



FCC RF Test Report

APPLICANT : vivo Mobile Communication Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : vivo
MODEL NAME : V2145
FCC ID : 2AUCY-V2145
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Mar. 21, 2022 ~ Apr. 08, 2022

We, Sporton International Inc. (ShenZhen), 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 Inc. (ShenZhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR212202G	Rev. 01	Initial issue of report	Apr. 26, 2022

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 12.55 dB at 55.220 MHz
3.5	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 4.95 dB at 0.170 MHz
3.6	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	Pass	-

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

vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan,Guangdong,China

1.2 Manufacturer

vivo Mobile Communication Co., Ltd.

No.1, vivo Road, Chang'an, Dongguan,Guangdong,China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	vivo
Model Name	V2145
FCC ID	2AUCY-V2145
IMEI Code	Conducted: N/A Conduction: 868488069969903 Radiation: 868488069969622/868488069969630
HW Version	MP_0.1
SW Version	PD2185BF_EX_A_12.0.9.2.W30.V000L1
EUT Stage	Production Unit

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 : 15.24 dBm / 0.0334 W 802.11n HT20 : 15.16 dBm / 0.0328 W 802.11n HT40 : 15.26 dBm / 0.0336 W 802.11ac VHT20: 15.22 dBm / 0.0333 W 802.11ac VHT40: 15.34 dBm / 0.0342 W 802.11ac VHT80: 15.12 dBm / 0.0325 W 802.11ax HE20: 15.26 dBm / 0.0336 W 802.11ax HE40: 15.19 dBm / 0.0330 W 802.11ax HE80: 15.22 dBm / 0.0333 W	
99% Occupied Bandwidth		802.11a : 16.48 MHz 802.11ac VHT20 : 17.58 MHz 802.11ac VHT40 : 36.36 MHz 802.11ac VHT80 : 75.40 MHz 802.11ax HE20 : 18.93 MHz 802.11ax HE40 : 37.96 MHz 802.11ax HE80 : 77.32 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 -3.00 dBi <Ant. 2> : PIFA Antenna with gain -3.00 dBi	
Antenna Function Description			
		802.11 a/n/ac/ax SISO/MIMO	Ant. 1 V Ant. 2 V

Note:

1. For 802.11n HT20 / ac VHT20 and 802.11n HT40 / ac VHT40 mode, the whole testing have assessed only 802.11ac VHT20/VHT40 by referring to their maximum conducted power.
2. For SISO&MIMO (CDD) mode, the whole testing has assessed only MIMO mode by referring to their higher conducted power.
3. The device support partial RU for 802.11ax mode.
4. Ant. 1/2 corresponds to ant. 23/24 in the EP report respectively.

1.5 Modification of EUT

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



1.6 Testing Location

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

Test Firm	Sporton International Inc. (Shenzhen)		
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 Inc. (Shenzhen)		
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.
	03CH03-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-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.

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 (X 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.
2. The above Frequency and Channel in "[#]" were 802.11ac VHT80.

2.2 Test Mode

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

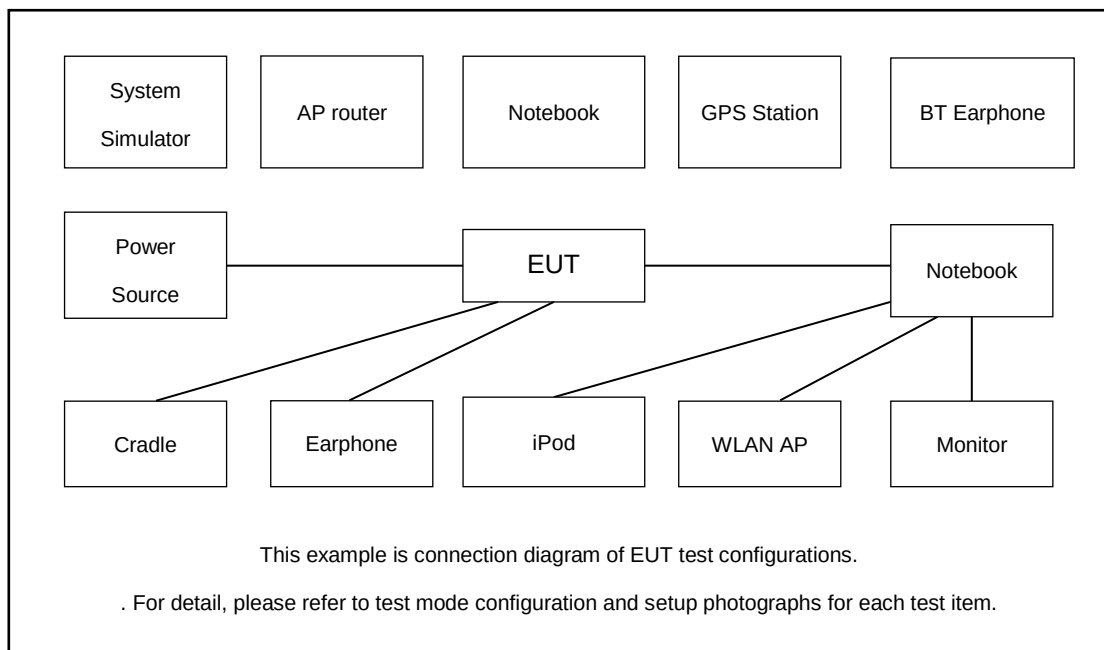
MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11ac VHT20 (Covered by HT20)	MCS0
802.11ac VHT40 (Covered by HT40)	MCS0
802.11ac VHT80	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11ax HE80	MCS0

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

Ch. #		U-NII-3 : 5745-5825 MHz			
		802.11a	802.11ac VHT20	802.11ac VHT40	802.11ac VHT80
L	Low	149	149	151	-
M	Middle	157	157	-	155
H	High	165	165	159	-

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Base Station(LTE)	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
3.	NOTE BOOK	Lenovo	E540	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
4.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	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 continuous transmit.

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 10 dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 2.8 + 10 = 12.8 \text{ (dB)}\end{aligned}$$

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.

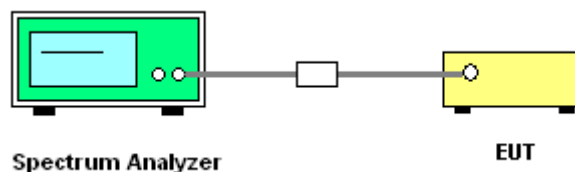
3.1.2 Measuring Instruments

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. For 6dB BW, Set RBW = 100kHz.
For 26dB BW, Set RBW = approximately 1% of the emission bandwidth.
For 99% OBW, Set RBW = 1% to 5% of the OBW.
3. For 26dB BW, Set the VBW > RBW.
For 6dB BW & 99% OBW, 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

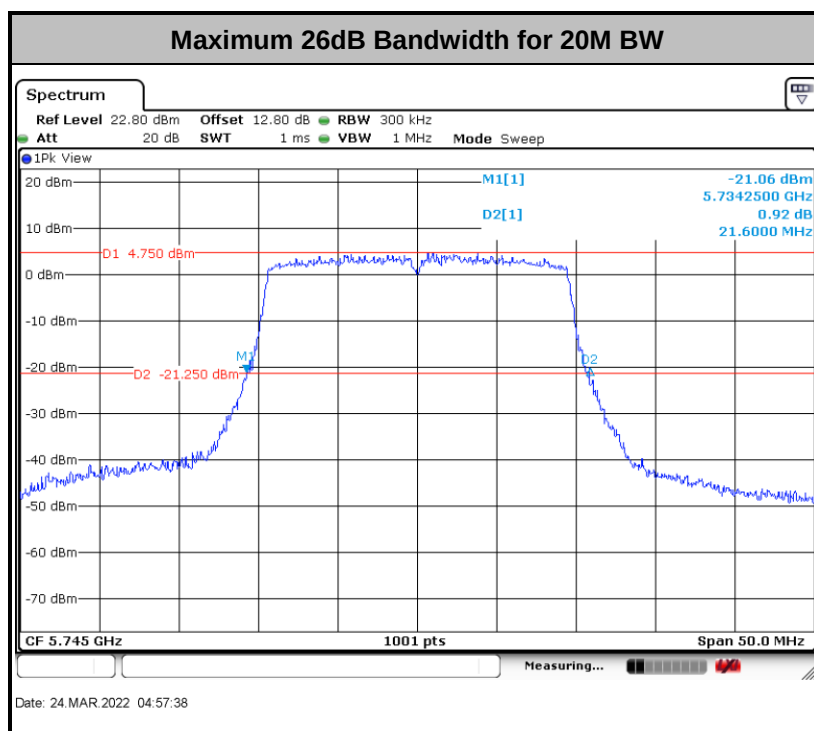
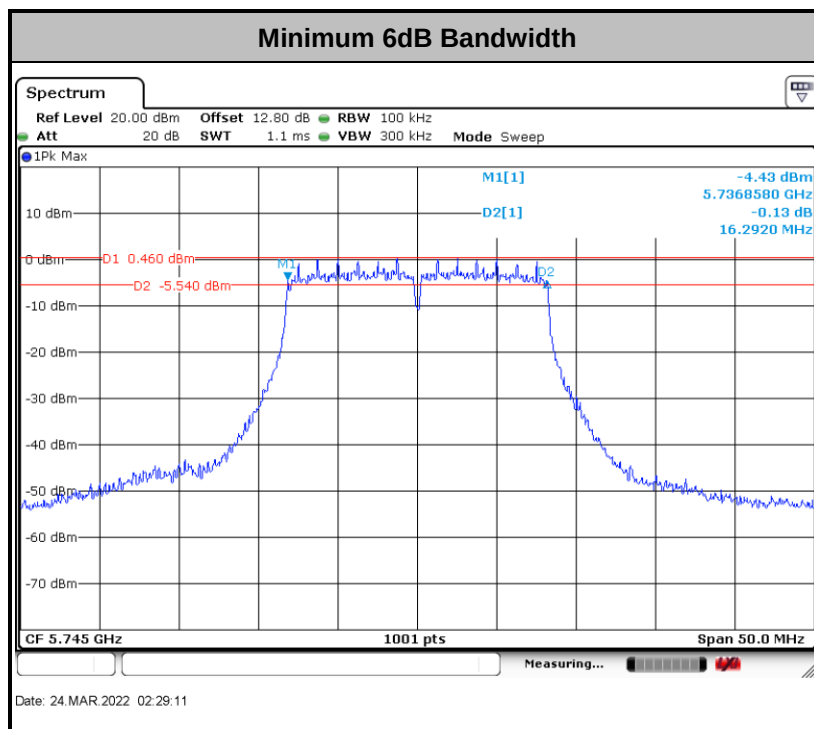


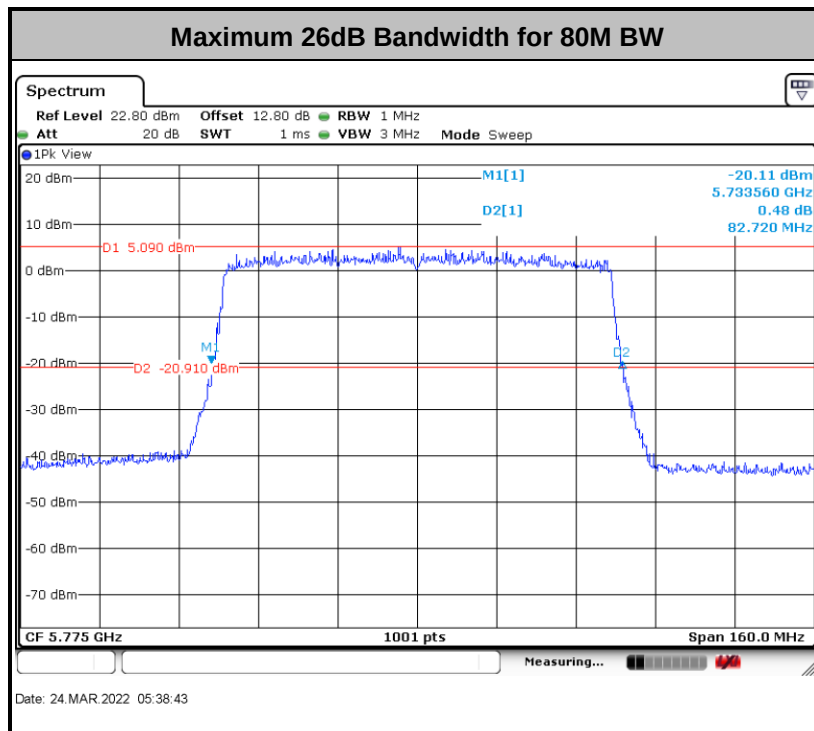
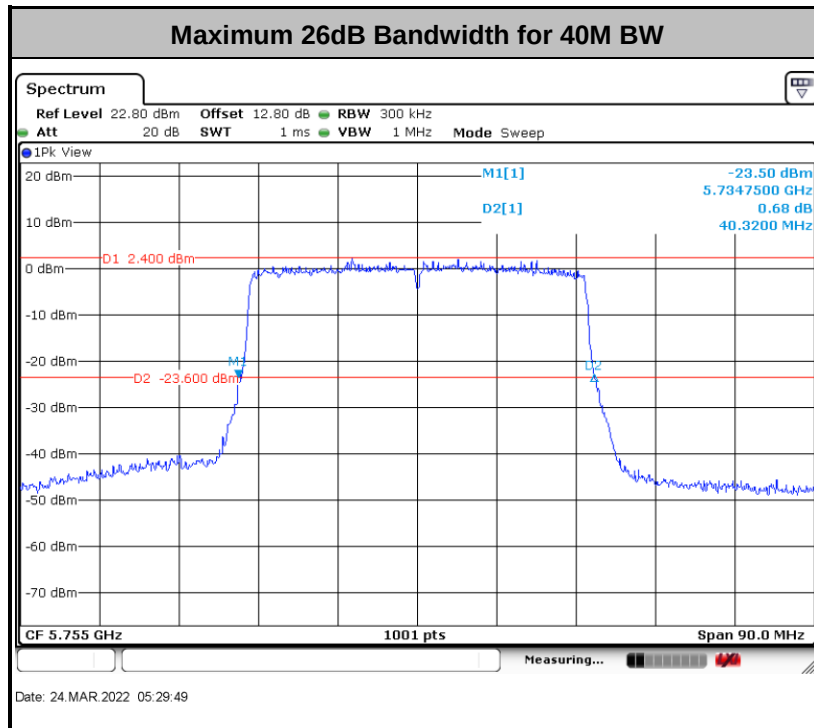
3.1.5 Test Result of 6dB Bandwidth

