



# **FCC** Radio Test Report

FCC ID: SPYMC432

Report No. : BTL-FCCP-5-2012T187

**Equipment** : Mobile Computer

Model Name : MC432
Brand Name : iMotion
Applicant : iWaylink Inc.

Address: 6F., NO. 288, SEC. 6, CIVIC BLVD., XINYI DIST., TAIPEI CITY 11087,

TAIWAN (R.O.C.)

Radio Function : RLAN 5 GHz (U-NII 2A, U-NII 2C)

FCC Rule Part(s) : FCC Part 15, Subpart E (15.407) / FCC 06-96

Measurement : FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01
Procedure(s) FCC KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

FCC KDB 905462 D03 UNII Clients Without Radar Detection New Rules

v01r02

**Date of Receipt** : 2021/1/26

**Date of Test** : 2021/1/26 ~ 2021/3/30

**Issued Date** : 2021/5/6

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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#### **Declaration**

**BTL** represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

**BTL**'s reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

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BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

#### Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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# **REVISON HISTORY**

Report No.	Version	Description	Issued Date
BTL-FCCP-5-2012T187	R00	Original Report.	2021/4/21
BTL-FCCP-5-2012T187	R01	Revised report to address TCB's comments.	2021/5/6



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# 1 EUT INFORMATION

# 1.1 EUT SPECIFICATION TABLE

Table 1: Specification of EUT

Table 1: Specification of EUT					
Equipment	Mobile Computer				
Model Name	MC432				
Brand Name	iMotion				
Model Difference	The EUT includes two types Reader and memory:				
Woder Billerenee	Honeywell: 64GB & Datalogic: 32GB.				
Power Source	(1) DC Voltage supplied from AC/DC adapter.				
. ower course	(2) Battery supplied.				
	(1) #1 (US type)				
	I/P: 100-240V~50 / 60Hz, 0.5A				
	O/P: 5V, 2.5A / 9V, 2A / 12V, 1.5A				
	#2 (EU type)				
Davier Dating	I/P: 100-240V~50 / 60Hz, 0.5A				
Power Rating	O/P: 5V, 3A / 9V, 2A / 12V, 1.5A				
	#3 (UK Type) I/P: 100-240V~50 / 60Hz, 0.7A				
	O/P: 5V, 3A / 9V, 2A / 12V, 1.5A				
	O/P. 5V, 5A/ 9V, 2A/ 12V, 1.5A				
	(2) I/P: DC 3.85V, 3900mAh / 15.01Wh				
	1 * Travel Charger:				
	Dongguan Aohai Technology Co,. Ltd. / A138A-120150U-US2				
	2 * Reader:				
	(1) Honeywell (memory: 64GB)				
Dec divete Covered	(2) Datalogic (memory: 32GB)				
Products Covered	2 * Power Adapter:				
	(1) Jiangxi Jian Aohai Tecnology Co., Ltd. / A138A-120150U-EU4				
	(2) Dongguan Aohai Power Techology Co., Ltd. / A824-120150U-UK1				
	1 * Battery: ZhuHai COSMX / 1400-900057G				
	1 * Type C Cable: HOTRON/ D0017100R2SCZ				
	☐ Master				
Operational Mode	☐ Slave with radar detection				
Operation Band	UNII-2A: 5250 MHz to 5350 MHz				
operation Band	UNII-2C: 5470 MHz to 5725 MHz				
Operating Frequency	UNII-2A: 5260 MHz to 5320 MHz				
, , ,	UNII-2C: 5500 MHz to 5700 MHz				
Modulation	OFDM				
Test Model	MC432				
Sample Status	Engineering Sample				
EUT Modification(s)	N/A				

## NOTE:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

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# (2) Channel List:

IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)			11n (HT40) Iac (VHT40)	IEEE 802.11ac (VHT80)		
UNII	-2A	UNII-2A UNI		I-2A		
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
52	5260	54	5270	58	5290	
56	5280	62	5310			
60	5300					
64	5320					

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	UNI	I-2C	UNI	I-2C
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590		
112	5560	126	5630		
116	5580	134	5670		
120	5600				
124	5620				
128	5640				
132	5660				
136	5680				
140	5700				

