### Shenzhen Huatongwei International Inspection Co., Ltd.

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# TEST REPORT

Report No. ....: CHTEW19010123 Report verification

Project No. .....: SHT1901012016EW

FCC ID.....: TYM-CU360

Applicant's name.....: AVAYA

Manufacturer...... SHENZHEN YITOA DIGITAL TECHNOLOGY CO., LTD.

Shenzhen, Guangdong

Test item description .....: AVAYA CU-360 COLLABORATION UNIT

Trade Mark ...... Avaya

Model/Type reference...... CU-360

Listed Model(s) ..... -

Standard .....: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample.......... Jan.11,2019

Date of testing...... Jan.11,2019 ~ Jan.22,2019

Date of issue...... Jan.23,2019

Result.....: PASS

Compiled by

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Approved by

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Testing Laboratory Name .....: Shenzhen Huatongwei International Inspection Co., Ltd.

Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

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### 1. TEST STANDARDS AND REPORT VERSION

### 1.1. Test Standards

The tests were performed according to following standards:

<u>FCC Rules Part 15.247:</u> Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices

<u>KDB 558074 D01 DTS Meas Guidance v04:</u> Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating under §15.247

<u>KDB662911 D01 Multiple Transmitter Output v02r01:</u> Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

KDB662911 D02 MIMO with Cross-Polarized Antennas v01: MIMO with Cross-Polarized Antenna

### 1.2. Report Version

Version No.	Date of issue	Description
N/A	2019-01-23	Original

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## 2. TEST DESCRIPTION

Test Item	FCC Rule	Result	Test Engineer
Antenna requirement	15.203/15.247(c)	Pass	William Wang
Line Conducted Emissions (AC Main)	15.207	Pass	William Wang
Conducted Peak Output Power	15.247(b)(3)	Pass	Xiaokang Tan
Power Spectral Density	15.247(e)	Pass	Xiaokang Tan
6dB Bandwidth	15.247(a)(2)	Pass	Xiaokang Tan
Restricted band	15.247(d)/15.205	Pass	Xiaokang Tan
Spurious Emissions	15.247(d)/15.209	Pass	Xiaokang Tan

Note: The measurement uncertainty is not included in the test result.

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## 3. **SUMMARY**

### 3.1. Client Information

Applicant:	AVAYA		
Address: 250 Sidney Street Belleville, Ontario K8P 3Z3 Canada			
Manufacturer:	SHENZHEN YITOA DIGITAL TECHNOLOGY CO., LTD.		
Address:	6/F, Yitoa Buidling, Keji South 5th Road , Nanshan District, Shenzhen, Guangdong		

### 3.2. Product Description

5.2. Product Description				
Name of EUT:	AVAYA CU-360 COLLABORATION UNIT			
Trade Mark:	Avaya			
Model No.:	CU-360			
Listed Model(s):	-			
IMEI:	-			
Power supply:	DC 5V			
Adapter information:	Input: AC100-240V, 0.8A, 50/60Hz			
Adapter information.	Output: DC 5V, 3A			
Hardware version:	-			
Software version:	-			
WIFI				
Supported type:	802.11b/802.11g/802.11n(HT20)			
Modulation:	DSSS for 802.11b			
Modulation.	OFDM for 802.11g/802.11n(HT20)			
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20)			
Channel number:	11 for 802.11b/802.11g/802.11n(HT20)			
Channel separation:	5MHz			
Channel separation: Antenna number:	5MHz FPC Antenna			

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### 3.3. Operation State

### > Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

802.11b/g/n(HT20)				
Channel Frequency (MHz)				
01	2412			
02	2417			
03	2422			
04	2427			
05	2432			
06	2437			
07	2442			
08	2447			
09	2452			
10	2457			
11	2462			

### > Test mode

_			
For	RE	test	items

The engineering test program was provided and enabled to make EUT continuous transmit (duty cycle>98%).

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For RF test axis

EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

### 3.4. EUT Configuration

The following peripheral devices and interface cables were connected during the measurement:

supplied by the manufacturer

0	- sup	plied	by th	e lab

		Manufacturer:	/
0	,	Model No.:	/
	1	Manufacturer:	/
0	,	Model No.:	/

### 3.5. Modifications

No modifications were implemented to meet testing criteria.

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### 4. TEST ENVIRONMENT

### 4.1. Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd. Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

### 4.2. Test Facility

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files.

### IC-Registration No.:5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No.: 5377B-1.

### ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

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### 4.3. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
Relative Humidity:	30~60 %
Air Pressure:	950~1050mba

### 4.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd. quality system according to ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Here after the best measurement capability for Shenzhen Huatongwei International Inspection Co., Ltd. is reported:

Test Items	Measurement Uncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emissions 9kHz~40GHz	1.60 dB	(1)
Radiated spurious emissions 9kHz~40GHz	2.20 dB	(1)
Conducted Emissions 9kHz~30MHz	3.39 dB	(1)
Radiated Emissions 30~1000MHz	4.24 dB	(1)
Radiated Emissions 1~18GHz	5.16 dB	(1)
Radiated Emissions 18~40GHz	5.54 dB	(1)

<sup>(1)</sup> This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

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## 4.5. Equipments Used during the Test

Condu	Conducted Emissions							
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)		
1	EMI Test Receiver	R&S	ESCI	101247	10/27/2018	10/26/2019		
2	Artificial Mains	SCHWARZBECK	NNLK 8121	573	10/27/2018	10/26/2019		
3	Pulse Limiter	R&S	ESH3-Z2	101488	10/27/2018	10/26/2019		
4	RF Connection Cable	HUBER+SUHNER	EF400	N/A	11/14/2017	11/13/2019		
5	Test Software	R&S	ES-K1	N/A	N/A	N/A		
6	Temperature and Humidity Meter	MIAOXIN	TH10R	N/A	10/30/2018	10/29/2019		

Radia	ted Emissions(Below 1GHz	)				
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
1	Semi-Anechoic Chamber	Albatross projects	SAC-3m-02	C11121	09/30/2018	09/29/2021
2	EMI Test Receiver	R&S	ESCI	100900	10/28/2018	10/27/2019
3	Loop Antenna	R&S	HFH2-Z2	100020	04/02/2018	04/02/2021
4	Ultra-Broadband Antenna	SCHWARZBECK	VULB9163	546	04/05/2017	04/04/2020
5	RF Connection Cable	HUBER+SUHNER	N/A	N/A	09/28/2018	09/27/2019
6	RF Connection Cable	HUBER+SUHNER	SUCOFLEX104	501184/4	09/28/2018	09/27/2019
7	Test Software	R&S	ES-K1	N/A	N/A	N/A
8	Turntable	Maturo Germany	TT2.0-1T	N/A	N/A	N/A
9	Antenna Mast	Maturo Germany	TAM-4.0-P	N/A	N/A	N/A
10	Temperature and Humidity Meter	KEJIAN	KJ03	N/A	10/30/2018	10/29/2019

Radia	ted Emissions(Above 1GHz	2)				
Item	Test Equipment	Manufacturer Model No. Seria		Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)
1	Anechoic Chamber	Albatross projects	SAC-3m-01	C11121	09/30/2018	09/29/2021
2	Horn Antenna	SCHWARZBECK	9120D	1011	03/27/2017	03/26/2020
3	Preamplifier	BONN	BLWA0160-2M	1811887	11/14/2018	11/13/2019
4	Pre-amplifier	SCHWARZBECK	BBV 9743	9743-0022	10/17/2018	10/16/2019
5	Broadband Pre-amplifier	SCHWARZBECK	BBV 9718	9718-248	04/28/2018	04/27/2019
6	Spectrum Analyzer	R&S	FSP40 100597		10/27/2018	10/26/2019
7	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	11/15/2018	11/14/2019
8	RF Connection Cable	HUBER+SUHNER	RE-7-FH	N/A	11/15/2018	11/14/2019
9	Test Software	Audix	E3	N/A	N/A	N/A
10	Turntable	Maturo Germany	TT2.0-1T	N/A	N/A	N/A
11	Antenna Mast	Maturo Germany	CAM-4.0-P-12	N/A	N/A	N/A
12	Temperature and Humidity Meter	MINGLE	YH101	N/A	10/30/2018	10/29/2019

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RF Cor	RF Conducted Test									
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. (mm-dd-yy)	Next Cal. (mm-dd-yy)				
1	Spectrum Analyzer	R&S	FSV40	100048	10/28/2018	10/27/2019				
2	EXA Signal Analyzer	Agilent	N9020A	MY5050187	09/29/2018	09/28/2019				
3	Power Meter	Anritsu	ML249A	N/A	09/29/2018	09/28/2019				
4	OSP	R&S	OSP120	101317	N/A	N/A				

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### 5. TEST CONDITIONS AND RESULTS

### 5.1. Antenna Requirement

#### **REQUIREMENT:**

### FCC CFR Title 47 Part 15 Subpart C 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. The use of a permanently attached antenna or of anantenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

### FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

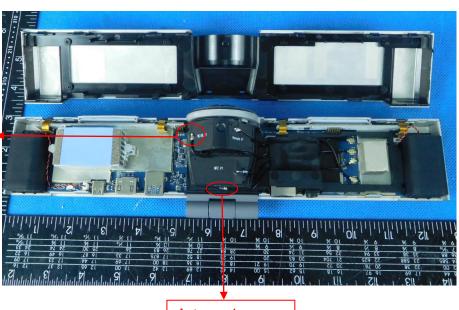
(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

#### **TEST RESULTS**

Antenna 0 for 2.4G/5G WIFI/BT

□ Passed	☐ Not Applicable
----------	------------------

The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



Antenna 1 for 2.4G/5G WIFI

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### 5.2. Conducted Emissions (AC Main)

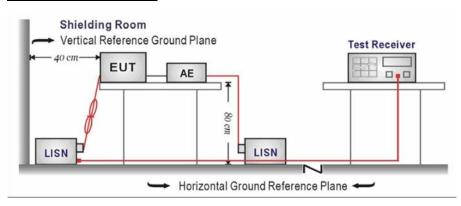
### LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207:

Frequency range (MHz)	Limit (dBuV)				
Frequency range (MHZ)	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30	60	50			

<sup>\*</sup> Decreases with the logarithm of the frequency.

#### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

### TEST MODE:

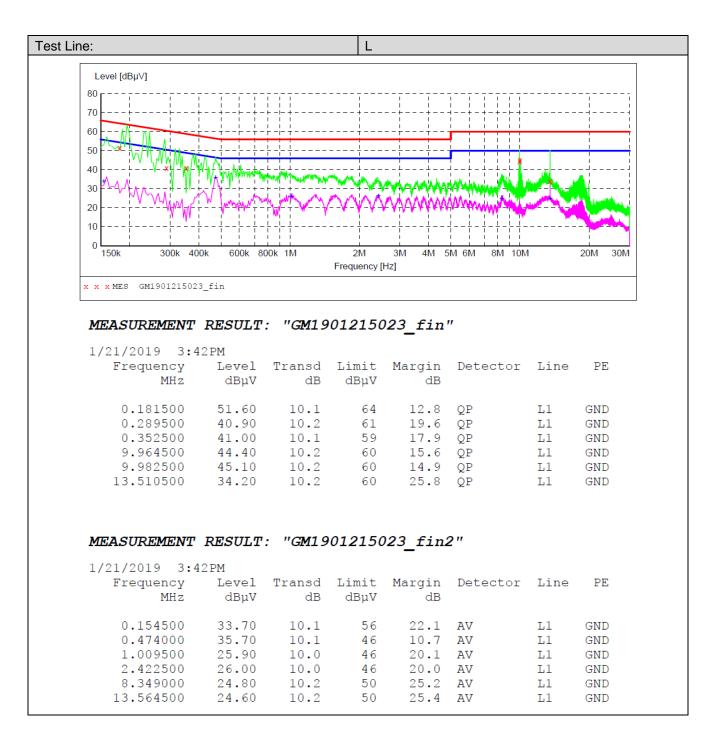
Please refer to the clause 3.3

#### **TEST RESULTS**

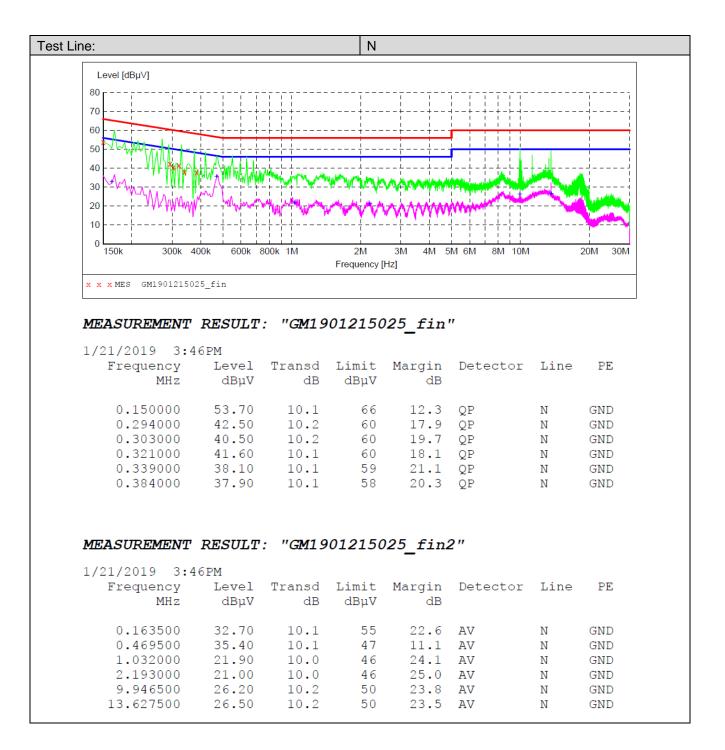
Note:

- 1) Transd=Cable lose+ Pulse Limiter Factor + Artificial Mains Factor
- 2) Margin= Limit -Level

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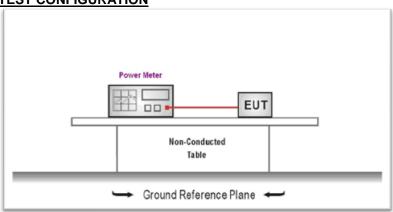
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### 5.3. Conducted Peak Output Power

### **LIMIT**

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm:

### **TEST CONFIGURATION**



### **TEST PROCEDURE**

- The EUT was tested according to ANSI C63.10: 2013 and KDB 558074 D01 for compliance to FCC 47 CFR 15.247 requirements.
- 2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
- 3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector
- 4. Record the measurement data.

