

FCC RF Test Report

APPLICANT : D-Link Corporation
EQUIPMENT : 4G LTE Router
BRAND NAME : D-Link
MODEL NAME : DWR-922
FCC ID : KA2WR922C2
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Feb. 09, 2017 and testing was completed on Apr. 14, 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.

SPORTON INTERNATIONAL INC.

TEL : 886-3-327-3456

FAX : 886-3-328-4978

FCC ID : KA2WR922C2

Page Number : 1 of 51

Report Issued Date : Apr. 19, 2017

Report Version : Rev. 01

Report Template No.: BU5-FR15CWL MA Version 2.0



TABLE OF CONTENTS

REVISION HISTORY.....	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Applicant	5
1.2 Manufacturer	5
1.3 Product Feature of Equipment Under Test.....	5
1.4 Modification of EUT	5
1.5 Testing Location	6
1.6 Applicable Standards.....	7
2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST	8
2.1 Carrier Frequency and Channel	8
2.2 Test Mode.....	9
2.3 Connection Diagram of Test System.....	10
2.4 Support Unit used in test configuration and system	11
2.5 EUT Operation Test Setup	11
2.6 Measurement Results Explanation Example.....	11
3 TEST RESULT	12
3.1 6dB and 99% Bandwidth Measurement	12
3.2 Peak Output Power Measurement	14
3.3 Power Spectral Density Measurement	15
3.4 Conducted Band Edges and Spurious Emission Measurement	18
3.5 Radiated Band Edges and Spurious Emission Measurement	43
3.6 AC Conducted Emission Measurement.....	47
3.7 Antenna Requirements.....	49
4 LIST OF MEASURING EQUIPMENT	50
5 UNCERTAINTY OF EVALUATION	51
APPENDIX A. CONDUCTED TEST RESULTS	
APPENDIX B. AC CONDUCTED EMISSION TEST RESULT	
APPENDIX C. RADIATED SPURIOUS EMISSION	
APPENDIX D. RADIATED SPURIOUS EMISSION PLOTS	
APPENDIX E. DUTY CYCLE PLOTS	
APPENDIX F. SETUP PHOTOGRAPHS	



REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR720930	Rev. 01	Initial issue of report	Apr. 19, 2017

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Pass	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 0.10 dB at 2390.000 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 8.50 dB at 0.270 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

D-Link Corporation

No. 289, Sinhu 3rd Rd, Neihu District Taipei City 114 Taiwan

1.2 Manufacturer

Advance Multimedia Internet Technology Inc.

No. 28, Lane 31, Sec. 1, Huandong Rd., Sinshih District, Tainan City 74146, Taiwan (R.O.C.)

1.3 Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Wi-Fi 2.4GHz 802.11b/g/n.

Product Specification subjective to this standard	
Antenna Type	WWAN: Dipole Antenna WLAN: PIFA Antenna

1.4 Modification of EUT

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

1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. 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.	
	03CH12-HY	

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



1.6 Applicable Standards

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

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

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

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

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

2.2 Test Mode

Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

Single Antenna

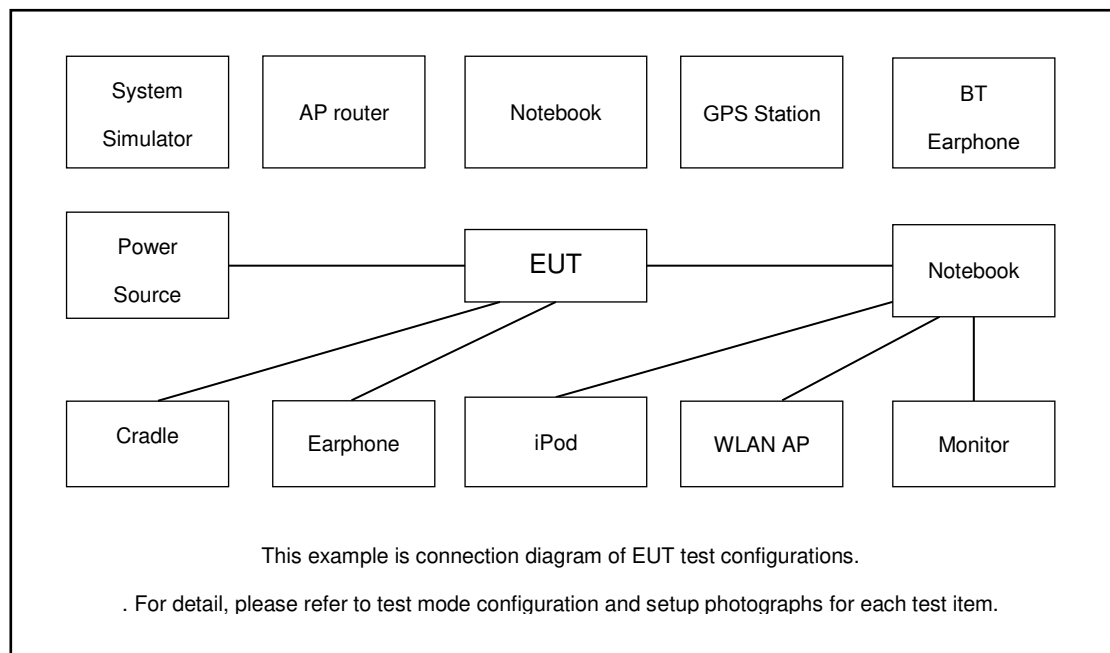
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0

MIMO Antenna

Modulation	Data Rate
802.11n HT20	MCS0
802.11n HT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :WCDMA Band II Idle + WLAN Link + RJ-45 Link (LAN) + RJ-45 Link (WAN) + RJ-11 (Load) + Adapter

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	Notebook	DELL	Latitude E6320	FCC DoC/ Contains FCC ID: QDS-BRCM1054	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
3.	Notebook	DELL	P20G	FCC DoC/ Contains FCC ID: QDS-BRCM1051	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	LCD Monitor	DELL	U2410	FCC DoC	Shielded, 1.6 m	Unshielded, 1.8 m
5.	iPod	Apple	A1285	FCC DoC	Shielded, 1.0 m	N/A
6.	Phone	SAMPO	HT-B907WL	Verification	N/A	N/A

2.5 EUT Operation Test Setup

The RF test items, programmed RF utility, "TOOL MT7620QA" 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.

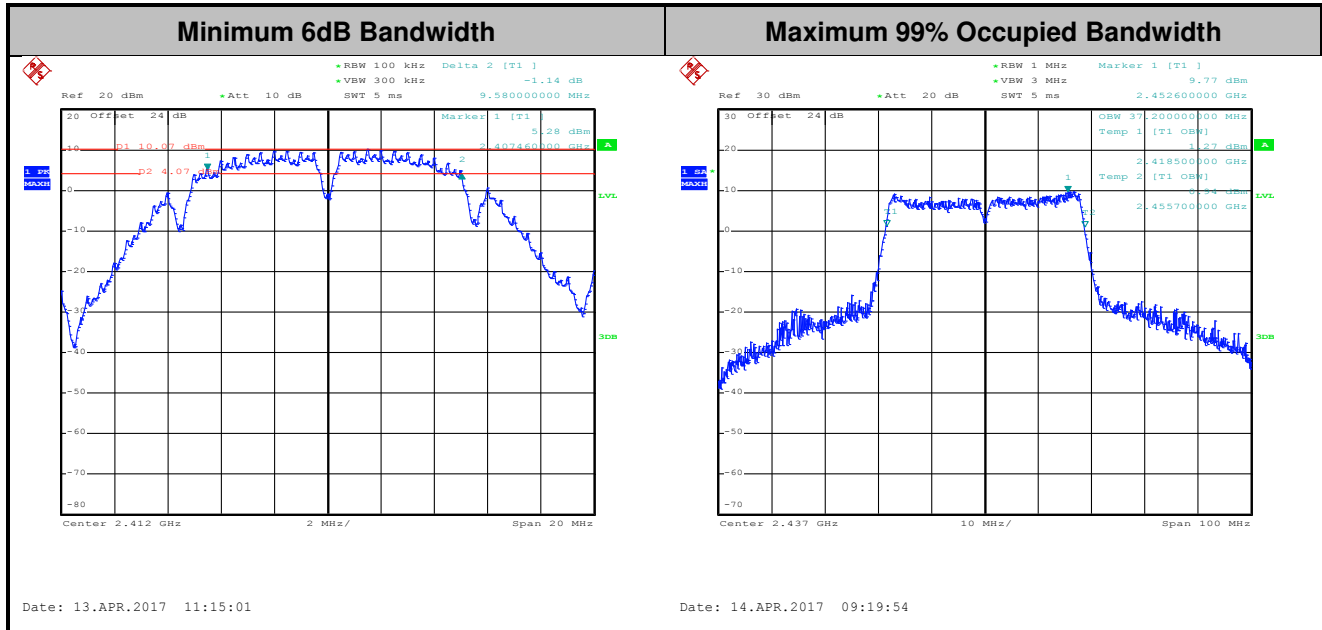
3.1.4 Test Setup





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.

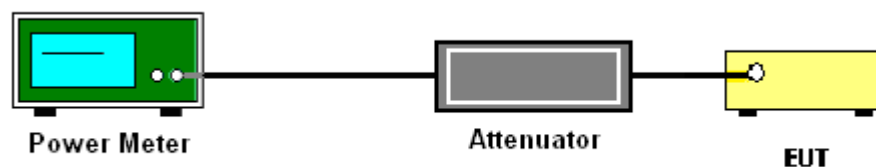
3.2.2 Measuring Instruments

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.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

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.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

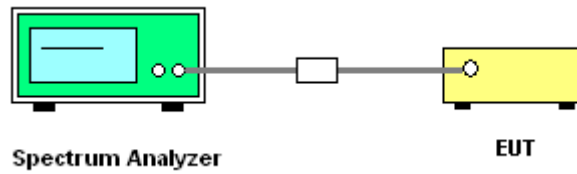
If measurements performed using method (2) plus $10 \log(N)$ exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

Method (1): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

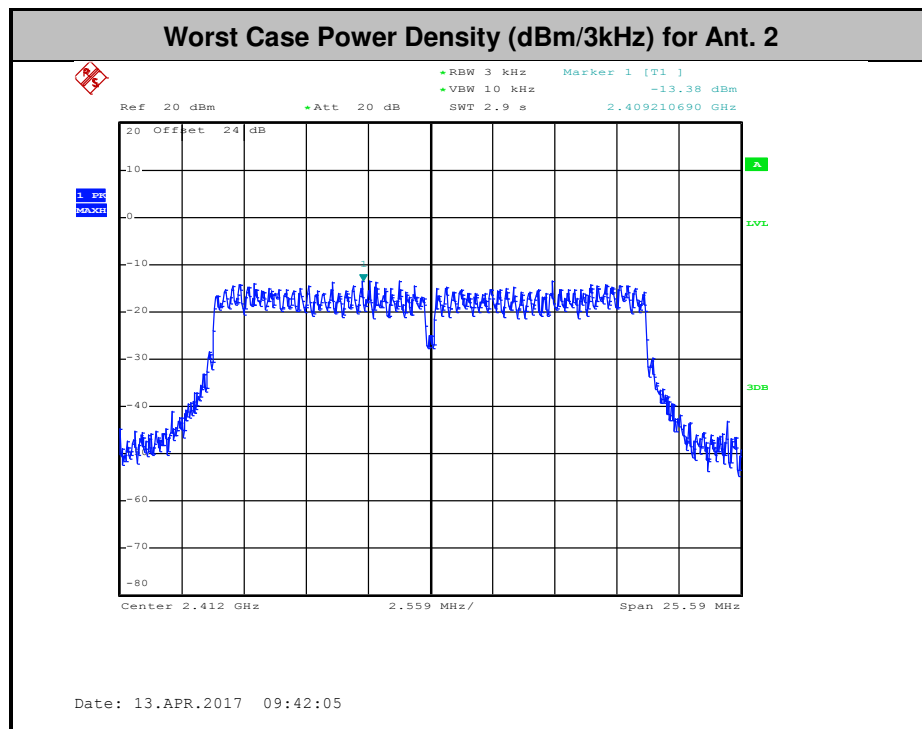
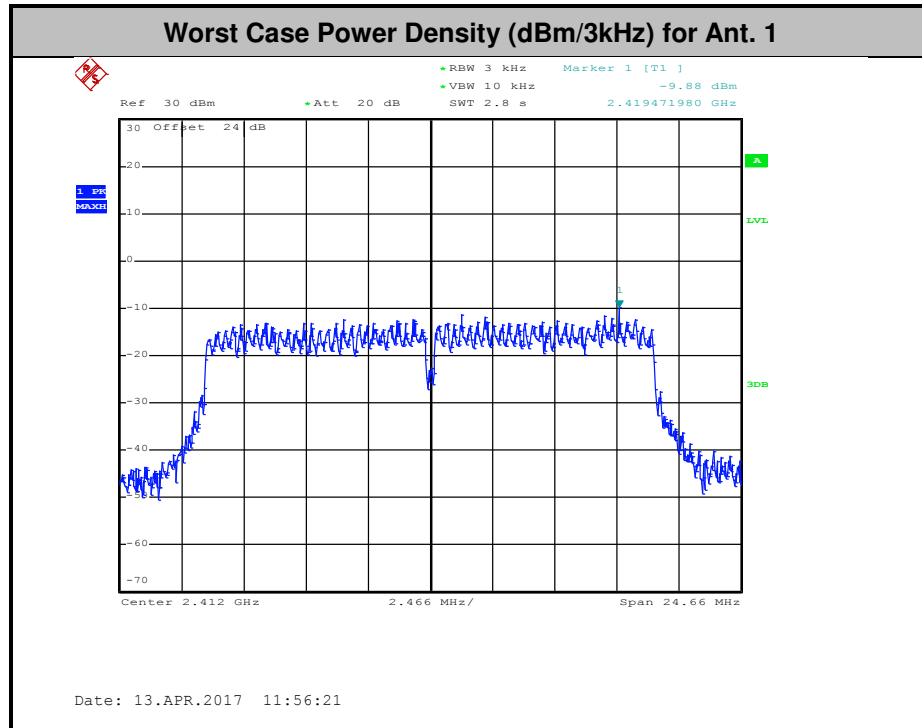
Method (2): Measure and add $10 \log(N)$ dB, where N is the number of outputs. (N=2)

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

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

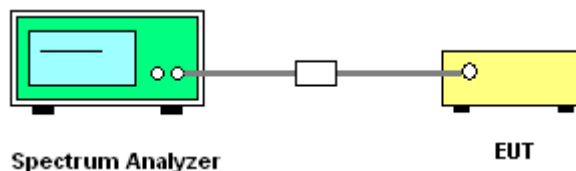
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup

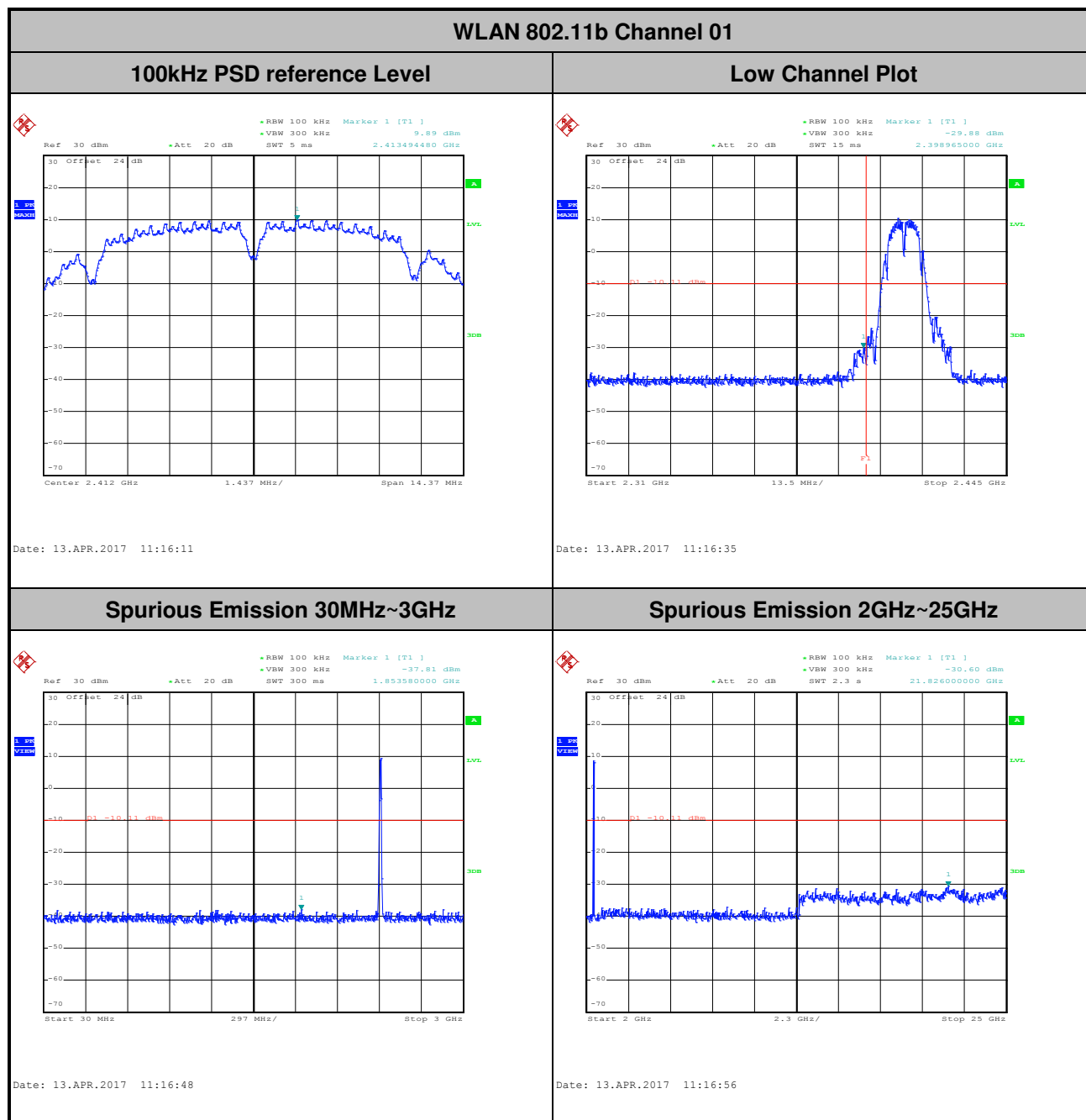




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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

Number of TX	1	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Allen Lin

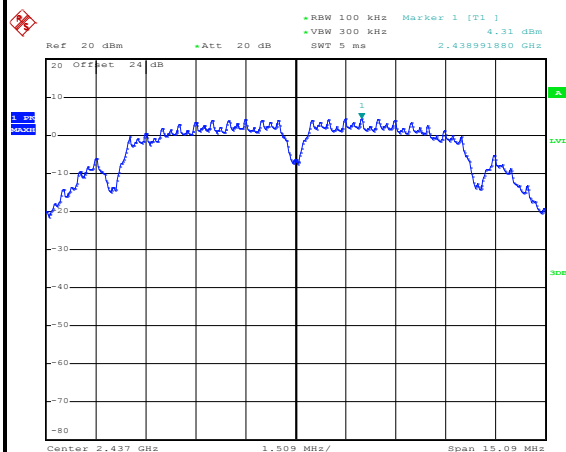




Number of TX :	1	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

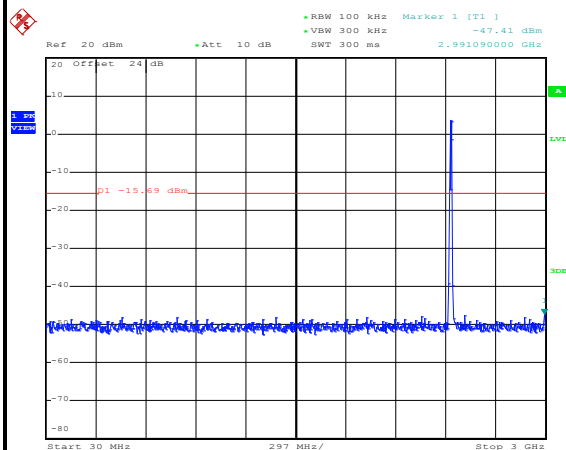
WLAN 802.11b Channel 06

100kHz PSD reference Level



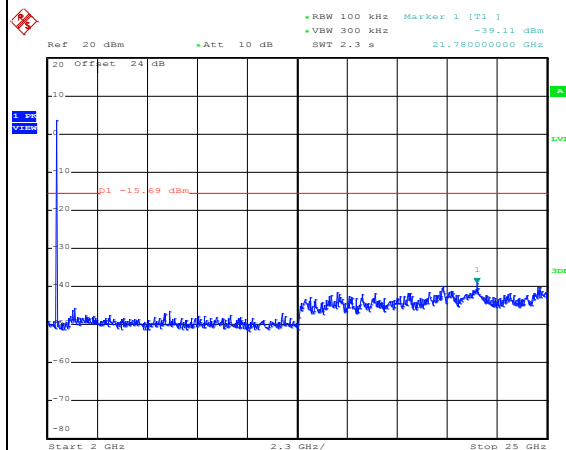
Date: 5.APR.2017 18:02:42

Spurious Emission 30MHz~3GHz



Date: 5.APR.2017 18:03:30

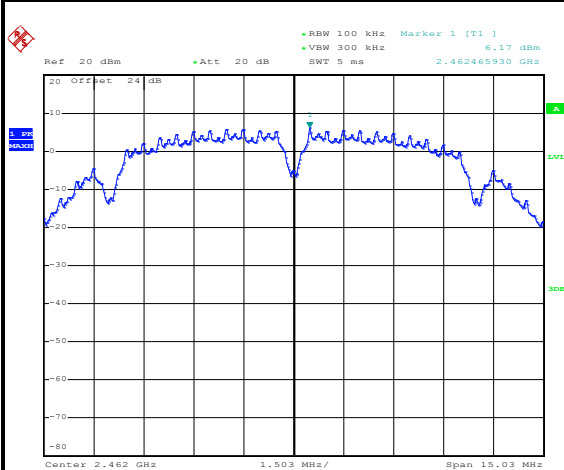
Spurious Emission 2GHz~25GHz



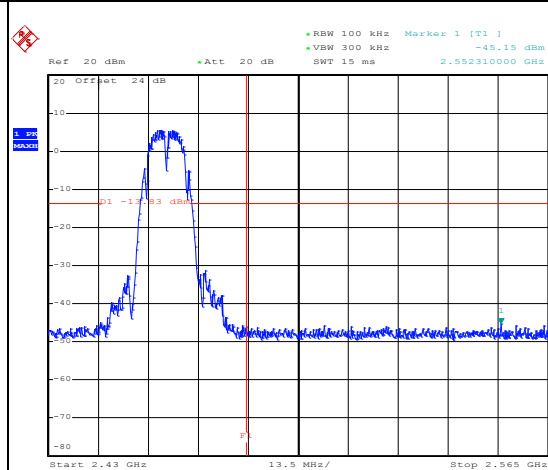
Date: 5.APR.2017 18:03:38



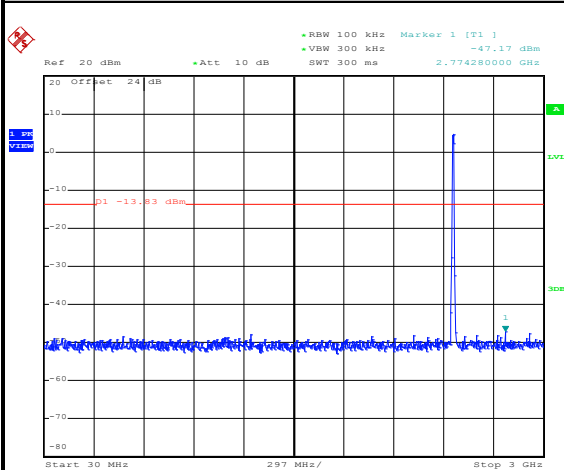
Number of TX :	1	Ant. :	1
Test Mode :	802.11b	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Allen Lin

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

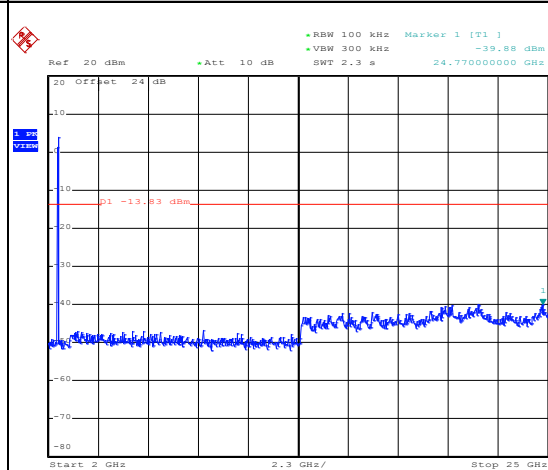
Date: 5.APR.2017 18:07:37

High Channel Plot

Date: 5.APR.2017 18:07:59

Spurious Emission 30MHz~3GHz

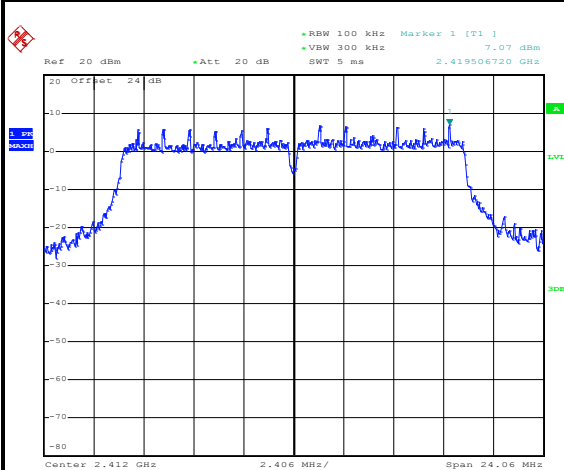
Date: 5.APR.2017 18:08:14

Spurious Emission 2GHz~25GHz

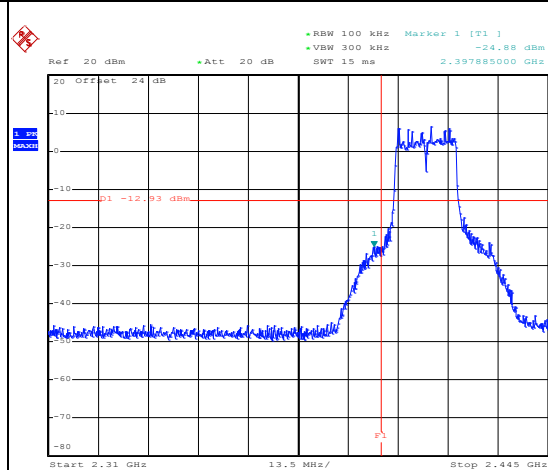
Date: 5.APR.2017 18:08:23



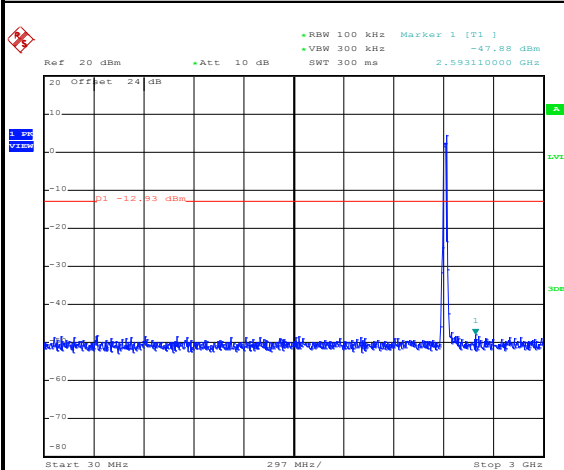
Number of TX :	1	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Allen Lin

WLAN 802.11g Channel 01**100kHz PSD reference Level**

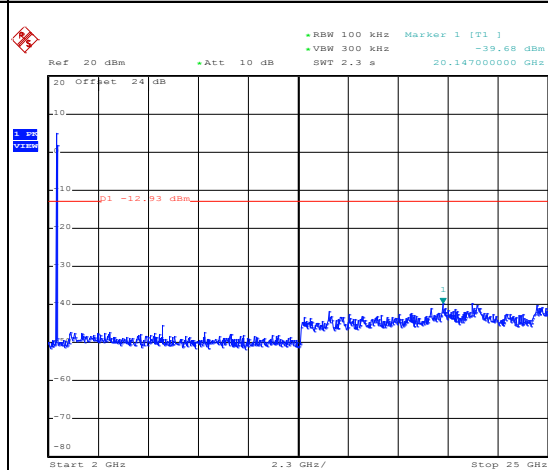
Date: 5.APR.2017 18:32:16

Low Channel Plot

Date: 5.APR.2017 18:32:34

Spurious Emission 30MHz~3GHz

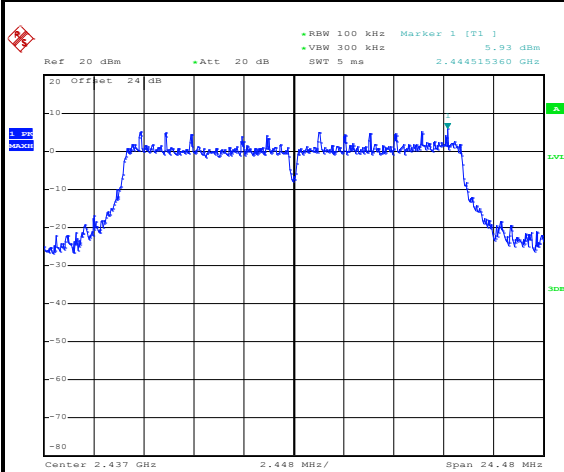
Date: 5.APR.2017 18:32:53

Spurious Emission 2GHz~25GHz

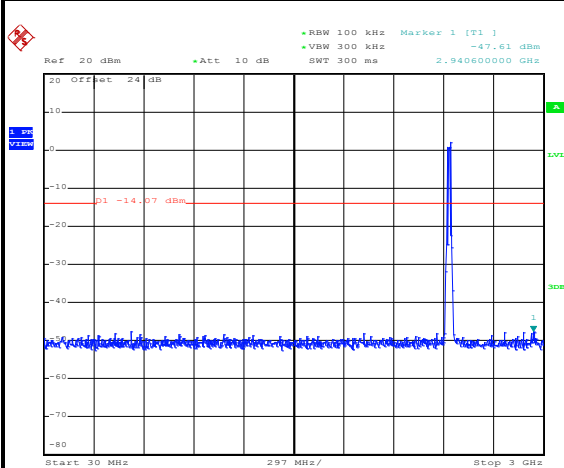
Date: 5.APR.2017 18:33:02



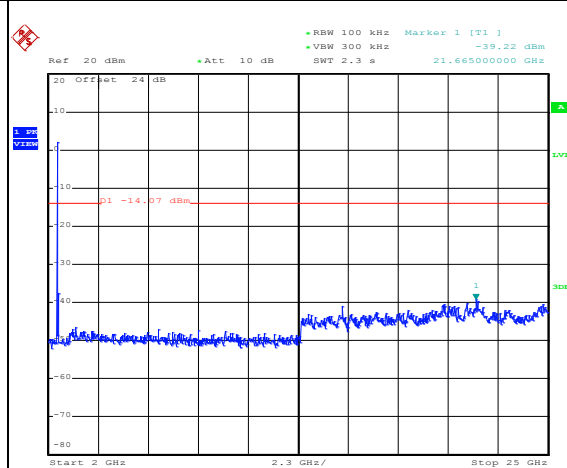
Number of TX :	1	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

