

FCC RF Test Report

APPLICANT : Compal Electronics, INC.
EQUIPMENT : Smart Socket Gateway
BRAND NAME : Compal
MODEL NAME : Edison L1
FCC ID : GKR-DBX71WBZ
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was received on Jan. 17, 2018 and testing was completed on Apr. 20, 2018. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

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



Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

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



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR811720C	Rev. 01	Initial issue of report	Aug. 13, 2018
FR811720C	Rev. 02	Update antenna information.	Aug. 15, 2018

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Pass	-
3.2	15.247(b)	Power Output Measurement	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.49 dB at 124.230 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 6.72 dB at 0.443 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-



1 General Description

1.1 Applicant

Compal Electronics, INC.

No. 581 ruiguang rd.,Neihu District, Taipei City 11492, Taiwan (R.O.C.)

1.2 Manufacturer

Compal Electronics, Inc. Pingzhen plant

3-4F., No. 8-1 & No. 8, Nandong Rd., Pingzhen Dist., Taoyuan City, 32455, Taiwan (R.O.C.)

1.3 Product Feature of Equipment Under Test

Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, and Zigbee.

Product Specification subjective to this standard	
Antenna Type	WLAN: Coupling Antenna Bluetooth: Coupling Antenna Zigbee: PIFA Antenna

1.4 Modification of EUT

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

1.5 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1190 and TW0007 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1 st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	Sporton Site No.	
	TH05-HY	CO05-HY

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

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd Rd. Guishan Dist, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855	
Test Site No.	Sporton Site No.	
	03CH11-HY	

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

1.6 Applicable Standards

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

- FCC Part 15 Subpart C §15.247
- FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
- ANSI C63.10-2013

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

2 Test Configuration of Equipment Under Test

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

2.1 Carrier Frequency and Channel

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

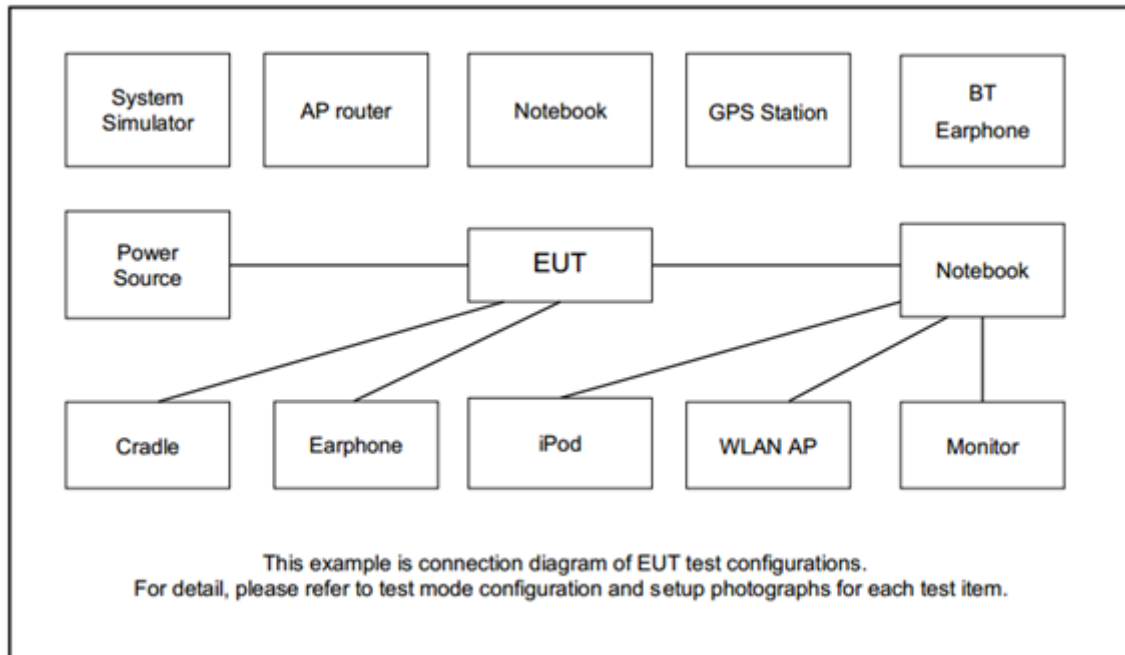
2.2 Test Mode

Final test modes 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

Test Cases	
AC Conducted Emission	Mode 1 :WLAN (2.4GHz) Tx
	Mode 2 :Bluetooth Tx
	Mode 3 :Zigbee Tx
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



2.4 EUT Operation Test Setup

The RF test items, utility “RFTestTool” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

2.5 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 4.2 dB and 10dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 4.2 + 10 = 14.2 \text{ (dB)} \end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

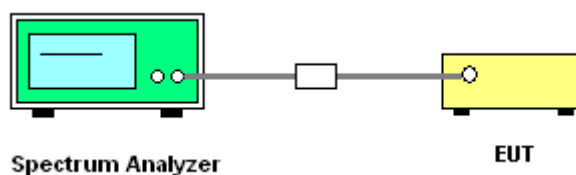
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

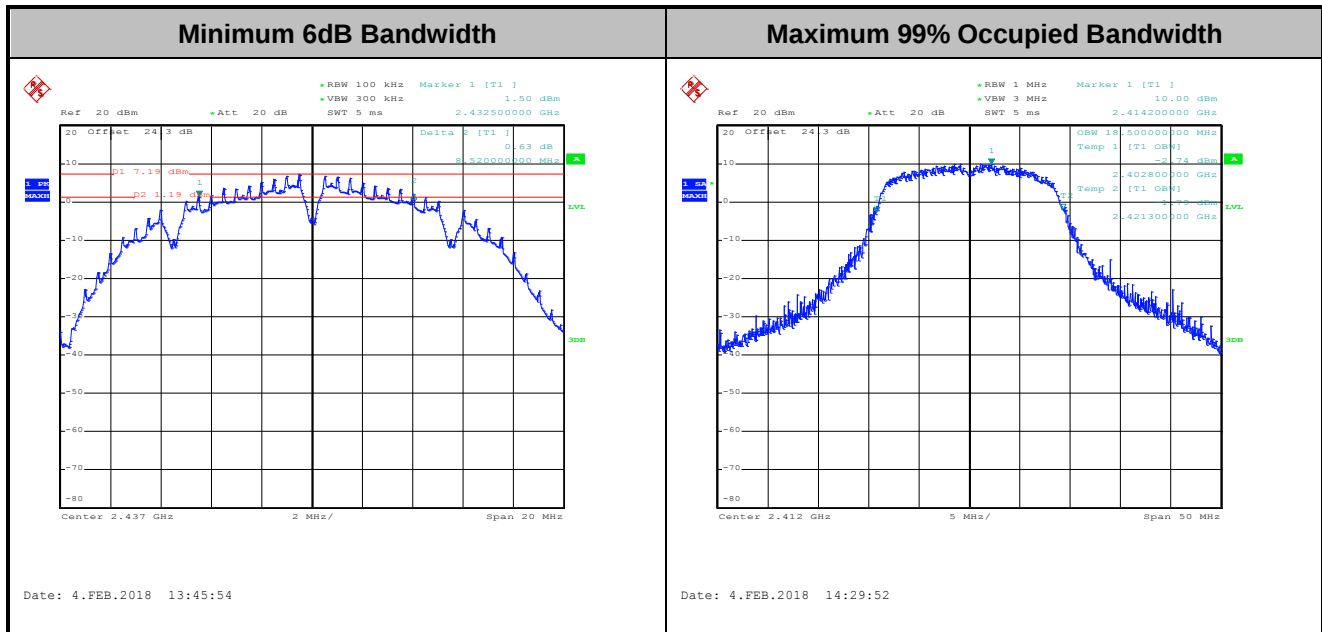
1. The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



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

3.2 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 with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

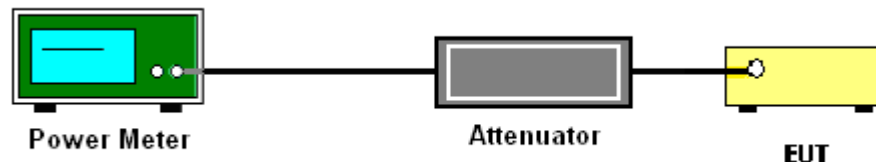
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04 section 9.1.3 PKPM1 Peak power meter method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

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

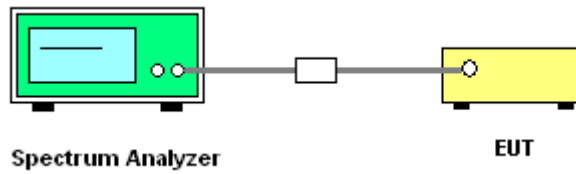
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

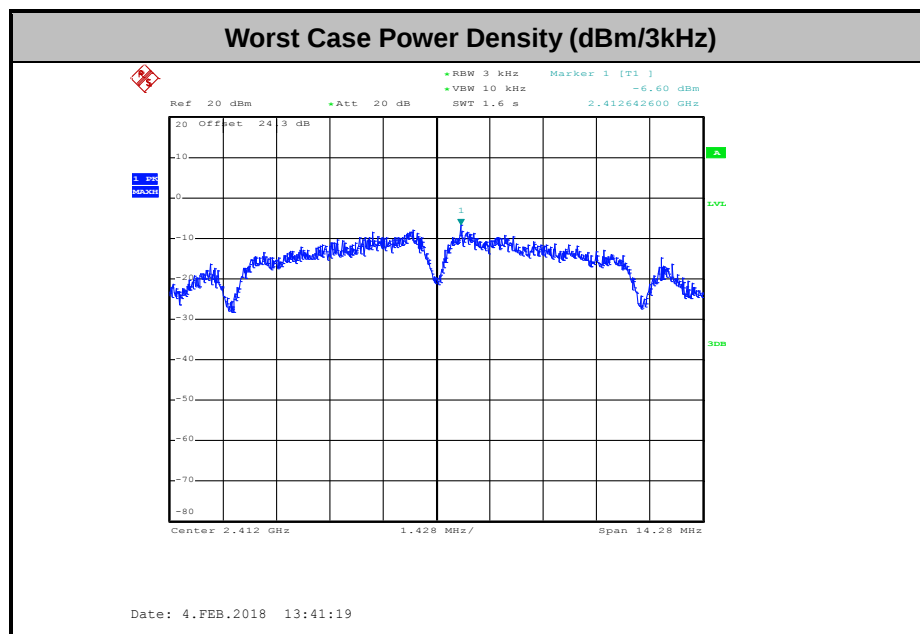
1. The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

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

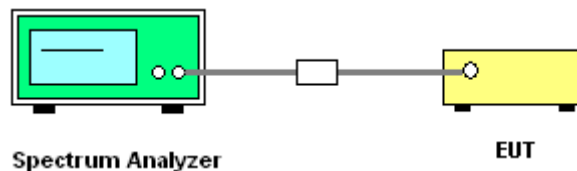
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



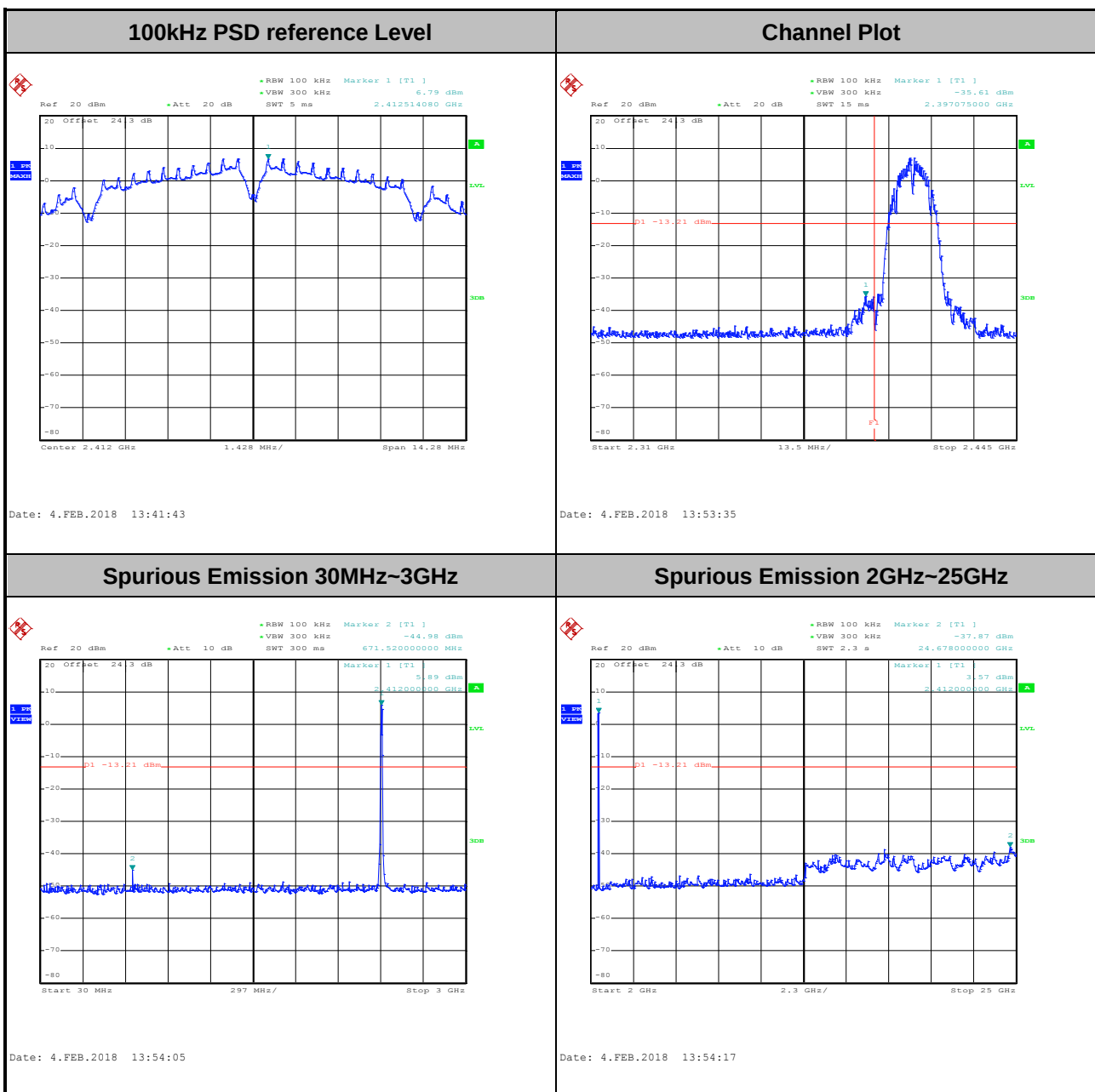


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	White Kin	Temperature :	21~25°C
		Relative Humidity :	51~54%

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

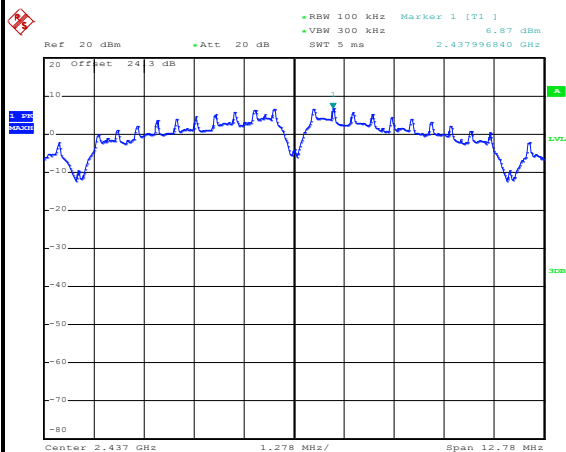
Test Mode :	802.11b	Test Channel :	01
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Test Mode :	802.11b	Test Channel :	06
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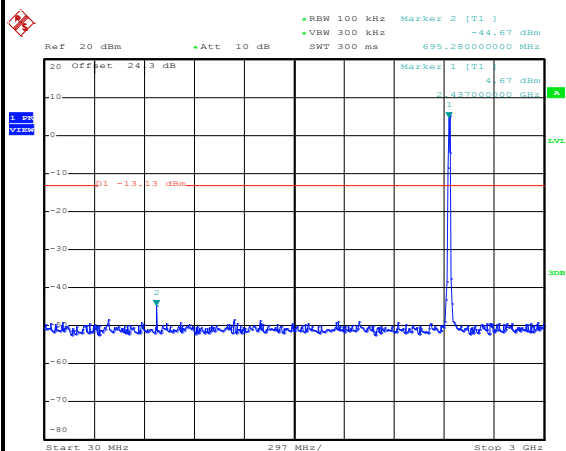
100kHz PSD reference Level