### **TEST MODE:**

Please refer to the clause 3.3

#### **TEST RESULTS**

Typo	Channel	Output por	wer (dBm)	Total Power	Limit	Result
Type	Chamilei	Antenna 0	Antenna 1	(dBm)	(dBm)	
	01	15.35	16.75	-		
802.11b	06	16.26	17.02	-	≤30.00	Pass
	11	16.56	17.32 -			
	01	20.94	22.17	-		
802.11g	06	21.83	22.41	-	≤30.00	Pass
	11	21.99	22.77	-		
	01	20.85	22.07	24.55		
802.11n(HT20)	06	21.71	22.41	25.07	≤30.00	Pass
	11	22.12	22.70	25.42		

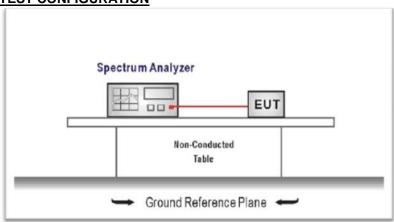
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### 5.4. Power Spectral Density

### <u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### **TEST CONFIGURATION**



### **TEST PROCEDURE**

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below:

Center frequency=DTS channel center frequency

Span =1.5 times the DTS bandwidth

RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW

Sweep time = auto couple

Detector = peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### **TEST MODE:**

Please refer to the clause 3.3

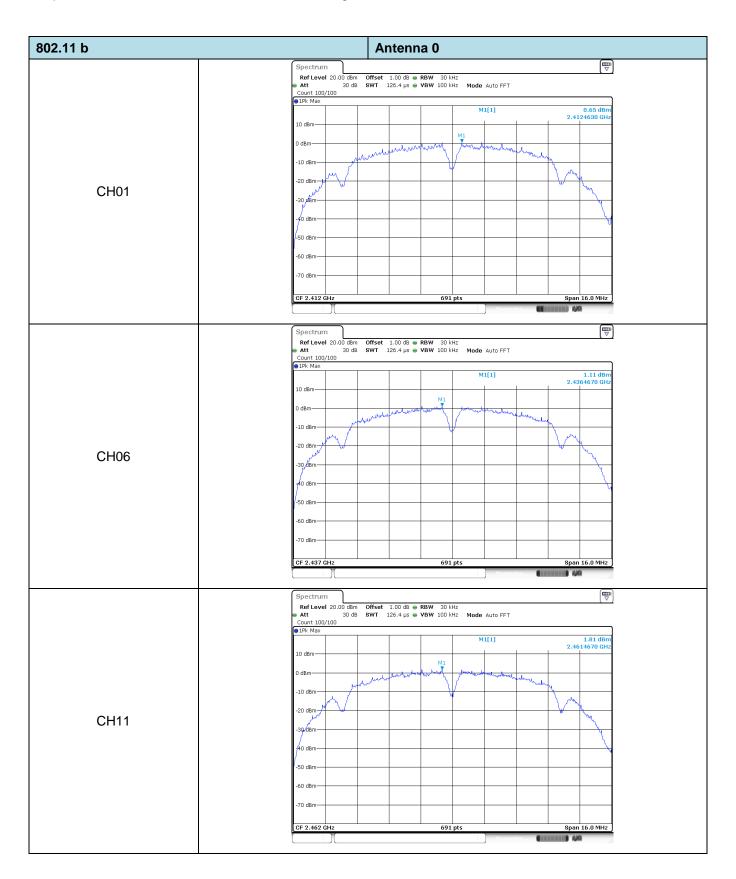
#### **TEST RESULTS**

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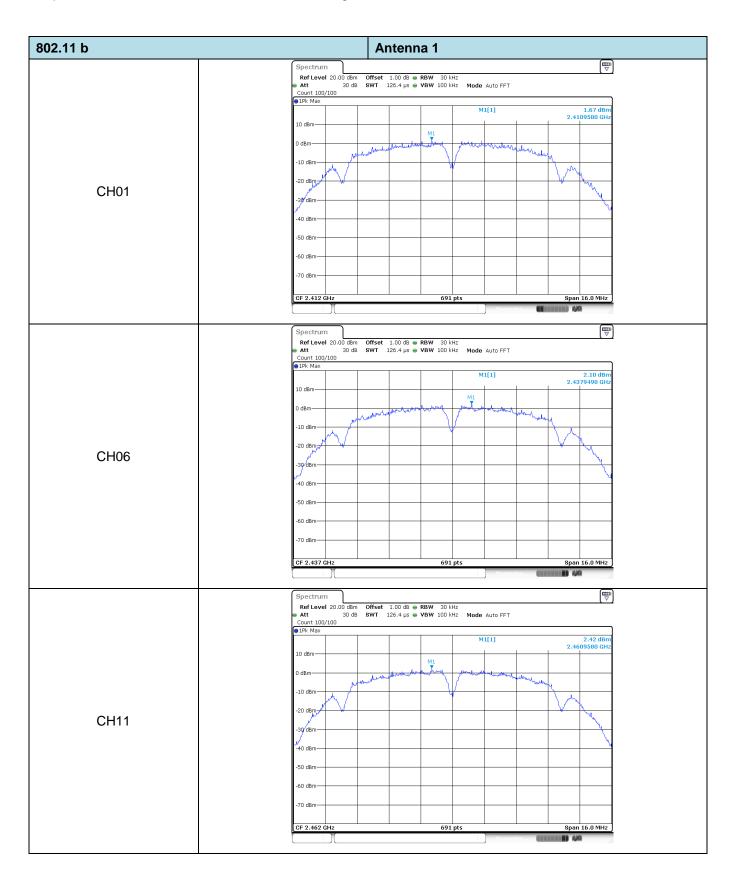
Туре	Channel		ctral Density 30KHz)	Total Power Spectral Density	Limit	Result
		Antenna 0	Antenna 1	(dBm/30KHz)	(dBm/3KHz)	
	01	0.65	1.67	-		
802.11b	06	1.11	2.10	-	≤8.00	Pass
	11	1.81	2.42	-		
	01	-3.31	-2.40	-		Pass
802.11g	06	-2.58	-2.12	-	≤8.00	
	11	-2.43	-1.85	-		
	01	-3.57	-2.09	0.24		
802.11n(HT20)	06	-2.51	-2.06	0.73	≤8.00	Pass
	11	-2.33	-1.77	0.97		

Test plot as follows:

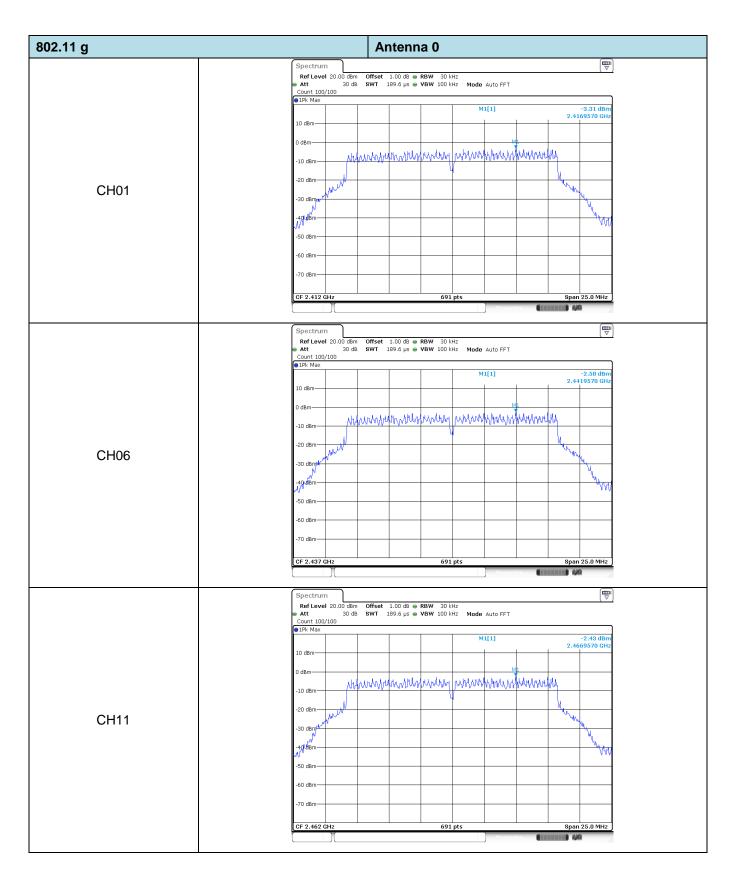
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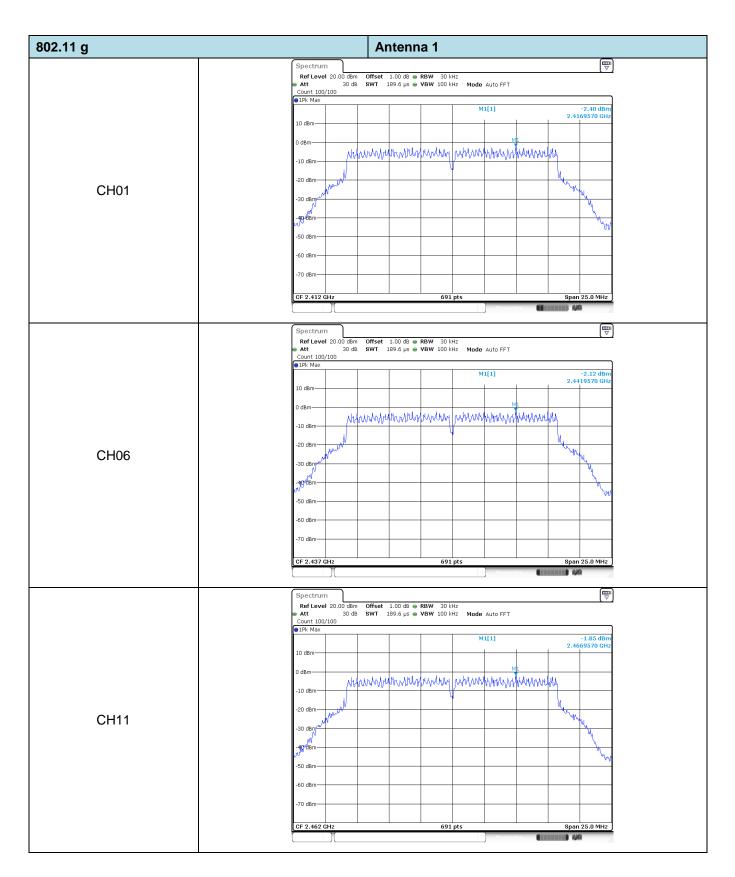
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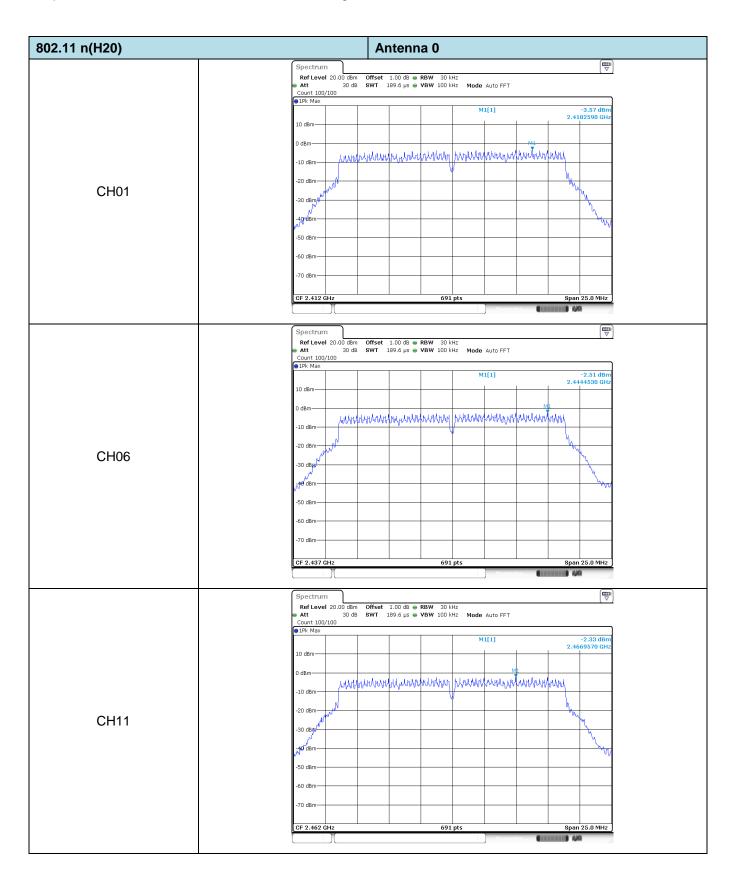
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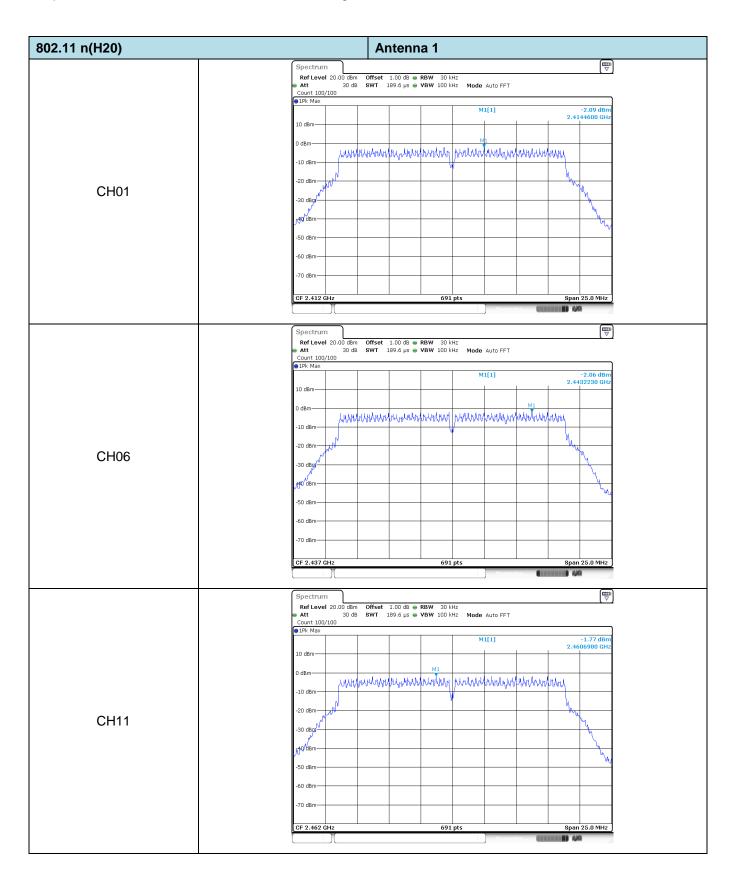
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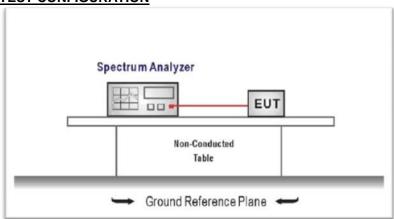
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### 5.5. 6dB Bandwidth

