



# FCC RF Test Report

**APPLICANT** : MiTAC Digital Technology Corporation  
**EQUIPMENT** : Tablet  
**BRAND NAME** : Mitac, Magellan  
**MODEL NAME** : N536B  
**FCC ID** : P4Q-N536B  
**STANDARD** : FCC Part 15 Subpart C §15.247  
**CLASSIFICATION** : (DTS) Digital Transmission System

The product was received on Mar. 23, 2018 and testing was completed on May 27, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager



## **SPORTON INTERNATIONAL INC.**

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SPORTON INTERNATIONAL INC.

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FCC ID: P4Q-N536B

Page Number : 1 of 35

Report Issued Date : Jun. 08, 2018

Report Version : Rev. 01

Report Template No.: BU5-FR15CWLAC MA Version 2.0



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### REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR720610-10C	Rev. 01	Initial issue of report	Jun. 08, 2018



### SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Pass	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 2.19 dB at 2484.080 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 5.76 dB at 3.671 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-



# 1 General Description

## 1.1 Applicant

**MiTAC Digital Technology Corporation**

No.200, Wen Hua 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

## 1.2 Manufacturer

**MITAC Computer (Kunshan) Co., Ltd.**

No. 269, 2nd Avenue, District A, Comprehensive Free Trade Zone, 300 Kunshan, China

## 1.3 Product Feature of Equipment Under Test

WCDMA/LTE, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, Wi-Fi 5GHz 802.11a/n, NFC, and GNSS

Product Specification subjective to this standard	
Sample 1	EUT with SKU 3
Sample 2	EUT with SKU 4
Integrated WLAN Module	Brand Name: Qualcomm Model Name: WCN3660B
Antenna Type	WWAN: PIFA Antenna WLAN: Holder with FPC Antenna Bluetooth: Holder with FPC Antenna NFC : Loop Antenna GPS / Glonass : PATCH Antenna

Remark: All the tests were performed with Sample 1.

### <Sample Information>

Sample List		
SKU	SKU 3	SKU 4
Model name	N536B	N536B
WLAN	Support	Support
WWAN	Support (with voice)	Support (with voice)
RFID(13.56MHz)	Support	Support
Barcode	Support (SR)	Support (MR)
GPS	Support	Support

## 1.4 Modification of EUT

No modifications are made to the EUT during all test items.



### 1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

<b>Test Site</b>	SPORTON INTERNATIONAL INC.	
<b>Test Site Location</b>	No. 52, Hwa Ya 1 <sup>st</sup> Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	TH05-HY	CO05-HY

**Note:** The test site complies with ANSI C63.4 2014 requirement.

<b>Test Site</b>	SPORTON INTERNATIONAL INC.	
<b>Test Site Location</b>	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
<b>Test Site No.</b>	<b>Sporton Site No.</b>	
	03CH12-HY	

**Note:** The test site complies with ANSI C63.4 2014 requirement.

### 1.6 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- ANSI C63.10-2013

**Remark:**

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



## 2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.
  
- b. AC power line Conducted Emission was tested under maximum output power.

### 2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		



## 2.2 Test Mode

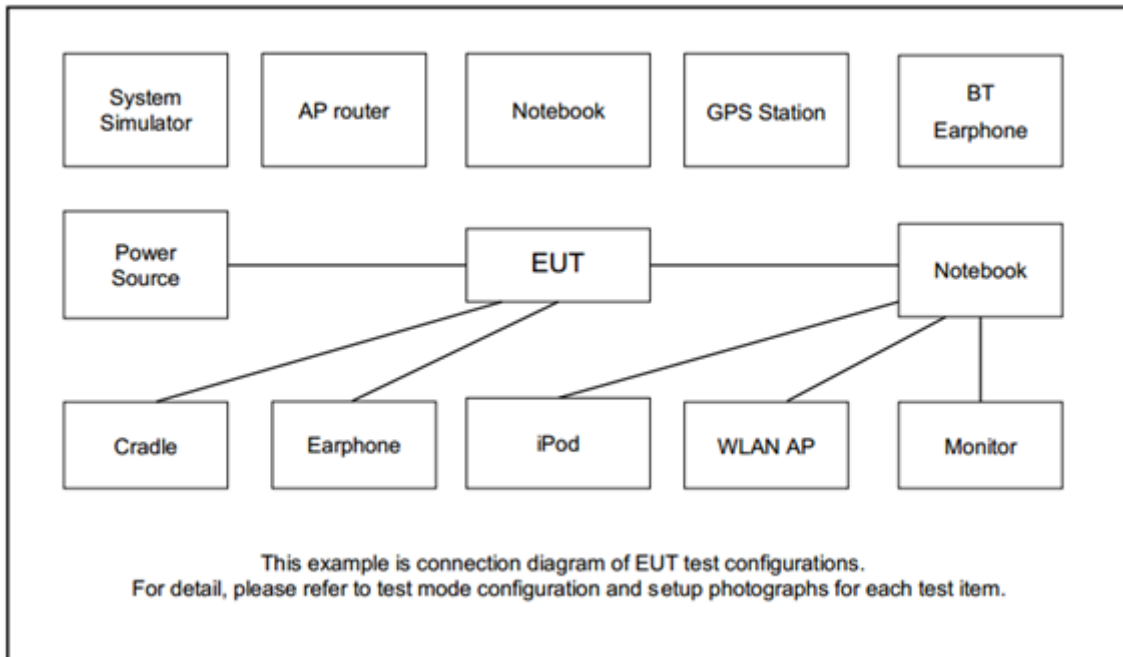
Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

Test Cases	
AC Conducted Emission	Mode 1 : WCDMA Band V Idle + Bluetooth Link + WLAN (2.4GHz) Link + NFC Link + Earphone + USB Cable (Charging from Adapter)



### 2.3 Connection Diagram of Test System



### 2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
3.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8m
4.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
5.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
6.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



## 2.5 EUT Operation Test Setup

The RF test items, utility “QRCT” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

## 2.6 Measurement Results Explanation Example

**For all conducted test items:**

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

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

*Offset = RF cable loss + attenuator factor.*

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

### 3 Test Result

#### 3.1 6dB and 99% Bandwidth Measurement

##### 3.1.1 Limit of 6dB and 99% Bandwidth

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

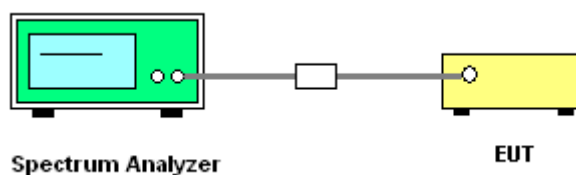
##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

##### 3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

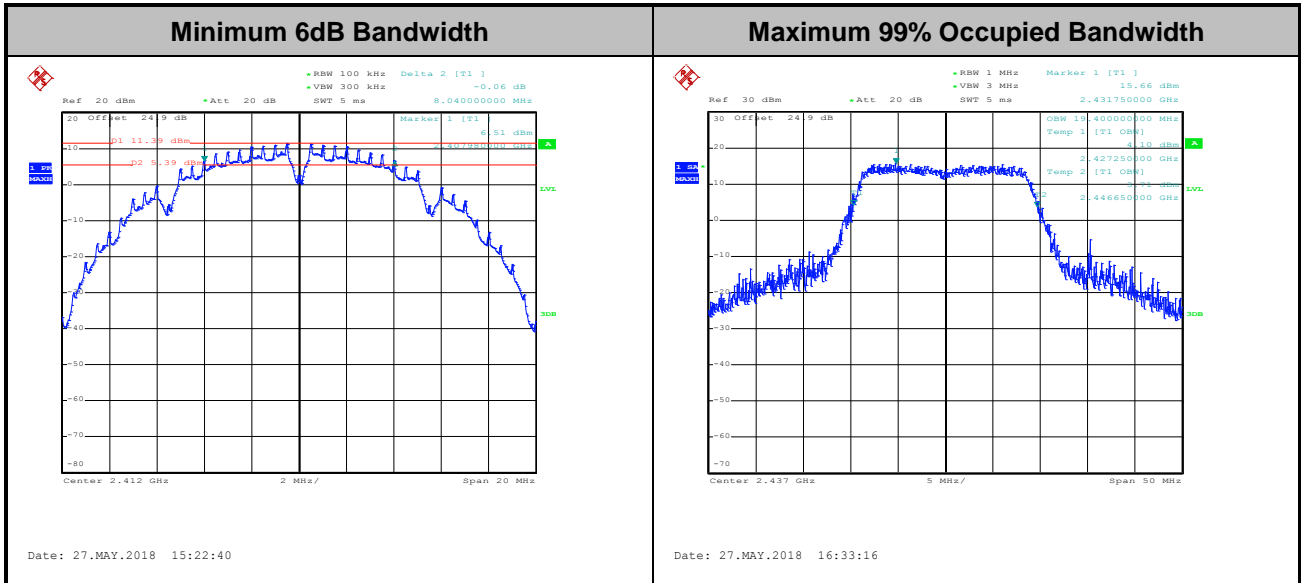
##### 3.1.4 Test Setup





### 3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

## 3.2 Output Power Measurement

### 3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

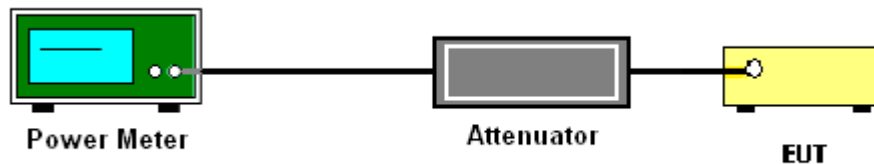
### 3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.1.3 PKPM1 Peak power meter method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

### 3.2.4 Test Setup



### 3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

### 3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A.



### **3.3 Power Spectral Density Measurement**

#### **3.3.1 Limit of Power Spectral Density**

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

#### **3.3.2 Measuring Instruments**

The measuring equipment is listed in the section 4 of this test report.

#### **3.3.3 Test Procedures**

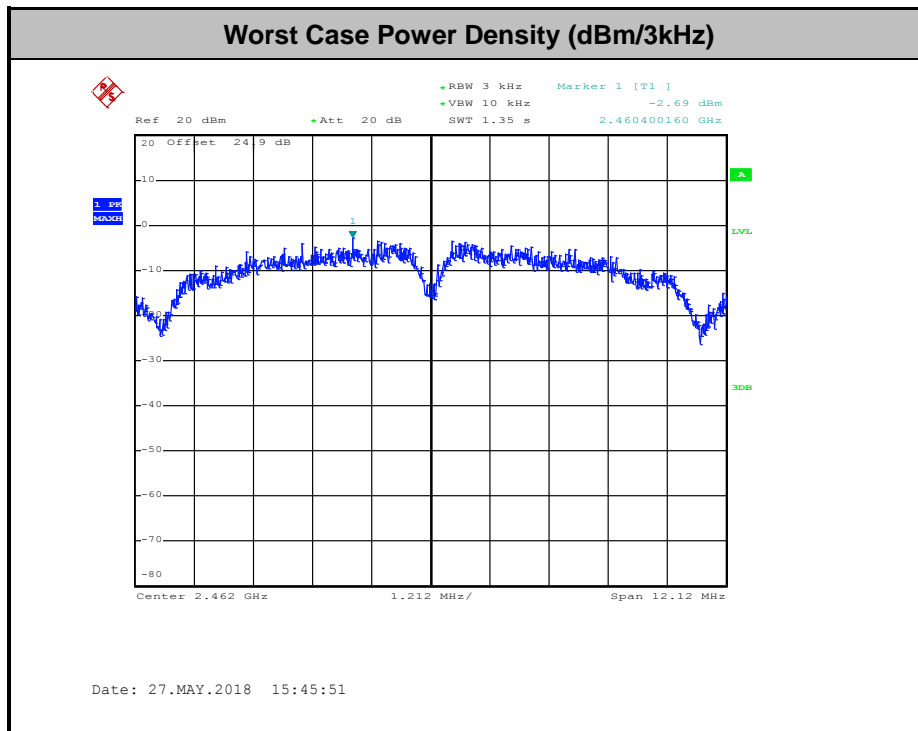
1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

### 3.3.4 Test Setup



### 3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



## 3.4 Conducted Band Edges and Spurious Emission Measurement

### 3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

### 3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

### 3.4.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

### 3.4.4 Test Setup





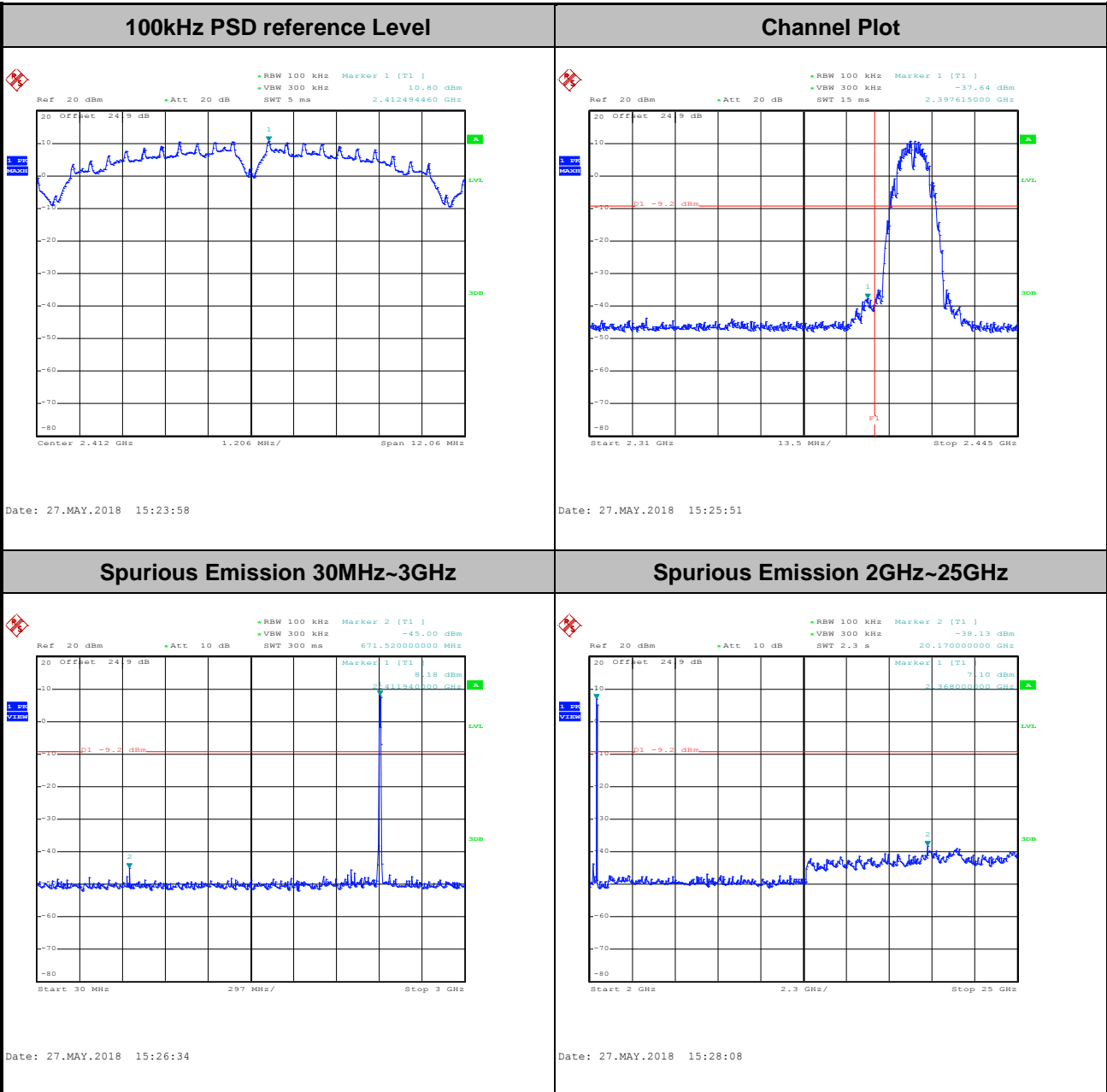


### 3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer : Tommy Lee	Temperature :	21~25°C
	Relative Humidity :	51~54%

