



NCC RF Test Report

APPLICANT : 神基科技股份有限公司
EQUIPMENT : Wireless module
BRAND NAME : Getac
MODEL NAME : WLE200NX
MARKETING NAME : WLE200NX
STANDARD : NCC LP0002 (2016-08-23)

The product was received on May 23, 2017 and testing was completed on Aug. 31, 2017. 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.

No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
TR752305A	Rev. 01	Initial issue of report	Sep. 04, 2017

SUMMARY OF TEST RESULT

Report Section	NCC Rule	Description	Limit	Result	Remark
3.1	LP0002 3.10.1.6(2)(A)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Pass	-
3.2	LP0002 3.10.1.2(1)(C)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	LP0002 3.10.1.6(2)(B)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	LP0002 3.10.1.5	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	LP0002 3.10.1.5	Radiated Band Edges and Radiated Spurious Emission	LP0002 3.10.1.5	Pass	Under limit 0.80 dB at 2483.500 MHz
3.6	LP0002 2.11	Receiver Radiated Emission	LP0002 2.8	Pass	Under limit 3.32 dB at 378.400 MHz
3.7	LP0002 2.3	AC Conducted Emission	LP0002 2.3	Pass	Under limit 14.70 dB at 0.574 MHz
3.8	LP0002 2.2 3.10.1.3 3.10.1.4	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

神基科技股份有限公司

新竹科學工業園區新竹縣寶山鄉研發二路 1 號 4 樓

1.2 Product Feature of Equipment Under Test

Wi-Fi 2.4GHz 802.11b/g/n and Wi-Fi 5GHz 802.11a/n

Product Specification subjective to this standard	
Installed into Notebook	Brand Name: Getac Model Name: B300G5
Antenna Type	WLAN: PIFA Antenna

1.3 Modification of EUT

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

1.4 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW0007 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

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	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	
Test Site No.	Sporton Site No.	
	03CH10-HY	

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

1.5 Applicable Standards

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

- ♦ NCC LP0002 (2016-08-23)
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- ♦ ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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).
- 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		

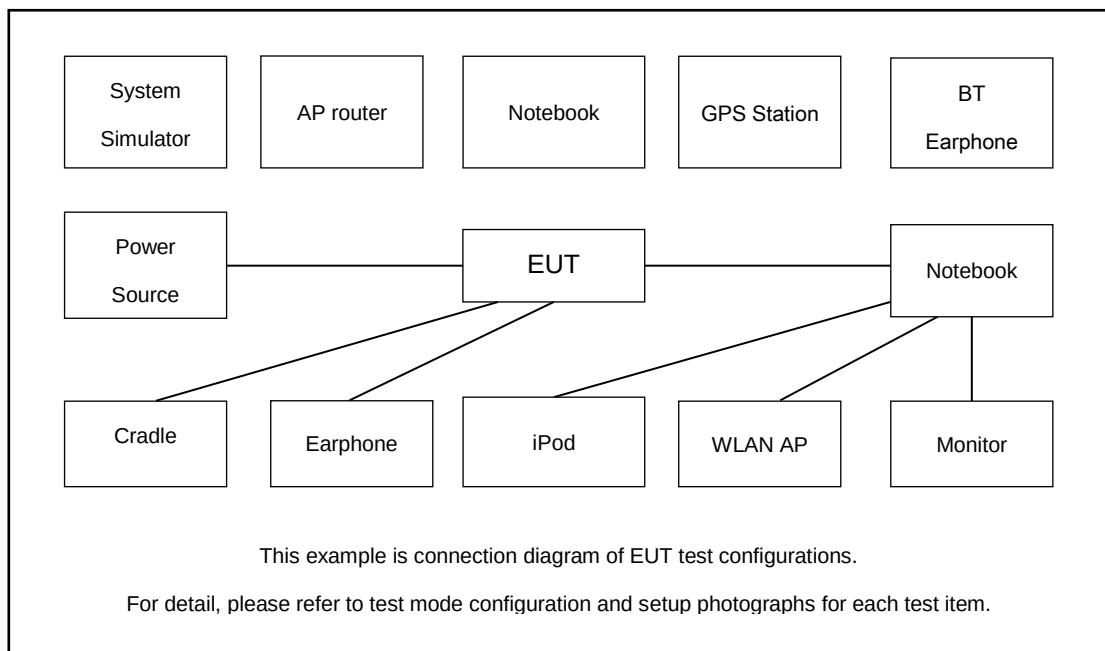
2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions 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
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1: WLAN (2.4GHz) Link + TF + TC Mode 2: WLAN (5GHz) Link + TF + TC Mode 3: WLAN (2.4GHz) Idle + TF + TC Mode 4: WLAN (5GHz) Idle + TF + TC
Receiver Radiated Emission	Mode 1 :WLAN (2.4GHz) Idle
Remark: - The worst case of conducted emission is mode 4; only the test data of it was reported. - TF stands for Test Function, and consists of H-Pattern and MPEG4. - TC sands for Test Configuration, and consists of SD Card, eSATA HD*2, USB HD, 1394a HD, Monitor (VGA Out), Monitor (HDMI Out), Modem (Serial Out), RS-232 Cable (Load), PCMCIA Card, Smart Card, Earphone with Mic, RJ-45 Link, Battery, and AC 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.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded,1.8m
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.	LCD Monitor	Dell	2715Qt	FCC DoC	Shielded, 1.6m	Unshielded,1.8m
4.	LCD Monitor	Dell	U2410	FCC DoC	Shielded, 1.6m	Unshielded,1.8m
5.	e-SATA HD	WD	Studio Edition II	FCC DoC	Shielded, 1.05m	Unshielded,1.8m
6.	1394a HD	dataTale	TQ-M12H	FCC DoC	Shielded, 1.8m	Unshielded,1.8m
7.	USB HD	WD	WDBAAR3200ABK-PESN	FCC DoC	Shielded, 0.5m	Unshielded,1.8m
8.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
9.	Modem	ACCEX	DM1414	IFAXDM1414	Shielded, 1.5 m	N/A
10.	Earphone + Mic	Ergotech	ET-E200	FCC DoC	Unshielded, 1.8m	N/A
11.	PCMCIA Card	D-Link	DWL-650	KA2DWL-650V2	N/A	N/A
12.	Smart Card	N/A	N/A	N/A	N/A	N/A
13.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A



2.5 EUT Operation Test Setup

The RF test items, programmed RF utility, "art.exe" installed in the notebook make the EUT provide functions like channel selection and power level for continuous transmitting and receiving 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.

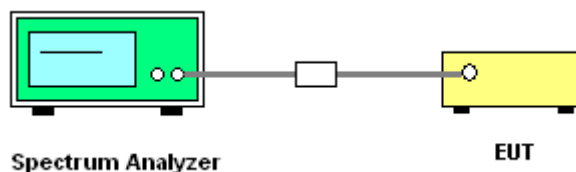
3.1.2 Measuring Instruments

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.

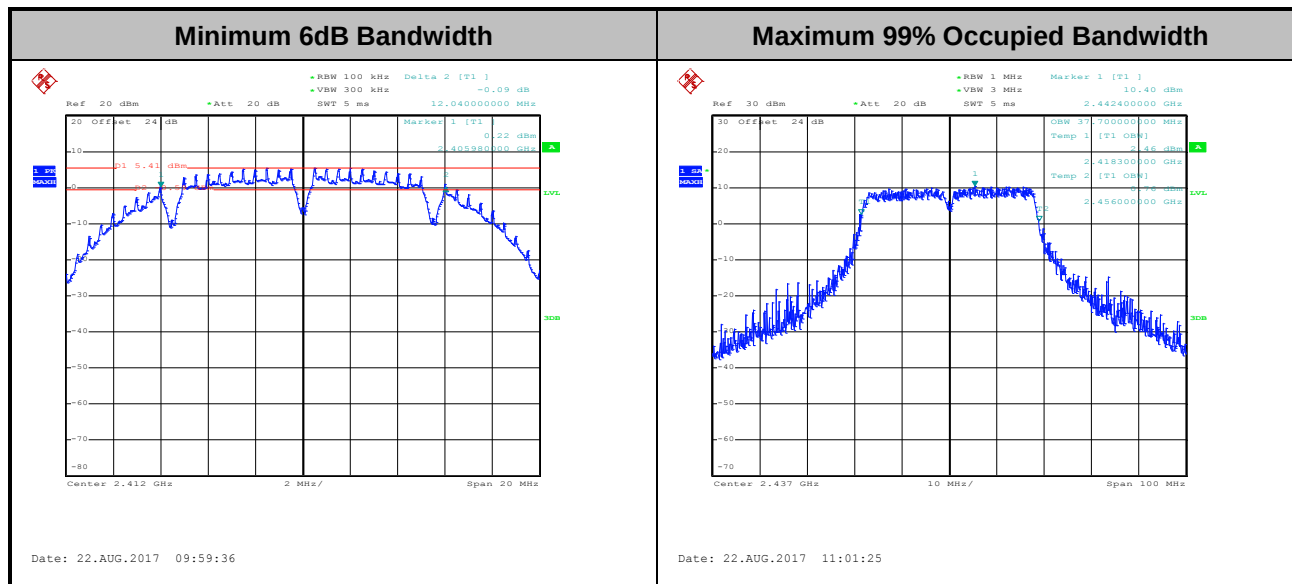
3.1.4 Test Setup





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 Peak Output Power Measurement

3.2.1 Limit of Peak 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.

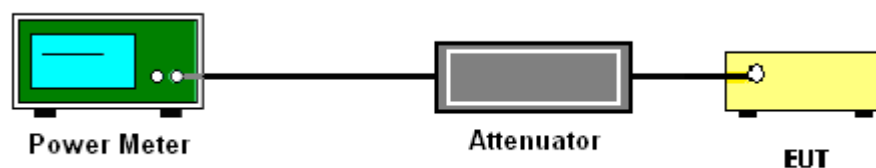
3.2.2 Measuring Instruments

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 9.1.2 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.

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.

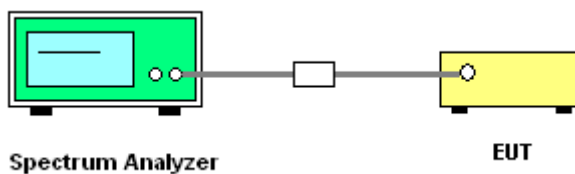
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

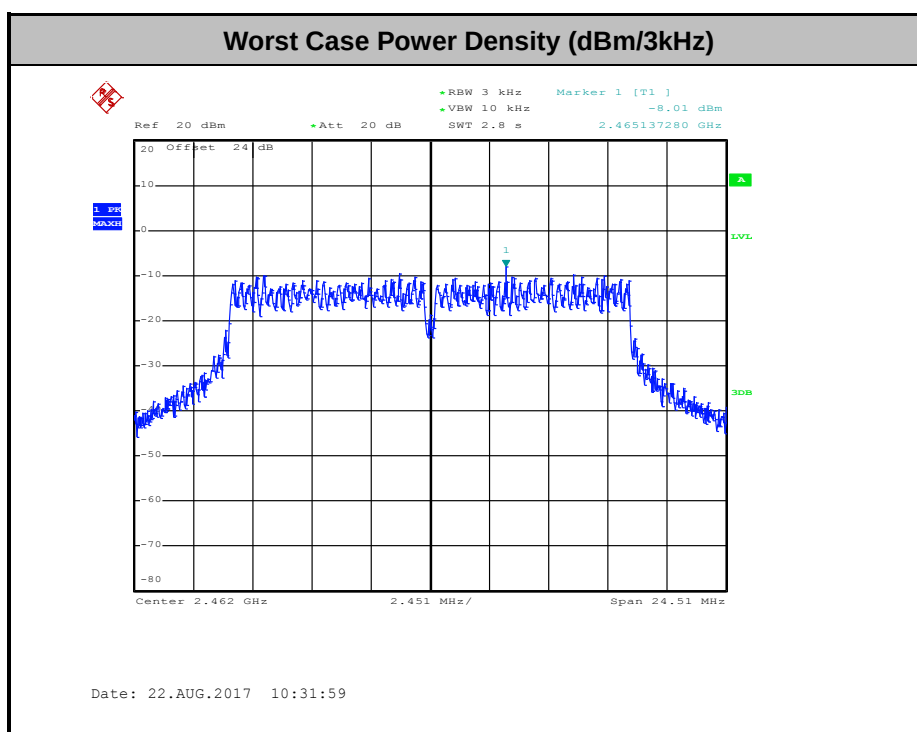
1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum 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 and radiated emissions which fall in the restricted bands, as defined in NCC LP0002 section 2.7, must also comply with the radiated emission limits specified in NCC LP0002 section 2.8.

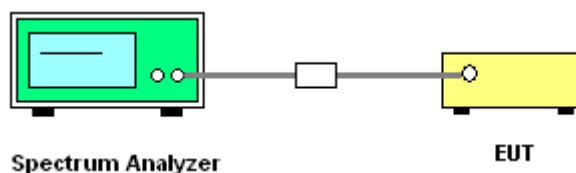
3.4.2 Measuring Instruments

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.
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.

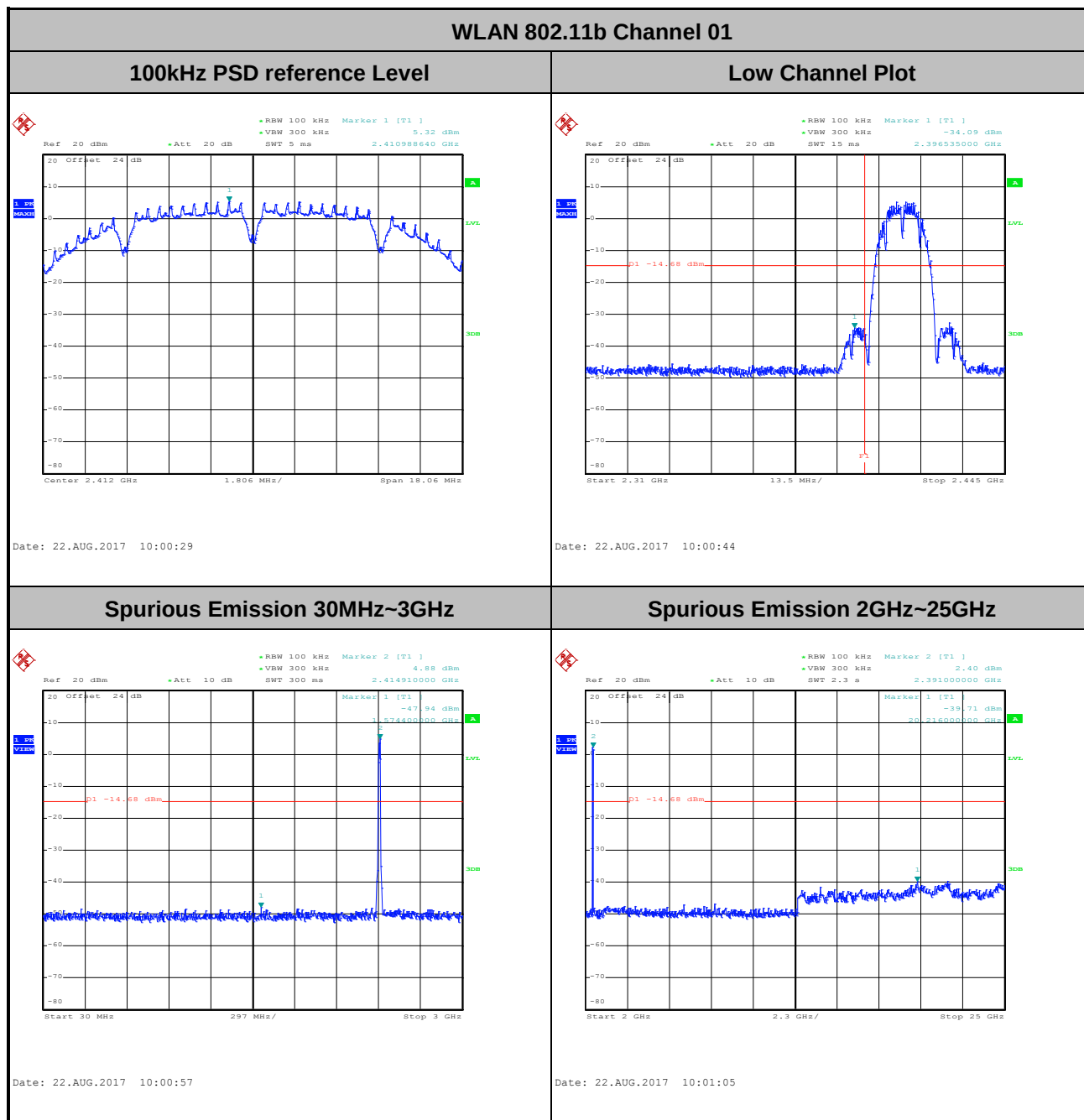
3.4.4 Test Setup





3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Allen Lin

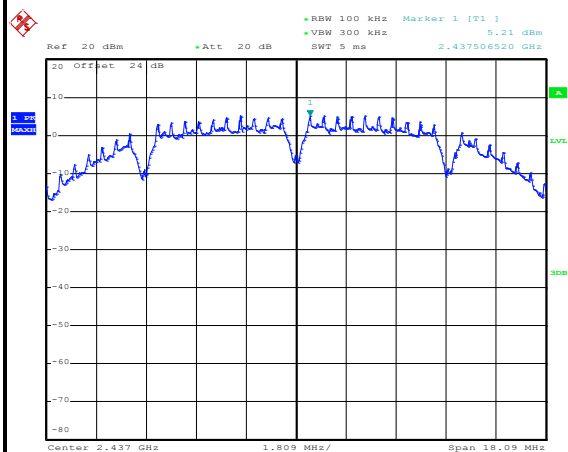




Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

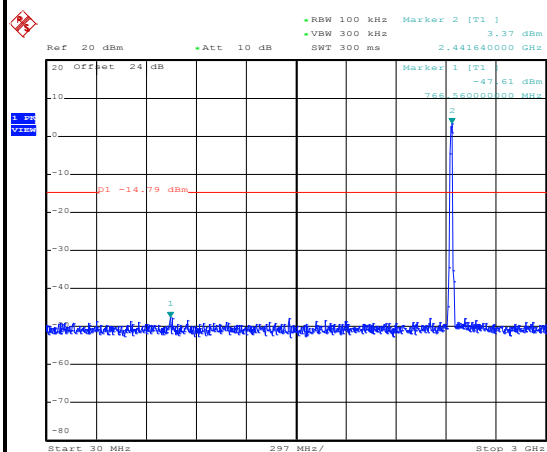
WLAN 802.11b Channel 06

100kHz PSD reference Level



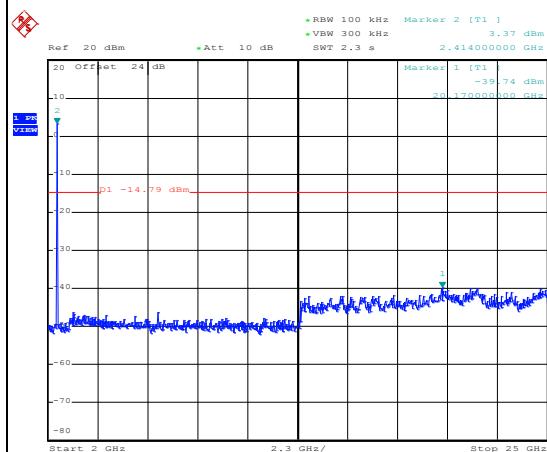
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Spurious Emission 30MHz~3GHz



Date: 22.AUG.2017 10:04:00

Spurious Emission 2GHz~25GHz



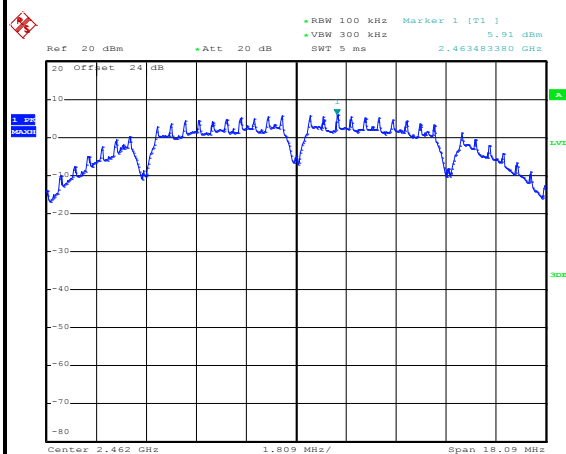
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Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Allen Lin

