

FCC RF Test Report

APPLICANT : MITAC International Corp
EQUIPMENT : Tablet
BRAND NAME : Mio, Mitac, Stryker
MODEL NAME : N450
FCC ID : P4Q-N450W
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Dec. 25, 2015 and testing was completed on Jan. 19, 2016. 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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FCC ID : P4Q-N450W

Page Number : 1 of 40

Report Issued Date : Feb. 24, 2016

Report Version : Rev. 01

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR5D2503C	Rev. 01	Initial issue of report	Feb. 24, 2016

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 0.26 dB at 4824.000 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 7.00 dB at 0.454 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

MITAC International Corp

Building B, No. 209, Sec.1, Nan Gang Rd., Nan Gang Dist., Taipei City 11568, 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

Product Feature	
Equipment	Tablet
Brand Name	Mio, Mitac, Stryker
Model Name	N450
FCC ID	P4Q-N450W
EUT supports Radios application	NFC WLAN 11a/b/g/n HT20/HT40 Bluetooth v4.0 EDR/LE
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	802.11b/g/n : 2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to Antenna	802.11b : 14.45 dBm (0.0279 W) 802.11g : 19.52 dBm (0.0895 W) 802.11n HT20 : 19.45 dBm (0.0881 W) 802.11n HT40 : 18.83 dBm (0.0764 W)
99% Occupied Bandwidth	802.11b : 14.65MHz 802.11g : 20.05MHz 802.11n HT20 : 19.65MHz 802.11n HT40 : 37.10MHz
Antenna Type	802.11b/g/n : PIFA Antenna type with gain 2.30 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

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

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.		
Test Site Location	No. 52, Hwa Ya 1 st 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		
Test Site No.	Sporton Site No.		
	TH05-HY	CO05-HY	03CH07-HY

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

1.7 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 v03r03
- 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

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: conducted emission (150 kHz to 30 MHz) and radiated 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 (X plane) were recorded in this report.

The final configuration from all the combinations and the worst-case data rates were investigated by measuring the maximum power across all the data rates and modulation modes under section 2.2.

Based on the worst configuration found above, the RF power setting is set individually to meet FCC compliance limit for the final conducted and radiated tests shown in section 2.3.

2.1 Carrier Frequency 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 Pre-Scanned RF Power

Preliminary tests were performed in different data rate and data rate associated with the highest power were chosen for full test shown in the following tables.

2.4GHz 802.11b mode				
Data Rate (MHz)	1M bps	2M bps	5.5M bps	11M bps
Peak Power (dBm)	14.45	14.41	14.43	14.44

2.4GHz 802.11g mode								
Data Rate (MHz)	6M bps	9M bps	12M bps	18M bps	24M bps	36M bps	48M bps	54M bps
Peak Power (dBm)	19.31	19.28	19.26	19.30	19.22	19.24	19.25	19.30

2.4GHz 802.11n HT20 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	19.45	19.42	19.40	19.44	19.38	19.41	19.43	19.36

2.4GHz 802.11n HT40 mode								
Data Rate (MHz)	MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
Peak Power (dBm)	18.83	18.79	18.81	18.82	18.81	18.75	18.78	18.81

2.3 Test Mode

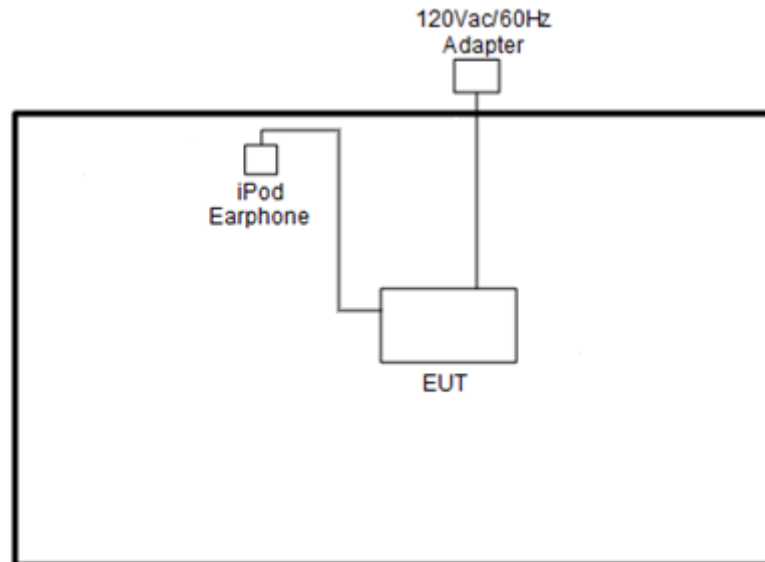
Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates from the power table described in section 2.2.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

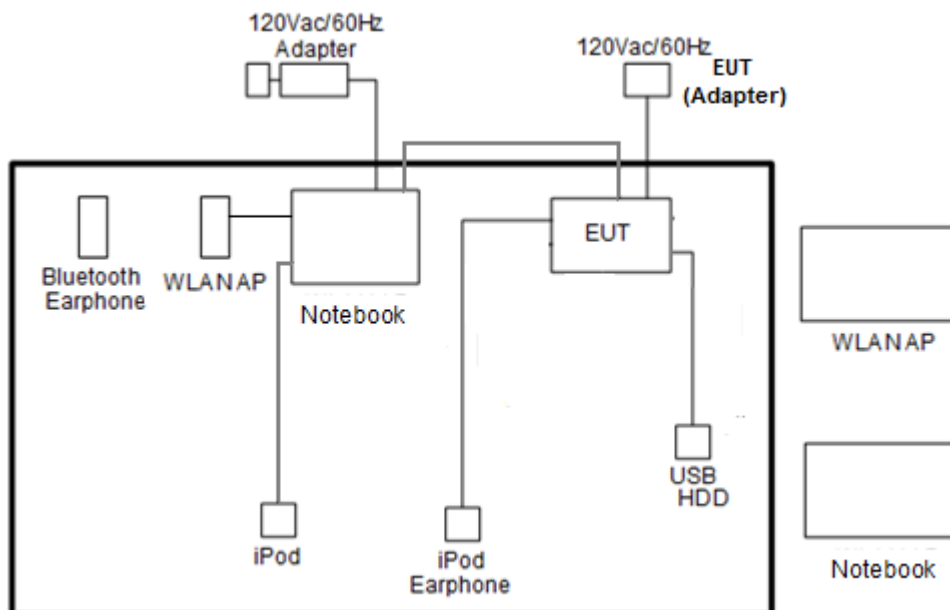
Test Cases	
AC Conducted Emission	Mode 1 : WLAN (2.4GHz) Link + Bluetooth Link + Camera (Rear) + USB HDD + Adapter + Micro SD + Micro USB Cable (Data Link with Notebook) + Battery + Earphone

2.4 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.5 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	WLAN AP	D-Link	DIR-865L	KA2IR865LA1	N/A	Unshielded, 1.8 m
2.	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
3.	Notebook	DELL	P20G	FCC DoC/ Contains FCC ID: QDS-BRCM1051	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Sony Ericsson	MW600	PY7DDA-2029	N/A	N/A
5.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
6.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A
7.	USB HDD	PQI	H568V	FCC DoC	Shielded, 0.45 m	N/A
8.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A

2.6 EUT Operation Test Setup

For WLAN function, programmed RF utility, "Putty" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving signals.

2.7 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.

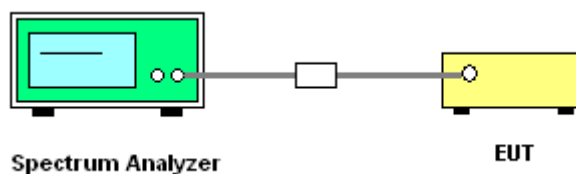
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

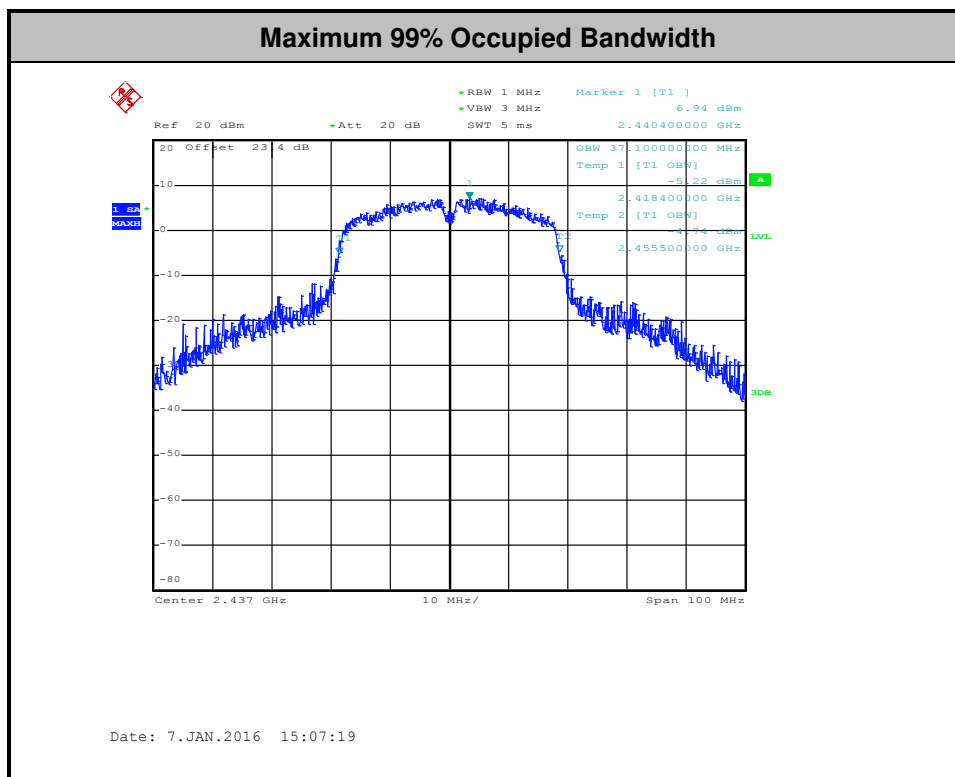
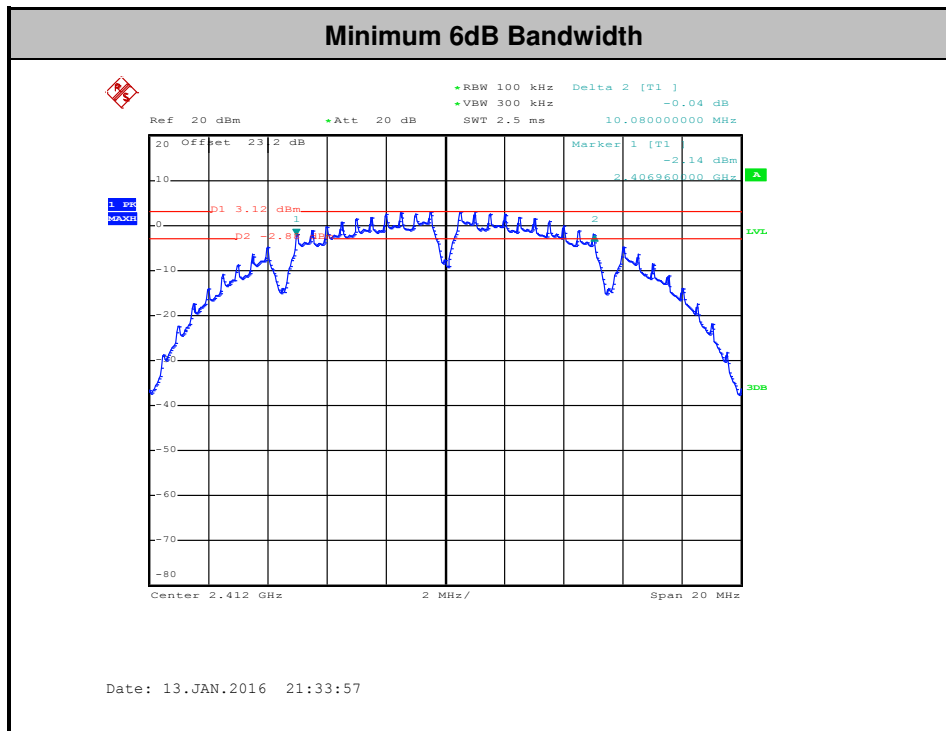
1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r03.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit 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 of this test report.



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 of directional gain greater than 6dBi are 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.

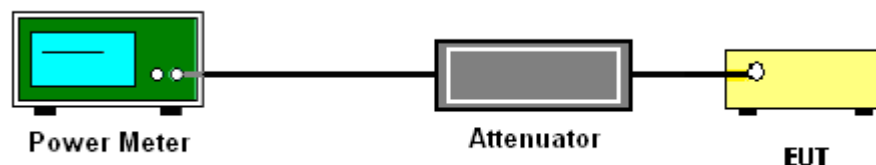
3.2.2 Measuring Instruments

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 v03r03 section 9.1.2 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 of this test report.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A of this test report.

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.

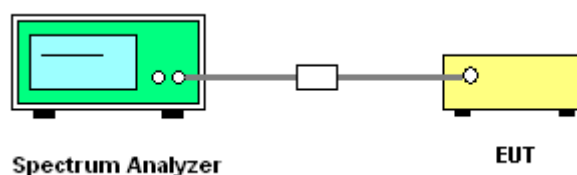
3.3.2 Measuring Instruments

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 v03r03
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.

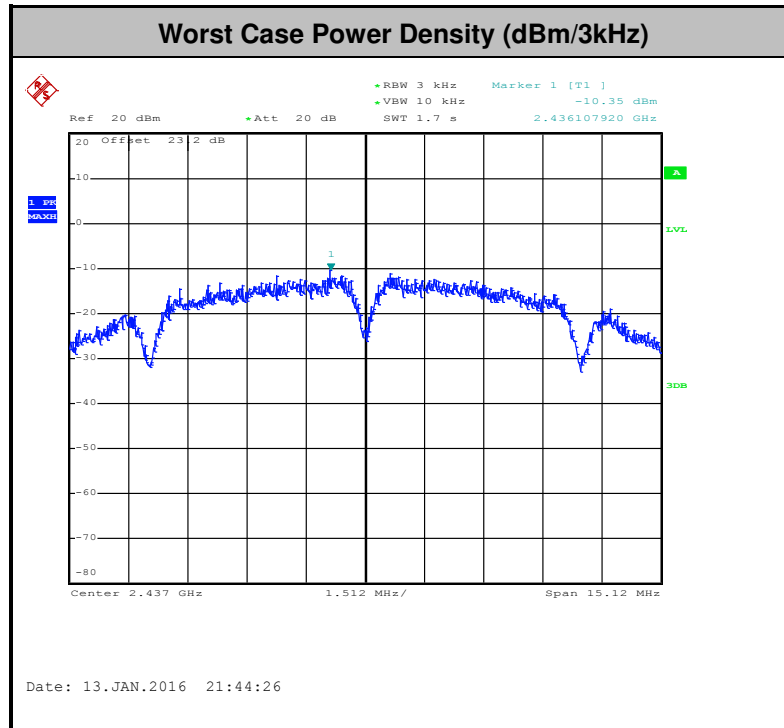
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A of this test report.



