



TEST REPORT

Report Reference No	TRE1708003501	R/C.....: 84869
FCC ID	2ABQ6-A745	
Applicant's name	Inspira Technologies LLC	
Address	1901 4th Ave, Suite 210, San Diego, CA 92101, USA	
Manufacturer.....	Shenzhen Iproda Technology Co.,Ltd	
Address.....	4F-5F, C building, GongMing Tangwei Village WanFeng Industrial Zone, GuangMing New District, Shenzhen, China	
Test item description	Astro Tab	
Trade Mark.....	Astro Tab	
Model/Type reference	A745	
Listed Model(s).....	-	
Standard.....	FCC CFR Title 47 Part 15 Subpart C Section 15.247	
Date of receipt of test sample.....	Aug. 03, 2017	
Date of testing.....	Aug. 04, 2017 - Aug. 15, 2017	
Date of issue.....	Aug. 16, 2017	
Result.....	PASS	

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

Address

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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

[KDB558074 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
00	Aug. 16, 2017	Original

2. Test Description

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
Line Conducted Emissions (AC Main)	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
Power Spectral Density	15.247 (e)	Pass
6dB Bandwidth	15.247 (a)(2)	Pass
Restricted band	15.247(d)/15.205	Pass
Spurious Emissions	15.247(d)/15.209	Pass

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

3. Summary

3.1. Client Information

Applicant:	Inspira Technologies LLC
Address:	1901 4th Ave, Suite 210, San Diego, CA 92101, USA
Manufacturer:	Shenzhen Iproda Technology Co.,Ltd
Address:	4F-5F, C building,GongMing Tangwei Village WanFeng Industrial Zone, GuangMing New District,Shenzhen,China

3.2. Product Description

Name of EUT:	Astro Tab			
Trade Mark:	Astro Tab			
Model No.:	A745			
Listed Model(s):	-			
Power supply:	DC 3.7V from internal battery & DC 5.0V for USB port			
Adapter information:	Model:JK050150-S02USU Input:100-240Va.c.,50/60Hz,0.3A Max Output:5Vd.c.,1.5A			
Hardware version:	ELINK A70P_V2_2017XXXX			
Software version:	Astro.A745.2017XXXX.V01			
WIFI				
Supported type:	<input checked="" type="checkbox"/> 802.11b	<input checked="" type="checkbox"/> 802.11g	<input checked="" type="checkbox"/> 802.11n(HT20)	<input checked="" type="checkbox"/> 802.11n(HT40)
Modulation:	<u>DSSS</u> for 802.11b <u>OFDM</u> for 802.11g/802.11n(HT20)/802.11n(HT40)			
Operation frequency:	<u>2412MHz~2462MHz</u> for 802.11b/802.11g/802.11n(HT20) <u>2422MHz~2452MHz</u> for 802.11n(HT40)			
Channel number:	<u>11</u> for 802.11b/802.11g/802.11n(HT20) <u>7</u> for 802.11n(HT40)			
Channel separation:	5MHz			
Antenna type:	Integral antenna			
Antenna gain:	1.00 dBi			

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

3.4. EUT configuration

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

- - supplied by the manufacturer
- - 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

Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

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. Registration 762235.

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. Equipments Used during the Test

Line Conducted Emission (AC Main)					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	R&S	ESCI	101247	2016/11/13
2	Artificial Mains	Shwarzbeck	NNLK 8121	573	2016/11/13
3	Pulse Limiter	R&S	ESH3-Z2	101488	2016/11/13
4	Test Software	R&S	ES-K1	N/A	N/A
5	Test cable	ENVIROFLEX	3651	1101902	2016/11/13

Maximum Peak Output Power / Power Spectral Density / 6dB Bandwidth / Band Edge Compliance of RF Emission / Spurious RF Conducted Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Spectrum Analyzer	Rohde&Schwarz	FSP	1164.4391.40	2016/11/13
2	Power Meter	Anritsu	ML2480B	100798	2016/11/13
3	Power Sensor	Anritsu	MA2411B	100258	2016/11/13
4	Test cable	FARPU	MCX-J	N/A	2016/11/13
5	Temporary antenna connector	D-LENP	NJ-SMAK	N/A	2016/11/13

NOTE: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Radiated Emission

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	Rohde&Schwarz	ESI 26	100009	2016/11/13
2	RF Test Panel	Rohde&Schwarz	TS / RSP	335015/0017	N/A
3	EMI Test Software	Rohde&Schwarz	ESK1	N/A	N/A
4	Loop Antenna	Rohde&Schwarz	HZ-9	838622\013	2016/11/13
5	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
6	Horn Antenna	ShwarzBeck	9120D	1011	2016/11/13
7	Broadband Horn Antenna	Shwarzbeck	BBHA9170	BBHA9170472	2016/11/13
8	Preamplifier	Shwarzbeck	BBV9742	9742-196	2016/11/13
9	Broadband Preamplifier	Shwarzbeck	BBV 9721	9721-102	2016/11/13
10	Broadband Preamplifier	Shwarzbeck	BBV 9718	9718-247	2016/11/13
11	Turn Table	MATURO	TT2.0	/	N/A
12	Antenna Mast	MATURO	TAM-4.0-P	/	N/A
13	EMI Test Software	Audix	E3	N/A	N/A
14	Test Software	R&S	ES-K1	N/A	N/A
15	Test cable	Siva Cables Italy	RG 58A/U	W14.02	2016/11/13

The Cal. Interval was one year.

4.4. 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

4.5. 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. Further more, 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 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-40 GHz	1.60 dB	(1)
Radiated spurious emissions 9KHz-40 GHz	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)
Occupied Bandwidth	-----	(1)

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

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 6dBi 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 6dBi.

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)

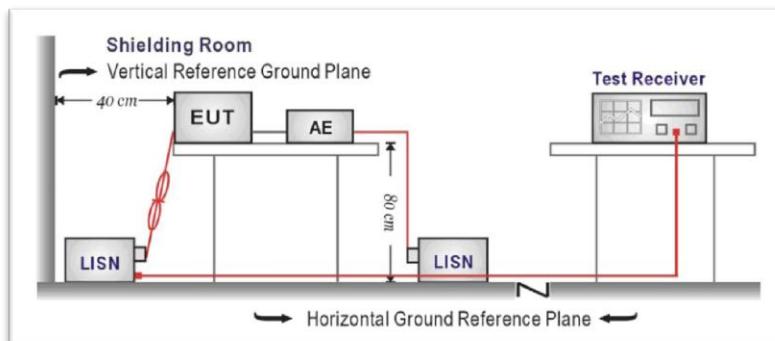
LIMIT

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

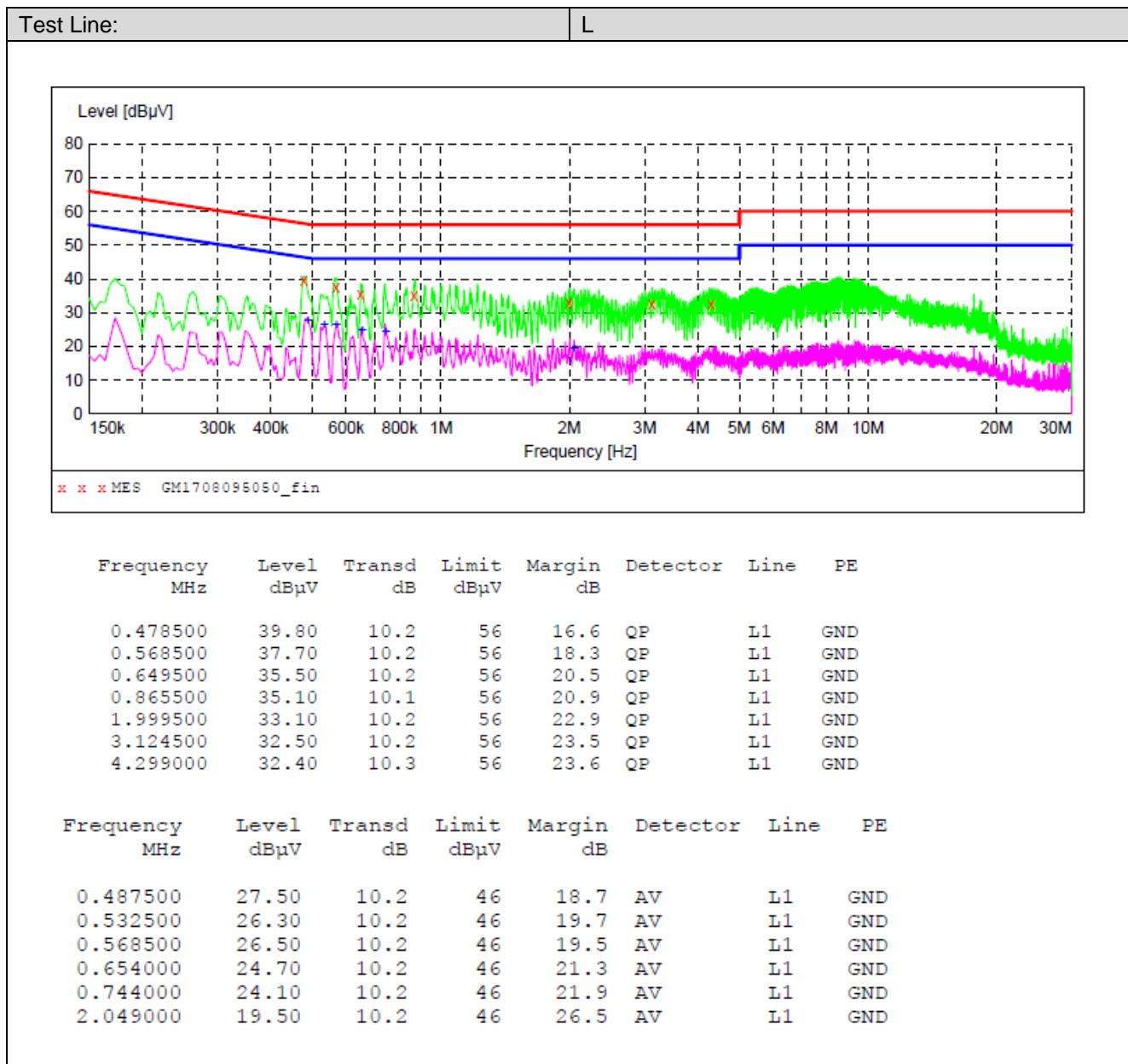
1. The EUT was setup according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT was placed on a plat form of nominal size, 1 m by 1.5 m, raised 10 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 10 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 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.

