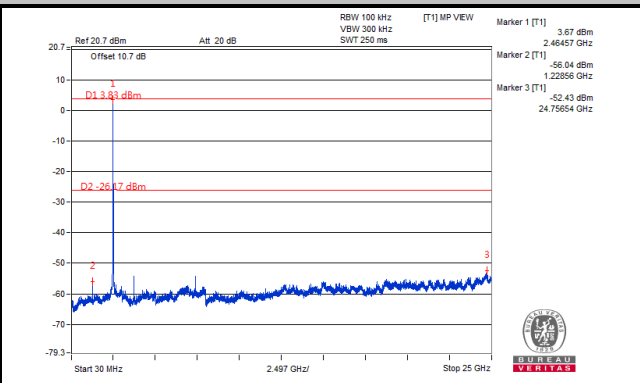
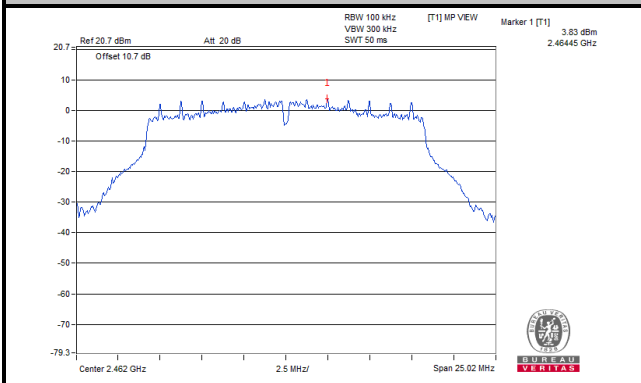
Ch 1



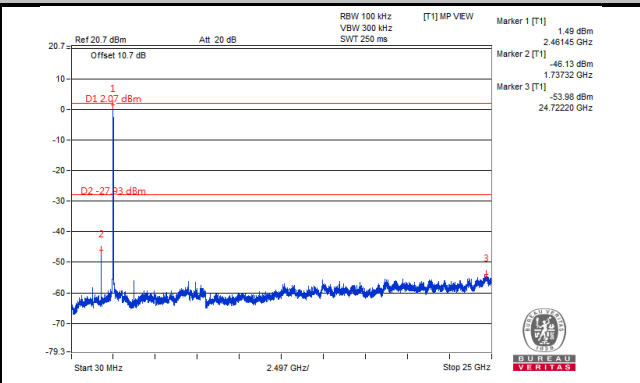
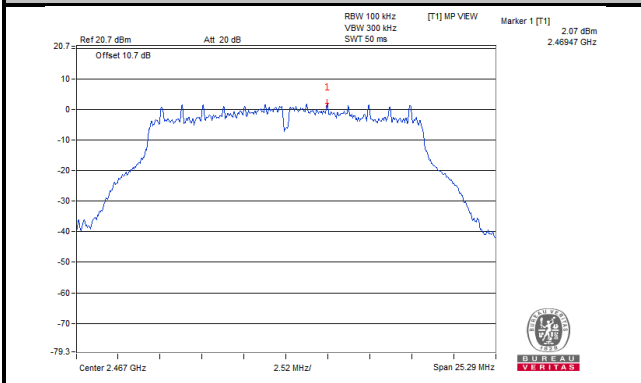
Ch 6



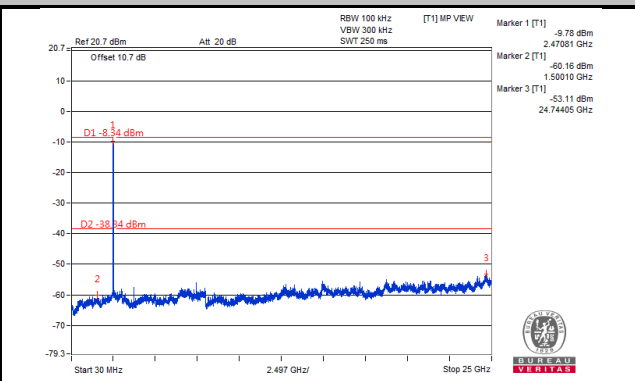
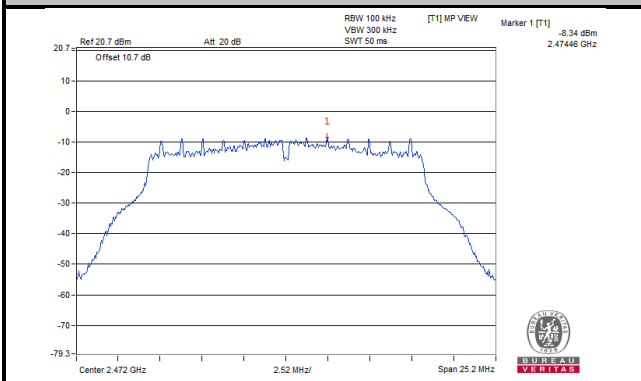
Ch 11



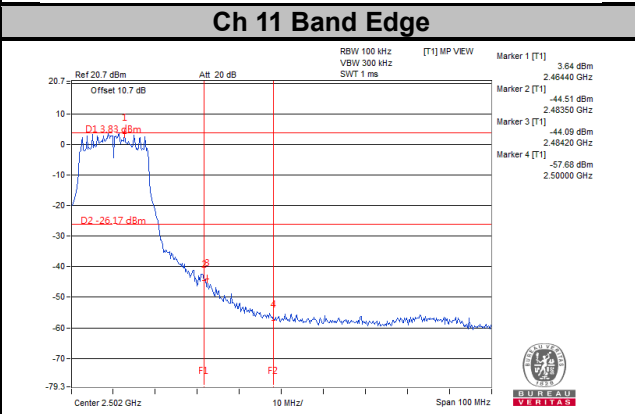
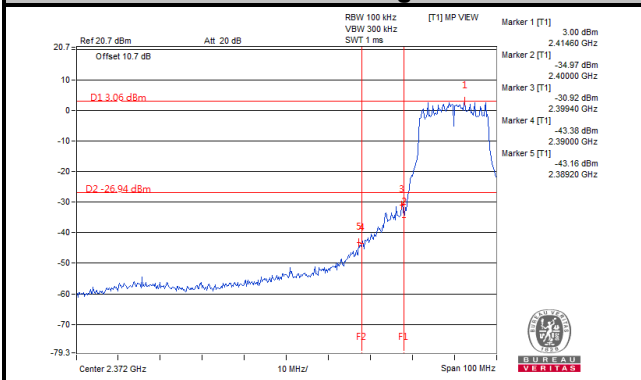
Ch 12



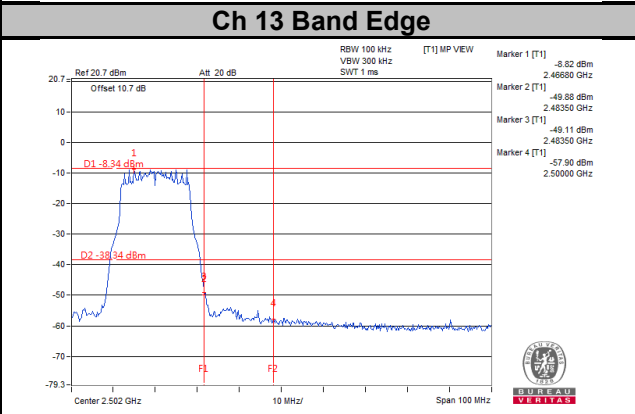
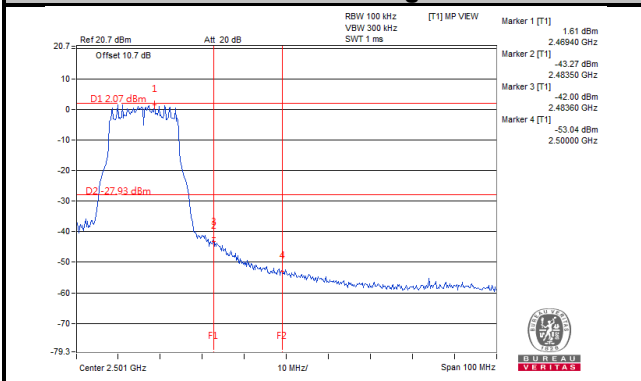
### Ch 13



### Ch 1 Band Edge

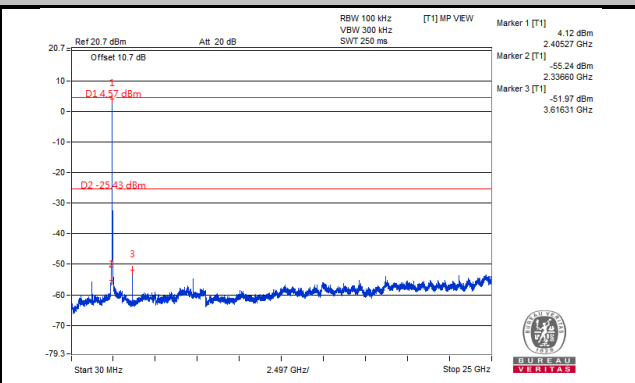
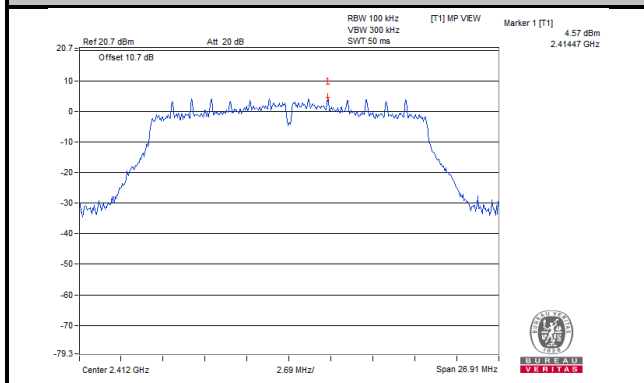


### Ch 12 Band Edge

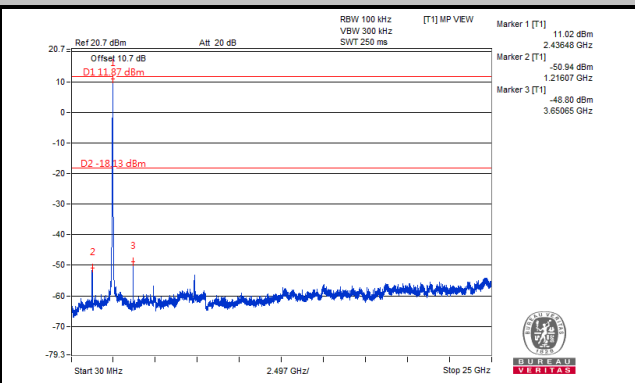
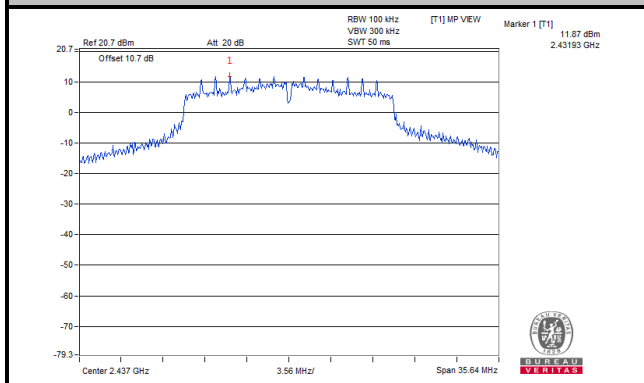


# 802.11n (HT20)

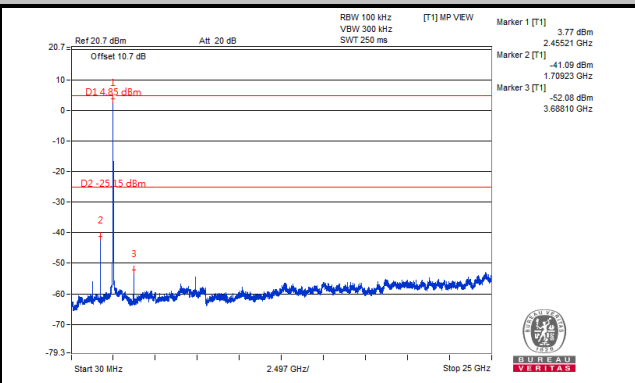
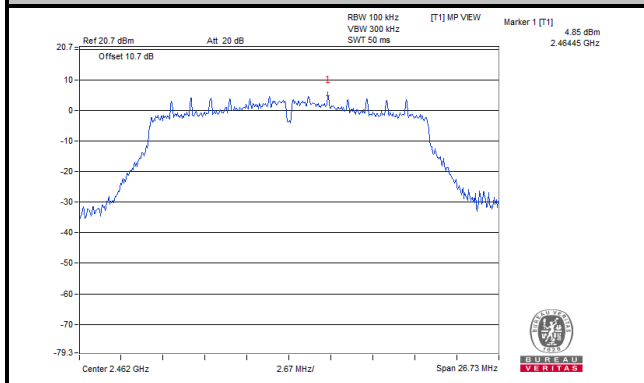
## Ch 1



