

TEST REPORT

FCC ID: HD5-EDA703

Product: Tablet

Model No.: EDA70-3

Additional Model No.: -

Trade Mark: Honeywell

Report No.: TCT180313E005

Issued Date: March 15, 2018

Issued for:

**Honeywell International Inc
9680 Old Bailes Rd, Fort Mill, South Carolina, United States**

Issued By:

**Shenzhen Tongce Testing Lab.
1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District,
Shenzhen, Guangdong, China
TEL: +86-755-27673339
FAX: +86-755-27673332**

Note: This report shall not be reproduced except in full, without the written approval of Shenzhen Tongce Testing Lab.

This document may be altered or revised by Shenzhen Tongce Testing Lab. personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

TABLE OF CONTENTS

1. Test Certification 3

2. Test Result Summary 4

3. EUT Description..... 5

4. Genera Information..... 7

 4.1. TEST ENVIRONMENT AND MODE 7

 4.2. DESCRIPTION OF SUPPORT UNITS 8

5. Facilities and Accreditations 9

 5.1. FACILITIES 9

 5.2. LOCATION 9

 5.3. MEASUREMENT UNCERTAINTY 9

6. Test Results and Measurement Data 10

 6.1. ANTENNA REQUIREMENT 10

 6.2. CONDUCTED EMISSION 11

 6.3. MAXIMUM CONDUCTED OUTPUT POWER 15

 6.4. 6dB EMISSION BANDWIDTH 18

 6.5. 26dB BANDWIDTH AND 99% OCCUPIED BANDWIDTH..... 23

 6.6. POWER SPECTRAL DENSITY 28

 6.7. BAND EDGE..... 37

 6.8. SPURIOUS EMISSION..... 46

 6.9. FREQUENCY STABILITY MEASUREMENT..... 56

Appendix A: Photographs of Test Setup

Appendix B: Photographs of EUT

1. Test Certification

Product:	Tablet
Model No.:	EDA70-3
Additional Model No.:	-
Trade Mark:	Honeywell
Applicant:	Honeywell International Inc
Address:	9680 Old Bailes Rd, Fort Mill, South Carolina, United States
Manufacturer:	Honeywell International Inc
Address:	9680 Old Bailes Rd, Fort Mill, South Carolina, United States
Date of Test:	March 07,2018 – March 15, 2018
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2017 ANSI C63.10-2013 KDB789033 D02 General U-NII Test Procedures New Rules v02

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

Brews Xu

Date:

March 07, 2018

Brews Xu

Reviewed By:

Jpe Zhou

Jpe Zhou

Date:

March 15, 2018

Approved By:

Tomsin

Date:

March 15, 2018

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	PASS
Maximum Conducted Output Power	§15.407(a) §2.1046	PASS
6dB Emission Bandwidth	§15.407(a) §2.1049	PASS
26dB Emission Bandwidth & 99% Occupied Bandwidth	§15.407(a) §2.1049	PASS
Power Spectral Density	§15.407(a)	PASS
Band edge	§15.407(a)	PASS
Radiated Emission	§15.407(a) §2.1053	PASS
Frequency Stability	§15.407(g) §2.1055	PASS

Note:

1. PASS: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product:	Tablet
Model No.:	EDA70-3
Additional Model No.:	-
Trade Mark:	Honeywell
Operation Frequency:	Band I: 5180MHz-5240MHz; 5190MHz-5230MHz Band IV: 5745MHz-5825MHz; 5755MHz-5795MHz
Channel Bandwidth:	802.11a/n(HT20): 20MHz 802.11n(HT40): 40MHz
Modulation Technology:	Orthogonal Frequency Division Multiplexing(OFDM)
Modulation Type	BPSK, QPSK, 16QAM, 64QAM
Antenna Type:	1 Transmit, 1 Receive
Antenna Gain:	2.0 dBi
Power Supply:	DC 3.8V for internal battery
Adapter:	Input:100-240Va.c.,50/60Hz,0.30A Output: 5Vd.c.,2.0A

Operation Frequency each of channel

20MHz		40MHz	
Channel	Frequency	Channel	Frequency
36	5180	38	5190
40	5200	46	5230
44	5220	151	5755
48	5240	159	5795
149	5745		
153	5765		
157	5785		
161	5805		
165	5825		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n (HT20)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
36	Low	5180	149	Low	5745
44	Mid	5220	157	Mid	5785
48	High	5240	165	High	5825

For 802.11n (HT40)

Band I (5150 - 5250 MHz)			Band IV (5725 - 5850 MHz)		
Channel Number	Channel	Frequency (MHz)	Channel Number	Channel	Frequency (MHz)
38	Low	5190	151	Low	5755
46	High	5230	159	High	5795

4. Genera Information

4.1. Test environment and mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations(The value of duty cycle is 100%)
<p>The sample was placed 0.8m/1.5m for blow/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>	
<p>Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.</p>	
Mode	Data rate
802.11a	6 Mbps
802.11n(HT20)	MCS0
802.11n(HT40)	MCS0
Final Test Mode:	
Operation mode:	Keep the EUT in continuous transmitting with modulation

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

5. Facilities and Accreditations

5.1. Facilities

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

- FCC - Registration No.: 645098

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1B/F., Building 1, Yibaolai Industrial Park, Qiaotou, Fuyong, Baoan District, Shenzhen, Guangdong, China

TEL: +86-755-27673339

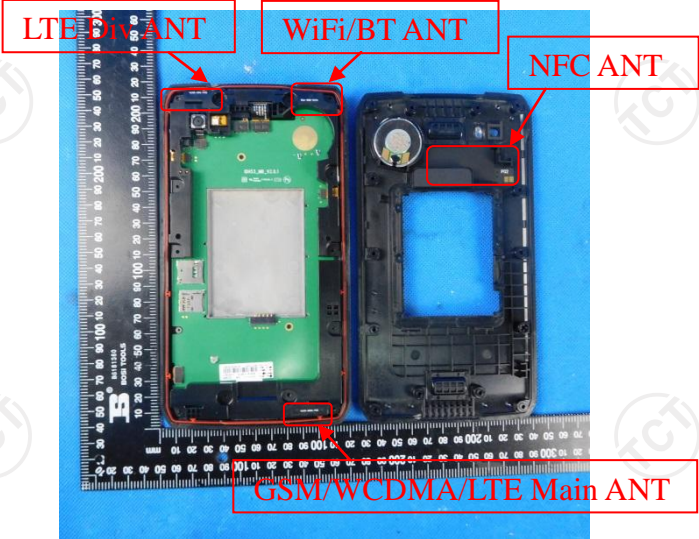
5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1G)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
<p>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.</p>	
E.U.T Antenna:	
<p>The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.</p>	
	

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207														
Test Method:	ANSI C63.10:2013														
Frequency Range:	150 kHz to 30 MHz														
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto														
Limits:	<table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBuV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table>	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
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													
Test Setup:	<p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>														
Test Mode:	Tx Mode														
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. 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). 3. 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 C63.10: 2013 on conducted measurement. 														
Test Result:	PASS														

6.2.2. Test Instruments

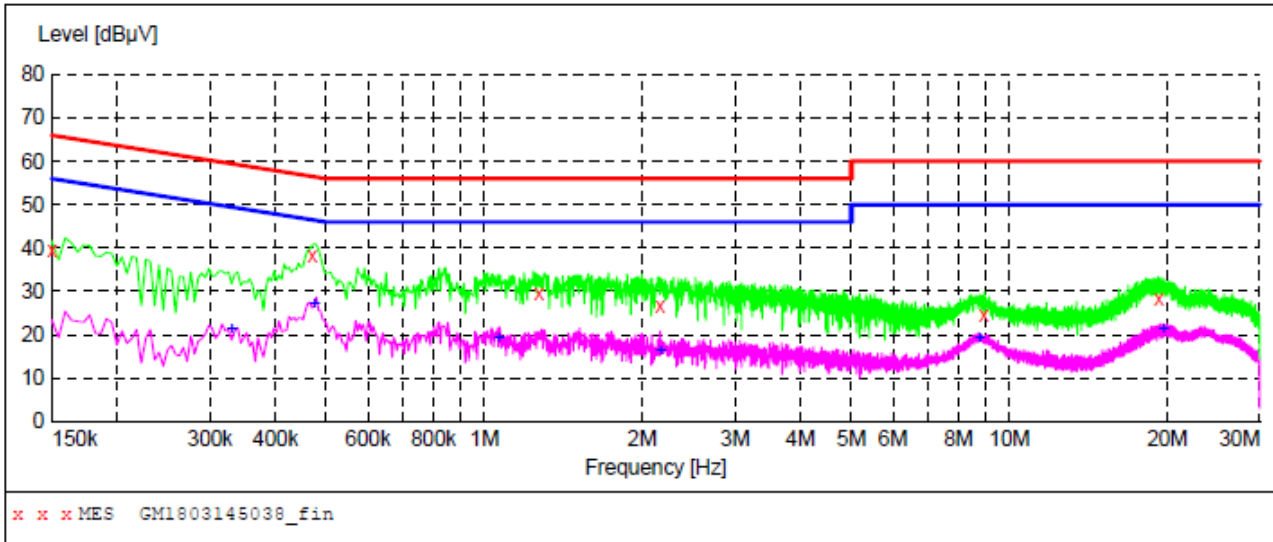
Conducted Emission Shielding Room Test Site (843)				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	R&S	ESPI	101401	Jun. 12, 2018
LISN	Schwarzbeck	NSLK 8126	8126453	Sep. 27, 2018
Coax cable (9KHz-30MHz)	TCT	CE-05	N/A	Sep. 27, 2018
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.2.3. Test data

Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line



MEASUREMENT RESULT: "GM1803145038_fin"

3/14/2018 2:49PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	39.60	10.0	66	26.4	QP	L1	GND
0.469500	38.30	9.9	57	18.2	QP	L1	GND
1.270500	29.50	10.1	56	26.5	QP	L1	GND
2.157000	26.70	10.1	56	29.3	QP	L1	GND
8.929500	24.60	10.4	60	35.4	QP	L1	GND
19.243500	28.30	10.6	60	31.7	QP	L1	GND

MEASUREMENT RESULT: "GM1803145038_fin2"

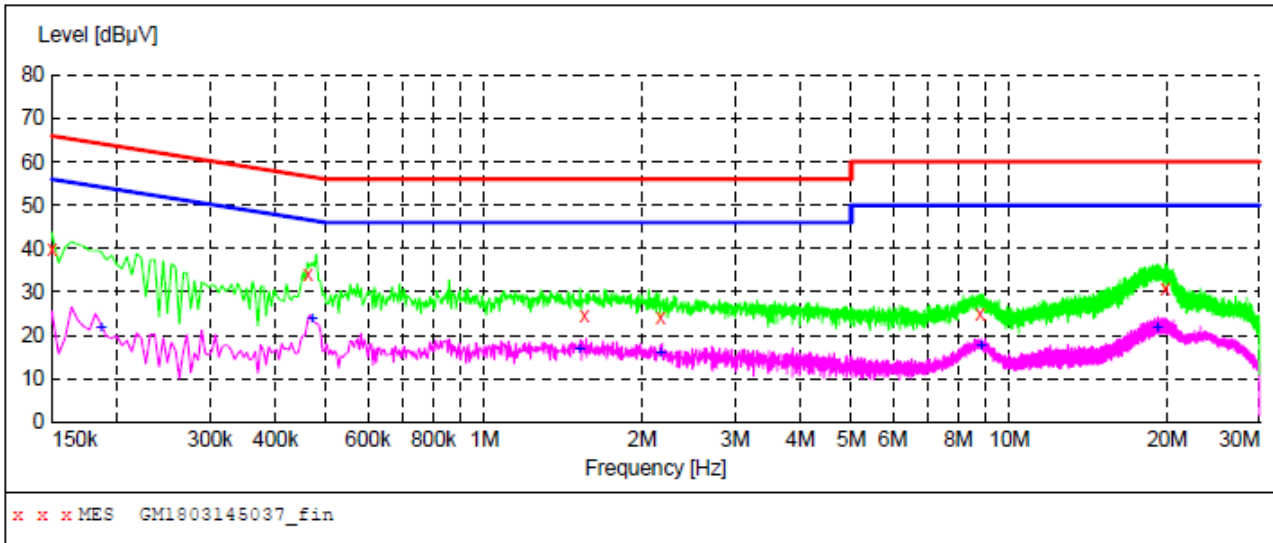
3/14/2018 2:49PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.330000	21.20	9.9	50	28.3	AV	L1	GND
0.474000	27.10	9.9	46	19.3	AV	L1	GND
1.063500	19.40	10.1	46	26.6	AV	L1	GND
2.161500	16.20	10.1	46	29.8	AV	L1	GND
8.767500	19.20	10.4	50	30.8	AV	L1	GND
19.648500	21.10	10.6	50	28.9	AV	L1	GND

