

FCC PART 15C TEST REPORT FOR CERTIFICATION  
On Behalf of

Vision Electronics Co., Ltd.

THEATER

Model Number: 6360A

Additional Model: 6360, 0400, 0400A, Theater

FCC ID: Q5P-6360

Prepared for:	Vision Electronics Co., Ltd.
	11F-6, No.400 Huanbei Rd. Jhongli Dist. Taoyuan City, Taiwan
Prepared By:	EST Technology Co., Ltd.
	San Tun Management Zone, Houjie District, Dongguan, China
	Tel: 86-769-83081888-808

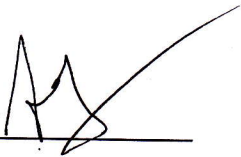
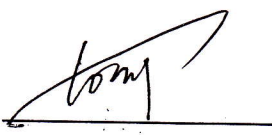

Report Number:	ESTE-R1708132
Date of Test:	June 20~July 09, 2017
Date of Report:	July 10, 2017

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## EST Technology Co., Ltd.

<b>Applicant:</b>	Vision Electronics Co., Ltd.		
<b>Address:</b>	11F-6, No.400 Huanbei Rd. Jhongli Dist. Taoyuan City, Taiwan		
<b>Manufacturer:</b>	VISION ELECTRONICS CO., LTD.		
<b>Address:</b>	No. 5 Ju Long Rd., Shi Gu, Tang Xia, Dong Guan, Guang Dong 523729, China		
<b>E.U.T:</b>	THEATER		
<b>Model Number:</b>	6360A		
<b>Additional Model:</b>	6360, 0400, 0400A, Theater (They are identical except model name only.)		
<b>Power Supply:</b>	DC 3.7V From Battery DC 5V From Adapter Input AC 100-240V/50-60Hz		
<b>Test Voltage:</b>	DC 3.7V From Battery DC 5V From Adapter Input AC 120V/60Hz and 240V/60Hz		
<b>Trade Name:</b>	VRORBIT, Visionhmd, VISION	Serial No.:	-----
<b>Date of Receipt:</b>	June 19, 2017	<b>Date of Test:</b>	June 20~July 09, 2017
<b>Test Specification:</b>	FCC Rules and Regulations Part 15 Subpart C:2016 ANSI C63.10:2013		
<b>Test Result:</b>	<p>The device described above is tested by EST Technology Co., Ltd.. The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.</p> <p>This report applies to above tested sample only and shall not be reproduced in part without written approval of EST Technology Co., Ltd.</p>		
<b>Prepared by:</b>	<b>Reviewed by:</b>	<b>Date:</b> July 10, 2017	
			
Amy / Assistant	Tony / Engineer	Iceman Hu / Manager	
<b>Other Aspects:</b>	None.		
<i>Abbreviations: OK/P=passed    fail/F=failed    n.a/N=not applicable    E.U.T=equipment under tested</i>			
<i>This test report is based on a single evaluation of one sample of above mentioned products ,It is not permitted to be duplicated in extracts without written approval of EST Technology Co., Ltd.</i>			



## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Product Name	:	THEATER	
Model Number	:	6360A, 6360, 0400, 0400A, Theater (They are identical except model name only.)	
FCC ID	:	Q5P-6360	
Modulation	:	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK) IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM) IEEE 802.11n HT20 mode: OFDM (BPSK/QPSK/16QAM/64QAM)	
Operation Frequency	:	IEEE 802.11b/g: 2412 ~ 2462 MHz IEEE 802.11n HT20 : 2412 ~ 2462 MHz	
Number of channel	:	IEEE 802.11b 2412 ~ 2462 MHz: 11 Channels IEEE 802.11g 2412 ~ 2462 MHz: 11 Channels IEEE 802.11n HT20 2412 ~ 2462 MHz: 11 Channels	
Antenna	:	Internal antenna, 2.2 dBi Gain	
		Frequency Range	2400~2483.5 MHz
Sample Type	:	Prototype production	

## 2. SUMMARY OF TEST

### 2.1. Summary of test result

Description of Test Item	Standard	Results
Power Line Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2013	PASS
Radiated Emission	FCC Part 15: 15.209 ANSI C63.10:2013 KDB 558074	PASS
Band Edge Compliance	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Conducted spurious emissions	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
6dB Bandwidth	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Peak Output Power	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Power Spectral Density	FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074	PASS
Antenna requirement	FCC Part 15: 15.203	PASS
Note: KDB 558074 D01 DTS Meas Guidance v04		

2.2. Test Facilities

EMC Lab	:	<p>Certificated by CNAS, CHINA                      Registration No.: L5288                      Date of registration: November 13, 2014</p> <p>Certificated by FCC, USA                      Registration No.: 989591                      Date of registration: November 15, 2016</p> <p>Certificated by Industry Canada                      Registration No.: 9405A-1                      Date of registration: December 30, 2015</p> <p>Certificated by VCCI, Japan                      Registration No.: R-3663 &amp; C-4103                      Date of registration: July 25, 2014</p> <p>Certificated by TUV Rheinland, Germany                      Registration No.: UA 50195514 0001                      Date of registration: February 07, 2015</p> <p>Certificated by TUV/PS, Shenzhen                      Registration No.: SCN1017                      Date of registration: January 27, 2011</p> <p>Certificated by Intertek ETL SEMKO                      Registration No.: 2011-RTL-L1-18                      Date of registration: April 28, 2011</p> <p>Certificated by Siemic, Inc.                      Registration No.: SLCN021                      Date of registration: November 8, 2011</p> <p>Certificated by Nemko, Hong Kong                      Registration No.: 175193                      Date of registration: May 4, 2011</p>
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	:	A1401
Manufacturer	:	Apple
Input	:	AC 100-240V, 50/60Hz
Output	:	DC 5.2V, 2.4A

### 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 set into Wi-Fi test mode by software before test.



(EUT: THEATER)



### 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	2422MHz	2437MHz	2452MHz
IEEE 802.11n HT40 Receiving	2422MHz	2437MHz	2452MHz

### 2.6. Channel List for wifi

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

## 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 17,17	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	101260	June 17,17	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June 17,17	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 17,17	1 Year
Loop Antenna	ETS-LINDGREN	6502	00071730	June 08,17	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	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 17,17	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June 17,17	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June 08,17	1 Year
Signal Amplifier	Agilent	310N	187037	June 17,17	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	1 Year

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

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120D1002	June 08,17	1 Year
Board-Band Antenna	Horn SCHWARZBECK	BBHA 9170	9170-497	June 08,17	1 Year
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June 17,17	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	June 17,17	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June 17,17	1 Year

### 3 POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB( $\mu$ V)	Average Level dB( $\mu$ V)
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, 10cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

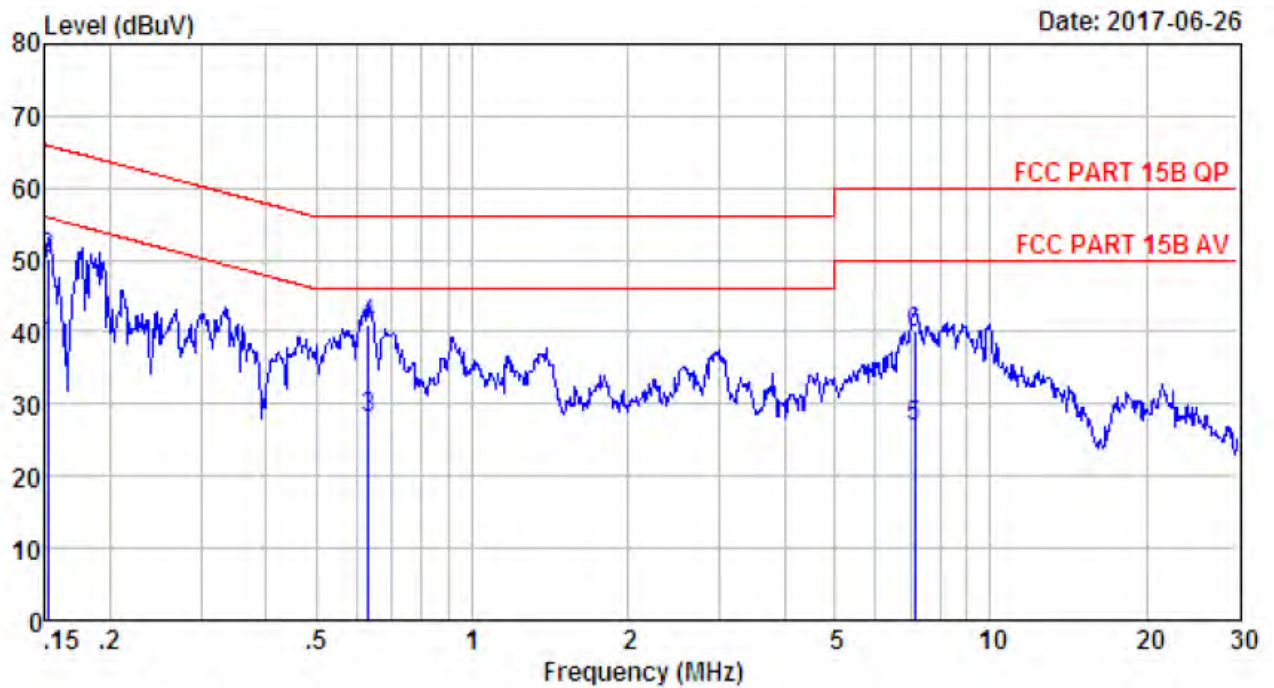
The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

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

#### 3.3. Test Result

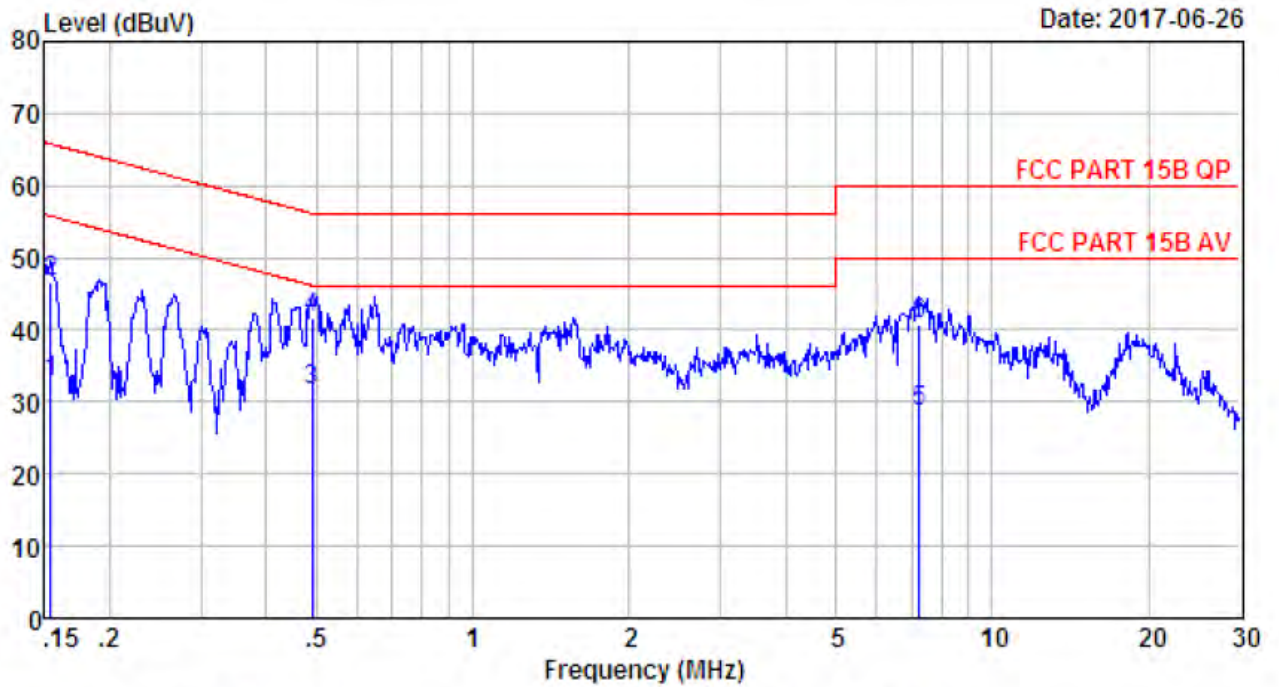
**PASS.**

### 3.4. Test data



Site no : 844 Shield Room Data no. : 201  
 Env. / Ins. : Temp:25.3°C Humi:58% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 5V From adapter Input AC 240V/60Hz  
 M/N : 6360A  
 Test Mode : TX Mode

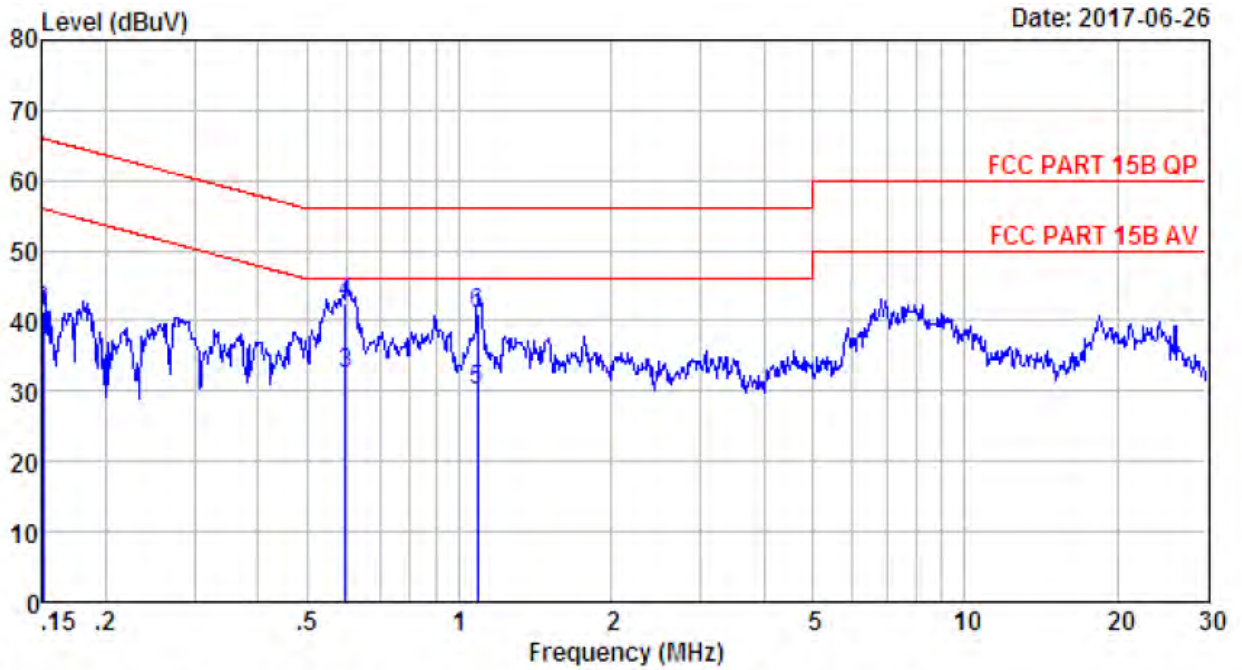
	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.15	9.61	9.81	18.67	38.09	55.91	17.82	Average
2	0.15	9.61	9.81	30.67	50.09	65.91	15.82	QP
3	0.63	9.60	9.81	8.64	28.05	46.00	17.95	Average
4	0.63	9.60	9.81	21.64	41.05	56.00	14.95	QP
5	7.14	9.66	9.87	7.47	27.00	50.00	23.00	Average
6	7.14	9.66	9.87	20.47	40.00	60.00	20.00	QP



Site no : 844 Shield Room Data no. : 203  
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 5V From adapter Input AC 240V/60Hz  
 M/N : 6360A  
 Test Mode : TX Mode

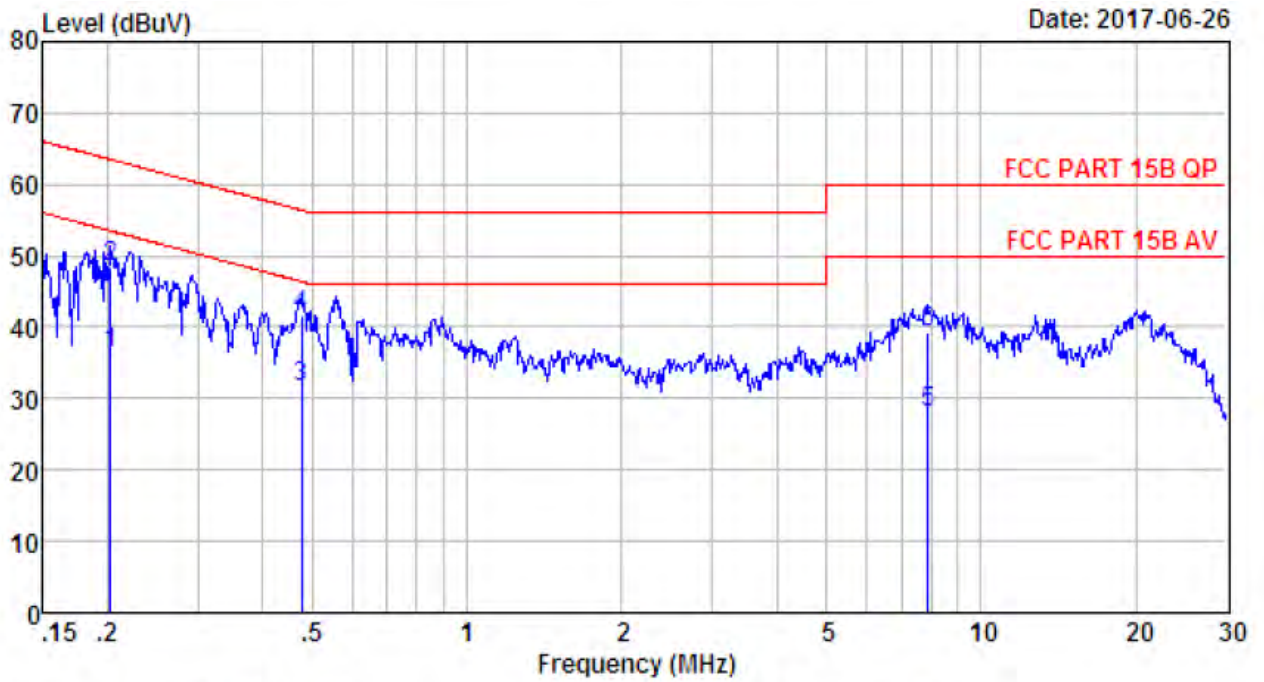
	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.15	9.47	9.81	13.35	32.63	55.78	23.15	Average
2	0.15	9.47	9.81	27.35	46.63	65.78	19.15	QP
3	0.49	9.59	9.81	12.32	31.72	46.14	14.42	Average
4	0.49	9.59	9.81	22.32	41.72	56.14	14.42	QP
5	7.25	9.66	9.87	9.17	28.70	50.00	21.30	Average
6	7.25	9.66	9.87	21.17	40.70	60.00	19.30	QP





Site no : 844 Shield Room Data no. : 205  
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : LINE  
 Limit : FCC PART 15B QP  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 5V From adapter Input AC 120V/60Hz  
 M/N : 6360A  
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.15	9.61	9.81	10.95	30.37	56.00	25.63	Average
2	0.15	9.61	9.81	21.95	41.37	66.00	24.63	QP
3	0.59	9.60	9.82	13.15	32.57	46.00	13.43	Average
4	0.59	9.60	9.82	23.15	42.57	56.00	13.43	QP
5	1.09	9.64	9.83	10.53	30.00	46.00	16.00	Average
6	1.09	9.64	9.83	21.53	41.00	56.00	15.00	QP



Site no : 844 Shield Room Data no. : 207  
 Env. / Ins. : Temp:25.3'C Humi:58% Press:101.50kPa LINE Phase : NEUTRAL  
 Limit : FCC PART 15B QP  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 5V From adapter Input AC 120V/60Hz  
 M/N : 6360A  
 Test Mode : TX Mode

	Freq. (MHz)	LISN Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.20	9.60	9.80	17.05	36.45	53.49	17.04	Average
2	0.20	9.60	9.80	29.05	48.45	63.49	15.04	QP
3	0.48	9.59	9.81	12.14	31.54	46.41	14.87	Average
4	0.48	9.59	9.81	22.14	41.54	56.41	14.87	QP
5	7.89	9.67	9.87	8.65	28.19	50.00	21.81	Average
6	7.89	9.67	9.87	19.65	39.19	60.00	20.81	QP

## 4 RADIATED EMISSION TEST

### 4.1 Limit

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.

#### 15.205 Restricted frequency band

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> )

#### 15.209 Limit

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  $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$

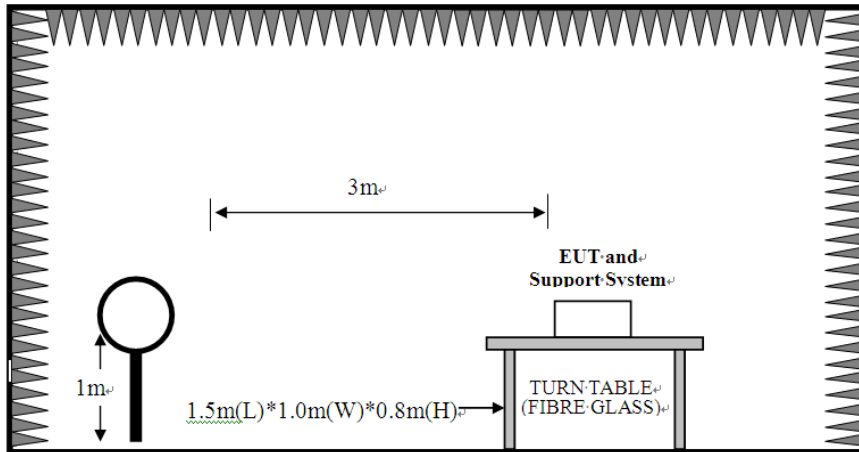
(2) The smaller limit shall apply at the cross point between two frequency bands.

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

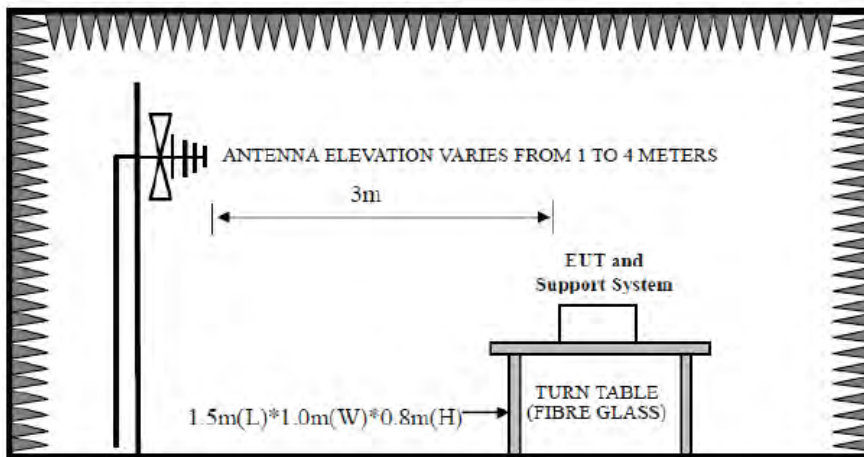


### 4.2. Block Diagram of Test setup

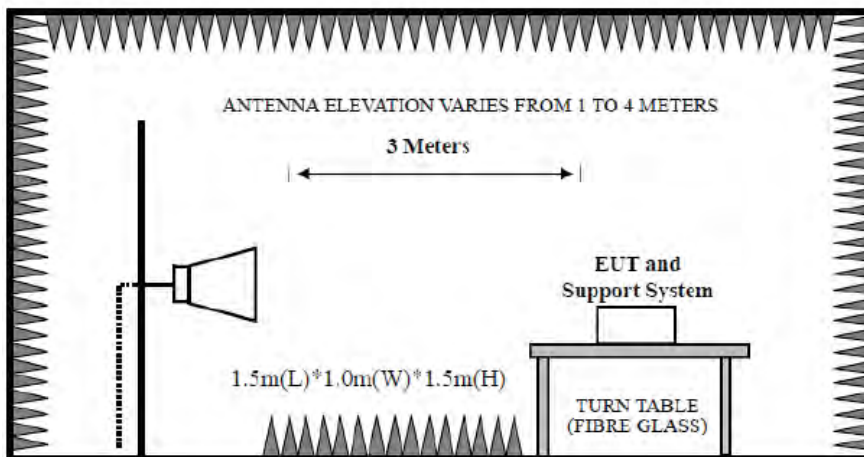
9kHz~30MHz



30~1000MHz



Above 1GHz



### 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 working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on an 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.**

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 、 2437MHz 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.

