

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

Shenyang Tongfang Multimedia Technology Co., Limited

LED TV

Model Number: WA43FBN1001

FCC ID: 2ACWIWA43FBN10

Prepared for : Shenyang Tongfang Multimedia Technology Co., Limited  
No. 10 Nanping East Road HunNan New District Shenyang,  
LiaoNing Province China

Prepared By : EST Technology Co., Ltd.  
San Tun Management Zone, Houjie Town, Dongguan,  
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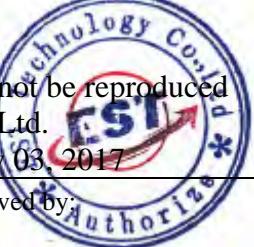
Report Number: ESTE-R1705013  
Date of Test : April 10~April 25, 2017  
Date of Report : May 03, 2017

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## Test Report Verification

<b>Applicant:</b>	Shenyang Tongfang Multimedia Technology Co., Limited No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province China		
<b>Manufacturer</b>	Shenyang Tongfang Multimedia Technology Co., Limited No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province China		
<b>Factory</b>	Shenyang Tongfang Multimedia Technology Co., Limited No. 10 Nanping East Road HunNan New District Shenyang,LiaoNing Province China		
<b>E.U.T:</b>	LED TV		
<b>Model Number:</b>	WA43FBN1001		
<b>Power Supply:</b>	AC 100~240V;50/60Hz		
<b>Test Voltage:</b>	AC 120V/60Hz; AC 240V/60Hz		
<b>Trade Name:</b>	Seiki,THTF,WESTINGG HOUSE,ELEMENT	Serial No.:	-----
<b>Date of Receipt:</b>	April 10, 2017	Date of Test:	April 10~ April 25, 2017
<b>Test Specification:</b>	FCC Rules and Regulations Part 15 Subpart C:2016 ANSI C63.10:2013		
<b>Test Result:</b>	<p>The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p>		
	Date: May 03, 2017		
Prepared by:	Tested by:	Approved by:	
			
Ada / Assistant	Tony.Tang/ Engineer	IcemanHu	
<b>Other Aspects:</b> None.			
Abbreviations: OK/P=passed      fail/F=failed      n.a/N=not applicable      E.U.T=equipment under tested			
<i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i>			

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Product Name	:	LED TV
Model Number	:	WA43FBN1001
Modulation	:	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT40 MHz mode: OFDM (BPSK/QPSK/16QAM/64QAM)
Operation Frequency	:	IEEE 802.11b/g: 2412 ~ 2462 MHz IEEE 802.11n HT20 : 2412 ~ 2462 MHz IEEE 802.11n HT40 : 2422 ~ 2452 MHz
Number of channel	:	IEEE 802.11b: 11 Channels IEEE 802.11g: 11 Channels IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Antenna and Gain	:	PCB Antenna with 2dBi gain (Max)

## 2. SUMMARY OF TEST

### 2.1. Summary of test result

Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2013	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10:2013 KDB 558074	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Conducted spurious emissions	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: 558074 D01 DTS Meas Guidance v03r05		

## 2.2. Test Facilities

EMC Lab : Certificated by CNAL, CHINA  
Registration No.: L5288  
Date of registration: December 07, 2015

Certificated by FCC, USA  
Registration No.: 989591  
Date of registration: November 15, 2016

Certificated by Industry Canada  
Registration No.: 9405A-1  
Date of registration: December 30, 2015

Certificated by VCCI, Japan  
Registration No.: R-3663 & C-4103  
Date of registration: July 25, 2011

Certificated by TUV Rheinland, Germany  
Registration No.: UA 50195514 0001  
Date of registration: January 07, 2011

Certificated by TUV/PS, Shenzhen  
Registration No.: SCN1017  
Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO  
Registration No.: 2011-RTL-L1-18  
Date of registration: April 28, 2011

Certificated by Siemic, Inc.  
Registration No.: SLCN021  
Date of registration: November 8, 2011

Certificated by Nemko, Hong Kong  
Registration No.: 175193  
Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

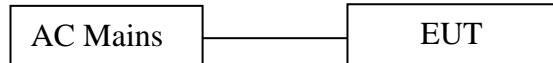
Site Location : San Tun Management Zone, Houjie Town, Dongguan, Guangdong, China

### 2.3. Assistant equipment used for test

#### 2.3.1. N/A

### 2.4. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground. EUT was set into Wifi test mode by software before test.



(EUT: LED TV)

## 2.5. Test mode

A special test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Test mode	Lower channel	Center channel	Upper channel
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 Transmitting	2412MHz	2442MHz	2462MHz
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 Receiving	2412MHz	2442MHz	2462MHz
IEEE 802.11n HT40 Transmitting	2422MHz	2442MHz	2452MHz
IEEE 802.11n HT40 Receiving	2422MHz	2442MHz	2452MHz

## 2.6. Channel List for wifi

IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	6	2437	11	2462
2	2417	7	2442		
3	2422	8	2447		
4	2427	9	2452		
5	2432	10	2457		
IEEE 802.11n HT40					
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2422	4	2437	7	2452
2	2427	5	2442		
3	2432	6	2447		

## 2.7. Test Equipment

### 2.7.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June,28,16	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	101260	June,28,16	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June,28,16	1 Year

### 2.7.2. For radiated emission test(30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June,28,16	1 Year
Spectrum Analyzer	Agilent	E4411B	MY5014069 7	June,28,16	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June,28,16	1 Year
Signal Amplifier	Agilent	310N	187037	June,28,16	1 Year

### 2.7.3. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZB ECK	BBHA 9120 D	BBHA9120D1 002	June,28,16	1 Year
Signal Amplifier	SCHWARZB ECK	BBV9718	9718-212	June,28,16	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June,28,16	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June,28,16	1 Year

### 3 POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

#### 3.3 Test Procedure

The EUT was placed on a non-metallic table, 10cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

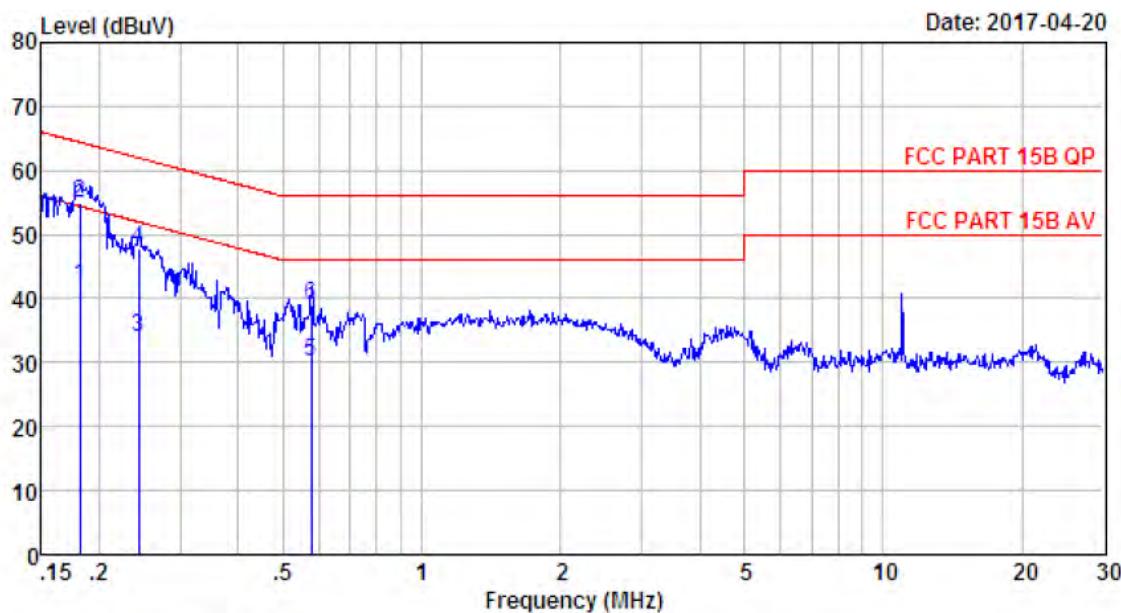
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

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

#### 3.4. Test Result

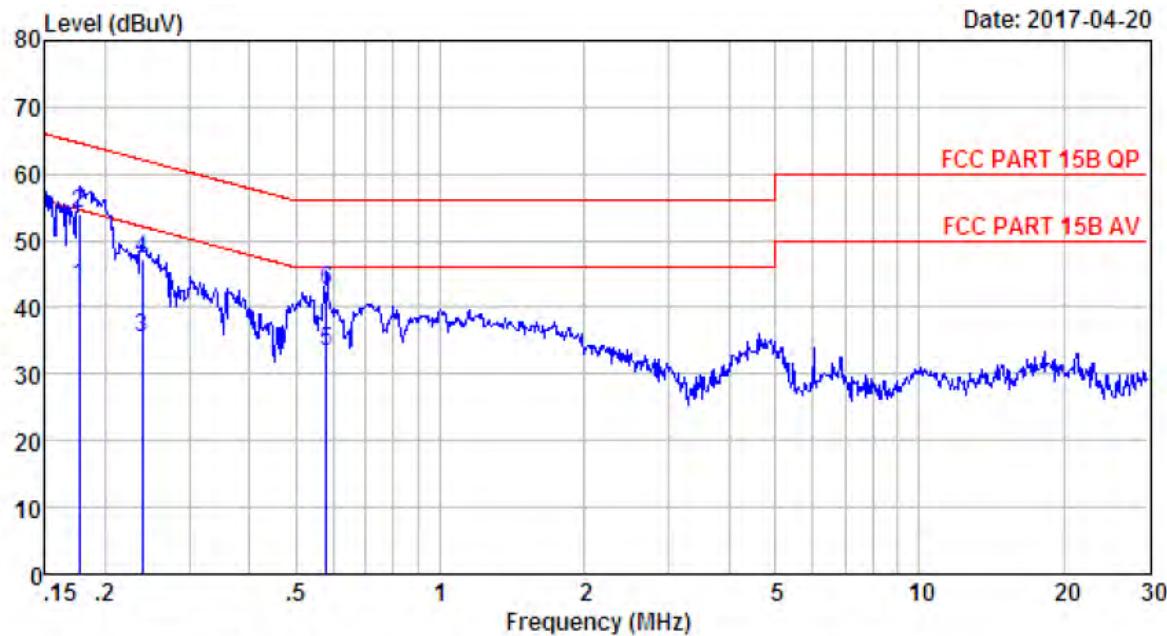
**PASS.** (All emissions not reported below are too low against the prescribed limits.)

### 3.5. Test data



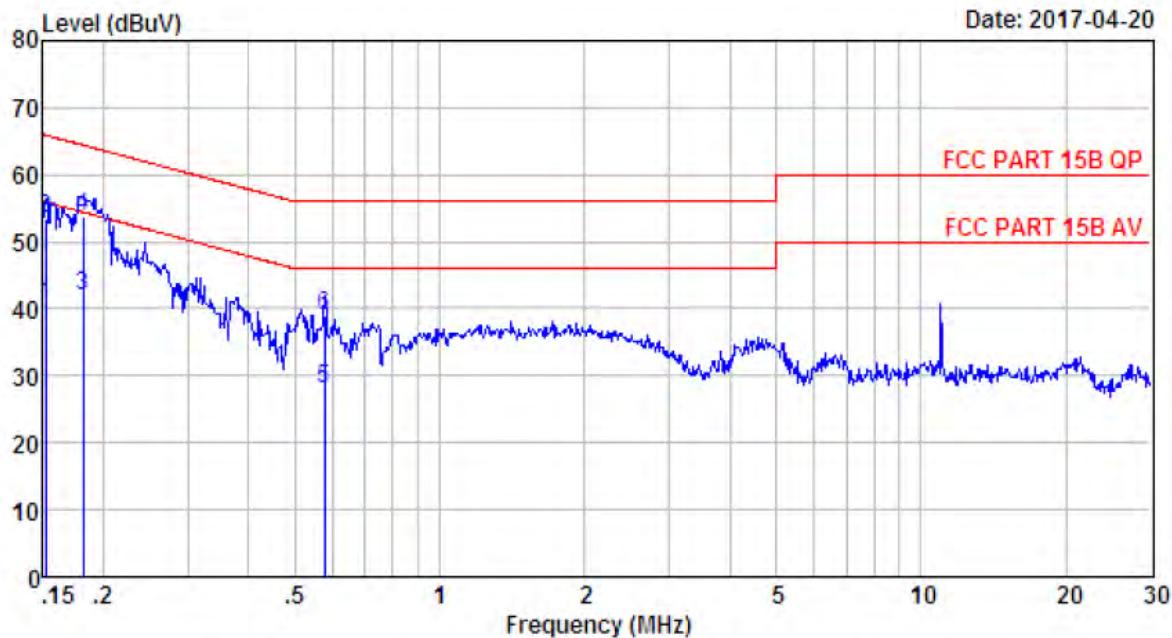
Site no : 844 Shield Room Data no. : 1339  
 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : TX Mode

	LISN	Cable	Emission				
Freq. (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1 0.18	9.55	9.80	22.50	41.85	54.42	12.57	Average
2 0.18	9.55	9.80	35.50	54.85	64.42	9.57	QP
3 0.24	9.60	9.82	14.47	33.89	52.00	18.11	Average
4 0.24	9.60	9.82	28.47	47.89	62.00	14.11	QP
5 0.58	9.61	9.82	10.54	29.97	46.00	16.03	Average
6 0.58	9.61	9.82	19.54	38.97	56.00	17.03	QP



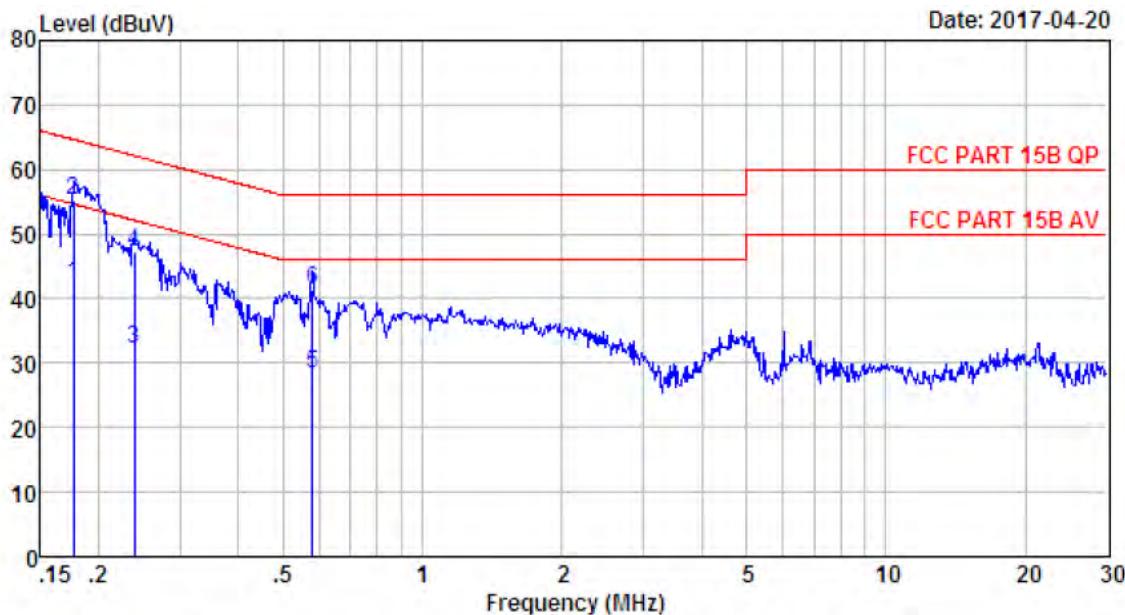
Site no : 844 Shield Room Data no. : 1341  
 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : TX Mode

Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuv)	Limits (dBuv)	Margin (dB)	
1	0.18	9.61	9.80	23.70	43.11	54.64	Average
2	0.18	9.61	9.80	34.70	54.11	64.64	QP
3	0.24	9.61	9.82	15.86	35.29	52.13	Average
4	0.24	9.61	9.82	27.86	47.29	62.13	QP
5	0.58	9.60	9.82	13.99	33.41	46.00	Average
6	0.58	9.60	9.82	22.99	42.41	56.00	QP



Site no : 844 Shield Room Data no. : 1343  
 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 240V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : TX Mode

Freq. (MHz)	LISN	Cable	Emission			Margin (dB)	Remark
	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)		
1 0.15	9.46	9.81	21.24	40.51	55.91	15.40	Average
2 0.15	9.46	9.81	34.24	53.51	65.91	12.40	QP
3 0.18	9.55	9.80	22.50	41.85	54.42	12.57	Average
4 0.18	9.55	9.80	34.50	53.85	64.42	10.57	QP
5 0.58	9.61	9.82	8.54	27.97	46.00	18.03	Average
6 0.58	9.61	9.82	19.54	38.97	56.00	17.03	QP



Site no : 844 Shield Room Data no. : 1345  
 Env. / Ins. : Temp:24.3'C Humi:58% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 240V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : TX Mode

Freq. (MHz)	LISN Factor (dB)	Cable		Emission				Remark
		Loss (dB)	Reading (dBuV)	Level (dBuv)	Limits (dBuv)	Margin (dB)		
1 0.18	9.61	9.80	22.70	42.11	54.64	12.53	Average	
2 0.18	9.61	9.80	35.70	55.11	64.64	9.53	QP	
3 0.24	9.61	9.82	12.86	32.29	52.13	19.84	Average	
4 0.24	9.61	9.82	27.86	47.29	62.13	14.84	QP	
5 0.58	9.60	9.82	8.99	28.41	46.00	17.59	Average	
6 0.58	9.60	9.82	21.99	41.41	56.00	14.59	QP	

## 4 RADIATED EMISSION TEST

### 4.1 Limit

#### 4.1.1 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

Remark : (1) Emission level  $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

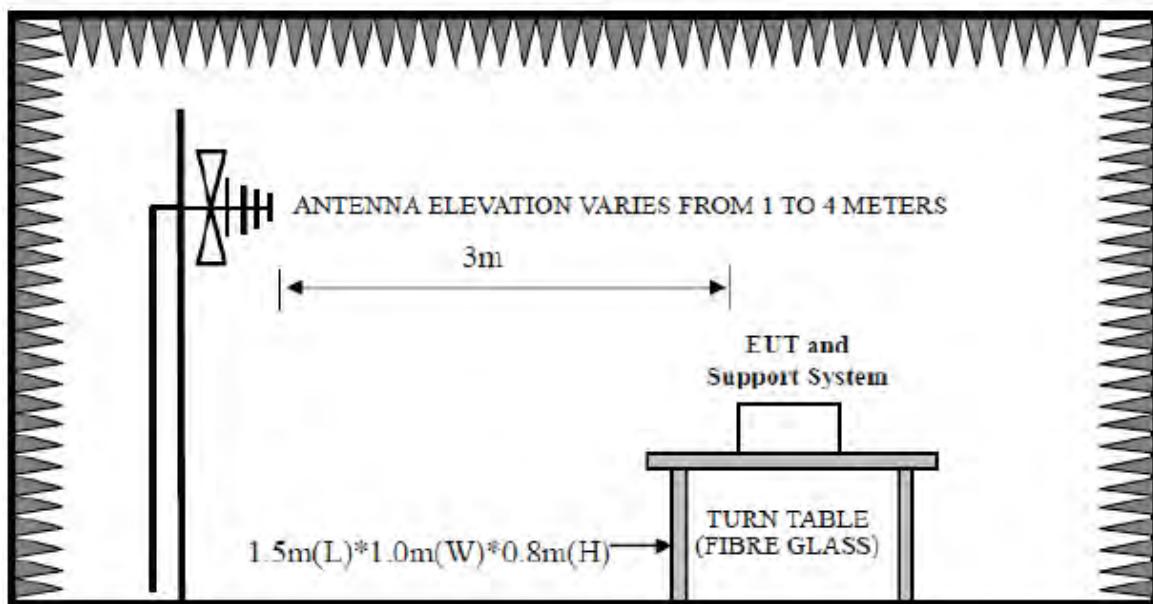
#### 4.1.2 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )

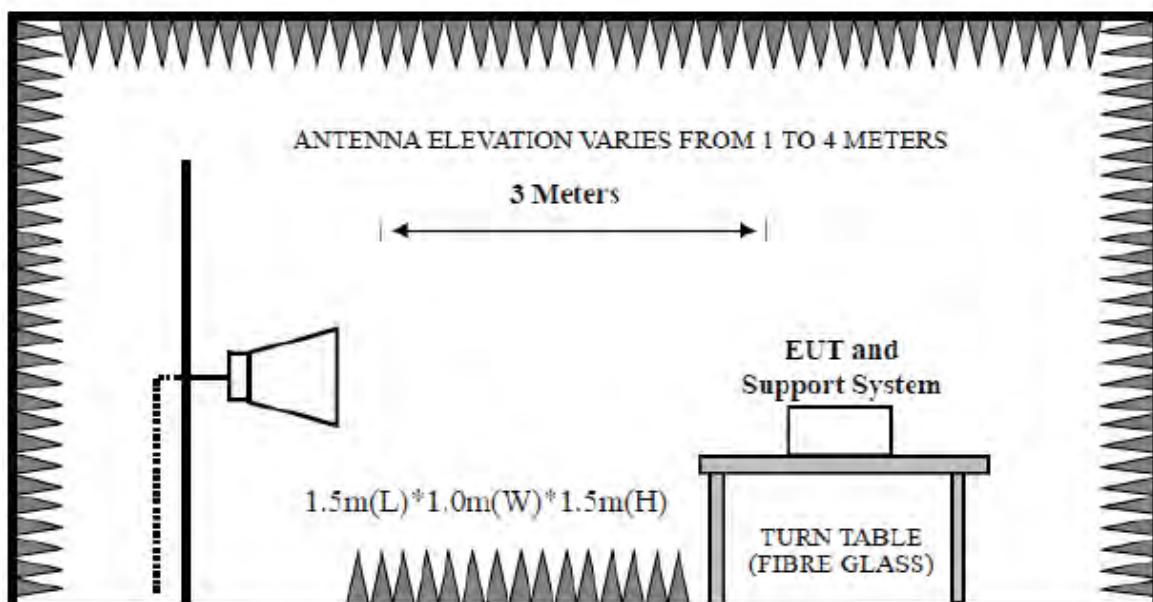
All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 4.2. Block Diagram of Test setup

30~1000MHz



Above 1GHz



#### 4.3. Test Procedure

EUT and its simulators are placed on a turn table, which is 1.5 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10<sup>th</sup> harmonic (25GHz) are checked.

#### 4.4. Test Result

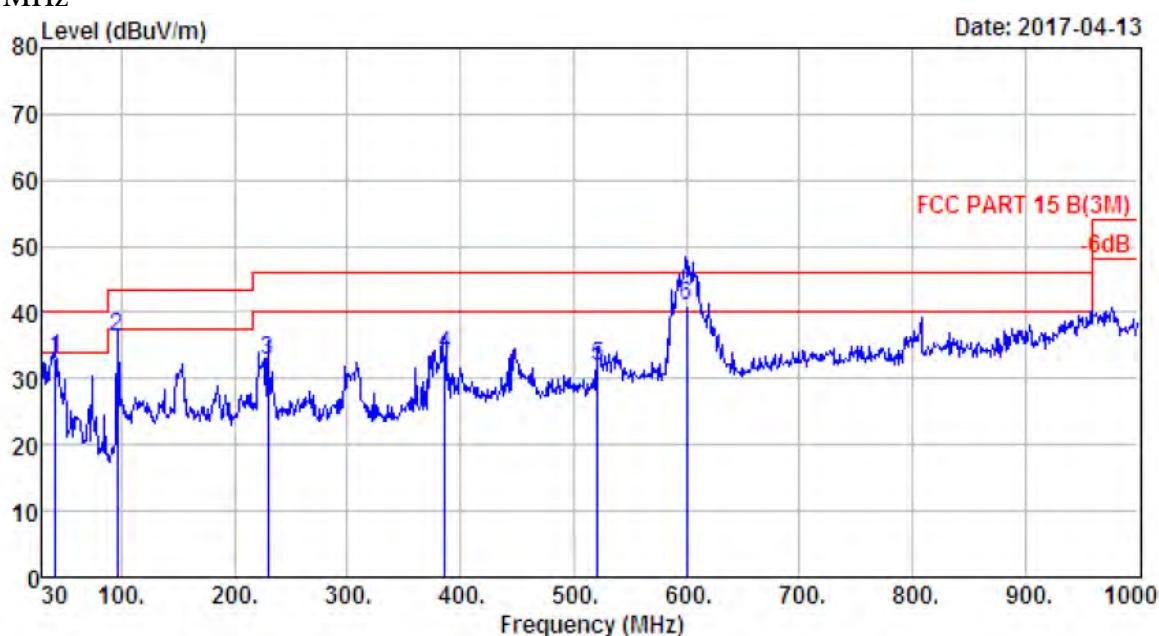
**PASS.**

All the emissions from 30MHz to 25 GHz were comply with 15.209 limits.

- Note: 1、For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- 2、The frequency 2412MHz 、2422MHz、2437MHz、2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

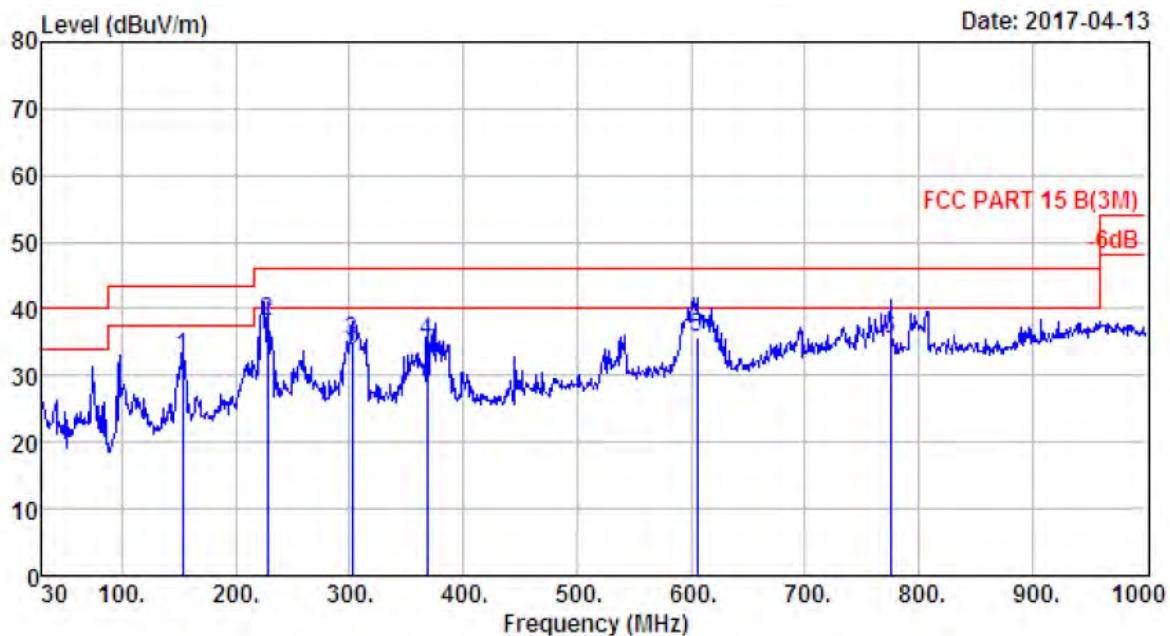
## 4.5. Test Data

30-1000 MHz



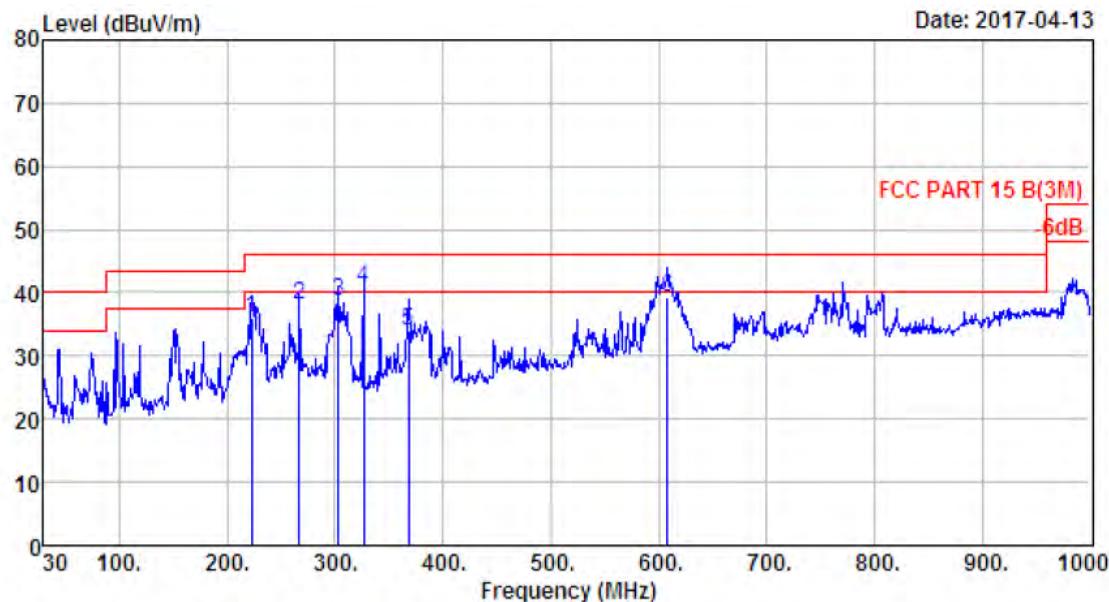
Site no. : 1# 966 Chamber Data no. : 1040  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 41.640	11.75	0.85	20.48	33.08	40.00	6.92	QP
2 95.960	8.92	1.31	25.95	36.18	43.50	7.32	QP
3 229.820	9.44	2.07	21.24	32.75	46.00	13.25	QP
4 385.990	15.36	2.64	15.72	33.72	46.00	12.28	QP
5 521.790	18.01	3.22	10.70	31.93	46.00	14.07	QP
6 600.300	19.60	3.44	18.00	41.04	46.00	4.96	QP



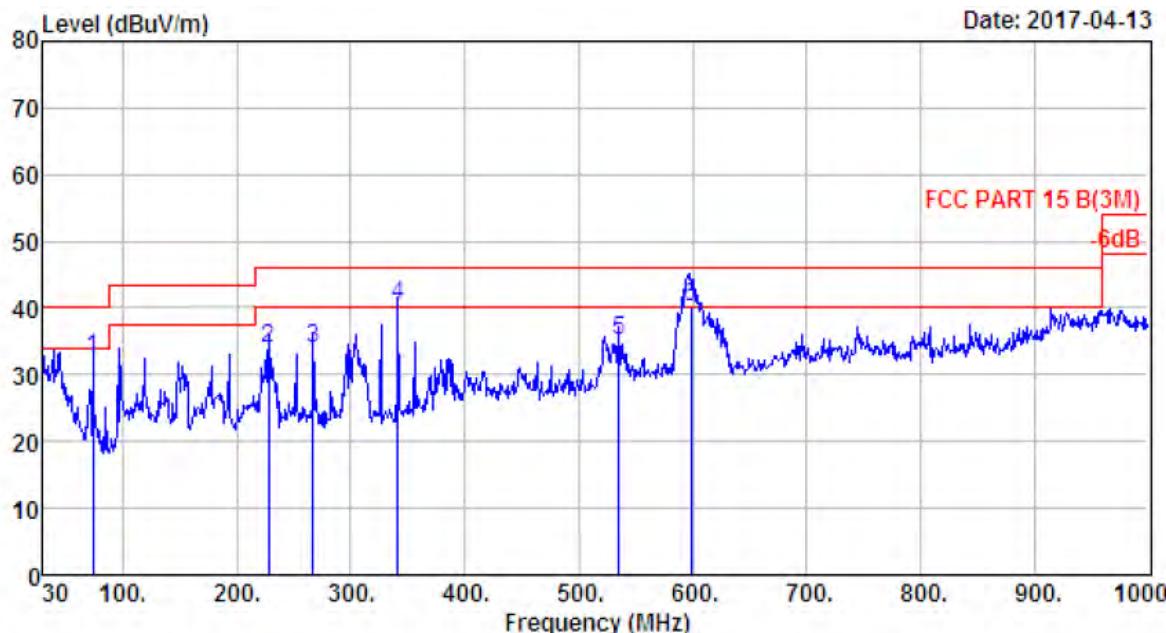
Site no. : 1# 966 Chamber Data no. : 1041  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 153.190	10.75	1.63	20.37	32.75	43.50	10.75	QP
2 227.880	9.46	2.09	26.54	38.09	46.00	7.91	QP
3 302.570	13.06	2.41	19.64	35.11	46.00	10.89	QP
4 368.530	14.80	2.64	17.56	35.00	46.00	11.00	QP
5 605.210	19.74	3.41	12.55	35.70	46.00	10.30	QP
6 774.960	22.02	3.83	9.49	35.34	46.00	10.66	QP



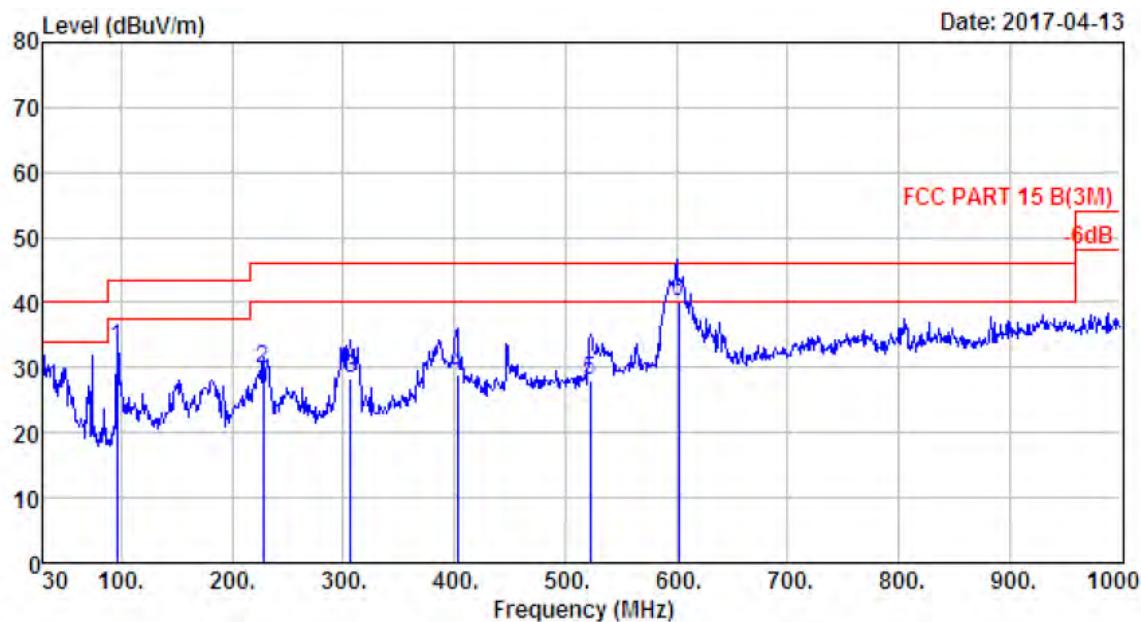
Site no. : 1# 966 Chamber Data no. : 1042  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH6 2437TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 223.030	9.37	2.01	24.51	35.89	46.00	10.11	QP
2 266.680	12.79	2.27	22.93	37.99	46.00	8.01	QP
3 303.540	13.08	2.43	23.28	38.79	46.00	7.21	QP
4 326.820	13.77	2.44	24.67	40.88	46.00	5.12	QP
5 368.530	14.80	2.64	16.41	33.85	46.00	12.15	QP
6 608.120	19.82	3.41	16.01	39.24	46.00	6.76	QP



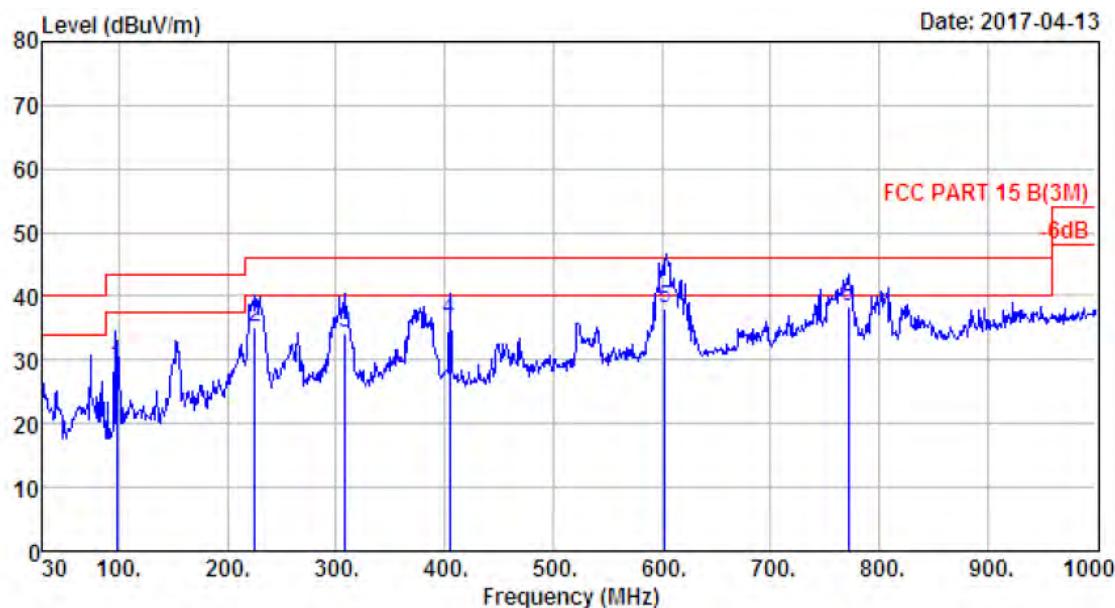
Site no. : 1# 966 Chamber Data no. : 1043  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH6 2437TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 73.650	6.22	1.15	24.99	32.36	40.00	7.64	QP
2 227.880	9.46	2.09	22.44	33.99	46.00	12.01	QP
3 266.680	12.79	2.27	19.00	34.06	46.00	11.94	QP
4 341.370	14.19	2.53	23.77	40.49	46.00	5.51	QP
5 535.370	18.90	3.29	12.87	35.06	46.00	10.94	QP
6 598.400	19.57	3.43	17.00	40.00	46.00	6.00	QP



