




# TEST REPORT

Report Reference No. .... : CHTEW19110025 Report verification: 

Project No. .... : SHT1908014005EW

FCC ID. .... : 2ATTZ-SUNBEAM-F1

Applicant's name .... : Basic, Inc.

Address .... : 17688 County Road 558, Memphis, Missouri, 63555, United States

Test item description .... : Basic Feature Phone

Trade Mark .... : Sunbeam

Model/Type reference .... : F1

Listed Model(s) .... : -

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

Date of receipt of test sample .... : Jan. 30, 2023

Date of testing .... : Jan. 31, 2023- Feb. 09, 2023

Date of issue .... : Feb. 10, 2023

Result .... : PASS

Compiled by  
( position+printedname+signature).... : File administrators Silvia Li

Supervised by  
(position+printedname+signature).... : Project Engineer Caspar Chen

Approved by  
(position+printedname+signature).... : RF Manager Hans Hu

*Silvia Li*

*Caspar Chen*

*Hans Hu*

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

Address .... : 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road,  
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:

[FCC Rules Part 15.247](#): 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

[KDB 558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

### 1.2. Report version

Revision No.	Date of issue	Description
N/A	2019-11-05	Original
R1	2023-02-10	Updated address, battery, PCB board, updated USB port, antenna shape and adapter changed, make difference test on Conducted Emissions, Restricted band (radiated) and Radiated Spurious Emission, based on report No. CHTEW19110025

## 2. TEST DESCRIPTION

Test Item	FCC Rule	Result	Test Engineer
Antenna requirement	15.203/15.247(c)	PASS	Kang Yang
Line Conducted Emissions (AC Main)	15.207	PASS	Kang Yang
Conducted Peak Output Power	15.247(b)(3)	PASS	JiongSheng.Feng
Power Spectral Density	15.247(e)	PASS	JiongSheng.Feng
6dB Bandwidth	15.247(a)(2)	PASS	JiongSheng.Feng
Restricted band	15.247(d)/15.205	PASS	Xu Yang
Spurious Emissions	15.247(d)/15.209	PASS	Xu Yang

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

### 3. SUMMARY

#### 3.1. Client Information

Applicant:	Basic, Inc.
Address:	17688 County Road 558, Memphis, Missouri, 63555, United States
Manufacturer:	Basic, Inc.
Address:	17688 County Road 558, Memphis, Missouri, 63555, United States

#### 3.2. Product Description

Name of EUT:	Basic Feature Phone
Trade Mark:	Sunbeam
Model No.:	F1
Listed Model(s):	-
IMEI:	Conducted: 359863101000287 Radiated: 359863101000163
Power supply:	DC 3.8V
Adapter information:	Model: EE-0501500 Input: 100-240V a.c., 50/60Hz, 0.5A Output: 5.0V d.c., 1.5A
Hardware version:	QS3912_MAINPCB_V1.0
Software version:	Sunbeam_F1V_V1.0
<b>WIFI</b>	
Supported type:	802.11b/802.11g/802.11n(HT20)/802.11n(HT40)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40)
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz for 802.11n(HT40)
Channel number:	11 for 802.11b/802.11g/802.11n(HT20) 7 for 802.11n(HT40)
Channel separation:	5MHz
Antenna type:	FPC Antenna
Antenna gain:	-0.76dBi

### 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)		802.11n(HT40)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	01	-
02	2417	02	-
03	2422	03	2422
04	2427	04	2427
05	2432	05	2432
06	2437	06	2437
07	2442	07	2442
08	2447	08	2447
09	2452	09	2452
10	2457	10	-
11	2462	11	-

#### ➤ Test mode

For RF 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 Radiated suprious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit(duty cycle>98%). The 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
- - supplied by the lab

○	/	Manufacturer:	/
		Model No.:	/
○	/	Manufacturer:	/
		Model No.:	/

### 3.5. Modifications

No modifications were implemented to meet testing criteria.

## 4. TEST ENVIRONMENT

### 4.1. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China	
Connect information:	Tel: 86-755-26715499 E-mail: <a href="mailto:cs@szhtw.com.cn">cs@szhtw.com.cn</a> <a href="http://www.szhtw.com.cn">http://www.szhtw.com.cn</a>	
Qualifications	Type	Accreditation Number
	FCC	762235

### 4.2. 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

### 4.3. 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	0.51 dB	(1)
Conducted spurious emissions 9kHz~40GHz	0.51 dB	(1)
Conducted Disturbance 150kHz~30MHz	3.02 dB	(1)
Radiated Emissions below 1GHz	4.54dB for 30MHz-1GHz	(1)
Radiated Emissions above 1GHz	5.10dB for above 1GHz	(1)
Occupied Bandwidth	70 Hz	(1)

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

#### 4.4. Equipments Used during the Test

##### ● Conducted Emission

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2019/10/26	2020/10/25
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2019/10/23	2020/10/22
●	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2019/10/23	2020/10/22
●	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLEX_142	EF-NM-BNCM-2M	2019/10/23	2020/10/22
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

##### ● Radiated emission-6th test site

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2023/09/29
●	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2022/08/30	2023/08/29
●	Loop Antenna	R&S	HTWE0546	HFH2-Z2E	101073	2021/05/25	2024/05/24
●	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0547	VULB9163	945	2022/05/23	2025/05/22
●	Pre-Amplifier	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2022/11/04	2023/11/03
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2022/02/25	2023/02/24
●	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

##### ● Radiated emission-7th test site

Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2018/09/27	2023/09/26
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2022/08/25	2023/08/24
●	Horn Antenna	ETS	HTWE0548	3117	240120	2022/05/20	2025/05/19
●	Horn Antenna	STEATITE	HTWE0549	QMS-00880	25661	2022/05/20	2025/05/19
●	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2022/11/04	2023/11/03
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2022/02/28	2023/02/27
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
●	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
●	Test Software	Audix	N/A	E3	N/A	N/A	N/A

**● RF Conducted Method**

Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	FSV40	100048	2019/10/26	2020/10/25
●	Spectrum Analyzer	Agilent	N9020A	MY50510187	2019/10/26	2020/10/25
●	Test software	Tonscend	JS1120-2(WIFI)	N/A	N/A	N/A

## 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 an antenna 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.

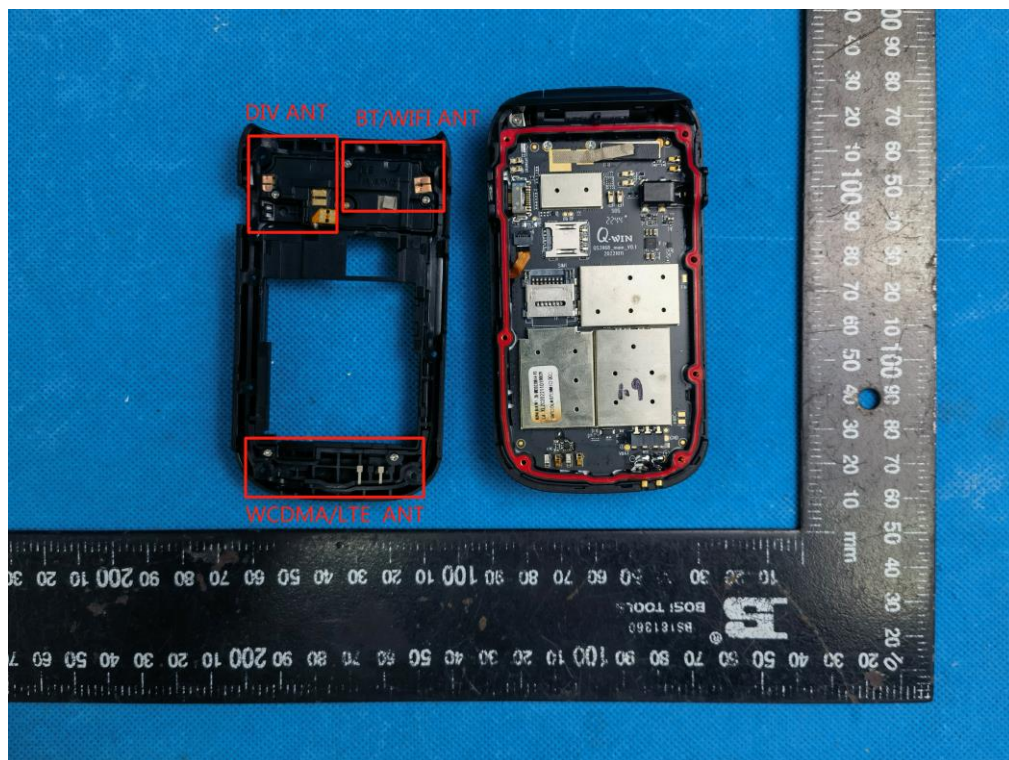
#### **FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):**

(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

☒ Passed      ☐ Not Applicable

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



## 5.2. Conducted Emissions (AC Main)

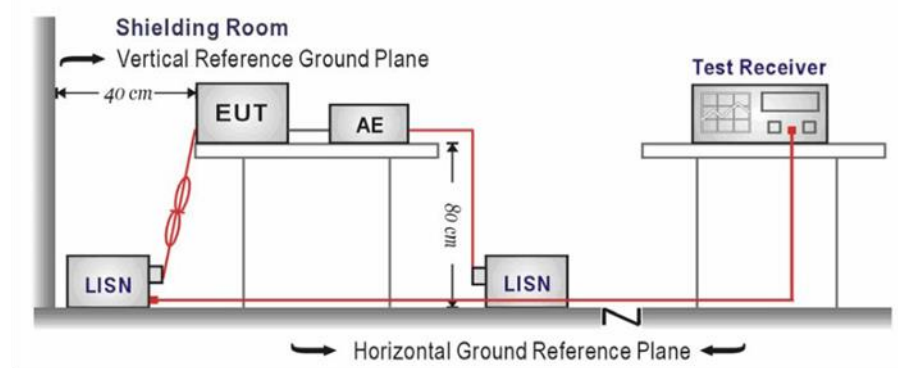
### LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207:

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

\* 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.
7. 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

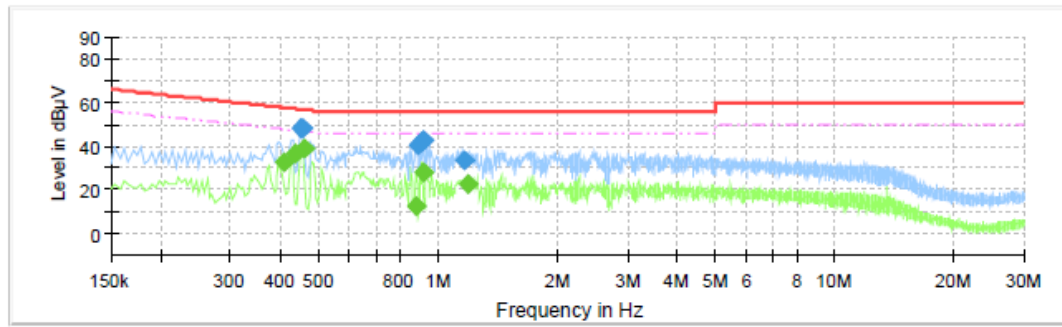
☒ Passed ☐ Not Applicable

Note:

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

Test Line:

L

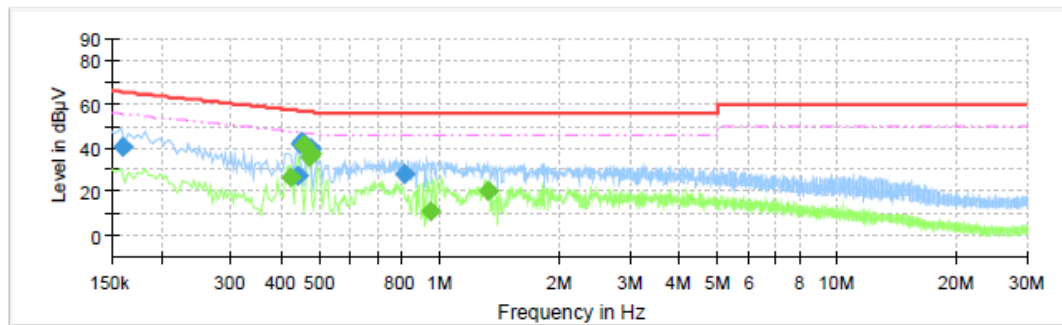


### Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.407500	---	32.36	47.70	15.34	L1	10.2
0.435500	---	36.54	47.15	10.61	L1	10.2
0.452500	48.51	---	56.83	8.32	L1	10.2
0.455500	48.47	---	56.77	8.30	L1	10.2
0.459500	---	38.90	46.70	7.80	L1	10.2
0.876500	---	12.42	46.00	33.58	L1	10.3
0.891500	40.71	---	56.00	15.29	L1	10.3
0.911500	41.75	---	56.00	14.25	L1	10.3
0.915500	42.57	---	56.00	13.43	L1	10.3
0.919500	---	27.88	46.00	18.12	L1	10.3
1.159500	33.35	---	56.00	22.65	L1	10.3
1.187500	---	22.32	46.00	23.68	L1	10.3

Test Line:

N

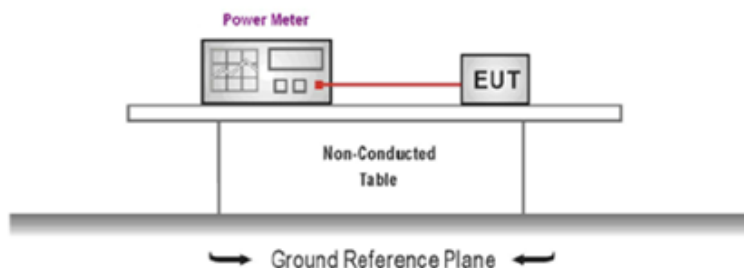


### Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.159500	40.09	---	65.49	25.40	N	10.2
0.423500	---	26.27	47.38	21.11	N	10.2
0.440500	27.26	---	57.05	29.79	N	10.2
0.447500	42.05	---	56.92	14.87	N	10.2
0.451500	42.73	---	56.85	14.11	N	10.2
0.455500	---	41.05	46.77	5.72	N	10.2
0.471500	---	35.37	46.49	11.11	N	10.2
0.475500	39.94	---	56.42	16.47	N	10.2
0.475500	---	37.19	46.42	9.23	N	10.2
0.815500	28.30	---	56.00	27.70	N	10.2
0.947500	---	11.25	46.00	34.75	N	10.3
1.323500	---	20.59	46.00	25.41	N	10.3

**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**

1. 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**
☒ **Passed**
☐ **Not Applicable**

