



FCC RF Test Report

APPLICANT : Bomotti LLC
EQUIPMENT : Smart AC Plug
MODEL NAME : HD34BX
FCC ID : 2ALBG-2017
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System

The product was completed on Feb. 01, 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.

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FCC ID: 2ALBG-2017

Page Number : 1 of 44

Report Issued Date : Jun. 04, 2018

Report Version : Rev. 02

Report Template No.: BU5-FR15CWL AC MA Version 2.0



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR812005B	Rev. 01	Initial issue of report	Feb. 07, 2018
FR812005B	Rev. 02	Updating the antenna gain to 2.31 dBi	Jun. 04, 2018



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result
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
3.6	15.207	AC Conducted Emission	15.207(a)	Pass
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass



1 General Description

1.1 Applicant

Bomotti LLC

28 Schenck Parkway, Building 2B, Suite 200, Asheville, North Carolina 28803

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Smart AC Plug
Model Name	HD34BX
FCC ID	2ALBG-2017
EUT supports Radios application	WLAN 11b/g/n HT20/HT40 Bluetooth LE

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2472 MHz
Maximum (Peak) Output Power to antenna	802.11b : 20.42 dBm (0.1102 W) 802.11g : 25.25 dBm (0.3350 W) 802.11n HT20 : 24.93 dBm (0.3112 W) 802.11n HT40 : 24.39 dBm (0.2748 W)
99% Occupied Bandwidth	802.11b : 14.40 MHz 802.11g : 17.45 MHz 802.11n HT20 : 18.25 MHz 802.11n HT40 : 36.20 MHz
Antenna Type / Gain	Fixed Internal Antenna type with gain 2.31 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

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	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442		

2.2 Test Mode

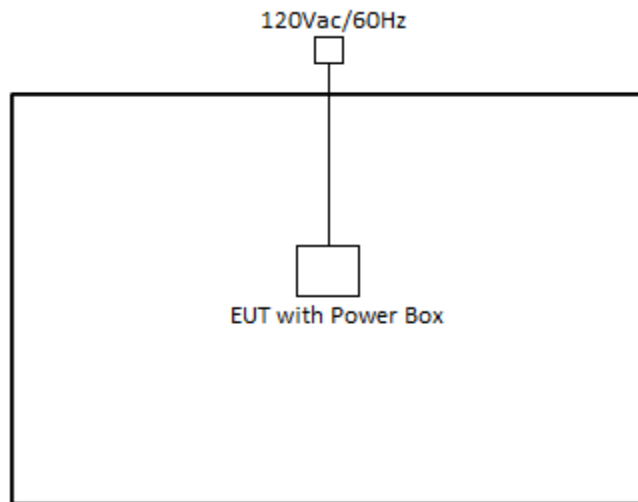
Final test modes are considering the modulation and worse data rates as below table.

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

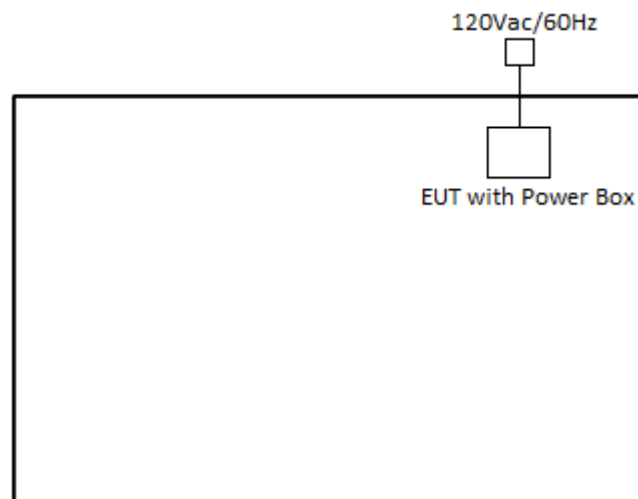
Test Cases	
AC Conducted Emission	Mode 1: WLAN (2.4GHz) Tx Mode 2: Bluetooth Tx
Remark: The worst case of conducted emission is mode 1; only the test data of it was reported.	

2.3 Connection Diagram of Test System

<WLAN Tx Mode>



<AC Conducted Emission Mode>





2.4 EUT Operation Test Setup

The RF test items, utility "QATool_Dbg.exe" 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.

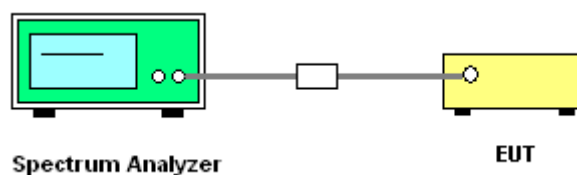
3.1.2 Measuring Instruments

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.

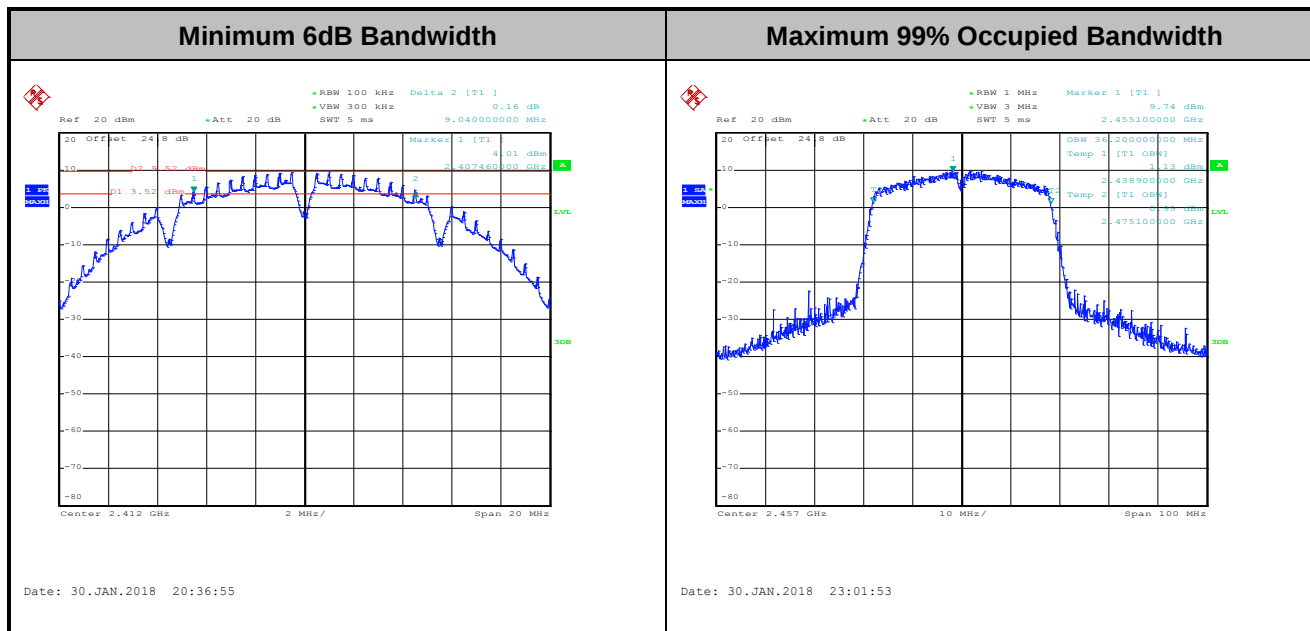
3.1.4 Test Setup





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.

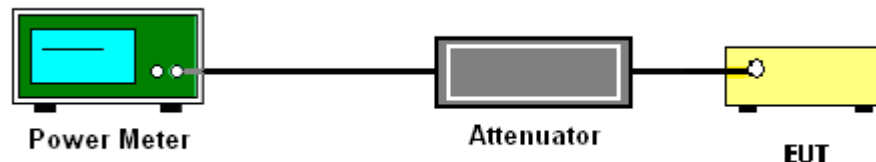
3.2.2 Measuring Instruments

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.

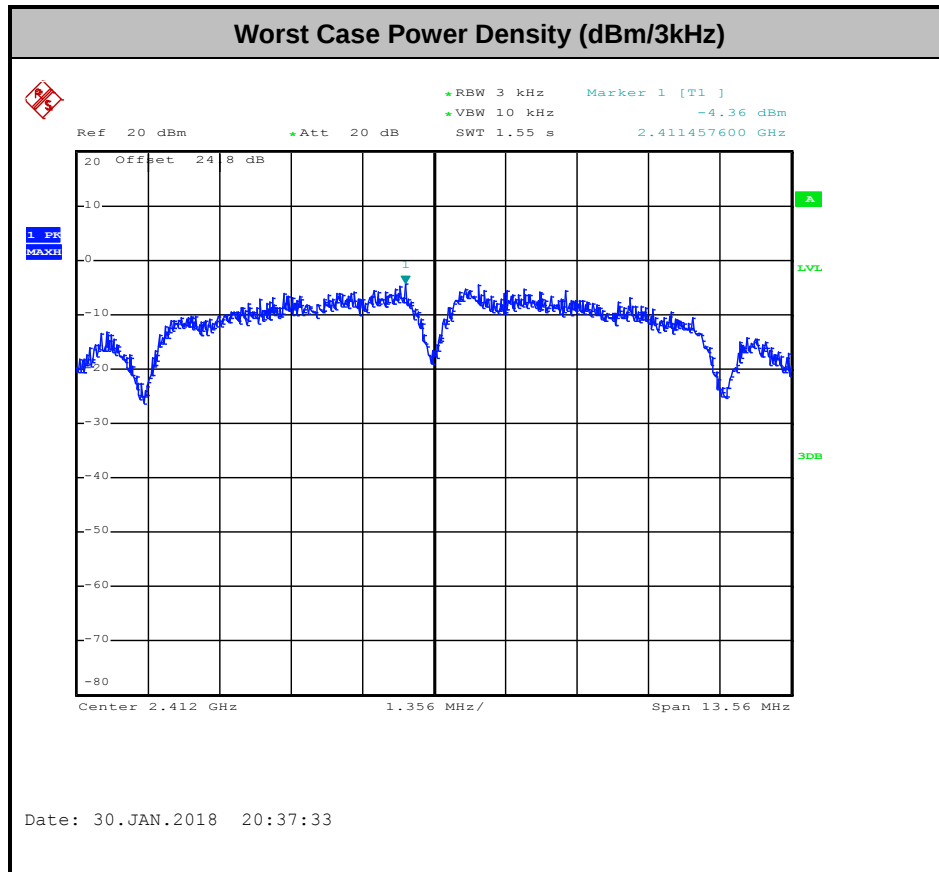
3.3.4 Test Setup





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.

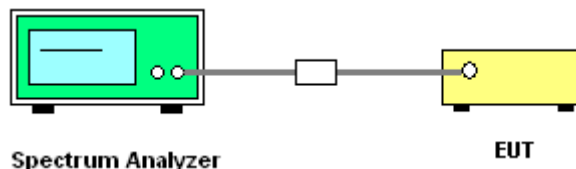
3.4.2 Measuring Instruments

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

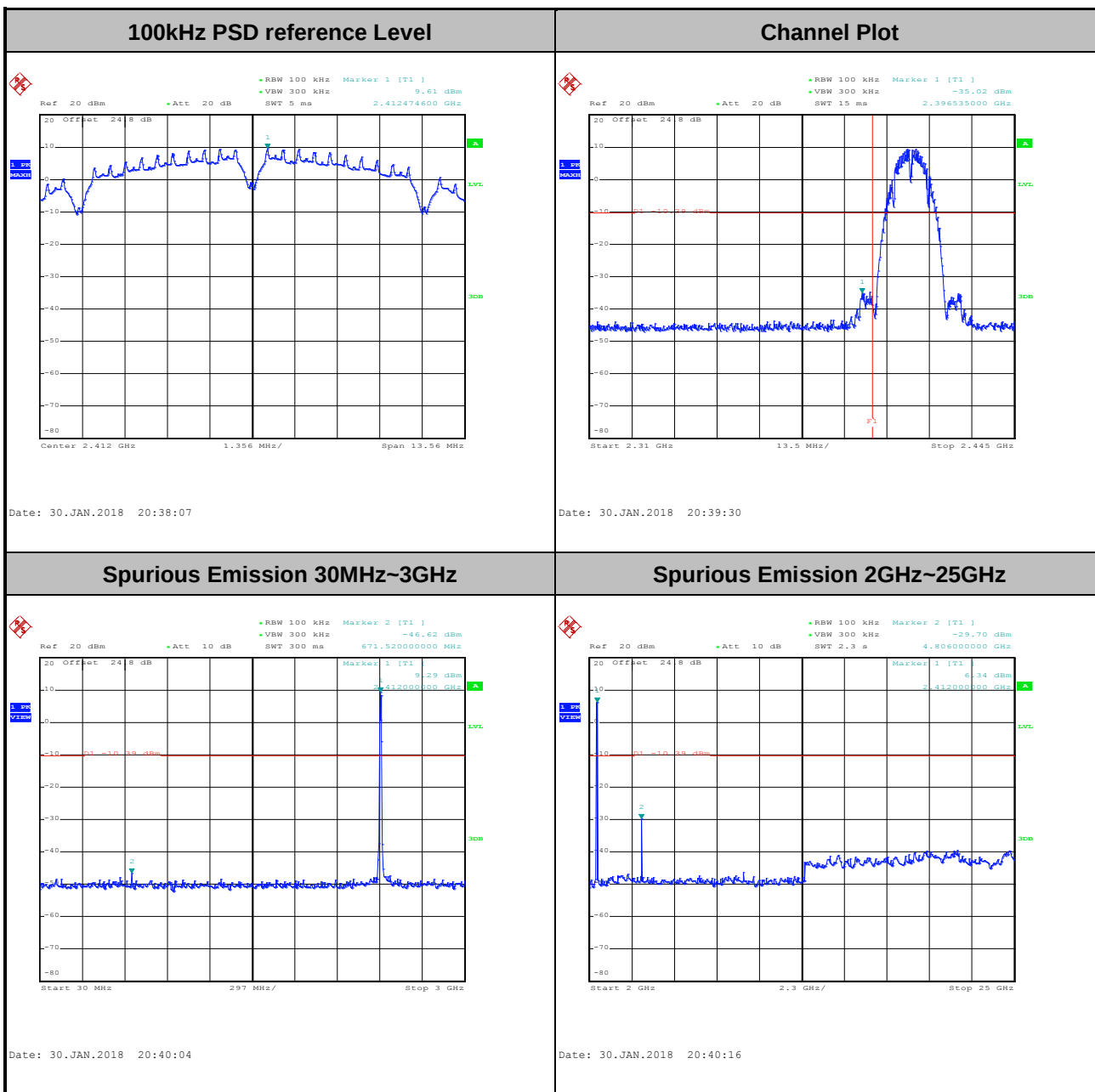




3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Shiang Wang and Kai Liao	Temperature :	21~25°C
		Relative Humidity :	51~54%

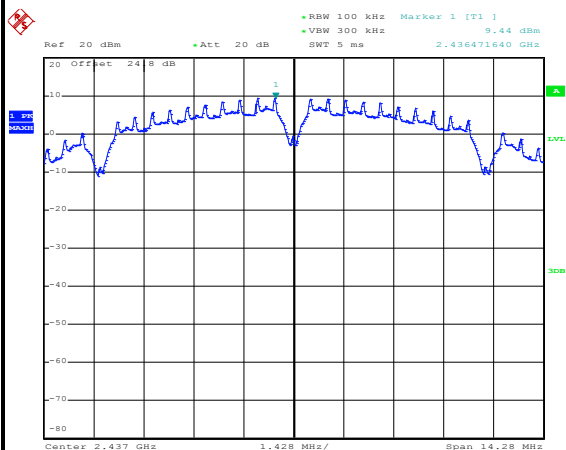
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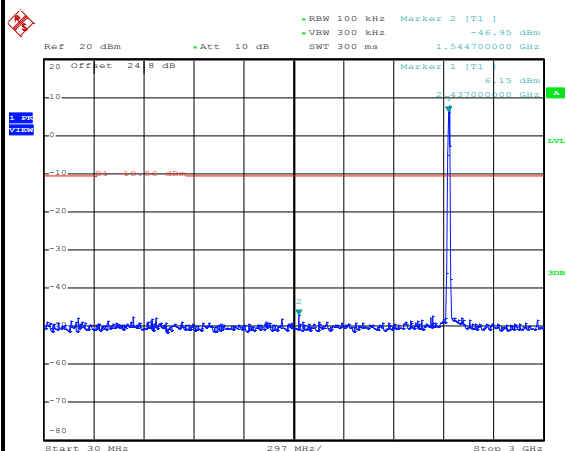
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100kHz PSD reference Level



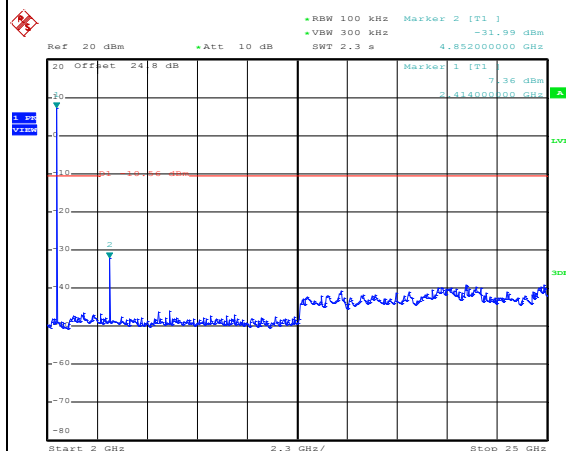
Date: 30.JAN.2018 20:45:49

Spurious Emission 30MHz~3GHz



Date: 30.JAN.2018 20:46:59

Spurious Emission 2GHz~25GHz

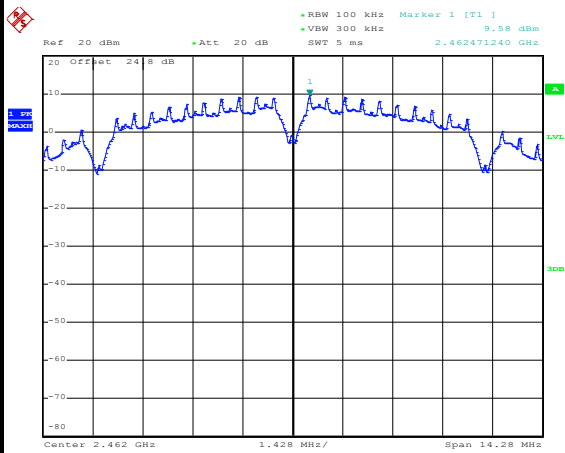


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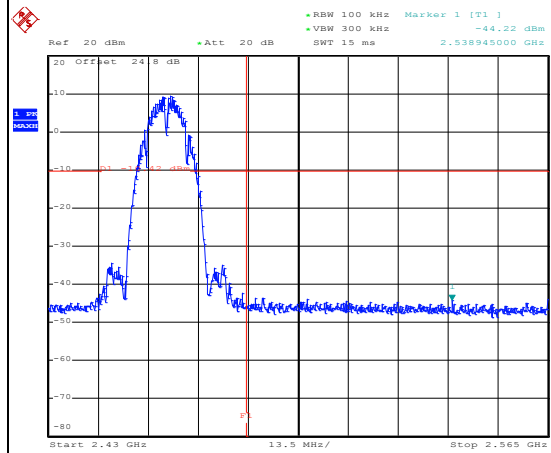
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100kHz PSD reference Level



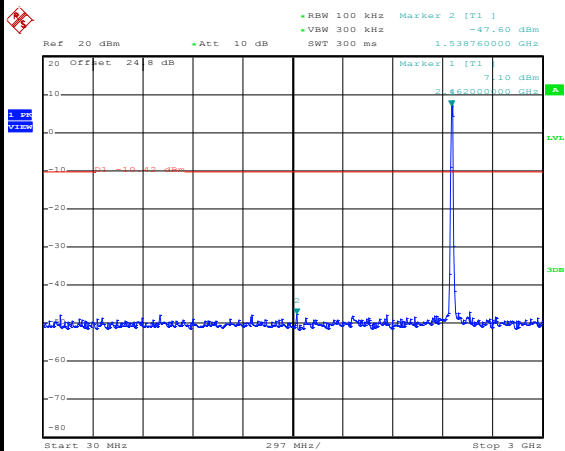
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Channel Plot



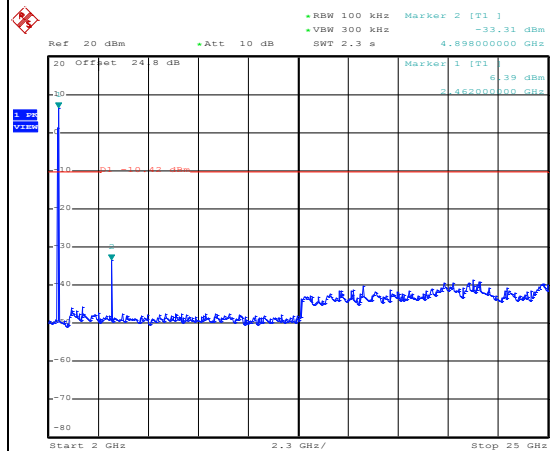
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Spurious Emission 30MHz~3GHz



Date: 30.JAN.2018 20:52:17

Spurious Emission 2GHz~25GHz

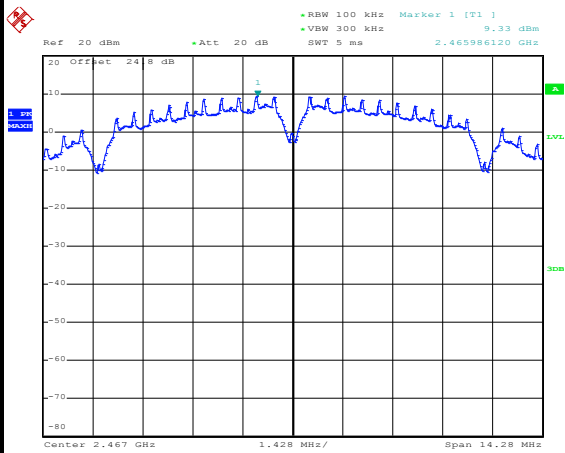


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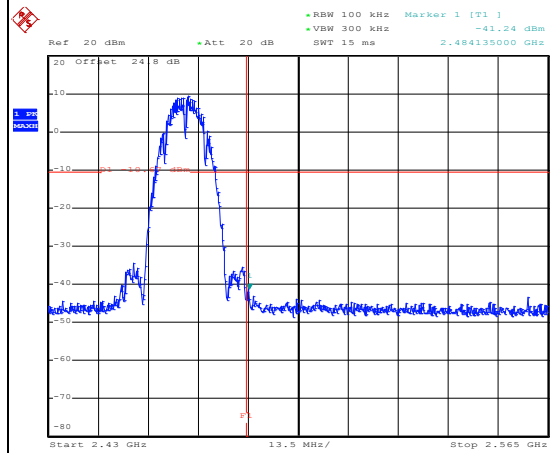
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100kHz PSD reference Level



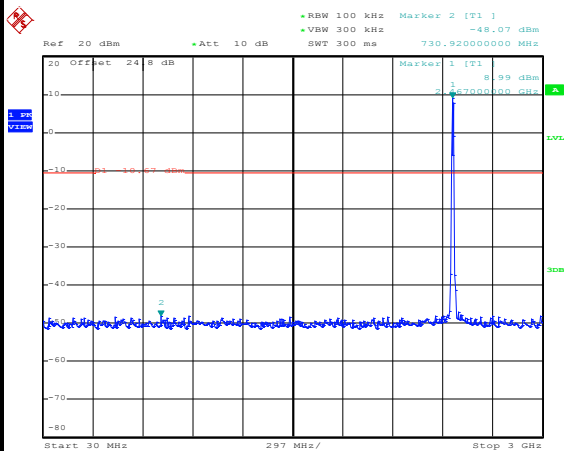
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Channel Plot



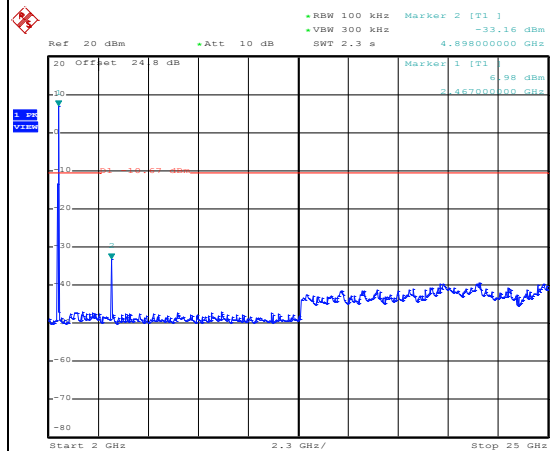
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Spurious Emission 30MHz~3GHz



Date: 30.JAN.2018 21:00:47

Spurious Emission 2GHz~25GHz

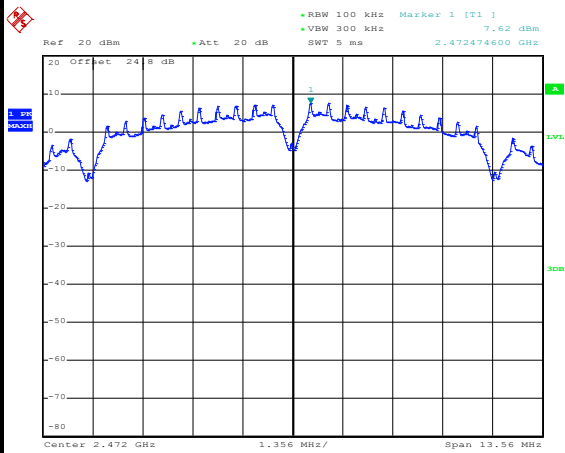


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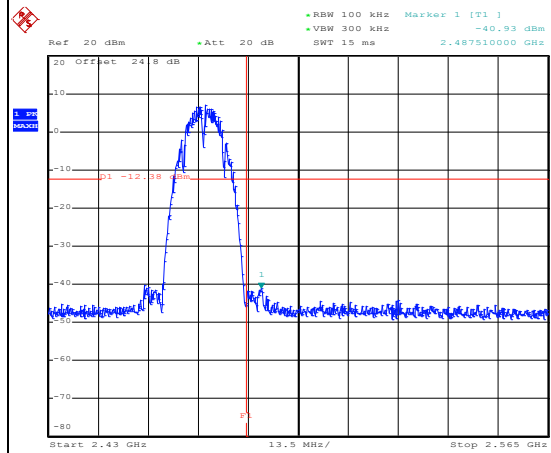
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100kHz PSD reference Level