### **LIMIT**

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2): For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

### **TEST CONFIGURATION**



#### **TEST PROCEDURE**

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency = DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

#### **TEST MODE:**

Please refer to the clause 3.3

### **TEST RESULTS**

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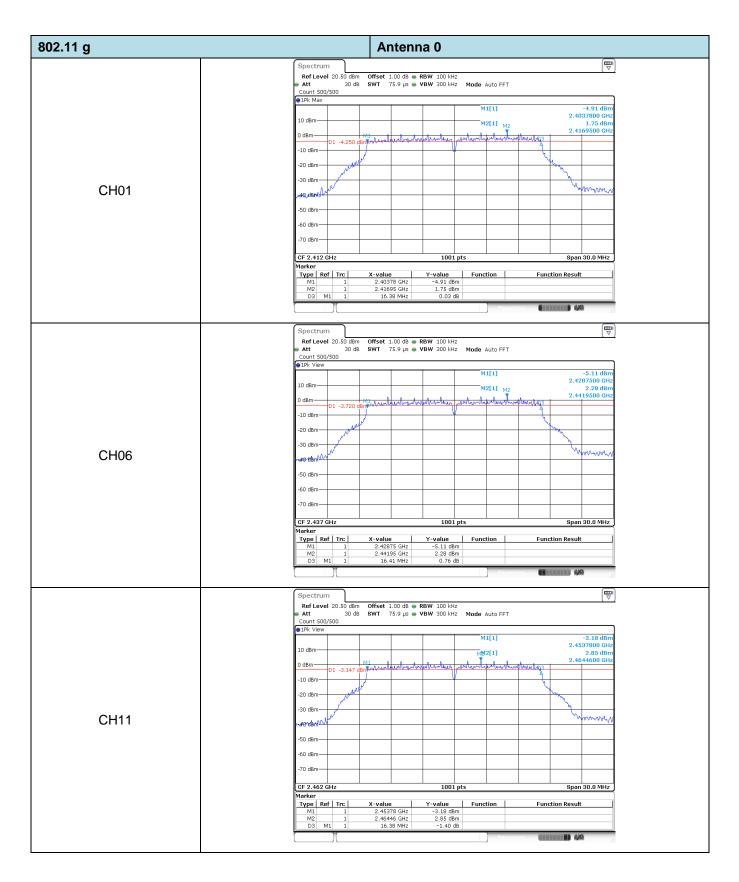
Time	Channal	6dB Bandv	vidth (MHz)	Linait (Id In)	Result	
Туре	Channel	Antenna 0 Antenna 1		Limit (kHz)	Result	
	01	8.64	9.09			
802.11b	06	8.13	9.09	≥500	Pass	
	11	8.61	8.61			
	01	16.38	16.41			
802.11g	06	16.41	16.41	≥500	Pass	
	11	16.38	16.41			
	01	17.64	17.67			
802.11n(HT20)	06	17.64	17.67	≥500	Pass	
	11	17.61	17.67			

Test plot as follows:

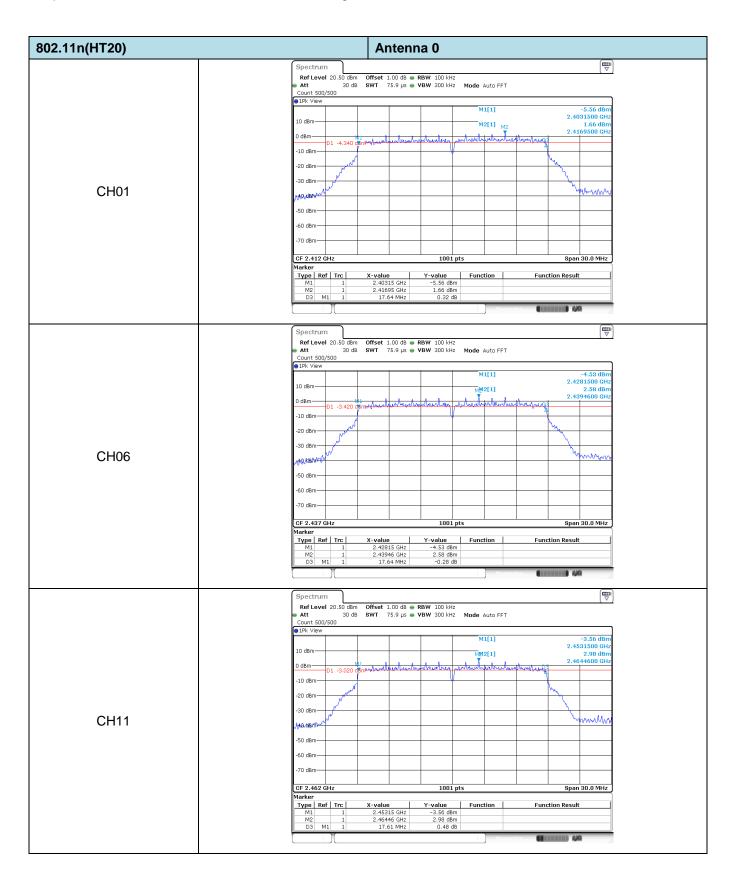
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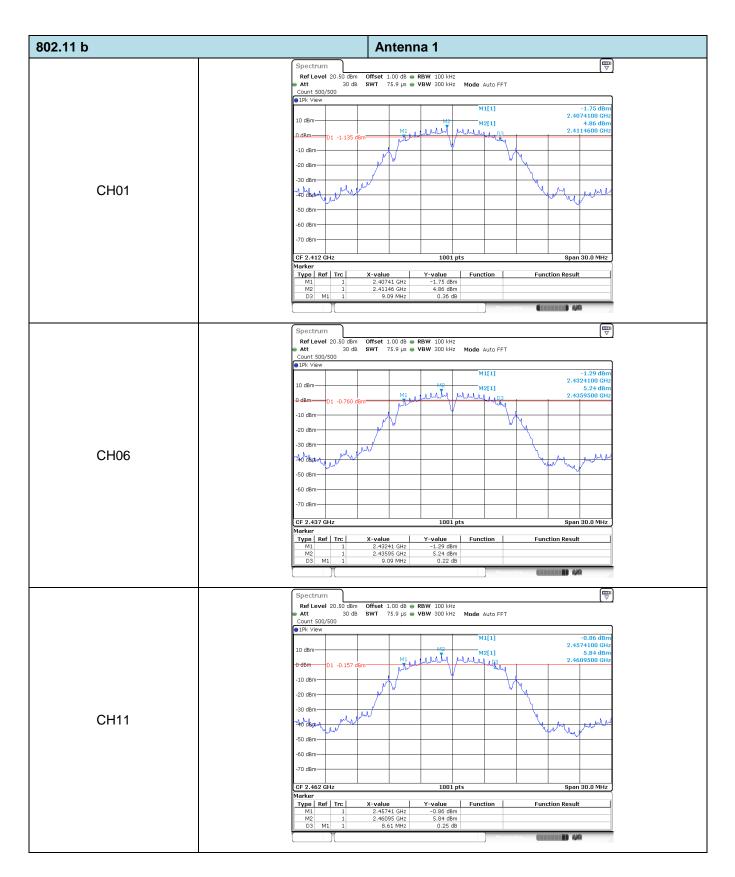
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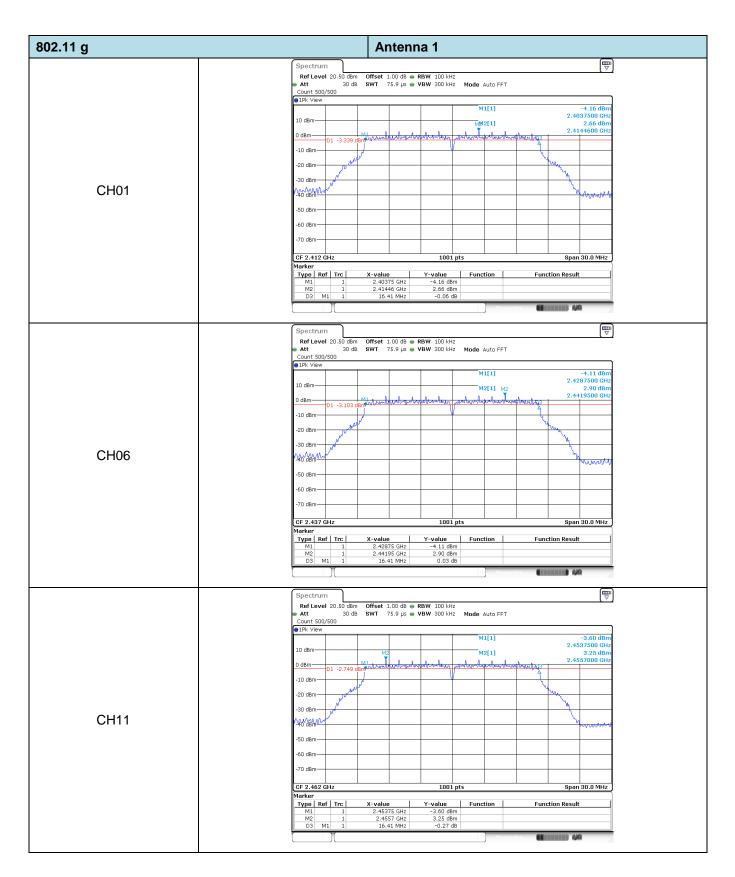
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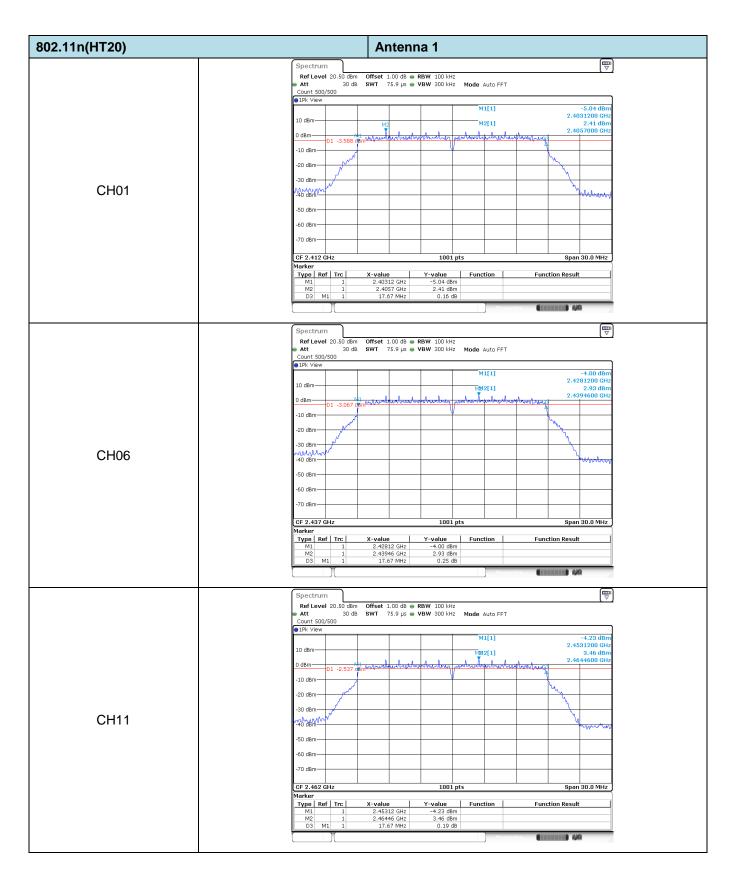
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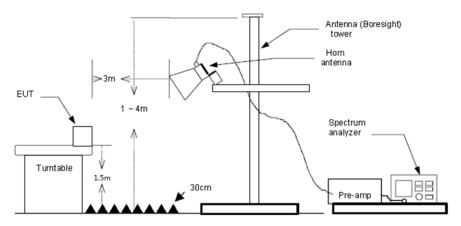
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### 5.6. Restricted Band

### **LIMIT**

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

#### **TEST CONFIGURATION**



### **TEST PROCEDURE**

- The EUT was setup and tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2) The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3) The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4) The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- 5) The receiver set as follow: RBW=1MHz, VBW=3MHz PEAK detector for Peak value. RBW=1MHz, VBW=3MHz RMS detector for Average value.

