

FCC Part 15, Subpart E Test Report

FCC ID: 2AR2STAM8905M2

Applicant: MMD Hong Kong Holding Limited

Address: Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street,
Kwun Tong, Kowloon, Hong Kong

Manufacturer: MMD Hong Kong Holding Limited

Address: Units 1208-11, 12th Floor, C-Bons International Center, 108 Wai Yip Street,
Kwun Tong, Kowloon, Hong Kong

Product(s): Micro Music System

Brand(s): PHILIPS or 

Test Model(s): TAM8905M2/37

Series Model(s): TAM8905M2, TAM8905M2/05, TAM8905M2/10, TAM8905M2/yy (yy=00-99
or nil, for country code)

Test Date: Apr. 06, 2025 ~ Apr. 22, 2026

Issued Date: Apr. 23, 2026

Issued By: Hwa-Hsing (Dongguan) Testing Co., Ltd.

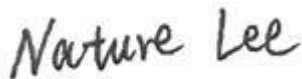
Address: No.101, Building N1, Yuyuan 2 Road, Yuyuan Industrial Park, HuangJiang
Town, Dongguan City, People's Republic of China

Test Firm Registration No.: 915896

Standards: FCC CFR 47 Part 15, Subpart E
FCC 14-30; FCC public notices 06-96
KDB 905462 D02; KDB 905462 D03

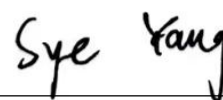
The above equipment has been tested by **Hwa-Hsing (Dongguan) Testing Co., Ltd.**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :



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Reviewed by :



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Approved by :



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Test Report No.: 26040905-RF-US-05

Release Control Record

Issue No.	Description	Date Issued
26040905-RF-US-05	Original Release	Apr. 23, 2026

1. Summary of Test Results

FCC CFR 47 Part 15, Subpart E FCC 06-96 KDB 905462 D02 KDB 905462 D03			
FCC Clause	Test Item	Result	Remarks
15.407	DFS Detection Threshold	Not Applicable	-
15.407	Channel Availability Check Time	Not Applicable	-
15.407	Channel Move Time	Pass	Meet the requirement
15.407	Channel Closing Transmission Time	Pass	Meet the requirement
15.407	Non- Occupancy Period	Pass	Meet the requirement
15.407	Uniform Spreading	Not Applicable	-
15.407	U-NII Detection Bandwidth	Not Applicable	-
15.407	Non-associated test	Pass	Meet the requirement
15.407	Non-Co-Channel test	Pass	Meet the requirement
NOTE: The UUT client is a slave device without radar detection.			

If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See the applicability of DFS requirements for each of the operational modes.

Applicability of DFS requirements prior to use a channel			
Requirement	Master	Client without radar detection	Client with radar detection
Non-Occupancy Period	✓	✓	✓
DFS Detection Threshold	✓	Not required	✓
Channel Availability Check Time	✓	Not required	Not required
Uniform Spreading	✓	Not required	Not required
U-NII Detection Bandwidth	✓	Not required	✓

Applicability of DFS requirements during normal operation			
Requirement	Master	Client without radar detection	Client with radar detection
DFS Detection Threshold	✓	Not required	✓
Channel Closing Transmission Time	✓	✓	✓
Channel Move Time	✓	✓	✓
U-NII Detection Bandwidth	✓	Not required	✓
DFS Detection Threshold	✓	Not required	✓

2. General Information

2.1 General Description of EUT

Product(s)	Micro Music System
Test Model(s)	TAM8905M2/37
Sample No.	HX2604090501, HX2604090502
Series Model(s)	TAM8905M2, TAM8905M2/05, TAM8905M2/10, TAM8905M2/yy (yy=00-99 or nil, for country code)
Status of EUT	Engineering Prototype
Power Supply Rating	AC 100-240V, 50/60HZ, 55W
MODULATION TYPE	256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM 1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDMA
Transfer Rate	802.11a: 54/48/36/24/18/12/9/6 Mbps 802.11n: up to 72.2 Mbps 802.11ac: up to 86.7 Mbps 802.11ax: up to 143.4 Mbps
Operating Frequency	5180~5240MHz, 5260~5320MHz 5500~5700MHz, 5745~5825MHz
Number of Channel	See the section 2.2
Maximum Output Power	5150 ~ 5250MHz: 10.95dBm 5250 ~ 5350MHz: 13.54dBm 5470 ~ 5725MHz: 13.73dBm 5725 ~ 5850MHz: 14.73dBm
Antenna Type	FPC Antenna
Max. Antenna Gain	5150 ~ 5250MHz: 6.33dBi 5250 ~ 5350MHz: 6.20dBi 5470 ~ 5725MHz: 5.37dBi 5725 ~ 5850MHz: 4.61dBi
Antenna Connector	I-PEX
Accessory Device	N/A
Data Cable Supplied	AC cable: 140cm