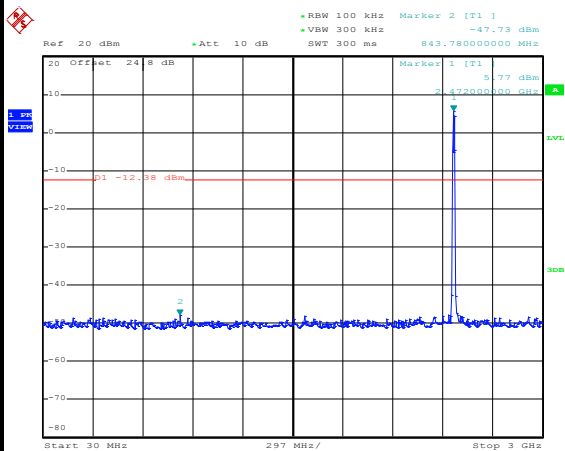
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Channel Plot



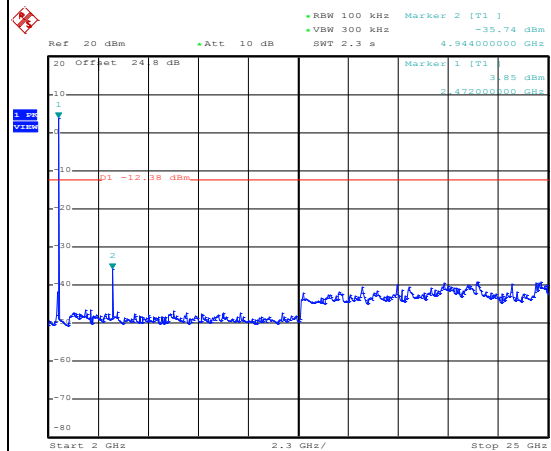
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Spurious Emission 30MHz~3GHz



Date: 30.JAN.2018 23:39:56

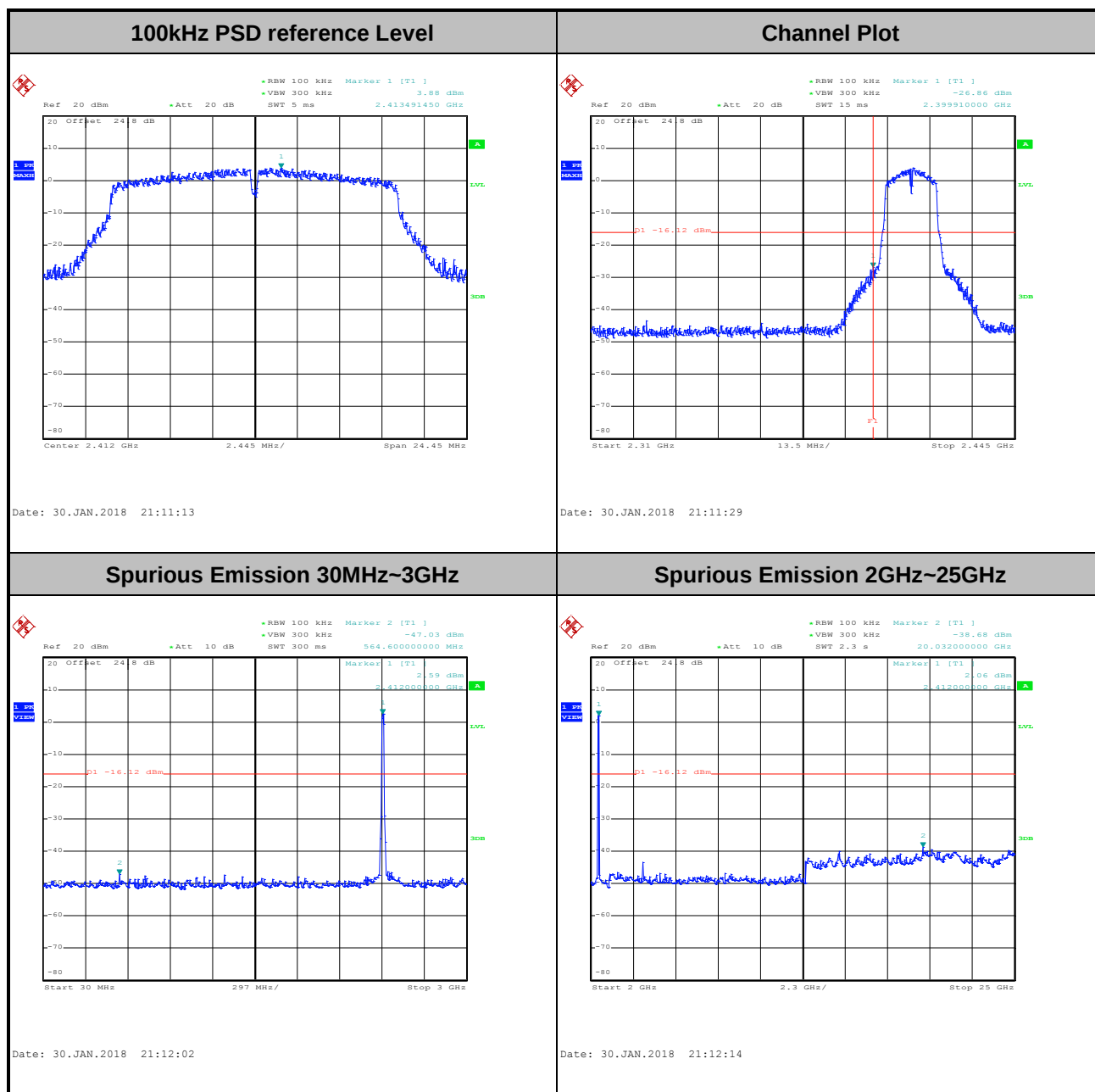
Spurious Emission 2GHz~25GHz



Date: 30.JAN.2018 23:40:08



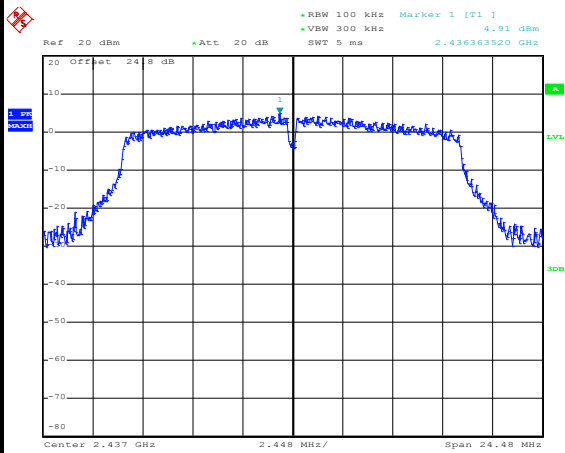
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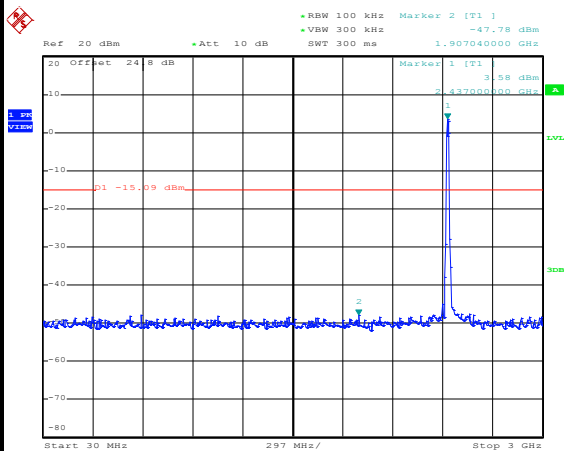


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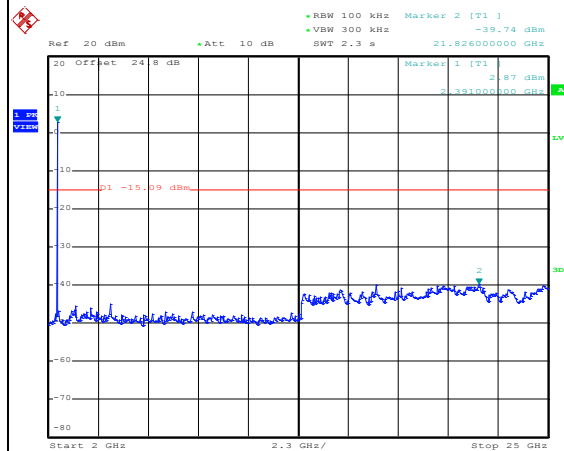
100kHz PSD reference Level



Spurious Emission 30MHz~3GHz

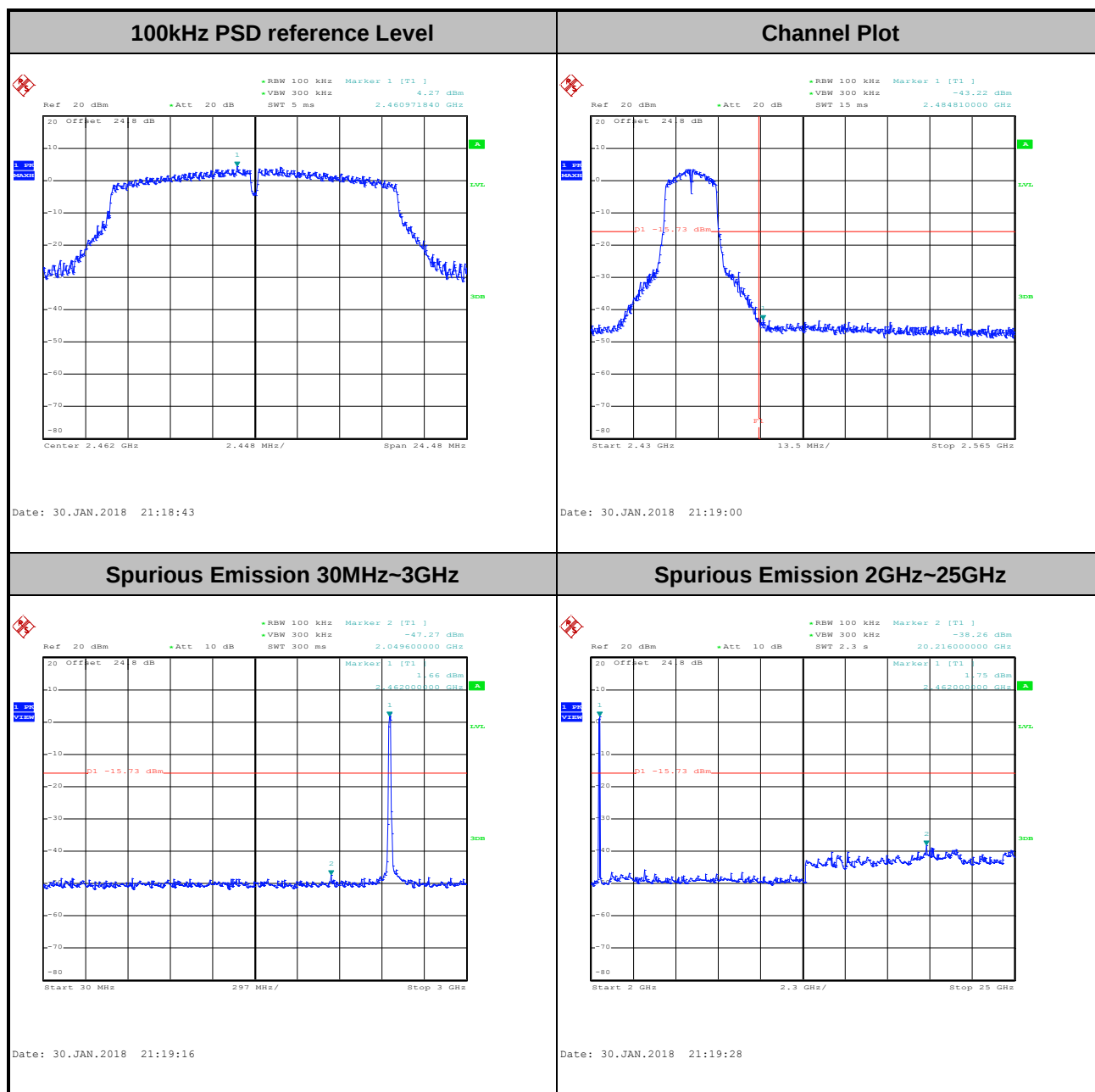


Spurious Emission 2GHz~25GHz





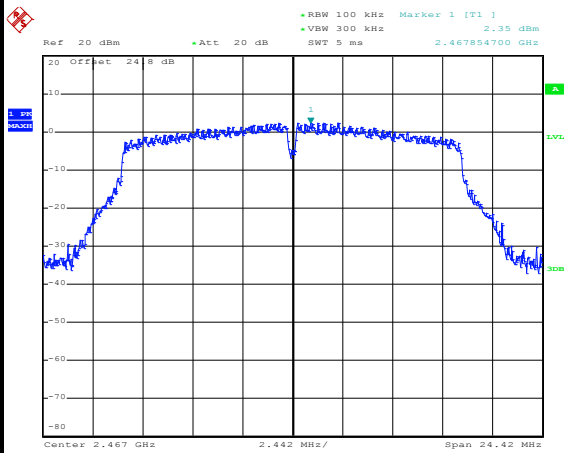
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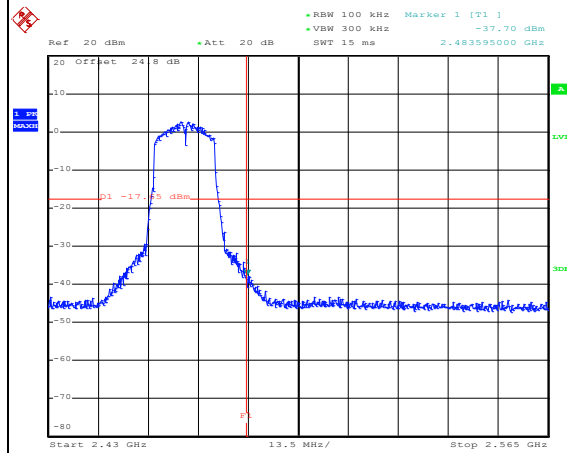
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100kHz PSD reference Level



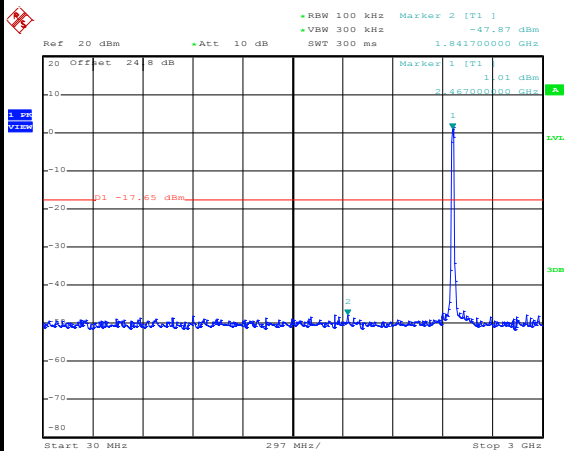
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Channel Plot



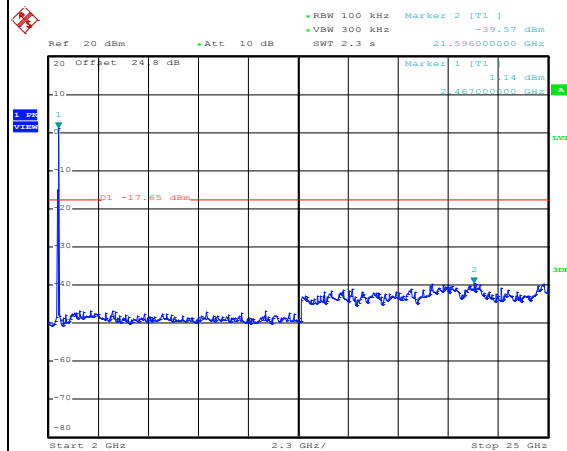
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Spurious Emission 30MHz~3GHz

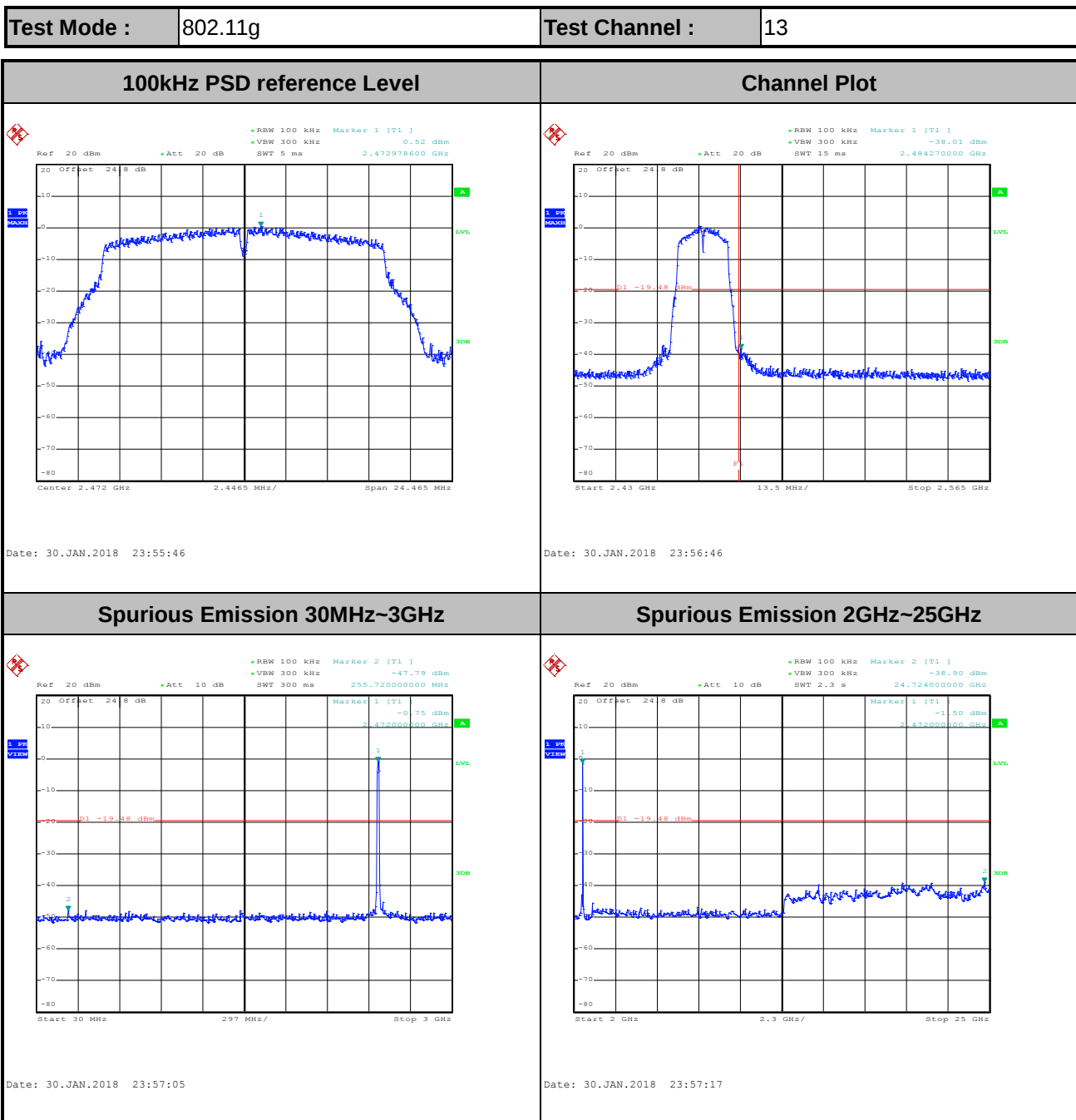


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Spurious Emission 2GHz~25GHz



Date: 30.JAN.2018 23:51:51

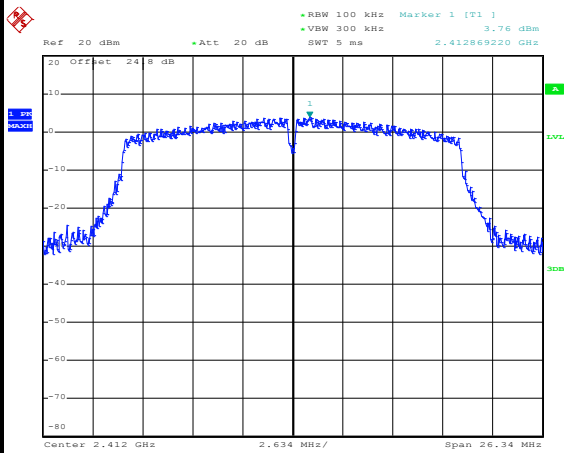




Test Mode : 802.11n HT20

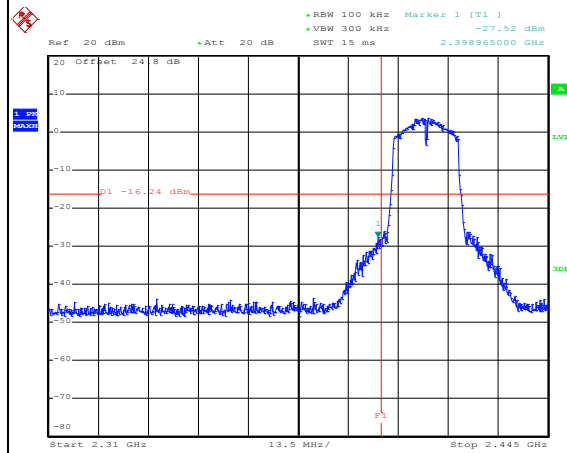
Test Channel : 01

100kHz PSD reference Level



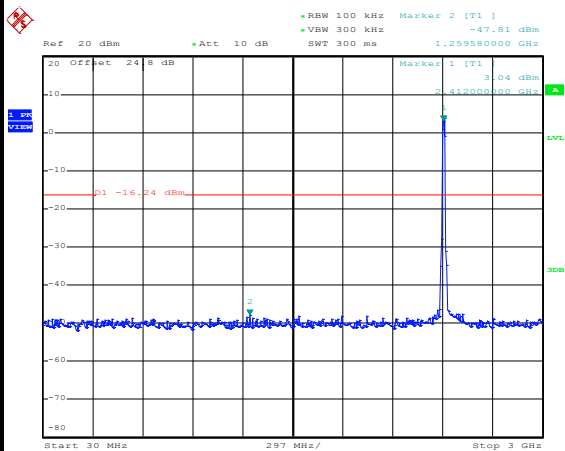
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Channel Plot



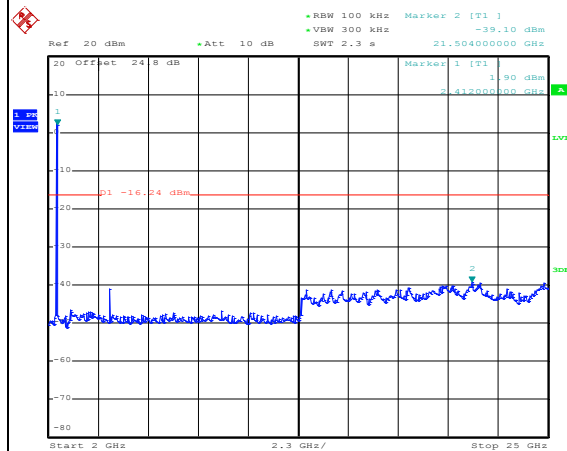
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Spurious Emission 30MHz~3GHz



Date: 30.JAN.2018 22:10:01

Spurious Emission 2GHz~25GHz

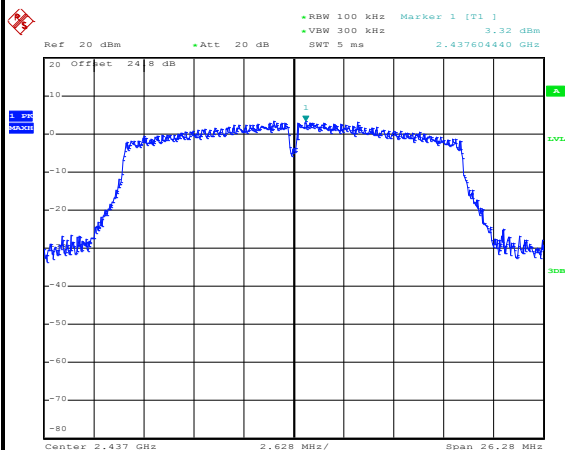


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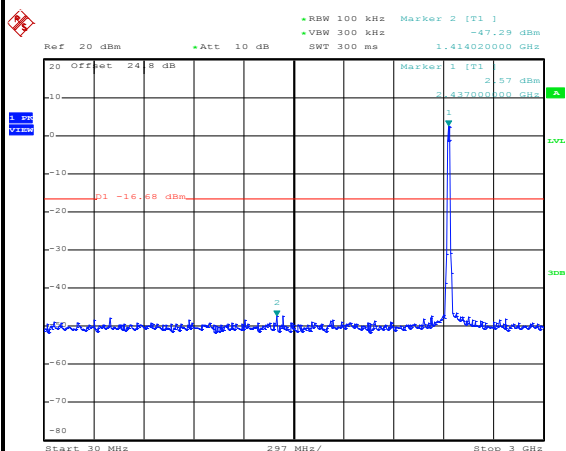
Test Mode :	802.11n HT20	Test Channel :	06
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100kHz PSD reference Level



