



FCC RF Test Report

APPLICANT : ASUSTeK COMPUTER INC.
EQUIPMENT : ASUS Phone
BRAND NAME : ASUS
MODEL NAME : ASUS_X008DC
FCC ID : MSQX008DC
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Sep. 01, 2016 and testing was completed on Sep. 23, 2016. We, SPORTON INTERNATIONAL (KUNSHAN) 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 (KUNSHAN) INC., the test report shall not be reproduced except in full.

Prepared by: James Huang / Manager

Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL (KUNSHAN) INC.
No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	RSS-247 5.2(1)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	RSS-Gen 6.6	99% Bandwidth	-	Pass	-
3.2	15.247(b)	RSS-247 A5.4(4)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	RSS-247 5.2(2)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	RSS-247 5.5	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
			Conducted Spurious Emission		Pass	-
3.5	15.247(d)	RSS-247 5.5	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 4.73 dB at 4824.000 MHz
3.6	15.207	RSS-GEN 8.8	AC Conducted Emission	15.207(a)	Pass	Under limit 6.40 dB at 0.152 MHz
3.7	15.203 & 15.247(b)	N/A	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

ASUSTeK COMPUTER INC.
4F, No. 150, LI-TE RD., PEITOU, TAIPEI, TAIWAN

1.2 Manufacturer

ASUSTeK COMPUTER INC.
4F, No. 150, LI-TE RD., PEITOU, TAIPEI, TAIWAN

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	ASUS Phone
Brand Name	ASUS
Model Name	ASUS_X008DC
FCC ID	MSQX008DC
EUT supports Radios application	GSM/GPRS/EGPRS/WCDMA/HSPA/ HSPA+(16QAM uplink is not supported)/LTE WLAN2.4GHz 802.11b/g/n HT20/HT40 Bluetooth v3.0+EDR Bluetooth v4.0 LE
IMEI Code	Conducted: 353860080000235/353860080000243 Conduction: 353860080000094/353860080000102 Radiation: 353146080024569/35146080021289
HW Version	WKCMA1A1-1
SW Version	MRA58K.US_Phone-13.1.4.1-20160819
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 : 16.66 dBm (0.0463 W) 802.11g : 22.55 dBm (0.1799 W) 802.11n HT20 : 22.56 dBm (0.1803 W) 802.11n HT40 : 22.91 dBm (0.1954 W)
99% Occupied Bandwidth	802.11b : 12.39MHz 802.11g : 17.58MHz 802.11n HT20 : 18.28MHz 802.11n HT40 : 36.36MHz
Antenna Type / Gain	PIFA Antenna with gain -1.00 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 (KUNSHAN) INC.	
Test Site Location	No. 3-2, PingXiang Road, Kunshan, Jiangsu Province, P. R. China TEL: +86-0512-5790-0158 FAX: +86-0512-5790-0958	
Test Site No.	Sporton Site No.	
	TH01-KS	CO01-KS

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-3273456 FAX: +886-3-3284978	
Test Site No.	Sporton Site No.	FCC/IC Registration No.
	03CH11-HY	TW1022/4086H

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
- ♦ IC RSS-247 Issue 1
- ♦ IC RSS-Gen Issue 4

Remark:

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



2 Test Configuration of Equipment Under Test

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

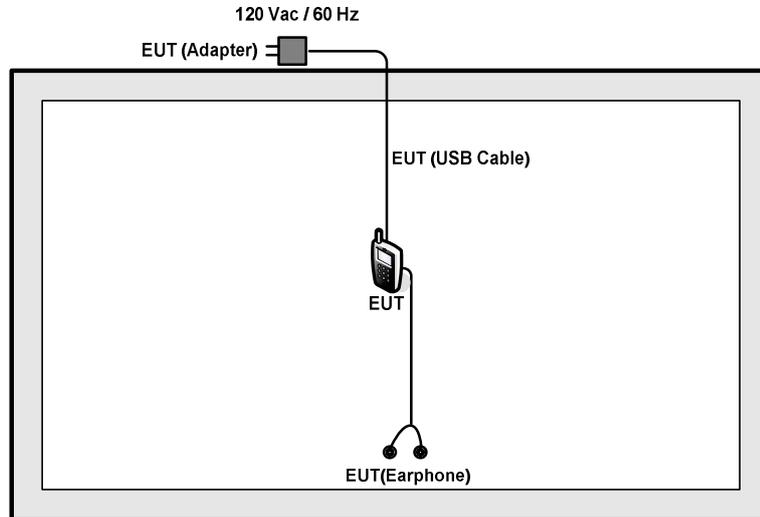
Final test mode of conducted test items and radiated spurious emissions are considering the modulation and worse data rates as below table.

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

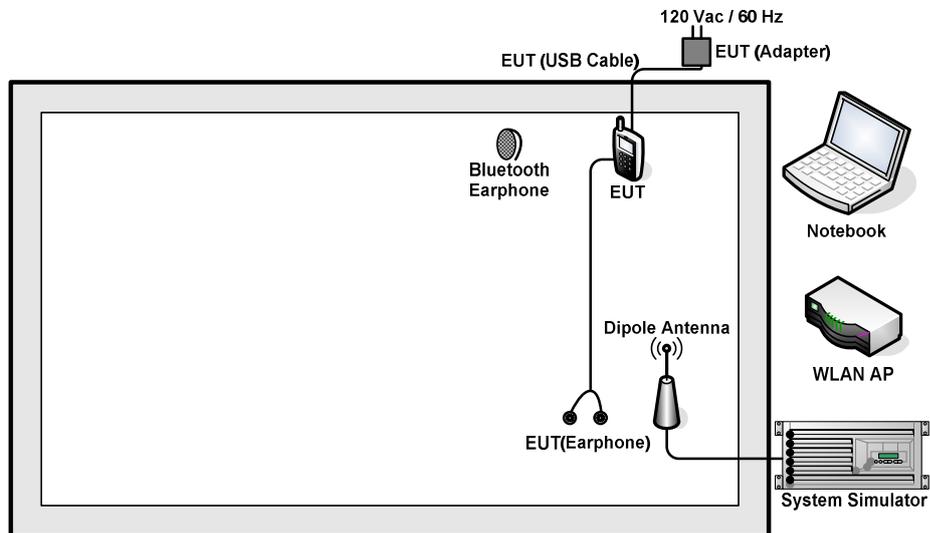
Test Cases	
AC Conducted Emission	Mode 1 : GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable 1(Charging from Adapter 1) Mode 2 : GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable 2(Charging from Adapter 2)
Remark: The worst case of conducted emission is mode 2; only the test data of it was reported.	

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.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	Linksys	WRT600N	Q87-WRT600NV11	N/A	Unshielded, 1.8 m
3.	Notebook	Lenovo	G480	N/A	N/A	Shielded cable DC O/P 1.8 m Unshielded AC I/P cable 1.2 m
4.	Bluetooth Earphone	Nokia	BH-106	QTLBH-106	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the Notebook under large package sizes transmission.

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 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.

Offset = RF cable loss.

Following shows an offset computation example with cable loss 5.8 dB.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)}. \\ &= 5.8 \text{ (dB)} \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

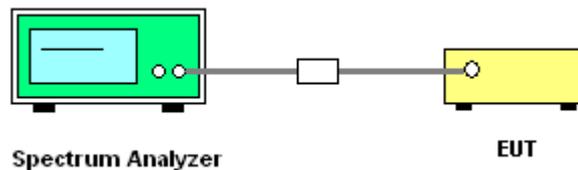
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance 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.

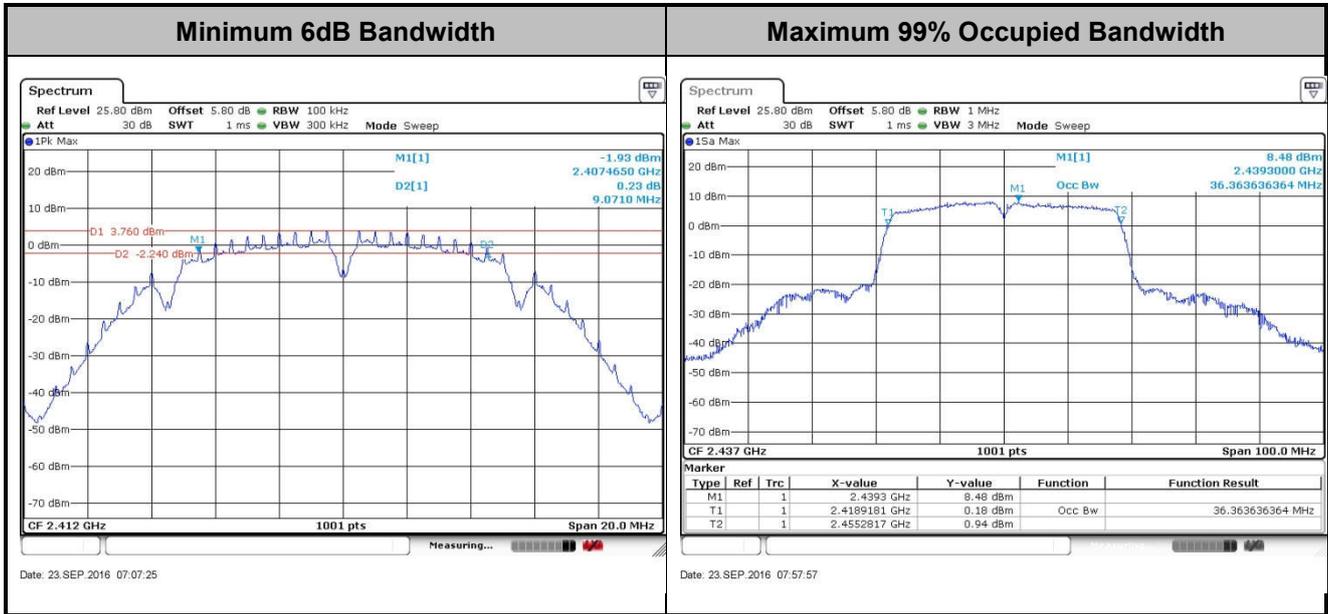
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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.

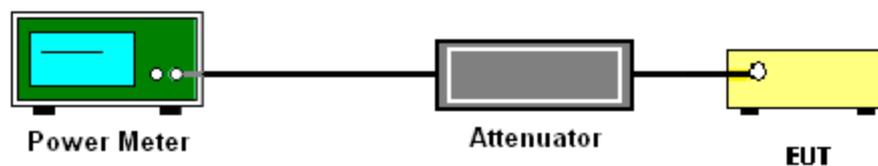
3.2.2 Measuring Instruments

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.
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.

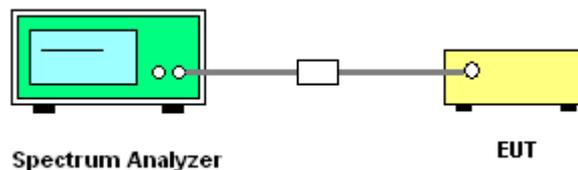
3.3.2 Measuring Instruments

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.

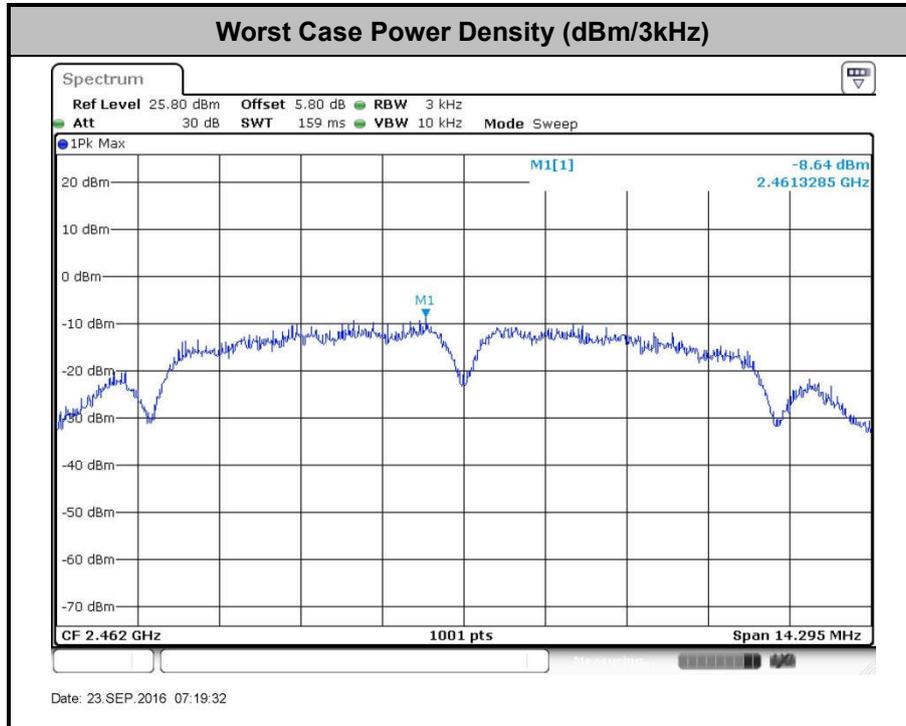
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



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).

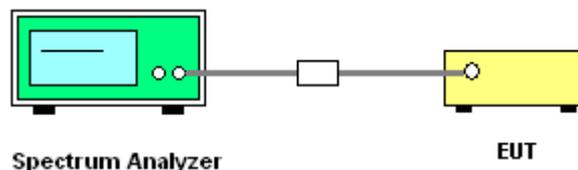
3.4.2 Measuring Instruments

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.

