

APPLICATION FOR CERTIFICATION

On Behalf of

SONY CORPORATION

Personal Content Station

Model No. : LLS-201

FCC ID : AK8LLS201

IC: 409B-LLS201

Brand : SONY

Prepared for : SONY CORPORATION  
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Japan

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Date of Test : Nov. 12 ~ Dec. 04, 2012  
Date of Report : Jan. 18, 2013

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## TEST REPORT CERTIFICATION

Applicant : SONY CORPORATION  
Manufacturer : SONY CORPORATION  
EUT Description : Personal Content Station  
FCC ID : **AK8LLS201**  
IC : **409B-LLS201**  
(A) Model No. : LLS-201  
(B) Serial No. : N/A  
(C) Brand : SONY  
(D) Power Supply : DC 12V (Powered by AC Adapter)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C, Oct. 2011  
Industry Canada Rules and Regulations RSS-Gen (Issue 3), December 2010 and  
RSS-210 (Issue 8), December 2010  
(Canada RSS-210 §Annex 8)  
And ANSI C63.4:2003

(FCC 47 CFR Part 15C, §15.205 and §15.207 and §15.209 and §15.247)

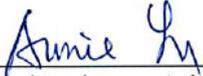
The device described above was tested by AUDIX Technology Corporation to determine the maximum emission levels emanating from the device. The maximum emission levels were compared to the FCC Part 15 subpart C and Canada RSS-Gen, RSS-210 limits.

The measurement results are contained in this test report and AUDIX Technology Corporation is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the requirements of FCC and Industry Canada RSS-Gen, RSS-210 standards.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX Technology Corporation.

Date of Test: Nov. 12 ~ Dec. 04, 2012

Date of Report: Jan. 18, 2013

Producer:   
(Annie Yu/Assistant Administrator)

Signatory:   
(Leon Liu/Deputy General Manager)

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Description	:	Personal Content Station The frequency range of 2400MHz ~ 2483.5MHz was tested in this report. The frequency range 5150 ~ 5250MHz has been tested and the test data are reported in other report of EM-F1010956.
Model Number	:	LLS-201
Serial Number	:	N/A
Brand	:	SONY
FCC ID	:	AK8LLS201
IC	:	409B-LLS201
Applicant	:	SONY CORPORATION 1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan
Manufacturer	:	SONY CORPORATION 1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan
AC Adapter	:	SONY, M/N AC-NB12A Input: 100V-240V~, 0.65A-0.35A, 50/60Hz Output: 12V, 2.5A Cord: Non-Shielded, Undetachable, 1.5m
Power Cord	:	Non-Shielded, Detachable, 1.8m
Fundamental Range	:	2412MHz ~ 2462MHz and 5180MHz ~ 5240MHz
Radio Technology	:	802.11b: DSSS Modulation (DBPSK/DQPSK/CCK) 802.11a/g/n-HT20/n-HT40: OFDM Modulation (BPSK/QPSK/16QAM/64QAM)

Data Transfer Rate : 802.11b: 1/2/5.5/11Mbps  
802.11a/g: 6/9/12/18/24/48/54Mbps  
802.11n: up to 300Mbps

Antenna Gain : 2.4HGz: 0.8dBi  
5HGz: 3.3dBi

Antenna Transmit Type : 1T1R

Antenna Type : Inverted Antenna

Date of Receipt of Sample : Nov. 12, 2012

Date of Test : Nov. 12 ~ Dec. 04, 2012

## 1.2. Data Rate Relative to Output Power

802.11b			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
1	DBPSK	1	15.27
1	DQPSK	2	15.28
1	CCK	5.5	15.39
1	CCK	11	15.25

802.11g			
Channel	Modulation	Date Rate(Mbps)	Power(dBm)
6	BPSK	6	21.82
6	BPSK	9	21.70
6	QPSK	12	21.74
6	QPSK	18	21.63
6	16-QAM	24	21.71
6	16-QAM	36	21.70
6	64-QAM	48	21.75
6	64-QAM	54	21.77

802.11n-HT20				802.11n-HT40			
Channel	Modulation	Date Rate (Mbps)	Power (dBm)	Channel	Modulation	Date Rate (Mbps)	Power (dBm)
11	BPSK	6.5	19.22	9	BPSK	13.5	17.37
11	QPSK	13	18.91	9	QPSK	27	17.12
11	QPSK	19.5	18.85	9	QPSK	40.5	17.08
11	16-QAM	26	19.01	9	16-QAM	54	16.95
11	16-QAM	39	19.08	9	16-QAM	81	17.15
11	64-QAM	52	18.89	9	64-QAM	108	17.17
11	64-QAM	58.6	18.95	9	64-QAM	121.5	17.19
11	64-QAM	65	18.95	9	64-QAM	135	17.17

### 1.3. Test Configuration for Each Test Item

Test Item	802.11b	802.11g	802.11n-HT20	802.11n-HT40
	Data Rate for Test(Mbps)			
6dB Bandwidth	1	6	6.5	13.5
Peak Power Spectral Density	1	6	6.5	13.5
Peak Output Power	1	6	6.5	13.5
Band Edge	1	6	6.5	13.5

### 1.4. Tested Supporting System Details

#### 1.4.1. NOTEBOOK PC (LINK TO ROUTER)

Model Number : PP19S  
 Serial Number : 8285  
 FCC ID : MCLBCM92046  
 BSMI ID : R33002  
 Brand : DELL  
 AC Adapter : M/N:AD6513  
 DC Cord: Non-Shielded, Undetachable, 2.4m  
 LAN Cable : Shielded, Detachable, 1.5m  
 Power Cord : Non-Shielded, Detachable, 1.8m

#### 1.4.2. ROUTER (LINK TO EUT)

Model Number : DIR-635  
 Serial Number : N/A  
 FCC ID : KA2DIR635B3  
 Brand : D-Link  
 LAN Cable : Shielded, Detachable, 1.0m  
 AC Adapter : D-Link , M/N:CF1505-B  
 Power Cord : Non-Shielded, Undetachable, 1.8m

1.4.3. USB JIG (LINK TO EUT)

Model Number : UE-200Tx-G2  
Serial Number : N/A  
USB→LAN Cable : Non-Shielded, Detachable, 0.3m

1.5. Description of Test Facility

Name of Firm : **AUDIX Technology Corporation**  
EMC Department  
No. 53-11, Dingfu, Linkou Dist.,  
New Taipei City 244, Taiwan, R.O.C.

Test Site : **No. 3 Shielded Room &**  
(C3/Semi-AC) No. 67-4, Dingfu, Linkou Dist.,  
New Taipei City 244, Taiwan, R.O.C.  
**Semi-Anechoic Chamber**  
No. 53-11, Dingfu, Linkou Dist.,  
New Taipei City 244, Taiwan, R.O.C.  
May 14, 2009 Renewal on  
Federal Communication Commission  
Registration Number: 90993

NVLAP Lab. Code : 200077-0

TAF Accreditation No : 1724

### 1.6. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty (dB)
Conduction Test	150kHz~30MHz	±1.73dB
Radiation Test (Distance: 3m)	30MHz~300MHz	± 2.91dB
	300MHz~1000MHz	± 2.74dB
	Above 1GHz	± 5.02dB

Remark : Uncertainty =  $ku_c(y)$

Test Item	Uncertainty
6dB Bandwidth	± 0.05kHz
Maximum peak output power	± 0.33dBm
Band edges	± 0.13dB
Power spectral density	± 0.13dB
Emission Limitations	± 0.13dB

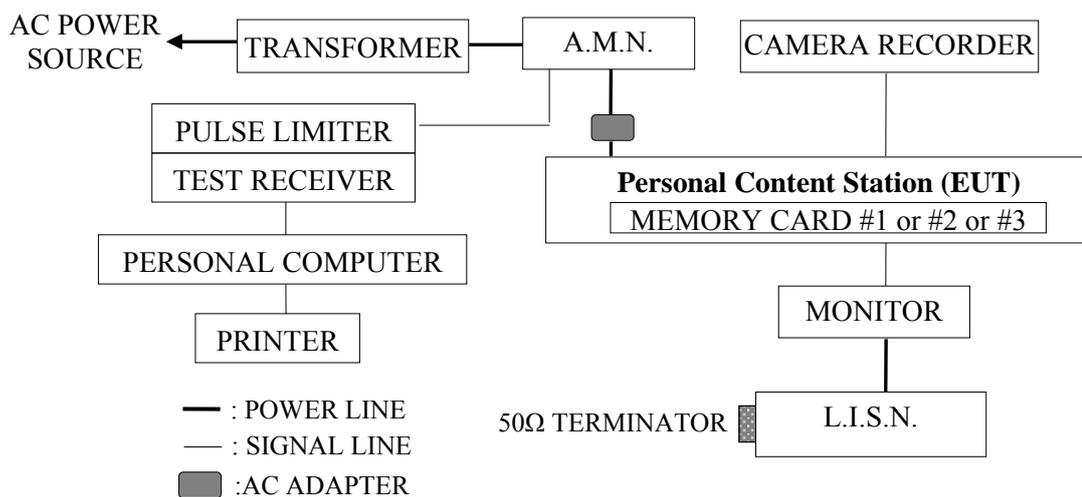
## 2. CONDUCTED EMISSION MEASUREMENT

### 2.1. Test Equipment

The following test equipment was used during the conducted emission measurement :  
 (No. 3 Shielded Room)

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Test Receiver	R&S	ESCS30	100337	Apr. 09, 12'	Apr. 08, 13'
2.	A.M.N.	Kyoritsu	KNW-244C	8-1373-5	Mar. 27, 12'	Mar. 26, 13'
3.	L.I.S.N.	Kyoritsu	KNW-407	8-1370-9	Mar. 08, 12'	Mar. 07, 13'
4.	Pulse Limiter	R&S	ESH3-Z2	100041	Feb. 01, 12'	Jan. 31, 13'

### 2.2. Block Diagram of Test Setup



### 2.3. Powerline Conducted Emission Limit §15.207, Class B,

RSS-Gen §7.2.2/Table 2]

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level	Average Level
150kHz ~ 500kHz	66 ~ 56 dB $\mu$ V	56 ~ 46 dB $\mu$ V
500kHz ~ 5MHz	56 dB $\mu$ V	46 dB $\mu$ V
5MHz ~ 30MHz	60 dB $\mu$ V	50 dB $\mu$ V

Remark 1.: If the average limit is met when using a Quasi-Peak detector, the EUT shall be deemed to meet both limits and measurement with the average detector is unnecessary.

2.: The lower limit applies at the band edges.

## 2.4. Operating Condition of EUT

- 2.4.1. Setup the EUT and simulator as shown on 2.2.
- 2.4.2. Turn on the power of all equipment.
- 2.4.3. The **EUT (Personal Content Station)** was on transmitting function at work during all testing.

## 2.5. Test Procedure

The EUT was placed on the table which was above the ground by 80cm and Notebook its' adapter's power cord connected to the AC mains through an Artificial Mains Network (A.M.N.). This provided a 50 ohm coupling impedance for the measuring equipment. (Please refer to the block diagram of the test setup and photographs.) Both sides of A.C. line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions simulators of the interface cables should be manipulated according to ANSI C63.4-2003, RSS-Gen and RSS-210 regulation during conducted measurement.

The bandwidth of the R&S Test Receiver ESCI was set at 9kHz.

The frequency range from 150kHz to 30MHz was checked.

All the final readings from Test Receiver were measured with the Quasi-Peak detector and Average detector. Remark: If the Average limit is met when using a Quasi-Peak detector, the Average detector is unnecessary)

## 2.6. Conducted Emission Measurement Results

### **PASSED.**

(All the emissions not reported below are too low against the prescribed limits.)

EUT was performed during this section testing and all the test results are attached in next pages.

EUT : Personal Content Station    M/N : LLS-201

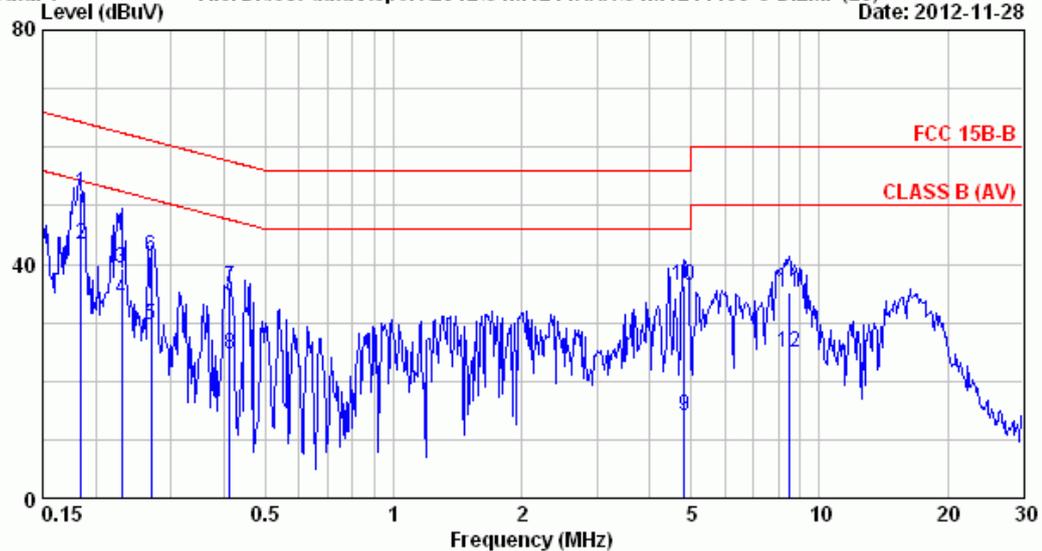
Test Date : Nov. 28, 2012      Temperature : 25°C      Humidity : 52%

Reference Test Data : Neutral # 4; Line # 3



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Data: 4 File: D:\test-data\Report\2012\C1M1211XXX\C1M1211100-C-D.EMI (28) Date: 2012-11-28



Site : No.3 Shielded Room Data : 4  
 Condition : KNW-244C Phase : NEUTRAL  
 Limit : FCC 15B-B  
 Env. / Ins. : 25°C / 52% ESCS 30 (337) Engineer: Edward  
 EUT M/N : LLS-201  
 Power Rating : 120Vac / 60Hz  
 Test Mode : Operating

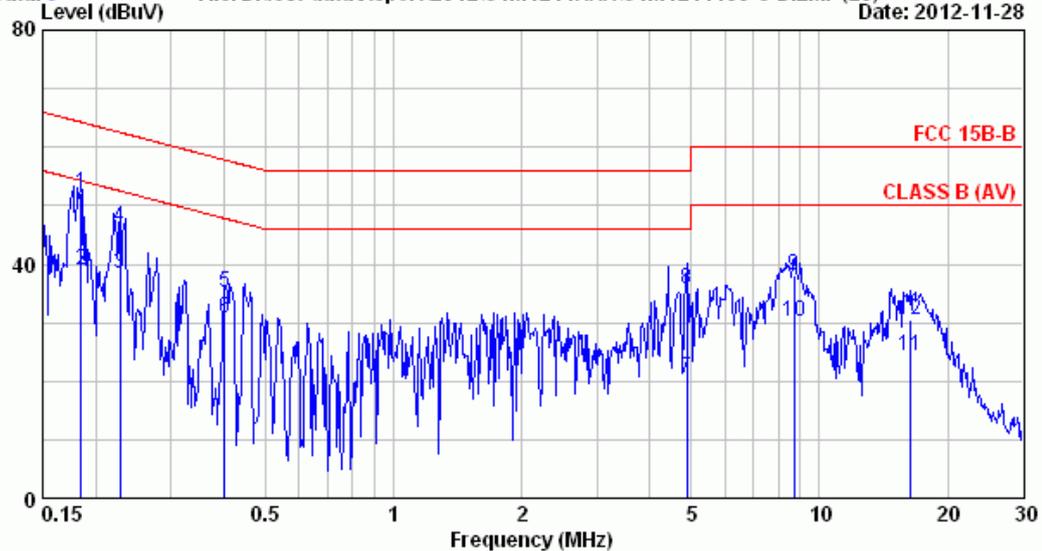
	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV)	Limits (dBµV)	Margin (dB)	Remark
1	0.184	0.11	0.20	51.91	52.22	64.28	12.06	QP
2	0.184	0.11	0.20	43.14	43.45	54.28	10.83	AVERAGE
3	0.230	0.10	0.20	39.00	39.30	52.44	13.14	AVERAGE
4	0.230	0.10	0.20	33.57	33.87	52.44	18.57	AVERAGE
5	0.270	0.10	0.20	29.28	29.58	51.12	21.54	AVERAGE
6	0.270	0.10	0.20	40.90	41.20	61.12	19.92	QP
7	0.413	0.10	0.20	35.84	36.14	57.59	21.45	QP
8	0.413	0.10	0.20	24.37	24.67	47.59	22.92	AVERAGE
9	4.822	0.22	0.60	13.21	14.03	46.00	31.97	AVERAGE
10	4.822	0.22	0.60	35.38	36.20	56.00	19.80	QP
11	8.501	0.28	0.60	34.21	35.09	60.00	24.91	QP
12	8.501	0.28	0.60	24.05	24.93	50.00	25.07	AVERAGE

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Data: 3 File: D:\test-data\Report\2012\C1M1211XXX\C1M1211100-C-D.EMI (28) Date: 2012-11-28



Site : No.3 Shielded Room Data : 3  
 Condition : KNW-244C Phase : LINE  
 Limit : FCC 15B-B  
 Env. / Ins. : 25°C / 52% ESCS 30 (337) Engineer: Edward  
 EUT M/N : LLS-201  
 Power Rating : 120Vac / 60Hz  
 Test Mode : Operating

	Freq. (MHz)	AMN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.184	0.11	0.20	51.71	52.02	64.28	12.26	QP
2	0.184	0.11	0.20	38.67	38.98	54.28	15.30	AVERAGE
3	0.228	0.10	0.20	37.96	38.26	52.52	14.26	AVERAGE
4	0.228	0.10	0.20	45.94	46.24	62.52	16.28	QP
5	0.402	0.10	0.20	34.85	35.15	57.81	22.66	QP
6	0.402	0.10	0.20	30.45	30.75	47.81	17.06	AVERAGE
7	4.874	0.24	0.60	19.60	20.44	46.00	25.56	AVERAGE
8	4.874	0.24	0.60	34.94	35.78	56.00	20.22	QP
9	8.729	0.37	0.60	37.14	38.11	60.00	21.89	QP
10	8.729	0.37	0.60	29.15	30.12	50.00	19.88	AVERAGE
11	16.312	0.40	0.70	23.36	24.46	50.00	25.54	AVERAGE
12	16.312	0.40	0.70	29.50	30.60	60.00	29.40	QP

Remarks: 1. Emission Level= AMN Factor + Cable Loss + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

### 3. RADIATED EMISSION MEASUREMENT

#### 3.1. Test Equipment

The following test equipment was used during the radiated emission measurement:

##### 3.1.1. For Frequency Range 30MHz~1000MHz (at Semi-Anechoic Chamber)

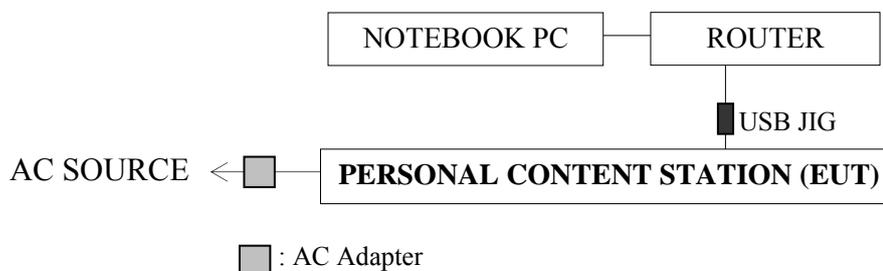
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 08, 12'	Aug. 06, 13'
2.	Test Receiver	R & S	ESCS30	100338	Jul. 04, 12'	Jul. 03, 13'
3.	Amplifier	HP	8447D	2944A06305	Feb. 13, 12'	Feb. 12, 13'
4.	Biconical Antenna	CHASE	VBA6106 A	1264	Mar. 03, 12'	Mar. 02, 13'
5.	Log Periodic Antenna	Schwarzbeck	UHALP91 08-A	0810	Mar. 03, 12'	Mar. 02, 13'

##### 3.1.2. For Frequency Above 1GHz (at Semi-Anechoic Chamber)

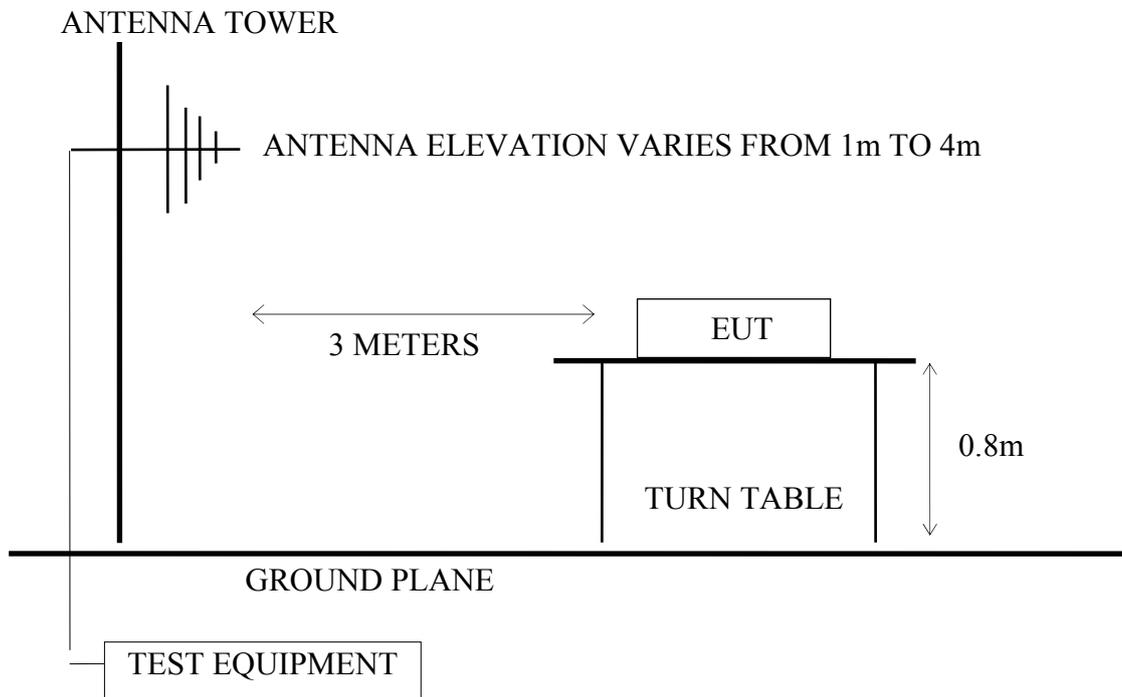
Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	E4446A	US44300366	Aug. 08, 12'	Aug. 06, 13'
2.	Amplifier	HP	8449B	3008A00529	Dec. 09, 11'	Dec. 08, 12'
3.	Horn Antenna	EMCO	3115	9112-3775	May 09, 12'	May 08, 13'
4.	Horn Antenna	EMCO	3116	2653	Oct. 15, 11'	Oct. 14, 13'
5.	2.4GHz Notch Filter	EWT	EWT-14-00 70-R1	G2	Feb. 15, 12'	Feb. 14, 13'
6.	3.5G High Pass Filter	HP	84300-8003 8	005	Dec. 15, 11'	Dec. 14, 12'
7.	Signal Generator	HP	83732B	US34490489	May 16, 12'	May 15, 13'

#### 3.2. Test Setup

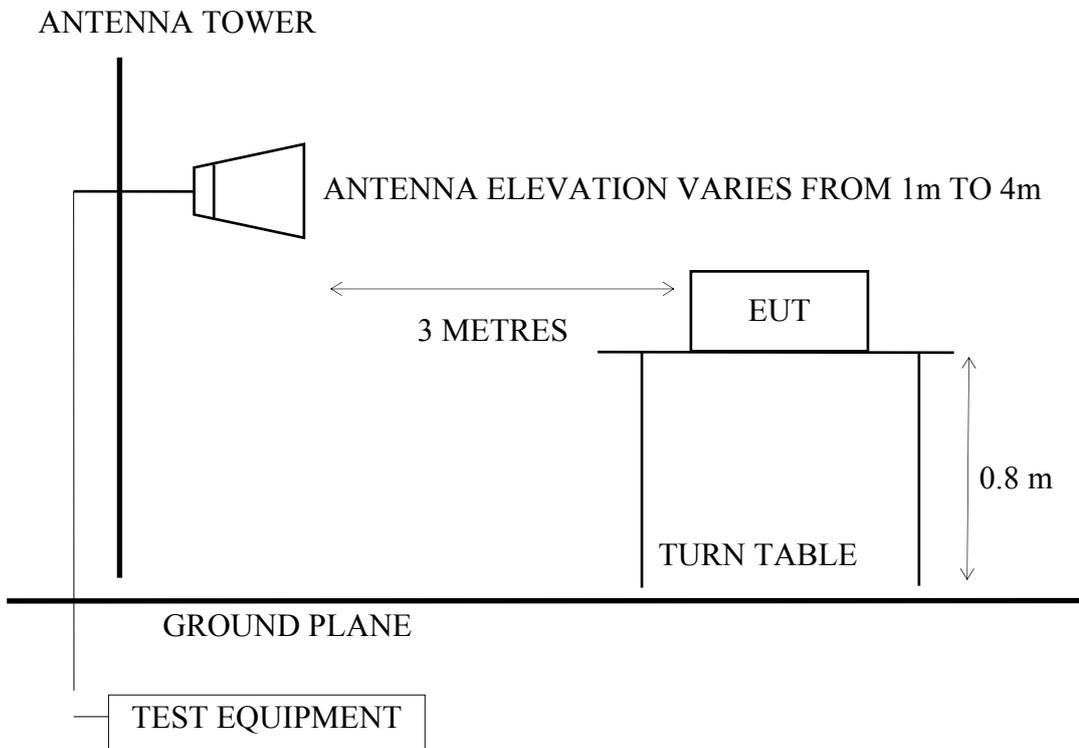
##### 3.2.1. Block Diagram of connection between EUT and simulators



3.2.2. Semi-Anechoic Chamber (3m) Setup Diagram for 30-1000MHz



3.2.3. Semi-Anechoic Chamber (3m) Setup Diagram for above 1GHz



### 3.3. Radiated Emission Limits (§15.209, RSS-210 §2.7/Table 2)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMITS	
		$\mu\text{V/m}$	$\text{dB}\mu\text{V/m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
Above 960	3	500	54.0
Above 1000	3	74.0 $\text{dB}\mu\text{V/m}$ (Peak) 54.0 $\text{dB}\mu\text{V/m}$ (Average)	

- Remark :
- (1) Emission level ( $\text{dB}\mu\text{V/m}$ ) = 20 log Emission level ( $\mu\text{V/m}$ )
  - (2) The tighter limit applies at the edge between two frequency bands.
  - (3) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
  - (4) The limits in this table are based on CFR 47 Part 15.205(a)(b) and Part 15.209 (a).
  - (5) The over 1GHz limit, FCC limit is used based on CFR 47 Part 15.35(b) and Part 15.205(b) & Part 15.209(e) and Part 15.207(c).