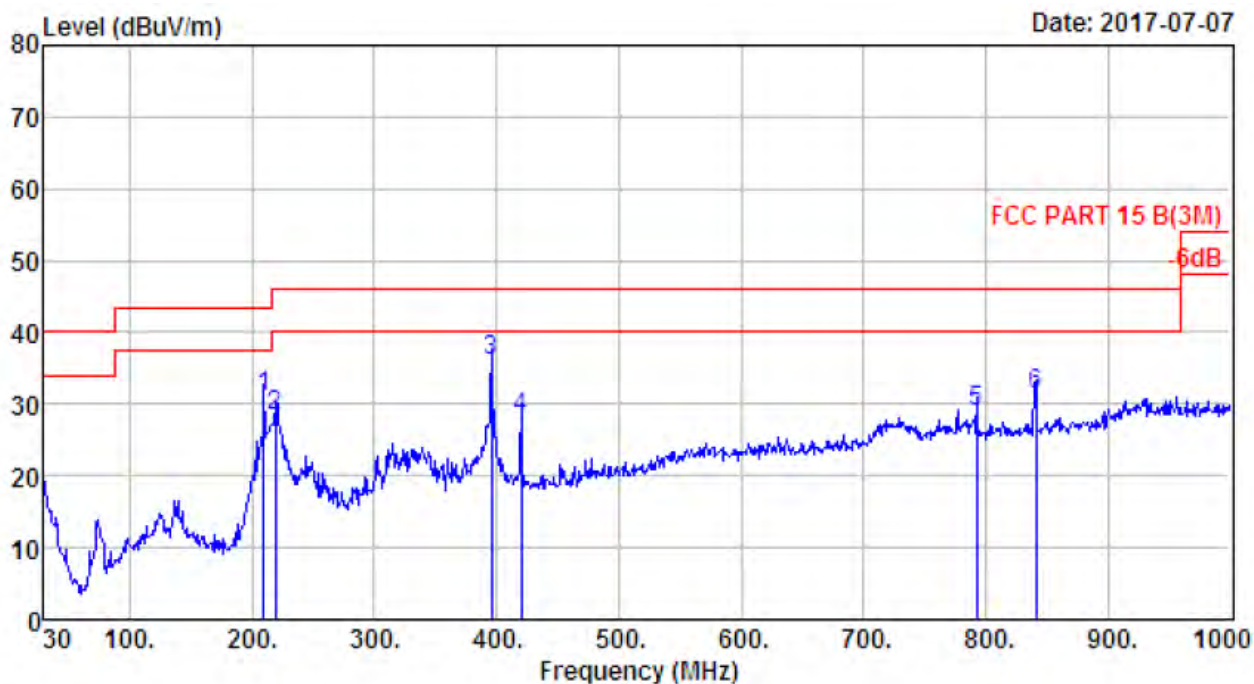
#### 4.5. Test Data

9 kHz – 30 MHz

Pass

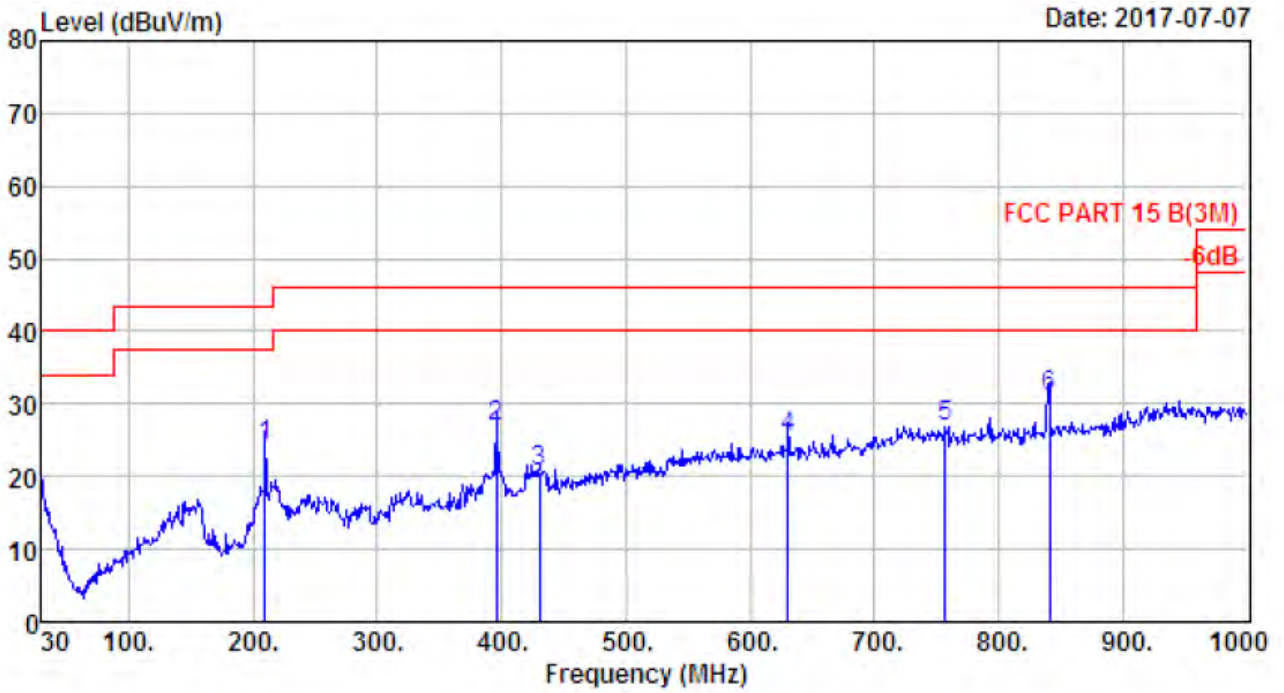
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

30-1000 MHz



Site no. : 1# 966 Chamber                      Data no. : 152  
 Dis. / Ant. : 3m 27137                          Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.6';Humi:50%;Press:101.52kPa  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Remark
1	209.45	8.37	1.91	20.60	30.88	43.50	12.62	QP
2	219.15	9.10	1.94	17.22	28.26	46.00	17.74	QP
3	395.69	15.87	2.59	17.47	35.93	46.00	10.07	QP
4	419.94	16.30	2.71	8.99	28.00	46.00	18.00	QP
5	792.42	22.04	3.86	2.95	28.85	46.00	17.15	QP
6	840.92	22.64	3.74	4.84	31.22	46.00	14.78	QP



Site no. : 1# 966 Chamber Data no. : 153  
 Dis. / Ant. : 3m 27137 Ant. pol. : VERTICAL  
 Limit : FCC PART 15 B(3M)  
 Env. / Ins. : Temp:27.6';Humi:50%;Press:101.52kPa  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IX Mode

	Freq. (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	209.45	8.37	1.91	13.89	24.17	43.50	19.33	QP
2	395.69	15.87	2.59	8.44	26.90	46.00	19.10	QP
3	430.61	16.08	2.81	1.90	20.79	46.00	25.21	QP
4	630.43	20.17	3.48	1.87	25.52	46.00	20.48	QP
5	757.50	22.07	3.85	0.91	26.83	46.00	19.17	QP
6	840.92	22.64	3.74	4.61	30.99	46.00	15.01	QP



1000-18000 MHz

Site no. : 1# 966 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11b CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	85.59	85.19	74.00	-11.19	Peak
2	4824.00	31.28	11.84	35.66	38.03	45.49	74.00	28.51	Peak
3	7236.00	36.53	11.55	33.99	29.61	43.70	74.00	30.30	Peak
4	8684.00	37.32	11.45	33.66	30.00	45.11	74.00	28.89	Peak
5	11421.00	39.24	10.98	33.57	27.97	44.62	74.00	29.38	Peak
6	14005.00	41.46	10.90	33.01	28.41	47.76	74.00	26.24	Peak

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

Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11b CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	81.56	81.16	74.00	-7.16	Peak
2	4824.00	31.28	11.84	35.66	43.51	50.97	74.00	23.03	Peak
3	7236.00	36.53	11.55	33.99	28.96	43.05	74.00	30.95	Peak
4	10316.00	38.65	11.41	34.51	28.74	44.29	74.00	29.71	Peak
5	10996.00	39.52	11.29	34.11	28.97	45.67	74.00	28.33	Peak
6	14481.00	41.86	10.93	33.49	28.90	48.20	74.00	25.80	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. : 1# 966 Chamber 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11b CH6 2437TX

	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	2437.00	27.60	6.67	34.85	86.31	85.73	74.00	-11.73	Peak
2	4874.00	31.37	12.07	35.76	41.90	49.58	74.00	24.42	Peak
3	7311.00	36.55	11.57	34.12	29.95	43.95	74.00	30.05	Peak
4	8650.00	37.27	11.45	33.68	29.99	45.03	74.00	28.97	Peak
5	11370.00	39.28	11.02	33.51	27.18	43.97	74.00	30.03	Peak
6	14396.00	41.79	10.92	33.39	27.42	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.

Site no. : 1# 966 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11b CH6 2437TX

	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	2437.00	27.60	6.67	34.85	82.44	81.86	74.00	-7.86	Peak
2	4874.00	31.37	12.07	35.76	35.14	42.82	74.00	31.18	Peak
3	7311.00	36.55	11.57	34.12	29.42	43.42	74.00	30.58	Peak
4	8735.00	37.40	11.45	33.76	29.79	44.88	74.00	29.12	Peak
5	11285.00	39.33	11.08	33.32	27.85	44.94	74.00	29.06	Peak
6	14056.00	41.51	10.90	33.06	28.16	47.51	74.00	26.49	Peak

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



Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 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	82.47	81.76	74.00	-7.76	Peak
2	4924.00	31.45	12.29	35.91	33.11	40.94	74.00	33.06	Peak
3	7386.00	36.57	11.59	34.23	32.05	45.98	74.00	28.02	Peak
4	10180.00	38.42	11.49	34.53	29.25	44.63	74.00	29.37	Peak
5	10945.00	39.46	11.29	34.13	28.85	45.47	74.00	28.53	Peak
6	14124.00	41.57	10.91	33.22	26.84	46.10	74.00	27.90	Peak

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

Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 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	88.16	87.45	74.00	-13.45	Peak
2	4924.00	31.45	12.29	35.91	37.34	45.17	74.00	28.83	Peak
3	7386.00	36.57	11.59	34.23	32.02	45.95	74.00	28.05	Peak
4	8650.00	37.27	11.45	33.68	30.74	45.78	74.00	28.22	Peak
5	11166.00	39.41	11.17	33.31	29.05	46.32	74.00	27.68	Peak
6	14226.00	41.66	10.91	33.41	28.26	47.42	74.00	26.58	Peak

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



Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	80.79	80.39	74.00	-6.39	Peak
2	4824.00	31.28	11.84	35.66	32.55	40.01	74.00	33.99	Peak
3	7236.00	36.53	11.55	33.99	29.95	44.04	74.00	29.96	Peak
4	8684.00	37.32	11.45	33.66	31.04	46.15	74.00	27.85	Peak
5	11166.00	39.41	11.17	33.31	29.21	46.48	74.00	27.52	Peak
6	14005.00	41.46	10.90	33.01	30.85	50.20	74.00	23.80	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. : 1# 966 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	82.91	82.51	74.00	-8.51	Peak
2	4824.00	31.28	11.84	35.66	32.55	40.01	74.00	33.99	Peak
3	7236.00	36.53	11.55	33.99	30.71	44.80	74.00	29.20	Peak
4	8684.00	37.32	11.45	33.66	30.61	45.72	74.00	28.28	Peak
5	11200.00	39.39	11.14	33.24	28.09	45.38	74.00	28.62	Peak
6	14056.00	41.51	10.90	33.06	28.54	47.89	74.00	26.11	Peak

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

Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11g CH6 2437TX

	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	2437.00	27.60	6.67	34.85	80.20	79.62	74.00	-5.62	Peak
2	4874.00	31.37	12.07	35.76	34.52	42.20	74.00	31.80	Peak
3	7311.00	36.55	11.57	34.12	31.56	45.56	74.00	28.44	Peak
4	8684.00	37.32	11.45	33.66	31.36	46.47	74.00	27.53	Peak
5	11234.00	39.37	11.12	33.25	28.43	45.67	74.00	28.33	Peak
6	13376.00	39.78	11.48	32.91	29.33	47.68	74.00	26.32	Peak

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

Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11g CH6 2437TX

	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	2437.00	27.60	6.67	34.85	81.80	81.22	74.00	-7.22	Peak
2	4874.00	31.37	12.07	35.76	32.87	40.55	74.00	33.45	Peak
3	7311.00	36.55	11.57	34.12	30.65	44.65	74.00	29.35	Peak
4	9126.00	37.62	11.52	34.09	30.74	45.79	74.00	28.21	Peak
5	11404.00	39.25	10.99	33.57	29.30	45.97	74.00	28.03	Peak
6	14226.00	41.66	10.91	33.41	28.15	47.31	74.00	26.69	Peak

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



Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11g 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	83.96	83.25	74.00	-9.25	Peak
2	4924.00	31.45	12.29	35.91	33.25	41.08	74.00	32.92	Peak
3	7386.00	36.57	11.59	34.23	29.30	43.23	74.00	30.77	Peak
4	10690.00	39.18	11.30	34.22	28.33	44.59	74.00	29.41	Peak
5	13495.00	40.07	11.50	32.65	26.47	45.39	74.00	28.61	Peak
6	14056.00	41.51	10.90	33.06	27.21	46.56	74.00	27.44	Peak

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

Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11g 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	80.26	79.55	74.00	-5.55	Peak
2	4924.00	31.45	12.29	35.91	33.32	41.15	74.00	32.85	Peak
3	7386.00	36.57	11.59	34.23	32.58	46.51	74.00	27.49	Peak
4	8684.00	37.32	11.45	33.66	30.05	45.16	74.00	28.84	Peak
5	11234.00	39.37	11.12	33.25	27.48	44.72	74.00	29.28	Peak
6	14005.00	41.46	10.90	33.01	27.26	46.61	74.00	27.39	Peak

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

Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	80.11	79.71	74.00	-5.71	Peak
2	4824.00	31.28	11.84	35.66	31.75	39.21	74.00	34.79	Peak
3	7236.00	36.53	11.55	33.99	27.87	41.96	74.00	32.04	Peak
4	8650.00	37.27	11.45	33.68	28.61	43.65	74.00	30.35	Peak
5	11336.00	39.30	11.04	33.44	28.96	45.86	74.00	28.14	Peak
6	14396.00	41.79	10.92	33.39	27.50	46.82	74.00	27.18	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. : 1# 966 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	79.35	78.95	74.00	-4.95	Peak
2	4824.00	31.28	11.84	35.66	33.81	41.27	74.00	32.73	Peak
3	7236.00	36.53	11.55	33.99	28.99	43.08	74.00	30.92	Peak
4	9126.00	37.62	11.52	34.09	29.47	44.52	74.00	29.48	Peak
5	11234.00	39.37	11.12	33.25	29.11	46.35	74.00	27.65	Peak
6	14396.00	41.79	10.92	33.39	27.69	47.01	74.00	26.99	Peak

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



Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

	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	2437.00	27.60	6.67	34.85	82.67	82.09	74.00	-8.09	Peak
2	4874.00	31.37	12.07	35.76	35.42	43.10	74.00	30.90	Peak
3	7311.00	36.55	11.57	34.12	29.92	43.92	74.00	30.08	Peak
4	10316.00	38.65	11.41	34.51	30.40	45.95	74.00	28.05	Peak
5	13614.00	40.40	11.36	32.68	27.45	46.53	74.00	27.47	Peak
6	14243.00	41.67	10.91	33.42	27.98	47.14	74.00	26.86	Peak

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

Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11n HT20 CH6 2437TX

	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	2437.00	27.60	6.67	34.85	80.89	80.31	74.00	-6.31	Peak
2	4874.00	31.37	12.07	35.76	33.46	41.14	74.00	32.86	Peak
3	7311.00	36.55	11.57	34.12	30.48	44.48	74.00	29.52	Peak
4	8684.00	37.32	11.45	33.66	30.00	45.11	74.00	28.89	Peak
5	10316.00	38.65	11.41	34.51	28.43	43.98	74.00	30.02	Peak
6	13886.00	41.16	11.04	33.03	27.48	46.65	74.00	27.35	Peak

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

Site no. : 1# 966 Chamber Data no. : 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	80.84	80.13	74.00	-6.13	Peak
2	4924.00	31.45	12.29	35.91	32.84	40.67	74.00	33.33	Peak
3	7386.00	36.57	11.59	34.23	29.20	43.13	74.00	30.87	Peak
4	8480.00	36.91	11.45	34.18	31.66	45.84	74.00	28.16	Peak
5	11064.00	39.48	11.24	33.83	26.57	43.46	74.00	30.54	Peak
6	14124.00	41.57	10.91	33.22	27.62	46.88	74.00	27.12	Peak

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

Site no. : 1# 966 Chamber Data no. : 338  
 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	82.61	81.90	74.00	-7.90	Peak
2	4924.00	31.45	12.29	35.91	32.44	40.27	74.00	33.73	Peak
3	7386.00	36.57	11.59	34.23	30.16	44.09	74.00	29.91	Peak
4	8956.00	37.43	11.46	34.43	30.48	44.94	74.00	29.06	Peak
5	9636.00	37.96	11.68	35.09	29.01	43.56	74.00	30.44	Peak
6	14396.00	41.79	10.92	33.39	27.74	47.06	74.00	26.94	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.

**18000MHz – 25000MHz**

Pass

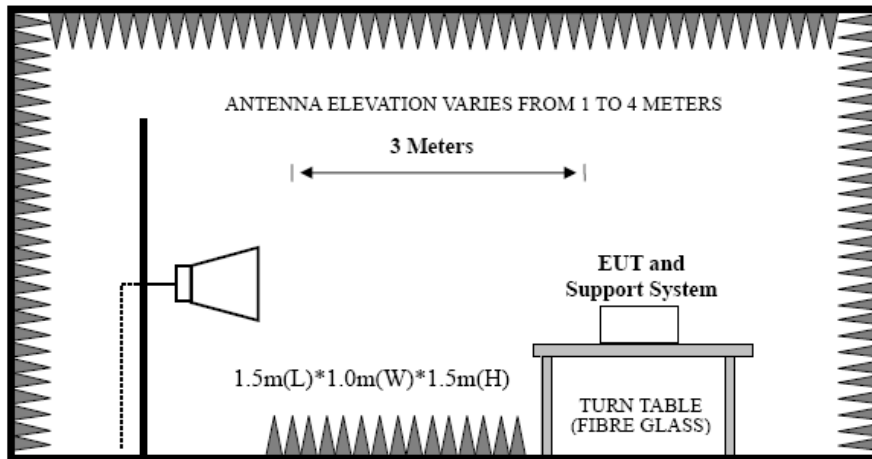
Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

## 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 Block Diagram of Test setup



### 5.3 Test Procedure

EUT was placed on a turn table, which is 1.5 m high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on an 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.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions

Peak : RBW = 1MHz, VBW = 1MHz, Detector=PEAK detector, Sweep time = auto.

AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

### 5.4 Test Result

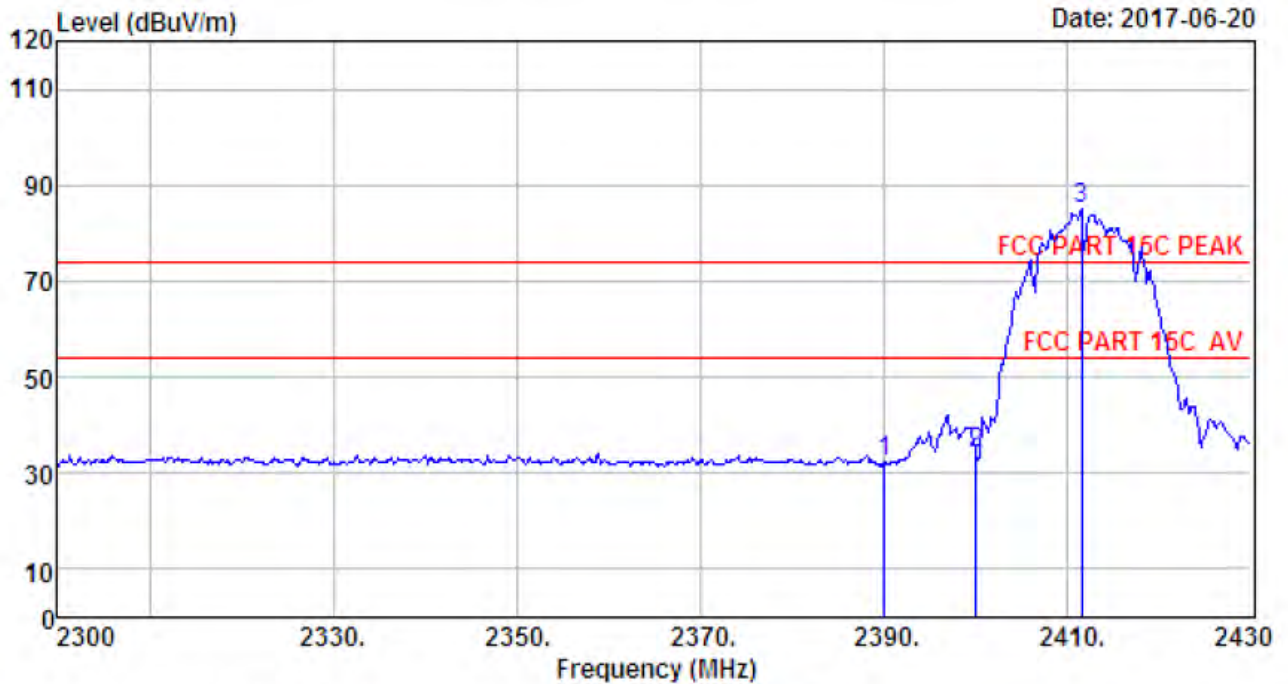
Pass (The testing data was attached in the next pages.)

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 2412 MHz 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.



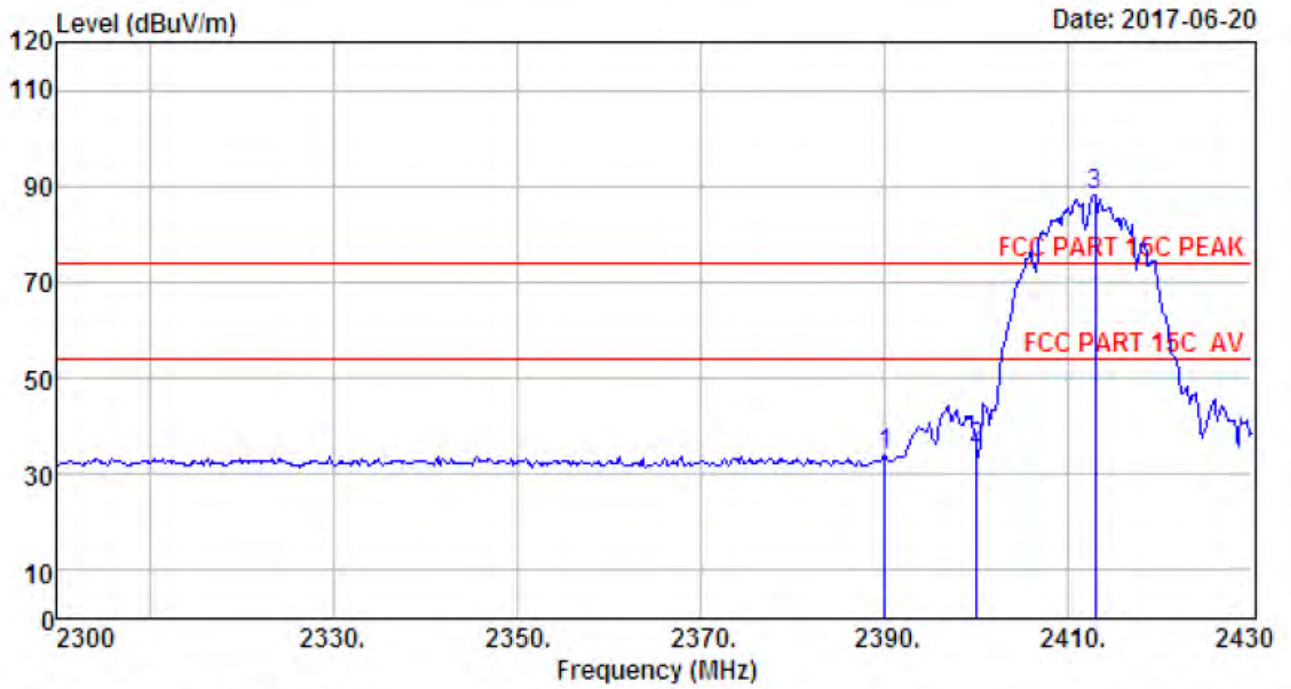
5.5 Test Data



Site no. : 1# 966 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 : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11b CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	32.71	32.35	74.00	41.65	Peak
2	2400.00	27.61	6.62	34.64	34.48	34.07	74.00	39.93	Peak
3	2411.54	27.60	6.64	34.64	85.53	85.13	74.00	-11.13	Peak

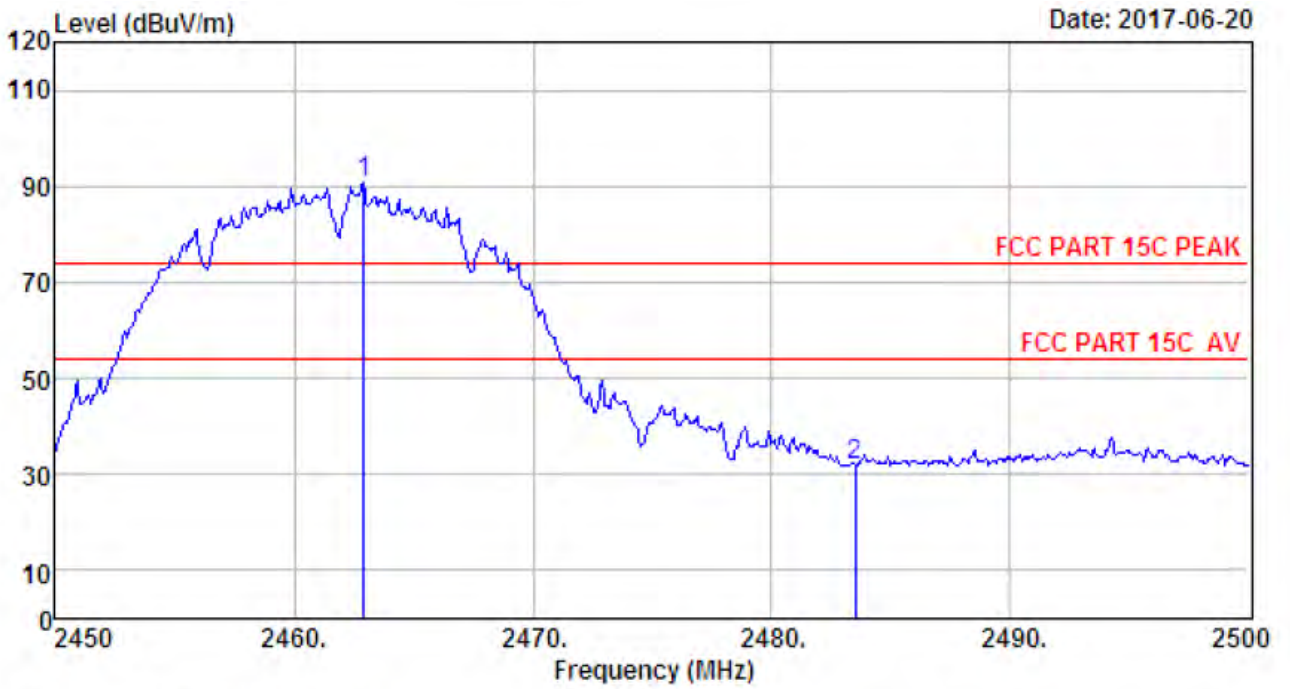
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 1# 966 Chamber Data no. : 340  
 Dis. / Ant. : 3m ANI 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11b CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	34.43	34.07	74.00	39.93	Peak
2	2400.00	27.61	6.62	34.64	35.95	35.54	74.00	38.46	Peak
3	2412.84	27.60	6.64	34.64	88.71	88.31	74.00	-14.31	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.