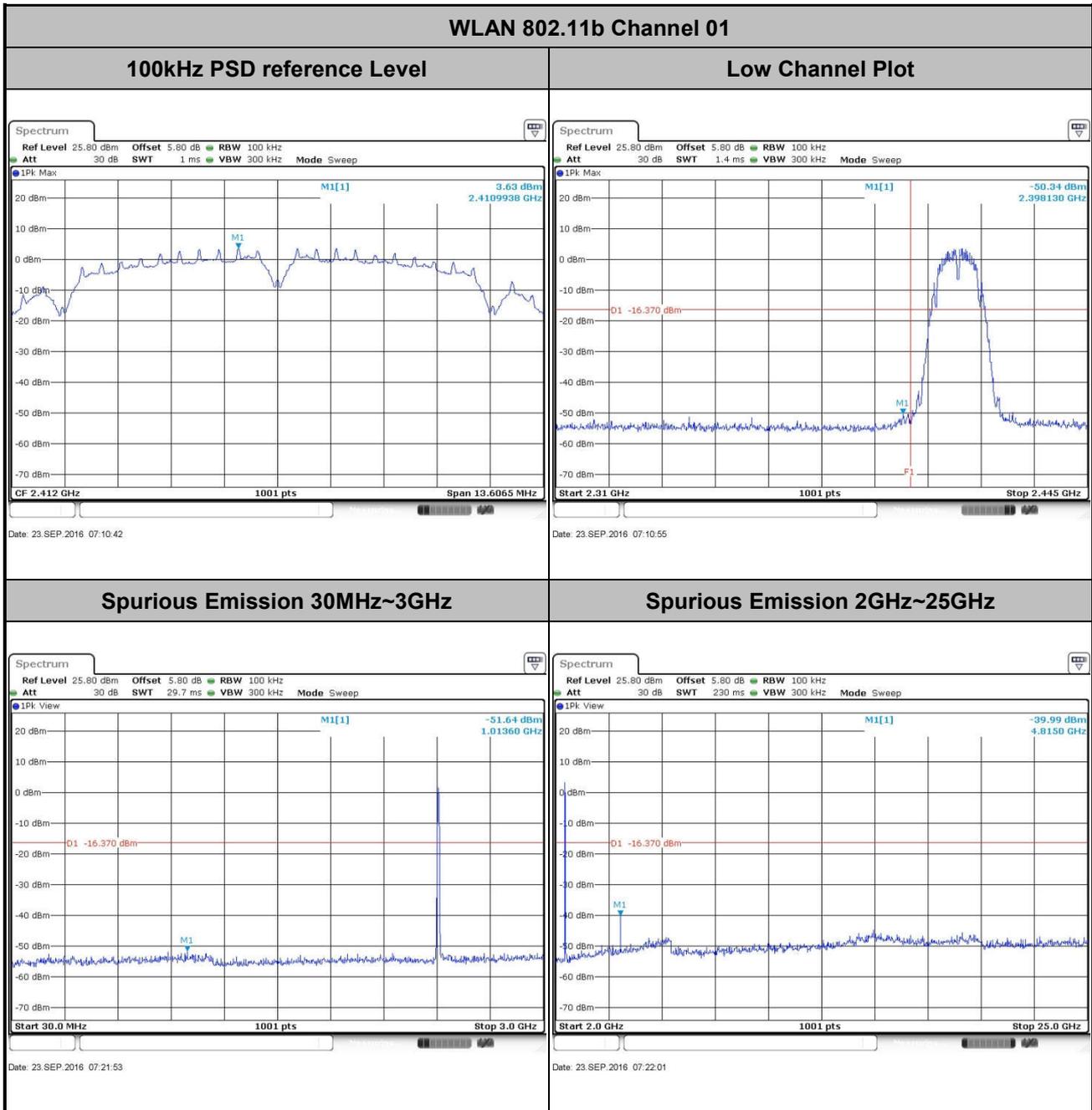
3.4.4 Test Setup





3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Mode :	802.11b	Temperature :	24~25°C
Test Band :	2.4GHz Low	Relative Humidity :	54~55%
Test Channel :	01	Test Engineer :	Ivan Zhang

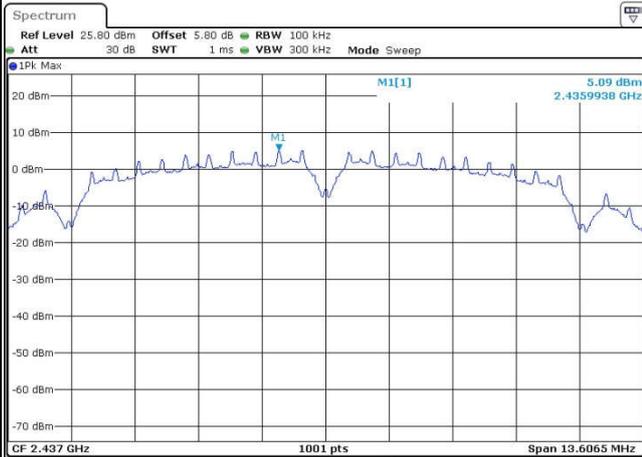




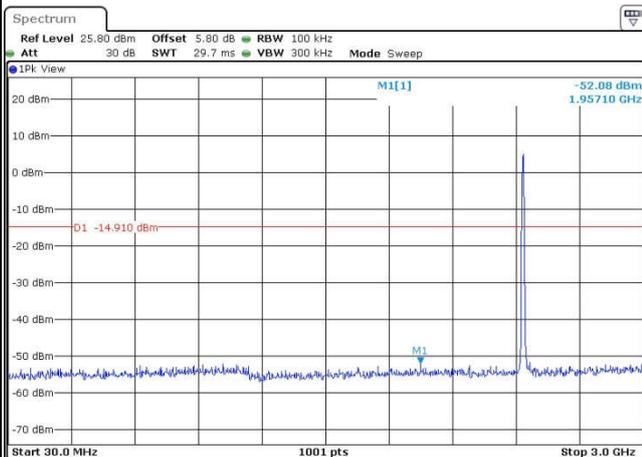
Test Mode :	802.11b	Temperature :	24~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	54~55%
Test Channel :	06	Test Engineer :	Ivan Zhang

WLAN 802.11b Channel 06

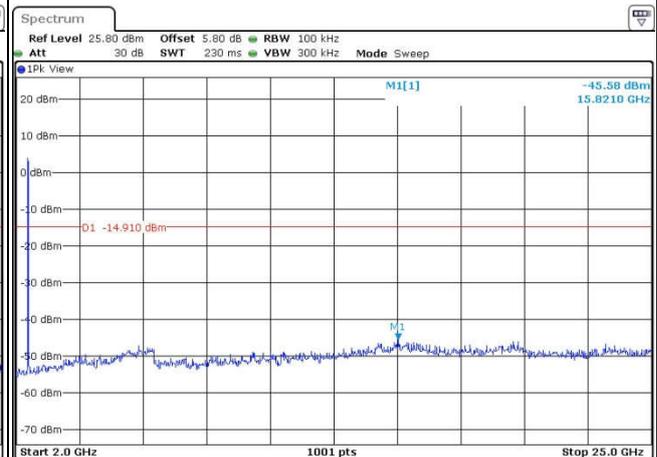
100kHz PSD reference Level



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

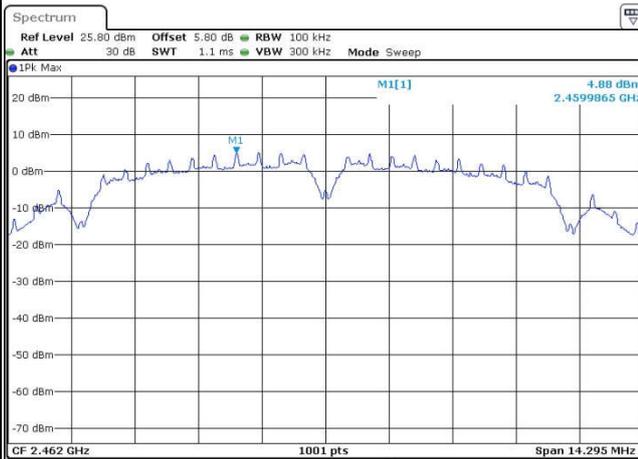




Test Mode :	802.11b	Temperature :	24~25°C
Test Band :	2.4GHz High	Relative Humidity :	54~55%
Test Channel :	11	Test Engineer :	Ivan Zhang

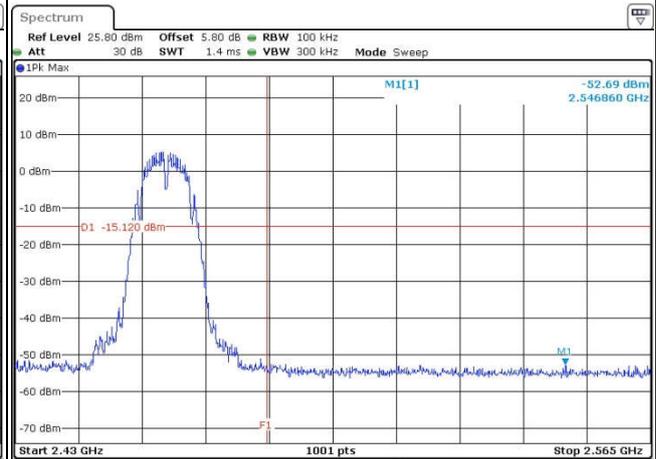
WLAN 802.11b Channel 11

100kHz PSD reference Level



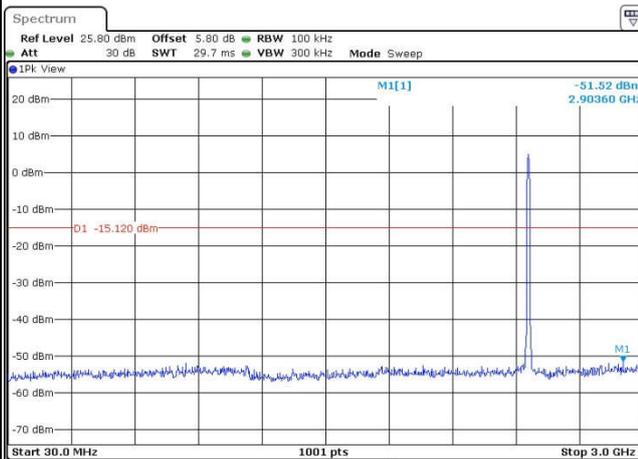
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High Channel Plot



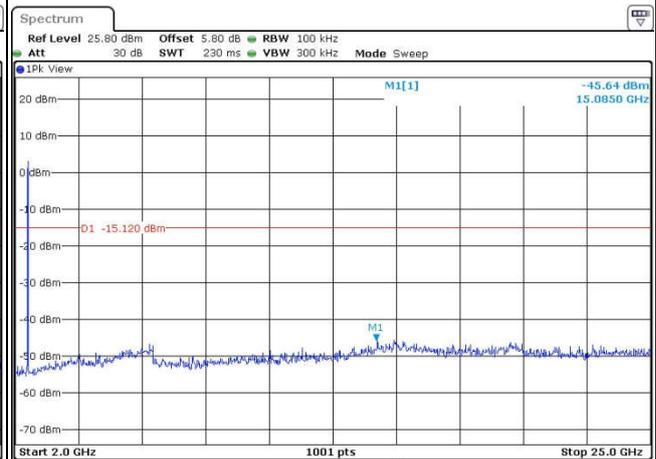
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Spurious Emission 30MHz~3GHz



Date: 23.SEP.2016 07:20:04

Spurious Emission 2GHz~25GHz



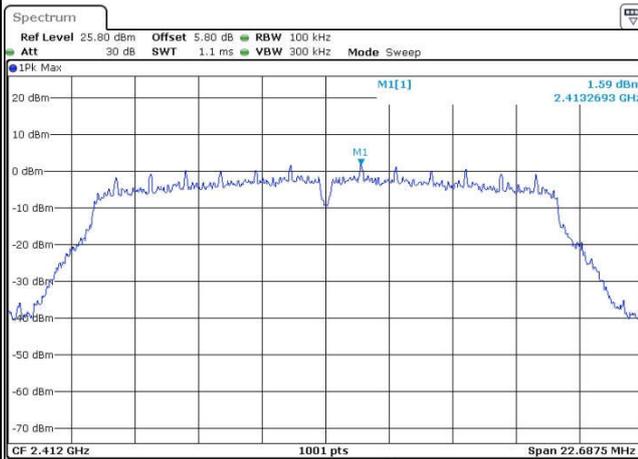
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Test Mode :	802.11g	Temperature :	24~25°C
Test Band :	2.4GHz Low	Relative Humidity :	54~55%
Test Channel :	01	Test Engineer :	Ivan Zhang

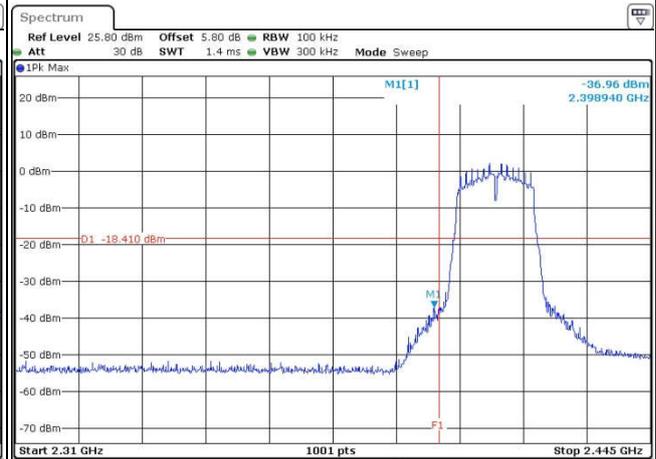
WLAN 802.11g Channel 01

100kHz PSD reference Level



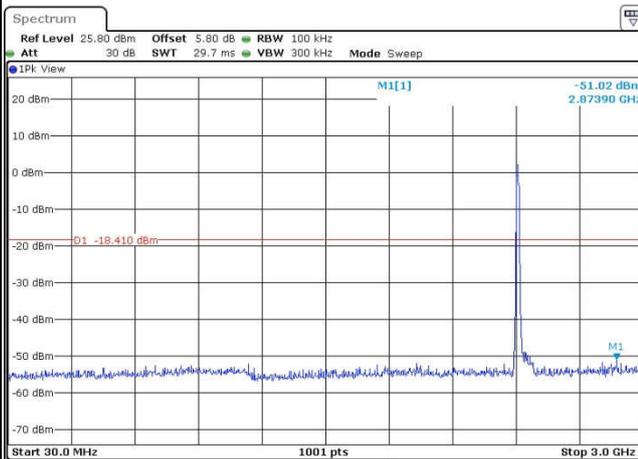
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Low Channel Plot



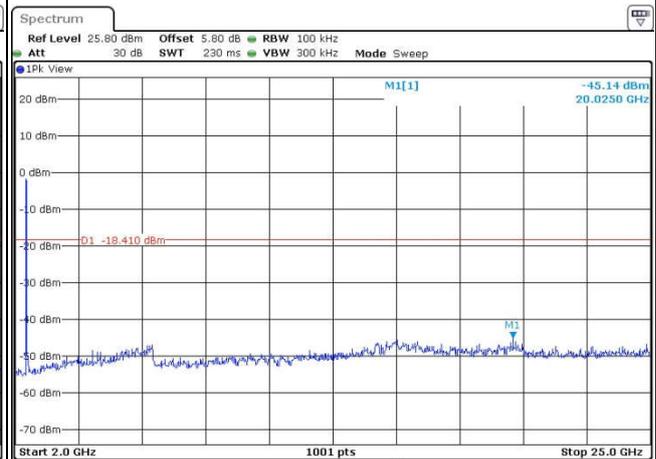
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Spurious Emission 30MHz~3GHz