Remark:

Transd = Cable lose+ PULSE LIMITER factor + ARTIFICIAL MAINS factor; Margin= Limit - Level

Conducted Emission on Neutral Terminal of the power line



MEASUREMENT RESULT: "GM1803145037_fin"

3/14/2018 2:46PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.150000	40.10	10.0	66	25.9	QP	N	GND
0.460500	34.00	9.9	57	22.7	QP	N	GND
1.549500	24.70	10.1	56	31.3	QP	N	GND
2.166000	24.20	10.1	56	31.8	QP	N	GND
8.785500	24.80	10.4	60	35.2	QP	N	GND
19.824000	30.70	10.6	60	29.3	QP	N	GND

MEASUREMENT RESULT: "GM1803145037_fin2"

3/14/2018 2:46PM

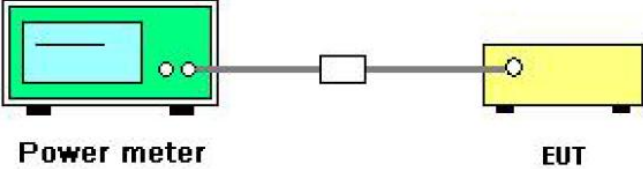
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.186000	21.80	10.0	54	32.4	AV	N	GND
0.469500	23.80	9.9	47	22.7	AV	N	GND
1.518000	16.90	10.1	46	29.1	AV	N	GND
2.166000	15.90	10.1	46	30.1	AV	N	GND
8.830500	17.60	10.4	50	32.4	AV	N	GND
19.176000	21.80	10.6	50	28.2	AV	N	GND

Remark:

Transd = Cable lose+ PULSE LIMITER factor + ARTIFICIAL MAINS factor; Margin= Limit - Level

6.3. Maximum Conducted Output Power

6.3.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407(a)& Part 2 J Section 2.1046						
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02 Section E						
Limit:	<table border="1"> <thead> <tr> <th>Frequency Band (MHz)</th> <th>Limit</th> </tr> </thead> <tbody> <tr> <td>5150-5250</td> <td>250mW for client devices</td> </tr> <tr> <td>5725-5850</td> <td>1 W</td> </tr> </tbody> </table>	Frequency Band (MHz)	Limit	5150-5250	250mW for client devices	5725-5850	1 W
	Frequency Band (MHz)	Limit					
	5150-5250	250mW for client devices					
	5725-5850	1 W					
<p>Note: For those cases where it is specified that the conducted output power be reduced by the amount in dB that the directional gain of the transmitting antenna exceeds 6 dBi, the output power effective limit shall be calculated as follows in Equation: $P_{out} = P_{Limit} - (\text{directional gain} - 6)$</p>							
Test Setup:	 <p>The diagram shows a green Power meter connected to a yellow EUT (Equipment Under Test) via a white attenuator. The Power meter is on the left and the EUT is on the right, connected by a cable.</p>						
Test Mode:	Transmitting mode with modulation						
Test Procedure:	<ol style="list-style-type: none"> 1. The testing follows the Measurement Procedure of KDB789033 D02 General UNII Test Procedures New Rules v02 Section E, 3, a 2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 5. Measure the conducted output power and record the results in the test report. 						
Test Result:	PASS						
Remark:	<p>Conducted output power= measurement power +10log(1/x) X is duty cycle=1, so 10log(1/1)=0 Conducted output power= measurement power</p>						

6.3.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
Power Meter	Agilent	N1911A	MY45101557	Sep. 27, 2018
Power Sensor	Agilent	N1922A	MY44124432	Sep. 27, 2018
RF Cable (9KHz-40GHz)	TCT	RE-03	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-03	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.3. Test Data

Configuration Band I (5150 - 5250 MHz)

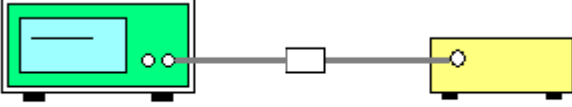
Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result
11a	CH36	14.83	24	PASS
11a	CH40	16.32	24	PASS
11a	CH48	15.10	24	PASS
11n(HT20)	CH36	13.91	24	PASS
11n(HT20)	CH40	15.21	24	PASS
11n(HT20)	CH48	13.79	24	PASS
11n(HT40)	CH38	10.99	24	PASS
11n(HT40)	CH46	12.26	24	PASS

Configuration Band IV (5725 - 5850 MHz)

Mode	Test channel	Maximum Conducted Output Power (dBm)	FCC Limit (dBm)	Result
11a	CH149	14.88	30	PASS
11a	CH157	15.44	30	PASS
11a	CH165	13.87	30	PASS
11n(HT20)	CH149	14.13	30	PASS
11n(HT20)	CH157	14.84	30	PASS
11n(HT20)	CH165	13.73	30	PASS
11n(HT40)	CH151	11.24	30	PASS
11n(HT40)	CH159	10.98	30	PASS

6.4. 6dB Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC CFR47 Part 15 Section 15.407(e)& Part 2 J Section 2.1049
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02 Section C
Limit:	>500kHz
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. KDB789033 D02 General UNII Test Procedures New Rules v02 Section C 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. 4. Measure and record the results in the test report.
Test Result:	PASS

6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-40GHz)	TCT	RE-03	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-03	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

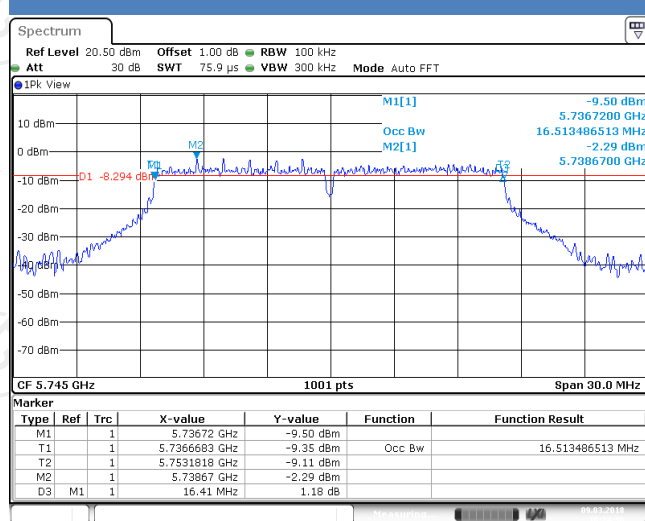
6.4.3. Test data

Band IV (5725 - 5850 MHz)					
Mode	Test channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
11a	CH149	5745	16.41	0.5	PASS
11a	CH157	5785	16.41	0.5	PASS
11a	CH161	5825	16.41	0.5	PASS
11n(HT20)	CH149	5745	17.64	0.5	PASS
11n(HT20)	CH157	5785	17.79	0.5	PASS
11n(HT20)	CH161	5825	17.67	0.5	PASS
11n(HT40)	CH151	5755	35.83	0.5	PASS
11n(HT40)	CH159	5795	35.57	0.5	PASS

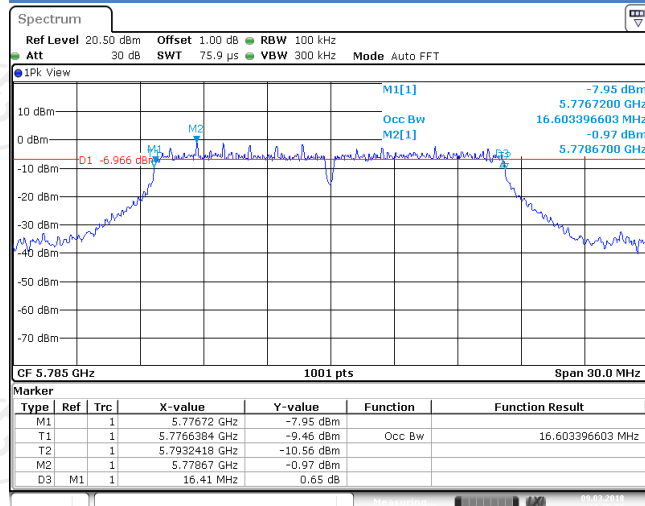
Test plots as follows:

Band IV (5725 – 5850 MHz)

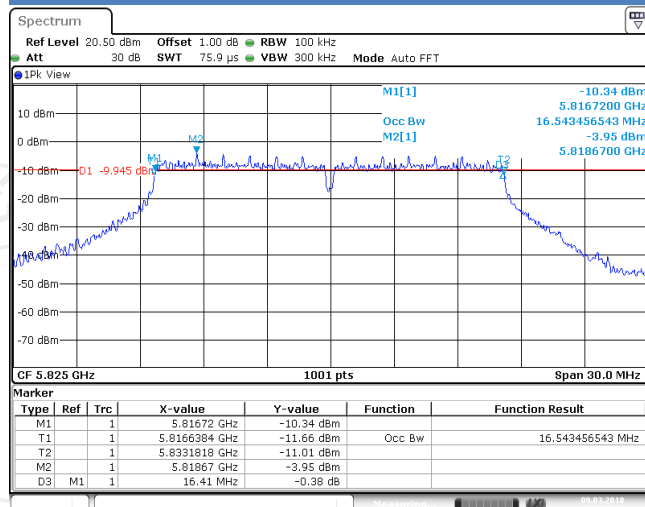
802.11a



Low

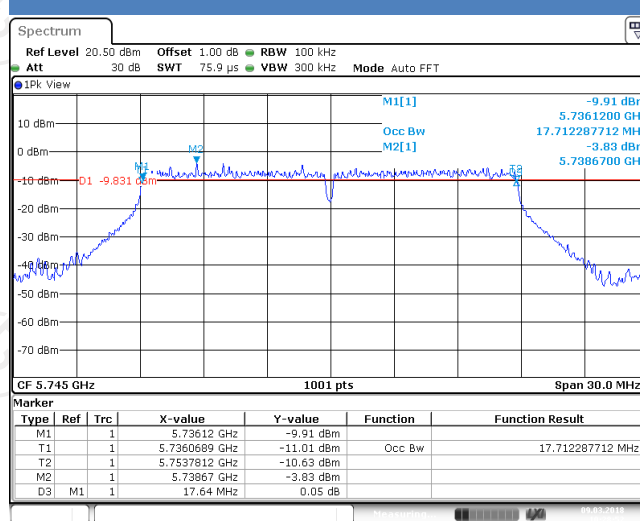


Mid

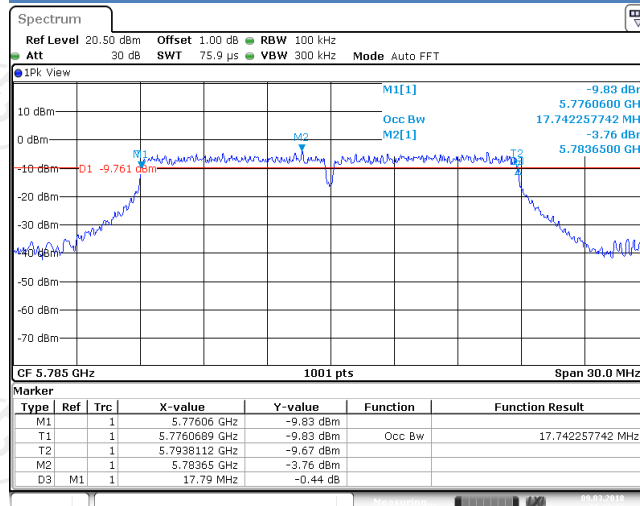


High

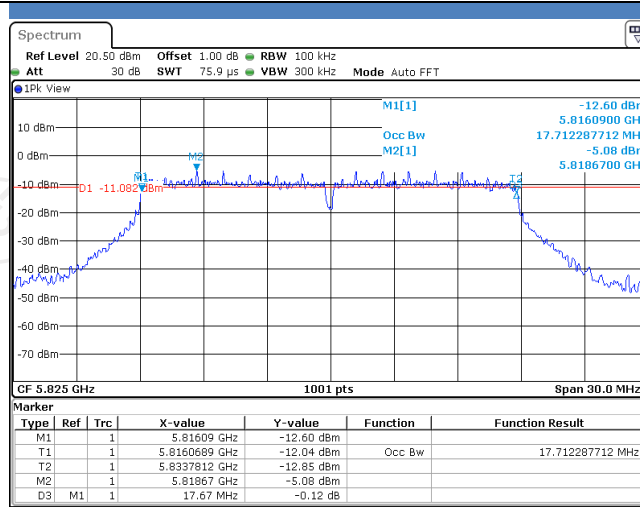
802.11n(HT20)