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

Date: 5.APR.2017 18:20:18

Spurious Emission 30MHz~3GHz

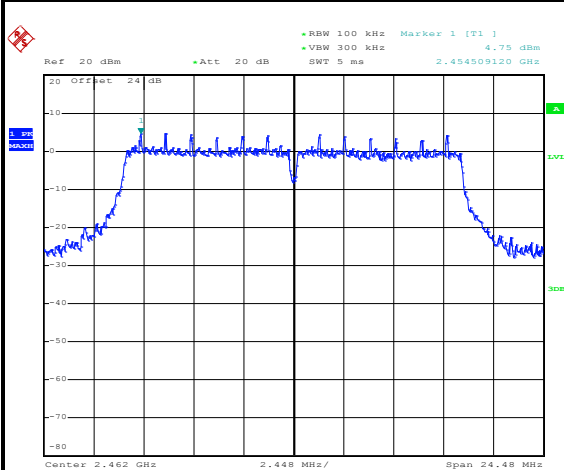
Date: 5.APR.2017 18:20:37

Spurious Emission 2GHz~25GHz

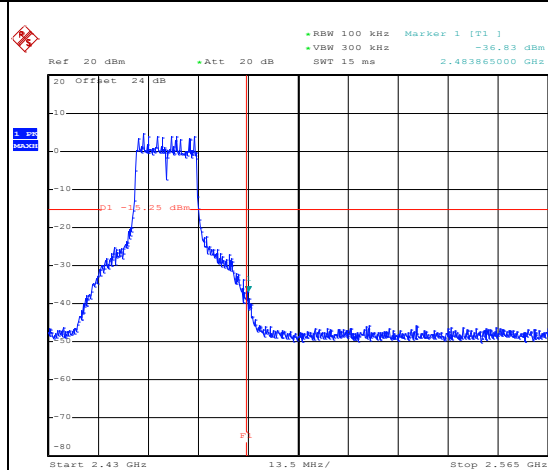
Date: 5.APR.2017 18:20:46



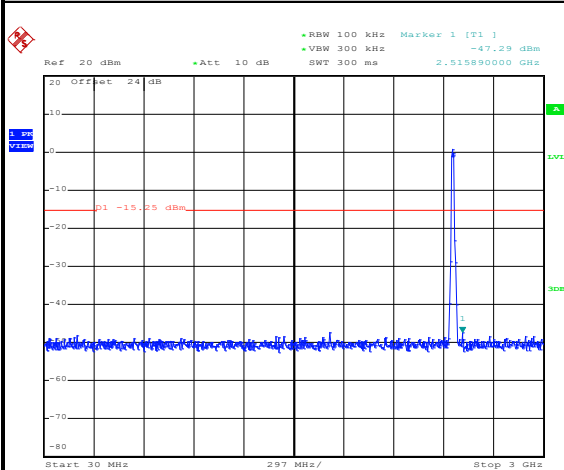
Number of TX :	1	Ant. :	1
Test Mode :	802.11g	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Allen Lin

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

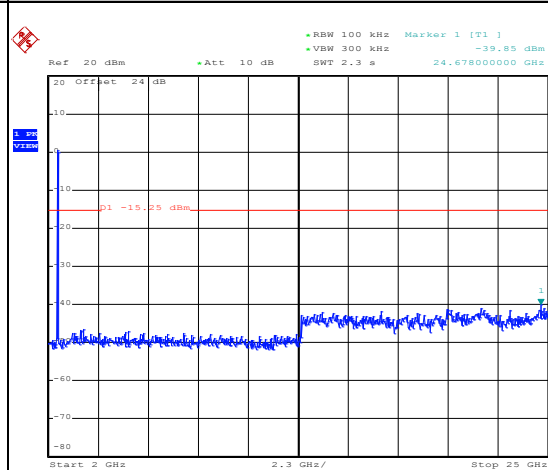
Date: 13.APR.2017 09:17:16

High Channel Plot

Date: 13.APR.2017 09:17:33

Spurious Emission 30MHz~3GHz

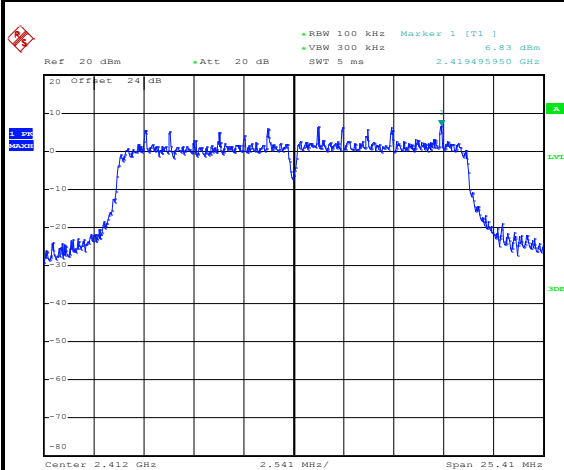
Date: 13.APR.2017 09:17:47

Spurious Emission 2GHz~25GHz

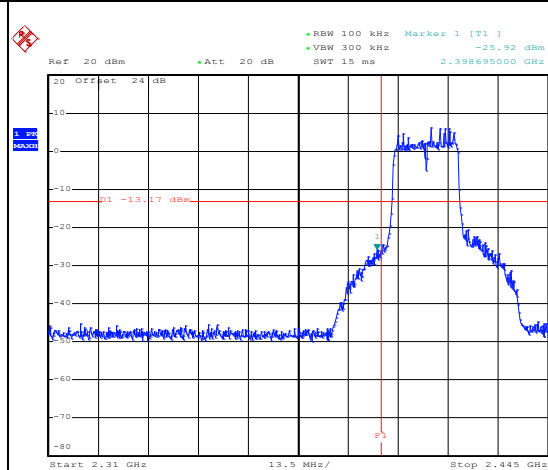
Date: 13.APR.2017 09:17:55



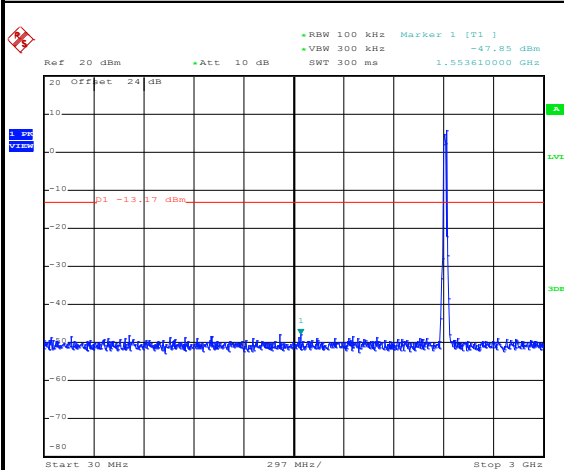
Number of TX :	1	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Allen Lin

WLAN 802.11n HT20 Channel 01**100kHz PSD reference Level**

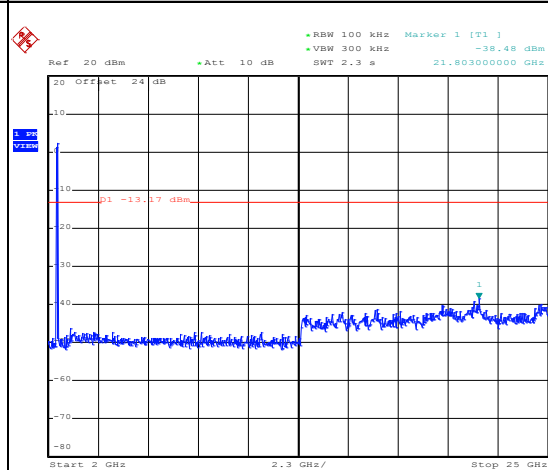
Date: 10.APR.2017 14:53:16

Low Channel Plot

Date: 10.APR.2017 14:53:38

Spurious Emission 30MHz~3GHz

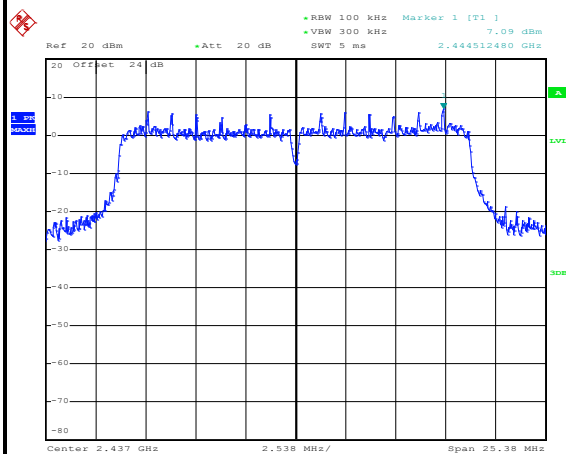
Date: 10.APR.2017 14:53:50

Spurious Emission 2GHz~25GHz

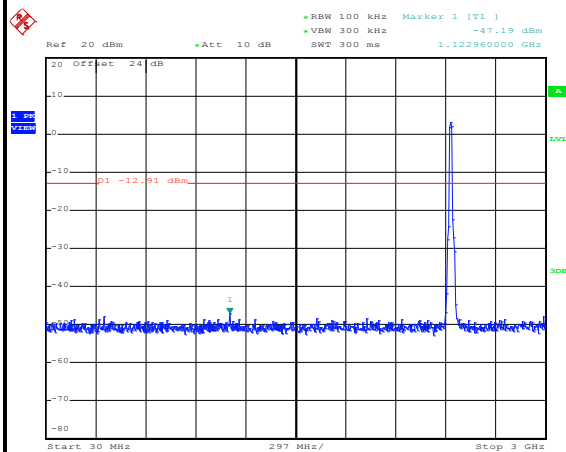
Date: 10.APR.2017 14:53:59



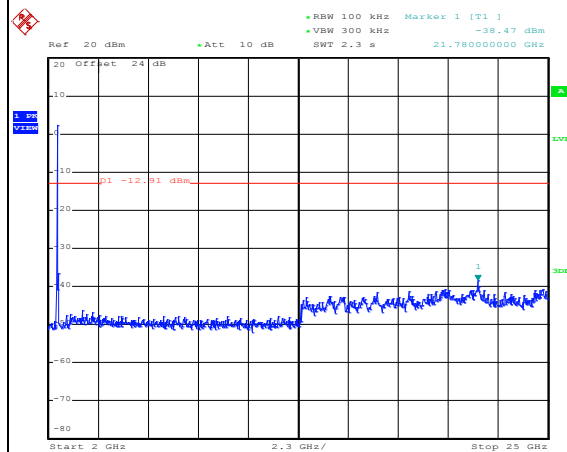
Number of TX :	1	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

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

Date: 5.APR.2017 18:45:00

Spurious Emission 30MHz~3GHz

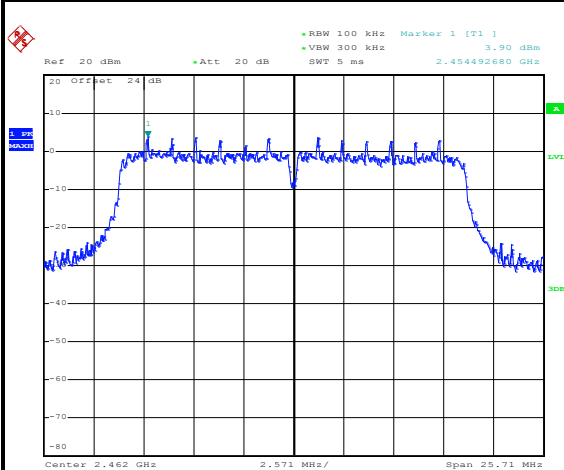
Date: 5.APR.2017 18:45:13

Spurious Emission 2GHz~25GHz

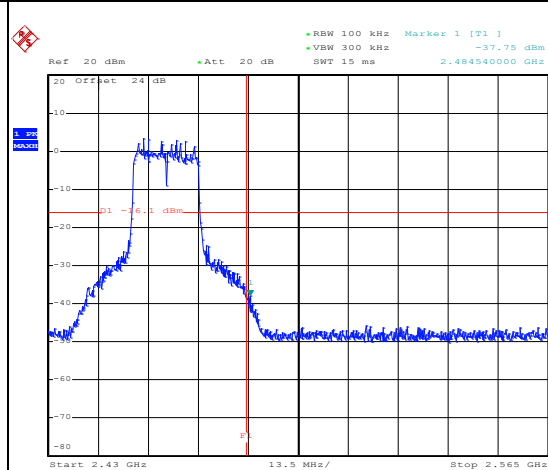
Date: 5.APR.2017 18:45:22



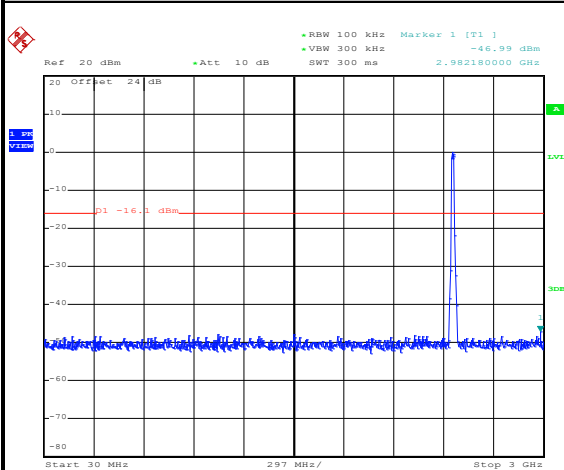
Number of TX :	1	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Allen Lin

WLAN 802.11n HT20 Channel 11**100kHz PSD reference Level**

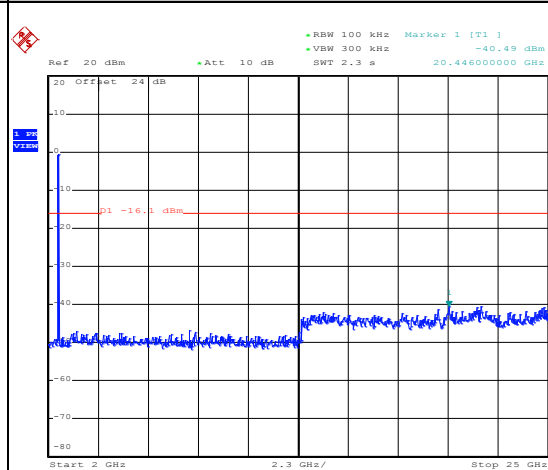
Date: 13.APR.2017 09:22:24

High Channel Plot

Date: 13.APR.2017 09:22:55

Spurious Emission 30MHz~3GHz

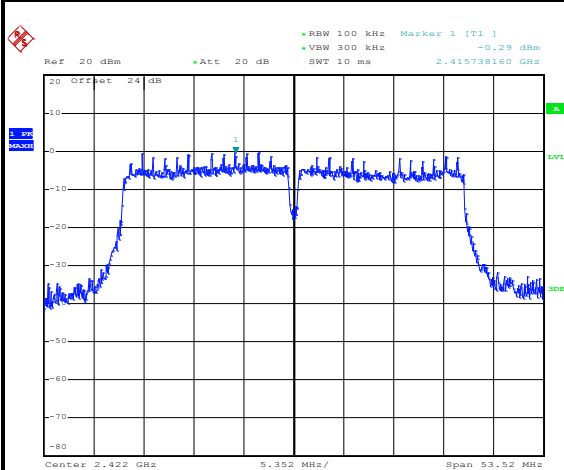
Date: 13.APR.2017 09:23:09

Spurious Emission 2GHz~25GHz

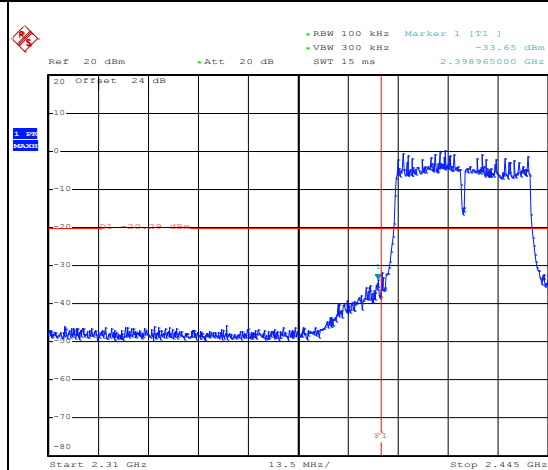
Date: 13.APR.2017 09:23:17



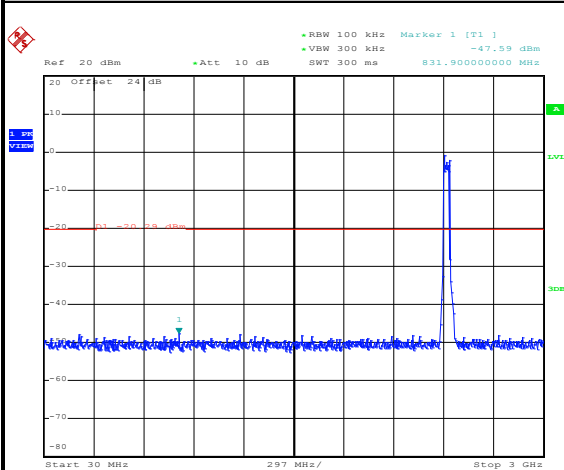
Number of TX :	1	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Allen Lin

WLAN 802.11n HT40 Channel 03**100kHz PSD reference Level**

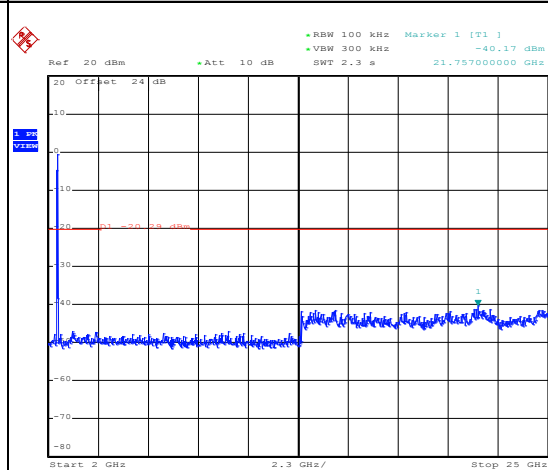
Date: 5.APR.2017 19:18:24

Low Channel Plot

Date: 5.APR.2017 19:18:40

Spurious Emission 30MHz~3GHz

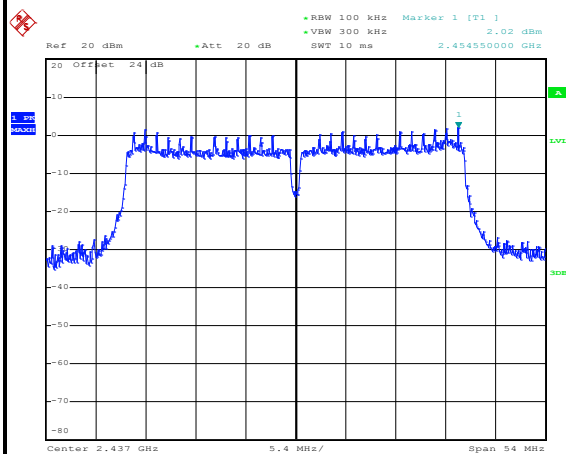
Date: 14.APR.2017 09:14:50

Spurious Emission 2GHz~25GHz

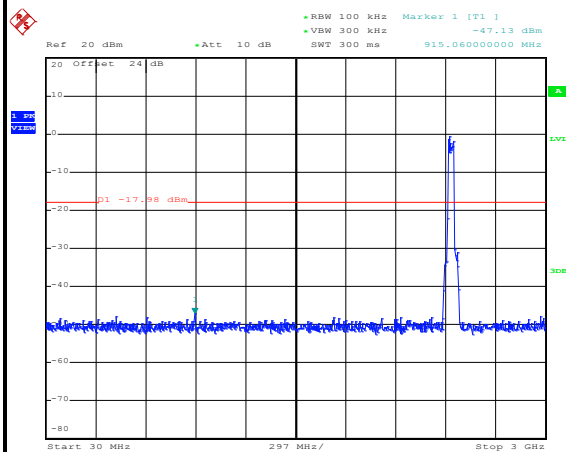
Date: 14.APR.2017 09:14:58



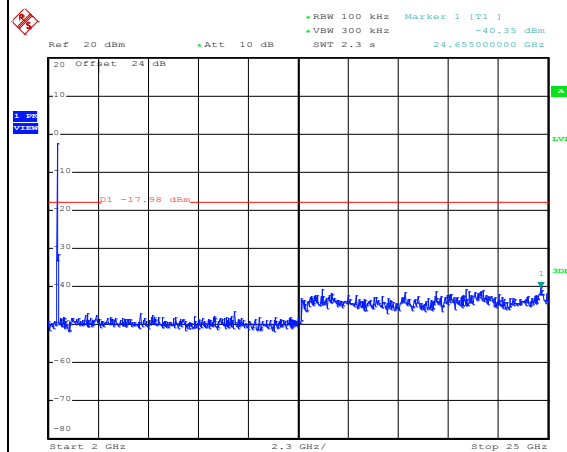
Number of TX :	1	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

WLAN 802.11n HT40 Channel 06**100kHz PSD reference Level**

Date: 14.APR.2017 09:18:34

Spurious Emission 30MHz~3GHz

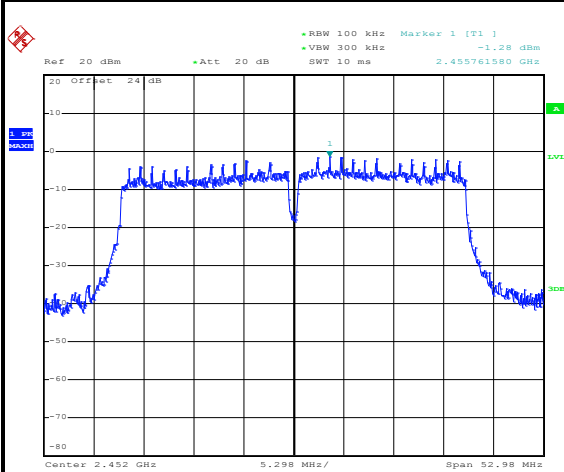
Date: 14.APR.2017 09:19:13

Spurious Emission 2GHz~25GHz

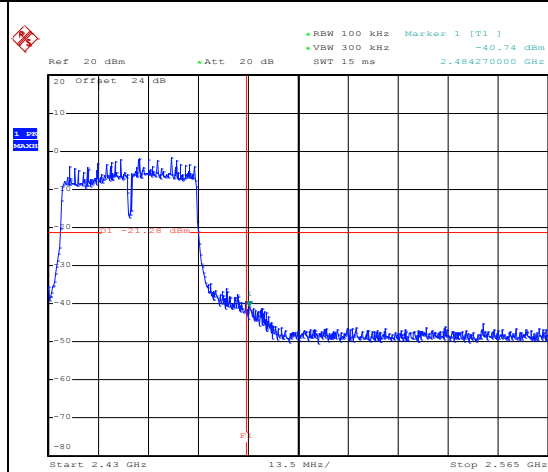
Date: 14.APR.2017 09:19:22



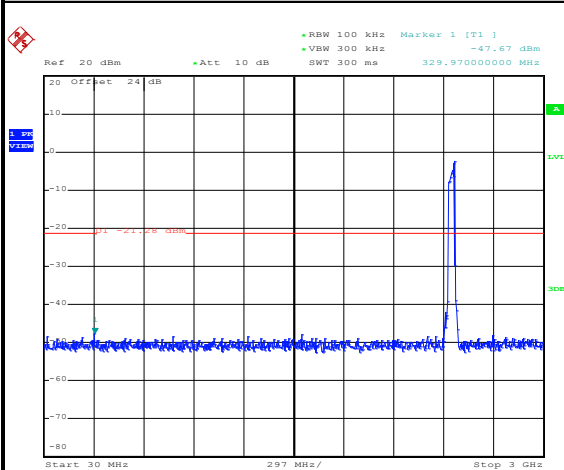
Number of TX :	1	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Allen Lin

WLAN 802.11n HT40 Channel 09**100kHz PSD reference Level**

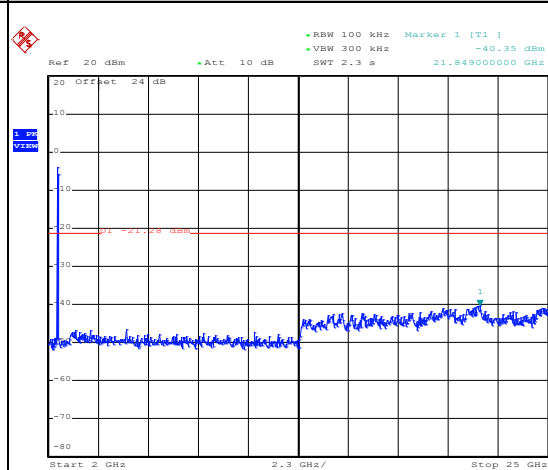
Date: 5.APR.2017 19:24:21

High Channel Plot

Date: 5.APR.2017 19:24:33

Spurious Emission 30MHz~3GHz

Date: 5.APR.2017 19:24:47

Spurious Emission 2GHz~25GHz

Date: 5.APR.2017 19:24:55

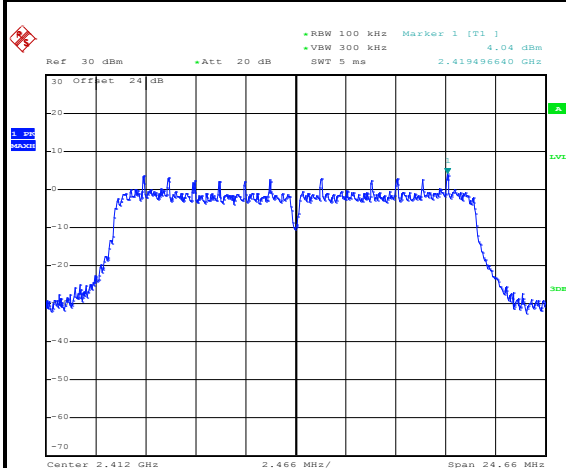


Number of TX = 2, Ant. 1 (Measured)

Number of TX :	2	Ant. :	1
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

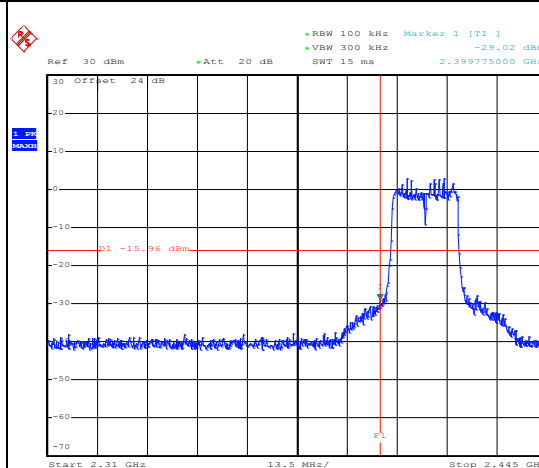
WLAN 802.11n HT20 Channel 01

100kHz PSD reference Level



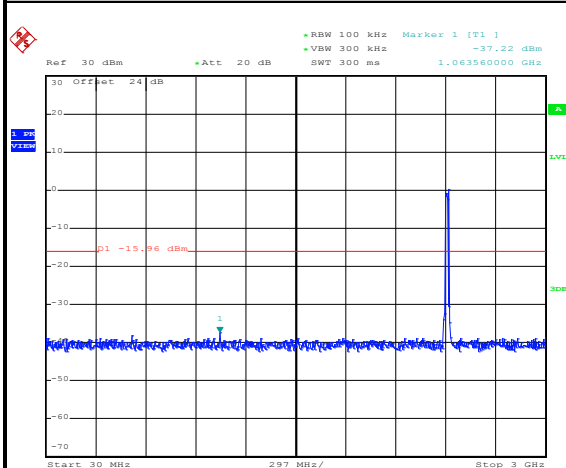
Date: 13.APR.2017 11:56:40

Low Channel Plot



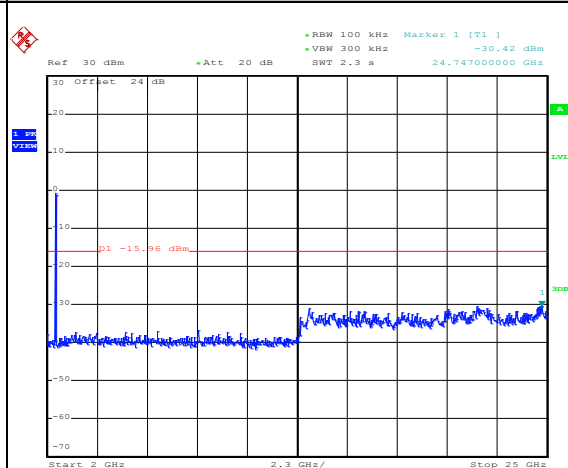
Date: 13.APR.2017 11:56:56

Spurious Emission 30MHz~3GHz



Date: 13.APR.2017 11:57:09

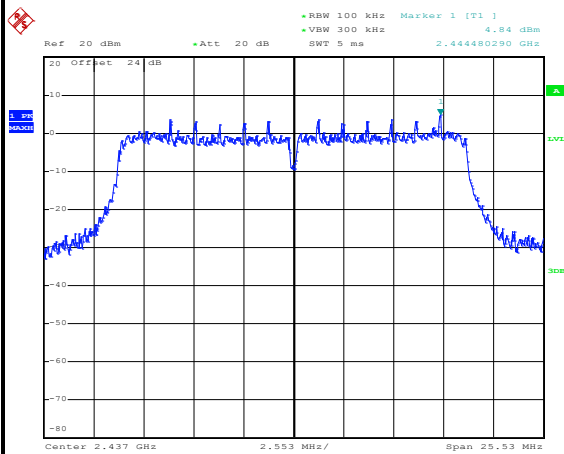
Spurious Emission 2GHz~25GHz



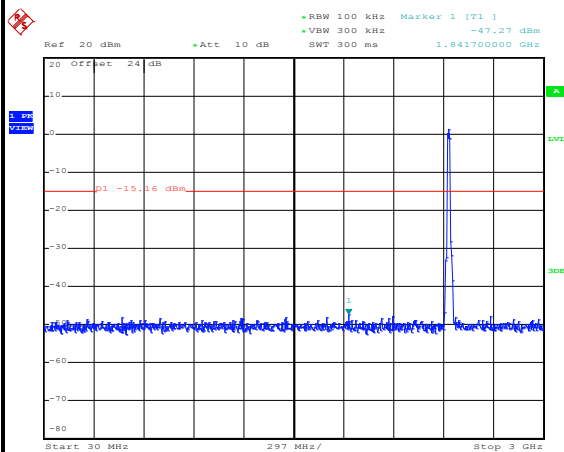
Date: 13.APR.2017 11:57:17



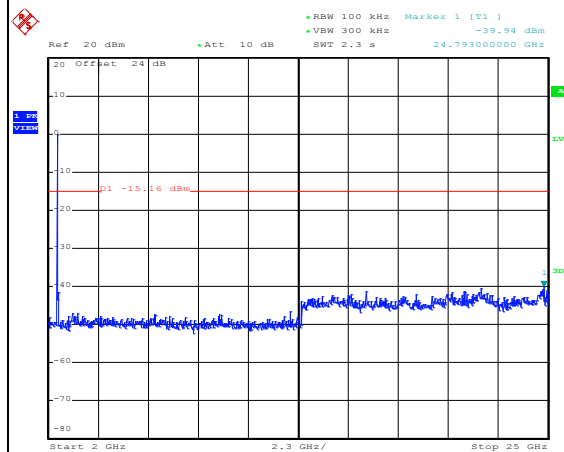
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

