TEST REPORT

Report Reference No. ..... :	**TRE1803019701**	R/C…….: 35533
FCC ID ..... :	**2AO9X-UI410WC01**	
Applicant's name ..... :	**Outform Science and Technology Ltd.**	
Address.....:	No. A103 Medical Appliance and Industry Garden, #1019, Nanhai road, Nanshan district, Shenzhen 518035, China	
Manufacturer.....:	Outform Science and Technology Ltd.	
Address.....:	No. A103 Medical Appliance and Industry Garden, #1019, Nanhai road, Nanshan district, Shenzhen 518035, China	
Test item description ..... :	**MODULAR DEMO**	
Trade Mark .....:	OUTFORM	
Model/Type reference.....:	UI410W-C01	
Listed Model(s) .....:	-	
Standard ..... :	**FCC CFR Title 47 Part 15 Subpart C Section 15.247**	
Date of receipt of test sample……....:	Mar.27，2018	
Date of testing……..:	Mar.27，2018- Apr.11，2018	
Date of issue……....:	Apr.11，2018	
Result..... ……..:	**PASS**	

Compiled by (position+printedname+signature)...:	File administrators Fanghui Zhu	Fanghui Zhu
Supervised by (position+printedname+signature)....:	Project Engineer Jeff Sun	Jeff Sun
Approved by (position+printedname+signature)....:	RF Manager Hans Hu	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 forTesting Unlicensed Wireless Devices

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

1.2. Report version

Version No.	Date of issue	Description
N/A	Apr.11，2018	Original

2. TEST DESCRIPTION

Test Item	FCC Rule	Result	Test Engineer
Antenna requirement	15.203/15.247(c)	PASS	Jeff Sun
Line Conducted Emissions (AC Main)	15.207	PASS	Alex Guo
Conducted Peak Output Power	15.247(b)(3)	PASS	Baozhu hu
Power Spectral Density	15.247(e)	PASS	Baozhu hu
6dB Bandwidth	15.247(a)(2)	PASS	Baozhu hu
Restricted band	15.247(d)/15.205	PASS	Baozhu hu
Spurious Emissions	15.247(d)/15.209	PASS	Baozhu hu

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

3. SUMMARY

3.1. Client Information

Applicant:	Outform Science and Technology Ltd.
Address:	No. A103 Medical Appliance and Industry Garden, #1019, Nanhai road, Nanshan district, Shenzhen 518035, China
Manufacturer:	Outform Science and Technology Ltd.
Address:	No. A103 Medical Appliance and Industry Garden, #1019, Nanhai road, Nanshan district, Shenzhen 518035, China

3.2. Product Description

Name of EUT:	MODULAR DEMO
Trade Mark:	OUTFORM
Model No.:	UI410W-C01
Listed Model(s):	-
Power supply:	AC 120V/60Hz
Adapter information:	Model: EA10681N-160 Input: 100-240Va.c., 50/60Hz, 2.0A Output: 16Vd.c., 3.75A
WIFI	
Supported type:	802.11b/802.11g/802.11n(HT20)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)
Operation frequency:	2412MHz~2462MHz
Channel number:	11
Channel separation:	5MHz
Antenna type:	FPC
Antenna gain:	2dBi

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
...	...
06	2437
...	...
10	2457
11	2462

➢ **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. 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.

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)

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

4.5. Equipments Used during the Test

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	11/11/2017	11/10/2018
2	Artificial Mains	SCHWARZBECK	NNLK 8121	573	11/11/2017	11/10/2018
3	2-Line V-Network	R&S	ESH3-Z5	100049	11/11/2017	11/10/2018
4	Pulse Limiter	R&S	ESH3-Z2	101488	11/11/2017	11/10/2018
5	RF Connection Cable	HUBER+SUHNER	EF400	N/A	11/21/2017	11/20/2018
6	Test Software	R&S	ES-K1	N/A	N/A	N/A

Radiated Emissions						
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-01	C11121	10/16/2016	10/15/2019
2	EMI Test Receiver	R&S	ESCI	100900	11/11/2017	11/10/2018
3	Loop Antenna	R&S	HFH2-Z2	100020	11/20/2017	11/19/2020
4	Ultra-Broadband Antenna	SCHWARZBECK	VULB9163	538	4/5/2017	4/4/2020
5	Horn Antenna	SCHWARZBECK	9120D	1011	3/27/2017	3/26/2020
6	Broadband Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170 472	3/27/2017	3/26/2020
7	Pre-amplifier	SCHWARZBECK	BBV 9743	9743-0022	10/18/2017	10/17/2018
8	Broadband Pre-amplifier	SCHWARZBECK	BBV 9718	9718-248	10/18/2017	10/17/2018
9	Spectrum Analyzer	R&S	FSP40	100597	11/11/2017	11/10/2018
10	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	11/21/2017	11/20/2018
11	RF Connection Cable	HUBER+SUHNER	RE-7-FH	N/A	11/21/2017	11/20/2018
12	Test Software	Audix	E3	N/A	N/A	N/A
13	Test Software	R&S	ES-K1	N/A	N/A	N/A
14	Turntable	Maturo Germany	TT2.0-1T	N/A	N/A	N/A
15	Antenna Mast	Maturo Germany	CAM-4.0-P-12	N/A	N/A	N/A

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	11/11/2017	11/10/2018
2	EXA Signal Analyzer	Agilent	N9020A	184247	9/22/2017	9/21/2018
3	Power Meter	Agilent	U2021XA	178231	9/22/2017	9/21/2018
4	OSP	R&S	OSP120	101317	N/A	N/A

The Cal.Interval was one year.

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.

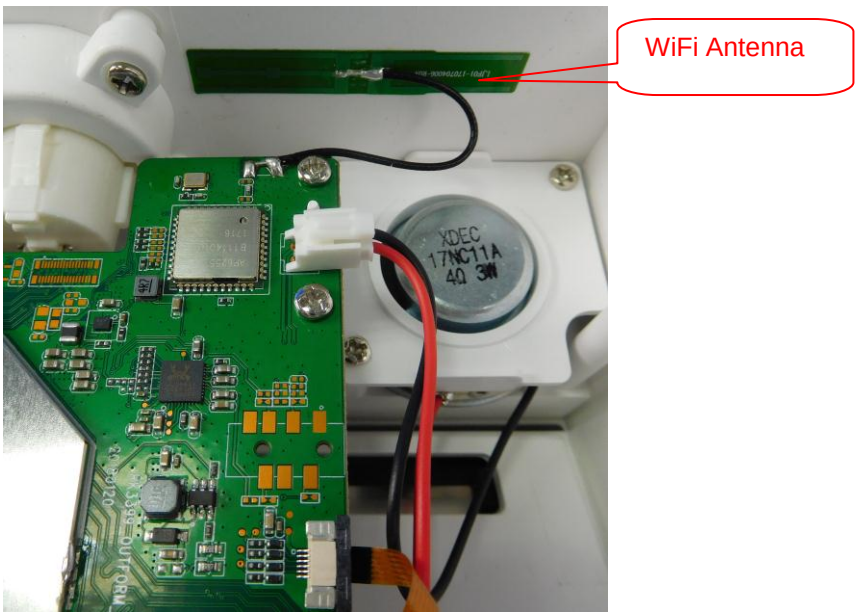
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(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

☒ **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)

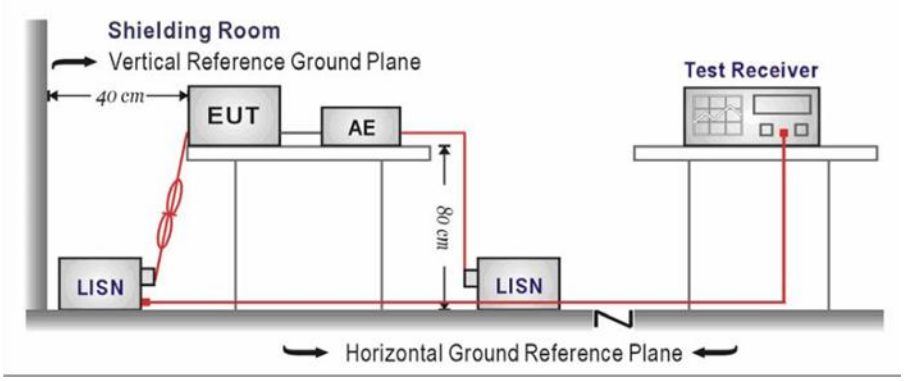
LIMIT

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:

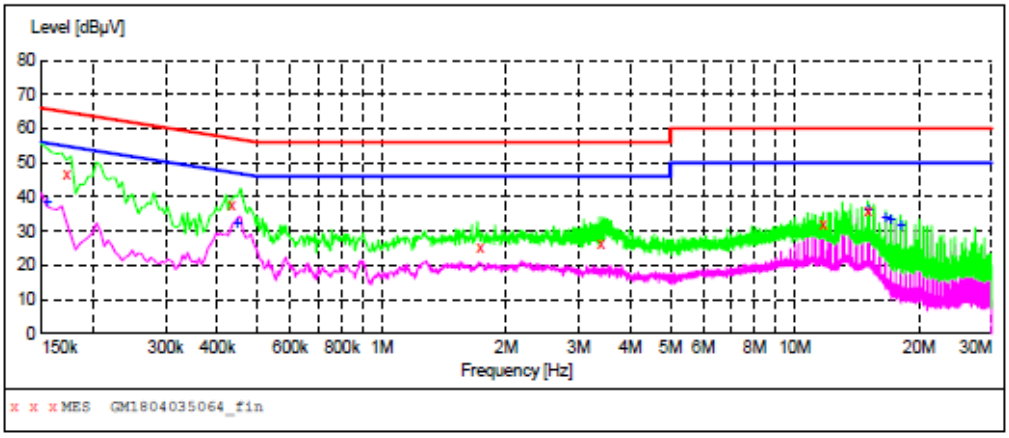
Please refer to the clause 3.3

TEST RESULTS

☒ **Passed** ☐ **Not Applicable**

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

Test Line:	L



MEASUREMENT RESULT: "GM1804035064_fin"

4/3/2018 4:29PM

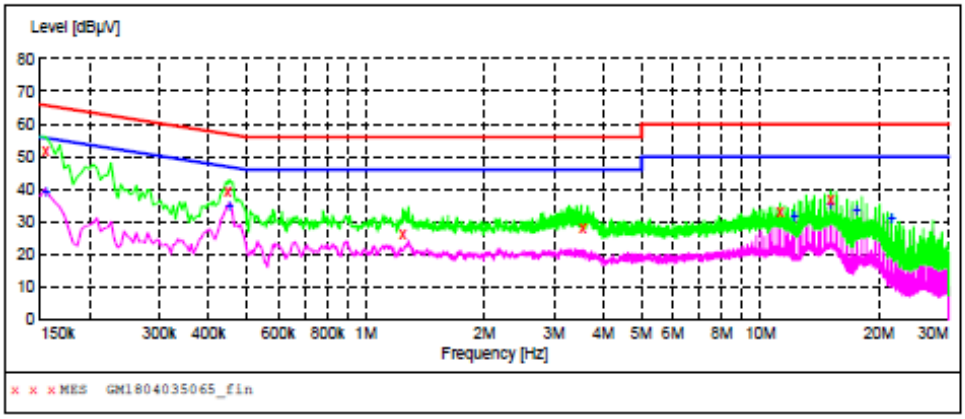
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.172500	46.90	10.0	65	17.9	QP	L1	GND
0.433500	37.70	9.9	57	19.5	QP	L1	GND
1.729500	25.00	10.1	56	31.0	QP	L1	GND
3.399000	26.10	10.1	56	29.9	QP	L1	GND
11.724000	32.00	10.5	60	28.0	QP	L1	GND
15.058500	36.10	10.5	60	23.9	QP	L1	GND

MEASUREMENT RESULT: "GM1804035064_fin2"

4/3/2018 4:29PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.154500	38.70	10.0	56	17.1	AV	L1	GND
0.447000	32.60	9.9	47	14.3	AV	L1	GND
15.054000	36.30	10.5	50	13.7	AV	L1	GND
16.606500	34.20	10.5	50	15.8	AV	L1	GND
17.097000	33.50	10.6	50	16.5	AV	L1	GND
18.073500	32.20	10.6	50	17.8	AV	L1	GND

Test Line:	N



MEASUREMENT RESULT: "GM1804035065_fin"

4/3/2018 4:32PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.154500	51.40	10.0	66	14.4	QP	N	GND
0.447000	39.20	9.9	57	17.7	QP	N	GND
1.243500	26.20	10.1	56	29.8	QP	N	GND
3.547500	27.80	10.1	56	28.2	QP	N	GND
11.233500	32.90	10.4	60	27.1	QP	N	GND
15.054000	36.80	10.5	60	23.2	QP	N	GND

MEASUREMENT RESULT: "GM1804035065_fin2"

4/3/2018 4:32PM

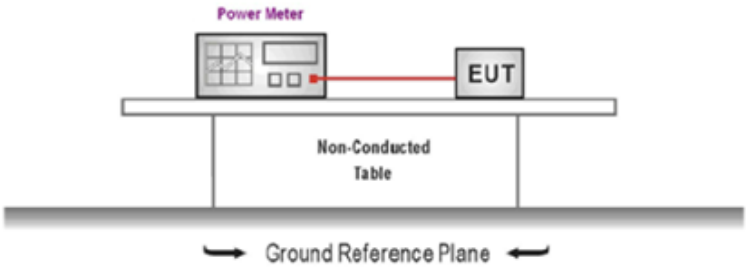
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.154500	39.10	10.0	56	16.7	AV	N	GND
0.451500	35.10	9.9	47	11.7	AV	N	GND
12.210000	31.70	10.5	50	18.3	AV	N	GND
15.058500	35.80	10.5	50	14.2	AV	N	GND
17.565000	34.00	10.6	50	16.0	AV	N	GND
21.493500	30.90	10.7	50	19.1	AV	N	GND

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**

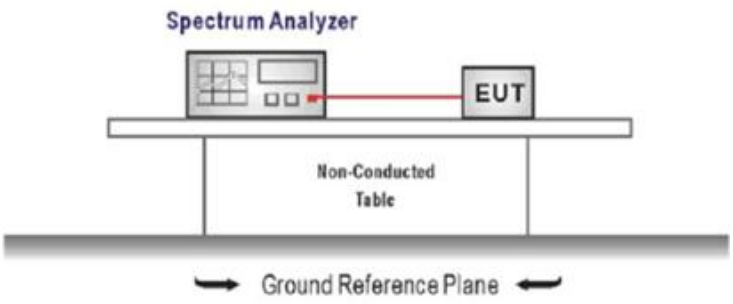
Type	Channel	Output power (dBm)	Limit (dBm)	Result
802.11b	01	17.95	≤30.00	Pass
	06	17.83		
	11	17.78		
802.11g	01	21.38	≤30.00	Pass
	06	21.21		
	11	21.21		
802.11n(HT20)	01	20.99	≤30.00	Pass
	06	20.52		
	11	20.43		

