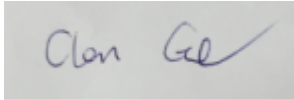


RF TEST REPORT



Report No.: CE_RF_SL17042801-DUS-002R1
Supersede Report No.:

Applicant	Dust Networks		
Product Name	2.4 GHz Wireless Mote		
Model No.	M2140, M2510		
Test Standard	EN 300 328 v2.1.1 (2016-11)		
Test Method	EN 300 328 V2.1.1 (2016-11)		
Date of test	04/28/2017		
Issue Date	05/26/2017		
Test Result	<u>Pass</u> Fail		
Equipment complied with the specification			[x]
Equipment did not comply with the specification			[]
Shuo Zhang			
Shuo Zhang		Chen Ge	
Test Engineer		Engineer Reviewer	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only			

Issued By:
SIEMIC Laboratories
775 Montague Expressway, Milpitas, 95035 CA



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Laboratory Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom
Taiwan	BSMI, NCC, NIST	EMC, RF, Telecom, Safety
Hong Kong	OFTA, NIST	RF/Wireless, Telecom
Australia	NATA, NIST	EMC, RF, Telecom, Safety
Korea	KCC/RRR, NIST	EMI, EMS, RF, Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC, RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom, Safety
Israel	MOC, NIST	EMC, RF, Telecom, Safety

Accreditations for Product Certifications

Country	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC, RF, Telecom
Canada	IC FCB, NIST	EMC, RF, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom
EU	NB	EMC & RED Directive
Japan	MIC (RCB 208)	RF, Telecom
Hong Kong	OFTA (US002)	RF, Telecom

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1 Report Revision History

Report No.	Report Version	Description	Issue Date
CE_RF_SL17042801-DUS-002R1	None	Original	05/17/2017

2 Executive Summary

The purpose of this test program was to demonstrate compliance of following product

Company: Dust Networks
Product: 2.4 GHz Wireless Mote
Model: M2140, M2510

against the current Stipulated Standards. The specified model product stated above has demonstrated compliance with the Stipulated Standard listed on 1st page.

3 Customer information

Applicant Name	Dust Networks
Applicant Address	32990 Alvarado-Niles Rd, Suite 910 Union City, CA, 94587, U.S.A.
Manufacturer Name	Dust Networks
Manufacturer Address	32990 Alvarado-Niles Rd, Suite 910 Union City, CA, 94587, U.S.A.

4 Test site information

Lab performing tests	SIEMIC Laboratories
Lab Address	775 Montague Expressway, Milpitas, CA 95035
FCC Test Site No.	881796
IC Test Site No.	4842D-2
VCCI Test Site No.	A0133

5 Modification

Index	Item	Description	Note
-	-	-	-

6 EUT Information

6.1 EUT Description

Product Name:	2.4 GHz Wireless Mote
Model No.:	M2140, M2510
Trade Name:	Dust Networks
Serial No.:	00-17-00-00-06-4A-97
Input Power:	Battery
Software version:	N/A
Date of EUT received:	05/02/2017
Equipment Class/ Category:	Class A / Radio Node
Highest frequency generated or used in the device or on which the device operates or tunes:	2.4 GHz
Port/Connectors:	Serial
Remark:	Only Model M2140 was tested for this report, as this was this was considered worse case, and the other two models contain exactly the same hardware. T This Amendment Report was made in order to meet the new RED standards Please refer to the CKC Lab original CE EMC Test Reports No.: ETS07-043B and ETS07-043B1 for all other tests needed. See those reports for more details
AC Power Cord Type:	N/A – Power Supplied Battery Power
DC Power Cable Type:	N/A

6.2 Radio Description

Spec for 802.15.4e

Radio Type	802.15.4e
Operating Frequency	2405MHz-2475MHz
Modulation	OPQSK
Channel Spacing	5MHz
Antenna Type	Chip Antenna / Dipole Antenna
Antenna Gain	-1.0dBi / 3.8 dBi
Antenna Connector Type	N/A

Channel List

Type	Channel No.	Frequency (MHz)	Available (Y/N)
802.15.4e	11	2405	Y
	Y
	18	2440	Y
	Y
	25	2475	Y

Table of Power Setting

TEST SOFTWARE VERSION	N/A			Note
FREQUENCY(MHz)	2405	2440	2475	-
SETTING	High Power Setting	High Power Setting	High Power Setting	-