Date: 4.FEB.2018 13:47:05

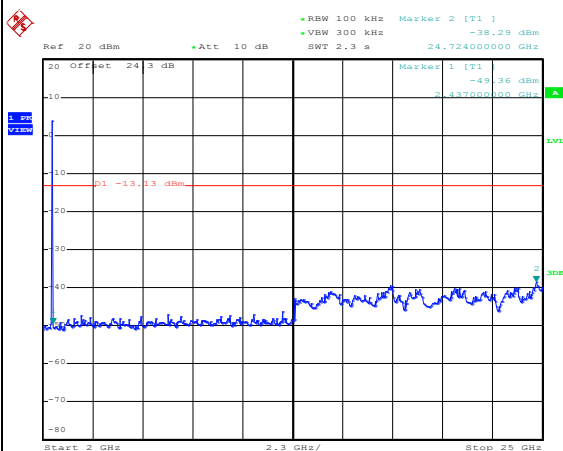
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 4.FEB.2018 13:49:46

Spurious Emission 2GHz~25GHz

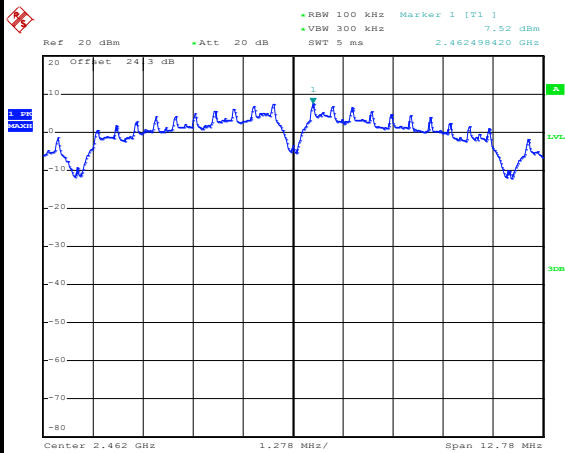


Date: 4.FEB.2018 13:49:58



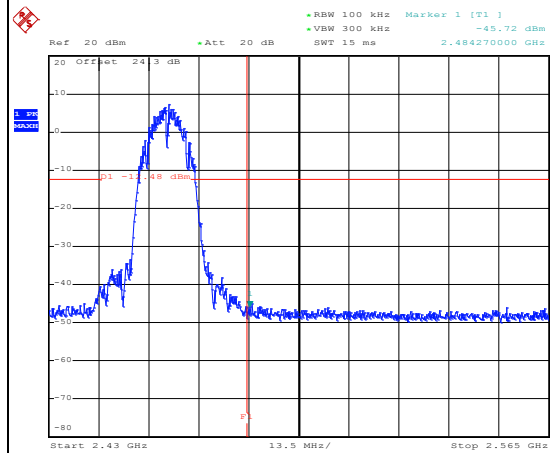
Test Mode :	802.11b	Test Channel :	11
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100kHz PSD reference Level



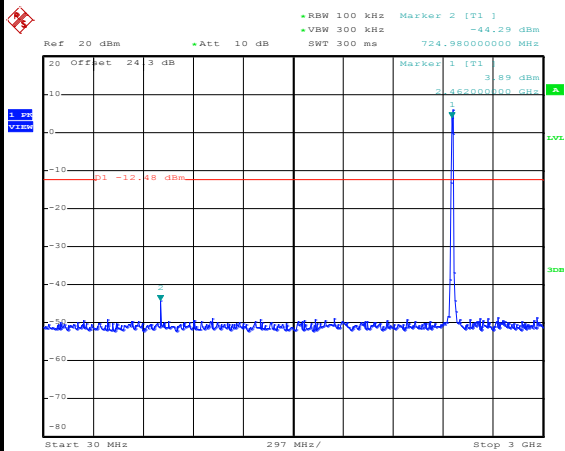
Date: 4.FEB.2018 13:56:35

Channel Plot



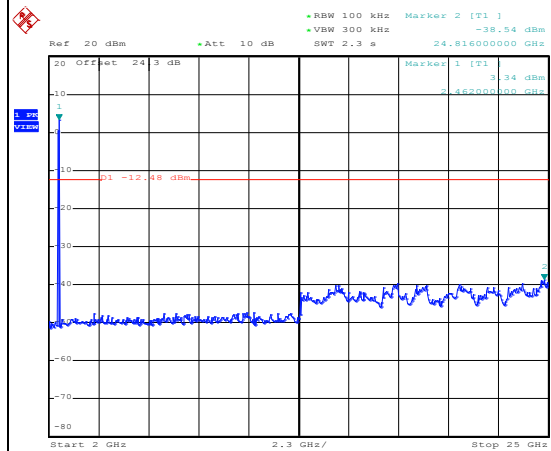
Date: 4.FEB.2018 13:57:22

Spurious Emission 30MHz~3GHz



Date: 4.FEB.2018 13:57:46

Spurious Emission 2GHz~25GHz

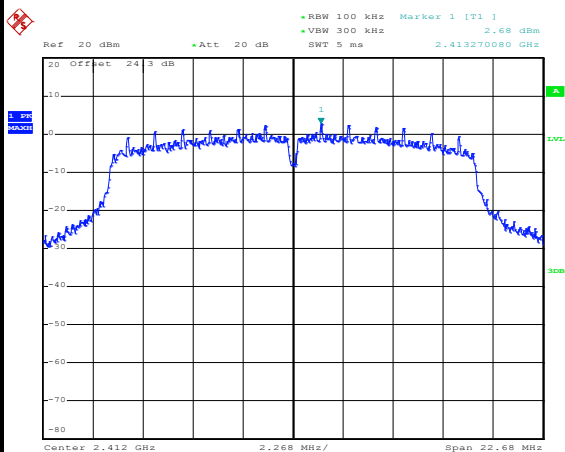


Date: 4.FEB.2018 13:57:58



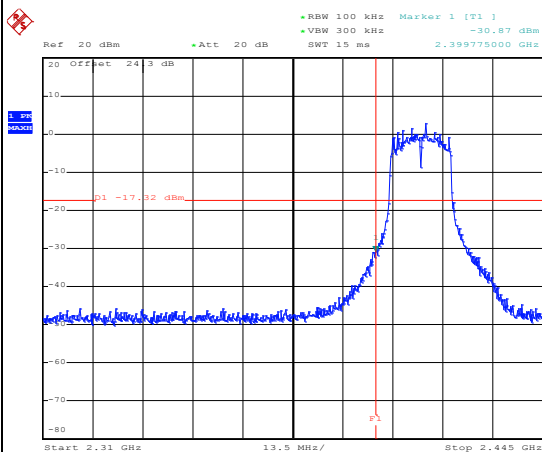
Test Mode :	802.11g	Test Channel :	01
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100kHz PSD reference Level



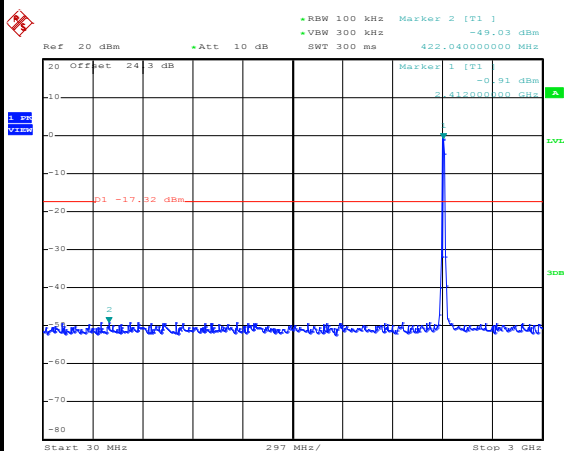
Date: 4.FEB.2018 14:13:00

Channel Plot



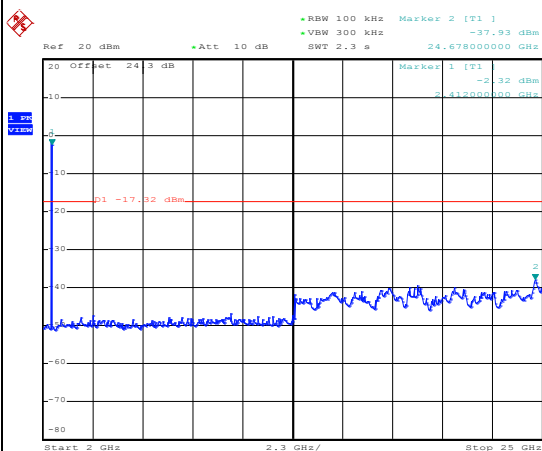
Date: 4.FEB.2018 14:13:17

Spurious Emission 30MHz~3GHz



Date: 4.FEB.2018 14:14:01

Spurious Emission 2GHz~25GHz

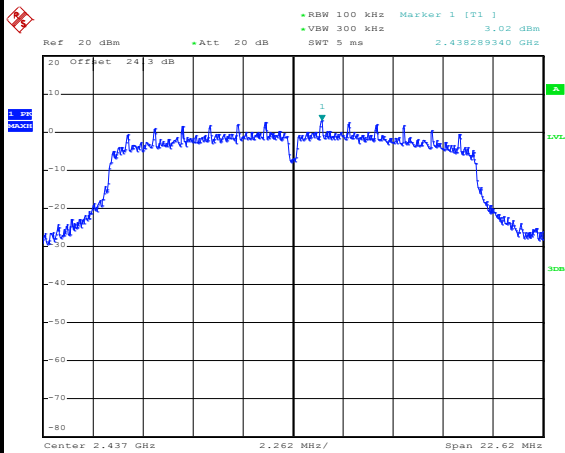


Date: 4.FEB.2018 14:14:13



Test Mode :	802.11g	Test Channel :	06
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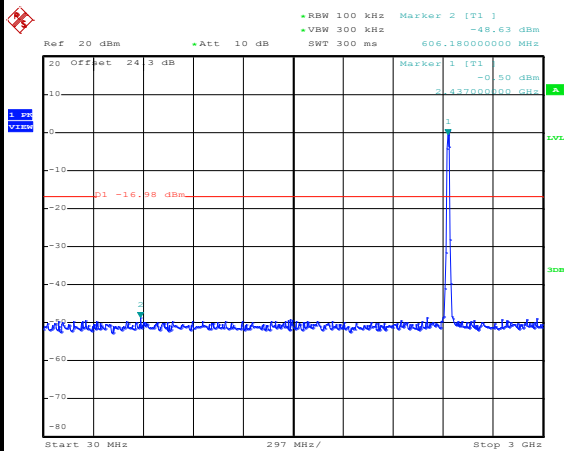
100kHz PSD reference Level



Date: 4.FEB.2018 14:17:25

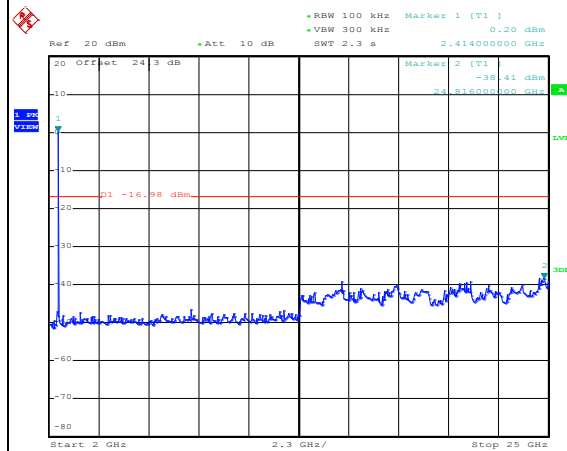
Channel Plot

Spurious Emission 30MHz~3GHz



Date: 4.FEB.2018 14:17:56

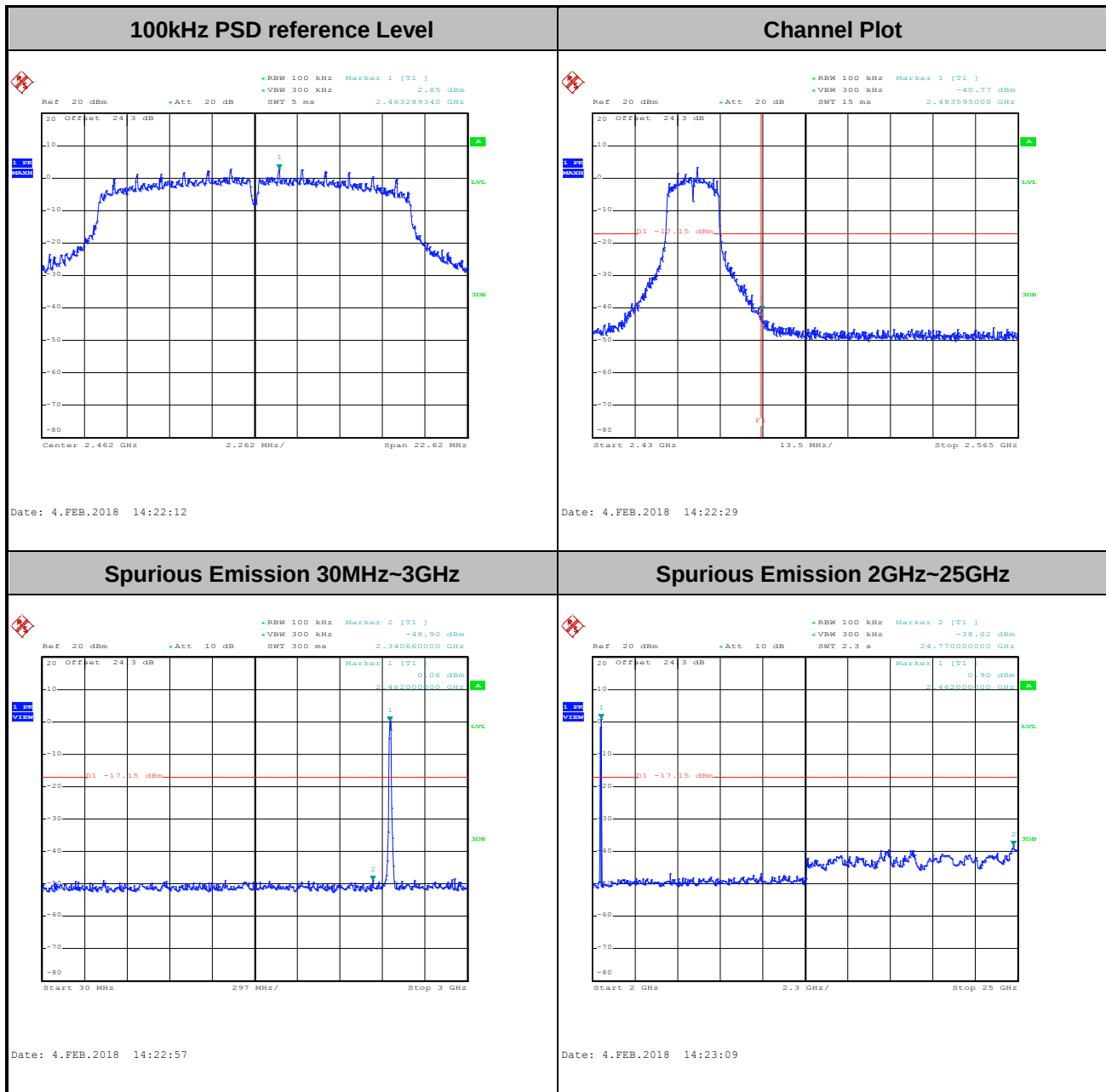
Spurious Emission 2GHz~25GHz



Date: 4.FEB.2018 14:18:43



Test Mode :	802.11g	Test Channel :	11
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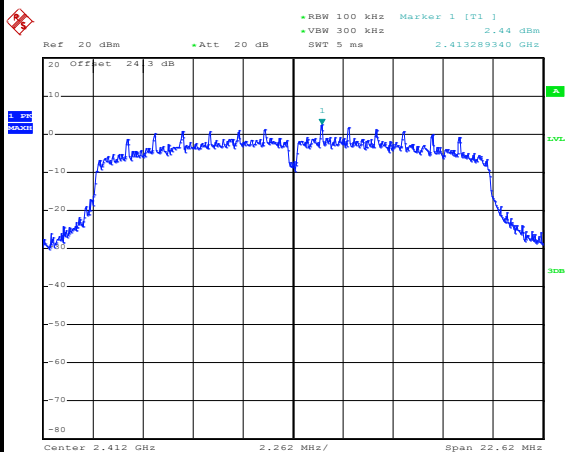