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 and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

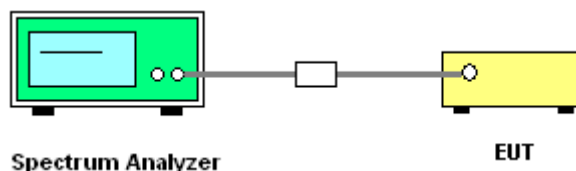
3.4.2 Measuring Instruments

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 v03r03.
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.

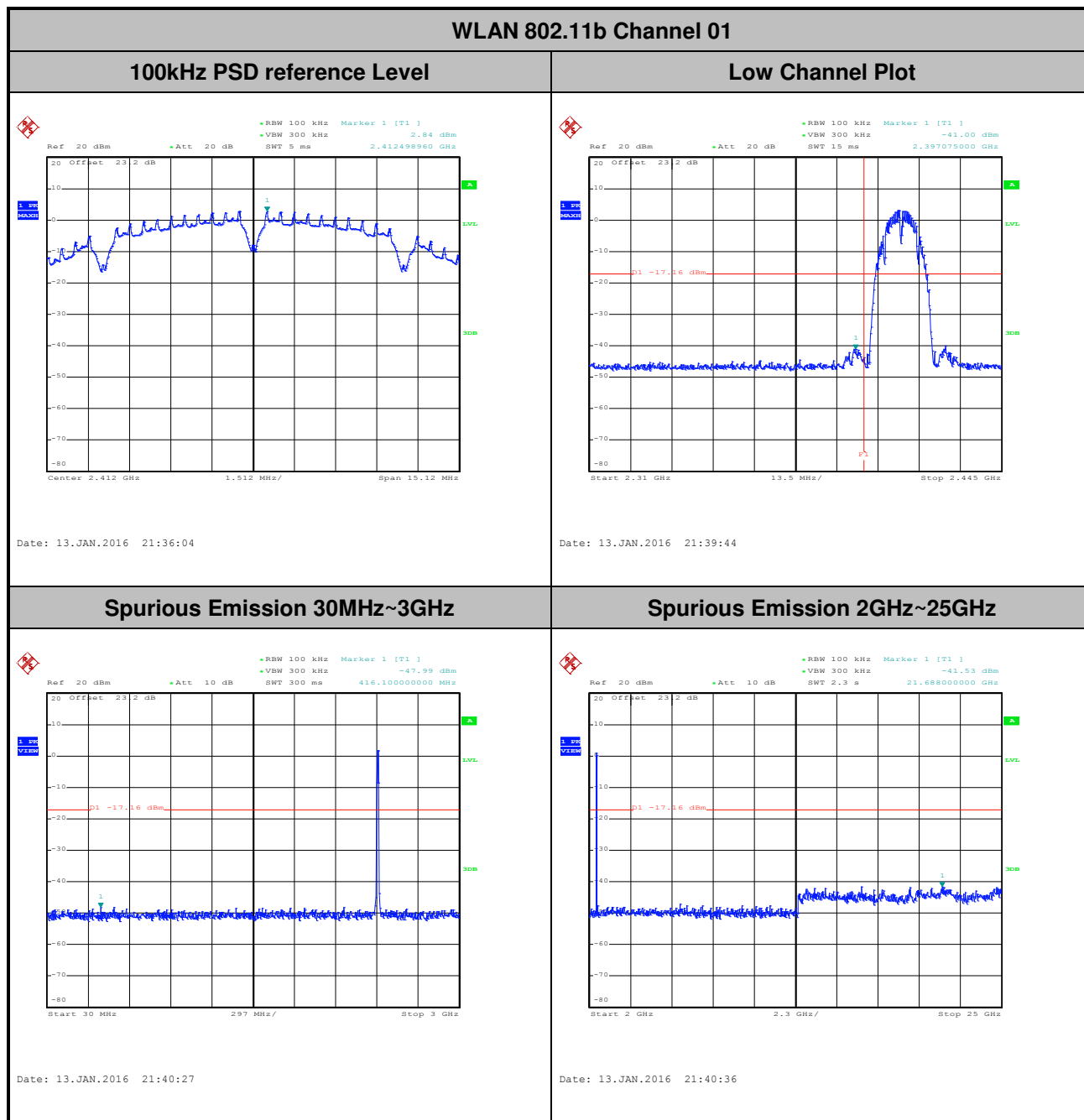
3.4.4 Test Setup





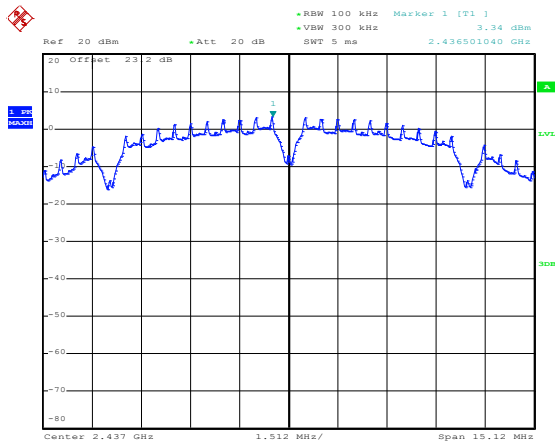
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Mode :	802.11b	Temperature :	21~26℃
Test Band :	2.4GHz Low	Relative Humidity :	45~54%
Test Channel :	01	Test Engineer :	Luffy Lin

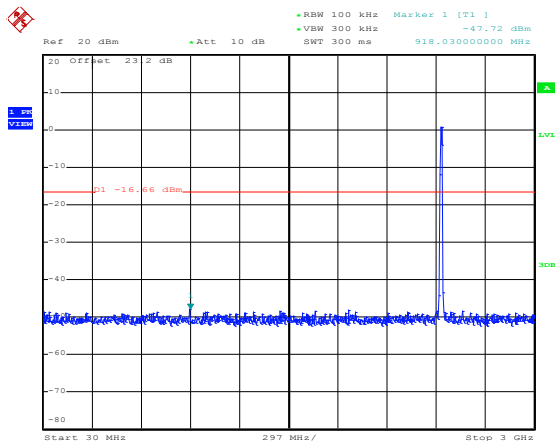




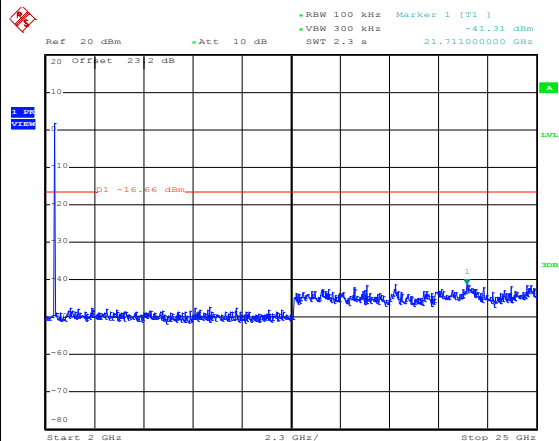
Test Mode :	802.11b	Temperature :	21~26°C
Test Band :	2.4GHz Mid	Relative Humidity :	45~54%
Test Channel :	06	Test Engineer :	Luffy Lin

WLAN 802.11b Channel 06**100kHz PSD reference Level**

Date: 13.JAN.2016 21:44:49

Spurious Emission 30MHz~3GHz

Date: 13.JAN.2016 21:45:30

Spurious Emission 2GHz~25GHz

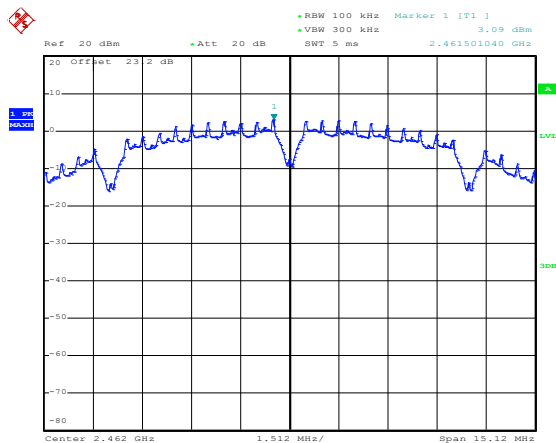
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Test Mode :	802.11b	Temperature :	21~26°C
Test Band :	2.4GHz High	Relative Humidity :	45~54%
Test Channel :	11	Test Engineer :	Luffy Lin

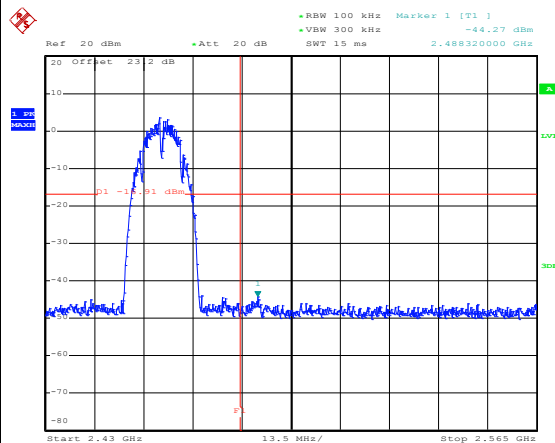
WLAN 802.11b Channel 11

100kHz PSD reference Level



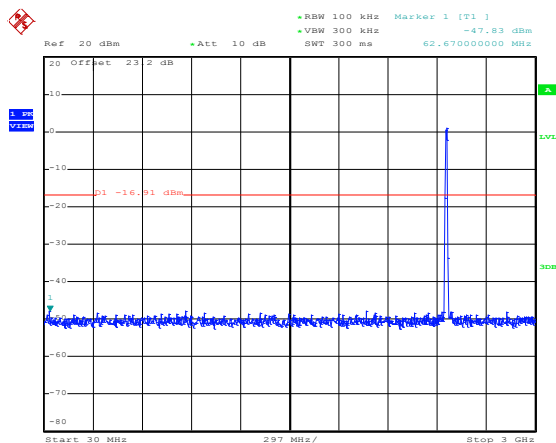
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High Channel Plot



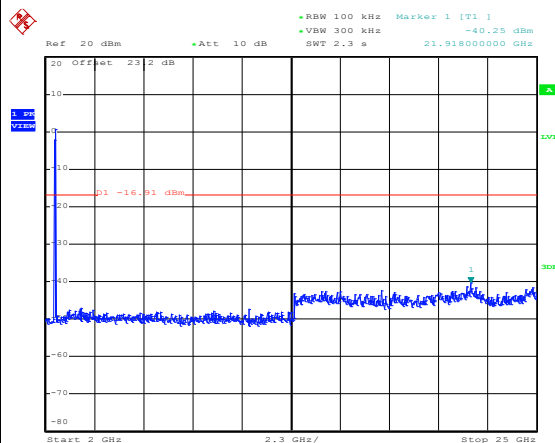
Date: 13.JAN.2016 21:49:59

Spurious Emission 30MHz~3GHz



Date: 13.JAN.2016 21:50:29

Spurious Emission 2GHz~25GHz

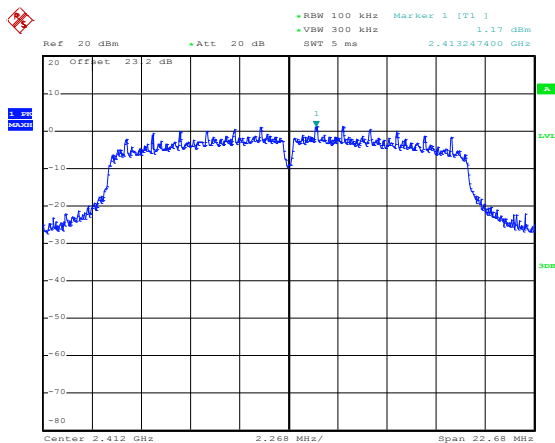


Date: 13.JAN.2016 21:50:37

Test Mode :	802.11g	Temperature :	21~26℃
Test Band :	2.4GHz Low	Relative Humidity :	45~54%
Test Channel :	01	Test Engineer :	Luffy Lin

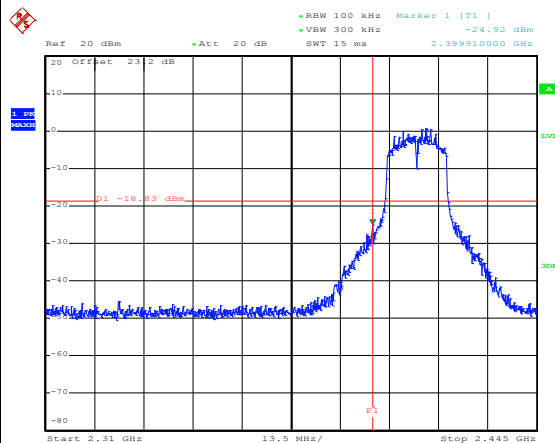
WLAN 802.11g Channel 01

100kHz PSD reference Level



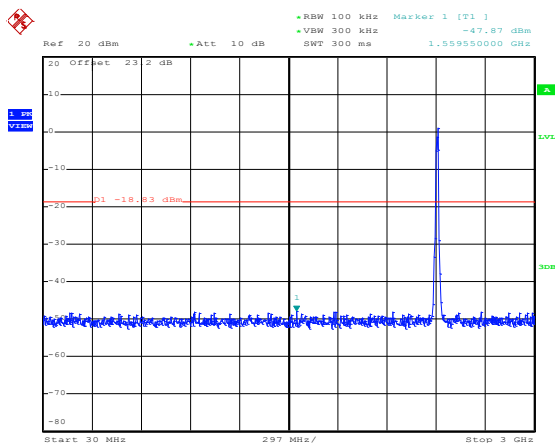
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Low Channel Plot



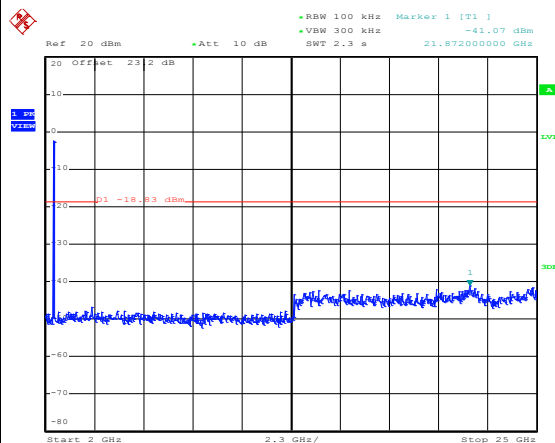
Date: 13.JAN.2016 22:02:06

Spurious Emission 30MHz~3GHz



Date: 13.JAN.2016 22:02:18

Spurious Emission 2GHz~25GHz



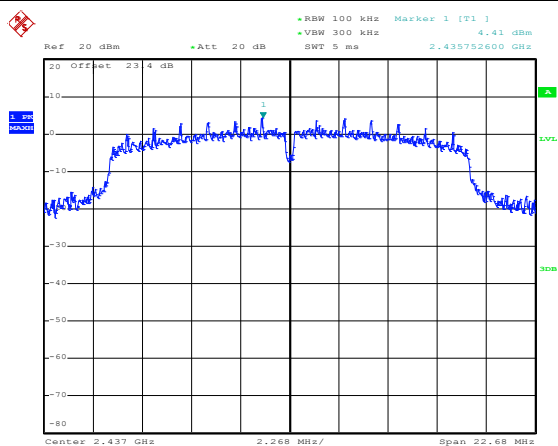
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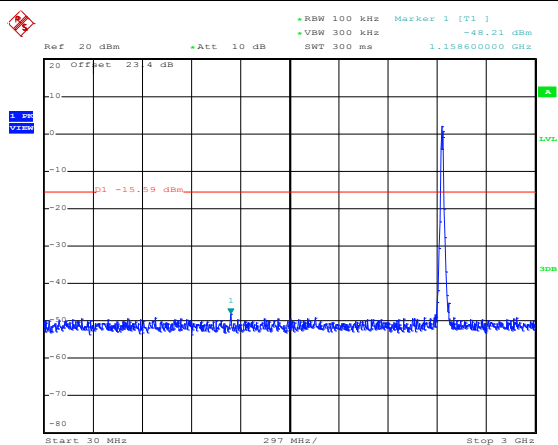
Test Mode :	802.11g	Temperature :	21~26°C
Test Band :	2.4GHz Mid	Relative Humidity :	45~54%
Test Channel :	06	Test Engineer :	Luffy Lin