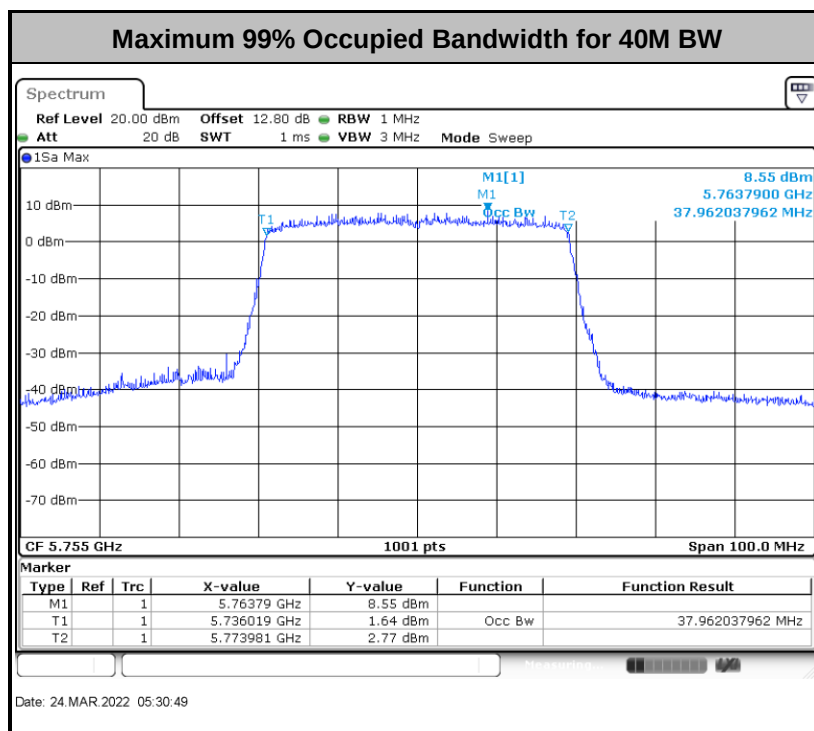
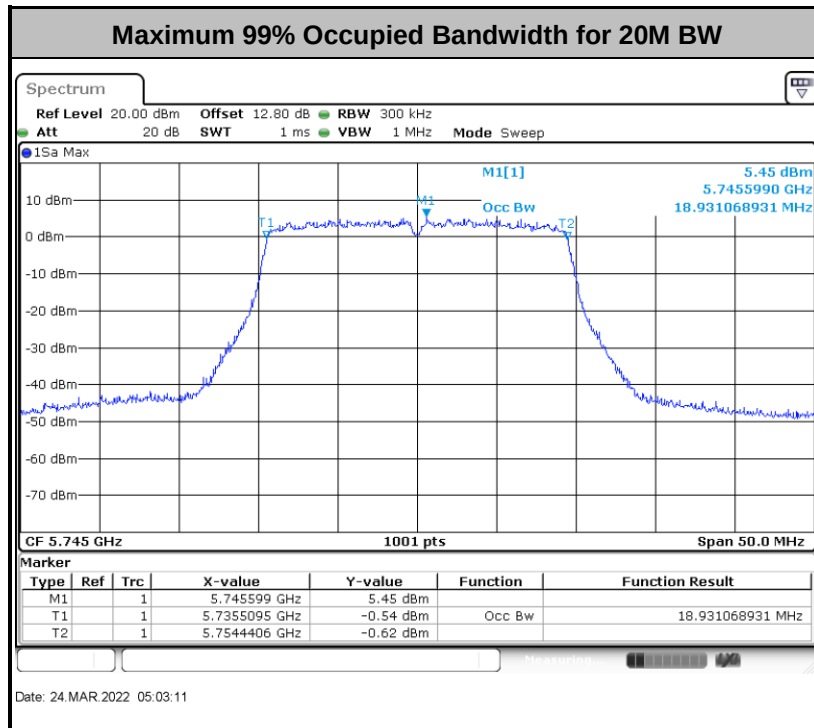
Please refer to Appendix A.

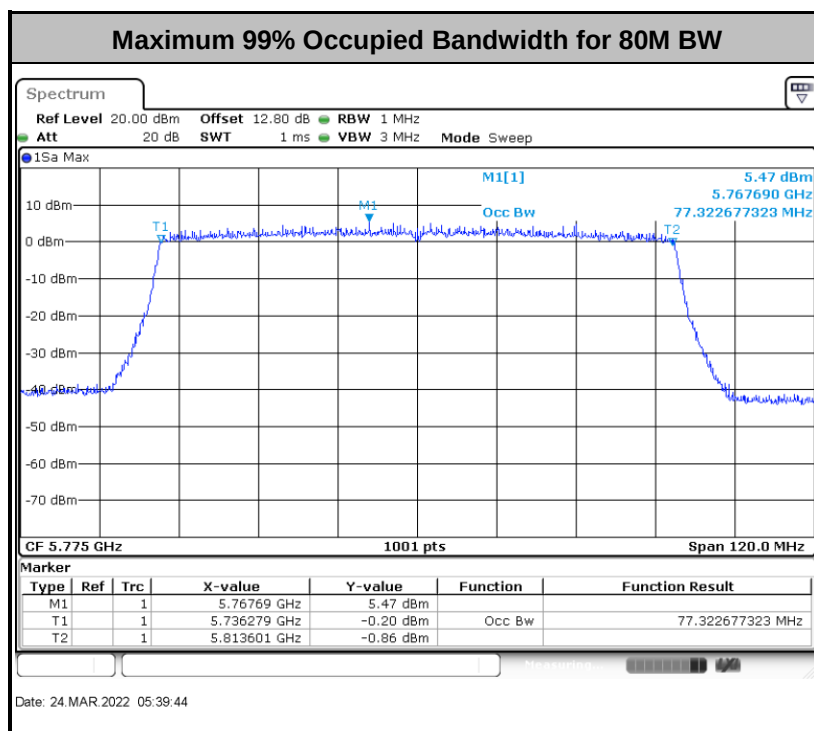


<CDD Mode>









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



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.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the 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.

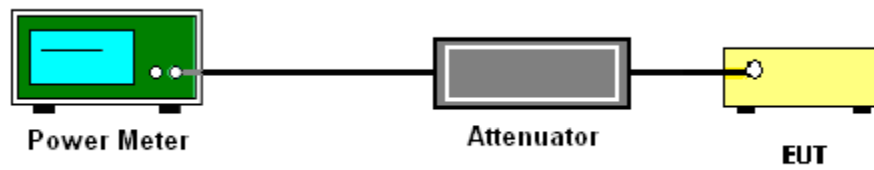
3.2.3 Test Procedures

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.
4. For MIMO mode, the measure-and-sum technique should be used for measuring the in-band transmit power of a device.

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.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the 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.

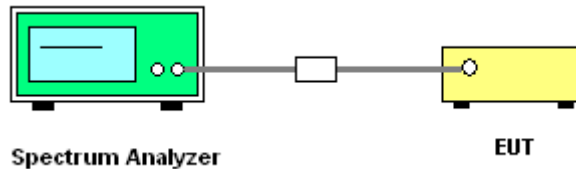
Method SA-2

(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 PSD and record it.

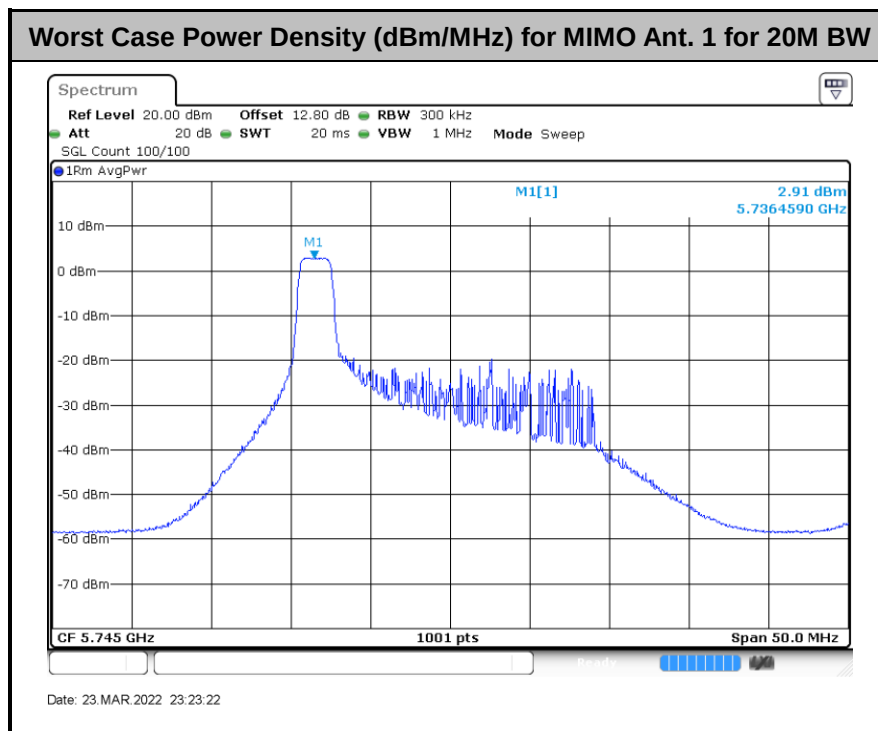
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

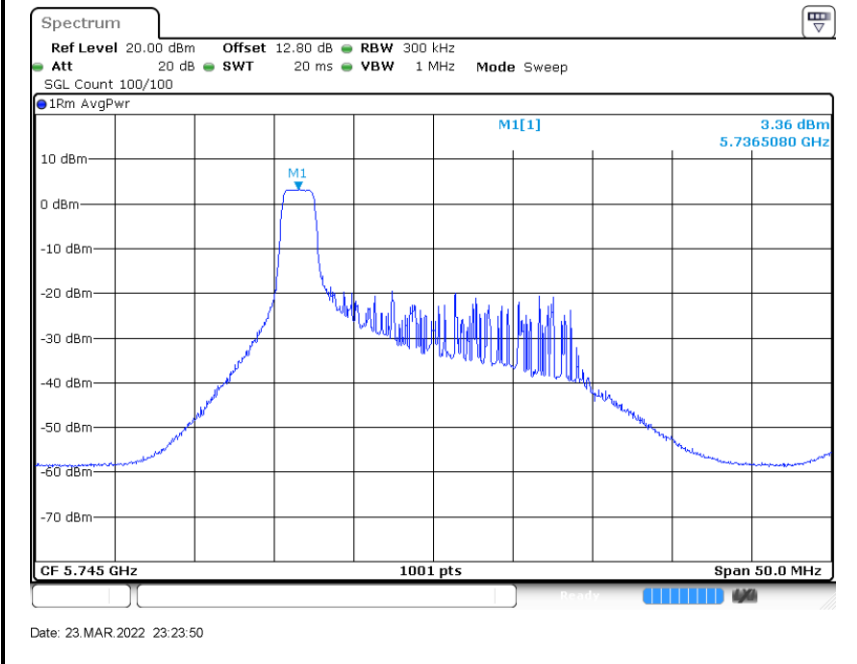
Please refer to Appendix A.

<CDD Modes>

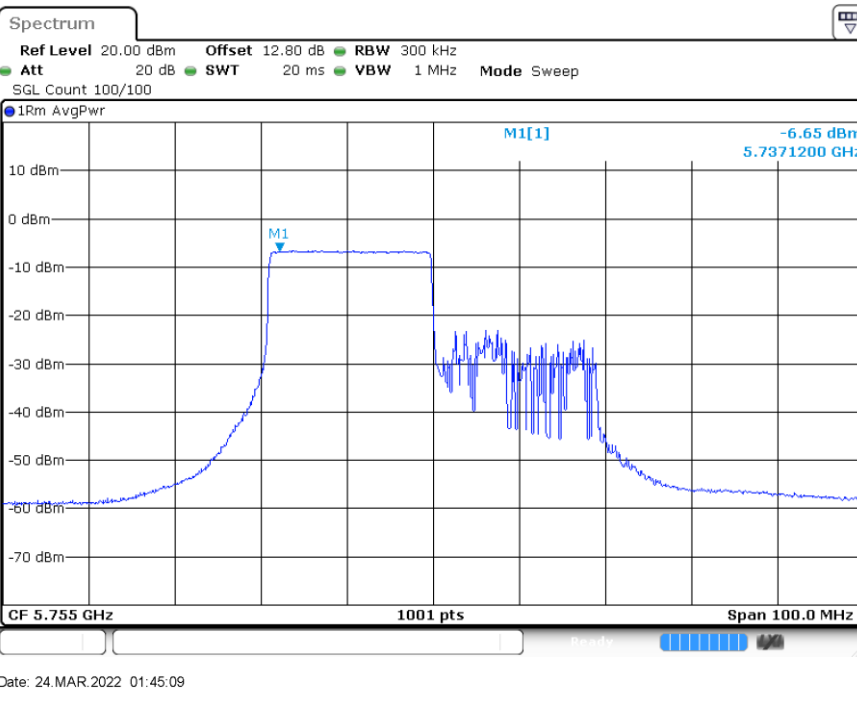


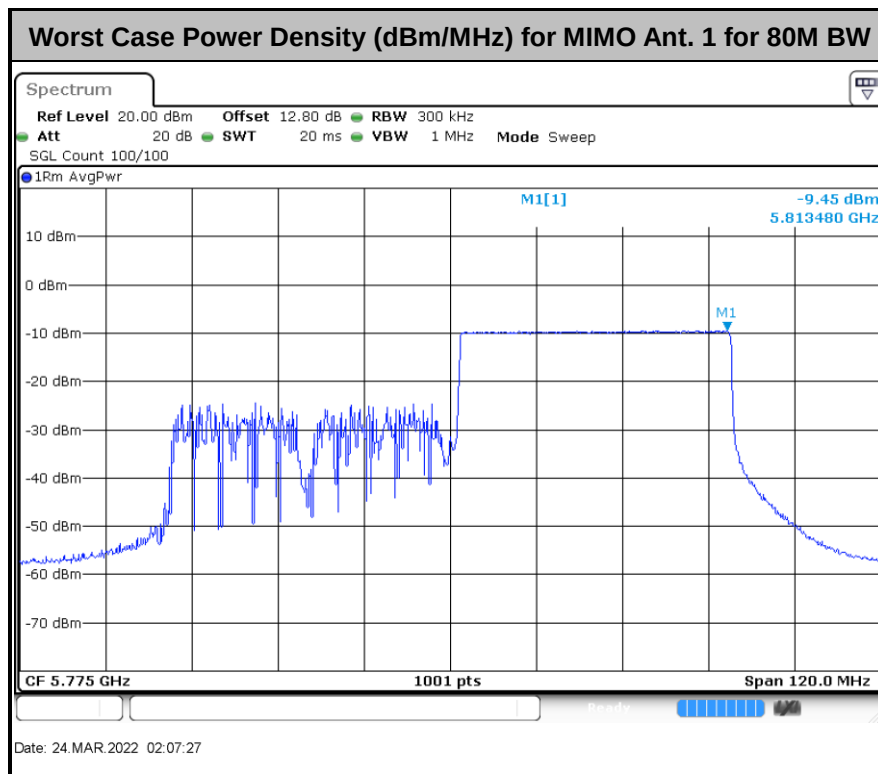
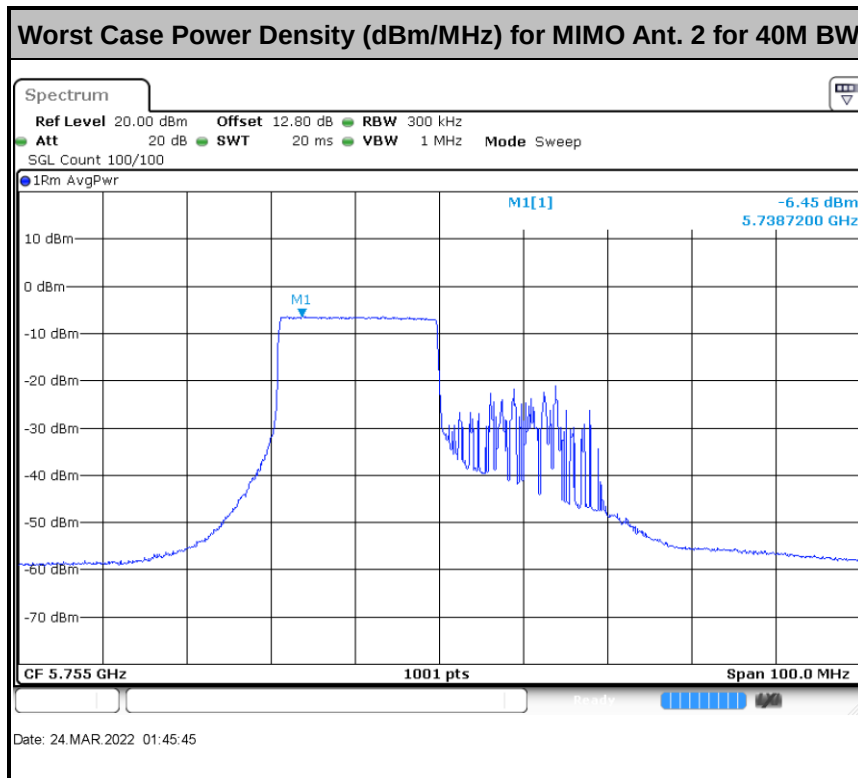


