FCC RF Test Report

APPLICANT	**:**	**ZTE CORPORATION**
EQUIPMENT	**:**	**LTE/CDMA Multi-Mode Digital Mobile Phone**
BRAND NAME	**:**	**ZTE**
MODEL NAME	**:**	**Z837VL**
FCC ID	**:**	**SRQ-Z837VL**
STANDARD	**:**	**FCC Part 15 Subpart C §15.247**
CLASSIFICATION	**:**	**(DTS) Digital Transmission System**

The product was received on Sep. 30, 2016 and testing was completed on Nov. 16, 2016. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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

Reviewed by: Joseph Lin / Supervisor

Approved by: Jones Tsai / Manager

Testing Laboratory 1190

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

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 Product Specification of Equipment Under Test 6
1.5 Modification of EUT 6
1.6 Testing Location 7
1.7 Applicable Standards 8

2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST **9**

2.1 Carrier Frequency and Channel 9
2.2 Test Mode 10
2.3 Connection Diagram of Test System 11
2.4 Support Unit used in test configuration and system 12
2.5 EUT Operation Test Setup 12
2.6 Measurement Results Explanation Example 12

3 TEST RESULT **13**

3.1 6dB and 99% Bandwidth Measurement 13
3.2 Output Power Measurement 15
3.3 Power Spectral Density Measurement 16
3.4 Conducted Band Edges and Spurious Emission Measurement 18
3.5 Radiated Band Edges and Spurious Emission Measurement 31
3.6 AC Conducted Emission Measurement 35
3.7 Antenna Requirements 40

4 LIST OF MEASURING EQUIPMENT **41**

5 UNCERTAINTY OF EVALUATION **42**

APPENDIX A. CONDUCTED TEST RESULTS

APPENDIX B. RADIATED SPURIOUS EMISSION

APPENDIX C. RADIATED SPURIOUS EMISSION PLOTS

APPENDIX D. DUTY CYCLE PLOTS

APPENDIX E. SETUP PHOTOGRAPHS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR693003C	Rev. 01	Initial issue of report	Dec. 22, 2016

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Pass	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges	≤ 20dBc	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 3.18 dB at 2389.940 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 8.74 dB at 1.216 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

1 General Description

1.1 Applicant

ZTE CORPORATION
ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park,
Nanshan District,Shenzhen, Guangdong, 518057, P.R.China

1.2 Manufacturer

ZTE CORPORATION
ZTE Plaza, Keji Road South, Hi-Tech, Industrial Park,
Nanshan District,Shenzhen, Guangdong, 518057, P.R.China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	LTE/CDMA Multi-Mode Digital Mobile Phone
Brand Name	ZTE
Model Name	Z837VL
FCC ID	SRQ-Z837VL
EUT supports Radios application	CDMA/EV-DO/LTE WLAN 11b/g/n HT20/HT40 Bluetooth BR/EDR/LE
HW Version	Z837VLHWV1.0
SW Version	Z837VLV1.0.0B02
EUT Stage	Identical Prototype

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

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	802.11b : 19.51 dBm (0.0893 W) 802.11g : 23.00 dBm (0.1995 W) 802.11n HT20 : 22.74 dBm (0.1879 W) 802.11n HT40 : 21.08 dBm (0.1282 W)
99% Occupied Bandwidth	802.11b : 14.45MHz 802.11g : 18.65MHz 802.11n HT20 : 19.25MHz 802.11n HT40 : 37.00MHz
Antenna Type / Gain	PIFA Antenna type with gain -3.00 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

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

1.6 Testing Location

Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No. 52, Hwa Ya 1st 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

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

Test Site	SPORTON INTERNATIONAL (KUNSHAN) INC.
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P.R.C. TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958
Test Site No.	**Sporton Site No.**
	CO01-KS

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.**
	03CH11-HY

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

1.7 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05
- ANSI C63.10-2013

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

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

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

2.2 Test Mode

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

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

Test Cases	
AC Conducted Emission	Mode 1: CDMA BC0 Idle + Bluetooth Link + WLAN link (2.4GHz) + USB Cable (Charging from Adapter 1) + Earphone + Battery 1 Mode 2: CDMA BC0 Idle + Bluetooth Link + WLAN link (2.4GHz) + USB Cable (Charging from Adapter 2) + Earphone + Battery 2 Mode 3: CDMA BC0 Idle + Bluetooth Link + WLAN link (2.4GHz) + USB Cable (Charging from Adapter 3) + Earphone + Battery 2

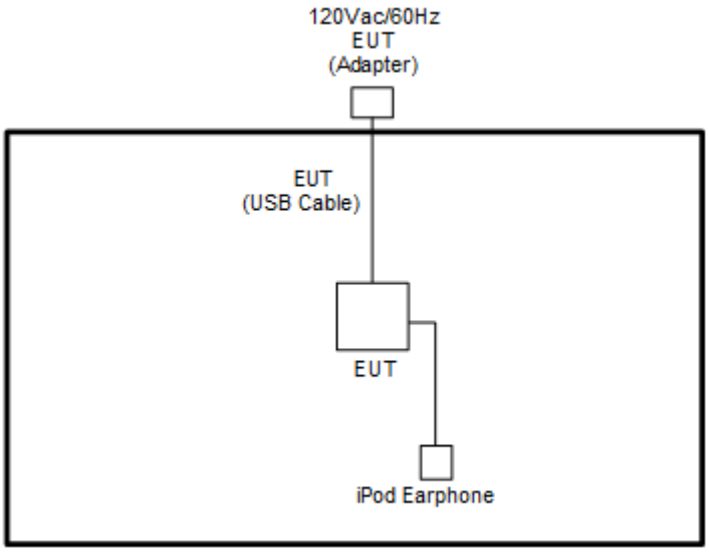
Remark:

1. The worst case of conducted emission is mode 2; only the test data of it was reported.

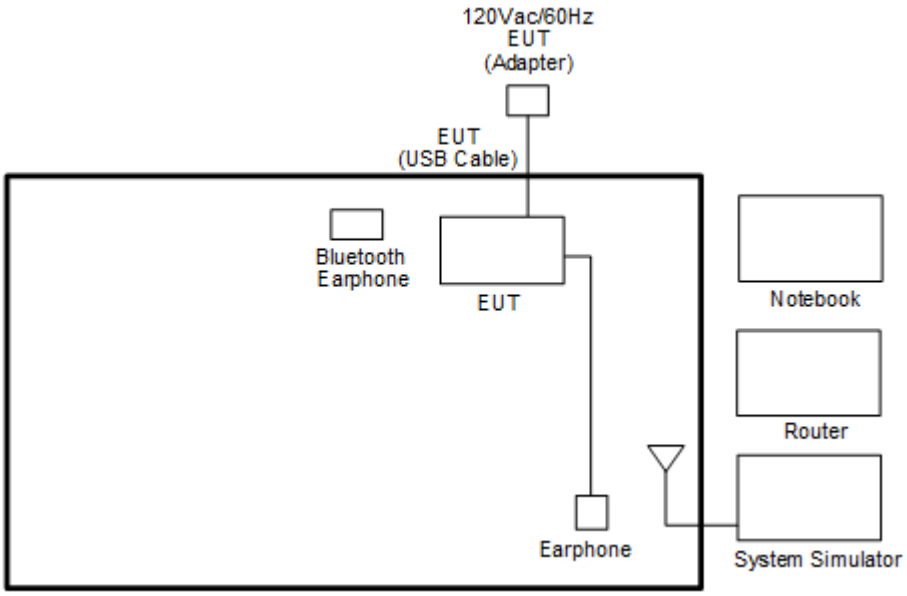
2. For Radiated Test Cases, The tests were performance with Adapter 1, Battery 1, iPod Earphone, and USB Cable.

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Notebook	Lenovo	G480	PRC4	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
2.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
3.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
4.	Earphone	Lenovo	LH102	N/A	N/A	Unshielded,1.2m
5.	Router	LINKSYS	WRT600N	Q87-WRT600NV11	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
6.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

2.5 EUT Operation Test Setup

For WLAN function, programmed RF utility, “QRCT 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.

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 4.2 + 10 = 14.2 (dB)

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.

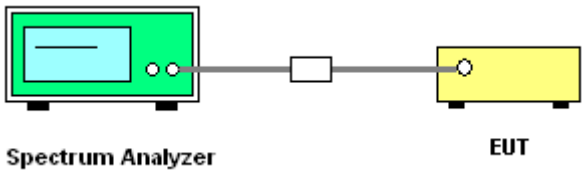
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

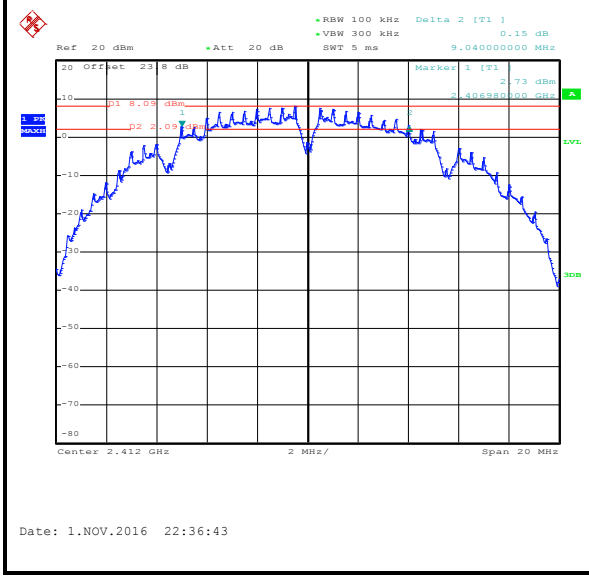
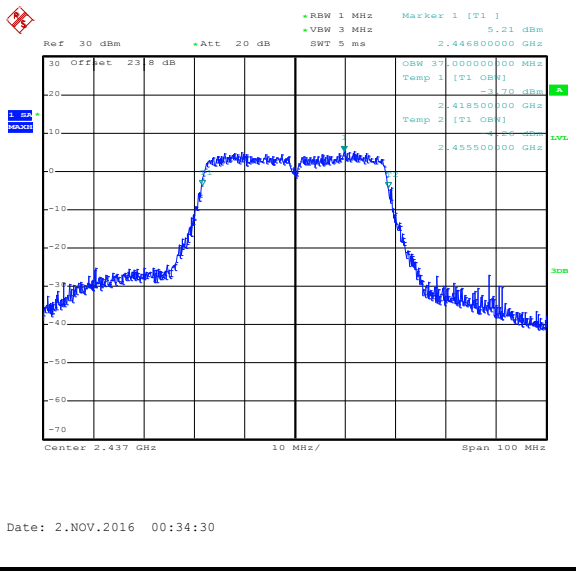
1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v03r05.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit 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.

Minimum 6dB Bandwidth	Maximum 99% Occupied Bandwidth
	

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

3.2 Output Power Measurement

3.2.1 Limit of Output Power

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

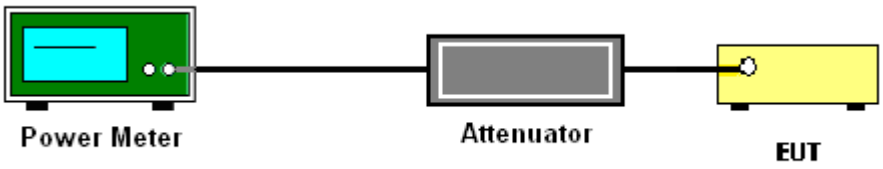
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v03r05 section 9.1.2 PKPM1 Peak power meter method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

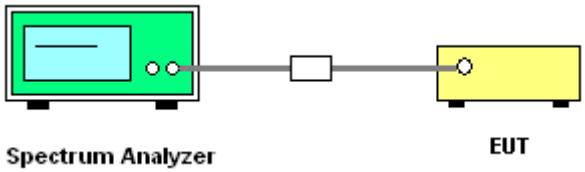
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

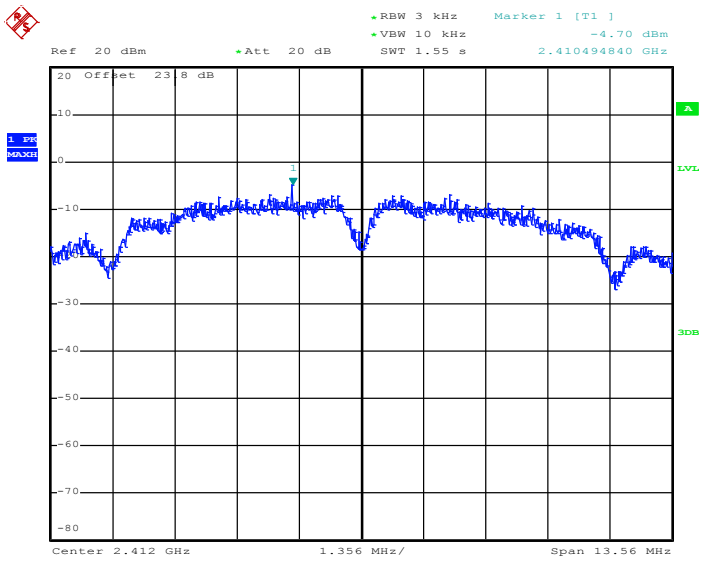
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/3kHz)



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

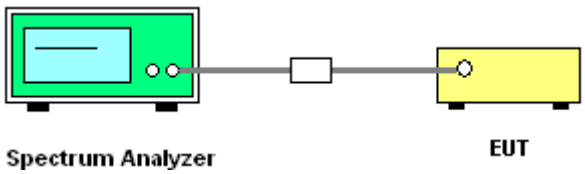
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup

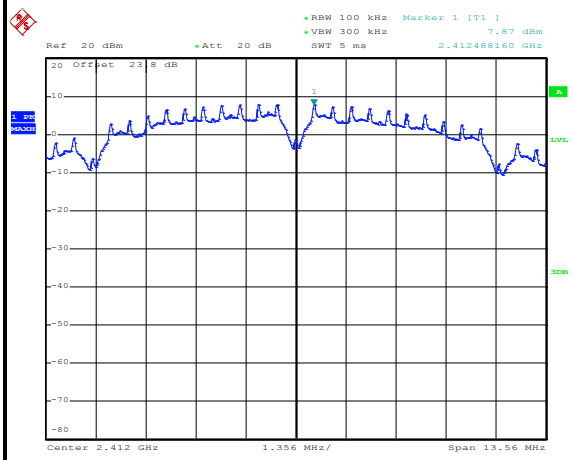


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

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

WLAN 802.11b Channel 01

100kHz PSD reference Level



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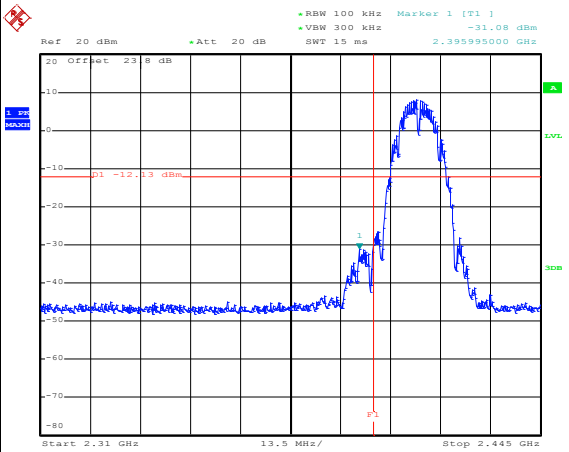
Low Channel Plot



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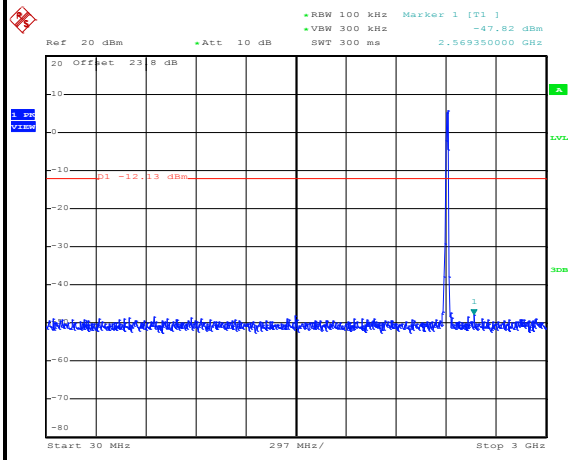
Spurious Emission 30MHz~3GHz



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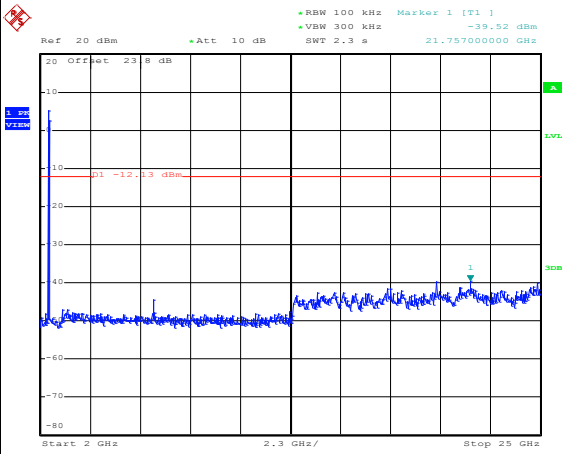
Spurious Emission 2GHz~25GHz

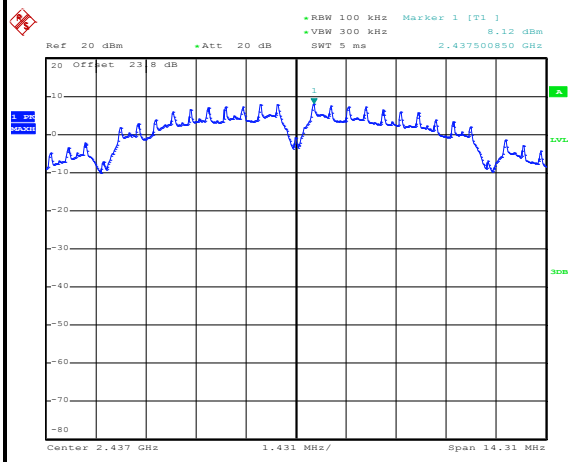


Date: 1.NOV.2016 22:57:17

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

WLAN 802.11b Channel 06

100kHz PSD reference Level



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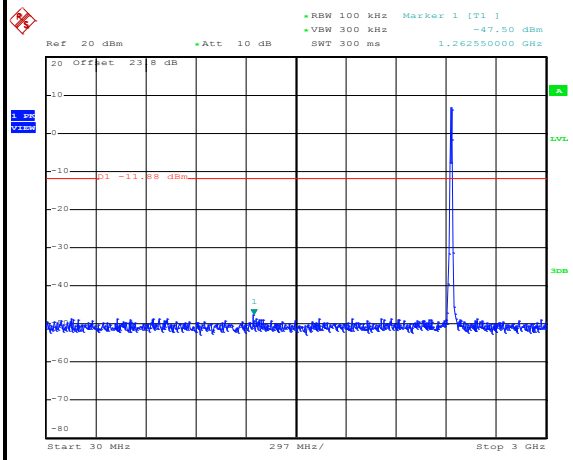
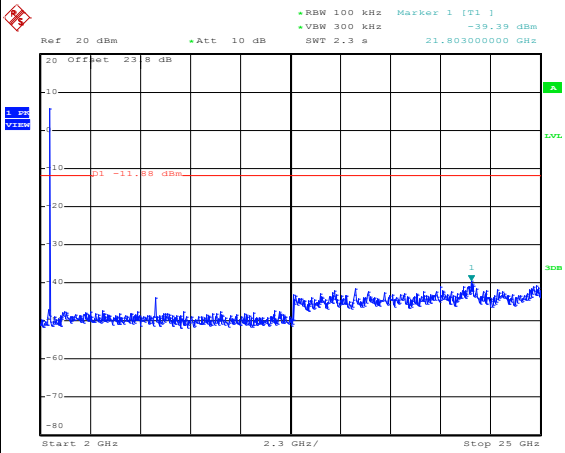
Spurious Emission 30MHz~3GHz



