

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

GUANGDONG ROULE ELECTRONICS CO., LTD.

WiFi Remote Video Doorbell

Model Number: RL-IP02C

Additional Model: RL-IP02C-1; RL-IP02B; RL-IP02B-1

FCC ID: YI6RL-IP02

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No. 12, Pingdong 3rd Road, Nanping Industry Community,  
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Report Number: ESTE-R1610029  
Date of Test : September20~ October 13, 2016  
Date of Report : October 17, 2016

## TABLE OF CONTENTS

<u>Description</u>	<u>Page</u>
TEST REPORT VERIFICATION.....	4
1. GENERAL INFORMATION.....	5
1.1. Description of Device (EUT) .....	5
2. SUMMARY OF TEST .....	6
2.1. Summary of test result.....	6
2.2. Test Facilities .....	7
2.3. Assistant equipment used for test.....	8
2.4. Block Diagram .....	8
2.5. Test mode .....	9
2.6. Channel List for wifi .....	9
2.7. Test Equipment.....	10
3 POWER LINE CONDUCTED EMISSION TEST.....	11
3.1 Limit .....	11
3.2 Test Procedure.....	11
3.3. Test Result.....	11
3.4. Test data .....	12
4 RADIATED EMISSION TEST.....	16
4.1 Limit.....	16
4.2. Block Diagram of Test setup.....	17
4.3. Test Procedure.....	18
4.4. Test Result.....	18
4.5. Test Data .....	19
5 BAND EDGE COMPLIANCE TEST.....	68
5.1 Limit.....	68
5.2 Test Procedure.....	68
5.3 Test Result.....	68
5.4 Test Data .....	69
6 6dB & 20dB Bandwidth Test.....	85
6.1 Limit .....	85
6.2 Test Procedure for 6dB.....	85
6.3 Test Procedure for 20dB.....	85
6.4 Test Result.....	87
6.5 6dB Test Data.....	88
6.6 20dB Test Data.....	96
7 OUTPUT POWER TEST.....	104
7.1 Limit .....	104
7.2 Test Procedure.....	104
7.3 Test Procedure .....	104
7.4 Test Result.....	105
7.5 Test Data .....	106
8 POWER SPECTRAL DENSITY TEST .....	114
8.1 Limit .....	114

8.2	Test Procedure.....	114
8.3	Test Result.....	115
8.4	Test Data .....	116
9	ANTENNA REQUIREMENTS .....	124
9.1	Limit.....	124
9.2	Result.....	124
10	TEST SETUP PHOTO.....	125
11	PHOTOS OF EUT .....	127

## Test Report Verification

<b>Applicant:</b>	GUANGDONG ROULE ELECTRONICS CO., LTD. No. 12, Pingdong 3rd Road, Nanping Industry Community, Zhuhai City, GuangDong, 519060 ,China.							
<b>Manufacturer</b>	GUANGDONG ROULE ELECTRONICS CO., LTD. No. 12, Pingdong 3rd Road, Nanping Industry Community, Zhuhai City, GuangDong, 519060 ,China.							
<b>E.U.T:</b>	WiFi Remote Video Doorbell							
<b>Model Number:</b>	RL-IP02C							
<b>Additional Model:</b>	RL-IP02C-1; RL-IP02B; RL-IP02B-1  Note: The four models have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction, except the different model name and the exterior.							
<b>Power Supply:</b>	DC 12V From Adapter Input AC 100-240V 50/60Hz							
<b>Test Voltage:</b>	DC 12V From Adapter Input AC 120V/60Hz DC 12V From Adapter Input AC 240V/60Hz							
<b>Trade Name:</b>	<b>RL</b>	Serial No.:	-----					
<b>Date of Receipt:</b>	September 20, 2016	Date of Test:	September20~ October 13, 2016					
<b>Test Specification:</b>	FCC Rules and Regulations Part 15 Subpart C:2015 ANSI C63.10:2013							
<b>Test Result:</b>	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.							
This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.								
Date: October 17, 2016								
Prepared by:	Tested by:	Approved by:						
		 						
Ada / Assistant	Tony.Tang/ Engineer	IcemanHu / Manager						
<b>Other Aspects:</b>	None.							
Abbreviations: OK/P=passed fail/F=failed n.a/N=not applicable E.U.T=equipment under tested								
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.								

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Product Name	:	WiFi Remote Video Doorbell
Model Number	:	RL-IP02C
FCC ID	:	YI6RL-IP02
		Wi-Fi
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)
Operation Frequency	:	IEEE 802.11b/g/n 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	:	Internal Antenna, 2.0dBi Max. 433.92 MHz
Modulation	:	FSK
Operation Frequency	:	433.92MHz
Number of channel	:	1
Antenna and Gain	:	Internal Antenna, 0dBi 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
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: KDB 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 20, 2013

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. Adapter

M/N	:	HK24-HASF1201100
Input	:	AC 100-240V~50/60Hz 0.8A
Output	:	DC 12V/1.1A

## 2.4. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 or 1.5 meter high above ground. EUT was be set into Wifi test mode by software before test.



(EUT: WiFi Remote Video Doorbell)

## 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	2437MHz	2462MHz
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20 Receiving	2412MHz	2437MHz	2462MHz
IEEE 802.11n HT40 Transmitting	2412MHz	2437MHz	2462MHz
IEEE 802.11n HT40 Receiving	2422MHz	2437MHz	2452MHz

Note: All modes were measured and the worstcase emission was reported.

## 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)
3	2422	6	2437	9	2452
4	2427	7	2442		
5	2432	8	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 25,16	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	101260	June 25,16	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June 25,16	1 Year

### 2.7.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	100435	June 25,16	1 Year
Loop Antenna	ETS-LINDGREN	6502	00071730	June 25,16	3 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 25,16	1 Year

### 2.7.3. For radiated emissions test (30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June 25,16	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June 25,16	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June 28,15	3 Year
Signal Amplifier	Agilent	310N	187037	June 25,16	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 25,16	1 Year

### 2.7.4. 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 28,15	3 Year
Board-Band Horn Antenna	SCHWARZB ECK	BBHA 9170	9170-497	June 28,15	3 Year
Signal Amplifier	SCHWARZB ECK	BBV9718	9718-212	June 25,16	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June 25,16	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	June 25,16	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June 25,16	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.

#### 3.2 Test Procedure

The EUT was placed on a non-metallic table, 80 cm 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.

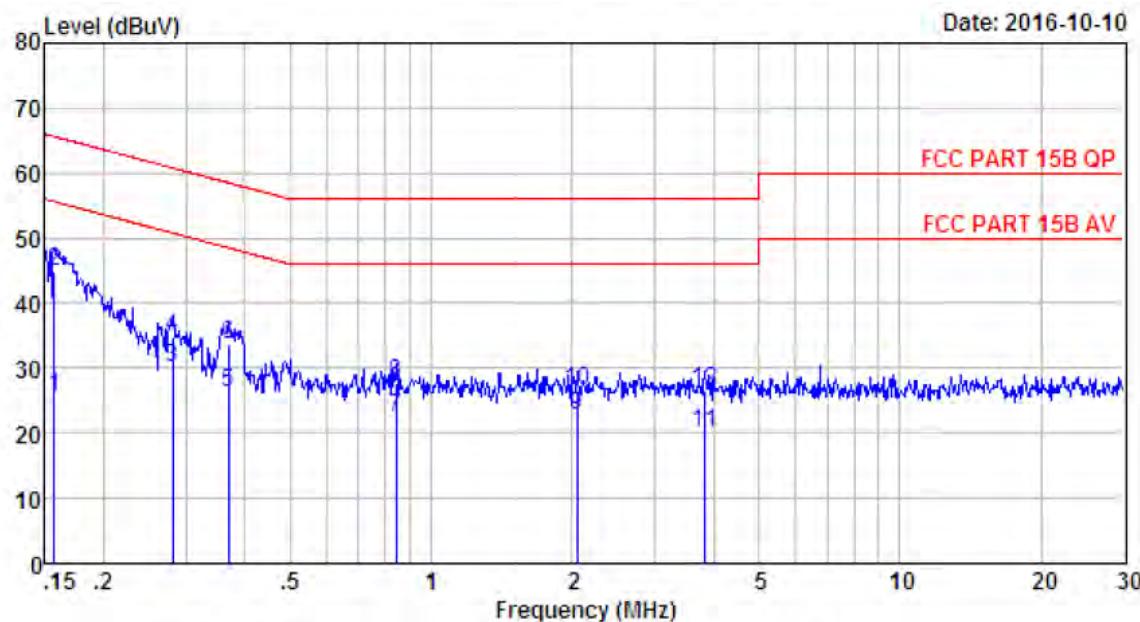
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

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

#### 3.3. Test Result

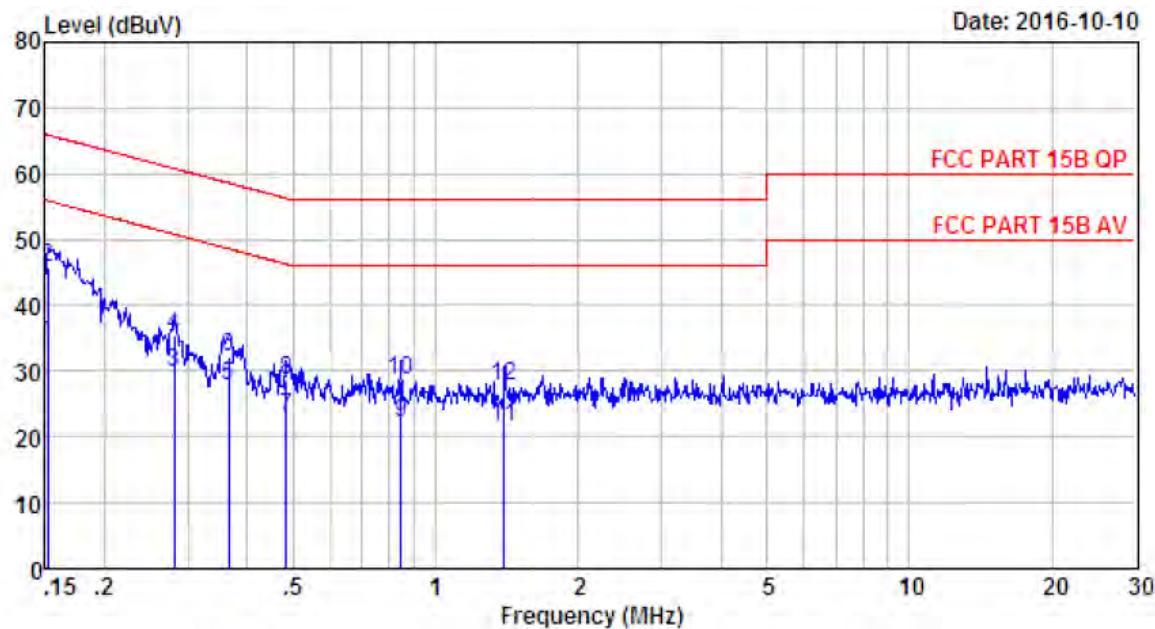
**PASS.** (All emissions not reported below are too low against the prescribed limits.)

### 3.4. Test data



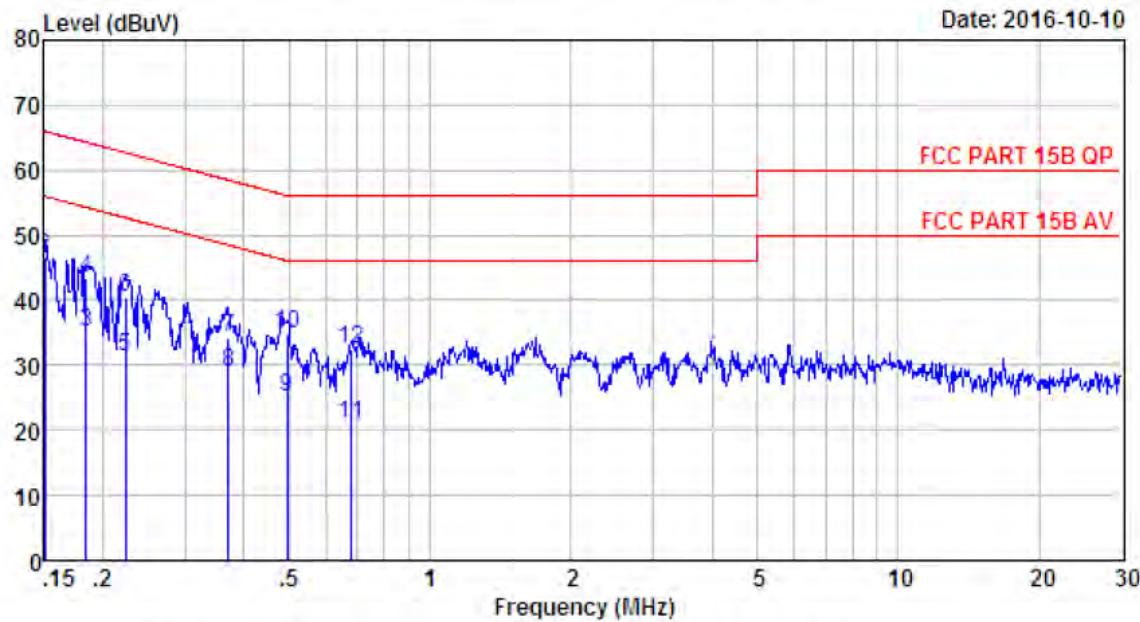
Site no : 844 Shield Room Data no. : 181  
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : TX Mode

	LISN	Cable	Emission				
Freq. (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16	9.48	9.81	6.46	25.75	55.65	Average
2	0.16	9.48	9.81	25.72	45.01	65.65	QP
3	0.28	9.60	9.83	10.72	30.15	50.81	Average
4	0.28	9.60	9.83	15.33	34.76	60.81	QP
5	0.37	9.59	9.82	6.74	26.15	48.52	Average
6	0.37	9.59	9.82	14.36	33.77	58.52	QP
7	0.84	9.62	9.82	2.97	22.41	46.00	Average
8	0.84	9.62	9.82	8.38	27.82	56.00	QP
9	2.04	9.62	9.84	3.20	22.66	46.00	Average
10	2.04	9.62	9.84	7.08	26.54	56.00	QP
11	3.82	9.64	9.85	0.67	20.16	46.00	Average
12	3.82	9.64	9.85	7.16	26.65	56.00	QP



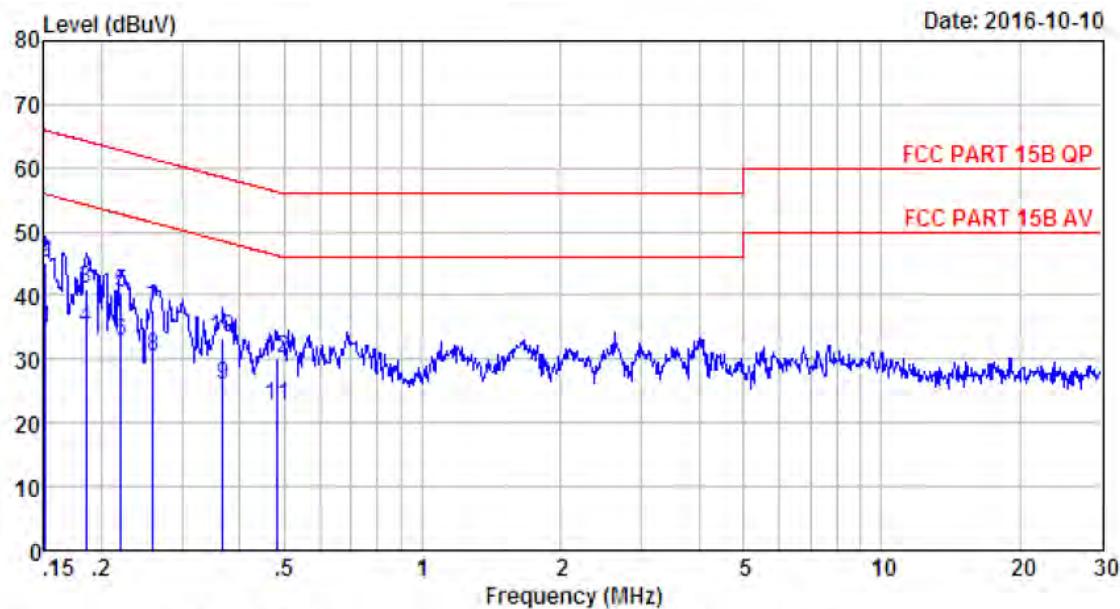
Site no : 844 Shield Room Data no. : 183  
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : TX Mode

Freq. (MHz)	LISN Factor (dB)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	
1 0.15	9.61	9.81	14.79	34.21	55.91	21.70	Average
2 0.15	9.61	9.81	26.22	45.64	65.91	20.27	QP
3 0.28	9.61	9.83	10.44	29.28	50.81	20.93	Average
4 0.28	9.61	9.83	15.86	35.30	60.81	25.51	QP
5 0.37	9.61	9.82	8.23	27.66	48.61	20.95	Average
6 0.37	9.61	9.82	12.85	32.28	58.61	26.33	QP
7 0.48	9.61	9.81	3.58	23.00	46.27	23.27	Average
8 0.48	9.61	9.81	9.12	28.54	56.27	27.73	QP
9 0.84	9.62	9.82	2.60	22.04	46.00	23.96	Average
10 0.84	9.62	9.82	9.07	28.51	56.00	27.49	QP
11 1.40	9.63	9.82	2.05	21.50	46.00	24.50	Average
12 1.40	9.63	9.82	8.39	27.84	56.00	28.16	QP



Site no : 844 Shield Room Data no. : 177  
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 240V/60Hz  
 M/N : RL-IP02C  
 Test Mode : TX Mode

Freq. (MHz)	LISN	Cable	Emission				Remark
	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	
1	0.15	9.61	9.81	17.33	36.75	56.00	Average
2	0.15	9.61	9.81	27.14	46.56	66.00	QP
3	0.18	9.61	9.80	15.67	35.08	54.28	Average
4	0.18	9.61	9.80	23.92	43.33	64.28	QP
5	0.22	9.61	9.80	12.01	31.42	52.70	Average
6	0.22	9.61	9.80	21.17	40.58	62.70	QP
7	0.37	9.61	9.82	14.81	34.24	48.47	Average
8	0.37	9.61	9.82	9.45	28.88	58.47	QP
9	0.49	9.61	9.81	5.68	25.10	46.10	Average
10	0.49	9.61	9.81	15.41	34.83	56.10	QP
11	0.68	9.59	9.81	1.63	21.03	46.00	Average
12	0.68	9.59	9.81	13.18	32.58	56.00	QP



Site no : 844 Shield Room Data no. : 179  
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 240V/60Hz  
 M/N : RL-IP02C  
 Test Mode : TX Mode

Freq. (MHz)	LISM		Cable	Emission			Margin (dB)	Remark
	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)			
1	0.15	9.46	9.81	15.69	34.96	55.96	21.00	Average
2	0.15	9.46	9.81	25.93	45.20	65.96	20.76	QP
3	0.19	9.56	9.80	21.68	41.04	54.24	13.20	Average
4	0.19	9.56	9.80	15.39	34.75	64.24	29.49	QP
5	0.22	9.60	9.80	21.15	40.55	52.79	12.24	Average
6	0.22	9.60	9.80	13.26	32.66	62.79	30.13	QP
7	0.26	9.60	9.82	18.33	37.75	51.47	13.72	Average
8	0.26	9.60	9.82	11.07	30.49	61.47	30.98	QP
9	0.37	9.59	9.82	6.65	26.06	48.56	22.50	Average
10	0.37	9.59	9.82	13.81	33.22	58.56	25.34	QP
11	0.48	9.59	9.81	3.32	22.72	46.27	23.55	Average
12	0.48	9.59	9.81	10.79	30.19	56.27	26.08	QP

## 4 RADIATED EMISSION TEST

### 4.1 Limit

#### 4.1.1 15.209 limits

Frequency (MHz)	Field strength ( $\mu$ V/m)	Distance (m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

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

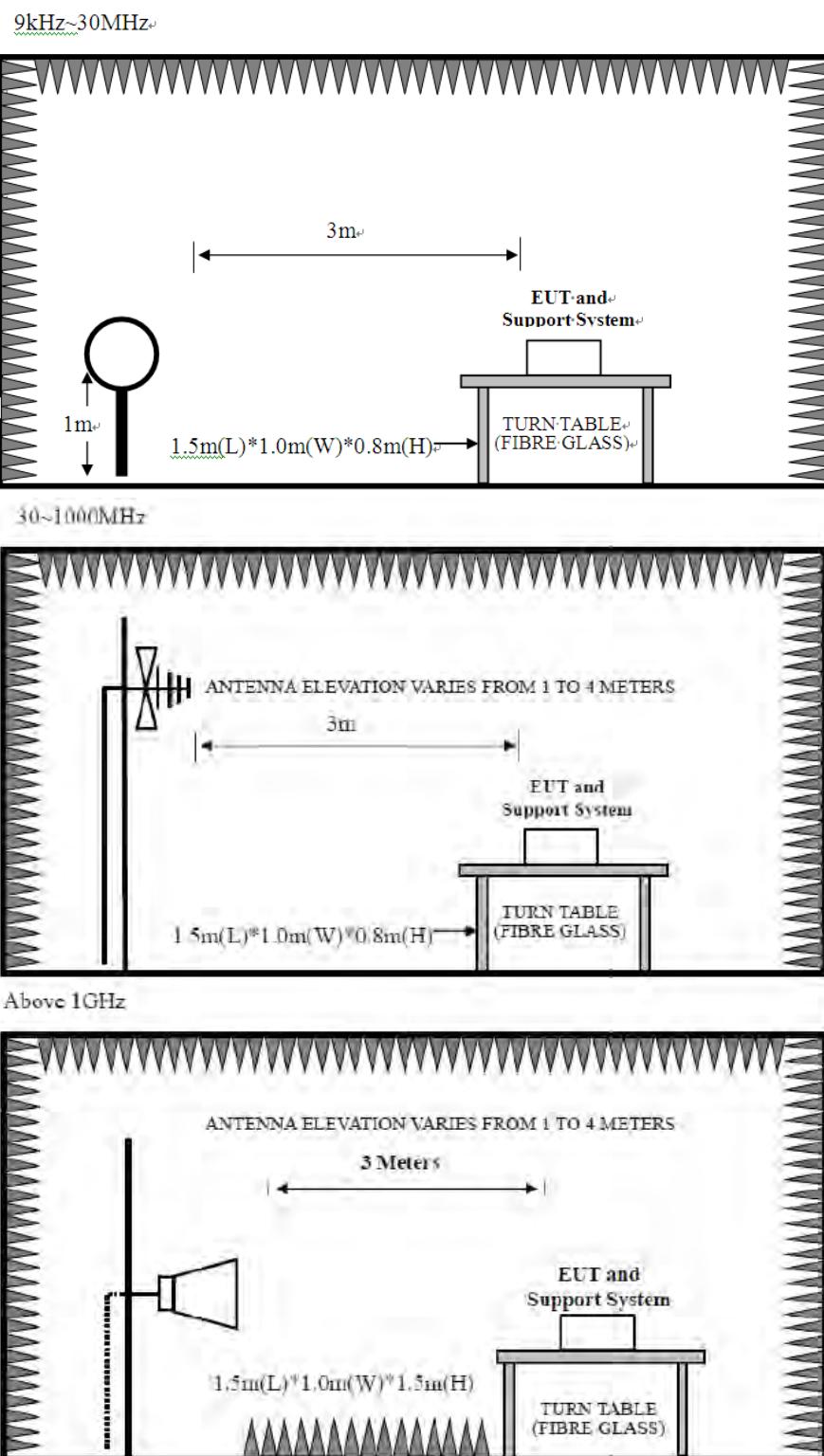
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

#### 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



#### 4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it work 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. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz 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 10th 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.

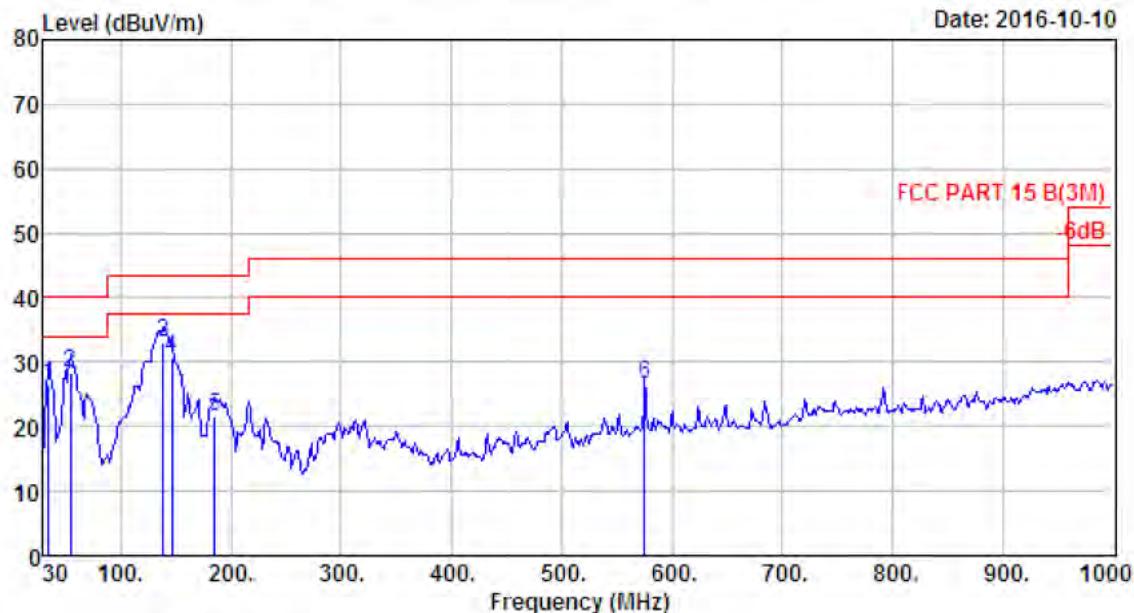
#### 4.5. Test Data

9 kHz – 30 MHz

Pass

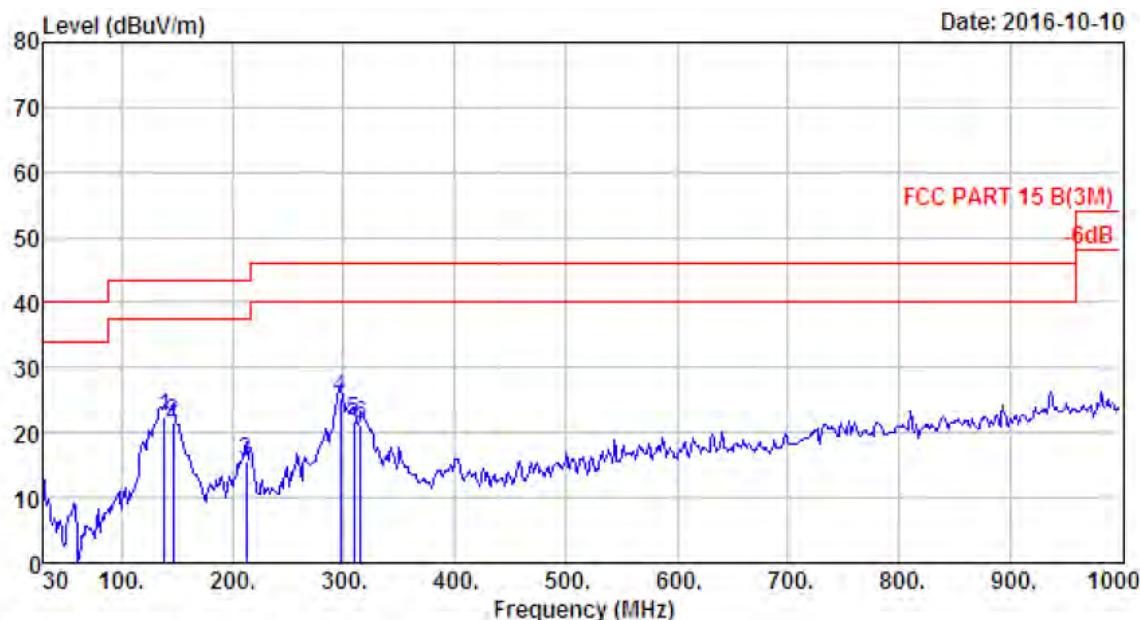
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

30-1000 MHz



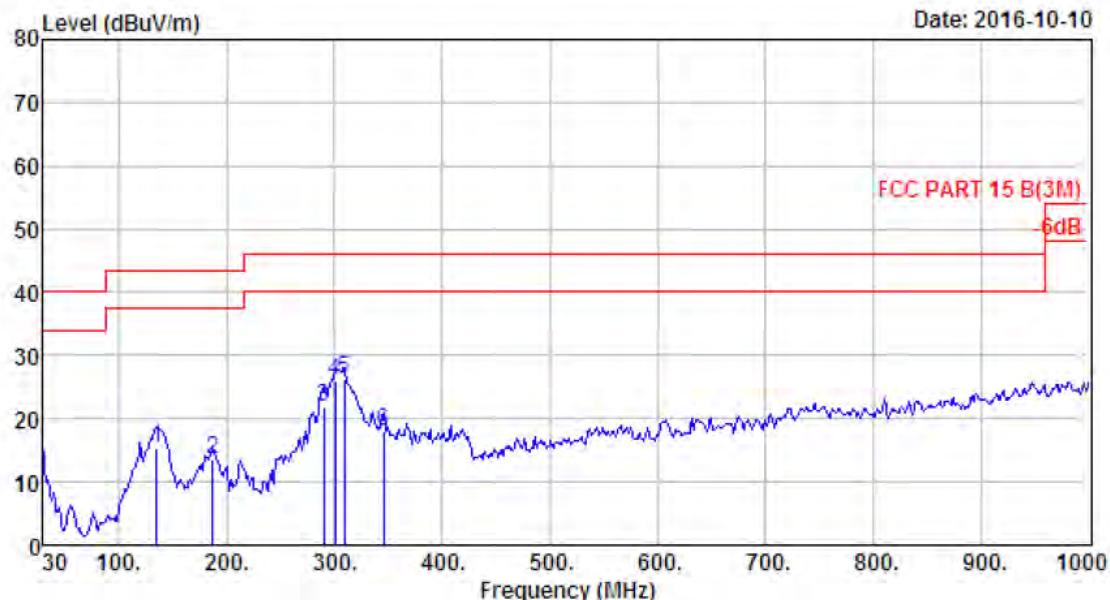
Site no. : 966 1# chamber Data no. : 211  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b CH1 2412TX

	ANT	Cable	Emission				
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 34.85	15.55	0.72	10.29	26.56	40.00	13.44	QP
2 54.25	5.82	0.93	21.61	28.36	40.00	11.64	QP
3 138.64	11.42	1.54	20.22	33.18	43.50	10.32	QP
4 146.40	11.15	1.58	17.96	30.69	43.50	12.81	QP
5 185.20	8.48	1.75	11.29	21.52	43.50	21.98	QP
6 575.14	19.55	3.40	3.50	26.45	46.00	19.55	QP



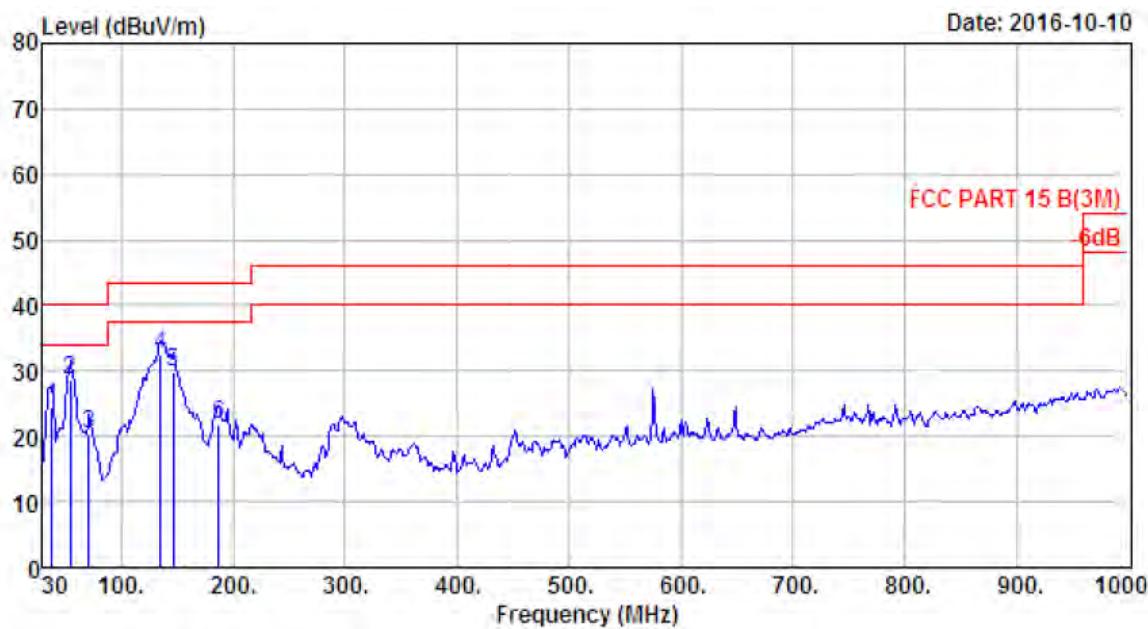
Site no. : 966 1# chamber Data no. : 212  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b CH1 2412TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 138.64	11.42	1.54	9.36	22.32	43.50	21.18	QP
2 146.40	11.15	1.58	8.77	21.50	43.50	22.00	QP
3 212.36	8.56	1.91	5.12	15.59	43.50	27.91	QP
4 296.75	12.99	2.32	10.04	25.35	46.00	20.65	QP
5 309.36	13.18	2.36	6.42	21.96	46.00	24.04	QP
6 315.18	13.39	2.42	5.41	21.22	46.00	24.78	QP



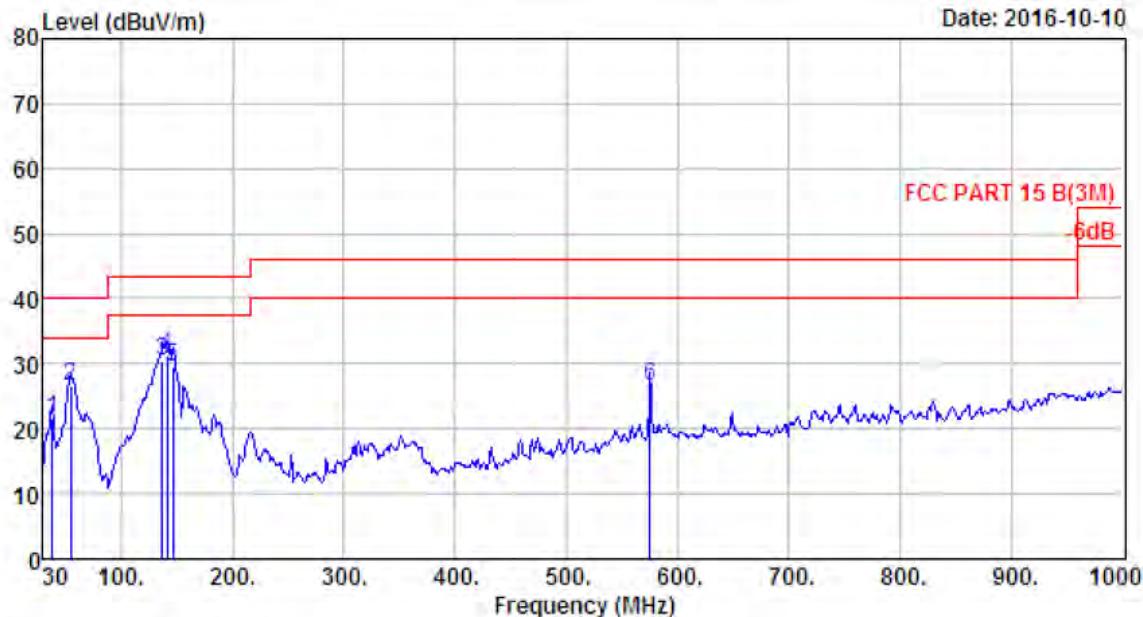
Site no. : 966 1# chamber Data no. : 213  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b CH6 2437TX

Freq. (MHz)	ANT	Cable	Emission				Remark
	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 134.76	11.37	1.57	2.52	15.46	43.50	28.04	QP
2 187.14	8.26	1.84	3.48	13.58	43.50	29.92	QP
3 289.96	12.73	2.32	6.92	21.97	46.00	24.03	QP
4 300.63	13.03	2.37	10.50	25.90	46.00	20.10	QP
5 309.36	13.18	2.36	10.63	26.17	46.00	19.83	QP
6 345.25	14.32	2.54	1.19	18.05	46.00	27.95	QP



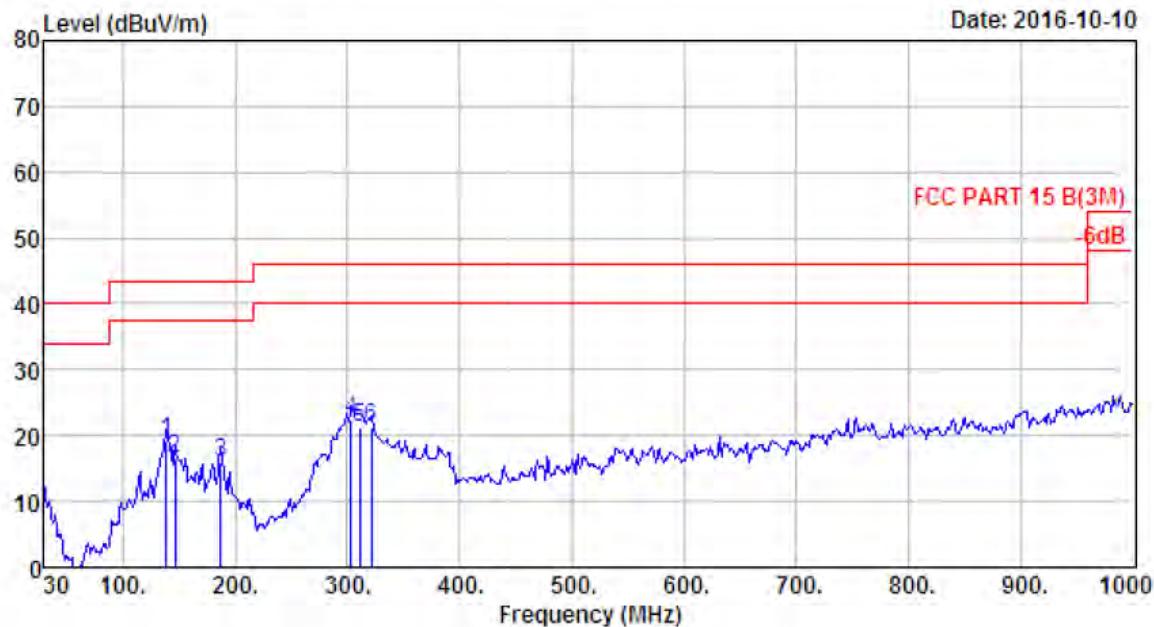
Site no. : 966 1# chamber Data no. : 214  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b CH6 2437TX

	ANT	Cable	Emission				Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
<hr/>							
1 37.76	14.05	0.79	9.80	24.64	40.00	15.36	QP
2 54.25	5.82	0.93	21.77	28.52	40.00	11.48	QP
3 70.74	5.82	1.04	13.43	20.29	40.00	19.71	QP
4 134.76	11.37	1.57	19.65	32.59	43.50	10.91	QP
5 146.40	11.15	1.58	17.02	29.75	43.50	13.75	QP
6 187.14	8.26	1.84	11.72	21.82	43.50	21.68	QP



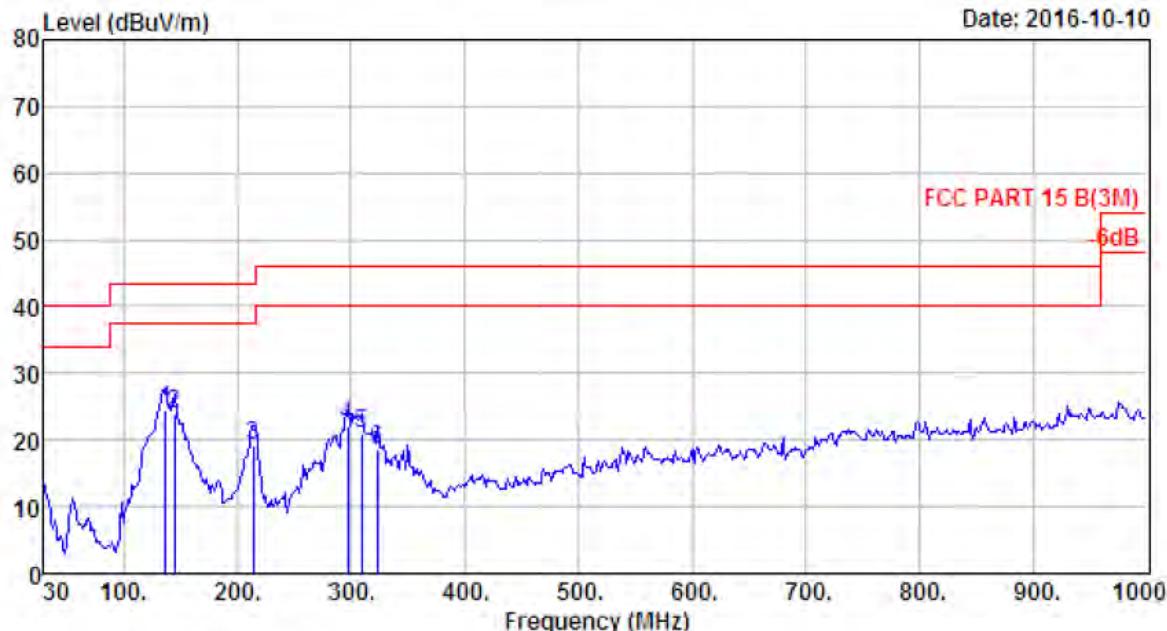
Site no. : 966 1# chamber Data no. : 215  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b CH11 2462TK