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 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:

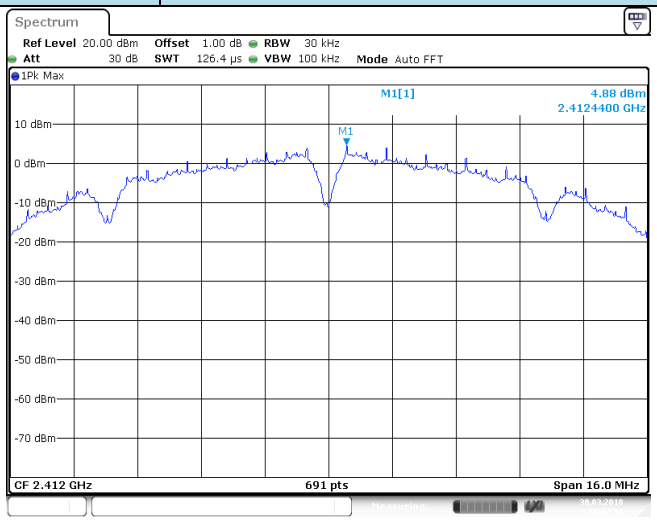
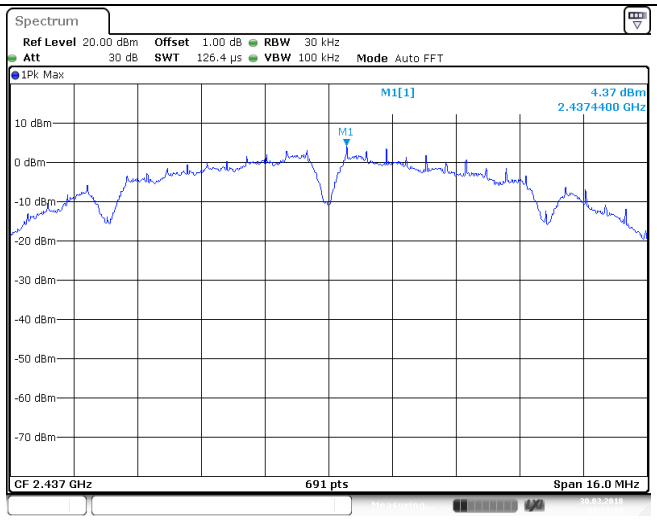
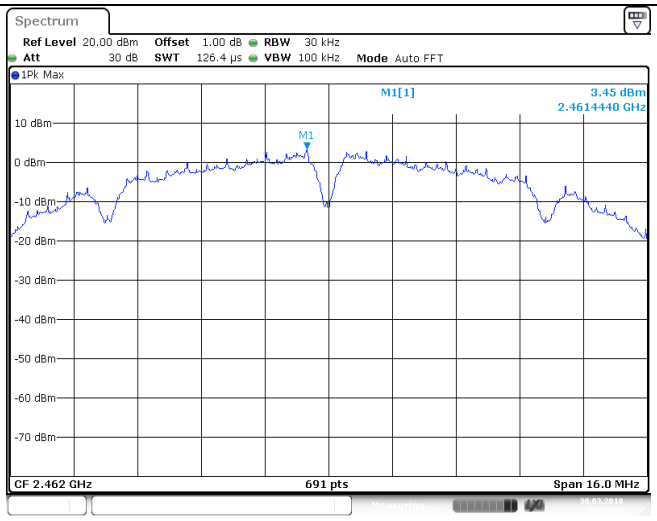
Please refer to the clause 3.3

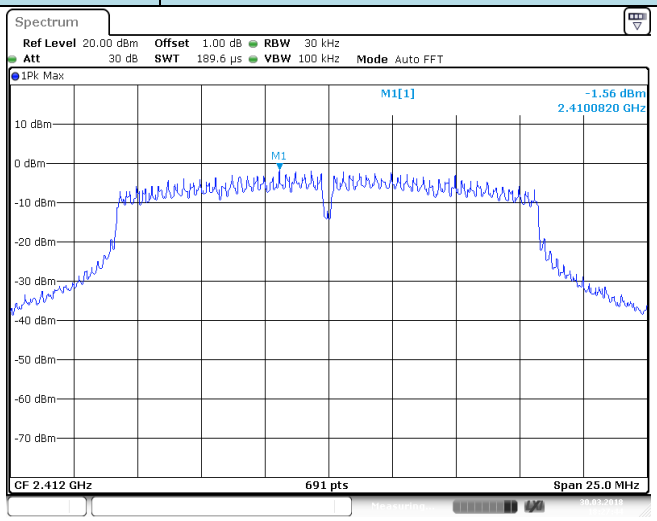
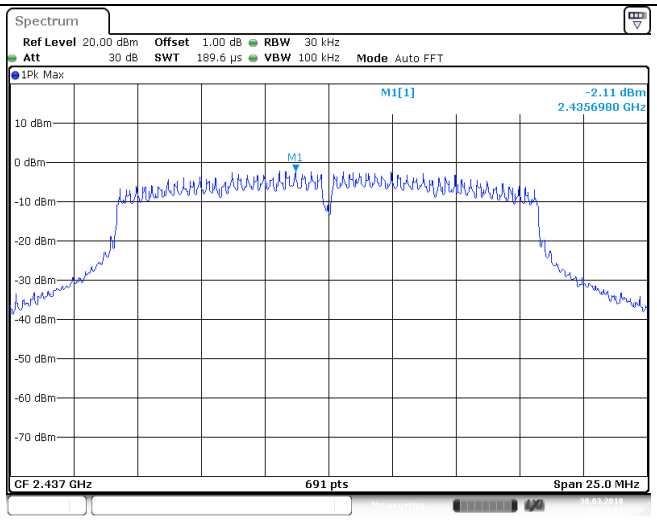
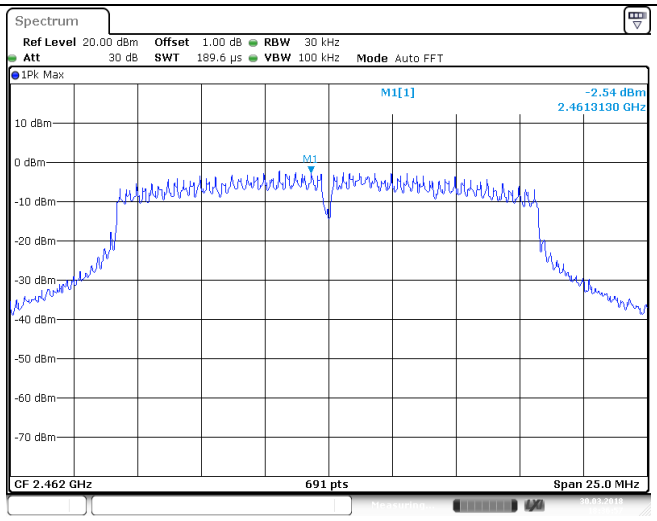
TEST RESULTS

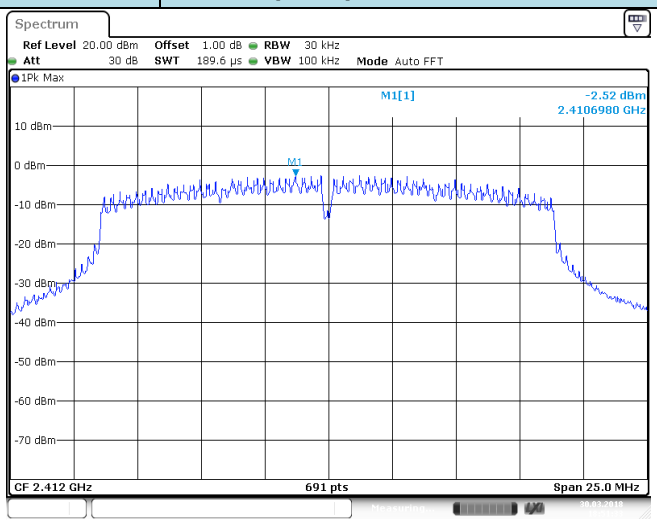
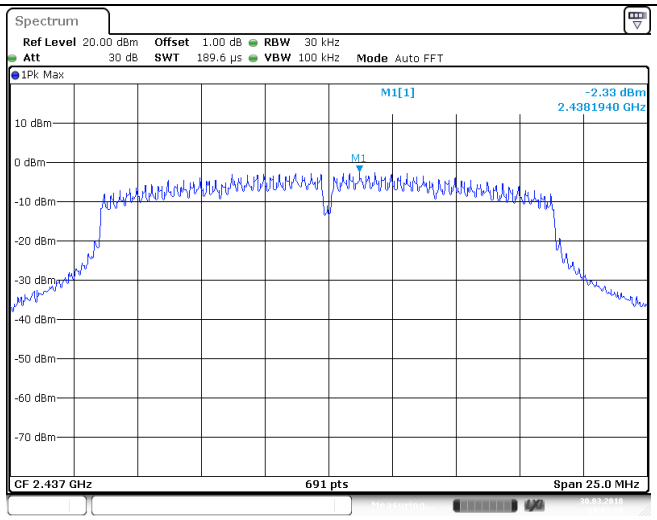
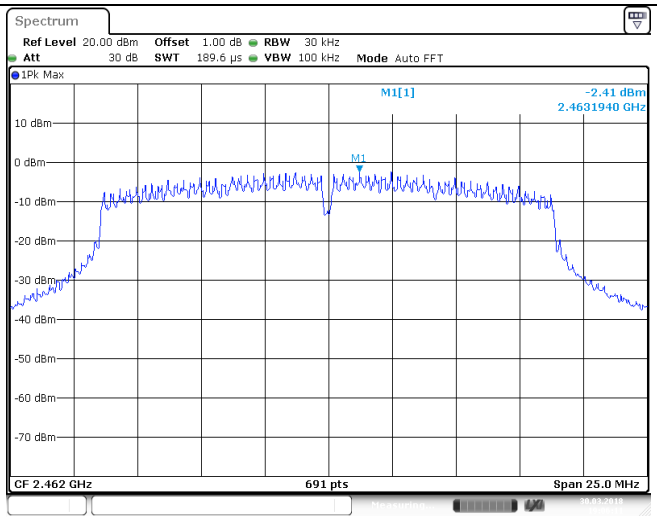
☒ **Passed** ☐ **Not Applicable**

Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	4.88	≤8.00	Pass
	06	4.37		
	11	3.45		
802.11g	01	-1.56	≤8.00	Pass
	06	-2.11		
	11	-2.54		
802.11n(HT20)	01	-2.52	≤8.00	Pass
	06	-2.33		
	11	-2.41		

Test plot as follows:

Type:	802.11 b
CH01	
CH06	
CH11	

Type:	802.11 g
CH01	
CH06	
CH11	

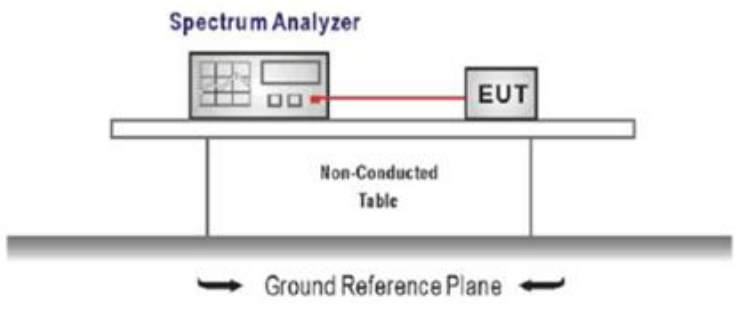
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

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 ≥ 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:

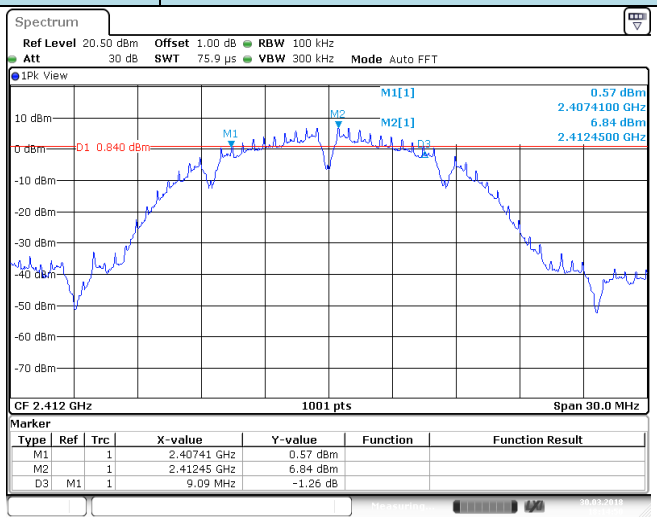
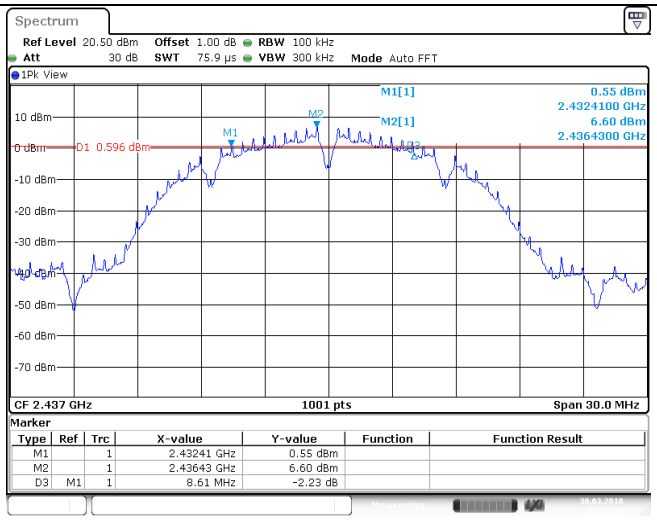
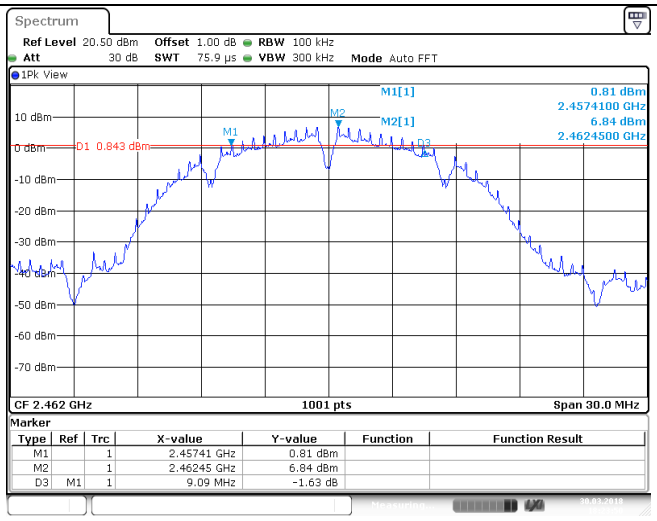
Please refer to the clause 3.3