Date: 1.NOV.2016 23:07:14

Spurious Emission 2GHz~25GHz

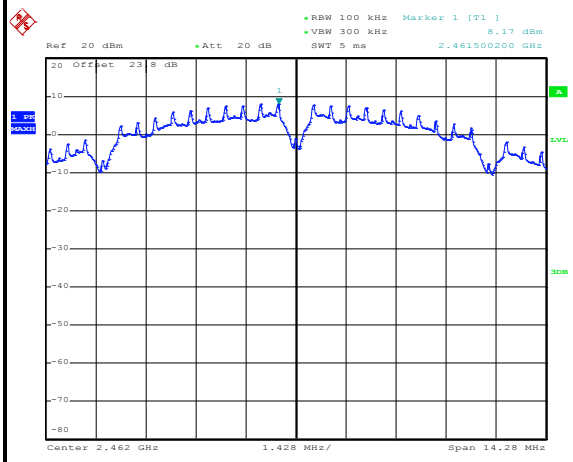


Date: 1.NOV.2016 23:07:22

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

WLAN 802.11b Channel 11

100kHz PSD reference Level



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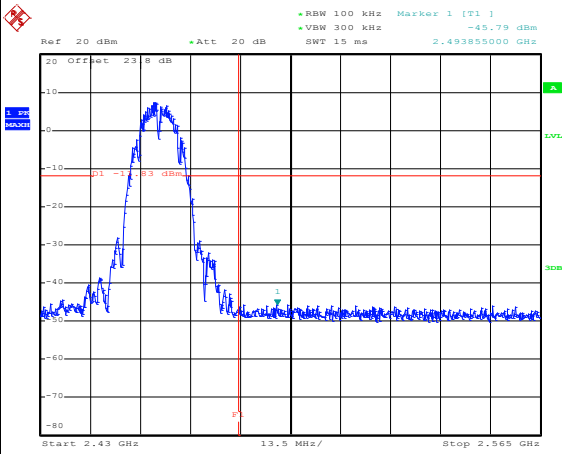
High Channel Plot



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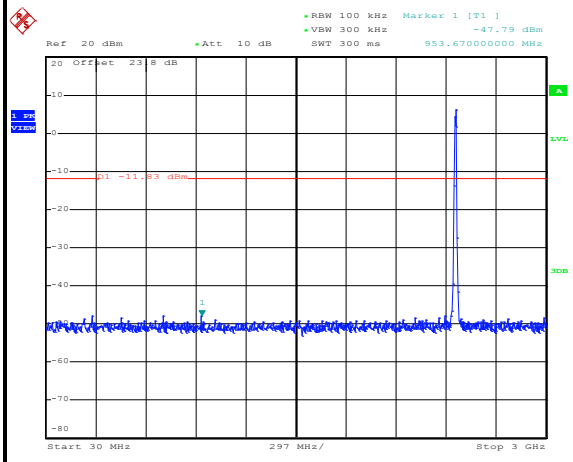
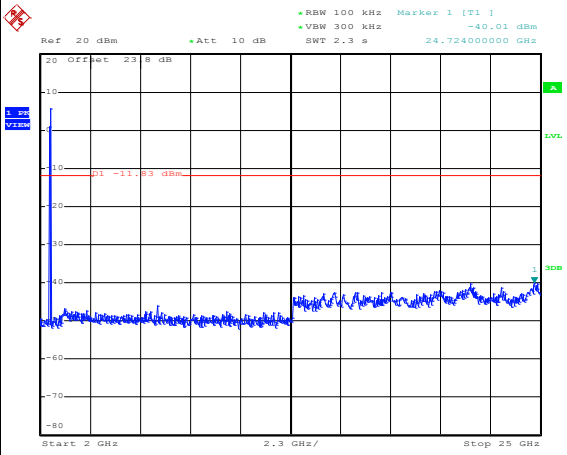
Spurious Emission 30MHz~3GHz



Date: 1.NOV.2016 23:30:19

Spurious Emission 2GHz~25GHz

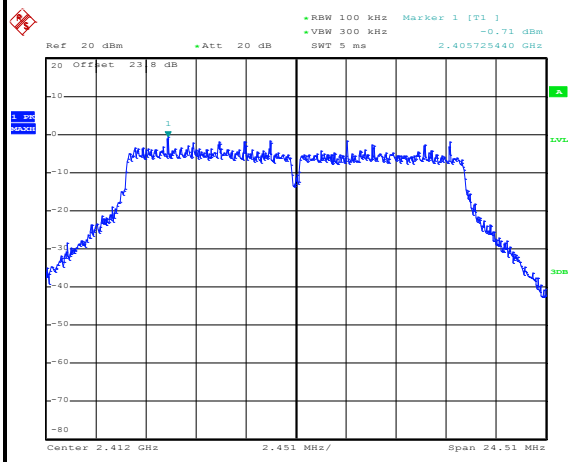


Date: 1.NOV.2016 23:30:27

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

WLAN 802.11g Channel 01

100kHz PSD reference Level



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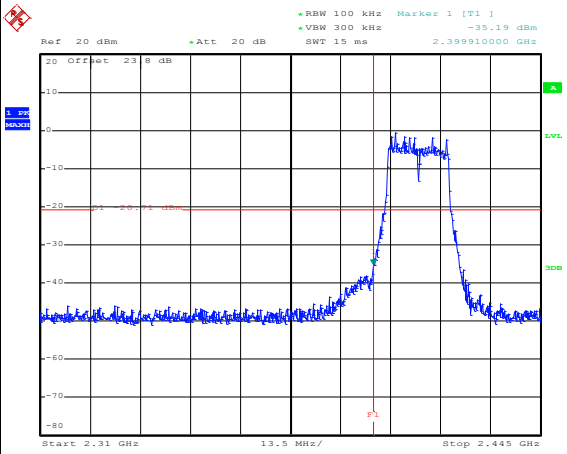
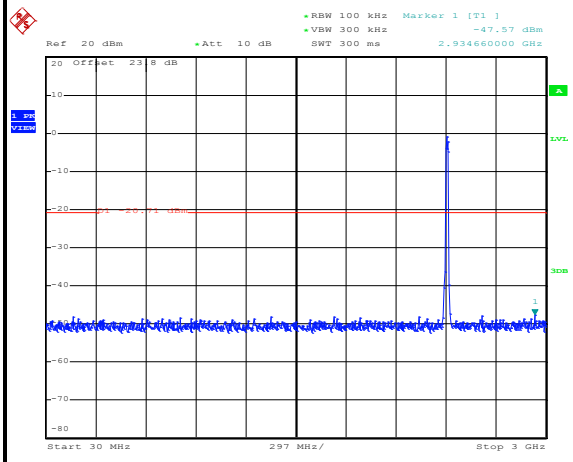
Low Channel Plot