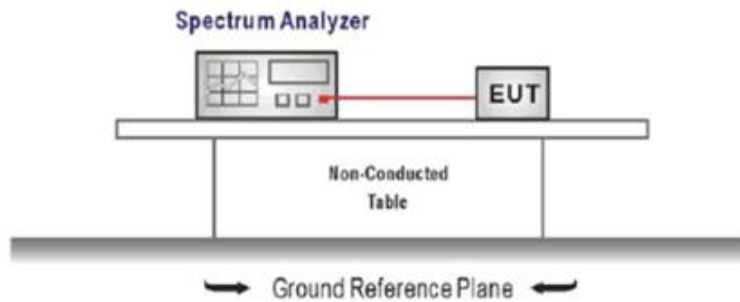
Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	15.78	12.43	≤30.00	Pass
	06	16.12	14.26		
	11	16.05	14.07		
802.11g	01	20.06	17.34	≤30.00	Pass
	06	19.01	16.71		
	11	20.01	17.46		
802.11n(HT20)	01	19.74	16.82	≤30.00	Pass
	06	19.09	16.39		
	11	18.94	15.66		
802.11n(HT40)	03	19.57	16.14	≤30.00	Pass
	06	19.13	15.97		
	09	20.64	16.85		

## 5.4. Power Spectral Density

### LIMIT

**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,
2. Configure the spectrum analyzer as shown below:  
Center frequency=DTS channel center frequency  
Span =1.5 times the DTS bandwidth  
 $RBW = 3 \text{ kHz} \leq RBW \leq 100 \text{ kHz}$ ,  $VBW \geq 3 \times RBW$   
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:

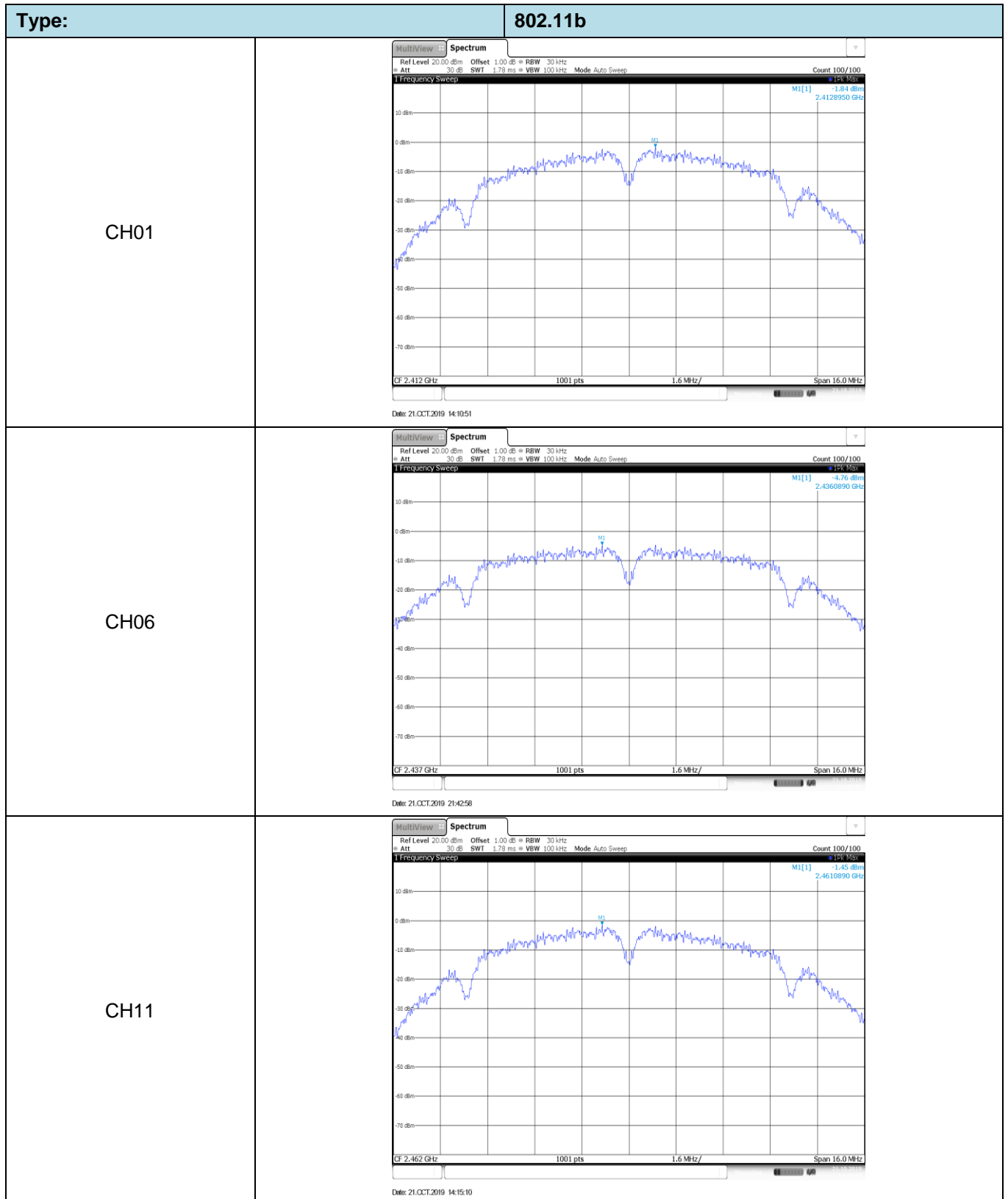
Please refer to the clause 3.3

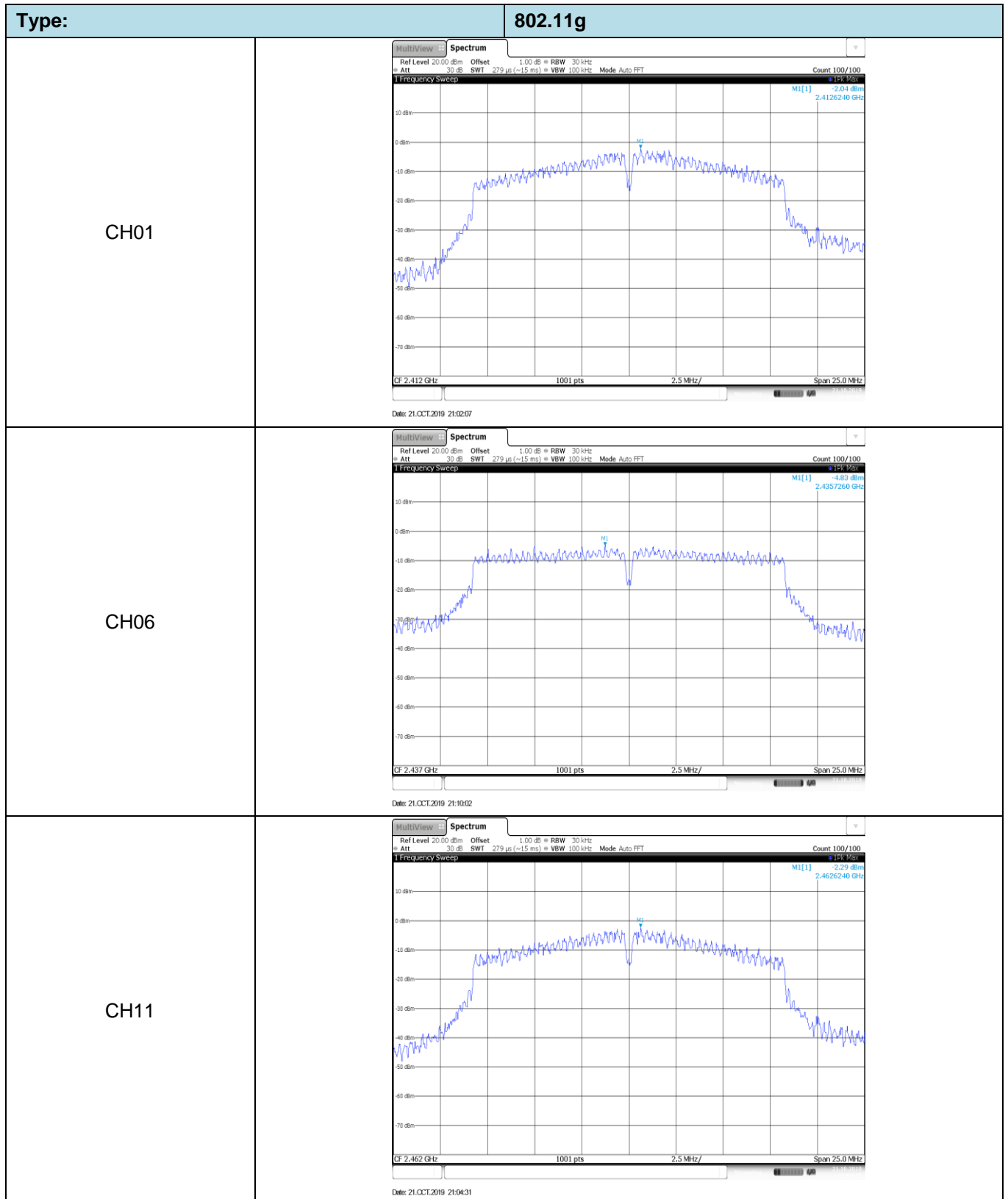
### TEST RESULTS

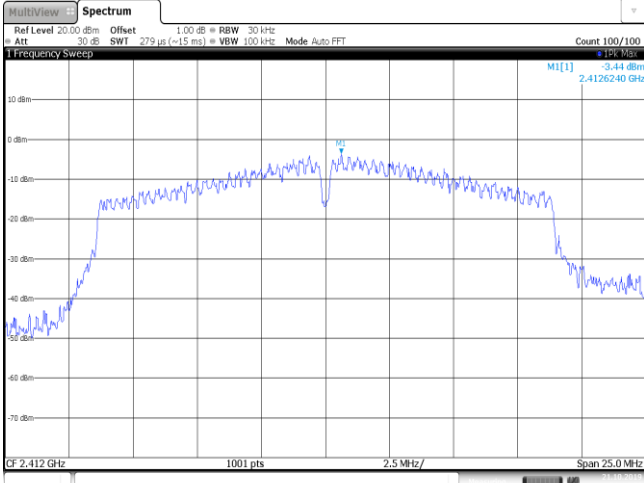
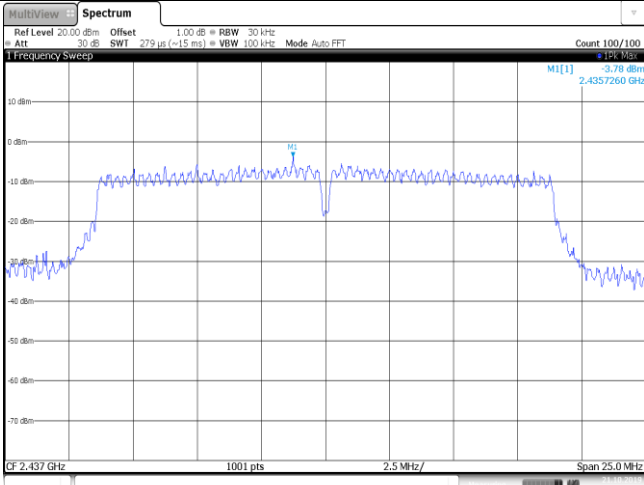
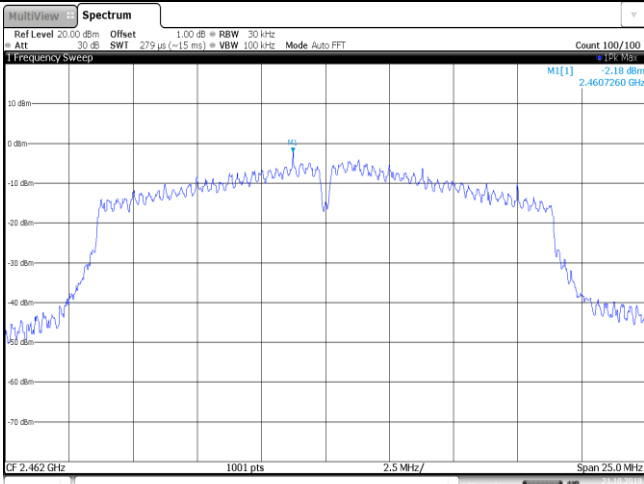
☒ Passed ☐ Not Applicable

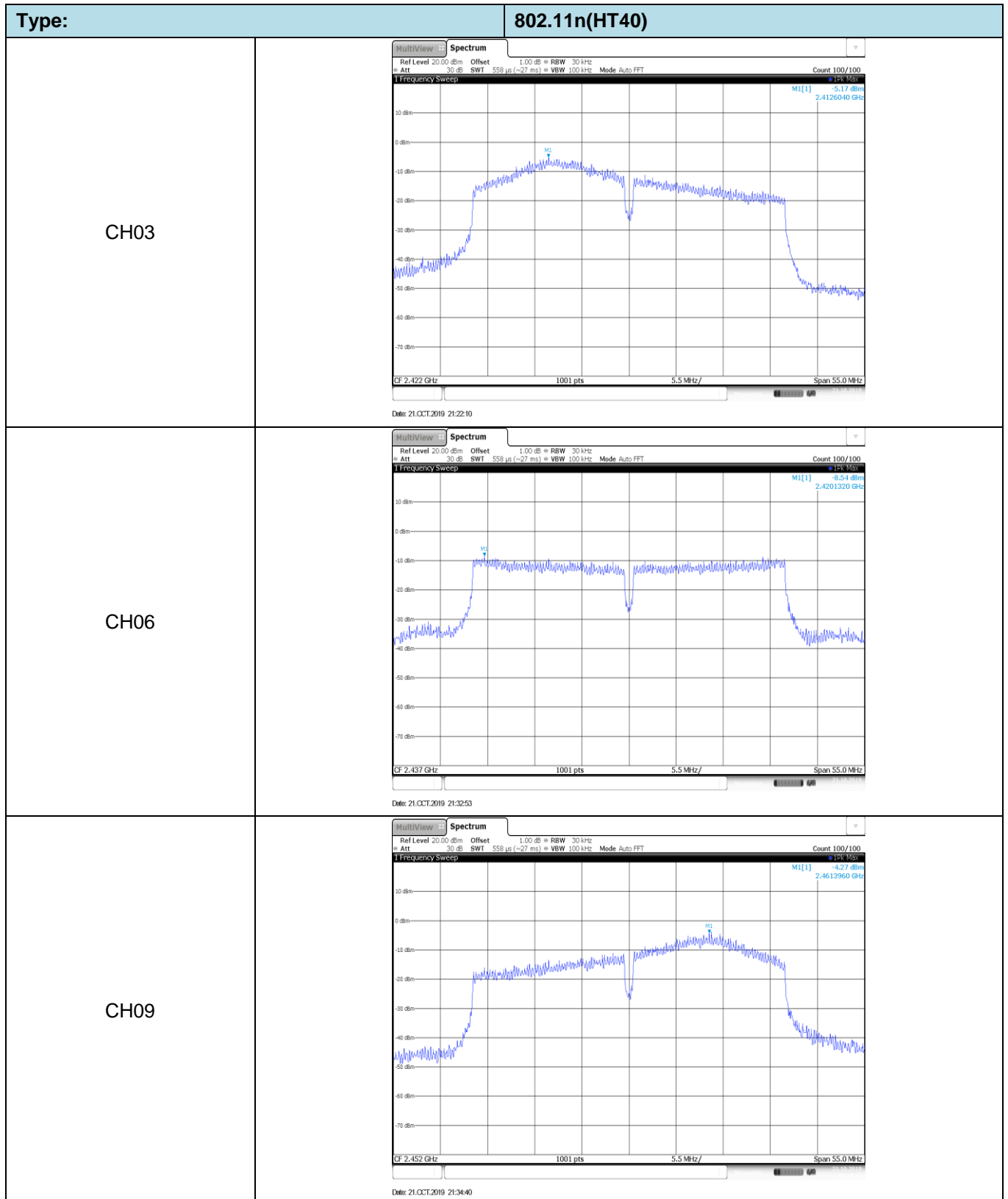
Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-1.84	≤8.00	Pass
	06	-4.76		
	11	-1.45		
802.11g	01	-2.04	≤8.00	Pass
	06	-4.83		
	11	-2.29		
802.11n(HT20)	01	-3.44	≤8.00	Pass
	06	-3.78		
	11	-2.18		
802.11n(HT40)	03	-5.17	≤8.00	Pass
	06	-8.54		
	09	-4.27		