WLAN 802.11g Channel 06

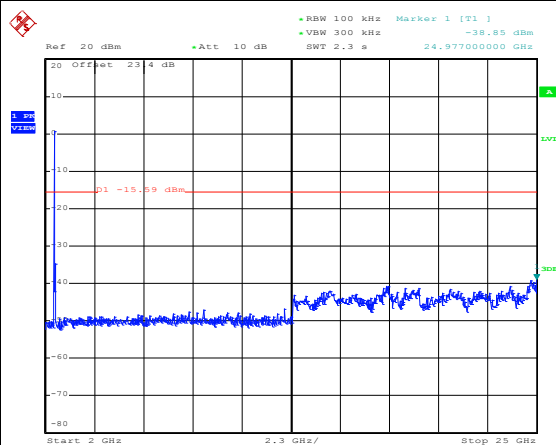
100kHz PSD reference Level



Spurious Emission 30MHz~3GHz

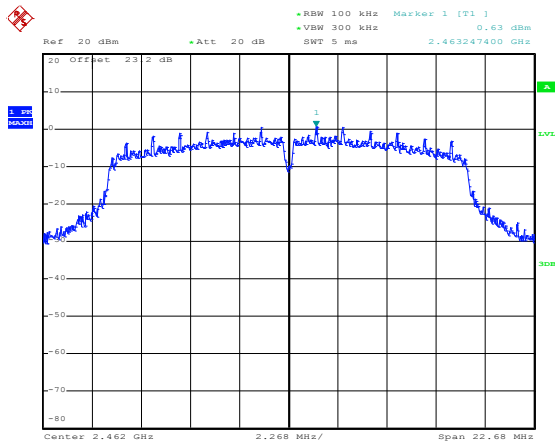


Spurious Emission 2GHz~25GHz

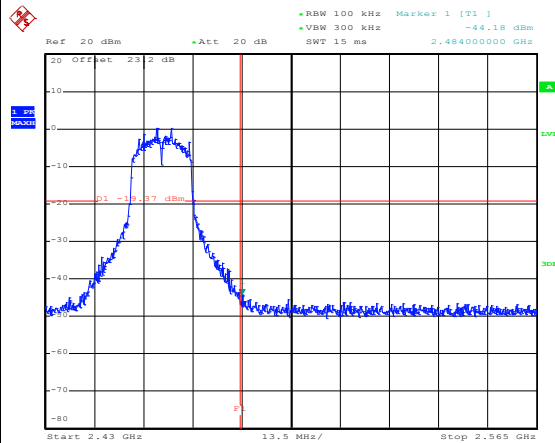




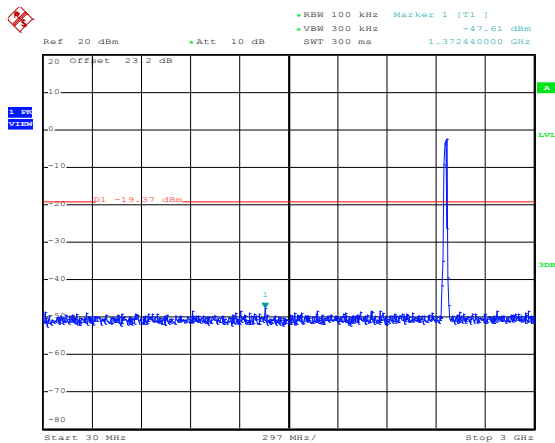
Test Mode :	802.11g	Temperature :	21~26°C
Test Band :	2.4GHz High	Relative Humidity :	45~54%
Test Channel :	11	Test Engineer :	Luffy Lin

WLAN 802.11g Channel 11**100kHz PSD reference Level**

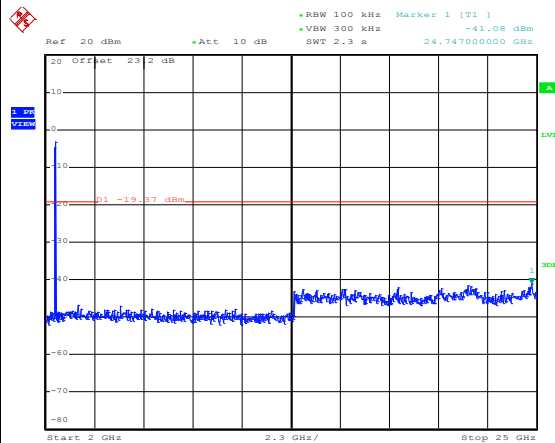
Date: 13.JAN.2016 22:06:41

High Channel Plot

Date: 13.JAN.2016 22:06:56

Spurious Emission 30MHz~3GHz

Date: 13.JAN.2016 22:07:12

Spurious Emission 2GHz~25GHz

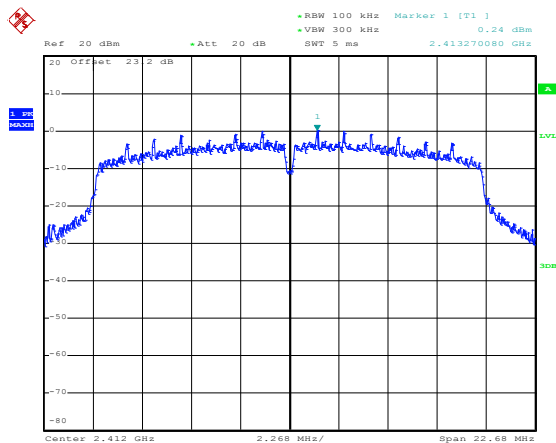
Date: 13.JAN.2016 22:07:20



Test Mode :	802.11n HT20	Temperature :	21~26°C
Test Band :	2.4GHz Low	Relative Humidity :	45~54%
Test Channel :	01	Test Engineer :	Luffy Lin

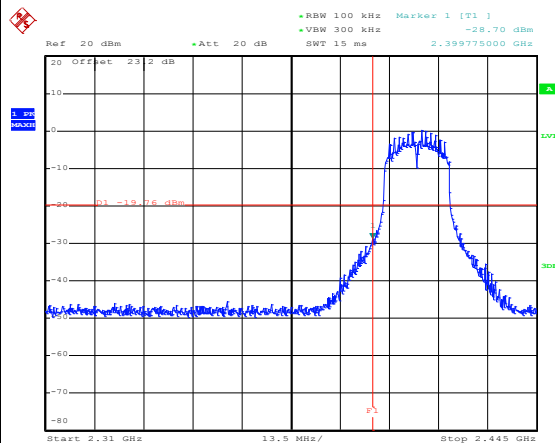
WLAN 802.11n HT20 Channel 01

100kHz PSD reference Level



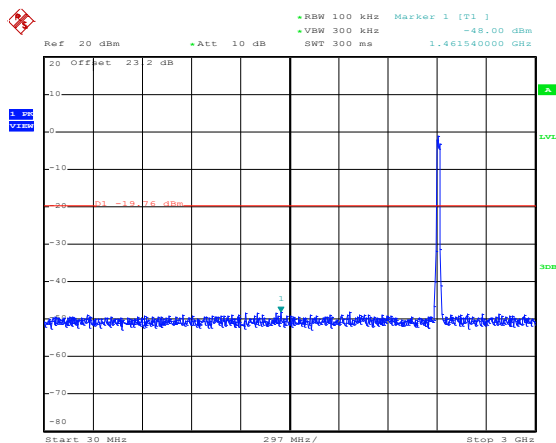
Date: 13.JAN.2016 22:13:30

Low Channel Plot



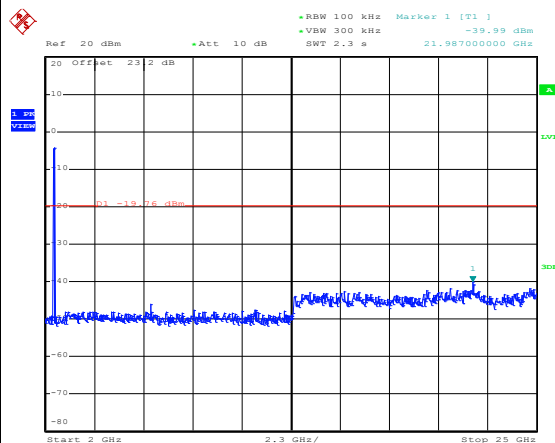
Date: 13.JAN.2016 22:13:56

Spurious Emission 30MHz~3GHz



Date: 13.JAN.2016 22:14:21

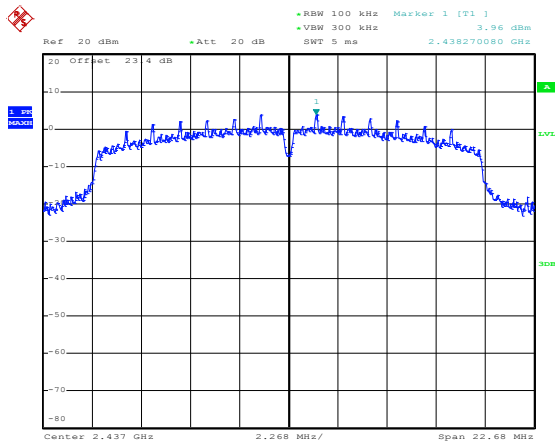
Spurious Emission 2GHz~25GHz



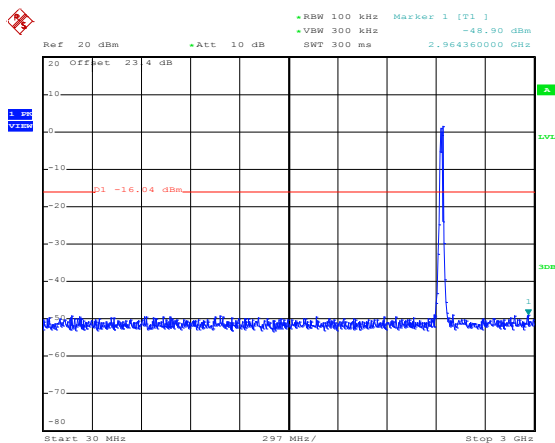
Date: 13.JAN.2016 22:14:29



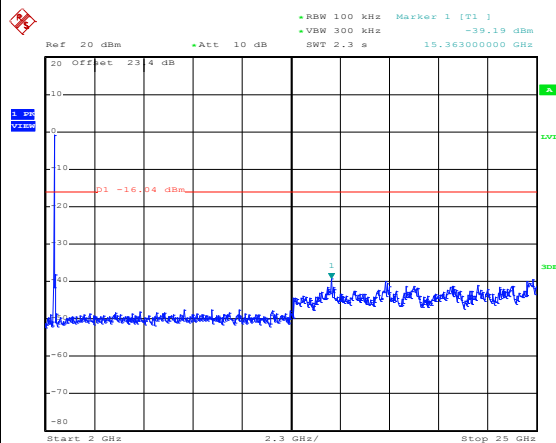
Test Mode :	802.11n HT20	Temperature :	21~26°C
Test Band :	2.4GHz Mid	Relative Humidity :	45~54%
Test Channel :	06	Test Engineer :	Luffy Lin

WLAN 802.11n HT20 Channel 06**100kHz PSD reference Level**

Date: 7.JAN.2016 14:59:01

Spurious Emission 30MHz~3GHz

Date: 7.JAN.2016 14:59:21

Spurious Emission 2GHz~25GHz

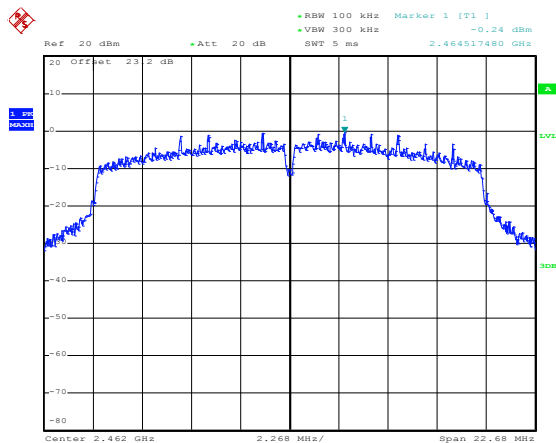
Date: 7.JAN.2016 14:59:29



Test Mode :	802.11n HT20	Temperature :	21~26°C
Test Band :	2.4GHz High	Relative Humidity :	45~54%
Test Channel :	11	Test Engineer :	Luffy Lin