Date: 23.SEP.2016 07:25:28

Spurious Emission 2GHz~25GHz



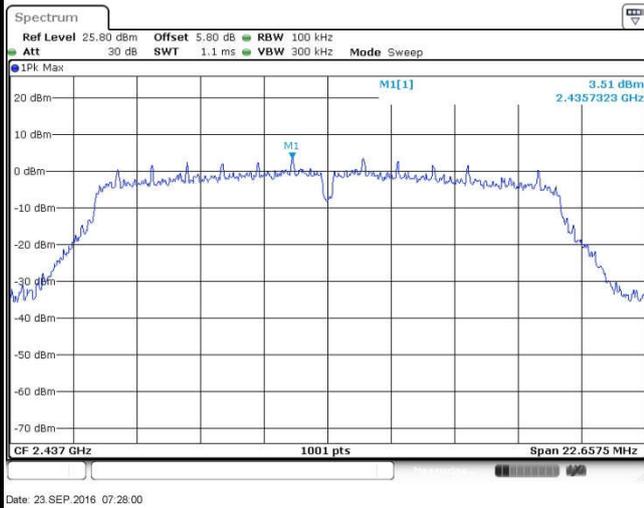
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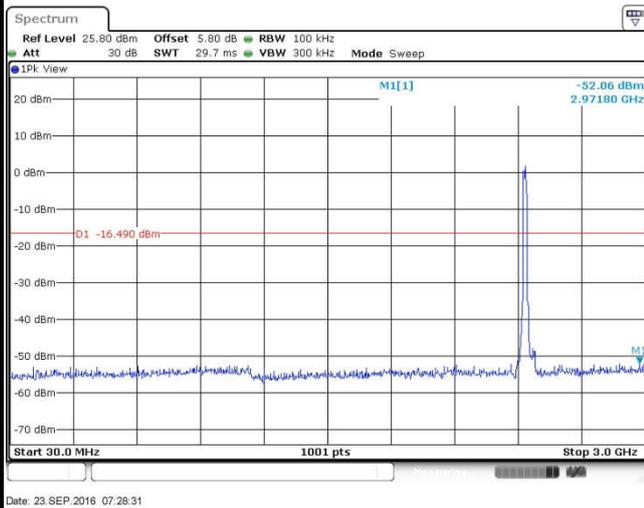
Test Mode :	802.11g	Temperature :	24~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	54~55%
Test Channel :	06	Test Engineer :	Ivan Zhang

WLAN 802.11g Channel 06

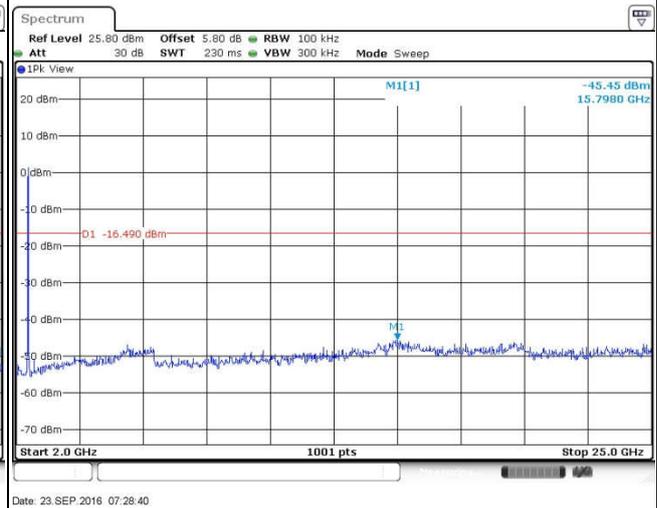
100kHz PSD reference Level



Spurious Emission 30MHz~3GHz



Spurious Emission 2GHz~25GHz

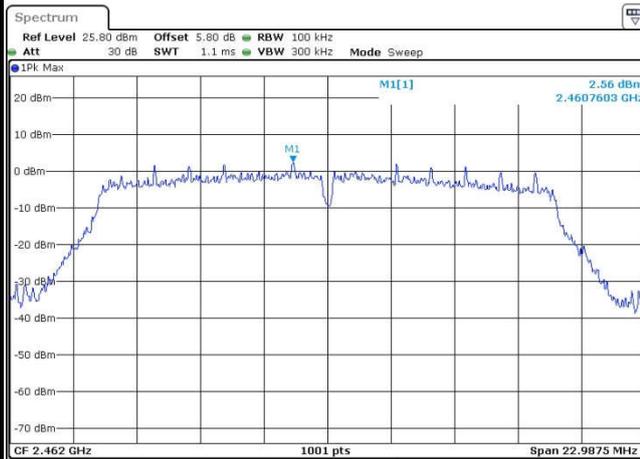




Test Mode :	802.11g	Temperature :	24~25°C
Test Band :	2.4GHz High	Relative Humidity :	54~55%
Test Channel :	11	Test Engineer :	Ivan Zhang

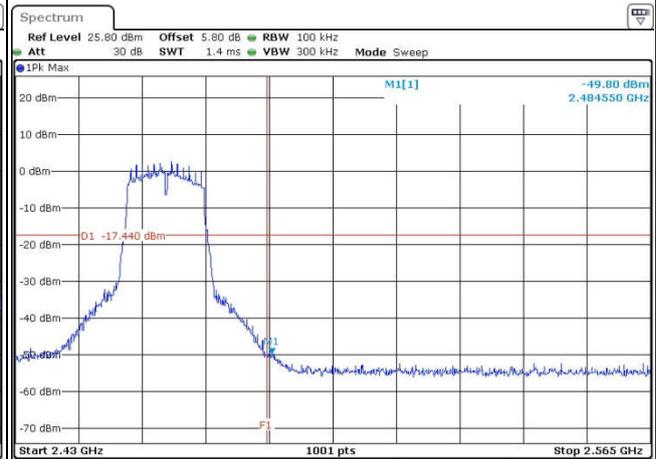
WLAN 802.11g Channel 11

100kHz PSD reference Level



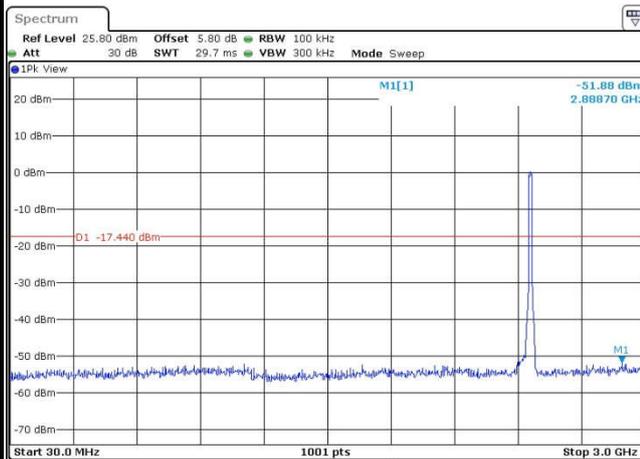
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High Channel Plot



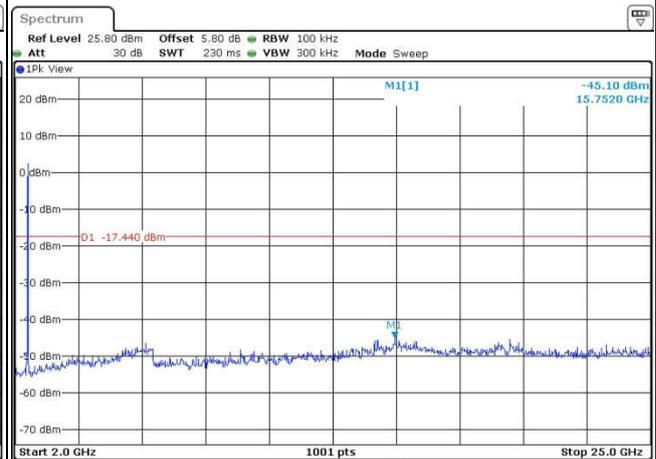
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Spurious Emission 30MHz~3GHz



Date: 23.SEP.2016 07:31:02

Spurious Emission 2GHz~25GHz



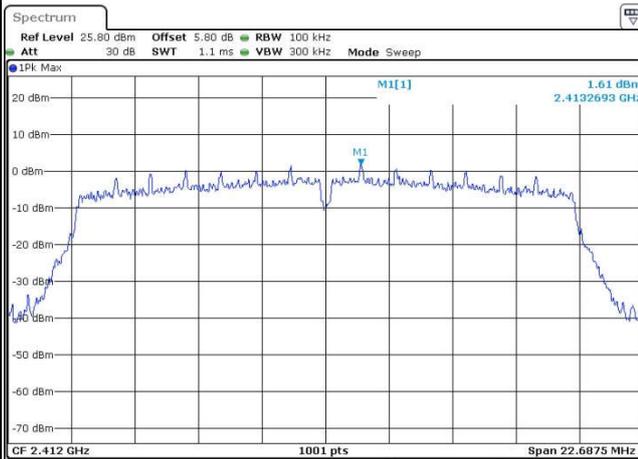
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Test Mode :	802.11n HT20	Temperature :	24~25°C
Test Band :	2.4GHz Low	Relative Humidity :	54~55%
Test Channel :	01	Test Engineer :	Ivan Zhang

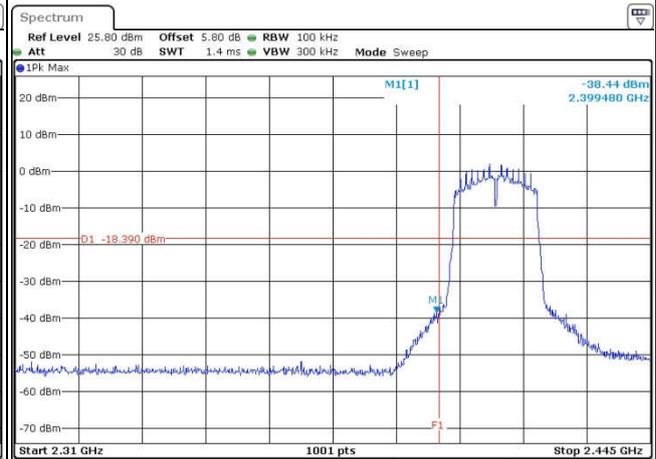
WLAN 802.11n HT20 Channel 01

100kHz PSD reference Level



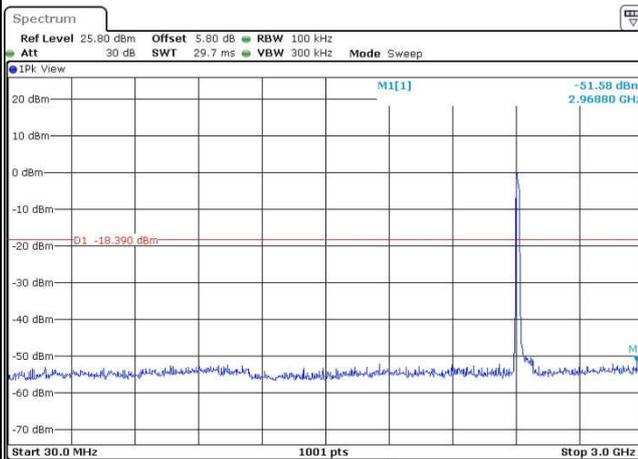
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Low Channel Plot



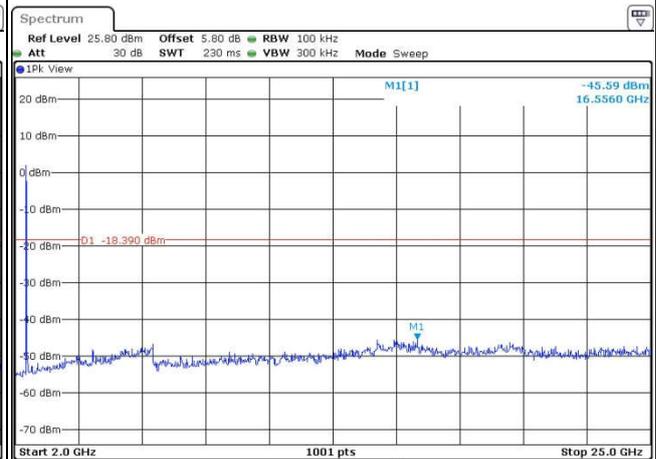
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Spurious Emission 30MHz~3GHz



Date: 23.SEP.2016 07:35:29

Spurious Emission 2GHz~25GHz



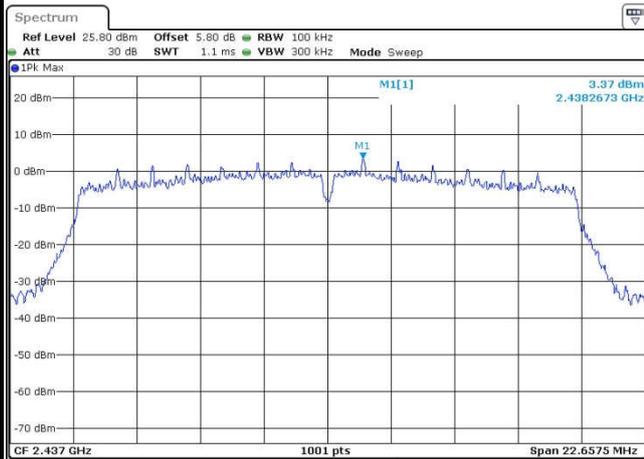
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Test Mode :	802.11n HT20	Temperature :	24~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	54~55%
Test Channel :	06	Test Engineer :	Ivan Zhang

