

Report No.: SZEM160200065906

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Nanshan

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FCC DFS TEST REPORT

Application No:	SZEM1602000659CR
Applicant:	Embest Technology Co., Ltd
Manufacturer:	Embest Technology Co., Ltd
Factory:	Embest Technology Co., Ltd
Product Name:	MCIMX7SABRE
Model No.(EUT):	MCIMX7SABRE
FCC ID:	2AFLY-MCIMX7SABRE
Standards:	47 CFR Part 15, Subpart E (2015) KDB 905462 D02 KDB 905462 D03
Date of Receipt:	2016-03-10
Date of Test:	2016-03-23 to 2016-04-06
Date of Issue:	2016-04-18
Test Result:	Pass*

^{*}In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

	Revision Record			
Version	Chapter	Date	Modifier	Remark
00		2016-04-18		Original

Authorized for issue by:		
Tested By	Peter Gene	2016-04-06
	(Peter Geng /Project Engineer	Date
Prepared By	Joyce Shi	2016-04-18
	(Joyce Shi) /Clerk	Date
Checked By	Eric Fu	2016-04-18
	(Eric Fu) /Reviewer	Date

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3 Test Summary

Test Item Test Requirement		Test method	Result
Dynamic Frequency Selection	15.407 (h)(2)	KDB 905462 D02 KDB 905462 D03	PASS



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5 General Information

5.1 Client Information

Applicant: Embest Technology Co., Ltd

Address of Applicant: Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park,

Liuxian Ave, No,1183, Nanshan District, Shenzhen, Guangdong, China

Manufacturer: Embest Technology Co., Ltd

Address of Manufacturer: Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park,

Liuxian Ave, No,1183, Nanshan District, Shenzhen, Guangdong, China

Factory: Embest Technology Co., Ltd

Address of Factory: Tower B 4/F, Shanshui Building, Nanshan Yungu Innovation Industry Park,

Liuxian Ave, No,1183, Nanshan District, Shenzhen, Guangdong, China

5.2 General Description of E.U.T.

Product Name: MCIMX7SABRE
Model No.: MCIMX7SABRE

5.3 Technical Specifications

Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number channels	of
	UNII	IEEE 802.11a	5180-5240	4	
	Band I	IEEE 802.11n 20MHz	5180-5240	4	
		IEEE 802.11n 40MHz	5190-5230	2	
		IEEE 802.11ac 80MHz	5210	1	
	UNII	IEEE 802.11a	5260-5320	4	
	Band II-A	IEEE 802.11n 20MHz	5260-5320	4	
		IEEE 802.11n 40MHz	5270-5310	2	
		IEEE 802.11ac 80MHz	5290	1	
	UNII	IEEE 802.11a	5500-5700	11	
	Band II-C	IEEE 802.11n 20MHz	5500-5700	11	
		IEEE 802.11n 40MHz	5510-5670	5	
		IEEE 802.11ac 80MHz	5530-5610	3	
	UNII Band III	IEEE 802.11a	5745-5825	5	
		IEEE 802.11n 20MHz	5745-5825	5	
		IEEE 802.11n 40MHz	5755-5795	2	
		IEEE 802.11ac 80MHz	5775	1	
	* The 5600	-5650MHz can not be used	d in Canada.	•	
Type of Modulation:	IEEE 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM)				
	IEEE 802.1	IEEE 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM)			
DFS mode	Client with	out radar detection			
Sample Type:	Fixed prod	Fixed production			
Antenna Type:	Integral	Integral			

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Antenna Gain:	0dBi
Power Supply	Model: WT0504000
	INPUT: AC 100-240V, 50/60Hz
	OUTPUT: DC 5V, 4A
Test Voltage:	AC 120V/60Hz

5.4 Description of Support Units

Description	Manufacturer	Model No.	FCC ID
Wireless Router	Aruba Networks, Inc.	APIN0114	Q9DAPINR15515P



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5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

· CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

Industry Canada (IC)

The 3m Semi-anechoic chambers and the 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2, 4620C-3.