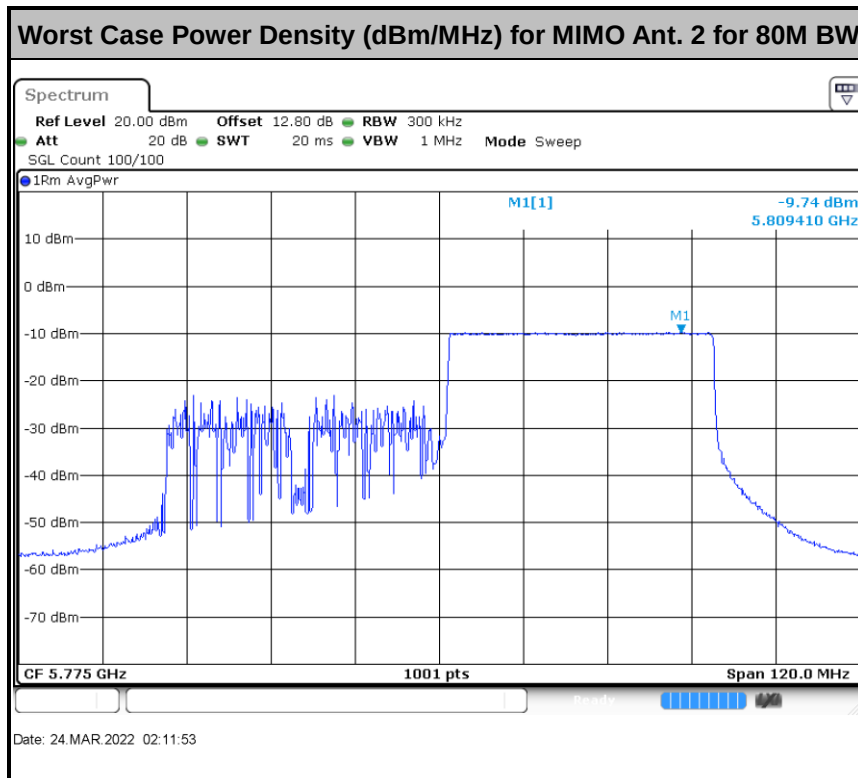
Worst Case Power Density (dBm/MHz) for MIMO Ant. 2 for 20M BW



Worst Case Power Density (dBm/MHz) for MIMO Ant. 1 for 40M BW







Note: Average Power Density (dB) = Measured value (MIMO ANT1+2) + Duty Factor

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.

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

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) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

3.4.2 Measuring Instruments

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

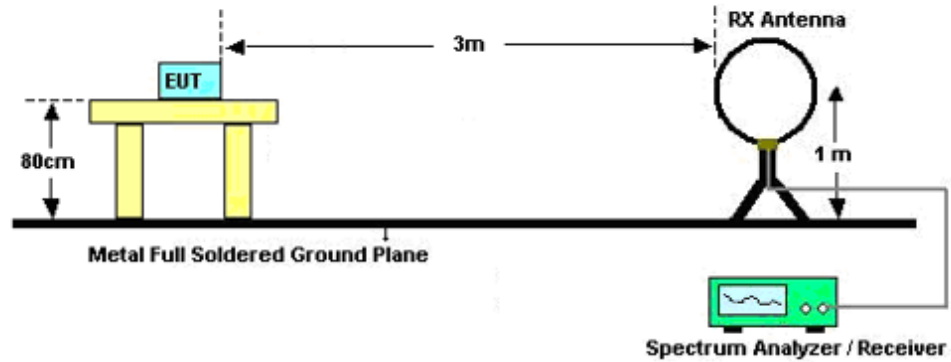


3.4.3 Test Procedures

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.

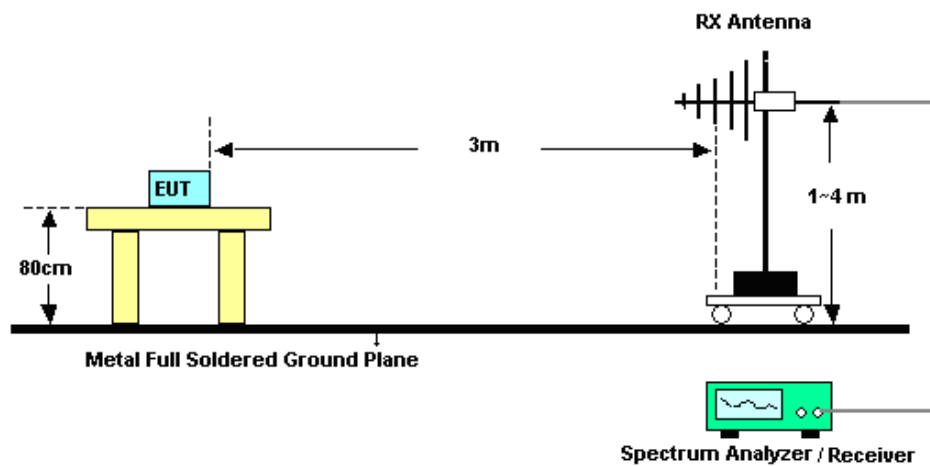
3.4.4 Test Setup

For radiated emissions below 30MHz



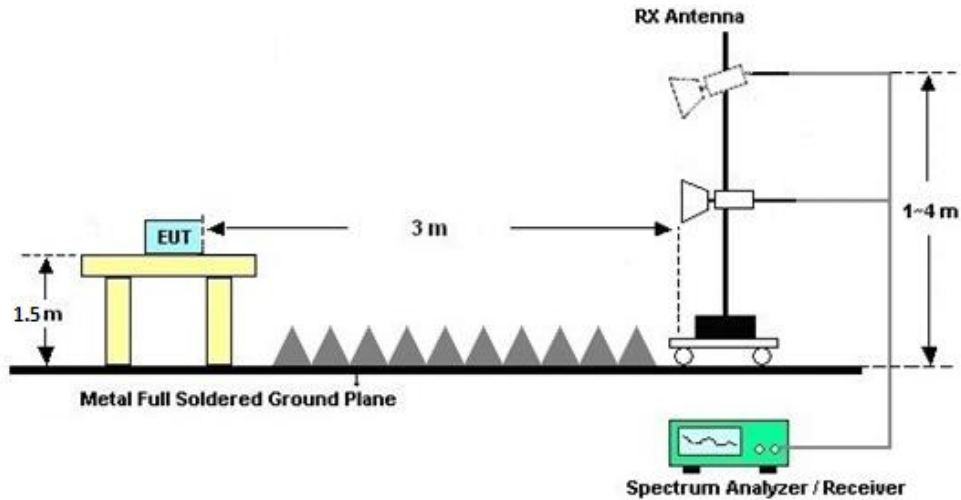
For radiated emissions from 30MHz to 1GHz

<CDD Mode>



For radiated emissions above 1GHz

<CDD Mode>



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 (dB μ V)	
	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.

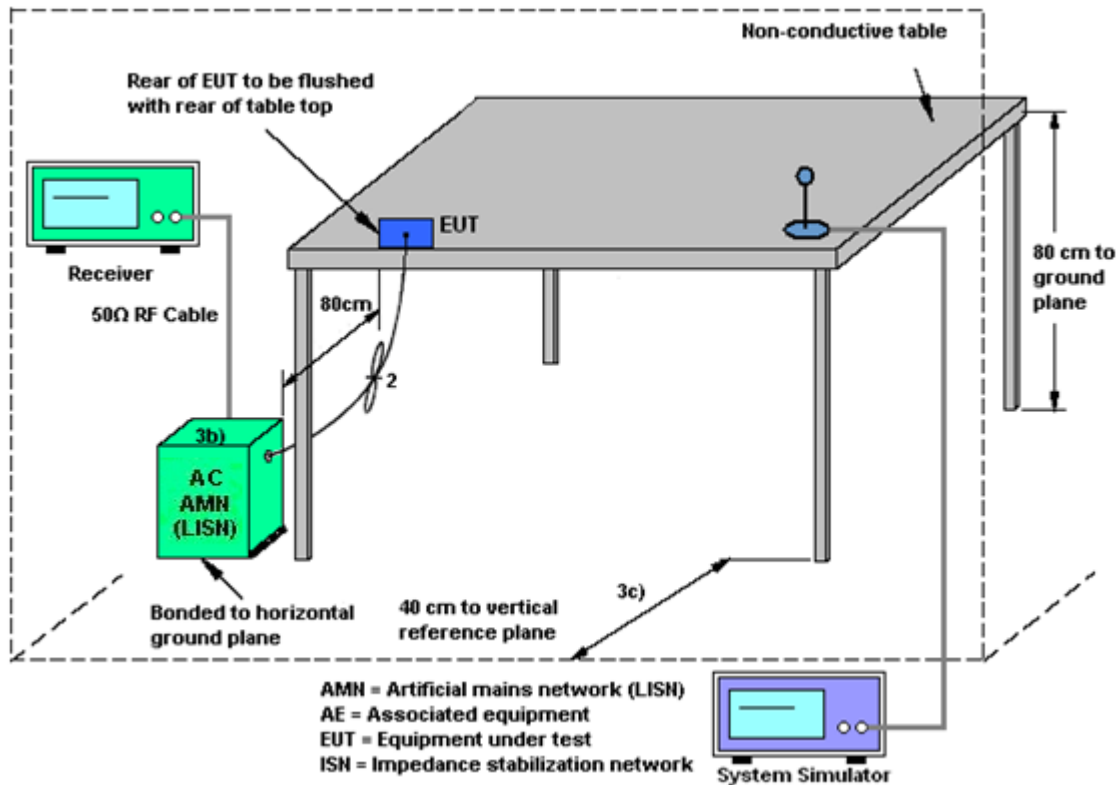
3.5.2 Measuring Instruments

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 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + 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 G_{ANT} 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>						
			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 1 (dBi)	Ant. 2 (dBi)				
Band IV	-3.00	-3.00	-3.00	0.01	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
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Mar. 06, 2022	Mar. 26, 2022	Mar. 05, 2023	Conduction (CO01-SZ)
AC LISN	EMCO	3816/2 LISN	00103912	9kHz~30MHz	Dec. 25, 2020	Mar. 26, 2022	Dec 24, 2021	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 15, 2020	Mar. 26, 2022	Oct. 14, 2021	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul. 21, 2020	Mar. 26, 2022	Jul. 20, 2021	Conduction (CO01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 08, 2021	Mar. 21, 2022~Mar. 24, 2022	Apr. 07, 2022	Conducted (TH01-SZ)
Thermal Chamber	Ten Billion Hongzhongroup	LP-150U	H2014081803	-40~+150°C	Jul. 22, 2020	Mar. 21, 2022~Mar. 24, 2022	Jul. 21, 2021	Conducted (TH01-SZ)
Power Sensor	Anritsu	MA24440A	11707	50MHz~40GHz	Jun. 04, 2021	Mar. 21, 2022~Mar. 24, 2022	Jun.03, 2022	Conducted (TH01-SZ)
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 06, 2022	Apr. 08, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150246	10Hz~44GHz;	Apr. 06, 2022	Apr. 08, 2022	Apr. 05, 2023	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 22, 2020	Apr. 08, 2022	Jun. 21, 2022	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz~2GHz	Jun. 22, 2020	Apr. 08, 2022	Jun. 21, 2022	Radiation (03CH03-SZ)
Double Ridge Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-1355	1GHz~18GHz	Apr. 25 2021	Apr. 08, 2022	Apr. 24 2022	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Oct. 22,2021	Apr. 08, 2022	Oct. 21,2022	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz~40GHz	Apr. 11, 2021	Apr. 08, 2022	Apr. 10, 2022	Radiation (03CH03-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz~3000MHz	Oct. 22, 2021	Apr. 08, 2022	Oct. 21, 2022	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 22, 2021	Apr. 08, 2022	Oct. 21, 2022	Radiation (03CH03-SZ)
Amplifier	Agilent Technologies	83017A	MY39501302	500MHz~26.5 GHz	Dec. 30, 2021	Apr. 08, 2022	Dec. 29, 2022	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	NCR	Apr. 08, 2022	NCR	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Apr. 08, 2022	NCR	Radiation (03CH03-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% ($U = 2Uc(y)$)	2.2 dB
---	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
---	--------

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
---	--------

----- THE END -----



Appendix A. Conducted Test Results

Report Number : FR212202G

Test Engineer:	Zhang Xue Yi	Temperature:	21~25	°C
Test Date:	2022/3/24	Relative Humidity:	51~54	%

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	16.43	16.38	19.30	19.40	16.29	16.34	0.5		Pass
11a	6Mbps	2	157	5785	16.43	16.38	19.60	19.40	16.29	16.29	0.5		Pass
11a	6Mbps	2	165	5825	16.48	16.38	19.60	19.35	16.30	16.35	0.5		Pass
VHT20	MCS0	2	149	5745	17.58	17.53	20.85	20.65	17.60	17.60	0.5		Pass
VHT20	MCS0	2	157	5785	17.58	17.53	20.80	20.50	17.50	17.50	0.5		Pass
VHT20	MCS0	2	165	5825	17.58	17.58	20.55	20.40	17.50	17.55	0.5		Pass
VHT40	MCS0	2	151	5755	36.26	36.36	39.51	39.24	36.00	36.27	0.5		Pass
VHT40	MCS0	2	159	5795	36.36	36.26	39.33	39.42	35.82	35.82	0.5		Pass
VHT80	MCS0	2	155	5775	75.40	75.40	82.56	81.76	75.20	75.36	0.5		Pass
HE20	MCS0	2	149	5745	18.88	18.93	21.60	21.15	18.85	18.80	0.5		Pass
HE20	MCS0	2	157	5785	18.88	18.93	21.45	21.20	18.90	18.85	0.5		Pass
HE20	MCS0	2	165	5825	18.93	18.88	21.30	21.05	18.70	18.95	0.5		Pass
HE40	MCS0	2	151	5755	37.96	37.96	40.32	40.32	37.80	37.71	0.5		Pass
HE40	MCS0	2	159	5795	37.96	37.96	40.14	40.23	37.89	37.71	0.5		Pass
HE80	MCS0	2	155	5775	77.20	77.32	82.56	82.72	77.44	77.92	0.5		Pass