6.3 EUT Operational Condition

Item	Range		
AC Adaptor Voltage	3.3VDC		
Environmental Condition	Tnom = 25 °C	Tmax = 41 °C	Tmin = 5 °C

6.4 EUT test modes/configuration Description

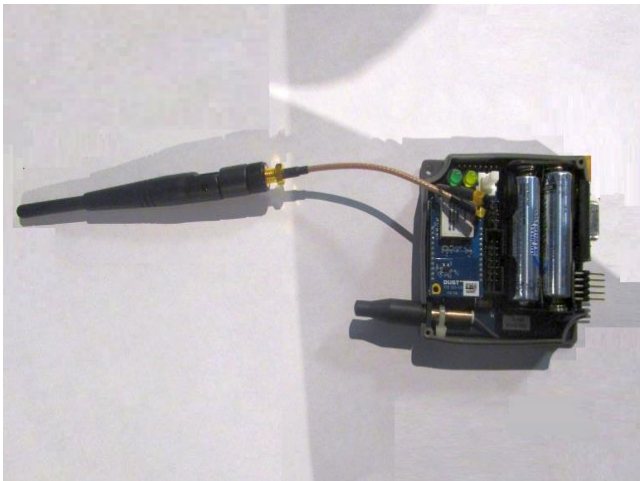
Test mode

Test Mode		Note
Pre_test_mode_1	Normal Operation Mode	-
Pre_test_mode_2		-
Pre_test_mode_3	-	-

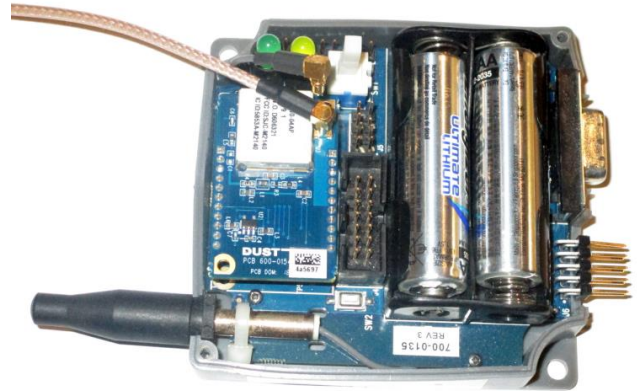
6.5 Adaptive Equipment

Adaptive Equipment		
<input checked="" type="checkbox"/>	Adaptive Equipment without the possibility to switch to a non-adaptive mode:	
	<input checked="" type="checkbox"/>	The equipment has implemented an LBT based DAA mechanism
	<input type="checkbox"/>	The equipment is Frame Based equipment
	<input checked="" type="checkbox"/>	The equipment is Load Based equipment
	<input type="checkbox"/>	The equipment can switch dynamically between Frame Based and Load Based equipment
	<input type="checkbox"/>	The equipment has implemented and non-LBT based DAA mechanism
	<input type="checkbox"/>	The equipment can operate in more than one adaptive mode
	<input type="checkbox"/>	Adaptive Frequency Hopping using other forms of DAA (non-LBT based) / without Short Control Signaling Transmissions
<input type="checkbox"/>	Equipment which operate in a non-adaptive mode	

