



FCC RF Test Report

APPLICANT : Evergreen Huckleberry LLC
EQUIPMENT : Digital Media Receiver
MODEL NAME : R85SD6
FCC ID : 2A8FC-8523
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Mar. 20, 2023 ~ May 18, 2023

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
FR2N2209-01F	Rev. 01	Initial issue of report	May 19, 2023
FR2N2209-01F	Rev. 02	Update Section 2.2 AC Conducted Emission test mode on Page 9	Aug. 31, 2023

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result
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
3.5	15.207	AC Conducted Emission	15.207(a)	Pass
3.6	15.407(c)	Automatically Discontinue Transmission	Discontinue Transmission	Pass
3.7	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

Evergreen Huckleberry LLC

100 S. Ashley Drive Suite 600 Tampa, FL 33602

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Digital Media Receiver
Model Name	R85SD6
FCC ID	2A8FC-8523
SN Code	Conducted: G0B2MM0330920044 Conduction: G0B2MM0330870012 Radiation: G0B2MM033087000K DFS: P0B35Q0230740554

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

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	5745 MHz ~ 5825 MHz
Maximum Output Power	MIMO <Ant. 0+1> <5745 MHz ~ 5825 MHz> 802.11a : 19.92 dBm / 0.0982 W 802.11n HT20 : 19.89 dBm / 0.0975 W 802.11n HT40 : 19.88 dBm / 0.0973 W 802.11ac VHT20: 19.86 dBm / 0.0968 W 802.11ac VHT40: 19.85 dBm / 0.0966 W 802.11ac VHT80: 19.38 dBm / 0.0867 W
99% Occupied Bandwidth	802.11a : 16.93 MHz 802.11n HT20 : 17.88 MHz 802.11n HT40 : 36.56 MHz 802.11ac VHT80 : 75.40 MHz
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)
Antenna Type / Gain	<Ant. 0> : ILA Antenna with gain 6.0 dBi <Ant. 1> : ILA Antenna with gain 6.0 dBi

Note:

1. 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.
2. The device supports CDD MIMO mode only.



1.4 Modification of EUT

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

1.5 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 DFS01-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.
	03CH02-SZ	CN1256	421272

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH02-SZ	AUDIX	E3	6.2009-8-24a
2.	CO01-SZ	AUDIX	E3	6.120613b
3.	DFS01-SZ	Sporton	DFS & Adaptivity Test Tools	1.0



1.7 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 (Y 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

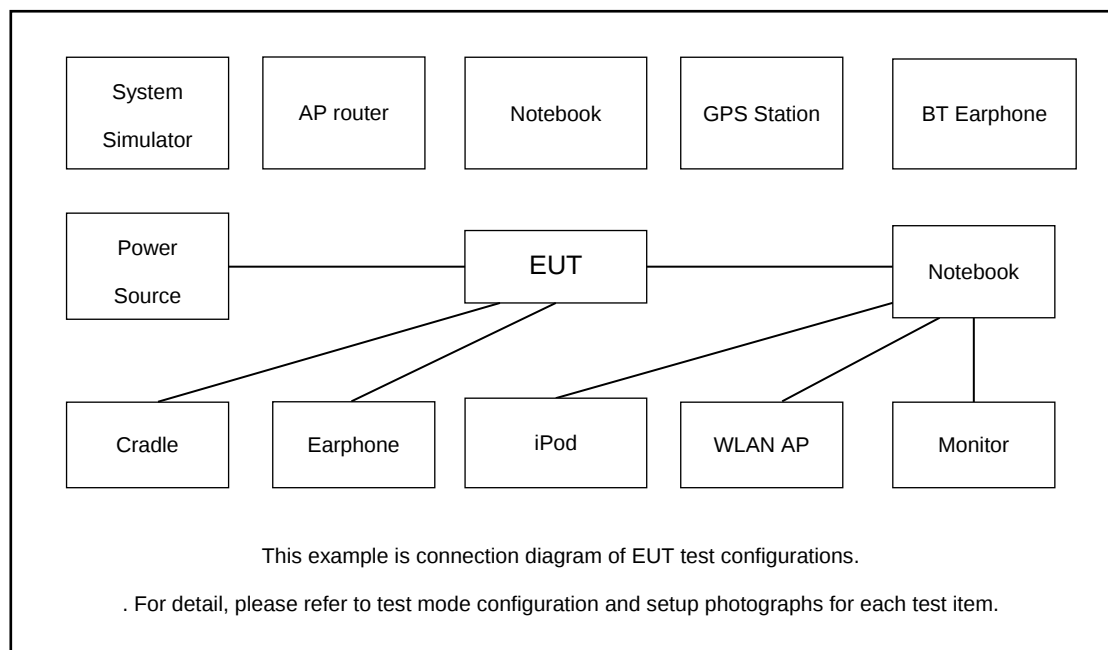
Modulation	Data Rate
802.11a	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ac VHT80	MCS0

AC Conducted Emission	Mode 1 : Zigbee Link(Connet to Light bulb) + Bluetooth Link + WLAN Link(5G) + With Charging Stand + AC Adapter
Remark: For Radiated Test Cases, The tests were performance with Adapter.	

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	-

Remark: For radiation spurious emission, the final modulation and the worst data rate was reference the max RF conducted power.

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.	BT Speaker	JBL	Charge3	N/A	N/A	N/A
2.	WLAN AP	TP_Link	DBWRT01R	N/A	N/A	N/A
3.	Light bulb	Philips	097	N/A	N/A	N/A
4.	Stand	N/A	N/A	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 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 10dB 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.

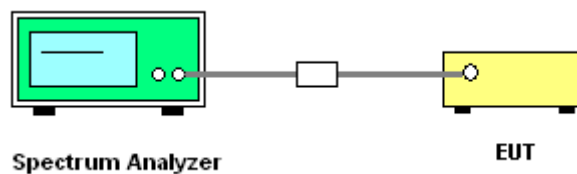
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

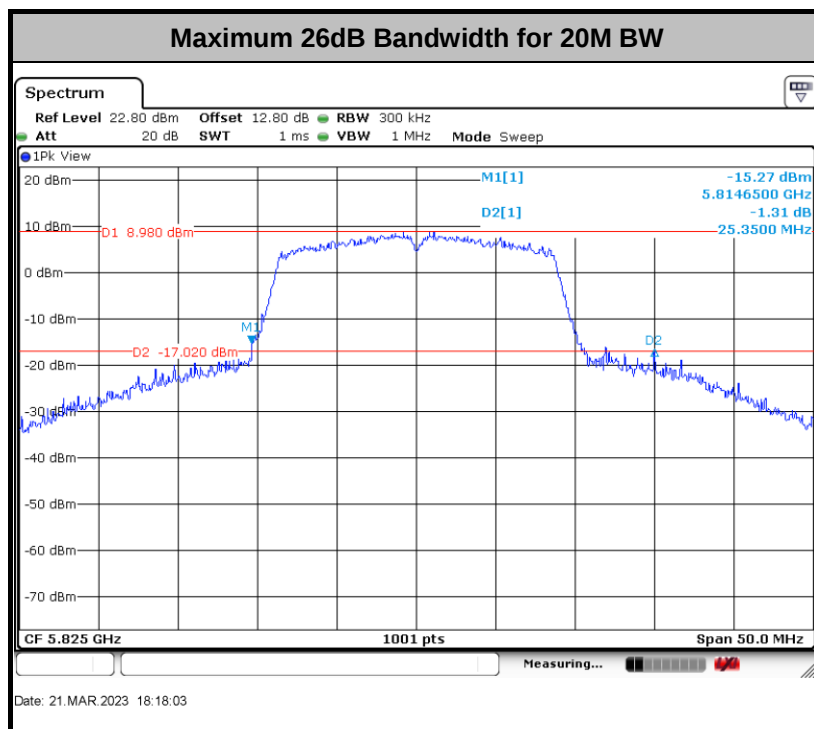
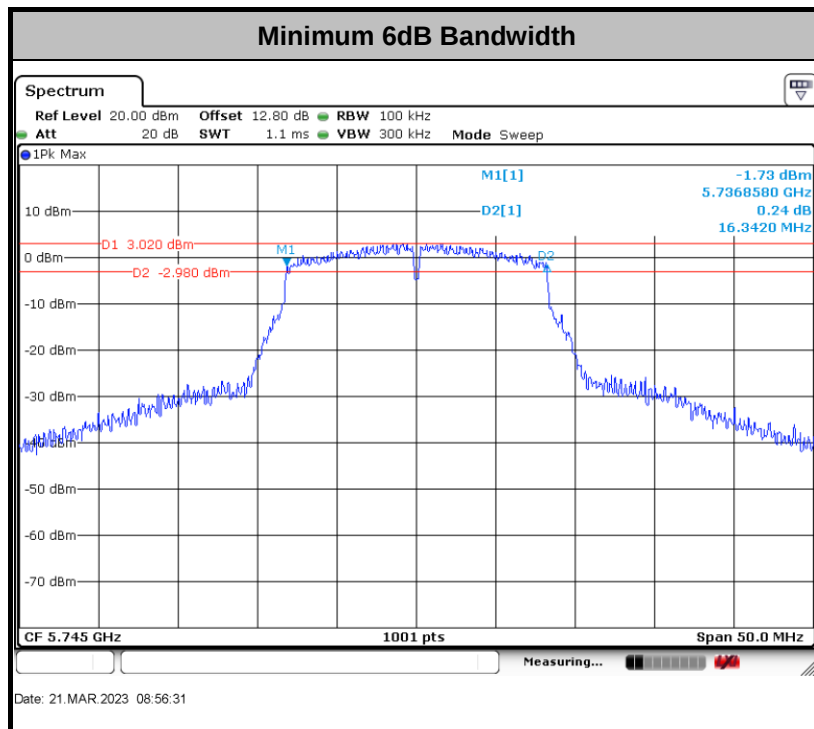
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section C) Emission bandwidth for the band 5.725-5.85GHz
2. For 6dB BW, Set RBW = 100kHz.
For 26dB BW, Set RBW = approximately 1% of the emission bandwidth.
For 99% OBW, Set RBW = 1% to 5% of the OBW.
3. For 26dB 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.

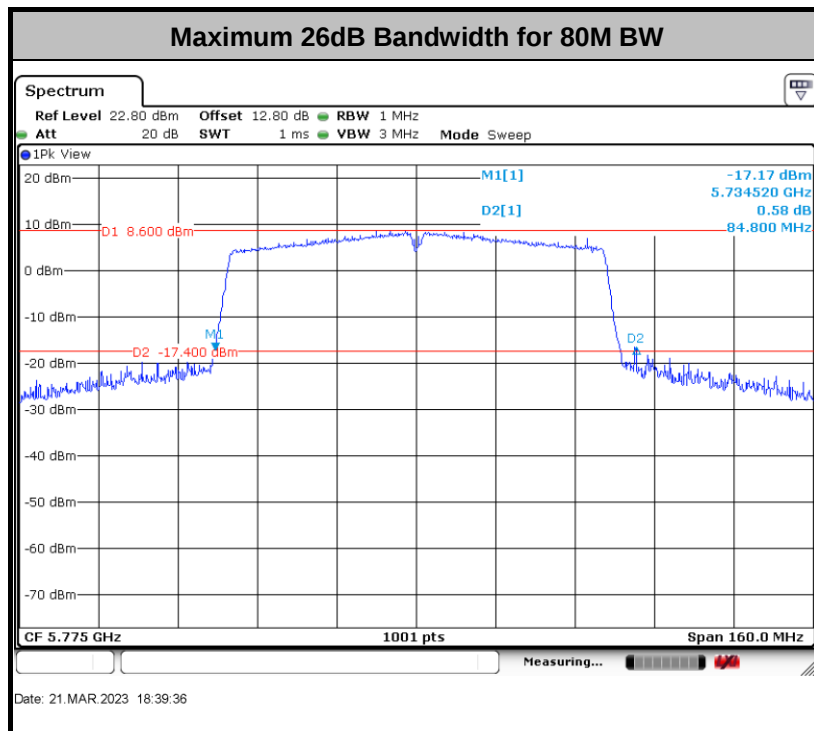
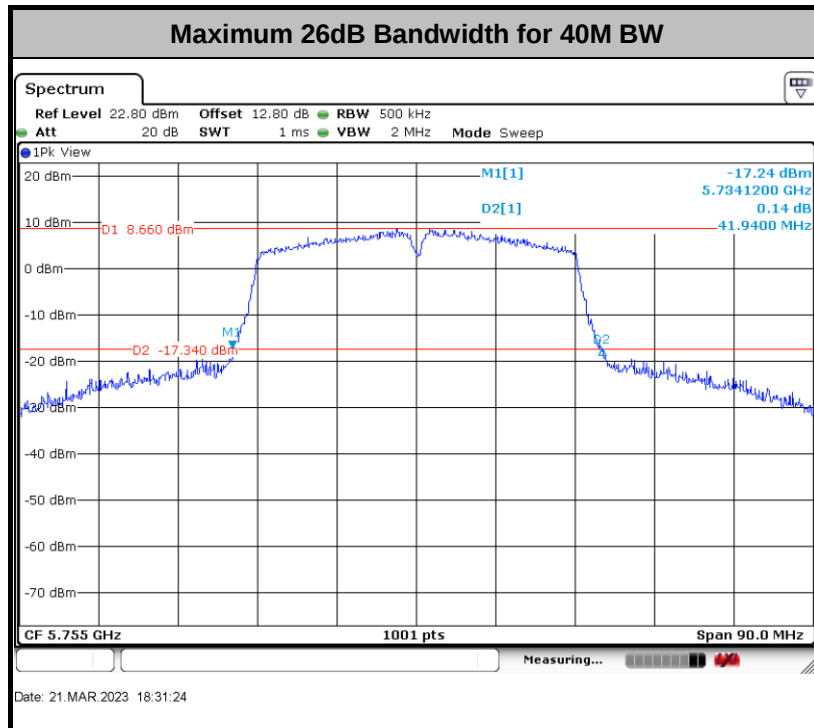
3.1.4 Test Setup

