



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2153-1
FCC ID : IHDT56ZW2
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : May 20, 2021 ~ Jun. 17, 2021

We, Sporton International (ShenZhen) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (ShenZhen) Inc., the test report shall not be reproduced except in full.

Reviewed by: Derreck Chen / Supervisor

Approved by: Eric Shih / Manager



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People's Republic of China**



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SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.403(i)	6dB, 26dB and 99% Occupied Bandwidth	> 500kHz	Pass	-
3.2	15.407(a)	Maximum Conducted Output Power	≤ 30 dBm	Pass	-
3.3	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Pass	-
3.4	15.407(b)	Unwanted Emissions	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 3.27 dB at 5644.200 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 22.46 dB at 0.690 MHz
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass	-
3.7	15.203 & 15.407(a)	Antenna Requirement	N/A	N/A	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2153-1
FCC ID	IHDT56ZW2
EUT supports Radios application	GSM/WCDMA/LTE/5G NR WLAN 2.4GHz 802.11b/g/n/ac/ax HT20/VHT20/HE20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 WLAN 5GHz 802.11ax HE20/HE40/HE80 Bluetooth BR/EDR/LE NFC and GNSS
IMEI Code	Conducted: 366368690016812/356368690016820 Conduction: 356368690019394/356368690019402 Radiation: 356368690018156/356368690018164
HW Version	DVT2
SW Version	RRA31.43
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.



1.4 Product Specification of Equipment Under Test

Standards-related Product Specification							
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz						
Maximum Output Power	<MIMO Ant. 1+2> <5745 MHz ~ 5825 MHz> 802.11a : 19.35 dBm / 0.0861 W 802.11n HT20 : 19.24 dBm / 0.0839 W 802.11n HT40 : 19.59 dBm / 0.0910 W 802.11ac VHT20: 19.29 dBm / 0.0849 W 802.11ac VHT40: 19.50 dBm / 0.0891 W 802.11ac VHT80: 19.54 dBm / 0.0899 W 802.11ax HE20 : 19.30 dBm / 0.0851 W 802.11ax HE 40 : 19.48 dBm / 0.0887 W 802.11ax HE 80 : 19.48 dBm / 0.0887 W						
99% Occupied Bandwidth	<MIMO Ant. 1+2> <5745 MHz ~ 5825 MHz> 802.11a : 23.83 MHz 802.11n HT20 : 23.18 MHz 802.11n HT40 : 38.16 MHz 802.11ac VHT80 : 77.32 MHz 802.11ax HE20 : 19.43 MHz 802.11ax HE 40 : 39.26 MHz 802.11ax HE 80 : 79.24 MHz						
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac/ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)						
Antenna Type / Gain	<Ant. 1> : PIFA Antenna with gain -7.50 dBi <Ant. 2> : PIFA Antenna with gain -7.50 dBi						
Antenna Function Description	<table border="1"> <thead> <tr> <th></th> <th>Ant. 1</th> <th>Ant. 2</th> </tr> </thead> <tbody> <tr> <td>802.11 a/n/ac/ax MIMO</td> <td>V</td> <td>V</td> </tr> </tbody> </table>		Ant. 1	Ant. 2	802.11 a/n/ac/ax MIMO	V	V
	Ant. 1	Ant. 2					
802.11 a/n/ac/ax MIMO	V	V					

Note:

- For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing have assessed only 802.11n HT20/ HT40 by referring to their maximum conducted power.
- The EUT supports for MIMO mode only.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.



1.6 Testing Location

Sporton International (Shenzhen) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan, Shenzhen, 518055 People's Republic of China TEL: +86-755-86379589 FAX: +86-755-86379595		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	CO01-SZ TH01-SZ	CN1256	421272

Test Firm	Sporton International (Shenzhen) Inc.		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Province China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH01-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24
2.	CO01-SZ	AUDIX	E3	6.120613b



1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

1.9 Specification of Accessory

Specification of Accessory				
AC Adapter 1(US)	Brand Name	Motorola (Acbel)	Model Name	MC-301
AC Adapter 1(EU)	Brand Name	Motorola (Acbel)	Model Name	MC-302
AC Adapter 1(UK)	Brand Name	Motorola (Acbel)	Model Name	MC-303
AC Adapter 1(IN)	Brand Name	Motorola (Acbel)	Model Name	MC-304
AC Adapter 1(AU)	Brand Name	Motorola (Acbel)	Model Name	MC-305
AC Adapter 1(AR)	Brand Name	Motorola (Acbel)	Model Name	MC-306
AC Adapter 2(US)	Brand Name	Motorola (Salom)	Model Name	MC-301
AC Adapter 2(EU)	Brand Name	Motorola (Salom)	Model Name	MC-302
AC Adapter 2(UK)	Brand Name	Motorola (Salom)	Model Name	MC-303
AC Adapter 2(AU)	Brand Name	Motorola (Salom)	Model Name	MC-305
AC Adapter 2(AR)	Brand Name	Motorola (Salom)	Model Name	MC-306
AC Adapter 2(BR)	Brand Name	Motorola (Salom)	Model Name	MC-307
AC Adapter 2(BR)	Brand Name	Motorola (flex)	Model Name	MC-307
Battery	Brand Name	Motorola (ATL)	Model Name	MT45
Earphone	Brand Name	Motorola (Lyand)	Model Name	MD211(SH38D20195)
USB Cable 1	Brand Name	Motorola (Luxshare)	Model Name	SC18D13217
USB Cable 2	Brand Name	Motorola (Saibao)	Model Name	SC18D13215
USB Cable 3	Brand Name	Motorola (Cabletech)	Model Name	SC18D13216
HDMI Cable	Brand Name	Motorola (Linxee)	Model Name	SC18D02146



2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

- 1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40 and 802.11ax HE40
- 2. The above Frequency and Channel in "#n" were 802.11ac VHT80 and 802.11ax HE80



2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

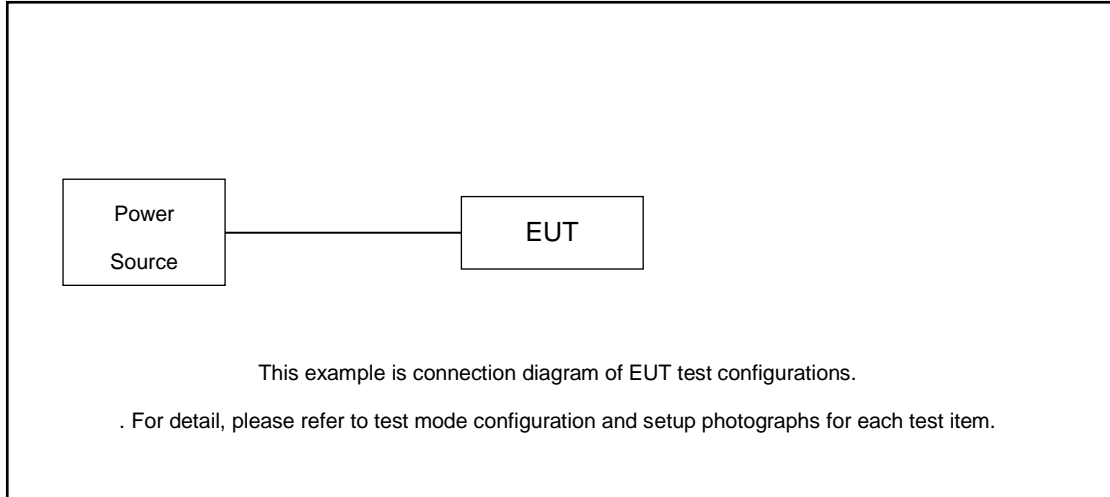
Test Cases	
AC Conducted Emission	Mode 1 : GSM 850 Idle + Bluetooth Link + WLAN Link(5G) + USB Cable1(Charging from Adapter2) + Battery
Remark: For Radiated Test Cases, The tests were performed with Adapter1, Battery and USB Cable1	

Ch. #		U-NII-3 : 5745-5825 MHz			
		802.11a	802.11n HT20	802.11n HT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

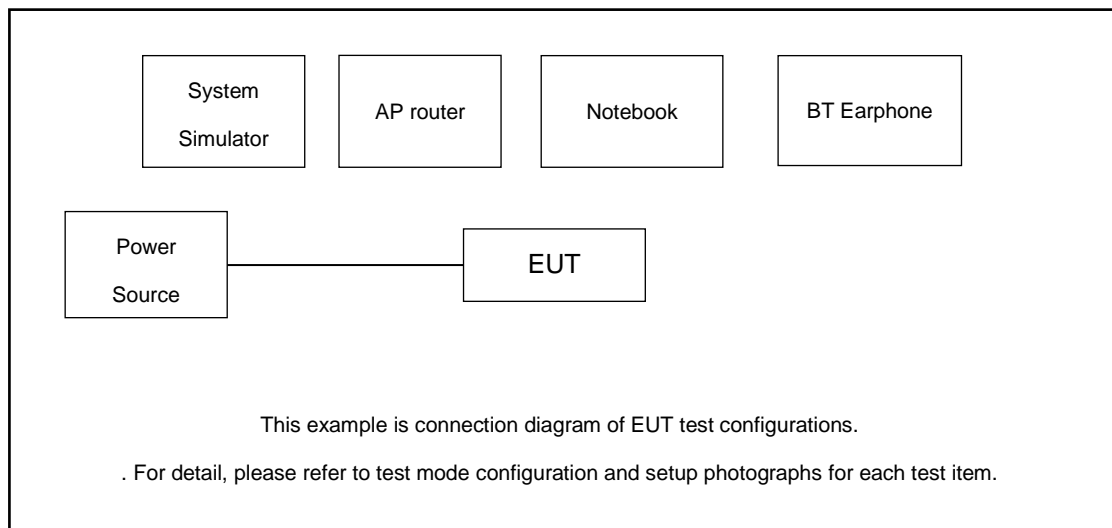
Ch. #		U-NII-3 : 5745-5825 MHz			
		-	802.11ax HE20	802.11ax HE40	802.11ax HE80
L	Low	-	149	151	-
M	Middle	-	157	-	155
H	High	-	165	159	-

2.3 Connection Diagram of Test System

For Radiated Emission



For Conducted Emission



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-Link	DIR-820L	KA2IR820LA1	N/A	Unshielded, 1.8m
3.	Notebook	DELL	Inspiron 15-7570	Fcc DoC	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Samsung	EO-MG900	N/A	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuously transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example :

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 2.8 dB and 20dB attenuator.

$$\begin{aligned}
 \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\
 &= 2.8 + 20 = 22.8 \text{ (dB)}
 \end{aligned}$$

3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

26dB and 99% Occupied bandwidth are reporting only.