Low

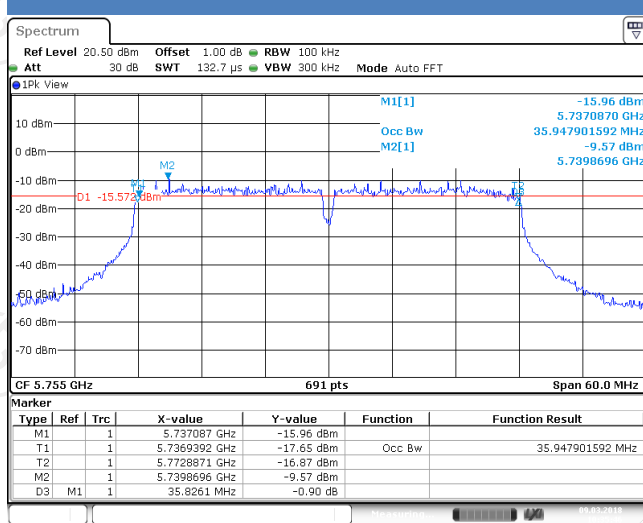


Mid

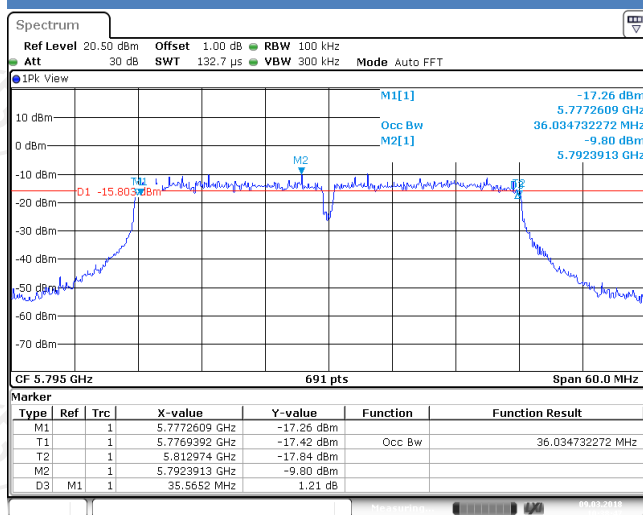


High

802.11n(HT40)



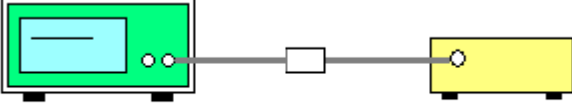
Low



High

6.5. 26dB Bandwidth and 99% Occupied Bandwidth

6.5.1. Test Specification

Test Requirement:	47 CFR Part 15C Section 15.407 (a)& Part 2 J Section 2.1049
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02 Section D
Limit:	No restriction limits
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. KDB789033 D02 General UNII Test Procedures New Rules v02 Section D 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. 4. Measure and record the results in the test report.
Test Result:	PASS

6.5.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
RF Cable (9KHz-26.5GHz)	TCT	RE-06	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

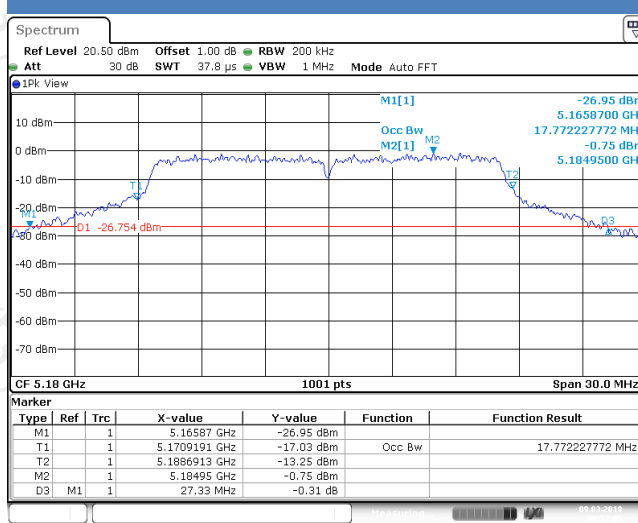
6.5.3. Test data**Band I**

Mode	Test channel	Frequency (MHz)	26 dB Bandwidth (MHz)	99% Bandwidth (MHz)
11a	CH36	5180	27.33	17.77
11a	CH44	5220	27.36	17.83
11a	CH48	5240	26.10	17.83
11n(HT20)	CH36	5180	26.70	18.28
11n(HT20)	CH44	5220	26.82	17.98
11n(HT20)	CH48	5240	26.10	17.35
11n(HT40)	CH38	5190	48.54	36.50
11n(HT40)	CH46	5230	49.44	36.50

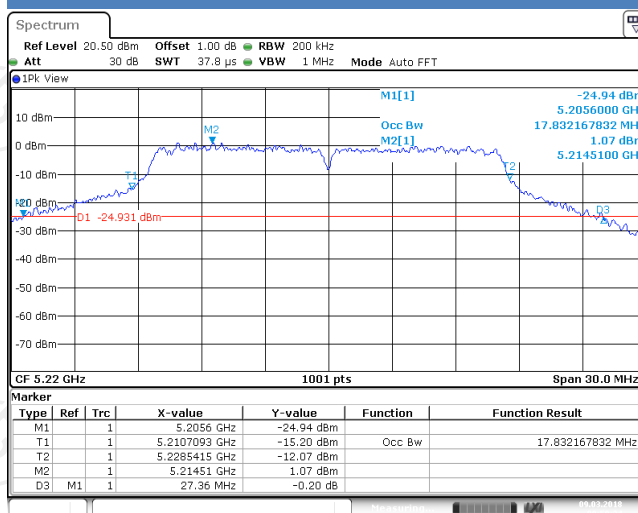
Test plots as follows:

Band I (5150 – 5250 MHz)

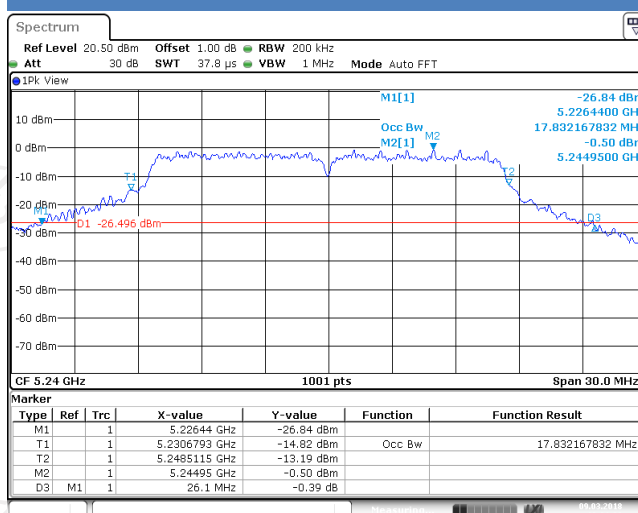
802.11a



Low

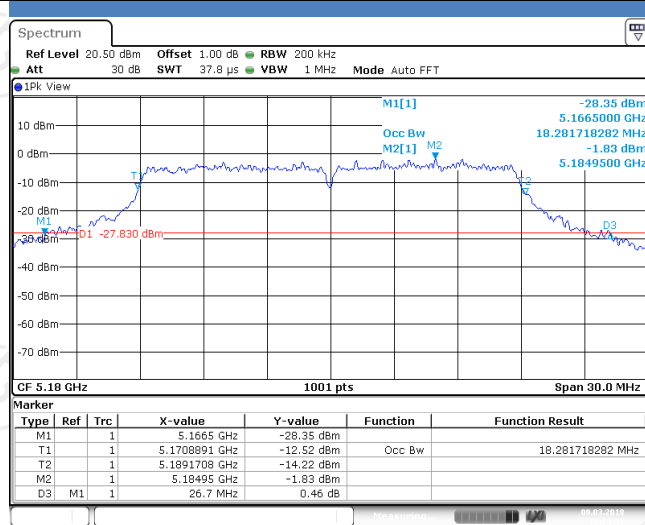


Mid

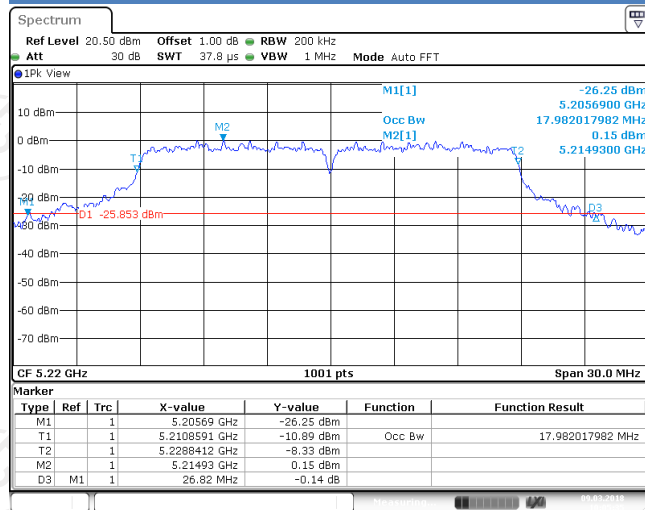


High

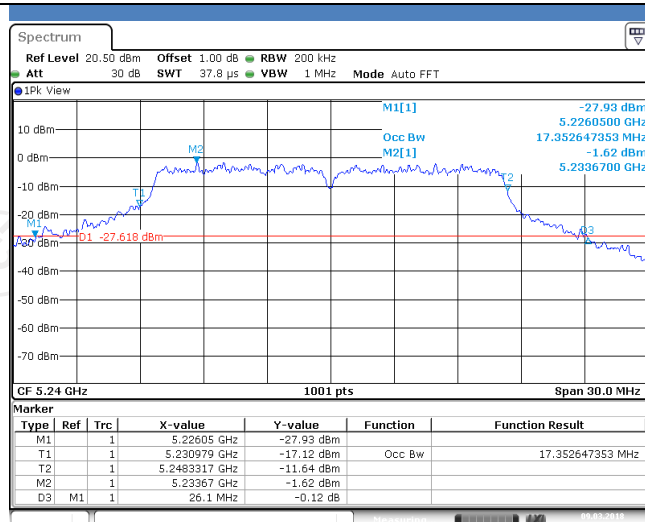
802.11n(HT20)



Low

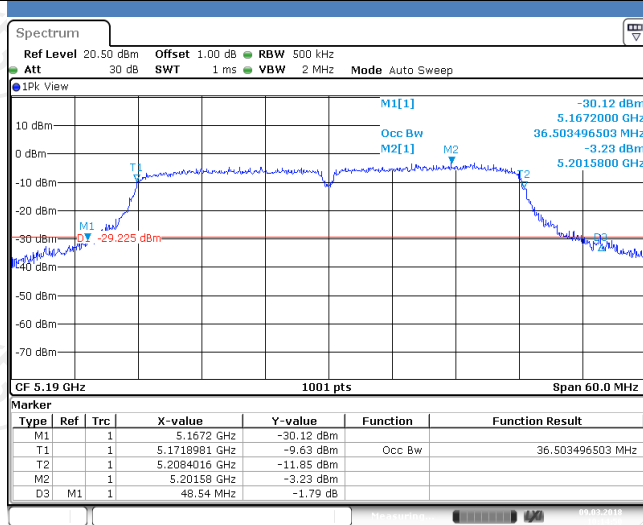


Mid

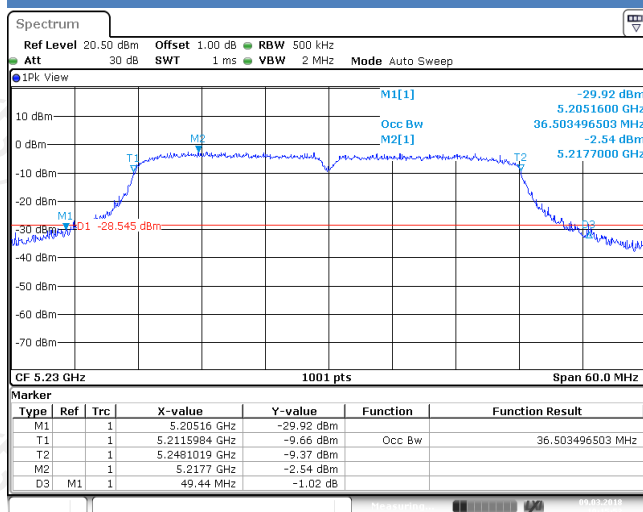


High

802.11n(HT40)