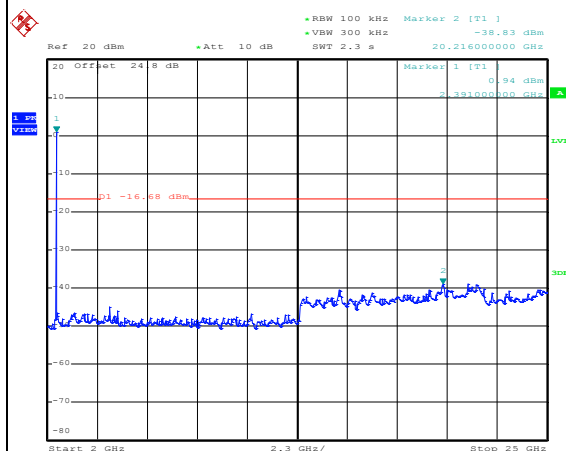
Date: 30.JAN.2018 22:13:16

Spurious Emission 30MHz~3GHz



Date: 30.JAN.2018 22:13:56

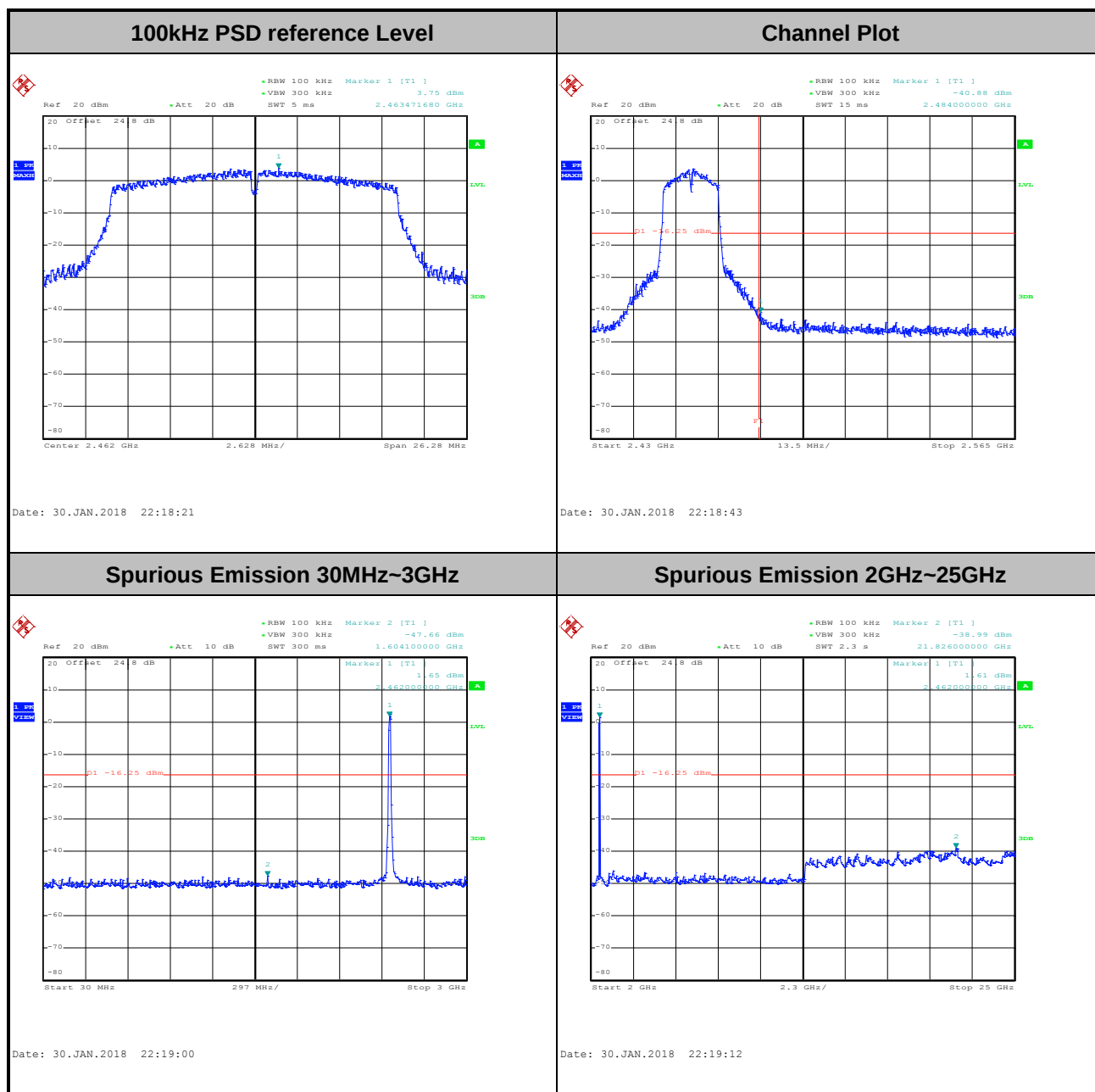
Spurious Emission 2GHz~25GHz



Date: 30.JAN.2018 22:15:08

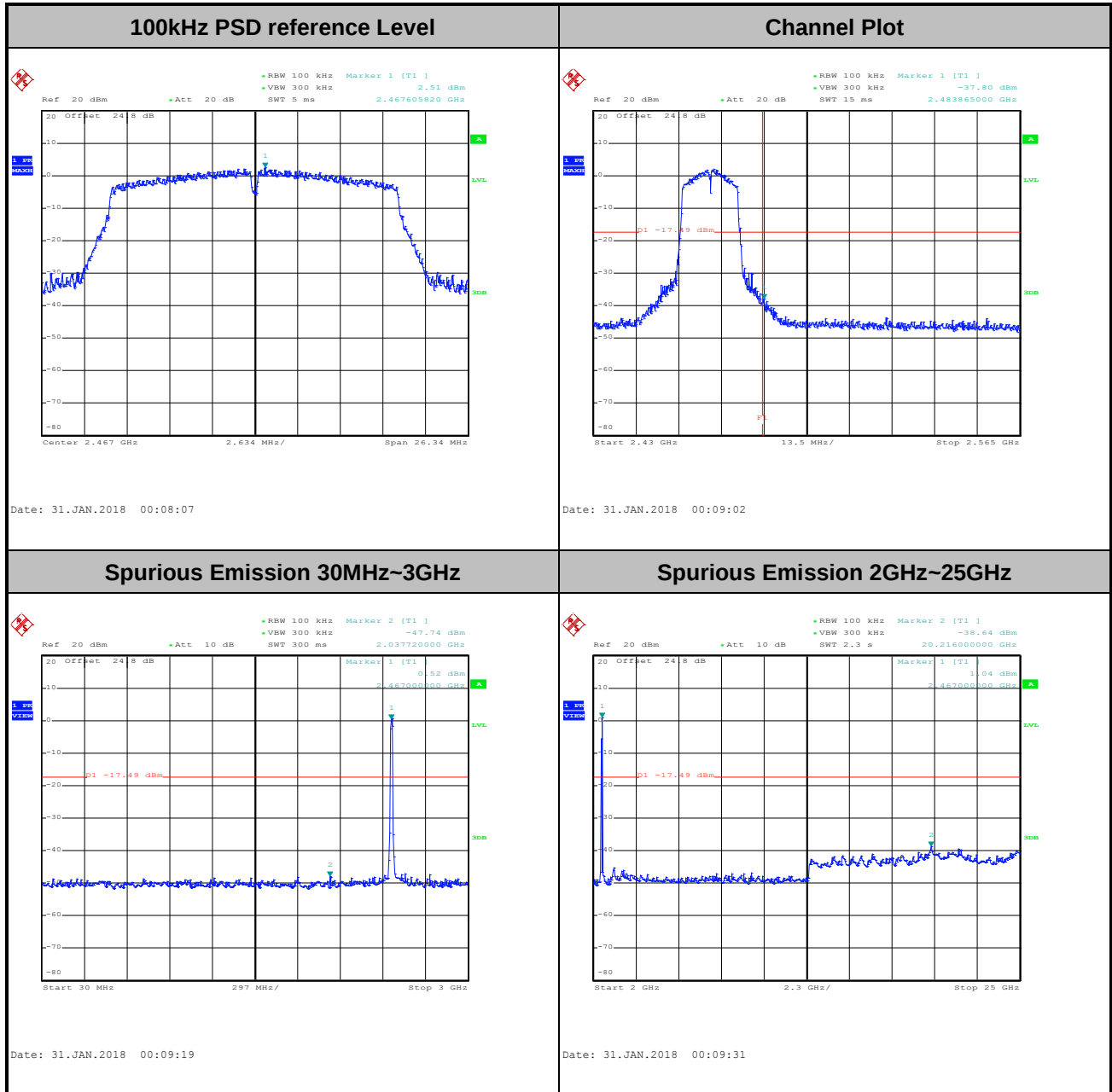


Test Mode :	802.11n HT20	Test Channel :	11
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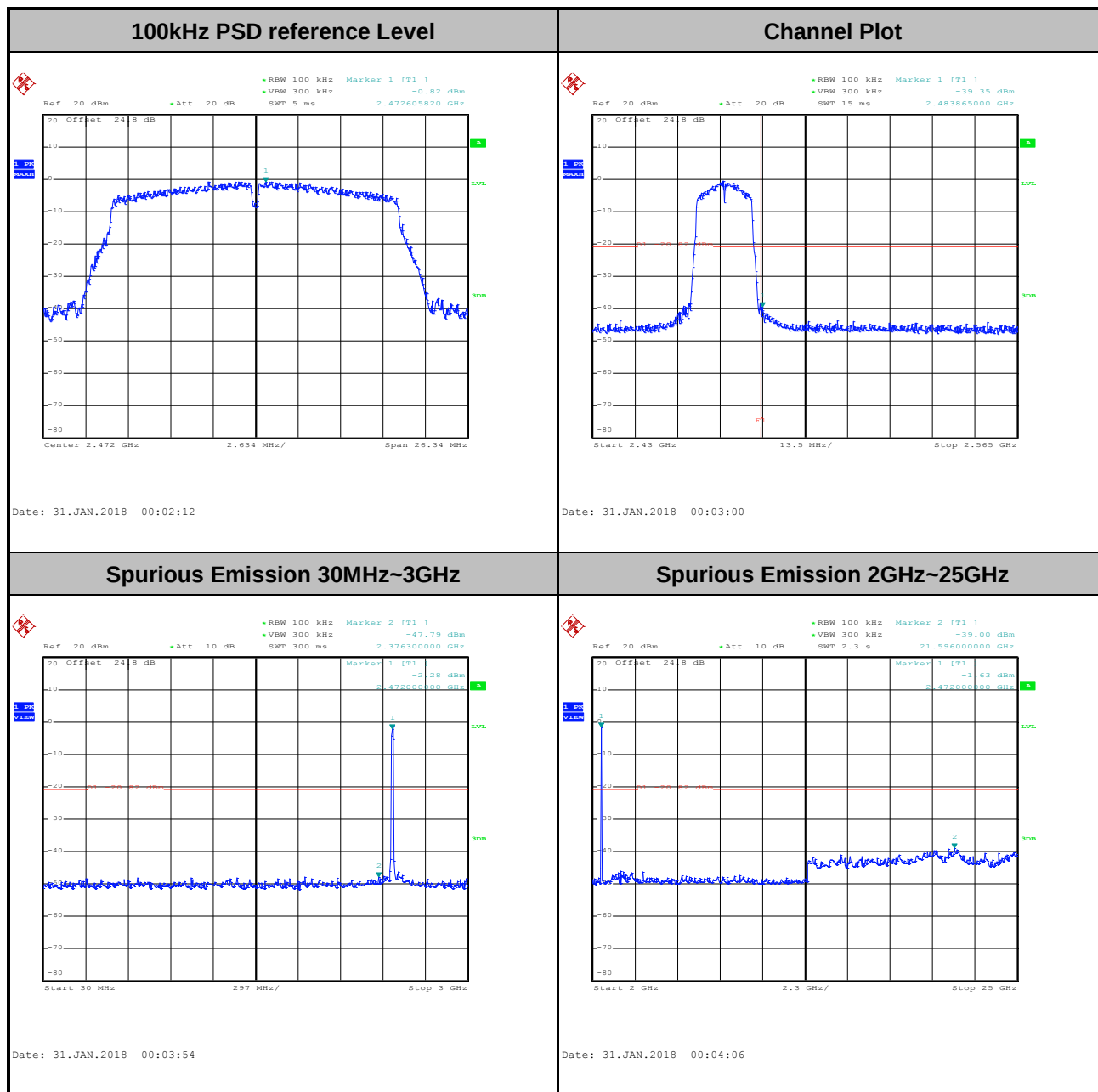


Test Mode :	802.11n HT20	Test Channel :	12
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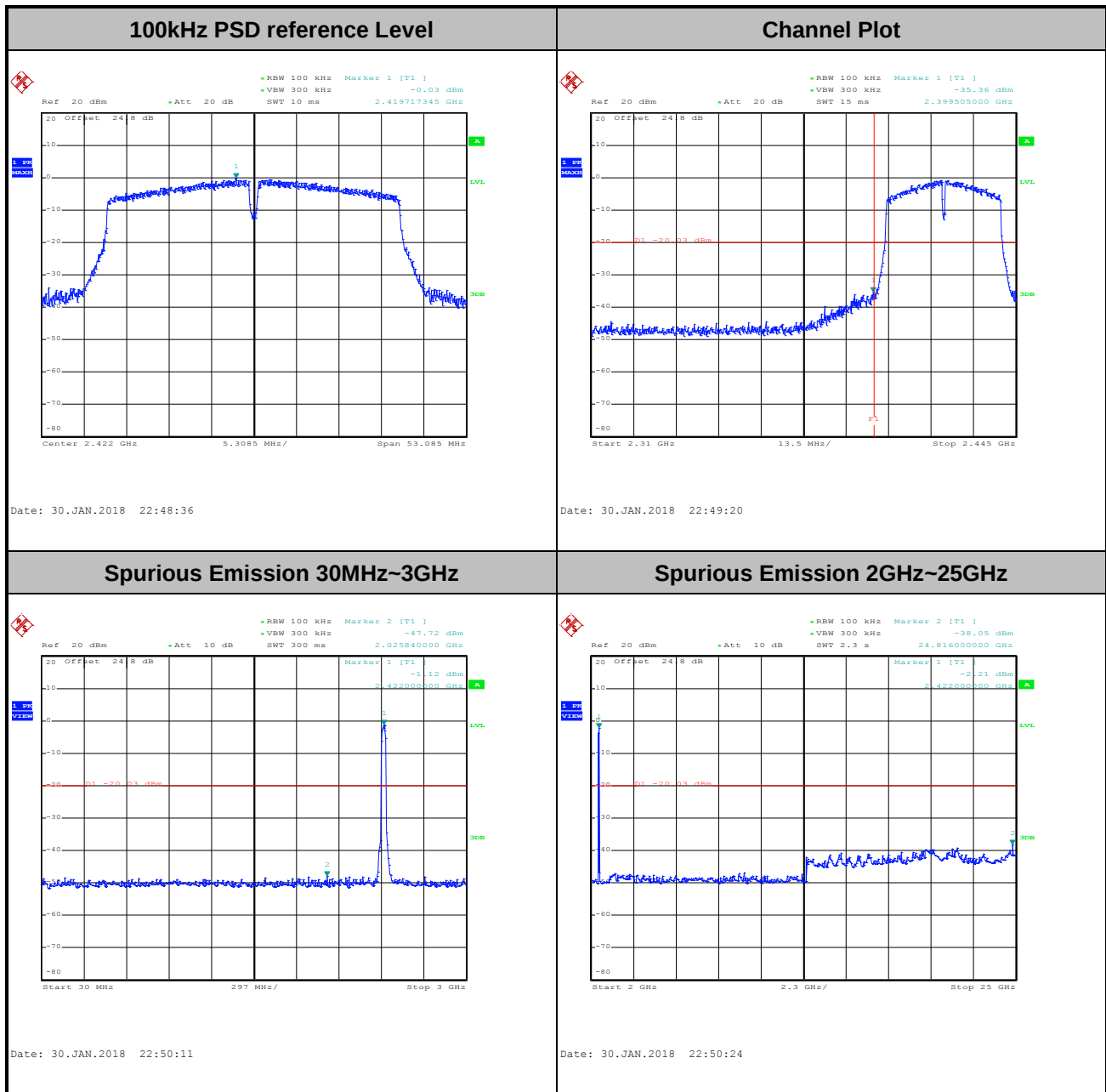


Test Mode :	802.11n HT20	Test Channel :	13
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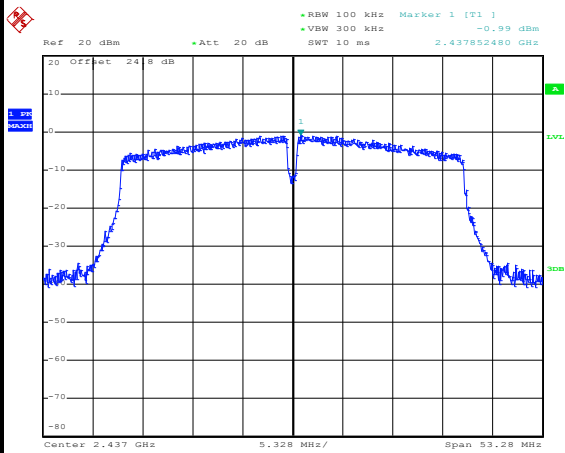
Test Mode :	802.11n HT40	Test Channel :	03
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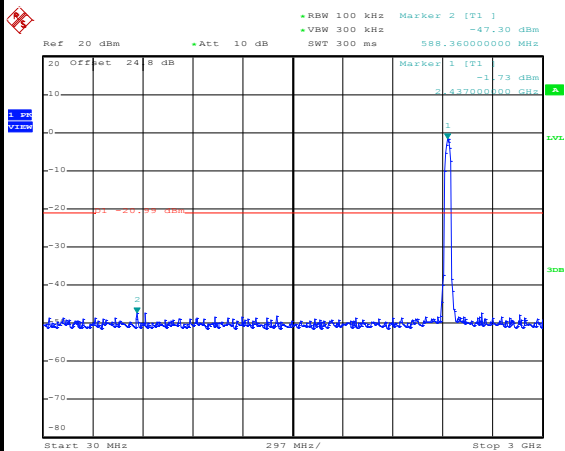
Test Mode :	802.11n HT40	Test Channel :	06
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100kHz PSD reference Level