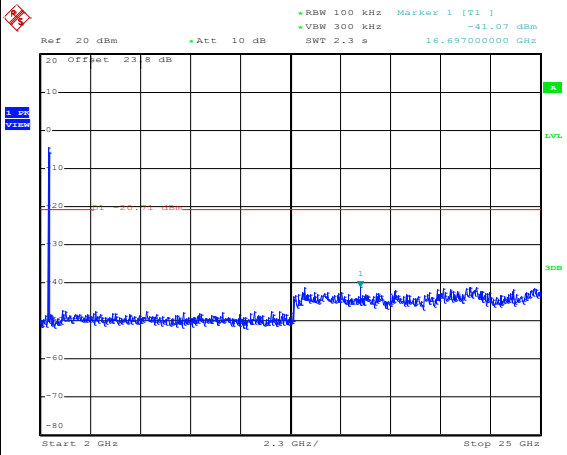
Date: 16.NOV.2016 16:53:39

Spurious Emission 30MHz~3GHz



Date: 16.NOV.2016 16:53:52

Spurious Emission 2GHz~25GHz

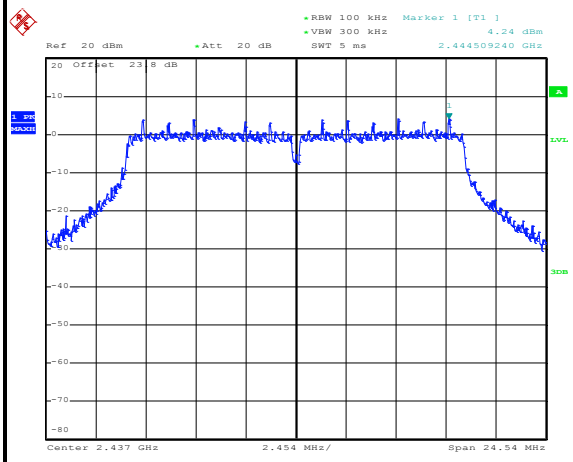


Date: 16.NOV.2016 16:54:00

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

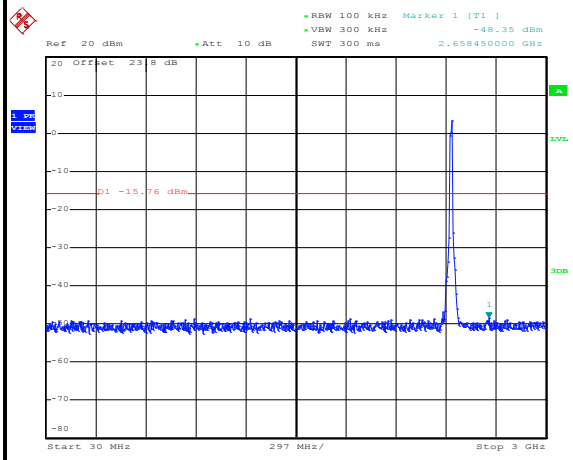
WLAN 802.11g Channel 06

100kHz PSD reference Level



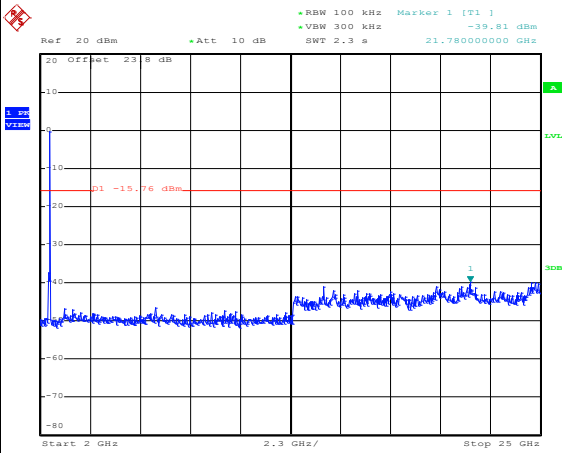
Date: 1.NOV.2016 23:39:09

Spurious Emission 30MHz~3GHz



Date: 1.NOV.2016 23:39:24

Spurious Emission 2GHz~25GHz

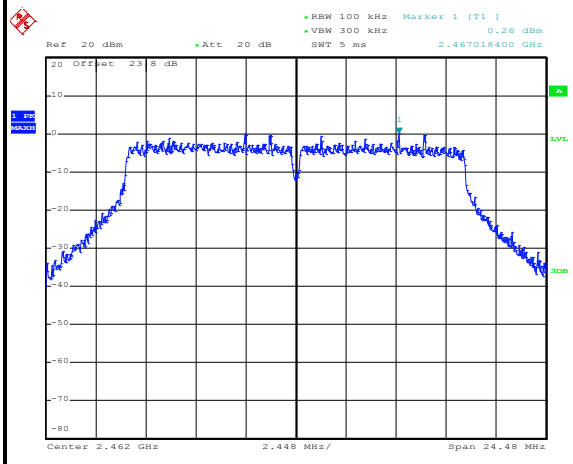


Date: 1.NOV.2016 23:39:32

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

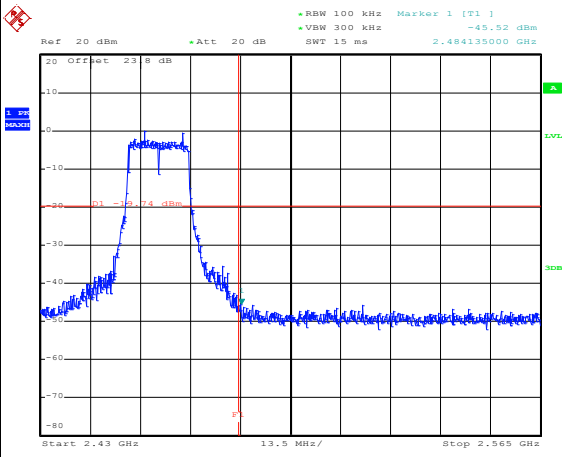
WLAN 802.11g Channel 11

100kHz PSD reference Level



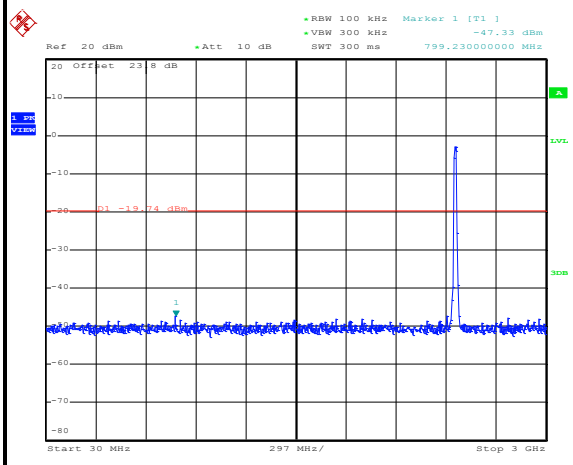
Date: 16.NOV.2016 16:56:20

High Channel Plot



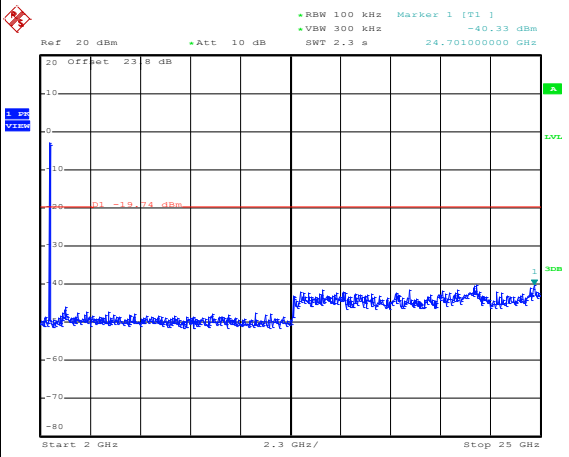
Date: 16.NOV.2016 16:56:30

Spurious Emission 30MHz~3GHz



Date: 16.NOV.2016 16:56:42

Spurious Emission 2GHz~25GHz

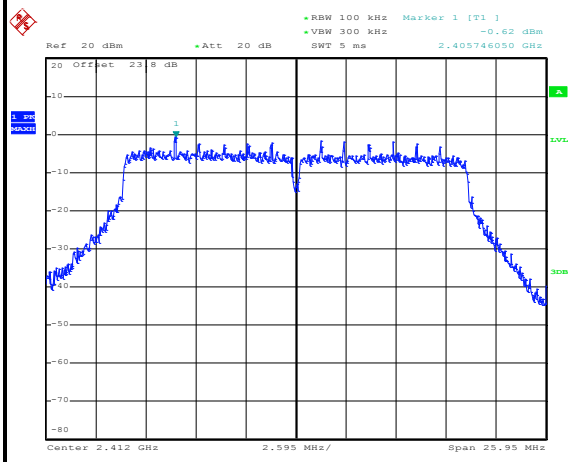


Date: 16.NOV.2016 16:56:50

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

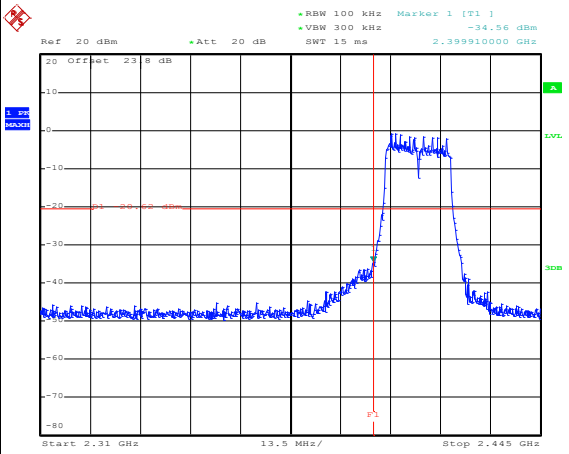
WLAN 802.11n HT20 Channel 01

100kHz PSD reference Level



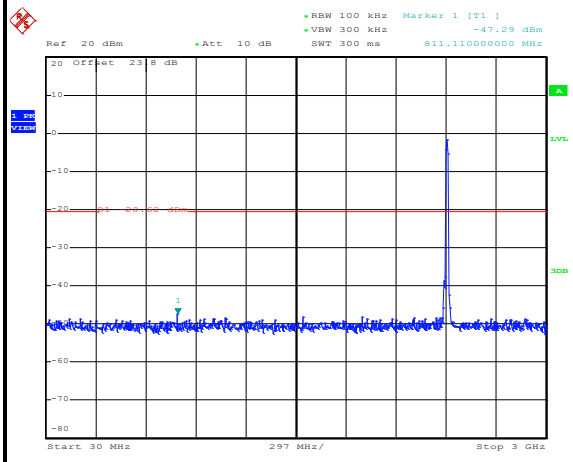
Date: 16.NOV.2016 17:01:35

Low Channel Plot



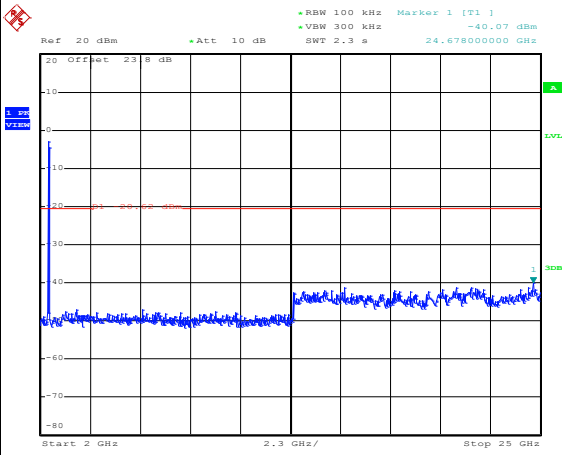
Date: 16.NOV.2016 17:01:51

Spurious Emission 30MHz~3GHz



Date: 16.NOV.2016 17:02:02

Spurious Emission 2GHz~25GHz

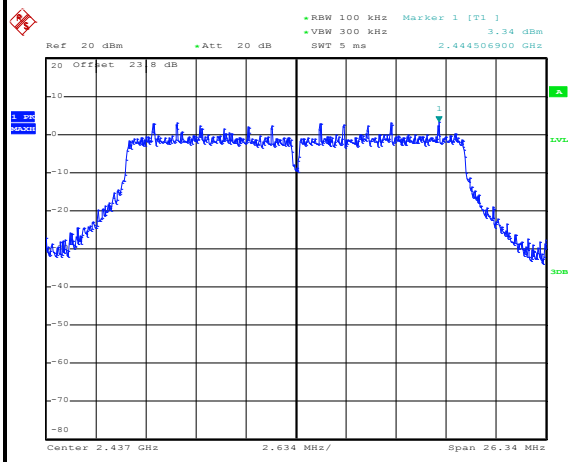


Date: 16.NOV.2016 17:02:11

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

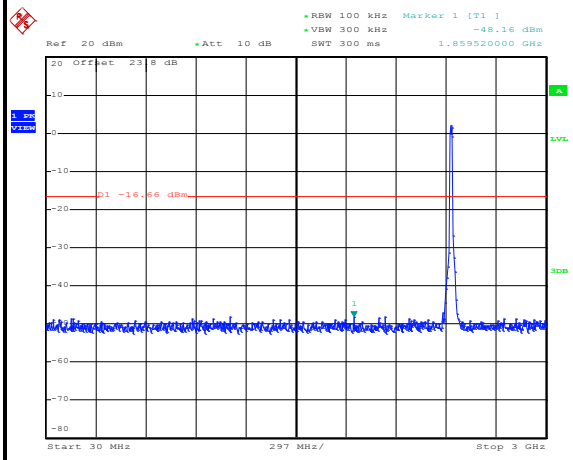
WLAN 802.11n HT20 Channel 06

100kHz PSD reference Level



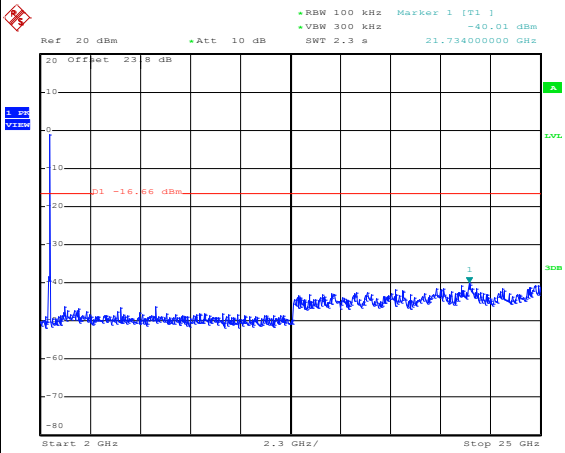
Date: 1.NOV.2016 23:56:20

Spurious Emission 30MHz~3GHz



Date: 1.NOV.2016 23:56:35

Spurious Emission 2GHz~25GHz

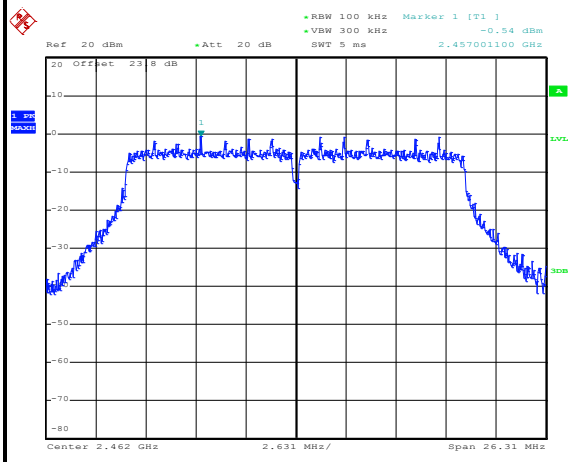


Date: 1.NOV.2016 23:56:43

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

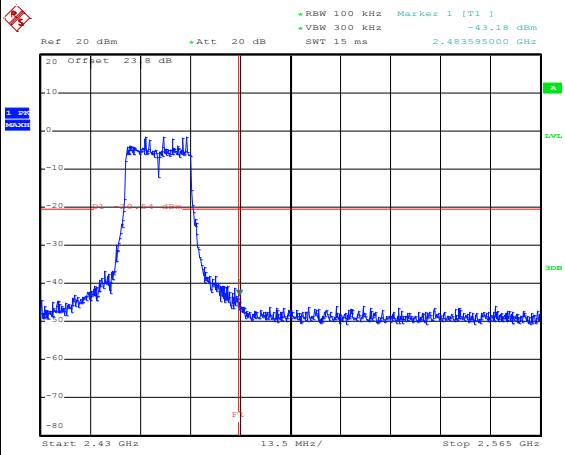
WLAN 802.11n HT20 Channel 11

100kHz PSD reference Level



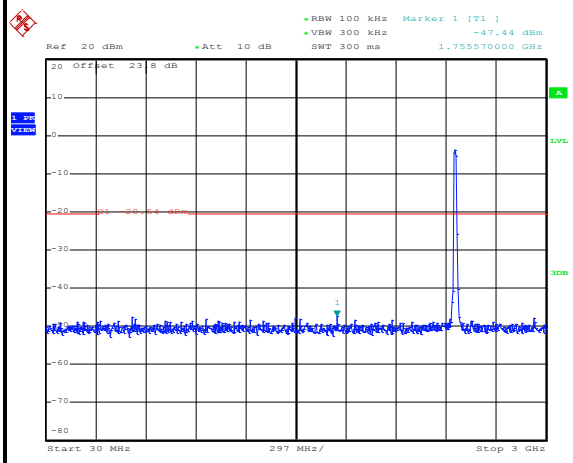
Date: 16.NOV.2016 17:04:41

High Channel Plot



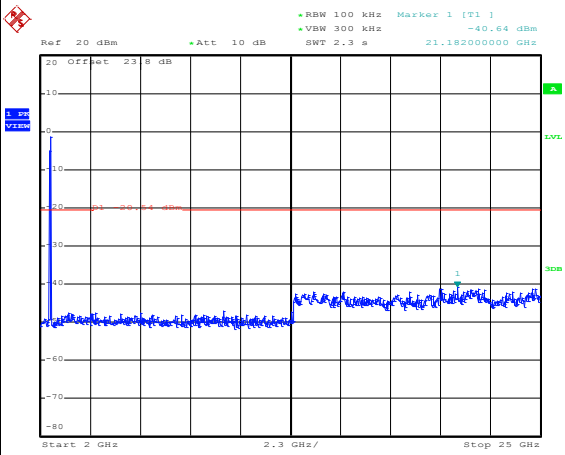
Date: 16.NOV.2016 17:04:52

Spurious Emission 30MHz~3GHz



Date: 16.NOV.2016 17:05:25

Spurious Emission 2GHz~25GHz

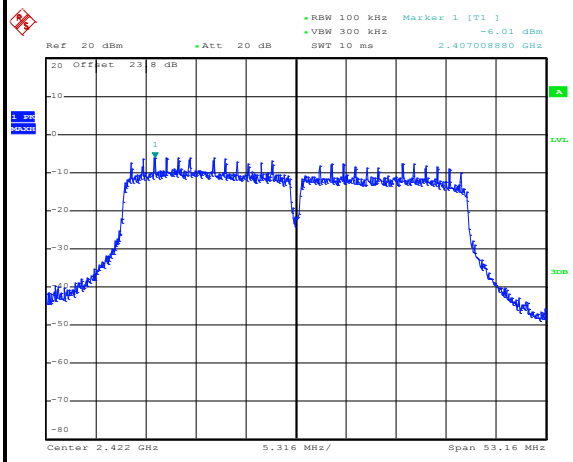


Date: 16.NOV.2016 17:05:34

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

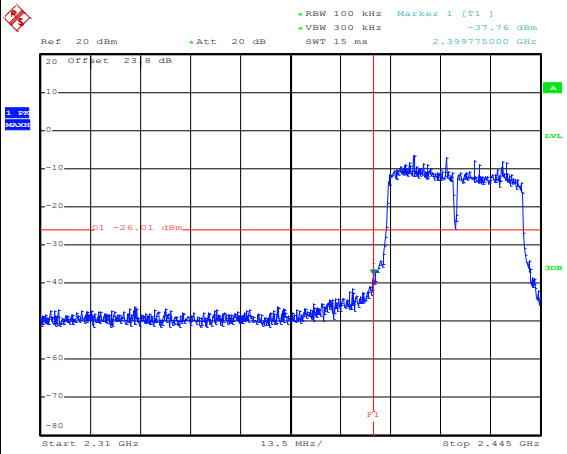
WLAN 802.11n HT40 Channel 03

100kHz PSD reference Level



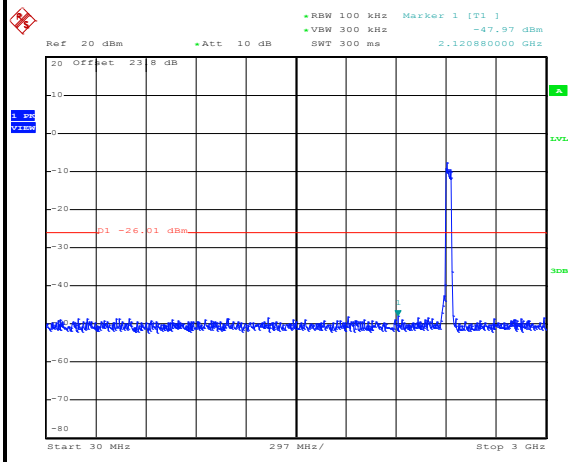
Date: 16.NOV.2016 17:17:59

Low Channel Plot



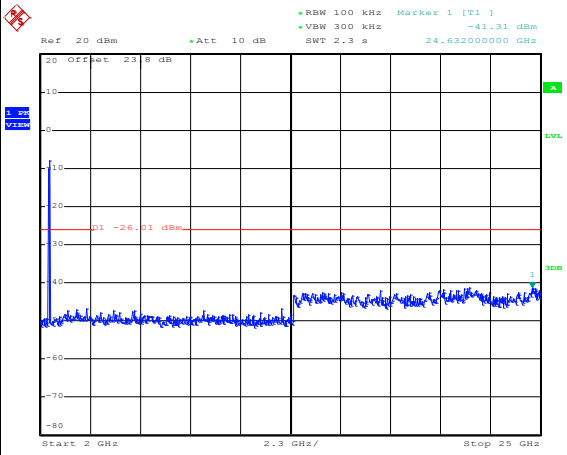
Date: 16.NOV.2016 17:18:36

Spurious Emission 30MHz~3GHz



Date: 16.NOV.2016 17:18:50

Spurious Emission 2GHz~25GHz

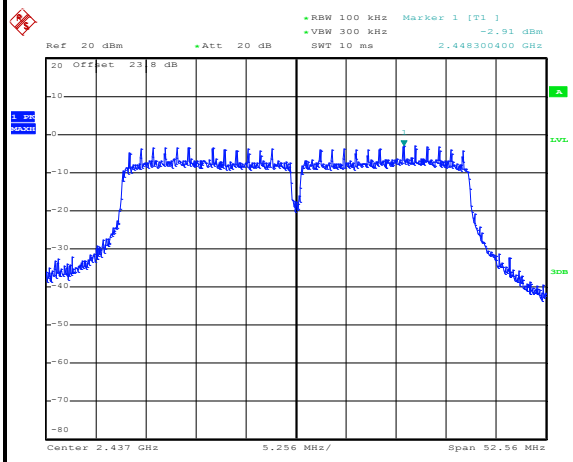


Date: 16.NOV.2016 17:18:58

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

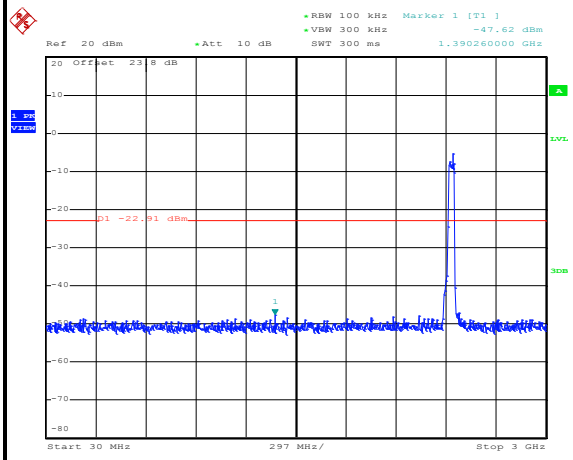
WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level



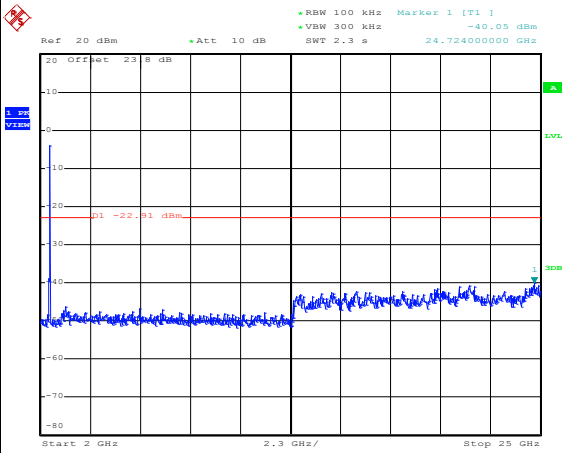
Date: 2.NOV.2016 00:31:44

Spurious Emission 30MHz~3GHz



Date: 5.NOV.2016 18:29:26

Spurious Emission 2GHz~25GHz

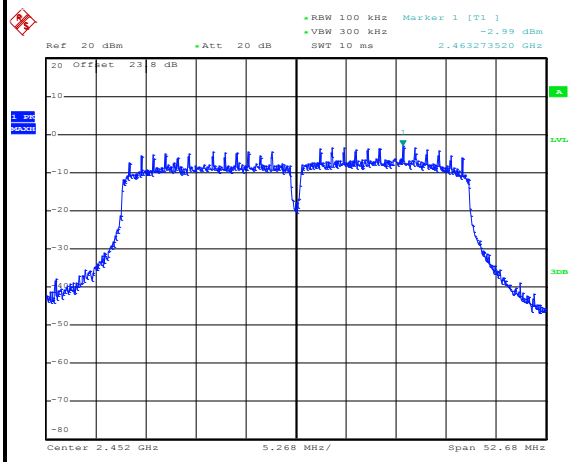


Date: 5.NOV.2016 18:29:34

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

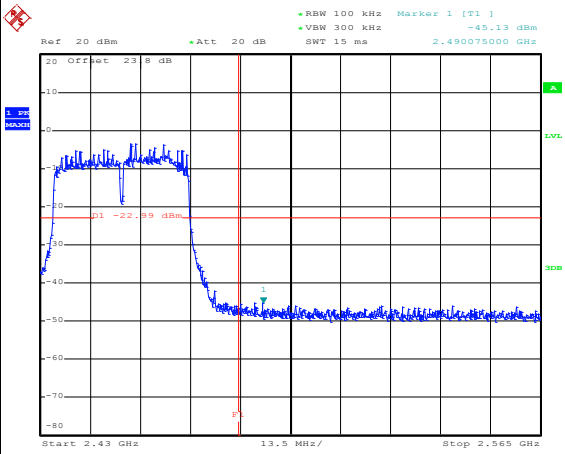
WLAN 802.11n HT40 Channel 09

100kHz PSD reference Level



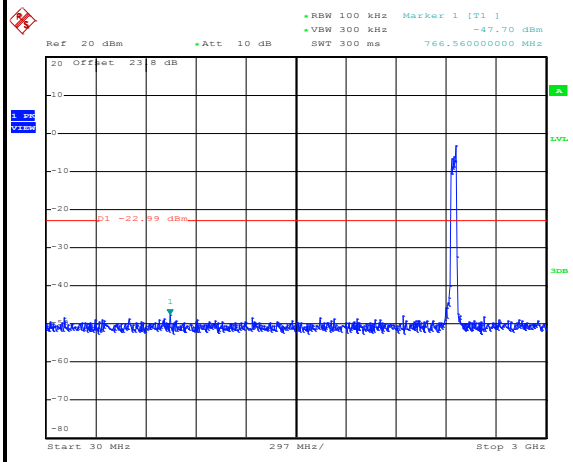
Date: 2.NOV.2016 00:38:53

High Channel Plot



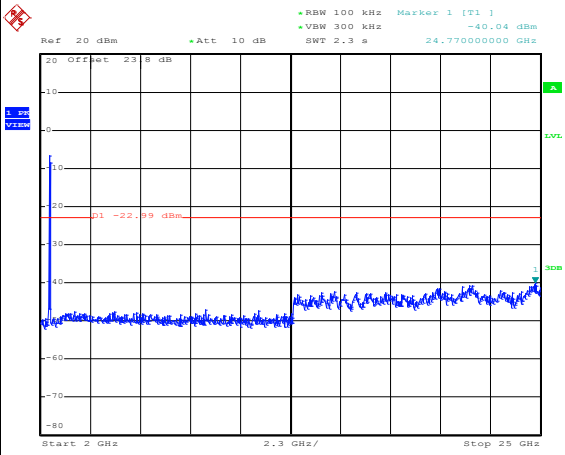
Date: 2.NOV.2016 00:39:08

Spurious Emission 30MHz~3GHz



Date: 2.NOV.2016 00:39:21

Spurious Emission 2GHz~25GHz



Date: 2.NOV.2016 00:39:30

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the FCC section 15.209 limits as below.

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

3.5.2 Measuring Instruments

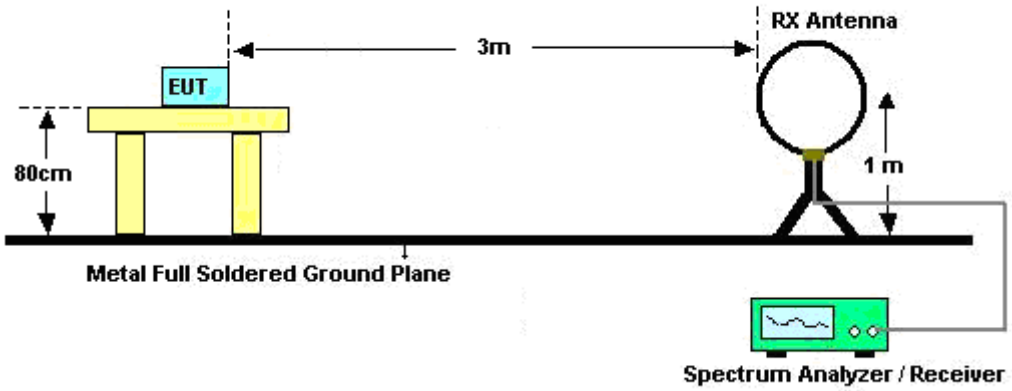
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

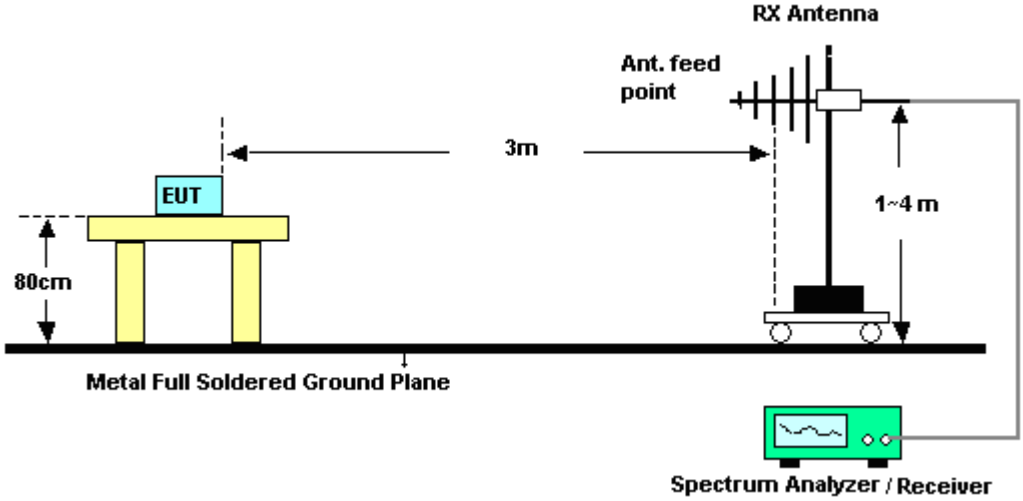
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the 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 ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

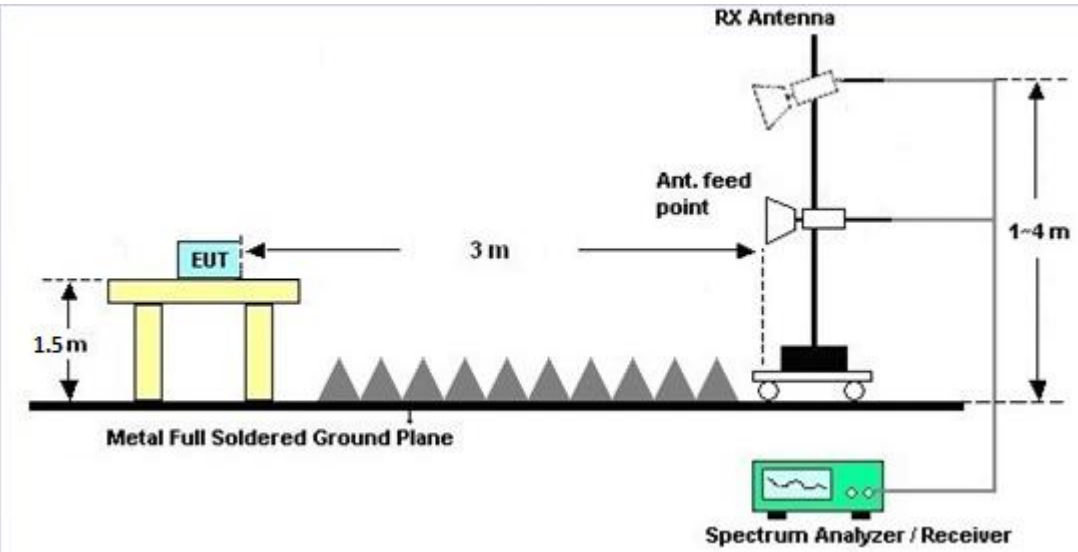
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B and C.

3.5.7 Duty Cycle

Please refer to Appendix D.

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

Please refer to Appendix B and C.

3.6 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.