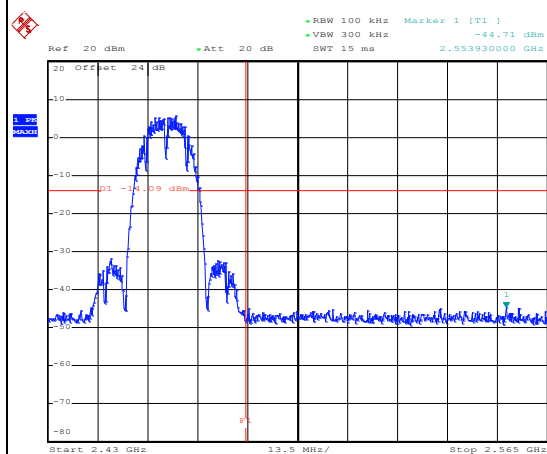
WLAN 802.11b Channel 11

100kHz PSD reference Level



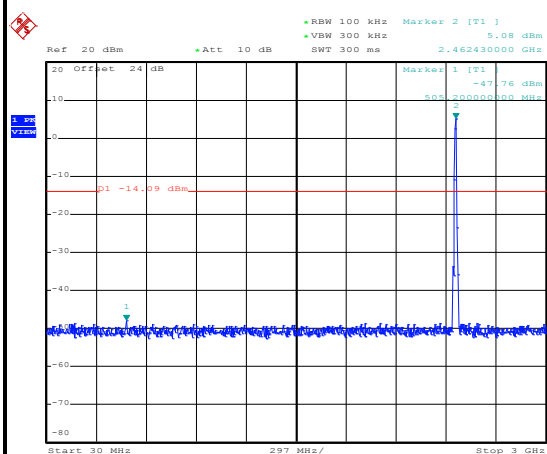
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High Channel Plot



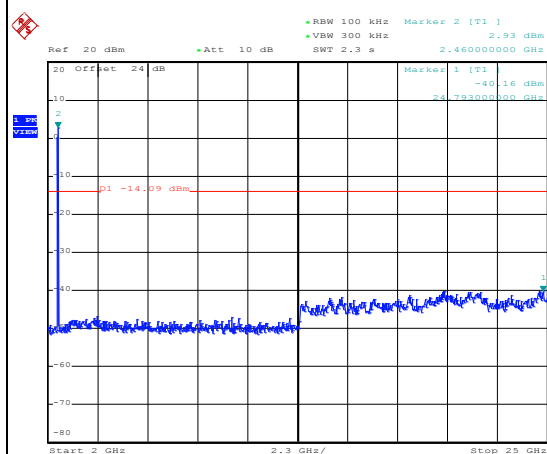
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Spurious Emission 30MHz~3GHz



Date: 22.AUG.2017 10:07:06

Spurious Emission 2GHz~25GHz



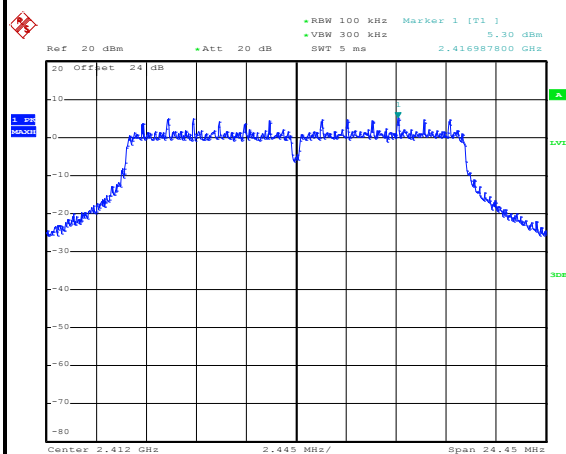
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Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Allen Lin

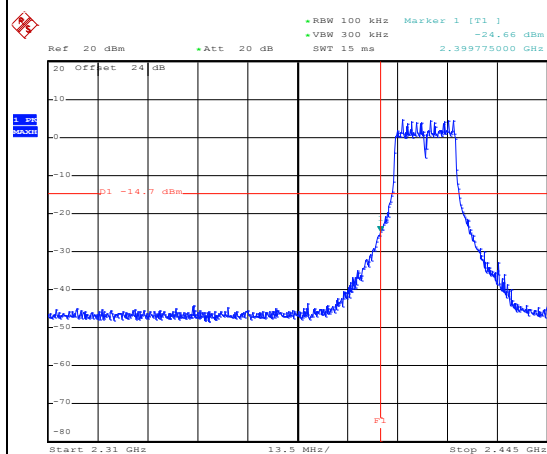
WLAN 802.11g Channel 01

100kHz PSD reference Level



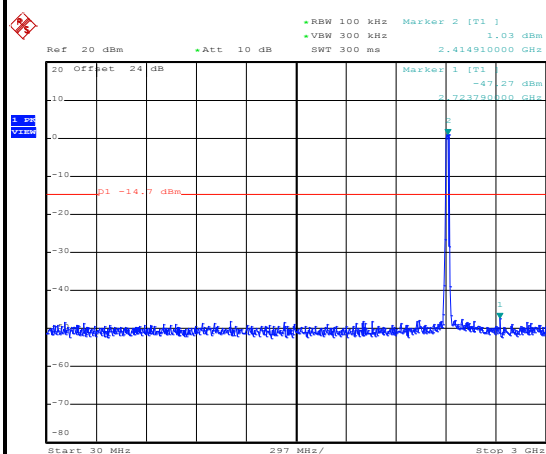
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Low Channel Plot



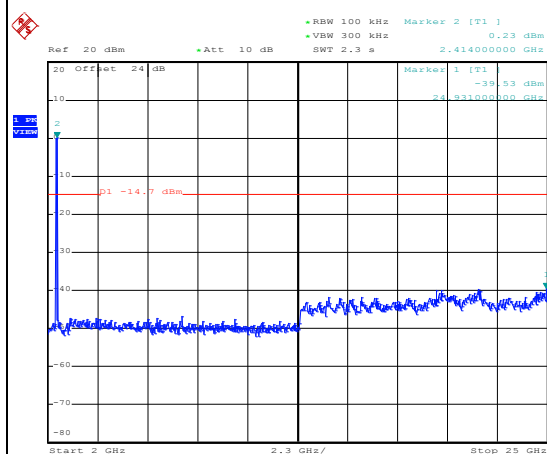
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Spurious Emission 30MHz~3GHz



Date: 22.AUG.2017 10:26:37

Spurious Emission 2GHz~25GHz



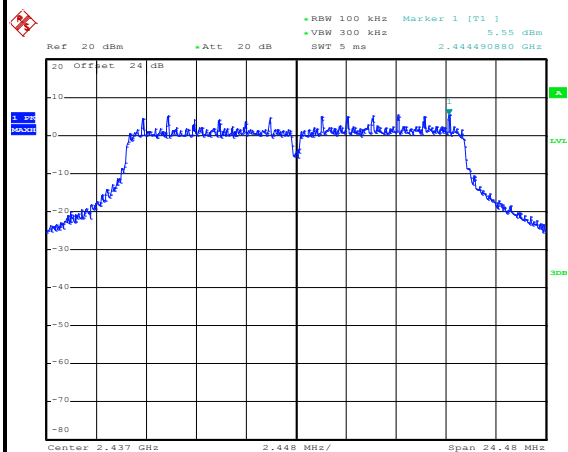
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Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

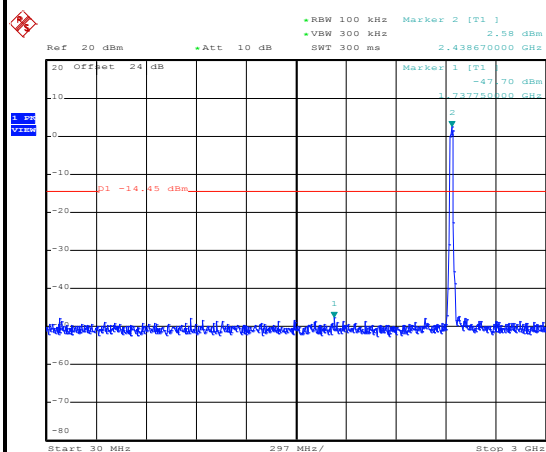
WLAN 802.11g Channel 06

100kHz PSD reference Level



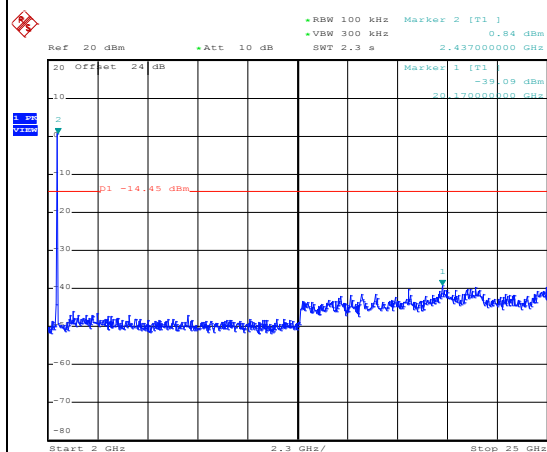
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Spurious Emission 30MHz~3GHz



Date: 22.AUG.2017 10:29:40

Spurious Emission 2GHz~25GHz



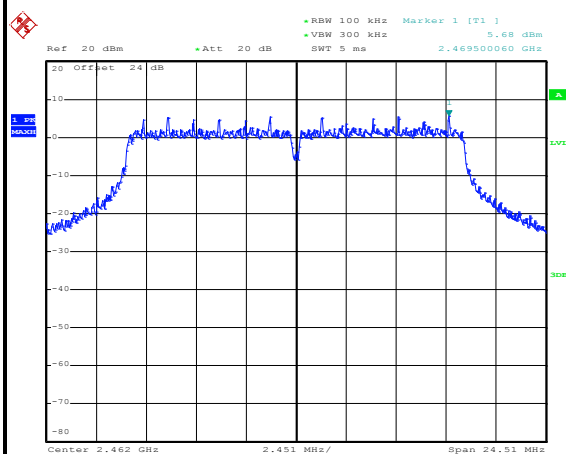
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Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Allen Lin

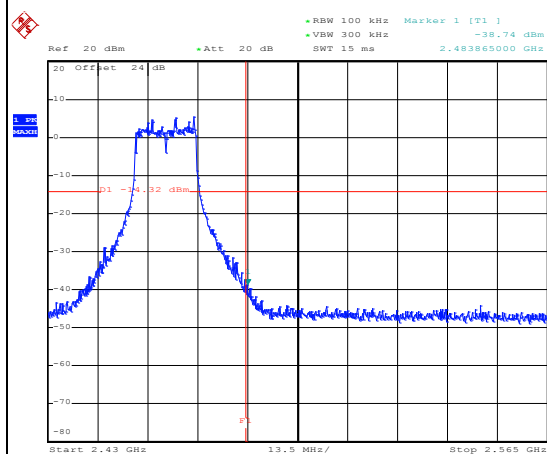
WLAN 802.11g Channel 11

100kHz PSD reference Level



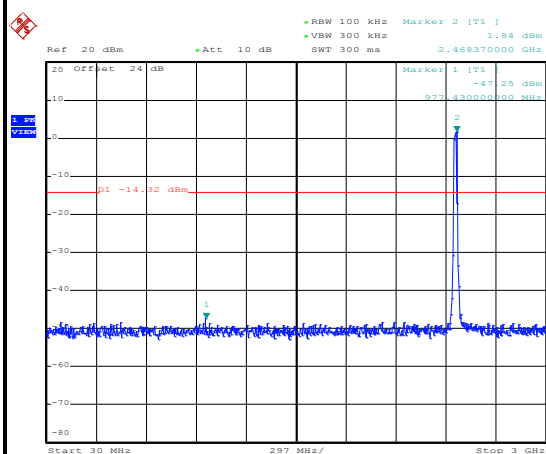
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High Channel Plot



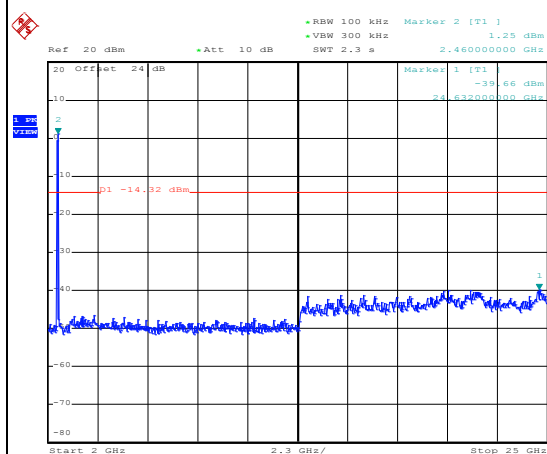
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Spurious Emission 30MHz~3GHz



Date: 22.AUG.2017 10:33:43

Spurious Emission 2GHz~25GHz



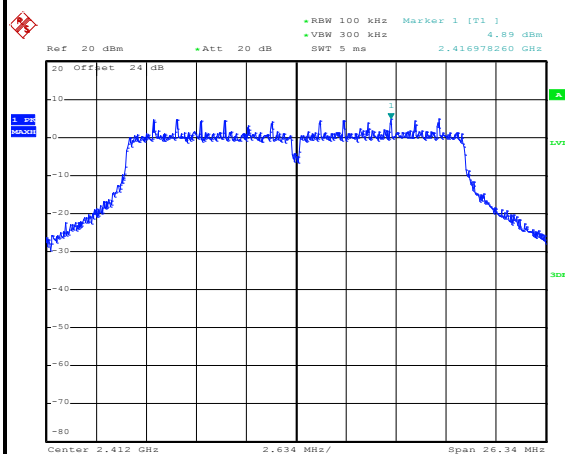
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Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Allen Lin

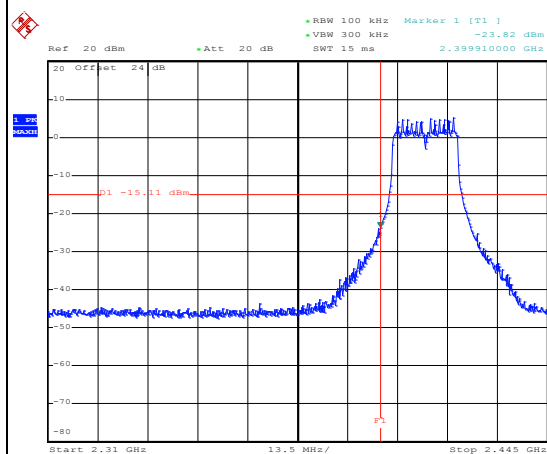
WLAN 802.11n HT20 Channel 01

100kHz PSD reference Level



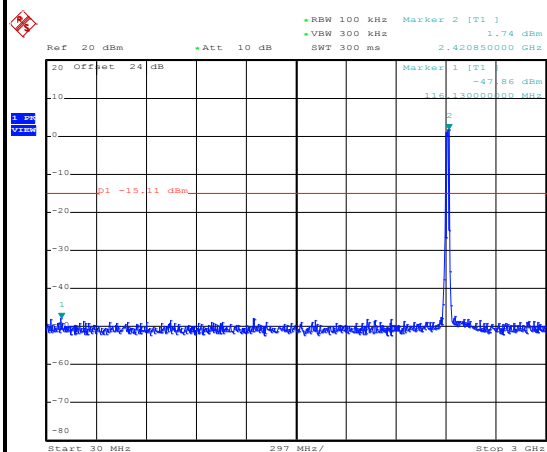
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Low Channel Plot



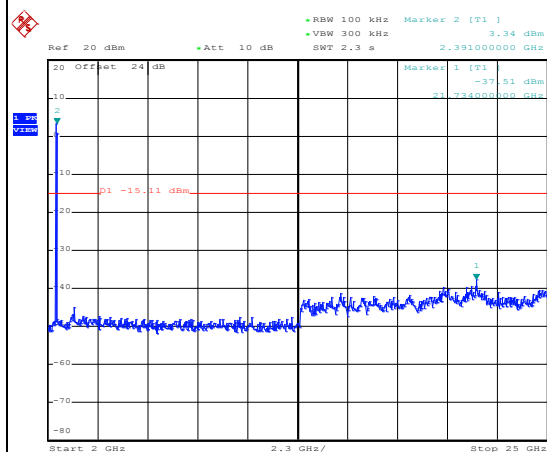
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Spurious Emission 30MHz~3GHz



Date: 22.AUG.2017 10:39:27

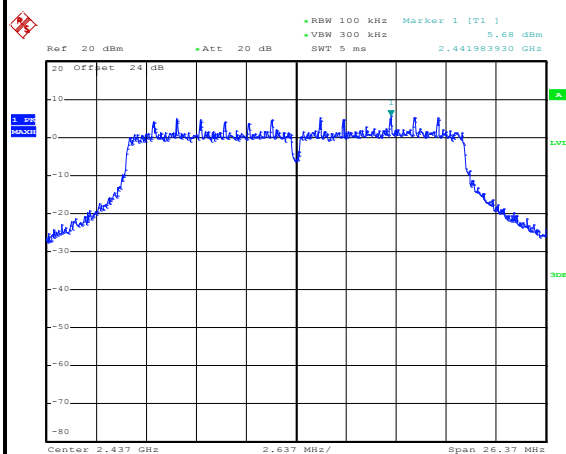
Spurious Emission 2GHz~25GHz



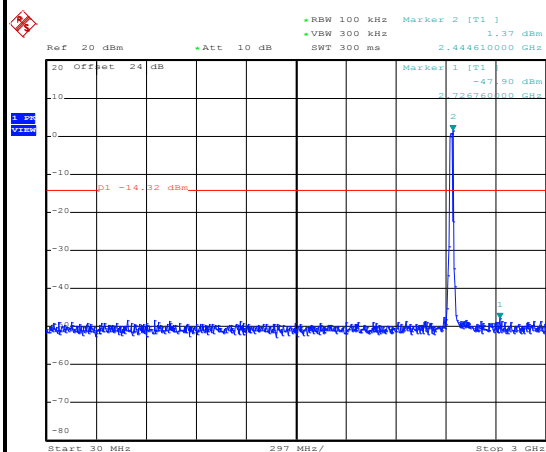
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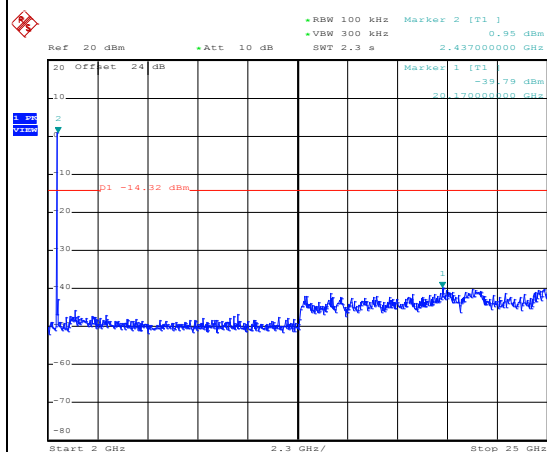
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