### **TEST MODE:**

Please refer to the clause 3.3

#### **TEST RESULTS**

#### Note:

- 1) Final level= Read level + Antenna Factor+ Cable Loss- Preamp Factor
- 2) We pre-scan test all antennas data, and recorded the worst one for the report.

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802.11b					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2310.00	14.36	28.05	6.62	0.00	49.03	74.00	-24.97	Vertical	Peak
2390.01	14.53	27.65	6.75	0.00	48.93	74.00	-25.07	Vertical	Peak
2310.00	9.75	28.05	6.62	0.00	44.42	74.00	-29.58	Horizontal	Peak
2390.01	9.66	27.65	6.75	0.00	44.06	74.00	-29.94	Horizontal	Peak
2310.00	10.58	28.05	6.62	0.00	45.25	54.00	-8.75	Vertical	Average
2390.01	10.21	27.65	6.75	0.00	44.61	54.00	-9.39	Vertical	Average
2310.00	10.56	28.05	6.62	0.00	45.23	54.00	-8.77	Horizontal	Average
2390.01	10.19	27.65	6.75	0.00	44.59	54.00	-9.41	Horizontal	Average

802.11b					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.49	13.52	27.26	6.83	0.00	47.61	74.00	-26.39	Vertical	Peak
2500.00	15.48	27.20	6.84	0.00	49.52	74.00	-24.48	Vertical	Peak
2483.49	13.97	27.26	6.83	0.00	48.06	74.00	-25.94	Horizontal	Peak
2500.00	13.50	27.20	6.84	0.00	47.54	74.00	-26.46	Horizontal	Peak
2483.49	10.37	27.26	6.83	0.00	44.46	54.00	-9.54	Vertical	Average
2500.00	10.19	27.20	6.84	0.00	44.23	54.00	-9.77	Vertical	Average
2483.49	10.82	27.26	6.83	0.00	44.91	54.00	-9.09	Horizontal	Average
2500.00	10.17	27.20	6.84	0.00	44.21	54.00	-9.79	Horizontal	Average

802.11g					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2310.00	13.64	28.05	6.62	0.00	48.31	74.00	-25.69	Vertical	Peak
2390.01	14.26	27.65	6.75	0.00	48.66	74.00	-25.34	Vertical	Peak
2310.00	14.76	28.05	6.62	0.00	49.43	74.00	-24.57	Horizontal	Peak
2390.01	14.90	27.65	6.75	0.00	49.30	74.00	-24.70	Horizontal	Peak
2310.00	10.61	28.05	6.62	0.00	45.28	54.00	-8.72	Vertical	Average
2390.01	11.39	27.65	6.75	0.00	45.79	54.00	-8.21	Vertical	Average
2310.00	10.59	28.05	6.62	0.00	45.26	54.00	-8.74	Horizontal	Average
2390.01	11.46	27.65	6.75	0.00	45.86	54.00	-8.14	Horizontal	Average

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802.11g					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.49	14.55	27.26	6.83	0.00	48.64	74.00	-25.36	Vertical	Peak
2500.00	14.83	27.20	6.84	0.00	48.87	74.00	-25.13	Vertical	Peak
2483.49	15.22	27.26	6.83	0.00	49.31	74.00	-24.69	Horizontal	Peak
2500.00	14.27	27.20	6.84	0.00	48.31	74.00	-25.69	Horizontal	Peak
2483.49	11.98	27.26	6.83	0.00	46.07	54.00	-7.93	Vertical	Average
2500.00	10.34	27.20	6.84	0.00	44.38	54.00	-9.62	Vertical	Average
2483.49	11.98	27.26	6.83	0.00	46.07	74.00	-27.93	Horizontal	Average
2500.00	10.44	27.20	6.84	0.00	44.48	74.00	-29.52	Horizontal	Average

802.11n(HT	20)				CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2310.00	13.78	28.05	6.62	0.00	48.45	74.00	-25.55	Vertical	Peak
2390.01	18.53	27.65	6.75	0.00	52.93	74.00	-21.07	Vertical	Peak
2310.00	13.98	28.05	6.62	0.00	48.65	74.00	-25.35	Horizontal	Peak
2390.01	18.00	27.65	6.75	0.00	52.40	74.00	-21.60	Horizontal	Peak
2310.00	10.62	28.05	6.62	0.00	45.29	54.00	-8.71	Vertical	Average
2390.01	16.47	27.65	6.75	0.00	50.87	54.00	-3.13	Vertical	Average
2310.00	10.60	28.05	6.62	0.00	45.27	54.00	-8.73	Horizontal	Average
2390.01	14.34	27.65	6.75	0.00	48.74	54.00	-5.26	Horizontal	Average

802.11n(HT	20)		CH11						
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.49	19.60	27.26	6.83	0.00	53.69	74.00	-20.31	Vertical	Peak
2500.00	13.50	27.20	6.84	0.00	47.54	74.00	-26.46	Vertical	Peak
2483.49	18.11	27.26	6.83	0.00	52.20	74.00	-21.80	Horizontal	Peak
2500.00	13.95	27.20	6.84	0.00	47.99	74.00	-26.01	Horizontal	Peak
2483.49	15.56	27.26	6.83	0.00	49.65	54.00	-4.35	Vertical	Average
2500.00	11.50	27.20	6.84	0.00	45.54	54.00	-8.46	Vertical	Average
2483.49	15.30	27.26	6.83	0.00	49.39	54.00	-4.61	Horizontal	Average
2500.00	10.56	27.20	6.84	0.00	44.60	54.00	-9.40	Horizontal	Average

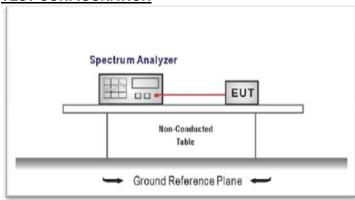
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### 5.7. Band Edge and Spurious Emissions (Conducted)

### **LIMIT**

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

#### **TEST CONFIGURATION**



### **TEST PROCEDURE**

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Establish a reference level by using the following procedure Center frequency=DTS channel center frequency

The span = 1.5 times the DTS bandwidth.

RBW = 100 kHz, VBW ≥ 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum PSD level

Note: the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement

Set the center frequency and span to encompass frequency range to be measured

RBW = 100 kHz, VBW  $\geq$  3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum amplitude level.

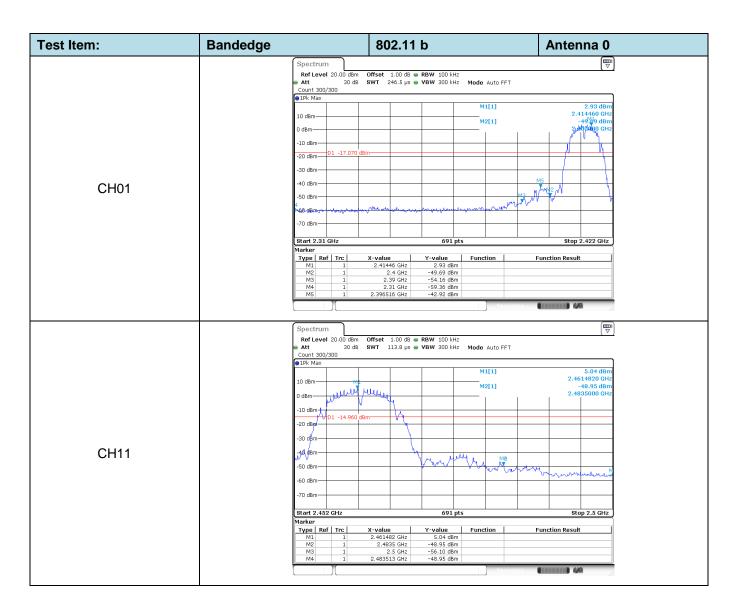
- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 5. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