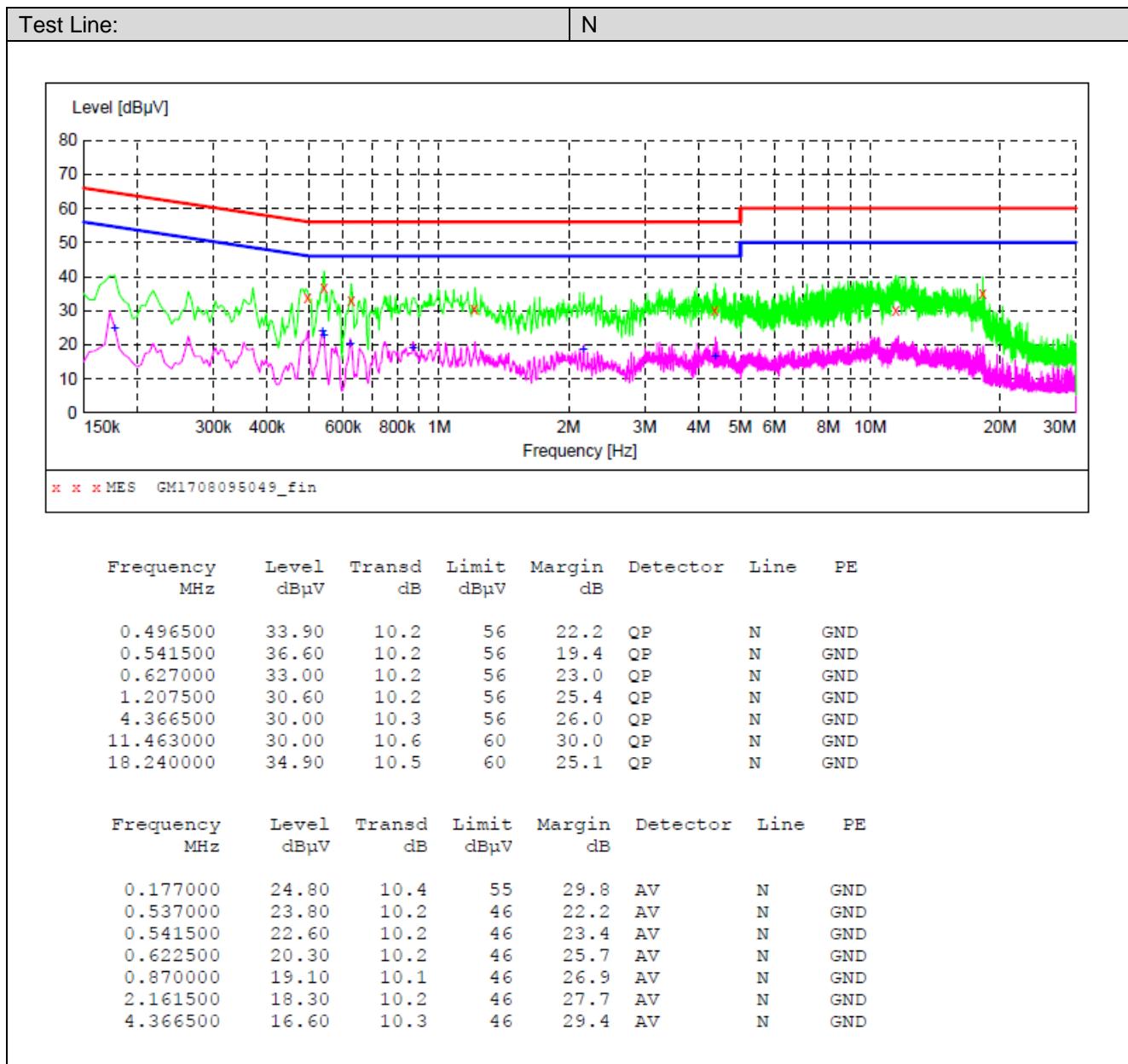
TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Passed Not Applicable



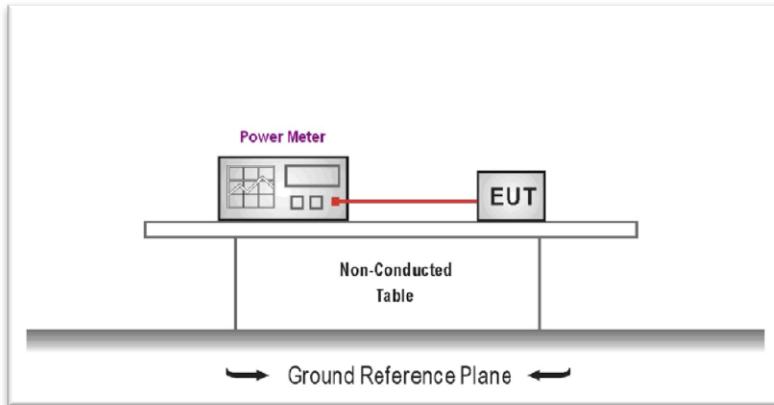


5.3. Conducted Peak Output Power

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 47CFR 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	PK Output power (dBm)	Limit (dBm)	Result
802.11b	01	8.01	30.00	Pass
	06	8.16		
	11	8.15		
802.11g	01	8.06	30.00	Pass
	06	7.99		
	11	8.04		
802.11n(HT20)	01	8.02	30.00	Pass
	06	8.11		
	11	8.16		
802.11n(HT40)	03	8.06	30.00	Pass
	06	8.02		
	09	8.07		

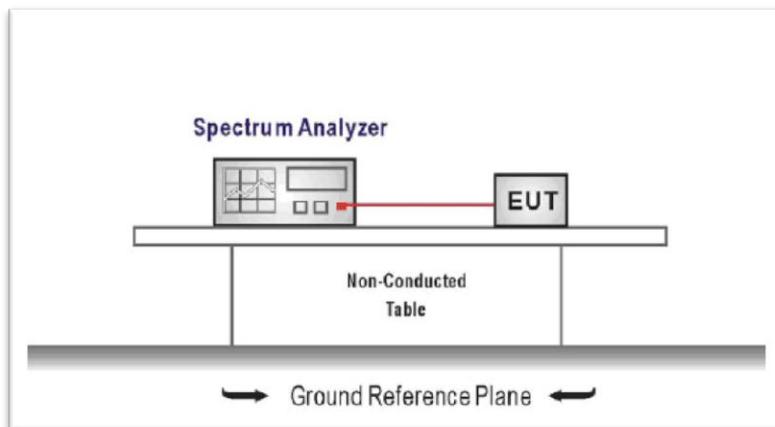
5.4. Power Spectral Density

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 waveform 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

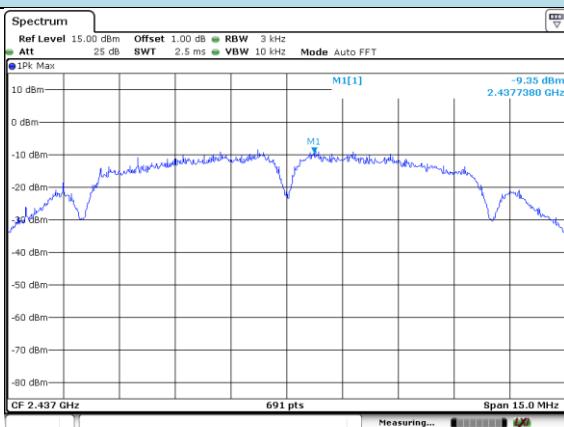
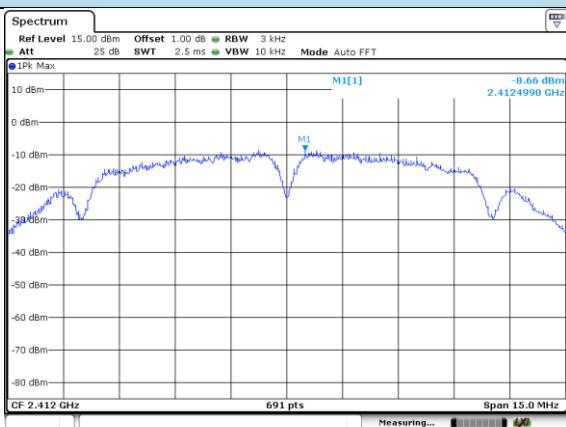
TEST RESULTS

Passed Not Applicable

Type	Channel	Power Spectral Density (dBm/3KHz)	Limit (dBm/3KHz)	Result
802.11b	01	-8.66	8.00	Pass
	06	-9.35		
	11	-9.34		
802.11g	01	-14.04	8.00	Pass
	06	-12.16		
	11	-14.29		
802.11n(HT20)	01	-14.79	8.00	Pass
	06	-11.78		
	11	-13.47		
802.11n(HT40)	03	-19.41	8.00	Pass
	06	-16.06		
	09	-18.98		

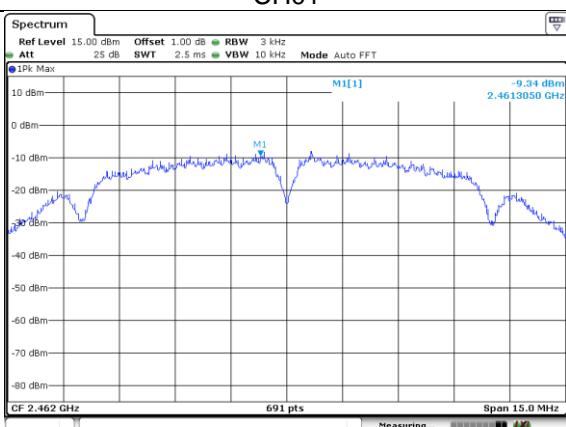
Test plot as follows:

802.11b



CH01

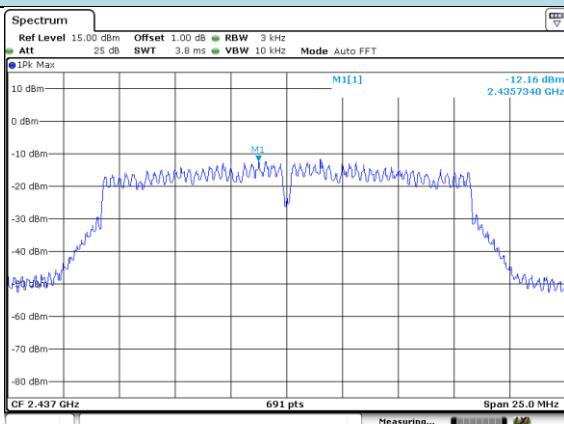
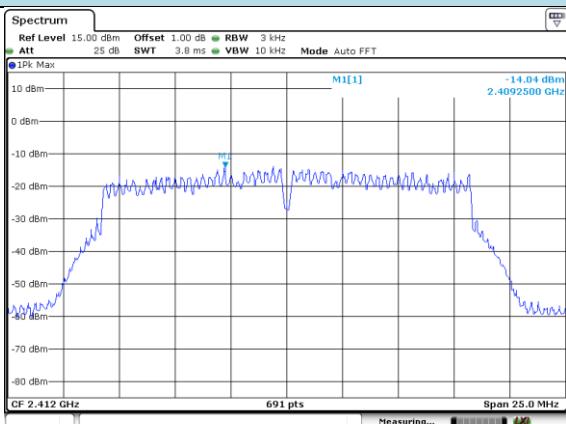
CH06