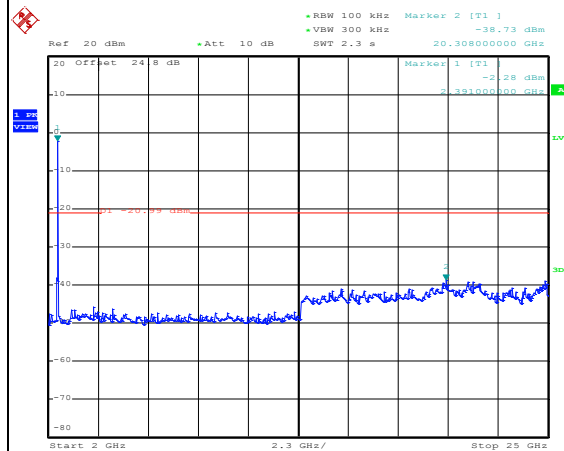
Date: 30.JAN.2018 22:54:32

Spurious Emission 30MHz~3GHz



Date: 30.JAN.2018 22:55:49

Spurious Emission 2GHz~25GHz



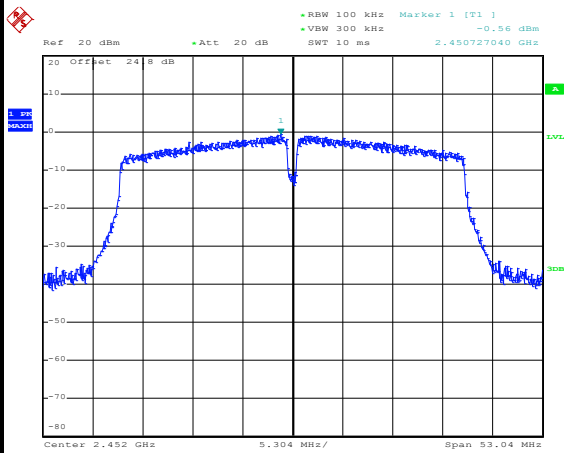
Date: 30.JAN.2018 22:56:36



Test Mode : 802.11n HT40

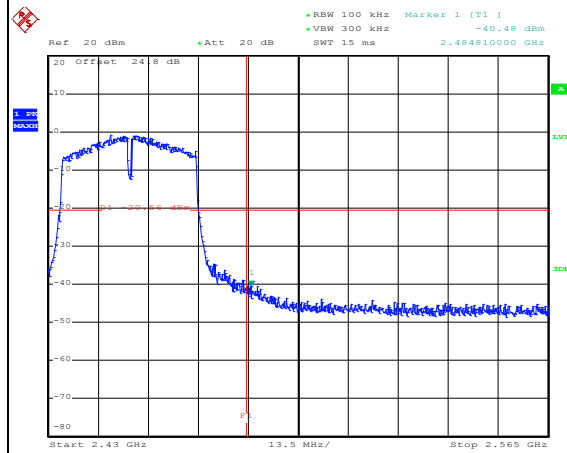
Test Channel : 09

100kHz PSD reference Level



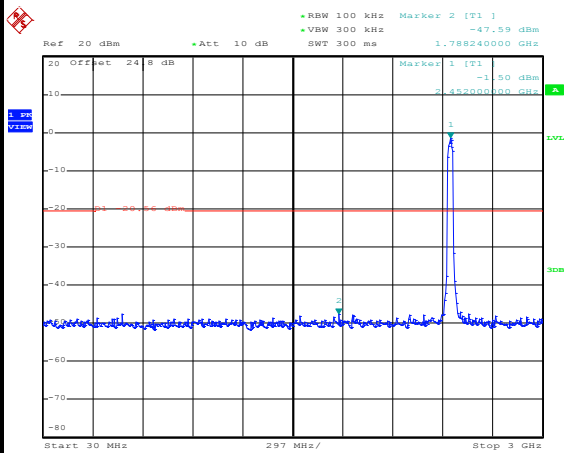
Date: 30.JAN.2018 22:58:47

Channel Plot



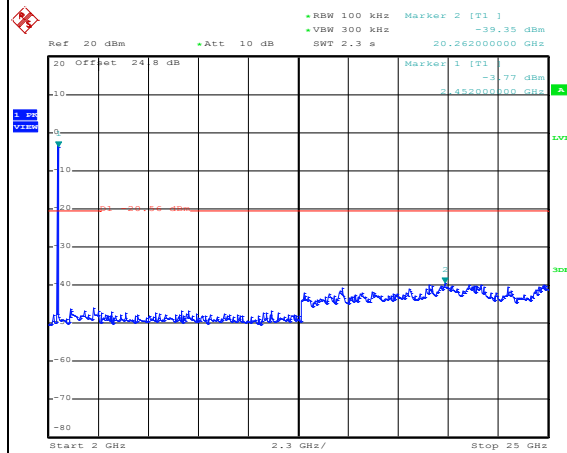
Date: 30.JAN.2018 22:59:04

Spurious Emission 30MHz~3GHz



Date: 30.JAN.2018 22:59:28

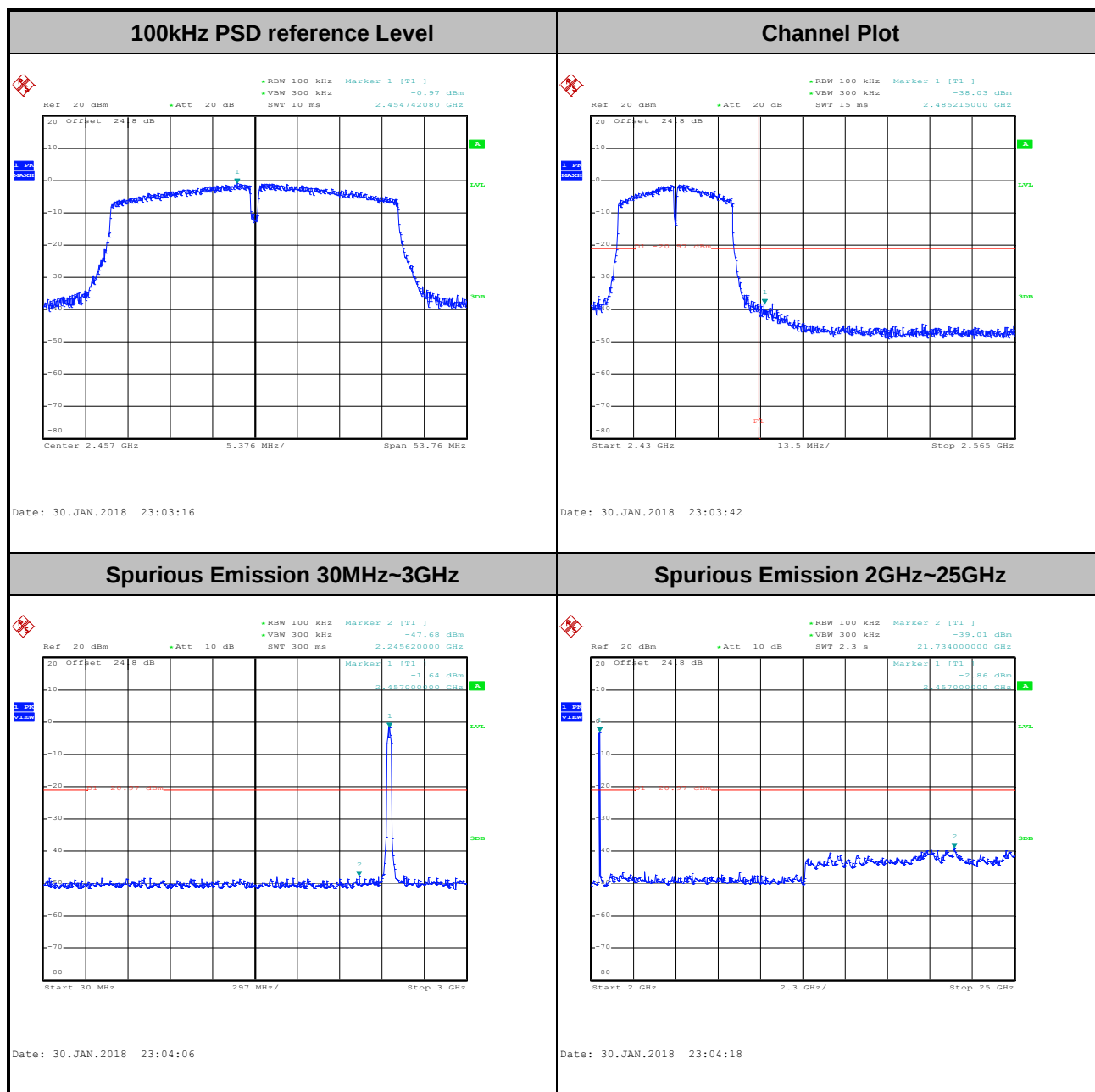
Spurious Emission 2GHz~25GHz



Date: 30.JAN.2018 22:59:40

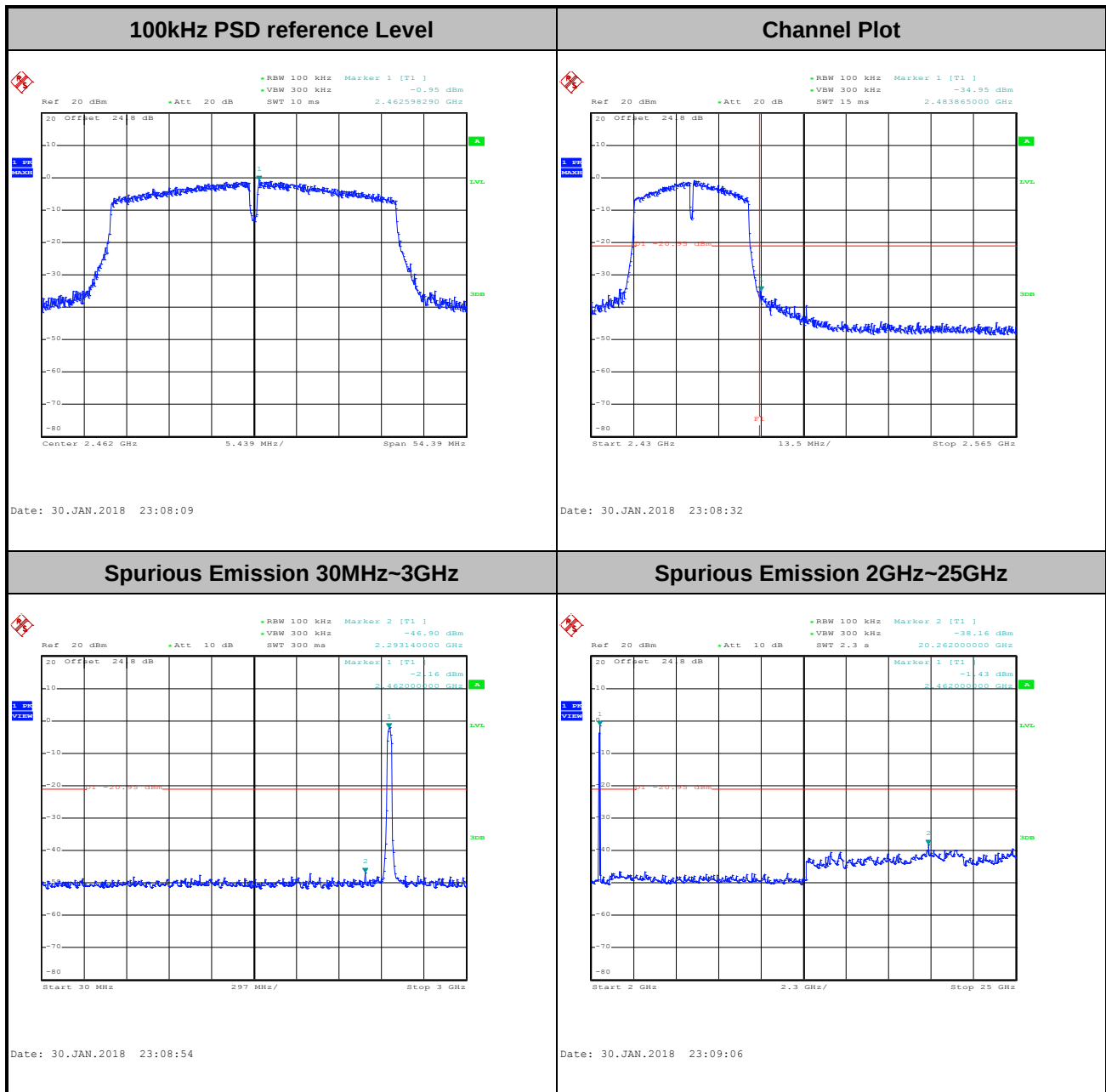


Test Mode :	802.11n HT40	Test Channel :	10
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Test Mode :	802.11n HT40	Test Channel :	11
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3.5 Radiated Band Edges and Spurious Emission Measurement

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

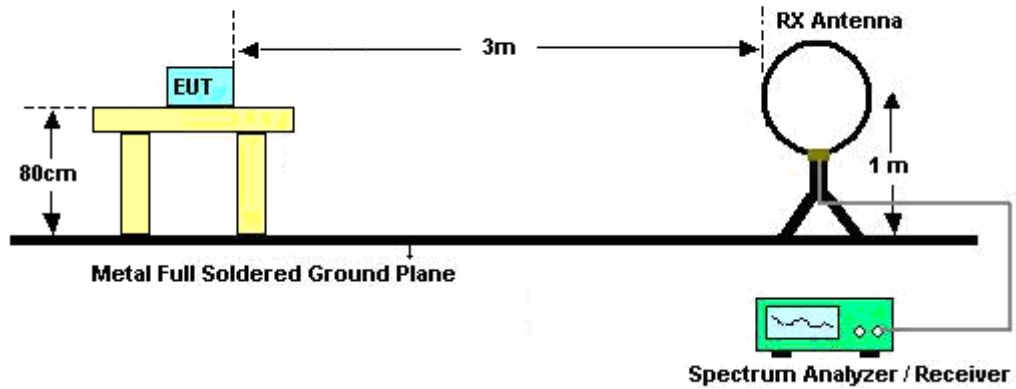
1. The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v04.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test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

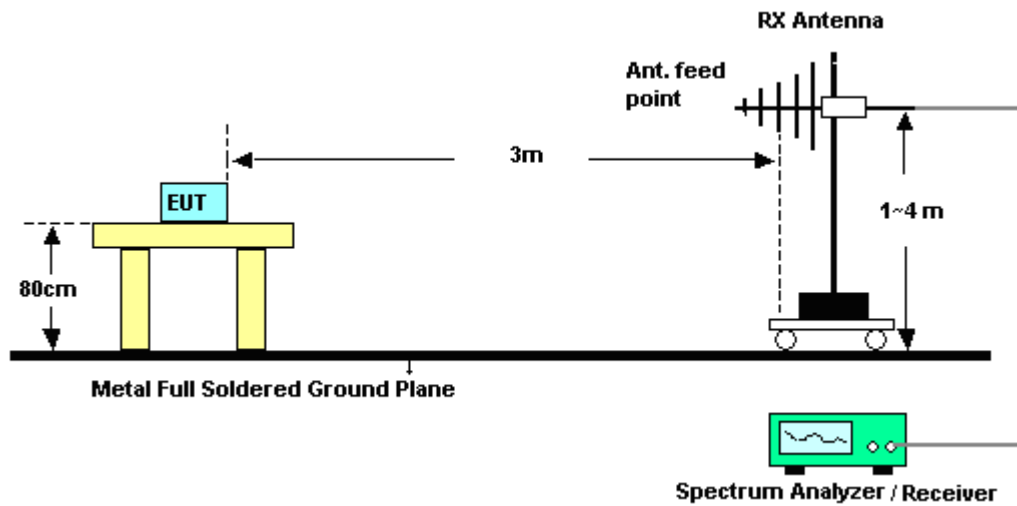
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

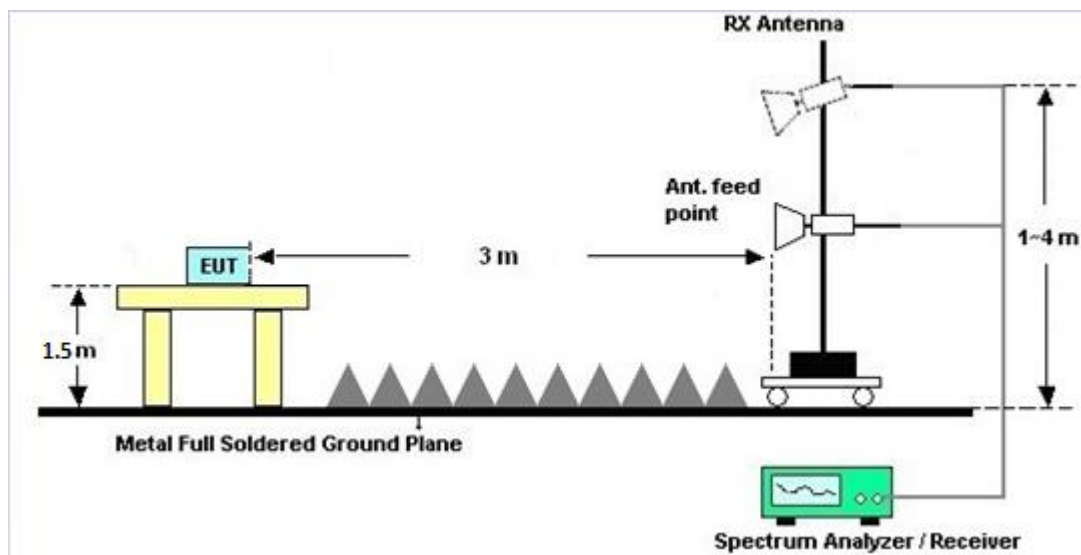
For radiated emissions below 30MHz



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 (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

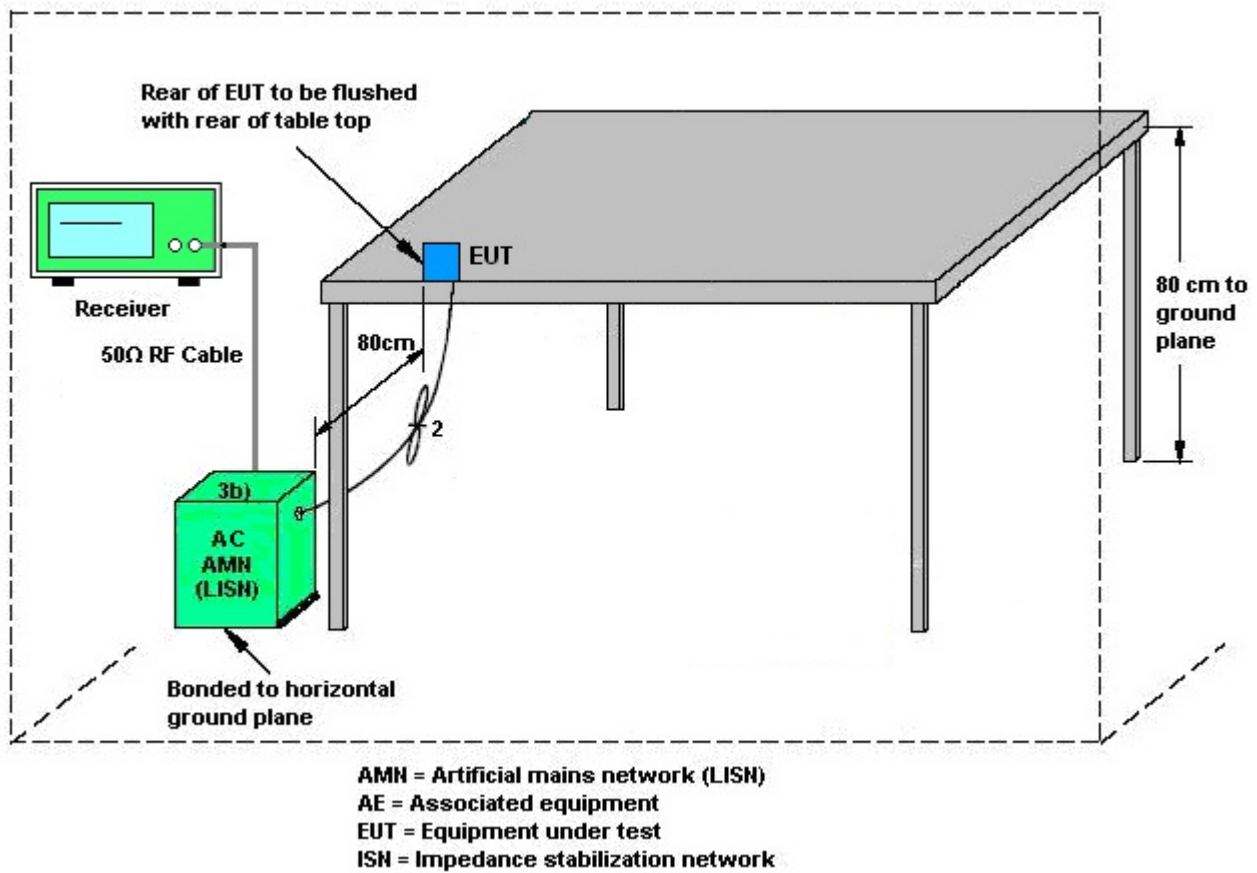
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

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

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

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. 25, 2018 ~ Jan. 30, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1207349	300MHz~40GHz z	Sep. 07, 2017	Jan. 25, 2018 ~ Jan. 30, 2018	Sep. 06, 2018	Conducted (TH05-HY)
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 20, 2017	Jan. 25, 2018 ~ Jan. 30, 2018	Jun. 19, 2018	Conducted (TH05-HY)
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Feb. 01, 2018	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESCI 7	100724	9kHz~7GHz	Sep. 20, 2017	Feb. 01, 2018	Sep. 19, 2018	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 30, 2017	Feb. 01, 2018	Nov. 29, 2018	Conduction (CO05-HY)
Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz, VSWR : 2.5:1 max	Jul. 18, 2017	Jan. 26, 2018 ~ Jan. 30, 2018	Jul. 17, 2018	Radiation (03CH11-HY)
Amplifier	SONOMA	310N	187312	9kHz~1GHz	Nov. 10, 2016	Jan. 26, 2018 ~ Jan. 30, 2018	Nov. 09, 2018	Radiation (03CH11-HY)
Bilog Antenna	TESEQ	CBL 6111D&N-6-06	35414&AT-N0602	30MHz~1GHz	Oct. 14, 2017	Jan. 26, 2018 ~ Jan. 30, 2018	Oct. 13, 2018	Radiation (03CH11-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-1326	1GHz ~ 18GHz	Oct. 16, 2017	Jan. 26, 2018 ~ Jan. 30, 2018	Oct. 15, 2018	Radiation (03CH11-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100488	9 kHz~30 MHz	Nov. 23, 2017	Jan. 26, 2018 ~ Jan. 30, 2018	Nov. 22, 2019	Radiation (03CH11-HY)
Preamplifier	Keysight	83017A	MY53270080	1GHz~26.5GHz	Nov. 10, 2016	Jan. 26, 2018 ~ Jan. 30, 2018	Nov. 09, 2018	Radiation (03CH11-HY)
Spectrum Analyzer	Keysight	N9010A	MY54200486	10Hz ~ 44GHz	Oct. 19, 2017	Jan. 26, 2018 ~ Jan. 30, 2018	Oct. 18, 2018	Radiation (03CH11-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jan. 26, 2018 ~ Jan. 30, 2018	N/A	Radiation (03CH11-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jan. 26, 2018 ~ Jan. 30, 2018	N/A	Radiation (03CH11-HY)
Preamplifier	MITEQ	AMF-7D-00101800	2025787	1GHZ~18GHZ	Feb. 13, 2017	Jan. 26, 2018 ~ Jan. 30, 2018	Feb. 12, 2018	Radiation (03CH11-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Nov. 27, 2017	Jan. 26, 2018 ~ Jan. 30, 2018	Nov. 26, 2018	Radiation (03CH11-HY)



5 Uncertainty of Evaluation

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.7
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.2
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.5
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

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

Test Engineer:	Shiang Wang / Kai Liao	Temperature:	21~25	°C
Test Date:	2018/1/25 ~ 2018/1/30	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	14.40	9.04	0.50	Pass
11b	1Mbps	1	6	2437	14.40	9.52	0.50	Pass
11b	1Mbps	1	11	2462	14.40	9.52	0.50	Pass
11b	1Mbps	1	12	2467	14.40	9.52	0.50	Pass
11b	1Mbps	1	13	2472	14.35	9.04	0.50	Pass
11g	6Mbps	1	1	2412	17.35	16.30	0.50	Pass
11g	6Mbps	1	6	2437	17.45	16.32	0.50	Pass
11g	6Mbps	1	11	2462	17.30	16.32	0.50	Pass
11g	6Mbps	1	12	2467	17.30	16.28	0.50	Pass
11g	6Mbps	1	13	2472	17.25	16.31	0.50	Pass
HT20	MCS0	1	1	2412	18.25	17.56	0.50	Pass
HT20	MCS0	1	6	2437	18.20	17.52	0.50	Pass
HT20	MCS0	1	11	2462	18.20	17.52	0.50	Pass
HT20	MCS0	1	12	2467	18.10	17.56	0.50	Pass
HT20	MCS0	1	13	2472	18.15	17.56	0.50	Pass
HT40	MCS0	1	3	2422	36.10	35.39	0.50	Pass
HT40	MCS0	1	6	2437	36.10	35.52	0.50	Pass
HT40	MCS0	1	9	2452	36.10	35.36	0.50	Pass
HT40	MCS0	1	10	2457	36.20	35.84	0.50	Pass
HT40	MCS0	1	11	2462	36.10	36.26	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	20.27	30.00	2.31	22.58	36.00	Pass
11b	1Mbps	1	6	2437	20.33	30.00	2.31	22.64	36.00	Pass
11b	1Mbps	1	11	2462	20.42	30.00	2.31	22.73	36.00	Pass
11b	1Mbps	1	12	2467	20.42	30.00	2.31	22.73	36.00	Pass
11b	1Mbps	1	13	2472	18.30	30.00	2.31	20.61	36.00	Pass
11g	6Mbps	1	1	2412	25.16	30.00	2.31	27.47	36.00	Pass
11g	6Mbps	1	6	2437	25.25	30.00	2.31	27.56	36.00	Pass
11g	6Mbps	1	11	2462	25.13	30.00	2.31	27.44	36.00	Pass
11g	6Mbps	1	12	2467	24.51	30.00	2.31	26.82	36.00	Pass
11g	6Mbps	1	13	2472	23.46	30.00	2.31	25.77	36.00	Pass
HT20	MCS0	1	1	2412	24.77	30.00	2.31	27.08	36.00	Pass
HT20	MCS0	1	6	2437	24.93	30.00	2.31	27.24	36.00	Pass
HT20	MCS0	1	11	2462	24.90	30.00	2.31	27.21	36.00	Pass
HT20	MCS0	1	12	2467	24.24	30.00	2.31	26.55	36.00	Pass
HT20	MCS0	1	13	2472	22.37	30.00	2.31	24.68	36.00	Pass
HT40	MCS0	1	3	2422	24.39	30.00	2.31	26.70	36.00	Pass
HT40	MCS0	1	6	2437	24.36	30.00	2.31	26.67	36.00	Pass
HT40	MCS0	1	9	2452	24.15	30.00	2.31	26.46	36.00	Pass
HT40	MCS0	1	10	2457	23.73	30.00	2.31	26.04	36.00	Pass
HT40	MCS0	1	11	2462	24.18	30.00	2.31	26.49	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	18.35
11b	1Mbps	1	6	2437	0.00	18.43
11b	1Mbps	1	11	2462	0.00	18.49
11b	1Mbps	1	12	2467	0.00	18.48
11b	1Mbps	1	13	2472	0.00	16.36
11g	6Mbps	1	1	2412	0.00	17.39
11g	6Mbps	1	6	2437	0.00	17.48
11g	6Mbps	1	11	2462	0.00	17.21
11g	6Mbps	1	12	2467	0.00	15.87
11g	6Mbps	1	13	2472	0.00	13.26
HT20	MCS0	1	1	2412	0.00	16.27
HT20	MCS0	1	6	2437	0.00	16.49
HT20	MCS0	1	11	2462	0.00	16.46
HT20	MCS0	1	12	2467	0.00	15.23
HT20	MCS0	1	13	2472	0.00	12.76
HT40	MCS0	1	3	2422	0.00	15.49
HT40	MCS0	1	6	2437	0.00	15.46
HT40	MCS0	1	9	2452	0.00	15.22
HT40	MCS0	1	10	2457	0.00	15.13
HT40	MCS0	1	11	2462	0.00	15.24

TEST RESULTS DATA
Peak Power Density

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-4.36	2.31	8.00	Pass
11b	1Mbps	1	6	2437	-4.85	2.31	8.00	Pass
11b	1Mbps	1	11	2462	-4.52	2.31	8.00	Pass
11b	1Mbps	1	12	2467	-4.54	2.31	8.00	Pass
11b	1Mbps	1	13	2472	-6.73	2.31	8.00	Pass
11g	6Mbps	1	1	2412	-7.77	2.31	8.00	Pass
11g	6Mbps	1	6	2437	-7.06	2.31	8.00	Pass
11g	6Mbps	1	11	2462	-8.15	2.31	8.00	Pass
11g	6Mbps	1	12	2467	-9.27	2.31	8.00	Pass
11g	6Mbps	1	13	2472	-11.26	2.31	8.00	Pass
HT20	MCS0	1	1	2412	-7.26	2.31	8.00	Pass
HT20	MCS0	1	6	2437	-7.84	2.31	8.00	Pass
HT20	MCS0	1	11	2462	-7.79	2.31	8.00	Pass
HT20	MCS0	1	12	2467	-9.35	2.31	8.00	Pass
HT20	MCS0	1	13	2472	-11.89	2.31	8.00	Pass
HT40	MCS0	1	3	2422	-12.48	2.31	8.00	Pass
HT40	MCS0	1	6	2437	-12.88	2.31	8.00	Pass
HT40	MCS0	1	9	2452	-12.67	2.31	8.00	Pass
HT40	MCS0	1	10	2457	-13.53	2.31	8.00	Pass
HT40	MCS0	1	11	2462	-12.82	2.31	8.00	Pass



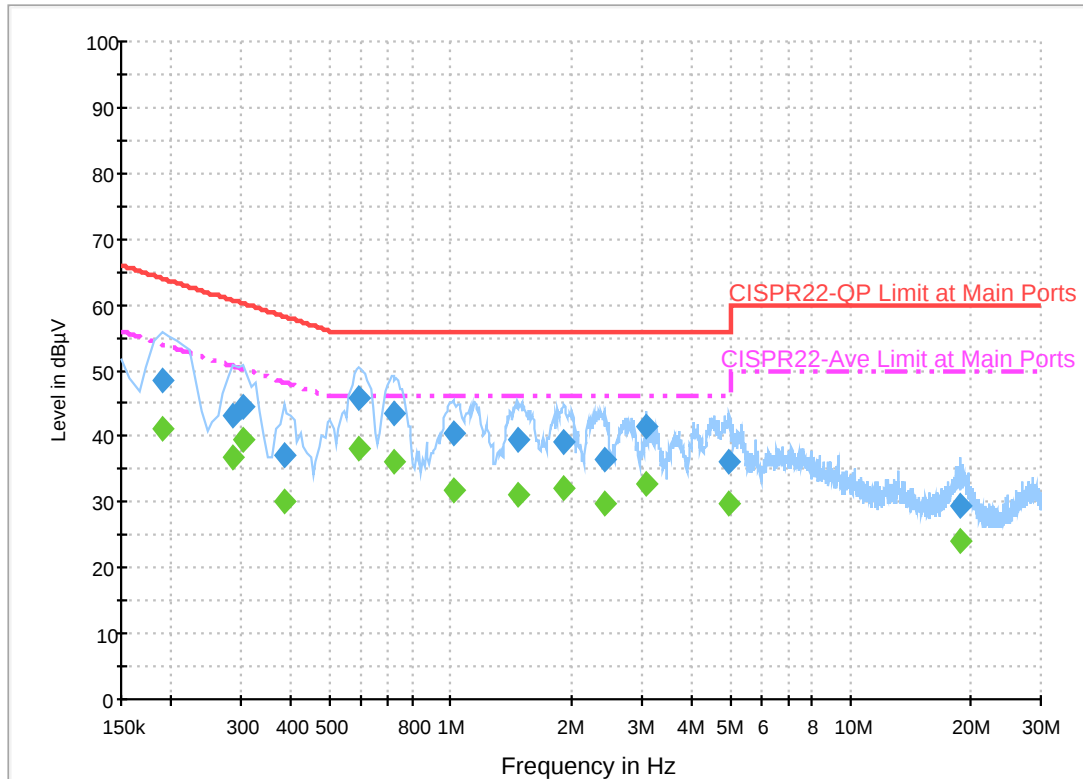
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Shareef Yu	Temperature :	23~25℃
		Relative Humidity :	58~62%