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6 Dynamic Frequency Selection

6.1 Applicability of DFS requirements

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

rabio 1: Applicability of B1 & Requiremente 1 flor to 660 of a Grafino				
	Operational Mode			
Requirement	□Master	⊠Client Without	Client With Radar	
		Radar Detection	Detection	
Non-Occupancy Period	Yes Not required Yes		Yes	
DFS Detection Threshold	Yes Not required Yes		Yes	
Channel Availability Check Time	Yes Not required Not require		Not required	
U-NII Detection Bandwidth	Yes Not required Yes		Yes	

Table 2: Applicability of DFS requirements during normal operation

rable 217 (ppiloability of 21 o requirements daring normal operation			
	Operational Mode		
Requirement	☐ Master Device or Client with	⊠Client Without Radar	
·	Radar Detection	Detection	
DFS Detection Threshold	Yes	Not required	
Channel Closing Transmission	Yes	Yes	
Time	res	res	
Channel Move Time	Yes	Yes	
U-NII Detection Bandwidth	Yes	Not required	

Additional requirements for devices with multiple bandwidth modes	☐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 Transmission Time	Test using widest BW mode available	Test using the widest BW mode 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.



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6.2 Limit

6.2.1 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

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.

6.2.2 DFS Response Requirements

Table 4: DFS Response Requirement Values

rable in bit of responde trequirement 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 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 facilitating 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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6.3 Parameters of radar test Waveforms

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. 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 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 Note 1	See Note 1
		Test A	$\left(\left(\begin{array}{c} 1 \end{array} \right) \right)$		
1	1	Test B	Roundup $ \left\{ \frac{360}{360} \right\} $ $ \left\{ \frac{19 \cdot 10^6}{PRI_{\mu sec}} \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 (F	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.

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

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.

Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4



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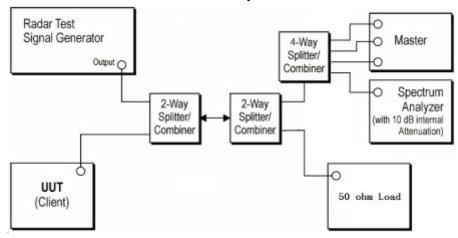
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6.4 Calibration of Radar Waveform

6.4.1 Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is -62dBm + 0dBi +1dB = -61dBm that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was -62dBm + 0dBi +1dB = -61dBm. Capture the spectrum analyzer plots on short pulse radar waveform.

6.4.2 Conducted Calibration Setup



6.4.3 Calibration Deviation

There is no deviation with the original standard.

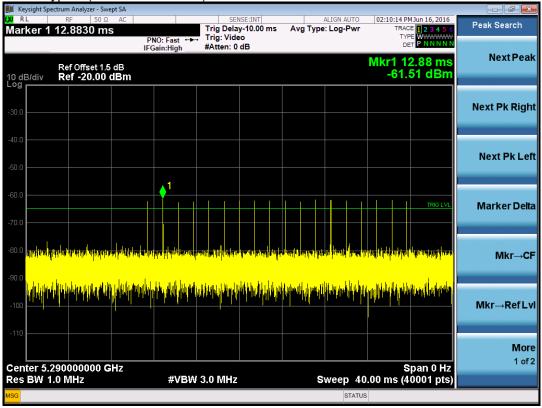


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6.4.4 Radar Waveform Calibration Result





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6.5 Test Procedure

1) The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.

- 2) The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device.
- 3) A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
- 4) EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
- 5) When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
- 6) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel. Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom in 600ms plot of the Short Pulse Radar Type.
- 7) Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: Dwell (0.3ms) =S (12000ms) / B (4000); where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: C (ms)= N X Dwell (0.3ms); where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
- 8) Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.



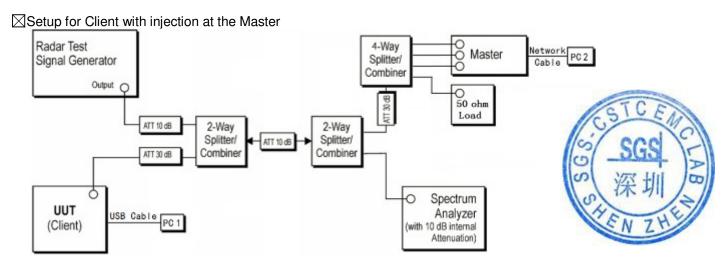
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6.6 Test Equipment