Note:

1. Please refer to the EUT photo document (Reference No.: 26040905-01&02) for detailed product photo.
2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.
3. Hwa-Hsing (Dongguan) Testing Co., Ltd. is not responsible for the accuracy of the information provided by the manufacturer.
4. EUT includes 3 chips: RF805A(FM, DAB), BT8961D(BT, BLE), SC6137E(Wi-Fi 2.4GHz, WiFi 5GHz).
5. Model differences: All models are identical except model name and color for marketing purpose.
6. The EUT incorporates SISO function, provides 1 completed Transmit and 1 Receive Chain.

Support mode	Transmit and receive mode	Transmit and receive chain
802.11a	SISO	1TX/1RX
802.11n HT20	SISO	1TX/1RX
802.11ac VHT20	SISO	1TX/1RX
802.11ax HE20	SISO	1TX/1RX

2.2 Description of Test Channels**For 5150 ~ 5350MHz**

8 channels are provided for 802.11a, 802.11n 20MHz, 802.11ac (20MHz), 802.11ax (20MHz):

Channel	Freq. (MHz)	Channel	Freq. (MHz)
36	5180	52	5260
40	5200	56	5280
44	5220	60	5300
48	5240	64	5320

For 5470 ~ 5725MHz

11 channels are provided for 802.11a, 802.11n 20MHz, 802.11ac (20MHz), 802.11ax (20MHz):

Channel	Freq. (MHz)	Channel	Freq. (MHz)
100	5500	124	5620
104	5520	128	5640
108	5540	132	5660
112	5560	136	5680
116	5580	140	5700
120	5600	-	-

For 5725 ~ 5850MHz

5 channels are provided for 802.11a, 802.11n 20MHz, 802.11ac (20MHz), 802.11ax (20MHz):

Channel	Freq. (MHz)	Channel	Freq. (MHz)
149	5745	161	5805
153	5765	165	5825
157	5785	-	-

3. Description of DFS Test

3.1 Test limits and radar signal parameters

- DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value (See Note 1 and 2)
≥ 200 milliwatt	-64 dBm
< 200 milliwatt	-62 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.

- DFS Response Requirement Values

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	100% of the UNII transmission power bandwidth. See Note 3.

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the Short Pulse Radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse Radar Test Signal this instant is the end of the 12 second period defining the Radar Waveform.

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 1 is used and for each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

- Channel Loading

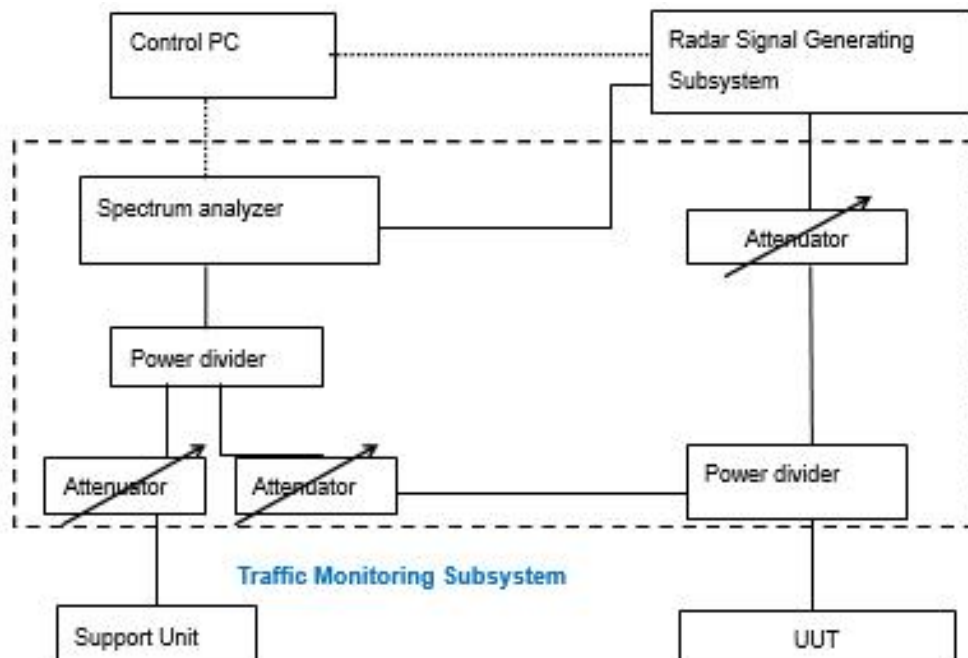
System testing will be performed with channel-loading using means appropriate to the data types that are used by the unlicensed device. The following requirements apply:

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.	N/A
b)	Software to ping the client is permitted to simulate data transfer but must have random ping intervals.	N/A
c)	Timing plots are required with calculations demonstrating a minimum channel loading of approximately 17% or greater.	Apply
d)	Unicast or Multicast protocols are preferable but other protocols may be used. The appropriate protocol used must be described in the test procedures.	N/A

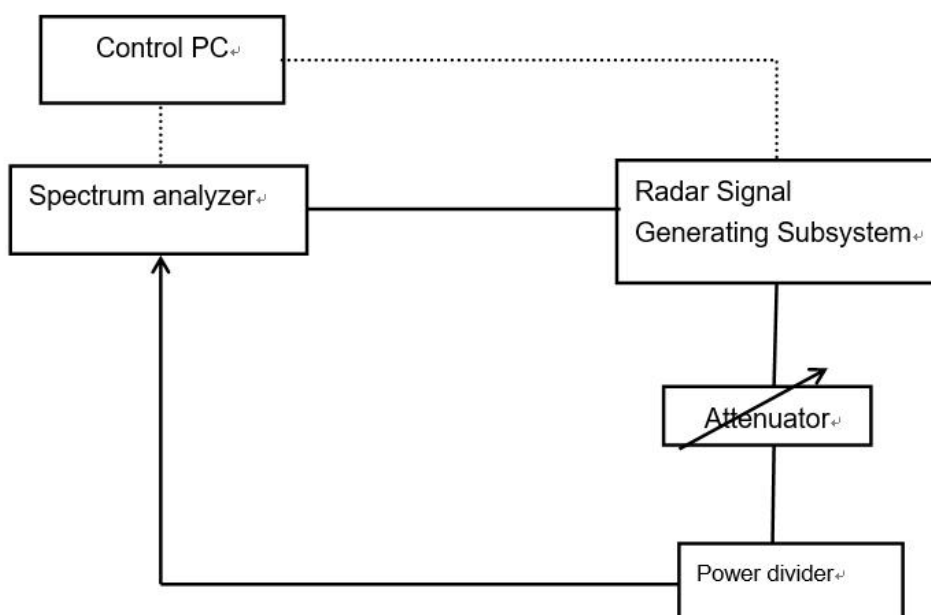
3.2 DFS measurement system

A complete DFS Measurement System consists of Radar signal generate system to generating the radar waveforms in Table 10, 11 and 12. The traffic monitoring system is specified to the type of unit under test (UUT).

Conducted setup configuration of DFS Measurement System



3.3 Calibration of DFS detection threshold level



3.4 Parameters of DFS test signals

- 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 Note 1	See Note 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 μs, with a minimum increment of 1 μs, excluding PRI values selected in Test A	$\text{Roundup} \left\{ \left(\frac{1}{360} \right) \cdot \left(\frac{19 \cdot 10^5}{\text{PRI}_{\mu\text{sec}}} \right) \right\}$	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 (Radar Types 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.					