EUT Information

Report NO : 812005
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

ENV216 Auto Test FCC Power Bar - L



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.190000	48.4	Off	L1	19.5	15.6	64.0
0.286000	43.1	Off	L1	19.5	17.5	60.6
0.302000	44.6	Off	L1	19.5	15.6	60.2
0.382000	37.1	Off	L1	19.5	21.1	58.2
0.590000	45.9	Off	L1	19.5	10.1	56.0
0.718000	43.6	Off	L1	19.5	12.4	56.0
1.014000	40.4	Off	L1	19.5	15.6	56.0
1.478000	39.4	Off	L1	19.6	16.6	56.0
1.926000	39.1	Off	L1	19.6	16.9	56.0
2.422000	36.4	Off	L1	19.5	19.6	56.0
3.078000	41.3	Off	L1	19.6	14.7	56.0
4.998000	36.2	Off	L1	19.6	19.8	56.0
18.838000	29.3	Off	L1	19.8	30.7	60.0

Final Result 2

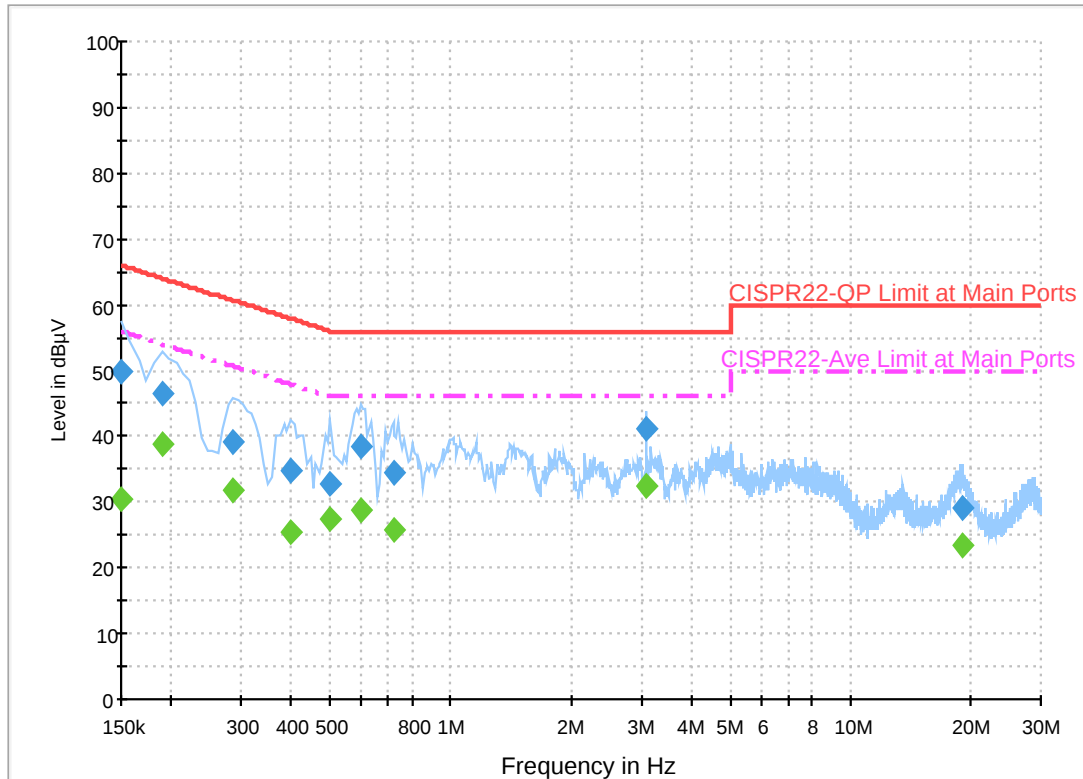
Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.190000	41.2	Off	L1	19.5	12.8	54.0
0.286000	36.8	Off	L1	19.5	13.8	50.6
0.302000	39.5	Off	L1	19.5	10.7	50.2
0.382000	30.1	Off	L1	19.5	18.1	48.2
0.590000	38.2	Off	L1	19.5	7.8	46.0

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.718000	36.0	Off	L1	19.5	10.0	46.0
1.014000	31.6	Off	L1	19.5	14.4	46.0
1.478000	31.2	Off	L1	19.6	14.8	46.0
1.926000	32.1	Off	L1	19.6	13.9	46.0
2.422000	29.8	Off	L1	19.5	16.2	46.0
3.078000	32.7	Off	L1	19.6	13.3	46.0
4.998000	29.8	Off	L1	19.6	16.2	46.0
18.838000	24.0	Off	L1	19.8	26.0	50.0

EUT Information

Report NO : 812005
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

ENV216 Auto Test FCC Power Bar - N



Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	49.9	Off	N	19.5	16.1	66.0
0.190000	46.6	Off	N	19.5	17.4	64.0
0.286000	39.3	Off	N	19.5	21.3	60.6
0.398000	34.8	Off	N	19.5	23.1	57.9
0.502000	32.8	Off	N	19.5	23.2	56.0
0.598000	38.4	Off	N	19.5	17.6	56.0
0.718000	34.5	Off	N	19.5	21.5	56.0
3.078000	41.1	Off	N	19.6	14.9	56.0
19.038000	29.0	Off	N	19.9	31.0	60.0

Final Result 2

Frequency (MHz)	Average (dBμV)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	30.4	Off	N	19.5	25.6	56.0
0.190000	38.7	Off	N	19.5	15.3	54.0
0.286000	31.8	Off	N	19.5	18.8	50.6
0.398000	25.3	Off	N	19.5	22.6	47.9
0.502000	27.5	Off	N	19.5	18.5	46.0
0.598000	28.8	Off	N	19.5	17.2	46.0
0.718000	25.7	Off	N	19.5	20.3	46.0
3.078000	32.5	Off	N	19.6	13.5	46.0
19.038000	23.5	Off	N	19.9	26.5	50.0



Appendix C. Radiated Spurious Emission

Test Engineer :	Hao Hsu, Jacky Hung, and Ken Wu	Temperature :	21~26°C
		Relative Humidity :	51~56%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2386.965	53.54	-20.46	74	43.72	27.13	6.36	33.6	330	238	P	H
		2390	44.04	-9.96	54	34.21	27.13	6.36	33.59	330	238	A	H
	*	2412	106.39	-	-	96.5	27.18	6.37	33.59	330	238	P	H
	*	2412	103.2	-	-	93.31	27.18	6.37	33.59	330	238	A	H
		2386.23	55.56	-18.44	74	45.74	27.13	6.36	33.6	115	330	P	V
		2390	45.6	-8.4	54	35.77	27.13	6.36	33.59	115	330	A	V
	*	2412	109.86	-	-	99.97	27.18	6.37	33.59	115	330	P	V
	*	2412	106.87	-	-	96.98	27.18	6.37	33.59	115	330	A	V
802.11b CH 06 2437MHz		2386.64	52.22	-21.78	74	42.4	27.13	6.36	33.6	284	113	P	H
		2387.12	42	-12	54	32.18	27.13	6.36	33.6	284	113	A	H
	*	2437	107.04	-	-	97.05	27.27	6.38	33.59	284	113	P	H
	*	2437	103.96	-	-	93.97	27.27	6.38	33.59	284	113	A	H
		2492	54.59	-19.41	74	44.44	27.4	6.39	33.57	284	113	P	H
		2483.76	43.5	-10.5	54	33.41	27.36	6.38	33.58	284	113	A	H
		2381.84	54.2	-19.8	74	44.42	27.09	6.36	33.6	100	329	P	V
		2382	43.82	-10.18	54	34.04	27.09	6.36	33.6	100	329	A	V
	*	2437	109.52	-	-	99.53	27.27	6.38	33.59	100	329	P	V
	*	2437	106.44	-	-	96.45	27.27	6.38	33.59	100	329	A	V
		2496.8	54.51	-19.49	74	44.36	27.4	6.39	33.57	100	329	P	V
		2496.56	44.48	-9.52	54	34.33	27.4	6.39	33.57	100	329	A	V



802.11b CH 11 2462MHz	*	2462	106.86	-	-	96.82	27.31	6.38	33.58	280	109	P	H
	*	2462	103.76	-	-	93.72	27.31	6.38	33.58	280	109	A	H
		2499.4	55.91	-18.09	74	45.76	27.4	6.39	33.57	280	109	P	H
		2499.32	45.57	-8.43	54	35.42	27.4	6.39	33.57	280	109	A	H
	*	2462	109.25	-	-	99.21	27.31	6.38	33.58	103	329	P	V
	*	2462	106.1	-	-	96.06	27.31	6.38	33.58	103	329	A	V
		2499.12	56.29	-17.71	74	46.14	27.4	6.39	33.57	103	329	P	V
		2499.44	46.13	-7.87	54	35.98	27.4	6.39	33.57	103	329	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz	*	2467	106.25	-	-	96.21	27.31	6.38	33.58	103	119	P	H
	*	2467	103.17	-	-	93.13	27.31	6.38	33.58	103	119	A	H
		2483.92	58.11	-15.89	74	48.02	27.36	6.38	33.58	103	119	P	H
		2483.52	51.1	-2.9	54	41.01	27.36	6.38	33.58	103	119	A	H
	*	2467	109.14	-	-	99.1	27.31	6.38	33.58	104	328	P	V
	*	2467	106.03	-	-	95.99	27.31	6.38	33.58	104	328	A	V
		2483.92	59.76	-14.24	74	49.67	27.36	6.38	33.58	104	328	P	V
		2483.52	52.73	-1.27	54	42.64	27.36	6.38	33.58	104	328	A	V
802.11b CH 13 2472MHz	*	2472	103.71	-	-	93.62	27.36	6.38	33.58	103	120	P	H
	*	2472	100.53	-	-	90.44	27.36	6.38	33.58	103	120	A	H
		2487.04	57.79	-16.21	74	47.69	27.36	6.39	33.58	103	120	P	H
		2487.4	50.99	-3.01	54	40.89	27.36	6.39	33.58	103	120	A	H
	*	2472	106.24	-	-	96.15	27.36	6.38	33.58	104	329	P	V
	*	2472	103.1	-	-	93.01	27.36	6.38	33.58	104	329	A	V
		2485	59.01	-14.99	74	48.91	27.36	6.39	33.58	104	329	P	V
		2487.36	53.07	-0.93	54	42.97	27.36	6.39	33.58	104	329	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	41.23	-32.77	74	64.66	31.29	9.59	64.74	100	0	P	H
		4824	43.35	-30.65	74	66.78	31.29	9.59	64.74	100	0	P	V
802.11b CH 06 2437MHz		4874	43.32	-30.68	74	66.65	31.38	9.56	64.7	100	0	P	H
		7311	42.79	-31.21	74	59.56	36.28	11.31	64.82	100	0	P	H
		4874	46	-28	74	69.33	31.38	9.56	64.7	100	0	P	V
		7311	42.65	-31.35	74	59.42	36.28	11.31	64.82	100	0	P	V
802.11b CH 11 2462MHz		4924	43.55	-30.45	74	66.74	31.48	9.55	64.66	100	0	P	H
		7386	42.69	-31.31	74	59.4	36.47	11.3	64.86	100	0	P	H
		4924	45.27	-28.73	74	68.46	31.48	9.55	64.66	100	0	P	V
		7386	41.97	-32.03	74	58.68	36.47	11.3	64.86	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 12 2467MHz		4934	41.2	-32.8	74	64.4	31.48	9.54	64.66	100	0	P	H
		7401	41.84	-32.16	74	58.54	36.51	11.29	64.87	100	0	P	H
		4934	42.21	-31.79	74	65.41	31.48	9.54	64.66	100	0	P	V
		7401	42.08	-31.92	74	58.78	36.51	11.29	64.87	100	0	P	V
802.11b CH 13 2472MHz		4944	39.91	-34.09	74	63.06	31.51	9.54	64.64	100	0	P	H
		7416	42.67	-31.33	74	59.34	36.51	11.32	64.87	100	0	P	H
		4944	40.86	-33.14	74	64.01	31.51	9.54	64.64	100	0	P	V
		7416	42.05	-31.95	74	58.72	36.51	11.32	64.87	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2390	65.65	-8.35	74	55.82	27.13	6.36	33.59	111	260	P	H
		2390	50.61	-3.39	54	40.78	27.13	6.36	33.59	111	260	A	H
	*	2412	108.3	-	-	98.41	27.18	6.37	33.59	111	260	P	H
	*	2412	100.46	-	-	90.57	27.18	6.37	33.59	111	260	A	H
		2390	66.37	-7.63	74	56.54	27.13	6.36	33.59	117	332	P	V
		2390	51.43	-2.57	54	41.6	27.13	6.36	33.59	117	332	A	V
	*	2412	109.89	-	-	100	27.18	6.37	33.59	117	332	P	V
	*	2412	102.54	-	-	92.65	27.18	6.37	33.59	117	332	A	V
802.11g CH 06 2437MHz		2371.92	54.52	-19.48	74	44.81	27.09	6.29	33.6	100	141	P	H
		2390	43.35	-10.65	54	33.52	27.13	6.36	33.59	100	141	A	H
	*	2437	107.52	-	-	97.53	27.27	6.38	33.59	100	141	P	H
	*	2437	100.31	-	-	90.32	27.27	6.38	33.59	100	141	A	H
		2488.88	54.95	-19.05	74	44.81	27.4	6.39	33.58	100	141	P	H
		2483.84	44.38	-9.62	54	34.29	27.36	6.38	33.58	100	141	A	H
		2377.2	55.39	-18.61	74	45.68	27.09	6.29	33.6	104	309	P	V
		2389.52	44.91	-9.09	54	35.09	27.13	6.36	33.6	104	309	A	V
	*	2437	109.47	-	-	99.48	27.27	6.38	33.59	104	309	P	V
	*	2437	102.08	-	-	92.09	27.27	6.38	33.59	104	309	A	V
		2489.36	55.38	-18.62	74	45.24	27.4	6.39	33.58	104	309	P	V
		2483.6	45.01	-8.99	54	34.92	27.36	6.38	33.58	104	309	A	V



802.11g CH 11 2462MHz	*	2462	107.96	-	-	97.92	27.31	6.38	33.58	113	119	P	H
	*	2462	100.33	-	-	90.29	27.31	6.38	33.58	113	119	A	H
		2483.84	61.8	-12.2	74	51.71	27.36	6.38	33.58	113	119	P	H
		2483.52	48.27	-5.73	54	38.18	27.36	6.38	33.58	113	119	A	H
	*	2462	108.49	-	-	98.45	27.31	6.38	33.58	126	29	P	V
	*	2462	100.95	-	-	90.91	27.31	6.38	33.58	126	29	A	V
		2484.16	60.98	-13.02	74	50.89	27.36	6.38	33.58	126	29	P	V
		2483.52	48.23	-5.77	54	38.14	27.36	6.38	33.58	126	29	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz	*	2467	104.36	-	-	94.32	27.31	6.38	33.58	104	138	P	H
	*	2467	97.26	-	-	87.22	27.31	6.38	33.58	104	138	A	H
		2483.64	70.41	-3.59	74	60.32	27.36	6.38	33.58	104	138	P	H
		2483.52	53.01	-0.99	54	42.92	27.36	6.38	33.58	104	138	A	H
	*	2467	106.8	-	-	96.76	27.31	6.38	33.58	103	311	P	V
	*	2467	99.48	-	-	89.44	27.31	6.38	33.58	103	311	A	V
		2483.64	70.85	-3.15	74	60.76	27.36	6.38	33.58	103	311	P	V
		2483.52	53.48	-0.52	54	43.39	27.36	6.38	33.58	103	311	A	V
802.11g CH 13 2472MHz	*	2472	104.55	-	-	94.46	27.36	6.38	33.58	103	124	P	H
	*	2472	96.64	-	-	86.55	27.36	6.38	33.58	103	124	A	H
		2484.44	68.73	-5.27	74	58.63	27.36	6.39	33.58	103	124	P	H
		2484.04	52.49	-1.51	54	42.4	27.36	6.38	33.58	103	124	A	H
	*	2472	102.95	-	-	92.86	27.36	6.38	33.58	103	309	P	V
	*	2472	95.39	-	-	85.3	27.36	6.38	33.58	103	309	A	V
		2483.76	68.12	-5.88	74	58.03	27.36	6.38	33.58	103	309	P	V
		2484.16	50.56	-3.44	54	40.47	27.36	6.38	33.58	103	309	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	39.89	-34.11	74	63.32	31.29	9.59	64.74	100	0	P	H
		4824	40.66	-33.34	74	64.09	31.29	9.59	64.74	100	0	P	V
802.11g CH 06 2437MHz		4874	40.91	-33.09	74	64.24	31.38	9.56	64.7	100	0	P	H
		7311	43.28	-30.72	74	60.05	36.28	11.31	64.82	100	0	P	H
		4874	41.27	-32.73	74	64.6	31.38	9.56	64.7	100	0	P	V
		7311	43.49	-30.51	74	60.26	36.28	11.31	64.82	100	0	P	V
802.11g CH 11 2462MHz		4924	39.87	-34.13	74	63.06	31.48	9.55	64.66	100	0	P	H
		7386	44.06	-29.94	74	60.77	36.47	11.3	64.86	100	0	P	H
		4924	39.86	-34.14	74	63.05	31.48	9.55	64.66	100	0	P	V
		7386	42.21	-31.79	74	58.92	36.47	11.3	64.86	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 12 2467MHz		4934	40.02	-33.98	74	63.22	31.48	9.54	64.66	100	0	P	H
		7401	41.28	-32.72	74	57.98	36.51	11.29	64.87	100	0	P	H
		4934	43.54	-30.46	74	66.74	31.48	9.54	64.66	100	0	P	V
		7401	41.34	-32.66	74	58.04	36.51	11.29	64.87	100	0	P	V
802.11g CH 13 2472MHz		4944	39.67	-34.33	74	62.82	31.51	9.54	64.64	100	0	P	H
		7416	42.5	-31.5	74	59.17	36.51	11.32	64.87	100	0	P	H
		4944	41.03	-32.97	74	64.18	31.51	9.54	64.64	100	0	P	V
		7416	42.07	-31.93	74	58.74	36.51	11.32	64.87	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.695	61.46	-12.54	74	51.64	27.13	6.36	33.6	107	142	P	H
		2390	48.57	-5.43	54	38.74	27.13	6.36	33.59	107	142	A	H
	*	2412	106.04	-	-	96.15	27.18	6.37	33.59	107	142	P	H
	*	2412	98.57	-	-	88.68	27.18	6.37	33.59	107	142	A	H
		2390	69.73	-4.27	74	59.9	27.13	6.36	33.59	100	327	P	V
		2390	50.58	-3.42	54	40.75	27.13	6.36	33.59	100	327	A	V
	*	2412	108.27	-	-	98.38	27.18	6.37	33.59	100	327	P	V
	*	2412	99.86	-	-	89.97	27.18	6.37	33.59	100	327	A	V
802.11n HT20 CH 06 2437MHz		2361.2	51.89	-22.11	74	42.23	27.04	6.29	33.6	283	125	P	H
		2389.68	41.63	-12.37	54	31.81	27.13	6.36	33.6	283	125	A	H
	*	2437	105.9	-	-	95.91	27.27	6.38	33.59	283	125	P	H
	*	2437	98.36	-	-	88.37	27.27	6.38	33.59	283	125	A	H
		2492.16	53.13	-20.87	74	42.98	27.4	6.39	33.57	283	125	P	H
		2484.16	42.82	-11.18	54	32.73	27.36	6.38	33.58	283	125	A	H
		2377.84	53.41	-20.59	74	43.7	27.09	6.29	33.6	109	331	P	V
		2378	43.35	-10.65	54	33.64	27.09	6.29	33.6	109	331	A	V
	*	2437	108.12	-	-	98.13	27.27	6.38	33.59	109	331	P	V
	*	2437	100.54	-	-	90.55	27.27	6.38	33.59	109	331	A	V
		2493.28	54.89	-19.11	74	44.74	27.4	6.39	33.57	109	331	P	V
		2496.48	44.2	-9.8	54	34.05	27.4	6.39	33.57	109	331	A	V



802.11n HT20 CH 11 2462MHz	*	2462	105.85	-	-	95.81	27.31	6.38	33.58	106	120	P	H
	*	2462	98.48	-	-	88.44	27.31	6.38	33.58	106	120	A	H
		2484.24	65.35	-8.65	74	55.25	27.36	6.39	33.58	106	120	P	H
		2483.52	49.39	-4.61	54	39.3	27.36	6.38	33.58	106	120	A	H
	*	2462	108.08	-	-	98.04	27.31	6.38	33.58	100	332	P	V
	*	2462	100.47	-	-	90.43	27.31	6.38	33.58	100	332	A	V
		2484.88	65.99	-8.01	74	55.89	27.36	6.39	33.58	100	332	P	V
		2483.52	50.56	-3.44	54	40.47	27.36	6.38	33.58	100	332	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 12 2467MHz	*	2467	103.99	-	-	93.95	27.31	6.38	33.58	103	138	P	H
	*	2467	96.33	-	-	86.29	27.31	6.38	33.58	103	138	A	H
		2484.04	66.74	-7.26	74	56.65	27.36	6.38	33.58	103	138	P	H
		2483.52	51.76	-2.24	54	41.67	27.36	6.38	33.58	103	138	A	H
	*	2467	106.19	-	-	96.15	27.31	6.38	33.58	103	310	P	V
	*	2467	98.9	-	-	88.86	27.31	6.38	33.58	103	310	A	V
		2483.92	71.63	-2.37	74	61.54	27.36	6.38	33.58	103	310	P	V
		2483.52	52.47	-1.53	54	42.38	27.36	6.38	33.58	103	310	A	V
802.11n HT20 CH 13 2472MHz	*	2472	102.99	-	-	92.9	27.36	6.38	33.58	104	121	P	H
	*	2472	95.61	-	-	85.52	27.36	6.38	33.58	104	121	A	H
		2483.6	64.08	-9.92	74	53.99	27.36	6.38	33.58	104	121	P	H
		2483.52	52.15	-1.85	54	42.06	27.36	6.38	33.58	104	121	A	H
	*	2472	101.55	-	-	91.46	27.36	6.38	33.58	133	332	P	V
	*	2472	93.97	-	-	83.88	27.36	6.38	33.58	133	332	A	V
		2483.88	64	-10	74	53.91	27.36	6.38	33.58	133	332	P	V
		2483.52	50.26	-3.74	54	40.17	27.36	6.38	33.58	133	332	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	40.4	-33.6	74	63.83	31.29	9.59	64.74	100	0	P	H
		4824	40.37	-33.63	74	63.8	31.29	9.59	64.74	100	0	P	V
802.11n HT20 CH 06 2437MHz		4874	40.58	-33.42	74	63.91	31.38	9.56	64.7	100	0	P	H
		7311	43.69	-30.31	74	60.46	36.28	11.31	64.82	100	0	P	H
		4874	41.69	-32.31	74	65.02	31.38	9.56	64.7	100	0	P	V
		7311	42.42	-31.58	74	59.19	36.28	11.31	64.82	100	0	P	V
802.11n HT20 CH 11 2462MHz		4924	40.71	-33.29	74	63.9	31.48	9.55	64.66	100	0	P	H
		7386	42.01	-31.99	74	58.72	36.47	11.3	64.86	100	0	P	H
		4924	41.34	-32.66	74	64.53	31.48	9.55	64.66	100	0	P	V
		7386	42.03	-31.97	74	58.74	36.47	11.3	64.86	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		4934	39.24	-34.76	74	62.44	31.48	9.54	64.66	100	0	P	H
HT20		7401	41.03	-32.97	74	57.73	36.51	11.29	64.87	100	0	P	H
CH 12		4934	40.52	-33.48	74	63.72	31.48	9.54	64.66	100	0	P	V
2467MHz		7401	41.88	-32.12	74	58.58	36.51	11.29	64.87	100	0	P	V
802.11n		4944	40.15	-33.85	74	63.3	31.51	9.54	64.64	100	0	P	H
HT20		7416	44.09	-29.91	74	60.76	36.51	11.32	64.87	100	0	P	H
CH 13		4944	41.84	-32.16	74	64.99	31.51	9.54	64.64	100	0	P	V
2472MHz		7416	41.54	-32.46	74	58.21	36.51	11.32	64.87	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.2	55.24	-18.76	74	45.42	27.13	6.36	33.6	108	141	P	H
		2390	44.81	-9.19	54	34.98	27.13	6.36	33.59	108	141	A	H
	*	2422	99.27	-	-	89.34	27.22	6.37	33.59	108	141	P	H
	*	2422	91.67	-	-	81.74	27.22	6.37	33.59	108	141	A	H
		2483.6	54.41	-19.59	74	44.32	27.36	6.38	33.58	108	141	P	H
		2483.84	43.44	-10.56	54	33.35	27.36	6.38	33.58	108	141	A	H
		2390	56.58	-17.42	74	46.75	27.13	6.36	33.59	113	311	P	V
		2390	46.09	-7.91	54	36.26	27.13	6.36	33.59	113	311	A	V
	*	2422	101.34	-	-	91.41	27.22	6.37	33.59	113	311	P	V
	*	2422	93.91	-	-	83.98	27.22	6.37	33.59	113	311	A	V
		2494.32	53.61	-20.39	74	43.46	27.4	6.39	33.57	113	311	P	V
		2494.32	43.49	-10.51	54	33.34	27.4	6.39	33.57	113	311	A	V
802.11n HT40 CH 06 2437MHz		2389.84	53.52	-20.48	74	43.69	27.13	6.36	33.59	311	116	P	H
		2389.04	42	-12	54	32.18	27.13	6.36	33.6	311	116	A	H
	*	2437	98.09	-	-	88.1	27.27	6.38	33.59	311	116	P	H
	*	2437	90.56	-	-	80.57	27.27	6.38	33.59	311	116	A	H
		2488.64	53.65	-20.35	74	43.51	27.4	6.39	33.58	311	116	P	H
		2483.6	43.7	-10.3	54	33.61	27.36	6.38	33.58	311	116	A	H
		2379.92	53.86	-20.14	74	44.15	27.09	6.29	33.6	104	309	P	V
		2389.52	43.79	-10.21	54	33.97	27.13	6.36	33.6	104	309	A	V
	*	2437	101.34	-	-	91.35	27.27	6.38	33.59	104	309	P	V
	*	2437	93.83	-	-	83.84	27.27	6.38	33.59	104	309	A	V
		2497.84	54.63	-19.37	74	44.48	27.4	6.39	33.57	104	309	P	V
		2484.64	43.6	-10.4	54	33.5	27.36	6.39	33.58	104	309	A	V