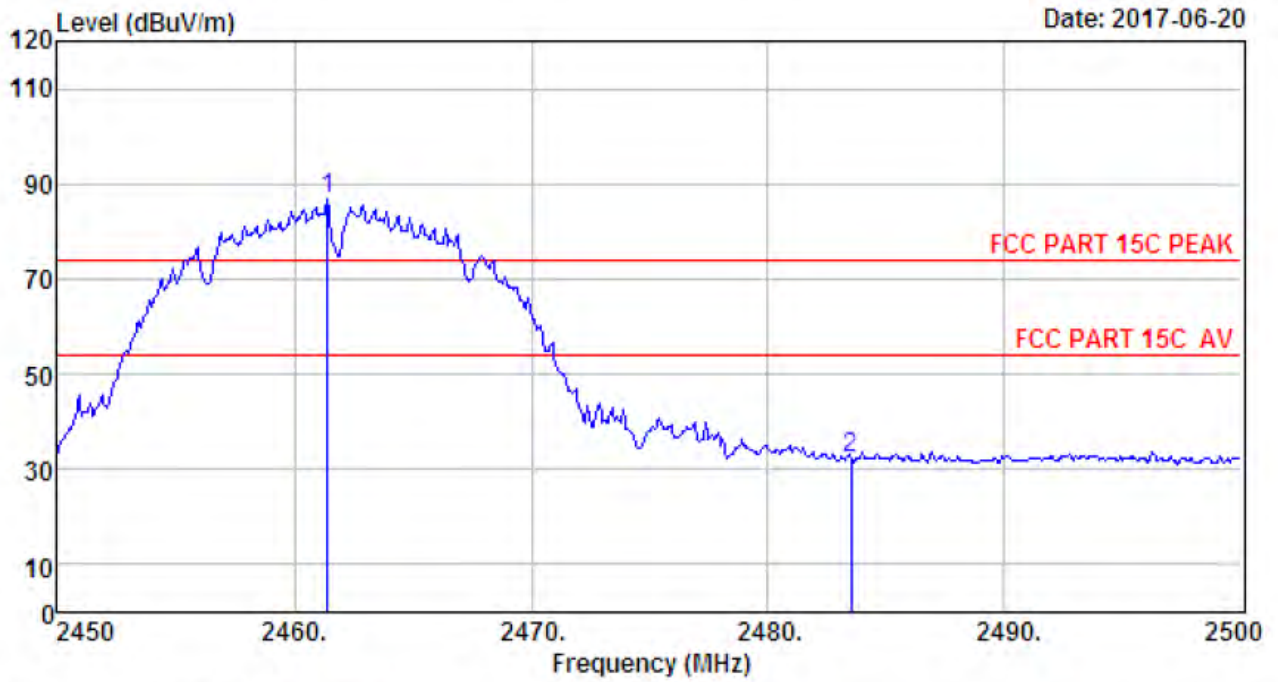


Site no. : 1# 966 Chamber Data no. : 341  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11b CH11 2462TX

	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	2462.90	27.58	6.69	34.98	91.55	90.84	74.00	-16.84	Peak
2	2483.50	27.58	6.71	35.11	32.80	31.98	74.00	42.02	Peak

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

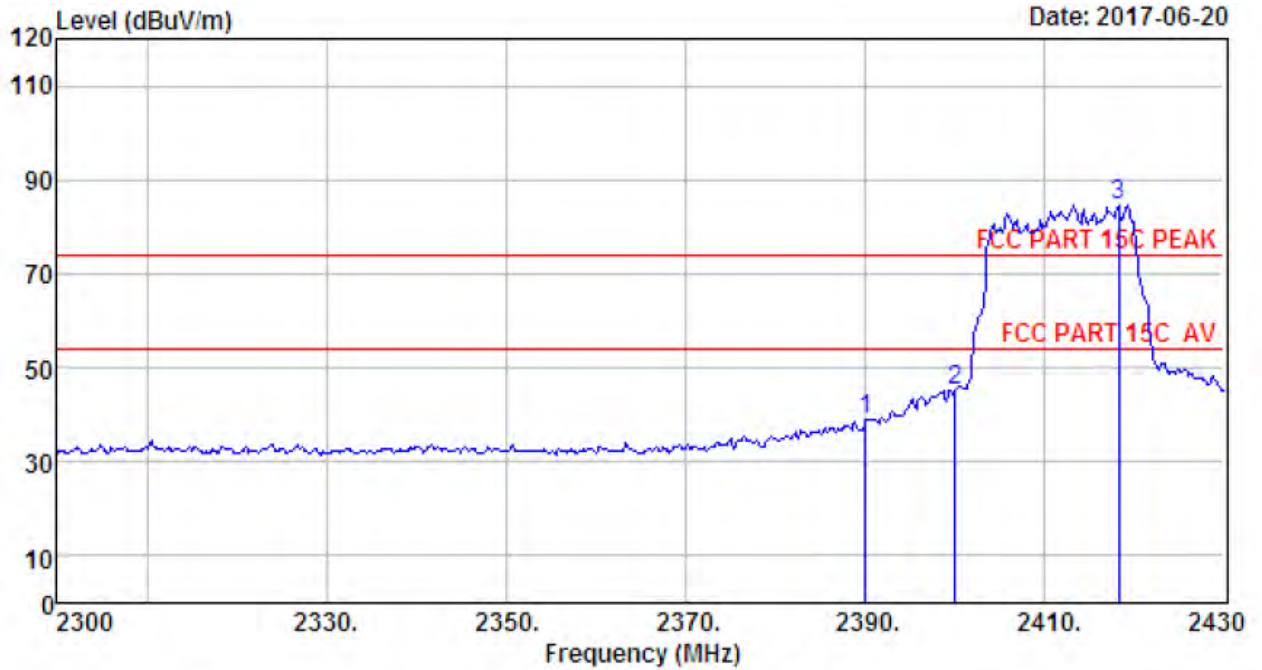




Site no. : 1# 966 Chamber                      Data no. : 342  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 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	2461.40	27.58	6.69	34.98	87.64	86.93	74.00	-12.93	Peak
2	2483.50	27.58	6.71	35.11	33.05	32.23	74.00	41.77	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.

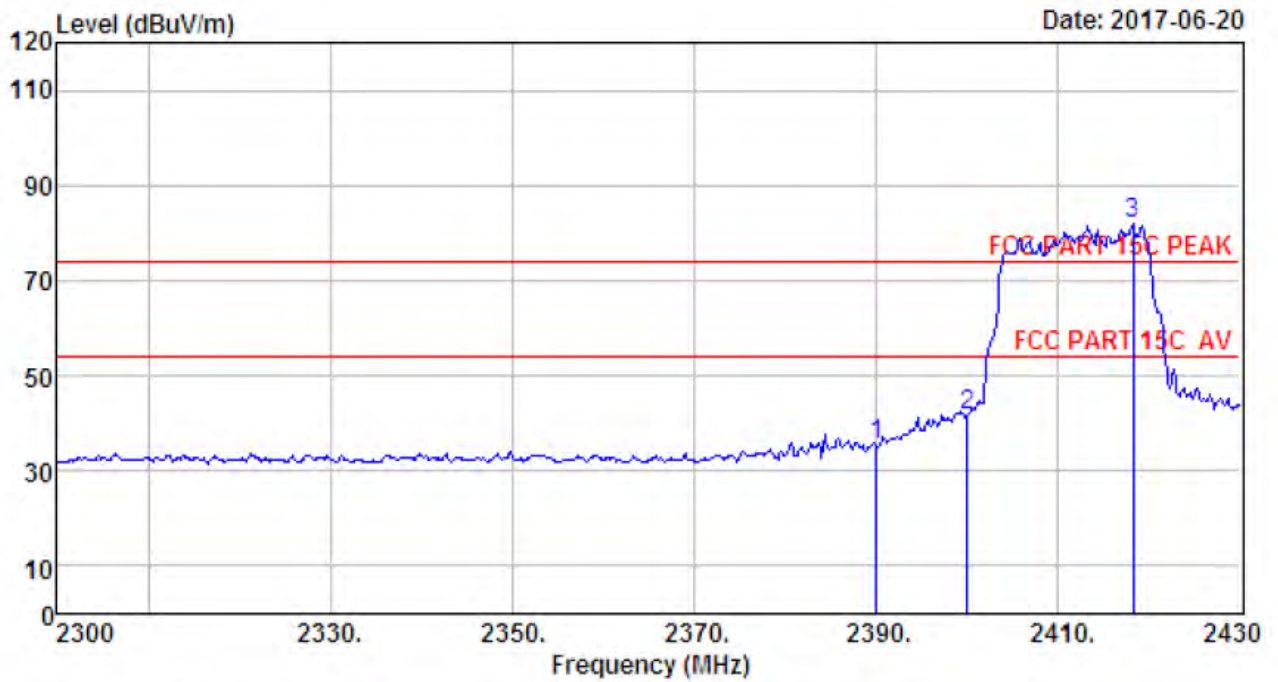


```

Site no.       : site                               Data no.  : 343
Dis. / Ant.   : 3m ANI 1-18G                       Ant. pol. : VERTICAL
Limit        : FCC PART 15C PEAK
Env. / Ins.   : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer     : Seven
EUT          : THEATER
Power        : DC 3.7V From Battery
M/N         : 6360A
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	2390.00	27.64	6.62	34.62	39.29	38.93	74.00	35.07	Peak
2	2400.00	27.61	6.62	34.64	45.70	45.29	74.00	28.71	Peak
3	2418.20	27.60	6.64	34.74	85.28	84.78	74.00	-10.78	Peak

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

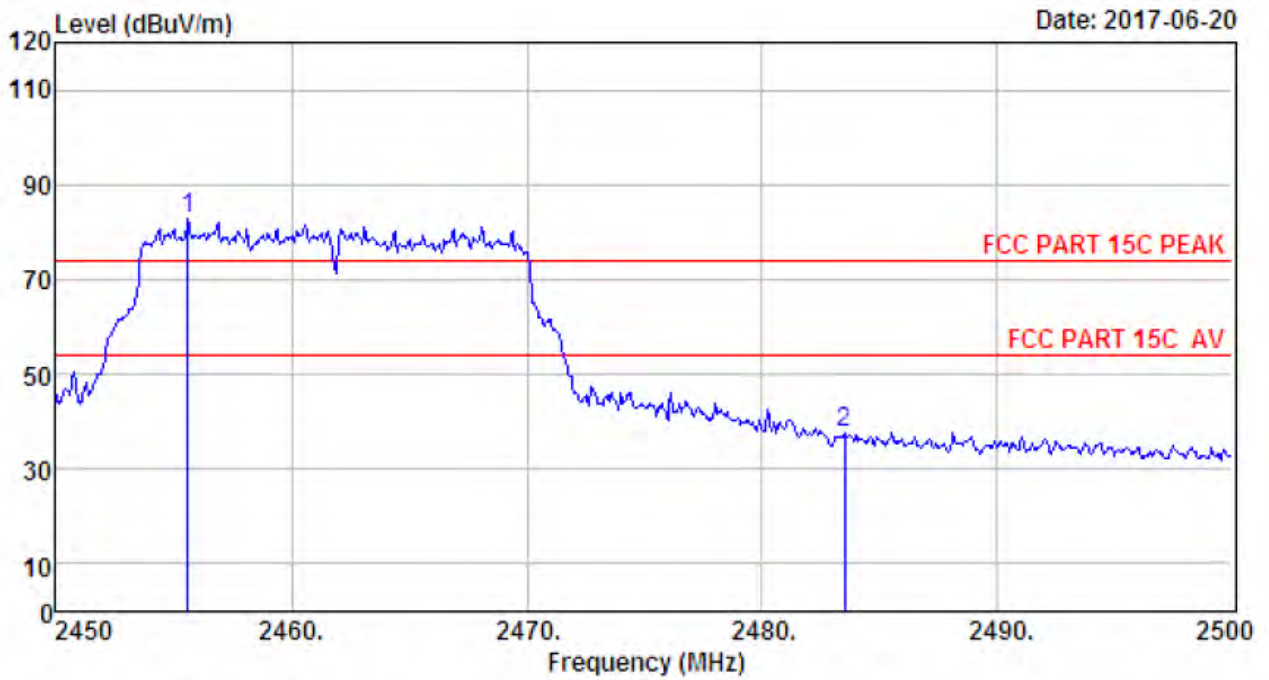


Site no. : 1# 966 Chamber                      Data no. : 344  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 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	2390.00	27.64	6.62	34.62	35.62	35.26	74.00	38.74	Peak
2	2400.00	27.61	6.62	34.64	42.15	41.74	74.00	32.26	Peak
3	2418.20	27.60	6.64	34.74	82.22	81.72	74.00	-7.72	Peak

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

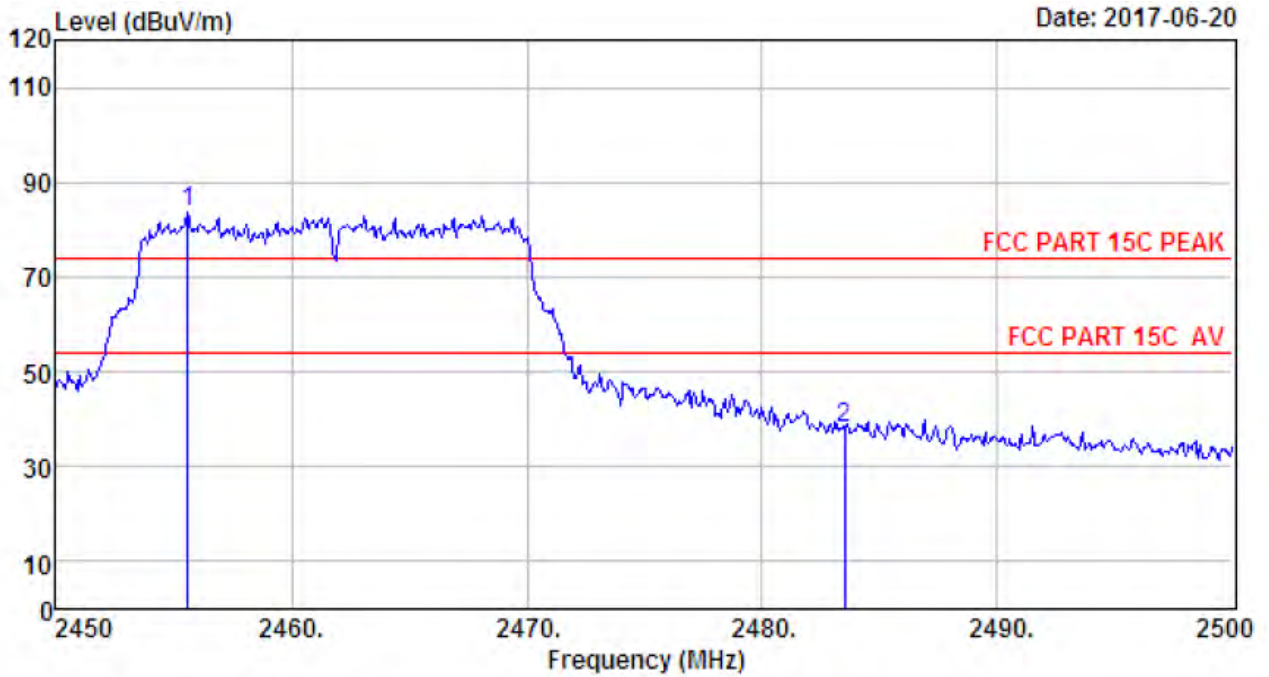




Site no. : 1# 966 Chamber Data no. : 345  
 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11g CH11 2462TX

	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	2455.60	27.59	6.69	34.98	83.41	82.71	74.00	-8.71	Peak
2	2483.50	27.58	6.71	35.11	38.32	37.50	74.00	36.50	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.

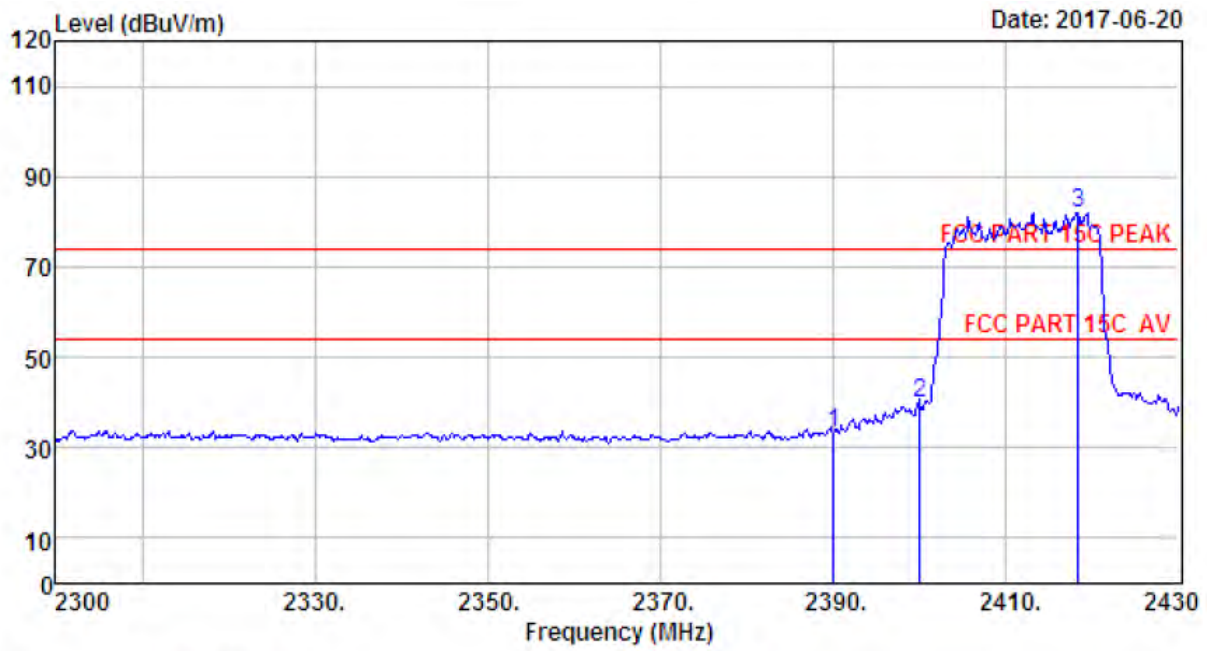


Site no. : 1# 966 Chamber                      Data no. : 346  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11g 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	2455.60	27.59	6.69	34.98	84.44	83.74	74.00	-9.74	Peak
2	2483.50	27.58	6.71	35.11	38.77	37.95	74.00	36.05	Peak

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

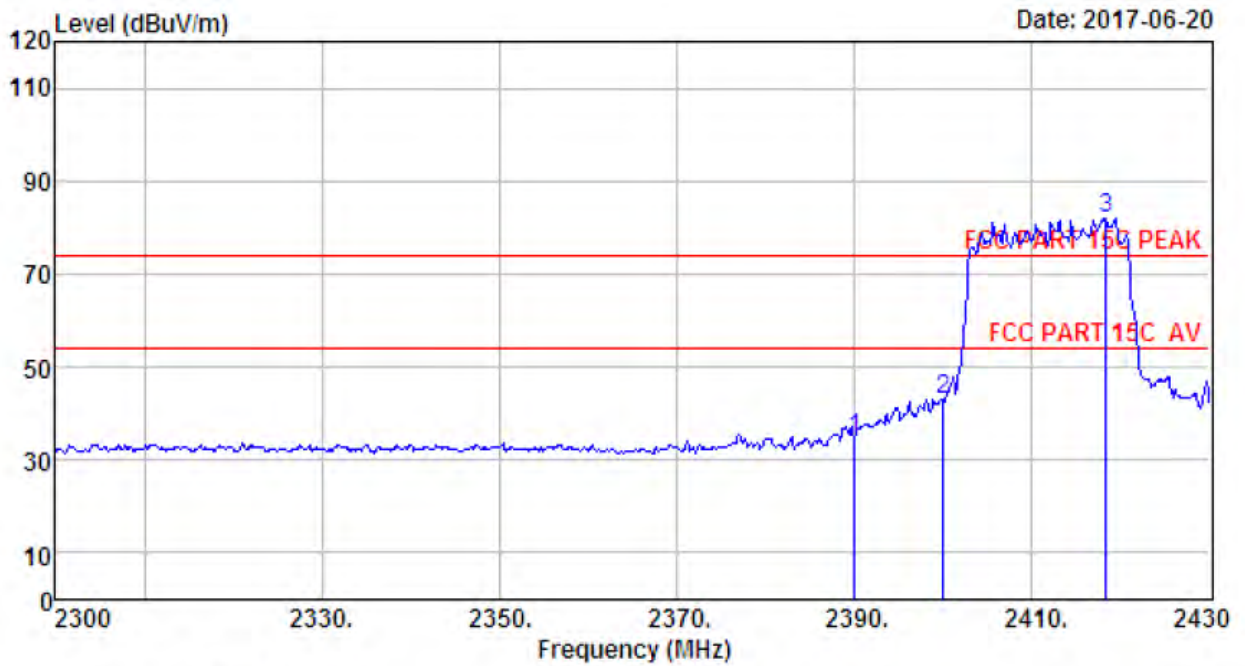




Site no. : 1# 966 Chamber Data no. : 347  
 Dis. / Ant. : 3m ANI 1-18G Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11n HT20 CH1 2412TX

	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	2390.00	27.64	6.62	34.62	33.76	33.40	74.00	40.60	Peak
2	2400.00	27.61	6.62	34.64	40.04	39.63	74.00	34.37	Peak
3	2418.30	27.60	6.64	34.74	82.59	82.09	74.00	-8.09	Peak

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

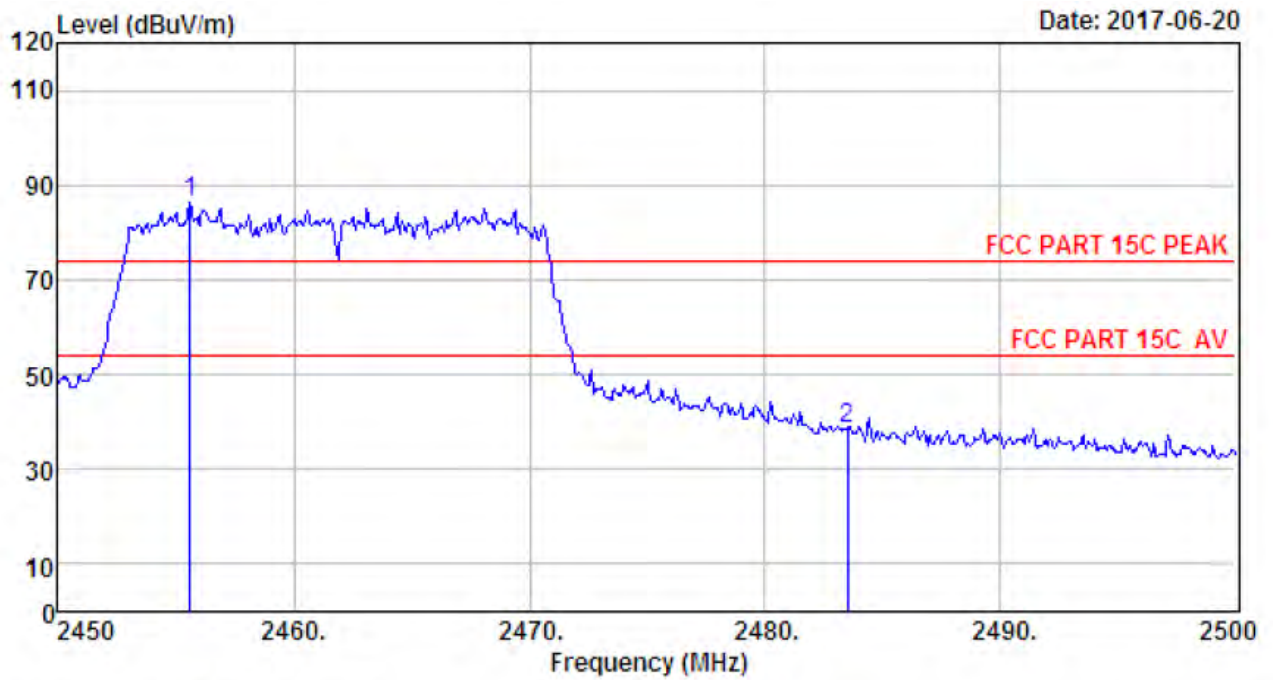


```

Site no.      : 1# 966 Chamber           Data no.   : 348
Dis. / Ant.   : 3m ANTI 1-18G          Ant. pol.  : VERTICAL
Limit        : FCC PART 15C PEAK
Env. / Ins.   : Temp:23.6';Humi:56%;Press:101.52kPa
Engineer     : Seven
EUT          : THEATER
Power        : DC 3.7V From Battery
M/N          : 6360A
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)	Limit (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	34.88	34.52	74.00	39.48	Peak
2	2400.00	27.61	6.62	34.64	43.30	42.89	74.00	31.11	Peak
3	2418.30	27.60	6.64	34.74	82.43	81.93	74.00	-7.93	Peak

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

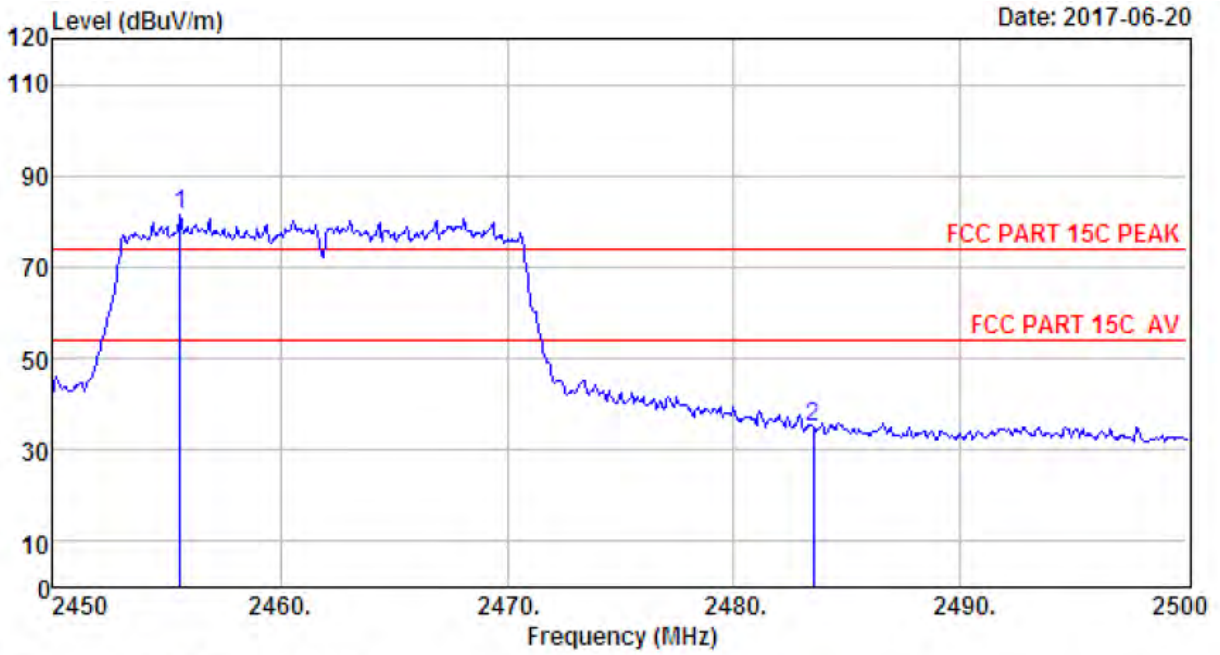


Site no. : 1# 966 Chamber                      Data no. : 349  
 Dis. / Ant. : 3m ANT 1-18G                      Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : Temp:23.6';Humi:56%;Press:101.52kPa  
 Engineer : Seven  
 EUT : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.60	27.59	6.69	34.98	87.02	86.32	74.00	-12.32	Peak
2	2483.50	27.58	6.71	35.11	39.55	38.73	74.00	35.27	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. : 1# 966 Chamber Data no. : 350  
 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 : Seven  
 EUI : THEATER  
 Power : DC 3.7V From Battery  
 M/N : 6360A  
 Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.60	27.59	6.69	34.98	82.19	81.49	74.00	-7.49	Peak
2	2483.50	27.58	6.71	35.11	35.71	34.89	74.00	39.11	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  $[(\text{reference value}) - xx]$ . 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.