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	0.04	0.04	12.27	12.17	15.24	30.00		-3.00		Pass	
11a	6Mbps	2	157	Full	5785	0.04	0.04	12.22	12.06	15.16	30.00		-3.00		Pass	
11a	6Mbps	2	165	Full	5825	0.04	0.04	12.23	12.12	15.19	30.00		-3.00		Pass	
HT20	MCS0	2	149	Full	5745	0.00	0.00	12.12	12.18	15.16	30.00		-3.00		Pass	
HT20	MCS0	2	157	Full	5785	0.00	0.00	12.15	12.09	15.13	30.00		-3.00		Pass	
HT20	MCS0	2	165	Full	5825	0.00	0.00	12.17	12.07	15.13	30.00		-3.00		Pass	
HT40	MCS0	2	151	Full	5755	0.00	0.00	12.31	12.18	15.26	30.00		-3.00		Pass	
HT40	MCS0	2	159	Full	5795	0.00	0.00	12.17	12.14	15.17	30.00		-3.00		Pass	
VHT20	MCS0	2	149	Full	5745	0.00	0.00	12.19	12.23	15.22	30.00		-3.00		Pass	
VHT20	MCS0	2	157	Full	5785	0.00	0.00	12.25	12.15	15.21	30.00		-3.00		Pass	
VHT20	MCS0	2	165	Full	5825	0.00	0.00	12.21	12.14	15.19	30.00		-3.00		Pass	
VHT40	MCS0	2	151	Full	5755	0.00	0.00	12.39	12.26	15.34	30.00		-3.00		Pass	
VHT40	MCS0	2	159	Full	5795	0.00	0.00	12.23	12.19	15.22	30.00		-3.00		Pass	
VHT80	MCS0	2	155	Full	5775	0.00	0.00	12.12	12.09	15.12	30.00		-3.00		Pass	
HE20	MCS0	2	149	Full	5745	0.00	0.00	12.26	12.18	15.23	30.00		-3.00		Pass	
HE20	MCS0	2	149	26/0	5745	0.00	0.00	12.11	12.38	15.26	30.00		-3.00		Pass	
HE20	MCS0	2	149	52/37	5745	0.00	0.00	12.04	12.24	15.15	30.00		-3.00		Pass	
HE20	MCS0	2	149	106/53	5745	0.00	0.00	12.09	12.26	15.19	30.00		-3.00		Pass	
HE20	MCS0	2	157	Full	5785	0.00	0.00	12.21	12.08	15.16	30.00		-3.00		Pass	
HE20	MCS0	2	165	Full	5825	0.00	0.00	12.23	12.12	15.19	30.00		-3.00		Pass	
HE20	MCS0	2	165	26/8	5825	0.00	0.00	12.11	12.02	15.08	30.00		-3.00		Pass	
HE20	MCS0	2	165	52/40	5825	0.00	0.00	12.03	12.07	15.06	30.00		-3.00		Pass	
HE20	MCS0	2	165	106/54	5825	0.00	0.00	12.06	12.13	15.11	30.00		-3.00		Pass	
HE40	MCS0	2	151	Full	5755	0.00	0.00	12.22	12.13	15.19	30.00		-3.00		Pass	
HE40	MCS0	2	151	242/61	5755	0.00	0.00	12.02	12.06	15.05	30.00		-3.00		Pass	
HE40	MCS0	2	159	Full	5795	0.00	0.00	12.12	12.16	15.15	30.00		-3.00		Pass	
HE40	MCS0	2	159	242/62	5795	0.00	0.00	12.00	12.08	15.05	30.00		-3.00		Pass	
HE80	MCS0	2	155	Full	5775	0.00	0.00	12.28	12.13	15.22	30.00		-3.00		Pass	
HE80	MCS0	2	155	484/65	5775	0.00	0.00	12.04	12.11	15.09	30.00		-3.00		Pass	
HE80	MCS0	2	155	484/66	5775	0.00	0.00	12.10	12.05	15.09	30.00		-3.00		Pass	

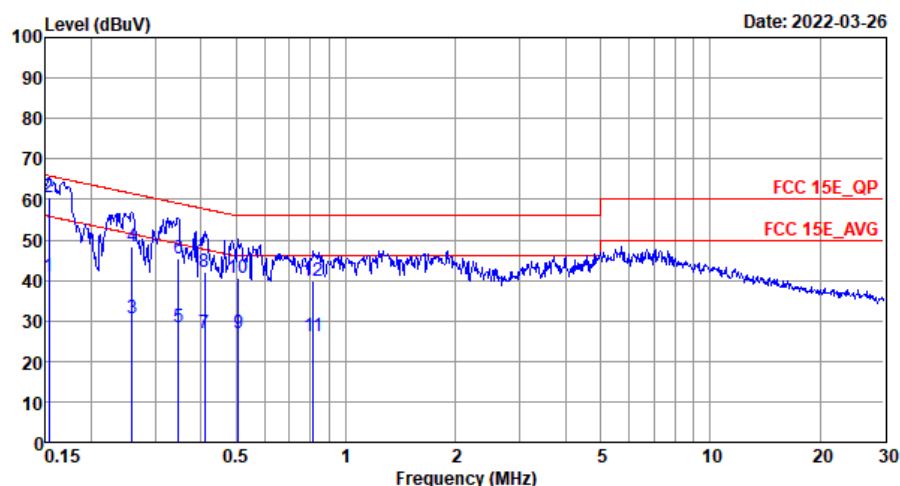
TEST RESULTS DATA
Power Spectral Density

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	0.04	0.04	2.22			0.45	30.00		0.01		Pass	
11a	6Mbps	2	157	Full	5785	0.04	0.04	2.22			0.56	30.00		0.01		Pass	
11a	6Mbps	2	165	Full	5825	0.04	0.04	2.22			0.26	30.00		0.01		Pass	
VHT20	MCS0	2	149	Full	5745	0.00	0.00	2.22			-0.05	30.00		0.01		Pass	
VHT20	MCS0	2	157	Full	5785	0.00	0.00	2.22			0.07	30.00		0.01		Pass	
VHT20	MCS0	2	165	Full	5825	0.00	0.00	2.22			-0.20	30.00		0.01		Pass	
VHT40	MCS0	2	151	Full	5755	0.00	0.00	2.22			-2.85	30.00		0.01		Pass	
VHT40	MCS0	2	159	Full	5795	0.00	0.00	2.22			-2.97	30.00		0.01		Pass	
VHT80	MCS0	2	155	Full	5775	0.00	0.00	2.22			-6.12	30.00		0.01		Pass	
HE20	MCS0	2	149	Full	5745	0.00	0.00	2.22			-0.34	30.00		0.01		Pass	
HE20	MCS0	2	149	26/0	5745	0.00	0.00	2.22			8.59	30.00		0.01		Pass	
HE20	MCS0	2	149	52/37	5745	0.00	0.00	2.22			5.42	30.00		0.01		Pass	
HE20	MCS0	2	149	106/53	5745	0.00	0.00	2.22			2.49	30.00		0.01		Pass	
HE20	MCS0	2	157	Full	5785	0.00	0.00	2.22			-0.21	30.00		0.01		Pass	
HE20	MCS0	2	165	Full	5825	0.00	0.00	2.22			-0.44	30.00		0.01		Pass	
HE20	MCS0	2	165	26/8	5825	0.00	0.00	2.22			8.50	30.00		0.01		Pass	
HE20	MCS0	2	165	52/40	5825	0.00	0.00	2.22			5.35	30.00		0.01		Pass	
HE20	MCS0	2	165	106/54	5825	0.00	0.00	2.22			2.47	30.00		0.01		Pass	
HE40	MCS0	2	151	Full	5755	0.00	0.00	2.22			-3.29	30.00		0.01		Pass	
HE40	MCS0	2	151	242/61	5755	0.00	0.00	2.22			-1.22	30.00		0.01		Pass	
HE40	MCS0	2	159	Full	5795	0.00	0.00	2.22		-3.39	30.00		0.01		Pass		
HE40	MCS0	2	159	242/62	5795	0.00	0.00	2.22		-1.36	30.00		0.01		Pass		
HE80	MCS0	2	155	Full	5775	0.00	0.00	2.22		-6.19	30.00		0.01		Pass		
HE80	MCS0	2	155	484/65	5775	0.00	0.00	2.22		-4.26	30.00		0.01		Pass		
HE80	MCS0	2	155	484/66	5775	0.00	0.00	2.22		-4.22	30.00		0.01		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.		

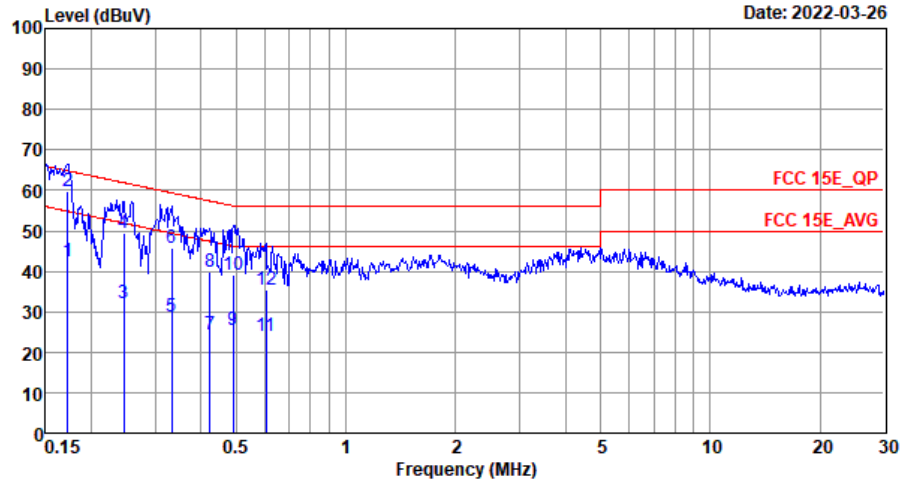


Site : C001-SZ
Condition: FCC 15E_QP LISN_20210901_L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	41.01	-14.81	55.82	20.00	10.20	10.81	Average
2 *	0.15	60.61	-5.21	65.82	39.60	10.20	10.81	QP
3	0.26	30.81	-20.66	51.47	10.00	10.18	10.63	Average
4	0.26	48.41	-13.06	61.47	27.60	10.18	10.63	QP
5	0.35	28.46	-20.59	49.05	7.20	10.08	11.18	Average
6	0.35	45.26	-13.79	59.05	24.00	10.08	11.18	QP
7	0.41	26.80	-20.84	47.64	5.20	10.10	11.50	Average
8	0.41	42.20	-15.44	57.64	20.60	10.10	11.50	QP
9	0.51	27.04	-18.96	46.00	5.10	10.12	11.82	Average
10	0.51	40.64	-15.36	56.00	18.70	10.12	11.82	QP
11	0.81	26.33	-19.67	46.00	5.50	10.11	10.72	Average
12	0.81	40.03	-15.97	56.00	19.20	10.11	10.72	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_20210901_N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.17	42.41	-12.45	54.86	21.60	10.30	10.51	Average
2 *	0.17	59.91	-4.95	64.86	39.10	10.30	10.51	QP
3	0.25	32.20	-19.71	51.91	11.41	10.25	10.54	Average
4	0.25	49.50	-12.41	61.91	28.71	10.25	10.54	QP
5	0.33	28.69	-20.71	49.40	7.41	10.18	11.10	Average
6	0.33	45.89	-13.51	59.40	24.61	10.18	11.10	QP
7	0.42	24.25	-23.12	47.37	2.50	10.19	11.56	Average
8	0.42	39.95	-17.42	57.37	18.20	10.19	11.56	QP
9	0.49	25.52	-20.62	46.14	3.50	10.19	11.83	Average
10	0.49	39.22	-16.92	56.14	17.20	10.19	11.83	QP
11	0.60	24.04	-21.96	46.00	2.39	10.24	11.41	Average
12	0.60	35.54	-20.46	56.00	13.89	10.24	11.41	QP

Note:

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



Appendix C. Radiated Spurious Emission

Band 4 - 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		5603.6	49.29	-19.01	68.3	40.19	34.51	7.97	33.38	119	123	P	H
		5672	49.85	-34.73	84.58	40.17	34.64	8.41	33.37	119	123	P	H
		5709.2	49.55	-58.23	107.78	39.72	34.7	8.49	33.36	119	123	P	H
		5725	52.03	-70.17	122.2	42.23	34.7	8.45	33.35	119	123	P	H
	*	5745	103.64	-	-	93.87	34.7	8.42	33.35	119	123	P	H
		5745	96.32	-	-	86.55	34.7	8.42	33.35	119	123	A	H
		5637.8	49.08	-19.22	68.3	39.68	34.58	8.19	33.37	262	236	P	V
		5672.2	49.48	-35.24	84.72	39.8	34.64	8.41	33.37	262	236	P	V
		5705.2	48.95	-57.71	106.66	39.12	34.7	8.49	33.36	262	236	P	V
		5724.8	52.32	-69.42	121.74	42.52	34.7	8.45	33.35	262	236	P	V
	*	5745	103.59	-	-	93.82	34.7	8.42	33.35	262	236	P	V
		5745	96.77	-	-	87	34.7	8.42	33.35	262	236	A	V
802.11a CH 157 5785MHz		5624.8	48.85	-19.45	68.3	39.6	34.55	8.08	33.38	111	124	P	H
		5664.4	50.13	-28.83	78.96	40.57	34.63	8.3	33.37	111	124	P	H
		5716	49.82	-59.86	109.68	39.98	34.7	8.49	33.35	111	124	P	H
		5720.4	48.88	-62.83	111.71	39.08	34.7	8.45	33.35	111	124	P	H
		5785	103.79	-	-	94.02	34.77	8.35	33.35	111	124	P	H
		5785	96.43	-	-	86.66	34.77	8.35	33.35	111	124	A	H
		5854.8	49	-62.26	111.26	38.98	34.91	8.44	33.33	111	124	P	H
		5864.6	49.1	-59.01	108.11	39.06	34.93	8.44	33.33	111	124	P	H
		5880.2	50.36	-50.98	101.34	40.26	34.96	8.47	33.33	111	124	P	H
		5928.4	49.26	-19.04	68.3	38.98	35.06	8.53	33.31	111	124	P	H
		5605.2	49.39	-18.91	68.3	40.29	34.51	7.97	33.38	270	235	P	V
		5689.8	48.9	-48.8	97.7	39.06	34.68	8.52	33.36	270	235	P	V
		5705.4	48.72	-57.99	106.71	38.89	34.7	8.49	33.36	270	235	P	V
		5724	48.36	-71.56	119.92	38.56	34.7	8.45	33.35	270	235	P	V
		5785	104.05	-	-	94.28	34.77	8.35	33.35	270	235	P	V