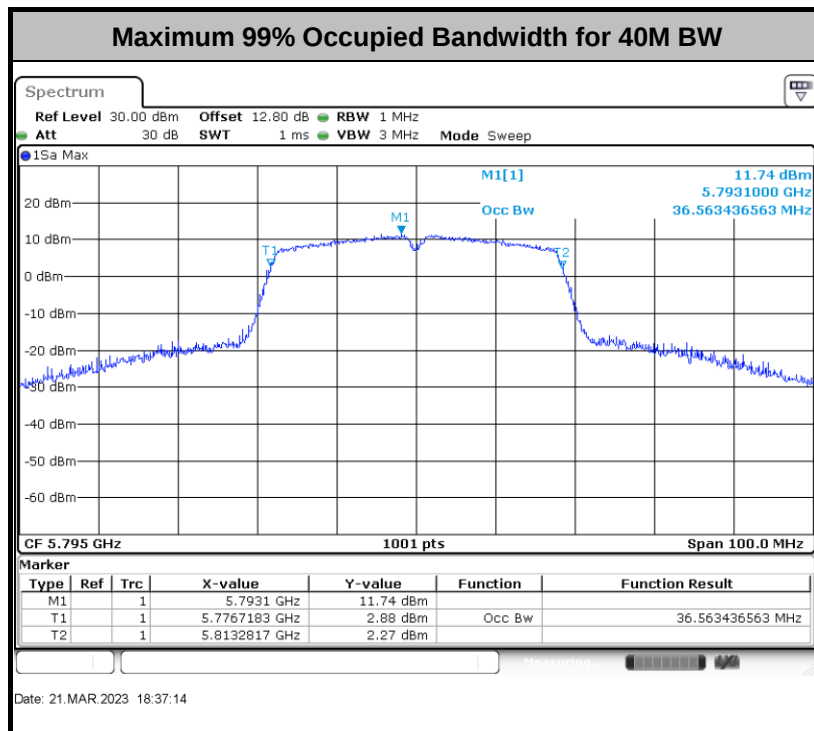
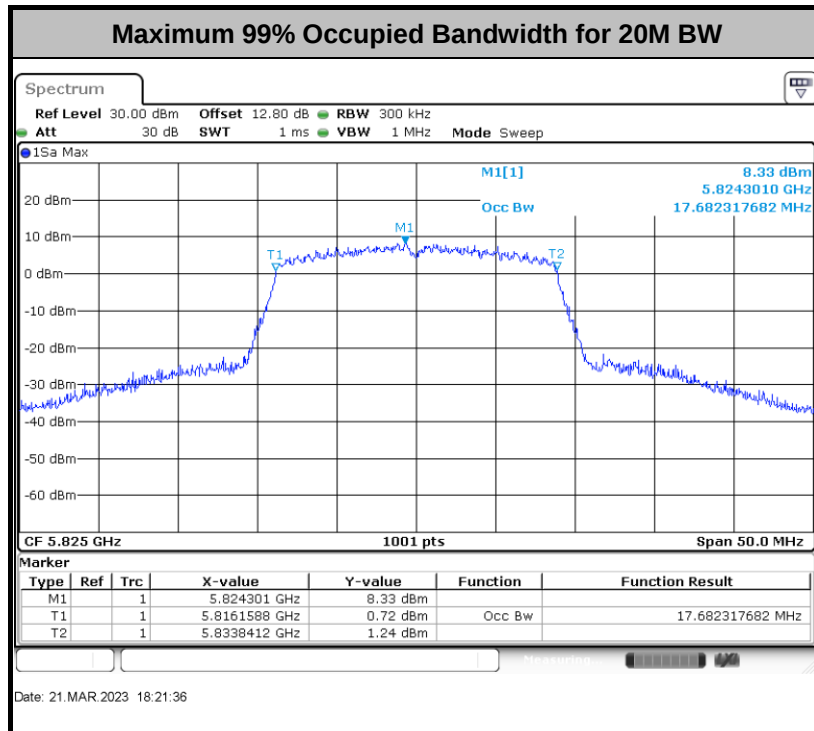


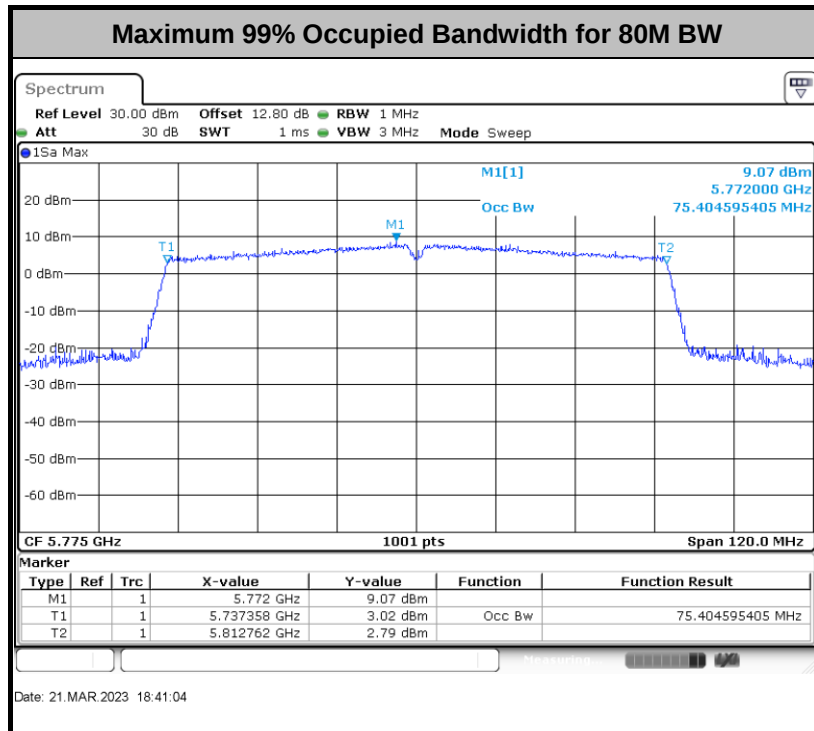
3.1.5 Test Result of 6dB Bandwidth

Please refer to Appendix A.









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.

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 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.

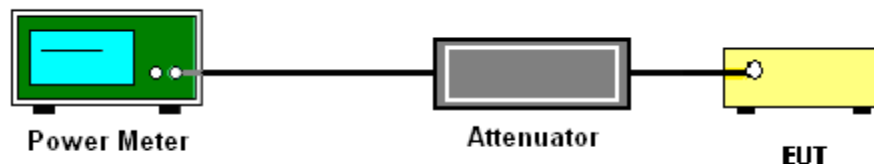
3.2.3 Test Procedures

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.
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 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).

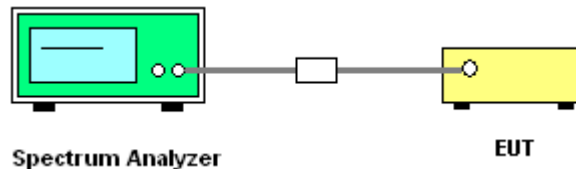
- Measure the duty cycle.
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500KHz (or 300 kHz if the SA can't set RBW=500KHz).
- Set VBW $\geq$ 1 MHz.
- Number of points in sweep $\geq$ 2 Span / RBW.
- Sweep time = auto.
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- If the SA can't set RBW=500KHz, then 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. 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.

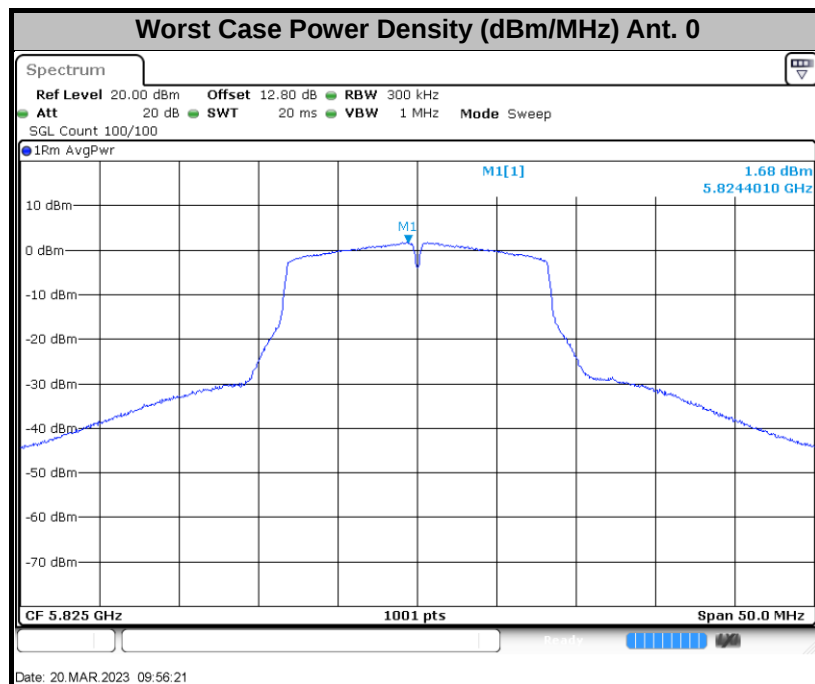
With this technique, spectrum measurements are performed at each output of the device, but rather than summing the spectra or the spectral peaks across the outputs, the quantity $10 \log(N_{\text{ANT}})$ dB is added to each spectrum value before comparing to the emission limit. The addition of $10 \log(N_{\text{ANT}})$ 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.



Note: SUM PSD (dBm/MHz) = Measured value Max(Ant.0,Ant.1)+10log(500k/RBW)Factor+10log2

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.

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.77$$

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.



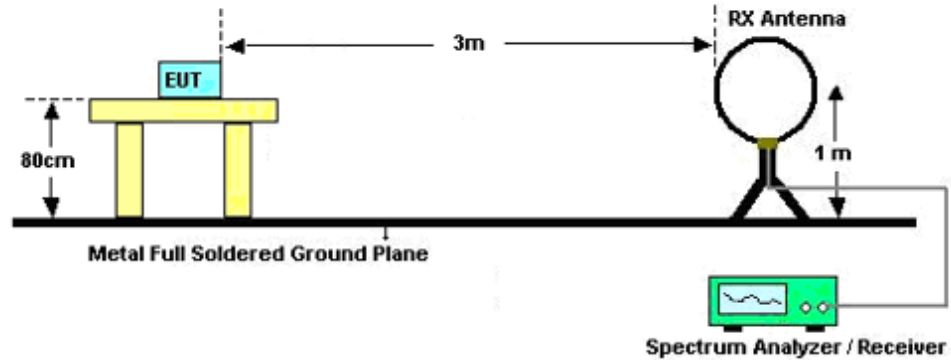
3.4.3 Test Procedures

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.

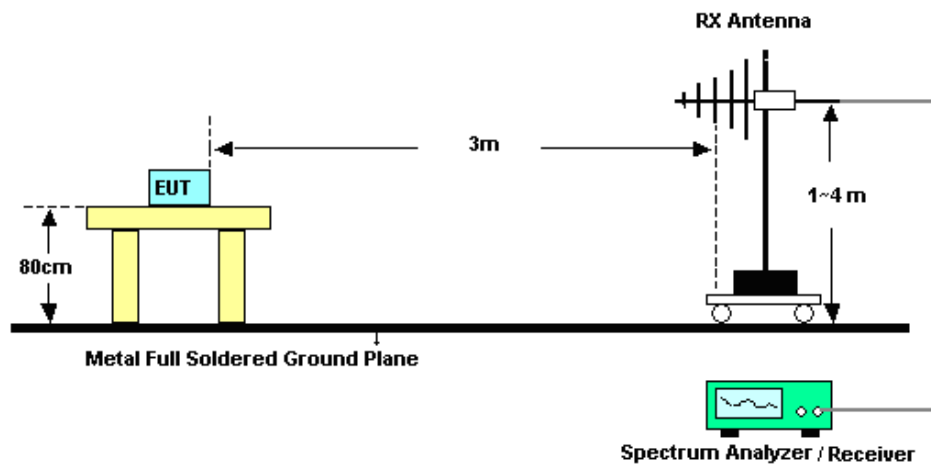


3.4.4 Test Setup

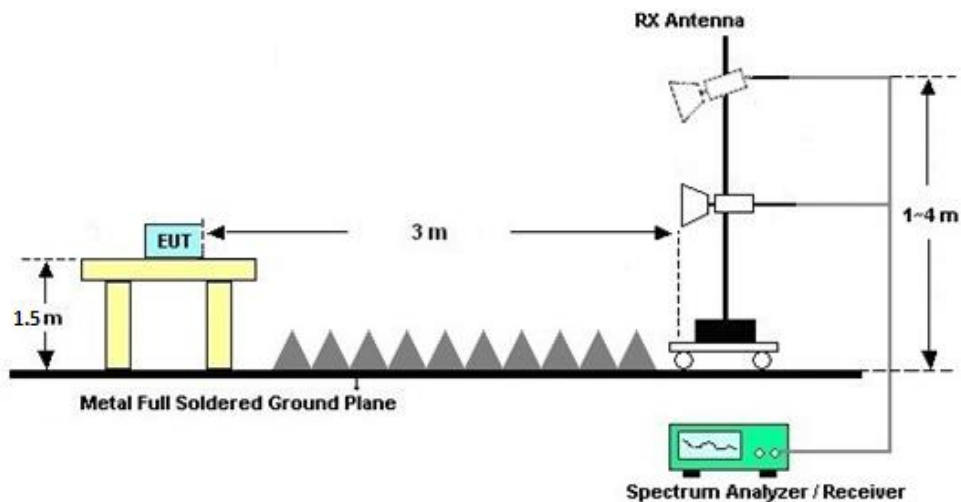
For radiated emissions below 30MHz



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&D.

3.4.7 Duty Cycle

Please refer to Appendix E.

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

Please refer to Appendix C&D.

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.