Test Mode : 802.11n HT20

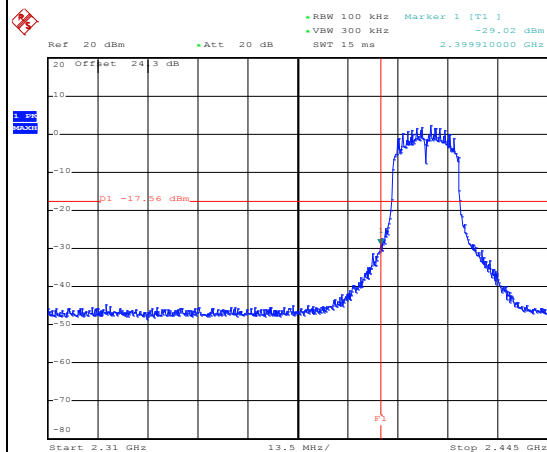
Test Channel : 01

100kHz PSD reference Level



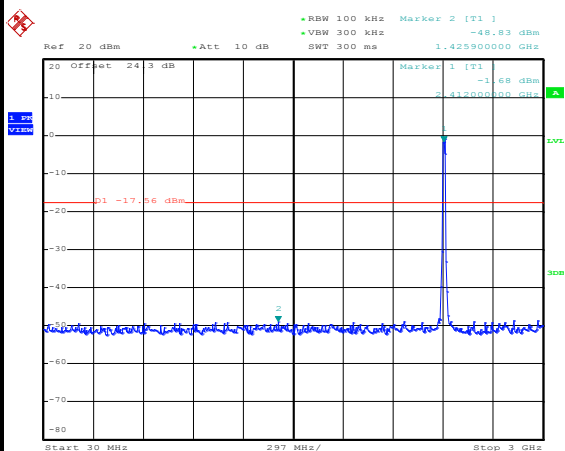
Date: 4.FEB.2018 14:25:51

Channel Plot



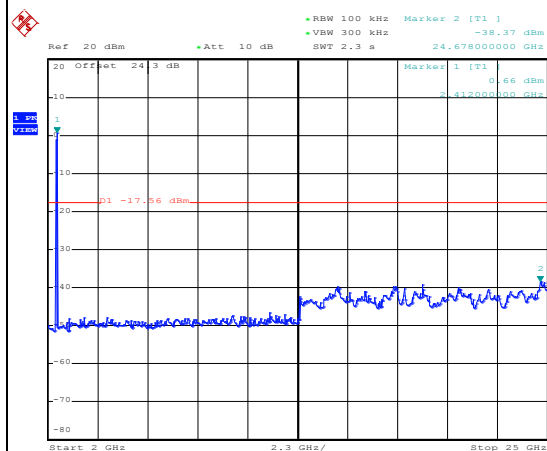
Date: 4.FEB.2018 14:27:28

Spurious Emission 30MHz~3GHz



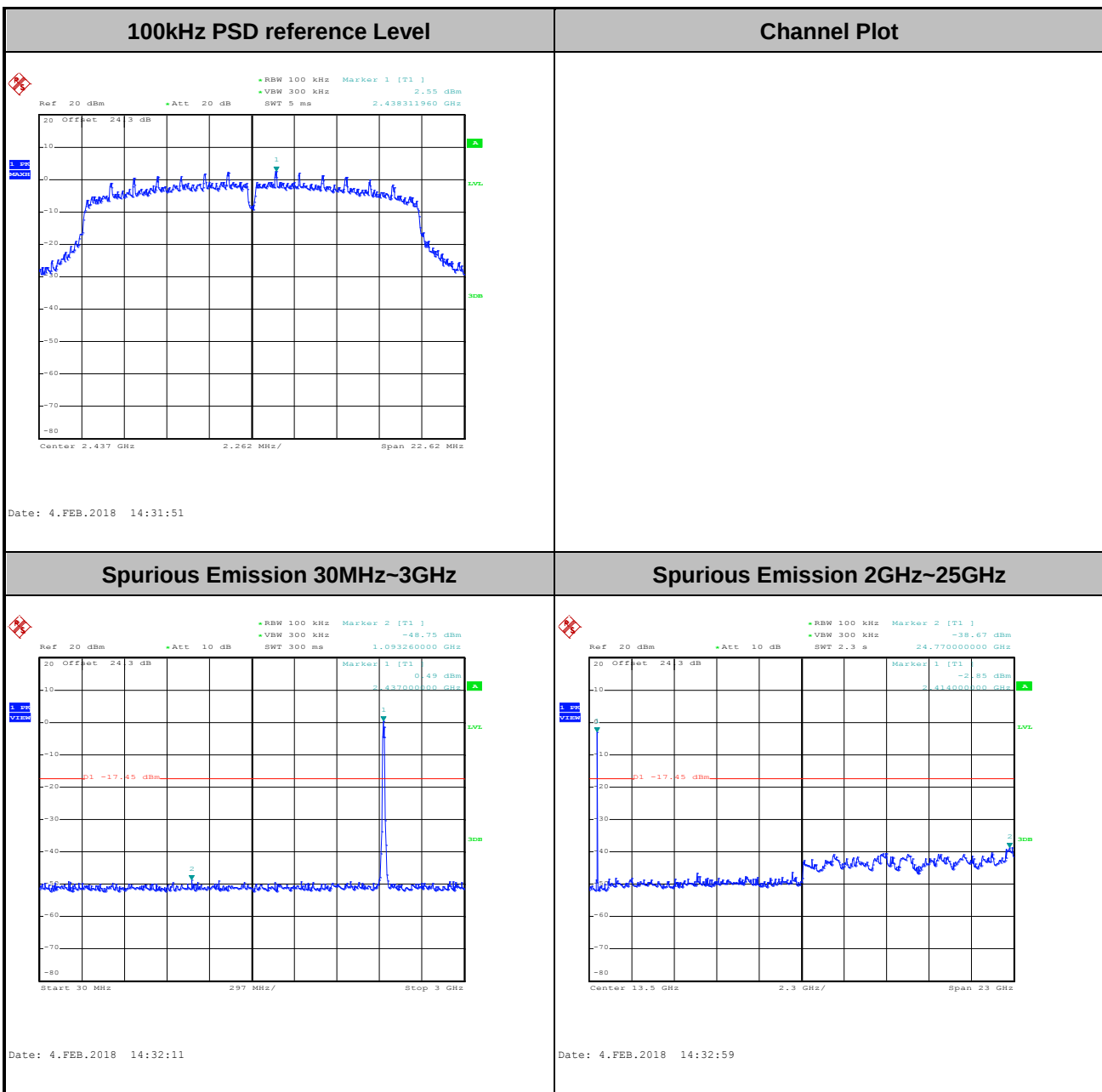
Date: 4.FEB.2018 14:28:44

Spurious Emission 2GHz~25GHz



Date: 4.FEB.2018 14:28:56

Test Mode :	802.11n HT20	Test Channel :	06
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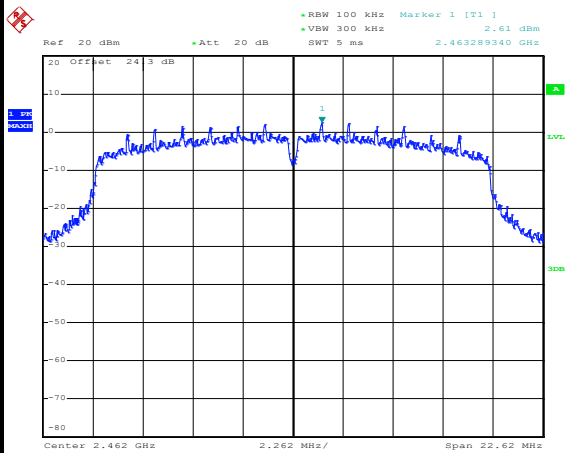




Test Mode : 802.11n HT20

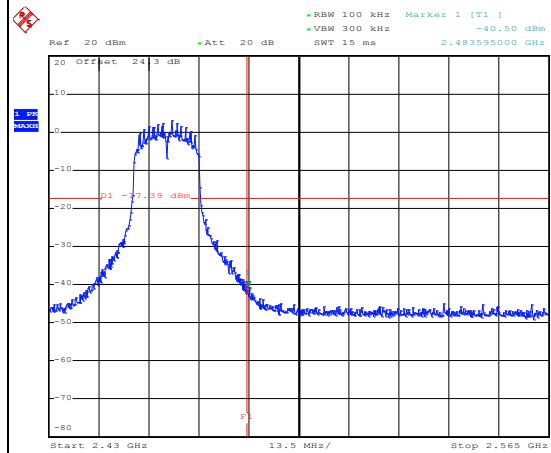
Test Channel : 11

100kHz PSD reference Level



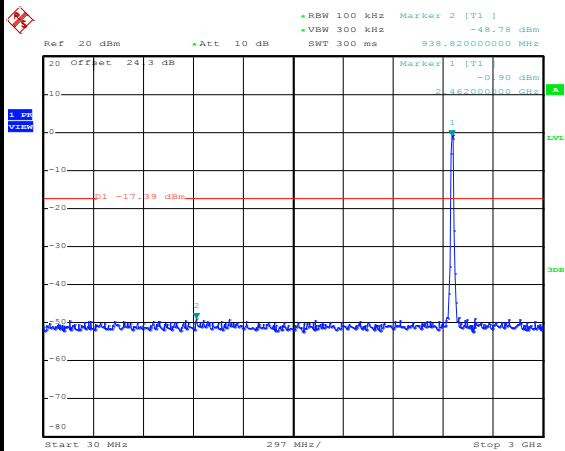
Date: 4.FEB.2018 14:36:38

Channel Plot



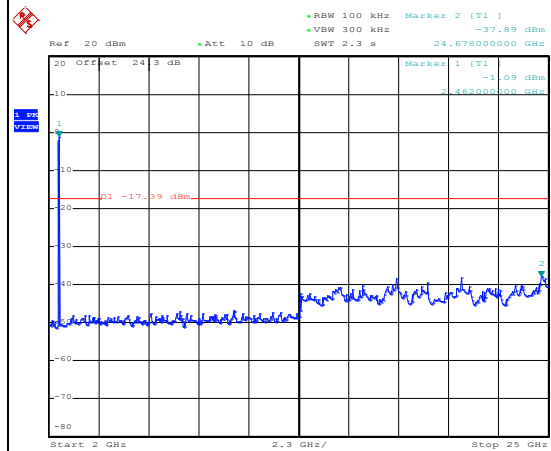
Date: 4.FEB.2018 14:37:57

Spurious Emission 30MHz~3GHz



Date: 4.FEB.2018 14:38:56

Spurious Emission 2GHz~25GHz



Date: 4.FEB.2018 14:39:08

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

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

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

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

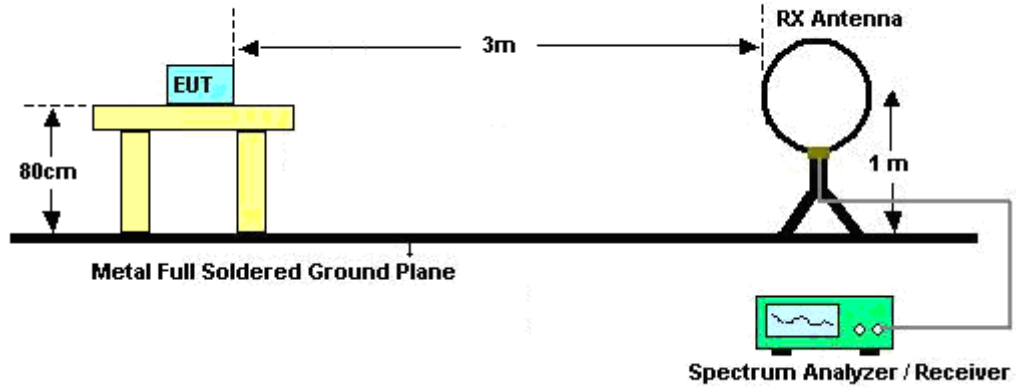
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.

For average measurement:

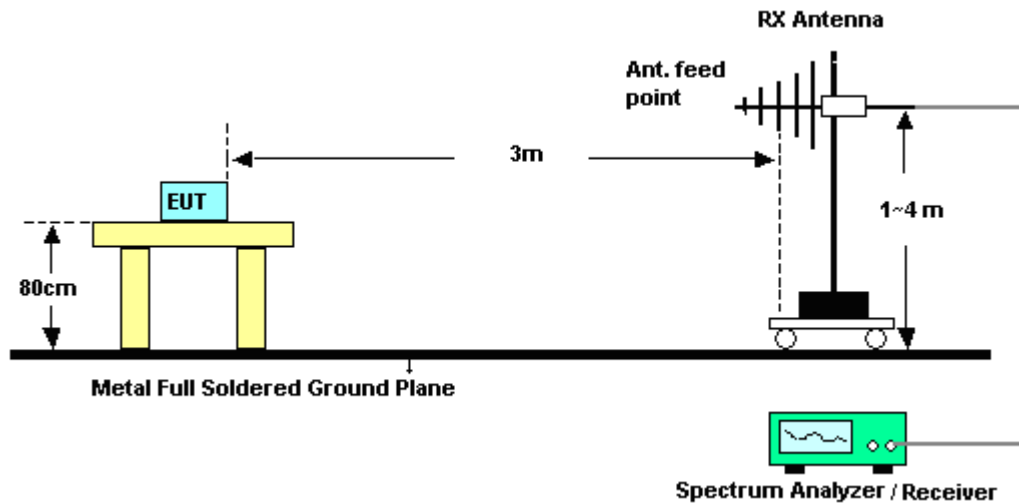
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

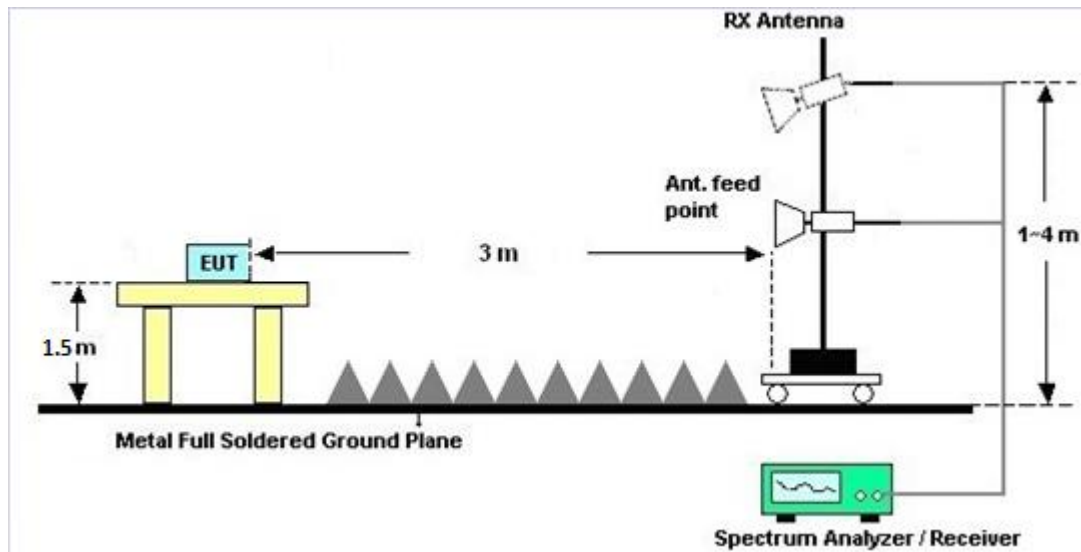
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C and D.

3.5.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C and D.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

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

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

*Decreases with the logarithm of the frequency.