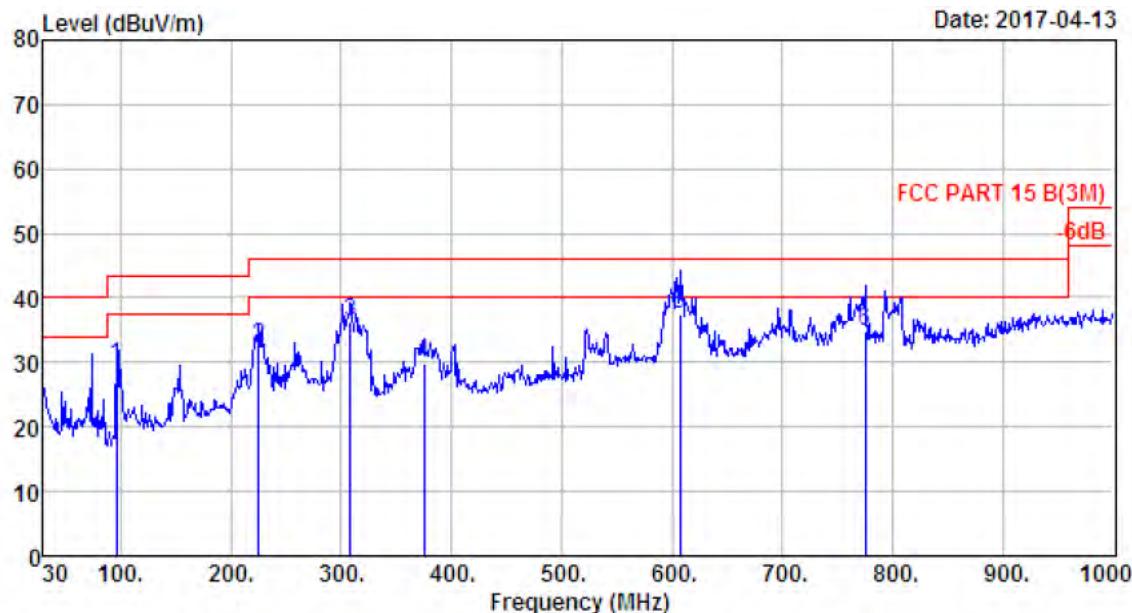
Site no. : 1# 966 Chamber Data no. : 1044  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B (3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH11 2462TX

	ANT	Cable	Emission				Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 95.960	8.92	1.31	22.78	33.01	43.50	10.49	QP
2 227.880	9.46	2.09	18.17	29.72	46.00	16.28	QP
3 306.450	13.13	2.35	12.89	28.37	46.00	17.63	QP
4 402.480	16.12	2.74	10.06	28.92	46.00	17.08	QP
5 522.760	18.04	3.21	6.75	28.00	46.00	18.00	QP
6 602.000	19.66	3.41	17.00	40.07	46.00	5.93	QP



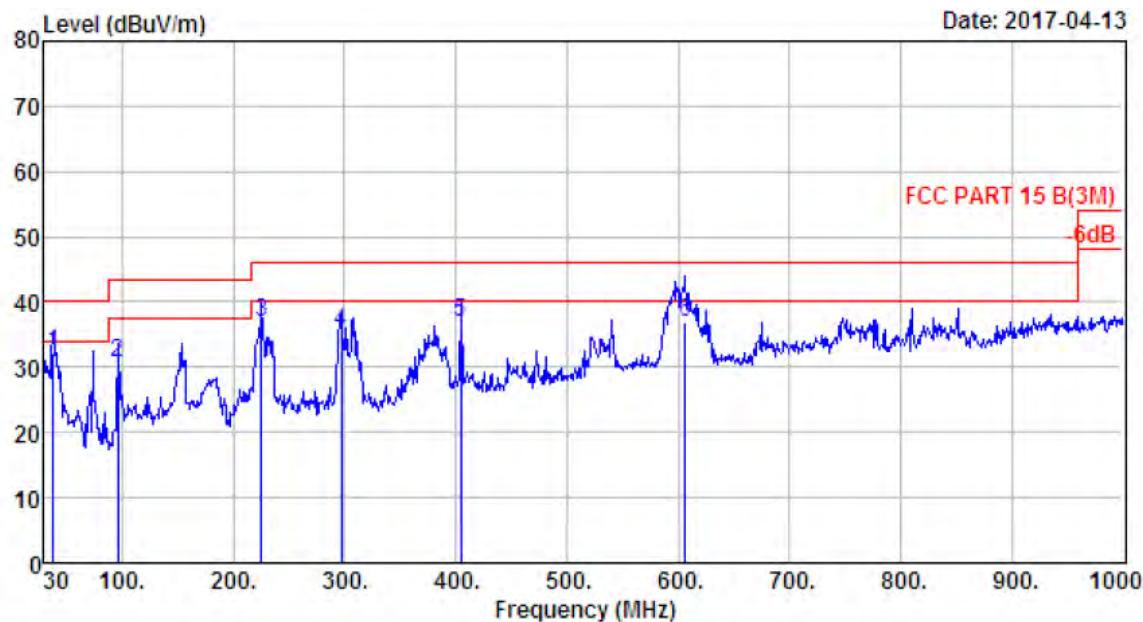
Site no. : 1# 966 Chamber Data no. : 1045  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B (3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH11 2462TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 97.900	9.13	1.33	18.53	28.99	43.50	14.51	QP
2 224.970	9.48	2.00	23.79	35.27	46.00	10.73	QP
3 308.390	13.17	2.44	18.72	34.33	46.00	11.67	QP
4 404.420	16.16	2.65	17.54	36.35	46.00	9.65	QP
5 602.900	19.68	3.41	15.01	38.10	46.00	7.90	QP
6 772.050	22.04	3.89	12.39	38.32	46.00	7.68	QP



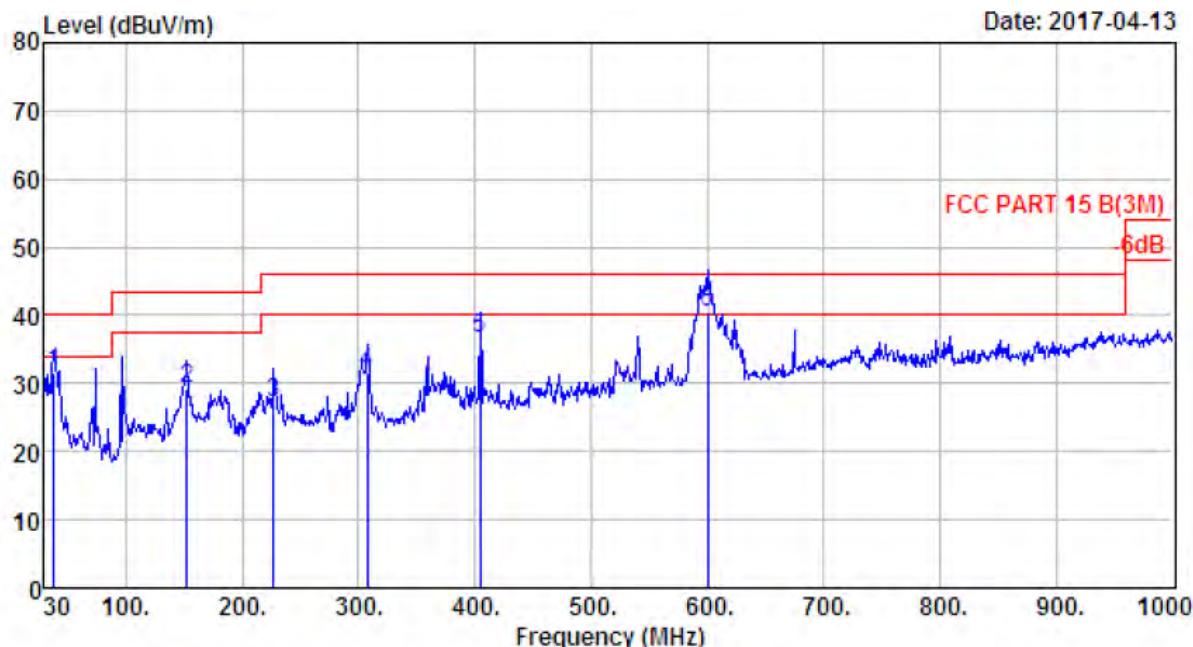
Site no. : 1# 966 Chamber Data no. : 1046  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH1 2412TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 95.960	8.92	1.31	19.30	29.53	43.50	13.97	QP
2 224.970	9.48	2.00	21.09	32.57	46.00	13.43	QP
3 308.390	13.17	2.44	20.63	36.24	46.00	9.76	QP
4 375.320	14.94	2.66	12.07	29.67	46.00	16.33	QP
5 607.150	19.80	3.41	14.19	37.40	46.00	8.60	QP
6 774.960	22.02	3.83	9.08	34.93	46.00	11.07	QP



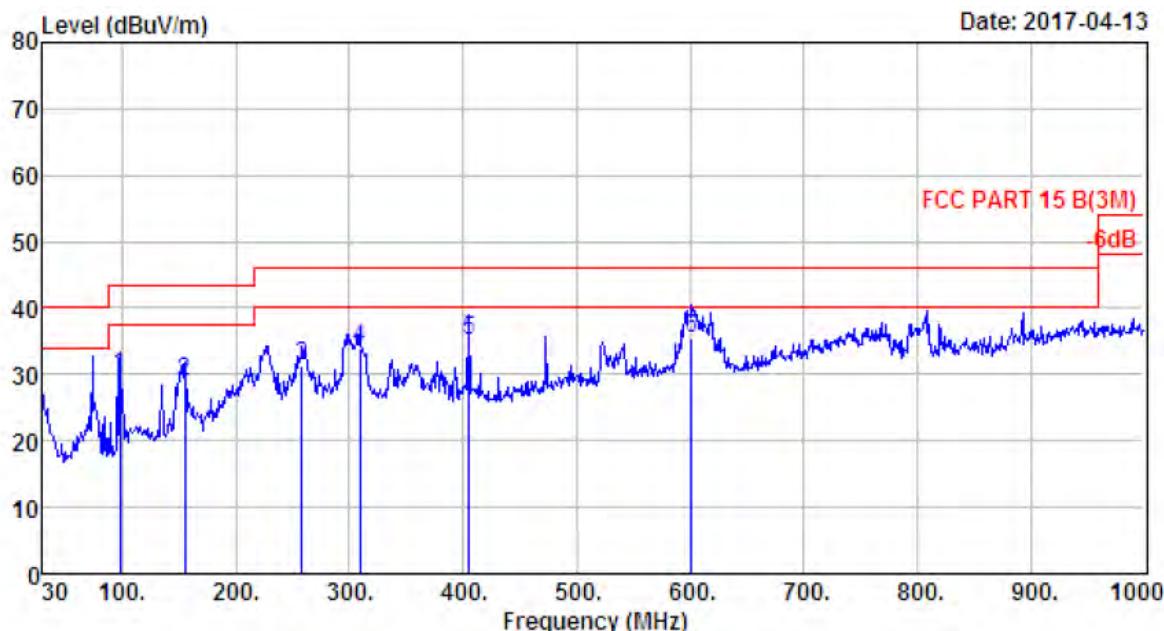
Site no. : 1# 966 Chamber Data no. : 1047  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B (3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	37.760	14.05	0.79	17.23	32.07	40.00	7.93	QP
2	95.960	8.92	1.31	20.51	30.74	43.50	12.76	QP
3	224.970	9.48	2.00	25.39	36.87	46.00	9.13	QP
4	296.750	12.99	2.32	20.10	35.41	46.00	10.59	QP
5	404.420	16.16	2.65	18.06	36.87	46.00	9.13	QP
6	606.180	19.77	3.40	13.83	37.00	46.00	9.00	QP



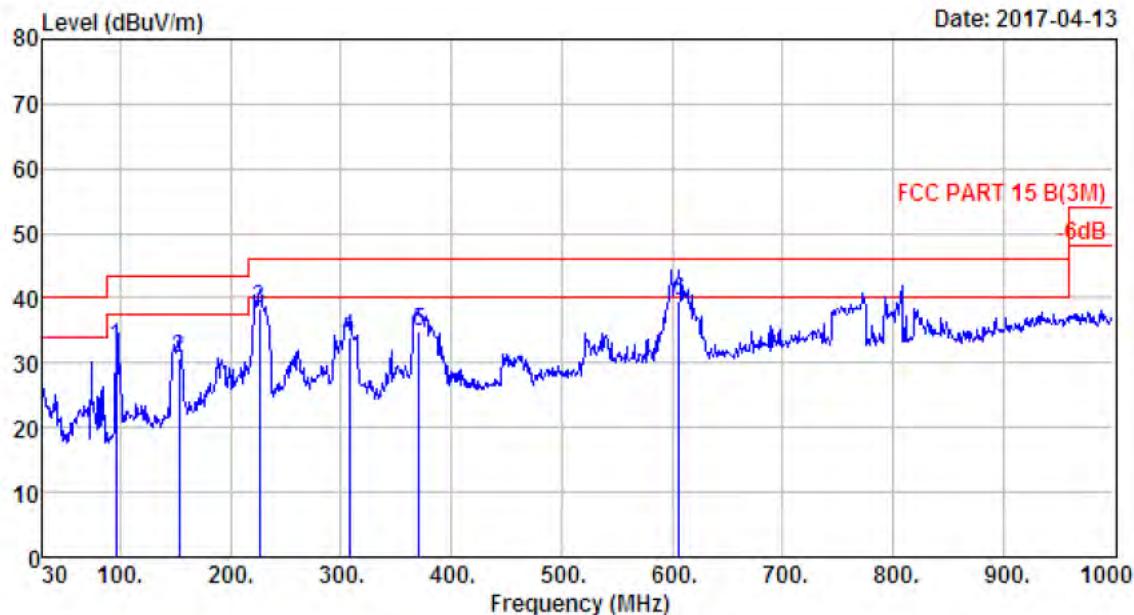
Site no. : 1# 966 Chamber Data no. : 1048  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH6 2437TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 37.760	14.05	0.79	16.83	31.67	40.00	8.33	QP
2 152.220	10.78	1.62	16.87	29.27	43.50	14.23	QP
3 226.910	9.46	2.04	15.76	27.26	46.00	18.74	QP
4 307.420	13.15	2.40	16.17	31.72	46.00	14.28	QP
5 404.420	16.16	2.65	17.77	36.58	46.00	9.42	QP
6 600.360	19.60	3.44	17.55	40.59	46.00	5.41	QP



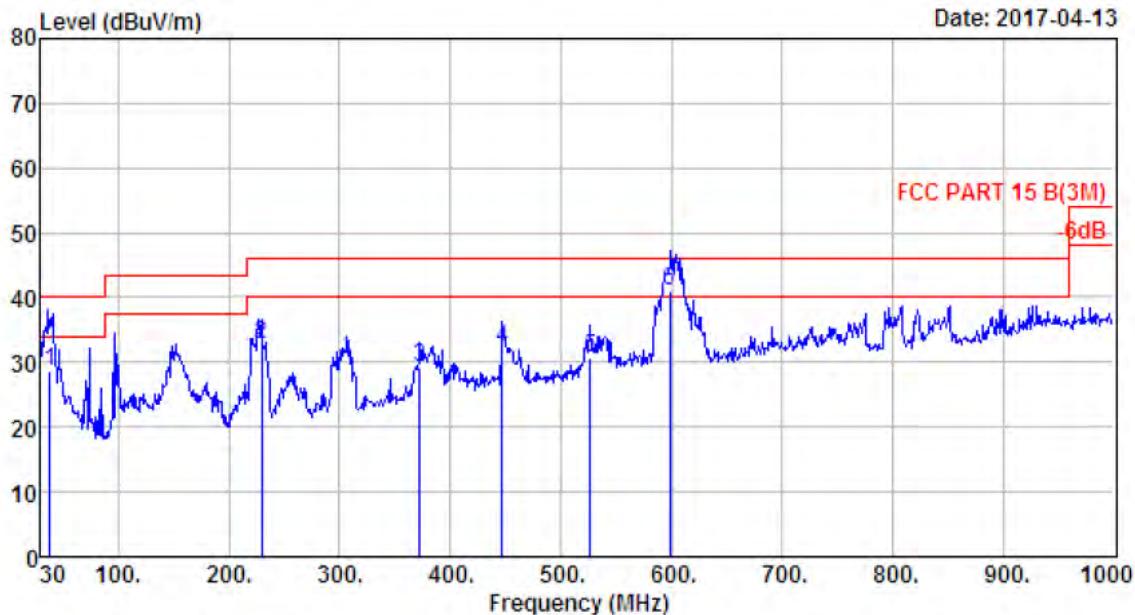
Site no. : 1# 966 Chamber Data no. : 1049  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH6 2437TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			Margin (dB)	Remark
				Level (dBuV/m)	Limit (dBuV/m)			
1 97.900	9.13	1.33	19.42	29.88	43.50	13.62	QP	
2 155.130	10.67	1.69	16.66	29.02	43.50	14.48	QP	
3 257.950	12.75	2.19	16.42	31.36	46.00	14.64	QP	
4 309.360	13.18	2.36	18.33	33.87	46.00	12.13	QP	
5 405.390	16.18	2.61	16.22	35.01	46.00	10.99	QP	
6 601.330	19.63	3.41	12.40	35.44	46.00	10.56	QP	



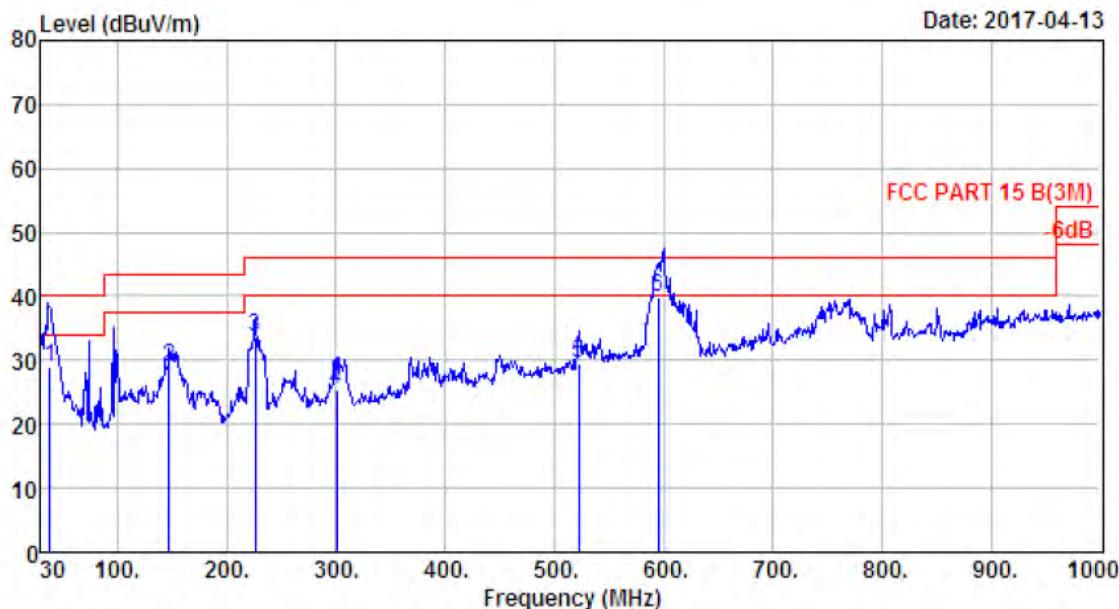
Site no. : 1# 966 Chamber Data no. : 1050  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH11 2462TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	95.960	8.92	1.31	22.30	32.53	43.50	10.97	QP
2	153.190	10.75	1.63	18.44	30.82	43.50	12.68	QP
3	225.940	9.47	1.99	26.95	38.41	46.00	7.59	QP
4	307.420	13.15	2.40	18.41	33.96	46.00	12.04	QP
5	370.470	14.88	2.66	17.41	34.95	46.00	11.05	QP
6	606.180	19.77	3.40	16.26	39.43	46.00	6.57	QP



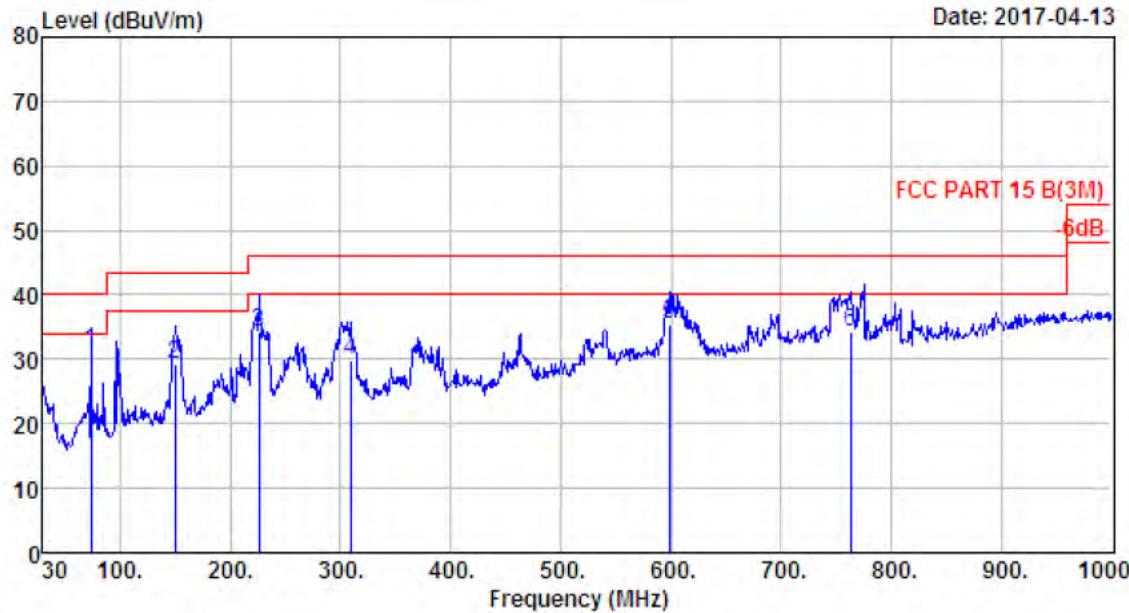
Site no. : 1# 966 Chamber Data no. : 1051  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 38.100	14.05	0.79	13.80	28.64	40.00	11.36	QP
2 229.820	9.44	2.07	21.23	32.74	46.00	13.26	QP
3 372.410	14.90	2.70	11.58	29.18	46.00	16.82	QP
4 447.100	16.40	2.98	12.83	32.21	46.00	13.79	QP
5 526.640	18.15	3.16	9.30	30.61	46.00	15.39	QP
6 598.300	19.57	3.43	18.10	41.10	46.00	4.90	QP



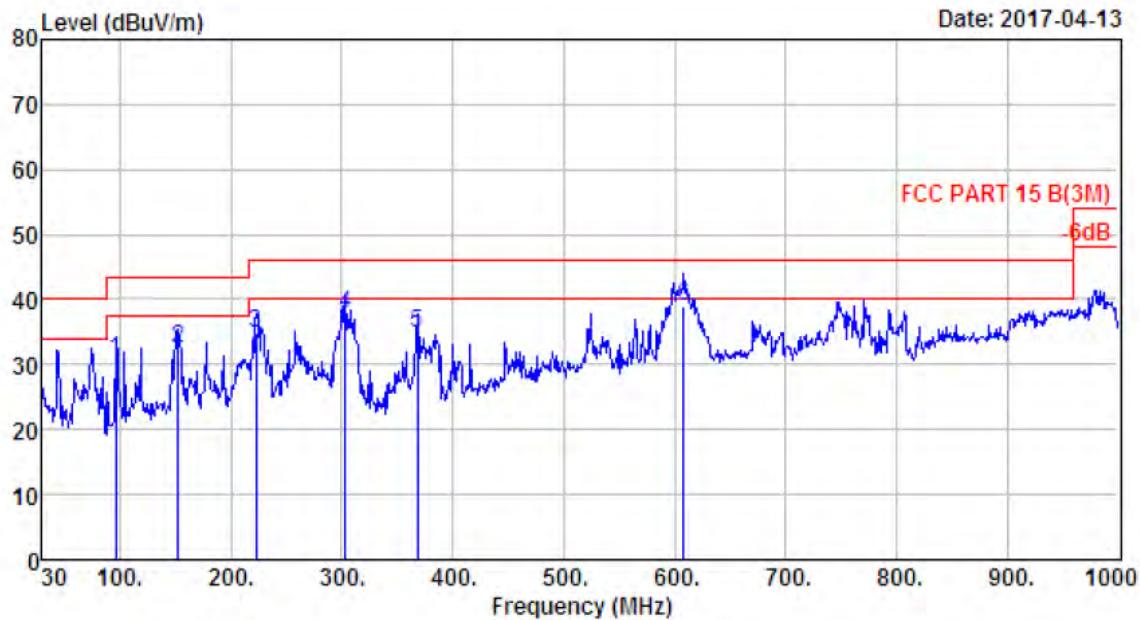
Site no. : 1# 966 Chamber Data no. : 1052  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 37.920	14.05	0.79	14.20	29.04	40.00	10.96	QP
2 147.370	11.08	1.64	16.11	28.83	43.50	14.67	QP
3 225.940	9.47	1.99	22.23	33.69	46.00	12.31	QP
4 300.630	13.03	2.37	10.13	25.53	46.00	20.47	QP
5 522.760	18.04	3.21	8.27	29.52	46.00	16.48	QP
6 595.000	19.52	3.33	17.00	39.85	46.00	6.15	QP



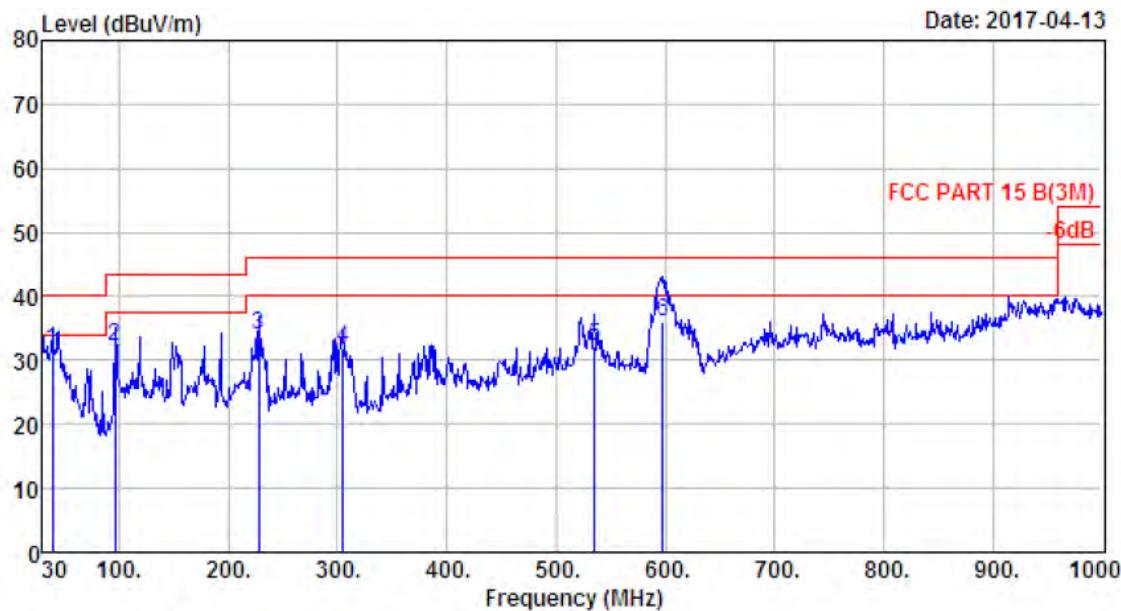
Site no. : 1# 966 Chamber Data no. : 1053  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 73.650	6.22	1.15	23.86	31.23	40.00	8.77	QP
2 150.280	10.86	1.60	16.70	29.16	43.50	14.34	QP
3 225.940	9.47	1.99	22.66	34.12	46.00	11.88	QP
4 309.360	13.18	2.36	14.31	29.85	46.00	16.15	QP
5 598.420	19.57	3.43	12.37	35.37	46.00	10.63	QP
6 763.320	22.04	3.90	8.43	34.37	46.00	11.63	QP



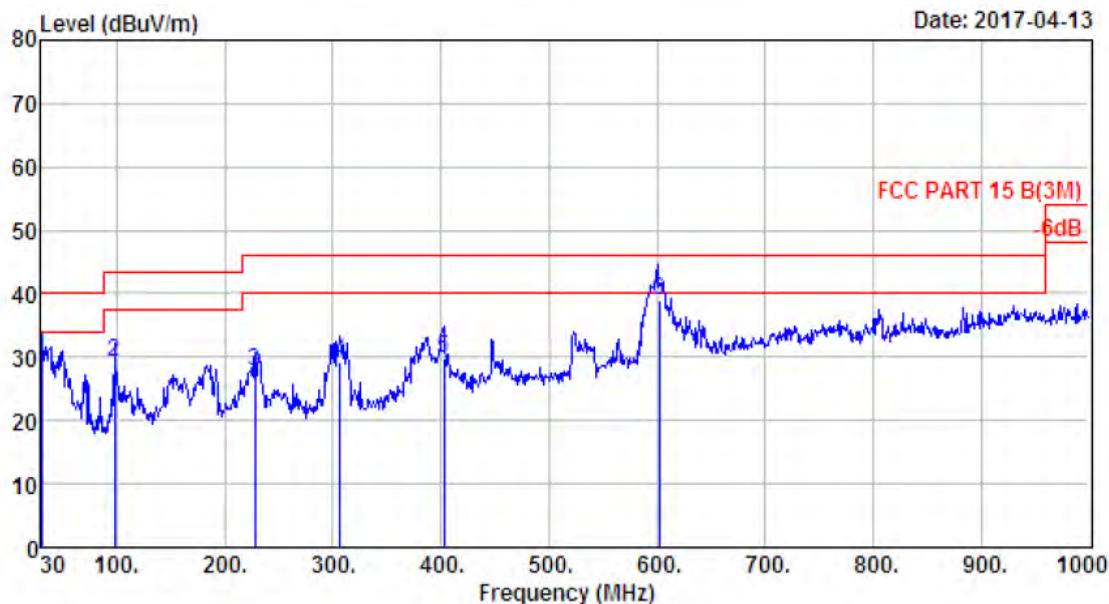
Site no. : 1# 966 Chamber Data no. : 1054  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

	ANT	Cable	Emission				Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 95.960	8.92	1.31	20.50	30.73	43.50	12.77	QP
2 152.220	10.78	1.62	19.98	32.38	43.50	11.12	QP
3 223.030	9.37	2.01	23.51	34.89	46.00	11.11	QP
4 303.540	13.08	2.43	22.28	37.79	46.00	8.21	QP
5 368.530	14.80	2.64	17.41	34.85	46.00	11.15	QP
6 608.120	19.82	3.41	15.61	38.84	46.00	7.16	QP



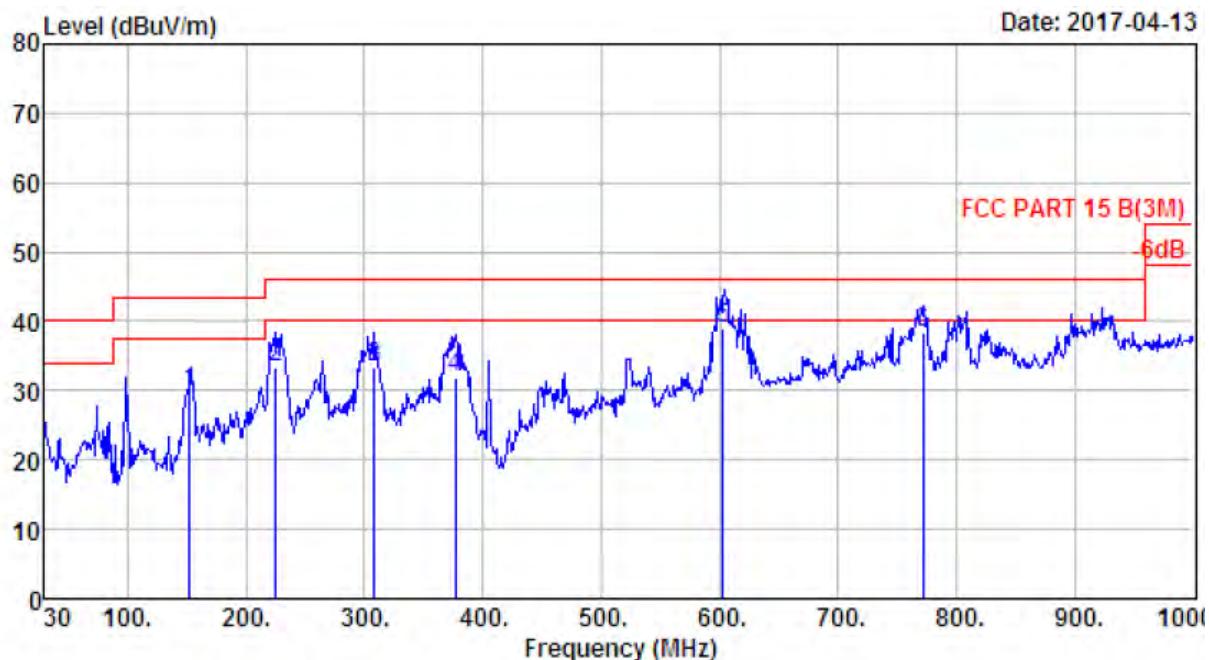
Site no. : 1# 966 Chamber Data no. : 1055  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

	ANT	Cable	Emission				Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 38.730	13.48	0.79	17.33	31.60	40.00	8.40	QP
2 95.960	8.92	1.31	21.81	32.04	43.50	11.46	QP
3 227.880	9.46	2.09	22.44	33.99	46.00	12.01	QP
4 304.510	13.10	2.37	16.49	31.96	46.00	14.04	QP
5 535.370	18.90	3.29	9.87	32.06	46.00	13.94	QP
6 597.450	19.55	3.39	13.10	36.04	46.00	9.96	QP



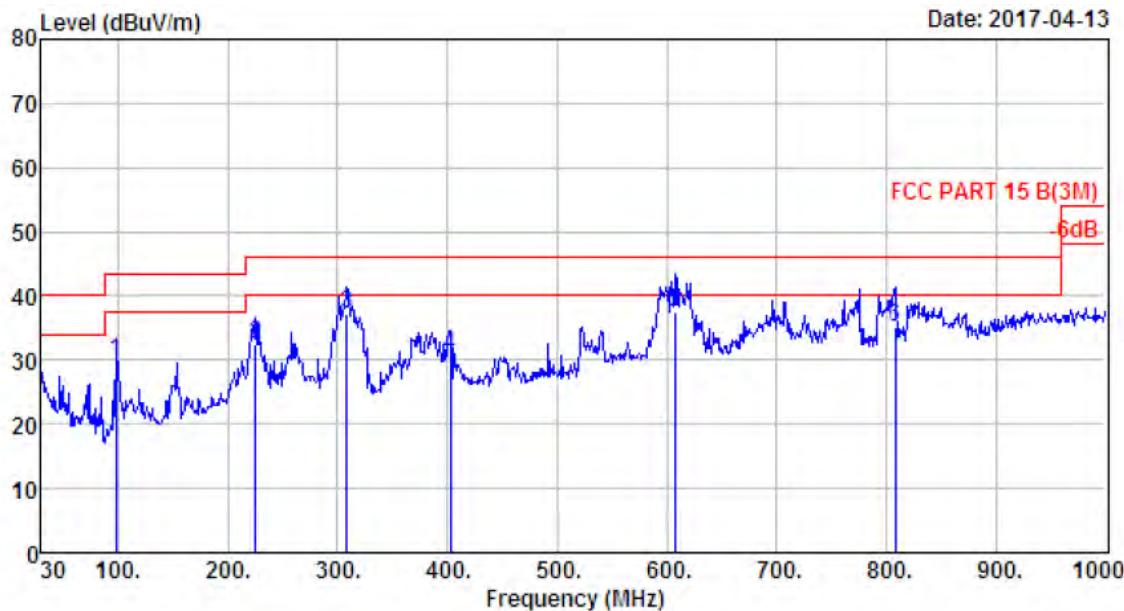
Site no. : 1# 966 Chamber Data no. : 1056  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B (3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 30.000	18.51	0.65	10.87	30.03	40.00	9.97	QP
2 97.900	9.13	1.33	18.66	29.12	43.50	14.38	QP
3 227.880	9.46	2.09	16.17	27.72	46.00	18.28	QP
4 306.450	13.13	2.35	13.89	29.37	46.00	16.63	QP
5 402.480	16.12	2.74	11.06	29.92	46.00	16.08	QP
6 602.000	19.66	3.41	16.00	39.07	46.00	6.93	QP