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

Date: 13.APR.2017 10:31:26

Spurious Emission 30MHz~3GHz

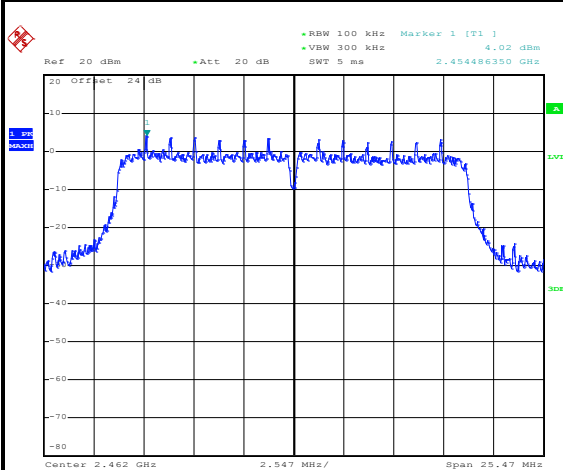
Date: 13.APR.2017 10:31:38

Spurious Emission 2GHz~25GHz

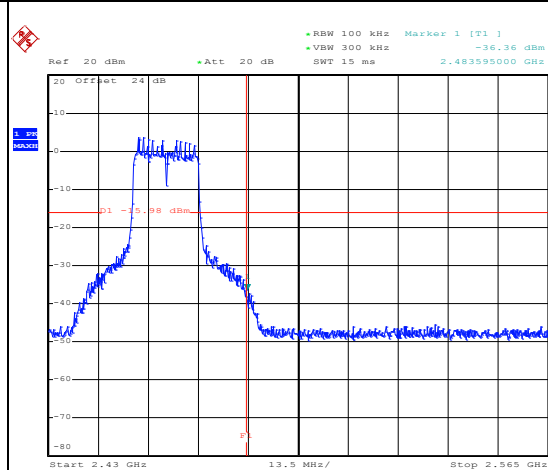
Date: 13.APR.2017 10:31:47



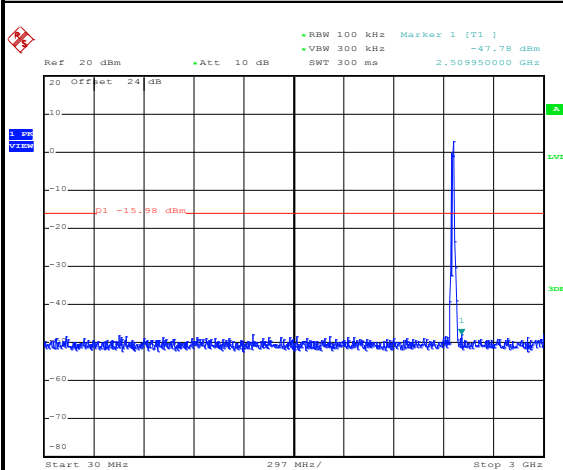
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Allen Lin

WLAN 802.11n HT20 Channel 11**100kHz PSD reference Level**

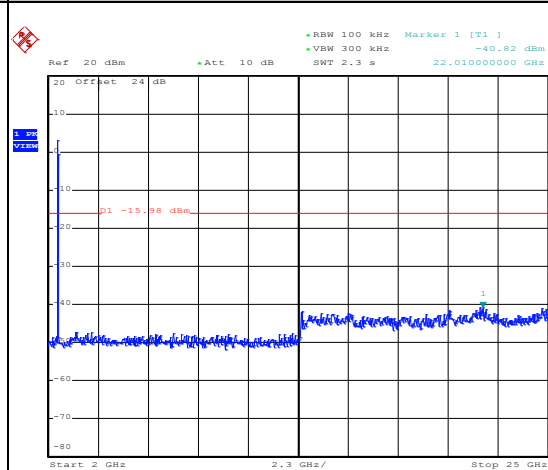
Date: 13.APR.2017 09:49:21

High Channel Plot

Date: 13.APR.2017 09:49:47

Spurious Emission 30MHz~3GHz

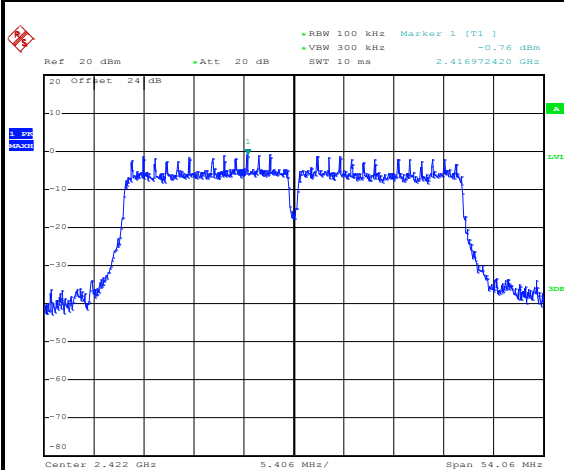
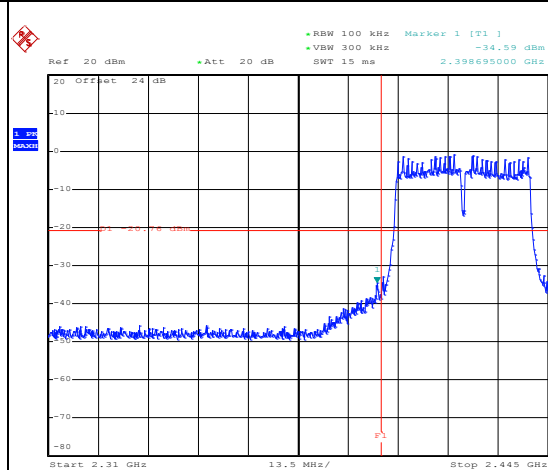
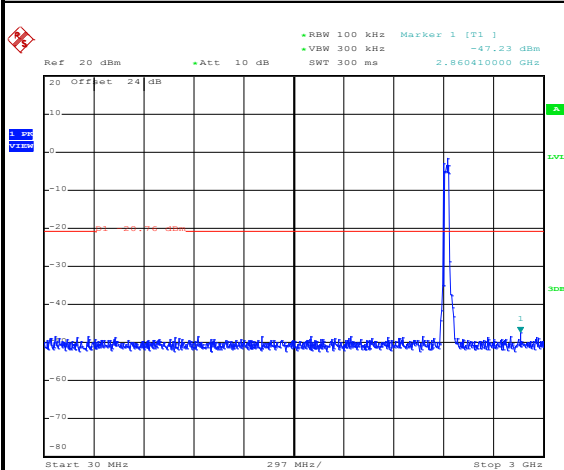
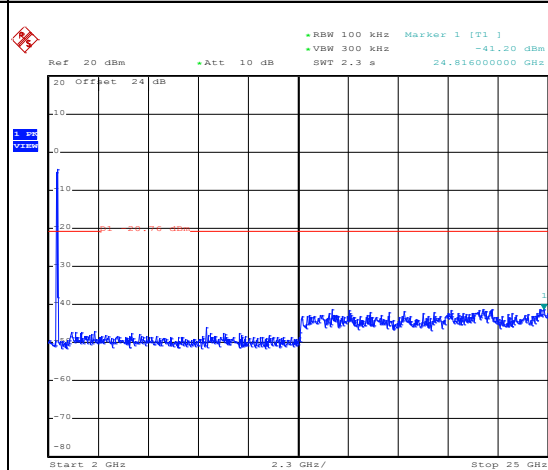
Date: 13.APR.2017 09:51:03

Spurious Emission 2GHz~25GHz

Date: 13.APR.2017 09:51:12

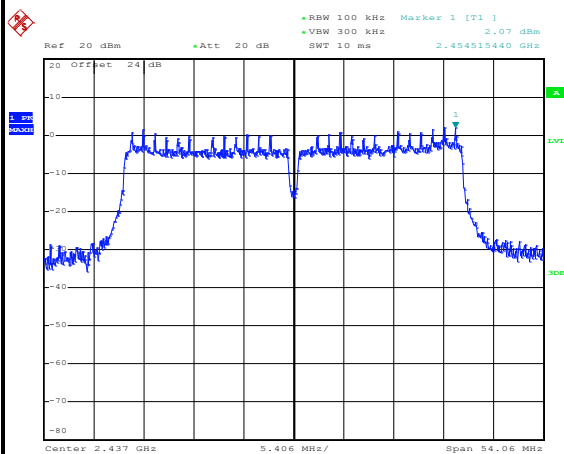


Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Allen Lin

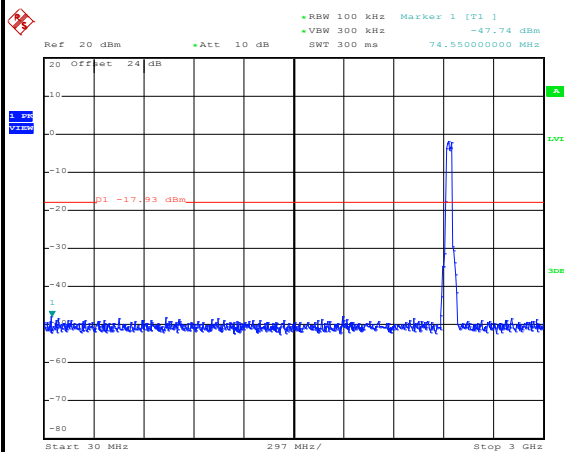
WLAN 802.11n HT40 Channel 03**100kHz PSD reference Level****Low Channel Plot****Spurious Emission 30MHz~3GHz****Spurious Emission 2GHz~25GHz**



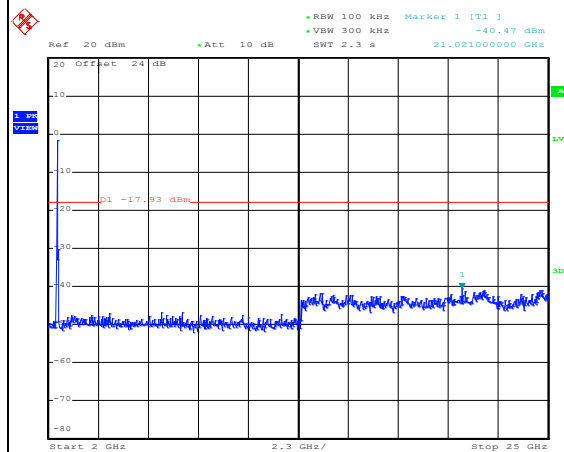
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

WLAN 802.11n HT40 Channel 06**100kHz PSD reference Level**

Date: 13.APR.2017 10:08:44

Spurious Emission 30MHz~3GHz

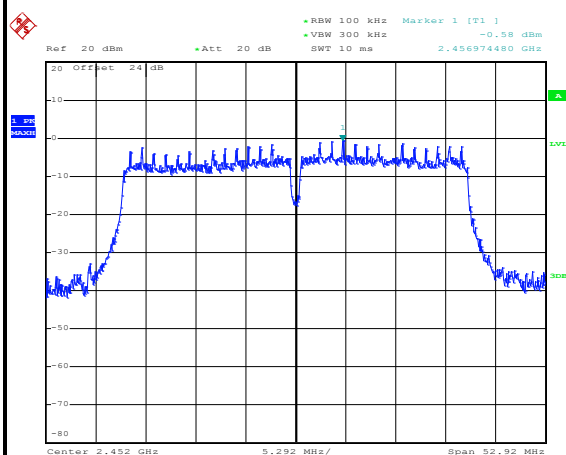
Date: 13.APR.2017 10:08:58

Spurious Emission 2GHz~25GHz

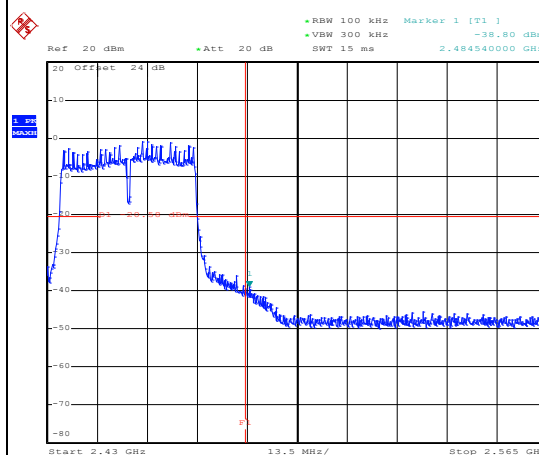
Date: 13.APR.2017 10:09:06



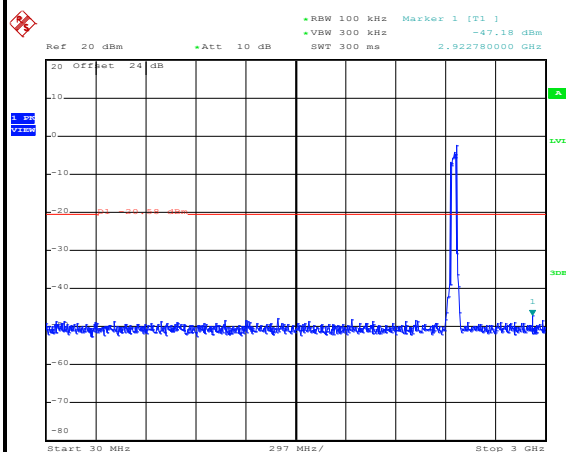
Number of TX :	2	Ant. :	1
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Allen Lin

WLAN 802.11n HT40 Channel 09**100kHz PSD reference Level**

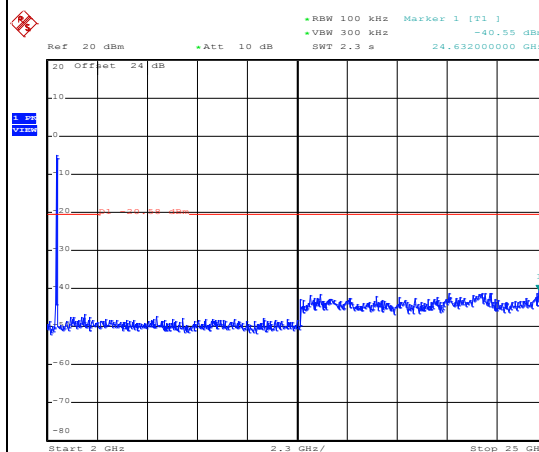
Date: 13.APR.2017 10:15:45

High Channel Plot

Date: 13.APR.2017 10:16:04

Spurious Emission 30MHz~3GHz

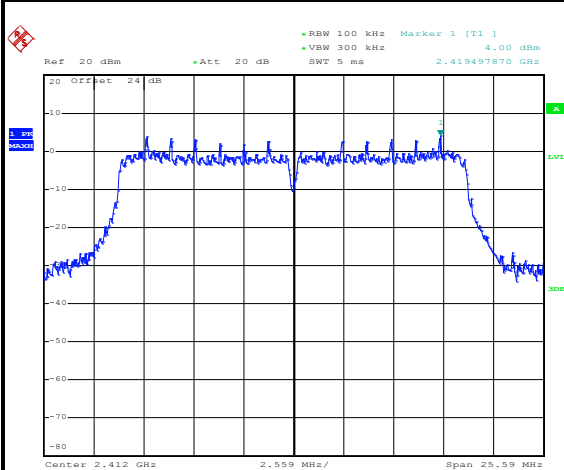
Date: 13.APR.2017 10:16:42

Spurious Emission 2GHz~25GHz

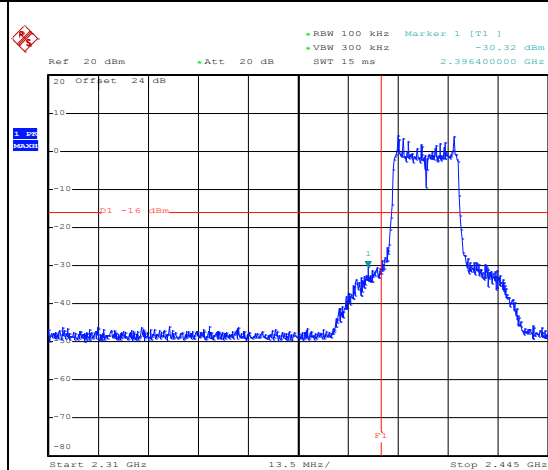
Date: 13.APR.2017 10:16:51

**Number of TX = 2, Ant. 2 (Measured)**

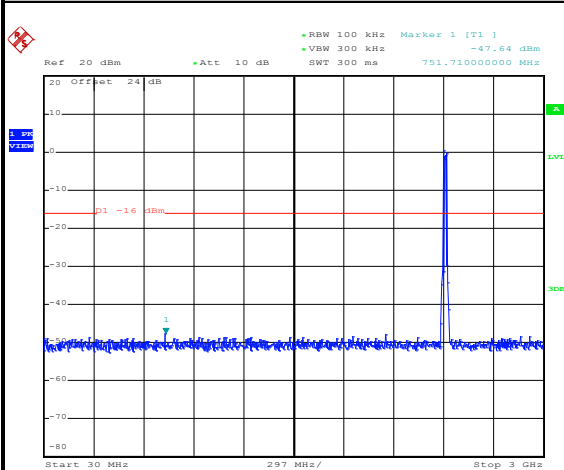
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	01	Test Engineer :	Allen Lin

WLAN 802.11n HT20 Channel 01**100kHz PSD reference Level**

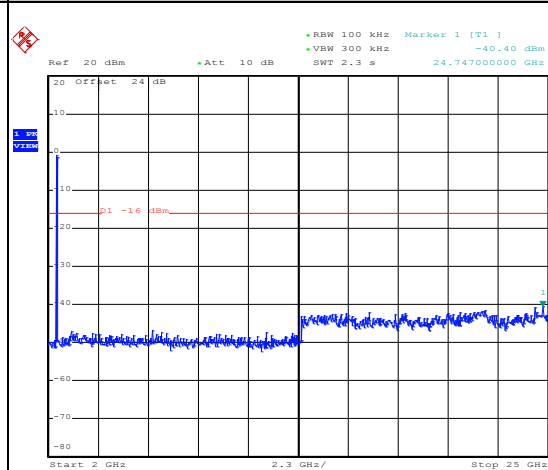
Date: 13.APR.2017 09:42:19

Low Channel Plot

Date: 13.APR.2017 09:42:33

Spurious Emission 30MHz~3GHz

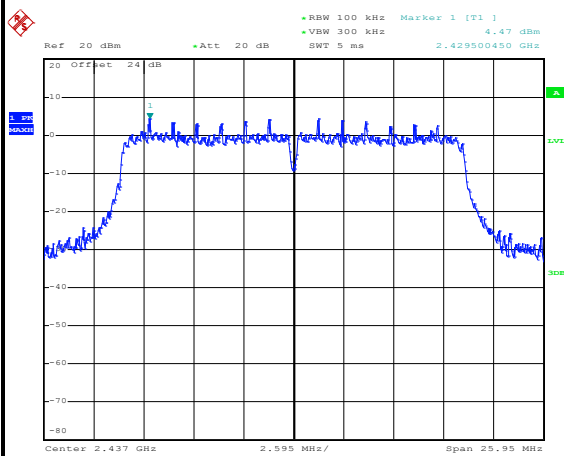
Date: 13.APR.2017 09:42:45

Spurious Emission 2GHz~25GHz

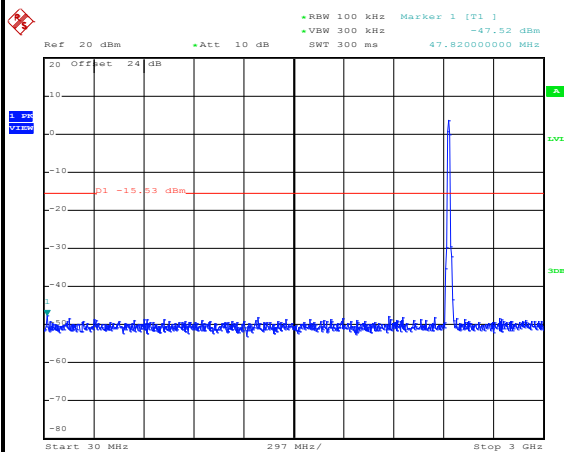
Date: 13.APR.2017 09:42:53



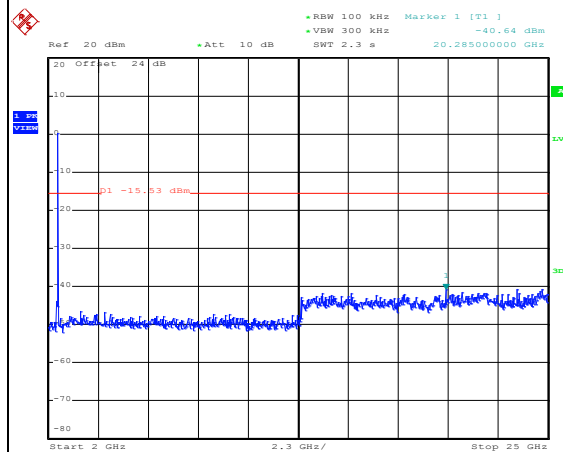
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

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

Date: 13.APR.2017 10:35:41

Spurious Emission 30MHz~3GHz

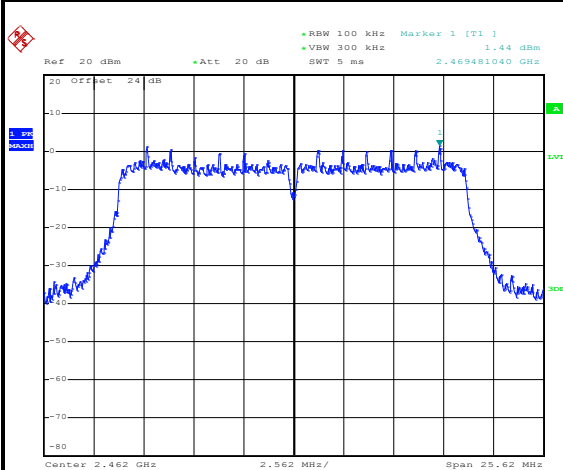
Date: 13.APR.2017 10:35:56

Spurious Emission 2GHz~25GHz

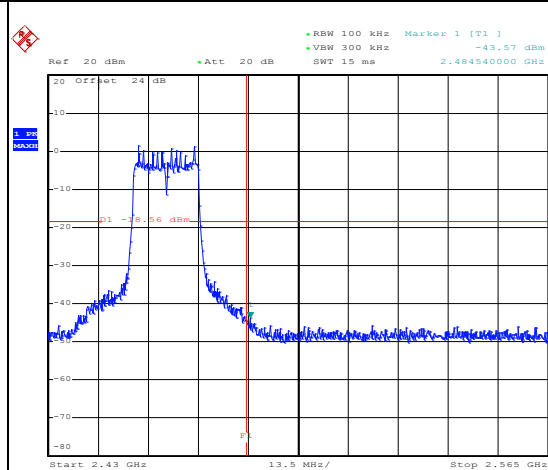
Date: 13.APR.2017 10:36:04



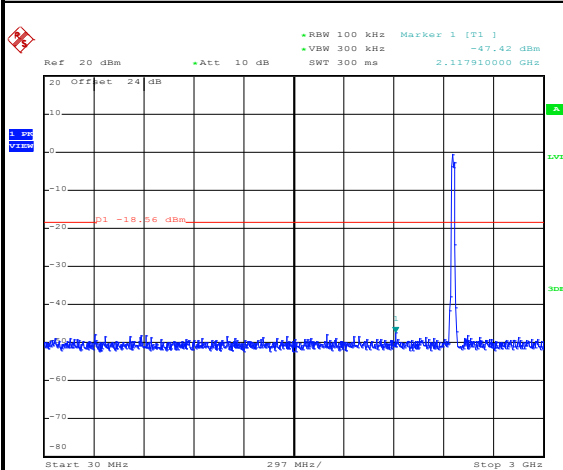
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT20	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	11	Test Engineer :	Allen Lin

WLAN 802.11n HT20 Channel 11**100kHz PSD reference Level**

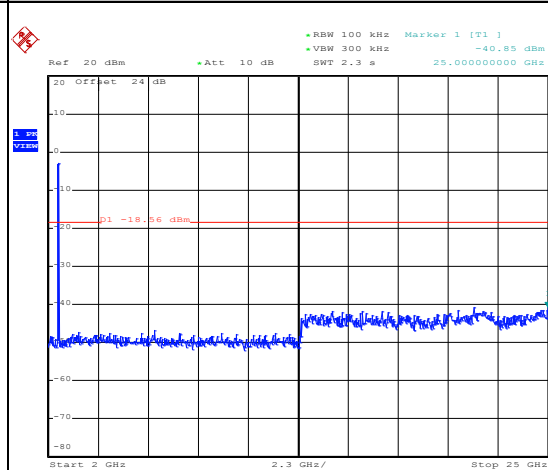
Date: 13.APR.2017 09:55:17

High Channel Plot

Date: 13.APR.2017 09:55:31

Spurious Emission 30MHz~3GHz

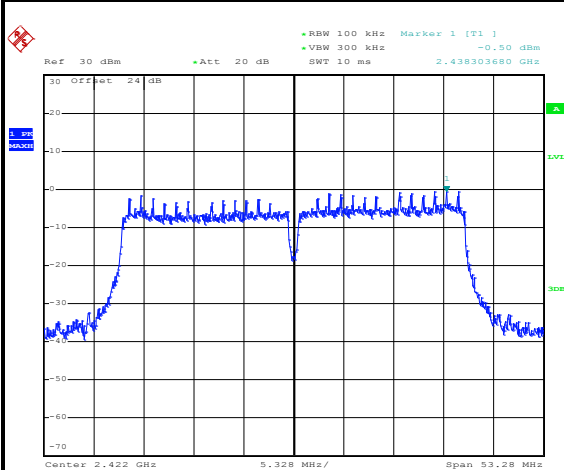
Date: 13.APR.2017 09:56:40

Spurious Emission 2GHz~25GHz

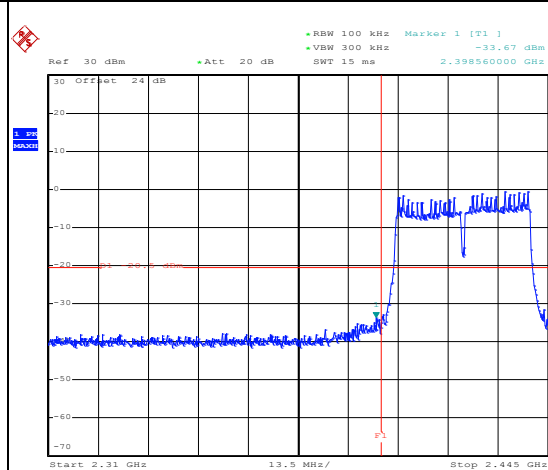
Date: 13.APR.2017 09:56:49



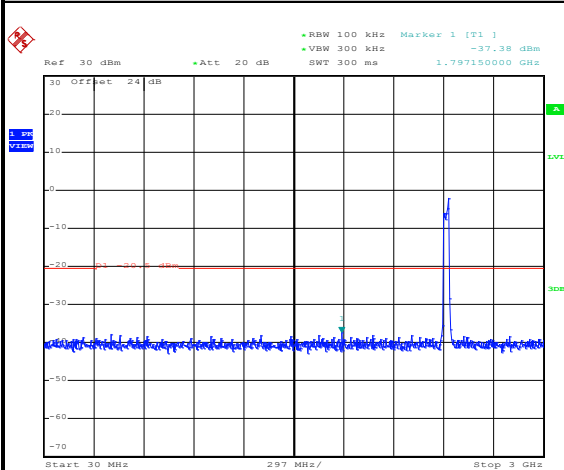
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Low	Relative Humidity :	51~54%
Test Channel :	03	Test Engineer :	Allen Lin

WLAN 802.11n HT40 Channel 03**100kHz PSD reference Level**

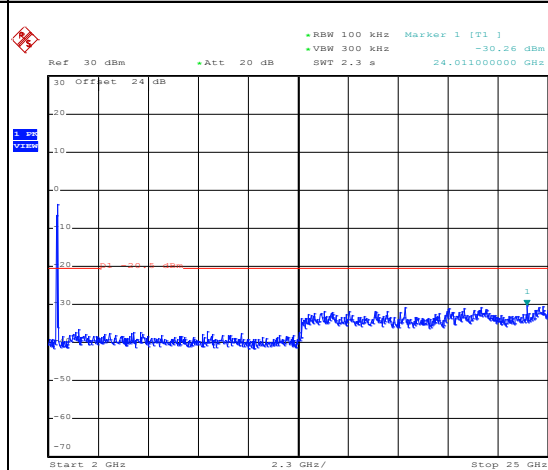
Date: 13.APR.2017 13:36:46

Low Channel Plot

Date: 13.APR.2017 13:37:14

Spurious Emission 30MHz~3GHz

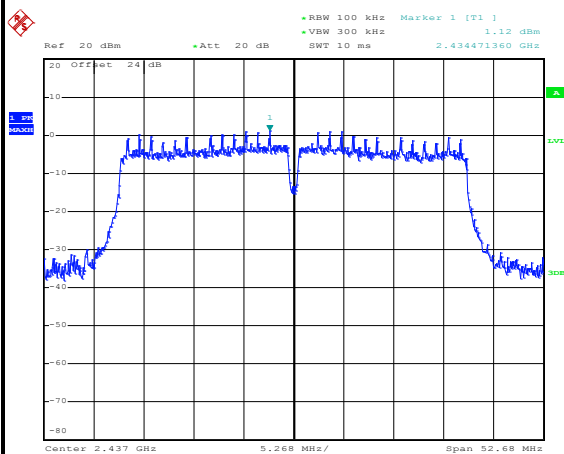
Date: 13.APR.2017 13:37:31

Spurious Emission 2GHz~25GHz

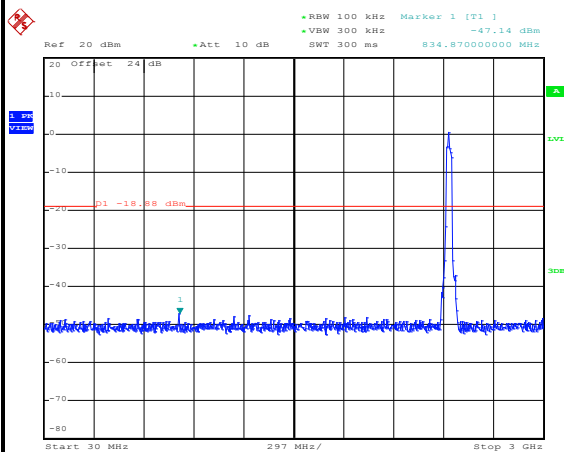
Date: 13.APR.2017 13:37:39



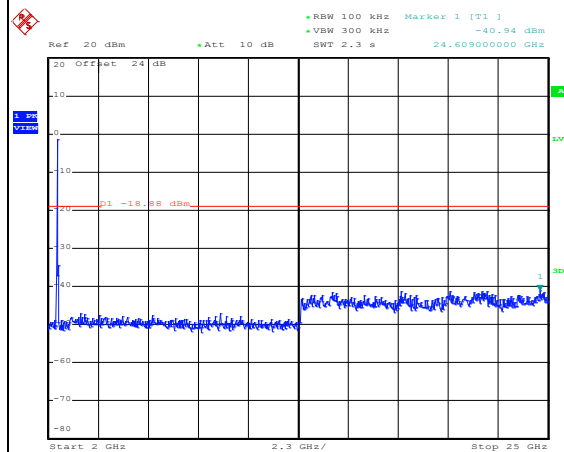
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	51~54%
Test Channel :	06	Test Engineer :	Allen Lin