### 3.4. Operating Condition of EUT

- 3.4.1. Set up the EUT (Personal Content Station) via Notebook PC as shown on 3.2.
- 3.4.2. To turn on the power of all equipments.
- 3.4.3. The EUT was set the Notebook PC using test program “Lab Tool”.
- 3.4.4. The EUT supports 802.11b/g/n-HT20/n-HT40 modes, we performed high, middle, low channels for each mode for spurious emission and after testing we listed the worst channel of each mode in test report.

The worst channel of each mode as following:

Mode	Type of Network	Channel
1.	802.11b	CH 1
2.	802.11g	CH 6
3.	802.11n-HT20	CH 6
4.	802.11n-HT40	CH 6

### 3.5. Test Procedure

The EUT was placed on a turn table which was 0.8 meter above the ground. The turn table rotated 360 degrees to determine the position of the maximum emission level. EUT was set 3 meters away from the receiving antenna which was mounted on an antenna tower. The antenna moved up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna such as calibrated biconical and log-periodical antenna or horn antenna were used as a receiving antenna. Both horizontal and vertical polarization of the antenna were set on measurement. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4-2003, RSS-Gen and RSS-210 regulation.

The bandwidth of the R&S Test Receiver was set at 120kHz. (For 30MHz to 1000MHz)

The resolution bandwidth and video bandwidth of test spectrum analyzer is 1MHz for peak detection (PK) at frequency above 1GHz.

The resolution bandwidth of test spectrum analyzer is 1MHz and the video bandwidth is 10Hz for average detection (AV) at frequency above 1GHz.

The frequency range from 30MHz to 40GHz (Up to 10<sup>th</sup> harmonics from fundamental frequency) was checked. 30MHz to 1000MHz was measured with Quasi-Peak detector. Pursuant to ANSI C63.4 2.2, peak detector is an alternate option for frequency from 30MHz to 1000MHz.

For emissions above 1GHz were measured with peak and average detectors, and performed measurement in 1 m distance for frequency range from 5500MHz up to 40000MHz where there is no emission be found.

Pursuant to ANSI C63.4 8.3.1.2, when peak value complies with the average limit, we didn't perform measurement in average detector.

### 3.6. Test Results

#### **PASSED.**

(All emissions not reported for there is no emission be found.)

EUT : Personal Content Station

M/N : LLS-201

Test Date : Dec. 04, 2012    Temperature : 24°C    Humidity : 58%

#### **For Frequency Range 30MHz~1000MHz:**

The EUT with following test modes were performed during this section testing and all the test results are listed in section 3.6.1.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	802.11b	CH 6	2437MHz	Transmit	# 2	# 1
2.	802.11g	CH 6	2437MHz		# 1	# 2
3.	802.11n-HT20	CH 6	2437MHz		# 2	# 1
4.	802.11n-HT40	CH 9	2452MHz		# 1	# 2

\* Above all final readings were measured with Peak detector according to ANSI C 63.4 2.2.

#### **2.4GHz & 5.8GHz for Frequency above 1GHz:**

The EUT with following test modes was performed during this section testing and all the test results are listed in section 3.6.2.

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data			
					Horizontal		Vertical	
					Peak	Average	Peak	Average
1.	802.11b	CH 6	2437MHz	Transmit	# 3	--(Note2)	# 4	--(Note2)
2.	802.11g	CH 6	2437MHz		# 3	--(Note2)	# 4	--(Note2)
3.	802.11n-HT20	CH 6	2437MHz		# 3	--(Note2)	# 4	--(Note2)
4.	802.11n-HT40	CH 9	2452MHz		# 4	--(Note2)	# 3	--(Note2)

- Note: 1. Above all final readings were measured with Peak and Average detector.  
 2. For measurements above 1GHz to 2.68GHz or 4GHz to 5.5GHz, the peak measured value complies with the average limit, it is unnecessary to perform an average measurement. (According to ANSI C63.4-2003 section 8.3.1.2)  
 3. The emissions (up to 40GHz) not reported for there is no emission be found.

**For Restricted Bands:**

The EUT was tested in restricted bands and all the test results are listed in section 3.6.3. (The restricted bands defined in part 15.205(a))

Mode	Type of Network	Channel	Frequency	Test Mode	Reference Test Data	
					Horizontal	Vertical
1.	802.11b	CH 6	2412MHz	Transmit	# 3, # 4	# 1, # 2
2.		CH 11	2462MHz		# 5, # 6	# 7, # 8
3.	802.11g	CH 6	2412MHz	Transmit	# 3, # 4	# 1, # 2
4.		CH 11	2462MHz		# 5, # 6	# 7, # 8
5.	802.11n-HT20	CH 6	2412MHz	Transmit	# 3, # 4	# 1, # 2
6.		CH 11	2462MHz		# 5, # 6	# 7, # 8
7.	802.11n-HT40	CH 3	2422MHz	Transmit	# 3, # 4	# 1, # 2
8.		CH 9	2452MHz		# 5, # 6	# 7, # 8

3.6.1. For 30-1000MHz Frequency Range Measurement Results

**802.11b, Transmit, Frequency: 2437MHz**

Site no. : A/C Chamber site Data no. : 2  
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2437 MHz (802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	102.750	17.40	2.10	9.38	28.88	43.50	14.62	Peak
2	376.290	17.15	4.60	9.56	31.31	46.00	14.69	Peak
3	742.950	22.56	6.70	10.55	39.81	46.00	6.19	Peak
4	889.420	25.09	7.30	9.77	42.16	46.00	3.84	Peak
5	998.060	24.70	7.80	2.33	34.83	54.00	19.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber site Data no. : 1  
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL  
 Limit : FCC PART-15C  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2437 MHz (802.11b)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	98.870	16.96	2.10	12.26	31.32	43.50	12.18	Peak
2	278.320	25.25	3.80	7.59	36.64	46.00	9.36	Peak
3	376.290	17.15	4.60	5.49	27.24	46.00	18.76	Peak
4	513.060	19.95	6.80	5.28	32.03	46.00	13.97	Peak
5	889.420	25.09	7.30	7.67	40.06	46.00	5.94	Peak
6	998.060	24.70	7.80	6.10	38.60	54.00	15.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

**802.11g, Transmit, Frequency: 2437MHz**

Site no. : A/C Chamber site Data no. : 1  
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2437 MHz (802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	102.750	17.40	2.10	9.69	29.19	43.50	14.31	Peak
2	376.290	17.15	4.60	8.17	29.92	46.00	16.08	Peak
3	742.950	22.56	6.70	10.55	39.81	46.00	6.19	Peak
4	889.420	25.09	7.30	9.98	42.37	46.00	3.63	Peak
5	998.060	24.70	7.80	2.33	34.83	54.00	19.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber site Data no. : 2  
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL  
 Limit : FCC PART-15C  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2437 MHz (802.11g)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	172.590	21.04	2.80	14.48	38.33	43.50	5.17	Peak
2	376.290	17.15	4.60	4.28	26.03	46.00	19.97	Peak
3	513.060	19.95	6.80	3.02	29.77	46.00	16.23	Peak
4	742.950	22.56	6.70	5.37	34.63	46.00	11.37	Peak
5	889.420	25.09	7.30	7.83	40.22	46.00	5.78	Peak
6	998.060	24.70	7.80	6.47	38.97	54.00	15.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

**802.11n-HT20, Transmit, Frequency: 2437MHz**

Site no. : A/C Chamber site Data no. : 2  
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2437 MHz (802.11n HT-20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	102.750	17.40	2.10	9.38	28.88	43.50	14.62	Peak
2	376.290	17.15	4.60	8.57	30.32	46.00	15.68	Peak
3	742.950	22.56	6.70	10.97	40.23	46.00	5.77	Peak
4	889.420	25.09	7.30	9.80	42.19	46.00	3.81	Peak
5	998.060	24.70	7.80	2.00	34.50	54.00	19.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber site Data no. : 1  
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL  
 Limit : FCC PART-15C  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2437 MHz (802.11n HT-20)

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1	83.350	14.41	1.90	21.92	38.23	40.00	1.77	Peak
2	376.290	17.15	4.60	4.37	26.12	46.00	19.88	Peak
3	513.060	19.95	6.80	3.69	30.44	46.00	15.56	Peak
4	742.950	22.56	6.70	5.28	34.54	46.00	11.46	Peak
5	889.420	25.09	7.30	7.89	40.28	46.00	5.72	Peak
6	998.060	24.70	7.80	6.10	38.60	54.00	15.40	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

**802.11n-HT40, Transmit, Frequency: 2452MHz**

Site no. : A/C Chamber site Data no. : 1  
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2452 MHz (802.11n HT-40)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
93.050	16.25	2.00	13.68	31.93	43.50	11.57	Peak
376.290	17.15	4.60	7.93	29.68	46.00	16.32	Peak
742.950	22.56	6.70	10.16	39.42	46.00	6.58	Peak
889.420	25.09	7.30	9.84	42.23	46.00	3.77	Peak
957.320	26.33	7.60	1.89	35.82	46.00	10.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

Site no. : A/C Chamber site Data no. : 2  
 Dis. / Ant. : 3m VBA6106A/UHALP9108A Ant. pol. : VERTICAL  
 Limit : FCC PART-15C  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2452 MHz (802.11n HT-40)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1 144.460	20.31	2.60	14.66	37.57	43.50	5.93	Peak
2 513.060	19.95	6.80	3.66	30.41	46.00	15.59	Peak
3 624.610	21.31	6.20	3.88	31.39	46.00	14.61	Peak
4 742.950	22.56	6.70	5.05	34.31	46.00	11.69	Peak
5 889.420	25.09	7.30	8.74	41.13	46.00	4.87	Peak
6 998.060	24.70	7.80	6.59	39.09	54.00	14.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



**802.11g, Transmit, Frequency: 2437MHz**

Site no. : A/C Chamber site Data no. : 3  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2437 MHz (802.11g)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1003.360	24.30	4.18	16.23	44.71	54.00	9.29	Peak
1376.320	25.36	5.07	15.43	45.86	54.00	8.14	Peak
1540.960	25.89	5.70	20.55	52.15	54.00	1.85	Peak
1784.560	26.78	7.01	14.91	48.70	54.00	5.30	Peak

- Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.  
 3. Peak is compliance with average limit, thus we do not present AV value.

Site no. : A/C Chamber site Data no. : 4  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2437 MHz (802.11g)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1003.360	24.30	4.18	15.52	44.00	54.00	10.00	Peak
1250.320	25.02	4.68	15.93	45.63	54.00	8.37	Peak
1376.320	25.36	5.07	18.93	49.36	54.00	4.64	Peak
1784.560	26.78	7.01	12.19	45.98	54.00	8.02	Peak
2053.360	27.71	5.92	11.24	44.87	54.00	9.13	Peak
2569.120	28.93	6.58	15.62	51.13	54.00	2.87	Peak

- Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.  
 3. Peak is compliance with average limit, thus we do not present AV value.



**802.11n-HT40, Transmit, Frequency: 2452MHz**

Site no. : A/C Chamber site Data no. : 4  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2452 MHz (802.11n HT-40)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1006.720	24.30	4.19	17.83	46.32	54.00	7.68	Peak
1330.960	25.22	4.93	22.63	52.78	54.00	1.22	Peak
1540.960	25.89	5.70	20.38	51.98	54.00	2.02	Peak
1784.560	26.78	7.01	15.85	49.64	54.00	4.36	Peak
2658.160	29.27	6.71	16.94	52.91	54.00	1.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.  
 3. Peak is compliance with average limit, thus we do not present AV value.

Site no. : A/C Chamber site Data no. : 3  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2452 MHz (802.11n HT-40)

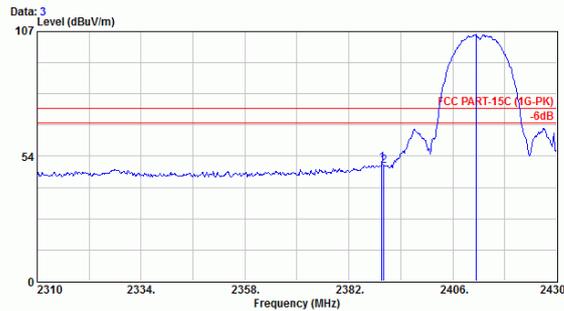
Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1003.360	24.30	4.18	18.25	46.73	54.00	7.27	Peak
1330.960	25.22	4.93	20.32	50.47	54.00	3.53	Peak
1708.960	26.52	6.89	19.53	52.94	54.00	1.06	Peak
2565.760	28.93	6.58	15.30	50.80	54.00	3.20	Peak
2653.120	29.21	6.71	13.94	49.87	54.00	4.13	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.  
 3. Peak is compliance with average limit, thus we do not present AV value.

### 3.6.3. Restricted Bands Measurement Results

Date of Test : Dec. 04, 2012 Temperature : 24°C  
 EUT : Personal Content Station Humidity : 58%  
 Test Mode : 802.11b, Transmit, Channel: 01, Frequency: 2412MHz

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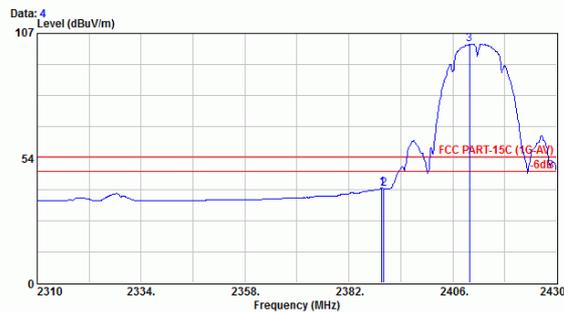


Site no. : A/C Chamber site Data no. : 3  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2412 MHz (802.11b)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2389.680	28.47	6.34	15.57	50.39	74.00	23.61	Peak
2 2390.040	28.47	6.34	14.58	49.40	74.00	24.60	Peak
3 2411.280	28.51	6.36	70.81	105.68	74.00	-31.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

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Site no. : A/C Chamber site Data no. : 4  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2412 MHz (802.11b)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2389.680	28.47	6.34	5.82	40.64	54.00	13.36	Average
2 2390.040	28.47	6.34	5.68	40.50	54.00	13.50	Average
3 2409.840	28.51	6.36	67.48	102.36	54.00	-48.36	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

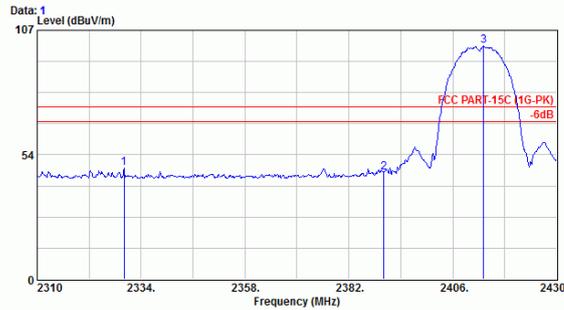
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11b, Transmit, Channel: 01, Frequency: 2412MHz



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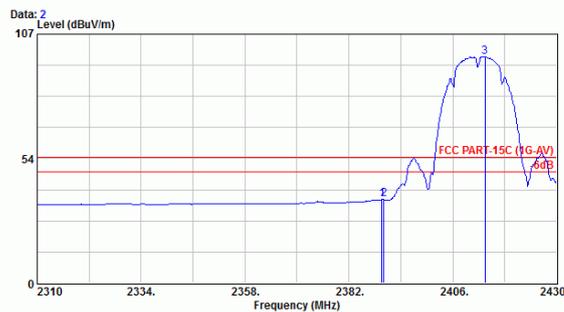
Site no. : A/C Chamber site Data no. : 1  
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
Limit : FCC PART-15C (1G-PK)  
Env. / Ins. : E4446A 24°C/58% Vic Fong  
EUT : LLS-201  
Power Rating : AC120 / 60Hz  
Test Mode : TX2412 MHz (802.11b)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1 2330.040	28.32	6.26	13.20	47.78	74.00	26.22	Peak
2 2390.040	28.47	6.34	11.08	45.90	74.00	28.10	Peak
3 2413.080	28.51	6.36	65.30	100.18	74.00	-26.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 2  
Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
Limit : FCC PART-15C (1G-AV)  
Env. / Ins. : E4446A 24°C/58% Vic Fong  
EUT : LLS-201  
Power Rating : AC120 / 60Hz  
Test Mode : TX2412 MHz (802.11b)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBµV)	Emission Level (dBµV/m)	Limits (dBµV/m)	Margin (dB)	Remark
1 2389.680	28.47	6.34	1.36	36.18	54.00	17.82	Average
2 2390.040	28.47	6.34	1.08	35.90	54.00	18.10	Average
3 2413.440	28.51	6.36	62.38	97.25	54.00	-43.25	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.

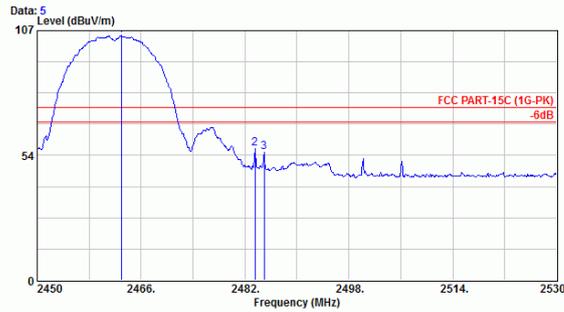
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11b, Transmit, Channel: 11, Frequency: 2462MHz



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 Email:ttenc@ttenc.com.tw



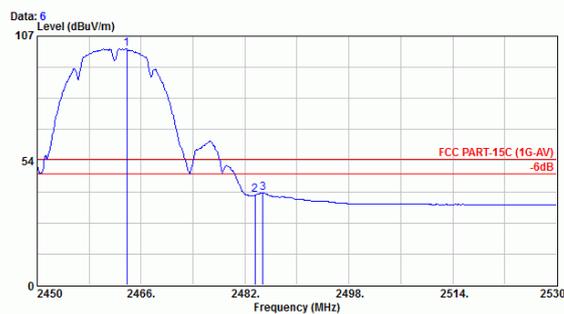
Site no. : A/C Chamber site Data no. : 5  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2462 MHz (802.11b)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2462.960	28.62	6.42	69.81	104.86	74.00	-30.86	Peak
2 2483.520	28.66	6.45	21.43	56.55	74.00	17.45	Peak
3 2484.960	28.66	6.45	19.59	54.70	74.00	19.30	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 6  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2462 MHz (802.11b)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2463.760	28.62	6.42	66.41	101.46	54.00	-47.46	Average
2 2483.520	28.66	6.45	3.53	38.65	54.00	15.35	Average
3 2484.720	28.66	6.45	4.59	39.70	54.00	14.30	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

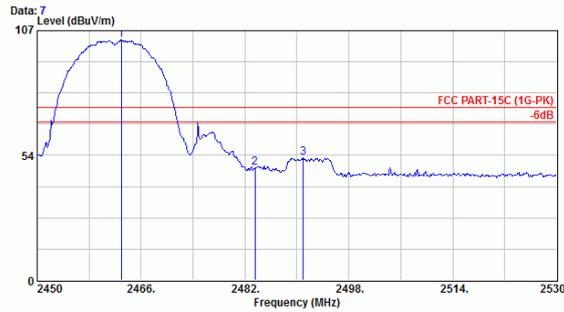
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11b, Transmit, Channel: 11, Frequency: 2462MHz



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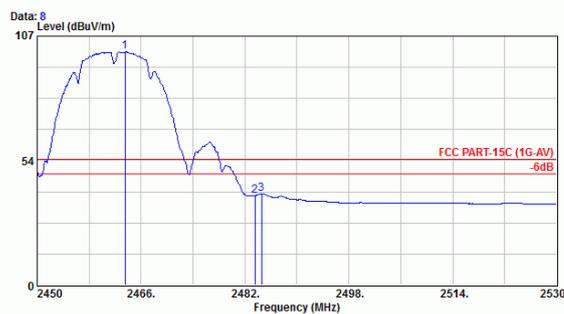
Site no. : A/C Chamber site Data no. : 7  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2462 MHz (802.11b)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2462.960	28.62	6.42	68.09	103.14	74.00	-29.14	Peak
2 2483.520	28.66	6.45	13.04	48.16	74.00	25.84	Peak
3 2490.960	28.70	6.46	17.33	52.49	74.00	21.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 8  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2462 MHz (802.11b)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2463.520	28.62	6.42	65.22	100.27	54.00	-46.27	Average
2 2483.520	28.66	6.45	3.32	38.44	54.00	15.56	Average
3 2484.560	28.66	6.45	4.26	39.37	54.00	14.63	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