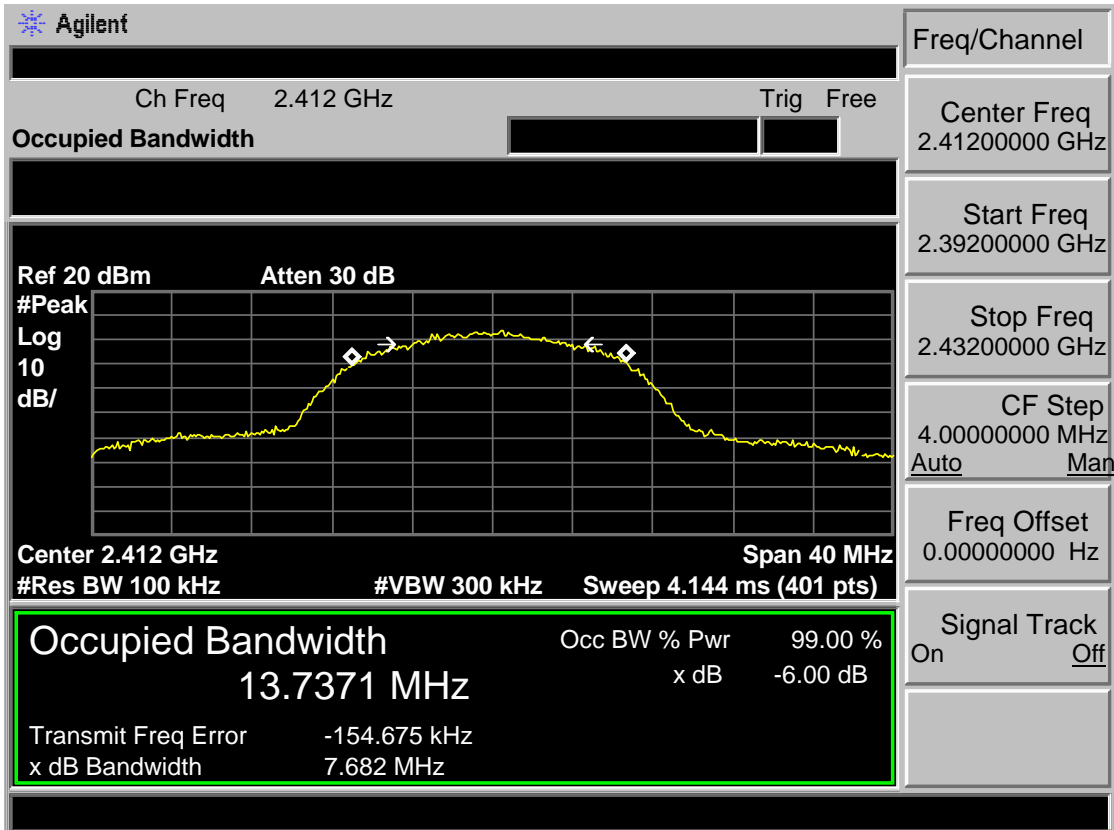
(11). The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

## 6.4 Test Result

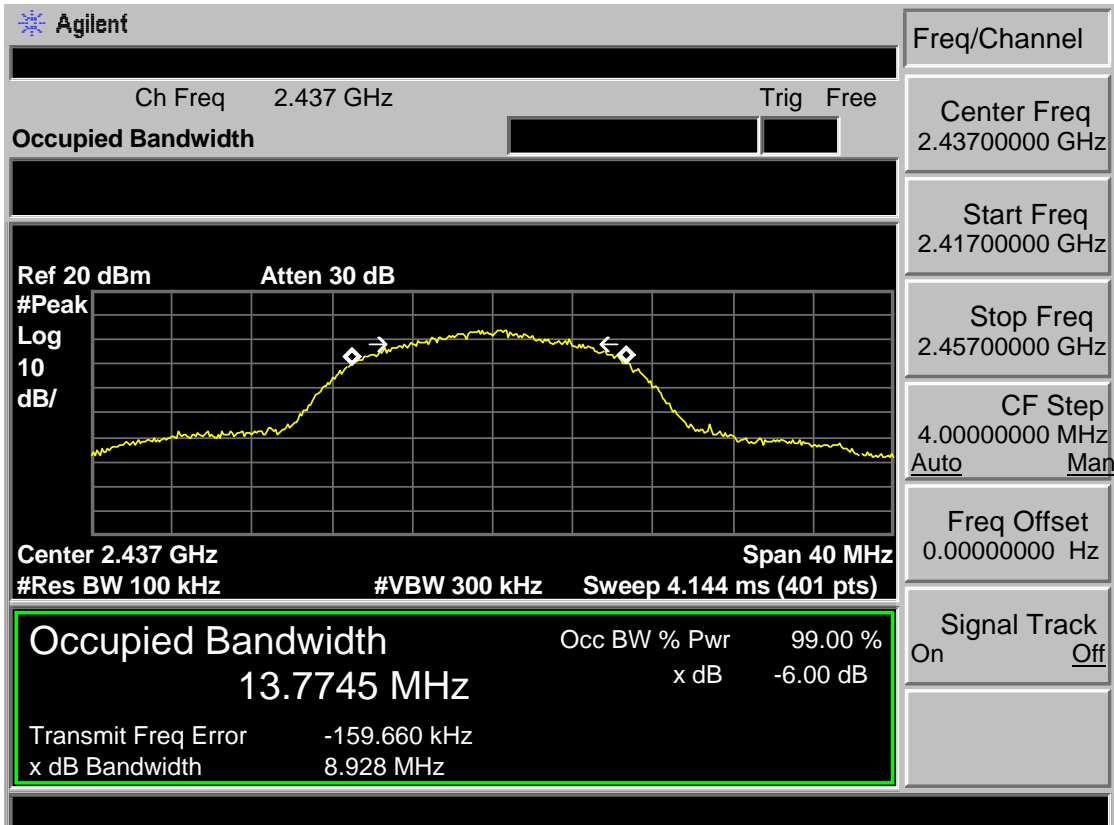
EUT: THEATER				
M/N: 6360A				
Test date: 2017-06-25		Test site: RF Site		Tested by:Seven
Test Mode	CH	6dB bandwidth ( MHz )	20dB bandwidth ( MHz )	Limit (KHz)
IEEE 802.11 b	CH1	7.682	15.942	>500
	CH6	8.928	15.790	>500
	CH11	8.401	15.989	>500
IEEE 802.11 g	CH1	16.431	19.246	>500
	CH6	16.379	18.935	>500
	CH11	16.363	19.160	>500
IEEE 802.11 n HT 20	CH1	17.672	19.514	>500
	CH6	17.756	19.448	>500
	CH11	17.746	19.559	>500
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

Agilent

Freq/Channel  
Center Freq 2.46200000 GHz  
Start Freq 2.44200000 GHz  
Stop Freq 2.48200000 GHz  
CF Step 4.00000000 MHz  
Auto Man  
Freq Offset 0.00000000 Hz  
Signal Track  
On Off

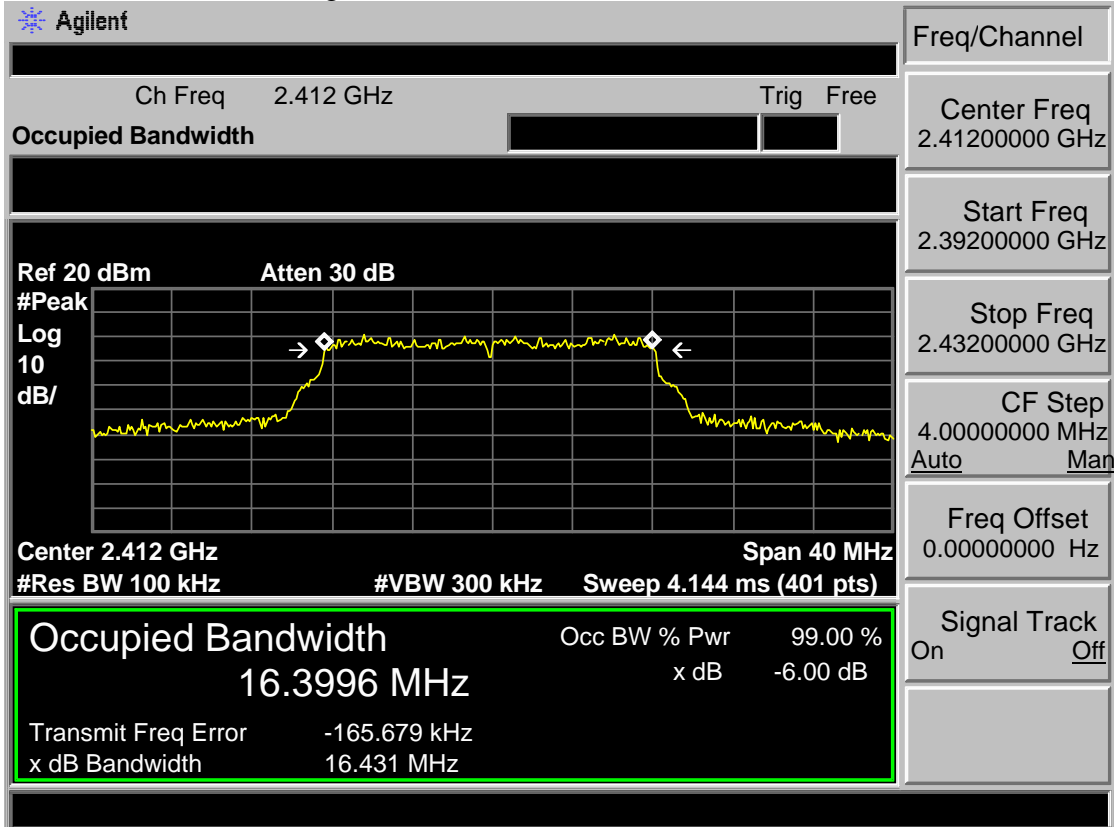
Ch Freq 2.462 GHz Trig Free  
Occupied Bandwidth

Ref 20 dBm      Atten 30 dB

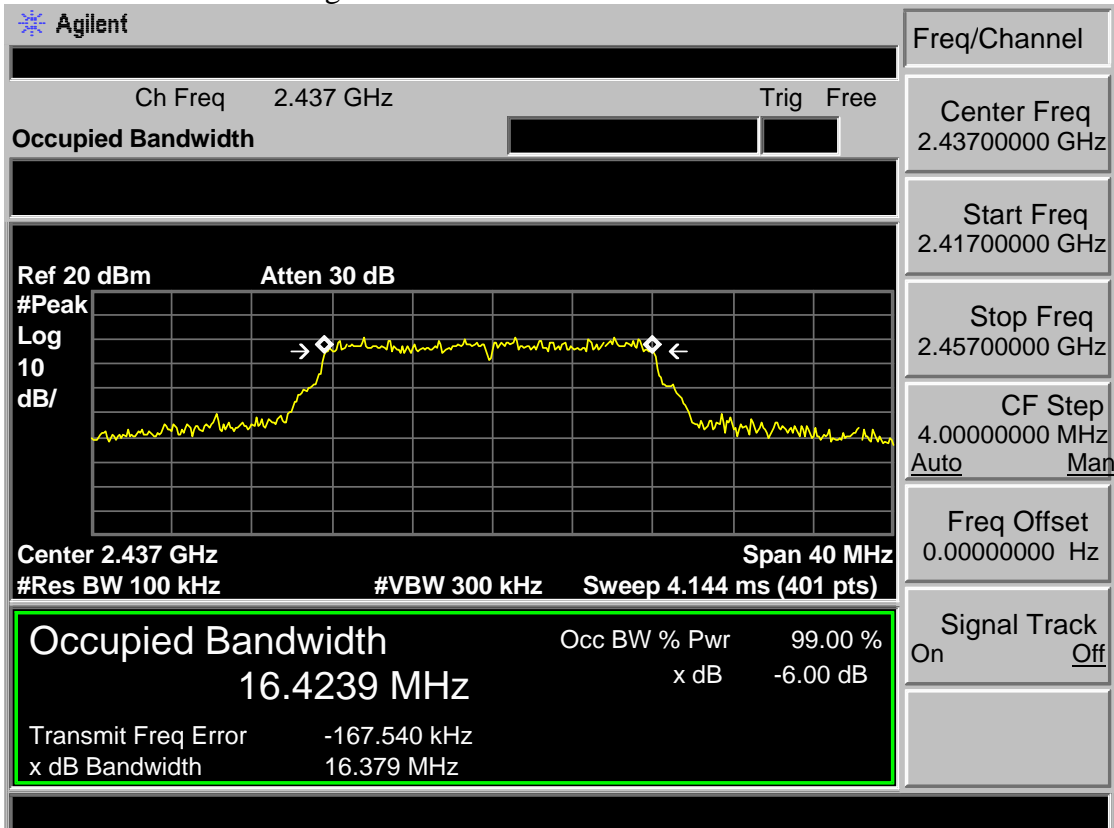
Center 2.462 GHz      Span 40 MHz  
 #Res BW 100 kHz      #VBW 300 kHz      Sweep 4.144 ms (401 pts)

Occupied Bandwidth	Occ BW % Pwr	99.00 %
13.7477 MHz	x dB	-6.00 dB
Transmit Freq Error	-140.468 kHz	
x dB Bandwidth	8.401 MHz	

Test Mode: IEEE 802.11g 2412MHz



Test Mode: IEEE 802.11g 2437MHz



Test Mode: IEEE 802.11g 2462MHz

**Agilent**

Ch Freq 2.462 GHz Trig Free

**Occupied Bandwidth**

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 100 kHz #VBW 300 kHz Sweep 4.144 ms (401 pts)

<b>Occupied Bandwidth</b>		Occ BW % Pwr	99.00 %
16.3908 MHz		x dB	-6.00 dB
Transmit Freq Error	-169.998 kHz		
x dB Bandwidth	16.363 MHz		