#### **TEST MODE:**

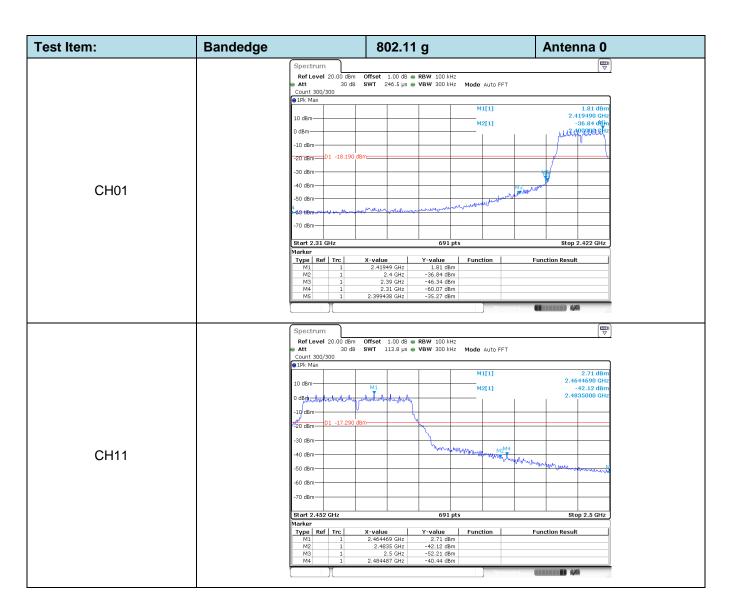
Please refer to the clause 3.3

### **TEST RESULTS**

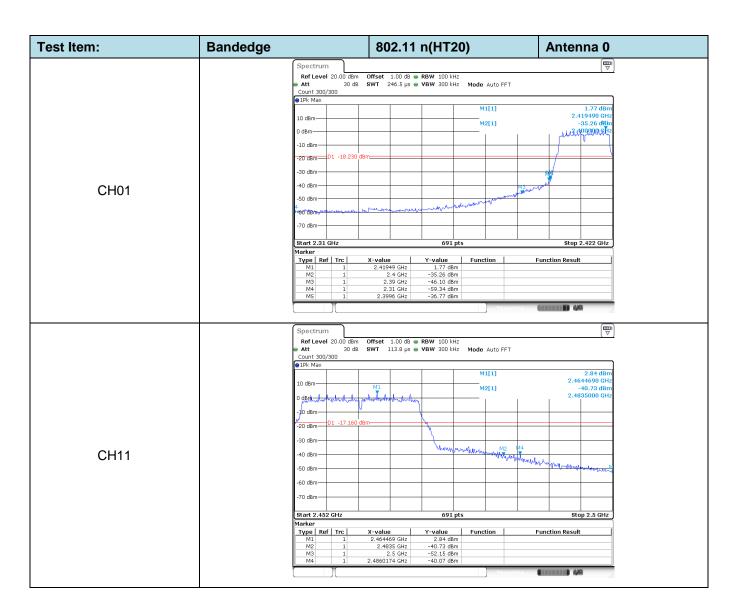
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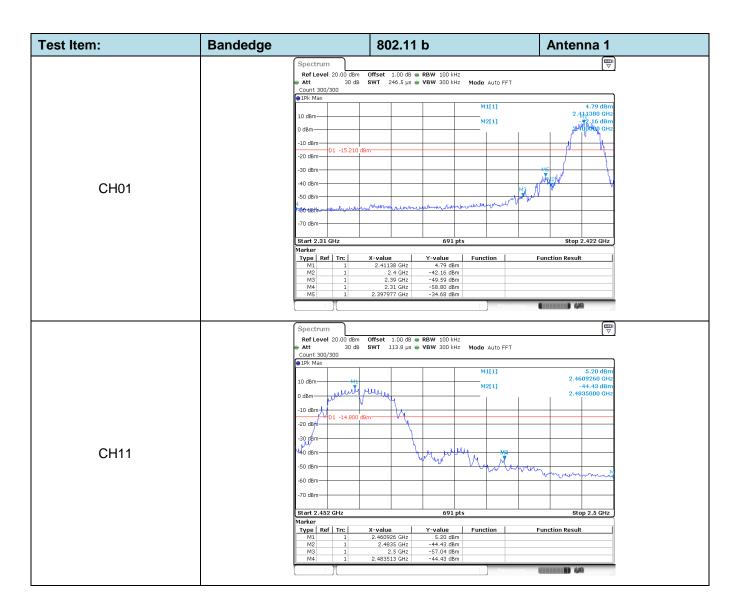
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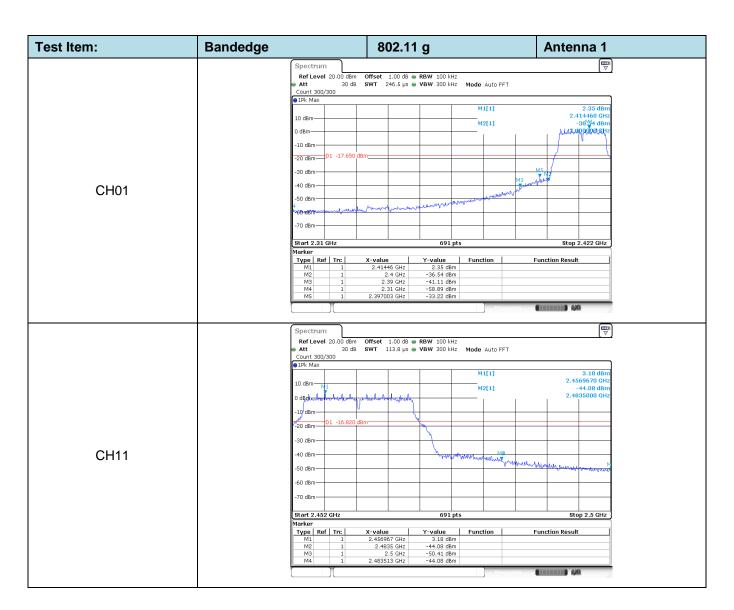
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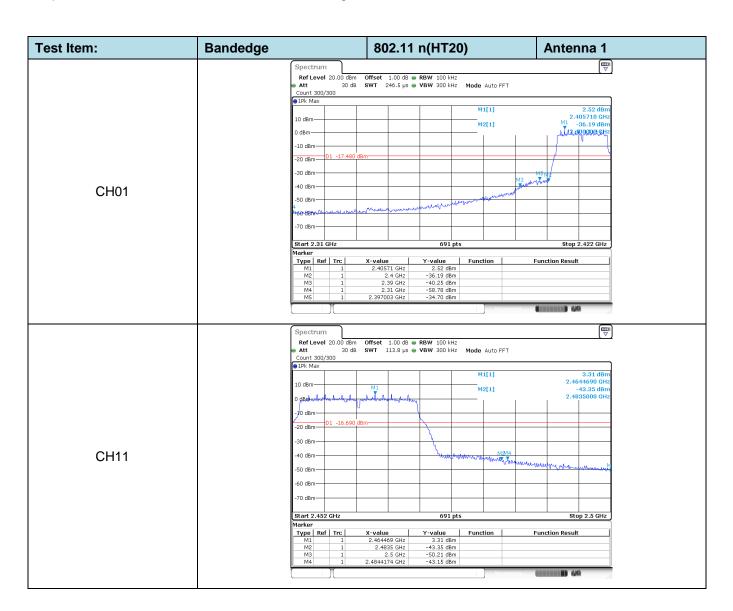
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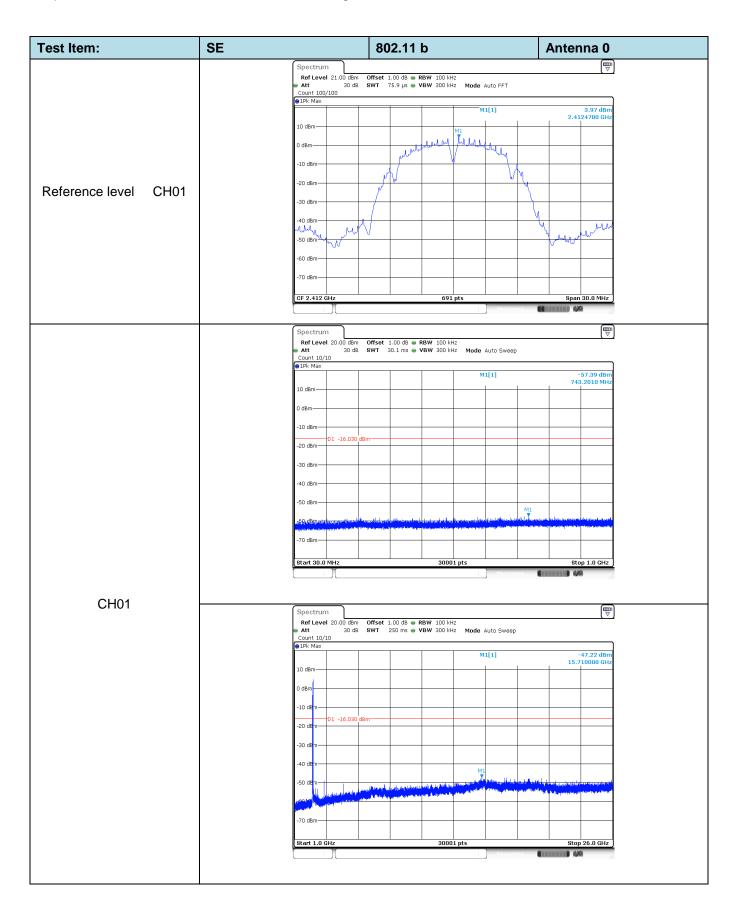
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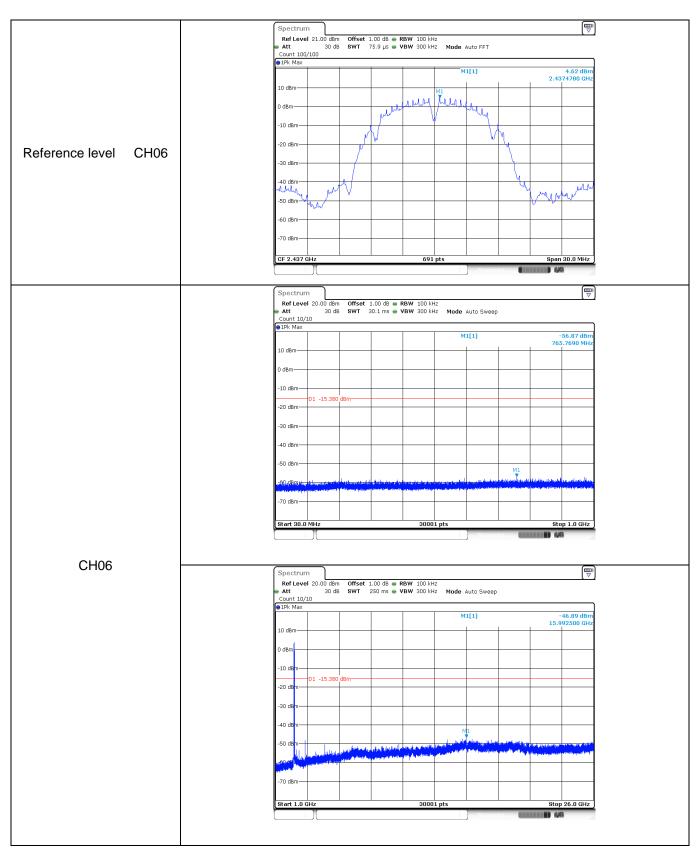
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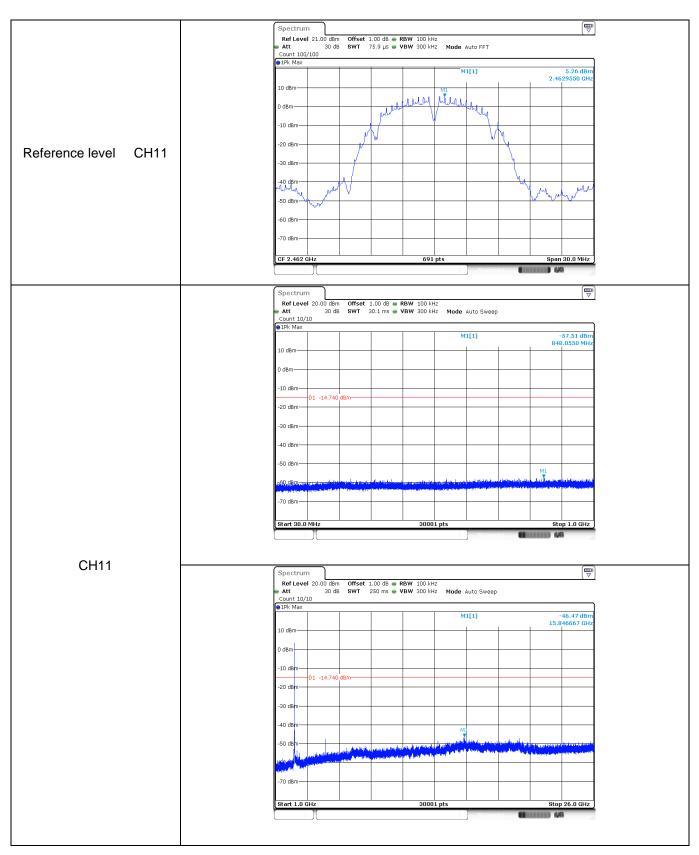
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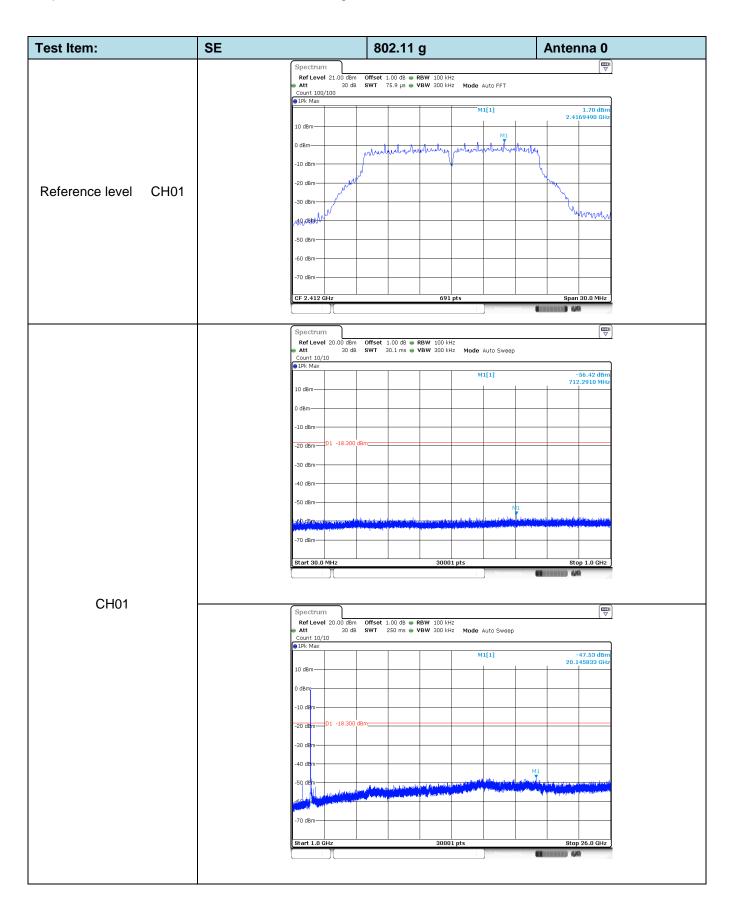
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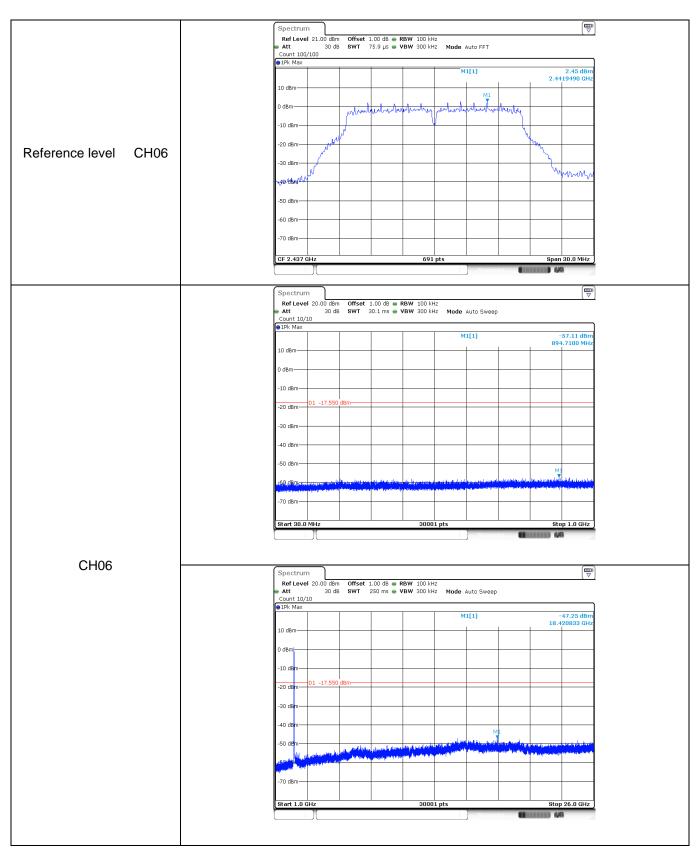
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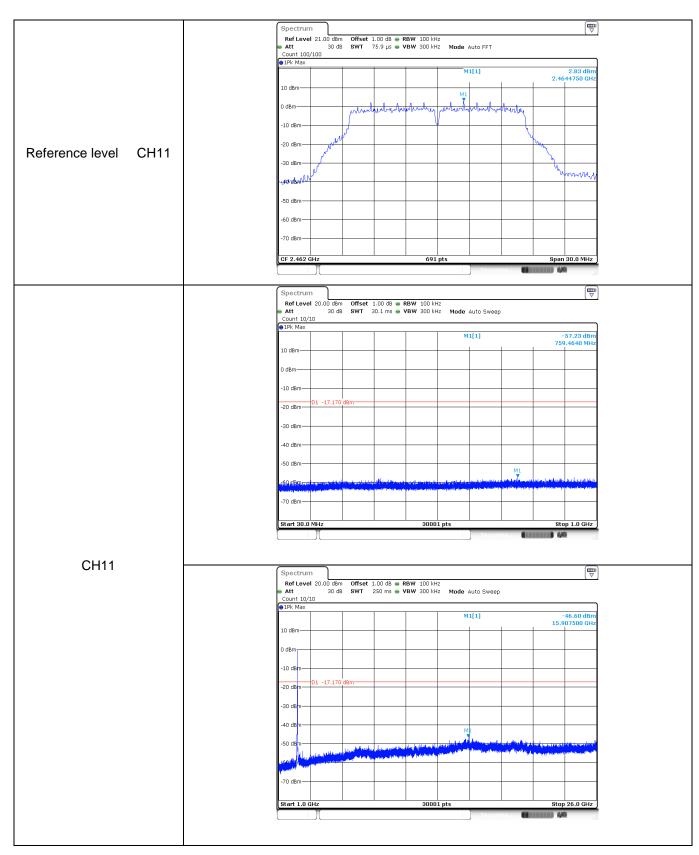
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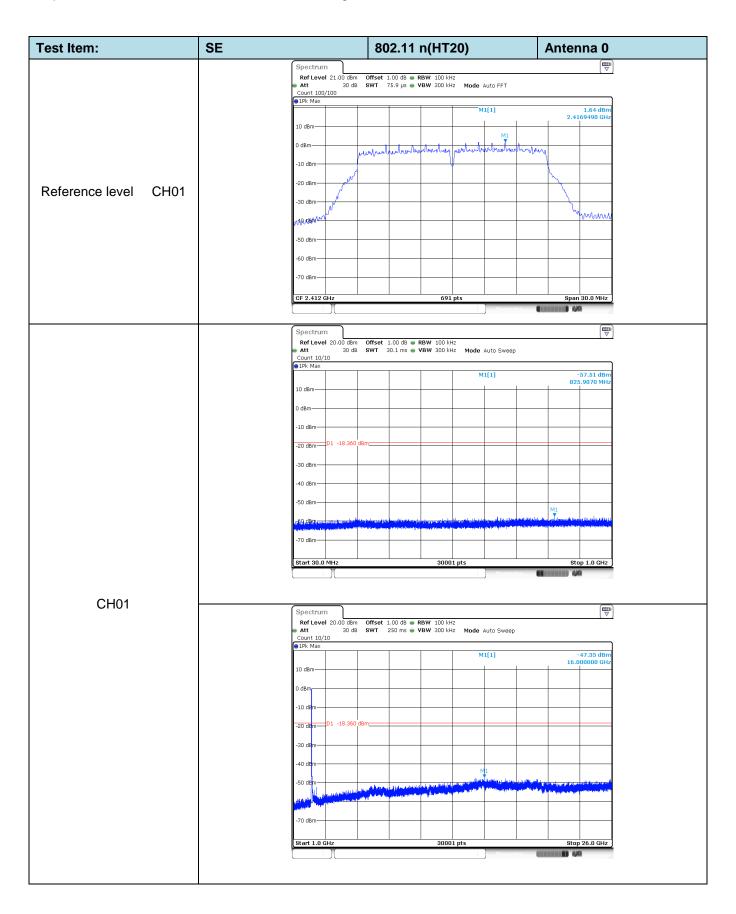