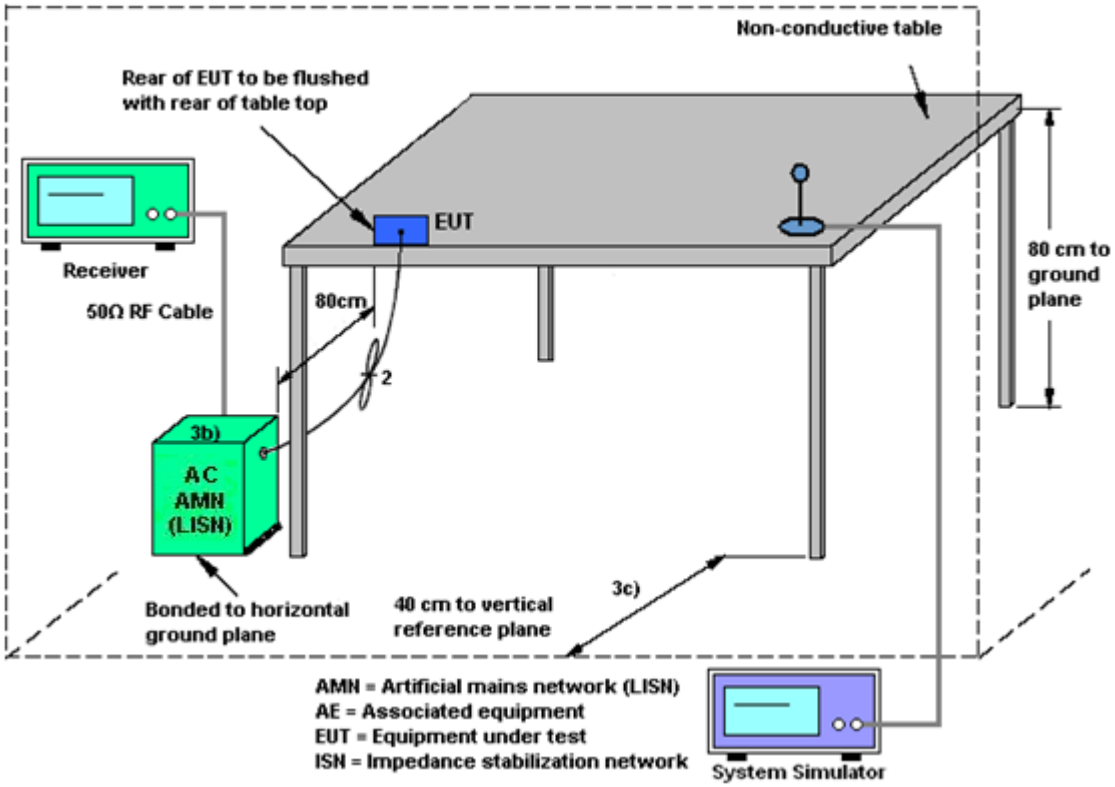
3.6.2 easuring Instruments

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

3.6.3 Test Procedures

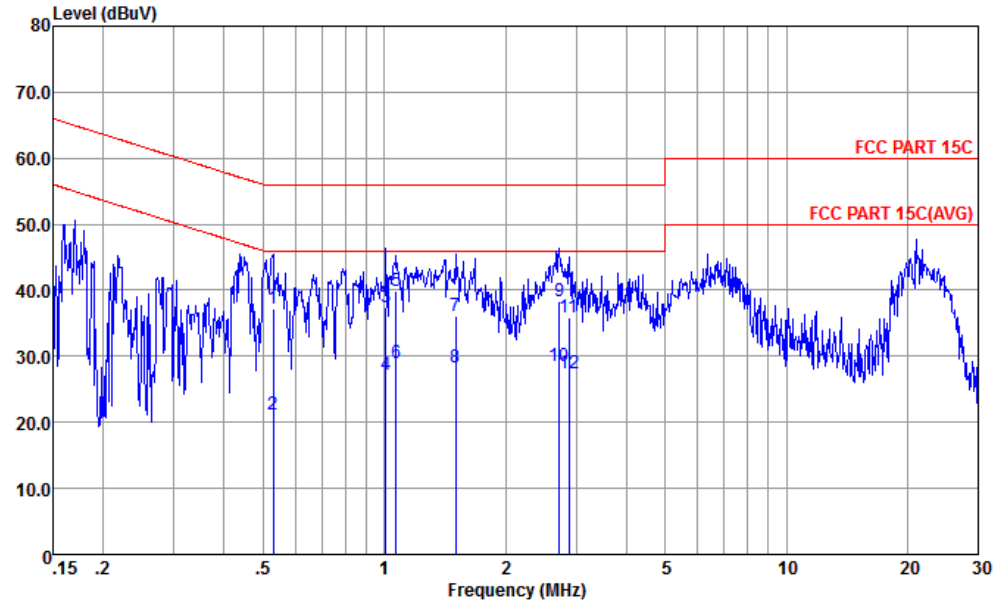
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

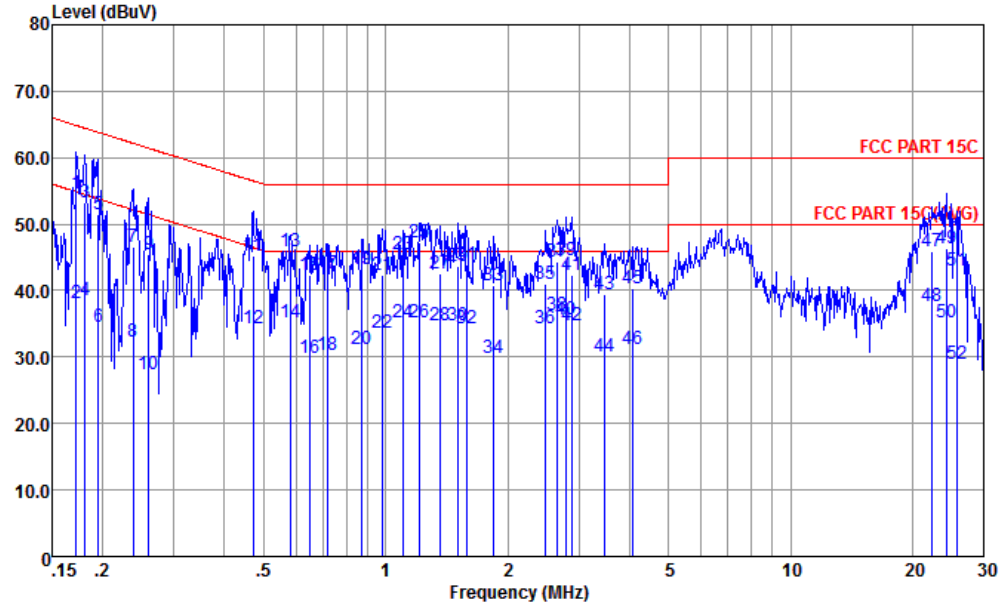
Test Mode :	Mode 2	**Temperature :**	20~22℃
Test Engineer :	Morris Li	**Relative Humidity :**	48~50%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Function Type :	CDMA BC0 Idle + Bluetooth Link + WLAN link (2.4GHz) + USB Cable (Charging from Adapter 2) + Earphone + Battery 2		



Site : CO01-KS

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.529	37.32	-18.68	56.00	26.90	0.23	10.19	QP
2	0.529	21.22	-24.78	46.00	10.80	0.23	10.19	Average
3	1.010	37.34	-18.66	56.00	26.90	0.25	10.19	QP
4	1.010	27.24	-18.76	46.00	16.80	0.25	10.19	Average
5 *	1.071	39.83	-16.17	56.00	29.40	0.24	10.19	QP
6	1.071	28.93	-17.07	46.00	18.50	0.24	10.19	Average
7	1.503	36.20	-19.80	56.00	25.80	0.21	10.19	QP
8	1.503	28.30	-17.70	46.00	17.90	0.21	10.19	Average
9	2.721	38.29	-17.71	56.00	27.90	0.18	10.21	QP
10	2.721	28.59	-17.41	46.00	18.20	0.18	10.21	Average
11	2.884	35.90	-20.10	56.00	25.51	0.18	10.21	QP
12	2.884	27.30	-18.70	46.00	16.91	0.18	10.21	Average

Test Mode :	Mode 2	Temperature :	20~22℃
Test Engineer :	Morris Li	Relative Humidity :	48~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	CDMA BC0 Idle + Bluetooth Link + WLAN link (2.4GHz) + USB Cable (Charging from Adapter 2) + Earphone + Battery 2		



Site : CO01-KS

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.172	54.57	-10.29	64.86	43.91	0.30	10.36	QP
2	0.172	38.17	-16.69	54.86	27.51	0.30	10.36	Average
3	0.181	53.36	-11.10	64.46	42.70	0.31	10.35	QP
4	0.181	38.56	-15.90	54.46	27.90	0.31	10.35	Average
5	0.195	51.45	-12.35	63.80	40.80	0.31	10.34	QP
6	0.195	34.45	-19.35	53.80	23.80	0.31	10.34	Average
7	0.238	46.51	-15.66	62.17	35.90	0.31	10.30	QP
8	0.238	32.41	-19.76	52.17	21.80	0.31	10.30	Average
9	0.260	45.49	-15.93	61.42	34.90	0.31	10.28	QP
10	0.260	27.39	-24.03	51.42	16.80	0.31	10.28	Average
11	0.471	45.31	-11.18	56.49	34.80	0.32	10.19	QP
12	0.471	34.41	-12.08	46.49	23.90	0.32	10.19	Average
13	0.582	45.91	-10.09	56.00	35.40	0.33	10.18	QP
14	0.582	35.21	-10.79	46.00	24.70	0.33	10.18	Average
15	0.647	42.31	-13.69	56.00	31.79	0.34	10.18	QP
16	0.647	29.91	-16.09	46.00	19.39	0.34	10.18	Average

Test Mode :	Mode 2	Temperature :	20~22℃
Test Engineer :	Morris Li	Relative Humidity :	48~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	CDMA BC0 Idle + Bluetooth Link + WLAN link (2.4GHz) + USB Cable (Charging from Adapter 2) + Earphone + Battery 2		

		Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	
17		0.716	42.62	-13.38	56.00	32.10	0.34	10.18	QP
18		0.716	30.22	-15.78	46.00	19.70	0.34	10.18	Average
19		0.876	43.24	-12.76	56.00	32.70	0.36	10.18	QP
20		0.876	31.24	-14.76	46.00	20.70	0.36	10.18	Average
21		0.984	42.36	-13.64	56.00	31.80	0.37	10.19	QP
22		0.984	33.66	-12.34	46.00	23.10	0.37	10.19	Average
23		1.106	45.36	-10.64	56.00	34.80	0.37	10.19	QP
24		1.106	35.26	-10.74	46.00	24.70	0.37	10.19	Average
25	*	1.216	47.26	-8.74	56.00	36.70	0.37	10.19	QP
26		1.216	35.26	-10.74	46.00	24.70	0.37	10.19	Average
27		1.367	42.46	-13.54	56.00	31.90	0.37	10.19	QP
28		1.367	34.66	-11.34	46.00	24.10	0.37	10.19	Average
29		1.511	43.76	-12.24	56.00	33.19	0.38	10.19	QP
30		1.511	34.66	-11.34	46.00	24.09	0.38	10.19	Average
31		1.585	43.96	-12.04	56.00	33.39	0.38	10.19	QP
32		1.585	34.36	-11.64	46.00	23.79	0.38	10.19	Average
33		1.848	40.77	-15.23	56.00	30.20	0.38	10.19	QP
34		1.848	29.97	-16.03	46.00	19.40	0.38	10.19	Average
35		2.487	41.08	-14.92	56.00	30.50	0.38	10.20	QP
36		2.487	34.28	-11.72	46.00	23.70	0.38	10.20	Average
37		2.650	44.38	-11.62	56.00	33.80	0.37	10.21	QP
38		2.650	36.28	-9.72	46.00	25.70	0.37	10.21	Average
39		2.779	44.48	-11.52	56.00	33.90	0.37	10.21	QP
40		2.779	35.68	-10.32	46.00	25.10	0.37	10.21	Average
41		2.884	42.39	-13.61	56.00	31.81	0.37	10.21	QP
42		2.884	34.69	-11.31	46.00	24.11	0.37	10.21	Average
43		3.472	39.40	-16.60	56.00	28.80	0.37	10.23	QP
44		3.472	30.10	-15.90	46.00	19.50	0.37	10.23	Average
45		4.070	40.40	-15.60	56.00	29.80	0.36	10.24	QP
46		4.070	31.10	-14.90	46.00	20.50	0.36	10.24	Average
47		22.416	45.86	-14.14	60.00	34.79	0.25	10.82	QP
48		22.416	37.76	-12.24	50.00	26.69	0.25	10.82	Average
49		24.271	46.40	-13.60	60.00	35.40	0.24	10.76	QP
50		24.271	35.20	-14.80	50.00	24.20	0.24	10.76	Average
51		25.727	43.10	-16.90	60.00	32.10	0.24	10.76	QP
52		25.727	28.90	-21.10	50.00	17.90	0.24	10.76	Average

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Power Meter	Anritsu	ML2495A	0932001	300MHz~40GHz	Sep. 29, 2016	Oct. 13, 2016 ~ Nov. 16, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	0846202	300MHz~40GHz	Sep. 29, 2016	Oct. 13, 2016 ~ Nov. 16, 2016	Sep. 28, 2017	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100057	9kHz-40GHz	Nov. 23, 2015	Oct. 13, 2016 ~ Nov. 16, 2016	Nov. 22, 2016	Conducted (TH05-HY)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 29, 2016	Oct. 31, 2016	Apr. 28, 2017	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2016	Oct. 31, 2016	Oct. 13, 2017	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 13, 2016	Oct. 31, 2016	Oct. 13, 2017	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 13, 2016	Oct. 31, 2016	Oct. 13, 2017	Conduction (CO01-KS)
Transient limiter	COM-POWER	LIT-153	531035	150kHz~30MHz	Aug. 26, 2016	Oct. 31, 2016	Aug. 25, 2017	Conduction (CO01-KS)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Nov. 05, 2016 ~ Nov. 08, 2016	Nov. 19, 2016	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Nov. 05, 2016 ~ Nov. 08, 2016	Sep. 01, 2017	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Oct. 15, 2016	Nov. 05, 2016 ~ Nov. 08, 2016	Oct. 14, 2017	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1522	1GHz ~ 18GHz	Mar. 30, 2016	Nov. 05, 2016 ~ Nov. 08, 2016	Mar. 31, 2017	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 19, 2015	Nov. 05, 2016 ~ Nov. 08, 2016	Nov. 18, 2016	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY52350276	10Hz ~ 44GHZ	Mar. 21, 2016	Nov. 05, 2016 ~ Nov. 08, 2016	Mar. 20, 2017	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Nov. 05, 2016 ~ Nov. 08, 2016	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Nov. 05, 2016 ~ Nov. 08, 2016	N/A	Radiation (03CH11-HY)
Preamplifier	MITEQ	TTA0204	1872107	2GHz~40GHz	Feb. 15, 2016	Nov. 05, 2016 ~ Nov. 08, 2016	Feb. 14, 2017	Radiation (03CH11-HY)
EMI Test Receiver	Keysight	N9038A(MXE)	MY55420170	N/A	Mar. 10, 2016	Nov. 05, 2016 ~ Nov. 08, 2016	Mar. 09, 2017	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170576	18GHz- 40GHz	Apr. 15, 2016	Nov. 05, 2016 ~ Nov. 08, 2016	Apr. 14, 2017	Radiation (03CH11-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.27**

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

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

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.5**

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

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

Appendix A. Conducted Test Results

Report Number : FR693003C

A1 - DTS Part

Test Engineer:	Luffy Lin	Temperature:	21~25	°C
Test Date:	2016/10/13~2016/11/16	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
11b	1Mbps	1	1	2412	14.35	9.04	0.50	Pass
11b	1Mbps	1	6	2437	14.25	9.54	0.50	Pass
11b	1Mbps	1	11	2462	14.45	9.52	0.50	Pass
11g	6Mbps	1	1	2412	17.80	16.34	0.50	Pass
11g	6Mbps	1	6	2437	18.65	16.36	0.50	Pass
11g	6Mbps	1	11	2462	18.00	16.32	0.50	Pass
HT20	MCS0	1	1	2412	18.95	17.30	0.50	Pass
HT20	MCS0	1	6	2437	19.25	17.56	0.50	Pass
HT20	MCS0	1	11	2462	18.75	17.54	0.50	Pass
HT40	MCS0	1	3	2422	36.60	35.44	0.50	Pass
HT40	MCS0	1	6	2437	37.00	35.04	0.50	Pass
HT40	MCS0	1	9	2452	36.40	35.12	0.50	Pass

TEST RESULTS DATA
Peak Power Table

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
11b	1Mbps	1	1	2412	19.51	30.00	-3.00	16.51	36.00	Pass
11b	1Mbps	1	6	2437	19.50	30.00	-3.00	16.50	36.00	Pass
11b	1Mbps	1	11	2462	19.37	30.00	-3.00	16.37	36.00	Pass
11g	6Mbps	1	1	2412	21.21	30.00	-3.00	18.21	36.00	Pass
11g	6Mbps	1	6	2437	23.00	30.00	-3.00	20.00	36.00	Pass
11g	6Mbps	1	11	2462	21.42	30.00	-3.00	18.42	36.00	Pass
HT20	MCS0	1	1	2412	21.11	30.00	-3.00	18.11	36.00	Pass
HT20	MCS0	1	6	2437	22.74	30.00	-3.00	19.74	36.00	Pass
HT20	MCS0	1	11	2462	21.34	30.00	-3.00	18.34	36.00	Pass
HT40	MCS0	1	3	2422	18.21	30.00	-3.00	15.21	36.00	Pass
HT40	MCS0	1	6	2437	21.08	30.00	-3.00	18.08	36.00	Pass
HT40	MCS0	1	9	2452	20.35	30.00	-3.00	17.35	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

2.4GHz Band						
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
11b	1Mbps	1	1	2412	0.09	16.98
11b	1Mbps	1	6	2437	0.09	16.95
11b	1Mbps	1	11	2462	0.09	16.94
11g	6Mbps	1	1	2412	0.65	11.59
11g	6Mbps	1	6	2437	0.65	15.85
11g	6Mbps	1	11	2462	0.65	13.17
HT20	MCS0	1	1	2412	0.63	11.66
HT20	MCS0	1	6	2437	0.63	14.96
HT20	MCS0	1	11	2462	0.63	13.15
HT40	MCS0	1	3	2422	1.25	7.48
HT40	MCS0	1	6	2437	1.25	10.99
HT40	MCS0	1	9	2452	1.25	10.58

TEST RESULTS DATA
Peak Power Density

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-4.70	-3.00	8.00	Pass
11b	1Mbps	1	6	2437	-6.12	-3.00	8.00	Pass
11b	1Mbps	1	11	2462	-6.32	-3.00	8.00	Pass
11g	6Mbps	1	1	2412	-14.97	-3.00	8.00	Pass
11g	6Mbps	1	6	2437	-9.69	-3.00	8.00	Pass
11g	6Mbps	1	11	2462	-14.11	-3.00	8.00	Pass
HT20	MCS0	1	1	2412	-15.41	-3.00	8.00	Pass
HT20	MCS0	1	6	2437	-11.38	-3.00	8.00	Pass
HT20	MCS0	1	11	2462	-15.79	-3.00	8.00	Pass
HT40	MCS0	1	3	2422	-19.63	-3.00	8.00	Pass
HT40	MCS0	1	6	2437	-16.88	-3.00	8.00	Pass
HT40	MCS0	1	9	2452	-17.45	-3.00	8.00	Pass

Appendix B. Radiated Spurious Emission

Test Engineer :	J.C. Liang and Jacky Hung	**Temperature :**	20~23°C
		Relative Humidity :	58~63%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)
802.11b CH 01 2412MHz		2389.8	55.29	-18.71	74	53.19	27.19	8.89	33.98	332	107	P	H
		2390	46.1	-7.9	54	44	27.19	8.89	33.98	332	107	A	H
	*	2412	109.49	-	-	107.34	27.24	8.89	33.98	332	107	P	H
	*	2412	106.06	-	-	103.91	27.24	8.89	33.98	332	107	A	H
													H
													H
		2388.54	54.08	-19.92	74	51.99	27.19	8.89	33.99	384	55	P	V
		2390	44.52	-9.48	54	42.42	27.19	8.89	33.98	384	55	A	V
	*	2412	106.31	-	-	104.16	27.24	8.89	33.98	384	55	P	V
	*	2412	102.74	-	-	100.59	27.24	8.89	33.98	384	55	A	V
													V
													V
802.11b CH 06 2437MHz		2389.1	55.64	-18.36	74	53.55	27.19	8.89	33.99	315	90	P	H
		2381.54	45.12	-8.88	54	43.08	27.14	8.89	33.99	315	90	A	H
	*	2437	109.33	-	-	107.02	27.34	8.94	33.97	315	90	P	H
	*	2437	105.8	-	-	103.49	27.34	8.94	33.97	315	90	A	H
		2494.19	54.23	-19.77	74	51.69	27.5	8.98	33.94	315	90	P	H
		2492.65	44.38	-9.62	54	41.84	27.5	8.98	33.94	315	90	A	H
		2379.16	54.43	-19.57	74	52.46	27.14	8.82	33.99	379	55	P	V
		2381.68	43.86	-10.14	54	41.82	27.14	8.89	33.99	379	55	A	V
	*	2437	107.05	-	-	104.74	27.34	8.94	33.97	379	55	P	V
	*	2437	103.52	-	-	101.21	27.34	8.94	33.97	379	55	A	V
		2488.1	54.07	-19.93	74	51.54	27.5	8.98	33.95	379	55	P	V
		2491.6	43.79	-10.21	54	41.26	27.5	8.98	33.95	379	55	A	V