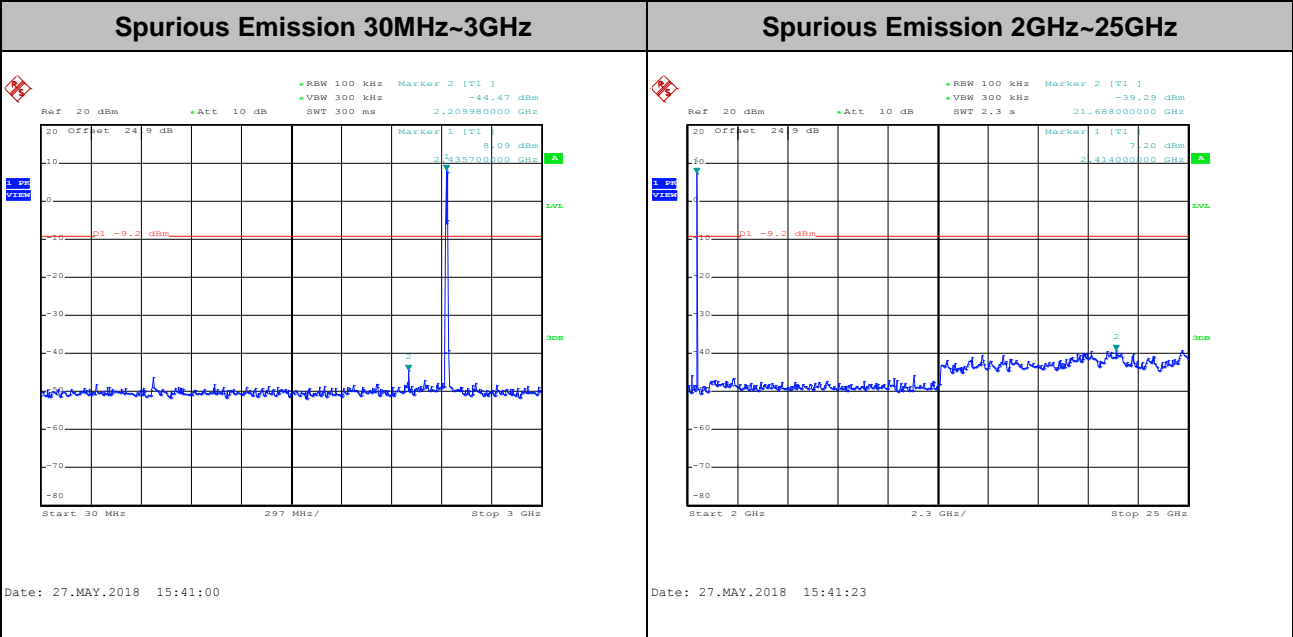
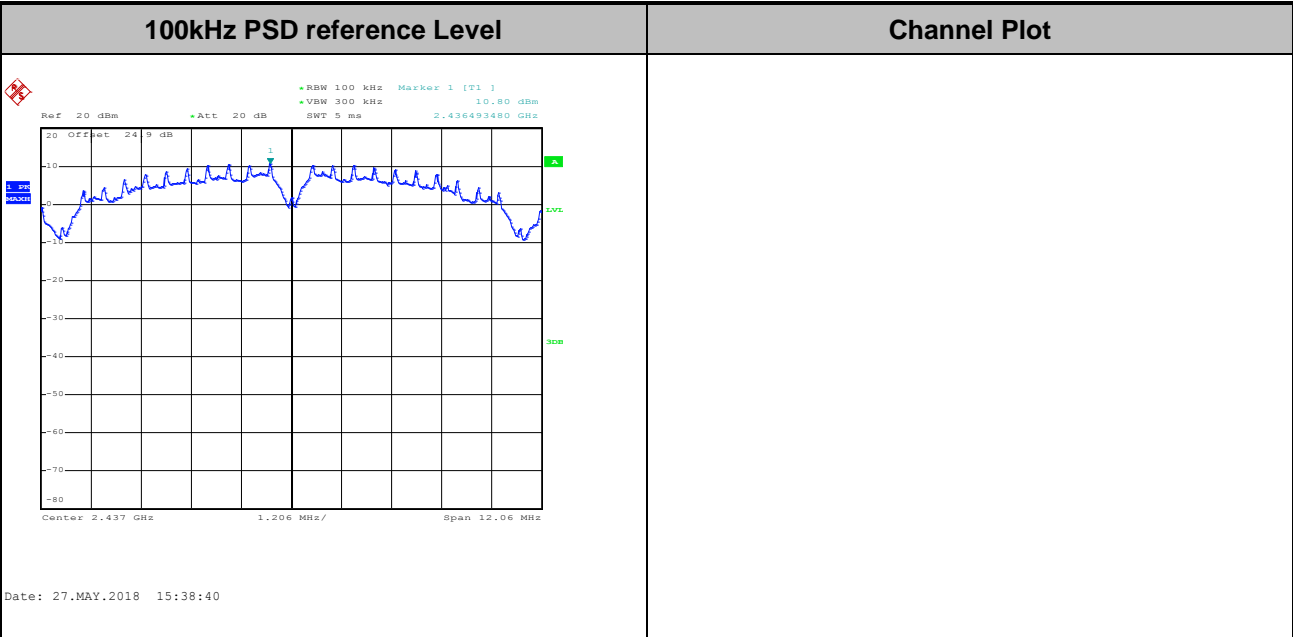
Number of TX = 1, Ant. 1 (Measured)

Test Mode :	802.11b	Test Channel :	01
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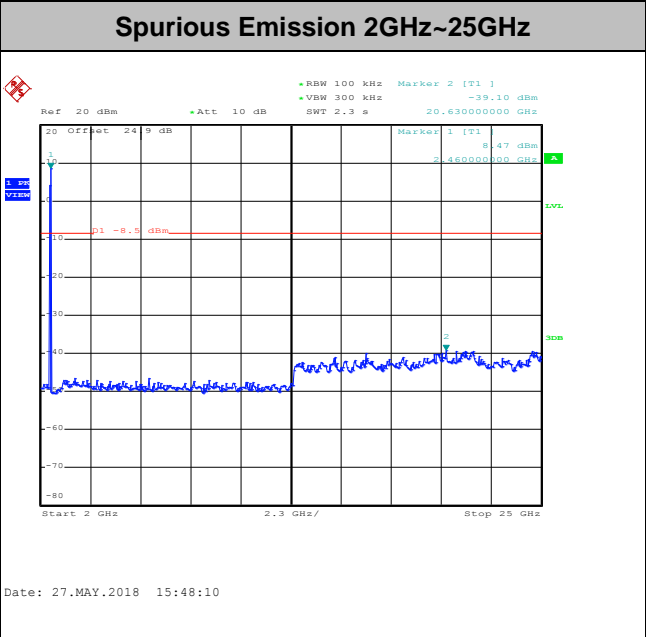
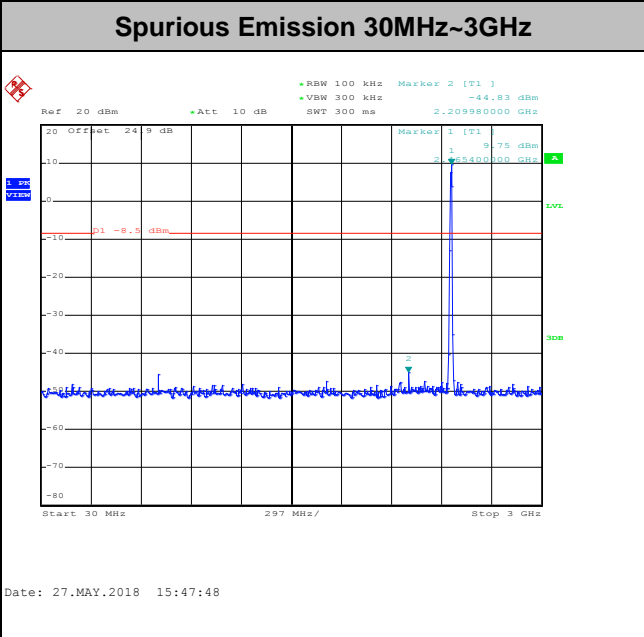
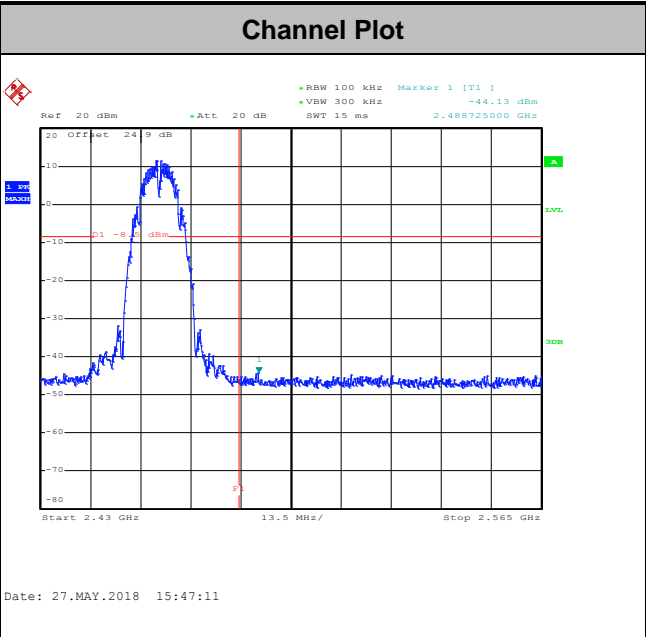
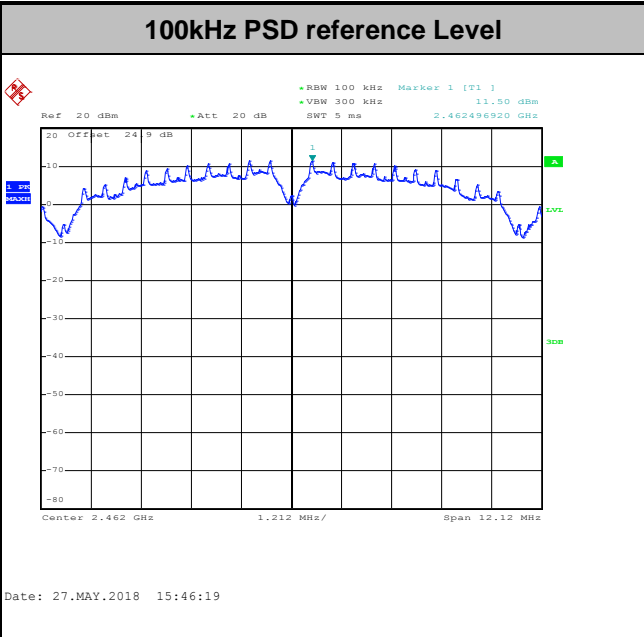


Test Mode :	802.11b	Test Channel :	06
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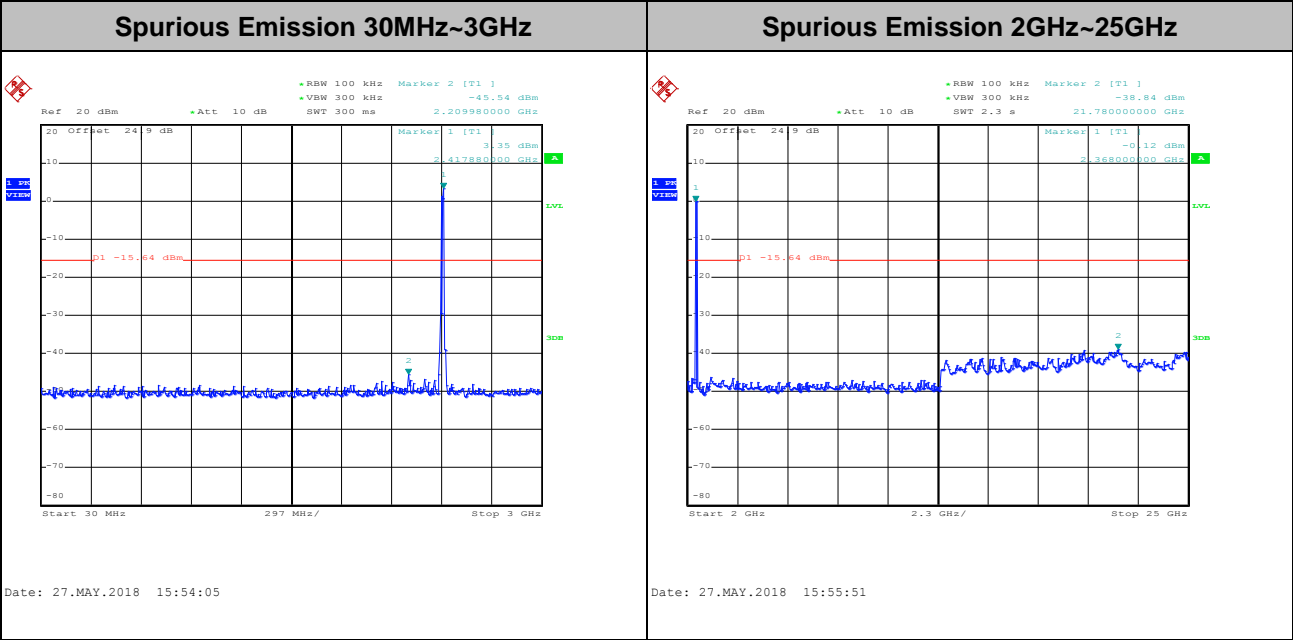
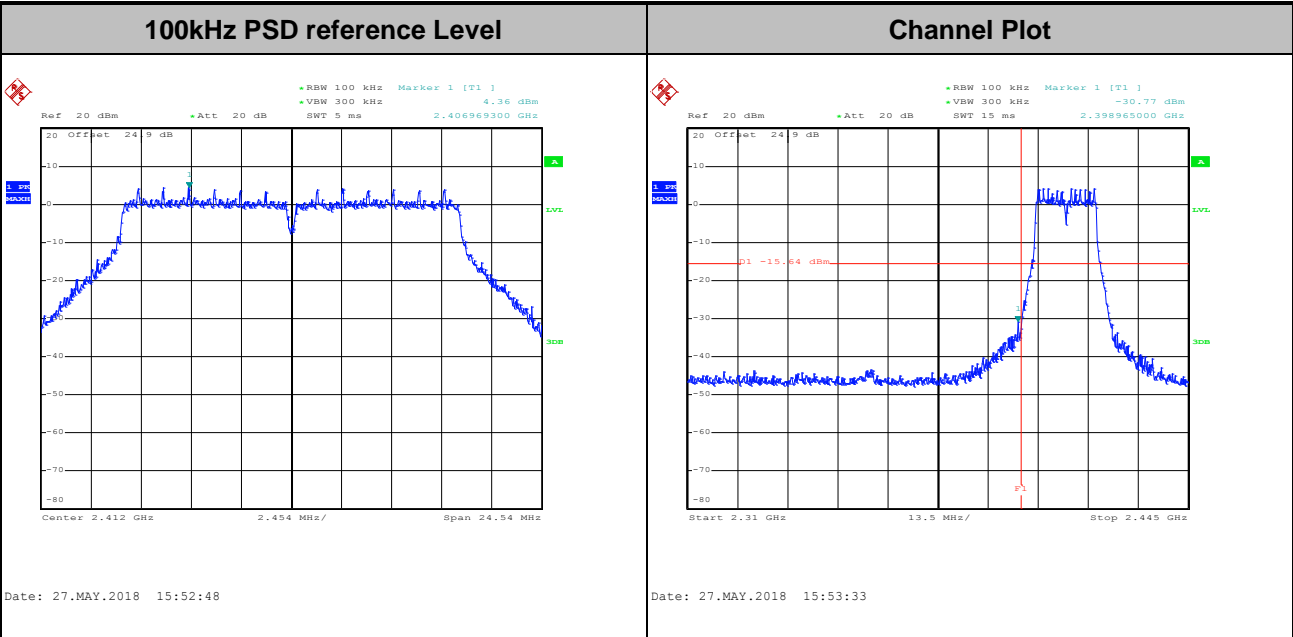


Test Mode :	802.11b	Test Channel :	11
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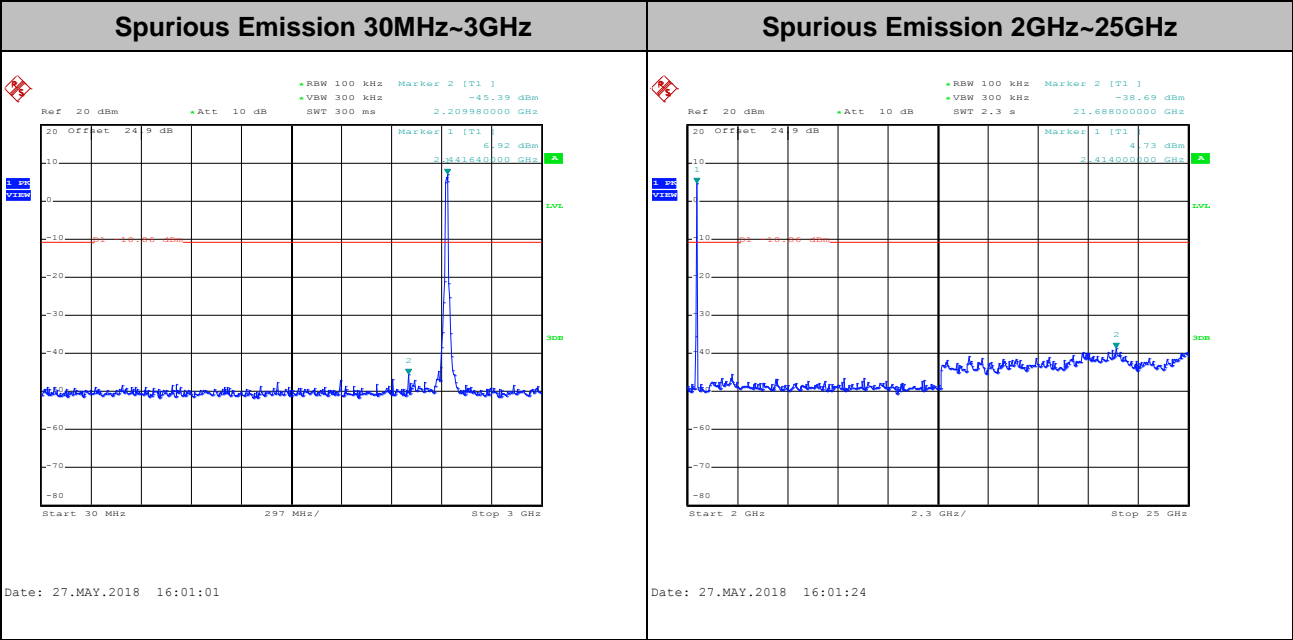
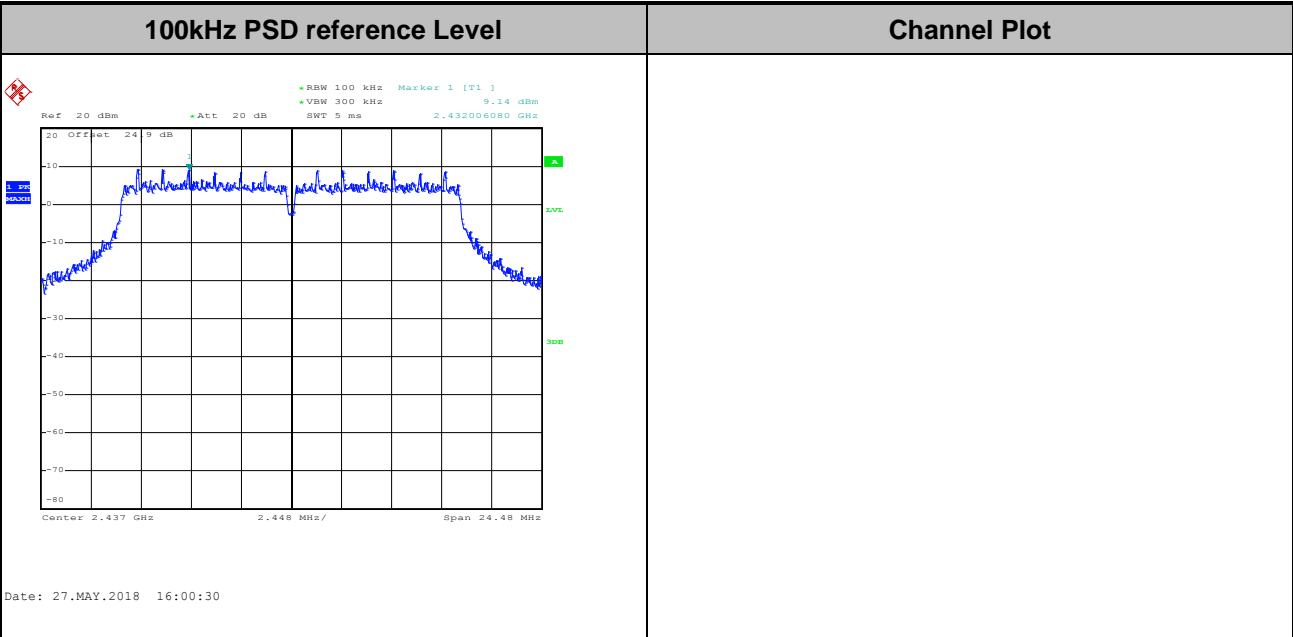