- Long Pulse Radar Test Waveform

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

- Frequency Hopping Radar Test Waveform

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

3.5 Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum	Keysight	N9020A	MY51240612	2026-07-23
Power Meter 10Hz~18GHz	Tonscend	JS0806-2	188060126	2026-07-23
Spectrum Analyzer	Rohde&Schwarz	FSV-40N	101783	2026-07-23
Signal generator	Keysight	E4421	GB40051020	2026-05-18
Universal Switch Control Unit	Rohde&Schwarz	CMW500	12010002k50	2026-07-23
Humidity tester	Jingchuang	GSP-8A	CMA22B000592	2026-07-28
Test Software	Tonscend	JS0806-2	188060126	2026-07-23

Note:

1. The calibration interval of the above test instruments is 12 months.
2. The test was performed in RF Chamber.

3.6 Description of support units

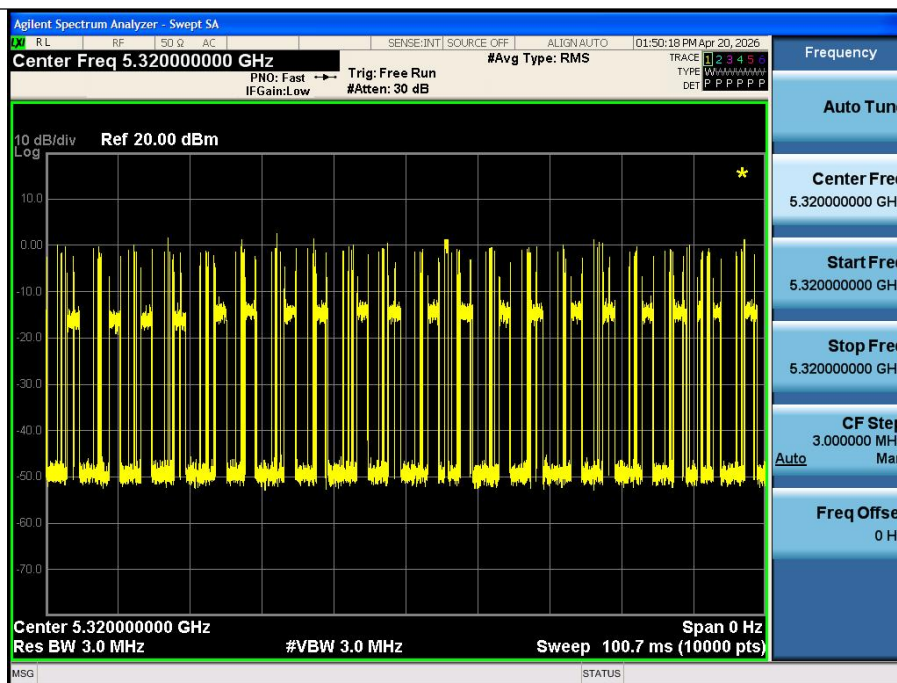
Product	Brand	Model name	FCC ID number	Maximum antenna Gain (dBi)	Max. Transmit Power
Wireless AP Router	ASUS	RT-AC1200	MSQ-RT1D00	4.40	<200mW

Note: This device was functioned as a ☒ Master ☐ Slave device during the DFS test.

4. Test Result of DFS

Channel Loading:

Timing plots are required with calculations demonstrating a minimum channel loading of approximately 35.01% or greater.