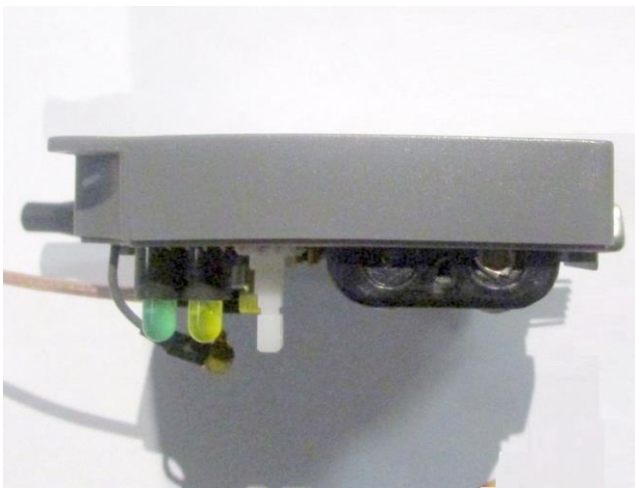
6.6 EUT Photos | External



EUT - Top Open with Cover Off View



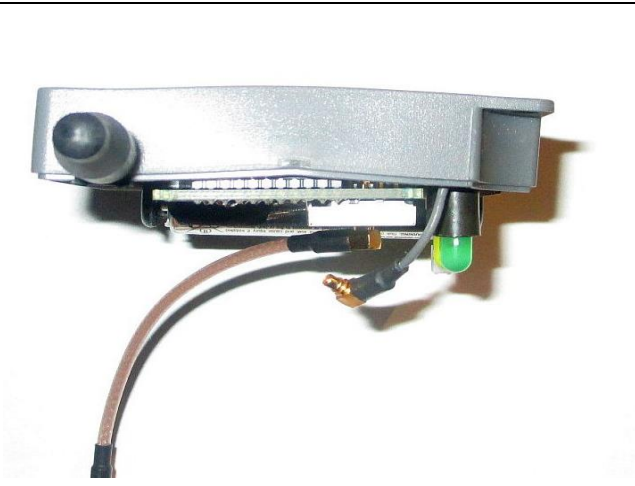
EUT Top Open with Cover Off Close Up



EUT - Left View



EUT - Right View



EUT - Top View



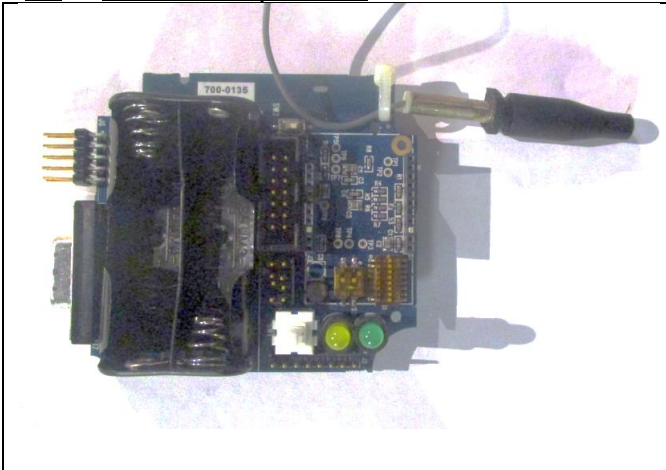
EUT - Bottom View

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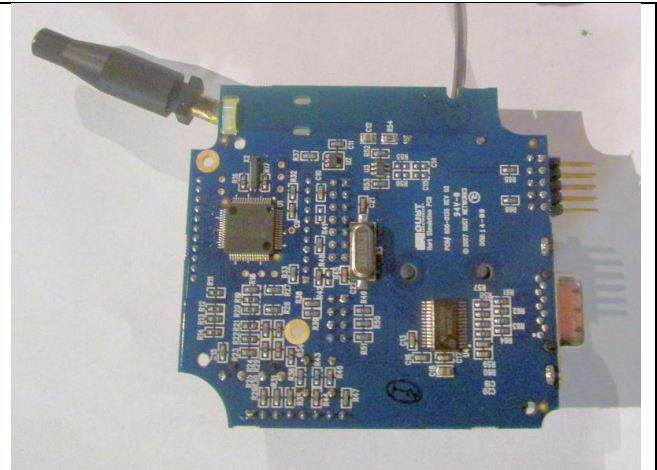


EUT – Back View

6.7 EUT Photos | Internal



EUT Mother Board Top



EUT Mother Board Bottom

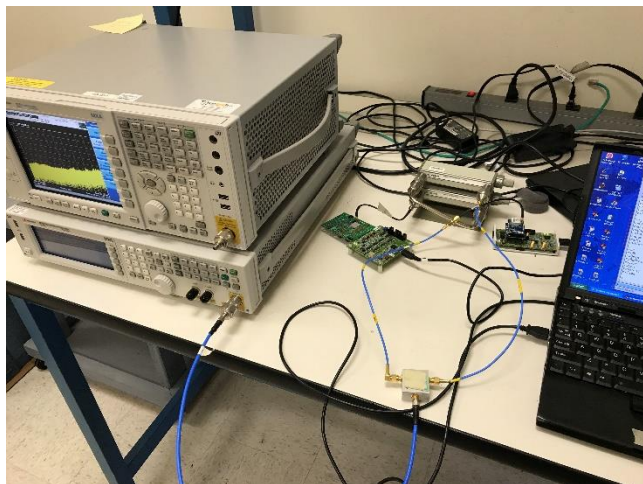


Daughter Card – Top View



Main Daughter Card Bottom View

6.8 EUT Photos | Test setup



Receiver Blocking

7 Supporting Equipment/Software and cabling Description

7.1 Supporting Equipment

Item	Supporting Equipment Description	Model	Serial Number	Manufacturer	Note
1	Laptop	7675 X61 Thinkpad	LV-L6N2 08/06	Lenovo	-
2	Network Manager	Smartmesh-XD D2511	DCM2650	Dust Networks	-

