

FCC REPORT (WIFI)

Applicant: SHEN ZHEN TOMSTAR TECHNOLOGY CO., LTD

Address of Applicant: Room 2110-2116, huafeng international building, No. 4018
BaoAn Blvd, Shenzhen, China

Equipment Under Test (EUT)

Product Name: Tablet

Model No.: T7A6, T7A6N, T7A6AFA, T7A6SKIN, M70

Trade mark: NOBLEX

FCC ID: 2APD3T7A6N

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: 21 Mar., 2018

Date of Test: 21 Mar., to 28 Apr., 2018

Date of report issued: 28 Apr., 2018

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	28 Apr., 2018	<i>Original</i>

Tested by:

Zora Lee

Date:

28 Apr., 2018

Test Engineer

Reviewed by:

Wimer Zhang

Date:

28 Apr., 2018

Project Engineer

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4 Test Summary

Test Items	Section in CFR 47	Result
Antenna requirement	15.203 & 15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.247 (b)(3)	Pass
6dB Emission Bandwidth 99% Occupied Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247 (d)	Pass
Spurious Emission	15.205 & 15.209	Pass

Pass: The EUT complies with the essential requirements in the standard.
N/A: N/A: Not Applicable.

5 General Information

5.1 Client Information

Applicant:	SHEN ZHEN TOMSTAR TECHNOLOGY CO., LTD
Address:	Room 2110-2116, huafeng international building, No. 4018 BaoAn Blvd, Shenzhen, China
Manufacturer:	SHEN ZHEN TOMSTAR TECHNOLOGY CO., LTD
Address:	Room 2110-2116, huafeng international building, No. 4018 BaoAn Blvd, Shenzhen, China

5.2 General Description of E.U.T.

Product Name:	Tablet
Model No.:	T7A6, T7A6N, T7A6AFA, T7A6SKIN, M70
Operation Frequency:	2412MHz~2462MHz (802.11b/802.11g/802.11n(H20)) 2422MHz~2452MHz (802.11n(H40))
Channel numbers:	11 for 802.11b/802.11g/802.11(H20) 7 for 802.11n(H40)
Channel separation:	5MHz
Modulation technology: (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Modulation technology: (IEEE 802.11g/802.11n)	Orthogonal Frequency Division Multiplexing(OFDM)
Data speed (IEEE 802.11b):	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data speed (IEEE 802.11g):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n):	Up to 150Mbps
Antenna Type:	Internal Antenna
Antenna gain:	2.10 dBi
Power supply:	Rechargeable Li-ion Battery DC3.7V-2800mAh
AC adapter:	Adapter(1): Model: FJ-SW1260502000DU Input: AC100-240V, 50/60Hz, 0.4A Output: DC 5.0V, 2000mA Adapter(2): Model: TEKA012-0502000XX Input: AC100-240V, 50/60Hz, 0.3A Output: DC 5.0V, 2A
Remark:	The No.: T7A6, T7A6N, T7A6AFA, T7A6SKIN, M70 were identical inside, the electrical circuit design, layout, components used and internal wiring, with only difference being model name for different areas.

Operation Frequency each of channel for 802.11b/g/n(H20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		

Note:

- For 802.11n-HT40 mode, the channel number is from 3 to 9;
- Channel 1, 6 & 11 selected for 802.11b/g/n-HT20 as Lowest, Middle and Highest channel, Channel; 3, 6 & 9 selected for 802.11n-HT40 as Lowest, Middle and Highest channel, Channel.

5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Transmitting mode	Keep the EUT in continuous transmitting with modulation
<p>The sample was placed 0.8m (below 1GHz)/1.5m (above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.</p> <p>We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:</p>	
Per-scan all kind of data rate, the follow list were the worst case.	
Mode	Data rate
802.11b	1Mbps
802.11g	6Mbps
802.11n(H20)	6.5Mbps
802.11n(H40)	13.5Mbps

5.4 Description of Support Units

The EUT has been tested as an independent unit.

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	2.14 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	4.24 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	4.35 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	4.44 dB (k=2)
Radiated Emission (18GHz ~ 26.5GHz)	4.56 dB (k=2)

5.6 Laboratory Facility

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

- **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.7 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

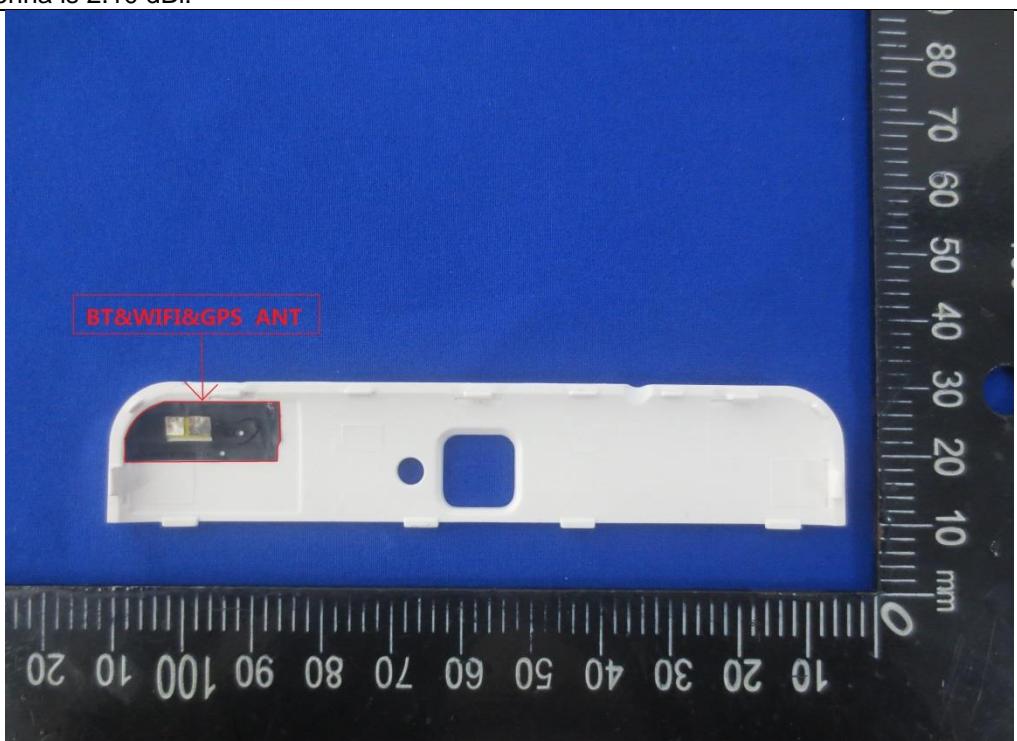
5.8 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-16-2018	03-15-2019
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2018
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A

6 Test results and Measurement Data

6.1 Antenna requirement

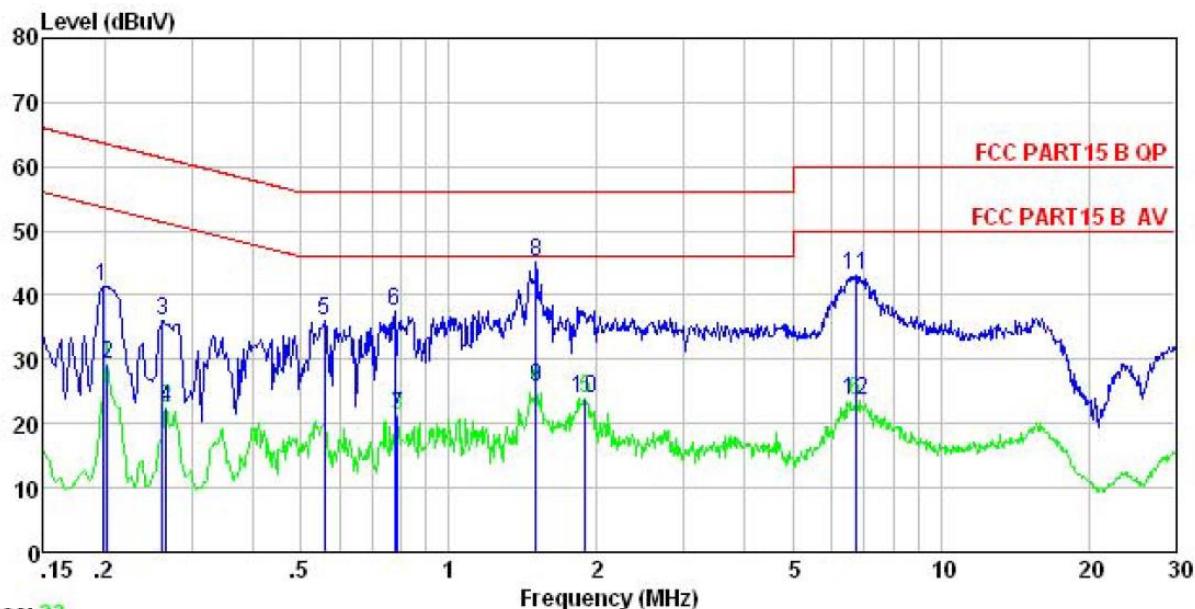
Standard requirement:	FCC Part 15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique 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.	15.247(c) (1)(i) requirement: (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.
E.U.T Antenna:	The WiFi antenna is an internal antenna which cannot replace by end-user, the best case gain of the antenna is 2.10 dBi. 

6.2 Conducted Emission

Test Requirement:	FCC Part 15 C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150 kHz to 30 MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9 kHz, VBW=30 kHz		
Limit:	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 procedure	<ol style="list-style-type: none"> The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.), which provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 		
Test setup:	<p>Reference Plane</p> <p>LISN</p> <p>AUX Equipment</p> <p>E.U.T</p> <p>Test table/Insulation plane</p> <p>EMI Receiver</p> <p>Filter</p> <p>AC power</p> <p>40cm</p> <p>80cm</p> <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test Instruments:	Refer to section 5.8 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Passed		

Measurement Data:**Adapter(1)**

Test Phase: Neutral

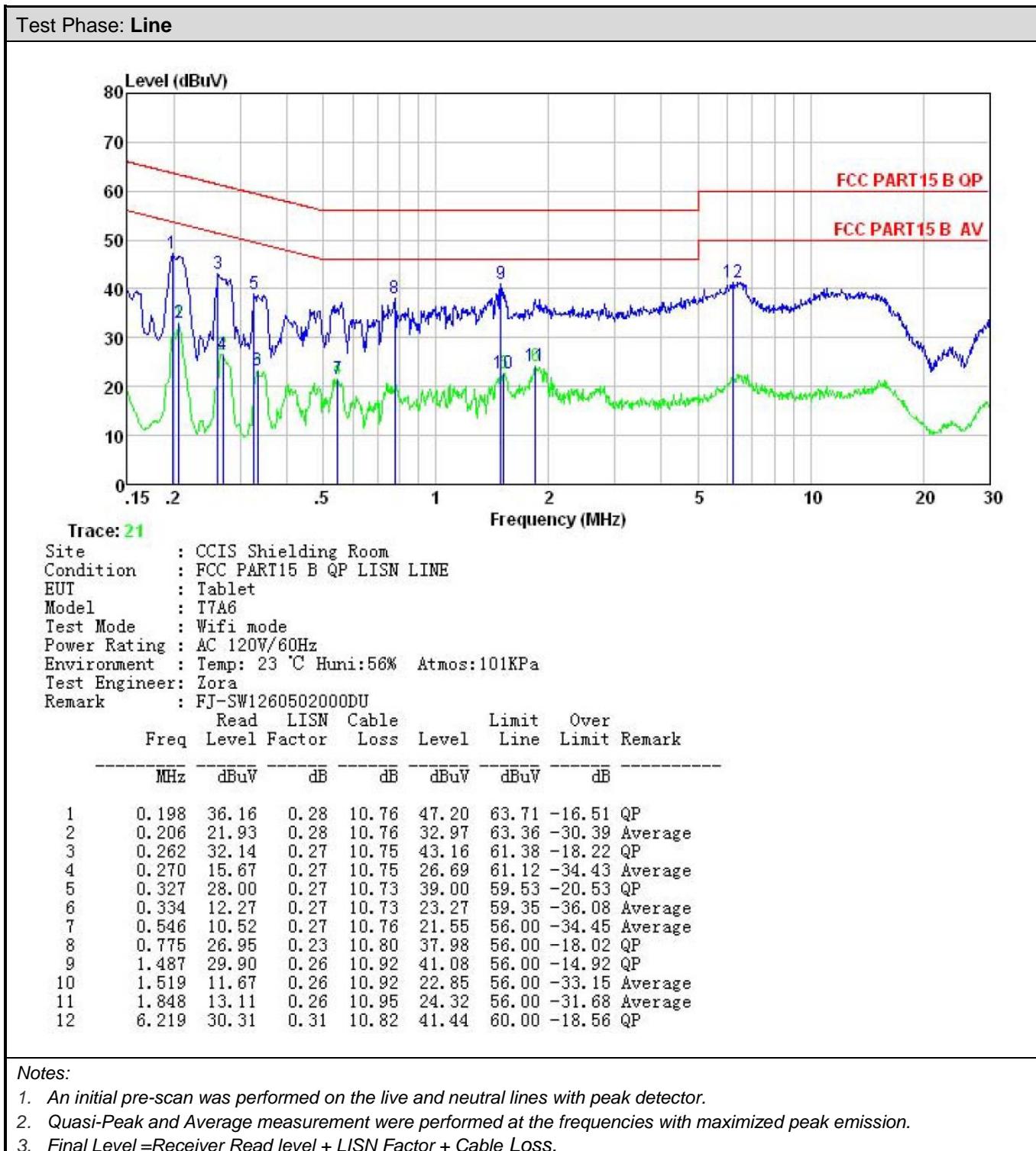


Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN NEUTRAL
 EUT : Tablet
 Model : T7A6
 Test Mode : Wifi mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Zora
 Remark : FJ-SW1260502000DU

Freq	Read	LISN	Cable	Limit	Over	Remark
	MHz	dBuV	Factor	Loss	Level	
1	0.198	30.40	0.25	10.76	41.41	63.71 -22.30 QP
2	0.202	18.35	0.25	10.76	29.36	53.54 -24.18 Average
3	0.262	25.10	0.26	10.75	36.11	61.38 -25.27 QP
4	0.266	11.36	0.26	10.75	22.37	51.25 -28.88 Average
5	0.558	25.08	0.25	10.77	36.10	56.00 -19.90 QP
6	0.775	26.62	0.19	10.80	37.61	56.00 -18.39 QP
7	0.788	10.18	0.19	10.81	21.18	46.00 -24.82 Average
8	1.503	33.85	0.26	10.92	45.03	56.00 -10.97 QP
9	1.503	14.36	0.26	10.92	25.54	46.00 -20.46 Average
10	1.898	12.75	0.29	10.95	23.99	46.00 -22.01 Average
11	6.698	31.93	0.26	10.81	43.00	60.00 -17.00 QP
12	6.698	12.57	0.26	10.81	23.64	50.00 -26.36 Average

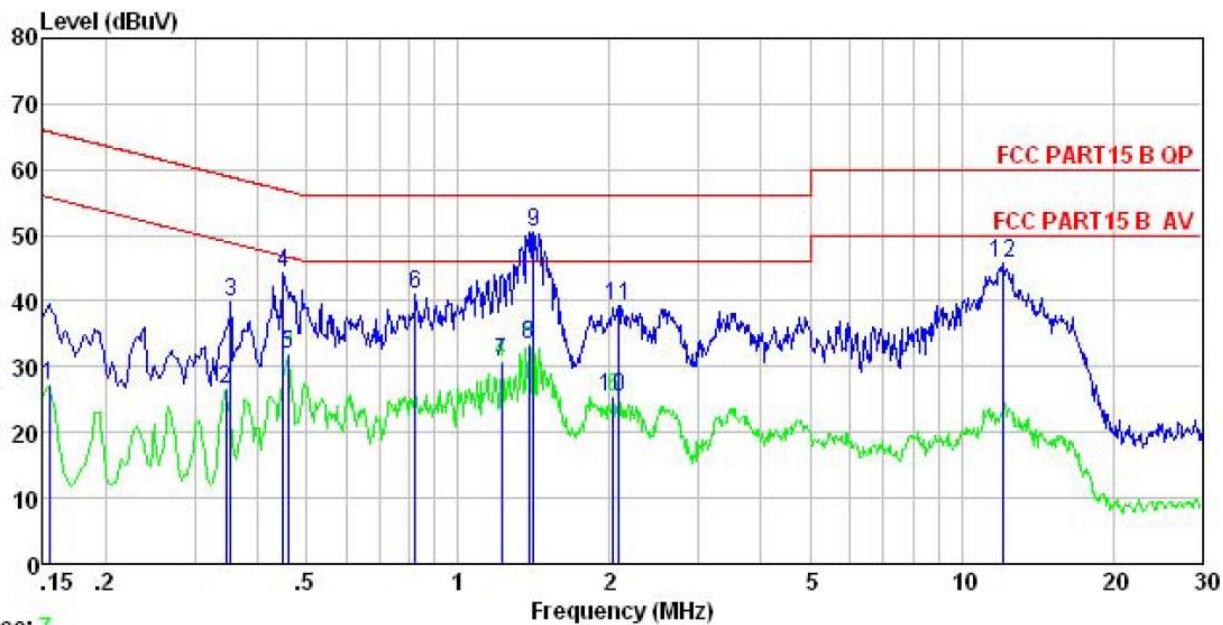
Notes:

- An initial pre-scan was performed on the live and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level = Receiver Read level + LISN Factor + Cable Loss.