#### (3) Table for Filed Antenna:

Antenna	Manufacture	Model name	Туре	Connector	Frequency (MHz)	Gain (dBi)		
					2400	-4.41		
					2500	-4.11		
Main	Innag	MDA-LTE8LBG0LB-0	PIFA	N/A	5150	-0.90		
IVIAIII	Inpaq	01	01	PIFA N/A	FIFA	IN/A	5250	-0.60
					5470	-0.14		
						5850	2.39	
					2400	1.36		
	MDA-LTE8LBG0LB-0						2500	0.26
Aux		PIFA	N/A	5150	0.28			
Aux		FIFA		5250	0.68			
					5470	1.10		
					5850	2.04		

# Note:

- (1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R).
- (2) For Conducted Output Power (CDD mode) For  $N_{ANT} = 2 < 5$ , Direction gain =  $G_{ANT} + 0 = 1.10 + 0 = 1.10$  dBi.

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#### 1.2 EIRP POWER

Table 2: The Conducted Output Power and EIRP List

Test Mode	IUNII-2A

Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5260 to 5320	17.42	1.10	18.52	71.12	NOTE (1)

Test Mode	UNII-2C

Frequency (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Maximum EIRP Power (dBm)	Maximum EIRP Power (mW)	Remark
5500 to 5700	17.72	1.10	18.82	76.21	NOTE (1)

NOTE:

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<sup>(1)</sup> EIRP Power (dBm) = Conducted Power (dBm) + Antenna Gain (dBi). Power (mW) = 1 mW \*  $10^{(dBm/10)}$ .



## 2 U-NII DFS RULE REQUIREMENTS

## 2.1 WORKING MODES AND REQUIRED TEST ITEMS

The manufacturer shall state whether the UUT is capable of operating as a Master and/or a Client. If the UUT is capable of operating in more than one operating mode then each operating mode shall be tested separately. See tables 3 and 4 for the applicability of DFS requirements for each of the operational modes.

Table 3: Applicability of DFS requirements prior to use a channel

		Operational Mode				
Requirement	Master	Client without radar detection	Client with radar			
Non-Occupancy Period	✓	Not required	✓			
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	✓			

Table 4: Applicability of DFS requirements during normal operation.

	Operational Mode				
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	✓		

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## 2.2 TEST LIMITS AND RADAR SIGNAL PARAMETERS

## **DETECTION THRESHOLD VALUES**

Table 5: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection.

Maximum Transmit Power	Value (See Notes 1 and 2)	
EIRP ≥ 200 milliwatt	-64 dBm	
EIRP < 200 milliwatt and	-62 dBm	
Power spectral density < 10 dBm/MHz		
EIRP < 200 milliwatt that do not meet the	04.45	
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.

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Table 6: 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	Minimum 100% of the UNII 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.

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#### PARAMETERS OF DFS TEST SIGNALS

Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 7: Short Pulse Radar Test Waveforms.

Pulse	PRI	Number of Pulses	Minimum	Minimum
Width	(µsec)		Percentage of	Number
(µsec)			Successful	of
			Detection	Trials
1	1428	18	See Note 1	See Note
				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 $ \begin{cases} \left(\frac{1}{360}\right) \\ \left(\frac{19 \cdot 10^6}{PRI_{\mu sec}}\right) \end{cases} $	60%	30
1-5		23-29	60%	30
	200-500		60%	30
11-20	200-500	12-16	60%	30
	1-4)		80%	120
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Width (μsec)  1 1428  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  1-5 150-230 6-10 200-500	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Width (μsec)         (μsec)         Percentage of Successful Detection           1         1428         18         See Note 1           1         Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a         Roundup

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

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.

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Table 8: 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

The parameters for this waveform are randomly chosen (The center frequency for each of the 30 trials of the Bin 5 radar shall be randomly selected within 80% of the Occupied Bandwidth.) Thirty unique waveforms are required for the Long Pulse Radar Type waveforms. If more than 30 waveforms are used for the Long Pulse Radar Type waveforms, then each additional waveform must also be unique and not repeated from the previous waveforms.