Test Mode :	802.11g	Test Channel :	01
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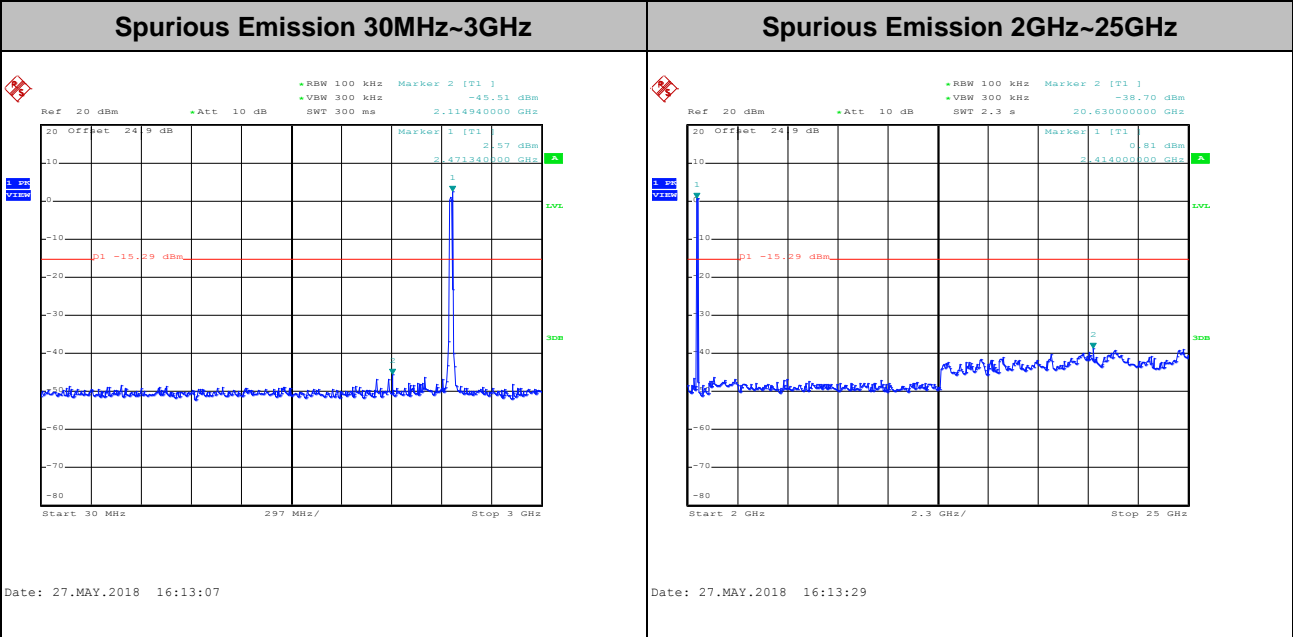
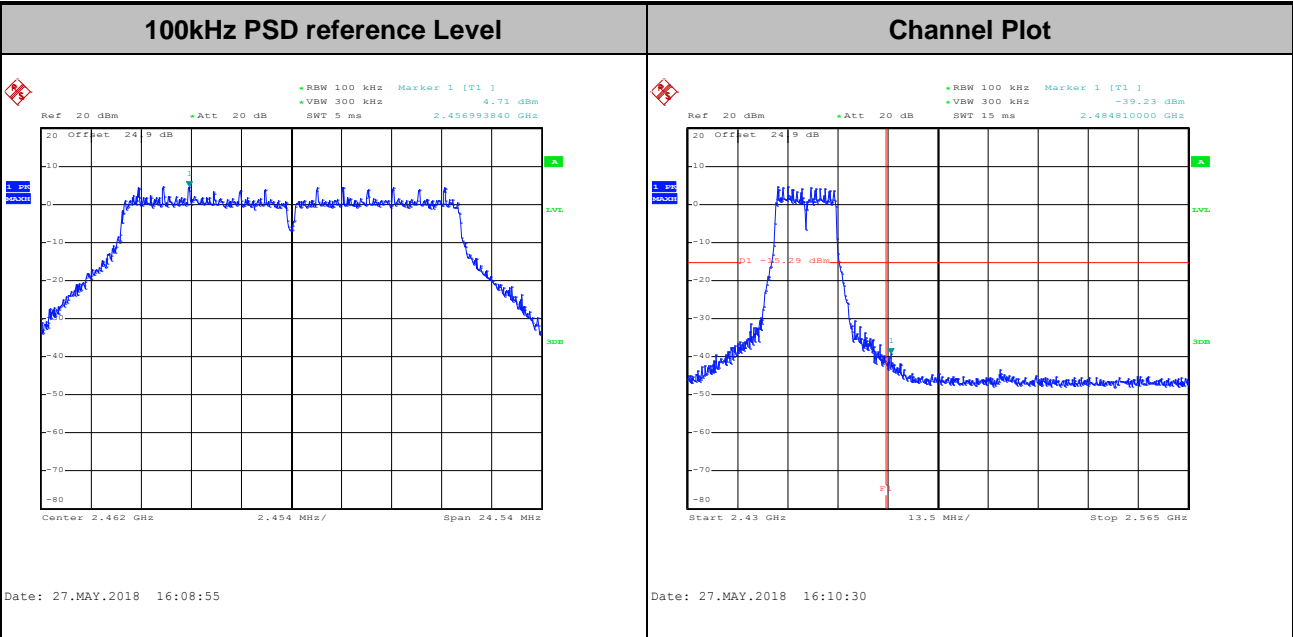


Test Mode :	802.11g	Test Channel :	06
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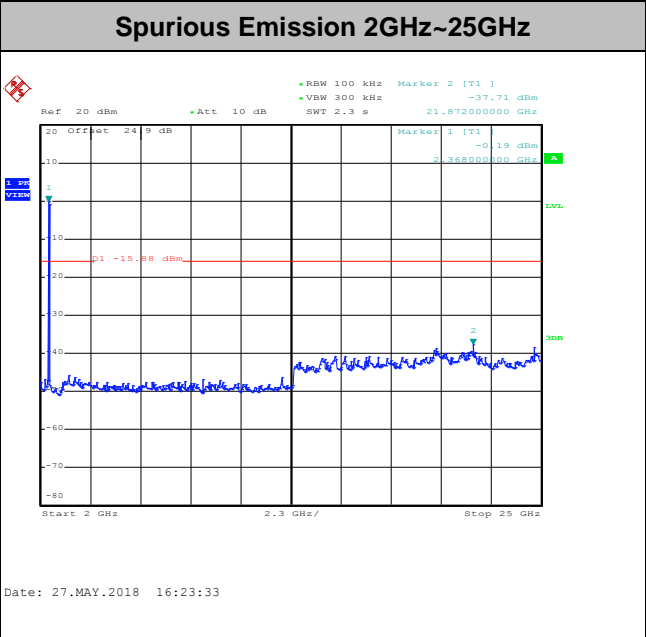
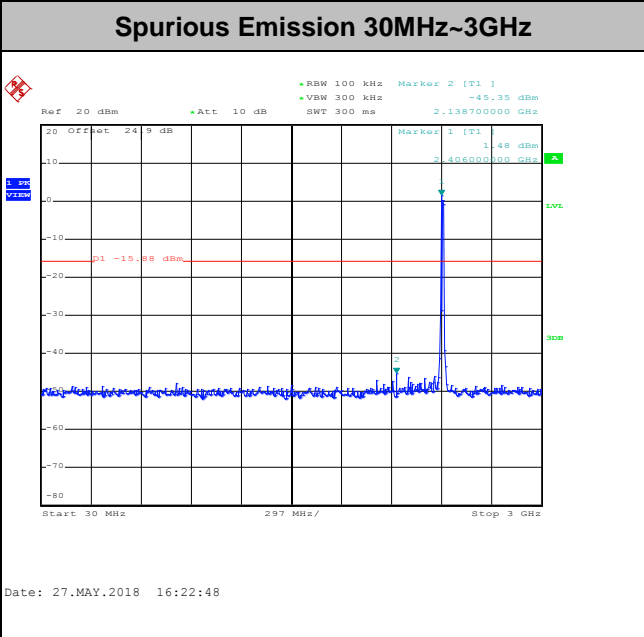
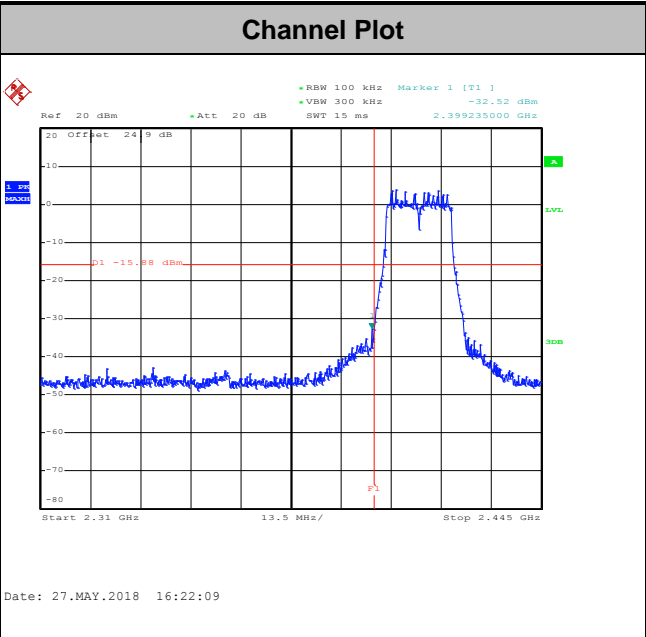
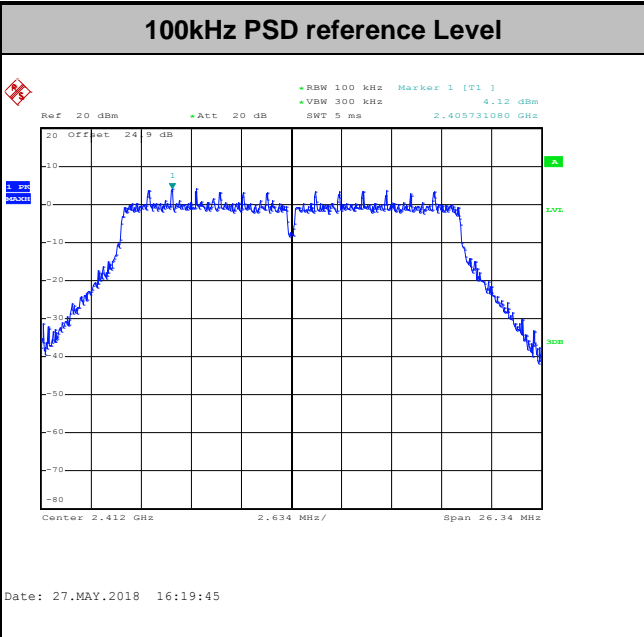


Test Mode :	802.11g	Test Channel :	11
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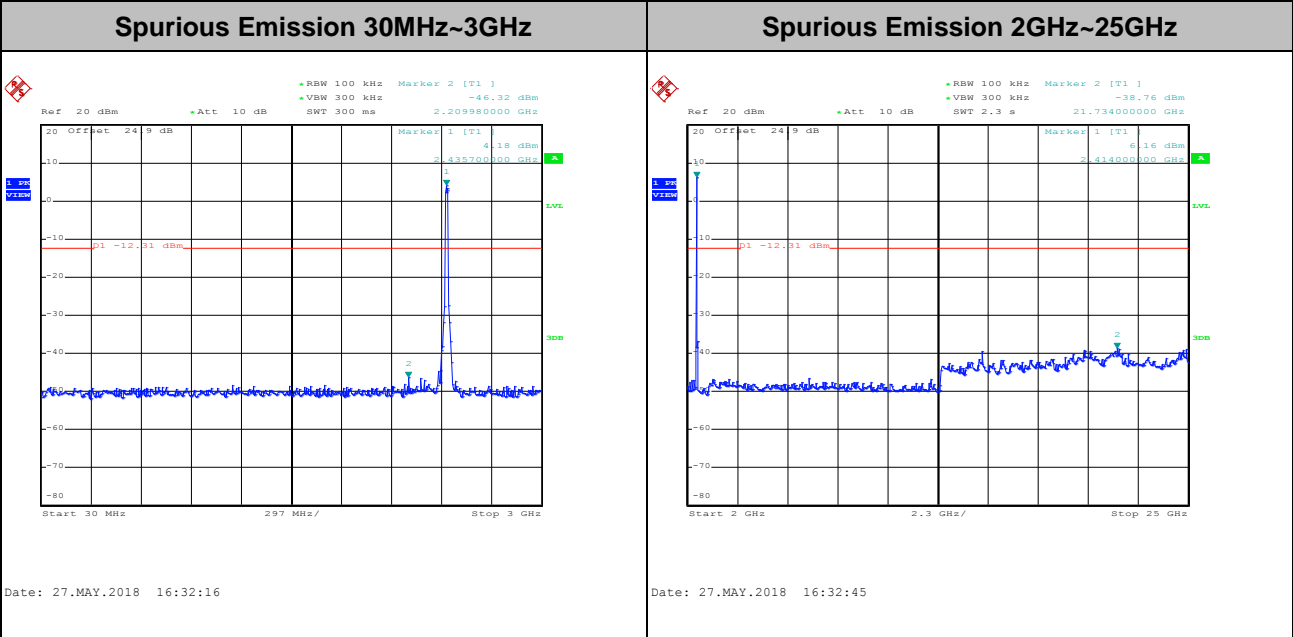
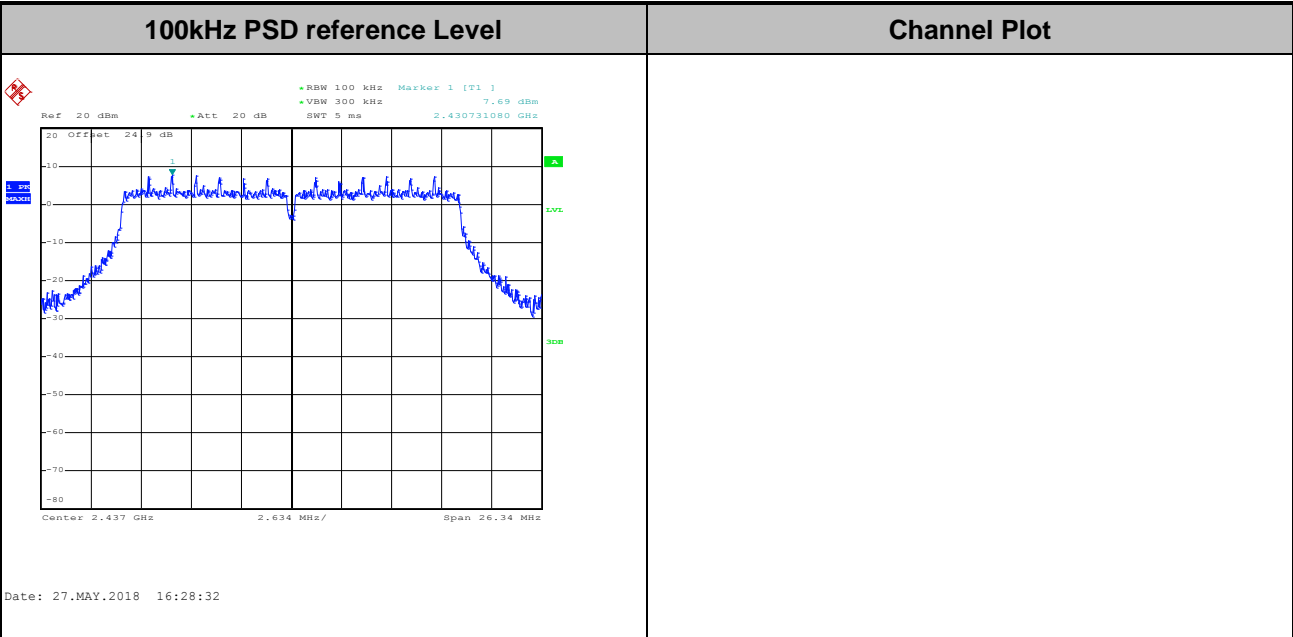