Adapter(2)

Test Phase: Neutral



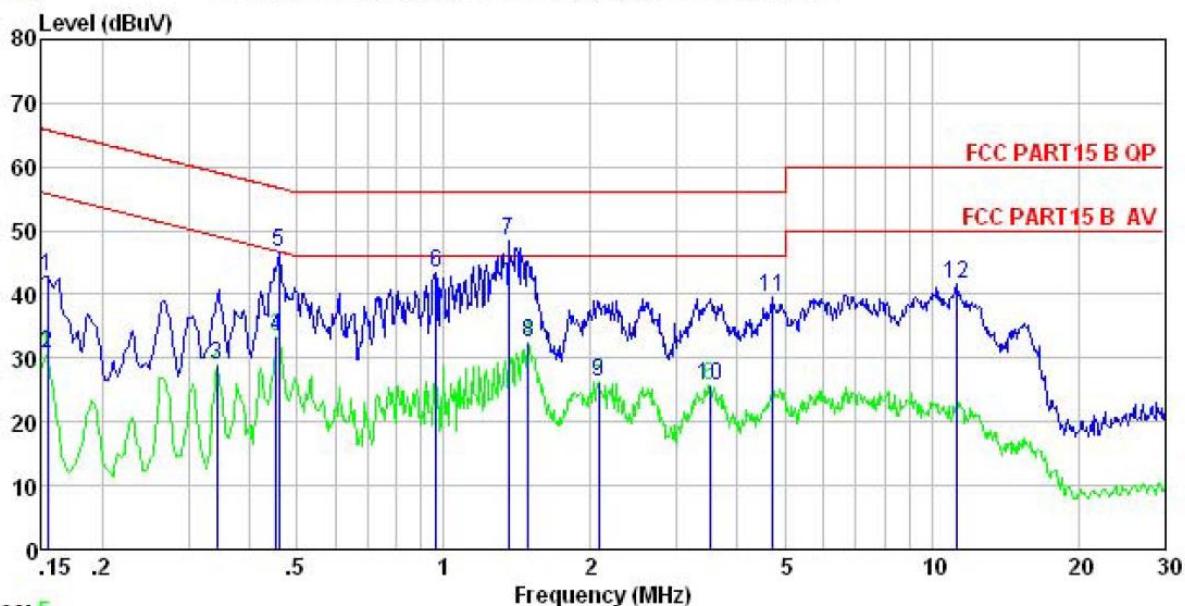
Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN NEUTRAL
 EUT : Tablet
 Model : T7A6
 Test Mode : Wifi mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Zora
 Remark : TEKA012-0502000XX

	Read Freq	LISN Level	Cable Factor	Line Loss	Limit dBuV	Over Line Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dB	
1	0.154	16.09	0.25	10.78	27.12	55.78	-28.66 Average
2	0.346	15.64	0.25	10.73	26.62	49.05	-22.43 Average
3	0.354	28.93	0.25	10.73	39.91	58.87	-18.96 QP
4	0.449	33.22	0.27	10.74	44.23	56.89	-12.66 QP
5	0.459	20.72	0.28	10.75	31.75	46.71	-14.96 Average
6	0.822	30.07	0.20	10.82	41.09	56.00	-14.91 QP
7	1.223	19.61	0.24	10.90	30.75	46.00	-15.25 Average
8	1.381	22.05	0.25	10.91	33.21	46.00	-12.79 Average
9	1.411	39.22	0.25	10.91	50.38	56.00	-5.62 QP
10	2.033	14.16	0.29	10.96	25.41	46.00	-20.59 Average
11	2.077	28.13	0.29	10.96	39.38	56.00	-16.62 QP
12	12.124	34.68	0.25	10.92	45.85	60.00	-14.15 QP

Notes:

- An initial pre-scan was performed on the live and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level = Receiver Read level + LISN Factor + Cable Loss.

Test Phase: Line



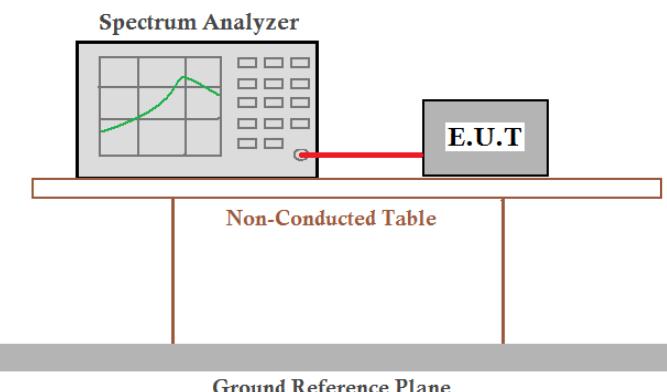
Site : CCIS Shielding Room
 Condition : FCC PART15 B QP LISN LINE
 EUT : Tablet
 Model : T7A6
 Test Mode : Wifi mode
 Power Rating : AC 120V/60Hz
 Environment : Temp: 23 °C Humi:56% Atmos:101KPa
 Test Engineer: Zora
 Remark : TEKA012-0502000XX

	Read	LISN	Cable	Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV		dB	dBuV	dBuV	dB	
1	0.154	31.81	0.27	10.78	42.86	65.78	-22.92 QP
2	0.154	19.51	0.27	10.78	30.56	55.78	-25.22 Average
3	0.343	17.92	0.27	10.73	28.92	49.13	-20.21 Average
4	0.454	22.46	0.29	10.74	33.49	46.80	-13.31 Average
5	0.459	35.64	0.29	10.75	46.68	56.71	-10.03 QP
6	0.963	32.37	0.25	10.86	43.48	56.00	-12.52 QP
7	1.359	37.40	0.25	10.91	48.56	56.00	-7.44 QP
8	1.487	21.28	0.26	10.92	32.46	46.00	-13.54 Average
9	2.077	15.17	0.26	10.96	26.39	46.00	-19.61 Average
10	3.509	14.49	0.28	10.90	25.67	46.00	-20.33 Average
11	4.696	28.55	0.29	10.86	39.70	56.00	-16.30 QP
12	11.257	30.31	0.31	10.93	41.55	60.00	-18.45 QP

Notes:

- An initial pre-scan was performed on the live and neutral lines with peak detector.
- Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- Final Level = Receiver Read level + LISN Factor + Cable Loss.

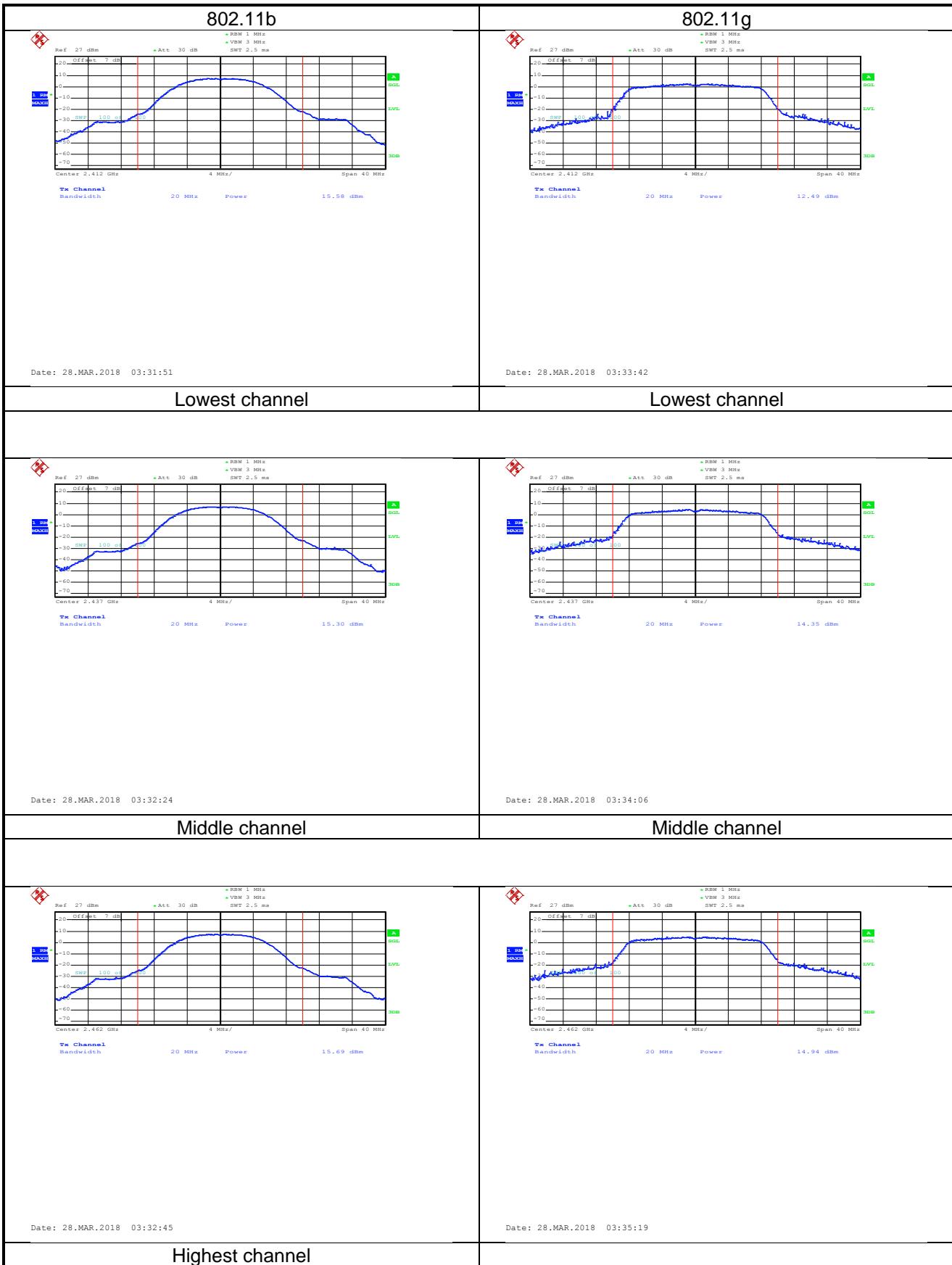
6.3 Conducted Output Power

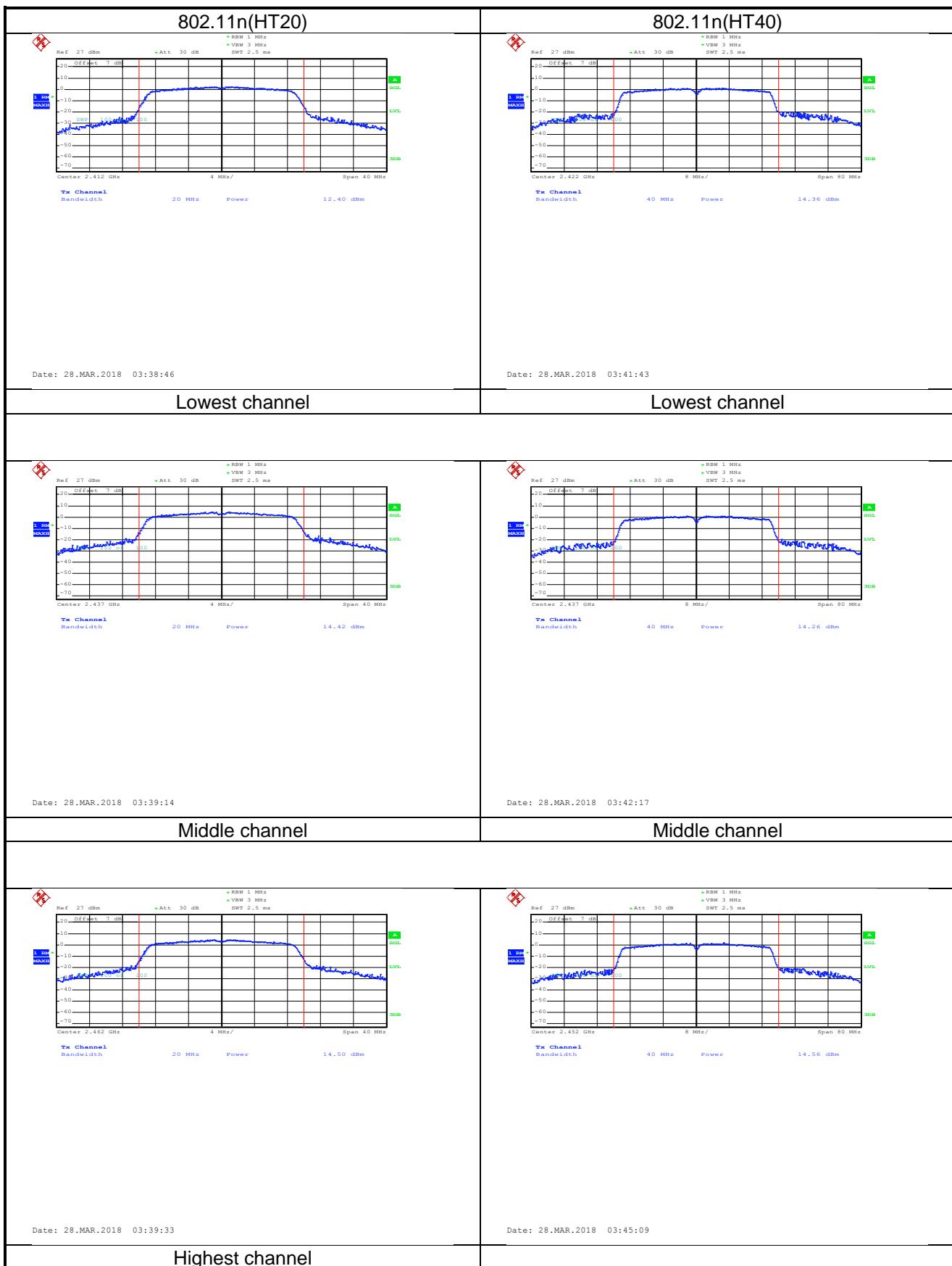
Test Requirement:	FCC Part 15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	30dBm
Test setup:	 <p>The diagram illustrates the test setup for conducted output power. A Spectrum Analyzer is connected to the Equipment Under Test (E.U.T) via a cable. The E.U.T is placed on a Non-Conducted Table. The entire assembly sits on a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

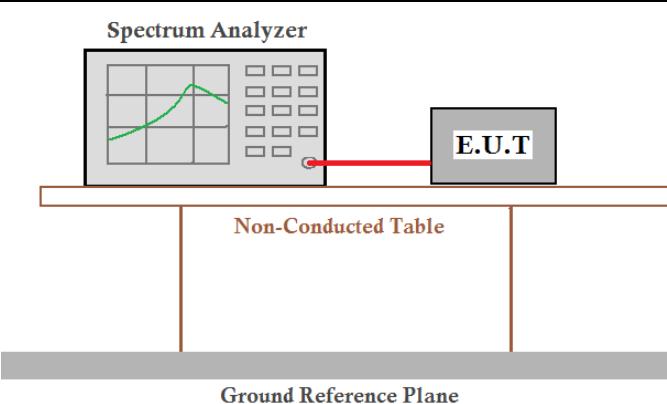
Test CH	Maximum Conducted Output Power (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	15.58	12.49	12.40	14.36	30.00	Pass
Middle	15.30	14.35	14.42	14.26		
Highest	15.69	14.94	14.50	14.56		

Test plot as follows:





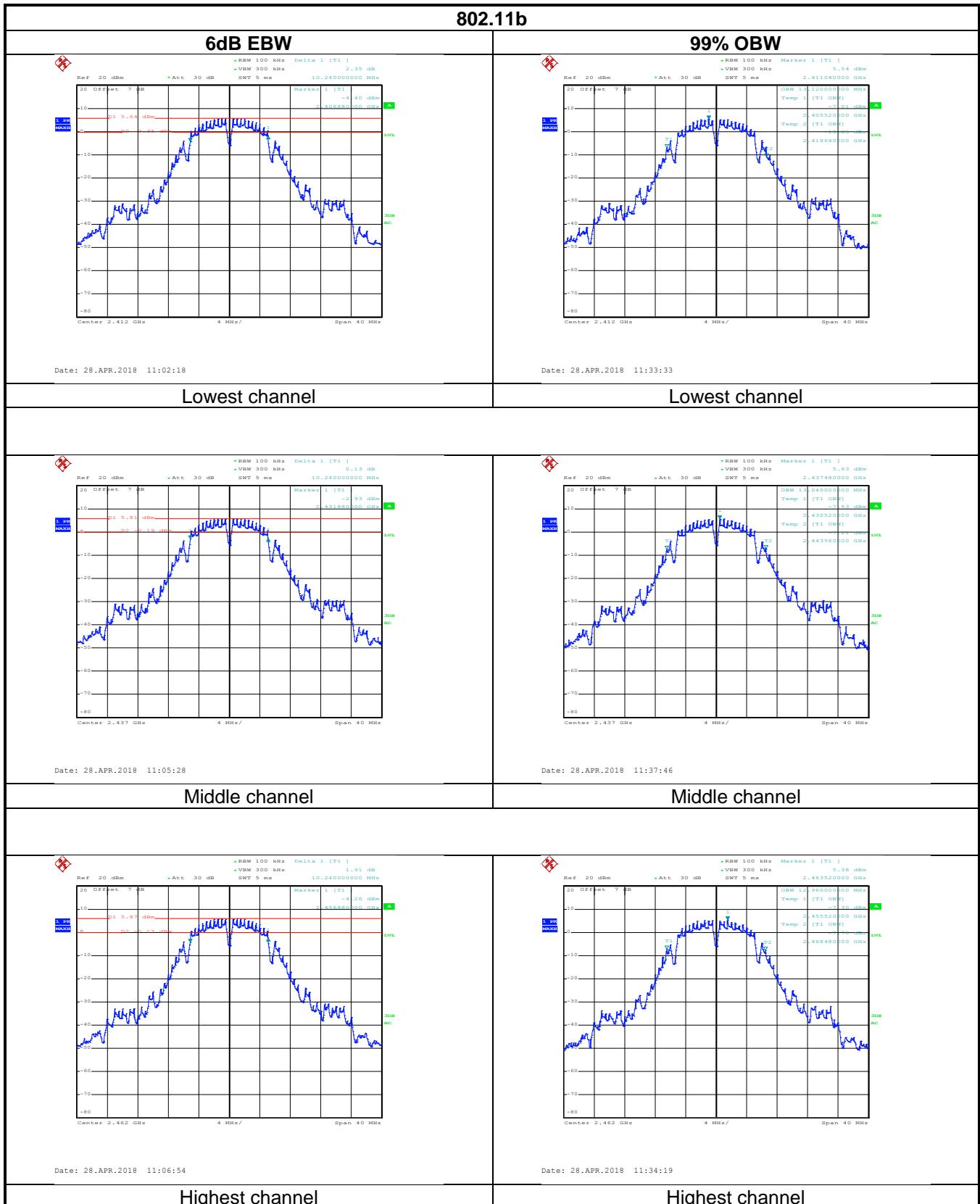
6.4 Occupy Bandwidth

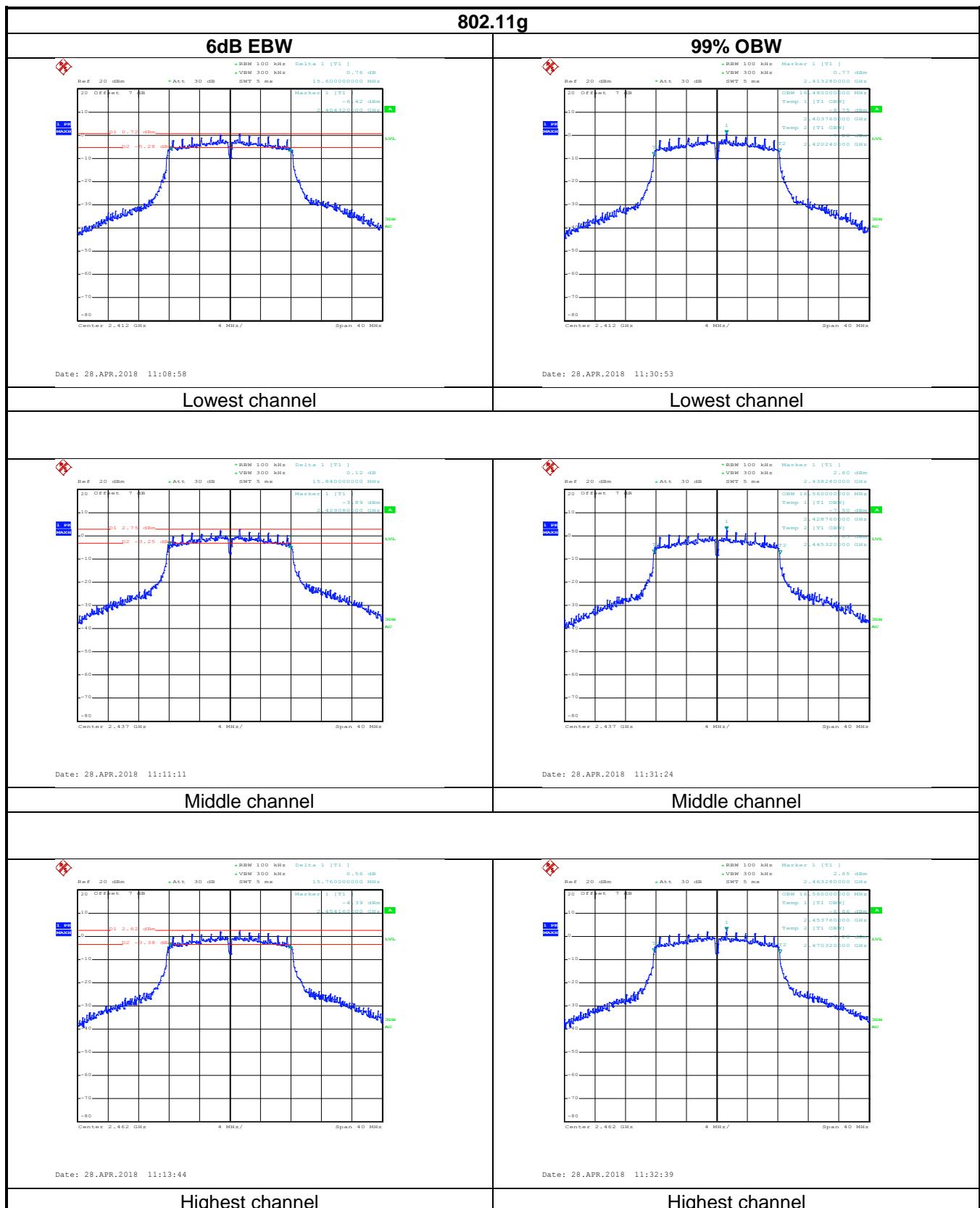
Test Requirement:	FCC Part 15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	>500kHz
Test setup:	 <p>The diagram illustrates the measurement setup. A Spectrum Analyzer is connected to the Equipment Under Test (E.U.T) via a cable. The E.U.T is positioned on a Non-Conducted Table. The entire setup rests on a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

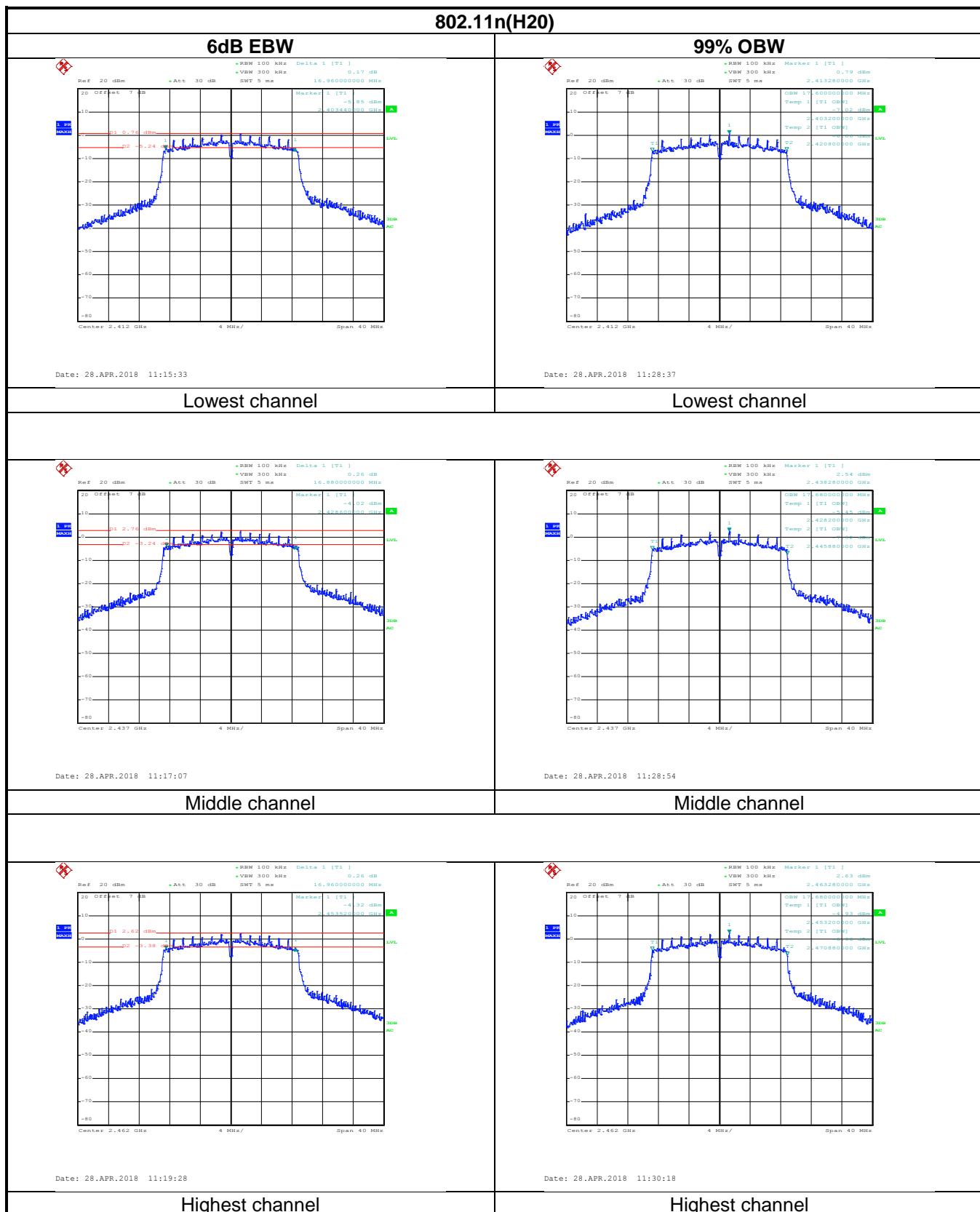
Measurement Data:

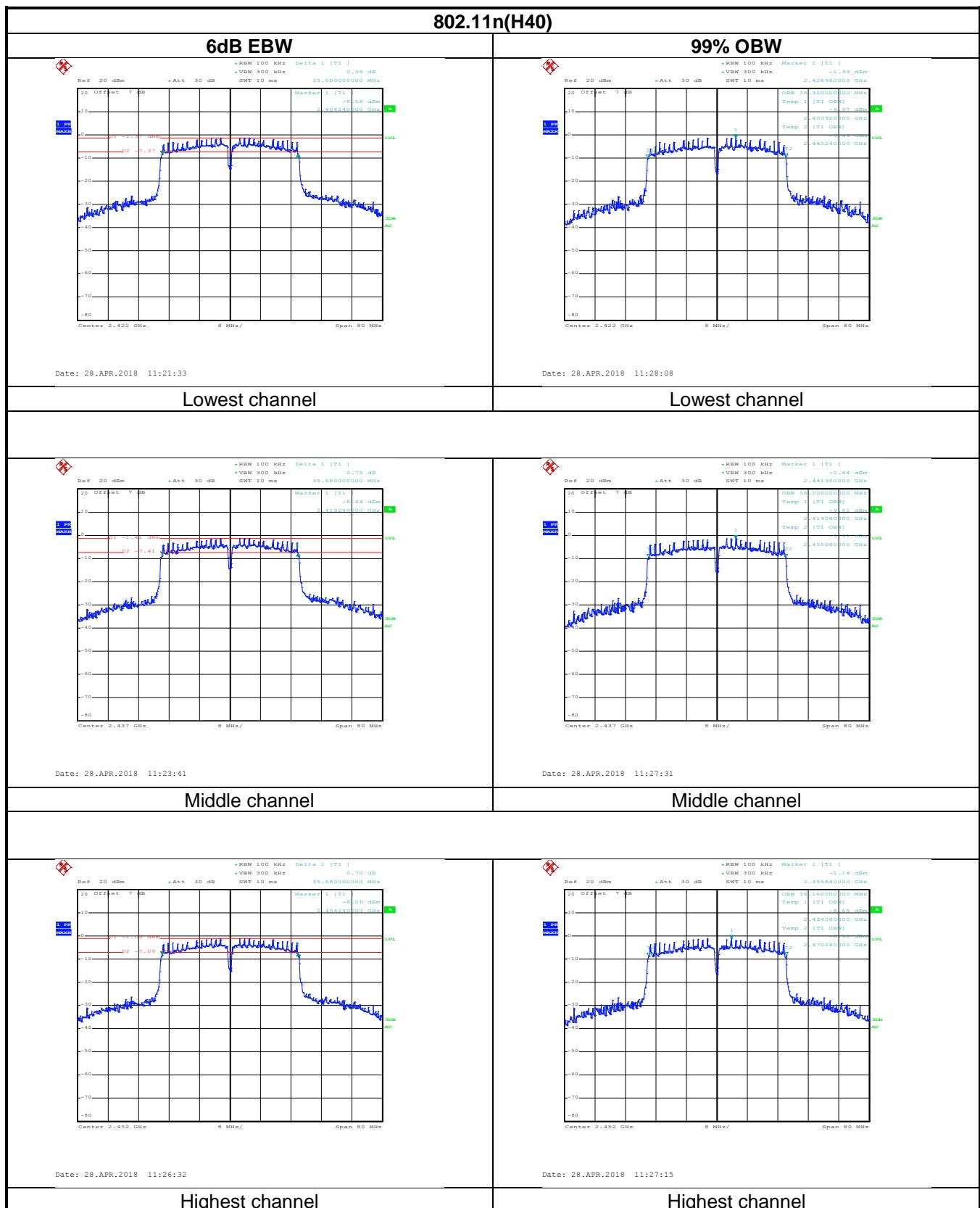
Test CH	6dB Emission Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	10.24	15.60	16.96	35.68	>500	Pass
Middle	10.24	15.84	16.88	35.68		
Highest	10.24	15.76	16.96	35.68		
Test CH	99% Occupy Bandwidth (MHz)				Limit(kHz)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	13.12	16.48	17.60	36.32		N/A
Middle	13.04	16.56	17.68	36.00		
Highest	12.96	16.56	17.68	36.00		

Test plot as follows:

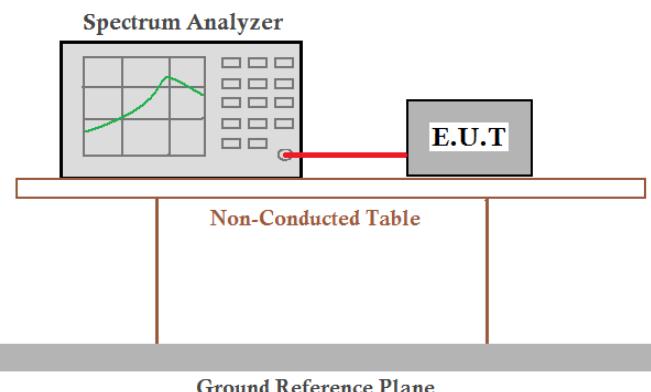








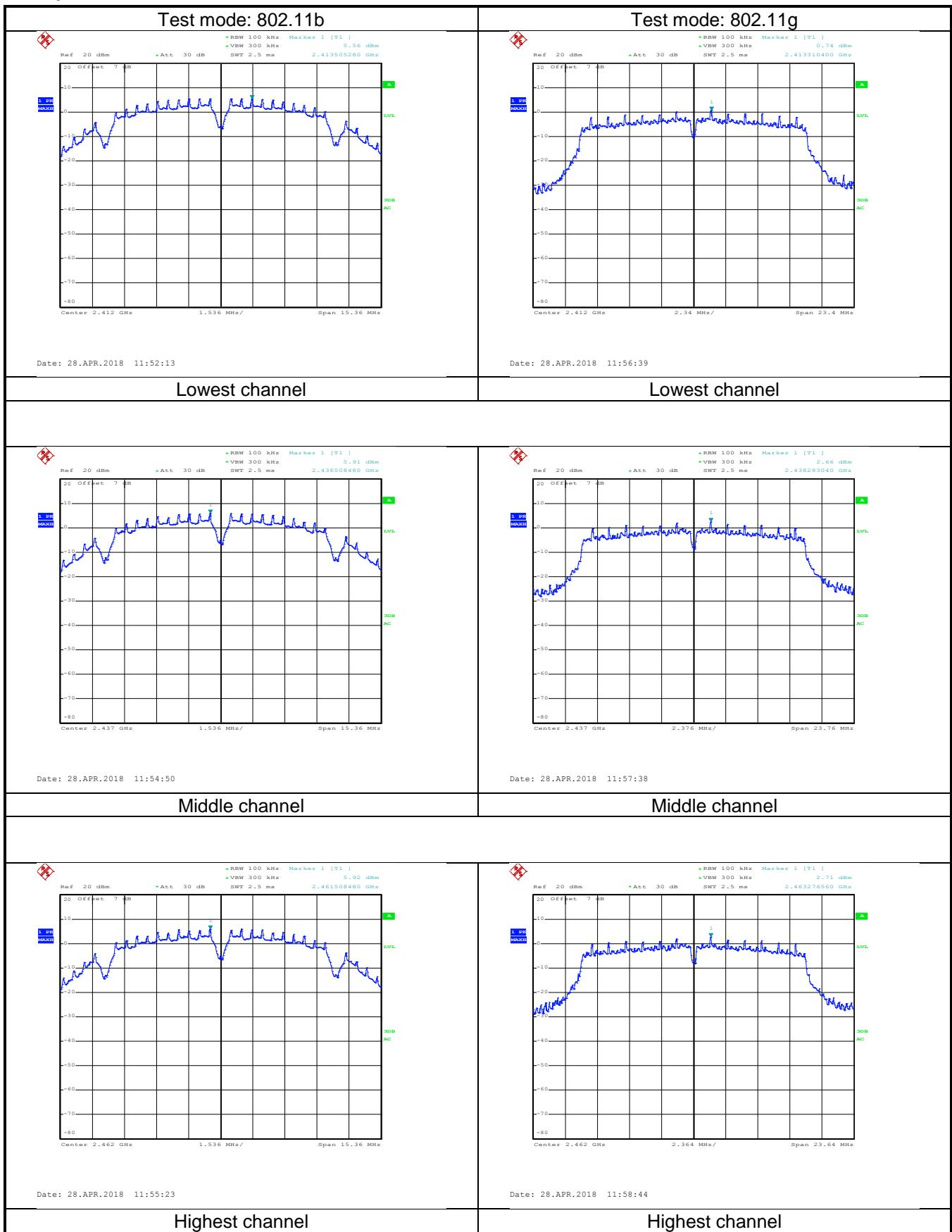
6.5 Power Spectral Density

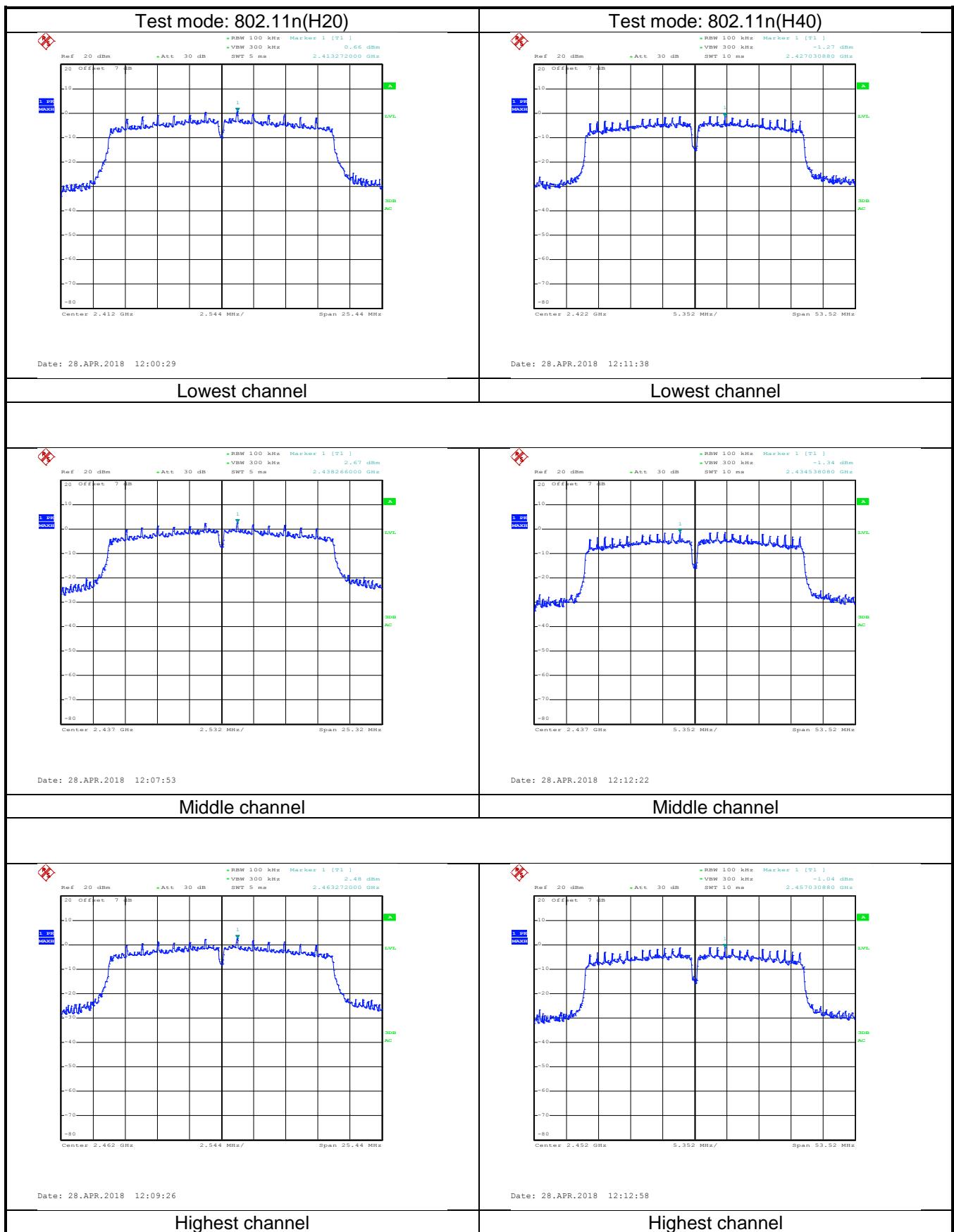
Test Requirement:	FCC Part 15 C Section 15.247 (e)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	8dBm
Test setup:	 <p>The diagram illustrates the test setup. A 'Spectrum Analyzer' is connected to the 'E.U.T' (Equipment Under Test) via a red cable. The E.U.T is positioned on a 'Non-Conducted Table'. Below the table is a grey horizontal bar labeled 'Ground Reference Plane'.</p>
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

Test CH	Power Spectral Density (dBm)				Limit(dBm)	Result
	802.11b	802.11g	802.11n(H20)	802.11n(H40)		
Lowest	5.56	0.74	0.66	-1.27	8.00	Pass
Middle	5.91	2.66	2.67	-1.34		
Highest	5.92	2.71	2.48	-1.04		

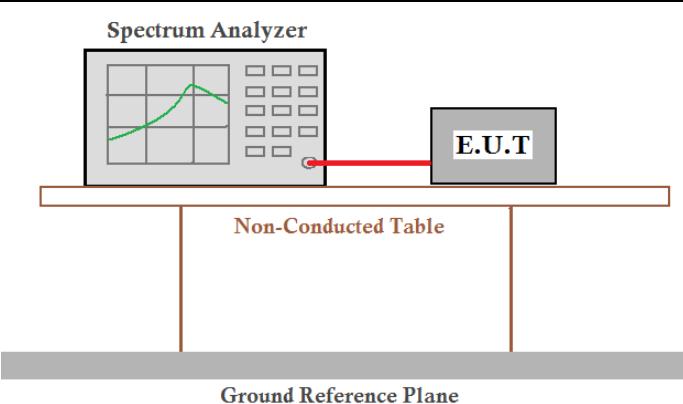
Test plot as follows:



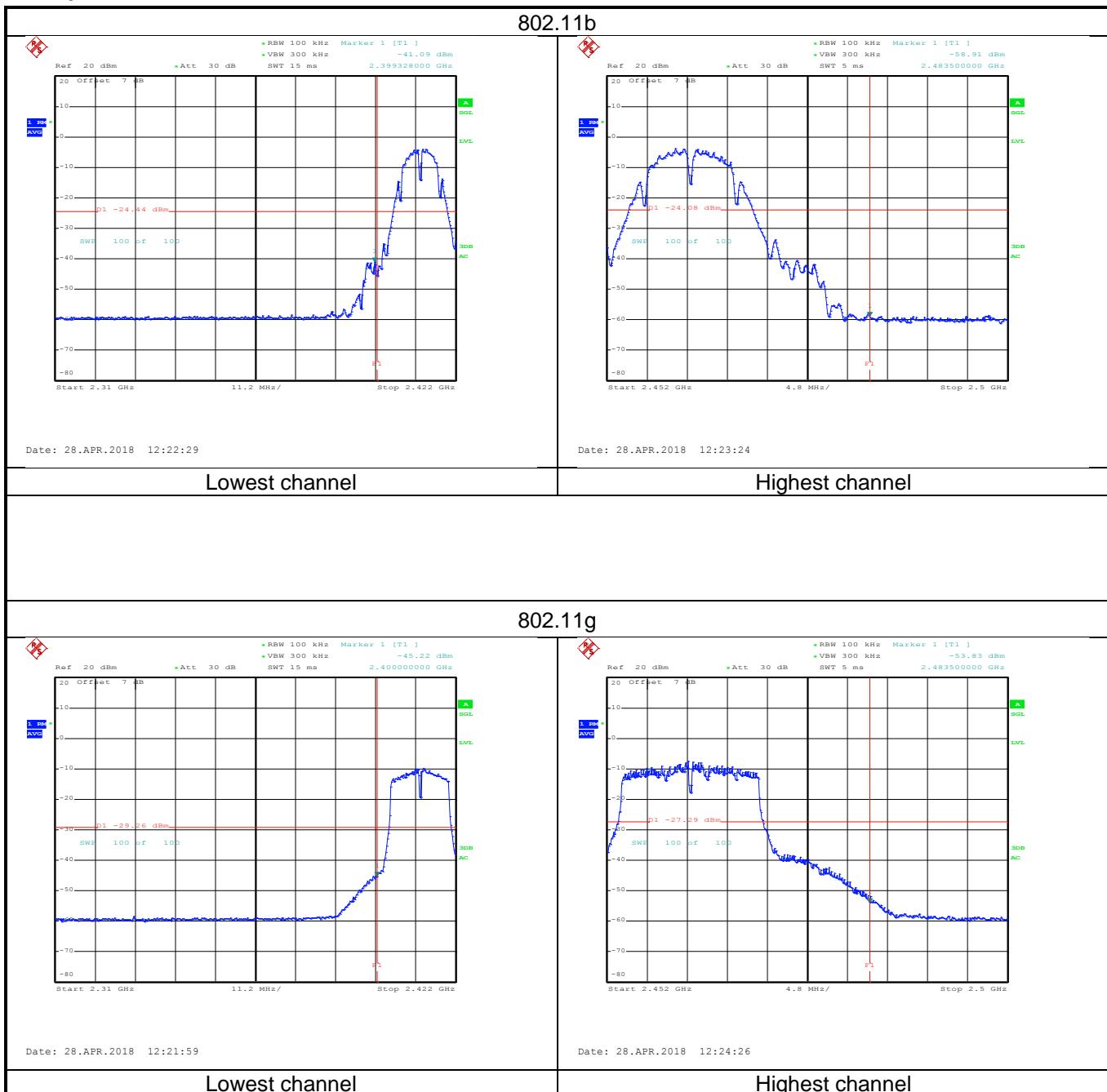


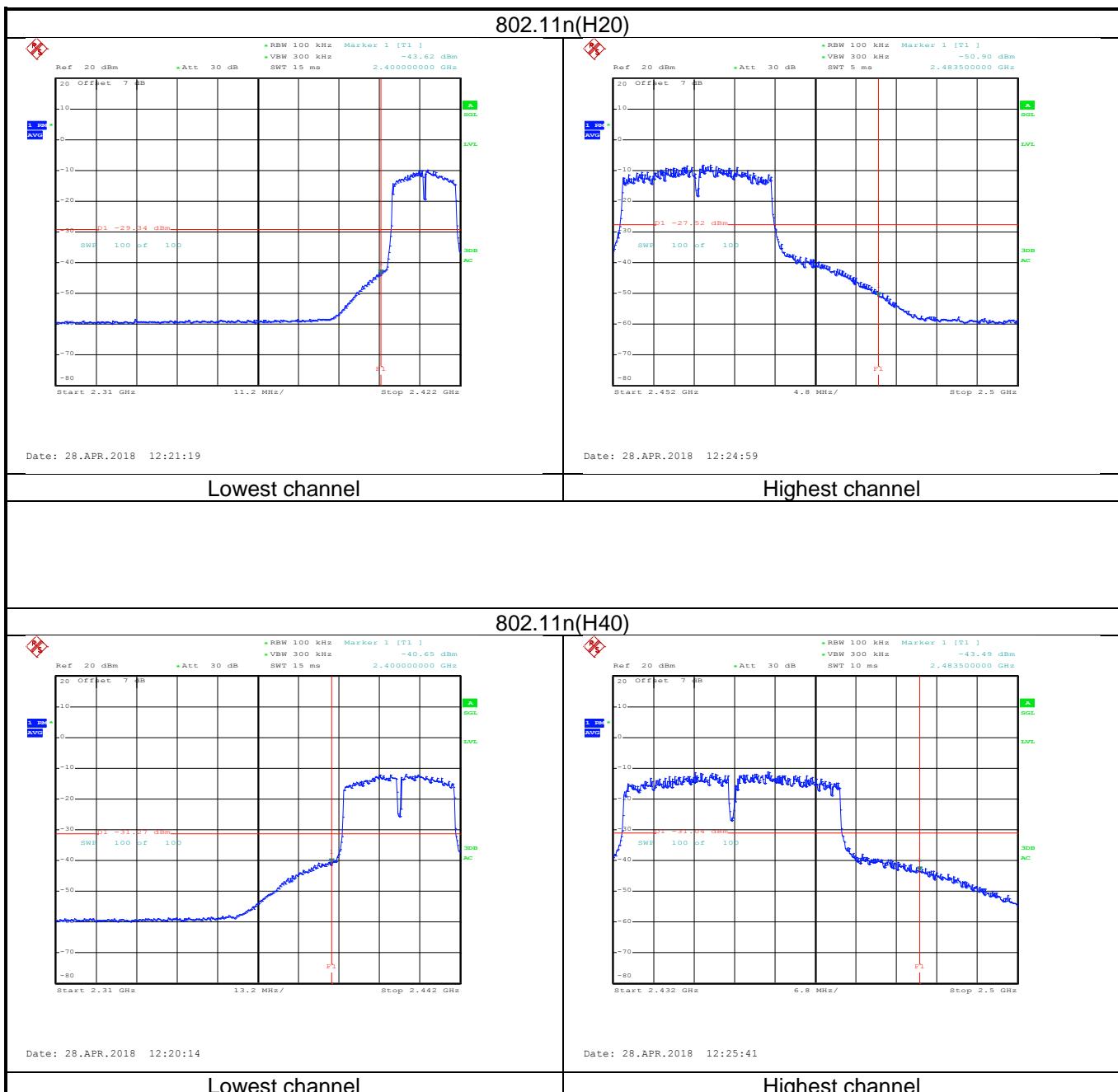
6.6 Band Edge

6.6.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	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 30 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 setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Test plot as follows:





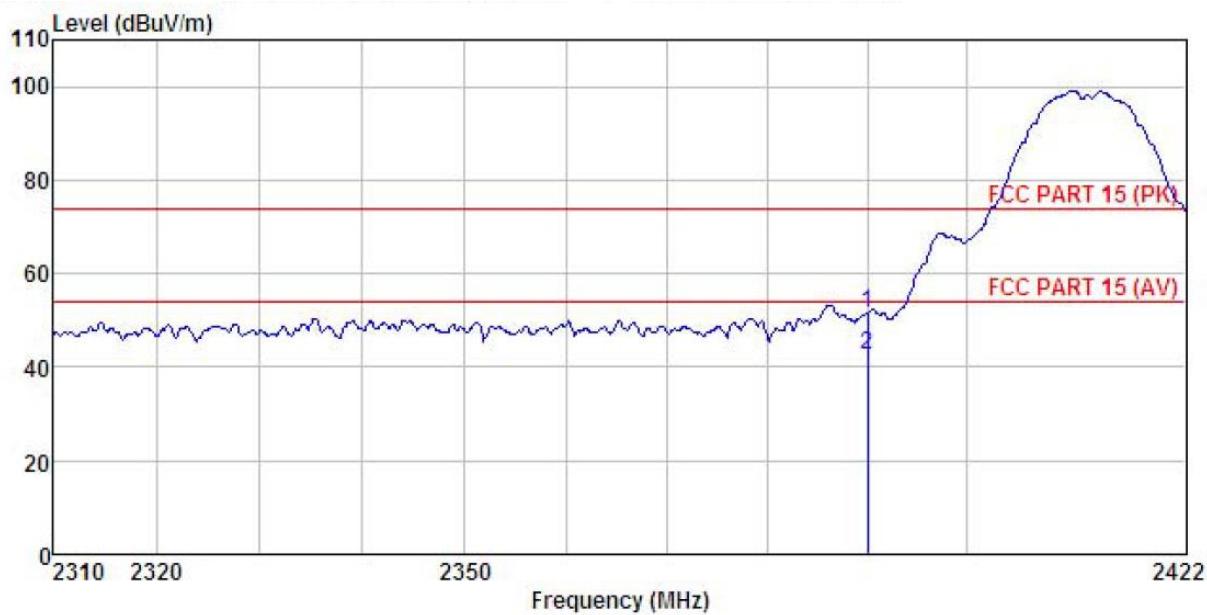
6.6.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205										
Test Method:	ANSI C63.10: 2013 and KDB 558074										
Test Frequency Range:	2.3GHz to 2.5GHz										
Test Distance:	3m										
Receiver setup:	Frequency	Detector	RBW	VBW	Remark						
	Above 1GHz	Peak	1MHz	3MHz	Peak Value						
Limit:	Frequency	Limit (dBuV/m @3m)		Remark							
	Above 1GHz	54.00		Average Value							
Test Procedure:		<ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 									
Test setup:											
Test Instruments:	Refer to section 5.8 for details										
Test mode:	Refer to section 5.3 for details										
Test results:	Passed										