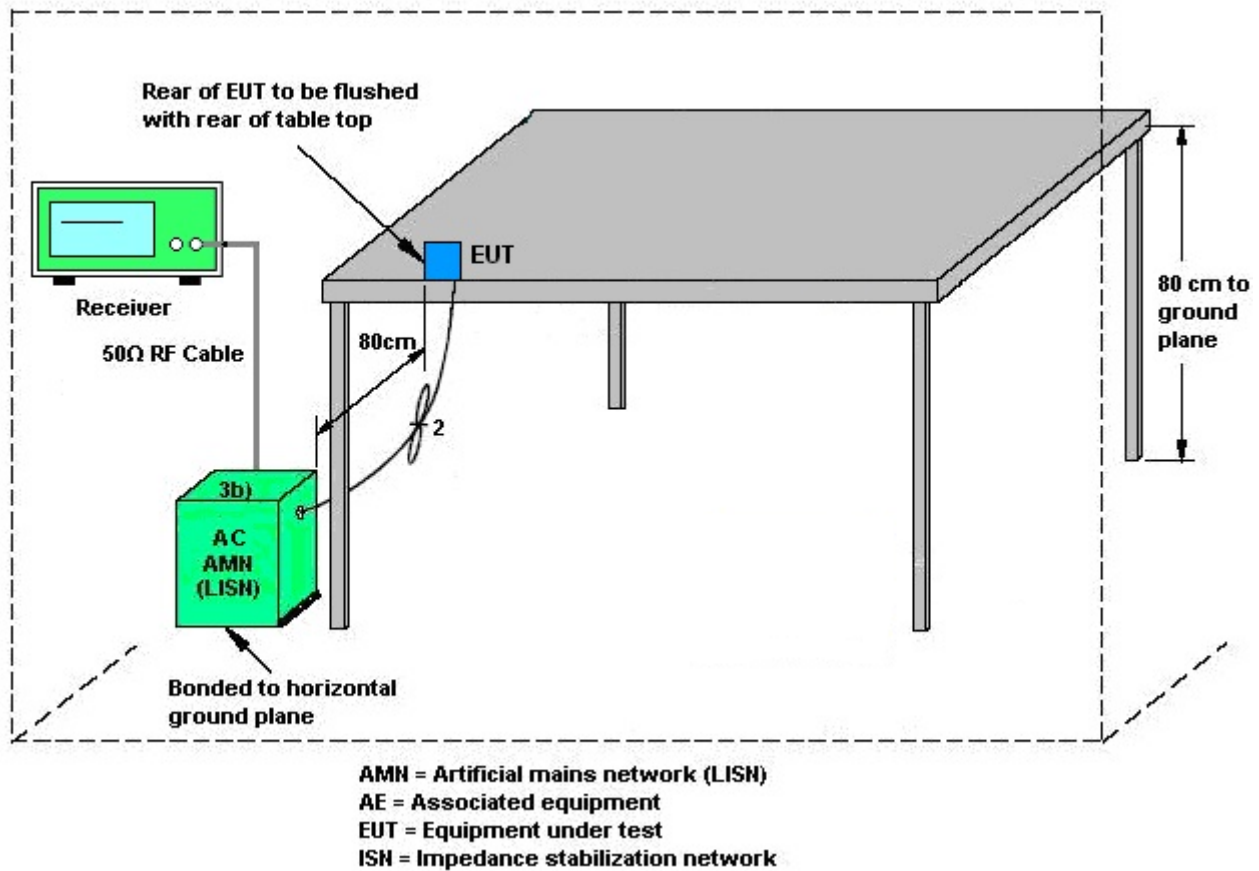
3.5.2 Measuring Instruments

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 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

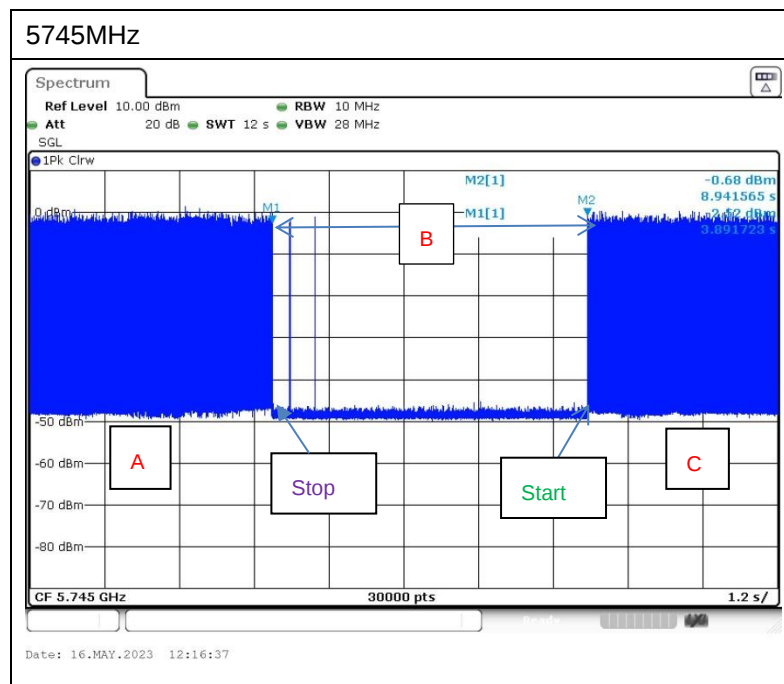
EUT is verified this characteristic during the function check of normal sample associated with an access point:

- Information start: make EUT supply information to the access point.
- Information stop: stop supplying information to the access point.

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

- Information start: make EUT supply information to the access point again.

The EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.



Note : The control / signaling information during the period B is precluded.

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 = G_{ANT} + Array Gain, where Array Gain is as follows.

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

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} 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>						
	Ant. 1	Ant. 2	DG for Power	DG for PSD	Power Limit Reduction	PSD Limit Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
Band IV	6.00	6.00	6.00	9.01	0.00	3.01

$Power\ Limit\ Reduction = DG(Power) - 6dBi, (min = 0)$

$PSD\ Limit\ Reduction = DG(PSD) - 6dBi, (min = 0)$



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. 07, 2022	Mar. 20, 2023~ Mar. 21, 2023	Apr. 06, 2023	Conducted (TH01-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 05, 2023		Apr. 04, 2024	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 27, 2022	Mar. 20, 2023~ Mar. 21, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1542004	50MHz Bandwidth	Dec. 27, 2022	Mar. 20, 2023~ Mar. 21, 2023	Dec. 26, 2023	Conducted (TH01-SZ)
Attenuator	MICROWAV	EMVE2214-10	2	30MHz~26.5GHz	Feb. 22, 2023	Mar. 20, 2023~ Mar. 21, 2023	Feb. 22, 2024	Conducted (TH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 07, 2022	Apr. 26, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jul. 28, 2022	Apr. 26, 2023	Jul. 27, 2023	Radiation (03CH02-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Sep. 28, 2022	Apr. 26, 2023	Sep. 27, 2023	Radiation (03CH02-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 07, 2022	Apr. 26, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 07, 2022	Apr. 26, 2023	Jul. 06, 2023	Radiation (03CH02-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 08, 2023	Apr. 26, 2023	Apr. 07, 2024	Radiation (03CH02-SZ)
LF Amplifier	Burgeon	BPA-530	102211	0.01~3000Mhz	Oct. 19, 2022	Apr. 26, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P-R	1943528	1GHz~18GHz	Oct. 19, 2022	Apr. 26, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5Ghz	Oct. 19, 2022	Apr. 26, 2023	Oct. 18, 2023	Radiation (03CH02-SZ)
AC Power Source	Chroma	61601	616010003043	N/A	Nov. 10, 2022	Apr. 26, 2023	Nov. 09, 2023	Radiation (03CH02-SZ)
Turn Table	Chaintek	T-200	N/A	0~360 degree	NCR	Apr. 26, 2023	NCR	Radiation (03CH02-SZ)
Antenna Mast	Chaintek	MBS-400	N/A	1 m~4 m	NCR	Apr. 26, 2023	NCR	Radiation (03CH02-SZ)
EMI Receiver	R&S	ESR7	101630	9kHz~7GHz;	Jul. 07, 2022	May 18, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
AC LISN	R&S	ENV216	100063	9kHz~30MHz	Sep. 15, 2022	May 18, 2023	Sep. 14, 2023	Conduction (CO01-SZ)
AC LISN (for auxiliary equipment)	EMCO	3816/2SH	00103892	9kHz~30MHz	Oct. 17, 2022	May 18, 2023	Oct. 16, 2023	Conduction (CO01-SZ)
AC Power Source	Chroma	61602	616020000891	100Vac~250Vac	Jul.07, 2022	May 18, 2023	Jul. 06, 2023	Conduction (CO01-SZ)
Signal Analyzer	R&S	FSV7	101473	10Hz~7GHz	Dec. 27, 2022	May 16, 2023	Dec. 26, 2023	Conducted (DFS01-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 Measurement

Test Item	Uncertainty
Conducted Power	±1.34 dB
Conducted Emissions	±1.34 dB
Occupied Channel Bandwidth	±0.13 %
Conducted Power Spectral Density	±1.32 dB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	2.7dB
---	-------

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

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

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1dB
---	-------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1dB
---	-------

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



Appendix A. Conducted Test Results

Test Engineer:	Chen Ran	Temperature:	24~26	°C
Test Date:	2023/3/20~2023/3/21	Relative Humidity:	50~53	%

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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	2	149	5745	16.83	16.68	20.60	20.45	16.34	16.34	0.5		Pass
11a	6Mbps	2	157	5785	16.93	16.73	20.75	20.50	16.34	16.34	0.5		Pass
11a	6Mbps	2	165	5825	16.83	16.73	22.75	20.40	16.34	16.34	0.5		Pass
HT20	MCS0	2	149	5745	17.83	17.68	20.70	20.55	17.59	17.59	0.5		Pass
HT20	MCS0	2	157	5785	17.83	17.68	20.95	20.60	17.54	17.54	0.5		Pass
HT20	MCS0	2	165	5825	17.88	17.68	25.35	20.65	17.54	17.54	0.5		Pass
HT40	MCS0	2	151	5755	36.46	36.36	41.94	40.95	36.25	36.25	0.5		Pass
HT40	MCS0	2	159	5795	36.56	36.46	41.58	40.86	36.25	36.25	0.5		Pass
VHT80	MCS0	2	155	5775	75.40	75.16	84.80	80.80	76.44	76.28	0.5		Pass

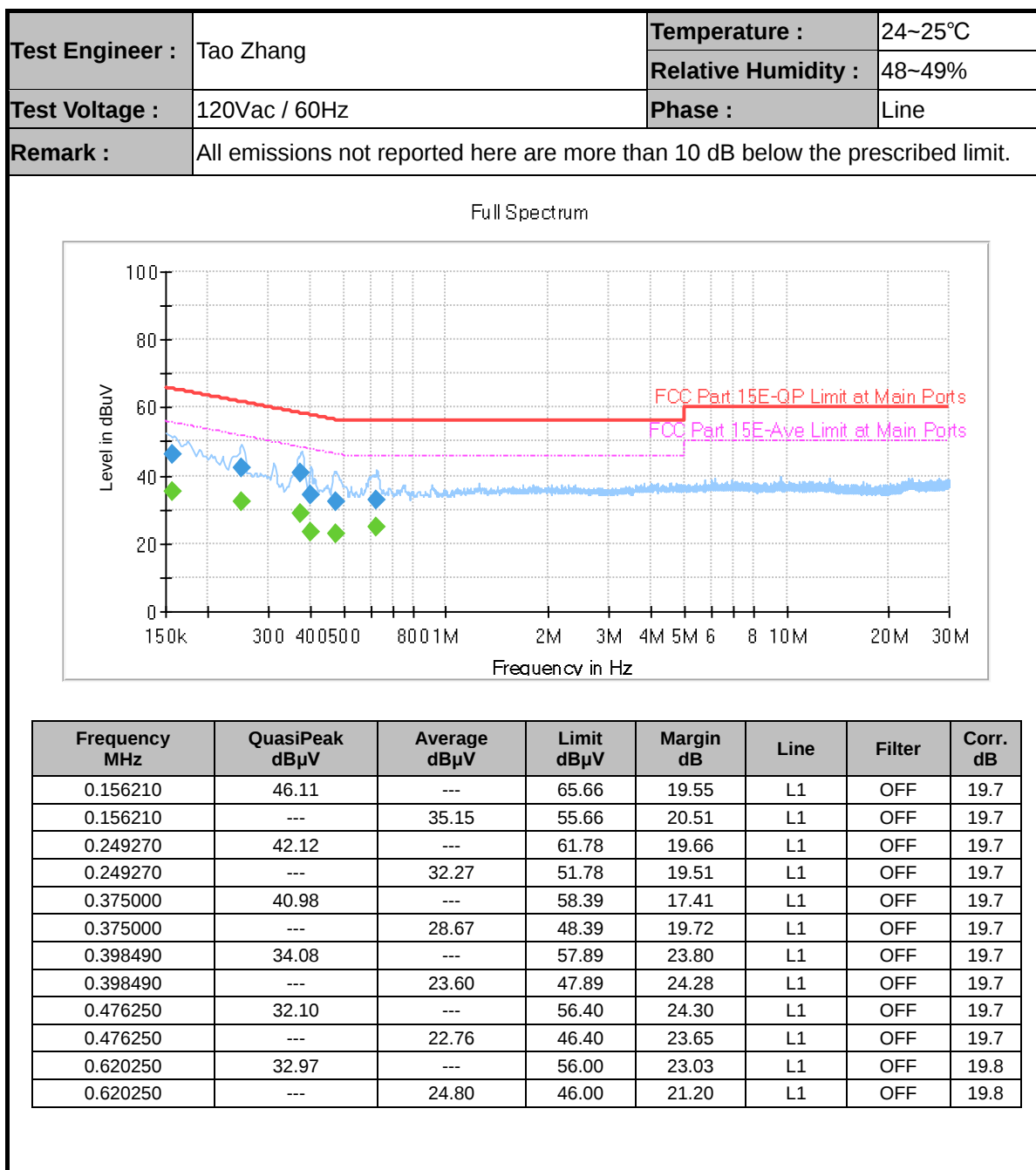
TEST RESULTS DATA
Average Power Table

Band IV																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)		Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)			Pass/Fail	Power Setting
					Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1			
11a	6Mbps	2	149	5745	0.00	0.00	16.90	16.53	19.73	30.00	6.00			Pass	18	
11a	6Mbps	2	157	5785	0.00	0.00	16.98	16.83	19.92	30.00	6.00			Pass	18	
11a	6Mbps	2	165	5825	0.00	0.00	17.05	16.64	19.86	30.00	6.00			Pass	18	
HT20	MCS0	2	149	5745	0.00	0.00	16.83	16.44	19.65	30.00	6.00			Pass	18	
HT20	MCS0	2	157	5785	0.00	0.00	16.95	16.81	19.89	30.00	6.00			Pass	18	
HT20	MCS0	2	165	5825	0.00	0.00	16.92	16.45	19.70	30.00	6.00			Pass	18	
HT40	MCS0	2	151	5755	0.00	0.00	16.87	16.78	19.84	30.00	6.00			Pass	18	
HT40	MCS0	2	159	5795	0.00	0.00	16.88	16.85	19.88	30.00	6.00			Pass	18	
VHT20	MCS0	2	149	5745	0.00	0.00	16.80	16.42	19.62	30.00	6.00			Pass	18	
VHT20	MCS0	2	157	5785	0.00	0.00	16.91	16.79	19.86	30.00	6.00			Pass	18	
VHT20	MCS0	2	165	5825	0.00	0.00	16.89	16.42	19.67	30.00	6.00			Pass	18	
VHT40	MCS0	2	151	5755	0.00	0.00	16.84	16.75	19.81	30.00	6.00			Pass	18	
VHT40	MCS0	2	159	5795	0.00	0.00	16.86	16.81	19.85	30.00	6.00			Pass	18	
VHT80	MCS0	2	155	5775	0.00	0.00	16.45	16.28	19.38	30.00	6.00			Pass	18	