		5785	96.78	-	-	87.01	34.77	8.35	33.35	270	235	A	V
		5851.4	49.44	-69.57	119.01	39.46	34.9	8.41	33.33	270	235	P	V
		5855.6	49.25	-61.38	110.63	39.23	34.91	8.44	33.33	270	235	P	V
		5901.8	50.32	-35.01	85.33	40.14	35	8.5	33.32	270	235	P	V
		5931.8	49.77	-18.53	68.3	39.49	35.06	8.53	33.31	270	235	P	V
802.11a CH 165 5825MHz	*	5825	104.55	-	-	94.65	34.85	8.38	33.33	100	124	P	H
		5825	97.01	-	-	87.11	34.85	8.38	33.33	100	124	A	H
		5852.8	49.22	-66.6	115.82	39.23	34.91	8.41	33.33	100	124	P	H
		5870.6	49.81	-56.62	106.43	39.73	34.94	8.47	33.33	100	124	P	H
		5924.6	49.76	-18.73	68.49	39.49	35.05	8.53	33.31	100	124	P	H
		5930.4	49.64	-18.66	68.3	39.36	35.06	8.53	33.31	100	124	P	H
	*	5825	104.65	-	-	94.75	34.85	8.38	33.33	285	236	P	V
		5825	97.08	-	-	87.18	34.85	8.38	33.33	285	236	A	V
		5851.4	49.65	-69.36	119.01	39.67	34.9	8.41	33.33	285	236	P	V
		5873.2	50.04	-55.66	105.7	39.95	34.95	8.47	33.33	285	236	P	V
		5907	49.92	-31.56	81.48	39.72	35.01	8.51	33.32	285	236	P	V
		5944	49.69	-18.61	68.3	39.37	35.09	8.54	33.31	285	236	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 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	47.08	-26.92	74	50.96	38.29	11.54	53.71	-	-	P	H
		17235	50.12	-18.18	68.3	45.79	41.79	14.91	52.37	-	-	P	H
		11490	47.23	-26.77	74	51.11	38.29	11.54	53.71	-	-	P	V
		17235	50.35	-17.95	68.3	46.02	41.79	14.91	52.37	-	-	P	V
802.11a CH 157 5785MHz		11570	46.24	-27.76	74	49.94	38.34	11.61	53.65	-	-	P	H
		17355	50.93	-17.37	68.3	46.64	41.64	15.1	52.45	-	-	P	H
		11570	46.4	-27.6	74	50.1	38.34	11.61	53.65	-	-	P	V
		17355	49.38	-18.92	68.3	45.09	41.64	15.1	52.45	-	-	P	V
802.11a CH 165 5825MHz		11650	47.41	-26.59	74	50.96	38.39	11.67	53.61	-	-	P	H
		17475	50.84	-17.46	68.3	46.6	41.48	15.29	52.53	-	-	P	H
		11650	47.13	-26.87	74	50.68	38.39	11.67	53.61	-	-	P	V
		17475	50.83	-17.47	68.3	46.59	41.48	15.29	52.53	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 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		5614.2	49.7	-18.6	68.3	40.58	34.53	7.97	33.38	100	121	P	H
		5681.6	49.5	-42.16	91.66	39.8	34.66	8.41	33.37	100	121	P	H
		5717.8	49.36	-60.82	110.18	39.56	34.7	8.45	33.35	100	121	P	H
		5722.4	52.48	-63.79	116.27	42.68	34.7	8.45	33.35	100	121	P	H
	*	5745	104.88	-	-	95.11	34.7	8.42	33.35	100	121	P	H
		5745	97.88	-	-	88.11	34.7	8.42	33.35	100	121	A	H
		5635.8	49.34	-18.96	68.3	39.95	34.57	8.19	33.37	264	229	P	V
		5675	50.13	-36.66	86.79	40.44	34.65	8.41	33.37	264	229	P	V
		5712	50.21	-58.35	108.56	40.38	34.7	8.49	33.36	264	229	P	V
		5724	54.53	-65.39	119.92	44.73	34.7	8.45	33.35	264	229	P	V
	*	5745	105.07	-	-	95.3	34.7	8.42	33.35	264	229	P	V
		5745	98.09	-	-	88.32	34.7	8.42	33.35	264	229	A	V
802.11n HT20 CH 157 5785MHz		5620	50.01	-18.29	68.3	40.77	34.54	8.08	33.38	100	125	P	H
		5656.4	50.55	-22.49	73.04	41.01	34.61	8.3	33.37	100	125	P	H
		5705.8	48.75	-58.08	106.83	38.92	34.7	8.49	33.36	100	125	P	H
		5721.4	48.47	-65.52	113.99	38.67	34.7	8.45	33.35	100	125	P	H
	*	5785	102.23	-	-	92.46	34.77	8.35	33.35	100	125	P	H
		5785	94.76	-	-	84.99	34.77	8.35	33.35	100	125	A	H
		5852.2	49.46	-67.72	117.18	39.48	34.9	8.41	33.33	100	125	P	H
		5862.2	49.29	-59.49	108.78	39.26	34.92	8.44	33.33	100	125	P	H
		5906.4	49.7	-32.23	81.93	39.5	35.01	8.51	33.32	100	125	P	H
		5949.4	51.07	-17.23	68.3	40.74	35.1	8.54	33.31	100	125	P	H
		5615	50.53	-17.77	68.3	41.41	34.53	7.97	33.38	270	234	P	V
		5669.4	49.24	-33.42	82.66	39.56	34.64	8.41	33.37	270	234	P	V
		5702.8	48.44	-57.55	105.99	38.61	34.7	8.49	33.36	270	234	P	V
		5720.4	49.67	-62.04	111.71	39.87	34.7	8.45	33.35	270	234	P	V
	*	5785	103.44	-	-	93.67	34.77	8.35	33.35	270	234	P	V
		5785	95.22	-	-	85.45	34.77	8.35	33.35	270	234	A	V
		5854.2	49.26	-63.36	112.62	39.24	34.91	8.44	33.33	270	234	P	V
		5864.6	49.39	-58.72	108.11	39.35	34.93	8.44	33.33	270	234	P	V



		5923	49.52	-20.15	69.67	39.25	35.05	8.53	33.31	270	234	P	V
		5931.2	50.2	-18.1	68.3	39.92	35.06	8.53	33.31	270	234	P	V
802.11n HT20 CH 165 5825MHz	*	5825	103.61	-	-	93.71	34.85	8.38	33.33	100	124	P	H
		5825	95.11	-	-	85.21	34.85	8.38	33.33	100	124	A	H
		5850.4	49.05	-72.24	121.29	39.07	34.9	8.41	33.33	100	124	P	H
		5867.8	49.35	-57.86	107.21	39.3	34.94	8.44	33.33	100	124	P	H
		5888.2	50.2	-45.2	95.4	40.05	34.98	8.5	33.33	100	124	P	H
		5935.2	49.75	-18.55	68.3	39.46	35.07	8.53	33.31	100	124	P	H
	*	5825	103.14	-	-	93.24	34.85	8.38	33.33	285	236	P	V
		5825	95.14	-	-	85.24	34.85	8.38	33.33	285	236	A	V
		5851.6	48.54	-70.01	118.55	38.56	34.9	8.41	33.33	285	236	P	V
		5869.6	49.19	-57.52	106.71	39.14	34.94	8.44	33.33	285	236	P	V
		5917	50.06	-24.04	74.1	39.84	35.03	8.51	33.32	285	236	P	V
		5941.6	49.74	-18.56	68.3	39.43	35.08	8.54	33.31	285	236	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 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 CH 149 5745MHz		11490	46.47	-27.53	74	50.35	38.29	11.54	53.71	-	-	P	H
		17235	50.55	-17.75	68.3	46.22	41.79	14.91	52.37	-	-	P	H
		11490	47.01	-26.99	74	50.89	38.29	11.54	53.71	-	-	P	V
		17235	50.21	-18.09	68.3	45.88	41.79	14.91	52.37	-	-	P	V
802.11n HT20 CH 157 5785MHz		11570	46.73	-27.27	74	50.43	38.34	11.61	53.65	-	-	P	H
		17355	50.14	-18.16	68.3	45.85	41.64	15.1	52.45	-	-	P	H
		11570	46.9	-27.1	74	50.6	38.34	11.61	53.65	-	-	P	V
		17355	50.57	-17.73	68.3	46.28	41.64	15.1	52.45	-	-	P	V
802.11n HT20 CH 165 5825MHz		11650	45.65	-28.35	74	49.2	38.39	11.67	53.61	-	-	P	H
		17475	51.33	-16.97	68.3	47.09	41.48	15.29	52.53	-	-	P	H
		11650	48.35	-25.65	74	51.9	38.39	11.67	53.61	-	-	P	V
		17475	50.23	-18.07	68.3	45.99	41.48	15.29	52.53	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 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		5616.4	49.59	-18.71	68.3	40.36	34.53	8.08	33.38	100	124	P	H
		5689.8	49.59	-48.11	97.7	39.75	34.68	8.52	33.36	100	124	P	H
		5718.2	52.74	-57.56	110.3	42.94	34.7	8.45	33.35	100	124	P	H
		5723	54.06	-63.58	117.64	44.26	34.7	8.45	33.35	100	124	P	H
	*	5755	99.1	-	-	89.35	34.71	8.39	33.35	100	124	P	H
		5755	91.6	-	-	81.85	34.71	8.39	33.35	100	124	A	H
		5851.2	49.52	-69.94	119.46	39.54	34.9	8.41	33.33	100	124	P	H
		5863.6	49.3	-59.09	108.39	39.26	34.93	8.44	33.33	100	124	P	H
		5914.8	50.75	-24.97	75.72	40.53	35.03	8.51	33.32	100	124	P	H
		5937.8	51.16	-17.14	68.3	40.86	35.08	8.53	33.31	100	124	P	H
		5649.6	49.78	-18.52	68.3	40.25	34.6	8.3	33.37	324	240	P	V
		5673	50.65	-34.66	85.31	40.96	34.65	8.41	33.37	324	240	P	V
		5715.6	52.55	-57.02	109.57	42.71	34.7	8.49	33.35	324	240	P	V
		5721.2	53.92	-59.62	113.54	44.12	34.7	8.45	33.35	324	240	P	V
	*	5755	100.41	-	-	90.66	34.71	8.39	33.35	324	240	P	V
		5755	91.9	-	-	82.15	34.71	8.39	33.35	324	240	A	V
		5851.8	48.59	-69.51	118.1	38.61	34.9	8.41	33.33	324	240	P	V
		5857	49.92	-60.32	110.24	39.9	34.91	8.44	33.33	324	240	P	V
		5888.6	51.93	-43.17	95.1	41.78	34.98	8.5	33.33	324	240	P	V
		5931.4	49.99	-18.31	68.3	39.71	35.06	8.53	33.31	324	240	P	V
802.11n HT40 CH 159 5795MHz		5647	49.22	-19.08	68.3	39.81	34.59	8.19	33.37	110	122	P	H
		5691.6	49.65	-49.37	99.02	39.81	34.68	8.52	33.36	110	122	P	H
		5707.2	49.67	-57.55	107.22	39.84	34.7	8.49	33.36	110	122	P	H
		5723.2	47.96	-70.14	118.1	38.16	34.7	8.45	33.35	110	122	P	H
	*	5795	99.41	-	-	89.64	34.79	8.32	33.34	110	122	P	H
		5795	91.66	-	-	81.89	34.79	8.32	33.34	110	122	A	H
		5850.2	48.32	-73.42	121.74	38.34	34.9	8.41	33.33	110	122	P	H
		5855.4	50.56	-60.13	110.69	40.54	34.91	8.44	33.33	110	122	P	H
		5910.2	51.1	-28.02	79.12	40.89	35.02	8.51	33.32	110	122	P	H
		5935.4	49.97	-18.33	68.3	39.68	35.07	8.53	33.31	110	122	P	H



		5630.8	50.29	-18.01	68.3	41.03	34.56	8.08	33.38	302	233	P	V
		5688.6	49.34	-47.48	96.82	39.5	34.68	8.52	33.36	302	233	P	V
		5705	49.59	-57.01	106.6	39.76	34.7	8.49	33.36	302	233	P	V
		5723.6	48.97	-70.04	119.01	39.17	34.7	8.45	33.35	302	233	P	V
	*	5795	99.66	-	-	89.89	34.79	8.32	33.34	302	233	P	V
		5795	91.66	-	-	81.89	34.79	8.32	33.34	302	233	A	V
		5852.8	48.42	-67.4	115.82	38.43	34.91	8.41	33.33	302	233	P	V
		5860.2	49.93	-59.41	109.34	39.9	34.92	8.44	33.33	302	233	P	V
		5913.6	50.65	-25.96	76.61	40.43	35.03	8.51	33.32	302	233	P	V
		5929.2	50.27	-18.03	68.3	39.99	35.06	8.53	33.31	302	233	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Band 4 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 HT40 CH 151 5755MHz		11510	46.95	-27.05	74	50.77	38.31	11.56	53.69	-	-	P	H
		17265	49.83	-18.47	68.3	45.5	41.76	14.96	52.39	-	-	P	H
		11510	47.1	-26.9	74	50.92	38.31	11.56	53.69	-	-	P	V
		17265	49.76	-18.54	68.3	45.43	41.76	14.96	52.39	-	-	P	V
802.11n HT40 CH 159 5795MHz		11590	46.22	-27.78	74	49.88	38.35	11.63	53.64	-	-	P	H
		17385	50.09	-18.21	68.3	45.81	41.6	15.15	52.47	-	-	P	H
		11590	46.94	-27.06	74	50.6	38.35	11.63	53.64	-	-	P	V
		17385	50.3	-18	68.3	46.02	41.6	15.15	52.47	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 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		5603.6	48.96	-19.34	68.3	39.86	34.51	7.97	33.38	113	123	P	H
		5689.2	52.66	-44.6	97.26	42.82	34.68	8.52	33.36	113	123	P	H
		5709.6	52.34	-55.55	107.89	42.51	34.7	8.49	33.36	113	123	P	H
		5723.4	52.66	-65.89	118.55	42.86	34.7	8.45	33.35	113	123	P	H
	*	5775	96.15	-	-	86.4	34.75	8.35	33.35	113	123	P	H
		5775	88.64	-	-	78.89	34.75	8.35	33.35	113	123	A	H
		5853.4	50.67	-63.78	114.45	40.68	34.91	8.41	33.33	113	123	P	H
		5860.4	50.7	-58.59	109.29	40.67	34.92	8.44	33.33	113	123	P	H
		5886	49.81	-47.22	97.03	39.7	34.97	8.47	33.33	113	123	P	H
		5928.2	50	-18.3	68.3	39.72	35.06	8.53	33.31	113	123	P	H
		5625.8	50.05	-18.25	68.3	40.8	34.55	8.08	33.38	352	220	P	V
		5697	50.9	-52.1	103	41.05	34.69	8.52	33.36	352	220	P	V
		5718.4	52.26	-58.09	110.35	42.46	34.7	8.45	33.35	352	220	P	V
		5725	52.88	-69.32	122.2	43.08	34.7	8.45	33.35	352	220	P	V
	*	5775	95.61	-	-	85.86	34.75	8.35	33.35	352	220	P	V
		5775	88.2	-	-	78.45	34.75	8.35	33.35	352	220	A	V
		5853.8	50.53	-63.01	113.54	40.51	34.91	8.44	33.33	352	220	P	V
		5872	50.33	-55.71	106.04	40.25	34.94	8.47	33.33	352	220	P	V
		5883.2	50.99	-48.12	99.11	40.88	34.97	8.47	33.33	352	220	P	V
		5947	49.83	-18.47	68.3	39.51	35.09	8.54	33.31	352	220	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