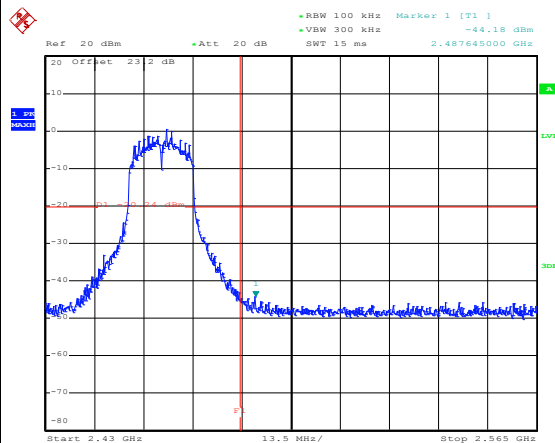
WLAN 802.11n HT20 Channel 11

100kHz PSD reference Level



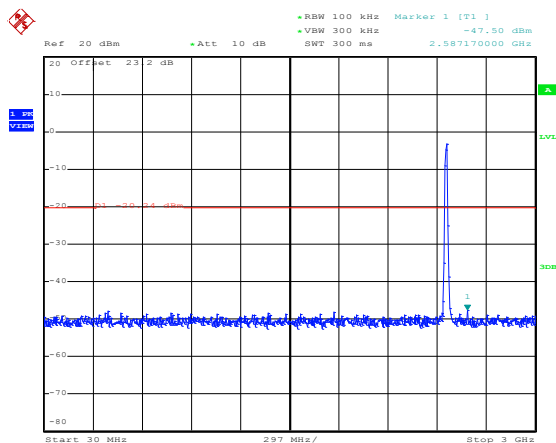
Date: 13.JAN.2016 22:26:02

High Channel Plot



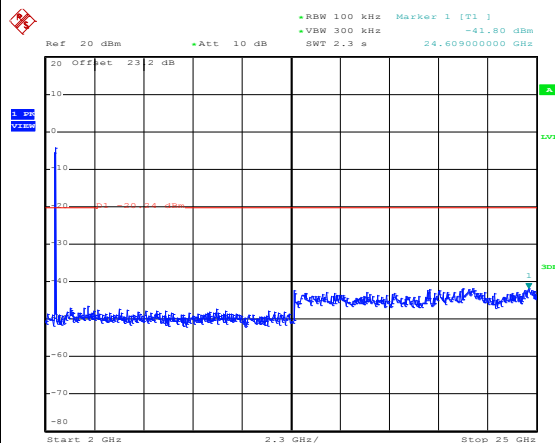
Date: 13.JAN.2016 22:27:45

Spurious Emission 30MHz~3GHz



Date: 13.JAN.2016 22:27:58

Spurious Emission 2GHz~25GHz



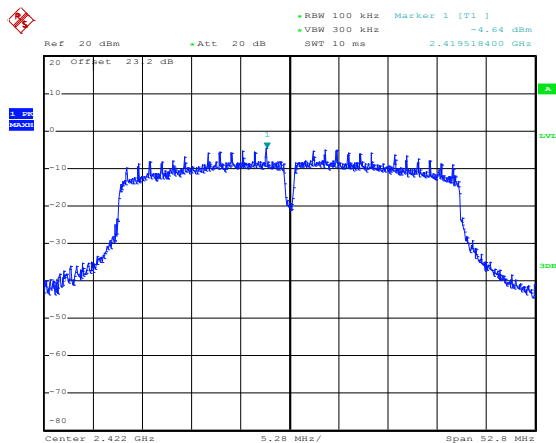
Date: 13.JAN.2016 22:28:06



Test Mode :	802.11n HT40	Temperature :	21~26°C
Test Band :	2.4GHz Low	Relative Humidity :	45~54%
Test Channel :	03	Test Engineer :	Luffy Lin

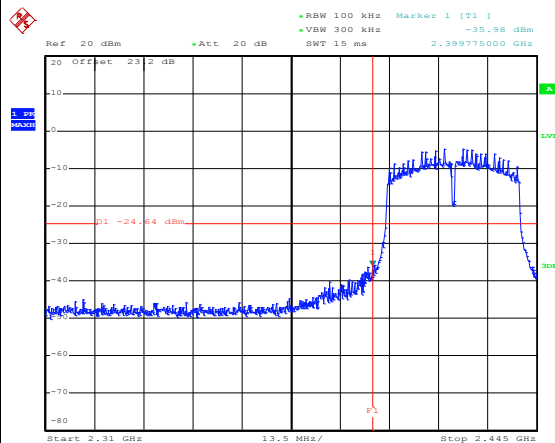
WLAN 802.11n HT40 Channel 03

100kHz PSD reference Level



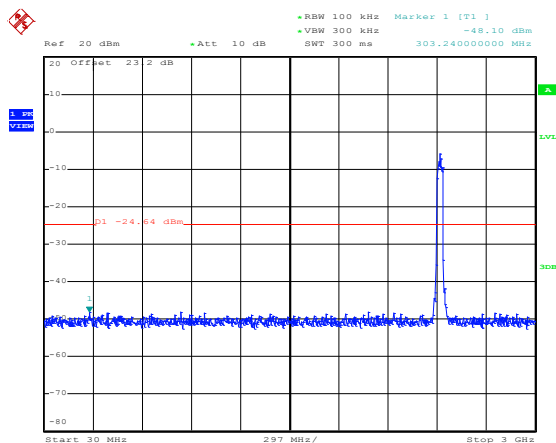
Date: 13.JAN.2016 22:35:21

Low Channel Plot



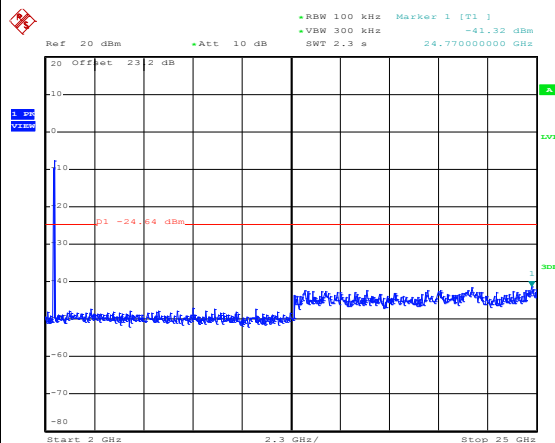
Date: 13.JAN.2016 22:35:40

Spurious Emission 30MHz~3GHz



Date: 13.JAN.2016 22:36:14

Spurious Emission 2GHz~25GHz

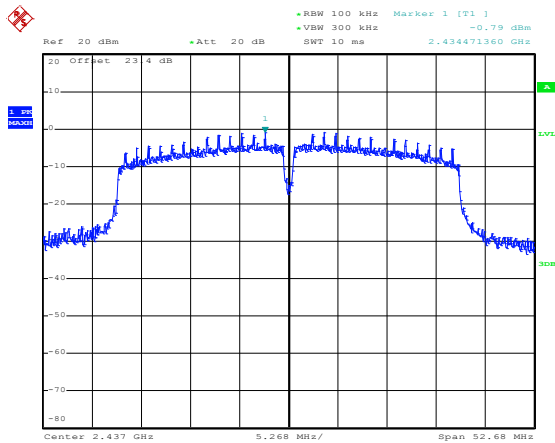


Date: 13.JAN.2016 22:36:23

Test Mode :	802.11n HT40	Temperature :	21~26℃
Test Band :	2.4GHz Mid	Relative Humidity :	45~54%
Test Channel :	06	Test Engineer :	Luffy Lin

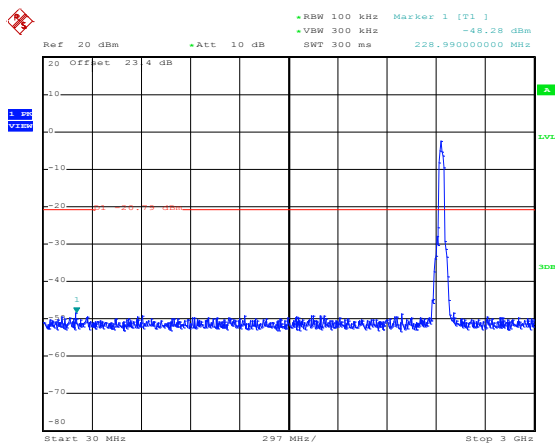
WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level



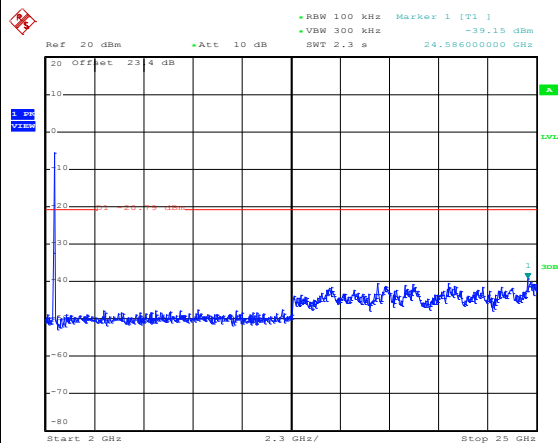
Date: 7.JAN.2016 11:46:34

Spurious Emission 30MHz~3GHz



Date: 7.JAN.2016 11:49:34

Spurious Emission 2GHz~25GHz



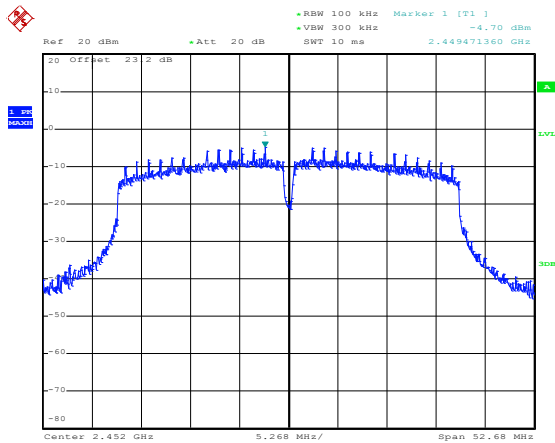
Date: 7.JAN.2016 11:49:42



Test Mode :	802.11n HT40	Temperature :	21~26°C
Test Band :	2.4GHz High	Relative Humidity :	45~54%
Test Channel :	09	Test Engineer :	Luffy Lin

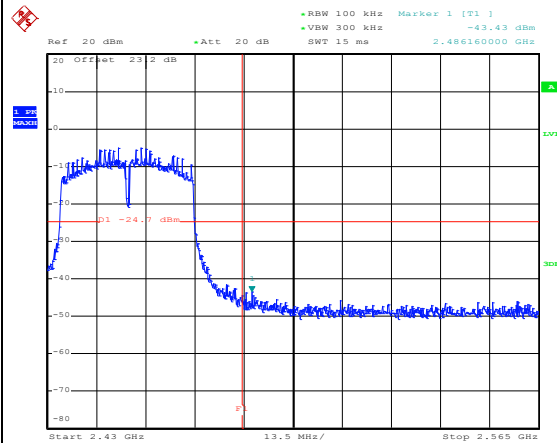
WLAN 802.11n HT40 Channel 09

100kHz PSD reference Level



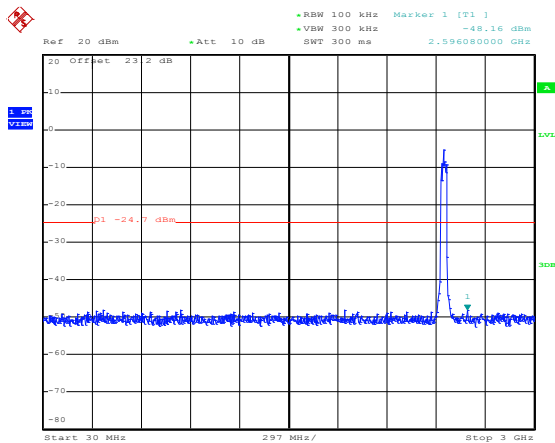
Date: 13.JAN.2016 22:42:24

High Channel Plot



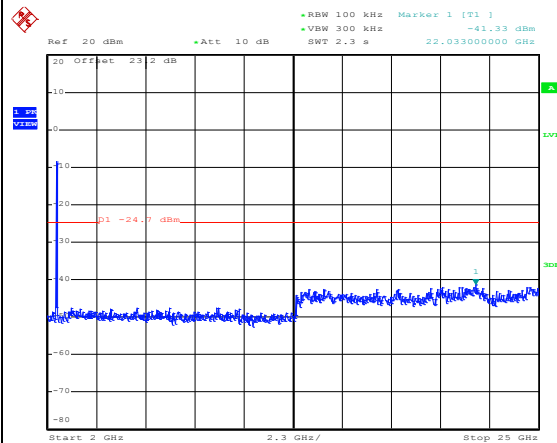
Date: 13.JAN.2016 22:42:37

Spurious Emission 30MHz~3GHz



Date: 13.JAN.2016 22:42:49

Spurious Emission 2GHz~25GHz



Date: 13.JAN.2016 22:42:57

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 FCC section 15.209 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 v03r03.
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 - Preamplifier Factor = Level
6. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. 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.

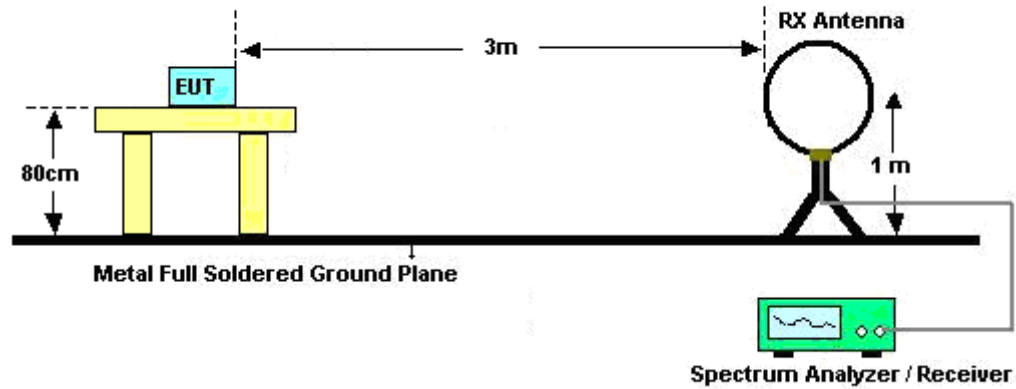
For average measurement:

 - 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.

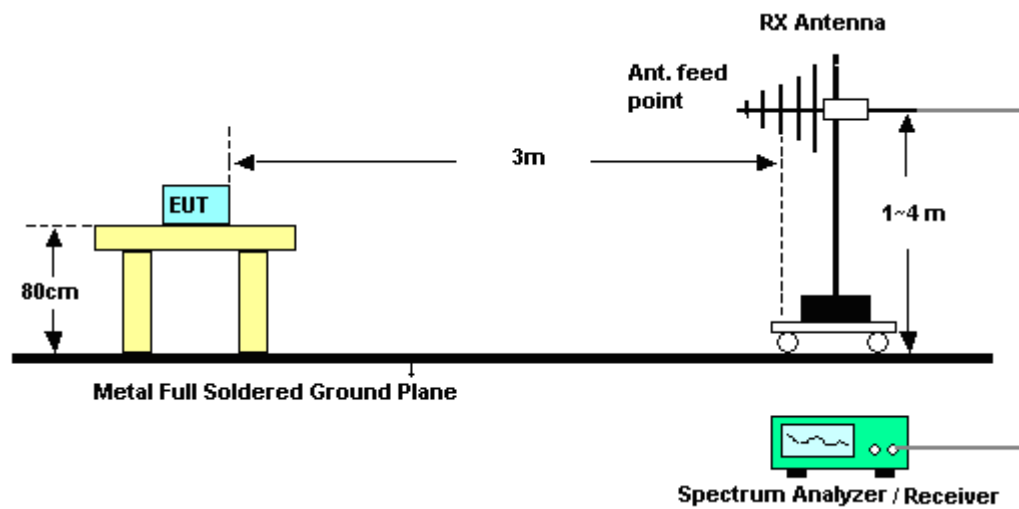
Band	Duty Cycle(%)	T(μ s)	1/T(kHz)	VBW Setting
802.11b	97.26	8600	0.12	300Hz
802.11g	85.21	1440	0.69	1kHz
2.4GHz 802.11n HT20	83	1328	0.75	1kHz
2.4GHz 802.11n HT40	72.83	670	1.49	3kHz

3.5.4 Test Setup

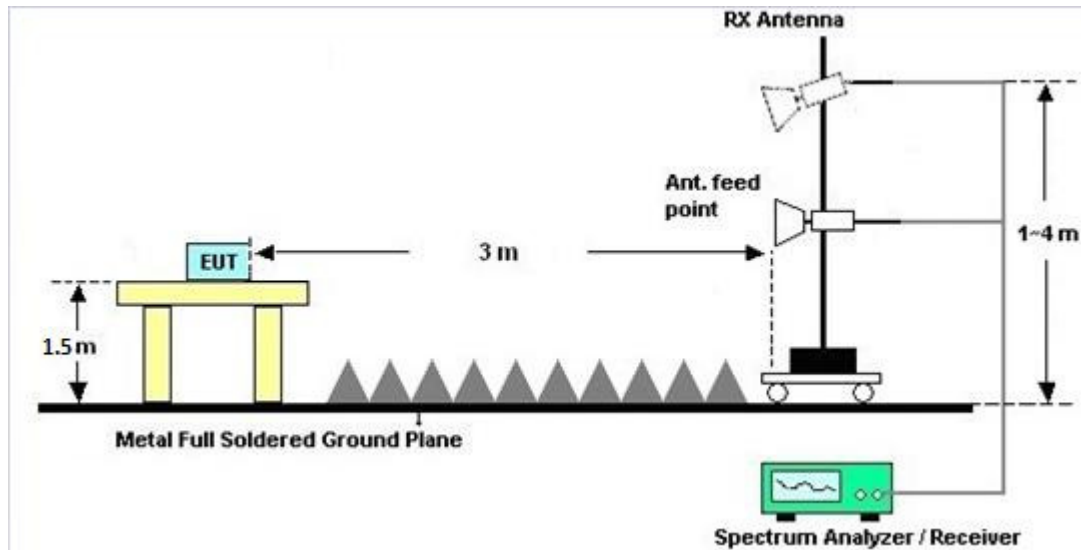
For radiated emissions below 30MHz



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 per 15.31(o) was not reported.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.5.7 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix B.