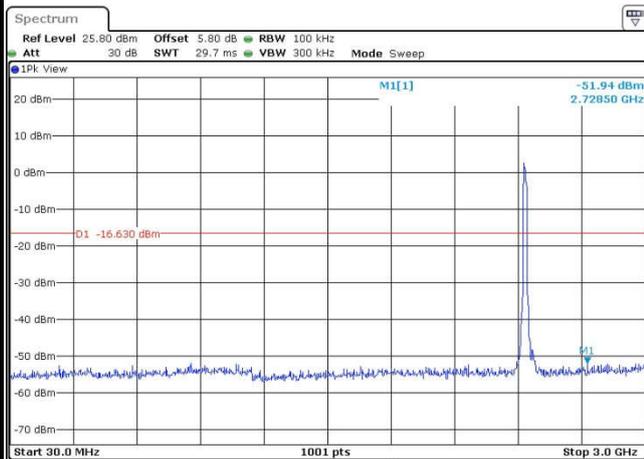
WLAN 802.11n HT20 Channel 06

100kHz PSD reference Level



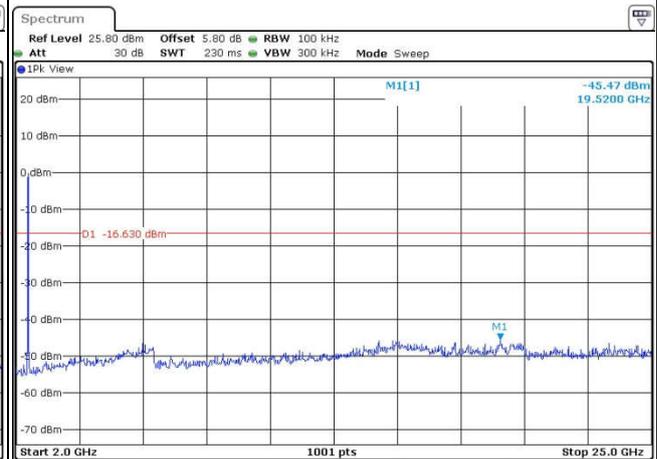
Date: 23.SEP.2016 07:37:11

Spurious Emission 30MHz~3GHz



Date: 23.SEP.2016 07:37:22

Spurious Emission 2GHz~25GHz



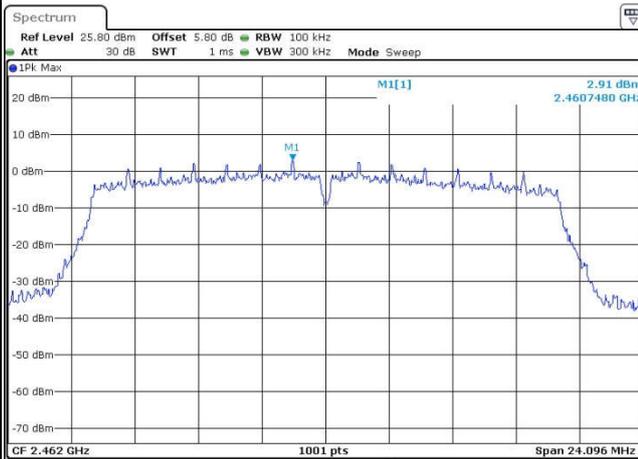
Date: 23.SEP.2016 07:37:30



Test Mode :	802.11n HT20	Temperature :	24~25°C
Test Band :	2.4GHz High	Relative Humidity :	54~55%
Test Channel :	11	Test Engineer :	Ivan Zhang

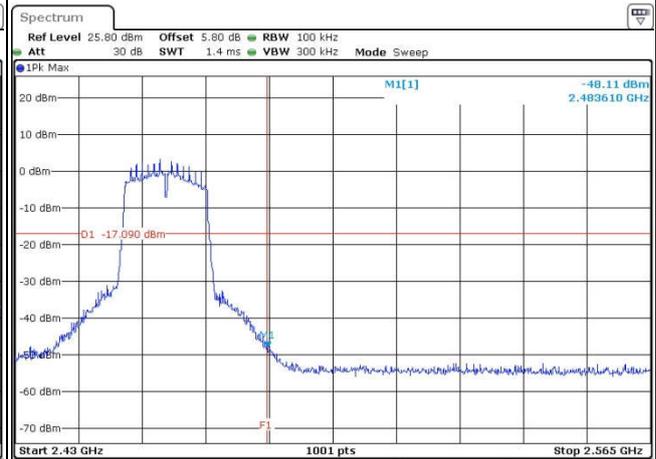
WLAN 802.11n HT20 Channel 11

100kHz PSD reference Level



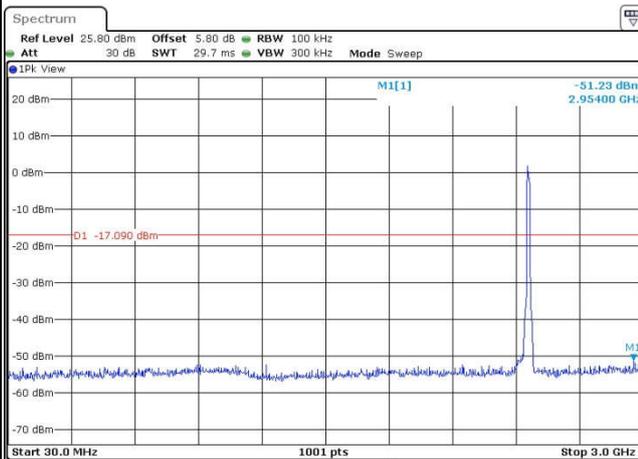
Date: 23.SEP.2016 07:39:33

High Channel Plot



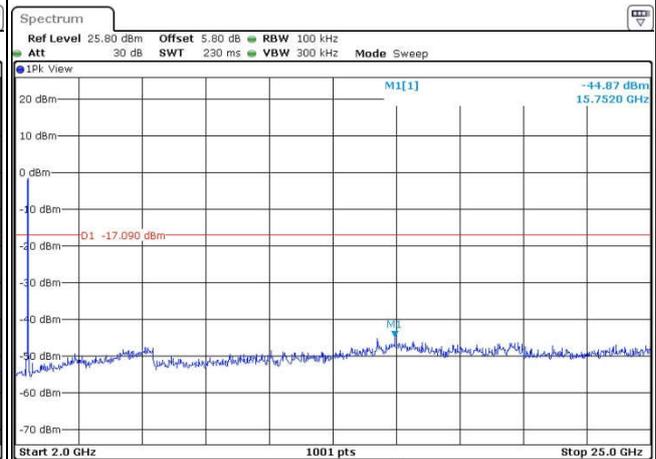
Date: 23.SEP.2016 07:39:58

Spurious Emission 30MHz~3GHz



Date: 23.SEP.2016 07:40:11

Spurious Emission 2GHz~25GHz



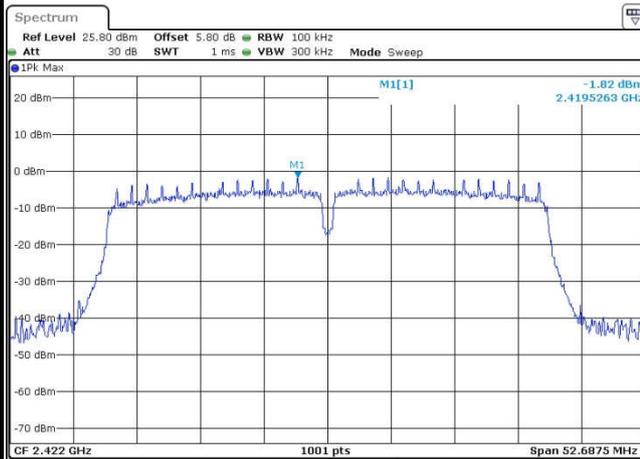
Date: 23.SEP.2016 07:40:19



Test Mode :	802.11n HT40	Temperature :	24~25°C
Test Band :	2.4GHz Low	Relative Humidity :	54~55%
Test Channel :	03	Test Engineer :	Ivan Zhang

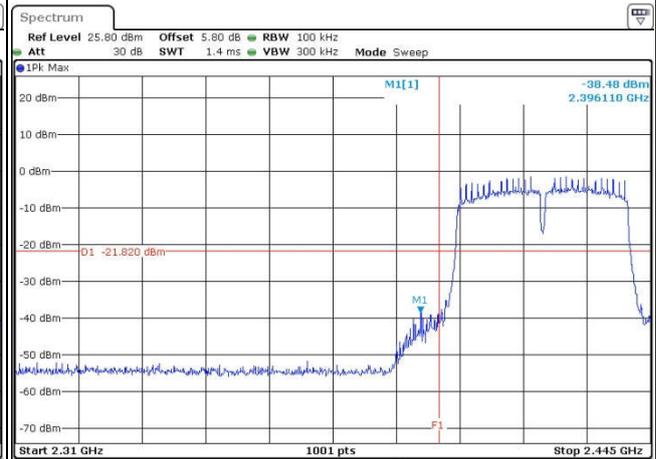
WLAN 802.11n HT40 Channel 03

100kHz PSD reference Level



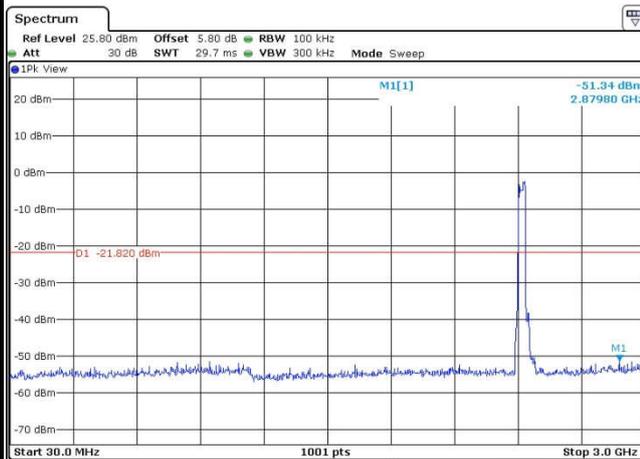
Date: 23.SEP.2016 07:42:15

Low Channel Plot



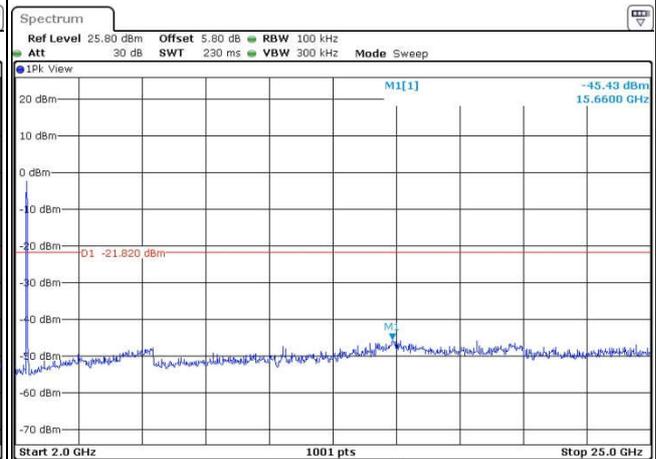
Date: 23.SEP.2016 07:42:29

Spurious Emission 30MHz~3GHz



Date: 23.SEP.2016 07:44:59

Spurious Emission 2GHz~25GHz



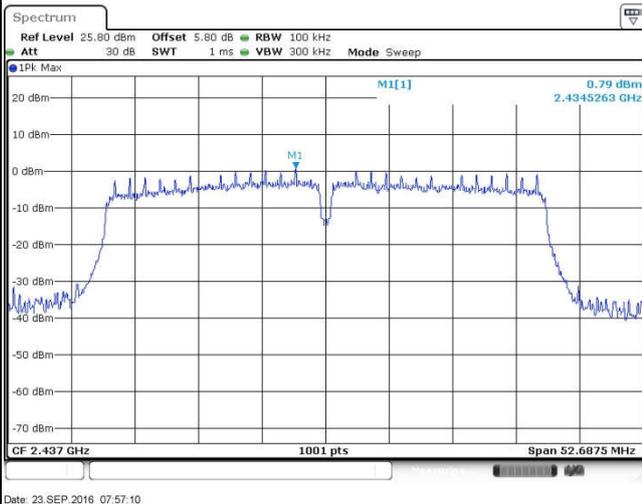
Date: 23.SEP.2016 07:44:18



Test Mode :	802.11n HT40	Temperature :	24~25°C
Test Band :	2.4GHz Mid	Relative Humidity :	54~55%
Test Channel :	06	Test Engineer :	Ivan Zhang

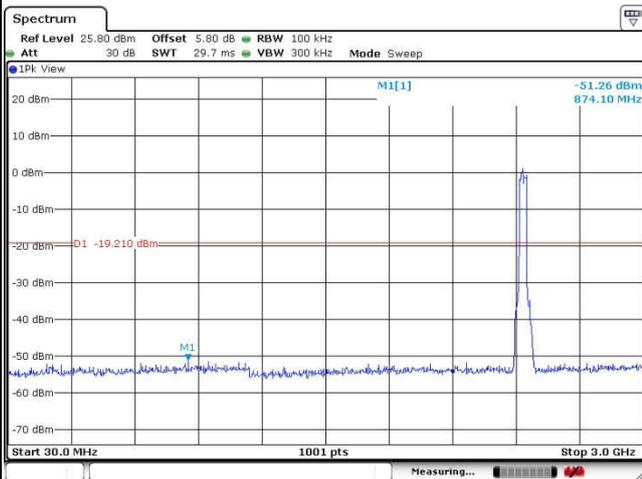
WLAN 802.11n HT40 Channel 06

100kHz PSD reference Level



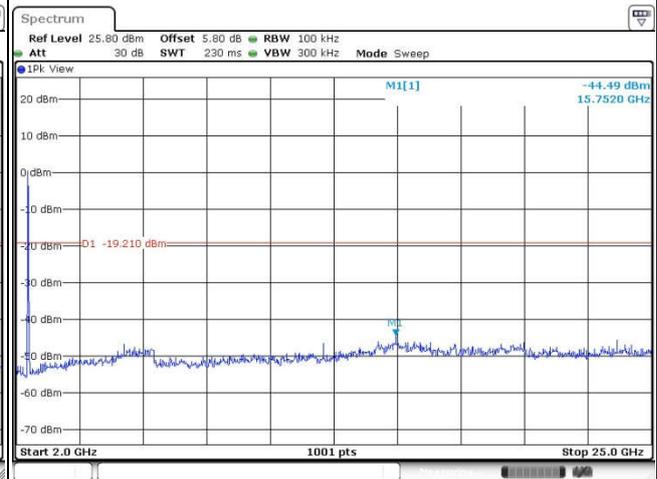
Date: 23.SEP.2016 07:57:10

Spurious Emission 30MHz~3GHz



Date: 23.SEP.2016 07:59:13

Spurious Emission 2GHz~25GHz



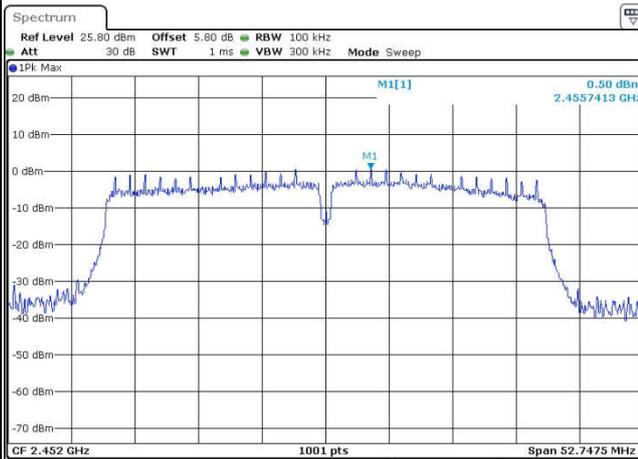
Date: 23.SEP.2016 07:58:34



Test Mode :	802.11n HT40	Temperature :	24~25°C
Test Band :	2.4GHz High	Relative Humidity :	54~55%
Test Channel :	09	Test Engineer :	Ivan Zhang

