



Proiect No.: TM-2308000057P FCC ID: VPYLBEE6XX1UR Page: 1 / 25 Report No.: TMWK2308002692KR IC: 772C-LBEE6XX1UR Rev.: 00

RADIO TEST REPORT FCC 47 CFR PART 15 SUBPART E **INDUSTRY CANADA RSS-247**

Test Standard FCC Part 15.407

RSS-247 issue 2 and RSS-GEN issue 5

Brand name muRata

Murata maufacturing co., ltd. **Applicant**

Product name Communication module

LBEE6XX1UR Model No.

Test Result Pass

Determination of compliance is based on the results of Statements of Conformity the compliance measurement, not taking into account

measurement instrumentation uncertainty.

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc.(Wugu Laboratory)

Approved by:

Shawn Wu Supervisor

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製

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Page: 2 / 25 Rev.: 00

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	September 22, 2023	Initial Issue	ALL	Allison Chen



Page: 3 / 25 Rev.: 00

Table of contents

1.	GENERAL INFORMATION	4
1.1	EUT INFORMATION	4
1.2	EUT CHANNEL INFORMATION	5
1.3	ANTENNA INFORMATION	6
1.4	MEASUREMENT UNCERTAINTY	7
1.5	FACILITIES AND TEST LOCATION	8
1.6	INSTRUMENT CALIBRATION	9
1.7	SUPPORT AND EUT ACCESSORIES EQUIPMENT	. 10
1.8	TEST METHODOLOGY AND APPLIED STANDARDS	. 10
2.	TEST SUMMARY	. 11
3.	DESCRIPTION OF TEST MODES	. 12
3.1	THE WORST MODE OF OPERATING CONDITION	. 12
4.	DYNAMIC FREQUENCY SELECTION	. 13
4.1	TEST LIMIT	. 13
4.2	TEST PROCEDURE	. 17
4.3	TEST SETUP	. 21
ADDENI	NY 1 - PHOTOGRAPHS OF FUT	



Page: 4 / 25 Rev.: 00

1. GENERAL INFORMATION

1.1 EUT INFORMATION

Applicant	Murata maufacturing co., ltd. 1-10-1, Higashikotari, Nagaokakyou-shi, Kyoto 617-8555 Japan			
Manufacturer	Murata maufacturing co., ltd. 1-10-1, Higashikotari, Nagaokakyou-shi, Kyoto 617-8555 Japan			
Equipment	Communication module			
Model No.	LBEE6XX1UR			
Model Discrepancy	N/A			
Trade Name	muRata			
Received Date	August 7, 2023			
Date of Test	August 31, 2023			
Power Supply	Powered from power supply. (DC 3.3V)			
HW Version	1.0			
SW Version	1.0			

- 1. For more details, please refer to the User's manual of the EUT.
- 2. Disclaimer: Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.



Page: 5 / 25 Rev.: 00

1.2 EUT CHANNEL INFORMATION

Frequency Range	UNII-2a IEEE 802.11a IEEE 802.11n HT20 IEEE 802.11ac VHT20 IEEE 802.11n HT40 IEEE 802.11ac VHT40 IEEE 802.11ac VHT80 UNII-2c IEEE 802.11a IEEE 802.11a IEEE 802.11n HT20 IEEE 802.11ac VHT20 IEEE 802.11ac VHT20 IEEE 802.11ac VHT40 IEEE 802.11ac VHT40 IEEE 802.11ac VHT40	5260 ~ 5320 MHz 5260 ~ 5320 MHz 5260 ~ 5320 MHz 5270 ~ 5310 MHz 5270 ~ 5310 MHz 5290 MHz 5500 ~ 5720 MHz 5500 ~ 5720 MHz 5500 ~ 5720 MHz 5500 ~ 5710 MHz 5510 ~ 5710 MHz 5510 ~ 5710 MHz 5530 ~ 5690 MHz
Modulation Type	1. IEEE 802.11a mode: OFE 2. IEEE 802.11n HT20 mode 3. IEEE 802.11n HT40 mode 4. IEEE 802.11ac VHT20 me 5. IEEE 802.11ac VHT40 me 6. IEEE 802.11ac VHT80 me	e: OFDM e: OFDM ode: OFDM ode: OFDM

- 1. Refer as ANSI C63.10: 2013 clause 5.6.1 Table 4 for test channels
- 2. For Canada the EUT Frequency Range 5600~5650MHz will be disabled.