No Plot

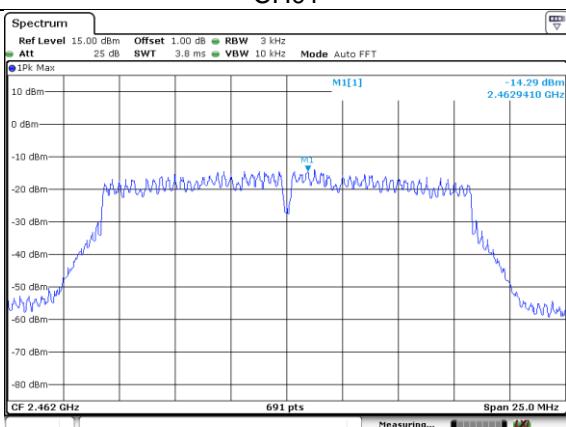
CH11

802.11g



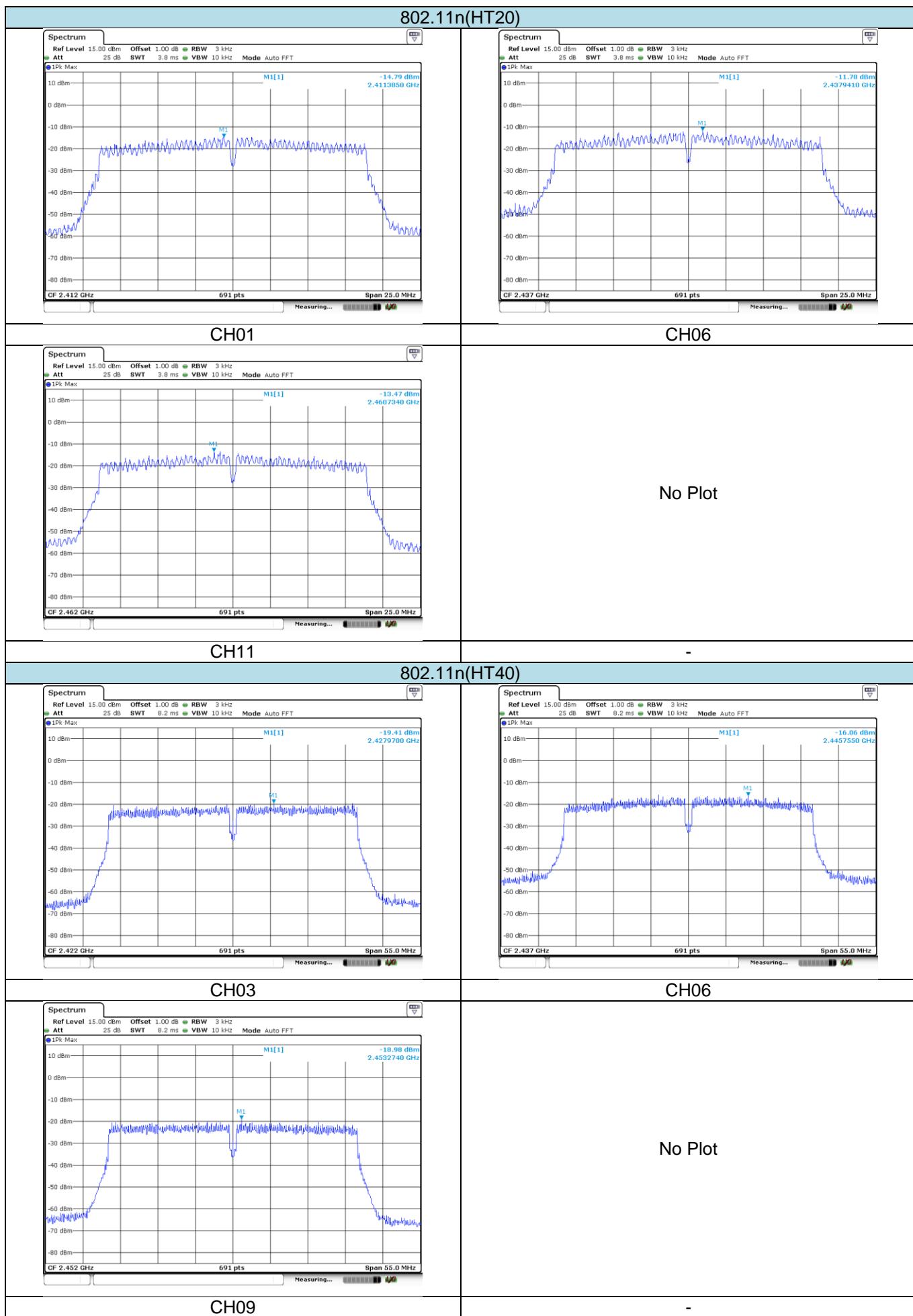
CH01

CH06



No Plot

CH11



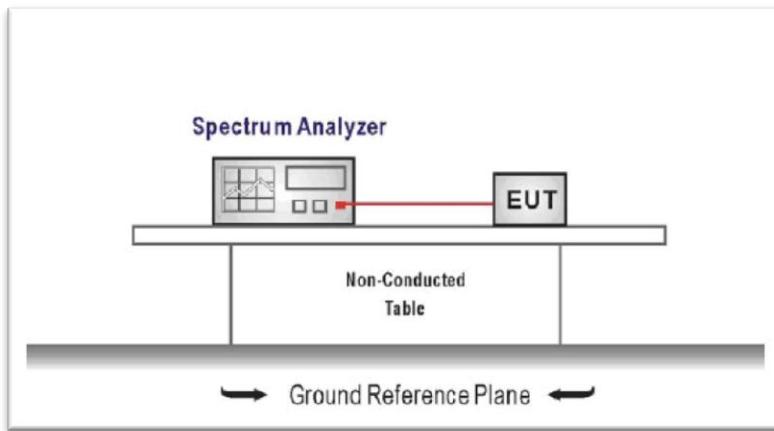
5.5. 6dB bandwidth

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
 - $RBW = 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
 - 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 waveform 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:

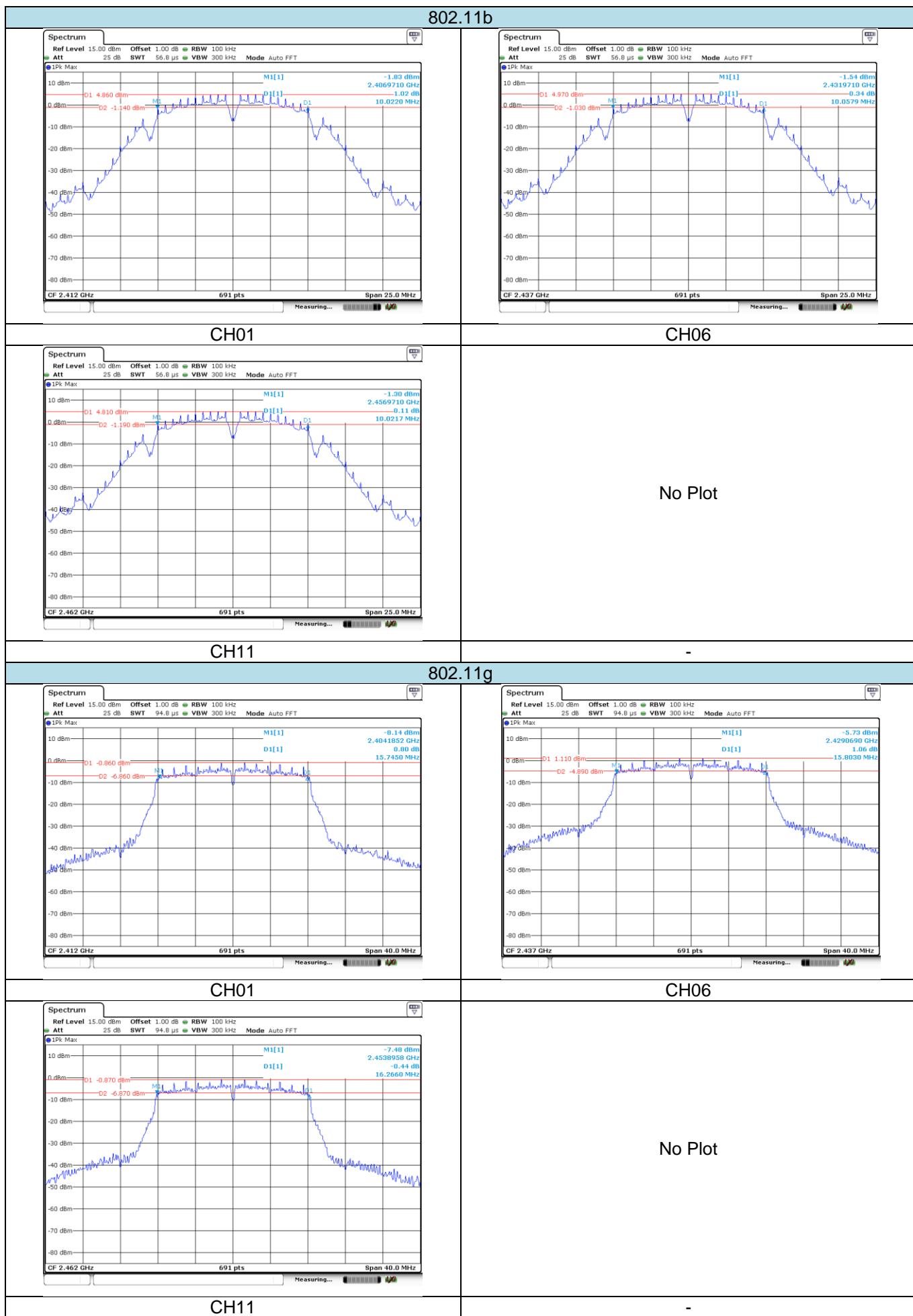
Please refer to the clause 3.3

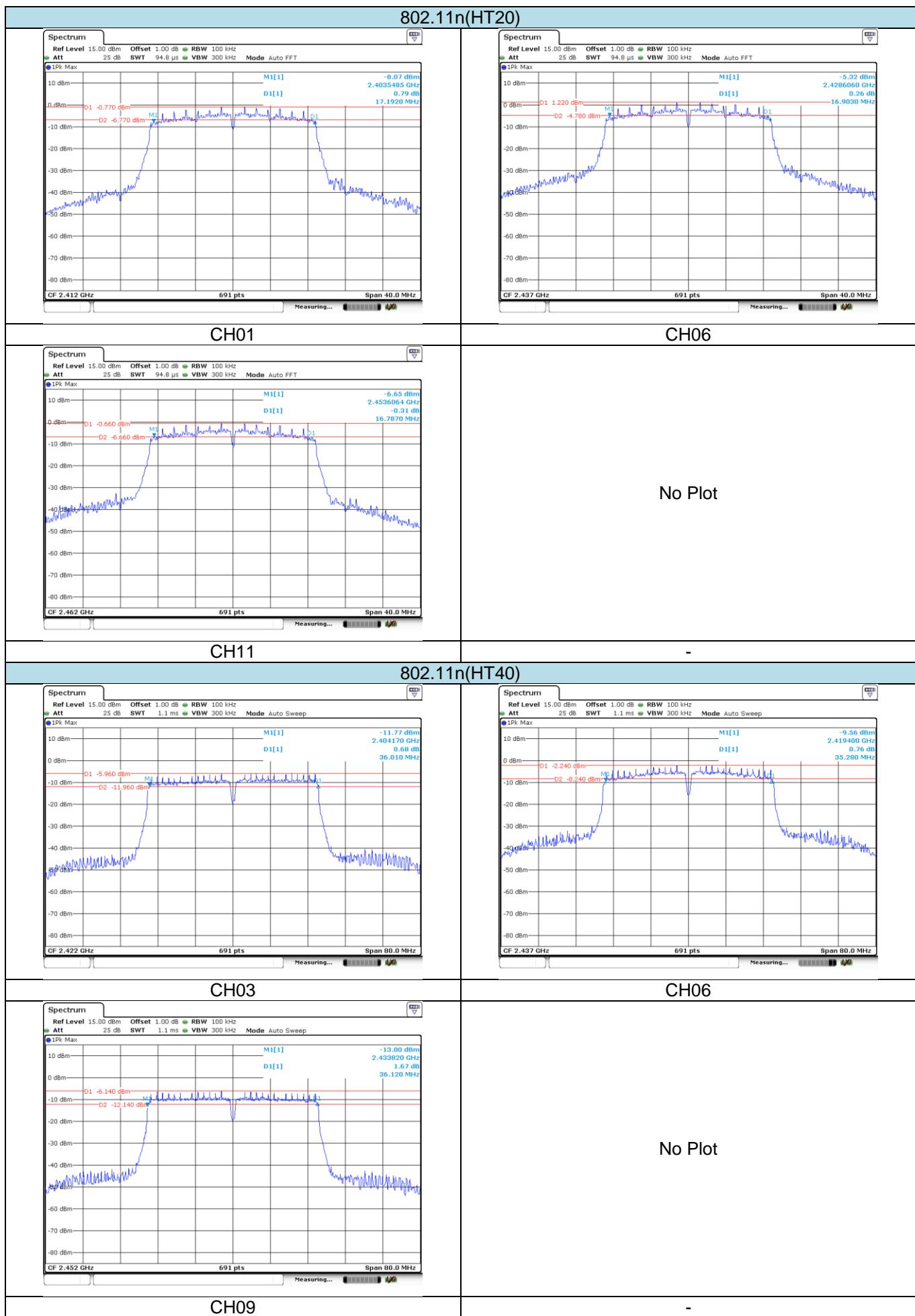
TEST RESULTS

Passed Not Applicable

Type	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	10.02	≥500	Pass
	06	10.06		
	11	10.02		
802.11g	01	15.75	≥500	Pass
	06	15.80		
	11	16.27		
802.11n(HT20)	01	17.19	≥500	Pass
	06	16.90		
	11	16.79		
802.11n(HT40)	03	36.01	≥500	Pass
	06	35.28		
	09	36.12		

Test plot as follows:





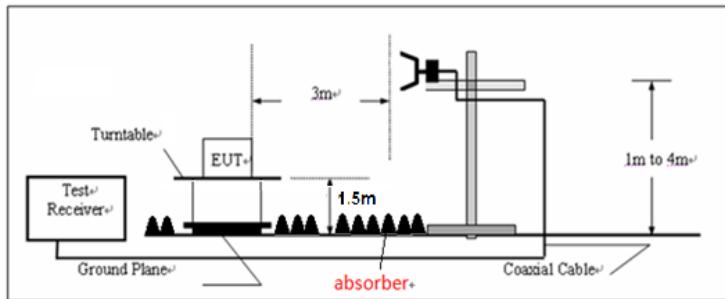
5.6. Restricted band

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 emission 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 + 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)	Margin Limit (dB)	Polarization	Test value
2310.00	12.69	28.05	6.62	0.00	47.36	74.00	-26.64	Horizontal	Peak
2390.01	12.60	27.65	6.75	0.00	47.00	74.00	-27.00	Horizontal	Peak
2310.00	14.60	28.05	6.62	0.00	49.27	74.00	-24.73	Vertical	Peak
2390.01	14.77	27.65	6.75	0.00	49.17	74.00	-24.83	Vertical	Peak
2310.00	10.91	28.05	6.62	0.00	45.58	54.00	-8.42	Horizontal	Average
2390.01	10.50	27.65	6.75	0.00	44.90	54.00	-9.10	Horizontal	Average
2310.00	10.99	28.05	6.62	0.00	45.66	54.00	-8.34	Vertical	Average
2390.01	10.84	27.65	6.75	0.00	45.24	54.00	-8.76	Vertical	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)	Margin Limit (dB)	Polarization	Test value
2483.49	13.01	27.26	6.83	0.00	47.10	74.00	-26.90	Horizontal	Peak
2500.00	12.37	27.20	6.84	0.00	46.41	74.00	-27.59	Horizontal	Peak
2483.49	12.20	27.26	6.83	0.00	46.29	74.00	-27.71	Vertical	Peak
2500.00	13.90	27.20	6.84	0.00	47.94	74.00	-26.06	Vertical	Peak
2483.49	10.46	27.26	6.83	0.00	44.55	54.00	-9.45	Horizontal	Average
2500.00	10.50	27.20	6.84	0.00	44.54	54.00	-9.46	Horizontal	Average
2483.49	10.61	27.26	6.83	0.00	44.70	54.00	-9.30	Vertical	Average
2500.00	10.42	27.20	6.84	0.00	44.46	54.00	-9.54	Vertical	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)	Margin Limit (dB)	Polarization	Test value
2310.00	16.98	28.05	6.62	0.00	51.65	74.00	-22.35	Horizontal	Peak
2390.01	17.48	27.65	6.75	0.00	51.88	74.00	-22.12	Horizontal	Peak
2310.00	17.06	28.05	6.62	0.00	51.73	74.00	-22.27	Vertical	Peak
2390.01	18.31	27.65	6.75	0.00	52.71	74.00	-21.29	Vertical	Peak
2310.00	11.26	28.05	6.62	0.00	45.93	54.00	-8.07	Horizontal	Average
2390.01	12.15	27.65	6.75	0.00	46.55	54.00	-7.45	Horizontal	Average
2310.00	11.20	28.05	6.62	0.00	45.87	54.00	-8.13	Vertical	Average
2390.01	12.89	27.65	6.75	0.00	47.29	54.00	-6.71	Vertical	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)	Margin Limit (dB)	Polarization	Test value
2483.49	11.76	27.26	6.83	0.00	45.85	74.00	-28.15	Horizontal	Peak
2500.00	13.36	27.20	6.84	0.00	47.40	74.00	-26.60	Horizontal	Peak
2483.49	15.17	27.26	6.83	0.00	49.26	74.00	-24.74	Vertical	Peak
2500.00	12.98	27.20	6.84	0.00	47.02	74.00	-26.98	Vertical	Peak
2483.49	10.51	27.26	6.83	0.00	44.60	54.00	-9.40	Horizontal	Average
2500.00	10.45	27.20	6.84	0.00	44.49	54.00	-9.51	Horizontal	Average
2483.49	11.86	27.26	6.83	0.00	45.95	54.00	-8.05	Vertical	Average
2500.00	11.52	27.20	6.84	0.00	45.56	54.00	-8.44	Vertical	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)	Margin Limit (dB)	Polarization	Test value
2310.00	17.86	28.05	6.62	0.00	52.53	74.00	-21.47	Horizontal	Peak
2390.01	18.24	27.65	6.75	0.00	52.64	74.00	-21.36	Horizontal	Peak
2310.00	18.49	28.05	6.62	0.00	53.16	74.00	-20.84	Vertical	Peak
2390.01	17.79	27.65	6.75	0.00	52.19	74.00	-21.81	Vertical	Peak
2310.00	11.16	28.05	6.62	0.00	45.83	54.00	-8.17	Horizontal	Average
2390.01	11.05	27.65	6.75	0.00	45.45	54.00	-8.55	Horizontal	Average
2310.00	11.17	28.05	6.62	0.00	45.84	54.00	-8.16	Vertical	Average
2390.01	12.80	27.65	6.75	0.00	47.20	54.00	-6.80	Vertical	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)	Margin Limit (dB)	Polarization	Test value
2483.49	18.75	27.26	6.83	0.00	52.84	74.00	-21.16	Horizontal	Peak
2500.00	17.32	27.20	6.84	0.00	51.36	74.00	-22.64	Horizontal	Peak
2483.49	18.57	27.26	6.83	0.00	52.66	74.00	-21.34	Vertical	Peak
2500.00	17.15	27.20	6.84	0.00	51.19	74.00	-22.81	Vertical	Peak
2483.49	12.87	27.26	6.83	0.00	46.96	54.00	-7.04	Horizontal	Average
2500.00	10.78	27.20	6.84	0.00	44.82	54.00	-9.18	Horizontal	Average
2483.49	12.31	27.26	6.83	0.00	46.40	54.00	-7.60	Vertical	Average
2500.00	10.69	27.20	6.84	0.00	44.73	54.00	-9.27	Vertical	Average

802.11n(HT40)						CH03			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2310.00	16.55	28.05	6.62	0.00	51.22	74.00	-22.78	Horizontal	Peak
2389.99	19.58	27.65	6.75	0.00	53.98	74.00	-20.02	Horizontal	Peak
2310.00	17.32	28.05	6.62	0.00	51.99	74.00	-22.01	Vertical	Peak
2389.99	19.14	27.65	6.75	0.00	53.54	74.00	-20.46	Vertical	Peak
2310.00	11.13	28.05	6.62	0.00	45.80	54.00	-8.20	Horizontal	Average
2389.99	11.91	27.65	6.75	0.00	46.31	54.00	-7.69	Horizontal	Average
2310.00	11.12	28.05	6.62	0.00	45.79	54.00	-8.21	Vertical	Average
2389.99	15.57	27.65	6.75	0.00	49.97	54.00	-4.03	Vertical	Average

802.11n(HT40)						CH09			
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
2483.50	19.40	27.26	6.83	0.00	53.49	74.00	-20.51	Horizontal	Peak
2500.00	18.67	27.20	6.84	0.00	52.71	74.00	-21.29	Horizontal	Peak
2483.50	20.05	27.26	6.83	0.00	54.14	74.00	-19.86	Vertical	Peak
2500.00	18.42	27.20	6.84	0.00	52.46	74.00	-21.54	Vertical	Peak
2483.50	15.48	27.26	6.83	0.00	49.57	54.00	-4.43	Horizontal	Average
2500.00	11.73	27.20	6.84	0.00	45.77	54.00	-8.23	Horizontal	Average
2483.50	12.85	27.26	6.83	0.00	46.94	54.00	-7.06	Vertical	Average
2500.00	11.20	27.20	6.84	0.00	45.24	54.00	-8.76	Vertical	Average

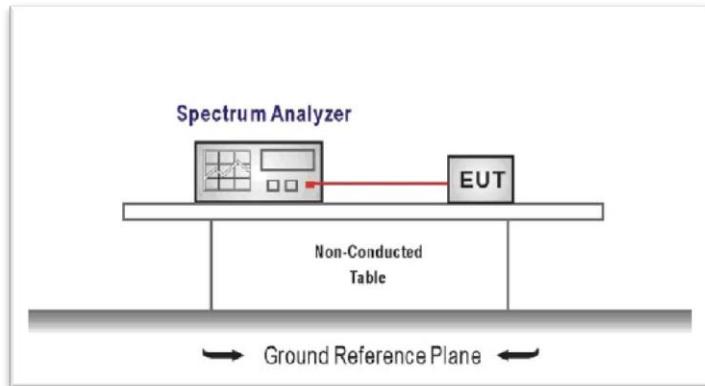
5.7. Band edge and Spurious Emission (conducted)

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.
 - $RBW = 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
 - 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
3. Note: the channel found to contain the maximum PSD level can be used to establish the reference level.
4. Emission level measurement
 - Set the center frequency and span to encompass frequency range to be measured
 - $RBW = 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
 - 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.
5. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
6. Ensure that the amplitude of all unwanted emissions 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 emissions relative to the limit.