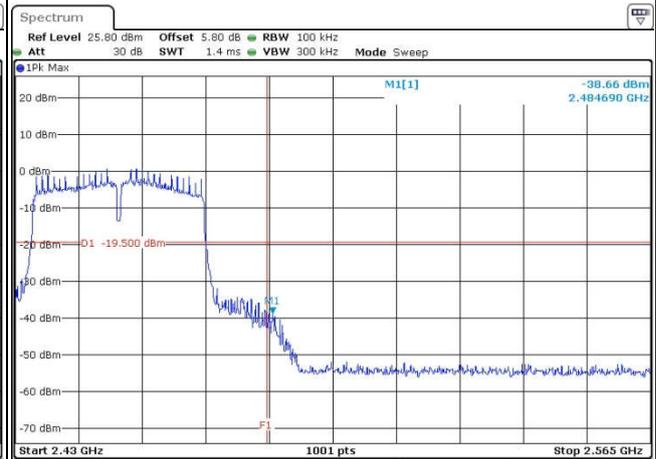
WLAN 802.11n HT40 Channel 09

100kHz PSD reference Level



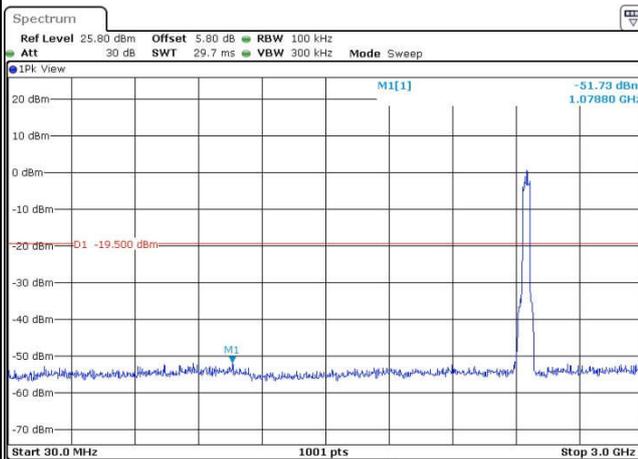
Date: 23.SEP.2016 07:53:34

High Channel Plot



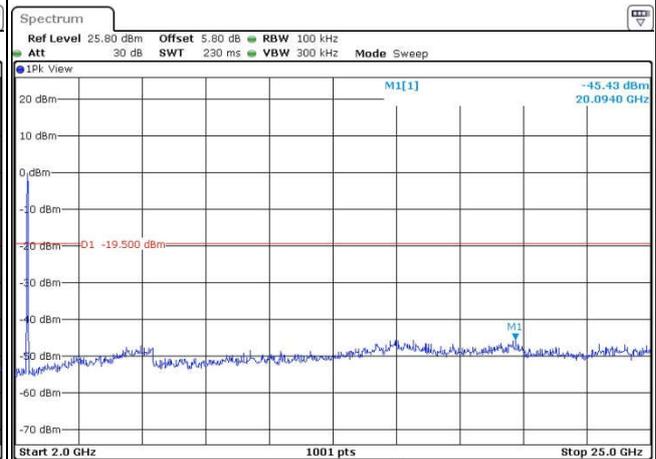
Date: 23.SEP.2016 07:53:46

Spurious Emission 30MHz~3GHz



Date: 23.SEP.2016 07:54:30

Spurious Emission 2GHz~25GHz



Date: 23.SEP.2016 07:54:38



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.

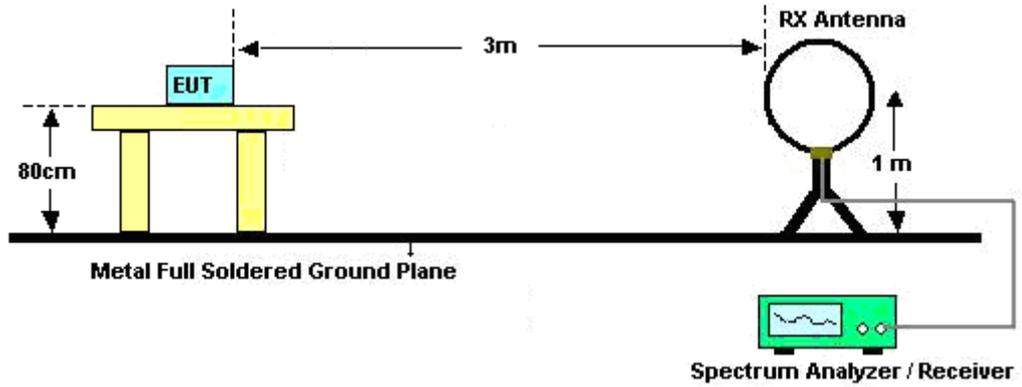


3.5.3 Test Procedures

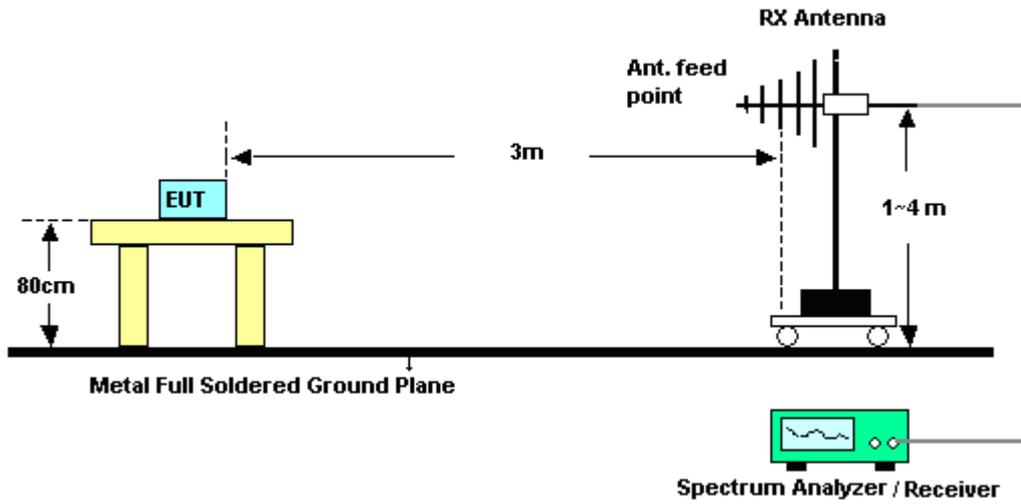
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v03r05.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the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

3.5.4 Test Setup

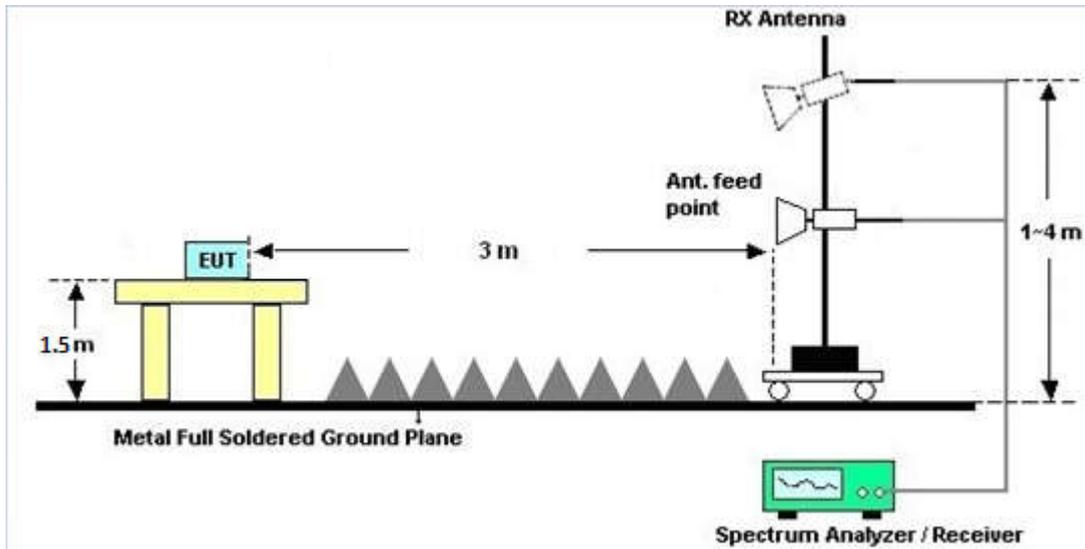
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 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 (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

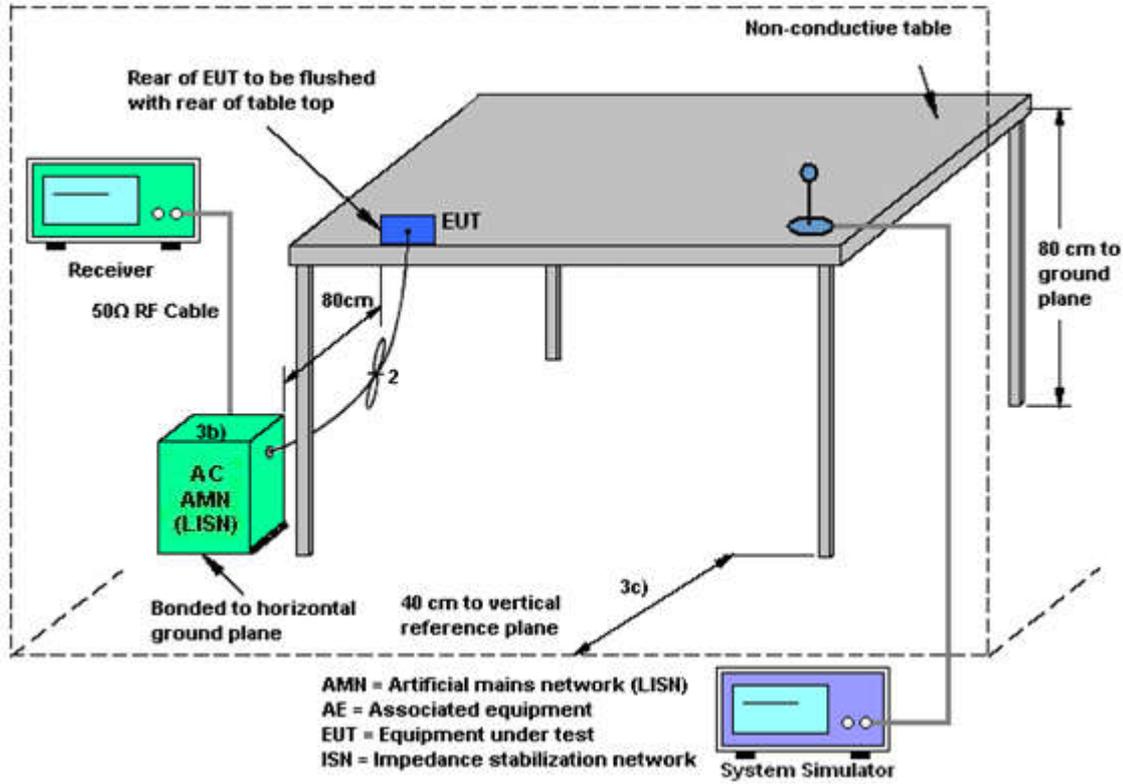
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

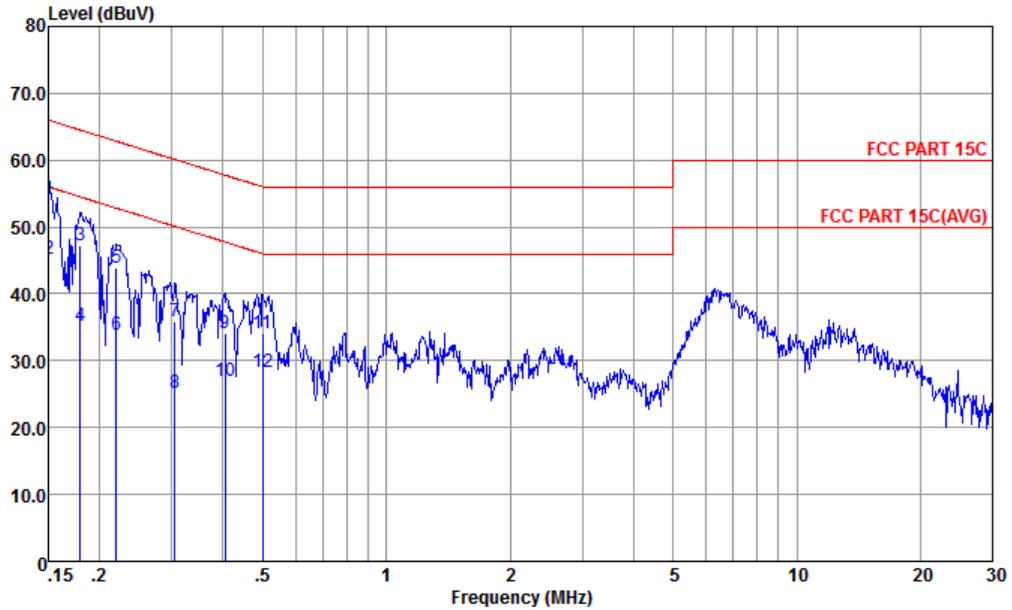
3.6.4 Test Setup





3.6.5 Test Result of AC Conducted Emission

Test Mode :	Mode 2	Temperature :	22~24°C
Test Engineer :	Morris Li	Relative Humidity :	48~50%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable 2(Charging from Adapter 2)		