Page: 6 / 25 Rev.: 00

Number of frequencies to be tested				
Frequency range in Number of Location in frequency which device operates frequencies range of operation				
☐ 1 MHz or less	1	Middle		
☐ 1 MHz to 10 MHz	IHz to 10 MHz 2 1 near			
	3	1 near top, 1 near middle, and 1 near bottom		

1.3 ANTENNA INFORMATION

Antenna Type	☐ PIFA ☐ PCB ☐ Dipole ☐ Coils ☒ Chip
Antenna Gain	Gain: 1.7 dBi
Antenna Trade / Model	INPAQ TECHNOLOGY / VGAP-CLB-AS-A1
Antenna connector	N/A

Notes:

^{1.} The antenna(s) of the EUT are permanently attached and there are no provisions for connection to an external antenna. So the EUT complies with the requirements of $\S15.203$.



Page: 7 / 25
Report No.: TMWK2308002692KR Rev.: 00

1.4 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
Channel Bandwidth	± 2.7 %
RF output power (Spectrum)	± 2.440 dB
Power Spectral density	± 2.739 dB

^{1.} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

^{2.} ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.



Page: 8 / 25
Report No.: TMWK2308002692KR Rev.: 00

1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City, Taiwan.

No. 12, Ln. 116, Wugong 3rd Rd., Wugu Dist., New Taipei City, Taiwan 24803

CAB identifier: TW1309

Test site	Test Engineer	Remark
DFS	Jerry Chang	-

Remark: The lab has been recognized as the FCC accredited lab. under the KDB 974614 D01 and is listed in the FCC pubic Access Link (PAL) database, FCC Registration No.:444940, the FCC Designation No.:TW1309



Page: 9 / 25 Rev.: 00

1.6 INSTRUMENT CALIBRATION

	DFS Test					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
EXA Signal Analyzer	Keysight	N9010A	MY54200716	2022-10-13	2023-10-12	
Attenuator	E-INSTRUMENT	EPA-600H	EC1400050	2023-06-13	2024-06-12	
Vector Signal Generator	KEYSIGHT	N5182B/N5182BX07	MY61252828/ MY59362552	2023-02-01	2024-01-31	
Power Divider	Marvelous Microwave	MVE8586	16011202	2023-06-16	2024-06-15	
Power Divider	Marvelous Microwave	MVE8586	16011201	2023-06-16	2024-06-15	
Power Divider	Marvelous Microwave	MVE8586	16011206	2023-07-04	2024-07-03	
Power Divider	Solvang Technology	STI08-0015	008	2023-07-11	2024-07-10	
Cable	Woken	SUMITOMO	13	2023-03-02	2024-03-01	
Cable	Woken	SUMITOMO	12	2023-03-02	2024-03-01	
Cable	Woken	SUMITOMO	11	2023-03-02	2024-03-01	
Cable	Woken	SUMITOMO	10	2023-03-02	2024-03-01	
Cable	Woken	SUMITOMO	9	2023-03-02	2024-03-01	
Cable	Woken	SUMITOMO	7	2023-03-02	2024-03-01	
Cable	Woken	SUMITOMO	6	2023-03-02	2024-03-01	
Cable	Woken	SUMITOMO	5	2023-03-02	2024-03-01	
Cable Woken		SUMITOMO	4	2023-03-02	2024-03-01	
Software	GPIBShot,DFS Test Software,DFS Radar Profiles 2022 Update 1.0					

- 1. Each piece of equipment is scheduled for calibration once a year.
- 2. N.C.R. = No Calibration Required.