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

Date: 22.AUG.2017 10:48:13

Spurious Emission 30MHz~3GHz

Date: 22.AUG.2017 10:48:27

Spurious Emission 2GHz~25GHz

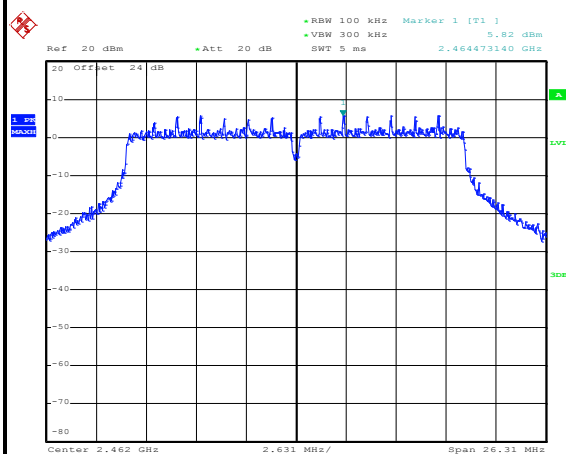
Date: 22.AUG.2017 10:48:35



Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Allen Lin

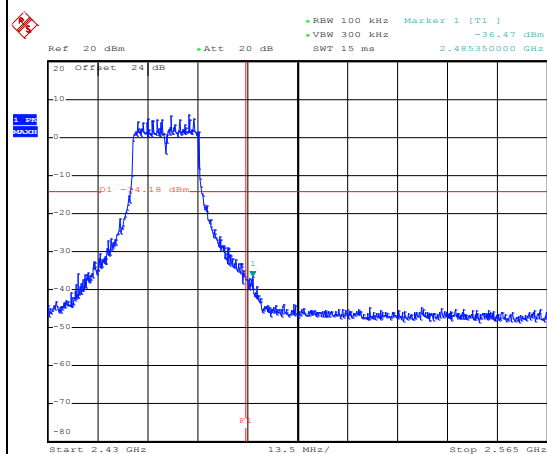
WLAN 802.11n HT20 Channel 11

100kHz PSD reference Level



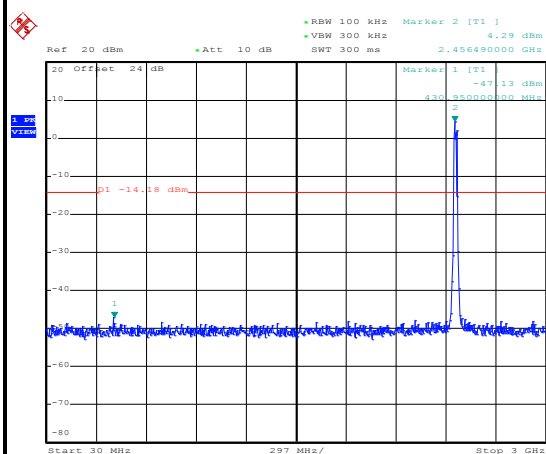
Date: 22.AUG.2017 10:51:31

High Channel Plot



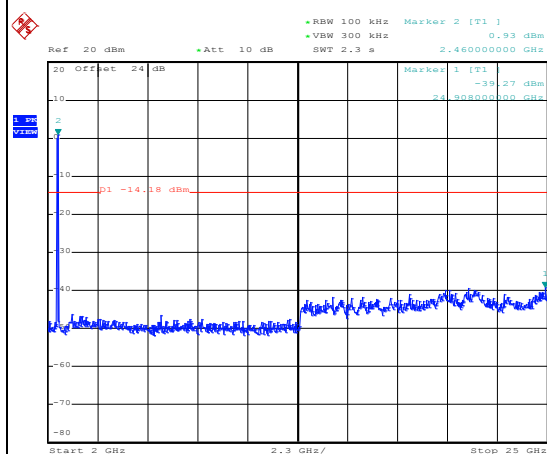
Date: 22.AUG.2017 10:52:16

Spurious Emission 30MHz~3GHz



Date: 22.AUG.2017 10:52:29

Spurious Emission 2GHz~25GHz

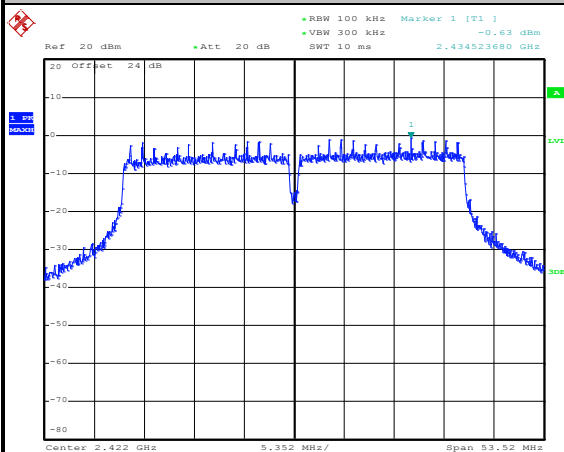


Date: 22.AUG.2017 10:52:38

Test Mode :	802.11n HT40	Temperature :	21~25℃
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Allen Lin

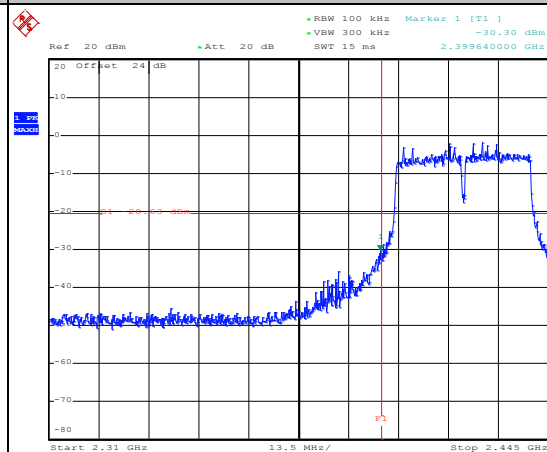
WLAN 802.11n HT40 Channel 03

100kHz PSD reference Level



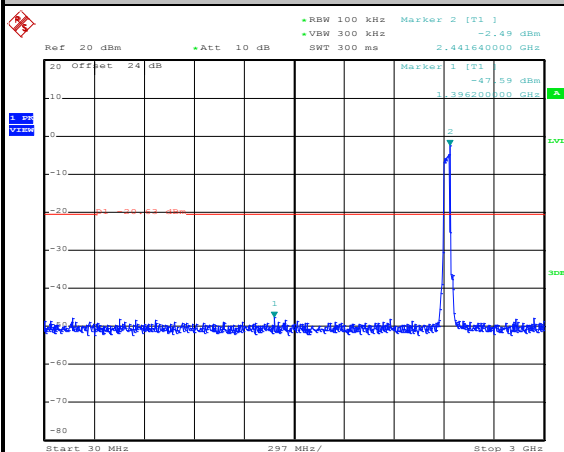
Date: 29.AUG.2017 12:16:17

Low Channel Plot



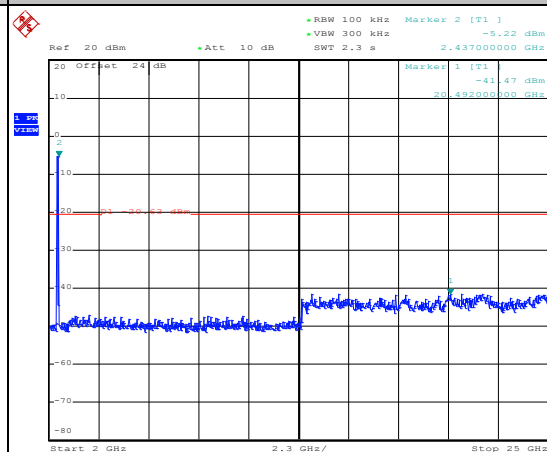
Date: 29.AUG.2017 12:16:37

Spurious Emission 30MHz~3GHz



Date: 29.AUG.2017 12:19:11

Spurious Emission 2GHz~25GHz



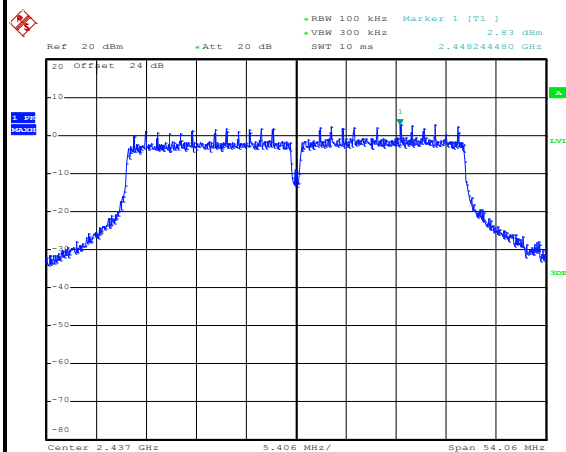
Date: 29.AUG.2017 12:19:19



Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

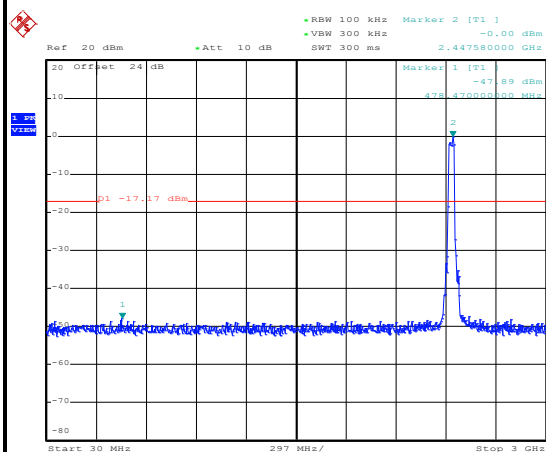
WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level



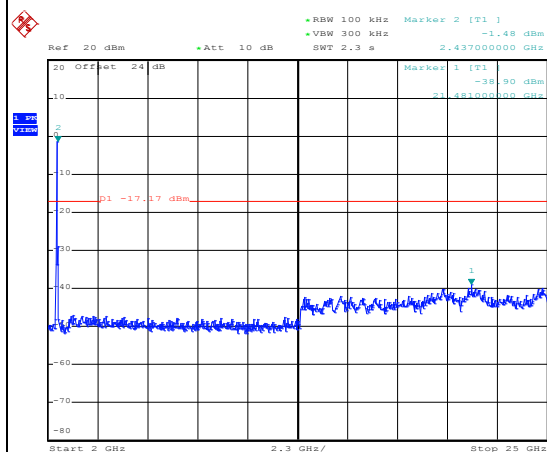
Date: 22.AUG.2017 11:00:15

Spurious Emission 30MHz~3GHz



Date: 22.AUG.2017 11:00:57

Spurious Emission 2GHz~25GHz



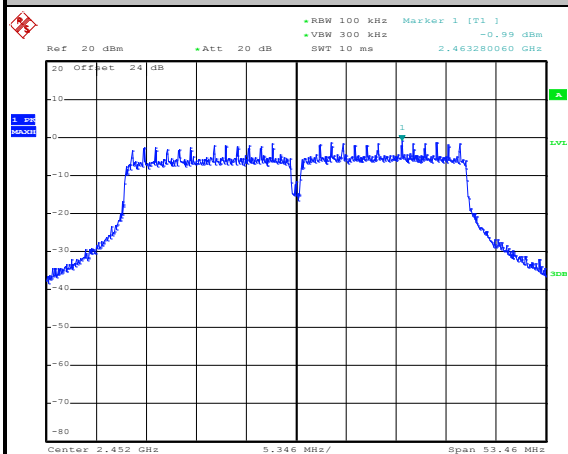
Date: 22.AUG.2017 11:01:06



Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Allen Lin

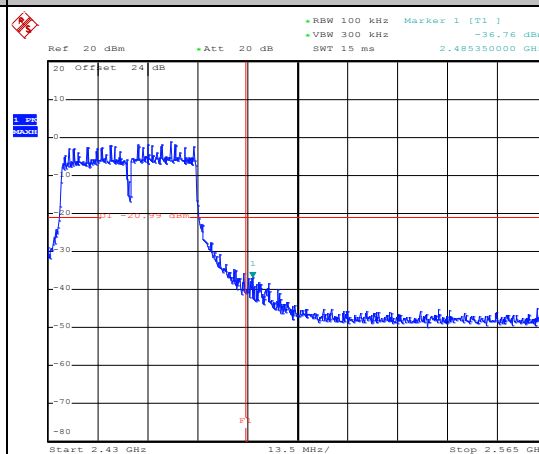
WLAN 802.11n HT40 Channel 09

100kHz PSD reference Level



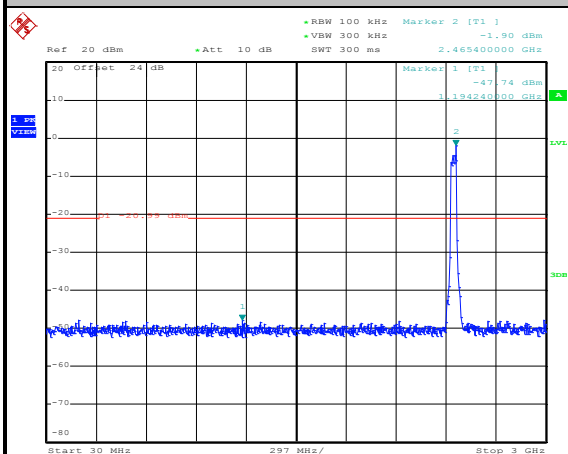
Date: 29.AUG.2017 12:25:27

High Channel Plot



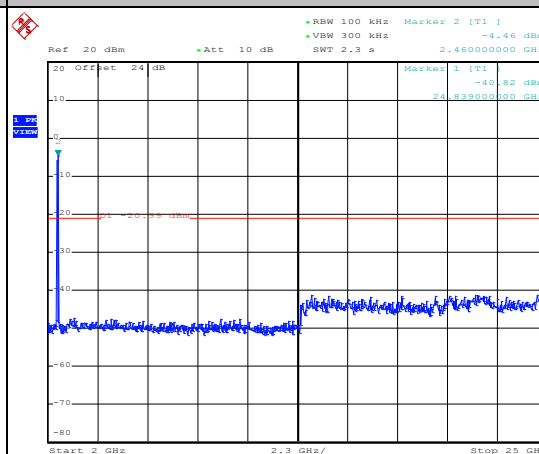
Date: 29.AUG.2017 12:25:51

Spurious Emission 30MHz~3GHz



Date: 29.AUG.2017 12:26:05

Spurious Emission 2GHz~25GHz



Date: 29.AUG.2017 12:26:13

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 NCC LP0002 section 2.8 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

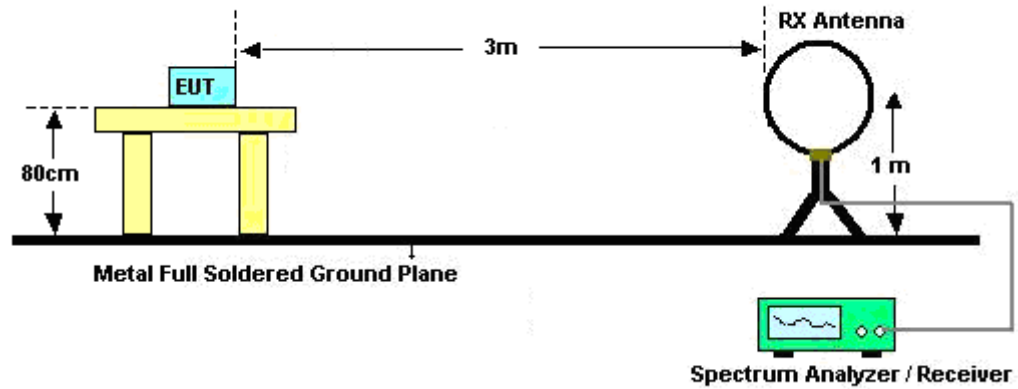
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test 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 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:

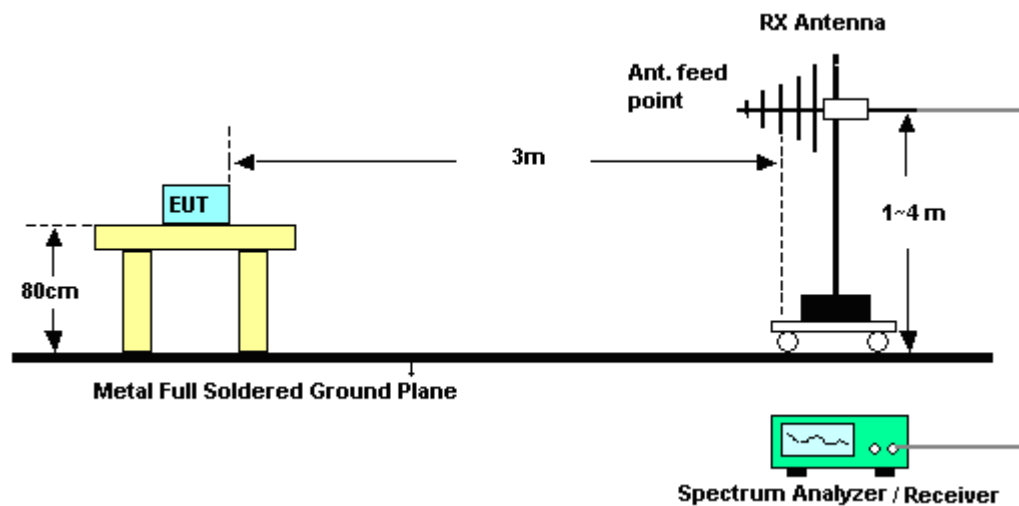
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

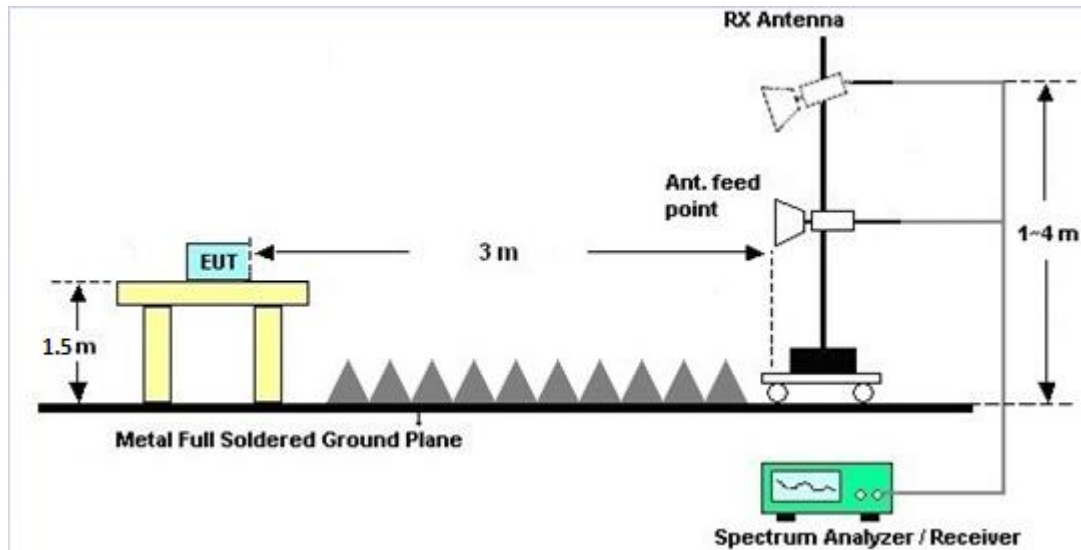
For radiated emissions below 30MHz



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 NCC LP0002 section 5.13 was not reported.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

3.6 Test of Receiver Radiated Emission Measurement

3.6.1 Limit of Receiver Radiated Emission

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

3.6.2 Measuring Instruments

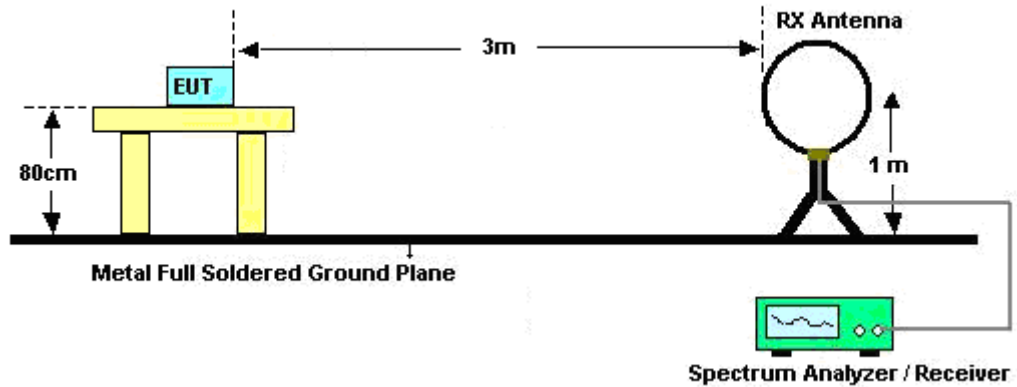
The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