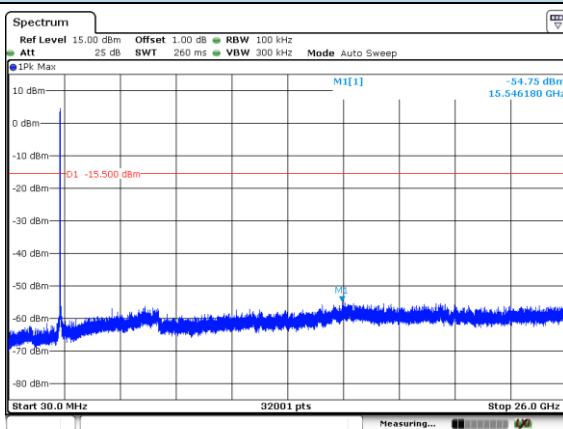
TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

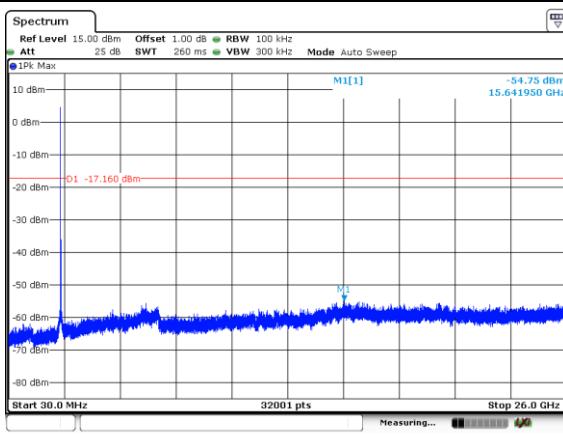
Passed Not Applicable

802.11b



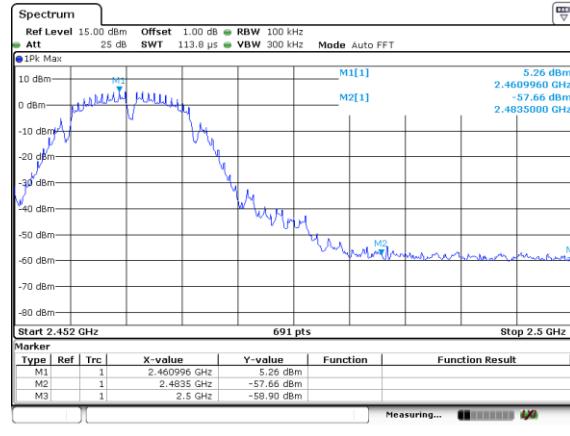
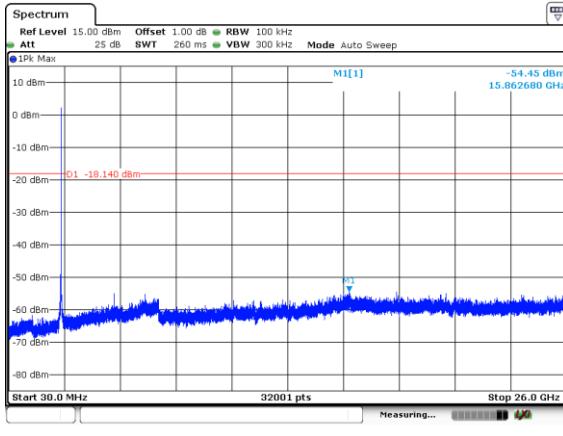
CH01-SE