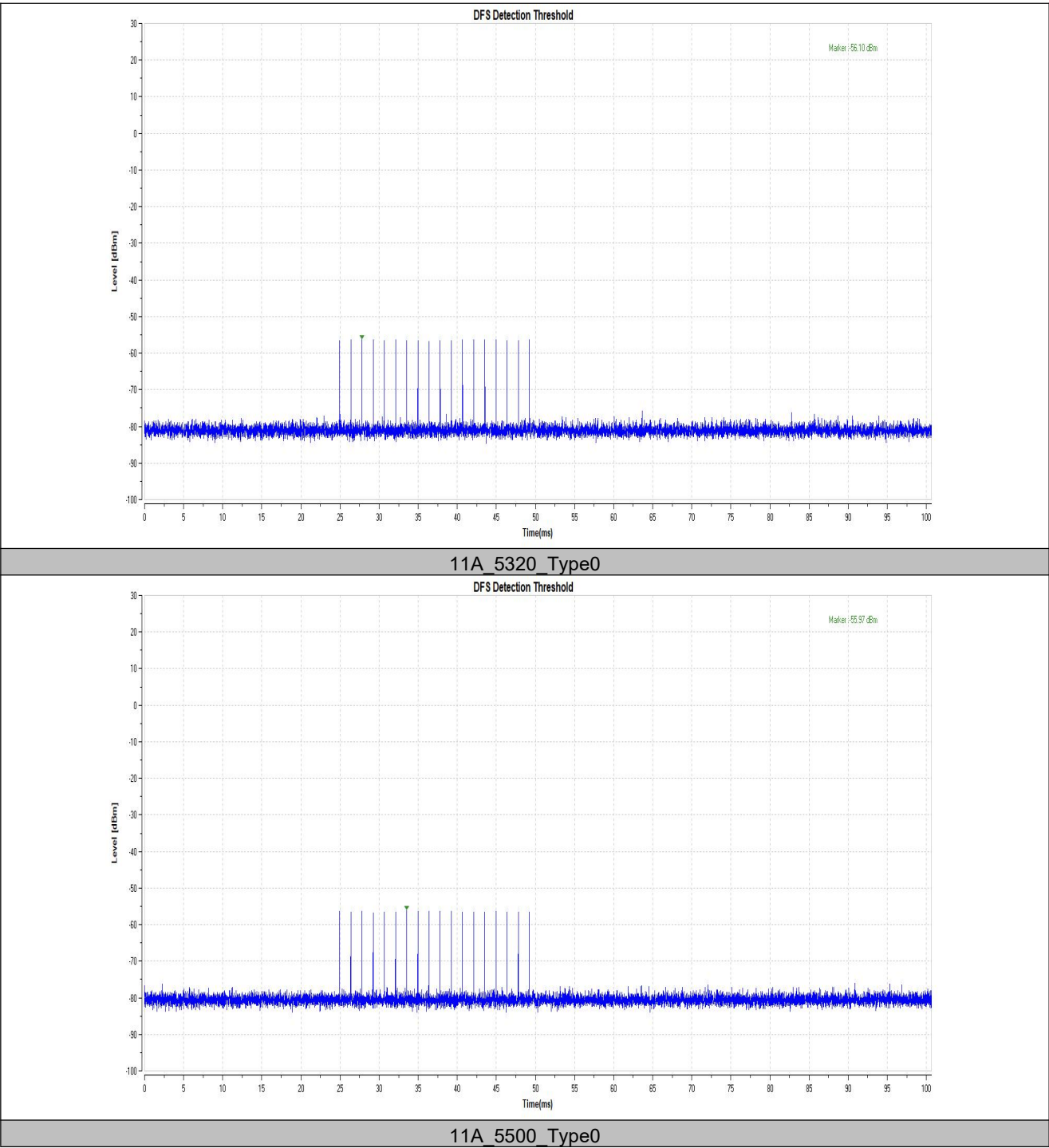


DFS detection threshold:

The Required detection threshold is -55.80dBm (= -62+6.20)dBm.

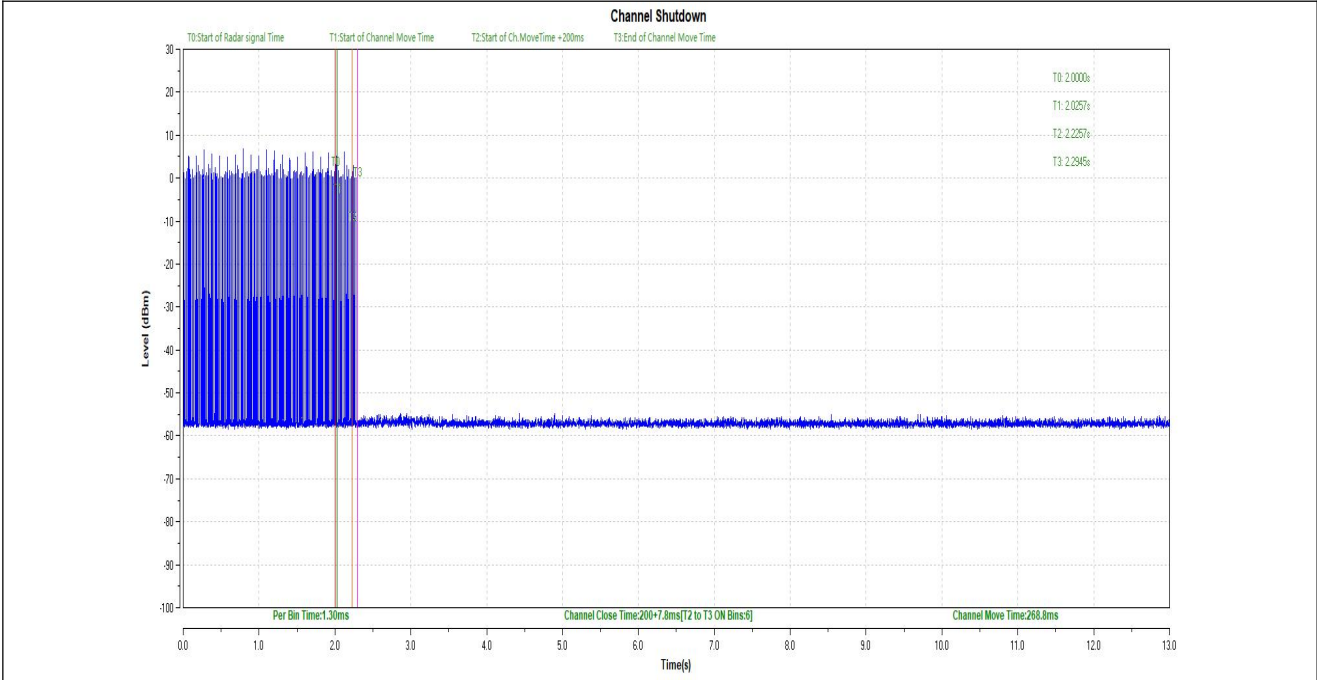
The conducted radar burst level is set to -55.80dBm.