	ANT	Cable	Emission				Remark
Freq.	Factor	Loss	Reading	Level	Limit	Margin	(dB)
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)		
1	37.76	14.05	0.79	6.74	21.58	40.00	18.42 QP
2	54.25	5.82	0.93	19.84	26.59	40.00	13.41 QP
3	136.70	11.39	1.57	17.53	30.49	43.50	13.01 QP
4	141.55	11.36	1.51	18.54	31.41	43.50	12.09 QP
5	146.40	11.15	1.58	16.89	29.62	43.50	13.88 QP
6	575.14	19.55	3.40	3.65	26.60	46.00	19.40 QP



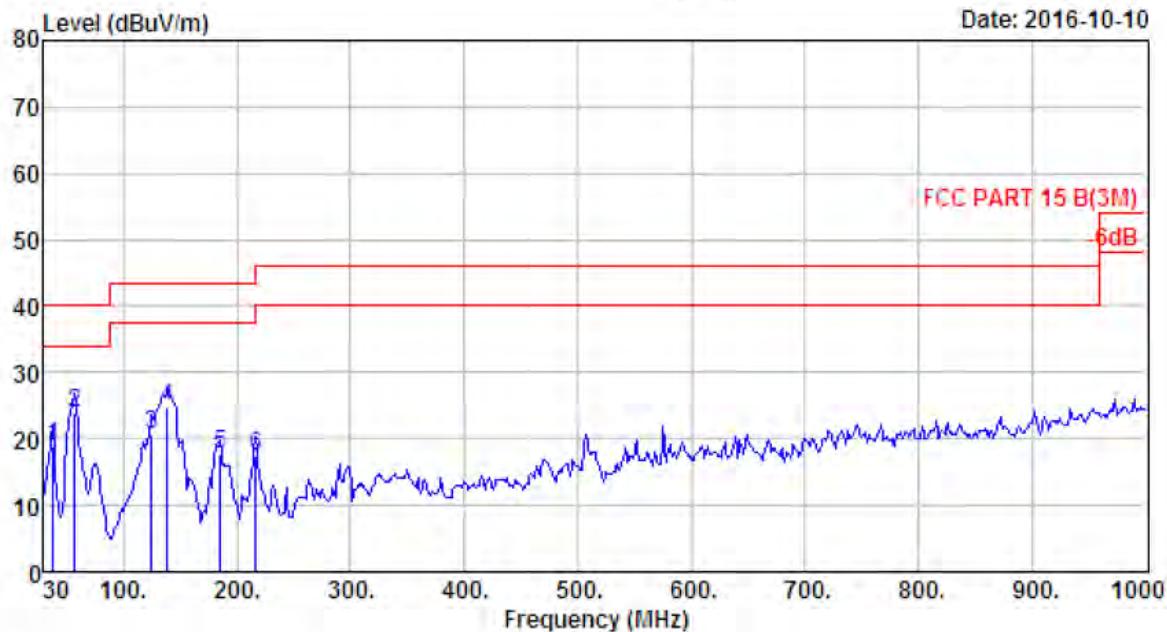
Site no. : 966 1# chamber Data no. : 216  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b CH11 2462TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission				Remark
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)		
1 138.64	11.42	1.54	6.13	19.09	43.50	24.41	QP	
2 146.40	11.15	1.58	3.77	16.50	43.50	27.00	QP	
3 187.14	8.26	1.84	5.94	16.04	43.50	27.46	QP	
4 303.54	13.08	2.43	6.85	22.36	46.00	23.64	QP	
5 311.30	13.24	2.33	5.77	21.34	46.00	24.66	QP	
6 321.00	13.60	2.41	5.16	21.17	46.00	24.83	QP	



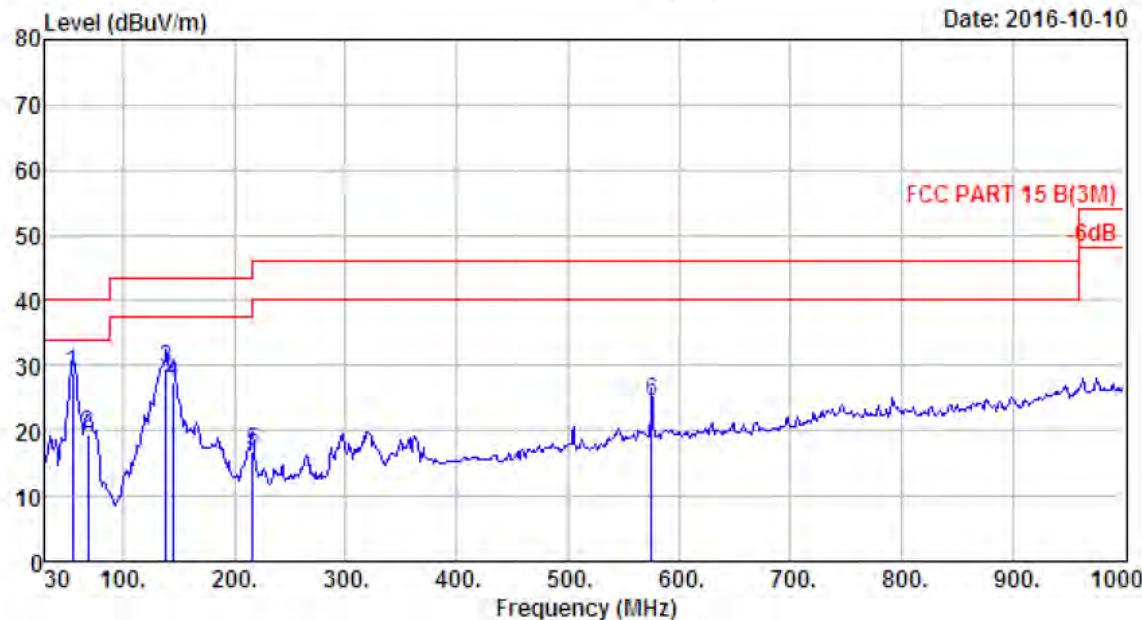
Site no. : 966 1# chamber Data no. : 217  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B (3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	136.70	11.39	1.57	11.49	24.45	43.50	19.05	QP
2	144.46	11.26	1.54	11.05	23.85	43.50	19.65	QP
3	214.30	8.65	1.96	8.65	19.26	43.50	24.24	QP
4	296.75	12.99	2.32	6.79	22.10	46.00	23.90	QP
5	309.36	13.18	2.36	5.28	20.82	46.00	25.18	QP
6	322.94	13.65	2.43	2.64	18.72	46.00	27.28	QP



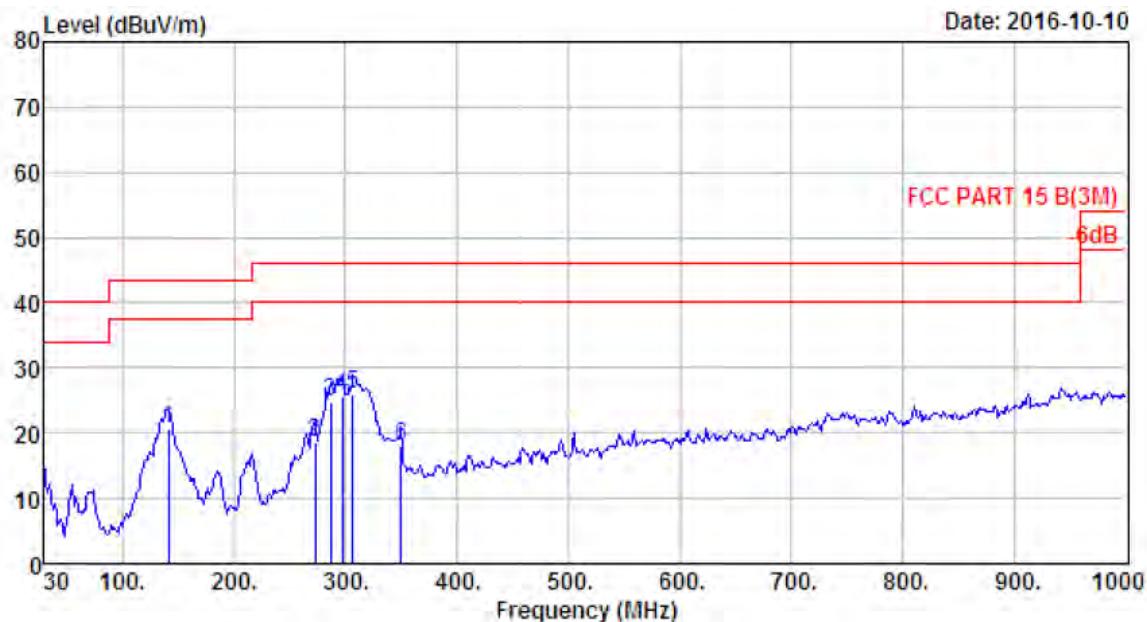
Site no. : 966 1# chamber Data no. : 218  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test 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	37.76	14.05	0.79	3.97	18.81	40.00	21.19	QP
2	57.16	5.06	0.99	17.95	23.90	40.00	16.10	QP
3	125.06	11.35	1.52	7.80	20.67	43.50	22.83	QP
4	138.64	11.42	1.54	11.87	24.83	43.50	18.67	QP
5	185.20	8.48	1.75	7.58	17.81	43.50	25.69	QP
6	216.24	8.80	1.95	6.54	17.29	46.00	28.71	QP



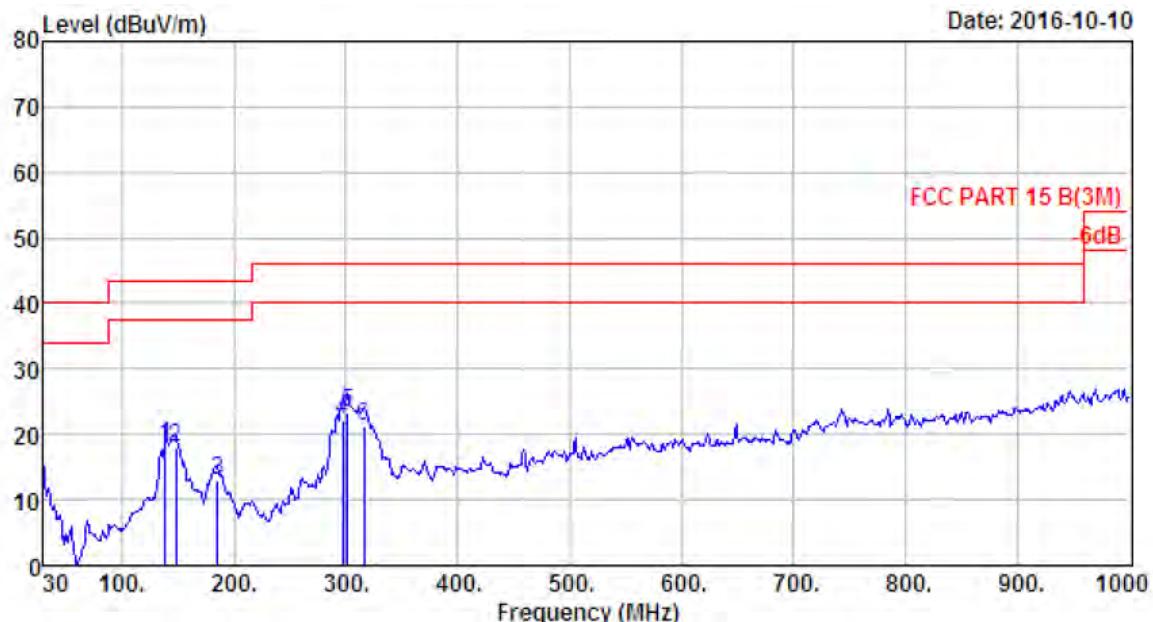
Site no. : 966 1# chamber Data no. : 219  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test 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 54.25	5.82	0.93	22.05	28.80	40.00	11.20	QP
2 68.80	5.51	1.10	12.96	19.57	40.00	20.43	QP
3 138.64	11.42	1.54	16.49	29.45	43.50	14.05	QP
4 144.46	11.26	1.54	14.74	27.54	43.50	15.96	QP
5 216.24	8.80	1.95	6.17	16.92	46.00	29.08	QP
6 575.14	19.55	3.40	1.58	24.53	46.00	21.47	QP



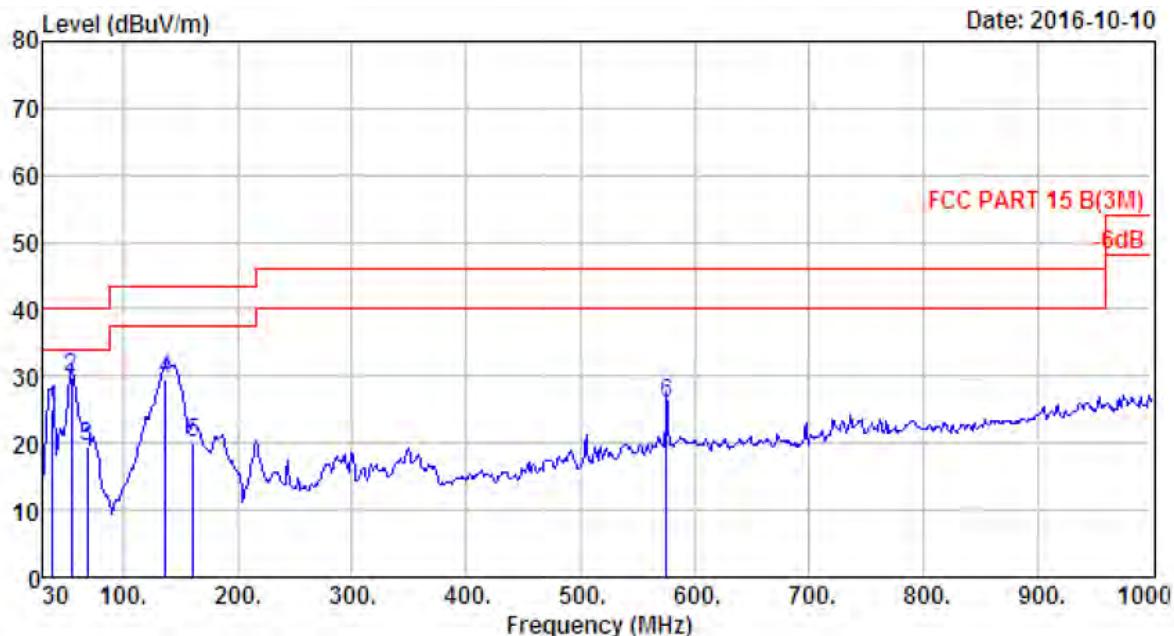
Site no. : 966 1# chamber Data no. : 220  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g CH6 2437TX

	ANT	Cable	Emission				
Freq.	Factor	Loss	Reading	Level	Limit	Margin	Remark
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)	
1 141.55	11.36	1.51	7.82	20.69	43.50	22.81	QP
2 272.50	12.46	2.26	3.99	18.71	46.00	27.29	QP
3 287.05	12.59	2.32	9.89	24.80	46.00	21.20	QP
4 296.75	12.99	2.32	10.36	25.67	46.00	20.33	QP
5 306.45	13.13	2.35	10.36	25.84	46.00	20.16	QP
6 350.10	14.47	2.51	1.12	18.10	46.00	27.90	QP



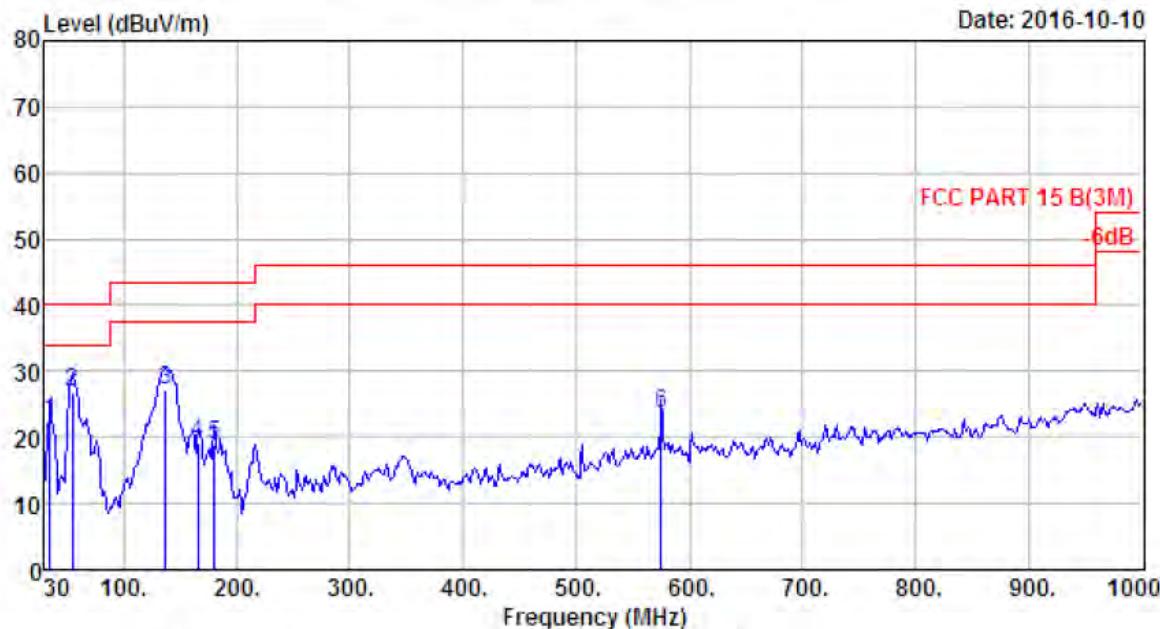
Site no. : 966 1# chamber Data no. : 221  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g CH11 2462TX

	ANT	Cable	Emission				Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 138.64	11.42	1.54	5.22	18.18	43.50	25.32	QP
2 148.34	11.00	1.69	5.19	17.88	43.50	25.62	QP
3 185.20	8.48	1.75	2.79	13.02	43.50	30.48	QP
4 296.75	12.99	2.32	6.93	22.24	46.00	23.76	QP
5 301.60	13.04	2.39	7.85	23.28	46.00	22.72	QP
6 316.15	13.42	2.41	5.35	21.18	46.00	24.82	QP



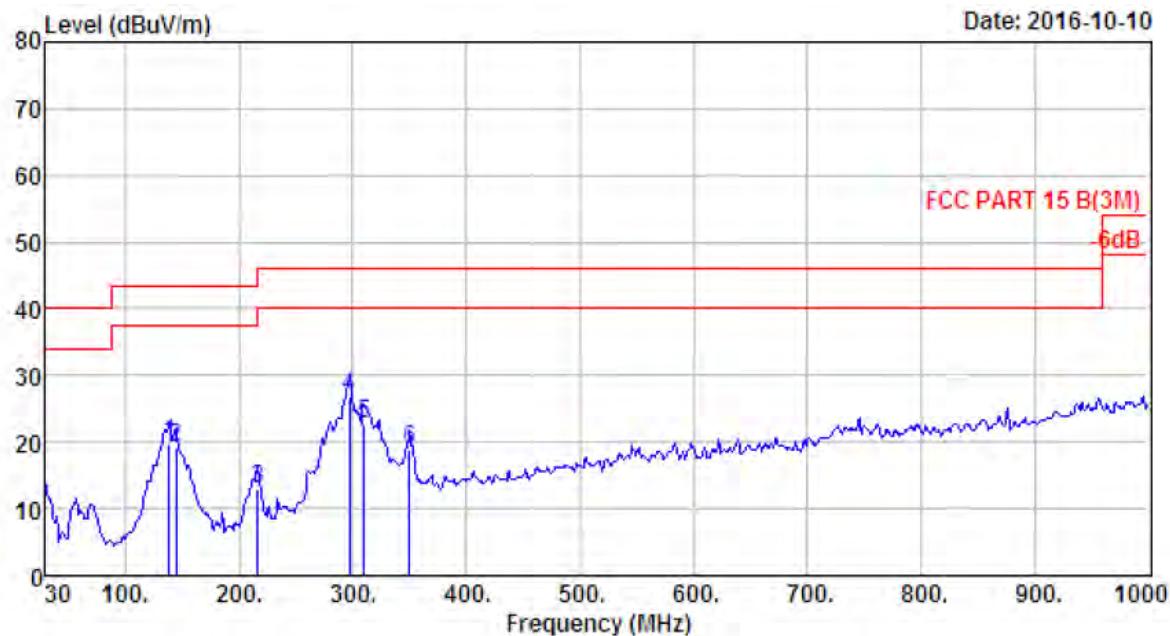
Site no. : 966 1# chamber Data no. : 222  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test 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	37.76	14.05	0.79	10.14	24.98	40.00	15.02	QP
2	54.25	5.82	0.93	23.06	29.81	40.00	10.19	QP
3	68.80	5.51	1.10	12.75	19.36	40.00	20.64	QP
4	136.70	11.39	1.57	16.55	29.51	43.50	13.99	QP
5	160.95	10.24	1.70	8.06	20.00	43.50	23.50	QP
6	575.14	19.55	3.40	2.94	25.89	46.00	20.11	QP



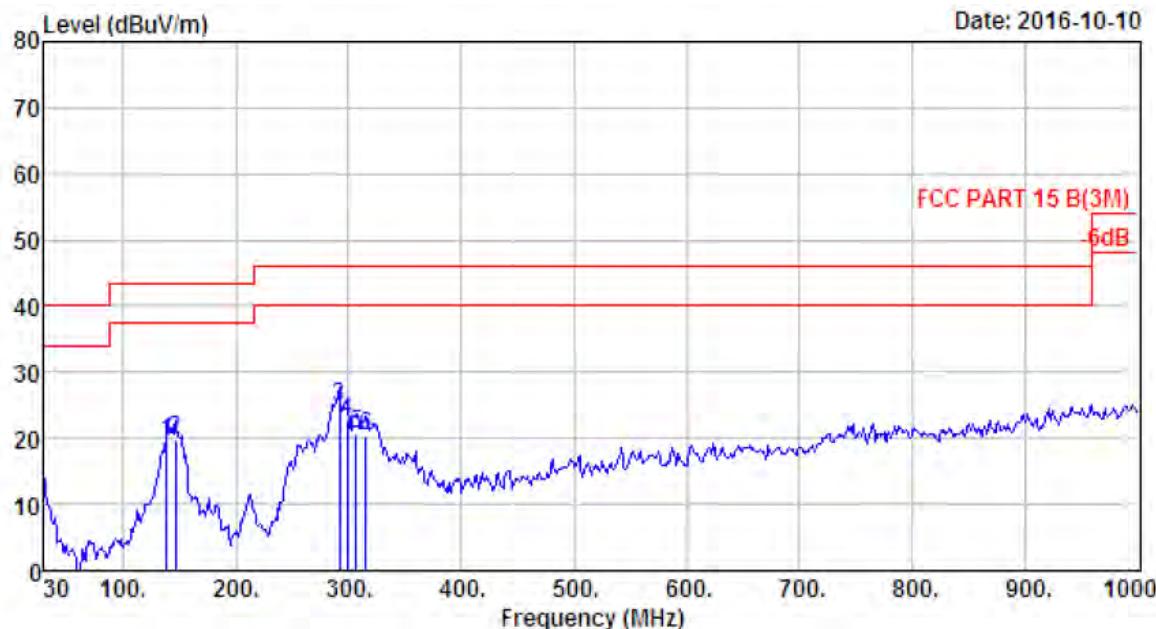
Site no. : 966 1# chamber Data no. : 223  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test 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 34.85	15.55	0.72	6.05	22.32	40.00	17.68	QP
2 54.25	5.82	0.93	20.21	26.96	40.00	13.04	QP
3 136.70	11.39	1.57	14.33	27.29	43.50	16.21	QP
4 165.80	9.66	1.68	7.96	19.30	43.50	24.20	QP
5 180.35	8.95	1.70	8.27	18.92	43.50	24.58	QP
6 575.14	19.55	3.40	0.79	23.74	46.00	22.26	QP



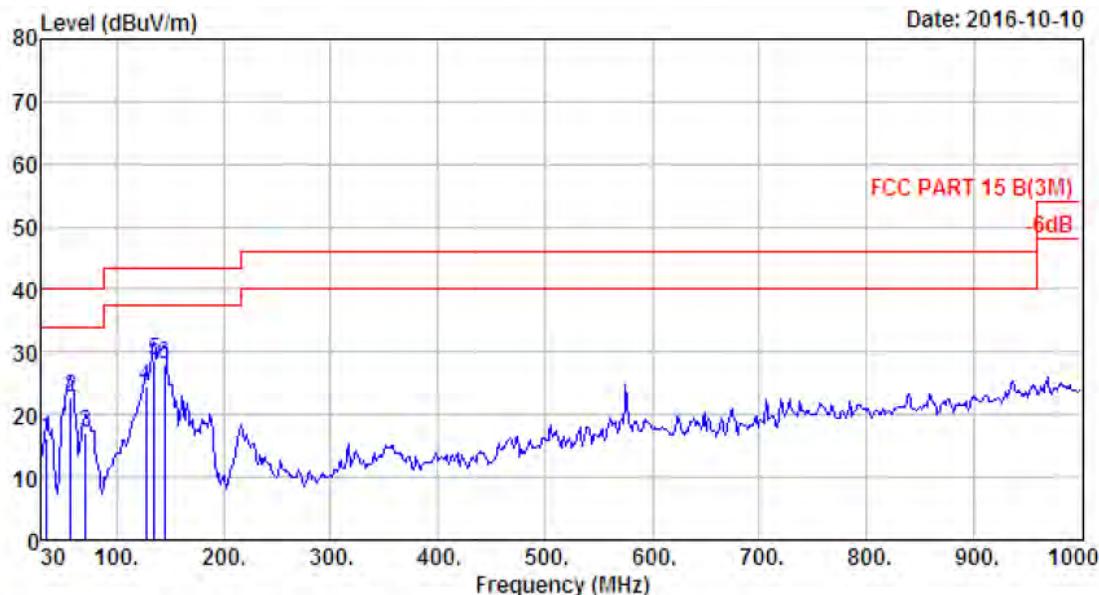
Site no. : 966 1# chamber Data no. : 224  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test 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	138.64	11.42	1.54	6.81	19.77	43.50	23.73	QP
2	144.46	11.26	1.54	6.30	19.10	43.50	24.40	QP
3	216.24	8.80	1.95	2.35	13.10	46.00	32.90	QP
4	296.75	12.99	2.32	11.50	26.81	46.00	19.19	QP
5	310.33	13.20	2.28	7.21	22.69	46.00	23.31	QP
6	350.10	14.47	2.51	1.90	18.88	46.00	27.12	QP



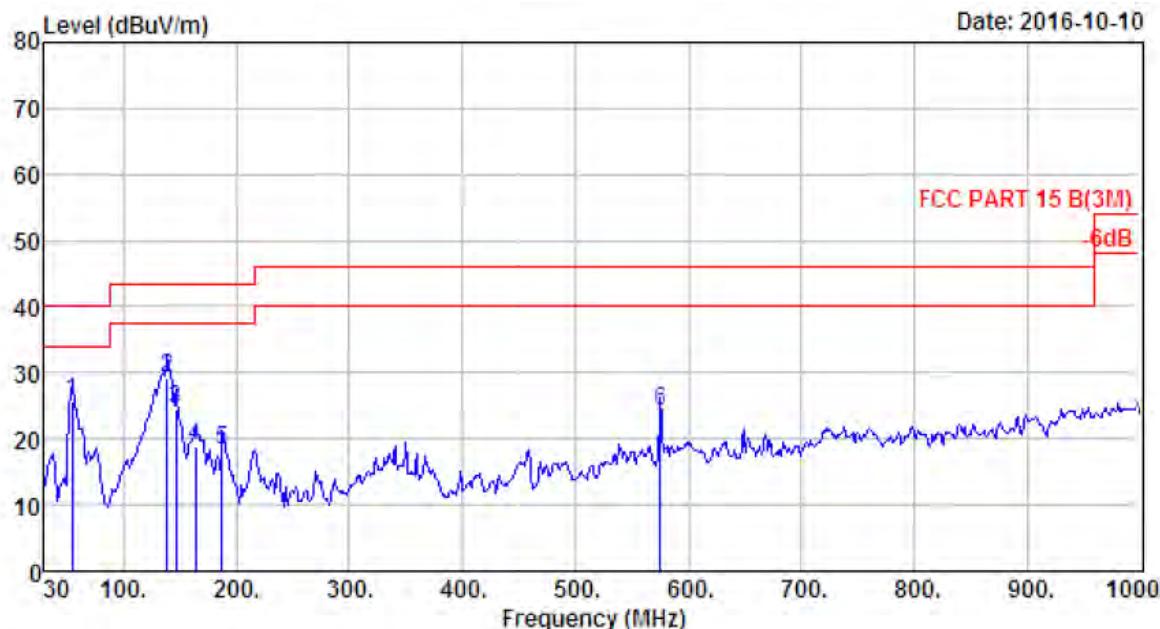
Site no. : 966 1# chamber Data no. : 225  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT20 CH6 2437IX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission			
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 138.64	11.42	1.54	6.54	19.50	43.50	24.00	QP
2 146.40	11.15	1.58	7.11	19.84	43.50	23.66	QP
3 291.90	12.83	2.33	9.52	24.68	46.00	21.32	QP
4 298.69	13.00	2.40	7.33	22.73	46.00	23.27	QP
5 306.45	13.13	2.35	5.27	20.75	46.00	25.25	QP
6 315.18	13.39	2.42	4.48	20.29	46.00	25.71	QP



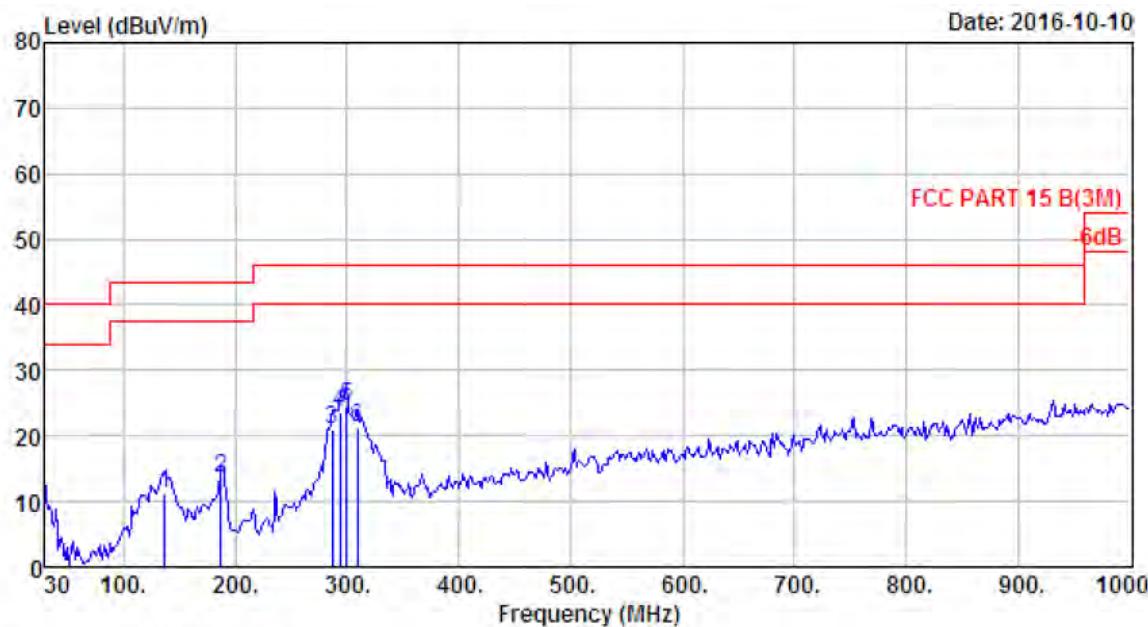
Site no. : 966 1# chamber Data no. : 226  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Margin (dB)	Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)			
1 34.85	15.55	0.72	-0.11	16.16	40.00	23.84	QP	
2 57.16	5.06	0.99	16.79	22.84	40.00	17.16	QP	
3 70.74	5.82	1.04	10.19	17.05	40.00	22.95	QP	
4 127.00	11.34	1.50	11.56	24.40	43.50	19.10	QP	
5 134.76	11.37	1.57	15.62	28.56	43.50	14.94	QP	
6 144.46	11.26	1.54	15.31	28.11	43.50	15.39	QP	



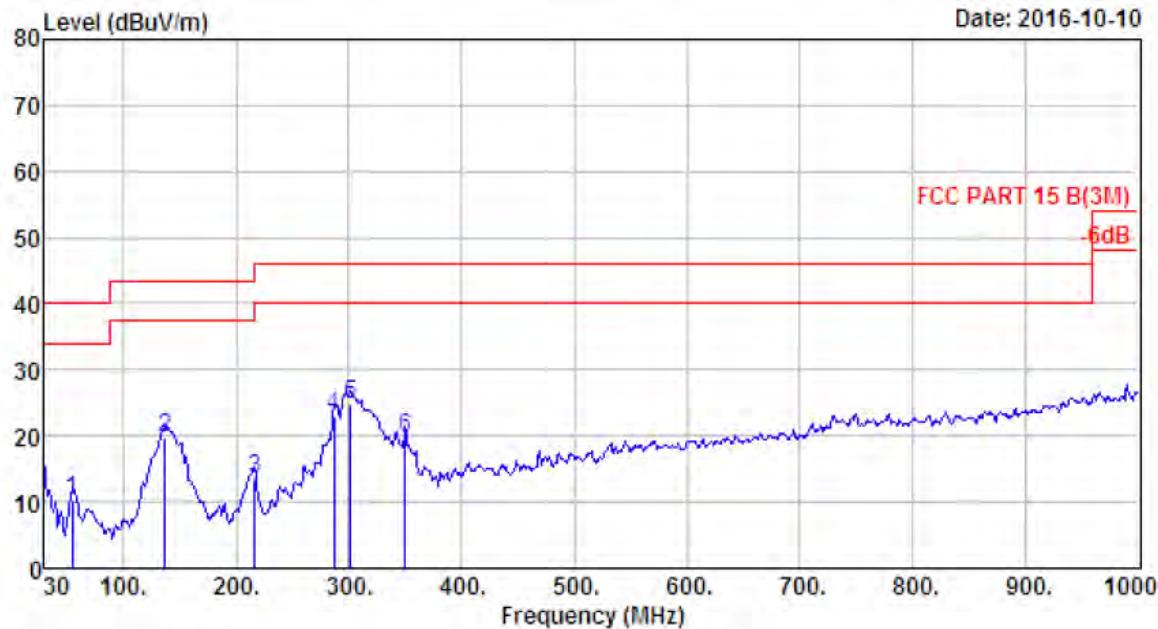
Site no. : 966 1# chamber Data no. : 227  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test 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	54.25	5.82	0.93	18.86	25.61	40.00	14.39	QP
2	138.64	11.42	1.54	16.37	29.33	43.50	14.17	QP
3	146.40	11.15	1.58	11.77	24.50	43.50	19.00	QP
4	163.86	9.89	1.67	7.47	19.03	43.50	24.47	QP
5	187.14	8.26	1.84	8.27	18.37	43.50	25.13	QP
6	575.14	19.55	3.40	1.21	24.16	46.00	21.84	QP



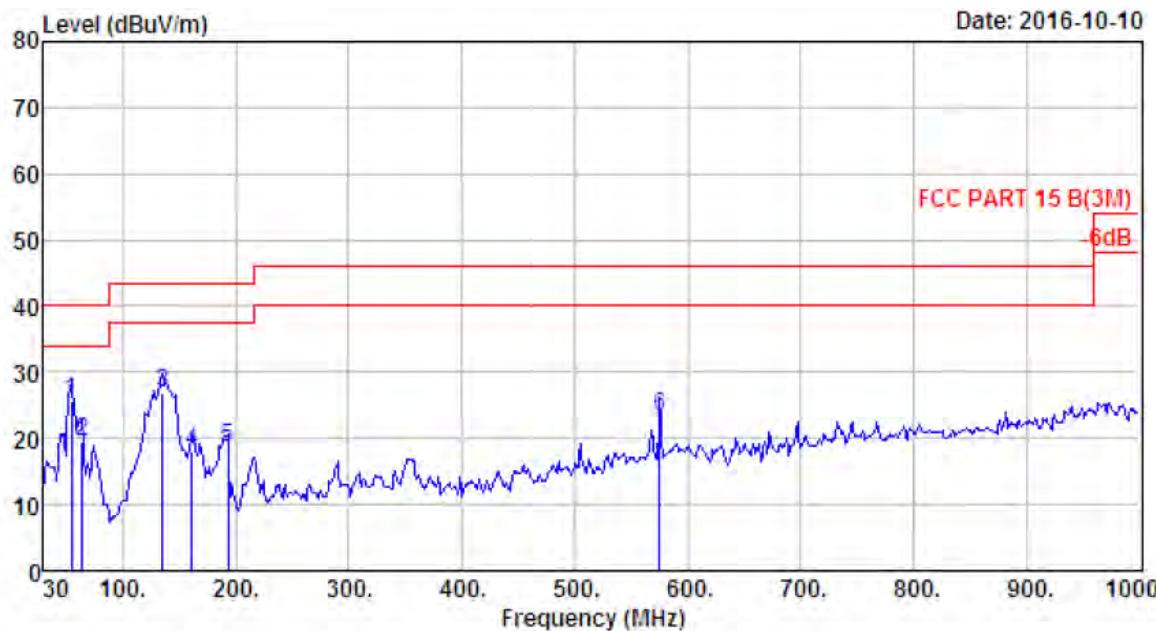
Site no. : 966 1# chamber Data no. : 228  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	ANT	Cable	Emission				
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 136.70	11.39	1.57	-1.64	11.32	43.50	32.18	QP
2 187.14	8.26	1.84	3.34	13.44	43.50	30.06	QP
3 287.05	12.59	2.32	6.15	21.06	46.00	24.94	QP
4 293.84	12.92	2.33	8.39	23.64	46.00	22.36	QP
5 299.66	13.01	2.38	9.23	24.62	46.00	21.38	QP
6 309.36	13.18	2.36	5.72	21.26	46.00	24.74	QP



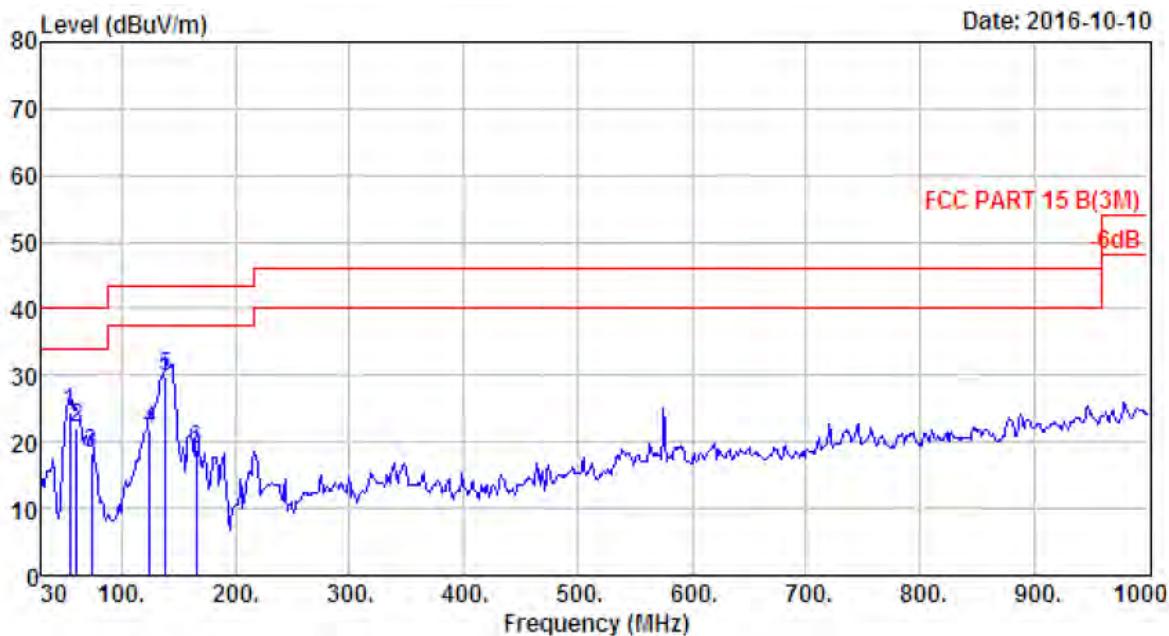
Site no. : 966 1# chamber Data no. : 229  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