802.11b

Test channel: Lowest channel

Test Polarization: Horizontal



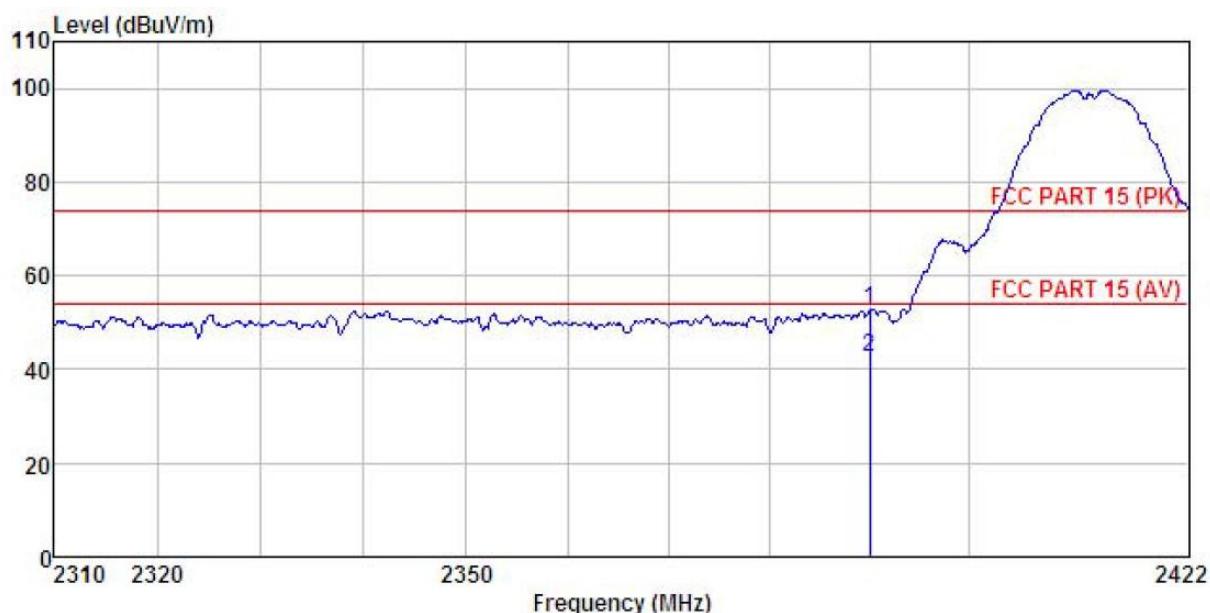
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT : Tablet
Model : T7A6
Test mode : B-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Zora
REMARK :

Freq	ReadAntenna		Cable Preamp		Limit	Over	Remark
	Level	Factor	Loss	Factor			
MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m	dB	
1	2390.000	21.49	25.45	4.69	0.00	51.63	74.00 -22.37 Peak
2	2390.000	12.65	25.45	4.69	0.00	42.79	54.00 -11.21 Average

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120 (1G18G) VERTICAL
 EUT : Tablet
 Model : T7A6
 Test mode : B-L mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Zora
 REMARK :

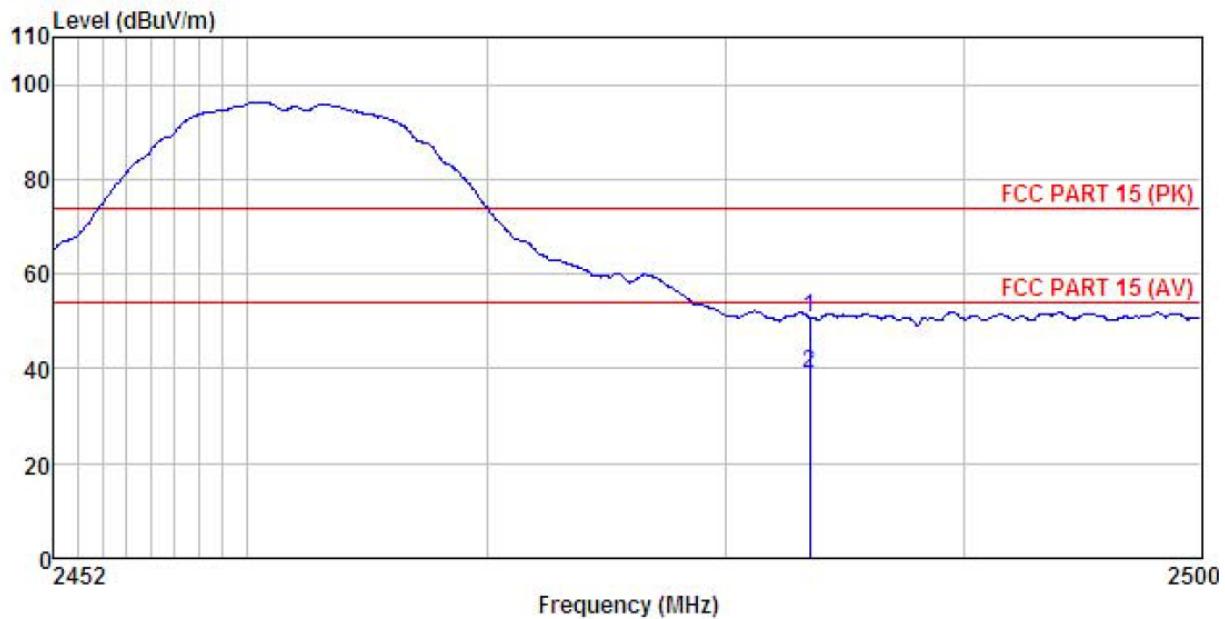
	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	22.51	25.45	4.69	0.00	52.65	74.00	-21.35 Peak
2	2390.000	12.37	25.45	4.69	0.00	42.51	54.00	-11.49 Average

Remark:

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

Test channel: Highest channel

Test Polarization: Horizontal



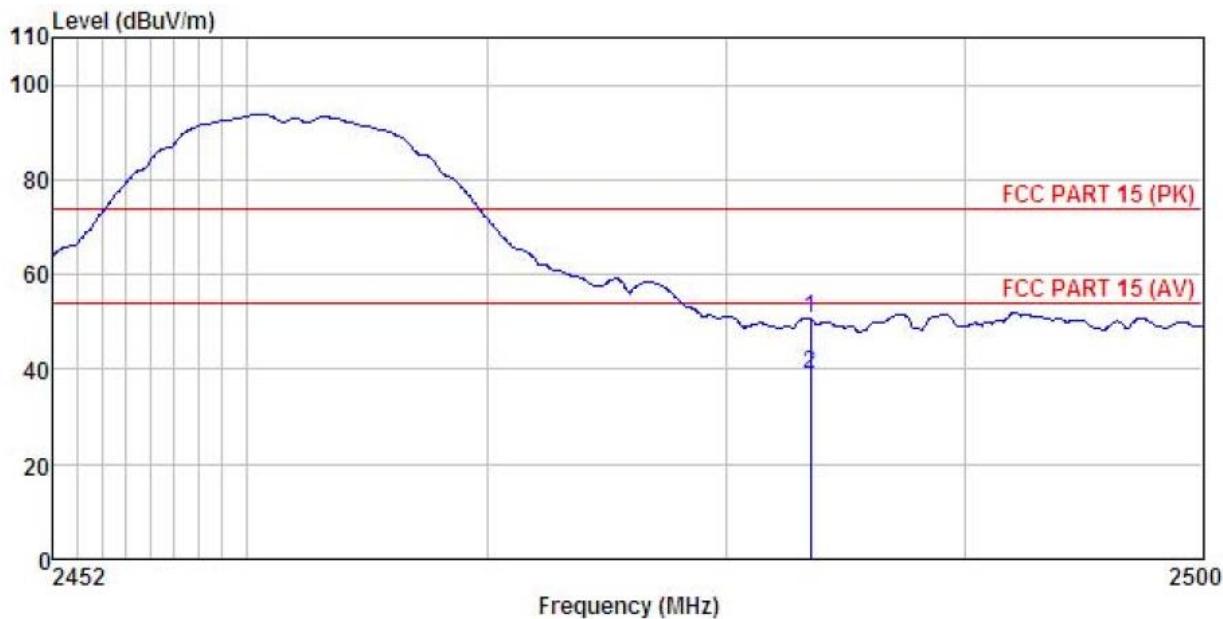
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : Tablet
 Model : T7A6
 Test mode : B-H mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: Zora
 REMARK :

Freq	ReadAntenna		Cable Preamp		Limit Line	Over Limit	Remark
	Freq	Level Factor	Cable Loss	Preamp Factor			
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1 2483.500	20.34	25.66	4.81	0.00	50.81	74.00	-23.19 Peak
2 2483.500	8.65	25.66	4.81	0.00	39.12	54.00	-14.88 Average

Remark:

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.

Test Polarization: Vertical



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : Tablet
Model : T7A6
Test mode : B-H mode
Power Rating : AC 120W/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss Factor	Level	Line	Limit Remark
	MHz	dBuV	dB/m	dB	dBuV/m	dBuV/m
1	2483.500	20.07	25.66	4.81	0.00	50.54 74.00 -23.46 Peak
2	2483.500	8.53	25.66	4.81	0.00	39.00 54.00 -15.00 Average

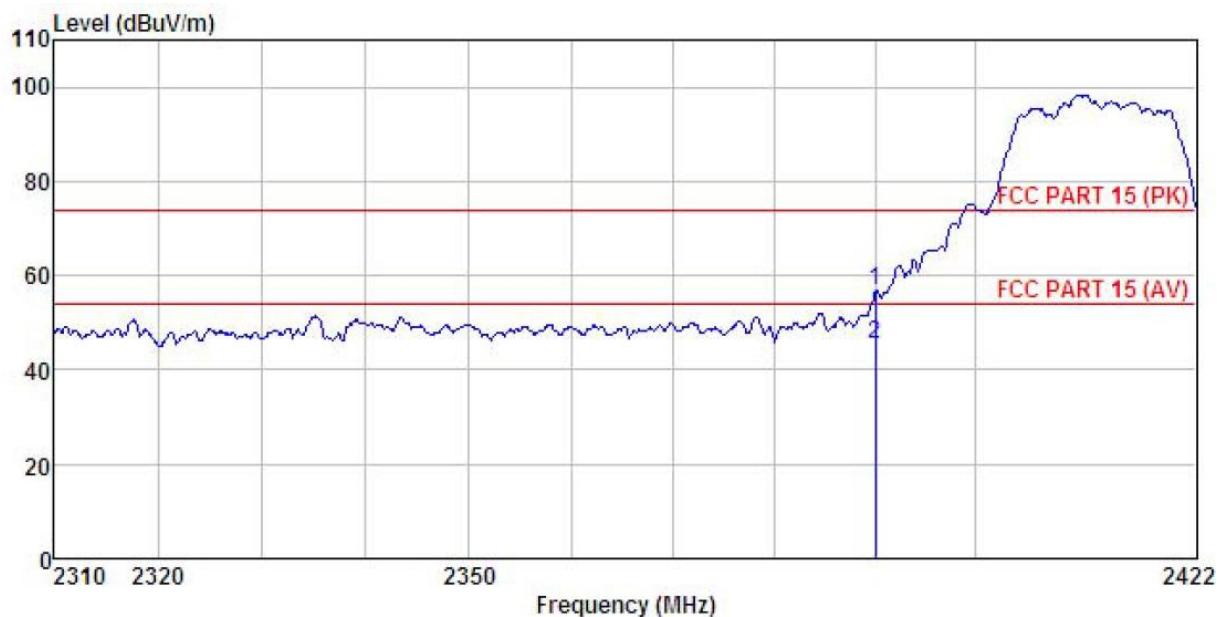
Remark:

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.

802.11g

Test channel: Lowest channel

Test Polarization: Horizontal



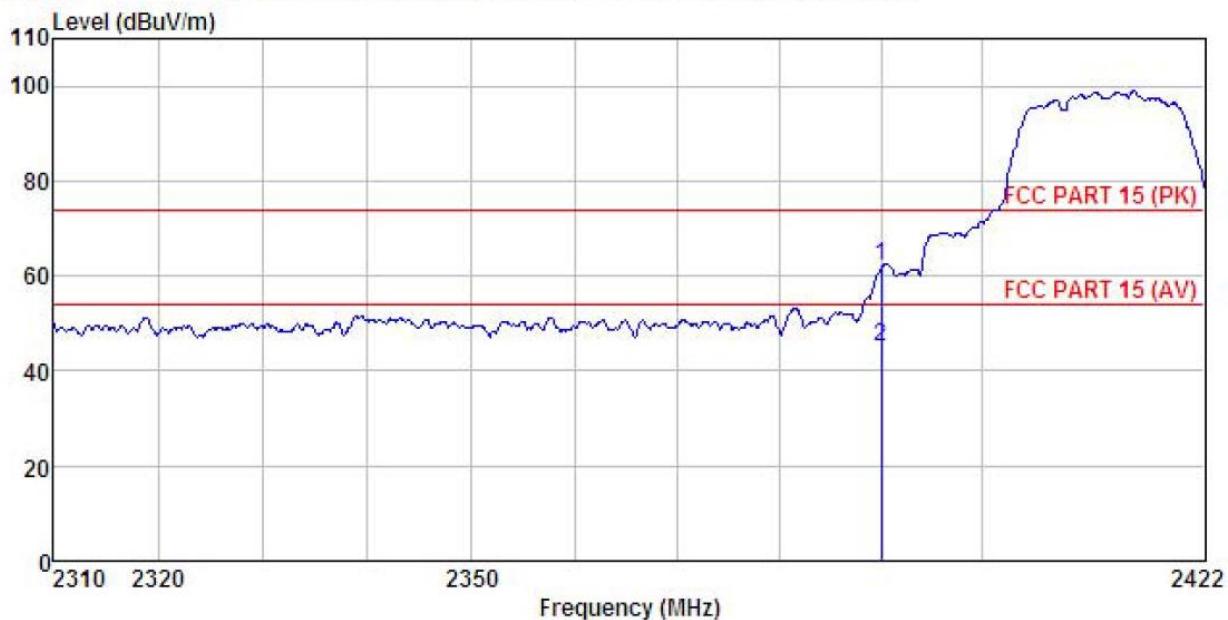
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
EUT : Tablet
Model : T7A6
Test mode : G-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora
REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level	Line	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	26.86	25.45	4.69	0.00	57.00	74.00 -17.00 Peak
2	2390.000	15.24	25.45	4.69	0.00	45.38	54.00 -8.62 Average

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : Tablet
Model : T7A6
Test mode : G-L mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora
REMARK :

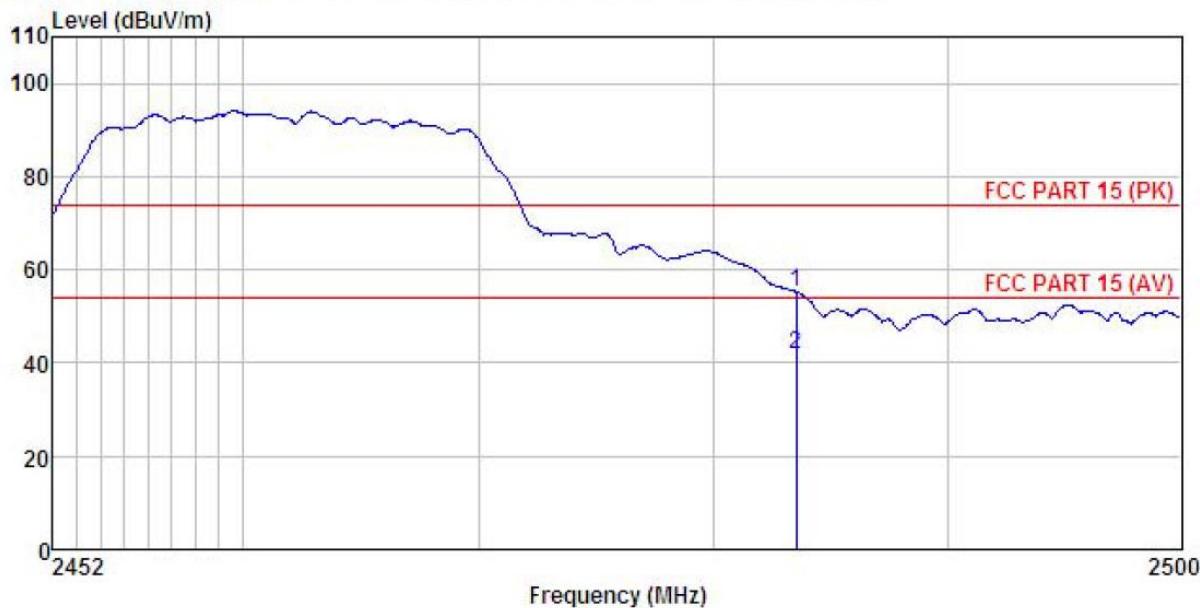
	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2390.000	31.87	25.45	4.69	0.00	62.01
2	2390.000	14.89	25.45	4.69	0.00	45.03
					74.00	-11.99
					54.00	-8.97
						Peak Average

Remark:

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

Test channel: Highest channel

Test Polarization: Horizontal



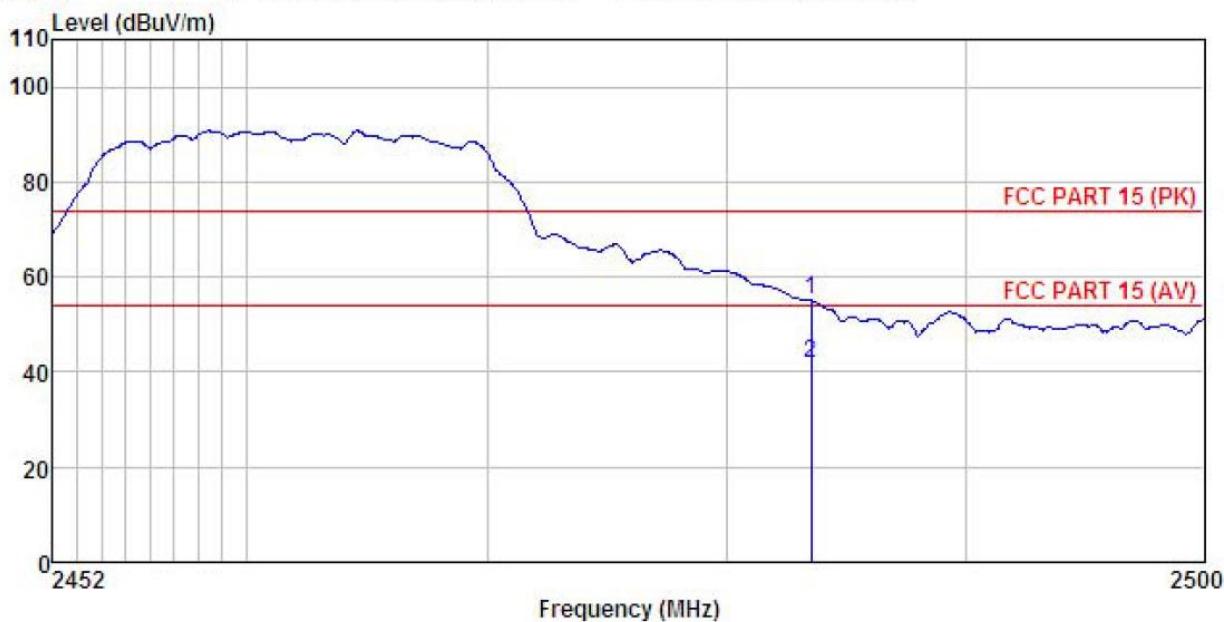
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : Tablet
 Model : T7A6
 Test mode : G-H mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: Zora
 REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	
1	2483.500	24.76	25.66	4.81	0.00	55.23	74.00 -18.77 Peak
2	2483.500	11.41	25.66	4.81	0.00	41.88	54.00 -12.12 Average

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : Tablet
Model : T7A6
Test mode : G-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: Zora
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	2483.500	24.54	25.66	4.81	0.00	55.01
2	2483.500	11.48	25.66	4.81	0.00	41.95
					74.00	-18.99
					54.00	-12.05
						Peak Average

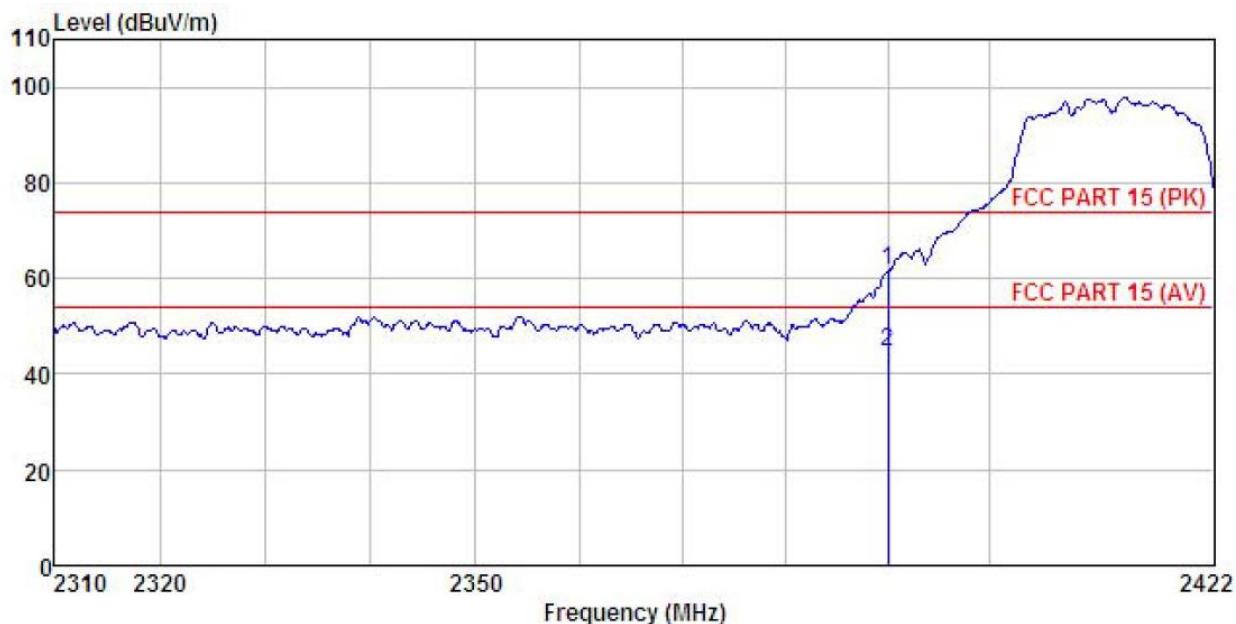
Remark:

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

802.11n (H20)

Test channel: Lowest channel

Test Polarization: Horizontal



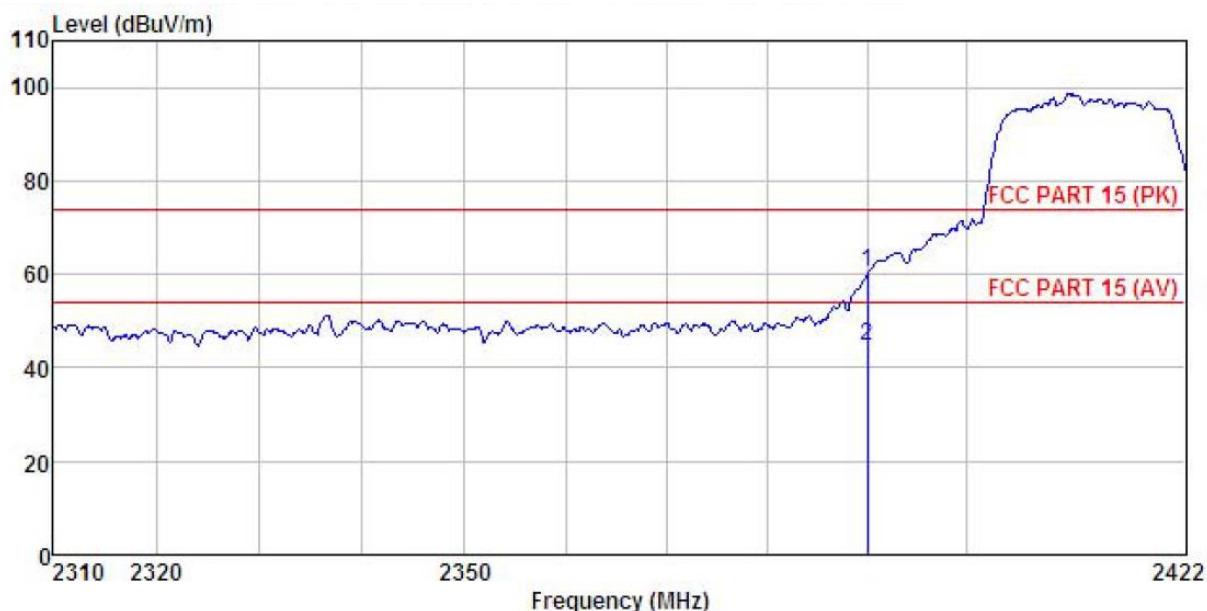
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : Tablet
 Model : T7A6
 Test mode : N20-L mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Zora
 REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	31.59	25.45	4.69	0.00	61.73	74.00	-12.27 Peak
2	2390.000	14.67	25.45	4.69	0.00	44.81	54.00	-9.19 Average

Remark:

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.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
 EUT : Tablet
 Model : T7A6
 Test mode : N20-L mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: Zora
 REMARK :

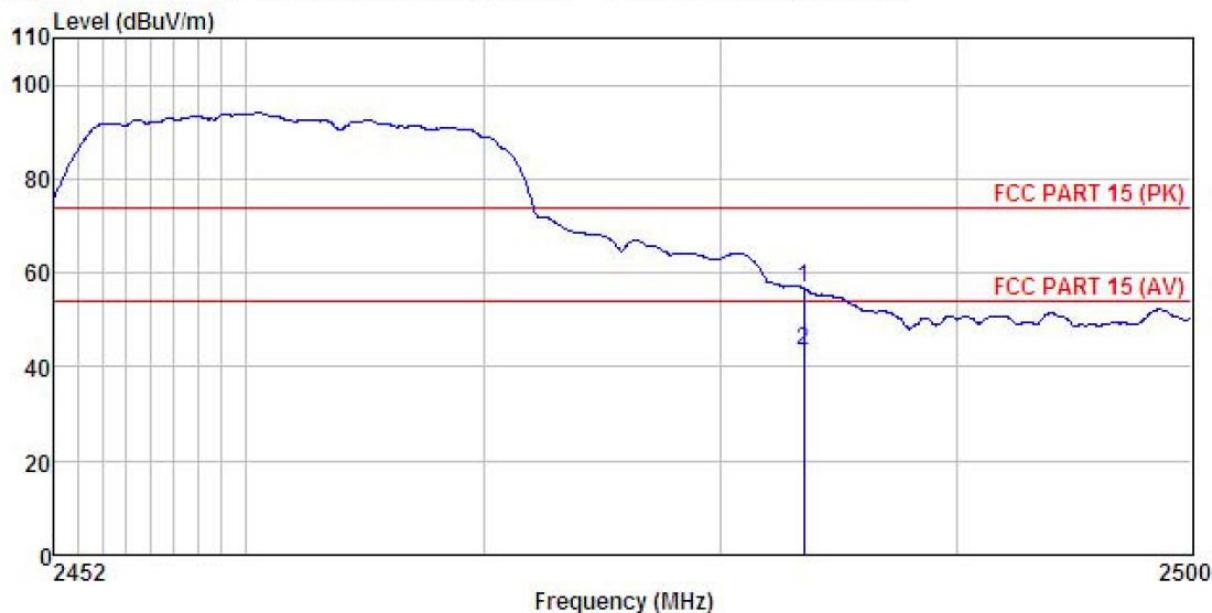
	ReadAntenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2390.000	30.22	25.45	4.69	0.00	60.36	74.00 -13.64 Peak
2	2390.000	14.52	25.45	4.69	0.00	44.66	54.00 -9.34 Average

Remark:

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.

Test channel: Highest channel

Test Polarization: Horizontal



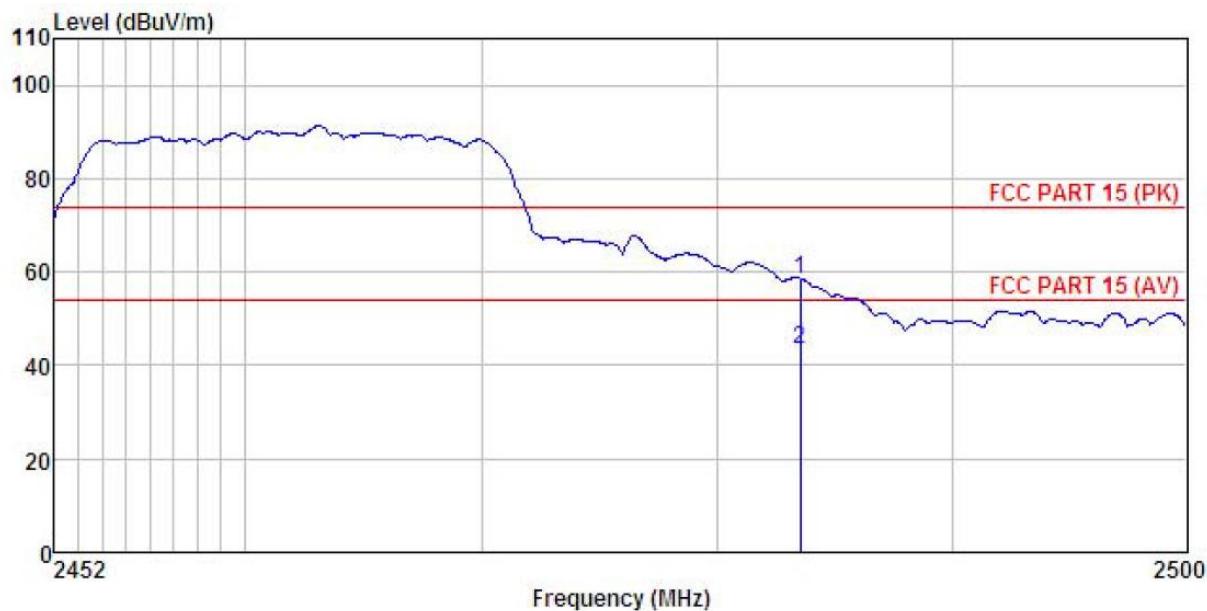
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : Tablet
 Model : T7A6
 Test mode : N20-H mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: Zora
 REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	2483.500	26.21	25.66	4.81	0.00	56.68	74.00 -17.32 Peak
2	2483.500	13.14	25.66	4.81	0.00	43.61	54.00 -10.39 Average

Remark:

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.

Test Polarization: Vertical



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL
EUT : Tablet
Model : T7A6
Test mode : N20-H mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Humi:55%
Test Engineer: Zora
REMARK :

	ReadAntenna	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Level	Line	Limit
MHz	dBuV	dB/m	dB	dB	dBuV/m	dB
1	2483.500	28.16	25.66	4.81	0.00	58.63
2	2483.500	13.02	25.66	4.81	0.00	43.49
					74.00	-15.37 Peak
					54.00	-10.51 Average

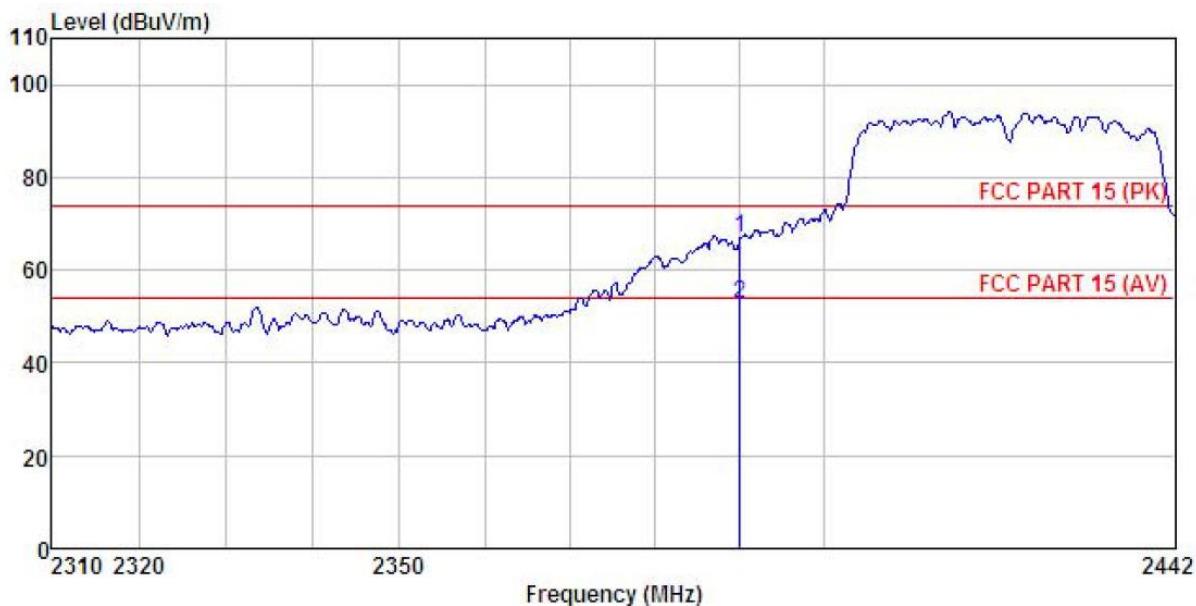
Remark:

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

802.11n (H40)

Test channel: Lowest channel

Test Polarization: Horizontal



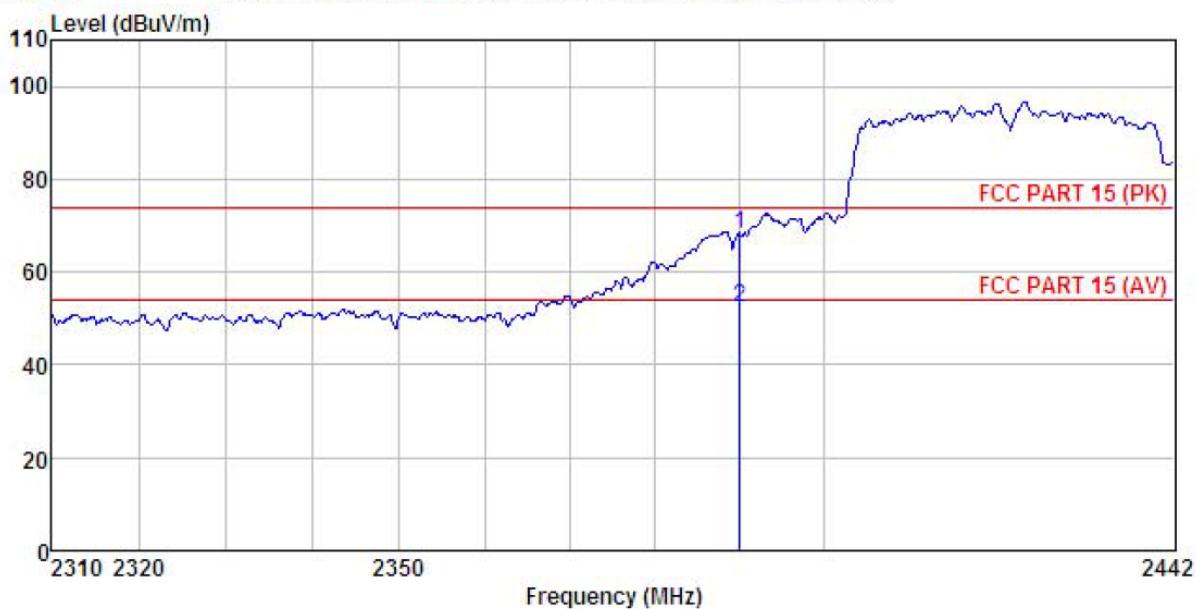
Site : 3m chamber
 Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) HORIZONTAL
 EUT : Tablet
 Model : T7A6
 Test mode : N40-L mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: Zora
 REMARK :

	Read	Antenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	2390.000	36.66	25.45	4.69	0.00	66.80	74.00	-7.20 Peak
2	2390.000	22.63	25.45	4.69	0.00	52.77	54.00	-1.23 Average

Remark:

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.