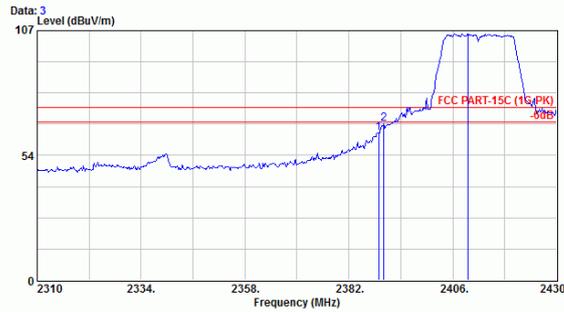
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11g, Transmit, Channel: 01, Frequency: 2412MHz



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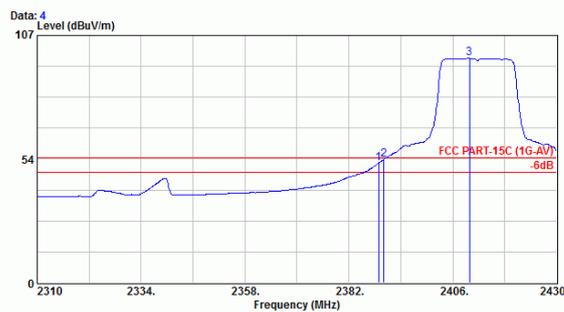
Site no. : A/C Chamber site Data no. : 3  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2412 MHz (802.11g)

	Ant. Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.840	28.47	6.34	28.21	63.02	74.00	10.98	Peak
2	2390.040	28.47	6.34	32.16	66.98	74.00	7.02	Peak
3	2409.480	28.51	6.36	70.68	105.56	74.00	-31.56	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 4  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2412 MHz (802.11g)

	Ant. Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.840	28.47	6.34	17.03	51.84	54.00	2.16	Average
2	2390.040	28.47	6.34	18.46	53.28	54.00	0.72	Average
3	2409.480	28.51	6.36	62.20	97.08	54.00	-43.08	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

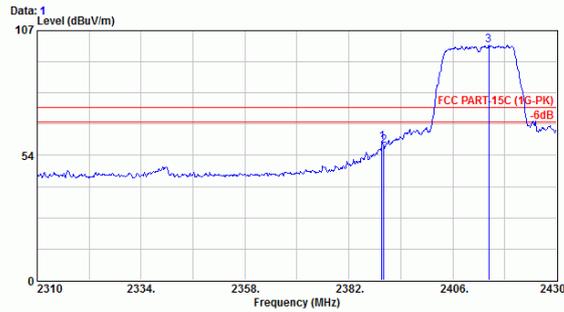
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11g, Transmit, Channel: 01, Frequency: 2412MHz



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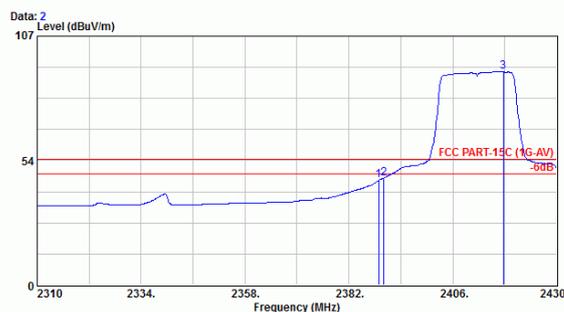
Site no. : A/C Chamber site Data no. : 1  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2412 MHz (802.11g)

	Ant. Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.680	28.47	6.34	24.50	59.32	74.00	14.68	Peak
2	2390.040	28.47	6.34	22.71	57.53	74.00	16.47	Peak
3	2414.280	28.51	6.36	65.91	100.78	74.00	-26.78	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 2  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2412 MHz (802.11g)

	Ant. Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.840	28.47	6.34	10.20	45.01	54.00	8.99	Average
2	2390.040	28.47	6.34	11.15	45.97	54.00	8.03	Average
3	2417.640	28.51	6.37	56.77	91.65	54.00	-37.65	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

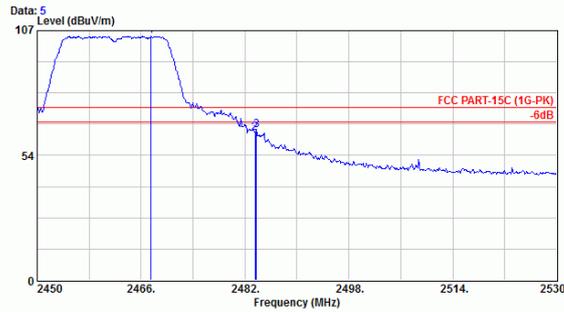
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11g, Transmit, Channel: 11, Frequency: 2462MHz



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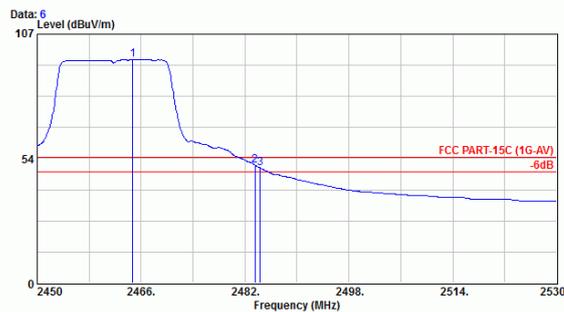
Site no. : A/C Chamber site Data no. : 5  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2462 MHz (802.11g)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2467.520	28.62	6.43	69.55	104.60	74.00	-30.60	Peak
2 2483.520	28.66	6.45	28.17	63.29	74.00	10.71	Peak
3 2483.760	28.66	6.45	29.19	64.31	74.00	9.69	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 6  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2462 MHz (802.11g)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2464.720	28.62	6.42	60.98	96.02	54.00	-42.02	Average
2 2483.520	28.66	6.45	15.64	50.76	54.00	3.24	Average
3 2484.320	28.66	6.45	14.28	49.40	54.00	4.60	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

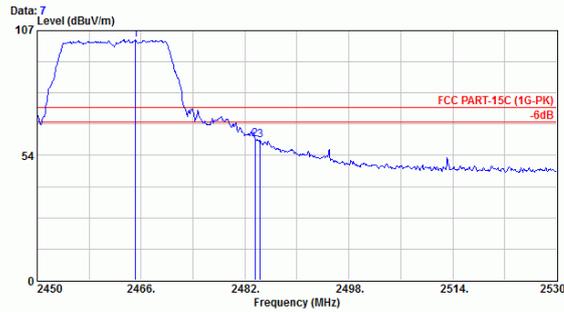
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11g, Transmit, Channel: 11, Frequency: 2462MHz



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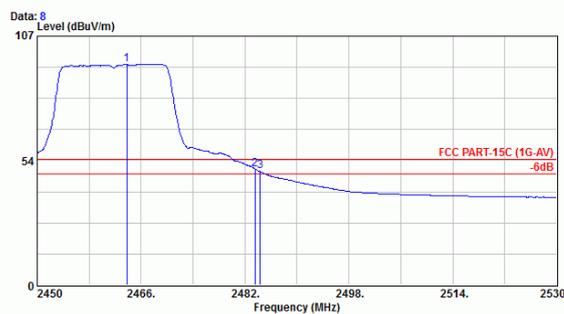
Site no. : A/C Chamber site Data no. : 7  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2462 MHz (802.11g)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2465.120	28.62	6.42	68.01	103.06	74.00	-29.06	Peak
2 2483.520	28.66	6.45	25.32	60.44	74.00	13.56	Peak
3 2484.320	28.66	6.45	24.82	59.94	74.00	14.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 8  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2462 MHz (802.11g)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2463.760	28.62	6.42	59.78	94.83	54.00	-40.83	Average
2 2483.520	28.66	6.45	14.77	49.89	54.00	4.11	Average
3 2484.320	28.66	6.45	13.70	48.82	54.00	5.18	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

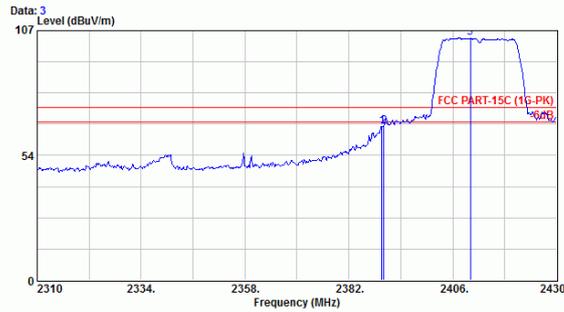
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11n-HT20, Transmit, Channel: 01, Frequency: 2412MHz



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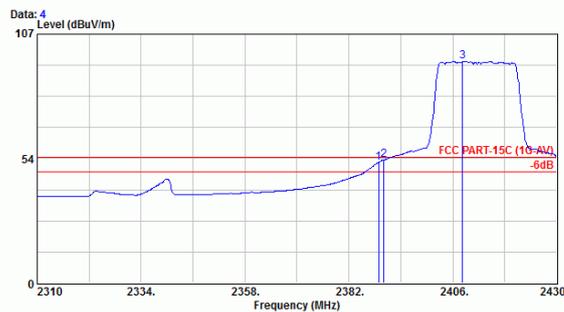
Site no. : A/C Chamber site Data no. : 3  
 Dia. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2412 MHz (802.11n HT-20)

	Ant. Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.680	28.47	6.34	31.09	65.91	74.00	8.09	Peak
2	2390.040	28.47	6.34	31.04	65.86	74.00	8.14	Peak
3	2410.080	28.51	6.36	68.98	103.86	74.00	-29.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 4  
 Dia. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2412 MHz (802.11n HT-20)

	Ant. Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.840	28.47	6.34	16.96	51.77	54.00	2.23	Average
2	2390.040	28.47	6.34	18.15	52.97	54.00	1.03	Average
3	2408.280	28.51	6.36	60.38	95.25	54.00	-41.25	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

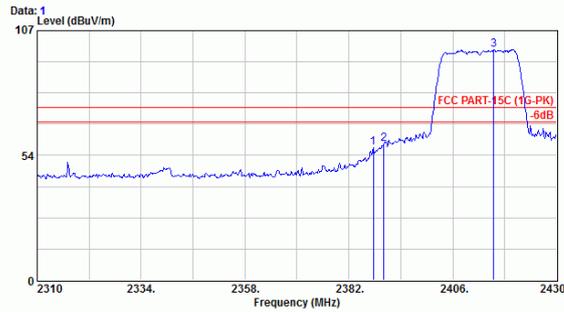
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11n-HT20, Transmit, Channel: 01, Frequency: 2412MHz



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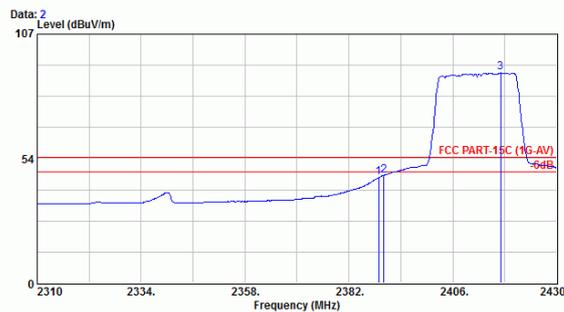
Site no. : A/C Chamber site Data no. : 1  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2412 MHz (802.11n HT-20)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2387.640	28.47	6.34	21.99	56.80	74.00	17.20	Peak
2 2390.040	28.47	6.34	23.43	58.25	74.00	15.75	Peak
3 2415.480	28.51	6.36	64.03	98.91	74.00	-24.91	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 2  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2412 MHz (802.11n HT-20)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2388.840	28.47	6.34	10.48	45.29	54.00	8.71	Average
2 2390.040	28.47	6.34	11.54	46.36	54.00	7.64	Average
3 2417.040	28.51	6.37	55.47	90.35	54.00	-36.35	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

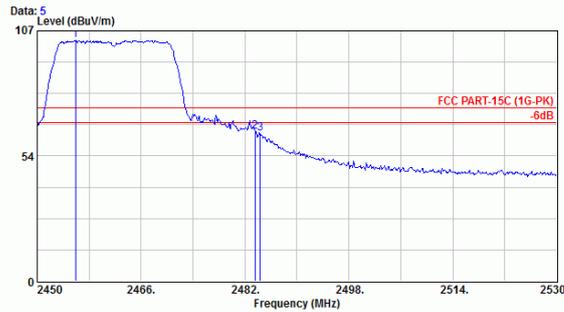
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz



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Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber site Data no. : 5  
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
Limit : FCC PART-15C (1G-PK)  
Env. / Ins. : E4446A 24°C/58% Vic Fong  
EUT : LLS-201  
Power Rating : AC120 / 60Hz  
Test Mode : TX2462 MHz (802.11n HT-20)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1 2455.920	28.62	6.42	67.92	102.96	74.00	-28.96	Peak
2 2483.520	28.66	6.45	28.89	64.01	74.00	9.99	Peak
3 2484.320	28.66	6.45	27.84	62.96	74.00	11.04	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.



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Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber site Data no. : 6  
Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
Limit : FCC PART-15C (1G-AV)  
Env. / Ins. : E4446A 24°C/58% Vic Fong  
EUT : LLS-201  
Power Rating : AC120 / 60Hz  
Test Mode : TX2462 MHz (802.11n HT-20)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBμV)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark
1 2454.960	28.62	6.42	59.24	94.29	54.00	-40.29	Average
2 2483.520	28.66	6.45	15.45	50.57	54.00	3.43	Average
3 2484.320	28.66	6.45	14.68	49.80	54.00	4.20	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
2. The emission levels that are 20dB below the official limit are not reported.

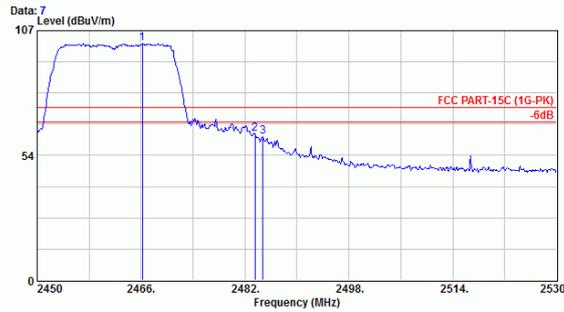
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11n-HT20, Transmit, Channel: 11, Frequency: 2462MHz



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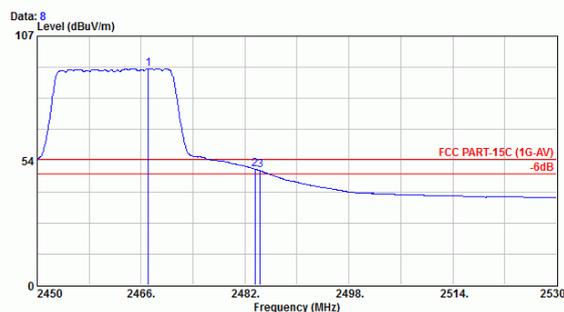
Site no. : A/C Chamber site Data no. : 7  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2462 MHz (802.11n HT-20)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2466.160	28.62	6.42	66.48	101.53	74.00	-27.53	Peak
2 2483.520	28.66	6.45	27.58	62.70	74.00	11.30	Peak
3 2484.720	28.66	6.45	26.51	61.62	74.00	12.38	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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 Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber site Data no. : 8  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2462 MHz (802.11n HT-20)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2467.120	28.62	6.42	57.97	93.02	54.00	-39.02	Average
2 2483.520	28.66	6.45	14.73	49.85	54.00	4.15	Average
3 2484.320	28.66	6.45	14.09	49.21	54.00	4.79	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

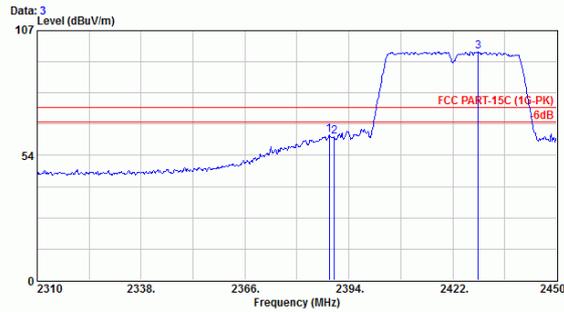
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11n-HT40, Transmit, Channel: 03, Frequency: 2422MHz



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 Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber site Data no. : 3  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2422 MHz (802.11n HT-40)

	Ant. Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.680	28.47	6.34	27.49	62.30	74.00	11.70	Peak
2	2390.080	28.47	6.34	26.53	61.35	74.00	12.65	Peak
3	2428.860	28.55	6.38	63.08	98.01	74.00	-24.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 4  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2422 MHz (802.11n HT-40)

	Ant. Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.680	28.47	6.34	14.98	49.79	54.00	4.21	Average
2	2390.080	28.47	6.34	15.31	50.13	54.00	3.87	Average
3	2411.780	28.51	6.36	54.36	89.23	54.00	-35.23	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

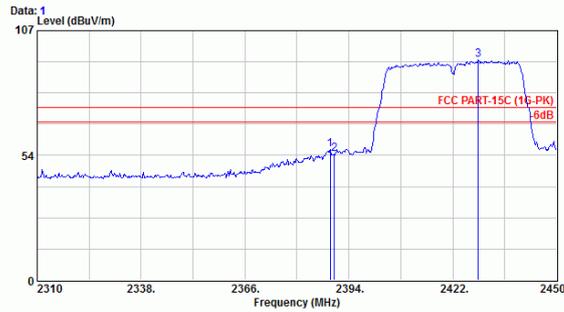
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11n-HT40, Transmit, Channel: 03, Frequency: 2422MHz



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 Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber site Data no. : 1  
 Dia. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2422 MHz (802.11n HT-40)

	Ant. Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.960	28.47	6.34	21.27	56.08	74.00	17.92	Peak
2	2390.080	28.47	6.34	19.39	54.21	74.00	19.79	Peak
3	2428.860	28.55	6.38	59.58	94.51	74.00	-20.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 2  
 Dia. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2422 MHz (802.11n HT-40)

	Ant. Freq. (MHz)	Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.680	28.47	6.34	8.34	43.15	54.00	10.85	Average
2	2390.080	28.47	6.34	8.85	43.67	54.00	10.33	Average
3	2430.960	28.55	6.39	50.61	85.55	54.00	-31.55	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

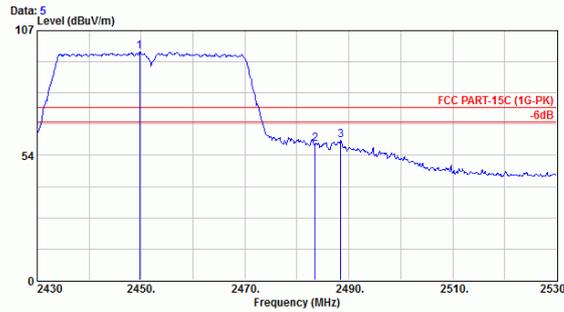
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11n-HT40, Transmit, Channel: 09, Frequency: 2452MHz



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 Email:ttenc@ttenc.com.tw



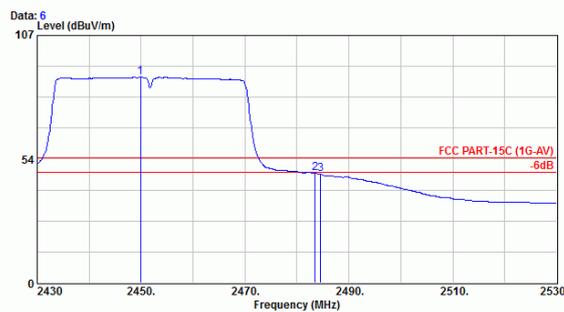
Site no. : A/C Chamber site Data no. : 5  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Pong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2452 MHz (802.11n HT-40)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2449.700	28.59	6.41	62.84	97.84	74.00	-23.84	Peak
2 2483.500	28.66	6.45	23.13	58.24	74.00	15.76	Peak
3 2488.400	28.70	6.45	24.85	60.00	74.00	14.00	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : A/C Chamber site Data no. : 6  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : HORIZONTAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Pong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2452 MHz (802.11n HT-40)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2449.900	28.59	6.41	53.92	88.92	54.00	-34.92	Average
2 2483.500	28.66	6.45	12.32	47.44	54.00	6.56	Average
3 2484.500	28.66	6.45	11.92	47.03	54.00	6.97	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

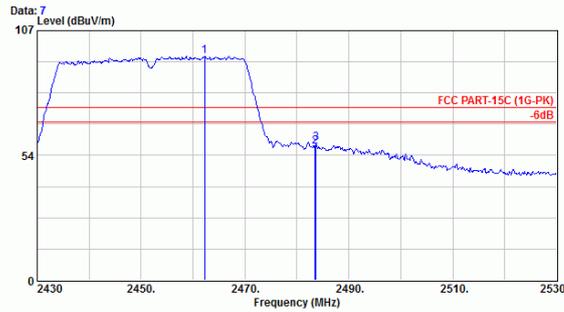
Date of Test : Dec. 04, 2012 Temperature : 24°C

EUT : Personal Content Station Humidity : 58%

Test Mode : 802.11n-HT40, Transmit, Channel: 09, Frequency: 2452MHz



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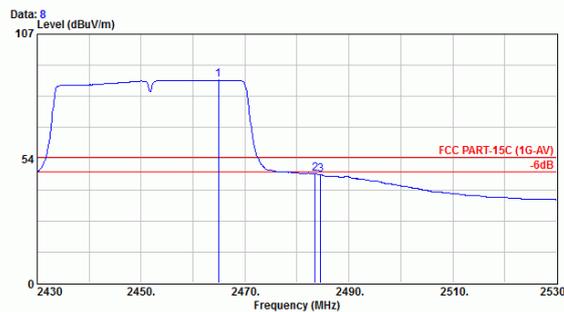
Site no. : A/C Chamber site Data no. : 7  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-PK)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2452 MHz (802.11n HT-40)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2462.200	28.62	6.42	61.02	96.07	74.00	-22.07	Peak
2 2483.500	28.66	6.45	21.99	57.10	74.00	16.90	Peak
3 2483.700	28.66	6.45	23.55	58.67	74.00	15.33	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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 Email:ttenc@ttenc.com.tw



Site no. : A/C Chamber site Data no. : 8  
 Dis. / Ant. : 3m 3115(4927) Ant. pol. : VERTICAL  
 Limit : FCC PART-15C (1G-AV)  
 Env. / Ins. : E4446A 24°C/58% Vic Fong  
 EUT : LLS-201  
 Power Rating : AC120 / 60Hz  
 Test Mode : TX2452 MHz (802.11n HT-40)

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2464.900	28.62	6.42	52.17	87.21	54.00	-33.21	Average
2 2483.500	28.66	6.45	11.83	46.95	54.00	7.05	Average
3 2484.500	28.66	6.45	11.61	46.72	54.00	7.28	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

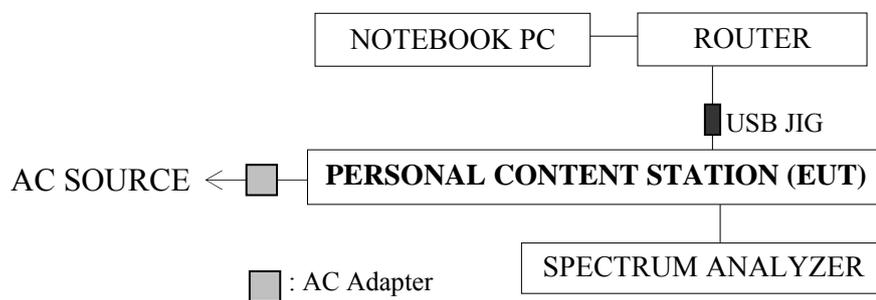
## 4. 6dB BANDWIDTH MEASUREMENT

### 4.1. Test Equipment

The following test equipment was used during the Emission Bandwidth measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	Oct. 17, 12'	Oct. 16, 13'

### 4.2. Block Diagram of Test Setup



### 4.3. Specification Limits [§15.247(a)(2), RSS-210 §A8.2 (a)]

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

### 4.4. Operating Condition of EUT

The test program “Lab Tool” was used to enable the EUT to transmit data at different channel frequency individually.