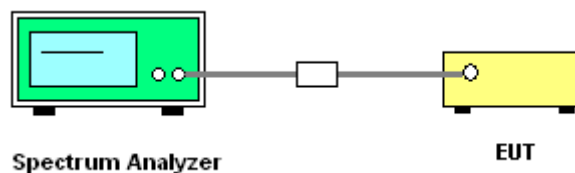
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

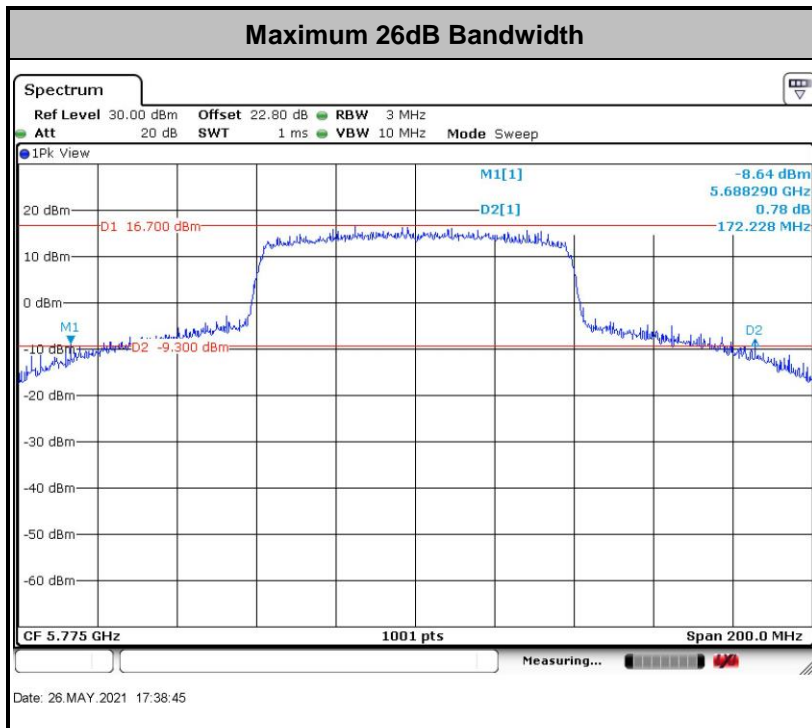
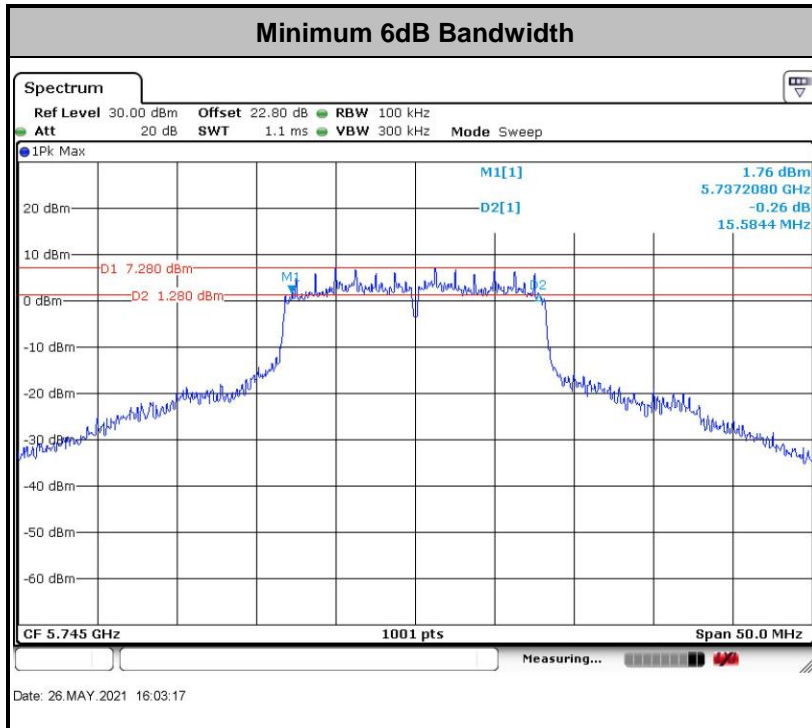
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section C) Emission bandwidth for the band 5.725-5.85GHz
2. Set RBW = 100kHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold
6. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.
7. Measure and record the results in the test report.

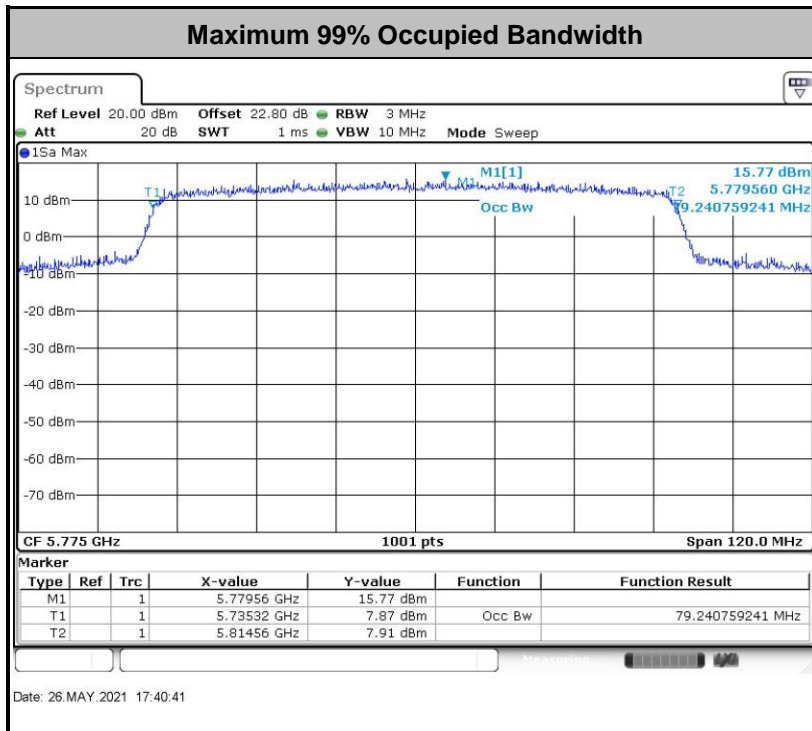
3.1.4 Test Setup



3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.





Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Maximum Conducted Output Power Measurement

3.2.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

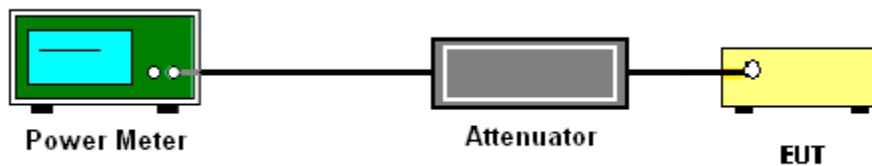
3.2.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor, $10 \log(1/x)$, where x is the duty cycle.

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.



3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

For the band 5.725–5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section F) Maximum power spectral density.

Method SA-2

(trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction).

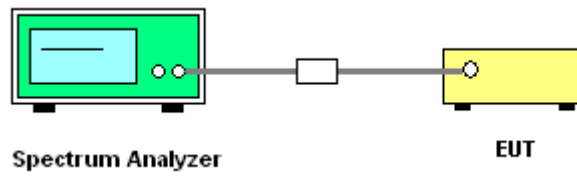
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz.
- Set VBW \geq 1 MHz.
- Number of points in sweep \geq 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Add $10 \log(500\text{kHz}/\text{RBW})$ to the test result.
- Add $10 \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times. For example, add $10 \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

1. The RF output of EUT was connected to the spectrum analyzer by a low loss cable.
2. Each plot has already offset with cable loss, and attenuator loss. Measure the PPSD and record it.
3. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

Method (c): Measure and add $10 \log(N_{\text{ANT}})$ dB.

With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ dB serves to apportion the emission limit among the N_{ANT} outputs so that each output is permitted to contribute no more than $1/N_{\text{ANT}}^{\text{th}}$ of the PSD limit.

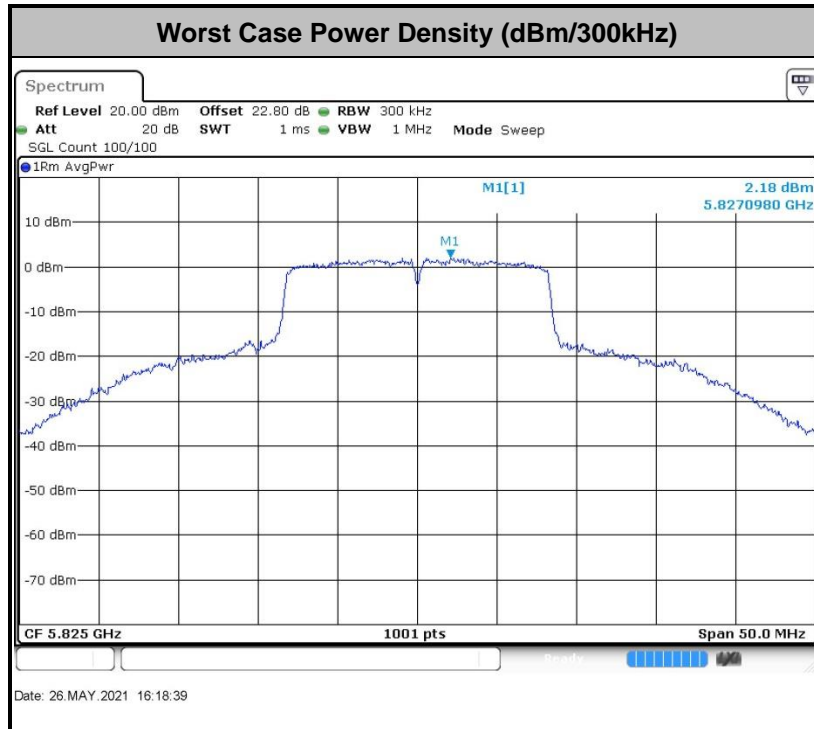
3.3.4 Test Setup





3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.





3.4 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.4.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.725-5.85 GHz band:
 15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency (MHz)	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 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3



EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

Note: The following formula is used to convert the EIRP to field strength.

$$EIRP = E_{Meas} + 20\log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

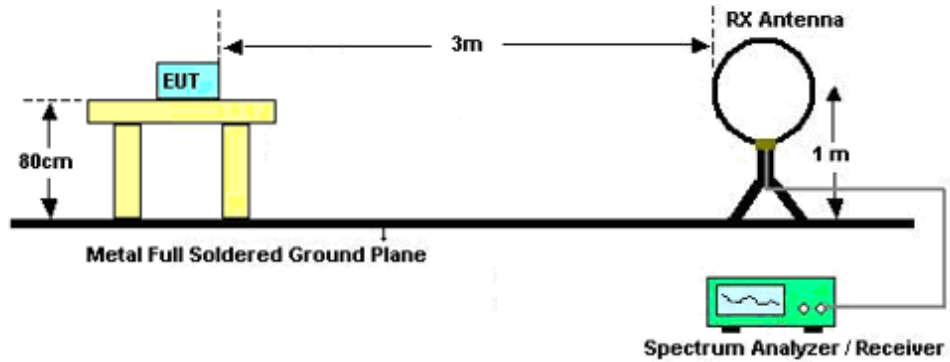


3.4.3 Test Procedures

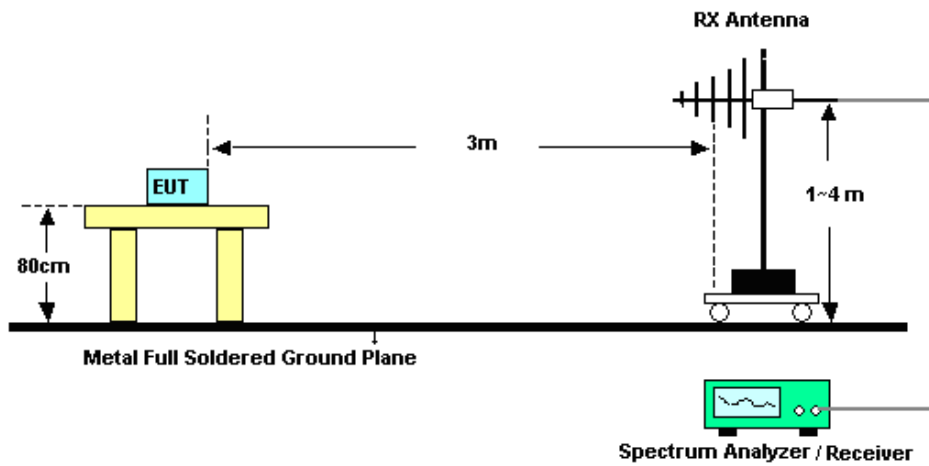
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW \geq 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.4.4 Test Setup

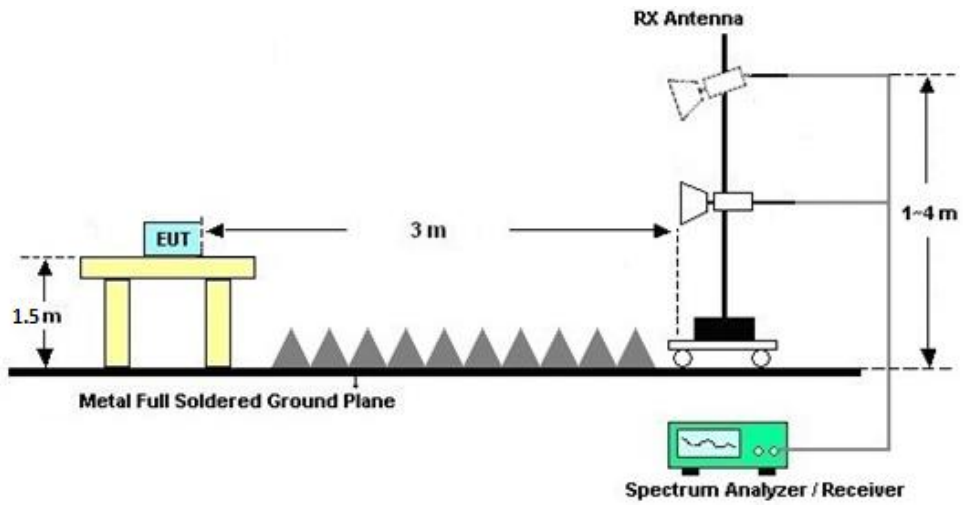
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





3.4.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.4.6 Test Result of Radiated Band Edges

Please refer to Appendix C.