Test Mode :	802.11n HT20	Test Channel :	01
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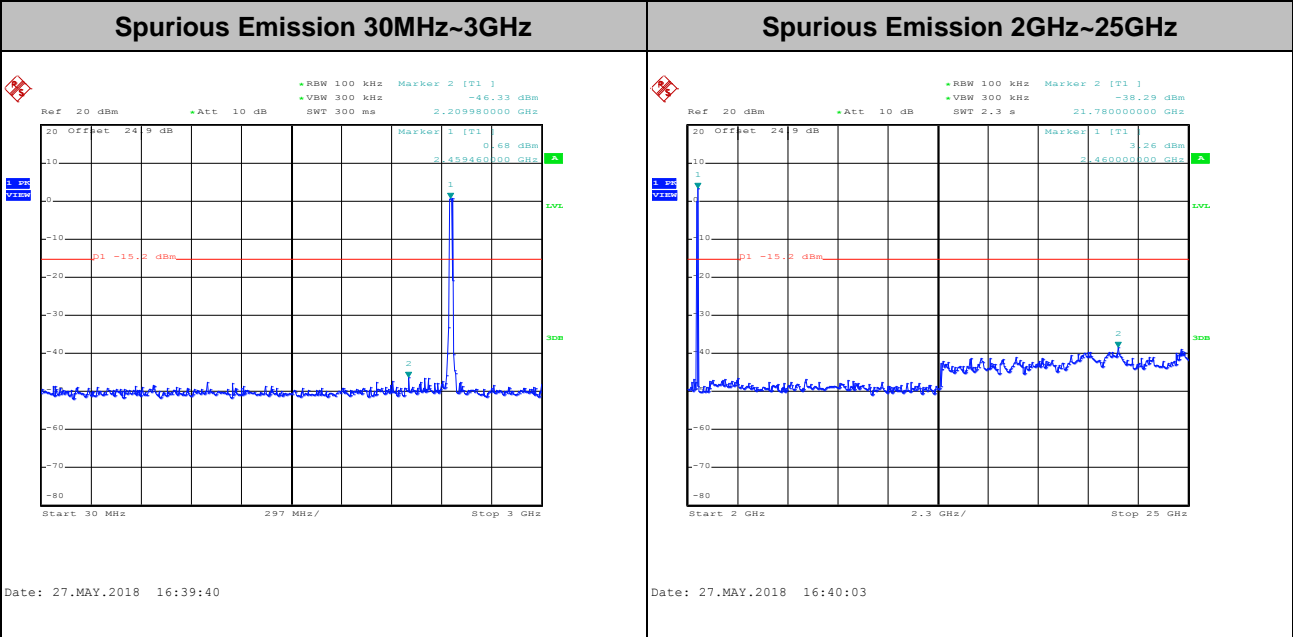
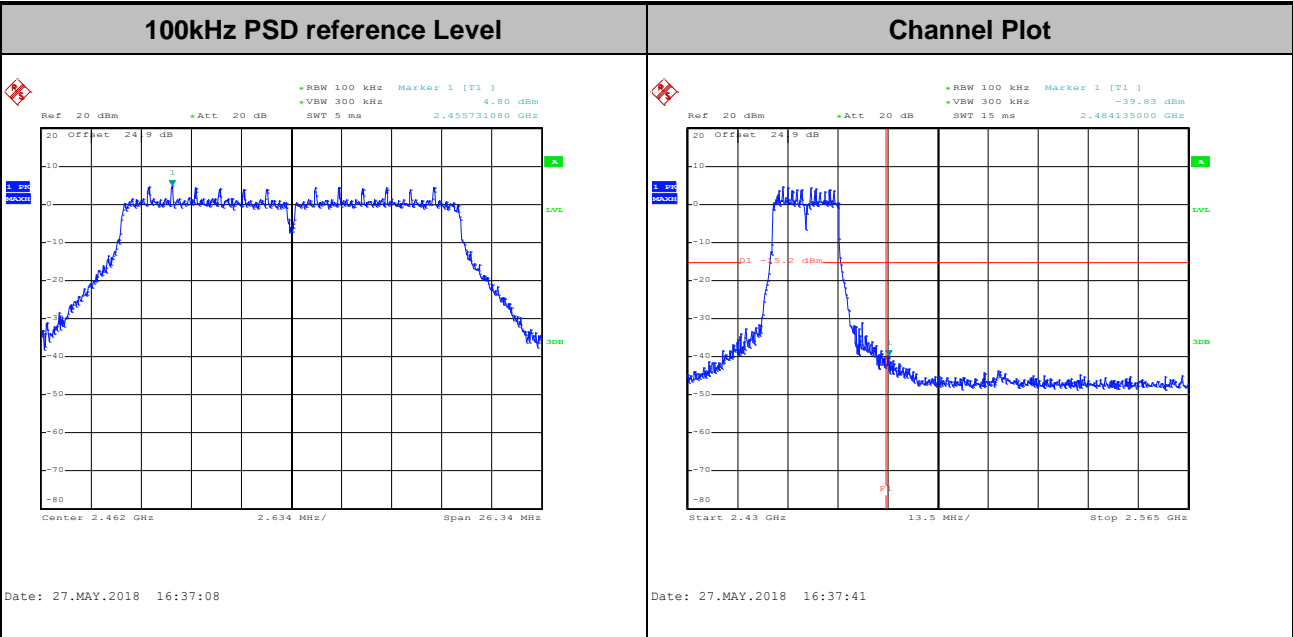
Test Mode :	802.11n HT20	Test Channel :	06
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Test Mode :	802.11n HT20	Test Channel :	11
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### 3.5 Radiated Band Edges and Spurious Emission Measurement

#### 3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (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

#### 3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

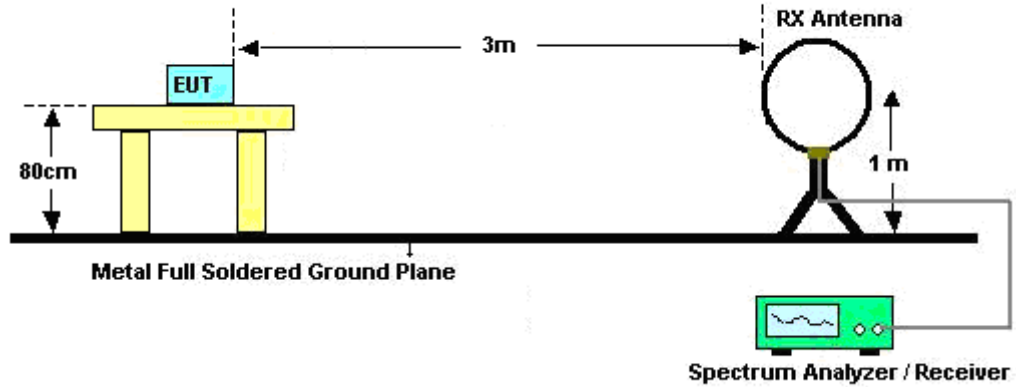


### 3.5.3 Test Procedures

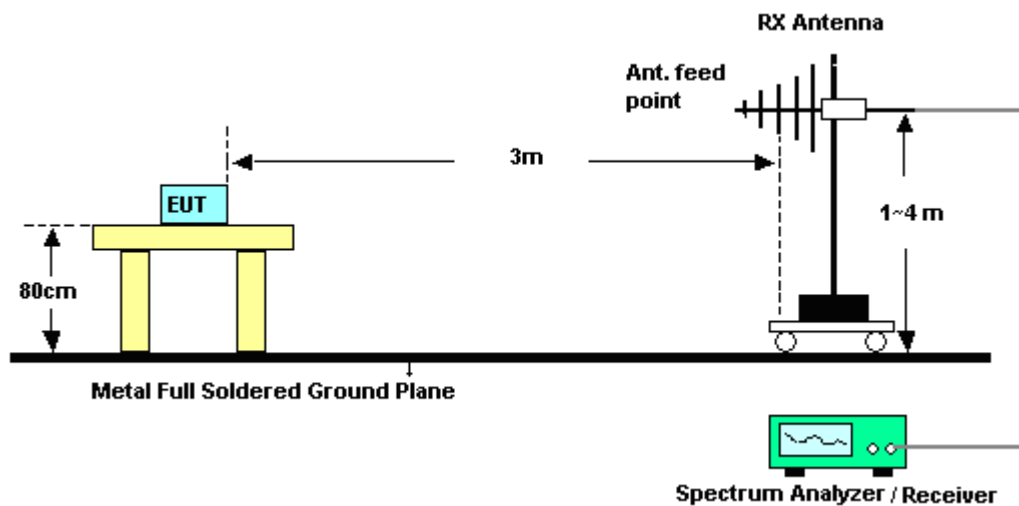
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Set RBW=100 kHz for  $f < 1$  GHz; VBW  $\geq$  RBW; Sweep = auto; Detector function = peak; Trace = max hold;
  - (3) Set RBW = 1 MHz, VBW= 3MHz for  $f \geq 1$  GHz for peak measurement.  
For average measurement:
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq 1/T$ , when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

### 3.5.4 Test Setup

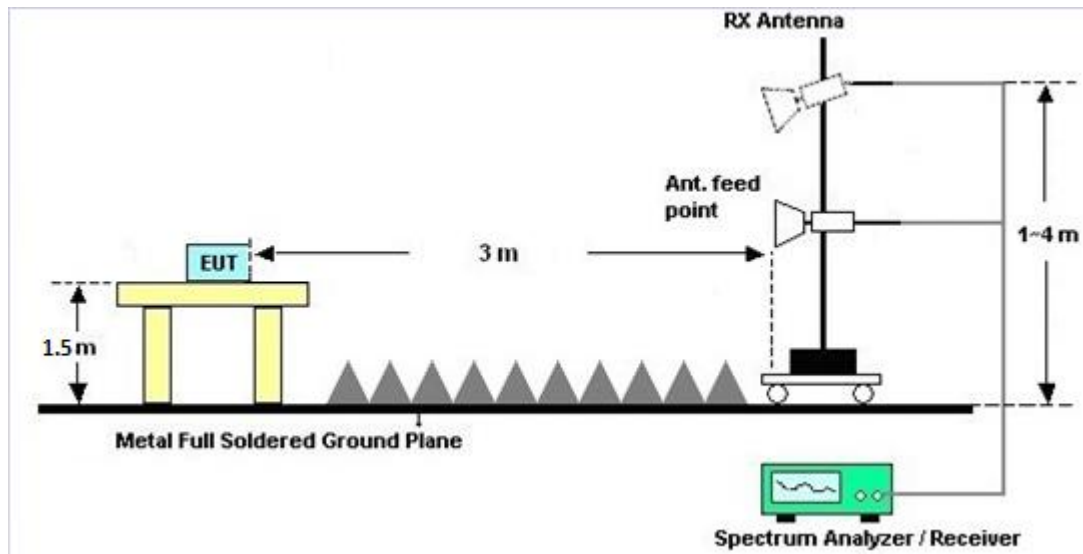
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



### 3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

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

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

### 3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

### 3.5.7 Duty Cycle

Please refer to Appendix E.

### 3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10<sup>th</sup> Harmonic)

Please refer to Appendix C and D.



### 3.6 AC Conducted Emission Measurement

#### 3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

#### 3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

#### 3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

### 3.6.4 Test Setup



### 3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



## **3.7 Antenna Requirements**

### **3.7.1 Standard Applicable**

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

### **3.7.2 Antenna Anti-Replacement Construction**

An embedded-in antenna design is used.

### **3.7.3 Antenna Gain**

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





## 4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	1218006	N/A	Oct. 06, 2017	Apr. 28, 2018 ~ May 27, 2018	Oct. 05, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207363	300MHz~40GHz	Oct. 06, 2017	Apr. 28, 2018 ~ May 27, 2018	Oct. 05, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 21, 2017	Apr. 28, 2018 ~ May 27, 2018	Nov. 20, 2018	Conducted (TH05-HY)
Switch Box & RF Cable	Burgeon	ETF-058	EC130048 4	N/A	Mar. 01, 2018	Apr. 28, 2018 ~ May 27, 2018	Feb. 28, 2019	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 21, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Apr. 21, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Apr. 21, 2018	Nov. 29, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 08, 2017	Apr. 21, 2018	Dec. 07, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 21, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Apr. 21, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Apr. 21, 2018	Jan. 02, 2019	Conduction (CO05-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	May 14, 2018 ~ May 23, 2018	Jul. 17, 2018	Radiation (03CH12-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 85	10Hz ~ 44GHz	Oct. 31, 2017	May 14, 2018 ~ May 23, 2018	Oct. 30, 2018	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6- 06	35414&AT- N0602	30MHz~1GHz	Oct. 14, 2017	May 14, 2018 ~ May 23, 2018	Oct. 13, 2018	Radiation (03CH12-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	May 14, 2018 ~ May 23, 2018	Nov. 22, 2018	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 25, 2017	May 14, 2018 ~ May 23, 2018	Dec. 24, 2018	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	9120D-132 8	1GHz ~ 18GHz	Oct. 20, 2017	May 14, 2018 ~ May 23, 2018	Oct. 19, 2018	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 26, 2018	May 14, 2018 ~ May 23, 2018	Mar. 25, 2019	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY532701 48	1GHz~26.5GHz	Jan. 15, 2018	May 14, 2018 ~ May 23, 2018	Jan. 14, 2019	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-27 00-3000-180 00-60ST	SN2	3 GHz Highpass	Jul. 17, 2017	May 14, 2018 ~ May 23, 2018	Jul. 16, 2018	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200- 12SS	SN2	1.2G Low Pass	Jul. 17, 2017	May 14, 2018 ~ May 23, 2018	Jul. 16, 2018	Radiation (03CH12-HY)
Attenuator	Fairview Microwave	SA18S5W-1 0	n/a	10db	Jul. 17, 2017	May 14, 2018 ~ May 23, 2018	Jul. 16, 2018	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500 -B	N/A	1m~4m	N/A	May 14, 2018 ~ May 23, 2018	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	May 14, 2018 ~ May 23, 2018	N/A	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	BBHA9170 584	18GHz ~ 40GHz	Nov. 27, 2017	May 14, 2018 ~ May 23, 2018	Nov. 26, 2018	Radiation (03CH12-HY)
Preamplifier	Jet-Power	JPA0118-55- 303K	17100018 00054002	1GHz~18GHz	Apr. 17, 2018	May 14, 2018 ~ May 23, 2018	Apr. 16, 2019	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8-24	RK-00098 9	N/A	N/A	May 14, 2018 ~ May 23, 2018	N/A	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30M-18G	Mar. 14, 2018	May 14, 2018 ~ May 23, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY15539/ 4	30M-18G	Mar. 14, 2018	May 14, 2018 ~ May 23, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY36979/ 4	30M-18G	Mar. 14, 2018	May 14, 2018 ~ May 23, 2018	Mar. 13, 2019	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 17, 2017	May 14, 2018 ~ May 23, 2018	Oct. 16, 2018	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 17, 2017	May 14, 2018 ~ May 23, 2018	Oct. 16, 2018	Radiation (03CH12-HY)



## 5 Uncertainty of Evaluation

### Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	2.70
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### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.10
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### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	5.20
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### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2Uc(y)$ )	4.70
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## Appendix A. Test Result of Conducted Test Items

Test Engineer:	Tommy Lee	Temperature:	21~25	°C
Test Date:	2018/4/28~2018/5/27	Relative Humidity:	51~54	%

**TEST RESULTS DATA**  
**6dB and 99% Occupied Bandwidth**

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 1		
11b	1Mbps	1	1	2412	13.25	8.04	0.50	Pass
11b	1Mbps	1	6	2437	13.20	8.04	0.50	Pass
11b	1Mbps	1	11	2462	13.30	8.08	0.50	Pass
11g	6Mbps	1	1	2412	18.40	16.36	0.50	Pass
11g	6Mbps	1	6	2437	18.70	16.32	0.50	Pass
11g	6Mbps	1	11	2462	18.20	16.36	0.50	Pass
HT20	MCS0	1	1	2412	19.00	17.56	0.50	Pass
HT20	MCS0	1	6	2437	19.40	17.56	0.50	Pass
HT20	MCS0	1	11	2462	19.00	17.56	0.50	Pass

**TEST RESULTS DATA**  
**Peak Output Power**

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	
11b	1Mbps	1	1	2412	22.31	30.00	0.58	22.89	36.00	Pass
11b	1Mbps	1	6	2437	22.27	30.00	0.58	22.85	36.00	Pass
11b	1Mbps	1	11	2462	22.70	30.00	0.58	23.28	36.00	Pass
11g	6Mbps	1	1	2412	24.99	30.00	0.58	25.57	36.00	Pass
11g	6Mbps	1	6	2437	26.65	30.00	0.58	27.23	36.00	Pass
11g	6Mbps	1	11	2462	24.73	30.00	0.58	25.31	36.00	Pass
HT20	MCS0	1	1	2412	24.67	30.00	0.58	25.25	36.00	Pass
HT20	MCS0	1	6	2437	25.87	30.00	0.58	26.45	36.00	Pass
HT20	MCS0	1	11	2462	24.88	30.00	0.58	25.46	36.00	Pass

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Average Output Power**

2.4GHz Band						
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
					Ant 1	Ant 1
11b	1Mbps	1	1	2412	0.13	19.59
11b	1Mbps	1	6	2437	0.13	19.53
11b	1Mbps	1	11	2462	0.13	20.13
11g	6Mbps	1	1	2412	0.62	15.68
11g	6Mbps	1	6	2437	0.62	20.48
11g	6Mbps	1	11	2462	0.62	15.85
HT20	MCS0	1	1	2412	0.66	15.24
HT20	MCS0	1	6	2437	0.66	18.86
HT20	MCS0	1	11	2462	0.66	16.08

Note: Measured power (dBm) has offset with cable loss.