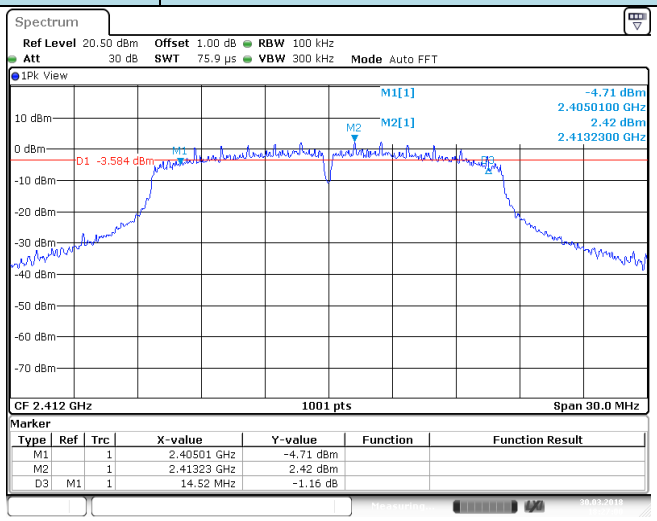
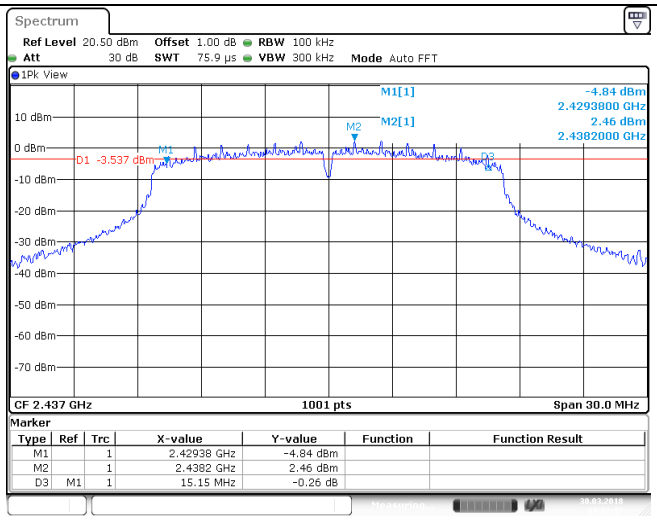
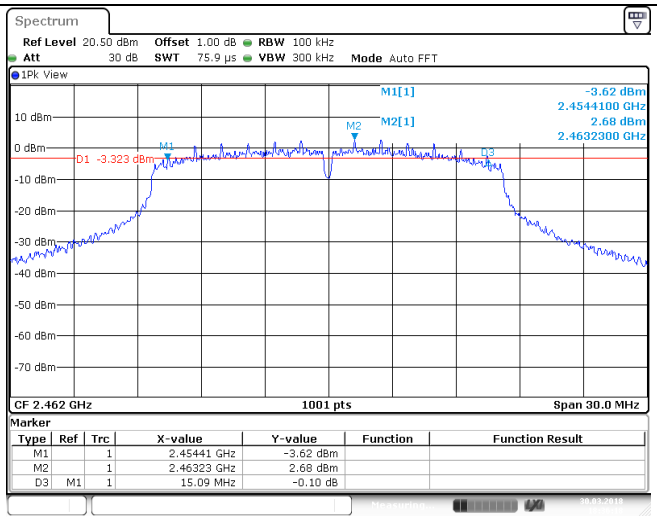
TEST RESULTS

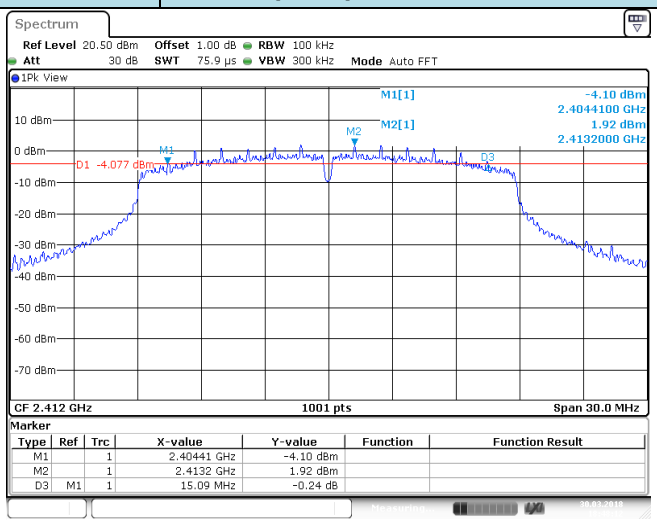
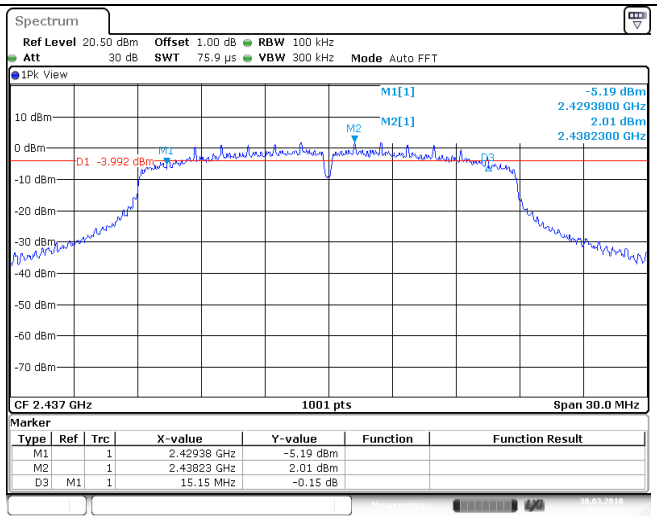
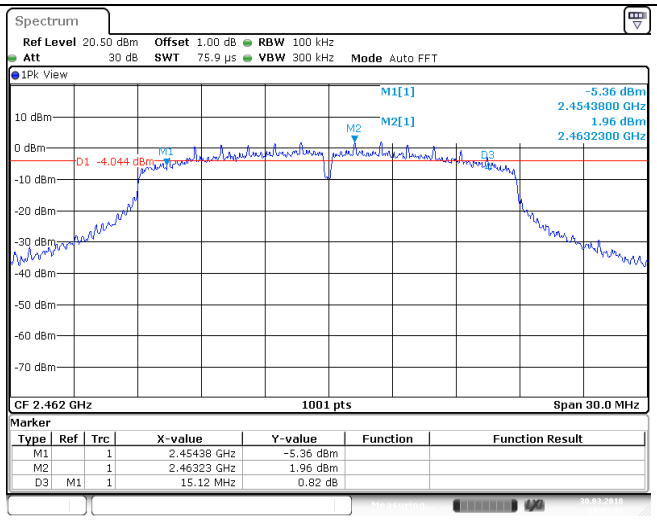
☒ **Passed** ☐ **Not Applicable**

Type	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	9.09	≥500	Pass
	06	8.61		
	11	9.09		
802.11g	01	14.52	≥500	Pass
	06	15.15		
	11	15.09		
802.11n(HT20)	01	15.09	≥500	Pass
	06	15.15		
	11	15.12		

Test plot as follows:

Type:	802.11 b
CH01	
CH06	
CH11	

Type:	802.11 g
CH01	
CH06	
CH11	

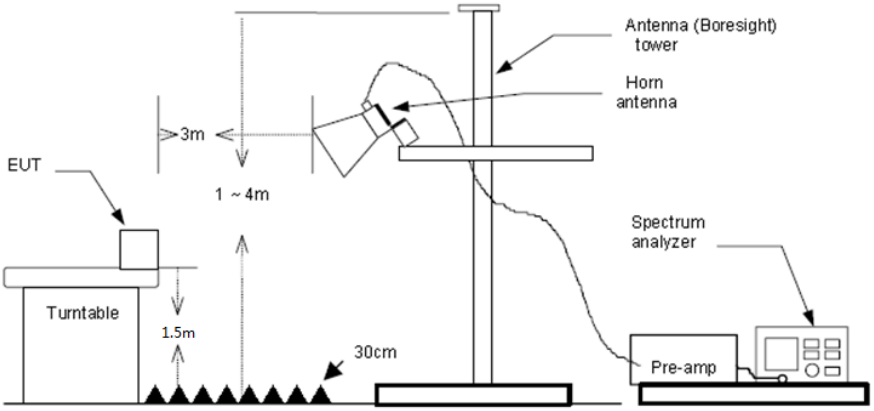
Type:	802.11n(HT20)
CH01	
CH06	
CH11	

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 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

☒ **Passed** ☐ **Not Applicable**

Note:
1) Final level= Read level + Antenna Factor+ Cable Loss- Preamp Factor

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	15.73	28.05	6.62	0.00	50.40	74.00	-23.60	Vertical	Peak
2390.01	13.82	27.65	6.75	0.00	48.22	74.00	-25.78	Vertical	Peak
2310.00	14.63	28.05	6.62	0.00	49.30	74.00	-24.70	Horizontal	Peak
2390.01	14.85	27.65	6.75	0.00	49.25	74.00	-24.75	Horizontal	Peak
2310.00	10.98	28.05	6.62	0.00	45.65	54.00	-8.35	Vertical	Average
2390.01	10.89	27.65	6.75	0.00	45.29	54.00	-8.71	Vertical	Average
2310.00	10.96	28.05	6.62	0.00	45.63	54.00	-8.37	Horizontal	Average
2390.01	11.09	27.65	6.75	0.00	45.49	54.00	-8.51	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	13.42	27.26	6.83	0.00	47.51	74.00	-26.49	Vertical	Peak
2500.00	13.89	27.20	6.84	0.00	47.93	74.00	-26.07	Vertical	Peak
2483.49	13.77	27.26	6.83	0.00	47.86	74.00	-26.14	Horizontal	Peak
2500.00	13.03	27.20	6.84	0.00	47.07	74.00	-26.93	Horizontal	Peak
2483.49	10.50	27.26	6.83	0.00	44.59	54.00	-9.41	Vertical	Average
2500.00	10.57	27.20	6.84	0.00	44.61	54.00	-9.39	Vertical	Average
2483.49	10.90	27.26	6.83	0.00	44.99	54.00	-9.01	Horizontal	Average
2500.00	10.55	27.20	6.84	0.00	44.59	54.00	-9.41	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	13.88	28.05	6.62	0.00	48.55	74.00	-25.45	Vertical	Peak
2390.01	15.26	27.65	6.75	0.00	49.66	74.00	-24.34	Vertical	Peak
2310.00	14.07	28.05	6.62	0.00	48.74	74.00	-25.26	Horizontal	Peak
2390.01	14.30	27.65	6.75	0.00	48.70	74.00	-25.30	Horizontal	Peak
2310.00	10.89	28.05	6.62	0.00	45.56	54.00	-8.44	Vertical	Average
2390.01	10.59	27.65	6.75	0.00	44.99	54.00	-9.01	Vertical	Average
2310.00	10.86	28.05	6.62	0.00	45.53	54.00	-8.47	Horizontal	Average
2390.01	10.59	27.65	6.75	0.00	44.99	54.00	-9.01	Horizontal	Average

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	13.39	27.26	6.83	0.00	47.48	74.00	-26.52	Vertical	Peak
2500.00	14.20	27.20	6.84	0.00	48.24	74.00	-25.76	Vertical	Peak
2483.49	12.95	27.26	6.83	0.00	47.04	74.00	-26.96	Horizontal	Peak
2500.00	13.64	27.20	6.84	0.00	47.68	74.00	-26.32	Horizontal	Peak
2483.49	10.68	27.26	6.83	0.00	44.77	54.00	-9.23	Vertical	Average
2500.00	10.75	27.20	6.84	0.00	44.79	54.00	-9.21	Vertical	Average
2483.49	10.54	27.26	6.83	0.00	44.63	54.00	-9.37	Horizontal	Average
2500.00	10.44	27.20	6.84	0.00	44.48	54.00	-9.52	Horizontal	Average

802.11n(HT20)					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	13.23	28.05	6.62	0.00	47.90	74.00	-26.10	Vertical	Peak
2390.01	12.76	27.65	6.75	0.00	47.16	74.00	-26.84	Vertical	Peak
2310.00	14.61	28.05	6.62	0.00	49.28	74.00	-24.72	Horizontal	Peak
2390.01	13.54	27.65	6.75	0.00	47.94	74.00	-26.06	Horizontal	Peak
2310.00	10.85	28.05	6.62	0.00	45.52	54.00	-8.48	Vertical	Average
2390.01	10.66	27.65	6.75	0.00	45.06	54.00	-8.94	Vertical	Average
2310.00	10.84	28.05	6.62	0.00	45.51	54.00	-8.49	Horizontal	Average
2390.01	11.48	27.65	6.75	0.00	45.88	54.00	-8.12	Horizontal	Average