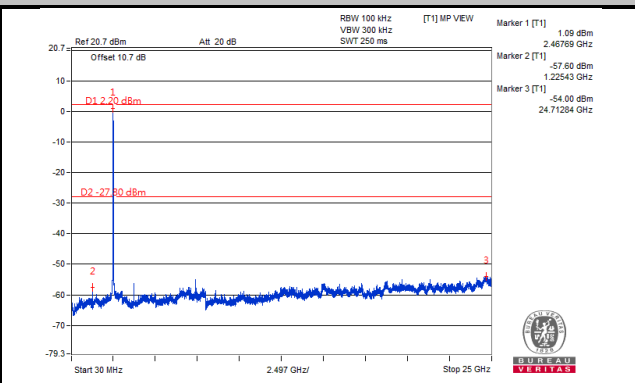
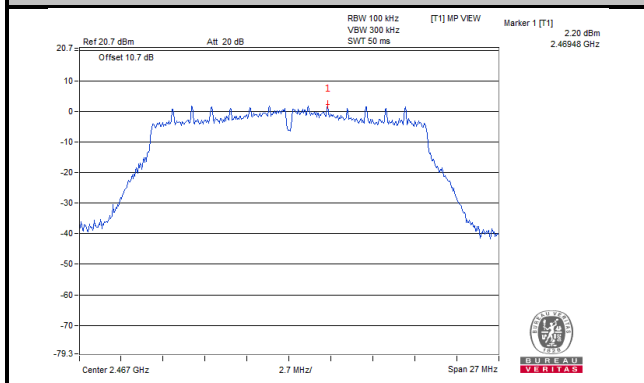
## Ch 6



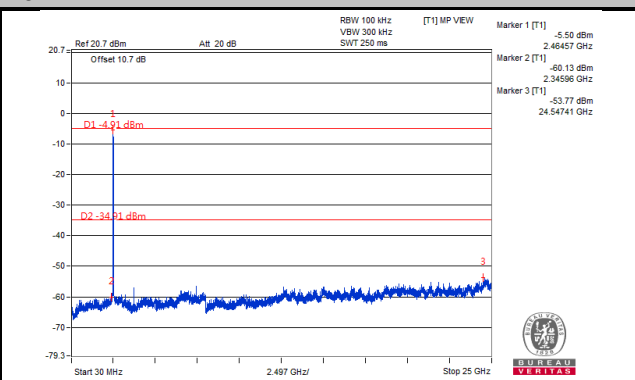
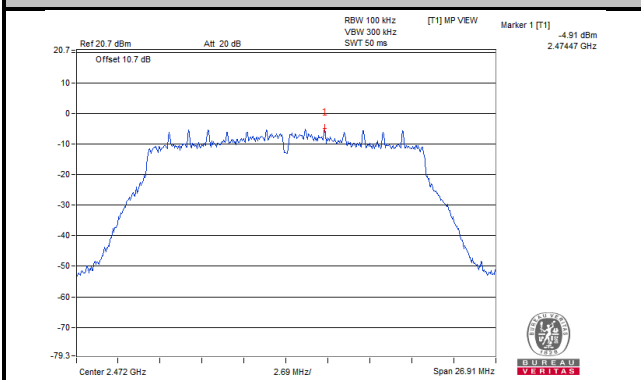
## Ch 11



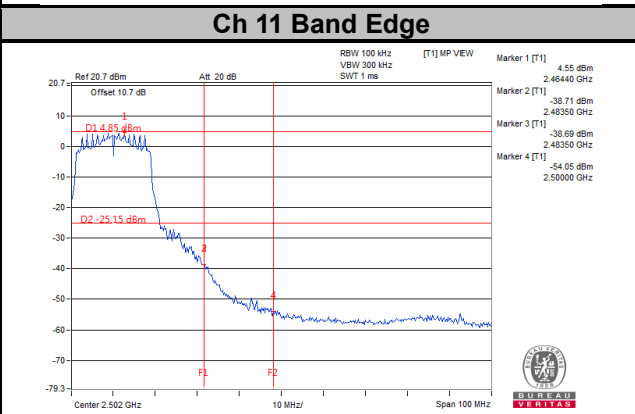
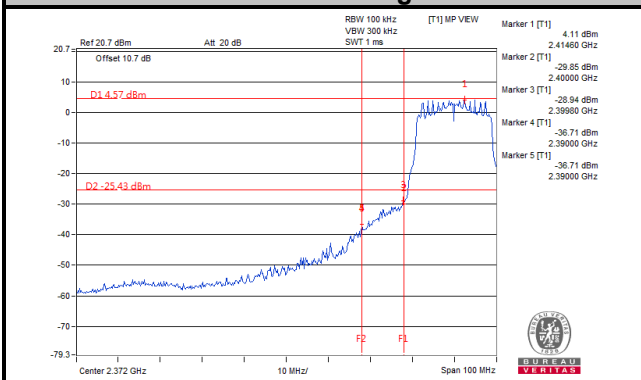
## Ch 12



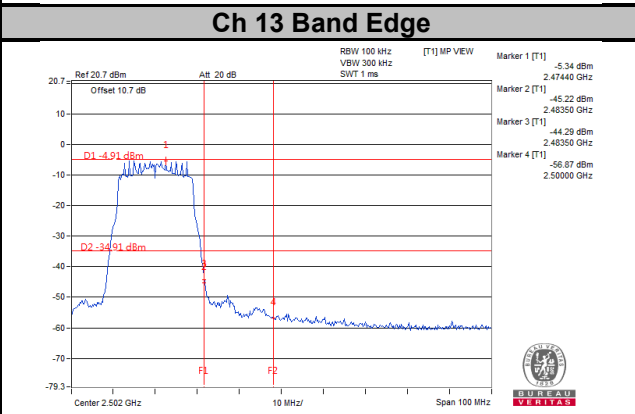
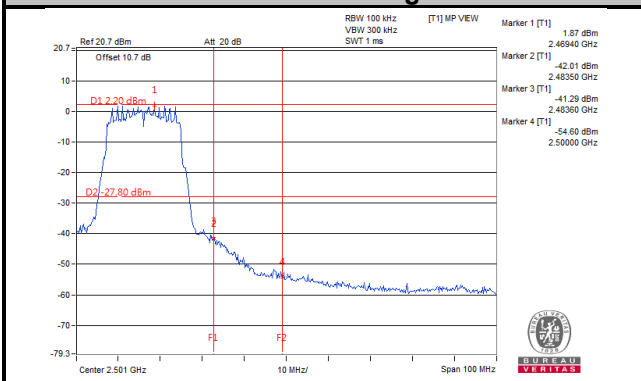
### Ch 13