**TEST RESULTS DATA**  
**Peak Power Spectral Density**

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)	DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
					Ant 1	Ant 1	Ant 1	
11b	1Mbps	1	1	2412	-2.84	0.58	8.00	Pass
11b	1Mbps	1	6	2437	-4.31	0.58	8.00	Pass
11b	1Mbps	1	11	2462	-2.69	0.58	8.00	Pass
11g	6Mbps	1	1	2412	-9.42	0.58	8.00	Pass
11g	6Mbps	1	6	2437	-5.28	0.58	8.00	Pass
11g	6Mbps	1	11	2462	-9.55	0.58	8.00	Pass
HT20	MCS0	1	1	2412	-9.06	0.58	8.00	Pass
HT20	MCS0	1	6	2437	-6.41	0.58	8.00	Pass
HT20	MCS0	1	11	2462	-9.70	0.58	8.00	Pass

Measured power density (dBm) has offset with cable loss.





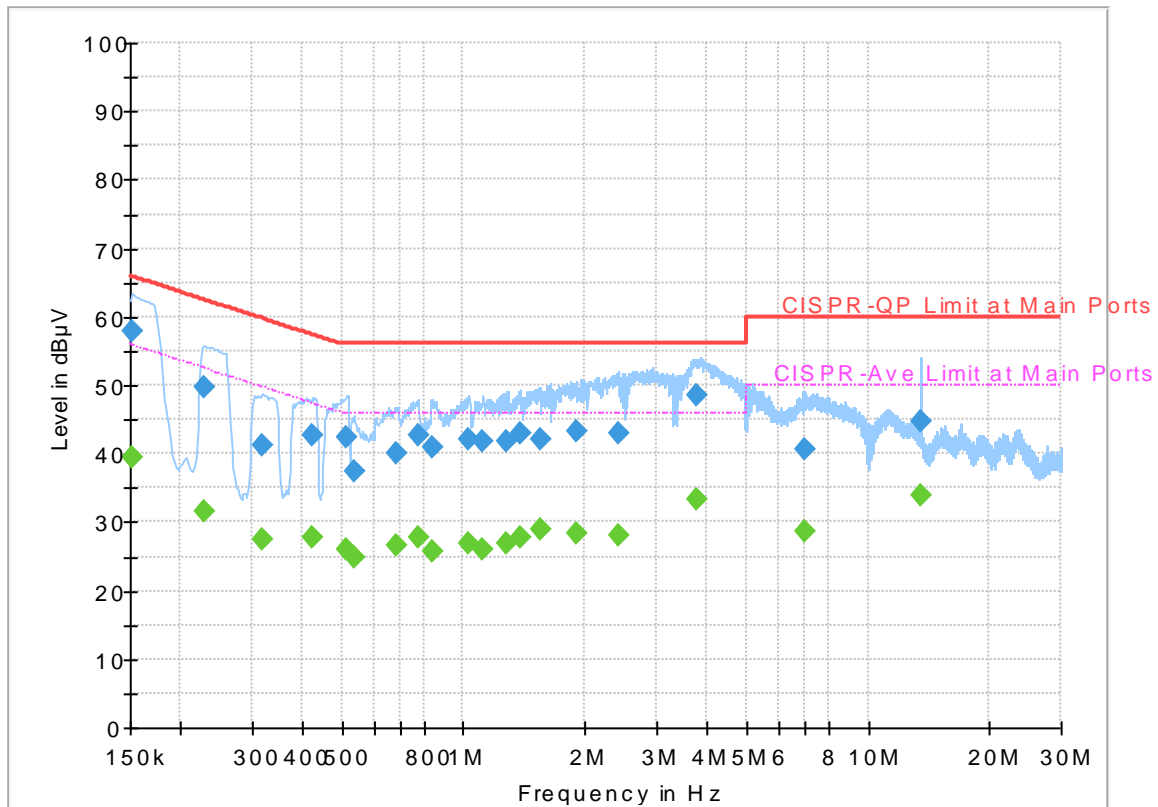
## Appendix B. AC Conducted Emission Test Results

Test Engineer :	Shareef Yu	Temperature :	23~24°C
		Relative Humidity :	58~63%

# EUT Information

Report NO : 720610-10  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Line

Full Spectrum



## Final\_Result

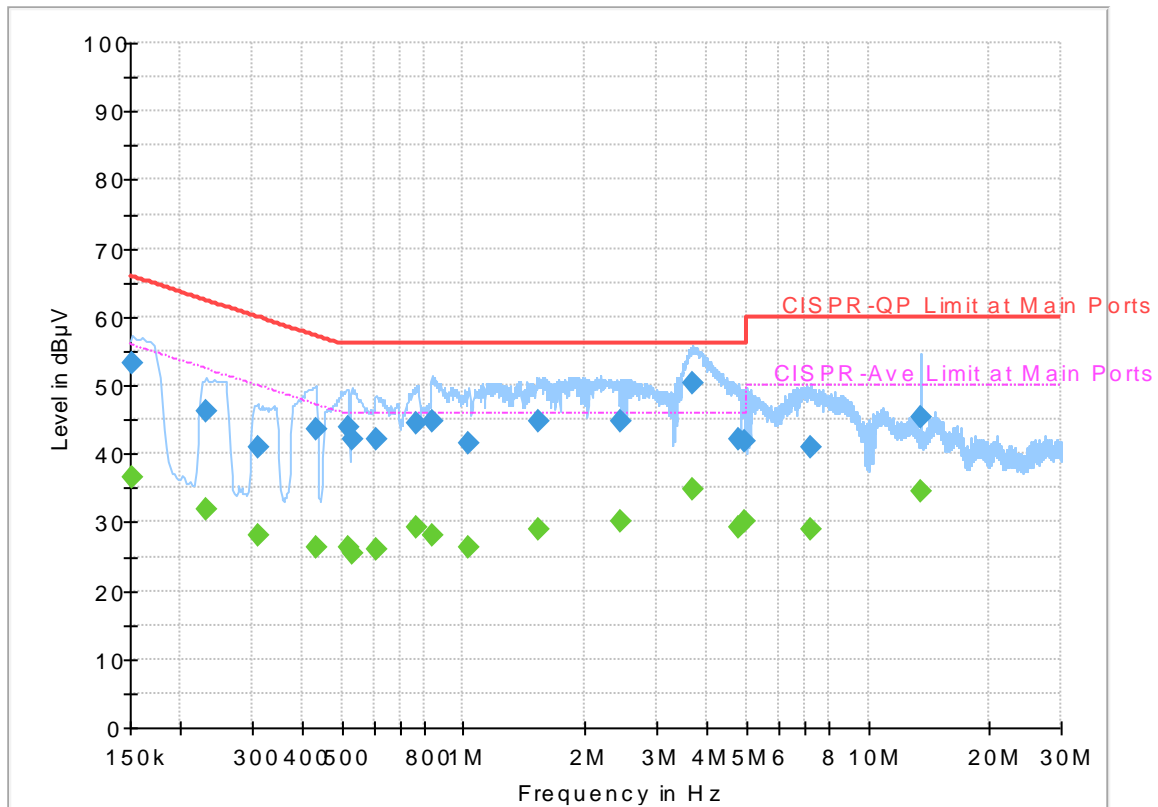
Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	39.38	55.88	16.50	L1	OFF	19.5
0.152250	57.99	---	65.88	7.89	L1	OFF	19.5
0.228750	---	31.45	52.50	21.05	L1	OFF	19.5
0.228750	49.58	---	62.50	12.92	L1	OFF	19.5
0.318750	---	27.35	49.74	22.39	L1	OFF	19.5
0.318750	41.26	---	59.74	18.48	L1	OFF	19.5
0.424500	---	27.66	47.36	19.70	L1	OFF	19.5
0.424500	42.62	---	57.36	14.74	L1	OFF	19.5
0.514500	---	26.16	46.00	19.84	L1	OFF	19.5
0.514500	42.34	---	56.00	13.66	L1	OFF	19.5
0.534750	---	24.80	46.00	21.20	L1	OFF	19.5
0.534750	37.47	---	56.00	18.53	L1	OFF	19.5
0.685500	---	26.66	46.00	19.34	L1	OFF	19.5
0.685500	39.95	---	56.00	16.05	L1	OFF	19.5
0.771000	---	27.72	46.00	18.28	L1	OFF	19.5
0.771000	42.67	---	56.00	13.33	L1	OFF	19.5
0.834000	---	25.79	46.00	20.21	L1	OFF	19.5
0.834000	40.99	---	56.00	15.01	L1	OFF	19.5
1.027500	---	26.88	46.00	19.12	L1	OFF	19.5
1.027500	42.02	---	56.00	13.98	L1	OFF	19.5
1.119750	---	26.15	46.00	19.85	L1	OFF	19.5

1.119750	41.75	---	56.00	14.25	L1	OFF	19.5
1.284000	---	27.02	46.00	18.98	L1	OFF	19.6
1.284000	41.88	---	56.00	14.12	L1	OFF	19.6
1.376250	---	27.84	46.00	18.16	L1	OFF	19.6
1.376250	43.02	---	56.00	12.98	L1	OFF	19.6
1.542750	---	29.04	46.00	16.96	L1	OFF	19.6
1.542750	42.17	---	56.00	13.83	L1	OFF	19.6
1.896000	---	28.27	46.00	17.73	L1	OFF	19.6
1.896000	43.28	---	56.00	12.72	L1	OFF	19.6
2.413500	---	28.18	46.00	17.82	L1	OFF	19.5
2.413500	43.08	---	56.00	12.92	L1	OFF	19.5
3.790500	---	33.33	46.00	12.67	L1	OFF	19.6
3.790500	48.61	---	56.00	7.39	L1	OFF	19.6
7.017000	---	28.76	50.00	21.24	L1	OFF	19.6
7.017000	40.58	---	60.00	19.42	L1	OFF	19.6
13.560000	---	34.06	50.00	15.94	L1	OFF	19.7
13.560000	44.87	---	60.00	15.13	L1	OFF	19.7

# EUT Information

Report NO : 720610-10  
 Test Mode : Mode 1  
 Test Voltage : 120Vac/60Hz  
 Phase : Neutral

Full Spectrum



## Final\_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	36.49	55.88	19.39	N	OFF	19.5
0.152250	53.27	---	65.88	12.61	N	OFF	19.5
0.231000	---	31.85	52.41	20.56	N	OFF	19.5
0.231000	46.17	---	62.41	16.24	N	OFF	19.5
0.309750	---	28.04	49.98	21.94	N	OFF	19.5
0.309750	40.89	---	59.98	19.09	N	OFF	19.5
0.431250	---	26.21	47.23	21.02	N	OFF	19.5
0.431250	43.69	---	57.23	13.54	N	OFF	19.5
0.516750	---	26.30	46.00	19.70	N	OFF	19.5
0.516750	43.97	---	56.00	12.03	N	OFF	19.5
0.530250	---	25.38	46.00	20.62	N	OFF	19.5
0.530250	42.16	---	56.00	13.84	N	OFF	19.5
0.609000	---	25.95	46.00	20.05	N	OFF	19.5
0.609000	42.21	---	56.00	13.79	N	OFF	19.5
0.764250	---	29.11	46.00	16.89	N	OFF	19.5
0.764250	44.40	---	56.00	11.60	N	OFF	19.5
0.834000	---	27.99	46.00	18.01	N	OFF	19.5
0.834000	44.78	---	56.00	11.22	N	OFF	19.5
1.034250	---	26.23	46.00	19.77	N	OFF	19.5
1.034250	41.46	---	56.00	14.54	N	OFF	19.5
1.538250	---	29.09	46.00	16.91	N	OFF	19.6

1.538250	44.75	---	56.00	11.25	N	OFF	19.6
2.445000	---	30.04	46.00	15.96	N	OFF	19.5
2.445000	44.68	---	56.00	11.32	N	OFF	19.5
3.671250	---	34.79	46.00	11.21	N	OFF	19.6
3.671250	50.24	---	56.00	5.76	N	OFF	19.6
4.812000	---	29.10	46.00	16.90	N	OFF	19.6
4.812000	42.21	---	56.00	13.79	N	OFF	19.6
4.960500	---	30.00	46.00	16.00	N	OFF	19.6
4.960500	41.80	---	56.00	14.20	N	OFF	19.6
7.194750	---	28.82	50.00	21.18	N	OFF	19.7
7.194750	41.02	---	60.00	18.98	N	OFF	19.7
13.560000	---	34.40	50.00	15.60	N	OFF	19.8
13.560000	45.46	---	60.00	14.54	N	OFF	19.8



## Appendix C. Radiated Spurious Emission

<b>Test Engineer :</b>	Watt Tseng, Karl Hou, and Nick Yu	<b>Temperature :</b>	23~25°C
		<b>Relative Humidity :</b>	61~65%



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.	
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.		
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	(P/A)	(H/V)	
802.11b CH 01 2412MHz		2339.925	60.75	-13.25	74	51.27	27.03	14.03	31.58	100	337	P	H	
		2385.39	47.93	-6.07	54	38.34	27.11	14.06	31.58	100	337	A	H	
	*	2412	113.14	-	-	103.44	27.19	14.08	31.57	100	337	P	H	
	*	2412	108.83	-	-	99.13	27.19	14.08	31.57	100	337	A	H	
													H	
													H	
			2385.495	55.83	-18.17	74	46.24	27.11	14.06	31.58	305	360	P	V
			2385.39	45.19	-8.81	54	35.6	27.11	14.06	31.58	305	360	A	V
	*		2412	108.95	-	-	99.25	27.19	14.08	31.57	305	360	P	V
	*		2412	104.5	-	-	94.8	27.19	14.08	31.57	305	360	A	V
													V	
													V	
802.11b CH 06 2437MHz		2338.56	58.96	-15.04	74	49.51	27.03	14.01	31.59	119	336	P	H	
		2389.1	46.55	-7.45	54	36.92	27.15	14.06	31.58	119	336	A	H	
	*	2437	113.46	-	-	103.65	27.28	14.1	31.57	119	336	P	H	
	*	2437	108.96	-	-	99.15	27.28	14.1	31.57	119	336	A	H	
			2488.31	53.67	-20.33	74	43.69	27.4	14.14	31.56	119	336	P	H
			2484.95	43.1	-10.9	54	33.16	27.36	14.14	31.56	119	336	A	H
			2339.12	54.69	-19.31	74	45.23	27.03	14.01	31.58	300	359	P	V
			2388.96	43.69	-10.31	54	34.06	27.15	14.06	31.58	300	359	A	V
	*		2437	107.92	-	-	98.11	27.28	14.1	31.57	300	359	P	V
	*		2437	103.39	-	-	93.58	27.28	14.1	31.57	300	359	A	V
			2494.05	53.65	-20.35	74	43.66	27.4	14.14	31.55	300	359	P	V
			2485.23	42.13	-11.87	54	32.19	27.36	14.14	31.56	300	359	A	V



<b>802.11b</b> <b>CH 11</b> <b>2462MHz</b>	*	2462	112.16	-	-	102.29	27.32	14.11	31.56	136	357	P	H
	*	2462	108.04	-	-	98.17	27.32	14.11	31.56	136	357	A	H
		2483.84	56.9	-17.1	74	46.96	27.36	14.14	31.56	136	357	P	H
		2483.64	48.66	-5.34	54	38.72	27.36	14.14	31.56	136	357	A	H
													H
													H
	*	2462	107.32	-	-	97.45	27.32	14.11	31.56	307	279	P	V
	*	2462	102.91	-	-	93.04	27.32	14.11	31.56	307	279	A	V
		2483.64	54.85	-19.15	74	44.91	27.36	14.14	31.56	307	279	P	V
		2483.6	44.64	-9.36	54	34.7	27.36	14.14	31.56	307	279	A	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												





**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11b (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. (P/A)	Pol. (H/V)	
802.11b CH 01 2412MHz		4824	38.83	-35.17	74	57.34	31.36	6.7	56.57	100	0	P	H	
													H	
													H	
													H	
			4824	38.16	-35.84	74	56.67	31.36	6.7	56.57	100	0	P	V
														V
														V
802.11b CH 06 2437MHz		4874	39.39	-34.61	74	57.75	31.46	6.73	56.55	100	0	P	H	
		7311	52.83	-21.17	74	64.88	36.11	8.07	56.23	250	346	P	H	
		7311	46.26	-7.74	54	58.31	36.11	8.07	56.23	250	346	A	H	
													H	
			4874	39.31	-34.69	74	57.67	31.46	6.73	56.55	100	0	P	V
			7311	48.05	-25.95	74	60.1	36.11	8.07	56.23	100	0	P	V
														V
802.11b CH 11 2462MHz		4924	42.41	-31.59	74	60.65	31.56	6.73	56.53	100	0	P	H	
		7386	55.33	-18.67	74	67.13	36.33	8.01	56.14	257	347	P	H	
		7386	49.73	-4.27	54	61.53	36.33	8.01	56.14	257	347	A	H	
													H	
			4924	39.36	-34.64	74	57.6	31.56	6.73	56.53	100	0	P	V
			7386	49.89	-24.11	74	61.69	36.33	8.01	56.14	100	0	P	V
														V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.													