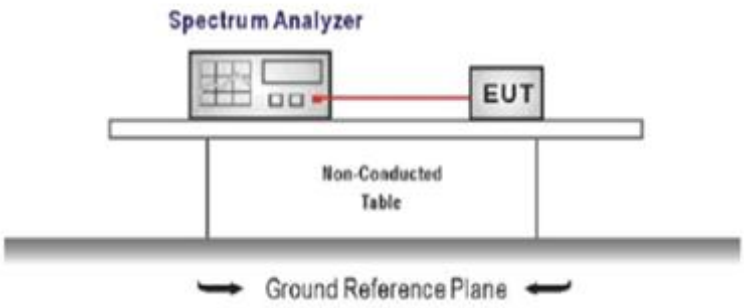
802.11n(HT20)					CH11				
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	Test value
2483.49	14.56	27.26	6.83	0.00	48.65	74.00	-25.35	Vertical	Peak
2500.00	14.15	27.20	6.84	0.00	48.19	74.00	-25.81	Vertical	Peak
2483.49	15.01	27.26	6.83	0.00	49.10	74.00	-24.90	Horizontal	Peak
2500.00	13.96	27.20	6.84	0.00	48.00	74.00	-26.00	Horizontal	Peak
2483.49	10.76	27.26	6.83	0.00	44.85	54.00	-9.15	Vertical	Average
2500.00	10.49	27.20	6.84	0.00	44.53	54.00	-9.47	Vertical	Average
2483.49	10.42	27.26	6.83	0.00	44.51	54.00	-9.49	Horizontal	Average
2500.00	10.43	27.20	6.84	0.00	44.47	54.00	-9.53	Horizontal	Average

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

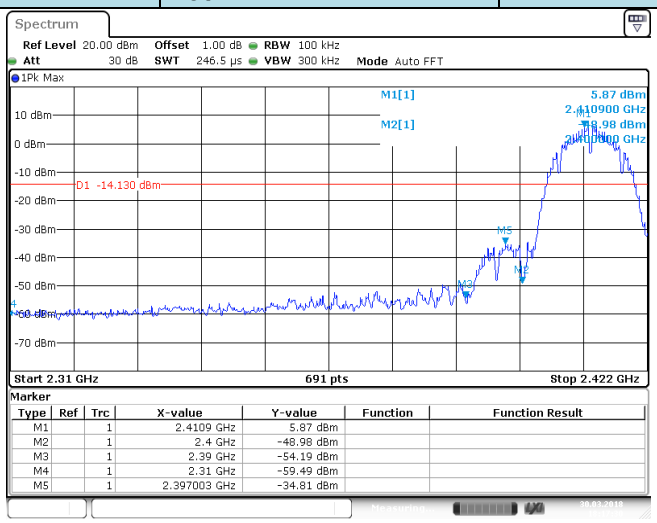
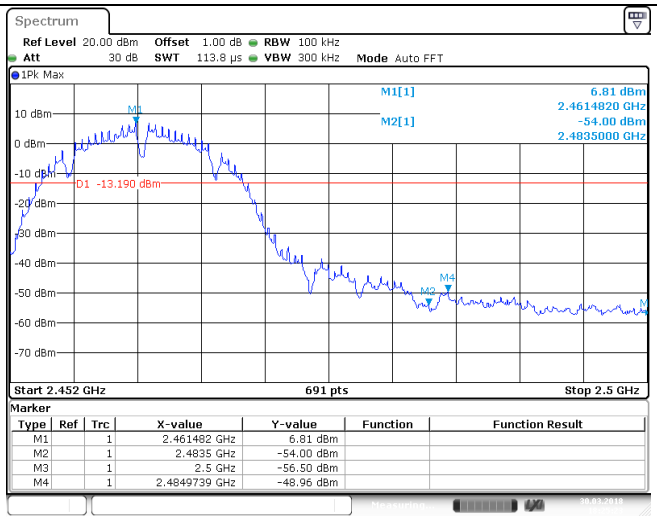
   Note: the channel found to contain the maximum PSD level can be used to establish the reference level.
3. Emission level measurement
   Set the center frequency and span to encompass frequency range to be measured
   RBW = 100 kHz, VBW ≥ 3 x RBW
   Detector = peak, Sweep time = auto couple, Trace mode = 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.

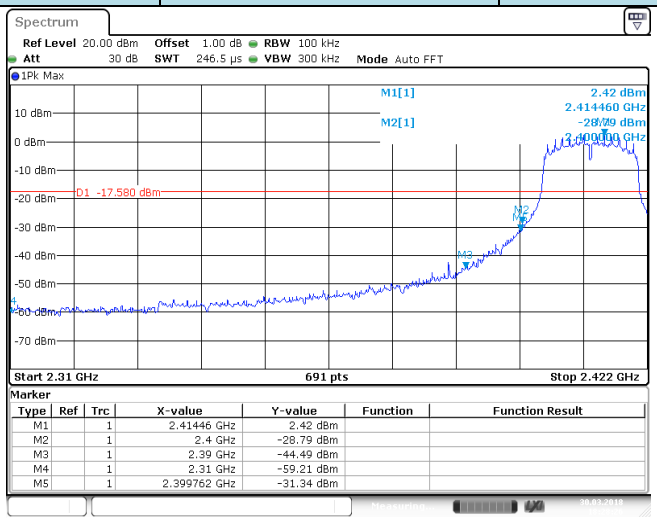
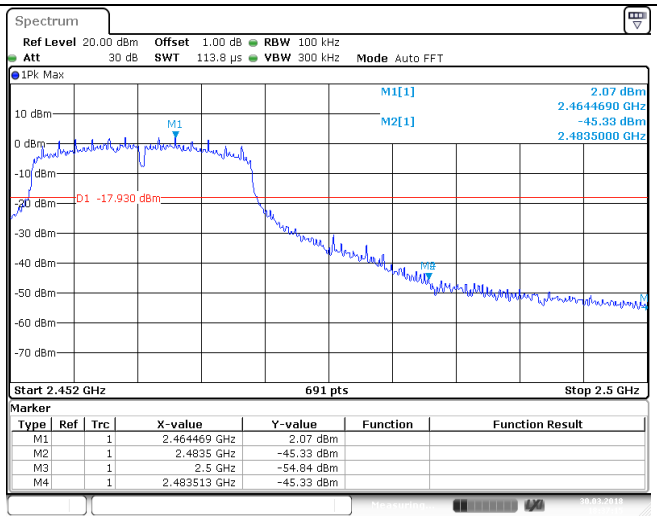
TEST MODE:

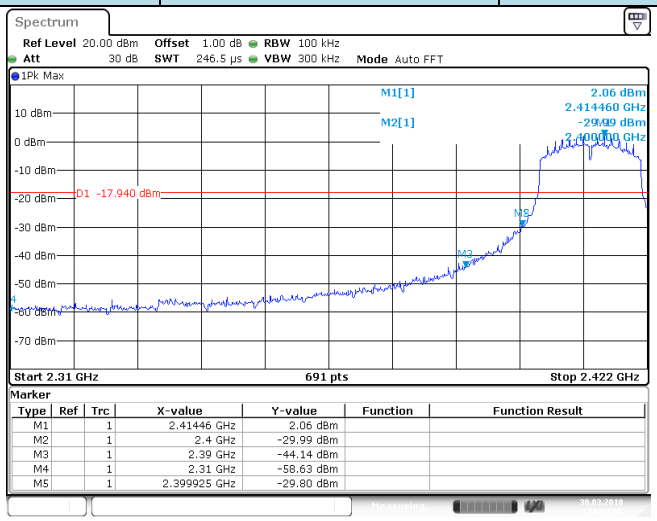
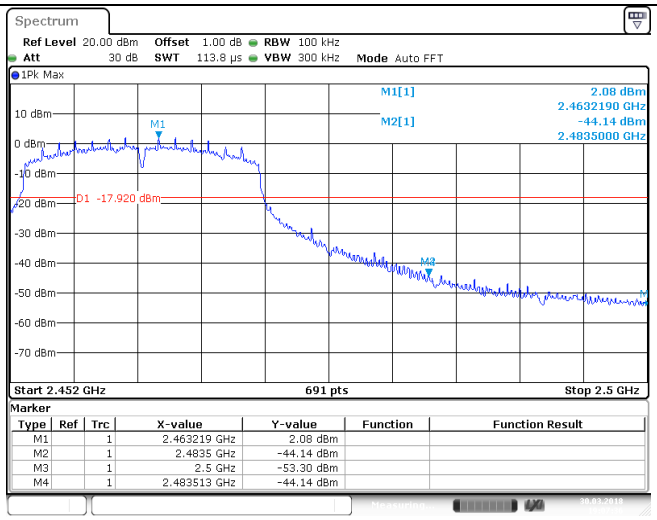
Please refer to the clause 3.3

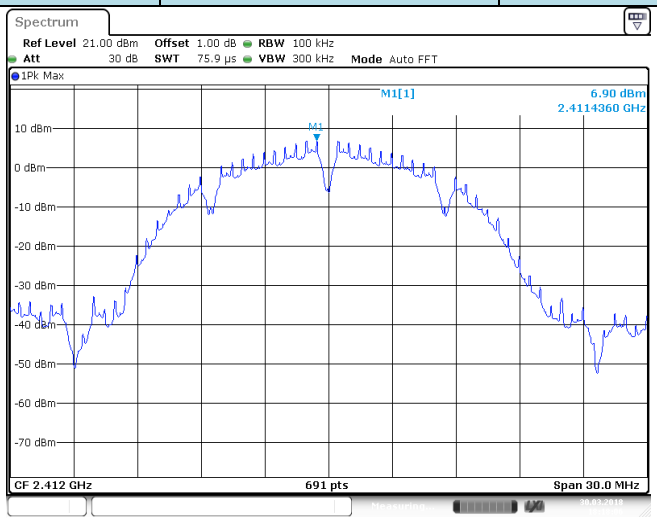
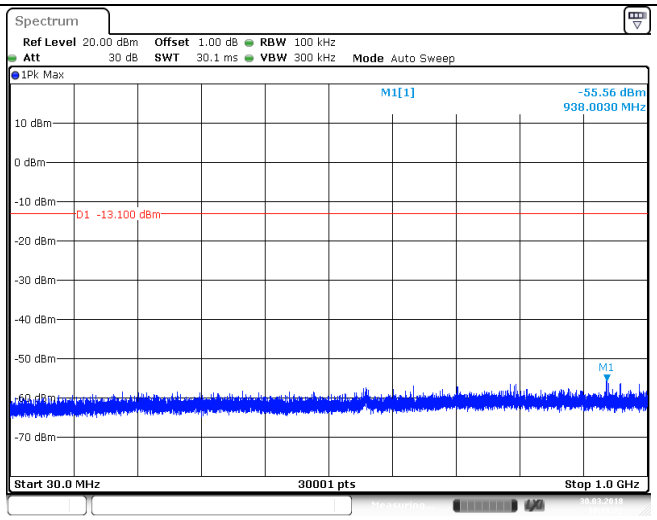
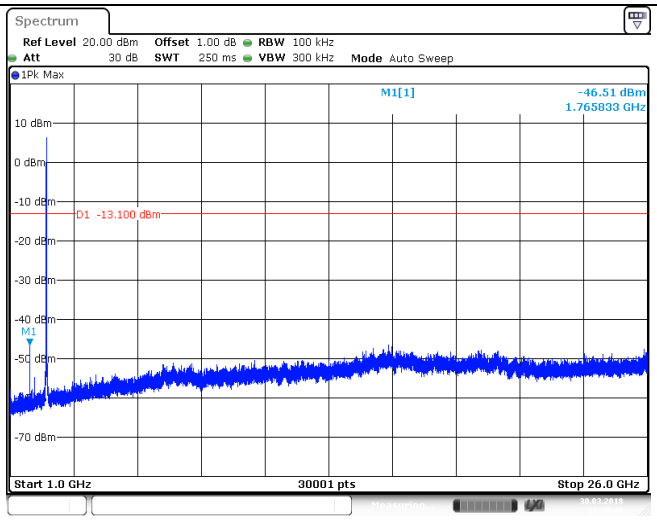
TEST RESULTS

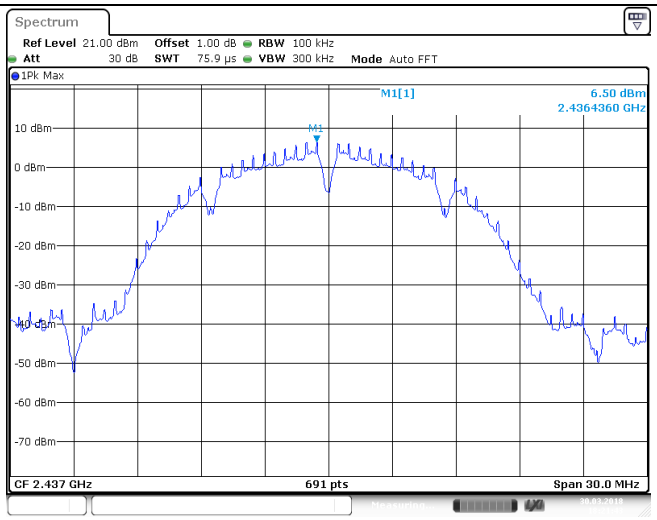
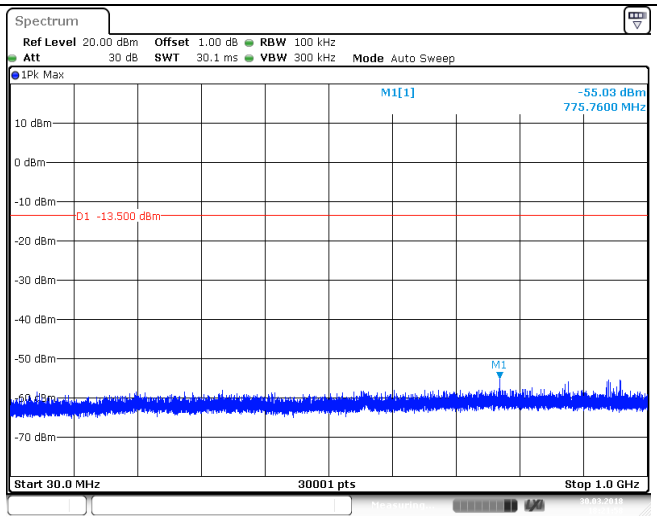
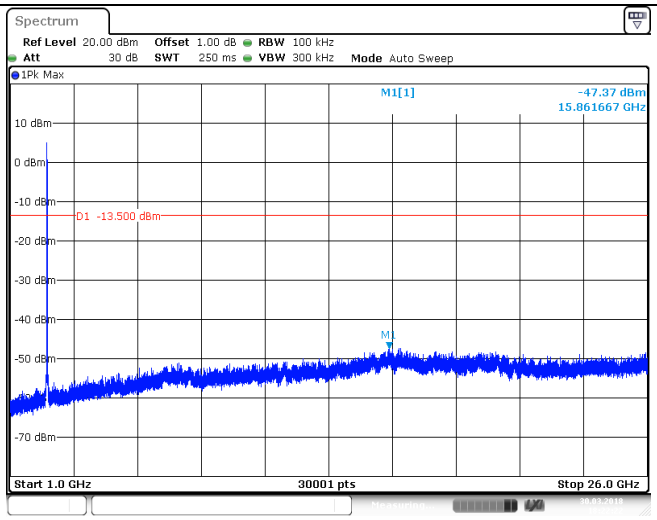
☒ **Passed** ☐ **Not Applicable**