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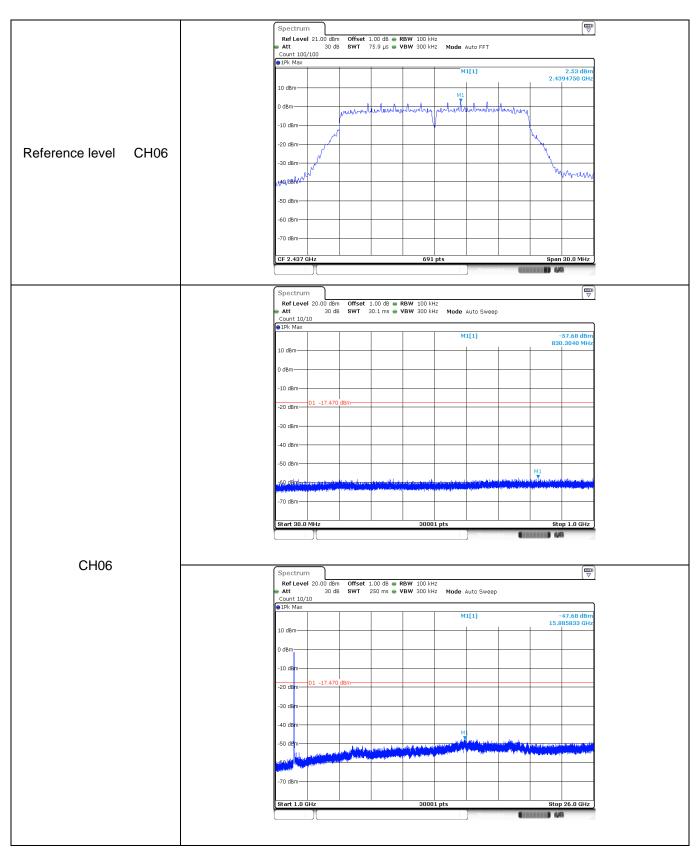
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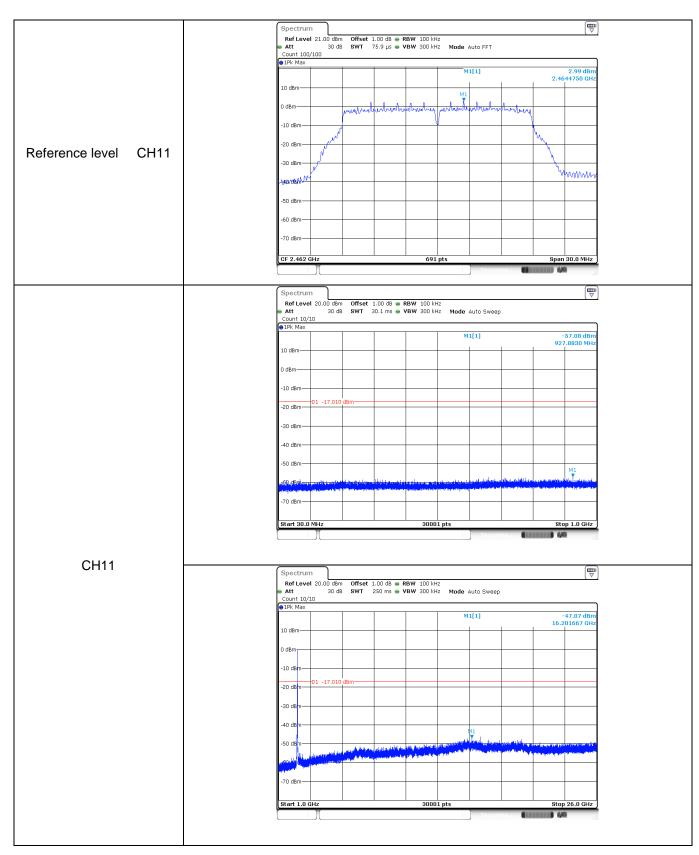
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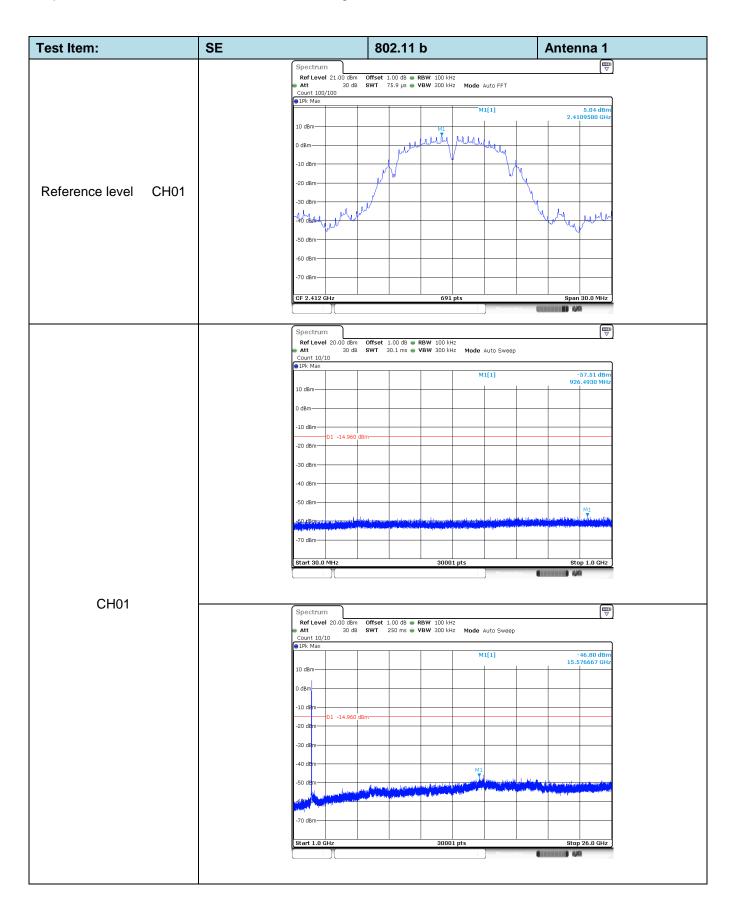
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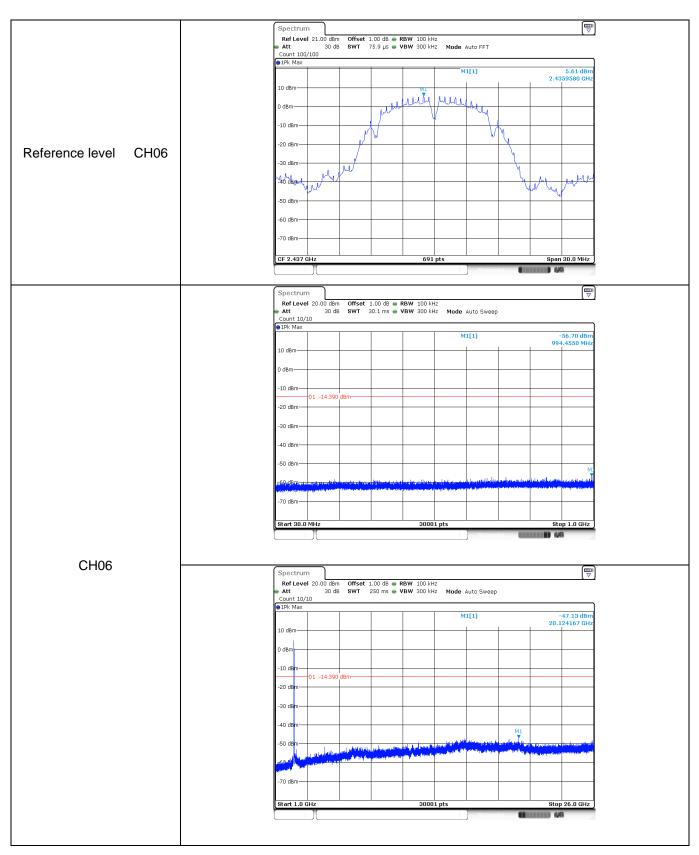
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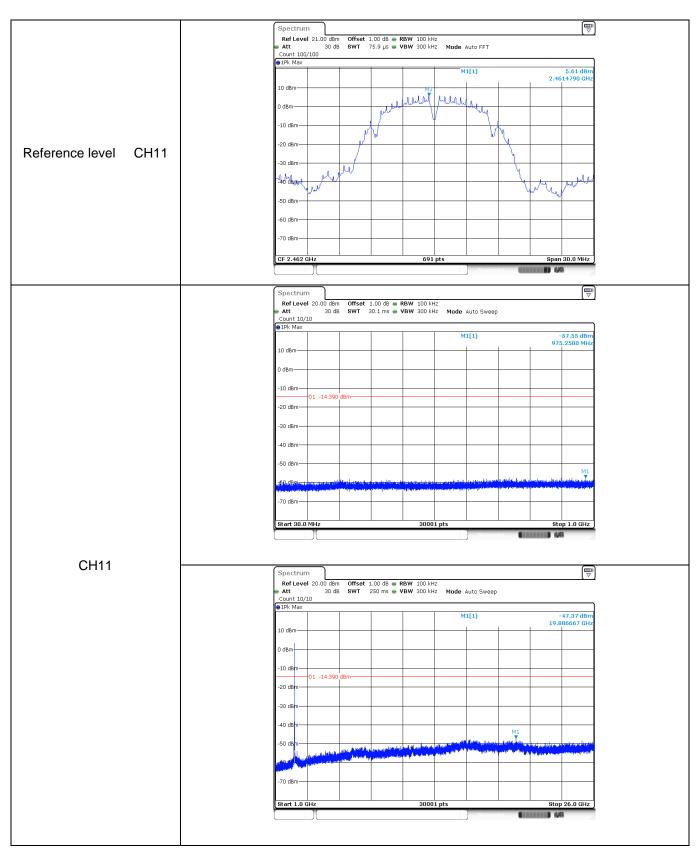
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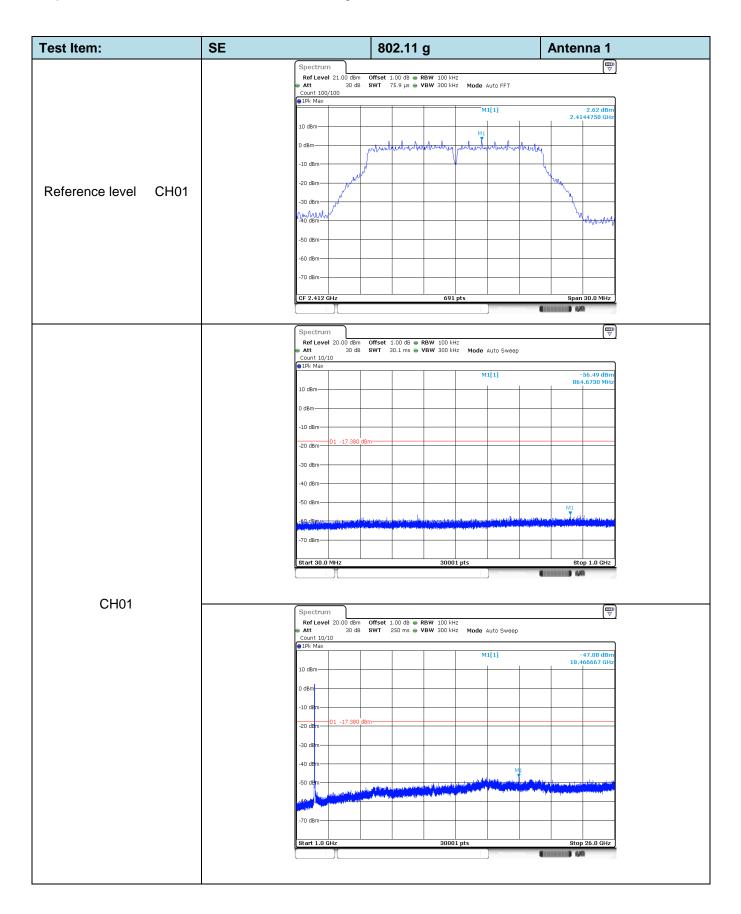
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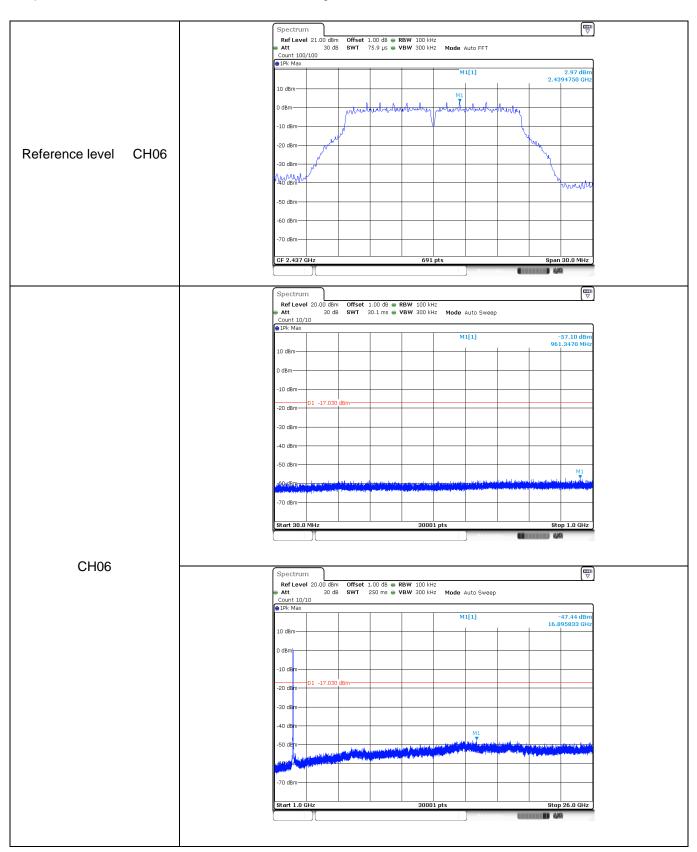
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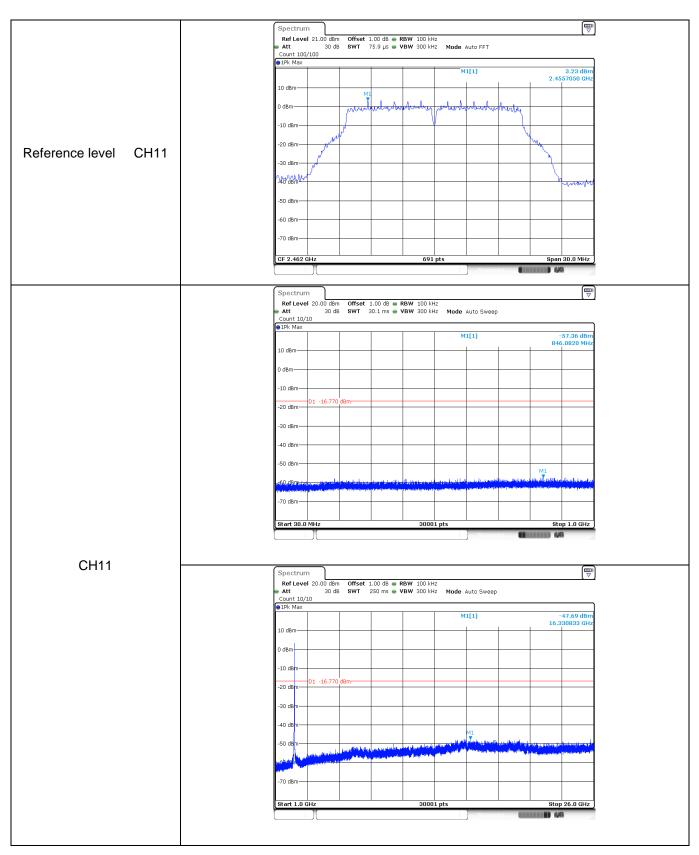
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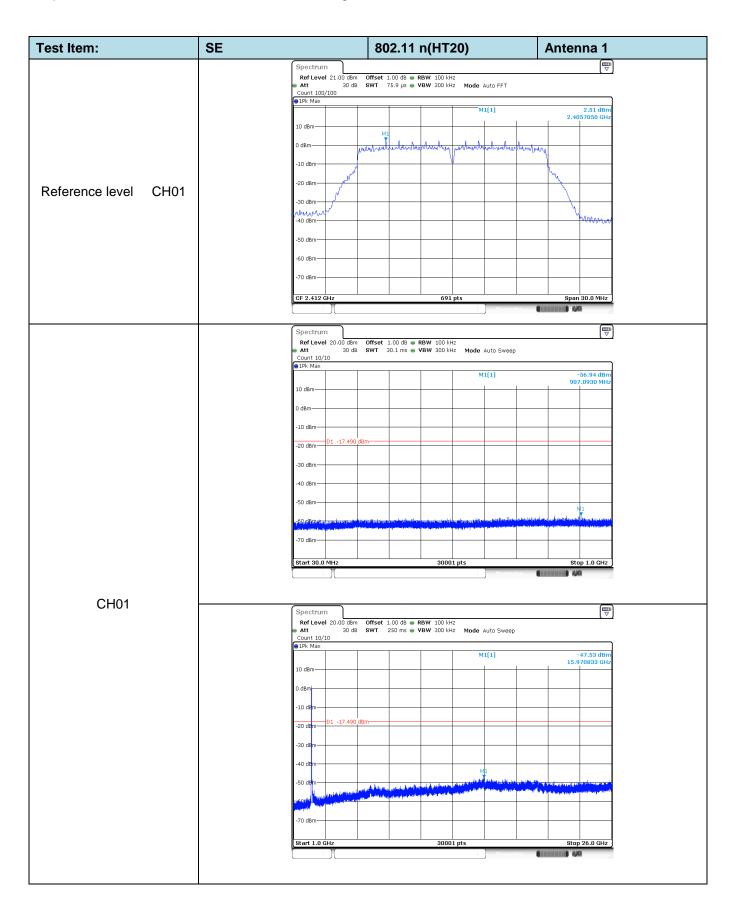
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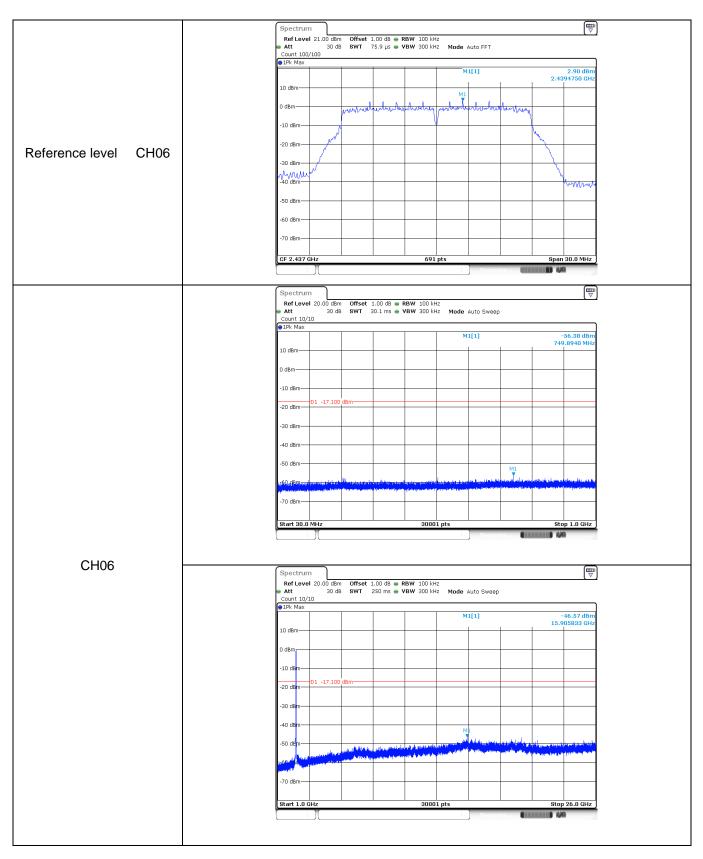
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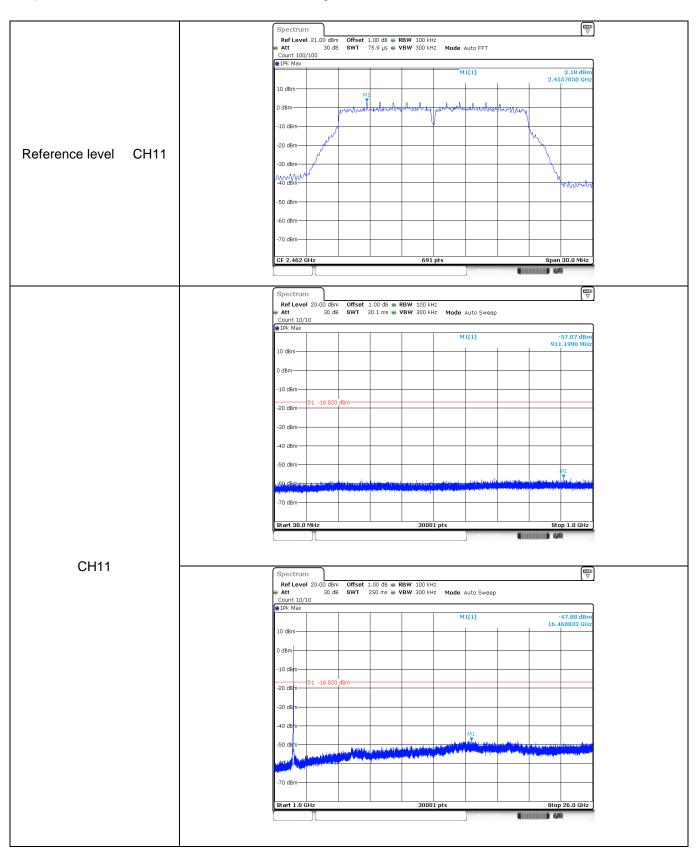
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# 5.8. Spurious Emissions (Radiated)