CH01-Bandedge



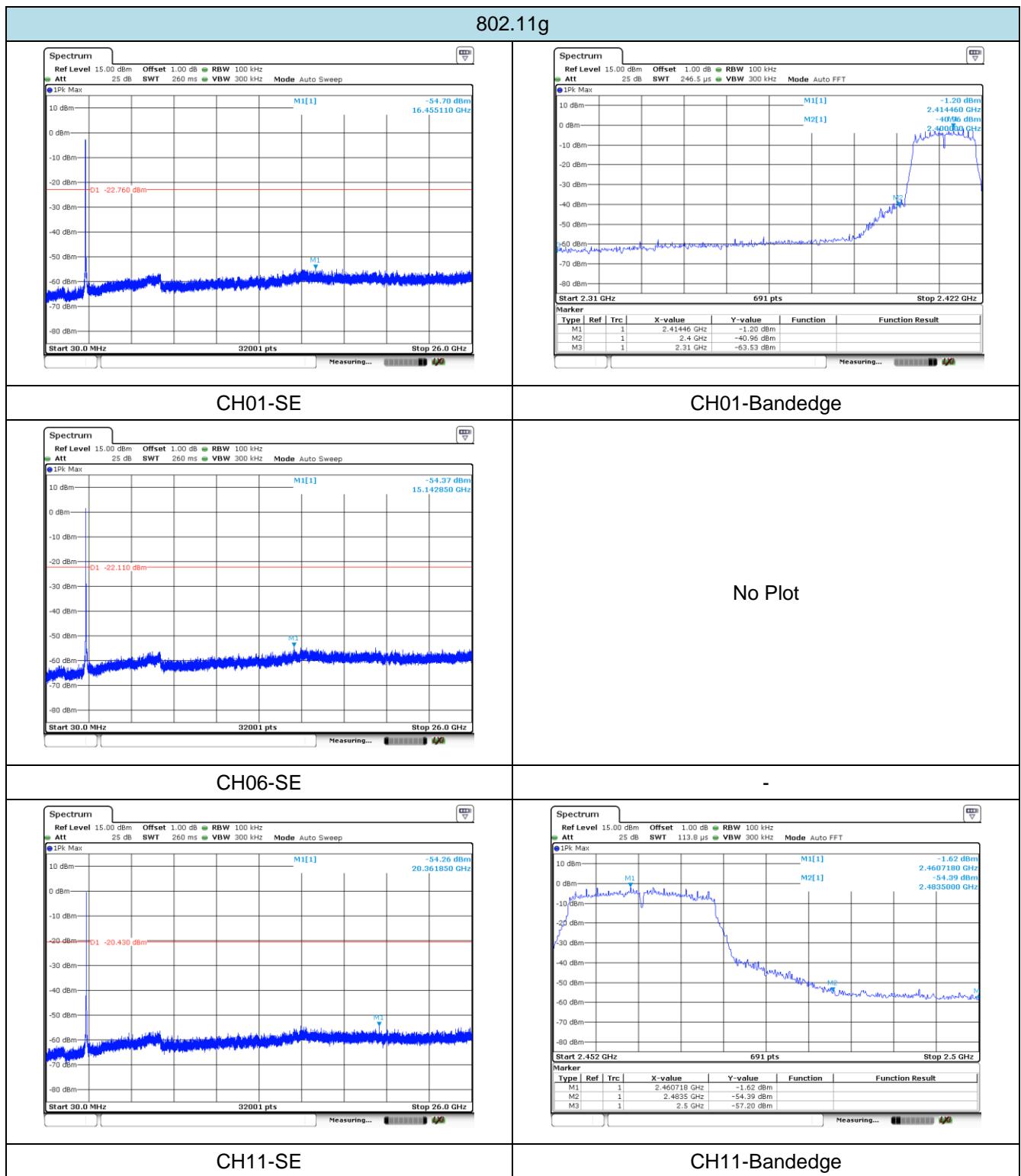
No Plot

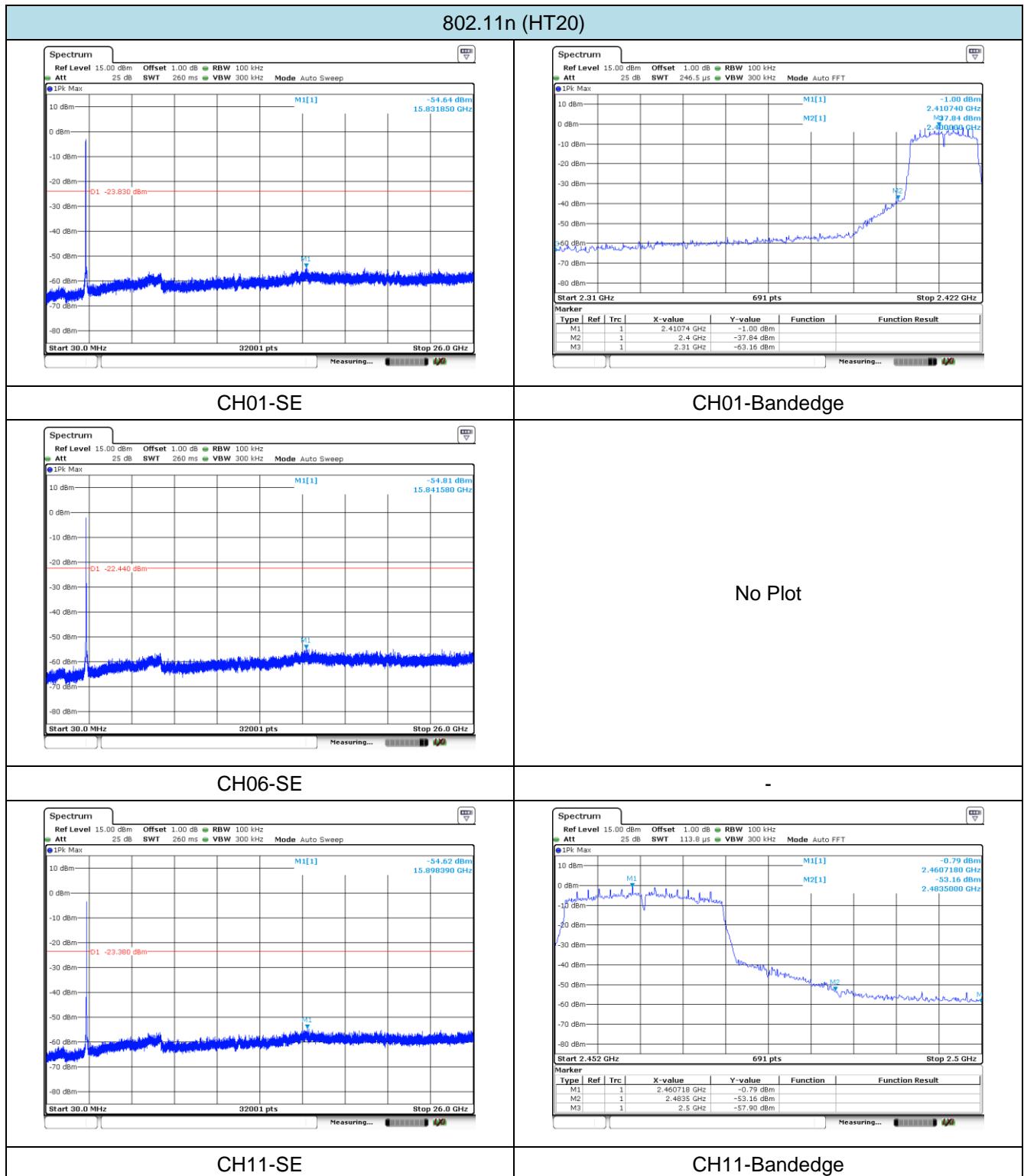
CH06-SE

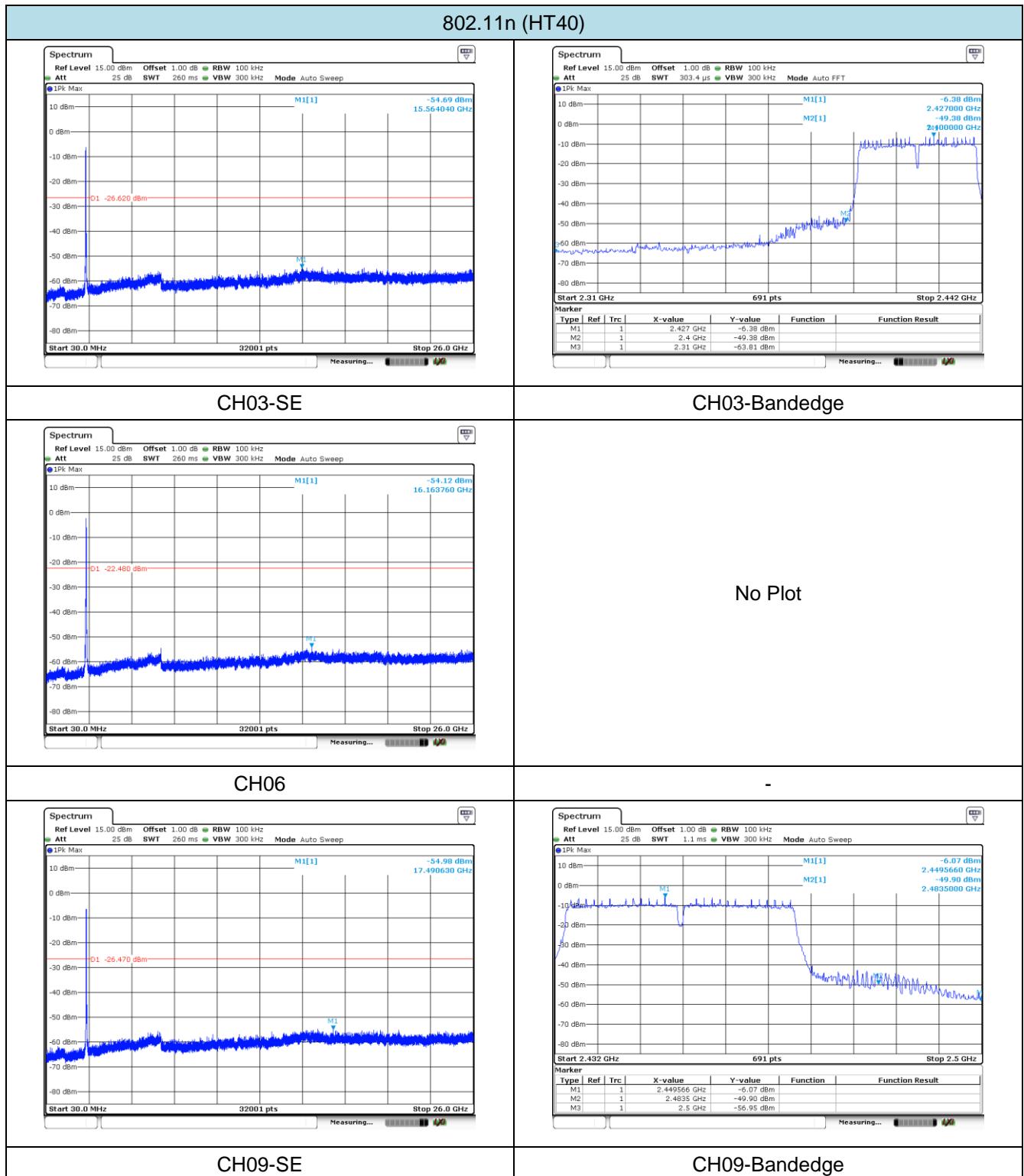


CH11-SE

CH11-Bandedge







5.8. Spurious Emissions (radiated)

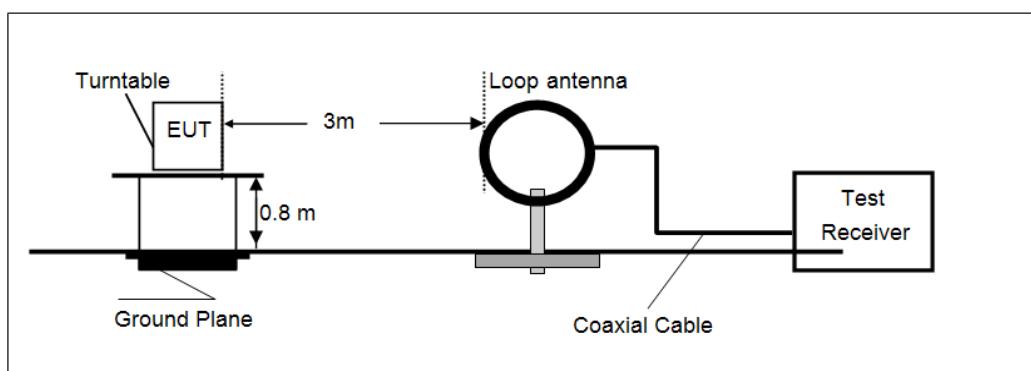
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

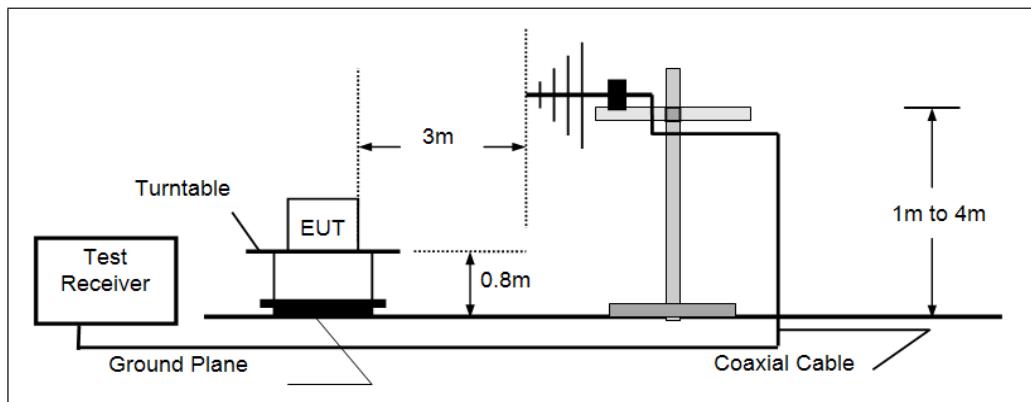
Frequency	Limit (dBuV/m @3m)	Value
30MHz-88MHz	40.00	Quasi-peak
88MHz-216MHz	43.50	Quasi-peak
216MHz-960MHz	46.00	Quasi-peak
960MHz-1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

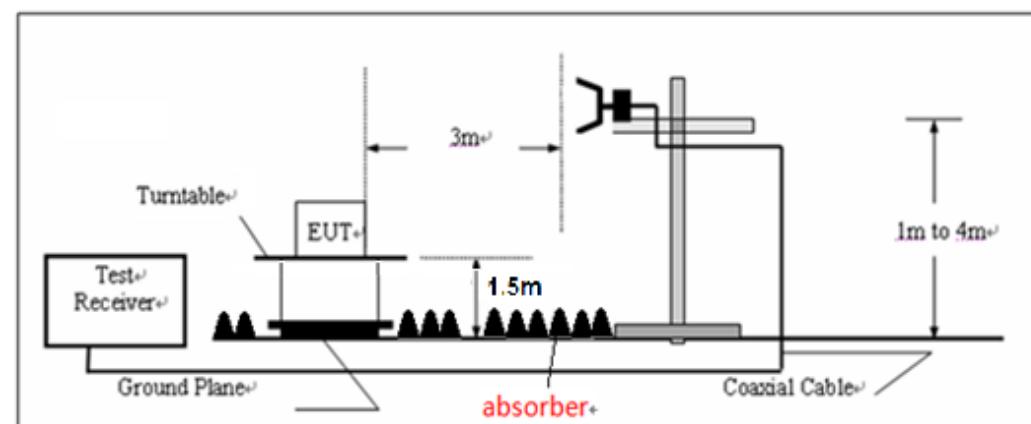
- 9KHz ~30MHz



- 30MHz ~ 1GHz



- Above 1GHz



TEST PROCEDURE

1. The EUT was 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 0.8/1.5 meter above ground plane. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
5. Use the following spectrum analyzer settings
 - (1) Span shall be wide enough to fully capture the emission being measured;
 - (2) Below 1GHz, RBW=120KHz, VBW=300KHz, 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) Above 1GHz, RBW=1MHz, VBW=3MHz Peak detector for Peak value
RBW=1MHz, VBW=3MHz RMS detector for Average value.

Remark: "floor-standing equipment" Where possible, the antenna(s) of the EUT shall be located at a height of 1.5 m above the floor, and the intentional radiator circuitry shall be located within the system at a height of at least 0.8 m above the floor.