### 4.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measure by spectrum analyzer with 1-5% EBW (not to exceed 100kHz)  $VBW \geq 3 \times RBW$ . The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

The measurement guideline was according to KDB 558074 D01 V02.

#### 4.6. Test Results

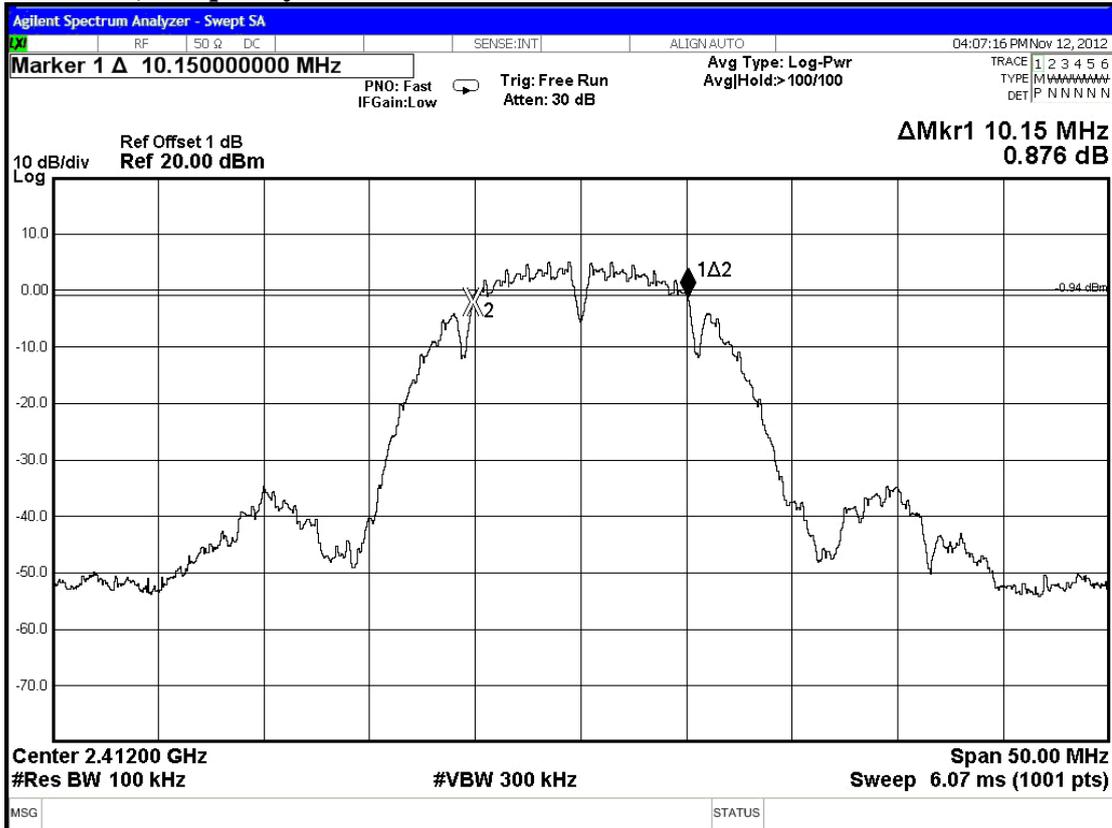
**PASSED.** All the test results are attached in next pages.

(Test Date : Nov. 12, 2012 Temperature : 25°C Humidity : 61%)

Mode	Type of Network	Channel	Frequency	6dB Bandwidth
1.	802.11b	CH 1	2412MHz	<b>10.15MHz</b>
2.		CH 6	2437MHz	<b>10.10MHz</b>
3.		CH 11	2462MHz	<b>10.10MHz</b>
4.	802.11g	CH 1	2412MHz	<b>16.60MHz</b>
5.		CH 6	2437MHz	<b>16.60MHz</b>
6.		CH 11	2462MHz	<b>16.60MHz</b>
7.	802.11n-HT20	CH 1	2412MHz	<b>17.85MHz</b>
8.		CH 6	2437MHz	<b>17.85MHz</b>
9.		CH 11	2462MHz	<b>17.85MHz</b>
10.	802.11n-HT40	CH 3	2422MHz	<b>36.64MHz</b>
11.		CH 6	2437MHz	<b>36.64MHz</b>
12.		CH 9	2452MHz	<b>36.56MHz</b>

[Limit: least 500kHz]