**Band 4 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	48.08	-25.92	74	51.81	38.33	11.6	53.66	-	-	P	H
VHT80		17325	50.63	-17.67	68.3	46.33	41.68	15.05	52.43	-	-	P	H
CH 155		11550	46.83	-27.17	74	50.56	38.33	11.6	53.66	-	-	P	V
5775MHz		17325	50.22	-18.08	68.3	45.92	41.68	15.05	52.43	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE20_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 HE20 Full CH 149 5745MHz		5615.2	49.06	-19.24	68.3	39.94	34.53	7.97	33.38	106	125	P	H
		5671.4	49.55	-34.58	84.13	39.87	34.64	8.41	33.37	106	125	P	H
		5710.8	50.28	-57.95	108.23	40.45	34.7	8.49	33.36	106	125	P	H
		5724.8	54.02	-67.72	121.74	44.22	34.7	8.45	33.35	106	125	P	H
	*	5745	102.21	-	-	92.44	34.7	8.42	33.35	106	125	P	H
		5745	94.55	-	-	84.78	34.7	8.42	33.35	106	125	A	H
		5627.8	49.37	-18.93	68.3	40.11	34.56	8.08	33.38	262	234	P	V
		5680	50.11	-40.37	90.48	40.41	34.66	8.41	33.37	262	234	P	V
		5714.8	49.92	-59.43	109.35	40.08	34.7	8.49	33.35	262	234	P	V
		5725	54.16	-68.04	122.2	44.36	34.7	8.45	33.35	262	234	P	V
	*	5745	102.59	-	-	92.82	34.7	8.42	33.35	262	234	P	V
		5745	94.21	-	-	84.44	34.7	8.42	33.35	262	234	A	V
802.11ax HE20 Full CH 157 5785MHz		5633.4	49.09	-19.21	68.3	39.71	34.57	8.19	33.38	100	125	P	H
		5660	50.14	-25.57	75.71	40.59	34.62	8.3	33.37	100	125	P	H
		5718	48.93	-61.31	110.24	39.13	34.7	8.45	33.35	100	125	P	H
		5722.2	48.25	-67.57	115.82	38.45	34.7	8.45	33.35	100	125	P	H
	*	5785	103.13	-	-	93.36	34.77	8.35	33.35	100	125	P	H
		5785	94.66	-	-	84.89	34.77	8.35	33.35	100	125	A	H
		5852.6	50.19	-66.08	116.27	40.2	34.91	8.41	33.33	100	125	P	H
		5862.8	49.23	-59.38	108.61	39.19	34.93	8.44	33.33	100	125	P	H
		5878.2	50.84	-51.98	102.82	40.74	34.96	8.47	33.33	100	125	P	H
		5942.6	49.73	-18.57	68.3	39.41	35.09	8.54	33.31	100	125	P	H
		5615.6	49.87	-18.43	68.3	40.64	34.53	8.08	33.38	270	233	P	V
		5664.8	49.66	-29.6	79.26	40.1	34.63	8.3	33.37	270	233	P	V
		5704.8	49.04	-57.51	106.55	39.21	34.7	8.49	33.36	270	233	P	V
		5723.2	48.85	-69.25	118.1	39.05	34.7	8.45	33.35	270	233	P	V
	*	5785	103.4	-	-	93.63	34.77	8.35	33.35	270	233	P	V
		5785	95.1	-	-	85.33	34.77	8.35	33.35	270	233	A	V
		5853.6	50	-63.99	113.99	39.98	34.91	8.44	33.33	270	233	P	V
		5857.6	50.25	-59.82	110.07	40.22	34.92	8.44	33.33	270	233	P	V



		5877.4	49.72	-53.7	103.42	39.63	34.95	8.47	33.33	270	233	P	V
		5927.2	49.99	-18.31	68.3	39.72	35.05	8.53	33.31	270	233	P	V
802.11ax HE20 Full CH 165 5825MHz	*	5825	104.38	-	-	94.48	34.85	8.38	33.33	100	124	P	H
		5825	94.78	-	-	84.88	34.85	8.38	33.33	100	124	A	H
		5850	49.14	-73.06	122.2	39.16	34.9	8.41	33.33	100	124	P	H
		5875	49.6	-55.6	105.2	39.51	34.95	8.47	33.33	100	124	P	H
		5907.2	49.81	-31.53	81.34	39.61	35.01	8.51	33.32	100	124	P	H
		5929.4	50.46	-17.84	68.3	40.18	35.06	8.53	33.31	100	124	P	H
	*	5825	103.52	-	-	93.62	34.85	8.38	33.33	284	236	P	V
		5825	94.67	-	-	84.77	34.85	8.38	33.33	284	236	A	V
		5850.4	49.85	-71.44	121.29	39.87	34.9	8.41	33.33	284	236	P	V
		5873	50.27	-55.49	105.76	40.18	34.95	8.47	33.33	284	236	P	V
		5877.2	51.05	-52.52	103.57	40.96	34.95	8.47	33.33	284	236	P	V
		5929.8	49.97	-18.33	68.3	39.69	35.06	8.53	33.31	284	236	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 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	46.19	-27.81	74	50.07	38.29	11.54	53.71	-	-	P	H
HE20 Full		17235	50.66	-17.64	68.3	46.33	41.79	14.91	52.37	-	-	P	H
CH 149		11490	46.56	-27.44	74	50.44	38.29	11.54	53.71	-	-	P	V
5745MHz		17235	50.41	-17.89	68.3	46.08	41.79	14.91	52.37	-	-	P	V
802.11ax		11570	46.8	-27.2	74	50.5	38.34	11.61	53.65	-	-	P	H
HE20 Full		17355	49.87	-18.43	68.3	45.58	41.64	15.1	52.45	-	-	P	H
CH 157		11570	45.85	-28.15	74	49.55	38.34	11.61	53.65	-	-	P	V
5785MHz		17355	49.81	-18.49	68.3	45.52	41.64	15.1	52.45	-	-	P	V
802.11ax		11650	46.4	-27.6	74	49.95	38.39	11.67	53.61	-	-	P	H
HE20 Full		17475	50.2	-18.1	68.3	45.96	41.48	15.29	52.53	-	-	P	H
CH 165		11650	48.04	-25.96	74	51.59	38.39	11.67	53.61	-	-	P	V
5825MHz		17475	50.74	-17.56	68.3	46.5	41.48	15.29	52.53	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE20_Partial 106 (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 HE20 Partial 106/53 CH 149 5745MHz		5619.8	49.58	-18.72	68.3	40.34	34.54	8.08	33.38	100	120	P	H
		5668	50.23	-31.39	81.62	40.55	34.64	8.41	33.37	100	120	P	H
		5720	53.21	-57.59	110.8	43.41	34.7	8.45	33.35	100	120	P	H
		5721.2	51.67	-61.87	113.54	41.87	34.7	8.45	33.35	100	120	P	H
		5745	106.97	-	-	97.2	34.7	8.42	33.35	100	120	P	H
		5745	98.66	-	-	88.89	34.7	8.42	33.35	100	120	A	H
		5642.4	50.33	-17.97	68.3	40.93	34.58	8.19	33.37	309	239	P	V
		5692.2	49.99	-49.48	99.47	40.15	34.68	8.52	33.36	309	239	P	V
		5720	56.81	-53.99	110.8	47.01	34.7	8.45	33.35	309	239	P	V
		5723.6	57.6	-61.41	119.01	47.8	34.7	8.45	33.35	309	239	P	V
		5745	105.52	-	-	95.75	34.7	8.42	33.35	309	239	P	V
		5745	98.33	-	-	88.56	34.7	8.42	33.35	309	239	A	V
802.11ax HE20 Partial 106/54 CH 165 5825MHz		5825	106.57	-	-	96.67	34.85	8.38	33.33	100	124	P	H
		5825	98.88	-	-	88.98	34.85	8.38	33.33	100	124	A	H
		5851.4	50.86	-68.15	119.01	40.88	34.9	8.41	33.33	100	124	P	H
		5856.2	50.55	-59.91	110.46	40.53	34.91	8.44	33.33	100	124	P	H
		5924.8	51.19	-17.16	68.35	40.92	35.05	8.53	33.31	100	124	P	H
		5941.4	50.03	-18.27	68.3	39.72	35.08	8.54	33.31	100	124	P	H
		5825	107.44	-	-	97.54	34.85	8.38	33.33	269	234	P	V
		5825	99.68	-	-	89.78	34.85	8.38	33.33	269	234	A	V
		5851.6	50.22	-68.33	118.55	40.24	34.9	8.41	33.33	269	234	P	V
		5873.4	50.9	-54.75	105.65	40.81	34.95	8.47	33.33	269	234	P	V
		5878.8	51.25	-51.13	102.38	41.15	34.96	8.47	33.33	269	234	P	V
		5938.4	49.99	-18.31	68.3	39.69	35.08	8.53	33.31	269	234	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE20_Partial 106 (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 106/53 CH 149 5745MHz		11490	46.62	-27.38	74	50.5	38.29	11.54	53.71	-	-	P	H
		17235	50.84	-17.46	68.3	46.51	41.79	14.91	52.37	-	-	P	H
		11490	46.55	-27.45	74	50.43	38.29	11.54	53.71	-	-	P	V
		17235	51.29	-17.01	68.3	46.96	41.79	14.91	52.37	-	-	P	V
802.11ax HE20 Partial 106/54 CH 165 5825MHz		11650	46.9	-27.1	74	50.45	38.39	11.67	53.61	-	-	P	H
		17475	50.14	-18.16	68.3	45.9	41.48	15.29	52.53	-	-	P	H
		11650	46.51	-27.49	74	50.06	38.39	11.67	53.61	-	-	P	V
		17475	49.58	-18.72	68.3	45.34	41.48	15.29	52.53	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 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		5633	49.29	-19.01	68.3	39.91	34.57	8.19	33.38	100	123	P	H
		5672	49.95	-34.63	84.58	40.27	34.64	8.41	33.37	100	123	P	H
		5717	51.42	-58.54	109.96	41.58	34.7	8.49	33.35	100	123	P	H
		5724.8	53.29	-68.45	121.74	43.49	34.7	8.45	33.35	100	123	P	H
	*	5755	99.86	-	-	90.11	34.71	8.39	33.35	100	123	P	H
		5755	91.05	-	-	81.3	34.71	8.39	33.35	100	123	A	H
		5851.4	49.13	-69.88	119.01	39.15	34.9	8.41	33.33	100	123	P	H
		5874.8	49.43	-55.83	105.26	39.34	34.95	8.47	33.33	100	123	P	H
		5881.6	49.98	-50.32	100.3	39.88	34.96	8.47	33.33	100	123	P	H
		5948.4	50.27	-18.03	68.3	39.94	35.1	8.54	33.31	100	123	P	H
		5613.6	49.46	-18.84	68.3	40.34	34.53	7.97	33.38	323	234	P	V
		5698.4	51.11	-52.91	104.02	41.25	34.7	8.52	33.36	323	234	P	V
		5718	52.79	-57.45	110.24	42.99	34.7	8.45	33.35	323	234	P	V
		5721.6	55.8	-58.65	114.45	46	34.7	8.45	33.35	323	234	P	V
	*	5755	100.16	-	-	90.41	34.71	8.39	33.35	323	234	P	V
		5755	91.63	-	-	81.88	34.71	8.39	33.35	323	234	A	V
		5851	49.31	-70.61	119.92	39.33	34.9	8.41	33.33	323	234	P	V
		5861.4	50.36	-58.65	109.01	40.33	34.92	8.44	33.33	323	234	P	V
		5883.4	49.82	-49.14	98.96	39.71	34.97	8.47	33.33	323	234	P	V
		5929	49.14	-19.16	68.3	38.86	35.06	8.53	33.31	323	234	P	V
802.11ax HE40 Full CH 159 5795MHz		5622.8	49.32	-18.98	68.3	40.07	34.55	8.08	33.38	100	124	P	H
		5657.2	50.17	-23.46	73.63	40.63	34.61	8.3	33.37	100	124	P	H
		5715.2	49.16	-60.3	109.46	39.32	34.7	8.49	33.35	100	124	P	H
		5720	48.24	-62.56	110.8	38.44	34.7	8.45	33.35	100	124	P	H
	*	5795	99.01	-	-	89.24	34.79	8.32	33.34	100	124	P	H
		5795	91.12	-	-	81.35	34.79	8.32	33.34	100	124	A	H
		5850	50.26	-71.94	122.2	40.28	34.9	8.41	33.33	100	124	P	H
		5871.4	49.3	-56.91	106.21	39.22	34.94	8.47	33.33	100	124	P	H
		5905.6	49.69	-32.83	82.52	39.49	35.01	8.51	33.32	100	124	P	H
		5935.4	50.44	-17.86	68.3	40.15	35.07	8.53	33.31	100	124	P	H