### Ch 1 Band Edge



### Ch 12 Band Edge



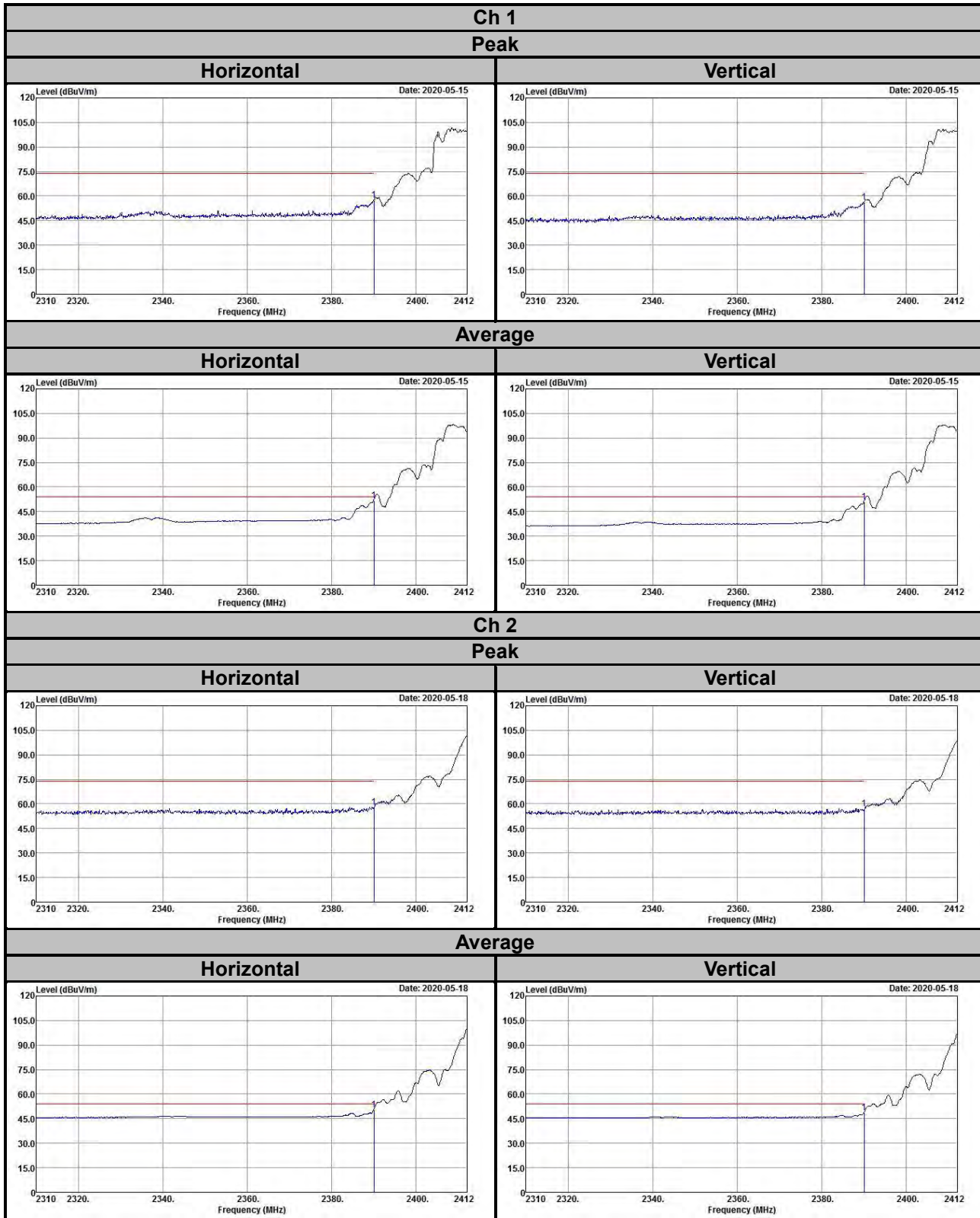


## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

# Annex A- Band-edge measurement

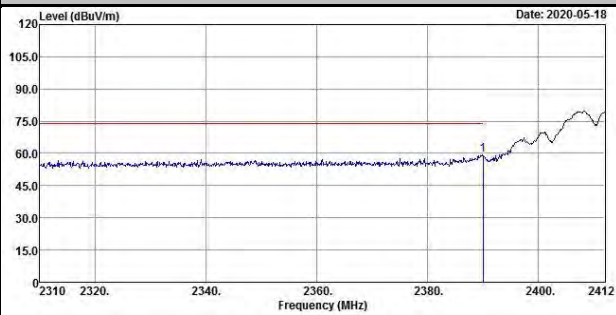
## 802.11b



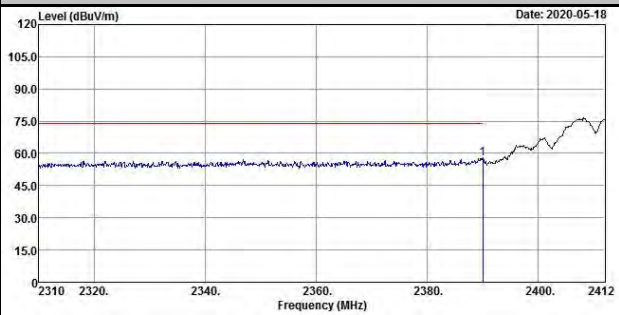
### Ch 3

#### Peak

##### Horizontal

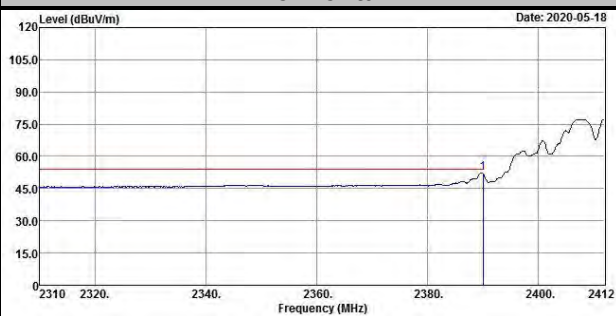


##### Vertical

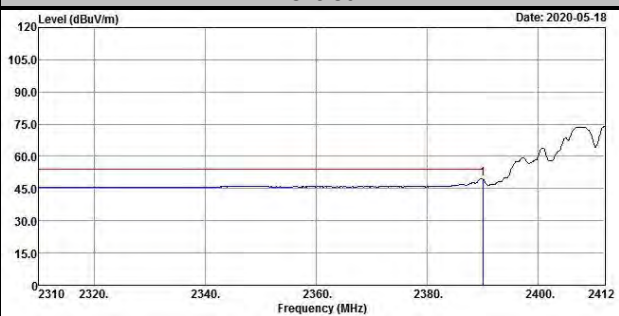


#### Average

##### Horizontal



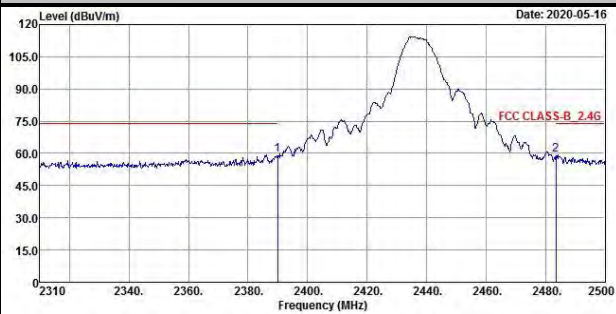
##### Vertical



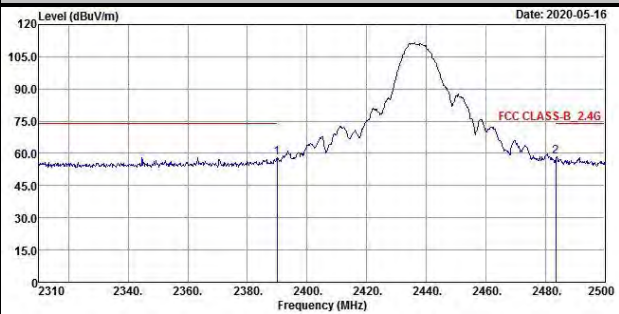
### Ch 6

#### Peak

##### Horizontal

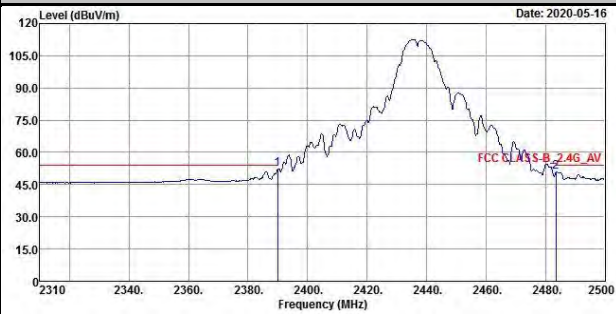


##### Vertical

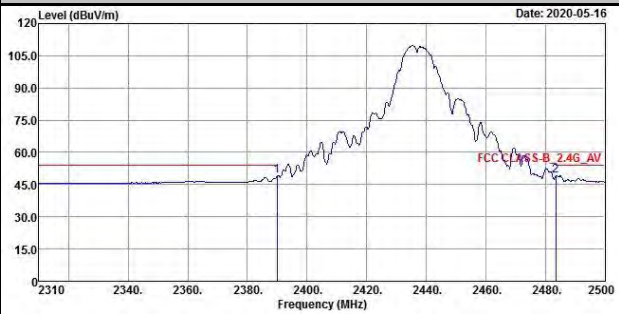


#### Average

##### Horizontal



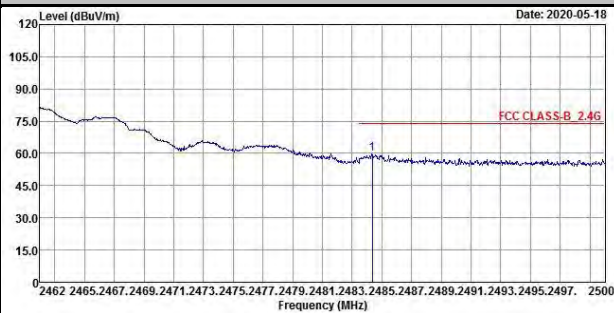
##### Vertical



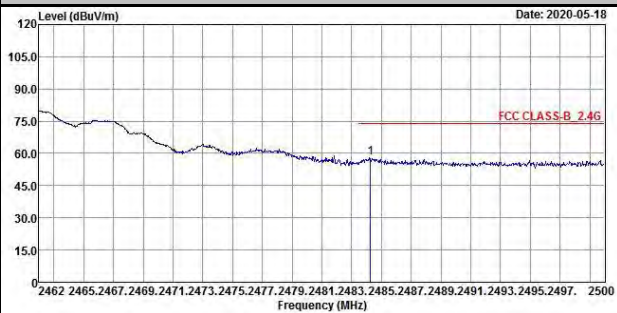
### Ch 9

#### Peak

##### Horizontal

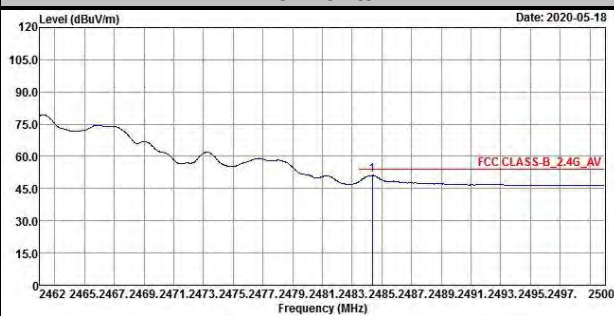


##### Vertical

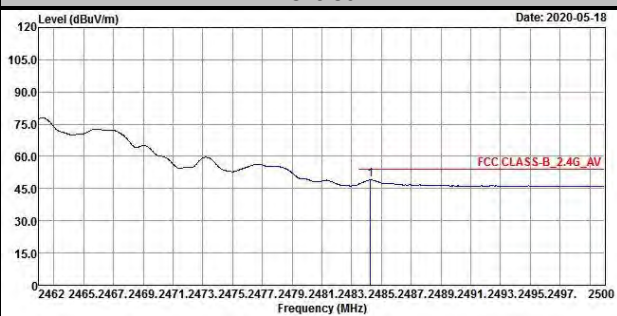


#### Average

##### Horizontal



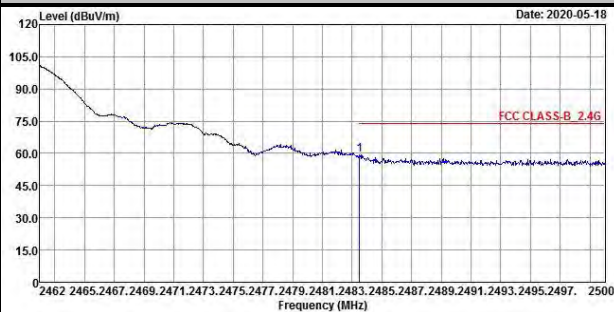
##### Vertical



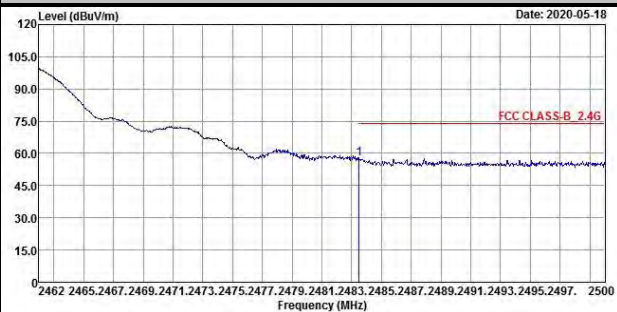
### Ch 10

#### Peak

##### Horizontal

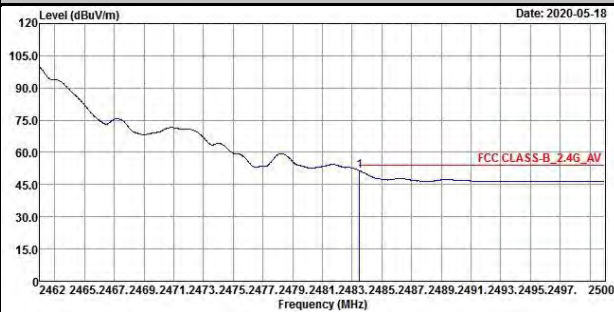


##### Vertical

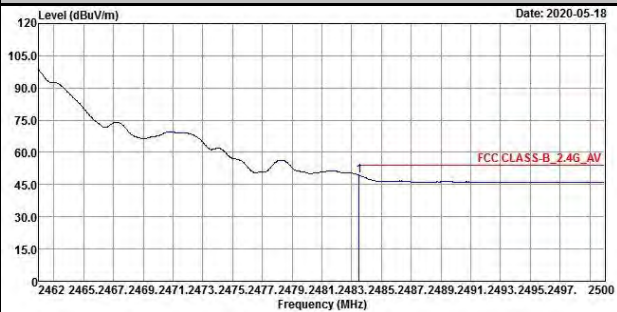


#### Average

##### Horizontal



##### Vertical

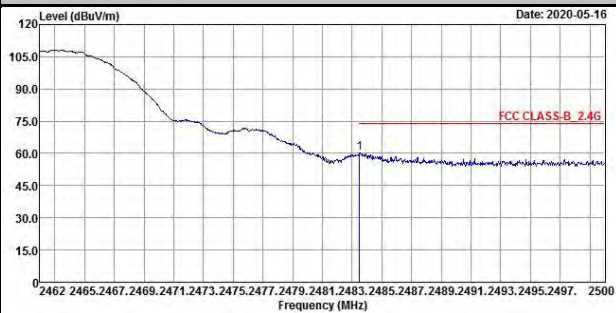