802.11b CH 11 2462MHz	*	2462	108.55	-	-	106.13	27.4	8.98	33.96	320	89	P	H
	*	2462	105.02	-	-	102.6	27.4	8.98	33.96	320	89	A	H
		2483.68	54.6	-19.4	74	52.12	27.45	8.98	33.95	320	89	P	H
		2487.84	44.81	-9.19	54	42.28	27.5	8.98	33.95	320	89	A	H
													H
													H
	*	2462	106.6	-	-	104.18	27.4	8.98	33.96	363	57	P	V
	*	2462	103.08	-	-	100.66	27.4	8.98	33.96	363	57	A	V
		2486.92	54.58	-19.42	74	52.1	27.45	8.98	33.95	363	57	P	V
		2484.68	44.5	-9.5	54	42.02	27.45	8.98	33.95	363	57	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	32.89	-41.11	74	41.52	31.69	10.77	51.09	100	0	P	H
													H
													H
													H
		4824	33.52	-40.48	74	42.15	31.69	10.77	51.09	100	0	P	V
													V
													V
													V
802.11b CH 06 2437MHz		4874	33.5	-40.5	74	41.9	31.78	10.88	51.06	100	0	P	H
		7311	38.64	-35.36	74	39.09	37.27	12.79	50.51	100	0	P	H
													H
													H
		4874	32.44	-41.56	74	40.84	31.78	10.88	51.06	100	0	P	V
		7311	38.95	-35.05	74	39.4	37.27	12.79	50.51	100	0	P	V
													V
													V
802.11b CH 11 2462MHz		4924	33.52	-40.48	74	41.68	31.88	11	51.04	100	0	P	H
		7386	38.49	-35.51	74	38.74	37.38	12.88	50.51	100	0	P	H
													H
													H
		4924	32.23	-41.77	74	40.39	31.88	11	51.04	100	0	P	V
		7386	37.48	-36.52	74	37.73	37.38	12.88	50.51	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2388.015	61.15	-12.85	74	59.06	27.19	8.89	33.99	297	99	P	H
		2390	49.02	-4.98	54	46.92	27.19	8.89	33.98	297	99	A	H
	*	2412	105.74	-	-	103.59	27.24	8.89	33.98	297	99	P	H
	*	2412	97.01	-	-	94.86	27.24	8.89	33.98	297	99	A	H
													H
													H
		2390	57.79	-16.21	74	55.69	27.19	8.89	33.98	336	53	P	V
		2389.59	46.06	-7.94	54	43.97	27.19	8.89	33.99	336	53	A	V
	*	2412	103.43	-	-	101.28	27.24	8.89	33.98	336	53	P	V
	*	2412	94.47	-	-	92.32	27.24	8.89	33.98	336	53	A	V
													V
													V
802.11g CH 06 2437MHz		2387.56	58.95	-15.05	74	56.86	27.19	8.89	33.99	289	95	P	H
		2384.9	49.96	-4.04	54	47.92	27.14	8.89	33.99	289	95	A	H
	*	2437	110.24	-	-	107.93	27.34	8.94	33.97	289	95	P	H
	*	2437	101.56	-	-	99.25	27.34	8.94	33.97	289	95	A	H
		2489.78	55.24	-18.76	74	52.71	27.5	8.98	33.95	289	95	P	H
		2489.43	46.36	-7.64	54	43.83	27.5	8.98	33.95	289	95	A	H
		2384.2	55.71	-18.29	74	53.67	27.14	8.89	33.99	378	54	P	V
		2384.9	46.76	-7.24	54	44.72	27.14	8.89	33.99	378	54	A	V
	*	2437	108.65	-	-	106.34	27.34	8.94	33.97	378	54	P	V
	*	2437	99.81	-	-	97.5	27.34	8.94	33.97	378	54	A	V
		2489.99	53.95	-20.05	74	51.42	27.5	8.98	33.95	378	54	P	V
		2489.15	44.9	-9.1	54	42.37	27.5	8.98	33.95	378	54	A	V

802.11g CH 11 2462MHz	*	2462	106.34	-	-	103.92	27.4	8.98	33.96	325	100	P	H
	*	2462	97.87	-	-	95.45	27.4	8.98	33.96	325	100	A	H
		2484.36	62.03	-11.97	74	59.55	27.45	8.98	33.95	325	100	P	H
		2483.52	48.12	-5.88	54	45.64	27.45	8.98	33.95	325	100	A	H
													H
													H
	*	2462	104.26	-	-	101.84	27.4	8.98	33.96	363	55	P	V
	*	2462	95.5	-	-	93.08	27.4	8.98	33.96	363	55	A	V
		2484.16	61.1	-12.9	74	58.62	27.45	8.98	33.95	363	55	P	V
		2483.52	47.58	-6.42	54	45.1	27.45	8.98	33.95	363	55	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	33.61	-40.39	74	42.24	31.69	10.77	51.09	100	0	P	H
													H
													H
													H
		4824	32.66	-41.34	74	41.29	31.69	10.77	51.09	100	0	P	V
													V
													V
													V
802.11g CH 06 2437MHz		4874	32.33	-41.67	74	40.73	31.78	10.88	51.06	100	0	P	H
		7311	39.35	-34.65	74	39.8	37.27	12.79	50.51	100	0	P	H
													H
													H
		4874	33.74	-40.26	74	42.14	31.78	10.88	51.06	100	0	P	V
		7311	38.87	-35.13	74	39.32	37.27	12.79	50.51	100	0	P	V
													V
													V
802.11g CH 11 2462MHz		4924	33.01	-40.99	74	41.17	31.88	11	51.04	100	0	P	H
		7386	37.99	-36.01	74	38.24	37.38	12.88	50.51	100	0	P	H
													H
													H
		4924	32.74	-41.26	74	40.9	31.88	11	51.04	100	0	P	V
		7386	38.53	-35.47	74	38.78	37.38	12.88	50.51	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n 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)
		2388.645	62.48	-11.52	74	60.39	27.19	8.89	33.99	299	100	P	H
		2389.8	50.8	-3.2	54	48.7	27.19	8.89	33.98	299	100	A	H
	*	2412	105.5	-	-	103.35	27.24	8.89	33.98	299	100	P	H
	*	2412	96.86	-	-	94.71	27.24	8.89	33.98	299	100	A	H
802.11n													H
HT20													H
CH 01		2389.38	58.49	-15.51	74	56.4	27.19	8.89	33.99	384	57	P	V
2412MHz		2390	47.65	-6.35	54	45.55	27.19	8.89	33.98	384	57	A	V
	*	2412	103.15	-	-	101	27.24	8.89	33.98	384	57	P	V
	*	2412	94.28	-	-	92.13	27.24	8.89	33.98	384	57	A	V
													V
													V
		2385.46	59.48	-14.52	74	57.44	27.14	8.89	33.99	322	88	P	H
		2385.32	49.79	-4.21	54	47.75	27.14	8.89	33.99	322	88	A	H
	*	2437	109.35	-	-	107.04	27.34	8.94	33.97	322	88	P	H
	*	2437	100.5	-	-	98.19	27.34	8.94	33.97	322	88	A	H
802.11n		2494.61	55.25	-18.75	74	52.71	27.5	8.98	33.94	322	88	P	H
HT20		2489.01	46.52	-7.48	54	43.99	27.5	8.98	33.95	322	88	A	H
CH 06		2384.48	55.1	-18.9	74	53.06	27.14	8.89	33.99	378	56	P	V
2437MHz		2385.46	47.14	-6.86	54	45.1	27.14	8.89	33.99	378	56	A	V
	*	2437	107.2	-	-	104.89	27.34	8.94	33.97	378	56	P	V
	*	2437	98.67	-	-	96.36	27.34	8.94	33.97	378	56	A	V
		2484.25	54.55	-19.45	74	52.07	27.45	8.98	33.95	378	56	P	V
		2488.87	45.2	-8.8	54	42.67	27.5	8.98	33.95	378	56	A	V

	*	2462	106.58	-	-	104.16	27.4	8.98	33.96	310	93	P	H
	*	2462	97.31	-	-	94.89	27.4	8.98	33.96	310	93	A	H
		2484.16	67.66	-6.34	74	65.18	27.45	8.98	33.95	310	93	P	H
		2483.64	50.16	-3.84	54	47.68	27.45	8.98	33.95	310	93	A	H
802.11n													H
HT20													H
CH 11	*	2462	104.32	-	-	101.9	27.4	8.98	33.96	366	57	P	V
2462MHz	*	2462	95.51	-	-	93.09	27.4	8.98	33.96	366	57	A	V
		2484.16	62.18	-11.82	74	59.7	27.45	8.98	33.95	366	57	P	V
		2483.76	48.95	-5.05	54	46.47	27.45	8.98	33.95	366	57	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)
		4824	32.49	-41.51	74	41.12	31.69	10.77	51.09	100	0	P	H
													H
802.11n													H
HT20													H
CH 01		4824	32.92	-41.08	74	41.55	31.69	10.77	51.09	100	0	P	V
2412MHz													V
													V
													V
		4874	32.62	-41.38	74	41.02	31.78	10.88	51.06	100	0	P	H
		7311	39.03	-34.97	74	39.48	37.27	12.79	50.51	100	0	P	H
802.11n													H
HT20													H
CH 06		4874	33.38	-40.62	74	41.78	31.78	10.88	51.06	100	0	P	V
2437MHz		7311	39.02	-34.98	74	39.47	37.27	12.79	50.51	100	0	P	V
													V
													V
		4924	32.72	-41.28	74	40.88	31.88	11	51.04	100	0	P	H
		7386	37.7	-36.3	74	37.95	37.38	12.88	50.51	100	0	P	H
802.11n													H
HT20													H
CH 11		4924	33.93	-40.07	74	42.09	31.88	11	51.04	100	0	P	V
2462MHz		7386	37.68	-36.32	74	37.93	37.38	12.88	50.51	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
		2388.96	60.14	-13.86	74	58.05	27.19	8.89	33.99	294	90	P	H
		2389.52	49.29	-4.71	54	47.2	27.19	8.89	33.99	294	90	A	H
	*	2422	100.57	-	-	98.31	27.29	8.94	33.97	294	90	P	H
	*	2422	92.19	-	-	89.93	27.29	8.94	33.97	294	90	A	H
802.11n		2490.76	54.69	-19.31	74	52.16	27.5	8.98	33.95	294	90	P	H
HT40		2495.1	45.08	-8.92	54	42.54	27.5	8.98	33.94	294	90	A	H
CH 03		2389.94	55.94	-18.06	74	53.84	27.19	8.89	33.98	383	55	P	V
2422MHz		2388.12	46.54	-7.46	54	44.45	27.19	8.89	33.99	383	55	A	V
	*	2422	98.04	-	-	95.78	27.29	8.94	33.97	383	55	P	V
	*	2422	88.89	-	-	86.63	27.29	8.94	33.97	383	55	A	V
		2489.85	53.37	-20.63	74	50.84	27.5	8.98	33.95	383	55	P	V
		2496.92	44.69	-9.31	54	42.15	27.5	8.98	33.94	383	55	A	V
		2388.96	60.06	-13.94	74	57.97	27.19	8.89	33.99	287	88	P	H
		2389.94	50.82	-3.18	54	48.72	27.19	8.89	33.98	287	88	A	H
	*	2437	103.27	-	-	100.96	27.34	8.94	33.97	287	88	P	H
	*	2437	94.82	-	-	92.51	27.34	8.94	33.97	287	88	A	H
802.11n		2486.07	54.29	-19.71	74	51.81	27.45	8.98	33.95	287	88	P	H
HT40		2485.51	45.41	-8.59	54	42.93	27.45	8.98	33.95	287	88	A	H
CH 06		2389.1	55.56	-18.44	74	53.47	27.19	8.89	33.99	378	48	P	V
2437MHz		2389.8	46.74	-7.26	54	44.64	27.19	8.89	33.98	378	48	A	V
	*	2437	101.16	-	-	98.85	27.34	8.94	33.97	378	48	P	V
	*	2437	92.9	-	-	90.59	27.34	8.94	33.97	378	48	A	V
		2489.99	53.66	-20.34	74	51.13	27.5	8.98	33.95	378	48	P	V
		2483.55	45.02	-8.98	54	42.54	27.45	8.98	33.95	378	48	A	V

		2381.54	54.32	-19.68	74	52.28	27.14	8.89	33.99	320	100	P	H
		2382.1	44.67	-9.33	54	42.63	27.14	8.89	33.99	320	100	A	H
	*	2452	101.6	-	-	99.28	27.34	8.94	33.96	320	100	P	H
	*	2452	92.85	-	-	90.53	27.34	8.94	33.96	320	100	A	H
802.11n		2484.74	58.48	-15.52	74	56	27.45	8.98	33.95	320	100	P	H
HT40		2483.83	48.24	-5.76	54	45.76	27.45	8.98	33.95	320	100	A	H
CH 09		2380.98	54.14	-19.86	74	52.1	27.14	8.89	33.99	363	57	P	V
2452MHz		2373.42	44.32	-9.68	54	42.35	27.14	8.82	33.99	363	57	A	V
	*	2452	99.23	-	-	96.91	27.34	8.94	33.96	363	57	P	V
	*	2452	90.85	-	-	88.53	27.34	8.94	33.96	363	57	A	V
		2484.04	56.96	-17.04	74	54.48	27.45	8.98	33.95	363	57	P	V
		2483.62	47.07	-6.93	54	44.59	27.45	8.98	33.95	363	57	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)
		4844	32.17	-41.83	74	40.76	31.72	10.77	51.08	100	0	P	H
		7266	38.29	-35.71	74	38.83	37.23	12.74	50.51	100	0	P	H
802.11n													H
HT40													H
CH 03		4844	31.51	-42.49	74	40.1	31.72	10.77	51.08	100	0	P	V
2422MHz		7266	38.97	-35.03	74	39.51	37.23	12.74	50.51	100	0	P	V
													V
													V
		4874	33.28	-40.72	74	41.68	31.78	10.88	51.06	100	0	P	H
		7311	38.31	-35.69	74	38.76	37.27	12.79	50.51	100	0	P	H
802.11n													H
HT40													H
CH 06		4874	32.39	-41.61	74	40.79	31.78	10.88	51.06	100	0	P	V
2437MHz		7311	38.08	-35.92	74	38.53	37.27	12.79	50.51	100	0	P	V
													V
													V
		4904	32.7	-41.3	74	40.92	31.84	11	51.06	100	0	P	H
		7356	39.37	-34.63	74	39.72	37.33	12.83	50.51	100	0	P	H
802.11n													H
HT40													H
CH 09		4904	32.84	-41.16	74	41.06	31.84	11	51.06	100	0	P	V
2452MHz		7356	38.59	-35.41	74	38.94	37.33	12.83	50.51	100	0	P	V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11n HT40 (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		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11n HT40 LF		30.27	25.14	-14.86	40	29.98	25.7	1.29	31.83	211	162	P	H
		162.03	21.5	-22	43.5	34.58	16.7	2	31.78	-	-	P	H
		216.84	22.67	-23.33	46	36.15	16.2	2.1	31.78	-	-	P	H
		682.9	29.07	-16.93	46	30.64	26.53	3.94	32.04	-	-	P	H
		794.9	30.52	-15.48	46	29.95	28.24	4.26	31.93	-	-	P	H
		974.8	33.97	-20.03	54	29.57	30.55	4.69	30.84	-	-	P	H
													H
													H
													H
													H
													H
													H
		32.16	35.55	-4.45	40	41.43	24.66	1.29	31.83	125	255	P	V
		41.34	34.68	-5.32	40	46.03	19.18	1.29	31.82	-	-	P	V
		122.88	21.59	-21.91	43.5	33.8	17.79	1.78	31.78	-	-	P	V
		538	26.67	-19.33	46	30.6	24.64	3.38	31.95	-	-	P	V
		827.1	31.66	-14.34	46	30.43	28.63	4.39	31.79	-	-	P	V
		948.9	34.27	-11.73	46	30.05	30.57	4.69	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	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

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

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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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

Appendix C. Radiated Spurious Emission Plots

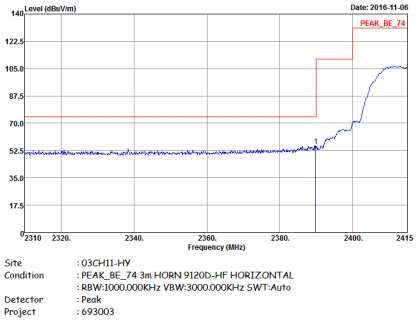
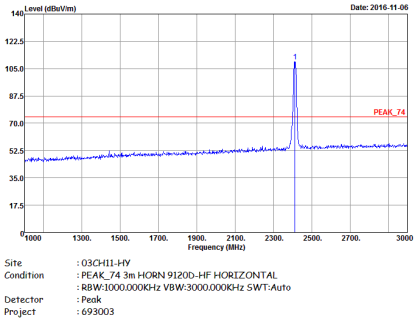
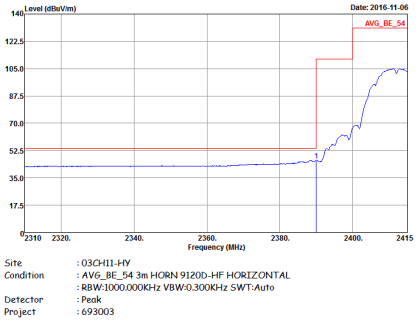
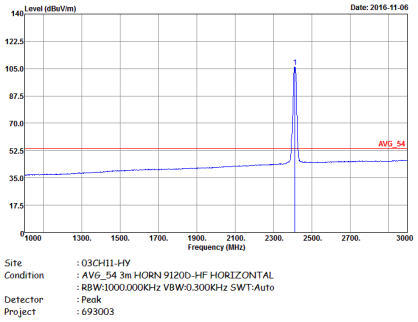
Test Engineer :	J.C. Liang and Jacky Hung	**Temperature :**	20~23°C
		Relative Humidity :	58~63%

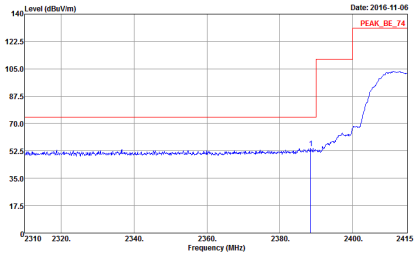
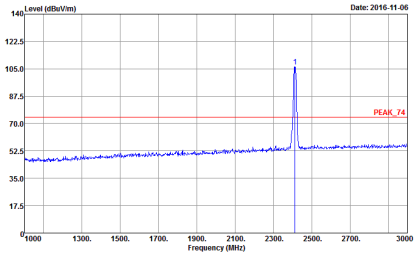
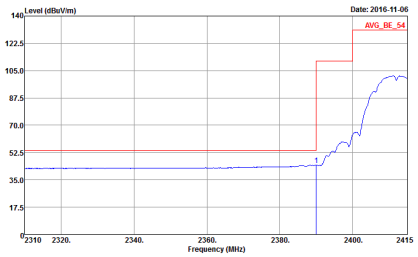
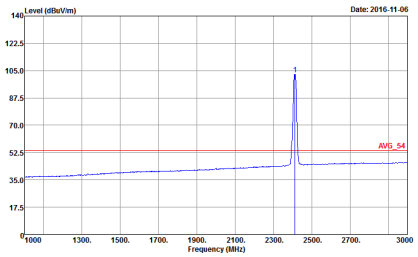
Note symbol

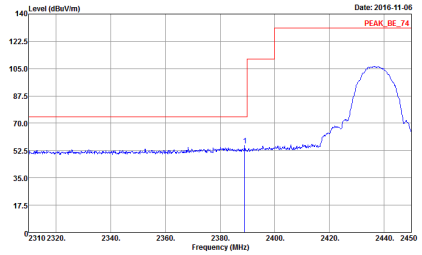
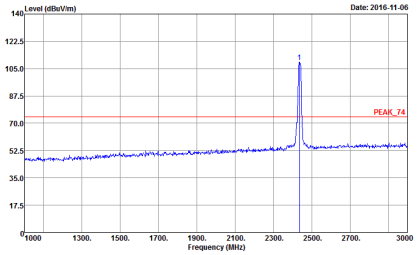
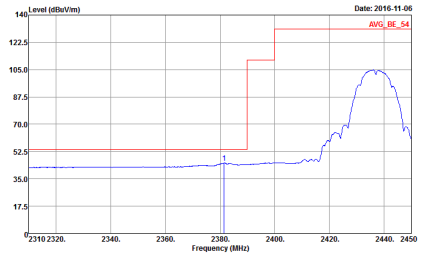
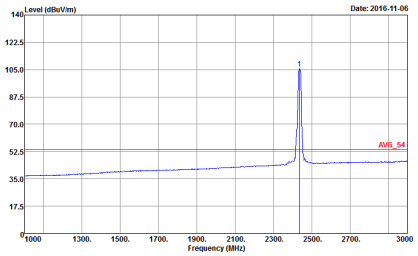
-L	**Low channel location**
-R	**High channel location**

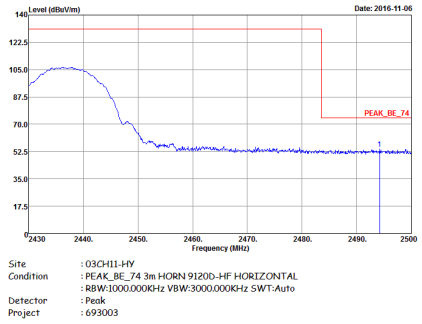
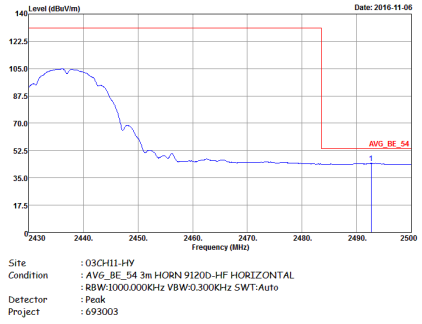
2.4GHz 2400~2483.5MHz

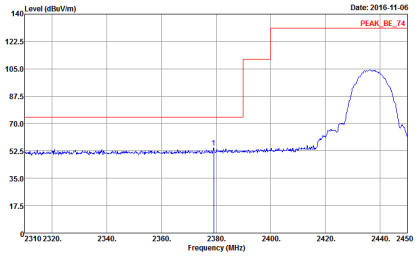
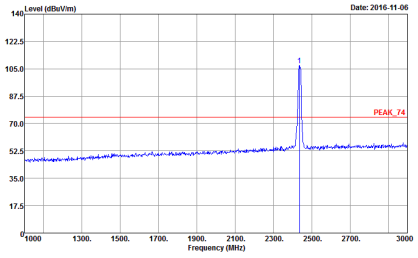
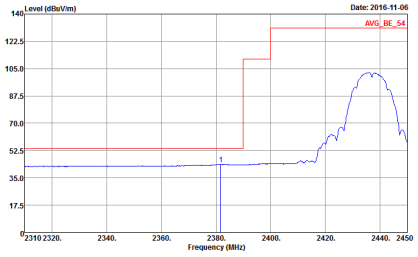
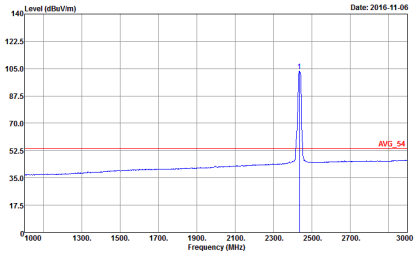
WIFI 802.11b (Band Edge @ 3m)

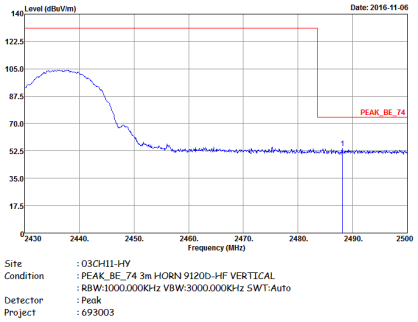
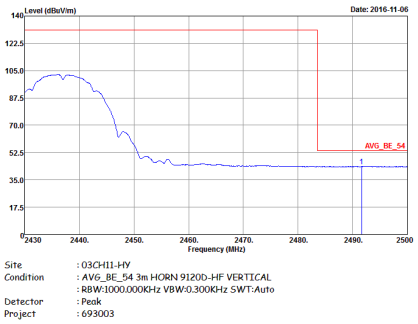
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak		
Avg.		