802.11n HT40 CH 09 2452MHz		2383.44	52.89	-21.11	74	43.11	27.09	6.36	33.6	107	138	P	H
		2388.72	42.11	-11.89	54	32.29	27.13	6.36	33.6	107	138	A	H
	*	2452	98.19	-	-	88.19	27.27	6.38	33.58	107	138	P	H
	*	2452	90.67	-	-	80.67	27.27	6.38	33.58	107	138	A	H
		2484.48	54.27	-19.73	74	44.17	27.36	6.39	33.58	107	138	P	H
		2484	44.63	-9.37	54	34.54	27.36	6.38	33.58	107	138	A	H
		2378.32	52.96	-21.04	74	43.25	27.09	6.29	33.6	100	310	P	V
		2389.84	42.77	-11.23	54	32.94	27.13	6.36	33.59	100	310	A	V
	*	2452	100.26	-	-	90.26	27.27	6.38	33.58	100	310	P	V
	*	2452	92.61	-	-	82.61	27.27	6.38	33.58	100	310	A	V
		2484.32	55.87	-18.13	74	45.77	27.36	6.39	33.58	100	310	P	V
		2483.92	45.16	-8.84	54	35.07	27.36	6.38	33.58	100	310	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 10 2457MHz		2380.24	52.36	-21.64	74	42.65	27.09	6.29	33.6	114	135	P	H
		2380.08	41.95	-12.05	54	32.24	27.09	6.29	33.6	114	135	A	H
	*	2457	98.28	-	-	88.24	27.31	6.38	33.58	114	135	P	H
	*	2457	90.76	-	-	80.72	27.31	6.38	33.58	114	135	A	H
		2487.12	62.22	-11.78	74	52.12	27.36	6.39	33.58	114	135	P	H
		2483.52	47.02	-6.98	54	36.93	27.36	6.38	33.58	114	135	A	H
		2380.4	53.67	-20.33	74	43.89	27.09	6.36	33.6	101	310	P	V
		2388.24	42.53	-11.47	54	32.71	27.13	6.36	33.6	101	310	A	V
	*	2457	101.02	-	-	90.98	27.31	6.38	33.58	101	310	P	V
	*	2457	93.2	-	-	83.16	27.31	6.38	33.58	101	310	A	V
		2486.48	62.97	-11.03	74	52.87	27.36	6.39	33.58	101	310	P	V
		2483.52	48	-6	54	37.91	27.36	6.38	33.58	101	310	A	V
802.11n HT40 CH 11 2462MHz		2371.6	53.22	-20.78	74	43.51	27.09	6.29	33.6	109	137	P	H
		2389.2	41.93	-12.07	54	32.11	27.13	6.36	33.6	109	137	A	H
	*	2462	98	-	-	87.96	27.31	6.38	33.58	109	137	P	H
	*	2462	90.13	-	-	80.09	27.31	6.38	33.58	109	137	A	H
		2483.6	63.62	-10.38	74	53.53	27.36	6.38	33.58	109	137	P	H
		2483.52	50.85	-3.15	54	40.76	27.36	6.38	33.58	109	137	A	H
		2380.4	52.94	-21.06	74	43.16	27.09	6.36	33.6	104	311	P	V
		2384.08	42.54	-11.46	54	32.76	27.09	6.36	33.6	104	311	A	V
	*	2462	100.53	-	-	90.49	27.31	6.38	33.58	104	311	P	V
	*	2462	92.86	-	-	82.82	27.31	6.38	33.58	104	311	A	V
		2483.52	63.58	-10.42	74	53.49	27.36	6.38	33.58	104	311	P	V
		2483.52	51.06	-2.94	54	40.97	27.36	6.38	33.58	104	311	A	V



2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		4844	38.48	-35.52	74	61.87	31.32	9.58	64.72	100	0	P	H
HT40		7266	41.58	-32.42	74	58.36	36.21	11.32	64.81	100	0	P	H
CH 03		4844	39.03	-34.97	74	62.42	31.32	9.58	64.72	100	0	P	V
2422MHz		7266	41.66	-32.34	74	58.44	36.21	11.32	64.81	100	0	P	V
802.11n		4874	39.54	-34.46	74	62.87	31.38	9.56	64.7	100	0	P	H
HT40		7311	42.75	-31.25	74	59.52	36.28	11.31	64.82	100	0	P	H
CH 06		4874	39.66	-34.34	74	62.99	31.38	9.56	64.7	100	0	P	V
2437MHz		7311	42.58	-31.42	74	59.35	36.28	11.31	64.82	100	0	P	V
802.11n		4904	39.41	-34.59	74	62.65	31.44	9.56	64.67	100	0	P	H
HT40		7356	41.71	-32.29	74	58.44	36.4	11.3	64.84	100	0	P	H
CH 09		4904	40.4	-33.6	74	63.64	31.44	9.56	64.67	100	0	P	V
2452MHz		7356	42.52	-31.48	74	59.25	36.4	11.3	64.84	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		4914	38.87	-35.13	74	62.11	31.44	9.55	64.67	100	0	P	H
HT40		7371	42.46	-31.54	74	59.18	36.43	11.3	64.85	100	0	P	H
CH 10		4914	41.15	-32.85	74	64.39	31.44	9.55	64.67	100	0	P	V
2457MHz		7371	41.54	-32.46	74	58.26	36.43	11.3	64.85	100	0	P	V
802.11n		4924	38.99	-35.01	74	62.18	31.48	9.55	64.66	100	0	P	H
HT40		7386	40.93	-33.07	74	57.64	36.47	11.3	64.86	100	0	P	H
CH 11		4924	40.13	-33.87	74	63.32	31.48	9.55	64.66	100	0	P	V
2462MHz		7386	42.35	-31.65	74	59.06	36.47	11.3	64.86	100	0	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

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

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
2.4GHz 802.11g LF		48.36	22.33	-17.67	40	38.89	14.9	1.02	32.49	-	-	P	H
		141.51	28.87	-14.63	43.5	42.62	17.12	1.51	32.44	-	-	P	H
		149.07	28.83	-14.67	43.5	42.71	16.87	1.61	32.44	-	-	P	H
		765.5	30.78	-15.22	46	31.55	27.93	3.44	32.28	-	-	P	H
		929.3	32.65	-13.35	46	30.39	29.66	3.82	31.39	-	-	P	H
		958	32.85	-13.15	46	28.88	31.02	3.9	31.13	100	0	P	H
		40.8	30.31	-9.69	40	43.29	18.68	0.82	32.49	-	-	P	V
		47.55	33.35	-6.65	40	49.51	15.31	1.02	32.49	100	0	P	V
		141.51	23.25	-20.25	43.5	37	17.12	1.51	32.44	-	-	P	V
		855.1	31.24	-14.76	46	30.39	28.92	3.67	31.89	-	-	P	V
		901.3	31.61	-14.39	46	30.32	28.99	3.79	31.65	-	-	P	V
		953.8	33.28	-12.72	46	29.61	30.76	3.9	31.16	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

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



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

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

1. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

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

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

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

= -10.46(dB)

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



Appendix D. Radiated Spurious Emission Plots

Test Engineer :	Hao Hsu, Jacky Hung, and Ken Wu	Temperature :	21~26°C
		Relative Humidity :	51~56%

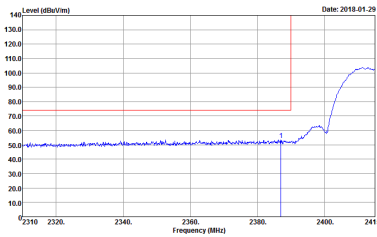
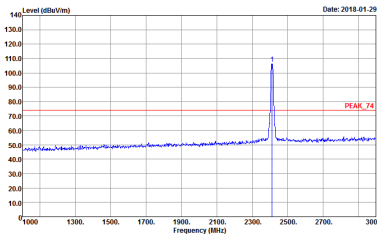
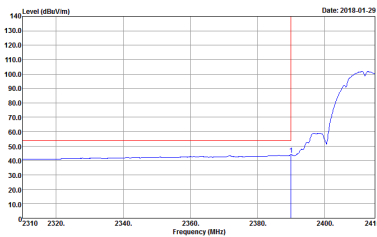
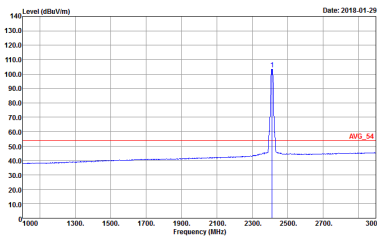
Note symbol

-L	Low channel location
-R	High channel location

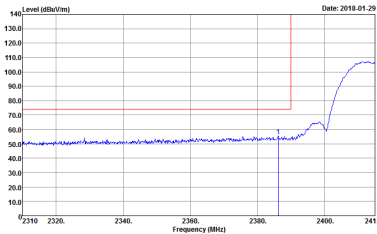
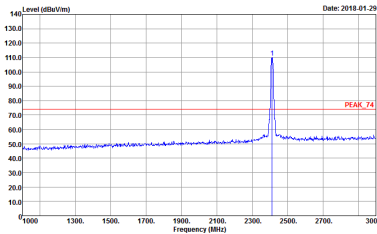
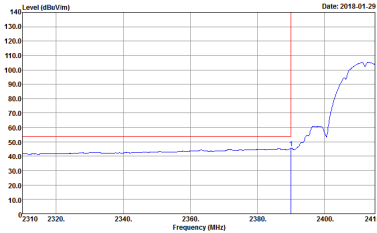
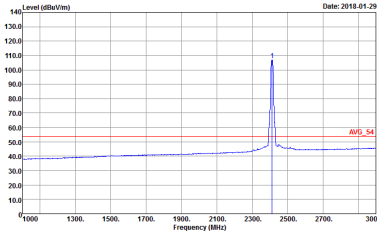


2.4GHz 2400~2483.5MHz

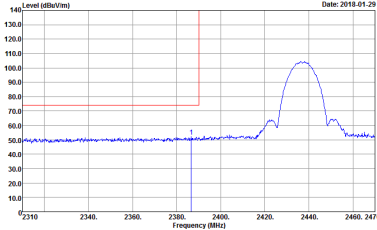
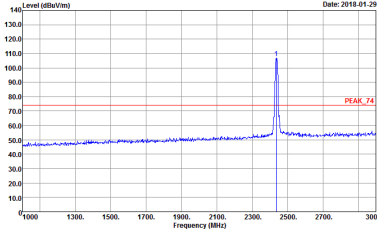
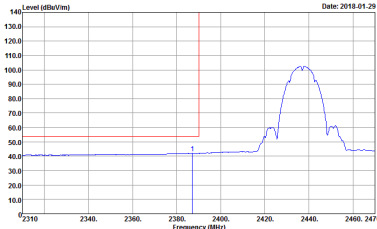
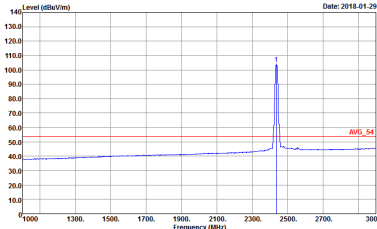
WIFI 802.11b (Band Edge @ 3m)

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 : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005

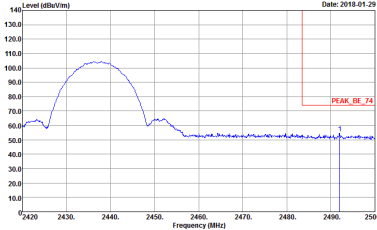
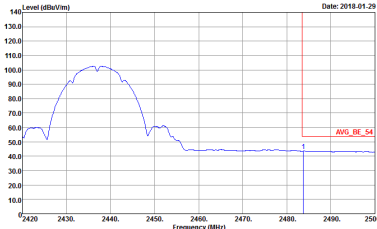


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005

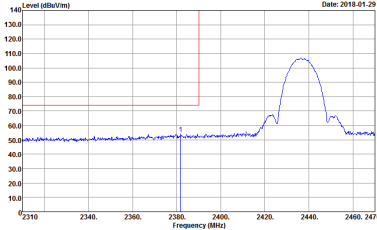
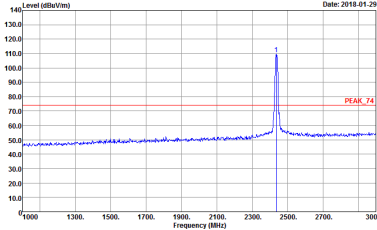
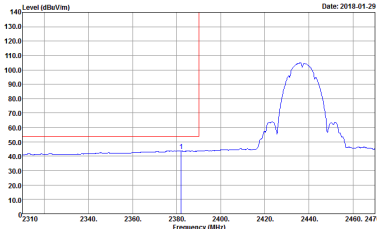
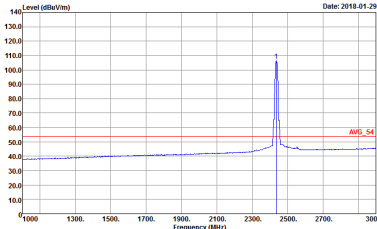


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005

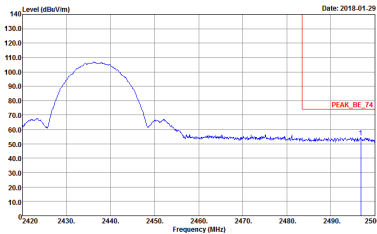
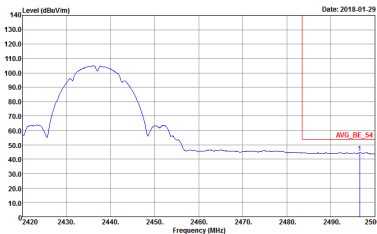


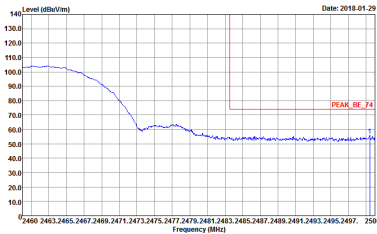
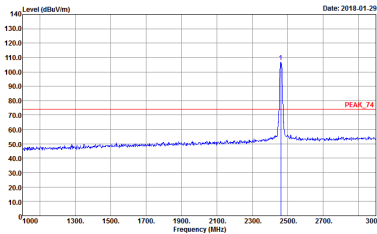
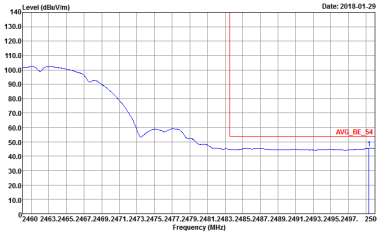
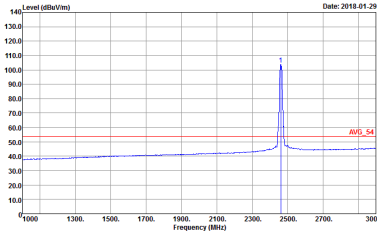
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	Left blank



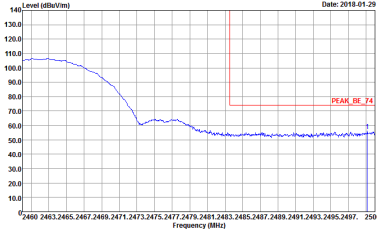
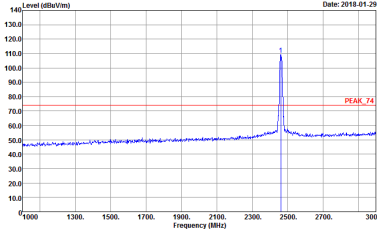
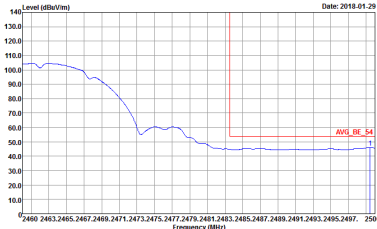
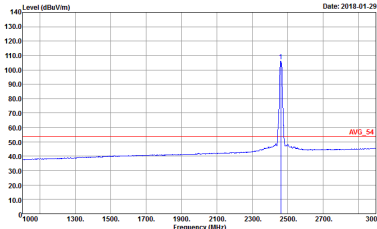
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005



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 : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005	Left blank

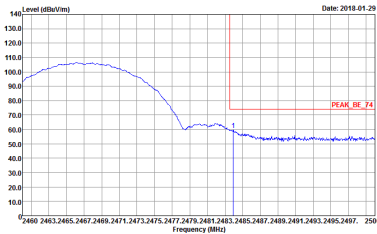
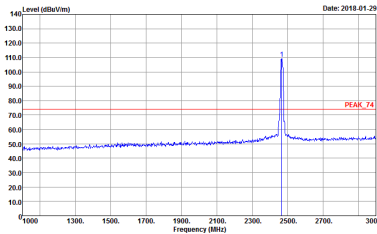
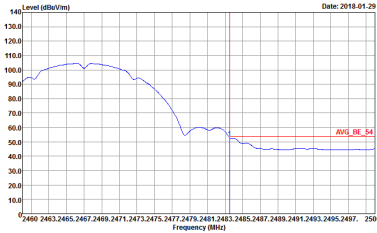
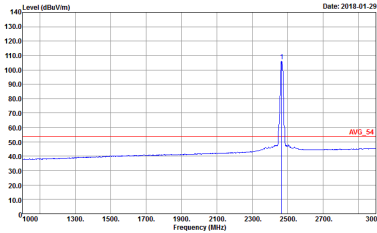
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005



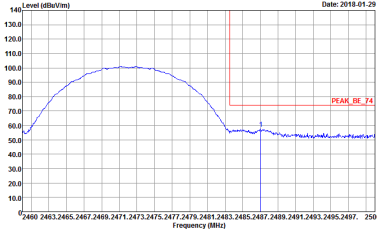
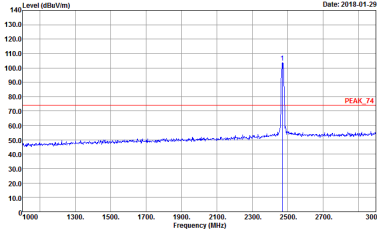
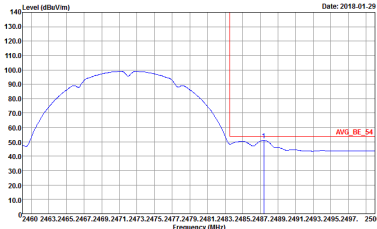
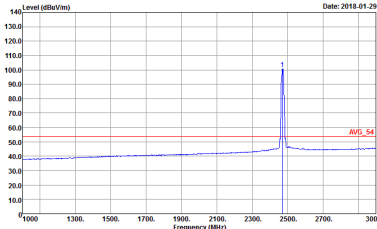
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005



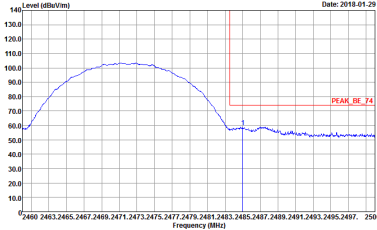
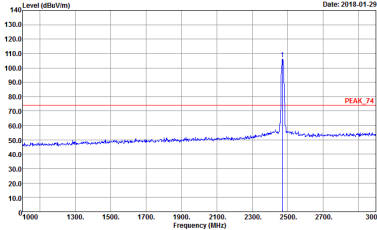
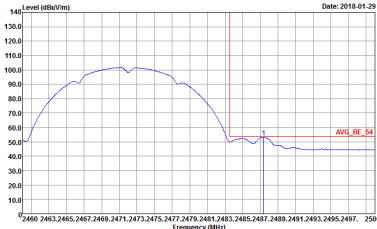
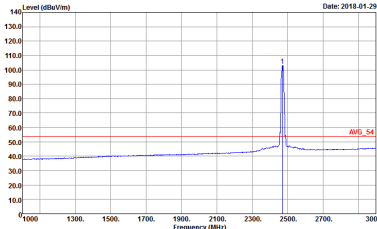
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005
	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005
Avg.		

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005
Avg.		



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 1F	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 1F
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 1F	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 1F



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11b CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005 Setting : 1F	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005 Setting : 1F
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005 Setting : 1F	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005 Setting : 1F

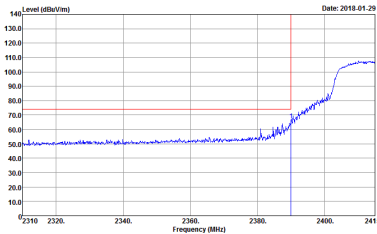
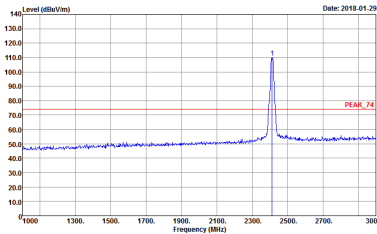
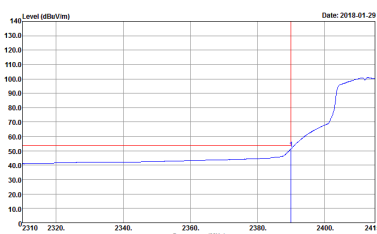
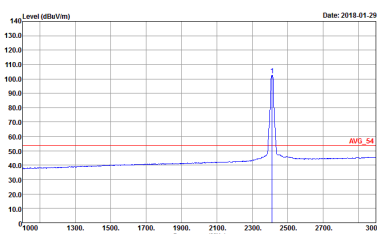


2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005

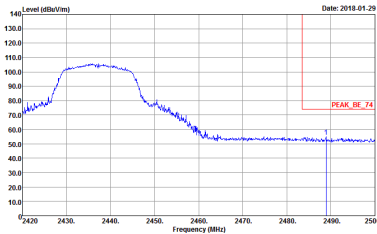
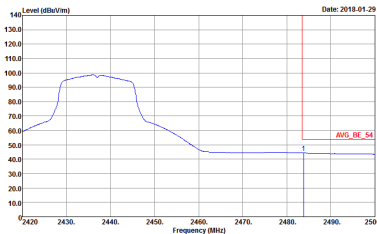


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH01 2412MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005

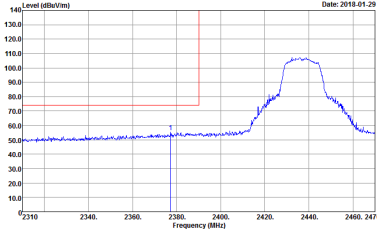
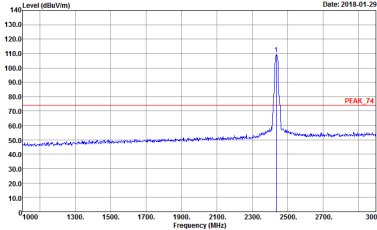
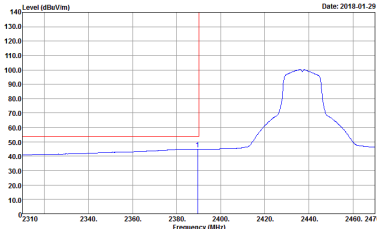
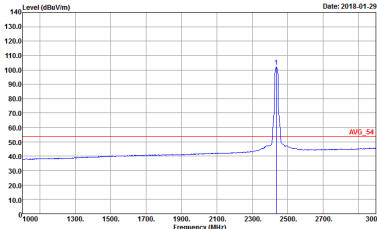


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005

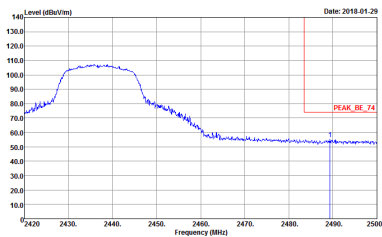
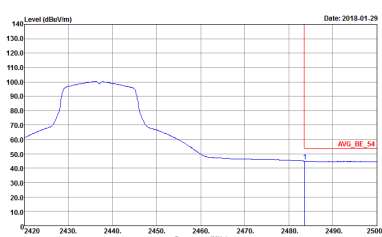


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	Left blank

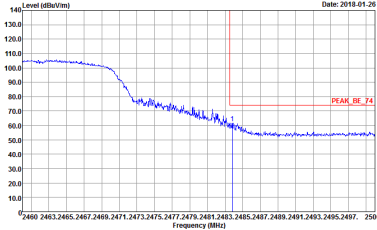
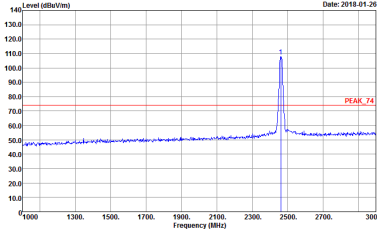
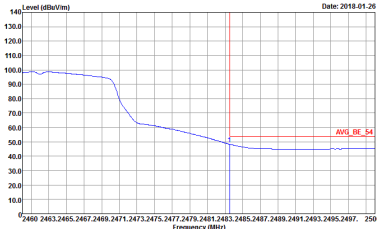
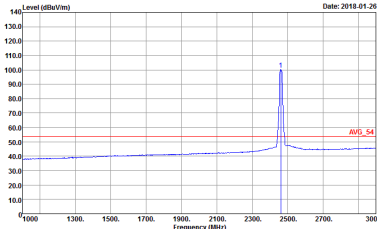