### 802.11b, Frequency: 2412MHz



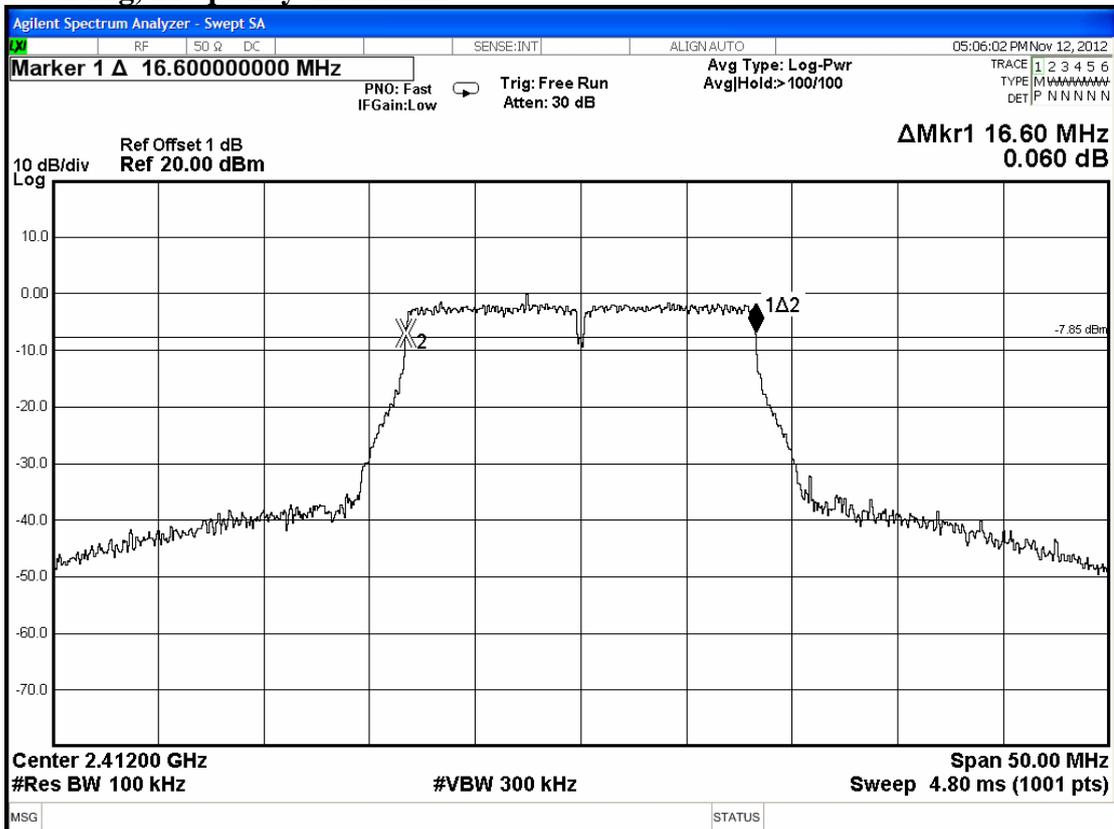
### 802.11b, Frequency: 2437MHz



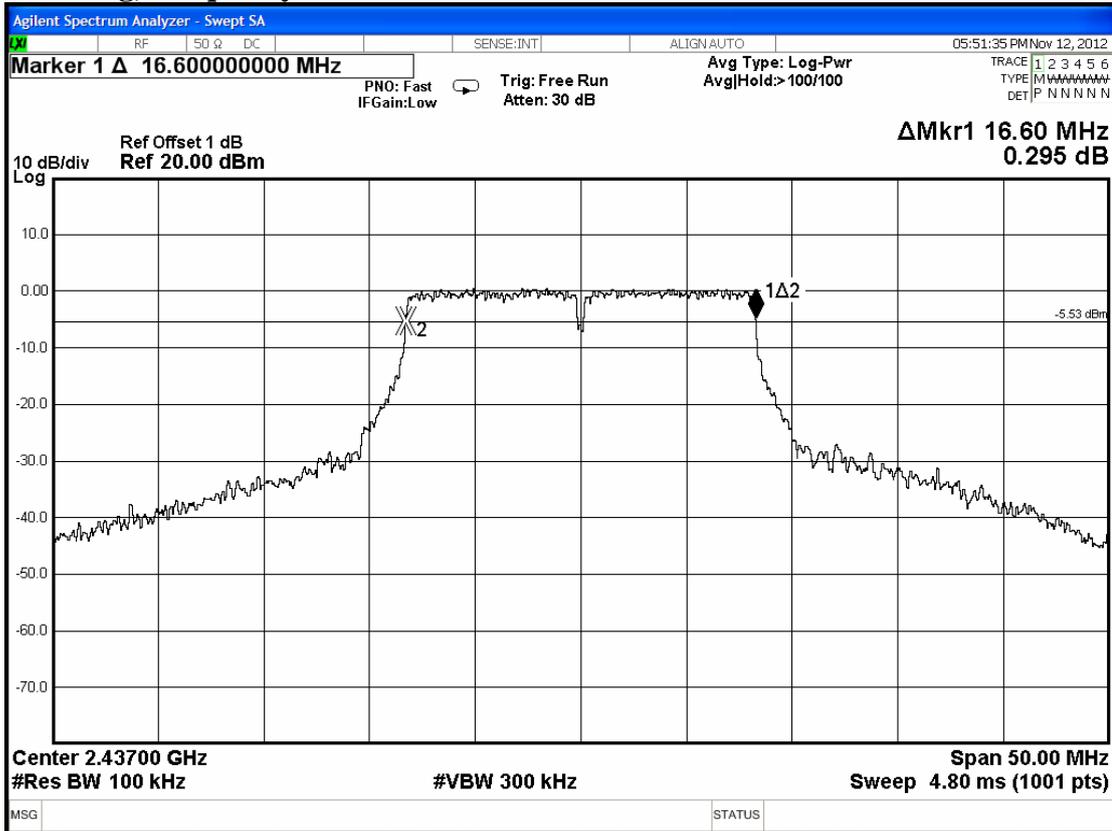
### 802.11b, Frequency: 2462MHz



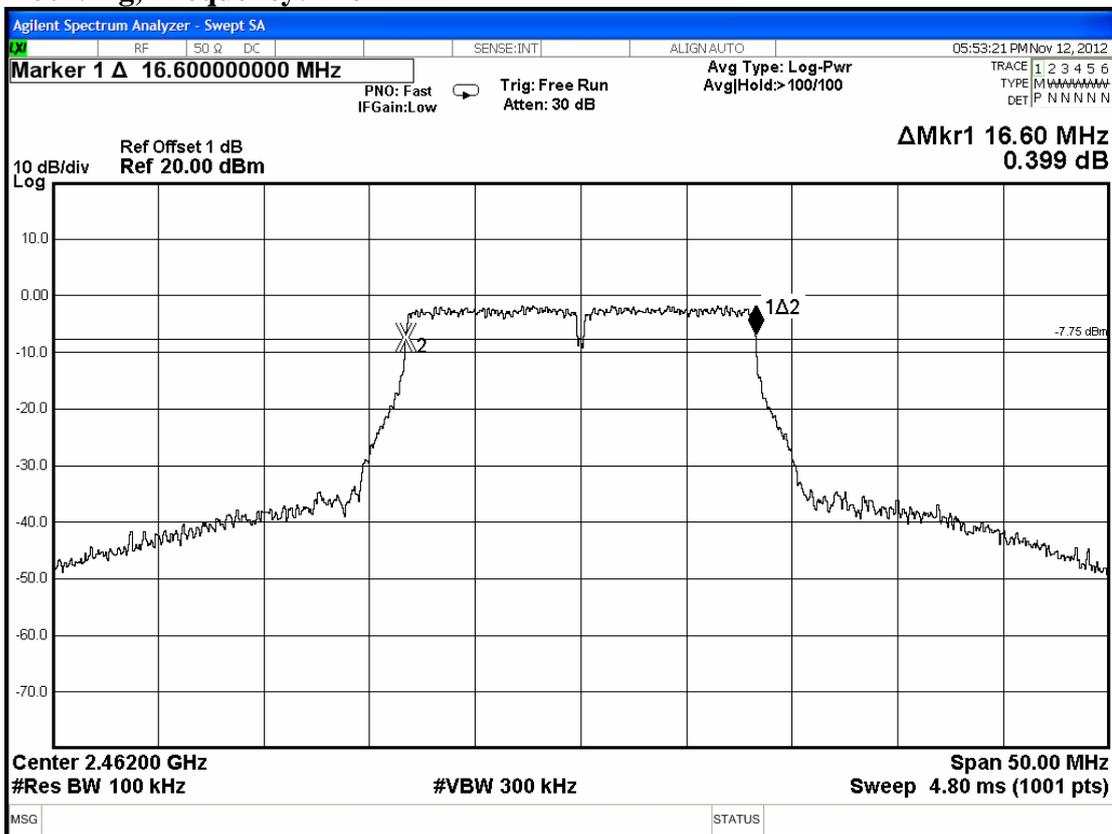
### 802.11g, Frequency: 2412MHz



### 802.11g, Frequency: 2437MHz



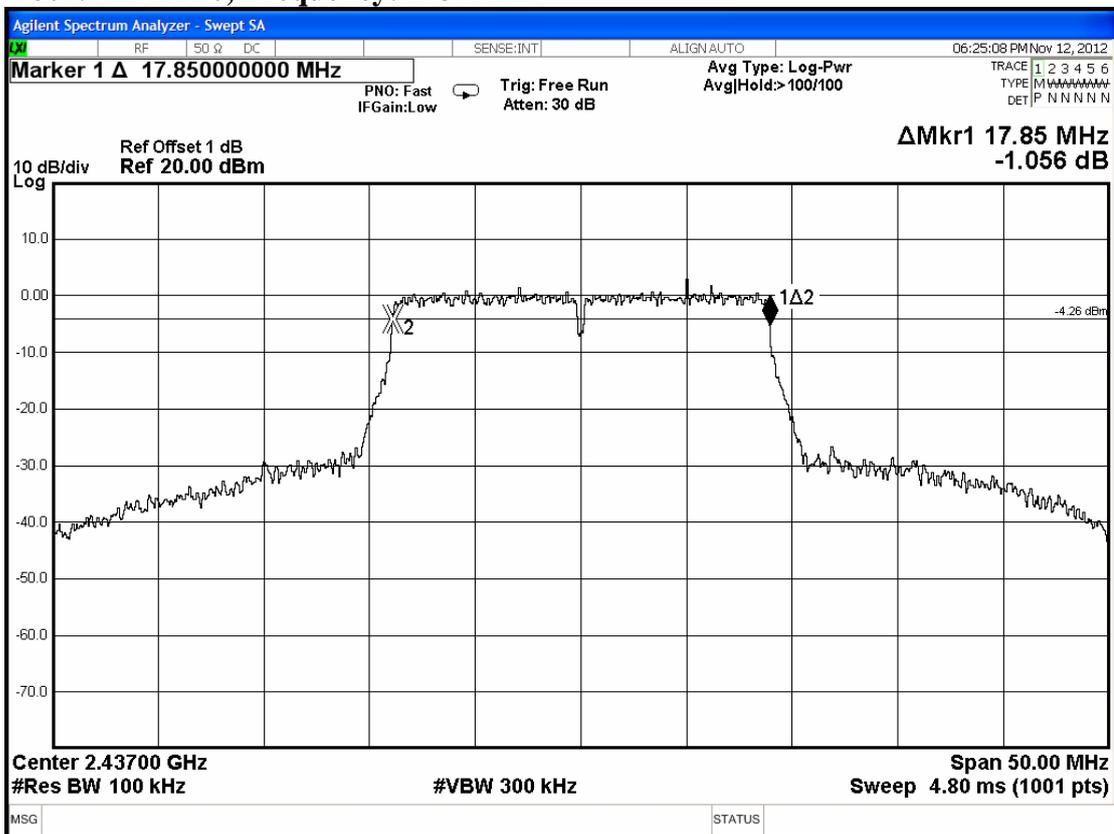
### 802.11g, Frequency: 2462MHz



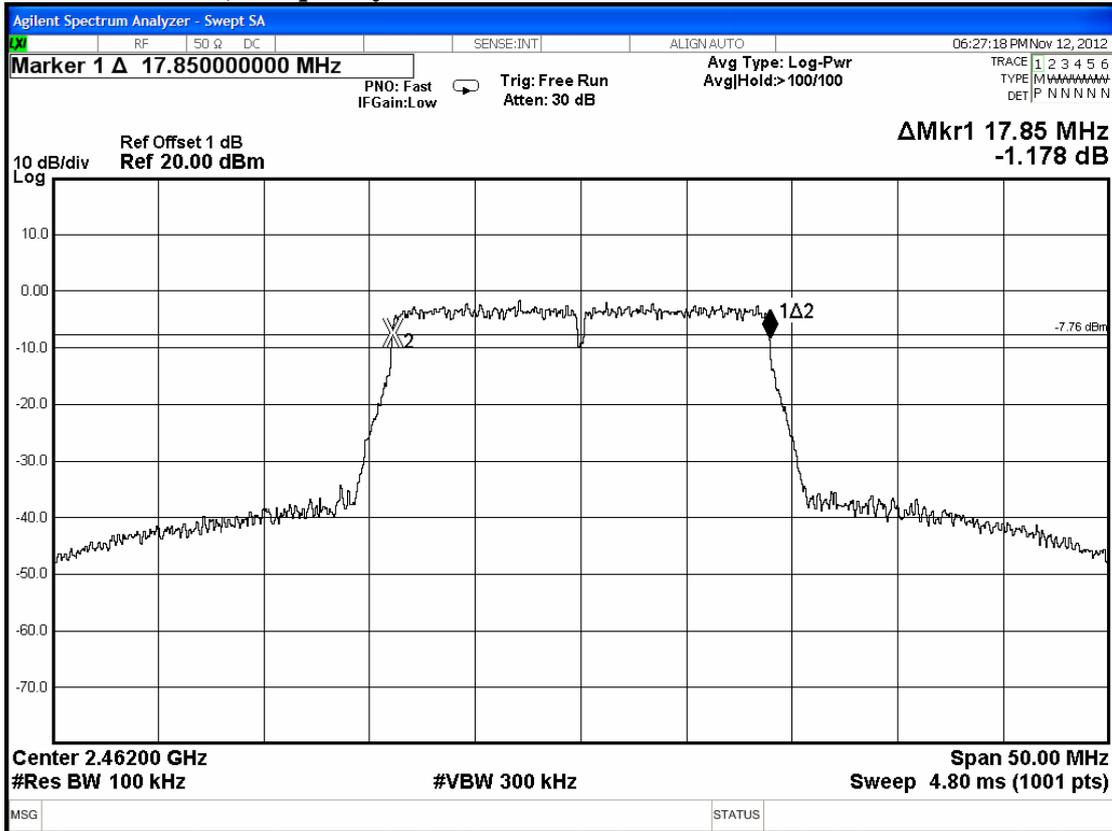
### 802.11n-HT20, Frequency: 2412MHz



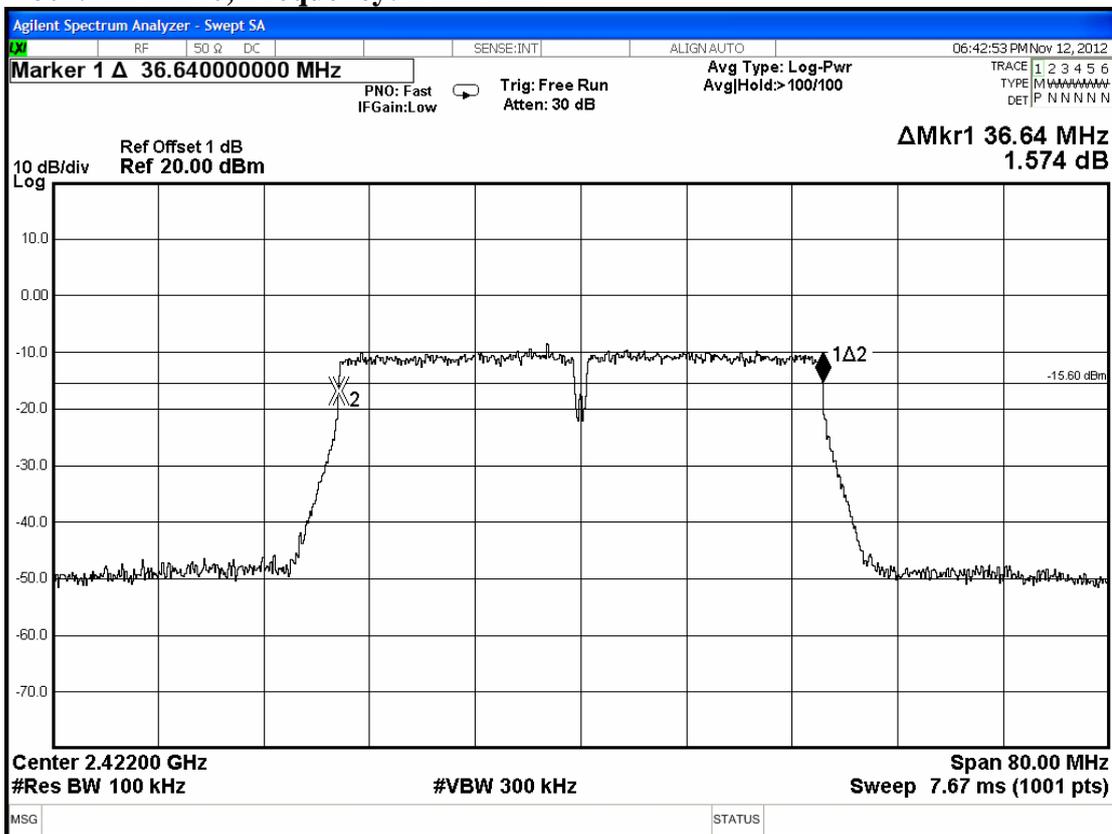
### 802.11n-HT20, Frequency: 2437MHz



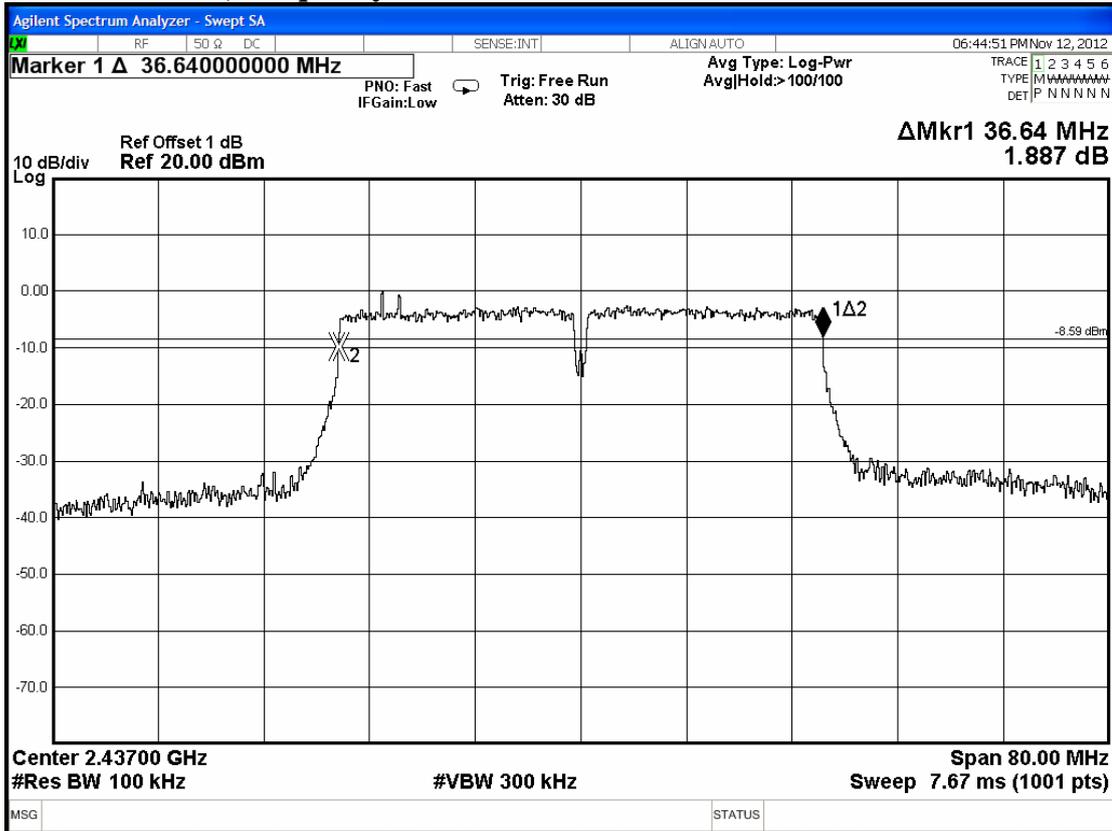
### 802.11n-HT20, Frequency: 2462MHz



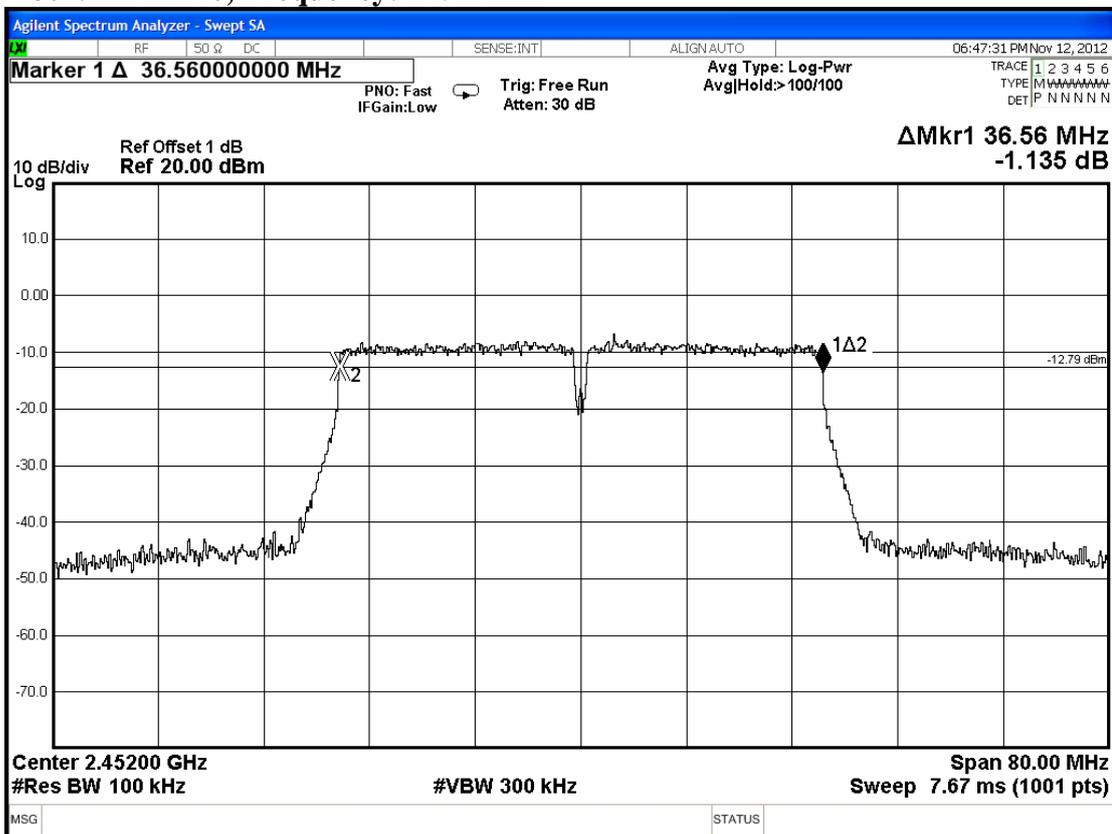
### 802.11n-HT40, Frequency: 2422MHz



### 802.11n-HT40, Frequency: 2437MHz



### 802.11n-HT40, Frequency: 2452MHz



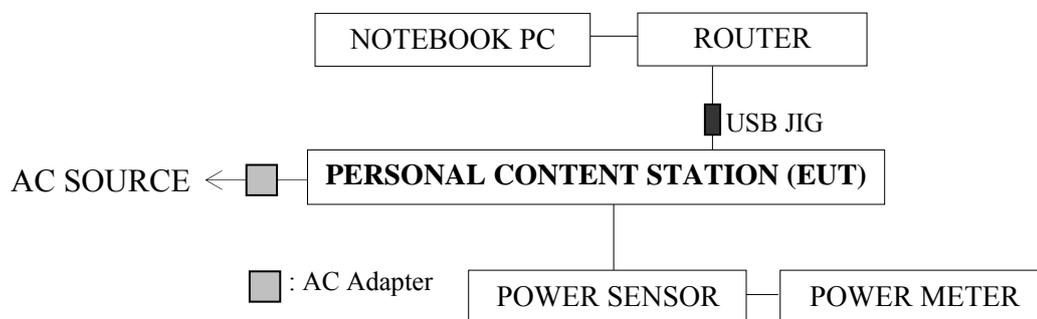
## 5. MAXIMUM PEAK OUTPUT POWER MEASUREMENT

### 5.1. Test Equipment

The following test equipment was used during the maximum peak output power measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Power Meter	Anritsu	ML2495A	1145008	Oct. 30, 12'	Oct. 29, 13'
2.	Power Sensor	Anritsu	MA2411B	1126096	Oct. 30, 12'	Oct. 29, 13'

### 5.2. Block Diagram of Test Setup



### 5.3. Specification Limits (§15.247(b)-(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz & 5725-5850MHz is : 1Watt. (30dBm)

### 5.4. Operating Condition of EUT

The test program “Lab Tool” was used to enable the EUT to transmit data at different channel frequency individually.

### 5.5. Test Procedure

The transmitter output was connected to the power sensor and record the reading of power meter.

The measurement guideline was according to KDB 558074 D01 V02.

## 5.6. Test Results

**PASSED.** All the test results are listed below.

(Test Date : Nov. 23, 2012 Temperature : 25°C Humidity : 60%)

### 5.6.1. For 802.11b/802.11g/802.11n-HT20/802.11n-HT40

Mode	Type of Network	Channel	Frequency	Peak Output Power (dBm)
1.	802.11b	CH 1	2412MHz	<b>15.57</b>
2.		CH 6	2437MHz	<b>15.65</b>
3.		CH 11	2462MHz	<b>15.05</b>
4.	802.11g	CH 1	2412MHz	<b>21.74</b>
5.		CH 6	2437MHz	<b>21.82</b>
6.		CH 11	2462MHz	<b>21.34</b>
7.	802.11n-HT20	CH 1	2412MHz	<b>19.36</b>
8.		CH 6	2437MHz	<b>19.56</b>
9.		CH 11	2462MHz	<b>19.22</b>
10.	802.11n-HT40	CH 3	2422MHz	<b>17.10</b>
11.		CH 6	2437MHz	<b>17.00</b>
12.		CH 9	2452MHz	<b>17.37</b>

**[Limit: 1Watt. (30dBm)]**

## **6. EMISSION LIMITATIONS MEASUREMENT**

**Pursuant to KDB558074 D02 that emission levels below limits specified in 15.209 would not be required.**

## 7. BAND EDGES MEASUREMENT

### 7.1. Test Equipment

The following test equipment was used during the band edges measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	Oct. 17, 12'	Oct. 16, 13'

### 7.2. Block Diagram of Test Setup

The same as section.4.2.

### 7.3. Specification Limits [§15.247(c), RSS-210 §A8.5]

7.3.1. The highest level should be at least 20 dB below that in the 100kHz bandwidth.

7.3.2. The reference level for determining limit of emission limitations is according to the value measured indicated in plots at section 8.6.

### 7.4. Operating Condition of EUT

The test program “Lab Tool” was used to enable the EUT to transmit data at different channel frequency individually.

### 7.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. Set both RBW=100 kHz and VBW to 300kHz with suitable frequency span including 100kHz bandwidth from band edge.

The measurement guideline was according to KDB 558074 D01 V02.

## 7.6. Test Results

**PASSED.** All the test results are attached in next pages.

Pursuant to KDB 662911, the test results of 802.11n-H20/H40 have been included 3 dB is calculated from  $10\log(N)$ , where N is the number of outputs.

(Test Date : Nov. 23, 2012    Temperature : 25°C    Humidity : 60%)

### **802.11b**

Below Band edge: The highest emission level is -51.386dBm on 2.39990GHz ◦

Upper Band edge : The highest emission level is -56.829dBm on 2.48360GHz ◦

### **802.11g**

Below Band edge: The highest emission level is -39.914dBm on 2.39990GHz ◦

Upper Band edge : The highest emission level is -45.829dBm on 2.48360GHz ◦

### **802.11n-HT20**

Below Band edge: The highest emission level is -39.668dBm on 2.39990GHz ◦

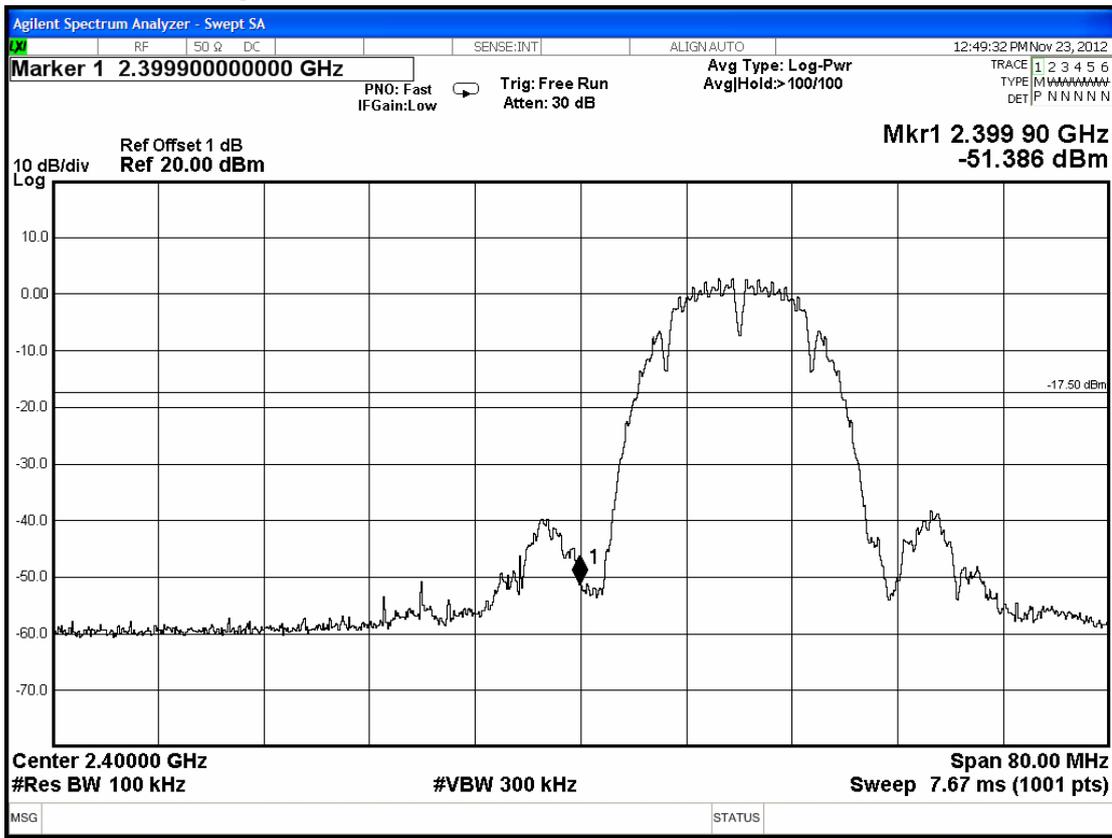
Upper Band edge : The highest emission level is -44.638dBm on 2.48360GHz ◦

### **802.11n-HT40**

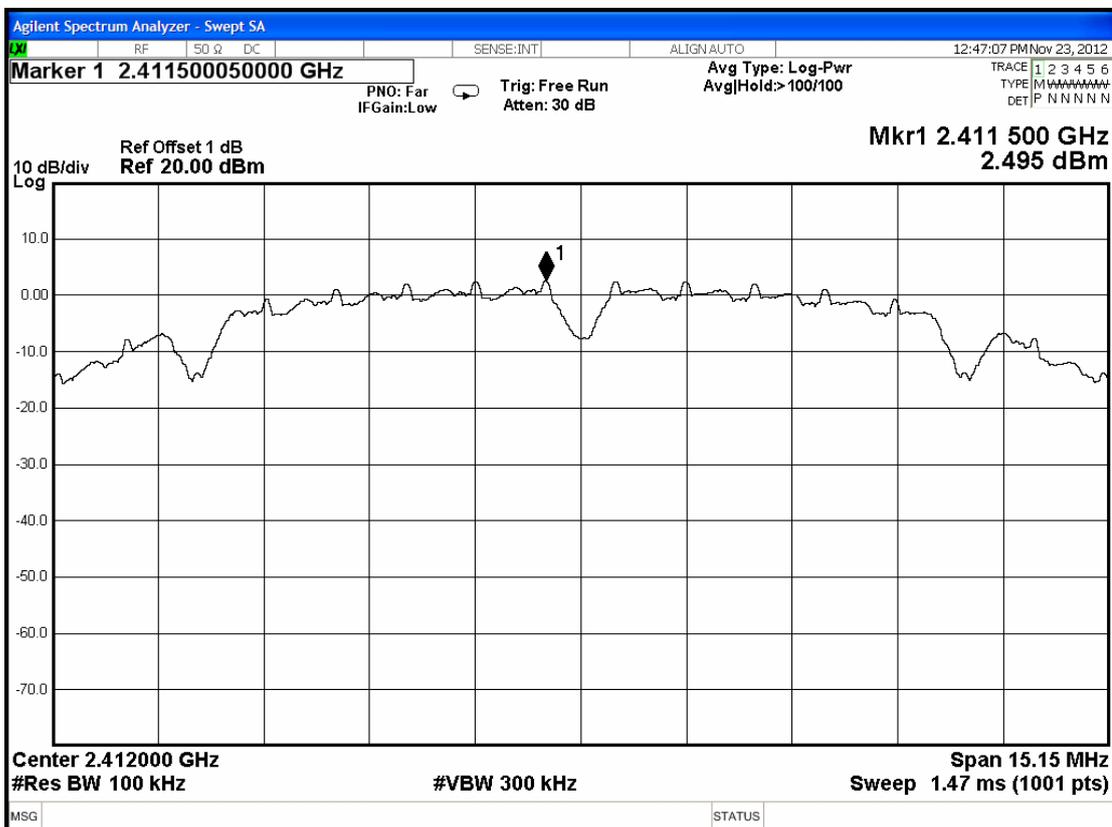
Below Band edge: The highest emission level is -46.183dBm on 2.39990GHz ◦