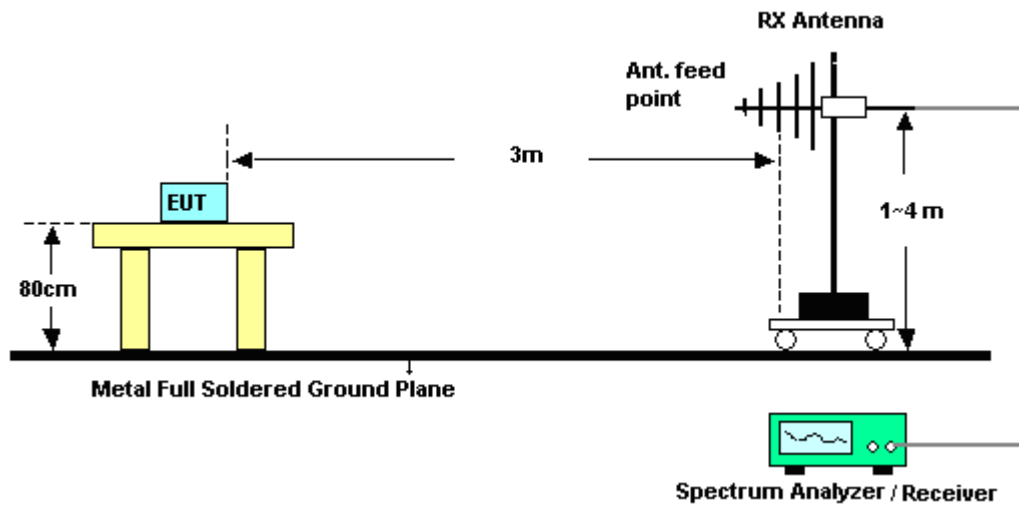
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna is a Bi-Log antenna and its height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, 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.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.6.4 Test Setup

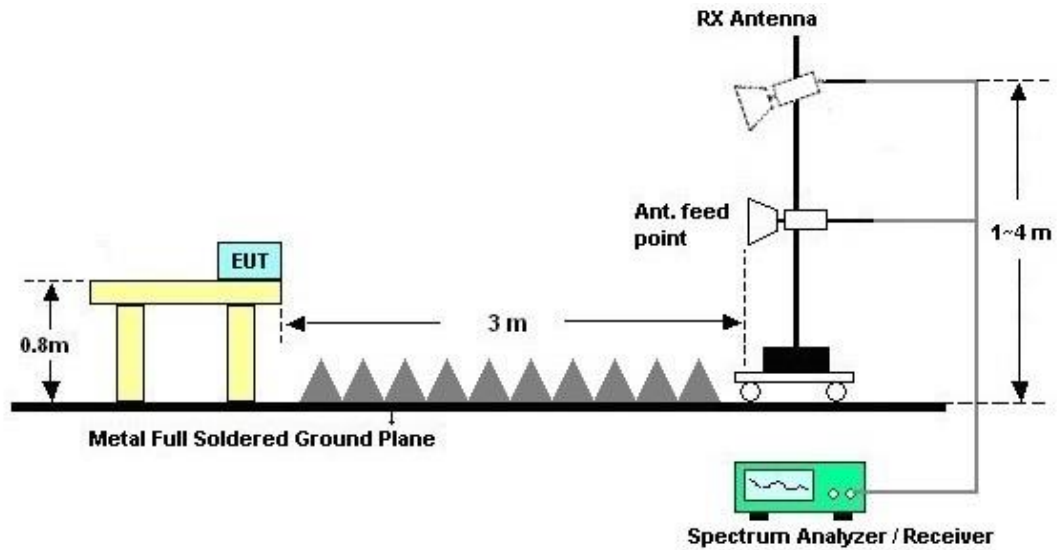
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.6.5 Test Result of Receiver 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 NCC LP0002 section 5.13 was not reported.

3.6.6 Test Result of Receiver Radiated Spurious Emission (30MHz ~ 5th Harmonic)

Please refer to Appendix D.

3.7 AC Conducted Emission Measurement

3.7.1 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.

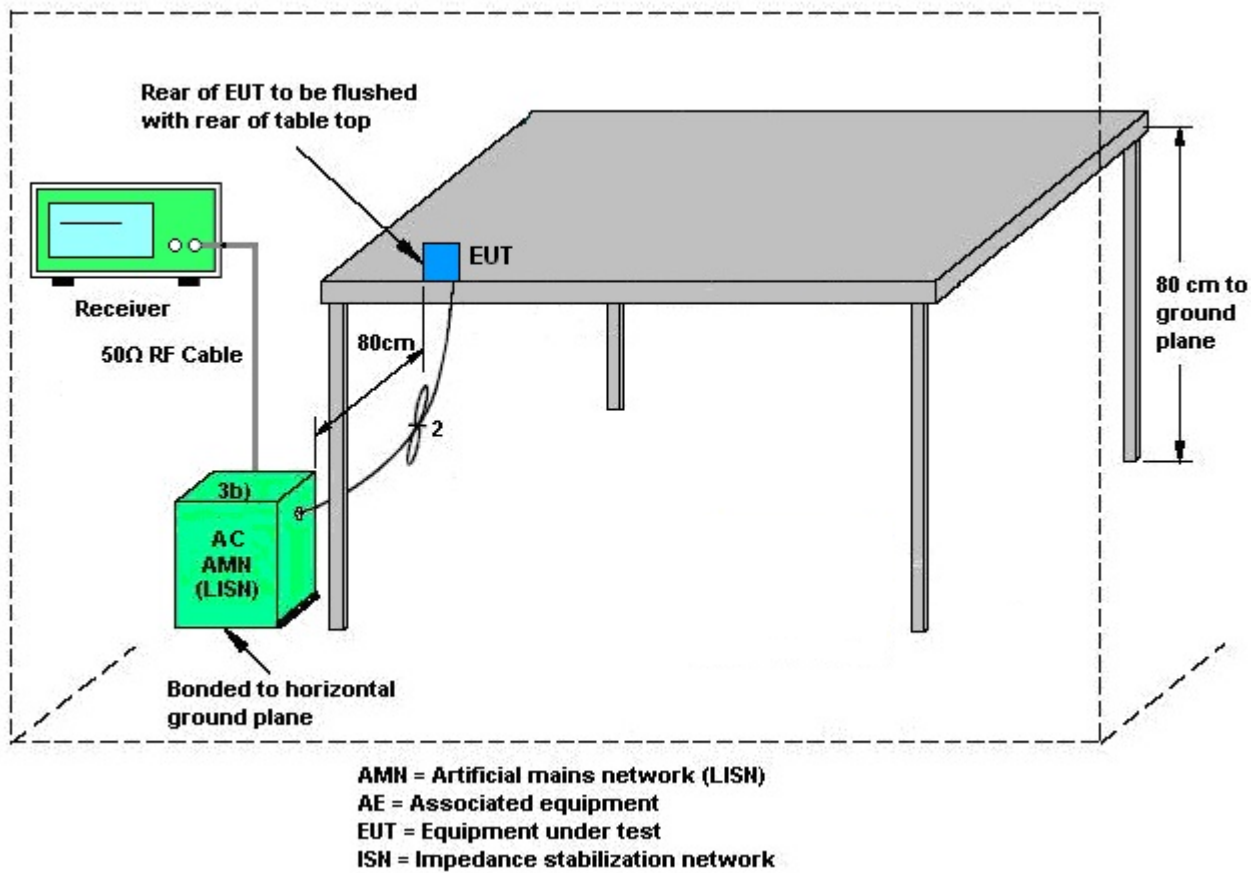
3.7.2 Measuring Instruments

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

3.7.3 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.

3.7.4 Test Setup



3.7.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.8 Antenna Requirements

3.8.1 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 LP0002 Section 2.2, Section 3.10.1.3, and Section 3.10.1.4.

3.8.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.8.3 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	0932001	N/A	Sep. 29, 2016	Aug. 18, 2017 ~ Aug. 29, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz z	Sep. 29, 2016	Aug. 18, 2017 ~ Aug. 29, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP30	101067	9kHz ~ 30GHz	Nov. 17, 2016	Aug. 18, 2017 ~ Aug. 29, 2017	Nov. 16, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 31, 2017	N/A	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Aug. 31, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Aug. 31, 2017	Dec. 05, 2017	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Dec. 29, 2016	Aug. 31, 2017	Dec. 28, 2017	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Aug. 24, 2017 ~ Aug. 28, 2017	Oct. 19, 2018	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35413&02	30MHz~1GHz	Jan. 07, 2017	Aug. 24, 2017 ~ Aug. 28, 2017	Jan. 06, 2018	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-132 5	1GHz ~ 18GHz	Sep. 30, 2016	Aug. 24, 2017 ~ Aug. 28, 2017	Sep. 29, 2017	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170 584	18GHz- 40GHz	Nov. 08, 2016	Aug. 24, 2017 ~ Aug. 28, 2017	Nov. 07, 2017	Radiation (03CH10-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 26, 2016	Aug. 24, 2017 ~ Aug. 28, 2017	Oct. 25, 2017	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JPA00101800 -30-10P	160118550 004	1GHz~18GHz	Apr. 13, 2017	Aug. 24, 2017 ~ Aug. 28, 2017	Apr. 12, 2018	Radiation (03CH10-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800	2025787	1GHZ~18GHZ	Feb. 13, 2017	Aug. 24, 2017 ~ Aug. 28, 2017	Feb. 12, 2018	Radiation (03CH10-HY)
Preamplifier	Keysight	83017A	MY532700 78	1GHz~26.5GHz	Oct. 26, 2016	Aug. 24, 2017 ~ Aug. 28, 2017	Oct. 25, 2017	Radiation (03CH10-HY)
Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Aug. 24, 2017 ~ Aug. 28, 2017	Jul. 17, 2018	Radiation (03CH10-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY532900 53	20Hz to 26.5GHz	Jan. 12, 2017	Aug. 24, 2017 ~ Aug. 28, 2017	Jan. 11, 2018	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 85	10Hz ~ 44GHz	Oct. 17, 2016	Aug. 24, 2017 ~ Aug. 28, 2017	Oct. 16, 2017	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Aug. 24, 2017 ~ Aug. 28, 2017	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Aug. 24, 2017 ~ Aug. 28, 2017	N/A	Radiation (03CH10-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
--	------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.60
--	------

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.90
--	------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
--	------

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Allen Lin	Temperature:	21~25	°C
Test Date:	2017/08/18 ~ 2017/08/29	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
11b	1Mbps	1	1	2412	15.75	12.04	0.50	Pass
11b	1Mbps	1	6	2437	15.75	12.06	0.50	Pass
11b	1Mbps	1	11	2462	15.75	12.06	0.50	Pass
11g	6Mbps	1	1	2412	19.05	16.30	0.50	Pass
11g	6Mbps	1	6	2437	19.15	16.32	0.50	Pass
11g	6Mbps	1	11	2462	19.00	16.34	0.50	Pass
HT20	MCS0	1	1	2412	20.05	17.56	0.50	Pass
HT20	MCS0	1	6	2437	20.00	17.58	0.50	Pass
HT20	MCS0	1	11	2462	20.00	17.54	0.50	Pass
HT40	MCS0	1	3	2422	37.30	35.68	0.50	Pass
HT40	MCS0	1	6	2437	37.70	36.04	0.50	Pass
HT40	MCS0	1	9	2452	37.40	35.64	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	17.94	30.00	2.75	20.69	36.00	Pass
11b	1Mbps	1	6	2437	17.55	30.00	2.75	20.30	36.00	Pass
11b	1Mbps	1	11	2462	17.57	30.00	2.75	20.32	36.00	Pass
11g	6Mbps	1	1	2412	24.60	30.00	2.75	27.35	36.00	Pass
11g	6Mbps	1	6	2437	24.52	30.00	2.75	27.27	36.00	Pass
11g	6Mbps	1	11	2462	24.53	30.00	2.75	27.28	36.00	Pass
HT20	MCS0	1	1	2412	24.75	30.00	2.75	27.50	36.00	Pass
HT20	MCS0	1	6	2437	24.82	30.00	2.75	27.57	36.00	Pass
HT20	MCS0	1	11	2462	24.92	30.00	2.75	27.67	36.00	Pass
HT40	MCS0	1	3	2422	24.55	30.00	2.75	27.30	36.00	Pass
HT40	MCS0	1	6	2437	25.21	30.00	2.75	27.96	36.00	Pass
HT40	MCS0	1	9	2452	24.50	30.00	2.75	27.25	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

2.4GHz Band						
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
11b	1Mbps	1	1	2412	0.00	15.33
11b	1Mbps	1	6	2437	0.00	15.13
11b	1Mbps	1	11	2462	0.00	15.20
11g	6Mbps	1	1	2412	0.04	16.15
11g	6Mbps	1	6	2437	0.04	16.46
11g	6Mbps	1	11	2462	0.04	16.29
HT20	MCS0	1	1	2412	0.05	16.21
HT20	MCS0	1	6	2437	0.05	16.49
HT20	MCS0	1	11	2462	0.05	16.40
HT40	MCS0	1	3	2422	0.07	14.47
HT40	MCS0	1	6	2437	0.07	16.37
HT40	MCS0	1	9	2452	0.07	14.42

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	-9.38	2.75	8.00	Pass
11b	1Mbps	1	6	2437	-9.65	2.75	8.00	Pass
11b	1Mbps	1	11	2462	-9.56	2.75	8.00	Pass
11g	6Mbps	1	1	2412	-8.98	2.75	8.00	Pass
11g	6Mbps	1	6	2437	-8.60	2.75	8.00	Pass
11g	6Mbps	1	11	2462	-8.01	2.75	8.00	Pass
HT20	MCS0	1	1	2412	-8.60	2.75	8.00	Pass
HT20	MCS0	1	6	2437	-8.96	2.75	8.00	Pass
HT20	MCS0	1	11	2462	-9.61	2.75	8.00	Pass
HT40	MCS0	1	3	2422	-15.89	2.75	8.00	Pass
HT40	MCS0	1	6	2437	-12.37	2.75	8.00	Pass
HT40	MCS0	1	9	2452	-15.99	2.75	8.00	Pass



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Shareef Yu	Temperature :	26~27°C
		Relative Humidity :	58~62%

EUT Information

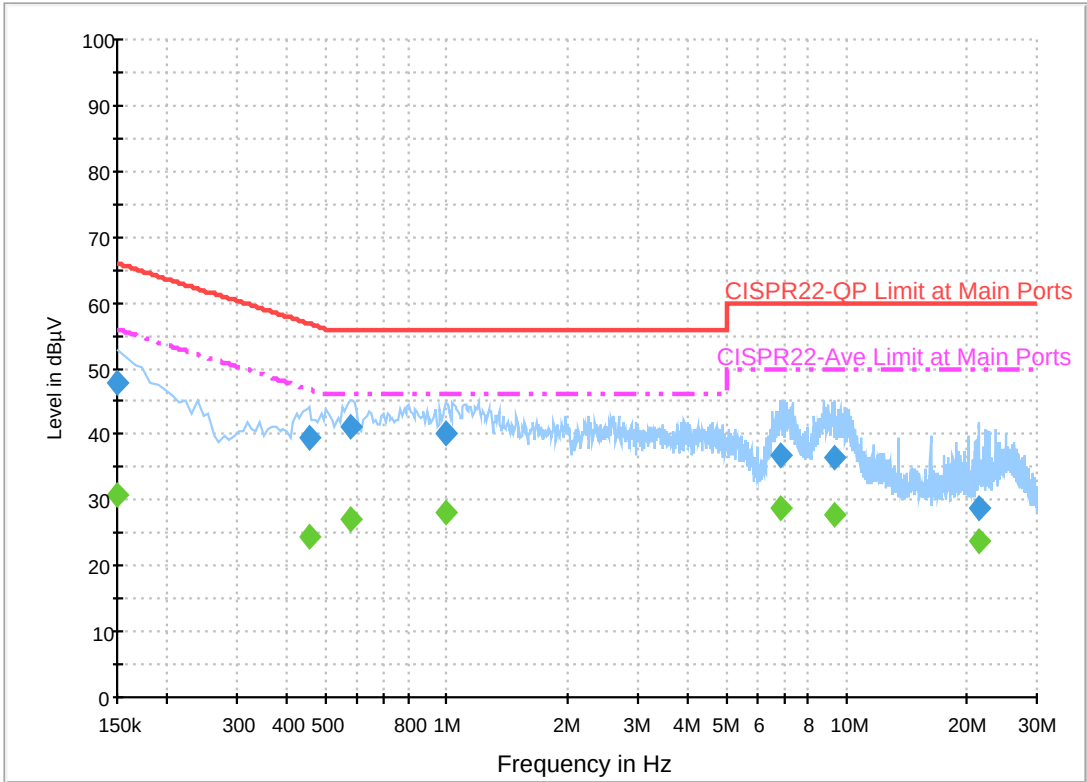
Report NO :752305

Test Mode :Mode 4

Test Voltage :110Vac/60Hz

Phase :Line

ENV216 Auto Test-L



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	48.0	Off	L1	19.6	18.0	66.0
0.454000	39.4	Off	L1	19.5	17.4	56.8
0.574000	41.3	Off	L1	19.5	14.7	56.0
0.998000	40.3	Off	L1	19.5	15.7	56.0
6.870000	36.8	Off	L1	19.6	23.2	60.0
9.310000	36.5	Off	L1	19.7	23.5	60.0
21.542000	28.8	Off	L1	19.8	31.2	60.0

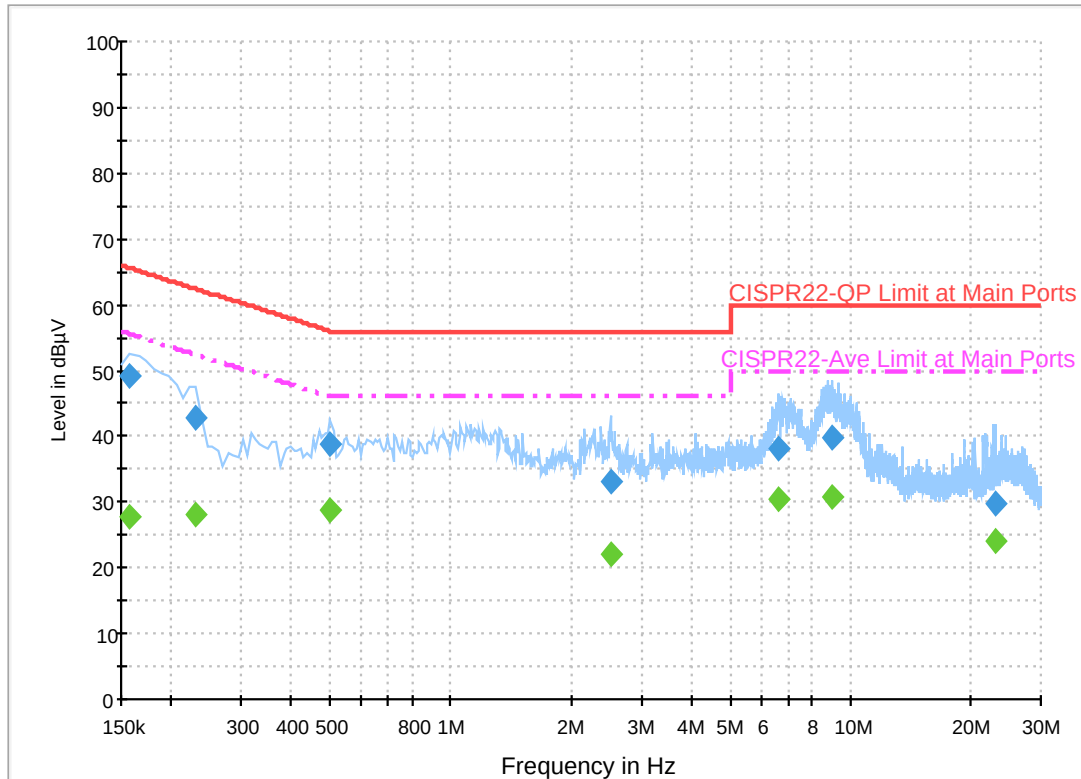
Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	30.6	Off	L1	19.6	25.4	56.0
0.454000	24.5	Off	L1	19.5	22.3	46.8
0.574000	27.3	Off	L1	19.5	18.7	46.0
0.998000	28.1	Off	L1	19.5	17.9	46.0
6.870000	28.7	Off	L1	19.6	21.3	50.0
9.310000	27.8	Off	L1	19.7	22.2	50.0
21.542000	23.7	Off	L1	19.8	26.3	50.0