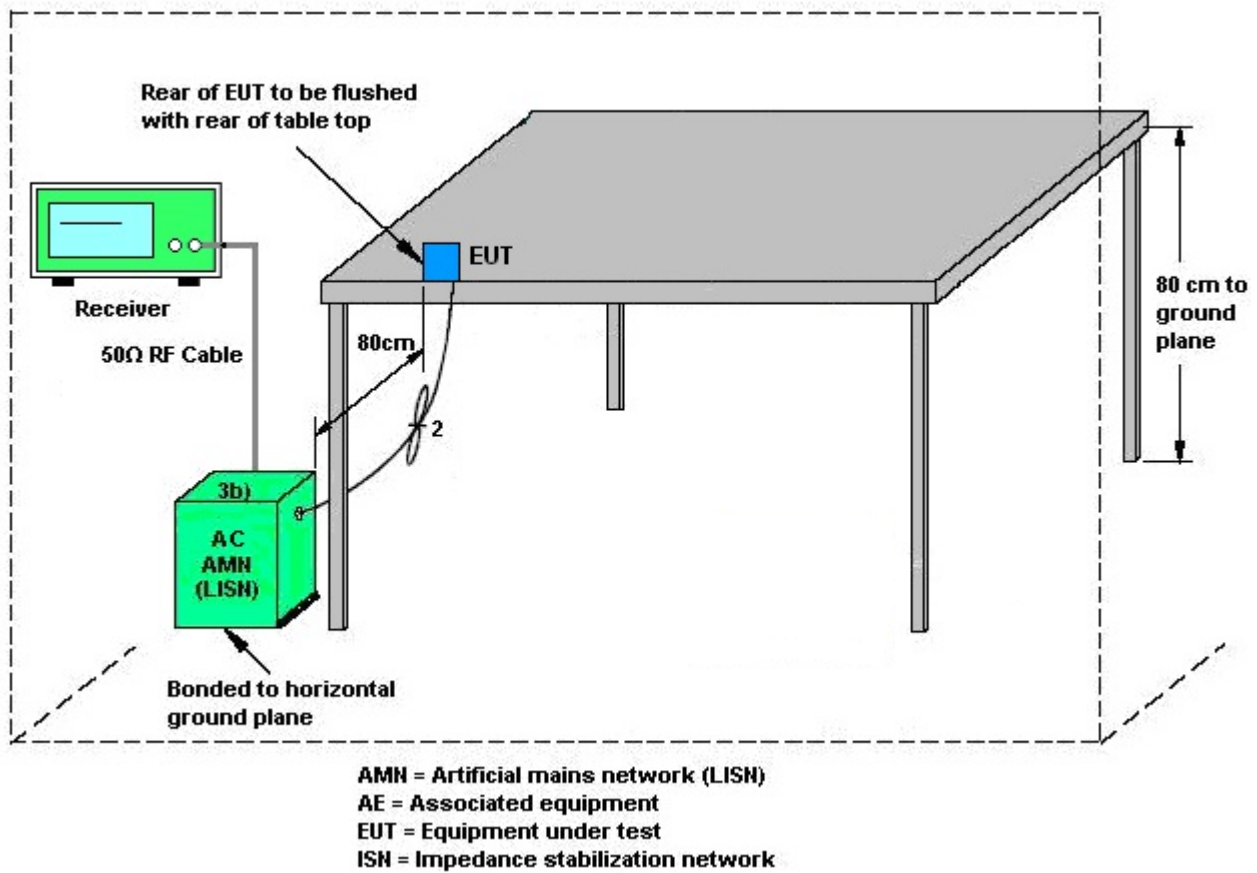
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. The use of a permanently attached Antenna or of an Antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

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	1240001	N/A	Sep. 07, 2017	Jan. 26, 2018~ Feb. 04, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz	Sep. 07, 2017	Jan. 26, 2018~ Feb. 04, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 20, 2017	Jan. 26, 2018~ Feb. 04, 2018	Jun. 19, 2018	Conducted (TH02-HY)
Temperature Chamber	ESPEC	SH-641	92013720	-40℃ ~90℃	Aug. 28, 2017	Jan. 26, 2018~ Feb. 04, 2018	Aug. 27, 2018	Conducted (TH05-HY)
Programmable Power Supply	GW Instek	PSS-2005	EL890094	1V~20V 0.5A~5A	Oct. 16, 2017	Jan. 26, 2018~ Feb. 04, 2018	Oct. 15, 2018	Conducted (TH05-HY)
AC Power Source	AC POWER	AFC-500W	F1040700 11	50Hz~60Hz	Dec. 01, 2016	Jan. 26, 2018~ Feb. 04, 2018	Nov. 30, 2018	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Apr. 17, 2018 ~ Apr. 20, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	3.6GHz	Dec. 08, 2017	Apr. 17, 2018 ~ Apr. 20, 2018	Dec. 07, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Apr. 17, 2018 ~ Apr. 20, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Apr. 17, 2018 ~ Apr. 20, 2018	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Jan. 03, 2018	Apr. 17, 2018 ~ Apr. 20, 2018	Jan. 02, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Jan. 03, 2018	Apr. 17, 2018 ~ Apr. 20, 2018	Jan. 02, 2019	Conduction (CO05-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY24971/4,MY2865 5/4	9KHz~30MHz	Jan. 02, 2018	Mar. 14, 2018~ Apr. 03, 2018	Jan. 01, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28417/4, MY24971/4,MY2865 5/4	30MHz~1GHz	Jan. 02, 2018	Mar. 14, 2018~ Apr. 03, 2018	Jan. 01, 2019	Radiation (03CH11-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28417/4, MY24971/4,MY2865 5/4	1GHz~26GHz	Jan. 02, 2018	Mar. 14, 2018~ Apr. 03, 2018	Jan. 01, 2019	Radiation (03CH11-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Mar. 14, 2018~ Apr. 03, 2018	Jul. 17, 2018	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Jan. 16, 2018	Mar. 14, 2018~ Apr. 03, 2018	Jan. 15, 2019	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N0602	30MHz~1GHz	Oct. 14, 2017	Mar. 14, 2018~ Apr. 03, 2018	Oct. 13, 2018	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 16, 2017	Mar. 14, 2018~ Apr. 03, 2018	Oct. 15, 2018	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Mar. 14, 2018~ Apr. 03, 2018	Nov. 22, 2018	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Jan. 16, 2018	Mar. 14, 2018~ Apr. 03, 2018	Jan. 15, 2020	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 19, 2017	Mar. 14, 2018~ Apr. 03, 2018	Oct. 18, 2018	Radiation (03CH11-HY)
Filter	Wainwright	WHKX12-2700-3000-18000-60SS	SN3	2.7G High Pass	Sep. 18, 2017	Mar. 14, 2018~ Apr. 03, 2018	Sep. 17, 2018	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Mar. 14, 2018~ Apr. 03, 2018	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Mar. 14, 2018~ Apr. 03, 2018	N/A	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 27, 2017	Mar. 14, 2018~ Apr. 03, 2018	Nov. 26, 2018	Radiation (03CH11-HY)
Filter	Wainwright	WLK4-1000-1530-8000-40SS	SN11	1G Low Pass	Sep. 18, 2017	Mar. 14, 2018~ Apr. 03, 2018	Sep. 17, 2018	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-00101800-30-10P	1590074	1GHz~18GHz	May 22, 2017	Mar. 14, 2018~ Apr. 03, 2018	May 21, 2018	Radiation (03CH11-HY)

5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.70
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.50
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	White Lin	Temperature:	21~25	°C
Test Date:	2018/01/26~2018/02/04	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	14.30	9.52	0.50	Pass
11b	1Mbps	1	6	2437	14.15	8.52	0.50	Pass
11b	1Mbps	1	11	2462	14.10	8.52	0.50	Pass
11g	6Mbps	1	1	2412	17.55	15.12	0.50	Pass
11g	6Mbps	1	6	2437	17.35	15.08	0.50	Pass
11g	6Mbps	1	11	2462	17.60	15.08	0.50	Pass
HT20	MCS0	1	1	2412	18.50	15.08	0.50	Pass
HT20	MCS0	1	6	2437	18.50	15.08	0.50	Pass
HT20	MCS0	1	11	2462	18.50	15.08	0.50	Pass

TEST RESULTS DATA
Peak Power Table

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
11b	1Mbps	1	1	2412	17.68	30.00	2.08	19.76	36.00	Pass
11b	1Mbps	1	6	2437	17.82	30.00	2.08	19.90	36.00	Pass
11b	1Mbps	1	11	2462	17.92	30.00	2.08	20.00	36.00	Pass
11g	6Mbps	1	1	2412	22.18	30.00	2.08	24.26	36.00	Pass
11g	6Mbps	1	6	2437	22.45	30.00	2.08	24.53	36.00	Pass
11g	6Mbps	1	11	2462	22.46	30.00	2.08	24.54	36.00	Pass
HT20	MCS0	1	1	2412	22.68	30.00	2.08	24.76	36.00	Pass
HT20	MCS0	1	6	2437	22.70	30.00	2.08	24.78	36.00	Pass
HT20	MCS0	1	11	2462	22.73	30.00	2.08	24.81	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

2.4GHz Band						
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
11b	1Mbps	1	1	2412	0.00	15.21
11b	1Mbps	1	6	2437	0.00	15.23
11b	1Mbps	1	11	2462	0.00	15.26
11g	6Mbps	1	1	2412	0.12	13.50
11g	6Mbps	1	6	2437	0.12	13.52
11g	6Mbps	1	11	2462	0.12	13.55
HT20	MCS0	1	1	2412	0.16	12.94
HT20	MCS0	1	6	2437	0.16	12.98
HT20	MCS0	1	11	2462	0.16	12.99

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	-6.60	2.08	8.00	Pass
11b	1Mbps	1	6	2437	-7.10	2.08	8.00	Pass
11b	1Mbps	1	11	2462	-7.25	2.08	8.00	Pass
11g	6Mbps	1	1	2412	-11.98	2.08	8.00	Pass
11g	6Mbps	1	6	2437	-11.65	2.08	8.00	Pass
11g	6Mbps	1	11	2462	-11.23	2.08	8.00	Pass
HT20	MCS0	1	1	2412	-11.32	2.08	8.00	Pass
HT20	MCS0	1	6	2437	-12.07	2.08	8.00	Pass
HT20	MCS0	1	11	2462	-11.59	2.08	8.00	Pass



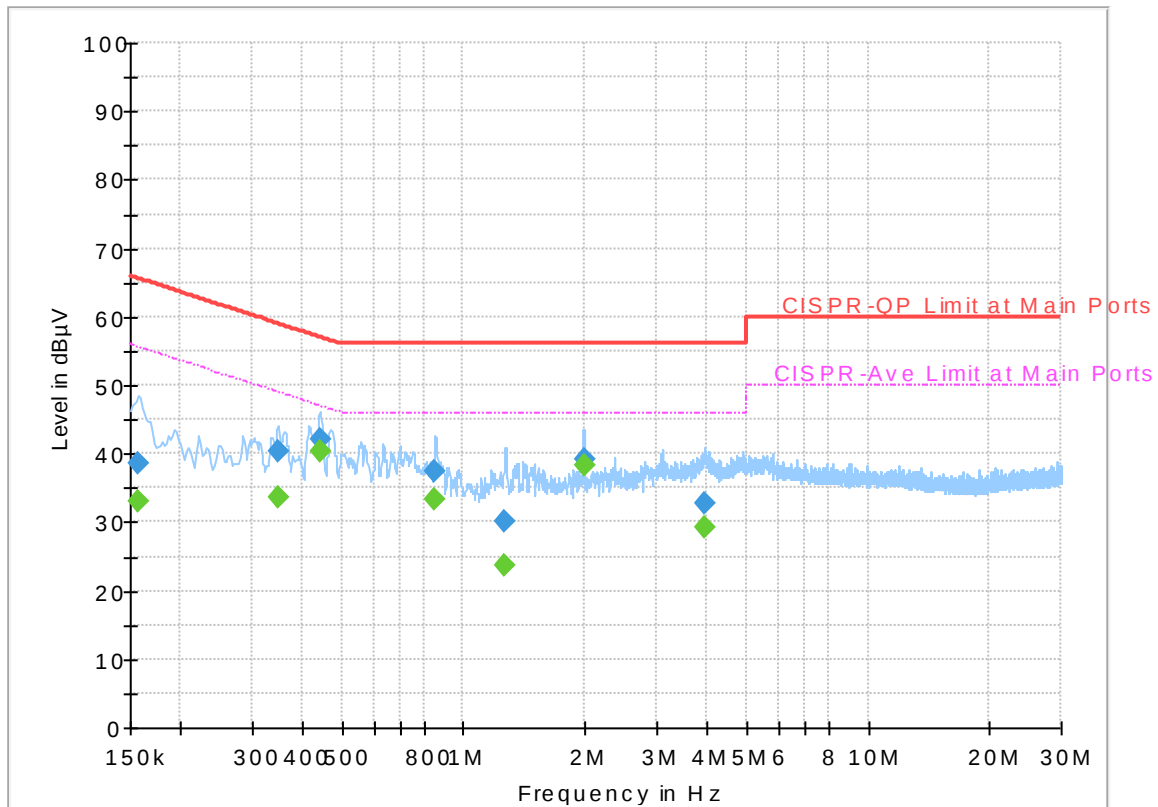
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Blue Lan	Temperature :	25~26℃
		Relative Humidity :	45~46%

EUT Information

Report NO : 811720
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



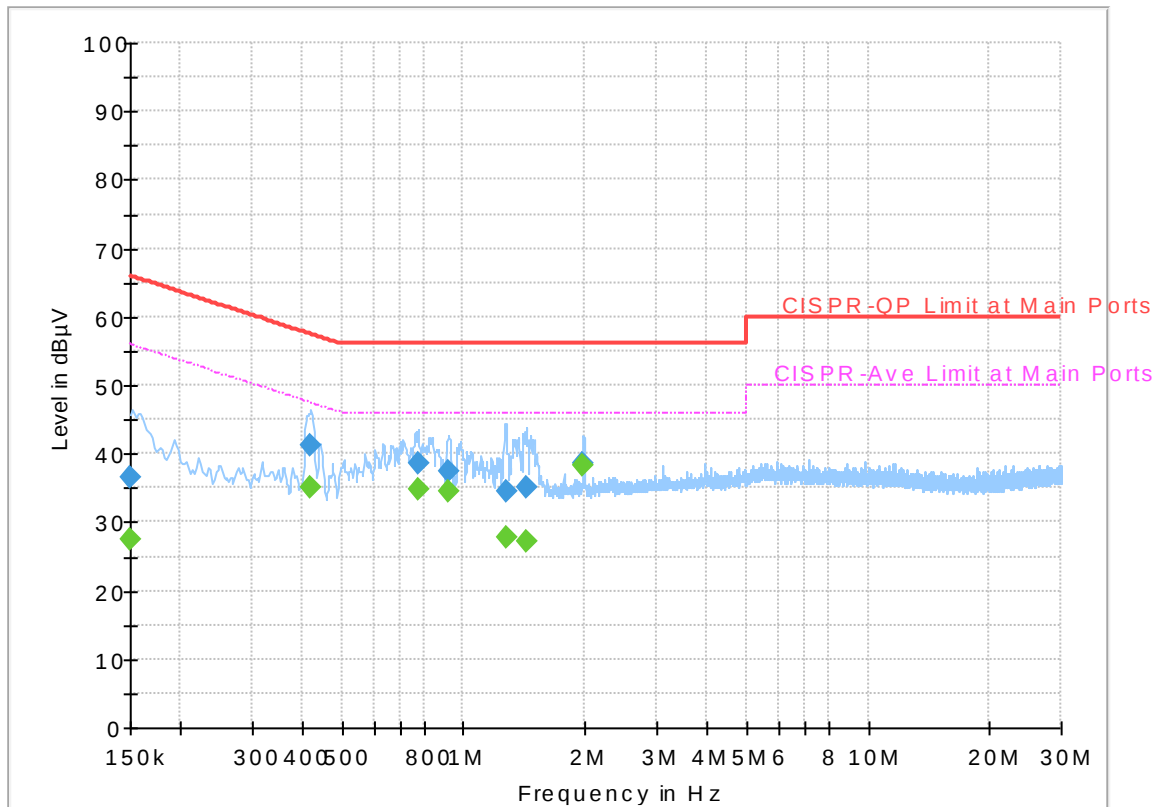
Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	---	32.98	55.63	22.65	L1	OFF	19.5
0.156750	38.70	---	65.63	26.93	L1	OFF	19.5
0.348000	---	33.62	49.01	15.39	L1	OFF	19.5
0.348000	40.39	---	59.01	18.62	L1	OFF	19.5
0.442500	---	40.30	47.02	6.72	L1	OFF	19.5
0.442500	42.23	---	57.02	14.79	L1	OFF	19.5
0.852000	---	33.29	46.00	12.71	L1	OFF	19.6
0.852000	37.30	---	56.00	18.70	L1	OFF	19.6
1.268250	---	23.75	46.00	22.25	L1	OFF	19.6
1.268250	30.20	---	56.00	25.80	L1	OFF	19.6
1.981500	---	38.32	46.00	7.68	L1	OFF	19.6
1.981500	39.06	---	56.00	16.94	L1	OFF	19.6
3.959250	---	29.30	46.00	16.70	L1	OFF	19.6
3.959250	32.68	---	56.00	23.32	L1	OFF	19.6