Upper Band edge : The highest emission level is -47.248dBm on 2.48360GHz ◦

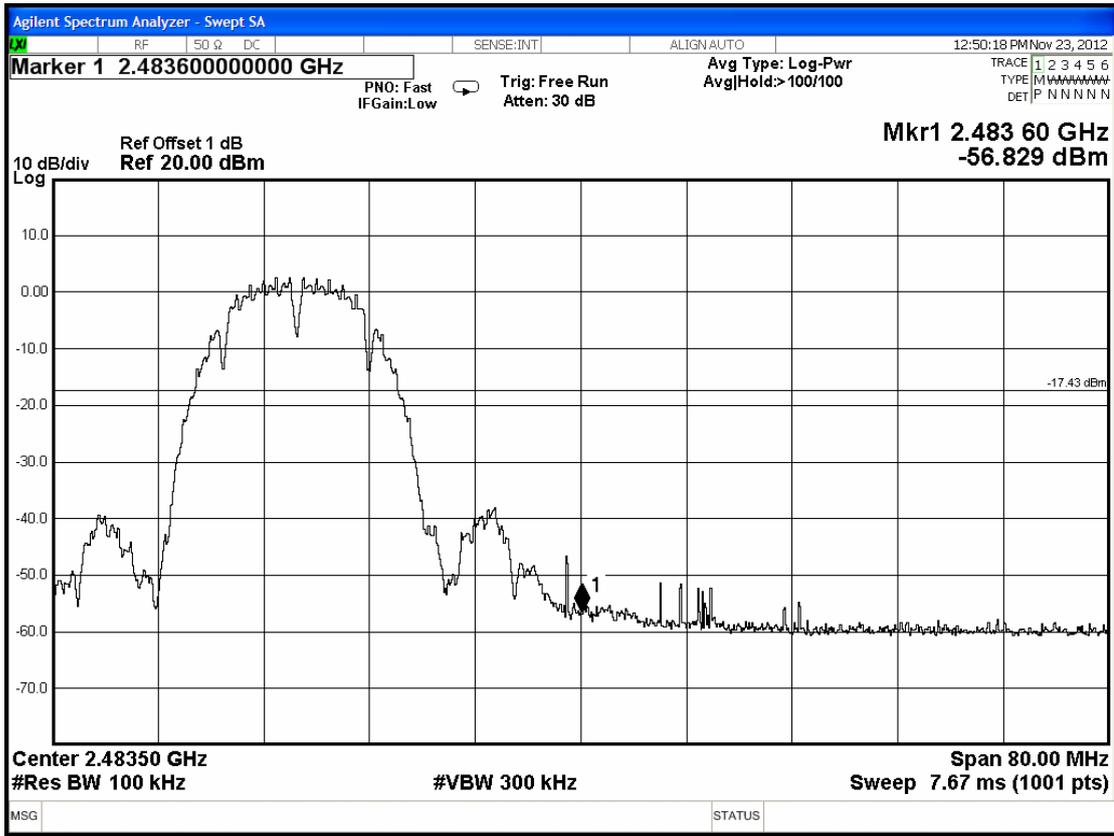
### 802.11b Below Band edge



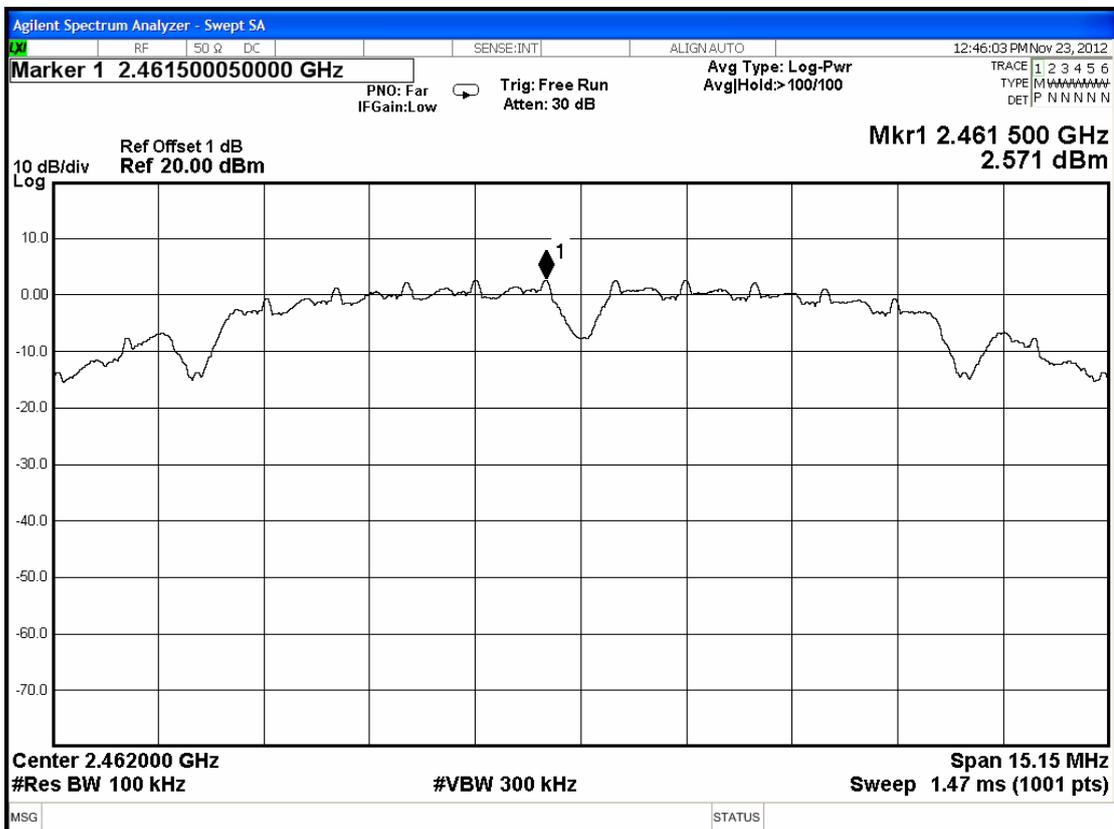
### Reference Level



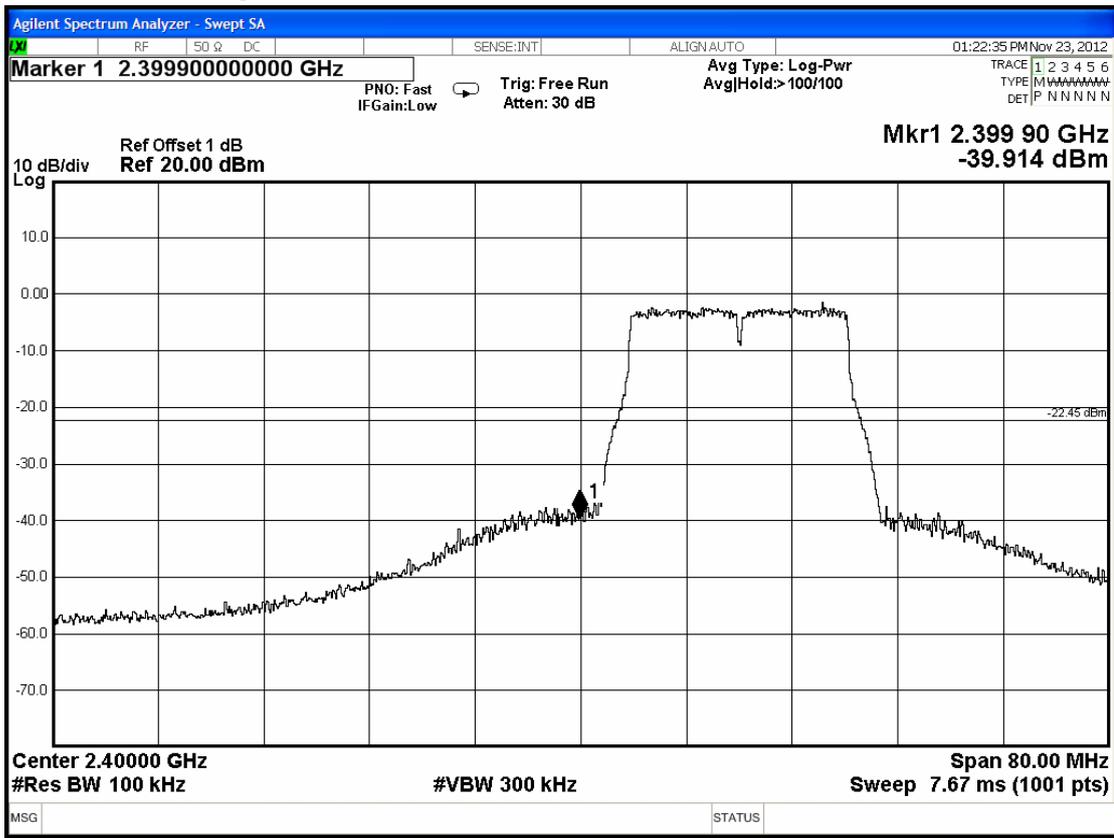
### 802.11b Upper Band edge



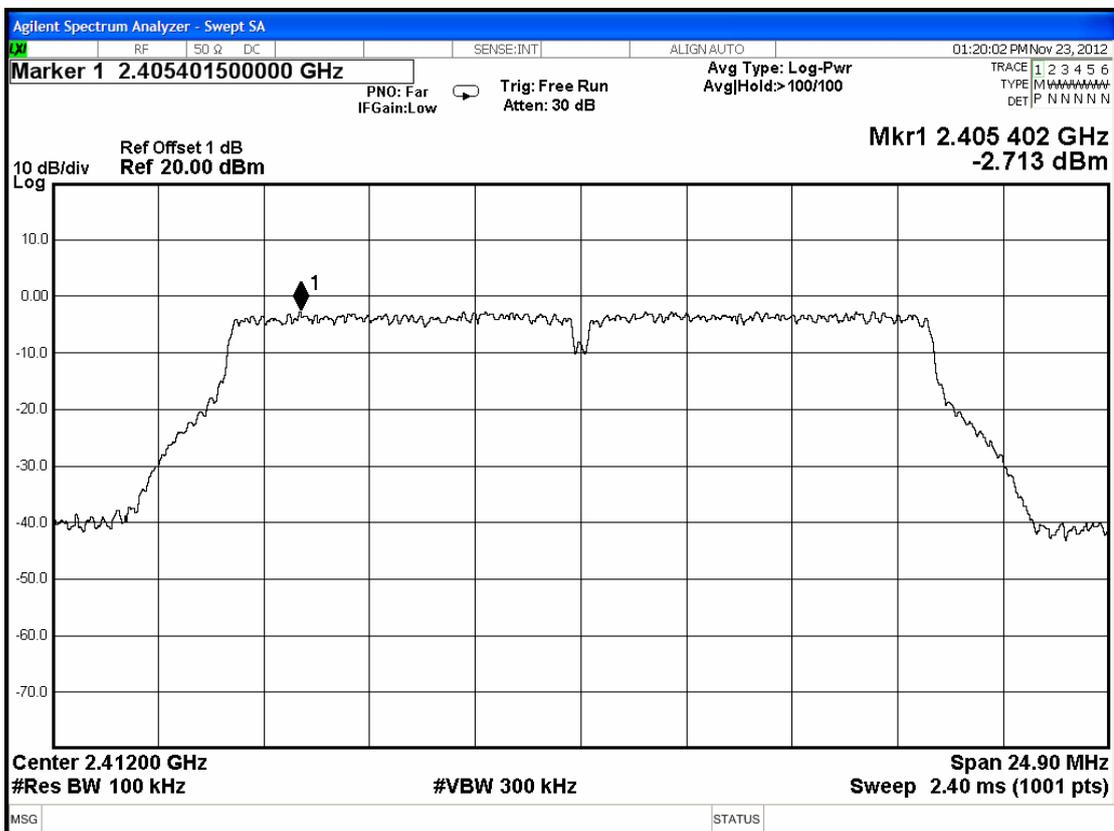
### Reference Level



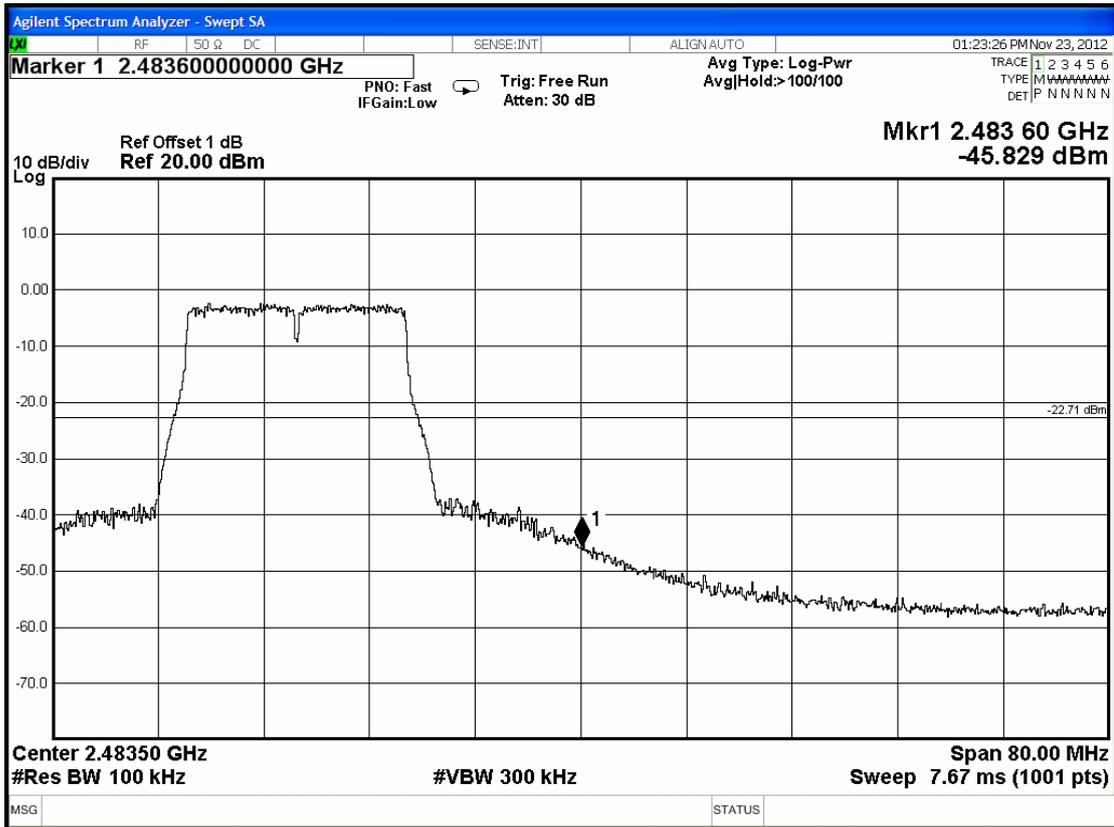
### 802.11g Below Band edge



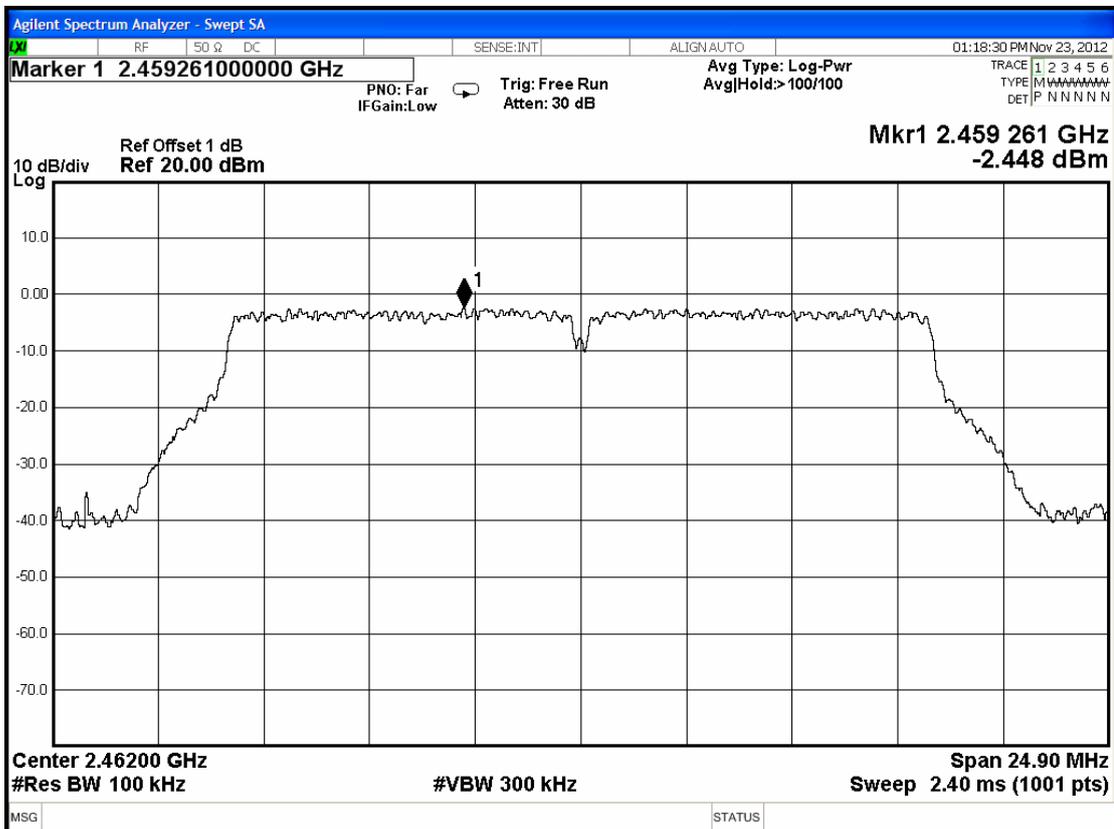
### Reference Level



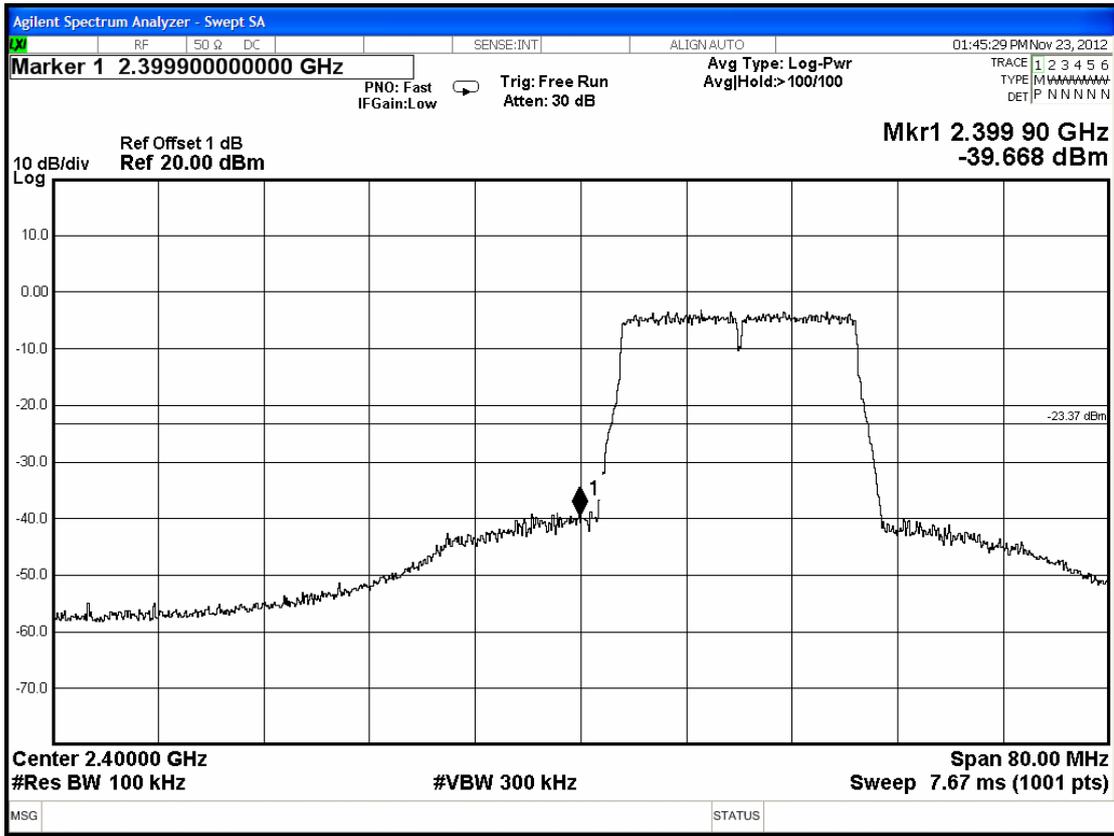
### 802.11g Upper Band edge



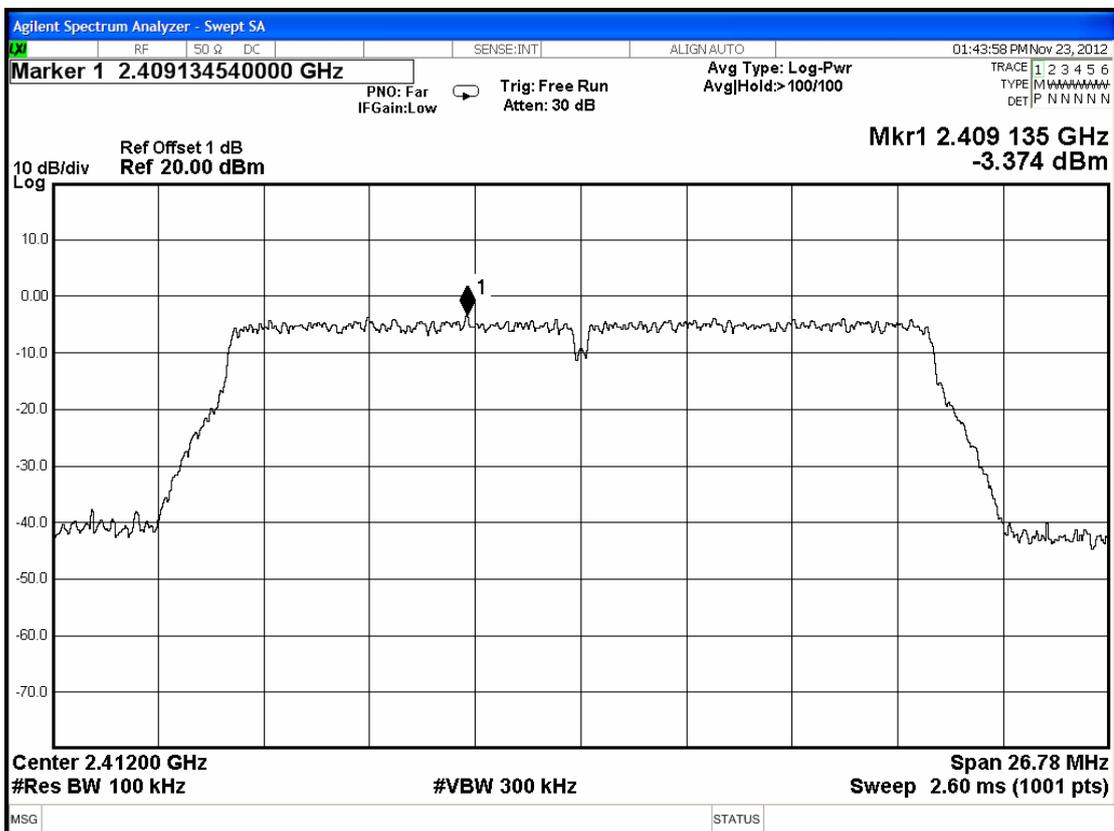
### Reference Level



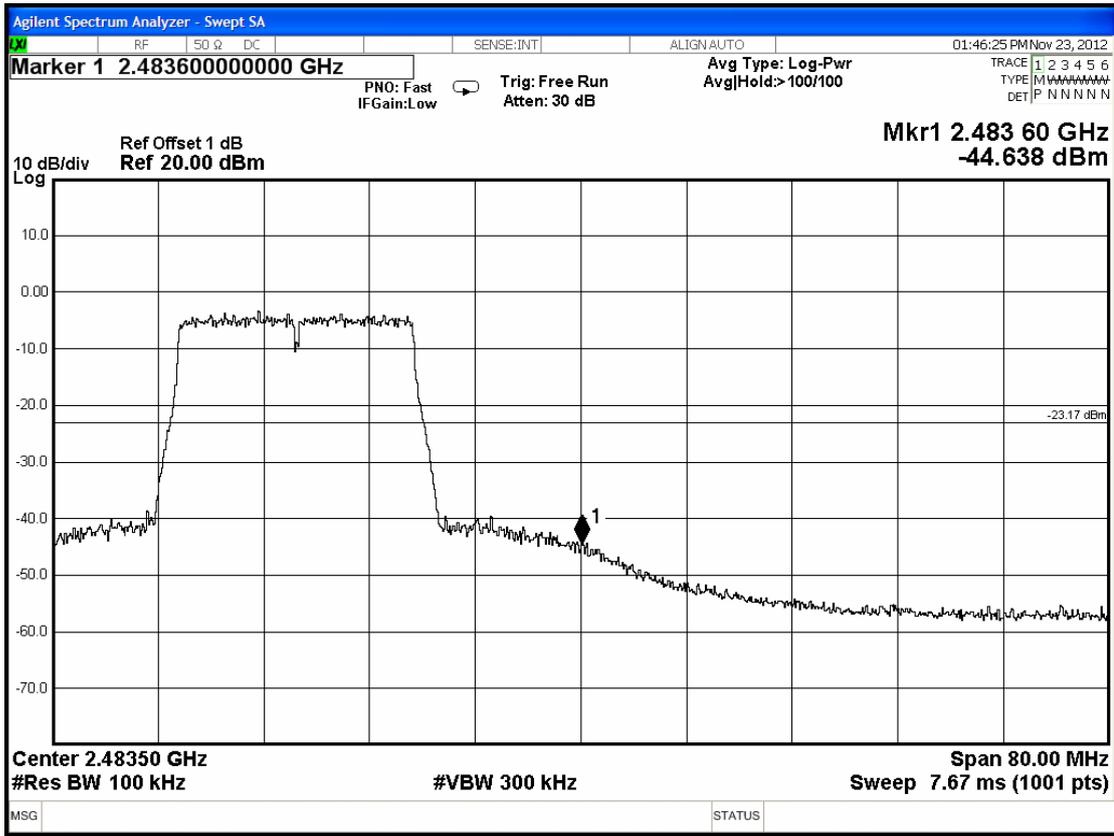
### 802.11n-HT20 Below Band edge



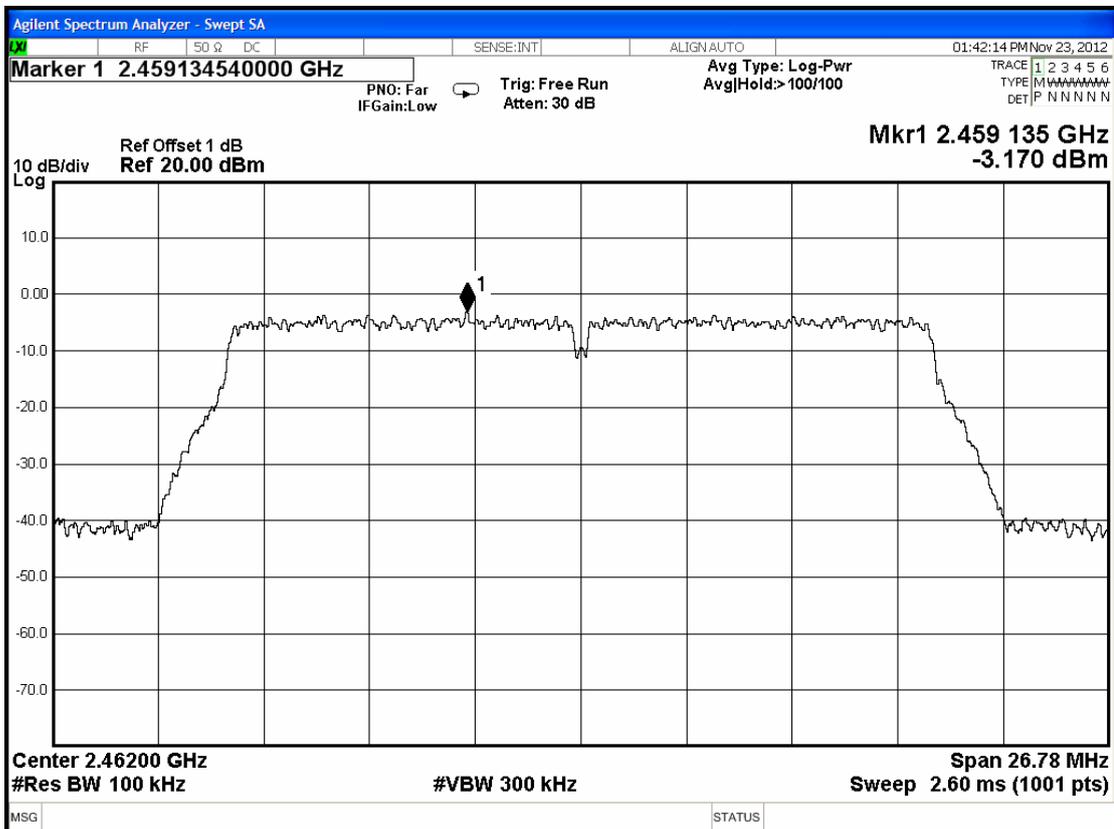
### Reference Level



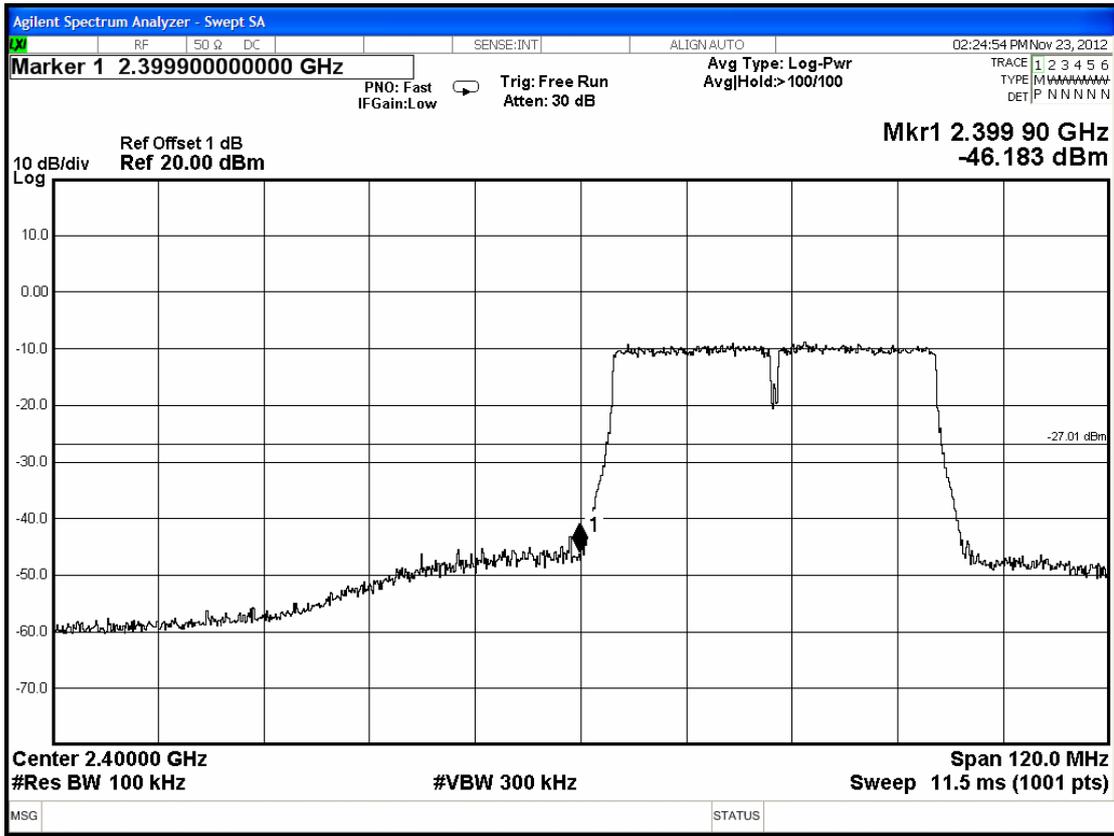
### 802.11n-HT20 Upper Band edge



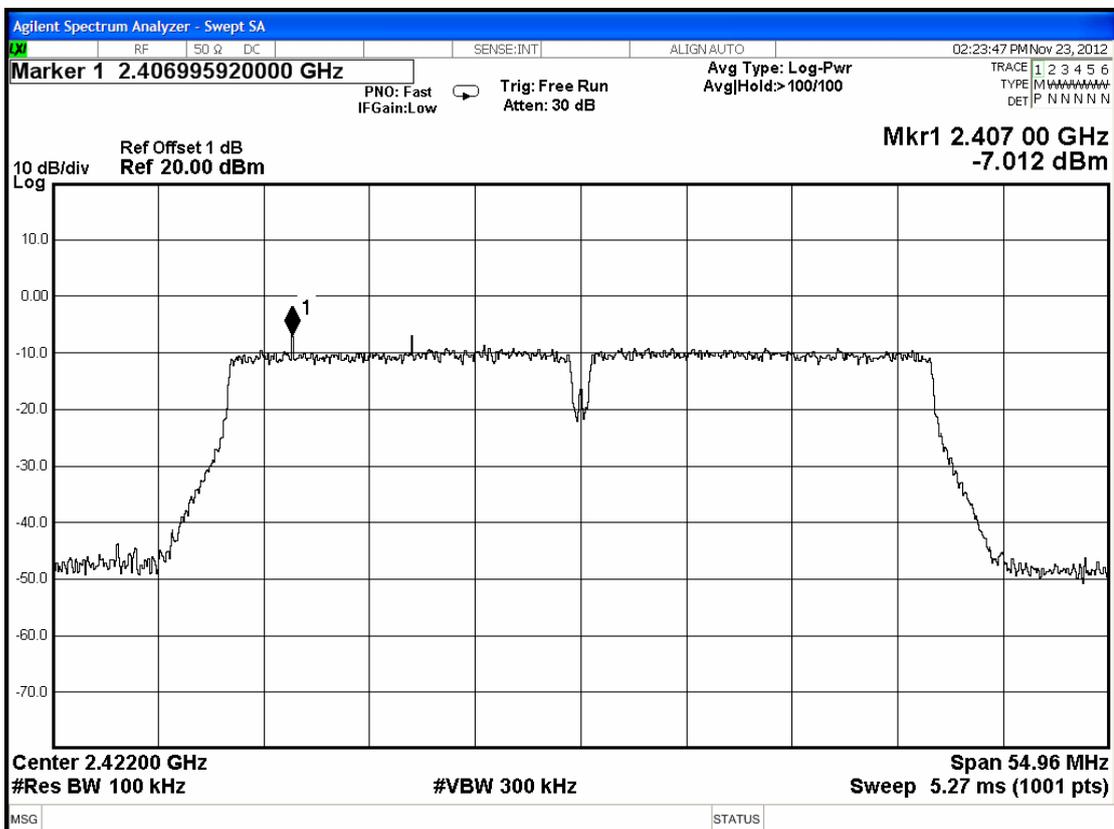
### Reference Level



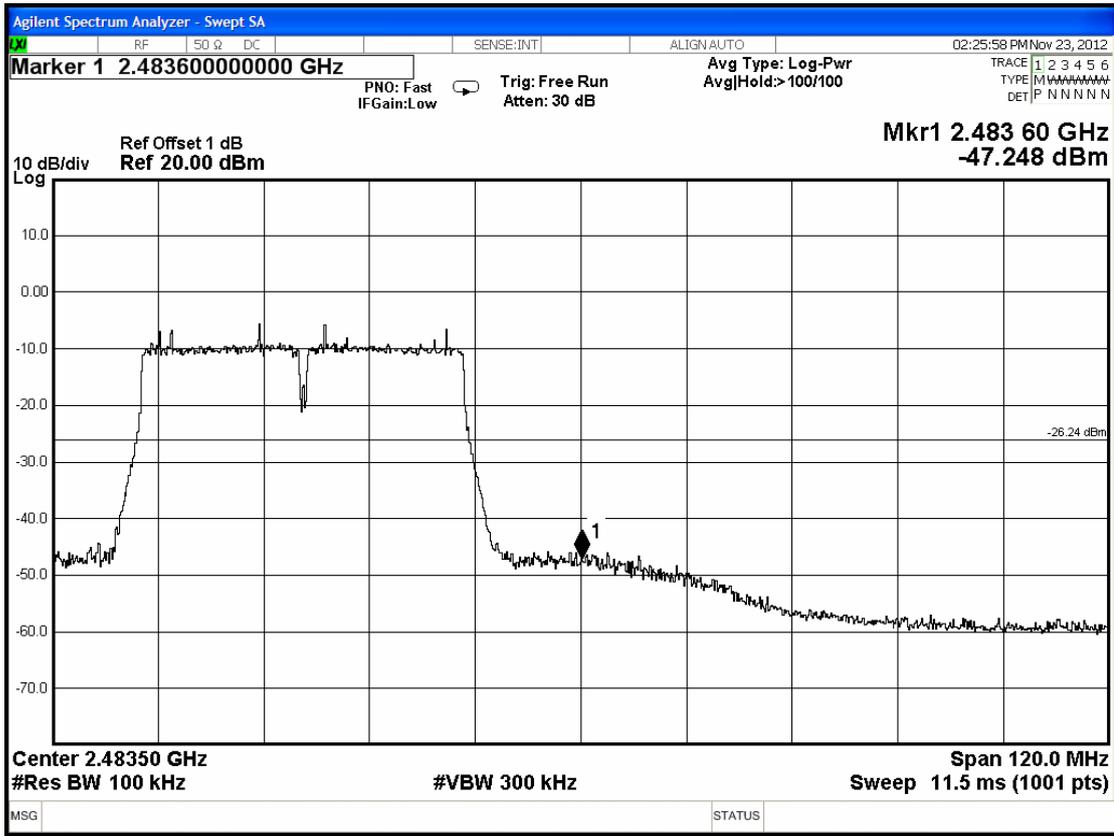
### 802.11n-HT40 Below Band edge



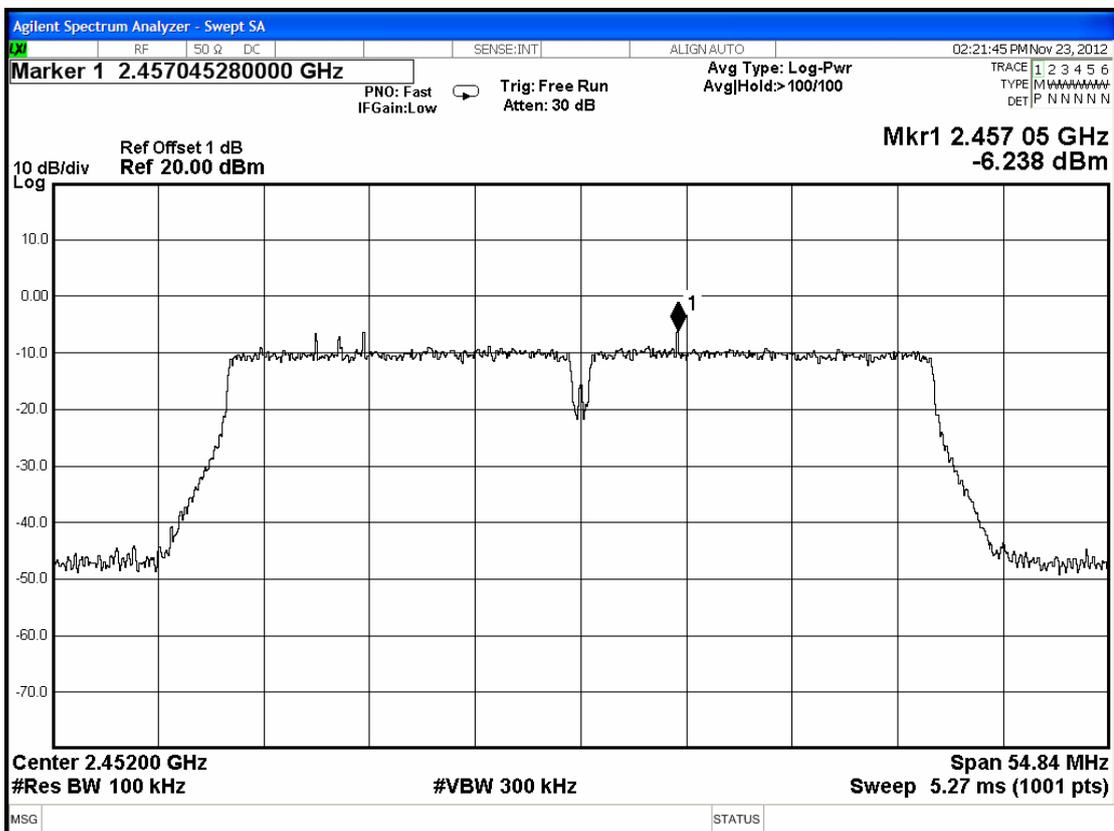
### Reference Level



### 802.11n-HT40 Upper Band edge



### Reference Level



## 8. POWER SPECTRAL DENSITY MEASUREMENT

### 8.1. Test Equipment

The following test equipment was used during the power spectral density measurement:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1.	Spectrum Analyzer	Agilent	N9030A-544	US51350140	Oct. 17, 12'	Oct. 16, 13'