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

Passed Not Applicable

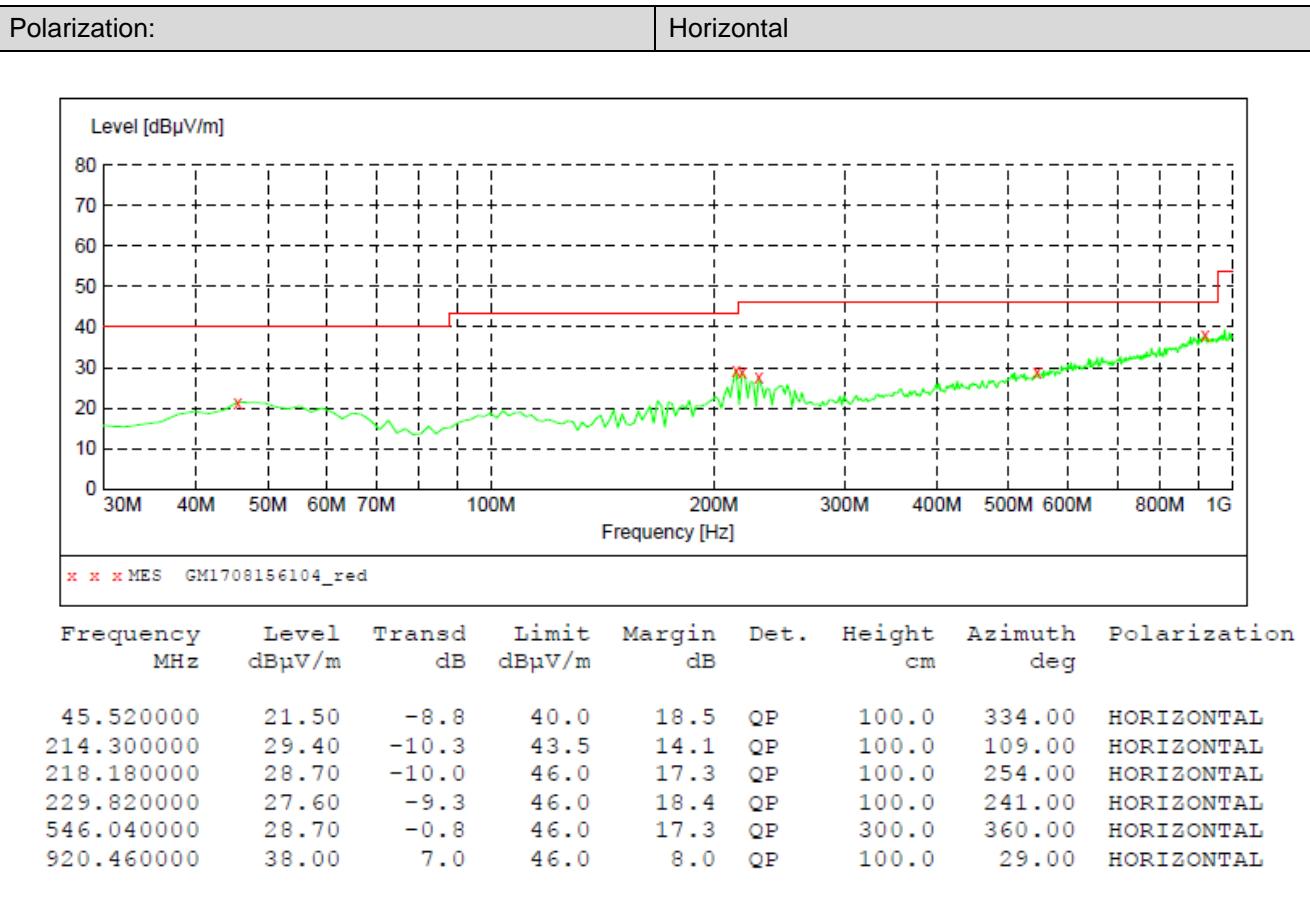
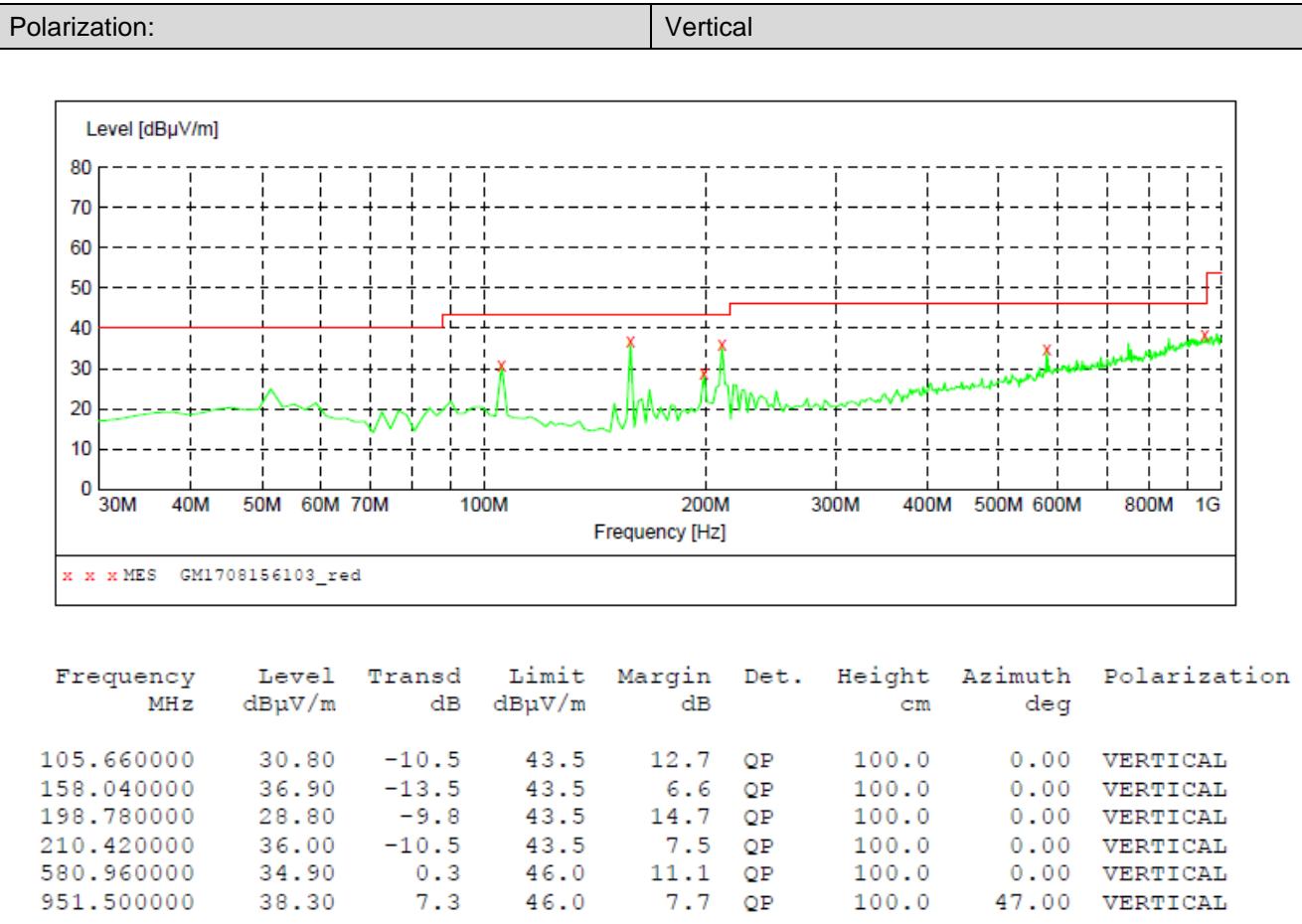
Note:

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

➤ 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 ~ 1GHz



➤ Above 1GHz

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)	Margin Limit (dB)	Polarization	Test value
1795.84	35.89	25.39	5.95	37.13	30.10	74.00	-43.90	Vertical	Peak
3033.91	37.15	28.67	7.52	38.22	35.12	74.00	-38.88	Vertical	
4524.47	36.58	30.75	9.34	37.35	39.32	74.00	-34.68	Vertical	
7245.81	36.73	36.25	11.91	35.02	49.87	74.00	-24.13	Vertical	
1759.64	35.76	25.32	5.88	37.06	29.90	74.00	-44.10	Horizontal	
3436.94	36.56	28.50	8.02	38.50	34.58	74.00	-39.42	Horizontal	
4821.76	35.11	31.56	9.55	36.90	39.32	74.00	-34.68	Horizontal	
7245.81	35.71	36.25	11.91	35.02	48.85	74.00	-25.15	Horizontal	

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)	Margin Limit (dB)	Polarization	Test value
1805.01	36.04	25.39	5.97	37.14	30.26	74.00	-43.74	Vertical	Peak
3128.01	36.62	28.80	7.63	38.21	34.84	74.00	-39.16	Vertical	
4871.10	34.83	31.46	9.59	36.76	39.12	74.00	-34.88	Vertical	
7319.96	35.81	36.30	11.99	34.92	49.18	74.00	-24.82	Vertical	
1732.97	36.30	25.27	5.83	37.00	30.40	74.00	-43.60	Horizontal	
3184.25	36.72	28.80	7.70	38.20	35.02	74.00	-38.98	Horizontal	
4871.10	36.82	31.46	9.59	36.76	41.11	74.00	-32.89	Horizontal	
7319.96	34.62	36.30	11.99	34.92	47.99	74.00	-26.01	Horizontal	

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)	Margin Limit (dB)	Polarization	Test value
1680.83	37.11	25.14	5.73	36.89	31.09	74.00	-42.91	Vertical	Peak
3489.84	36.87	28.92	8.10	38.42	35.47	74.00	-38.53	Vertical	
4920.96	34.15	31.42	9.62	36.62	38.57	74.00	-35.43	Vertical	
7394.88	37.59	36.30	12.06	34.83	51.12	74.00	-22.88	Vertical	
1715.41	37.14	25.23	5.80	36.96	31.21	74.00	-42.79	Horizontal	
4055.37	36.86	29.81	8.82	37.98	37.51	74.00	-36.49	Horizontal	
4920.96	35.61	31.42	9.62	36.62	40.03	74.00	-33.97	Horizontal	
7394.88	35.19	36.30	12.06	34.83	48.72	74.00	-25.28	Horizontal	

Remark:

- Final Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- The emission levels of other frequencies 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)	Margin Limit (dB)	Polarization	Test value
1276.82	36.53	26.22	4.79	36.53	31.01	74.00	-42.99	Vertical	Peak
3384.85	37.54	28.20	7.94	38.52	35.16	74.00	-38.84	Vertical	
5560.50	33.30	31.84	10.24	36.05	39.33	74.00	-34.67	Vertical	
7245.81	33.49	36.25	11.91	35.02	46.63	74.00	-27.37	Vertical	
1759.64	36.38	25.32	5.88	37.06	30.52	74.00	-43.48	Horizontal	
3160.03	37.80	28.80	7.67	38.21	36.06	74.00	-37.94	Horizontal	
4570.77	34.64	30.84	9.41	37.28	37.61	74.00	-36.39	Horizontal	
7245.81	35.95	36.25	11.91	35.02	49.09	74.00	-24.91	Horizontal	