WLAN 802.11n HT40 Channel 06**100kHz PSD reference Level**

Date: 13.APR.2017 10:11:42

Spurious Emission 30MHz~3GHz

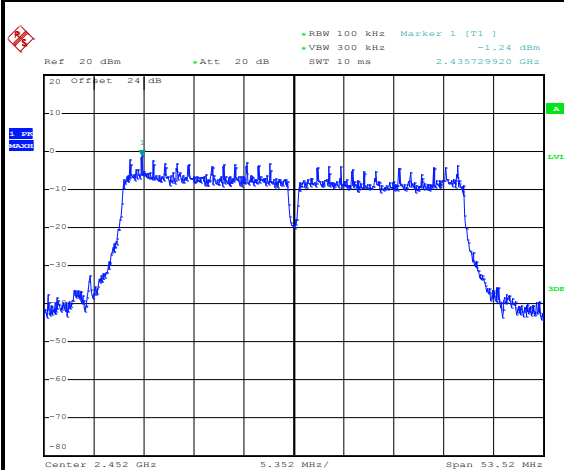
Date: 13.APR.2017 10:12:17

Spurious Emission 2GHz~25GHz

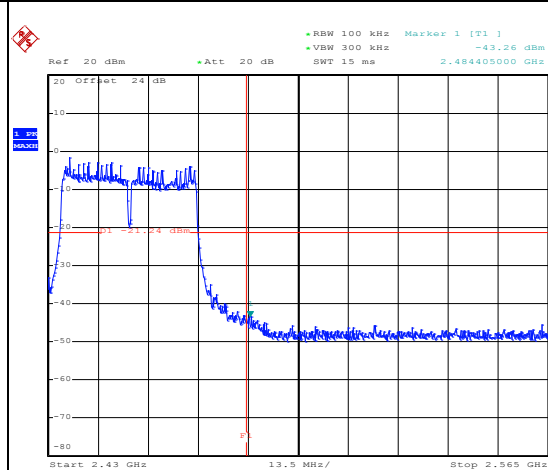
Date: 13.APR.2017 10:12:25



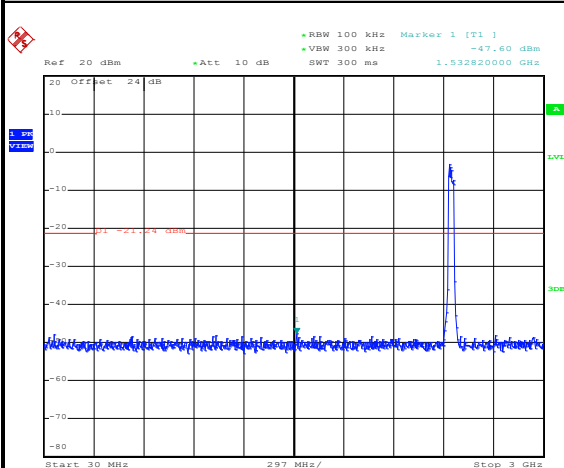
Number of TX :	2	Ant. :	2
Test Mode :	802.11n HT40	Temperature :	21~25°C
Test Band :	2.4GHz High	Relative Humidity :	51~54%
Test Channel :	09	Test Engineer :	Allen Lin

WLAN 802.11n HT40 Channel 09**100kHz PSD reference Level**

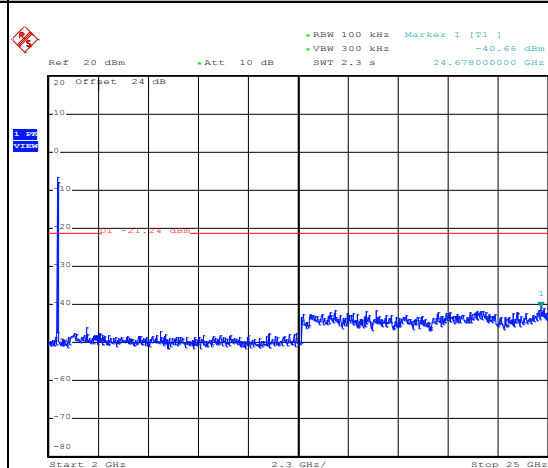
Date: 13.APR.2017 10:19:10

High Channel Plot

Date: 13.APR.2017 10:19:27

Spurious Emission 30MHz~3GHz

Date: 13.APR.2017 10:20:36

Spurious Emission 2GHz~25GHz

Date: 13.APR.2017 10:20:44

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

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



3.5.3 Test Procedures

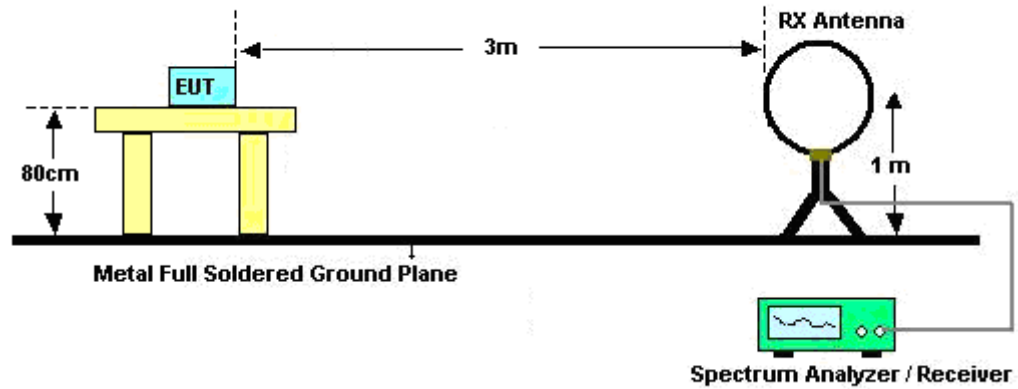
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For 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:

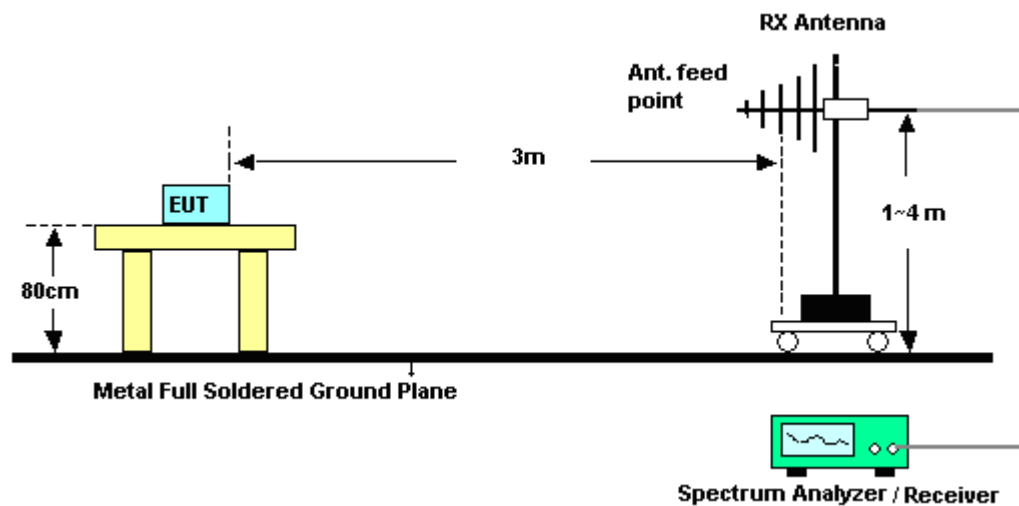
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

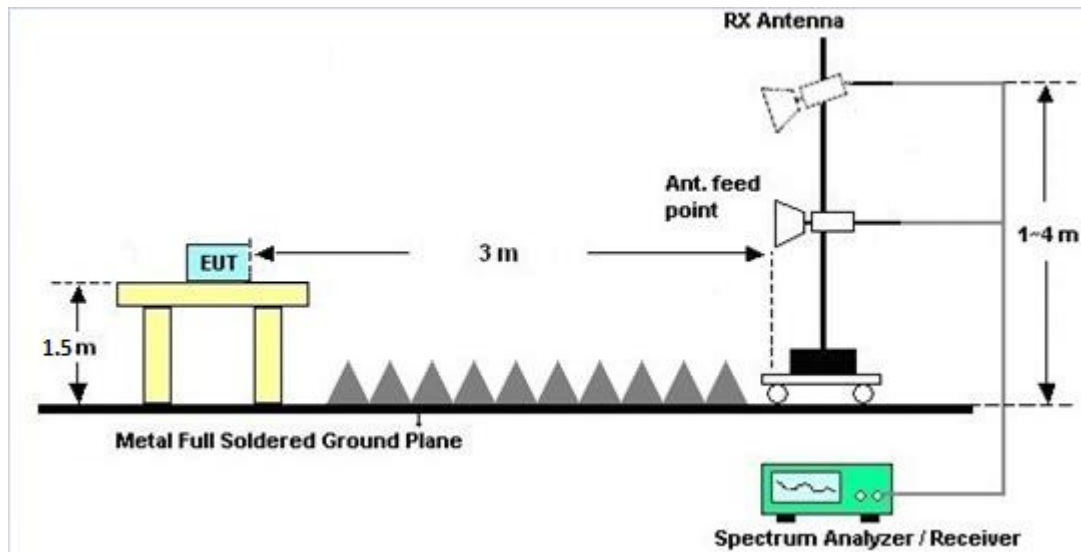
For radiated emissions below 30MHz



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 was not reported.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

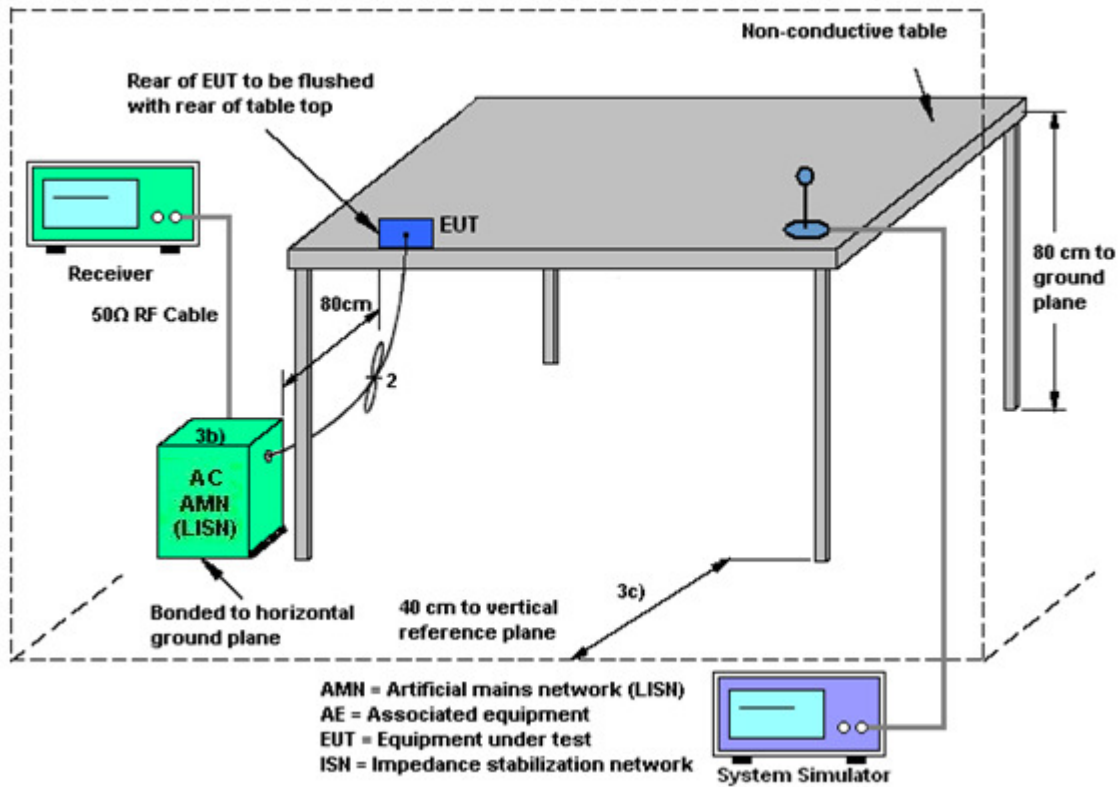
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

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

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 1	Ant. 2	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	3.80	3.80	3.80	6.81	0.00	0.81

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Feb. 17, 2017 ~ Apr. 14, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Feb. 17, 2017 ~ Apr. 14, 2017	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz-40GHz	Jul. 17, 2016	Feb. 17, 2017 ~ Apr. 14, 2017	Jul. 16, 2017	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 24, 2017	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Aug. 30, 2016	Feb. 24, 2017	Aug. 29, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 29, 2016	Feb. 24, 2017	Nov. 28, 2017	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Dec. 06, 2016	Feb. 24, 2017	Dec. 05, 2017	Conduction (CO05-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Oct. 20, 2016	Mar. 02, 2017 ~ Mar. 31, 2017	Oct. 19, 2018	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	37059&01	30MHz~1GHz	Oct. 15, 2016	Mar. 02, 2017 ~ Mar. 31, 2017	Oct. 14, 2017	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1328	1GHz ~ 18GHz	Oct. 25, 2016	Mar. 02, 2017 ~ Mar. 31, 2017	Oct. 24, 2017	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz ~ 40GHz	Apr. 15, 2016	Mar. 02, 2017 ~ Mar. 31, 2017	Apr. 14, 2017	Radiation (03CH12-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100390	20Hz~26.5GHz	Dec. 23, 2016	Mar. 02, 2017 ~ Mar. 31, 2017	Dec. 22, 2017	Radiation (03CH12-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Mar. 02, 2017 ~ Mar. 31, 2017	Nov. 09, 2017	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Apr. 01, 2016	Mar. 02, 2017 ~ Mar. 22, 2017	Mar. 31, 2017	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 23, 2017	Mar. 23, 2017 ~ Mar. 31, 2017	Mar. 22, 2018	Radiation (03CH12-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1815698	1GHz~18GHz	Dec. 01, 2016	Mar. 02, 2017 ~ Mar. 31, 2017	Nov. 30, 2017	Radiation (03CH12-HY)
Preamplifier	Keysight	83017A	MY53270148	1GHz~26.5GHz	Jan. 12, 2017	Mar. 02, 2017 ~ Mar. 31, 2017	Jan. 11, 2018	Radiation (03CH12-HY)
Preamplifier	MITEQ	JS44-180040 00-33-8P	1840917	18GHz ~ 40GHz	Jun. 14, 2016	Mar. 02, 2017 ~ Mar. 31, 2017	Jun. 13, 2017	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Mar. 02, 2017 ~ Mar. 31, 2017	N/A	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Mar. 02, 2017 ~ Mar. 31, 2017	N/A	Radiation (03CH12-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.70
---	------

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.1
---	-----

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
---	-----

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.7
---	-----



Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Allen Lin	Temperature:	21~25	°C
Test Date:	2017/02/17~2017/04/14	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)		6dB BW (MHz)		6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2		
11b	1Mbps	1	1	2412	12.75	-	9.58	-	0.50	Pass
11b	1Mbps	1	6	2437	12.40	-	10.06	-	0.50	Pass
11b	1Mbps	1	11	2462	12.35	-	10.02	-	0.50	Pass
11g	6Mbps	1	1	2412	17.70	-	16.04	-	0.50	Pass
11g	6Mbps	1	6	2437	18.20	-	16.32	-	0.50	Pass
11g	6Mbps	1	11	2462	17.85	-	16.32	-	0.50	Pass
HT20	MCS0	1	1	2412	18.45	-	16.94	-	0.50	Pass
HT20	MCS0	1	6	2437	18.85	-	16.92	-	0.50	Pass
HT20	MCS0	1	11	2462	18.45	-	17.14	-	0.50	Pass
HT40	MCS0	1	3	2422	36.50	-	35.68	-	0.50	Pass
HT40	MCS0	1	6	2437	37.20	-	36.00	-	0.50	Pass
HT40	MCS0	1	9	2452	36.50	-	35.32	-	0.50	Pass
HT20	MCS0	2	1	2412	18.55	18.55	16.44	17.06	0.50	Pass
HT20	MCS0	2	6	2437	18.65	18.35	17.02	17.30	0.50	Pass
HT20	MCS0	2	11	2462	18.60	18.45	16.98	17.08	0.50	Pass
HT40	MCS0	2	3	2422	36.60	36.80	36.04	35.52	0.50	Pass
HT40	MCS0	2	6	2437	37.20	36.50	36.04	35.12	0.50	Pass
HT40	MCS0	2	9	2452	36.50	36.80	35.28	35.68	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	22.80	-		30.00	-	3.80	-	26.60	-	36.00	-	Pass
11b	1Mbps	1	6	2437	17.76	-		30.00	-	3.80	-	21.56	-	36.00	-	Pass
11b	1Mbps	1	11	2462	18.08	-		30.00	-	3.80	-	21.88	-	36.00	-	Pass
11g	6Mbps	1	1	2412	23.55	-		30.00	-	3.80	-	27.35	-	36.00	-	Pass
11g	6Mbps	1	6	2437	22.85	-		30.00	-	3.80	-	26.65	-	36.00	-	Pass
11g	6Mbps	1	11	2462	21.90	-		30.00	-	3.80	-	25.70	-	36.00	-	Pass
HT20	MCS0	1	1	2412	23.80	-		30.00	-	3.80	-	27.60	-	36.00	-	Pass
HT20	MCS0	1	6	2437	24.30	-		30.00	-	3.80	-	28.10	-	36.00	-	Pass
HT20	MCS0	1	11	2462	21.95	-		30.00	-	3.80	-	25.75	-	36.00	-	Pass
HT40	MCS0	1	3	2422	21.70	-		30.00	-	3.80	-	25.50	-	36.00	-	Pass
HT40	MCS0	1	6	2437	22.21	-		30.00	-	3.80	-	26.01	-	36.00	-	Pass
HT40	MCS0	1	9	2452	20.44	-		30.00	-	3.80	-	24.24	-	36.00	-	Pass
HT20	MCS0	2	1	2412	23.15	22.45	25.82	30.00		3.80		29.62		36.00		Pass
HT20	MCS0	2	6	2437	22.33	23.25	25.82	30.00		3.80		29.62		36.00		Pass
HT20	MCS0	2	11	2462	21.78	22.75	25.30	30.00		3.80		29.10		36.00		Pass
HT40	MCS0	2	3	2422	22.30	21.97	25.15	30.00		3.80		28.95		36.00		Pass
HT40	MCS0	2	6	2437	22.06	22.67	25.39	30.00		3.80		29.19		36.00		Pass
HT40	MCS0	2	9	2452	20.50	23.16	25.04	30.00		3.80		28.84		36.00		Pass

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

TEST RESULTS DATA
Average Output Power

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)		
					Ant 1	Ant 2	Ant 1	Ant 2	SUM
11b	1Mbps	1	1	2412	0.12	-	20.22	-	
11b	1Mbps	1	6	2437	0.12	-	14.45	-	
11b	1Mbps	1	11	2462	0.12	-	14.89	-	
11g	6Mbps	1	1	2412	0.56	-	17.07	-	
11g	6Mbps	1	6	2437	0.56	-	16.00	-	
11g	6Mbps	1	11	2462	0.56	-	15.07	-	
HT20	MCS0	1	1	2412	0.63	-	16.98	-	
HT20	MCS0	1	6	2437	0.63	-	17.52	-	
HT20	MCS0	1	11	2462	0.63	-	14.30	-	
HT40	MCS0	1	3	2422	1.16	-	13.46	-	
HT40	MCS0	1	6	2437	1.16	-	14.51	-	
HT40	MCS0	1	9	2452	1.16	-	11.97	-	
HT20	MCS0	2	1	2412	0.60	0.63	15.78	14.61	18.24
HT20	MCS0	2	6	2437	0.60	0.63	14.37	16.18	18.38
HT20	MCS0	2	11	2462	0.60	0.63	14.15	14.70	17.44
HT40	MCS0	2	3	2422	1.16	1.16	13.71	13.32	16.53
HT40	MCS0	2	6	2437	1.16	1.16	14.60	15.50	18.08
HT40	MCS0	2	9	2452	1.16	1.16	12.11	15.21	16.94

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

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)			DG (dBi)		Peak PSD Limit (dBm/3kHz)		Pass/Fail
					Ant 1	Ant 2	Worse + 3.01	Ant 1	Ant 2	Ant 1	Ant 2	
11b	1Mbps	1	1	2412	-4.52	-		3.80	-	8.00	-	Pass
11b	1Mbps	1	6	2437	-12.39	-		3.80	-	8.00	-	Pass
11b	1Mbps	1	11	2462	-9.08	-		3.80	-	8.00	-	Pass
11g	6Mbps	1	1	2412	-10.27	-		3.80	-	8.00	-	Pass
11g	6Mbps	1	6	2437	-9.31	-		3.80	-	8.00	-	Pass
11g	6Mbps	1	11	2462	-12.65	-		3.80	-	8.00	-	Pass
HT20	MCS0	1	1	2412	-9.28	-		3.80	-	8.00	-	Pass
HT20	MCS0	1	6	2437	-10.37	-		3.80	-	8.00	-	Pass
HT20	MCS0	1	11	2462	-13.17	-		3.80	-	8.00	-	Pass
HT40	MCS0	1	3	2422	-15.94	-		3.80	-	8.00	-	Pass
HT40	MCS0	1	6	2437	-14.18	-		3.80	-	8.00	-	Pass
HT40	MCS0	1	9	2452	-17.44	-		3.80	-	8.00	-	Pass
HT20	MCS0	2	1	2412	-9.88	-13.38	-6.87	6.81		7.19		Pass
HT20	MCS0	2	6	2437	-12.60	-11.62	-8.61	6.81		7.19		Pass
HT20	MCS0	2	11	2462	-13.22	-14.27	-10.21	6.81		7.19		Pass
HT40	MCS0	2	3	2422	-17.37	-15.98	-12.97	6.81		7.19		Pass
HT40	MCS0	2	6	2437	-13.55	-15.58	-10.54	6.81		7.19		Pass
HT40	MCS0	2	9	2452	-17.36	-18.07	-14.35	6.81		7.19		Pass

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



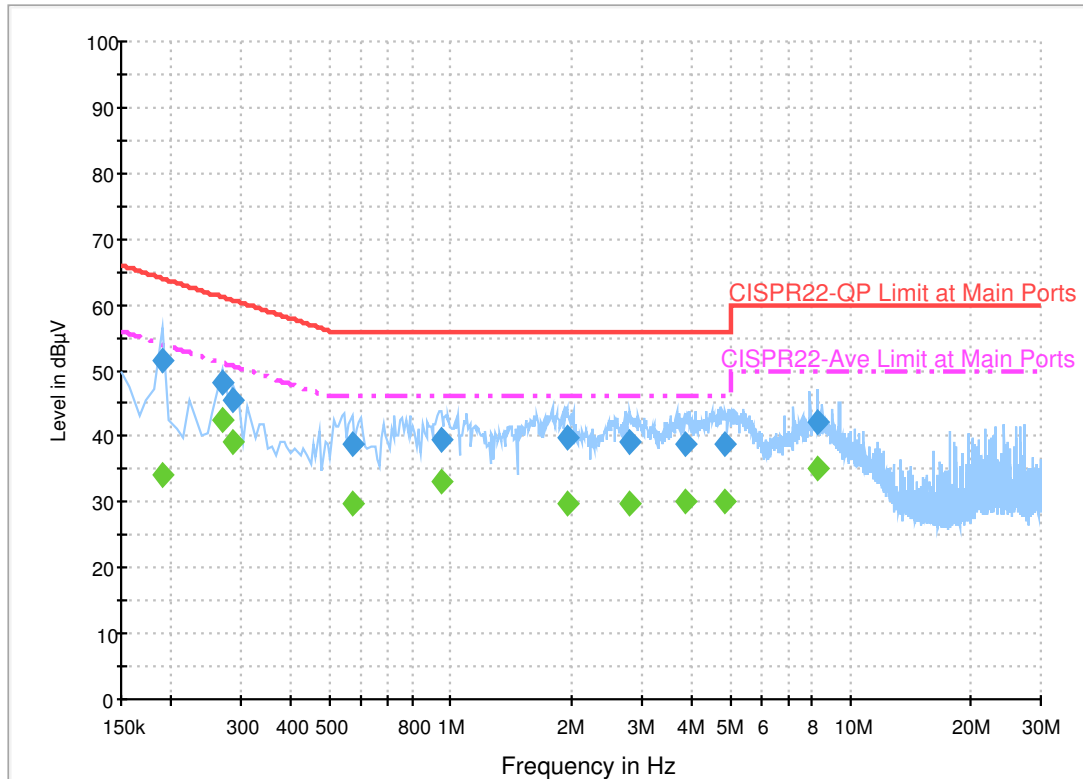
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Arthur Hsieh	Temperature :	23~24℃
		Relative Humidity :	51~53%

EUT Information

Report NO : 720930
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

ENV216 Auto Test FCC Power Bar - L



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.190000	51.4	Off	L1	19.6	12.6	64.0
0.270000	48.0	Off	L1	19.6	13.1	61.1
0.286000	45.3	Off	L1	19.6	15.3	60.6
0.566000	38.9	Off	L1	19.6	17.1	56.0
0.950000	39.6	Off	L1	19.6	16.4	56.0
1.958000	39.8	Off	L1	19.6	16.2	56.0
2.822000	39.3	Off	L1	19.5	16.7	56.0
3.862000	38.9	Off	L1	19.7	17.1	56.0
4.878000	38.9	Off	L1	19.8	17.1	56.0
8.310000	42.3	Off	L1	19.9	17.7	60.0

Final Result 2

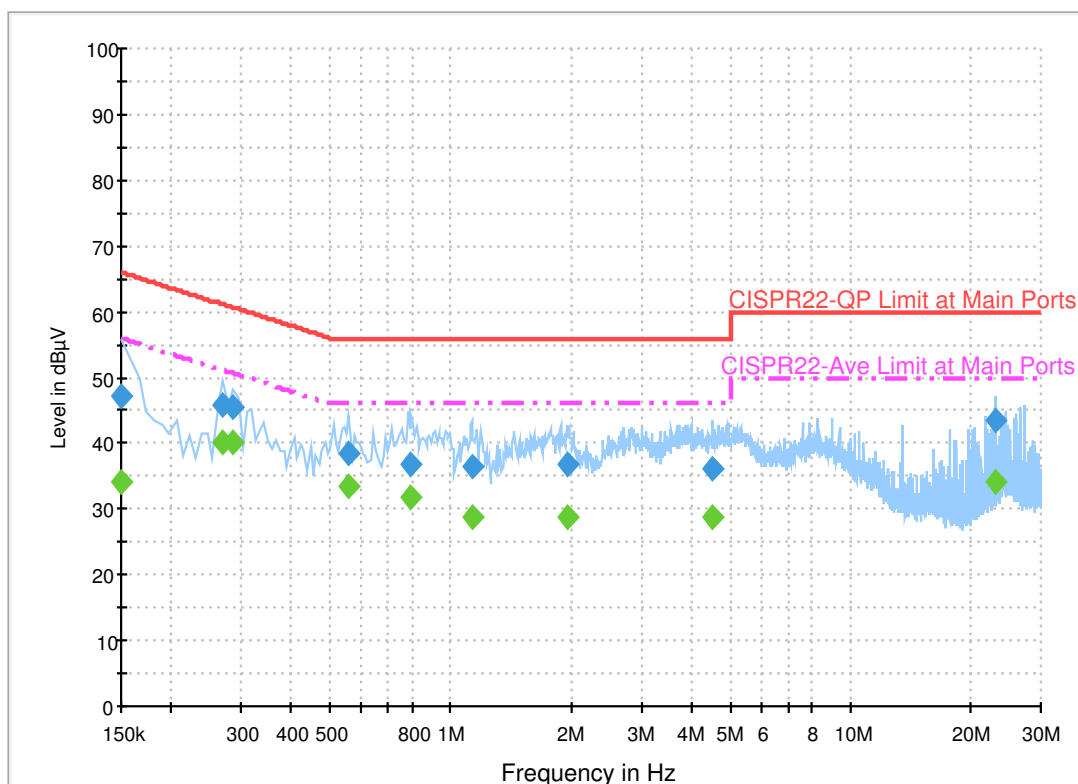
Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.190000	34.0	Off	L1	19.6	20.0	54.0
0.270000	42.6	Off	L1	19.6	8.5	51.1
0.286000	39.1	Off	L1	19.6	11.5	50.6
0.566000	29.8	Off	L1	19.6	16.2	46.0
0.950000	33.0	Off	L1	19.6	13.0	46.0
1.958000	29.9	Off	L1	19.6	16.1	46.0
2.822000	29.8	Off	L1	19.5	16.2	46.0
3.862000	30.0	Off	L1	19.7	16.0	46.0

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
4.878000	30.0	Off	L1	19.8	16.0	46.0
8.310000	35.2	Off	L1	19.9	14.8	50.0

EUT Information

Report NO : 720930
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	47.3	Off	N	19.5	18.7	66.0
0.270000	46.0	Off	N	19.5	15.1	61.1
0.286000	45.5	Off	N	19.5	15.1	60.6
0.558000	38.6	Off	N	19.5	17.4	56.0
0.798000	36.7	Off	N	19.5	19.3	56.0
1.134000	36.6	Off	N	19.6	19.4	56.0
1.958000	36.8	Off	N	19.6	19.2	56.0
4.510000	36.1	Off	N	19.7	19.9	56.0
23.126000	43.6	Off	N	20.9	16.4	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	34.0	Off	N	19.5	22.0	56.0
0.270000	40.2	Off	N	19.5	10.9	51.1
0.286000	40.2	Off	N	19.5	10.4	50.6
0.558000	33.3	Off	N	19.5	12.7	46.0
0.798000	31.6	Off	N	19.5	14.4	46.0
1.134000	28.9	Off	N	19.6	17.1	46.0
1.958000	28.9	Off	N	19.6	17.1	46.0
4.510000	28.7	Off	N	19.7	17.3	46.0
23.126000	34.0	Off	N	20.9	16.0	50.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Peter Liao, Nick Yu	Temperature :	21~25°C
		Relative Humidity :	55~57%



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2389.905	60.27	-13.73	74	47.21	27.07	7.45	31.49	110	179	P	H
		2390	52.93	-1.07	54	39.87	27.07	7.45	31.49	110	179	A	H
	*	2412	113.96	-	-	100.83	27.14	7.45	31.49	110	179	P	H
	*	2412	109.21	-	-	96.08	27.14	7.45	31.49	110	179	A	H
													H
													H
		2360.505	56.88	-17.12	74	44	26.98	7.37	31.5	112	259	P	V
		2390	45.03	-8.97	54	31.97	27.07	7.45	31.49	112	259	A	V
	*	2412	104.17	-	-	91.04	27.14	7.45	31.49	112	259	P	V
	*	2412	99.2	-	-	86.07	27.14	7.45	31.49	112	259	A	V
													V
													V
802.11b CH 06 2437MHz		2311.68	55.84	-18.16	74	43.19	26.84	7.3	31.52	109	175	P	H
		2389.66	44.12	-9.88	54	31.06	27.07	7.45	31.49	109	175	A	H
	*	2437	104.36	-	-	91.11	27.21	7.49	31.48	109	175	P	H
	*	2437	100.02	-	-	86.77	27.21	7.49	31.48	109	175	A	H
		2496.22	56.21	-17.79	74	42.72	27.39	7.53	31.46	109	175	P	H
		2484.95	44.45	-9.55	54	31.01	27.35	7.53	31.47	109	175	A	H
		2319.24	56.22	-17.78	74	43.54	26.86	7.3	31.51	100	272	P	V
		2363.34	44	-10	54	31.11	26.99	7.37	31.5	100	272	A	V
	*	2437	95.83	-	-	82.58	27.21	7.49	31.48	100	272	P	V
	*	2437	91.54	-	-	78.29	27.21	7.49	31.48	100	272	A	V
		2489.85	57.04	-16.96	74	43.58	27.37	7.53	31.47	100	272	P	V
		2494.33	44.5	-9.5	54	31.02	27.38	7.53	31.46	100	272	A	V