Table 9: Frequency Hopping 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
6	1	333	9	0.333	300	70%	30



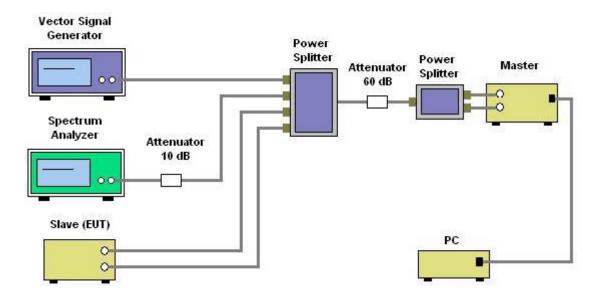
#### **3 EMC EMISSION TEST**

## 3.1 **DFS MEASUREMENT SYSTEM**

#### **Test Precedure**

- 1. Master device and client device are set up by conduction method as the following configuration.
- 2. The client device is connected to notebook and to access a IP address on wireless connection with the master device.
- 3. Then the master device is connected to another notebook to access a IP address.
- 4. Finally, let the two IP addresses run traffic with each other through the Run flow software "Lan test" to r each 17% channel loading as below

## Setup



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# **Channel Loading**



Test Band	ON	Numbers	On Time	Period	Channel Loading	Required
	(ms)	(ON)	(ms)	(ON+OFF) (ms)	Ratio (%)	Ratio (%)
5.470 GHz to 5.725 GHz	7.2050	1	7.2050	19.89	36.22%	≥ 17%



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. 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.

Should multiple RF ports be utilized for the Master and/or Slave devices (for example, for diversity or MIMO implementations), additional combiner/dividers are inserted between the Master Combiner/Divider and the pad connected to the Master Device (and/or between the Slave Combiner/Divider and the pad connected to the Slave Device). Additional pads are utilized such that there is one pad at each RF port on each EUT.



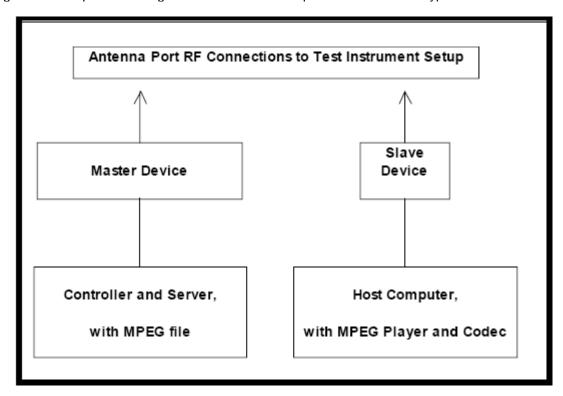
#### 3.2 CALIBRATION OF DFS DETECTION THRESHOLD LEVEL

A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected in place of the master device and the signal generator is set to CW mode. The amplitude of the signal generator is adjusted to yield a level of –62 dBm as measured on the spectrum analyzer.

Without changing any of the instrument settings, the spectrum analyer is reconnected to the Common port of the Spectrum Analyzer Combiner/Divider. Measure the amplitude and calculate the difference from -62 dBm. Adjust the Reference Level Offset of the spectrum analyzer to this difference.

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 –62 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.



#### 3.3 DEVIATION FROM TEST STANDARD

No deviation.

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# 4 LIST OF MEASURING EQUIPMENTS

	Dynamic Frequency Selection (DFS)						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until	
1	Spectrum Analyzer	Keysight	N9010A	MY54200240	2020/6/11	2021/6/10	
2	MXG Vector Signal Generator	Agilent	N5182B	MY51350711	2021/3/25	2022/3/24	
3	10dB Attenuators	Mini-Cicuits	VAT-10+	N/A	2020/5/14	2021/5/13	
4	20dB Attenuators	Mini-Cicuits	VAT-20+	N/A	2020/5/14	2021/5/13	
5	30dB Attenuators	Mini-Cicuits	VAT-30+	N/A	2020/5/14	2021/5/13	
6	POWER SPLITTER	Mini-Circuits	ZFRSC-183-S+	N/A	2020/5/14	2021/5/13	
7	POWER SPLITTER	Mini-Cicuits	ZFRSC-123-S+	N/A	2020/5/14	2021/5/13	

			Master Device	)		
Item	Kind of Equipment	Manufacturer	Type No.	FCC ID	IC	Note
1	AP	Check Point	L-71W	YHI-NW121	9715A-NW121	-

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.