EUT Information

Report NO : 752305
Test Mode : Mode 4
Test Voltage : 110Vac/60Hz
Phase : Neutral

ENV216 Auto Test-N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	49.1	Off	N	19.5	16.5	65.6
0.230000	42.9	Off	N	19.5	19.5	62.4
0.502000	38.7	Off	N	19.5	17.3	56.0
2.510000	33.0	Off	N	19.2	23.0	56.0
6.646000	38.0	Off	N	19.6	22.0	60.0
9.030000	39.8	Off	N	19.7	20.2	60.0
23.166000	29.6	Off	N	19.9	30.4	60.0

Final Result 2

Frequency (MHz)	Average (dBµV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.158000	27.8	Off	N	19.5	27.8	55.6
0.230000	28.2	Off	N	19.5	24.2	52.4
0.502000	28.6	Off	N	19.5	17.4	46.0
2.510000	22.2	Off	N	19.2	23.8	46.0
6.646000	30.5	Off	N	19.6	19.5	50.0
9.030000	30.6	Off	N	19.7	19.4	50.0
23.166000	24.2	Off	N	19.9	25.8	50.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Tsung Li, Stan Hsieh and Kyle Chuang	Temperature :	24~26°C
		Relative Humidity :	45~47%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preampl 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)
802.11b CH 01 2412MHz		2388.855	51.44	-22.56	74	43.32	26.93	4.43	33.22	376	186	P	H
		2389.485	41.06	-12.94	54	32.94	26.93	4.43	33.22	376	186	A	H
	*	2412	106.91	-	-	98.68	26.99	4.47	33.21	376	186	P	H
	*	2412	103.87	-	-	95.64	26.99	4.47	33.21	376	186	A	H
		2373.84	51.12	-22.88	74	43.07	26.87	4.42	33.22	248	94	P	V
		2389.905	41	-13	54	32.87	26.93	4.43	33.21	248	94	A	V
	*	2412	106.57	-	-	98.34	26.99	4.47	33.21	248	94	P	V
	*	2412	103.33	-	-	95.1	26.99	4.47	33.21	248	94	A	V
802.11b CH 06 2437MHz		2363.06	50.91	-23.09	74	42.94	26.8	4.42	33.23	368	184	P	H
		2389.38	40.39	-13.61	54	32.27	26.93	4.43	33.22	368	184	A	H
	*	2437	106.11	-	-	97.73	27.11	4.48	33.19	368	184	P	H
	*	2437	103.04	-	-	94.66	27.11	4.48	33.19	368	184	A	H
		2493.14	51.55	-22.45	74	42.9	27.3	4.53	33.16	368	184	P	H
		2497.97	41.21	-12.79	54	32.56	27.3	4.53	33.16	368	184	A	H
		2370.76	51.05	-22.95	74	43	26.87	4.42	33.22	243	91	P	V
		2389.94	40.47	-13.53	54	32.34	26.93	4.43	33.21	243	91	A	V
	*	2437	105.93	-	-	97.55	27.11	4.48	33.19	243	91	P	V
	*	2437	102.56	-	-	94.18	27.11	4.48	33.19	243	91	A	V
		2486.49	52.07	-21.93	74	43.49	27.24	4.53	33.17	243	91	P	V
		2483.62	41.13	-12.87	54	32.55	27.24	4.53	33.17	243	91	A	V



802.11b CH 11 2462MHz	*	2462	105.67	-	-	97.19	27.18	4.5	33.18	399	183	P	H
	*	2462	102.53	-	-	94.05	27.18	4.5	33.18	399	183	A	H
		2490.28	52.6	-21.4	74	43.96	27.3	4.53	33.17	399	183	P	H
		2487.28	42.57	-11.43	54	33.99	27.24	4.53	33.17	399	183	A	H
													H
													H
	*	2462	104.32	-	-	95.84	27.18	4.5	33.18	285	91	P	V
	*	2462	100.97	-	-	92.49	27.18	4.5	33.18	285	91	A	V
		2486	52.21	-21.79	74	43.63	27.24	4.53	33.17	285	91	P	V
		2487.4	42.69	-11.31	54	34.11	27.24	4.53	33.17	285	91	A	V
													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 802.11b (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	47.52	-26.48	74	72.55	32.09	7.13	64.74	100	0	P	H
													H
													H
													H
		4824	45.51	-28.49	74	70.54	32.09	7.13	64.74	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	47.11	-26.89	74	71.92	32.21	7.2	64.7	100	0	P	H
		7311	49.97	-24.03	74	68.54	36.86	8.99	64.82	100	0	P	H
													H
													H
		4874	46.66	-27.34	74	71.47	32.21	7.2	64.7	100	0	P	V
		7311	49.29	-24.71	74	67.86	36.86	8.99	64.82	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	48.01	-25.99	74	72.63	32.33	7.24	64.66	100	0	P	H
		7386	48.43	-25.57	74	66.74	37.15	9.05	64.86	100	0	P	H
													H
													H
		4924	47.77	-26.23	74	72.39	32.33	7.24	64.66	100	0	P	V
		7386	49.1	-24.9	74	67.41	37.15	9.05	64.86	100	0	P	V
													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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2388.855	65.36	-8.64	74	57.24	26.93	4.43	33.22	377	187	P	H
		2389.8	48.72	-5.28	54	40.59	26.93	4.43	33.21	377	187	A	H
	*	2412	109.36	-	-	101.13	26.99	4.47	33.21	377	187	P	H
	*	2412	102.41	-	-	94.18	26.99	4.47	33.21	377	187	A	H
													H
													H
		2388.75	65.41	-8.59	74	57.29	26.93	4.43	33.22	249	90	P	V
		2389.905	48.84	-5.16	54	40.71	26.93	4.43	33.21	249	90	A	V
	*	2412	109.51	-	-	101.28	26.99	4.47	33.21	249	90	P	V
	*	2412	102.76	-	-	94.53	26.99	4.47	33.21	249	90	A	V
													V
													V
802.11g CH 06 2437MHz		2381.12	51.99	-22.01	74	43.93	26.87	4.43	33.22	366	184	P	H
		2389.94	41.63	-12.37	54	33.5	26.93	4.43	33.21	366	184	A	H
	*	2437	109.2	-	-	100.82	27.11	4.48	33.19	366	184	P	H
	*	2437	101.38	-	-	93	27.11	4.48	33.19	366	184	A	H
		2499.23	54.24	-19.76	74	45.59	27.3	4.53	33.16	366	184	P	H
		2498.11	43.36	-10.64	54	34.71	27.3	4.53	33.16	366	184	A	H
		2384.48	53.83	-20.17	74	45.77	26.87	4.43	33.22	241	87	P	V
		2389.94	43.13	-10.87	54	35	26.93	4.43	33.21	241	87	A	V
	*	2437	109.19	-	-	100.81	27.11	4.48	33.19	241	87	P	V
	*	2437	102.06	-	-	93.68	27.11	4.48	33.19	241	87	A	V
		2496.92	54.44	-19.56	74	45.79	27.3	4.53	33.16	241	87	P	V
		2483.83	43.72	-10.28	54	35.14	27.24	4.53	33.17	241	87	A	V



802.11g CH 11 2462MHz	*	2462	109.1	-	-	100.62	27.18	4.5	33.18	400	186	P	H
	*	2462	101.65	-	-	93.17	27.18	4.5	33.18	400	186	A	H
		2483.52	68.43	-5.57	74	59.85	27.24	4.53	33.17	400	186	P	H
		2483.56	50.63	-3.37	54	42.05	27.24	4.53	33.17	400	186	A	H
													H
													H
	*	2462	108.57	-	-	100.09	27.18	4.5	33.18	281	81	P	V
	*	2462	101.18	-	-	92.7	27.18	4.5	33.18	281	81	A	V
		2483.88	67.61	-6.39	74	59.03	27.24	4.53	33.17	281	81	P	V
		2483.6	50.1	-3.9	54	41.52	27.24	4.53	33.17	281	81	A	V
													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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.275	67.07	-6.93	74	58.95	26.93	4.43	33.22	374	183	P	H
		2390	49.15	-4.85	54	41.02	26.93	4.43	33.21	374	183	A	H
	*	2412	109.51	-	-	101.28	26.99	4.47	33.21	374	183	P	H
	*	2412	102.25	-	-	94.02	26.99	4.47	33.21	374	183	A	H
													H
													H
		2389.38	68.09	-5.91	74	59.97	26.93	4.43	33.22	251	90	P	V
		2390	50.29	-3.71	54	42.16	26.93	4.43	33.21	251	90	A	V
	*	2412	109.37	-	-	101.14	26.99	4.47	33.21	251	90	P	V
	*	2412	102.83	-	-	94.6	26.99	4.47	33.21	251	90	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2387.98	52.83	-21.17	74	44.71	26.93	4.43	33.22	367	187	P	H
		2389.1	42.3	-11.7	54	34.18	26.93	4.43	33.22	367	187	A	H
	*	2437	109.89	-	-	101.51	27.11	4.48	33.19	367	187	P	H
	*	2437	101.34	-	-	92.96	27.11	4.48	33.19	367	187	A	H
		2499.93	53.65	-20.35	74	45	27.3	4.53	33.16	367	187	P	H
		2499.09	43.11	-10.89	54	34.46	27.3	4.53	33.16	367	187	A	H
		2363.76	53.52	-20.48	74	45.55	26.8	4.42	33.23	262	87	P	V
		2389.66	43.82	-10.18	54	35.7	26.93	4.43	33.22	262	87	A	V
	*	2437	109.41	-	-	101.03	27.11	4.48	33.19	262	87	P	V
	*	2437	101.94	-	-	93.56	27.11	4.48	33.19	262	87	A	V
		2489.15	54.73	-19.27	74	46.09	27.3	4.53	33.17	262	87	P	V
		2499.72	44.16	-9.84	54	35.51	27.3	4.53	33.16	262	87	A	V



802.11n HT20 CH 11 2462MHz	*	2462	110	-	-	101.52	27.18	4.5	33.18	396	181	P	H
	*	2462	101.41	-	-	92.93	27.18	4.5	33.18	396	181	A	H
		2484.56	71.77	-2.23	74	63.19	27.24	4.53	33.17	396	181	P	H
		2483.52	53.15	-0.85	54	44.57	27.24	4.53	33.17	396	181	A	H
													H
													H
	*	2462	108.99	-	-	100.51	27.18	4.5	33.18	282	88	P	V
	*	2462	101.45	-	-	92.97	27.18	4.5	33.18	282	88	A	V
		2485.24	69.5	-4.5	74	60.92	27.24	4.53	33.17	282	88	P	V
		2483.72	51.13	-2.87	54	42.55	27.24	4.53	33.17	282	88	A	V
													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 (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)	Cable 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	47.62	-26.38	74	72.65	32.09	7.13	64.74	100	0	P	H
													H
													H
													H
		4824	46.97	-27.03	74	72	32.09	7.13	64.74	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	43.52	-30.48	74	68.33	32.21	7.2	64.7	100	0	P	H
		7311	49.78	-24.22	74	68.35	36.86	8.99	64.82	100	0	P	H
													H
													H
		4874	45.37	-28.63	74	70.18	32.21	7.2	64.7	100	0	P	V
		7311	48.99	-25.01	74	67.56	36.86	8.99	64.82	100	0	P	V
													V
													V
802.11n HT20 CH 11 2462MHz		4924	48.66	-25.34	74	73.28	32.33	7.24	64.66	100	0	P	H
		7386	49.67	-24.33	74	67.98	37.15	9.05	64.86	100	0	P	H
													H
													H
		4924	46.32	-27.68	74	70.94	32.33	7.24	64.66	100	0	P	V
		7386	49.42	-24.58	74	67.73	37.15	9.05	64.86	100	0	P	V
													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 HT40 (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)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.66	72.14	-1.86	74	64.02	26.93	4.43	33.22	382	192	P	H
		2389.94	53.01	-0.99	54	44.88	26.93	4.43	33.21	382	192	A	H
	*	2422	104.63	-	-	96.32	27.05	4.47	33.19	382	192	P	H
	*	2422	97.6	-	-	89.29	27.05	4.47	33.19	382	192	A	H
		2483.83	54.12	-19.88	74	45.54	27.24	4.53	33.17	382	192	P	H
		2499.16	42.04	-11.96	54	33.39	27.3	4.53	33.16	382	192	A	H
		2387.84	71.39	-2.61	74	63.27	26.93	4.43	33.22	299	91	P	V
		2389.8	52.42	-1.58	54	44.29	26.93	4.43	33.21	299	91	A	V
	*	2422	104.54	-	-	96.23	27.05	4.47	33.19	299	91	P	V
	*	2422	97.44	-	-	89.13	27.05	4.47	33.19	299	91	A	V
		2493.28	53.15	-20.85	74	44.5	27.3	4.53	33.16	299	91	P	V
		2495.73	41.93	-12.07	54	33.28	27.3	4.53	33.16	299	91	A	V
802.11n HT40 CH 06 2437MHz		2388.68	64.31	-9.69	74	56.19	26.93	4.43	33.22	400	186	P	H
		2389.94	48.74	-5.26	54	40.61	26.93	4.43	33.21	400	186	A	H
	*	2437	106.55	-	-	98.17	27.11	4.48	33.19	400	186	P	H
	*	2437	98.96	-	-	90.58	27.11	4.48	33.19	400	186	A	H
		2485.09	66.62	-7.38	74	58.04	27.24	4.53	33.17	400	186	P	H
		2484.39	49.63	-4.37	54	41.05	27.24	4.53	33.17	400	186	A	H
		2386.86	65.08	-8.92	74	56.96	26.93	4.43	33.22	288	88	P	V
		2389.52	49.4	-4.6	54	41.28	26.93	4.43	33.22	288	88	A	V
	*	2437	106.13	-	-	97.75	27.11	4.48	33.19	288	88	P	V
	*	2437	98.41	-	-	90.03	27.11	4.48	33.19	288	88	A	V
		2484.53	64.12	-9.88	74	55.54	27.24	4.53	33.17	288	88	P	V
		2483.83	49.76	-4.24	54	41.18	27.24	4.53	33.17	288	88	A	V



802.11n HT40 CH 09 2452MHz		2384.62	54.97	-19.03	74	46.91	26.87	4.43	33.22	396	183	P	H
		2389.66	41.53	-12.47	54	33.41	26.93	4.43	33.22	396	183	A	H
	*	2452	104.45	-	-	96.04	27.11	4.5	33.18	396	183	P	H
	*	2452	96.58	-	-	88.17	27.11	4.5	33.18	396	183	A	H
		2483.5	72.17	-1.83	74	63.59	27.24	4.53	33.17	396	183	P	H
		2483.5	53.2	-0.8	54	44.62	27.24	4.53	33.17	396	183	A	H
		2381.82	54.01	-19.99	74	45.95	26.87	4.43	33.22	278	91	P	V
		2389.8	41.76	-12.24	54	33.63	26.93	4.43	33.21	278	91	A	V
	*	2452	103.37	-	-	94.96	27.11	4.5	33.18	278	91	P	V
	*	2452	95.96	-	-	87.55	27.11	4.5	33.18	278	91	A	V
		2484.81	70.58	-3.42	74	62	27.24	4.53	33.17	278	91	P	V
		2484.32	52.15	-1.85	54	43.57	27.24	4.53	33.17	278	91	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (LF)

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)
2.4GHz 802.11n HT40 LF		30	22.43	-17.57	40	30.36	24.22	0.53	32.76	-	-	P	H
		126.39	18.1	-25.4	43.5	32.03	17.52	1.04	32.76	-	-	P	H
		173.91	23.47	-20.03	43.5	39.16	15.38	1.26	32.76	-	-	P	H
		624.8	29.51	-16.49	46	33.42	26.22	2.29	33	-	-	P	H
		729.1	33.74	-12.26	46	35.93	27.7	2.48	32.96	100	0	P	H
		953.1	33.58	-12.42	46	30.84	30.87	2.78	31.72	-	-	P	H
													H
													H
													H
													H
													H
													H
		31.62	24.33	-15.67	40	33.13	23.34	0.53	32.75	-	-	P	V
		142.05	21.48	-22.02	43.5	35.5	17.28	1.12	32.76	-	-	P	V
		168.78	22.7	-20.8	43.5	37.96	15.82	1.26	32.76	-	-	P	V
		479.9	26.39	-19.61	46	33.11	23.62	2.05	32.86	-	-	P	V
		615.7	34.31	-11.69	46	38.43	26.01	2.29	33	100	0	P	V
		834.1	30.19	-15.81	46	30.76	28.82	2.65	32.69	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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

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		(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. 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”.



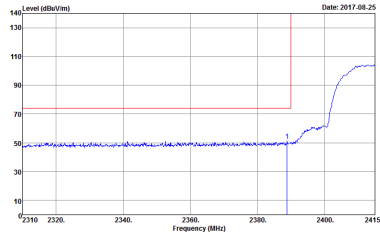
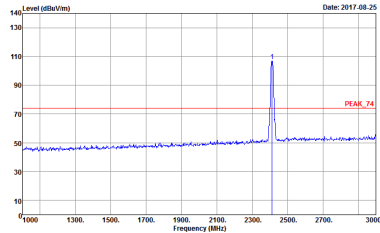
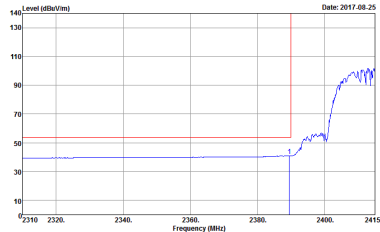
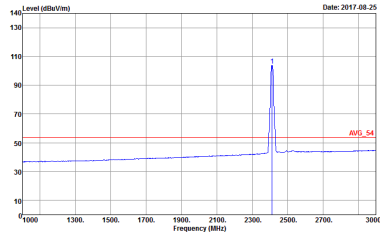
Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Tsung Li, Stan Hsieh and Kyle Chuang	Temperature :	24~26°C
		Relative Humidity :	45~47%

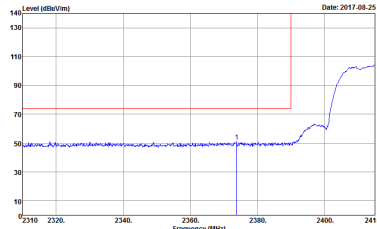
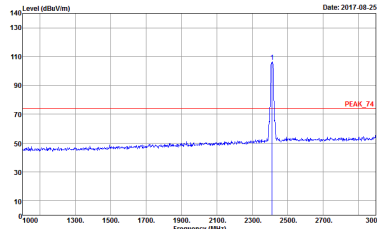
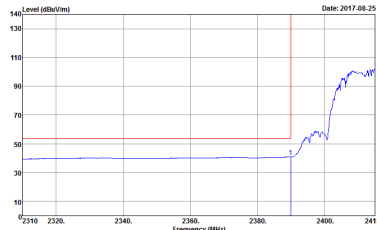
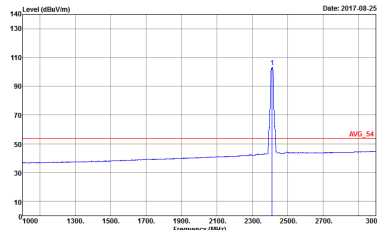
Note symbol