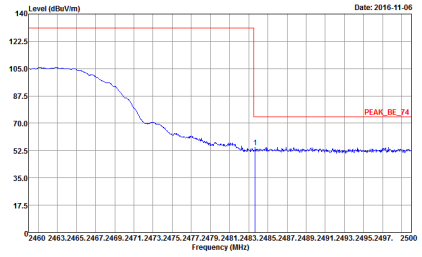
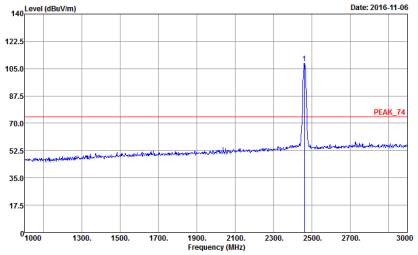
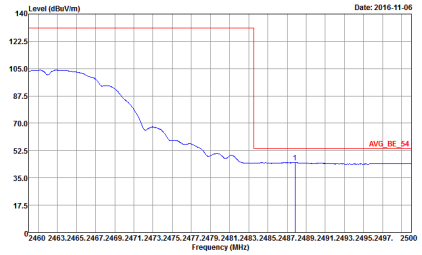
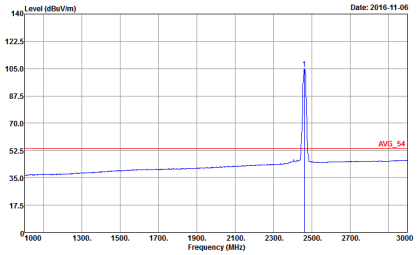
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 693003

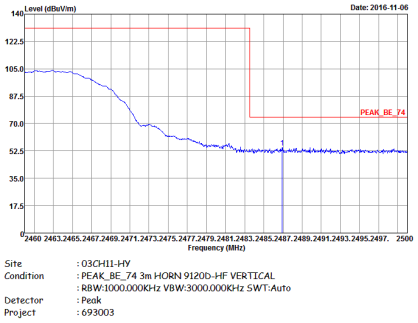
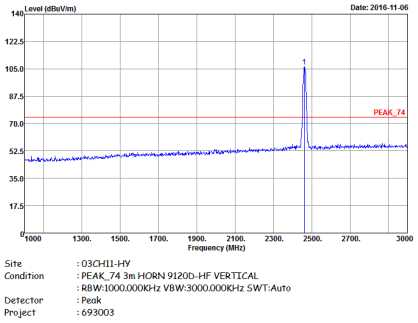
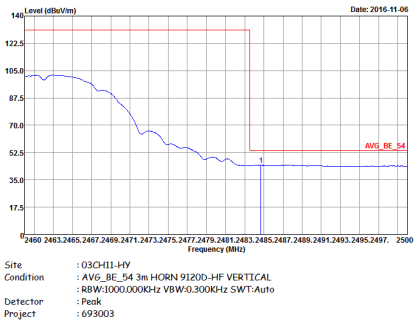
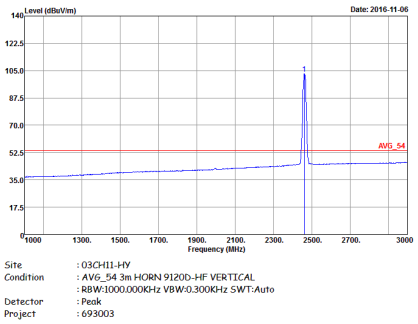
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 693003

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 693003	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 693003

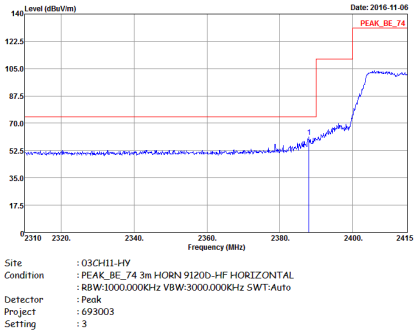
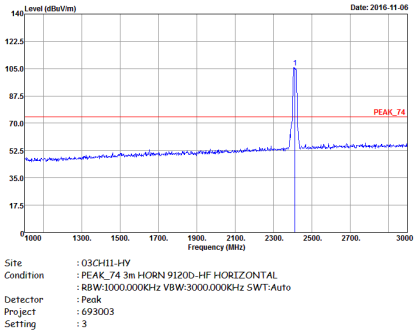
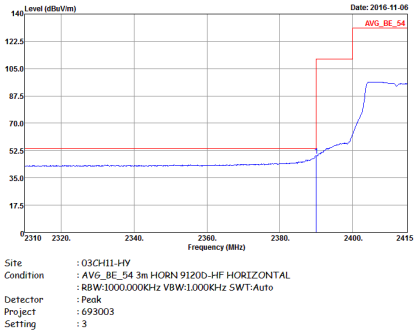
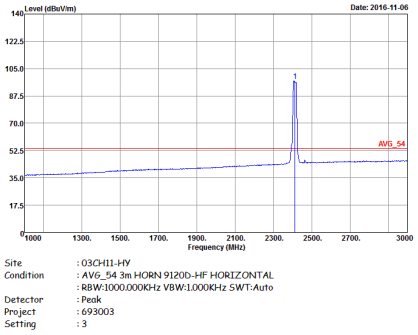
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

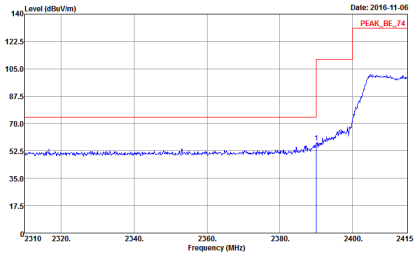
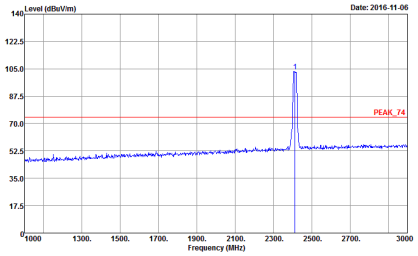
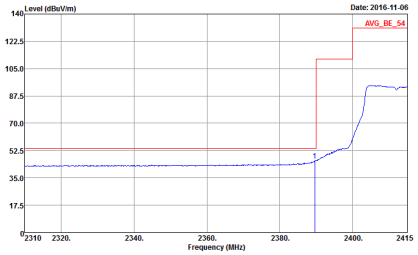
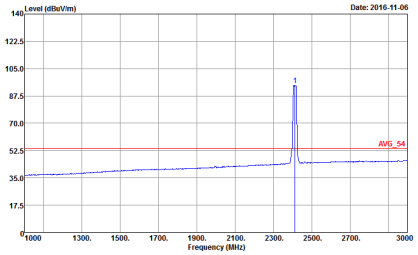
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 693003

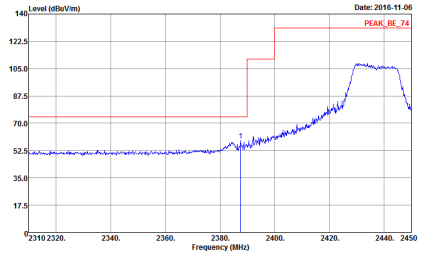
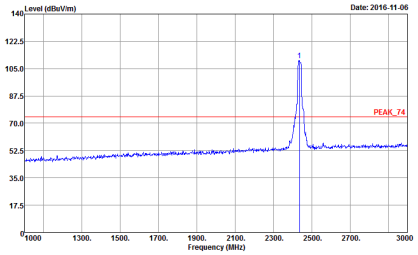
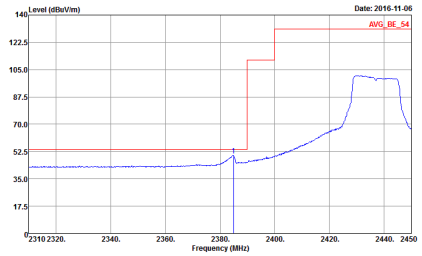
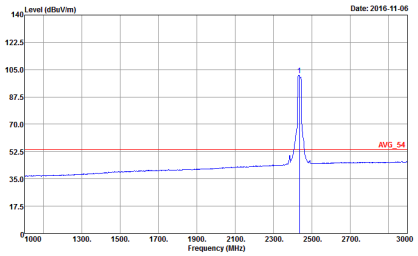
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:0.300KHz SWT:Auto Detector : Peak Project : 693003

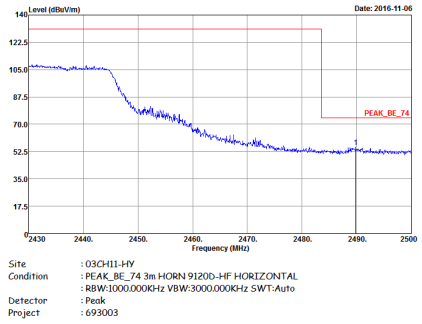
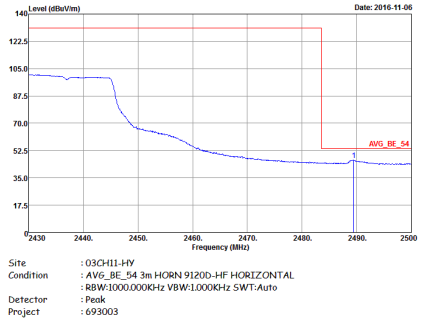
2.4GHz 2400~2483.5MHz

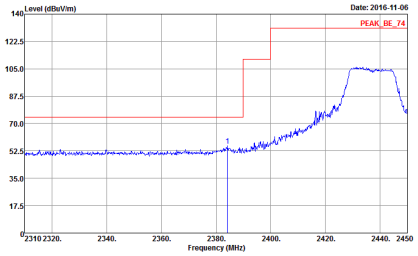
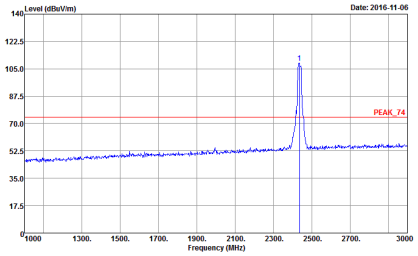
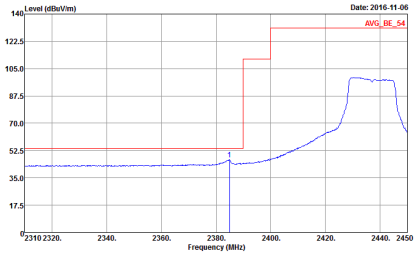
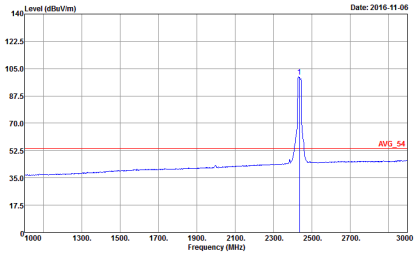
WIFI 802.11g (Band Edge @ 3m)

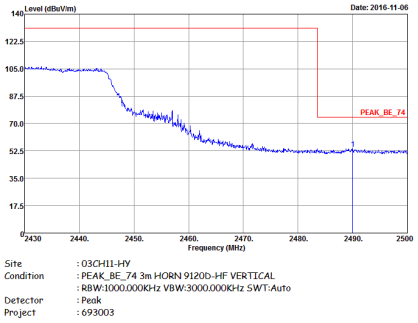
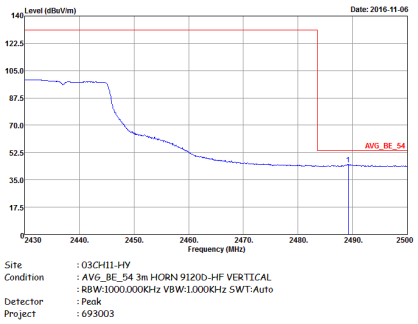
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3

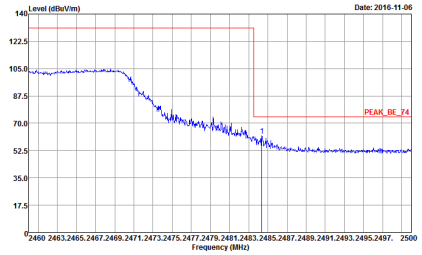
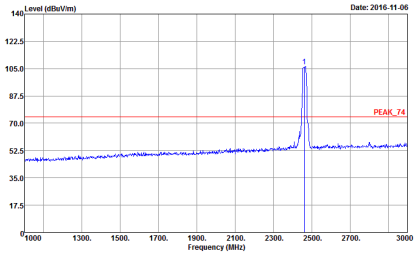
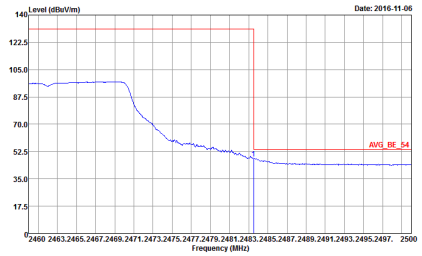
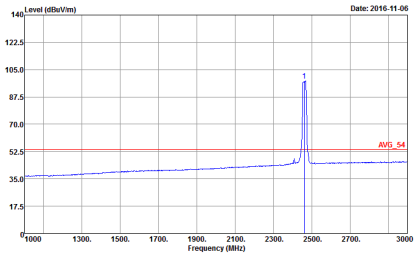
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3

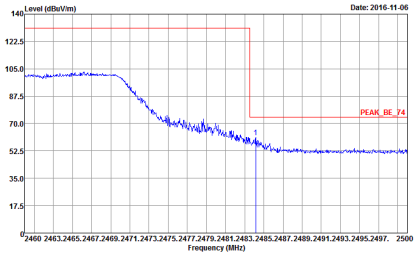
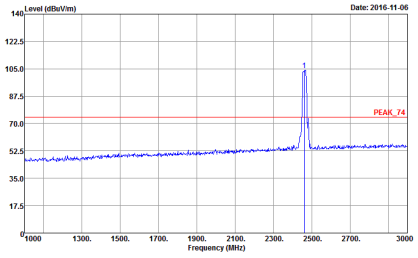
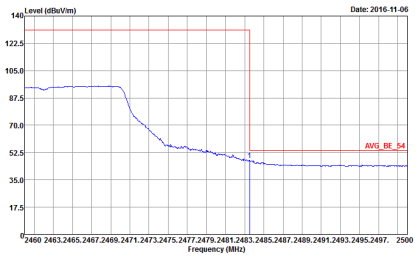
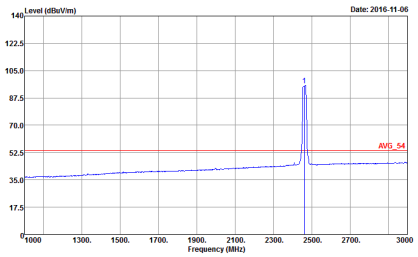
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 693003	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003

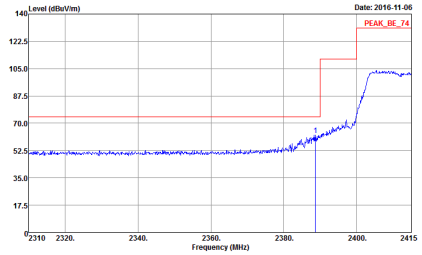
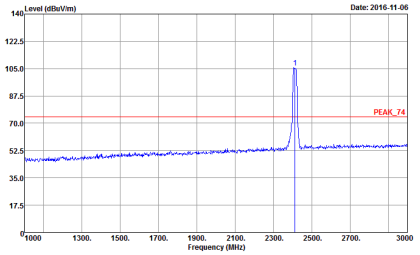
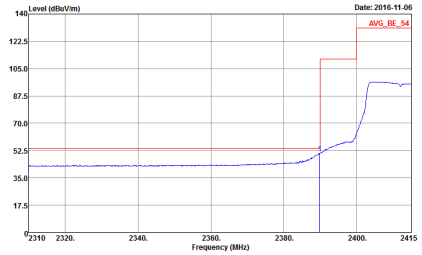
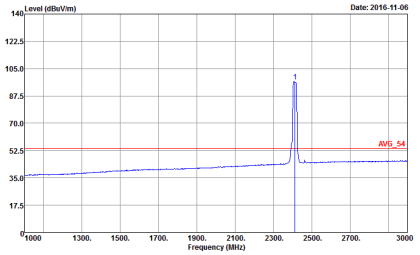
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

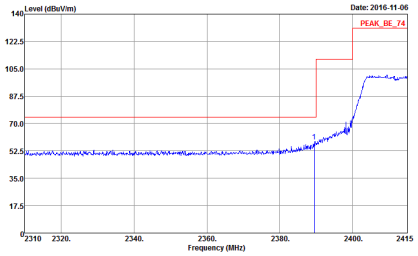
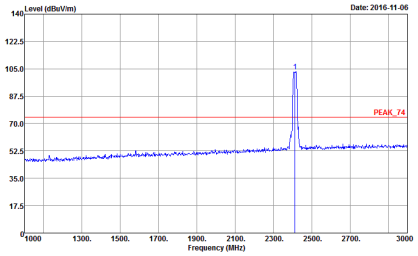
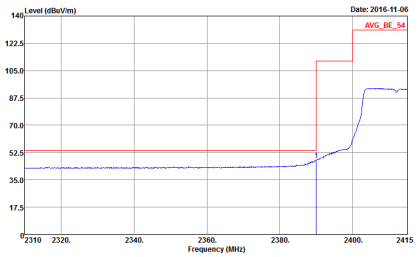
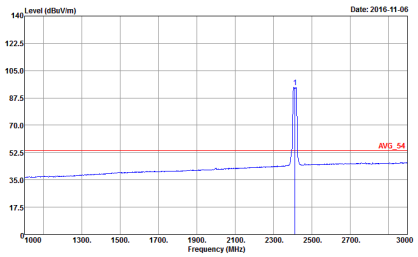
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5