Test plot as follows:





Type:	802.11n(HT20)
CH01	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 <math>\mu</math>s (~1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>Frequency Sweep</p> <p>M1[1] 2.4126240 GHz</p> <p>GF 2.412 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz</p> <p>Date: 21.OCT.2019 21:14:31</p>
CH06	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 <math>\mu</math>s (~1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>Frequency Sweep</p> <p>M1[1] 2.437260 GHz</p> <p>GF 2.437 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz</p> <p>Date: 21.OCT.2019 21:18:09</p>
CH11	 <p>Ref Level 20.00 dBm Offset 1.00 dB BW 30 kHz Att 30 dB SWI 279 <math>\mu</math>s (~1.5 ms) VBW 100 kHz Mode Auto FFT Count 100/100</p> <p>Frequency Sweep</p> <p>M1[1] 2.4607260 GHz</p> <p>GF 2.462 GHz 1001 pts 2.5 MHz/ Span 25.0 MHz</p> <p>Date: 21.OCT.2019 21:20:16</p>



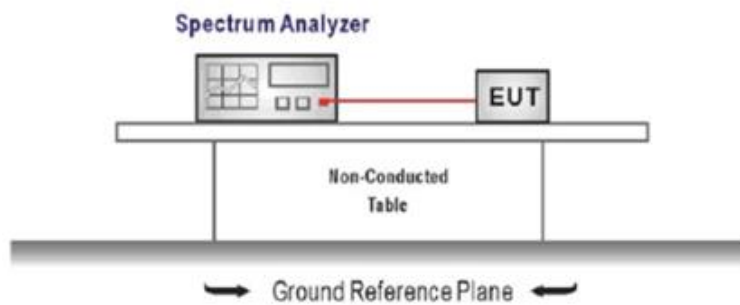
## 5.5. 6dB bandwidth

### 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.
2. 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  $\geq 3 \times$  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

☒ Passed      ☐ Not Applicable

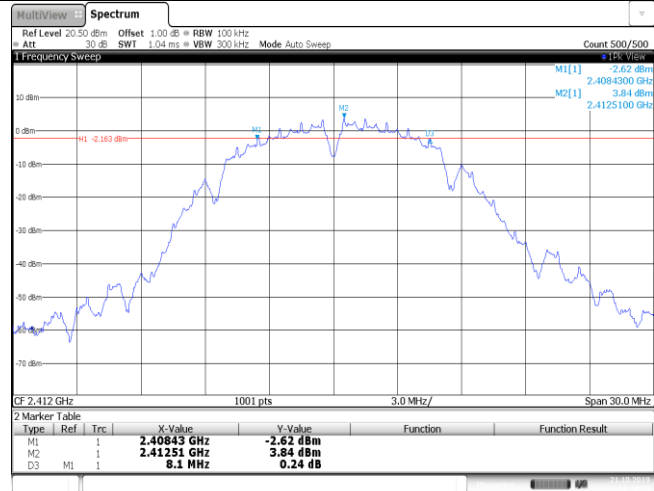
Type	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	8.10	≥500	Pass
	06	10.11		
	11	7.17		
802.11g	01	10.47	≥500	Pass
	06	16.53		
	11	10.89		
802.11n(HT20)	01	9.84	≥500	Pass
	06	17.70		
	11	10.14		
802.11n(HT40)	03	14.22	≥500	Pass
	06	36.66		
	09	14.16		

Test plot as follows:

Type:

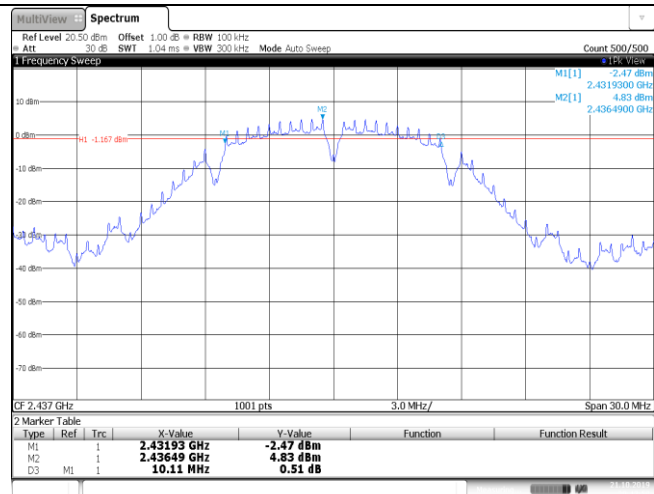
802.11b

CH01



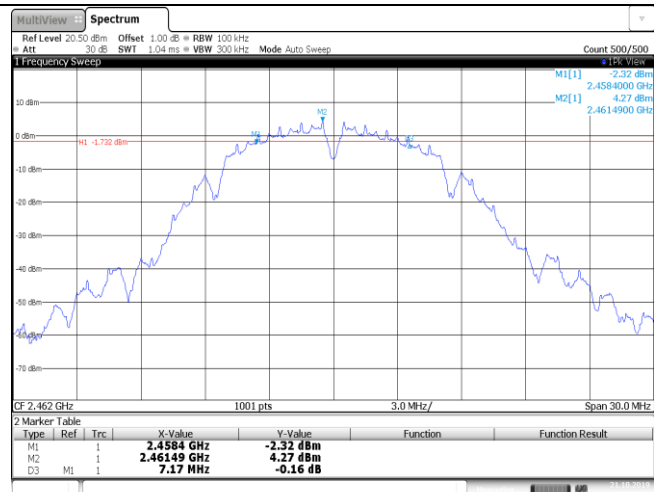
Date: 21.OCT.2019 14:10:29

CH06



Date: 21.OCT.2019 20:43:58

CH11

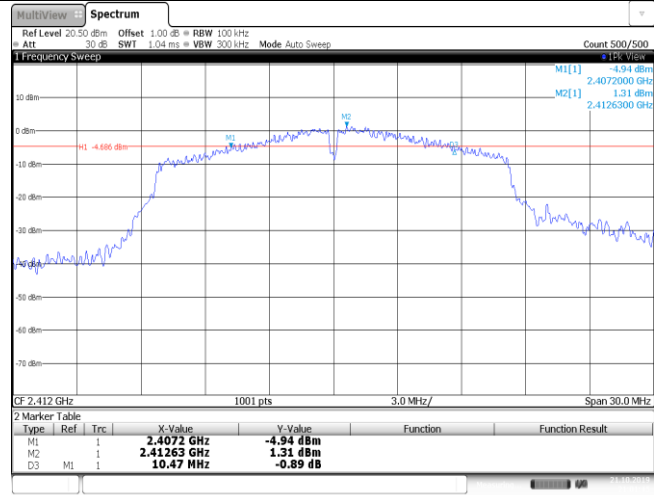


Date: 21.OCT.2019 14:14:49

Type:

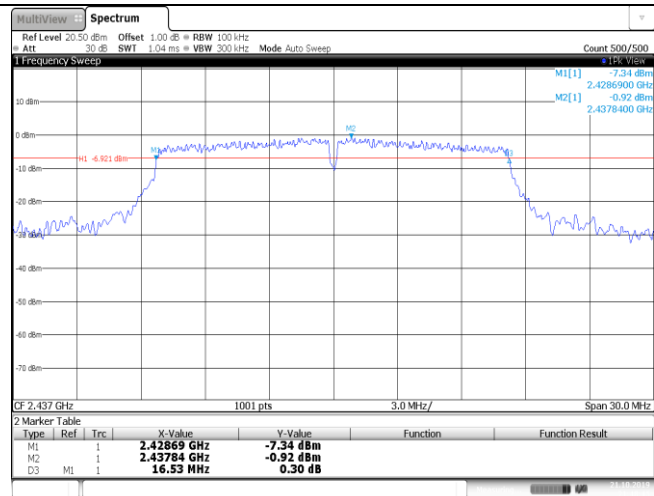
802.11g

CH01



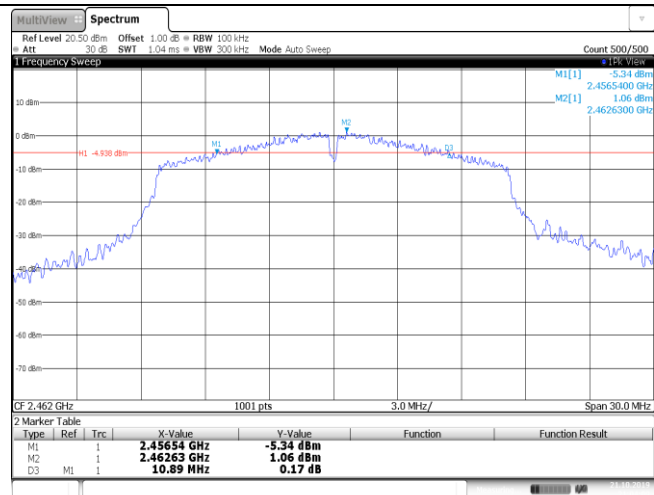
Date: 21.OCT.2019 21:01:45

CH06



Date: 21.OCT.2019 21:48:45

CH11

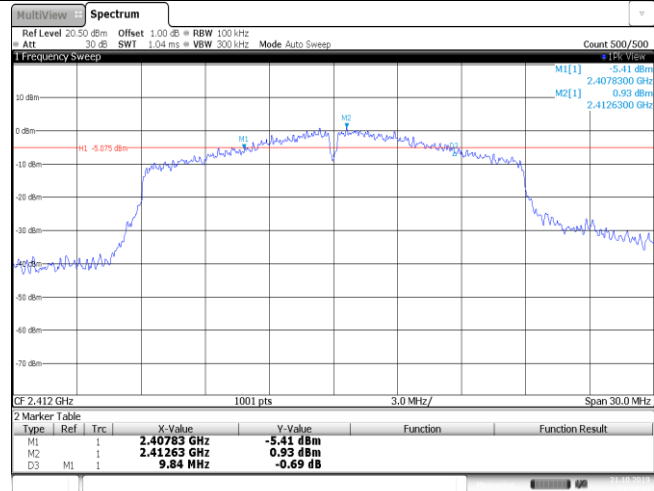


Date: 21.OCT.2019 21:04:10

Type:

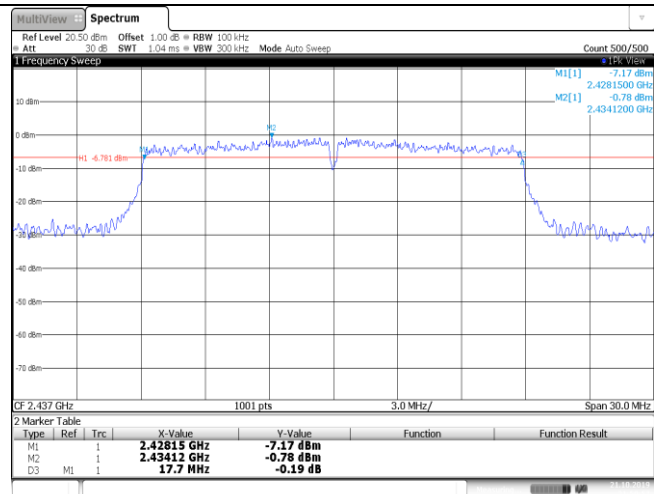
802.11n(HT20)

CH01



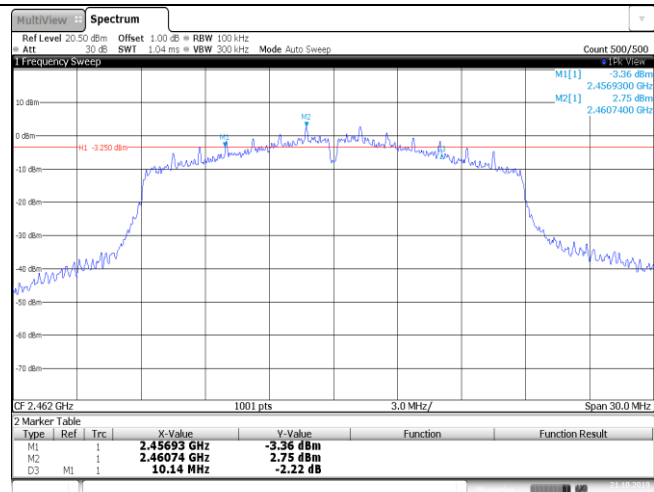
Date: 21.OCT.2019 21:14:09

CH06



Date: 21.OCT.2019 21:50:57

CH11

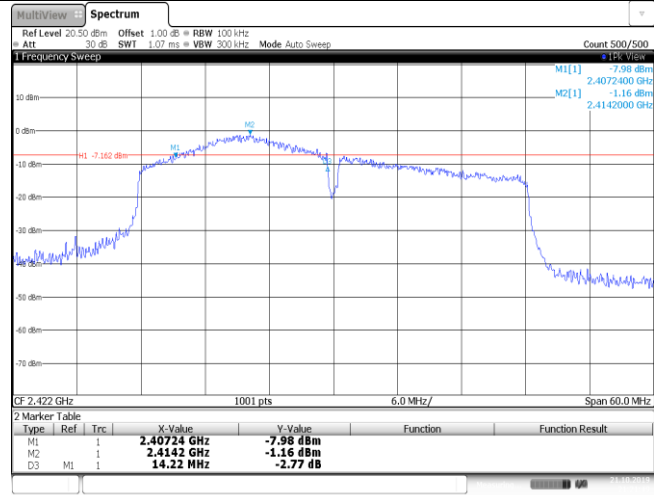


Date: 21.OCT.2019 21:55:05

Type:

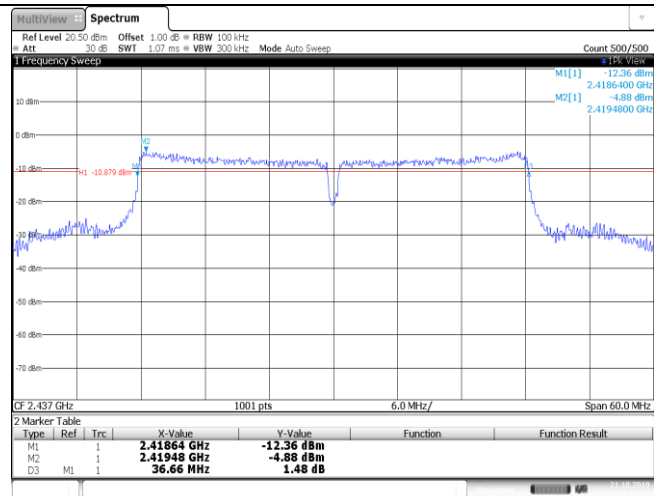
802.11n(HT40)