EUT Information

Report NO : 811720
Test Mode : Mode 2
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	27.60	56.00	28.40	N	OFF	19.5
0.150000	36.49	---	66.00	29.51	N	OFF	19.5
0.420000	---	35.08	47.45	12.37	N	OFF	19.5
0.420000	41.25	---	57.45	16.20	N	OFF	19.5
0.773250	---	34.92	46.00	11.08	N	OFF	19.5
0.773250	38.73	---	56.00	17.27	N	OFF	19.5
0.917250	---	34.36	46.00	11.64	N	OFF	19.5
0.917250	37.57	---	56.00	18.43	N	OFF	19.5
1.270500	---	27.85	46.00	18.15	N	OFF	19.5
1.270500	34.45	---	56.00	21.55	N	OFF	19.5
1.428000	---	27.20	46.00	18.80	N	OFF	19.5
1.428000	35.17	---	56.00	20.83	N	OFF	19.5
1.979250	---	38.44	46.00	7.56	N	OFF	19.6
1.979250	38.64	---	56.00	17.36	N	OFF	19.6



Appendix C. Radiated Spurious Emission

Test Engineer :	Ken Wu, Jacky Hung, and Hao Hsu	Temperature :	22~24°C
		Relative Humidity :	48~52%



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	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		2387.595	55.08	-18.92	74	45.26	27.13	16.29	33.6	367	26	P	H
		2387.28	46.94	-7.06	54	37.12	27.13	16.29	33.6	367	26	A	H
	*	2412	107.37	-	-	97.48	27.18	16.3	33.59	367	26	P	H
	*	2412	104.2	-	-	94.31	27.18	16.3	33.59	367	26	A	H
													H
													H
		2385.81	54.56	-19.44	74	44.74	27.13	16.29	33.6	251	264	P	V
		2387.28	46.45	-7.55	54	36.63	27.13	16.29	33.6	251	264	A	V
	*	2412	107.18	-	-	97.29	27.18	16.3	33.59	251	264	P	V
	*	2412	104.03	-	-	94.14	27.18	16.3	33.59	251	264	A	V
													V
													V
802.11b CH 06 2437MHz		2373.04	52.49	-21.51	74	42.78	27.09	16.22	33.6	312	34	P	H
		2389.68	42.37	-11.63	54	32.55	27.13	16.29	33.6	312	34	A	H
	*	2437	107.4	-	-	97.41	27.27	16.31	33.59	312	34	P	H
	*	2437	104.24	-	-	94.25	27.27	16.31	33.59	312	34	A	H
		2484.96	52.21	-21.79	74	42.11	27.36	16.32	33.58	312	34	P	H
		2489.44	41.99	-12.01	54	31.85	27.4	16.32	33.58	312	34	A	H
		2374.48	52.87	-21.13	74	43.16	27.09	16.22	33.6	217	272	P	V
		2390	42.26	-11.74	54	32.43	27.13	16.29	33.59	217	272	A	V
	*	2437	106.91	-	-	96.92	27.27	16.31	33.59	217	272	P	V
	*	2437	103.76	-	-	93.77	27.27	16.31	33.59	217	272	A	V
		2496.56	52.39	-21.61	74	42.24	27.4	16.32	33.57	217	272	P	V
		2484	42.12	-11.88	54	32.03	27.36	16.31	33.58	217	272	A	V



802.11b CH 11 2462MHz	*	2462	107.29	-	-	97.25	27.31	16.31	33.58	341	38	P	H
	*	2462	104.14	-	-	94.1	27.31	16.31	33.58	341	38	A	H
		2485.56	54.41	-19.59	74	44.31	27.36	16.32	33.58	341	38	P	H
		2487.32	44.98	-9.02	54	34.88	27.36	16.32	33.58	341	38	A	H
													H
													H
	*	2462	107.3	-	-	97.26	27.31	16.31	33.58	220	282	P	V
	*	2462	104.11	-	-	94.07	27.31	16.31	33.58	220	282	A	V
		2494.16	53.82	-20.18	74	43.67	27.4	16.32	33.57	220	282	P	V
		2487.24	44.58	-9.42	54	34.48	27.36	16.32	33.58	220	282	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		3615	45.9	-28.1	74	66.18	28.87	8.65	57.8	100	0	P	H
		3900	42.99	-31.01	74	62.56	29.51	8.95	58.03	100	0	P	H
		4200	52.75	-21.25	74	71.76	30.1	8.83	57.94	100	115	P	H
		4200	41.69	-12.31	54	60.7	30.1	8.83	57.94	100	115	A	H
		4500	48.94	-25.06	74	66.83	30.7	9.11	57.7	100	0	P	H
		4824	40	-34	74	55.93	31.29	10.02	57.24	100	0	P	H
		5100	45.04	-28.96	74	60.1	31.7	10.02	56.78	100	0	P	H
		5400	52.42	-21.58	74	66.39	32	10.15	56.12	100	295	P	H
		5400	41.57	-12.43	54	55.54	32	10.15	56.12	100	295	A	H
													H
													H
													H
													H
		3615	45.54	-28.46	74	65.82	28.87	8.65	57.8	100	0	P	V
		3900	49.92	-24.08	74	69.49	29.51	8.95	58.03	100	0	P	V
		3990	48.18	-25.82	74	67.41	29.7	9.17	58.1	100	0	P	V
		4200	58.61	-15.39	74	77.62	30.1	8.83	57.94	300	56	P	V
		4200	47.21	-6.79	54	66.22	30.1	8.83	57.94	300	56	A	V
		4500	54.21	-19.79	74	72.1	30.7	9.11	57.7	300	19	P	V
		4500	41.61	-12.39	54	59.5	30.7	9.11	57.7	300	19	A	V
		4824	39.74	-34.26	74	55.67	31.29	10.02	57.24	100	0	P	V
		5100	52.25	-21.75	74	67.31	31.7	10.02	56.78	200	37	P	V
		5100	39.64	-14.36	54	54.7	31.7	10.02	56.78	200	37	A	V
		5400	54.85	-19.15	74	68.82	32	10.15	56.12	100	7	P	V
		5400	44.33	-9.67	54	58.3	32	10.15	56.12	100	7	A	V
													V
802.11b CH 06 2437MHz		3660	44.59	-29.41	74	64.79	28.94	8.68	57.82	100	0	P	H
		3900	44.72	-29.28	74	64.29	29.51	8.95	58.03	100	0	P	H
		4200	49.86	-24.14	74	68.87	30.1	8.83	57.94	100	0	P	H
		4500	49.33	-24.67	74	67.22	30.7	9.11	57.7	100	0	P	H



		4874	39.86	-34.14	74	55.66	31.38	9.99	57.17	100	0	P	H
		5100	45.12	-28.88	74	60.18	31.7	10.02	56.78	100	0	P	H
		5400	53.72	-20.28	74	67.69	32	10.15	56.12	100	295	P	H
		5400	41.58	-12.42	54	55.55	32	10.15	56.12	100	295	A	H
		7311	48.88	-25.12	74	58.1	36.28	11.77	57.27	100	0	P	H
		3660	45.11	-28.89	74	65.31	28.94	8.68	57.82	100	0	P	V
		3900	49.51	-24.49	74	69.08	29.51	8.95	58.03	100	0	P	V
		3990	48.02	-25.98	74	67.25	29.7	9.17	58.1	100	0	P	V
		4200	58.51	-15.49	74	77.52	30.1	8.83	57.94	300	56	P	V
		4200	47.2	-6.8	54	66.21	30.1	8.83	57.94	300	56	A	V
		4500	54.21	-19.79	74	72.1	30.7	9.11	57.7	300	19	P	V
		4500	41.67	-12.33	54	59.56	30.7	9.11	57.7	300	19	A	V
		4874	39.23	-34.77	74	55.03	31.38	9.99	57.17	100	0	P	V
		5100	51.07	-22.93	74	66.13	31.7	10.02	56.78	200	37	P	V
		5100	39.55	-14.45	54	54.61	31.7	10.02	56.78	200	37	A	V
		5400	55.18	-18.82	74	69.15	32	10.15	56.12	100	7	P	V
		5400	44.34	-9.66	54	58.31	32	10.15	56.12	100	7	A	V
		7311	46.59	-27.41	74	55.81	36.28	11.77	57.27	100	0	P	V
802.11b CH 11 2462MHz		3690	44.91	-29.09	74	65.06	29.02	8.68	57.85	100	0	P	H
		3900	42.58	-31.42	74	62.15	29.51	8.95	58.03	100	0	P	H
		4200	51.39	-22.61	74	70.4	30.1	8.83	57.94	100	115	P	H
		4200	41.69	-12.31	54	60.7	30.1	8.83	57.94	100	115	A	H
		4500	46.99	-27.01	74	64.88	30.7	9.11	57.7	100	0	P	H
		4924	40.29	-33.71	74	55.92	31.48	9.99	57.1	100	0	P	H
		5100	45.75	-28.25	74	60.81	31.7	10.02	56.78	100	0	P	H
		5400	51.01	-22.99	74	64.98	32	10.15	56.12	100	295	P	H
		5400	41.56	-12.44	54	55.53	32	10.15	56.12	100	295	A	H
		7386	47.1	-26.9	74	56.33	36.47	11.68	57.38	100	0	P	H
													H
													H



													H
		3690	44.76	-29.24	74	64.91	29.02	8.68	57.85	100	0	P	V
		3900	49.53	-24.47	74	69.1	29.51	8.95	58.03	100	0	P	V
		3990	48.22	-25.78	74	67.45	29.7	9.17	58.1	100	0	P	V
		4200	56.1	-17.9	74	75.11	30.1	8.83	57.94	300	56	P	V
		4200	47.19	-6.81	54	66.2	30.1	8.83	57.94	300	56	A	V
		4500	54.17	-19.83	74	72.06	30.7	9.11	57.7	300	19	P	V
		4500	41.71	-12.29	54	59.6	30.7	9.11	57.7	300	19	A	V
		4924	40.69	-33.31	74	56.32	31.48	9.99	57.1	100	0	P	V
		5100	50.91	-23.09	74	65.97	31.7	10.02	56.78	200	37	P	V
		5100	39.59	-14.41	54	54.65	31.7	10.02	56.78	200	37	A	V
		5400	54.06	-19.94	74	68.03	32	10.15	56.12	100	7	P	V
		5400	44.27	-9.73	54	58.24	32	10.15	56.12	100	7	A	V
		7386	46.01	-27.99	74	55.24	36.47	11.68	57.38	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.905	60.28	-13.72	74	50.45	27.13	16.29	33.59	358	36	P	H
		2389.905	50.46	-3.54	54	40.63	27.13	16.29	33.59	358	36	A	H
	*	2412	107.54	-	-	97.65	27.18	16.3	33.59	358	36	P	H
	*	2412	99.93	-	-	90.04	27.18	16.3	33.59	358	36	A	H
													H
													H
		2389.695	60.09	-13.91	74	50.27	27.13	16.29	33.6	222	297	P	V
		2389.695	49.76	-4.24	54	39.94	27.13	16.29	33.6	222	297	A	V
	*	2412	106.72	-	-	96.83	27.18	16.3	33.59	222	297	P	V
	*	2412	99.01	-	-	89.12	27.18	16.3	33.59	222	297	A	V
													V
													V
802.11g CH 06 2437MHz		2383.28	52.46	-21.54	74	42.68	27.09	16.29	33.6	312	33	P	H
		2387.76	43.15	-10.85	54	33.33	27.13	16.29	33.6	312	33	A	H
	*	2437	107.85	-	-	97.86	27.27	16.31	33.59	312	33	P	H
	*	2437	100.34	-	-	90.35	27.27	16.31	33.59	312	33	A	H
		2488.08	52.31	-21.69	74	42.17	27.4	16.32	33.58	312	33	P	H
		2484.56	43.09	-10.91	54	32.99	27.36	16.32	33.58	312	33	A	H
		2330	51.94	-22.06	74	42.45	26.95	16.15	33.61	216	272	P	V
		2389.36	42.96	-11.04	54	33.14	27.13	16.29	33.6	216	272	A	V
	*	2437	107.1	-	-	97.11	27.27	16.31	33.59	216	272	P	V
	*	2437	99.59	-	-	89.6	27.27	16.31	33.59	216	272	A	V
		2491.36	52.43	-21.57	74	42.29	27.4	16.32	33.58	216	272	P	V
		2483.92	43.16	-10.84	54	33.07	27.36	16.31	33.58	216	272	A	V



802.11g CH 11 2462MHz	*	2462	108.05	-	-	98.01	27.31	16.31	33.58	343	36	P	H
	*	2462	100.33	-	-	90.29	27.31	16.31	33.58	343	36	A	H
		2484.16	63.77	-10.23	74	53.68	27.36	16.31	33.58	343	36	P	H
		2483.52	49.97	-4.03	54	39.88	27.36	16.31	33.58	343	36	A	H
													H
													H
	*	2462	107.35	-	-	97.31	27.31	16.31	33.58	219	278	P	V
	*	2462	99.73	-	-	89.69	27.31	16.31	33.58	219	278	A	V
		2483.6	65.4	-8.6	74	55.31	27.36	16.31	33.58	219	278	P	V
		2483.68	50.04	-3.96	54	39.95	27.36	16.31	33.58	219	278	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		3615	45.61	-28.39	74	65.89	28.87	8.65	57.8	100	0	P	H
		3900	44.68	-29.32	74	64.25	29.51	8.95	58.03	100	0	P	H
		4200	50.39	-23.61	74	69.4	30.1	8.83	57.94	100	115	P	H
		4200	41.29	-12.71	54	60.3	30.1	8.83	57.94	100	115	A	H
		4500	46.76	-27.24	74	64.65	30.7	9.11	57.7	100	0	P	H
		4824	39.7	-34.3	74	55.63	31.29	10.02	57.24	100	0	P	H
		5100	45.53	-28.47	74	60.59	31.7	10.02	56.78	100	0	P	H
		5400	51.28	-22.72	74	65.25	32	10.15	56.12	100	295	P	H
		5400	41.56	-12.44	54	55.53	32	10.15	56.12	100	295	A	H
													H
													H
													H
													H
		3615	46.13	-27.87	74	66.41	28.87	8.65	57.8	100	0	P	V
		3900	49.04	-24.96	74	68.61	29.51	8.95	58.03	100	0	P	V
		3990	46.88	-27.12	74	66.11	29.7	9.17	58.1	100	0	P	V
		4200	58.56	-15.44	74	77.57	30.1	8.83	57.94	300	56	P	V
		4200	47.19	-6.81	54	66.2	30.1	8.83	57.94	300	56	A	V
		4500	54.1	-19.9	74	71.99	30.7	9.11	57.7	300	19	P	V
		4500	41.72	-12.28	54	59.61	30.7	9.11	57.7	300	19	A	V
		4824	40.6	-33.4	74	56.53	31.29	10.02	57.24	100	0	P	V
		5100	51.11	-22.89	74	66.17	31.7	10.02	56.78	200	37	P	V
		5100	39.54	-14.46	54	54.6	31.7	10.02	56.78	200	37	A	V
		5400	54.56	-19.44	74	68.53	32	10.15	56.12	100	7	P	V
		5400	44.34	-9.66	54	58.31	32	10.15	56.12	100	7	A	V
													V
802.11g CH 06 2437MHz		3660	44.98	-29.02	74	65.18	28.94	8.68	57.82	100	0	P	H
		3900	43.09	-30.91	74	62.66	29.51	8.95	58.03	100	0	P	H
		4200	51.86	-22.14	74	70.87	30.1	8.83	57.94	100	115	P	H
		4200	41.49	-12.51	54	60.5	30.1	8.83	57.94	100	115	A	H