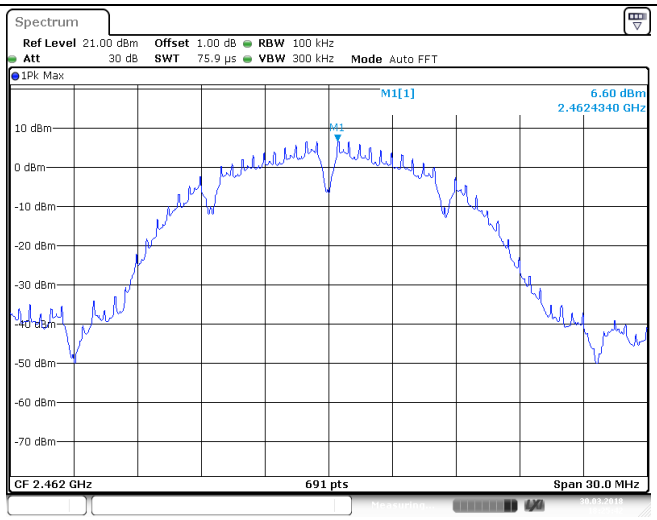
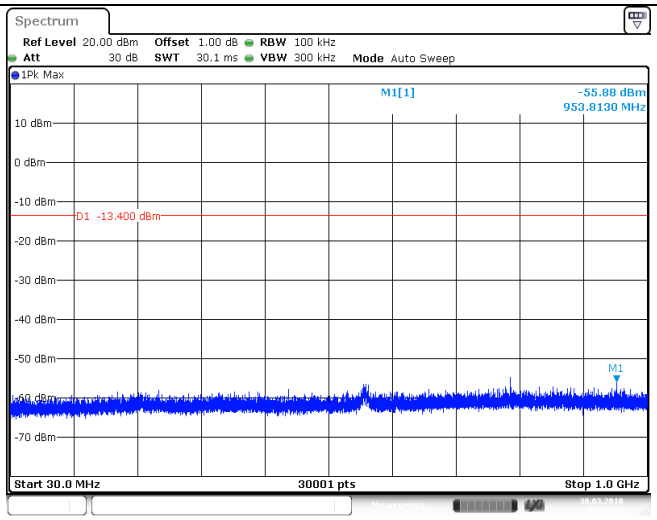
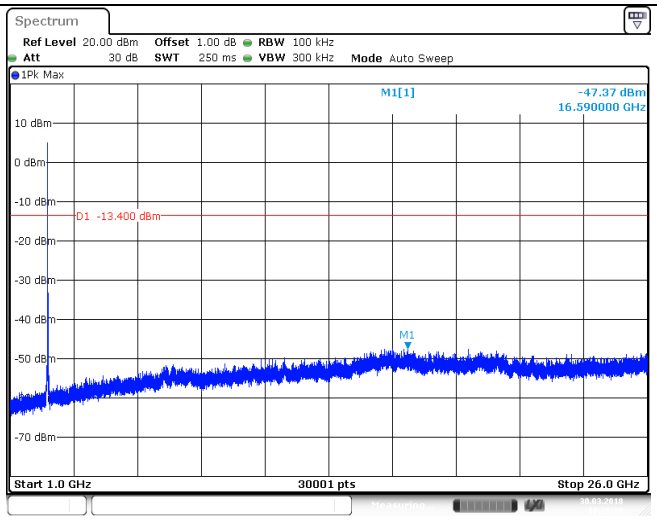
Test Item:	Bandedge	Type:	802.11 b
CH01			
CH11			

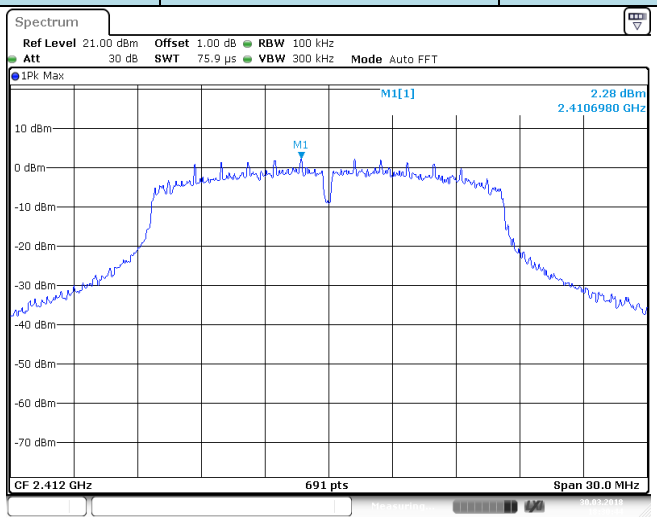
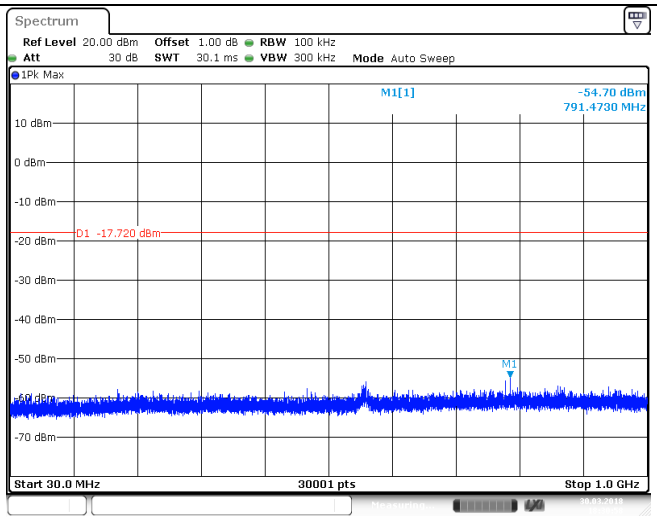
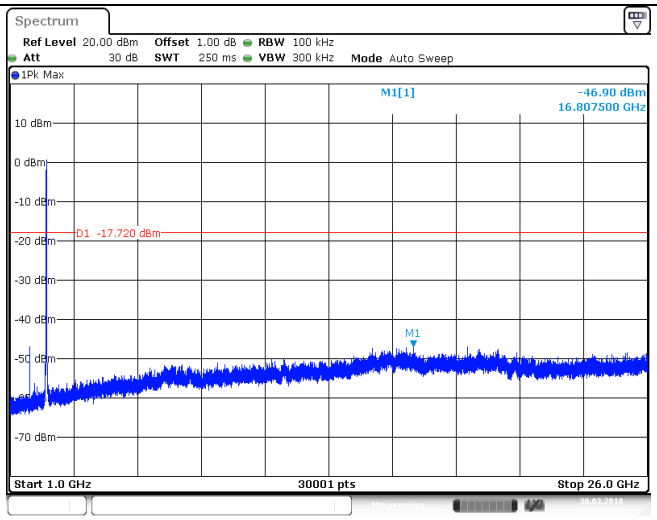
Test Item:	Bandedge	Type:	802.11 g
CH01			
CH11			

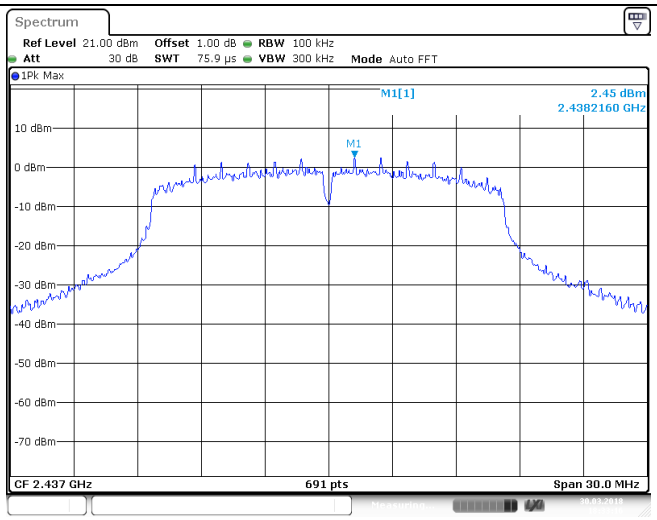
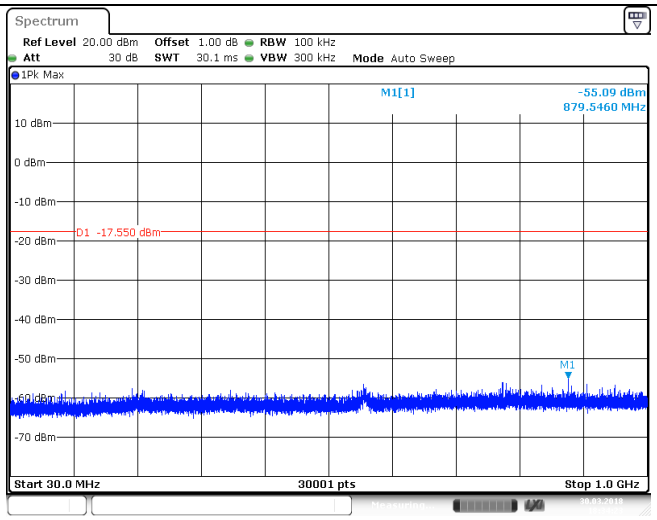
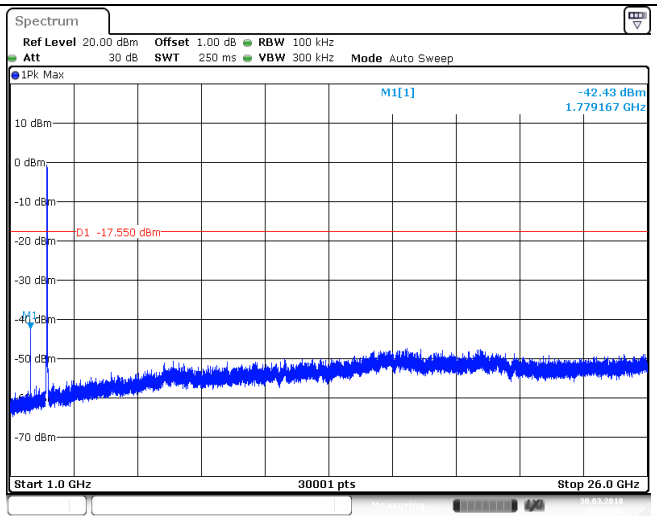
Test Item:	Bandedge	Type:	802.11 n(HT20)
CH01			
CH11			

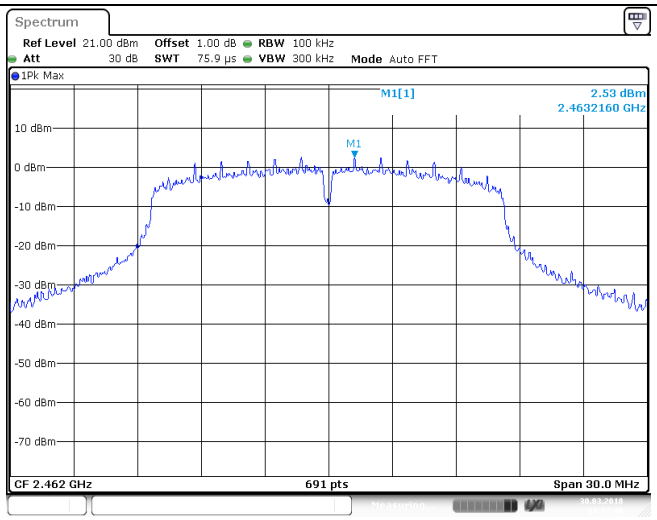
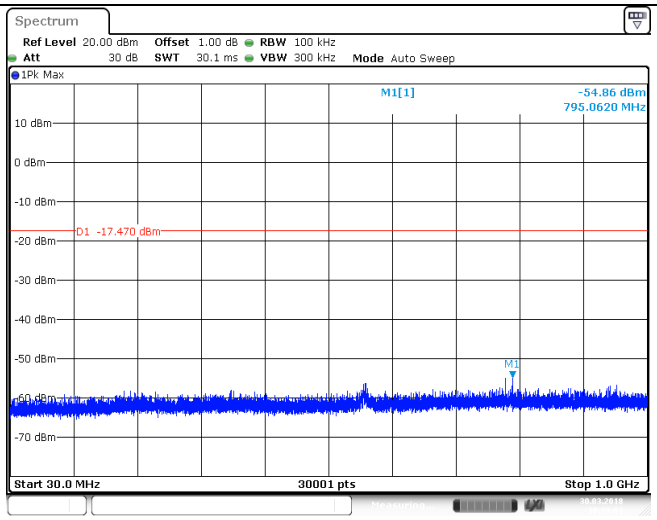
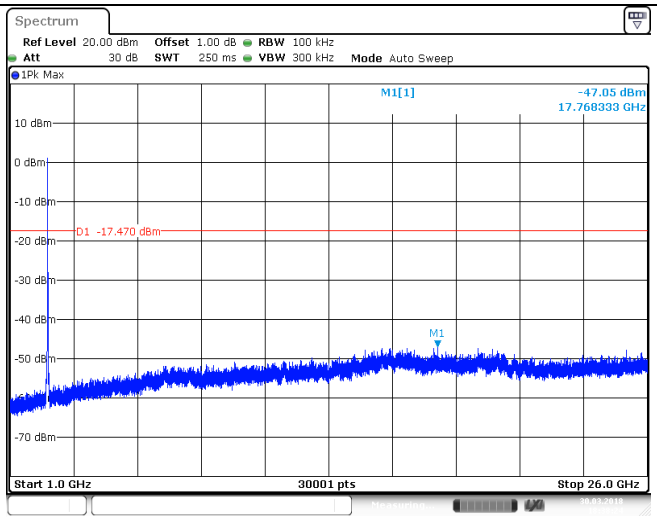
Test Item:	SE	Type:	802.11 b
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