CH03



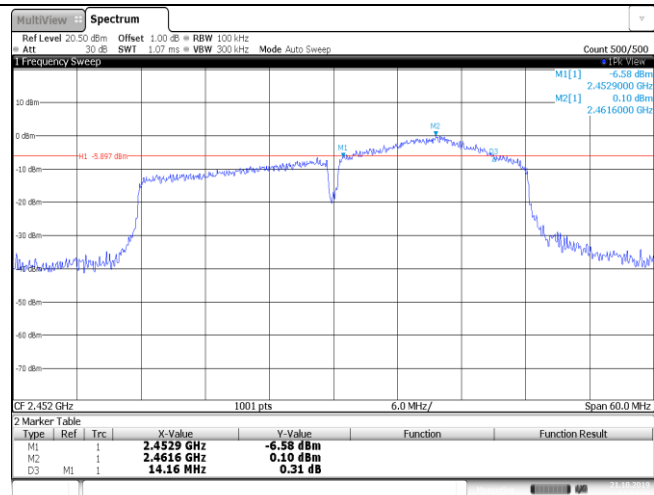
Date: 21.OCT.2019 21:21:48

CH06



Date: 21.OCT.2019 21:32:31

CH09



Date: 21.OCT.2019 21:34:19

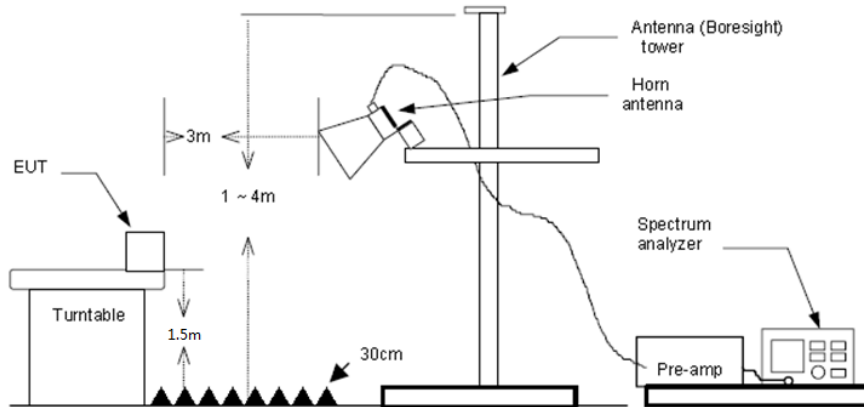
## 5.6. Restricted band

### 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

- 1) 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 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. In order to find the maximum 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

☒ Passed ☐ Not Applicable

Note:

- 1) Final level= Read level + Factor

Type	802.11b		Test channel		CH01		Polarity		Horizontal		
<hr/>											
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	33.84	31.62	3.92	42.24	20.00	47.14	54.00	-6.86	Average	
2	2390.01	33.78	32.02	3.97	42.21	20.00	47.56	54.00	-6.44	Average	
<hr/>											
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	40.74	31.62	3.92	42.24	20.00	54.04	74.00	-19.96	Peak	
2	2390.01	40.74	32.02	3.97	42.21	20.00	54.52	74.00	-19.48	Peak	

Type	802.11b		Test channel		CH01		Polarity		Vertical		
<hr/>											
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	34.95	31.62	3.92	42.24	20.00	48.25	54.00	-5.75	Average	
2	2390.01	33.89	32.02	3.97	42.21	20.00	47.67	54.00	-6.33	Average	
<hr/>											
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	40.79	31.62	3.92	42.24	20.00	54.09	74.00	-19.91	Peak	
2	2390.01	40.25	32.02	3.97	42.21	20.00	54.03	74.00	-19.97	Peak	

Type	802.11b			Test channel		CH11		Polarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	42.30	32.70	4.04	42.14	20.00	56.90	74.00	-17.10	Peak
	2	2500.00	42.13	32.80	4.05	42.12	20.00	56.86	74.00	-17.14	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.53	35.35	32.70	4.04	42.14	20.00	49.95	54.00	-4.05	Average
	2	2500.00	34.29	32.80	4.05	42.12	20.00	49.02	54.00	-4.98	Average

Type	802.11b			Test channel		CH11		Polarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	42.31	32.70	4.04	42.14	20.00	56.91	74.00	-17.09	Peak
	2	2500.00	42.07	32.80	4.05	42.12	20.00	56.80	74.00	-17.20	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.53	34.57	32.70	4.04	42.14	20.00	49.17	54.00	-4.83	Average
	2	2500.00	34.45	32.80	4.05	42.12	20.00	49.18	54.00	-4.82	Average

Type	802.11g		Test channel	CH01	Polarity		Horizontal			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	40.66	31.62	3.92	42.24	20.00	53.96	74.00	-20.04	Peak
2	2390.01	41.37	32.02	3.97	42.21	20.00	55.15	74.00	-18.85	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.10	30.13	31.62	3.92	42.24	20.00	43.43	54.00	-10.57	Average
2	2389.90	29.92	32.02	3.97	42.21	20.00	43.70	54.00	-10.30	Average
Type	802.11g		Test channel	CH01	Polarity		Vertical			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	40.91	31.62	3.92	42.24	20.00	54.21	74.00	-19.79	Peak
2	2390.01	41.79	32.02	3.97	42.21	20.00	55.57	74.00	-18.43	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	30.14	31.62	3.92	42.24	20.00	43.44	54.00	-10.56	Average
2	2390.01	29.96	32.02	3.97	42.21	20.00	43.74	54.00	-10.26	Average

Type	802.11g		Test channel	CH11	Polarity		Horizontal			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.57	30.17	32.70	4.04	42.14	20.00	44.77	54.00	-9.23	Average
2	2500.00	30.04	32.80	4.05	42.12	20.00	44.77	54.00	-9.23	Average
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	41.22	32.70	4.04	42.14	20.00	55.82	74.00	-18.18	Peak
2	2500.00	40.80	32.80	4.05	42.12	20.00	55.53	74.00	-18.47	Peak
Type	802.11g		Test channel	CH11	Polarity		Vertical			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.53	30.02	32.70	4.04	42.14	20.00	44.62	54.00	-9.38	Average
2	2500.00	29.94	32.80	4.05	42.12	20.00	44.67	54.00	-9.33	Average
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	42.24	32.70	4.04	42.14	20.00	56.84	74.00	-17.16	Peak
2	2500.00	42.21	32.80	4.05	42.12	20.00	56.94	74.00	-17.06	Peak

Type	802.11n(HT20)		Test channel		CH01		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	30.07	31.62	3.92	42.24	20.00	43.37	54.00	-10.63	Average
2	2390.01	30.01	32.02	3.97	42.21	20.00	43.79	54.00	-10.21	Average
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	41.63	31.62	3.92	42.24	20.00	54.93	74.00	-19.07	Peak
2	2390.01	41.87	32.02	3.97	42.21	20.00	55.65	74.00	-18.35	Peak
Type	802.11n(HT20)		Test channel		CH01		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	30.14	31.62	3.92	42.24	20.00	43.44	54.00	-10.56	Average
2	2390.01	30.06	32.02	3.97	42.21	20.00	43.84	54.00	-10.16	Average
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2310.00	40.82	31.62	3.92	42.24	20.00	54.12	74.00	-19.88	Peak
2	2390.01	41.90	32.02	3.97	42.21	20.00	55.68	74.00	-18.32	Peak

Type	802.11n(HT20)		Test channel		CH11		Polarity		Horizontal	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	42.02	32.70	4.04	42.14	20.00	56.62	74.00	-17.38	Peak
2	2500.00	41.51	32.80	4.05	42.12	20.00	56.24	74.00	-17.76	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	30.30	32.70	4.04	42.14	20.00	44.90	54.00	-9.10	Average
2	2500.00	29.84	32.80	4.05	42.12	20.00	44.57	54.00	-9.43	Average
Type	802.11n(HT20)		Test channel		CH11		Polarity		Vertical	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	45.30	32.70	4.04	42.14	20.00	59.90	74.00	-14.10	Peak
2	2500.00	42.57	32.80	4.05	42.12	20.00	57.30	74.00	-16.70	Peak
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	2483.49	30.32	32.70	4.04	42.14	20.00	44.92	54.00	-9.08	Average
2	2500.00	29.85	32.80	4.05	42.12	20.00	44.58	54.00	-9.42	Average

Type		802.11n(HT40)		Test channel		CH03		Polarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	40.31	31.62	3.92	42.24	20.00	53.61	74.00	-20.39	Peak
	2	2389.99	49.98	32.02	3.97	42.21	20.00	63.76	74.00	-10.24	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	30.98	31.62	3.92	42.24	20.00	44.28	54.00	-9.72	Average
	2	2389.99	35.46	32.02	3.97	42.21	20.00	49.24	54.00	-4.76	Average
Type		802.11n(HT40)		Test channel		CH03		Polarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	41.54	31.62	3.92	42.24	20.00	54.84	74.00	-19.16	Peak
	2	2389.99	51.90	32.02	3.97	42.21	20.00	65.68	74.00	-8.32	Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2310.00	30.71	31.62	3.92	42.24	20.00	44.01	54.00	-9.99	Average
	2	2389.99	34.49	32.02	3.97	42.21	20.00	48.27	54.00	-5.73	Average

Type	802.11n(HT40)			Test channel		CH09		Polarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	32.57	32.70	4.04	42.14	20.00	47.17	54.00	-6.83	Average
	2	2500.00	30.76	32.80	4.05	42.12	20.00	45.49	54.00	-8.51	Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	49.61	32.70	4.04	42.14	20.00	64.21	74.00	-9.79	Peak
	2	2500.00	42.29	32.80	4.05	42.12	20.00	57.02	74.00	-16.98	Peak
Type	802.11n(HT40)			Test channel		CH09		Polarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	32.30	32.70	4.04	42.14	20.00	46.90	54.00	-7.10	Average
	2	2500.00	30.45	32.80	4.05	42.12	20.00	45.18	54.00	-8.82	Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.44	49.49	32.70	4.04	42.14	20.00	64.09	74.00	-9.91	Peak
	2	2500.00	41.84	32.80	4.05	42.12	20.00	56.57	74.00	-17.43	Peak

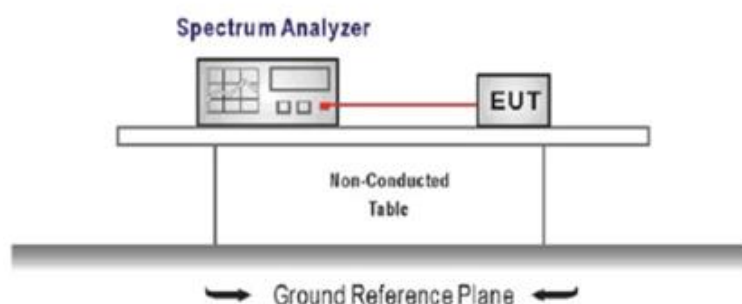
## 5.7. Band edge and Spurious Emissions (conducted)

### 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 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  $\geq 3 \times$  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  $\geq 3 \times$  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


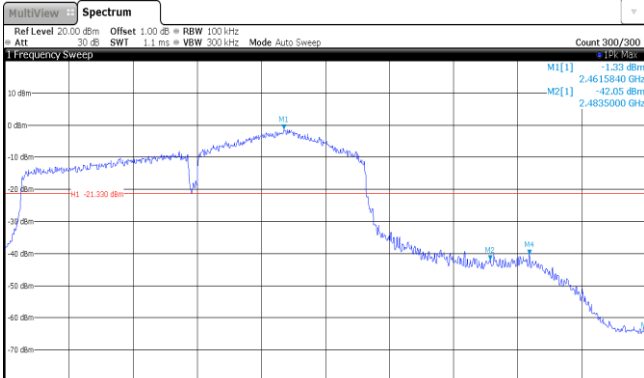
### TEST RESULTS

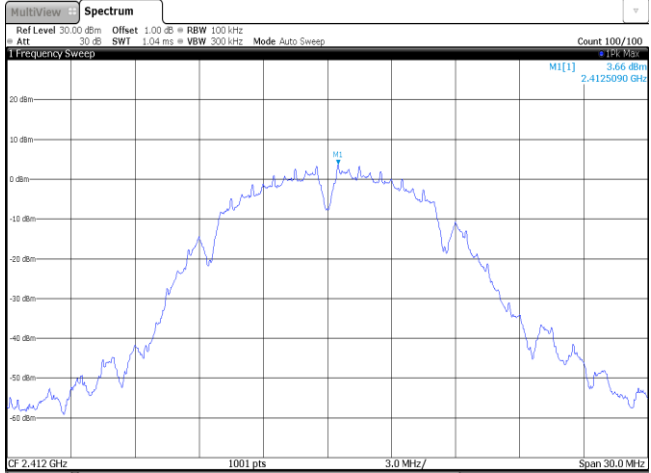
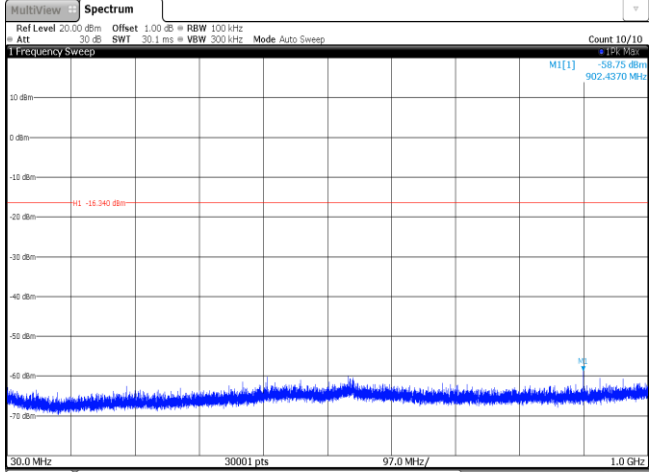
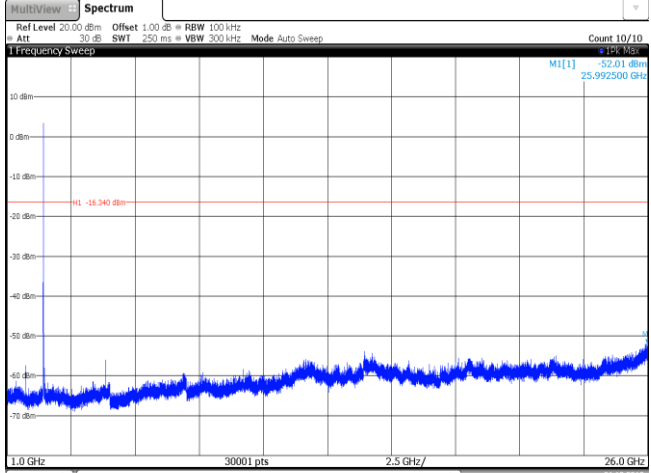
☒ Passed ☐ Not Applicable