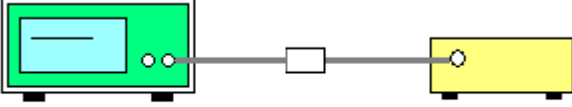
Low



High

6.6. Power Spectral Density

6.6.1. Test Specification

Test Requirement:	FCC Part15 E Section 15.407 (a)
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v02 Section F
Limit:	<p>≤11.00dBm/MHz for Band I 5150MHz-5250MHz ≤30.00dBm/500KHz for Band IV 5725MHz-5850MHz The e.i.r.p spectral density for Band I 5150MHz – 5250 MHz should not exceed 10dBm/MHz Note: For those cases where it is specified that the conducted output power be reduced by the amount in dB that the directional gain of the transmitting antenna exceeds 6 dBi, the PSD effective limit shall be calculated as follows in Equation: $PSD_{out} = PSD_{Limit} - (\text{directional gain} - 6)$</p>
Test Setup:	 <p style="text-align: center;">Spectrum Analyzer EUT</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. Set the spectrum analyzer or EMI receiver span to view the entire emission bandwidth. 1. Set RBW = 500 kHz/1 MHz, VBW ≥ 3*RBW, Sweep time = Auto, Detector = RMS. 2. Allow the sweeps to continue until the trace stabilizes. 3. Use the peak marker function to determine the maximum amplitude level. 4. The E.I.R.P spectral density used radiated test method. At a test site that has been validated using the procedures of ANSI C63.4 or the latest CISPR 16-1-4 for measurements above 1 GHz, so as to simulate a near free-space environment.
Test Result:	PASS

6.6.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCH WARZ	FSP40	100056	Sep. 27, 2018
RF Cable (9KHz-40GHz)	TCT	RE-03	N/A	Sep. 27, 2018
Antenna Connector	TCT	RFC-03	N/A	Sep. 27, 2018

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.6.3. Test data

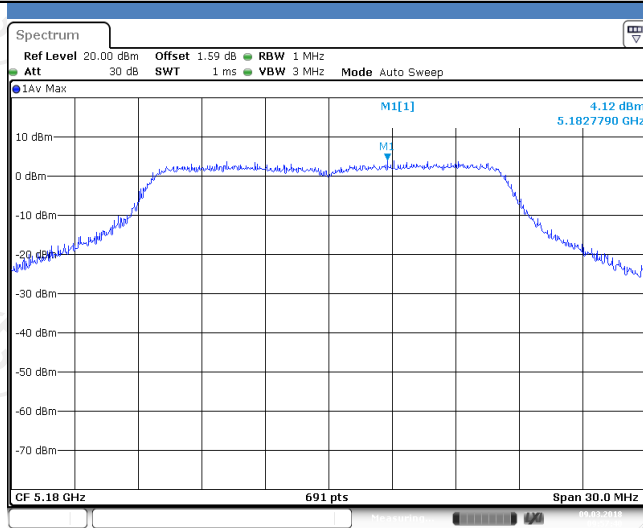
Configuration Band I (5150 - 5250 MHz)				
Mode	Test channel	Power Spectral Density	Limit (dBm/MHz)	Result
11a	CH36	4.12	11	PASS
11a	CH44	5.46	11	PASS
11a	CH48	4.26	11	PASS
11n(HT20)	CH36	2.45	11	PASS
11n(HT20)	CH44	4.59	11	PASS
11n(HT20)	CH48	3.56	11	PASS
11n(HT40)	CH38	-2.62	11	PASS
11n(HT40)	CH46	-1.40	11	PASS

Configuration Band IV (5725 - 5850 MHz)				
Mode	Test channel	Power Spectral Density	Limit (dBm/MHz)	Result
11a	CH149	2.76	30	PASS
11a	CH157	3.22	30	PASS
11a	CH161	1.10	30	PASS
11n(HT20)	CH149	1.70	30	PASS
11n(HT20)	CH157	2.87	30	PASS
11n(HT20)	CH161	-0.22	30	PASS
11n(HT40)	CH151	-3.58	30	PASS
11n(HT40)	CH159	-4.22	30	PASS

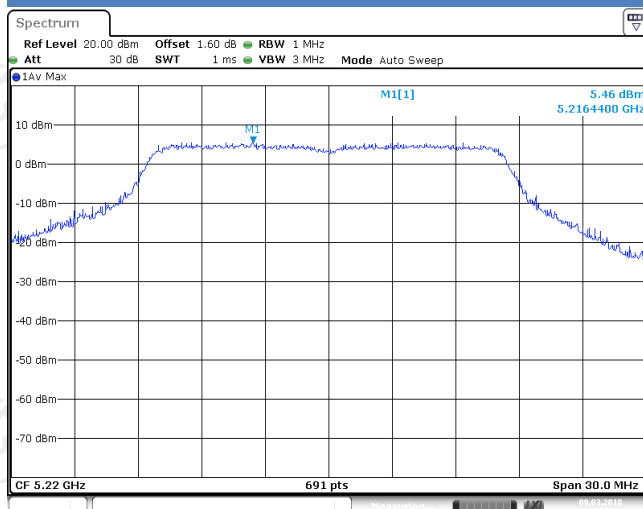
Test plots as follows:

Band I (5150 – 5250 MHz)

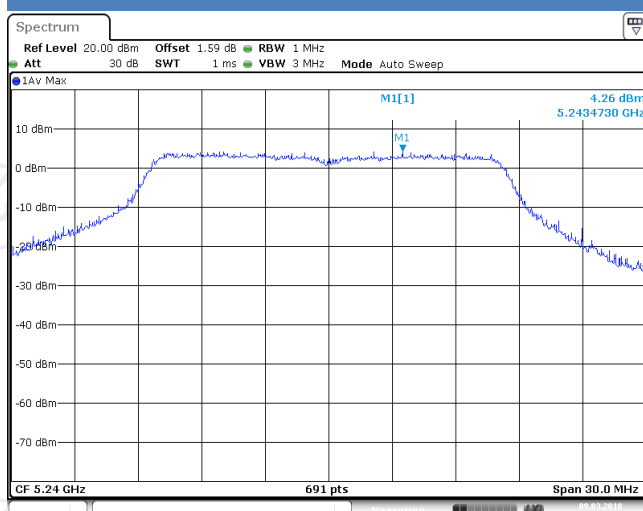
802.11a



Low

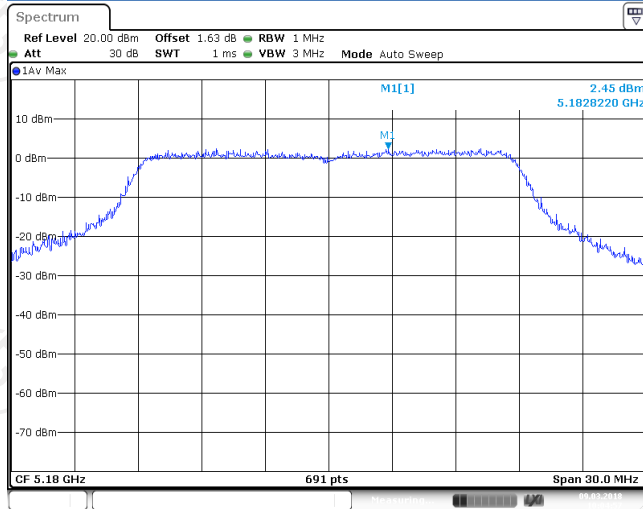


Mid

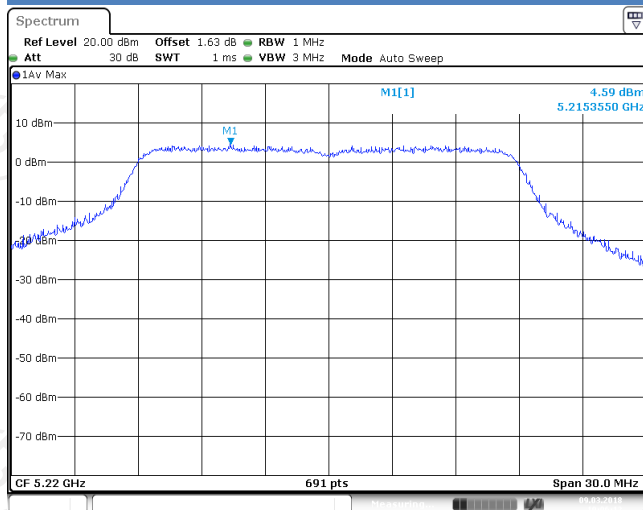


High

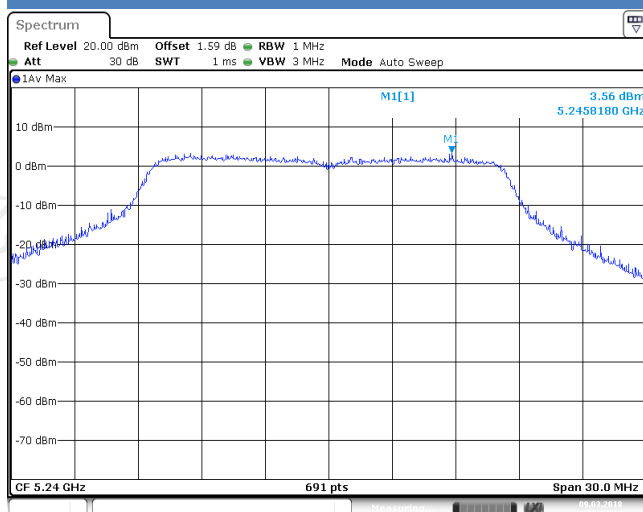
802.11n(HT20)



Low

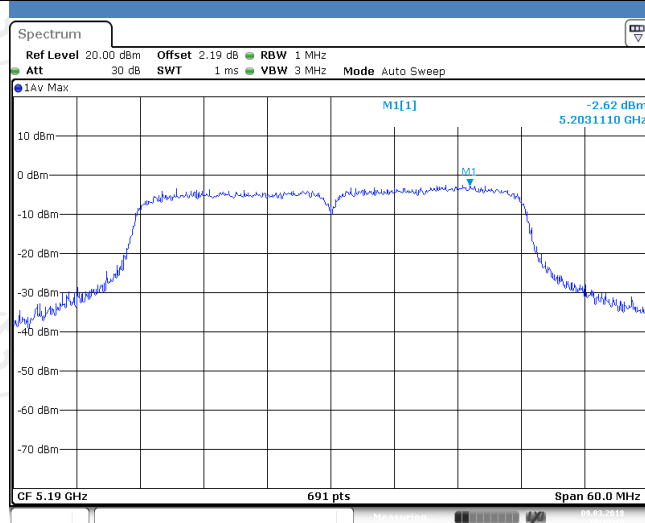


Mid

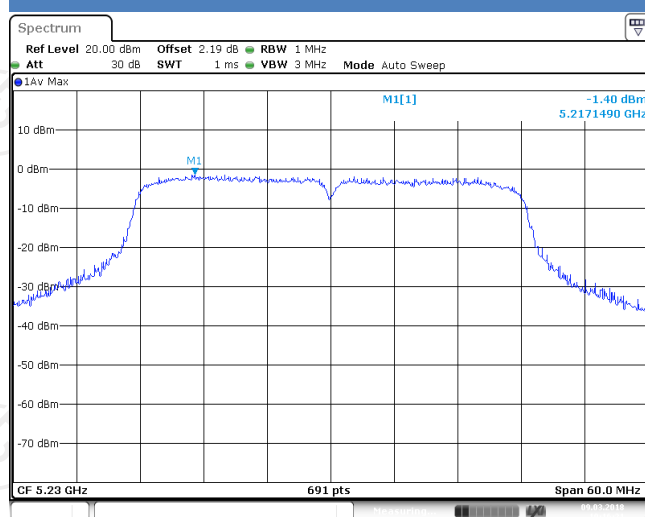


High

802.11n(HT40)