7.2 Cabling Description

Name	Connection Start		Connection Stop		Length / shielding Info		Note
	From	I/O Port	To	I/O Port	Length (m)	Shielding	
USB Cable	Laptop	USB	Network Manager	9pin Serial	0.3	Shielded	-
Serial Cable	EUT	Serial	N/A	N/A	N/A	N/A	-

7.3 Test Software Description

Test Item	Software	Description
RF Testing	Command Prompt	Program used to RX and TX ping to the EUT from the laptop and network manager.

8 Test Summary

Summary for 2.4GHz (DSSS-802.15.4e)

Test Item	Test standard	Test Method/Procedure	Pass / Fail
RF Output Power	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	Pass*
Power Spectral Density	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	Pass*
DutyCycle, Tx-sequence, Tx-gap	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	N/A
Dwell time, Minimum Frequency Occupation & Hopping Sequence	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	N/A
Hopping Frequency Separation	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	N/A
Medium Utilisation	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	N/A
Adaptivity	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	Pass*
Occupied Channel Bandwidth	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	Pass*
TX Unwanted Emissions in the OOB domain	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	Pass*
TX Unwanted Emissions in the spurious domain	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	Pass*
Receiver spurious emissions	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	Pass*
Receiver Blocking	EN 300 328 V2.1.1 (2016-11)	EN 300 328 V2.1.1 (2016-11)	Pass
Remark	<ol style="list-style-type: none"> All measurement uncertainties do not take into consideration for all presented test results. The applicant shall ensure frequency stability by showing that an emission is maintained within the band of operation under all normal operating conditions as specified in the user's manual. Pass*: Please refer to report with no. 96194-4A. 		

9 Measurement Uncertainty

9.1 Radiated Emissions (30MHz to 1GHz)

The test is to measure the radiated emissions of the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- NSA Calibration
- Etc., details see the below table

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Filter Insertion Loss	0.25	Normal	2	1	0.125
Antenna Factor	0.65	Normal	2	1	0.325
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.86605081
PRF Response	1.5	Rectangular	1.732	1	0.86605081
Mismatch Filter - Receiver	0.25	U-Shape	1.414	1	0.1768033
NSA Calibration	4.0	U-Shape	1.414	1	2.8288543
Combined Standard Uncertainty					3.0059131
Expanded Uncertainty (K=2)					6.0118262

The total derived measurement uncertainty is +/- 6.00 dB.

9.2 Radiated Emissions (1GHz to 40GHz)

The test is to measure the radiated emissions of the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the receiver
- Uncertainty of the antenna
- Uncertainty of cables
- Uncertainty due to the mismatches
- VSWR Calibration
- Etc., details see the below table

Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Receiver Reading	0.12	Rectangular	1.732	1	0.0692840
Cable Insertion Loss	0.21	Normal	2	1	0.1050000
Filter Insertion Loss	0.25	Normal	2	1	0.1250000
Antenna Factor	0.65	Normal	2	1	0.3250000
Receiver CW accuracy	0.5	Rectangular	1.732	1	0.2886836
Pulse Amplitude Response	1.5	Rectangular	1.732	1	0.8660508
PRF Response	1.5	Rectangular	1.732	1	0.8660508
Mismatch Filter - Receiver	0.25	U-Shape	1.414	1	0.1768033
VSWR Calibration	2.0	U-Shape	1.414	1	1.4144272
Combined Standard Uncertainty					4.2363
Expanded Uncertainty (K=2)					8.4726

The total derived measurement uncertainty is +/- 8.47 dB.

9.3 RF conducted measurement

The test is to measure the RF output power from the EUT.

Some error sources that can contribute to the total uncertainty:

- Uncertainty of the Reference Level Uncertainty
- Uncertainty of variable attenuators
- Uncertainty of cables
- Uncertainty due to the mismatches