Test Item:	Bandedge	Type:	802.11b																																										
CH01	<div><div><div>MultiViewSpectrum</div><div>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.12 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div><div>1 Frequency Sweep</div><div><div>M1[1] 3.51 dBm 2.412430 GHz M2[1] -52.81 dBm 2.400000 GHz</div><div>M1 -16.490 dBm</div><div>M3</div><div>2.31 GHz 1001 pts 11.2 MHz/ 2.422 GHz</div></div><div><div>2 Marker Table</div><table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.41243 GHz</td><td>3.51 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-52.81 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-61.23 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.27 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399936 GHz</td><td>-53.49 dBm</td><td></td><td></td></tr></tbody></table></div><div>Date: 21.OCT.2019 14:11:01</div></div></div>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41243 GHz	3.51 dBm			M2	1		2.4 GHz	-52.81 dBm			M3	1		2.39 GHz	-61.23 dBm			M4	1		2.31 GHz	-64.27 dBm			M5	1		2.399936 GHz	-53.49 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.41243 GHz	3.51 dBm																																									
M2	1		2.4 GHz	-52.81 dBm																																									
M3	1		2.39 GHz	-61.23 dBm																																									
M4	1		2.31 GHz	-64.27 dBm																																									
M5	1		2.399936 GHz	-53.49 dBm																																									
CH11	<div><div><div>MultiViewSpectrum</div><div>Ref Level 20.00 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWI 1.03 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div><div>1 Frequency Sweep</div><div><div>M1[1] 3.91 dBm 2.4614710 GHz M2[1] -59.06 dBm 2.4835000 GHz</div><div>M1 -16.090 dBm</div><div>M2</div><div>M4</div><div>2.452 GHz 1001 pts 4.8 MHz/ 2.5 GHz</div></div><div><div>2 Marker Table</div><table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td>1</td><td></td><td>2.461471 GHz</td><td>3.91 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-59.06 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-64.06 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.486656 GHz</td><td>-59.35 dBm</td><td></td><td></td></tr></tbody></table></div><div>Date: 21.OCT.2019 14:15:20</div></div></div>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.461471 GHz	3.91 dBm			M2	1		2.4835 GHz	-59.06 dBm			M3	1		2.5 GHz	-64.06 dBm			M4	1		2.486656 GHz	-59.35 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.461471 GHz	3.91 dBm																																									
M2	1		2.4835 GHz	-59.06 dBm																																									
M3	1		2.5 GHz	-64.06 dBm																																									
M4	1		2.486656 GHz	-59.35 dBm																																									

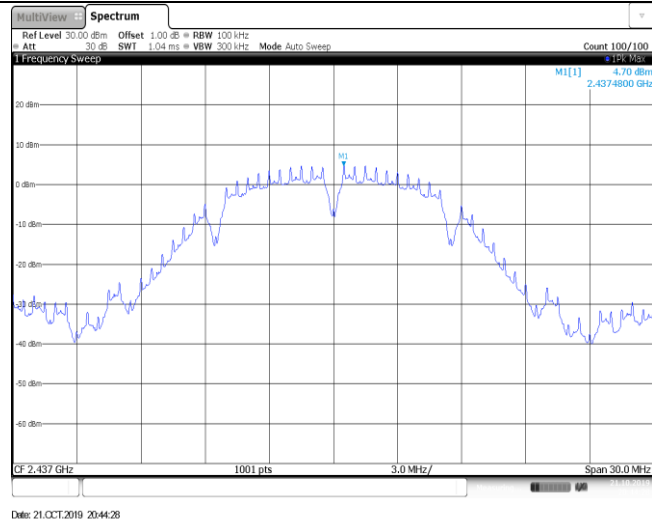
Test Item:	Bandedge	Type:	802.11g																																										
CH01	<div><div><div>MultiView</div><div>Spectrum</div><div>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW1 1.12 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div></div><div><div>1 Frequency Sweep</div><div><div>10 dBm</div><div>0 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div></div><div><div>M1[1]</div><div>0.95 dBm</div><div>2.412880 GHz</div><div>M2[1]</div><div>-38.71 dBm</div><div>2.400000 GHz</div></div></div><div><div>2.31 GHz</div><div>1001 pts</div><div>11.2 MHz/</div><div>2.422 GHz</div></div><div><div>2 Marker Table</div><table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.41288 GHz</td><td>0.95 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-38.71 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-43.64 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.69 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.399152 GHz</td><td>-36.53 dBm</td><td></td><td></td></tr></table></div></div> <div>Date: 21.OCT.2019 21:02:17</div>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41288 GHz	0.95 dBm			M2	1		2.4 GHz	-38.71 dBm			M3	1		2.39 GHz	-43.64 dBm			M4	1		2.31 GHz	-64.69 dBm			M5	1		2.399152 GHz	-36.53 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.41288 GHz	0.95 dBm																																									
M2	1		2.4 GHz	-38.71 dBm																																									
M3	1		2.39 GHz	-43.64 dBm																																									
M4	1		2.31 GHz	-64.69 dBm																																									
M5	1		2.399152 GHz	-36.53 dBm																																									
CH11	<div><div><div>MultiView</div><div>Spectrum</div><div>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW1 1.03 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div></div><div><div>1 Frequency Sweep</div><div><div>10 dBm</div><div>0 dBm</div><div>-10 dBm</div><div>-20 dBm</div><div>-30 dBm</div><div>-40 dBm</div><div>-50 dBm</div><div>-60 dBm</div><div>-70 dBm</div></div><div><div>M1[1]</div><div>0.89 dBm</div><div>2.461375 GHz</div><div>M2[1]</div><div>-48.56 dBm</div><div>2.463500 GHz</div></div></div><div><div>2.452 GHz</div><div>1001 pts</div><div>4.8 MHz/</div><div>2.5 GHz</div></div><div><div>2 Marker Table</div><table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.461375 GHz</td><td>0.89 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-48.56 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-63.11 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.483584 GHz</td><td>-48.47 dBm</td><td></td><td></td></tr></table></div></div> <div>Date: 21.OCT.2019 21:04:41</div>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.461375 GHz	0.89 dBm			M2	1		2.4835 GHz	-48.56 dBm			M3	1		2.5 GHz	-63.11 dBm			M4	1		2.483584 GHz	-48.47 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.461375 GHz	0.89 dBm																																									
M2	1		2.4835 GHz	-48.56 dBm																																									
M3	1		2.5 GHz	-63.11 dBm																																									
M4	1		2.483584 GHz	-48.47 dBm																																									



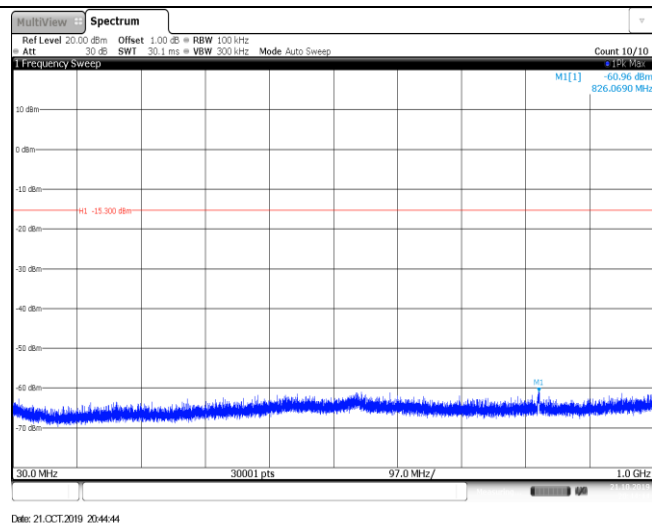
Test Item:	Bandedge	Type:	802.11n(HT40)																																										
CH03	<div><div><div>MultiView</div><div>Spectrum</div><div>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW1 1.32 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div></div><div><div>1 Frequency Sweep</div><div></div><div>2 Marker Table</div><table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.41319 GHz</td><td>-1.27 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4 GHz</td><td>-34.58 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.39 GHz</td><td>-38.23 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.31 GHz</td><td>-64.07 dBm</td><td></td><td></td></tr><tr><td>M5</td><td>1</td><td></td><td>2.397912 GHz</td><td>-33.04 dBm</td><td></td><td></td></tr></table></div><div>Date: 21.OCT.2019 21:22:20</div></div>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.41319 GHz	-1.27 dBm			M2	1		2.4 GHz	-34.58 dBm			M3	1		2.39 GHz	-38.23 dBm			M4	1		2.31 GHz	-64.07 dBm			M5	1		2.397912 GHz	-33.04 dBm		
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.41319 GHz	-1.27 dBm																																									
M2	1		2.4 GHz	-34.58 dBm																																									
M3	1		2.39 GHz	-38.23 dBm																																									
M4	1		2.31 GHz	-64.07 dBm																																									
M5	1		2.397912 GHz	-33.04 dBm																																									
CH09	<div><div><div>MultiView</div><div>Spectrum</div><div>Ref Level 20.00 dBm Offset 1.00 dB BW 100 kHz Att 30 dB SW1 1.1 ms VBW 300 kHz Mode Auto Sweep</div><div>Count 300/300</div></div><div><div>1 Frequency Sweep</div><div></div><div>2 Marker Table</div><table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-Value</th><th>Y-Value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.461584 GHz</td><td>-1.33 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.4835 GHz</td><td>-42.05 dBm</td><td></td><td></td></tr><tr><td>M3</td><td>1</td><td></td><td>2.5 GHz</td><td>-64.45 dBm</td><td></td><td></td></tr><tr><td>M4</td><td>1</td><td></td><td>2.487624 GHz</td><td>-40.16 dBm</td><td></td><td></td></tr></table></div><div>Date: 21.OCT.2019 22:00:04</div></div>			Type	Ref	Trc	X-Value	Y-Value	Function	Function Result	M1	1		2.461584 GHz	-1.33 dBm			M2	1		2.4835 GHz	-42.05 dBm			M3	1		2.5 GHz	-64.45 dBm			M4	1		2.487624 GHz	-40.16 dBm									
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result																																							
M1	1		2.461584 GHz	-1.33 dBm																																									
M2	1		2.4835 GHz	-42.05 dBm																																									
M3	1		2.5 GHz	-64.45 dBm																																									
M4	1		2.487624 GHz	-40.16 dBm																																									

Test Item:	SE	Type:	802.11b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

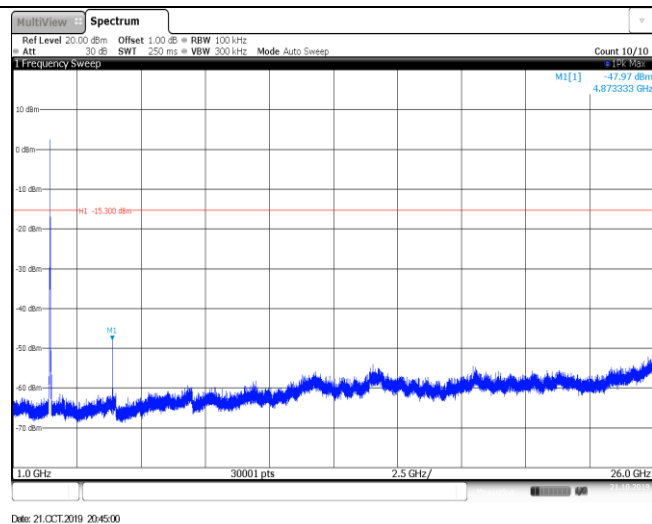
CH06  
Reference level

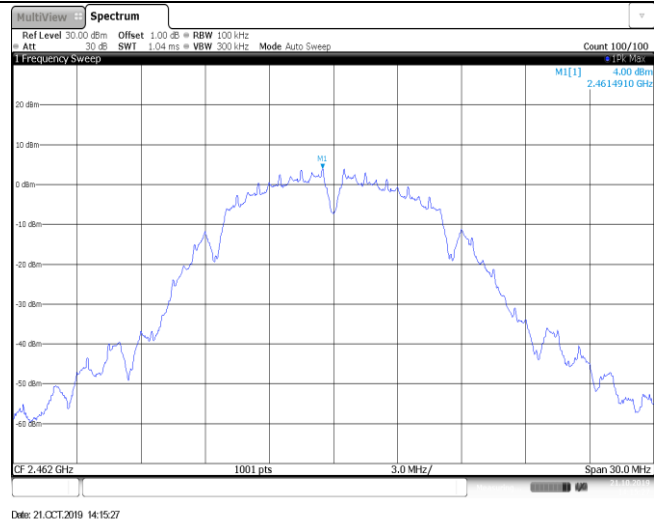
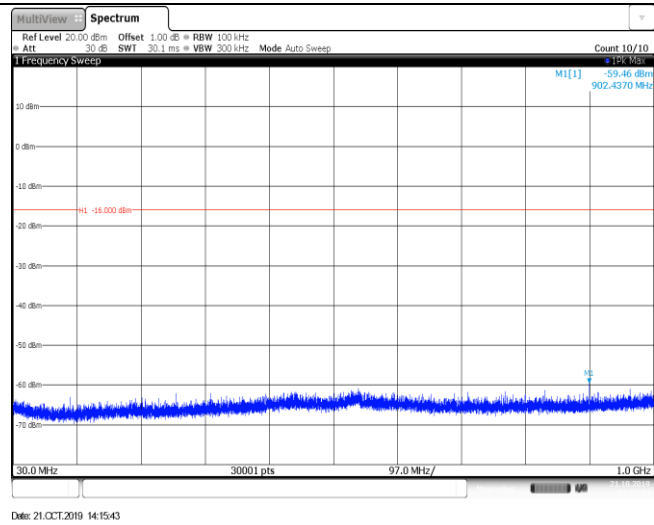
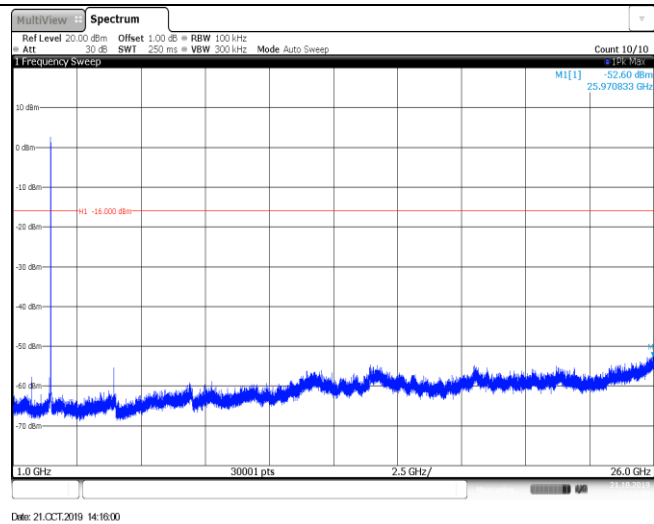