	ANT	Cable	Emission				
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1 54.25	5.82	0.93	3.61	10.36	40.00	29.64	QP
2 136.70	11.39	1.57	6.74	19.70	43.50	23.80	QP
3 216.24	8.80	1.95	2.69	13.44	46.00	32.56	QP
4 287.05	12.59	2.32	8.00	22.91	46.00	23.09	QP
5 301.60	13.04	2.39	9.36	24.79	46.00	21.21	QP
6 350.10	14.47	2.51	2.69	19.67	46.00	26.33	QP



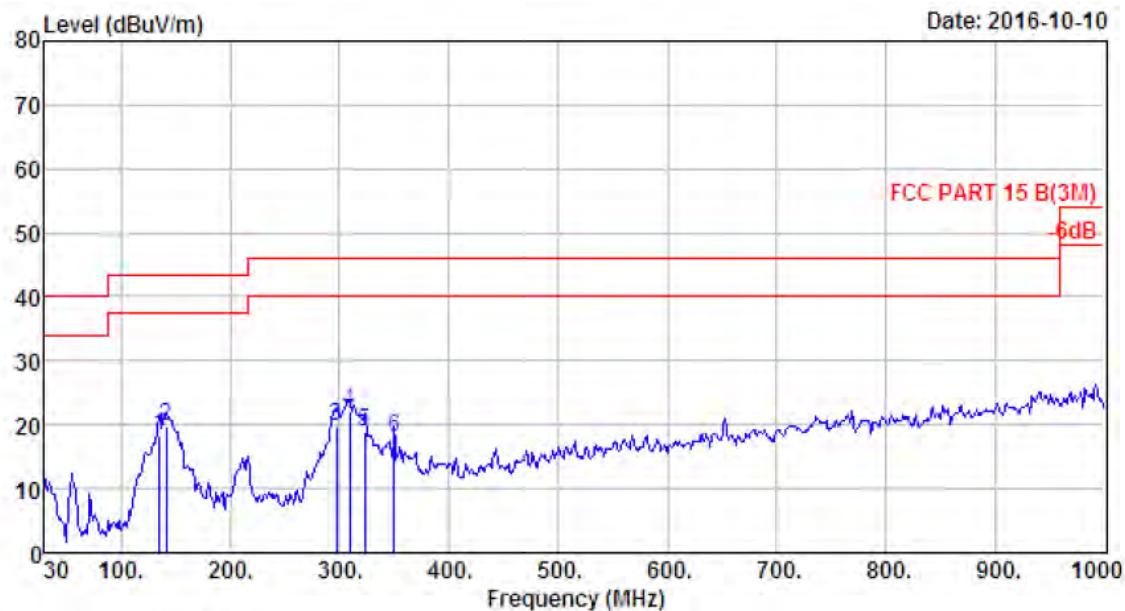
Site no. : 966 1# chamber Data no. : 230  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission				Remark
				Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)		
1 54.25	5.82	0.93	18.81	25.56	40.00	14.44	QP	
2 63.95	4.87	1.02	13.73	19.62	40.00	20.38	QP	
3 134.76	11.37	1.57	14.01	26.95	43.50	16.55	QP	
4 160.95	10.24	1.70	5.96	17.90	43.50	25.60	QP	
5 192.96	7.85	1.77	8.95	18.57	43.50	24.93	QP	
6 575.14	19.55	3.40	0.38	23.33	46.00	22.67	QP	



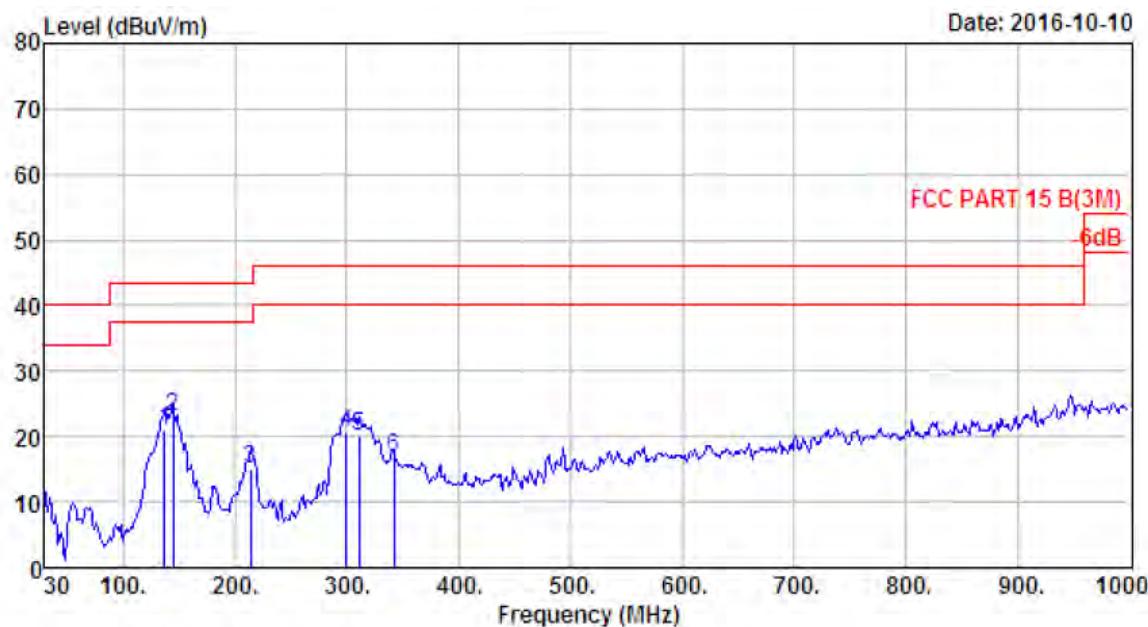
Site no. : 966 1# chamber Data no. : 231  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

	ANT Factor	Cable Loss	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
Freq. (MHz)	(dB/m)	(dB)					
1 54.25	5.82	0.93	17.62	24.37	40.00	15.63	QP
2 61.04	4.74	0.94	16.52	22.20	40.00	17.80	QP
3 73.65	6.22	1.15	10.79	18.16	40.00	21.84	QP
4 125.06	11.35	1.52	9.01	21.88	43.50	21.62	QP
5 138.64	11.42	1.54	16.72	29.68	43.50	13.82	QP
6 165.80	9.66	1.68	7.52	18.86	43.50	24.64	QP



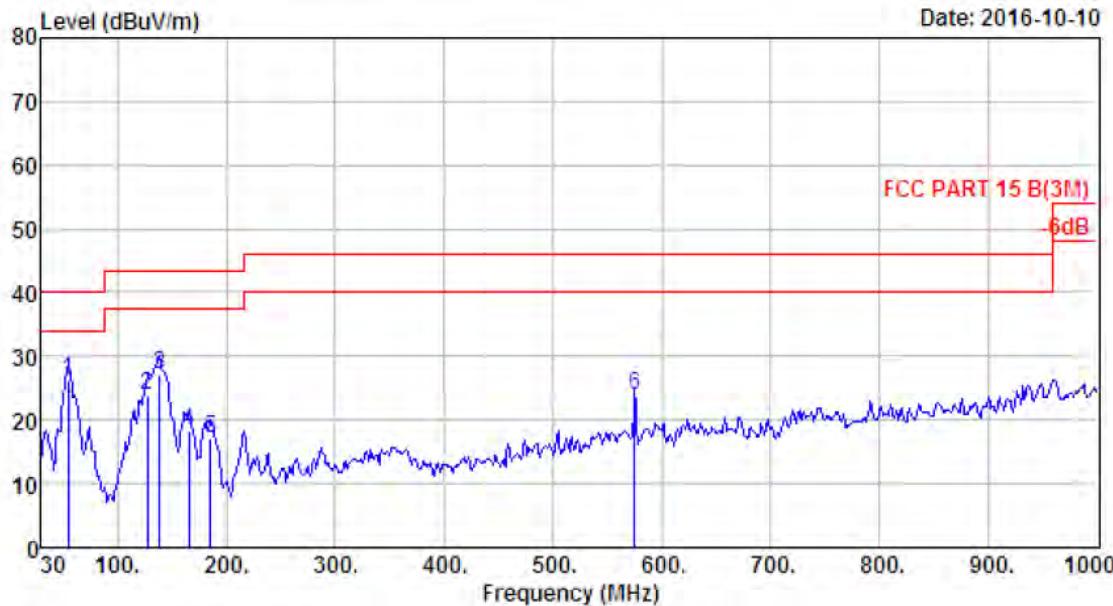
Site no. : 966 1# chamber Data no. : 232  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

	ANT	Cable	Emission				Remark
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 134.76	11.37	1.57	5.22	18.16	43.50	25.34	QP
2 141.55	11.36	1.51	6.84	19.71	43.50	23.79	QP
3 296.75	12.99	2.32	4.46	19.77	46.00	26.23	QP
4 309.36	13.18	2.36	6.50	22.04	46.00	23.96	QP
5 322.94	13.65	2.43	2.79	18.87	46.00	27.13	QP
6 350.10	14.47	2.51	0.89	17.87	46.00	28.13	QP



Site no. : 966 1# chamber Data no. : 233  
 Dis. / Ant. : 3m 27137 Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 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)	
1 136.70	11.39	1.57	7.95	20.91	43.50	22.59	QP
2 144.46	11.26	1.54	10.37	23.17	43.50	20.33	QP
3 214.30	8.65	1.96	4.59	15.20	43.50	28.30	QP
4 299.66	13.01	2.38	5.30	20.69	46.00	25.31	QP
5 311.30	13.24	2.33	4.56	20.13	46.00	25.87	QP
6 342.34	14.22	2.54	0.06	16.82	46.00	29.18	QP



Site no. : 966 1# chamber Data no. : 234  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Emission				Remark
			Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	
1 54.25	5.82	0.93	19.47	26.22	40.00	13.78	QP
2 127.00	11.34	1.50	11.22	24.06	43.50	19.44	QP
3 138.64	11.42	1.54	14.06	27.02	43.50	16.48	QP
4 165.80	9.66	1.68	6.95	18.29	43.50	25.21	QP
5 185.20	8.48	1.75	6.92	17.15	43.50	26.35	QP
6 575.14	19.55	3.40	0.99	23.94	46.00	22.06	QP

## Above 1000MHz

Site no. : 966 1# chamber Data no. : 303  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 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	90.63	90.23	74.00	-16.23	Peak	
2 4824.00	31.28	11.84	35.66	33.30	40.76	74.00	33.24	Peak	
3 7236.00	36.53	11.55	33.99	29.45	43.54	74.00	30.46	Peak	
4 11455.00	39.23	10.96	33.53	28.24	44.90	74.00	29.10	Peak	
5 15450.00	38.10	11.08	32.88	28.81	45.11	74.00	28.89	Peak	
6 17830.00	44.78	11.18	30.50	21.40	46.86	74.00	27.14	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. : 966 1# chamber Data no. : 304  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b CH1 2412TX

	Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	93.50	93.10	74.00	-19.10	Peak
2	4824.00	31.28	11.84	35.66	39.53	46.99	74.00	27.01	Peak
3	7236.00	36.53	11.55	33.99	29.00	43.09	74.00	30.91	Peak
4	8684.00	37.32	11.45	33.66	29.96	45.07	74.00	28.93	Peak
5	13308.00	39.62	11.47	32.94	26.98	45.13	74.00	28.87	Peak
6	17966.00	46.12	11.34	31.76	21.01	46.71	74.00	27.29	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. : 966 1# chamber Data no. : 305  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b CH6 2437TX

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 2437.00	27.60	6.67	34.85	95.10	94.52	74.00	-20.52	Peak
2 4874.00	31.37	12.07	35.76	38.19	45.87	74.00	28.13	Peak
3 7311.00	36.55	11.57	34.12	30.75	44.75	74.00	29.25	Peak
4 14294.00	41.71	10.92	33.42	27.90	47.11	74.00	26.89	Peak
5 15620.00	37.66	11.00	33.29	32.18	47.55	74.00	26.45	Peak
6 17898.00	45.45	11.26	30.94	21.92	47.69	74.00	26.31	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. : 966 1# chamber Data no. : 306  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b CH6 2437TX

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 2437.00	27.60	6.67	34.85	89.79	89.21	74.00	-15.21	Peak	
2 4874.00	31.37	12.07	35.76	33.19	40.87	74.00	33.13	Peak	
3 7311.00	36.55	11.57	34.12	30.26	44.26	74.00	29.74	Peak	
4 8514.00	36.96	11.45	34.07	30.40	44.74	74.00	29.26	Peak	
5 15144.00	39.54	10.93	33.83	29.93	46.57	74.00	27.43	Peak	
6 17813.00	44.62	11.16	30.47	23.54	48.85	74.00	25.15	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. : 966 1# chamber Data no. : 307  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b 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	87.50	86.79	74.00	-12.79	Peak
2	4924.00	31.45	12.29	35.91	35.68	43.51	74.00	30.49	Peak
3	7386.00	36.57	11.59	34.23	30.66	44.59	74.00	29.41	Peak
4	12135.00	38.66	11.28	33.57	30.22	46.59	74.00	27.41	Peak
5	15076.00	39.86	10.89	33.71	29.86	46.90	74.00	27.10	Peak
6	17881.00	45.28	11.24	30.80	20.94	46.66	74.00	27.34	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. : 966 1# chamber Data no. : 308  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 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	90.47	89.76	74.00	-15.76	Peak
2	4924.00	31.45	12.29	35.91	38.15	45.98	74.00	28.02	Peak
3	7386.00	36.57	11.59	34.23	29.35	43.28	74.00	30.72	Peak
4	9126.00	37.62	11.52	34.09	29.57	44.62	74.00	29.38	Peak
5	14396.00	41.79	10.92	33.39	26.89	46.21	74.00	27.79	Peak
6	18000.00	46.45	11.38	32.12	21.02	46.73	74.00	27.27	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. : 966 1# chamber Data no. : 309  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g 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	91.41	91.01	74.00	-17.01	Peak
2 4824.00	31.28	11.84	35.66	34.85	42.31	74.00	31.69	Peak
3 7236.00	36.53	11.55	33.99	28.01	42.10	74.00	31.90	Peak
4 13291.00	39.58	11.47	32.94	26.08	44.19	74.00	29.81	Peak
5 15569.00	37.75	11.04	33.14	29.56	45.21	74.00	28.79	Peak
6 17915.00	45.62	11.28	31.26	22.17	47.81	74.00	26.19	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. : 966 1# chamber Data no. : 310  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g 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	86.50	86.10	74.00	-12.10	Peak	
2 4824.00	31.28	11.84	35.66	31.81	39.27	74.00	34.73	Peak	
3 7236.00	36.53	11.55	33.99	30.46	44.55	74.00	29.45	Peak	
4 11404.00	39.25	10.99	33.57	30.15	46.82	74.00	27.18	Peak	
5 15416.00	38.26	11.06	32.95	30.75	47.12	74.00	26.88	Peak	
6 17898.00	45.45	11.26	30.94	23.68	49.45	74.00	24.55	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. : 966 1# chamber Data no. : 311  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g CH6 2437TX

	Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	89.42	88.84	74.00	-14.84	Peak
2	4874.00	31.37	12.07	35.76	37.27	44.95	74.00	29.05	Peak
3	7311.00	36.55	11.57	34.12	30.41	44.41	74.00	29.59	Peak
4	10180.00	38.42	11.49	34.53	32.20	47.58	74.00	26.42	Peak
5	13325.00	39.66	11.48	32.94	26.83	45.03	74.00	28.97	Peak
6	17745.00	43.95	11.08	30.80	23.79	48.02	74.00	25.98	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. : 966 1# chamber Data no. : 312  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g CH6 2437TX

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 2437.00	27.60	6.67	34.85	86.64	86.06	74.00	-12.06	Peak
2 4874.00	31.37	12.07	35.76	33.24	40.92	74.00	33.08	Peak
3 7311.00	36.55	11.57	34.12	29.27	43.27	74.00	30.73	Peak
4 11285.00	39.33	11.08	33.32	30.45	47.54	74.00	26.46	Peak
5 12866.00	38.86	11.29	33.36	29.88	46.67	74.00	27.33	Peak
6 17864.00	45.12	11.22	30.66	23.74	49.42	74.00	24.58	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. : 966 1# chamber Data no. : 313  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g CH11 2462TX

		Ant.	Cable	Amp	Emission				
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1 2462.00	27.58	6.69	34.98	86.87	86.16	74.00	-12.16	Peak	
2 4924.00	31.45	12.29	35.91	32.87	40.70	74.00	33.30	Peak	
3 7386.00	36.57	11.59	34.23	28.48	42.41	74.00	31.59	Peak	
4 11540.00	39.16	10.95	33.36	27.31	44.06	74.00	29.94	Peak	
5 14481.00	41.86	10.93	33.49	26.87	46.17	74.00	27.83	Peak	
6 17966.00	46.12	11.34	31.76	22.48	48.18	74.00	25.82	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. : 966 1# chamber Data no. : 314  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g CH11 2462TX

		Ant.	Cable	Amp	Emission				
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1 2462.00	27.58	6.69	34.98	90.06	89.35	74.00	-15.35	Peak	
2 4924.00	31.45	12.29	35.91	37.14	44.97	74.00	29.03	Peak	
3 7386.00	36.57	11.59	34.23	30.29	44.22	74.00	29.78	Peak	
4 9160.00	37.69	11.54	34.07	29.97	45.13	74.00	28.87	Peak	
5 13784.00	40.88	11.16	33.05	26.86	45.85	74.00	28.15	Peak	
6 17915.00	45.62	11.28	31.26	20.80	46.44	74.00	27.56	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. : 966 1# chamber Data no. : 315  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp		Emission			Margin (dB)	Remark
			Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2412.00	27.60	6.64	34.64	83.83	83.43	74.00	-9.43	Peak	
2 4824.00	31.28	11.84	35.66	31.77	39.23	74.00	34.77	Peak	
3 7236.00	36.53	11.55	33.99	29.78	43.87	74.00	30.13	Peak	
4 9228.00	37.80	11.57	34.31	32.13	47.19	74.00	26.81	Peak	
5 14005.00	41.46	10.90	33.01	27.76	47.11	74.00	26.89	Peak	
6 17286.00	40.78	10.88	31.41	27.47	47.72	74.00	26.28	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. : 966 1# chamber Data no. : 316  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

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 2412.00	27.60	6.64	34.64	87.33	86.93	74.00	-12.93	Peak	
2 4824.00	31.28	11.84	35.66	34.54	42.00	74.00	32.00	Peak	
3 7236.00	36.53	11.55	33.99	30.74	44.83	74.00	29.17	Peak	
4 10996.00	39.52	11.29	34.11	30.37	47.07	74.00	26.93	Peak	
5 14124.00	41.57	10.91	33.22	27.11	46.37	74.00	27.63	Peak	
6 17966.00	46.12	11.34	31.76	23.23	48.93	74.00	25.07	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. : 966 1# chamber Data no. : 317  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Emission				Margin (dB)	Remarks
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2437.00	27.60	6.67	34.85	85.45	84.87	74.00	-10.87	Peak	
2 4874.00	31.37	12.07	35.76	32.99	40.67	74.00	33.33	Peak	
3 7311.00	36.55	11.57	34.12	28.86	42.86	74.00	31.14	Peak	
4 11064.00	39.48	11.24	33.83	28.84	45.73	74.00	28.27	Peak	
5 14056.00	41.51	10.90	33.06	26.71	46.06	74.00	27.94	Peak	
6 18000.00	46.45	11.38	32.12	22.69	48.40	74.00	25.60	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. : 966 1# chamber Data no. : 318  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

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 2437.00	27.60	6.67	34.85	87.80	87.22	74.00	-13.22	Peak	
2 4874.00	31.37	12.07	35.76	39.07	46.75	74.00	27.25	Peak	
3 7311.00	36.55	11.57	34.12	31.33	45.33	74.00	28.67	Peak	
4 11336.00	39.30	11.04	33.44	28.72	45.62	74.00	28.38	Peak	
5 17286.00	40.78	10.88	31.41	27.65	47.90	74.00	26.10	Peak	
6 17966.00	46.12	11.34	31.76	23.38	49.08	74.00	24.92	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. : 966 1# chamber Data no. : 319  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission				Margin (dB)	Remark
					Level (dBuV/m)	Limits (dBuV/m)				
1 2462.00	27.58	6.69	34.98	87.62	86.91	74.00	-	-12.91		Peak
2 4924.00	31.45	12.29	35.91	38.45	46.28	74.00	-	27.72		Peak
3 7386.00	36.57	11.59	34.23	31.28	45.21	74.00	-	28.79		Peak
4 14005.00	41.46	10.90	33.01	26.39	45.74	74.00	-	28.26		Peak
5 15144.00	39.54	10.93	33.83	29.16	45.80	74.00	-	28.20		Peak
6 18000.00	46.45	11.38	32.12	20.76	46.47	74.00	-	27.53		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. : 966 1# chamber Data no. : 320  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT20 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	86.08	85.37	74.00	-11.37	Peak
2	4924.00	31.45	12.29	35.91	34.48	42.31	74.00	31.69	Peak
3	7386.00	36.57	11.59	34.23	29.38	43.31	74.00	30.69	Peak
4	10724.00	39.22	11.30	34.14	30.03	46.41	74.00	27.59	Peak
5	14056.00	41.51	10.90	33.06	26.88	46.23	74.00	27.77	Peak
6	17932.00	45.78	11.30	31.26	21.38	47.20	74.00	26.80	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. : 966 1# chamber Data no. : 321  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 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 2422.00	27.60	6.66	34.74	85.27	84.79	74.00	-10.79	Peak	
2 4844.00	31.31	11.92	35.68	35.89	43.44	74.00	30.56	Peak	
3 7266.00	36.54	11.56	34.05	27.92	41.97	74.00	32.03	Peak	
4 11268.00	39.34	11.09	33.28	28.41	45.56	74.00	28.44	Peak	
5 15246.00	39.06	10.98	33.69	29.74	46.09	74.00	27.91	Peak	
6 17847.00	44.95	11.20	30.52	24.31	49.94	74.00	24.06	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. : 966 1# chamber Data no. : 322  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

		Ant.	Cable	Amp	Emission				
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1 2422.00	27.60	6.66	34.74	81.90	81.42	74.00	-7.42	Peak	
2 4844.00	31.31	11.92	35.68	31.84	39.39	74.00	34.61	Peak	
3 7266.00	36.54	11.56	34.05	28.58	42.63	74.00	31.37	Peak	
4 11234.00	39.37	11.12	33.25	28.86	46.10	74.00	27.90	Peak	
5 14515.00	41.89	10.93	33.57	28.79	48.04	74.00	25.96	Peak	
6 17881.00	45.28	11.24	30.80	23.82	49.54	74.00	24.46	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. : site Data no. : 323  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

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 2437.00	27.60	6.67	34.85	86.36	85.78	74.00	-11.78	Peak
2 4874.00	31.37	12.07	35.76	35.92	43.60	74.00	30.40	Peak
3 7311.00	36.55	11.57	34.12	30.91	44.91	74.00	29.09	Peak
4 9670.00	38.01	11.67	35.09	31.93	46.52	74.00	27.48	Peak
5 13580.00	40.31	11.40	32.64	27.28	46.35	74.00	27.65	Peak
6 17966.00	46.12	11.34	31.76	23.38	49.08	74.00	24.92	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. : 966 1# chamber Data no. : 324  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH6 2437TX

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 2437.00	27.60	6.67	34.85	84.26	83.68	74.00	-9.68	Peak
2 4874.00	31.37	12.07	35.76	31.73	39.41	74.00	34.59	Peak
3 7311.00	36.55	11.57	34.12	29.31	43.31	74.00	30.69	Peak
4 11200.00	39.39	11.14	33.24	27.51	44.80	74.00	29.20	Peak
5 15501.00	37.86	11.10	32.92	30.13	46.17	74.00	27.83	Peak
6 18000.00	46.45	11.38	32.12	22.59	48.30	74.00	25.70	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. : 966 1# chamber Data no. : 325  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

		Ant.	Cable	Amp	Emission				
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1 2452.00	27.59	6.67	34.85	83.30	82.71	74.00	-8.71	Peak	
2 4904.00	31.42	12.22	35.87	31.06	38.83	74.00	35.17	Peak	
3 7356.00	36.56	11.58	34.19	28.44	42.39	74.00	31.61	Peak	
4 11285.00	39.33	11.08	33.32	22.42	39.51	74.00	34.49	Peak	
5 13750.00	40.78	11.20	33.02	23.44	42.40	74.00	31.60	Peak	
6 17813.00	44.62	11.16	30.47	22.56	47.87	74.00	26.13	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. : 966 1# chamber Data no. : 326  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

Freq. (MHz)	Ant.	Cable	Amp	Emission			Limits (dBuV/m)	Margin (dB)	Remark
	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)				
1 2452.00	27.59	6.67	34.85	86.62	86.03	74.00	-12.03	Peak	
2 4904.00	31.42	12.22	35.87	34.67	42.44	74.00	31.56	Peak	
3 7352.00	36.56	11.58	34.19	29.45	43.40	74.00	30.60	Peak	
4 11200.00	39.39	11.14	33.24	27.23	44.52	74.00	29.48	Peak	
5 14175.00	41.61	10.91	33.35	26.21	45.38	74.00	28.62	Peak	
6 18000.00	46.45	11.38	32.12	21.03	46.74	74.00	27.26	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.

## 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

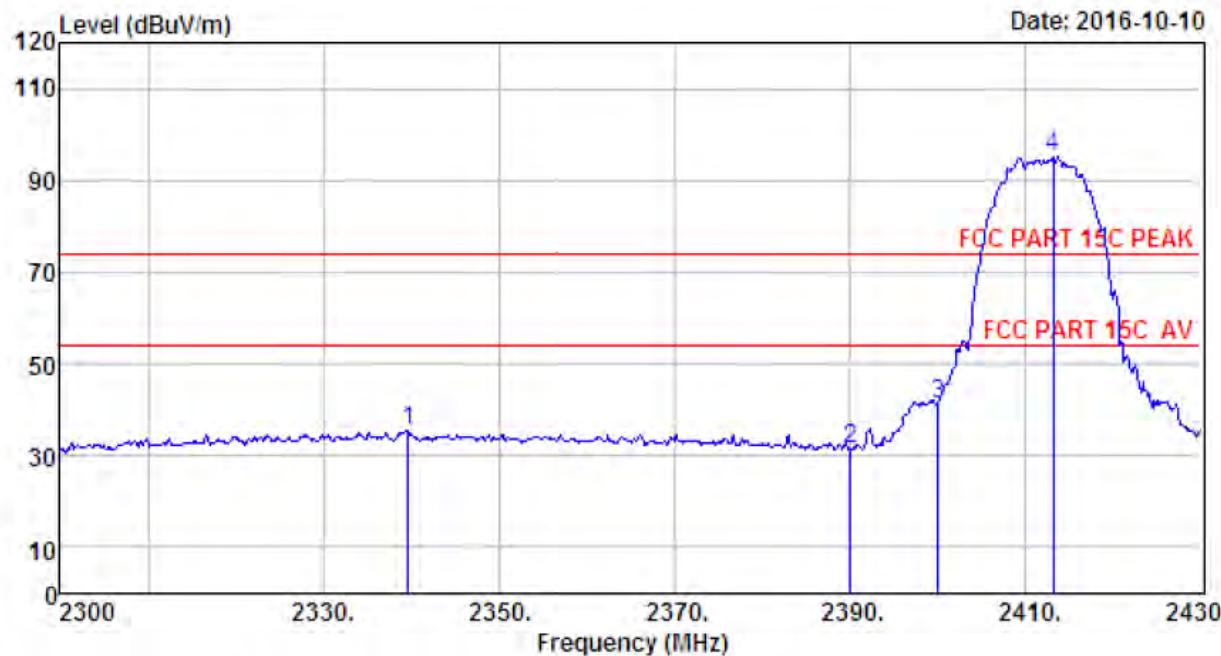
1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out 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.

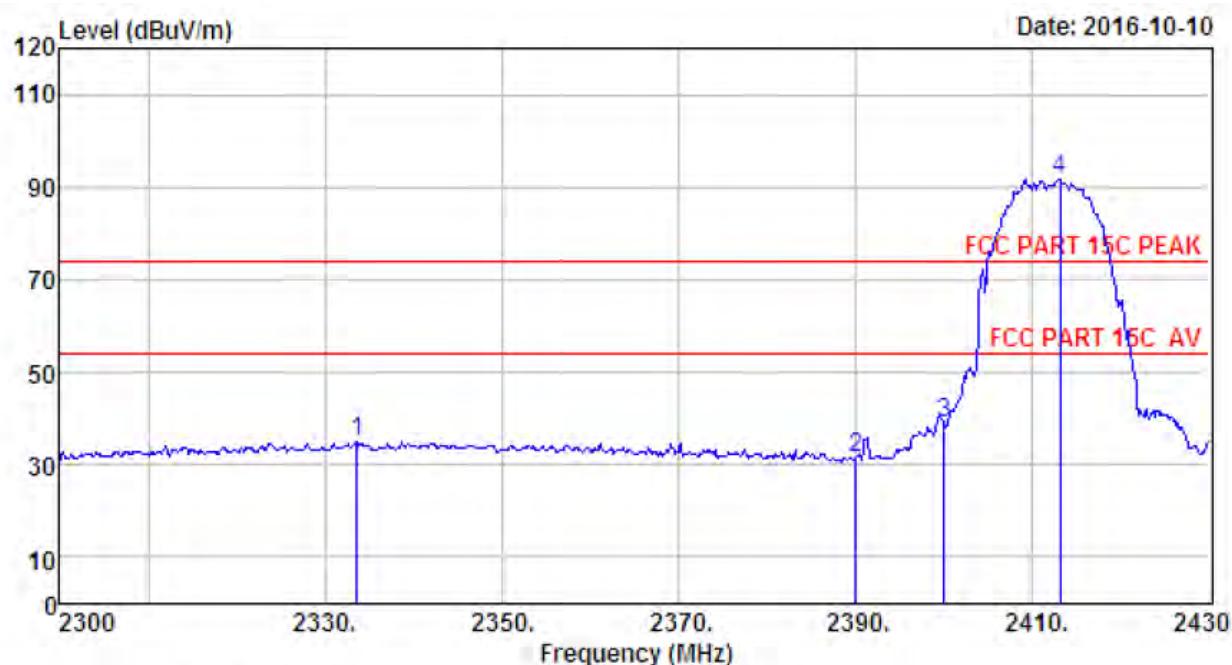
## 5.4 Test Data



Site no. : 966 1# chamber Data no. : 327  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b 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	2339.65	27.70	6.56	34.59	35.67	35.34	74.00	38.66	Peak
2	2390.00	27.64	6.62	34.62	31.60	31.24	74.00	42.76	Peak
3	2400.00	27.61	6.62	34.64	41.75	41.34	74.00	32.66	Peak
4	2413.10	27.60	6.64	34.64	95.78	95.38	74.00	-21.38	Peak

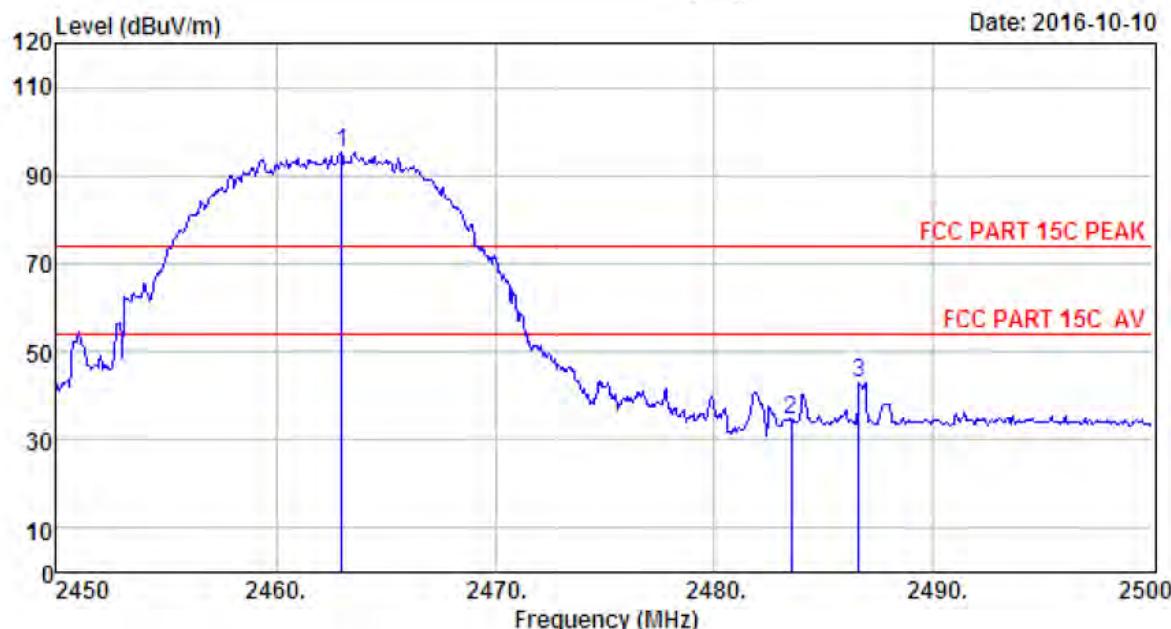
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 328  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b 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	2333.54	27.73	6.54	34.59	35.11	34.79	74.00	39.21	Peak
2	2390.00	27.64	6.62	34.62	31.81	31.45	74.00	42.55	Peak
3	2400.00	27.61	6.62	34.64	39.29	38.88	74.00	35.12	Peak
4	2413.10	27.60	6.64	34.64	92.25	91.85	74.00	-17.85	Peak

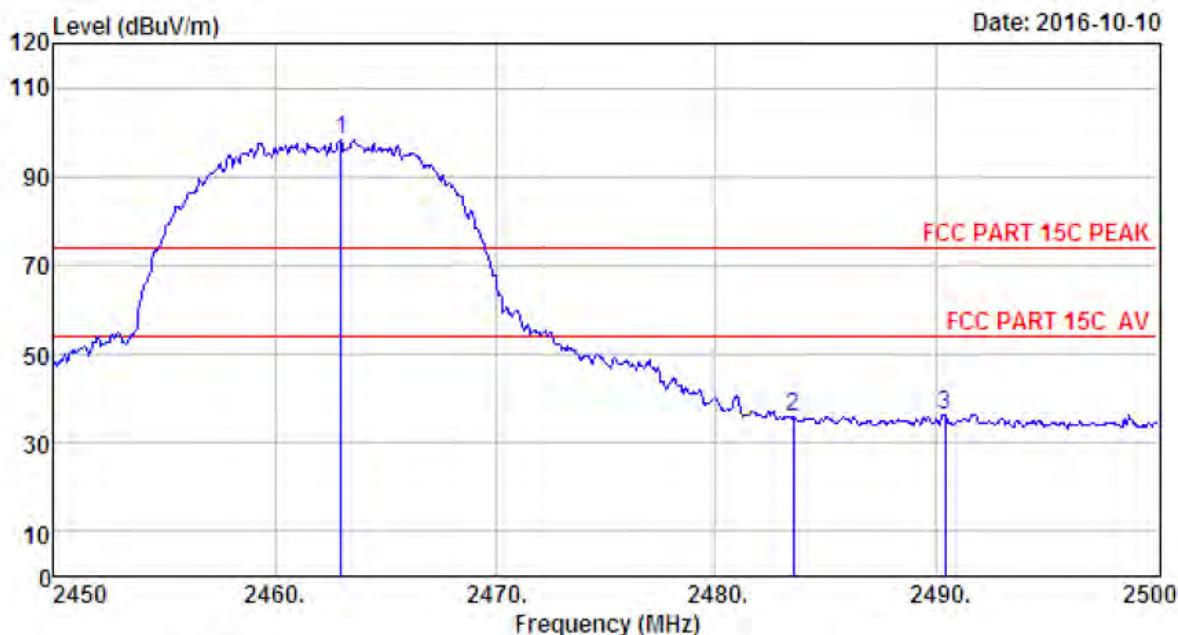
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 329  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b CH11 2462TX

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission			Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)				
1 2463.00	27.58	6.69	34.98	96.07	95.36	74.00	-21.36	Peak	
2 2483.50	27.58	6.71	35.11	35.17	34.35	74.00	39.65	Peak	
3 2486.60	27.58	6.71	35.11	43.89	43.07	74.00	30.93	Peak	

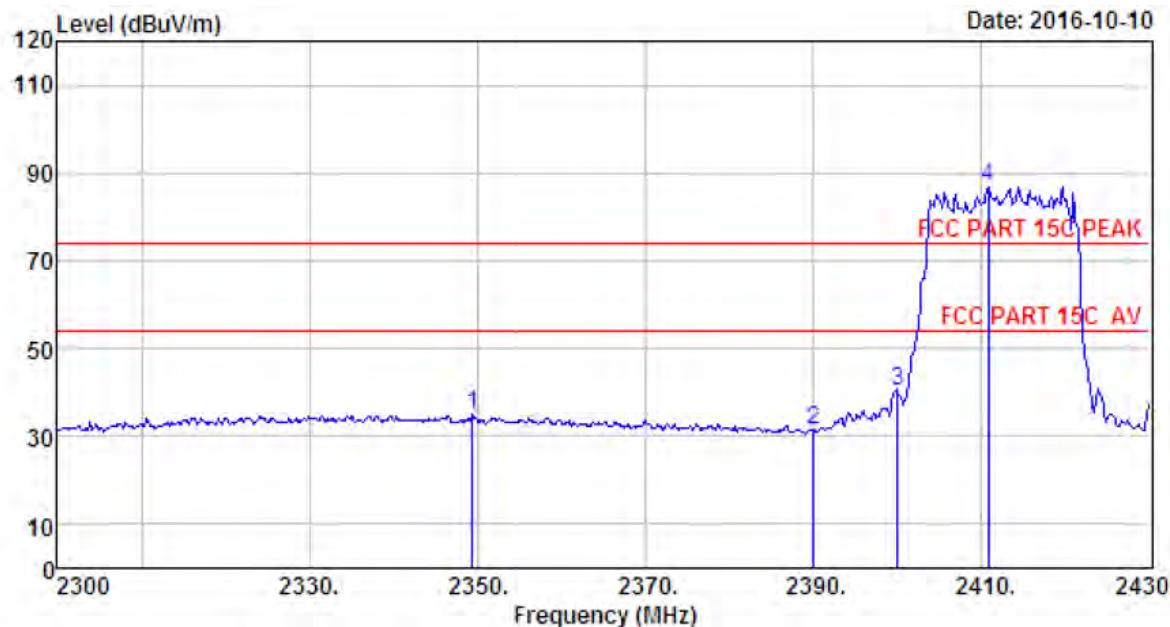
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading,  
 2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : 966 1# chamber Data no. : 330  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11b CH11 2462TX

	Ant.	Cable	Amp	Emission					
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1 2463.00	27.58	6.69	34.98	99.07	98.36	74.00	-24.36	Peak	
2 2483.50	27.58	6.71	35.11	36.66	35.84	74.00	38.16	Peak	
3 2490.40	27.58	6.73	35.24	37.45	36.52	74.00	37.48	Peak	

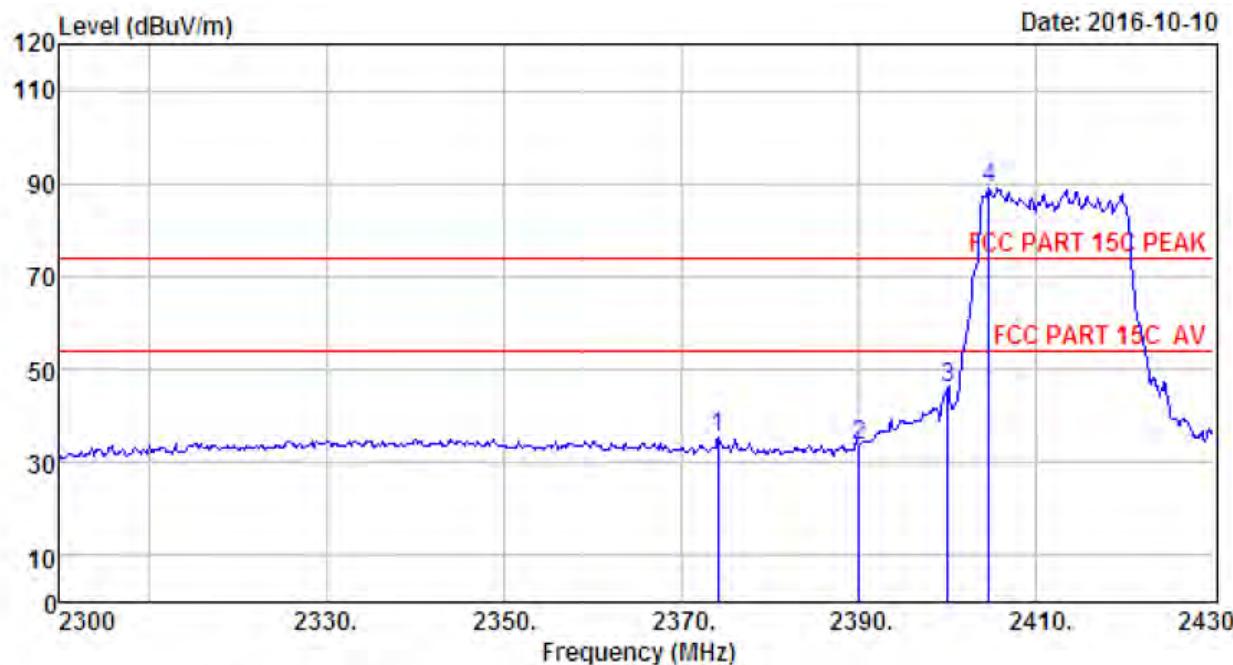
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 331  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g 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 2349.40	27.70	6.56	34.57	35.15	34.84	74.00	39.16	Peak	
2 2390.00	27.64	6.62	34.62	31.73	31.37	74.00	42.63	Peak	
3 2400.00	27.61	6.62	34.64	40.49	40.08	74.00	33.92	Peak	
4 2410.76	27.60	6.64	34.64	87.28	86.88	74.00	-12.88	Peak	