TestMode	Channel	Radar Type	Result	Limit[dbm]	Verdict
11A	5320	Type0	-56.10	-55.80	PASS
	5500	Type0	-55.97	-55.80	PASS

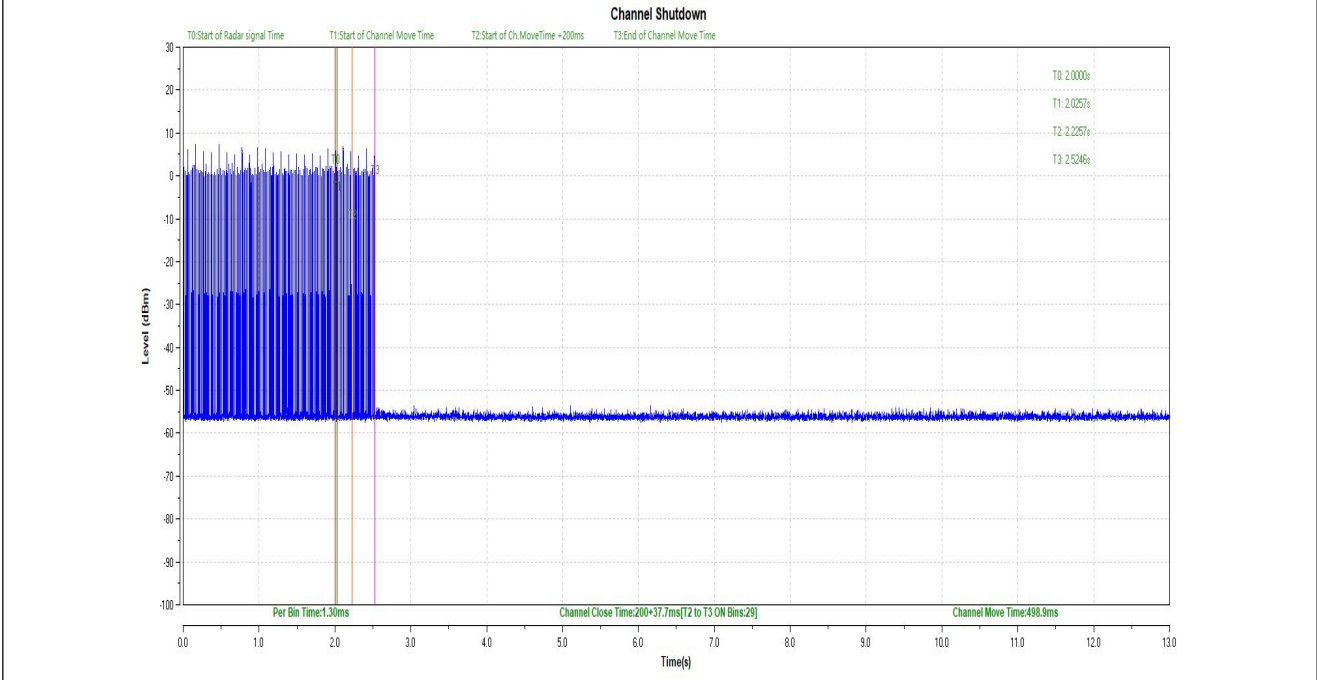


Channel Closing Transmission and Channel Move Time:

TestMode	Channel	CCT[ms]	Limit[ms]	CMT[ms]	Limit[ms]	Verdict
11A	5320	200+7.8	200+60	268.8	10000	PASS
	5500	200+37.7	200+60	498.9	10000	PASS



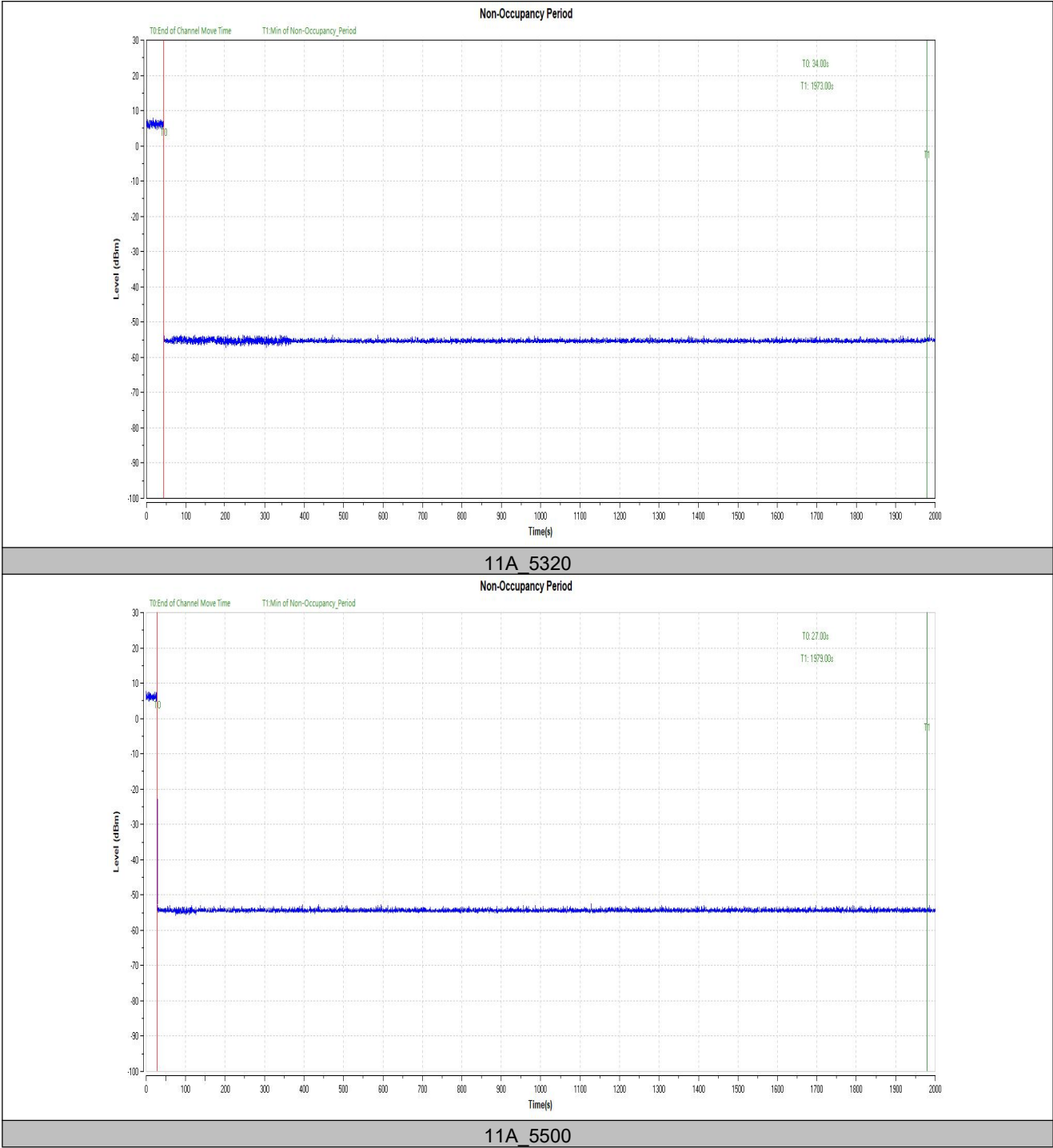
11A_5320



11A_5500

Non- occupancy period:

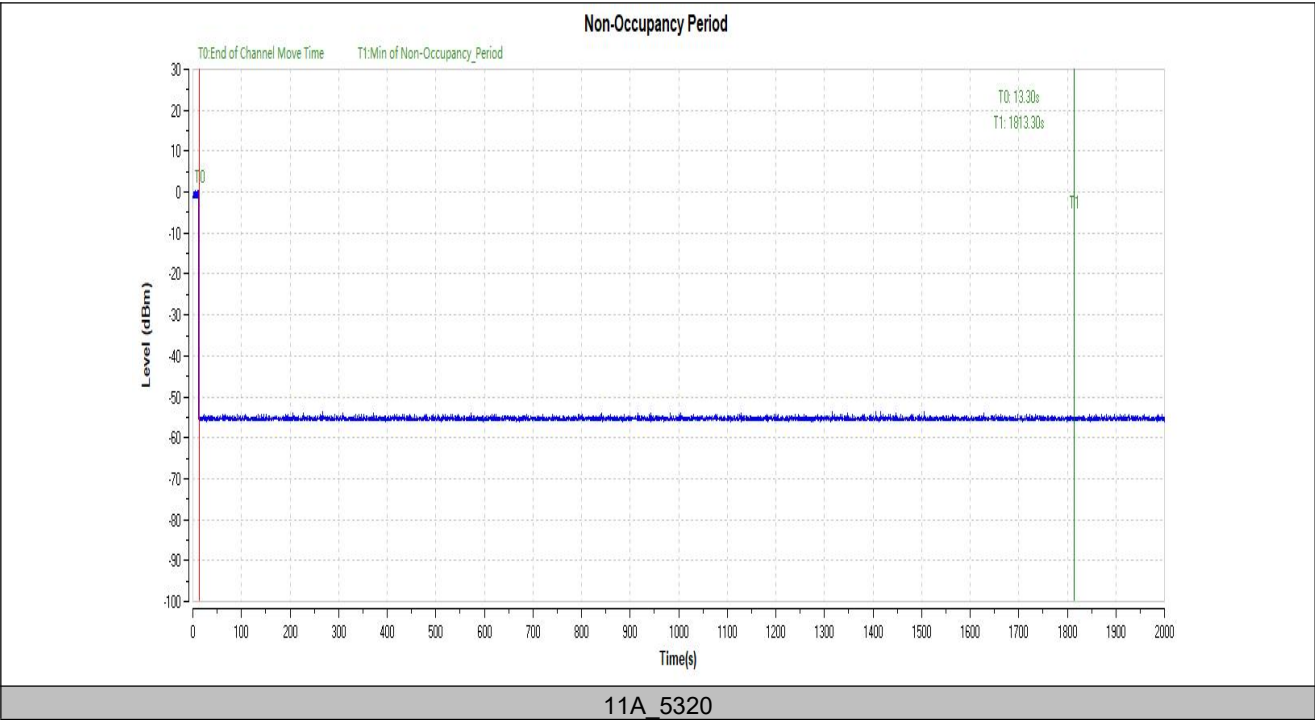
TestMode	Channel	Result	Limit[s]	Verdict
11A	5320	see test graph	≥1800	PASS
	5500	see test graph	≥1800	PASS



Non-associated test:

After the master off, during the 30 minutes observation time, The UUT did not make any transmissions in the DFS band after UUT power up.

TestMode	Channel	Result	Limit[s]	Verdict
11A	5320	see test graph	≥1800	PASS



Non- co-channel test

The UUT was investigated after radar was detected the channel and made sure no co-channel operation with radars.

5. Photographs of the test configuration

Please refer to the attached file (Test Setup Photo).

Appendix – Information on The Testing Laboratories

We, [Hwa-Hsing \(Dongguan\) Testing Co., Ltd.](#), A global provider of TESTING and CERTIFICATION services for consumer products, electronic products and wireless information technology products. Adhering to the core values “HONEST and TRUSTWORTHY, OBJECTIVE and IMPARTIALITY, RIGOROUS and AFFICIENT”, commitment to provide professional, perfect and efficient comprehensive ONE-STOP solution of TESTING and CERTIFICATION services for Manufacturers, Buyers, Traders, Brands, Retailers. Assist client to better manage risk, protect their brands, reduce costs and cut time to over 150 markets in global. Our laboratories are FCC recognized accredited test firms and accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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