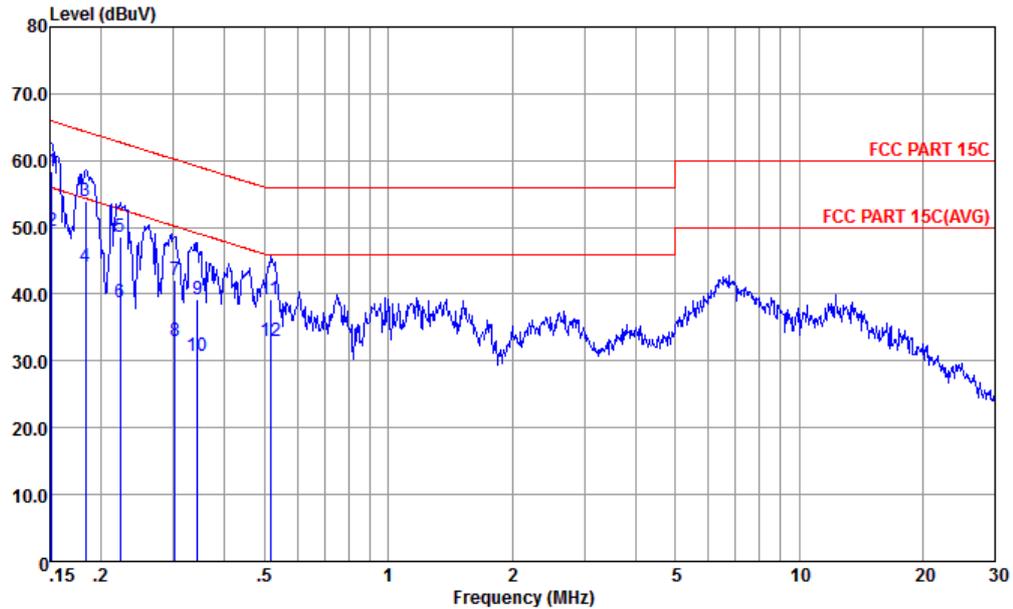
Site : CO01-KS
 Condition : FCC PART 15C LISN-L-20151024 LINE

mode : Mode 2
 IMEI : 353860080000094/353860080000102 #5

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.150	54.14	-11.86	66.00	43.22	0.53	10.39	QP
2 *	0.150	45.14	-10.86	56.00	34.22	0.53	10.39	Average
3	0.180	47.16	-17.34	64.50	36.46	0.34	10.36	QP
4	0.180	35.26	-19.24	54.50	24.56	0.34	10.36	Average
5	0.220	43.85	-18.98	62.83	33.32	0.22	10.31	QP
6	0.220	33.95	-18.88	52.83	23.42	0.22	10.31	Average
7	0.305	35.77	-24.33	60.10	25.30	0.22	10.25	QP
8	0.305	25.27	-24.83	50.10	14.80	0.22	10.25	Average
9	0.404	34.20	-23.57	57.77	23.77	0.23	10.20	QP
10	0.404	26.90	-20.87	47.77	16.47	0.23	10.20	Average
11	0.499	34.09	-21.92	56.01	23.67	0.23	10.19	QP
12	0.499	28.19	-17.82	46.01	17.77	0.23	10.19	Average



Test Mode :	Mode 2	Temperature :	22~24°C
Test Engineer :	Morris Li	Relative Humidity :	48~50%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Function Type :	GSM850 Idle + Bluetooth Link + WLAN Link + Earphone + USB Cable 2(Charging from Adapter 2)		



Site : CO01-KS
 Condition : FCC PART 15C LISN-N-20151024 NEUTRAL

mode : Mode 2
 IMEI : 353860080000094/353860080000102 #5

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.152	58.31	-7.60	65.91	47.62	0.30	10.39	QP
2 *	0.152	49.51	-6.40	55.91	38.82	0.30	10.39	Average
3	0.183	54.03	-10.30	64.33	43.37	0.31	10.35	QP
4	0.183	44.13	-10.20	54.33	33.47	0.31	10.35	Average
5	0.222	48.64	-14.10	62.74	38.02	0.31	10.31	QP
6	0.222	38.84	-13.90	52.74	28.22	0.31	10.31	Average
7	0.302	42.06	-18.13	60.19	31.50	0.31	10.25	QP
8	0.302	33.06	-17.13	50.19	22.50	0.31	10.25	Average
9	0.343	39.17	-19.96	59.13	28.62	0.32	10.23	QP
10	0.343	30.67	-18.46	49.13	20.12	0.32	10.23	Average
11	0.516	39.29	-16.71	56.00	28.78	0.32	10.19	QP
12	0.516	32.99	-13.01	46.00	22.48	0.32	10.19	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. 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
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Aug. 09, 2016	Sep. 23, 2016	Aug. 08, 2017	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 20, 2016	Sep. 23, 2016	Jan. 19, 2017	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 20, 2016	Sep. 23, 2016	Jan. 19, 2017	Conducted (TH01-KS)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Sep. 02, 2015	Sep. 19, 2016 ~ Sep. 21, 2016	Sep. 01, 2017	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 20, 2015	Sep. 19, 2016 ~ Sep. 21, 2016	Nov. 19, 2016	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D	35414	30MHz~1GHz	Nov. 17, 2015	Sep. 19, 2016 ~ Sep. 21, 2016	Nov. 16, 2016	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 08, 2015	Sep. 19, 2016 ~ Sep. 21, 2016	Oct. 07, 2016	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 19, 2015	Sep. 19, 2016 ~ Sep. 21, 2016	Nov. 18, 2016	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1902247	1GHz~18GHz	Jun. 22, 2016	Sep. 19, 2016 ~ Sep. 21, 2016	Jun. 21, 2017	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Sep. 24, 2015	Sep. 19, 2016 ~ Sep. 21, 2016	Sep. 23, 2016	Radiation (03CH11-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Sep. 19, 2016 ~ Sep. 21, 2016	N/A	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Sep. 19, 2016 ~ Sep. 21, 2016	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Sep. 19, 2016 ~ Sep. 21, 2016	N/A	Radiation (03CH11-HY)
Preamplifier	MITEQ	TTA0204	1872107	2GHz ~ 40GHz	Feb. 15, 2016	Sep. 19, 2016 ~ Sep. 21, 2016	Feb. 14, 2017	Radiation (03CH11-HY)
EMI Test Receiver	Agilent	N9038A (MXE)	MY53290053	20Hz to 26.5GHz	Jan. 20, 2016	Sep. 19, 2016 ~ Sep. 21, 2016	Jan. 19, 2017	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 02, 2015	Sep. 19, 2016 ~ Sep. 21, 2016	Nov. 01, 2016	Radiation (03CH11-HY)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 29, 2016	Sep. 23, 2016	Apr. 28, 2017	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 24, 2015	Sep. 23, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Oct. 24, 2015	Sep. 23, 2016	Oct. 23, 2016	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000811	AC 0V~300V, 45Hz~1000Hz	Oct. 24, 2015	Sep. 23, 2016	Oct. 23, 2016	Conduction (CO01-KS)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.3 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

Uncertainty of Radiated Emission Measurement (1GHz ~ 18GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5 dB
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Uncertainty of Radiated Emission Measurement (18GHz ~ 40GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2 dB
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Appendix A. Conducted Test Results

A1 - DTS Part

Test Engineer:	Ivan Zhang	Temperature:	24~25	°C
Test Date:	2016/9/23	Relative Humidity:	54~55	%

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	12.24	9.07	0.50	Pass
11b	1Mbps	1	6	2437	12.19	9.07	0.50	Pass
11b	1Mbps	1	11	2462	12.39	9.53	0.50	Pass
11g	6Mbps	1	1	2412	17.48	15.13	0.50	Pass
11g	6Mbps	1	6	2437	17.48	15.11	0.50	Pass
11g	6Mbps	1	11	2462	17.58	15.33	0.50	Pass
HT20	MCS0	1	1	2412	18.13	15.13	0.50	Pass
HT20	MCS0	1	6	2437	18.28	15.11	0.50	Pass
HT20	MCS0	1	11	2462	18.18	16.06	0.50	Pass
HT40	MCS0	1	3	2422	36.06	35.13	0.50	Pass
HT40	MCS0	1	6	2437	36.36	35.13	0.50	Pass
HT40	MCS0	1	9	2452	36.36	35.17	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	15.02	30.00	-1.00	14.02	36.00	Pass
11b	1Mbps	1	6	2437	16.66	30.00	-1.00	15.66	36.00	Pass
11b	1Mbps	1	11	2462	16.45	30.00	-1.00	15.45	36.00	Pass
11g	6Mbps	1	1	2412	20.83	30.00	-1.00	19.83	36.00	Pass
11g	6Mbps	1	6	2437	22.55	30.00	-1.00	21.55	36.00	Pass
11g	6Mbps	1	11	2462	22.48	30.00	-1.00	21.48	36.00	Pass
HT20	MCS0	1	1	2412	21.31	30.00	-1.00	20.31	36.00	Pass
HT20	MCS0	1	6	2437	22.56	30.00	-1.00	21.56	36.00	Pass
HT20	MCS0	1	11	2462	22.38	30.00	-1.00	21.38	36.00	Pass
HT40	MCS0	1	3	2422	22.66	30.00	-1.00	21.66	36.00	Pass
HT40	MCS0	1	6	2437	22.91	30.00	-1.00	21.91	36.00	Pass
HT40	MCS0	1	9	2452	22.83	30.00	-1.00	21.83	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

2.4GHz Band						
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
11b	1Mbps	1	1	2412	0.00	11.68
11b	1Mbps	1	6	2437	0.00	13.66
11b	1Mbps	1	11	2462	0.00	13.48
11g	6Mbps	1	1	2412	0.11	11.27
11g	6Mbps	1	6	2437	0.11	13.42
11g	6Mbps	1	11	2462	0.11	13.33
HT20	MCS0	1	1	2412	0.12	11.14
HT20	MCS0	1	6	2437	0.12	13.20
HT20	MCS0	1	11	2462	0.12	13.14
HT40	MCS0	1	3	2422	0.23	11.44
HT40	MCS0	1	6	2437	0.23	13.31
HT40	MCS0	1	9	2452	0.23	13.15

TEST RESULTS DATA
Peak Power Density

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-10.78	-1.00	8.00	Pass
11b	1Mbps	1	6	2437	-9.60	-1.00	8.00	Pass
11b	1Mbps	1	11	2462	-8.64	-1.00	8.00	Pass
11g	6Mbps	1	1	2412	-12.77	-1.00	8.00	Pass
11g	6Mbps	1	6	2437	-10.27	-1.00	8.00	Pass
11g	6Mbps	1	11	2462	-10.47	-1.00	8.00	Pass
HT20	MCS0	1	1	2412	-12.01	-1.00	8.00	Pass
HT20	MCS0	1	6	2437	-10.73	-1.00	8.00	Pass
HT20	MCS0	1	11	2462	-11.24	-1.00	8.00	Pass
HT40	MCS0	1	3	2422	-16.65	-1.00	8.00	Pass
HT40	MCS0	1	6	2437	-13.68	-1.00	8.00	Pass
HT40	MCS0	1	9	2452	-14.54	-1.00	8.00	Pass



Appendix B. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2326.59	50.28	-23.72	74	50.88	26.82	6.58	34	380	101	P	H
		2390	39.95	-14.05	54	40.21	27.01	6.71	33.98	380	101	A	H
	*	2412	100.73	-	-	100.94	27.06	6.71	33.98	380	101	P	H
	*	2412	96.85	-	-	97.06	27.06	6.71	33.98	380	101	A	H
		2312.73	50.95	-23.05	74	51.61	26.77	6.58	34.01	381	67	P	V
		2389.8	40.09	-13.91	54	40.35	27.01	6.71	33.98	381	67	A	V
	*	2412	100.01	-	-	100.22	27.06	6.71	33.98	381	67	P	V
	*	2412	96.33	-	-	96.54	27.06	6.71	33.98	381	67	A	V
802.11b CH 06 2437MHz		2380.14	51.53	-22.47	74	51.85	26.96	6.71	33.99	333	95	P	H
		2389.8	40.25	-13.75	54	40.51	27.01	6.71	33.98	333	95	A	H
	*	2437	105	-	-	105.07	27.16	6.74	33.97	333	95	P	H
	*	2437	101.16	-	-	101.23	27.16	6.74	33.97	333	95	A	H
		2497.27	51.85	-22.15	74	51.72	27.3	6.77	33.94	333	95	P	H
		2485.02	40.96	-13.04	54	40.89	27.25	6.77	33.95	333	95	A	H
		2366.42	51.64	-22.36	74	52.07	26.91	6.65	33.99	376	61	P	V
		2389.94	40.27	-13.73	54	40.53	27.01	6.71	33.98	376	61	A	V
	*	2437	107.46	-	-	107.53	27.16	6.74	33.97	376	61	P	V
	*	2437	103.73	-	-	103.8	27.16	6.74	33.97	376	61	A	V
		2488.45	52.05	-21.95	74	51.93	27.3	6.77	33.95	376	61	P	V
	2484.95	41	-13	54	40.93	27.25	6.77	33.95	376	61	A	V	



802.11b CH 11 2462MHz	*	2462	104.92	-	-	104.91	27.2	6.77	33.96	363	98	P	H
	*	2462	101.18	-	-	101.17	27.2	6.77	33.96	363	98	A	H
		2487.16	51.85	-22.15	74	51.78	27.25	6.77	33.95	363	98	P	H
		2483.52	40.78	-13.22	54	40.71	27.25	6.77	33.95	363	98	A	H
	*	2462	107.16	-	-	107.15	27.2	6.77	33.96	369	60	P	V
	*	2462	103.35	-	-	103.34	27.2	6.77	33.96	369	60	A	V
		2485.84	51.18	-22.82	74	51.11	27.25	6.77	33.95	369	60	P	V
		2484.52	41.15	-12.85	54	41.08	27.25	6.77	33.95	369	60	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 802.11b (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	50.13	-23.87	74	59.52	31.12	10.58	51.09	157	282	P	H
		4824	49.27	-4.73	54	58.66	31.12	10.58	51.09	157	282	A	H
		4824	45.97	-28.03	74	55.36	31.12	10.58	51.09	100	250	P	V
802.11b CH 06 2437MHz		4874	37.18	-36.82	74	46.55	31.21	10.48	51.06	100	0	P	H
		7311	39.04	-34.96	74	41.19	36.08	12.28	50.51	100	0	P	H
		4874	35.67	-38.33	74	45.04	31.21	10.48	51.06	100	0	P	V
		7311	37.88	-36.12	74	40.03	36.08	12.28	50.51	100	0	P	V
802.11b CH 11 2462MHz		4924	47.11	-26.89	74	56.47	31.29	10.39	51.04	100	0	P	H
		7386	39.08	-34.92	74	40.83	36.27	12.49	50.51	100	0	P	H
		4924	45.76	-28.24	74	55.12	31.29	10.39	51.04	100	0	P	V
		7386	38.12	-35.88	74	39.87	36.27	12.49	50.51	100	0	P	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		2329.11	50.03	-23.97	74	50.63	26.82	6.58	34	200	93	P	H
		2389.905	40.85	-13.15	54	41.11	27.01	6.71	33.98	200	93	A	H
	*	2412	104.02	-	-	104.23	27.06	6.71	33.98	200	93	P	H
	*	2412	95.63	-	-	95.84	27.06	6.71	33.98	200	93	A	H
		2372.055	49.88	-24.12	74	50.26	26.96	6.65	33.99	299	74	P	V
		2379.405	40.69	-13.31	54	41.07	26.96	6.65	33.99	299	74	A	V
	*	2412	99.66	-	-	99.87	27.06	6.71	33.98	299	74	P	V
	*	2412	91.14	-	-	91.35	27.06	6.71	33.98	299	74	A	V
802.11g CH 06 2437MHz		2340.52	51.28	-22.72	74	51.75	26.87	6.65	33.99	199	102	P	H
		2389.8	41.57	-12.43	54	41.83	27.01	6.71	33.98	199	102	A	H
	*	2437	109.7	-	-	109.77	27.16	6.74	33.97	199	102	P	H
	*	2437	101.5	-	-	101.57	27.16	6.74	33.97	199	102	A	H
		2484.53	52.51	-21.49	74	52.44	27.25	6.77	33.95	199	102	P	H
		2484.18	43.89	-10.11	54	43.82	27.25	6.77	33.95	199	102	A	H
		2345.42	51.18	-22.82	74	51.65	26.87	6.65	33.99	333	69	P	V
		2389.52	41.07	-12.93	54	41.34	27.01	6.71	33.99	333	69	A	V
	*	2437	103.41	-	-	103.48	27.16	6.74	33.97	333	69	P	V
	*	2437	95.69	-	-	95.76	27.16	6.74	33.97	333	69	A	V
		2485.44	51.99	-22.01	74	51.92	27.25	6.77	33.95	333	69	P	V
		2484.46	42.2	-11.8	54	42.13	27.25	6.77	33.95	333	69	A	V