Test Polarization: Vertical



Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120(1G18G) VERTICAL

EUT : Tablet

Model : T7A6

Test mode : N40-L mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Humi:55%

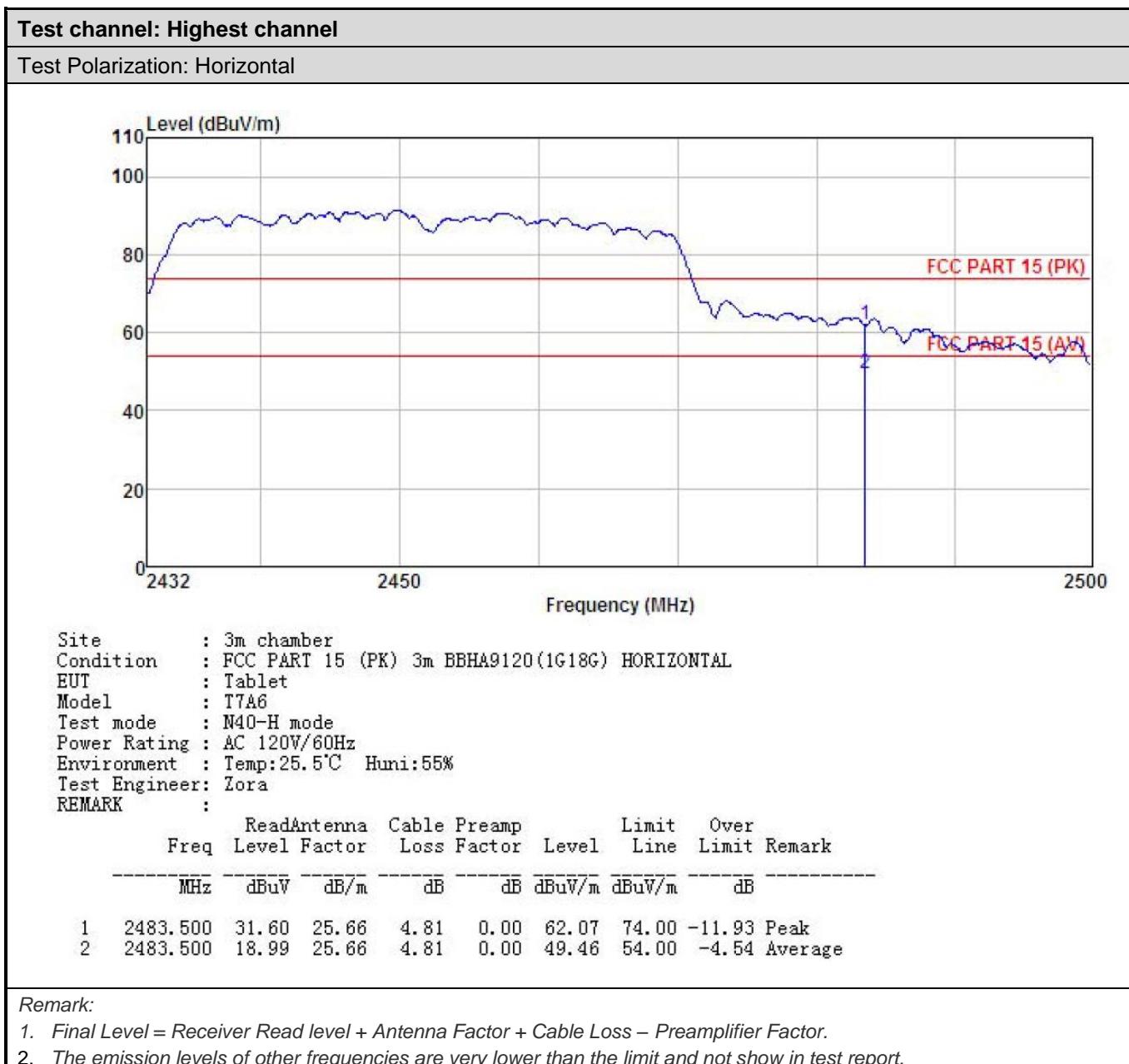
Test Engineer: Zora

REMARK :

Freq	Read	Antenna	Cable	Preamp	Limit	Over	
MHz	dBuV	Level Factor	Loss Factor	Level	Line	Line	Remark
1	2390.000	38.09	25.45	4.69	0.00	68.23	74.00 -5.77 Peak
2	2390.000	22.14	25.45	4.69	0.00	52.28	54.00 -1.72 Average

Remark:

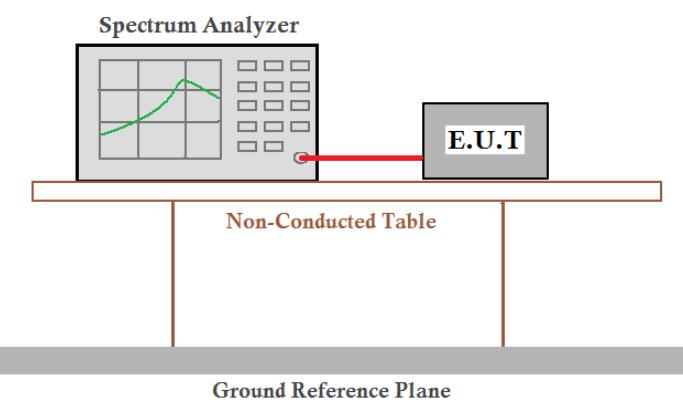
- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.



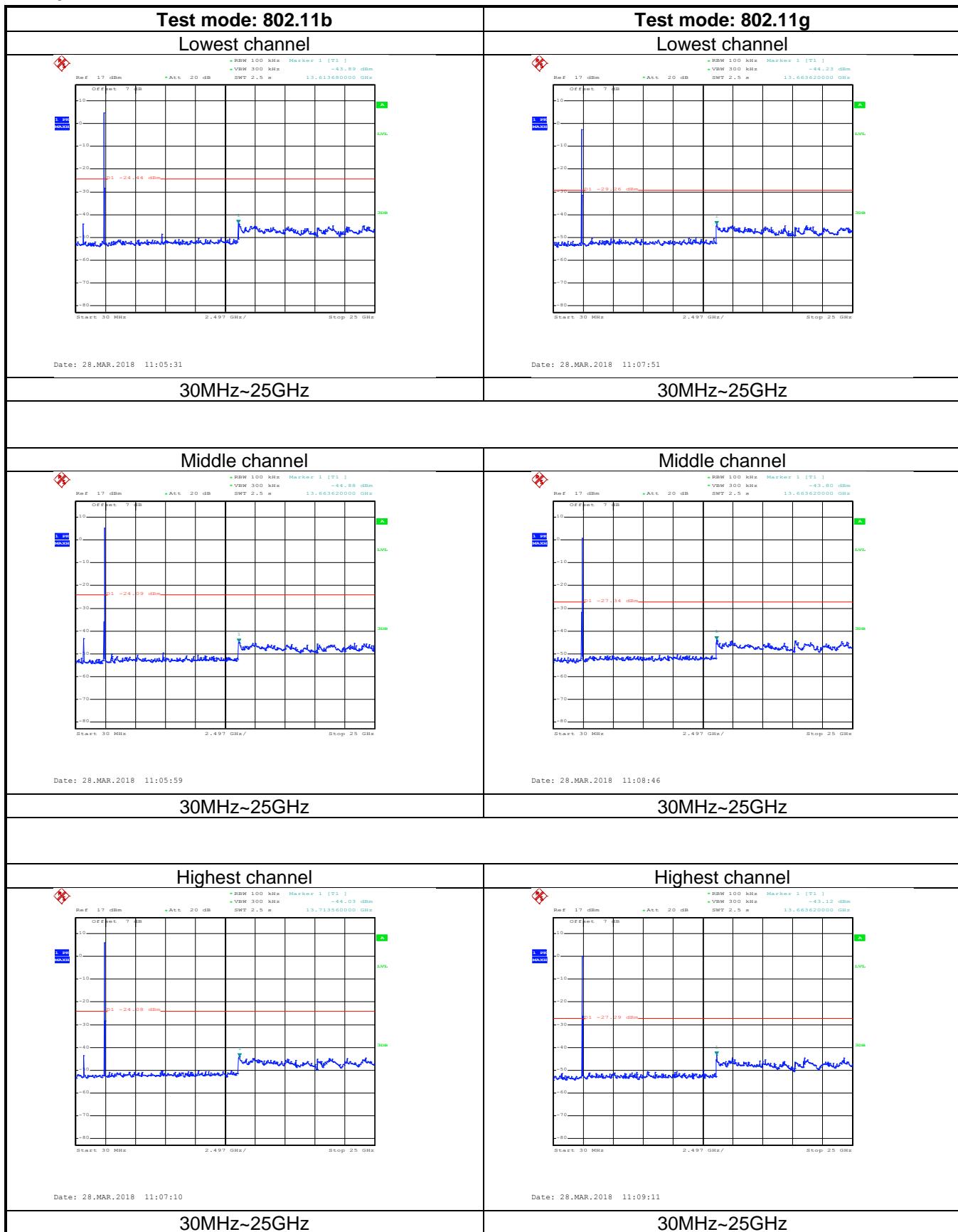


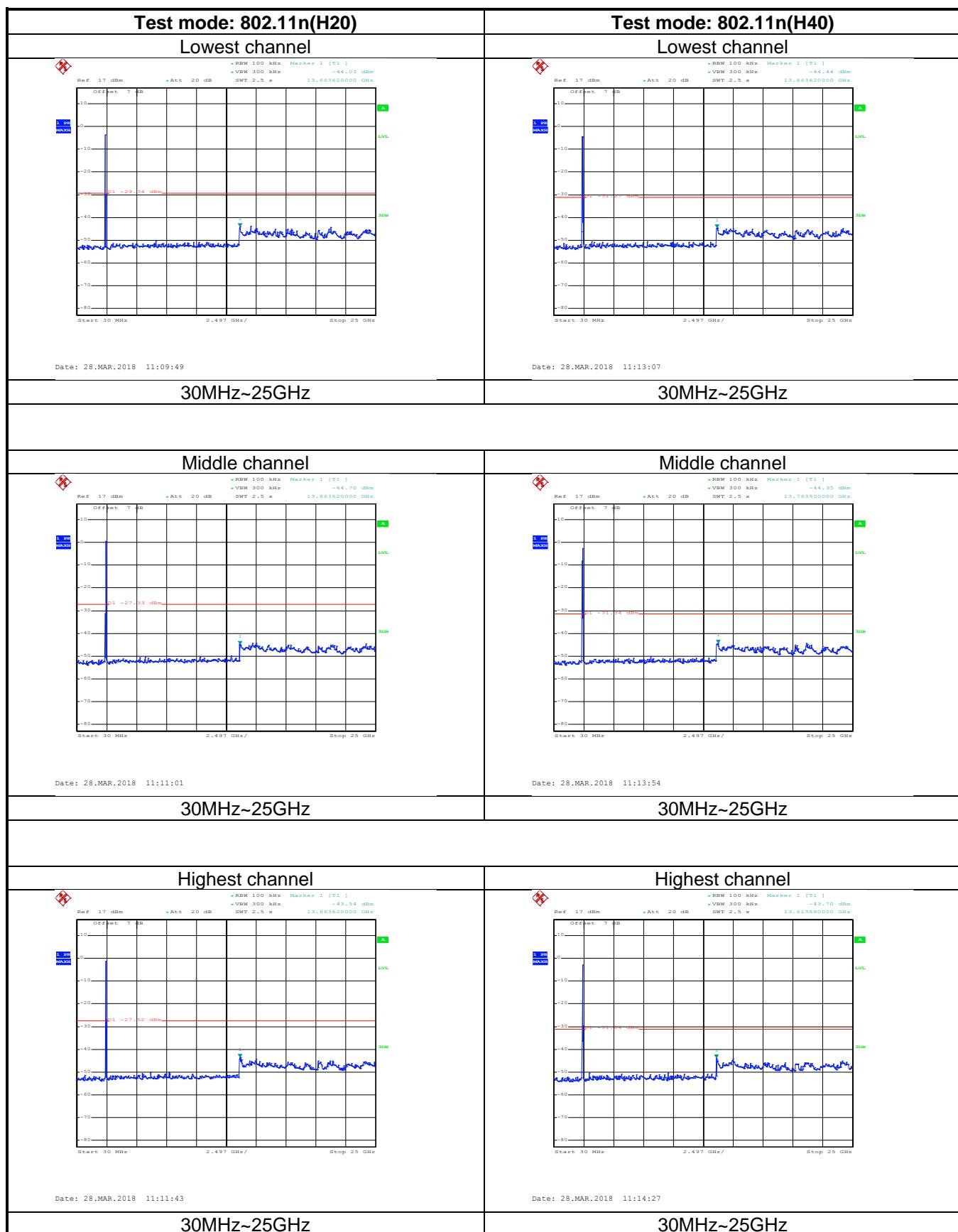
6.7 Spurious Emission

6.7.1 Conducted Emission Method

Test Requirement:	FCC Part 15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2013 and KDB 558074
Limit:	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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph(b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.
Test setup:	
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

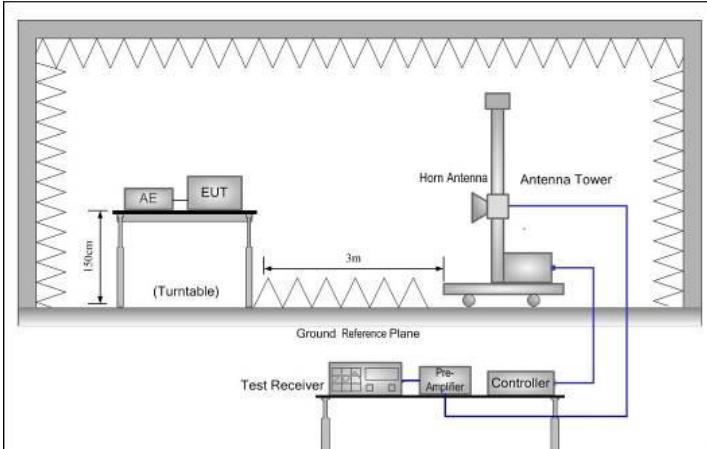
Test plot as follows:





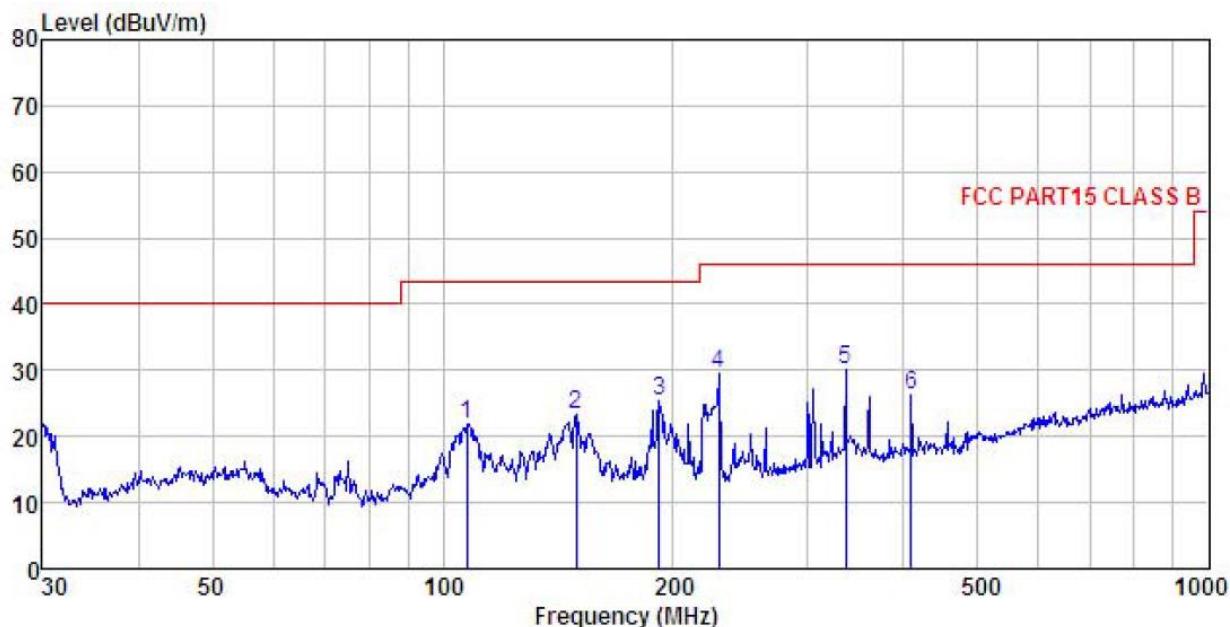
6.7.2 Radiated Emission Method

Test Requirement:	FCC Part 15 C Section 15.209 and 15.205								
Test Method:	ANSI C63.10:2013								
Test Frequency Range:	9kHz to 25GHz								
Test Distance:	3m								
Receiver setup:	Frequency	Detector	RBW	VBW	Remark				
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value				
	Above 1GHz	Peak	1MHz	3MHz	Peak Value				
Limit:	RMS	1MHz	3MHz	Average Value					
	Frequency	Limit (dBuV/m @3m)		Remark					
	30MHz-88MHz	40.0		Quasi-peak Value					
	88MHz-216MHz	43.5		Quasi-peak Value					
	216MHz-960MHz	46.0		Quasi-peak Value					
	960MHz-1GHz	54.0		Quasi-peak Value					
Test Procedure:	Above 1GHz	54.0		Average Value					
		74.0		Peak Value					
Test setup:	Below 1GHz								

	Above 1GHz 
Test Instruments:	Refer to section 5.8 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	<ol style="list-style-type: none">1. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis is the worst case.2. 9 kHz to 30MHz is too low, so only shows the data of above 30MHz in this report.