-L	Low channel location
-R	High channel location

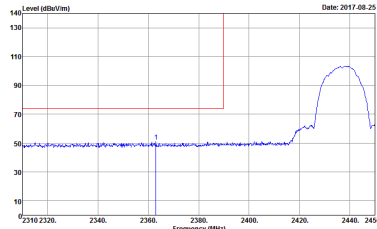
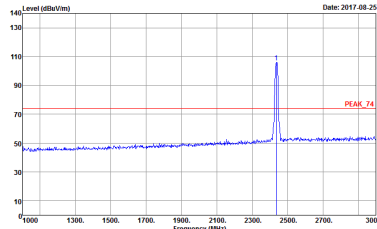
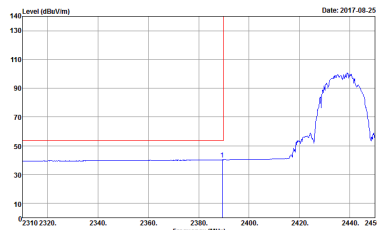
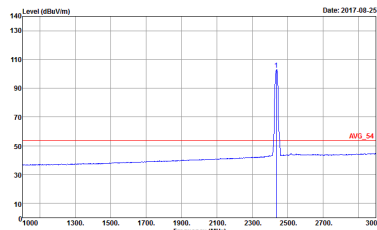
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 1	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 1
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 1	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 1



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017-08-25	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017-08-25
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017-08-25	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017-08-25

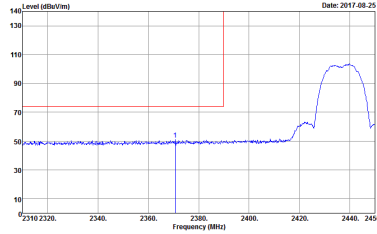
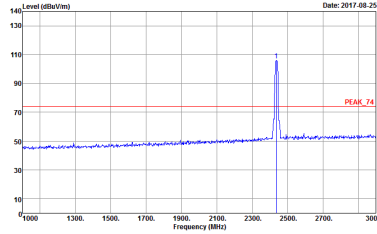
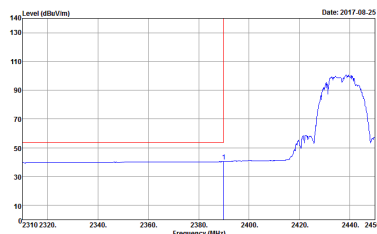
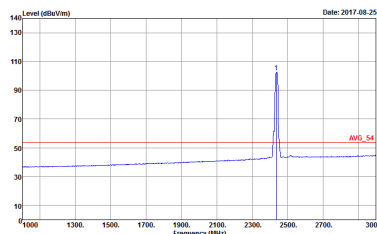


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2

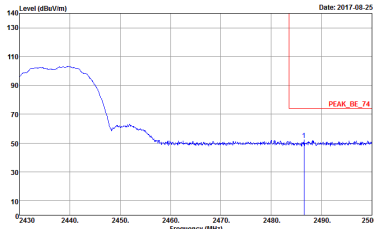
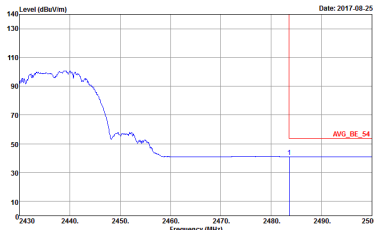


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2	Left blank
Avg.	Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2	Left blank



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2

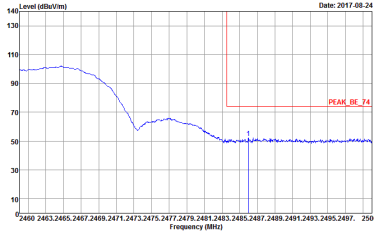
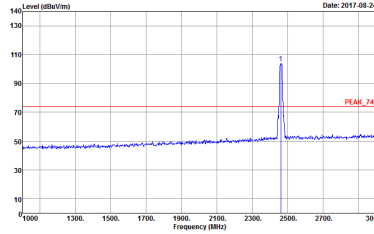
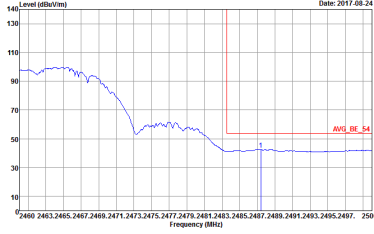
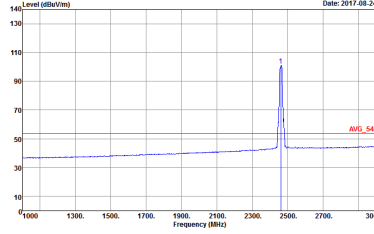


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 2	Left blank

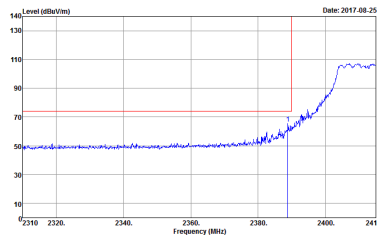
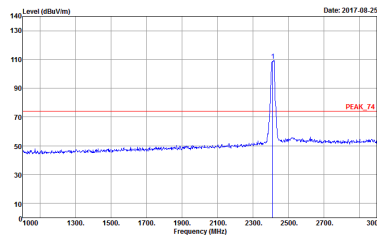
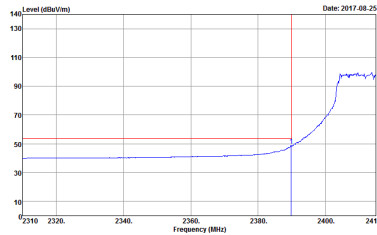
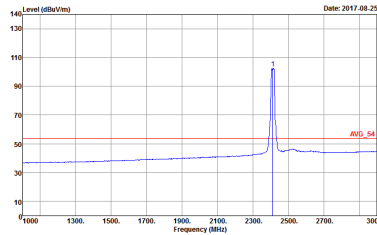


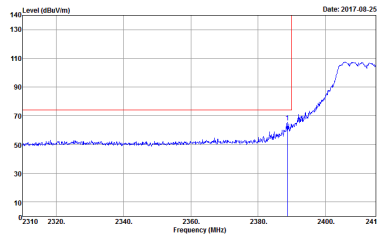
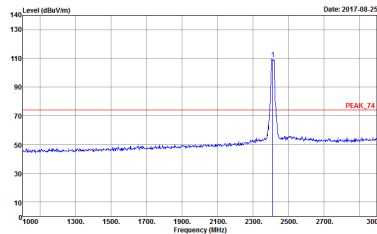
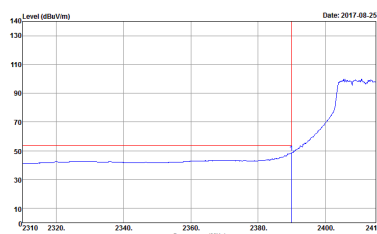
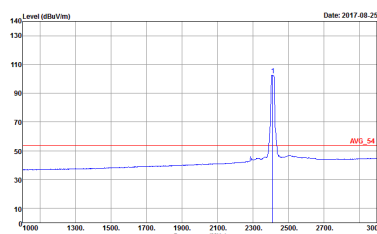
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 3	Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 3
Avg.	Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 3	Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 3

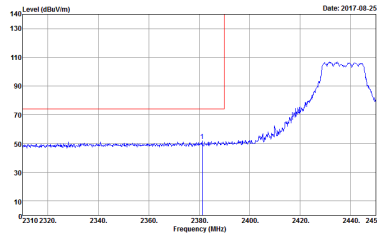
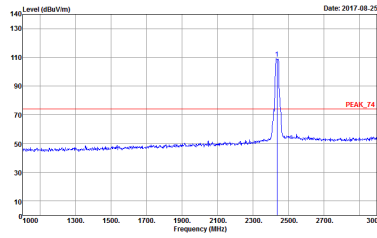
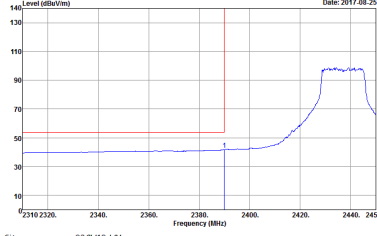
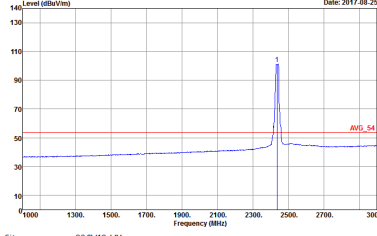


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 3	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 3
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 3	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 3

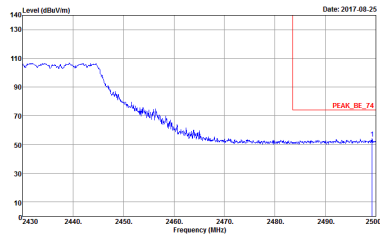
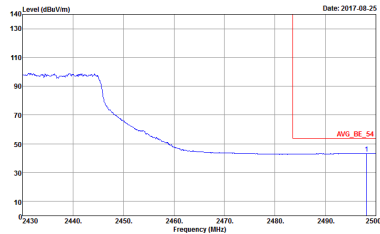
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

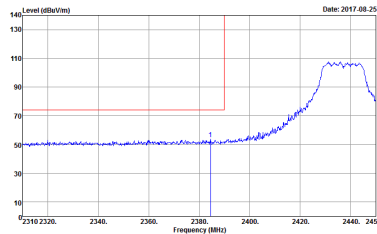
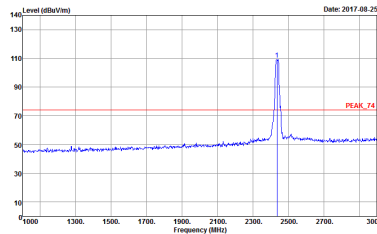
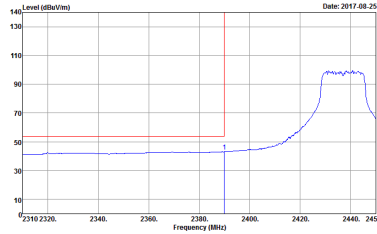
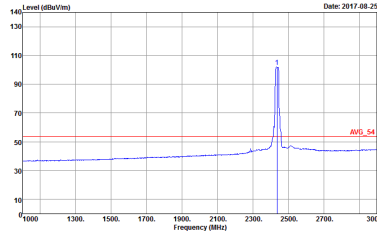
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 4	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 4
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 4	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 4

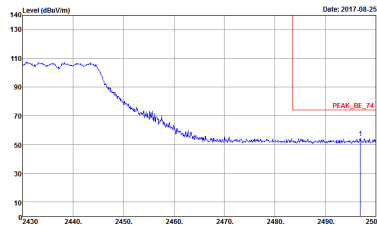
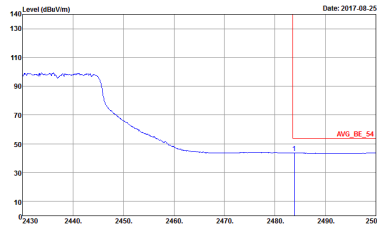
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 : 4	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 : 4
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 : 4	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 : 4

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 5	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 5
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 5	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 5



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 5	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 5	Left blank

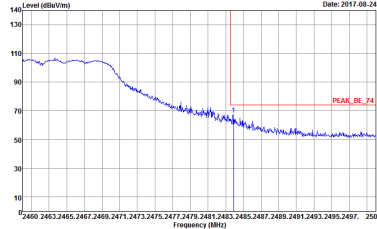
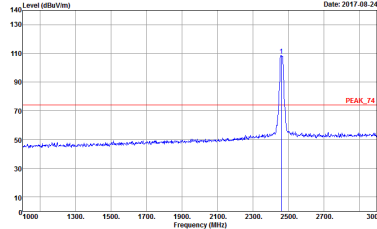
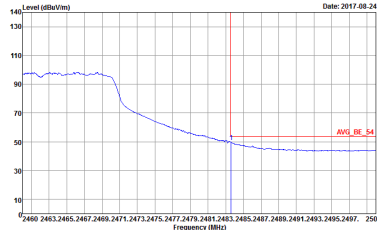
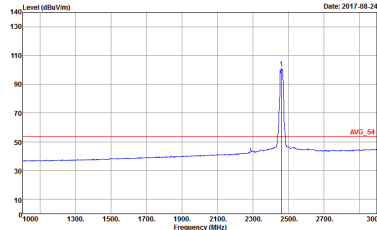
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 5	Left Blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 5	Left Blank

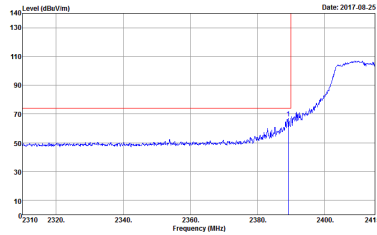
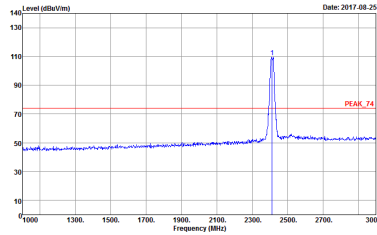
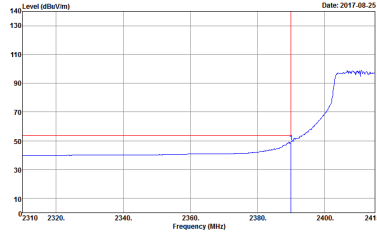
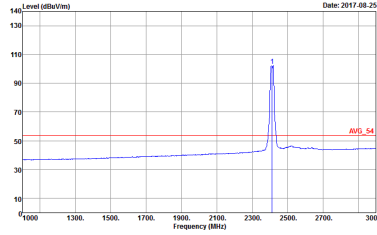


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305	Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305
Avg.	Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305	Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305

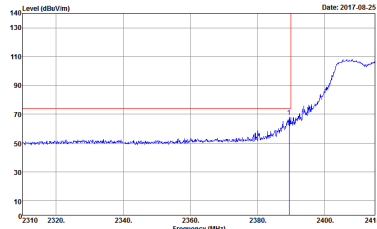
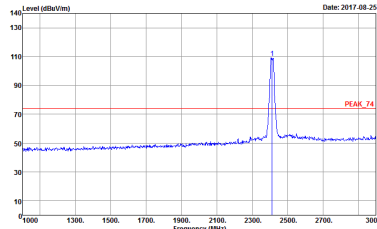
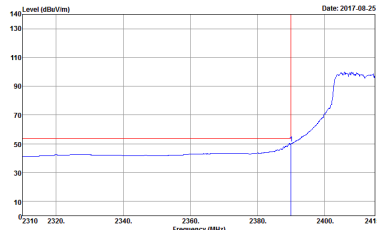
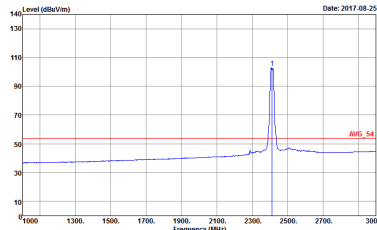


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017-08-24	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017-08-24
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017-08-24	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017-08-24

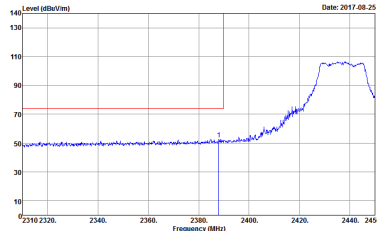
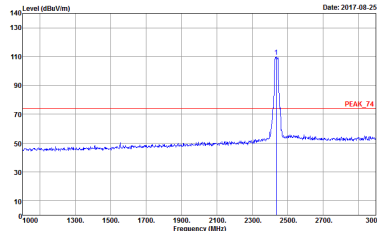
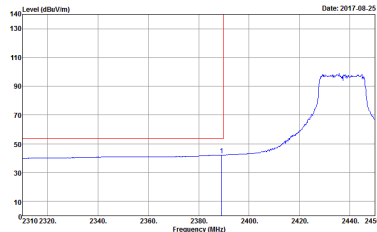
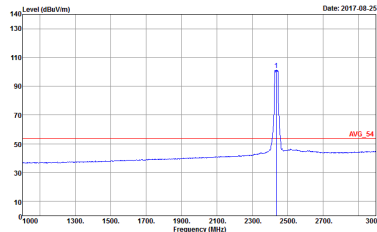
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Band Edge @ 3m)

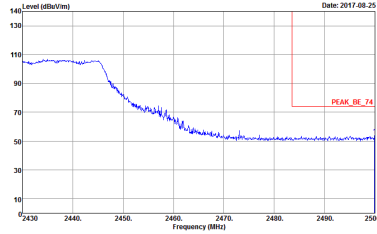
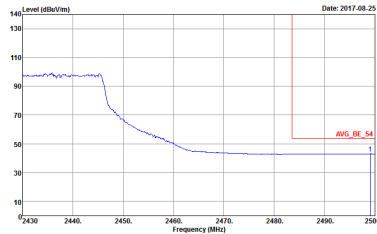
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7	 Site : 03CH10-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7



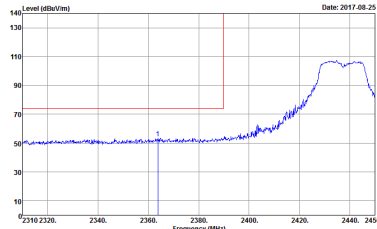
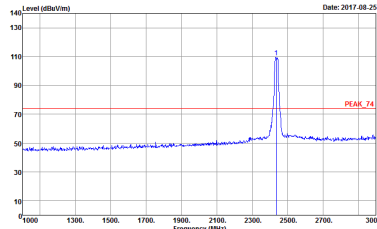
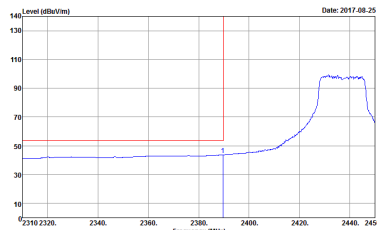
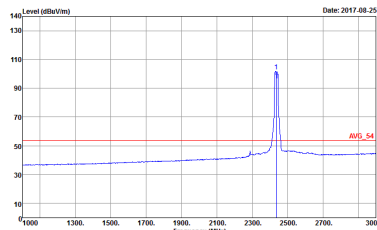
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 7



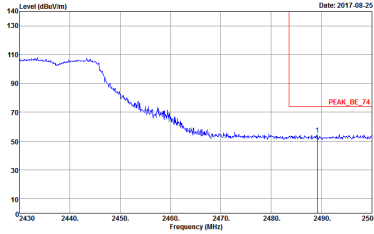
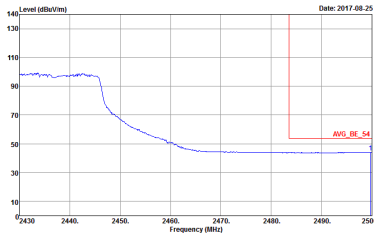
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 8	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 8
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 8	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 8

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 8	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 8	Left blank

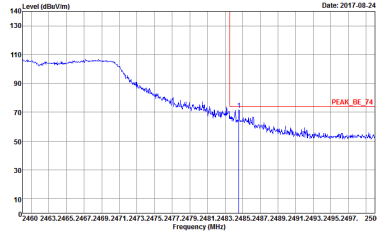
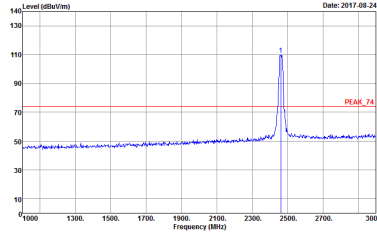
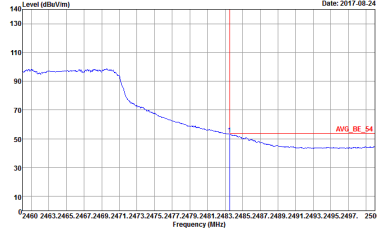
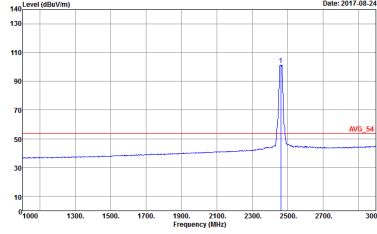


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 8	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 8
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 8	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 8