		5625.4	49.47	-18.83	68.3	40.22	34.55	8.08	33.38	302	233	P	V
		5664.6	49.46	-29.65	79.11	39.9	34.63	8.3	33.37	302	233	P	V
		5719	49.16	-61.36	110.52	39.36	34.7	8.45	33.35	302	233	P	V
		5724.4	49.1	-71.73	120.83	39.3	34.7	8.45	33.35	302	233	P	V
	*	5795	101.17	-	-	91.4	34.79	8.32	33.34	302	233	P	V
		5795	91.84	-	-	82.07	34.79	8.32	33.34	302	233	A	V
		5850.6	48.25	-72.58	120.83	38.27	34.9	8.41	33.33	302	233	P	V
		5859.4	49.59	-59.98	109.57	39.56	34.92	8.44	33.33	302	233	P	V
		5918.8	50.27	-22.5	72.77	40.04	35.04	8.51	33.32	302	233	P	V
		5925.2	50.11	-18.19	68.3	39.84	35.05	8.53	33.31	302	233	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 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	46.99	-27.01	74	50.81	38.31	11.56	53.69	-	-	P	H
HE40 Full		17265	49.85	-18.45	68.3	45.52	41.76	14.96	52.39	-	-	P	H
CH 151		11510	46.41	-27.59	74	50.23	38.31	11.56	53.69	-	-	P	V
5755MHz		17265	49.57	-18.73	68.3	45.24	41.76	14.96	52.39	-	-	P	V
802.11ax		11590	46.07	-27.93	74	49.73	38.35	11.63	53.64	-	-	P	H
HE40 Full		17385	50.31	-17.99	68.3	46.03	41.6	15.15	52.47	-	-	P	H
CH 159		11590	46.34	-27.66	74	50	38.35	11.63	53.64	-	-	P	V
5795MHz		17385	50.38	-17.92	68.3	46.1	41.6	15.15	52.47	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE40_Partial 242 (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 262/61 CH 151 5755MHz		5634.6	50.42	-17.88	68.3	41.04	34.57	8.19	33.38	100	123	P	H
		5682.2	50.36	-41.74	92.1	40.66	34.66	8.41	33.37	100	123	P	H
		5717.2	59.13	-50.89	110.02	49.29	34.7	8.49	33.35	100	123	P	H
		5721.6	58.83	-55.62	114.45	49.03	34.7	8.45	33.35	100	123	P	H
		5755	103.31	-	-	93.56	34.71	8.39	33.35	100	123	P	H
		5755	95.09	-	-	85.34	34.71	8.39	33.35	100	123	A	H
		5854.2	49.47	-63.15	112.62	39.45	34.91	8.44	33.33	100	123	P	H
		5865.6	49.48	-58.35	107.83	39.44	34.93	8.44	33.33	100	123	P	H
		5904.6	50.3	-32.96	83.26	40.1	35.01	8.51	33.32	100	123	P	H
		5945.6	49.85	-18.45	68.3	39.53	35.09	8.54	33.31	100	123	P	H
		5618.6	50.24	-18.06	68.3	41	34.54	8.08	33.38	291	239	P	V
		5700	51.04	-54.16	105.2	41.18	34.7	8.52	33.36	291	239	P	V
		5710.6	57.48	-50.69	108.17	47.65	34.7	8.49	33.36	291	239	P	V
		5724.8	60.78	-60.96	121.74	50.98	34.7	8.45	33.35	291	239	P	V
		5755	105.92	-	-	96.17	34.71	8.39	33.35	291	239	P	V
		5755	98.29	-	-	88.54	34.71	8.39	33.35	291	239	A	V
		5853.6	49.82	-64.17	113.99	39.8	34.91	8.44	33.33	291	239	P	V
		5864.4	50.82	-57.35	108.17	40.78	34.93	8.44	33.33	291	239	P	V
		5913.6	51.39	-25.22	76.61	41.17	35.03	8.51	33.32	291	239	P	V
		5933.4	50.83	-17.47	68.3	40.54	35.07	8.53	33.31	291	239	P	V
802.11ax HE40 Partial 262/62 CH 159 5795MHz		5607.8	50.25	-18.05	68.3	41.14	34.52	7.97	33.38	112	119	P	H
		5670.8	50.56	-33.13	83.69	40.88	34.64	8.41	33.37	112	119	P	H
		5702.6	49.87	-56.06	105.93	40.04	34.7	8.49	33.36	112	119	P	H
		5721.2	50.32	-63.22	113.54	40.52	34.7	8.45	33.35	112	119	P	H
		5795	102.49	-	-	92.72	34.79	8.32	33.34	112	119	P	H
		5795	94.89	-	-	85.12	34.79	8.32	33.34	112	119	A	H
		5851.4	50.26	-68.75	119.01	40.28	34.9	8.41	33.33	112	119	P	H
		5871.2	50.46	-55.8	106.26	40.38	34.94	8.47	33.33	112	119	P	H
		5911	51.21	-27.32	78.53	41	35.02	8.51	33.32	112	119	P	H
		5934.4	50.55	-17.75	68.3	40.26	35.07	8.53	33.31	112	119	P	H



		5627.8	50.24	-18.06	68.3	40.98	34.56	8.08	33.38	277	240	P	V
		5666	51.86	-28.28	80.14	42.3	34.63	8.3	33.37	277	240	P	V
		5717.6	51.27	-58.86	110.13	41.47	34.7	8.45	33.35	277	240	P	V
		5722.2	50.46	-65.36	115.82	40.66	34.7	8.45	33.35	277	240	P	V
		5795	104.58	-	-	94.81	34.79	8.32	33.34	277	240	P	V
		5795	96.54	-	-	86.77	34.79	8.32	33.34	277	240	A	V
		5851.6	50.16	-68.39	118.55	40.18	34.9	8.41	33.33	277	240	P	V
		5866.2	50.45	-57.21	107.66	40.41	34.93	8.44	33.33	277	240	P	V
		5905.2	51.87	-30.94	82.81	41.67	35.01	8.51	33.32	277	240	P	V
		5928.4	50.43	-17.87	68.3	40.15	35.06	8.53	33.31	277	240	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE40_Partial 242 (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 262/61 CH 151 5755MHz		11510	46.57	-27.43	74	50.39	38.31	11.56	53.69	-	-	P	H
		17265	50	-18.3	68.3	45.67	41.76	14.96	52.39	-	-	P	H
		11510	46.58	-27.42	74	50.4	38.31	11.56	53.69	-	-	P	V
		17265	50.76	-17.54	68.3	46.43	41.76	14.96	52.39	-	-	P	V
802.11ax HE40 Partial 262/62 CH 159 5795MHz		11590	47.27	-26.73	74	50.93	38.35	11.63	53.64	-	-	P	H
		17385	49.2	-19.1	68.3	44.92	41.6	15.15	52.47	-	-	P	H
		11590	46.57	-27.43	74	50.23	38.35	11.63	53.64	-	-	P	V
		17385	50.83	-17.47	68.3	46.55	41.6	15.15	52.47	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 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		5639	49.04	-19.26	68.3	39.64	34.58	8.19	33.37	100	125	P	H
		5695.8	52.7	-49.41	102.11	42.85	34.69	8.52	33.36	100	125	P	H
		5712.4	53.59	-55.08	108.67	43.76	34.7	8.49	33.36	100	125	P	H
		5722	53.71	-61.65	115.36	43.91	34.7	8.45	33.35	100	125	P	H
	*	5775	95.77	-	-	86.02	34.75	8.35	33.35	100	125	P	H
		5775	88.41	-	-	78.66	34.75	8.35	33.35	100	125	A	H
		5851.4	51.13	-67.88	119.01	41.15	34.9	8.41	33.33	100	125	P	H
		5855.6	50.36	-60.27	110.63	40.34	34.91	8.44	33.33	100	125	P	H
		5881.8	50.1	-50.05	100.15	40	34.96	8.47	33.33	100	125	P	H
		5932.8	50.81	-17.49	68.3	40.52	35.07	8.53	33.31	100	125	P	H
		5615.8	49.77	-18.53	68.3	40.54	34.53	8.08	33.38	269	235	P	V
		5692.6	53.07	-46.69	99.76	43.22	34.69	8.52	33.36	269	235	P	V
		5717.6	54.88	-55.25	110.13	45.08	34.7	8.45	33.35	269	235	P	V
		5725	53.71	-68.49	122.2	43.91	34.7	8.45	33.35	269	235	P	V
	*	5775	96.97	-	-	87.22	34.75	8.35	33.35	269	235	P	V
		5775	88.74	-	-	78.99	34.75	8.35	33.35	269	235	A	V
		5853.2	51.48	-63.42	114.9	41.49	34.91	8.41	33.33	269	235	P	V
		5858.8	51.04	-58.69	109.73	41.01	34.92	8.44	33.33	269	235	P	V
		5884.8	51.67	-46.25	97.92	41.56	34.97	8.47	33.33	269	235	P	V
		5935.4	50.08	-18.22	68.3	39.79	35.07	8.53	33.31	269	235	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 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	47.14	-26.86	74	50.87	38.33	11.6	53.66	-	-	P	H
HE80 Full		17325	49.74	-18.56	68.3	45.44	41.68	15.05	52.43	-	-	P	H
CH 155		11550	46.95	-27.05	74	50.68	38.33	11.6	53.66	-	-	P	V
5775MHz		17325	49.65	-18.65	68.3	45.35	41.68	15.05	52.43	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE80_Partial 484 (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 484/65 CH 155 5775MHz		5620.2	50.2	-18.1	68.3	40.96	34.54	8.08	33.38	100	120	P	H
		5686.8	56.04	-39.45	95.49	46.22	34.67	8.52	33.37	100	120	P	H
		5717.4	58.16	-51.91	110.07	48.32	34.7	8.49	33.35	100	120	P	H
		5724.6	63.31	-57.98	121.29	53.51	34.7	8.45	33.35	100	120	P	H
		5775	99.86	-	-	90.11	34.75	8.35	33.35	100	120	P	H
		5775	92.07	-	-	82.32	34.75	8.35	33.35	100	120	A	H
		5850.4	53.31	-67.98	121.29	43.33	34.9	8.41	33.33	100	120	P	H
		5858.8	54.04	-55.69	109.73	44.01	34.92	8.44	33.33	100	120	P	H
		5902.8	50.73	-33.86	84.59	40.54	35.01	8.5	33.32	100	120	P	H
		5946.8	51.84	-16.46	68.3	41.52	35.09	8.54	33.31	100	120	P	H
		5645.6	51.47	-16.83	68.3	42.06	34.59	8.19	33.37	278	235	P	V
		5685.6	57.96	-36.65	94.61	48.14	34.67	8.52	33.37	278	235	P	V
		5720	60.73	-50.07	110.8	50.93	34.7	8.45	33.35	278	235	P	V
		5724.4	65.68	-55.15	120.83	55.88	34.7	8.45	33.35	278	235	P	V
		5775	101.53	-	-	91.78	34.75	8.35	33.35	278	235	P	V
		5775	93.09	-	-	83.34	34.75	8.35	33.35	278	235	A	V
		5850	53.01	-69.19	122.2	43.03	34.9	8.41	33.33	278	235	P	V
		5862.4	52.73	-56	108.73	42.7	34.92	8.44	33.33	278	235	P	V
		5877.8	51.38	-51.74	103.12	41.28	34.96	8.47	33.33	278	235	P	V
		5940.4	50.71	-17.59	68.3	40.4	35.08	8.54	33.31	278	235	P	V
Remark	1. No other spurious found. 2. 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 484/66 CH 155 5775MHz		5646.2	50.9	-17.4	68.3	41.49	34.59	8.19	33.37	111	123	P	H
		5681.8	55.57	-36.24	91.81	45.87	34.66	8.41	33.37	111	123	P	H
		5716.8	57.33	-52.58	109.91	47.49	34.7	8.49	33.35	111	123	P	H
		5724.2	57.87	-62.51	120.38	48.07	34.7	8.45	33.35	111	123	P	H
		5775	101.3	-	-	91.55	34.75	8.35	33.35	111	123	P	H
		5775	91.98	-	-	82.23	34.75	8.35	33.35	111	123	A	H
		5852.4	49.59	-67.14	116.73	39.61	34.9	8.41	33.33	111	123	P	H
		5856.4	51.14	-59.27	110.41	41.12	34.91	8.44	33.33	111	123	P	H
		5892.4	50.99	-41.3	92.29	40.84	34.98	8.5	33.33	111	123	P	H
		5930.6	50.88	-17.42	68.3	40.6	35.06	8.53	33.31	111	123	P	H
		5626	50.38	-17.92	68.3	41.13	34.55	8.08	33.38	278	235	P	V
		5686.4	57.63	-37.57	95.2	47.81	34.67	8.52	33.37	278	235	P	V
		5716.8	59.93	-49.98	109.91	50.09	34.7	8.49	33.35	278	235	P	V
		5720.2	60.18	-51.08	111.26	50.38	34.7	8.45	33.35	278	235	P	V
		5775	101.22	-	-	91.47	34.75	8.35	33.35	278	235	P	V
		5775	92.94	-	-	83.19	34.75	8.35	33.35	278	235	A	V
		5852	49.49	-68.15	117.64	39.51	34.9	8.41	33.33	278	235	P	V
		5855.4	52.04	-58.65	110.69	42.02	34.91	8.44	33.33	278	235	P	V
		5898.4	51.25	-36.6	87.85	41.07	35	8.5	33.32	278	235	P	V
		5930.8	50.12	-18.18	68.3	39.84	35.06	8.53	33.31	278	235	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Band 4 5725~5850MHz

WIFI 802.11ax HE80_Partial 484 (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	46.32	-27.68	74	50.05	38.33	11.6	53.66	-	-	P	H
HE80 Partial		17325	48.4	-19.9	68.3	44.1	41.68	15.05	52.43	-	-	P	H
484/65		11550	45.59	-28.41	74	49.32	38.33	11.6	53.66	-	-	P	V
CH 155		17325	50.55	-17.75	68.3	46.25	41.68	15.05	52.43	-	-	P	V
5775MHz		11550	47.14	-26.86	74	50.87	38.33	11.6	53.66	-	-	P	H
HE80 Partial		17325	49.74	-18.56	68.3	45.44	41.68	15.05	52.43	-	-	P	H
484/66		11550	46.95	-27.05	74	50.68	38.33	11.6	53.66	-	-	P	V
CH 155		17325	49.65	-18.65	68.3	45.35	41.68	15.05	52.43	-	-	P	V
5775MHz													
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

WIFI 802.11ax HE80_Partial 484 (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)
802.11ax HE80 Partial 484 LF		50.37	21.31	-18.69	40	36.96	15.42	0.63	31.7	-	-	P	H
		91.11	26.53	-16.97	43.5	41.03	16.11	0.83	31.44	-	-	P	H
		133.79	22.42	-21.08	43.5	34.8	18.14	1.01	31.53	-	-	P	H
		175.5	22.85	-20.65	43.5	37.03	16.08	1.09	31.35	-	-	P	H
		590.66	24.79	-21.21	46	28.28	25.41	2.08	30.98	-	-	P	H
		815.7	27.63	-18.37	46	29.26	26.85	2.45	30.93	-	-	P	H
		55.22	27.45	-12.55	40	44.45	14.32	0.63	31.95	-	-	P	V
		91.11	25.98	-17.52	43.5	40.48	16.11	0.83	31.44	-	-	P	V
		172.59	26.16	-17.34	43.5	40.22	16.2	1.09	31.35	-	-	P	V
		262.8	19.95	-26.05	46	30.11	19.79	1.22	31.17	-	-	P	V
		732.28	26.77	-19.23	46	29.16	26.19	2.32	30.9	-	-	P	V
		885.54	28.19	-17.81	46	29.62	27.12	2.52	31.07	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



A calculation example for radiated spurious emission is shown as below:

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)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
 = 55.45 (dBμV/m)
2. Over Limit(dB)
 = Level(dBμV/m) – Limit Line(dBμV/m)
 = 55.45(dBμV/m) – 74(dBμV/m)
 = -18.55(dB)

For Average Limit @ 2390MHz:

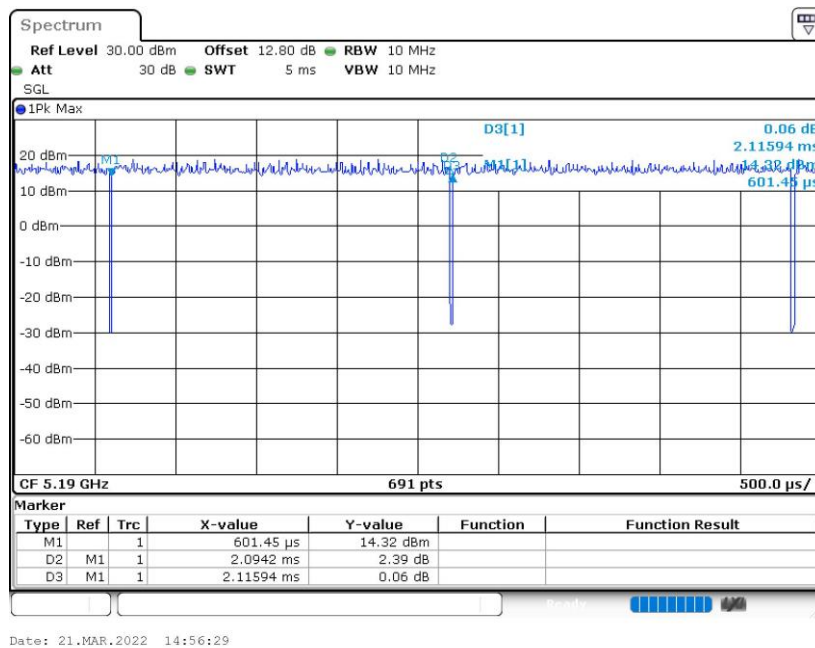
1. Level(dBμV/m)
 = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
 = 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
 = 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
 = 43.54(dBμV/m) – 54(dBμV/m)
 = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

Appendix D. Duty Cycle Plots

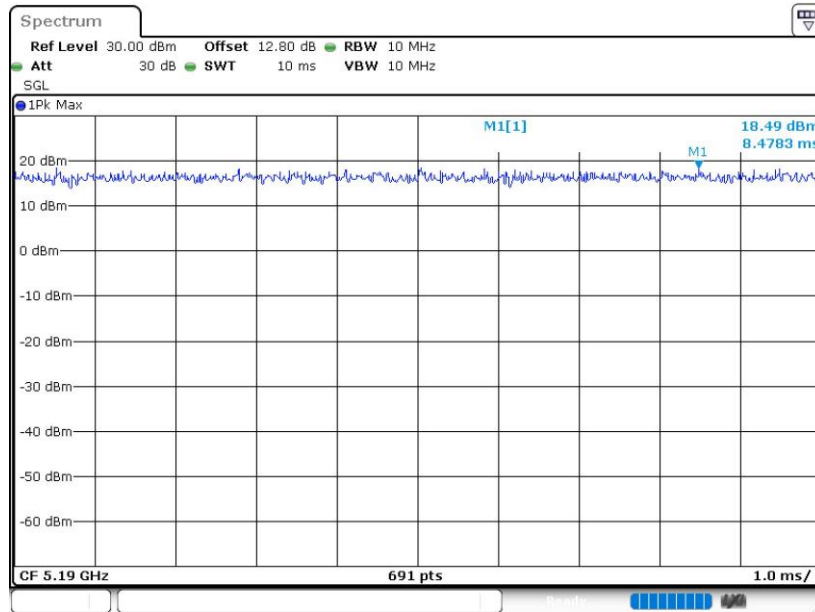
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11a	98.97	-	-	10Hz
802.11ac VHT20	100	-	-	10Hz
802.11ac VHT40	100	-	-	10Hz
802.11ac VHT80	100	-	-	10Hz
802.11ac VHT160	100	-	-	10Hz
802.11ax HE20	100	-	-	10Hz
802.11ax HE40	100	-	-	10Hz
802.11ax HE80	100	-	-	10Hz
802.11ax HE160	100	-	-	10Hz

802.11a



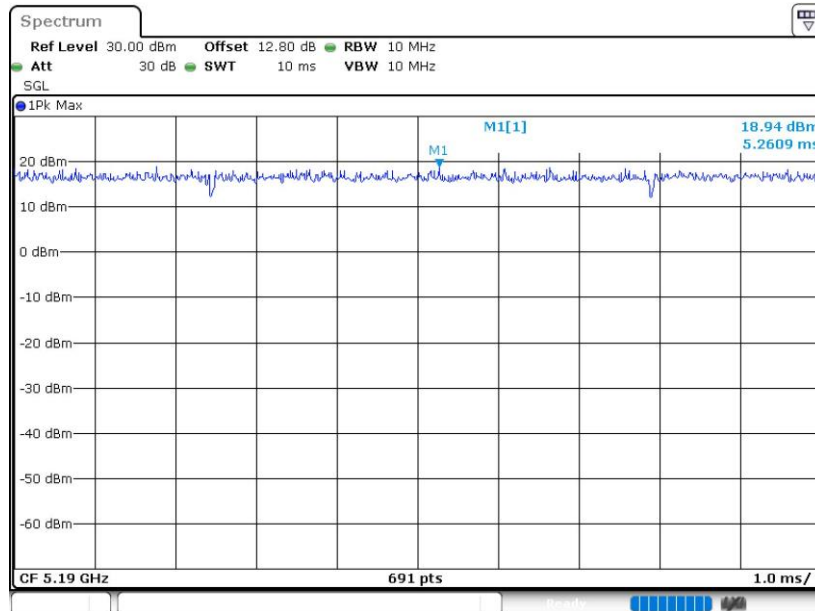


802.11ac VHT20



Date: 21.MAR.2022 14:58:58

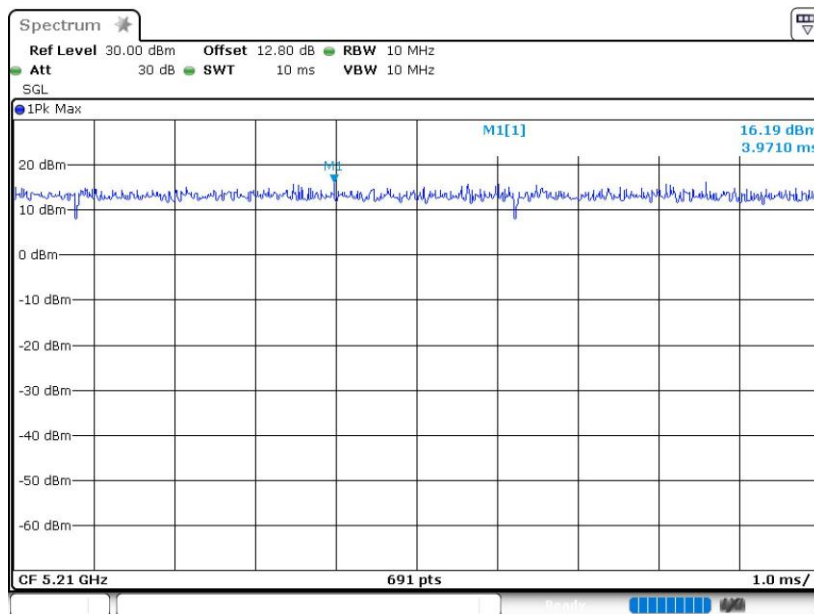
802.11ac VHT40



Date: 21.MAR.2022 15:03:24

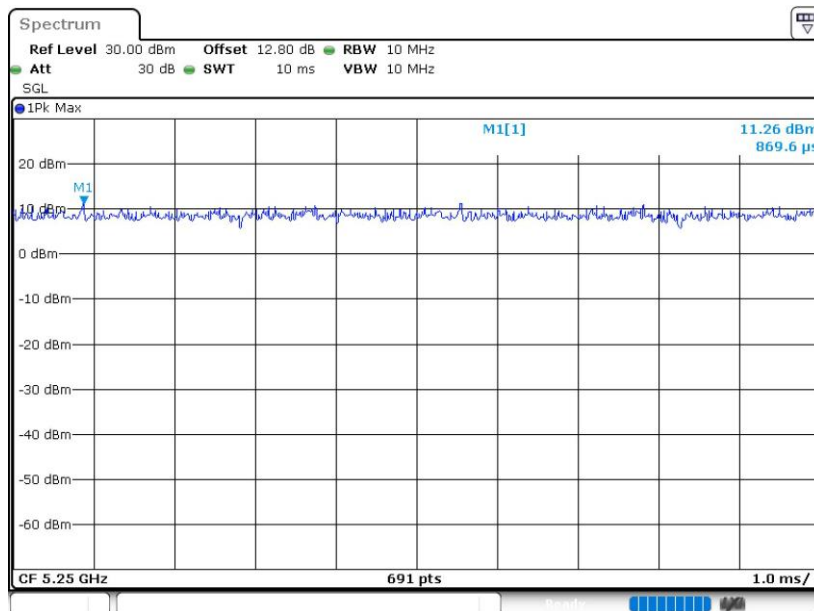


802.11ac VHT80



Date: 21.MAR.2022 15:04:53

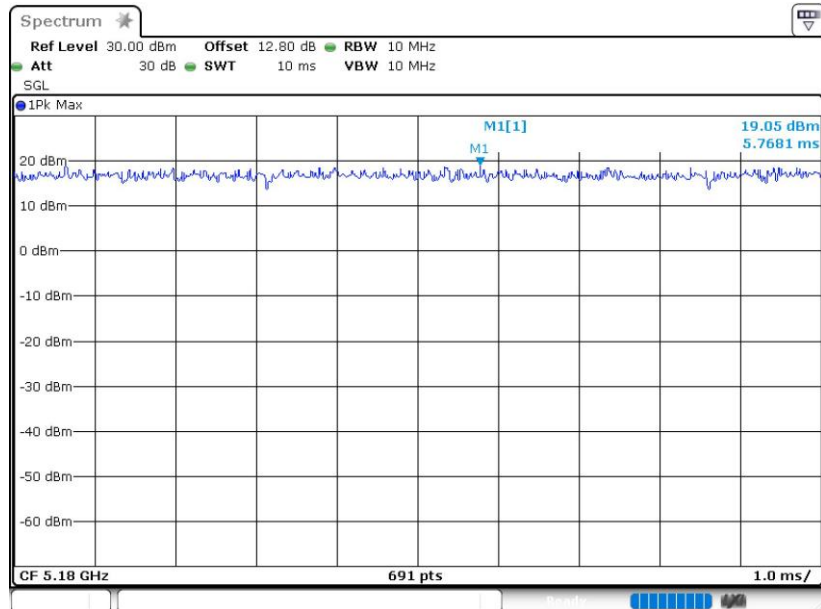
802.11ac VHT160



Date: 21.MAR.2022 15:07:28



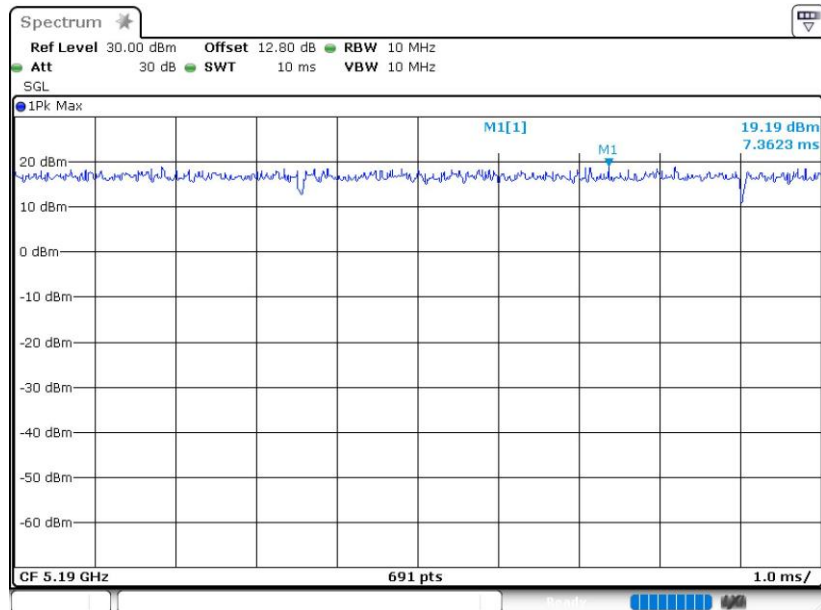
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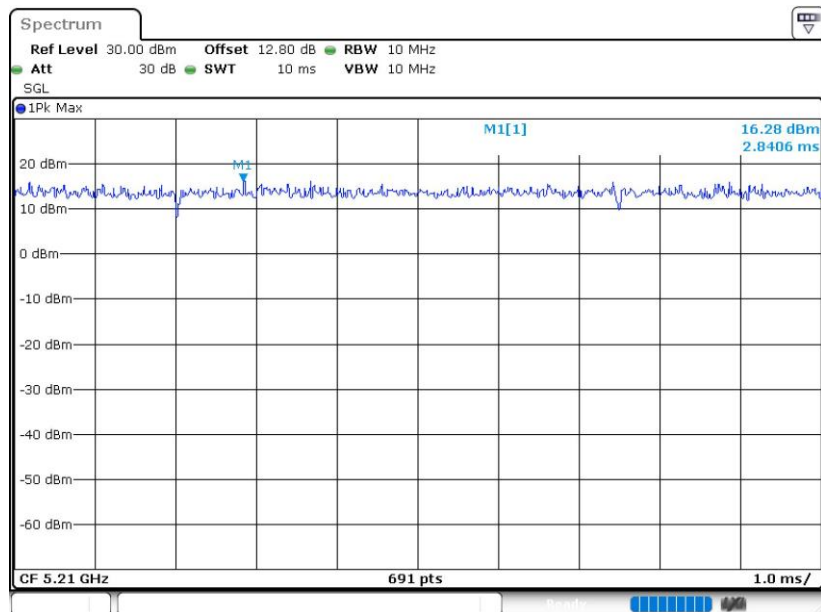


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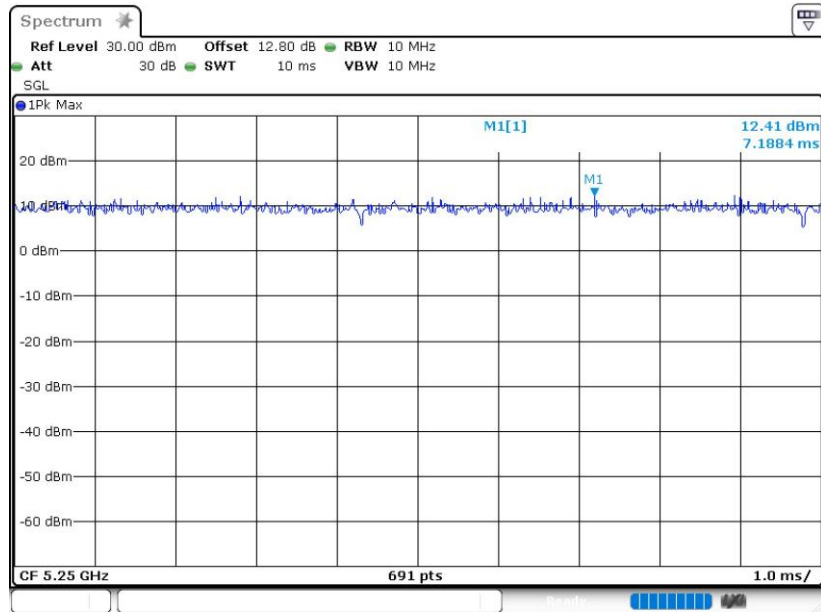
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Date: 21.MAR.2022 15:05:50



802.11ax HE160



Date: 21.MAR.2022 15:06:41