TEST RESULTS DATA
Power Spectral Density

Band IV																
Mod.	Data Rate	NTX	CH.	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 0	Ant 1	Ant 0	Ant 1	Ant 0	Ant 1	SUM	Ant 0	Ant 1	Ant 0	Ant 1	
11a	6Mbps	2	149	5745	0.00	0.00	2.22	3.51	3.15	6.52	26.99		9.01		Pass	
11a	6Mbps	2	157	5785	0.00	0.00	2.22	3.71	3.58	6.72	26.99		9.01		Pass	
11a	6Mbps	2	165	5825	0.00	0.00	2.22	3.90	3.49	6.91	26.99		9.01		Pass	
HT20	MCS0	2	149	5745	0.00	0.00	2.22	3.24	2.90	6.25	26.99		9.01		Pass	
HT20	MCS0	2	157	5785	0.00	0.00	2.22	3.45	3.56	6.57	26.99		9.01		Pass	
HT20	MCS0	2	165	5825	0.00	0.00	2.22	3.52	3.07	6.53	26.99		9.01		Pass	
HT40	MCS0	2	151	5755	0.00	0.00	2.22	0.34	0.18	3.35	26.99		9.01		Pass	
HT40	MCS0	2	159	5795	0.00	0.00	2.22	0.53	0.45	3.54	26.99		9.01		Pass	
VHT80	MCS0	2	155	5775	0.00	0.00	2.22	-3.17	-3.25	-0.16	26.99		9.01		Pass	

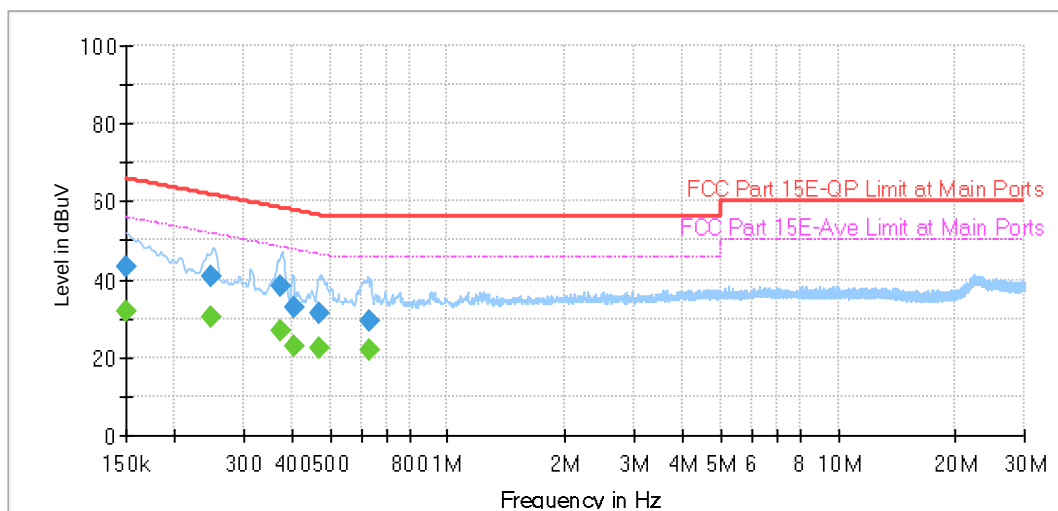
Appendix B. AC Conducted Emission Test Results





Test Engineer :	Tao Zhang	Temperature :	24~25°C
		Relative Humidity :	48~49%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum



Frequency MHz	QuasiPeak dBuV	Average dBuV	Limit dBuV	Margin dB	Line	Filter	Corr. dB
0.150000	43.40	---	66.00	22.60	N	OFF	19.7
0.150000	---	32.05	56.00	23.95	N	OFF	19.7
0.246750	40.89	---	61.87	20.97	N	OFF	19.7
0.246750	---	30.28	51.87	21.59	N	OFF	19.7
0.372750	38.20	---	58.44	20.24	N	OFF	19.7
0.372750	---	26.66	48.44	21.78	N	OFF	19.7
0.402630	32.81	---	57.80	24.99	N	OFF	19.7
0.402630	---	22.69	47.80	25.11	N	OFF	19.7
0.467250	31.28	---	56.56	25.28	N	OFF	19.7
0.467250	---	22.16	46.56	24.40	N	OFF	19.7
0.629160	29.26	---	56.00	26.74	N	OFF	19.7
0.629160	---	21.90	46.00	24.10	N	OFF	19.7



Appendix C. Radiated Spurious Emission

U-NII-3 - 5725~5850MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Margin	Limit Line	Read Level	Antenna Factor	Path Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 149 5745MHz		5615	52.28	-16.02	68.3	37.91	34.87	10.05	30.55	100	40	P	H
		5700	52.27	-52.93	105.2	37.73	35	10.12	30.58	100	40	P	H
		5719.2	58.36	-52.22	110.58	43.77	35.06	10.12	30.59	100	40	P	H
		5724.6	62.71	-58.58	121.29	48.12	35.06	10.12	30.59	100	40	P	H
	*	5745	106.88	-	-	92.25	35.09	10.14	30.6	100	40	P	H
	*	5745	100.31	-	-	85.68	35.09	10.14	30.6	100	40	A	H
		5637	53.51	-14.79	68.3	39.08	34.92	10.07	30.56	181	77	P	V
		5699.2	55.49	-49.12	104.61	40.98	35	10.09	30.58	181	77	P	V
		5719.2	65.24	-45.34	110.58	50.65	35.06	10.12	30.59	181	77	P	V
		5724.8	70.23	-51.51	121.74	55.64	35.06	10.12	30.59	181	77	P	V
	*	5745	115.37	-	-	100.74	35.09	10.14	30.6	181	77	P	V
	*	5745	107.04	-	-	92.41	35.09	10.14	30.6	181	77	A	V



WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5647.2	52.72	-15.58	68.3	38.29	34.92	10.07	30.56	319	53	P	H
		5695.4	52.33	-49.49	101.82	37.82	35	10.09	30.58	319	53	P	H
		5709.4	52.02	-55.81	107.83	37.45	35.03	10.12	30.58	319	53	P	H
		5725	52.29	-69.91	122.2	37.7	35.06	10.12	30.59	319	53	P	H
	*	5785	106.29	-	-	91.6	35.14	10.16	30.61	319	53	P	H
	*	5785	99.99	-	-	85.3	35.14	10.16	30.61	319	53	A	H
		5851.8	51.79	-66.31	118.1	36.99	35.25	10.19	30.64	319	53	P	H
		5874.6	52.72	-52.59	105.31	37.85	35.31	10.21	30.65	319	53	P	H
		5878.4	52.61	-50.06	102.67	37.74	35.31	10.21	30.65	319	53	P	H
		5935.8	53.04	-15.26	68.3	38.06	35.39	10.26	30.67	319	53	P	H
		5624.2	53.57	-14.73	68.3	39.16	34.89	10.07	30.55	194	81	P	V
		5688.8	55.38	-41.58	96.96	40.87	35	10.09	30.58	194	81	P	V
		5708.2	55.45	-52.05	107.5	40.88	35.03	10.12	30.58	194	81	P	V
		5722.6	56.61	-60.12	116.73	42.02	35.06	10.12	30.59	194	81	P	V
	*	5785	114.78	-	-	100.09	35.14	10.16	30.61	194	81	P	V
	*	5785	108.44	-	-	93.75	35.14	10.16	30.61	194	81	A	V
		5852.2	54.38	-62.8	117.18	39.58	35.25	10.19	30.64	194	81	P	V
		5869	54.65	-52.23	106.88	39.8	35.28	10.21	30.64	194	81	P	V
		5894.4	53.7	-37.11	90.81	38.81	35.33	10.21	30.65	194	81	P	V
		5932.2	53.89	-14.41	68.3	38.93	35.39	10.24	30.67	194	81	P	V



WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	106.31	-	-	91.53	35.22	10.19	30.63	316	56	P	H
	*	5825	100.14	-	-	85.36	35.22	10.19	30.63	316	56	A	H
		5850.4	59.75	-61.54	121.29	44.95	35.25	10.19	30.64	316	56	P	H
		5858.8	56.49	-53.24	109.73	41.64	35.28	10.21	30.64	316	56	P	H
		5896.6	53.46	-35.72	89.18	38.55	35.33	10.24	30.66	316	56	P	H
		5945.2	52.27	-16.03	68.3	37.26	35.42	10.26	30.67	316	56	P	H
	*	5825	114.98	-	-	100.2	35.22	10.19	30.63	172	77	P	V
	*	5825	108.26	-	-	93.48	35.22	10.19	30.63	172	77	A	V
		5850	62.57	-59.63	122.2	47.77	35.25	10.19	30.64	172	77	P	V
		5855.6	64.65	-45.98	110.63	49.8	35.28	10.21	30.64	172	77	P	V
		5886.4	54.5	-42.24	96.74	39.63	35.31	10.21	30.65	172	77	P	V
		5932	53.28	-15.02	68.3	38.32	35.39	10.24	30.67	172	77	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-3 5725~5850MHz

WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	48.87	-25.13	74	54.5	38.58	13.7	57.91	100	182	P	H
		11490	40.15	-13.85	54	45.78	38.58	13.7	57.91	100	182	A	H
		17235	55.58	-12.72	68.3	54.59	41.29	16.53	56.83	133	246	P	H
		11490	48.92	-25.08	74	54.55	38.58	13.7	57.91	122	315	P	V
		11490	39.63	-14.37	54	45.26	38.58	13.7	57.91	122	315	A	V
		17235	54.74	-13.56	68.3	53.75	41.29	16.53	56.83	165	248	P	V
802.11a CH 157 5785MHz		11570	49.9	-24.1	74	55.43	38.68	13.7	57.91	100	269	P	H
		11570	40.16	-13.84	54	45.69	38.68	13.7	57.91	100	269	A	H
		17355	54.27	-14.03	68.3	53.38	41.34	16.5	56.95	322	147	P	H
		11570	50.07	-23.93	74	55.6	38.68	13.7	57.91	132	236	P	V
		11570	40.3	-13.7	54	45.83	38.68	13.7	57.91	132	236	A	V
		17355	54.36	-13.94	68.3	53.47	41.34	16.5	56.95	152	325	P	V
802.11a CH 165 5825MHz		11650	50.87	-23.13	74	56.34	38.77	13.69	57.93	100	65	P	H
		11650	39.74	-14.26	54	45.21	38.77	13.69	57.93	100	65	A	H
		17475	55.04	-13.26	68.3	54.25	41.39	16.47	57.07	100	56	P	H
		11650	50.71	-23.29	74	56.18	38.77	13.69	57.93	100	25	P	V
		11650	39.79	-14.21	54	45.26	38.77	13.69	57.93	100	25	A	V
		17475	55.01	-13.29	68.3	54.22	41.39	16.47	57.07	125	36	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-3 5725~5850MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5631.6	51.75	-16.55	68.3	37.34	34.89	10.07	30.55	307	56	P	H
		5684.8	51.84	-42.18	94.02	37.32	35	10.09	30.57	307	56	P	H
		5719.4	58.6	-52.03	110.63	44.01	35.06	10.12	30.59	307	56	P	H
		5724.6	65.99	-55.3	121.29	51.4	35.06	10.12	30.59	307	56	P	H
	*	5745	106.28	-	-	91.65	35.09	10.14	30.6	307	56	P	H
	*	5745	99.01	-	-	84.38	35.09	10.14	30.6	307	56	A	H
		5638.4	53.09	-15.21	68.3	38.66	34.92	10.07	30.56	182	78	P	V
		5698.2	56.37	-47.51	103.88	41.86	35	10.09	30.58	182	78	P	V
		5719.6	67.31	-43.38	110.69	52.72	35.06	10.12	30.59	182	78	P	V
		5724.6	74.71	-46.58	121.29	60.12	35.06	10.12	30.59	182	78	P	V
	*	5745	114.94	-	-	100.31	35.09	10.14	30.6	182	78	P	V
	*	5745	107.74	-	-	93.11	35.09	10.14	30.6	182	78	A	V



WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5644.8	52.8	-15.5	68.3	38.37	34.92	10.07	30.56	311	51	P	H
		5662.6	52.44	-25.19	77.63	37.97	34.95	10.09	30.57	311	51	P	H
		5710	52.78	-55.22	108	38.21	35.03	10.12	30.58	311	51	P	H
		5725	52.9	-69.3	122.2	38.31	35.06	10.12	30.59	311	51	P	H
	*	5785	104.16	-	-	89.47	35.14	10.16	30.61	311	51	P	H
	*	5785	96.89	-	-	82.2	35.14	10.16	30.61	311	51	A	H
		5854.4	51.64	-60.53	112.17	36.81	35.28	10.19	30.64	311	51	P	H
		5859.2	52.58	-57.04	109.62	37.73	35.28	10.21	30.64	311	51	P	H
		5889.4	53.35	-41.16	94.51	38.46	35.33	10.21	30.65	311	51	P	H
		5925.6	52.26	-16.04	68.3	37.3	35.39	10.24	30.67	311	51	P	H
		5650	53.27	-15.03	68.3	38.81	34.95	10.07	30.56	177	78	P	V
		5699	54.78	-49.69	104.47	40.27	35	10.09	30.58	177	78	P	V
		5713.6	55.93	-53.08	109.01	41.37	35.03	10.12	30.59	177	78	P	V
		5720	54.03	-56.77	110.8	39.44	35.06	10.12	30.59	177	78	P	V
	*	5785	114.12	-	-	99.43	35.14	10.16	30.61	177	78	P	V
	*	5785	107.31	-	-	92.62	35.14	10.16	30.61	177	78	A	V
		5851	54.55	-65.37	119.92	39.75	35.25	10.19	30.64	177	78	P	V
		5862.8	55.53	-53.08	108.61	40.68	35.28	10.21	30.64	177	78	P	V
		5921.2	54.12	-16.88	71	39.19	35.36	10.24	30.67	177	78	P	V
		5935	53.32	-14.98	68.3	38.34	35.39	10.26	30.67	177	78	P	V



WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	104.98	-	-	90.2	35.22	10.19	30.63	306	52	P	H
	*	5825	98.44	-	-	83.66	35.22	10.19	30.63	306	52	A	H
		5850.2	60.89	-60.85	121.74	46.09	35.25	10.19	30.64	306	52	P	H
		5859.8	57.29	-52.16	109.45	42.44	35.28	10.21	30.64	306	52	P	H
		5913	52.64	-24.41	77.05	37.7	35.36	10.24	30.66	306	52	P	H
		5931.4	51.8	-16.5	68.3	36.84	35.39	10.24	30.67	306	52	P	H
	*	5825	114.55	-	-	99.77	35.22	10.19	30.63	189	81	P	V
	*	5825	106.9	-	-	92.12	35.22	10.19	30.63	189	81	A	V
		5852.6	65.52	-50.75	116.27	50.72	35.25	10.19	30.64	189	81	P	V
		5856.8	61.44	-48.86	110.3	46.59	35.28	10.21	30.64	189	81	P	V
		5895	55.31	-35.05	90.36	40.4	35.33	10.24	30.66	189	81	P	V
		5926.2	52.93	-15.37	68.3	37.97	35.39	10.24	30.67	189	81	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-3 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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	49.15	-24.85	74	54.78	38.58	13.7	57.91	112	326	P	H
		11490	39.79	-14.21	54	45.42	38.58	13.7	57.91	112	326	A	H
		17235	55.12	-13.18	68.3	54.13	41.29	16.53	56.83	166	248	P	H
		11490	49.47	-24.53	74	55.1	38.58	13.7	57.91	138	142	P	V
		11490	40.77	-13.23	54	46.4	38.58	13.7	57.91	138	142	A	V
		17235	54.55	-13.75	68.3	53.56	41.29	16.53	56.83	143	252	P	V
802.11n HT20 CH 157 5785MHz		11570	49.5	-24.5	74	55.03	38.68	13.7	57.91	103	298	P	H
		11570	41.14	-12.86	54	46.67	38.68	13.7	57.91	103	298	A	H
		17355	54.43	-13.87	68.3	53.54	41.34	16.5	56.95	322	189	P	H
		11570	49.85	-24.15	74	55.38	38.68	13.7	57.91	110	326	P	V
		11570	41.34	-12.66	54	46.87	38.68	13.7	57.91	110	326	A	V
		17355	55.44	-12.86	68.3	54.55	41.34	16.5	56.95	143	215	P	V
802.11n HT20 CH 165 5825MHz		11650	49.85	-24.15	74	55.32	38.77	13.69	57.93	114	241	P	H
		11650	40.73	-13.27	54	46.2	38.77	13.69	57.93	114	241	A	H
		17475	54.43	-13.87	68.3	53.64	41.39	16.47	57.07	146	232	P	H
		11650	50.3	-23.7	74	55.77	38.77	13.69	57.93	226	128	P	V
		11650	41.18	-12.82	54	46.65	38.77	13.69	57.93	226	128	A	V
		17475	55.62	-12.68	68.3	54.83	41.39	16.47	57.07	248	315	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-3 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5621.8	53.22	-15.08	68.3	38.81	34.89	10.07	30.55	291	53	P	H
		5699	57.29	-47.18	104.47	42.78	35	10.09	30.58	291	53	P	H
		5718.8	66.9	-43.56	110.46	52.31	35.06	10.12	30.59	291	53	P	H
		5723.4	69.45	-49.1	118.55	54.86	35.06	10.12	30.59	291	53	P	H
	*	5755	104.36	-	-	89.71	35.11	10.14	30.6	291	53	P	H
	*	5755	96.99	-	-	82.34	35.11	10.14	30.6	291	53	A	H
		5854.8	51.86	-59.4	111.26	37.03	35.28	10.19	30.64	291	53	P	H
		5866	53.55	-54.17	107.72	38.7	35.28	10.21	30.64	291	53	P	H
		5903.6	52.81	-31.19	84	37.9	35.33	10.24	30.66	291	53	P	H
		5935	52.52	-15.78	68.3	37.54	35.39	10.26	30.67	291	53	P	H
		5610.2	53.52	-14.78	68.3	39.15	34.87	10.05	30.55	196	77	P	V
		5697.4	63.52	-39.77	103.29	49.01	35	10.09	30.58	196	77	P	V
		5716.8	75.76	-34.15	109.91	61.2	35.03	10.12	30.59	196	77	P	V
		5721.8	79.78	-35.12	114.9	65.19	35.06	10.12	30.59	196	77	P	V
	*	5755	111.92	-	-	97.27	35.11	10.14	30.6	196	77	P	V
	*	5755	104.06	-	-	89.41	35.11	10.14	30.6	196	77	A	V
		5850.4	53.51	-67.78	121.29	38.71	35.25	10.19	30.64	196	77	P	V
		5855	53.04	-57.76	110.8	38.21	35.28	10.19	30.64	196	77	P	V
		5891.8	53.76	-38.97	92.73	38.87	35.33	10.21	30.65	196	77	P	V
		5929	53.07	-15.23	68.3	38.11	35.39	10.24	30.67	196	77	P	V



WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5617.8	52.08	-16.22	68.3	37.69	34.89	10.05	30.55	310	55	P	H
		5697.4	52.26	-51.03	103.29	37.75	35	10.09	30.58	310	55	P	H
		5713	53.23	-55.61	108.84	38.66	35.03	10.12	30.58	310	55	P	H
		5722.4	54.09	-62.18	116.27	39.5	35.06	10.12	30.59	310	55	P	H
	*	5795	103.96	-	-	89.25	35.17	10.16	30.62	310	55	P	H
	*	5795	97.34	-	-	82.63	35.17	10.16	30.62	310	55	A	H
		5851.6	56.58	-61.97	118.55	41.78	35.25	10.19	30.64	310	55	P	H
		5856.6	55.49	-54.86	110.35	40.64	35.28	10.21	30.64	310	55	P	H
		5883.4	52.86	-46.1	98.96	37.99	35.31	10.21	30.65	310	55	P	H
		5932.2	53.16	-15.14	68.3	38.2	35.39	10.24	30.67	310	55	P	H
		5621.4	53.24	-15.06	68.3	38.85	34.89	10.05	30.55	201	63	P	V
		5677.8	54.84	-34.02	88.86	40.34	34.98	10.09	30.57	201	63	P	V
		5717	58	-51.96	109.96	43.44	35.03	10.12	30.59	201	63	P	V
		5720.6	58.8	-53.37	112.17	44.21	35.06	10.12	30.59	201	63	P	V
	*	5795	112.13	-	-	97.42	35.17	10.16	30.62	201	63	P	V
	*	5795	104.99	-	-	90.28	35.17	10.16	30.62	201	63	A	V
		5850.6	62.54	-58.29	120.83	47.74	35.25	10.19	30.64	201	63	P	V
		5860.4	60.3	-48.99	109.29	45.45	35.28	10.21	30.64	201	63	P	V
		5875.4	55.88	-49.02	104.9	41.01	35.31	10.21	30.65	201	63	P	V
		5925.8	53.11	-15.19	68.3	38.15	35.39	10.24	30.67	201	63	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-3 5725~5850MHz

WIFI 802.11n HT40 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11550	50.91	-23.09	74	56.46	38.66	13.7	57.91	138	211	P	H
		11550	41.7	-12.3	54	47.25	38.66	13.7	57.91	138	211	A	H
		17325	54.24	-14.06	68.3	53.33	41.33	16.5	56.92	123	285	P	H
		11550	49.82	-24.18	74	55.37	38.66	13.7	57.91	136	248	P	V
		11550	41.03	-12.97	54	46.58	38.66	13.7	57.91	136	248	A	V
		17325	53.95	-14.35	68.3	53.04	41.33	16.5	56.92	328	124	P	V
802.11n HT40 CH 159 5795MHz		11590	49.92	-24.08	74	55.45	38.7	13.69	57.92	100	315	P	H
		11590	40.69	-13.31	54	46.22	38.7	13.69	57.92	100	315	A	H
		17385	54.31	-13.99	68.3	53.44	41.36	16.49	56.98	218	326	P	H
		11590	49.16	-24.84	74	54.69	38.7	13.69	57.92	142	226	P	V
		11590	40.41	-13.59	54	45.94	38.7	13.69	57.92	142	226	A	V
		17385	54.57	-13.73	68.3	53.7	41.36	16.49	56.98	165	132	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-3 5725~5850MHz

WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		5635.2	53.83	-14.47	68.3	39.4	34.92	10.07	30.56	305	53	P	H
		5698.8	64.4	-39.92	104.32	49.89	35	10.09	30.58	305	53	P	H
		5718.4	67.12	-43.23	110.35	52.53	35.06	10.12	30.59	305	53	P	H
		5725	67.63	-54.57	122.2	53.04	35.06	10.12	30.59	305	53	P	H
	*	5775	99.59	-	-	84.92	35.14	10.14	30.61	305	53	P	H
	*	5775	92.36	-	-	77.69	35.14	10.14	30.61	305	53	A	H
		5851	64.01	-55.91	119.92	49.21	35.25	10.19	30.64	305	53	P	H
		5855.4	63.06	-47.63	110.69	48.23	35.28	10.19	30.64	305	53	P	H
		5875.4	56.42	-48.48	104.9	41.55	35.31	10.21	30.65	305	53	P	H
		5930.6	53.39	-14.91	68.3	38.43	35.39	10.24	30.67	305	53	P	H
		5649	58.57	-9.73	68.3	44.14	34.92	10.07	30.56	188	80	P	V
		5697.4	71.55	-31.74	103.29	57.04	35	10.09	30.58	188	80	P	V
		5701	72.45	-33.03	105.48	57.88	35.03	10.12	30.58	188	80	P	V
		5720	76.88	-33.92	110.8	62.29	35.06	10.12	30.59	188	80	P	V
	*	5775	106.87	-	-	92.2	35.14	10.14	30.61	188	80	P	V
	*	5775	100.27	-	-	85.6	35.14	10.14	30.61	188	80	A	V
		5852.8	68.86	-46.96	115.82	54.06	35.25	10.19	30.64	188	80	P	V
		5855.8	67.7	-42.88	110.58	52.85	35.28	10.21	30.64	188	80	P	V
		5875	61.52	-43.68	105.2	46.65	35.31	10.21	30.65	188	80	P	V
		5929.4	54.91	-13.39	68.3	39.95	35.39	10.24	30.67	188	80	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



U-NII-3 5725~5850MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 0+1	Note	Frequency (MHz)	Level (dBμV/m)	Margin (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		11550	49.98	-24.02	74	55.53	38.66	13.7	57.91	256	178	P	H
		11550	41.07	-12.93	54	46.62	38.66	13.7	57.91	256	178	A	H
		17325	53.81	-14.49	68.3	52.9	41.33	16.5	56.92	127	245	P	H
		11550	49.63	-24.37	74	55.18	38.66	13.7	57.91	100	159	P	V
		11550	40.83	-13.17	54	46.38	38.66	13.7	57.91	100	159	A	V
		17325	54.48	-13.82	68.3	53.57	41.33	16.5	56.92	326	122	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



Emission below 1GHz

5GHz WIFI 802.11ac VHT80 (LF)

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT80 LF		102.75	21.43	-22.07	43.5	40.11	15.3	1.21	35.19	-	-	P	H
		196.84	25.73	-17.77	43.5	42.46	16.51	1.86	35.1	-	-	P	H
		320.03	26.73	-19.27	46	38.97	20.23	2.43	34.9	-	-	P	H
		532.46	23.52	-22.48	46	30.53	24.44	3.19	34.64	-	-	P	H
		736.16	26.25	-19.75	46	29.31	27.56	3.81	34.43	-	-	P	H
		974.78	29.79	-24.21	54	29.61	29.99	4.34	34.15	-	-	P	H
		36.79	27.08	-12.92	40	42.09	19.38	0.61	35	-	-	P	V
		196.84	27.57	-15.93	43.5	44.3	16.51	1.86	35.1	-	-	P	V
		332.64	23.87	-22.13	46	35.67	20.63	2.47	34.9	-	-	P	V
		587.75	27.08	-18.92	46	32.6	25.57	3.44	34.53	-	-	P	V
		792.42	27.9	-18.1	46	30.14	28.15	3.93	34.32	-	-	P	V
		988.36	28.84	-25.16	54	28.48	30.13	4.35	34.12	-	-	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 Margin line.
P/A	Peak or Average
H/V	Horizontal or Vertical



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

WIFI	Note	Frequency	Level	Margin	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
0+1		(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. Margin (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. Margin (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. Margin (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. Radiated Spurious Emission Plots