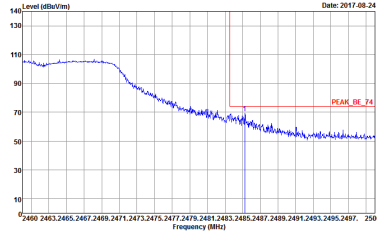
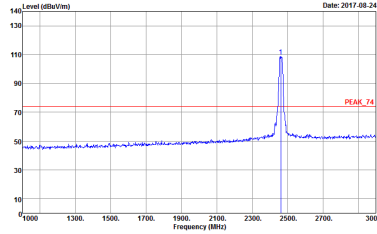
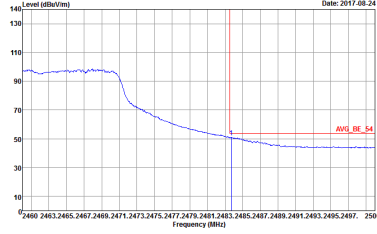
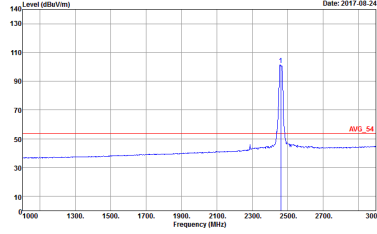


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 8	Left Blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 8	Left Blank



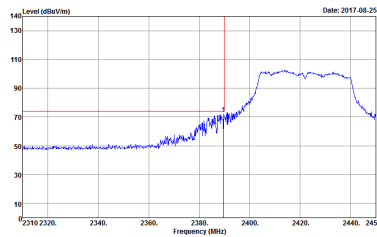
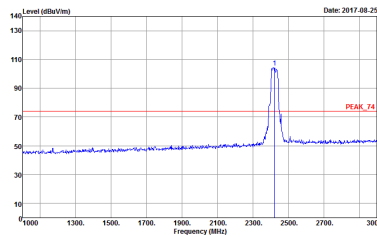
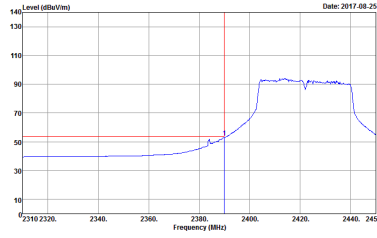
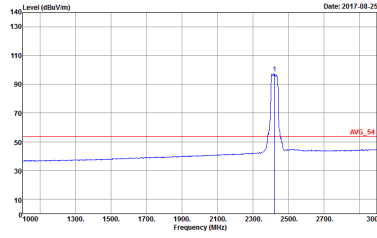
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 9	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 9
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 9	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 9



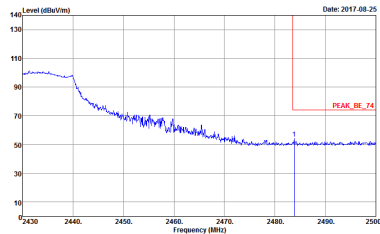
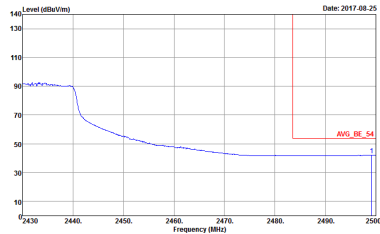
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 9	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 9
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 9	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 9

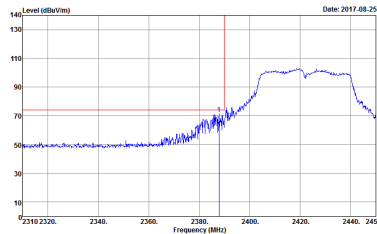
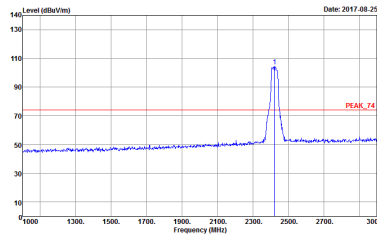
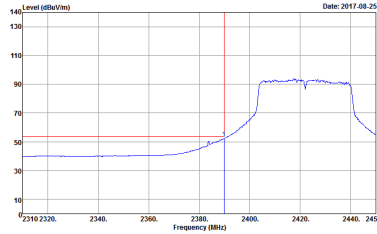
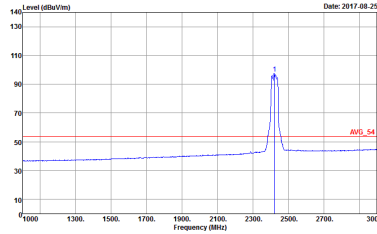
2.4GHz 2400~2483.5MHz

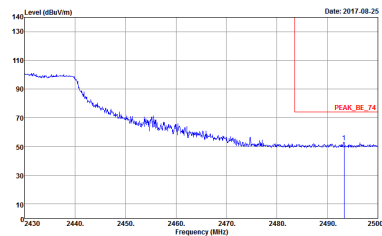
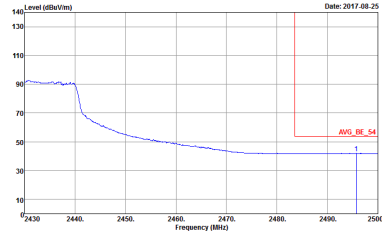
WIFI 802.11n HT40 (Band Edge @ 3m)

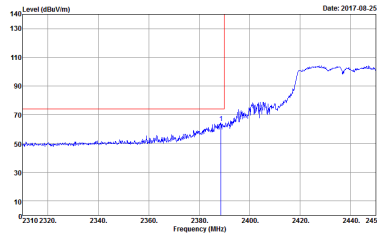
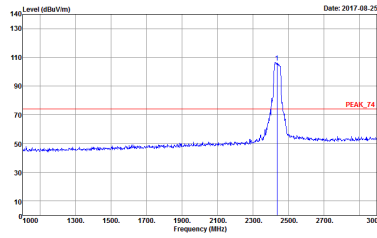
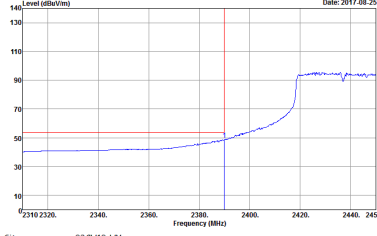
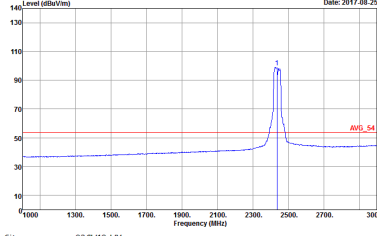
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 10	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 10
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 10	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 10



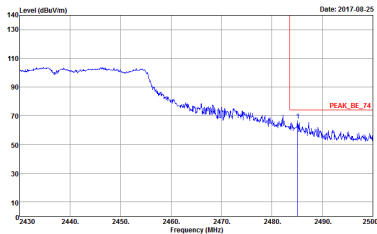
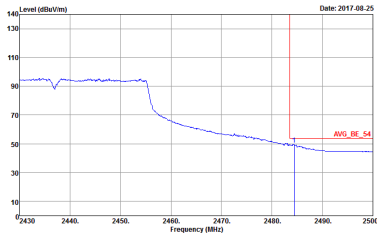
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 10	Left Blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 10	Left Blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25

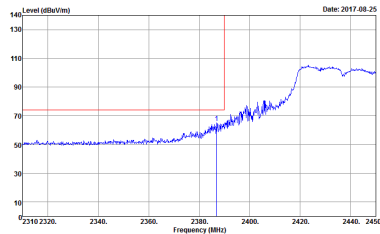
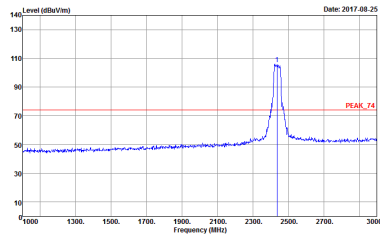
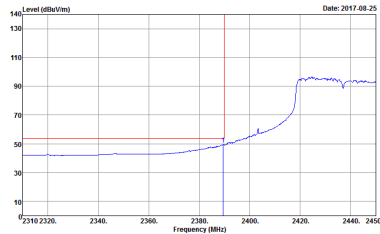
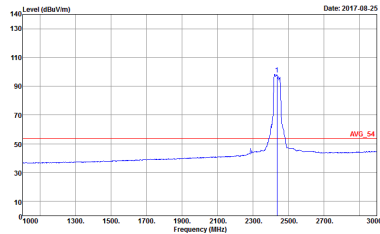
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 10	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 10	Left blank

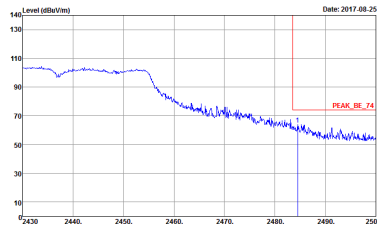
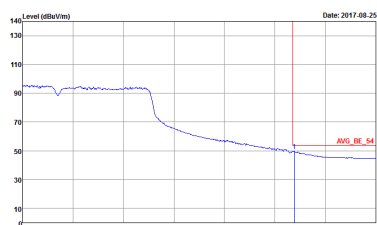
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25



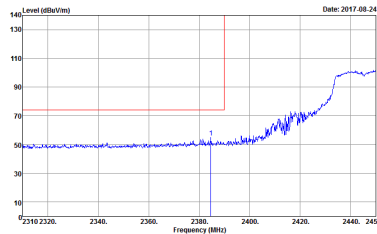
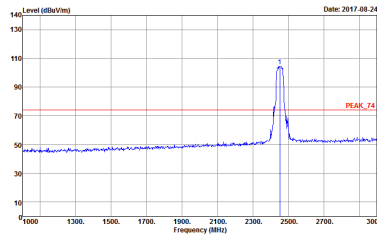
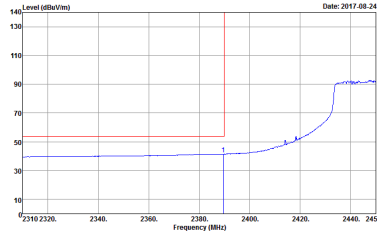
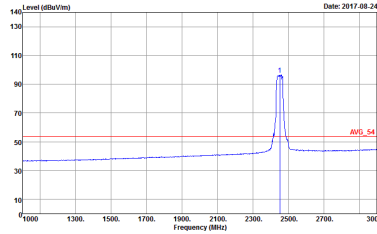
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25	Left blank

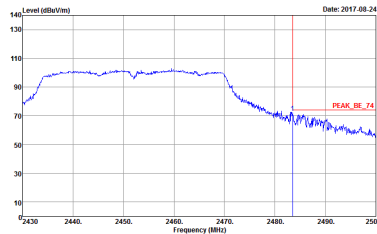
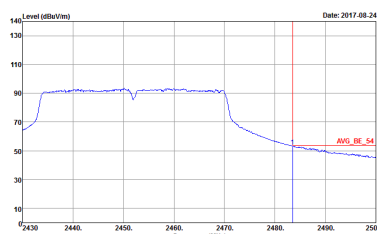


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.25

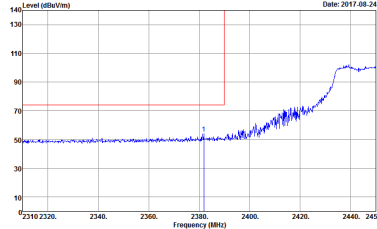
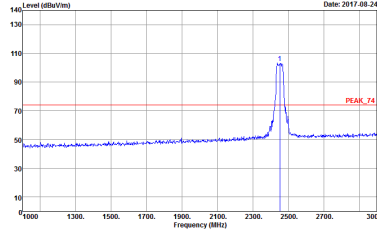
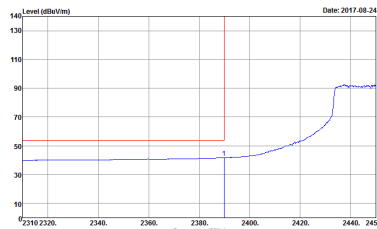
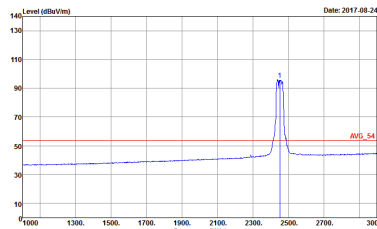
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 752305 Mode : 11	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 752305 Mode : 11	Left blank



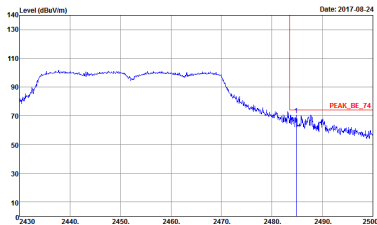
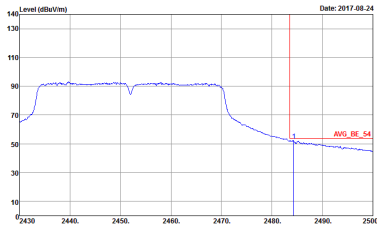
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.24	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.24
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.24	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.24

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 : 12	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 : 12	Left blank

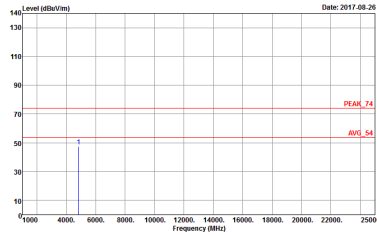
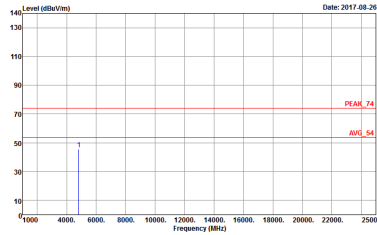


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.24	 Site : 03CH10-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.24
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.24	 Site : 03CH10-HY Condition : AVG_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.24

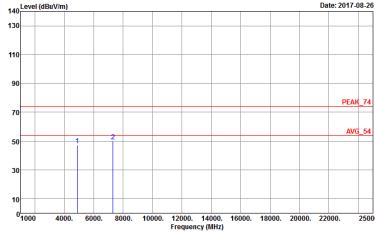
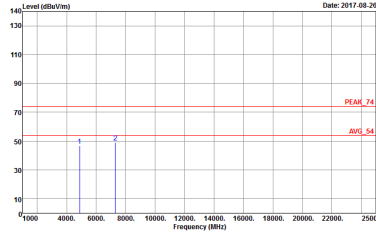


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH10-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.24	Left blank
Avg.	 Site : 03CH10-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Peak Mode : 752305 Date: 2017.08.24	Left blank

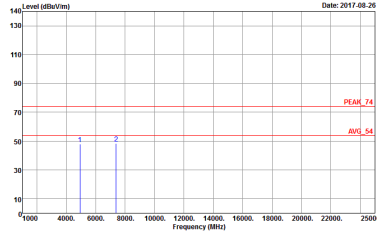
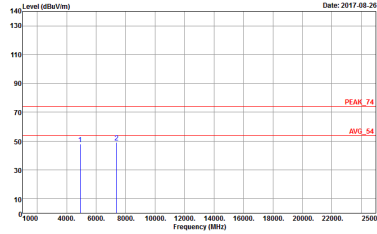
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-4FY Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 752305 Mode : 1	 Site : 03CH10-4FY Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 752305 Mode : 1



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-IY Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 752305 Mode : 2	 Site : 03CH10-IY Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 752305 Mode : 2



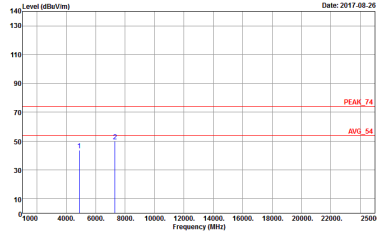
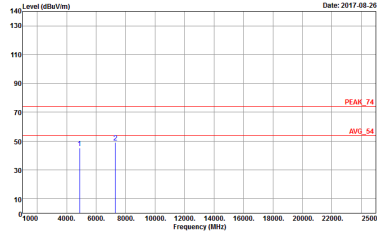
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-IY Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 752305 Mode : 3	 Site : 03CH10-IY Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 752305 Mode : 3



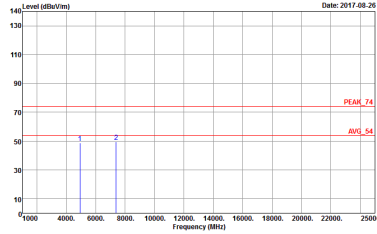
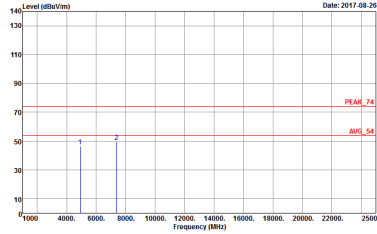
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH10-4FY Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 752305 Mode : 7	Site : 03CH10-4FY Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 752305 Mode : 7

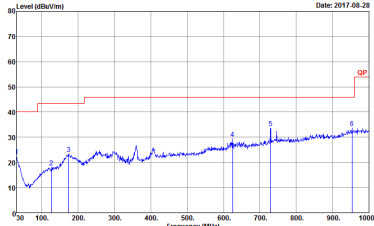


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-I-VY Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 752305 Mode : S	 Site : 03CH10-I-VY Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 752305 Mode : S

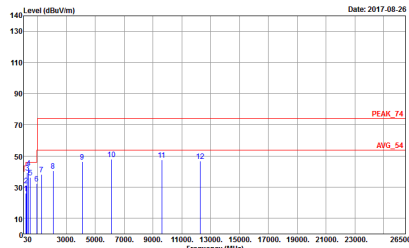
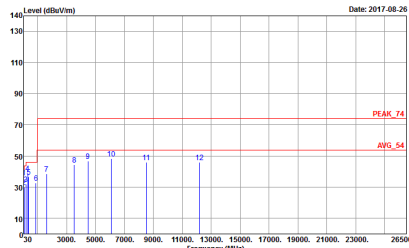


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH10-IY Condition : PEAK_74 3m HORN_9170_406_0584 HORIZONTAL Detector : Peak Project : 752305 Mode : 9	 Site : 03CH10-IY Condition : PEAK_74 3m HORN_9170_406_0584 VERTICAL Detector : Peak Project : 752305 Mode : 9

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 : 03CH10-HY Condition : QP 3m BT-LOG 6111D-LF HORIZONTAL Detector : Peak Project : 752305 Mode : 13	 Site : 03CH10-HY Condition : QP 3m BT-LOG 6111D-LF VERTICAL Detector : Peak Project : 752305 Mode : 13