	RF test system					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Power Sensor	Agilent Technologies	U2021XA_ Ch1	SEL0320	2015-10-12	2016-10-12
2	Power Sensor	Agilent Technologies	U2021XA_ Ch2	SEL0321	2015-10-17	2016-10-17
3	Power Sensor	Agilent Technologies	U2021XA_ Ch3	SEL0322	2015-10-17	2016-10-17
4	Power Sensor	Agilent Technologies	U2021XA_ Ch4	SEL0323	2015-10-12	2016-10-12
5	SGSREF, Adaptivity Unit	Top Precision Technologies	N/A	N/A	N/A	N/A
6	DAQ Device	Agilent Technologies	U2531A	SEL0325	2015-10-13	2016-10-13
7	EXG Analog Signal Generator	KEYSIGHT	N5171B	SEL0326	2014-08-27	2017-08-27
8	EXA Signal Analyzer	Agilent Technologies	N9010A	SEL0329	2015-07-18	2016-07-18
9	ESG vector signal generator	Agilent Technologies	E4483C	SEL0330	2015-07-18	2016-07-18

6.7 Test Setup



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6.8 Test Result

Test Data:

BW/Channel	Test Item	Test Result	Limit	Results
80MHz/5290MHz	Channel Move Time	4.063s	<10s	Pass
	Channel Closing Transmission Time	0.040s	<1s	Pass
	Non-Occupancy Period	≥30	≥30minutes	Pass

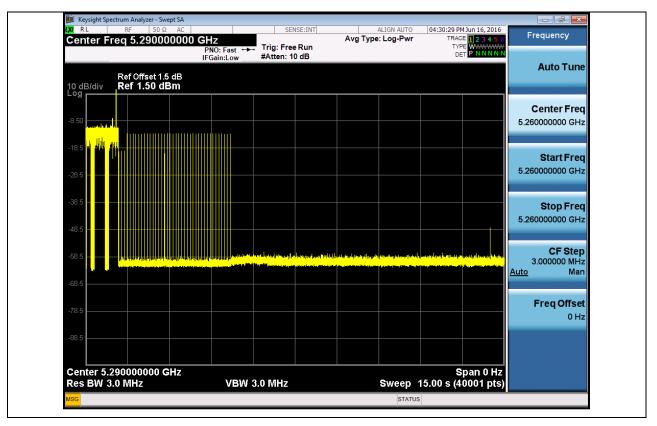
Test plots as follows:





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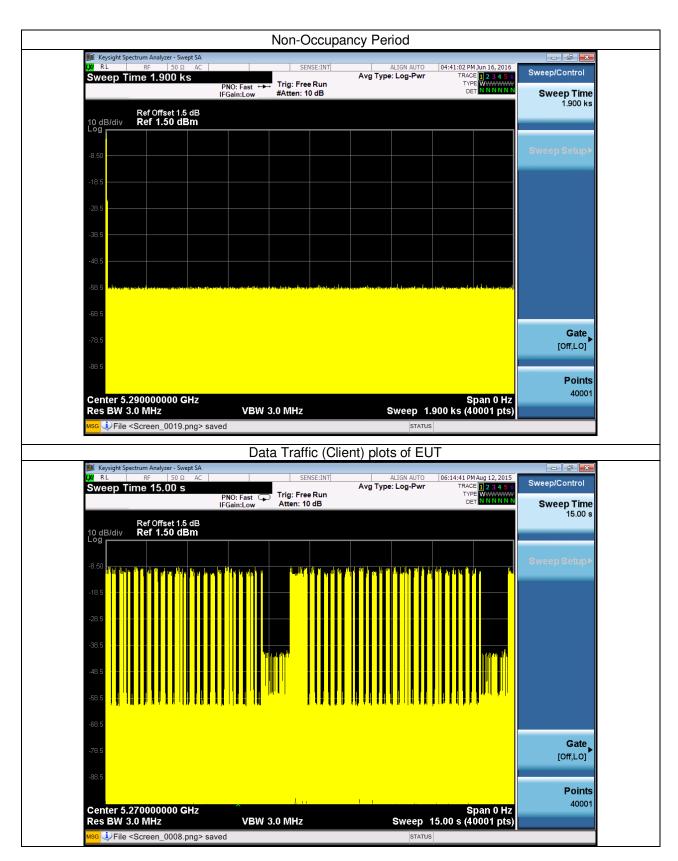


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7 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1602000659CR.

-- End of the Report--