### 8.2. Block Diagram of Test Setup

The same as section.4.2.

### 8.3. Specification Limits [§15.247(d), RSS-210 §A8.2 (b)]

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

### 8.4. Operating Condition of EUT

The test program “Lab Tool” was used to enable the EUT to transmit data at different channel frequency individually.

### 8.5. Test Procedure

The transmitter output was connected to the spectrum analyzer. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3kHz RBW and  $\geq 30$ kHz VBW, set sweep time = Auto.

The measurement guideline was according to KDB 558074 D01 V02.

## 8.6. Test Results

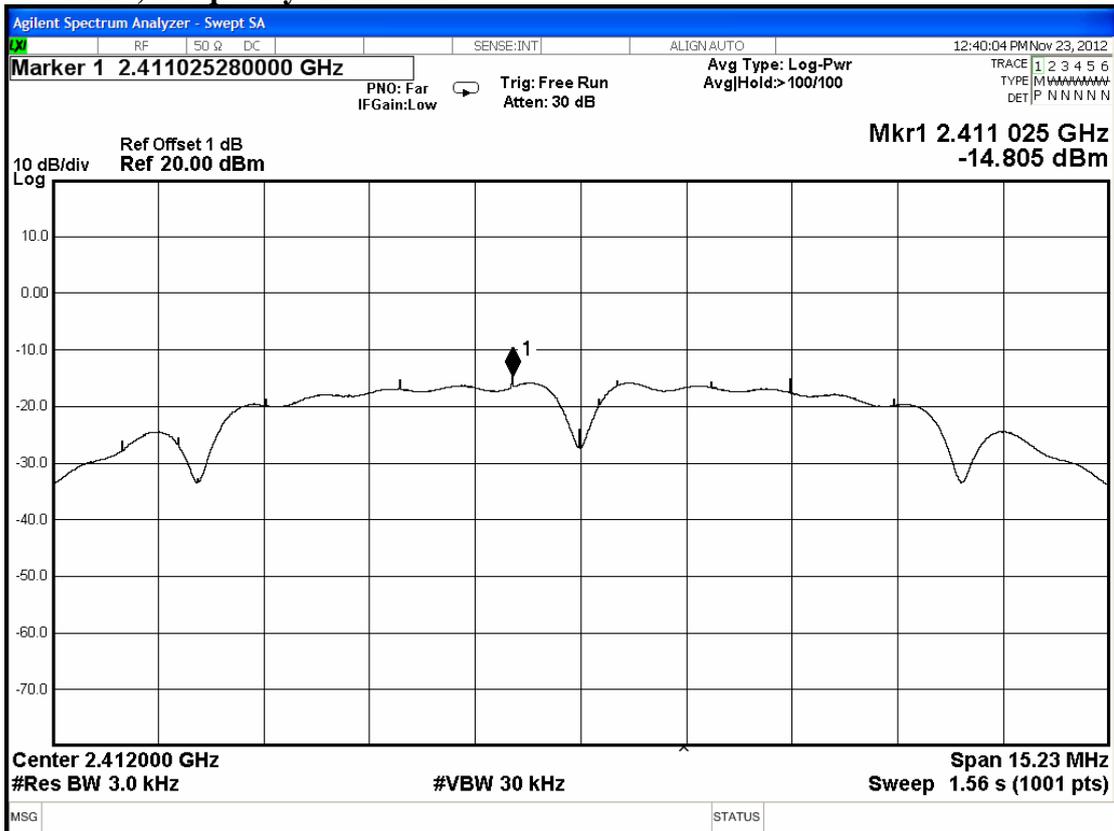
**PASSED.** All the test results are attached in next pages.

(Test Date : Nov. 23, 2012 Temperature : 25°C Humidity : 60%)

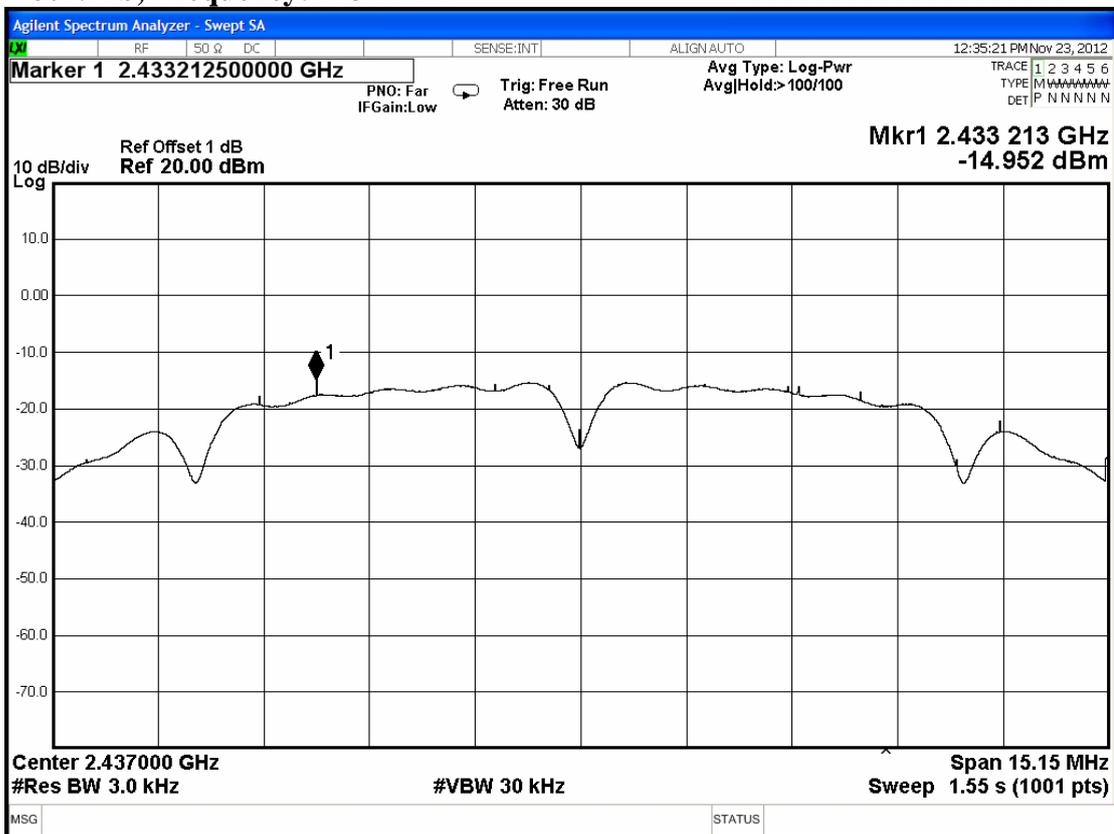
### 8.6.1. For 802.11b/802.11g/802.11a

Mode	Type of Network	Channel	Frequency	Power Spectral Density (dBm)	Limit (dBm)
1.	802.11b	CH 1	2412MHz	<b>-14.805</b>	8
2.		CH 6	2437MHz	<b>-14.952</b>	8
3.		CH 11	2462MHz	<b>-14.618</b>	8
4.	802.11g	CH 1	2412MHz	<b>-14.392</b>	8
5.		CH 6	2437MHz	<b>-14.210</b>	8
6.		CH 11	2462MHz	<b>-14.600</b>	8
10.	802.11n-HT20	CH 1	2412MHz	<b>-15.097</b>	8
11.		CH 6	2437MHz	<b>-14.588</b>	8
12.		CH 11	2462MHz	<b>-13.791</b>	8
16.	802.11n-HT40	CH 3	2422MHz	<b>-19.964</b>	8
17.		CH 6	2437MHz	<b>-19.880</b>	8
18.		CH 9	2452MHz	<b>-19.928</b>	8