3.4.7 Duty Cycle

Please refer to Appendix D.

3.4.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.



3.5 AC Conducted Emission Measurement

3.5.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dBµV)	
	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.

3.5.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.5.4 Test Setup



3.5.5 Test Result of AC Conducted Emission

Please refer to Appendix B.



3.6 Automatically Discontinue Transmission

3.6.1 Limit of Automatically Discontinue Transmission

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization to describe how this requirement is met.

3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Result of Automatically Discontinue Transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



3.7 Antenna Requirements

3.7.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain GANT is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
	Ant. 1 (dBi)	Ant. 2 (dBi)	DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
Band IV	-7.50	-7.50	-7.50	-4.49	0.00	0.00

Power Limit Reduction = DG(Power) – 6dBi, (min = 0)

PSD Limit Reduction = DG(PSD) – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	May 20, 2021~Jun. 15, 2021	Apr. 07, 2022	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1207253	30MHz~40GHz	Dec. 25, 2020	May 20, 2021~Jun. 15, 2021	Dec. 24, 2021	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Dec. 25, 2020	May 20, 2021~Jun. 15, 2021	Dec. 24, 2021	Conducted (TH01-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Jul. 21, 2020	Jun. 17, 2021	Jul. 20, 2021	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 21, 2020	Jun. 17, 2021	Jul. 20, 2021	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 22, 2020	Jun. 17, 2021	Jul. 21, 2021	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz-2GHz	Jul. 15, 2020	Jun. 17, 2021	Jul. 14, 2021	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 25, 2020	Jun. 17, 2021	Jul. 24, 2021	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 23, 2021	Jun. 17, 2021	Apr. 22, 2022	Radiation (03CH01-SZ)
LF Amplifier	Burgeon	BPA-530	102209	0.01~3000Mhz	Apr. 17, 2021	Jun. 17, 2021	Apr. 16, 2022	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 17, 2020	Jun. 17, 2021	Oct. 16, 2021	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 16, 2020	Jun. 17, 2021	Oct. 15, 2021	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 21, 2020	Jun. 17, 2021	Jul. 20, 2021	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Jun. 17, 2021	NCR	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Jun. 17, 2021	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Jun. 17, 2021	NCR	Radiation (03CH01-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Mar. 07, 2021	May 28, 2021	Mar. 06, 2022	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2 LISN	00103912	9kHz~30MHz	Dec. 25, 2020	May 28, 2021	Dec. 24, 2021	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 15, 2020	May 28, 2021	Oct. 14, 2021	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 21, 2020	May 28, 2021	Jul. 20, 2021	Conduction (CO01-SZ)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.2dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.2dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.0dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.3dB
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Appendix A. Conducted Test Results

Report Number : FR151407F

Test Engineer:	Chen Hong	Temperature:	21~25	°C
Test Date:	2021/5/20~2021/6/15	Relative Humidity:	51~54	%

TEST RESULTS DATA
Average Power Table

Band IV															
Mod.	Data Rate	NTx	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
						Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	Full	5745	0.03	0.03	16.29	16.38	19.35	30.00		-7.50	Pass	
11a	6Mbps	2	157	Full	5785	0.03	0.03	16.18	16.32	19.26	30.00		-7.50	Pass	
11a	6Mbps	2	165	Full	5825	0.03	0.03	16.27	16.36	19.33	30.00		-7.50	Pass	
HT20	MCS0	2	149	Full	5745	0.00	0.00	16.11	16.33	19.23	30.00		-7.50	Pass	
HT20	MCS0	2	157	Full	5785	0.00	0.00	16.13	16.27	19.21	30.00		-7.50	Pass	
HT20	MCS0	2	165	Full	5825	0.00	0.00	16.15	16.30	19.24	30.00		-7.50	Pass	
HT40	MCS0	2	151	Full	5755	0.00	0.00	16.40	16.76	19.59	30.00		-7.50	Pass	
HT40	MCS0	2	159	Full	5795	0.00	0.00	16.46	16.53	19.51	30.00		-7.50	Pass	
VHT20	MCS0	2	149	Full	5745	0.00	0.00	16.09	16.41	19.26	30.00		-7.50	Pass	
VHT20	MCS0	2	157	Full	5785	0.00	0.00	15.97	16.12	19.06	30.00		-7.50	Pass	
VHT20	MCS0	2	165	Full	5825	0.00	0.00	16.13	16.43	19.29	30.00		-7.50	Pass	
VHT40	MCS0	2	151	Full	5755	0.00	0.00	16.31	16.67	19.50	30.00		-7.50	Pass	
VHT40	MCS0	2	159	Full	5795	0.00	0.00	16.37	16.44	19.42	30.00		-7.50	Pass	
VHT80	MCS0	2	155	Full	5775	0.00	0.00	16.42	16.63	19.54	30.00		-7.50	Pass	
HE20	MCS0	2	149	Full	5745	0.00	0.00	16.17	16.40	19.30	30.00		-7.50	Pass	
HE20	MCS0	2	149	26/0	5745	0.00	0.00	8.25	8.44	11.36	30.00		-7.50	Pass	
HE20	MCS0	2	149	52/37	5745	0.00	0.00	11.33	11.28	14.32	30.00		-7.50	Pass	
HE20	MCS0	2	149	106/53	5745	0.00	0.00	14.55	14.58	17.58	30.00		-7.50	Pass	
HE20	MCS0	2	157	Full	5785	0.00	0.00	16.01	16.20	19.12	30.00		-7.50	Pass	
HE20	MCS0	2	165	Full	5825	0.00	0.00	16.11	16.45	19.29	30.00		-7.50	Pass	
HE20	MCS0	2	165	26/8	5825	0.00	0.00	7.88	7.91	10.91	30.00		-7.50	Pass	
HE20	MCS0	2	165	52/40	5825	0.00	0.00	10.66	10.96	13.82	30.00		-7.50	Pass	
HE20	MCS0	2	165	106/54	5825	0.00	0.00	13.51	13.77	16.65	30.00		-7.50	Pass	
HE40	MCS0	2	151	Full	5755	0.00	0.00	16.25	16.67	19.48	30.00		-7.50	Pass	
HE40	MCS0	2	151	242/61	5755	0.00	0.00	14.61	14.63	17.63	30.00		-7.50	Pass	
HE40	MCS0	2	159	Full	5795	0.00	0.00	16.31	16.44	19.39	30.00		-7.50	Pass	
HE40	MCS0	2	159	242/62	5795	0.00	0.00	14.81	14.58	17.71	30.00		-7.50	Pass	
HE80	MCS0	2	155	Full	5775	0.00	0.00	16.34	16.60	19.48	30.00		-7.50	Pass	
HE80	MCS0	2	155	484/65	5775	0.00	0.00	14.97	14.69	17.84	30.00		-7.50	Pass	
HE80	MCS0	2	155	484/66	5775	0.00	0.00	15.24	15.40	18.33	30.00		-7.50	Pass	

TEST RESULTS DATA
6dB and 26dB EBW and 99% OBW

Band IV													
Mod.	Data Rate	NTx	CH.	Freq. (MHz)	99% Bandwidth (MHz)		26dB Bandwidth (MHz)		6 dB Bandwidth (MHz)		6 dB Bandwidth Min. Limit (MHz)		Pass/Fail
					Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	5745	16.88	22.98	33.67	39.46	15.58	15.83	0.5	0.5	Pass
11a	6Mbps	2	157	5785	16.98	20.63	34.07	37.46	15.68	15.98	0.5	0.5	Pass
11a	6Mbps	2	165	5825	18.13	23.83	36.81	41.81	16.23	15.98	0.5	0.5	Pass
HT20	MCS0	2	149	5745	17.83	21.43	33.22	39.96	17.28	17.53	0.5	0.5	Pass
HT20	MCS0	2	157	5785	17.88	19.28	33.12	37.46	17.28	17.48	0.5	0.5	Pass
HT20	MCS0	2	165	5825	18.28	23.18	36.51	41.91	17.48	17.48	0.5	0.5	Pass
HT40	MCS0	2	151	5755	36.46	38.16	63.66	80.02	35.60	36.32	0.5	0.5	Pass
HT40	MCS0	2	159	5795	36.66	37.36	69.68	80.92	35.78	36.32	0.5	0.5	Pass
VHT80	MCS0	2	155	5775	76.84	77.32	129.31	171.06	75.13	75.13	0.5	0.5	Pass
HE20	MCS0	2	149	5745	19.03	19.33	26.57	38.32	18.43	18.38	0.5	0.5	Pass
HE20	MCS0	2	157	5785	18.93	19.33	26.22	34.97	18.63	17.63	0.5	0.5	Pass
HE20	MCS0	2	165	5825	19.03	19.43	32.12	38.91	18.38	17.98	0.5	0.5	Pass
HE40	MCS0	2	151	5755	38.16	39.26	54.76	80.02	37.85	37.85	0.5	0.5	Pass
HE40	MCS0	2	159	5795	38.26	39.06	65.81	79.03	37.94	37.58	0.5	0.5	Pass
HE80	MCS0	2	155	5775	78.64	79.24	127.87	172.23	77.36	75.13	0.5	0.5	Pass

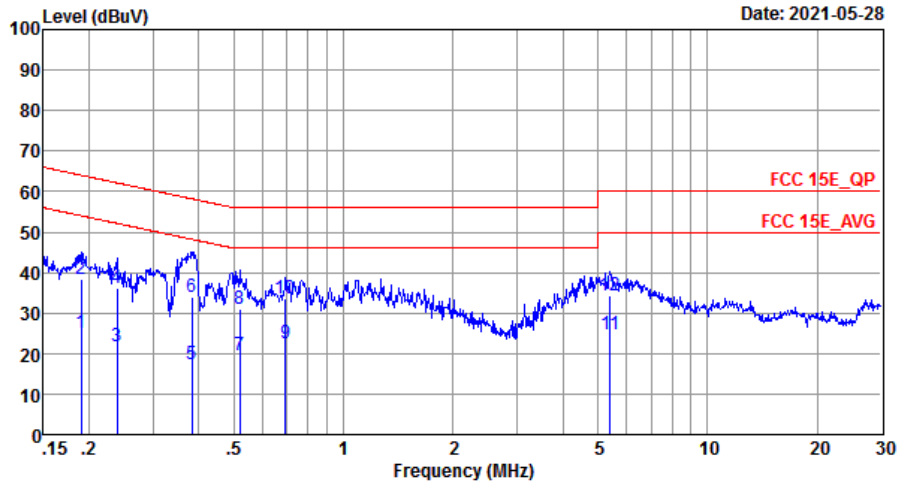
TEST RESULTS DATA
Power Spectral Density

Band IV																	
Mod.	Data Rate	NTx	CH.	RU Config	Freq. (MHz)	Duty Factor (dB)		10log (500kHz /RBW) Factor (dB)		Average Power Density (dBm/500kHz)			Average PSD Limit (dBm/500kHz)		DG (dBi)		Pass /Fail
						Ant 1	Ant 2	Ant 1	Ant 2	Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	149	Full	5745	0.03	0.03	2.22					7.28	30.00	-4.49		Pass
11a	6Mbps	2	157	Full	5785	0.03	0.03	2.22					7.22	30.00	-4.49		Pass
11a	6Mbps	2	165	Full	5825	0.03	0.03	2.22					7.44	30.00	-4.49		Pass
HT20	MCS0	2	149	Full	5745	0.00	0.00	2.22					6.90	30.00	-4.49		Pass
HT20	MCS0	2	157	Full	5785	0.00	0.00	2.22					6.62	30.00	-4.49		Pass
HT20	MCS0	2	165	Full	5825	0.00	0.00	2.22					6.83	30.00	-4.49		Pass
HT40	MCS0	2	151	Full	5755	0.00	0.00	2.22					3.64	30.00	-4.49		Pass
HT40	MCS0	2	159	Full	5795	0.00	0.00	2.22					3.33	30.00	-4.49		Pass
VHT80	MCS0	2	155	Full	5775	0.00	0.00	2.22					0.17	30.00	-4.49		Pass
HE20	MCS0	2	149	Full	5745	0.00	0.00	2.22					6.04	30.00	-4.49		Pass
HE20	MCS0	2	149	26/0	5745	0.00	0.00	2.22					5.58	30.00	-4.49		Pass
HE20	MCS0	2	149	52/37	5745	0.00	0.00	2.22					5.46	30.00	-4.49		Pass
HE20	MCS0	2	149	106/53	5745	0.00	0.00	2.22					5.78	30.00	-4.49		Pass
HE20	MCS0	2	157	Full	5785	0.00	0.00	2.22					5.92	30.00	-4.49		Pass
HE20	MCS0	2	165	Full	5825	0.00	0.00	2.22					5.88	30.00	-4.49		Pass
HE20	MCS0	2	165	26/8	5825	0.00	0.00	2.22					5.03	30.00	-4.49		Pass
HE20	MCS0	2	165	52/40	5825	0.00	0.00	2.22					5.09	30.00	-4.49		Pass
HE20	MCS0	2	165	106/54	5825	0.00	0.00	2.22					4.97	30.00	-4.49		Pass
HE40	MCS0	2	151	Full	5755	0.00	0.00	2.22					3.33	30.00	-4.49		Pass
HE40	MCS0	2	151	242/61	5755	0.00	0.00	2.22					2.34	30.00	-4.49		Pass
HE40	MCS0	2	159	Full	5795	0.00	0.00	2.22					3.21	30.00	-4.49		Pass
HE40	MCS0	2	159	242/62	5795	0.00	0.00	2.22					2.29	30.00	-4.49		Pass
HE80	MCS0	2	155	Full	5775	0.00	0.00	2.22					0.25	30.00	-4.49		Pass
HE80	MCS0	2	155	484/65	5775	0.00	0.00	2.22					-0.58	30.00	-4.49		Pass
HE80	MCS0	2	155	484/66	5775	0.00	0.00	2.22					-0.13	30.00	-4.49		Pass