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 (dB μ V)	
	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.

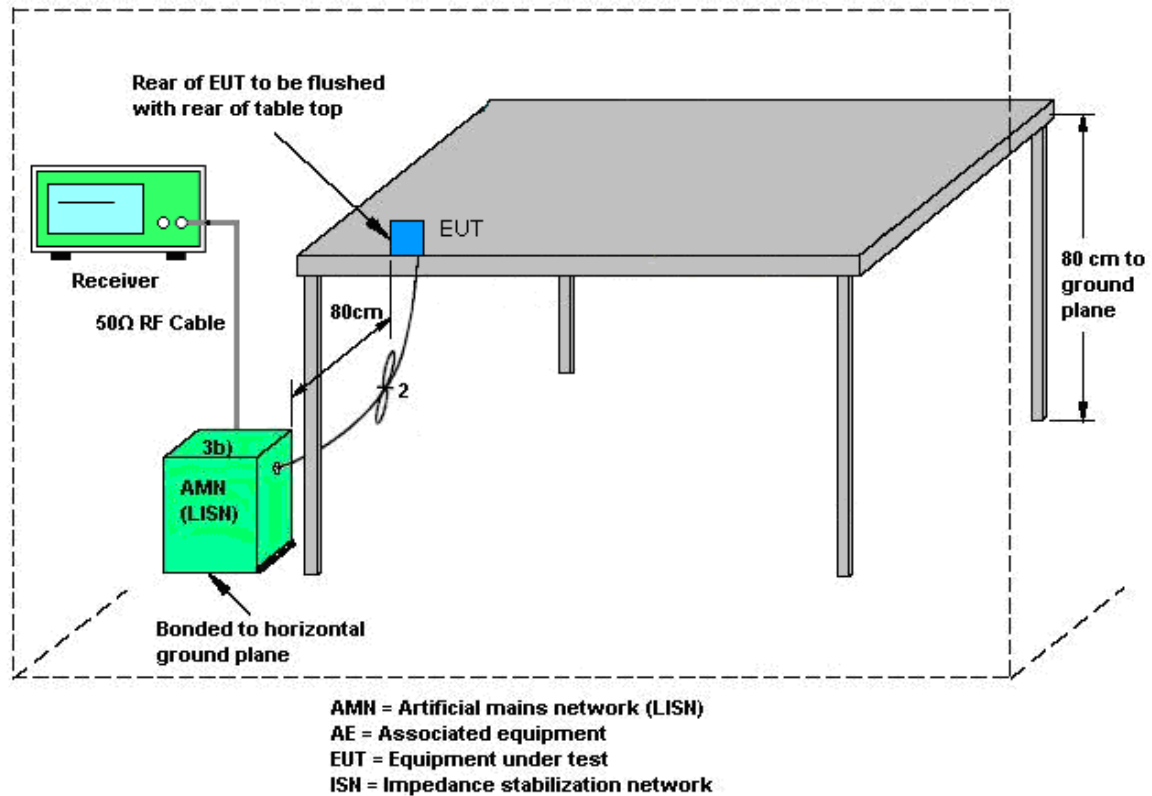
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

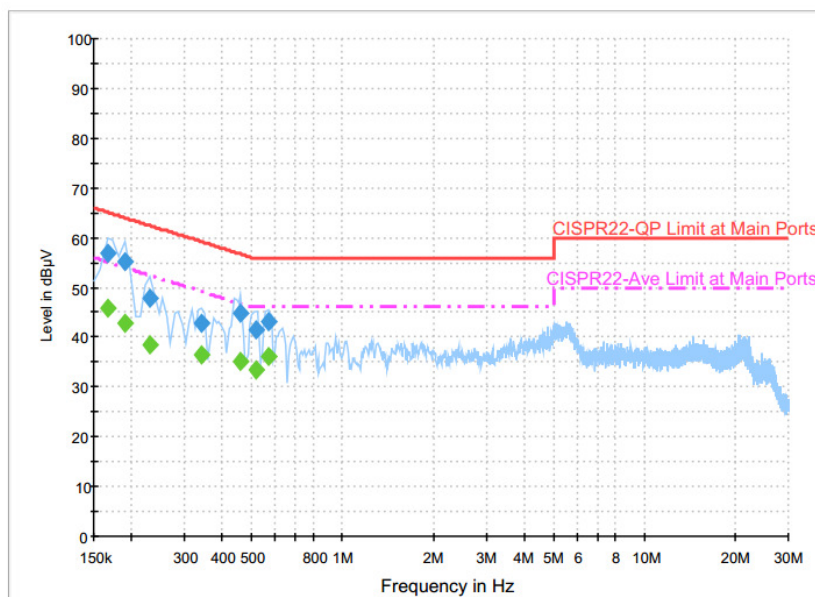
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other 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

Test Mode :	Mode 1	Temperature :	24~25℃
Test Engineer :	Kai-Chun Chu	Relative Humidity :	51~52%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	WLAN (2.4GHz) Link + Bluetooth Link + Camera (Rear) + USB HDD + Adapter + Micro SD + Micro USB Cable (Data Link with Notebook) + Battery + Earphone		



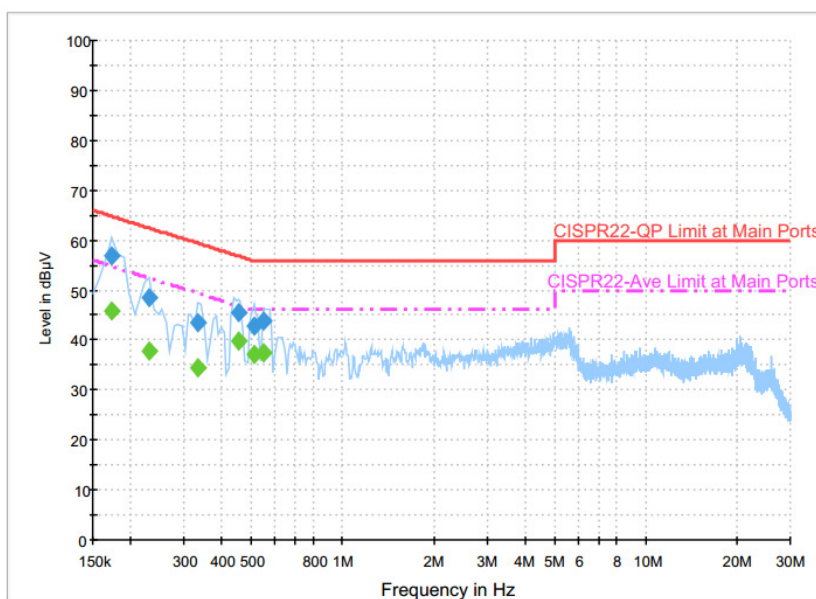
Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	56.9	Off	L1	19.6	8.3	65.2
0.190000	55.1	Off	L1	19.6	8.9	64.0
0.230000	48.0	Off	L1	19.6	14.4	62.4
0.342000	42.8	Off	L1	19.6	16.4	59.2
0.462000	44.7	Off	L1	19.6	12.0	56.7
0.518000	41.6	Off	L1	19.6	14.4	56.0
0.566000	43.1	Off	L1	19.6	12.9	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.166000	45.7	Off	L1	19.6	9.5	55.2
0.190000	42.8	Off	L1	19.6	11.2	54.0
0.230000	38.4	Off	L1	19.6	14.0	52.4
0.342000	36.5	Off	L1	19.6	12.7	49.2
0.462000	35.2	Off	L1	19.6	11.5	46.7
0.518000	33.6	Off	L1	19.6	12.4	46.0
0.566000	36.0	Off	L1	19.6	10.0	46.0

Test Mode :	Mode 1	Temperature :	24~25°C
Test Engineer :	Kai-Chun Chu	Relative Humidity :	51~52%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	WLAN (2.4GHz) Link + Bluetooth Link + Camera (Rear) + USB HDD + Adapter + Micro SD + Micro USB Cable (Data Link with Notebook) + Battery + Earphone		


Final Result : Quasi-Peak

Frequency (MHz)	Quasi-Peak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.174000	56.8	Off	N	19.6	8.0	64.8
0.230000	48.5	Off	N	19.6	13.9	62.4
0.334000	43.5	Off	N	19.6	15.9	59.4
0.454000	45.6	Off	N	19.6	11.2	56.8
0.510000	42.9	Off	N	19.6	13.1	56.0
0.550000	43.9	Off	N	19.6	12.1	56.0

Final Result : Average

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.174000	45.7	Off	N	19.6	9.1	54.8
0.230000	37.9	Off	N	19.6	14.5	52.4
0.334000	34.5	Off	N	19.6	14.9	49.4
0.454000	39.8	Off	N	19.6	7.0	46.8
0.510000	37.3	Off	N	19.6	8.7	46.0
0.550000	37.4	Off	N	19.6	8.6	46.0



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. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC 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	1132003	300MHz~40GHz	Aug. 12, 2015	Jan. 04, 2016 ~ Jan. 13, 2016	Aug. 11, 2016	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz	Sep. 17, 2015	Jan. 04, 2016 ~ Jan. 13, 2016	Sep. 16, 2016	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 23, 2015	Jan. 04, 2016 ~ Jan. 13, 2016	Nov. 22, 2016	Conducted (TH05-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Nov. 17, 2015	Jan. 05, 2016~ Jan. 13, 2016	Nov. 16, 2016	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	00075962	1GHz ~ 18GHz	Aug. 21, 2015	Jan. 05, 2016~ Jan. 13, 2016	Aug. 20, 2016	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 02, 2015	Jan. 05, 2016~ Jan. 13, 2016	Nov. 01, 2016	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Jan. 05, 2016~ Jan. 13, 2016	Sep. 01, 2016	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-00101 800-30-10P	1590075	1GHz ~ 18GHz	Apr. 20, 2015	Jan. 05, 2016~ Jan. 13, 2016	Apr. 19, 2016	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~ 26.5GHz	Oct. 19, 2015	Jan. 05, 2016~ Jan. 13, 2016	Oct. 18, 2016	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz-1000MHz	Mar. 12, 2015	Jan. 05, 2016~ Jan. 13, 2016	Mar. 11, 2016	Radiation (03CH07-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Mar. 03, 2015	Jan. 05, 2016~ Jan. 13, 2016	Mar. 02, 2016	Radiation (03CH07-HY)
Controller	ChainTek	Chaintek 3000	N/A	Control Turn table	N/A	Jan. 05, 2016~ Jan. 13, 2016	N/A	Radiation (03CH07-HY)
Controller	Max-Full	MF7802	MF780208368	Control Ant Mast	N/A	Jan. 05, 2016~ Jan. 13, 2016	N/A	Radiation (03CH07-HY)
Antenna Mast	Max-Full	MFA520BS	N/A	1m~4m	N/A	Jan. 05, 2016~ Jan. 13, 2016	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 degree	N/A	Jan. 05, 2016~ Jan. 13, 2016	N/A	Radiation (03CH07-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	20Hz ~ 8.4GHz	Nov. 04, 2015	Jan. 05, 2016~ Jan. 13, 2016	Nov. 03, 2016	Radiation (03CH07-HY)
Preamplifier	MITEQ	JS44-1800400 0-33-8P	1840917	18GHz ~ 40GHz	Jun. 02, 2015	Jan. 05, 2016~ Jan. 13, 2016	Jun. 01, 2016	Radiation (03CH07-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Jan. 19, 2016	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 26, 2015	Jan. 19, 2016	Aug. 25, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Dec. 02, 2015	Jan. 19, 2016	Dec. 01, 2016	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 14, 2015	Jan. 19, 2016	Dec. 13, 2016	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 08, 2016	Jan. 19, 2016	Jan. 07, 2017	Conduction (CO05-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% ($U = 2Uc(y)$)	4.80
---	------



Appendix A. Conducted Test Results

A1 - DTS Part

Test Engineer:	Luffy Lin	Temperature:	21~26	°C
Test Date:	2015/01/04~2015/01/13	Relative Humidity:	45~54	%

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
11b	1Mbps	1	1	2412	14.65	10.08	0.50	Pass
11b	1Mbps	1	6	2437	14.65	10.08	0.50	Pass
11b	1Mbps	1	11	2462	14.65	10.08	0.50	Pass
11g	6Mbps	1	1	2412	18.50	15.12	0.50	Pass
11g	6Mbps	1	6	2437	20.05	15.12	0.50	Pass
11g	6Mbps	1	11	2462	18.20	15.12	0.50	Pass
HT20	MCS0	1	1	2412	18.95	15.12	0.50	Pass
HT20	MCS0	1	6	2437	19.65	15.12	0.50	Pass
HT20	MCS0	1	11	2462	19.15	15.12	0.50	Pass
HT40	MCS0	1	3	2422	36.40	35.20	0.50	Pass
HT40	MCS0	1	6	2437	37.10	35.12	0.50	Pass
HT40	MCS0	1	9	2452	36.30	35.12	0.50	Pass