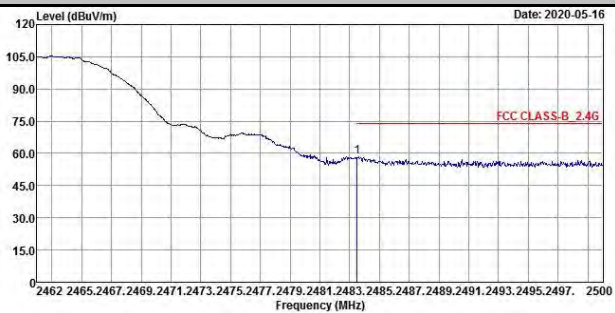
### Ch 11

#### Peak

##### Horizontal

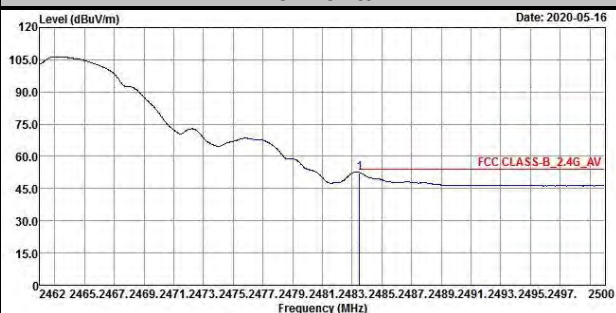


##### Vertical

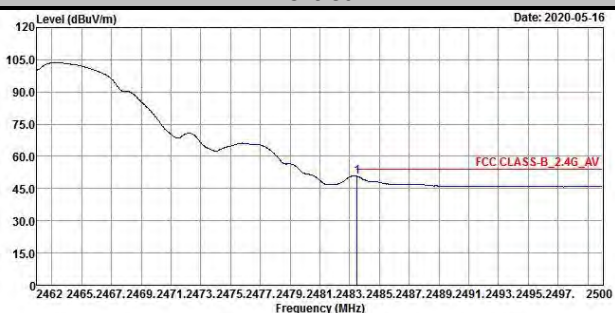


#### Average

##### Horizontal



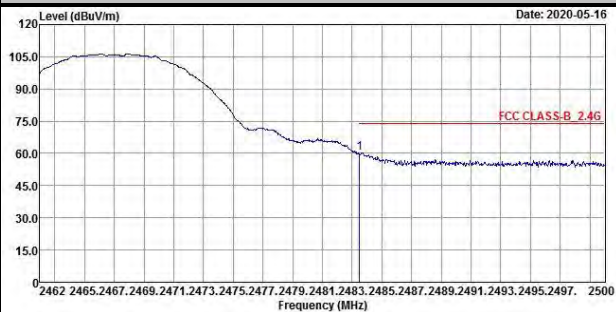
##### Vertical



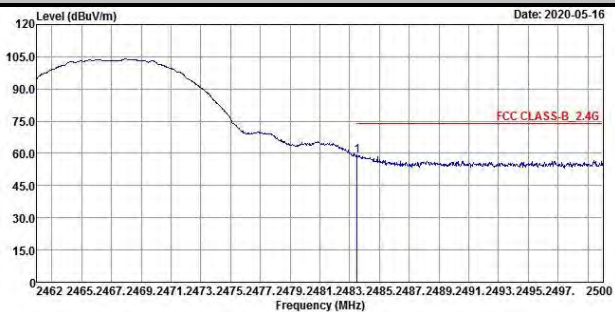
### Ch 12

#### Peak

##### Horizontal

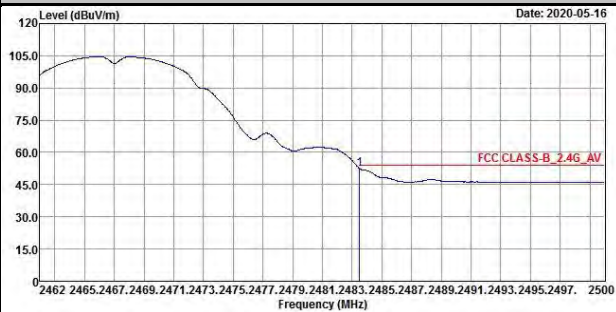


##### Vertical

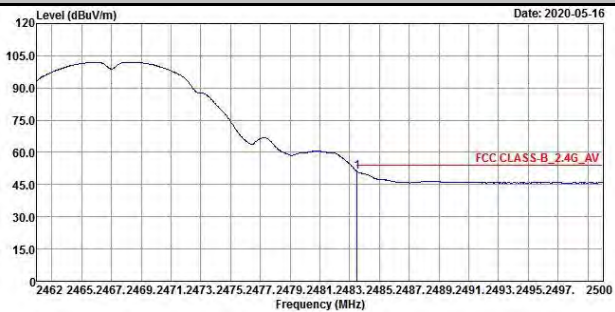


#### Average

##### Horizontal



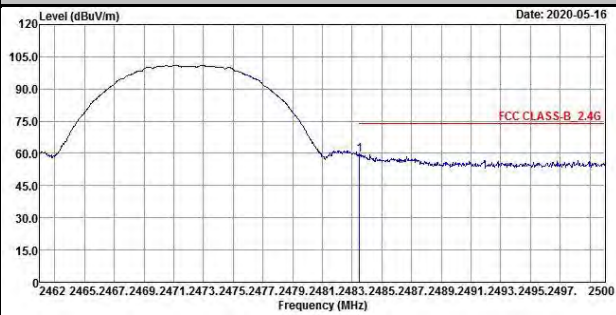
##### Vertical



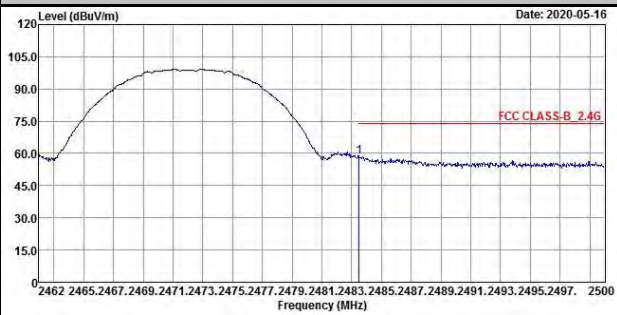
**Ch 13**

**Peak**

**Horizontal**

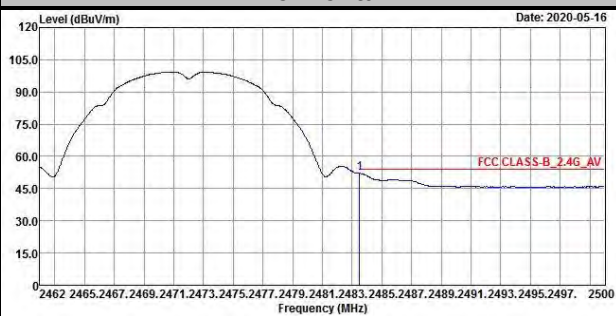


**Vertical**

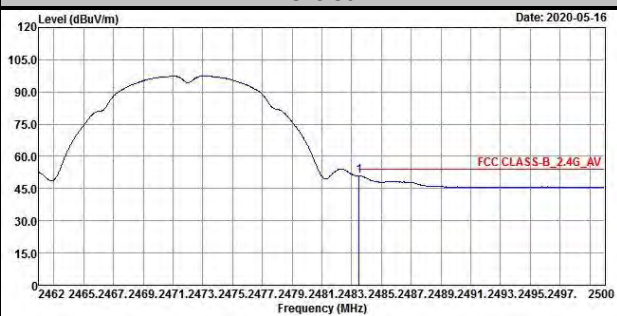


**Average**

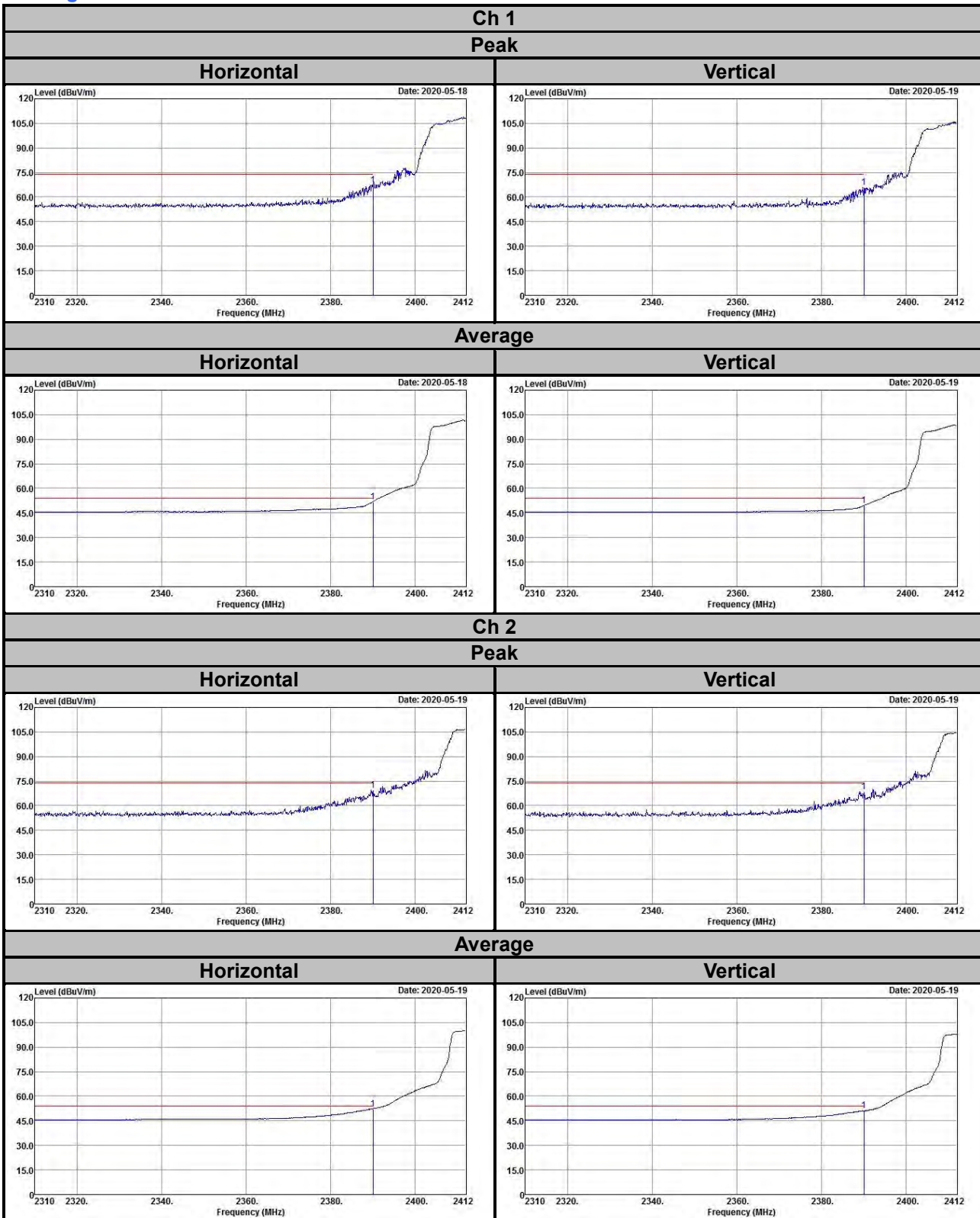
**Horizontal**



**Vertical**



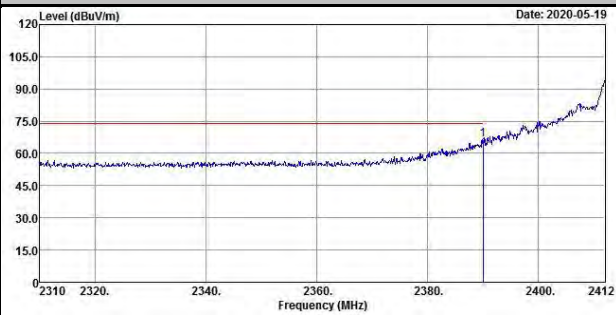
802.11g



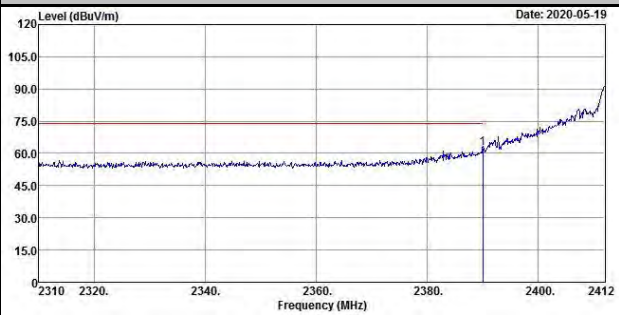
### Ch 3

#### Peak

##### Horizontal

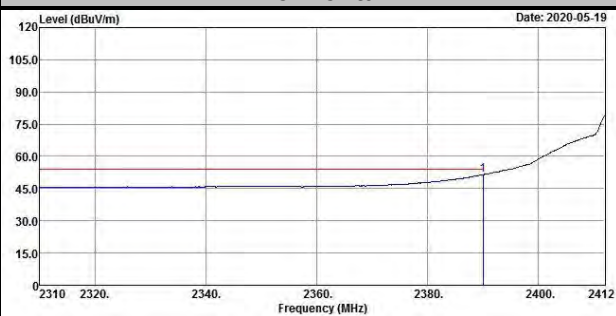


##### Vertical

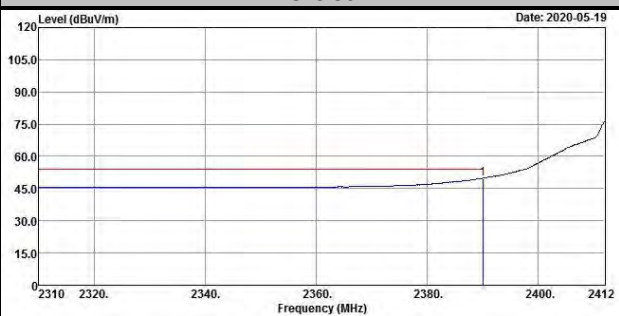


#### Average

##### Horizontal



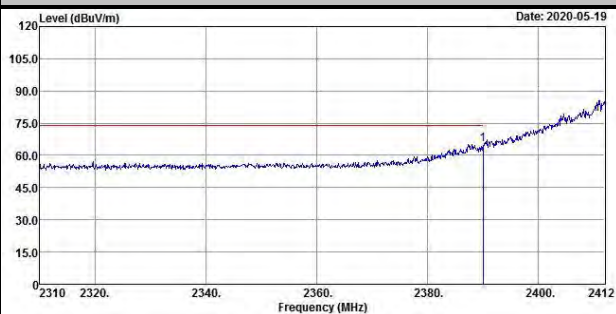
##### Vertical



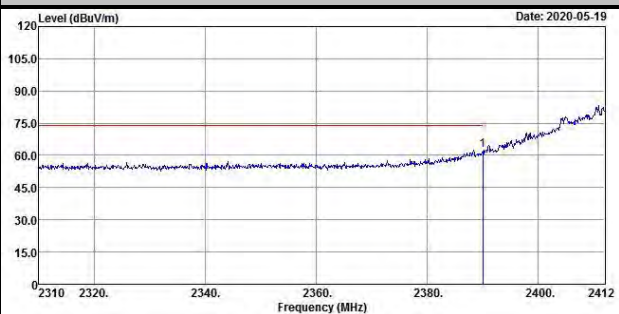
### Ch 4

#### Peak

##### Horizontal

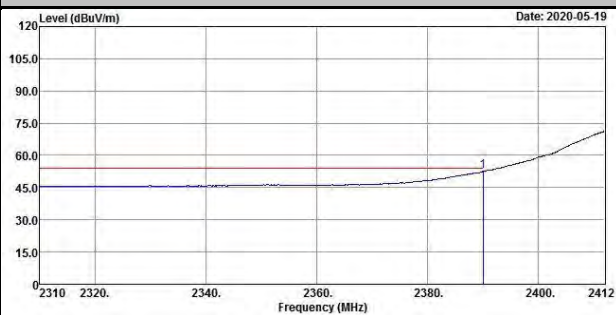