Note symbol

-L	Low channel location
-R	High channel location



U-NII-3 - 5725~5850MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	U-NII-3 5725~5850MHz Band Edge @ 3m																																																																									
ANT	802.11a CH149 5745MHz																																																																									
0+1	Horizontal	Fundamental																																																																								
Peak	Data: 1 Site : 03C402-SZ Condition : PEAK_RE(B4)_16-24 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : IS SN : 6082MM033087000K Plane : Y with Accessories 6dB power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>dB</th><th>cm</th><th>deg</th><th>Remark</th></tr><tr><td>1 * 5615.00</td><td>52.28</td><td>16.82</td><td>68.30</td><td>37.91</td><td>34.87</td><td>18.85</td><td>30.55</td><td>40 Peak</td></tr><tr><td>2 5700.00</td><td>52.27</td><td>52.93</td><td>185.20</td><td>37.73</td><td>35.00</td><td>18.12</td><td>30.58</td><td>40 Peak</td></tr><tr><td>3 5720.20</td><td>58.36</td><td>52.22</td><td>110.10</td><td>43.77</td><td>35.06</td><td>18.12</td><td>30.59</td><td>40 Peak</td></tr><tr><td>4 5724.69</td><td>62.71</td><td>58.58</td><td>121.29</td><td>48.12</td><td>35.06</td><td>18.12</td><td>30.59</td><td>40 Peak</td></tr></table>	Freq	Level	Line	Level Factor	Loss Factor	dB	cm	deg	Remark	1 * 5615.00	52.28	16.82	68.30	37.91	34.87	18.85	30.55	40 Peak	2 5700.00	52.27	52.93	185.20	37.73	35.00	18.12	30.58	40 Peak	3 5720.20	58.36	52.22	110.10	43.77	35.06	18.12	30.59	40 Peak	4 5724.69	62.71	58.58	121.29	48.12	35.06	18.12	30.59	40 Peak	Data: 2 Site : 03C402-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : IS SN : 6082MM033087000K Plane : Y with Accessories 6dB power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>dB</th><th>cm</th><th>deg</th><th>Remark</th></tr><tr><td>1 * 5745.00</td><td>186.88</td><td>38.58</td><td>92.25</td><td>35.89</td><td>18.14</td><td>30.68</td><td>100</td><td>40 Peak</td></tr><tr><td>2 5745.00</td><td>180.31</td><td>.....</td><td>85.68</td><td>35.89</td><td>18.14</td><td>30.68</td><td>100</td><td>40 Average</td></tr></table>	Freq	Level	Line	Level Factor	Loss Factor	dB	cm	deg	Remark	1 * 5745.00	186.88	38.58	92.25	35.89	18.14	30.68	100	40 Peak	2 5745.00	180.31		85.68	35.89	18.14	30.68	100	40 Average
	Freq	Level	Line	Level Factor	Loss Factor	dB	cm	deg	Remark																																																																	
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WIFI	U-NII-3 5725~5850MHz Band Edge @ 3m																																																																																																					
ANT	802.11a CH149 5745MHz																																																																																																					
0+1	Vertical	Fundamental																																																																																																				
Peak	Date: 3 Date: 2023-04-05 PEAK_BE(84)_16-24 Site : 030402-SZ Condition : PEAK_BE(84)_16-24 3m HF_ANT_3117_0107 VERTICAL Project : ZN2209-01 Mode : Mode 35 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 *</td><td>5637.88</td><td>53.51</td><td>-14.79</td><td>68.38</td><td>39.88</td><td>34.92</td><td>18.87</td><td>38.56</td><td>181 77 Peak</td></tr><tr><td>2</td><td>5699.28</td><td>55.49</td><td>-49.12</td><td>104.61</td><td>48.98</td><td>35.88</td><td>18.89</td><td>38.58</td><td>181 77 Peak</td></tr><tr><td>3</td><td>5732.28</td><td>60.34</td><td>-45.36</td><td>115.69</td><td>58.65</td><td>35.86</td><td>18.12</td><td>38.59</td><td>181 77 Peak</td></tr><tr><td>4</td><td>5745.88</td><td>78.23</td><td>-51.51</td><td>129.74</td><td>55.64</td><td>35.86</td><td>18.12</td><td>38.59</td><td>181 77 Peak</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dB/m	dB	cm	deg		1 *	5637.88	53.51	-14.79	68.38	39.88	34.92	18.87	38.56	181 77 Peak	2	5699.28	55.49	-49.12	104.61	48.98	35.88	18.89	38.58	181 77 Peak	3	5732.28	60.34	-45.36	115.69	58.65	35.86	18.12	38.59	181 77 Peak	4	5745.88	78.23	-51.51	129.74	55.64	35.86	18.12	38.59	181 77 Peak	Date: 4 Date: 2023-04-05 PART 15.407 Site : 030402-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : ZN2209-01 Mode : Mode 35 SN : 6082MM033087000K Plane : Y with Accessories : 6M power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBm/Vm</th><th>dB</th><th>dBm/Vm</th><th>dBm/Vm</th><th>dB/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 *</td><td>5745.88</td><td>115.37</td><td>47.87</td><td>68.38</td><td>188.74</td><td>35.89</td><td>18.14</td><td>38.68</td><td>181 77 Peak</td></tr><tr><td>2</td><td>5745.88</td><td>187.84</td><td>.....</td><td>92.41</td><td>35.89</td><td>18.14</td><td>38.68</td><td>181</td><td>77 Average</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBm/Vm	dB	dBm/Vm	dBm/Vm	dB/m	dB	cm	deg		1 *	5745.88	115.37	47.87	68.38	188.74	35.89	18.14	38.68	181 77 Peak	2	5745.88	187.84		92.41	35.89	18.14	38.68	181	77 Average
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WIFI	U-NII-3 5725~5850MHz Band Edge @ 3m																																																																																																					
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WIFI 802.11n HT20 (Band Edge @ 3m)

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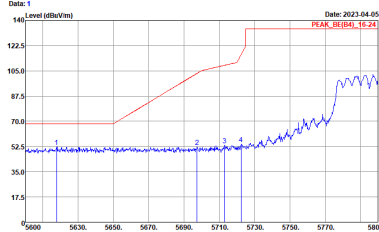
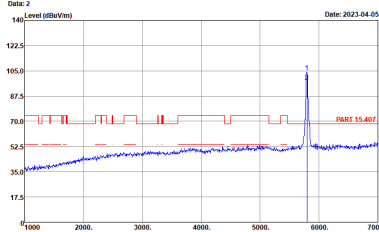
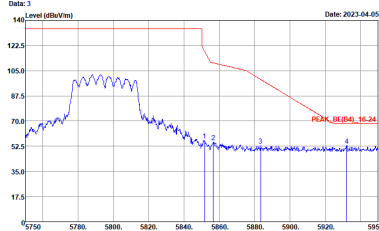
U-NII-3 5725~5850MHz
WIFI 802.11n HT40 (Band Edge @ 3m)

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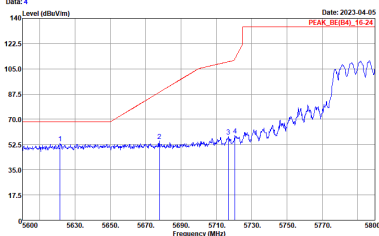
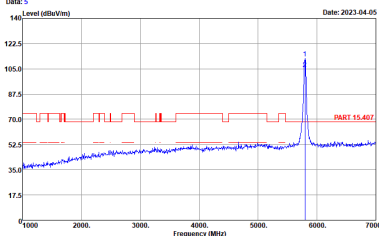
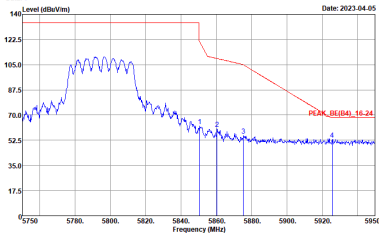


WIFI	U-NII-3 5725~5850MHz Band Edge @ 3m	
ANT	802.11n HT40 CH151 5755MHz	
0+1	Vertical	Fundamental
Peak	Site : 03CH02-SZ Condition : PEAK_BE(84)_16-24 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 41 SN : 6082MM033087000K Plane : Y with Accessories MCSD power setting 18 1 * 5618.28 53.52 -14.78 68.38 39.15 34.87 18.85 38.55 196 77 Peak 2 5697.48 63.52 -19.77 185.29 49.81 35.88 18.89 38.58 196 77 Peak 3 5710.88 75.79 -16.15 189.91 61.28 35.83 18.12 38.59 196 77 Peak 4 5721.88 79.78 -15.12 114.90 65.19 35.86 18.12 38.59 196 77 Peak	Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 41 SN : 6082MM033087000K Plane : Y with Accessories MCSD power setting 18 1 * 5755.88 111.92 43.62 68.38 97.27 35.11 18.14 38.68 196 77 Peak 2 5755.88 184.86 89.41 35.11 18.14 38.68 196 77 Average
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WIFI	U-NII-3 5725~5850MHz Band Edge @ 3m																																																																																																					
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ANT	802.11n HT40 CH159 5795MHz	
0+1	Vertical	Fundamental
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U-NII-3 5725~5850MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

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U-NII-3 - 5725~5850MHz
WIFI 802.11a (Harmonic @ 3m)

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Peak Avg.	Date: 13 Level (dBuV/m) Date: 2023-04-21 Horizontal Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a baseline around 50 dBuV/m with a significant peak at approximately 5745 MHz reaching about 105 dBuV/m. A red line indicates the Part 15.407 limit, and a dashed red line indicates the Part 15.407 (M) limit. Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : ZN2209-01 Mode : Mode 35 SN : G082MM033067000K Plane : Y with Accessories : 6dB power setting 18 <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>11400.00</td><td>48.87</td><td>-25.13</td><td>74.00</td><td>54.58</td><td>38.58</td><td>13.78</td><td>57.91</td><td>180</td><td>182 Peak</td></tr><tr><td>2</td><td>11400.00</td><td>48.15</td><td>-13.85</td><td>54.00</td><td>45.78</td><td>38.58</td><td>13.78</td><td>57.91</td><td>180</td><td>182 Average</td></tr><tr><td>3</td><td>17235.00</td><td>55.58</td><td>-12.72</td><td>68.38</td><td>54.59</td><td>41.29</td><td>16.53</td><td>56.83</td><td>133</td><td>246 Peak</td></tr></tbody></table>					Freq	Level	Limit	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	dB	deg	1	11400.00	48.87	-25.13	74.00	54.58	38.58	13.78	57.91	180	182 Peak	2	11400.00	48.15	-13.85	54.00	45.78	38.58	13.78	57.91	180	182 Average	3	17235.00	55.58	-12.72	68.38	54.59	41.29	16.53	56.83	133	246 Peak	Date: 14 Level (dBuV/m) Date: 2023-04-21 Vertical Peak Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a baseline around 50 dBuV/m with a significant peak at approximately 5745 MHz reaching about 105 dBuV/m. A red line indicates the Part 15.407 limit, and a dashed red line indicates the Part 15.407 (M) limit. Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : ZN2209-01 Mode : Mode 35 SN : G082MM033067000K Plane : Y with Accessories : 6dB power setting 18 <table><thead><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>11400.00</td><td>48.82</td><td>-25.08</td><td>74.00</td><td>54.55</td><td>38.58</td><td>13.78</td><td>57.91</td><td>122</td><td>315 Peak</td></tr><tr><td>2</td><td>11400.00</td><td>49.63</td><td>-14.37</td><td>54.00</td><td>45.26</td><td>38.58</td><td>13.78</td><td>57.91</td><td>122</td><td>315 Average</td></tr><tr><td>3</td><td>17235.00</td><td>54.74</td><td>-13.56</td><td>68.38</td><td>55.75</td><td>41.29</td><td>16.53</td><td>56.83</td><td>100</td><td>246 Peak</td></tr></tbody></table>					Freq	Level	Limit	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	dB	deg	1	11400.00	48.82	-25.08	74.00	54.55	38.58	13.78	57.91	122	315 Peak	2	11400.00	49.63	-14.37	54.00	45.26	38.58	13.78	57.91	122	315 Average	3	17235.00	54.74	-13.56	68.38	55.75	41.29	16.53	56.83	100	246 Peak
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Freq	Level	Limit	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																														
MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	dB	dB	dB	deg																																																																																																														
1	11400.00	48.82	-25.08	74.00	54.55	38.58	13.78	57.91	122	315 Peak																																																																																																														
2	11400.00	49.63	-14.37	54.00	45.26	38.58	13.78	57.91	122	315 Average																																																																																																														
3	17235.00	54.74	-13.56	68.38	55.75	41.29	16.53	56.83	100	246 Peak																																																																																																														



WIFI	U-NII-3 5725~5850MHz Harmonic @ 3m	
ANT	802.11a CH157 5785MHz	
0+1	Horizontal	Vertical
Peak Avg.	Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : ZN2209-01 Mode : Mode 36 SN : 6082MM033087000K Plane : Y with Accessories 6dB power setting 18 1 11578.00 49.90 -24.18 74.00 55.43 38.68 13.78 57.91 180 269 Peak 2 * 11578.00 49.16 -13.84 54.00 45.69 38.68 13.78 57.91 180 269 Average 3 17355.00 54.27 -15.49 60.38 41.34 16.58 56.95 132 147 Peak	Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : ZN2209-01 Mode : Mode 36 SN : 6082MM033087000K Plane : Y with Accessories 6dB power setting 18 1 11578.00 58.87 -23.93 74.00 55.68 38.68 13.78 57.91 132 236 Peak 2 * 11578.00 49.30 -15.78 54.00 45.83 38.68 13.78 57.91 132 236 Average 3 17355.00 54.36 -15.94 60.38 41.37 16.58 56.95 132 235 Peak