802.11g CH 11 2462MHz	*	2462	108.85	-	-	108.84	27.2	6.77	33.96	222	100	P	H
	*	2462	100.41	-	-	100.4	27.2	6.77	33.96	222	100	A	H
		2485.68	52.78	-21.22	74	52.71	27.25	6.77	33.95	222	100	P	H
		2483.56	43.19	-10.81	54	43.12	27.25	6.77	33.95	222	100	A	H
	*	2462	103.79	-	-	103.78	27.2	6.77	33.96	322	69	P	V
	*	2462	95.63	-	-	95.62	27.2	6.77	33.96	322	69	A	V
		2484.24	52.08	-21.92	74	52.01	27.25	6.77	33.95	322	69	P	V
		2483.64	42.04	-11.96	54	41.97	27.25	6.77	33.95	322	69	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



**2.4GHz 2400~2483.5MHz
WIFI 802.11g (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	56.4	-17.6	74	65.79	31.12	10.58	51.09	158	283	P	H
		4824	41	-13	54	50.39	31.12	10.58	51.09	158	283	A	H
		4824	46.13	-27.87	74	55.52	31.12	10.58	51.09	100	0	P	V
802.11g CH 06 2437MHz		4874	35.11	-38.89	74	44.48	31.21	10.48	51.06	100	0	P	H
		7311	39.78	-34.22	74	41.93	36.08	12.28	50.51	100	0	P	H
		4874	33.55	-40.45	74	42.92	31.21	10.48	51.06	100	0	P	V
		7311	38.85	-35.15	74	41	36.08	12.28	50.51	100	0	P	V
802.11g CH 11 2462MHz		4924	41.13	-32.87	74	50.49	31.29	10.39	51.04	100	0	P	H
		7386	38.47	-35.53	74	40.22	36.27	12.49	50.51	100	0	P	H
		4924	38.75	-35.25	74	48.11	31.29	10.39	51.04	100	0	P	V
		7386	37.91	-36.09	74	39.66	36.27	12.49	50.51	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2365.65	50.03	-23.97	74	50.46	26.91	6.65	33.99	203	98	P	H
		2390	41.53	-12.47	54	41.79	27.01	6.71	33.98	203	98	A	H
	*	2412	104.94	-	-	105.15	27.06	6.71	33.98	203	98	P	H
	*	2412	96.5	-	-	96.71	27.06	6.71	33.98	203	98	A	H
		2316.825	51.12	-22.88	74	51.77	26.77	6.58	34	343	75	P	V
		2381.085	40.69	-13.31	54	41.01	26.96	6.71	33.99	343	75	A	V
	*	2412	100.32	-	-	100.53	27.06	6.71	33.98	343	75	P	V
	*	2412	92.05	-	-	92.26	27.06	6.71	33.98	343	75	A	V
802.11n HT20 CH 06 2437MHz		2379.16	50.06	-23.94	74	50.44	26.96	6.65	33.99	221	114	P	H
		2367.54	40.58	-13.42	54	41.01	26.91	6.65	33.99	221	114	A	H
	*	2437	108.03	-	-	108.1	27.16	6.74	33.97	221	114	P	H
	*	2437	99.48	-	-	99.55	27.16	6.74	33.97	221	114	A	H
		2485.72	51.98	-22.02	74	51.91	27.25	6.77	33.95	221	114	P	H
		2486.35	42.82	-11.18	54	42.75	27.25	6.77	33.95	221	114	A	H
		2347.38	49.96	-24.04	74	50.43	26.87	6.65	33.99	332	73	P	V
		2385.04	40.6	-13.4	54	40.92	26.96	6.71	33.99	332	73	A	V
	*	2437	104.25	-	-	104.32	27.16	6.74	33.97	332	73	P	V
	*	2437	95.99	-	-	96.06	27.16	6.74	33.97	332	73	A	V
		2483.83	50.94	-23.06	74	50.87	27.25	6.77	33.95	332	73	P	V
	2487.12	41.52	-12.48	54	41.45	27.25	6.77	33.95	332	73	A	V	



802.11n HT20 CH 11 2462MHz	*	2462	108.12	-	-	108.11	27.2	6.77	33.96	190	101	P	H
	*	2462	100	-	-	99.99	27.2	6.77	33.96	190	101	A	H
		2484	51.54	-22.46	74	51.47	27.25	6.77	33.95	190	101	P	H
		2483.92	43.02	-10.98	54	42.95	27.25	6.77	33.95	190	101	A	H
	*	2462	102.63	-	-	102.62	27.2	6.77	33.96	321	73	P	V
	*	2462	95.06	-	-	95.05	27.2	6.77	33.96	321	73	A	V
		2483.84	50.56	-23.44	74	50.49	27.25	6.77	33.95	321	73	P	V
		2484.6	41.56	-12.44	54	41.49	27.25	6.77	33.95	321	73	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 HT20 (Harmonic @ 3m)**

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	49.49	-24.51	74	58.88	31.12	10.58	51.09	100	0	P	H
		4824	47.83	-26.17	74	57.22	31.12	10.58	51.09	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	35.02	-38.98	74	44.39	31.21	10.48	51.06	100	0	P	H
		7311	39.7	-34.3	74	41.85	36.08	12.28	50.51	100	0	P	H
		4874	33.31	-40.69	74	42.68	31.21	10.48	51.06	100	0	P	V
		7311	38.18	-35.82	74	40.33	36.08	12.28	50.51	100	0	P	V
802.11n HT20 CH 11 2462MHz		4924	39.78	-34.22	74	49.14	31.29	10.39	51.04	100	0	P	H
		7386	38.63	-35.37	74	40.38	36.27	12.49	50.51	100	0	P	H
		4924	38.4	-35.6	74	47.76	31.29	10.39	51.04	100	0	P	V
		7386	38.37	-35.63	74	40.12	36.27	12.49	50.51	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2363.865	50.31	-23.69	74	50.74	26.91	6.65	33.99	201	95	P	H
		2346.645	41.66	-12.34	54	42.13	26.87	6.65	33.99	201	95	A	H
	*	2422	103.42	-	-	103.54	27.11	6.74	33.97	201	95	P	H
	*	2422	95.22	-	-	95.34	27.11	6.74	33.97	201	95	A	H
		2346.645	49.88	-24.12	74	50.35	26.87	6.65	33.99	374	64	P	V
		2381.715	41.3	-12.7	54	41.62	26.96	6.71	33.99	374	64	A	V
	*	2422	99.76	-	-	99.88	27.11	6.74	33.97	374	64	P	V
	*	2422	91.56	-	-	91.68	27.11	6.74	33.97	374	64	A	V
802.11n HT40 CH 06 2437MHz		2387.42	50.43	-23.57	74	50.7	27.01	6.71	33.99	168	105	P	H
		2377.06	41.44	-12.56	54	41.82	26.96	6.65	33.99	168	105	A	H
	*	2437	107.07	-	-	107.14	27.16	6.74	33.97	168	105	P	H
	*	2437	98.24	-	-	98.31	27.16	6.74	33.97	168	105	A	H
		2483.55	52.31	-21.69	74	52.24	27.25	6.77	33.95	168	105	P	H
		2483.55	43.3	-10.7	54	43.23	27.25	6.77	33.95	168	105	A	H
		2371.46	50.13	-23.87	74	50.51	26.96	6.65	33.99	375	63	P	V
		2380.14	41.31	-12.69	54	41.63	26.96	6.71	33.99	375	63	A	V
	*	2437	103.25	-	-	103.32	27.16	6.74	33.97	375	63	P	V
	*	2437	95.42	-	-	95.49	27.16	6.74	33.97	375	63	A	V
		2486.84	50.89	-23.11	74	50.82	27.25	6.77	33.95	375	63	P	V
	2483.76	42.38	-11.62	54	42.31	27.25	6.77	33.95	375	63	A	V	



802.11n HT40 CH 09 2452MHz	*	2452	104.86	-	-	104.92	27.16	6.74	33.96	153	104	P	H
	*	2452	96.17	-	-	96.23	27.16	6.74	33.96	153	104	A	H
		2484.56	59.27	-14.73	74	59.2	27.25	6.77	33.95	153	104	P	H
		2484.84	45.55	-8.45	54	45.48	27.25	6.77	33.95	153	104	A	H
	*	2452	100.84	-	-	100.9	27.16	6.74	33.96	400	63	P	V
	*	2452	92.81	-	-	92.87	27.16	6.74	33.96	400	63	A	V
		2485.2	57.77	-16.23	74	57.7	27.25	6.77	33.95	400	63	P	V
	2485.84	44.38	-9.62	54	44.31	27.25	6.77	33.95	400	63	A	V	
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		4824	38.07	-35.93	74	47.46	31.12	10.58	51.09	100	0	P	H
HT40		7311	38.27	-35.73	74	40.42	36.08	12.28	50.51	100	0	P	H
CH 03		4824	36.71	-37.29	74	46.1	31.12	10.58	51.09	100	0	P	V
2422MHz		7311	38.1	-35.9	74	40.25	36.08	12.28	50.51	100	0	P	V
802.11n		4874	33.87	-40.13	74	43.24	31.21	10.48	51.06	100	0	P	H
HT40		7311	38.72	-35.28	74	40.87	36.08	12.28	50.51	100	0	P	H
CH 06		4874	32.88	-41.12	74	42.25	31.21	10.48	51.06	100	0	P	V
2437MHz		7311	37.82	-36.18	74	39.97	36.08	12.28	50.51	100	0	P	V
802.11n		4960	36.79	-37.21	74	46.19	31.34	10.29	51.03	100	0	P	H
HT40		7440	39.02	-34.98	74	40.59	36.39	12.55	50.51	100	0	P	H
CH 09		4960	32.99	-41.01	74	42.39	31.34	10.29	51.03	100	0	P	V
2452MHz		7440	38.83	-35.17	74	40.4	36.39	12.55	50.51	100	0	P	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 802.11b (LF)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
2.4GHz 802.11b LF		30.81	24.04	-15.96	40	29.76	25.18	0.93	31.83	-	-	P	H
		153.66	23.55	-19.95	43.5	36.4	17.25	1.68	31.78	-	-	P	H
		254.37	18.62	-27.38	46	29.31	19.1	1.98	31.77	-	-	P	H
		675.9	27.72	-18.28	46	29.85	26.46	3.45	32.04	-	-	P	H
		836.9	30.76	-15.24	46	29.98	28.75	3.77	31.74	-	-	P	H
		899.2	31.62	-14.38	46	30.02	29.19	3.84	31.43	255	312	P	H
		33.78	30.13	-9.87	40	37.41	23.62	0.93	31.83	169	255	P	V
		55.38	25.42	-14.58	40	42.89	13.4	0.93	31.8	-	-	P	V
		251.67	26.87	-19.13	46	37.76	18.9	1.98	31.77	-	-	P	V
		447	24.72	-21.28	46	29.63	23.25	3.68	31.84	-	-	P	V
		696.9	28.84	-17.16	46	30.76	26.67	3.45	32.04	-	-	P	V
	932.8	32.83	-13.17	46	30.01	30.13	3.86	31.17	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

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

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

For Peak Limit @ 2390MHz:

- 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)
- Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 2390MHz:

- 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)
- 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



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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	<p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical Peak. The plot shows a rising signal level starting around 2380 MHz and reaching a peak of approximately 135 dBuV/m at 2412 MHz. A red line indicates the peak level. The x-axis ranges from 2310 to 2415 MHz, and the y-axis ranges from 17.5 to 140 dBuV/m.</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak</p>	<p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental Peak. The plot shows a sharp peak at 2412 MHz with a level of approximately 105 dBuV/m. A red line indicates the peak level. The x-axis ranges from 1900 to 3000 MHz, and the y-axis ranges from 17.5 to 140 dBuV/m.</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak</p>
Avg.	<p>Level (dBuV/m) vs Frequency (MHz) plot for Vertical Average. The plot shows a rising signal level starting around 2380 MHz and reaching an average level of approximately 105 dBuV/m at 2412 MHz. A red line indicates the average level. The x-axis ranges from 2310 to 2415 MHz, and the y-axis ranges from 17.5 to 140 dBuV/m.</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	<p>Level (dBuV/m) vs Frequency (MHz) plot for Fundamental Average. The plot shows a sharp peak at 2412 MHz with an average level of approximately 105 dBuV/m. A red line indicates the average level. The x-axis ranges from 1900 to 3000 MHz, and the y-axis ranges from 17.5 to 140 dBuV/m.</p> <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>

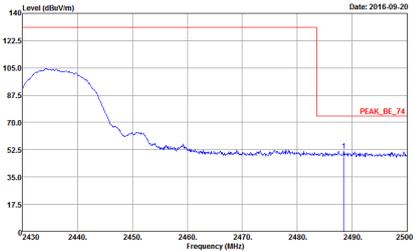
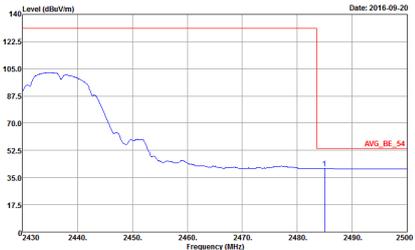