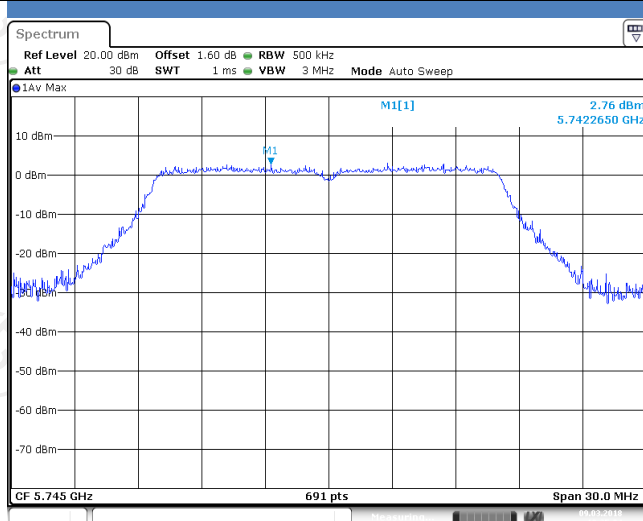
Low



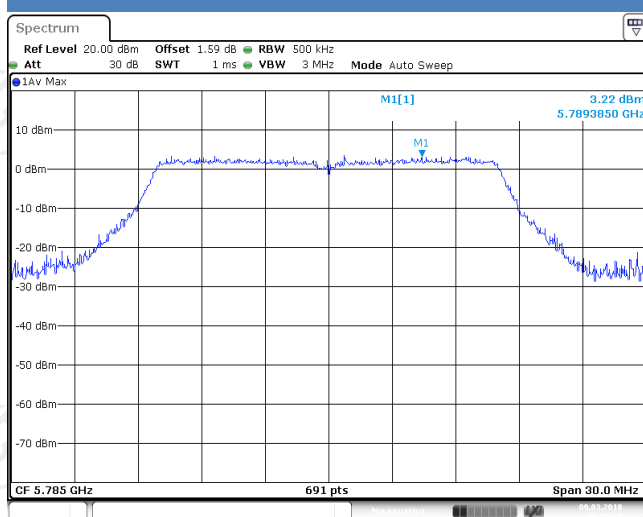
High

Band IV (5725 – 5850 MHz)

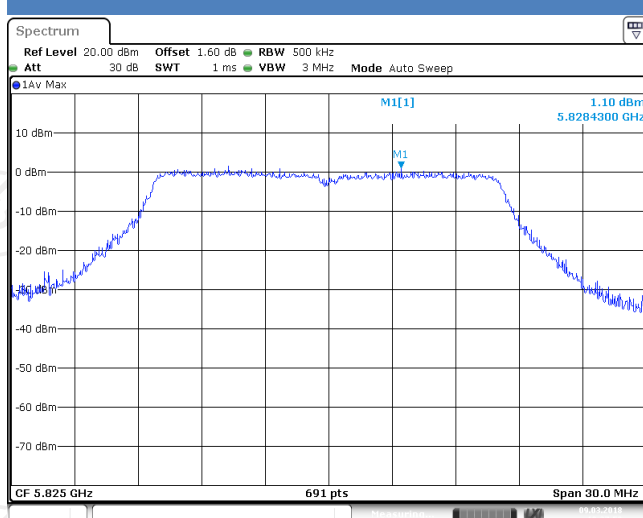
802.11a



Low

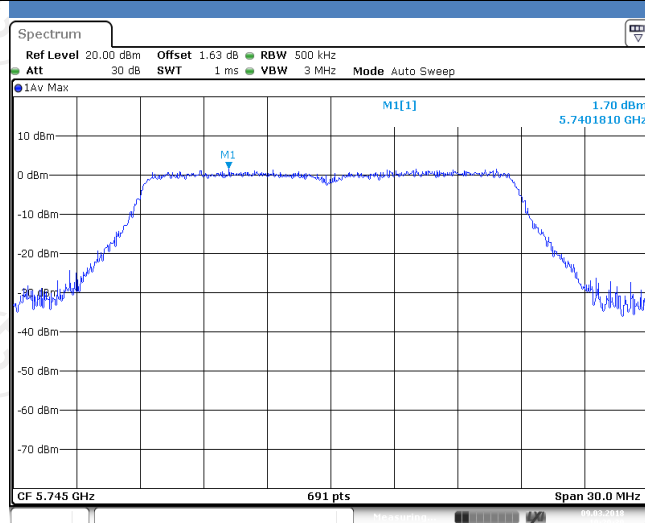


Mid

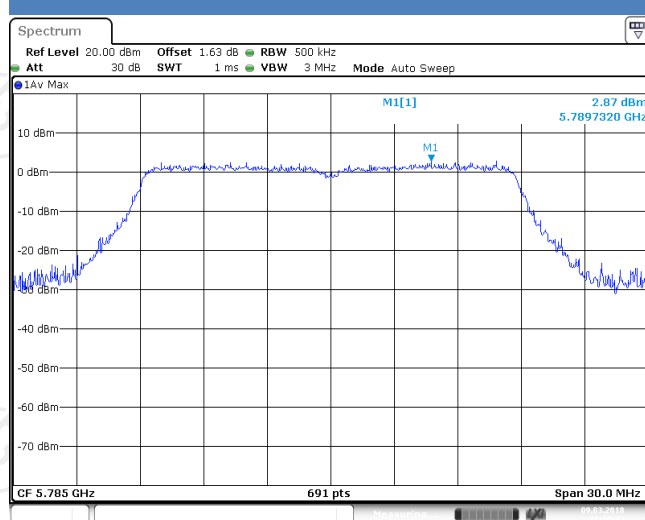


High

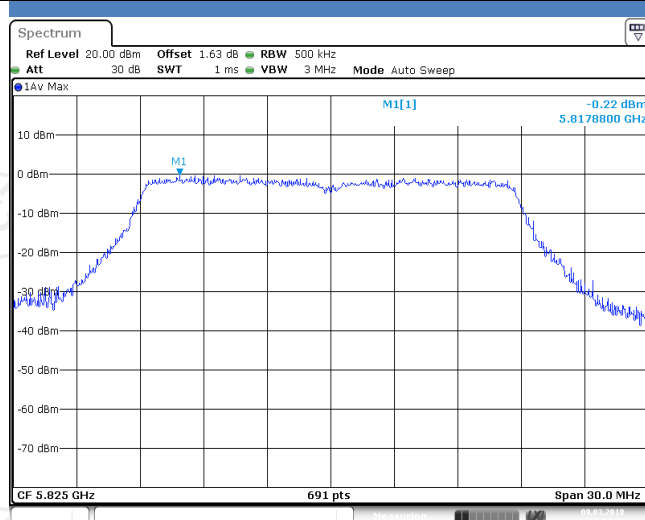
802.11n(HT20)



Low

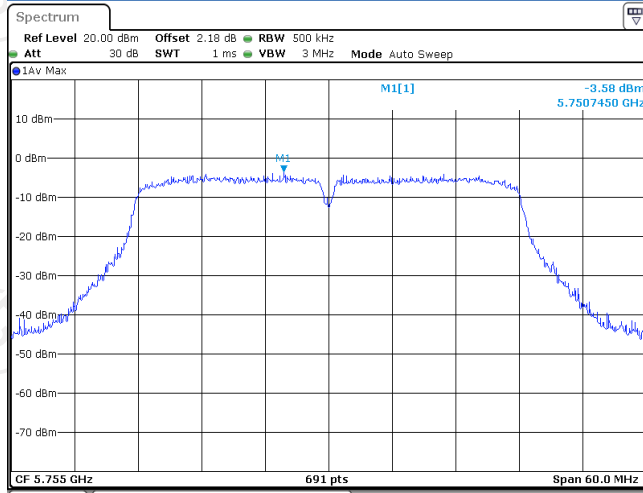


Mid

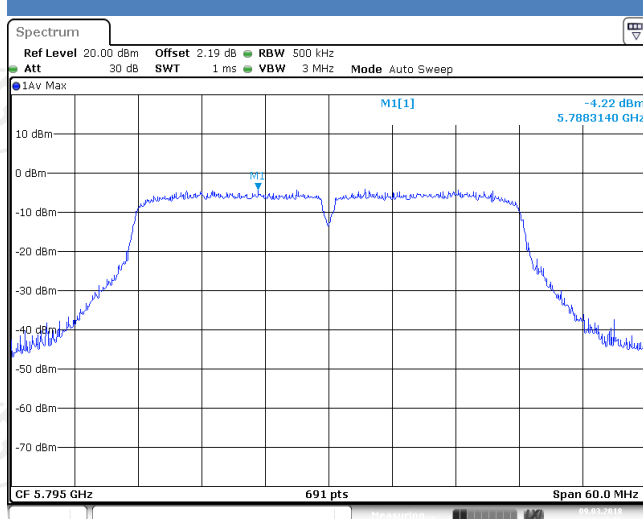


High

802.11n(HT40)



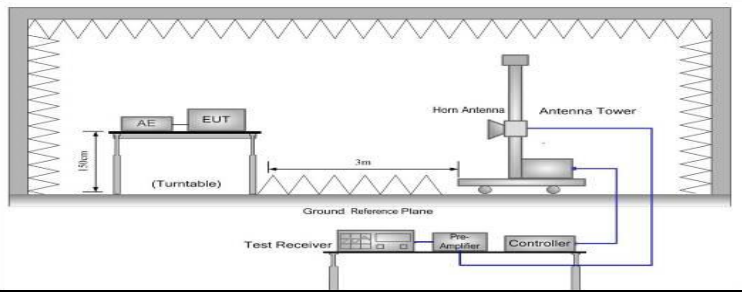
Low



High

6.7. Band edge

6.7.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407
Test Method:	ANSI C63.10 2013
Limit:	For band I&II&III: $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2$ dB μ V/m, for EIRP(dBm)= -27dBm For band IV(5715-5725MHz&5850-5860MHz): $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 78.2$ dB μ V/m, for EIRP(dBm)= -17dBm ; For band IV(other un-restricted band): $E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2$ dB μ V/m, for EIRP(dBm)= -27dBm
Test Setup:	 <p>The diagram illustrates the test setup within an anechoic chamber. An Equipment Under Test (EUT) is placed on a turntable at a height of 1.5 meters. A 3-meter camber is maintained between the EUT and the ground reference plane. A horn antenna is mounted on an antenna tower, positioned 3 meters away from the EUT. The test receiver system, including a test receiver, pre-amplifier, and controller, is connected to the antenna tower.</p>
Test Mode:	Transmitting mode with modulation
Test Procedure:	<ol style="list-style-type: none"> 1. 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. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. 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. 4. 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 rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. 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, quasipeak or average method as specified and then

	reported in a data sheet.
Test Result:	PASS



6.7.2. Test Instruments

Radiated Emission Test Site (966)				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ	200061	Sep. 27, 2018
Spectrum Analyzer	ROHDE&SCHW ARZ	FSP40	100056	Sep. 27, 2018
Spectrum Analyzer	Agilent	N9020A	MY49100060	Sep. 27, 2018
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 27, 2018
Pre-amplifier	HP	8447D	2727A05017	Sep. 27, 2018
Loop antenna	ZHINAN	ZN30900A	12024	Sep. 27, 2018
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 27, 2018
Horn Antenna	Schwarzbeck	BBH 9170	582	Jun. 07, 2018
Coax cable (9KHz-1GHz)	TCT	RE-low-01	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	TCT	RE-high-02	N/A	Sep. 27, 2018
Coax cable (9KHz-1GHz)	TCT	RE-low-03	N/A	Sep. 27, 2018
Coax cable (9KHz-40GHz)	TCT	RE-high-04	N/A	Sep. 27, 2018
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.7.3. Test Data

Band I for Band edge emission											
Bandwidth:		20MHz		Worst mode:			802.11a		Test channel:		Low
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector		
5150.00	17.53	31.70	9.79	0.00	59.02	68.20	-9.18	Horizontal	Peak		
5350.00	17.24	31.40	10.06	0.00	58.70	68.20	-9.50	Horizontal	Peak		
5150.00	17.31	31.70	9.79	0.00	58.80	68.20	-9.40	Vertical	Peak		
5350.00	16.89	31.40	10.06	0.00	58.35	68.20	-9.85	Vertical	Peak		
5150.00	7.52	31.70	9.79	0.00	49.01	54.00	-4.99	Horizontal	Average		
5350.00	6.93	31.40	10.06	0.00	48.39	54.00	-5.61	Horizontal	Average		
5150.00	8.02	31.70	9.79	0.00	49.51	54.00	-4.49	Vertical	Average		
5350.00	7.48	31.40	10.06	0.00	48.94	54.00	-5.06	Vertical	Average		

Band IV for Band edge emission											
Bandwidth:		20MHz		Worst mode:			802.11a		Test channel:		Low
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector		
5725.00	18.02	31.73	10.47	0.00	60.22	68.20	-7.98	Horizontal	Peak		
5850.00	16.75	32.20	10.61	0.00	59.56	68.20	-8.64	Horizontal	Peak		
5725.00	17.89	31.73	10.47	0.00	60.09	68.20	-8.11	Vertical	Peak		
5850.00	16.71	32.20	10.61	0.00	59.52	68.20	-8.68	Vertical	Peak		
5725.00	8.57	31.73	10.47	0.00	50.77	54.00	-3.23	Horizontal	Average		
5850.00	6.25	32.20	10.61	0.00	49.06	54.00	-4.94	Horizontal	Average		
5725.00	8.44	31.73	10.47	0.00	50.64	54.00	-3.36	Vertical	Average		
5850.00	6.36	32.20	10.61	0.00	49.17	54.00	-4.83	Vertical	Average		