		4500	46.93	-27.07	74	64.82	30.7	9.11	57.7	100	0	P	H
		4874	39.8	-34.2	74	55.6	31.38	9.99	57.17	100	0	P	H
		5100	45.84	-28.16	74	60.9	31.7	10.02	56.78	100	0	P	H
		5400	49.95	-24.05	74	63.92	32	10.15	56.12	100	0	P	H
		7311	46.98	-27.02	74	56.2	36.28	11.77	57.27	100	0	P	H
													H
													H
													H
													H
		3660	45.29	-28.71	74	65.49	28.94	8.68	57.82	100	0	P	V
		3900	49.81	-24.19	74	69.38	29.51	8.95	58.03	100	0	P	V
		3990	47.27	-26.73	74	66.5	29.7	9.17	58.1	100	0	P	V
		4200	58.27	-15.73	74	77.28	30.1	8.83	57.94	300	56	P	V
		4200	47.19	-6.81	54	66.2	30.1	8.83	57.94	300	56	A	V
		4500	55.31	-18.69	74	73.2	30.7	9.11	57.7	300	19	P	V
		4500	41.71	-12.29	54	59.6	30.7	9.11	57.7	300	19	A	V
		4874	39.94	-34.06	74	55.74	31.38	9.99	57.17	100	0	P	V
		5100	50	-24	74	65.06	31.7	10.02	56.78	200	37	P	V
		5100	39.57	-14.43	54	54.63	31.7	10.02	56.78	200	37	A	V
		5400	54.73	-19.27	74	68.7	32	10.15	56.12	100	7	P	V
		5400	44.31	-9.69	54	58.28	32	10.15	56.12	100	7	A	V
		7311	44.54	-29.46	74	53.76	36.28	11.77	57.27	100	0	P	V
802.11g CH 11 2462MHz		3690	44.82	-29.18	74	64.97	29.02	8.68	57.85	100	0	P	H
		3900	43.41	-30.59	74	62.98	29.51	8.95	58.03	100	0	P	H
		4200	53.72	-20.28	74	72.73	30.1	8.83	57.94	100	115	P	H
		4200	41.79	-12.21	54	60.8	30.1	8.83	57.94	100	115	A	H
		4500	45.98	-28.02	74	63.87	30.7	9.11	57.7	100	0	P	H
		4924	39.71	-34.29	74	55.34	31.48	9.99	57.1	100	0	P	H
		5100	46.47	-27.53	74	61.53	31.7	10.02	56.78	100	0	P	H
		5400	51.17	-22.83	74	65.14	32	10.15	56.12	100	295	P	H
		5400	41.57	-12.43	54	55.54	32	10.15	56.12	100	295	A	H
													H
													H
													H



													H
	3690	45.83	-28.17	74	65.98	29.02	8.68	57.85	100	0	P	V	
	3900	48.52	-25.48	74	68.09	29.51	8.95	58.03	100	0	P	V	
	3990	47.82	-26.18	74	67.05	29.7	9.17	58.1	100	0	P	V	
	4200	58.07	-15.93	74	77.08	30.1	8.83	57.94	300	56	P	V	
	4200	47.19	-6.81	54	66.2	30.1	8.83	57.94	300	56	A	V	
	4500	55.1	-18.9	74	72.99	30.7	9.11	57.7	300	19	P	V	
	4500	41.69	-12.31	54	59.58	30.7	9.11	57.7	300	19	A	V	
	4924	39.91	-34.09	74	55.54	31.48	9.99	57.1	100	0	P	V	
	5100	50.74	-23.26	74	65.8	31.7	10.02	56.78	200	37	P	V	
	5100	39.56	-14.44	54	54.62	31.7	10.02	56.78	200	37	A	V	
	5400	54.26	-19.74	74	68.23	32	10.15	56.12	100	7	P	V	
	5400	44.32	-9.68	54	58.29	32	10.15	56.12	100	7	A	V	
	7386	45.06	-28.94	74	54.29	36.47	11.68	57.38	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.8	61.22	-12.78	74	51.39	27.13	16.29	33.59	335	33	P	H
		2389.8	50.44	-3.56	54	40.61	27.13	16.29	33.59	335	33	A	H
	*	2412	107.47	-	-	97.58	27.18	16.3	33.59	335	33	P	H
	*	2412	98.94	-	-	89.05	27.18	16.3	33.59	335	33	A	H
													H
													H
		2389.8	62.45	-11.55	74	52.62	27.13	16.29	33.59	225	267	P	V
		2389.905	50.4	-3.6	54	40.57	27.13	16.29	33.59	225	267	A	V
	*	2412	105.98	-	-	96.09	27.18	16.3	33.59	225	267	P	V
	*	2412	98.37	-	-	88.48	27.18	16.3	33.59	225	267	A	V
													V
													V
802.11n HT20 CH 06 2437MHz		2386.8	52.24	-21.76	74	42.42	27.13	16.29	33.6	310	36	P	H
		2386.64	42.82	-11.18	54	33	27.13	16.29	33.6	310	36	A	H
	*	2437	106.62	-	-	96.63	27.27	16.31	33.59	310	36	P	H
	*	2437	99.16	-	-	89.17	27.27	16.31	33.59	310	36	A	H
		2498.4	53.02	-20.98	74	42.87	27.4	16.32	33.57	310	36	P	H
		2488.4	42.83	-11.17	54	32.69	27.4	16.32	33.58	310	36	A	H
		2373.52	52.48	-21.52	74	42.77	27.09	16.22	33.6	215	270	P	V
		2390	43	-11	54	33.17	27.13	16.29	33.59	215	270	A	V
	*	2437	106.33	-	-	96.34	27.27	16.31	33.59	215	270	P	V
	*	2437	98.93	-	-	88.94	27.27	16.31	33.59	215	270	A	V
		2483.84	52.57	-21.43	74	42.48	27.36	16.31	33.58	215	270	P	V
		2483.84	43.3	-10.7	54	33.21	27.36	16.31	33.58	215	270	A	V



802.11n HT20 CH 11 2462MHz	*	2462	106.89	-	-	96.85	27.31	16.31	33.58	341	37	P	H
	*	2462	99.15	-	-	89.11	27.31	16.31	33.58	341	37	A	H
		2483.64	64.04	-9.96	74	53.95	27.36	16.31	33.58	341	37	P	H
		2483.68	49.34	-4.66	54	39.25	27.36	16.31	33.58	341	37	A	H
													H
													H
	*	2462	106.58	-	-	96.54	27.31	16.31	33.58	219	279	P	V
	*	2462	99.1	-	-	89.06	27.31	16.31	33.58	219	279	A	V
		2483.92	62.52	-11.48	74	52.43	27.36	16.31	33.58	219	279	P	V
		2483.52	48.99	-5.01	54	38.9	27.36	16.31	33.58	219	279	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		3615	46.24	-27.76	74	66.52	28.87	8.65	57.8	100	0	P	H
		3900	46.5	-27.5	74	66.07	29.51	8.95	58.03	100	0	P	H
		4200	51.55	-22.45	74	70.56	30.1	8.83	57.94	100	115	P	H
		4200	41.49	-12.51	54	60.5	30.1	8.83	57.94	100	115	A	H
		4500	49.44	-24.56	74	67.33	30.7	9.11	57.7	100	0	P	H
		4824	39.24	-34.76	74	55.17	31.29	10.02	57.24	100	0	P	H
		5100	45.19	-28.81	74	60.25	31.7	10.02	56.78	100	0	P	H
		5400	51.21	-22.79	74	65.18	32	10.15	56.12	100	295	P	H
		5400	41.54	-12.46	54	55.51	32	10.15	56.12	100	295	A	H
													H
													H
													H
													H
		3615	46.22	-27.78	74	66.5	28.87	8.65	57.8	100	0	P	V
		3900	49.74	-24.26	74	69.31	29.51	8.95	58.03	100	0	P	V
		3990	48.33	-25.67	74	67.56	29.7	9.17	58.1	100	0	P	V
		4200	57.96	-16.04	74	76.97	30.1	8.83	57.94	300	56	P	V
		4200	47.19	-6.81	54	66.2	30.1	8.83	57.94	300	56	A	V
		4500	53.74	-20.26	74	71.63	30.7	9.11	57.7	300	19	P	V
		4500	41.65	-12.35	54	59.54	30.7	9.11	57.7	300	19	A	V
		4824	39.49	-34.51	74	55.42	31.29	10.02	57.24	100	0	P	V
		5100	50.88	-23.12	74	65.94	31.7	10.02	56.78	200	37	P	V
		5100	39.54	-14.46	54	54.6	31.7	10.02	56.78	200	37	A	V
		5400	55.35	-18.65	74	69.32	32	10.15	56.12	100	7	P	V
		5400	44.32	-9.68	54	58.29	32	10.15	56.12	100	7	A	V
													V
802.11n HT20 CH 06 2437MHz		3660	44.94	-29.06	74	65.14	28.94	8.68	57.82	100	0	P	H
		3900	43.22	-30.78	74	62.79	29.51	8.95	58.03	100	0	P	H
		4200	52.01	-21.99	74	71.02	30.1	8.83	57.94	100	115	P	H
		4200	41.57	-12.43	54	60.58	30.1	8.83	57.94	100	115	A	H



		4500	46.6	-27.4	74	64.49	30.7	9.11	57.7	100	0	P	H
		4874	39.74	-34.26	74	55.54	31.38	9.99	57.17	100	0	P	H
		5100	45.96	-28.04	74	61.02	31.7	10.02	56.78	100	0	P	H
		5400	51.67	-22.33	74	65.64	32	10.15	56.12	100	295	P	H
		5400	41.55	-12.45	54	55.52	32	10.15	56.12	100	295	A	H
													H
													H
													H
													H
		3660	44.97	-29.03	74	65.17	28.94	8.68	57.82	100	0	P	V
		3900	49.83	-24.17	74	69.4	29.51	8.95	58.03	100	0	P	V
		3990	47.7	-26.3	74	66.93	29.7	9.17	58.1	100	0	P	V
		4200	57.22	-16.78	74	76.23	30.1	8.83	57.94	300	56	P	V
		4200	47.21	-6.79	54	66.22	30.1	8.83	57.94	300	56	A	V
		4500	54.54	-19.46	74	72.43	30.7	9.11	57.7	300	19	P	V
		4500	41.71	-12.29	54	59.6	30.7	9.11	57.7	300	19	A	V
		4874	39.88	-34.12	74	55.68	31.38	9.99	57.17	100	0	P	V
		5100	50.1	-23.9	74	65.16	31.7	10.02	56.78	200	37	P	V
		5100	39.52	-14.48	54	54.58	31.7	10.02	56.78	200	37	A	V
		5400	54.8	-19.2	74	68.77	32	10.15	56.12	100	7	P	V
		5400	44.34	-9.66	54	58.31	32	10.15	56.12	100	7	A	V
		7311	44.99	-29.01	74	54.21	36.28	11.77	57.27	100	0	P	V
802.11n HT20 CH 11 2462MHz		3690	44.92	-29.08	74	65.07	29.02	8.68	57.85	100	0	P	H
		3900	45.27	-28.73	74	64.84	29.51	8.95	58.03	100	0	P	H
		3990	42.18	-31.82	74	61.41	29.7	9.17	58.1	100	0	P	H
		4200	52.04	-21.96	74	71.05	30.1	8.83	57.94	100	115	P	H
		4200	41.59	-12.41	54	60.6	30.1	8.83	57.94	100	115	A	H
		4500	49.46	-24.54	74	67.35	30.7	9.11	57.7	100	0	P	H
		4924	39.77	-34.23	74	55.4	31.48	9.99	57.1	100	0	P	H
		5100	43.56	-30.44	74	58.62	31.7	10.02	56.78	100	0	P	H
		5400	52.15	-21.85	74	66.12	32	10.15	56.12	100	295	P	H
		5400	41.57	-12.43	54	55.54	32	10.15	56.12	100	295	A	H
		7386	44.18	-29.82	74	53.41	36.47	11.68	57.38	100	0	P	H
													H



													H
		3690	45.47	-28.53	74	65.62	29.02	8.68	57.85	100	0	P	V
		3900	49.32	-24.68	74	68.89	29.51	8.95	58.03	100	0	P	V
		3990	48.57	-25.43	74	67.8	29.7	9.17	58.1	100	0	P	V
		4200	56.23	-17.77	74	75.24	30.1	8.83	57.94	300	56	P	V
		4200	47.18	-6.82	54	66.19	30.1	8.83	57.94	300	56	A	V
		4500	53.69	-20.31	74	71.58	30.7	9.11	57.7	300	19	P	V
		4500	41.68	-12.32	54	59.57	30.7	9.11	57.7	300	19	A	V
		4924	40	-34	74	55.63	31.48	9.99	57.1	100	0	P	V
		5100	52.05	-21.95	74	67.11	31.7	10.02	56.78	200	37	P	V
		5100	39.54	-14.46	54	54.6	31.7	10.02	56.78	200	37	A	V
		5400	54.74	-19.26	74	68.71	32	10.15	56.12	100	7	P	V
		5400	44.32	-9.68	54	58.29	32	10.15	56.12	100	7	A	V
		7386	42.57	-31.43	74	51.8	36.47	11.68	57.38	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 802.11g (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path 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 802.11g LF		124.23	40.01	-3.49	43.5	53.69	17.23	1.51	32.46	100	0	P	H
		146.64	36.47	-7.03	43.5	50.44	16.89	1.51	32.44	-	-	P	H
		294.87	39.76	-6.24	46	50.84	18.97	2.22	32.37	-	-	P	H
		371.4	39.69	-6.31	46	48.76	20.74	2.48	32.34	-	-	P	H
		407.8	38.11	-7.89	46	45.75	22	2.63	32.33	-	-	P	H
		899.9	37	-9	46	35.8	28.97	3.73	31.66	-	-	P	H
													H
													H
													H
													H
													H
													H
		124.23	34.33	-9.17	43.5	48.01	17.23	1.51	32.46	-	-	P	V
		169.32	35.67	-7.83	43.5	51.01	15.37	1.61	32.42	-	-	P	V
		192	34.94	-8.56	43.5	50.95	14.63	1.69	32.4	-	-	P	V
		371.4	38.22	-7.78	46	47.29	20.74	2.48	32.34	-	-	P	V
		404.3	39.96	-6.04	46	47.79	21.88	2.56	32.33	100	0	P	V
		600.3	39.56	-6.44	46	43.45	25.4	3.09	32.46	-	-	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	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	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)

2. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Ken Wu, Jacky Hung, and Hao Hsu	Temperature :	22~24°C
		Relative Humidity :	48~52%

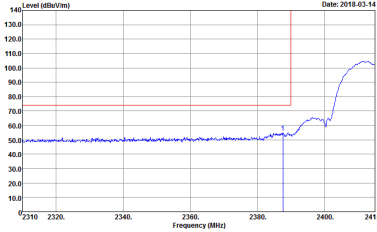
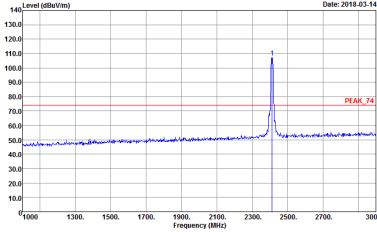
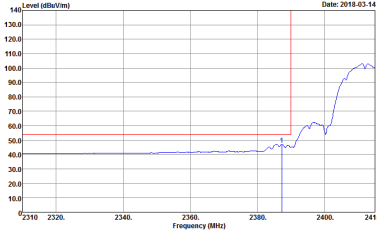
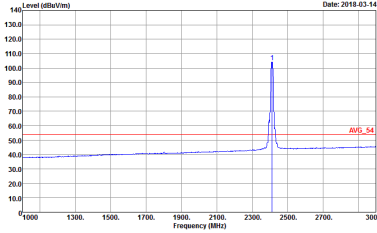
Note symbol

-L	Low channel location
-R	High channel location

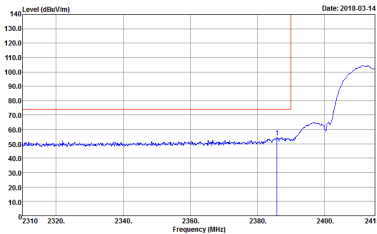
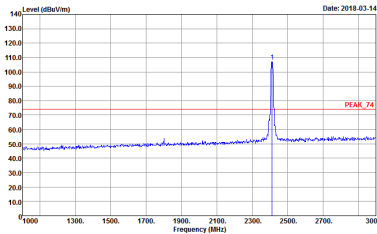
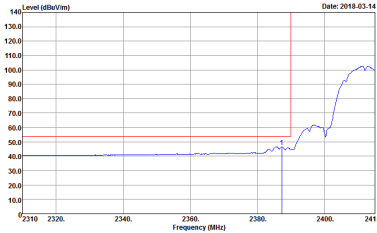
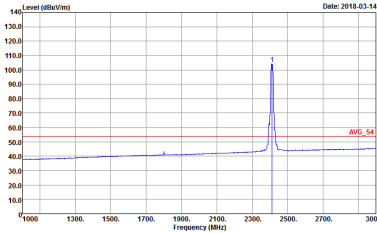


2.4GHz 2400~2483.5MHz

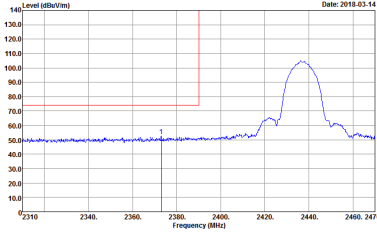
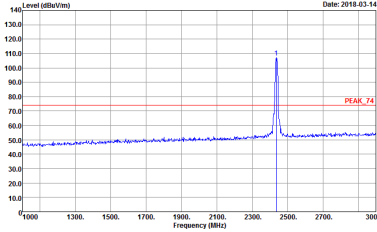
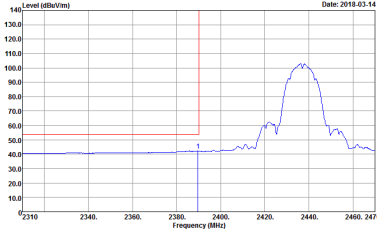
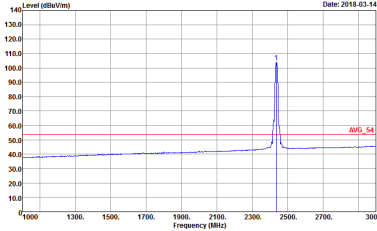
WIFI 802.11b (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 811720
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 811720