WIFI	U-NII-3 5725~5850MHz Harmonic @ 3m																																																																																																													
ANT	802.11a CH165 5825MHz																																																																																																													
0+1	Horizontal					Vertical																																																																																																								
Peak Avg.	Date: 13 Level (dBuV/m) Date: 2023.04.04 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 37 SN : 6082MM033087000K Plane : Y with Accessories 6dB power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 11658.00</td><td>58.87</td><td>-23.13</td><td>74.00</td><td>56.34</td><td>38.77</td><td>13.69</td><td>57.93</td><td>100</td><td>65 Peak</td></tr><tr><td>2 11658.00</td><td>39.74</td><td>-14.26</td><td>54.00</td><td>45.21</td><td>38.77</td><td>13.69</td><td>57.93</td><td>100</td><td>65 Average</td></tr><tr><td>3 11675.00</td><td>55.06</td><td>-13.94</td><td>68.00</td><td>54.12</td><td>41.39</td><td>16.47</td><td>57.87</td><td>100</td><td>56 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dBuV/m	dB	cm	deg		1 11658.00	58.87	-23.13	74.00	56.34	38.77	13.69	57.93	100	65 Peak	2 11658.00	39.74	-14.26	54.00	45.21	38.77	13.69	57.93	100	65 Average	3 11675.00	55.06	-13.94	68.00	54.12	41.39	16.47	57.87	100	56 Peak	Date: 14 Level (dBuV/m) Date: 2023.04.05 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 37 SN : 6082MM033087000K Plane : Y with Accessories 6dB power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 11658.00</td><td>58.71</td><td>-23.29</td><td>74.00</td><td>56.18</td><td>38.77</td><td>13.69</td><td>57.93</td><td>100</td><td>25 Peak</td></tr><tr><td>2 11658.00</td><td>39.70</td><td>-14.31</td><td>54.00</td><td>45.20</td><td>38.77</td><td>13.69</td><td>57.93</td><td>100</td><td>25 Average</td></tr><tr><td>3 11675.00</td><td>55.01</td><td>-13.99</td><td>68.00</td><td>54.22</td><td>41.39</td><td>16.47</td><td>57.87</td><td>125</td><td>36 Peak</td></tr></table>					Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dBuV/m	dB	cm	deg		1 11658.00	58.71	-23.29	74.00	56.18	38.77	13.69	57.93	100	25 Peak	2 11658.00	39.70	-14.31	54.00	45.20	38.77	13.69	57.93	100	25 Average	3 11675.00	55.01	-13.99	68.00	54.22	41.39	16.47	57.87	125	36 Peak
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																					
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dBuV/m	dB	cm	deg																																																																																																						
1 11658.00	58.87	-23.13	74.00	56.34	38.77	13.69	57.93	100	65 Peak																																																																																																					
2 11658.00	39.74	-14.26	54.00	45.21	38.77	13.69	57.93	100	65 Average																																																																																																					
3 11675.00	55.06	-13.94	68.00	54.12	41.39	16.47	57.87	100	56 Peak																																																																																																					
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																																					
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dBuV/m	dB	cm	deg																																																																																																						
1 11658.00	58.71	-23.29	74.00	56.18	38.77	13.69	57.93	100	25 Peak																																																																																																					
2 11658.00	39.70	-14.31	54.00	45.20	38.77	13.69	57.93	100	25 Average																																																																																																					
3 11675.00	55.01	-13.99	68.00	54.22	41.39	16.47	57.87	125	36 Peak																																																																																																					



U-NII-3 5725~5850MHz
WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI	U-NII-3 5725~5850MHz Harmonic @ 3m																																																																																																		
ANT	802.11n HT20 CH149 5745MHz																																																																																																		
0+1	Horizontal	Vertical																																																																																																	
Peak Avg.	Date: 13 Level (dBuV/m) Date: 2023-04-21 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : ZN2209-01 Mode : Mode 38 SN : G082MM033067000K Plane : Y with Accessories MCSO power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>deg</th></tr><tr><td>1</td><td>11480.00</td><td>49.15</td><td>-24.85</td><td>74.00</td><td>38.58</td><td>13.78</td><td>57.91</td><td>112</td><td>326 Peak</td></tr><tr><td>2</td><td>11500.00</td><td>39.79</td><td>-15.21</td><td>54.00</td><td>45.42</td><td>38.58</td><td>13.78</td><td>57.91</td><td>132</td><td>326 Average</td></tr><tr><td>3</td><td>17235.00</td><td>55.12</td><td>-13.18</td><td>68.38</td><td>54.13</td><td>41.29</td><td>16.53</td><td>56.83</td><td>166</td><td>248 Peak</td></tr></table>	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	deg	1	11480.00	49.15	-24.85	74.00	38.58	13.78	57.91	112	326 Peak	2	11500.00	39.79	-15.21	54.00	45.42	38.58	13.78	57.91	132	326 Average	3	17235.00	55.12	-13.18	68.38	54.13	41.29	16.53	56.83	166	248 Peak	Date: 14 Level (dBuV/m) Date: 2023-04-21 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : ZN2209-01 Mode : Mode 38 SN : G082MM033067000K Plane : Y with Accessories MCSO power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV</th><th>dB</th><th>dB</th><th>deg</th></tr><tr><td>1</td><td>11480.00</td><td>49.47</td><td>-24.53</td><td>74.00</td><td>55.18</td><td>38.58</td><td>13.78</td><td>57.91</td><td>138</td><td>142 Peak</td></tr><tr><td>2</td><td>11500.00</td><td>48.77</td><td>-15.23</td><td>54.00</td><td>46.48</td><td>38.58</td><td>13.78</td><td>57.91</td><td>138</td><td>142 Average</td></tr><tr><td>3</td><td>17235.00</td><td>54.55</td><td>-13.75</td><td>68.38</td><td>53.56</td><td>41.29</td><td>16.53</td><td>56.83</td><td>143</td><td>252 Peak</td></tr></table>	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	deg	1	11480.00	49.47	-24.53	74.00	55.18	38.58	13.78	57.91	138	142 Peak	2	11500.00	48.77	-15.23	54.00	46.48	38.58	13.78	57.91	138	142 Average	3	17235.00	54.55	-13.75	68.38	53.56	41.29	16.53	56.83	143	252 Peak
	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																											
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	deg																																																																																												
1	11480.00	49.15	-24.85	74.00	38.58	13.78	57.91	112	326 Peak																																																																																										
2	11500.00	39.79	-15.21	54.00	45.42	38.58	13.78	57.91	132	326 Average																																																																																									
3	17235.00	55.12	-13.18	68.38	54.13	41.29	16.53	56.83	166	248 Peak																																																																																									
Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																												
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	deg																																																																																												
1	11480.00	49.47	-24.53	74.00	55.18	38.58	13.78	57.91	138	142 Peak																																																																																									
2	11500.00	48.77	-15.23	54.00	46.48	38.58	13.78	57.91	138	142 Average																																																																																									
3	17235.00	54.55	-13.75	68.38	53.56	41.29	16.53	56.83	143	252 Peak																																																																																									



WIFI	U-NII-3 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT20 CH157 5785MHz	
0+1	Horizontal	Vertical
Peak Avg.	Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : ZN2209-01 Mode : Mode 39 SN : 6082MM033087000K Plane : Y with Accessories MC50 power setting 18 11578.00 49.58 -24.58 74.00 55.83 38.68 13.78 57.91 183 298 Peak 2 * 11578.00 41.14 -12.86 54.00 46.67 38.68 13.78 57.91 183 326 Average 3 17355.00 54.45 -13.87 68.38 53.54 41.34 16.58 56.95 312 189 Peak	Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : ZN2209-01 Mode : Mode 39 SN : 6082MM033087000K Plane : Y with Accessories MC50 power setting 18 11578.00 49.85 -24.15 74.00 55.38 38.68 13.78 57.91 110 326 Peak 2 * 11578.00 41.34 -12.66 54.00 46.87 38.68 13.78 57.91 110 326 Average 3 17355.00 55.44 -12.86 68.38 54.25 41.38 16.58 56.95 343 215 Peak



WIFI	U-NII-3 5725~5850MHz Harmonic @ 3m																																																																																																					
ANT	802.11n HT20 CH165 5825MHz																																																																																																					
0+1	Horizontal	Vertical																																																																																																				
Peak Avg.	Date: 13 Level (dBuV/m) Date: 2023.04.21 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : 2N2209-01 Mode : Mode 40 SN : 6082MM033087000K Plane : Y with Accessories MC50 power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 11659.00</td><td>49.85</td><td>-24.15</td><td>74.00</td><td>55.32</td><td>38.77</td><td>13.69</td><td>57.93</td><td>114</td><td>241 Peak</td></tr><tr><td>2 11659.00</td><td>48.73</td><td>-13.27</td><td>54.00</td><td>46.28</td><td>38.77</td><td>13.69</td><td>57.93</td><td>114</td><td>241 Average</td></tr><tr><td>3 11675.00</td><td>54.43</td><td>-13.57</td><td>68.00</td><td>53.64</td><td>41.39</td><td>16.47</td><td>57.87</td><td>146</td><td>232 Peak</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg		1 11659.00	49.85	-24.15	74.00	55.32	38.77	13.69	57.93	114	241 Peak	2 11659.00	48.73	-13.27	54.00	46.28	38.77	13.69	57.93	114	241 Average	3 11675.00	54.43	-13.57	68.00	53.64	41.39	16.47	57.87	146	232 Peak	Date: 14 Level (dBuV/m) Date: 2023.04.21 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : 2N2209-01 Mode : Mode 40 SN : 6082MM033087000K Plane : Y with Accessories MC50 power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable</th><th>Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 11659.00</td><td>58.38</td><td>-23.78</td><td>74.00</td><td>55.77</td><td>38.77</td><td>13.69</td><td>57.93</td><td>226</td><td>128 Peak</td></tr><tr><td>2 11659.00</td><td>41.10</td><td>-12.82</td><td>54.00</td><td>46.85</td><td>38.77</td><td>13.69</td><td>57.93</td><td>226</td><td>128 Average</td></tr><tr><td>3 11675.00</td><td>105.62</td><td>-12.68</td><td>68.00</td><td>54.83</td><td>41.39</td><td>16.47</td><td>57.87</td><td>248</td><td>315 Peak</td></tr></table>	Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg		1 11659.00	58.38	-23.78	74.00	55.77	38.77	13.69	57.93	226	128 Peak	2 11659.00	41.10	-12.82	54.00	46.85	38.77	13.69	57.93	226	128 Average	3 11675.00	105.62	-12.68	68.00	54.83	41.39	16.47	57.87	248	315 Peak
Freq	Level	Over	Limit	ReadAntenna	Cable	Preamp	A/Pos	T/Pos	Remark																																																																																													
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																																														
1 11659.00	49.85	-24.15	74.00	55.32	38.77	13.69	57.93	114	241 Peak																																																																																													
2 11659.00	48.73	-13.27	54.00	46.28	38.77	13.69	57.93	114	241 Average																																																																																													
3 11675.00	54.43	-13.57	68.00	53.64	41.39	16.47	57.87	146	232 Peak																																																																																													
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MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg																																																																																														
1 11659.00	58.38	-23.78	74.00	55.77	38.77	13.69	57.93	226	128 Peak																																																																																													
2 11659.00	41.10	-12.82	54.00	46.85	38.77	13.69	57.93	226	128 Average																																																																																													
3 11675.00	105.62	-12.68	68.00	54.83	41.39	16.47	57.87	248	315 Peak																																																																																													



U-NII-3 5725~5850MHz
WIFI 802.11n HT40 (Harmonic @ 3m)

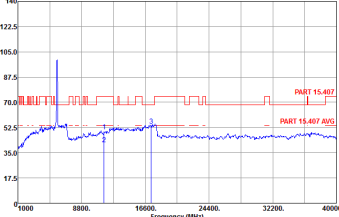
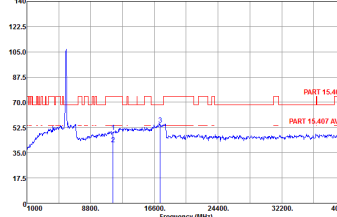
WIFI	U-NII-3 5725~5850MHz Harmonic @ 3m																																																																																																				
ANT	802.11n HT40 CH151 5755MHz																																																																																																				
0+1	Horizontal	Vertical																																																																																																			
Peak Avg.	Date: 15 Level (dBuV/m) Date: 2023-04-21 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : ZN2209-01 Mode : Mode 41 SN : G082MM033067000K Plane : Y with Accessories MCSO power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>deg</th></tr><tr><td>1</td><td>11558.00</td><td>58.91</td><td>-23.89</td><td>74.00</td><td>56.46</td><td>38.66</td><td>13.78</td><td>57.91</td><td>138</td><td>211 Peak</td></tr><tr><td>2</td><td>11559.00</td><td>41.79</td><td>-12.29</td><td>54.00</td><td>47.25</td><td>38.66</td><td>13.78</td><td>57.91</td><td>138</td><td>213 Average</td></tr><tr><td>3</td><td>17325.00</td><td>54.24</td><td>-14.66</td><td>68.38</td><td>53.33</td><td>41.33</td><td>16.58</td><td>56.92</td><td>123</td><td>205 Peak</td></tr></table>	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	deg	1	11558.00	58.91	-23.89	74.00	56.46	38.66	13.78	57.91	138	211 Peak	2	11559.00	41.79	-12.29	54.00	47.25	38.66	13.78	57.91	138	213 Average	3	17325.00	54.24	-14.66	68.38	53.33	41.33	16.58	56.92	123	205 Peak	Date: 16 Level (dBuV/m) Date: 2023-04-21 Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : ZN2209-01 Mode : Mode 41 SN : G082MM033067000K Plane : Y with Accessories MCSO power setting 18 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>dB</th><th>cn</th><th>deg</th></tr><tr><td>1</td><td>11558.00</td><td>49.82</td><td>-14.18</td><td>74.00</td><td>55.37</td><td>38.66</td><td>13.78</td><td>57.91</td><td>136</td><td>248 Peak</td></tr><tr><td>2</td><td>11559.00</td><td>41.05</td><td>-12.95</td><td>54.00</td><td>46.38</td><td>38.66</td><td>13.78</td><td>57.91</td><td>136</td><td>249 Average</td></tr><tr><td>3</td><td>17325.00</td><td>53.95</td><td>-14.35</td><td>68.38</td><td>53.04</td><td>41.33</td><td>16.58</td><td>56.92</td><td>124</td><td>124 Peak</td></tr></table>	Freq	Level	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark	MHz	dBuV/m	dB	dBuV/m	dB	dB	dB	cn	deg	1	11558.00	49.82	-14.18	74.00	55.37	38.66	13.78	57.91	136	248 Peak	2	11559.00	41.05	-12.95	54.00	46.38	38.66	13.78	57.91	136	249 Average	3	17325.00	53.95	-14.35	68.38	53.04	41.33	16.58	56.92	124	124 Peak
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WIFI	U-NII-3 5725~5850MHz Harmonic @ 3m	
ANT	802.11n HT40 CH159 5795MHz	
0+1	Horizontal	Vertical
Peak Avg.	Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 HORIZONTAL Project : ZN2209-01 Mode : Mode 42 SN : 6082MM033087000K Plane : Y with Accessories MC50 power setting 18 11598.00 49.92 -24.88 74.00 55.45 38.78 13.69 57.92 180 315 Peak 2 * 11598.00 49.69 -13.31 54.00 46.22 38.78 13.69 57.92 180 315 Average 3 17395.00 54.31 -13.99 60.38 53.64 41.36 16.49 56.98 100 315 Peak	Site : 03CH02-SZ Condition : PART 15.407 3m HF_ANT_3117_0107 VERTICAL Project : ZN2209-01 Mode : Mode 42 SN : 6082MM033087000K Plane : Y with Accessories MC50 power setting 18 11598.00 49.16 -24.84 74.00 54.69 38.78 13.69 57.92 142 226 Peak 2 * 11598.00 48.41 -13.99 54.00 45.94 38.78 13.69 57.92 142 226 Average 3 17395.00 54.27 -13.73 60.38 53.78 41.36 16.49 56.98 100 315 Peak