Freq/Channel

Center Freq  
2.46200000 GHz

Start Freq  
2.44200000 GHz

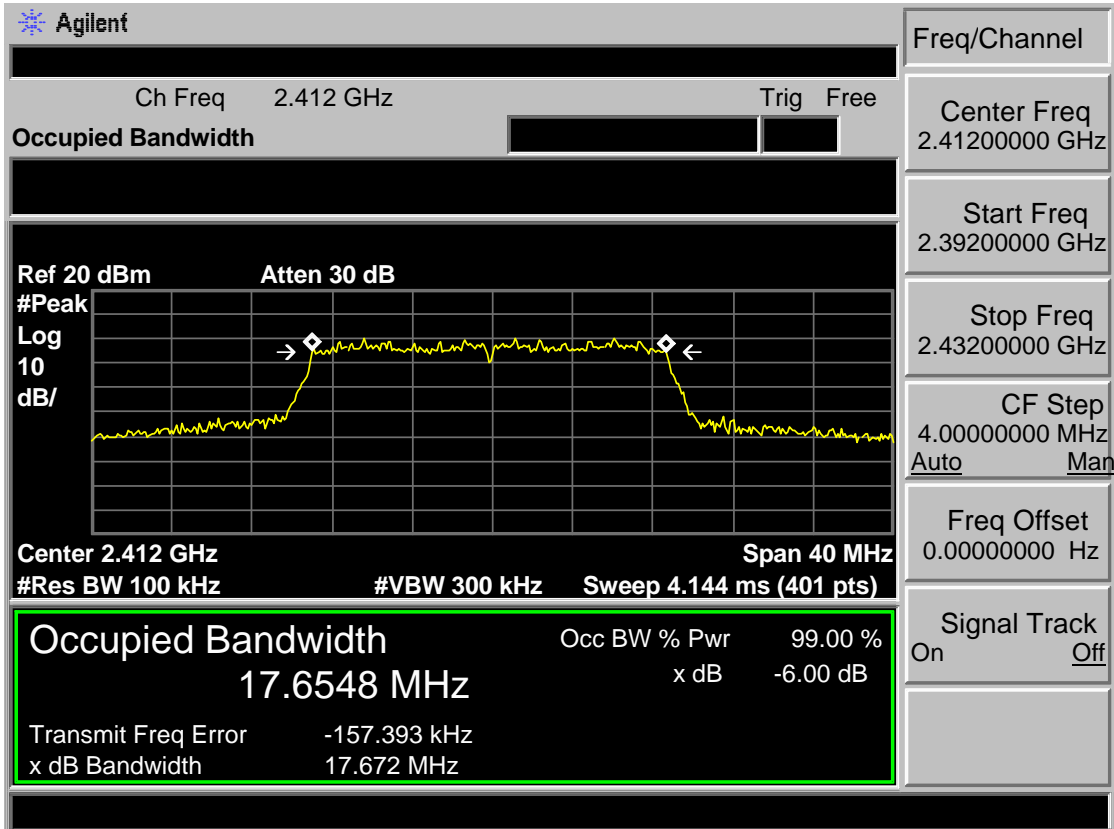
Stop Freq  
2.48200000 GHz

CF Step  
4.00000000 MHz  
Auto Man

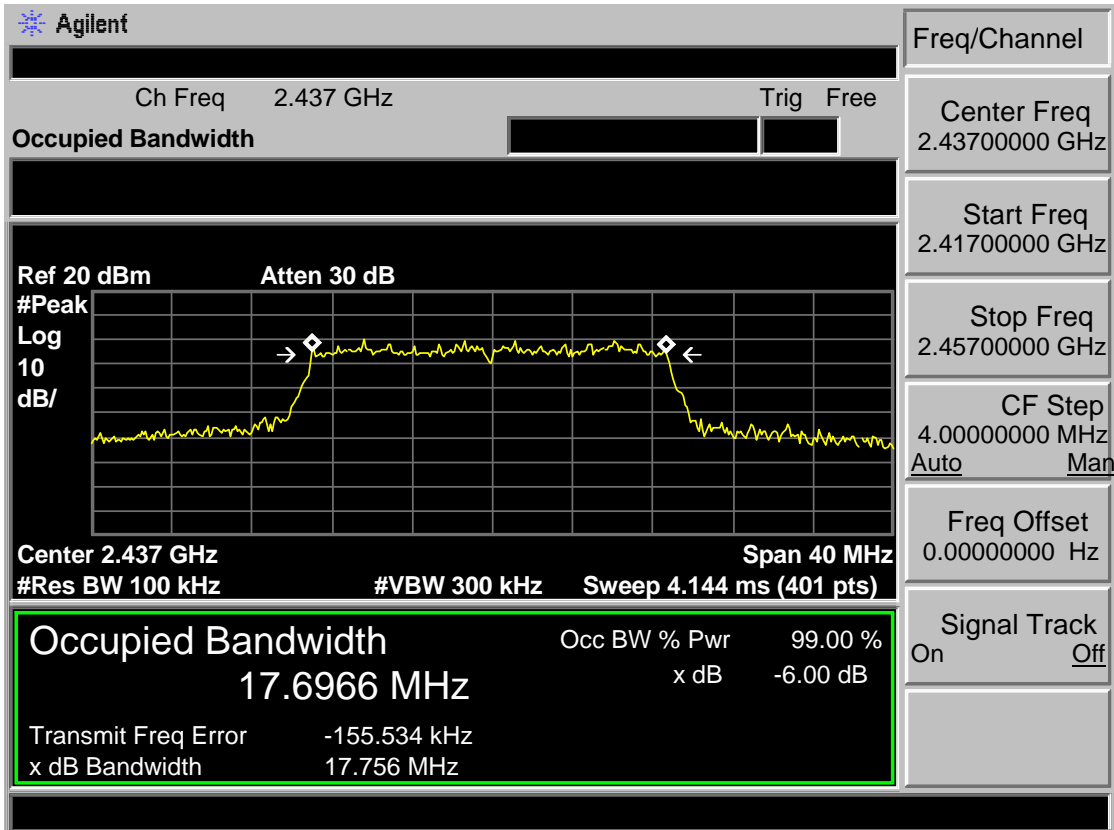
Freq Offset  
0.00000000 Hz

Signal Track  
On Off

Test Mode: IEEE 802.11n HT20 2412MHz

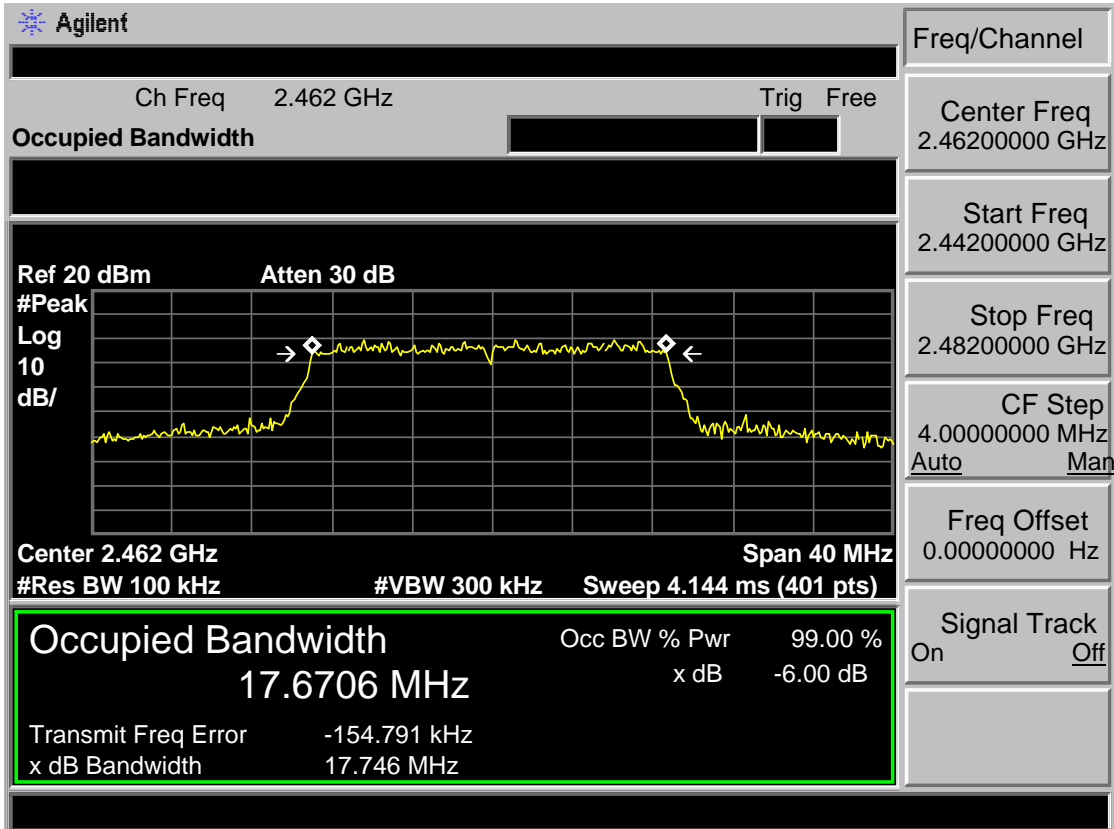


Test Mode: IEEE 802.11n HT20 2437MHz



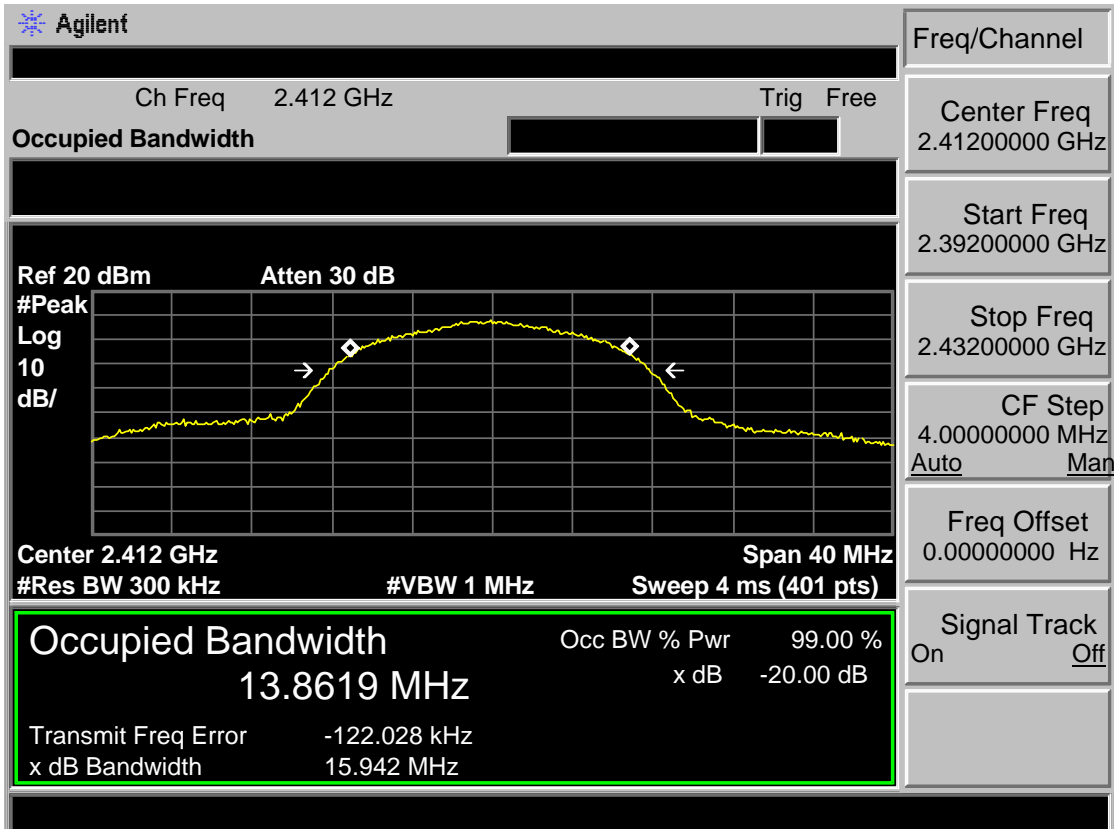


Test Mode: IEEE 802.11n HT20 2462MHz

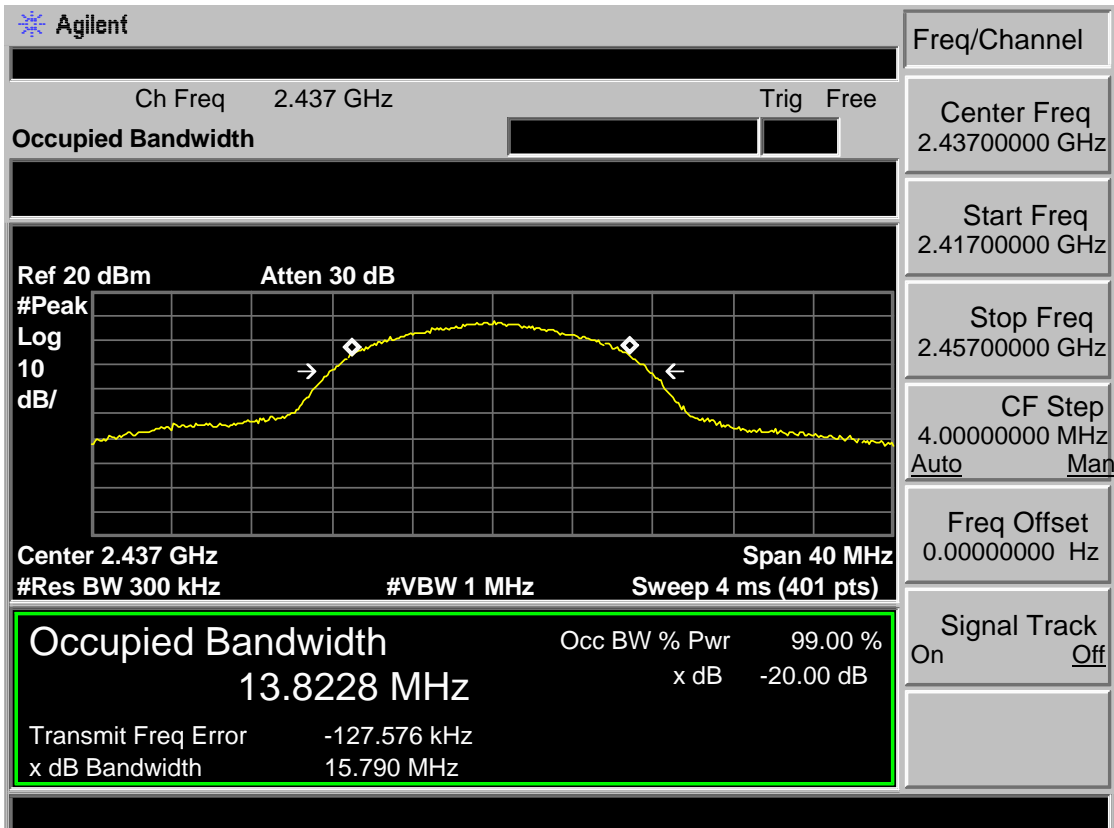


### 6.6 20dB Test Data

Test Mode: IEEE 802.11b 2412MHz



Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz

**Agilent**

Ch Freq 2.462 GHz Trig Free

Occupied Bandwidth

Ref 20 dBm Atten 30 dB

#Peak  
Log  
10  
dB/

Center 2.462 GHz Span 40 MHz  
#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

<b>Occupied Bandwidth</b>		Occ BW % Pwr	99.00 %
13.8287 MHz		x dB	-20.00 dB
Transmit Freq Error	-116.331 kHz		
x dB Bandwidth	15.989 MHz		

Freq/Channel

Center Freq  
2.46200000 GHz

Start Freq  
2.44200000 GHz

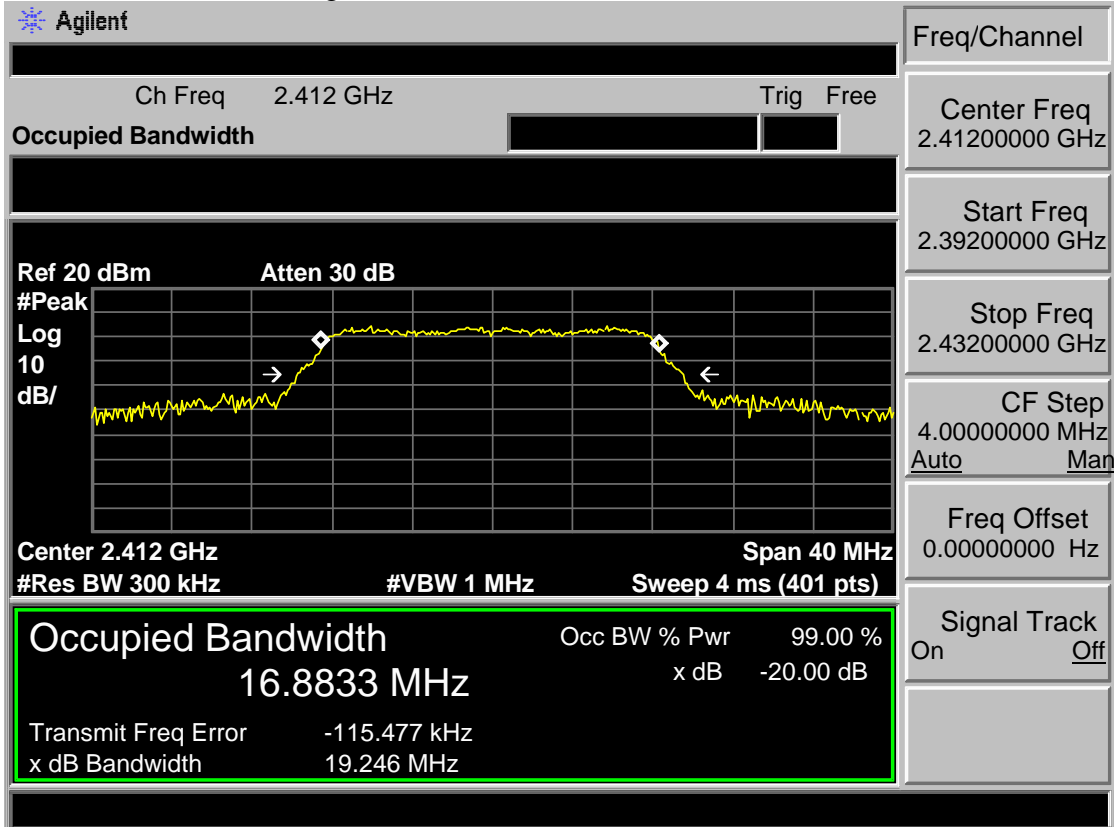
Stop Freq  
2.48200000 GHz

CF Step  
4.00000000 MHz  
Auto Man

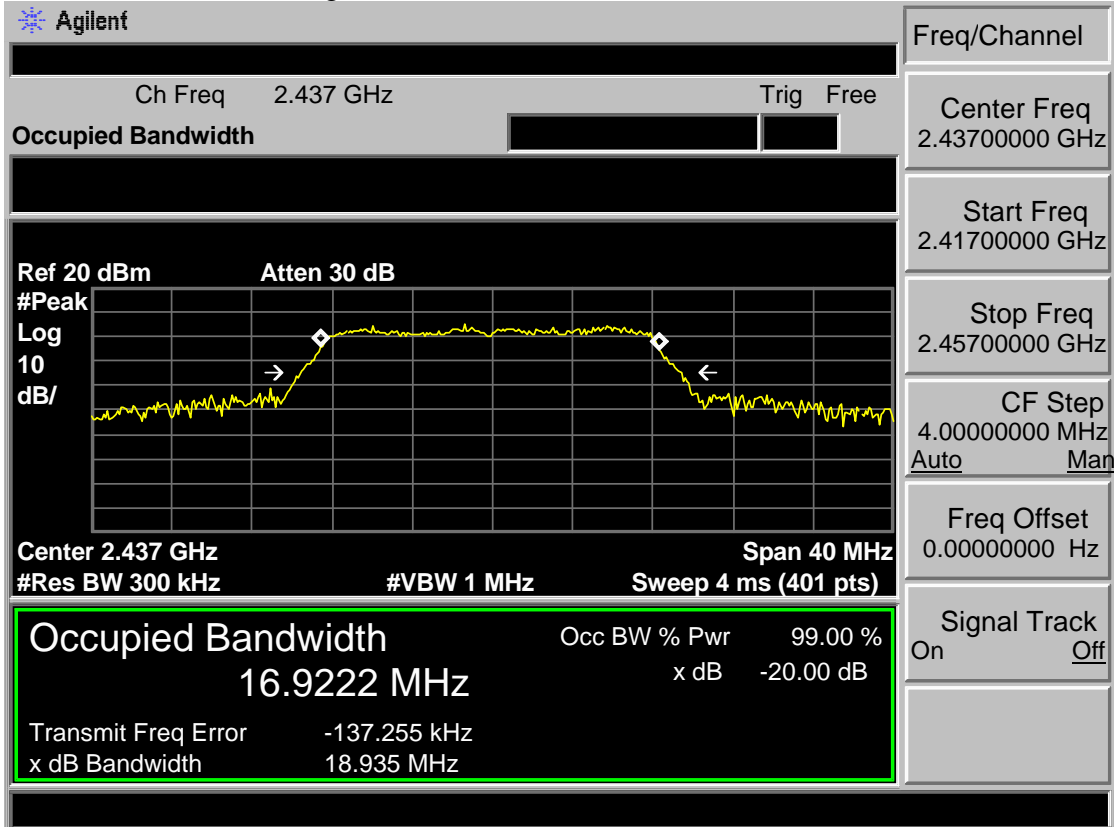
Freq Offset  
0.00000000 Hz

Signal Track  
On Off

Test Mode: IEEE 802.11g 2412MHz



Test Mode: IEEE 802.11g 2437MHz





Test Mode: IEEE 802.11g 2462MHz

**Agilent**

Ch Freq 2.462 GHz Trig Free

**Occupied Bandwidth**

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 40 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 4 ms (401 pts)

<b>Occupied Bandwidth</b>	Occ BW % Pwr	99.00 %
<b>16.9325 MHz</b>	x dB	-20.00 dB
Transmit Freq Error	-84.559 kHz	
x dB Bandwidth	19.160 MHz	

Freq/Channel

Center Freq  
2.46200000 GHz

Start Freq  
2.44200000 GHz

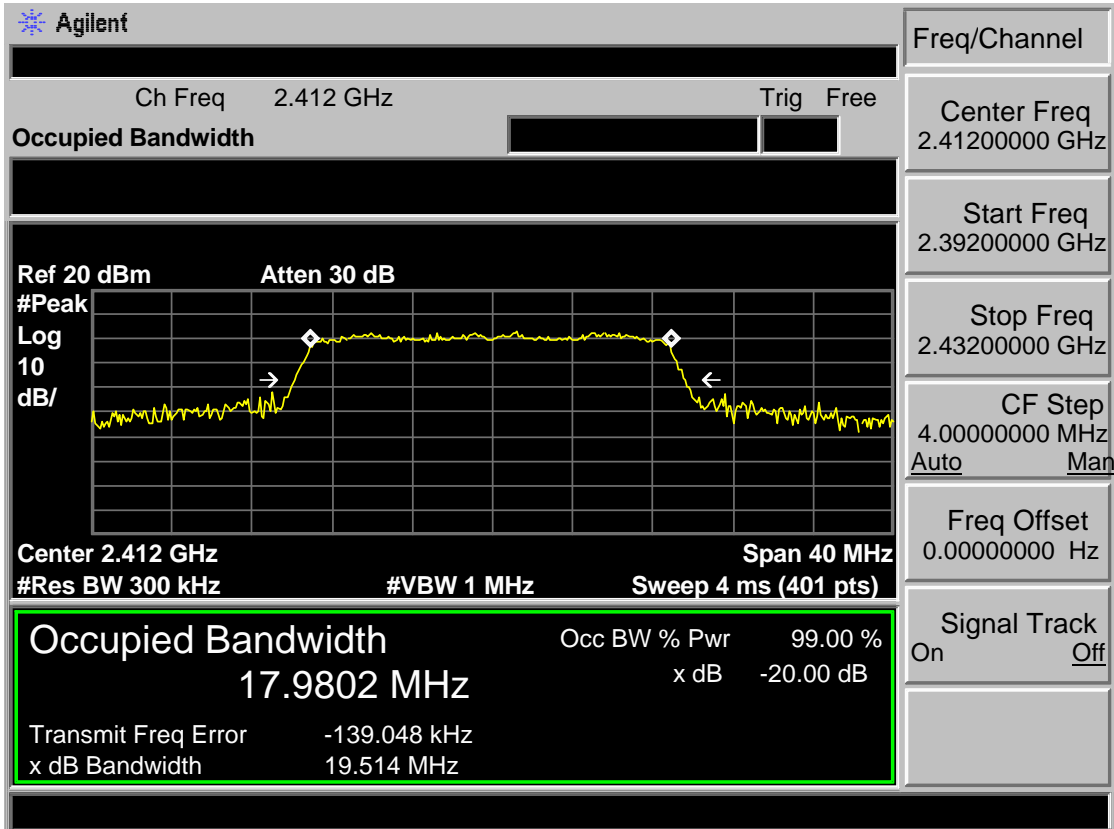
Stop Freq  
2.48200000 GHz

CF Step  
4.00000000 MHz  
Auto Man

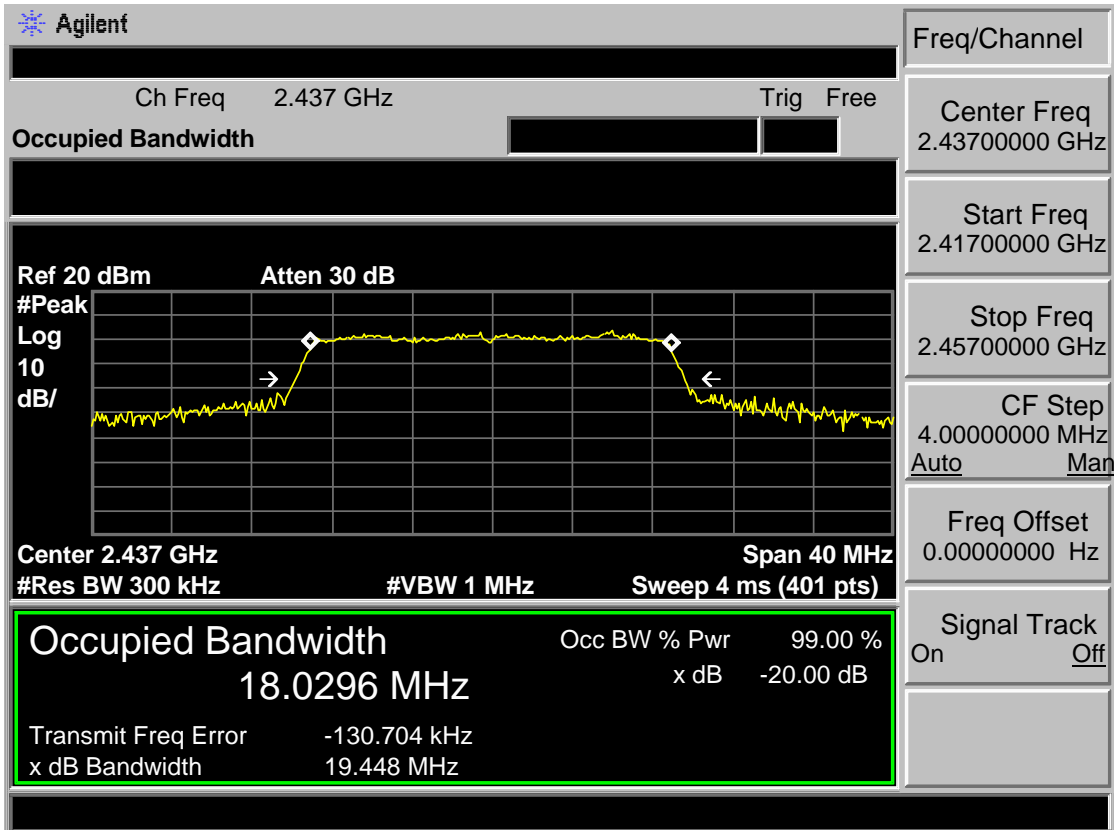
Freq Offset  
0.00000000 Hz

Signal Track  
On Off

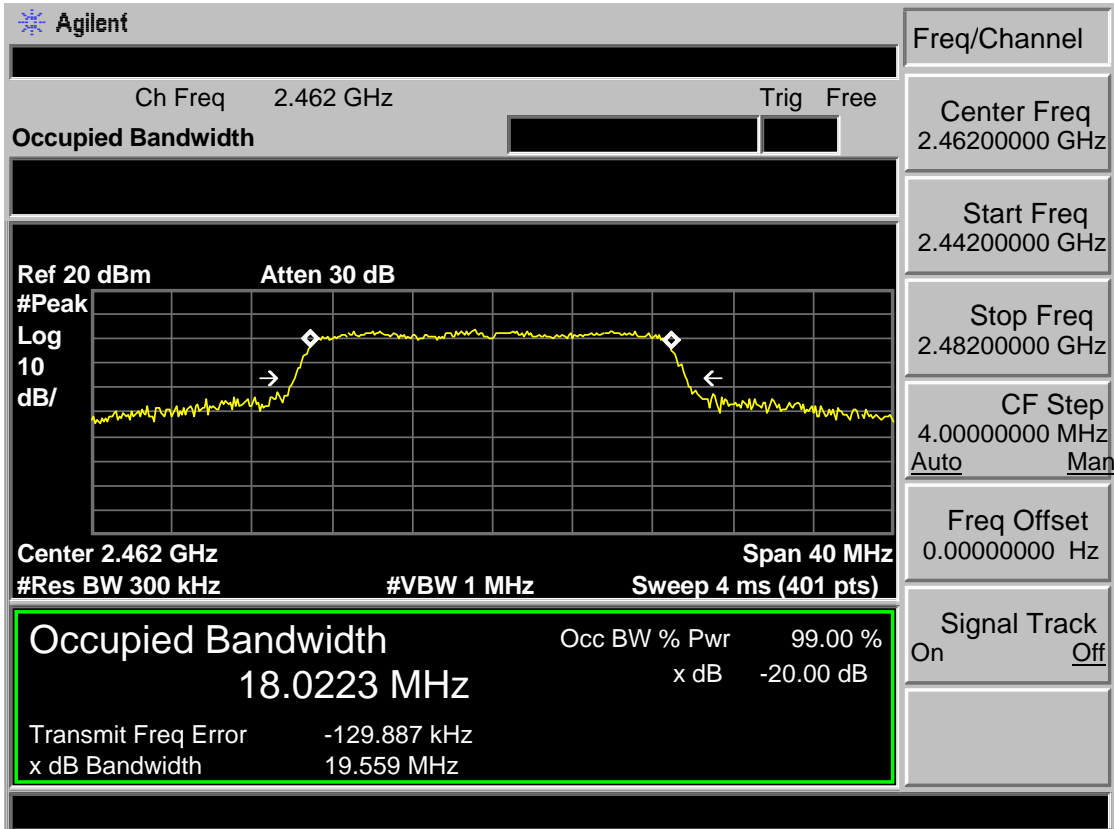
Test Mode: IEEE 802.11n HT20 2412MHz



Test Mode: IEEE 802.11n HT20 2437MHz



Test Mode: IEEE 802.11n HT20 2462MHz



## 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

- 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  $\geq 3 \times$  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.