Page: 10 / 25 Report No.: TMWK2308002692KR Rev.: 00

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

	EUT Accessories Equipment					
No.	Device	Brand	Series No.	FCC ID	IC	
	N/A					

	Support Equipment						
No. Device Brand Model Series No. FCC ID						IC	
1	NB	Lenovo	TP00075A	N/A	N/A	N/A	
2	AP	ASUS	RT-AX88U	N/A	MSQ-RTAXHP 00	3568A-RTAXH P00	

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 2, FCC Part 15.407, KDB 789033 D02 and KDB 905462 D02.



Page: 11 / 25 Rev.: 00

Report No.: TMWK2308002692KR

2. TEST SUMMARY

	FCC Standard Sec.	IC Standard Sec.	ec. Chapter Test Item		Result
	15.203	RSS-Gen (6.8)	1.3	Antenna Requirement	Pass
ĺ	15.407(h)	RSS-247(6.3)	4.1	Dynamic Frequency Selection	Pass



Page: 12 / 25
Report No.: TMWK2308002692KR Rev.: 00

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

Operation mode	1. IEEE 802.11a mode: 6Mbps 2. IEEE 802.11n HT20 mode: MCS0 3. IEEE 802.11n HT40 mode: MCS0 4. IEEE 802.11ac VHT20 mode: MCS0 5. IEEE 802.11ac VHT40 mode: MCS0 6. IEEE 802.11ac VHT80 mode: MCS0				
		Mode	Frequency Range (MHz)		
		IEEE 802.11a	5260, 5300, 5320		
		IEEE 802.11n HT20	5260, 5300, 5320		
	U-NII-2a	IEEE 802.11n HT40	5270, 5310		
	U-INII-Za	IEEE 802.11ac VHT20	5260, 5300, 5320		
		IEEE 802.11ac VHT40	5270, 5310		
Operating Frequency Range		IEEE 802.11ac VHT80	5290		
- p - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		IEEE 802.11a	5500, 5580, 5700, 5720		
		IEEE 802.11n HT20	5500, 5580, 5700, 5720		
	LI NIII Oa	IEEE 802.11n HT40	5510, 5550, 5670, 5710		
	U-NII-2c	IEEE 802.11ac VHT20	5500, 5580, 5700, 5720		
		IEEE 802.11ac VHT40	5510, 5550, 5670, 5710		
		IEEE 802.11ac VHT80	5530, 5610, 5690		

^{1.} EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.



Page: 13 / 25 Report No.: TMWK2308002692KR Rev.: 00

4. DYNAMIC FREQUENCY SELECTION

4.1 TEST LIMIT

FCC according to §15.407 (h), KDB 905462 D02 "compliance measurement procedures for unlicensed-national information infrastructure devices operating in the 5250-5350 MHz and 5470-5725 MHz bands incorporating dynamic frequency selection". and KDB 905462 D03 " U-NII client devices without radar detection capability. IC according RSS-247 section 6.3, and it harmonized with FCC Part 15 DFS rules. The EIRP refer section 4.3 output power measurement in this report.

Table 1: Applicability of DFS requirements prior to use of a channel

Poquiroment	Operational Mode				
Requirement	Master	Client (without radar detection)	Client(with radar detection)		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Table 2: Applicability of DFS requirements during normal operation

rable 217 (ppileability 01 21	Operational Mode			
Requirement	Master Device or Client with Radar Detection	Client Without Radar Detection		
DFS Detection Threshold	Yes	Not required		
Channel Closing Transmission Time	Yes	Yes		
Channel Move Time	Yes	Yes		
U-NII Detection Bandwidth	Yes	Not required		

Additional requirements for devices with multiple bandwidth mods	Master Device or Client with Radar Detection	Client Without Radar Detection	
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required	
Channel Move Time and Channel Closing	Test using widest BW mode		
Transmission Time	available	available for the link	
All other tests	Any single BW mode	Not required	

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.



Page: 14 / 25 Report No.: TMWK2308002692KR Rev.: 00

Table 3: Interference Threshold values, Master or Client incorporating In-Service

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

Table 4: DFS Response requirement values

1400 11 21 0 1100	
Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.