U-NII-3 5725~5850MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	U-NII-3 5725~5850MHz Harmonic @ 3m																																																																																																													
ANT	802.11ac VHT80 CH155 5775MHz																																																																																																													
0+1	Horizontal					Vertical																																																																																																								
Peak Avg.	Date: 19 Level (dBuV/m)  Date: 2023-04-05 Site : 03CH02-SZ Condition : PART 15.407 3m HP_ANT_3117_0107 HORIZONTAL Project : 2HG209-01 Mode : Mode 43 SN : G082MM033087000K Plane : Y with Accessories MCS9 power setting 18 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>11550.00</td><td>49.08</td><td>-24.82</td><td>74.00</td><td>55.53</td><td>38.66</td><td>13.70</td><td>57.91</td><td>256 178 Peak</td></tr><tr><td>2</td><td>11550.00</td><td>41.87</td><td>-12.93</td><td>54.00</td><td>46.42</td><td>38.66</td><td>13.70</td><td>57.91</td><td>256 178 Average</td></tr><tr><td>3</td><td>17325.00</td><td>53.81</td><td>-14.49</td><td>68.30</td><td>51.90</td><td>41.13</td><td>16.50</td><td>56.92</td><td>127 245 Peak</td></tr></tbody></table>						Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg	1	11550.00	49.08	-24.82	74.00	55.53	38.66	13.70	57.91	256 178 Peak	2	11550.00	41.87	-12.93	54.00	46.42	38.66	13.70	57.91	256 178 Average	3	17325.00	53.81	-14.49	68.30	51.90	41.13	16.50	56.92	127 245 Peak	Date: 20 Level (dBuV/m)  Date: 2023-04-05 Site : 03CH02-SZ Condition : PART 15.407 3m HP_ANT_3117_0107 VERTICAL Project : 2HG209-01 Mode : Mode 43 SN : G082MM033087000K Plane : Y with Accessories MCS9 power setting 18 <table><thead><tr><th></th><th>Freq</th><th>Level</th><th>Over</th><th>Limit</th><th>ReadAntenna</th><th>Cable Preamp</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>11550.00</td><td>49.63</td><td>-24.37</td><td>74.00</td><td>55.18</td><td>38.66</td><td>13.70</td><td>57.91</td><td>100 159 Peak</td></tr><tr><td>2</td><td>11550.00</td><td>40.83</td><td>-13.17</td><td>54.00</td><td>46.38</td><td>38.66</td><td>13.70</td><td>57.91</td><td>100 159 Average</td></tr><tr><td>3</td><td>17325.00</td><td>54.48</td><td>-13.82</td><td>68.30</td><td>53.57</td><td>41.13</td><td>16.50</td><td>56.92</td><td>326 122 Peak</td></tr></tbody></table>						Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	dB	cm	deg	1	11550.00	49.63	-24.37	74.00	55.18	38.66	13.70	57.91	100 159 Peak	2	11550.00	40.83	-13.17	54.00	46.38	38.66	13.70	57.91	100 159 Average	3	17325.00	54.48	-13.82	68.30	53.57	41.13	16.50	56.92	326 122 Peak
		Freq	Level	Over	Limit	ReadAntenna	Cable Preamp	A/Pos	T/Pos	Remark																																																																																																				
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Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

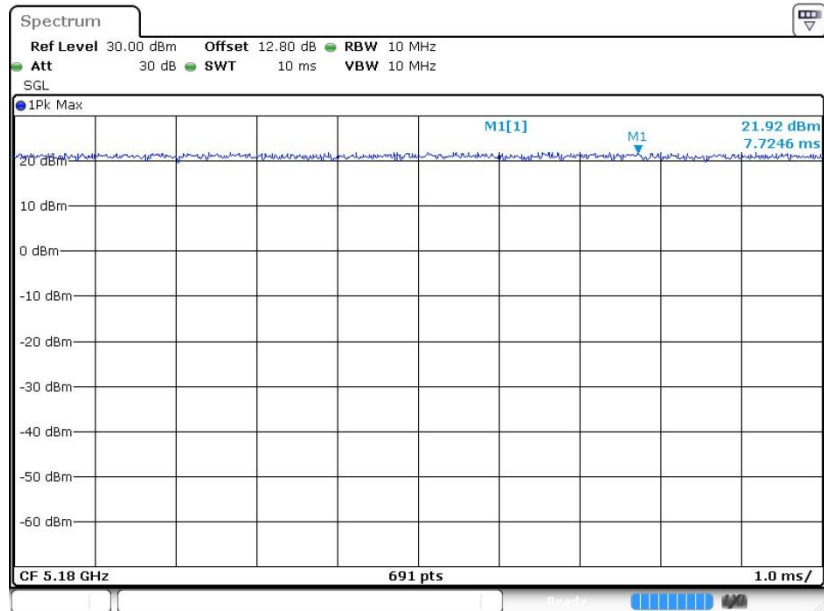
WIFI	5GHz WIFI																																																																																																																																																																	
ANT	802.11ac VHT80 LF																																																																																																																																																																	
0+1	Horizontal	Vertical																																																																																																																																																																
QP / Peak	Date: 1 Level (dBuV/m) Date: 2023.04.05 Site : 03CH03-SZ Condition : FCC CLASS-B 3m VULB9168-01001 HORIZONTAL Project : 2N2209-01 Mode : Mode 44 IMEI : 6082M0033087000K Plane : Y with Accessories MCS9 power setting 18 <table><tr><th>Peak</th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>192.75</td><td>21.43</td><td>-22.87</td><td>43.50</td><td>40.11</td><td>15.30</td><td>1.23</td><td>35.19</td><td>---</td></tr><tr><td>2 *</td><td>196.84</td><td>25.73</td><td>-17.77</td><td>43.50</td><td>42.46</td><td>16.51</td><td>1.80</td><td>35.18</td><td>--- Peak</td></tr><tr><td>3</td><td>328.03</td><td>26.73</td><td>-16.77</td><td>46.00</td><td>38.97</td><td>20.23</td><td>1.43</td><td>34.98</td><td>---</td></tr><tr><td>4</td><td>532.46</td><td>23.52</td><td>-22.48</td><td>46.00</td><td>30.53</td><td>24.46</td><td>3.19</td><td>34.64</td><td>---</td></tr><tr><td>5</td><td>790.16</td><td>26.25</td><td>-19.75</td><td>46.00</td><td>29.31</td><td>27.56</td><td>3.61</td><td>34.43</td><td>---</td></tr><tr><td>6</td><td>974.78</td><td>29.79</td><td>-24.21</td><td>54.00</td><td>29.61</td><td>29.99</td><td>4.34</td><td>34.15</td><td>---</td></tr></table>	Peak	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg		1	192.75	21.43	-22.87	43.50	40.11	15.30	1.23	35.19	---	2 *	196.84	25.73	-17.77	43.50	42.46	16.51	1.80	35.18	--- Peak	3	328.03	26.73	-16.77	46.00	38.97	20.23	1.43	34.98	---	4	532.46	23.52	-22.48	46.00	30.53	24.46	3.19	34.64	---	5	790.16	26.25	-19.75	46.00	29.31	27.56	3.61	34.43	---	6	974.78	29.79	-24.21	54.00	29.61	29.99	4.34	34.15	---	Date: 2 Level (dBuV/m) Date: 2023.04.05 Site : 03CH03-SZ Condition : FCC CLASS-B 3m VULB9168-01001 VERTICAL Project : 2N2209-01 Mode : Mode 44 IMEI : 6082M0033087000K Plane : Y with Accessories MCS9 power setting 18 <table><tr><th>Peak</th><th>Freq</th><th>Level</th><th>Limit</th><th>Line</th><th>Level Factor</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>192.75</td><td>27.80</td><td>-12.92</td><td>46.00</td><td>42.89</td><td>19.38</td><td>0.63</td><td>35.88</td><td>---</td></tr><tr><td>2</td><td>196.84</td><td>27.57</td><td>-13.15</td><td>43.50</td><td>44.30</td><td>16.51</td><td>1.80</td><td>35.18</td><td>---</td></tr><tr><td>3</td><td>328.03</td><td>23.87</td><td>-22.13</td><td>46.00</td><td>35.67</td><td>28.63</td><td>2.47</td><td>34.98</td><td>---</td></tr><tr><td>4</td><td>532.75</td><td>27.88</td><td>-18.92</td><td>46.00</td><td>32.60</td><td>25.57</td><td>3.44</td><td>34.53</td><td>---</td></tr><tr><td>5</td><td>792.42</td><td>27.90</td><td>-18.10</td><td>46.00</td><td>30.54</td><td>28.15</td><td>3.93</td><td>34.32</td><td>---</td></tr><tr><td>6</td><td>980.56</td><td>28.84</td><td>-20.16</td><td>54.00</td><td>28.68</td><td>28.13</td><td>4.35</td><td>34.12</td><td>---</td></tr></table>	Peak	Freq	Level	Limit	Line	Level Factor	Loss Factor	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dB	dB	cm	deg		1	192.75	27.80	-12.92	46.00	42.89	19.38	0.63	35.88	---	2	196.84	27.57	-13.15	43.50	44.30	16.51	1.80	35.18	---	3	328.03	23.87	-22.13	46.00	35.67	28.63	2.47	34.98	---	4	532.75	27.88	-18.92	46.00	32.60	25.57	3.44	34.53	---	5	792.42	27.90	-18.10	46.00	30.54	28.15	3.93	34.32	---	6	980.56	28.84	-20.16	54.00	28.68	28.13	4.35	34.12	---
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Appendix E. Duty Cycle Plots

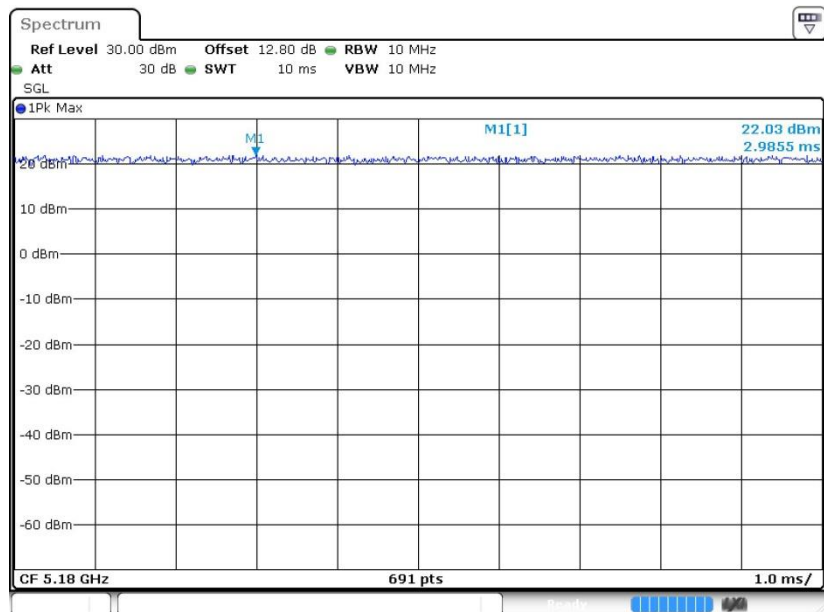
Antenna	Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
0+1	802.11a	100	-	-	10Hz
0+1	802.11n HT20	100	-	-	10Hz
0+1	802.11n HT40	100	-	-	10Hz
0+1	802.11ac VHT80	100	-	-	10Hz



802.11a

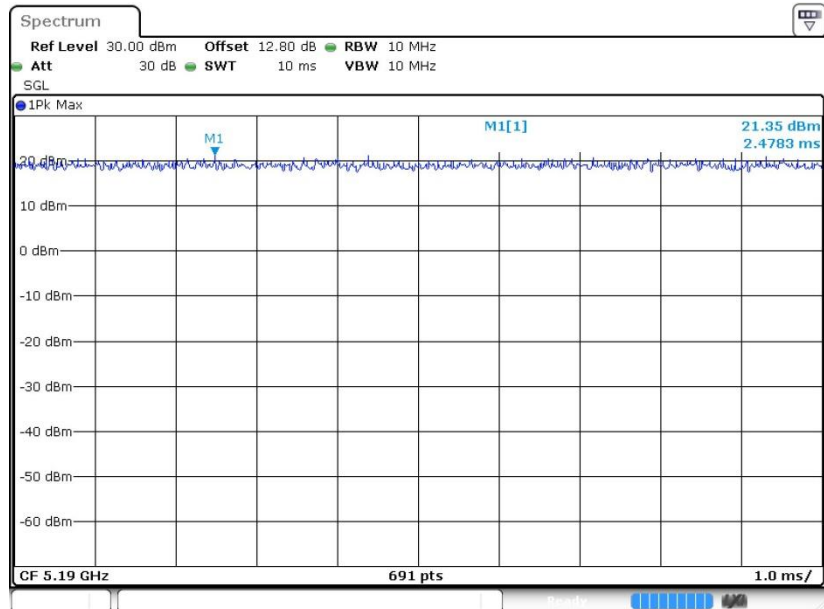


802.11n HT20





802.11n HT40



802.11ac VHT80