**2.4GHz 2400~2483.5MHz  
WIFI 802.11g (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11g CH 01 2412MHz		2389.59	69.09	-4.91	74	59.46	27.15	14.06	31.58	100	337	P	H	
		2389.905	51.45	-2.55	54	41.81	27.15	14.06	31.57	100	337	A	H	
	*	2412	110.35	-	-	100.65	27.19	14.08	31.57	100	337	P	H	
	*	2412	100.5	-	-	90.8	27.19	14.08	31.57	100	337	A	H	
													H	
														H
			2389.8	65.97	-8.03	74	56.33	27.15	14.06	31.57	384	354	P	V
			2390	47.7	-6.3	54	38.06	27.15	14.06	31.57	384	354	A	V
	*		2412	107.43	-	-	97.73	27.19	14.08	31.57	384	354	P	V
	*		2412	96.77	-	-	87.07	27.19	14.08	31.57	384	354	A	V
														V
														V
802.11g CH 06 2437MHz		2385.88	60.24	-13.76	74	50.61	27.15	14.06	31.58	243	350	P	H	
		2384.9	49.97	-4.03	54	40.38	27.11	14.06	31.58	243	350	A	H	
	*	2437	114.01	-	-	104.2	27.28	14.1	31.57	243	350	P	H	
	*	2437	103.99	-	-	94.18	27.28	14.1	31.57	243	350	A	H	
			2484.95	60	-14	74	50.06	27.36	14.14	31.56	243	350	P	H
			2489.5	47.25	-6.75	54	37.27	27.4	14.14	31.56	243	350	A	H
			2384.9	60.16	-13.84	74	50.57	27.11	14.06	31.58	343	356	P	V
			2384.9	49.49	-4.51	54	39.9	27.11	14.06	31.58	343	356	A	V
	*		2437	110.73	-	-	100.92	27.28	14.1	31.57	343	356	P	V
	*		2437	100.46	-	-	90.65	27.28	14.1	31.57	343	356	A	V
			2484.74	56.08	-17.92	74	46.14	27.36	14.14	31.56	343	356	P	V
			2489.36	44.13	-9.87	54	34.15	27.4	14.14	31.56	343	356	A	V



<b>802.11g</b>  <b>CH 11</b>  <b>2462MHz</b>	*	2462	109.03	-	-	99.16	27.32	14.11	31.56	108	336	P	H
	*	2462	98.84	-	-	88.97	27.32	14.11	31.56	108	336	A	H
		2483.72	69.99	-4.01	74	60.05	27.36	14.14	31.56	108	336	P	H
		2483.6	50.89	-3.11	54	40.95	27.36	14.14	31.56	108	336	A	H
													H
													H
	*	2462	104.93	-	-	95.06	27.32	14.11	31.56	302	314	P	V
	*	2462	94.62	-	-	84.75	27.32	14.11	31.56	302	314	A	V
		2483.76	62	-12	74	52.06	27.36	14.14	31.56	302	314	P	V
		2483.6	45.61	-8.39	54	35.67	27.36	14.14	31.56	302	314	A	V
													V
													V
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz  
WIFI 802.11g (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11g CH 01 2412MHz		4824	38.79	-35.21	74	57.3	31.36	6.7	56.57	100	0	P	H	
													H	
													H	
													H	
			4824	38.51	-35.49	74	57.02	31.36	6.7	56.57	100	0	P	V
														V
														V
802.11g CH 06 2437MHz		4874	39.92	-34.08	74	58.28	31.46	6.73	56.55	100	0	P	H	
		7311	56.1	-17.9	74	68.15	36.11	8.07	56.23	260	346	P	H	
		7311	41.66	-12.34	54	53.71	36.11	8.07	56.23	260	346	A	H	
													H	
			4874	37.85	-36.15	74	56.21	31.46	6.73	56.55	100	0	P	V
			7311	49.21	-24.79	74	61.26	36.11	8.07	56.23	100	0	P	V
														V
802.11g CH 11 2462MHz		4924	40.23	-33.77	74	58.47	31.56	6.73	56.53	100	0	P	H	
		7386	46.88	-27.12	74	58.68	36.33	8.01	56.14	100	0	P	H	
													H	
													H	
			4924	40.71	-33.29	74	58.95	31.56	6.73	56.53	100	0	P	V
			7386	44.36	-29.64	74	56.16	36.33	8.01	56.14	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



**2.4GHz 2400~2483.5MHz  
WIFI 802.11n HT20 (Band Edge @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 01 2412MHz		2390	70.6	-3.4	74	60.96	27.15	14.06	31.57	100	338	P	H	
		2388.75	50.29	-3.71	54	40.66	27.15	14.06	31.58	100	338	A	H	
	*	2412	109.68	-	-	99.98	27.19	14.08	31.57	100	338	P	H	
	*	2412	99.63	-	-	89.93	27.19	14.08	31.57	100	338	A	H	
													H	
														H
			2390	69.82	-4.18	74	60.18	27.15	14.06	31.57	308	359	P	V
			2389.905	47.44	-6.56	54	37.8	27.15	14.06	31.57	308	359	A	V
		*	2412	105.73	-	-	96.03	27.19	14.08	31.57	308	359	P	V
		*	2412	95.63	-	-	85.93	27.19	14.08	31.57	308	359	A	V
													V	
													V	
802.11n HT20 CH 06 2437MHz		2384.62	62.14	-11.86	74	52.55	27.11	14.06	31.58	117	335	P	H	
		2385.46	51.67	-2.33	54	42.08	27.11	14.06	31.58	117	335	A	H	
	*	2437	113.17	-	-	103.36	27.28	14.1	31.57	117	335	P	H	
	*	2437	103.1	-	-	93.29	27.28	14.1	31.57	117	335	A	H	
			2483.83	57.35	-16.65	74	47.41	27.36	14.14	31.56	117	335	P	H
			2488.8	46.53	-7.47	54	36.55	27.4	14.14	31.56	117	335	A	H
			2385.32	58.87	-15.13	74	49.28	27.11	14.06	31.58	263	3	P	V
			2385.6	47.16	-6.84	54	37.53	27.15	14.06	31.58	263	3	A	V
		*	2437	108.79	-	-	98.98	27.28	14.1	31.57	263	3	P	V
		*	2437	98.36	-	-	88.55	27.28	14.1	31.57	263	3	A	V
		2496.78	54.23	-19.77	74	44.24	27.4	14.14	31.55	263	3	P	V	
		2488.66	43.84	-10.16	54	33.86	27.4	14.14	31.56	263	3	A	V	



<b>802.11n</b> <b>HT20</b> <b>CH 11</b> <b>2462MHz</b>	*	2462	109.21	-	-	99.34	27.32	14.11	31.56	105	335	P	H
	*	2462	99.03	-	-	89.16	27.32	14.11	31.56	105	335	A	H
		2484.08	71.81	-2.19	74	61.87	27.36	14.14	31.56	105	335	P	H
		2483.56	51.38	-2.62	54	41.44	27.36	14.14	31.56	105	335	A	H
													H
													H
	*	2462	103.85	-	-	93.98	27.32	14.11	31.56	296	360	P	V
	*	2462	93.72	-	-	83.85	27.32	14.11	31.56	296	360	A	V
		2484	63.89	-10.11	74	53.95	27.36	14.14	31.56	296	360	P	V
		2483.56	46.43	-7.57	54	36.49	27.36	14.14	31.56	296	360	A	V
													V
												V	
<b>Remark</b>	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz  
WIFI 802.11n HT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency ( MHz )	Level ( dBμV/m )	Over Limit ( dB )	Limit Line ( dBμV/m )	Read Level ( dBμV )	Antenna Factor ( dB/m )	Path Loss ( dB )	Preamp Factor ( dB )	Ant Pos ( cm )	Table Pos ( deg )	Peak Avg. ( P/A )	Pol. ( H/V )	
802.11n HT20 CH 01 2412MHz		4824	38.57	-35.43	74	57.08	31.36	6.7	56.57	100	0	P	H	
													H	
													H	
													H	
			4824	37.88	-36.12	74	56.39	31.36	6.7	56.57	100	0	P	V
														V
														V
802.11n HT20 CH 06 2437MHz		4874	38.57	-35.43	74	56.93	31.46	6.73	56.55	100	0	P	H	
		7311	49.93	-24.07	74	61.98	36.11	8.07	56.23	100	0	P	H	
													H	
													H	
			4874	38.25	-35.75	74	56.61	31.46	6.73	56.55	100	0	P	V
			7311	46.61	-27.39	74	58.66	36.11	8.07	56.23	100	0	P	V
														V
802.11n HT20 CH 11 2462MHz		4924	39.77	-34.23	74	58.01	31.56	6.73	56.53	100	0	P	H	
		7386	46.46	-27.54	74	58.26	36.33	8.01	56.14	100	0	P	H	
													H	
													H	
			4924	38.59	-35.41	74	56.83	31.56	6.73	56.53	100	0	P	V
			7386	44.87	-29.13	74	56.67	36.33	8.01	56.14	100	0	P	V
														V
Remark	1. No other spurious found.													
	2. All results are PASS against Peak and Average limit line.													



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.	
1		( MHz )	( dBµV/m )	( dB )	( dBµV/m )	( dBµV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )	
2.4GHz 802.11n HT20 LF		31.08	26.14	-13.86	40	30.28	25.62	0.44	30.2	-	-	P	H	
		78.33	22.36	-17.64	40	38.33	13.66	0.82	30.45	-	-	P	H	
		200.37	30.21	-13.29	43.5	43.14	16.12	1.27	30.32	-	-	P	H	
		551.3	29.8	-16.2	46	32.66	24.82	2.02	29.7	-	-	P	H	
		650.7	34.59	-11.41	46	35.88	26.11	2.17	29.57	-	-	P	H	
		801.2	35.25	-10.75	46	34.01	28.11	2.42	29.29	100	0	P	H	
														H
														H
														H
														H
														H
														H
			32.16	34.6	-5.4	40	39.33	25.04	0.44	30.21	100	0	P	V
			88.86	29.62	-13.88	43.5	44.44	14.8	0.82	30.44	-	-	P	V
			130.98	27.25	-16.25	43.5	38.64	18.01	1	30.4	-	-	P	V
			496.7	31.62	-14.38	46	35.23	24.32	1.86	29.79	-	-	P	V
			801.2	33.37	-12.63	46	32.13	28.11	2.42	29.29	-	-	P	V
			993	32.93	-21.07	54	29.1	29.93	2.77	28.87	-	-	P	V
														V
														V
													V	
													V	
													V	
													V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.													





**Note symbol**

*	<b>Fundamental Frequency</b> which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is <b>over limit</b> line.
P/A	<b>Peak</b> or <b>Average</b>
H/V	<b>Horizontal</b> or <b>Vertical</b>



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		( MHz )	( dBμV/m )	( dB )	( dBμV/m )	( dBμV )	( dB/m )	( dB )	( dB )	( cm )	( deg )	( P/A )	( H/V )
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =  
Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

**For Peak Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)  
= 55.45 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 55.45(dBμV/m) – 74(dBμV/m)  
= -18.55(dB)

**For Average Limit @ 2390MHz:**

1. Level(dBμV/m)  
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)  
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)  
= 43.54 (dBμV/m)
2. Over Limit(dB)  
= Level(dBμV/m) – Limit Line(dBμV/m)  
= 43.54(dBμV/m) – 54(dBμV/m)  
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.



## Appendix D. Radiated Spurious Emission Plots

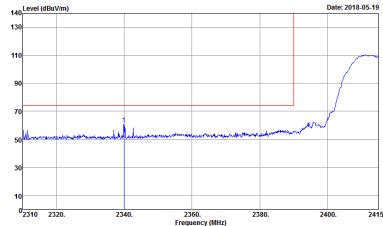
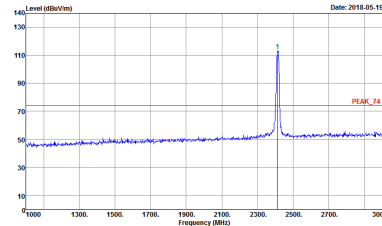
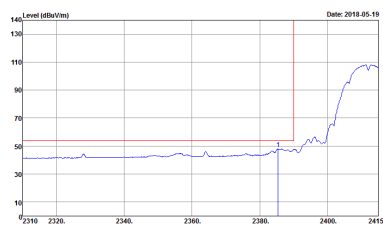
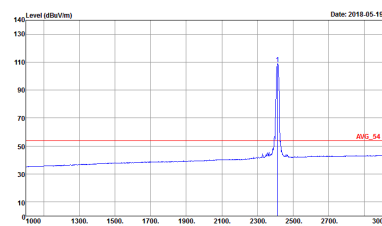
Test Engineer :	Watt Tseng, Karl Hou, and Nick Yu	Temperature :	23~25°C
		Relative Humidity :	61~65%

### Note symbol

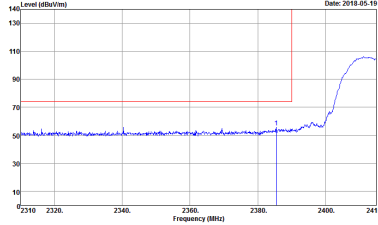
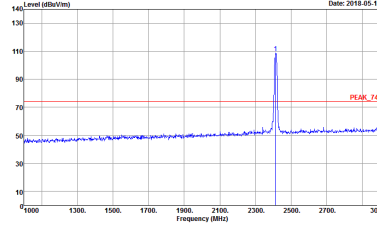
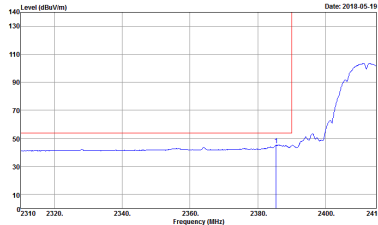
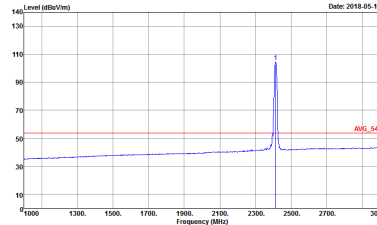
-L	Low channel location
-R	High channel location



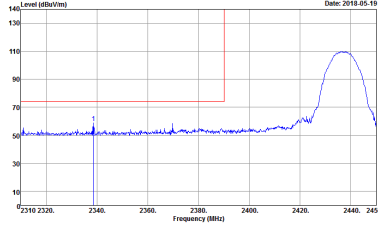
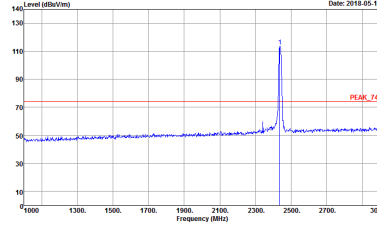
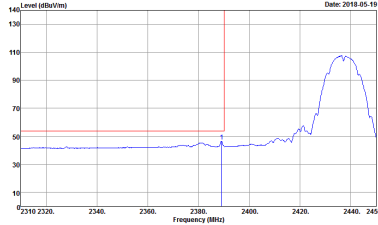
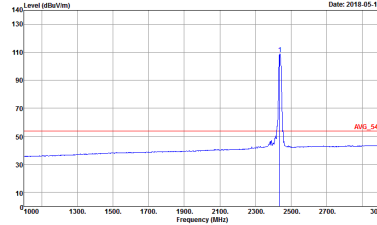
2.4GHz 2400~2483.5MHz  
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720610-10 Mode : 7 Setting : 20</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720610-10 Mode : 7 Setting : 20</p>
Avg.	 <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720610-10 Mode : 7 Setting : 20</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720610-10 Mode : 7 Setting : 20</p>

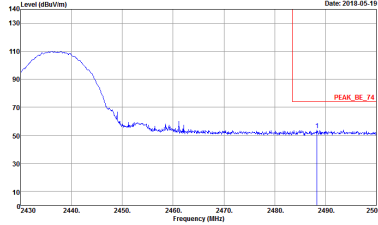
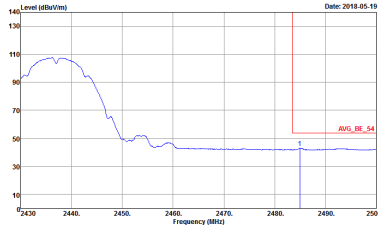


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_91200_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 7            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : PEAK_F4 3m HORN_91200_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 7            Setting : 20</p>
Avg.	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_91200_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 7            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : AVG_F4 3m HORN_91200_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 7            Setting : 20</p>

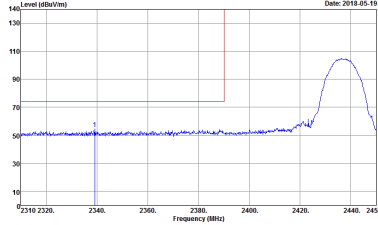
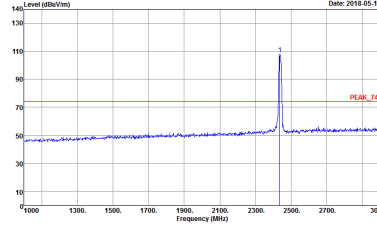
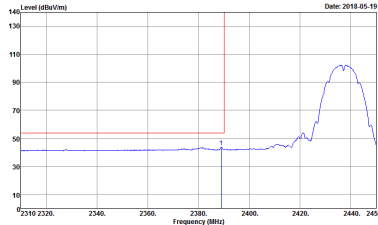
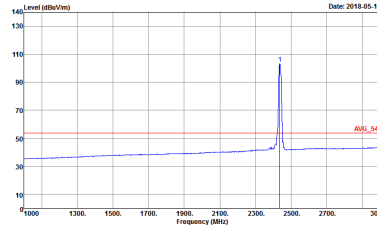