##### Vertical

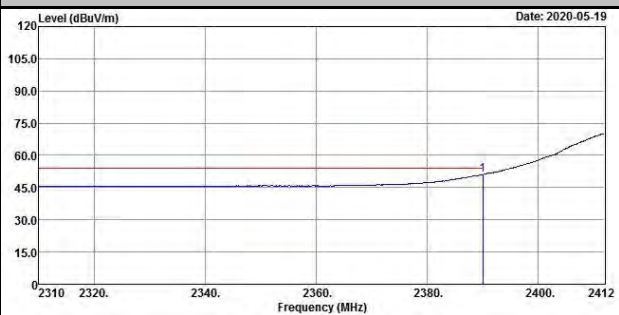


#### Average

##### Horizontal



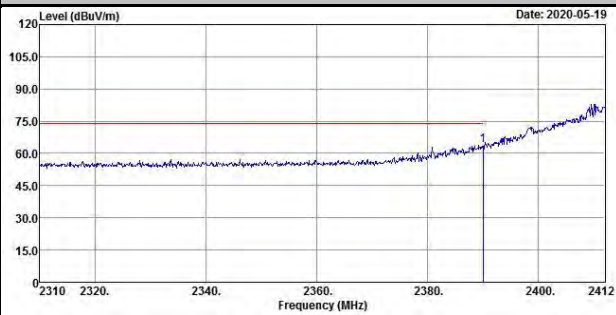
##### Vertical



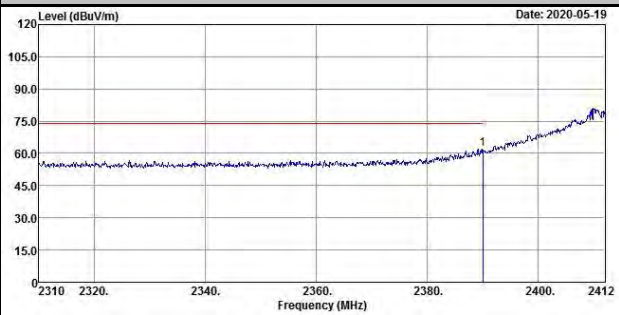


### Ch 5 Peak

#### Horizontal

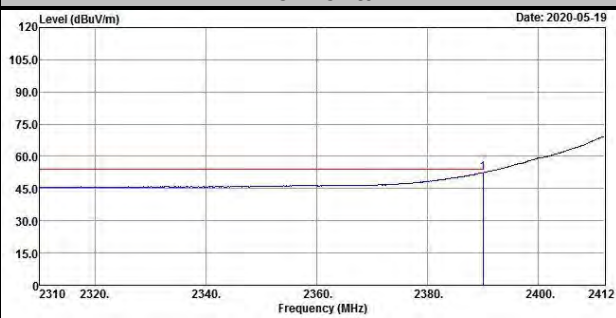


#### Vertical

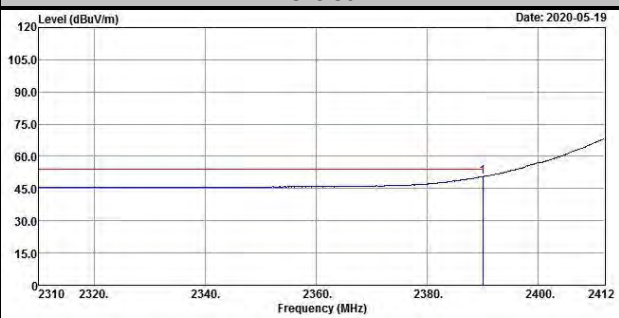


### Average

#### Horizontal

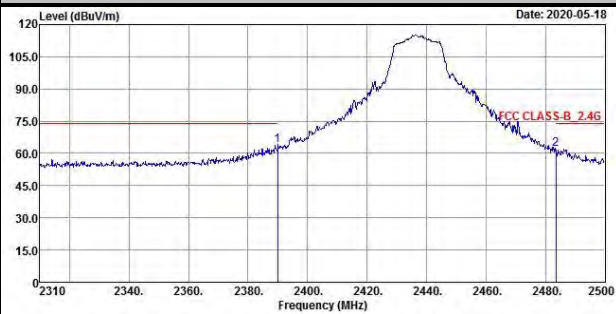


#### Vertical

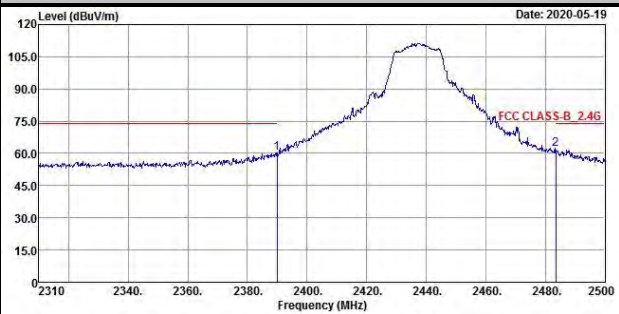


### Ch 6 Peak

#### Horizontal

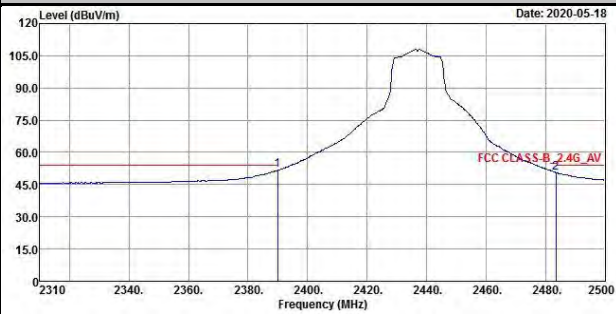


#### Vertical

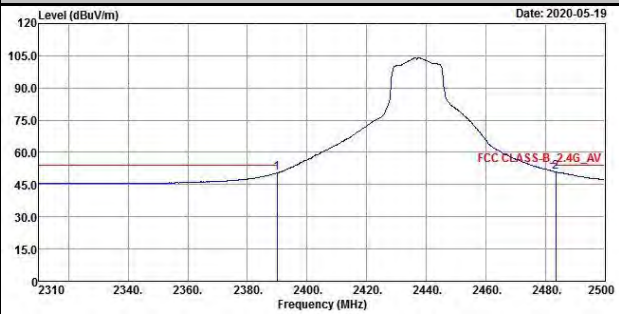


### Average

#### Horizontal



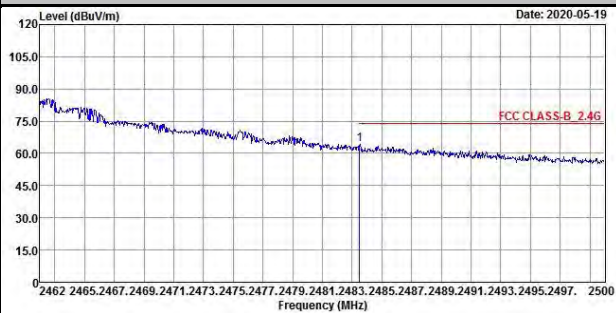
#### Vertical



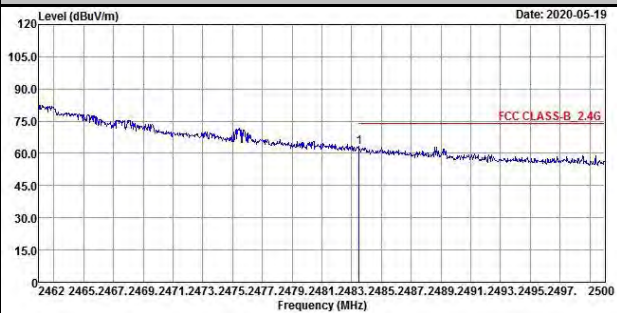
### Ch 7

#### Peak

##### Horizontal

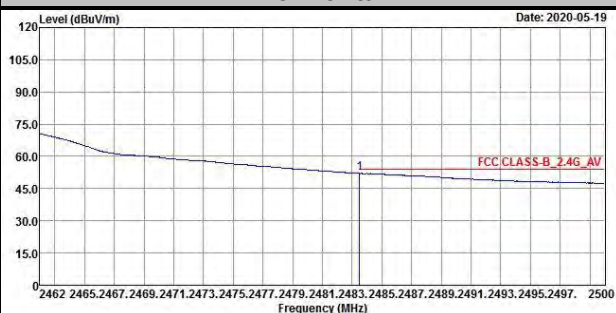


##### Vertical

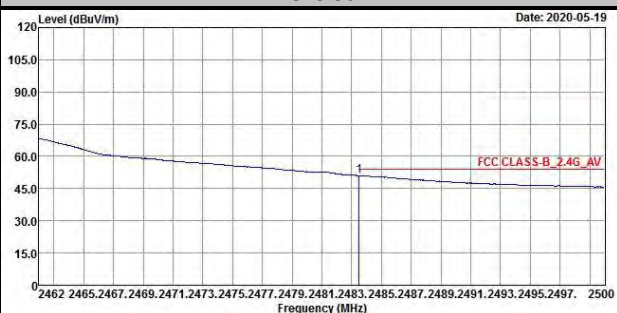


#### Average

##### Horizontal



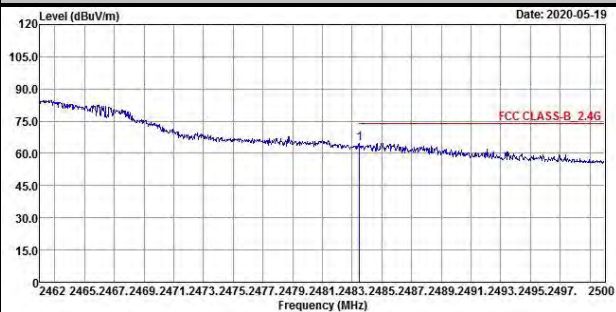
##### Vertical



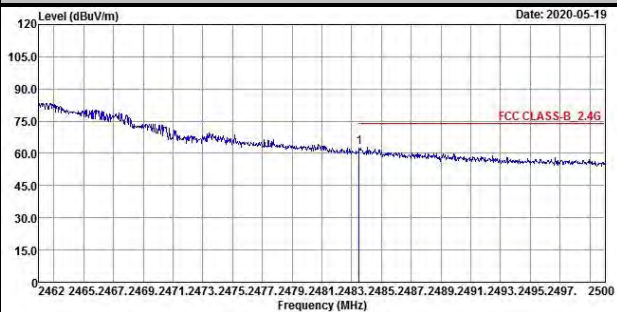
### Ch 8

#### Peak

##### Horizontal

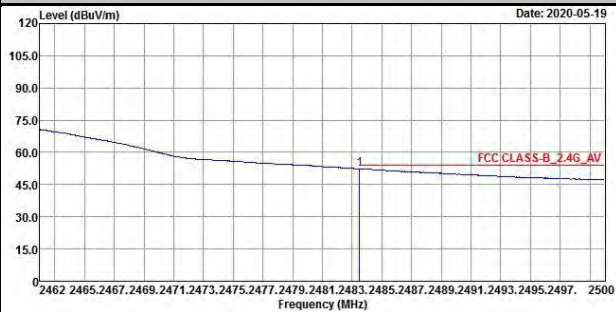


##### Vertical

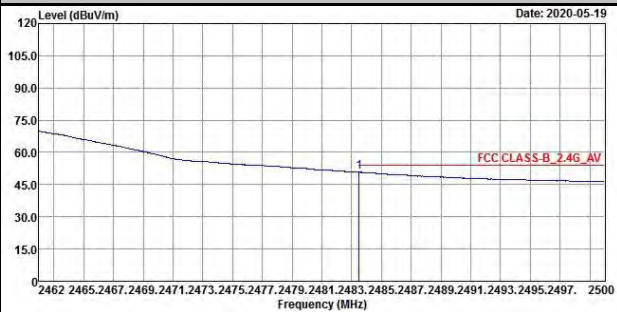


#### Average

##### Horizontal



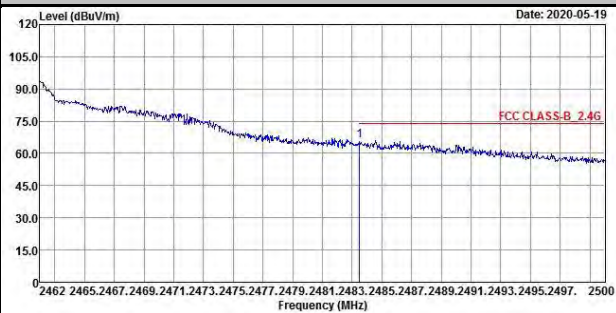
##### Vertical



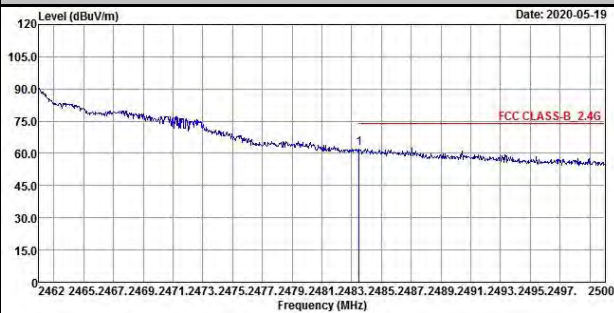