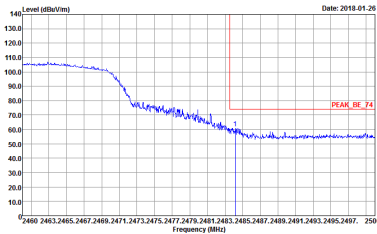
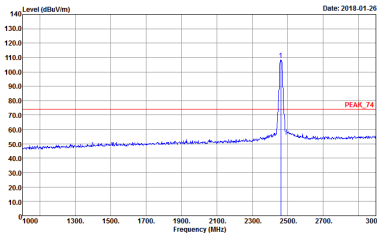
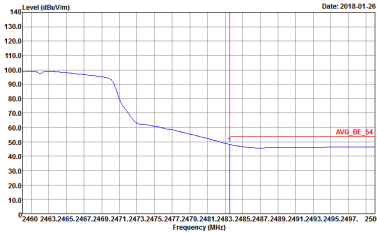
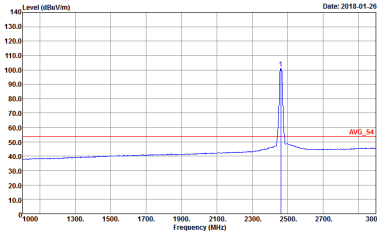
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005



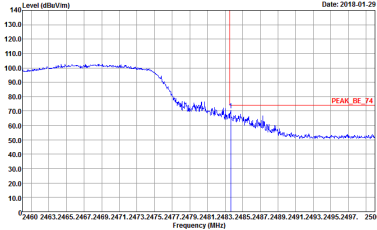
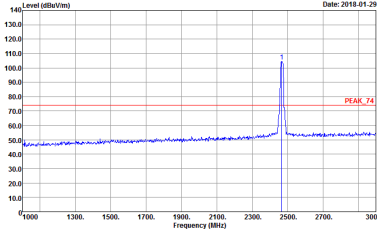
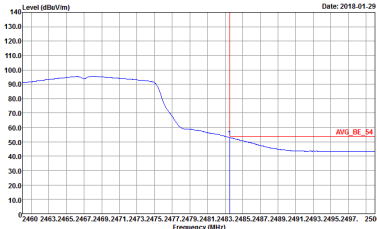
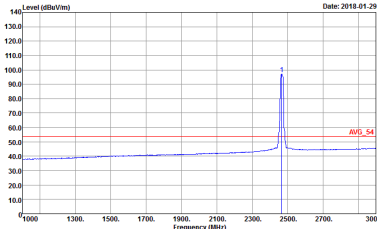
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005	Left Blank



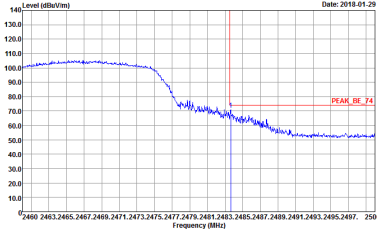
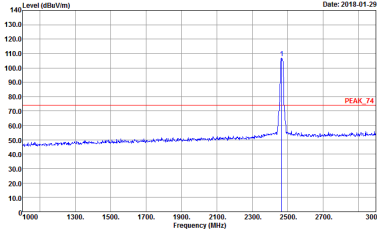
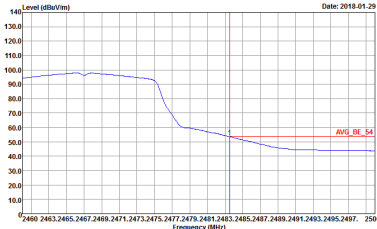
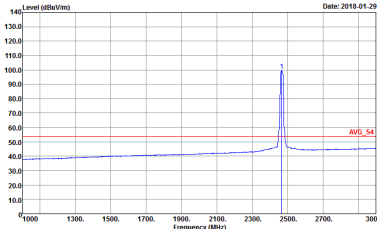
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH11 2462MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 20	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 20
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 20	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 20

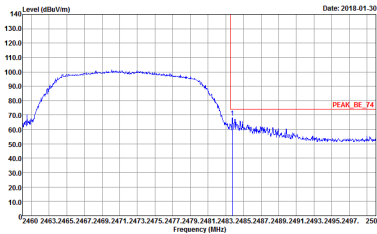
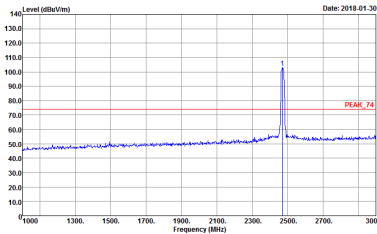
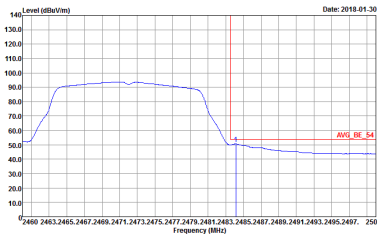
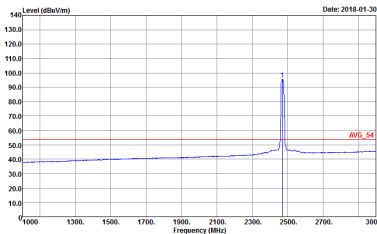


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH12 2467MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005 Setting : 20	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005 Setting : 20
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005 Setting : 20	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005 Setting : 20



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
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 : 812005 Setting : 1B	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005 Setting : 1B
	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005 Setting : 1B	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005 Setting : 1B

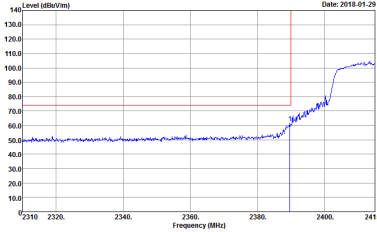
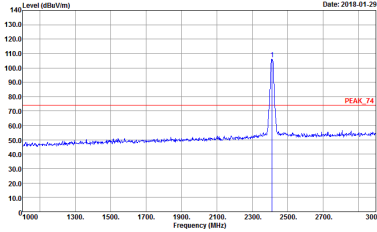
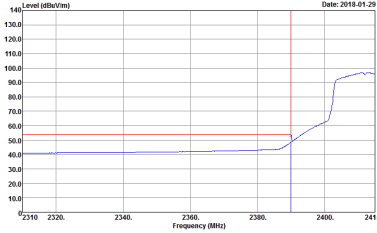
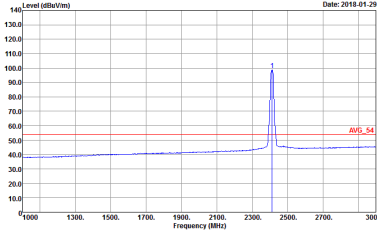


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11g CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005 Setting : 1B	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005 Setting : 1B
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005 Setting : 1B	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005 Setting : 1B

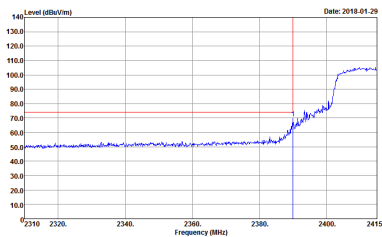
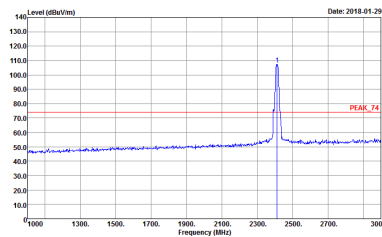
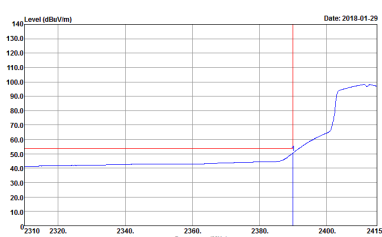
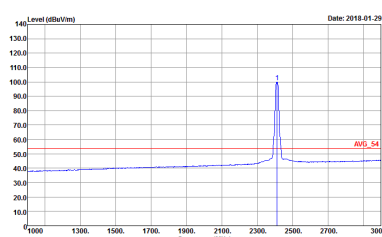


2.4GHz 2400~2483.5MHz

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 : 03CHI1-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CHI1-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005
Avg.	 Site : 03CHI1-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CHI1-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005



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 : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005



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 : Peak Project : 812005	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005
	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005

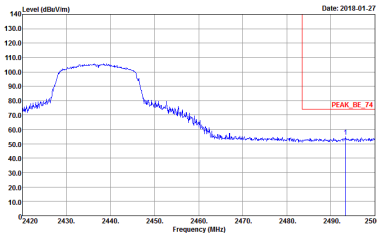
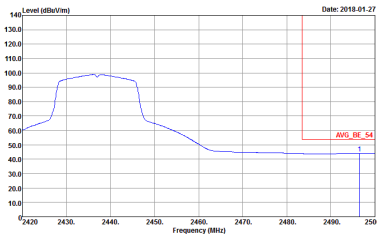


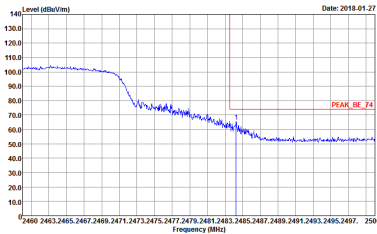
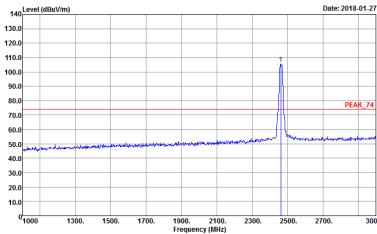
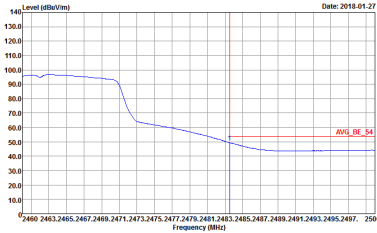
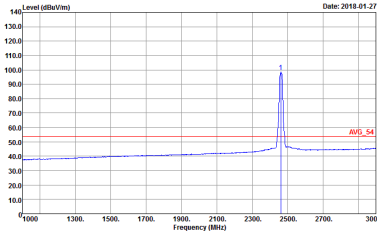
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank

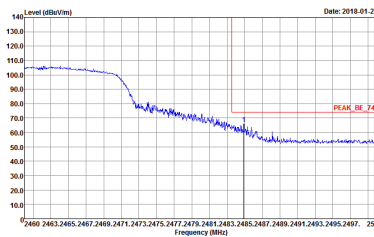
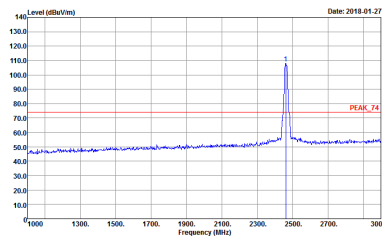
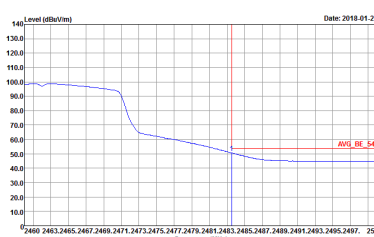
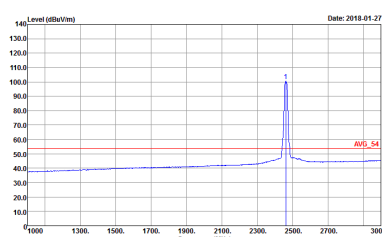


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005
	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005

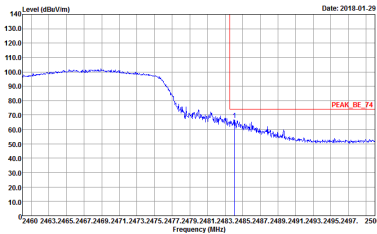
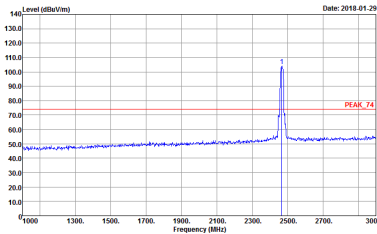
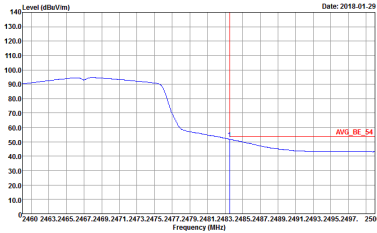
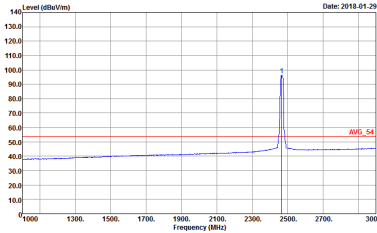


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005	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 : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005

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 : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005
Avg.		

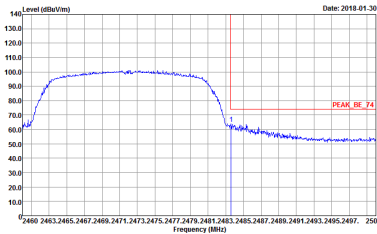
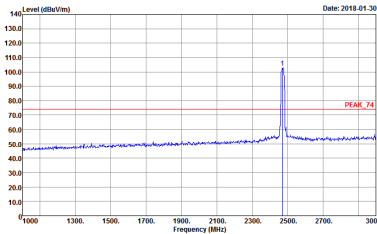
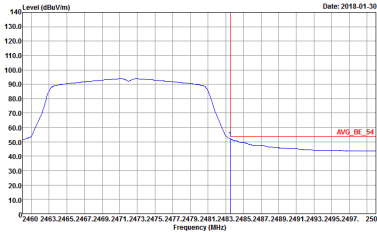
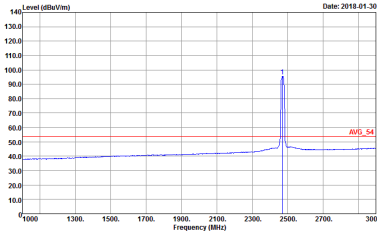


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : Z1	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : Z1
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : Z1	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : Z1
Avg.		

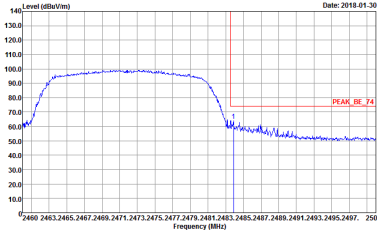
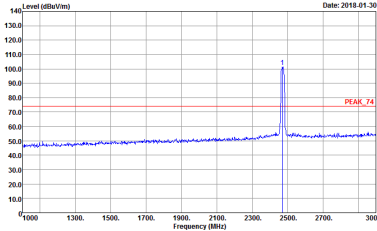
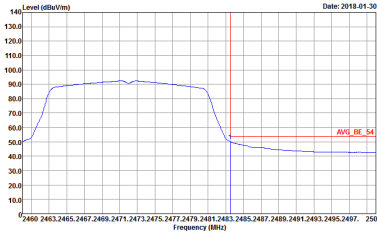
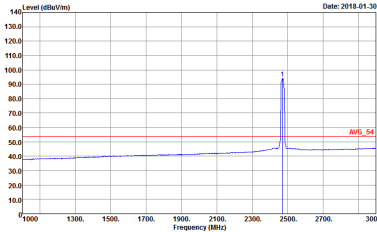


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH12 2467MHz	
1	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005 Setting : Z1	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005 Setting : Z1
	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005 Setting : Z1	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005 Setting : Z1



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 1C	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 1C
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 1C	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 1C



WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005 Setting : 1C	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005 Setting : 1C
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005 Setting : 1C	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005 Setting : 1C

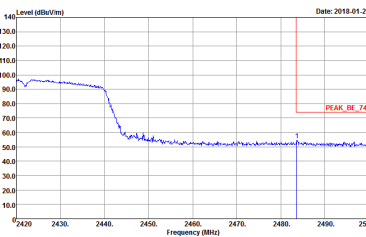
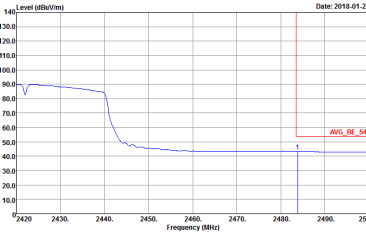


2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Horizontal	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005
Avg.	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL RBW:1000.000KHz VBW:0.010KHz SWT:Auto Detector : Peak Project : 812005

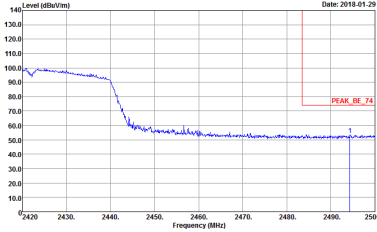
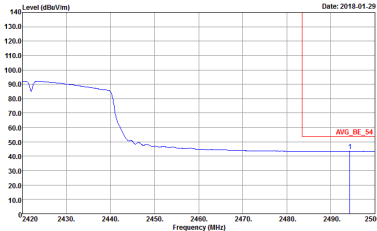


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	Left Blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	Left Blank

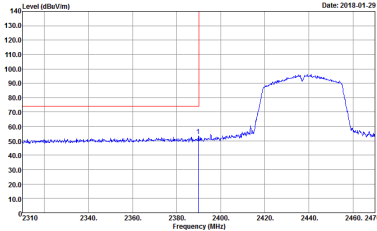
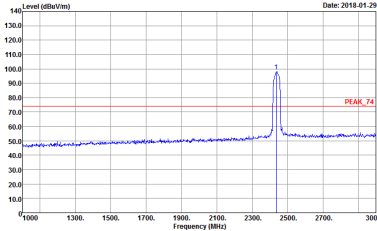
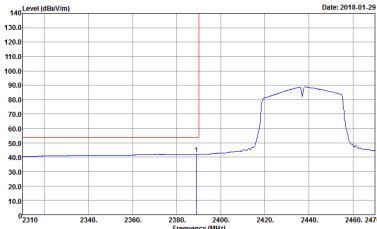
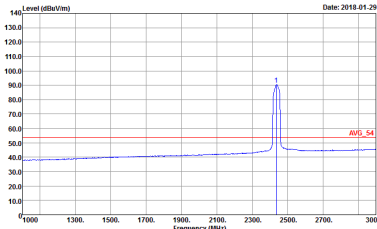


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - L	
1	Vertical	Fundamental
Peak	Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005
	Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005

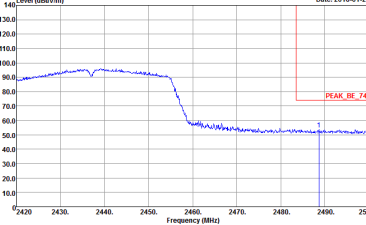
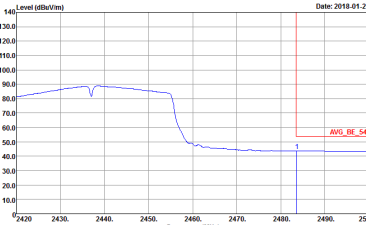


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH03 2422MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank

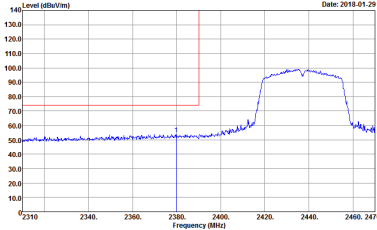
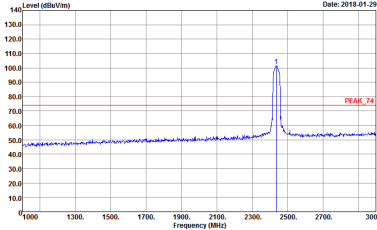
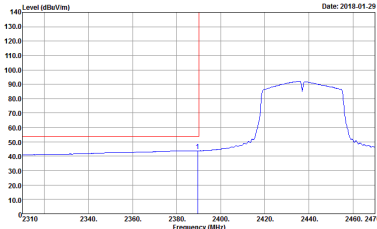
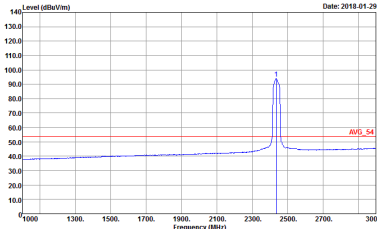


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Project : 812005

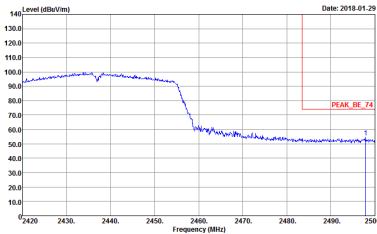
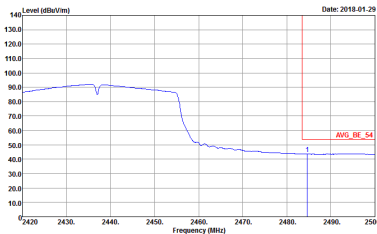


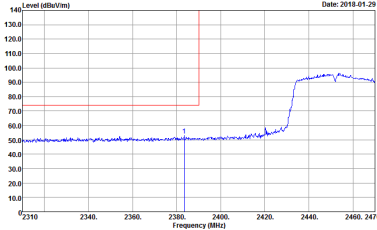
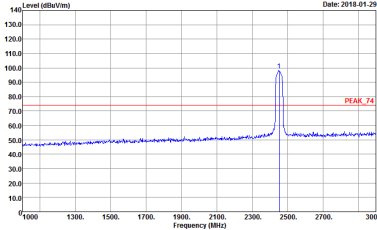
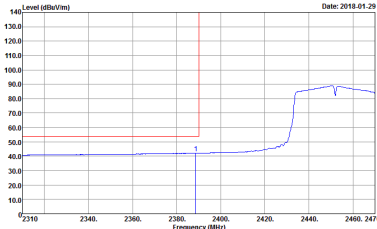
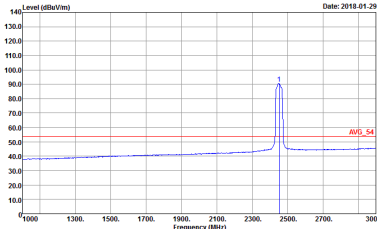
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	Left blank

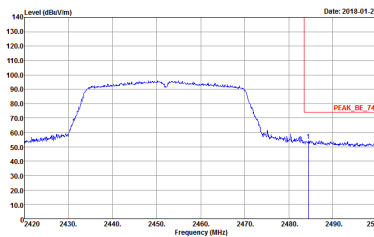
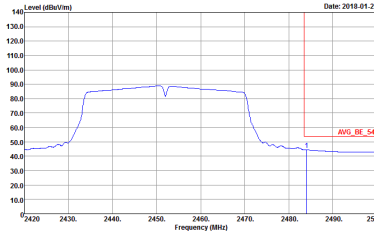


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005

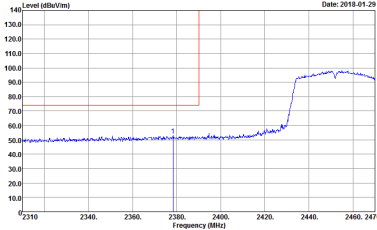
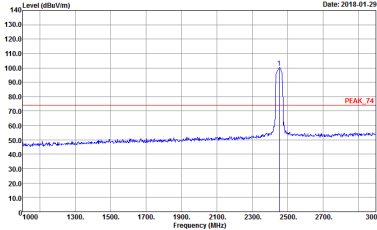
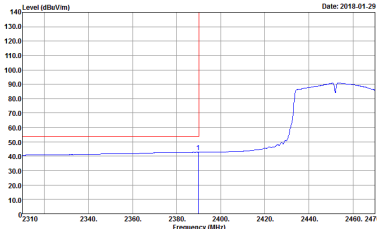
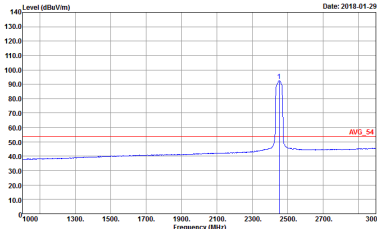


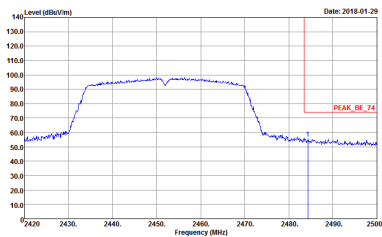
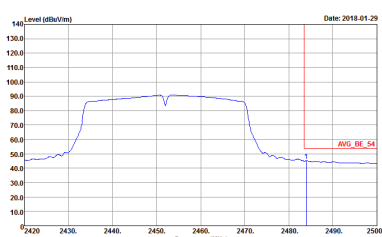
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH06 2437MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005	Left blank

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005
	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005

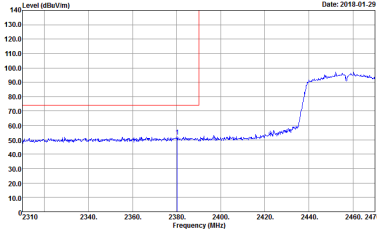
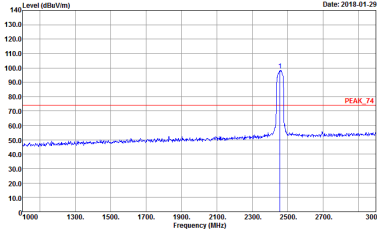
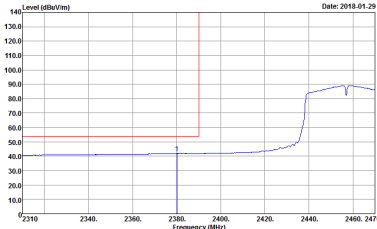
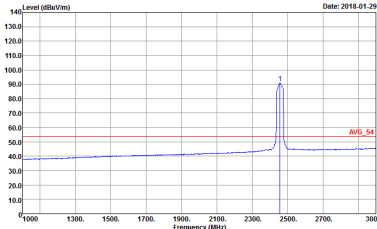
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank



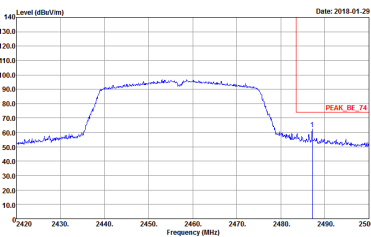
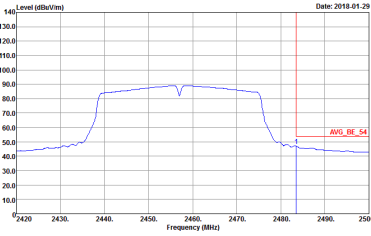
WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005

WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH09 2452MHz - 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 : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank