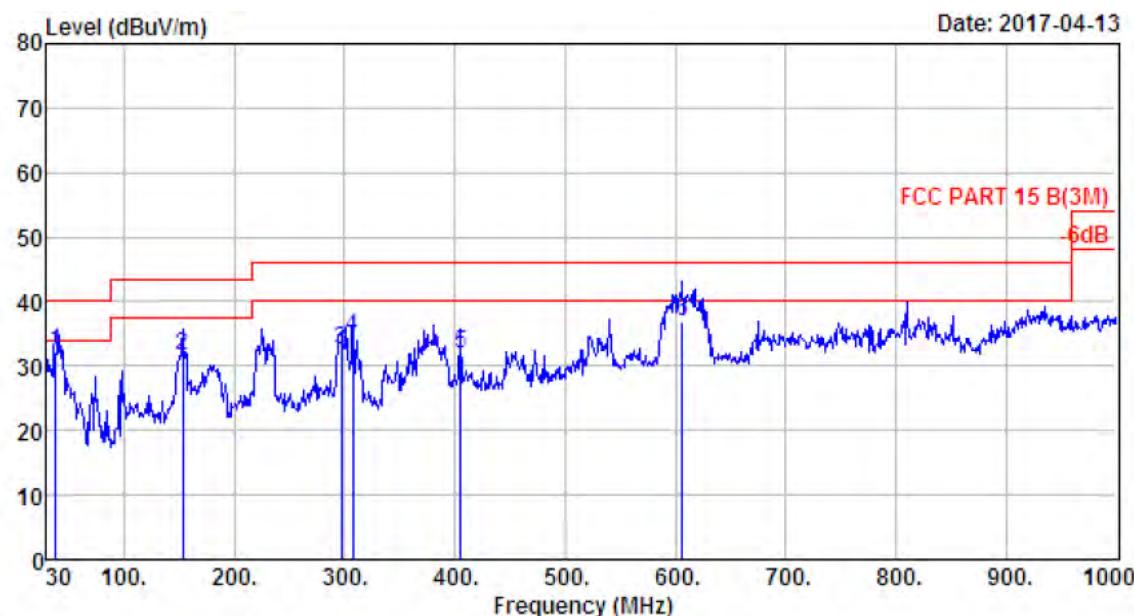
Site no. : 1# 966 Chamber Data no. : 1057  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 152.22	10.78	1.62	17.53	29.93	43.50	13.57	QP
2 224.97	9.48	2.00	21.79	33.27	46.00	12.73	QP
3 308.39	13.17	2.44	17.72	33.33	46.00	12.67	QP
4 377.26	14.96	2.62	14.39	31.97	46.00	14.03	QP
5 602.90	19.68	3.41	16.01	39.10	46.00	6.90	QP
6 772.05	22.04	3.89	12.39	38.32	46.00	7.68	QP



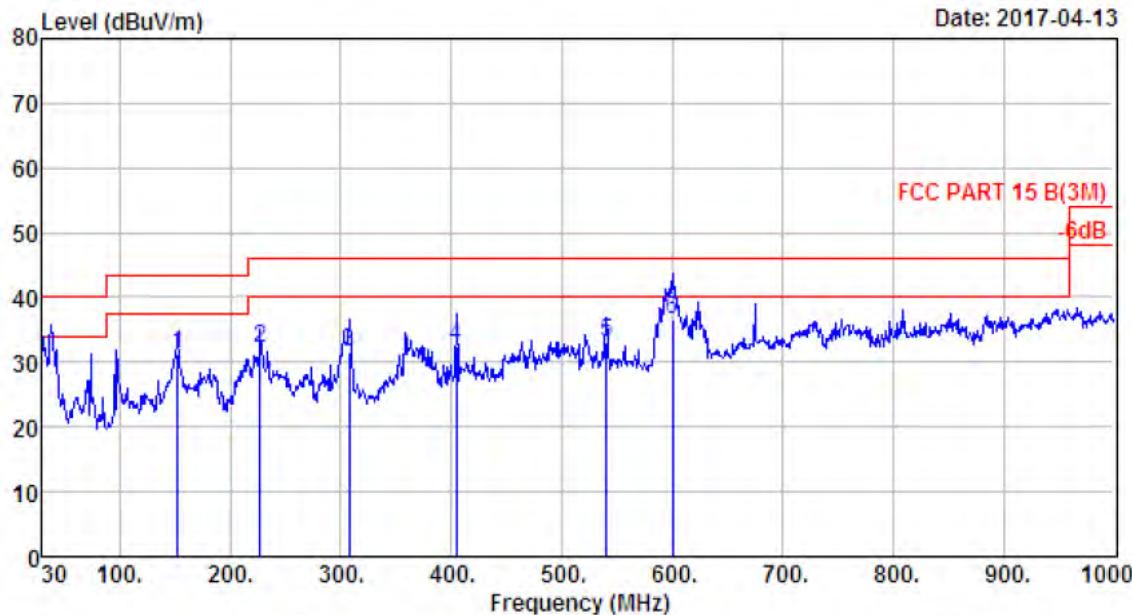
Site no. : 1# 966 Chamber Data no. : 1058  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B (3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 97.900	9.13	1.33	19.30	29.76	43.50	13.74	QP
2 224.970	9.48	2.00	21.09	32.57	46.00	13.43	QP
3 308.390	13.17	2.44	21.63	37.24	46.00	8.76	QP
4 402.480	16.12	2.74	11.82	30.68	46.00	15.32	QP
5 607.150	19.80	3.41	14.19	37.40	46.00	8.60	QP
6 807.940	22.31	3.80	9.13	35.24	46.00	10.76	QP



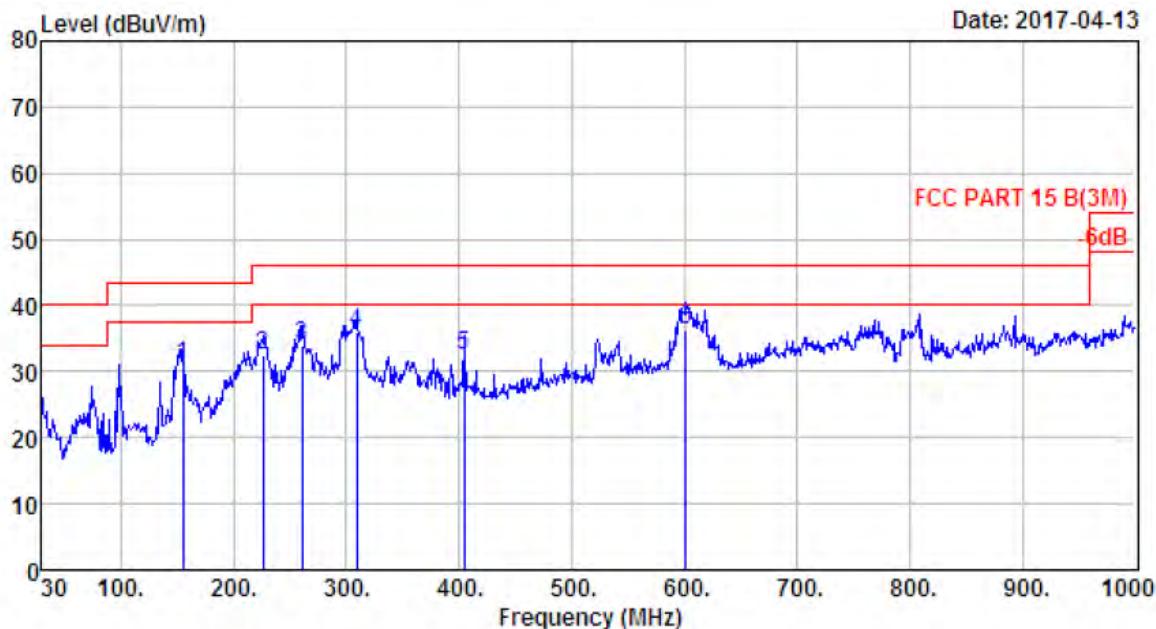
Site no. : 1# 966 Chamber Data no. : 1059  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B (3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 37.760	14.05	0.79	17.23	32.07	40.00	7.93	QP
2 153.190	10.75	1.63	19.21	31.59	43.50	11.91	QP
3 296.750	12.99	2.32	17.10	32.41	46.00	13.59	QP
4 307.420	13.15	2.40	18.92	34.47	46.00	11.53	QP
5 405.390	16.18	2.61	12.96	31.75	46.00	14.25	QP
6 606.180	19.77	3.40	13.83	37.00	46.00	9.00	QP



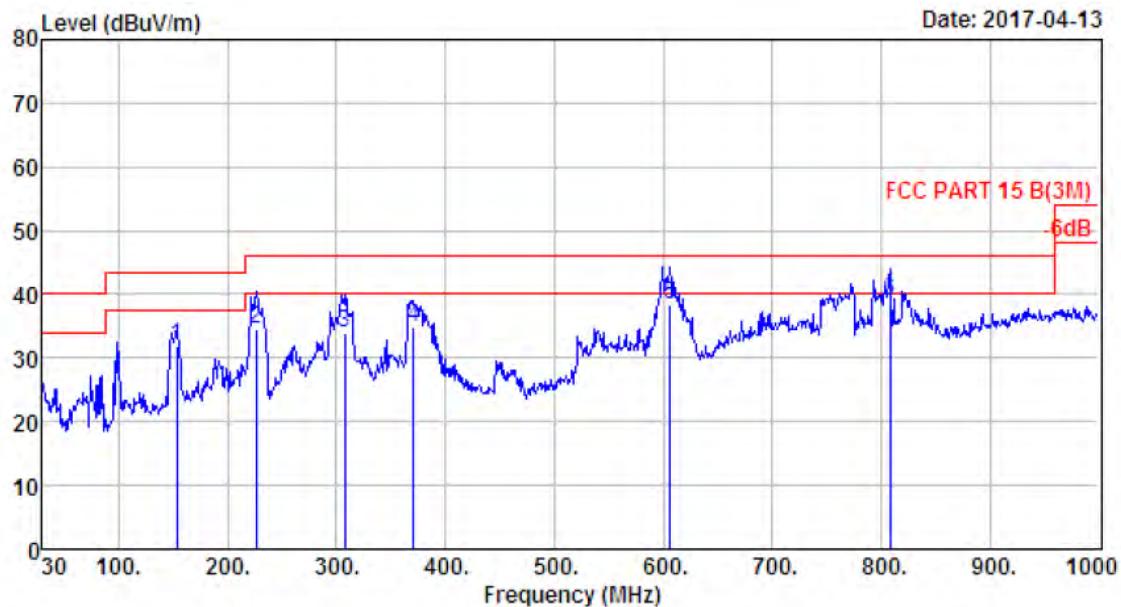
Site no. : 1# 966 Chamber Data no. : 1060  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B (3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

		ANT	Cable	Emission			Margin	Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	(dB)		
1 152.220	10.78	1.62	18.87	31.27	43.50	12.23	QP	
2 226.910	9.46	2.04	20.76	32.26	46.00	13.74	QP	
3 307.420	13.15	2.40	16.17	31.72	46.00	14.28	QP	
4 404.420	16.16	2.65	13.77	32.58	46.00	13.42	QP	
5 540.220	19.46	3.26	10.32	33.04	46.00	12.96	QP	
6 600.360	19.60	3.44	13.55	36.59	46.00	9.41	QP	



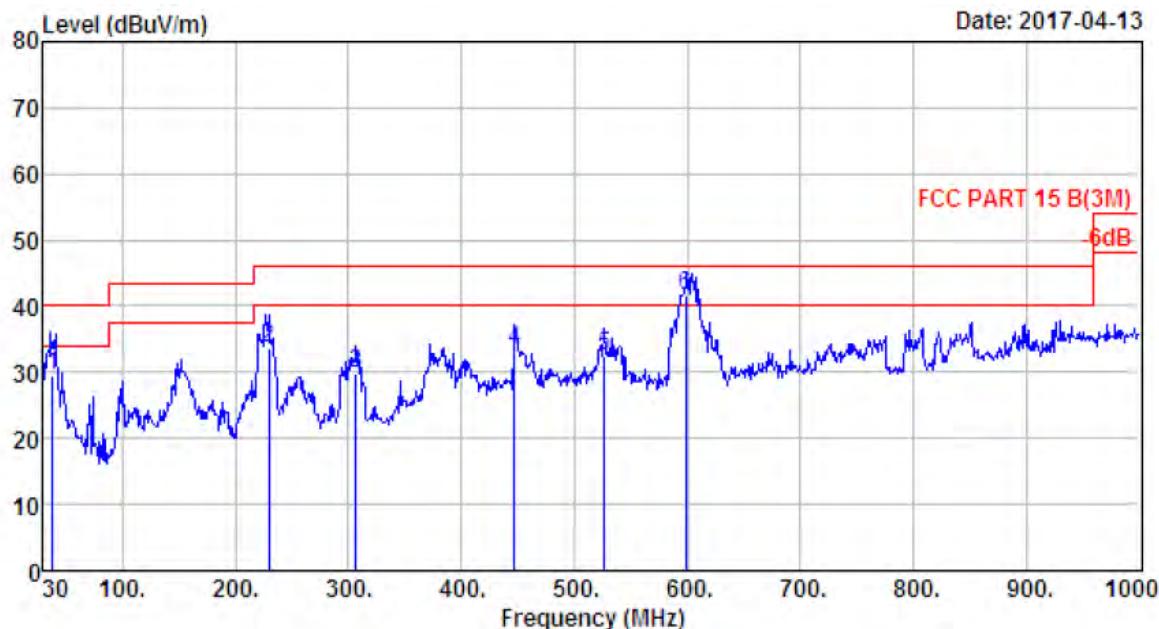
Site no. : 1# 966 Chamber Data no. : 1061  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	155.130	10.67	1.69	18.66	31.02	43.50	12.48	QP
2	225.940	9.47	1.99	20.87	32.33	46.00	13.67	QP
3	260.860	12.96	2.22	18.70	33.88	46.00	12.12	QP
4	309.360	13.18	2.36	20.33	35.87	46.00	10.13	QP
5	404.420	16.16	2.65	13.66	32.47	46.00	13.53	QP
6	601.330	19.63	3.41	13.40	36.44	46.00	9.56	QP



Site no. : 1# 966 Chamber Data no. : 1062  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B (3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

	ANT	Cable	Emission				
Freq.	Factor	Loss	Reading	Level	Limit	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 153.190	10.75	1.63	19.44	31.82	43.50	11.68	QP
2 225.940	9.47	1.99	22.95	34.41	46.00	11.59	QP
3 307.420	13.15	2.40	18.41	33.96	46.00	12.04	QP
4 370.470	14.88	2.66	17.41	34.95	46.00	11.05	QP
5 606.180	19.77	3.40	15.26	38.43	46.00	7.57	QP
6 807.940	22.31	3.80	12.94	39.05	46.00	6.95	QP



Site no. : 1# 966 Chamber Data no. : 1063  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B (3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Bible  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 38.100	14.05	0.79	14.60	29.44	40.00	10.56	QP
2 229.820	9.44	2.07	22.23	33.74	46.00	12.26	QP
3 306.450	13.13	2.35	14.33	29.81	46.00	16.19	QP
4 447.100	16.40	2.98	13.83	33.21	46.00	12.79	QP
5 526.640	18.15	3.16	11.30	32.61	46.00	13.39	QP
6 598.300	19.57	3.43	18.70	41.70	46.00	4.30	QP

## Above 1G

Site no. : 1# 966 Chamber Data no. : 1081  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	Ant.	Cable	Amp	Emission				Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2412.00	27.60	6.64	34.64	96.60	96.20	74.00	-22.20	Peak	
2 4060.00	29.77	10.83	36.18	42.91	47.33	74.00	26.67	Peak	
3 4824.00	31.28	11.84	35.66	36.84	44.30	74.00	29.70	Peak	
4 7236.00	36.53	11.55	33.99	29.06	43.15	74.00	30.85	Peak	
5 10214.00	38.48	11.47	34.50	29.80	45.25	74.00	28.75	Peak	
6 13546.00	40.21	11.44	32.61	28.45	47.49	74.00	26.51	Peak	

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

Site no. : 1# 966 Chamber Data no. : 1082  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	Ant.	Cable	Amp	Emission				Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2412.00	27.60	6.64	34.64	100.90	100.50	74.00	-26.50	Peak	
2 3975.00	29.60	10.81	36.42	40.48	44.47	74.00	29.53	Peak	
3 4824.00	31.28	11.84	35.66	37.90	45.36	74.00	28.64	Peak	
4 7236.00	36.53	11.55	33.99	34.32	48.41	74.00	25.59	Peak	
5 8684.00	37.32	11.45	33.66	31.38	46.49	74.00	27.51	Peak	
6 9670.00	38.01	11.67	35.09	31.46	46.05	74.00	27.95	Peak	

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

Site no. : 1# 966 Chamber Data no. : 1083  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH6 2437TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	86.24	85.66	74.00	-11.66	Peak
2	3992.00	29.65	10.89	36.38	41.66	45.82	74.00	28.18	Peak
3	4874.00	31.37	12.07	35.76	38.89	46.57	74.00	27.43	Peak
4	7311.00	36.55	11.57	34.12	30.24	44.24	74.00	29.76	Peak
5	9126.00	37.62	11.52	34.09	29.86	44.91	74.00	29.09	Peak
6	14005.00	41.46	10.90	33.01	27.24	46.59	74.00	27.41	Peak

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

Site no. : 1# 966 Chamber Data no. : 1084  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH6 2437TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	95.95	95.37	74.00	-21.37	Peak
2	4026.00	29.71	10.86	36.28	40.23	44.52	74.00	29.48	Peak
3	4837.00	31.31	11.92	35.68	32.73	40.28	74.00	33.72	Peak
4	7311.00	36.55	11.57	34.12	28.97	42.97	74.00	31.03	Peak
5	8684.00	37.32	11.45	33.66	28.99	44.10	74.00	29.90	Peak
6	11370.00	39.28	11.02	33.51	26.63	43.42	74.00	30.58	Peak

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

Site no. : 1# 966 Chamber Data no. : 1085  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH11 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	98.28	97.57	74.00	-23.57	Peak
2	4060.00	29.77	10.83	36.18	40.96	45.38	74.00	28.62	Peak
3	4924.00	31.45	12.29	35.91	38.81	46.64	74.00	27.36	Peak
4	7386.00	36.57	11.59	34.23	33.17	47.10	74.00	26.90	Peak
5	11234.00	39.37	11.12	33.25	28.54	45.78	74.00	28.22	Peak
6	13546.00	40.21	11.44	32.61	27.74	46.78	74.00	27.22	Peak

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

Site no. : 1# 966 Chamber Data no. : 1086  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH11 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	91.67	90.96	74.00	-16.96	Peak
2	4060.00	29.77	10.83	36.18	43.22	47.64	74.00	26.36	Peak
3	4924.00	31.45	12.29	35.91	36.32	44.15	74.00	29.85	Peak
4	7386.00	36.57	11.59	34.23	31.18	45.11	74.00	28.89	Peak
5	8650.00	37.27	11.45	33.68	31.68	46.72	74.00	27.28	Peak
6	11200.00	39.39	11.14	33.24	29.48	46.77	74.00	27.23	Peak

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

Site no. : 1# 966 Chamber Data no. : 1087  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	94.12	93.72	74.00	-19.72	Peak
2	4026.00	29.71	10.86	36.28	41.07	45.36	74.00	28.64	Peak
3	4824.00	31.28	11.84	35.66	41.09	48.55	74.00	25.45	Peak
4	7236.00	36.53	11.55	33.99	32.44	46.53	74.00	27.47	Peak
5	8735.00	37.40	11.45	33.76	29.12	44.21	74.00	29.79	Peak
6	14124.00	41.57	10.91	33.22	26.67	45.93	74.00	28.07	Peak

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

Site no. : 1# 966 Chamber Data no. : 1088  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	89.11	88.71	74.00	-14.71	Peak
2	4824.00	31.28	11.84	35.66	41.05	48.51	74.00	25.49	Peak
3	7236.00	36.53	11.55	33.99	30.01	44.10	74.00	29.90	Peak
4	8684.00	37.32	11.45	33.66	30.83	45.94	74.00	28.06	Peak
5	11166.00	39.41	11.17	33.31	27.38	44.65	74.00	29.35	Peak
6	14124.00	41.57	10.91	33.22	27.44	46.70	74.00	27.30	Peak

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

Site no. : 1# 966 Chamber Data no. : 1089  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH6 2437TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	92.69	92.11	74.00	-18.11	Peak
2	4874.00	31.37	12.07	35.76	42.72	50.40	74.00	23.60	Peak
3	7311.00	36.55	11.57	34.12	28.94	42.94	74.00	31.06	Peak
4	8650.00	37.27	11.45	33.68	28.75	43.79	74.00	30.21	Peak
5	11285.00	39.33	11.08	33.32	27.23	44.32	74.00	29.68	Peak
6	14090.00	41.54	10.91	33.13	27.31	46.63	74.00	27.37	Peak

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

Site no. : 1# 966 Chamber Data no. : 1090  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH6 2437TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	91.27	90.69	74.00	-16.69	Peak
2	3975.00	29.60	10.81	36.42	40.75	44.74	74.00	29.26	Peak
3	4874.00	31.37	12.07	35.76	40.71	48.39	74.00	25.61	Peak
4	7311.00	36.55	11.57	34.12	26.56	40.56	74.00	33.44	Peak
5	10180.00	38.42	11.49	34.53	28.59	43.97	74.00	30.03	Peak
6	14056.00	41.51	10.90	33.06	26.94	46.29	74.00	27.71	Peak

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

Site no. : 1# 966 Chamber Data no. : 1091  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH11 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	92.90	92.19	74.00	-18.19	Peak
2	4924.00	31.45	12.29	35.91	43.56	51.39	74.00	22.61	Peak
3	7386.00	36.57	11.59	34.23	30.07	44.00	74.00	30.00	Peak
4	8684.00	37.32	11.45	33.66	30.26	45.37	74.00	28.63	Peak
5	11200.00	39.39	11.14	33.24	28.14	45.43	74.00	28.57	Peak
6	13529.00	40.16	11.46	32.62	27.72	46.72	74.00	27.28	Peak

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

Site no. : 1# 966 Chamber Data no. : 1092  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH11 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	93.53	92.82	74.00	-18.82	Peak
2	4924.00	31.45	12.29	35.91	40.07	47.90	74.00	26.10	Peak
3	7386.00	36.57	11.59	34.23	30.04	43.97	74.00	30.03	Peak
4	8480.00	36.91	11.45	34.18	32.47	46.65	74.00	27.35	Peak
5	11506.00	39.20	10.92	33.46	29.25	45.91	74.00	28.09	Peak
6	14345.00	41.76	10.92	33.39	28.24	47.53	74.00	26.47	Peak

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

Site no. : 1# 966 Chamber Data no. : 1093  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	89.87	89.47	74.00	-15.47	Peak
2	4824.00	31.28	11.84	35.66	40.11	47.57	74.00	26.43	Peak
3	7386.00	36.57	11.59	34.23	30.20	44.13	74.00	29.87	Peak
4	8480.00	36.91	11.45	34.18	31.77	45.95	74.00	28.05	Peak
5	11115.00	39.44	11.20	33.55	28.38	45.47	74.00	28.53	Peak
6	14124.00	41.57	10.91	33.22	28.27	47.53	74.00	26.47	Peak

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

Site no. : 1# 966 Chamber Data no. : 1094  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	93.07	92.67	74.00	-18.67	Peak
2	4824.00	31.28	11.84	35.66	42.49	49.95	74.00	24.05	Peak
3	7236.00	36.53	11.55	33.99	32.91	47.00	74.00	27.00	Peak
4	9585.00	37.92	11.69	35.00	29.92	44.53	74.00	29.47	Peak
5	11676.00	39.00	11.09	33.24	28.00	44.85	74.00	29.15	Peak
6	14056.00	41.51	10.90	33.06	27.95	47.30	74.00	26.70	Peak

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

Site no. : 1# 966 Chamber Data no. : 1095  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	90.92	90.34	74.00	-16.34	Peak
2	4060.00	29.77	10.83	36.18	42.36	46.78	74.00	27.22	Peak
3	4874.00	31.37	12.07	35.76	41.55	49.23	74.00	24.77	Peak
4	7311.00	36.55	11.57	34.12	30.77	44.77	74.00	29.23	Peak
5	8684.00	37.32	11.45	33.66	30.32	45.43	74.00	28.57	Peak
6	11200.00	39.39	11.14	33.24	29.43	46.72	74.00	27.28	Peak

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

Site no. : 1# 966 Chamber Data no. : 1096  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	91.47	90.89	74.00	-16.89	Peak
2	4874.00	31.37	12.07	35.76	40.61	48.29	74.00	25.71	Peak
3	7311.00	36.55	11.57	34.12	29.99	43.99	74.00	30.01	Peak
4	8650.00	37.27	11.45	33.68	31.56	46.60	74.00	27.40	Peak
5	10996.00	39.52	11.29	34.11	29.49	46.19	74.00	27.81	Peak
6	14090.00	41.54	10.91	33.13	28.72	48.04	74.00	25.96	Peak

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

Site no. : 1# 966 Chamber Data no. : 1097  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	93.66	92.95	74.00	-18.95	Peak
2	4924.00	31.45	12.29	35.91	41.89	49.72	74.00	24.28	Peak
3	7386.00	36.57	11.59	34.23	32.48	46.41	74.00	27.59	Peak
4	9126.00	37.62	11.52	34.09	30.32	45.37	74.00	28.63	Peak
5	11200.00	39.39	11.14	33.24	28.56	45.85	74.00	28.15	Peak
6	13614.00	40.40	11.36	32.68	29.34	48.42	74.00	25.58	Peak

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

Site no. : 1# 966 Chamber Data no. : 1098  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	92.03	91.32	74.00	-17.32	Peak
2	3975.00	29.60	10.81	36.42	41.30	45.29	74.00	28.71	Peak
3	4924.00	31.45	12.29	35.91	40.96	48.79	74.00	25.21	Peak
4	7386.00	36.57	11.59	34.23	30.44	44.37	74.00	29.63	Peak
5	8684.00	37.32	11.45	33.66	30.03	45.14	74.00	28.86	Peak
6	11285.00	39.33	11.08	33.32	28.74	45.83	74.00	28.17	Peak

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

Site no. : 1# 966 Chamber Data no. : 1099  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.60	6.66	34.74	89.90	89.42	74.00	-15.42	Peak
2	4844.00	31.31	11.92	35.68	40.65	48.20	74.00	25.80	Peak
3	7266.00	36.54	11.56	34.05	29.71	43.76	74.00	30.24	Peak
4	8684.00	37.32	11.45	33.66	31.04	46.15	74.00	27.85	Peak
5	11676.00	39.00	11.09	33.24	28.72	45.57	74.00	28.43	Peak
6	14294.00	41.71	10.92	33.42	27.78	46.99	74.00	27.01	Peak

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

Site no. : 1# 966 Chamber Data no. : 1099  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.60	6.66	34.74	89.90	89.42	74.00	-15.42	Peak
2	4844.00	31.31	11.92	35.68	40.65	48.20	74.00	25.80	Peak
3	7266.00	36.54	11.56	34.05	29.71	43.76	74.00	30.24	Peak
4	8684.00	37.32	11.45	33.66	31.04	46.15	74.00	27.85	Peak
5	11676.00	39.00	11.09	33.24	28.72	45.57	74.00	28.43	Peak
6	14294.00	41.71	10.92	33.42	27.78	46.99	74.00	27.01	Peak

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

Site no. : 1# 966 Chamber Data no. : 1101  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	89.30	88.72	74.00	-14.72	Peak
2	4060.00	29.77	10.83	36.18	40.96	45.38	74.00	28.62	Peak
3	4874.00	31.37	12.07	35.76	41.73	49.41	74.00	24.59	Peak
4	7311.00	36.55	11.57	34.12	29.72	43.72	74.00	30.28	Peak
5	11115.00	39.44	11.20	33.55	27.57	44.66	74.00	29.34	Peak
6	14175.00	41.61	10.91	33.35	26.77	45.94	74.00	28.06	Peak

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

Site no. : 1# 966 Chamber Data no. : 1102  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	88.46	87.88	74.00	-13.88	Peak
2	4060.00	29.77	10.83	36.18	39.35	43.77	74.00	30.23	Peak
3	4874.00	31.37	12.07	35.76	42.05	49.73	74.00	24.27	Peak
4	7311.00	36.55	11.57	34.12	29.53	43.53	74.00	30.47	Peak
5	8514.00	36.96	11.45	34.07	30.94	45.28	74.00	28.72	Peak
6	10350.00	38.71	11.39	34.53	28.26	43.83	74.00	30.17	Peak

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

Site no. : 1# 966 Chamber Data no. : 1103  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.59	6.67	34.85	85.97	85.38	74.00	-11.38	Peak
2	4904.00	31.42	12.22	35.87	38.02	45.79	74.00	28.21	Peak
3	7356.00	36.56	11.58	34.19	28.30	42.25	74.00	31.75	Peak
4	8684.00	37.32	11.45	33.66	29.35	44.46	74.00	29.54	Peak
5	10945.00	39.46	11.29	34.13	28.20	44.82	74.00	29.18	Peak
6	13614.00	40.40	11.36	32.68	27.77	46.85	74.00	27.15	Peak

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

Site no. : 1# 966 Chamber Data no. : 1104  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.59	6.67	34.85	89.52	88.93	74.00	-14.93	Peak
2	3975.00	29.60	10.81	36.42	40.54	44.53	74.00	29.47	Peak
3	4904.00	31.42	12.22	35.87	43.78	51.55	74.00	22.45	Peak
4	7356.00	36.56	11.58	34.19	32.43	46.38	74.00	27.62	Peak
5	8735.00	37.40	11.45	33.76	31.08	46.17	74.00	27.83	Peak
6	10996.00	39.52	11.29	34.11	30.08	46.78	74.00	27.22	Peak

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

## 5 BAND EDGE COMPLIANCE TEST

### 5.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits

### 5.2 Test Procedure

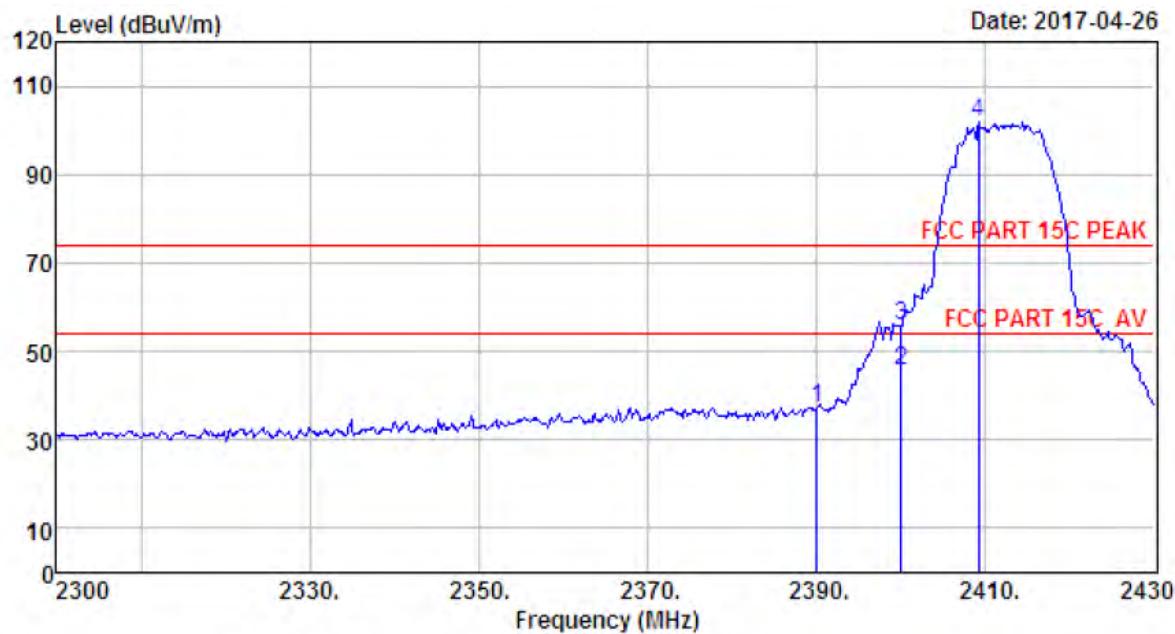
1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - (a) Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto
  - (b) AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto

### 5.3 Test Result

Pass (The testing data was attached in the next pages.)

Note: 1、For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.  
2、The frequency 2412MHz, 2422MHz, 2452MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.