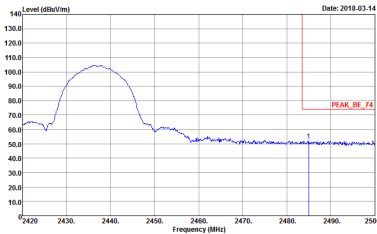
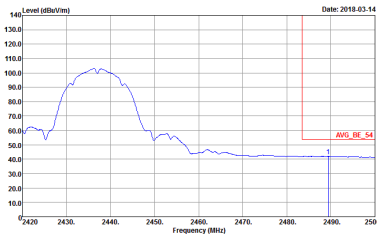


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Avg. : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Avg. : 811720

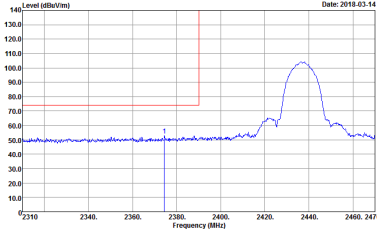
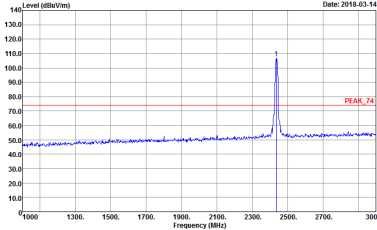
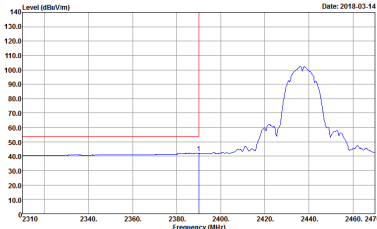
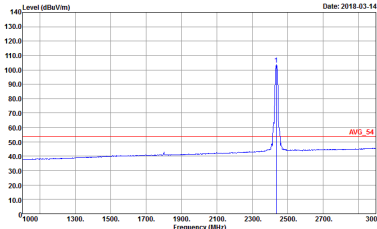


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 811720
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 811720

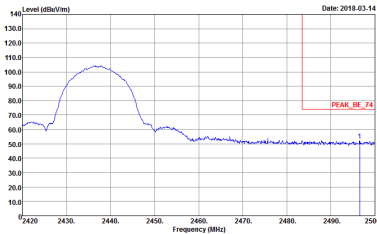
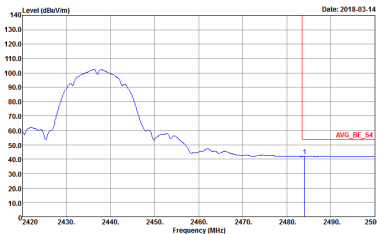


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 811720	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 811720	Left blank

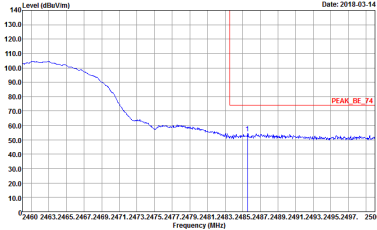
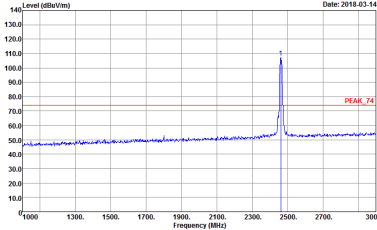
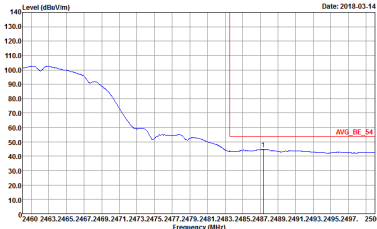
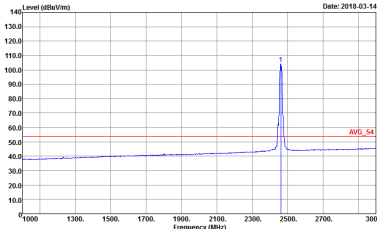


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720

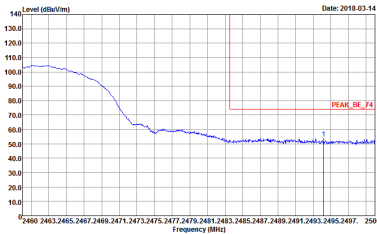
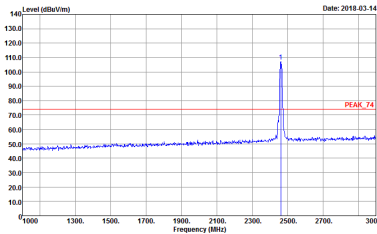
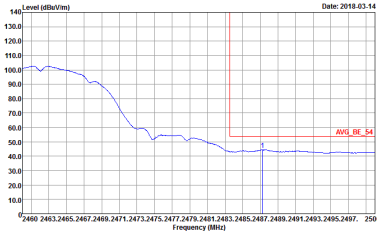
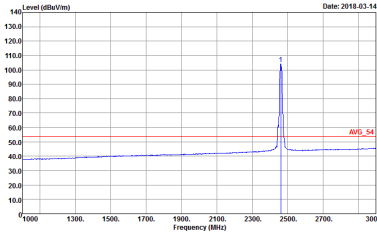


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 811720	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 811720	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 Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Avg. : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Project : Avg. : 811720

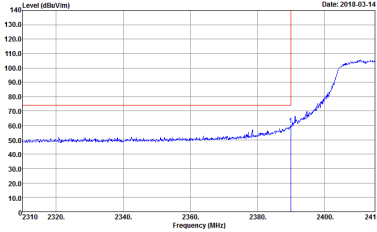
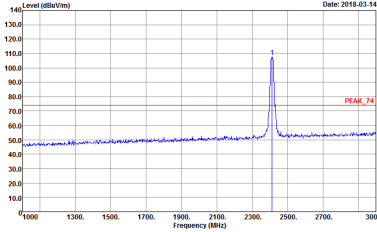
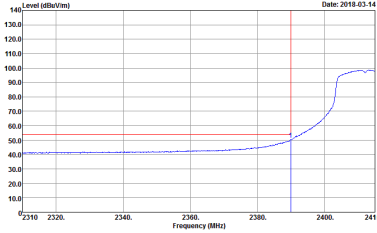
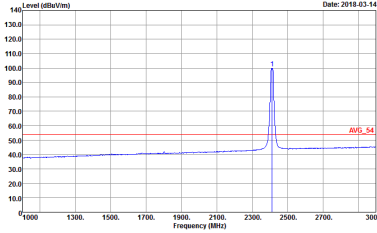


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 811720
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 811720

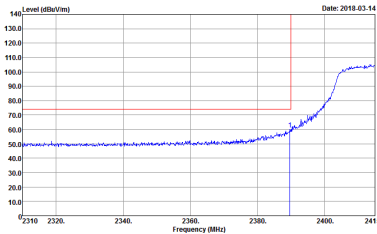
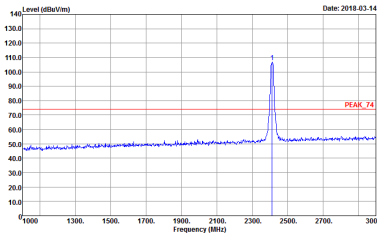
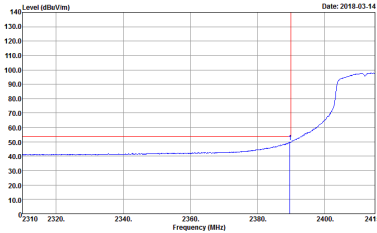
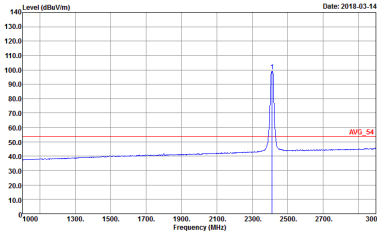


2.4GHz 2400~2483.5MHz

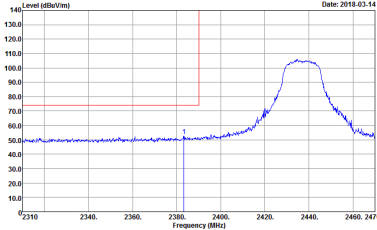
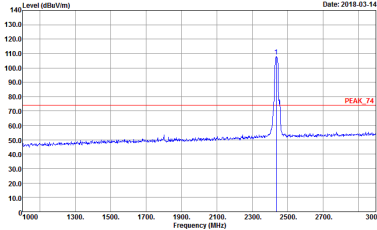
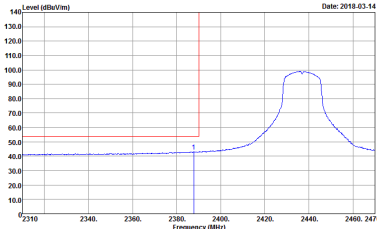
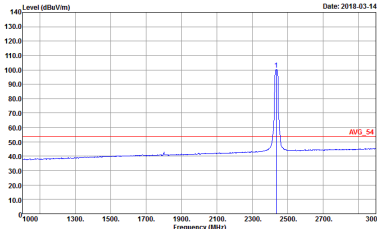
WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CHI1-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 811720	 Site : 03CHI1-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 811720
Avg.	 Site : 03CHI1-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 811720	 Site : 03CHI1-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 811720

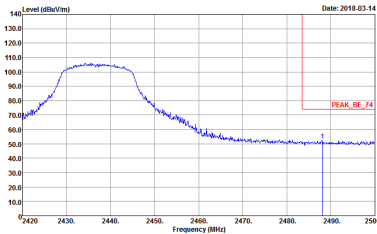
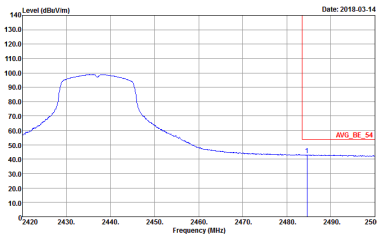


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720

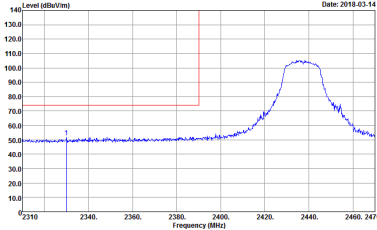
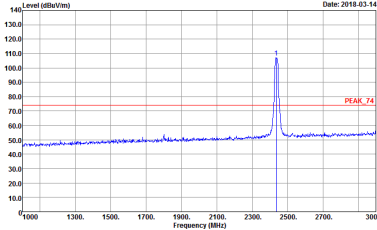
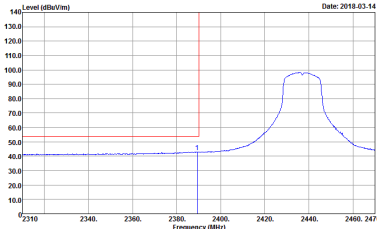
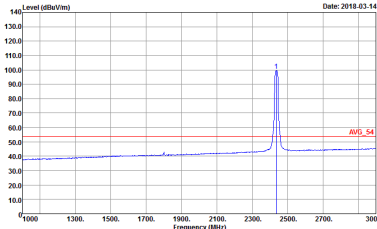


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 811720
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 811720

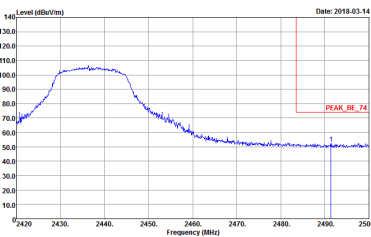
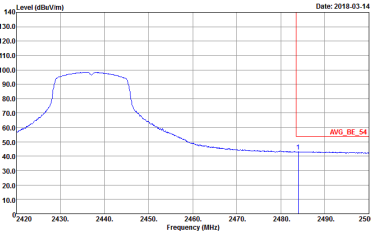


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 811720	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 811720	Left blank

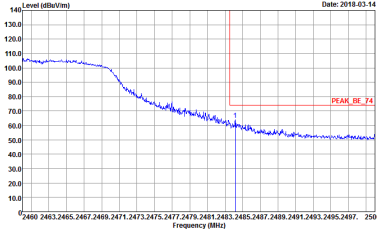
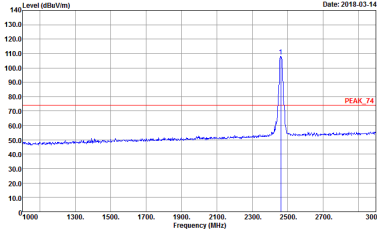
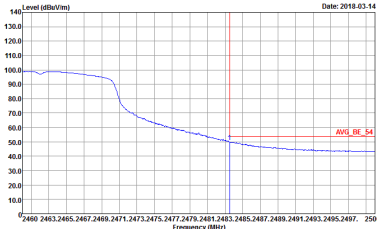
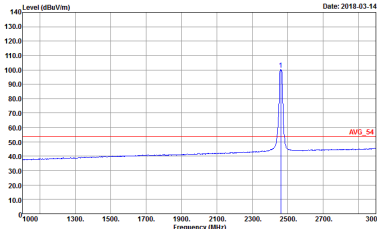


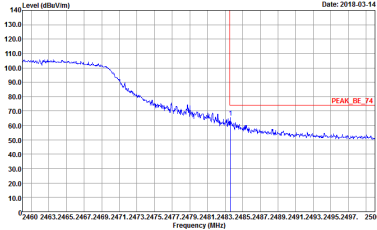
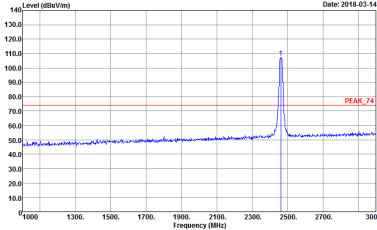
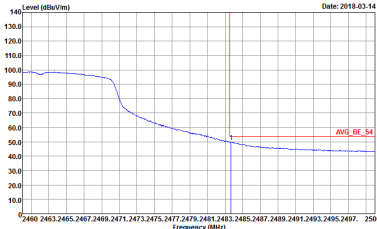
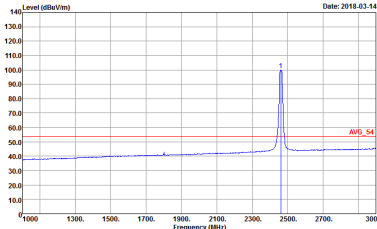
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720	Left blank



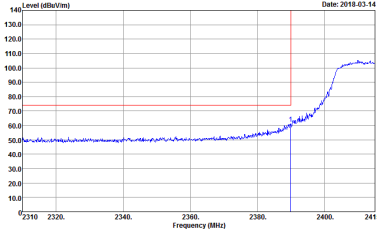
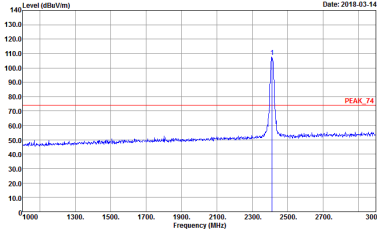
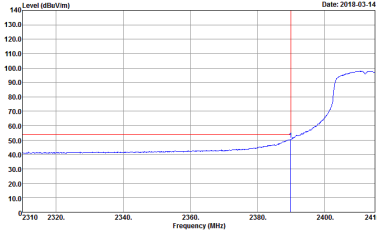
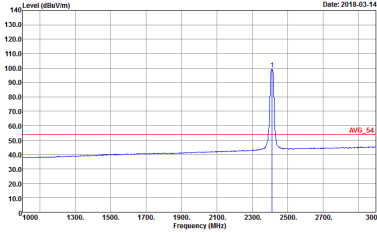
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak 811720
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak 811720

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 Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720