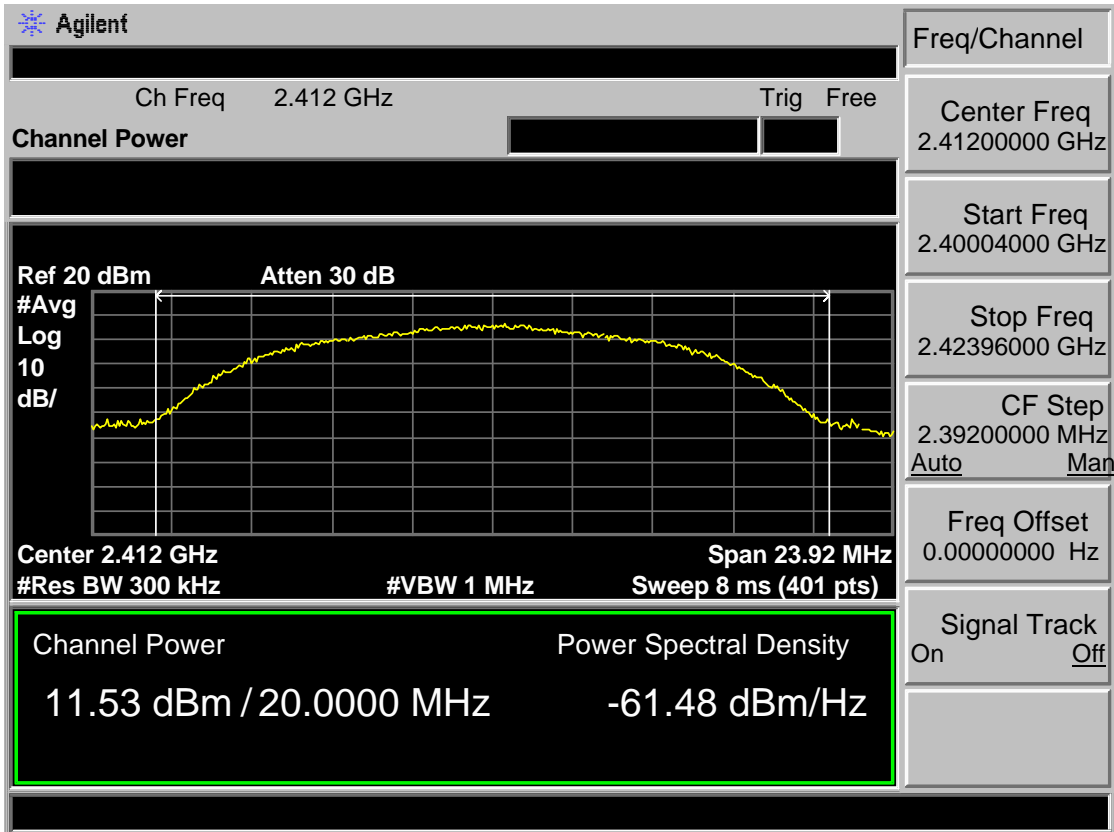


### 7.3 Test Result

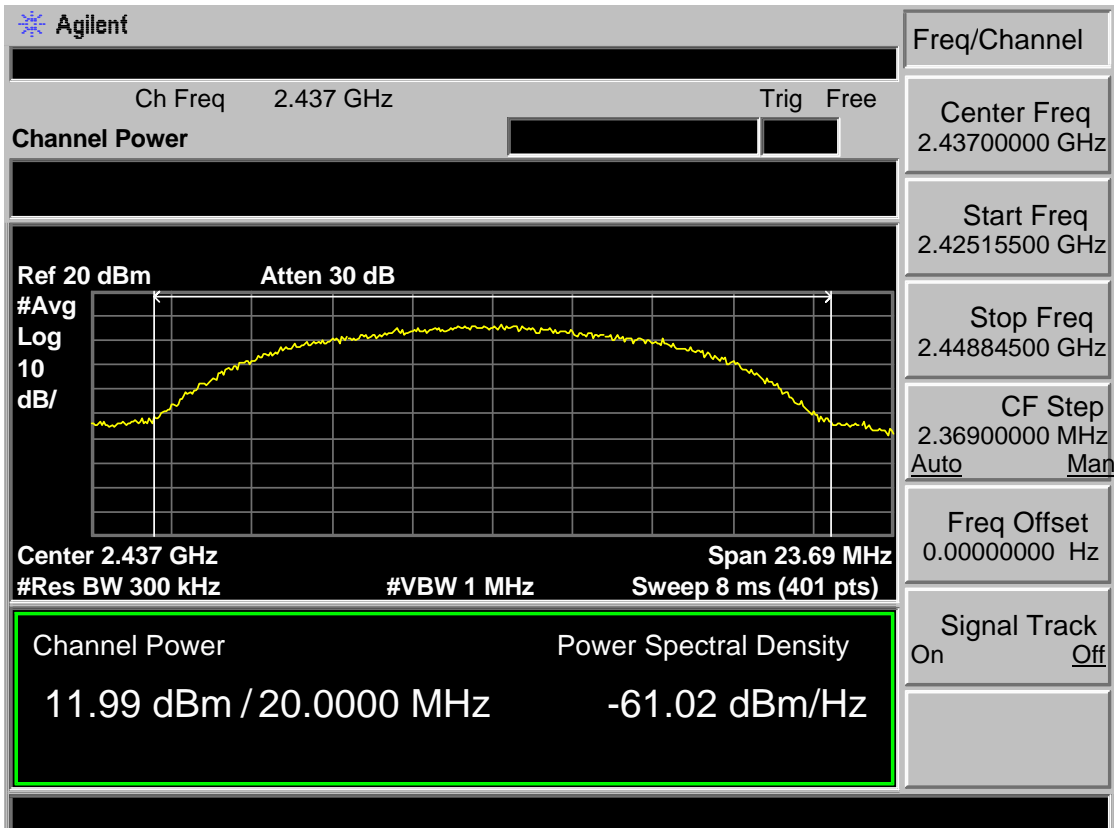
EUT: THEATER			
M/N: 6360A			
Test date: 2017-06-25		Test site: RF Site	Tested by: Seven
Pass			
Test Mode	CH	Conducted Power (dBm)	Limit (dBm)
IEEE 802.11 b	CH1	11.53	30
	CH6	11.99	30
	CH11	12.27	30
IEEE 802.11 g	CH1	10.43	30
	CH6	10.69	30
	CH11	10.92	30
IEEE 802.11 n HT 20	CH1	8.95	30
	CH6	8.52	30
	CH11	9.47	30
Conclusion : PASS			

### 7.4 Test Data

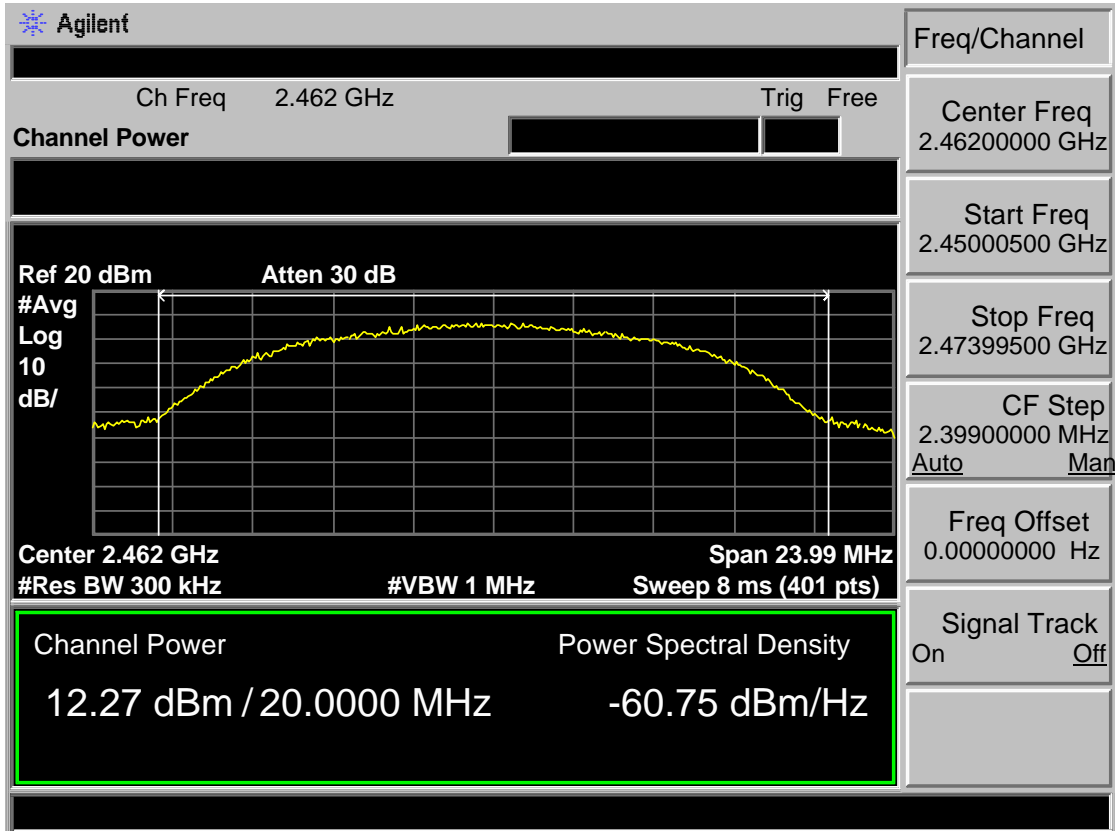
Test Mode: IEEE 802.11b 2412MHz



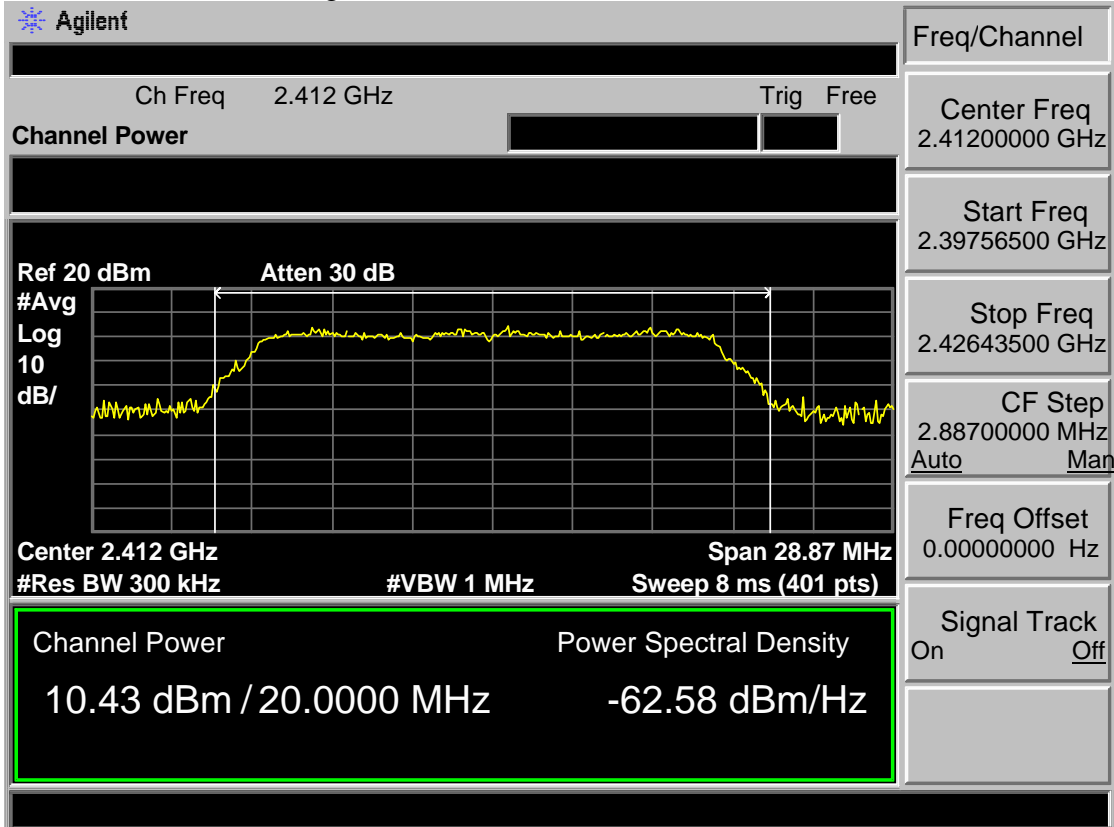
Test Mode: IEEE 802.11b 2437MHz



Test Mode: IEEE 802.11b 2462MHz



Test Mode: IEEE 802.11g 2412MHz



Test Mode: IEEE 802.11g 2437MHz





Test Mode: IEEE 802.11g 2462MHz

**Agilent**

Ch Freq 2.462 GHz Trig Free

Channel Power    

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 28.75 MHz

#Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power	Power Spectral Density
10.92 dBm / 20.0000 MHz	-62.09 dBm/Hz

Freq/Channel

Center Freq  
2.46200000 GHz

Start Freq  
2.44762500 GHz

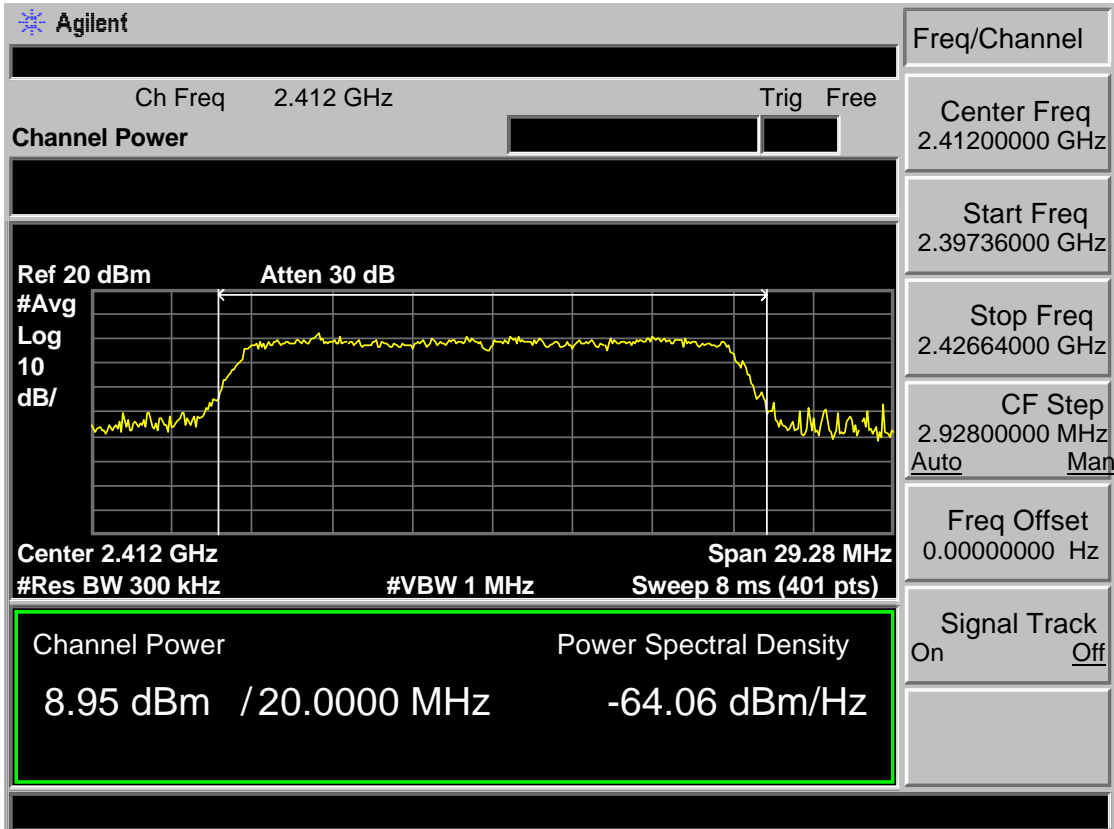
Stop Freq  
2.47637500 GHz

CF Step  
2.87500000 MHz  
Auto Man

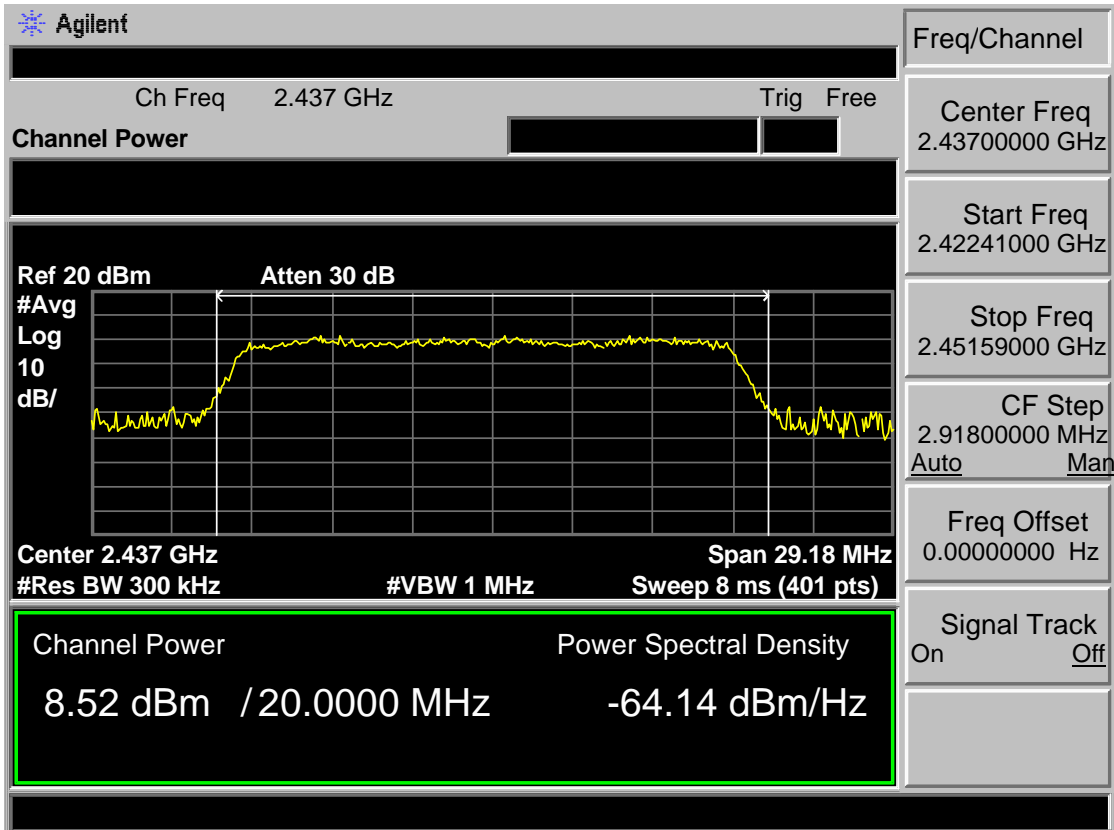
Freq Offset  
0.00000000 Hz

Signal Track  
On Off

Test Mode: IEEE 802.11n HT20 2412MHz



Test Mode: IEEE 802.11n HT20 2437MHz



Test Mode: IEEE 802.11n HT20 2462MHz

**Agilent**

Ch Freq 2.462 GHz Trig Free

**Channel Power**

Ref 20 dBm Atten 30 dB

Center 2.462 GHz Span 29.34 MHz  
 #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts)

Channel Power Power Spectral Density  
 9.47 dBm / 20.0000 MHz -63.94 dBm/Hz

Freq/Channel

Center Freq 2.46200000 GHz

Start Freq 2.44733000 GHz

Stop Freq 2.47667000 GHz

CF Step 2.93400000 MHz  
 Auto Man

Freq Offset 0.00000000 Hz

Signal Track On Off

## 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:  $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ .
  - (4). Set the VBW  $\geq 3 \text{ RBW}$ .
  - (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.

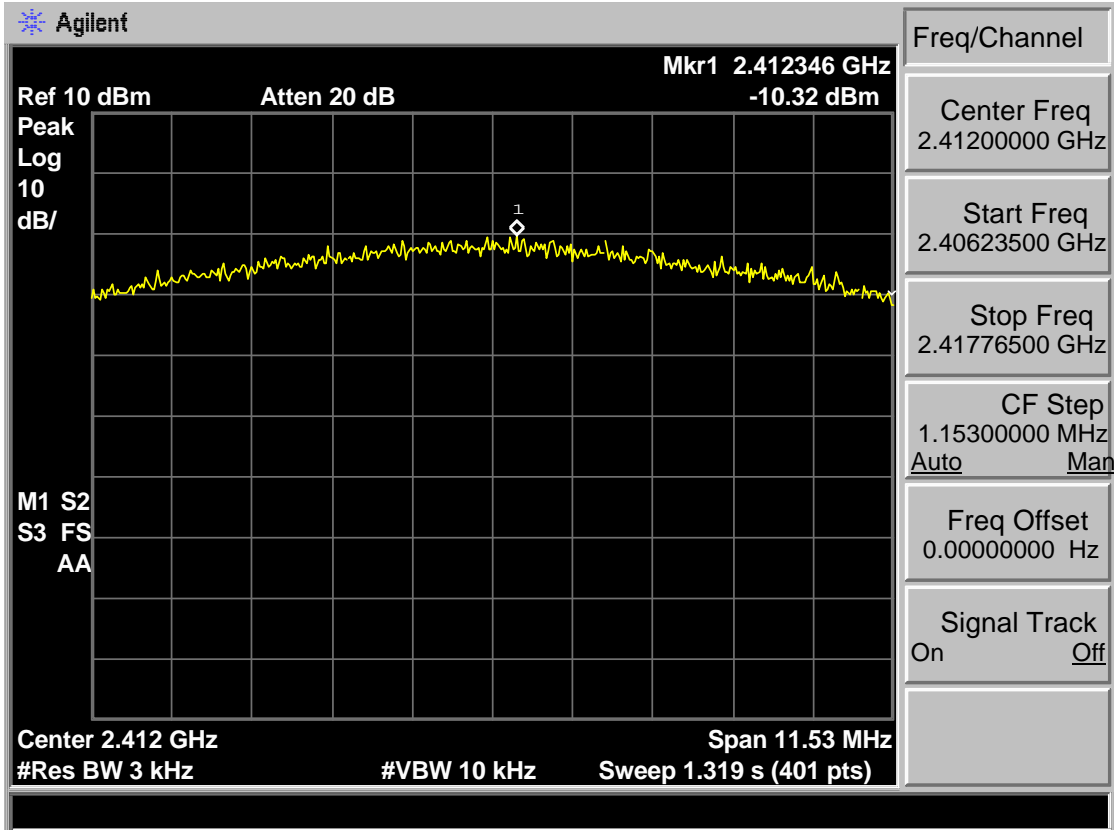


## 8.3 Test Result

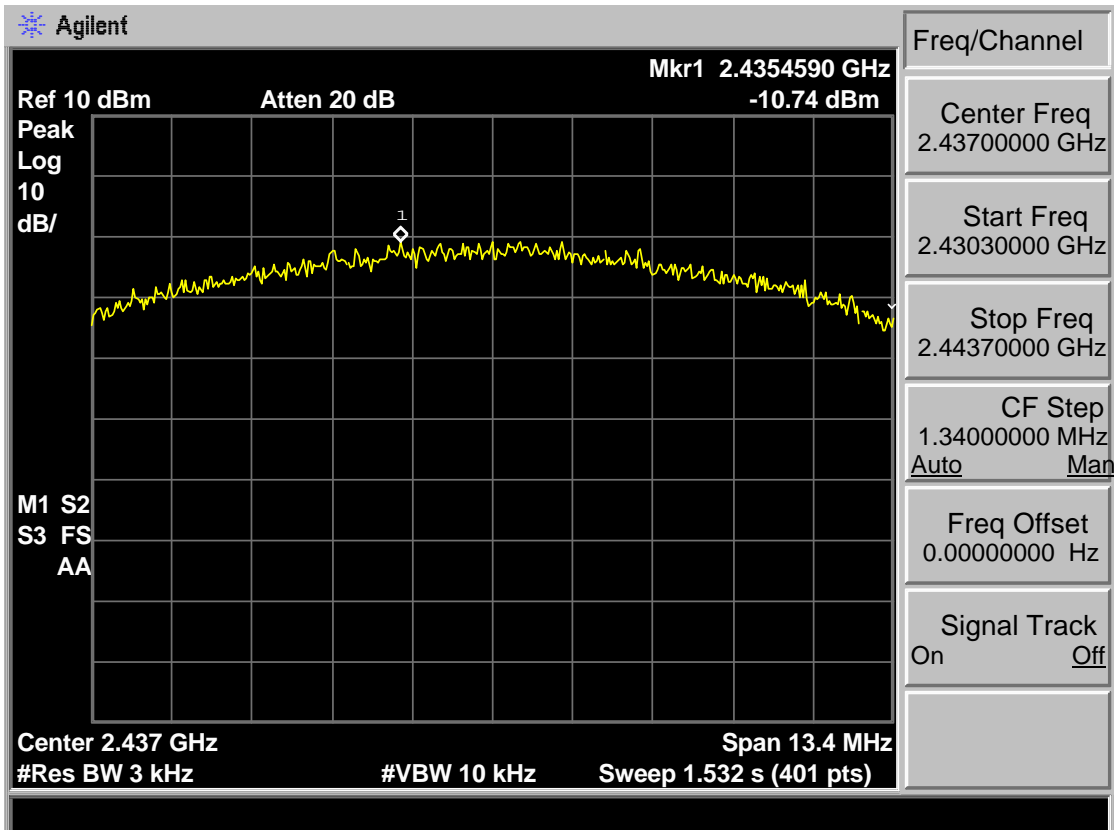
EUT: THEATER			
M/N: 6360A			
Test date: 2017-06-25		Test site: RF Site	Tested by: Seven
Pass			
Test Mode	CH	Power density ( dBm/3kHz )	Limit (dBm/3kHz)
IEEE 802.11 b	CH1	-10.32	8
	CH6	-10.74	8
	CH11	-10.08	8
IEEE 802.11 g	CH1	-13.86	8
	CH6	-12.61	8
	CH11	-12.59	8
IEEE 802.11 n HT 20	CH1	-13.81	8
	CH6	-14.65	8
	CH11	-14.88	8
Conclusion : PASS			