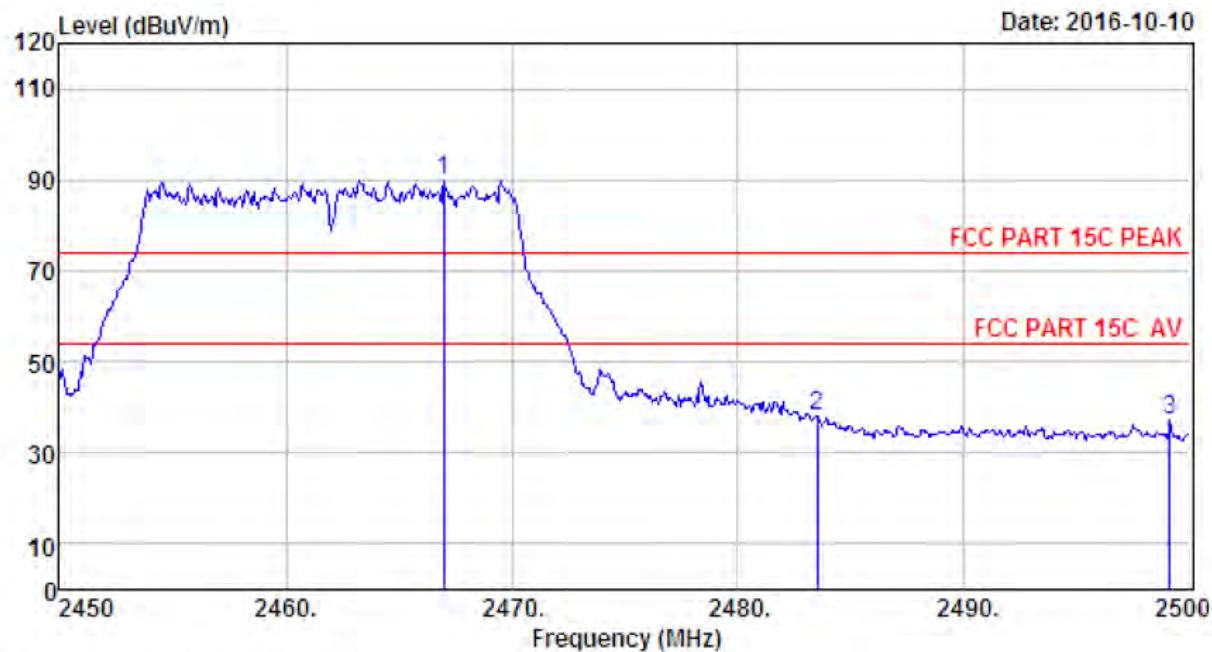
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 332  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 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	2374.10	27.64	6.60	34.59	35.83	35.48	74.00	38.52	Peak
2	2390.00	27.64	6.62	34.62	34.19	33.83	74.00	40.17	Peak
3	2400.00	27.61	6.62	34.64	46.37	45.96	74.00	28.04	Peak
4	2404.65	27.61	6.64	34.64	89.55	89.16	74.00	-15.16	Peak

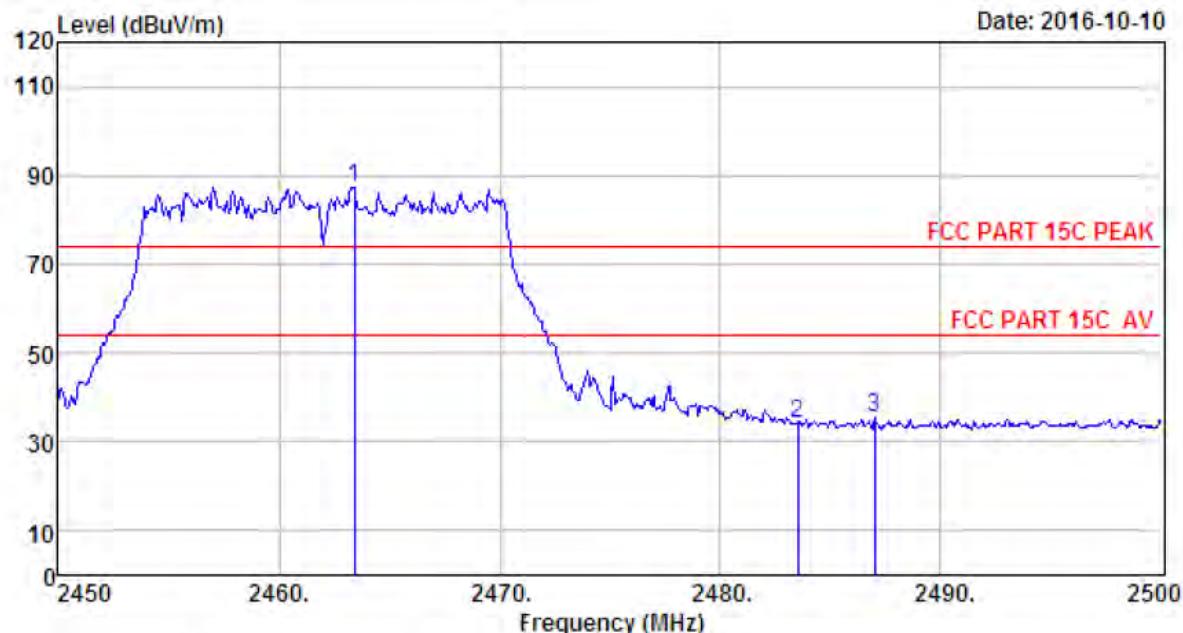
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 333  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g CH11 2462TX

	Ant.	Cable	Amp	Emission					
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1 2467.00	27.58	6.69	34.98	90.43	89.72	74.00	-15.72	Peak	
2 2483.50	27.58	6.71	35.11	38.83	38.01	74.00	35.99	Peak	
3 2499.10	27.57	6.73	35.24	37.98	37.04	74.00	36.96	Peak	

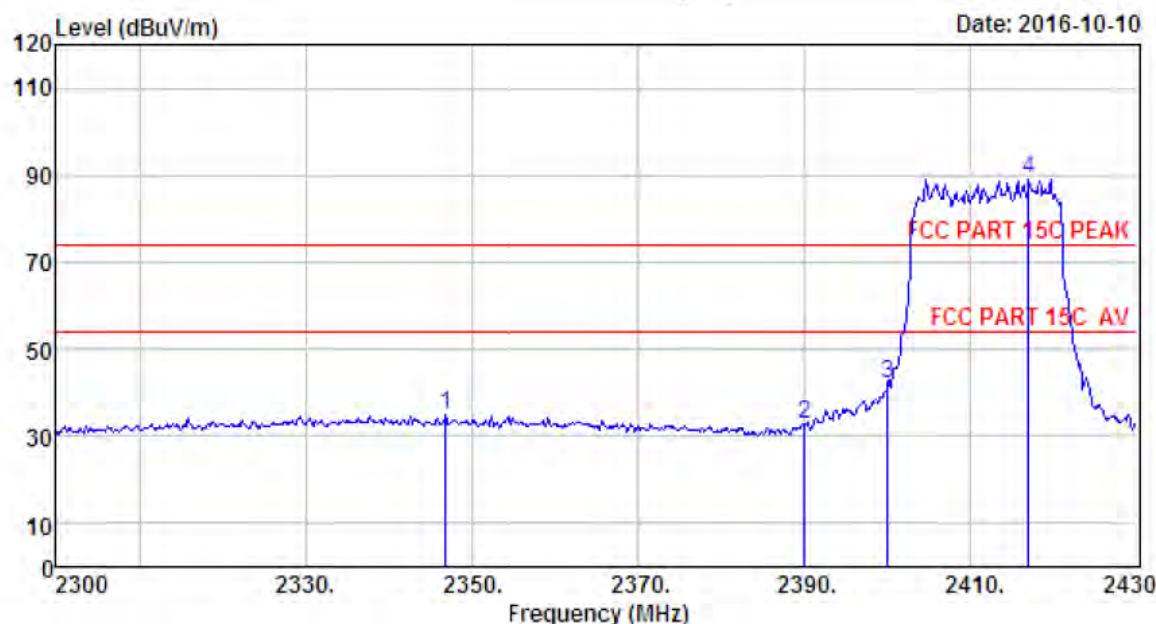
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 334  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11g CH11 2462TX

	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	2463.40	27.58	6.69	34.98	87.99	87.28	74.00	-13.28	Peak
2	2483.50	27.58	6.71	35.11	35.10	34.28	74.00	39.72	Peak
3	2487.00	27.58	6.71	35.11	36.08	35.26	74.00	38.74	Peak

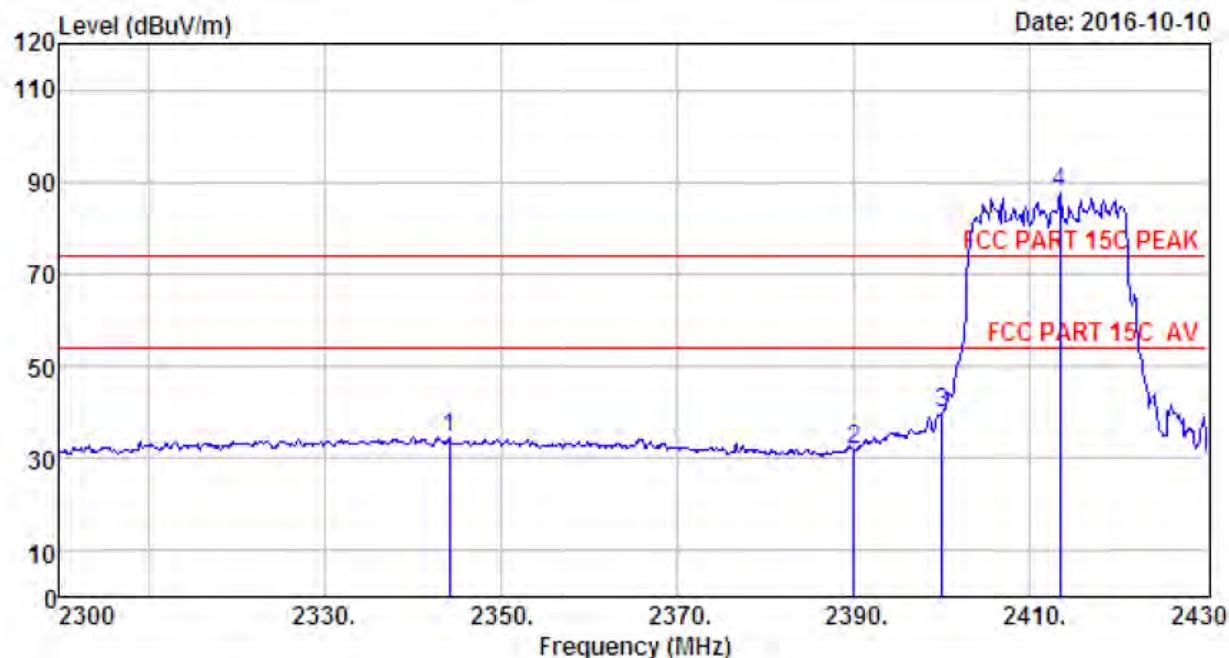
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 335  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT20 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 2346.80	27.70	6.56	34.57	35.46	35.15	74.00	38.85	Peak
2 2390.00	27.64	6.62	34.62	32.94	32.58	74.00	41.42	Peak
3 2400.00	27.61	6.62	34.64	42.39	41.98	74.00	32.02	Peak
4 2417.00	27.60	6.64	34.64	89.58	89.18	74.00	-15.18	Peak

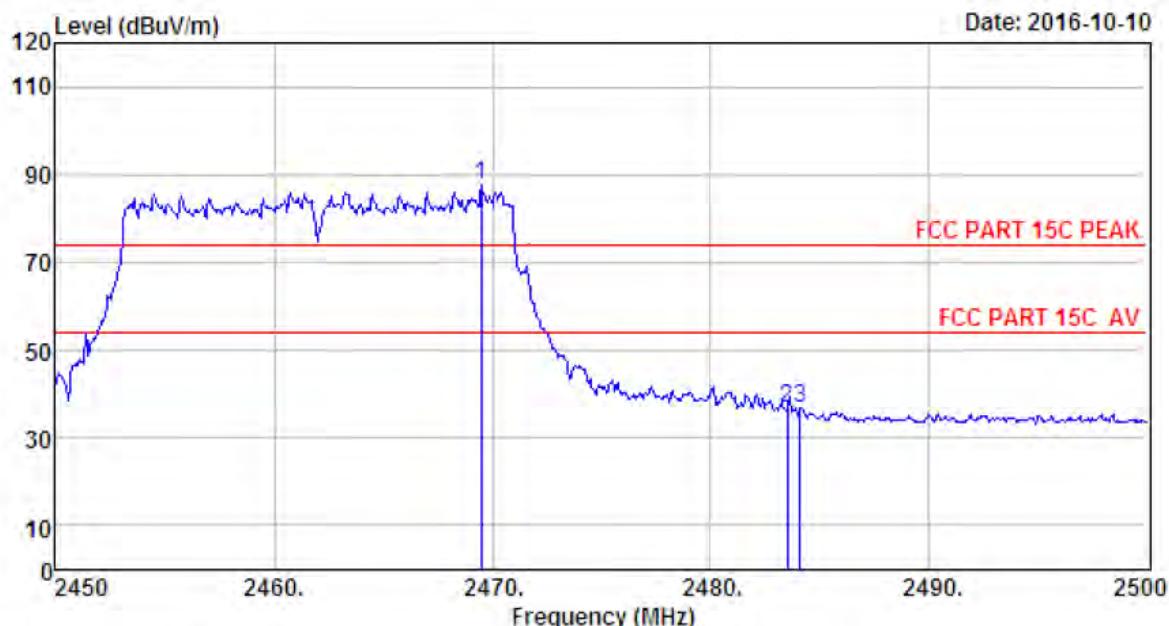
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 336  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 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 2344.20	27.70	6.56	34.59	34.90	34.57	74.00	39.43	Peak
2 2390.00	27.64	6.62	34.62	32.30	31.94	74.00	42.06	Peak
3 2400.00	27.61	6.62	34.64	40.46	40.05	74.00	33.95	Peak
4 2413.36	27.60	6.64	34.64	87.86	87.46	74.00	-13.46	Peak

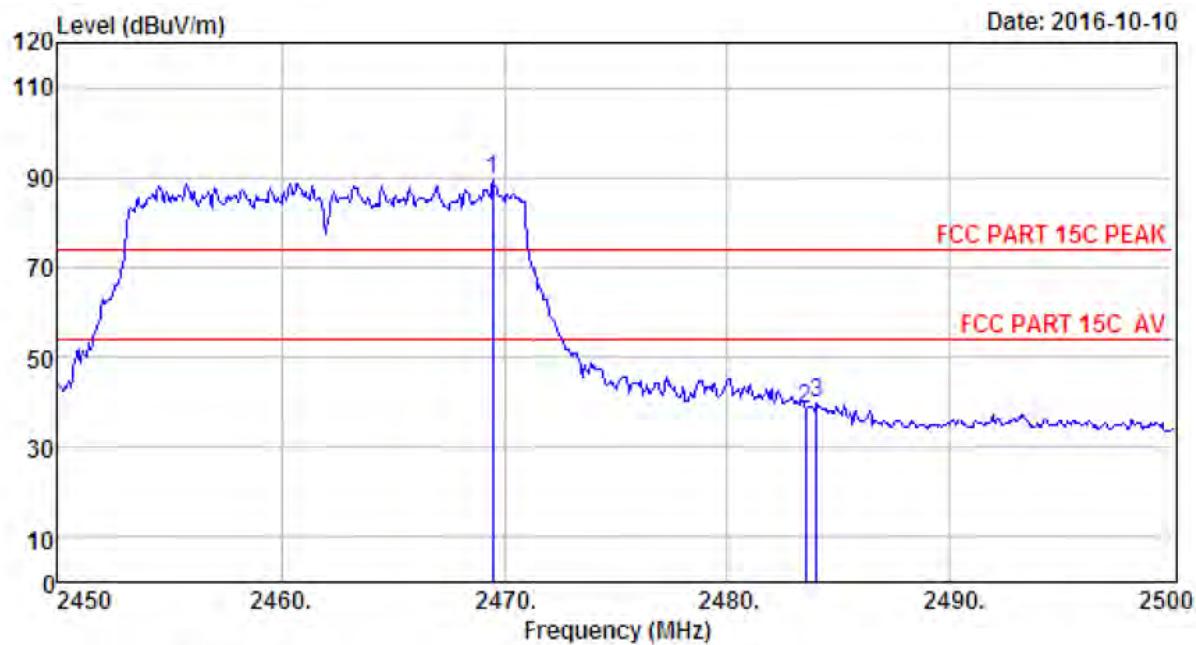
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 337  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

Freq. (MHz)	Ant. Factor	Cable Loss	Amp Factor	Emission				Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)			
1 2469.50	27.58	6.69	34.98	88.23	87.52	74.00	-13.52	Peak	
2 2483.50	27.58	6.71	35.11	37.36	36.54	74.00	37.46	Peak	
3 2484.10	27.58	6.71	35.11	37.65	36.83	74.00	37.17	Peak	

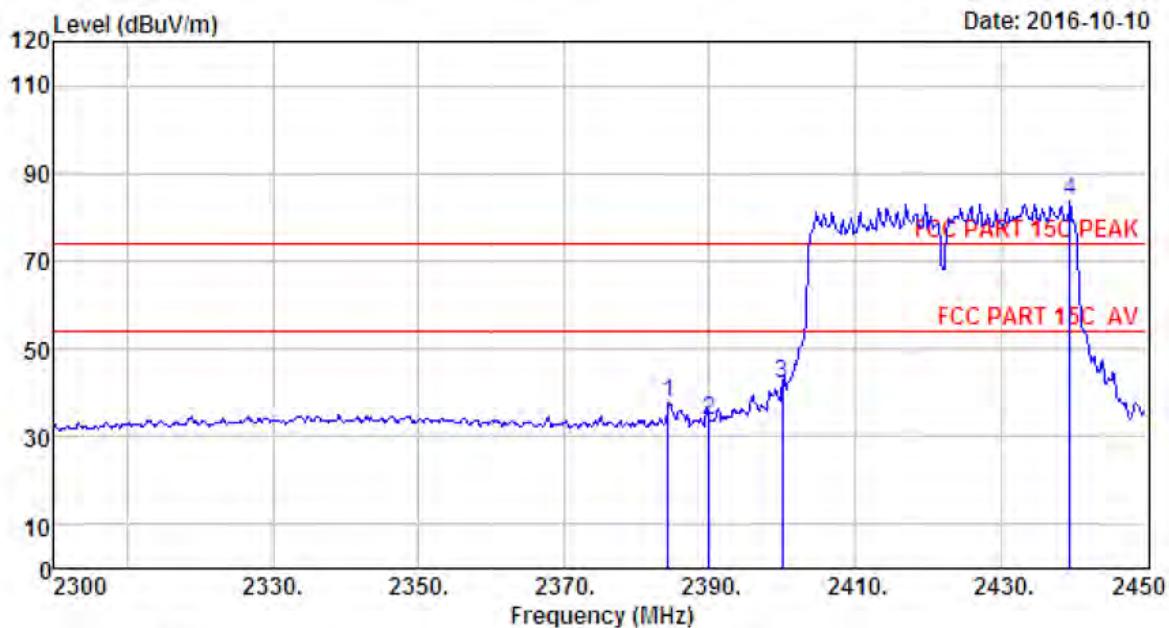
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 338  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humid:56%;Press:101.52kPa  
 Engineer : Tony  
 EUT : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 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	90.15	89.44	74.00	-15.44	Peak	
2 2483.50	27.58	6.71	35.11	39.40	38.58	74.00	35.42	Peak	
3 2484.00	27.58	6.71	35.11	40.46	39.64	74.00	34.36	Peak	

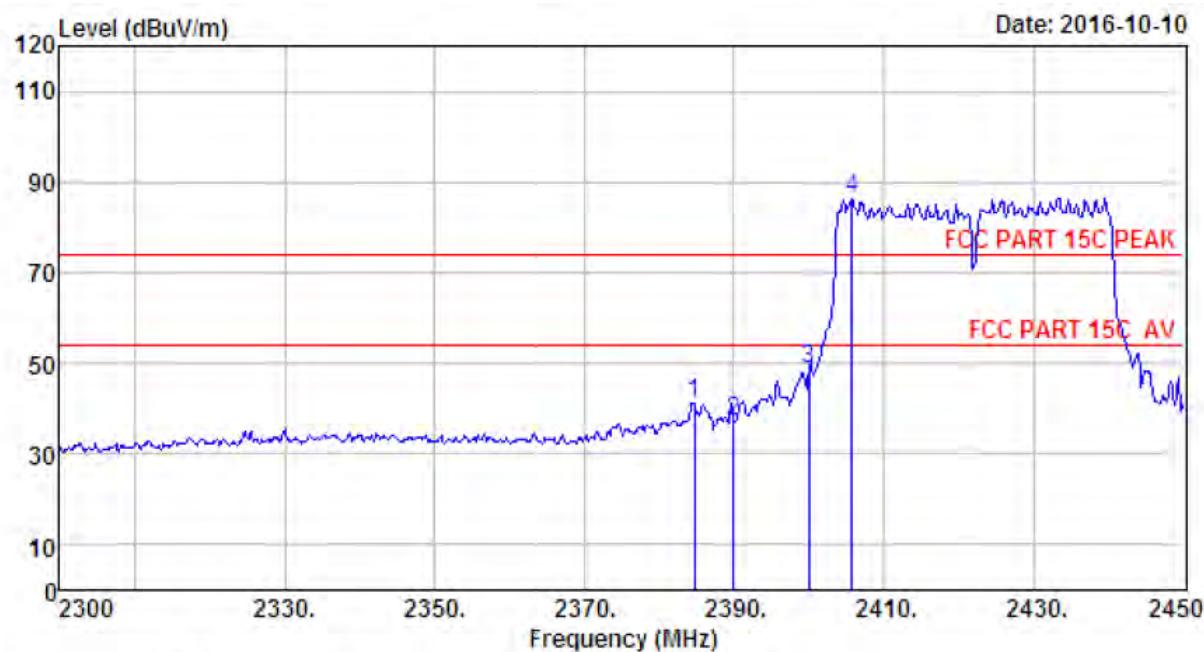
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading,  
 2. The emission levels that are 20dB below the official  
 limit are not reported.



Site no. : 966 1# chamber Data no. : 339  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH3 2422TX

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 2384.30	27.64	6.60	34.62	38.08	37.70	74.00	36.30	Peak	
2 2390.00	27.64	6.62	34.62	33.84	33.48	74.00	40.52	Peak	
3 2400.00	27.61	6.62	34.64	42.33	41.92	74.00	32.08	Peak	
4 2439.50	27.60	6.67	34.85	84.06	83.48	74.00	-9.48	Peak	

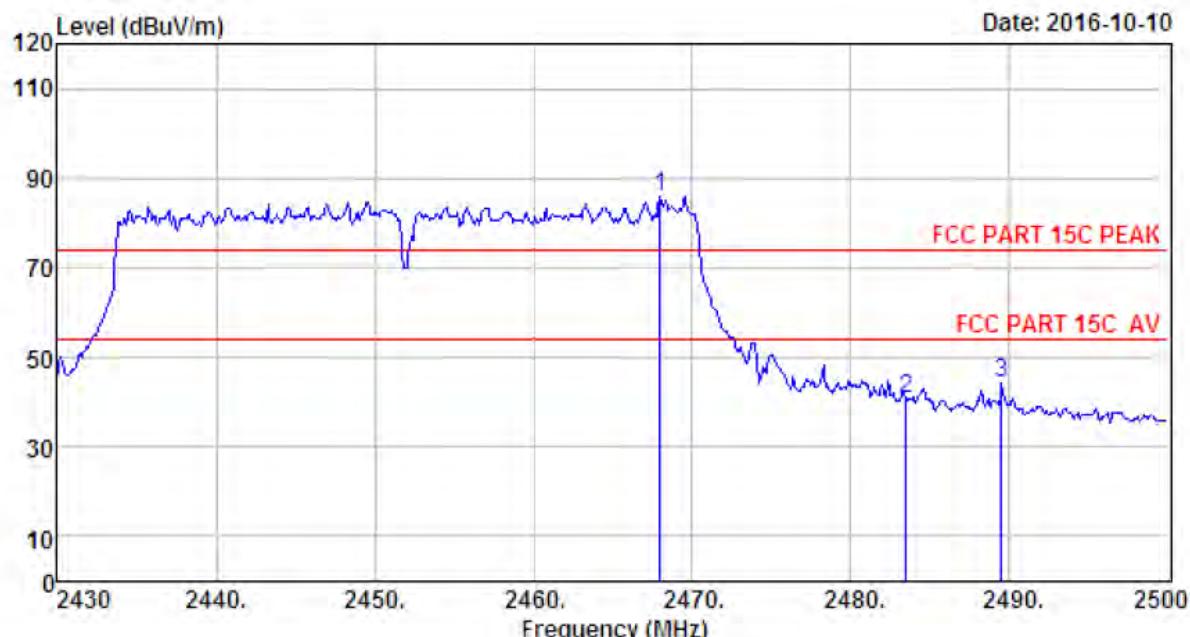
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 340  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 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 2384.75	27.64	6.60	34.62	41.75	41.37	74.00	32.63	Peak
2 2390.00	27.64	6.62	34.62	37.46	37.10	74.00	36.90	Peak
3 2400.00	27.61	6.62	34.64	49.08	48.67	74.00	25.33	Peak
4 2405.75	27.61	6.64	34.64	86.89	86.50	74.00	-12.50	Peak

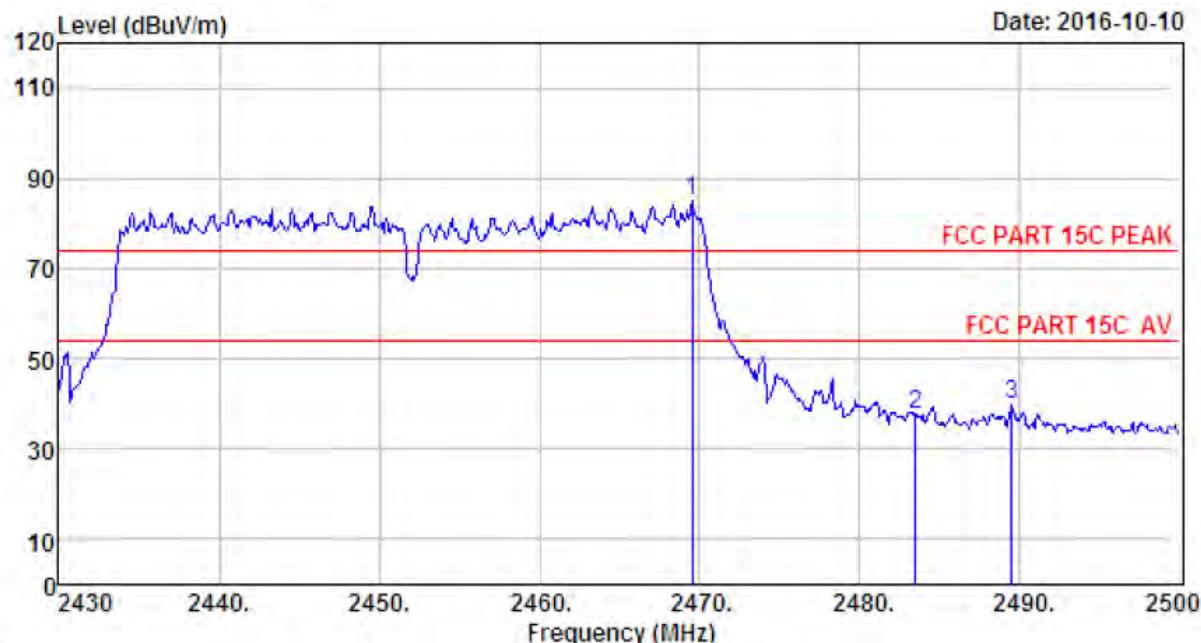
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 966 1# chamber Data no. : 341  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

	Ant.	Cable	Amp	Emission					
Freq. (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark	
1 2467.94	27.58	6.69	34.98	86.65	85.94	74.00	-11.94	Peak	
2 2483.50	27.58	6.71	35.11	41.72	40.90	74.00	33.10	Peak	
3 2489.50	27.58	6.73	35.24	45.12	44.19	74.00	29.81	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. : 966 1# chamber Data no. : 342  
 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 : WiFi Remote Video Doorbell  
 Power : DC 12V From Adapter Input AC 120V/60Hz  
 M/N : RL-IP02C  
 Test Mode : IEEE 802.11n HT40 CH9 2452TX

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 2469.55	27.58	6.69	34.98	85.60	84.89	74.00	-10.89	Peak	
2 2483.50	27.58	6.71	35.11	38.45	37.63	74.00	36.37	Peak	
3 2489.50	27.58	6.73	35.24	40.95	40.02	74.00	33.98	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 for 6dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 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 Procedure for 20dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in C63.10
  - (1). The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
  - (2). The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
  - (3). Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
  - (4) Steps a) through c) might require iteration to adjust within the specified tolerances.
  - (5) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
  - (6) Set detection mode to peak and trace mode to max hold.
  - (7) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
  - (8) Determine the “-xx dB down amplitude” using [(reference value) – xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
  - (9) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
  - (10) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “\_xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value,

then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “\_xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

(11) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

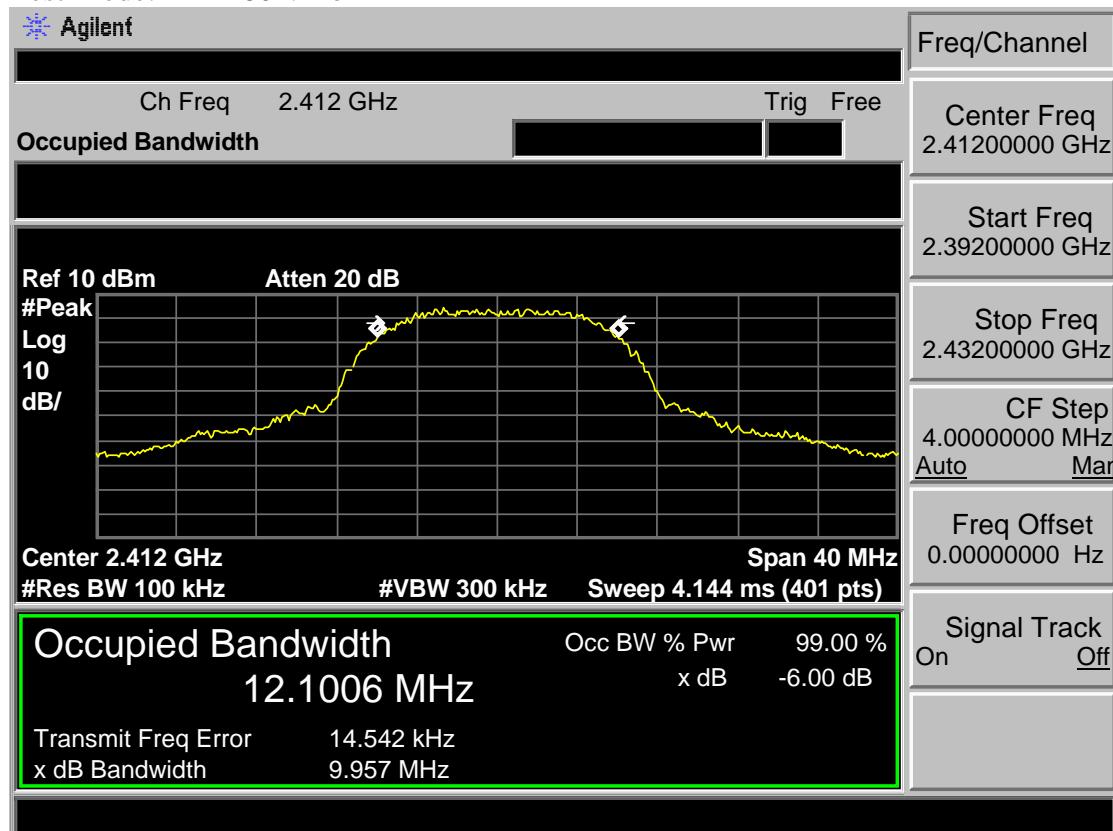
## 6.4 Test Result

EUT: WiFi Remote Video Doorbell			
M/N: RL-IP02C			
Test date: 2016-09-27		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	6dB bandwidth (MHz)	Limit (KHz)
IEEE 802.11 b	CH1	9.957	>500
	CH6	9.996	>500
	CH11	9.984	>500
IEEE 802.11 g	CH1	16.574	>500
	CH6	16.557	>500
	CH11	16.574	>500
IEEE 802.11 n HT 20	CH1	17.696	>500
	CH6	17.655	>500
	CH11	17.661	>500
IEEE 802.11 n HT 40	CH3	36.440	>500
	CH6	36.417	>500
	CH9	36.377	>500
Conclusion : PASS			

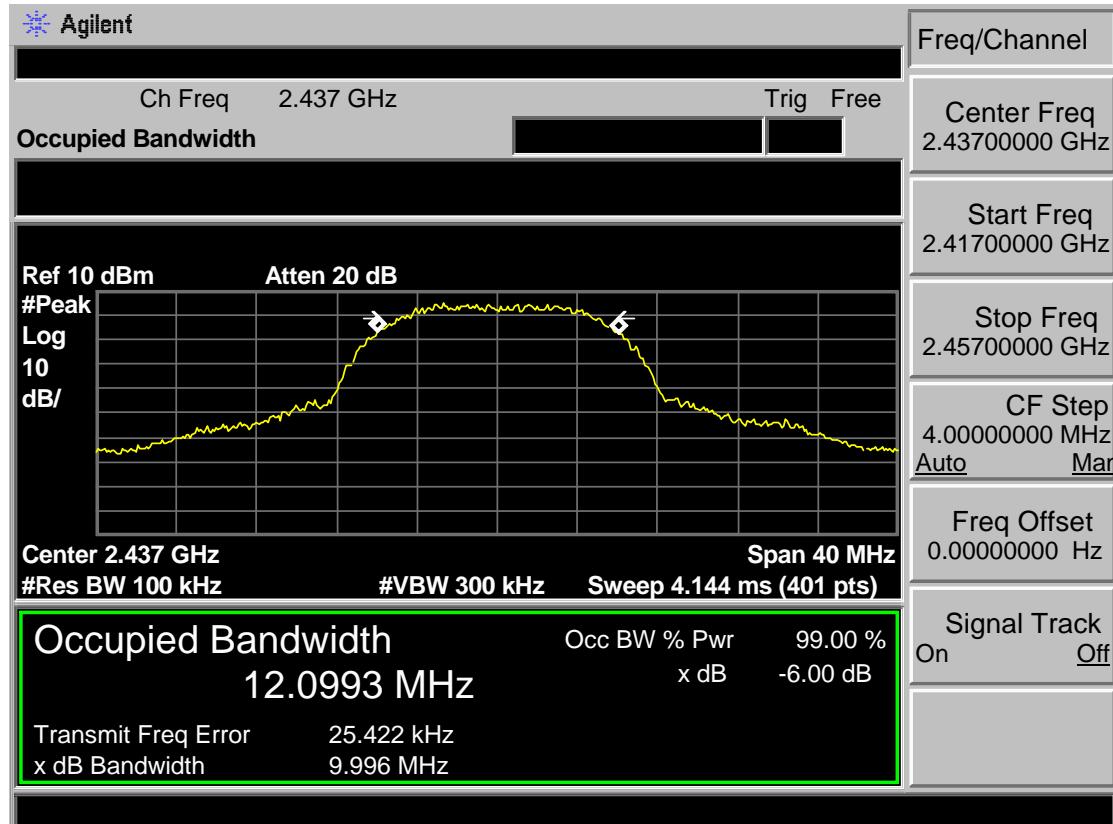
EUT: WiFi Remote Video Doorbell			
M/N: RL-IP02C			
Test date: 2016-09-27		Tested by: Tony.Tang	Test site: RF Site
Test Mode	CH	20dB bandwidth (MHz)	Limit (KHz)
IEEE 802.11 b	CH1	14.206	/
	CH7	14.204	/
	CH13	14.252	/
IEEE 802.11 g	CH1	18.722	/
	CH7	18.698	/
	CH13	18.756	/
IEEE 802.11 n HT 20	CH1	19.382	/
	CH7	19.314	/
	CH13	19.273	/
IEEE 802.11 n HT 40	CH3	40.211	
	CH6	40.405	
	CH9	40.308	
Conclusion : PASS			