TEST RESULTS DATA
Peak Power Table

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
11b	1Mbps	1	1	2412	13.93	30.00	2.30	16.23	36.00	Pass
11b	1Mbps	1	6	2437	14.22	30.00	2.30	16.52	36.00	Pass
11b	1Mbps	1	11	2462	14.45	30.00	2.30	16.75	36.00	Pass
11g	6Mbps	1	1	2412	19.04	30.00	2.30	21.34	36.00	Pass
11g	6Mbps	1	6	2437	19.31	30.00	2.30	21.61	36.00	Pass
11g	6Mbps	1	11	2462	19.52	30.00	2.30	21.82	36.00	Pass
HT20	MCS0	1	1	2412	18.74	30.00	2.30	21.04	36.00	Pass
HT20	MCS0	1	6	2437	19.45	30.00	2.30	21.75	36.00	Pass
HT20	MCS0	1	11	2462	19.25	30.00	2.30	21.55	36.00	Pass
HT40	MCS0	1	3	2422	18.57	30.00	2.30	20.87	36.00	Pass
HT40	MCS0	1	6	2437	18.83	30.00	2.30	21.13	36.00	Pass
HT40	MCS0	1	9	2452	18.78	30.00	2.30	21.08	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

2.4GHz Band						
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
11b	1Mbps	1	1	2412	0.12	12.09
11b	1Mbps	1	6	2437	0.12	12.38
11b	1Mbps	1	11	2462	0.12	12.63
11g	6Mbps	1	1	2412	0.70	12.32
11g	6Mbps	1	6	2437	0.70	14.86
11g	6Mbps	1	11	2462	0.70	11.36
HT20	MCS0	1	1	2412	0.81	10.95
HT20	MCS0	1	6	2437	0.81	14.15
HT20	MCS0	1	11	2462	0.81	10.90
HT40	MCS0	1	3	2422	1.38	9.03
HT40	MCS0	1	6	2437	1.38	12.20
HT40	MCS0	1	9	2452	1.38	9.29

TEST RESULTS DATA
Peak Power Density

2.4GHz Band								
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-10.41	2.30	8.00	Pass
11b	1Mbps	1	6	2437	-10.35	2.30	8.00	Pass
11b	1Mbps	1	11	2462	-10.89	2.30	8.00	Pass
11g	6Mbps	1	1	2412	-12.28	2.30	8.00	Pass
11g	6Mbps	1	6	2437	-10.39	2.30	8.00	Pass
11g	6Mbps	1	11	2462	-13.93	2.30	8.00	Pass
HT20	MCS0	1	1	2412	-14.09	2.30	8.00	Pass
HT20	MCS0	1	6	2437	-10.85	2.30	8.00	Pass
HT20	MCS0	1	11	2462	-14.56	2.30	8.00	Pass
HT40	MCS0	1	3	2422	-18.72	2.30	8.00	Pass
HT40	MCS0	1	6	2437	-16.42	2.30	8.00	Pass
HT40	MCS0	1	9	2452	-18.81	2.30	8.00	Pass



Appendix B. Radiated Spurious Emission

Test Engineer :	Luke Chang, Jesse Wang, and James Chiu	Temperature :	20~21°C
		Relative Humidity :	59~62%

15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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		2388.39	56.52	-17.48	74	50.95	32.18	7.75	34.36	100	17	P	H
		2388.57	46.38	-7.62	54	40.81	32.18	7.75	34.36	100	17	A	H
	*	2410.688	105.55	-	-	99.92	32.2	7.75	34.32	100	17	P	H
	*	2410.855	103.02	-	-	97.39	32.2	7.75	34.32	100	17	A	H
													H
													H
		2364.63	55.91	-18.09	74	50.46	32.13	7.68	34.36	100	333	P	V
		2375.43	45.47	-8.53	54	39.99	32.16	7.68	34.36	100	333	A	V
	*	2413.527	96.7	-	-	91.07	32.2	7.75	34.32	100	333	P	V
	*	2413.36	94.16	-	-	88.53	32.2	7.75	34.32	100	333	A	V
													V
													V
802.11b CH 06 2437MHz		2373.18	55.93	-18.07	74	50.45	32.16	7.68	34.36	133	24	P	H
		2388.66	45.65	-8.35	54	40.08	32.18	7.75	34.36	133	24	A	H
	*	2437	104.59	-	-	98.79	32.24	7.83	34.27	133	24	P	H
	*	2437	102.04	-	-	96.24	32.24	7.83	34.27	133	24	A	H
		2488.64	56.26	-17.74	74	50.24	32.3	7.91	34.19	133	24	P	H
		2489.56	46.17	-7.83	54	40.15	32.3	7.91	34.19	133	24	A	H
		2354.1	55.56	-18.44	74	50.15	32.13	7.68	34.4	112	333	P	V
		2363.64	45.42	-8.58	54	40.01	32.13	7.68	34.4	112	333	A	V
	*	2438.326	97.36	-	-	91.56	32.24	7.83	34.27	112	333	P	V
	*	2438.41	94.87	-	-	89.07	32.24	7.83	34.27	112	333	A	V
		2483.52	56.92	-17.08	74	50.92	32.28	7.91	34.19	112	333	P	V
		2492.16	45.96	-8.04	54	39.9	32.3	7.91	34.15	112	333	A	V



802.11b CH 11 2462MHz	*	2460.705	105.83	-	-	99.89	32.26	7.91	34.23	113	18	P	H
	*	2460.872	103.31	-	-	97.37	32.26	7.91	34.23	113	18	A	H
		2495.36	56.62	-17.38	74	50.56	32.3	7.91	34.15	113	18	P	H
		2487.16	47.27	-6.73	54	41.27	32.28	7.91	34.19	113	18	A	H
													H
													H
	*	2463.46	98.72	-	-	92.78	32.26	7.91	34.23	107	333	P	V
	*	2463.376	96.2	-	-	90.26	32.26	7.91	34.23	107	333	A	V
		2493.16	56.81	-17.19	74	50.75	32.3	7.91	34.15	107	333	P	V
		2487.52	46.47	-7.53	54	40.45	32.3	7.91	34.19	107	333	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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		4824	55.03	-18.97	74	69.25	34.26	11.16	59.64	100	134	P	H
		4824	53.74	-0.26	54	67.96	34.26	11.16	59.64	100	134	A	H
													H
													H
		4824	54.64	-19.36	74	68.86	34.26	11.16	59.64	243	200	P	V
		4824	53.01	-0.99	54	67.23	34.26	11.16	59.64	243	200	A	V
													V
													V
802.11b CH 06 2437MHz		4874	53.12	-20.88	74	67.18	34.3	11.21	59.57	103	145	P	H
		4874	52.16	-1.84	54	66.22	34.3	11.21	59.57	103	145	A	H
		7311	42.72	-31.28	74	50.51	35.6	15.08	58.47	100	0	P	H
													H
		4872	54.67	-19.33	74	68.73	34.3	11.21	59.57	354	2	P	V
		4872	52.54	-1.46	54	66.6	34.3	11.21	59.57	354	2	A	V
		7311	43.01	-30.99	74	50.8	35.6	15.08	58.47	100	0	P	V
													V
802.11b CH 11 2462MHz		4926	54.92	-19.08	74	68.81	34.34	11.27	59.5	100	84	P	H
		4926	53.16	-0.84	54	67.05	34.34	11.27	59.5	100	84	A	H
		7386	42.24	-31.76	74	50.08	35.6	15.14	58.58	100	0	P	H
													H
		4926	49.52	-24.48	74	63.41	34.34	11.27	59.5	100	0	P	V
		7386	41.72	-32.28	74	49.56	35.6	15.14	58.58	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
802.11g CH 01 2412MHz		2388.21	67.16	-6.84	74	61.59	32.18	7.75	34.36	101	18	P	H
		2390	52.56	-1.44	54	46.95	32.18	7.75	34.32	101	18	A	H
	*	2410.855	108.1	-	-	102.47	32.2	7.75	34.32	101	18	P	H
	*	2410.271	100.69	-	-	95.06	32.2	7.75	34.32	101	18	A	H
													H
													H
		2389.47	68.55	-5.45	74	62.98	32.18	7.75	34.36	123	110	P	V
		2389.92	52.44	-1.56	54	46.83	32.18	7.75	34.32	123	110	A	V
	*	2409.937	104.32	-	-	98.69	32.2	7.75	34.32	123	110	P	V
	*	2410.438	96.25	-	-	90.62	32.2	7.75	34.32	123	110	A	V
													V
													V
802.11g CH 06 2437MHz		2386.95	58.79	-15.21	74	53.22	32.18	7.75	34.36	101	52	P	H
		2389.11	47.29	-6.71	54	41.72	32.18	7.75	34.36	101	52	A	H
	*	2438.493	110.34	-	-	104.54	32.24	7.83	34.27	101	52	P	H
	*	2438.493	102.92	-	-	97.12	32.24	7.83	34.27	101	52	A	H
		2490.8	56.93	-17.07	74	50.91	32.3	7.91	34.19	101	52	P	H
		2484.84	47.16	-6.84	54	41.16	32.28	7.91	34.19	101	52	A	H
		2389.47	56.16	-17.84	74	50.59	32.18	7.75	34.36	100	97	P	V
		2388.39	46.34	-7.66	54	40.77	32.18	7.75	34.36	100	97	A	V
	*	2439	105.73	-	-	99.93	32.24	7.83	34.27	100	97	P	V
	*	2438.493	98.16	-	-	92.36	32.24	7.83	34.27	100	97	A	V
		2487.24	56.94	-17.06	74	50.94	32.28	7.91	34.19	100	97	P	V
		2485.16	46.7	-7.3	54	40.7	32.28	7.91	34.19	100	97	A	V



802.11g CH 11 2462MHz	*	2462	109.93	-	-	103.99	32.26	7.91	34.23	134	23	P	H
	*	2462	102.05	-	-	96.11	32.26	7.91	34.23	134	23	A	H
		2483.8	69.91	-4.09	74	63.91	32.28	7.91	34.19	134	23	P	H
		2483.68	53.28	-0.72	54	47.28	32.28	7.91	34.19	134	23	A	H
													H
													H
	*	2462	102.61	-	-	96.67	32.26	7.91	34.23	100	289	P	V
	*	2462	94.76	-	-	88.82	32.26	7.91	34.23	100	289	A	V
		2483.8	64.08	-9.92	74	58.08	32.28	7.91	34.19	100	289	P	V
		2483.68	48.9	-5.1	54	42.9	32.28	7.91	34.19	100	289	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
802.11g CH 01 2412MHz		4824	51.24	-22.76	74	65.46	34.26	11.16	59.64	100	83	P	H
		4824	45.98	-8.02	54	60.2	34.26	11.16	59.64	100	83	A	H
													H
													H
		4824	50.35	-23.65	74	64.57	34.26	11.16	59.64	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4872	51.35	-22.65	74	65.41	34.3	11.21	59.57	100	84	P	H
		4872	45.38	-8.62	54	59.44	34.3	11.21	59.57	100	84	A	H
		7308	41.16	-32.84	74	48.95	35.6	15.08	58.47	100	0	P	H
													H
		4872	50.95	-23.05	74	65.01	34.3	11.21	59.57	100	0	P	V
		7308	41.27	-32.73	74	49.06	35.6	15.08	58.47	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4926	50.84	-23.16	74	64.73	34.34	11.27	59.5	100	0	P	H
		7386	41	-33	74	48.84	35.6	15.14	58.58	100	0	P	H
													H
													H
		4926	47.17	-26.83	74	61.06	34.34	11.27	59.5	100	0	P	V
		7386	42	-32	74	49.84	35.6	15.14	58.58	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
802.11n HT20 CH 01 2412MHz		2389.2	66.93	-7.07	74	61.36	32.18	7.75	34.36	102	21	P	H
		2389.74	53.47	-0.53	54	47.9	32.18	7.75	34.36	102	21	A	H
	*	2412	108.96	-	-	103.33	32.2	7.75	34.32	102	21	P	H
	*	2412	101.24	-	-	95.61	32.2	7.75	34.32	102	21	A	H
													H
													H
		2390	59.11	-14.89	74	53.5	32.18	7.75	34.32	119	112	P	V
		2390	47.5	-6.5	54	41.89	32.18	7.75	34.32	119	112	A	V
	*	2412	100.28	-	-	94.65	32.2	7.75	34.32	119	112	P	V
	*	2412	92.42	-	-	86.79	32.2	7.75	34.32	119	112	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2389.11	58	-16	74	52.43	32.18	7.75	34.36	140	23	P	H
		2389.83	47.89	-6.11	54	42.28	32.18	7.75	34.32	140	23	A	H
	*	2437	111.87	-	-	106.07	32.24	7.83	34.27	140	23	P	H
	*	2437	104.2	-	-	98.4	32.24	7.83	34.27	140	23	A	H
		2483.76	58.77	-15.23	74	52.77	32.28	7.91	34.19	140	23	P	H
		2483.92	47.61	-6.39	54	41.61	32.28	7.91	34.19	140	23	A	H
		2340.78	56.86	-17.14	74	51.47	32.11	7.68	34.4	123	111	P	V
		2388.03	46.25	-7.75	54	40.68	32.18	7.75	34.36	123	111	A	V
	*	2437	103.79	-	-	97.99	32.24	7.83	34.27	123	111	P	V
	*	2437	96.43	-	-	90.63	32.24	7.83	34.27	123	111	A	V
		2489.52	56.24	-17.76	74	50.22	32.3	7.91	34.19	123	111	P	V
		2489.52	46.76	-7.24	54	40.74	32.3	7.91	34.19	123	111	A	V