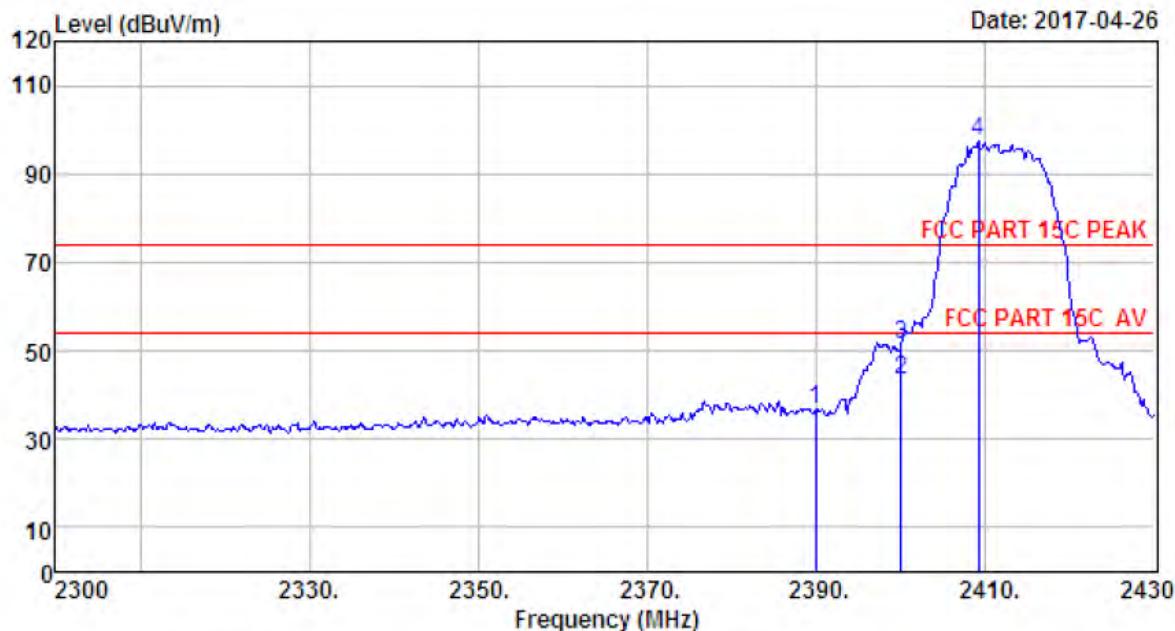
## 5.4 Test Data



Site no. : 1# 966 Chamber Data no. : 1105  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	37.63	37.27	74.00	36.73	Peak
2	2400.00	27.61	6.62	34.64	46.18	45.77	54.00	8.23	Average
3	2400.00	27.61	6.62	34.64	56.18	55.77	74.00	18.23	Peak
4	2409.20	27.60	6.64	34.64	102.36	101.96	74.00	-27.96	Peak

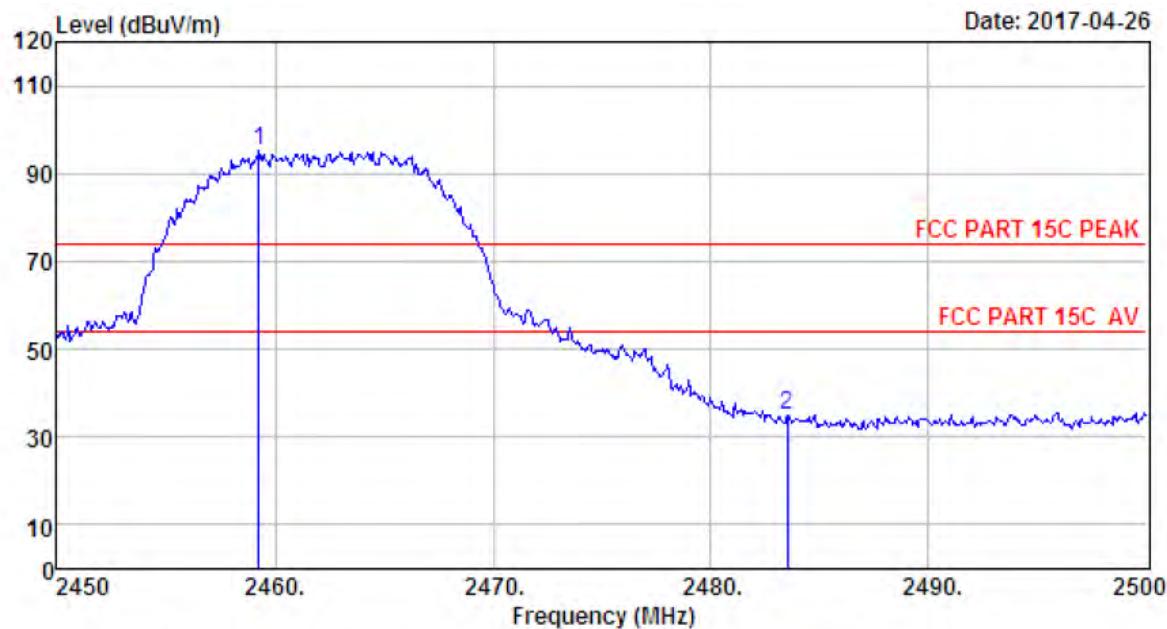
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1106  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2389.96	27.64	6.62	34.62	37.07	36.71	74.00	37.29		Peak
2 2399.97	27.61	6.62	34.64	43.75	43.34	54.00	10.66		Average
3 2399.97	27.61	6.62	34.64	51.75	51.34	74.00	22.66		Peak
4 2409.20	27.60	6.64	34.64	98.02	97.62	74.00	-23.62		Peak

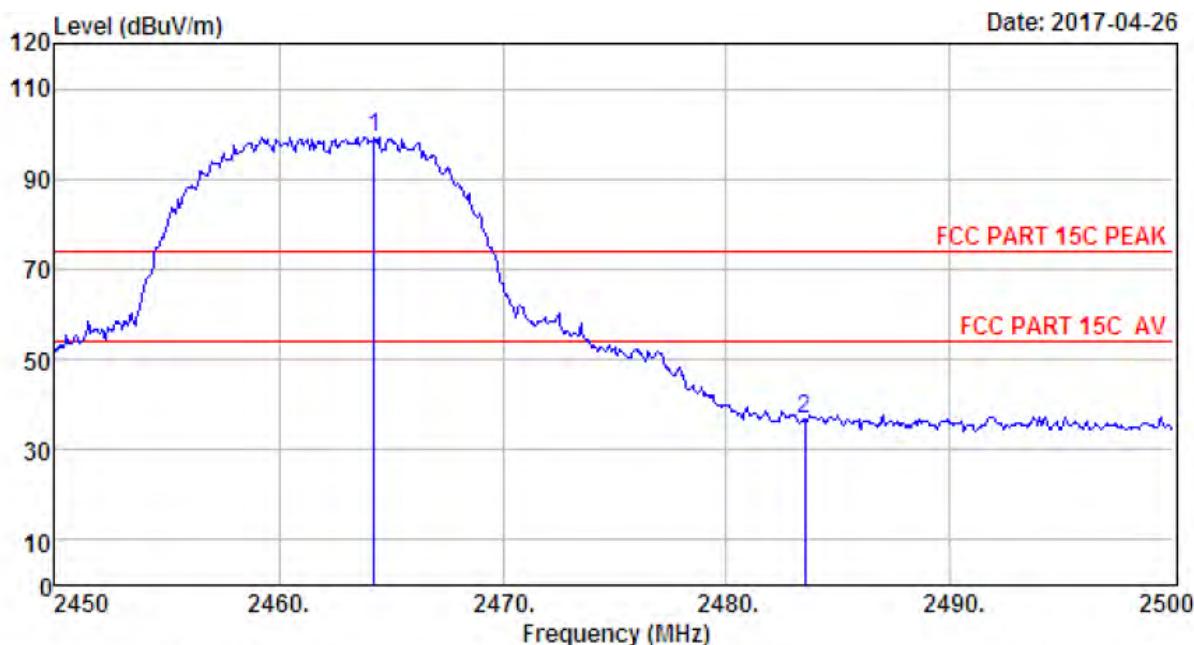
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1107  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH11 2462TX

Freq. (MHz)	Ant.			Cable		Amp		Emission			Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)				
1 2459.25	27.59	6.69	34.98	95.83	95.13	74.00	-21.13			Peak	
2 2483.50	27.58	6.71	35.11	35.65	34.83	74.00	39.17			Peak	

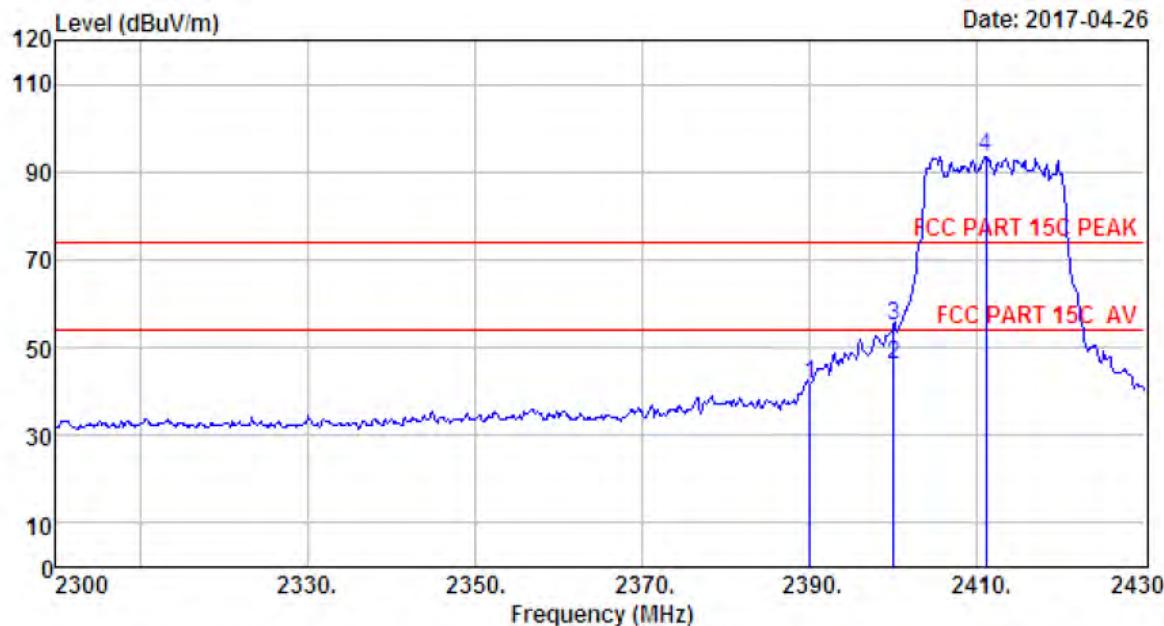
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1108  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11b CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2464.25	27.58	6.69	34.98	100.04	99.33	74.00	-25.33	Peak	
2 2483.50	27.58	6.71	35.11	37.56	36.74	74.00	37.26	Peak	

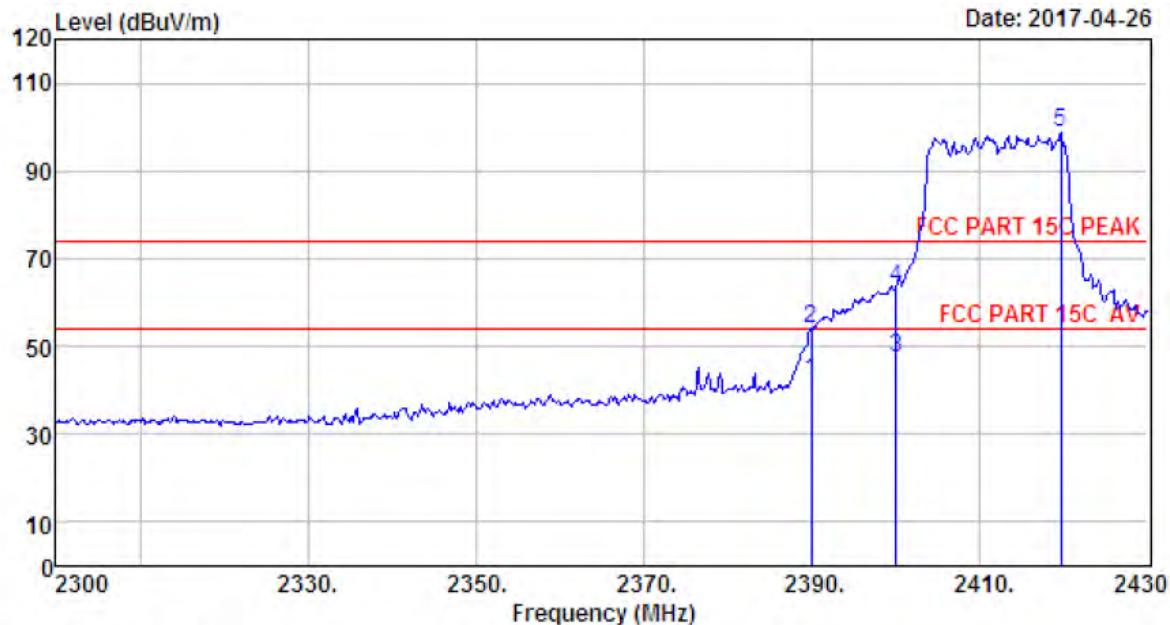
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1109  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
<hr/>									
1	2390.00	27.64	6.62	34.62	42.15	41.79	74.00	32.21	Peak
2	2400.00	27.61	6.62	34.64	46.24	45.83	54.00	8.17	Average
3	2400.00	27.61	6.62	34.64	55.24	54.83	74.00	19.17	Peak
4	2411.02	27.60	6.64	34.64	93.81	93.41	74.00	-19.41	Peak

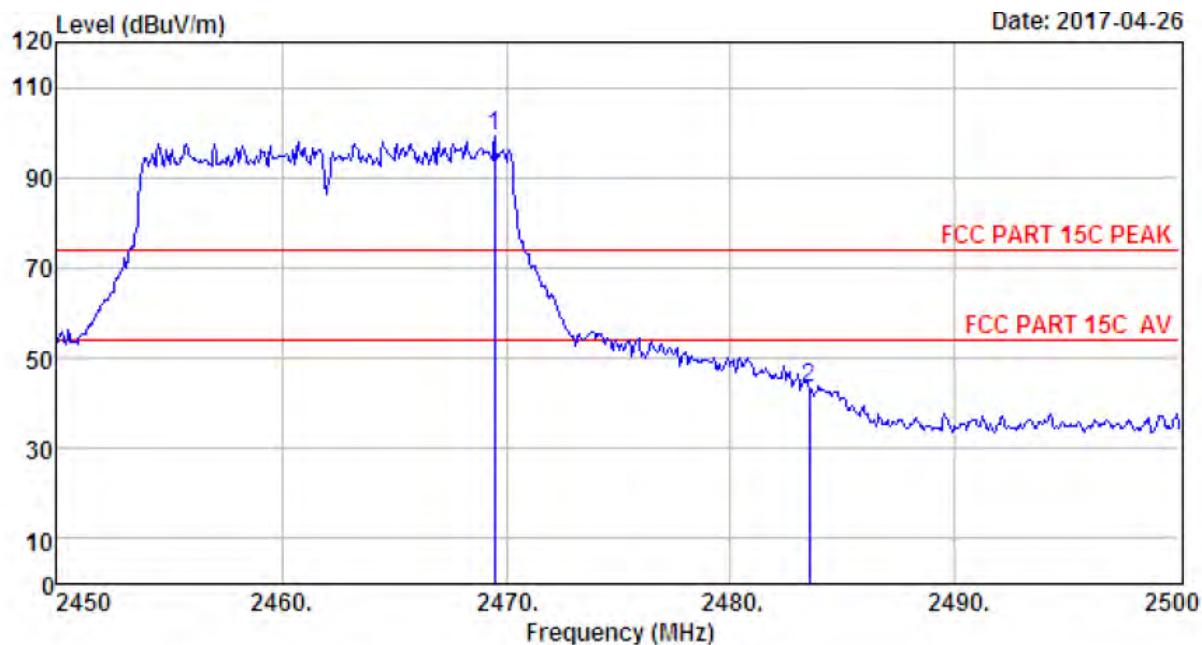
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1110  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.96	27.64	6.62	34.62	42.48	42.12	54.00	11.88	Average
2	2389.96	27.64	6.62	34.62	54.48	54.12	74.00	19.88	Peak
3	2399.97	27.61	6.62	34.64	47.82	47.41	54.00	6.59	Average
4	2399.97	27.61	6.62	34.64	63.82	63.41	74.00	10.59	Peak
5	2419.60	27.60	6.66	34.74	99.02	98.54	74.00	-24.54	Peak

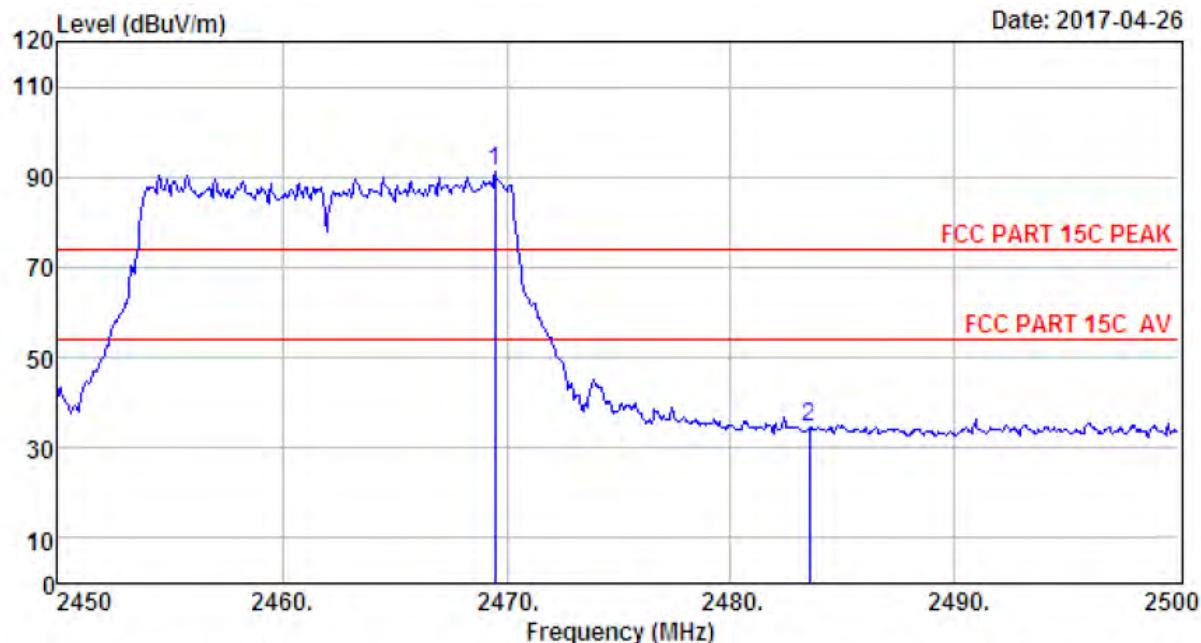
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1111  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2469.50	27.58	6.69	34.98	99.96	99.25	74.00	-25.25	Peak	
2 2483.50	27.58	6.71	35.11	44.19	43.37	74.00	30.63	Peak	

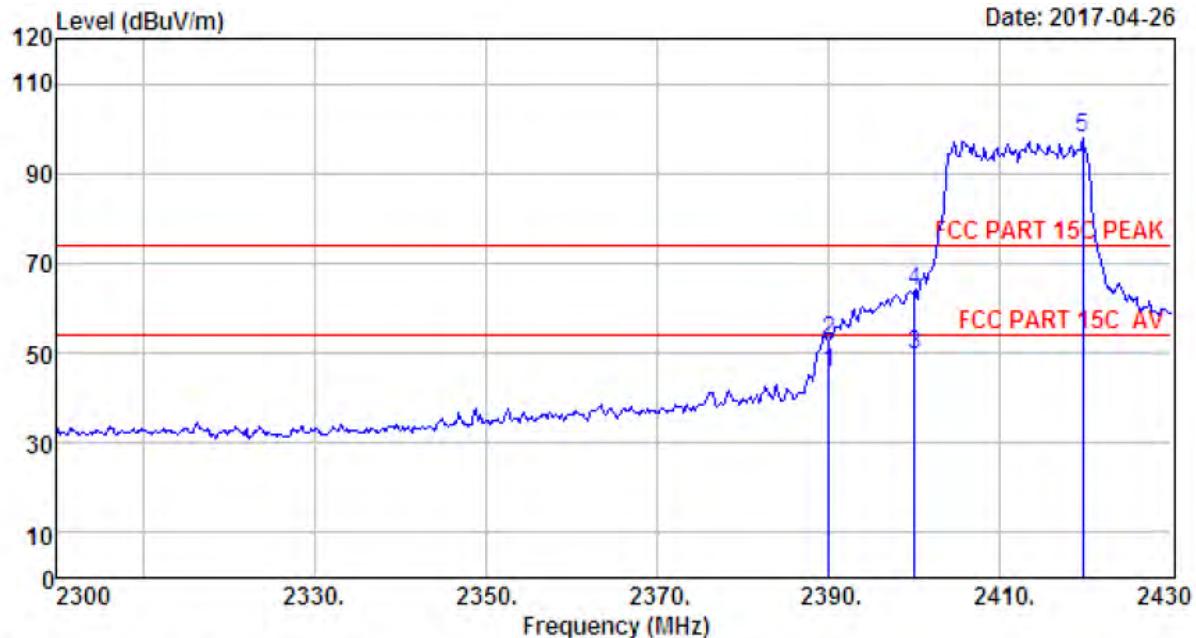
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1112  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11g CH11 2462TX

Freq. (MHz)	Ant.	Cable	Amp	Emission			Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1 2469.50	27.58	6.69	34.98	92.15	91.44	74.00	-17.44	Peak
2 2483.50	27.58	6.71	35.11	35.36	34.54	74.00	39.46	Peak

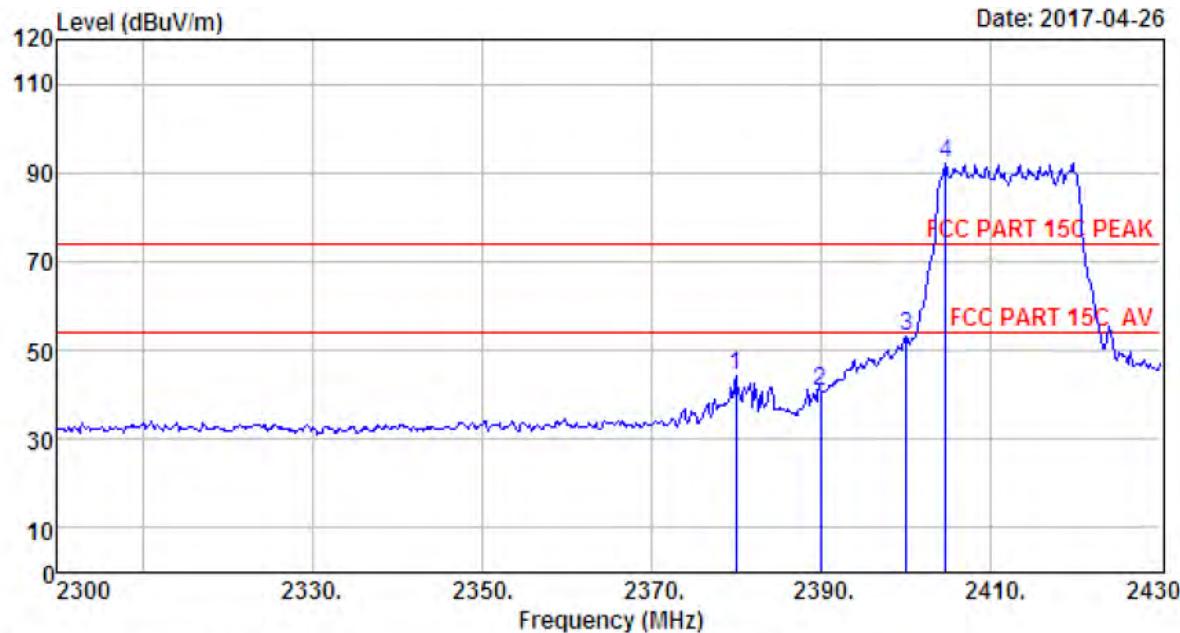
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1113  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2390.00	27.64	6.62	34.62	46.00	45.64	54.00	8.36	
2	2390.00	27.64	6.62	34.62	53.00	52.64	74.00	21.36	
3	2400.00	27.61	6.62	34.64	50.08	49.67	54.00	4.33	
4	2400.00	27.61	6.62	34.64	64.08	63.67	74.00	10.33	
5	2419.60	27.60	6.66	34.74	98.29	97.81	74.00	-23.81	

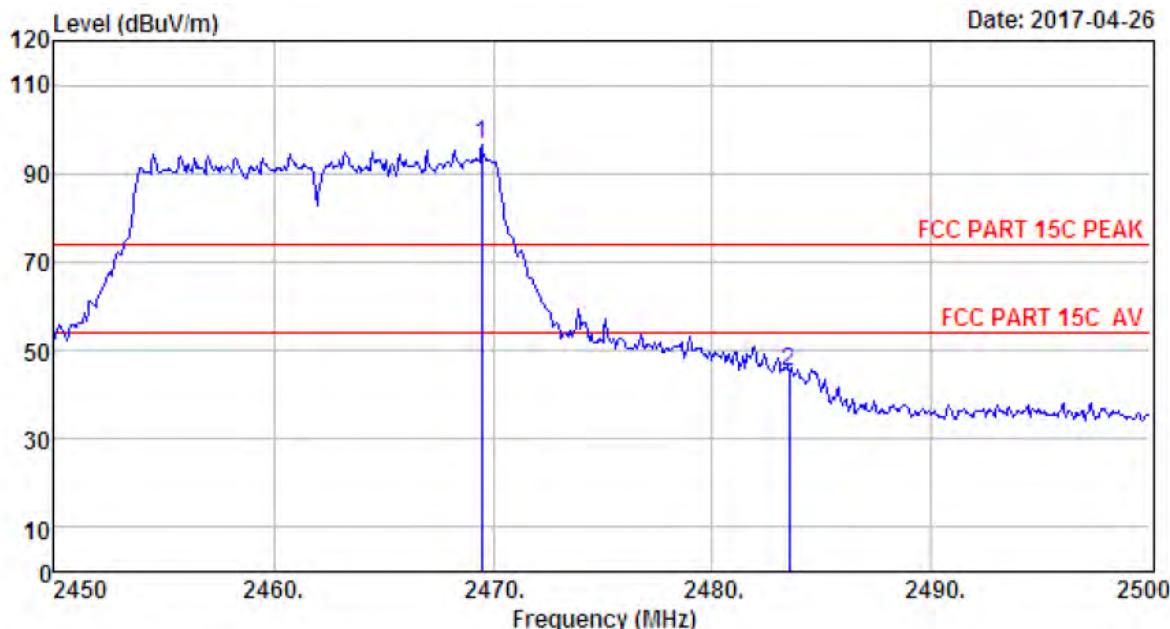
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1114  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

	Ant.	Cable	Amp	Emission					
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2379.95	27.64	6.60	34.59	44.79	44.44	74.00	29.56	Peak
2	2389.96	27.64	6.62	34.62	40.98	40.62	74.00	33.38	Peak
3	2399.97	27.61	6.62	34.64	53.36	52.95	74.00	21.05	Peak
4	2404.65	27.61	6.64	34.64	92.44	92.05	74.00	-18.05	Peak

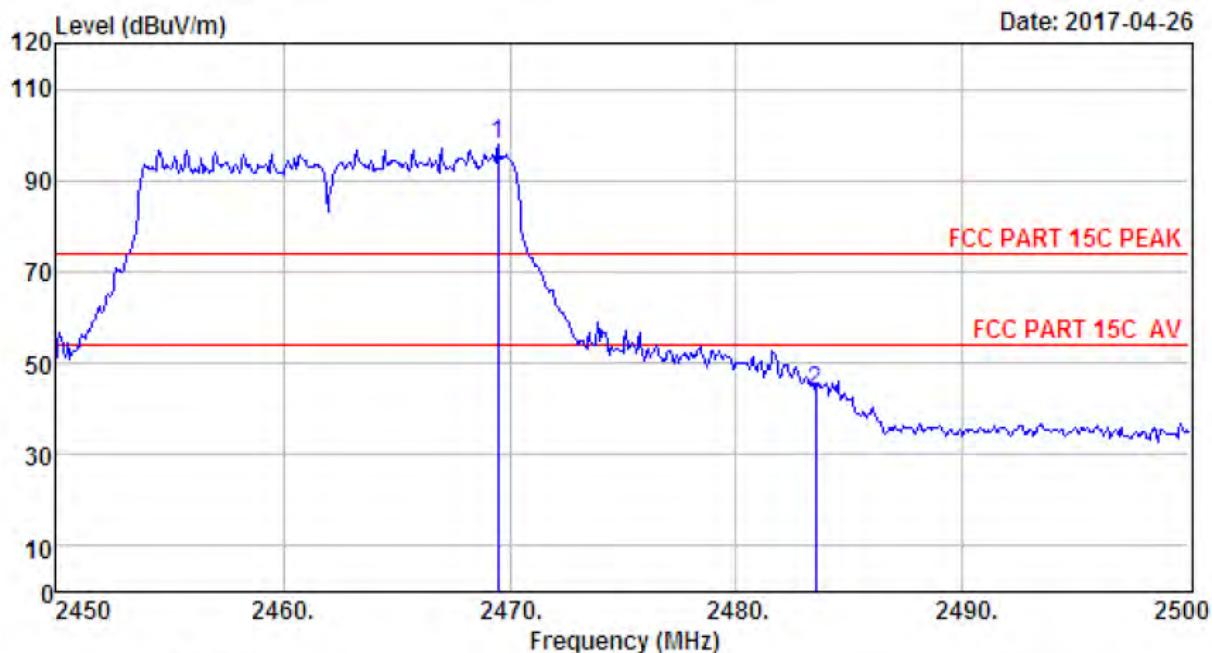
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1115  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2469.50	27.58	6.69	34.98	97.26	96.55	74.00	-22.55		Peak
2 2483.50	27.58	6.71	35.11	45.95	45.13	74.00	28.87		Peak

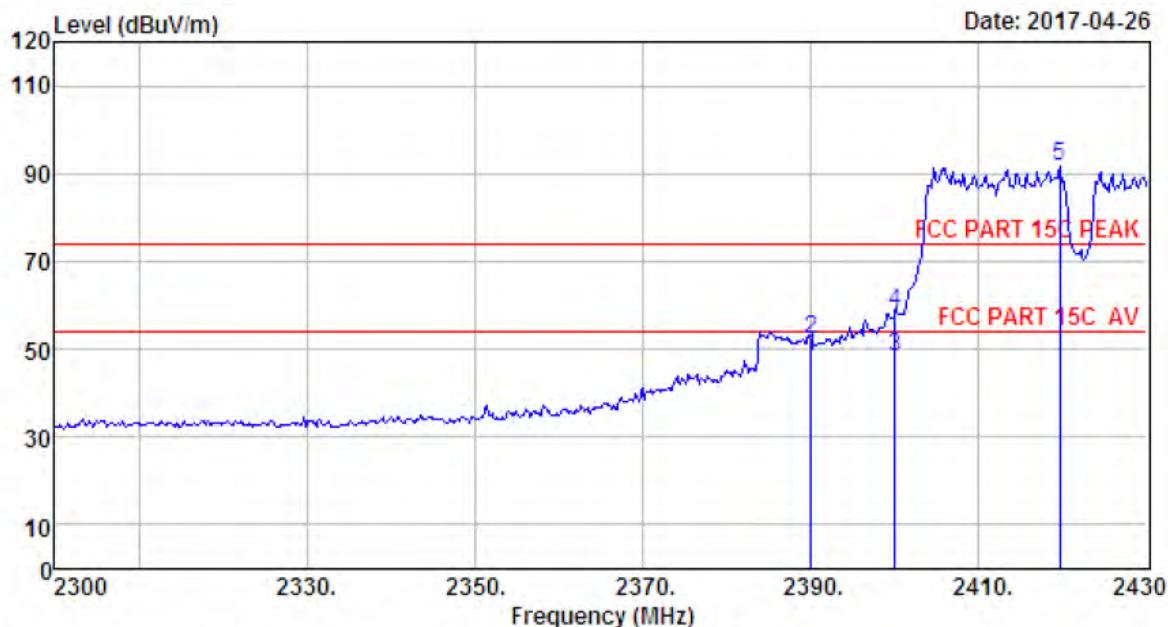
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1116  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2469.50	27.58	6.69	34.98	98.55	97.84	74.00	-23.84	Peak
2	2483.50	27.58	6.71	35.11	44.66	43.84	74.00	30.16	Peak

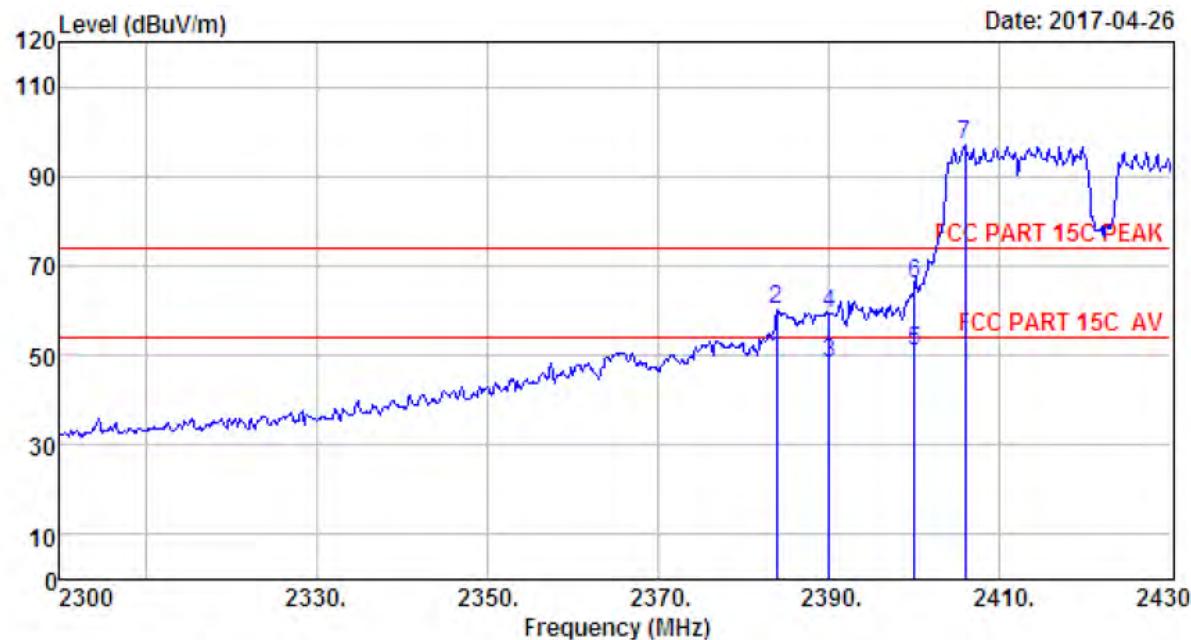
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1117  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission				Remark
					Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)		
1 2390.00	27.64	6.62	34.62	48.48	48.12	54.00	5.88	Average	
2 2390.00	27.64	6.62	34.62	52.48	52.12	74.00	21.88	Peak	
3 2400.00	27.61	6.62	34.64	48.89	48.48	54.00	5.52	Average	
4 2400.00	27.61	6.62	34.64	58.89	58.48	74.00	15.52	Peak	
5 2419.60	27.60	6.66	34.74	92.24	91.76	74.00	-17.76	Peak	

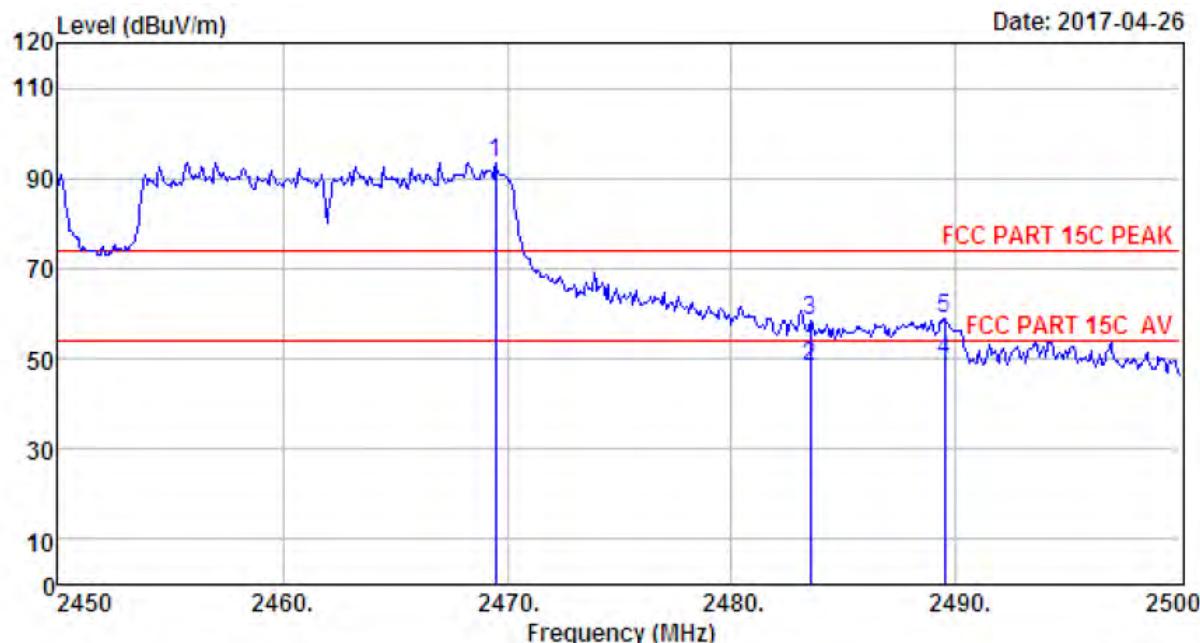
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1118  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2383.85	27.64	6.60	34.62	49.68	49.30	54.00	4.70	Average
2	2383.85	27.64	6.60	34.62	60.68	60.30	74.00	13.70	Peak
3	2390.00	27.64	6.62	34.62	48.68	48.32	54.00	5.68	Average
4	2390.00	27.64	6.62	34.62	59.68	59.32	74.00	14.68	Peak
5	2400.00	27.61	6.62	34.64	51.37	50.96	54.00	3.04	Average
6	2400.00	27.61	6.62	34.64	66.37	65.96	74.00	8.04	Peak
7	2405.95	27.61	6.64	34.64	97.41	97.02	74.00	-23.02	Peak

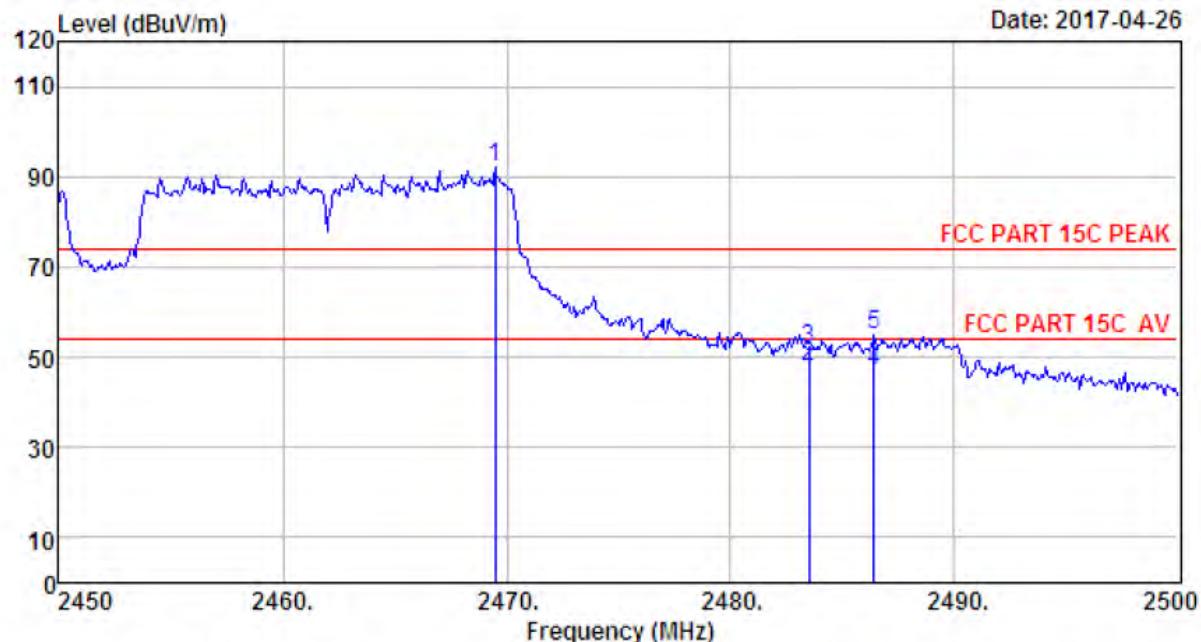
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 1119  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

		Ant.	Cable	Amp	Emission				
Freq.	Factor	Loss	Factor	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	2469.50	27.58	6.69	34.98	94.36	93.65	74.00	-19.65	Peak
2	2483.50	27.58	6.71	35.11	49.19	48.37	54.00	5.63	Average
3	2483.50	27.58	6.71	35.11	59.19	58.37	74.00	15.63	Peak
4	2489.50	27.58	6.73	35.24	50.73	49.80	54.00	4.20	Average
5	2489.50	27.58	6.73	35.24	60.00	59.07	74.00	14.93	Peak

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



Site no. : 1# 966 Chamber Data no. : 1120  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : LED TV  
 Power : AC 120V/60Hz  
 M/N : WA43FBN1001  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