## 6.5 6dB Test Data

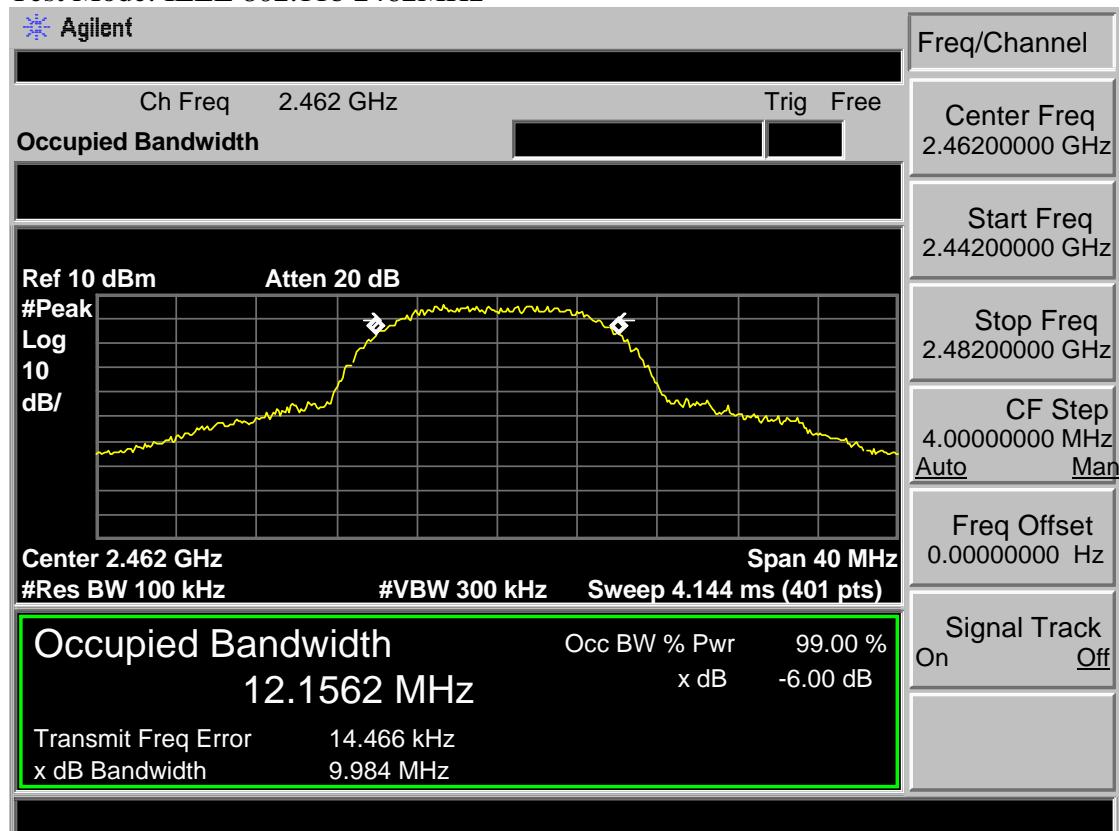
Test Mode: IEEE 802.11b 2412MHz



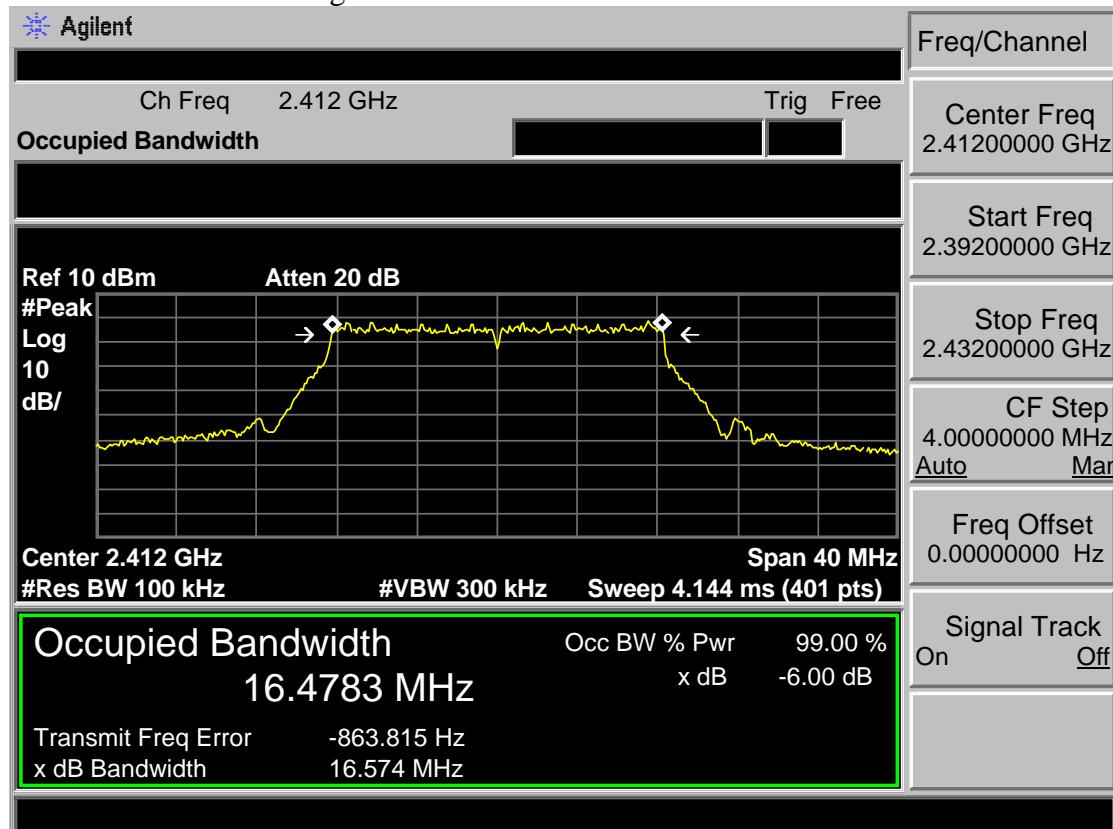
Test Mode: IEEE 802.11b 2437MHz



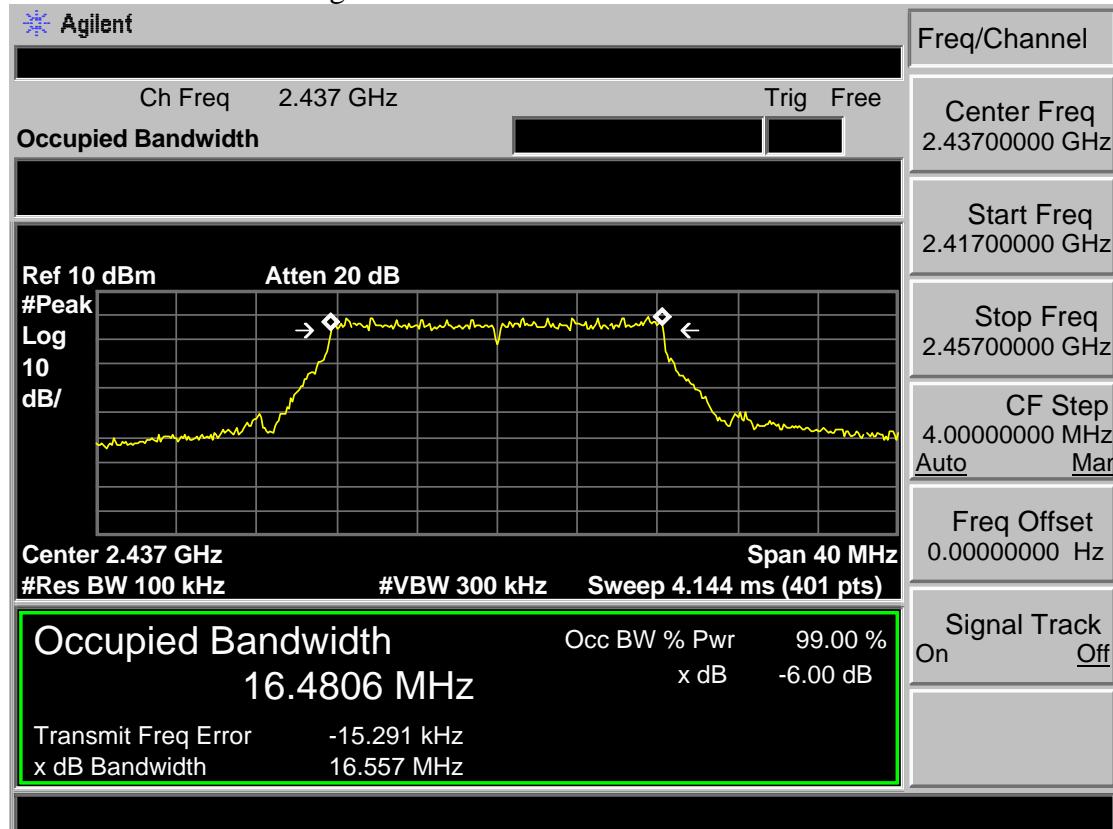
Test Mode: IEEE 802.11b 2462MHz



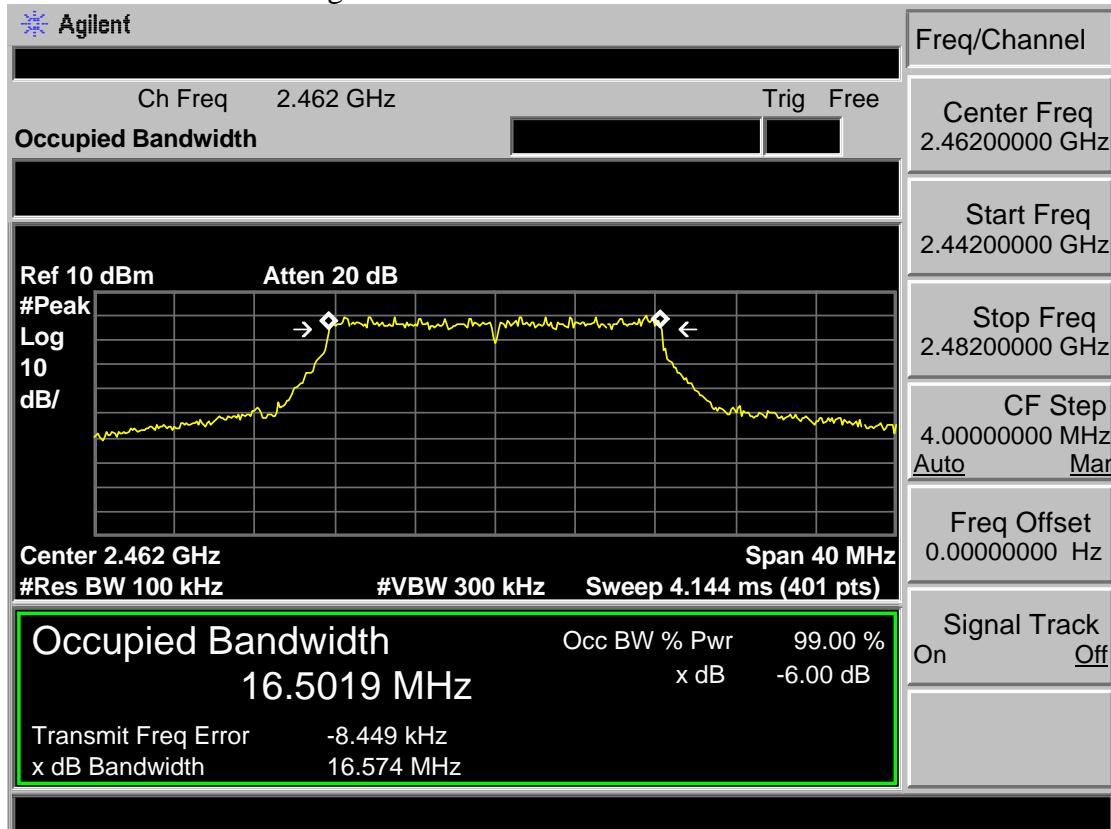
## Test Mode: IEEE 802.11g 2412MHz



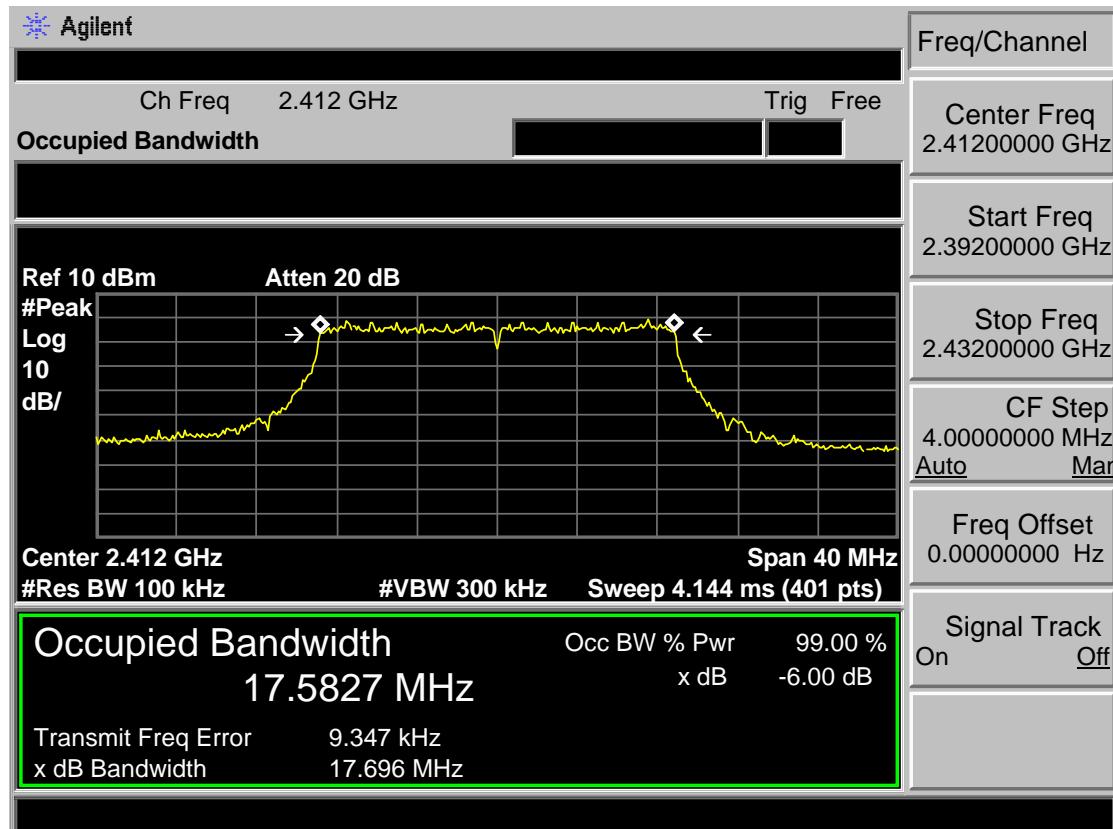
## Test Mode: IEEE 802.11g 2437MHz



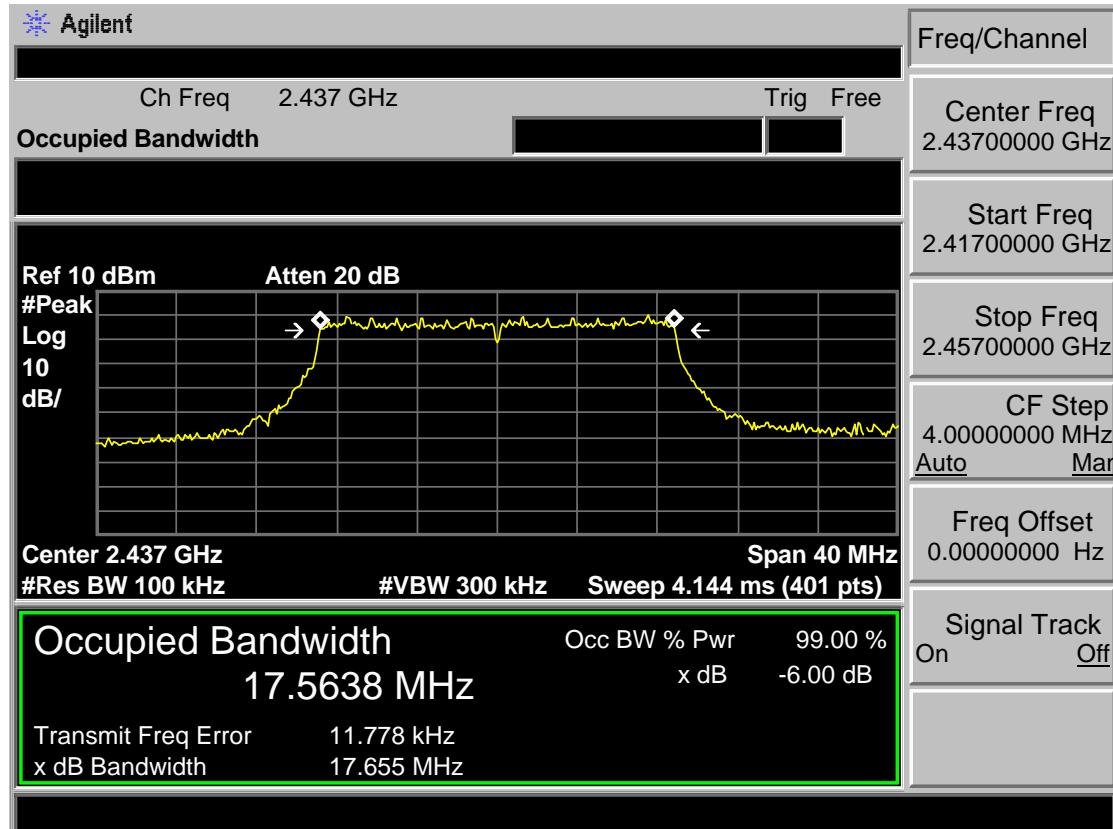
Test Mode: IEEE 802.11g 2462MHz



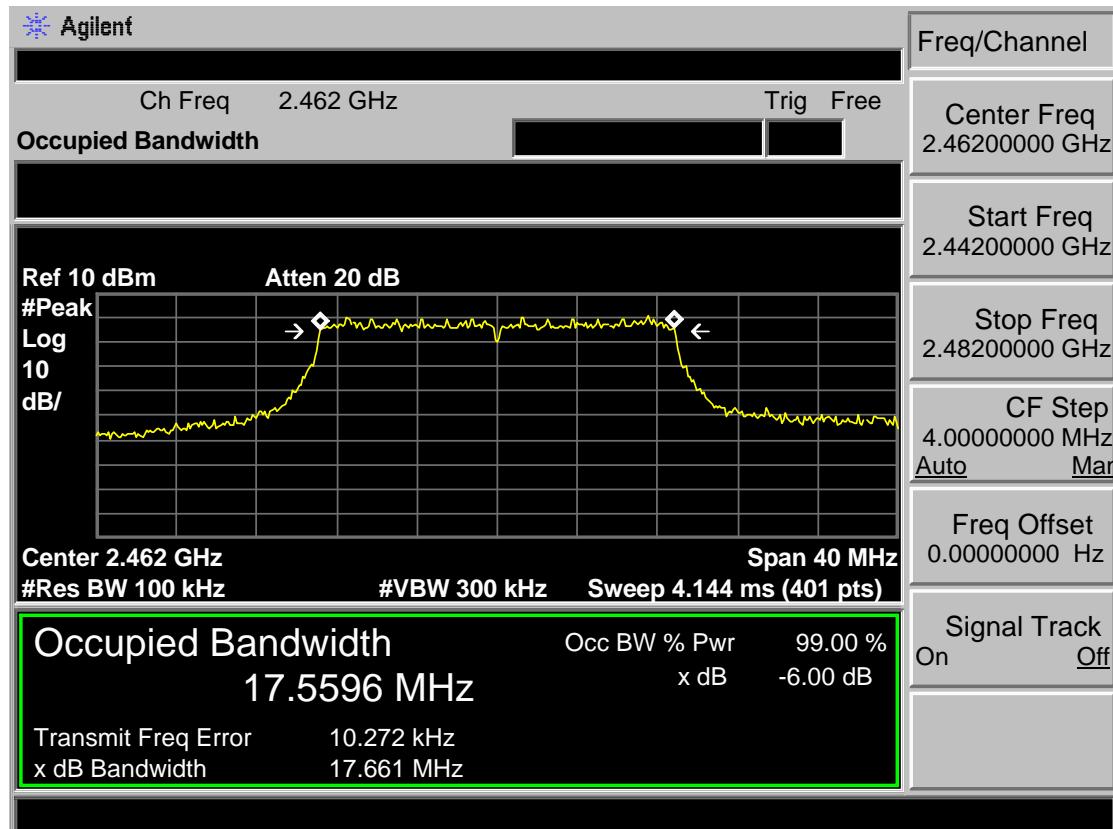
## Test Mode: IEEE 802.11n HT20 2412MHz



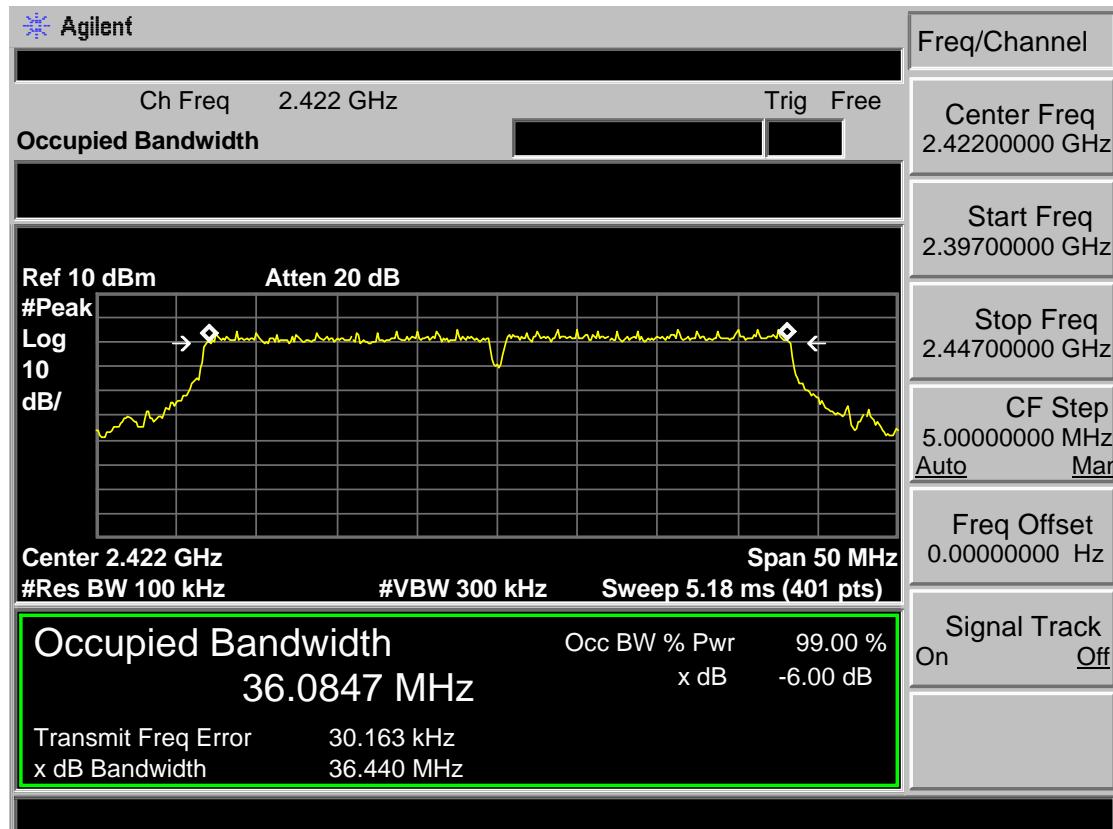
## Test Mode: IEEE 802.11n HT20 2437MHz



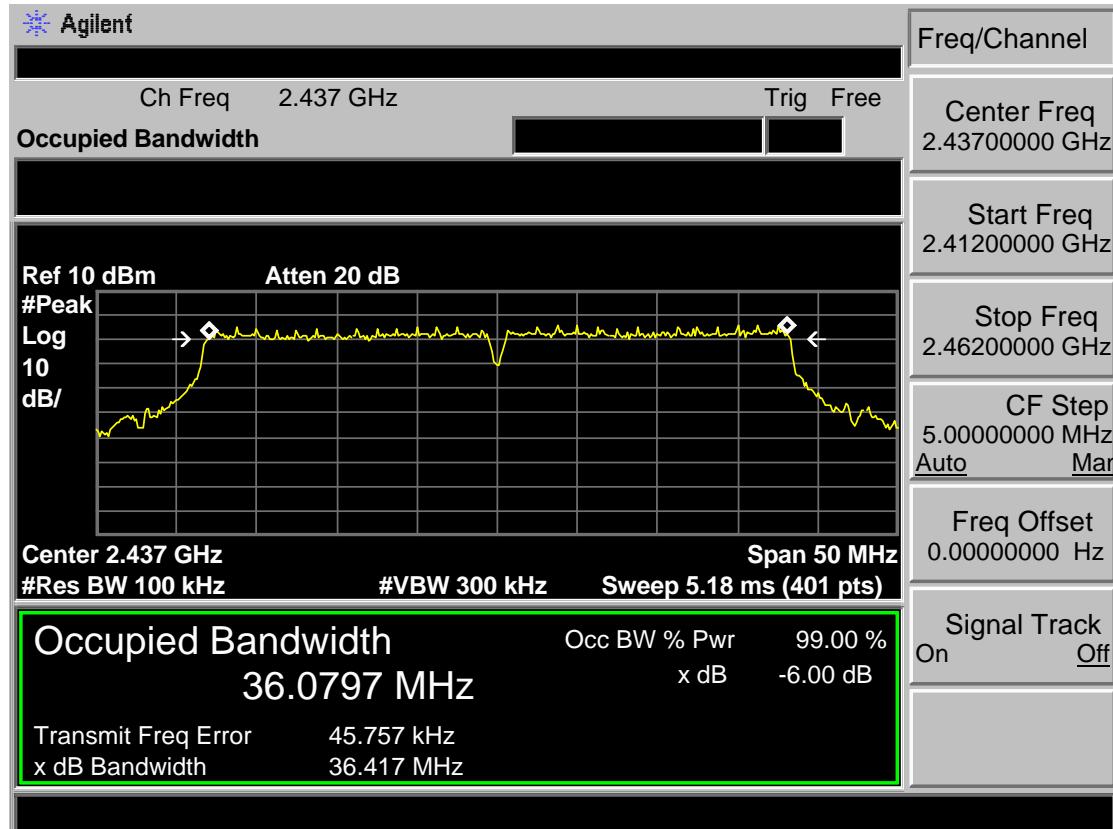
Test Mode: IEEE 802.11n HT20 2462MHz



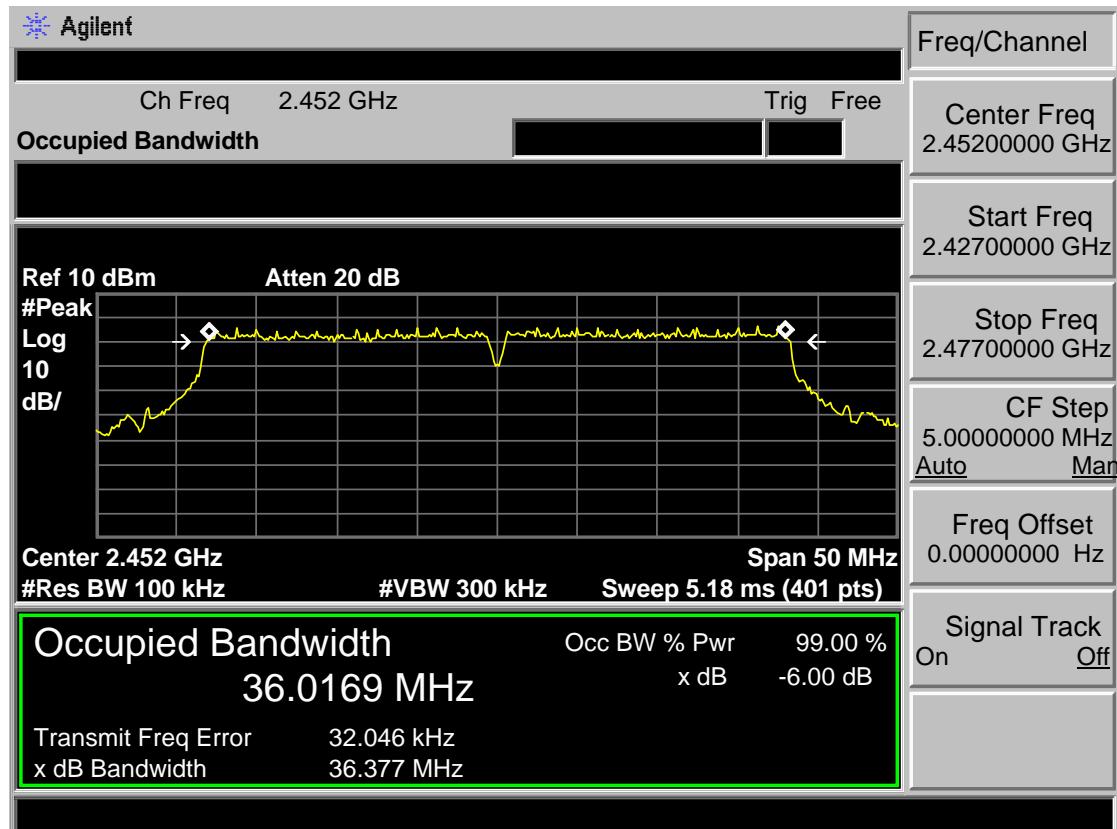
## Test Mode: IEEE 802.11n HT40 2422MHz



## Test Mode: IEEE 802.11n HT20 2437MHz

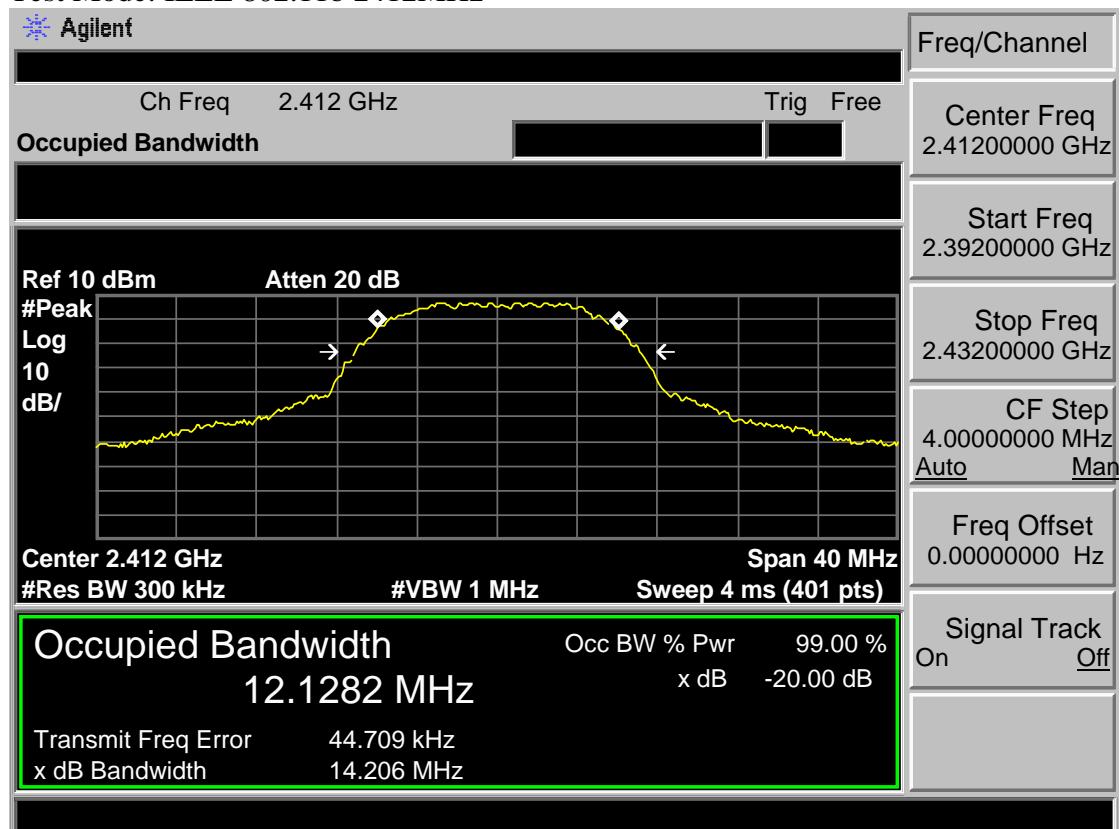


## Test Mode: IEEE 802.11n HT20 2452MHz

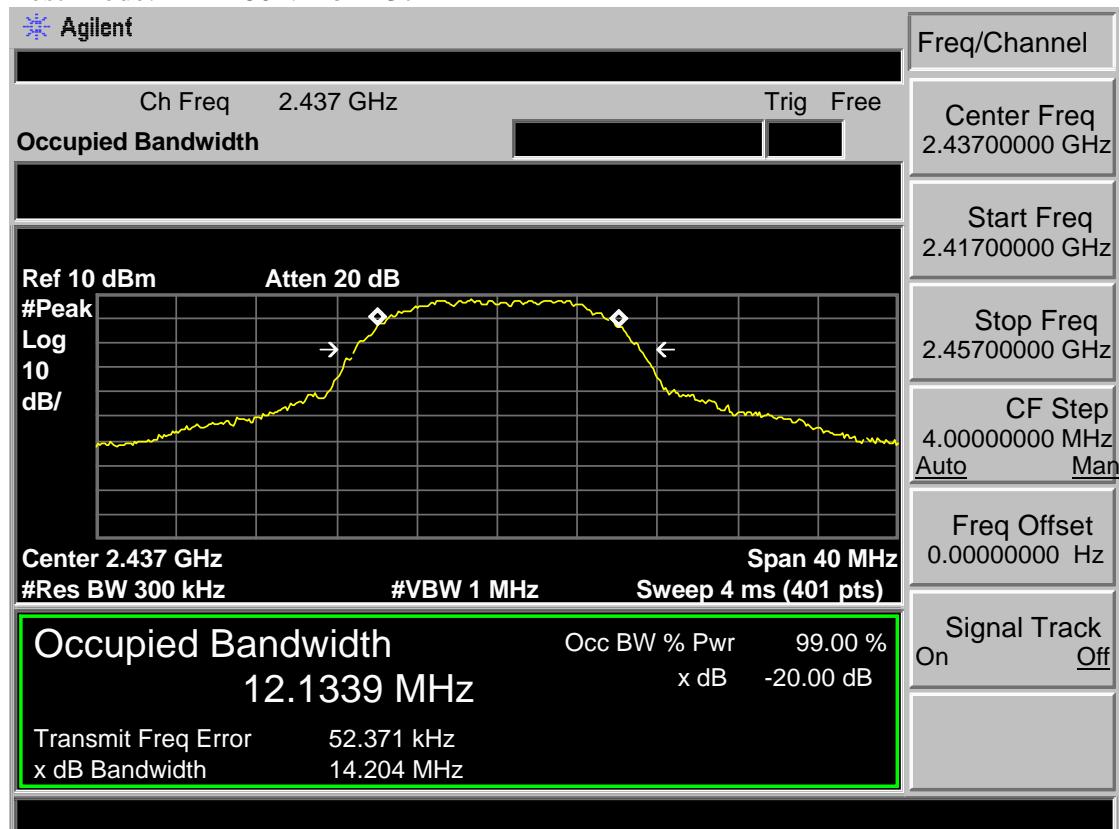


## 6.6 20dB Test Data

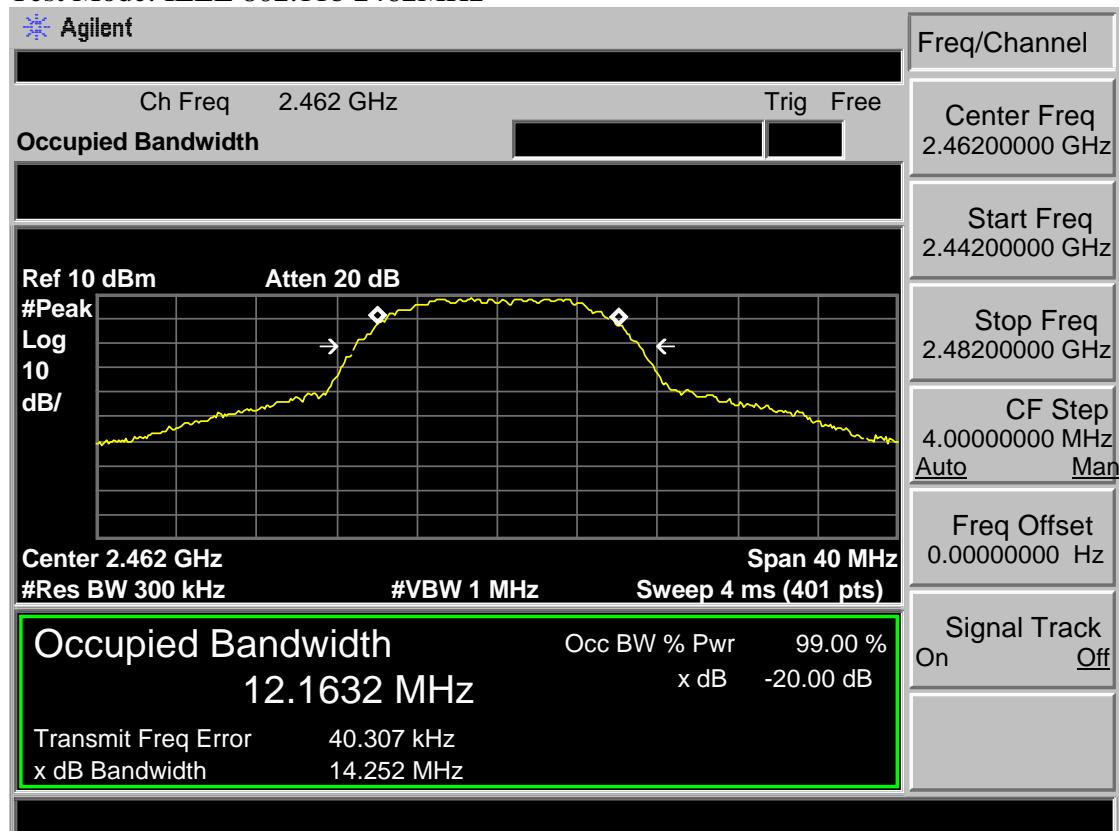
Test Mode: IEEE 802.11b 2412MHz



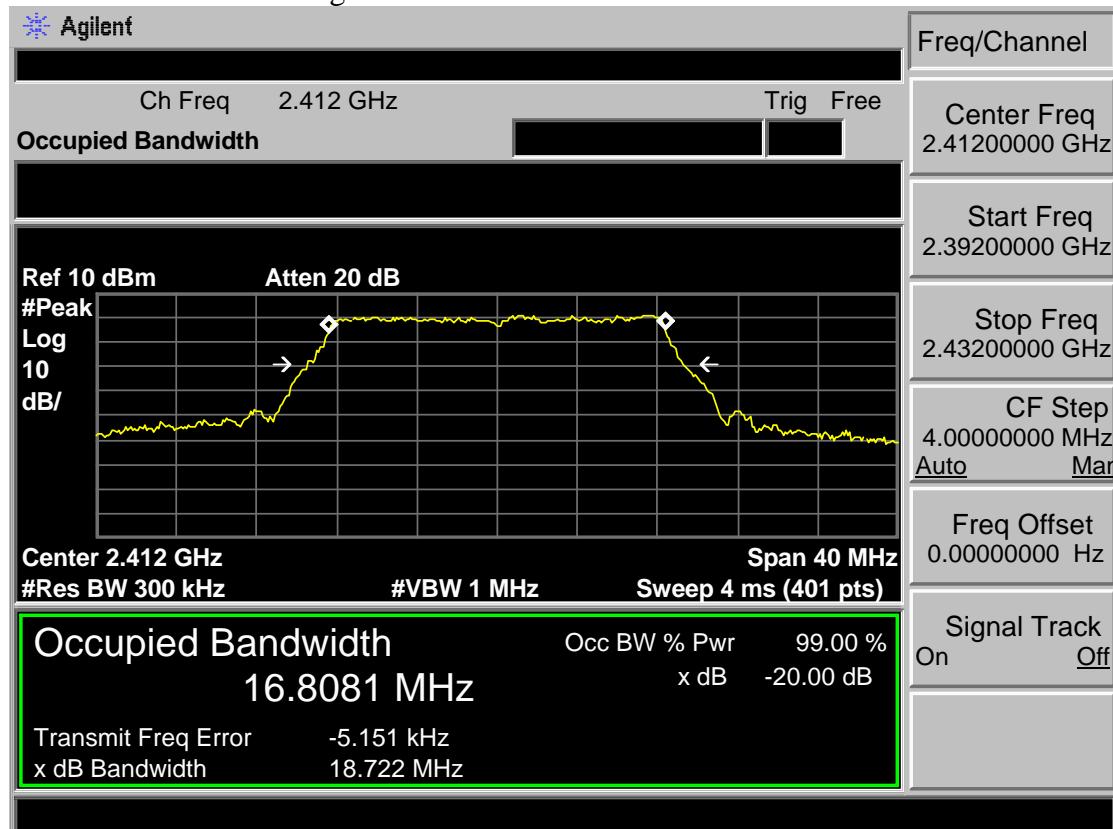
Test Mode: IEEE 802.11b 2437MHz



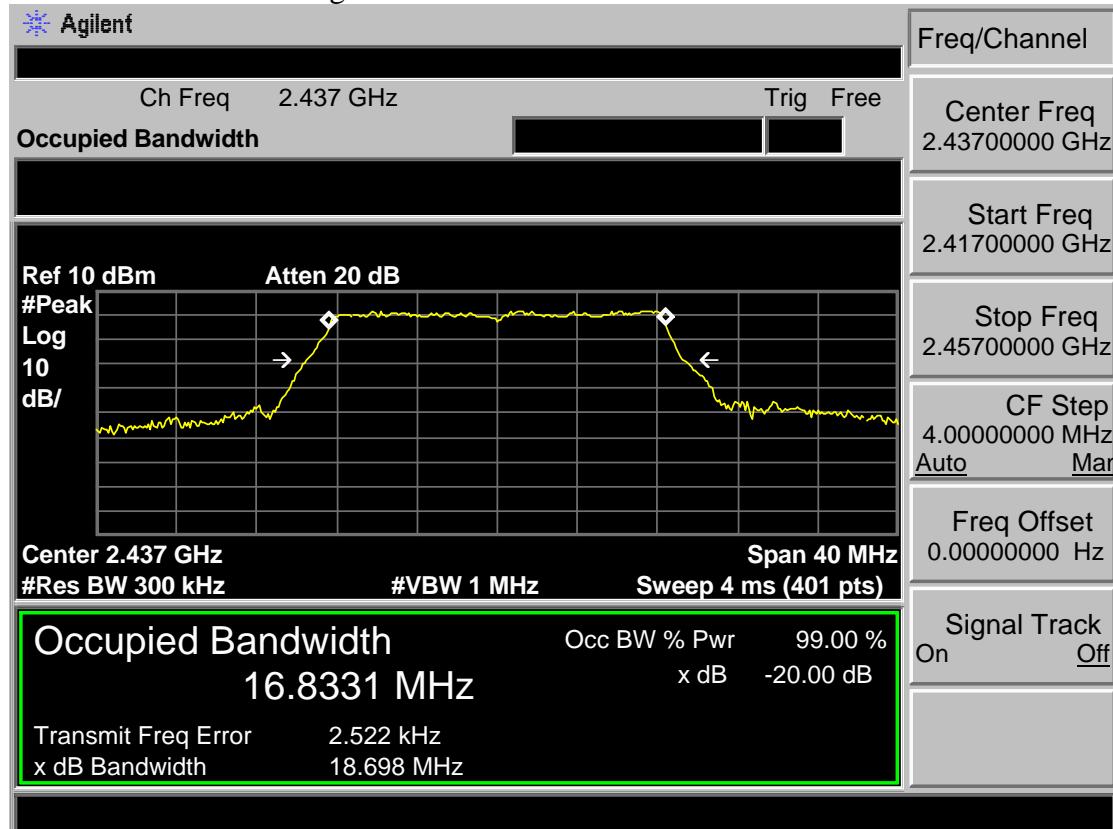
Test Mode: IEEE 802.11b 2462MHz