CH06  
30MHz~1000MHz



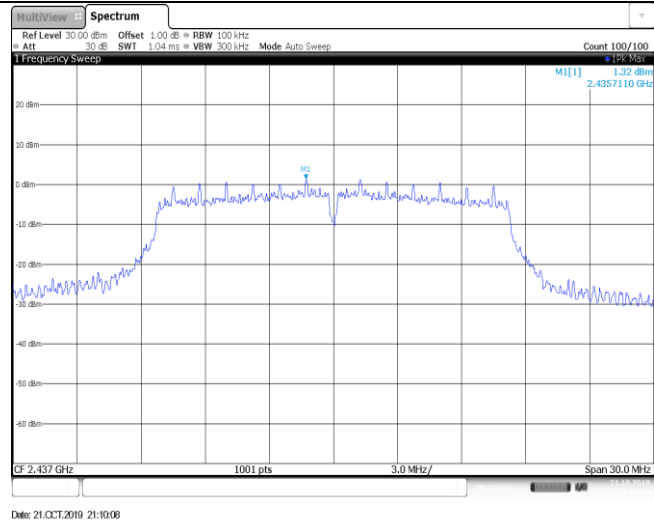
CH06  
1GHz~26GHz



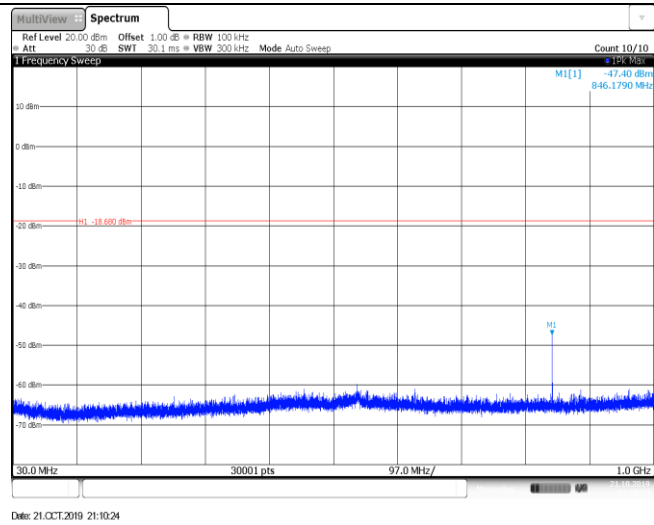
CH11  
Reference levelCH11  
30MHz~1000MHzCH11  
1GHz~26GHz



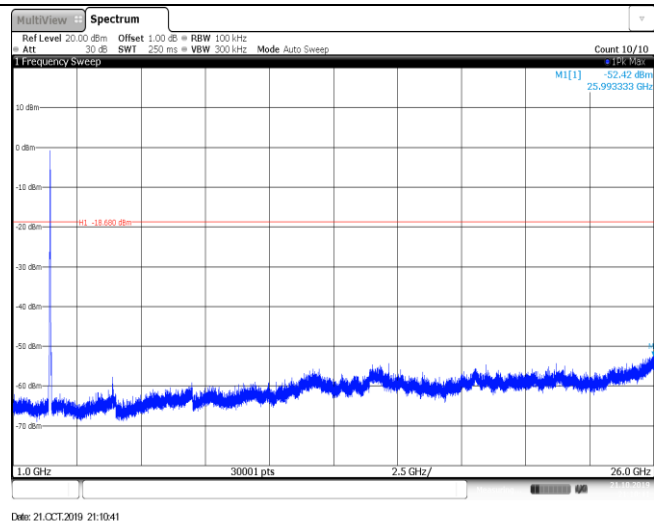
CH06  
Reference level



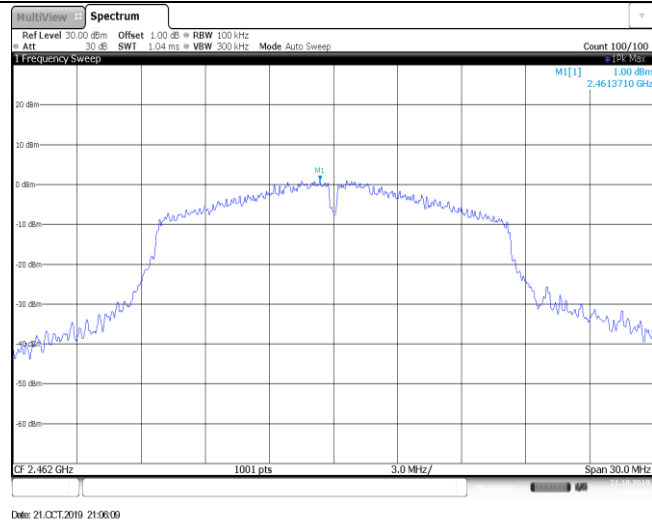
CH06  
30MHz~1000MHz



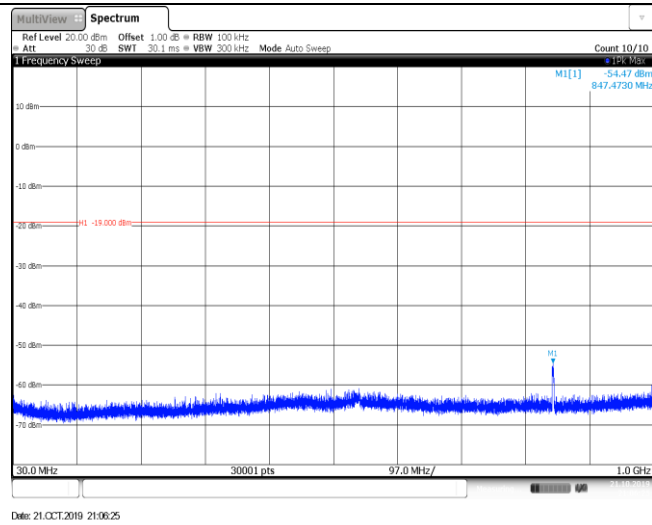
CH06  
1GHz~26GHz



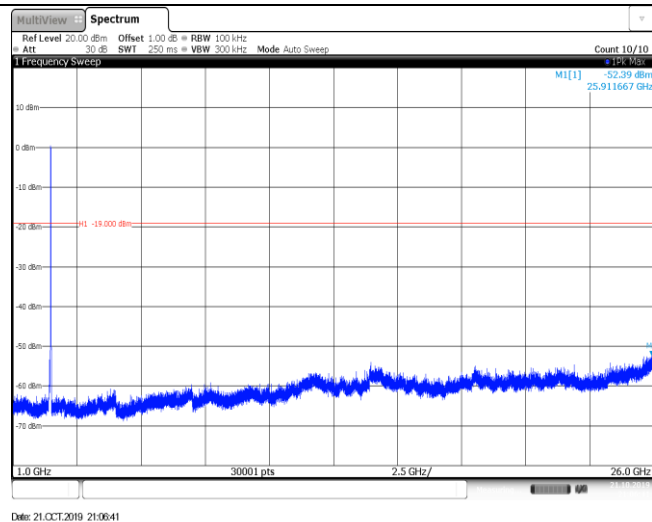
CH11  
Reference level

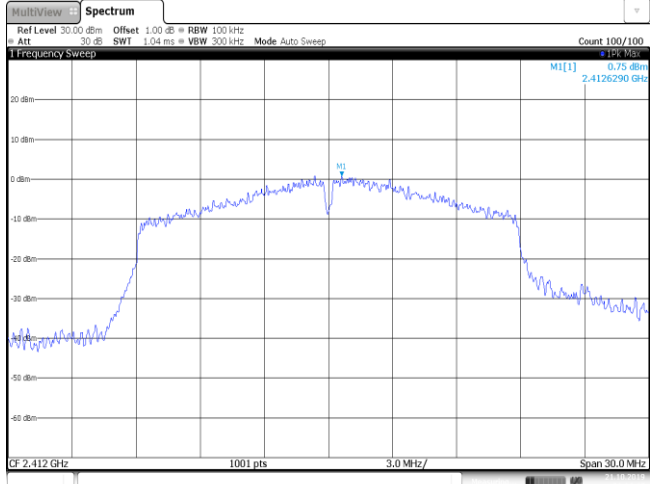
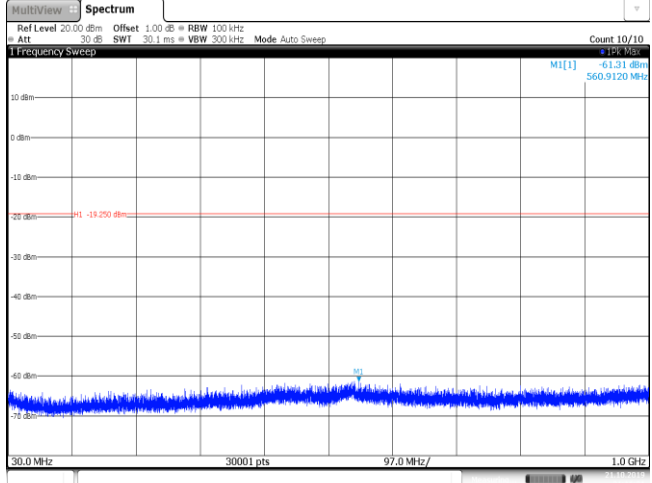
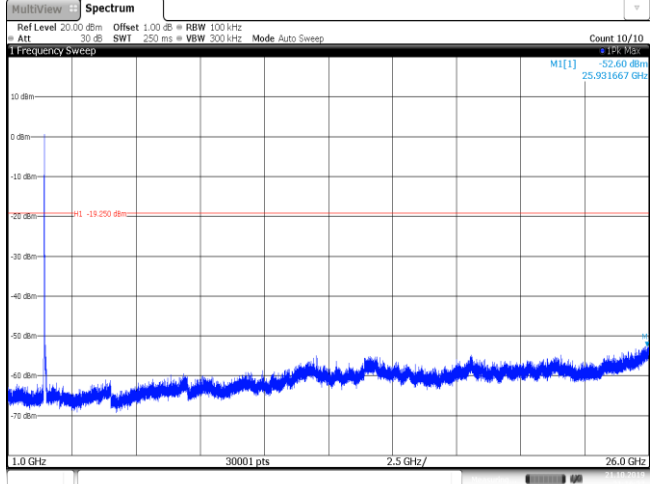


CH11  
30MHz~1000MHz

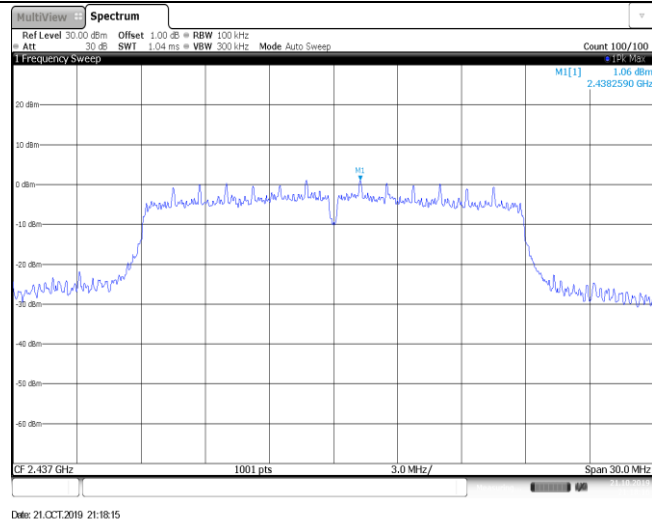


CH11  
1GHz~26GHz

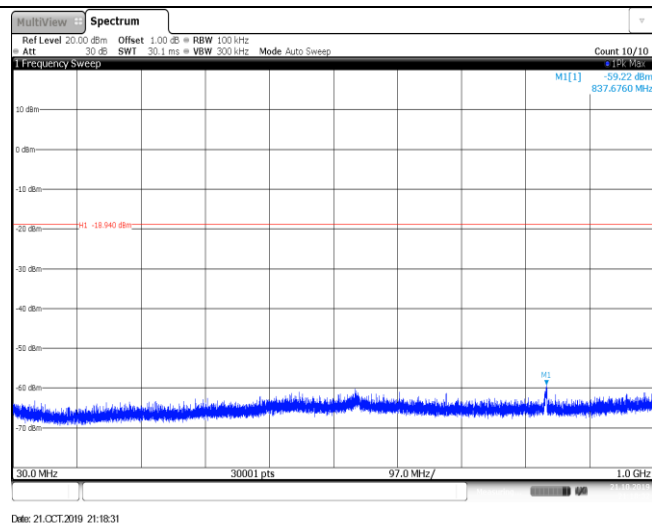


Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level		 <p>21.OCT.2019 21:14:48</p>	
CH01 30MHz~1000MHz		 <p>21.OCT.2019 21:16:20</p>	
CH01 1GHz~26GHz		 <p>21.OCT.2019 21:16:37</p>	