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH2-HY            Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>	 <p>Site : 03CH2-HY            Condition : PEAK_F4 3m HORN_91200_1328 HORIZONTAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH2-HY            Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>	 <p>Site : 03CH2-HY            Condition : AVG_F4 3m HORN_91200_1328 HORIZONTAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>



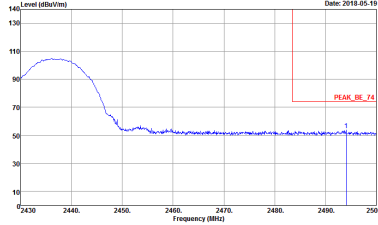
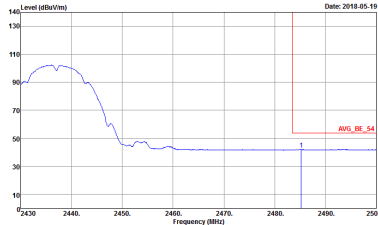
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH2-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH2-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:10.350KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>	<p>Left blank</p>



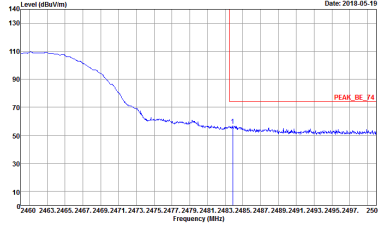
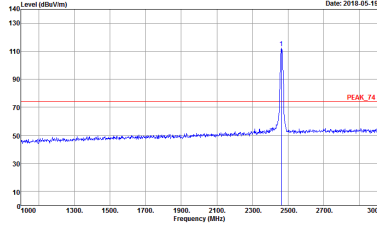
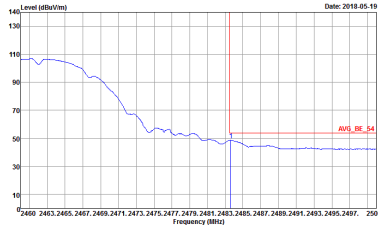
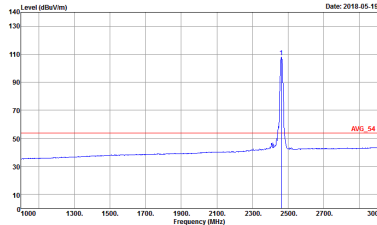
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_91200_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : PEAK_F4 3m HORN_91200_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>
Avg.	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_91200_1328 VERTICAL            RBW:3000.000kHz VBW:0.300kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : AVG_F4 3m HORN_91200_1328 VERTICAL            RBW:3000.000kHz VBW:0.300kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>



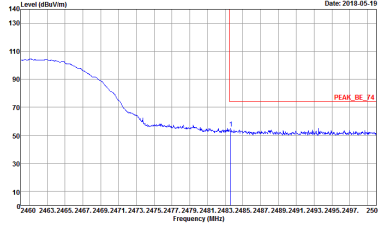
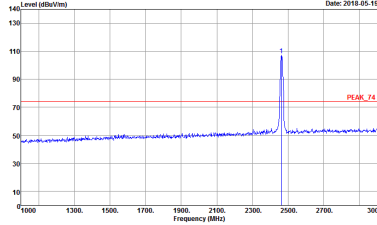
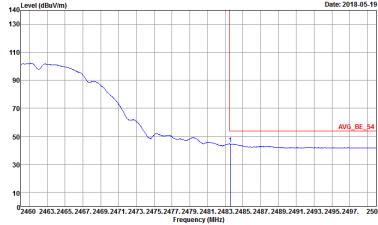
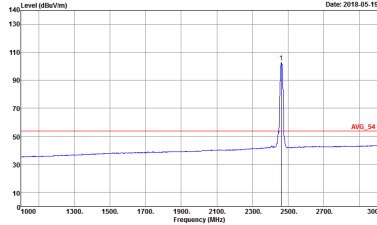


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH2-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:10000000Hz VBW:3000.0000Hz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH2-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:10000000Hz VBW:10.3500Hz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 8            Setting : 20</p>	<p>Left blank</p>



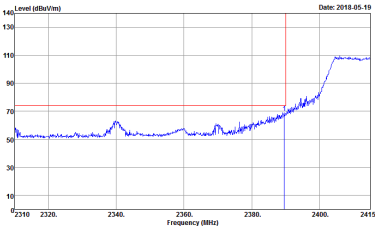
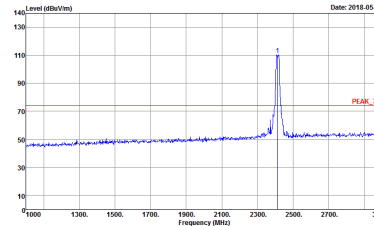
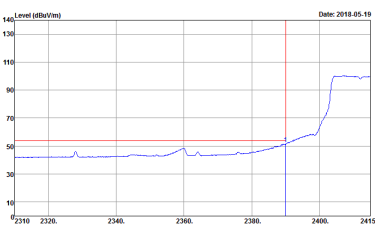
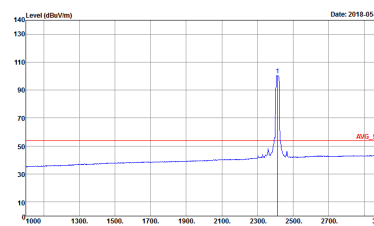
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 9            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 9            Setting : 20</p>
Avg.	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 9            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_91200_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 9            Setting : 20</p>



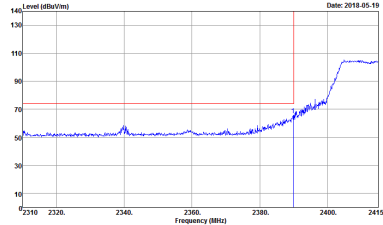
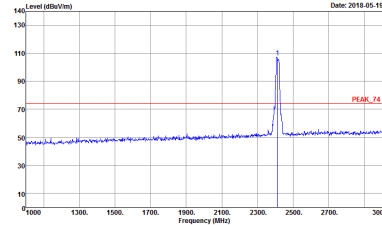
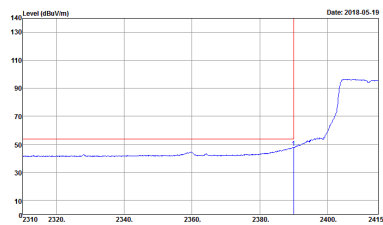
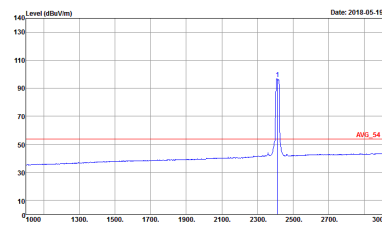
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 9            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 9            Setting : 20</p>
Avg.	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 9            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 9            Setting : 20</p>



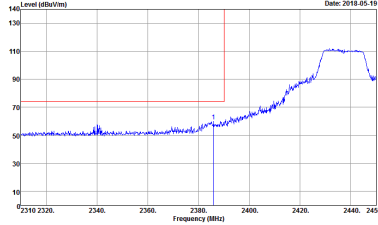
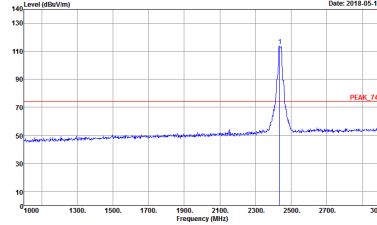
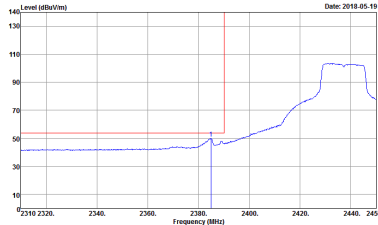
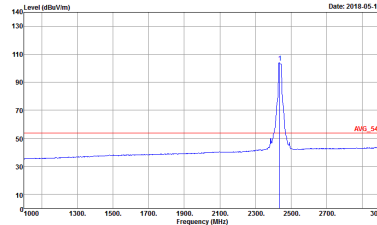
2.4GHz 2400~2483.5MHz  
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
<b>Peak</b>	 <p>Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 10 Setting : 15</p>	 <p>Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 10 Setting : 15</p>
<b>Avg.</b>	 <p>Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 10 Setting : 15</p>	 <p>Site : 03CH12-HY Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 720610-10 Mode : 10 Setting : 15</p>

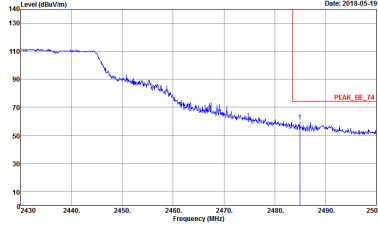
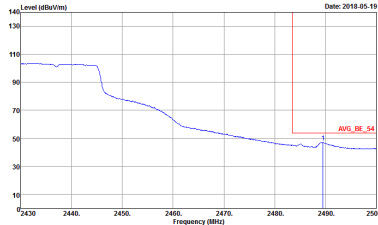


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH12-11Y            Condition : PEAK_9C_74 3m HORN_9120D_1328 VERTICAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 10            Setting : 15</p>	 <p>Site : 03CH12-11Y            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 10            Setting : 15</p>
Avg.	 <p>Site : 03CH12-11Y            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 10            Setting : 15</p>	 <p>Site : 03CH12-11Y            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 10            Setting : 15</p>

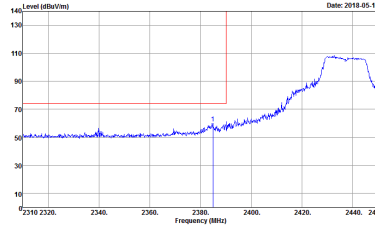
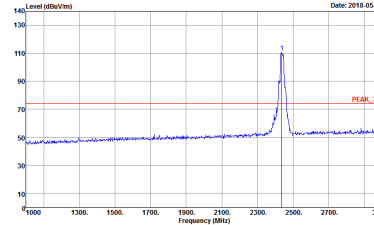
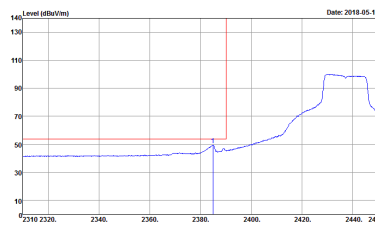
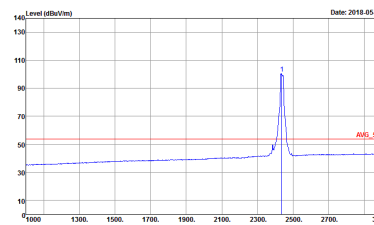


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY            Condition : PEAK_9C_74 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>
Avg.	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>



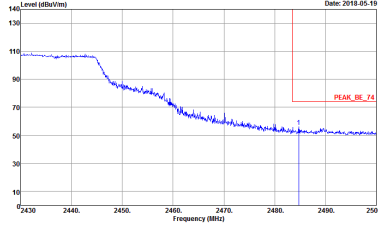
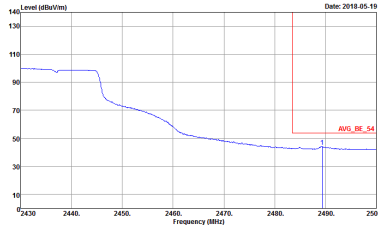
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH2-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            RBW:10000000Hz VBW:3000.0000Hz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH2-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            RBW:10000000Hz VBW:1.0000Hz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>	<p>Left blank</p>



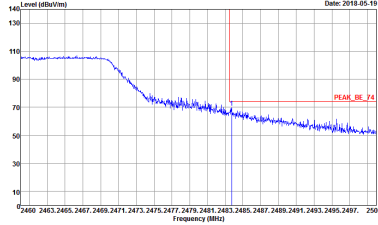
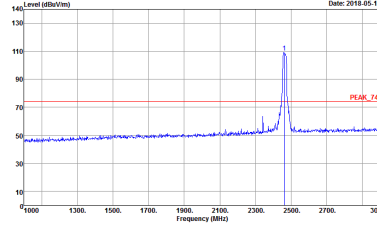
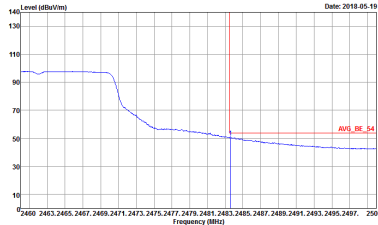
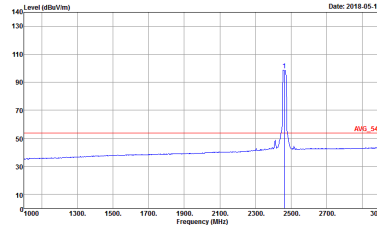
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>
Avg.	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>	 <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>



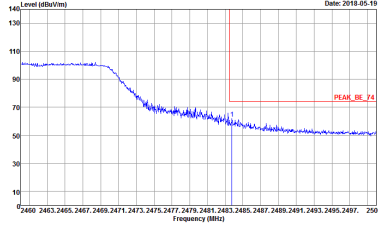
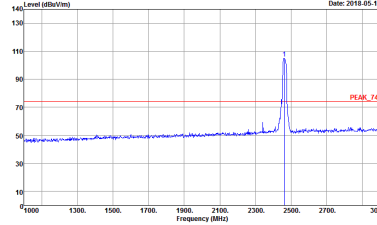
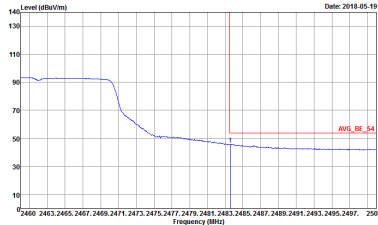
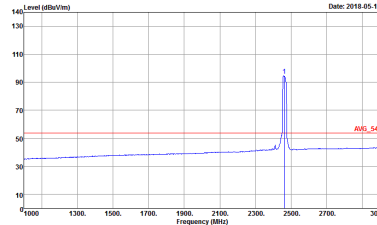


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH2-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:10000000Hz VBW:3000.0000Hz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>	Left blank
Avg.	 <p>Site : 03CH2-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:10000000Hz VBW:1.0000Hz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 11            Setting : 20</p>	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 12            Setting : 15</p>	 <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 12            Setting : 15</p>
Avg.	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 12            Setting : 15</p>	 <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 12            Setting : 15</p>



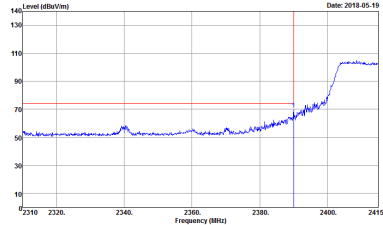
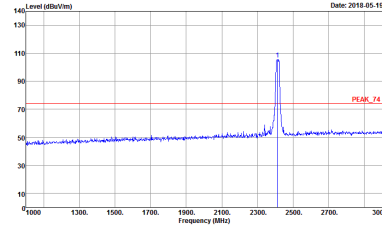
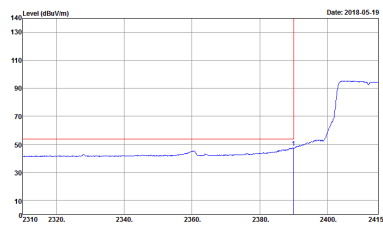
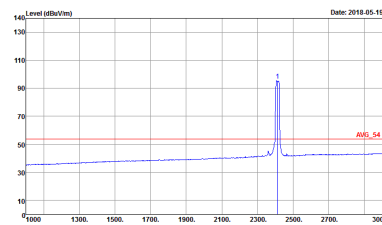
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 12            Setting : 15</p>	 <p>Site : 03CH12-HY            Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 12            Setting : 15</p>
Avg.	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:3000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 12            Setting : 15</p>	 <p>Site : 03CH12-HY            Condition : AVG_F4 3m HORN_9120D_1328 VERTICAL            RBW:3000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 12            Setting : 15</p>



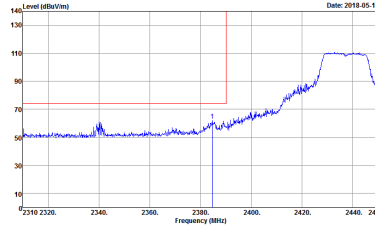
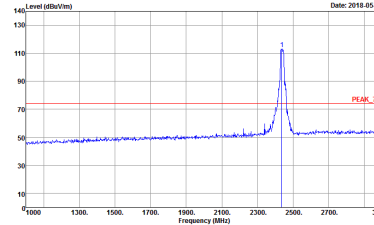
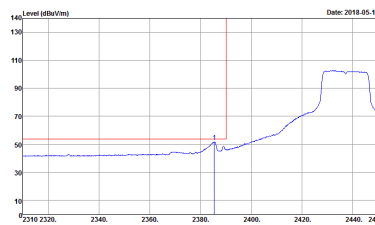
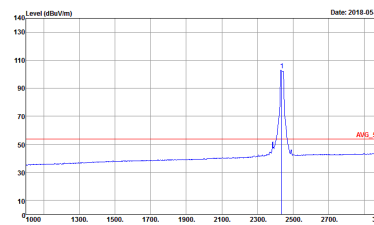
2.4GHz 2400~2483.5MHz  
 WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            Detector : Peak            Project : 720610-10            Mode : 13            Setting : 14.5</p>	<p>Site : 03CH12-HY            Condition : PEAK_F4 3m HORN_9120D_1328 HORIZONTAL            Detector : Peak            Project : 720610-10            Mode : 13            Setting : 14.5</p>
Avg.	<p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            Detector : Peak            Project : 720610-10            Mode : 13            Setting : 14.5</p>	<p>Site : 03CH12-HY            Condition : AVG_F4 3m HORN_9120D_1328 HORIZONTAL            Detector : Peak            Project : 720610-10            Mode : 13            Setting : 14.5</p>