Appendix B. AC Conducted Emission Test Results

Test Engineer :	Xie YuQiang	Temperature :	22~25°C
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



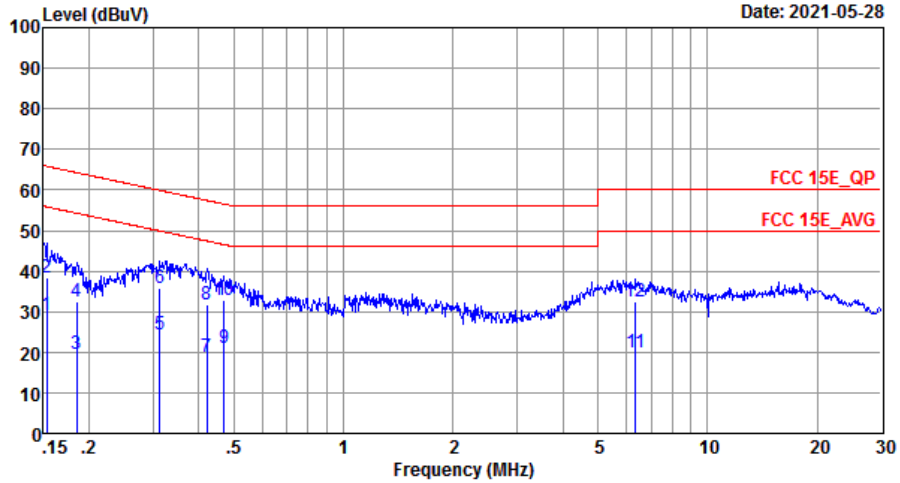
Site : CO01-SZ
 Condition: FCC 15E_QP LISN_20201030_L LINE

IMEI : 356368690019394/356368690019402

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.19	25.21	-28.81	54.02	15.10	0.08	10.03	Average
2	0.19	38.41	-25.61	64.02	28.30	0.08	10.03	QP
3	0.24	21.78	-30.35	52.13	11.70	0.05	10.03	Average
4	0.24	36.08	-26.05	62.13	26.00	0.05	10.03	QP
5	0.38	17.31	-30.90	48.21	7.20	0.07	10.04	Average
6	0.38	33.91	-24.30	58.21	23.80	0.07	10.04	QP
7	0.52	19.55	-26.45	46.00	9.40	0.10	10.05	Average
8	0.52	30.95	-25.05	56.00	20.80	0.10	10.05	QP
9	0.69	22.44	-23.56	46.00	12.30	0.10	10.04	Average
10 *	0.69	33.54	-22.46	56.00	23.40	0.10	10.04	QP
11	5.39	24.91	-25.09	50.00	14.60	0.03	10.28	Average
12	5.39	34.21	-25.79	60.00	23.90	0.03	10.28	QP



Test Engineer :	Xie YuQiang	Temperature :	22~25°C
		Relative Humidity :	50~55%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
 Condition: FCC 15E_QP LISN_20201030_N NEUTRAL

IMEI : 356368690019394/356368690019402

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	29.29	-26.53	55.82	19.20	0.08	10.01	Average
2	0.15	38.49	-27.33	65.82	28.40	0.08	10.01	QP
3	0.19	19.40	-34.84	54.24	9.30	0.08	10.02	Average
4	0.19	32.30	-31.94	64.24	22.20	0.08	10.02	QP
5	0.31	24.46	-25.42	49.88	14.40	0.02	10.04	Average
6	0.31	35.76	-24.12	59.88	25.70	0.02	10.04	QP
7	0.42	18.93	-28.49	47.42	8.80	0.08	10.05	Average
8	0.42	31.73	-25.69	57.42	21.60	0.08	10.05	QP
9	0.47	20.94	-25.55	46.49	10.80	0.09	10.05	Average
10 *	0.47	32.94	-23.55	56.49	22.80	0.09	10.05	QP
11	6.35	19.79	-30.21	50.00	9.50	0.06	10.23	Average
12	6.35	32.39	-27.61	60.00	22.10	0.06	10.23	QP

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



Appendix C. Radiated Spurious Emission

5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5623.4	49.36	-18.94	68.3	38.1	31.59	12.27	32.6	260	360	P	H
		5699.8	63.09	-41.96	105.05	51.62	31.78	12.29	32.6	260	360	P	H
		5720	74.47	-36.33	110.8	62.87	31.91	12.29	32.6	260	360	P	H
		5724.6	85.25	-36.04	121.29	73.65	31.91	12.29	32.6	260	360	P	H
		5745	112.49	-	-	100.82	31.97	12.3	32.6	260	360	P	H
		5745	106.35	-	-	94.68	31.97	12.3	32.6	260	360	A	H
		5647.6	50.01	-18.29	68.3	38.73	31.6	12.28	32.6	246	333	P	V
		5700	63	-42.2	105.2	51.53	31.78	12.29	32.6	246	333	P	V
		5716.4	70.79	-39	109.79	59.25	31.85	12.29	32.6	246	333	P	V
		5725	82.59	-39.61	122.2	70.98	31.91	12.3	32.6	246	333	P	V
		5745	110.45	-	-	98.78	31.97	12.3	32.6	246	333	P	V
		5745	104.53	-	-	92.86	31.97	12.3	32.6	246	333	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 157 5785MHz		5643.6	50.18	-18.12	68.3	38.9	31.6	12.28	32.6	249	356	P	H
		5674.2	50.21	-35.99	86.2	38.81	31.72	12.28	32.6	249	356	P	H
		5712	51.58	-56.98	108.56	40.04	31.85	12.29	32.6	249	356	P	H
		5724	53.36	-66.56	119.92	41.76	31.91	12.29	32.6	249	356	P	H
		5785	113.08	-	-	101.28	32.09	12.31	32.6	249	356	P	H
		5785	106.98	-	-	95.18	32.09	12.31	32.6	249	356	A	H
		5850	51.76	-70.44	122.2	39.7	32.34	12.32	32.6	249	356	P	H
		5860	51.88	-57.52	109.4	39.76	32.4	12.32	32.6	249	356	P	H
		5909.4	51.27	-28.51	79.78	39.04	32.5	12.33	32.6	249	356	P	H
		5929.8	49.59	-18.71	68.3	37.32	32.53	12.34	32.6	249	356	P	H
		5637.2	50.34	-17.96	68.3	39.06	31.6	12.28	32.6	212	330	P	V
		5699	49.92	-54.55	104.47	38.45	31.78	12.29	32.6	212	330	P	V
		5720	51.86	-58.94	110.8	40.26	31.91	12.29	32.6	212	330	P	V
		5724.2	51.73	-68.65	120.38	40.13	31.91	12.29	32.6	212	330	P	V
		5785	112.64	-	-	100.84	32.09	12.31	32.6	212	330	P	V
		5785	106.59	-	-	94.79	32.09	12.31	32.6	212	330	A	V
		5852.8	50.16	-65.66	115.82	38.1	32.34	12.32	32.6	212	330	P	V
		5857.6	51.83	-58.24	110.07	39.71	32.4	12.32	32.6	212	330	P	V
		5902	49.97	-35.27	85.24	37.77	32.47	12.33	32.6	212	330	P	V
		5932.6	51	-17.3	68.3	38.73	32.53	12.34	32.6	212	330	P	V



WiFi Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 165 5825MHz		5825	113.56	-	-	101.56	32.28	12.32	32.6	236	359	P	H
		5825	107.52	-	-	95.52	32.28	12.32	32.6	236	359	A	H
		5850.2	80.08	-41.66	121.74	68.02	32.34	12.32	32.6	236	359	P	H
		5855.4	74.45	-36.24	110.69	62.33	32.4	12.32	32.6	236	359	P	H
		5877.8	62.17	-40.96	103.13	50.01	32.43	12.33	32.6	236	359	P	H
		5942.2	51.35	-16.95	68.3	39.05	32.56	12.34	32.6	236	359	P	H
		5825	114.08	-	-	102.08	32.28	12.32	32.6	240	339	P	V
		5825	108.01	-	-	96.01	32.28	12.32	32.6	240	339	A	V
		5850.6	75.63	-45.2	120.83	63.57	32.34	12.32	32.6	240	339	P	V
		5856	71.87	-38.65	110.52	59.75	32.4	12.32	32.6	240	339	P	V
		5876.4	60.8	-43.36	104.16	48.64	32.43	12.33	32.6	240	339	P	V
		5929.4	50.54	-17.76	68.3	38.27	32.53	12.34	32.6	240	339	P	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 149 5745MHz		11490	50.12	-23.88	74	43.42	41.18	16.53	51.01	160	360	P	H
		17235	50.74	-17.56	68.3	43.29	42.4	18.46	53.41	170	360	P	H
		11490	50.98	-23.02	74	44.28	41.18	16.53	51.01	160	360	P	V
		17235	49.92	-18.38	68.3	42.47	42.4	18.46	53.41	170	360	P	V
802.11a CH 157 5785MHz		11570	50.75	-23.25	74	44.21	40.98	16.55	50.99	175	198	P	H
		17355	51.86	-16.44	68.3	43.58	43.1	18.5	53.32	189	185	P	H
		11570	50.09	-23.91	74	43.55	40.98	16.55	50.99	175	198	P	V
		17355	51.27	-17.03	68.3	42.99	43.1	18.5	53.32	189	185	P	V
802.11a CH 165 5825MHz		11650	50.43	-23.57	74	44.07	40.76	16.57	50.97	156	347	P	H
		17475	50	-18.3	68.3	40.88	43.8	18.55	53.23	150	360	P	H
		11650	50.66	-23.34	74	44.3	40.76	16.57	50.97	156	347	P	V
		17475	50.93	-17.37	68.3	41.81	43.8	18.55	53.23	150	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 149 5745MHz		5642.4	49.68	-18.62	68.3	38.4	31.6	12.28	32.6	259	355	P	H
		5697	61.49	-41.51	103	50.02	31.78	12.29	32.6	259	355	P	H
		5718.2	72.71	-37.59	110.3	61.11	31.91	12.29	32.6	259	355	P	H
		5724.8	82.44	-39.3	121.74	70.84	31.91	12.29	32.6	259	355	P	H
		5745	115.18	-	-	103.51	31.97	12.3	32.6	259	355	P	H
		5745	109.13	-	-	97.46	31.97	12.3	32.6	259	355	A	H
		5637.4	50.07	-18.23	68.3	38.79	31.6	12.28	32.6	231	333	P	V
		5698.6	57.59	-46.58	104.17	46.12	31.78	12.29	32.6	231	333	P	V
		5717.4	72.99	-37.08	110.07	61.45	31.85	12.29	32.6	231	333	P	V
		5725	79.3	-42.9	122.2	67.69	31.91	12.3	32.6	231	333	P	V
		5745	112	-	-	100.33	31.97	12.3	32.6	231	333	P	V
		5745	106.03	-	-	94.36	31.97	12.3	32.6	231	333	A	V