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)	Margin Limit (dB)	Polarization	Test value
1800.42	36.34	25.40	5.96	37.14	30.56	74.00	-43.44	Vertical	Peak
3498.74	37.20	28.99	8.11	38.41	35.89	74.00	-38.11	Vertical	
4547.56	36.89	30.80	9.37	37.32	39.74	74.00	-34.26	Vertical	
7319.96	35.20	36.30	11.99	34.92	48.57	74.00	-25.43	Vertical	
1685.12	36.78	25.16	5.74	36.90	30.78	74.00	-43.22	Horizontal	
3507.65	37.98	29.02	8.13	38.40	36.73	74.00	-37.27	Horizontal	
4971.32	33.72	31.47	9.65	36.48	38.36	74.00	-35.64	Horizontal	
7319.96	35.13	36.30	11.99	34.92	48.50	74.00	-25.50	Horizontal	

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)	Margin Limit (dB)	Polarization	Test value
1724.17	36.25	25.25	5.81	36.98	30.33	74.00	-43.67	Vertical	Peak
3143.98	37.23	28.80	7.65	38.21	35.47	74.00	-38.53	Vertical	
5257.66	34.30	31.38	9.92	36.37	39.23	74.00	-34.77	Vertical	
7099.75	32.37	35.60	11.85	34.93	44.89	74.00	-29.11	Vertical	
1685.12	36.60	25.16	5.74	36.90	30.60	74.00	-43.40	Horizontal	
3184.25	37.55	28.80	7.70	38.20	35.85	74.00	-38.15	Horizontal	
3983.75	36.53	29.70	8.76	38.12	36.87	74.00	-37.13	Horizontal	
7394.88	36.36	36.30	12.06	34.83	49.89	74.00	-24.11	Horizontal	

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- The emission levels of other frequencies 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)	Margin Limit (dB)	Polarization	Test value
1732.97	37.47	25.27	5.83	37.00	31.57	74.00	-42.43	Vertical	Peak
3057.17	37.44	28.72	7.55	38.22	35.49	74.00	-38.51	Vertical	
5073.59	34.59	31.80	9.73	36.33	39.79	74.00	-34.21	Vertical	
7245.81	33.58	36.25	11.91	35.02	46.72	74.00	-27.28	Vertical	
1764.12	35.58	25.33	5.89	37.06	29.74	74.00	-44.26	Horizontal	
3834.51	35.83	29.63	8.55	38.21	35.80	74.00	-38.20	Horizontal	
5821.21	32.95	32.14	10.60	35.33	40.36	74.00	-33.64	Horizontal	
8637.08	32.07	37.52	12.93	34.48	48.04	74.00	-25.96	Horizontal	

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)	Margin Limit (dB)	Polarization	Test value
1805.01	36.28	25.39	5.97	37.14	30.50	74.00	-43.50	Vertical	Peak
3588.94	36.24	29.27	8.25	38.29	35.47	74.00	-38.53	Vertical	
5099.49	33.16	31.90	9.75	36.30	38.51	74.00	-35.49	Vertical	
7319.96	32.82	36.30	11.99	34.92	46.19	74.00	-27.81	Vertical	
1676.56	36.25	25.13	5.72	36.88	30.22	74.00	-43.78	Horizontal	
3489.84	37.50	28.92	8.10	38.42	36.10	74.00	-37.90	Horizontal	
6678.99	32.22	34.20	11.45	35.21	42.66	74.00	-31.34	Horizontal	
7319.96	33.48	36.30	11.99	34.92	46.85	74.00	-27.15	Horizontal	

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)	Margin Limit (dB)	Polarization	Test value
1755.16	36.33	25.31	5.87	37.05	30.46	74.00	-43.54	Vertical	Peak
3033.91	36.76	28.67	7.52	38.22	34.73	74.00	-39.27	Vertical	
4076.07	35.82	29.85	8.84	37.94	36.57	74.00	-37.43	Vertical	
7394.88	33.95	36.30	12.06	34.83	47.48	74.00	-26.52	Vertical	
1809.61	35.87	25.39	5.97	37.15	30.08	74.00	-43.92	Horizontal	
3151.99	36.23	28.80	7.66	38.21	34.48	74.00	-39.52	Horizontal	
4536.00	35.72	30.77	9.35	37.34	38.50	74.00	-35.50	Horizontal	
7394.88	36.01	36.30	12.06	34.83	49.54	74.00	-24.46	Horizontal	

Remark:

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

802.11n(HT40) CH03									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1768.62	36.37	25.34	5.90	37.07	30.54	74.00	-43.46	Vertical	Peak
3747.66	36.53	29.44	8.44	38.24	36.17	74.00	-37.83	Vertical	
5034.99	34.32	31.64	9.70	36.37	39.29	74.00	-34.71	Vertical	
7961.43	32.66	36.95	12.49	34.63	47.47	74.00	-26.53	Vertical	
1755.16	37.18	25.31	5.87	37.05	31.31	74.00	-42.69	Horizontal	
3588.94	37.20	29.27	8.25	38.29	36.43	74.00	-37.57	Horizontal	
4983.99	34.38	31.48	9.66	36.44	39.08	74.00	-34.92	Horizontal	
8484.55	34.43	36.85	12.87	34.37	49.78	74.00	-24.22	Horizontal	

802.11n(HT40) CH06									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1741.81	35.77	25.29	5.85	37.02	29.89	74.00	-44.11	Vertical	Peak
3120.06	36.93	28.80	7.62	38.21	35.14	74.00	-38.86	Vertical	
5112.49	33.39	31.85	9.76	36.29	38.71	74.00	-35.29	Vertical	
8002.06	32.89	37.10	12.30	34.53	47.76	74.00	-26.24	Vertical	
1238.41	36.26	26.26	4.73	36.55	30.70	74.00	-43.30	Horizontal	
3176.16	36.51	28.80	7.69	38.20	34.80	74.00	-39.20	Horizontal	
5022.19	33.85	31.59	9.69	36.38	38.75	74.00	-35.25	Horizontal	
7301.36	33.26	36.30	11.97	34.95	46.58	74.00	-27.42	Horizontal	

802.11n(HT40) CH09									
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Test value
1764.12	36.03	25.33	5.89	37.06	30.19	74.00	-43.81	Vertical	Peak
3480.97	37.44	28.85	8.09	38.44	35.94	74.00	-38.06	Vertical	
5086.52	34.35	31.85	9.74	36.31	39.63	74.00	-34.37	Vertical	
9859.47	33.93	39.10	13.61	34.93	51.71	74.00	-22.29	Vertical	
1737.38	36.12	25.28	5.84	37.01	30.23	74.00	-43.77	Horizontal	
3184.25	36.97	28.80	7.70	38.20	35.27	74.00	-38.73	Horizontal	
4871.10	35.80	31.46	9.59	36.76	40.09	74.00	-33.91	Horizontal	
7357.33	33.99	36.30	12.03	34.88	47.44	74.00	-26.56	Horizontal	

Remark:

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

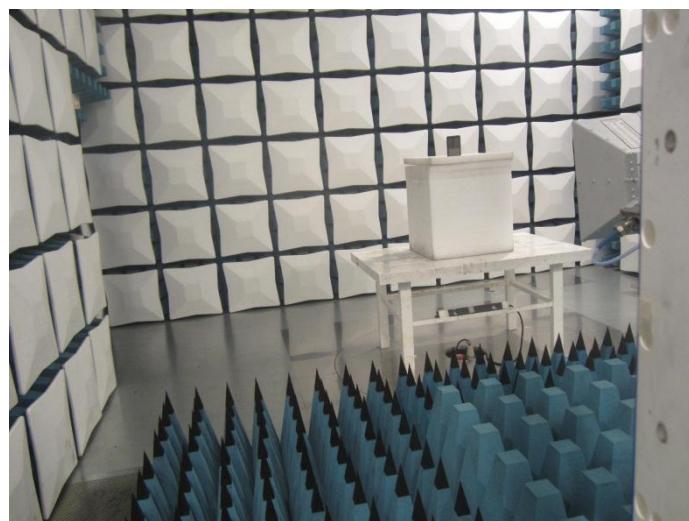
6. Test Setup Photos of the EUT

Conducted Emissions (AC Mains)



Radiated Emissions





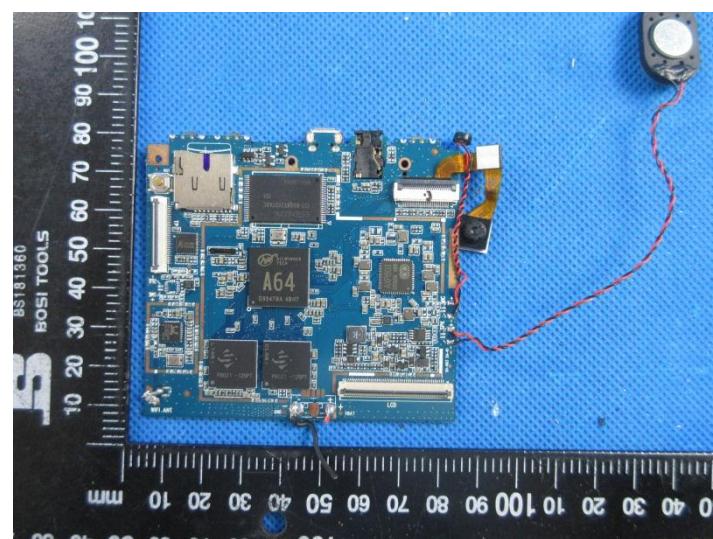
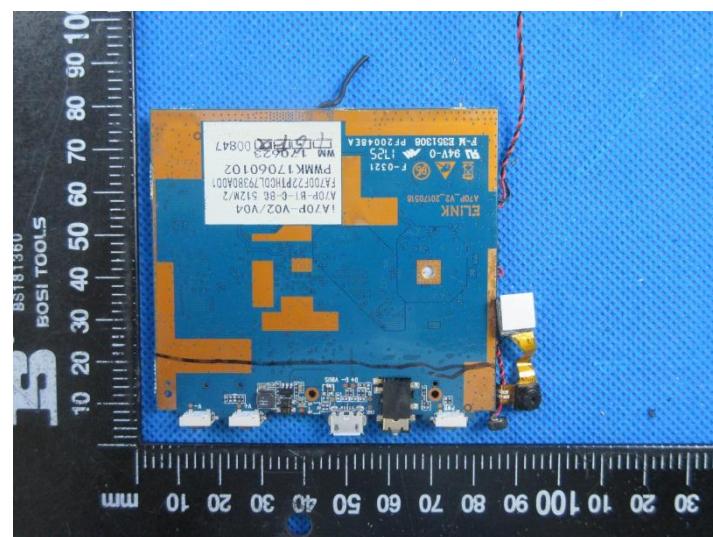
7. External and Internal Photos of the EUT

External Photos of the EUT





Internal Photos of the EUT



.....End of Report.....