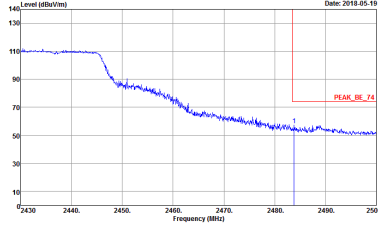
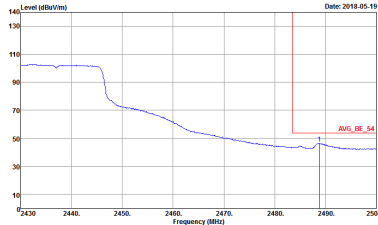


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 13            Setting : 14.5</p>	 <p>Site : 03CH12-HY            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 13            Setting : 14.5</p>
Avg.	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000kHz VBW:1.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 13            Setting : 14.5</p>	 <p>Site : 03CH12-HY            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            RBW:1000.000kHz VBW:1.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 13            Setting : 14.5</p>

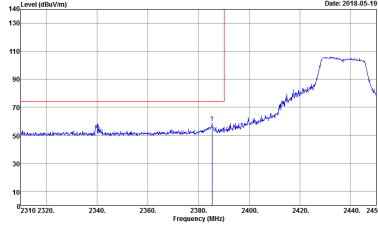
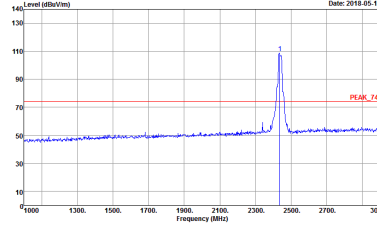
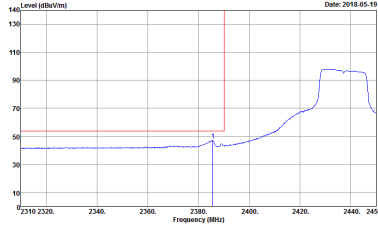
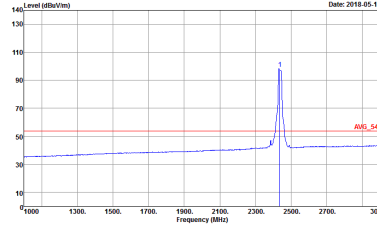


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-11Y            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 14            Setting : 18.5</p>	 <p>Site : 03CH12-11Y            Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 14            Setting : 18.5</p>
Avg.	 <p>Site : 03CH12-11Y            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 14            Setting : 18.5</p>	 <p>Site : 03CH12-11Y            Condition : AVG_54 3m HORN_9120D_1328 HORIZONTAL            RBW:1000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 14            Setting : 18.5</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH2-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            Detector : Peak            Project : 720610-10            Mode : 14            Setting : 18.5</p>	<p>Left blank</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH2-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            Detector : Peak            Project : 720610-10            Mode : 14            Setting : 18.5</p>	<p>Left blank</p>



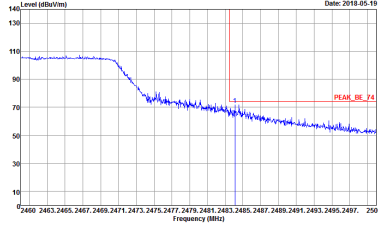
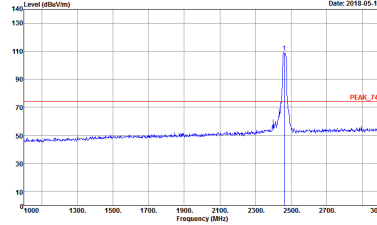
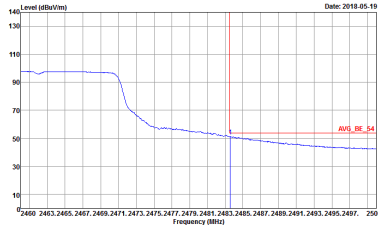
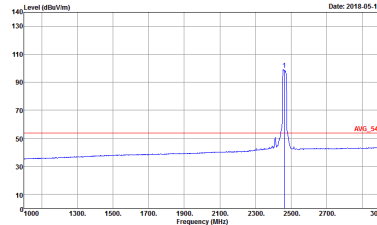
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH12-11Y            Condition : PEAK_BE_14 3m HORN_9120D_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 14            Setting : 18.5</p>	 <p>Site : 03CH12-11Y            Condition : PEAK_F4 3m HORN_9120D_1328 VERTICAL            RBW:3000.000kHz VBW:3000.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 14            Setting : 18.5</p>
Avg.	 <p>Site : 03CH12-11Y            Condition : AVG_BE_14 3m HORN_9120D_1328 VERTICAL            RBW:3000.000kHz VBW:1.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 14            Setting : 18.5</p>	 <p>Site : 03CH12-11Y            Condition : AVG_F4 3m HORN_9120D_1328 VERTICAL            RBW:3000.000kHz VBW:1.000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 14            Setting : 18.5</p>



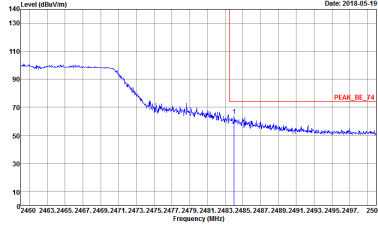
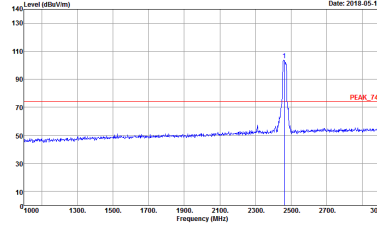
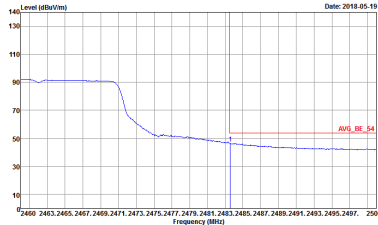
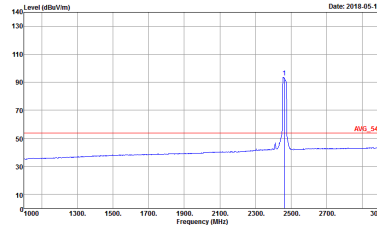


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	<p>Site : 03CH2-HY Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 720610-10 Mode : 14 Setting : 18.5</p>	Left blank
Avg.	<p>Site : 03CH2-HY Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 720610-10 Mode : 14 Setting : 18.5</p>	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 <p>Site : 03CH12-HY            Condition : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 15            Setting : 15</p>	 <p>Site : 03CH12-HY            Condition : PEAK_F4 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:3000.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 15            Setting : 15</p>
Avg.	 <p>Site : 03CH12-HY            Condition : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 15            Setting : 15</p>	 <p>Site : 03CH12-HY            Condition : AVG_F4 3m HORN_9120D_1328 HORIZONTAL            RBW:3000.000KHz VBW:1.000KHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 15            Setting : 15</p>



WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
<p><b>Peak</b></p>	 <p>Site : 03CH12-11Y            Condition : PEAK_BE_74 3m HORN_9120D_1328 VERTICAL            RBW:3000.0000kHz VBW:3000.0000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 15            Setting : 15</p>	 <p>Site : 03CH12-11Y            Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL            RBW:3000.0000kHz VBW:3000.0000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 15            Setting : 15</p>
<p><b>Avg.</b></p>	 <p>Site : 03CH12-11Y            Condition : AVG_BE_54 3m HORN_9120D_1328 VERTICAL            RBW:3000.0000kHz VBW:1.0000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 15            Setting : 15</p>	 <p>Site : 03CH12-11Y            Condition : AVG_54 3m HORN_9120D_1328 VERTICAL            RBW:3000.0000kHz VBW:1.0000kHz SWT:Auto            Detector : Peak            Project : 720610-10            Mode : 15            Setting : 15</p>



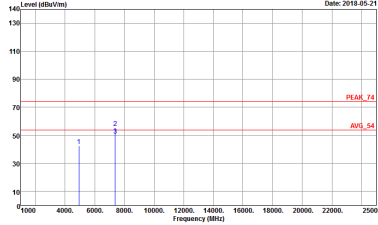
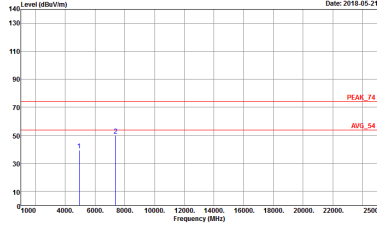
**2.4GHz 2400~2483.5MHz**  
**WIFI 802.11b (Harmonic @ 3m)**

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH12-44Y            Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL            Detector : Peak            Project : 720610-10            Mode : 7            Setting : 20</p>	<p>Site : 03CH12-44Y            Condition : PEAK_74 3m HORN_91200_1328 VERTICAL            Detector : Peak            Project : 720610-10            Mode : 7            Setting : 20</p>



<b>WIFI</b>	<b>2.4GHz 2400~2483.5MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11b CH06 2437MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH2-1#Y          Condition : PEAK_F4 3m HORN_91200_1328 HORIZONTAL          Detector : Peak          Project : F20610-10          Mode : S          Setting : 20</p>	<p>Site : 03CH2-1#Y          Condition : PEAK_F4 3m HORN_91200_1328 VERTICAL          Detector : Peak          Project : F20610-10          Mode : S          Setting : 20</p>



<b>WIFI</b>	<b>2.4GHz 2400~2483.5MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11b CH11 2462MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Vertical</b>
<p><b>Peak</b> <b>Avg.</b></p>	 <p>Site : 03CH12-1#Y Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 720610-10 Mode : 9 Setting : 20</p>	 <p>Site : 03CH12-1#Y Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 720610-10 Mode : 9 Setting : 20</p>

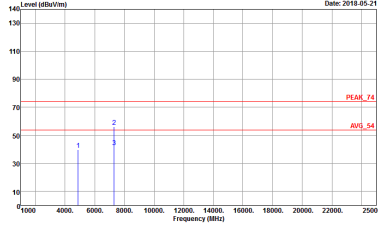
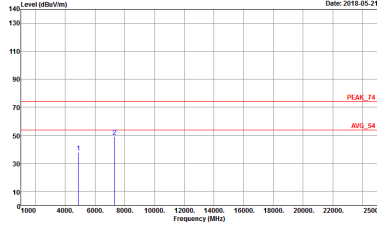


2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH12-44Y  Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL  Detector : Peak  Project : 720610-10  Mode : 10  Setting : 15</p>	<p>Site : 03CH12-44Y  Condition : PEAK_74 3m HORN_91200_1328 VERTICAL  Detector : Peak  Project : 720610-10  Mode : 10  Setting : 15</p>



<b>WIFI</b>	<b>2.4GHz 2400~2483.5MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11g CH06 2437MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Vertical</b>
<p><b>Peak</b> <b>Avg.</b></p>	 <p>Site : 03CH2-1#Y Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 720610-10 Mode : 11 Setting : 20</p>	 <p>Site : 03CH2-1#Y Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 720610-10 Mode : 11 Setting : 20</p>





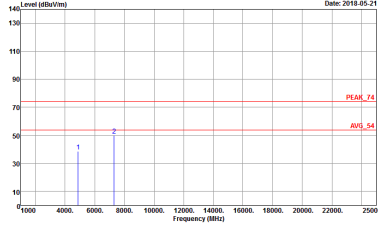
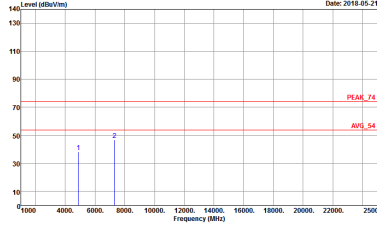
<b>WIFI</b>	<b>2.4GHz 2400~2483.5MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11g CH11 2462MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Vertical</b>
<b>Peak Avg.</b>	<p>Site : 03CH12-1#Y Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : F20610-10 Mode : 12 Setting : 15</p>	<p>Site : 03CH12-1#Y Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : F20610-10 Mode : 12 Setting : 15</p>



2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

Table with 2 columns: Horizontal and Vertical. Each column contains a graph of Level (dBuV/m) vs Frequency (MHz) and associated test parameters like Site, Condition, Detector, Project, Mode, and Setting.



<b>WIFI</b>	<b>2.4GHz 2400~2483.5MHz Harmonic @ 3m</b>	
<b>ANT</b>	<b>802.11n HT20 CH06 2437MHz</b>	
<b>1</b>	<b>Horizontal</b>	<b>Vertical</b>
<p><b>Peak</b> <b>Avg.</b></p>	 <p>Site : 03CH2-1#Y Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720610-10 Mode : 1# Setting : 18.5</p>	 <p>Site : 03CH2-1#Y Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 720610-10 Mode : 1# Setting : 18.5</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
<b>Peak</b> <b>Avg.</b>	<p>Site : 03CH2-1#Y Condition : PEAK_74 3m HORN_91200_1328 HORIZONTAL Detector : Peak Project : 720610-10 Mode : 15 Setting : 15</p>	<p>Site : 03CH2-1#Y Condition : PEAK_74 3m HORN_91200_1328 VERTICAL Detector : Peak Project : 720610-10 Mode : 15 Setting : 15</p>



Emission below 1GHz
2.4GHz WIFI 802.11n HT20 (LF)

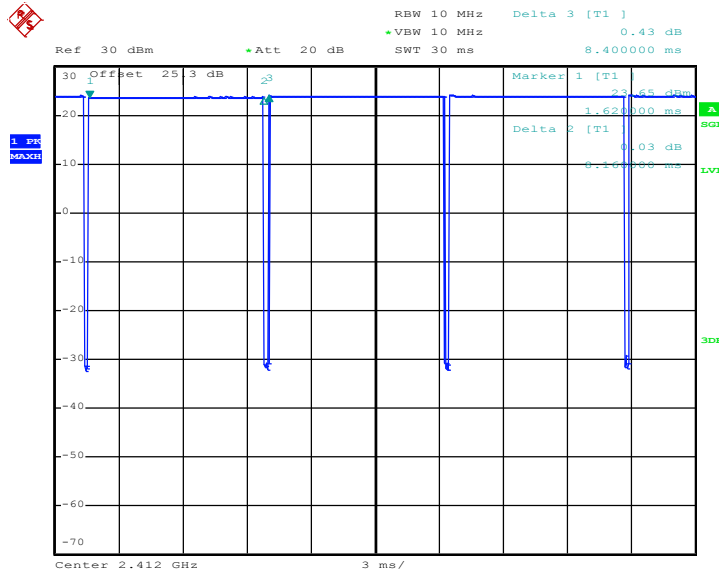
Table with 3 columns: WIFI (2.4GHz 2400~2483.5MHz), ANT (802.11n HT20 LF), and 1 (Horizontal/Vertical). It contains two spectral plots showing Level (dBuV/m) vs Frequency (MHz) for QP/Peak detection.



## Appendix E. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11b	97.14	8160	0.12	300Hz	0.13
802.11g	86.62	1360	0.74	1kHz	0.62
2.4GHz 802.11n HT20	85.91	1280	0.78	1kHz	0.66

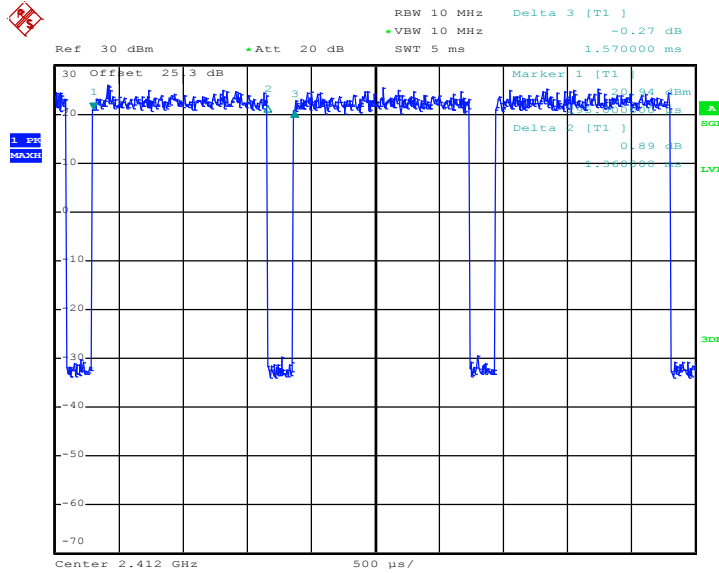
### 802.11b



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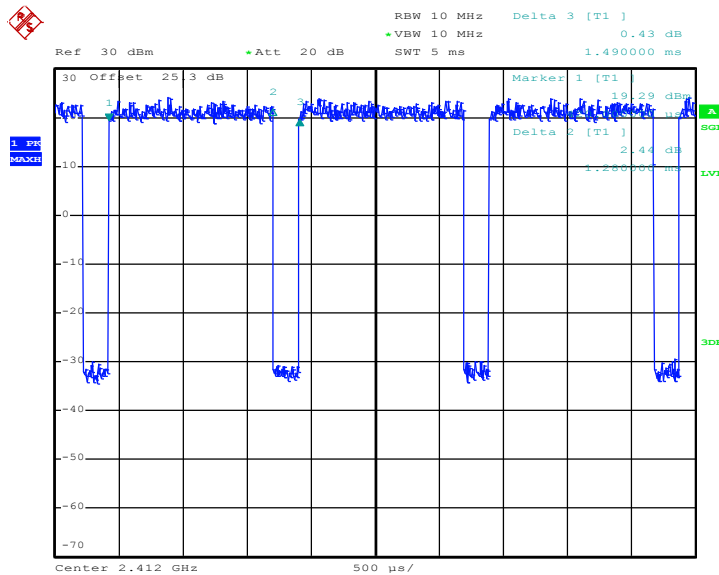


802.11g



Date: 28.APR.2018 16:43:19

802.11n HT20



Date: 28.APR.2018 17:02:35