802.11b CH 11 2462MHz	*	2462	105.21	-	-	91.83	27.29	7.53	31.47	100	225	P	H
	*	2462	101.26	-	-	87.88	27.29	7.53	31.47	100	225	A	H
		2485.44	56.48	-17.52	74	43.03	27.36	7.53	31.47	100	225	P	H
		2484	44.62	-9.38	54	31.18	27.35	7.53	31.47	100	225	A	H
													H
													H
	*	2462	99.37	-	-	85.99	27.29	7.53	31.47	100	264	P	V
	*	2462	95.33	-	-	81.95	27.29	7.53	31.47	100	264	A	V
		2486.28	56.72	-17.28	74	43.27	27.36	7.53	31.47	100	264	P	V
		2489.44	44.48	-9.52	54	31.02	27.37	7.53	31.47	100	264	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	49.99	-24.01	74	64.85	32.18	10.74	58.31	100	0	P	H
													H
													H
													H
		4824	55.36	-18.64	74	70.22	32.18	10.74	58.31	276	192	P	V
		4824	53.64	-0.36	54	68.5	32.18	10.74	58.31	276	192	A	V
													V
													V
802.11b CH 06 2437MHz		4874	52.86	-21.14	74	67.42	32.27	10.89	58.24	241	154	P	H
		4874	50.82	-3.18	54	65.38	32.27	10.89	58.24	241	154	A	H
		7311	54.46	-19.54	74	62.05	36.97	14.18	59.09	197	124	P	H
		7311	51.61	-2.39	54	59.2	36.97	14.18	59.09	197	124	A	H
		4874	54.14	-19.86	74	68.7	32.27	10.89	58.24	250	188	P	V
		4874	52.02	-1.98	54	66.58	32.27	10.89	58.24	250	188	A	V
		7311	57.92	-16.08	74	65.51	36.97	14.18	59.09	100	216	P	V
		7311	53	-1	54	60.59	36.97	14.18	59.09	100	216	A	V
802.11b CH 11 2462MHz		4924	46.94	-27.06	74	61.72	32.36	11.04	58.18	100	0	P	H
		7386	54.54	-19.46	74	62.23	37.18	14.27	59.14	196	121	P	H
		7386	48.74	-5.26	54	56.43	37.18	14.27	59.14	196	121	A	H
													H
		4924	50.34	-23.66	74	65.12	32.36	11.04	58.18	263	185	P	V
		4924	47.59	-6.41	54	62.37	32.36	11.04	58.18	263	185	A	V
		7386	58.25	-15.75	74	65.94	37.18	14.27	59.14	388	194	P	V
		7386	53.46	-0.54	54	61.15	37.18	14.27	59.14	388	194	A	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		2389.59	67.49	-6.51	74	64.46	27.07	7.45	31.49	147	217	P	H
		2390	53.4	-0.6	54	50.37	27.07	7.45	31.49	147	217	A	H
	*	2412	111.39	-	-	108.29	27.14	7.45	31.49	147	217	P	H
	*	2412	101.68	-	-	98.58	27.14	7.45	31.49	147	217	A	H
													H
													H
		2390	56.93	-17.07	74	53.9	27.07	7.45	31.49	110	269	P	V
		2389.905	45.78	-8.22	54	42.75	27.07	7.45	31.49	110	269	A	V
	*	2412	103.83	-	-	100.73	27.14	7.45	31.49	110	269	P	V
	*	2412	94.38	-	-	91.28	27.14	7.45	31.49	110	269	A	V
													V
													V
802.11g CH 06 2437MHz		2334.5	55.44	-18.56	74	42.72	26.9	7.3	31.51	107	173	P	H
		2388.96	44.88	-9.12	54	31.82	27.07	7.45	31.49	107	173	A	H
	*	2437	109.31	-	-	96.06	27.21	7.49	31.48	107	173	P	H
	*	2437	100.33	-	-	87.08	27.21	7.49	31.48	107	173	A	H
		2490.13	56.31	-17.69	74	42.85	27.37	7.53	31.47	107	173	P	H
		2485.65	45.08	-8.92	54	31.63	27.36	7.53	31.47	107	173	A	H
		2375.24	56.07	-17.93	74	43.13	27.03	7.37	31.49	100	273	P	V
		2363.9	44.48	-9.52	54	31.59	26.99	7.37	31.5	100	273	A	V
	*	2437	101.96	-	-	88.71	27.21	7.49	31.48	100	273	P	V
	*	2437	92.08	-	-	78.83	27.21	7.49	31.48	100	273	A	V
		2486.91	60.97	-13.03	74	47.52	27.36	7.53	31.47	100	273	P	V
		2484.25	45.13	-8.87	54	31.69	27.35	7.53	31.47	100	273	A	V



802.11g CH 11 2462MHz	*	2462	110.97	-	-	107.62	27.29	7.53	31.47	164	234	P	H
	*	2462	99.98	-	-	96.63	27.29	7.53	31.47	164	234	A	H
		2483.6	70.03	-3.97	74	66.62	27.35	7.53	31.47	164	234	P	H
		2483.56	53.48	-0.52	54	50.07	27.35	7.53	31.47	164	234	A	H
													H
													H
	*	2462	105.36	-	-	102.01	27.29	7.53	31.47	100	269	P	V
	*	2462	95.15	-	-	91.8	27.29	7.53	31.47	100	269	A	V
		2484	66.57	-7.43	74	63.16	27.35	7.53	31.47	100	269	P	V
		2483.56	50.31	-3.69	54	46.9	27.35	7.53	31.47	100	269	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 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	47.43	-26.57	74	62.29	32.18	10.74	58.31	100	0	P	H
													H
													H
													H
		4824	53.95	-20.05	74	68.81	32.18	10.74	58.31	254	189	P	V
		4824	39.68	-14.32	54	54.54	32.18	10.74	58.31	254	189	A	V
													V
													V
802.11g CH 06 2437MHz		4874	53.67	-20.33	74	68.23	32.27	10.89	58.24	241	153	P	H
		4874	40.89	-13.11	54	55.45	32.27	10.89	58.24	241	153	A	H
		7311	64.77	-9.23	74	72.36	36.97	14.18	59.09	198	120	P	H
		7311	49.59	-4.41	54	57.18	36.97	14.18	59.09	198	120	A	H
		4874	55.36	-18.64	74	69.92	32.27	10.89	58.24	337	184	P	V
		4874	43.42	-10.58	54	57.98	32.27	10.89	58.24	337	184	A	V
		7311	69.2	-4.8	74	76.79	36.97	14.18	59.09	381	193	P	V
		7311	53.64	-0.36	54	61.23	36.97	14.18	59.09	381	193	A	V
802.11g CH 11 2462MHz		4924	47.14	-26.86	74	61.42	32.36	11.04	58.18	100	0	P	H
		7386	66.65	-7.35	74	74.05	37.18	14.27	59.14	194	122	P	H
		7386	49.25	-4.75	54	56.65	37.18	14.27	59.14	194	122	A	H
													H
		4924	48.65	-25.35	74	62.93	32.36	11.04	58.18	100	0	P	V
		7386	70.63	-3.37	74	78.03	37.18	14.27	59.14	103	215	P	V
		7386	52.54	-1.46	54	59.94	37.18	14.27	59.14	103	215	A	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		2390	70.38	-3.62	74	67.35	27.07	7.45	31.49	146	220	P	H
		2390	53.9	-0.1	54	50.87	27.07	7.45	31.49	146	220	A	H
	*	2412	110.6	-	-	107.5	27.14	7.45	31.49	146	220	P	H
	*	2412	100.5	-	-	97.4	27.14	7.45	31.49	146	220	A	H
													H
													H
		2389.905	56.92	-17.08	74	53.89	27.07	7.45	31.49	111	268	P	V
		2389.905	46.19	-7.81	54	43.16	27.07	7.45	31.49	111	268	A	V
	*	2412	102.69	-	-	99.59	27.14	7.45	31.49	111	268	P	V
	*	2412	93.22	-	-	90.12	27.14	7.45	31.49	111	268	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2371.88	56.12	-17.88	74	43.19	27.02	7.37	31.49	110	174	P	H
		2388.68	44.98	-9.02	54	31.92	27.07	7.45	31.49	110	174	A	H
	*	2437	110.08	-	-	96.83	27.21	7.49	31.48	110	174	P	H
	*	2437	100.32	-	-	87.07	27.21	7.49	31.48	110	174	A	H
		2489.5	56.41	-17.59	74	42.95	27.37	7.53	31.47	110	174	P	H
		2484.04	45.46	-8.54	54	32.02	27.35	7.53	31.47	110	174	A	H
		2368.1	55.95	-18.05	74	43.04	27	7.37	31.49	102	265	P	V
		2382.52	44.54	-9.46	54	31.5	27.05	7.45	31.49	102	265	A	V
	*	2437	102.22	-	-	88.97	27.21	7.49	31.48	102	265	P	V
	*	2437	92.66	-	-	79.41	27.21	7.49	31.48	102	265	A	V
		2494.82	56.21	-17.79	74	42.73	27.38	7.53	31.46	102	265	P	V
		2484.25	45.02	-8.98	54	31.58	27.35	7.53	31.47	102	265	A	V



802.11n HT20 CH 11 2462MHz	*	2462	109.3	-	-	105.95	27.29	7.53	31.47	167	230	P	H
	*	2462	99.39	-	-	96.04	27.29	7.53	31.47	167	230	A	H
		2483.96	69.41	-4.59	74	66	27.35	7.53	31.47	167	230	P	H
		2483.52	53.55	-0.45	54	50.14	27.35	7.53	31.47	167	230	A	H
													H
													H
	*	2462	104.3	-	-	100.95	27.29	7.53	31.47	100	270	P	V
	*	2462	93.63	-	-	90.28	27.29	7.53	31.47	100	270	A	V
		2484.88	67.09	-6.91	74	63.68	27.35	7.53	31.47	100	270	P	V
		2483.64	50.3	-3.7	54	46.89	27.35	7.53	31.47	100	270	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	46.05	-27.95	74	60.91	32.18	10.74	58.31	100	0	P	H
													H
													H
													H
		4824	50.48	-23.52	74	65.34	32.18	10.74	58.31	100	0	P	V
													V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	50.75	-23.25	74	65.31	32.27	10.89	58.24	100	0	P	H
		7311	68.04	-5.96	74	75.63	36.97	14.18	59.09	199	123	P	H
		7311	50.93	-3.07	54	58.52	36.97	14.18	59.09	199	123	A	H
													H
		4874	56.19	-17.81	74	70.75	32.27	10.89	58.24	302	191	P	V
		4874	42.36	-11.64	54	56.92	32.27	10.89	58.24	302	191	A	V
		7311	71.26	-2.74	74	78.85	36.97	14.18	59.09	100	214	P	V
		7311	53.83	-0.17	54	61.42	36.97	14.18	59.09	100	214	A	V
802.11n HT20 CH 11 2462MHz		4924	46.55	-27.45	74	60.83	32.36	11.04	58.18	100	0	P	H
		7386	66	-8	74	73.4	37.18	14.27	59.14	195	124	P	H
		7386	46.44	-7.56	54	53.84	37.18	14.27	59.14	195	124	A	H
													H
		4924	48.31	-25.69	74	62.59	32.36	11.04	58.18	100	0	P	V
		7386	68.76	-5.24	74	76.16	37.18	14.27	59.14	103	208	P	V
		7386	49.58	-4.42	54	56.98	37.18	14.27	59.14	103	208	A	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		2389.8	66.1	-7.9	74	63.07	27.07	7.45	31.49	145	223	P	H
		2389.8	53.78	-0.22	54	50.75	27.07	7.45	31.49	145	223	A	H
	*	2422	105.28	-	-	102.1	27.17	7.49	31.48	145	223	P	H
	*	2422	95.61	-	-	92.43	27.17	7.49	31.48	145	223	A	H
		2484.18	56.27	-17.73	74	52.86	27.35	7.53	31.47	145	223	P	H
		2487.26	46	-8	54	42.58	27.36	7.53	31.47	145	223	A	H
		2389.8	58.9	-15.1	74	55.87	27.07	7.45	31.49	104	269	P	V
		2389.94	46.72	-7.28	54	43.69	27.07	7.45	31.49	104	269	A	V
	*	2422	98.52	-	-	95.34	27.17	7.49	31.48	104	269	P	V
	*	2422	89.4	-	-	86.22	27.17	7.49	31.48	104	269	A	V
		2488.66	55.68	-18.32	74	52.25	27.37	7.53	31.47	104	269	P	V
		2486.77	45.43	-8.57	54	42.01	27.36	7.53	31.47	104	269	A	V
802.11n HT40 CH 06 2437MHz		2389.66	59.82	-14.18	74	56.79	27.07	7.45	31.49	168	234	P	H
		2389.94	48.67	-5.33	54	45.64	27.07	7.45	31.49	168	234	A	H
	*	2437	108.16	-	-	104.94	27.21	7.49	31.48	168	234	P	H
	*	2437	98.62	-	-	95.4	27.21	7.49	31.48	168	234	A	H
		2484.53	65.94	-8.06	74	62.53	27.35	7.53	31.47	168	234	P	H
		2483.5	53.12	-0.88	54	49.71	27.35	7.53	31.47	168	234	A	H
		2380.42	56.22	-17.78	74	53.22	27.04	7.45	31.49	100	269	P	V
		2389.52	45.49	-8.51	54	42.46	27.07	7.45	31.49	100	269	A	V
	*	2437	102.37	-	-	99.15	27.21	7.49	31.48	100	269	P	V
	*	2437	92.9	-	-	89.68	27.21	7.49	31.48	100	269	A	V
		2484.32	62.71	-11.29	74	59.3	27.35	7.53	31.47	100	269	P	V
		2483.62	49.59	-4.41	54	46.18	27.35	7.53	31.47	100	269	A	V



802.11n HT40 CH 09 2452MHz		2347.52	55.52	-18.48	74	52.71	26.94	7.37	31.5	166	232	P	H
		2372.72	45.29	-8.71	54	42.39	27.02	7.37	31.49	166	232	A	H
	*	2452	105.39	-	-	102.11	27.26	7.49	31.47	166	232	P	H
	*	2452	95.74	-	-	92.46	27.26	7.49	31.47	166	232	A	H
		2484.53	65.01	-8.99	74	61.6	27.35	7.53	31.47	166	232	P	H
		2483.62	53.53	-0.47	54	50.12	27.35	7.53	31.47	166	232	A	H
		2381.12	55.53	-18.47	74	52.53	27.04	7.45	31.49	100	269	P	V
		2386.02	45.35	-8.65	54	42.33	27.06	7.45	31.49	100	269	A	V
	*	2452	99.66	-	-	96.38	27.26	7.49	31.47	100	269	P	V
	*	2452	89.95	-	-	86.67	27.26	7.49	31.47	100	269	A	V
		2484.04	60.67	-13.33	74	57.26	27.35	7.53	31.47	100	269	P	V
		2483.69	50.32	-3.68	54	46.91	27.35	7.53	31.47	100	269	A	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 (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 HT40 CH 03 2422MHz		4844	42.84	-31.16	74	57.64	32.22	10.74	58.29	100	0	P	H
		7266	50.08	-23.92	74	57.79	36.84	14.14	59.07	100	0	P	H
													H
													H
		4844	45.17	-28.83	74	59.97	32.22	10.74	58.29	100	0	P	V
		7266	56.39	-17.61	74	64.1	36.84	14.14	59.07	100	216	P	V
		7266	41.93	-12.07	54	49.64	36.84	14.14	59.07	100	216	A	V
													V
802.11n HT40 CH 06 2437MHz		4874	43.64	-30.36	74	58.2	32.27	10.89	58.24	100	0	P	H
		7311	59.75	-14.25	74	67.34	36.97	14.18	59.09	210	123	P	H
		7311	43.02	-10.98	54	50.61	36.97	14.18	59.09	210	123	A	H
													H
		4874	46.29	-27.71	74	60.85	32.27	10.89	58.24	100	0	P	V
		7311	62.92	-11.08	74	70.51	36.97	14.18	59.09	100	214	P	V
		7311	47.17	-6.83	54	54.76	36.97	14.18	59.09	100	214	A	V
													V
802.11n HT40 CH 09 2452MHz		4904	50.71	-23.29	74	65.54	32.33	11.04	58.2	100	0	P	H
		7356	56.72	-17.28	74	64.52	37.1	14.22	59.12	198	122	P	H
		7356	41.61	-12.39	54	49.41	37.1	14.22	59.12	198	122	A	H
													H
		4904	56.75	-17.25	74	71.58	32.33	11.04	58.2	248	184	P	V
		4904	44.52	-9.48	54	59.35	32.33	11.04	58.2	248	184	A	V
		7356	61.16	-12.84	74	68.96	37.1	14.22	59.12	379	193	P	V
		7356	45.42	-8.58	54	53.22	37.1	14.22	59.12	379	193	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI Ant. 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)
2.4GHz 802.11n HT20 LF		39.72	27.02	-12.98	40	39.17	19.57	0.78	32.49			P	H
		250.86	30.43	-15.57	46	41.94	18.88	1.83	32.38			P	H
		290.01	27.77	-18.23	46	38.7	19.08	2.25	32.37			P	H
		676.6	41.01	-4.99	46	42.96	26.59	3.82	32.47	100	0	P	H
		925.1	33.27	-12.73	46	29.95	29.94	4.6	31.43			P	H
		962.9	34.4	-19.6	54	29.4	31.1	4.75	31.08			P	H
													H
													H
													H
													H
													H
		39.99	34.63	-5.37	40	46.78	19.57	0.78	32.49	100	231	QP	V
		78.87	24.94	-15.06	40	43.13	13.17	1.06	32.48			P	V
		251.13	28.32	-17.68	46	39.83	18.88	1.83	32.38			P	V
		483.4	29.05	-16.95	46	34.43	23.85	3.08	32.37			P	V
		676.6	34.82	-11.18	46	36.77	26.59	3.82	32.47			P	V
		967.1	36.41	-17.59	54	31.38	31.09	4.75	31.04			P	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”.



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n HT20 CH 01 2412MHz		2389.695	70.17	-3.83	74	67.14	27.07	7.45	31.49	168	167	P	H
		2389.905	53.44	-0.56	54	50.41	27.07	7.45	31.49	168	167	A	H
	*	2412	109.2	-	-	106.1	27.14	7.45	31.49	168	167	P	H
	*	2412	99.16	-	-	96.06	27.14	7.45	31.49	168	167	A	H
													H
													H
		2390	59.31	-14.69	74	56.28	27.07	7.45	31.49	104	292	P	V
		2389.59	46.41	-7.59	54	43.38	27.07	7.45	31.49	104	292	A	V
	*	2412	101.65	-	-	98.55	27.14	7.45	31.49	104	292	P	V
	*	2412	91.4	-	-	88.3	27.14	7.45	31.49	104	292	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2355.08	56.46	-17.54	74	43.59	26.97	7.37	31.5	108	174	P	H
		2353.96	44.46	-9.54	54	31.6	26.96	7.37	31.5	108	174	A	H
	*	2437	108.78	-	-	95.53	27.21	7.49	31.48	108	174	P	H
	*	2437	98.48	-	-	85.23	27.21	7.49	31.48	108	174	A	H
		2495.8	56.09	-17.91	74	42.6	27.39	7.53	31.46	108	174	P	H
		2488.52	44.89	-9.11	54	31.43	27.37	7.53	31.47	108	174	A	H
		2318.4	55.55	-18.45	74	42.87	26.86	7.3	31.51	100	274	P	V
		2382.66	44.62	-9.38	54	31.58	27.05	7.45	31.49	100	274	A	V
	*	2437	99.73	-	-	86.48	27.21	7.49	31.48	100	274	P	V
	*	2437	90.08	-	-	76.83	27.21	7.49	31.48	100	274	A	V
		2484.95	55.81	-18.19	74	42.37	27.35	7.53	31.47	100	274	P	V
		2499.51	44.85	-9.15	54	31.35	27.4	7.53	31.46	100	274	A	V



802.11n HT20 CH 11 2462MHz	*	2462	107.71	-	-	104.36	27.29	7.53	31.47	142	228	P	H
	*	2462	97.53	-	-	94.18	27.29	7.53	31.47	142	228	A	H
		2485.2	70.31	-3.69	74	66.89	27.36	7.53	31.47	142	228	P	H
		2483.52	53.02	-0.98	54	49.61	27.35	7.53	31.47	142	228	A	H
													H
													H
	*	2462	103.77	-	-	100.42	27.29	7.53	31.47	100	273	P	V
	*	2462	93.28	-	-	89.93	27.29	7.53	31.47	100	273	A	V
		2484.68	64.27	-9.73	74	60.86	27.35	7.53	31.47	100	273	P	V
		2483.52	49.74	-4.26	54	46.33	27.35	7.53	31.47	100	273	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+2	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	59.92	-14.08	74	74.78	32.18	10.74	58.31	112	149	P	H
		4824	45.07	-8.93	54	59.93	32.18	10.74	58.31	112	149	A	H
													H
													H
		4824	66.26	-7.74	74	81.12	32.18	10.74	58.31	228	180	P	V
		4824	51.01	-2.99	54	65.87	32.18	10.74	58.31	228	180	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		4874	66.55	-7.45	74	81.11	32.27	10.89	58.24	100	150	P	H
		4874	49.58	-4.42	54	64.14	32.27	10.89	58.24	100	150	A	H
		7311	67.59	-6.41	74	75.18	36.97	14.18	59.09	202	118	P	H
		7311	51.12	-2.88	54	58.71	36.97	14.18	59.09	202	118	A	H
		4874	70.54	-3.46	74	85.1	32.27	10.89	58.24	224	182	P	V
		4874	53.77	-0.23	54	68.33	32.27	10.89	58.24	224	182	A	V
		7311	69.97	-4.03	74	77.56	36.97	14.18	59.09	371	192	P	V
		7311	53.35	-0.65	54	60.94	36.97	14.18	59.09	371	192	A	V
802.11n HT20 CH 11 2462MHz		4924	59.96	-14.04	74	74.24	32.36	11.04	58.18	100	148	P	H
		4924	45.02	-8.98	54	59.3	32.36	11.04	58.18	100	148	A	H
		7386	67.89	-6.11	74	75.29	37.18	14.27	59.14	202	120	P	H
		7386	47.61	-6.39	54	55.01	37.18	14.27	59.14	202	120	A	H
		4924	62.94	-11.06	74	77.22	32.36	11.04	58.18	218	185	P	V
		4924	48.09	-5.91	54	62.37	32.36	11.04	58.18	218	185	A	V
		7386	70.41	-3.59	74	77.81	37.18	14.27	59.14	389	195	P	V
		7386	51.84	-2.16	54	59.24	37.18	14.27	59.14	389	195	A	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+2	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		2388.12	64.91	-9.09	74	61.89	27.06	7.45	31.49	169	169	P	H
		2389.94	53.59	-0.41	54	50.56	27.07	7.45	31.49	169	169	A	H
	*	2422	103.27	-	-	100.09	27.17	7.49	31.48	169	169	P	H
	*	2422	94.29	-	-	91.11	27.17	7.49	31.48	169	169	A	H
		2493.28	55.96	-18.04	74	52.51	27.38	7.53	31.46	169	169	P	H
		2488.73	45.58	-8.42	54	42.15	27.37	7.53	31.47	169	169	A	H
		2389.38	57.03	-16.97	74	54	27.07	7.45	31.49	104	273	P	V
		2389.8	46.25	-7.75	54	43.22	27.07	7.45	31.49	104	273	A	V
	*	2422	96.99	-	-	93.81	27.17	7.49	31.48	104	273	P	V
	*	2422	88.78	-	-	85.6	27.17	7.49	31.48	104	273	A	V
		2485.79	56.26	-17.74	74	52.84	27.36	7.53	31.47	104	273	P	V
		2497.9	45.62	-8.38	54	42.16	27.39	7.53	31.46	104	273	A	V
802.11n HT40 CH 06 2437MHz		2389.8	64.25	-9.75	74	51.19	27.07	7.45	31.49	109	173	P	H
		2389.8	51.89	-2.11	54	38.83	27.07	7.45	31.49	109	173	A	H
	*	2437	107.9	-	-	94.65	27.21	7.49	31.48	109	173	P	H
	*	2437	99	-	-	85.75	27.21	7.49	31.48	109	173	A	H
		2485.09	66.35	-7.65	74	52.9	27.36	7.53	31.47	109	173	P	H
		2483.5	53.21	-0.79	54	39.77	27.35	7.53	31.47	109	173	A	H
		2332.26	55.96	-18.04	74	43.24	26.9	7.3	31.51	100	262	P	V
		2388.12	45.66	-8.34	54	32.61	27.06	7.45	31.49	100	262	A	V
	*	2437	99.64	-	-	86.39	27.21	7.49	31.48	100	262	P	V
	*	2437	91.06	-	-	77.81	27.21	7.49	31.48	100	262	A	V
		2484.46	63.96	-10.04	74	50.52	27.35	7.53	31.47	100	262	P	V
		2483.5	51.24	-2.76	54	37.8	27.35	7.53	31.47	100	262	A	V



802.11n HT40 CH 09 2452MHz		2372.44	55.77	-18.23	74	52.87	27.02	7.37	31.49	168	225	P	H
		2389.52	45.29	-8.71	54	42.26	27.07	7.45	31.49	168	225	A	H
	*	2452	103.57	-	-	100.29	27.26	7.49	31.47	168	225	P	H
	*	2452	93.96	-	-	90.68	27.26	7.49	31.47	168	225	A	H
		2484.46	64.2	-9.8	74	60.79	27.35	7.53	31.47	168	225	P	H
		2483.62	53.37	-0.63	54	49.96	27.35	7.53	31.47	168	225	A	H
		2369.36	56.02	-17.98	74	53.13	27.01	7.37	31.49	100	270	P	V
		2369.5	45.42	-8.58	54	42.53	27.01	7.37	31.49	100	270	A	V
	*	2452	99.43	-	-	96.15	27.26	7.49	31.47	100	270	P	V
	*	2452	89.74	-	-	86.46	27.26	7.49	31.47	100	270	A	V
		2484.6	61.32	-12.68	74	57.91	27.35	7.53	31.47	100	270	P	V
		2483.5	50.31	-3.69	54	46.9	27.35	7.53	31.47	100	270	A	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 (Harmonic @ 3m)

WIFI Ant. 1+2	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		4844	56.13	-17.87	74	70.93	32.22	10.74	58.29	100	147	P	H
		4844	41.9	-12.1	54	56.7	32.22	10.74	58.29	100	147	A	H
		7266	55.97	-18.03	74	63.68	36.84	14.14	59.07	202	119	P	H
		7266	41.51	-12.49	54	49.22	36.84	14.14	59.07	202	119	A	H
		4844	60.89	-13.11	74	75.69	32.22	10.74	58.29	255	181	P	V
		4844	48.11	-5.89	54	62.91	32.22	10.74	58.29	255	181	A	V
		7266	58.19	-15.81	74	65.9	36.84	14.14	59.07	374	193	P	V
		7266	43.79	-10.21	54	51.5	36.84	14.14	59.07	374	193	A	V
802.11n HT40 CH 06 2437MHz		4874	55.23	-18.77	74	69.79	32.27	10.89	58.24	257	155	P	H
		4874	43.2	-10.8	54	57.76	32.27	10.89	58.24	257	155	A	H
		7311	56.53	-17.47	74	64.12	36.97	14.18	59.09	197	119	P	H
		7311	45.58	-8.42	54	53.17	36.97	14.18	59.09	197	119	A	H
		4874	60.5	-13.5	74	75.06	32.27	10.89	58.24	225	186	P	V
		4874	48.51	-5.49	54	63.07	32.27	10.89	58.24	225	186	A	V
		7311	62.96	-11.04	74	70.55	36.97	14.18	59.09	384	194	P	V
		7311	50.73	-3.27	54	58.32	36.97	14.18	59.09	384	194	A	V
802.11n HT40 CH 09 2452MHz		4904	54.29	-19.71	74	69.12	32.33	11.04	58.2	100	152	P	H
		4904	42.07	-11.93	54	56.9	32.33	11.04	58.2	100	152	A	H
		7356	57.08	-16.92	74	64.88	37.1	14.22	59.12	200	120	P	H
		7356	41.56	-12.44	54	49.36	37.1	14.22	59.12	200	120	A	H
		4904	57.26	-16.74	74	72.09	32.33	11.04	58.2	138	185	P	V
		4904	45.08	-8.92	54	59.91	32.33	11.04	58.2	138	185	A	V
		7356	61.12	-12.88	74	68.92	37.1	14.22	59.12	395	192	P	V
		7356	47.08	-6.92	54	54.88	37.1	14.22	59.12	395	192	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT20 (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT20 LF		72.66	27.3	-12.7	40	46.14	12.54	1.06	32.49			P	H
		254.64	31.1	-14.9	46	42.11	19.39	1.83	32.38			P	H
		290.28	29.83	-16.17	46	40.76	19.08	2.25	32.37			P	H
		628.3	32.18	-13.82	46	34.45	26.48	3.61	32.46			P	H
		676.6	39.71	-6.29	46	41.66	26.59	3.82	32.47	100	0	P	H
		979.7	34.02	-19.98	54	28.89	31.08	4.75	30.93			P	H
													H
													H
													H
													H
													H
		39.99	35.24	-4.76	40	47.39	19.57	0.78	32.49	100	261	QP	V
		261.39	28.72	-17.28	46	38.78	19.92	2.25	32.38			P	V
		290.01	25.64	-20.36	46	36.57	19.08	2.25	32.37			P	V
		676.6	33.56	-12.44	46	35.51	26.59	3.82	32.47			P	V
		881	32.81	-13.19	46	30.78	29.19	4.45	31.76			P	V
		967.1	35.97	-18.03	54	30.94	31.09	4.75	31.04			P	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+2		(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

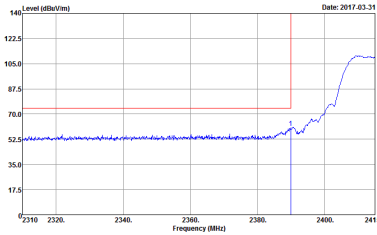
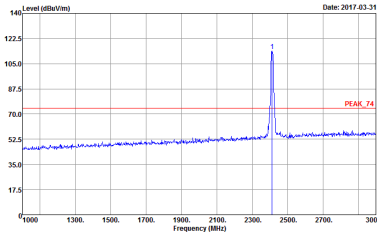
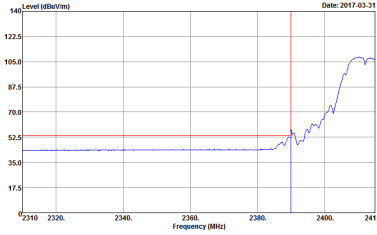
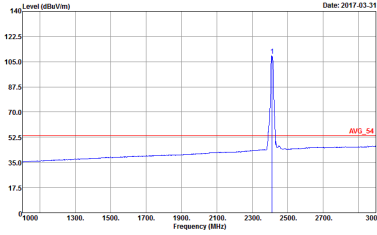
Test Engineer :	Peter Liao, Nick Yu	Temperature :	21~25°C
		Relative Humidity :	55~57%

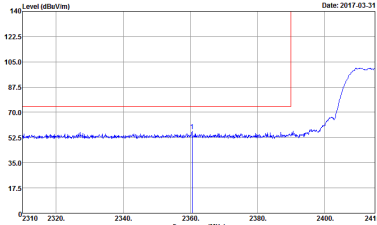
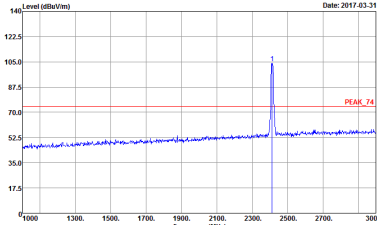
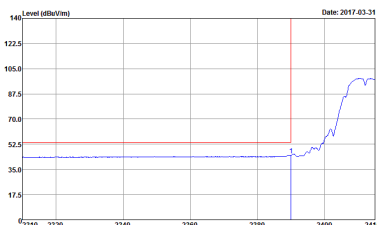
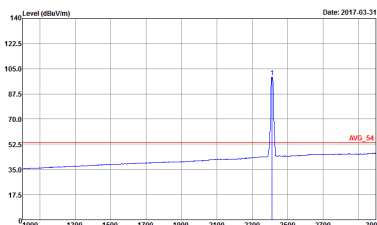
Note symbol

-L	Low channel location
-R	High channel location

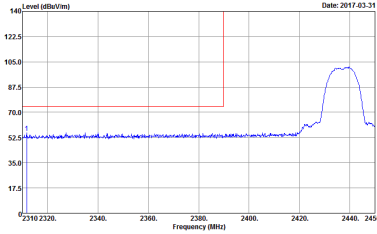
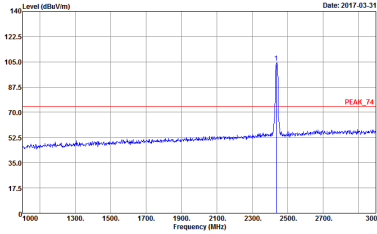
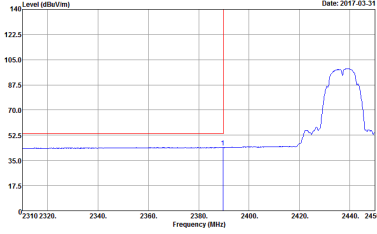
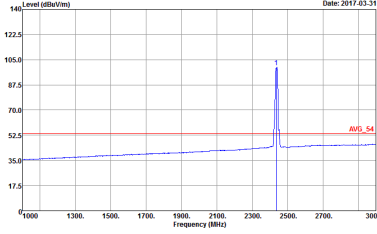
2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