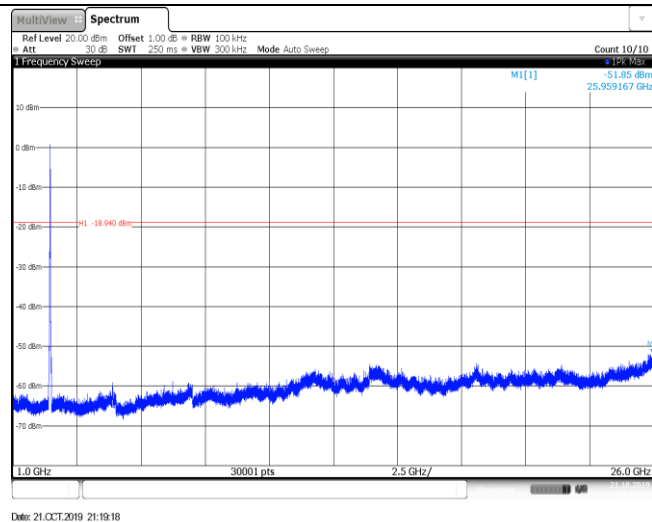
CH06  
Reference level



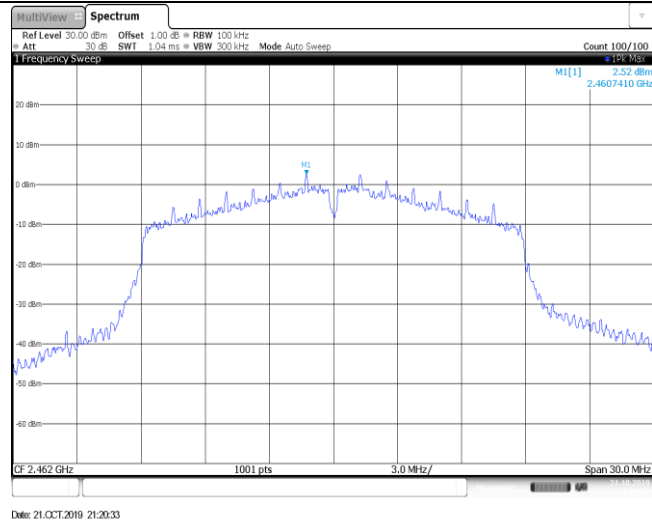
CH06  
30MHz~1000MHz



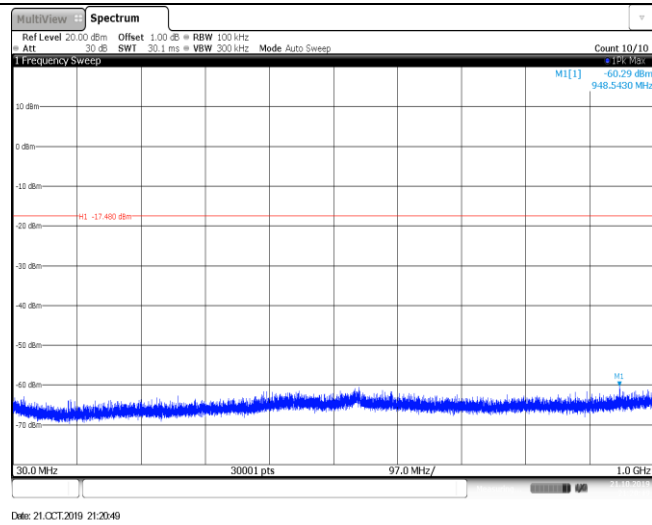
CH06  
1GHz~26GHz



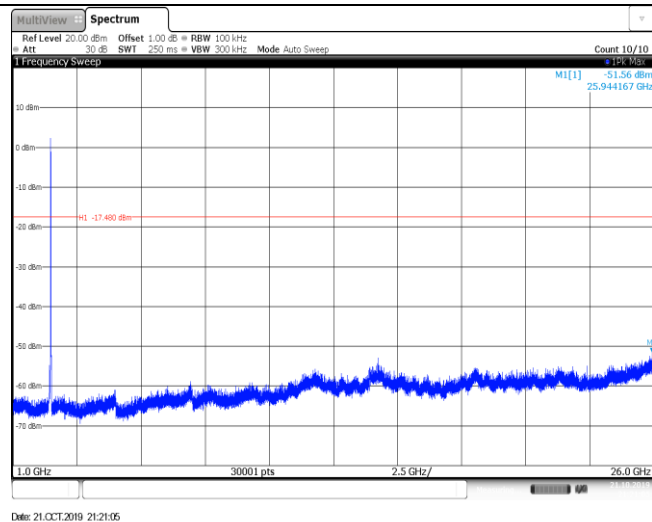
CH11  
Reference level



CH11  
30MHz~1000MHz

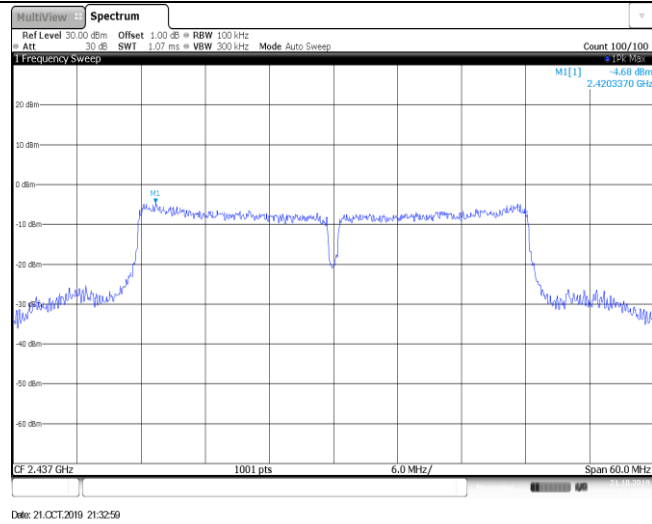


CH11  
1GHz~26GHz

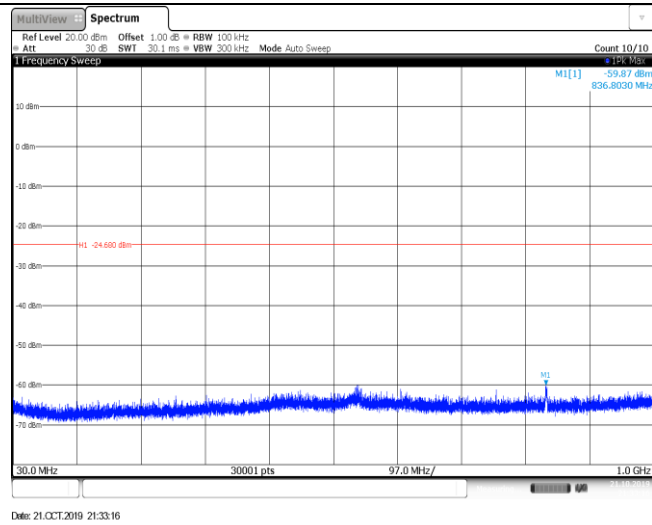




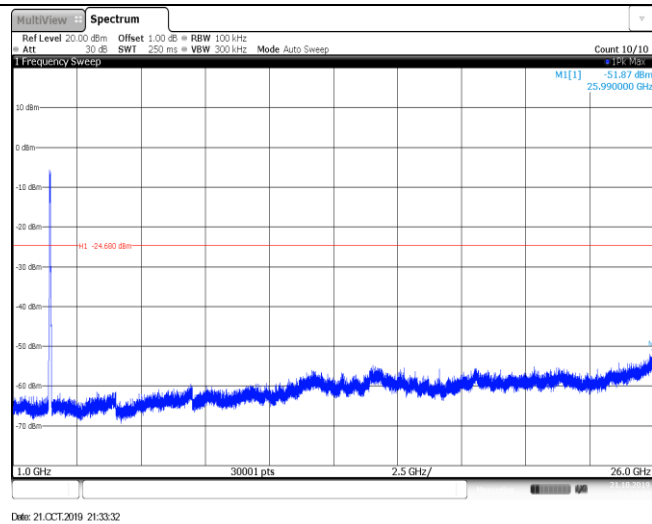
CH06  
Reference level



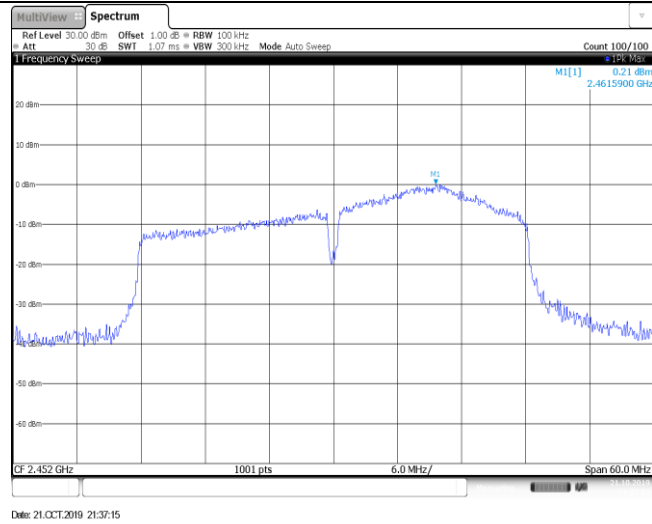
CH06  
30MHz~1000MHz



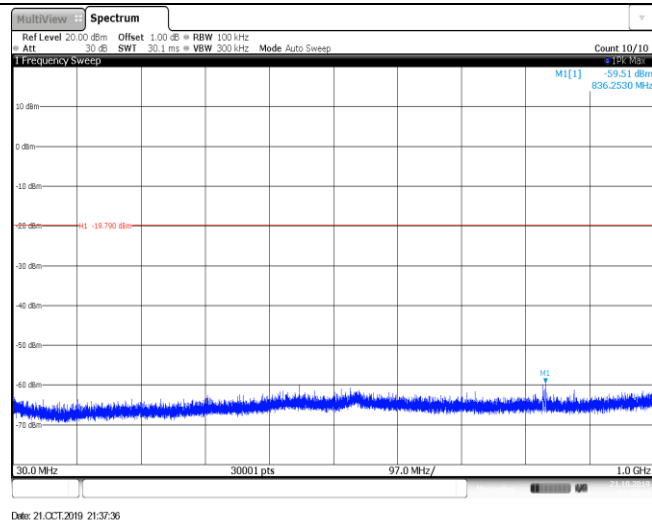
CH06  
1GHz~26GHz



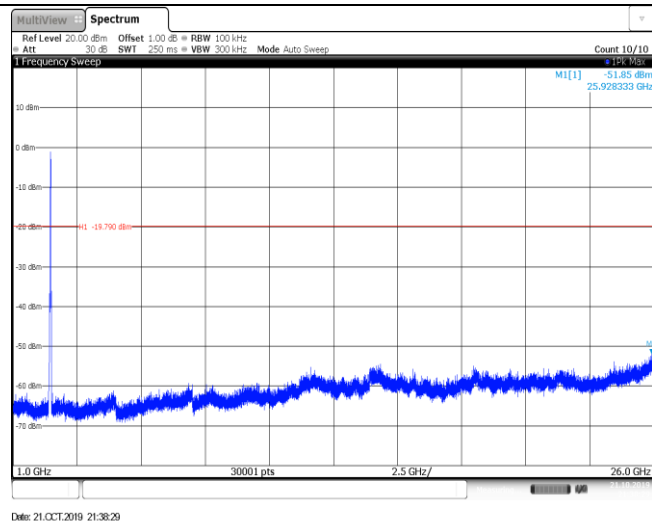
CH09  
Reference level



CH09  
30MHz~1000MHz



CH09  
1GHz~26GHz



## 5.8. Spurious Emissions (radiated)

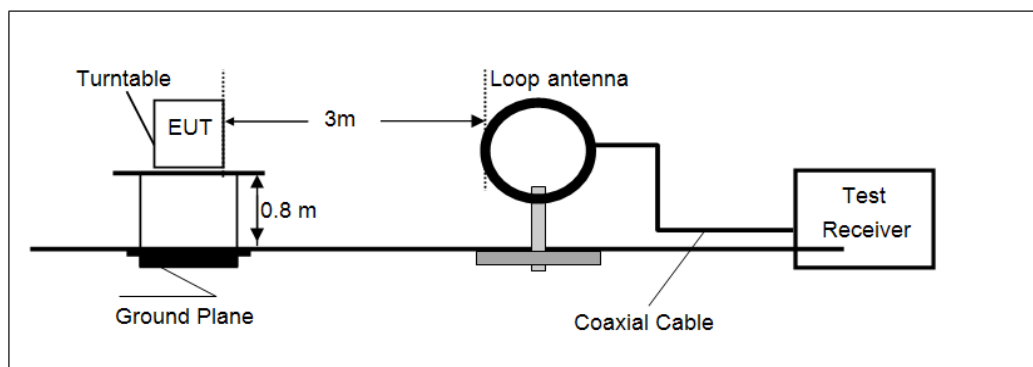
### LIMIT

#### FCC CFR Title 47 Part 15 Subpart C Section 15.209

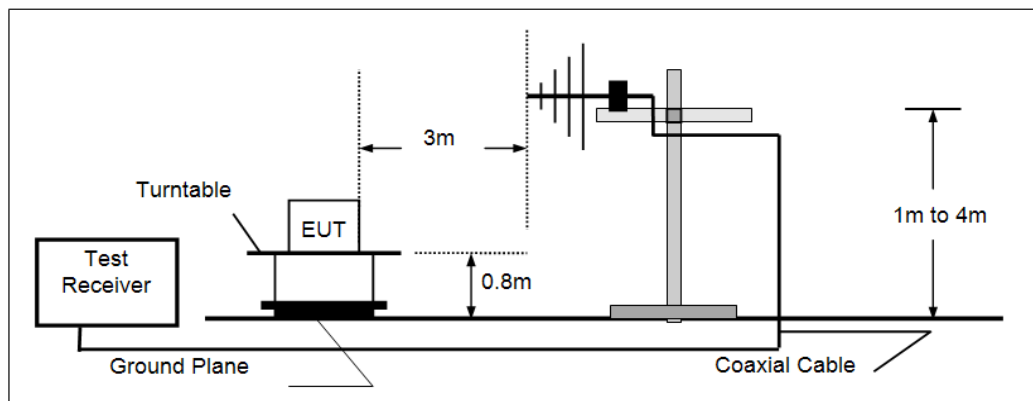
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

### TEST CONFIGURATION

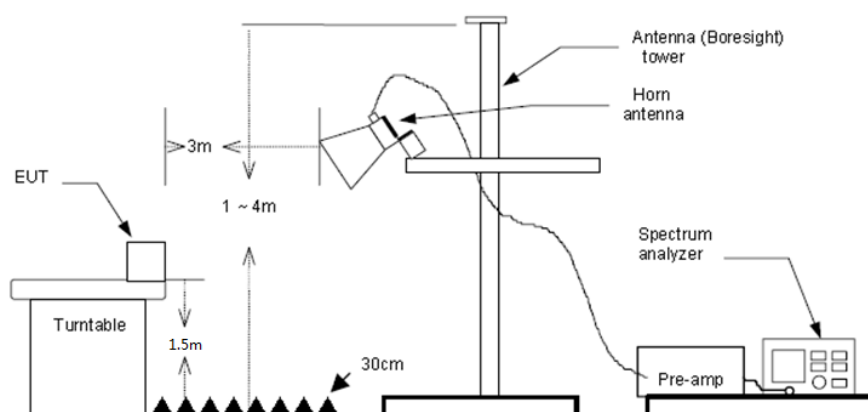
#### ➤ 9kHz ~30MHz



#### ➤ 30MHz ~ 1GHz



#### ➤ Above 1GHz



## **TEST PROCEDURE**

1. 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 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
  - (1) Span shall wide enough to fully capture the emission being measured;
  - (2) Below 1 GHz:  
RBW=120 kHz, VBW=300 kHz, 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) From 1 GHz to 10<sup>th</sup> harmonic:  
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**

Note:

- 1) Final Level =Receiver Read level + 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.