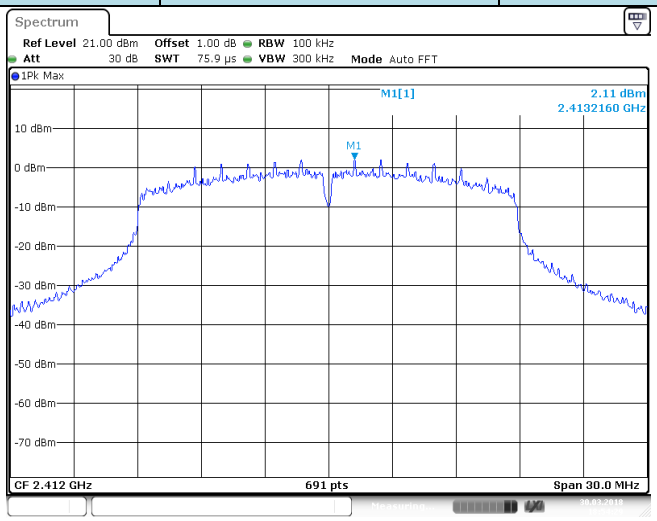
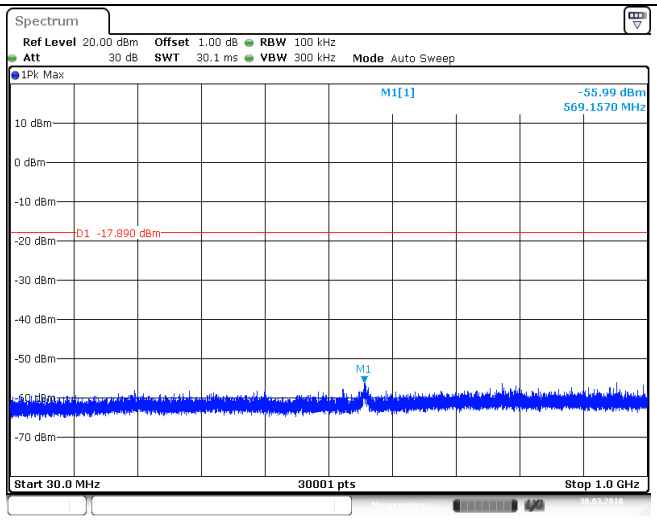
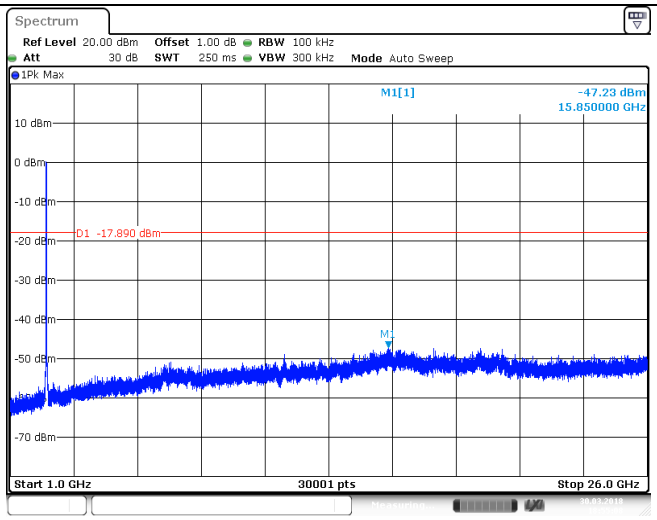
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

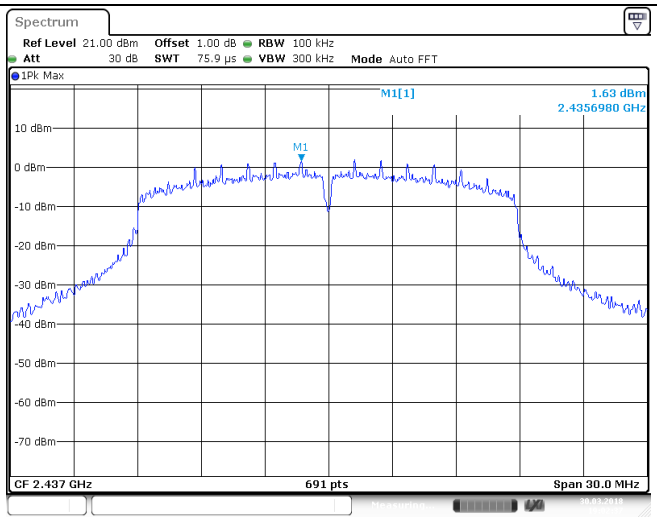
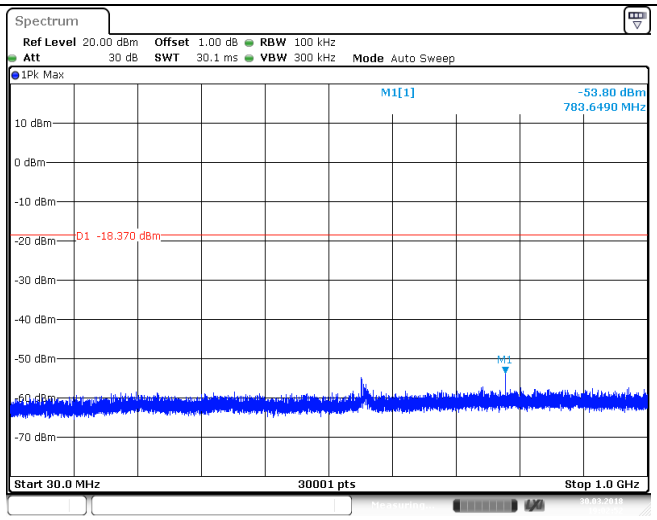
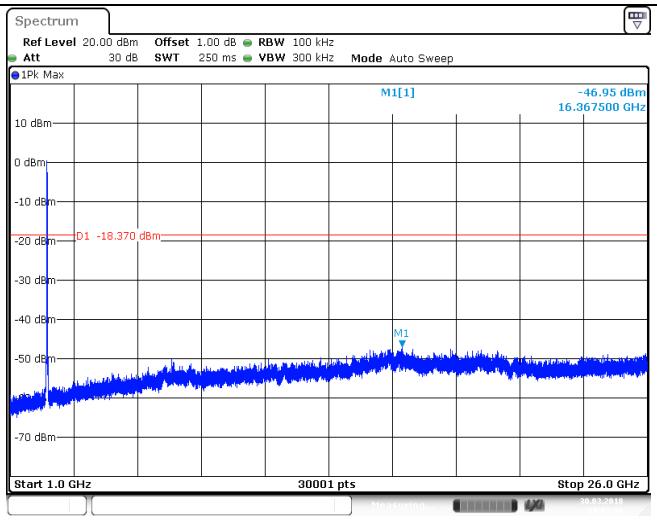
CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

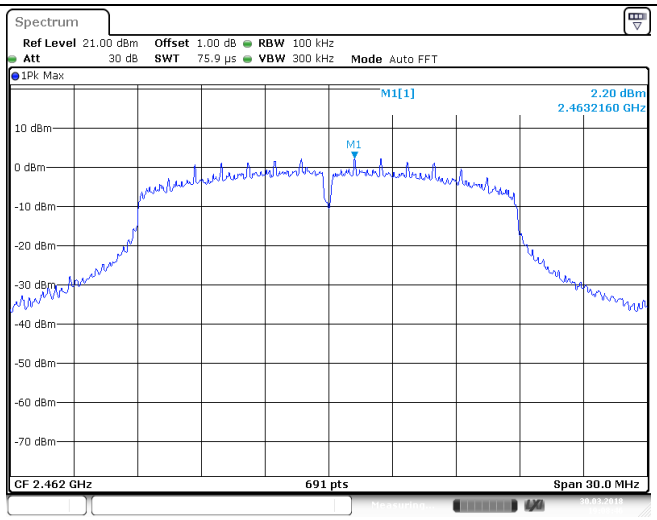
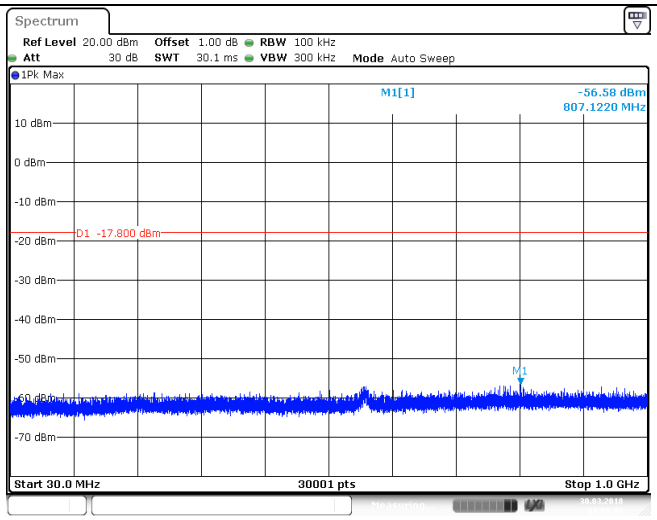
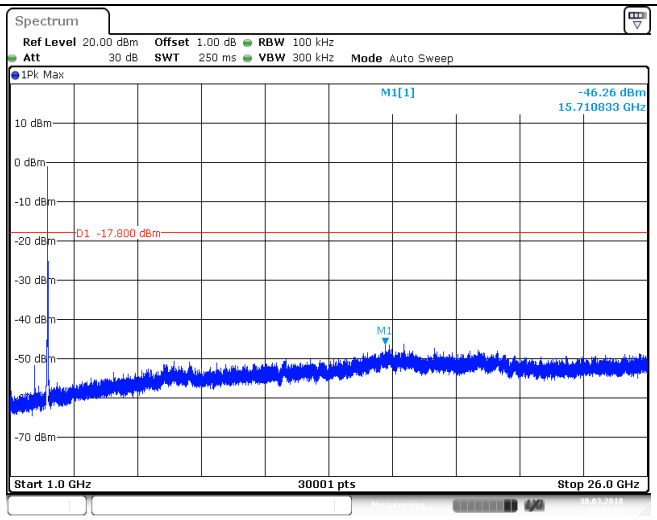
Test Item:	SE	Type:	802.11 g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

Test Item:	SE	Type:	802.11 n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			

CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	

CH11 Reference level	
CH11 30MHz~1000MHz	
CH11 1GHz~26GHz	

5.8. Spurious Emissions (radiated)

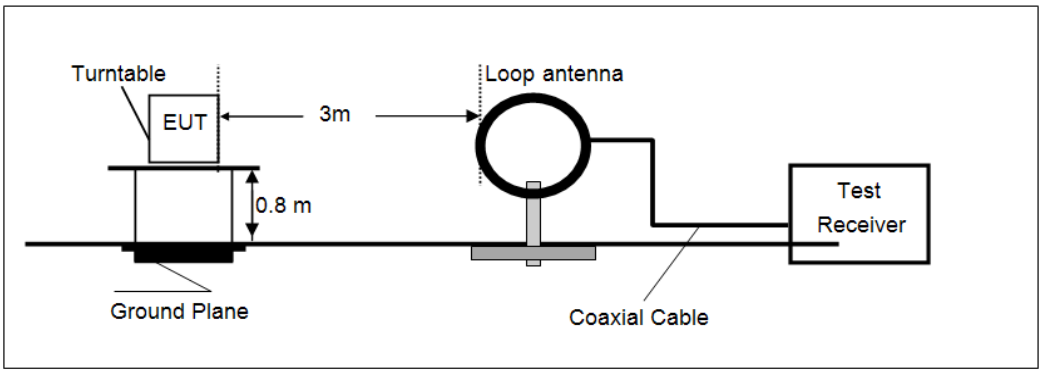
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

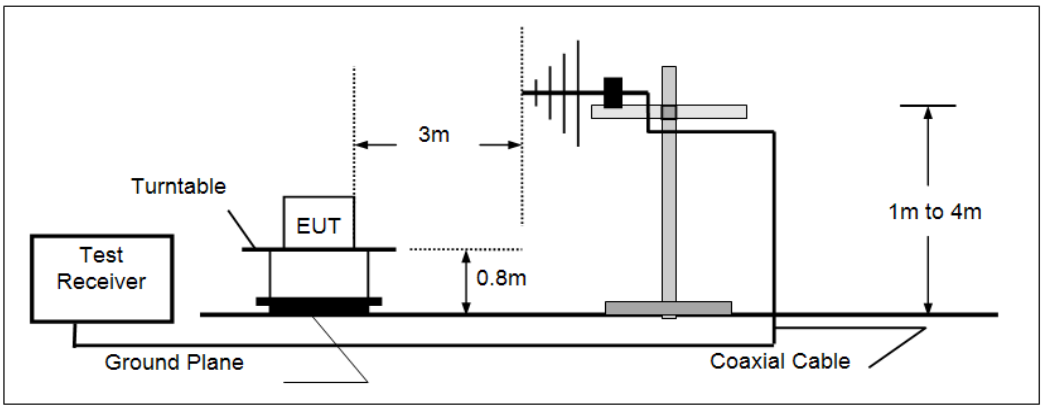
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

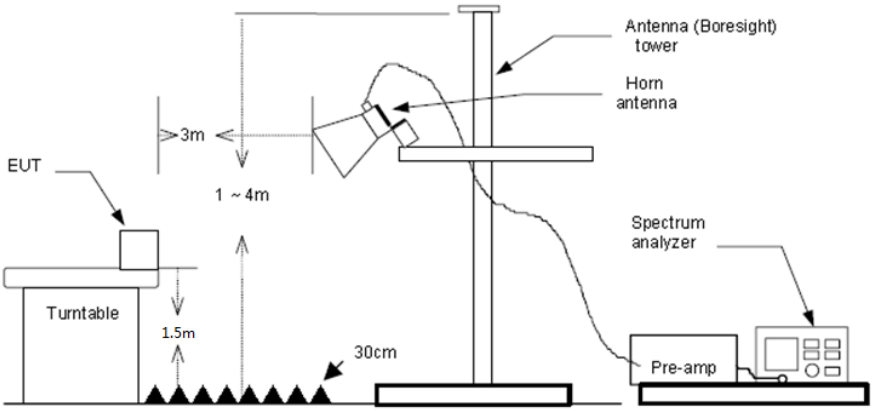
➢ 9kHz ~30MHz



➢ 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=QP, 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 10th 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**

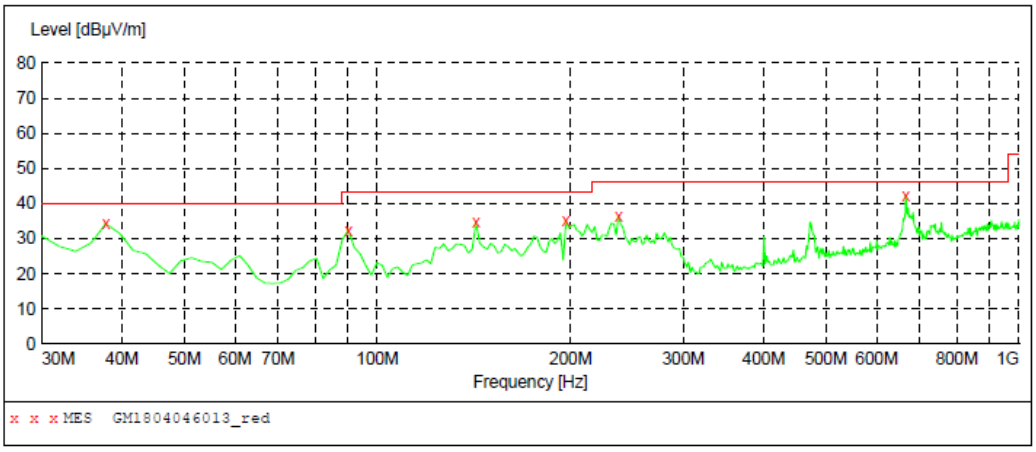
Note:
1) Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2) The emission levels of other frequencies are very lower than the limit and not show in test report.