Freq. (MHz)	Ant.	Cable	Amp	Emission			Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)		
1 2469.50	27.58	6.69	34.98	92.62	91.91	74.00	-17.91	Peak
2 2483.50	27.58	6.71	35.11	48.43	47.61	54.00	6.39	Average
3 2483.50	27.58	6.71	35.11	52.43	51.61	74.00	22.39	Peak
4 2486.40	27.58	6.71	35.11	47.62	46.80	54.00	7.20	Average
5 2486.40	27.58	6.71	35.11	55.85	55.03	74.00	18.97	Peak

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

## 6 6dB & 20dB Bandwidth Test

### 6.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

### 6.2 Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer device.
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set resolution bandwidth (RBW) = 100 kHz.
  - (2). Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
  - (3). Detector = Peak.
  - (4). Trace mode = max hold.
  - (5). Sweep = auto couple.
  - (6). Allow the trace to stabilize.
  - (7). Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

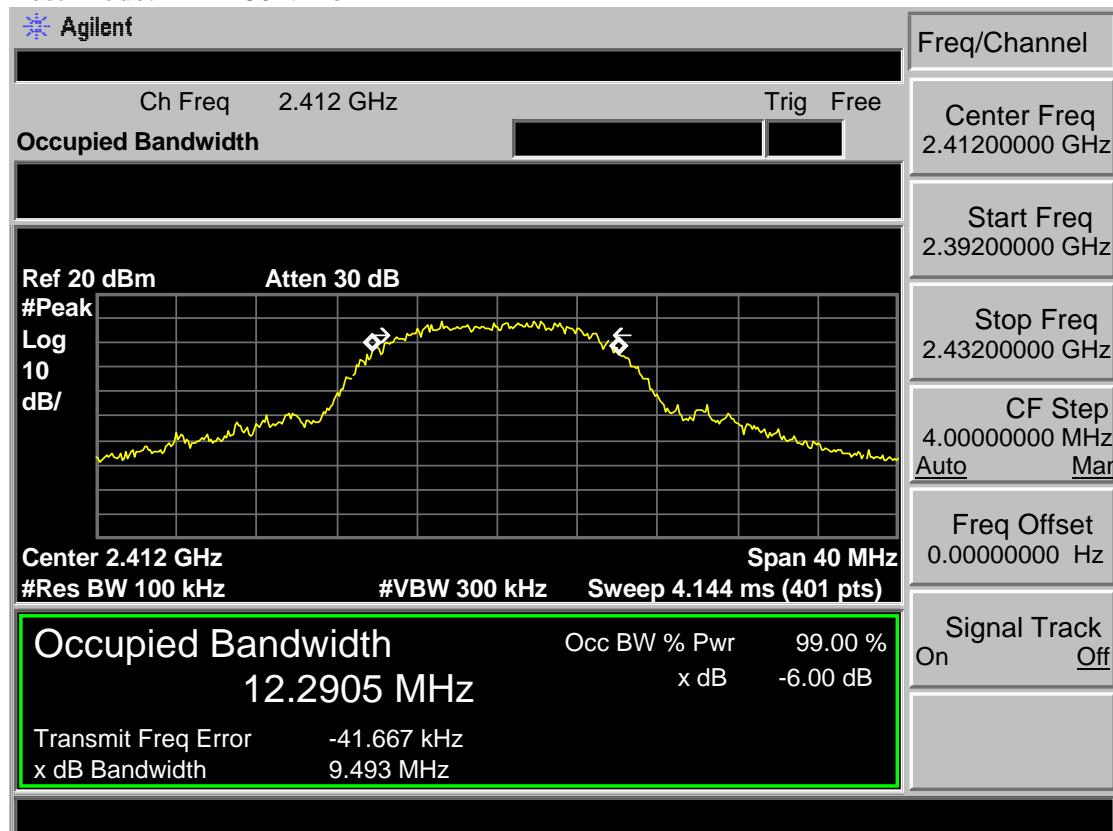
### 6.3 Test Result

EUT: LED TV			
M/N: WA43FBN1001			
Test date: 2017-04-18		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
IEEE 802.11 b	CH1	9.493	>500
	CH6	9.486	>500
	CH11	9.968	>500
IEEE 802.11 g	CH1	16.489	>500
	CH6	16.456	>500
	CH11	16.470	>500
IEEE 802.11 n HT 20	CH1	16.512	>500
	CH6	16.461	>500
	CH11	16.506	>500
IEEE 802.11 n HT 40	CH3	36.203	>500
	CH6	36.464	>500
	CH9	36.457	>500
Conclusion : PASS			

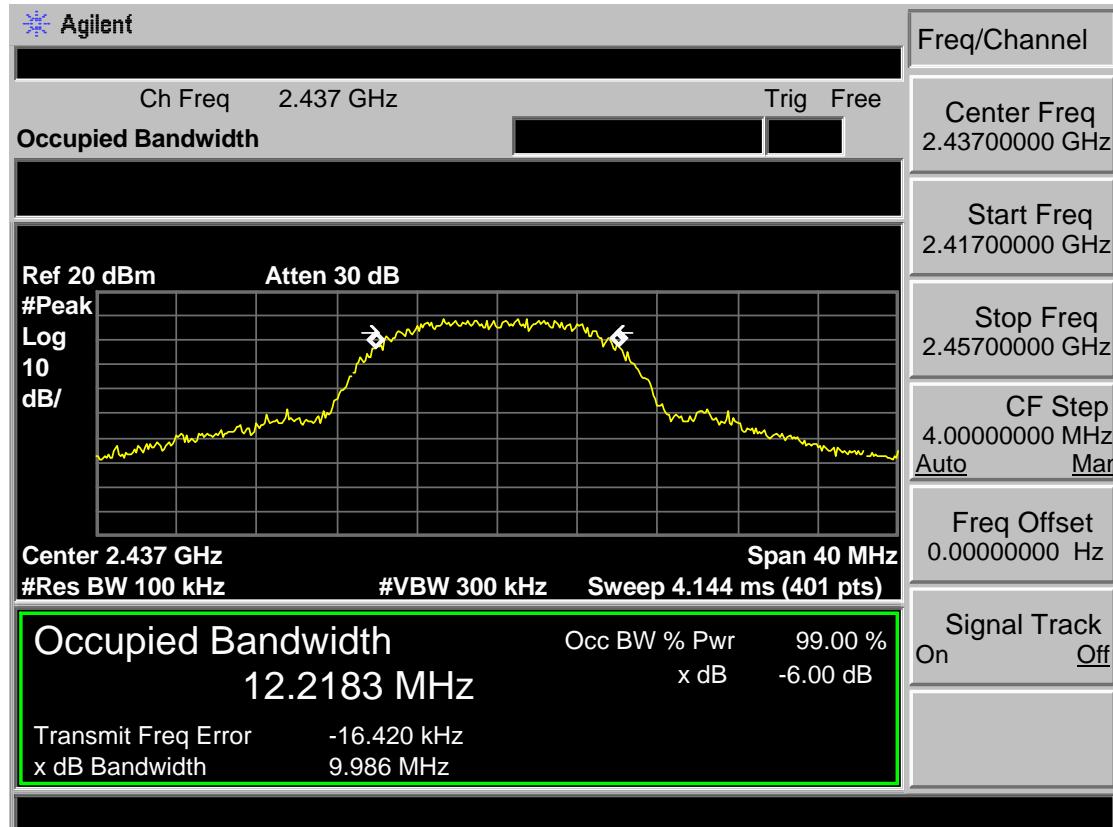
EUT: LED TV			
M/N: WA43FBN1001			
Test date: 2017-04-18		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	20dB bandwidth ( MHz )	Limit ( KHz )
IEEE 802.11 b	CH1	14.141	/
	CH6	14.101	/
	CH11	14.238	/
IEEE 802.11 g	CH1	18.644	/
	CH6	18.720	/
	CH11	18.510	/
IEEE 802.11 n HT 20	CH1	18.972	/
	CH6	18.394	/
	CH11	19.009	/
IEEE 802.11 n HT 40	CH3	41.207	/
	CH6	40.607	/
	CH9	40.968	/
Conclusion : PASS			