### 8.4 Test Data

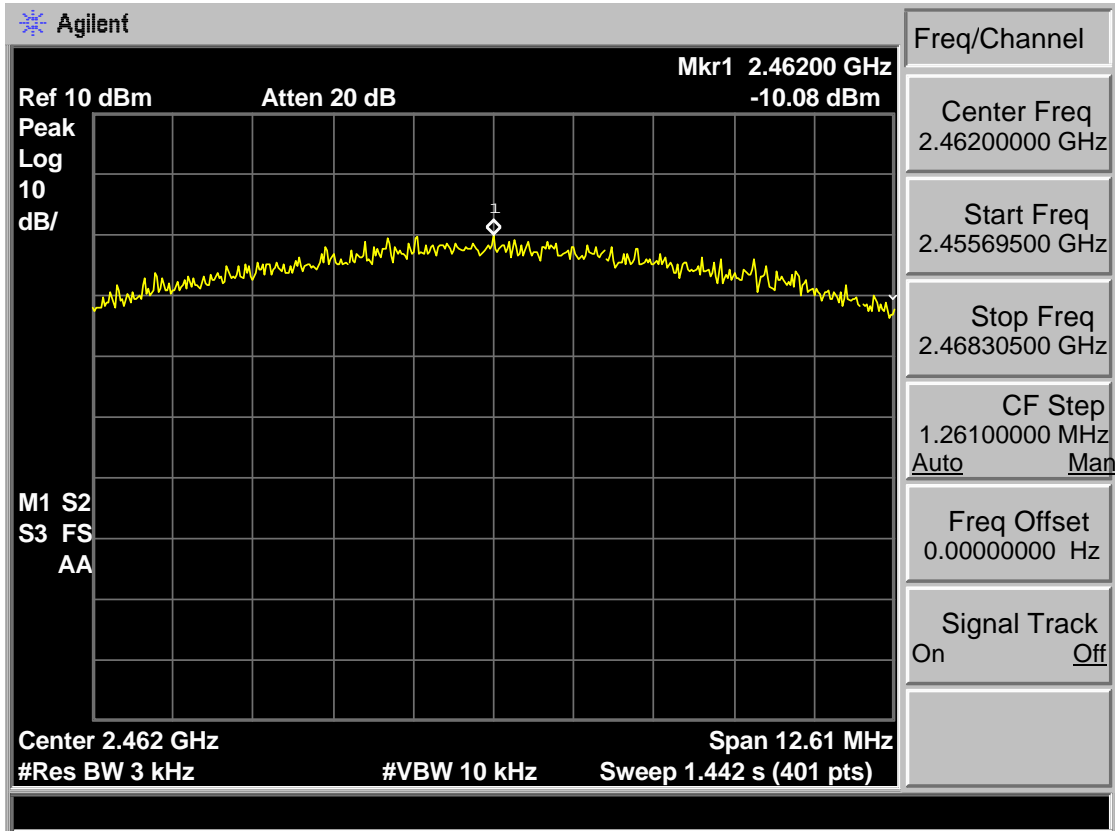
Test Mode: IEEE 802.11b 2412MHz



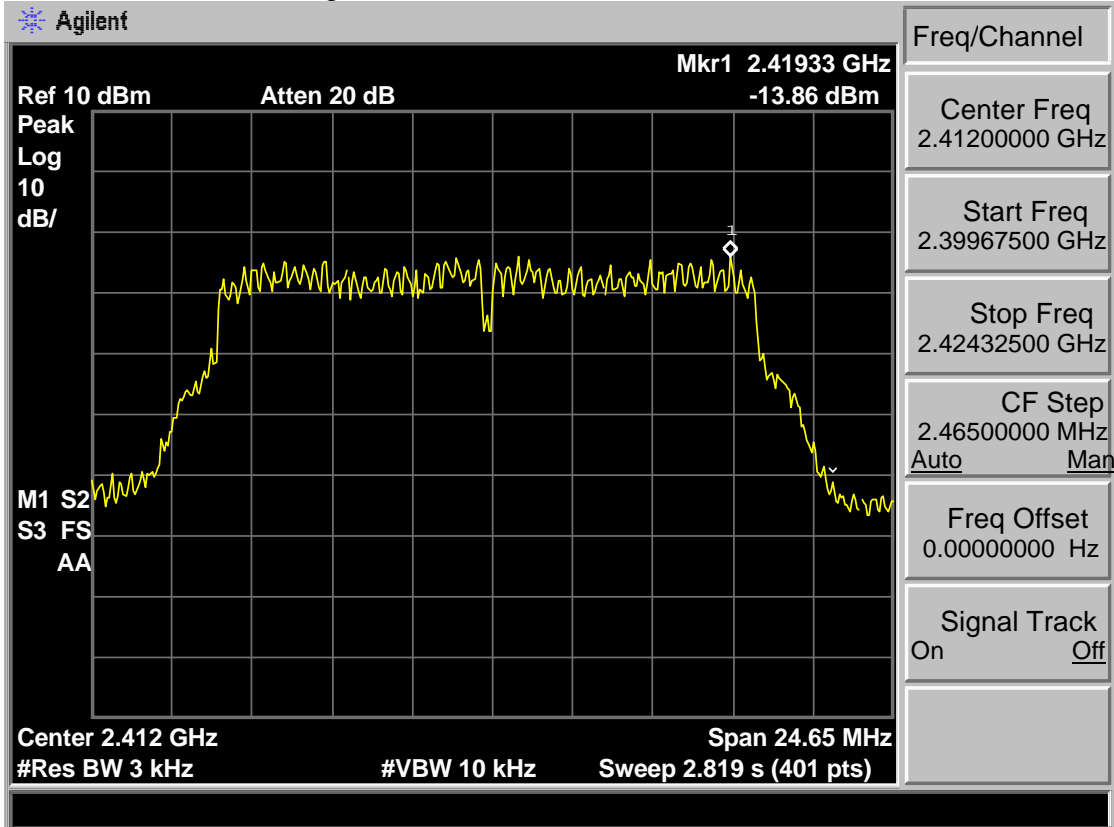
Test Mode: IEEE 802.11b 2437MHz



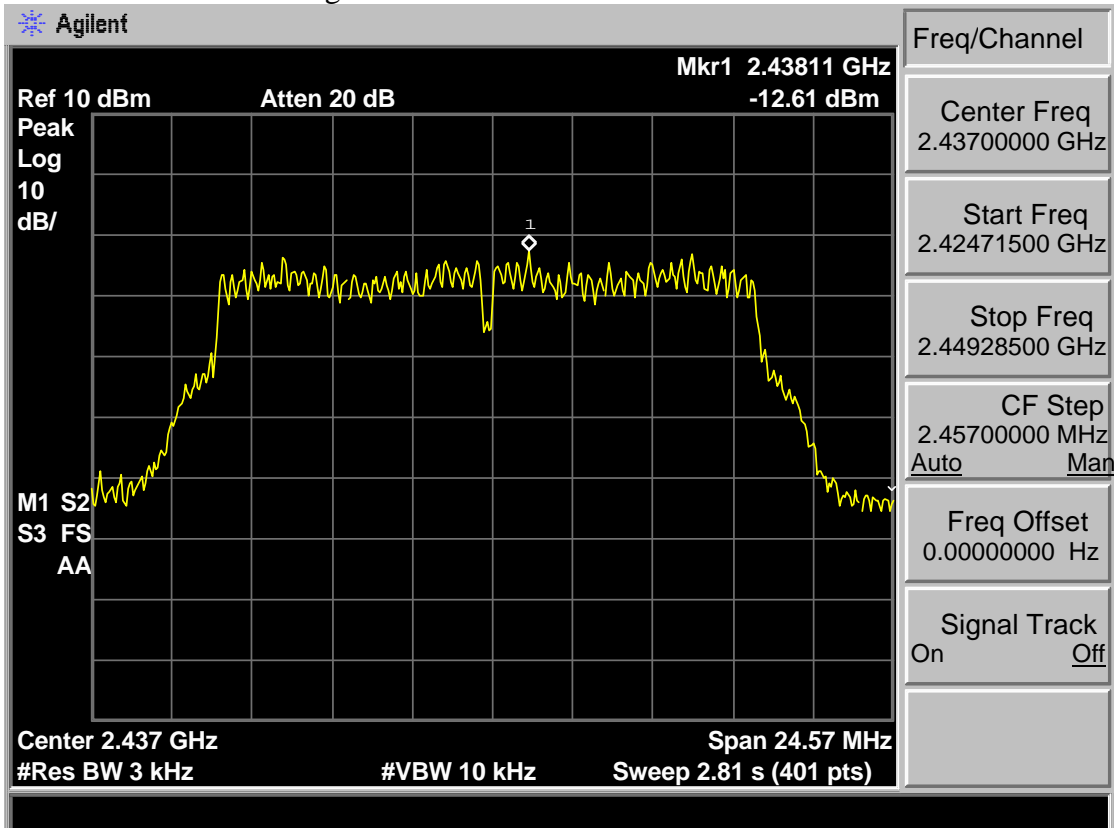
Test Mode: IEEE 802.11b 2462MHz



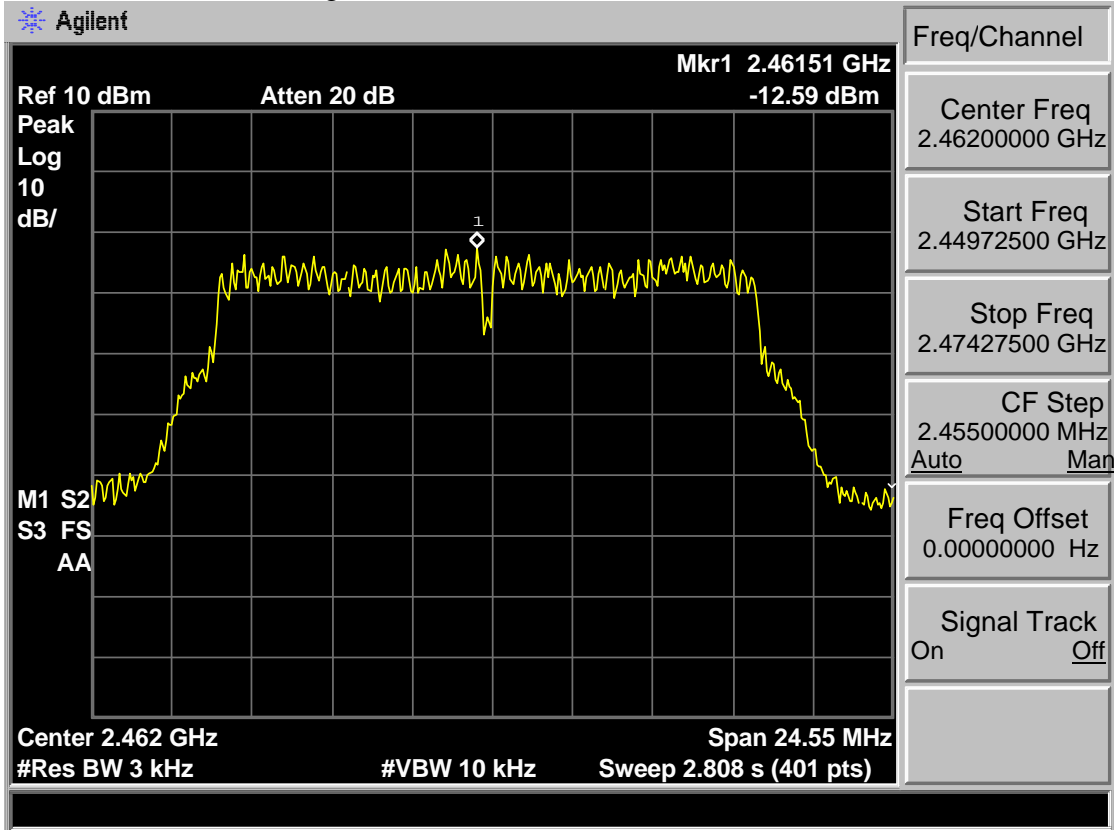
Test Mode: IEEE 802.11g 2412MHz



Test Mode: IEEE 802.11g 2437MHz

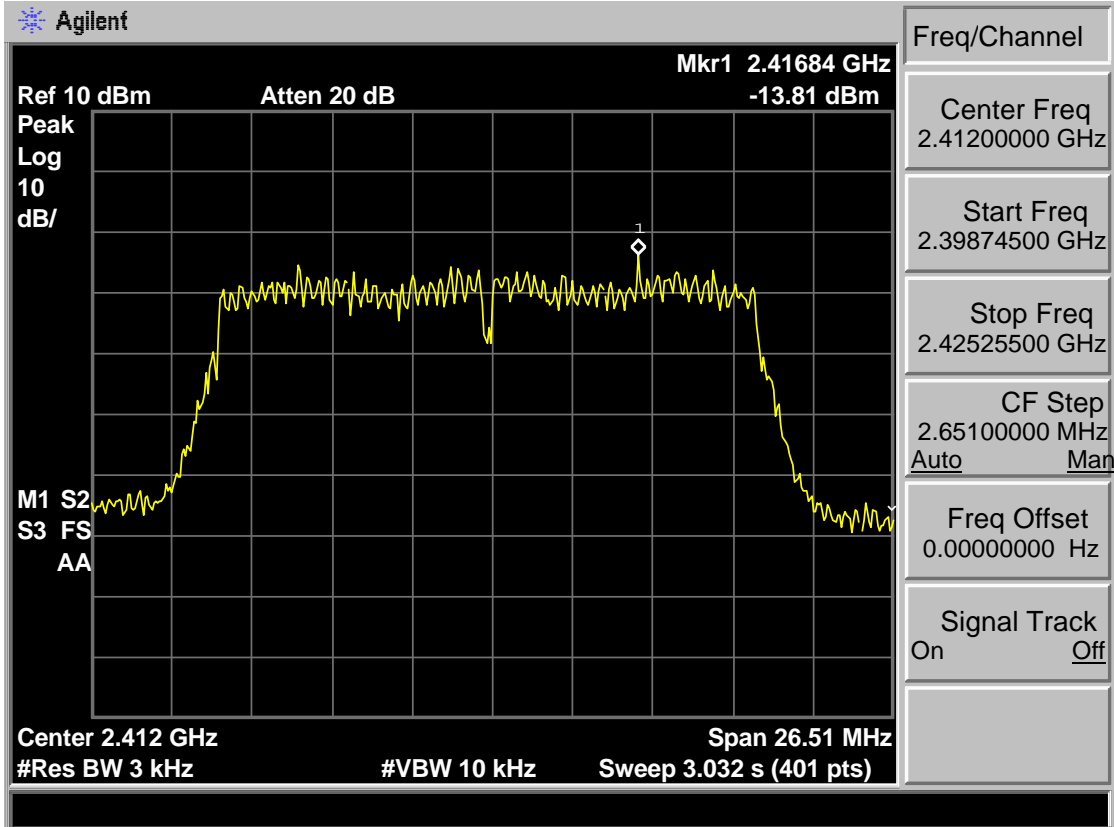


Test Mode: IEEE 802.11g 2462MHz

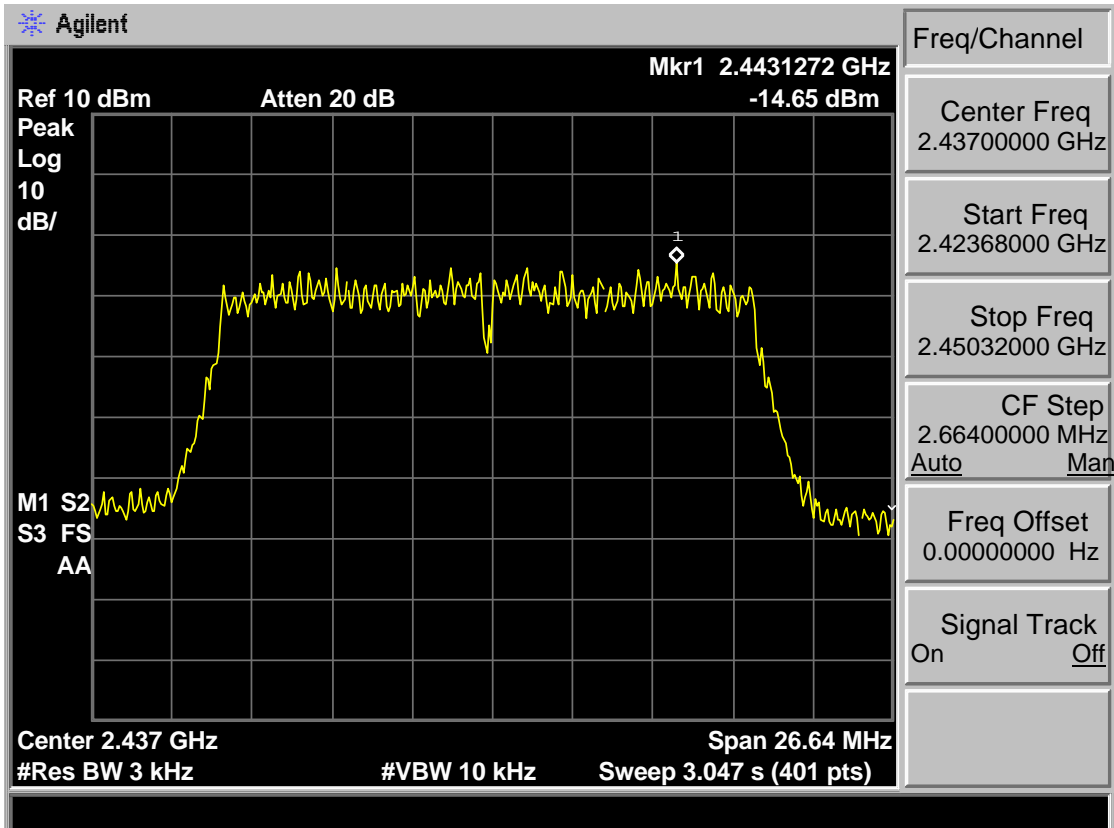




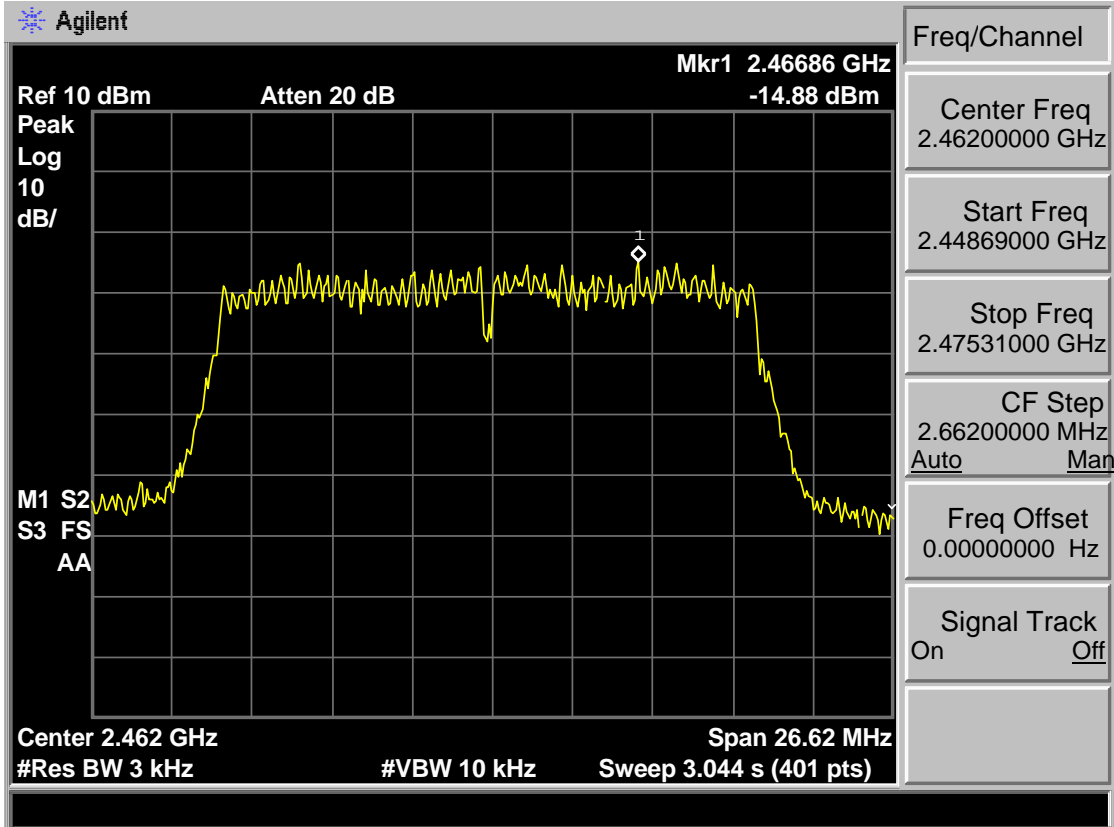
Test Mode: IEEE 802.11n HT20 2412MHz



Test Mode: IEEE 802.11n HT20 2437MHz



Test Mode: IEEE 802.11n HT20 2462MHz



## 9 ANTENNA REQUIREMENTS

### 9.1 Limit

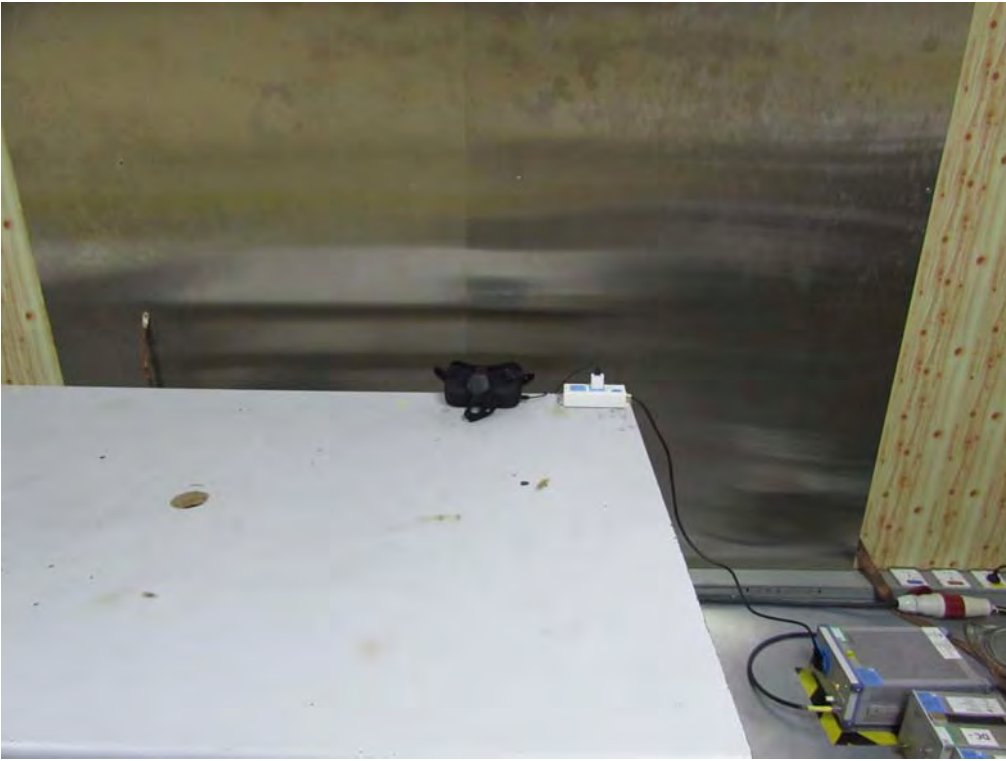
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional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

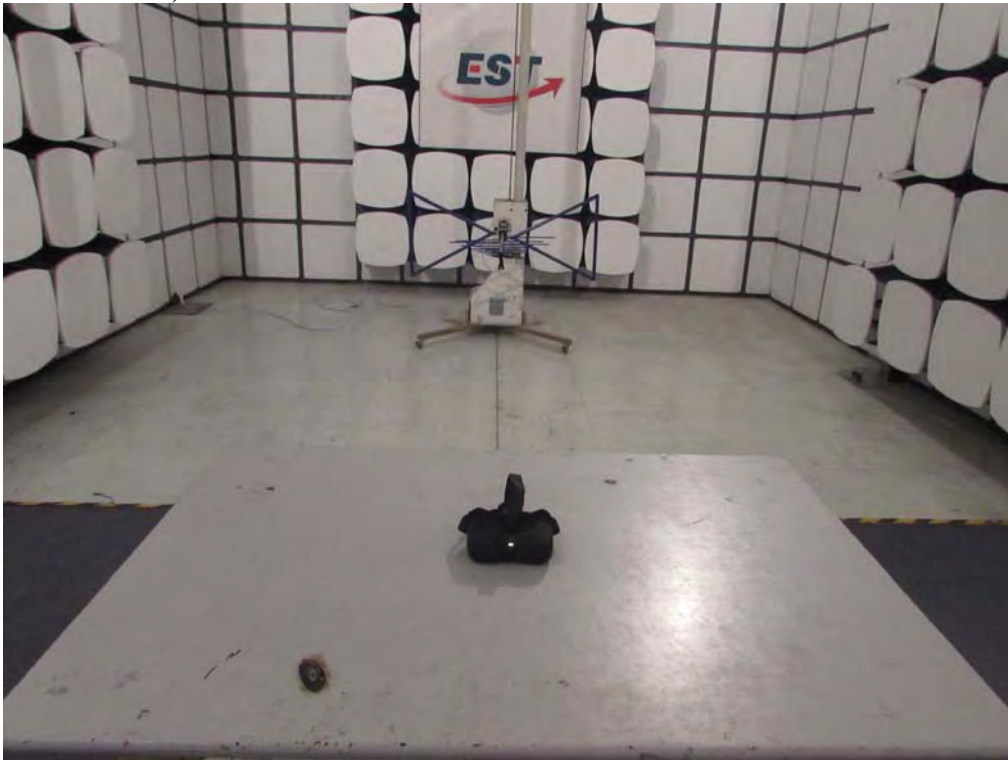
The antennas used for this product are Internal antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 2.2 dBi.