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 157 5785MHz		5640	49.32	-18.98	68.3	38.04	31.6	12.28	32.6	260	354	P	H
		5700	52.46	-52.74	105.2	40.99	31.78	12.29	32.6	260	354	P	H
		5700	52.46	-52.74	105.2	40.99	31.78	12.29	32.6	260	354	P	H
		5722.8	51.95	-65.23	117.18	40.35	31.91	12.29	32.6	260	354	P	H
		5785	112.92	-	-	101.12	32.09	12.31	32.6	260	354	P	H
		5785	106.93	-	-	95.13	32.09	12.31	32.6	260	354	A	H
		5853.8	50.98	-62.56	113.54	38.86	32.4	12.32	32.6	260	354	P	H
		5855	50.48	-60.32	110.8	38.36	32.4	12.32	32.6	260	354	P	H
		5903	51.54	-32.96	84.5	39.34	32.47	12.33	32.6	260	354	P	H
		5943	51.51	-16.79	68.3	39.21	32.56	12.34	32.6	260	354	P	H
		5623.6	49.89	-18.41	68.3	38.63	31.59	12.27	32.6	239	340	P	V
		5672.4	50.45	-34.42	84.87	39.05	31.72	12.28	32.6	239	340	P	V
		5717.4	51.27	-58.8	110.07	39.73	31.85	12.29	32.6	239	340	P	V
		5720.8	51.94	-60.68	112.62	40.34	31.91	12.29	32.6	239	340	P	V
		5785	113.37	-	-	101.57	32.09	12.31	32.6	239	340	P	V
		5785	107.29	-	-	95.49	32.09	12.31	32.6	239	340	A	V
		5852	52.53	-65.11	117.64	40.47	32.34	12.32	32.6	239	340	P	V
		5857.8	52.03	-57.98	110.01	39.91	32.4	12.32	32.6	239	340	P	V
	5883	50.88	-48.39	99.27	38.72	32.43	12.33	32.6	239	340	P	V	
	5947.2	51.09	-17.21	68.3	38.79	32.56	12.34	32.6	239	340	P	V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 165 5825MHz		5825	112.67	-	-	100.67	32.28	12.32	32.6	267	29	P	H
		5825	105.16	-	-	93.16	32.28	12.32	32.6	267	29	A	H
		5850	73.56	-48.64	122.2	61.5	32.34	12.32	32.6	267	29	P	H
		5860	64.61	-44.79	109.4	52.49	32.4	12.32	32.6	267	29	P	H
		5876.6	53.9	-50.11	104.01	41.74	32.43	12.33	32.6	267	29	P	H
		5933	49.69	-18.61	68.3	37.42	32.53	12.34	32.6	267	29	P	H
		5825	112.81	-	-	100.81	32.28	12.32	32.6	271	360	P	V
		5825	104.26	-	-	92.26	32.28	12.32	32.6	271	360	A	V
		5852.6	67.15	-49.12	116.27	55.09	32.34	12.32	32.6	271	360	P	V
		5855.6	67.59	-43.04	110.63	55.47	32.4	12.32	32.6	271	360	P	V
		5879.6	52.75	-49.04	101.79	40.59	32.43	12.33	32.6	271	360	P	V
	5944.8	50.37	-17.93	68.3	38.07	32.56	12.34	32.6	271	360	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



5725~5850MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20		11490	50.53	-23.47	74	43.83	41.18	16.53	51.01	160	360	P	H
		17235	50	-18.3	68.3	42.55	42.4	18.46	53.41	170	360	P	H
CH 149 5745MHz		11490	50.19	-23.81	74	43.49	41.18	16.53	51.01	160	360	P	V
		17235	50.38	-17.92	68.3	42.93	42.4	18.46	53.41	170	360	P	V
802.11n HT20		11570	50.12	-23.88	74	43.58	40.98	16.55	50.99	175	198	P	H
		17355	50.23	-18.07	68.3	41.95	43.1	18.5	53.32	189	185	P	H
CH 157 5785MHz		11570	50.71	-23.29	74	44.17	40.98	16.55	50.99	175	198	P	V
		17355	50.63	-17.67	68.3	42.35	43.1	18.5	53.32	189	185	P	V
802.11n HT20		11650	50.09	-23.91	74	43.73	40.76	16.57	50.97	156	347	P	H
		17475	49.99	-18.31	68.3	40.87	43.8	18.55	53.23	150	360	P	H
CH 165 5825MHz		11650	50.72	-23.28	74	44.36	40.76	16.57	50.97	156	347	P	V
		17475	51.18	-17.12	68.3	42.06	43.8	18.55	53.23	150	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 151 5755MHz		5647.6	52.45	-15.85	68.3	41.17	31.6	12.28	32.6	267	32	P	H
		5699.8	65.3	-39.75	105.05	53.83	31.78	12.29	32.6	267	32	P	H
		5718.8	81.58	-28.88	110.46	69.98	31.91	12.29	32.6	267	32	P	H
		5721.2	83.71	-29.83	113.54	72.11	31.91	12.29	32.6	267	32	P	H
		5755	109.69	-	-	97.96	32.03	12.3	32.6	267	32	P	H
		5755	102.97	-	-	91.24	32.03	12.3	32.6	267	32	A	H
		5852.4	52.01	-64.72	116.73	39.95	32.34	12.32	32.6	267	32	P	H
		5864.4	51.67	-56.5	108.17	39.55	32.4	12.32	32.6	267	32	P	H
		5875.4	51.33	-53.57	104.9	39.17	32.43	12.33	32.6	267	32	P	H
		5948.6	50.2	-18.1	68.3	37.9	32.56	12.34	32.6	267	32	P	H
		5635.2	51.56	-16.74	68.3	40.28	31.6	12.28	32.6	272	359	P	V
		5694.2	63.42	-37.52	100.94	51.95	31.78	12.29	32.6	272	359	P	V
		5719.4	76.27	-34.36	110.63	64.67	31.91	12.29	32.6	272	359	P	V
		5723	79.47	-38.17	117.64	67.87	31.91	12.29	32.6	272	359	P	V
		5755	108.27	-	-	96.54	32.03	12.3	32.6	272	359	P	V
		5755	101.81	-	-	90.08	32.03	12.3	32.6	272	359	A	V
		5853.8	51.52	-62.02	113.54	39.4	32.4	12.32	32.6	272	359	P	V
		5864.4	50.35	-57.82	108.17	38.23	32.4	12.32	32.6	272	359	P	V
	5923.2	50.28	-19.34	69.62	38.02	32.53	12.33	32.6	272	359	P	V	
	5932	50.79	-17.51	68.3	38.52	32.53	12.34	32.6	272	359	P	V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 159 5795MHz		5642.6	50.91	-17.39	68.3	39.63	31.6	12.28	32.6	269	28	P	H
		5698.8	58.19	-46.13	104.32	46.72	31.78	12.29	32.6	269	28	P	H
		5715.8	59.58	-50.05	109.63	48.04	31.85	12.29	32.6	269	28	P	H
		5720.8	63.23	-49.39	112.62	51.63	31.91	12.29	32.6	269	28	P	H
		5795	108.31	-	-	96.45	32.15	12.31	32.6	269	28	P	H
		5795	101.98	-	-	90.12	32.15	12.31	32.6	269	28	A	H
		5851	63.41	-56.51	119.92	51.35	32.34	12.32	32.6	269	28	P	H
		5855.4	60.41	-50.28	110.69	48.29	32.4	12.32	32.6	269	28	P	H
		5880.6	58.34	-42.71	101.05	46.18	32.43	12.33	32.6	269	28	P	H
		5934.4	51.27	-17.03	68.3	39	32.53	12.34	32.6	269	28	P	H
		5649.6	50.08	-18.22	68.3	38.74	31.66	12.28	32.6	271	360	P	V
		5689.4	53.39	-44.01	97.4	41.92	31.78	12.29	32.6	271	360	P	V
		5719.6	59.33	-51.36	110.69	47.73	31.91	12.29	32.6	271	360	P	V
		5721.2	59.79	-53.75	113.54	48.19	31.91	12.29	32.6	271	360	P	V
		5795	107.89	-	-	96.03	32.15	12.31	32.6	271	360	P	V
		5795	101.64	-	-	89.78	32.15	12.31	32.6	271	360	A	V
		5853.8	63.27	-50.27	113.54	51.15	32.4	12.32	32.6	271	360	P	V
		5856.4	60.78	-49.63	110.41	48.66	32.4	12.32	32.6	271	360	P	V
	5876.2	53.96	-50.35	104.31	41.8	32.43	12.33	32.6	271	360	P	V	
	5932.4	50.15	-18.15	68.3	37.88	32.53	12.34	32.6	271	360	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		11510	50.59	-23.41	74	24.96	41.2	16.53	32.1	162	360	P	H
HT40		17265	49.84	-18.46	68.3	42.16	42.6	18.47	53.39	170	360	P	H
CH 151		11510	50.77	-23.23	74	44.04	41.2	16.53	51	160	360	P	V
5755MHz		17265	50.97	-17.33	68.3	43.29	42.6	18.47	53.39	170	360	P	V
802.11n		11590	50.28	-23.72	74	43.78	40.92	16.56	50.98	170	300	P	H
HT40		17385	50.38	-17.92	68.3	41.86	43.3	18.51	53.29	150	200	P	H
CH 159		11590	50.26	-23.74	74	43.76	40.92	16.56	50.98	170	300	P	V
5795MHz		17385	50.95	-17.35	68.3	42.43	43.3	18.51	53.29	150	200	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 155 5775MHz		5645.6	63.51	-4.79	68.3	52.23	31.6	12.28	32.6	258	35	P	H
		5700	73.39	-31.81	105.2	61.92	31.78	12.29	32.6	258	35	P	H
		5716.6	78.22	-31.63	109.85	66.68	31.85	12.29	32.6	258	35	P	H
		5724	77.63	-42.29	119.92	66.03	31.91	12.29	32.6	258	35	P	H
		5775	106.2	-	-	94.4	32.09	12.31	32.6	258	35	P	H
		5775	99.39	-	-	87.59	32.09	12.31	32.6	258	35	A	H
		5850.6	73.57	-47.26	120.83	61.51	32.34	12.32	32.6	258	35	P	H
		5861.2	73.15	-35.91	109.06	61.03	32.4	12.32	32.6	258	35	P	H
		5875.6	66.94	-37.82	104.76	54.78	32.43	12.33	32.6	258	35	P	H
		5926.4	54.62	-13.68	68.3	42.35	32.53	12.34	32.6	258	35	P	H
		5644.2	65.03	-3.27	68.3	53.75	31.6	12.28	32.6	271	21	P	V
		5699.6	76.1	-28.81	104.91	64.63	31.78	12.29	32.6	271	21	P	V
		5712.2	82.91	-25.71	108.62	71.37	31.85	12.29	32.6	271	21	P	V
		5724.2	82.07	-38.31	120.38	70.47	31.91	12.29	32.6	271	21	P	V
		5775	107.72	-	-	95.92	32.09	12.31	32.6	271	21	P	V
		5775	100.69	-	-	88.89	32.09	12.31	32.6	271	21	A	V
		5853.4	78.99	-35.46	114.45	66.93	32.34	12.32	32.6	271	21	P	V
		5857.8	75.98	-34.03	110.01	63.86	32.4	12.32	32.6	271	21	P	V
	5876.2	70.68	-33.63	104.31	58.52	32.43	12.33	32.6	271	21	P	V	
	5932	60.15	-8.15	68.3	47.88	32.53	12.34	32.6	271	21	P	V	

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac		11550	50.82	-23.18	74	44.24	41.03	16.54	50.99	160	360	P	H
VHT80		17325	50.59	-17.71	68.3	42.55	42.9	18.49	53.35	170	360	P	H
CH 155		11550	50.01	-23.99	74	43.43	41.03	16.54	50.99	160	360	P	V
5775MHz		17325	50.82	-17.48	68.3	42.78	42.9	18.49	53.35	170	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz
WIFI 802.11ac VHT80 (LF @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ac VHT80 CH 155 5775MHz LF		30	22.92	-17.08	40	29.59	25.2	0.53	32.4	-	-	P	H
		127.97	18.37	-25.13	43.5	31.61	17.8	1.16	32.2	-	-	P	H
		182.29	28.66	-14.84	43.5	44.52	14.9	1.38	32.14	100	119	P	H
		242.43	28.55	-17.45	46	41.17	17.6	1.62	31.84	-	-	P	H
		557.68	28.64	-17.36	46	30.64	26.38	2.48	30.86	-	-	P	H
		982.54	33.19	-20.81	54	30.19	30.9	3.28	31.18	-	-	P	H
		30	27.19	-12.81	40	33.86	25.2	0.53	32.4	-	-	P	V
		94.02	22.12	-21.38	43.5	37.85	15.4	0.97	32.1	-	-	P	V
		167.74	32.27	-11.23	43.5	47.21	15.9	1.32	32.16	100	168	P	V
		242.43	29.4	-16.6	46	42.02	17.6	1.62	31.84	-	-	P	V
		450.01	26.14	-19.86	46	32.14	23.1	2.2	31.3	-	-	P	V
	958.29	33.09	-12.91	46	30.1	31.16	3.24	31.41	-	-	P	V	
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Full RU:

5725~5850MHz

WIFI 802.11ax HE20_Full (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Full CH 149 5745MHz		5641.6	49.81	-18.49	68.3	38.53	31.6	12.28	32.6	227	51	P	H
		5699.6	58.69	-46.22	104.91	47.22	31.78	12.29	32.6	227	51	P	H
		5720	74.41	-36.39	110.8	62.81	31.91	12.29	32.6	227	51	P	H
		5725	78.78	-43.42	122.2	67.17	31.91	12.3	32.6	227	51	P	H
		5745	115.58	-	-	103.91	31.97	12.3	32.6	227	51	P	H
		5745	109.35	-	-	97.68	31.97	12.3	32.6	227	51	A	H
		5646.2	49.8	-18.5	68.3	38.52	31.6	12.28	32.6	235	7	P	V
		5695.6	54.23	-47.74	101.97	42.76	31.78	12.29	32.6	235	7	P	V
		5720	69.79	-41.01	110.8	58.19	31.91	12.29	32.6	235	7	P	V
		5724.2	79.28	-41.1	120.38	67.68	31.91	12.29	32.6	235	7	P	V
	5745	111.11	-	-	99.44	31.97	12.3	32.6	235	7	P	V	
	5745	108.05	-	-	96.38	31.97	12.3	32.6	235	7	A	V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 157 5785MHz		5623.6	49.17	-19.13	68.3	37.91	31.59	12.27	32.6	233	45	P	H
		5678.6	50.54	-38.91	89.45	39.13	31.72	12.29	32.6	233	45	P	H
		5717.4	52.03	-58.04	110.07	40.49	31.85	12.29	32.6	233	45	P	H
		5720.6	51.87	-60.3	112.17	40.27	31.91	12.29	32.6	233	45	P	H
		5785	114.66	-	-	102.86	32.09	12.31	32.6	233	45	P	H
		5785	107.02	-	-	95.22	32.09	12.31	32.6	233	45	A	H
		5852.6	52.48	-63.79	116.27	40.42	32.34	12.32	32.6	233	45	P	H
		5863	51.31	-57.25	108.56	39.19	32.4	12.32	32.6	233	45	P	H
		5897.8	50.37	-37.96	88.33	38.17	32.47	12.33	32.6	233	45	P	H
		5945	50.02	-18.28	68.3	37.72	32.56	12.34	32.6	233	45	P	H
		5631.6	50.14	-18.16	68.3	38.87	31.59	12.28	32.6	259	6	P	V
		5653.6	50.23	-20.74	70.97	38.89	31.66	12.28	32.6	259	6	P	V
		5715.4	50.12	-59.39	109.51	38.58	31.85	12.29	32.6	259	6	P	V
		5721.8	50.03	-64.87	114.9	38.43	31.91	12.29	32.6	259	6	P	V
		5785	111.81	-	-	100.01	32.09	12.31	32.6	259	6	P	V
		5785	105.85	-	-	94.05	32.09	12.31	32.6	259	6	A	V
		5853.2	49.58	-65.32	114.9	37.52	32.34	12.32	32.6	259	6	P	V
		5871.6	49.96	-56.19	106.15	37.81	32.43	12.32	32.6	259	6	P	V
	5924.8	51.65	-16.8	68.45	39.39	32.53	12.33	32.6	259	6	P	V	
	5946.8	50.46	-17.84	68.3	38.16	32.56	12.34	32.6	259	6	P	V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Full CH 165 5825MHz		5825	114.11	-	-	102.11	32.28	12.32	32.6	242	37	P	H
		5825	108.11	-	-	96.11	32.28	12.32	32.6	242	37	A	H
		5850	76.76	-45.44	122.2	64.7	32.34	12.32	32.6	242	37	P	H
		5863.4	66.38	-42.07	108.45	54.26	32.4	12.32	32.6	242	37	P	H
		5875.8	54.14	-50.47	104.61	41.98	32.43	12.33	32.6	242	37	P	H
		5940	51.13	-17.17	68.3	38.83	32.56	12.34	32.6	242	37	P	H
		5825	112.85	-	-	100.85	32.28	12.32	32.6	266	2	P	V
		5825	106.76	-	-	94.76	32.28	12.32	32.6	266	2	A	V
		5854.4	70.02	-42.15	112.17	57.9	32.4	12.32	32.6	266	2	P	V
		5855.8	66.38	-44.2	110.58	54.26	32.4	12.32	32.6	266	2	P	V
		5877.4	54.87	-48.55	103.42	42.71	32.43	12.33	32.6	266	2	P	V
		5943.8	49.98	-18.32	68.3	37.68	32.56	12.34	32.6	266	2	P	V
Remark	<ol style="list-style-type: none"> No other spurious found. All results are PASS against Peak and Average limit line. 												



5725~5850MHz

WIFI 802.11ax HE20 Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		11490	50.31	-23.69	74	43.61	41.18	16.53	51.01	160	360	P	H
HE20 Full		17235	50.03	-18.27	68.3	42.58	42.4	18.46	53.41	170	360	P	H
CH 149		11490	50.24	-23.76	74	43.54	41.18	16.53	51.01	160	360	P	V
5745MHz		17235	50.3	-18	68.3	42.85	42.4	18.46	53.41	170	360	P	V
802.11ax		11570	50.92	-23.08	74	44.38	40.98	16.55	50.99	175	198	P	H
HE20 Full		17355	51.9	-16.4	68.3	43.62	43.1	18.5	53.32	189	185	P	H
CH 157		11570	50.53	-23.47	74	43.99	40.98	16.55	50.99	175	198	P	V
5785MHz		17355	51.9	-16.4	68.3	43.62	43.1	18.5	53.32	189	185	P	V
802.11ax		11650	50.7	-23.3	74	44.34	40.76	16.57	50.97	156	347	P	H
HE20 Full		17475	52.33	-15.97	68.3	43.21	43.8	18.55	53.23	150	360	P	H
CH 165		11650	50.23	-23.77	74	43.87	40.76	16.57	50.97	156	347	P	V
5825MHz		17475	52.57	-15.73	68.3	43.45	43.8	18.55	53.23	150	360	P	V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



5725~5850MHz

WIFI 802.11ax HE40_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 151 5755MHz		5646.6	55.65	-12.65	68.3	44.37	31.6	12.28	32.6	242	50	P	H
		5699.2	69.91	-34.7	104.61	58.44	31.78	12.29	32.6	242	50	P	H
		5719.2	83.56	-27.02	110.58	71.96	31.91	12.29	32.6	242	50	P	H
		5724	82.49	-37.43	119.92	70.89	31.91	12.29	32.6	242	50	P	H
		5755	111.37	-	-	99.64	32.03	12.3	32.6	242	50	P	H
		5755	105.35	-	-	93.62	32.03	12.3	32.6	242	50	A	H
		5850.2	56.85	-64.89	121.74	44.79	32.34	12.32	32.6	242	50	P	H
		5860.6	53.57	-55.66	109.23	41.45	32.4	12.32	32.6	242	50	P	H
		5882.2	51.3	-48.57	99.87	39.14	32.43	12.33	32.6	242	50	P	H
		5925.6	50.2	-18.1	68.3	37.93	32.53	12.34	32.6	242	50	P	H
		5643.4	52.36	-15.94	68.3	41.08	31.6	12.28	32.6	244	4	P	V
		5693.8	65.76	-34.88	100.64	54.29	31.78	12.29	32.6	244	4	P	V
		5715	75.56	-33.84	109.4	64.02	31.85	12.29	32.6	244	4	P	V
		5724.6	80.33	-40.96	121.29	68.73	31.91	12.29	32.6	244	4	P	V
		5755	108.08	-	-	96.35	32.03	12.3	32.6	244	4	P	V
		5755	102.05	-	-	90.32	32.03	12.3	32.6	244	4	A	V
		5854.6	53.34	-58.37	111.71	41.22	32.4	12.32	32.6	244	4	P	V
		5855.8	52.97	-57.61	110.58	40.85	32.4	12.32	32.6	244	4	P	V
		5892.6	50.69	-41.49	92.18	38.49	32.47	12.33	32.6	244	4	P	V
	5943.4	50.57	-17.73	68.3	38.27	32.56	12.34	32.6	244	4	P	V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Full CH 159 5795MHz		5601.4	50.36	-17.94	68.3	39.11	31.58	12.27	32.6	258	10	P	H
		5696	54.73	-47.53	102.26	43.26	31.78	12.29	32.6	258	10	P	H
		5712.2	58.99	-49.63	108.62	47.45	31.85	12.29	32.6	258	10	P	H
		5723.8	62.76	-56.7	119.46	51.16	31.91	12.29	32.6	258	10	P	H
		5795	108.37	-	-	96.51	32.15	12.31	32.6	258	10	P	H
		5795	102.42	-	-	90.56	32.15	12.31	32.6	258	10	A	H
		5852.4	65.43	-51.3	116.73	53.37	32.34	12.32	32.6	258	10	P	H
		5864.4	62.29	-45.88	108.17	50.17	32.4	12.32	32.6	258	10	P	H
		5875.2	57.22	-47.83	105.05	45.06	32.43	12.33	32.6	258	10	P	H
		5937.4	51.7	-16.6	68.3	39.43	32.53	12.34	32.6	258	10	P	H
		5639.2	49.78	-18.52	68.3	38.5	31.6	12.28	32.6	270	3	P	V
		5691.2	53.23	-45.5	98.73	41.76	31.78	12.29	32.6	270	3	P	V
		5714.2	59.16	-50.02	109.18	47.62	31.85	12.29	32.6	270	3	P	V
		5723	62.18	-55.46	117.64	50.58	31.91	12.29	32.6	270	3	P	V
		5795	109.54	-	-	97.68	32.15	12.31	32.6	270	3	P	V
		5795	103.53	-	-	91.67	32.15	12.31	32.6	270	3	A	V
		5854.6	63.9	-47.81	111.71	51.78	32.4	12.32	32.6	270	3	P	V
		5856.2	62.34	-48.12	110.46	50.22	32.4	12.32	32.6	270	3	P	V
	5875.4	57.51	-47.39	104.9	45.35	32.43	12.33	32.6	270	3	P	V	
	5925.4	51.05	-17.25	68.3	38.78	32.53	12.34	32.6	270	3	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



5725~5850MHz

WIFI 802.11ax HE40_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		11510	50.51	-23.49	74	43.78	41.2	16.53	51	160	360	P	H
HE40 Full		17265	50.95	-17.35	68.3	43.27	42.6	18.47	53.39	170	360	P	H
CH 151		11510	50.29	-23.71	74	43.56	41.2	16.53	51	160	360	P	V
5755MHz		17265	51.02	-17.28	68.3	43.34	42.6	18.47	53.39	170	360	P	V
802.11ax		11590	50.47	-23.53	74	43.97	40.92	16.56	50.98	170	300	P	H
HE40 Full		17385	51.59	-16.71	68.3	43.07	43.3	18.51	53.29	150	200	P	H
CH 159		11590	50.63	-23.37	74	44.13	40.92	16.56	50.98	170	300	P	V
5795MHz		17385	51.97	-16.33	68.3	43.45	43.3	18.51	53.29	150	200	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