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# 5 TEST RESULTS

# 5.1 SUMMARY OF TEST RESULT

Clause	Test Parameter	Test Mode and Channel	Remarks	Pass/Fail
15.407	DFS Detection Threshold	-	No Applicable	N/A
15.407	Channel Availability Check Time	-	Not Applicable	N/A
15.407	Channel Move Time	11a 5540 MHz 11n (HT40) 5550 MHz 11ac (VHT0) 5530 MHz	Applicable	Pass
15.407	Channel Closing Transmission Time	11a 5540 MHz 11n (HT40) 5550 MHz 11ac (VHT0) 5530 MHz	Applicable	Pass
15.407	Non- Occupancy Period	11a 5540 MHz 11n (HT40) 5550 MHz 11ac (VHT0) 5530 MHz	Applicable	Pass
15.407	Uniform Spreading	-	Not Applicable	N/A
15.407	U-NII Detection Bandwidth	-	Not Applicable	N/A

## NOTE:

# 5.2 EST MODE: DEVICE OPERATING IN MASTER MODE.

The EUT is slave equipment, it need a master device when testing.

Master with injection at the Master. (Radar Test Waveforms are injected into the Master)

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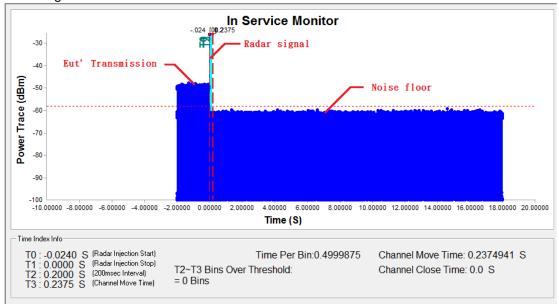
<sup>1.</sup> The report format version is TP.1.1.1.



#### 5.3 CHANNEL CLOSING TRANSMISSION AND CHANNEL MOVE TIME WLAN TRAFFIC

TX (11a Mode)

## Radar signal 0

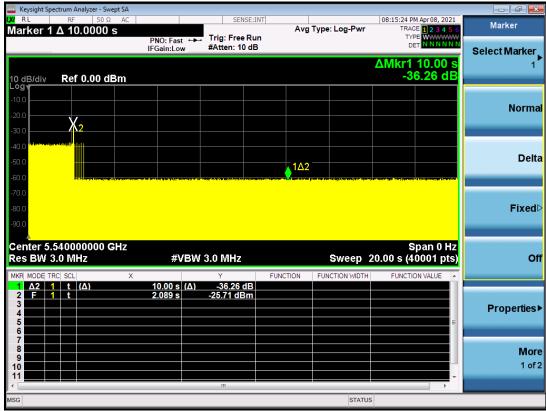


Note: T0 denotes the Radar Injection Start.

T1 denotes the start of Channel Move Time upon the end of the last Radar burst.

T2 denotes the data transmission time of 200ms from T1.

T3 denotes the end of Channel Move Time.