## 10 TEST SETUP PHOTO

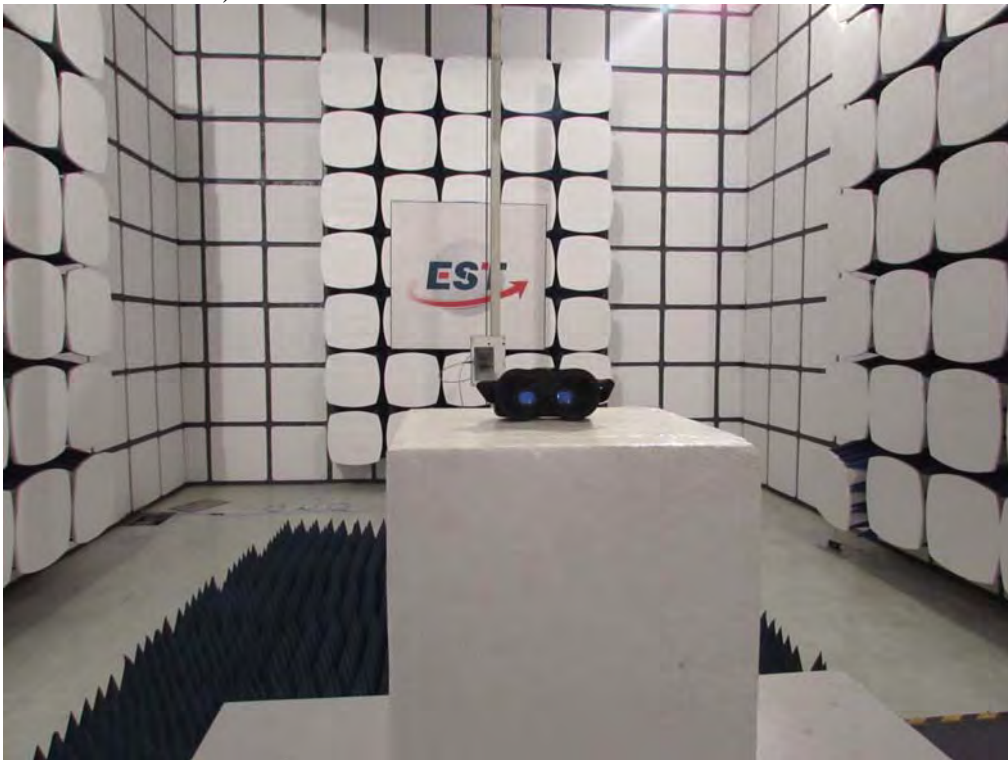
Conducted Test



Radiated Test (30-1000 MHz)



Radiated Test (Above 1000 MHz)





# 11 PHOTOS OF EUT

## External Photos

M/N: 6360A



**External Photos**  
M/N: 6360A



**External Photos**  
M/N: 6360A

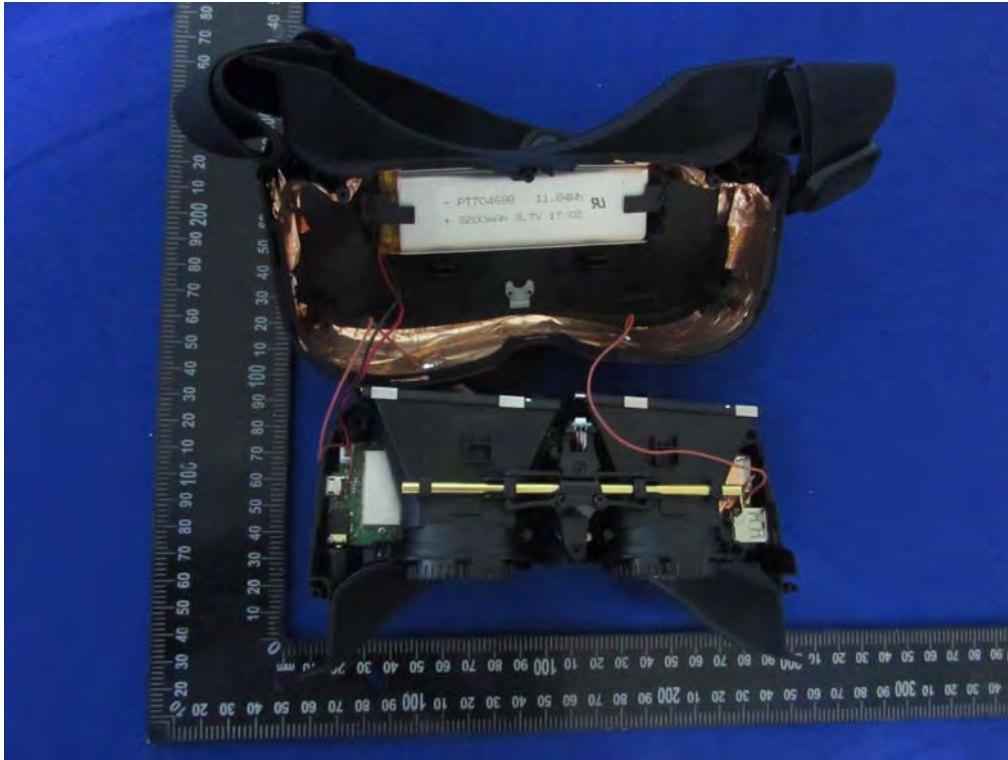




**External Photos**  
M/N: 6360A

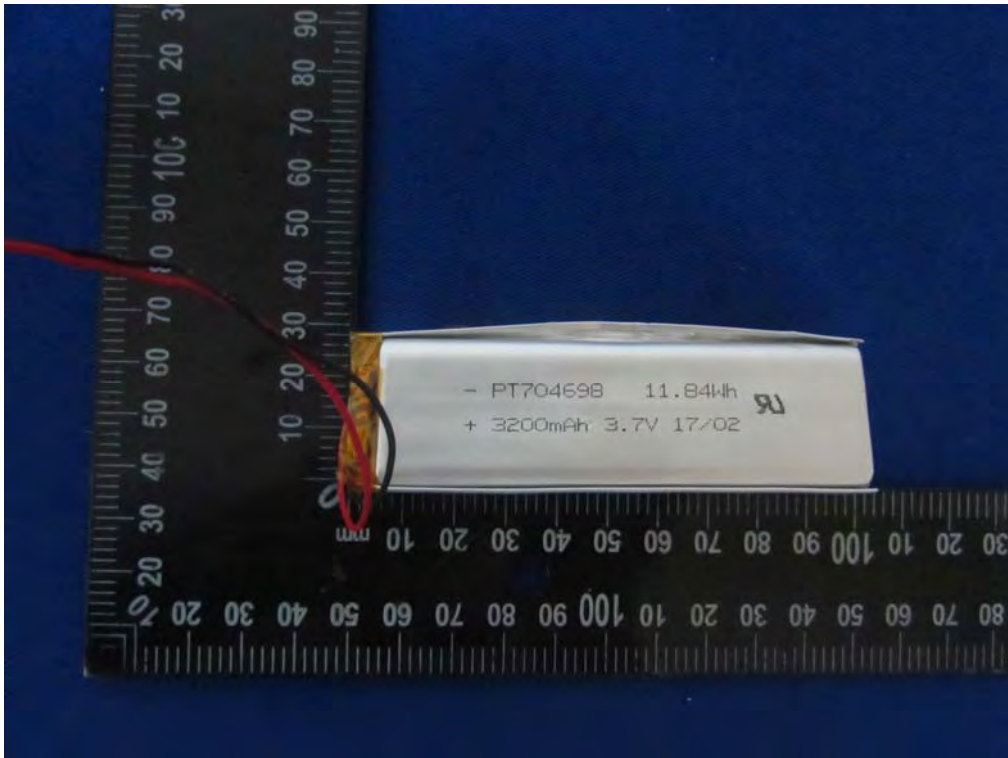


**Internal Photos**  
M/N: 6360A

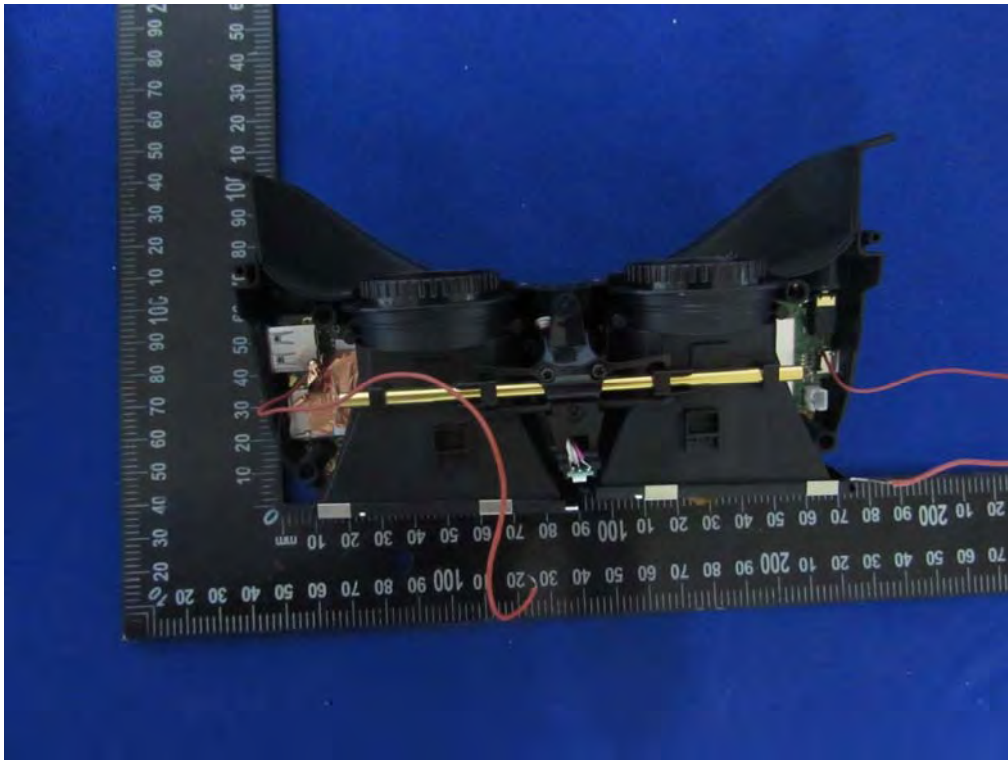
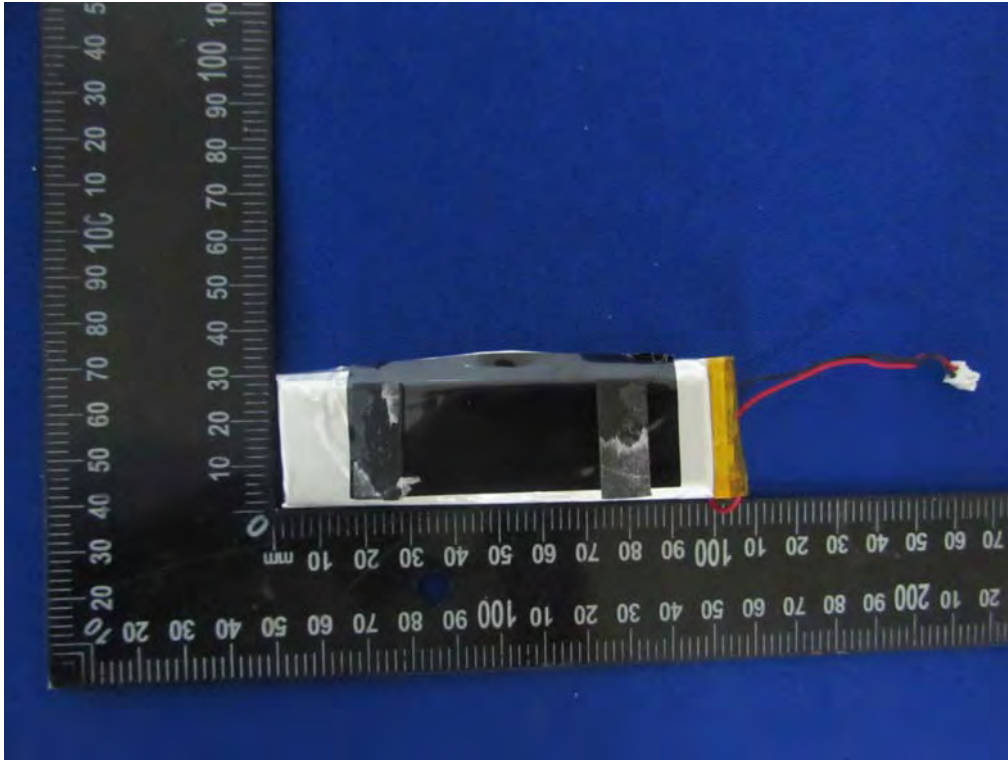




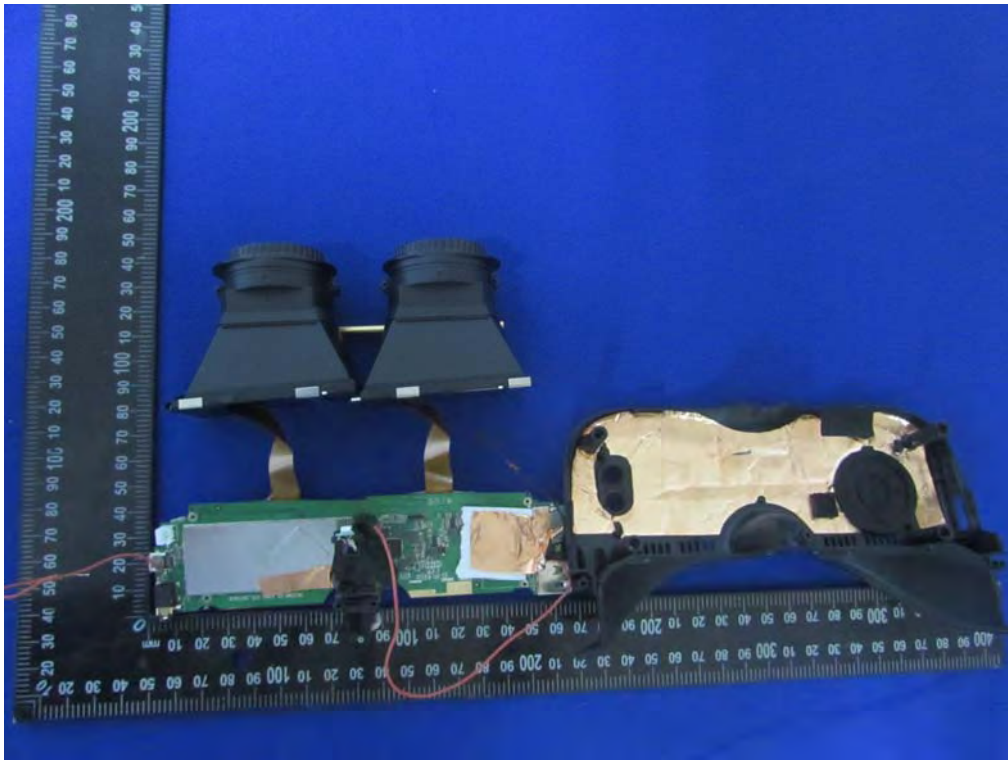
**Internal Photos**  
M/N: 6360A



**Internal Photos**  
M/N: 6360A



**Internal Photos**  
M/N: 6360A

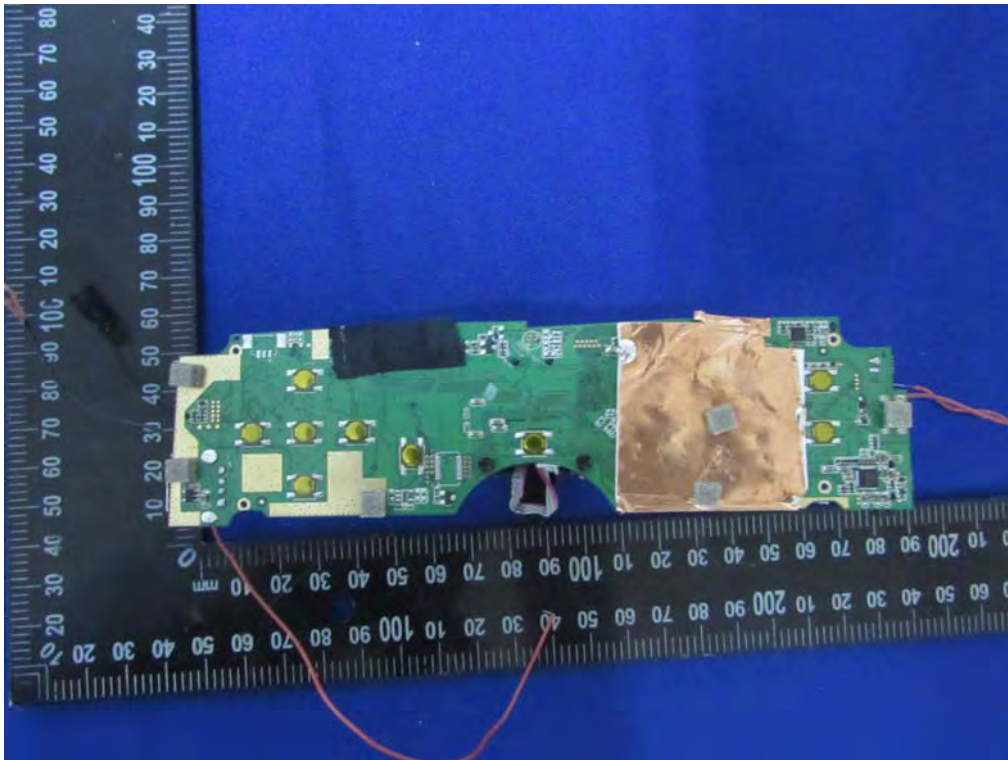
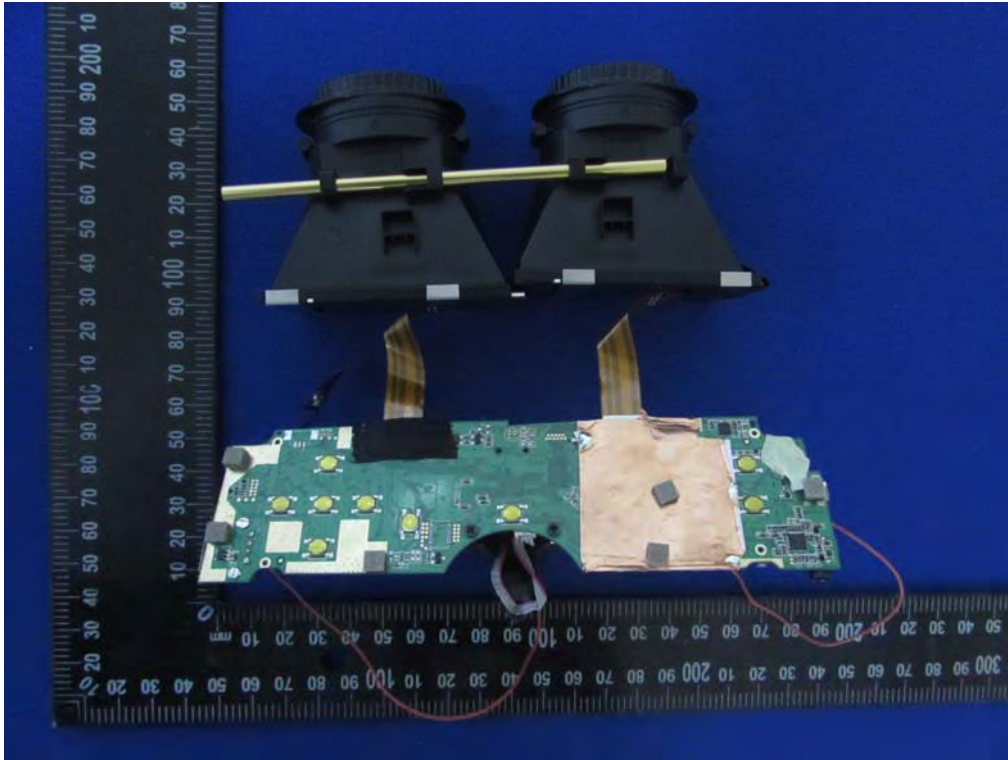




**Internal Photos**  
M/N: 6360A

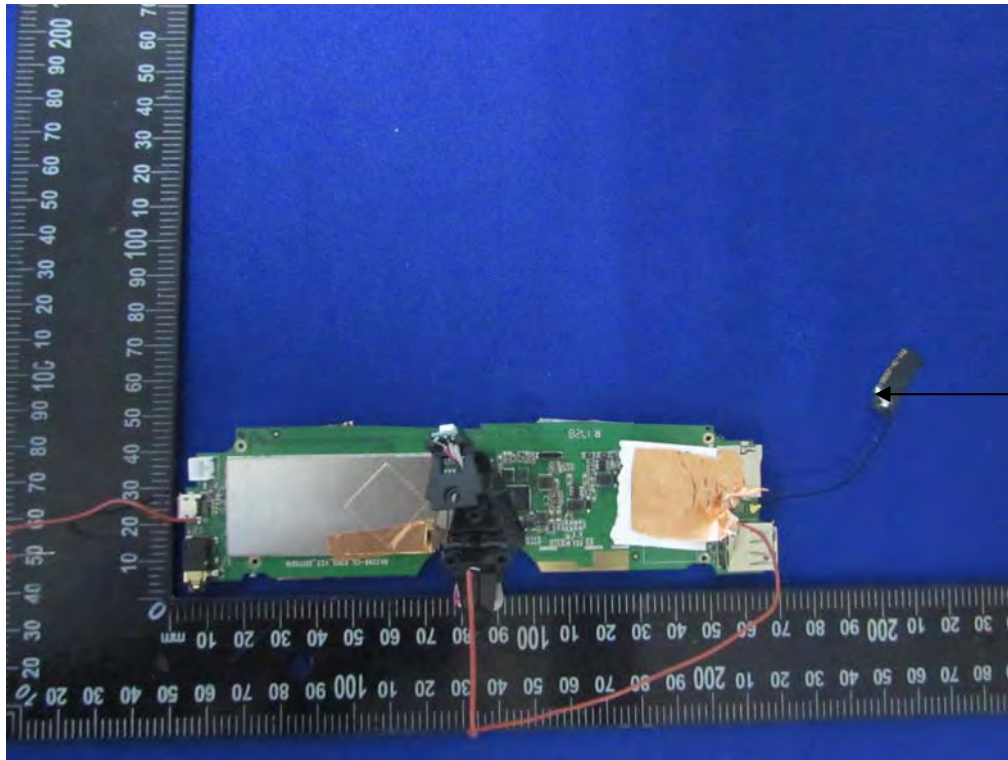


**Internal Photos**  
M/N: 6360A

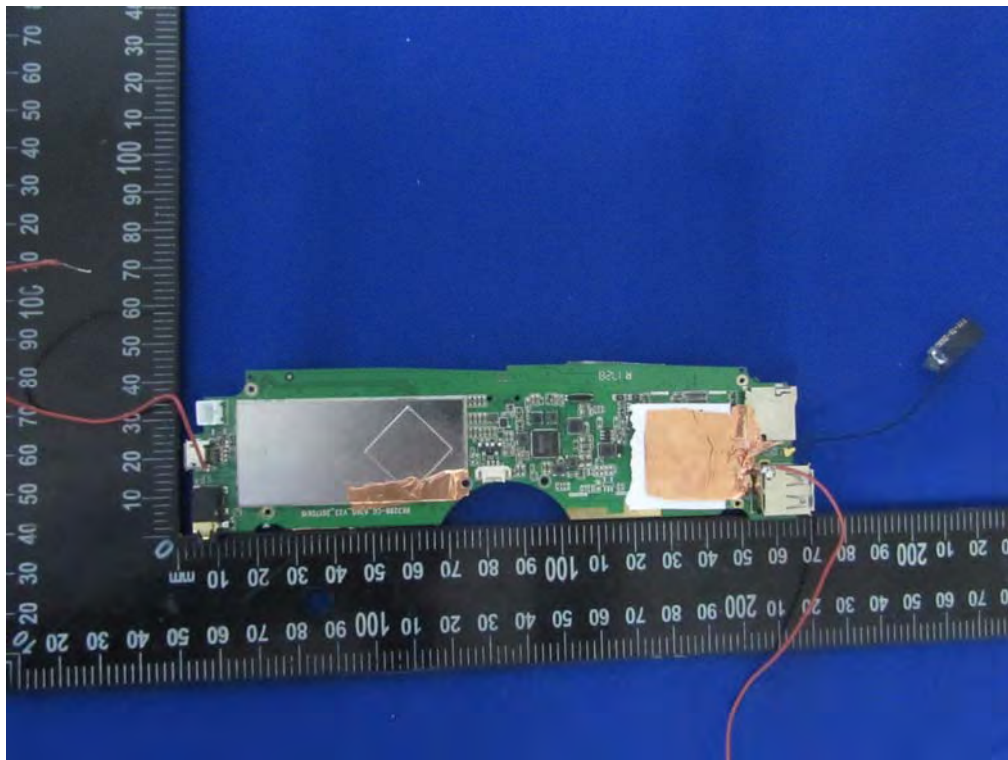




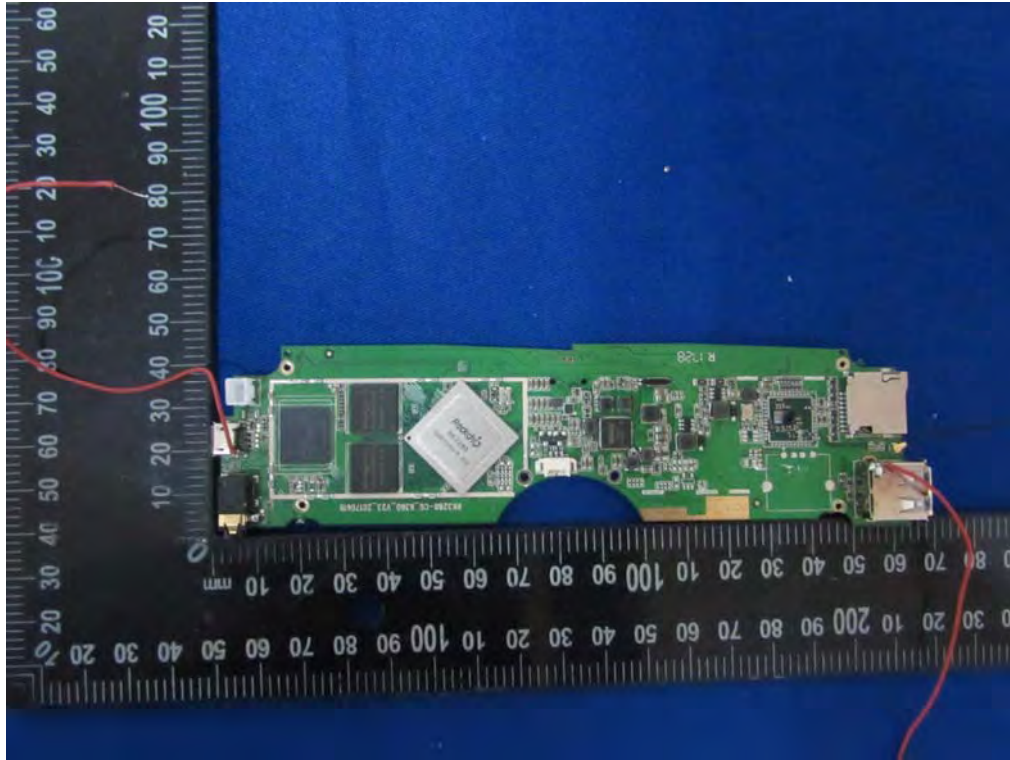
**Internal Photos**  
M/N: 6360A



Wi-Fi  
Antenna



**Internal Photos**  
M/N: 6360A



**Internal Photos**  
M/N: 6360A