802.11n HT20 CH 11 2462MHz	*	2461.289	109.02	-	-	103.08	32.26	7.91	34.23	135	23	P	H
	*	2463.627	100.97	-	-	95.03	32.26	7.91	34.23	135	23	A	H
		2483.72	66.64	-7.36	74	60.64	32.28	7.91	34.19	135	23	P	H
		2483.88	52.98	-1.02	54	46.98	32.28	7.91	34.19	135	23	A	H
													H
													H
	*	2462.375	100.92	-	-	94.98	32.26	7.91	34.23	148	112	P	V
	*	2460.705	93.52	-	-	87.58	32.26	7.91	34.23	148	112	A	V
		2483.88	58.17	-15.83	74	52.17	32.28	7.91	34.19	148	112	P	V
		2483.52	47.39	-6.61	54	41.39	32.28	7.91	34.19	148	112	A	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
802.11n HT20 CH 01 2412MHz		4824	49.7	-24.3	74	63.92	34.26	11.16	59.64	100	0	P	H
													H
													H
													H
		4830	49.92	-24.08	74	64.14	34.26	11.16	59.64	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4872	51.44	-22.56	74	65.5	34.3	11.21	59.57	100	140	P	H
		4872	45.49	-8.51	54	59.55	34.3	11.21	59.57	100	140	A	H
		7311	41.37	-32.63	74	49.16	35.6	15.08	58.47	100	0	P	H
													H
		4872	50.19	-23.81	74	64.25	34.3	11.21	59.57	100	0	P	V
		7308	41.44	-32.56	74	49.23	35.6	15.08	58.47	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4926	47.97	-26.03	74	61.86	34.34	11.27	59.5	100	0	P	H
		7386	41.7	-32.3	74	49.54	35.6	15.14	58.58	100	0	P	H
													H
													H
		4926	45.31	-28.69	74	59.2	34.34	11.27	59.5	100	0	P	V
		7386	41.7	-32.3	74	49.54	35.6	15.14	58.58	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
802.11n HT40 CH 03 2422MHz		2384.43	67.71	-6.29	74	62.16	32.16	7.75	34.36	100	316	P	H
		2390	52.76	-1.24	54	47.15	32.18	7.75	34.32	100	316	A	H
	*	2422	103.32	-	-	97.54	32.22	7.83	34.27	100	316	P	H
	*	2422	95.08	-	-	89.3	32.22	7.83	34.27	100	316	A	H
		2490.64	56.18	-17.82	74	50.16	32.3	7.91	34.19	100	316	P	H
		2485.72	47.64	-6.36	54	41.64	32.28	7.91	34.19	100	316	A	H
		2387.49	59.71	-14.29	74	54.14	32.18	7.75	34.36	100	332	P	V
		2388.84	47.91	-6.09	54	42.34	32.18	7.75	34.36	100	332	A	V
	*	2422	96.56	-	-	90.78	32.22	7.83	34.27	100	332	P	V
	*	2422	89.47	-	-	83.69	32.22	7.83	34.27	100	332	A	V
		2487.76	56.75	-17.25	74	50.73	32.3	7.91	34.19	100	332	P	V
		2484.72	47.19	-6.81	54	41.19	32.28	7.91	34.19	100	332	A	V
802.11n HT40 CH 06 2437MHz		2387.4	65.81	-8.19	74	60.24	32.18	7.75	34.36	101	317	P	H
		2389.38	52.87	-1.13	54	47.3	32.18	7.75	34.36	101	317	A	H
	*	2437	105.89	-	-	100.09	32.24	7.83	34.27	101	317	P	H
	*	2437	98.74	-	-	92.94	32.24	7.83	34.27	101	317	A	H
		2484.16	66.16	-7.84	74	60.16	32.28	7.91	34.19	101	317	P	H
		2483.56	53.53	-0.47	54	47.53	32.28	7.91	34.19	101	317	A	H
		2389.83	61.81	-12.19	74	56.2	32.18	7.75	34.32	101	261	P	V
		2389.65	48.55	-5.45	54	42.98	32.18	7.75	34.36	101	261	A	V
	*	2437	99.82	-	-	94.02	32.24	7.83	34.27	101	261	P	V
	*	2437	92.46	-	-	86.66	32.24	7.83	34.27	101	261	A	V
		2493.68	57.83	-16.17	74	51.77	32.3	7.91	34.15	101	261	P	V
		2483.64	47.87	-6.13	54	41.87	32.28	7.91	34.19	101	261	A	V



802.11n HT40 CH 09 2452MHz		2388.66	56.08	-17.92	74	50.51	32.18	7.75	34.36	110	19	P	H
		2345.82	46.74	-7.26	54	41.35	32.11	7.68	34.4	110	19	A	H
	*	2452	103.2	-	-	97.36	32.24	7.83	34.23	110	19	P	H
	*	2452	95.53	-	-	89.69	32.24	7.83	34.23	110	19	A	H
		2488.72	66.07	-7.93	74	60.05	32.3	7.91	34.19	110	19	P	H
		2484.24	53.15	-0.85	54	47.15	32.28	7.91	34.19	110	19	A	H
		2336.1	55.56	-18.44	74	50.29	32.11	7.6	34.44	342	150	P	V
		2379.48	46.76	-7.24	54	41.28	32.16	7.68	34.36	342	150	A	V
	*	2447.177	98.66	-	-	92.82	32.24	7.83	34.23	342	150	P	V
	*	2448.764	91.14	-	-	85.3	32.24	7.83	34.23	342	150	A	V
		2488.16	62.57	-11.43	74	56.55	32.3	7.91	34.19	342	150	P	V
		2484.64	49.05	-4.95	54	43.05	32.28	7.91	34.19	342	150	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



15C 2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	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)
802.11n HT40 CH 03 2422MHz		4842	46.51	-27.49	74	60.69	34.28	11.16	59.62	100	0	P	H
		7266	41.81	-32.19	74	49.58	35.6	15.06	58.43	100	0	P	H
													H
													H
		4842	45.3	-28.7	74	59.48	34.28	11.16	59.62	100	0	P	V
		7266	42.49	-31.51	74	50.26	35.6	15.06	58.43	100	0	P	V
													V
													V
802.11n HT40 CH 06 2437MHz		4872	47.41	-26.59	74	61.47	34.3	11.21	59.57	100	0	P	H
		7308	41.7	-32.3	74	49.49	35.6	15.08	58.47	100	0	P	H
													H
													H
		4872	46.3	-27.7	74	60.36	34.3	11.21	59.57	100	0	P	V
		7308	42.19	-31.81	74	49.98	35.6	15.08	58.47	100	0	P	V
													V
													V
802.11n HT40 CH 09 2452MHz		4902	45.96	-28.04	74	59.88	34.33	11.27	59.52	100	0	P	H
		7356	40.75	-33.25	74	48.57	35.6	15.11	58.53	100	0	P	H
													H
													H
		4902	43.95	-30.05	74	57.87	34.33	11.27	59.52	100	0	P	V
		7356	41.45	-32.55	74	49.27	35.6	15.11	58.53	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

15C Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

[illegible]



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency per 15.209(c).
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical

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

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable 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) + Cable 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”.

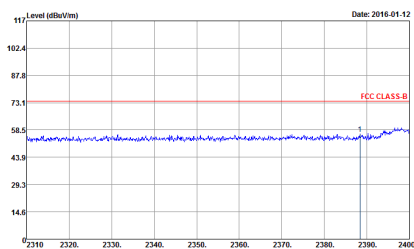
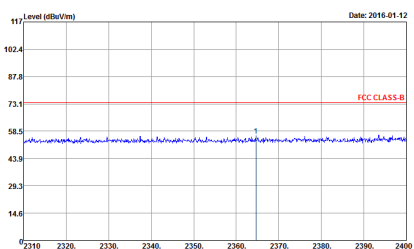


Appendix C. Radiated Spurious Emission Plots

Test Engineer :	Luke Chang, Jesse Wang, and James Chiu	Temperature :	20~21°C
		Relative Humidity :	59~62%

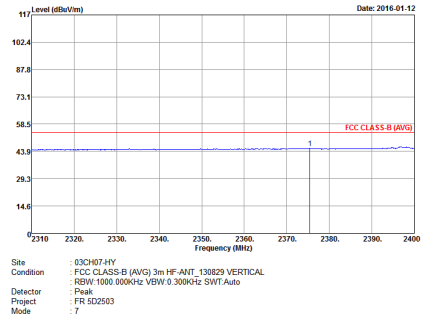
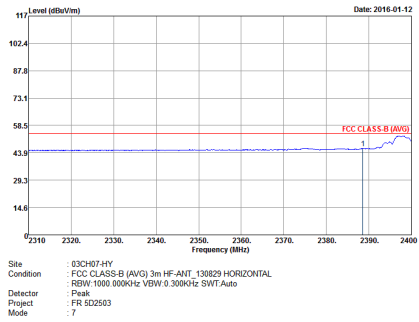
2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : FR 5D2503 Mode : 7	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL Detector : Peak Project : FR 5D2503 Mode : 7



Avg.





WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT, 130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SVT: Auto Detector : Peak Project : FR 5D2503 Mode : 0	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT, 130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SVT: Auto Detector : Peak Project : FR 5D2503 Mode : 0
Avg.	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 HORIZONTAL RBW: 1000.000kHz VBW: 0.300kHz SVT: Auto Detector : Peak Project : FR 5D2503 Mode : 0	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 VERTICAL RBW: 1000.000kHz VBW: 0.300kHz SVT: Auto Detector : Peak Project : FR 5D2503 Mode : 0



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : FR 5D2503 Mode : 0	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL Detector : Peak Project : FR 5D2503 Mode : 0
Avg.	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : FR 5D2503 Mode : 0	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL Detector : Peak Project : FR 5D2503 Mode : 0



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 9	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 9
Avg.	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:0.300kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 9	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:0.300kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 9

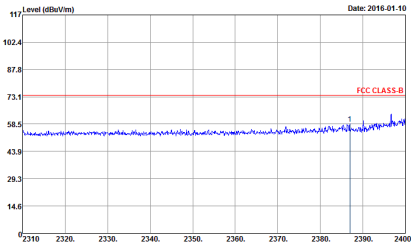
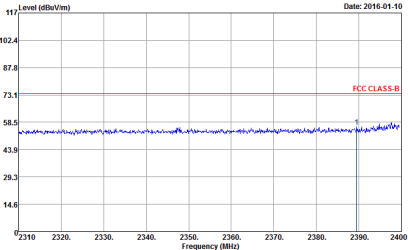
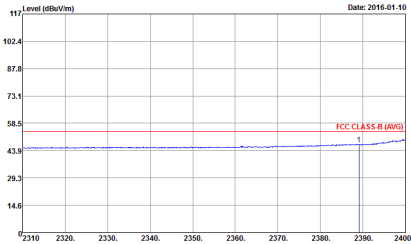
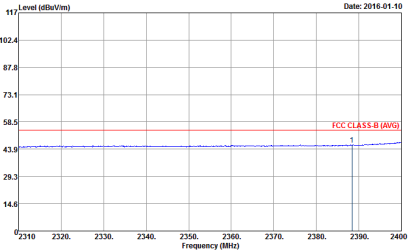


2.4GHz 2400~2483.5MHz

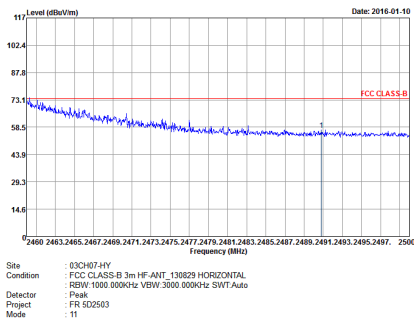
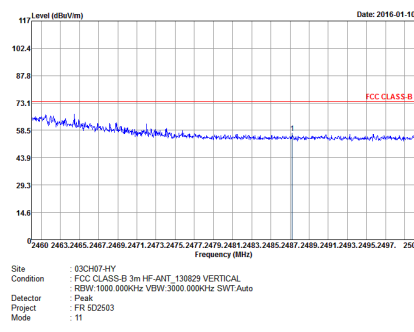
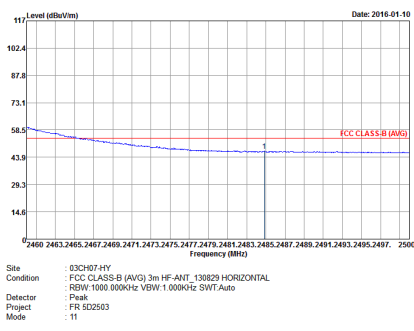
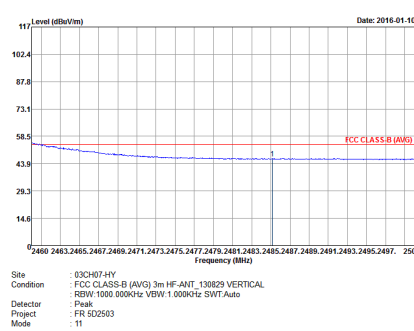
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak		
Avg.		

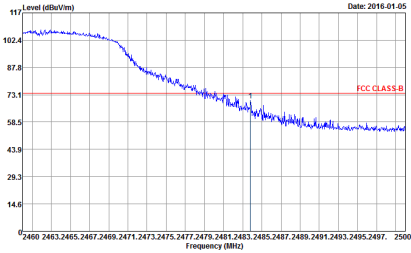
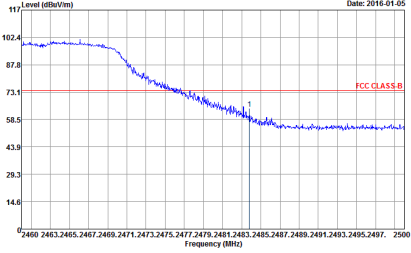
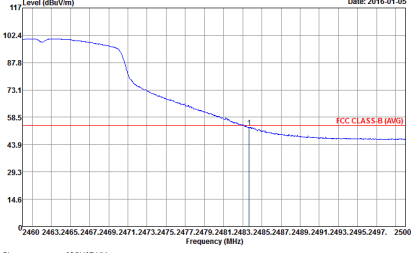
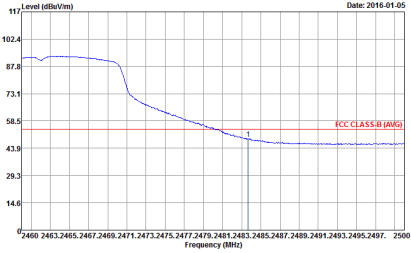


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Vertical
Peak	 Level (dBuV/m) vs Frequency (MHz) for Horizontal Peak. The plot shows a blue signal line fluctuating around 58.5 dBuV/m, with a red horizontal line at 73.1 dBuV/m labeled 'FCC CLASS-B'. A peak is marked at 2390 MHz. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 11	 Level (dBuV/m) vs Frequency (MHz) for Vertical Peak. The plot shows a blue signal line fluctuating around 58.5 dBuV/m, with a red horizontal line at 73.1 dBuV/m labeled 'FCC CLASS-B'. A peak is marked at 2390 MHz. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 11
Avg.	 Level (dBuV/m) vs Frequency (MHz) for Horizontal Average. The plot shows a blue signal line fluctuating around 43.9 dBuV/m, with a red horizontal line at 58.5 dBuV/m labeled 'FCC CLASS-B (AVG)'. A peak is marked at 2390 MHz. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 11	 Level (dBuV/m) vs Frequency (MHz) for Vertical Average. The plot shows a blue signal line fluctuating around 43.9 dBuV/m, with a red horizontal line at 58.5 dBuV/m labeled 'FCC CLASS-B (AVG)'. A peak is marked at 2390 MHz. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 11



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT, 130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 11	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT, 130829 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 11
Avg.	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 11	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : FR 5D2503 Mode : 11

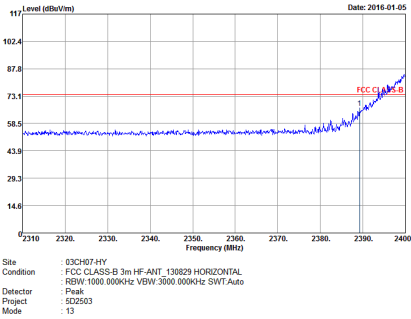
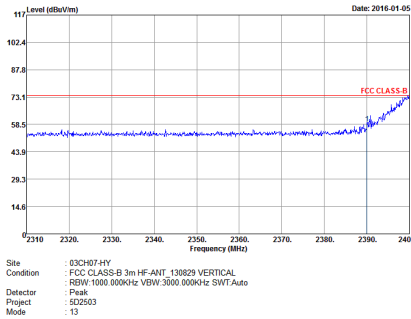
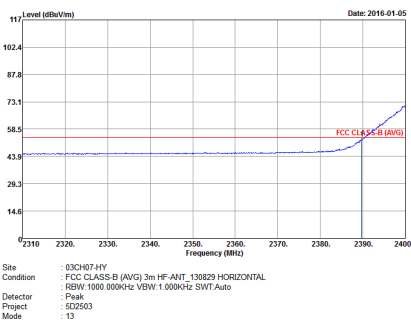
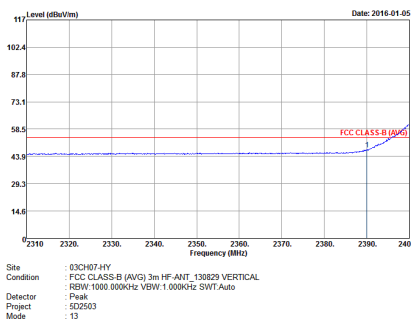