### Ch 9

#### Peak

##### Horizontal

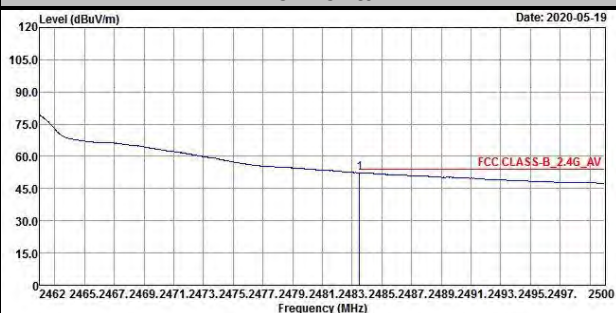


##### Vertical

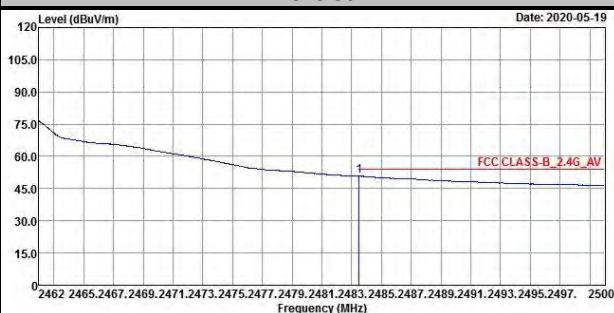


#### Average

##### Horizontal



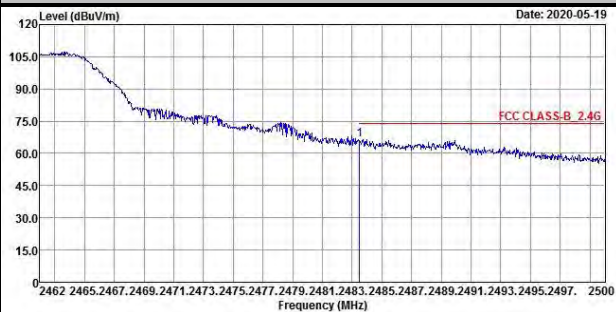
##### Vertical



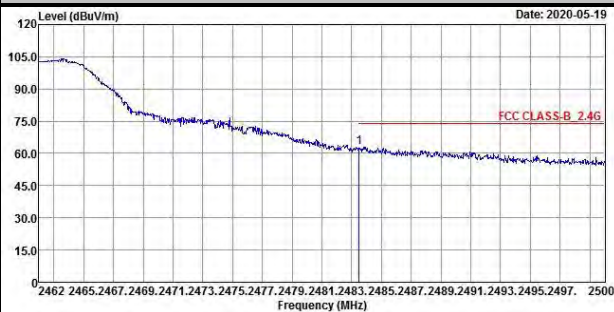
### Ch 10

#### Peak

##### Horizontal

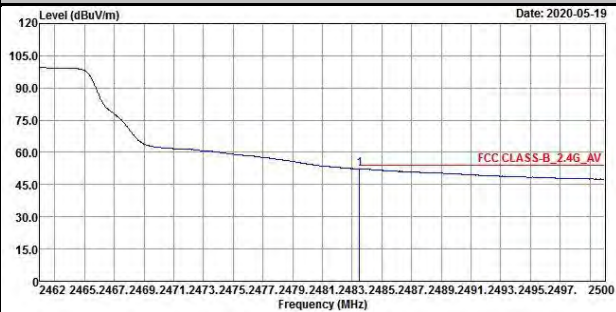


##### Vertical

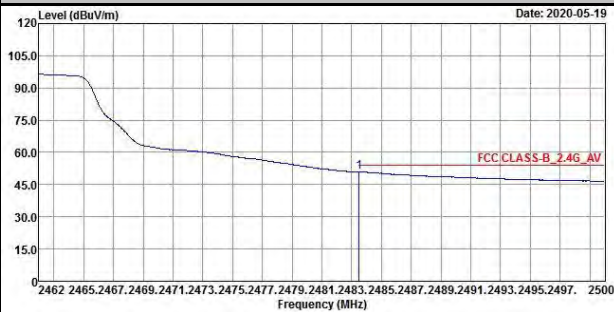


#### Average

##### Horizontal



##### Vertical

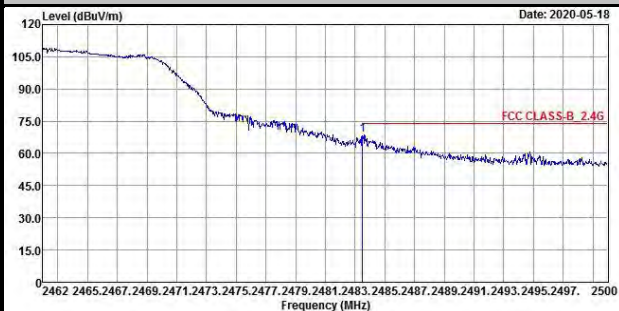




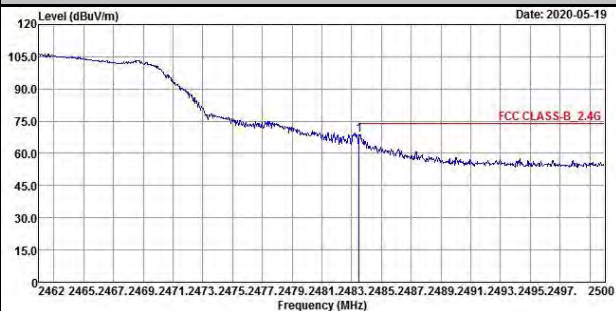
### Ch 11

#### Peak

##### Horizontal

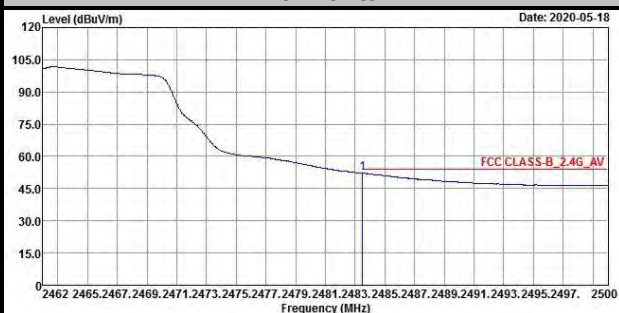


##### Vertical

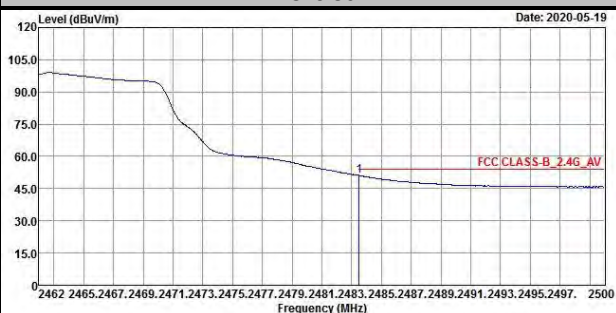


#### Average

##### Horizontal



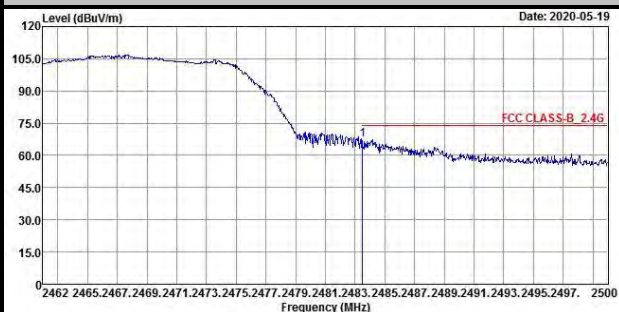
##### Vertical



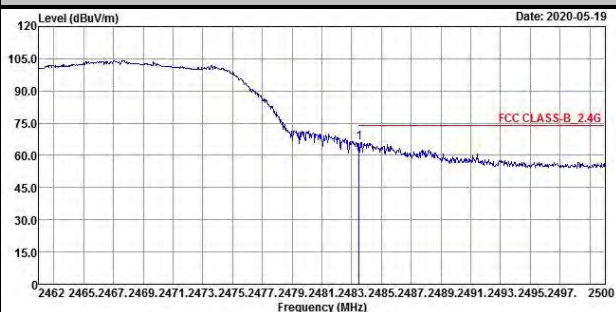
### Ch 12

#### Peak

##### Horizontal



##### Vertical

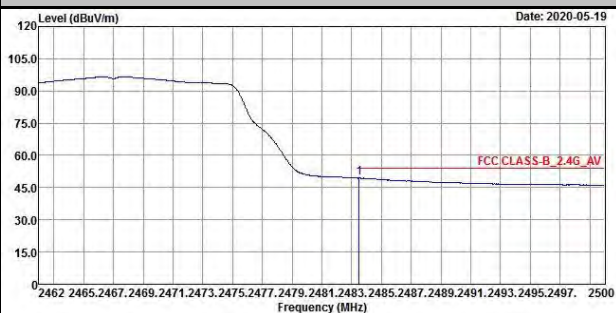


#### Average

##### Horizontal



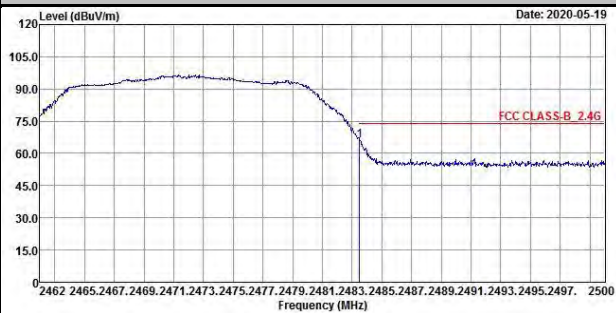
##### Vertical



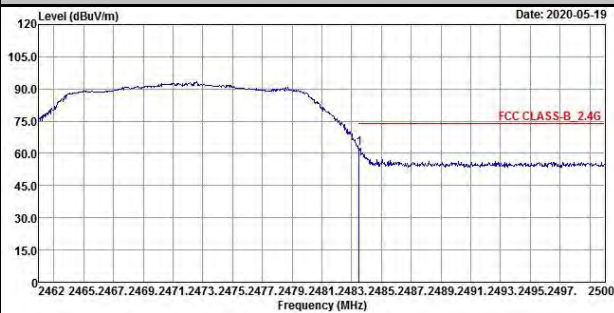
**Ch 13**

**Peak**

**Horizontal**



**Vertical**

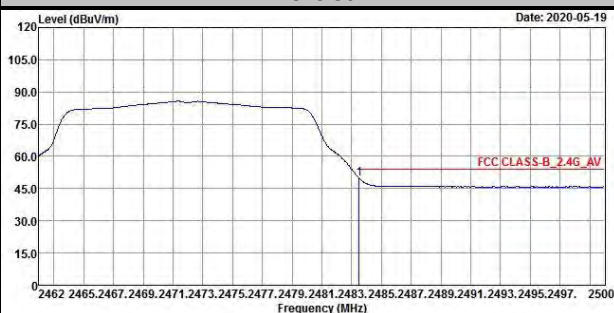


**Average**

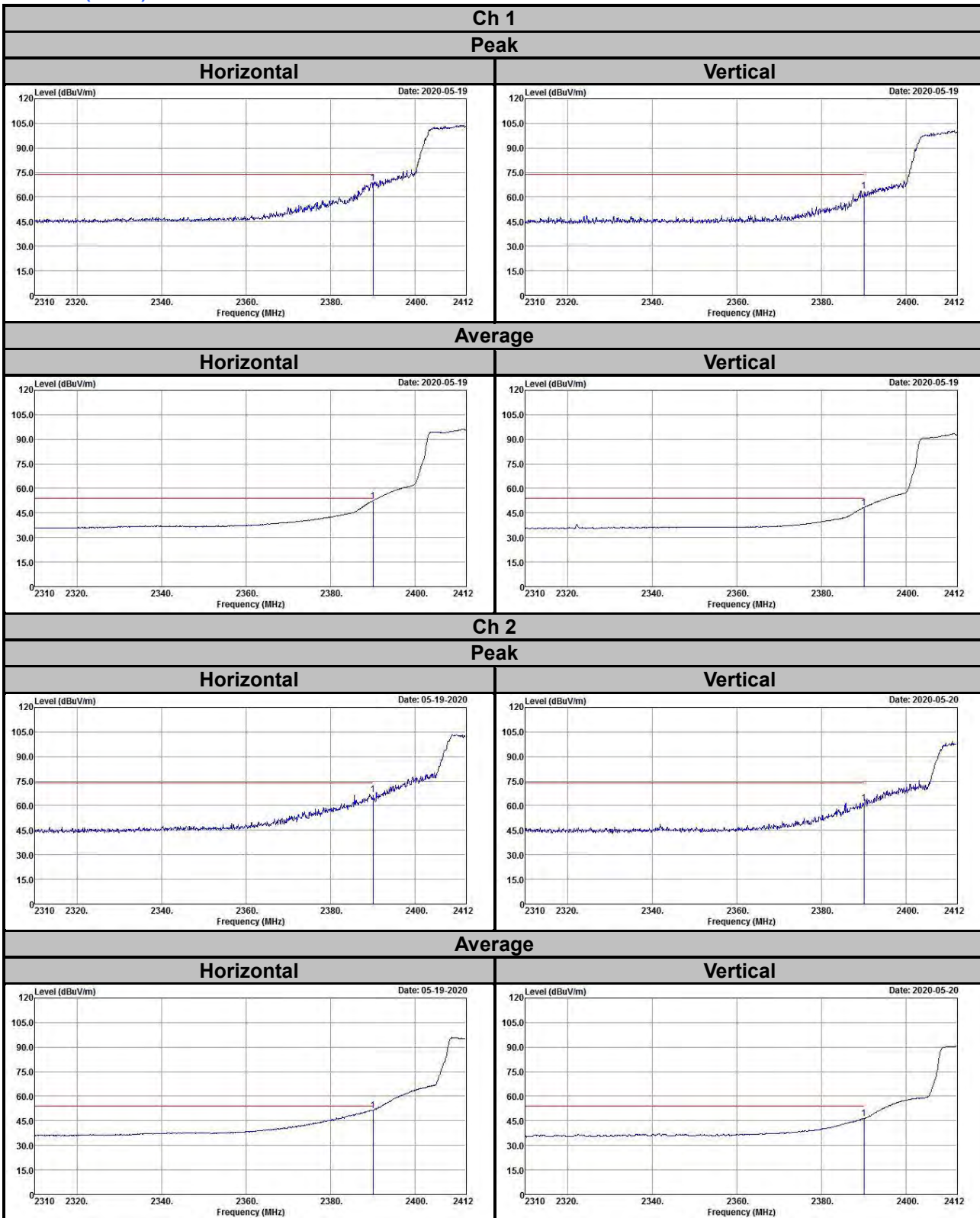
**Horizontal**



**Vertical**



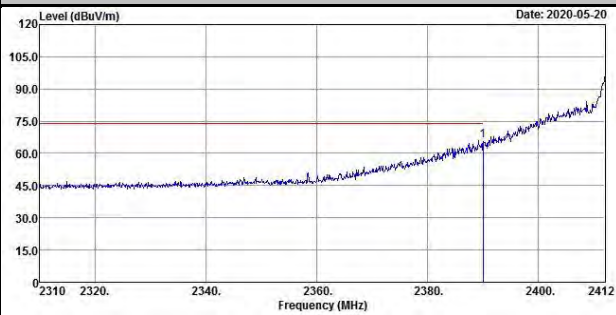
802.11n (HT20)