5725~5850MHz

WIFI 802.11ax HE80_Full (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Full CH 155 5775MHz		5640.4	56.12	-12.18	68.3	44.84	31.6	12.28	32.6	220	12	P	H
		5699.8	66.25	-38.8	105.05	54.78	31.78	12.29	32.6	220	12	P	H
		5718.2	71.17	-39.13	110.3	59.57	31.91	12.29	32.6	220	12	P	H
		5724	72.32	-47.6	119.92	60.72	31.91	12.29	32.6	220	12	P	H
		5775	100.03	-	-	88.23	32.09	12.31	32.6	220	12	P	H
		5775	94.15	-	-	82.35	32.09	12.31	32.6	220	12	A	H
		5850	63.9	-58.3	122.2	51.84	32.34	12.32	32.6	220	12	P	H
		5857	65.93	-44.31	110.24	53.81	32.4	12.32	32.6	220	12	P	H
		5875.4	57.9	-47	104.9	45.74	32.43	12.33	32.6	220	12	P	H
		5932.8	52.29	-16.01	68.3	40.02	32.53	12.34	32.6	220	12	P	H
		5645	62.33	-5.97	68.3	51.05	31.6	12.28	32.6	246	35	P	V
		5698.8	76.07	-28.25	104.32	64.6	31.78	12.29	32.6	246	35	P	V
		5718.8	81.48	-28.98	110.46	69.88	31.91	12.29	32.6	246	35	P	V
		5721.4	80.12	-33.87	113.99	68.52	31.91	12.29	32.6	246	35	P	V
		5775	106.94	-	-	95.14	32.09	12.31	32.6	246	35	P	V
		5775	100.94	-	-	89.14	32.09	12.31	32.6	246	35	A	V
		5852.2	77.39	-39.79	117.18	65.33	32.34	12.32	32.6	246	35	P	V
		5856.4	76.51	-33.9	110.41	64.39	32.4	12.32	32.6	246	35	P	V
		5877.2	69.06	-34.51	103.57	56.9	32.43	12.33	32.6	246	35	P	V
		5934.8	54.44	-13.86	68.3	42.17	32.53	12.34	32.6	246	35	P	V

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



5725~5850MHz

WIFI 802.11ax HE80_Full (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax		11550	50.75	-23.25	74	44.17	41.03	16.54	50.99	160	360	P	H
HE80 Full		17325	51.65	-16.65	68.3	43.61	42.9	18.49	53.35	170	360	P	H
CH 155		11550	49.81	-24.19	74	43.23	41.03	16.54	50.99	160	360	P	V
5775MHz		17325	51.19	-17.11	68.3	43.15	42.9	18.49	53.35	170	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Partial RU:

5725~5850MHz

WIFI 802.11ax HE20_Partial RU (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11ax HE20 Partial RU CH 149 5745MHz		5648.8	51.68	-16.62	68.3	40.4	31.6	12.28	32.6	266	357	P	H
		5695.4	51.68	-50.14	101.82	40.21	31.78	12.29	32.6	266	357	P	H
		5719.8	61.93	-48.81	110.74	50.33	31.91	12.29	32.6	266	357	P	H
		5724.6	70.68	-50.61	121.29	59.08	31.91	12.29	32.6	266	357	P	H
		5745	114.52	-	-	102.85	31.97	12.3	32.6	266	357	P	H
		5745	105.95	-	-	94.28	31.97	12.3	32.6	266	357	A	H
		5600.8	50.33	-17.97	68.3	39.08	31.58	12.27	32.6	243	344	P	V
		5691.2	51.7	-47.03	98.73	40.23	31.78	12.29	32.6	243	344	P	V
		5719	58.39	-52.13	110.52	46.79	31.91	12.29	32.6	243	344	P	V
		5723.4	62.19	-56.36	118.55	50.59	31.91	12.29	32.6	243	344	P	V
		5745	111.76	-	-	100.09	31.97	12.3	32.6	243	344	P	V
		5745	104.84	-	-	93.17	31.97	12.3	32.6	243	344	A	V
802.11ax HE20 Partial RU CH 165 5825MHz		5825	112.44	-	-	100.44	32.28	12.32	32.6	267	358	P	H
		5825	105.7	-	-	93.7	32.28	12.32	32.6	267	358	A	H
		5851.4	58.53	-60.48	119.01	46.47	32.34	12.32	32.6	267	358	P	H
		5855.8	55.56	-55.02	110.58	43.44	32.4	12.32	32.6	267	358	P	H
		5887	52.39	-43.93	96.32	40.23	32.43	12.33	32.6	267	358	P	H
		5946.2	50.79	-17.51	68.3	38.49	32.56	12.34	32.6	267	358	P	H
		5825	112.36	-	-	100.36	32.28	12.32	32.6	245	343	P	V
		5825	105.44	-	-	93.44	32.28	12.32	32.6	245	343	A	V
		5850.4	64.6	-56.69	121.29	52.54	32.34	12.32	32.6	245	343	P	V
		5859.8	60.12	-49.33	109.45	48	32.4	12.32	32.6	245	343	P	V
		5909.8	52.49	-26.99	79.48	40.26	32.5	12.33	32.6	245	343	P	V
		5932.6	52.25	-16.05	68.3	39.98	32.53	12.34	32.6	245	343	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



5725~5850MHz

WIFI 802.11ax HE20_Partial RU (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE20 Partial CH 149 5745MHz		11490	49.61	-24.39	74	42.91	41.18	16.53	51.01	160	360	P	H
		17235	50.18	-18.12	68.3	42.73	42.4	18.46	53.41	170	360	P	H
		11490	49.53	-24.47	74	42.83	41.18	16.53	51.01	160	360	P	V
		17235	47.43	-20.87	68.3	39.98	42.4	18.46	53.41	170	360	P	V
802.11ax HE20 Partial RU CH 165 5825MHz		11650	49.55	-24.45	74	43.19	40.76	16.57	50.97	156	347	P	H
		17475	51.44	-16.86	68.3	42.32	43.8	18.55	53.23	150	360	P	H
		11650	49.93	-24.07	74	43.57	40.76	16.57	50.97	156	347	P	V
		17475	51.08	-17.22	68.3	41.96	43.8	18.55	53.23	150	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



5725~5850MHz

WIFI 802.11ax HE40_Partial RU (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial RU CH 151 5755MHz		5606	50.77	-17.53	68.3	39.52	31.58	12.27	32.6	265	355	P	H
		5699.4	62.02	-42.74	104.76	50.55	31.78	12.29	32.6	265	355	P	H
		5717.2	72.51	-37.51	110.02	60.97	31.85	12.29	32.6	265	355	P	H
		5724	78.56	-41.36	119.92	66.96	31.91	12.29	32.6	265	355	P	H
		5755	109.51	-	-	97.78	32.03	12.3	32.6	265	355	P	H
		5755	101.9	-	-	90.17	32.03	12.3	32.6	265	355	A	H
		5854.2	52.97	-59.65	112.62	40.85	32.4	12.32	32.6	265	355	P	H
		5871.6	52.23	-53.92	106.15	40.08	32.43	12.32	32.6	265	355	P	H
		5906.4	52.43	-29.56	81.99	40.2	32.5	12.33	32.6	265	355	P	H
		5925.6	51.76	-16.54	68.3	39.49	32.53	12.34	32.6	265	355	P	H
		5626	51.09	-17.21	68.3	39.82	31.59	12.28	32.6	243	346	P	V
		5680.2	58.37	-32.26	90.63	46.96	31.72	12.29	32.6	243	346	P	V
		5719.2	74.03	-36.55	110.58	62.43	31.91	12.29	32.6	243	346	P	V
		5723.8	78.7	-40.76	119.46	67.1	31.91	12.29	32.6	243	346	P	V
		5755	111.26	-	-	99.53	32.03	12.3	32.6	243	346	P	V
		5755	103.88	-	-	92.15	32.03	12.3	32.6	243	346	A	V
		5850.8	52.31	-68.07	120.38	40.25	32.34	12.32	32.6	243	346	P	V
		5856.4	52.54	-57.87	110.41	40.42	32.4	12.32	32.6	243	346	P	V
	5919	52.21	-20.5	72.71	39.98	32.5	12.33	32.6	243	346	P	V	
	5925.2	51.58	-16.72	68.3	39.31	32.53	12.34	32.6	243	346	P	V	



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial RU CH 159 5795MHz		5640.8	51.21	-17.09	68.3	39.93	31.6	12.28	32.6	263	359	P	H
		5698.4	54.03	-49.99	104.02	42.56	31.78	12.29	32.6	263	359	P	H
		5714	59.07	-50.05	109.12	47.53	31.85	12.29	32.6	263	359	P	H
		5722.6	51.34	-65.39	116.73	39.74	31.91	12.29	32.6	263	359	P	H
		5795	113.76	-	-	101.9	32.15	12.31	32.6	263	359	P	H
		5795	106.75	-	-	94.89	32.15	12.31	32.6	263	359	A	H
		5852	64.87	-52.77	117.64	52.81	32.34	12.32	32.6	263	359	P	H
		5855	62.32	-48.48	110.8	50.2	32.4	12.32	32.6	263	359	P	H
		5892.2	55.46	-37.01	92.47	43.26	32.47	12.33	32.6	263	359	P	H
		5931.4	52.55	-15.75	68.3	40.28	32.53	12.34	32.6	263	359	P	H
		5635.8	50.82	-17.48	68.3	39.54	31.6	12.28	32.6	244	347	P	V
		5700	53.98	-51.22	105.2	42.51	31.78	12.29	32.6	244	347	P	V
		5717.6	57.85	-52.28	110.13	46.25	31.91	12.29	32.6	244	347	P	V
		5721	61.97	-51.11	113.08	50.37	31.91	12.29	32.6	244	347	P	V
		5795	113.12	-	-	101.26	32.15	12.31	32.6	244	347	P	V
		5795	106.28	-	-	94.42	32.15	12.31	32.6	244	347	A	V
		5850.4	65.09	-56.2	121.29	53.03	32.34	12.32	32.6	244	347	P	V
		5860	63.1	-46.3	109.4	50.98	32.4	12.32	32.6	244	347	P	V
	5894.6	56.5	-34.2	90.7	44.3	32.47	12.33	32.6	244	347	P	V	
	5929.4	52.93	-15.37	68.3	40.66	32.53	12.34	32.6	244	347	P	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



5725~5850MHz

WIFI 802.11ax HE40_Partial RU (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE40 Partial RU CH 151 5755MHz		11510	50	-24	74	43.27	41.2	16.53	51	160	360	P	H
		17265	48.71	-19.59	68.3	41.03	42.6	18.47	53.39	170	360	P	H
		11510	49.16	-24.84	74	42.43	41.2	16.53	51	160	360	P	V
		17265	51	-17.3	68.3	43.32	42.6	18.47	53.39	170	360	P	V
802.11ax HE40 Partial RU CH 159 5795MHz		11590	50.06	-23.94	74	43.56	40.92	16.56	50.98	170	300	P	H
		17385	50.64	-17.66	68.3	42.12	43.3	18.51	53.29	150	200	P	H
		11590	49.56	-24.44	74	43.06	40.92	16.56	50.98	170	300	P	V
		17385	50.61	-17.69	68.3	42.09	43.3	18.51	53.29	150	200	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



5725~5850MHz

WIFI 802.11ax HE80_Partial RU (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial RU454/65 CH 155 5775MHz		5628	56.87	-11.43	68.3	45.6	31.59	12.28	32.6	261	358	P	H
		5677.2	69.89	-18.52	88.41	58.48	31.72	12.29	32.6	261	358	P	H
		5717.6	75.35	-34.78	110.13	63.75	31.91	12.29	32.6	261	358	P	H
		5724.2	77.31	-43.07	120.38	65.71	31.91	12.29	32.6	261	358	P	H
		5775	114.48	-	-	102.68	32.09	12.31	32.6	261	358	P	H
		5775	107.43	-	-	95.63	32.09	12.31	32.6	261	358	A	H
		5850.4	71.99	-49.3	121.29	59.93	32.34	12.32	32.6	261	358	P	H
		5857.2	72.39	-37.79	110.18	60.27	32.4	12.32	32.6	261	358	P	H
		5877	62.98	-40.74	103.72	50.82	32.43	12.33	32.6	261	358	P	H
		5941	51.92	-16.38	68.3	39.62	32.56	12.34	32.6	261	358	P	H
		5627.8	54.43	-13.87	68.3	43.16	31.59	12.28	32.6	245	343	P	V
		5651.8	61.7	-7.93	69.63	50.36	31.66	12.28	32.6	245	343	P	V
		5693.6	70.69	-29.8	100.49	59.22	31.78	12.29	32.6	245	343	P	V
		5710.6	74.63	-33.54	108.17	63.09	31.85	12.29	32.6	245	343	P	V
		5775	113.91	-	-	102.11	32.09	12.31	32.6	245	343	P	V
		5775	106.22	-	-	94.42	32.09	12.31	32.6	245	343	A	V
		5850.6	72.35	-48.48	120.83	60.29	32.34	12.32	32.6	245	343	P	V
		5861.6	72	-36.95	108.95	59.88	32.4	12.32	32.6	245	343	P	V
		5879.8	64.46	-37.18	101.64	52.3	32.43	12.33	32.6	245	343	P	V
	5929.4	52.55	-15.75	68.3	40.28	32.53	12.34	32.6	245	343	P	V	

Remark

- No other spurious found.
- All results are PASS against Peak and Average limit line.