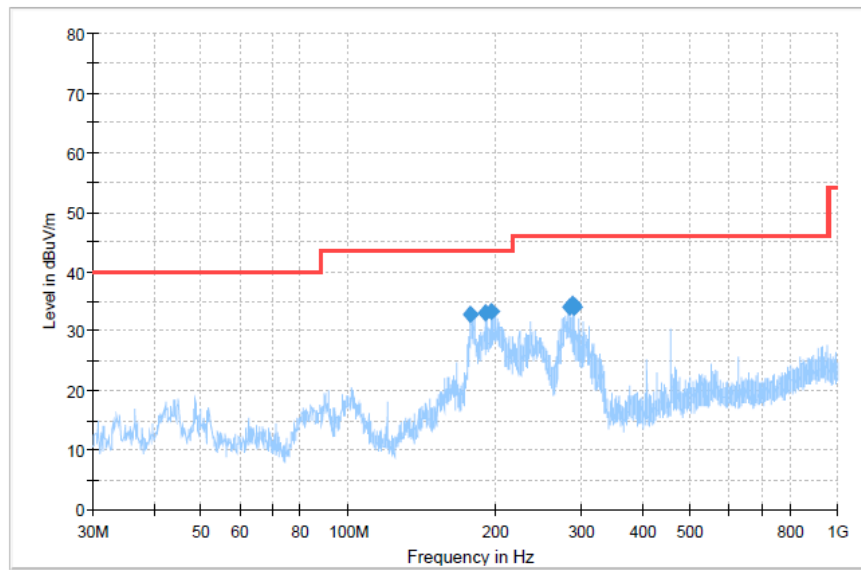
### ➤ **30MHz ~1000MHz**

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

## ➤ 30MHz ~ 1GHz

Polarization:

Vertical

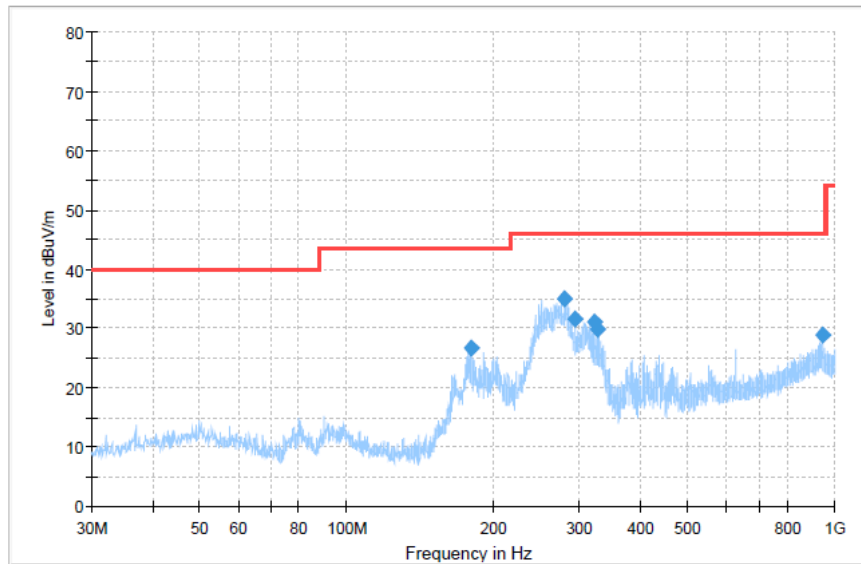


## Final Result

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
177.440000	32.84	43.50	10.66	100.0	V	0.0	-11.6
190.898750	33.15	43.50	10.35	100.0	V	0.0	-10.4
196.355000	33.18	43.50	10.32	100.0	V	0.0	-9.6
284.018750	34.02	46.00	11.98	100.0	V	0.0	-7.2
288.020000	34.46	46.00	11.54	100.0	V	0.0	-7.1
289.232500	33.99	46.00	12.01	100.0	V	0.0	-7.1

Polarization:

Horizontal



## Final Result

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
179.622500	26.58	43.50	16.92	100.0	H	298.0	-11.6
280.138750	35.09	46.00	10.91	100.0	H	133.0	-7.4
294.446250	31.57	46.00	14.43	100.0	H	94.0	-6.9
321.485000	30.99	46.00	15.01	100.0	H	109.0	-5.6
326.092500	29.80	46.00	16.20	100.0	H	94.0	-5.5
945.195000	28.99	46.00	17.01	100.0	H	26.0	4.5

**For 1 GHz ~ 25 GHz**

Type	802.11b	Test channel	CH01	Polarity	Horizontal																																																							
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Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
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3	8104.56	38.06	35.90	7.58	39.93	41.61	74.00	-32.39	Peak																																																			
4	10348.05	37.39	37.41	8.50	39.56	43.74	74.00	-30.26	Peak																																																			
Type	802.11b	Test channel	CH01	Polarity	Vertical																																																							
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Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
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2	5125.52	40.47	34.20	5.83	40.80	39.70	74.00	-34.30	Peak																																																			
3	7961.43	38.68	35.80	7.52	40.33	41.67	74.00	-32.33	Peak																																																			
4	11399.03	36.63	38.12	8.93	40.24	43.44	74.00	-30.56	Peak																																																			
Type	802.11b	Test channel	CH06	Polarity	Horizontal																																																							
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Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	3690.85	41.98	33.10	5.01	41.72	38.37	74.00	-35.63	Peak																																																			
2	4871.10	43.21	33.90	5.66	40.96	41.81	74.00	-32.19	Peak																																																			
3	7470.56	39.03	36.00	7.27	40.98	41.32	74.00	-32.68	Peak																																																			
4	10321.74	36.86	37.39	8.50	39.60	43.15	74.00	-30.85	Peak																																																			
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Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	3728.63	40.84	33.30	5.03	41.70	37.47	74.00	-36.53	Peak																																																			
2	5806.41	40.22	34.71	6.25	40.44	40.74	74.00	-33.26	Peak																																																			
3	7319.96	38.59	36.00	7.17	41.02	40.74	74.00	-33.26	Peak																																																			
4	10243.22	35.86	37.35	8.46	39.69	41.98	74.00	-32.02	Peak																																																			
Type	802.11b	Test channel	CH11	Polarity	Horizontal																																																							
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Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	3543.55	41.89	32.90	4.78	41.80	37.77	74.00	-36.23	Peak																																																			
2	5164.81	38.43	34.23	5.85	40.77	37.74	74.00	-36.26	Peak																																																			
3	7319.96	38.88	36.00	7.17	41.02	41.03	74.00	-32.97	Peak																																																			
4	9884.60	35.39	37.08	8.27	40.06	40.68	74.00	-33.32	Peak																																																			
Type	802.11b	Test channel	CH11	Polarity	Vertical																																																							
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Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																			
1	3700.26	41.03	33.30	5.01	41.72	37.62	74.00	-36.38	Peak																																																			
2	5099.49	38.82	34.20	5.81	40.82	38.01	74.00	-35.99	Peak																																																			
3	7981.72	36.89	35.80	7.53	40.28	39.94	74.00	-34.06	Peak																																																			
4	10374.42	34.46	37.43	8.51	39.53	40.87	74.00	-33.13	Peak																																																			

Type	802.11g	Test channel	CH01	Polarity	Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3208.66	41.44	34.16	4.59	41.87	38.32	74.00	-35.68	Peak	
2	4455.89	38.99	34.39	5.43	41.28	37.53	74.00	-36.47	Peak	
3	7470.56	38.59	36.00	7.27	40.98	40.88	74.00	-33.12	Peak	
4	10696.21	35.82	37.62	8.56	40.46	41.54	74.00	-32.46	Peak	
Type	802.11g	Test channel	CH01	Polarity	Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3200.50	41.40	34.39	4.59	41.87	38.51	74.00	-35.49	Peak	
2	4712.55	38.65	34.10	5.54	41.05	37.24	74.00	-36.76	Peak	
3	6412.43	37.74	35.41	6.76	40.73	39.18	74.00	-34.82	Peak	
4	9759.59	33.88	36.92	8.21	39.85	39.16	74.00	-34.84	Peak	
Type	802.11g	Test channel	CH06	Polarity	Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3200.50	40.27	34.39	4.59	41.87	37.38	74.00	-36.62	Peak	
2	3973.62	40.80	33.35	5.13	41.57	37.71	74.00	-36.29	Peak	
3	8904.99	36.21	36.10	8.19	39.87	40.63	74.00	-33.37	Peak	
4	10480.59	36.36	37.49	8.52	39.76	42.61	74.00	-31.39	Peak	
Type	802.11g	Test channel	CH06	Polarity	Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3200.50	44.52	34.39	4.59	41.87	41.63	74.00	-32.37	Peak	
2	5821.21	40.85	34.74	6.26	40.38	41.47	74.00	-32.53	Peak	
3	8022.46	39.13	35.82	7.54	40.16	42.33	74.00	-31.67	Peak	
4	10374.42	37.19	37.43	8.51	39.53	43.60	74.00	-30.40	Peak	
Type	802.11g	Test channel	CH11	Polarity	Horizontal					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3200.50	40.44	34.39	4.59	41.87	37.55	74.00	-36.45	Peak	
2	5125.52	38.51	34.20	5.83	40.80	37.74	74.00	-36.26	Peak	
3	7319.96	37.80	36.00	7.17	41.02	39.95	74.00	-34.05	Peak	
4	10400.86	35.47	37.44	8.51	39.50	41.92	74.00	-32.08	Peak	
Type	802.11g	Test channel	CH11	Polarity	Vertical					
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3561.64	41.52	32.92	4.80	41.80	37.44	74.00	-36.56	Peak	
2	4895.97	38.66	33.90	5.67	40.95	37.28	74.00	-36.72	Peak	
3	7451.57	38.12	36.00	7.26	40.98	40.40	74.00	-33.60	Peak	
4	10427.37	35.80	37.46	8.52	39.59	42.19	74.00	-31.81	Peak	

Type	802.11n(HT20)	Test channel	CH01	Polarity	Horizontal					
<div></div>										
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3208.66	41.27	34.16	4.59	41.87	38.15	74.00	-35.85	Peak	
2	5940.97	37.11	35.06	6.33	39.88	38.62	74.00	-35.38	Peak	
3	7319.96	38.15	36.00	7.17	41.02	40.30	74.00	-33.70	Peak	
4	12653.00	34.13	38.86	9.39	39.42	42.96	74.00	-31.04	Peak	
Type	802.11n(HT20)	Test channel	CH01	Polarity	Vertical					
<div></div>										
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3184.25	41.23	33.96	4.58	41.88	37.89	74.00	-36.11	Peak	
2	5086.52	38.04	34.20	5.80	40.83	37.21	74.00	-36.79	Peak	
3	7045.74	37.53	35.95	7.01	41.10	39.39	74.00	-34.61	Peak	
4	11169.24	35.61	37.94	8.79	40.70	41.64	74.00	-32.36	Peak	
Type	802.11n(HT20)	Test channel	CH06	Polarity	Horizontal					
<div></div>										
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3176.16	42.01	33.74	4.57	41.88	38.44	74.00	-35.56	Peak	
2	4478.63	38.44	34.34	5.44	41.25	36.97	74.00	-37.03	Peak	
3	8083.96	37.08	35.88	7.57	39.99	40.54	74.00	-33.46	Peak	
4	11663.19	35.28	38.37	9.03	40.24	42.44	74.00	-31.56	Peak	
Type	802.11n(HT20)	Test channel	CH06	Polarity	Vertical					
<div></div>										
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	4004.08	42.78	33.41	5.15	41.56	39.78	74.00	-34.22	Peak	
2	5836.04	43.13	34.77	6.27	40.32	43.85	74.00	-30.15	Peak	
3	7489.60	39.22	36.00	7.28	40.97	41.53	74.00	-32.47	Peak	
4	10453.95	36.01	37.47	8.52	39.67	42.33	74.00	-31.67	Peak	
Type	802.11n(HT20)	Test channel	CH11	Polarity	Horizontal					
<div></div>										
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3192.37	40.51	34.19	4.58	41.88	37.40	74.00	-36.60	Peak	
2	4617.55	39.51	34.10	5.49	41.13	37.97	74.00	-36.03	Peak	
3	7319.96	37.16	36.00	7.17	41.02	39.31	74.00	-34.69	Peak	
4	9909.80	36.68	37.11	8.29	40.10	41.98	74.00	-32.02	Peak	
Type	802.11n(HT20)	Test channel	CH11	Polarity	Vertical					
<div></div>										
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	3216.84	41.99	33.93	4.60	41.87	38.65	74.00	-35.35	Peak	
2	5271.06	38.84	34.34	5.92	40.69	38.41	74.00	-35.59	Peak	
3	7027.82	37.62	35.93	7.00	41.10	39.45	74.00	-34.55	Peak	
4	10269.32	35.09	37.36	8.47	39.66	41.26	74.00	-32.74	Peak	

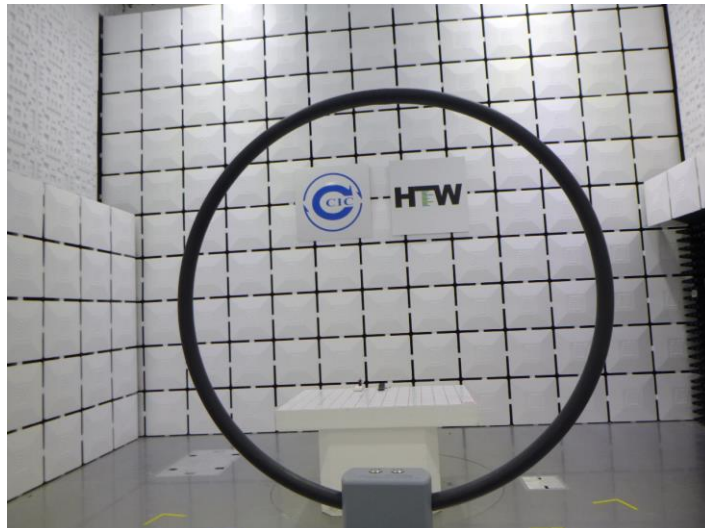
Type	802.11n(HT40)	Test channel	CH03	Polarity	Horizontal																																																						
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Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																		
1	3192.37	41.58	34.19	4.58	41.88	38.47	74.00	-35.53	Peak																																																		
2	5125.52	38.44	34.20	5.83	40.80	37.67	74.00	-36.33	Peak																																																		
3	8166.69	36.28	35.90	7.60	39.83	39.95	74.00	-34.05	Peak																																																		
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Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																		
1	3200.50	41.05	34.39	4.59	41.87	38.16	74.00	-35.84	Peak																																																		
2	6886.15	37.80	35.69	6.95	41.05	39.39	74.00	-34.61	Peak																																																		
3	7961.43	37.53	35.80	7.52	40.33	40.52	74.00	-33.48	Peak																																																		
4	11633.54	34.37	38.34	9.01	40.22	41.50	74.00	-32.50	Peak																																																		
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Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark																																																		
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2	4605.81	40.22	34.10	5.48	41.14	38.66	74.00	-35.34	Peak																																																		
3	5821.21	46.19	34.74	6.26	40.38	46.81	74.00	-27.19	Peak																																																		
4	6363.65	38.86	35.44	6.68	40.69	40.29	74.00	-33.71	Peak																																																		
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4	9784.47	36.35	36.97	8.22	39.89	41.65	74.00	-32.35	Peak																																																		
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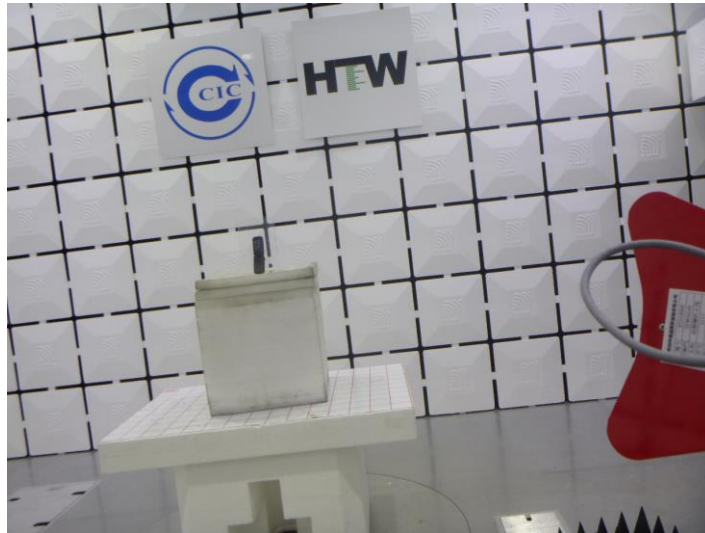
## 6. TEST SETUP PHOTOS

### Conducted Emissions



### Radiated Emissions





## 7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No. CHTEW19110021R1

-----End of Report-----