Page: 15 / 25

Rev.: 00

Table 5 – Short Pulse Radar Test Waveforms									
Radar Type	Pulse Width (µsec)	PRI (µsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials				
0	1	1428	18	See Not	e 1				
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	Roundup $ \left\{ \left(\frac{1}{360} \right). \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right) \right\} $	60%	30				
2	1-5	150-230	23-29	60%	30				
3	6-10	200-500	16-18	60%	30				
4	11-20	200-500	12-16	60%	30				
Aggregate	e (Radar Types	s 1-4)		80%	120				

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.



Page: 16 / 25 Report No.: TMWK2308002692KR Rev.: 00

Table 6 - Long Pulse Radar Test Signal

Radar Type	Pulse Width (µsec)	Chirp Width (MHz)	PRI (µsec)	Number of Pulses per Burst	Number of Bursts	Minimum Percentage of Successful Detection	Minimum Number of Trials
5	50-100	5-20	1000-2000	1-3	8-20	80%	30

Table 7 – Frequency Hopping Radar Test Signal

Radar Type	Pulse Width (µsec)	PRI (µsec)	Pulses per Hop	Hopping Rate (kHz)	Hopping Sequence Length (msec)	Minimum Percentage of Successful Detection	Minimum Number of Trials
6	1	333	9	0.333	300	70%	30



Page: 17 / 25
Report No.: TMWK2308002692KR Rev.: 00

4.2 TEST PROCEDURE

Overview Of EUT With Respect To §15.407 (H) Requirements

The firmware installed in the EUT during testing was:

Firmware Rev: V13.10.246.261

The EUT operates over the 5250-5350 MHz range as a Client Device that does not have radar detection capability.

The EUT uses one transmitter connected to two 50-ohm coaxial antenna ports via a diversity switch. Only one antenna port is connected to the test system since the EUT has one antenna only.

The Slave device associated with the EUT during these tests does not have radar detection capability.

WLAN traffic is generated by streaming the video file TestFile.mp2 "6 ½ Magic Hours" from the Master to the Slave in full motion video mode using the media player with the V2.61 Codec package.

The EUT utilizes the 802.11AC architecture, with a nominal channel bandwidth of 80 MHz.

The rated output power of the Master unit is > 23dBm (EIRP). Therefore the required interference threshold level is -64 dBm. After correction for antenna gain and procedural adjustments, the required conducted threshold at the antenna port is -64 dBm. The calibrated conducted DFS Detection Threshold level is set to -64 dBm. The tested level is lower than the required level hence it provides margin to the limit.

Manufacturer's Statement Regarding Uniform Channel Spreading

The end product implements an automatic channel selection feature at startup such that operation commences on channels distributed across the entire set of allowed 5GHz channels. This feature will ensure uniform spreading is achieved while avoiding non-allowed channels due to prior radar events.



Page: 18 / 25

Report No.: TMWK2308002692KR Rev.: 00

TEST AND MEASUREMENT SYSTEM

System Overview

The measurement system is based on a conducted test method.

The short pulse and long pulse signal generating system utilizes the NTIA software. The Vector Signal Generator has been validated by the NTIA. The hopping signal generating system utilizes the CCS simulated hopping method and system, which has been validated by the DoD, FCC and NTIA. The software selects waveform parameters from within the bounds of the signal type on a random basis using uniform distribution. The short pulse types 2, 3 and 4, and the long pulse type 5 parameters are randomized at run-time.

The hopping type 6 pulse parameters are fixed while the hopping sequence is based on the August 2005 NTIA Hopping Frequency List. The initial starting point randomized at run-time and each subsequent starting point is incremented by 475. Each frequency in the 100-length segment is compared to the boundaries of the EUT Detection Bandwidth and the software creates a hopping burst pattern in accordance with Section 7.4.1.3 Method #2 Simulated Frequency Hopping Radar Waveform Generating Subsystem of FCC 06-96 APPENDIX. The frequency of the signal generator is incremented in 1 MHz steps from FL to FH for each successive trial. This incremental sequence is repeated as required to generate a minimum of 30 total trials and to maintain a uniform frequency distribution over the entire Detection Bandwidth.