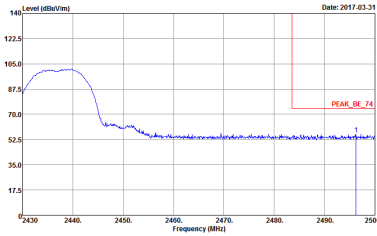
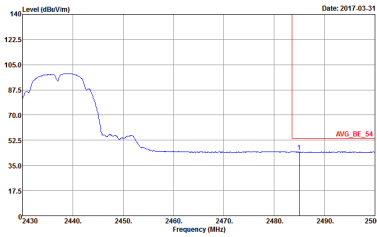
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 1 Setting : 15	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 1 Setting : 15
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 720930 Mode : 1 Setting : 15	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 720930 Mode : 1 Setting : 15

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY PEAK, RE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 1 Setting : 15	 Site Condition : 03CH12-HY PEAK, 74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 1 Setting : 15
Avg.	 Site Condition : 03CH12-HY AVG, RE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:0.300KHz SWT:Auto Detector : Peak Project : 720930 Mode : 1 Setting : 15	 Site Condition : 03CH12-HY AVG, 54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:0.300KHz SWT:Auto Detector : Peak Project : 720930 Mode : 1 Setting : 15

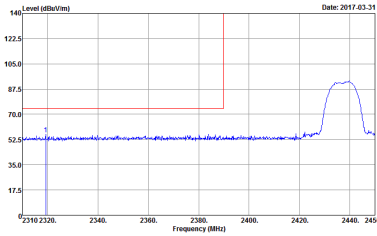
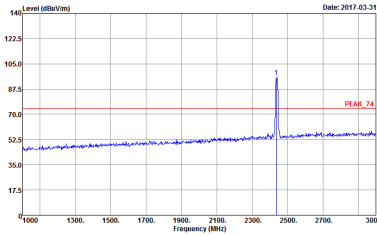
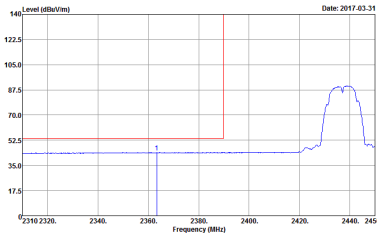
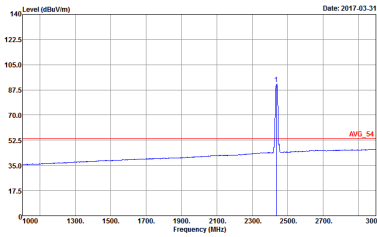


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK, RE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Date: 2017-03-31	 Site : 03CH12-HY Condition : PEAK, 74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Date: 2017-03-31
Avg.	 Site : 03CH12-HY Condition : AVG, RE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Project : Peak Mode : 720930 Date: 2017-03-31	 Site : 03CH12-HY Condition : AVG, 54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Project : Peak Mode : 720930 Date: 2017-03-31

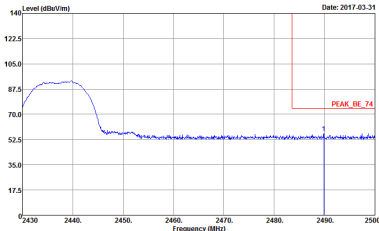
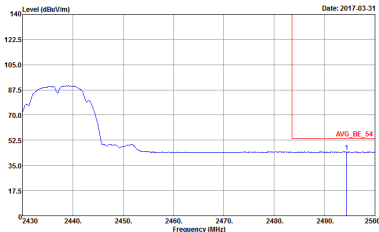


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site: 03CH12-HY Condition: PEAK_BE_74 3m HORN_91200_1338 HORIZONTAL Detector: RBW:1000.000KHz VSW:3.000KHz SWT:auto Project: Peak Mode: 720930 : 2 Date: 2017-03-31	Left blank
Avg.	 Site: 03CH12-HY Condition: AVG_BE_54 3m HORN_91200_1338 HORIZONTAL Detector: RBW:1000.000KHz VSW:3.000KHz SWT:auto Project: Peak Mode: 720930 : 2 Date: 2017-03-31	Left blank

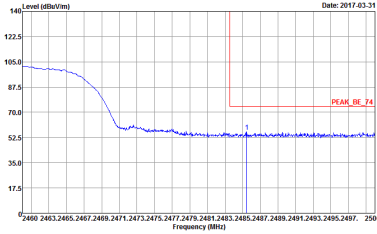
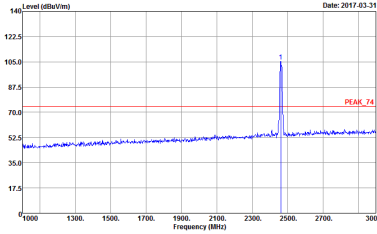
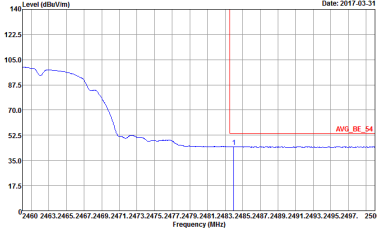
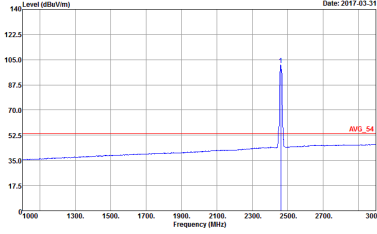


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK, RE_74 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Date: 2017-03-31	 Site : 03CH12-HY Condition : PEAK, 74 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Date: 2017-03-31
Avg.	 Site : 03CH12-HY Condition : AVG, RE_54 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Project : Peak Mode : 720930 Date: 2017-03-31	 Site : 03CH12-HY Condition : AVG, 54 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Project : Peak Mode : 720930 Date: 2017-03-31

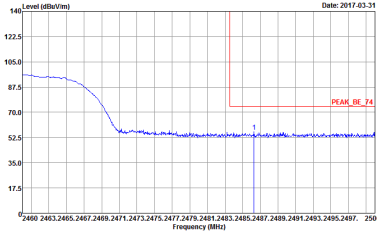
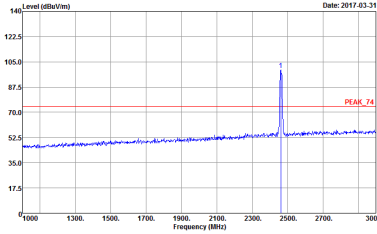
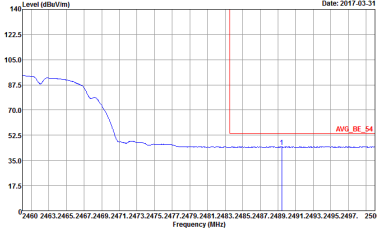
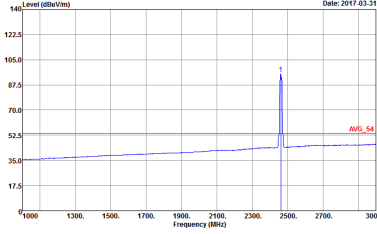


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site: 03CH12-HY Condition: PEAK_BE_74 3m HORN_91200_1378 VERTICAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project: Peak Mode: 720930 : 2	Left blank
Avg.	 Site: 03CH12-HY Condition: AVG_BE_54 3m HORN_91200_1378 VERTICAL Detector: RBW:1000.000KHz VBW:0.300KHz SWT:Auto Project: Peak Mode: 720930 : 2	Left blank

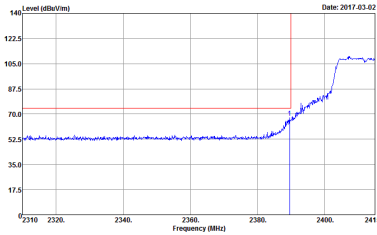
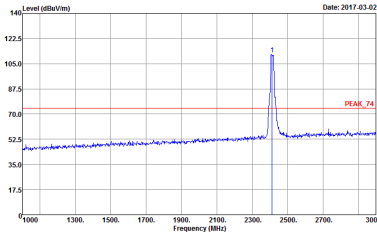
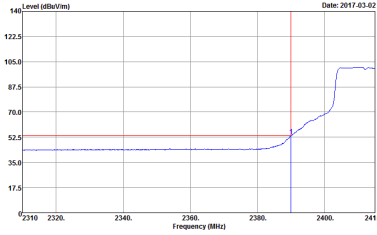
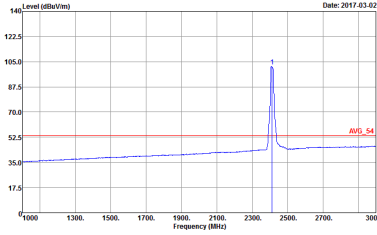


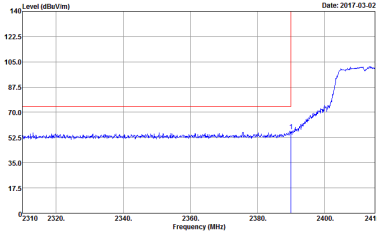
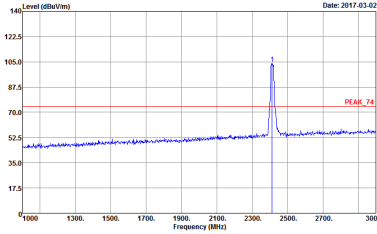
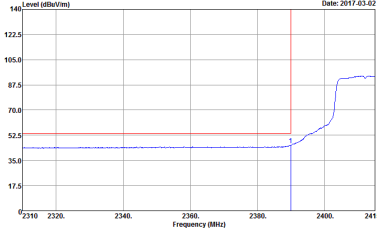
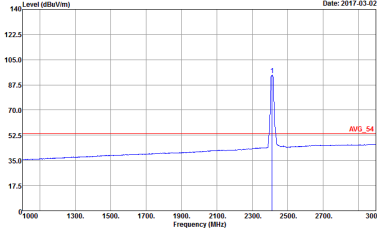
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 3 : 05	 Site Condition : 03CH12-HY PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 3 : 05
Avg.	 Site Condition : 03CH12-HY AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Project : Peak Mode : 720930 Setting : 3 : 05	 Site Condition : 03CH12-HY AVG_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Project : Peak Mode : 720930 Setting : 3 : 05

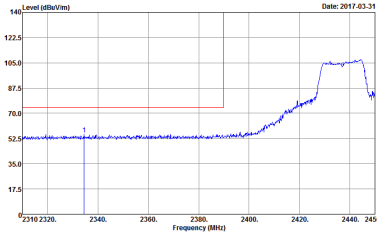
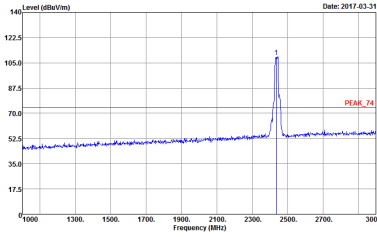
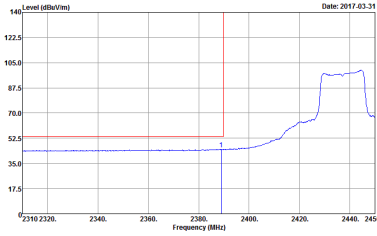
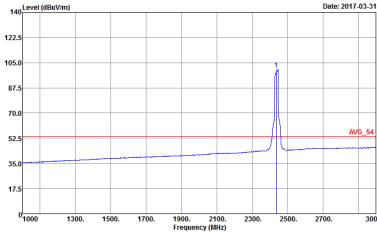


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 3 Setting : 05	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 3 Setting : 05
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:0.300KHz SWT:Auto Detector : Peak Project : 720930 Mode : 3 Setting : 05	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:0.300KHz SWT:Auto Detector : Peak Project : 720930 Mode : 3 Setting : 05

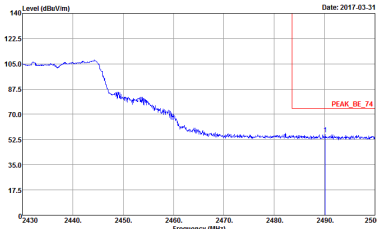
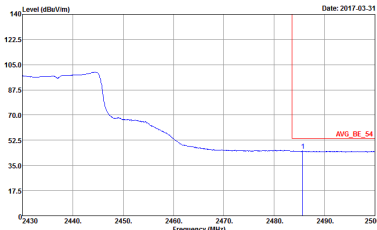
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Band Edge @ 3m)

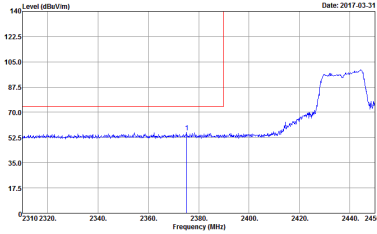
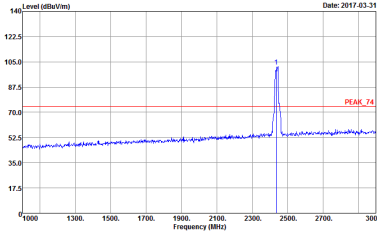
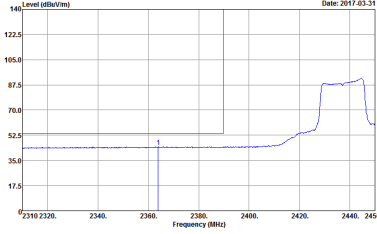
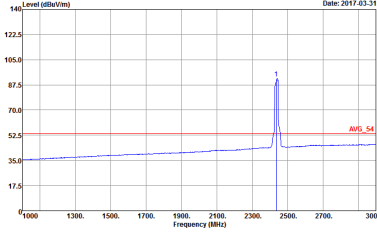
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 4 Setting : 0C	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 4 Setting : 0C
	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 4 Setting : 0C	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 4 Setting : 0C

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY PEAK, RE_74 3m HORN_9120D_1338 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 4 Setting : 0C	 Site Condition : 03CH12-HY PEAK, 74 3m HORN_9120D_1338 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 4 Setting : 0C
Avg.	 Site Condition : 03CH12-HY AVG, RE_54 3m HORN_9120D_1338 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 4 Setting : 0C	 Site Condition : 03CH12-HY AVG, 54 3m HORN_9120D_1338 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 4 Setting : 0C

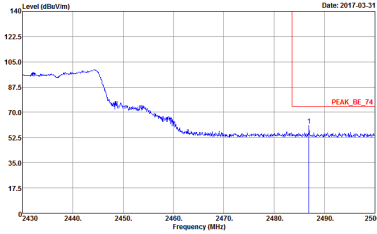
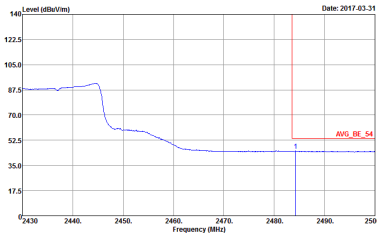
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, BE, 74 3m HORN, 9120D, 1328 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 5 Setting : 0B	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN, 9120D, 1328 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 5 Setting : 0B
Avg.	 Site Condition : 03CH12-HY : AVG, BE, 54 3m HORN, 9120D, 1328 HORIZONTAL : RBW:1000.000KHz VSW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 5 Setting : 0B	 Site Condition : 03CH12-HY : AVG, 54 3m HORN, 9120D, 1328 HORIZONTAL : RBW:1000.000KHz VSW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 5 Setting : 0B

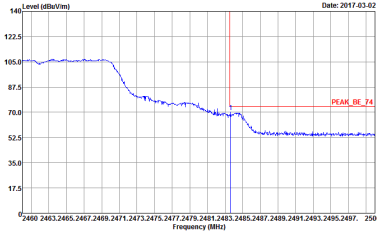
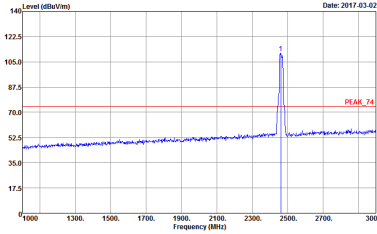
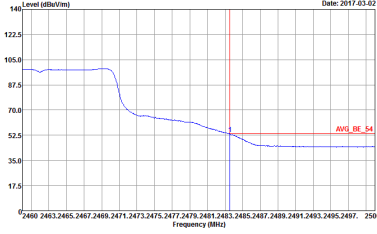
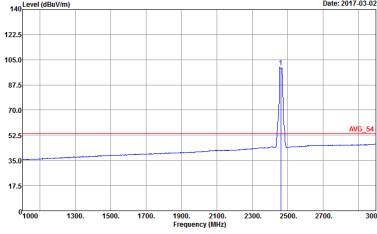


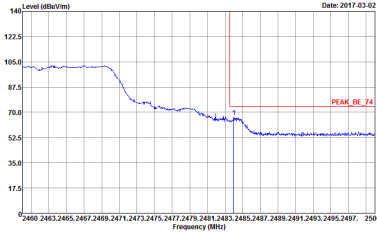
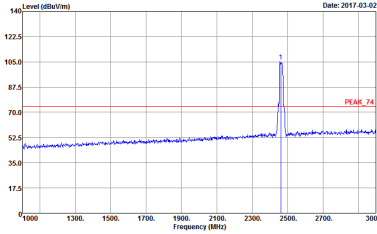
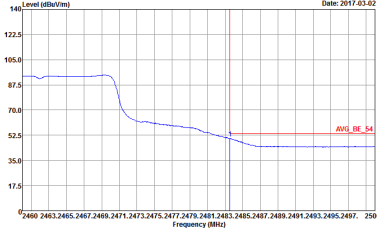
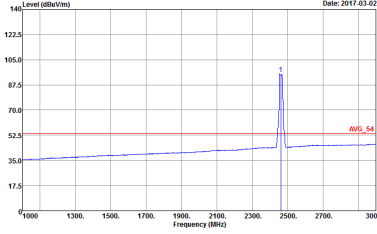
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site: 03CH12-HY Condition: PEAK_BE_74 3m HORN_91200_1338 HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:auto Project: Peak Mode: 720930 Setting: 5 0B	Left blank
Avg.	 Site: 03CH12-HY Condition: AVG_BE_54 3m HORN_91200_1338 HORIZONTAL Detector: RBW:1000.000KHz VBW:1.000KHz SWT:auto Project: Peak Mode: 720930 Setting: 5 0B	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, RE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 5 Setting : 0B	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 5 Setting : 0B
Avg.	 Site Condition : 03CH12-HY : AVG, RE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 5 Setting : 0B	 Site Condition : 03CH12-HY : AVG, 54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 5 Setting : 0B



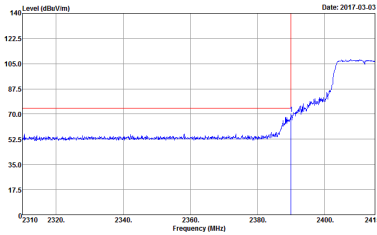
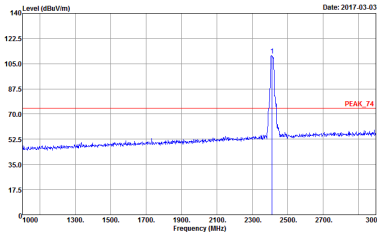
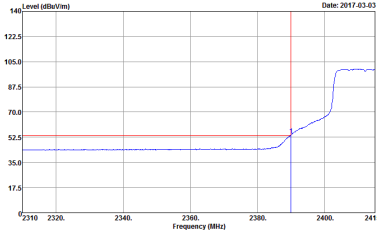
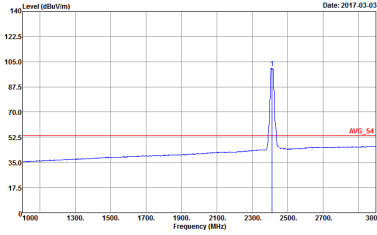
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site: 03CH12-HY Condition: PEAK, BE_74 3m HORN_91200_1338 VERTICAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:auto Project: Peak Mode: 720930 Setting: 5 0B	Left Blank
Avg.	 Site: 03CH12-HY Condition: AVG, BE_54 3m HORN_91200_1338 VERTICAL Detector: RBW:1000.000KHz VBW:1.000KHz SWT:auto Project: Peak Mode: 720930 Setting: 5 0B	Left Blank

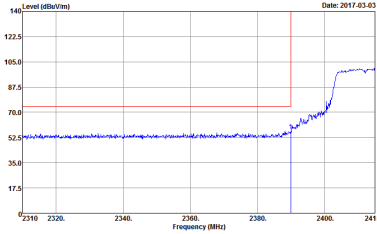
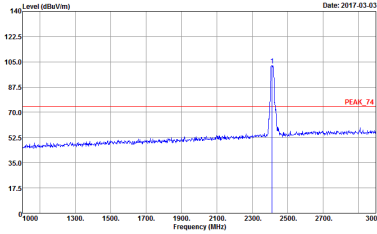
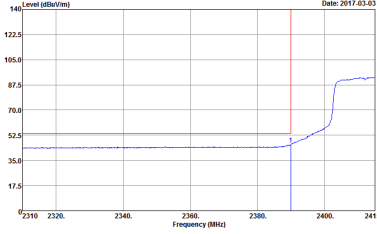
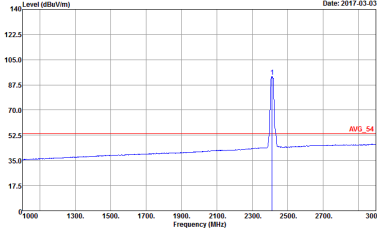
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 6 Setting : 05	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 6 Setting : 05
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 6 Setting : 05	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 6 Setting : 05

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY PEAK_BE_74 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 6 : 05	 Site Condition : 03CH12-HY PEAK_74 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 6 : 05
Avg.	 Site Condition : 03CH12-HY AVG_BE_54 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 6 : 05	 Site Condition : 03CH12-HY AVG_54 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 6 : 05

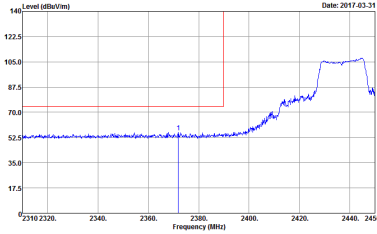
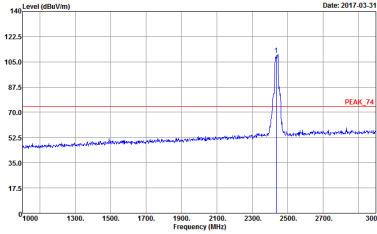
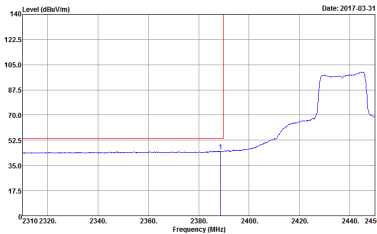
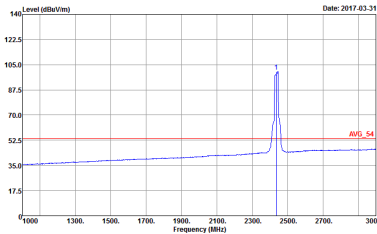
2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

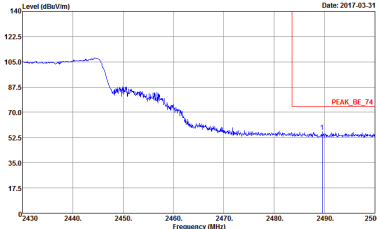
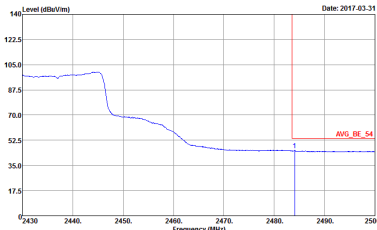
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 7 Setting : 08	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 7 Setting : 08
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 7 Setting : 08	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 7 Setting : 08

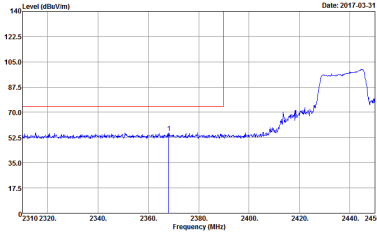
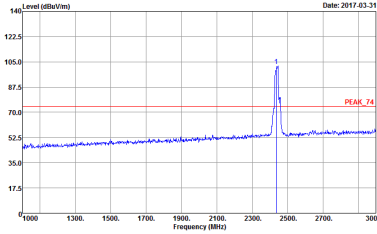
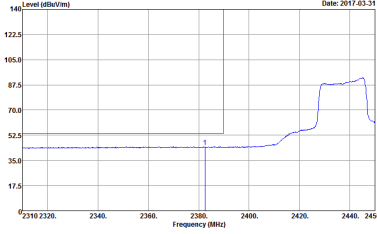
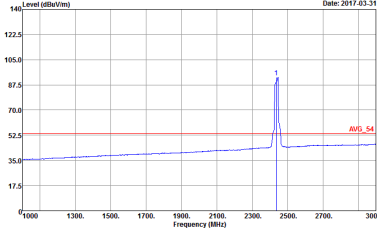
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY PEAK, RE_74 3m HORN_9120D_1338 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 7 Setting : 0B	 Site Condition : 03CH12-HY PEAK, 74 3m HORN_9120D_1338 VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 7 Setting : 0B
Avg.	 Site Condition : 03CH12-HY AVG, RE_54 3m HORN_9120D_1338 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 7 Setting : 0B	 Site Condition : 03CH12-HY AVG, 54 3m HORN_9120D_1338 VERTICAL RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 7 Setting : 0B

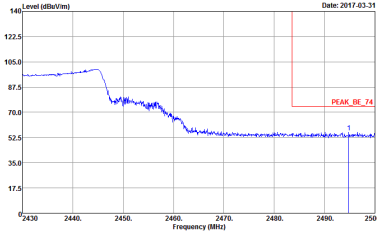
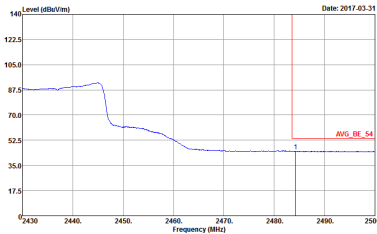


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 0 Setting : 0E	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 0 Setting : 0E
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 0 Setting : 0E	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 0 Setting : 0E

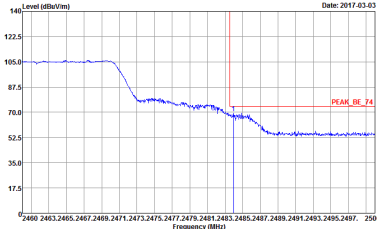
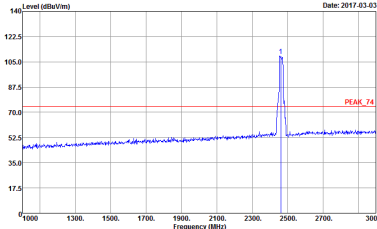
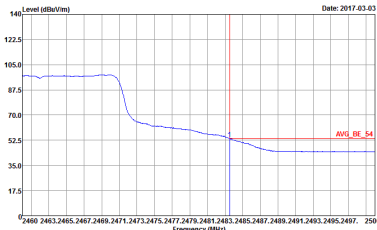
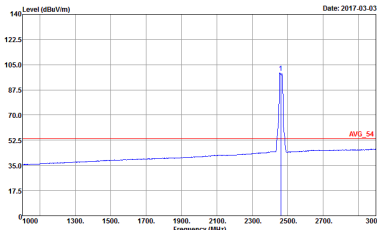


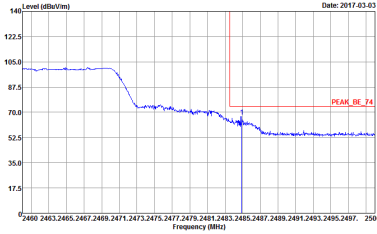
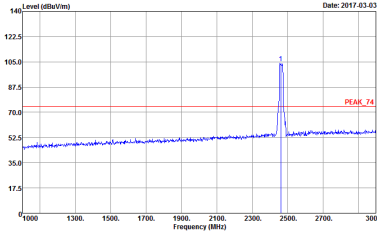
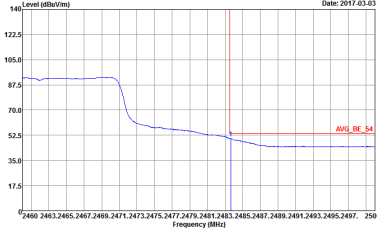
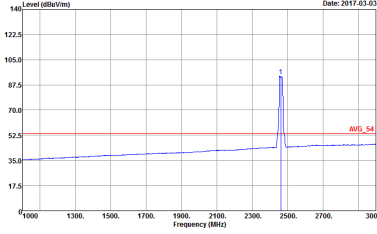
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site: 03CH12-HY Condition: PEAK_BE_74 3m HORN_91200_1338 HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:auto Project: Peak Mode: 720930 Setting: 8, 0E	Left blank
Avg.	 Site: 03CH12-HY Condition: AVG_BE_54 3m HORN_91200_1338 HORIZONTAL Detector: RBW:1000.000KHz VBW:1.000KHz SWT:auto Project: Peak Mode: 720930 Setting: 8, 0E	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, RE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 0 Setting : 0E	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 0 Setting : 0E
Avg.	 Site Condition : 03CH12-HY : AVG, RE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 0 Setting : 0E	 Site Condition : 03CH12-HY : AVG, 54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 0 Setting : 0E

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site: 03CH12-HY Condition: PEAK, BE_74 3m HORN_91200_1378 VERTICAL Detector: RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Project: Peak Mode: 720930 Setting: 8, 0E	Left Blank
Avg.	 Site: 03CH12-HY Condition: AVG, BE_54 3m HORN_91200_1378 VERTICAL Detector: RBW:1000.000KHz VSW:1.000KHz SWT:Auto Project: Peak Mode: 720930 Setting: 8, 0E	Left Blank

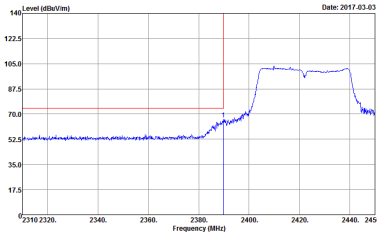
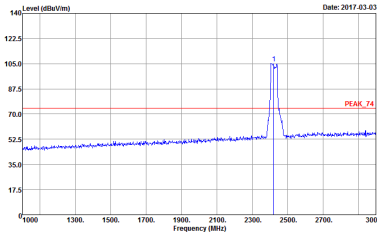
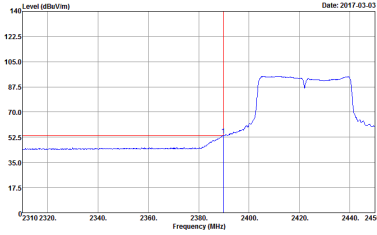
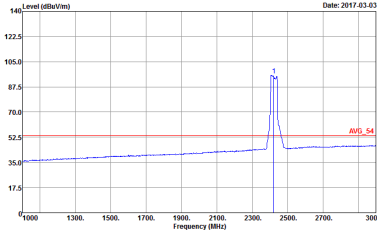


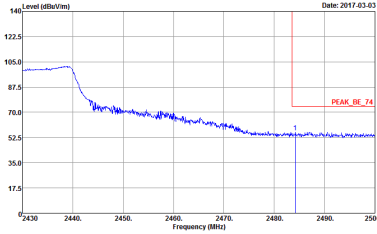
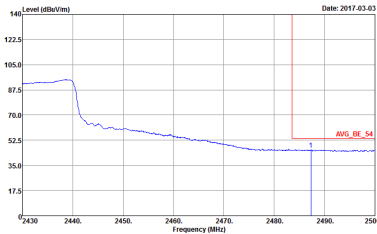
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 9 Setting : 04	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 9 Setting : 04
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VSW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 9 Setting : 04	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VSW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 9 Setting : 04

WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 9 Setting : 04	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 9 Setting : 04
	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 9 Setting : 04	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 9 Setting : 04
Avg.		