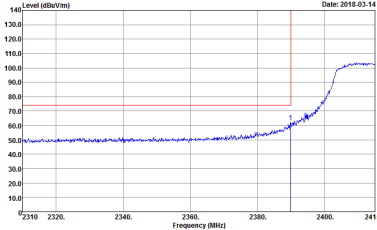
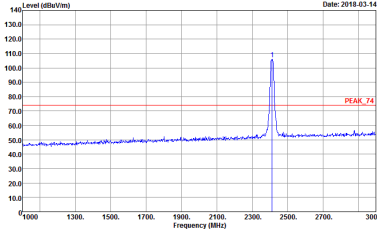
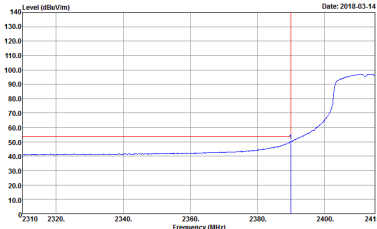
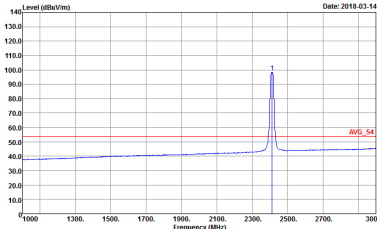


2.4GHz 2400~2483.5MHz

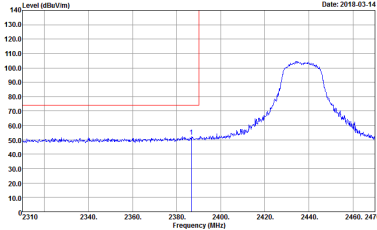
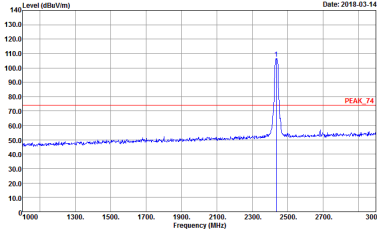
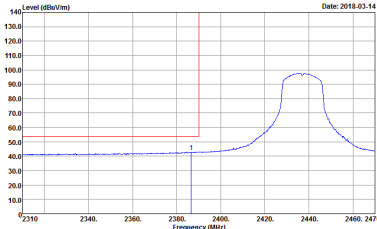
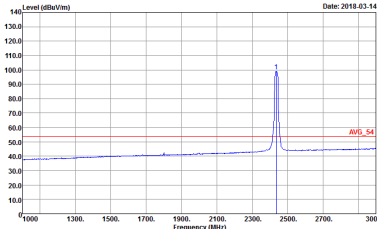
WIFI 802.11n HT20 (Band Edge @ 3m)

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 : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 811720
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 811720

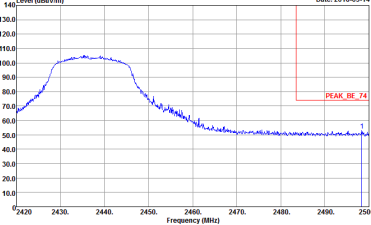
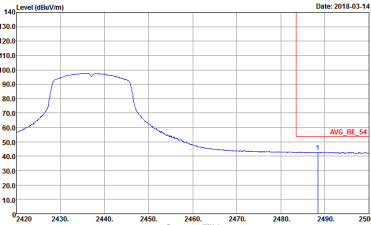


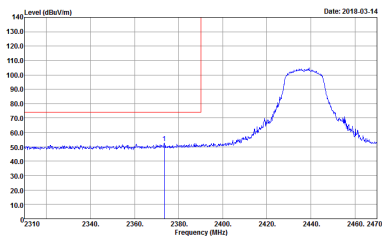
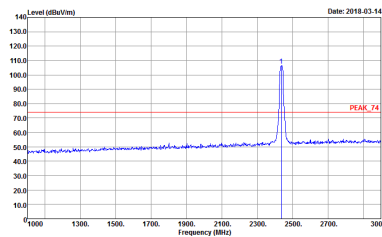
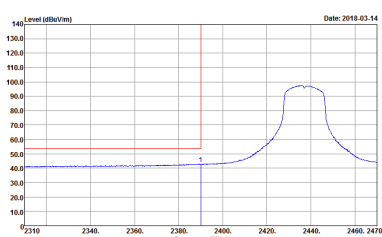
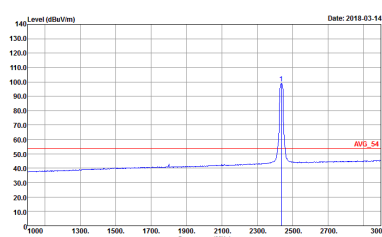
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720



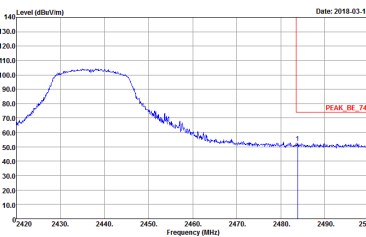
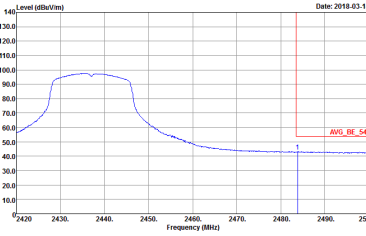
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak : 811720



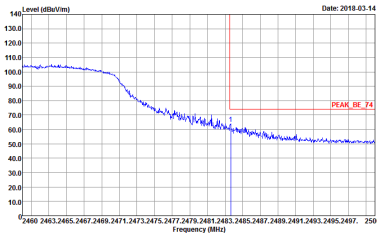
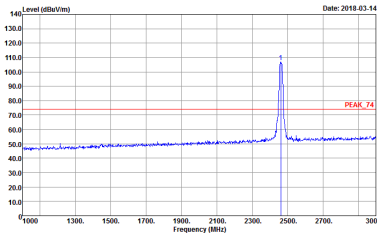
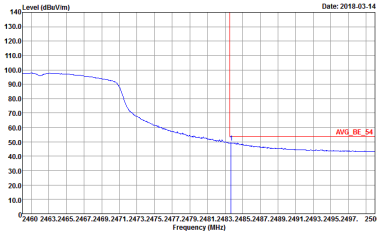
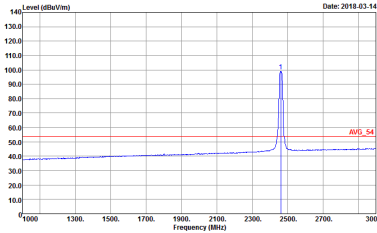
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 811720	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 811720	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 Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720

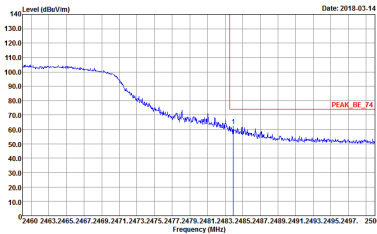
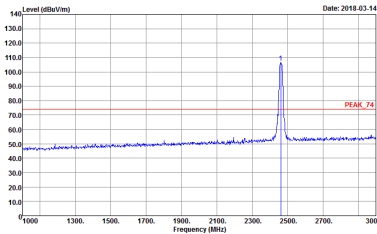
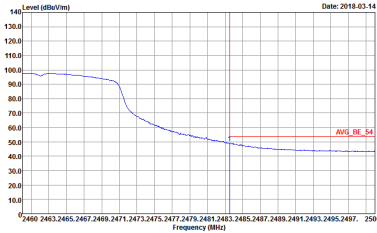
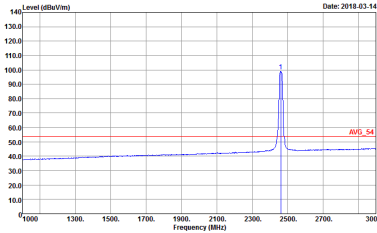


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 811720	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:1000KHz SWT:Auto Detector : Peak Project : 811720	Left blank

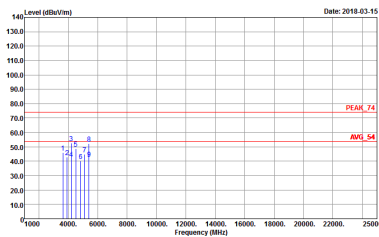
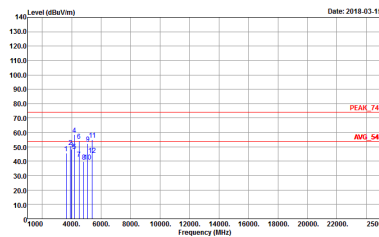


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : Peak : 811720
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:1000KHz SWT:Auto Project : Peak : 811720



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 Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720

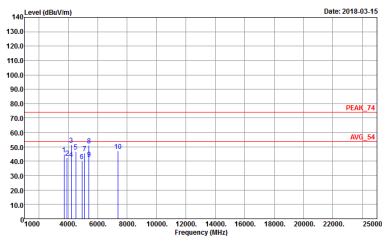
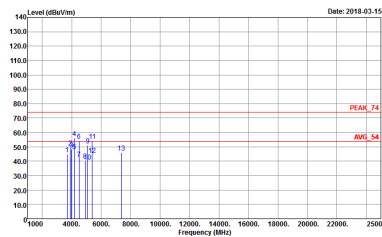
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Project : 811720



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH11-19Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Project : 811720	Site : 03CH11-19Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Project : 811720

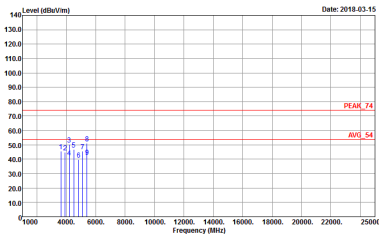
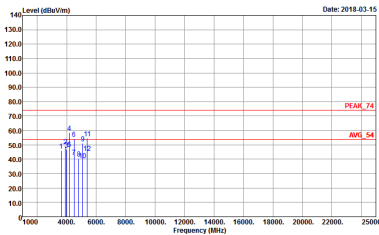


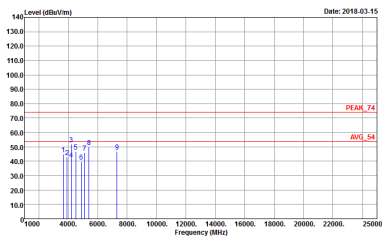
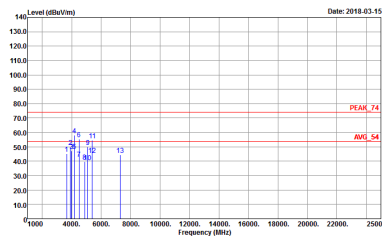
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 811720	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

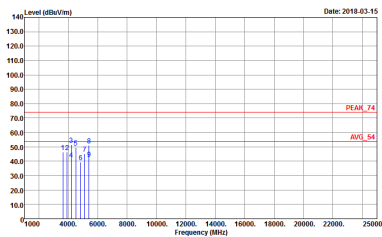
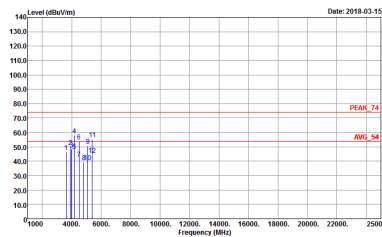
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 811720	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 811720

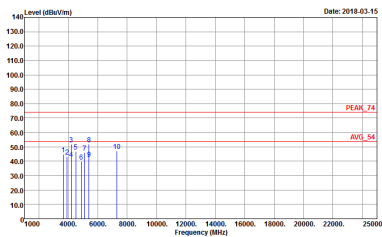
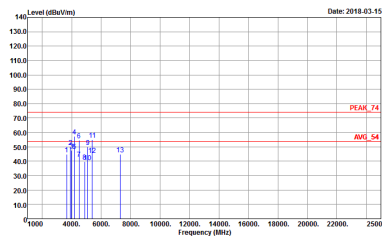


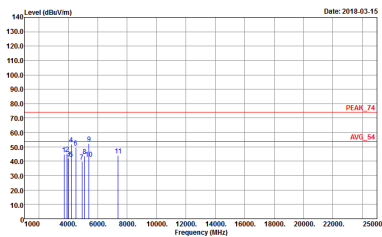
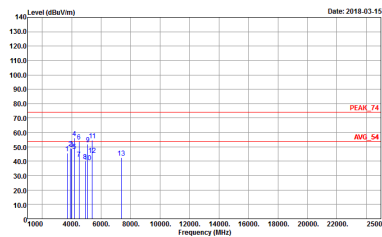
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 811720	Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 811720

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

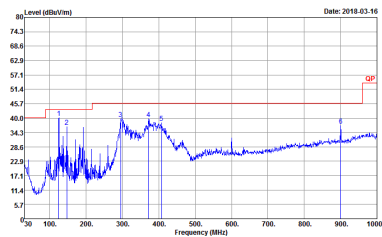
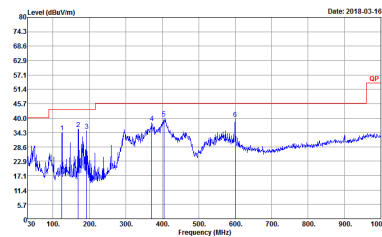
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 811720



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 811720	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 811720

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 811720	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 811720

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

WIFI	2.4GHz 2400~2483.5MHz	
ANT	802.11g LF	
1	Horizontal	Vertical
QP / Peak	 Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC HORIZONTAL Detector : Peak Project : 811720	 Site : 03CH11-HY Condition : QP 3m BE-LOG 6111D-LF_ETC VERTICAL Detector : Peak Project : 811720



Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11b	100	-	-	10Hz	0.00
802.11g	97.22	1400	0.71	1kHz	0.12
2.4GHz 802.11n HT20	96.32	1310	0.76	1kHz	0.16

RBW 10 MHz Delta 3 [T1]
 -0.12 dB
 VBW 10 MHz
 SWT 8 ms 1.600000 ms

Ref 30 dBm Att 20 dB

30 Offset 24 5 dB

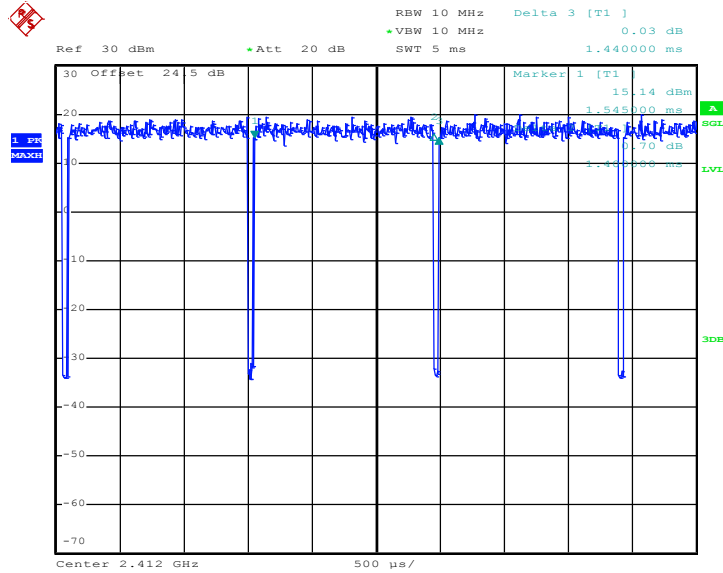
Marker 1 [T1]
 17.49 dBm
 308.000000 us
 -0.12 dB
 1.600000 ms

1.75 MHz

Center 2.412 GHz 800 us/

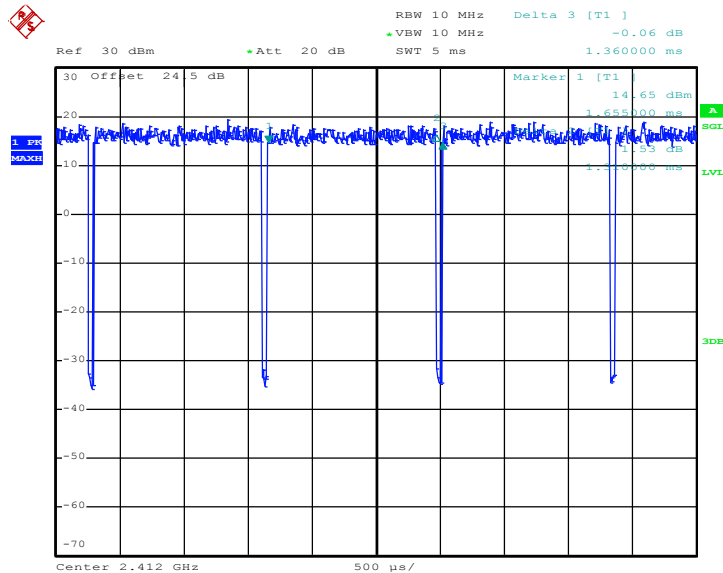
Date: 26.JAN.2018 17:46:18

802.11g



Date: 26.JAN.2018 17:52:39

802.11n HT20



Date: 26.JAN.2018 17:57:47