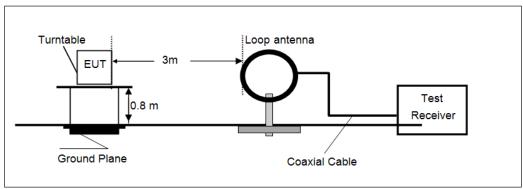
# **LIMIT**

FCC CFR Title 47 Part 15 Subpart C Section 15.209

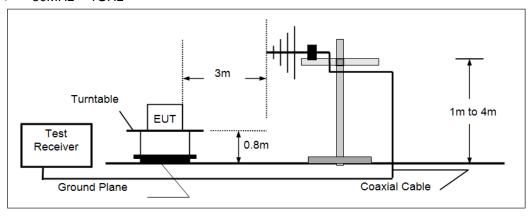
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above Toriz	74.00	Peak

# **TEST CONFIGURATION**

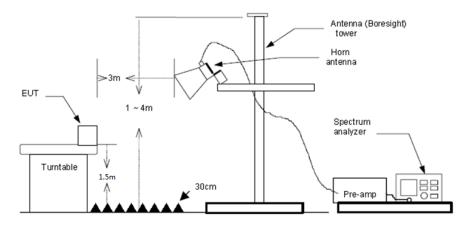
#### ➤ 9kHz ~30MHz



## ➤ 30MHz ~ 1GHz



## Above 1GHz



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#### **TEST PROCEDURE**

- 1. The EUT was tested according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
- 2. The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
- 5. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1GHz, RBW=120kHz, VBW=300kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
  - (3) Above 1GHz, RBW=1MHz, VBW=3MHz PEAK detector for Peak value. RBW=1MHz, VBW=3MHz RMS detector for Average value.

#### TEST MODE:

Please refer to the clause 3.3

## **TEST RESULTS**

⊠ Passed	☐ Not Applicable
<b>⊠</b> Passed	□ Not Applicable

#### Note:

- 1) Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2) The emission levels of other frequencies are very lower than the limit and not show in test report.

#### ➢ 9kHz ~ 30MHz

The EUT was pre-scanned the frequency band (9kHz~30MHz), found the radiated level lower than the limit, so don't show on the report.