Measurement Data (worst case):**Below 1GHz:****Adapter(1)**

Test Polarization: Horizontal



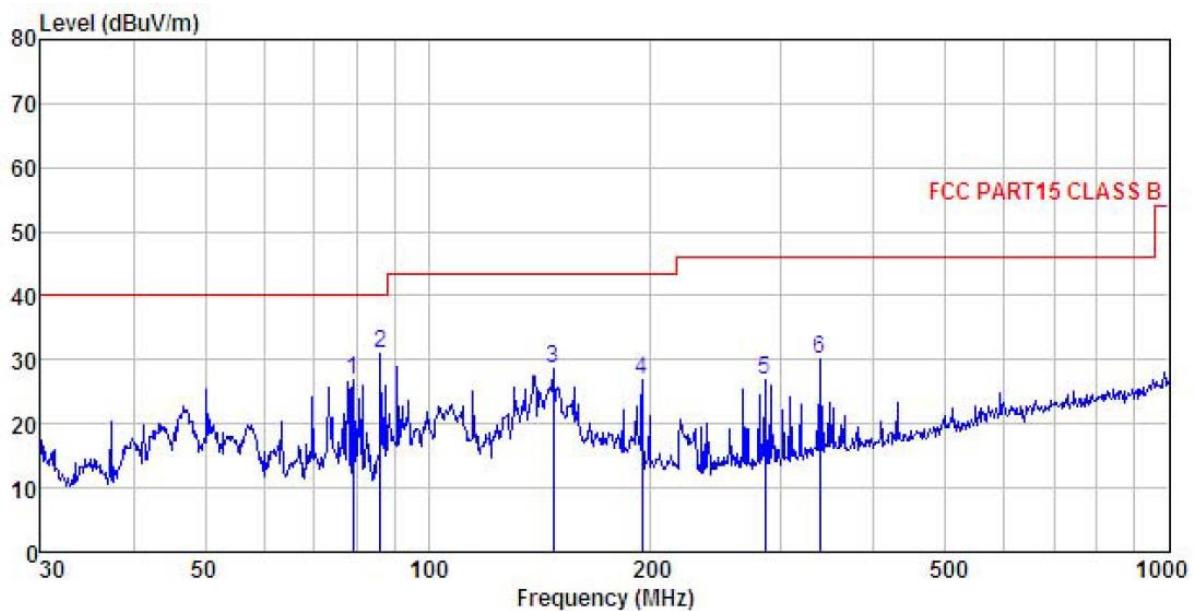
Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) HORIZONTAL
 EUT : Tablet
 Model : T7A6
 Test mode : Wifi mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: Zora
 REMARK : FJ-SW1260502000DU

Freq	ReadAntenna Level		Cable Factor	Preamp Loss	Limit	Over Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	107.510	37.24	12.08	2.02	29.47	21.87	43.50	-21.63 QP
2	149.486	41.40	8.50	2.51	29.22	23.19	43.50	-20.31 QP
3	191.745	40.82	10.58	2.81	28.89	25.32	43.50	-18.18 QP
4	229.293	43.82	11.44	2.83	28.65	29.44	46.00	-16.56 QP
5	336.035	41.40	14.10	3.05	28.53	30.02	46.00	-15.98 QP
6	408.946	36.96	15.05	3.10	28.80	26.31	46.00	-19.69 QP

Remark:

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.

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) VERTICAL
 EUT : Tablet
 Model : T7A6
 Test mode : Wifi mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%

Test Engineer: Zora
REMARK : FJ-SW1260502000DU

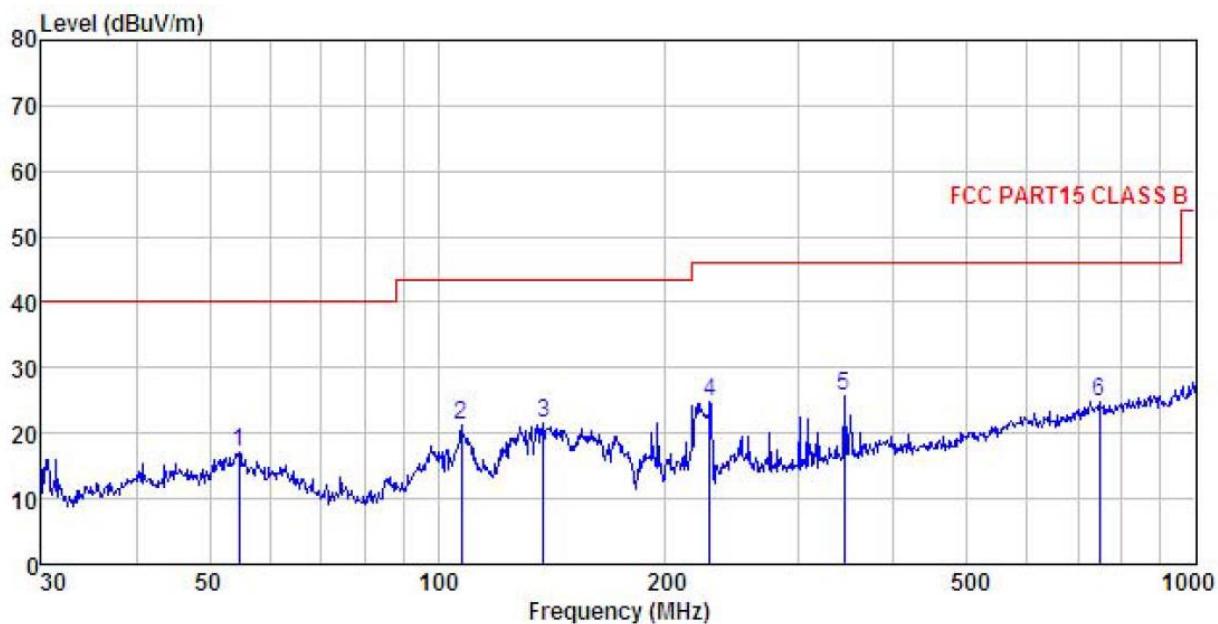
Freq	ReadAntenna		Cable	Preamp	Limit		Over	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	79.243	46.36	8.50	1.65	29.65	26.86	40.00	-13.14 QP
2	86.200	48.42	10.18	1.91	29.59	30.92	40.00	-9.08 QP
3	147.404	46.92	8.46	2.49	29.23	28.64	43.50	-14.86 QP
4	194.453	42.20	10.76	2.83	28.87	26.92	43.50	-16.58 QP
5	284.977	39.55	12.91	2.90	28.48	26.88	46.00	-19.12 QP
6	338.400	41.22	14.30	3.06	28.53	30.05	46.00	-15.95 QP

Remark:

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.

Adapter(2)

Test Polarization: Horizontal



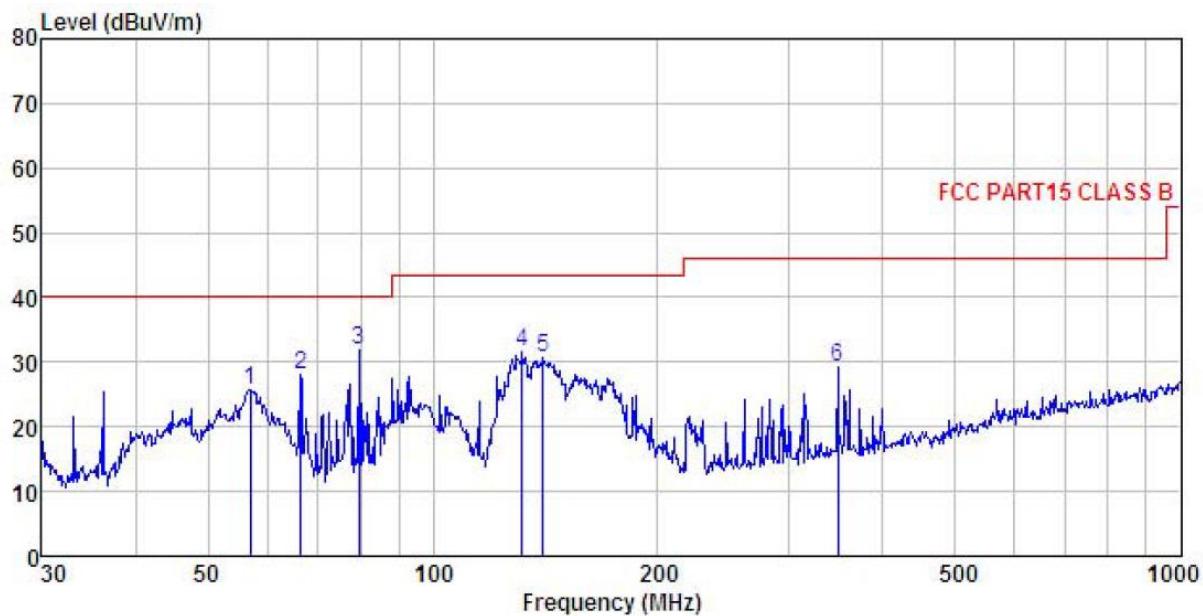
Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(30M2G) HORIZONTAL
 EUT : Tablet
 Model : T7A6
 Test mode : Wifi mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Humi:55%
 Test Engineer: Zora
 REMARK : TEKA012-0502000XX

Freq	Read	Antenna	Cable	Preampl	Limit	Over	Remark
	Level	Factor	Loss	Factor	Level	Line	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	54.643	32.01	13.44	1.34	29.80	16.99	40.00 -23.01 QP
2	107.510	36.52	12.08	2.02	29.47	21.15	43.50 -22.35 QP
3	137.903	40.13	8.36	2.37	29.28	21.58	43.50 -21.92 QP
4	228.490	39.25	11.44	2.84	28.66	24.87	46.00 -21.13 QP
5	344.386	36.41	14.60	3.08	28.55	25.54	46.00 -20.46 QP
6	747.483	29.41	19.52	4.35	28.49	24.79	46.00 -21.21 QP

Remark:

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

Test Polarization: Vertical



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163 (30M2G) VERTICAL
 EUT : Tablet
 Model : T7A6
 Test mode : Wifi mode
 Power Rating : AC 120V/60Hz
 Environment : Temp:25.5°C Huni:55%
 Test Engineer: Zora
 REMARK : TEKA012-0502000XX

	ReadAntenna	Cable	Preamp	Limit	Over		
Freq	Level	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	56.991	41.09	13.12	1.37	29.79	25.79	40.00 -14.21 QP
2	66.499	45.60	10.72	1.41	29.75	27.98	40.00 -12.02 QP
3	79.521	51.25	8.50	1.65	29.64	31.76	40.00 -8.24 QP
4	131.758	50.01	8.54	2.30	29.32	31.53	43.50 -11.97 QP
5	140.342	49.32	8.30	2.41	29.27	30.76	43.50 -12.74 QP
6	348.027	40.05	14.70	3.09	28.56	29.28	46.00 -16.72 QP

Remark:

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.

Above 1GHz

802.11b								
Test channel: Lowest channel								
Detector: Peak Value								
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
4824.00	48.09	30.94	6.81	41.82	44.02	74.00	-29.98	Vertical
4824.00	46.67	30.94	6.81	41.82	42.60	74.00	-31.40	Horizontal
Detector: Average Value								
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
4824.00	36.92	30.94	6.81	41.82	32.85	54.00	-21.15	Vertical
4824.00	35.93	30.94	6.81	41.82	31.86	54.00	-22.14	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
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
4874.00	48.59	31.20	6.85	41.84	44.80	74.00	-29.20	Vertical
4874.00	48.90	31.20	6.85	41.84	45.11	74.00	-28.89	Horizontal
Detector: Average Value								
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
4874.00	39.89	31.20	6.85	41.84	36.10	54.00	-17.90	Vertical
4874.00	38.80	31.20	6.85	41.84	35.01	54.00	-18.99	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
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
4924.00	46.42	31.46	6.89	41.86	42.91	74.00	-31.09	Vertical
4924.00	45.96	31.46	6.89	41.86	42.45	74.00	-31.55	Horizontal
Detector: Average Value								
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
4924.00	36.45	31.46	6.89	41.86	32.94	54.00	-21.06	Vertical
4924.00	34.11	31.46	6.89	41.86	30.60	54.00	-23.40	Horizontal

Remark:

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

802.11g								
Test channel: Lowest channel								
Detector: Peak Value								
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
4824.00	47.89	30.94	6.81	41.82	43.82	74.00	-30.18	Vertical
4824.00	46.52	30.94	6.81	41.82	42.45	74.00	-31.55	Horizontal
Detector: Average Value								
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
4824.00	36.23	30.94	6.81	41.82	32.16	54.00	-21.84	Vertical
4824.00	35.87	30.94	6.81	41.82	31.80	54.00	-22.20	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
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
4874.00	48.15	31.20	6.85	41.84	44.36	74.00	-29.64	Vertical
4874.00	47.63	31.20	6.85	41.84	43.84	74.00	-30.16	Horizontal
Detector: Average Value								
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
4874.00	38.15	31.20	6.85	41.84	34.36	54.00	-19.64	Vertical
4874.00	37.47	31.20	6.85	41.84	33.68	54.00	-20.32	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
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
4924.00	46.75	31.46	6.89	41.86	43.24	74.00	-30.76	Vertical
4924.00	46.39	31.46	6.89	41.86	42.88	74.00	-31.12	Horizontal
Detector: Average Value								
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
4924.00	36.11	31.46	6.89	41.86	32.60	54.00	-21.40	Vertical
4924.00	35.48	31.46	6.89	41.86	31.97	54.00	-22.03	Horizontal
<i>Remark:</i>								
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.								

802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
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
4824.00	47.52	36.06	6.81	41.82	48.57	74.00	-25.43	Vertical
4824.00	46.38	36.06	6.81	41.82	47.43	74.00	-26.57	Horizontal
Detector: Average Value								
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
4824.00	36.52	36.06	6.81	41.82	37.57	54.00	-16.43	Vertical
4824.00	36.10	36.06	6.81	41.82	37.15	54.00	-16.85	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
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
4874.00	47.55	36.32	6.85	41.84	48.88	74.00	-25.12	Vertical
4874.00	46.26	36.32	6.85	41.84	47.59	74.00	-26.41	Horizontal
Detector: Average Value								
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
4874.00	36.22	36.32	6.85	41.84	37.55	54.00	-16.45	Vertical
4874.00	35.85	36.32	6.85	41.84	37.18	54.00	-16.82	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
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
4924.00	46.77	36.58	6.89	41.86	48.38	74.00	-25.62	Vertical
4924.00	46.56	36.58	6.89	41.86	48.17	74.00	-25.83	Horizontal
Detector: Average Value								
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
4924.00	35.89	36.58	6.89	41.86	37.50	54.00	-16.50	Vertical
4924.00	35.75	36.58	6.89	41.86	37.36	54.00	-16.64	Horizontal
<i>Remark:</i>								
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.								

802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
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
4844.00	47.28	36.06	6.81	41.82	48.33	74.00	-25.67	Vertical
4844.00	46.56	36.06	6.81	41.82	47.61	74.00	-26.39	Horizontal
Detector: Average Value								
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
4844.00	36.23	36.06	6.81	41.82	37.28	54.00	-16.72	Vertical
4844.00	35.82	36.06	6.81	41.82	36.87	54.00	-17.13	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
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
4874.00	47.15	36.32	6.85	41.84	48.48	74.00	-25.52	Vertical
4874.00	46.72	36.32	6.85	41.84	48.05	74.00	-25.95	Horizontal
Detector: Average Value								
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
4874.00	36.32	36.32	6.85	41.84	37.65	54.00	-16.35	Vertical
4874.00	35.77	36.32	6.85	41.84	37.10	54.00	-16.90	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
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
4904.00	46.76	36.45	6.87	41.85	48.23	74.00	-25.77	Vertical
4904.00	46.69	36.45	6.87	41.85	48.16	74.00	-25.84	Horizontal
Detector: Average Value								
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
4904.00	35.88	36.45	6.87	41.85	37.35	54.00	-16.65	Vertical
4904.00	35.68	36.45	6.87	41.85	37.15	54.00	-16.85	Horizontal
<i>Remark:</i>								
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.								