WiFi Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial RU484/66 CH 155 5775MHz		5650	57.86	-10.44	68.3	46.52	31.66	12.28	32.6	258	35	P	H
		5684	74.18	-19.25	93.43	62.71	31.78	12.29	32.6	258	35	P	H
		5717.6	76.35	-33.78	110.13	64.75	31.91	12.29	32.6	258	35	P	H
		5724.2	78.31	-42.07	120.38	66.71	31.91	12.29	32.6	258	35	P	H
		5775	112.6	-	-	100.8	32.09	12.31	32.6	258	35	P	H
		5775	104.19	-	-	92.39	32.09	12.31	32.6	258	35	A	H
		5850.6	71.69	-49.14	120.83	59.63	32.34	12.32	32.6	258	35	P	H
		5868.8	73.15	-33.78	106.93	61.03	32.4	12.32	32.6	258	35	P	H
		5879.2	62.94	-39.15	102.09	50.78	32.43	12.33	32.6	258	35	P	H
		5926.4	53.79	-14.51	68.3	41.52	32.53	12.34	32.6	258	35	P	H
		5643.4	57.19	-11.11	68.3	45.91	31.6	12.28	32.6	246	341	P	V
		5696	72.35	-29.91	102.26	60.88	31.78	12.29	32.6	246	341	P	V
		5720	76.03	-34.77	110.8	64.43	31.91	12.29	32.6	246	341	P	V
		5721.2	76.24	-37.3	113.54	64.64	31.91	12.29	32.6	246	341	P	V
		5775	110.99	-	-	99.19	32.09	12.31	32.6	246	341	P	V
		5775	104.33	-	-	92.53	32.09	12.31	32.6	246	341	A	V
		5853.2	74.38	-40.52	114.9	62.32	32.34	12.32	32.6	246	341	P	V
		5868.8	72.92	-34.01	106.93	60.8	32.4	12.32	32.6	246	341	P	V
	5880.2	66.55	-34.8	101.35	54.39	32.43	12.33	32.6	246	341	P	V	
	5935.4	52.52	-15.78	68.3	40.25	32.53	12.34	32.6	246	341	P	V	

Remark
 1. No other spurious found.
 2. All results are PASS against Peak and Average limit line.



5725~5850MHz

WIFI 802.11ax HE80_Partial RU (Harmonic @ 3m)

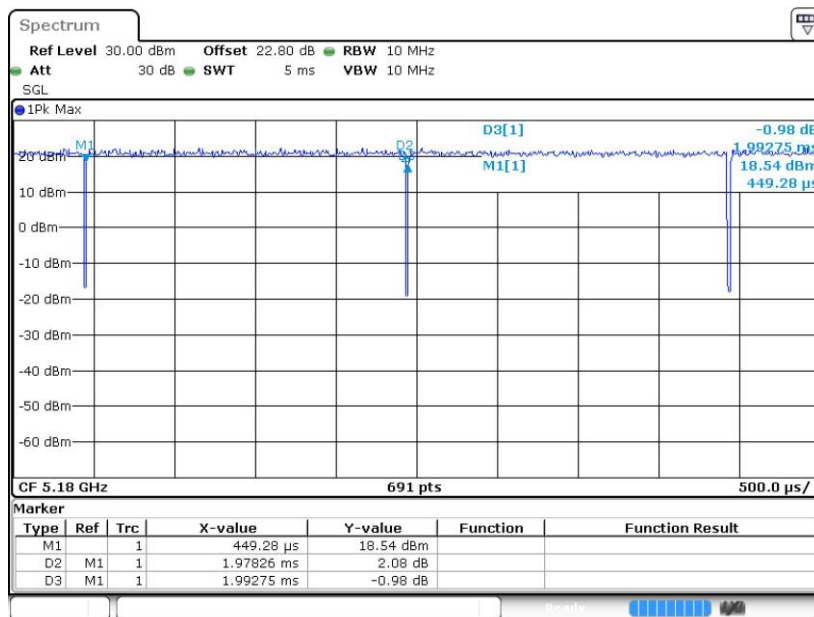
WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ax HE80 Partial		11550	50.11	-23.89	74	43.53	41.03	16.54	50.99	160	360	P	H
		17325	50.13	-18.17	68.3	42.09	42.9	18.49	53.35	170	360	P	H
RU484/65 CH 155 5775MHz		11550	50.24	-23.76	74	43.66	41.03	16.54	50.99	160	360	P	V
		17325	50.79	-17.51	68.3	42.75	42.9	18.49	53.35	170	360	P	V
802.11ax HE80 Partial		11000	49.99	-24.01	74	44.31	40.59	16.49	51.4	163	230	P	H
		16500	47.41	-20.89	68.3	42.97	38.94	18.2	52.7	178	296	P	H
RU484/66 CH 155 5775MHz		11000	50.17	-23.83	74	44.49	40.59	16.49	51.4	163	230	P	V
		16500	47.36	-20.94	68.3	42.92	38.94	18.2	52.7	178	296	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Appendix D. Duty Cycle Plots

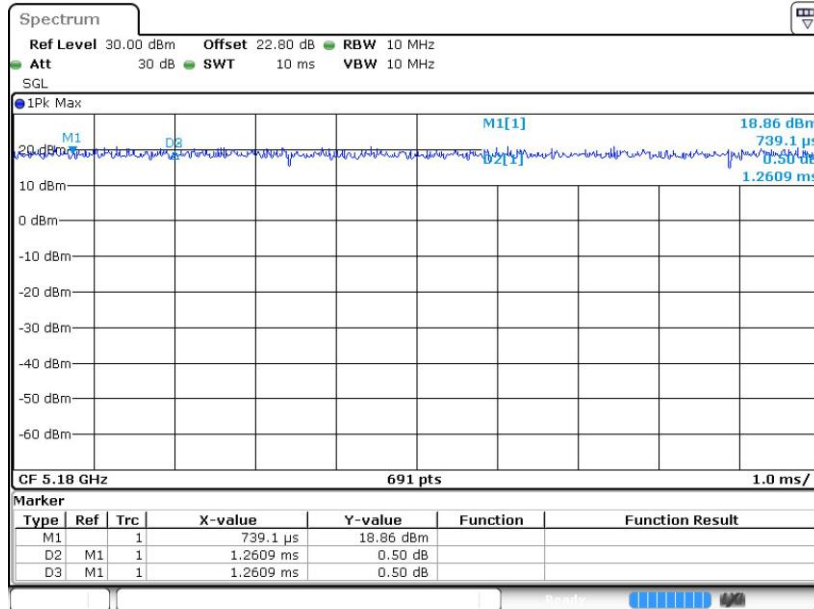
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
1+2	802.11a	99.27	-	-	10Hz
1+2	802.11n HT20	100	-	-	10Hz
1+2	802.11n HT40	100	-	-	10Hz
1+2	802.11ac VHT80	100	-	-	10Hz
1+2	802.11ax HE20	100	-	-	10Hz
1+2	802.11ax HE40	100	-	-	10Hz
1+2	802.11ax HE80	100	-	-	10Hz

802.11a

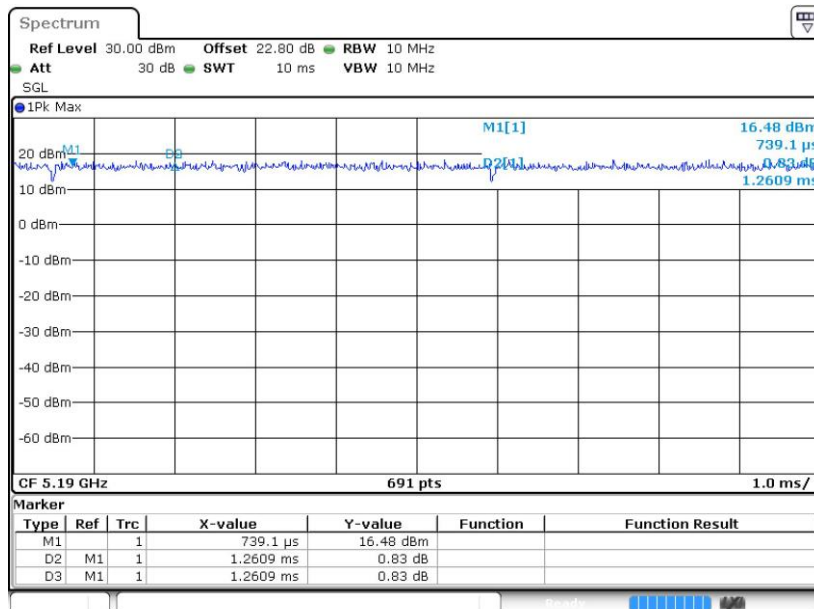




802.11n HT20



802.11n HT40

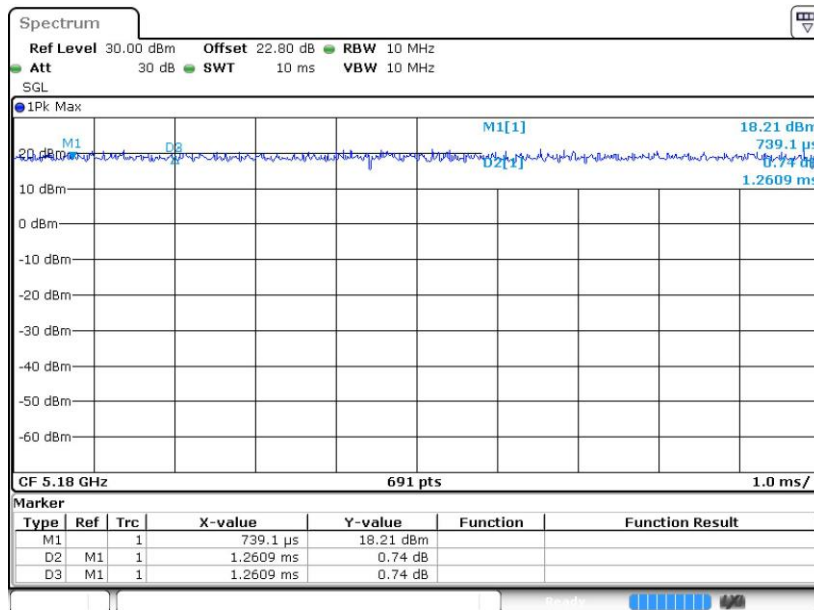




802.11ac VHT80

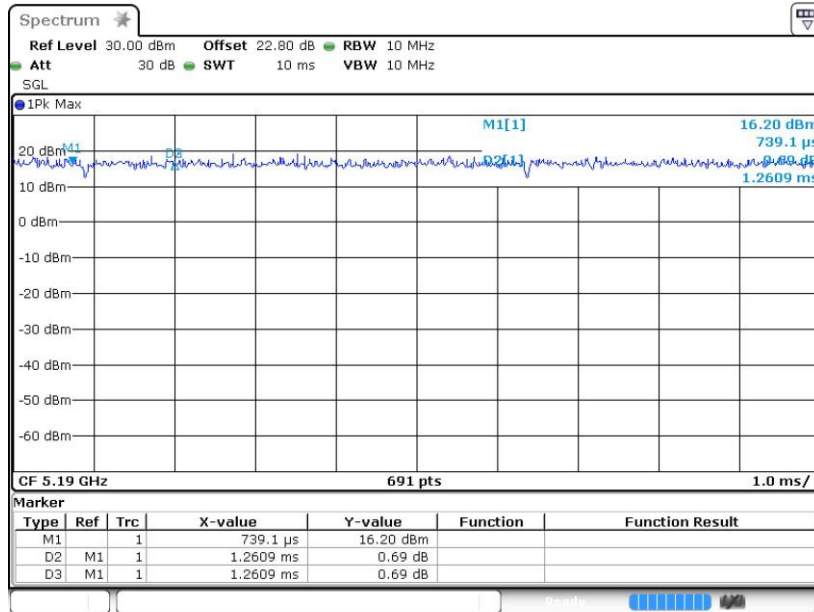


802.11ax HE20





802.11ax HE40



802.11ax HE80