## 6.4 6dB Test Data

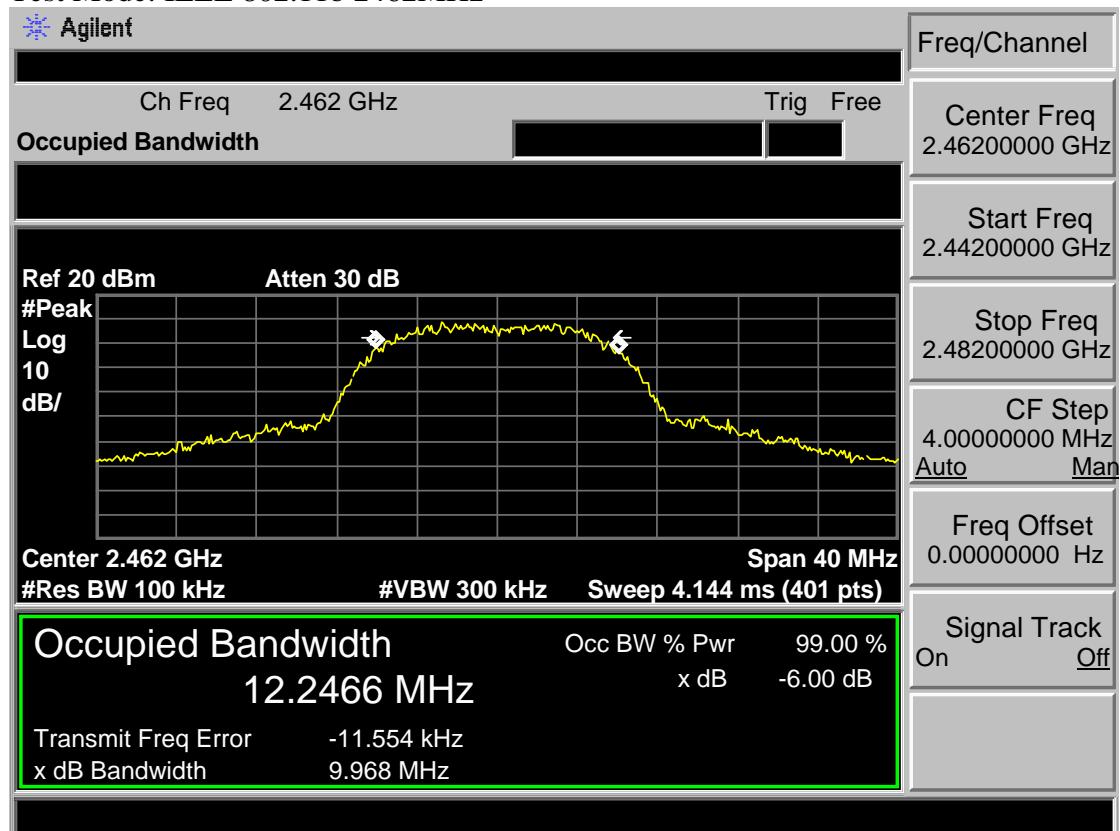
Test Mode: IEEE 802.11b 2412MHz



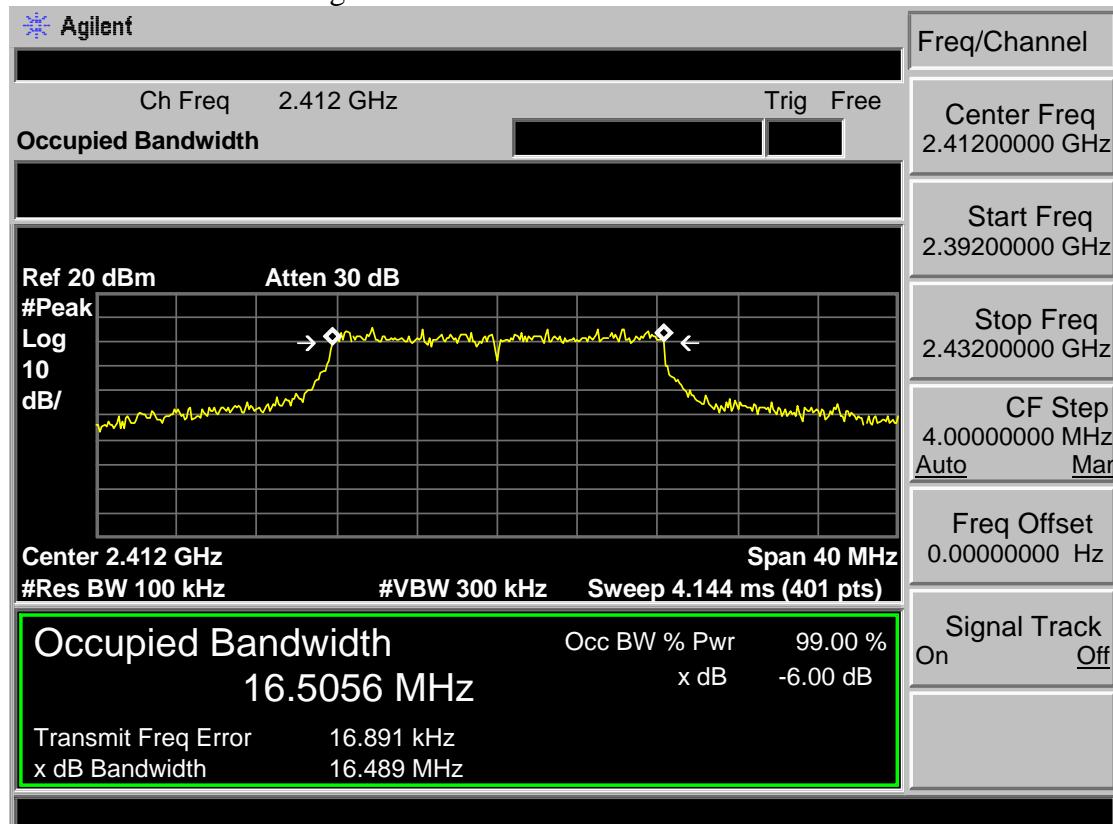
Test Mode: IEEE 802.11b 2437MHz



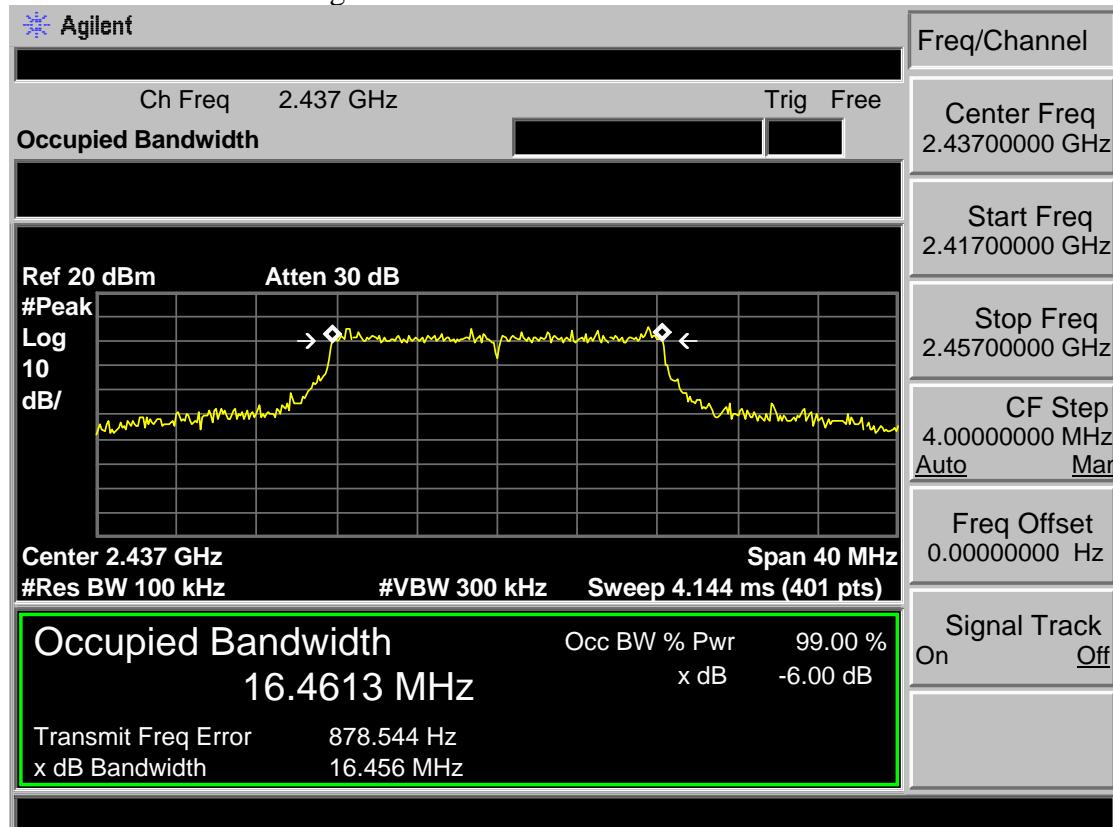
Test Mode: IEEE 802.11b 2462MHz



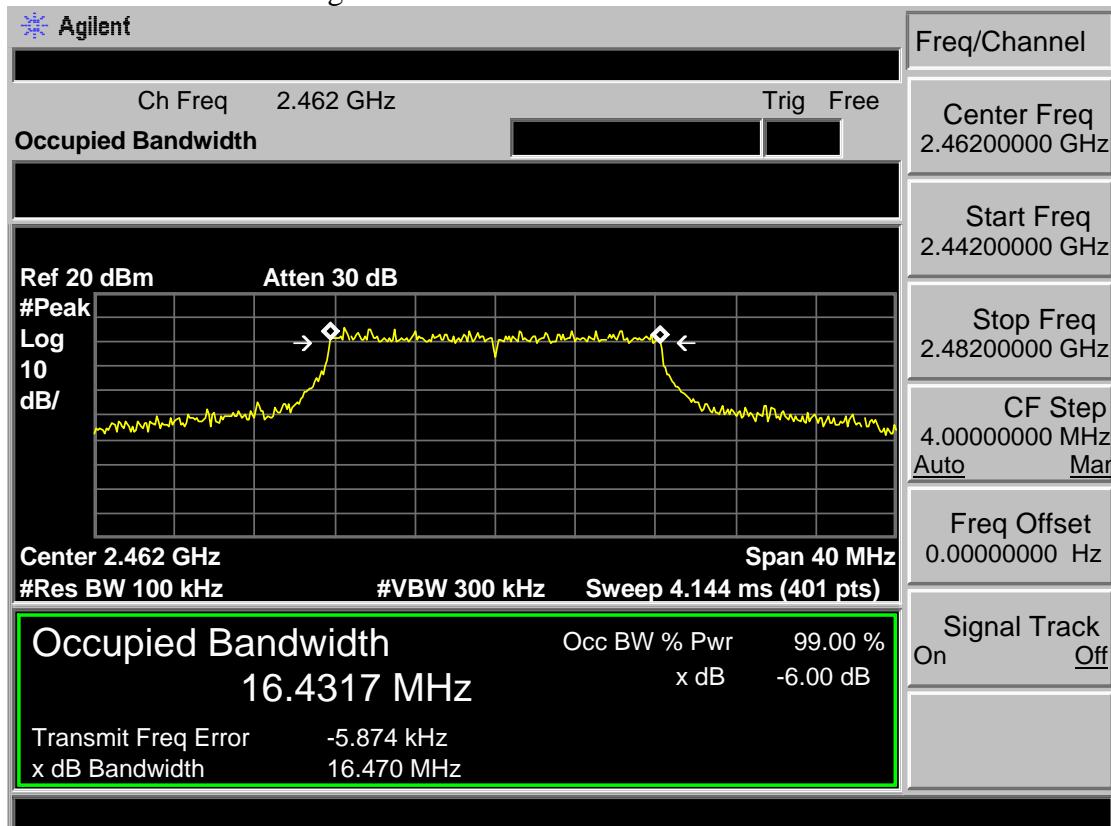
## Test Mode: IEEE 802.11g 2412MHz



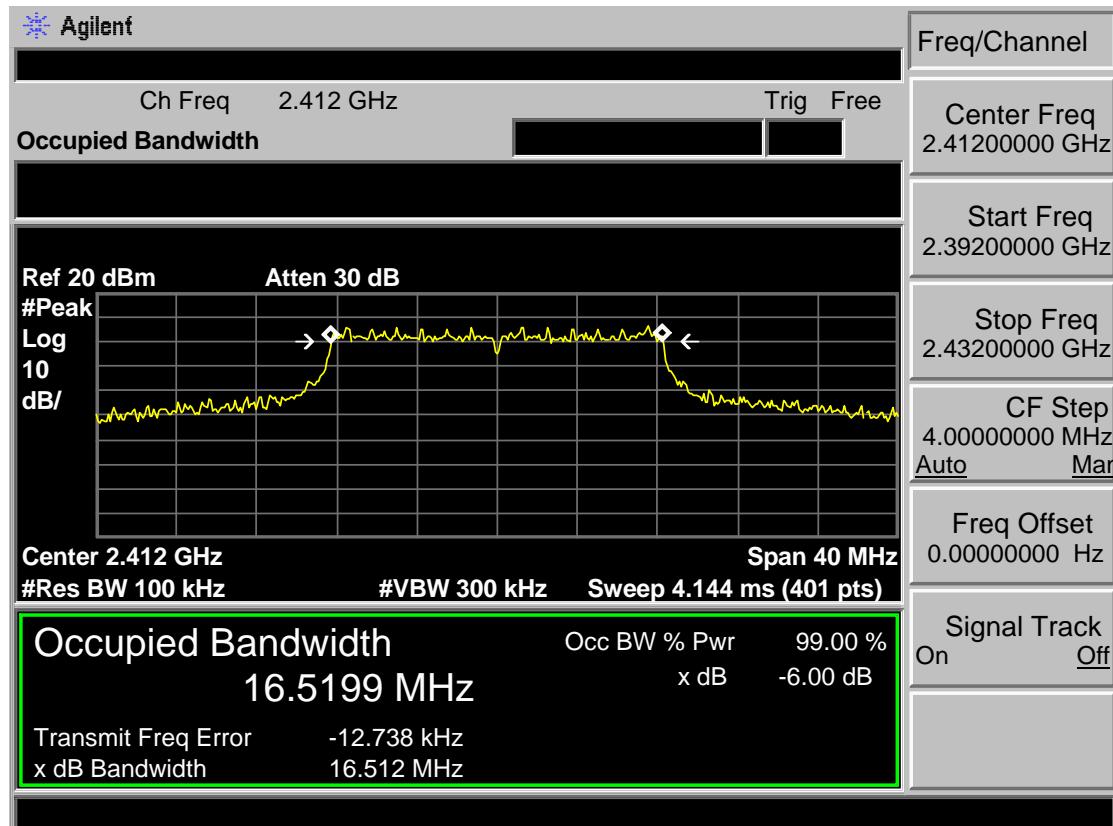
## Test Mode: IEEE 802.11g 2437MHz



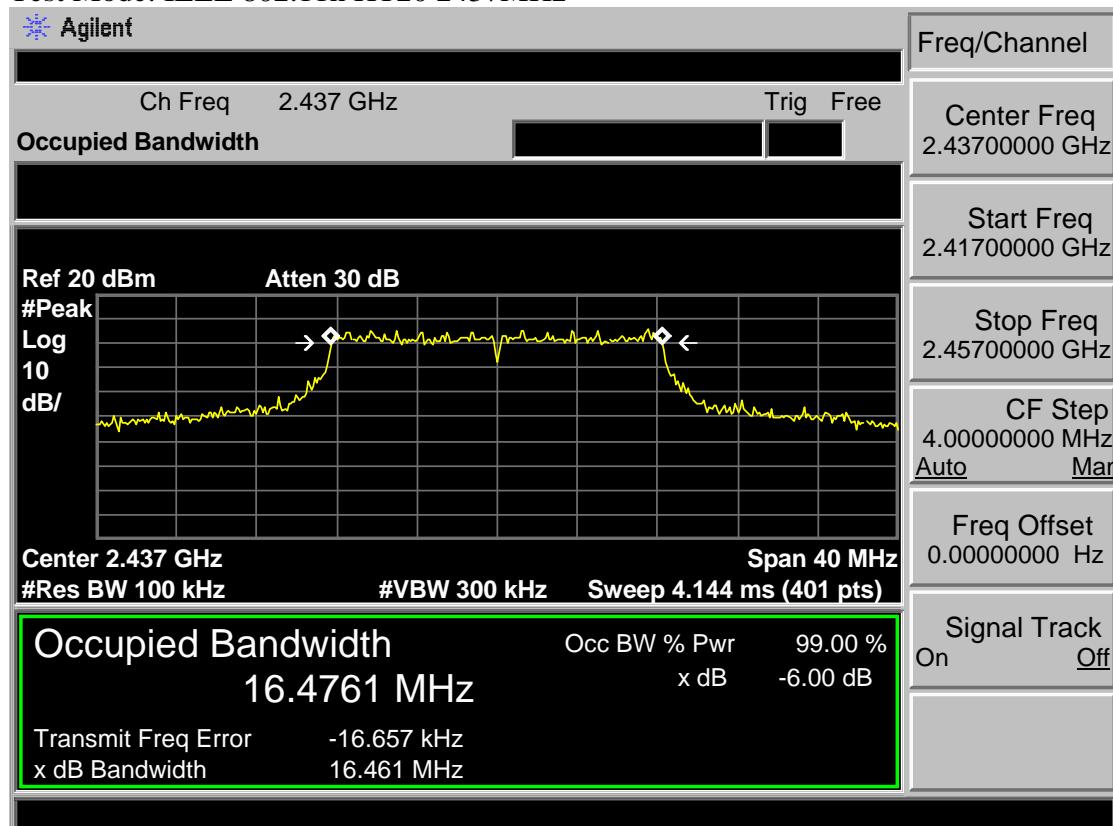
## Test Mode: IEEE 802.11g 2462MHz



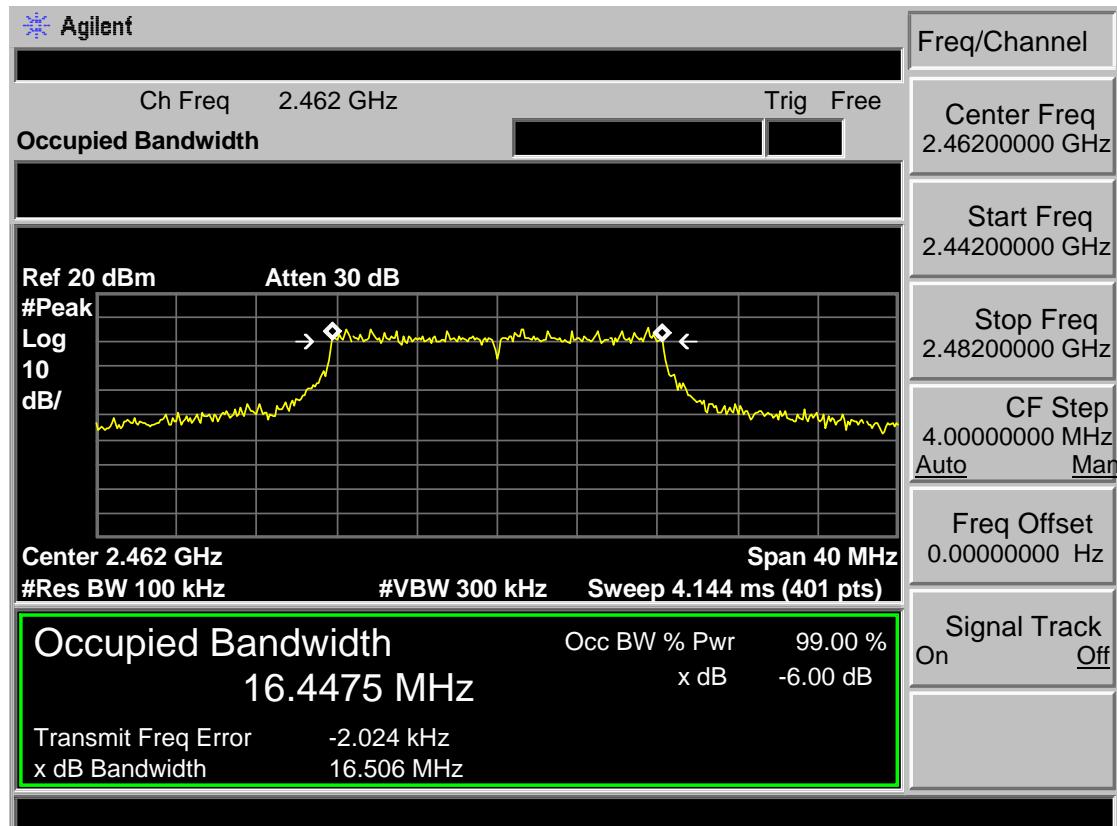
## Test Mode: IEEE 802.11n HT20 2412MHz



## Test Mode: IEEE 802.11n HT20 2437MHz



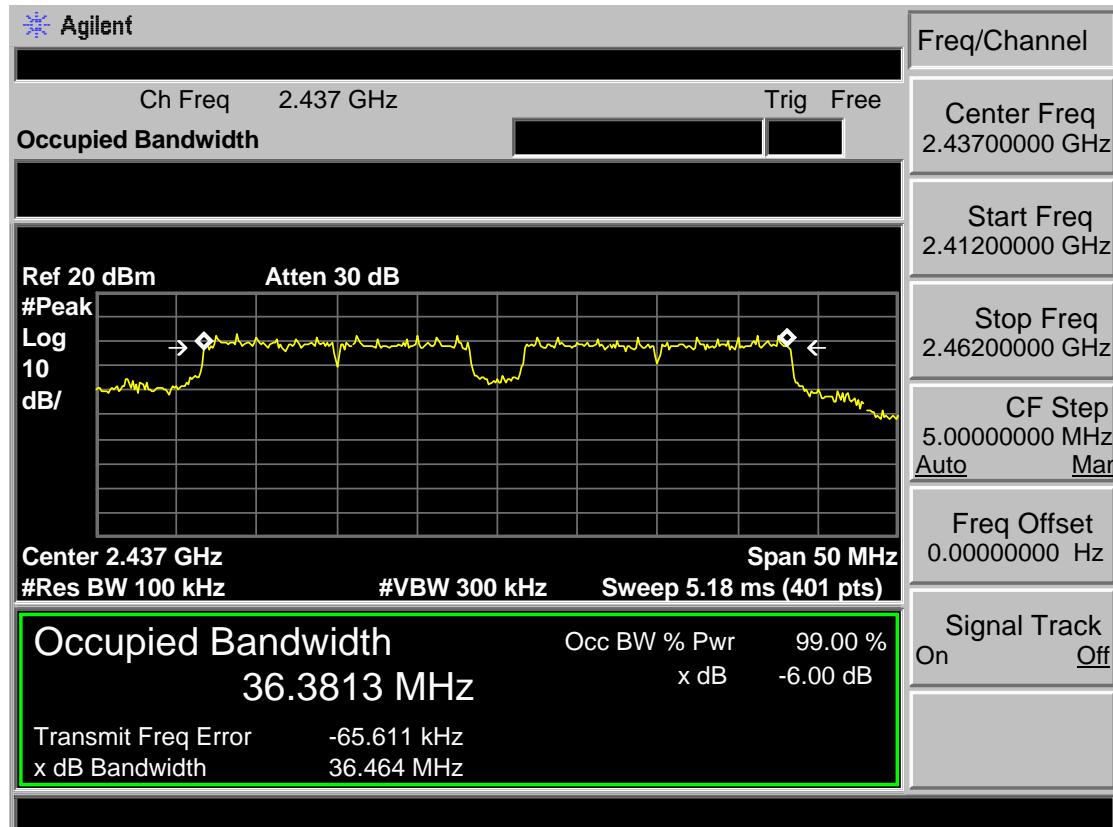
## Test Mode: IEEE 802.11n HT20 2462MHz



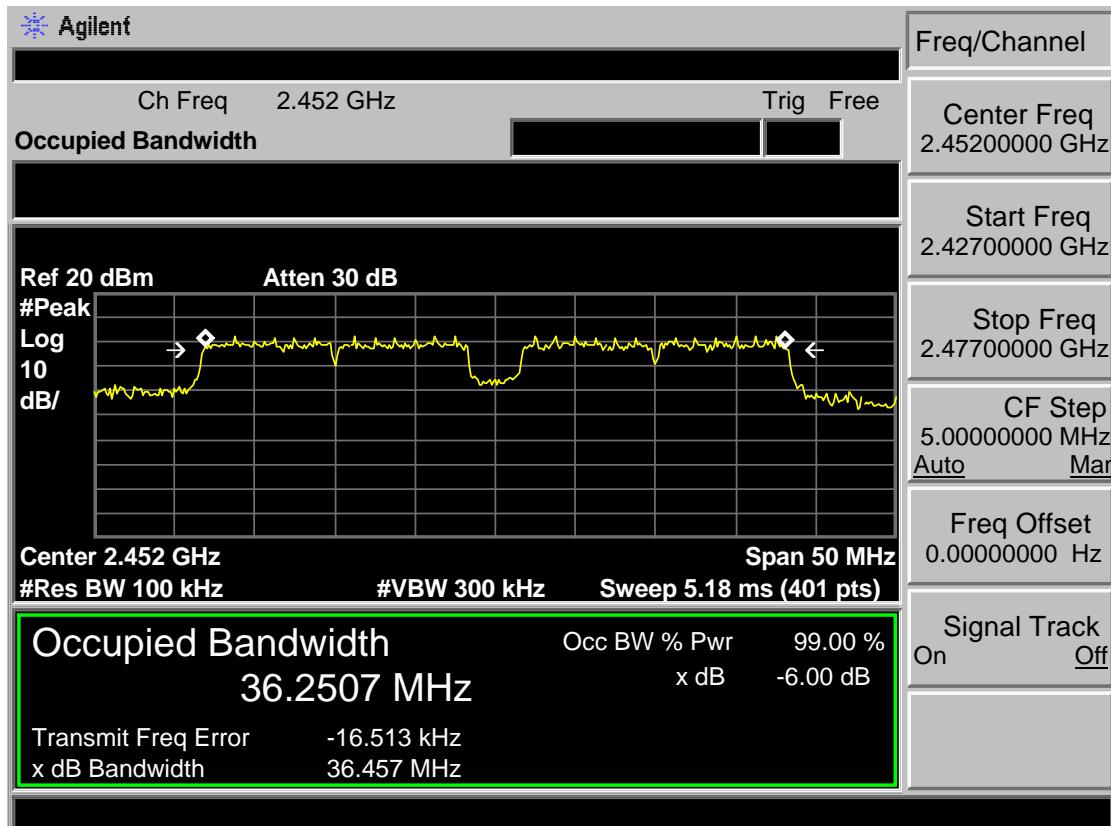
## Test Mode: IEEE 802.11n HT40 2422MHz



## Test Mode: IEEE 802.11n HT40 2437MHz

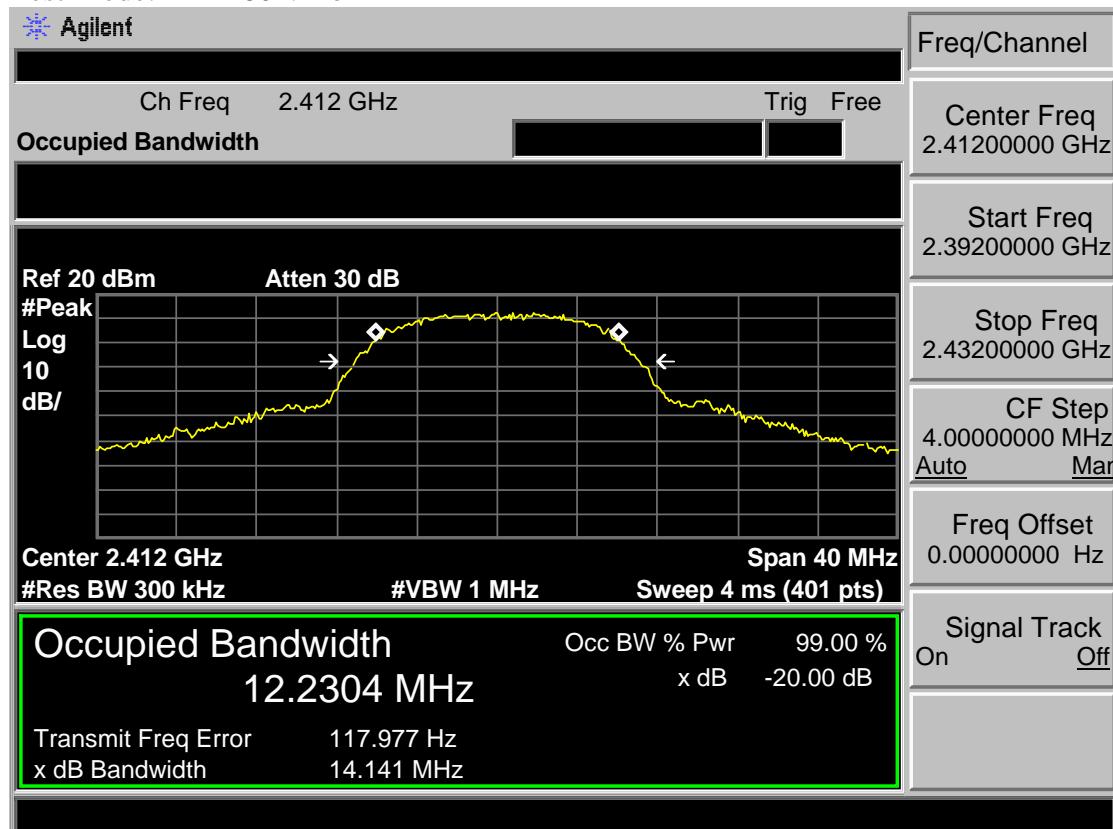


## Test Mode: IEEE 802.11n HT40 2452MHz

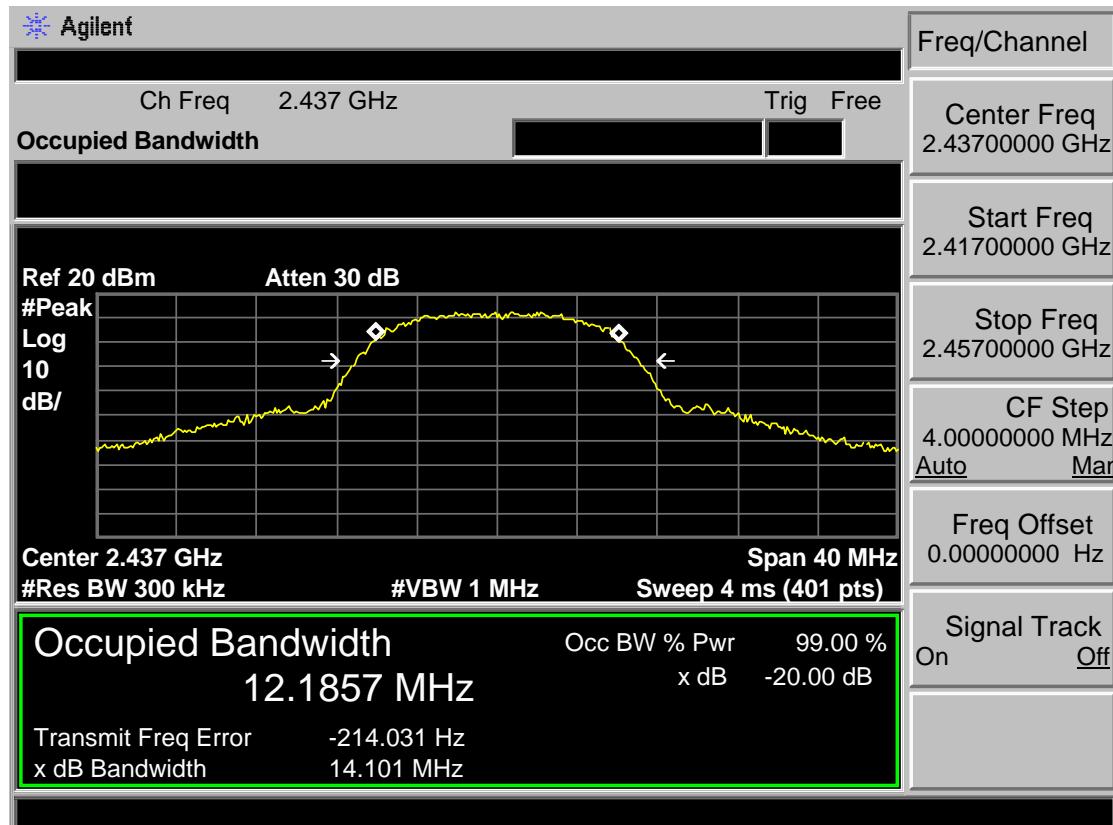


## 6.5 20dB Test Data

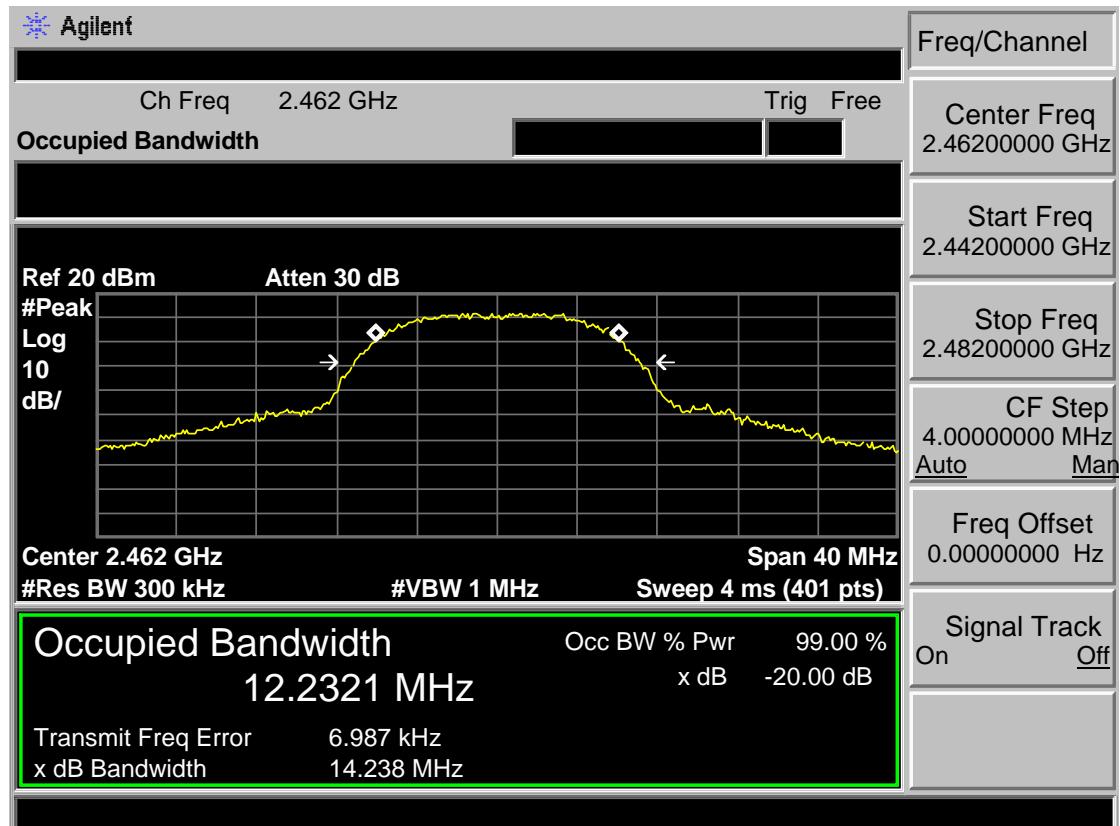
Test Mode: IEEE 802.11b 2412MHz



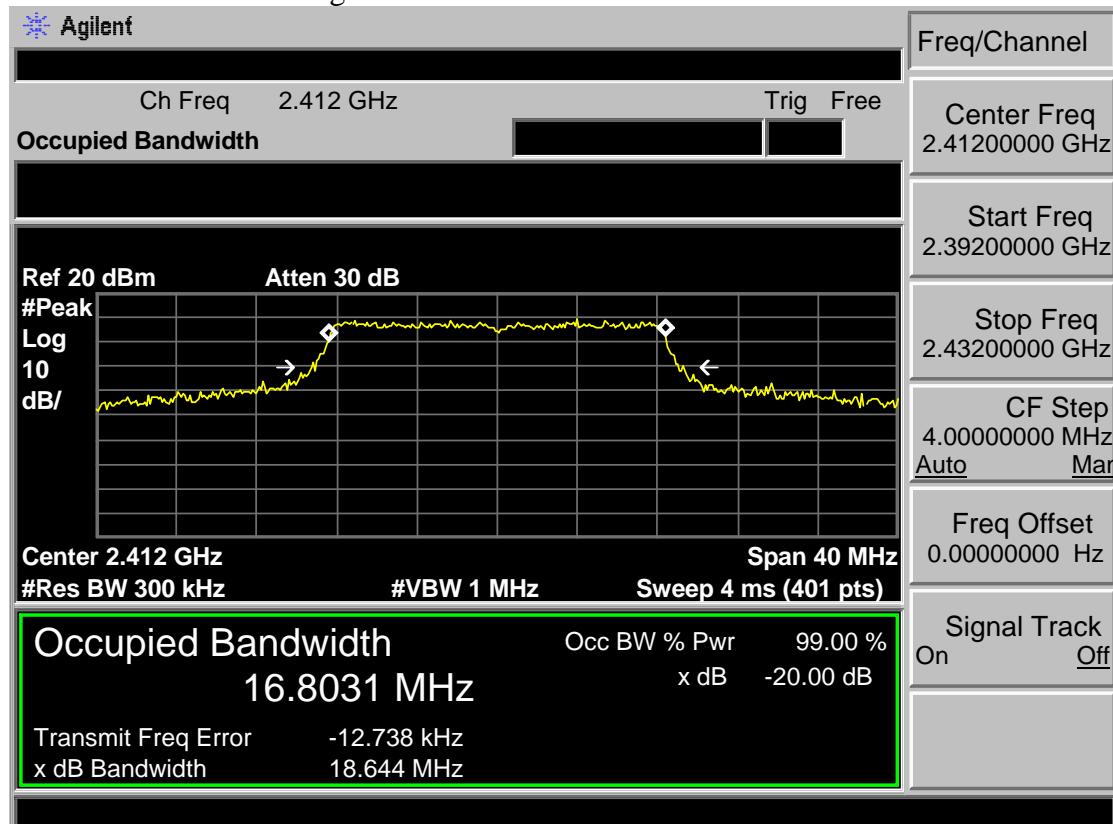
Test Mode: IEEE 802.11b 2437MHz



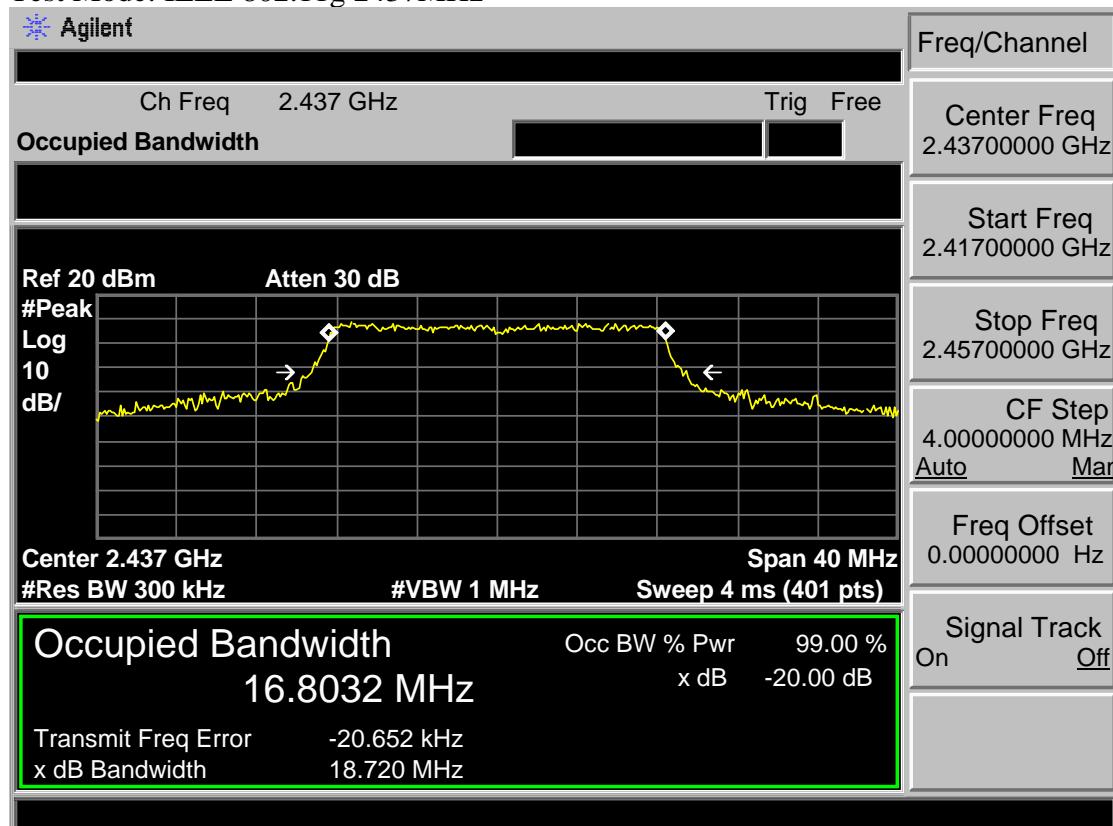
## Test Mode: IEEE 802.11b 2462MHz



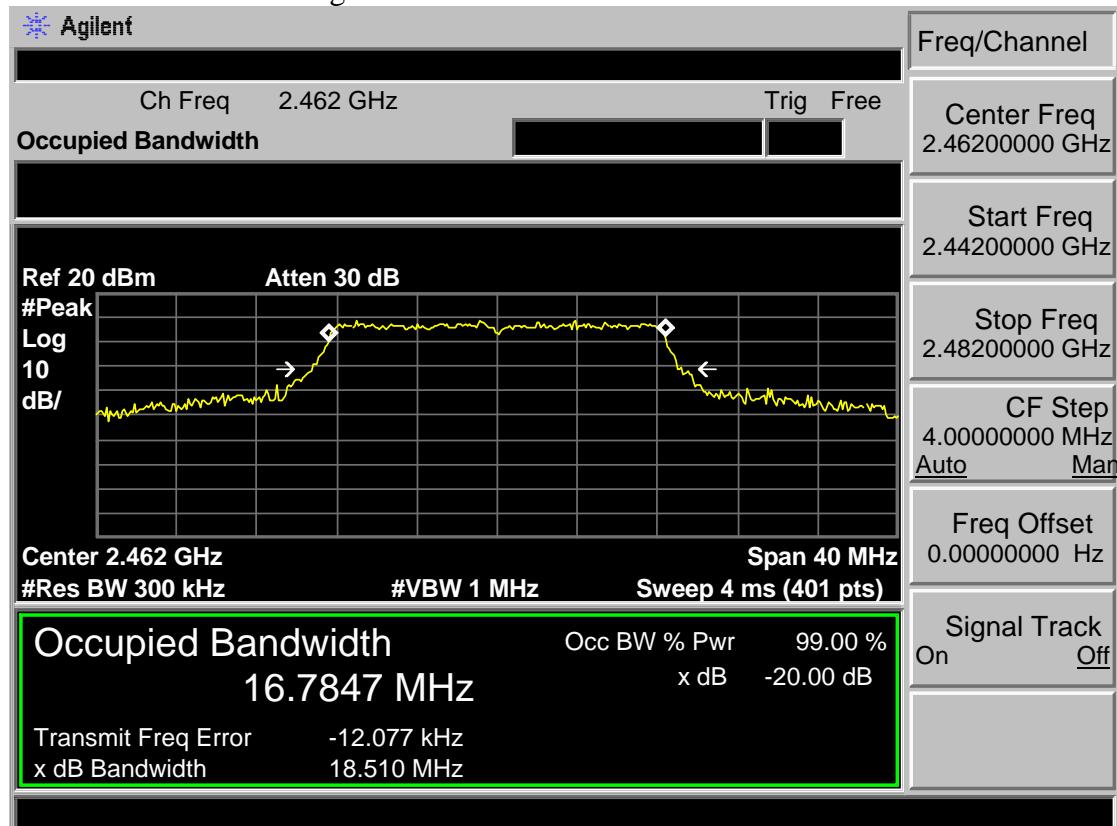
## Test Mode: IEEE 802.11g 2412MHz



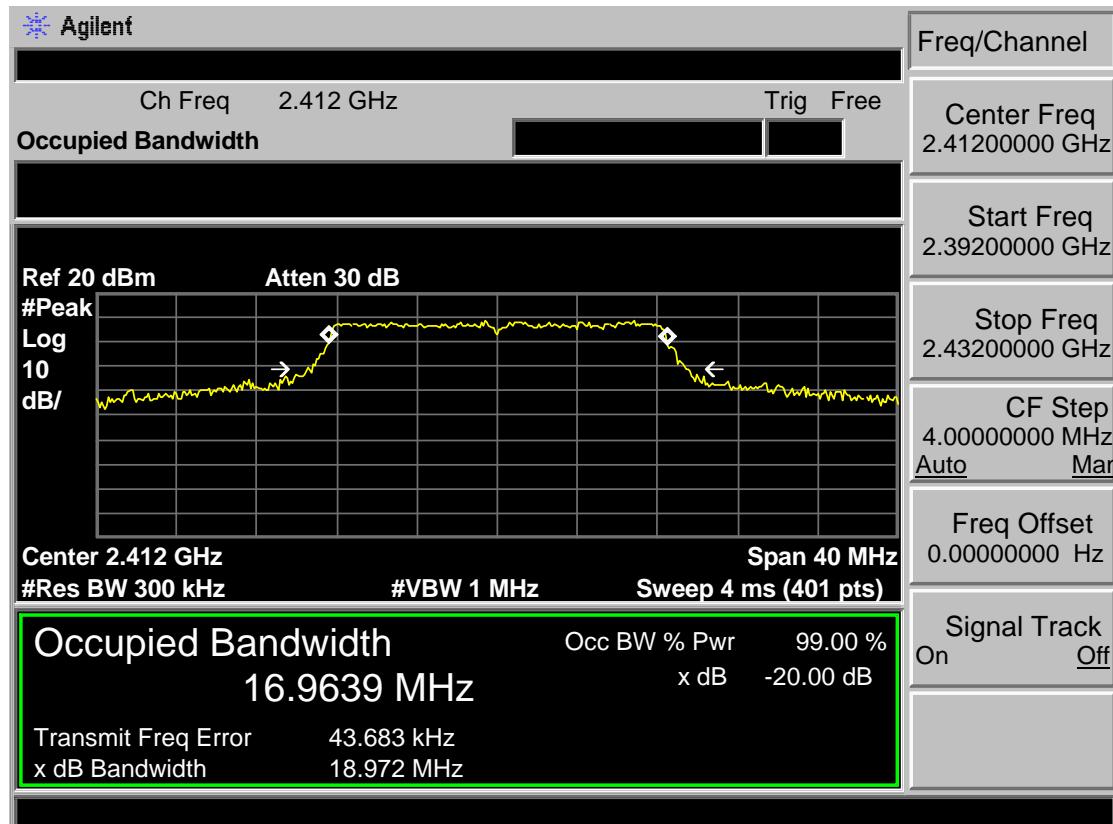
## Test Mode: IEEE 802.11g 2437MHz



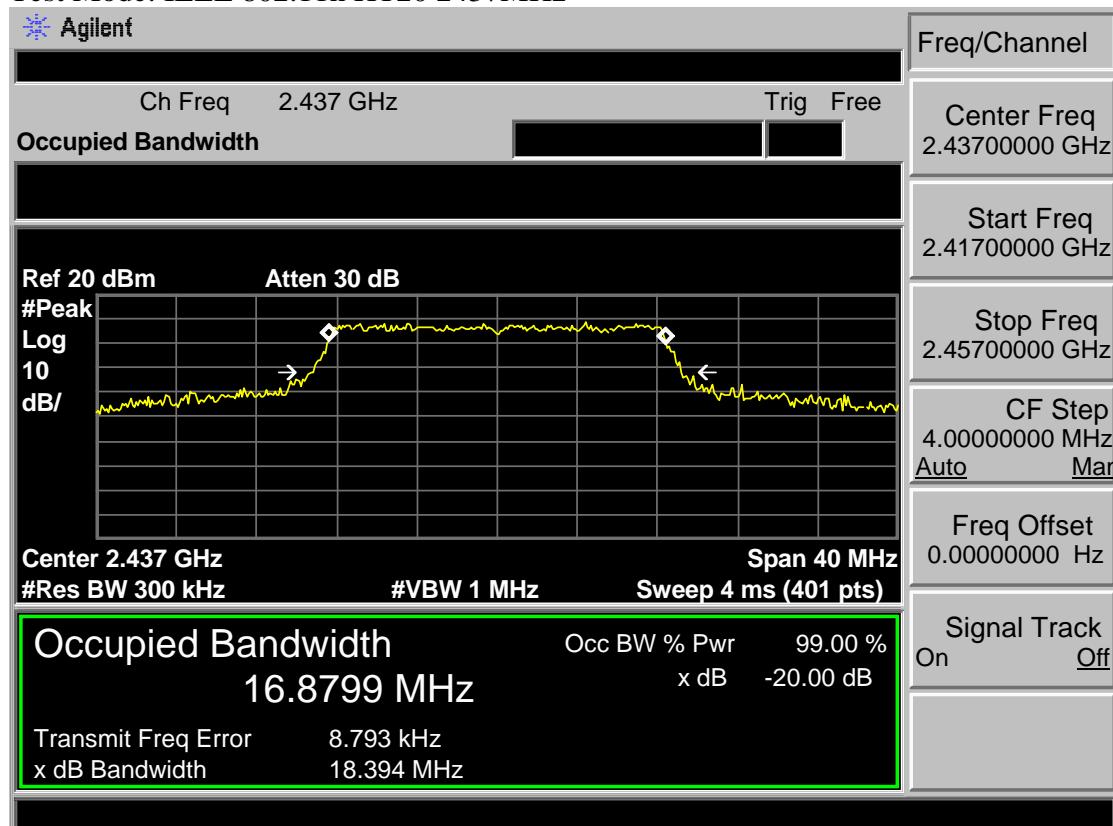
## Test Mode: IEEE 802.11g 2462MHz



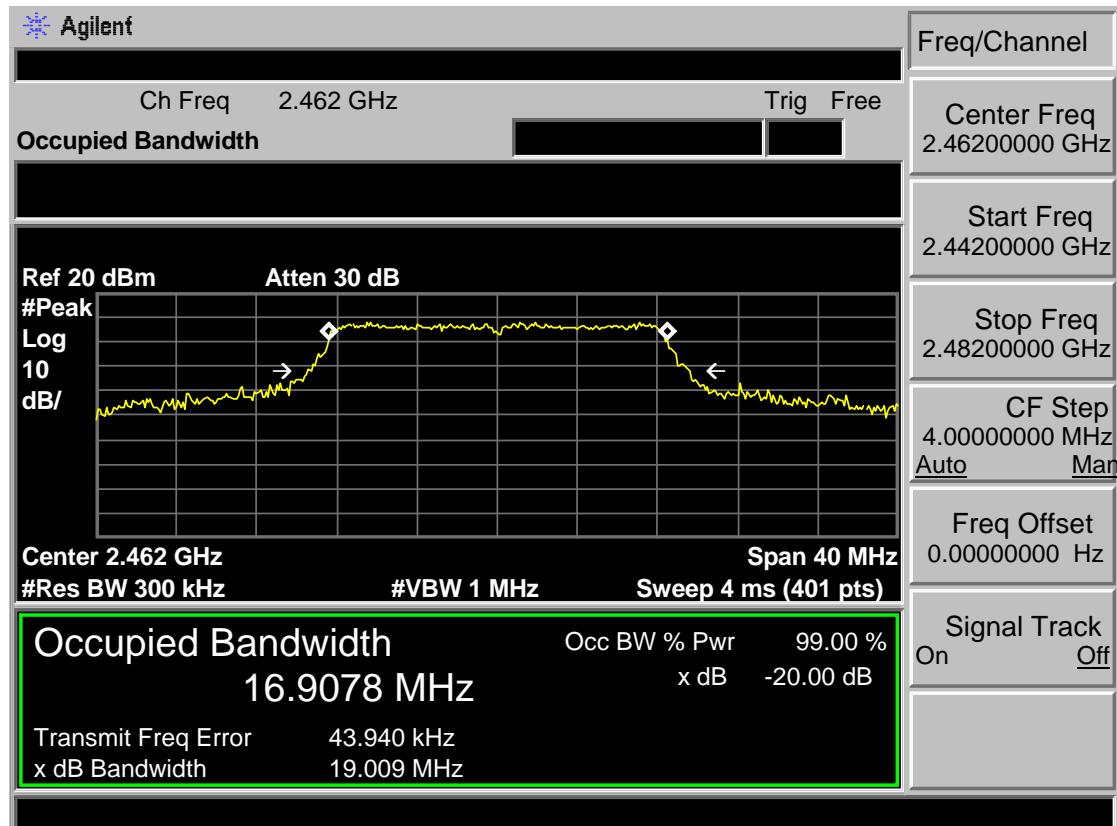
## Test Mode: IEEE 802.11n HT20 2412MHz



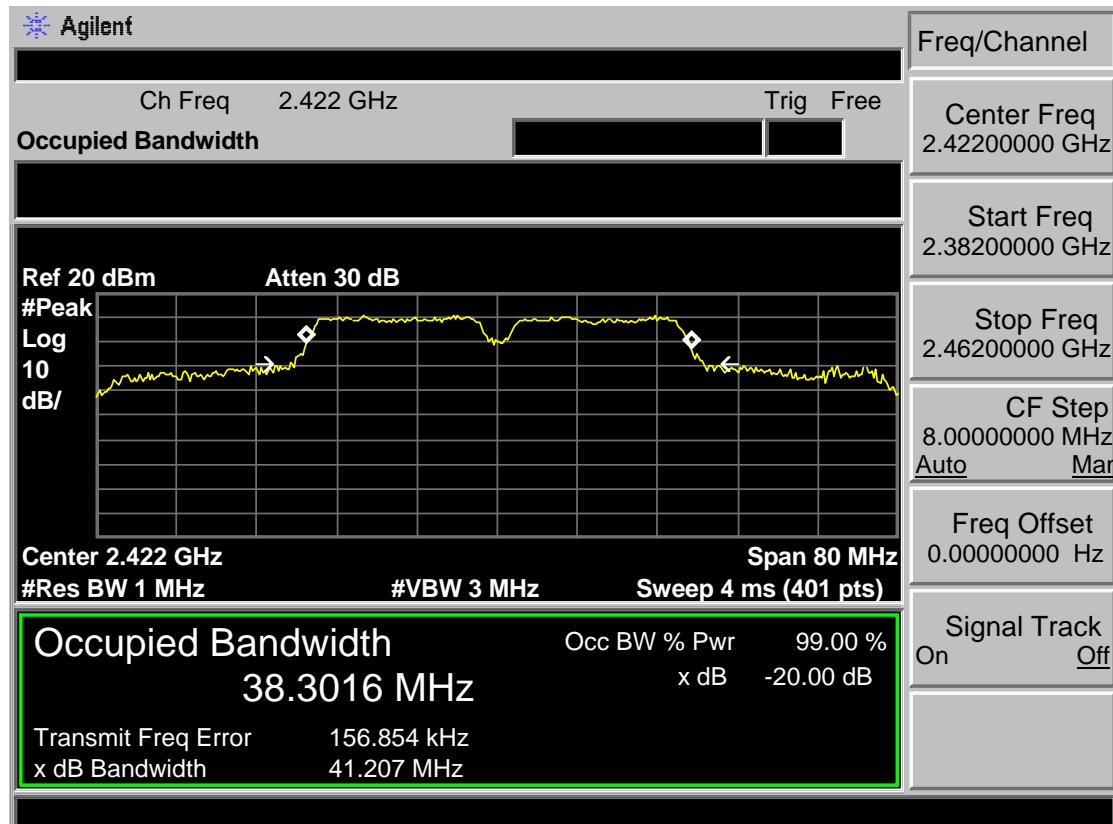
## Test Mode: IEEE 802.11n HT20 2437MHz



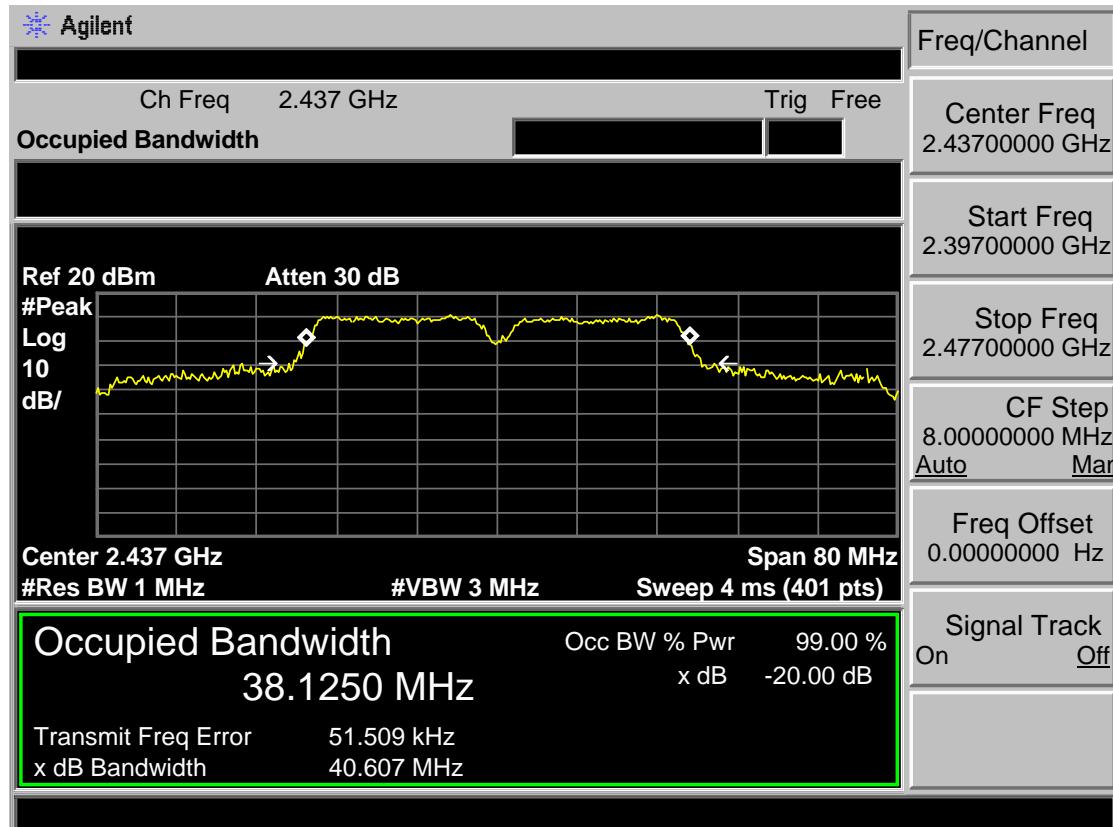
## Test Mode: IEEE 802.11n HT20 2462MHz



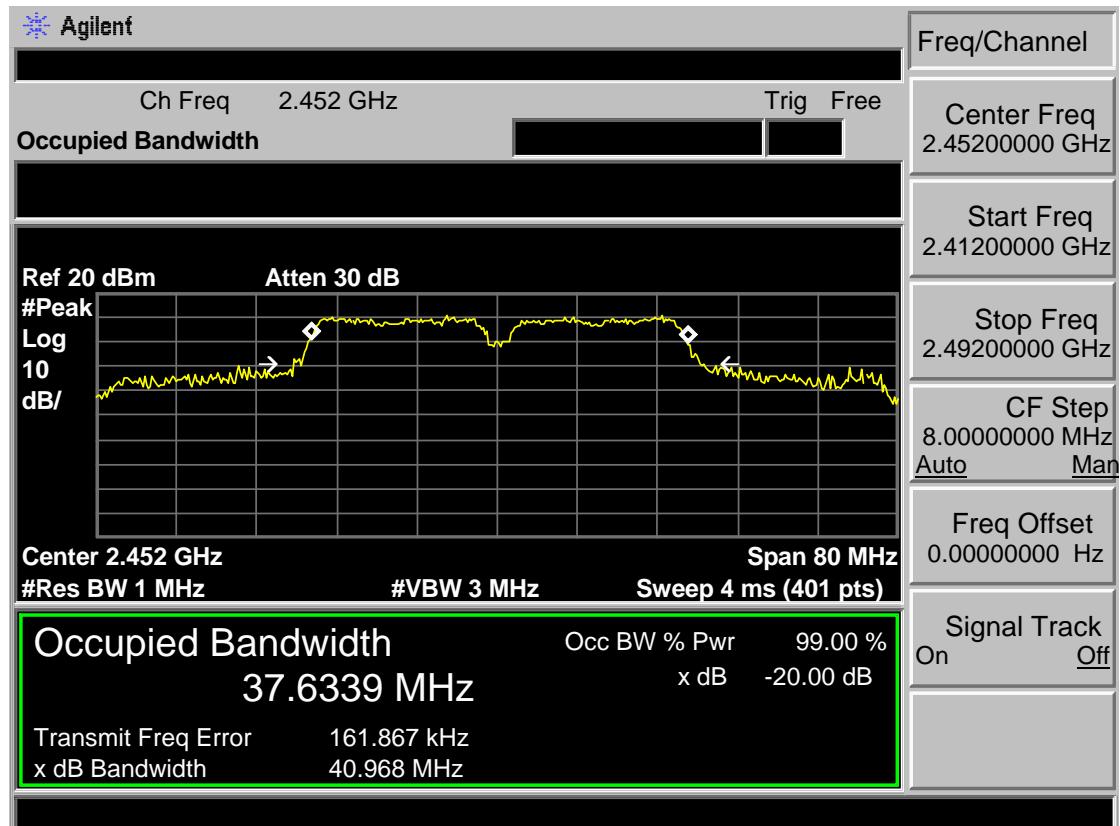
## Test Mode: IEEE 802.11n HT40 2422MHz



## Test Mode: IEEE 802.11n HT40 2437MHz



## Test Mode: IEEE 802.11n HT40 2452MHz



## 7 OUTPUT POWER TEST

### 7.1 Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm)

### 7.2 Test Procedure

#### 7.3 Test Procedure

- 1, Connected the EUT's antenna port to spectrum analyzer device.
- 2, Follow the test procedure as described in KDB 558074
  - (1)Set span to at least 1.5 times the OBW.
  - (2)Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
  - (3)Set VBW  $\geq$  3 x RBW.
  - (4)Number of points in sweep  $\geq$   $2 \times$  span / RBW. (This gives bin-to-bin spacing  $\leq$  RBW/2, so that narrowband signals are not lost between frequency bins.)
  - (4)Sweep time = auto.
  - (5)Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
  - (6)If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq$  98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
  - (7)Trace average at least 100 traces in power averaging (i.e., RMS) mode.
  - (8)Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

## 7.4 Test Result

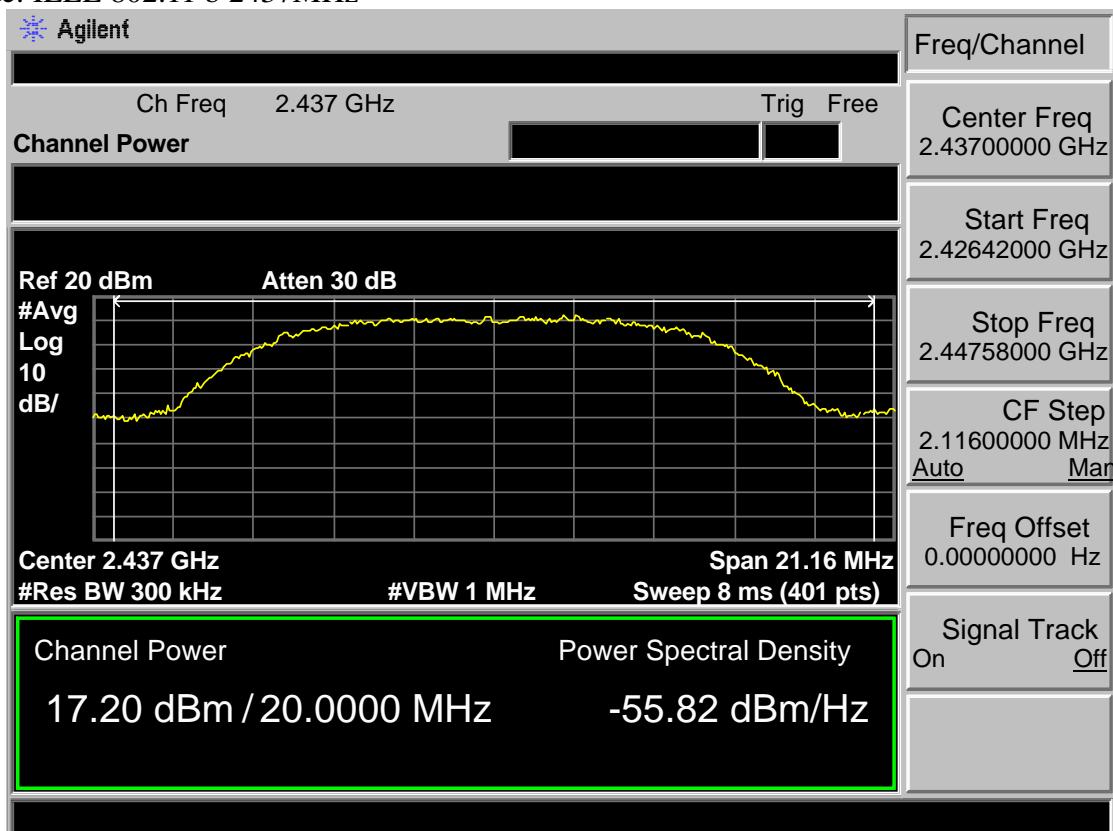
EUT: LED TV			
M/N: WA43FBN1001			
Test date: 2017-04-18	Tested by: Tony.Tang		Test site: RF Site
Pass			
Test Mode	CH	Conducted Power (dBm)	Limit (dBm)
IEEE 802.11 b	CH1	16.73	30
	CH6	17.20	30
	CH11	17.43	30
IEEE 802.11 g	CH1	12.90	30
	CH6	13.73	30
	CH11	13.45	30
IEEE 802.11 n HT 20	CH1	13.38	30
	CH6	13.40	30
	CH11	12.75	30
IEEE 802.11 n HT 40	CH3	12.55	30
	CH6	12.13	30
	CH9	11.92	30
Conclusion : PASS			