Band I for Band edge emission											
Bandwidth:		20MHz		Worst mode:			802.11a		Test channel:		High
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector		
5150.00	17.02	31.70	9.79	0.00	58.51	68.20	-9.69	Horizontal	Peak		
5350.00	17.38	31.40	10.06	0.00	58.84	68.20	-9.36	Horizontal	Peak		
5150.00	16.89	31.70	9.79	0.00	58.38	68.20	-9.82	Vertical	Peak		
5350.00	17.32	31.40	10.06	0.00	58.78	68.20	-9.42	Vertical	Peak		
5150.00	7.15	31.70	9.79	0.00	48.64	54.00	-5.36	Horizontal	Average		
5350.00	7.53	31.40	10.06	0.00	48.99	54.00	-5.01	Horizontal	Average		
5150.00	7.49	31.70	9.79	0.00	48.98	54.00	-5.02	Vertical	Average		
5350.00	7.68	31.40	10.06	0.00	49.14	54.00	-4.86	Vertical	Average		

Band IV for Band edge emission											
Bandwidth:		20MHz		Worst mode:			802.11a		Test channel:		High
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector		
5725.00	16.53	31.73	10.47	0.00	58.73	68.20	-9.47	Horizontal	Peak		
5850.00	17.77	32.20	10.61	0.00	60.58	68.20	-7.62	Horizontal	Peak		
5725.00	16.49	31.73	10.47	0.00	58.69	68.20	-9.51	Vertical	Peak		
5850.00	17.39	32.20	10.61	0.00	60.20	68.20	-8.00	Vertical	Peak		
5725.00	6.28	31.73	10.47	0.00	48.48	54.00	-5.52	Horizontal	Average		
5850.00	8.24	32.20	10.61	0.00	51.05	54.00	-2.95	Horizontal	Average		
5725.00	6.53	31.73	10.47	0.00	48.73	54.00	-5.27	Vertical	Average		
5850.00	8.07	32.20	10.61	0.00	50.88	54.00	-3.12	Vertical	Average		

Band I for Band edge emission										
Bandwidth:		20MHz		Worst mode:		802.11n		Test channel:		Low
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector	
5150.00	17.65	31.70	9.79	0.00	59.14	68.20	-9.06	Horizontal	Peak	
5350.00	17.35	31.40	10.06	0.00	58.81	68.20	-9.39	Horizontal	Peak	
5150.00	17.77	31.70	9.79	0.00	59.26	68.20	-8.94	Vertical	Peak	
5350.00	17.15	31.40	10.06	0.00	58.61	68.20	-9.59	Vertical	Peak	
5150.00	7.88	31.70	9.79	0.00	49.37	54.00	-4.63	Horizontal	Average	
5350.00	7.12	31.40	10.06	0.00	48.58	54.00	-5.42	Horizontal	Average	
5150.00	7.53	31.70	9.79	0.00	49.02	54.00	-4.98	Vertical	Average	
5350.00	7.18	31.40	10.06	0.00	48.64	54.00	-5.36	Vertical	Average	

Band IV for Band edge emission										
Bandwidth:		20MHz		Worst mode:		802.11n		Test channel:		Low
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector	
5725.00	17.89	31.73	10.47	0.00	60.09	68.20	-8.11	Horizontal	Peak	
5850.00	16.54	32.20	10.61	0.00	59.35	68.20	-8.85	Horizontal	Peak	
5725.00	17.80	31.73	10.47	0.00	60.00	68.20	-8.20	Vertical	Peak	
5850.00	16.31	32.20	10.61	0.00	59.12	68.20	-9.08	Vertical	Peak	
5725.00	8.21	31.73	10.47	0.00	50.41	54.00	-3.59	Horizontal	Average	
5850.00	6.11	32.20	10.61	0.00	48.92	54.00	-5.08	Horizontal	Average	
5725.00	8.27	31.73	10.47	0.00	50.47	54.00	-3.53	Vertical	Average	
5850.00	6.06	32.20	10.61	0.00	48.87	54.00	-5.13	Vertical	Average	

Band I for Band edge emission										
Bandwidth:		20MHz		Worst mode:		802.11n		Test channel:		High
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector	
5150.00	17.27	31.70	9.79	0.00	58.76	68.20	-9.44	Horizontal	Peak	
5350.00	17.53	31.40	10.06	0.00	58.99	68.20	-9.21	Horizontal	Peak	
5150.00	16.93	31.70	9.79	0.00	58.42	68.20	-9.78	Vertical	Peak	
5350.00	17.35	31.40	10.06	0.00	58.81	68.20	-9.39	Vertical	Peak	
5150.00	7.28	31.70	9.79	0.00	48.77	54.00	-5.23	Horizontal	Average	
5350.00	7.43	31.40	10.06	0.00	48.89	54.00	-5.11	Horizontal	Average	
5150.00	7.38	31.70	9.79	0.00	48.87	54.00	-5.13	Vertical	Average	
5350.00	7.53	31.40	10.06	0.00	48.99	54.00	-5.01	Vertical	Average	

Band IV for Band edge emission										
Bandwidth:		20MHz		Worst mode:		802.11n		Test channel:		High
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector	
5725.00	16.67	31.73	10.47	0.00	58.87	68.20	-9.33	Horizontal	Peak	
5850.00	17.98	32.20	10.61	0.00	60.79	68.20	-7.41	Horizontal	Peak	
5725.00	16.35	31.73	10.47	0.00	58.55	68.20	-9.65	Vertical	Peak	
5850.00	17.67	32.20	10.61	0.00	60.48	68.20	-7.72	Vertical	Peak	
5725.00	6.35	31.73	10.47	0.00	48.55	54.00	-5.45	Horizontal	Average	
5850.00	8.04	32.20	10.61	0.00	50.85	54.00	-3.15	Horizontal	Average	
5725.00	6.23	31.73	10.47	0.00	48.43	54.00	-5.57	Vertical	Average	
5850.00	8.28	32.20	10.61	0.00	51.09	54.00	-2.91	Vertical	Average	

Band I for Band edge emission											
Bandwidth:		40MHz		Worst mode:			802.11n		Test channel:		Low
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector		
5150.00	17.75	31.70	9.79	0.00	59.24	68.20	-8.96	Horizontal	Peak		
5350.00	16.96	31.40	10.06	0.00	58.42	68.20	-9.78	Horizontal	Peak		
5150.00	17.35	31.70	9.79	0.00	58.84	68.20	-9.36	Vertical	Peak		
5350.00	17.27	31.40	10.06	0.00	58.73	68.20	-9.47	Vertical	Peak		
5150.00	7.57	31.70	9.79	0.00	49.06	54.00	-4.94	Horizontal	Average		
5350.00	7.35	31.40	10.06	0.00	48.81	54.00	-5.19	Horizontal	Average		
5150.00	7.22	31.70	9.79	0.00	48.71	54.00	-5.29	Vertical	Average		
5350.00	7.05	31.40	10.06	0.00	48.51	54.00	-5.49	Vertical	Average		

Band IV for Band edge emission											
Bandwidth:		40MHz		Worst mode:			802.11n		Test channel:		Low
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector		
5725.00	17.68	31.73	10.47	0.00	59.88	68.20	-8.32	Horizontal	Peak		
5850.00	16.85	32.20	10.61	0.00	59.66	68.20	-8.54	Horizontal	Peak		
5725.00	17.43	31.73	10.47	0.00	59.63	68.20	-8.57	Vertical	Peak		
5850.00	16.51	32.20	10.61	0.00	59.32	68.20	-8.88	Vertical	Peak		
5725.00	8.32	31.73	10.47	0.00	50.52	54.00	-3.48	Horizontal	Average		
5850.00	6.18	32.20	10.61	0.00	48.99	54.00	-5.01	Horizontal	Average		
5725.00	8.37	31.73	10.47	0.00	50.57	54.00	-3.43	Vertical	Average		
5850.00	6.56	32.20	10.61	0.00	49.37	54.00	-4.63	Vertical	Average		

Band I for Band edge emission											
Bandwidth:		40MHz		Worst mode:			802.11n		Test channel:		High
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector		
5150.00	17.11	31.70	9.79	0.00	58.60	68.20	-9.60	Horizontal	Peak		
5350.00	17.52	31.40	10.06	0.00	58.98	68.20	-9.22	Horizontal	Peak		
5150.00	17.31	31.70	9.79	0.00	58.80	68.20	-9.40	Vertical	Peak		
5350.00	17.37	31.40	10.06	0.00	58.83	68.20	-9.37	Vertical	Peak		
5150.00	7.27	31.70	9.79	0.00	48.76	54.00	-5.24	Horizontal	Average		
5350.00	7.16	31.40	10.06	0.00	48.62	54.00	-5.38	Horizontal	Average		
5150.00	7.33	31.70	9.79	0.00	48.82	54.00	-5.18	Vertical	Average		
5350.00	7.24	31.40	10.06	0.00	48.70	54.00	-5.30	Vertical	Average		

Band IV for Band edge emission											
Bandwidth:		40MHz		Worst mode:			802.11n		Test channel:		High
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin Limit (dB)	Polarization	Detector		
5725.00	16.53	31.73	10.47	0.00	58.73	68.20	-9.47	Horizontal	Peak		
5850.00	17.85	32.20	10.61	0.00	60.66	68.20	-7.54	Horizontal	Peak		
5725.00	16.27	31.73	10.47	0.00	58.47	68.20	-9.73	Vertical	Peak		
5850.00	17.86	32.20	10.61	0.00	60.67	68.20	-7.53	Vertical	Peak		
5725.00	6.77	31.73	10.47	0.00	48.97	54.00	-5.03	Horizontal	Average		
5850.00	8.18	32.20	10.61	0.00	50.99	54.00	-3.01	Horizontal	Average		
5725.00	6.38	31.73	10.47	0.00	48.58	54.00	-5.42	Vertical	Average		
5850.00	8.16	32.20	10.61	0.00	50.97	54.00	-3.03	Vertical	Average		

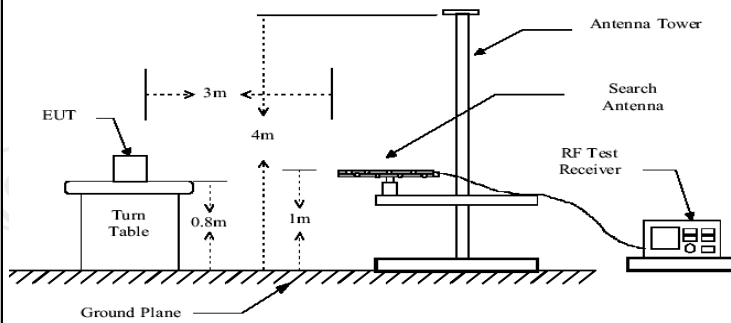
6.8. Spurious Emission

6.8.1.1. Test Specification

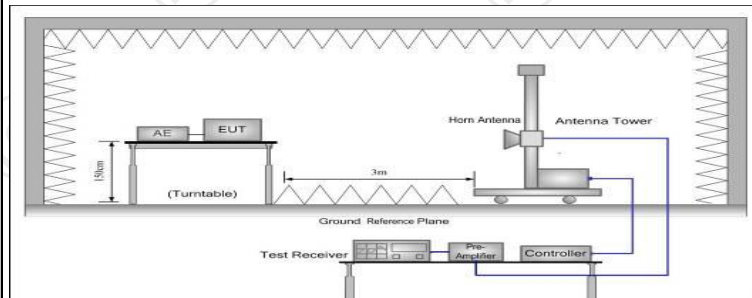
Test Requirement:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205				
Test Method:	KDB 789033 D02 v02r01				
Frequency Range:	9kHz to 40GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Operation mode:	Transmitting mode with modulation				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120KHz	300KHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		Peak	1MHz	10Hz	Average Value
Limit:	Unwanted spurious emissions fallen in restricted bands per FCC Part15.205 shall comply with the general field strength limits set forth in § 15.209 as below table,				
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)		
	0.009-0.490	2400/F(KHz)	300		
	0.490-1.705	24000/F(KHz)	30		
	1.705-30	30	30		
	30-88	100	3		
	88-216	150	3		
	216-960	200	3		
	Above 960	500	3		
	Frequency	Limit (dBuV/m @3m)	Detector		
Above 1G	74.0	Peak			
	54.0	Average			
Test setup:	For radiated emissions below 30MHz				
	<p>The diagram illustrates the test setup for radiated emissions below 30MHz. It shows an EUT (Equipment Under Test) on a turn table, positioned 3m away from a circular antenna. The antenna is mounted on a ground plane. The antenna is connected to a Pre-Amplifier, which is connected to a Receiver, which is connected to a Computer.</p>				