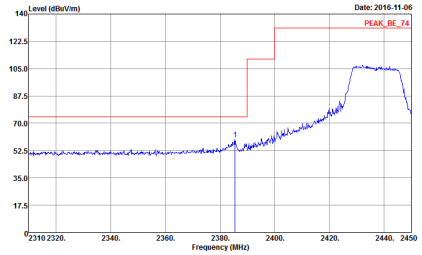
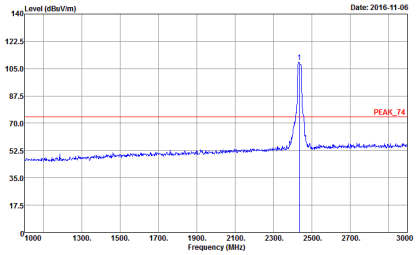
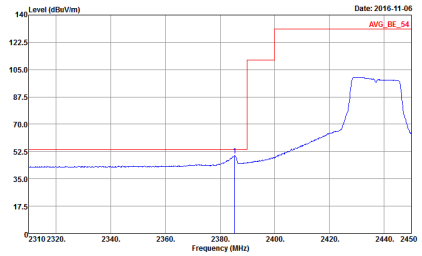
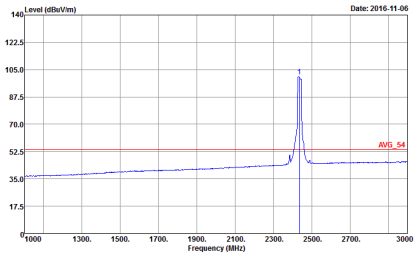
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5

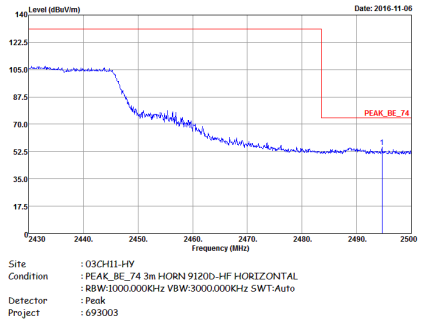
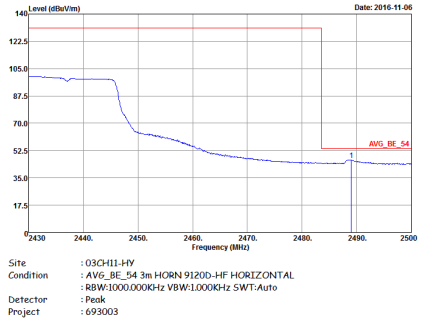
2.4GHz 2400~2483.5MHz

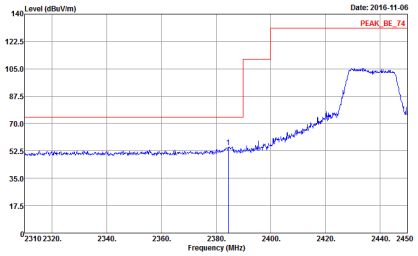
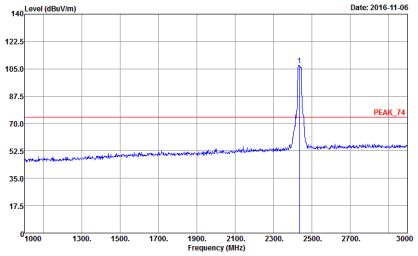
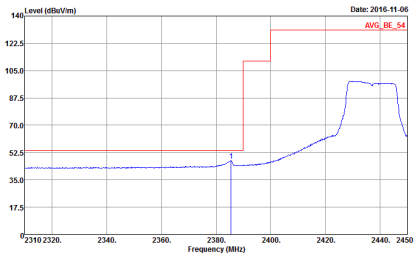
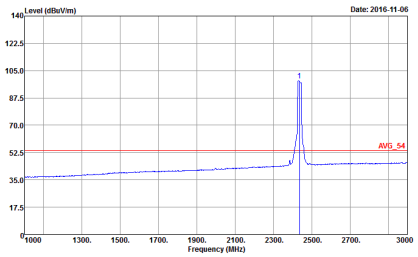
WIFI 802.11n HT20 (Band Edge @ 3m)

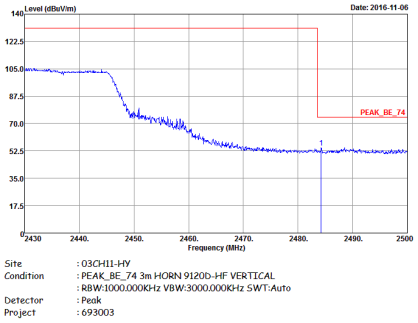
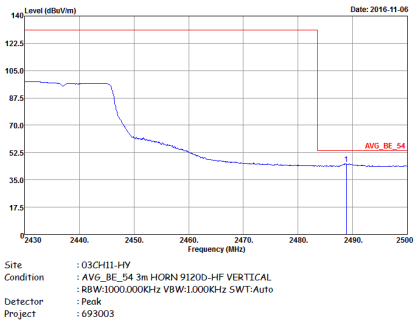
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3

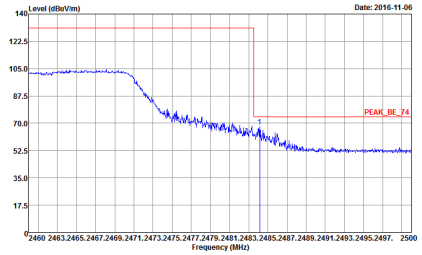
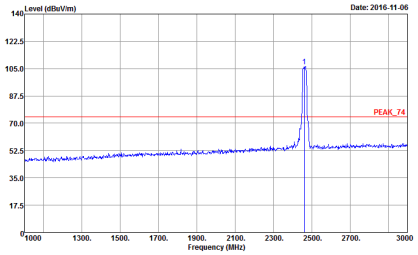
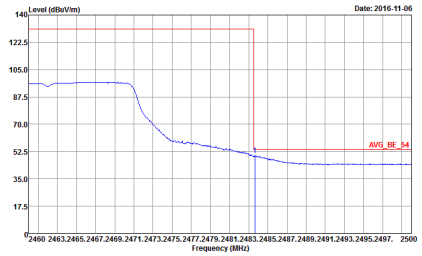
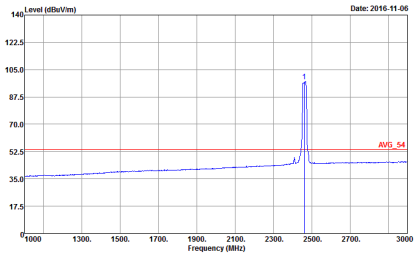
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 3

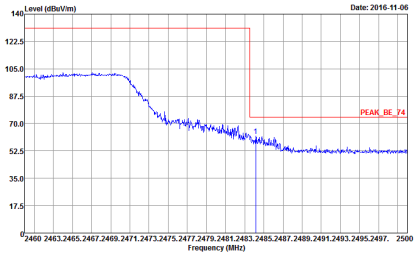
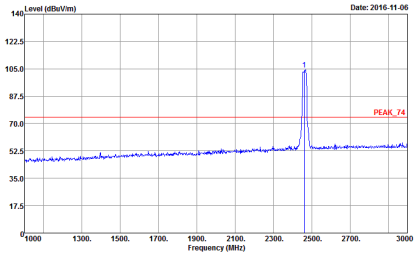
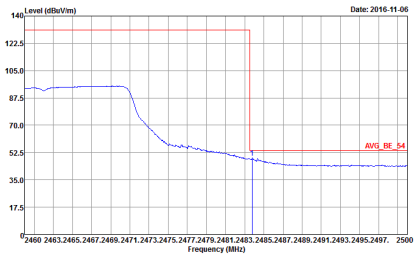
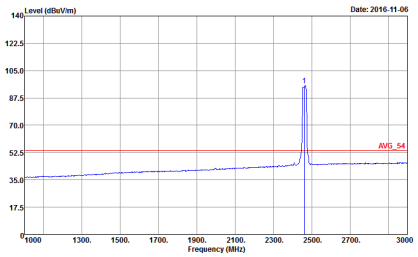
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003

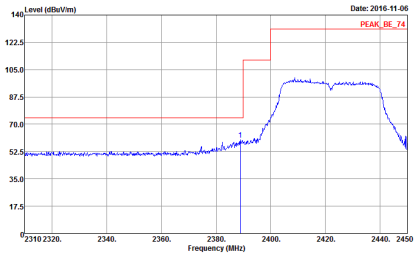
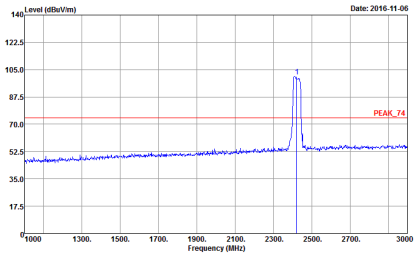
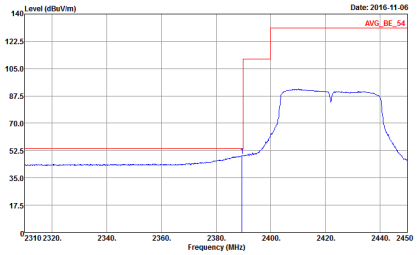
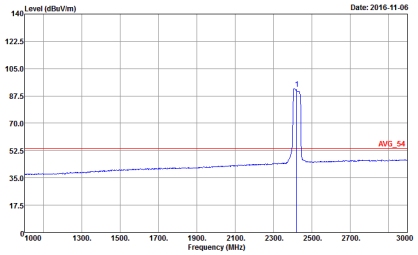
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak		Left Blank
Avg.		Left Blank

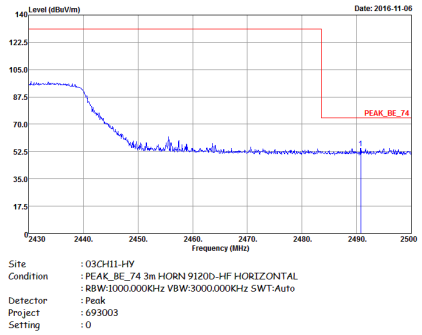
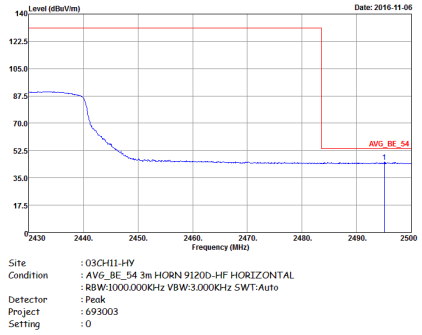
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5

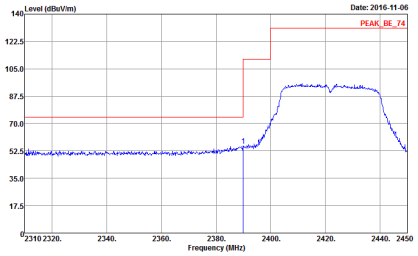
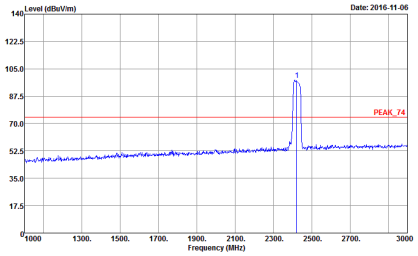
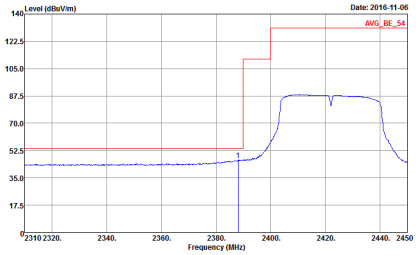
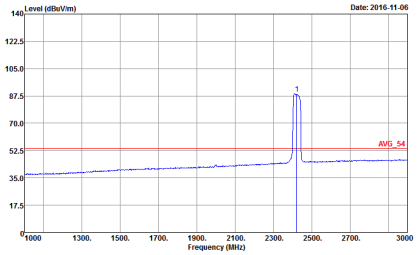
WIFI	2.4GHz 2400~2483.5MHz Fundamental @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:1.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 5

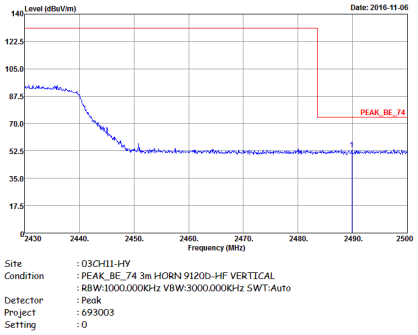
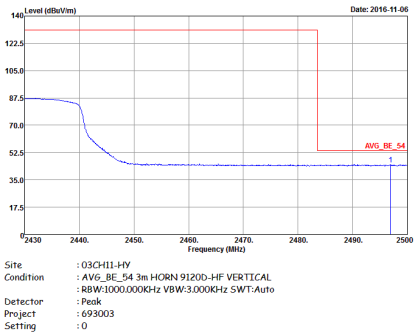
2.4GHz 2400~2483.5MHz

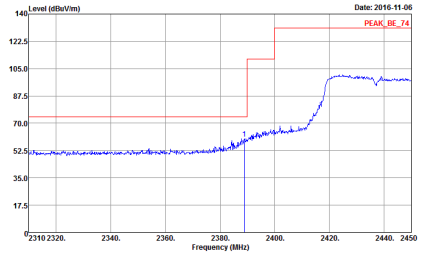
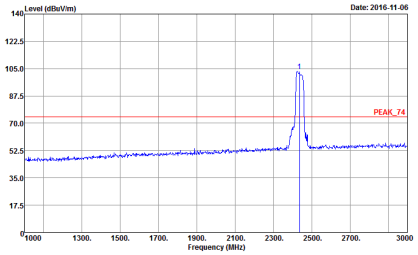
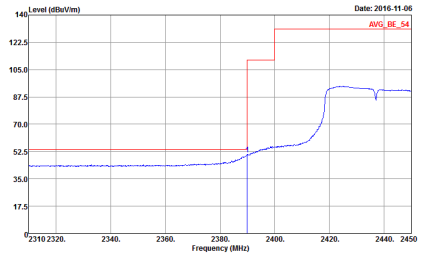
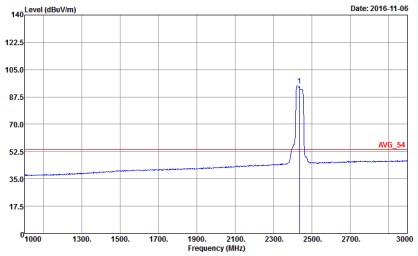
WIFI 802.11n HT40 (Band Edge @ 3m)

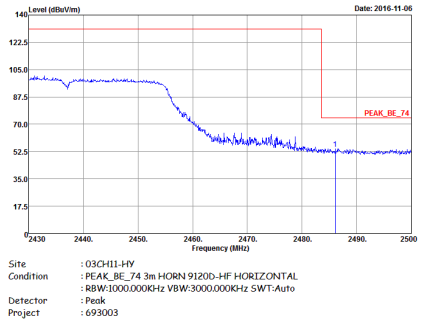
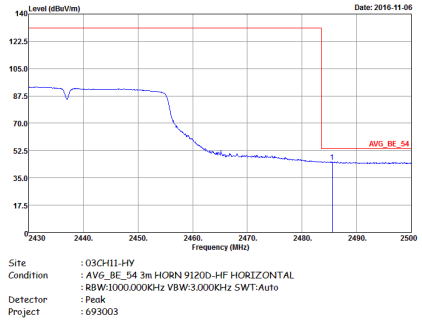
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0

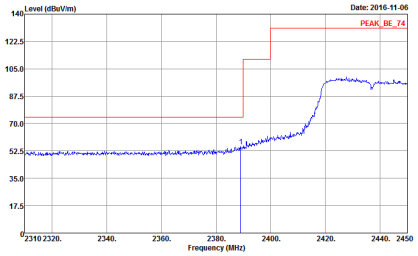
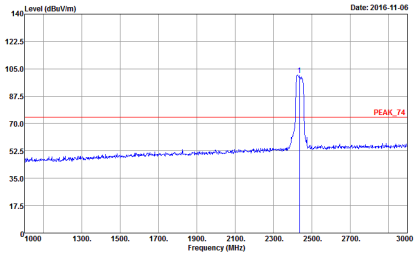
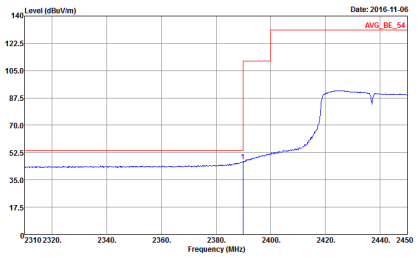
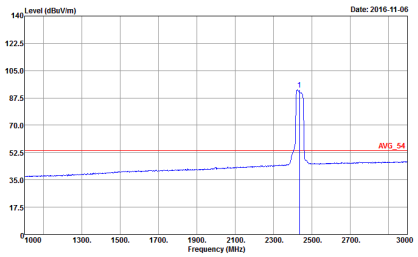
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0	Left Blank

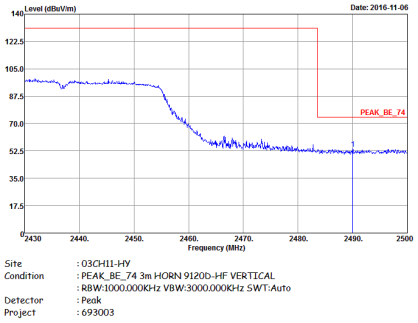
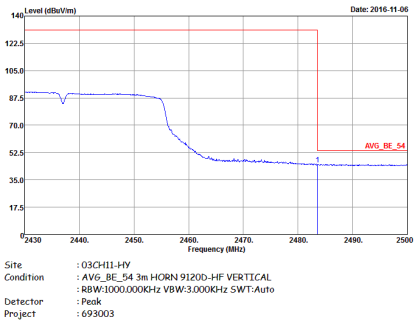
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0

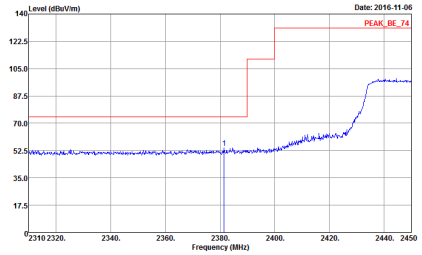
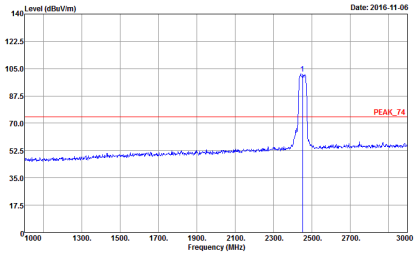
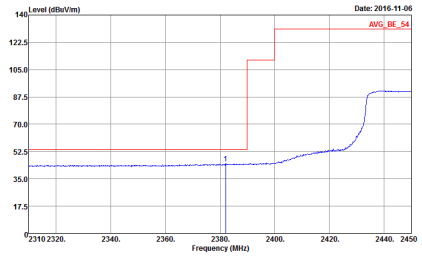
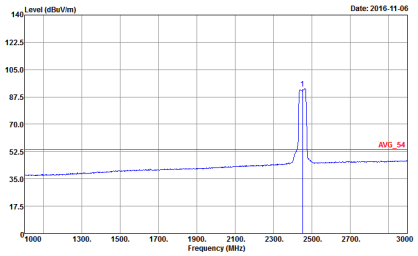
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003 Setting : 0	Left blank

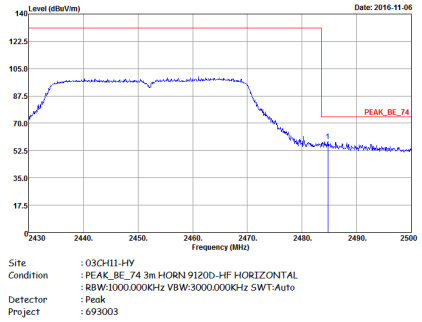
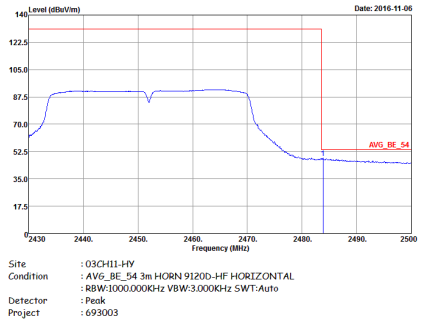
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003