The signal monitoring equipment consists of a spectrum analyzer set to display 8001 bins on the horizontal axis. The time-domain resolution is 2 msec / bin with a 16 second sweep time, meeting the 10 second short pulse reporting criteria. The aggregate ON time is calculated by multiplying the number of bins above a threshold during a particular observation period by the dwell time per bin, with the analyzer set to peak detection and max hold. The time-domain resolution is 3 msec / bin with a 24 second sweep time, meeting the 22 second long pulse reporting criteria and allowing a minimum of 10 seconds after the end of the long pulse waveform.

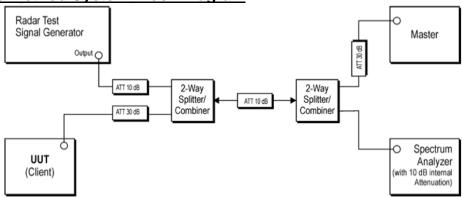
Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), 50 ohm termination would be removed from the splitter so that connection can be established between splitter and the Master and/or Slave devices.



Page: 19 / 25

Report No.: TMWK2308002692KR Rev.: 00

Conducted Method System Block Diagram



System Calibration

Connect the spectrum analyzer to the test system in place of the master device. Set the signal generator to CW mode. Adjust the amplitude of the signal generator to yield a measured level of –64 dBm on the spectrum analyzer.

Without changing any of the instrument settings, reconnect the spectrum analyzer to the Common port of the Spectrum Analyzer Combiner/Divider and connect a 50 ohm load to the Master Device port of the test system.

Measure the amplitude and calculate the difference from –64 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference. Confirm that the signal is displayed at –62 dBm. Readjust the RBW and VBW to 3 MHz, set the span to 10 MHz, and confirm that the signal is still displayed at –64 dBm.

The spectrum analyzer displays the level of the signal generator as received at the antenna ports of the Master Device. The interference detection threshold may be varied from the calibrated value of –64 dBm and the spectrum analyzer will still indicate the level as received by the Master Device.

Set the signal generator to produce a radar waveform, trigger a burst manually and measure the level on the spectrum analyzer. Readjust the amplitude of the signal generator as required so that the peak level of the waveform is at a displayed level equal to the required or desired interference detection threshold. Separate signal generator amplitude settings are determined as required for each radar type.

<u>Adjustment Of Displayed Traffic Level</u>

Establish a link between the Master and Slave, adjusting the Link Step Attenuator as needed to provide a suitable received level at the Master and Slave devices. Stream the video test file to generate WLAN traffic. Confirm that the WLAN traffic level, as displayed on the spectrum analyzer, is at lower amplitude than the radar detection threshold. Confirm that the displayed traffic is from the Master Device. For Master Device testing confirm that the displayed traffic does not include Slave Device traffic. For Slave Device testing confirm that the displayed traffic does not include Master Device traffic.

If a different setting of the Master Step Attenuator is required to meet the above conditions, perform a new System Calibration for the new Master Step Attenuator setting.



Page: 20 / 25 Report No.: TMWK2308002692KR Rev.: 00

Channel Loading

System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

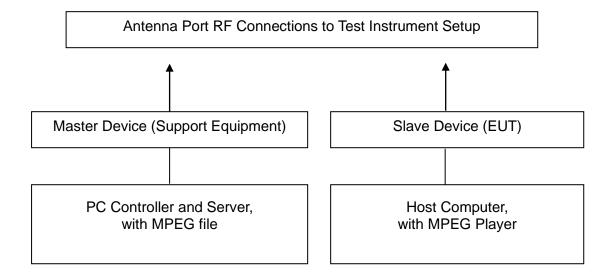
- a) The data file must be of a type that is typical for the device (i.e., MPEG-2, MPEG-4, WAV, MP3, MP4, AVI, etc.) and must generally be transmitting in a streaming mode.
- b) Software to ping the client is permitted to simulate data transfer but must have random ping intervals.
- c) Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time). This can be done with any appropriate channel BW and modulation type.
- d) Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.