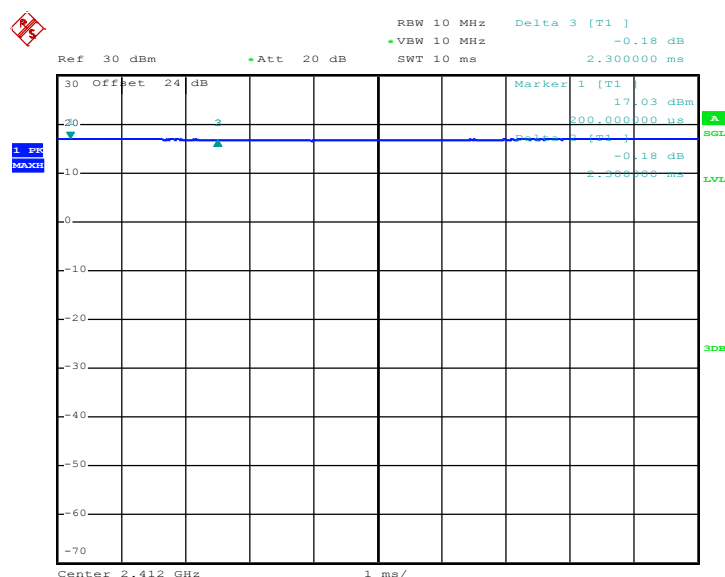


ANT	2.4GHz WLAN Idle																																																																																																																																																																																																																																																																																																
1	Horizontal					Vertical																																																																																																																																																																																																																																																																																											
Peak Avg.																																																																																																																																																																																																																																																																																																	
	Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 752305 Mode : 14 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>190.92</td><td>26.22</td><td>-17.28</td><td>43.50</td><td>42.38</td><td>14.80</td><td>1.39</td><td>32.75</td><td>--- Peak</td></tr><tr><td>2</td><td>231.96</td><td>31.14</td><td>-14.86</td><td>46.00</td><td>45.65</td><td>16.34</td><td>1.48</td><td>32.74</td><td>--- Peak</td></tr><tr><td>3</td><td>299.73</td><td>39.38</td><td>-6.62</td><td>46.00</td><td>50.85</td><td>19.20</td><td>1.65</td><td>32.71</td><td>--- Peak</td></tr><tr><td>4</td><td>378.40</td><td>42.68</td><td>-3.32</td><td>46.00</td><td>52.13</td><td>21.08</td><td>1.81</td><td>32.75</td><td>100 Peak</td></tr><tr><td>5</td><td>501.60</td><td>36.08</td><td>-9.52</td><td>46.00</td><td>42.47</td><td>23.92</td><td>2.00</td><td>32.88</td><td>--- Peak</td></tr><tr><td>6</td><td>953.10</td><td>32.24</td><td>-13.76</td><td>46.00</td><td>29.50</td><td>30.87</td><td>2.78</td><td>31.72</td><td>--- Peak</td></tr><tr><td>7</td><td>1282.00</td><td>38.08</td><td>-35.92</td><td>74.00</td><td>45.78</td><td>23.98</td><td>3.20</td><td>35.02</td><td>--- Peak</td></tr><tr><td>8</td><td>2080.00</td><td>40.39</td><td>-33.61</td><td>74.00</td><td>43.60</td><td>25.81</td><td>4.13</td><td>33.36</td><td>--- Peak</td></tr><tr><td>9</td><td>4102.00</td><td>46.33</td><td>-27.67</td><td>74.00</td><td>42.42</td><td>30.34</td><td>5.89</td><td>32.68</td><td>--- Peak</td></tr><tr><td>10</td><td>6136.00</td><td>48.08</td><td>-25.92</td><td>74.00</td><td>39.41</td><td>33.70</td><td>7.20</td><td>32.83</td><td>100 Peak</td></tr><tr><td>11</td><td>9615.00</td><td>47.55</td><td>-26.45</td><td>74.00</td><td>62.97</td><td>38.50</td><td>10.37</td><td>65.20</td><td>--- Peak</td></tr><tr><td>12</td><td>12294.00</td><td>46.83</td><td>-27.17</td><td>74.00</td><td>60.95</td><td>38.69</td><td>11.89</td><td>65.26</td><td>--- Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	190.92	26.22	-17.28	43.50	42.38	14.80	1.39	32.75	--- Peak	2	231.96	31.14	-14.86	46.00	45.65	16.34	1.48	32.74	--- Peak	3	299.73	39.38	-6.62	46.00	50.85	19.20	1.65	32.71	--- Peak	4	378.40	42.68	-3.32	46.00	52.13	21.08	1.81	32.75	100 Peak	5	501.60	36.08	-9.52	46.00	42.47	23.92	2.00	32.88	--- Peak	6	953.10	32.24	-13.76	46.00	29.50	30.87	2.78	31.72	--- Peak	7	1282.00	38.08	-35.92	74.00	45.78	23.98	3.20	35.02	--- Peak	8	2080.00	40.39	-33.61	74.00	43.60	25.81	4.13	33.36	--- Peak	9	4102.00	46.33	-27.67	74.00	42.42	30.34	5.89	32.68	--- Peak	10	6136.00	48.08	-25.92	74.00	39.41	33.70	7.20	32.83	100 Peak	11	9615.00	47.55	-26.45	74.00	62.97	38.50	10.37	65.20	--- Peak	12	12294.00	46.83	-27.17	74.00	60.95	38.69	11.89	65.26	--- Peak	Site : 03CH10-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 752305 Mode : 14 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>30.27</td><td>36.38</td><td>-3.62</td><td>40.00</td><td>44.31</td><td>24.22</td><td>0.53</td><td>32.76</td><td>100 Peak</td></tr><tr><td>2</td><td>65.91</td><td>30.01</td><td>-9.99</td><td>40.00</td><td>49.85</td><td>11.98</td><td>0.77</td><td>32.75</td><td>--- Peak</td></tr><tr><td>3</td><td>177.69</td><td>31.95</td><td>-11.55</td><td>43.50</td><td>47.86</td><td>15.15</td><td>1.26</td><td>32.75</td><td>--- Peak</td></tr><tr><td>4</td><td>316.10</td><td>39.01</td><td>-6.99</td><td>46.00</td><td>50.25</td><td>19.39</td><td>1.69</td><td>32.72</td><td>--- Peak</td></tr><tr><td>5</td><td>381.20</td><td>36.58</td><td>-9.42</td><td>46.00</td><td>45.93</td><td>21.15</td><td>1.84</td><td>32.75</td><td>--- Peak</td></tr><tr><td>6</td><td>886.60</td><td>32.84</td><td>-13.16</td><td>46.00</td><td>32.65</td><td>29.12</td><td>2.74</td><td>32.37</td><td>--- Peak</td></tr><tr><td>7</td><td>1624.00</td><td>38.51</td><td>-35.49</td><td>74.00</td><td>44.16</td><td>24.47</td><td>3.64</td><td>33.92</td><td>--- Peak</td></tr><tr><td>8</td><td>2532.00</td><td>44.47</td><td>-29.53</td><td>74.00</td><td>42.86</td><td>28.70</td><td>5.48</td><td>32.88</td><td>--- Peak</td></tr><tr><td>9</td><td>4480.00</td><td>46.75</td><td>-27.25</td><td>74.00</td><td>41.56</td><td>31.26</td><td>6.15</td><td>32.61</td><td>--- Peak</td></tr><tr><td>10</td><td>6082.00</td><td>48.48</td><td>-25.52</td><td>74.00</td><td>39.92</td><td>33.55</td><td>7.19</td><td>32.79</td><td>100 Peak</td></tr><tr><td>11</td><td>8530.00</td><td>46.08</td><td>-27.92</td><td>74.00</td><td>63.63</td><td>36.99</td><td>9.80</td><td>65.01</td><td>--- Peak</td></tr><tr><td>12</td><td>12180.00</td><td>46.19</td><td>-27.81</td><td>74.00</td><td>60.00</td><td>39.08</td><td>11.82</td><td>65.24</td><td>--- Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	cm	deg		1	30.27	36.38	-3.62	40.00	44.31	24.22	0.53	32.76	100 Peak	2	65.91	30.01	-9.99	40.00	49.85	11.98	0.77	32.75	--- Peak	3	177.69	31.95	-11.55	43.50	47.86	15.15	1.26	32.75	--- Peak	4	316.10	39.01	-6.99	46.00	50.25	19.39	1.69	32.72	--- Peak	5	381.20	36.58	-9.42	46.00	45.93	21.15	1.84	32.75	--- Peak	6	886.60	32.84	-13.16	46.00	32.65	29.12	2.74	32.37	--- Peak	7	1624.00	38.51	-35.49	74.00	44.16	24.47	3.64	33.92	--- Peak	8	2532.00	44.47	-29.53	74.00	42.86	28.70	5.48	32.88	--- Peak	9	4480.00	46.75	-27.25	74.00	41.56	31.26	6.15	32.61	--- Peak	10	6082.00	48.48	-25.52	74.00	39.92	33.55	7.19	32.79	100 Peak	11	8530.00	46.08	-27.92	74.00	63.63	36.99	9.80	65.01	--- Peak	12	12180.00	46.19	-27.81	74.00	60.00	39.08	11.82	65.24
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																																																																																																																																																																																																								
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3	299.73	39.38	-6.62	46.00	50.85	19.20	1.65	32.71	--- Peak																																																																																																																																																																																																																																																																																								
4	378.40	42.68	-3.32	46.00	52.13	21.08	1.81	32.75	100 Peak																																																																																																																																																																																																																																																																																								
5	501.60	36.08	-9.52	46.00	42.47	23.92	2.00	32.88	--- Peak																																																																																																																																																																																																																																																																																								
6	953.10	32.24	-13.76	46.00	29.50	30.87	2.78	31.72	--- Peak																																																																																																																																																																																																																																																																																								
7	1282.00	38.08	-35.92	74.00	45.78	23.98	3.20	35.02	--- Peak																																																																																																																																																																																																																																																																																								
8	2080.00	40.39	-33.61	74.00	43.60	25.81	4.13	33.36	--- Peak																																																																																																																																																																																																																																																																																								
9	4102.00	46.33	-27.67	74.00	42.42	30.34	5.89	32.68	--- Peak																																																																																																																																																																																																																																																																																								
10	6136.00	48.08	-25.92	74.00	39.41	33.70	7.20	32.83	100 Peak																																																																																																																																																																																																																																																																																								
11	9615.00	47.55	-26.45	74.00	62.97	38.50	10.37	65.20	--- Peak																																																																																																																																																																																																																																																																																								
12	12294.00	46.83	-27.17	74.00	60.95	38.69	11.89	65.26	--- Peak																																																																																																																																																																																																																																																																																								
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9	4480.00	46.75	-27.25	74.00	41.56	31.26	6.15	32.61	--- Peak																																																																																																																																																																																																																																																																																								
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12	12180.00	46.19	-27.81	74.00	60.00	39.08	11.82	65.24	--- Peak																																																																																																																																																																																																																																																																																								

Appendix E. Duty Cycle Plots

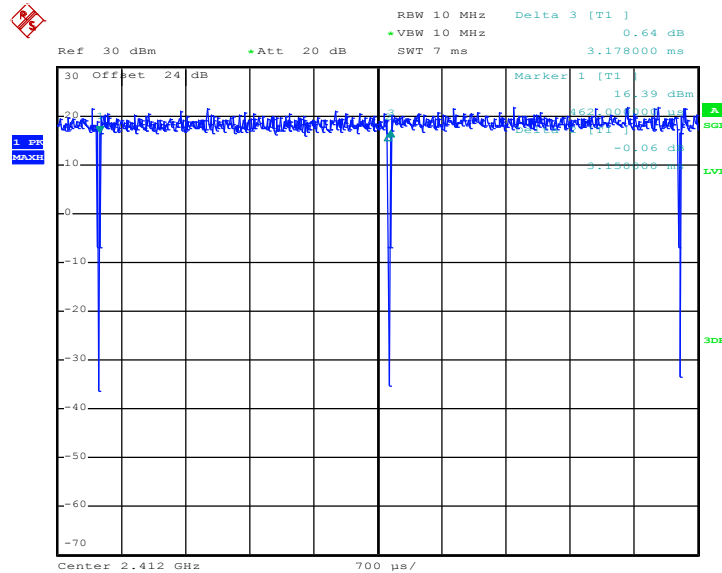
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11b	100.00	-	-	10Hz
802.11g	99.12	-	-	10Hz
2.4GHz 802.11n HT20	98.92	-	-	10Hz
2.4GHz 802.11n HT40	98.34	-	-	10Hz

802.11b



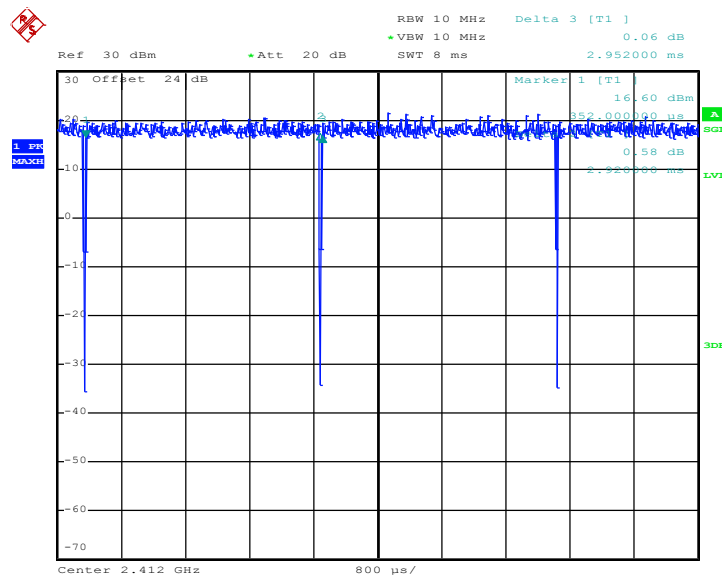
Date: 18.AUG.2017 15:16:08

802.11g



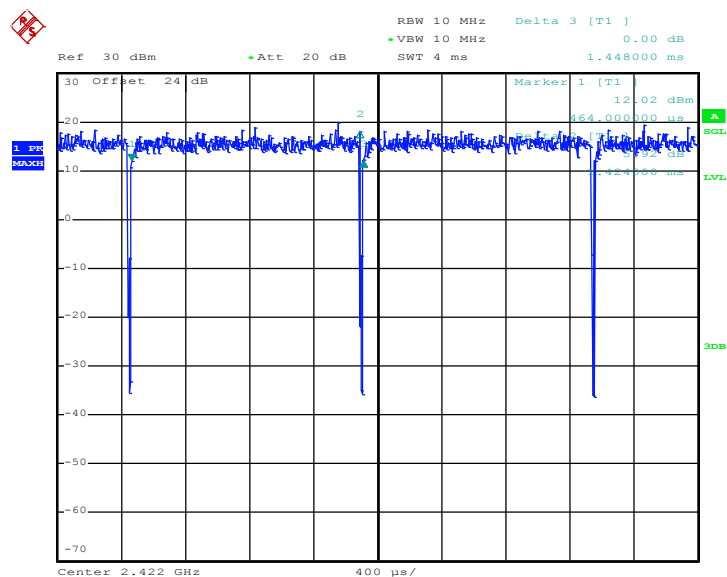
Date: 18.AUG.2017 15:18:52

802.11n HT20



Date: 18.AUG.2017 15:20:19

802.11n HT40



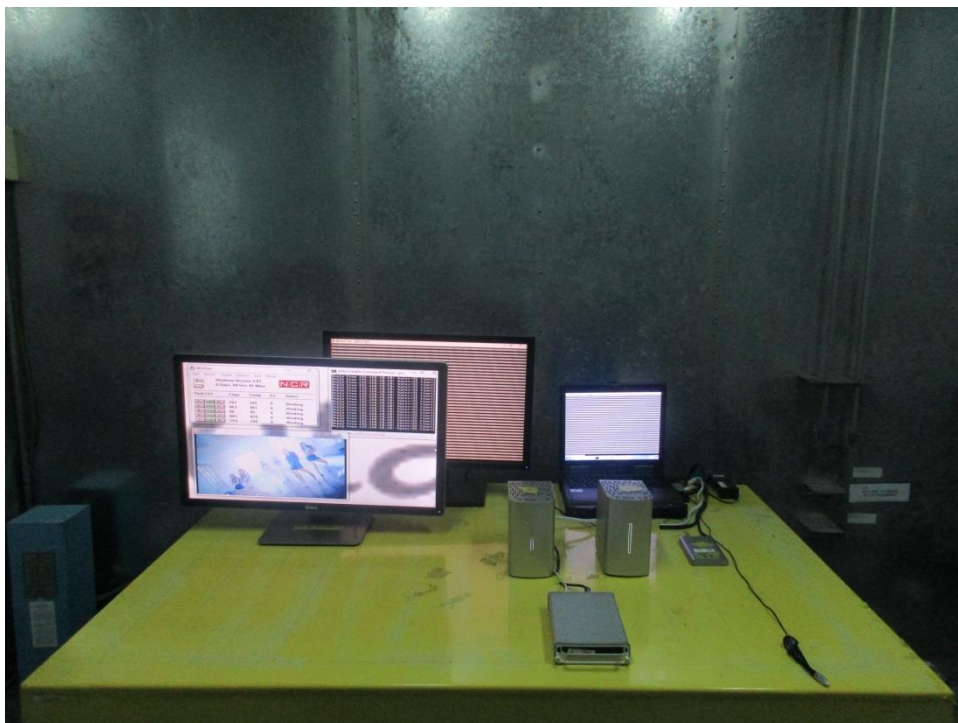
Date: 18.AUG.2017 15:23:19

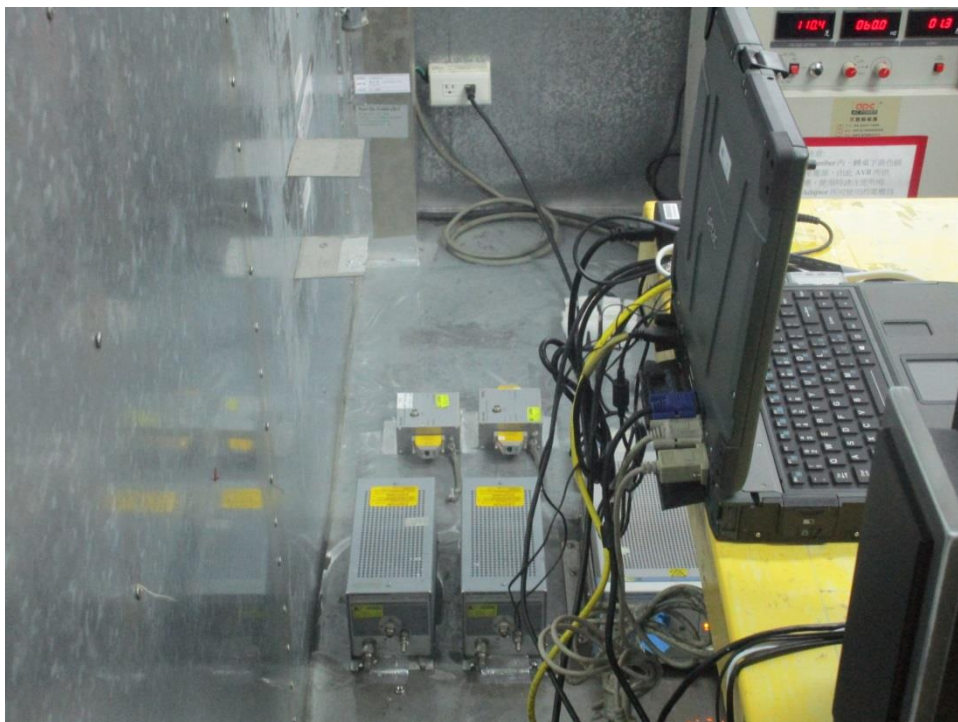
Appendix F. Setup Photographs

<Conducted Emission>

Mode 4

Remote View





Rear View

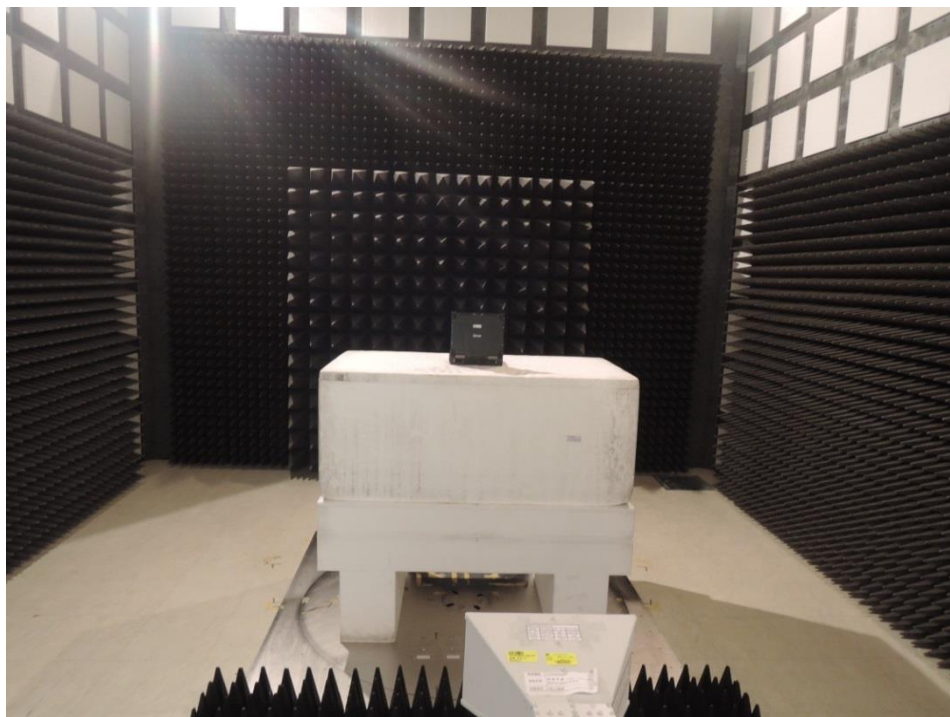


<Radiated Emission>

LF



HF



<Receiver Radiated Emission>

LF



HF