## 7.5 Test Data

Test Mode: IEEE 802.11 b 2412MHz



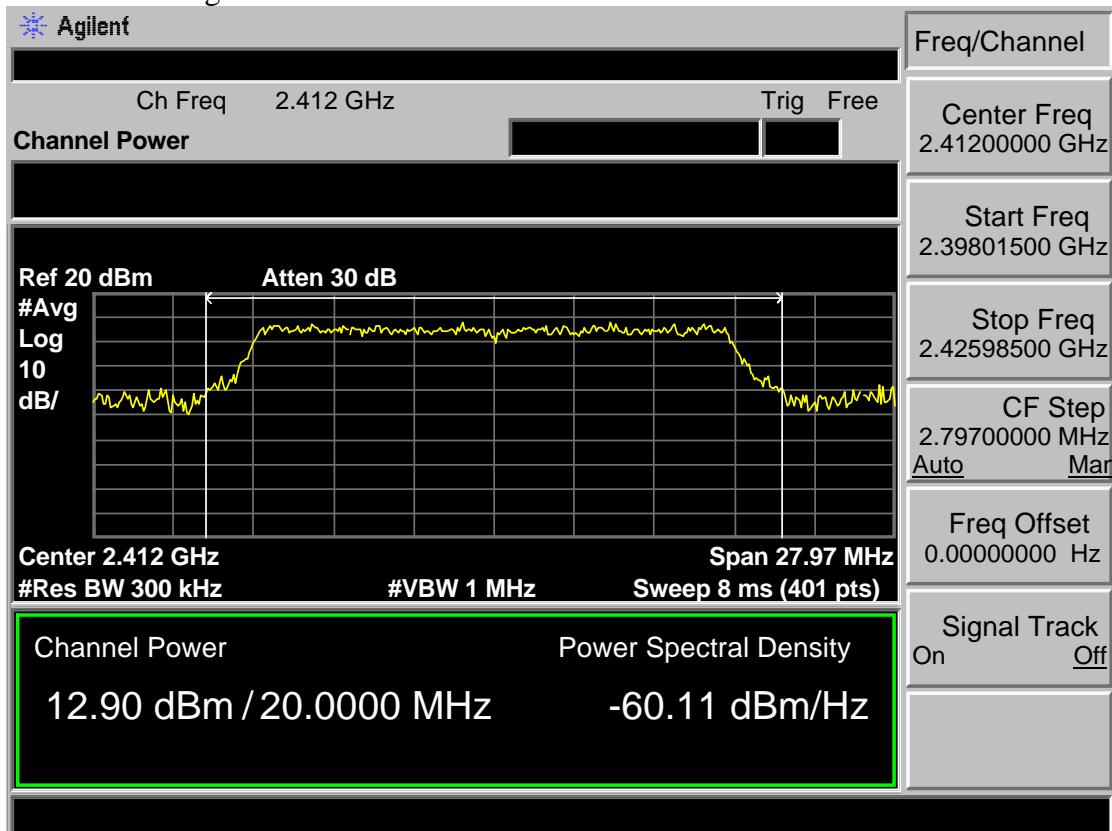
Test Mode: IEEE 802.11 b 2437MHz



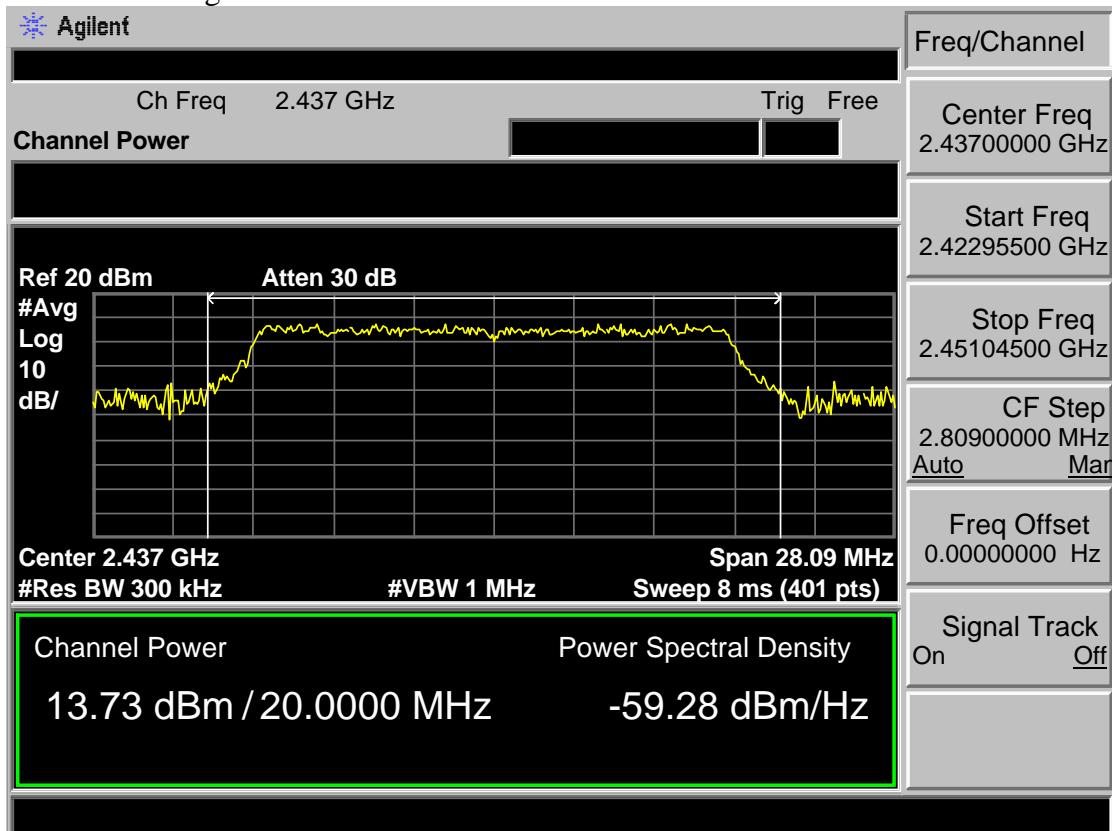
Test Mode: IEEE 802.11 b 2462MHz



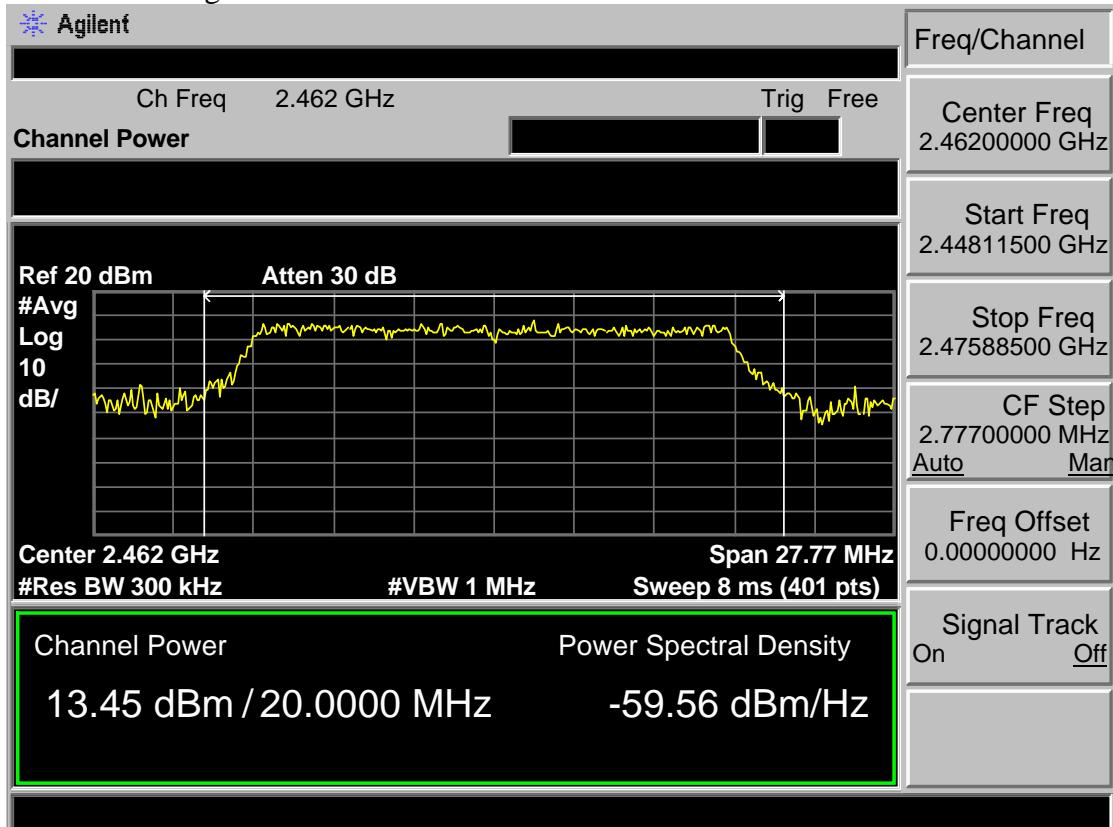
Test Mode: IEEE 802.11 g 2412MHz



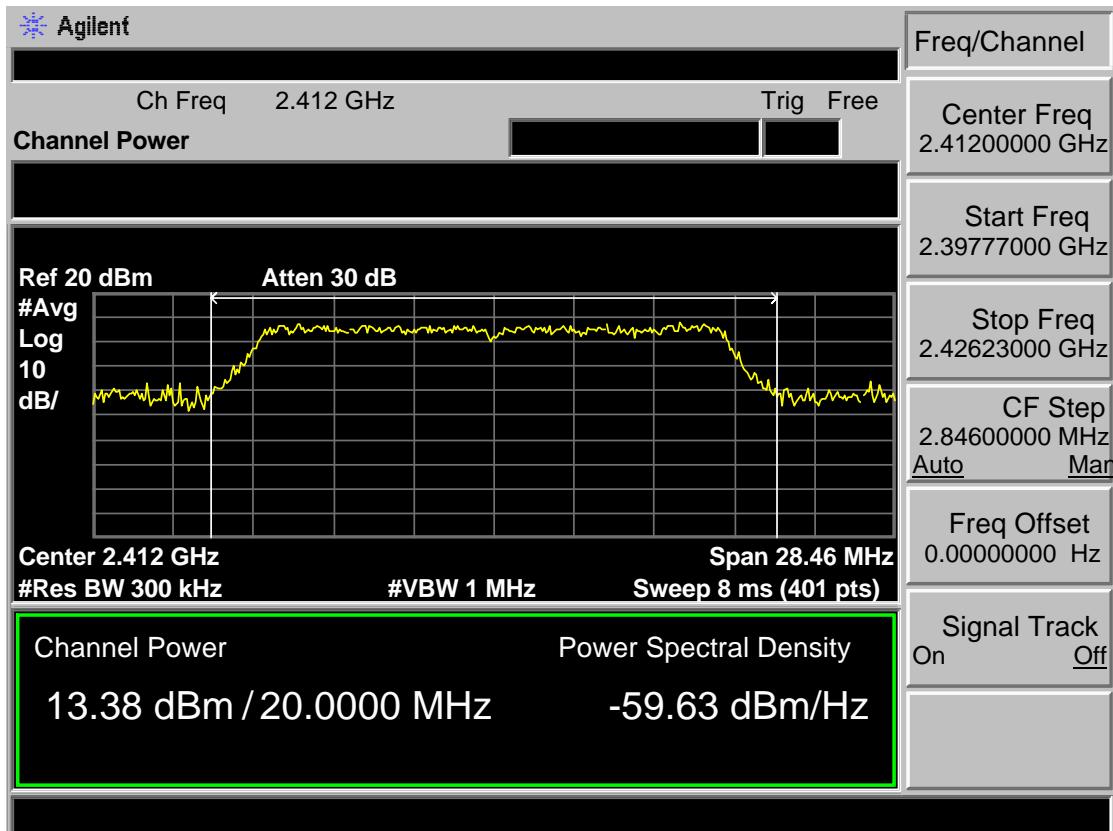
Test Mode: IEEE 802.11 g 2437MHz



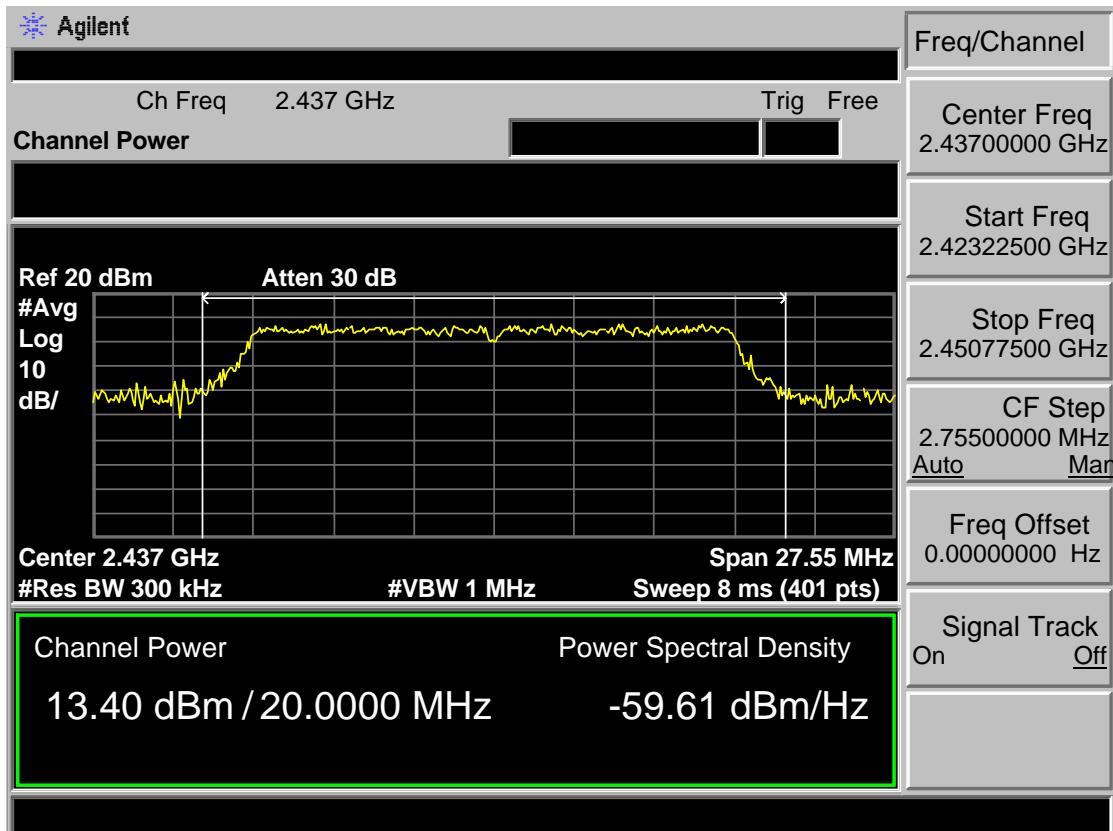
Test Mode: IEEE 802.11 g 2462MHz



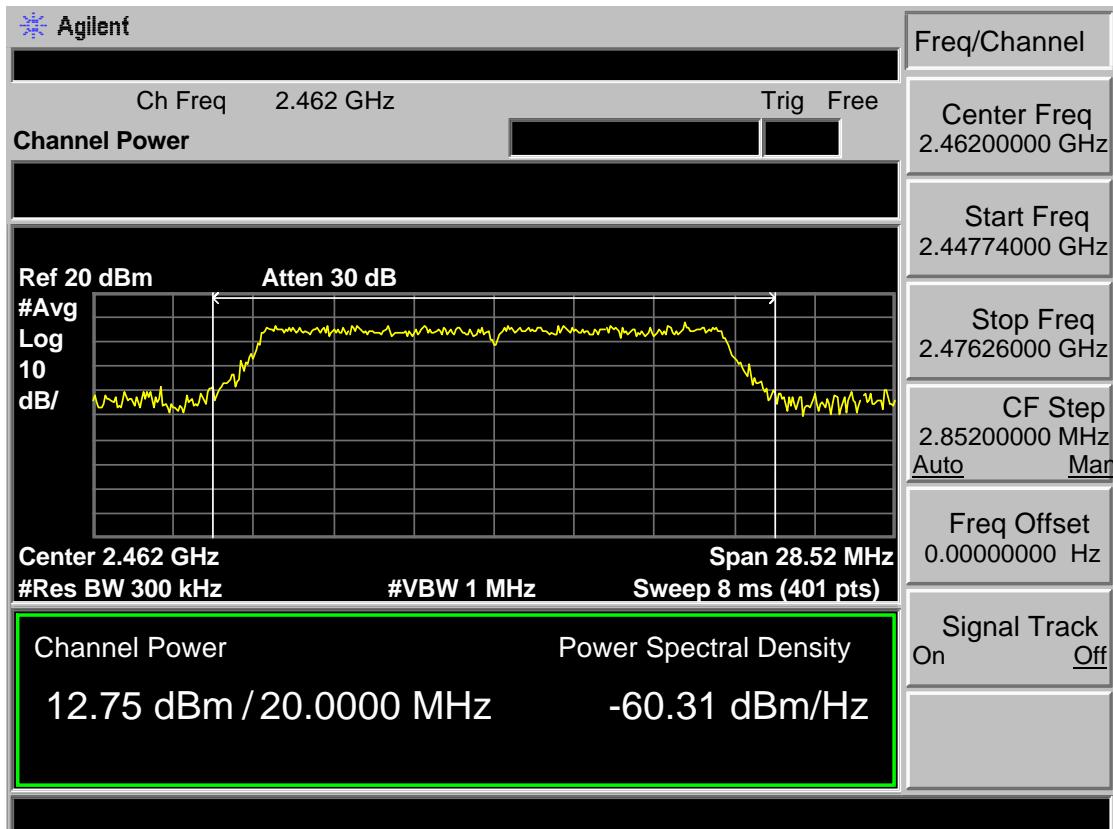
Test Mode: IEEE 802.11n HT20 2412MHz



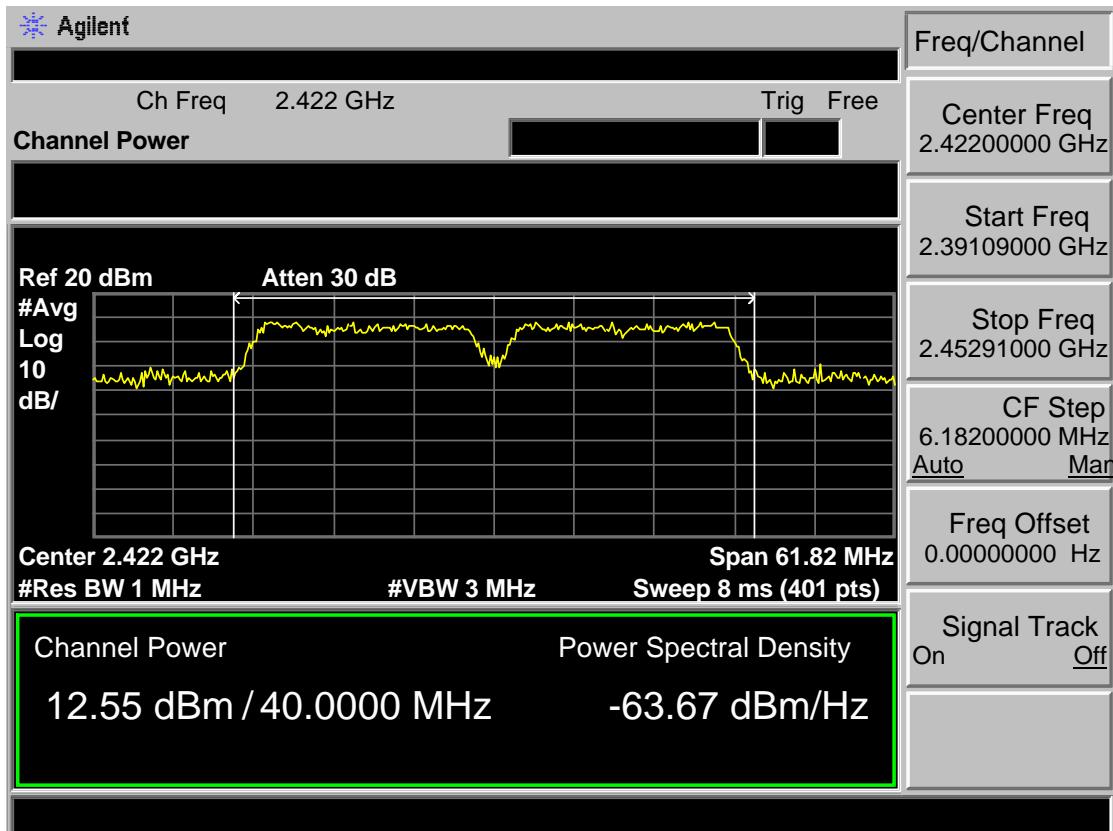
Test Mode: IEEE 802.11 n HT20 2437MHz



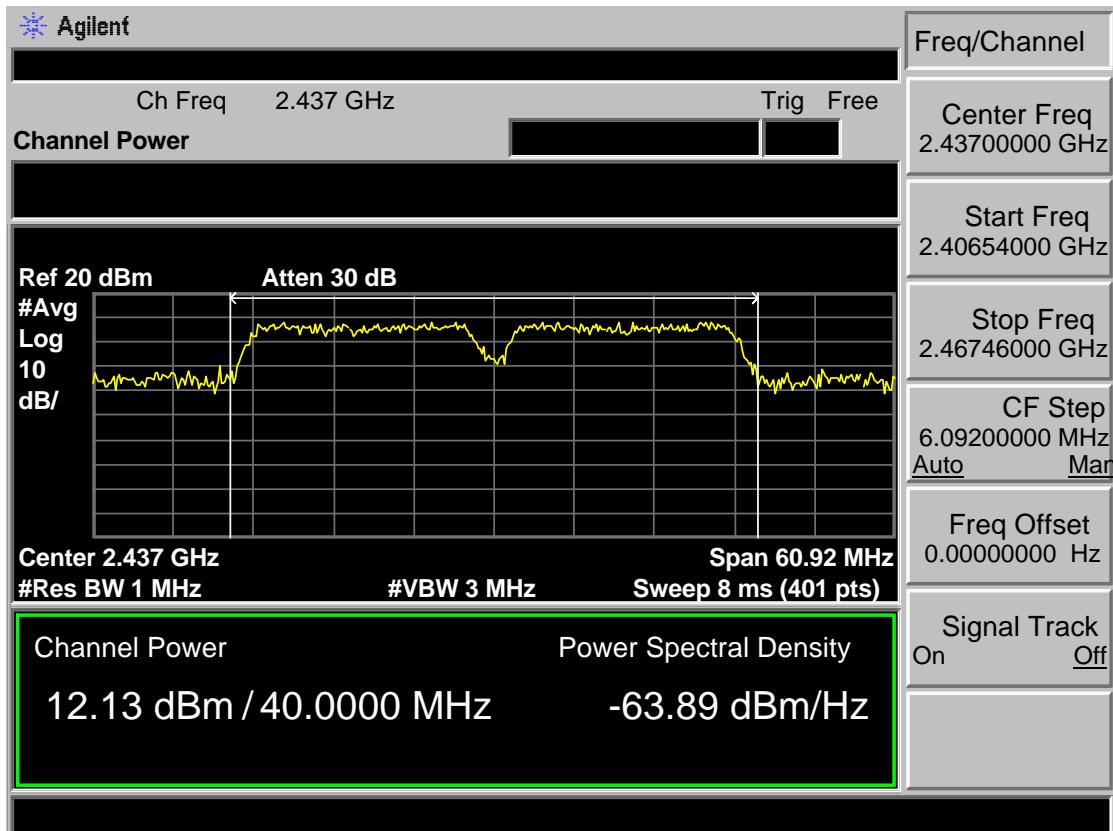
Test Mode: IEEE 802.11 n HT20 2462MHz



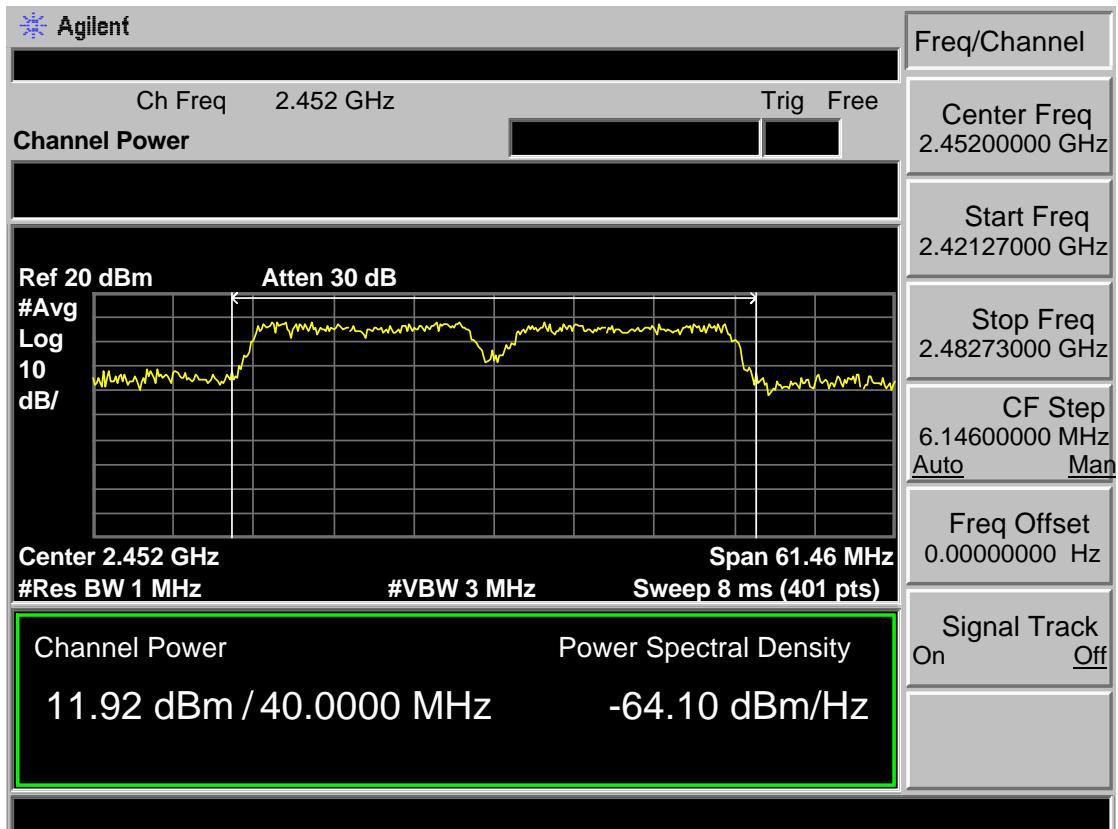
Test Mode: IEEE 802.11 n HT40 2422MHz



Test Mode: IEEE 802.11 n HT40 2437MHz



Test Mode: IEEE 802.11 n HT40 2452MHz



## 8 POWER SPECTRAL DENSITY TEST

### 8.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 8.2 Test Procedure

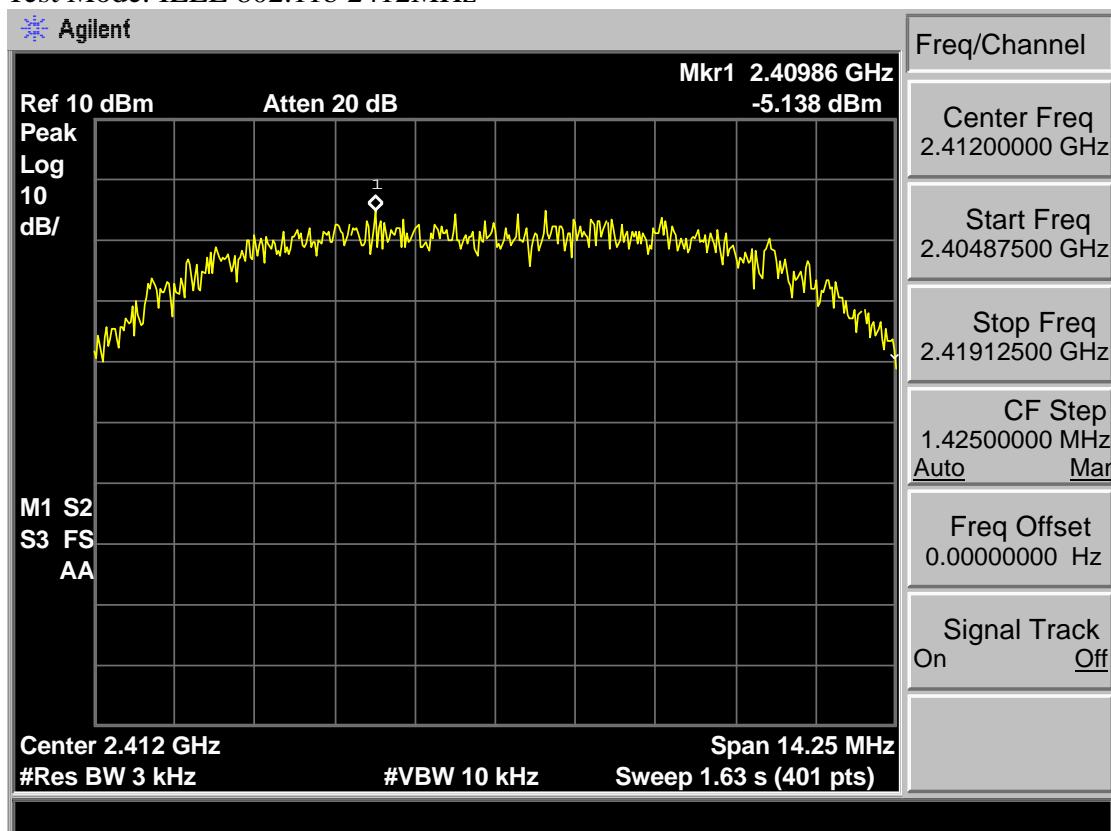
- 1, Connected the EUT's antenna port to spectrum analyzer device.
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set analyzer center frequency to DTS channel center frequency.
  - (2). Set the span to 1.5 times the DTS bandwidth.
  - (3). Set the RBW to:  $3 \text{ kHz} \leqslant \text{RBW} \leqslant 100 \text{ kHz}$ .
  - (4). Set the VBW  $\geqslant 3 \text{ RBW}$ .
  - (5). Detector = peak.
  - (6). Sweep time = auto couple.
  - (7). Trace mode = max hold.
  - (8). Allow trace to fully stabilize.
  - (9). Use the peak marker function to determine the maximum amplitude level.
  - (10). If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### 8.3 Test Result

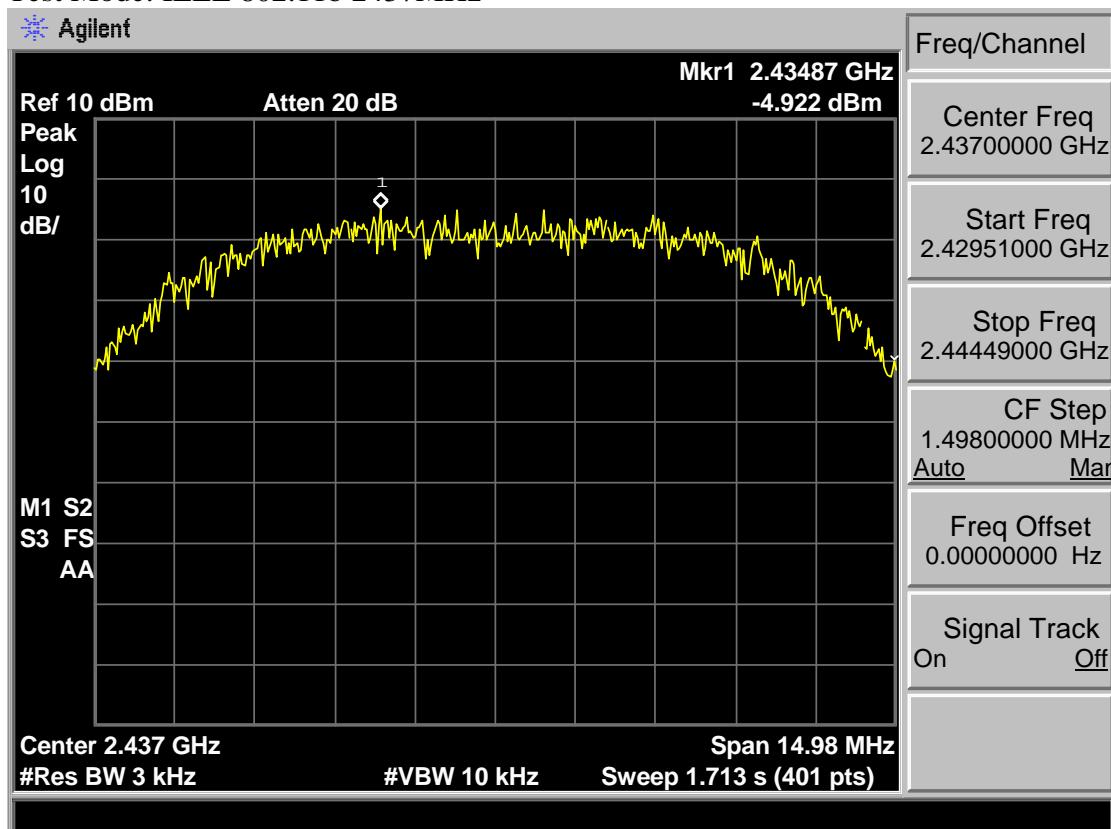
<b>EUT: LED TV</b>			
<b>M/N: WA43FBN1001</b>			
Test date: 2017-04-18		Tested by: Tony Tang	Test site: RF site
Pass			
Test Mode	CH	Power density (dBm/3kHz)	Limit (dBm/3kHz)
IEEE 802.11 b	CH1	-5.14	8
	CH6	-4.92	8
	CH11	-5.35	8
IEEE 802.11 g	CH1	-8.80	8
	CH6	-9.11	8
	CH11	-9.33	8
IEEE 802.11 n HT 20	CH1	-9.94	8
	CH6	-10.09	8
	CH11	-10.14	8
IEEE 802.11 n HT 40	CH3	-12.79	8
	CH6	-12.33	8
	CH9	-12.57	8
Conclusion: PASS			