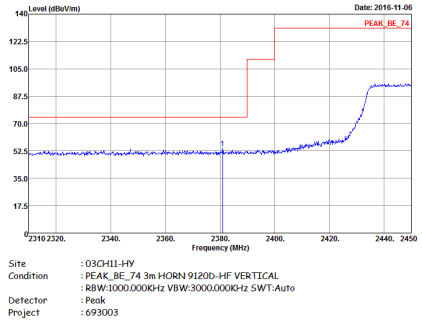
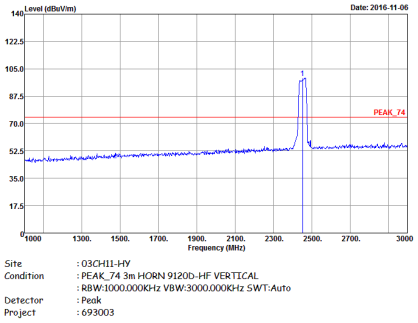
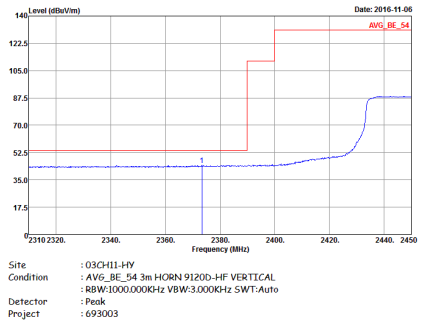
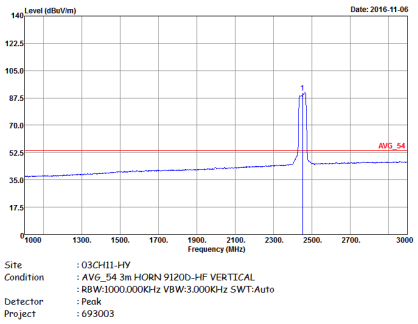
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003	Left blank

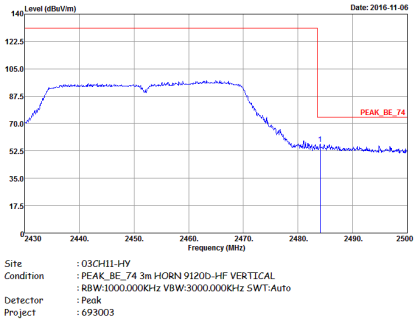
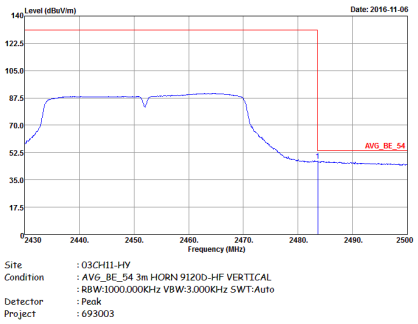
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003

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 : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003

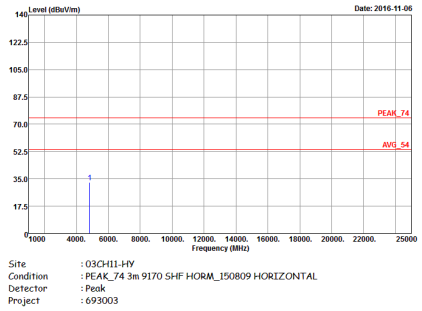
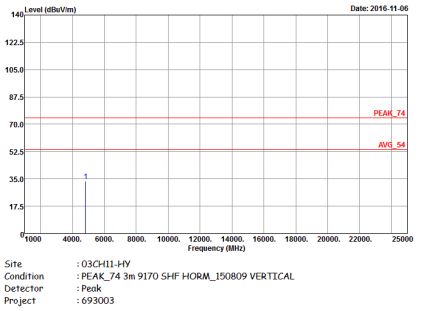
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak		Left blank
Avg.		Left blank

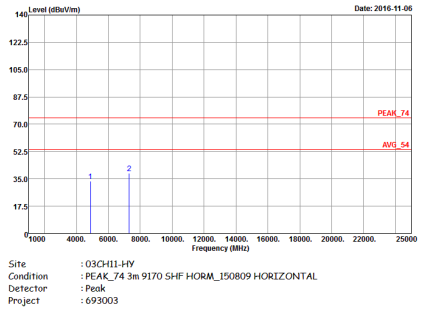
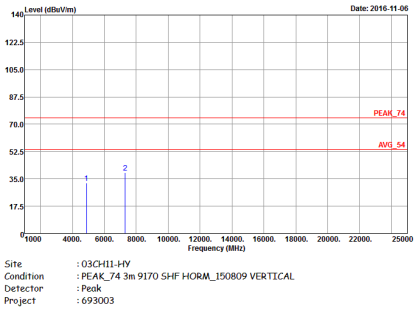
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 693003
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL : RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak Project : 693003

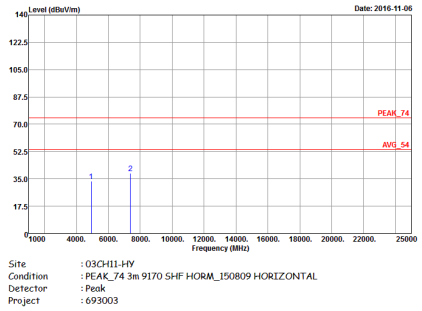
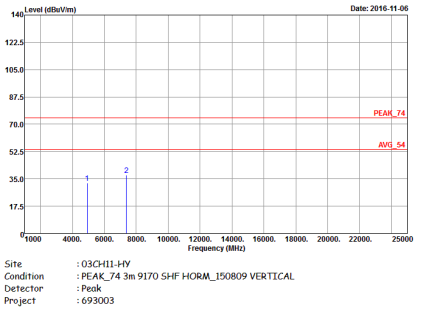
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Vertical	Fundamental
Peak		Left blank
Avg.		Left blank

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

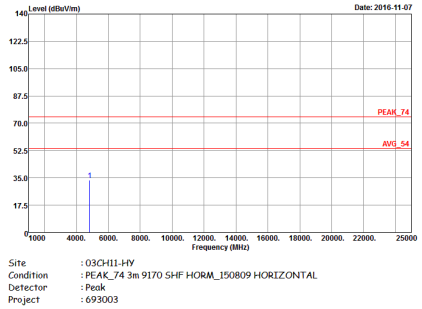
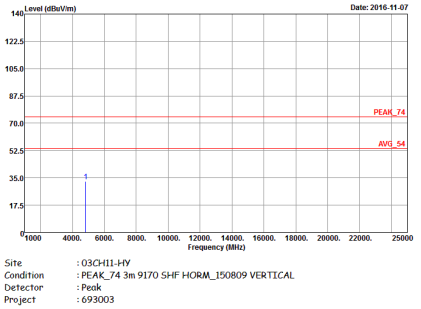
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

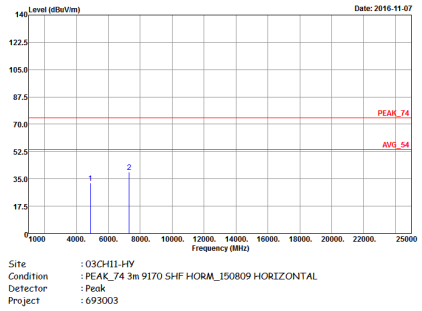
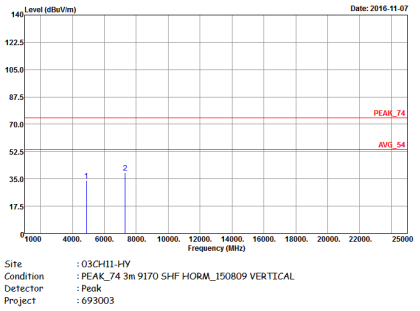
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

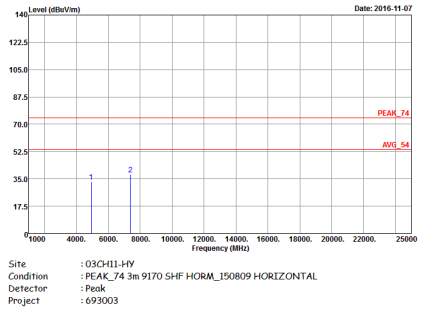
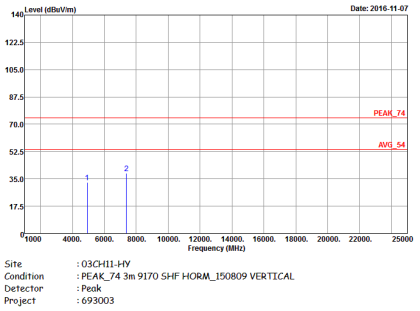
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

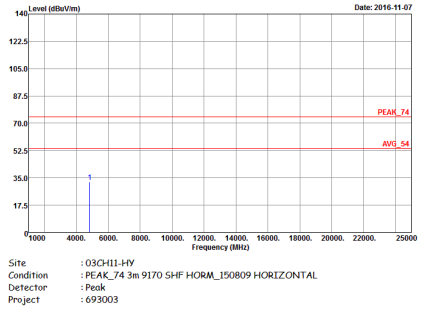
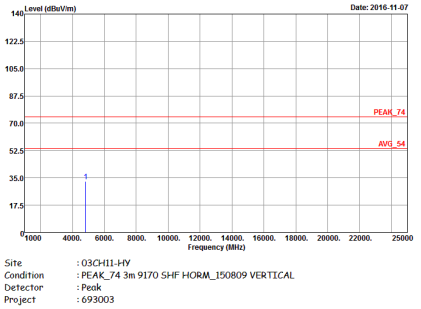
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

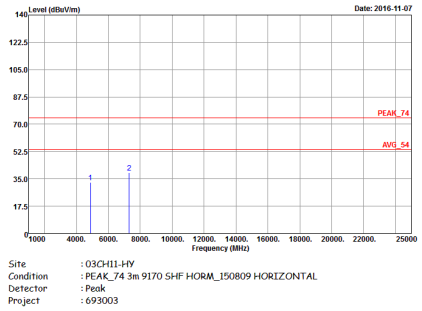
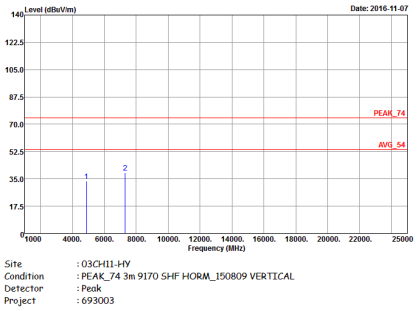
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

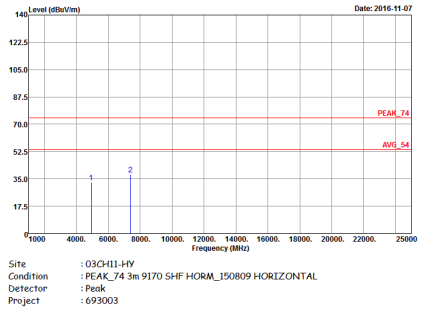
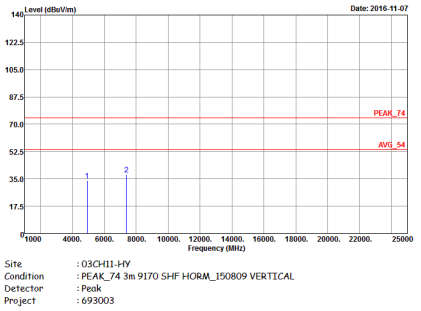
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

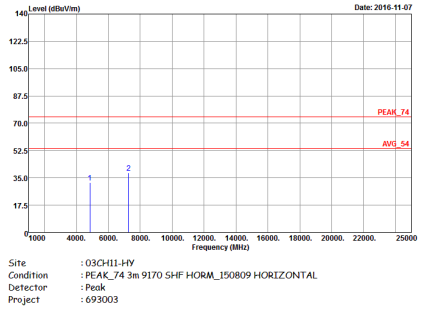
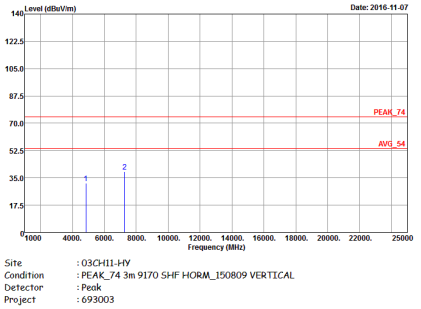
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.		

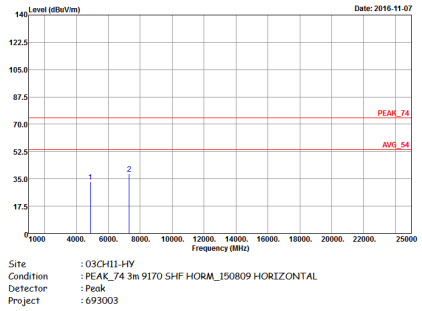
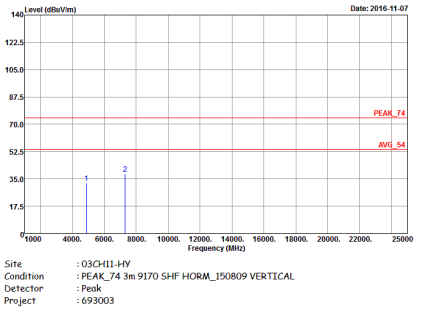
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

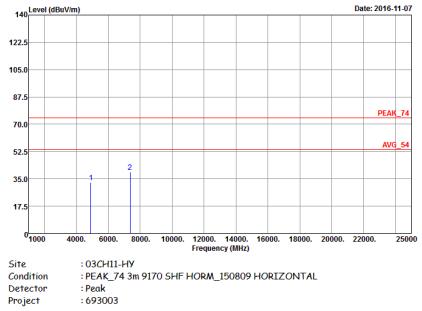
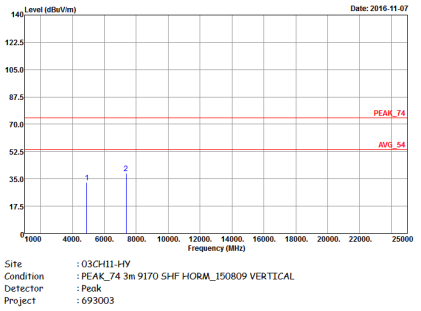
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.		

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

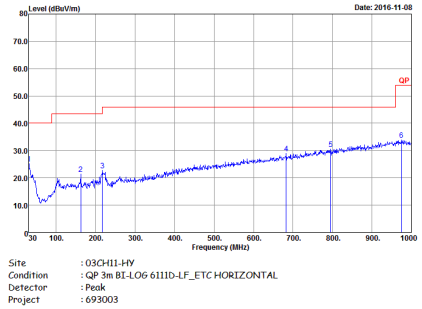
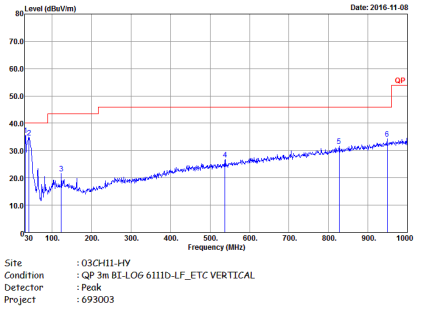
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.		

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
Peak Avg.		

Emission below 1GHz

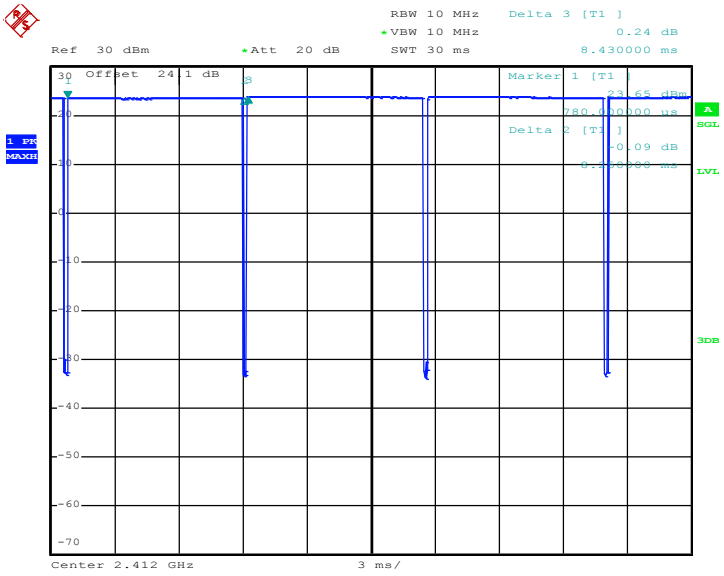
2.4GHz WIFI 802.11n HT40 (LF)

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11n HT40 LF	
1	Horizontal	Vertical
QP / Peak		

Appendix D. Duty Cycle Plots

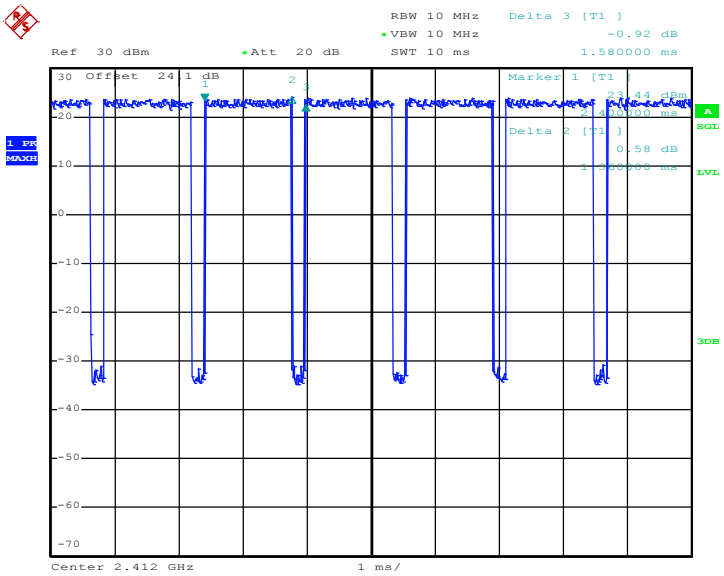
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
802.11b	97.865	8250	0.12	300Hz
802.11g	86.076	1360	0.74	1kHz
802.11n HT20	86.486	1280	0.78	1kHz
802.11n HT40	75.000	630	1.59	3kHz

802.11b



Date: 13.OCT.2016 02:08:55

802.11g



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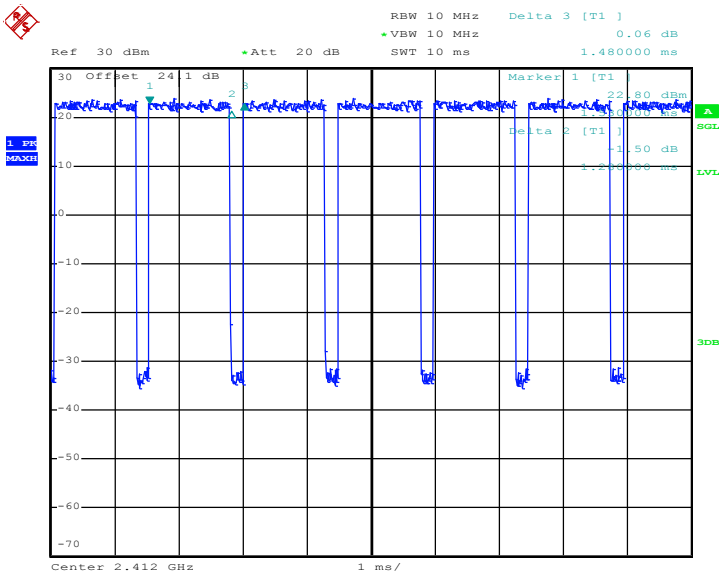
802.11n HT20



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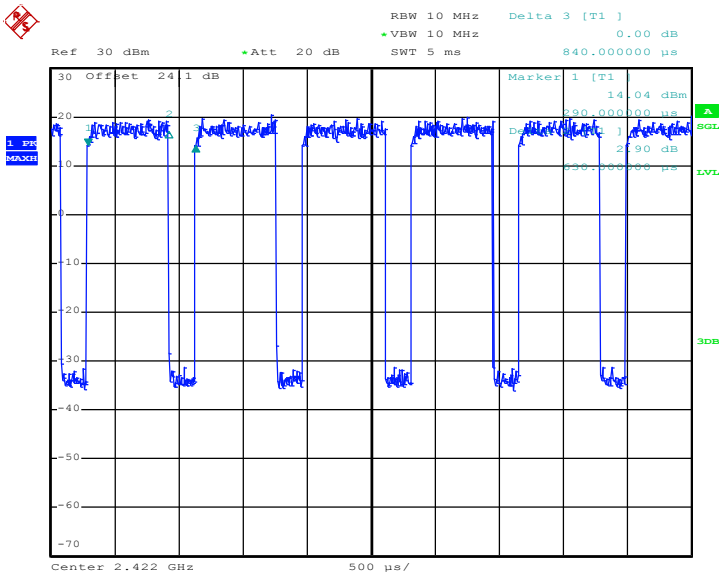
802.11n HT40



Date: 13.OCT.2016 02:17:06