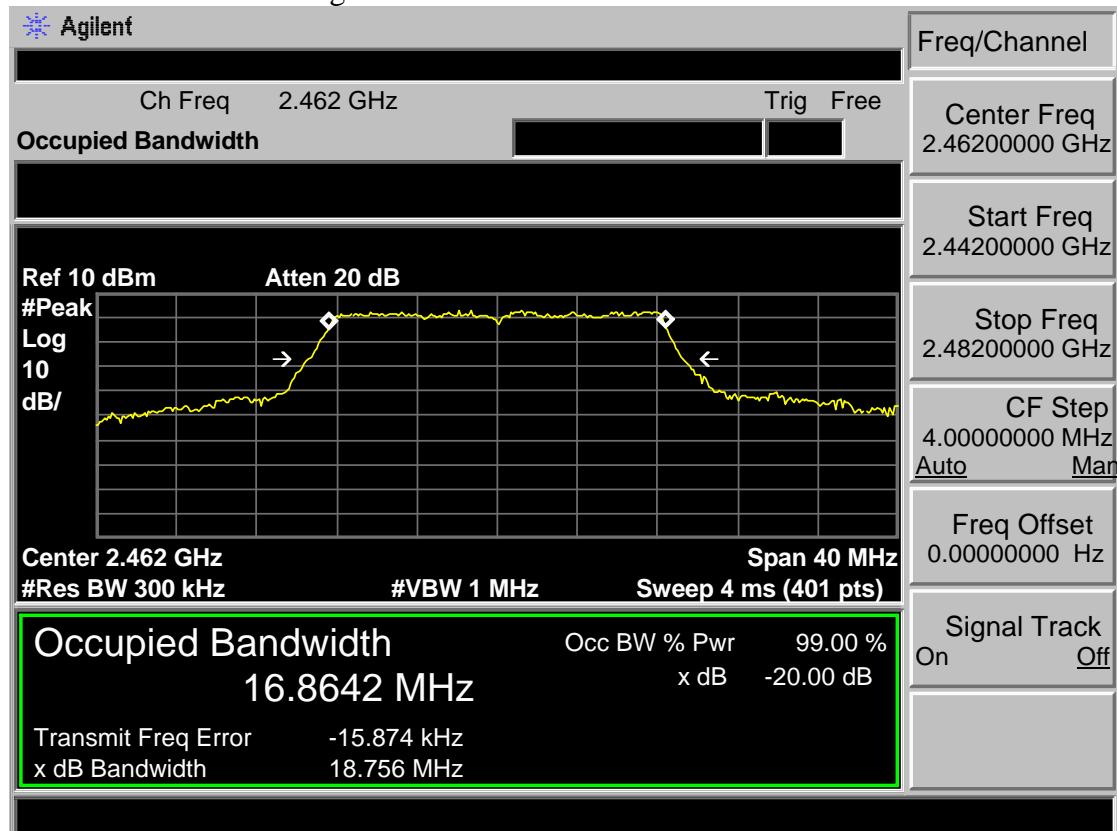
## Test Mode: IEEE 802.11g 2412MHz



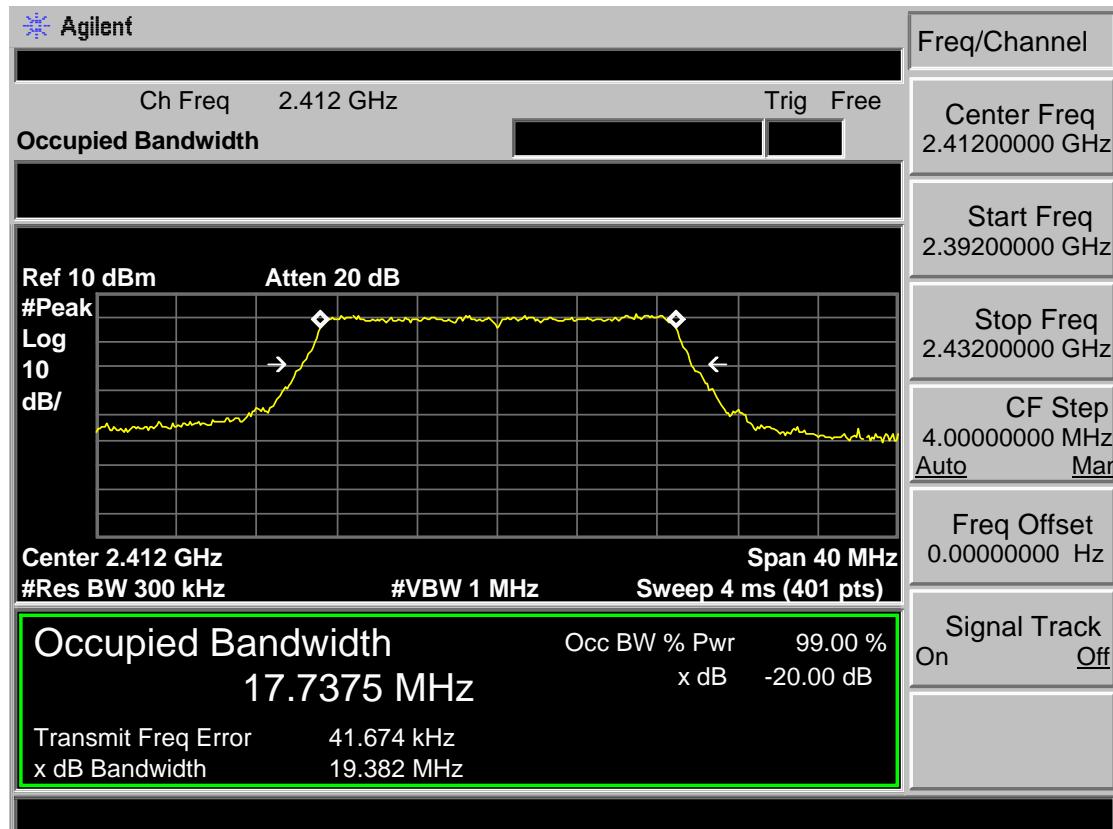
## Test Mode: IEEE 802.11g 2437MHz



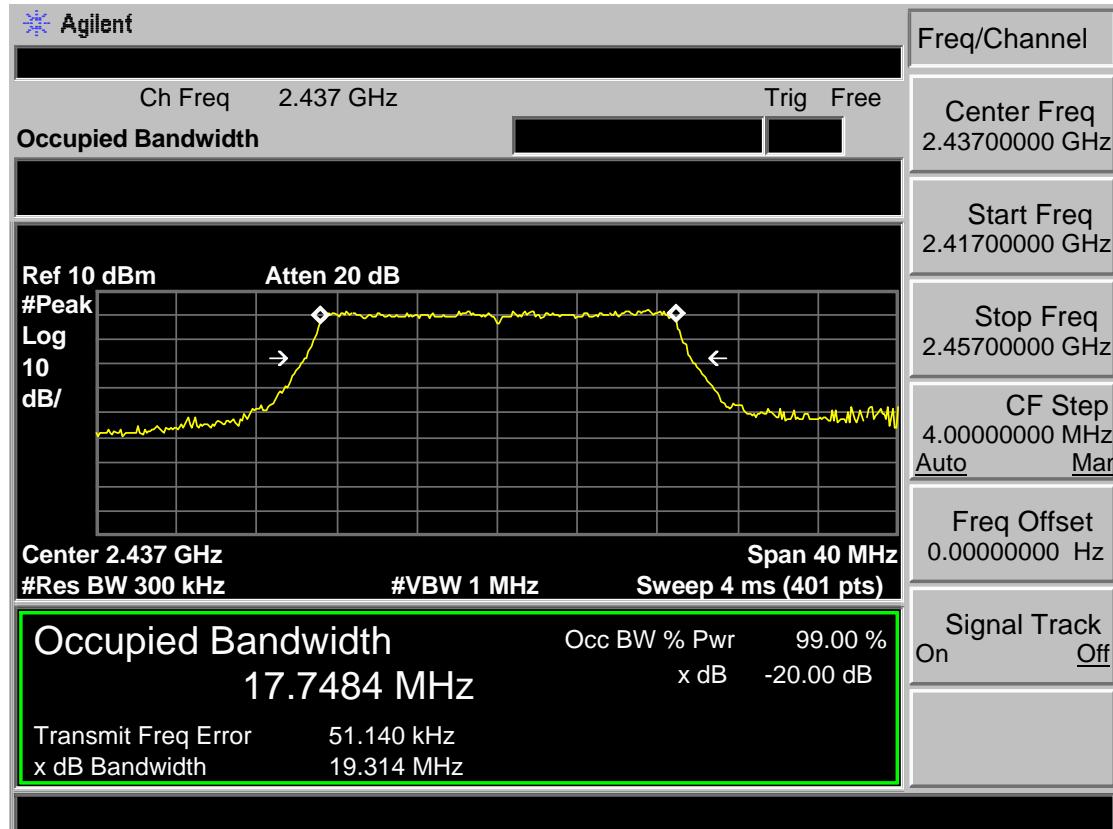
Test Mode: IEEE 802.11g 2462MHz



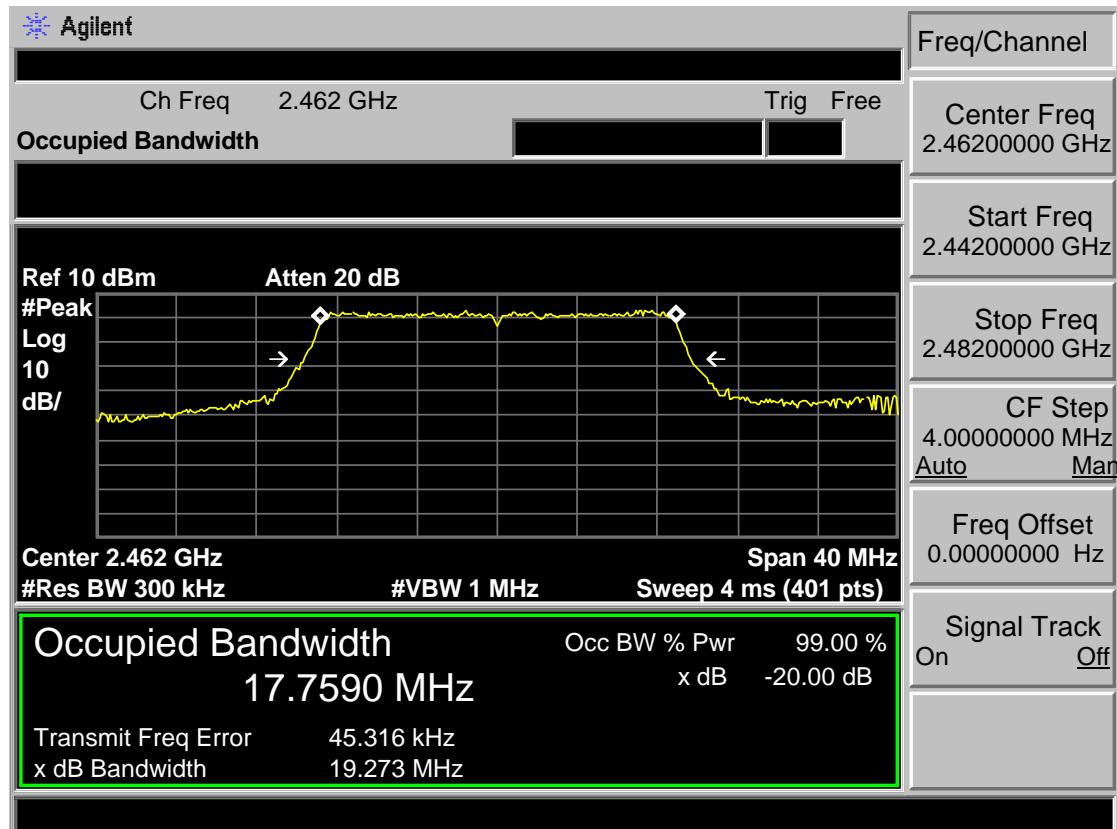
## Test Mode: IEEE 802.11n HT20 2412MHz



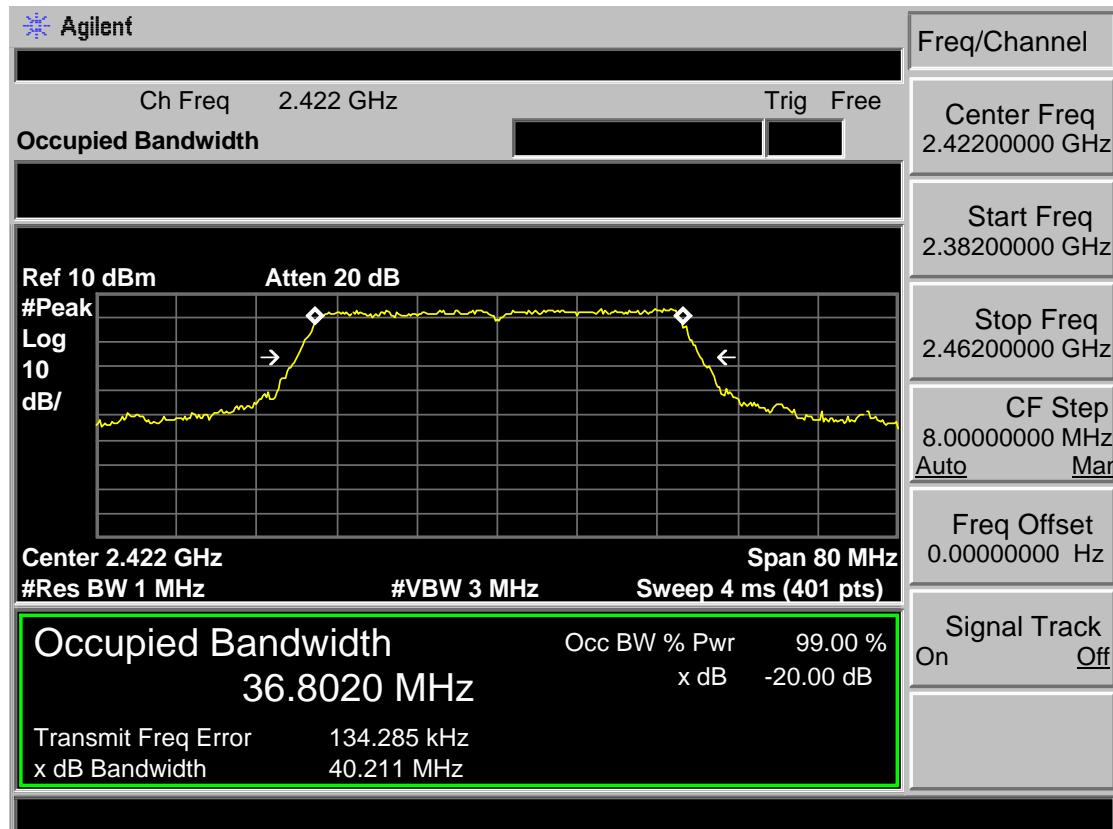
## Test Mode: IEEE 802.11n HT20 2437MHz



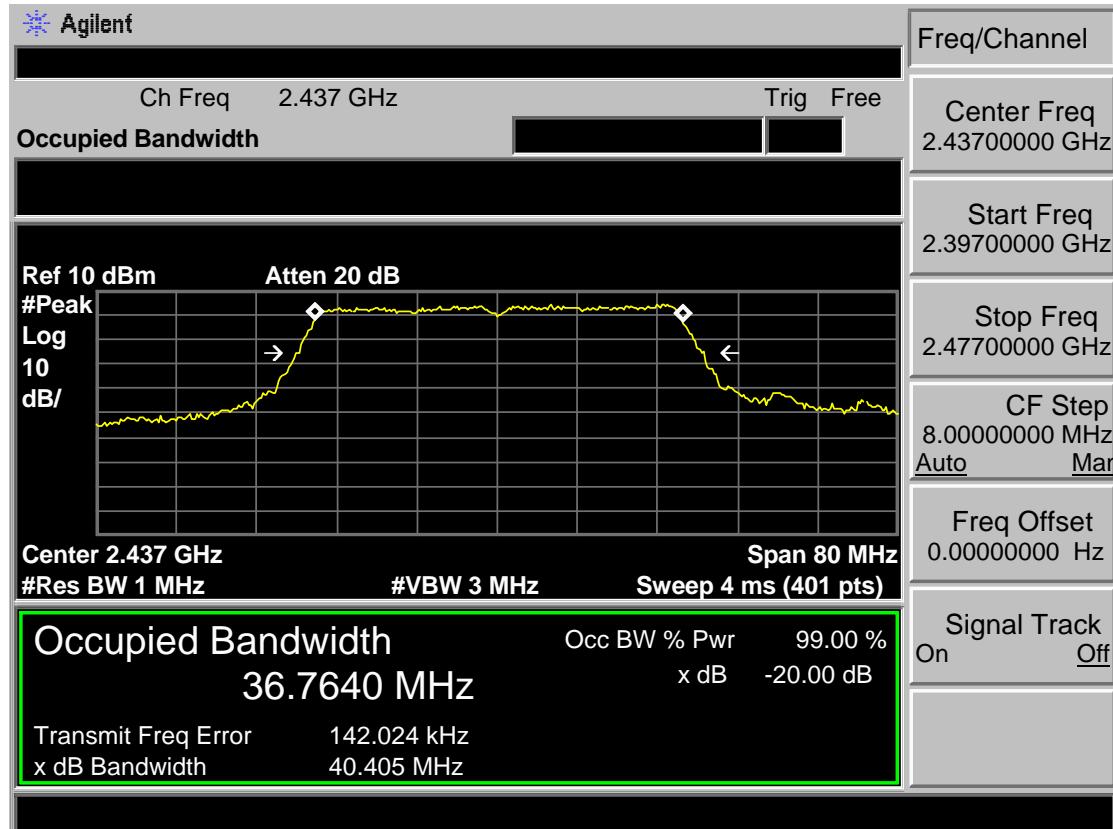
Test Mode: IEEE 802.11n HT20 2462MHz



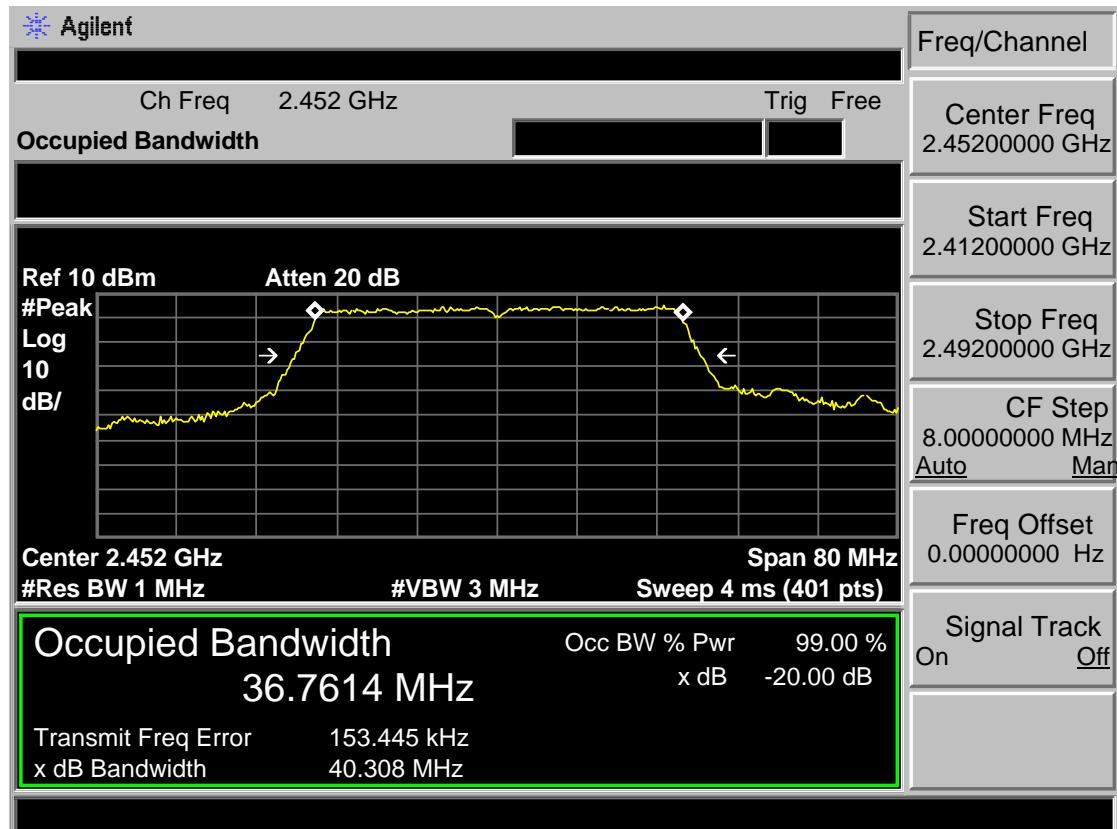
## Test Mode: IEEE 802.11n HT40 2422MHz



## 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 out put Power shall not exceed 1W(30dBm)

### 7.2 Test Procedure

#### 7.3 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 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

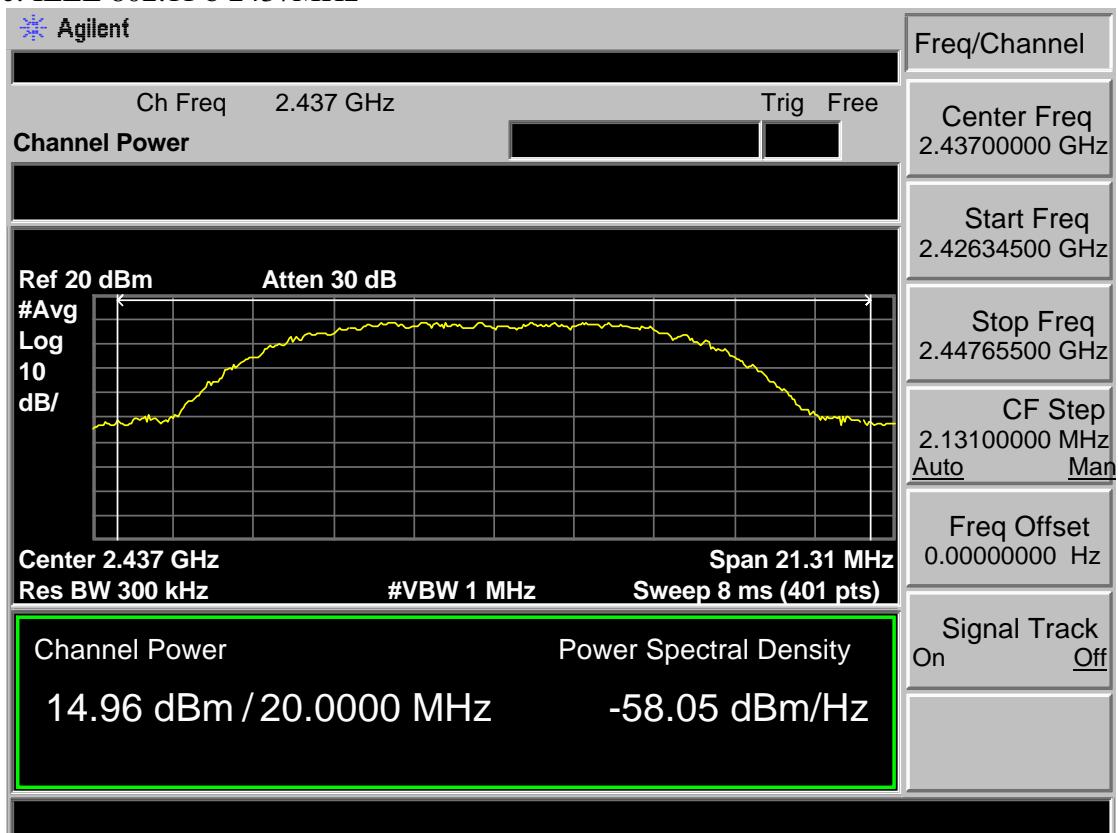
EUT: WiFi Remote Video Doorbell			
M/N: RL-IP02C			
Test date: 2016-09-27		Tested by: Tony.Tang	Test site: RF Site
Pass			
Test Mode	CH	Conducted Power (dBm)	Limit (dBm)
IEEE 802.11 b	CH1	14.10	30
	CH7	14.96	30
	CH13	14.62	30
IEEE 802.11 g	CH1	8.14	30
	CH7	8.61	30
	CH13	8.35	30
IEEE 802.11 n HT 20	CH1	8.24	30
	CH7	8.29	30
	CH13	7.73	30
IEEE 802.11 n HT 40	CH3	5.19	30
	CH6	5.83	30
	CH9	6.10	30
Conclusion : PASS			