## 8.4 Test Data

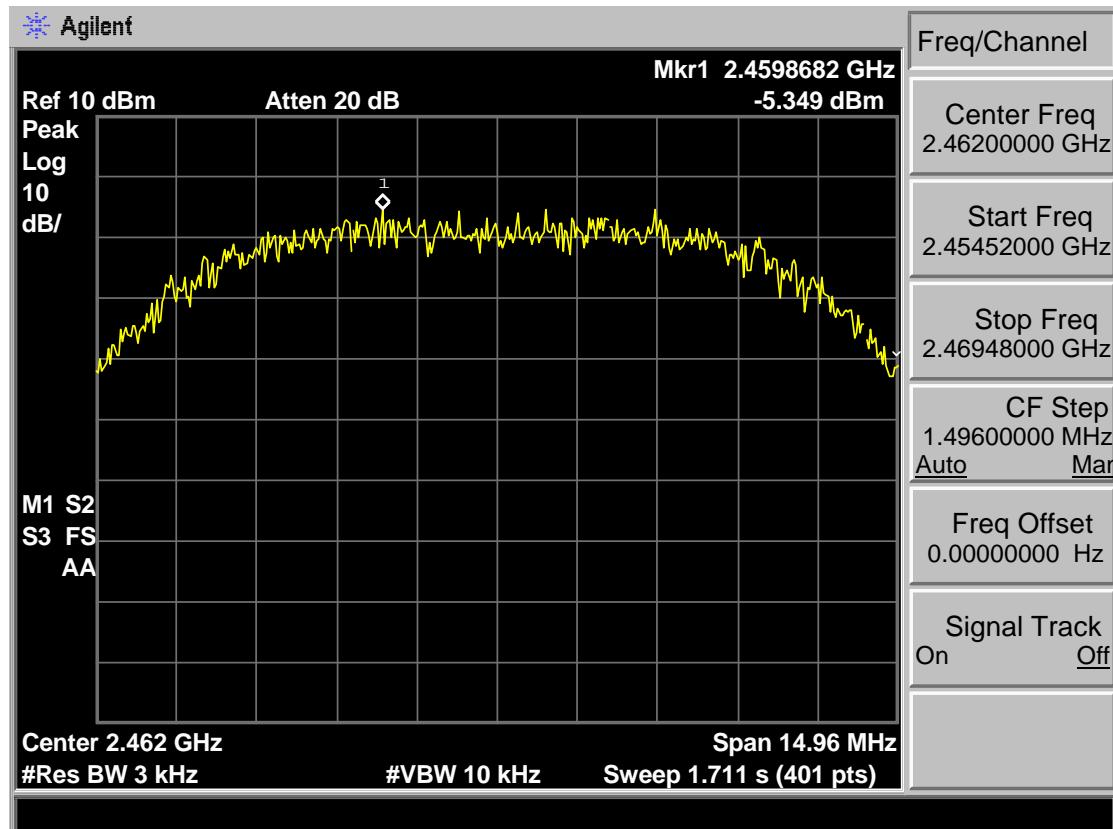
Test Mode: IEEE 802.11b 2412MHz



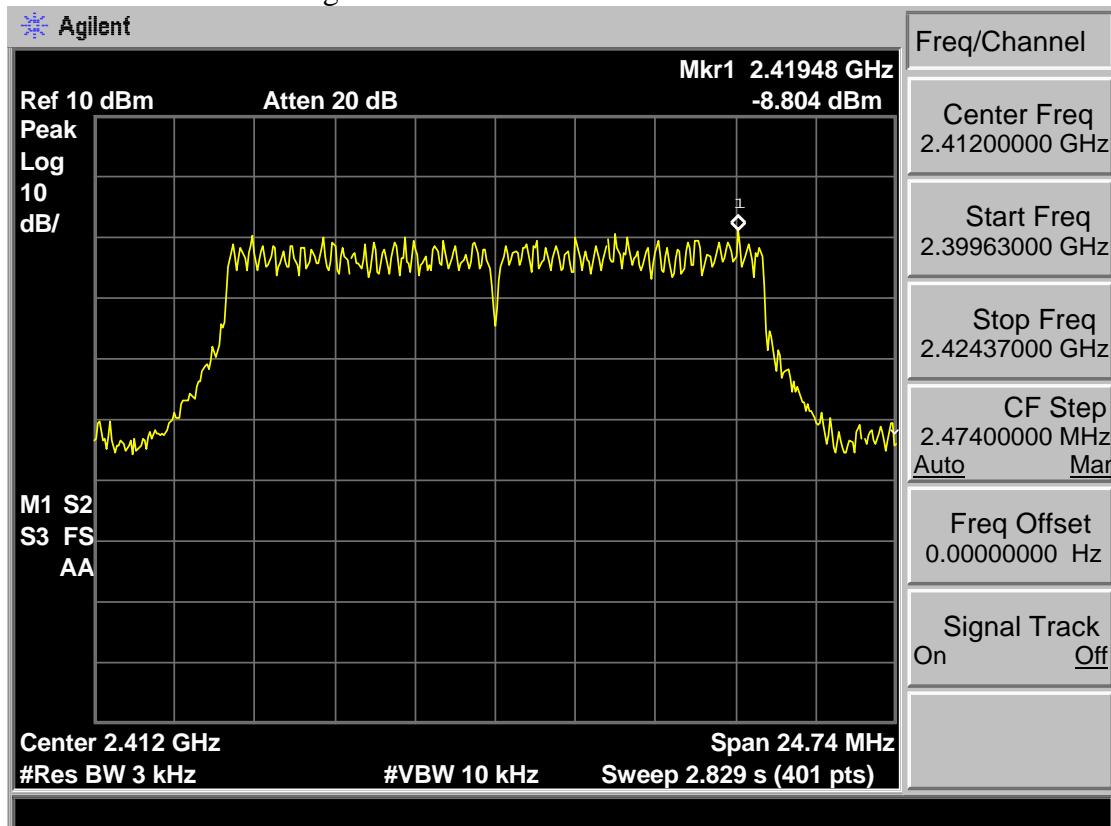
Test Mode: IEEE 802.11b 2437MHz



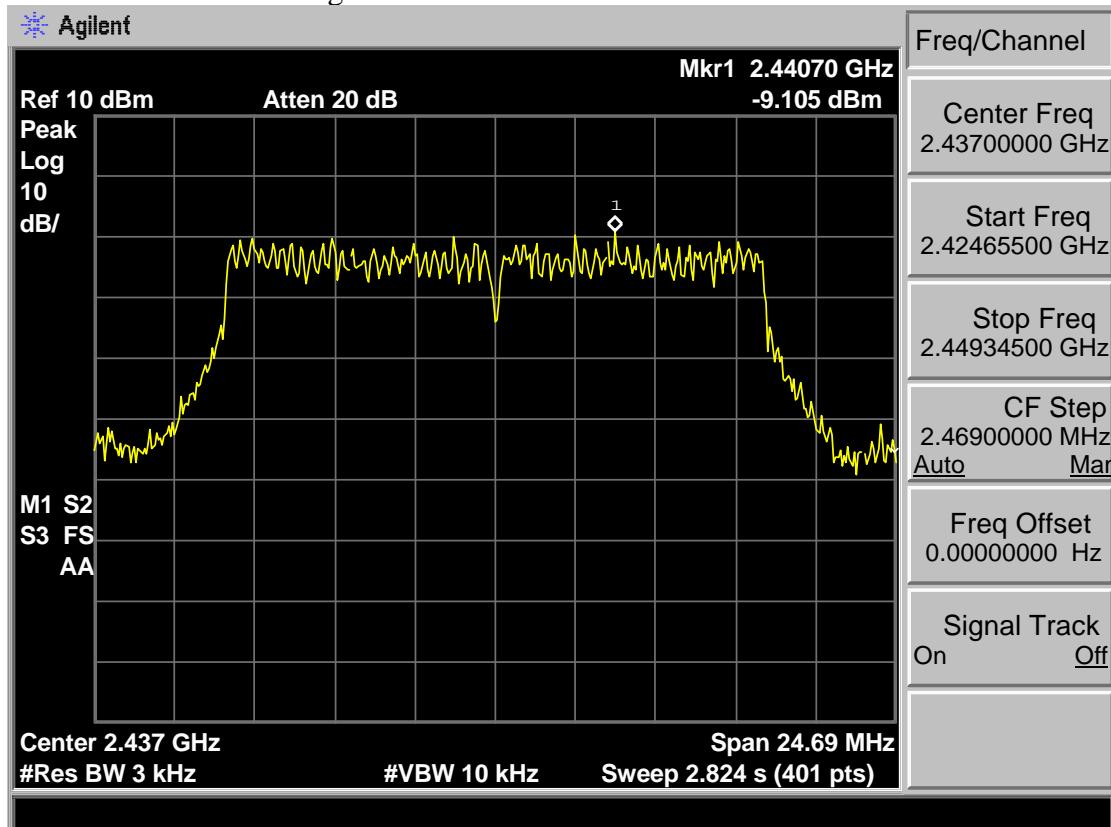
Test Mode: IEEE 802.11b 2462MHz



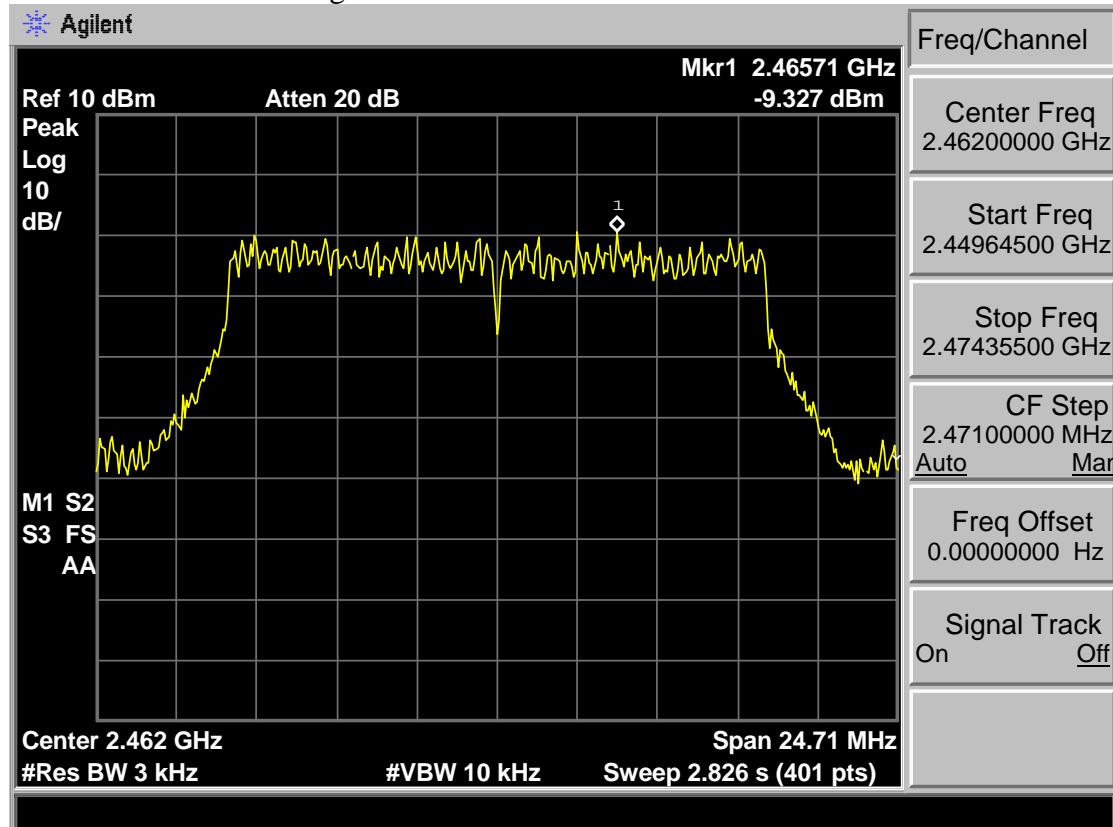
## Test Mode: IEEE 802.11g 2412MHz



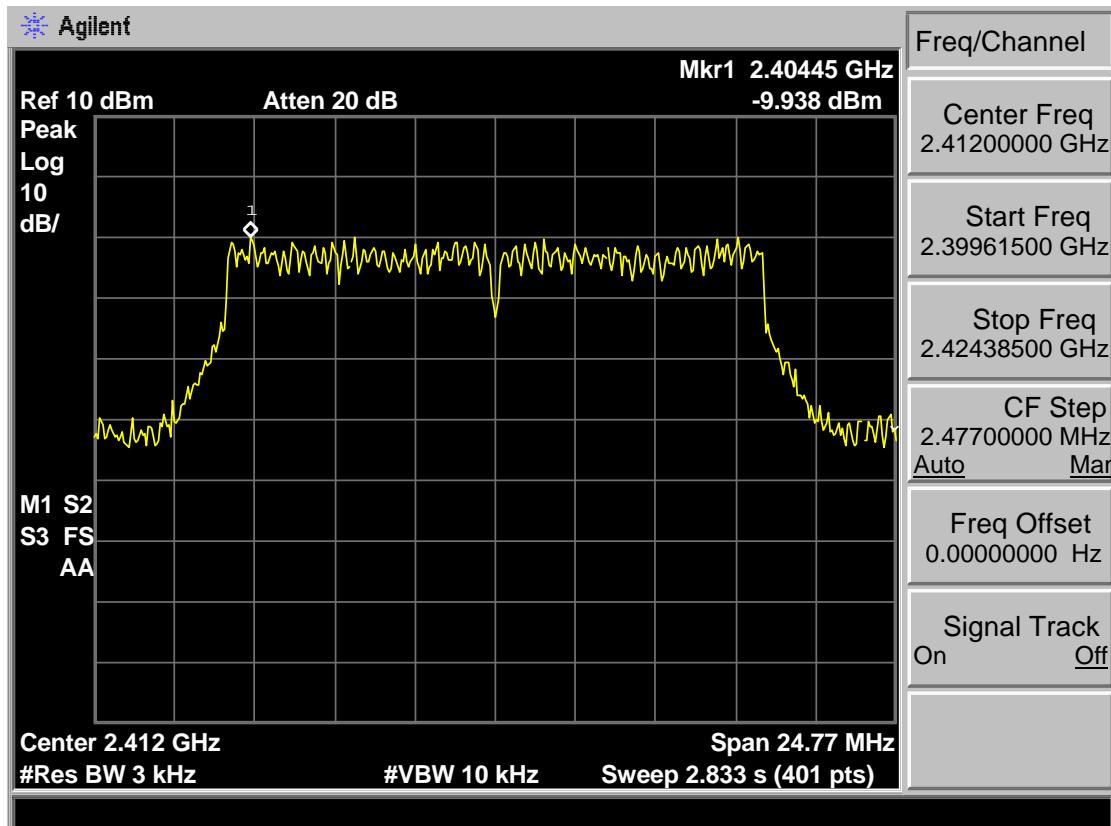
## Test Mode: IEEE 802.11g 2437MHz



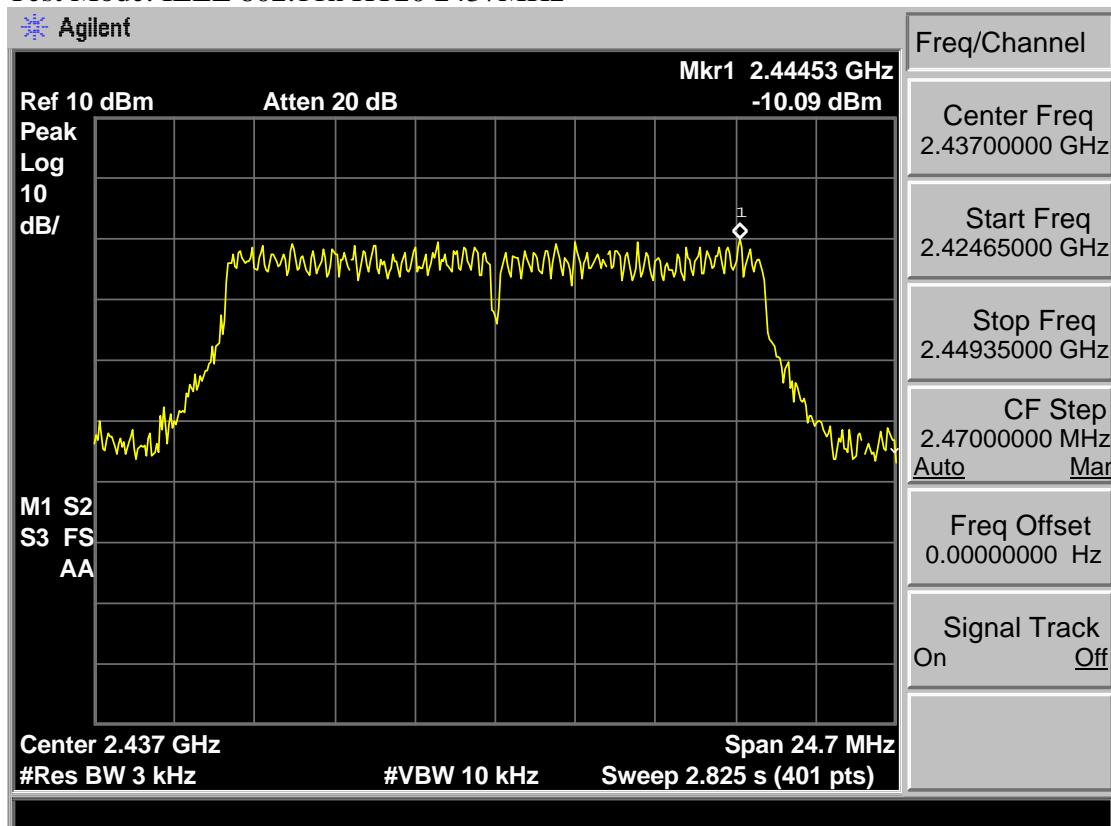
Test Mode: IEEE 802.11g 2462MHz



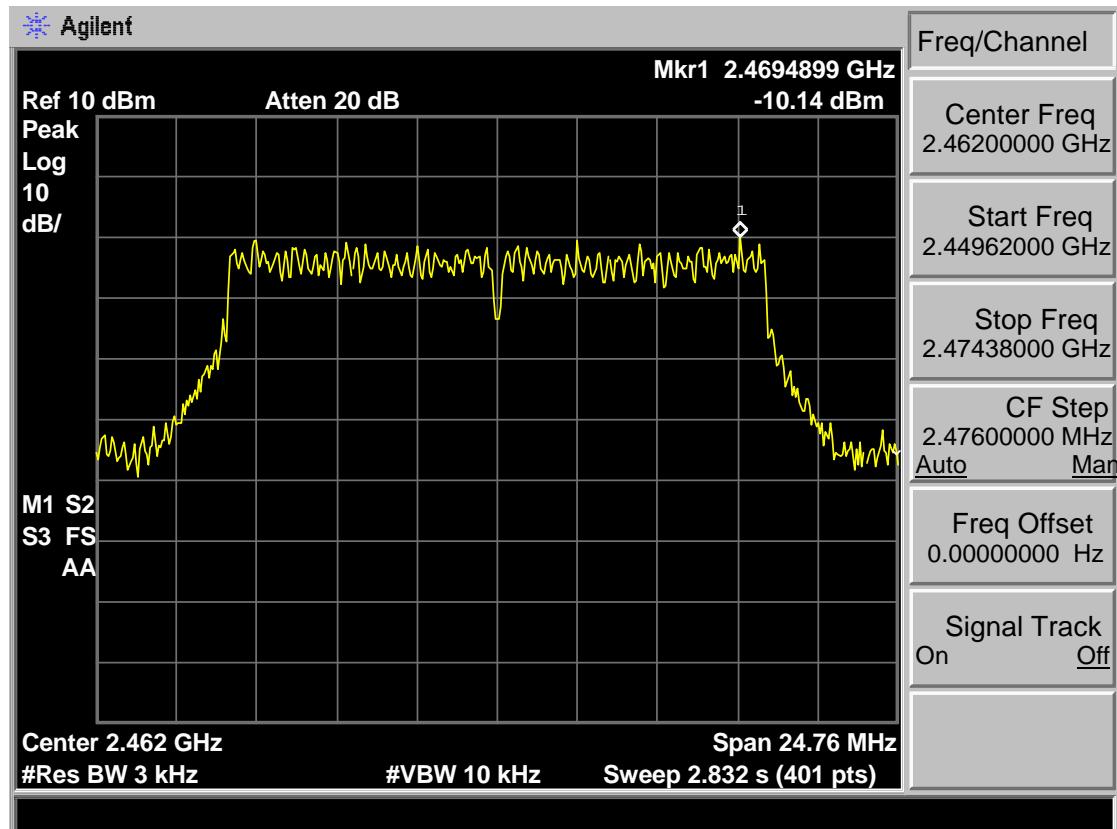
## Test Mode: IEEE 802.11n HT20 2412MHz



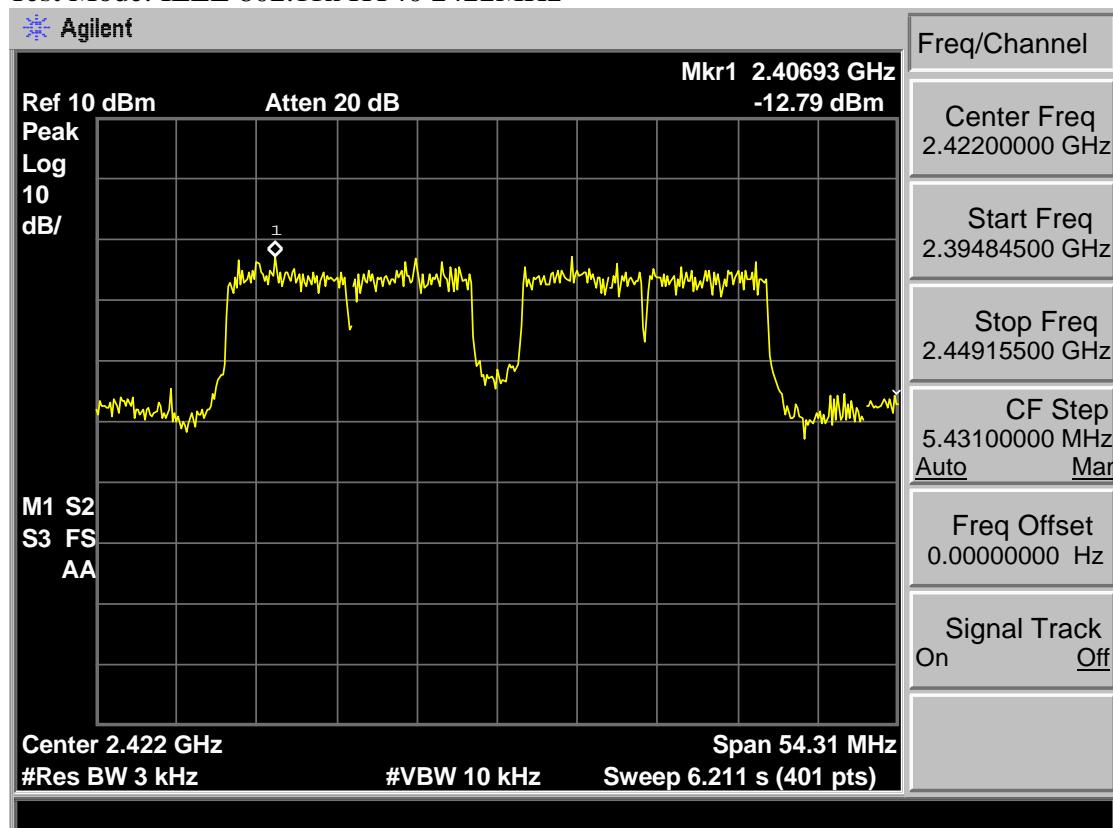
## Test Mode: IEEE 802.11n HT20 2437MHz



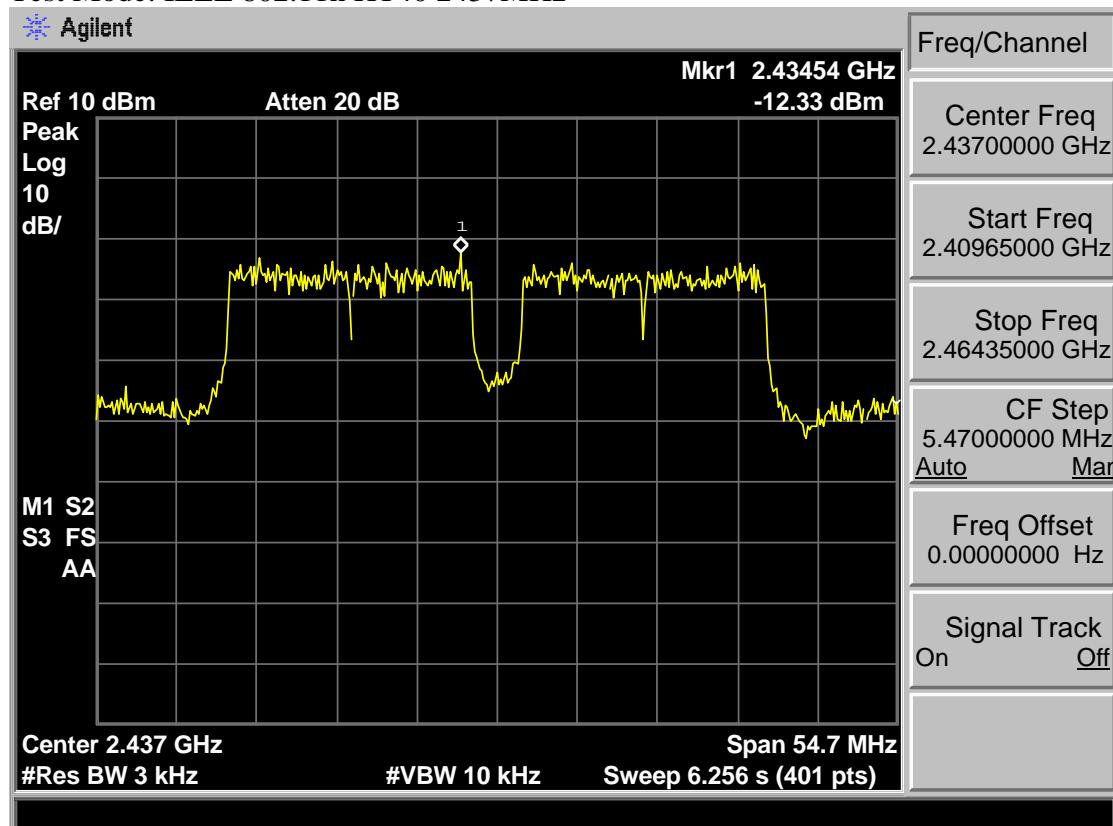
## Test Mode: IEEE 802.11n HT20 2462MHz



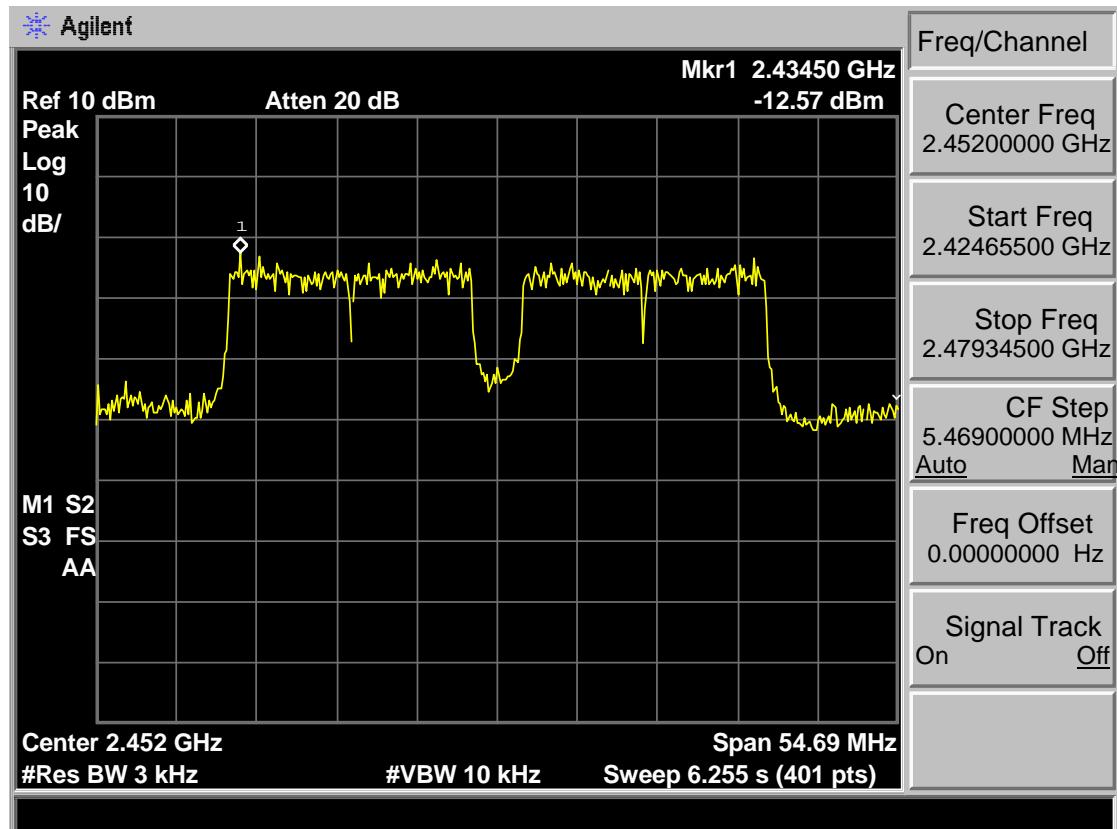
## Test Mode: IEEE 802.11n HT40 2422MHz



## Test Mode: IEEE 802.11n HT40 2437MHz



## Test Mode: IEEE 802.11n HT40 2452MHz



## 9 ANTENNA REQUIREMENTS

### 9.1 Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 9.2 Result

The antennas used for this product are Integral antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2 dBi.

## 10 TEST SETUP PHOTO

Conducted Test



Radiated Test (30-1000 MHz)



Radiated Test (1000-25000 MHz)



## 11 PHOTOS OF EUT

**External Photos**  
M/N: WA43FBN1001



**External Photos**  
M/N: WA43FBN1001



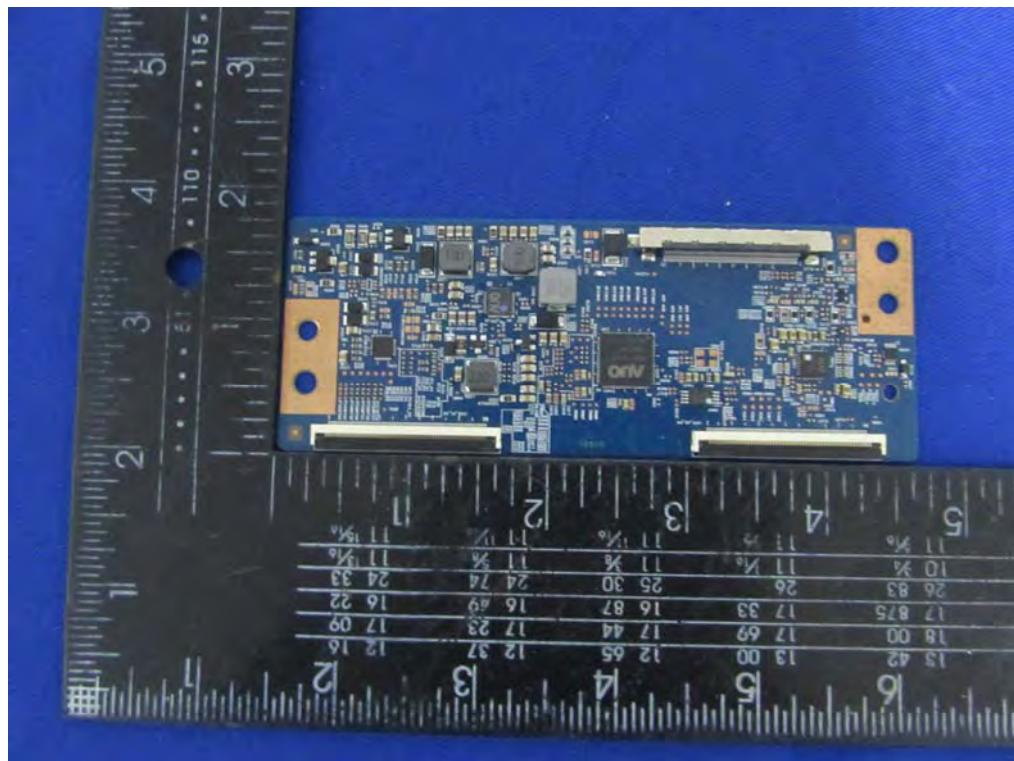
**External Photos**  
M/N: WA43FBN1001



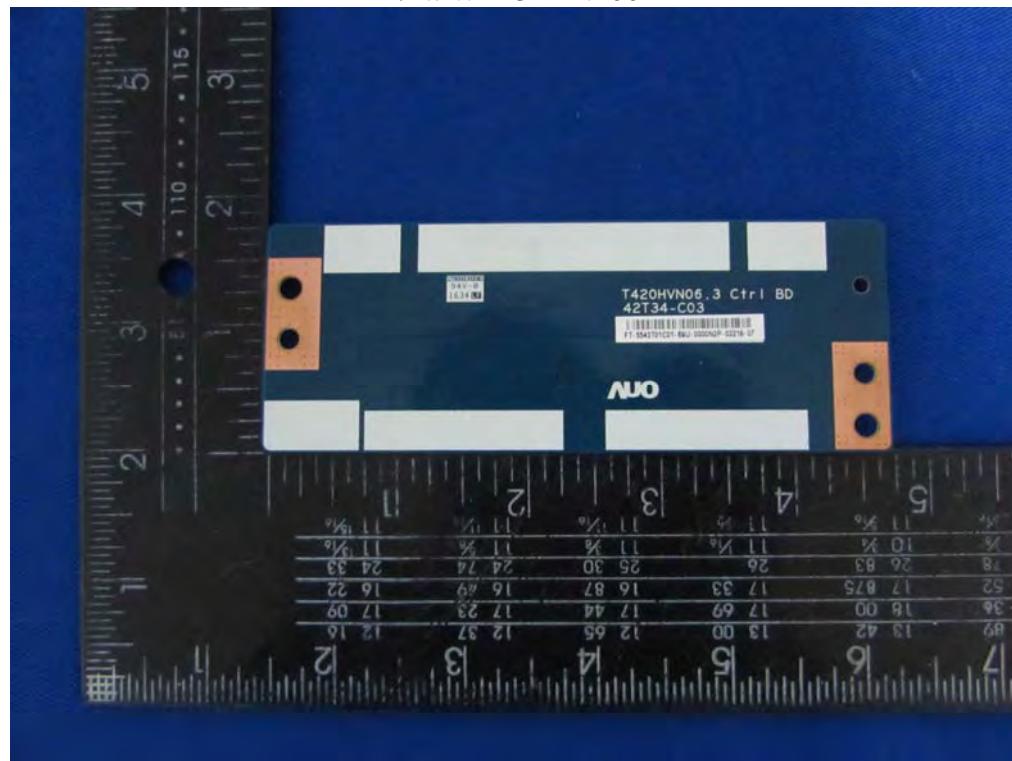
**External Photos**  
M/N: WA43FBN1001



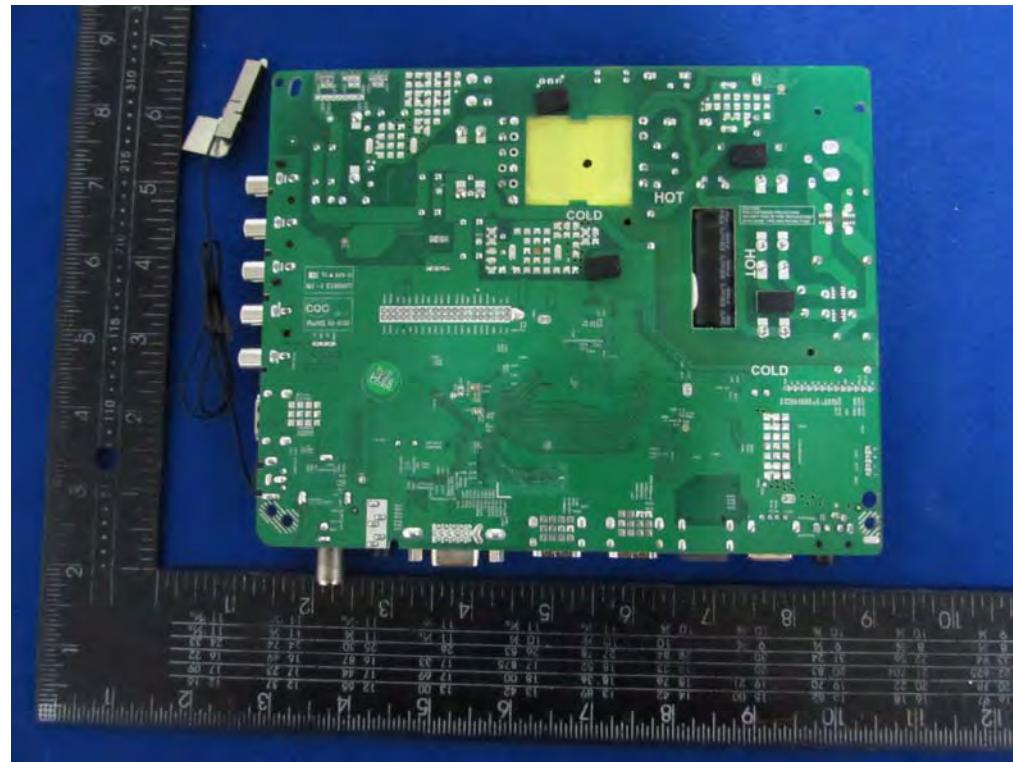
**Internal Photos**  
M/N: WA43FBN1001



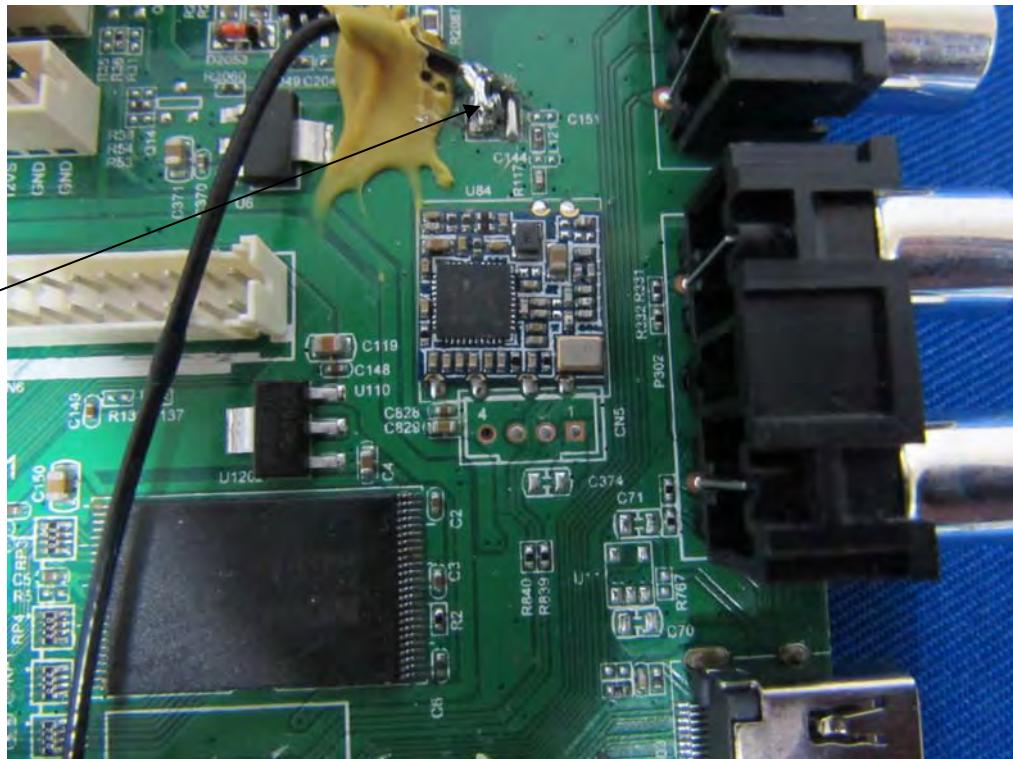
**Internal Photos**  
M/N: WA43FBN1001



**Internal Photos**  
M/N: WA43FBN1001



**Internal Photos**  
M/N: WA43FBN1001



Wifi  
Antenna