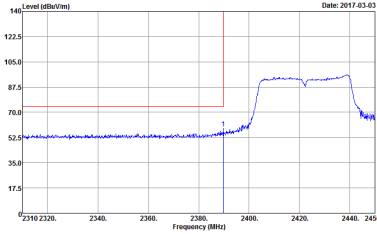
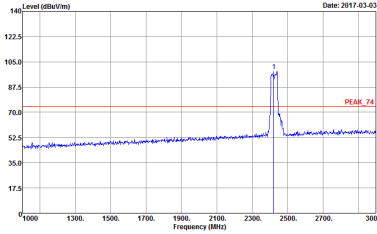
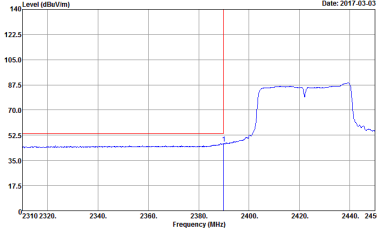
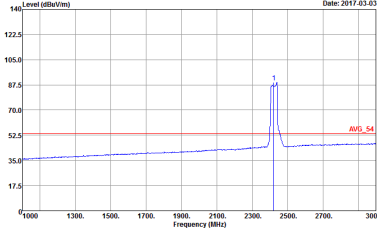
2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

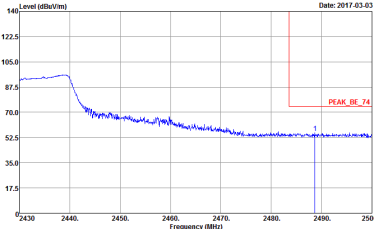
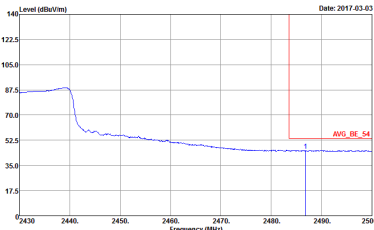
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL : RBW:1000.000KHz YBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 10 Setting : 06	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_91200_1328 HORIZONTAL : RBW:1000.000KHz YBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 10 Setting : 06
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL : RBW:1000.000KHz YBW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 10 Setting : 06	 Site Condition : 03CH12-HY : AVG_54 3m HORN_91200_1328 HORIZONTAL : RBW:1000.000KHz YBW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 10 Setting : 06

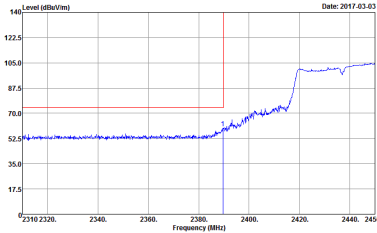
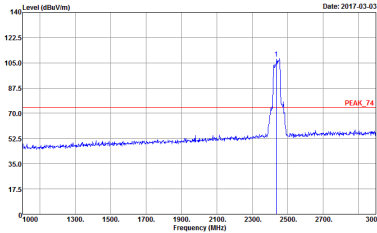
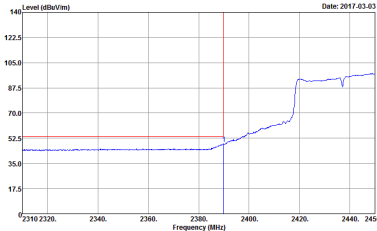
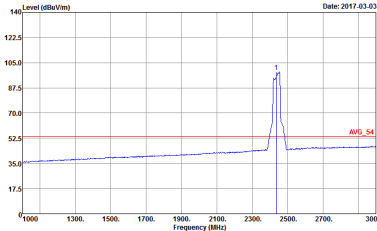
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 10 Setting : 06	Left Blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 10 Setting : 06	Left Blank

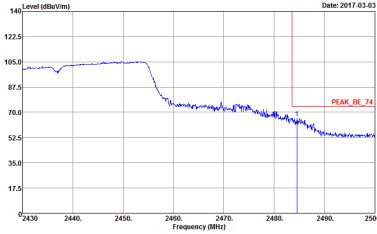
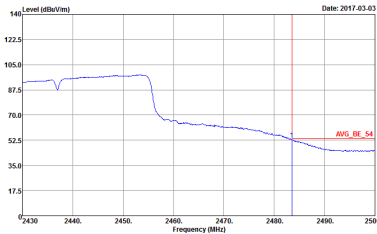


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, RE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 10 Setting : 06	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 10 Setting : 06
Avg.	 Site Condition : 03CH12-HY : AVG, RE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 10 Setting : 06	 Site Condition : 03CH12-HY : AVG, 54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 10 Setting : 06

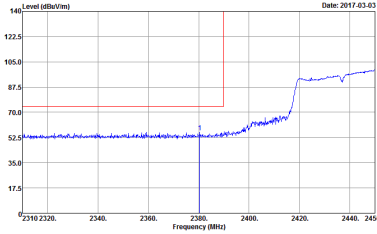
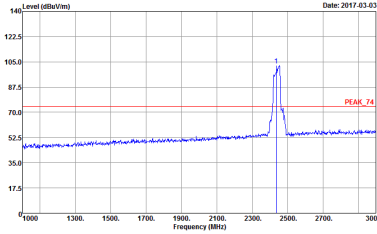
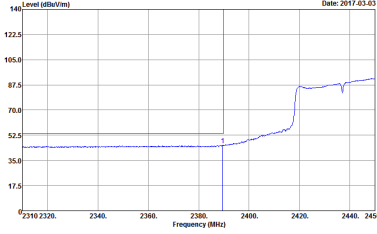
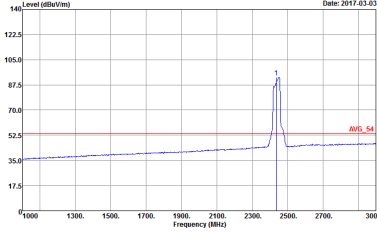


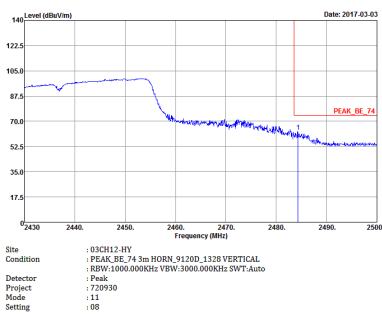
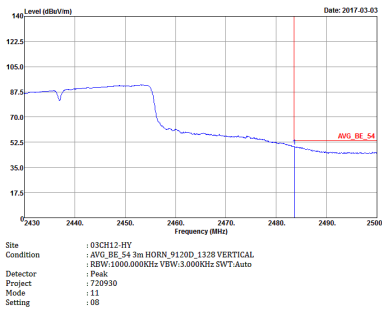
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1378 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 10 Date: 2017.03.03	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1378 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 10 Date: 2017.03.03	Left blank

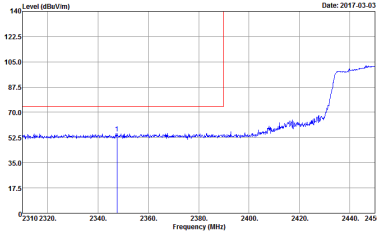
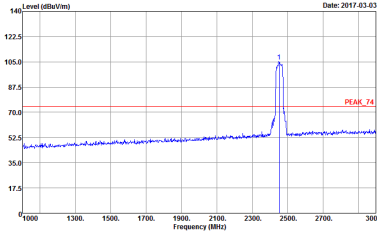
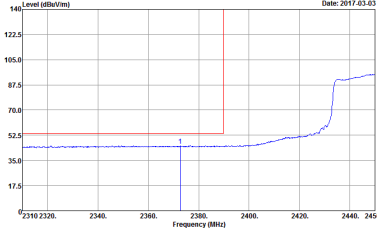
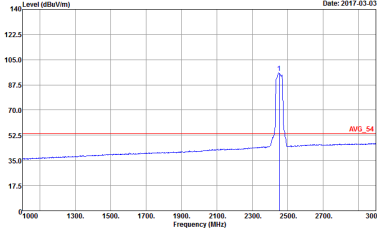
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY PEAK, RE, 74 3m HORN, 9120D, 1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 11 Setting : 08	 Site Condition : 03CH12-HY PEAK, 74 3m HORN, 9120D, 1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 11 Setting : 08
Avg.	 Site Condition : 03CH12-HY AVG, RE, 54 3m HORN, 9120D, 1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 11 Setting : 08	 Site Condition : 03CH12-HY AVG, 54 3m HORN, 9120D, 1328 HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 11 Setting : 08

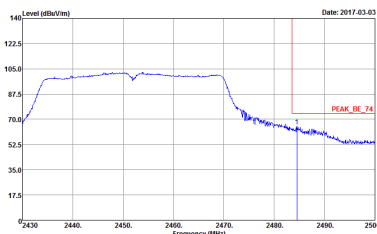
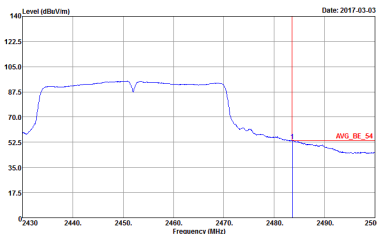
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1338 HORIZONTAL Detector : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 11 Setting : 00	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1338 HORIZONTAL Detector : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 11 Setting : 00	Left blank



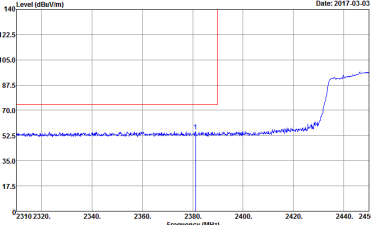
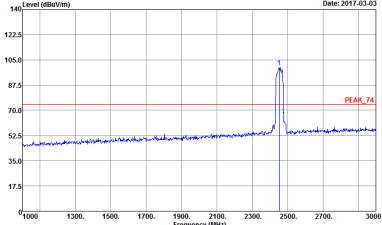
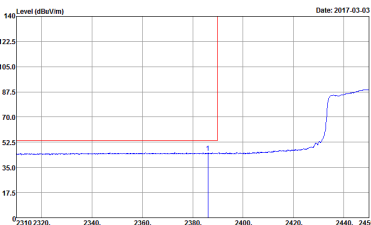
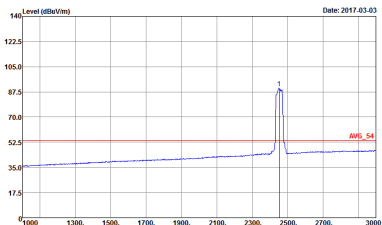
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, RE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 11 Setting : 00	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 11 Setting : 00
Avg.	 Site Condition : 03CH12-HY : AVG, RE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 11 Setting : 00	 Site Condition : 03CH12-HY : AVG, 54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 11 Setting : 00

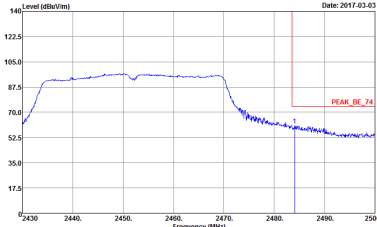
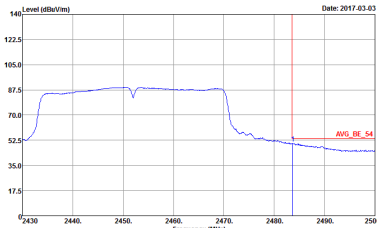
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY PEAK, RE_74 3m HORN_9120D_1338 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 12 Setting : 01	 Site Condition : 03CH12-HY PEAK, 74 3m HORN_9120D_1338 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 12 Setting : 01
Avg.	 Site Condition : 03CH12-HY AVG, RE_54 3m HORN_9120D_1338 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 12 Setting : 01	 Site Condition : 03CH12-HY AVG, 54 3m HORN_9120D_1338 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 12 Setting : 01

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1338 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:auto Project : Peak Mode : 12 Setting : 01	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1338 HORIZONTAL Detector : RBW:1000.000KHz VBW:3.000KHz SWT:auto Project : Peak Mode : 12 Setting : 01	Left blank

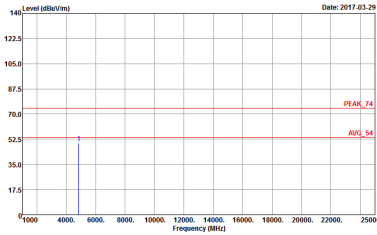
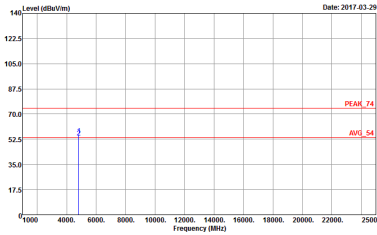


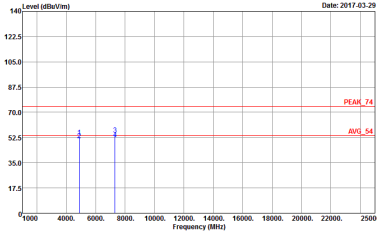
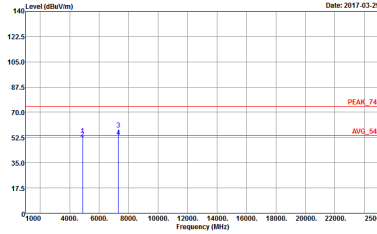
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, RE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 12 Setting : 01	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 12 Setting : 01
Avg.	 Site Condition : 03CH12-HY : AVG, RE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 12 Setting : 01	 Site Condition : 03CH12-HY : AVG, 54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 12 Setting : 01

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1378 VERTICAL Detector : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 12 01	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1378 VERTICAL Detector : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 12 01	Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

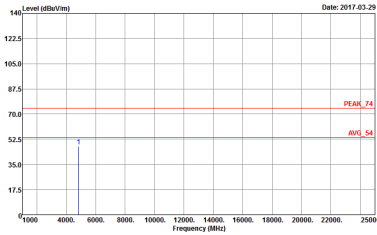
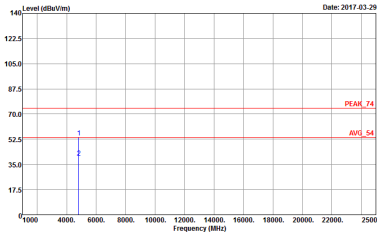
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720930 Mode : 1 Setting : 15	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 720930 Mode : 1 Setting : 15

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Project : Peak Mode : 720930 Setting : 2 Setting : 0A	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 VERTICAL Project : Peak Mode : 720930 Setting : 2 Setting : 0A

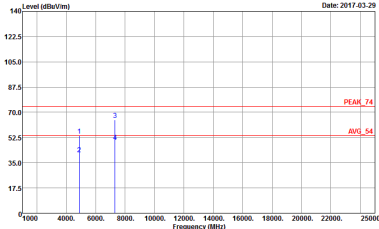
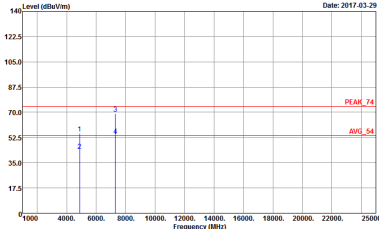


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720930 Mode : 3 Setting : 05	Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 720930 Mode : 3 Setting : 05

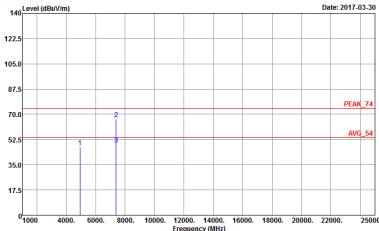
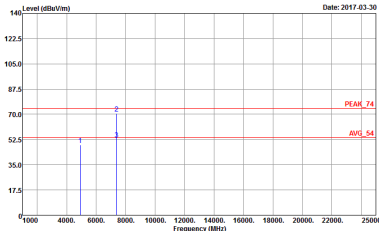
2.4GHz 2400~2483.5MHz
WIFI 802.11g (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720930 Mode : 4 Setting : 0C	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 720930 Mode : 4 Setting : 0C

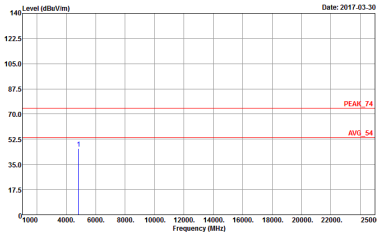
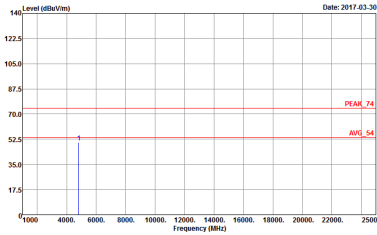


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Project : Peak Mode : 720930 Setting : 5 Setting : 0B	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 VERTICAL Project : Peak Mode : 720930 Setting : 5 Setting : 0B

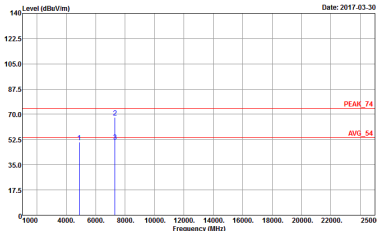
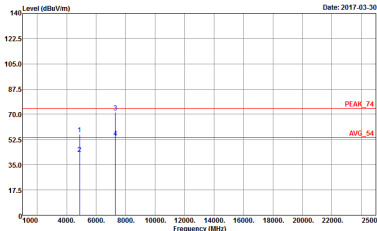


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Project : 720930 Mode : 6 Setting : 05	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 VERTICAL Project : 720930 Mode : 6 Setting : 05

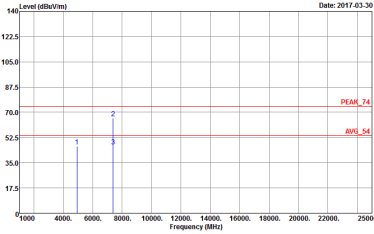
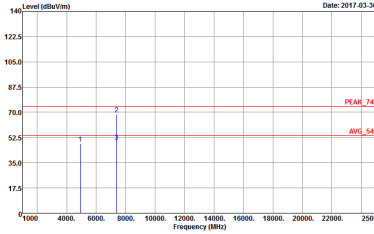
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720930 Mode : 7 Setting : 0B	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 720930 Mode : 7 Setting : 0B

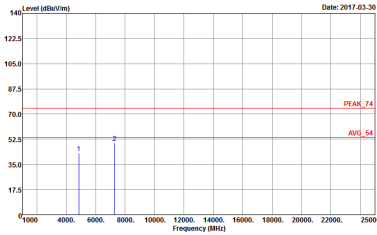
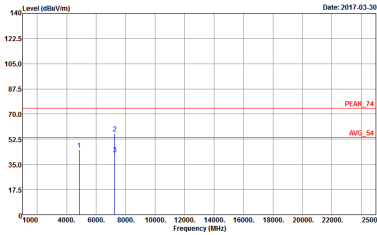


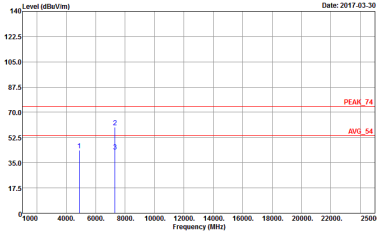
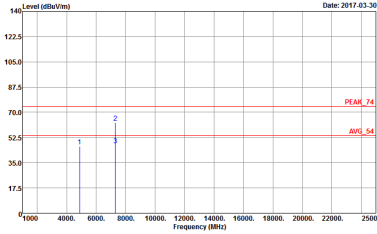
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Project : Peak Mode : 720930 Setting : 0E	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 VERTICAL Project : Peak Mode : 720930 Setting : 0E



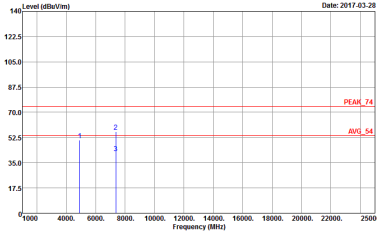
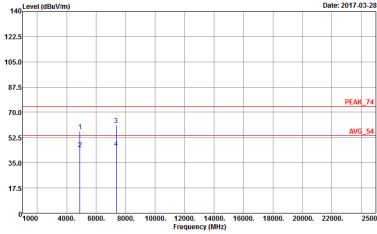
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Project : 720930 Mode : 9 Setting : 04	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 VERTICAL Project : 720930 Mode : 9 Setting : 04

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

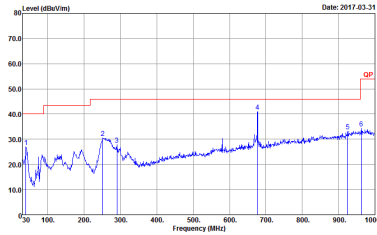
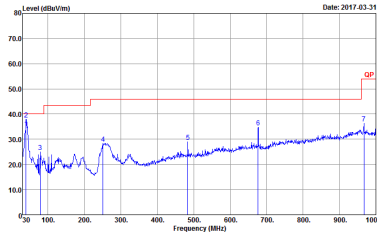
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720930 Mode : 10 Setting : 06	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 720930 Mode : 10 Setting : 06

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Project : 720930 Mode : 11 Setting : 00	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 VERTICAL Project : 720930 Mode : 11 Setting : 00



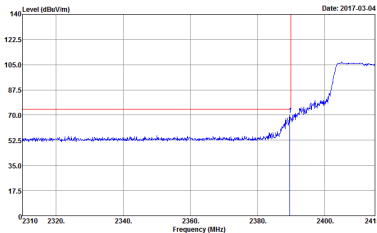
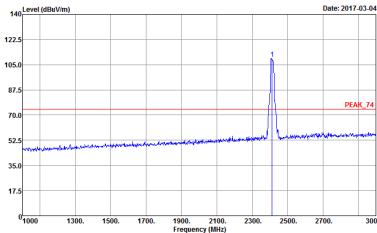
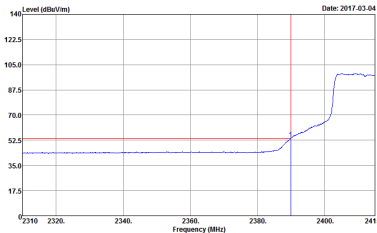
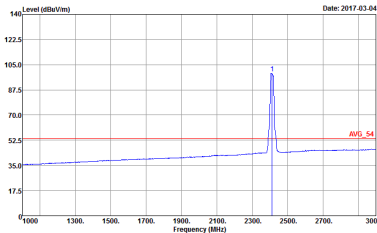
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Project : 720930 Mode : 12 Setting : 01	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 VERTICAL Project : 720930 Mode : 12 Setting : 01

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

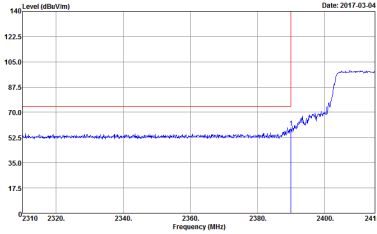
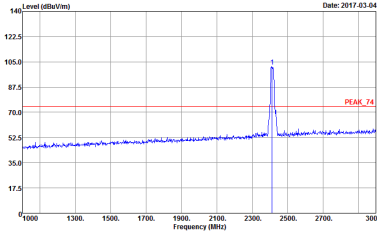
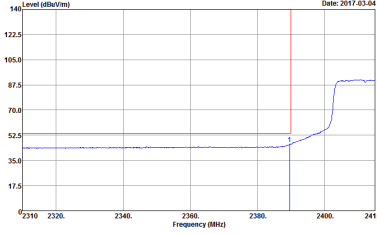
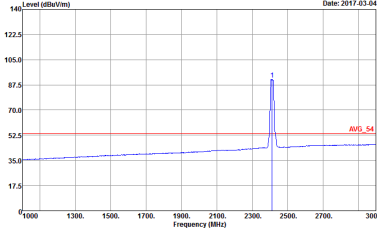
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH12-HY Condition : QP 3m BILOG_6111D_37059 HORIZONTAL Detector : Peak Project : 720930 Mode : 13	 Site : 03CH12-HY Condition : QP 3m BILOG_6111D_37059 VERTICAL Detector : Peak Project : 720930 Mode : 13

2.4GHz 2400~2483.5MHz

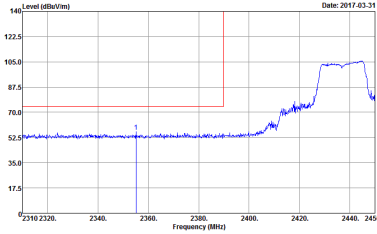
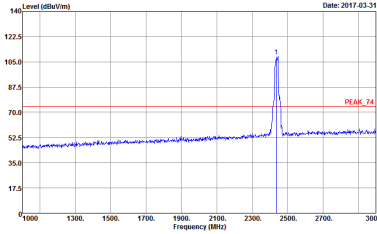
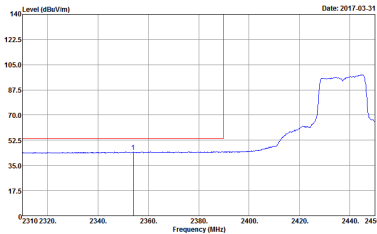
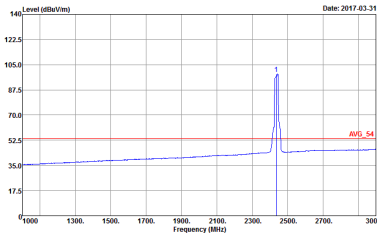
WIFI 802.11n HT20 (Band Edge @ 3m)

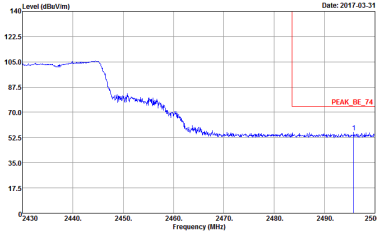
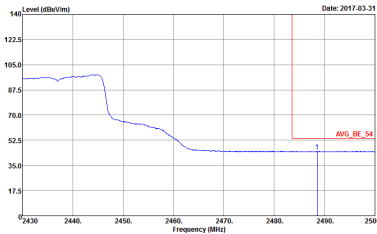
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 14 Setting : 0A	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 14 Setting : 0A
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 14 Setting : 0A	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz YBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 14 Setting : 0A



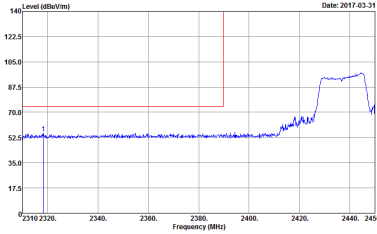
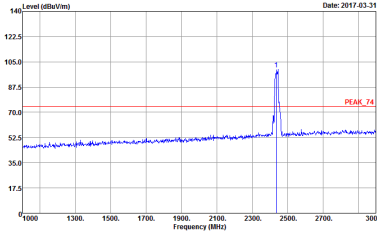
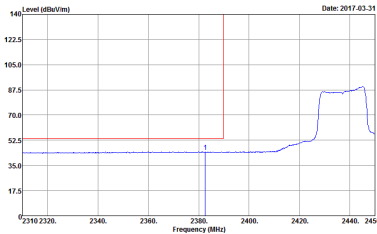
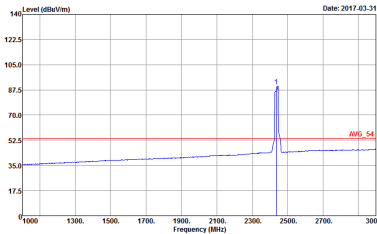
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, RE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 720930 Mode : 14 Setting : 0A	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SWT:Auto Detector : Peak Project : 720930 Mode : 14 Setting : 0A
Avg.	 Site Condition : 03CH12-HY : AVG, RE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 720930 Mode : 14 Setting : 0A	 Site Condition : 03CH12-HY : AVG, 54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000kHz VBW:1.000kHz SWT:Auto Detector : Peak Project : 720930 Mode : 14 Setting : 0A

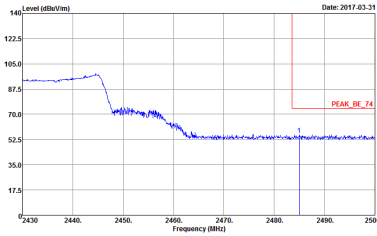
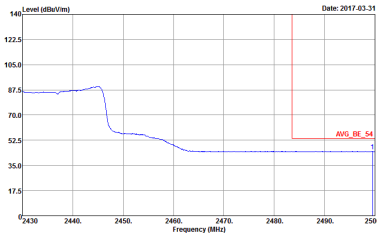


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK, RE_74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 15 Date: 2017-03-31	 Site : 03CH12-HY Condition : PEAK, 74 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 15 Date: 2017-03-31
Avg.	 Site : 03CH12-HY Condition : AVG, RE_54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 15 Date: 2017-03-31	 Site : 03CH12-HY Condition : AVG, 54 3m HORN_9120D_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 15 Date: 2017-03-31

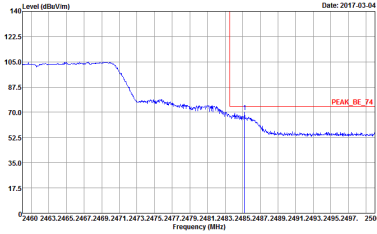
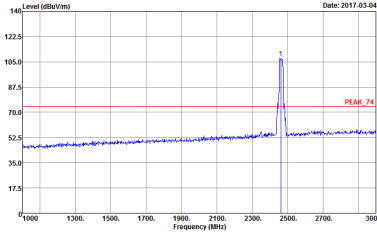
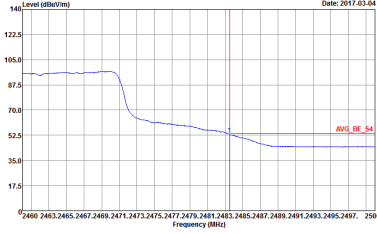
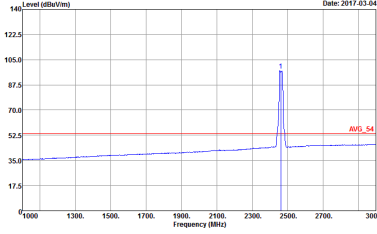
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1338 HORIZONTAL Detector : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 15 Date: 2017-03-31	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1338 HORIZONTAL Detector : RBW:1000.000KHz VSW:1.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 15 Date: 2017-03-31	Left blank

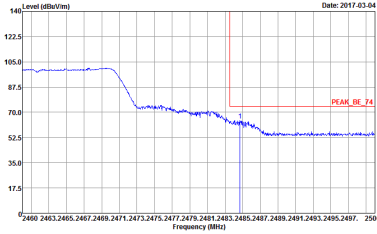
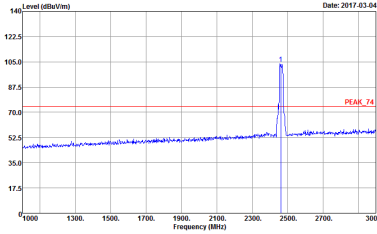
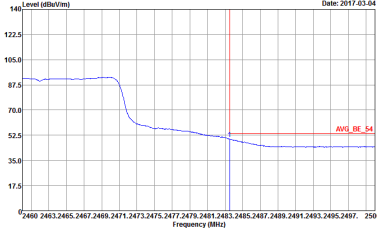
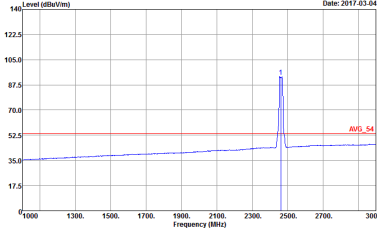


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, RE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 15 Setting : 09	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 15 Setting : 09
Avg.	 Site Condition : 03CH12-HY : AVG, RE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 15 Setting : 09	 Site Condition : 03CH12-HY : AVG, 54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 15 Setting : 09

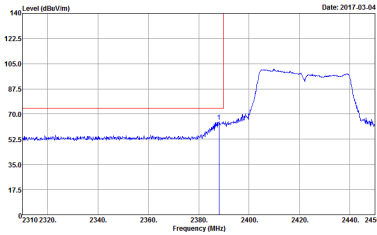
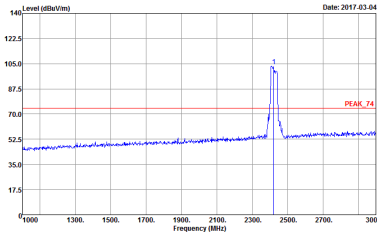
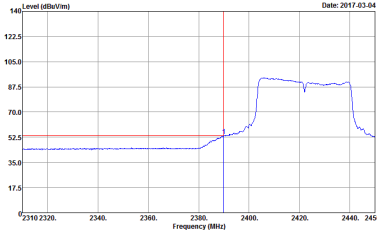
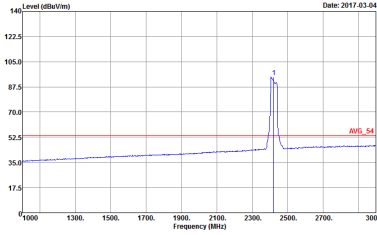
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1378 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 15 Date: 2017-03-31	Left Blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1378 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 15 Date: 2017-03-31	Left Blank



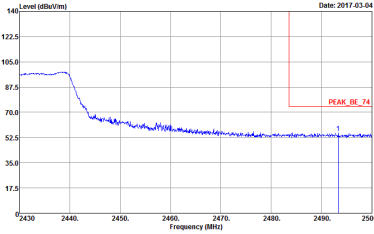
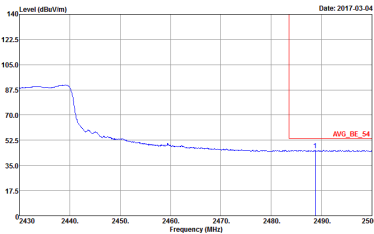
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 16 Setting : 05	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VSW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 16 Setting : 05
Avg.	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VSW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 16 Setting : 05	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VSW:1.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 16 Setting : 05

WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY PEAK_BE_74 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 16 Setting : 05	 Site Condition : 03CH12-HY PEAK_74 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 16 Setting : 05
Avg.	 Site Condition : 03CH12-HY AVG_BE_54 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 16 Setting : 05	 Site Condition : 03CH12-HY AVG_54 3m HORN_9120D_1338 VERTICAL Detector : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 16 Setting : 05

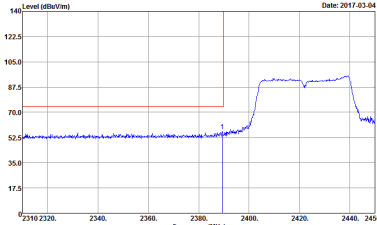
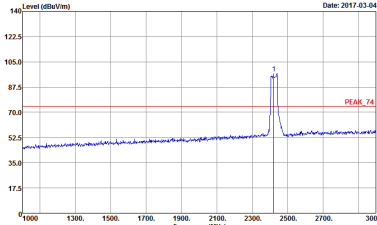
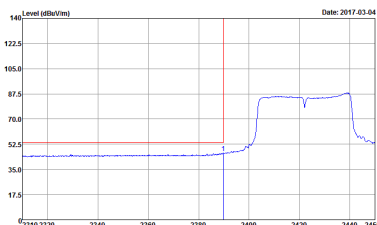
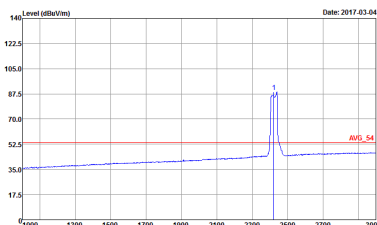
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

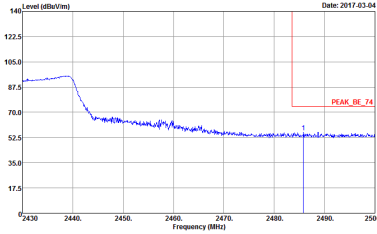
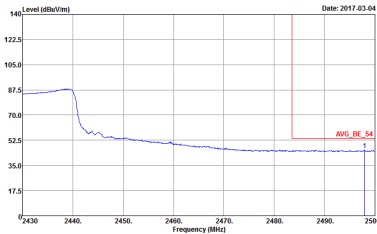
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK_BE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 17 Setting : 05	 Site Condition : 03CH12-HY : PEAK_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 17 Setting : 05
	 Site Condition : 03CH12-HY : AVG_BE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 17 Setting : 05	 Site Condition : 03CH12-HY : AVG_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 17 Setting : 05
Avg.		