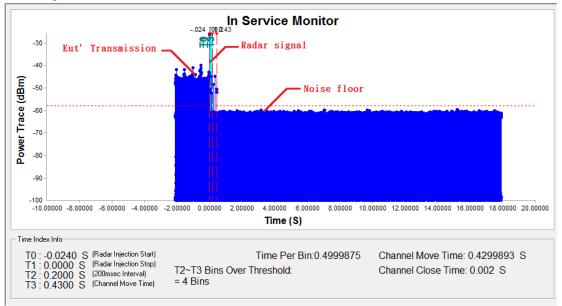


Note: An expanded plot for the device vacates the channel in the required 500ms



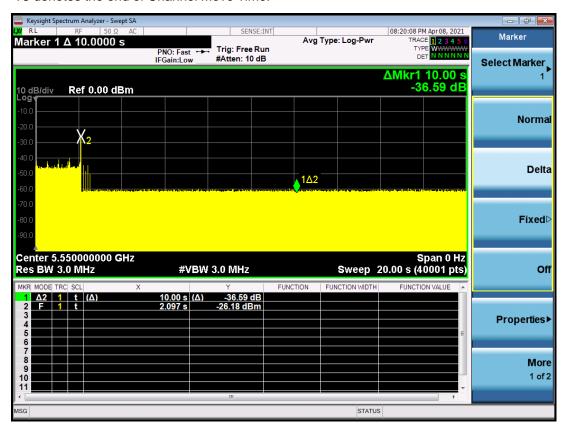
## TX (11n (HT40) Mode)

#### Radar signal 0



**Note:** To denotes the Radar Injection Start.

- T1 denotes the start of Channel Move Time upon the end of the last Radar burst.
- T2 denotes the data transmission time of 200ms from T1.
- T3 denotes the end of Channel Move Time.

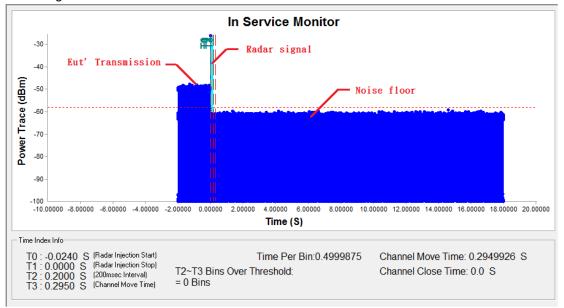


Note: An expanded plot for the device vacates the channel in the required 500ms



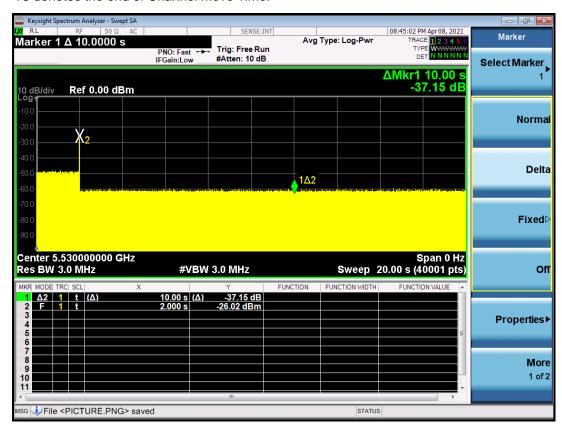
## TX (11ac (VHT80) Mode)

#### Radar signal 0



**Note:** To denotes the Radar Injection Start.

- T1 denotes the start of Channel Move Time upon the end of the last Radar burst.
- T2 denotes the data transmission time of 200ms from T1.
- T3 denotes the end of Channel Move Time.



Note: An expanded plot for the device vacates the channel in the required 500ms



	11a Mode	
Item	Measured Value(s)	Limit(s)
Channel Move Time	0.2374941	10
		200 milliseconds + an aggregate of
Channel Close Time	0.0	60 milliseconds over remaining 10
		second period

11n (HT40) Mode					
Item	Measured Value(s)	Limit(s)			
Channel Move Time	0.4299893	10			
		200 milliseconds + an aggregate of 60			
Channel Close Time	0.002	milliseconds over remaining 10 second			
		period			

11ac (VHT80) Mode					
Item	Measured Value(s)	Limit(s)			
Channel Move Time	0.2949926	10			
		200 milliseconds + an aggregate of 60			
Channel Close Time	0.0	milliseconds over remaining 10 second			
		period			



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# **6 EUT TEST PHOTO**

Please refer to document Appendix No.: TP-2012T187-FCCP-1 (APPENDIX-TEST PHOTOS).

# 7 EUT PHOTOS

Please refer to document Appendix No.: EP-2012T187-1 (APPENDIX-EUT PHOTOS).

**End of Test Report**