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	
Peak	<p>Level (dBuV/m)</p> <p>Date: 2016-09-20</p> <p>Frequency (MHz)</p> <p>PEAK_BE_74</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak</p>	
Avg.	<p>Level (dBuV/m)</p> <p>Date: 2016-09-20</p> <p>Frequency (MHz)</p> <p>AVG_BE_54</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz	
1	Vertical	
Peak	 <p>Date: 2016-09-20</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT-Auto Detector : Peak</p>	
Avg.	 <p>Date: 2016-09-20</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT-Auto</p>	



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto</p>



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

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>

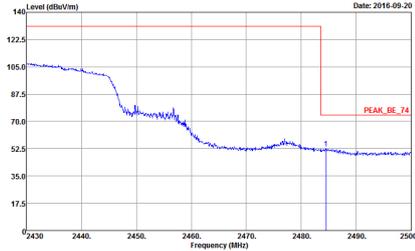
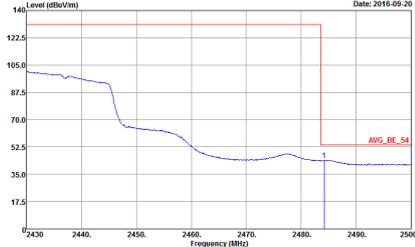


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>

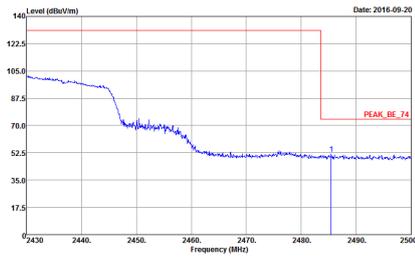
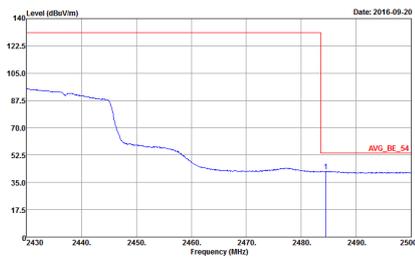


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz	
1	Vertical	
Peak	 <p>Date: 2016-09-20</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	
Avg.	 <p>Date: 2016-09-20</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>

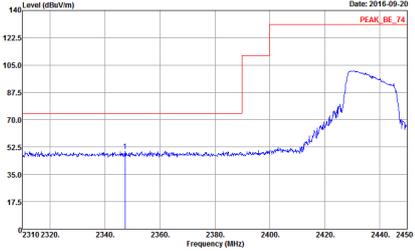
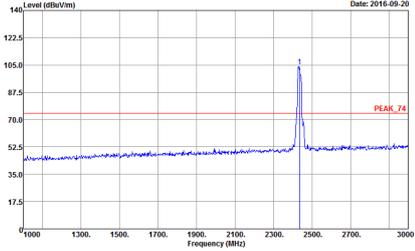
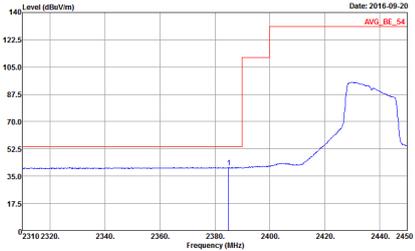
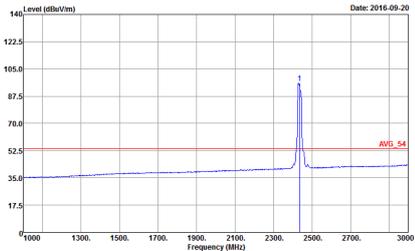


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Vertical	
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	



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



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



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	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>

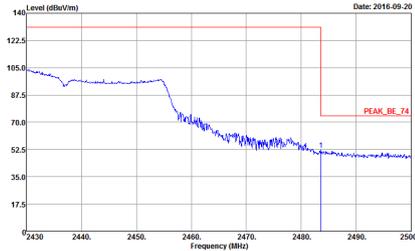
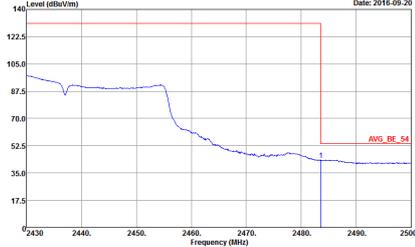


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Vertical	Fundamental
Peak	<p>Date: 2016-09-20 PEAK_BE_74</p> <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak</p>	<p>Date: 2016-09-20 PEAK_74</p> <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak</p>
Avg.	<p>Date: 2016-09-20 AVG_BE_54</p> <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak</p>	<p>Date: 2016-09-20 AVG_54</p> <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto Detector : Peak</p>

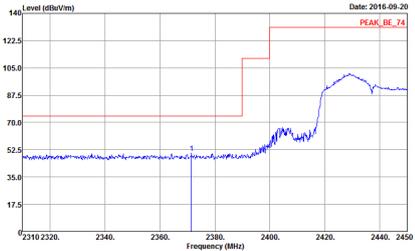
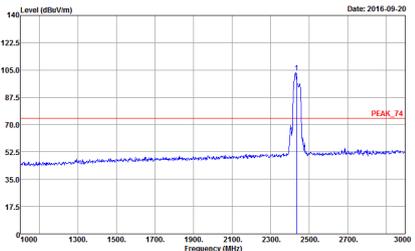
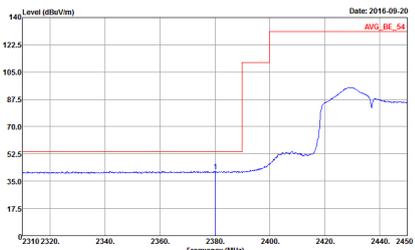
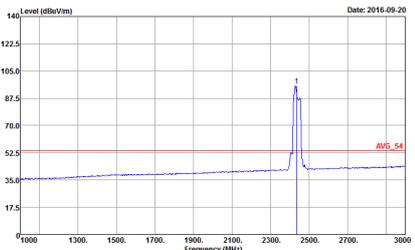


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>

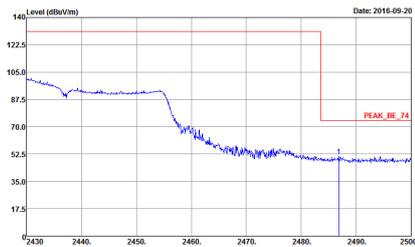
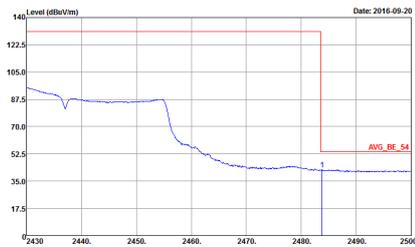


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	
Peak	 <p>Site : 03CHI1-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	
Avg.	 <p>Site : 03CHI1-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak</p>	



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 <p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>
Avg.	 <p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	 <p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Vertical	
Peak	 <p>Site : 03CHI1-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak</p>	
Avg.	 <p>Site : 03CHI1-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3.000KHz SWT:Auto</p>	



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



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Vertical	Fundamental
Peak	<p>Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak</p>
Avg.	<p>Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>	<p>Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak</p>



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

Table with 2 columns: Horizontal and Vertical. Each column contains a graph showing Level (dBuV/m) vs Frequency (MHz) with peak and average values marked. Includes site and condition details for both orientations.



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL</p>



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

Table with 3 columns: WIFI, ANT, and 1. It contains two graphs: Horizontal and Vertical. Each graph shows Level (dBuV/m) vs Frequency (MHz) with a peak at 5.25 MHz. The horizontal graph has a peak level of 74 dBuV/m and an average level of 54 dBuV/m. The vertical graph has a peak level of 74 dBuV/m and an average level of 54 dBuV/m. Both graphs include site and condition information.



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<p style="font-size: small;">Date: 2016-09-20</p> <p style="font-size: x-small;">Site Condition : 03CH11-HY : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL</p>	<p style="font-size: small;">Date: 2016-09-20</p> <p style="font-size: x-small;">Site Condition : 03CH11-HY : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL</p>

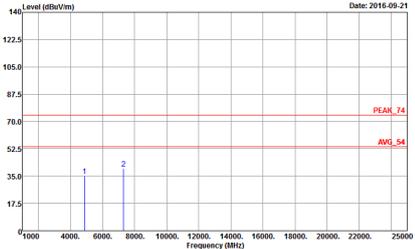
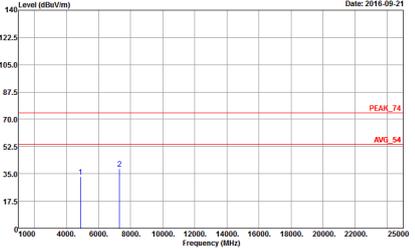


2.4GHz 2400~2483.5MHz

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.	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL</p>	 <p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL</p>



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.	<p>Site Condition : 03CH11-HY : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL</p>	<p>Site Condition : 03CH11-HY : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL</p>



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 HORIZONTAL</p>	<p>Site : 03CH11-HY Condition : PEAK_74 3m 9170 SHF HORM_150809 VERTICAL</p>



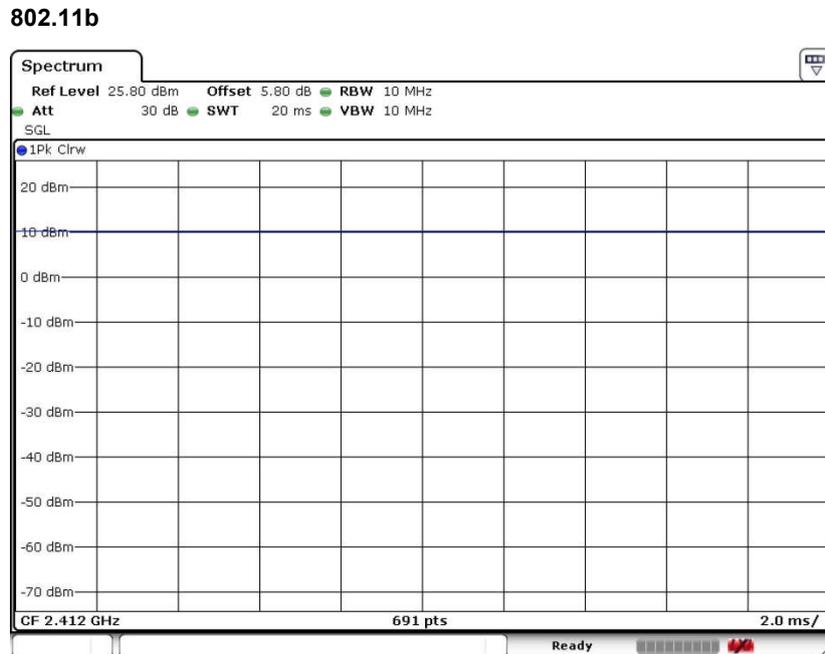
Emission below 1GHz
2.4GHz WIFI 802.11b (LF)

Table with 3 columns: WIFI (2.4GHz 2400~2483.5MHz), ANT (802.11b LF), and 1 (Horizontal/Vertical). It contains two spectral plots showing Level (dBuV/m) vs Frequency (MHz) for QP / Peak. The left plot is for Horizontal and the right for Vertical. Both plots show a blue signal line and a red limit line, with a 'QP' label at the end of the red line.



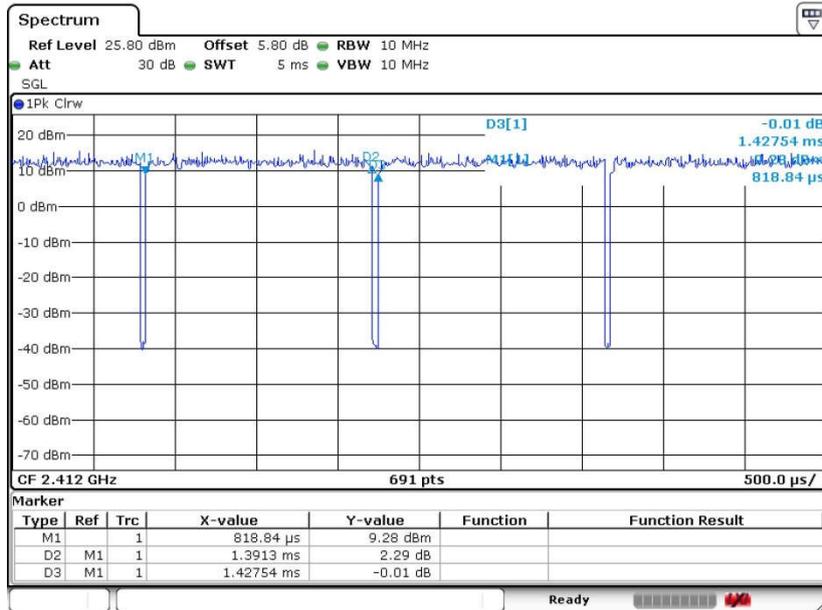
Appendix D. Duty Cycle Plots

Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1	802.11b	100.00	-	-	10Hz
1	802.11g	97.46	1.39	0.719	1kHz
1	802.11n HT20	97.28	1.29	0.775	1kHz
1	802.11n HT40	94.92	0.65	1.540	3kHz

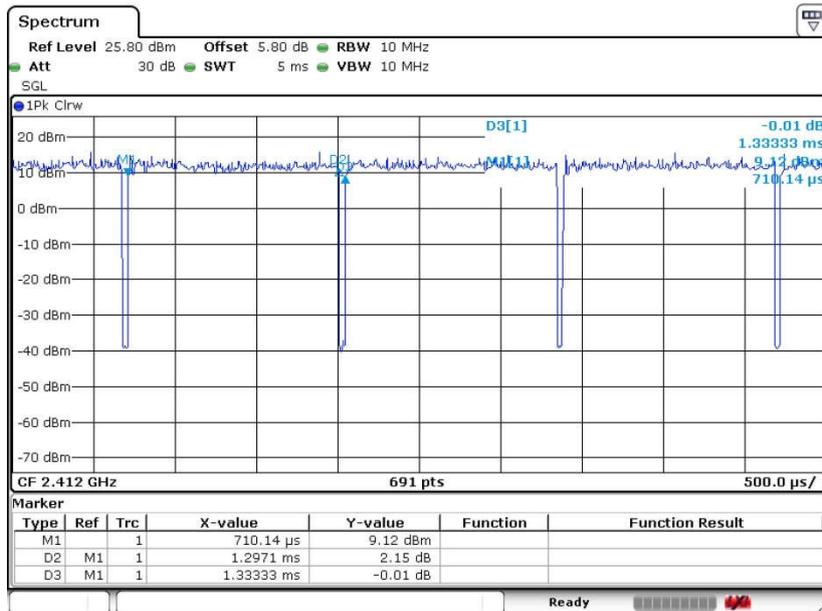




802.11g



802.11n20





802.11n40