30MHz to 1GHz



Above 1GHz



Test Procedure:

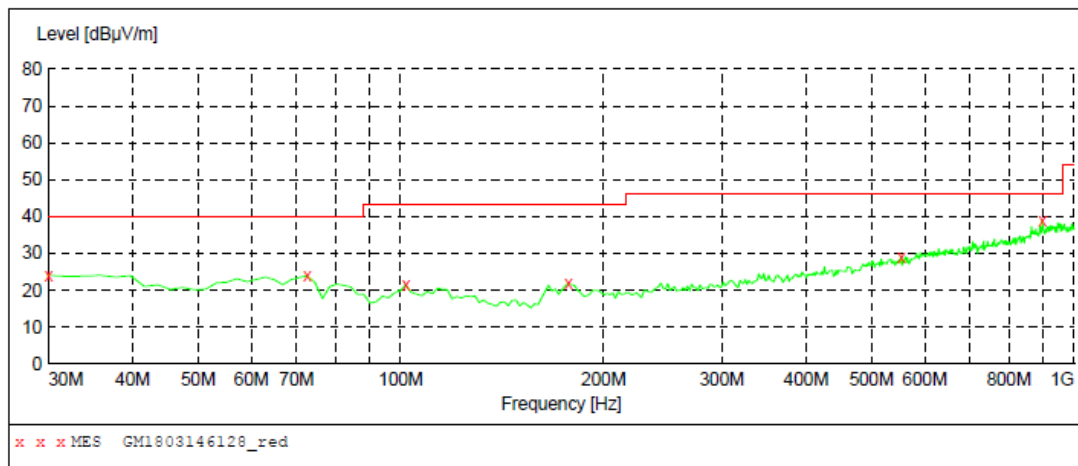
1. The EUT was placed on the top of a rotating table 0.8/1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
3. 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.
4. 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 rotatable was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. 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 results:

PASS

6.8.2. Test Data

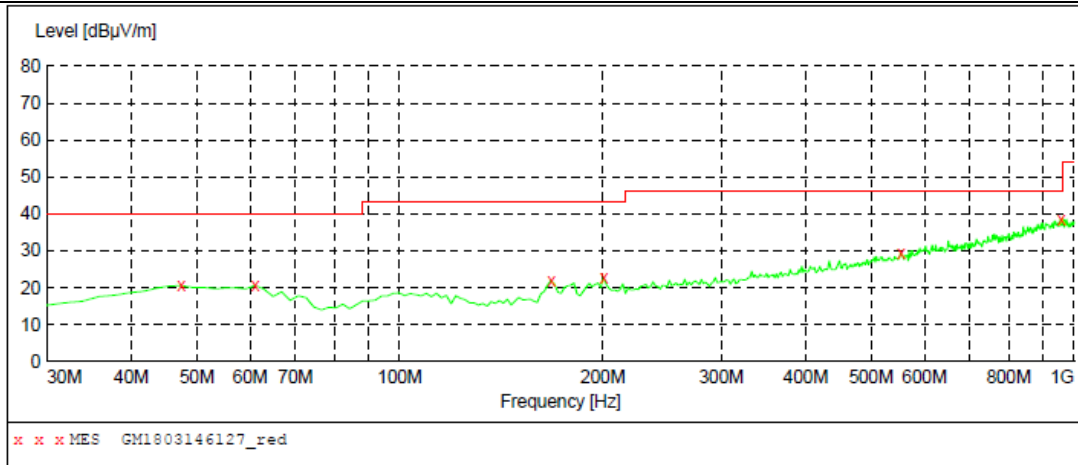
Please refer to following diagram for individual
Below 1GHz



MEASUREMENT RESULT: "GM1803146128_red"

3/14/2018 10:05PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	24.10	-13.3	40.0	15.9	QP	100.0	213.00	VERTICAL
72.680000	23.90	-14.1	40.0	16.1	QP	100.0	187.00	VERTICAL
101.780000	21.50	-10.5	43.5	22.0	QP	100.0	119.00	VERTICAL
177.440000	21.80	-12.5	43.5	21.7	QP	100.0	0.00	VERTICAL
553.800000	28.90	-0.7	46.0	17.1	QP	100.0	33.00	VERTICAL
897.180000	38.90	6.7	46.0	7.1	QP	100.0	132.00	VERTICAL



MEASUREMENT RESULT: "GM1803146127_red"

3/14/2018 10:02PM

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
47.460000	20.60	-8.8	40.0	19.4	QP	100.0	359.00	HORIZONTAL
61.040000	20.70	-10.3	40.0	19.3	QP	100.0	105.00	HORIZONTAL
167.740000	22.00	-13.0	43.5	21.5	QP	300.0	104.00	HORIZONTAL
200.720000	22.80	-9.9	43.5	20.7	QP	300.0	75.00	HORIZONTAL
553.800000	29.40	-0.7	46.0	16.6	QP	100.0	47.00	HORIZONTAL
955.380000	38.40	7.3	46.0	7.6	QP	100.0	89.00	HORIZONTAL

Remark:

1. Transd = Cable lose + Antenna factor - Pre-amplifier; Margin = Limit – Level
2. The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported
3. Pre-scan the 802.11a and 802.11n test mode, found that 802.11a and band 1 mode for low channel was the worst mode, and the report showed only the test results of the worst mode.

Above 1GHz

Band I for Low										
Bandwidth:			20MHz			Worst mode:			802.11a	
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	
4175.28	32.04	29.98	8.92	37.71	33.23	74.00	-40.77	Horizontal	Peak	
7357.37	30.17	36.30	12.03	34.88	43.62	74.00	-30.38	Horizontal	Peak	
9276.29	30.63	39.06	13.57	35.64	47.62	68.20	-20.58	Horizontal	Peak	
10118.56	29.52	39.12	13.55	34.22	47.97	68.20	-20.23	Horizontal	Peak	
3408.91	33.36	28.27	7.97	38.54	31.06	68.20	-37.14	Vertical	Peak	
5614.30	30.84	31.77	10.29	35.83	37.07	68.20	-31.13	Vertical	Peak	
8368.36	31.31	36.54	12.84	34.31	46.38	74.00	-27.62	Vertical	Peak	
9925.02	30.04	39.10	13.58	34.10	48.62	68.20	-19.58	Vertical	Peak	

Band I for Mid										
Bandwidth:			20MHz			Worst mode:			802.11a	
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	
3045.70	34.54	28.69	7.53	38.22	32.54	68.20	-35.66	Horizontal	Peak	
6223.43	30.96	32.95	11.01	35.29	39.63	68.20	-28.57	Horizontal	Peak	
8642.11	32.09	37.55	12.93	34.47	48.10	68.20	-20.10	Horizontal	Peak	
10931.24	28.66	40.55	13.57	34.16	48.62	74.00	-25.38	Horizontal	Peak	
3035.91	35.23	28.67	7.52	38.22	33.20	68.20	-35.00	Vertical	Peak	
4082.25	32.48	29.86	8.85	37.92	33.27	74.00	-40.73	Vertical	Peak	
6701.66	29.89	34.20	11.48	35.17	40.40	68.20	-27.80	Vertical	Peak	
10584.98	29.33	39.96	13.59	33.40	49.48	68.20	-18.72	Vertical	Peak	

Band I for High										
Bandwidth:			20MHz			Worst mode:			802.11a	
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	
2846.63	31.56	28.29	7.40	38.33	28.92	74.00	-45.08	Horizontal	Peak	
6283.82	30.35	33.07	11.00	35.30	39.12	68.20	-29.08	Horizontal	Peak	
7573.63	28.56	36.17	12.63	34.96	42.40	74.00	-31.60	Horizontal	Peak	
10086.05	28.91	39.10	13.55	33.92	47.64	68.20	-20.56	Horizontal	Peak	
3670.86	33.11	29.30	8.35	38.26	32.50	74.00	-41.50	Vertical	Peak	
6810.39	30.34	34.07	11.61	34.98	41.04	68.20	-27.16	Vertical	Peak	
8810.64	32.42	37.71	13.11	34.29	48.95	68.20	-19.25	Vertical	Peak	
10931.24	30.58	40.55	13.57	34.16	50.54	74.00	-23.46	Vertical	Peak	

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Measuring frequencies from 1 GHz to 40GHz of highest fundamental frequency.

Band I for Low									
Bandwidth: 20MHz					Worst mode: 802.11n				
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
4017.08	30.11	29.73	8.79	38.07	30.56	74.00	-43.44	Horizontal	Peak
6489.38	28.61	33.93	11.16	35.33	38.37	68.20	-29.83	Horizontal	Peak
9579.74	29.59	39.06	13.73	35.17	47.21	68.20	-20.99	Horizontal	Peak
9893.12	29.92	39.10	13.59	34.51	48.10	68.20	-20.10	Horizontal	Peak
3815.43	31.08	29.62	8.52	38.22	31.00	74.00	-43.00	Vertical	Peak
6243.50	30.44	32.99	11.01	35.29	39.15	68.20	-29.05	Vertical	Peak
8341.47	29.65	36.48	12.83	34.34	44.62	74.00	-29.38	Vertical	Peak
10896.11	28.87	40.59	13.58	34.28	48.76	74.00	-25.24	Vertical	Peak

Band I for Mid									
Bandwidth: 20MHz					Worst mode: 802.11n				
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
3577.54	32.55	29.23	8.24	38.30	31.72	68.20	-36.48	Horizontal	Peak
6854.38	29.53	34.38	11.67	34.94	40.64	68.20	-27.56	Horizontal	Peak
8314.66	28.17	36.43	12.82	34.38	43.04	74.00	-30.96	Horizontal	Peak
11325.22	26.23	40.30	13.44	33.87	46.10	74.00	-27.90	Horizontal	Peak
3902.37	31.47	29.70	8.64	38.17	31.64	74.00	-42.36	Vertical	Peak
7428.77	28.81	36.24	12.16	34.84	42.37	74.00	-31.63	Vertical	Peak
9069.62	29.26	38.11	13.38	34.91	45.84	74.00	-28.16	Vertical	Peak
11923.78	28.08	39.70	14.47	33.45	48.80	74.00	-25.20	Vertical	Peak

Band I for High									
Bandwidth: 20MHz					Worst mode: 802.11n				
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
3940.24	30.74	29.70	8.70	38.15	30.99	74.00	-43.01	Horizontal	Peak
6573.47	28.58	34.15	11.31	35.35	38.69	68.20	-29.51	Horizontal	Peak
8924.81	29.94	37.82	13.23	34.36	46.63	68.20	-21.57	Horizontal	Peak
12473.40	27.66	38.95	14.40	32.74	48.27	74.00	-25.73	Horizontal	Peak
3430.92	32.24	28.45	8.01	38.51	30.19	68.20	-38.01	Vertical	Peak
6183.50	30.68	32.83	10.98	35.30	39.19	68.20	-29.01	Vertical	Peak
8368.36	31.31	36.54	12.84	34.31	46.38	74.00	-27.62	Vertical	Peak
10722.15	28.25	39.98	13.58	34.08	47.73	74.00	-26.27	Vertical	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Measuring frequencies from 1 GHz to 40GHz of highest fundamental frequency.

Band I for Low										
Bandwidth:			40MHz			Worst mode:			802.11n	
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	
4043.02	31.49	29.79	8.81	38.01	32.08	74.00	-41.92	Horizontal	Peak	
5687.06	29.54	31.63	10.41	35.63	35.95	68.20	-32.25	Horizontal	Peak	
7696.51	28.97	36.10	12.98	35.02	43.03	74.00	-30.97	Horizontal	Peak	
10216.75	28.27	39.22	13.56	35.01	46.04	68.20	-22.16	Horizontal	Peak	
4188.74	30.57	29.99	8.93	37.68	31.81	74.00	-42.19	Vertical	Peak	
7500.85	29.20	36.10	12.40	34.90	42.80	74.00	-31.20	Vertical	Peak	
8181.91	29.02	36.75	12.73	34.55	43.95	74.00	-30.05	Vertical	Peak	
10619.11	27.17	39.94	13.59	33.35	47.35	74.00	-26.65	Vertical	Peak	

Band I for High										
Bandwidth:			40MHz			Worst mode:			802.11n	
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	
4583.80	30.34	30.87	9.43	37.26	33.38	74.00	-40.62	Horizontal	Peak	
8586.65	31.52	37.25	12.89	34.50	47.16	68.20	-21.04	Horizontal	Peak	
9426.80	30.35	39.01	13.70	35.28	47.78	74.00	-26.22	Horizontal	Peak	
11923.78	26.47	39.70	14.47	33.45	47.19	74.00	-26.81	Horizontal	Peak	
4467.27	32.48	30.64	9.24	37.45	34.91	68.20	-33.29	Vertical	Peak	
7124.32	29.39	35.75	11.86	34.97	42.03	68.20	-26.17	Vertical	Peak	
8208.29	29.04	36.67	12.77	34.54	43.94	74.00	-30.06	Vertical	Peak	
11001.84	27.97	40.45	13.57	33.90	48.09	74.00	-25.91	Vertical	Peak	

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Measuring frequencies from 1 GHz to 40GHz of highest fundamental frequency.