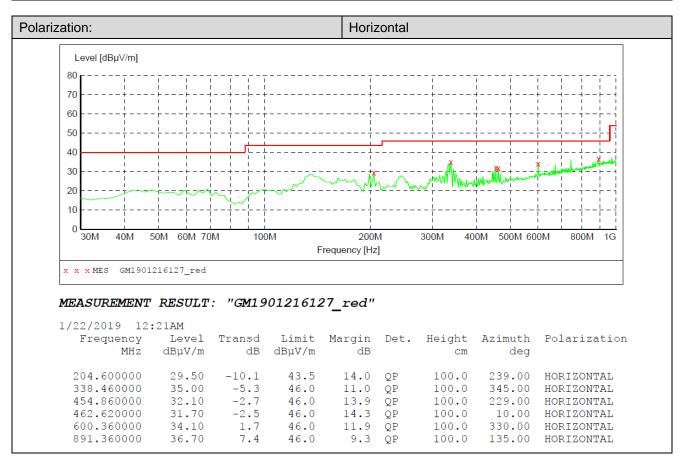
#### > 30MHz ~1000MHz

Have pre-scan all modulation mode and antennas, found the 802.11b mode CH01 for antenna 0 which it was worst case, so only the worst case's data on the test report.

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#### 30MHz ~ 1GHz

zation:				Verti	cal				
Level [dBµV/m]									
80									
				1		1			
70+	- + +	+ + 		+-		+	+	+	H - H
60				+			<del> </del>	+	
50							<u> </u>	1 1 1	
						I	1 1		
40	1 1		ж			<u>-</u>	<del> </del>	+	r - 1
30+	- <del>+</del> <del>+</del> - <del>x</del> -		<del>, /</del>	+*			+ <mark>*</mark> -+	Mary Harman March	H - H
20	$\sim$	Y \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u>^</u>		<u>\</u> \\\	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	w Menun	1 1 1	
20				<u>-</u>					
10÷				+:			<del> </del>	+	
	!!!	: : : :							
0				i		1	 	1 1 1	
0	50M 60M 70	DM 100		2001		300M 40	OM 500M 60	00M 800M	1G
0	50M 60M 70	DM 100		200ľ Frequency [Hz		300M 40	OM 500M 60	1 1 1 00M 800M	1G
0		)M 100				300M 40	OM 500M 60	00M 800M	1G
0 30M 40M		DM 100				300M 40	OM 500M 60	00M 800M	1G
0 30M 40M	1216126_red		F			300M 40	OM 500M 60	00M 800M	1G
0 30M 40M  x x x MES GM1903  MEASUREMENT	1216126_red		F	Frequency [Hz		300M 40	OM 500M 60	00M 800M	1G
0 30M 40M x x x MES GM1903 MEASUREMENT 1/22/2019 12	1216126_red ** <b>RESULT</b> :15AM	: "GM19	0121612	requency [Hz	[]				
0 30M 40M  x x x MES GM1903  MEASUREMENT  1/22/2019 12 Frequency	1216126_red  **RESULT** :15AM** Level	: "GM19	0121612	requency [Hz  26_red"  Margin		Height	Azimuth		
0 30M 40M x x x MES GM1903 MEASUREMENT 1/22/2019 12	1216126_red ** <b>RESULT</b> :15AM	: "GM19	0121612	requency [Hz	[]				
0 30M 40M  x x x MES GM1903  MEASUREMENT  1/22/2019 12 Frequency	1216126_red  **RESULT** :15AM** Level	: "GM19	0121612	requency [Hz  26_red"  Margin	[]	Height	Azimuth		ation
30M 40M  x x x MES GM1903  MEASUREMENT  1/22/2019 12 Frequency MHz	PRESULT: 15AM Level dBμV/m 29.00 30.20	: "GM19 Transd dB -9.5 -11.2	O121612  Limit dBµV/m	requency [Hz  26_red"  Margin dB	Det.	Height cm	Azimuth deg 0.00 162.00	Polariza	ation
0 30M 40M x x x MES GM190: MEASUREMENT 1/22/2019 12 Frequency MHz 41.640000	27 RESULT :15AM Level dBµV/m 29.00	: "GM19 Transd dB -9.5	0121612 Limit dBμV/m	26_red"  Margin dB	Det.	Height cm	Azimuth deg	Polariza VERTICAI	ation
0 30M 40M * * * MES GM190: **MEASUREMENT*  1/22/2019 12 Frequency MHz  41.640000 64.920000	PRESULT: 15AM Level dBμV/m 29.00 30.20	: "GM19 Transd dB -9.5 -11.2	0121612 Limit dBµV/m 40.0 40.0	Z6_red"  Margin dB  11.0 9.8	Det.  QP QP	Height cm 100.0 100.0	Azimuth deg 0.00 162.00	Polariza VERTICAI VERTICAI	ation
0 30M 40M * * * * MES GM190: **MEASUREMENT*  1/22/2019 12 Frequency MHz  41.640000 64.920000 136.700000	PRESULT: 15AM Level dBμV/m 29.00 30.20 39.60	: "GM19 Transd dB -9.5 -11.2 -13.5	0121612 Limit dBμV/m 40.0 40.0 43.5	Z6_red"  Margin dB  11.0 9.8 3.9	Det.  QP QP QP QP	Height cm 100.0 100.0 100.0	Azimuth deg 0.00 162.00 222.00	Polariza VERTICAI VERTICAI VERTICAI	ation



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#### > Above 1 GHz

802.11b					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1232.12	36.38	26.27	4.71	37.21	30.15	74.00	-43.85	Vertical	Peak
2987.92	43.69	28.59	7.47	37.58	42.17	74.00	-31.83	Vertical	Peak
4821.76	43.42	31.56	9.55	35.69	48.84	74.00	-25.16	Vertical	Peak
9111.35	31.84	38.25	13.42	33.21	50.30	74.00	-23.70	Vertical	Peak
1101.56	37.11	25.51	4.44	37.28	29.78	74.00	-44.22	Horizontal	Peak
2995.54	41.51	28.60	7.48	37.58	40.01	74.00	-33.99	Horizontal	Peak
4821.76	42.20	31.56	9.55	35.69	47.62	74.00	-26.38	Horizontal	Peak
9587.23	31.64	39.06	13.74	33.91	50.53	74.00	-23.47	Horizontal	Peak

802.11b					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1213.44	35.73	26.29	4.68	37.22	29.48	74.00	-44.52	Vertical	Peak
2987.92	41.65	28.59	7.47	37.58	40.13	74.00	-33.87	Vertical	Peak
4871.10	44.63	31.46	9.59	35.61	50.07	74.00	-23.93	Vertical	Peak
8593.22	31.94	37.27	12.89	32.93	49.17	74.00	-24.83	Vertical	Peak
1263.88	35.49	26.24	4.77	37.19	29.31	74.00	-44.69	Horizontal	Peak
2995.54	45.52	28.60	7.48	37.58	44.02	74.00	-29.98	Horizontal	Peak
4871.10	44.03	31.46	9.59	35.61	49.47	74.00	-24.53	Horizontal	Peak
8398.59	31.43	36.60	12.85	32.94	47.94	74.00	-26.06	Horizontal	Peak

802.11b					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1198.10	35.54	26.29	4.66	37.23	29.26	74.00	-44.74	Vertical	Peak
2995.54	44.92	28.60	7.48	37.58	43.42	74.00	-30.58	Vertical	Peak
4920.96	41.92	31.42	9.62	35.52	47.44	74.00	-26.56	Vertical	Peak
8187.50	31.29	36.74	12.74	33.01	47.76	74.00	-26.24	Vertical	Peak
1225.86	35.74	26.27	4.70	37.21	29.50	74.00	-44.50	Horizontal	Peak
2995.54	44.86	28.60	7.48	37.58	43.36	74.00	-30.64	Horizontal	Peak
4920.96	39.85	31.42	9.62	35.52	45.37	74.00	-28.63	Horizontal	Peak
7961.43	31.83	36.95	12.49	33.07	48.20	74.00	-25.80	Horizontal	Peak

#### Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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802.11g					CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1350.36	34.51	26.05	4.92	37.14	28.34	74.00	-45.66	Vertical	Peak
2987.92	42.34	28.59	7.47	37.58	40.82	74.00	-33.18	Vertical	Peak
4834.05	42.92	31.53	9.56	35.67	48.34	74.00	-25.66	Vertical	Peak
8104.56	31.10	36.99	12.55	33.04	47.60	74.00	-26.40	Vertical	Peak
1263.88	35.68	26.24	4.77	37.19	29.50	74.00	-44.50	Horizontal	Peak
2972.75	39.51	28.57	7.47	37.58	37.97	74.00	-36.03	Horizontal	Peak
4821.76	43.87	31.56	9.55	35.69	49.29	74.00	-24.71	Horizontal	Peak
8002.06	32.76	37.10	12.30	33.07	49.09	74.00	-24.91	Horizontal	Peak

802.11g					CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1617.86	35.09	24.95	5.60	37.21	28.43	74.00	-45.57	Vertical	Peak
2995.54	41.33	28.60	7.48	37.58	39.83	74.00	-34.17	Vertical	Peak
4883.52	44.07	31.43	9.59	35.58	49.51	74.00	-24.49	Vertical	Peak
9111.35	31.36	38.25	13.42	33.21	49.82	74.00	-24.18	Vertical	Peak
1235.26	35.90	26.26	4.72	37.20	29.68	74.00	-44.32	Horizontal	Peak
2987.92	45.22	28.59	7.47	37.58	43.70	74.00	-30.30	Horizontal	Peak
4883.52	43.81	31.43	9.59	35.58	49.25	74.00	-24.75	Horizontal	Peak
9611.66	31.65	39.07	13.73	33.93	50.52	74.00	-23.48	Horizontal	Peak

802.11g					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1685.12	35.79	25.16	5.74	37.28	29.41	74.00	-44.59	Vertical	Peak
2995.54	44.91	28.60	7.48	37.58	43.41	74.00	-30.59	Vertical	Peak
4920.96	41.30	31.42	9.62	35.52	46.82	74.00	-27.18	Vertical	Peak
9611.66	31.88	39.07	13.73	33.93	50.75	74.00	-23.25	Vertical	Peak
1340.09	34.99	26.08	4.90	37.15	28.82	74.00	-45.18	Horizontal	Peak
2987.92	45.69	28.59	7.47	37.58	44.17	74.00	-29.83	Horizontal	Peak
4933.50	39.50	31.43	9.63	35.50	45.06	74.00	-28.94	Horizontal	Peak
7527.83	31.53	36.13	12.49	33.02	47.13	74.00	-26.87	Horizontal	Peak

## Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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802.11n(HT	20)				CH01				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1144.44	36.13	25.86	4.53	37.26	29.26	74.00	-44.74	Vertical	Peak
2995.54	42.37	28.60	7.48	37.58	40.87	74.00	-33.13	Vertical	Peak
4834.05	44.75	31.53	9.56	35.67	50.17	74.00	-23.83	Vertical	Peak
7245.81	33.10	36.25	11.91	33.45	47.81	74.00	-26.19	Vertical	Peak
1207.28	35.74	26.29	4.67	37.22	29.48	74.00	-44.52	Horizontal	Peak
2987.92	45.62	28.59	7.47	37.58	44.10	74.00	-29.90	Horizontal	Peak
4809.50	43.61	31.58	9.55	35.72	49.02	74.00	-24.98	Horizontal	Peak
7245.81	33.79	36.25	11.91	33.45	48.50	74.00	-25.50	Horizontal	Peak

802.11n(HT	20)				CH06				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1549.34	35.52	25.35	5.43	37.13	29.17	74.00	-44.83	Vertical	Peak
2995.54	43.91	28.60	7.48	37.58	42.41	74.00	-31.59	Vertical	Peak
4883.52	44.15	31.43	9.59	35.58	49.59	74.00	-24.41	Vertical	Peak
9251.58	31.32	38.91	13.55	33.44	50.34	74.00	-23.66	Vertical	Peak
1495.10	34.52	25.80	5.27	37.07	28.52	74.00	-45.48	Horizontal	Peak
2995.54	45.38	28.60	7.48	37.58	43.88	74.00	-30.12	Horizontal	Peak
4883.52	43.46	31.43	9.59	35.58	48.90	74.00	-25.10	Horizontal	Peak
7319.96	32.52	36.30	11.99	33.32	47.49	74.00	-26.51	Horizontal	Peak

802.11n(HT	20)				CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
1251.08	35.29	26.25	4.75	37.20	29.09	74.00	-44.91	Vertical	Peak
2972.75	38.32	28.57	7.47	37.58	36.78	74.00	-37.22	Vertical	Peak
4920.96	45.38	31.42	9.62	35.52	50.90	74.00	-23.10	Vertical	Peak
9134.58	31.31	38.34	13.44	33.25	49.84	74.00	-24.16	Vertical	Peak
1406.50	34.17	25.89	5.02	37.11	27.97	74.00	-46.03	Horizontal	Peak
2995.54	41.84	28.60	7.48	37.58	40.34	74.00	-33.66	Horizontal	Peak
4933.50	42.82	31.43	9.63	35.50	48.38	74.00	-25.62	Horizontal	Peak
7394.88	32.03	36.30	12.06	33.20	47.19	74.00	-26.81	Horizontal	Peak

## Remark:

- 1. Final Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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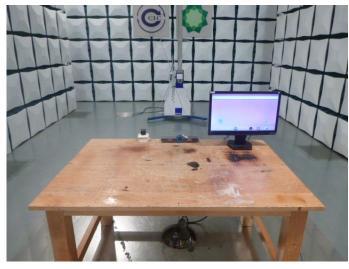
# 6. TEST SETUP PHOTOS

# **Conducted Emissions**

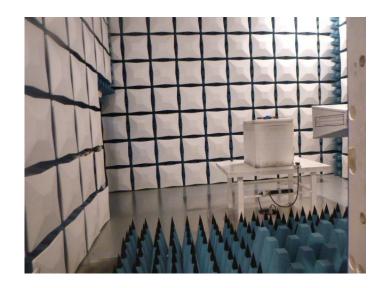


# Radiated Emissions





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# 7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No.: CHTEW19010122.