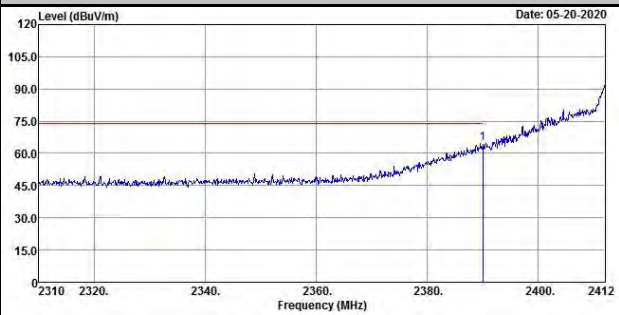
### Ch 3

#### Peak

##### Horizontal

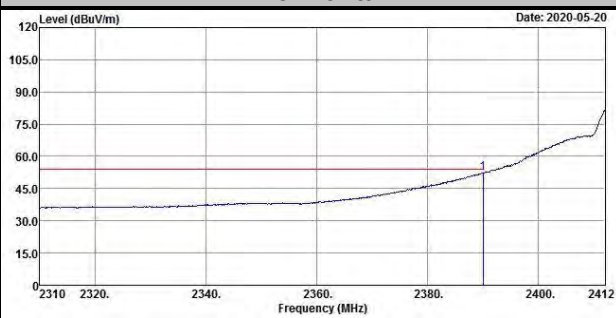


##### Vertical

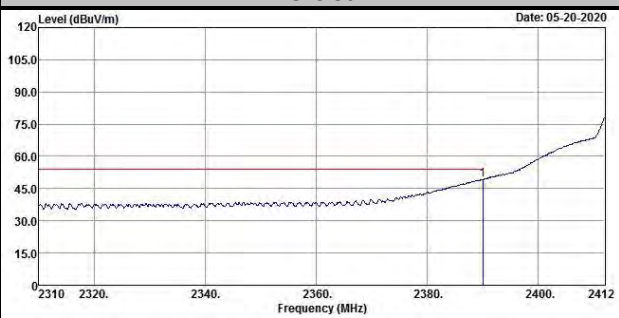


#### Average

##### Horizontal



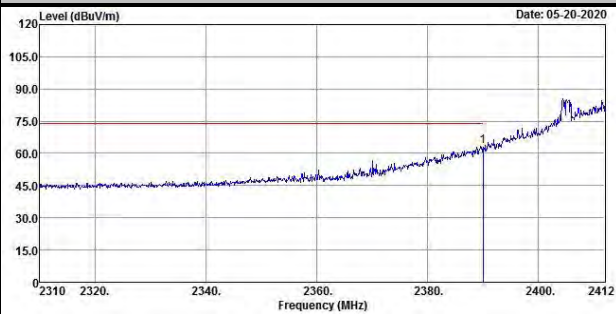
##### Vertical



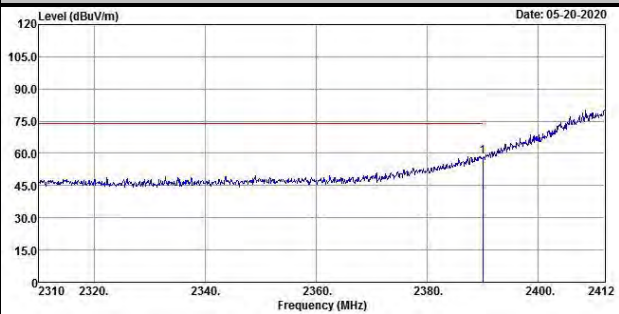
### Ch 4

#### Peak

##### Horizontal

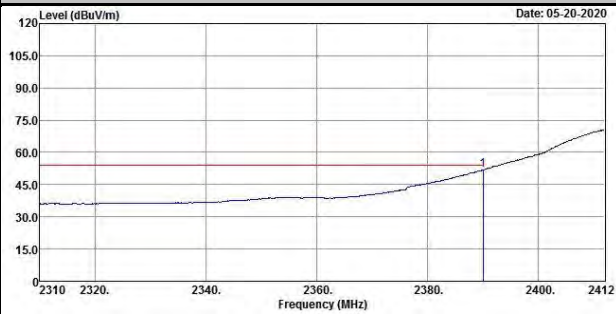


##### Vertical

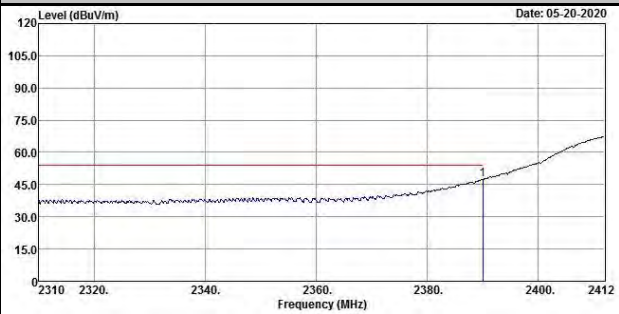


#### Average

##### Horizontal



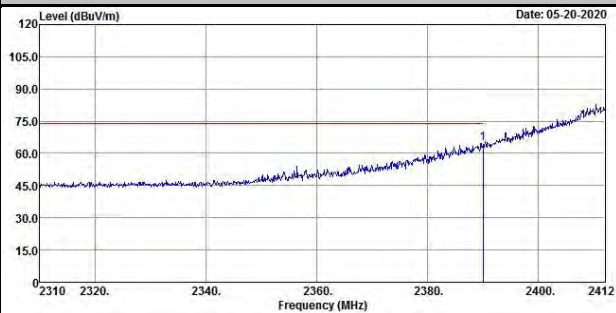
##### Vertical



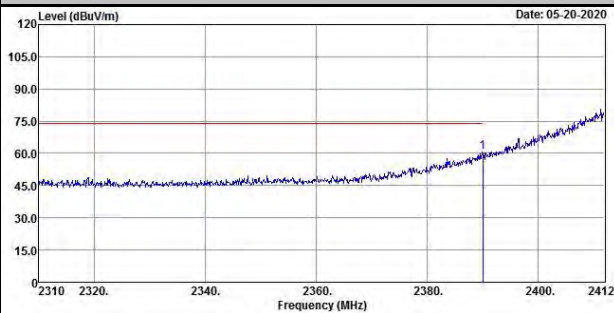


**Ch 5**  
**Peak**

**Horizontal**

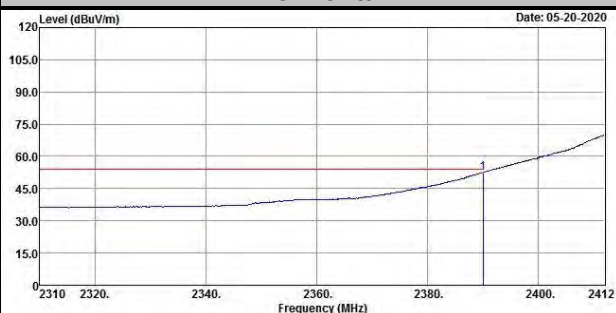


**Vertical**

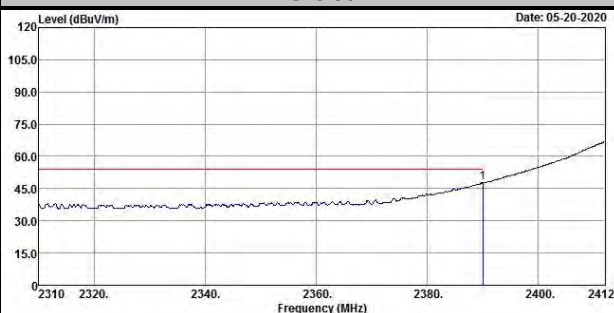


**Average**

**Horizontal**

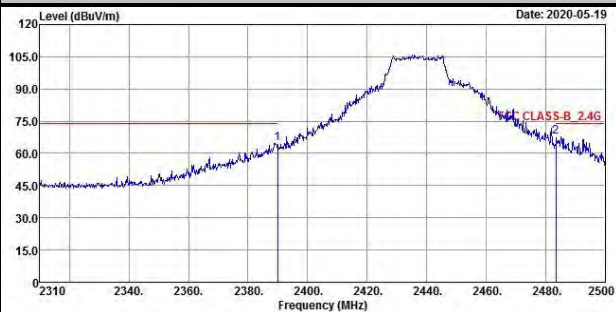


**Vertical**

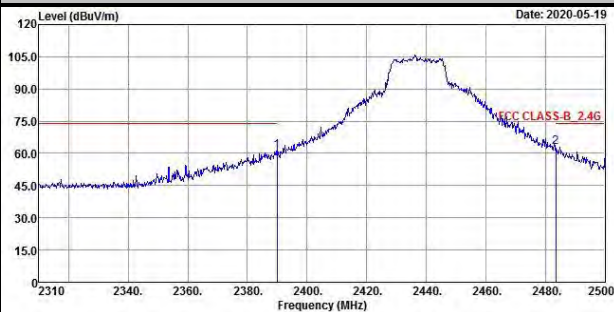


**Ch 6**  
**Peak**

**Horizontal**

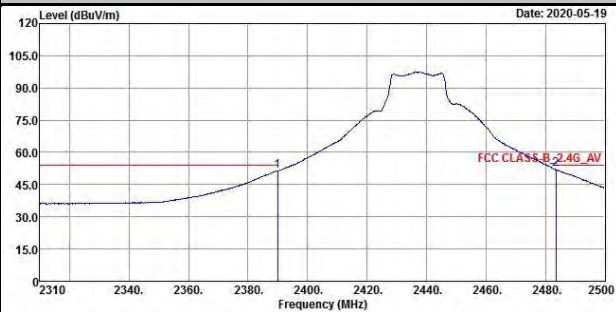


**Vertical**

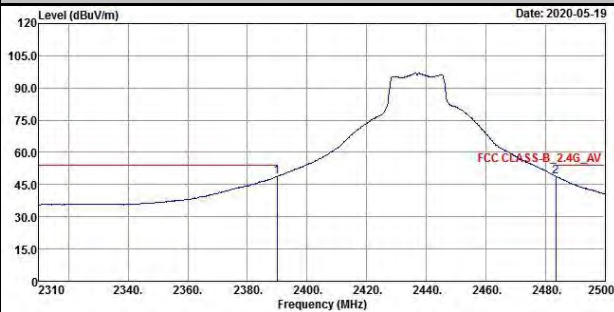


**Average**

**Horizontal**



**Vertical**

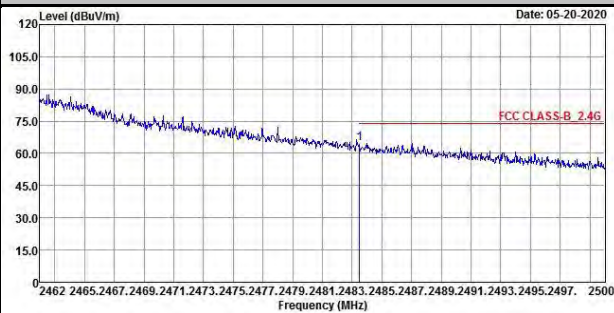




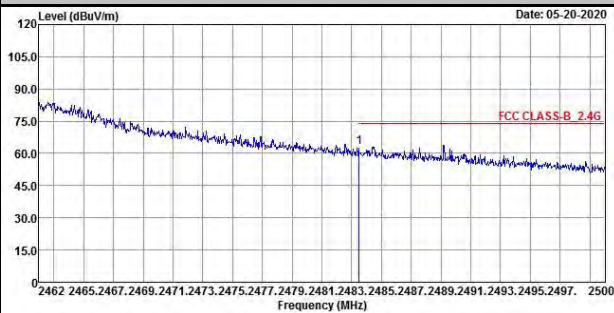
### Ch 7

#### Peak

##### Horizontal

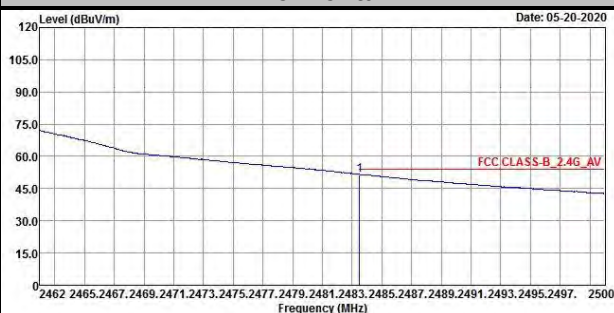


##### Vertical

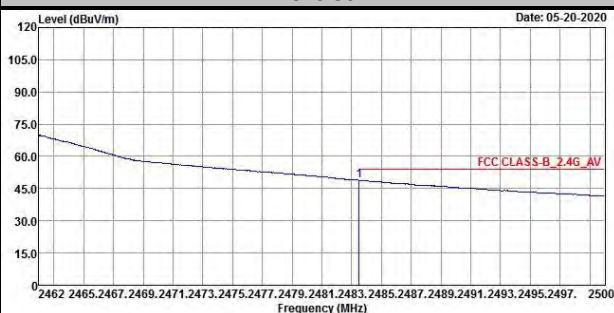


#### Average

##### Horizontal



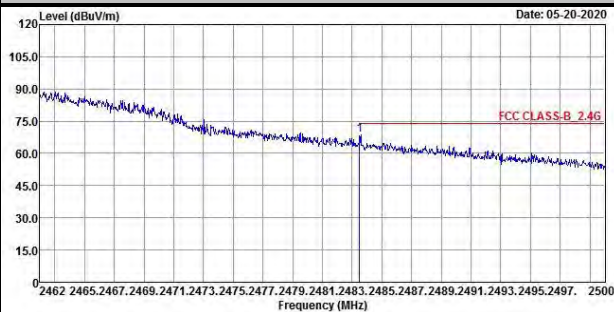
##### Vertical



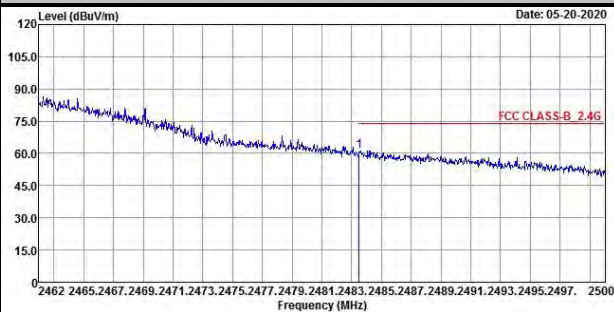
### Ch 8

#### Peak

##### Horizontal

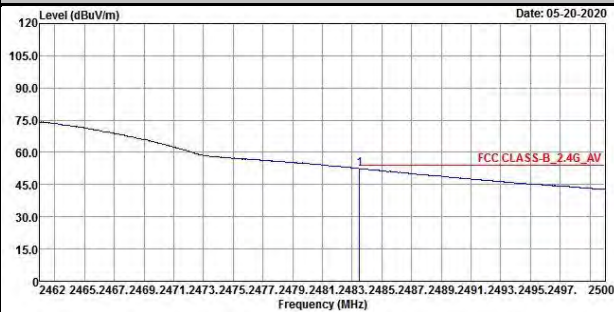