Band IV for Low									
Bandwidth: 20MHz					Worst mode: 802.11a				
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
3718.43	31.33	29.36	8.41	38.25	30.85	74.00	-43.15	Horizontal	Peak
5705.39	29.98	31.63	10.44	35.58	36.47	68.20	-31.73	Horizontal	Peak
7333.73	29.51	36.30	12.00	34.91	42.90	74.00	-31.10	Horizontal	Peak
9579.74	29.59	39.06	13.73	35.17	47.21	68.20	-20.99	Horizontal	Peak
3365.30	32.87	28.20	7.92	38.49	30.50	68.20	-37.70	Vertical	Peak
5930.08	30.26	32.36	10.64	35.40	37.86	68.20	-30.34	Vertical	Peak
9861.33	30.28	39.10	13.61	34.91	48.08	68.20	-20.12	Vertical	Peak
11001.84	27.97	40.45	13.57	33.90	48.09	74.00	-25.91	Vertical	Peak

Band IV for Mid									
Bandwidth: 20MHz					Worst mode: 802.11a				
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
4243.02	30.54	30.09	8.98	37.63	31.98	74.00	-42.02	Horizontal	Peak
7381.09	28.87	36.30	12.05	34.84	42.38	68.20	-25.82	Horizontal	Peak
8896.13	29.75	37.80	13.20	34.34	46.41	68.20	-21.79	Horizontal	Peak
10756.72	27.06	40.10	13.58	34.32	46.42	74.00	-27.58	Horizontal	Peak
3441.99	31.57	28.54	8.03	38.49	29.65	68.20	-38.55	Vertical	Peak
5723.79	30.11	31.72	10.47	35.53	36.77	68.20	-31.43	Vertical	Peak
7263.25	28.81	36.26	11.93	35.00	42.00	74.00	-32.00	Vertical	Peak
11072.90	27.13	40.34	13.54	33.71	47.30	74.00	-26.70	Vertical	Peak

Band IV for High									
Bandwidth: 20MHz					Worst mode: 802.11a				
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
4243.02	30.54	30.09	8.98	37.63	31.98	74.00	-42.02	Horizontal	Peak
6468.52	28.14	33.78	11.12	35.33	37.71	68.20	-30.49	Horizontal	Peak
8896.13	29.75	37.80	13.20	34.34	46.41	68.20	-21.79	Horizontal	Peak
11108.59	26.61	40.30	13.53	33.61	46.83	74.00	-27.17	Horizontal	Peak
3430.92	32.24	28.45	8.01	38.51	30.19	68.20	-38.01	Vertical	Peak
4452.91	30.72	30.61	9.22	37.47	33.08	68.20	-35.12	Vertical	Peak
6344.79	28.88	33.19	11.00	35.30	37.77	68.20	-30.43	Vertical	Peak
9703.89	30.26	39.10	13.69	35.44	47.61	68.20	-20.59	Vertical	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Measuring frequencies from 1 GHz to 40GHz of highest fundamental frequency.

Band IV for Low									
Bandwidth: 20MHz					Worst mode: 802.11n				
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
3659.06	32.23	29.30	8.34	38.26	31.61	74.00	-42.39	Horizontal	Peak
5968.38	29.18	32.44	10.66	35.43	36.85	68.20	-31.35	Horizontal	Peak
8155.62	28.60	36.83	12.67	34.55	43.55	74.00	-30.45	Horizontal	Peak
9336.21	29.94	39.13	13.63	35.48	47.22	74.00	-26.78	Horizontal	Peak
3682.70	31.90	29.30	8.37	38.25	31.32	74.00	-42.68	Vertical	Peak
7381.09	29.19	36.30	12.05	34.84	42.70	74.00	-31.30	Vertical	Peak
8181.91	29.02	36.75	12.73	34.55	43.95	74.00	-30.05	Vertical	Peak
12716.65	28.40	38.86	14.53	32.43	49.36	68.20	-18.84	Vertical	Peak

Band IV for Mid									
Bandwidth: 20MHz					Worst mode: 802.11n				
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
3554.58	30.88	29.16	8.20	38.33	29.91	68.20	-38.29	Horizontal	Peak
8422.41	29.76	36.67	12.85	34.29	44.99	74.00	-29.01	Horizontal	Peak
8754.10	29.88	37.79	13.05	34.34	46.38	68.20	-21.82	Horizontal	Peak
10021.32	27.85	39.10	13.54	33.34	47.15	68.20	-21.05	Horizontal	Peak
3864.87	30.50	29.67	8.59	38.19	30.57	74.00	-43.43	Vertical	Peak
5949.20	29.53	32.40	10.65	35.42	37.16	68.20	-31.04	Vertical	Peak
8559.06	29.70	37.14	12.88	34.47	45.25	68.20	-22.95	Vertical	Peak
10722.15	28.25	39.98	13.58	34.08	47.73	74.00	-26.27	Vertical	Peak

Band IV for High									
Bandwidth: 20MHz					Worst mode: 802.11n				
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
4043.02	31.49	29.79	8.81	38.01	32.08	74.00	-41.92	Horizontal	Peak
5687.06	29.54	31.63	10.41	35.63	35.95	68.20	-32.25	Horizontal	Peak
7696.51	28.97	36.10	12.98	35.02	43.03	68.20	-25.17	Horizontal	Peak
10216.75	28.27	39.22	13.56	35.01	46.04	68.20	-22.16	Horizontal	Peak
4030.03	31.56	29.76	8.80	38.04	32.08	68.20	-36.12	Vertical	Peak
6723.27	29.80	34.15	11.51	35.13	40.33	68.20	-27.87	Vertical	Peak
9861.33	30.28	39.10	13.61	34.91	48.08	68.20	-20.12	Vertical	Peak
11398.37	27.83	40.30	13.41	34.16	47.38	74.00	-26.62	Vertical	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Measuring frequencies from 1 GHz to 40GHz of highest fundamental frequency.

Band IV for Low									
Bandwidth: 40MHz					Worst mode: 802.11n				
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
3877.33	30.74	29.68	8.61	38.18	30.85	74.00	-43.15	Horizontal	Peak
6552.35	28.69	34.11	11.27	35.35	38.72	68.20	-29.48	Horizontal	Peak
8642.11	32.09	37.55	12.93	34.47	48.10	68.20	-20.10	Horizontal	Peak
11620.65	27.46	40.15	13.68	33.20	48.09	74.00	-25.91	Horizontal	Peak
4298.00	29.95	30.20	9.03	37.61	31.57	74.00	-42.43	Vertical	Peak
8614.34	29.54	37.39	12.91	34.50	45.34	68.20	-22.86	Vertical	Peak
8924.81	29.91	37.82	13.23	34.36	46.60	68.20	-21.60	Vertical	Peak
10861.09	28.17	40.46	13.58	34.41	47.80	74.00	-26.20	Vertical	Peak

Band IV for High									
Bandwidth: 40MHz					Worst mode: 802.11n				
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
4367.74	31.15	30.40	9.10	37.57	33.08	74.00	-40.92	Horizontal	Peak
7010.58	28.33	35.33	11.85	34.81	40.70	68.20	-27.50	Horizontal	Peak
7476.74	31.22	36.15	12.32	34.88	44.81	74.00	-29.19	Horizontal	Peak
10826.19	27.99	40.34	13.58	34.54	47.37	74.00	-26.63	Horizontal	Peak
4030.03	31.56	29.76	8.80	38.04	32.08	74.00	-41.92	Vertical	Peak
8614.34	29.54	37.39	12.91	34.50	45.34	68.20	-22.86	Vertical	Peak
9925.02	30.04	39.10	13.58	34.10	48.62	68.20	-19.58	Vertical	Peak
11583.30	27.50	40.18	13.61	33.24	48.05	74.00	-25.95	Vertical	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. Measuring frequencies from 1 GHz to 40GHz of highest fundamental frequency.

6.9. Frequency Stability Measurement

6.9.1. Test Specification

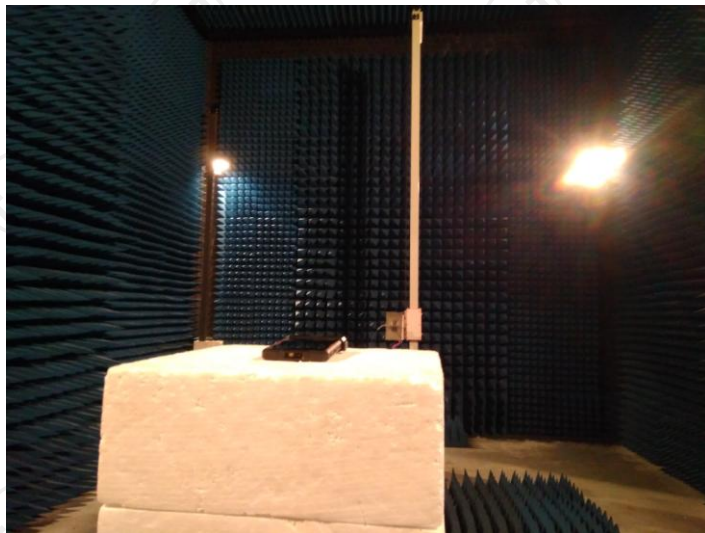
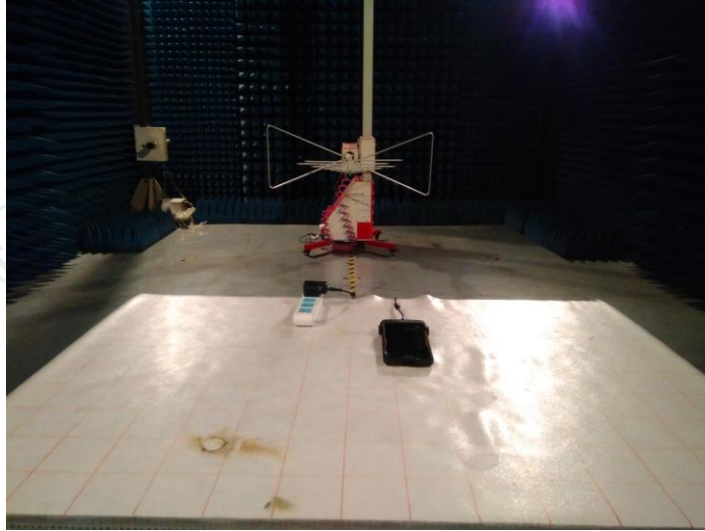
Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Method:	ANSI C63.10: 2013
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	<pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] subgraph TC [Temperature Chamber] EUT end EUT --- P[AC/DC Power supply] </pre>
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	Pre-scan was performed at Low/ Mid /High channel, the worst case was found. Only the test data of Low channel was shown in this report.

Test plots as follows:

Band I for 802.11a Low					
Voltage(%)	Power(VDC)	TEMP(°C)	Test Frequency (MHz)	Freq.Dev (Hz)	Deviation (ppm)
100%	3.70	-20	5180	20000	3.86100
100%		-10	5180	19000	3.66795
100%		0	5180	18000	3.47490
100%		10	5180	18000	3.47490
100%		20	5180	18000	3.47490
100%		30	5180	18000	3.47490
100%		40	5180	18000	3.47490
100%		50	5180	19000	3.66795
85%	3.33	25	5180	18000	3.47490
115%	4.07	25	5180	18000	3.47490

Band IV for 802.11a Low					
Voltage(%)	Power(VDC)	TEMP(°C)	Test Frequency (MHz)	Freq.Dev (Hz)	Deviation (ppm)
100%	3.70	-20	5745	19000	3.30722
100%		-10	5745	18000	3.13316
100%		0	5745	19000	3.30722
100%		10	5745	19000	3.30722
100%		20	5745	19000	3.30722
100%		30	5745	19000	3.30722
100%		40	5745	19000	3.30722
100%		50	5745	19000	3.30722
85%	3.33	25	5745	19000	3.30722
115%	4.07	25	5745	19000	3.30722

Appendix A: Photographs of Test Setup Radiated Emission



CE



Appendix B: Photographs of EUT

Reference to the test report No.: TRE1803002801.

*******END OF REPORT*******