## 7.5 Test Data

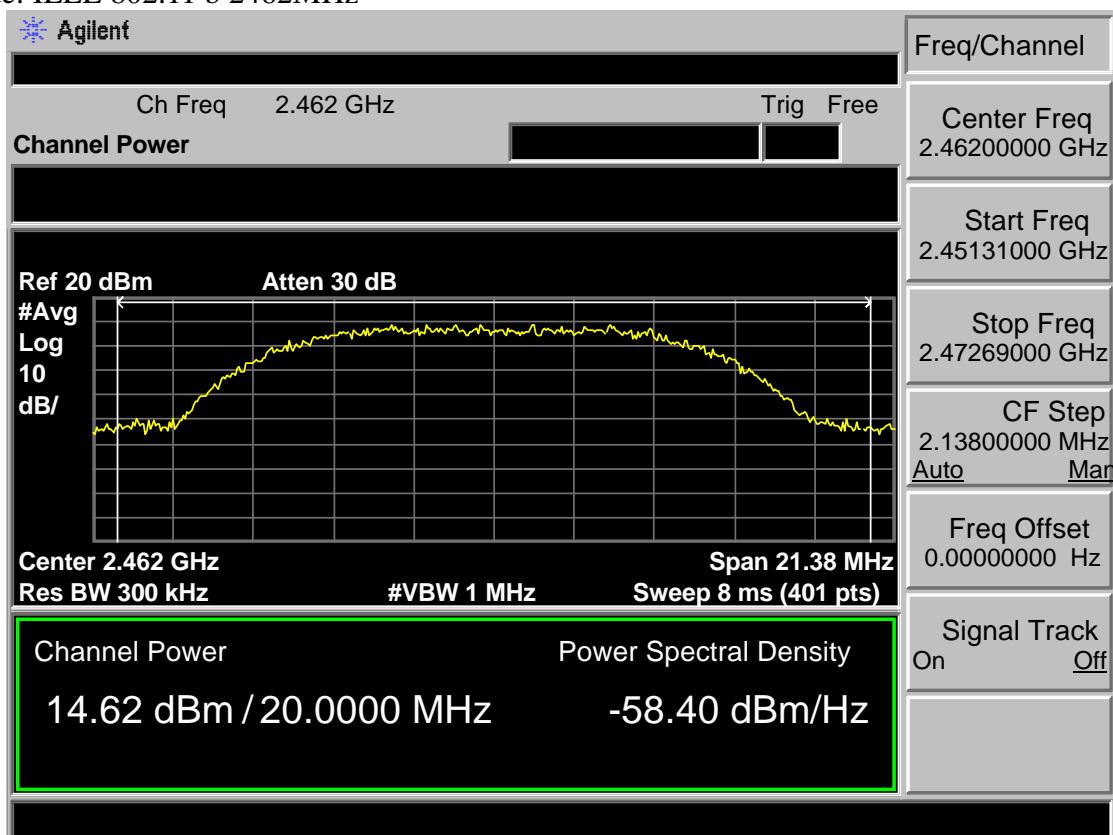
Test Mode: IEEE 802.11 b 2412MHz



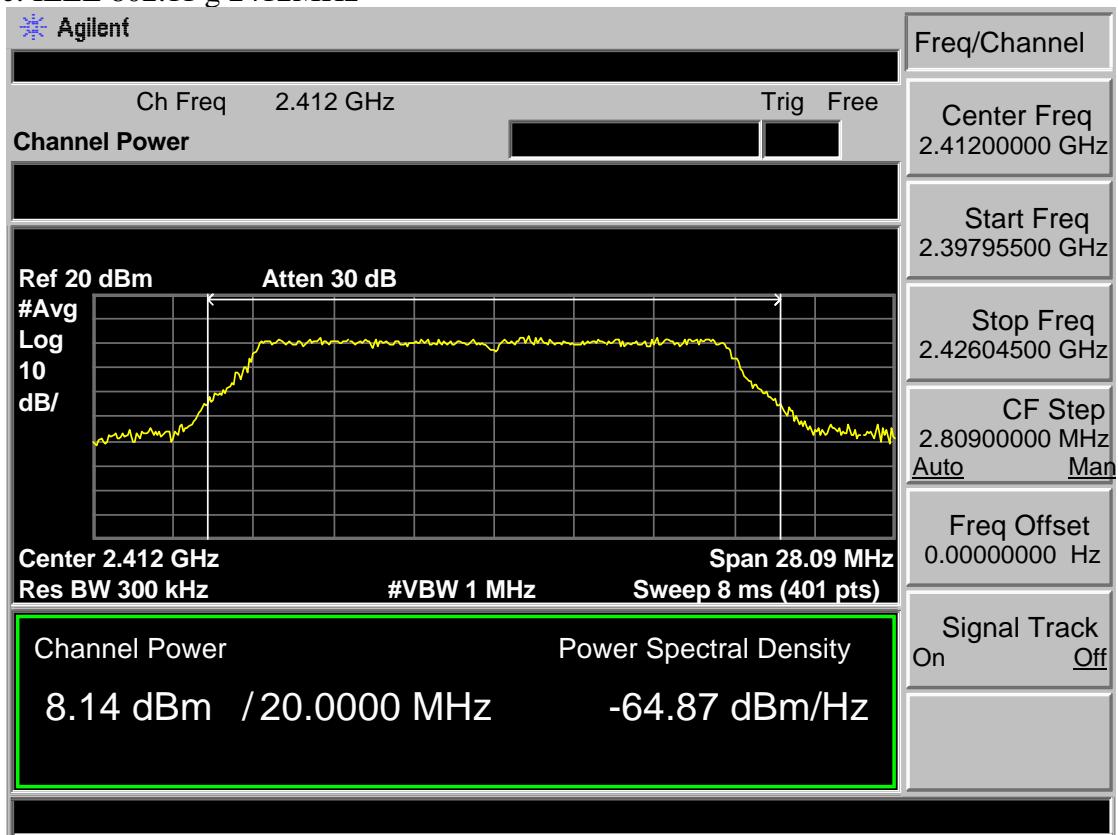
Test Mode: IEEE 802.11 b 2437MHz



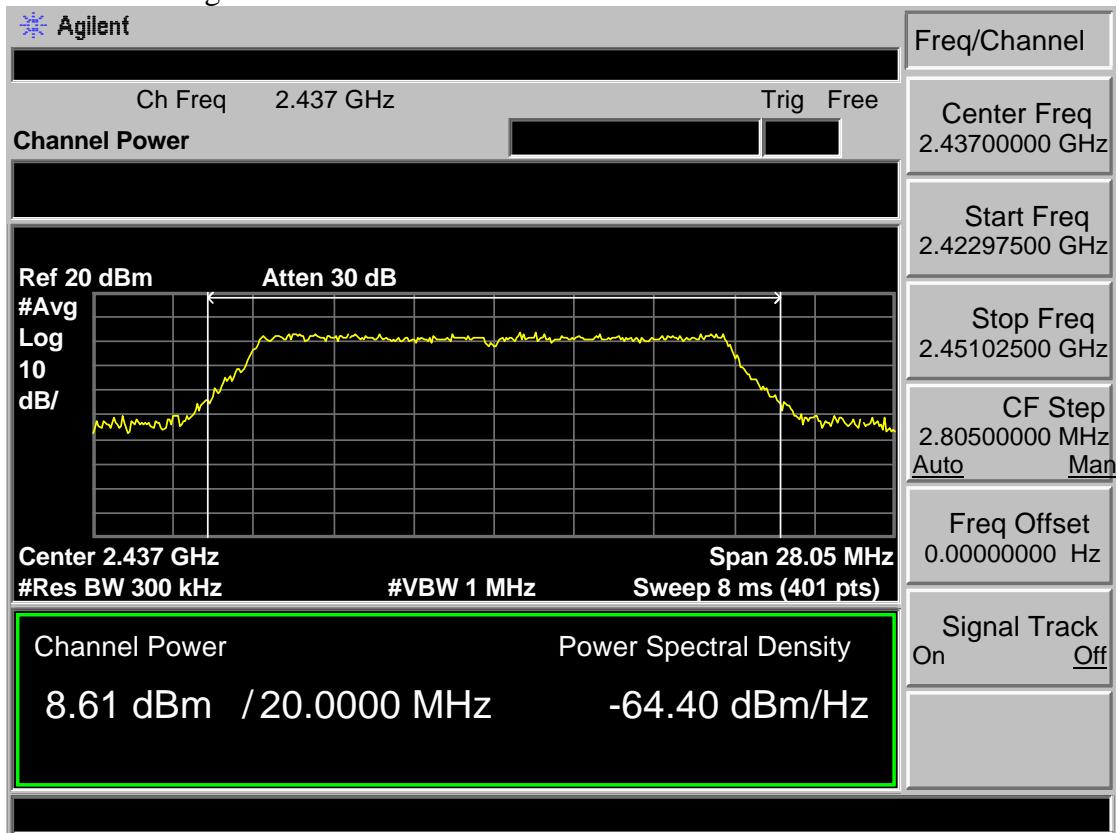
Test Mode: IEEE 802.11 b 2462MHz



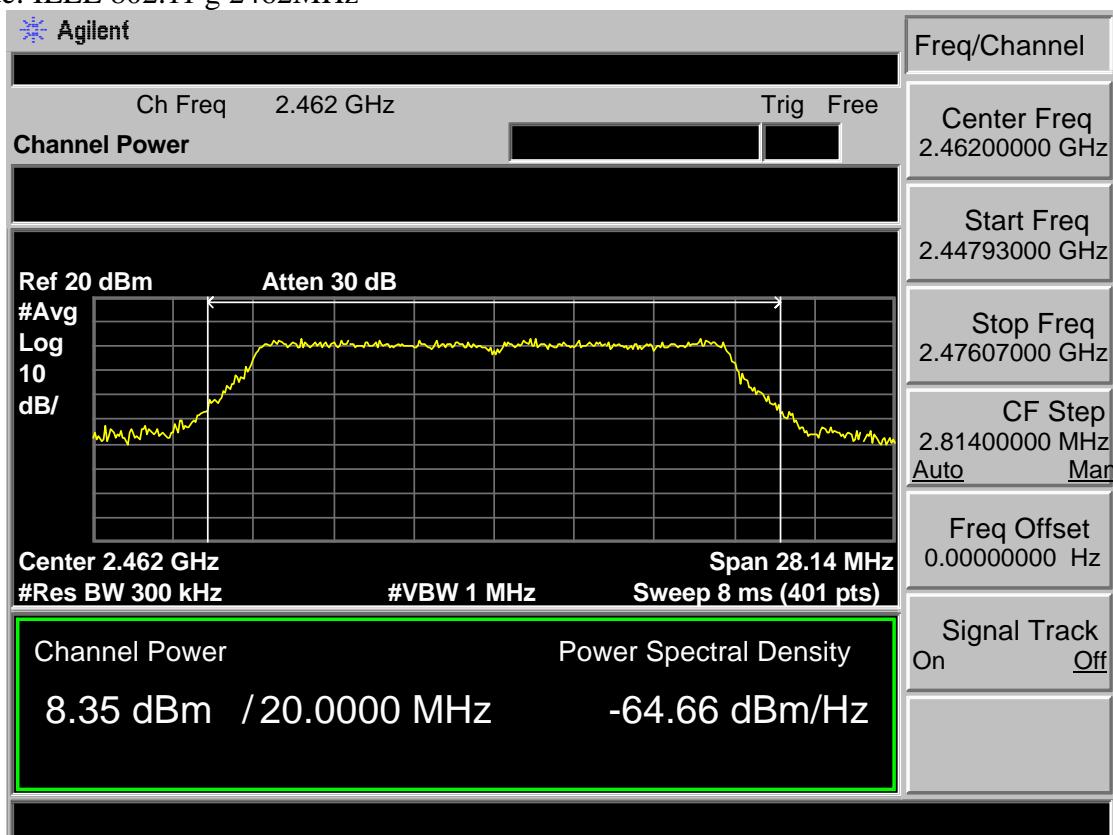
## Test Mode: IEEE 802.11 g 2412MHz



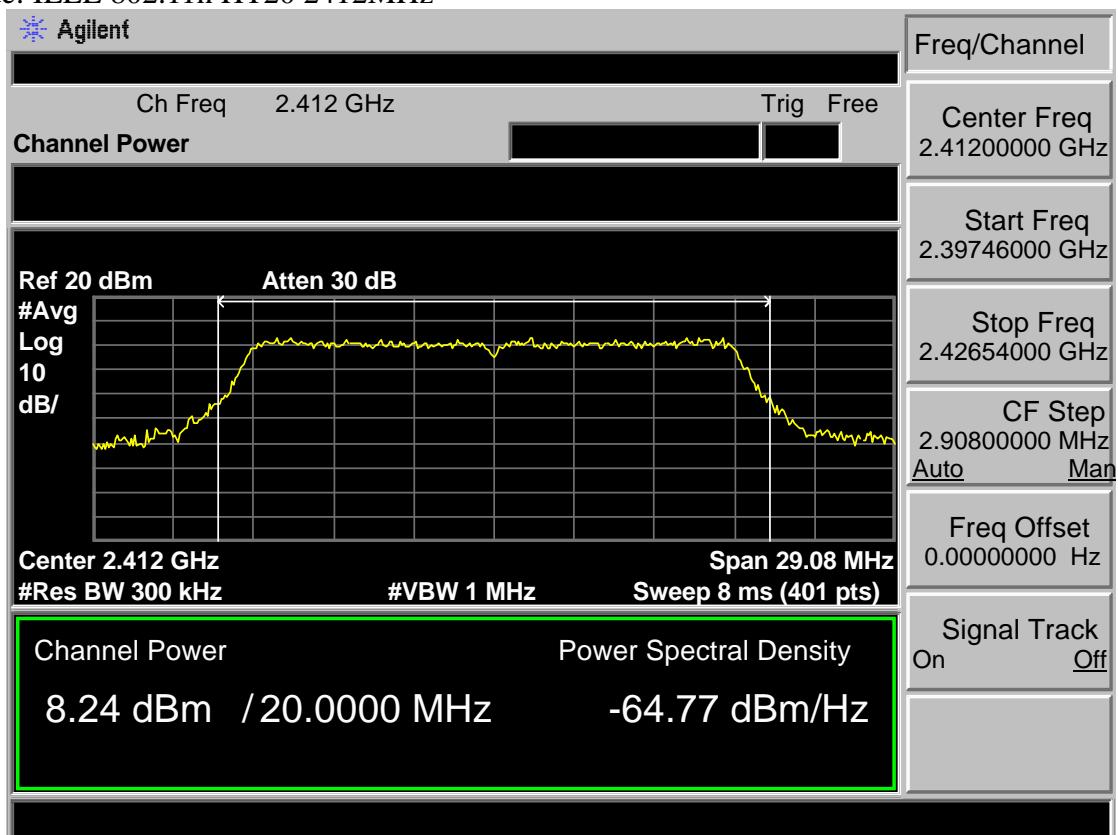
## Test Mode: IEEE 802.11 g 2437MHz



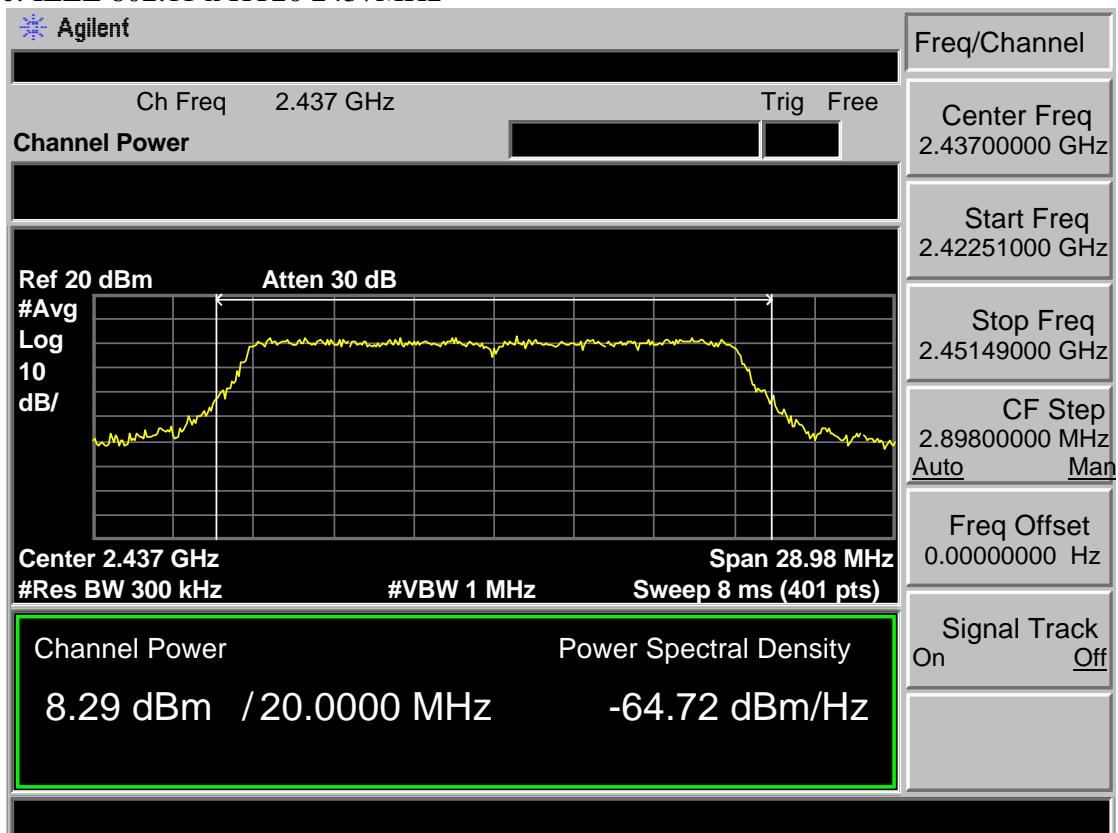
Test Mode: IEEE 802.11 g 2462MHz



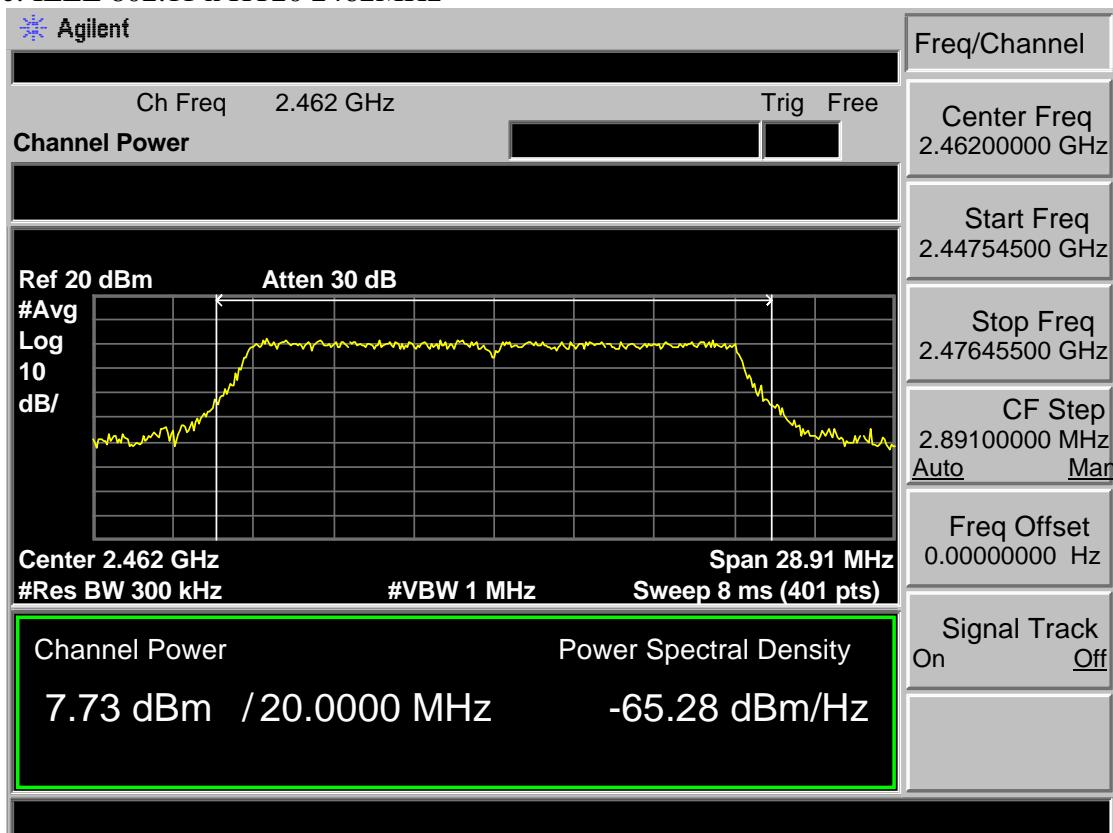
## Test Mode: IEEE 802.11n HT20 2412MHz



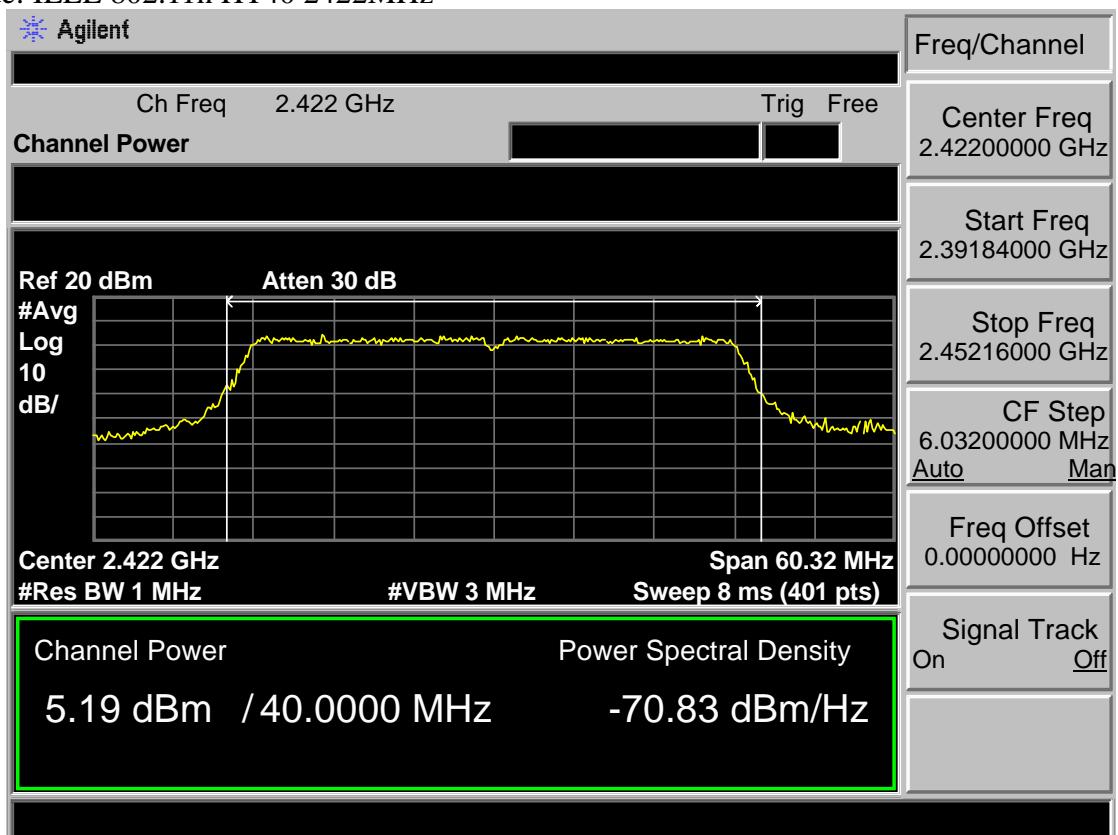
## Test Mode: IEEE 802.11 n HT20 2437MHz



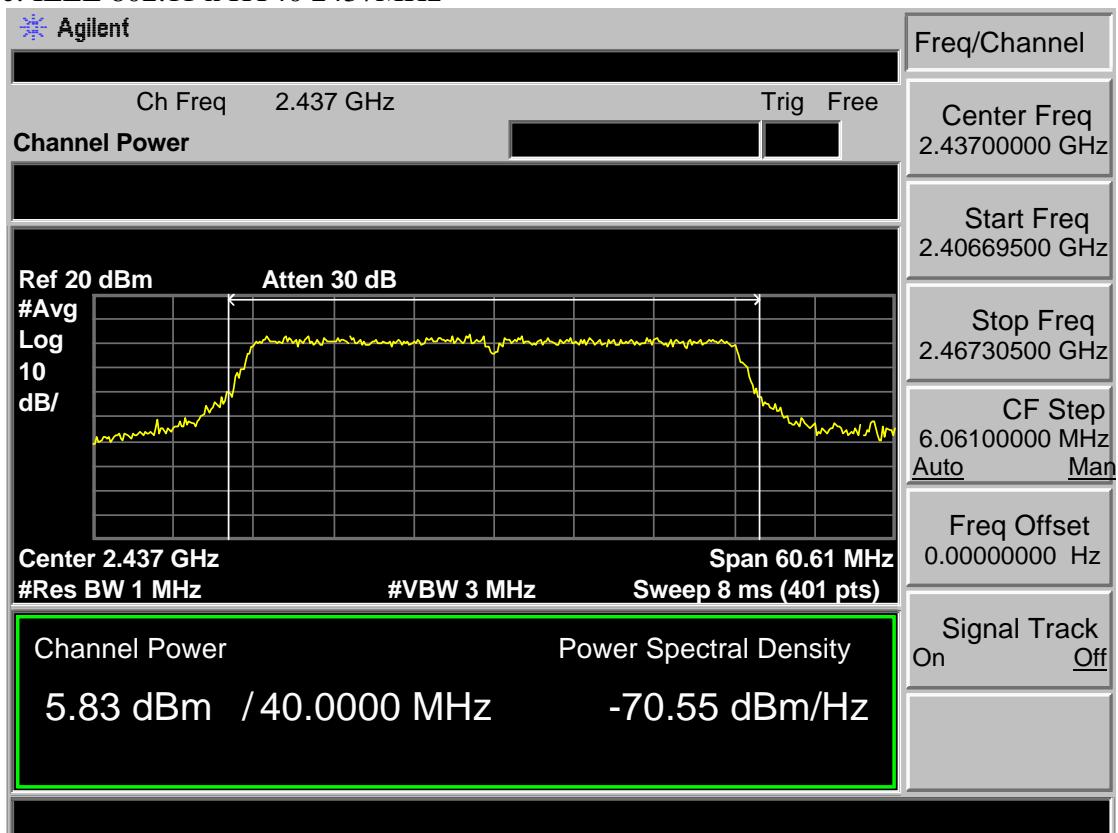
Test Mode: IEEE 802.11 n HT20 2462MHz



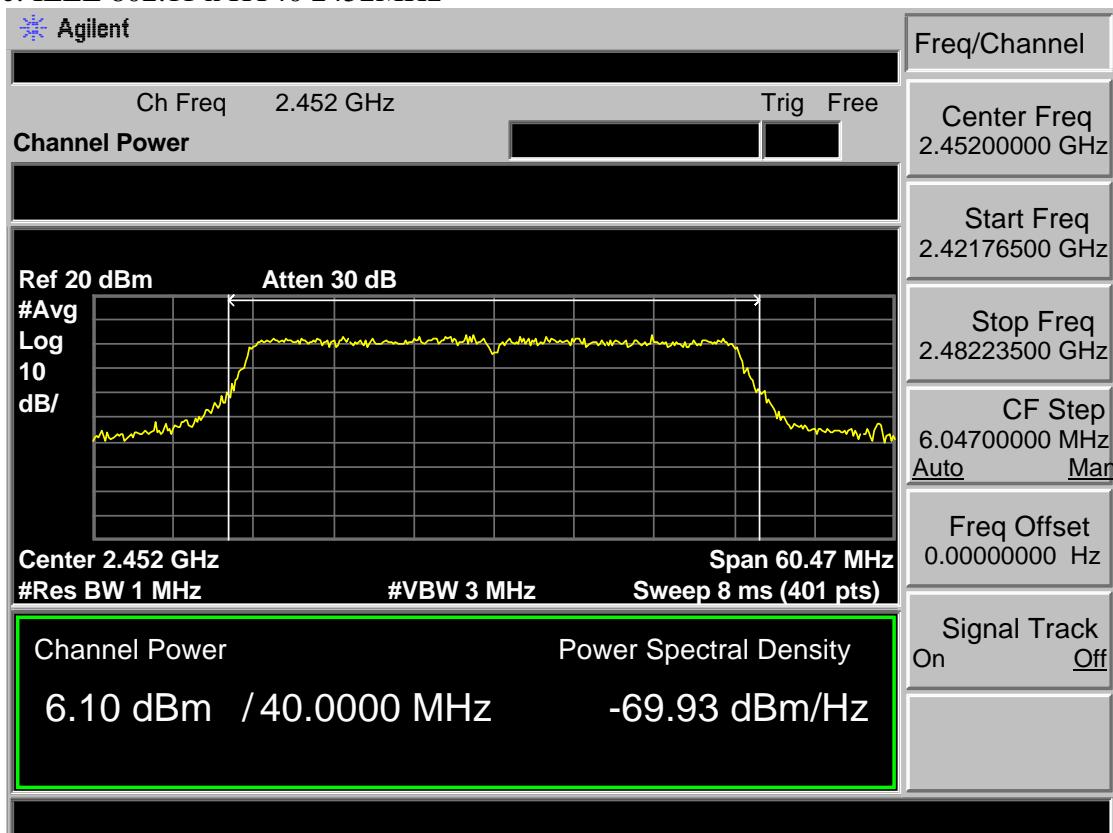
## Test Mode: IEEE 802.11n HT40 2422MHz



## 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

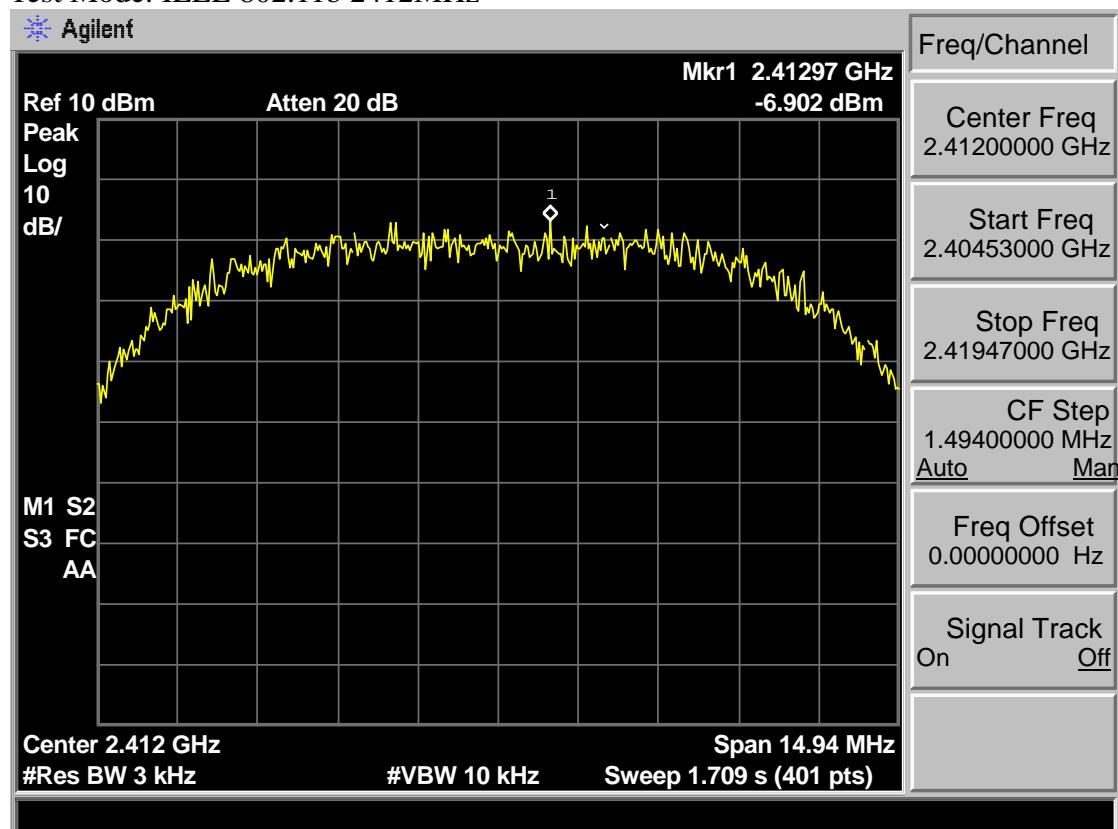
- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
  - (1). Set analyzer center frequency to DTS channel center frequency.
  - (2). 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

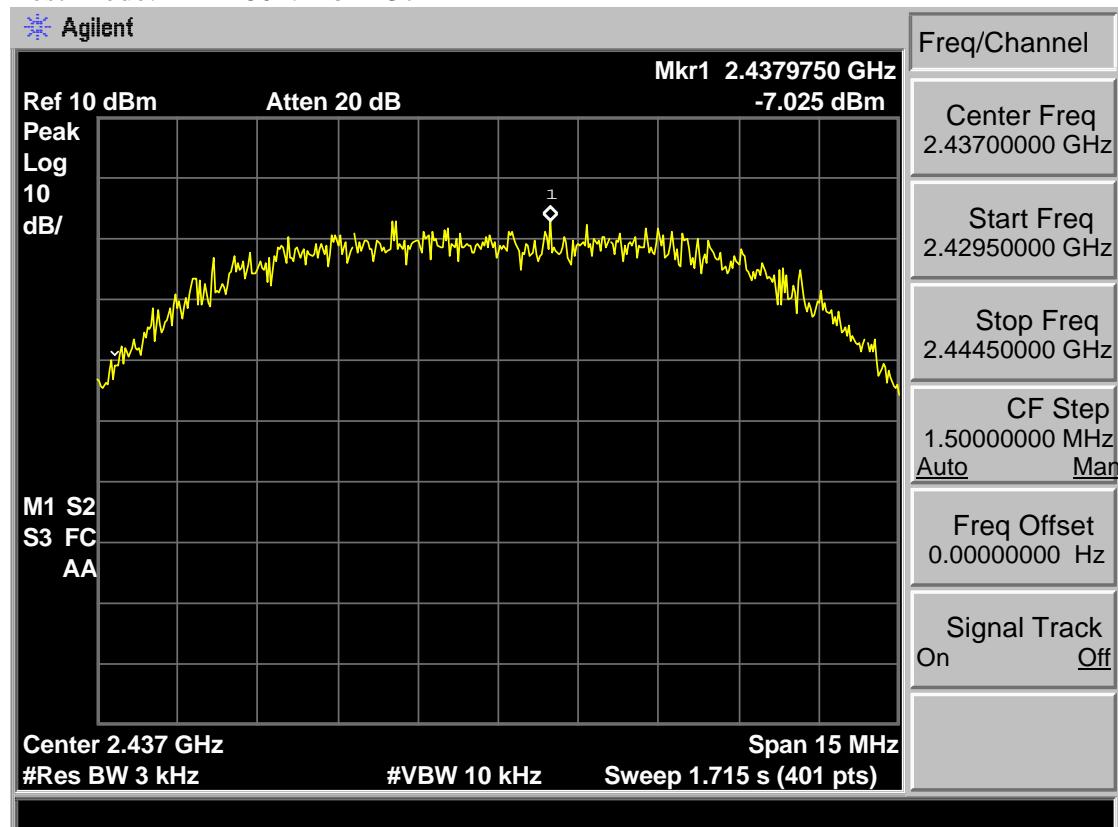
EUT: WiFi Remote Video Doorbell			
M/N: RL-IP02C			
Test date: 2016-09-27		Tested by: Tony Tang	Test site: RF site
Pass			
Test Mode	CH	Power density (dBm/3kHz)	Limit (dBm/3kHz)
IEEE 802.11 b	CH1	-6.902	8
	CH7	-7.025	8
	CH13	-7.142	8
IEEE 802.11 g	CH1	-13.55	8
	CH7	-13.64	8
	CH13	-14.43	8
IEEE 802.11 n HT 20	CH1	-14.08	8
	CH7	-14.59	8
	CH13	-14.63	8
IEEE 802.11 n HT 40	CH3	-18.77	8
	CH6	-18.36	8
	CH9	-18.48	8
Conclusion: PASS			