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 12	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 12
Avg.	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 12	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 12

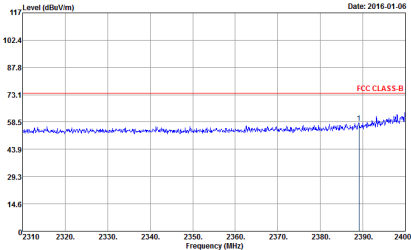
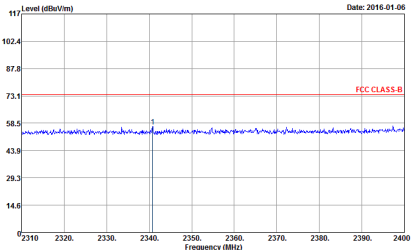
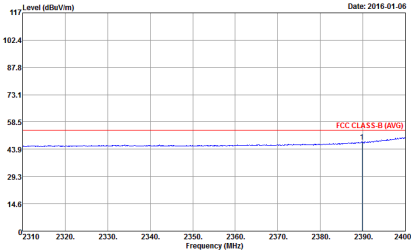
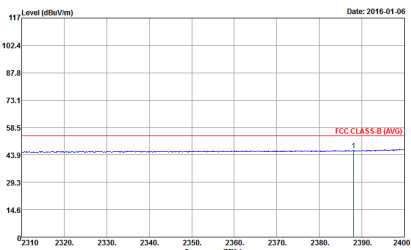


2.4GHz 2400~2483.5MHz

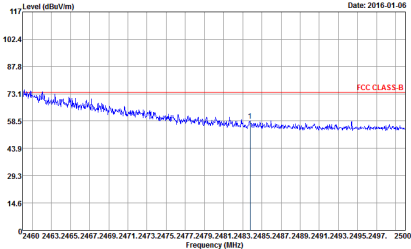
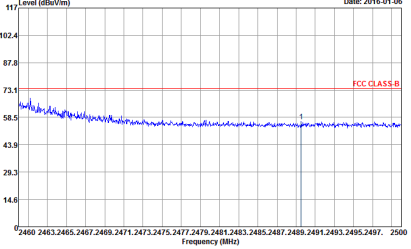
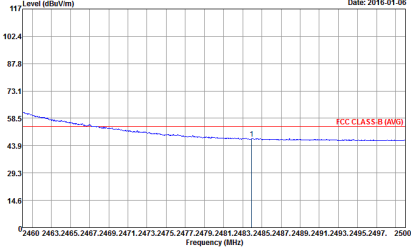
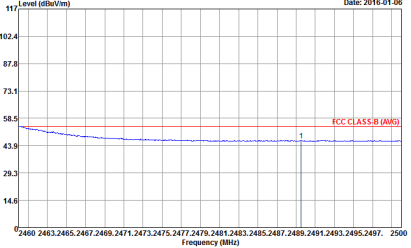
WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak	 Site : 03CH07-11Y Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000kHz VSW:3000.000kHz SWT:Auto Project : SD2503 Mode : 13	 Site : 03CH07-11Y Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000kHz VSW:3000.000kHz SWT:Auto Project : SD2503 Mode : 13
Avg.	 Site : 03CH07-11Y Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL Detector : RBW:1000.000kHz VSW:1.000kHz SWT:Auto Project : SD2503 Mode : 13	 Site : 03CH07-11Y Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL Detector : RBW:1000.000kHz VSW:1.000kHz SWT:Auto Project : SD2503 Mode : 13



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 502503 Mode : 14	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 502503 Mode : 14
Avg.	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto Detector : Peak Project : 502503 Mode : 14	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 1.000kHz SWT: Auto Detector : Peak Project : 502503 Mode : 14



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Vertical
Peak	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT, 130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 14	 Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT, 130829 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 14
Avg.	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 HORIZONTAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 14	 Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT, 130829 VERTICAL RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 14



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak	Site : 03CH07-4Y Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 5D2503 Mode : 15	Site : 03CH07-4Y Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 5D2503 Mode : 15
Avg.	Site : 03CH07-4Y Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 5D2503 Mode : 15	Site : 03CH07-4Y Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 5D2503 Mode : 15



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT 130829 HORIZONTAL Detector : Peak Project : 5D2503 Mode : 16	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT 130829 VERTICAL Detector : Peak Project : 5D2503 Mode : 16
Avg.	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT 130829 HORIZONTAL Detector : Peak Project : 5D2503 Mode : 16	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT 130829 VERTICAL Detector : Peak Project : 5D2503 Mode : 16



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Vertical
Peak	Horizontal Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) for 802.11n HT40 CH03 2422MHz - R. The plot shows a peak at 2422 MHz. The Y-axis ranges from 14.6 to 117 dBuV/m, and the X-axis ranges from 2460 to 2500 MHz. The plot is dated 2016-01-12. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 16	Vertical Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) for 802.11n HT40 CH03 2422MHz - R. The plot shows a peak at 2422 MHz. The Y-axis ranges from 14.6 to 117 dBuV/m, and the X-axis ranges from 2460 to 2500 MHz. The plot is dated 2016-01-12. Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 16
Avg.	Horizontal Avg. Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) for 802.11n HT40 CH03 2422MHz - R. The plot shows a peak at 2422 MHz. The Y-axis ranges from 14.6 to 117 dBuV/m, and the X-axis ranges from 2460 to 2500 MHz. The plot is dated 2016-01-12. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 16	Vertical Avg. Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz) for 802.11n HT40 CH03 2422MHz - R. The plot shows a peak at 2422 MHz. The Y-axis ranges from 14.6 to 117 dBuV/m, and the X-axis ranges from 2460 to 2500 MHz. The plot is dated 2016-01-12. Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 16



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 5D2503 Mode : 17	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 5D2503 Mode : 17
Avg.	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL Detector : Peak Project : 5D2503 Mode : 17	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL Detector : Peak Project : 5D2503 Mode : 17



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Vertical
Peak	Site : 03CH07.HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 0D2503 Mode : 17	Site : 03CH07.HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 0D2503 Mode : 17
Avg.	Site : 03CH07.HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 0D2503 Mode : 17	Site : 03CH07.HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 0D2503 Mode : 17



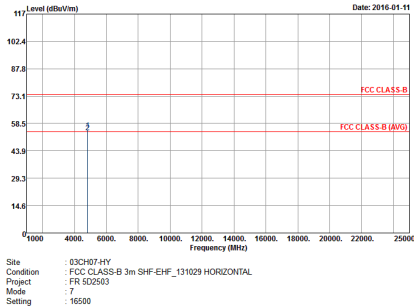
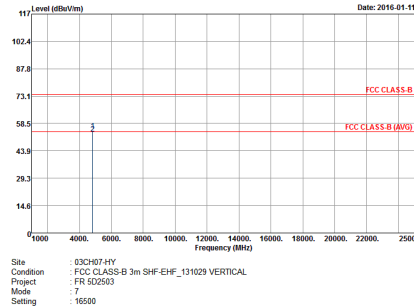
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 18	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 18
Avg.	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 18	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW:1000.000kHz VBW:3.000kHz SWT:Auto Detector : Peak Project : 5D2503 Mode : 18



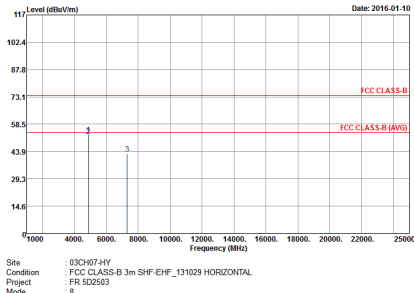
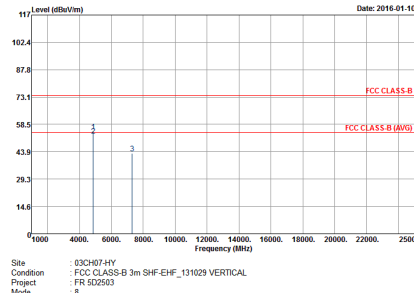
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Vertical
Peak	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 020503 Mode : 18	Site : 03CH07-HY Condition : FCC CLASS-B 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 3000.000kHz SWT: Auto Detector : Peak Project : 020503 Mode : 18
Avg.	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 HORIZONTAL RBW: 1000.000kHz VBW: 3.000kHz SWT: Auto Detector : Peak Project : 020503 Mode : 18	Site : 03CH07-HY Condition : FCC CLASS-B (AVG) 3m HF-ANT_130829 VERTICAL RBW: 1000.000kHz VBW: 3.000kHz SWT: Auto Detector : Peak Project : 020503 Mode : 18



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.	 Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Project : FR 5D2503 Mode : 7 Setting : 16500	 Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Project : FR 5D2503 Mode : 7 Setting : 16500



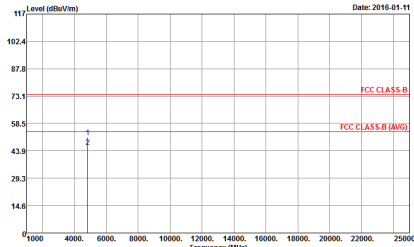
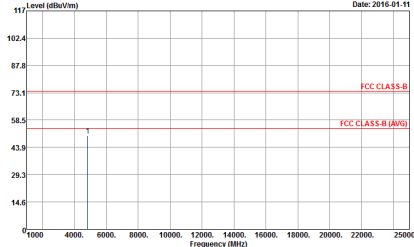
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH074HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Project : FR 5D2503 Mode : 8	 Site : 03CH074HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Project : FR 5D2503 Mode : 8



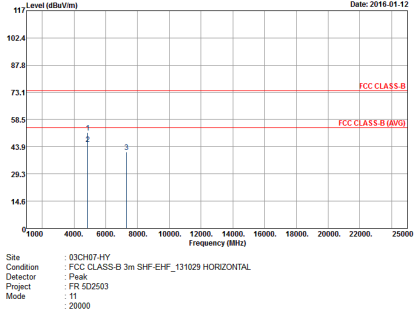
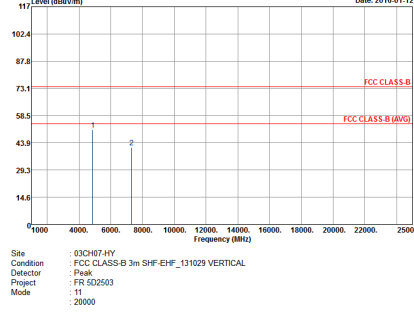
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 63CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Project : FR 5D2503 Mode : 9 16500	Site : 63CH07-HY Condition : FCC CLASS-B 3m HORN_9170_40G_0584 VERTICAL Project : FR 5D2503 Mode : 9 16500



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.	 Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : FR 5D2503 Mode : 10 : 17000	 Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : FR 5D2503 Mode : 10 : 17000



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : FR 5D2503 Mode : 11 20000	 Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : FR 5D2503 Mode : 11 20000

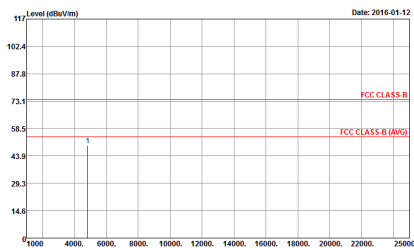
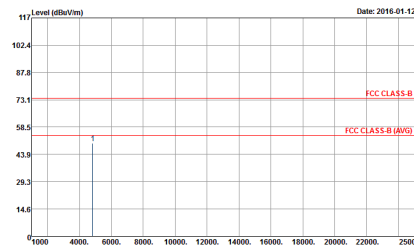


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : FR 5D2503 Mode : 12 Setting : 15500	Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : FR 5D2503 Mode : 12 Setting : 15500



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : FR 5D2503 Mode : 13 15500	 Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : FR 5D2503 Mode : 13 15500



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : FR-5D2503 Mode : 14 Setting : 20000	Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : FR-5D2503 Mode : 14 Setting : 20000



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH074HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 502503 Mode : 15	Site : 03CH074HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 502503 Mode : 15



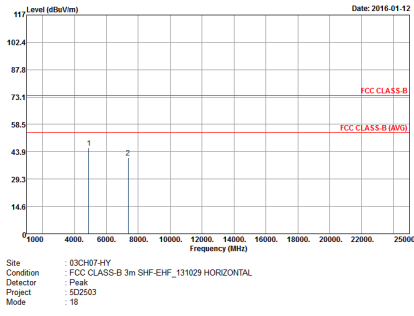
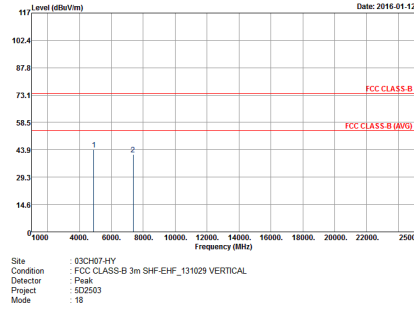
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 522503 Mode : 16	Site : 03CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 522503 Mode : 16

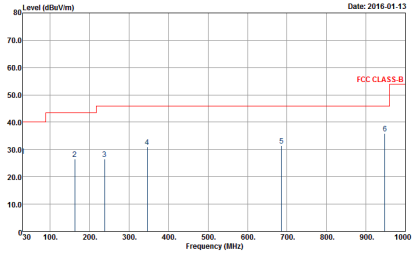
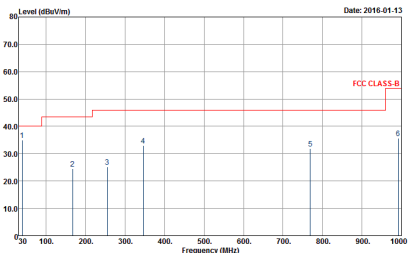


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Horizontal Peak and Average graphs showing Level (dBuV/m) vs Frequency (MHz). The graphs include FCC CLASS-B and FCC CLASS-B (AVG) limits. Two peaks are labeled 1 and 2. Site : 63CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 602503 Mode : 17	Vertical Peak and Average graphs showing Level (dBuV/m) vs Frequency (MHz). The graphs include FCC CLASS-B and FCC CLASS-B (AVG) limits. Two peaks are labeled 1 and 2. Site : 63CH07-HY Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 602503 Mode : 17



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH07-11Y Condition : FCC CLASS-B 3m SHF-EHF_131029 HORIZONTAL Detector : Peak Project : 502503 Mode : 18	 Site : 03CH07-11Y Condition : FCC CLASS-B 3m SHF-EHF_131029 VERTICAL Detector : Peak Project : 502503 Mode : 18

2.4GHz 2400~2483.5MHz
2.4GHz 2400~2483.5MHz
Emission below 1GHz
2.4GHz WIFI 802.11n HT40 (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : FCC CLASS-B 3m LF_ANT_35414(S) HORIZONTAL Detector : Peak Project : 5D2503 Mode : 21	 Site : 03CH07-HY Condition : FCC CLASS-B 3m LF_ANT_35414(S) VERTICAL Detector : Peak Project : 5D2503 Mode : 21