- **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, 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

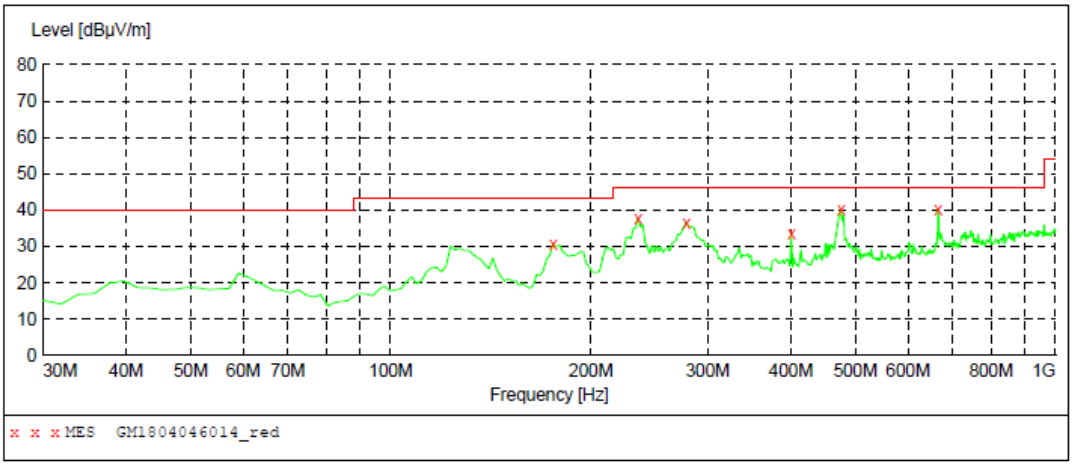


MEASUREMENT RESULT: "GM1804046013_red"

4/4/2018 10:48AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
37.760000	34.30	-10.8	40.0	5.7	QP	100.0	29.00	VERTICAL
90.140000	32.40	-12.7	43.5	11.1	QP	100.0	0.00	VERTICAL
142.520000	34.70	-13.9	43.5	8.8	QP	100.0	255.00	VERTICAL
196.840000	35.30	-9.8	43.5	8.2	QP	100.0	149.00	VERTICAL
237.580000	36.30	-8.9	46.0	9.7	QP	100.0	322.00	VERTICAL
666.320000	42.40	1.9	46.0	3.6	QP	100.0	189.00	VERTICAL

Polarization:	Horizontal



MEASUREMENT RESULT: "GM1804046014_red"

4/4/2018 10:52AM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
175.500000	30.50	-12.7	43.5	13.0	QP	100.0	187.00	HORIZONTAL
235.640000	37.70	-9.0	46.0	8.3	QP	100.0	239.00	HORIZONTAL
278.320000	36.50	-7.8	46.0	9.5	QP	100.0	312.00	HORIZONTAL
400.540000	33.40	-4.2	46.0	12.6	QP	100.0	35.00	HORIZONTAL
476.200000	40.00	-2.7	46.0	6.0	QP	300.0	148.00	HORIZONTAL
666.320000	40.20	1.9	46.0	5.8	QP	300.0	172.00	HORIZONTAL

➢ **1 GHz ~ 25 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
1711.05	35.60	25.22	5.79	36.95	29.66	74.00	-44.34	Vertical	Peak
3333.55	38.21	28.20	7.88	38.43	35.86	74.00	-38.14	Vertical	Peak
5047.83	33.23	31.69	9.71	36.35	38.28	74.00	-35.72	Vertical	Peak
9042.04	33.20	38.03	13.35	34.71	49.87	74.00	-24.13	Vertical	Peak
1663.80	34.74	25.09	5.69	36.85	28.67	74.00	-45.33	Horizontal	Peak
3333.55	36.86	28.20	7.88	38.43	34.51	74.00	-39.49	Horizontal	Peak
8104.56	33.41	36.99	12.55	34.54	48.41	74.00	-25.59	Horizontal	Peak
9465.98	32.05	39.02	13.71	35.25	49.53	74.00	-24.47	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
1702.36	34.21	25.20	5.77	36.93	28.25	74.00	-45.75	Vertical	Peak
3143.98	34.41	28.80	7.65	38.21	32.65	74.00	-41.35	Vertical	Peak
6611.33	29.81	34.20	11.37	35.34	40.04	74.00	-33.96	Vertical	Peak
9935.05	30.00	39.10	13.57	33.97	48.70	74.00	-25.30	Vertical	Peak
1724.17	35.83	25.25	5.81	36.98	29.91	74.00	-44.09	Horizontal	Peak
3653.46	36.44	29.30	8.33	38.26	35.81	74.00	-38.19	Horizontal	Peak
5762.24	32.49	31.91	10.53	35.42	39.51	74.00	-34.49	Horizontal	Peak
8770.01	32.17	37.76	13.07	34.32	48.68	74.00	-25.32	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
1759.64	35.09	25.32	5.88	37.06	29.23	74.00	-44.77	Vertical	Peak
3913.39	34.78	29.70	8.66	38.16	34.98	74.00	-39.02	Vertical	Peak
6816.39	31.08	34.12	11.62	34.97	41.85	74.00	-32.15	Vertical	Peak
9960.38	30.65	39.10	13.56	33.65	49.66	74.00	-24.34	Vertical	Peak
1680.83	35.39	25.14	5.73	36.89	29.37	74.00	-44.63	Horizontal	Peak
3634.91	36.66	29.30	8.31	38.26	36.01	74.00	-37.99	Horizontal	Peak
6730.19	31.13	34.14	11.52	35.12	41.67	74.00	-32.33	Horizontal	Peak
9417.91	32.04	39.01	13.69	35.29	49.45	74.00	-24.55	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(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

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
1823.48	35.55	25.38	6.00	37.16	29.77	74.00	-44.23	Vertical	Peak
3192.37	39.31	28.80	7.71	38.20	37.62	74.00	-36.38	Vertical	Peak
6511.12	32.38	34.02	11.20	35.34	42.26	74.00	-31.74	Vertical	Peak
9884.60	31.76	39.10	13.60	34.62	49.84	74.00	-24.16	Vertical	Peak
1818.84	34.61	25.38	5.99	37.16	28.82	74.00	-45.18	Horizontal	Peak
3333.55	36.24	28.20	7.88	38.43	33.89	74.00	-40.11	Horizontal	Peak
3903.44	34.56	29.70	8.64	38.17	34.73	74.00	-39.27	Horizontal	Peak
8770.01	31.51	37.76	13.07	34.32	48.02	74.00	-25.98	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
1782.18	35.92	25.37	5.93	37.10	30.12	74.00	-43.88	Vertical	Peak
3192.37	44.13	28.80	7.71	38.20	42.44	74.00	-31.56	Vertical	Peak
5099.49	33.31	31.90	9.75	36.30	38.66	74.00	-35.34	Vertical	Peak
8104.56	33.45	36.99	12.55	34.54	48.45	74.00	-25.55	Vertical	Peak
2135.22	33.55	26.99	6.38	37.33	29.59	74.00	-44.41	Horizontal	Peak
3672.11	34.73	29.30	8.35	38.26	34.12	74.00	-39.88	Horizontal	Peak
6251.26	31.20	33.00	11.00	35.30	39.90	74.00	-34.10	Horizontal	Peak
9111.35	32.15	38.25	13.42	35.21	48.61	74.00	-25.39	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
2129.79	36.94	26.94	6.38	37.33	32.93	74.00	-41.07	Vertical	Peak
3200.50	38.85	28.80	7.72	38.20	37.17	74.00	-36.83	Vertical	Peak
6017.06	31.55	32.50	10.70	35.44	39.31	74.00	-34.69	Vertical	Peak
8681.17	31.69	37.79	12.98	34.42	48.04	74.00	-25.96	Vertical	Peak
1715.41	35.29	25.23	5.80	36.96	29.36	74.00	-44.64	Horizontal	Peak
2577.80	36.56	27.67	6.89	37.85	33.27	74.00	-40.73	Horizontal	Peak
3854.08	34.76	29.65	8.58	38.20	34.79	74.00	-39.21	Horizontal	Peak
7663.17	30.71	36.14	12.89	35.01	44.73	74.00	-29.27	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(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

802.11n(HT20)					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
1241.56	34.97	26.26	4.73	36.55	29.41	74.00	-44.59	Vertical	Peak
3616.45	35.56	29.30	8.29	38.27	34.88	74.00	-39.12	Vertical	Peak
5836.04	30.83	32.17	10.60	35.34	38.26	74.00	-35.74	Vertical	Peak
8002.06	30.88	37.10	12.30	34.53	45.75	74.00	-28.25	Vertical	Peak
1565.20	33.82	25.21	5.47	36.67	27.83	74.00	-46.17	Horizontal	Peak
3983.75	33.44	29.70	8.76	38.12	33.78	74.00	-40.22	Horizontal	Peak
6094.14	30.57	32.50	10.83	35.37	38.53	74.00	-35.47	Horizontal	Peak
8271.29	30.52	36.49	12.80	34.45	45.36	74.00	-28.64	Horizontal	Peak

802.11n(HT20)					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
1759.64	35.35	25.32	5.88	37.06	29.49	74.00	-44.51	Vertical	Peak
3653.46	36.70	29.30	8.33	38.26	36.07	74.00	-37.93	Vertical	Peak
5151.68	33.63	31.69	9.79	36.25	38.86	74.00	-35.14	Vertical	Peak
7860.74	30.96	36.47	12.97	34.91	45.49	74.00	-28.51	Vertical	Peak
1851.54	36.79	25.35	6.04	37.18	31.00	74.00	-43.00	Horizontal	Peak
2577.80	35.99	27.67	6.89	37.85	32.70	74.00	-41.30	Horizontal	Peak
4785.08	32.57	31.54	9.53	36.98	36.66	74.00	-37.34	Horizontal	Peak
8002.06	30.20	37.10	12.30	34.53	45.07	74.00	-28.93	Horizontal	Peak

802.11n(HT20)					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
1795.84	34.55	25.39	5.95	37.13	28.76	74.00	-45.24	Vertical	Peak
3333.55	36.42	28.20	7.88	38.43	34.07	74.00	-39.93	Vertical	Peak
5086.52	32.85	31.85	9.74	36.31	38.13	74.00	-35.87	Vertical	Peak
7508.69	32.07	36.11	12.42	34.91	45.69	74.00	-28.31	Vertical	Peak
1737.38	35.44	25.28	5.84	37.01	29.55	74.00	-44.45	Horizontal	Peak
3805.33	35.38	29.61	8.51	38.23	35.27	74.00	-38.73	Horizontal	Peak
5125.52	32.74	31.80	9.77	36.27	38.04	74.00	-35.96	Horizontal	Peak
8637.08	32.37	37.52	12.93	34.48	48.34	74.00	-25.66	Horizontal	Peak

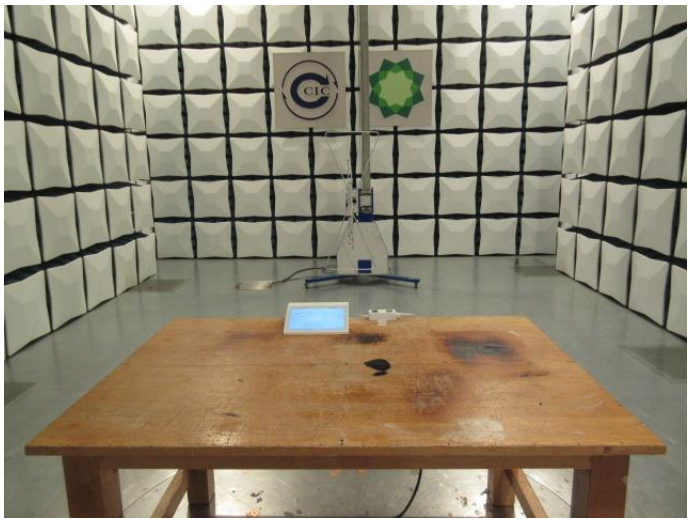
Remark:

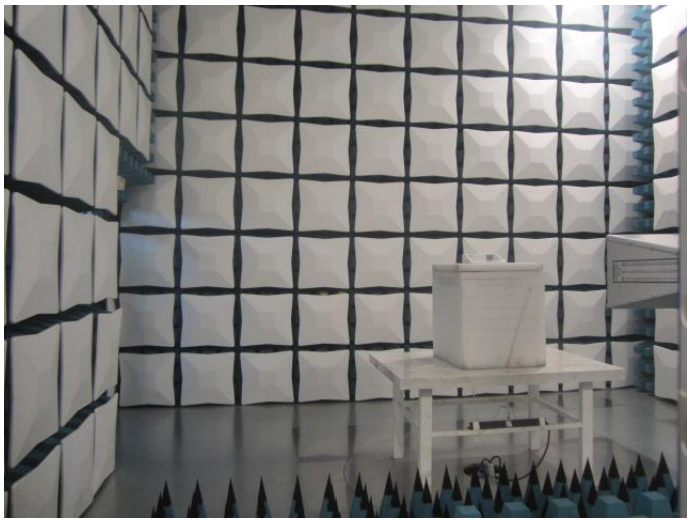
1. Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
2. The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
3. The emission levels of other frequencies(test frequency band is 1GHz to 25GHz) are very lower than the limit and not show in test report.