## 8.4 Test Data

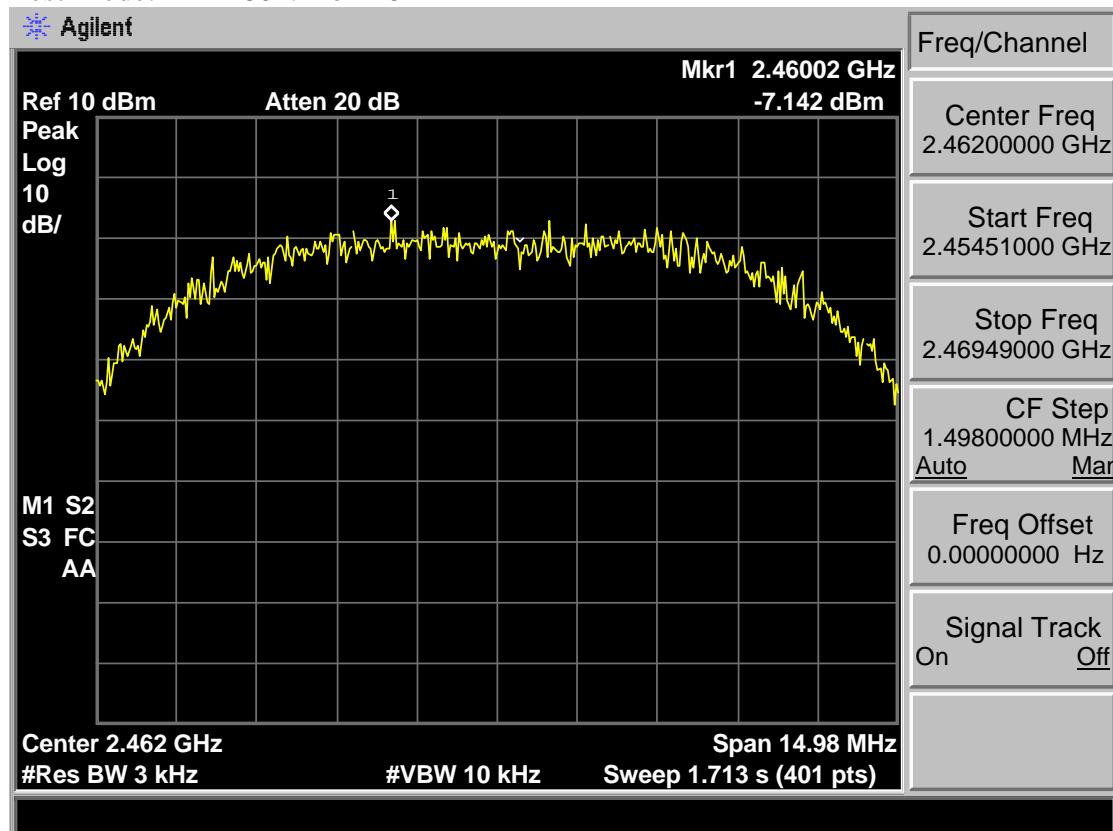
Test Mode: IEEE 802.11b 2412MHz



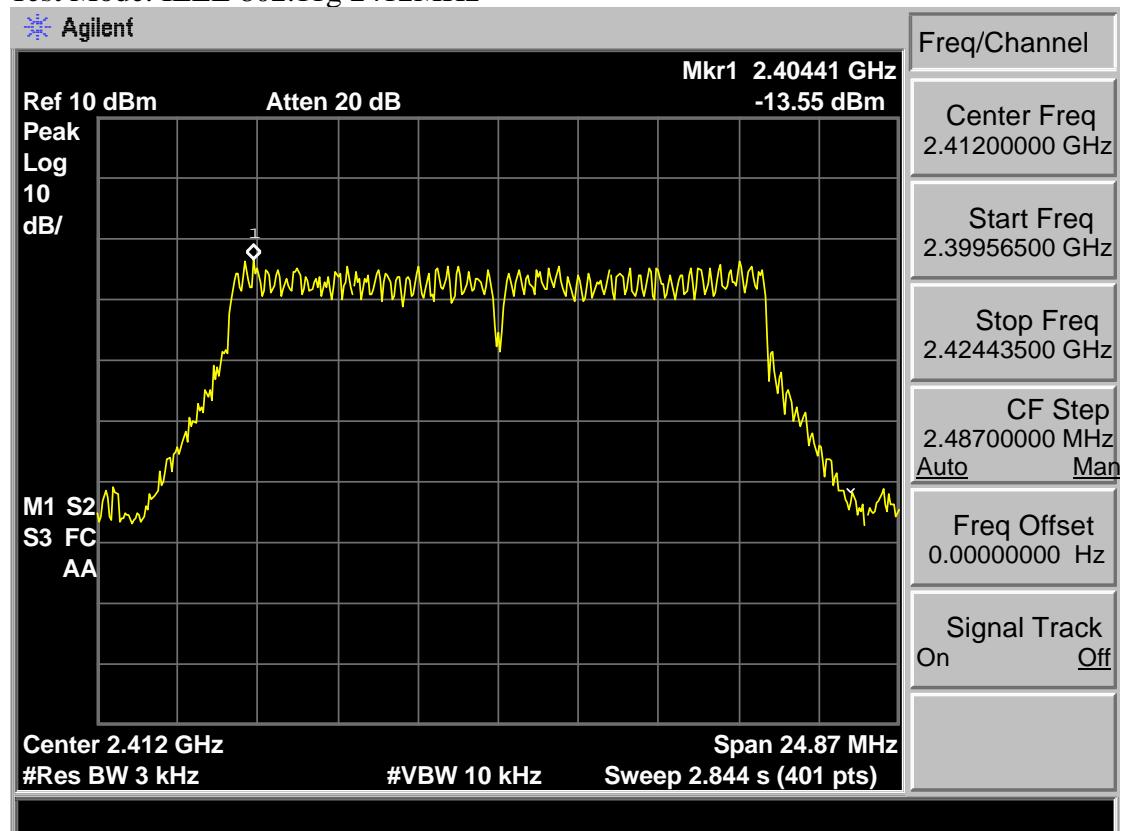
Test Mode: IEEE 802.11b 2437MHz



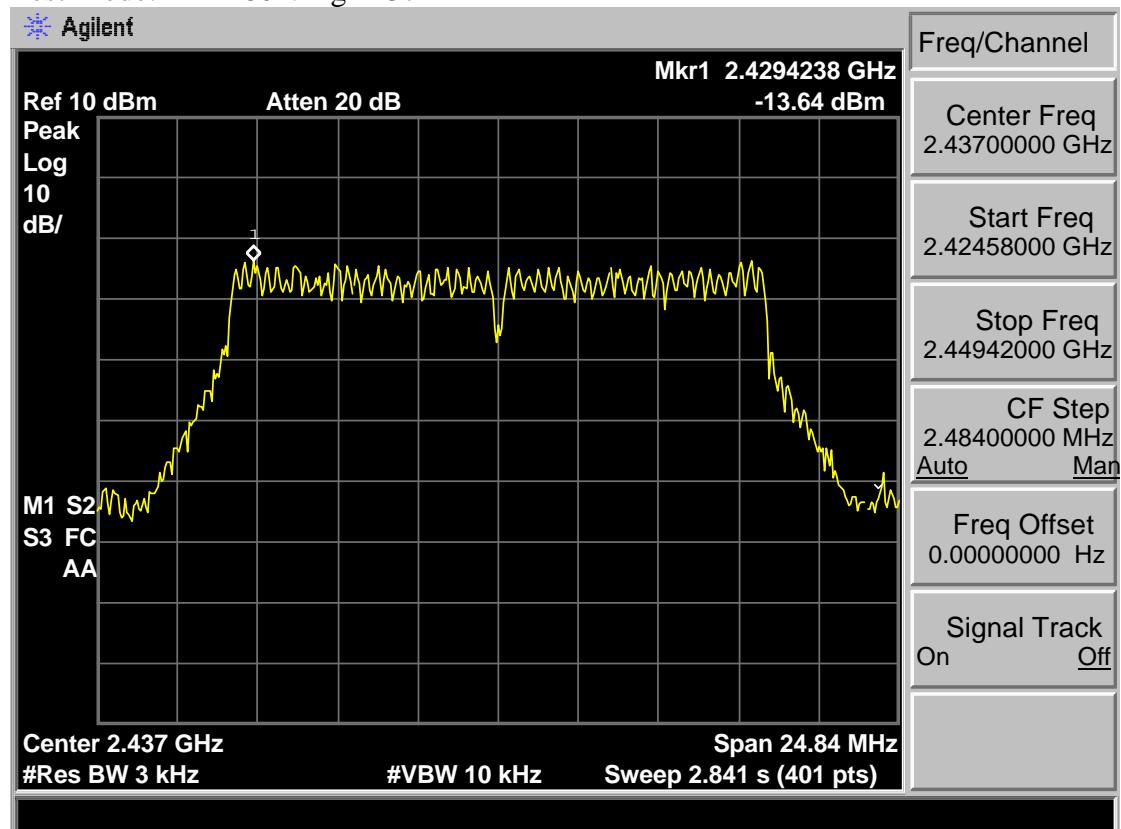
Test Mode: IEEE 802.11b 2462MHz



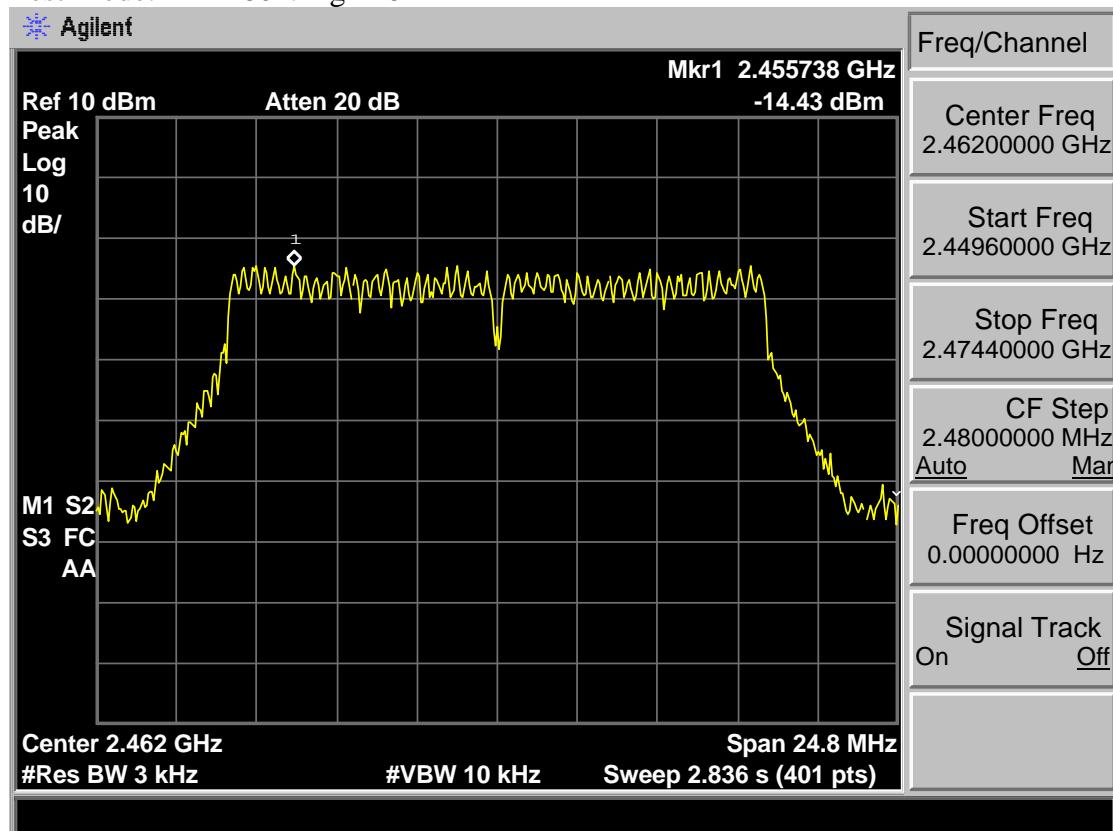
## Test Mode: IEEE 802.11g 2412MHz



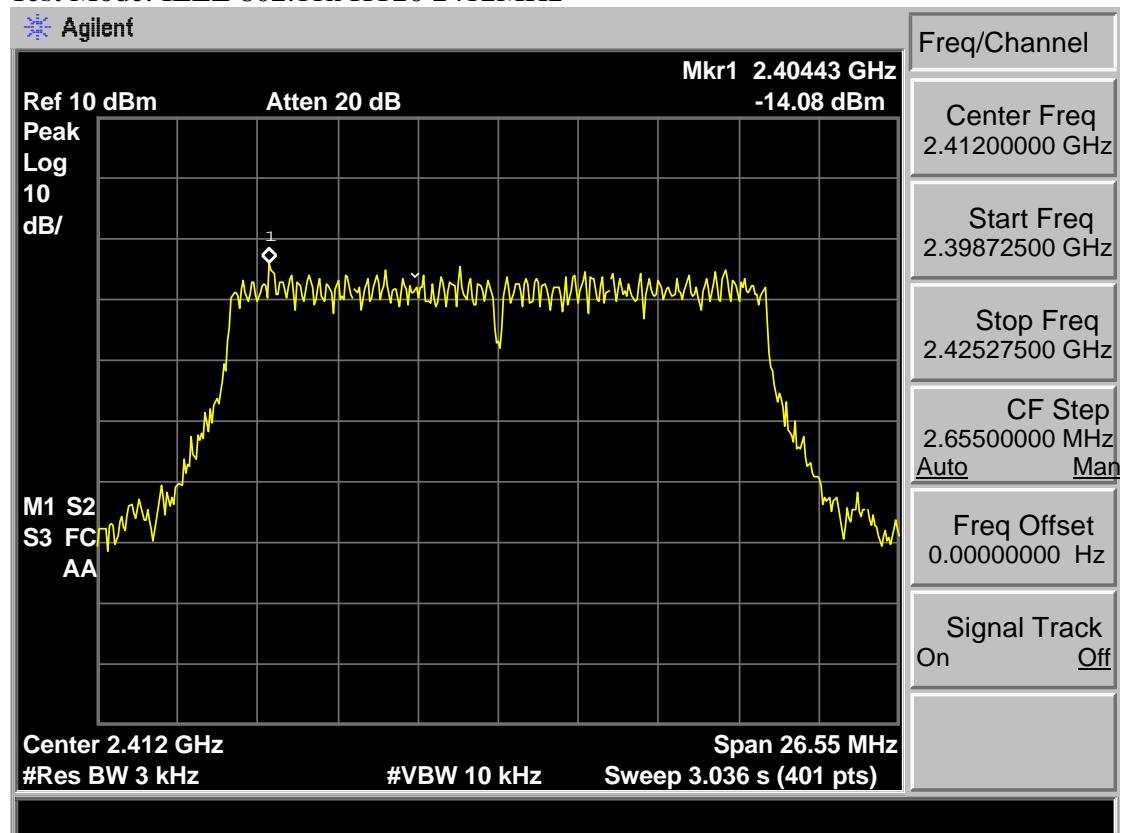
## Test Mode: IEEE 802.11g 2437MHz



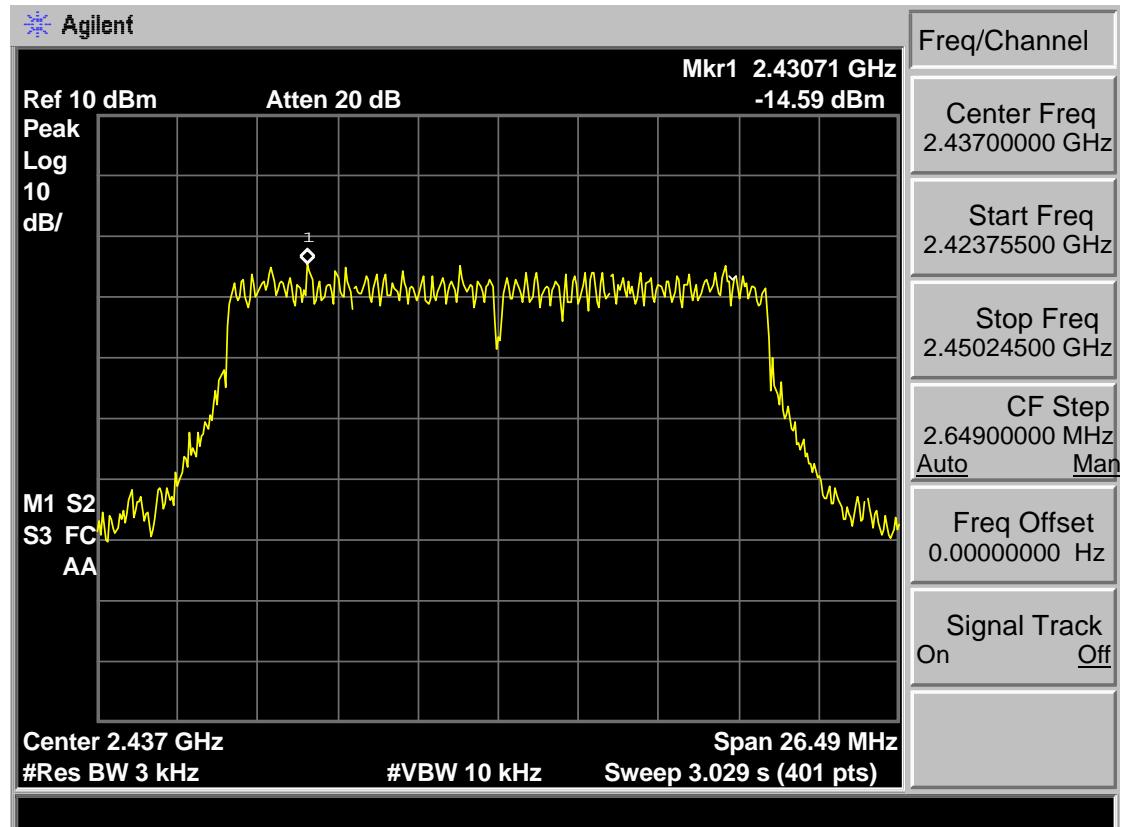
Test Mode: IEEE 802.11g 2462MHz



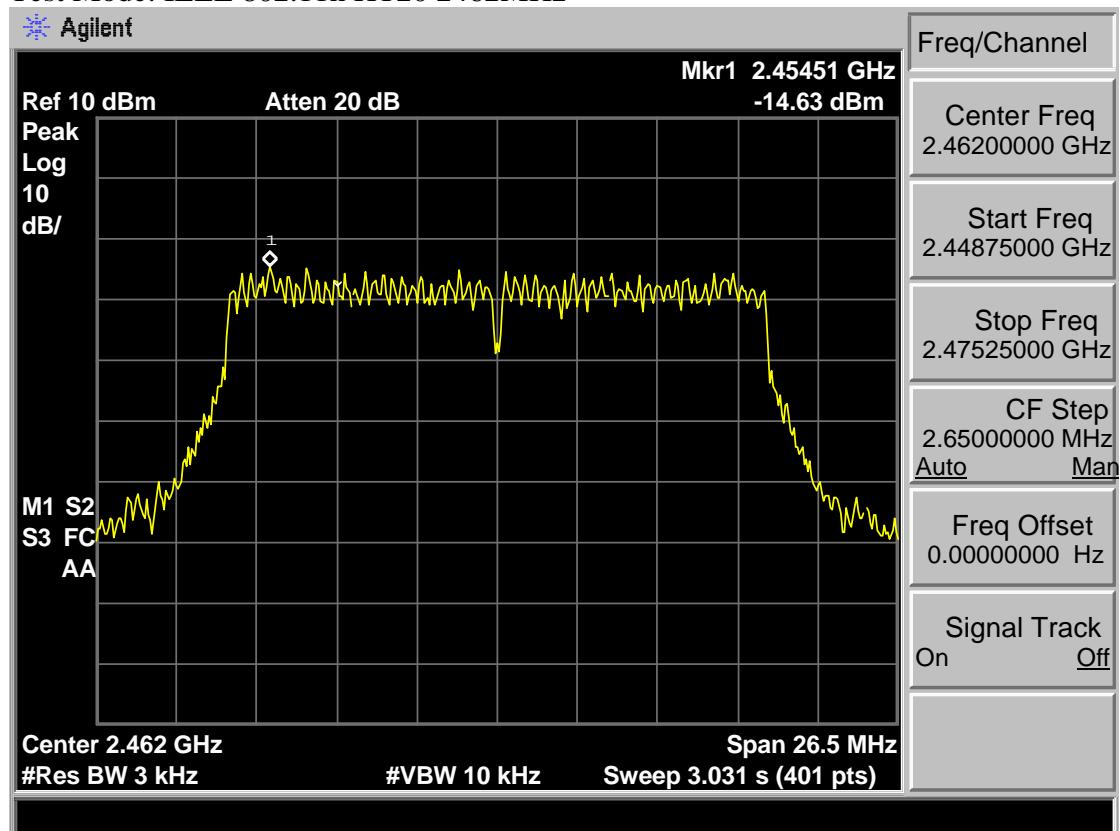
## Test Mode: IEEE 802.11n HT20 2412MHz



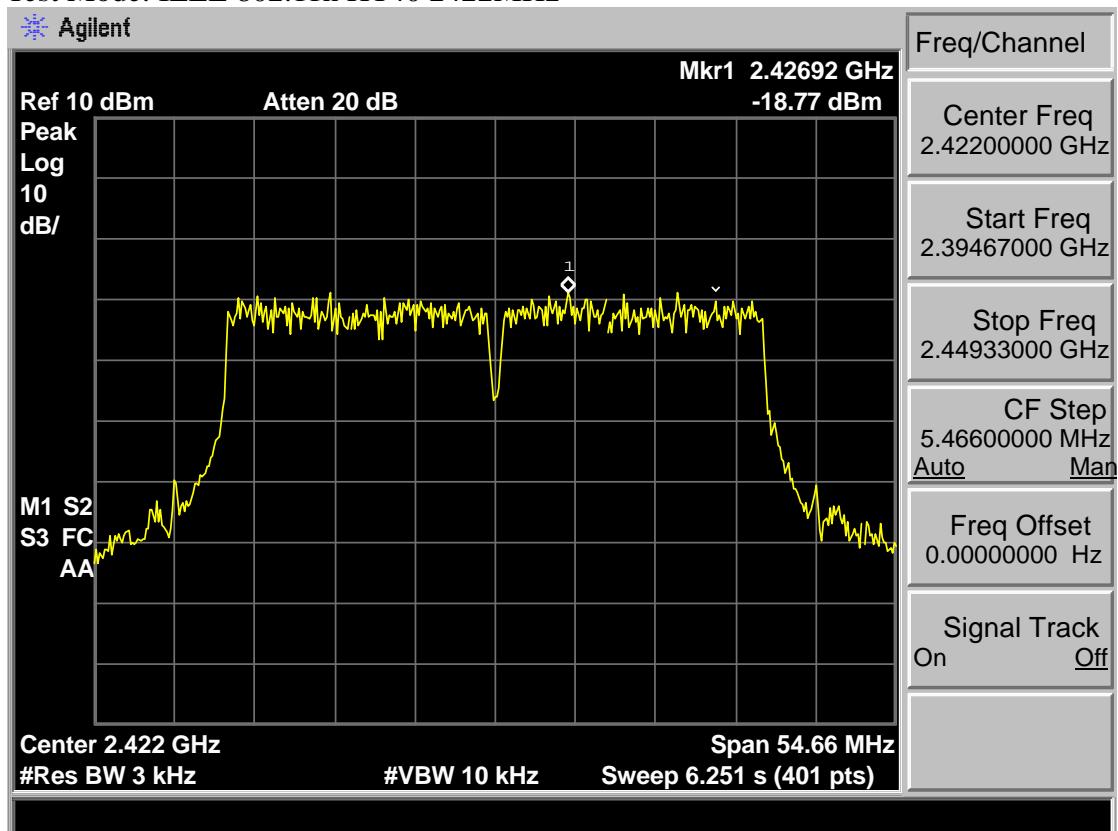
## Test Mode: IEEE 802.11n HT20 2437MHz



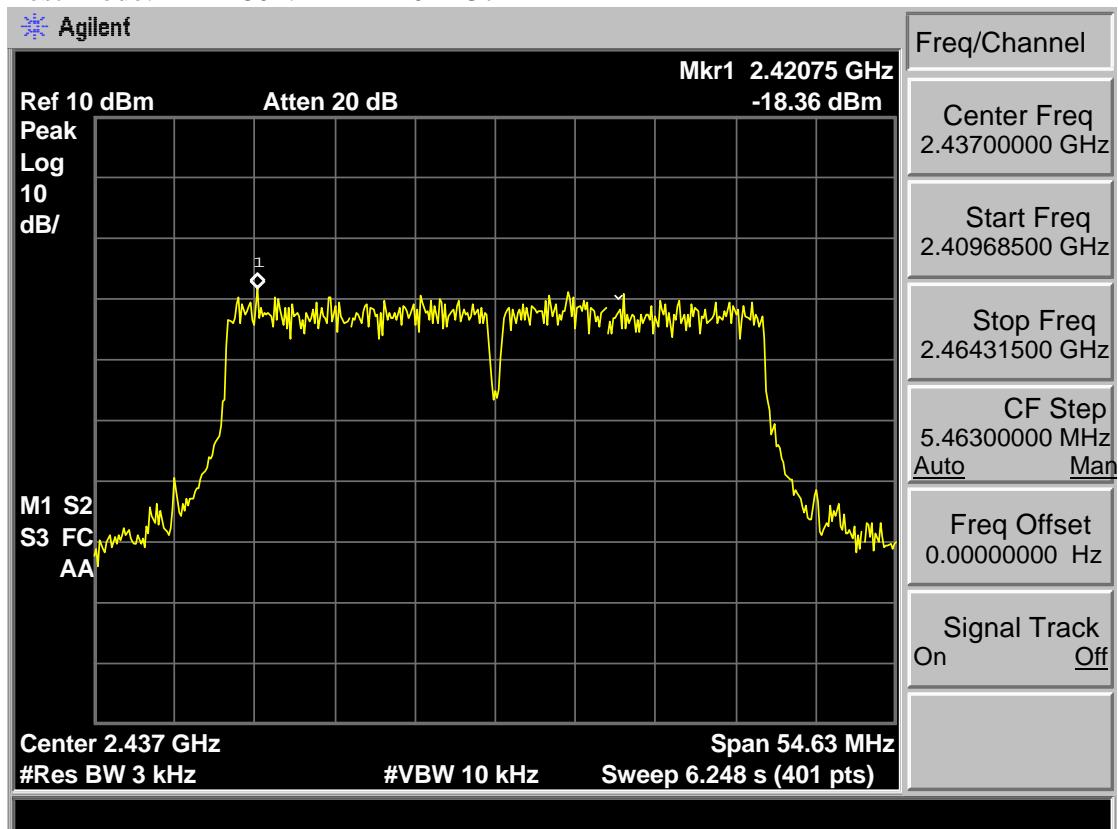
Test Mode: IEEE 802.11n HT20 2462MHz



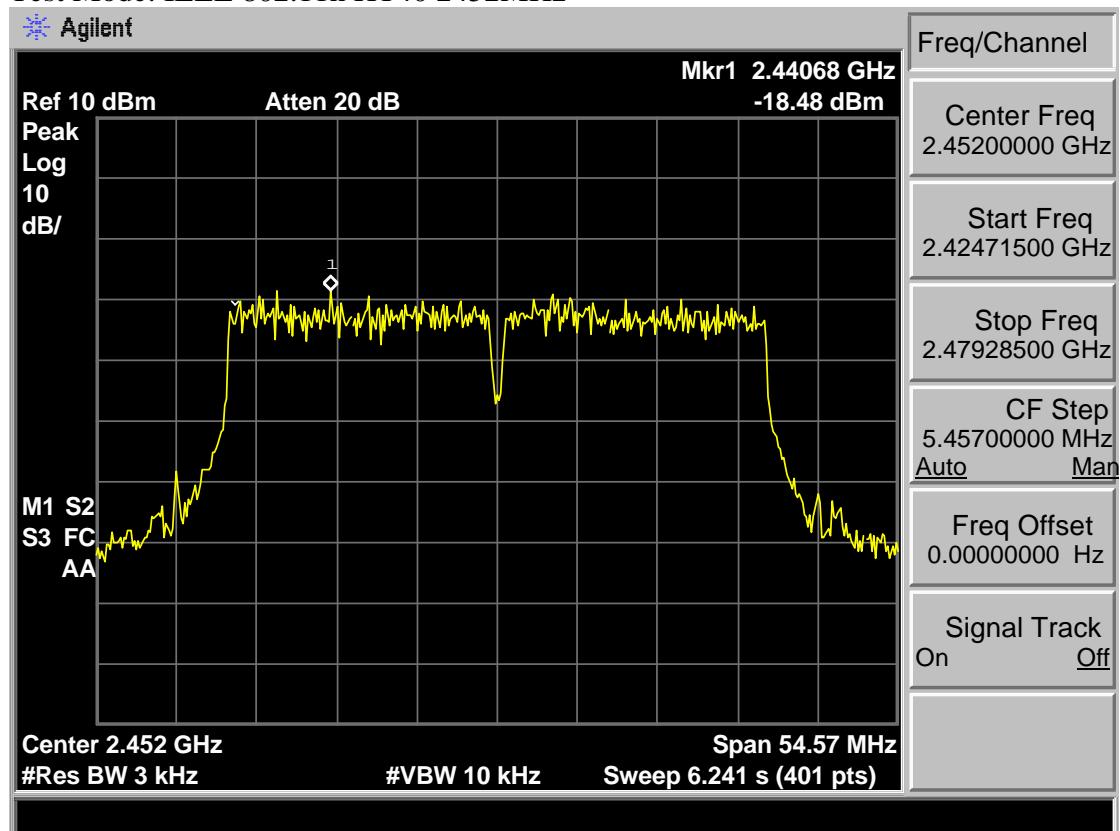
## Test Mode: IEEE 802.11n HT40 2422MHz



## Test Mode: IEEE 802.11n HT40 2437MHz



Test Mode: IEEE 802.11n HT40 2452MHz



## 9 ANTENNA REQUIREMENTS

### 9.1 Limit

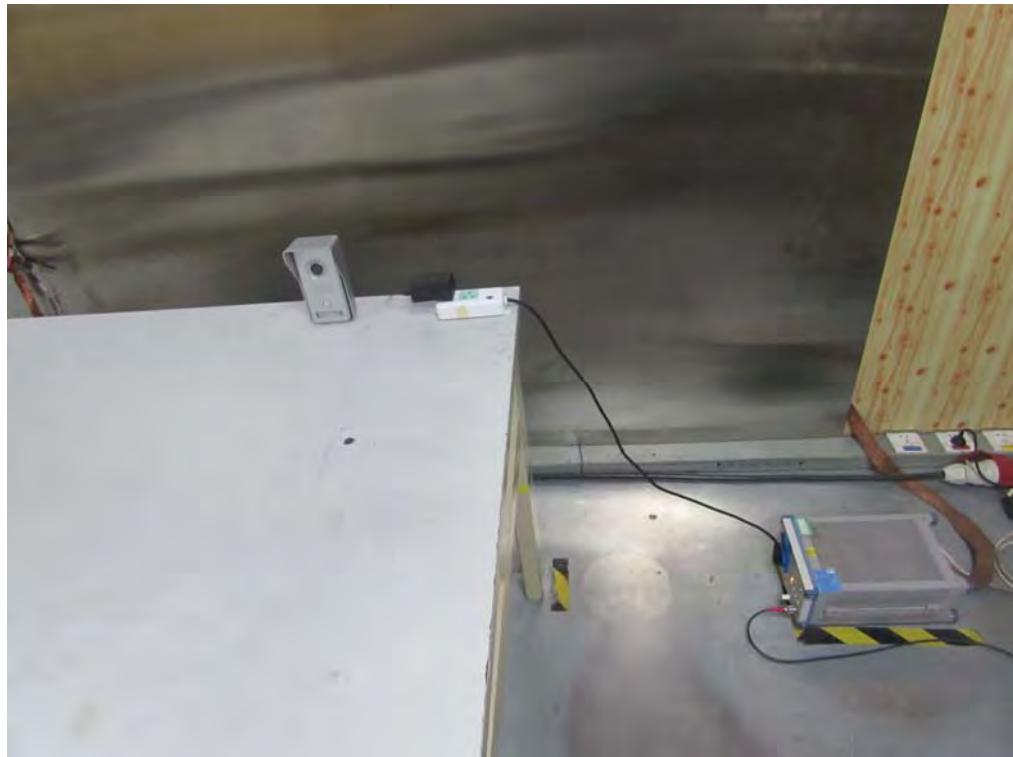
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional 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

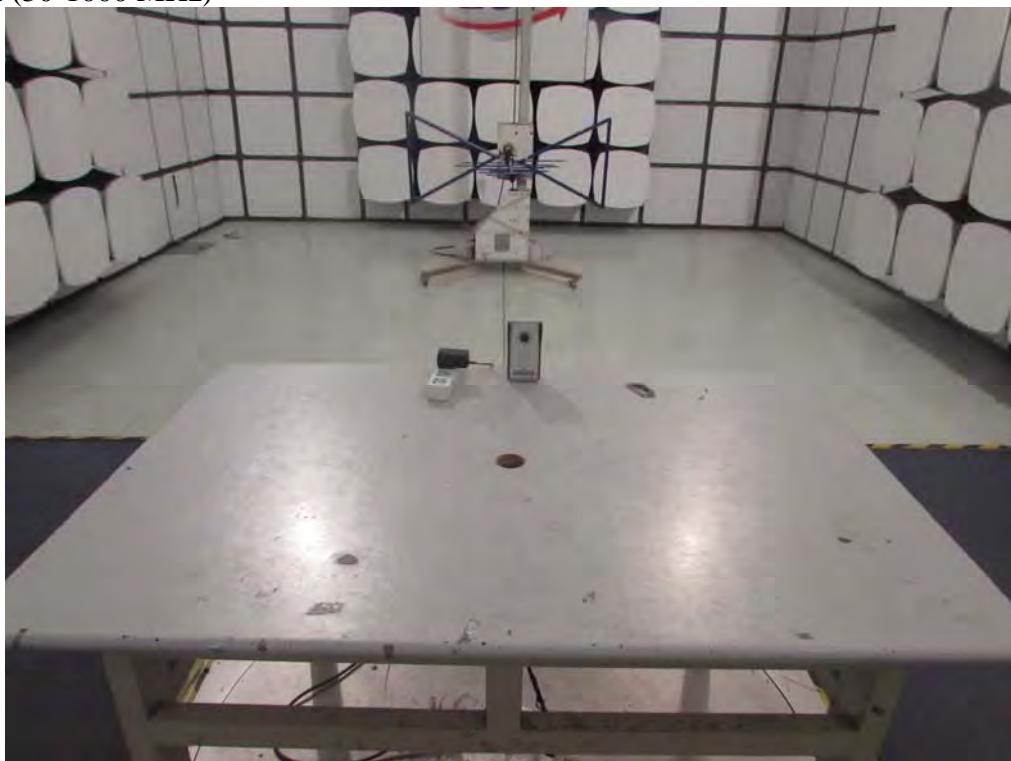
The antennas used for this product are Internal antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2 dBi.

## 10 TEST SETUP PHOTO

Conducted Test



Radiated Test (30-1000 MHz)



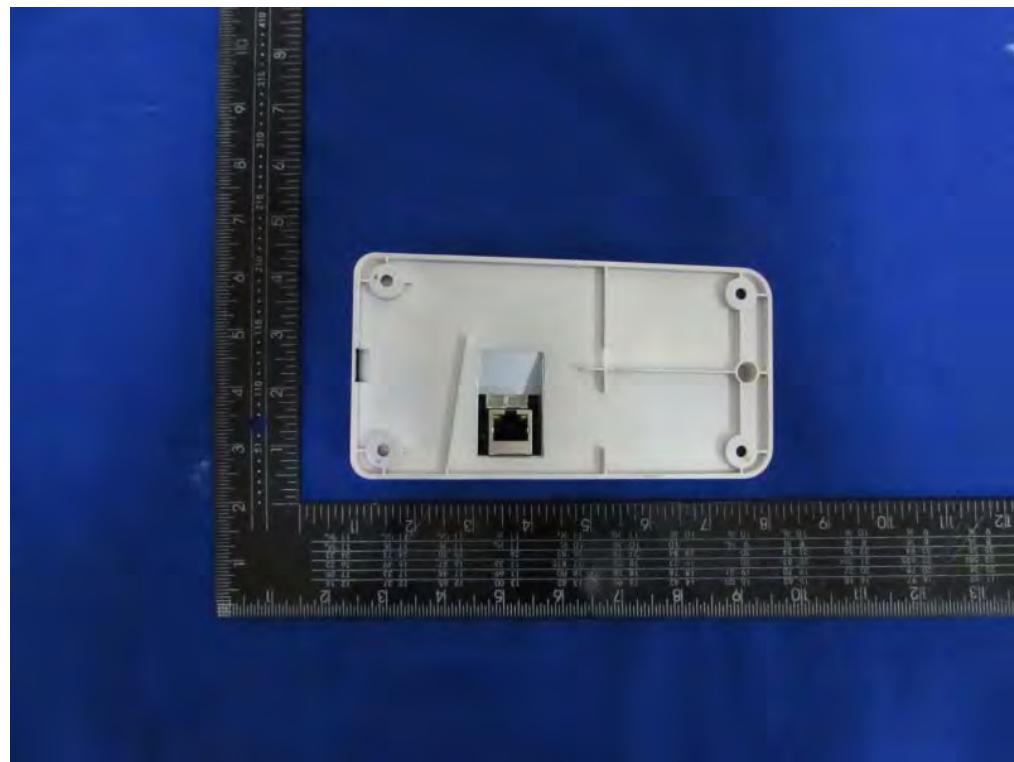
Radiated Test (Above 1GHz)



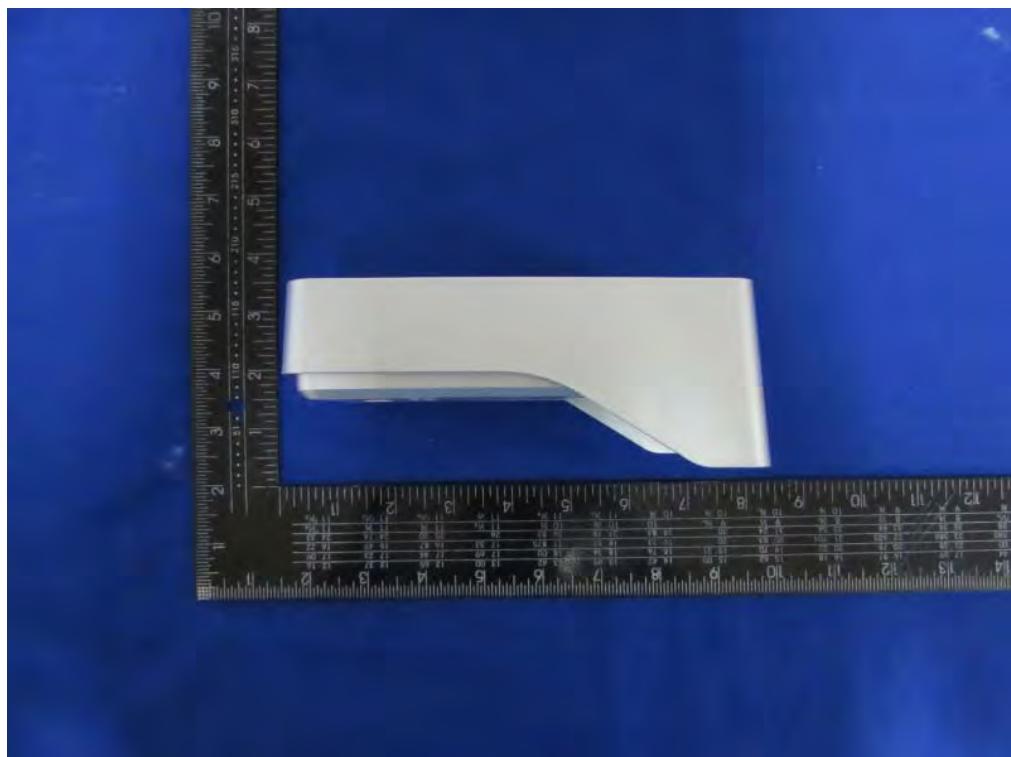
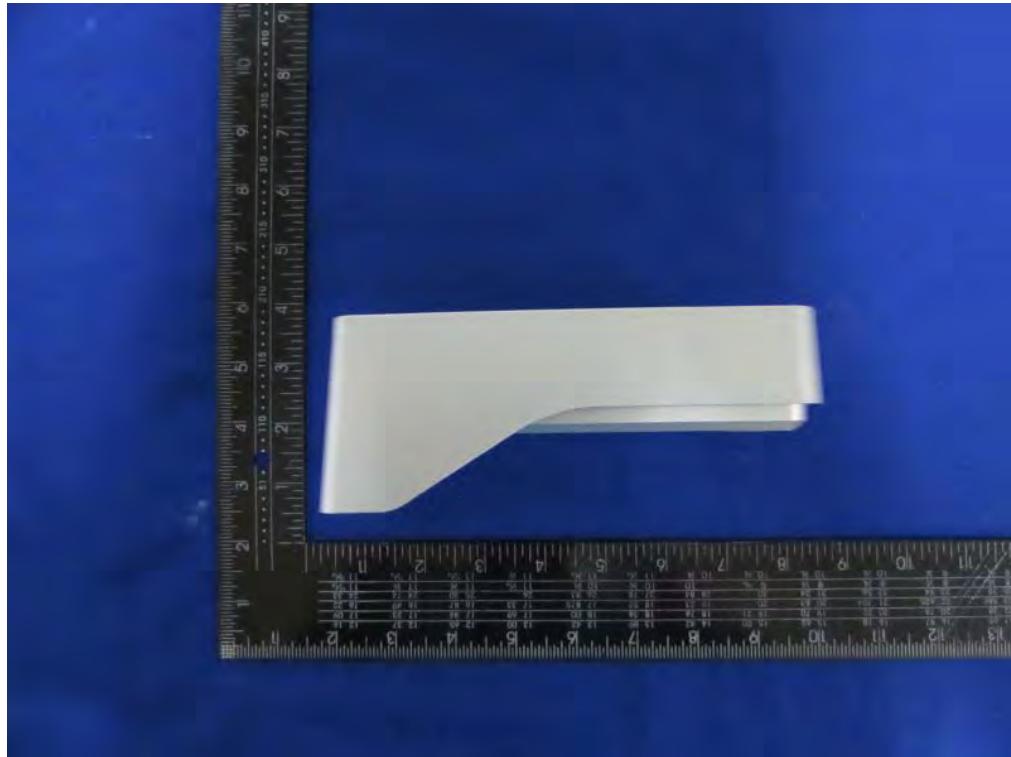
## 11 PHOTOS OF EUT

### External Photos

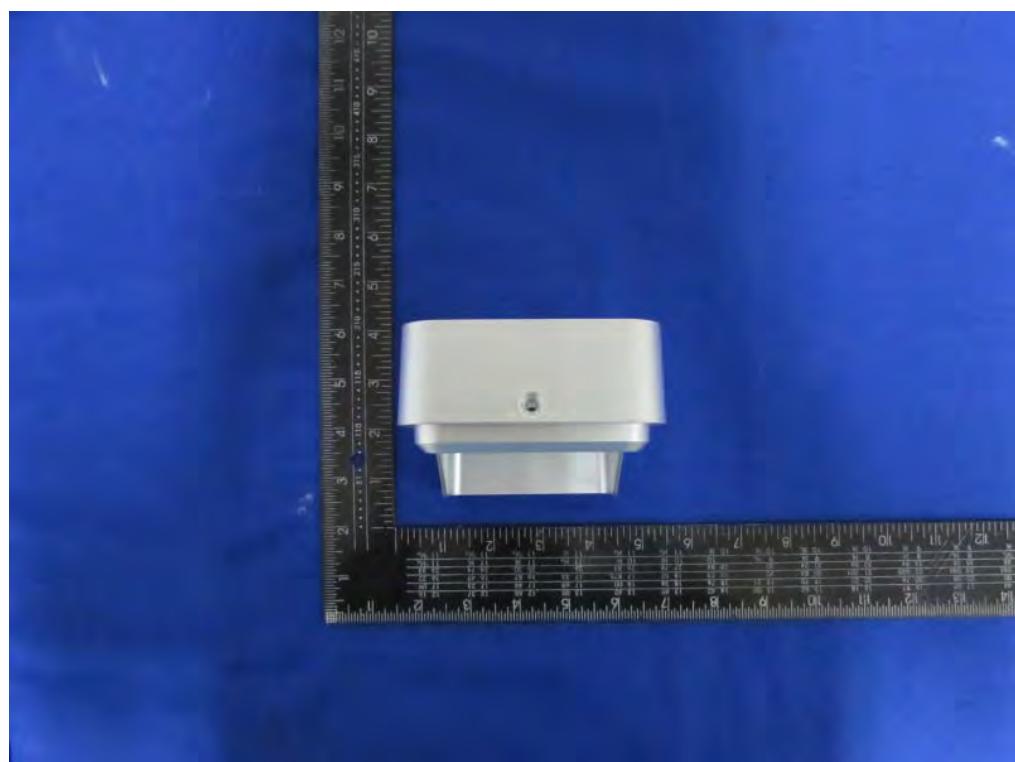
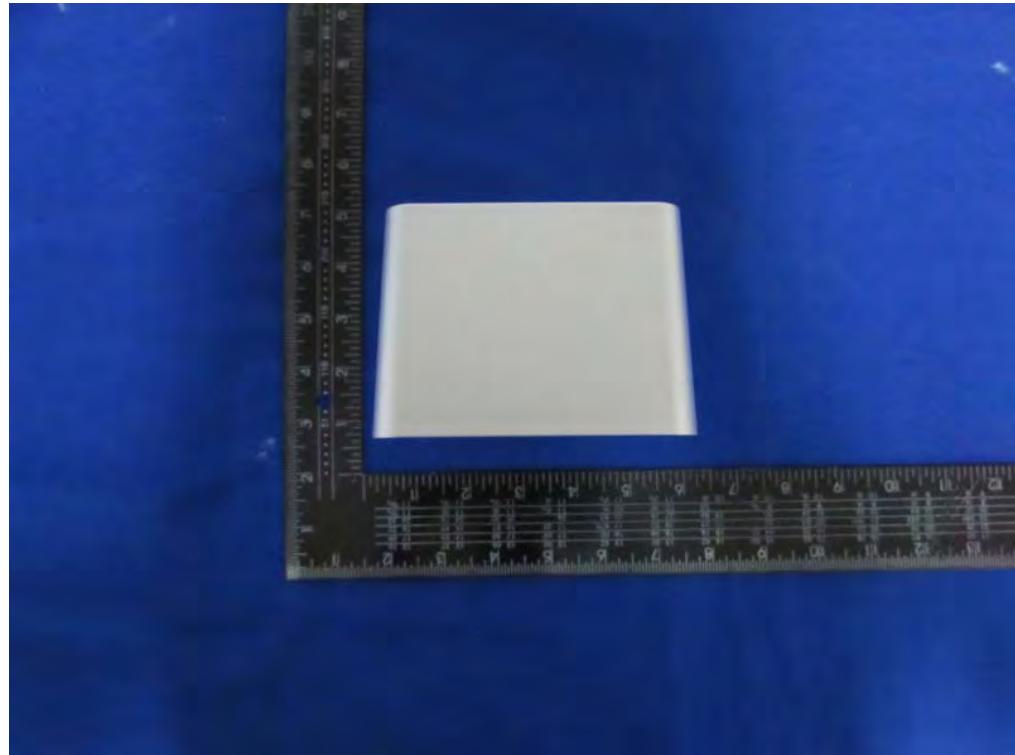
M/N: RL-IP02C



**External Photos**  
M/N: RL-IP02C



**External Photos**  
M/N: RL-IP02C



**External Photos**  
M/N: RL-IP02C



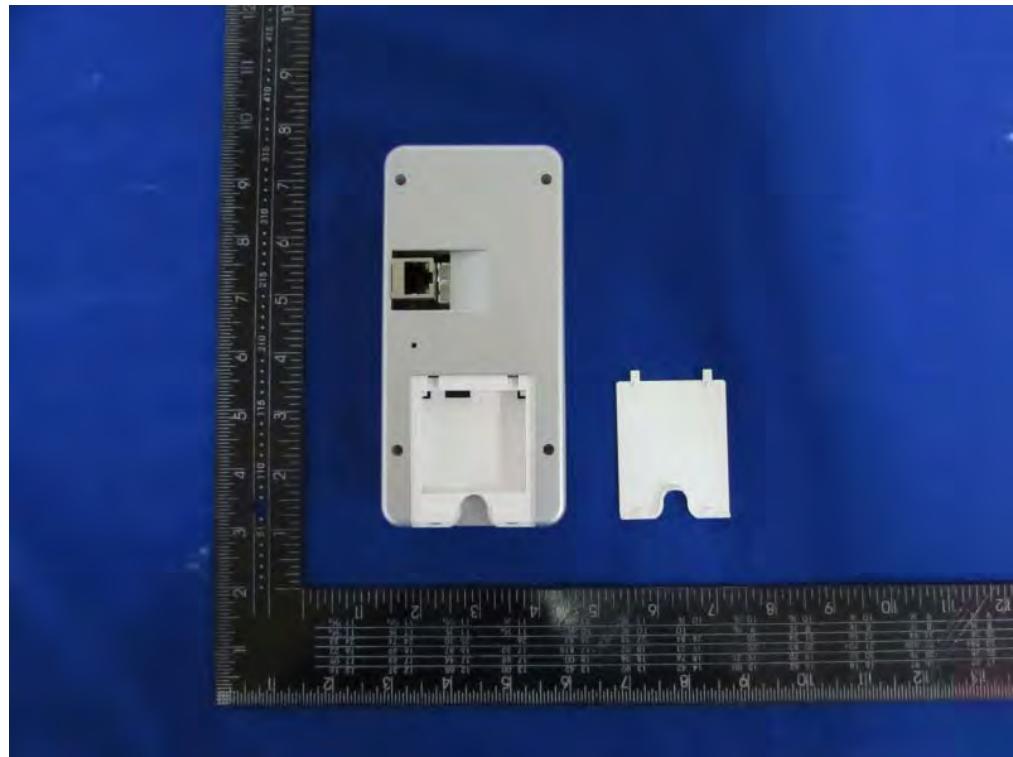
**External Photos**  
M/N: RL-IP02C



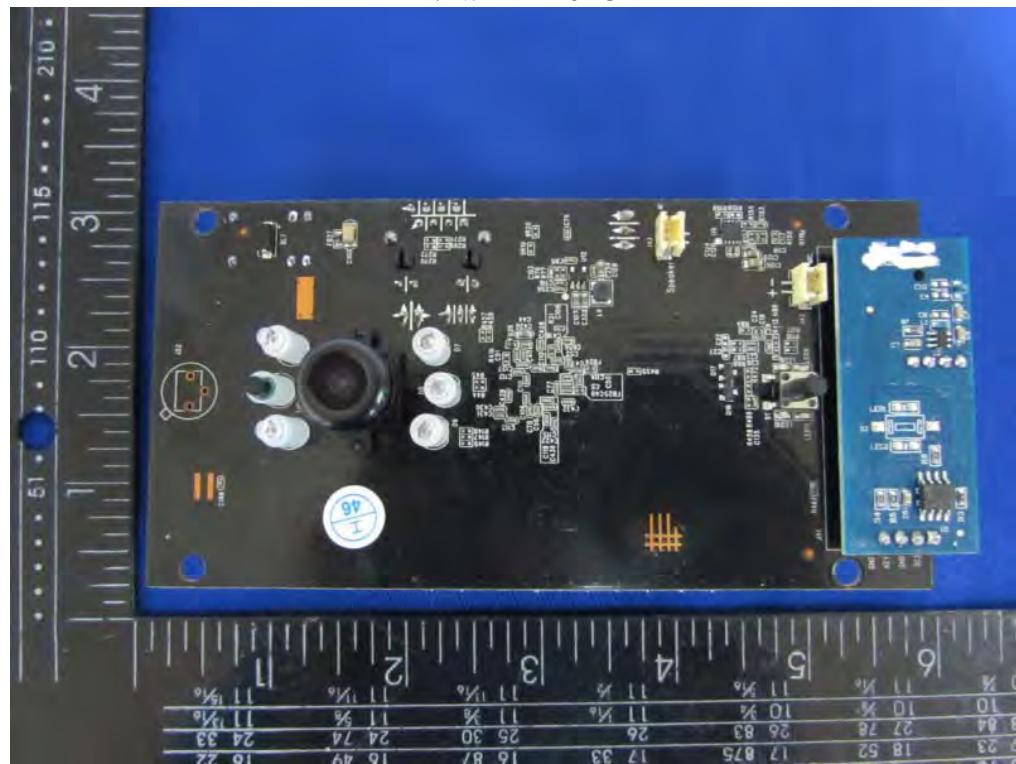
**External Photos**  
M/N: RL-IP02C



**Internal Photos**  
M/N: RL-IP02C

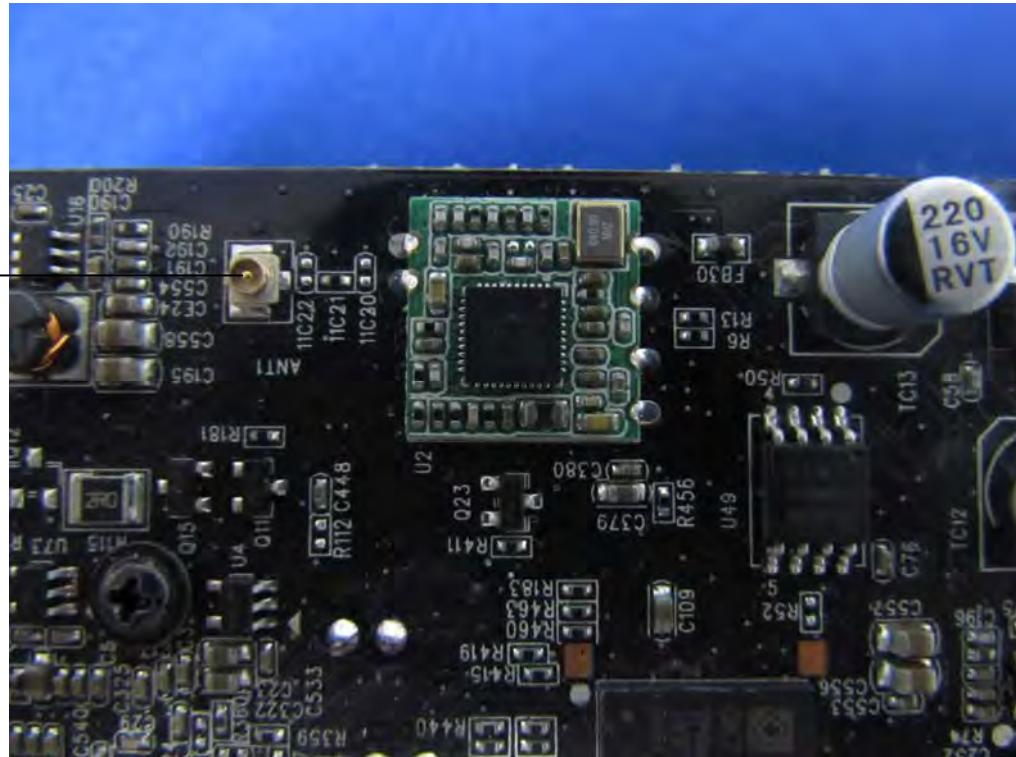


**Internal Photos**  
M/N: RL-IP02C

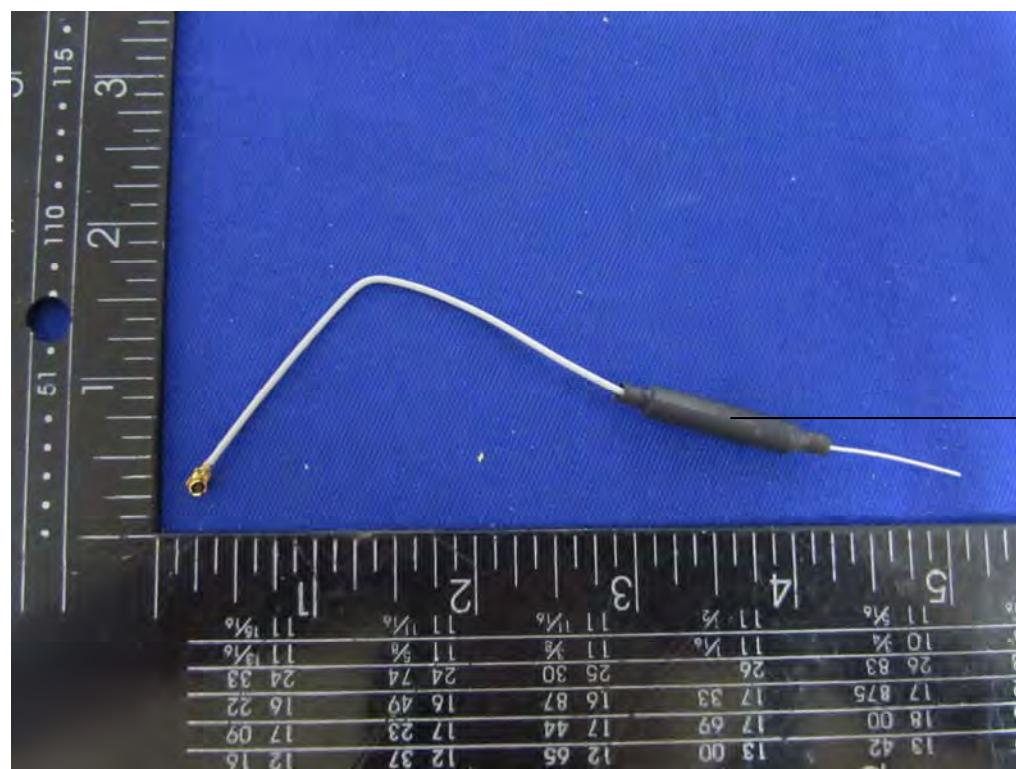


**Internal Photos**  
M/N: RL-IP02C

ipex connector

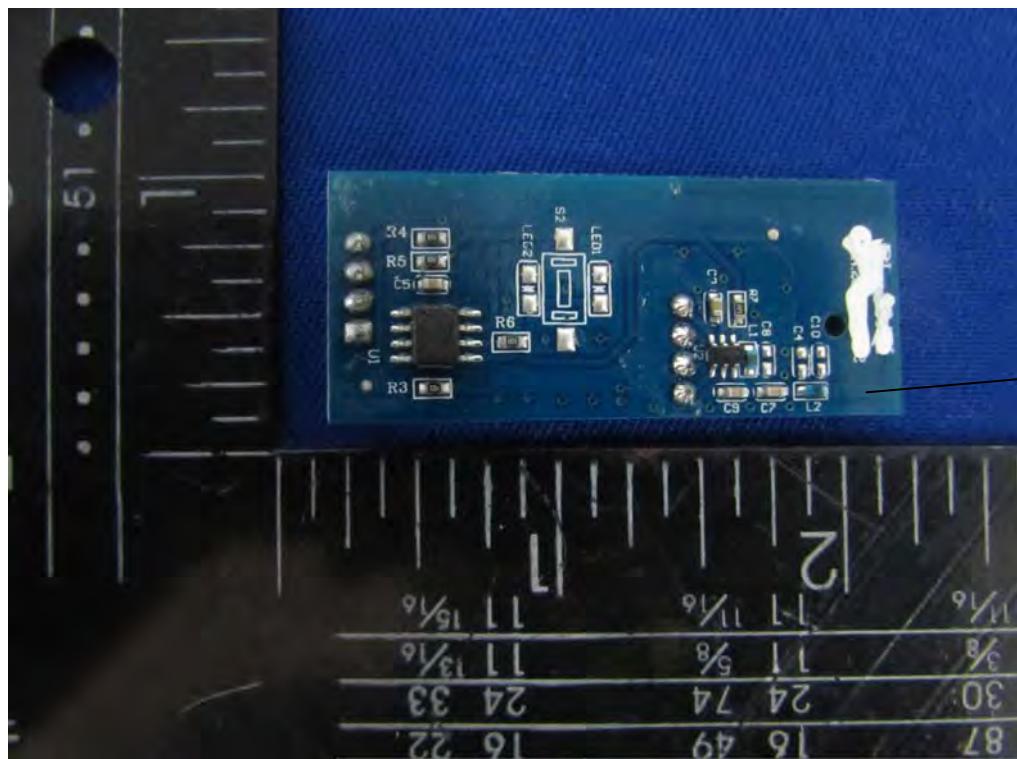
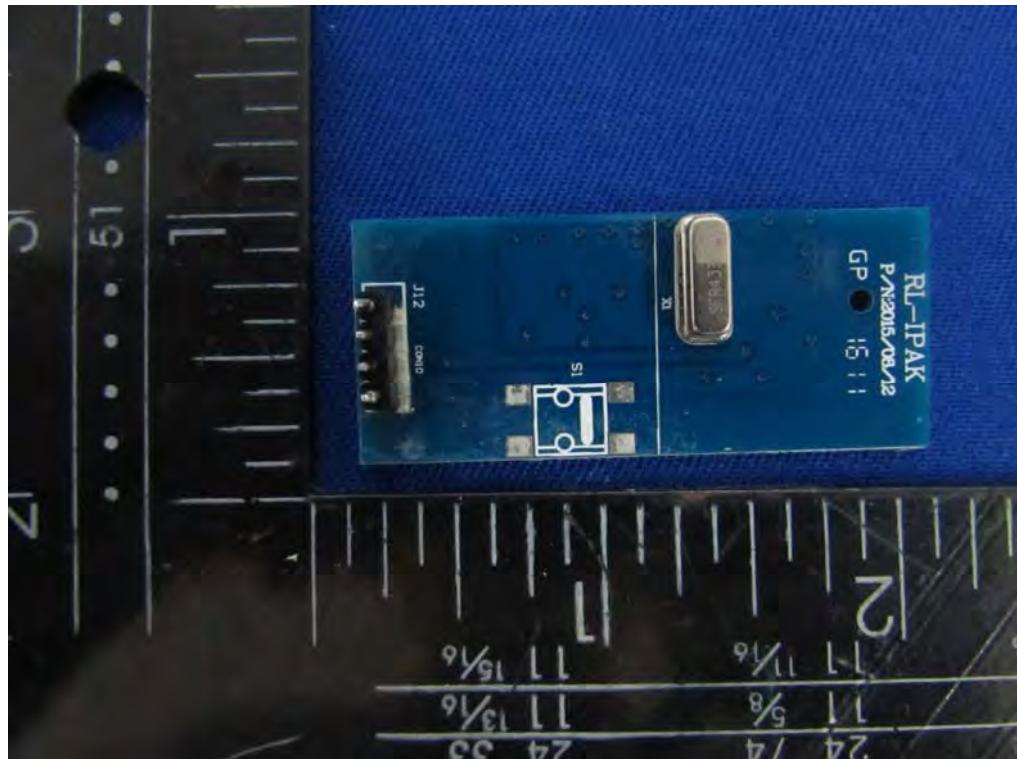


WiFi  
Antenna



# **Internal Photos**

M/N: RL-IP02C



433.92  
Antenna

## Adapter Photos