Page: 21 / 25

Rev.: 00

4.3 TEST SETUP





Report No.:

Page: 22 / 25

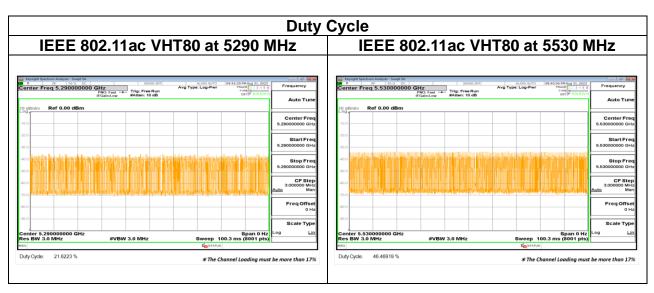
Rev.: 00

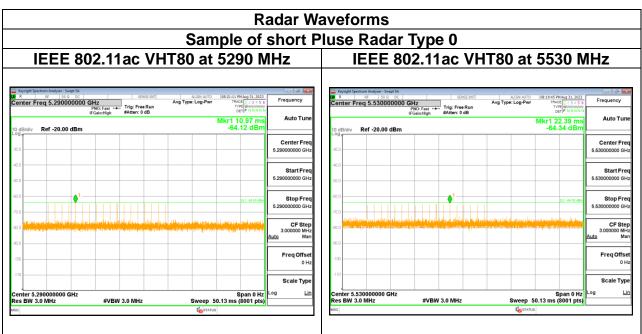
4.3.1 Test Result

TMWK2308002692KR

Temperature: 25.6° C **Test date:** August 31, 2023

Humidity: 51% RH **Tested by:** Jerry Chang







Page: 23 / 25

Report No.: TMWK2308002692KR Rev.: 00

TEST CHANNEL AND METHOD

All tests were performed at a channel center frequency of 5530 MHz utilizing a conducted test method.

CHANNEL MOVE TIME AND CHANNEL CLOSING TRANSMISSION TIME GENERAL REPORTING NOTES

The reference marker is set at the end of last radar pulse.

The delta marker is set at the end of the last WLAN transmission following the radar pulse. This delta is the channel move time.

The aggregate channel closing transmission time is calculated as follows:

Aggregate Transmission Time =

(Number of analyzer bins showing transmission) * (dwell time per bin)

The observation period over which the aggregate time is calculated

Begins at (Reference Marker + 200 msec) and

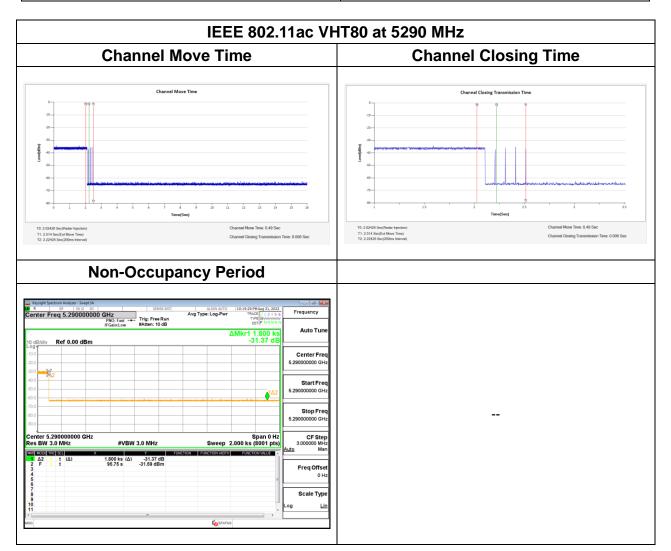
Ends no earlier than (Reference Marker + 10 sec).



Page: 24 / 25 Rev.: 00

Test Result of Channel closing Transmission Time and Channel Move Time

rest result of Charmer closing Transmission Time and Charmer Move Time									
Channel Shutdown Result									
Detection	Detection Threshold Level (dBm)				-64				
Modulation Mode	Fred (MHz)		Channel Closing Transmission Time(ms) 200ms~10sec		Channel Move Time(s)				
VHT80	5290	Type 0	6		0.490				
VHT80	VHT80 5530 Type 0		8		0.414				
	Limit	60	ms	10	sec				
	Result		Com	plied	•				





Page: 25 / 25 Rev.: 00



- End of Test Report -