### 802.11b, Frequency: 2412MHz



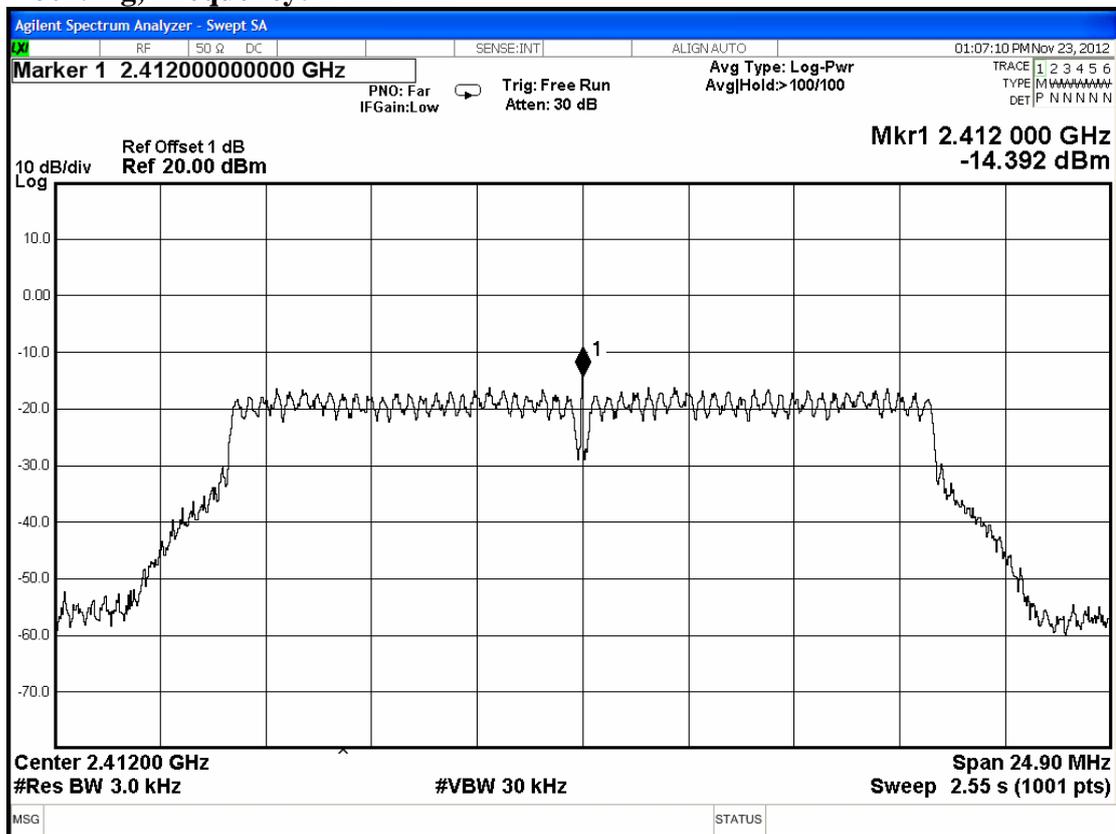
### 802.11b, Frequency: 2437MHz



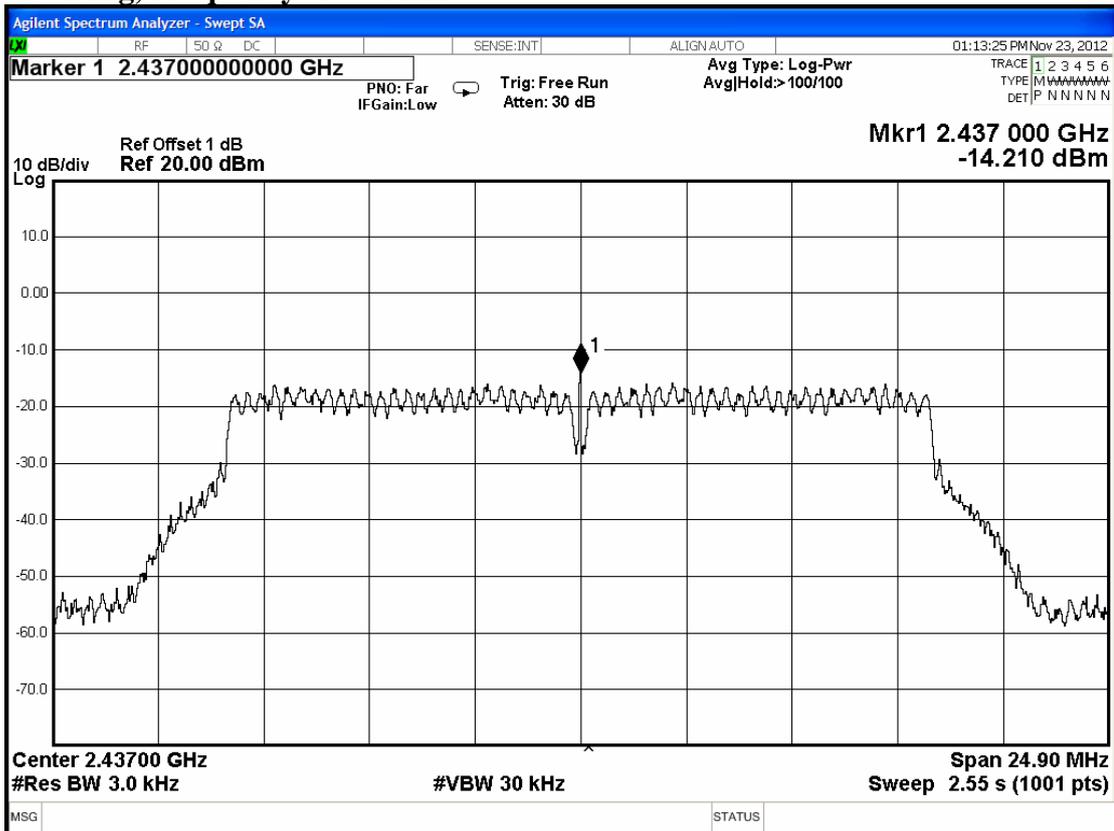
### 802.11b, Frequency: 2462MHz



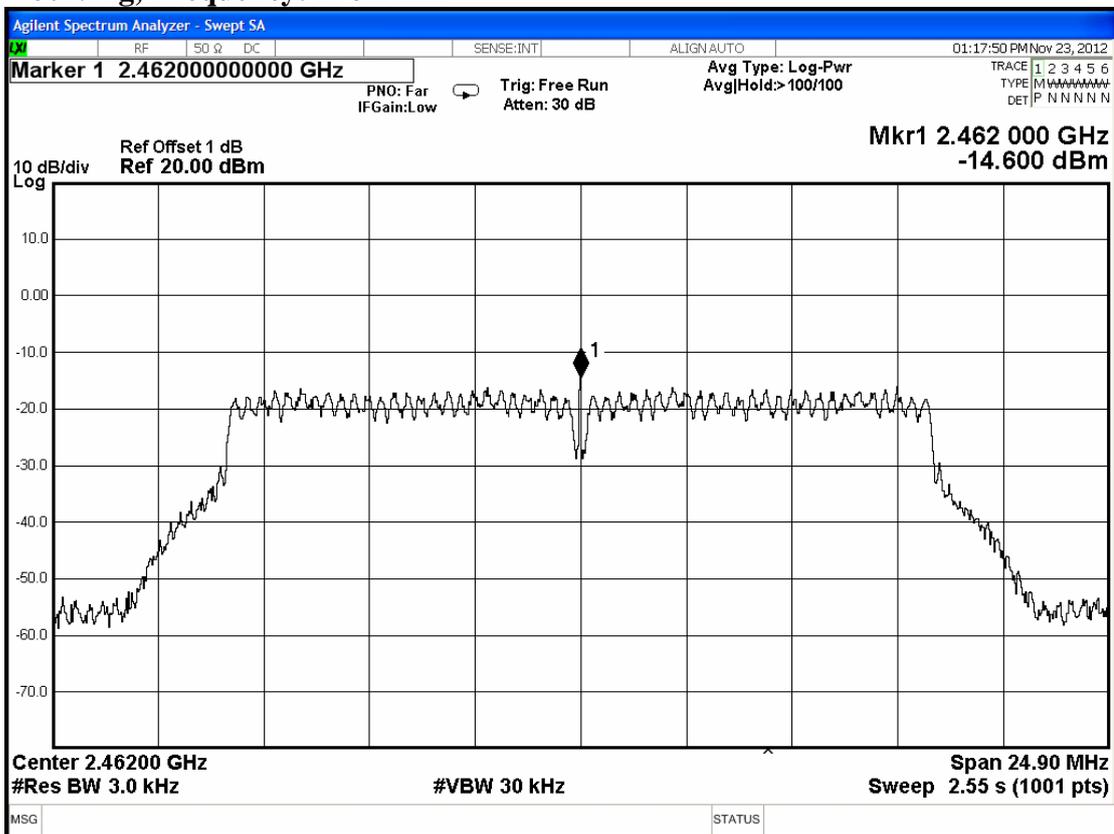
### 802.11g, Frequency: 2412MHz



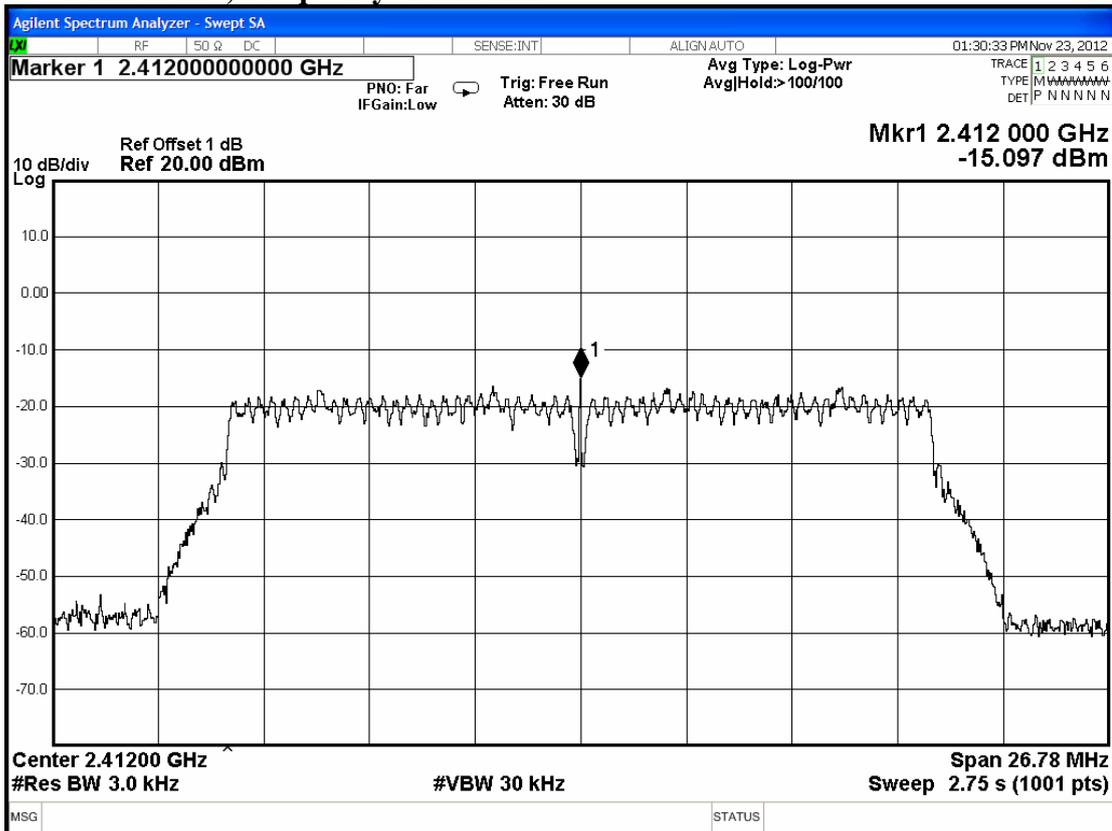
### 802.11g, Frequency: 2437MHz



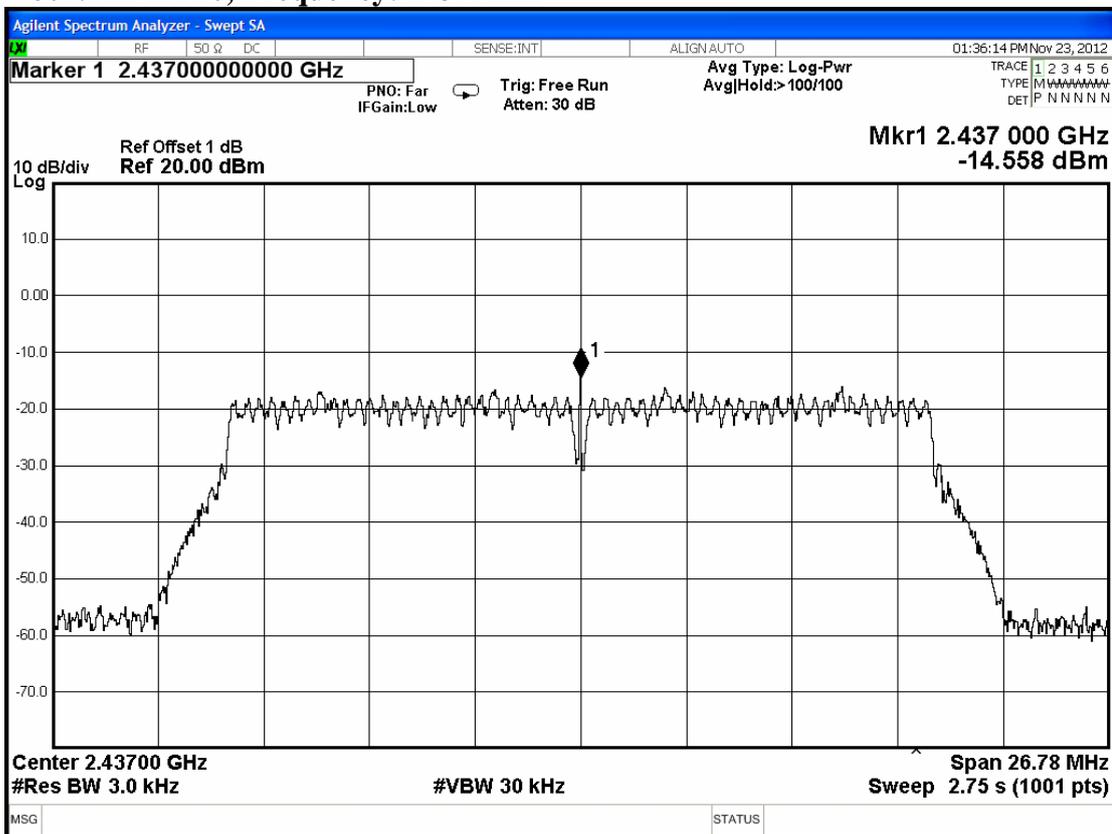
### 802.11g, Frequency: 2462MHz



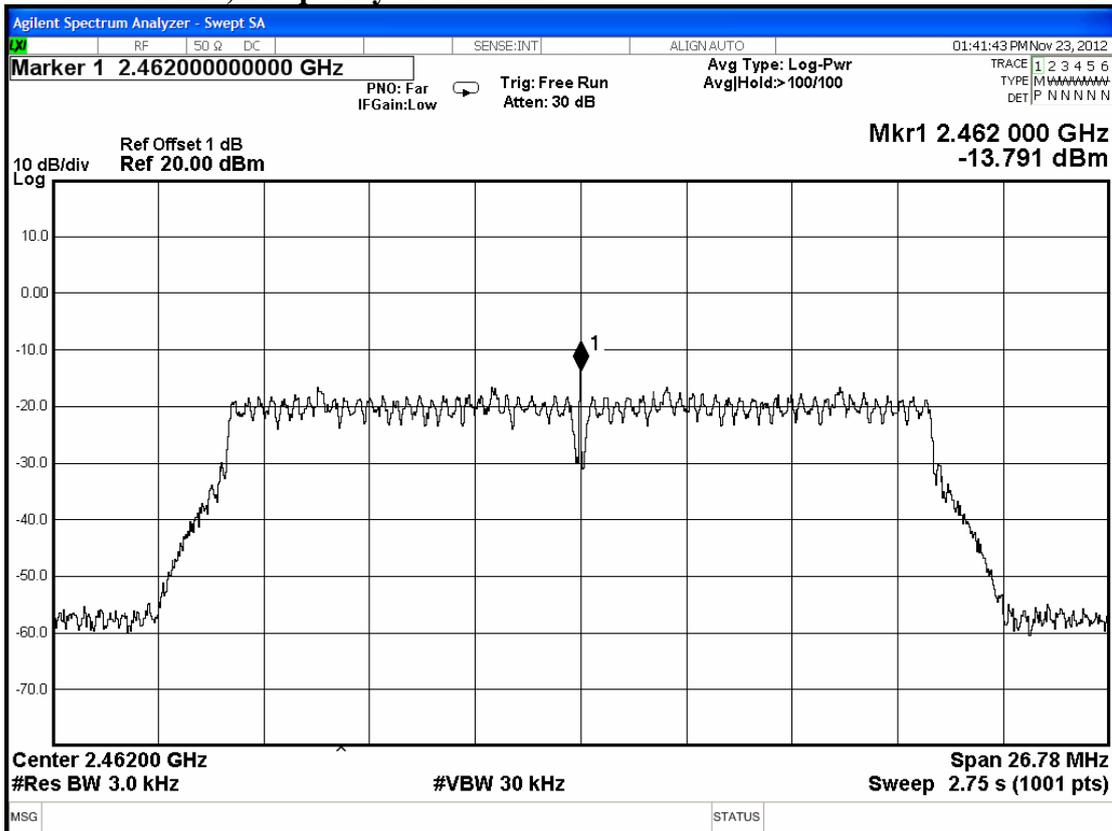
### 802.11n-HT20, Frequency: 2412MHz



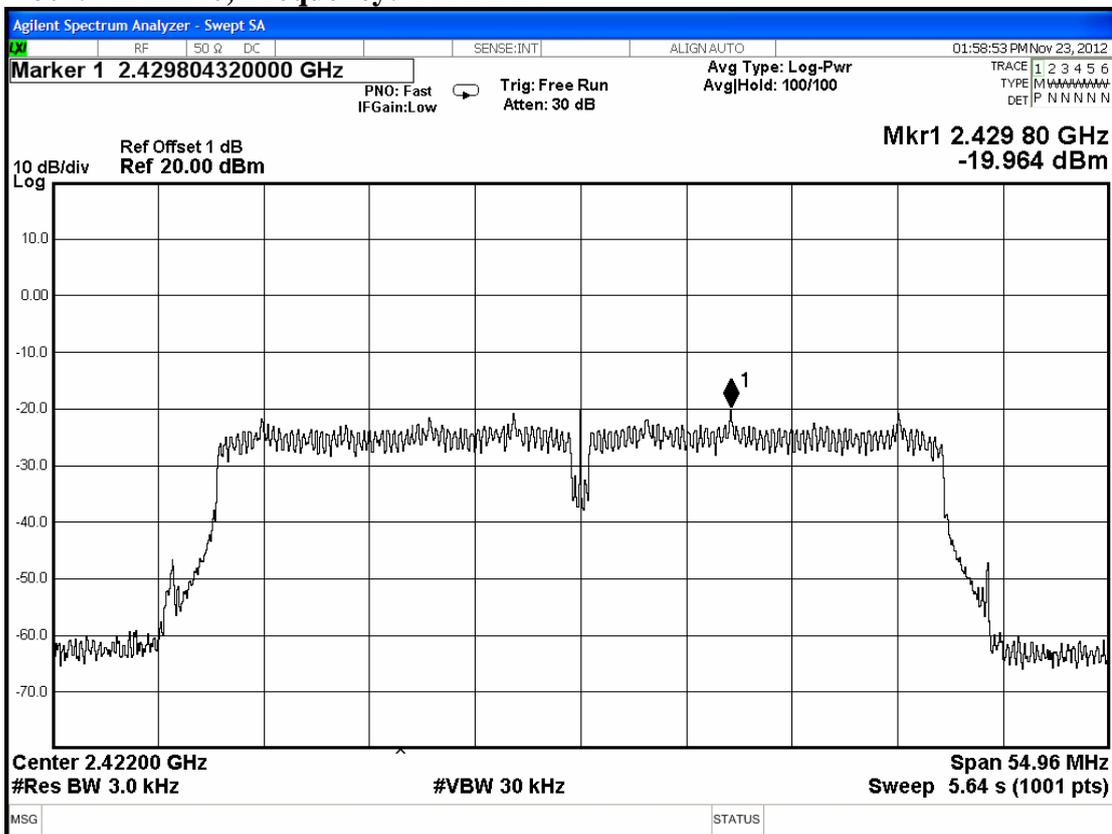
### 802.11n-HT20, Frequency: 2437MHz



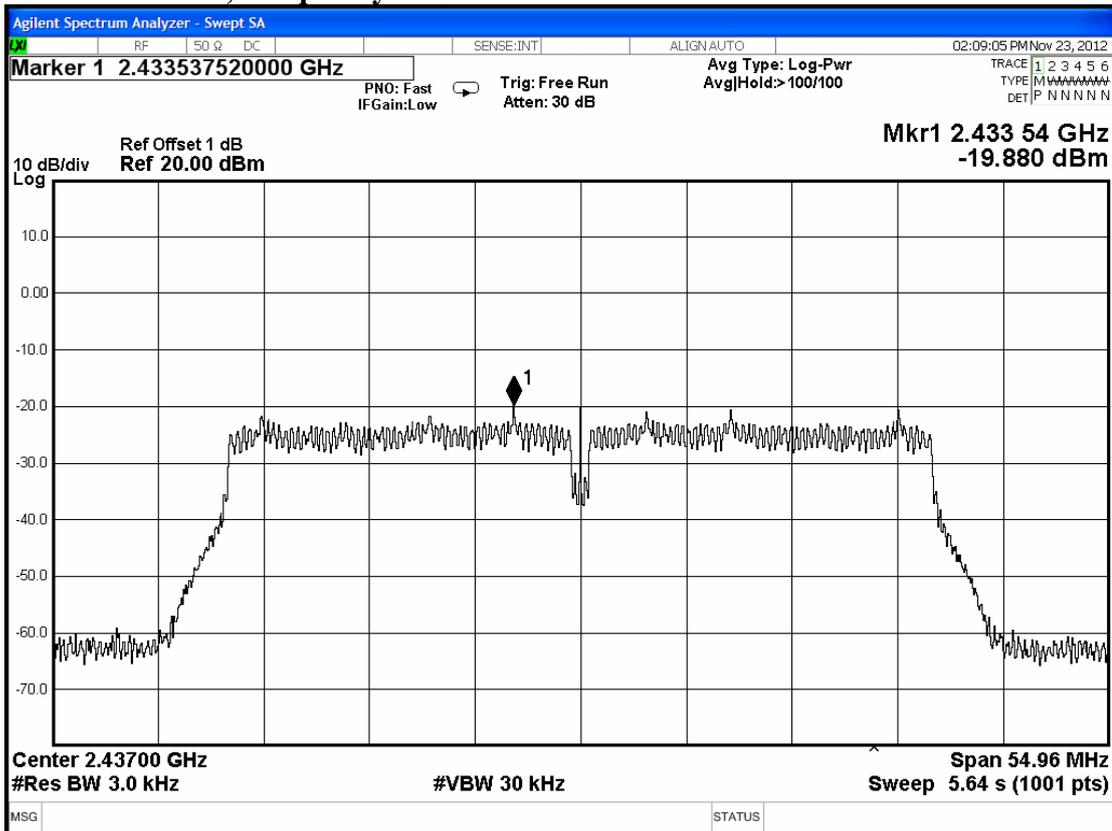
### 802.11n-HT20, Frequency: 2462MHz



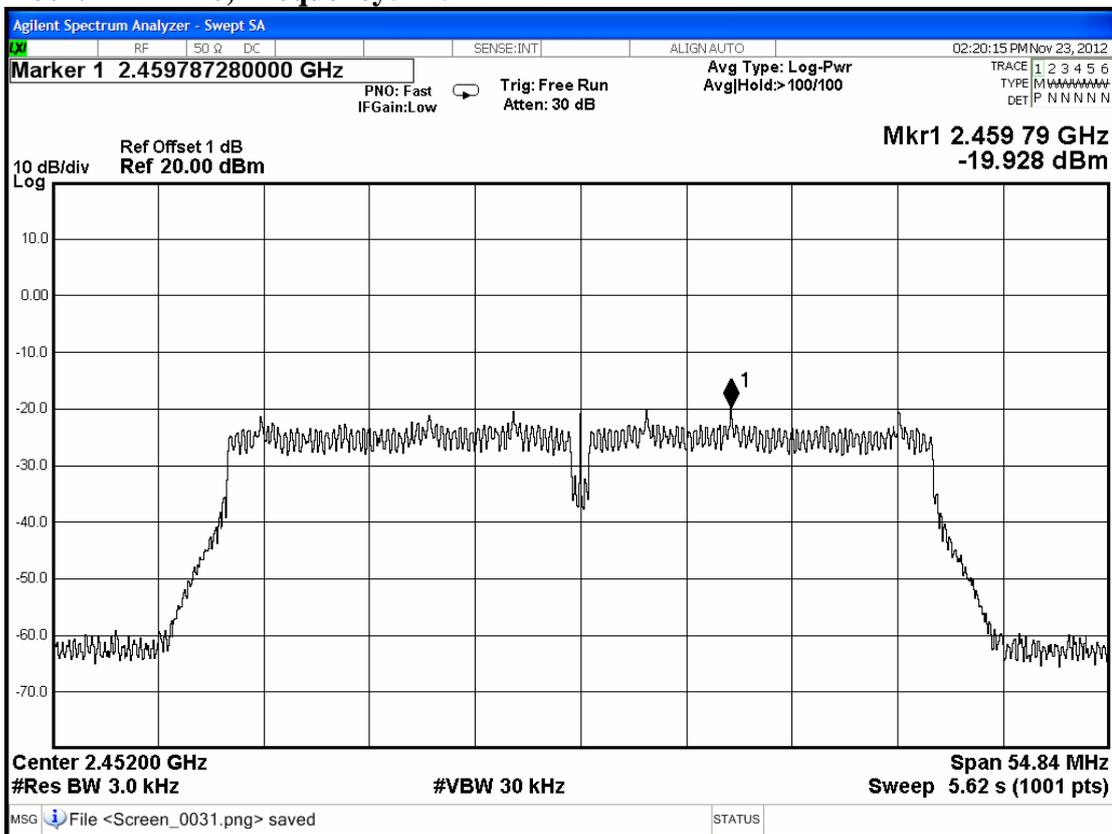
### 802.11n-HT40, Frequency: 2422MHz



### 802.11n-HT40, Frequency: 2437MHz



### 802.11n-HT40, Frequency: 2452MHz



## **9. DEVIATION TO TEST SPECIFICATIONS**

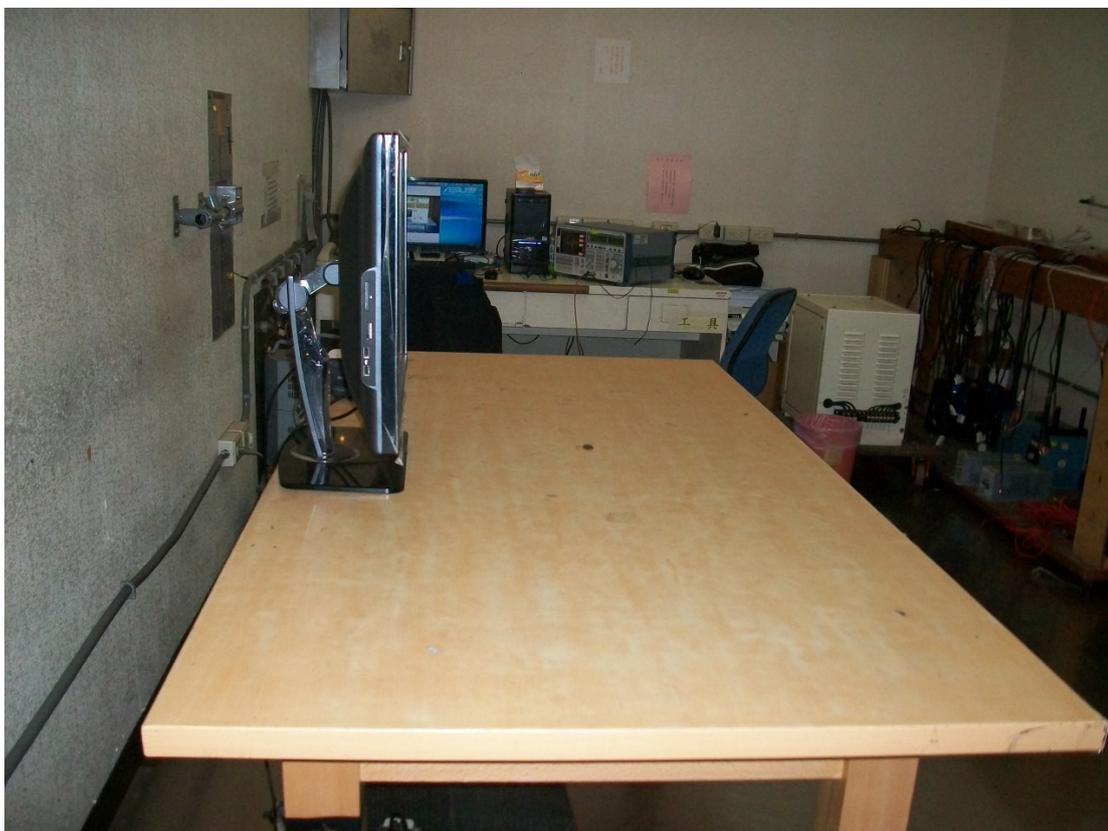
**【NONE】**

## 10. PHOTOGRAPHS

### 10.1. Photos of Conducted Disturbance Measurement



FRONT VIEW OF CONDUCTED MEASUREMENT



BACK VIEW OF CONDUCTED MEASUREMENT

## 10.2. Photos of Radiated Measurement at Semi-Anechoic Chamber

### 10.2.1. Frequency Below 1GHz



### 10.2.2. Frequency Above 1GHz



### 10.3. Photo of Section RF Conducted Measurement