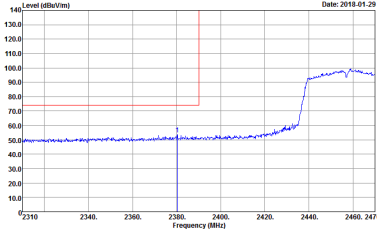
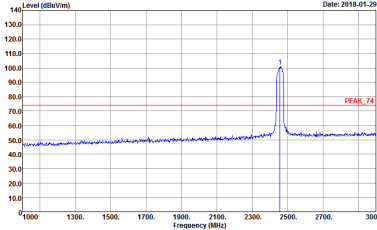
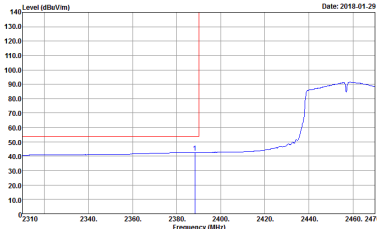
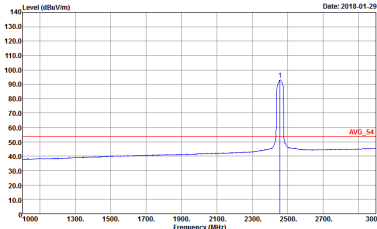


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH10 2457MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005

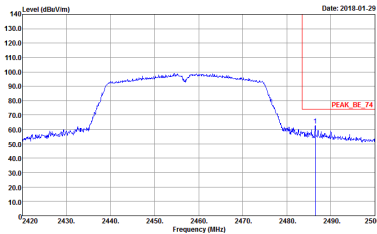
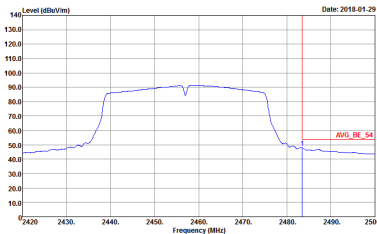


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH10 2457MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank

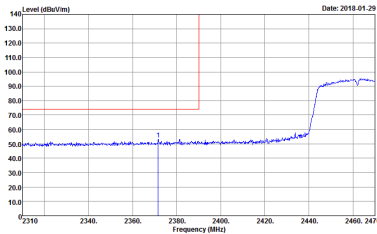
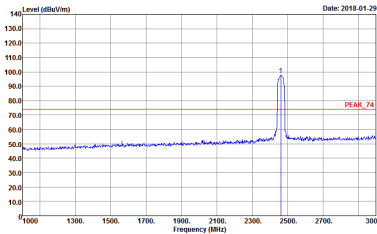
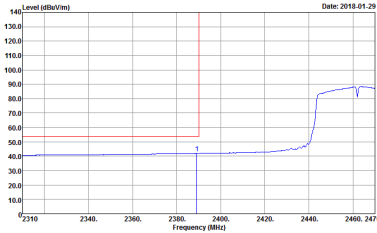
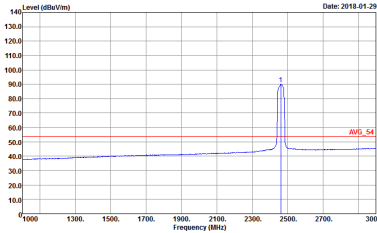


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH10 2457MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005

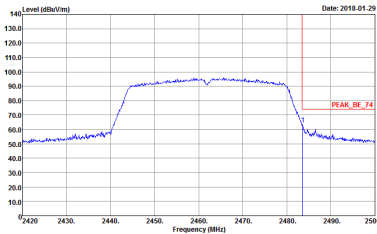
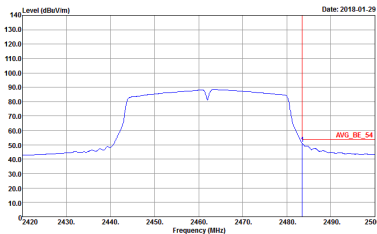


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH10 2457MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank

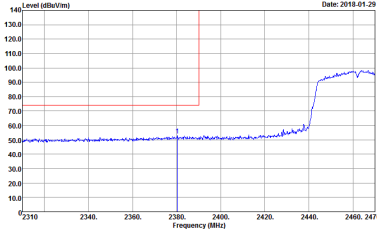
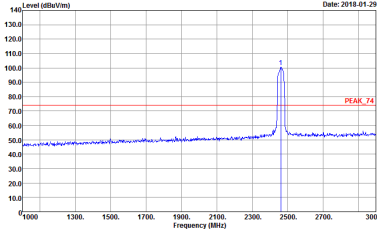
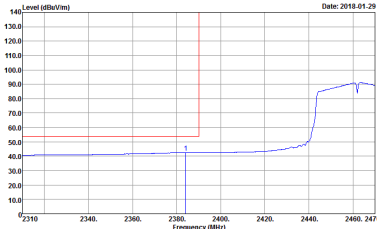
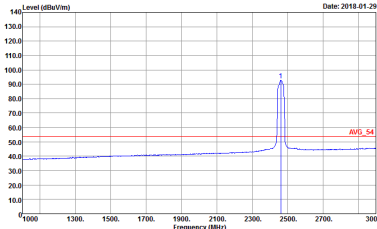


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH11 2462MHz - L	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005

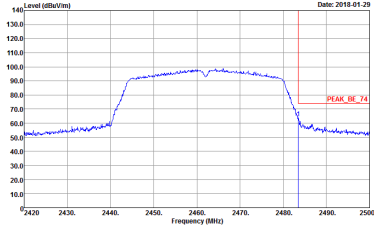
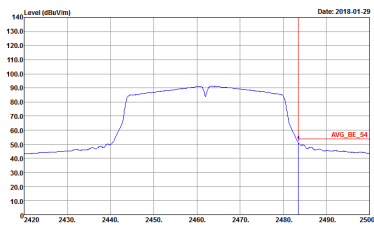


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH11 2462MHz - R	
1	Horizontal	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 91200-HF HORIZONTAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank

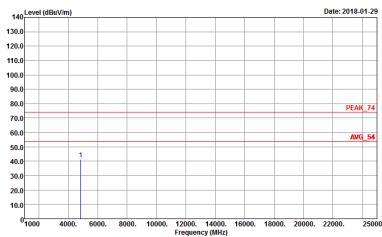
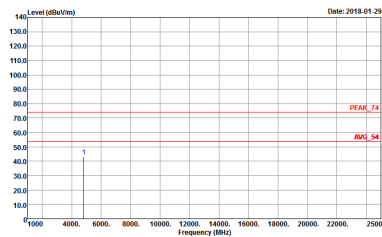


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH11 2462MHz - L	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : AVG_54 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005

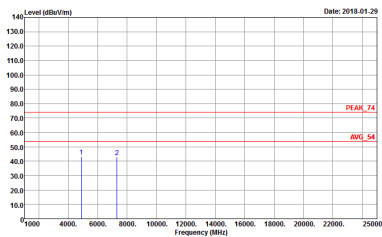
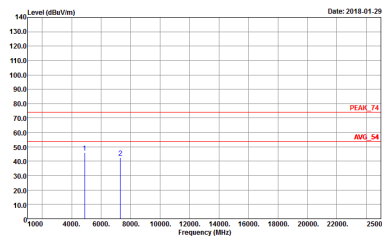


WIFI	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	802.11n HT40 CH11 2462MHz - R	
1	Vertical	Fundamental
Peak	 Site : 03CH11-HY Condition : PEAK_BE_74 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank
Avg.	 Site : 03CH11-HY Condition : AVG_BE_54 3m HORN 9120D-HF VERTICAL RBW:1000.000KHz VBW:3000.000KHz SWT:Auto Detector : Peak Project : 812005	Left blank

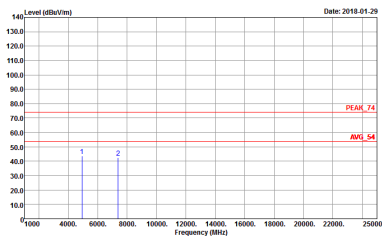
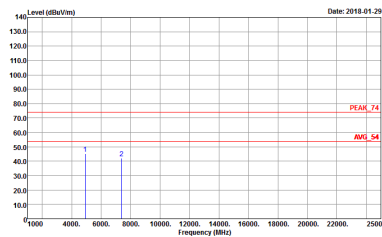
2.4GHz 2400~2483.5MHz
WIFI 802.11b (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Project : 812005

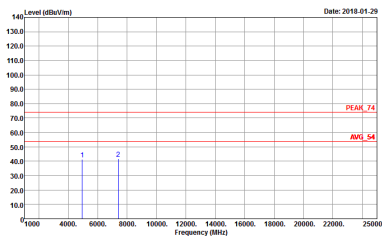
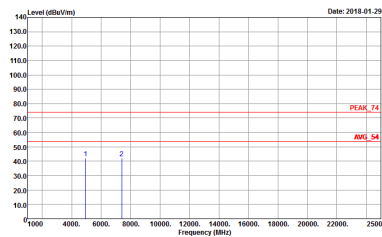


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-11Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Project : 812005	 Site : 03CH11-11Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Project : 812005

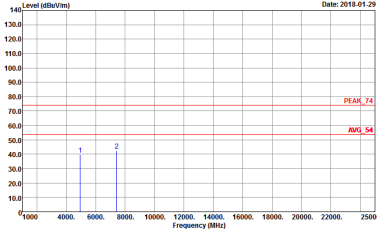
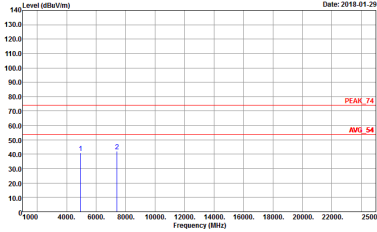


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-19Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Project : 812005	 Site : 03CH11-19Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Project : 812005



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH12 2467MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-11Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Project : 812005	 Site : 03CH11-11Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Project : 812005

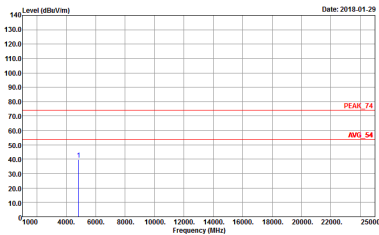
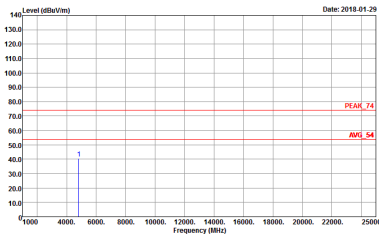


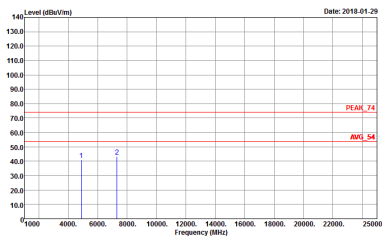
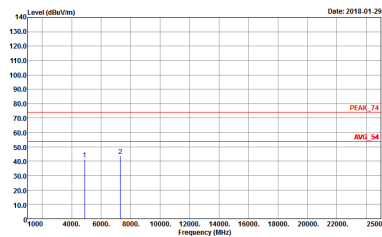
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11b CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-11Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Project : 812005 Setting : 1F	 Site : 03CH11-11Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Project : 812005 Setting : 1F



2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

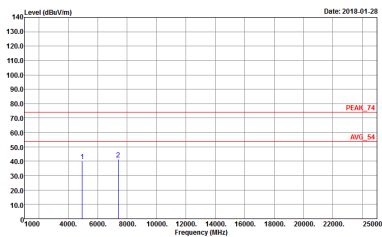
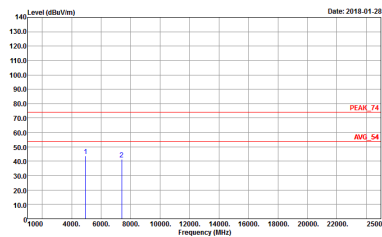
WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH01 2412MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Project : 812005

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-19Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Project : 812005	 Site : 03CH11-19Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Project : 812005

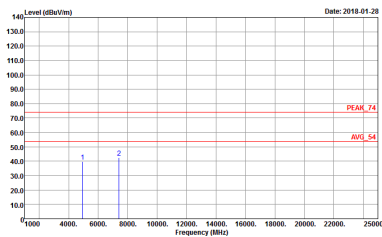
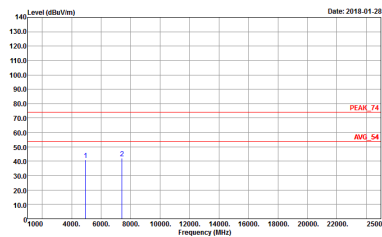


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Site : 03CH11-11Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Project : 812005	Site : 03CH11-11Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Project : 812005

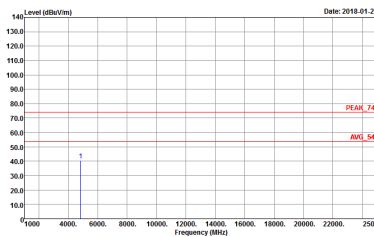
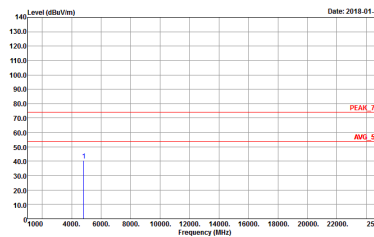


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH12 2467MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 20	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005 Setting : 20

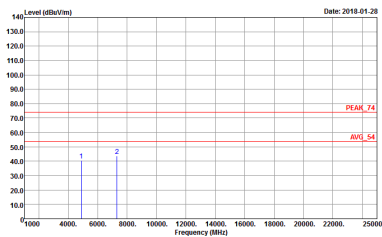
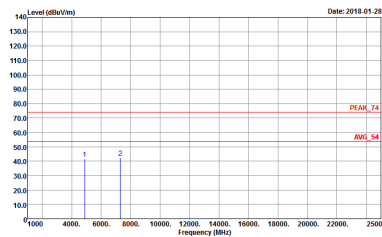


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11g CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF HORIZONTAL Detector : Peak Project : 812005 Setting : 18	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Detector : Peak Project : 812005 Setting : 18

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 Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 9120D-HF VERTICAL Project : 812005

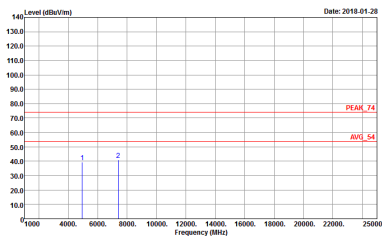
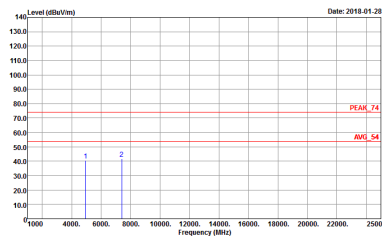


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005

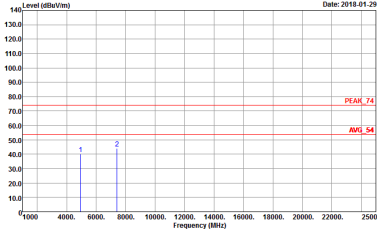
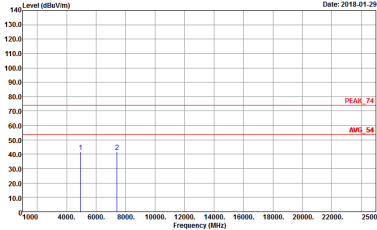


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	Level (dBu/Vm) Date: 2018-01-28 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	Level (dBu/Vm) Date: 2018-01-28 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH12 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005

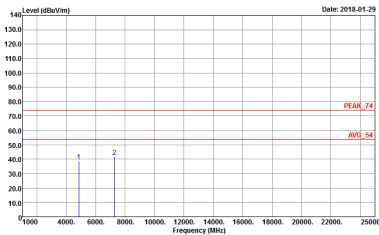
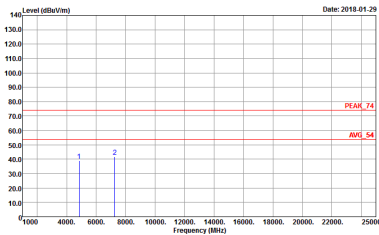


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT20 CH13 2472MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-11Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Project : 812005 Setting : 1C	 Site : 03CH11-11Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Project : 812005 Setting : 1C

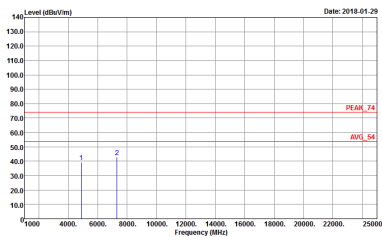
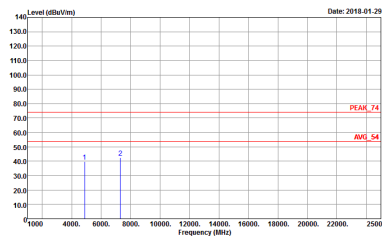


2.4GHz 2400~2483.5MHz

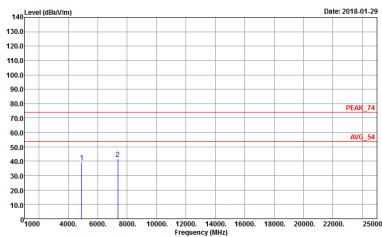
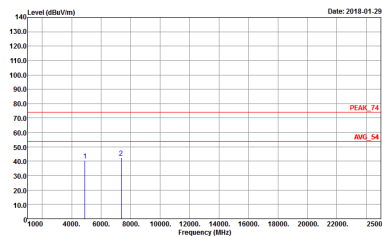
WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH03 2422MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-HY Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005

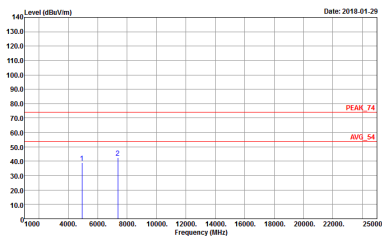
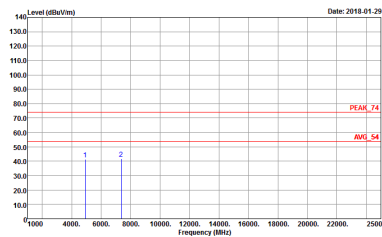


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH06 2437MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005

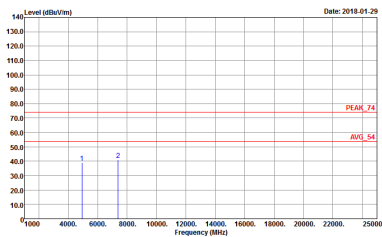
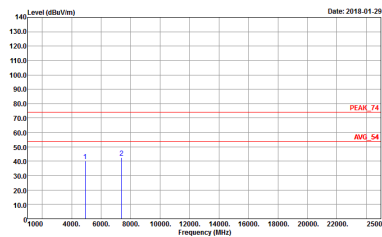


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH09 2452MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005

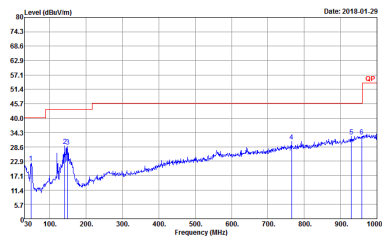
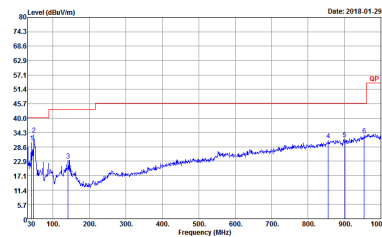


WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH10 2457MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005



WIFI	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	802.11n HT40 CH11 2462MHz	
1	Horizontal	Vertical
Peak Avg.	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF HORIZONTAL Detector : Peak Project : 812005	 Site : 03CH11-14Y Condition : PEAK_74 3m HORN 91200-HF VERTICAL Detector : Peak Project : 812005

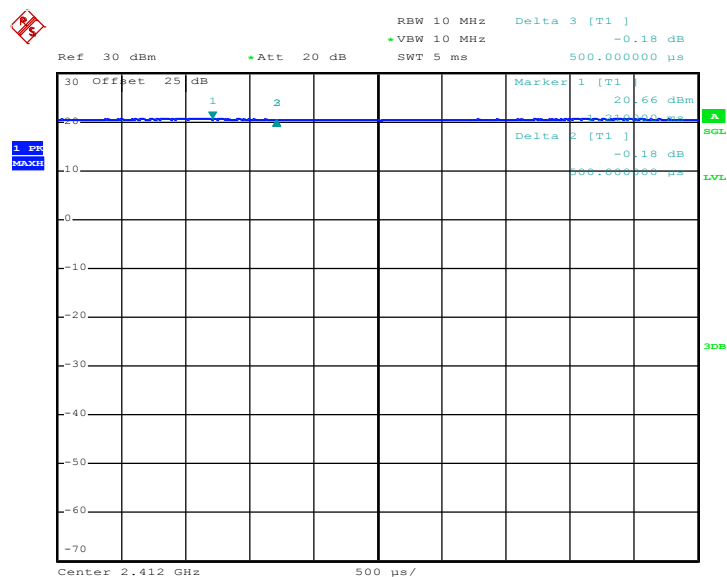
Emission below 1GHz
2.4GHz WIFI 802.11g (LF)

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 Project : 812005	 Site : 03CH11-HY Condition : QP 3m BE LOG 6111D-LF_ETC VERTICAL Project : 812005

Appendix E. Duty Cycle Plots

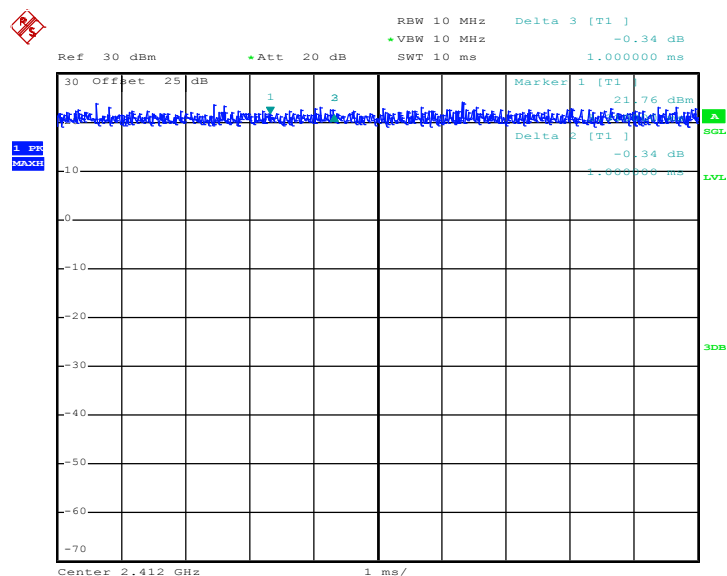
Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting	Duty Factor(dB)
802.11b	100	-	-	10Hz	0.00
802.11g	100	-	-	10Hz	0.00
2.4GHz 802.11n HT20	100	-	-	10Hz	0.00
2.4GHz 802.11n HT40	100	-	-	10Hz	0.00

802.11b



Date: 25.JAN.2018 19:37:06

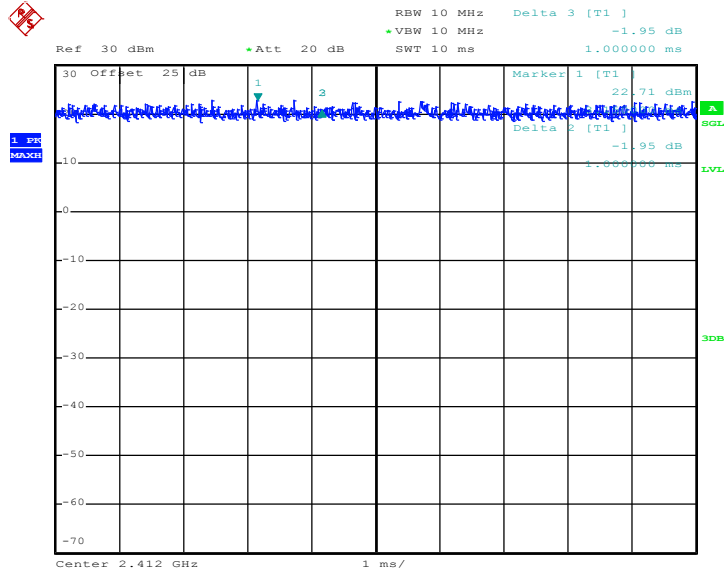
802.11g



Date: 25.JAN.2018 20:14:56

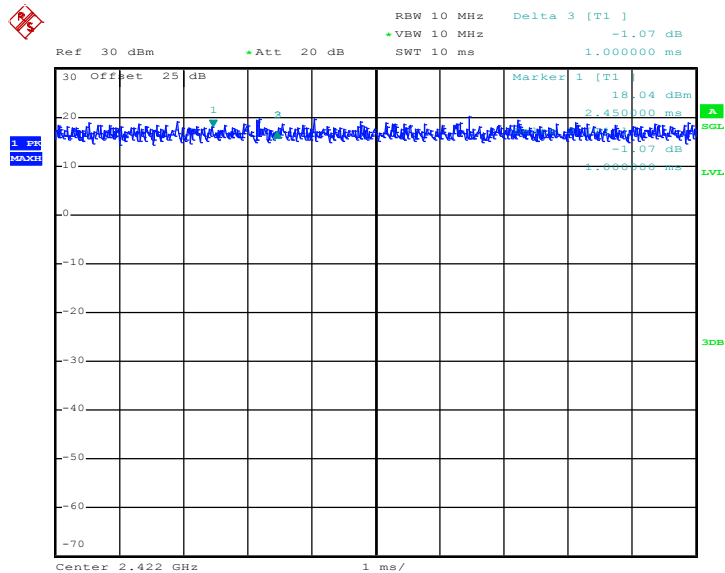


802.11n HT20



Date: 25.JAN.2018 21:16:59

802.11n HT40



Date: 25.JAN.2018 21:39:15