##### Vertical

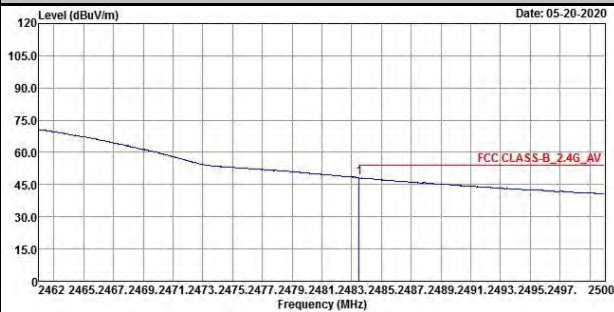


#### Average

##### Horizontal



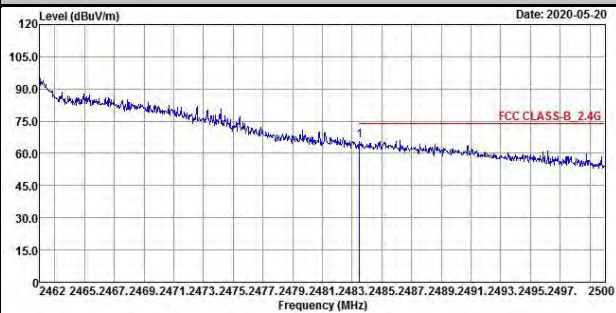
##### Vertical



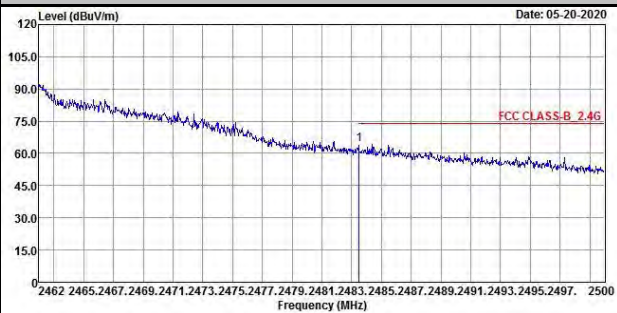
### Ch 9

#### Peak

##### Horizontal

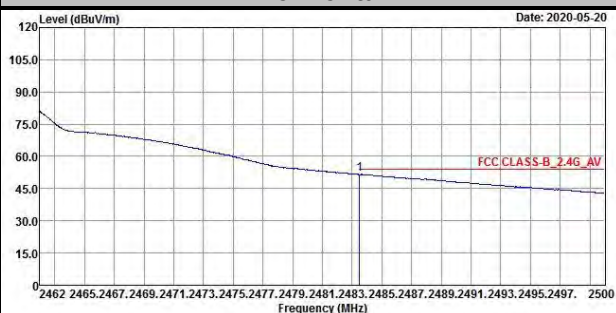


##### Vertical

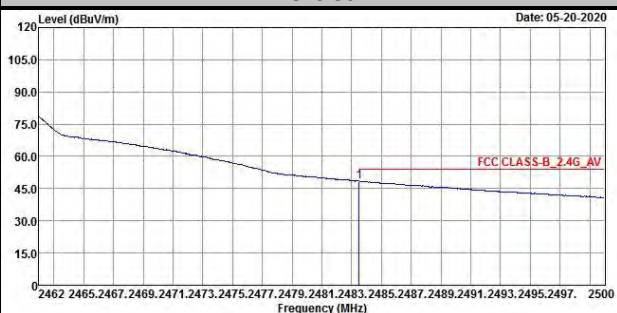


#### Average

##### Horizontal



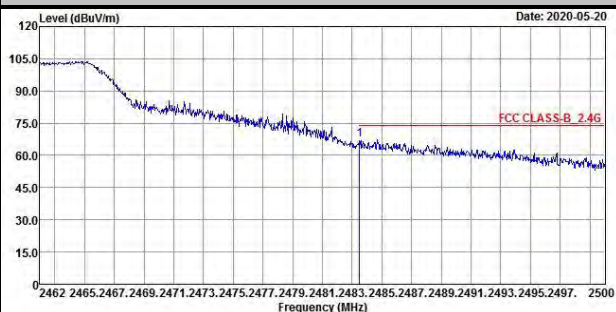
##### Vertical



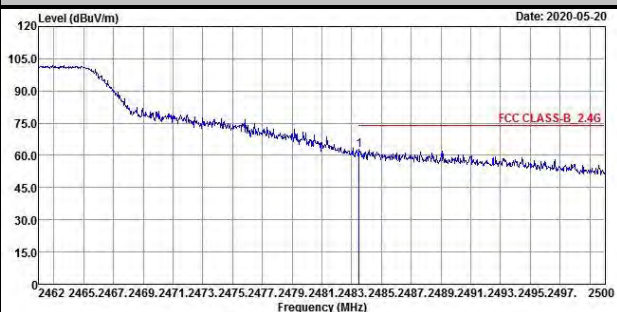
### Ch 10

#### Peak

##### Horizontal

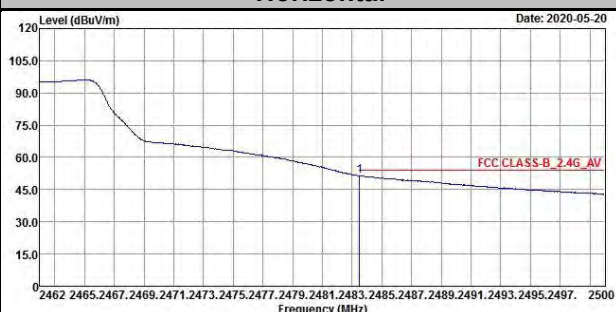


##### Vertical

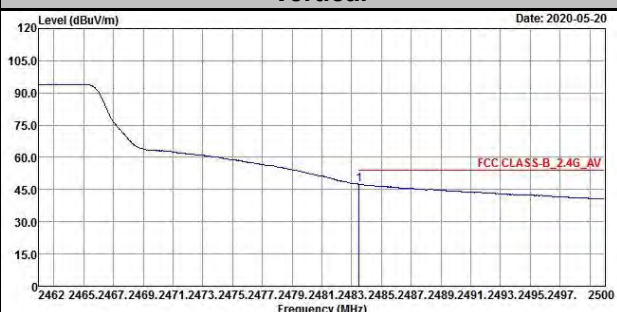


#### Average

##### Horizontal



##### Vertical

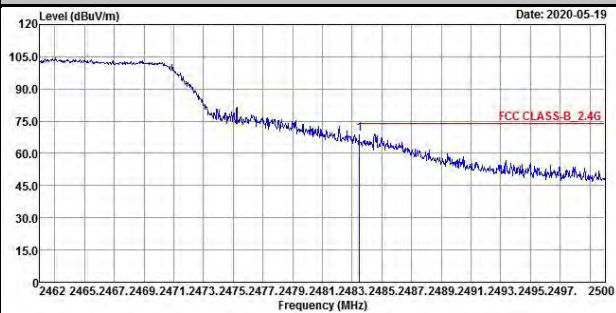




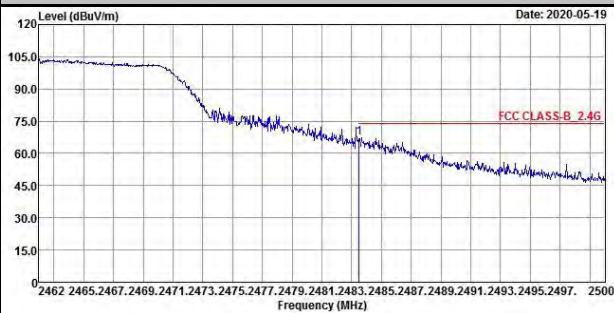
### Ch 11

#### Peak

##### Horizontal

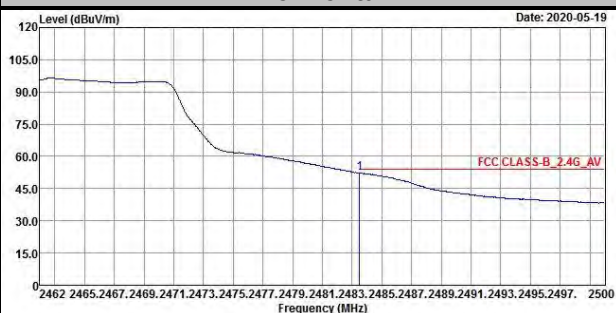


##### Vertical

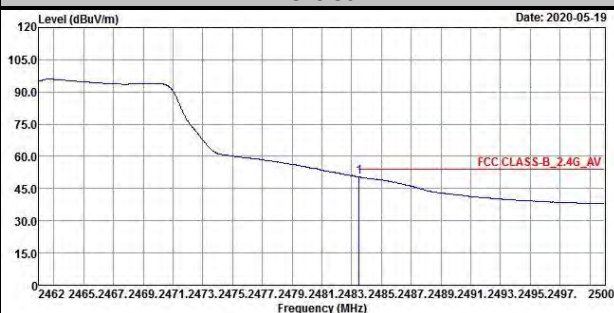


#### Average

##### Horizontal



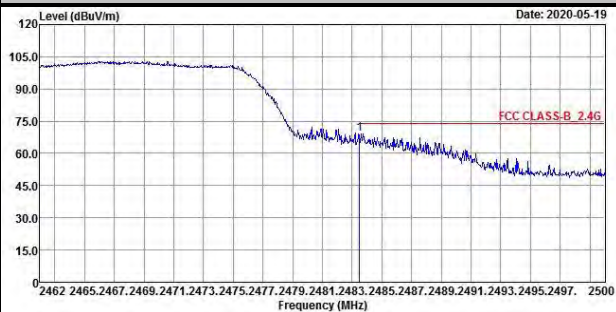
##### Vertical



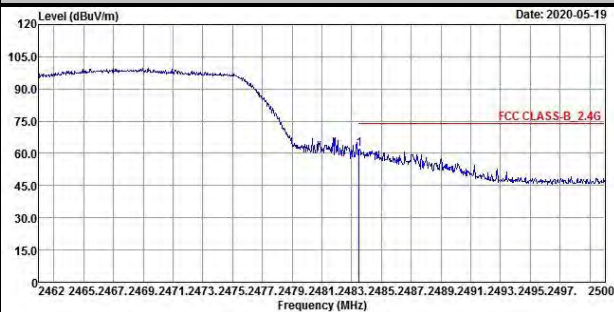
### Ch 12

#### Peak

##### Horizontal

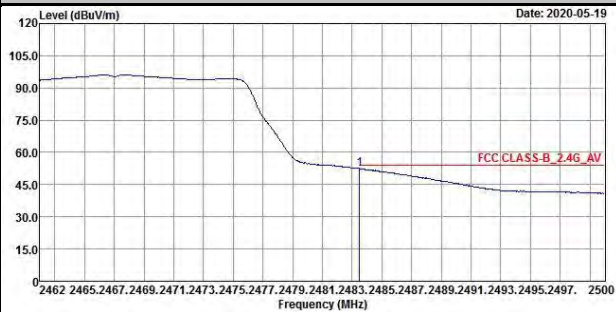


##### Vertical



#### Average

##### Horizontal



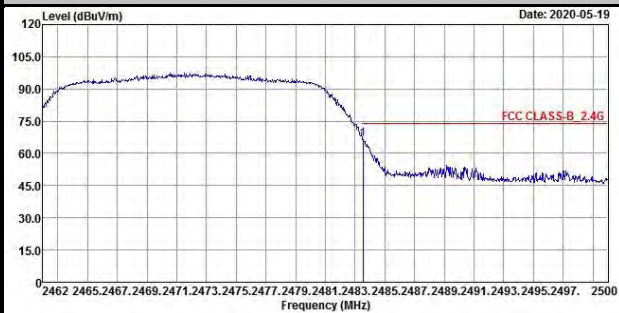
##### Vertical



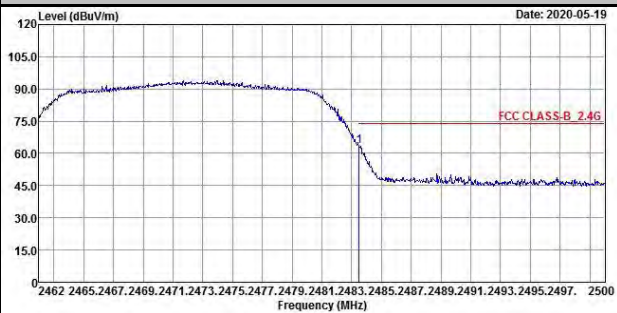
**Ch 13**

**Peak**

**Horizontal**



**Vertical**

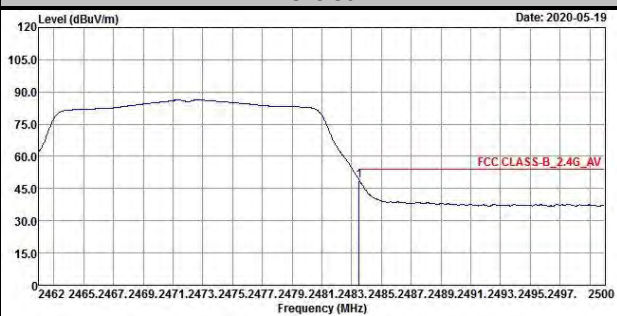


**Average**

**Horizontal**



**Vertical**



## Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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