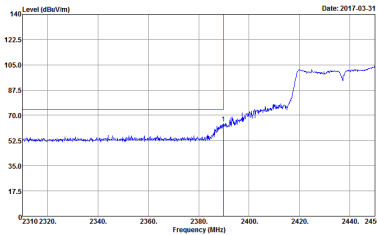
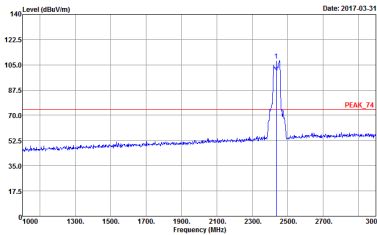
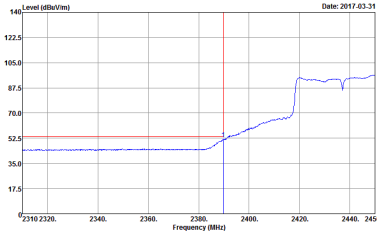
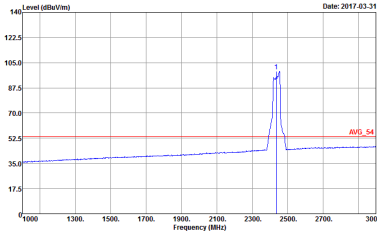


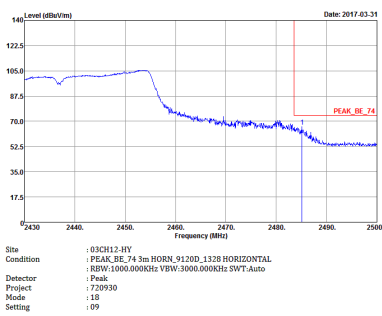
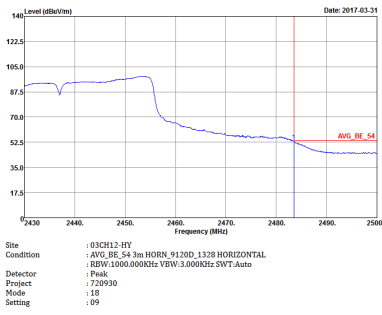
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 17 Setting : 05	Left Blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1328 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak Mode : 17 Setting : 05	Left Blank

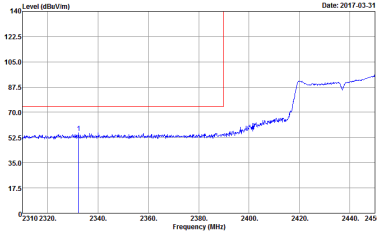
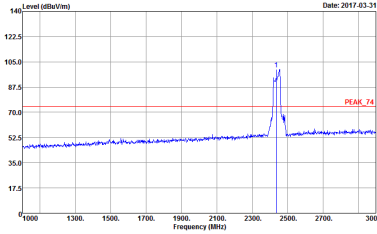
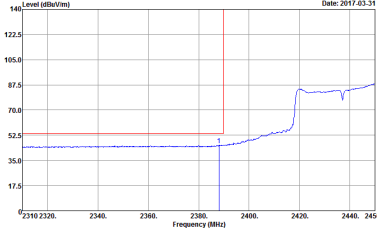
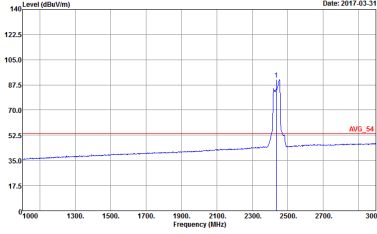


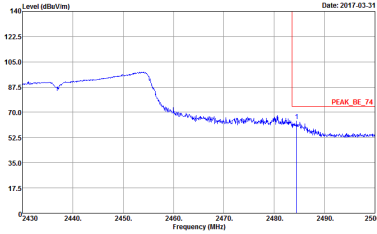
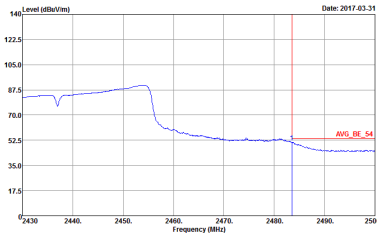
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, RE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 17 Setting : 05	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 17 Setting : 05
Avg.	 Site Condition : 03CH12-HY : AVG, RE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 17 Setting : 05	 Site Condition : 03CH12-HY : AVG, 54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 17 Setting : 05

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1338 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:auto Project : Peak Mode : 17 Setting : 05	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1338 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:auto Project : Peak Mode : 17 Setting : 05	Left blank

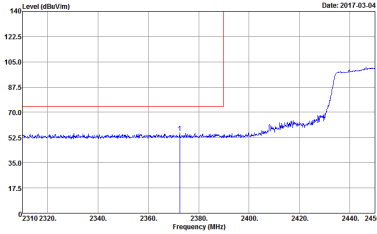
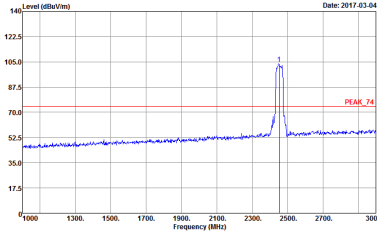
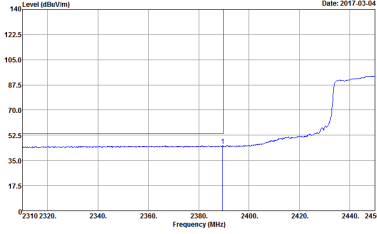
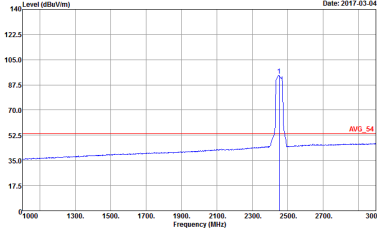
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site: 03CH12-HY Condition: PEAK, RE, 74 3m HORN, 9120D, 1328 HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project: Peak Mode: 720930 Setting: 18 Date: 2017-03-31	 Site: 03CH12-HY Condition: PEAK, 74 3m HORN, 9120D, 1328 HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project: Peak Mode: 720930 Setting: 18 Date: 2017-03-31
Avg.	 Site: 03CH12-HY Condition: AVG, RE, 54 3m HORN, 9120D, 1328 HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project: Peak Mode: 720930 Setting: 18 Date: 2017-03-31	 Site: 03CH12-HY Condition: AVG, 54 3m HORN, 9120D, 1328 HORIZONTAL Detector: RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project: Peak Mode: 720930 Setting: 18 Date: 2017-03-31

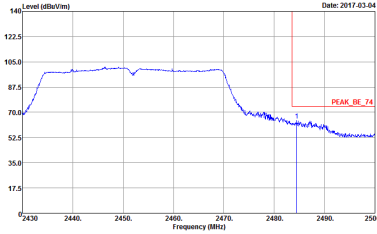
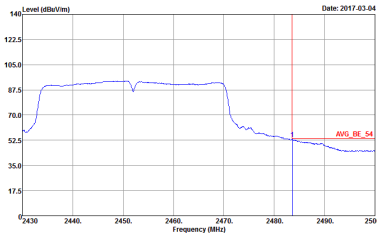
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, RE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 18 Setting : 09	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 18 Setting : 09
Avg.	 Site Condition : 03CH12-HY : AVG, RE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 18 Setting : 09	 Site Condition : 03CH12-HY : AVG, 54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 18 Setting : 09

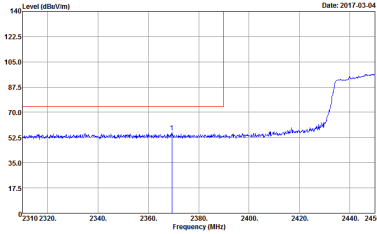
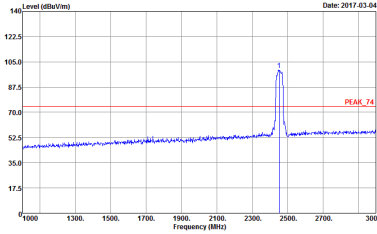
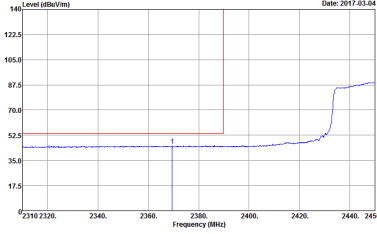
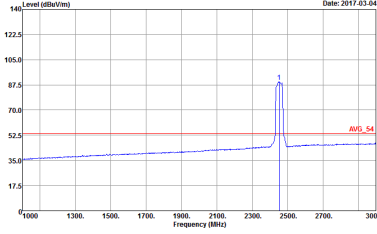
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1378 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:auto Project : Peak Mode : 720930 Setting : 18 Setting : 09	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1378 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:auto Project : Peak Mode : 720930 Setting : 18 Setting : 09	Left blank

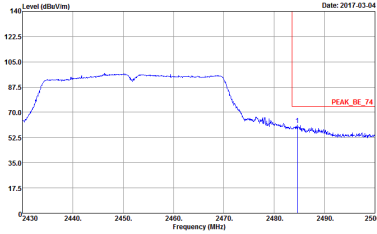
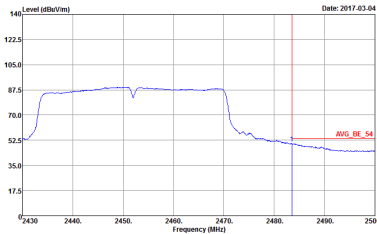


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, RE_74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 19 Setting : 02	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 19 Setting : 02
Avg.	 Site Condition : 03CH12-HY : AVG, RE_54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 19 Setting : 02	 Site Condition : 03CH12-HY : AVG, 54 3m HORN_9120D_1328 HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 19 Setting : 02

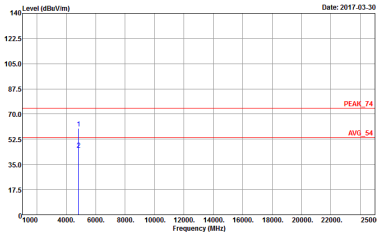
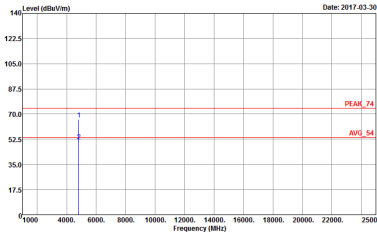
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_91200_1338 HORIZONTAL Detector : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 15 02	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_91200_1338 HORIZONTAL Detector : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Project : Peak Mode : 720930 Setting : 19 02	Left blank

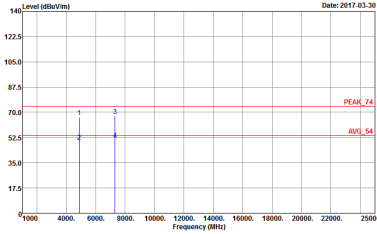
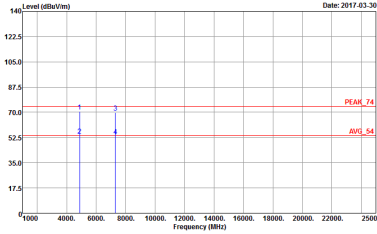


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1+2	Vertical	Fundamental
Peak	 Site Condition : 03CH12-HY : PEAK, RE_74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 19 Setting : 02	 Site Condition : 03CH12-HY : PEAK, 74 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 19 Setting : 02
Avg.	 Site Condition : 03CH12-HY : AVG, RE_54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 19 Setting : 02	 Site Condition : 03CH12-HY : AVG, 54 3m HORN_9120D_1338 VERTICAL : RBW:1000.000KHz VSW:3.000KHz SWT:Auto Detector : Peak Project : 720930 Mode : 19 Setting : 02

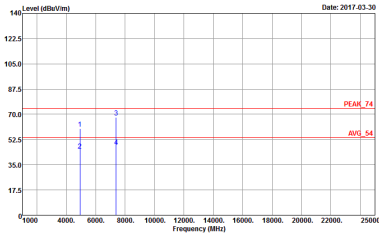
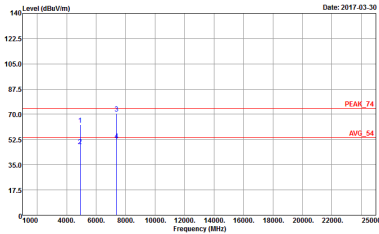
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH12-HY Condition : PEAK_BE_74 3m HORN_9120D_1378 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:auto Project : Peak Mode : 720930 Setting : 19 Date: 2017.03.04	Left blank
Avg.	 Site : 03CH12-HY Condition : AVG_BE_54 3m HORN_9120D_1378 VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:auto Project : Peak Mode : 720930 Setting : 19 Date: 2017.03.04	Left blank

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

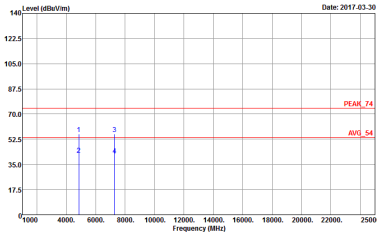
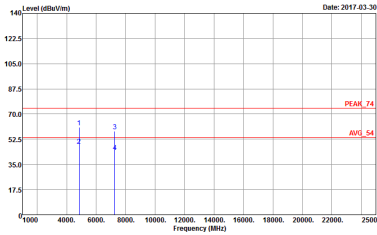
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720930 Mode : 14 Setting : 0A	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 720930 Mode : 14 Setting : 0A

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Project : 720930 Mode : 15 Setting : 09	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 VERTICAL Project : 720930 Mode : 15 Setting : 09

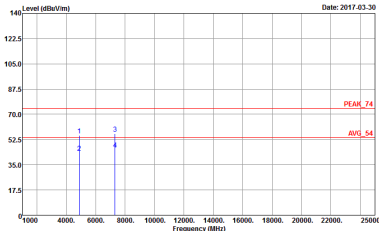
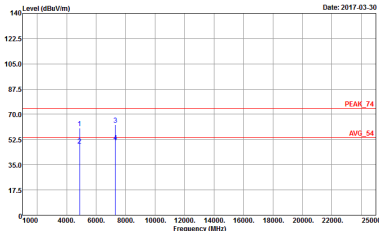


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720930 Mode : 16 Setting : 05	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 720930 Mode : 16 Setting : 05

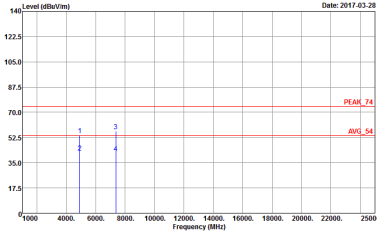
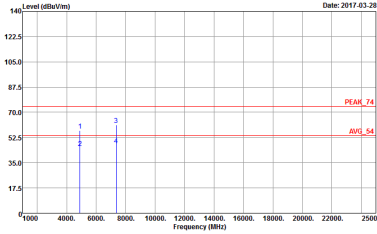
2.4GHz 2400~2483.5MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Detector : Peak Project : 720930 Mode : 17 Setting : 05	 Site : 03CH12-HY Condition : PEAK_74 3m HORN_9120D_1328 VERTICAL Detector : Peak Project : 720930 Mode : 17 Setting : 05

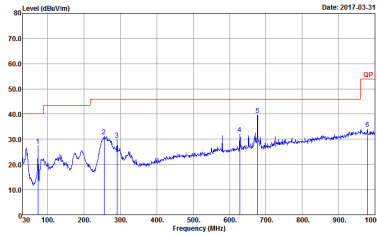
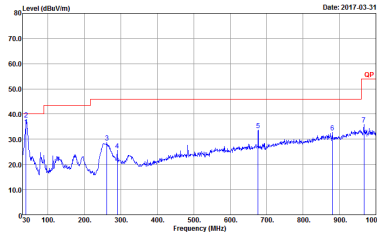


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Project : 720930 Mode : 18 Setting : 09	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 VERTICAL Project : 720930 Mode : 18 Setting : 09



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 HORIZONTAL Project : Peak Mode : 720930 Setting : 19 Setting : 02	 Site Condition : 03CH12-HY Detector : PEAK_74 3m HORN_9120D_1328 VERTICAL Project : Peak Mode : 720930 Setting : 19 Setting : 02

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

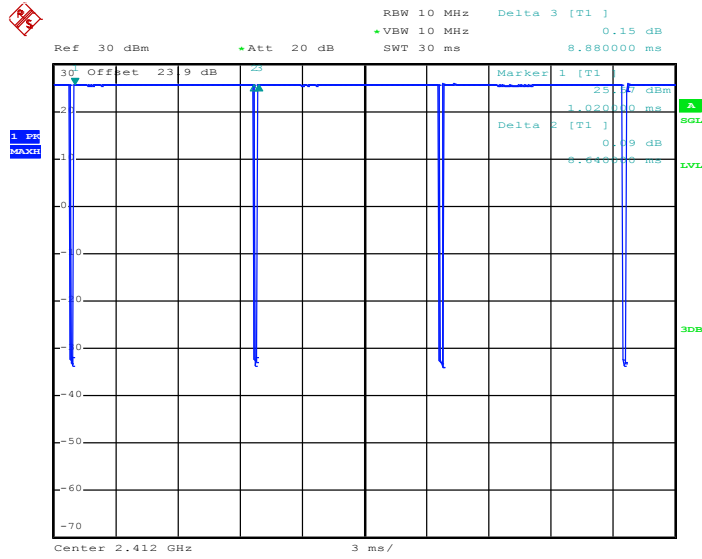
WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT20 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 03CH12-HY Condition : QP 3m BILOG_6111D_37059 HORIZONTAL Detector : Peak Project : 720930 Mode : 20	 Site : 03CH12-HY Condition : QP 3m BILOG_6111D_37059 VERTICAL Detector : Peak Project : 720930 Mode : 20

Appendix E. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1	802.11b	97.30	8640	0.12	300Hz
1	802.11g	87.84	1445	0.69	1kHz
1	2.4GHz 802.11n HT20 for Ant. 1	86.54	1350	0.74	1kHz
1+2	2.4GHz 802.11n HT20 for Ant. 1	87.14	1355	0.74	1kHz
1+2	2.4GHz 802.11n HT20 for Ant. 2	86.54	1350	0.74	1kHz
1	2.4GHz 802.11n HT40 for Ant. 1	76.55	666	1.50	3kHz
1+2	2.4GHz 802.11n HT40 for Ant. 1	76.55	666	1.50	3kHz
1+2	2.4GHz 802.11n HT40 for Ant. 2	76.55	666	1.50	3kHz

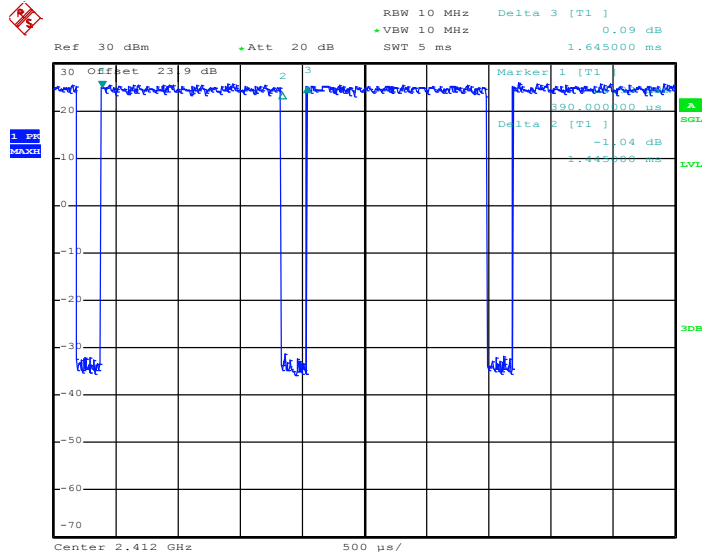
<Ant. 1>

802.11b



Date: 17.FEB.2017 15:56:40

802.11g

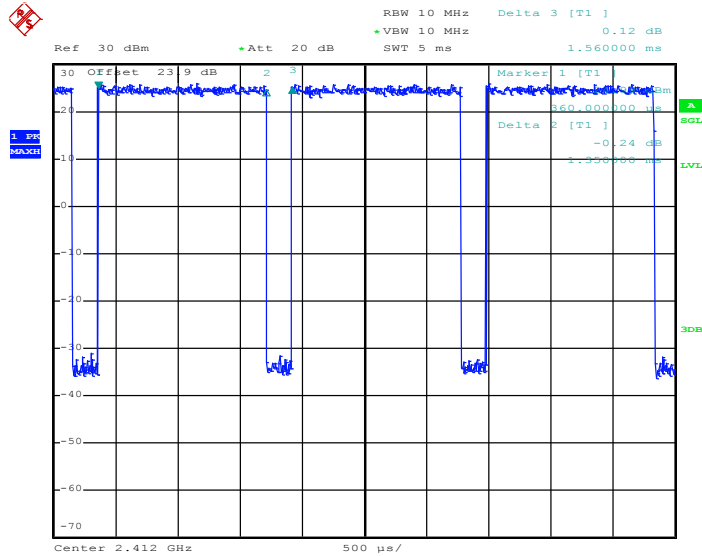


Date: 17.FEB.2017 16:37:57



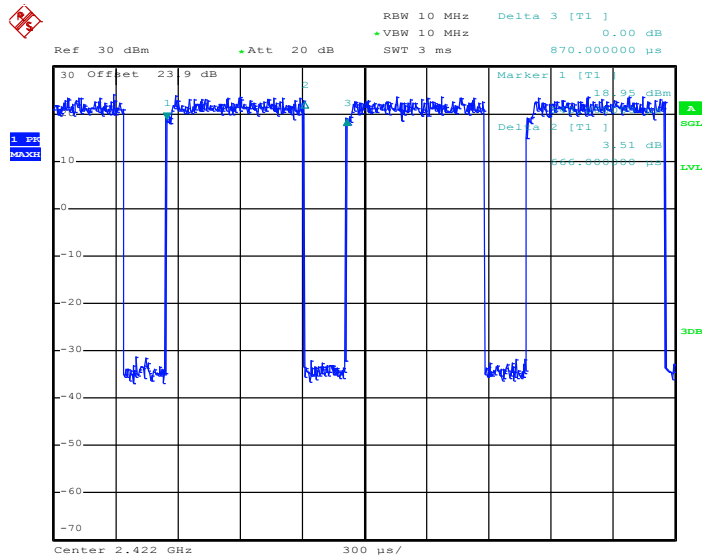
SISO <Ant. 1>

802.11n HT20

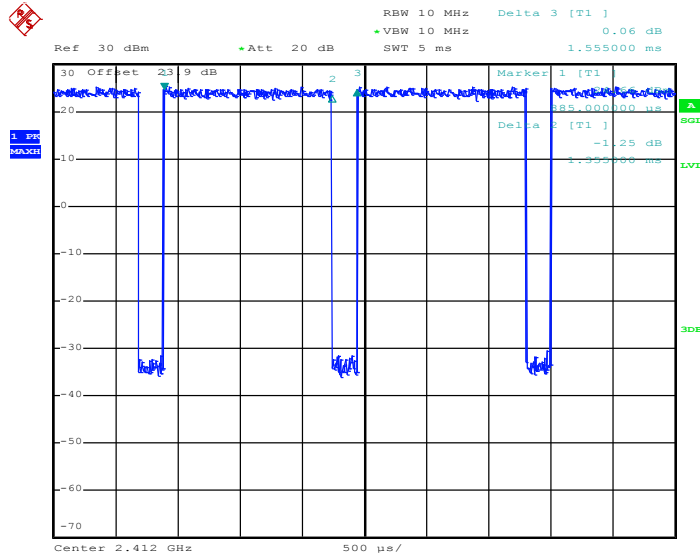


Date: 17.FEB.2017 17:25:08

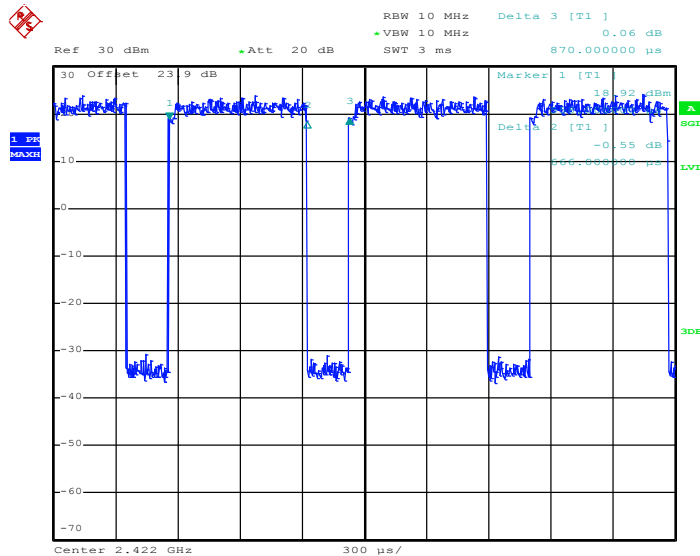
802.11n HT40



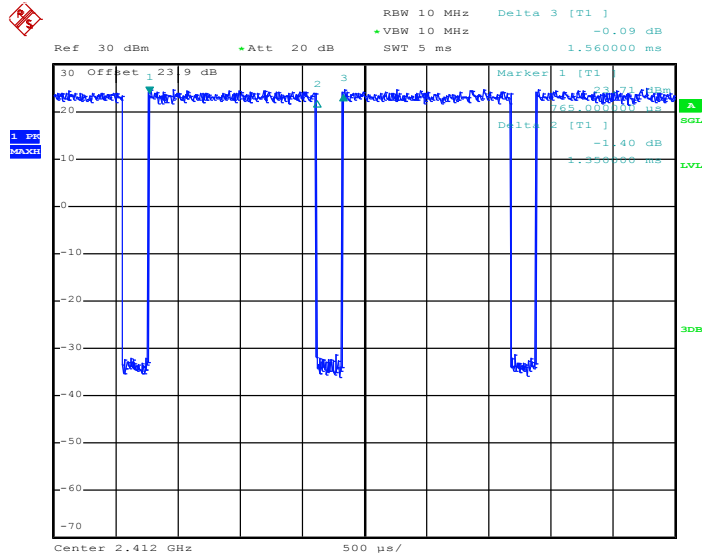
Date: 21.FEB.2017 11:07:18

MIMO <Ant. 1+2(1)>
802.11n HT20


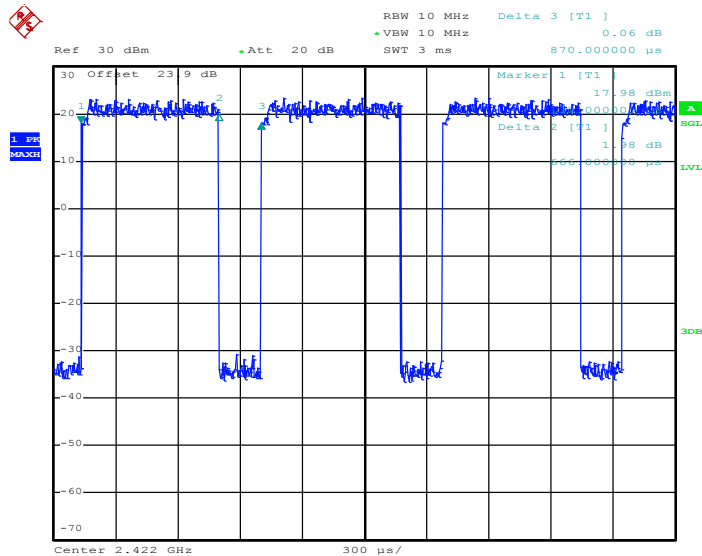
Date: 21.FEB.2017 10:40:51

802.11n HT40


Date: 21.FEB.2017 14:09:51

MIMO <Ant. 1+2(2)>
802.11n HT20


Date: 21.FEB.2017 10:42:46

802.11n HT40


Date: 21.FEB.2017 14:10:41