6. TEST SETUP PHOTOS

Conducted Emissions (AC Mains)

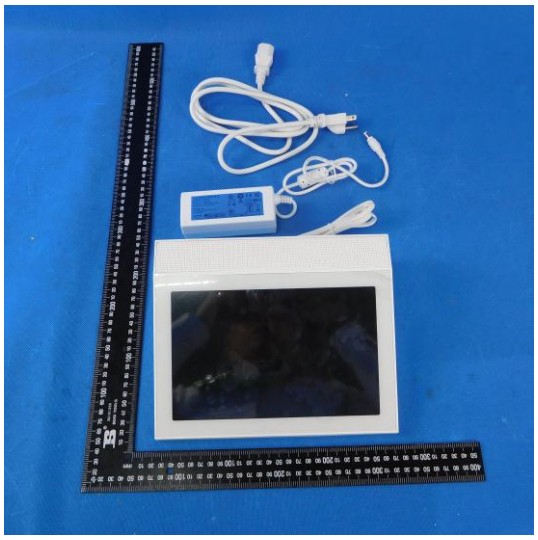
Radiated Emissions

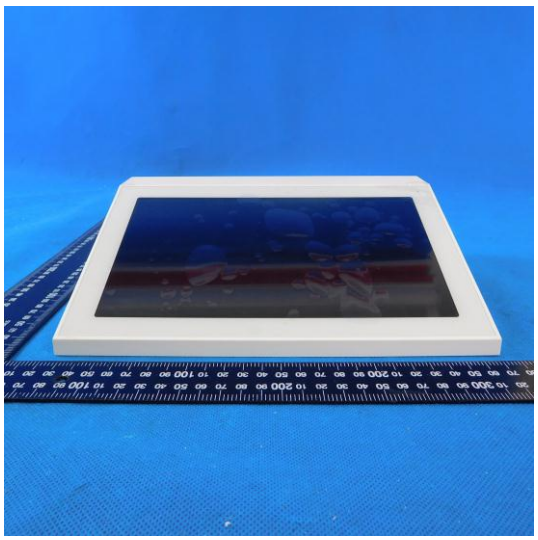


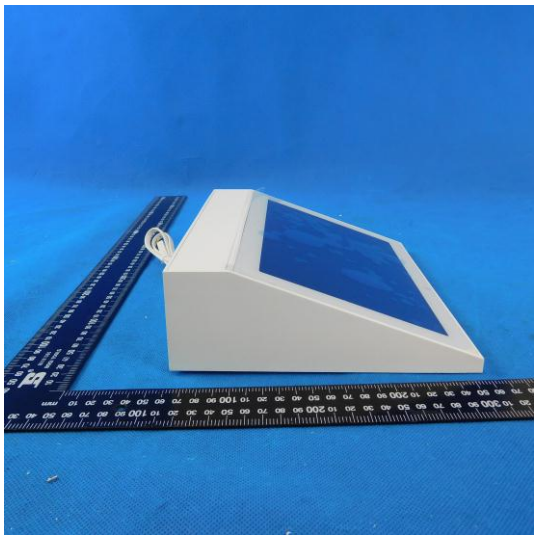


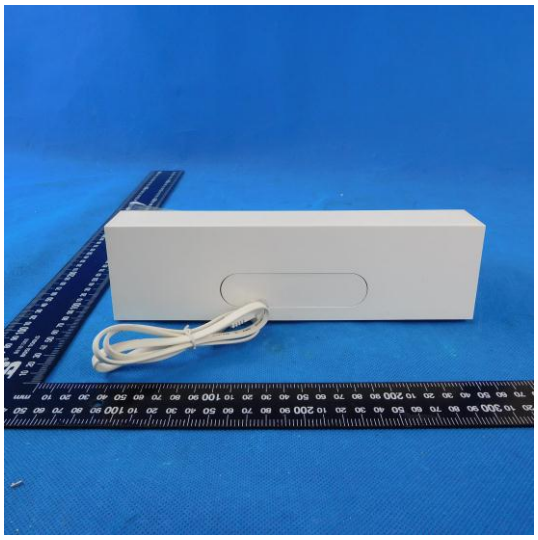
7. EXTERANAL AND INTERNAL PHOTOS

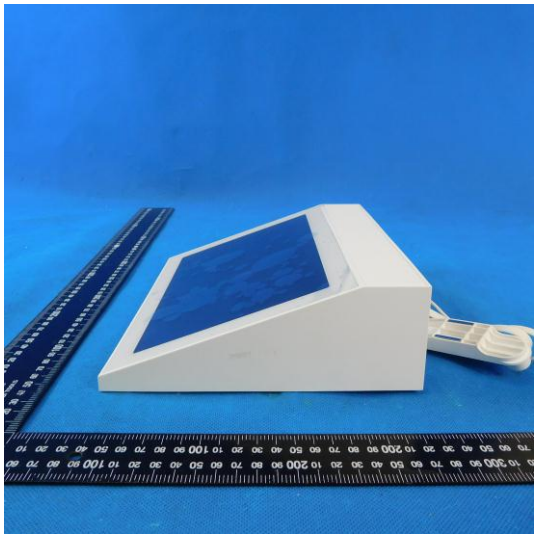
External Photos

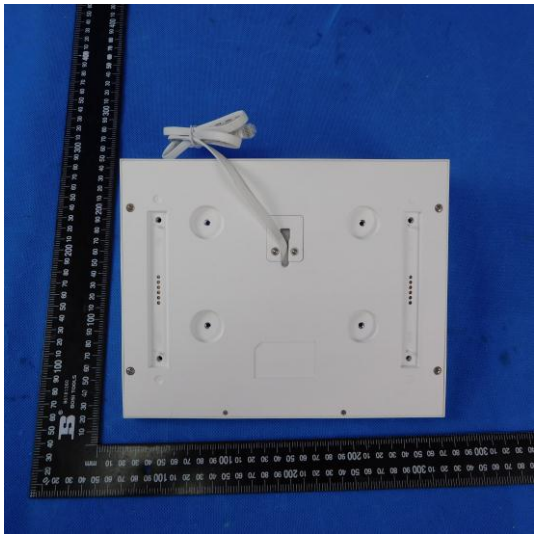




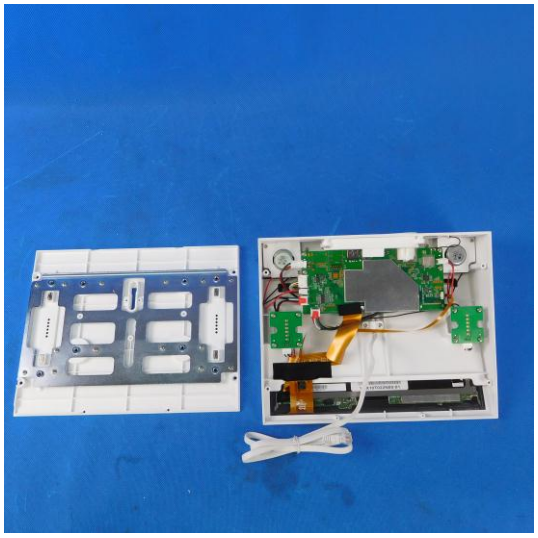


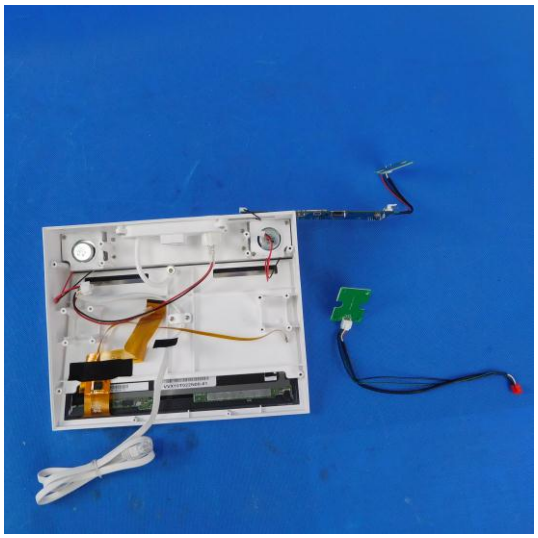


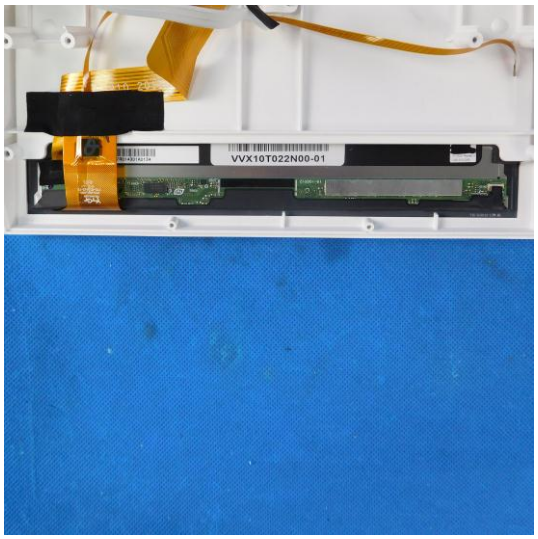


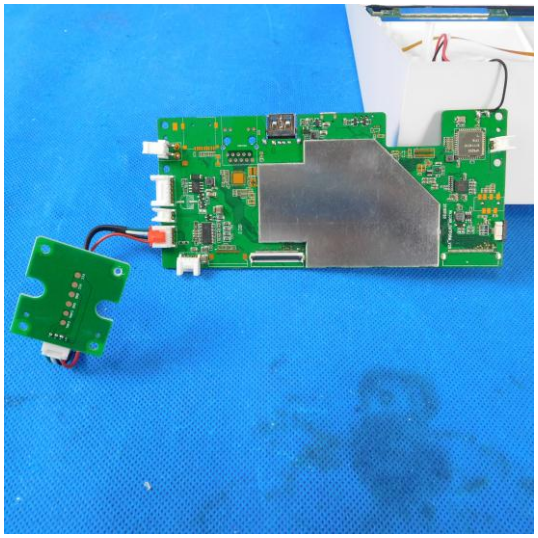


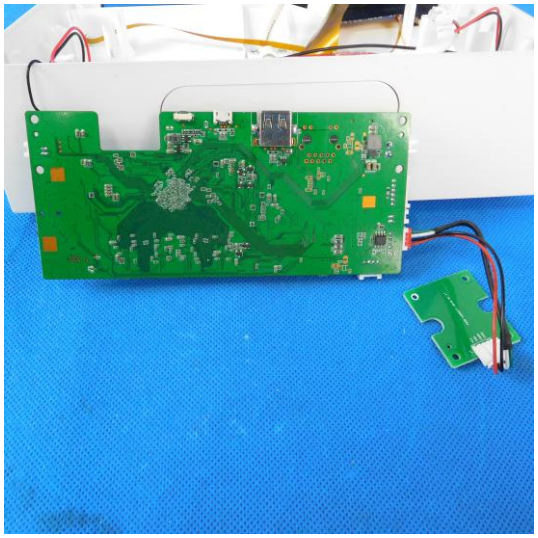
Internal Photos

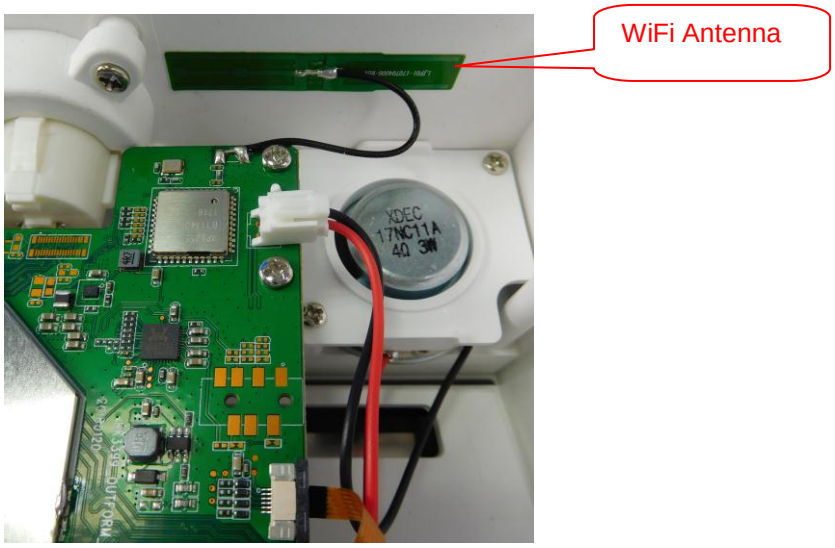


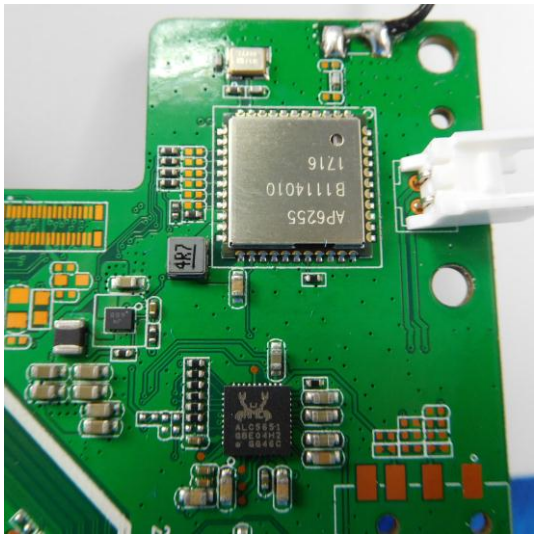


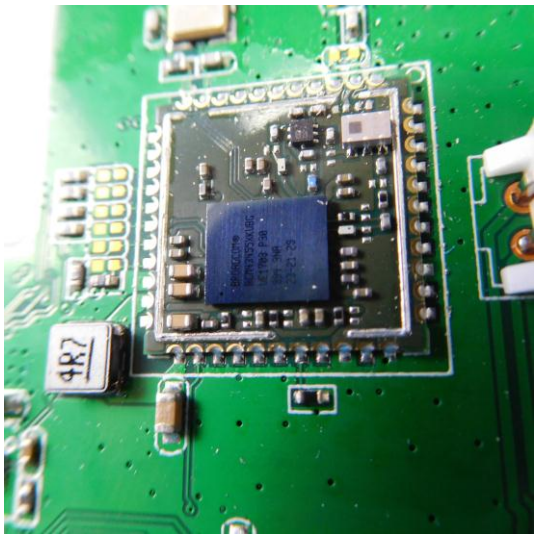







WiFi Antenna





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