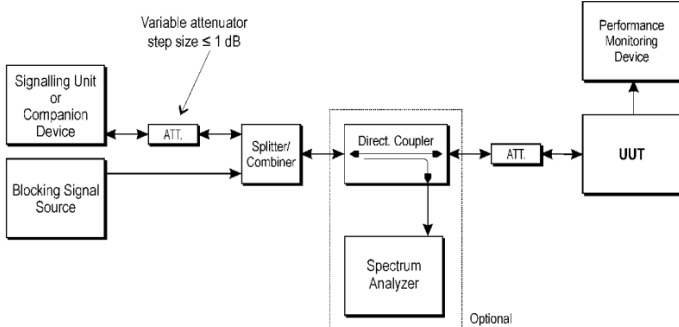
Source of Uncertainty	Value (dB)	Probability Distribution	Division	Sensitivity Coefficient	Expanded Uncertainty
Reference Level	0.12	Rectangular	1.732	1	0.069284
Cable Insertion Loss	0.21	Normal	2	1	0.105
Attenuator	0.25	Normal	2	1	0.125
Mismatch	0.25	U-Shape	1.414	1	0.1768033
Combined Standard Uncertainty					0.476087
Expanded Uncertainty (K=2)					0.952174

The total derived measurement uncertainty is +/- 0.95 dB.

10 Measurements, Examination and Derived Results

10.1 Receiver Blocking

Requirement(s):

Spec	Item	Requirement	Applicable																
EN 300 328 V2.1.1 (2016-11)	4.3.2.11	<p>4.3.2.11.4.2 Receiver Category 1</p> <p>Table 14 contains the Receiver Blocking parameters for Receiver Category 1 equipment.</p> <p>Table 14: Receiver Blocking parameters for Receiver Category 1 equipment</p> <table border="1"> <thead> <tr> <th>Wanted signal mean power from companion device (dBm)</th><th>Blocking signal frequency (MHz)</th><th>Blocking signal power (dBm) (see note 2)</th><th>Type of blocking signal</th></tr> </thead> <tbody> <tr> <td>$P_{\min} + 6 \text{ dB}$</td><td>2 380 2 503,5</td><td>-53</td><td>CW</td></tr> <tr> <td>$P_{\min} + 6 \text{ dB}$</td><td>2 300 2 330 2 360</td><td>-47</td><td>CW</td></tr> <tr> <td>$P_{\min} + 6 \text{ dB}$</td><td>2 523,5 2 553,5 2 583,5 2 613,5 2 643,5 2 673,5</td><td>-47</td><td>CW</td></tr> </tbody> </table> <p>NOTE 1: P_{\min} is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.2.11.3 in the absence of any blocking signal.</p> <p>NOTE 2: The levels specified are levels in front of the UUT antenna. In case of conducted measurements, the levels have to be corrected by the actual antenna assembly gain.</p>	Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 2)	Type of blocking signal	$P_{\min} + 6 \text{ dB}$	2 380 2 503,5	-53	CW	$P_{\min} + 6 \text{ dB}$	2 300 2 330 2 360	-47	CW	$P_{\min} + 6 \text{ dB}$	2 523,5 2 553,5 2 583,5 2 613,5 2 643,5 2 673,5	-47	CW	<input type="checkbox"/>
Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 2)	Type of blocking signal																
$P_{\min} + 6 \text{ dB}$	2 380 2 503,5	-53	CW																
$P_{\min} + 6 \text{ dB}$	2 300 2 330 2 360	-47	CW																
$P_{\min} + 6 \text{ dB}$	2 523,5 2 553,5 2 583,5 2 613,5 2 643,5 2 673,5	-47	CW																
EN 300 328 V2.1.1 (2016-11)	4.3.2.11	<p>4.3.2.11.4.3 Receiver Category 2</p> <p>Table 15 contains the Receiver Blocking parameters for Receiver Category 2 equipment.</p> <p>Table 15: Receiver Blocking parameters receiver category 2 equipment</p> <table border="1"> <thead> <tr> <th>Wanted signal mean power from companion device (dBm)</th><th>Blocking signal frequency (MHz)</th><th>Blocking signal power (dBm) (see note 2)</th><th>Type of blocking signal</th></tr> </thead> <tbody> <tr> <td>$P_{\min} + 6 \text{ dB}$</td><td>2 380 2 503,5</td><td>-57</td><td>CW</td></tr> <tr> <td>$P_{\min} + 6 \text{ dB}$</td><td>2 300 2 583,5</td><td>-47</td><td>CW</td></tr> </tbody> </table> <p>NOTE 1: P_{\min} is the minimum level of the wanted signal (in dBm) required to meet the minimum performance criteria as defined in clause 4.3.2.11.3 in the absence of any blocking signal.</p> <p>NOTE 2: The levels specified are levels in front of the UUT antenna. In case of conducted measurements, the levels have to be corrected by the actual antenna assembly gain.</p>	Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 2)	Type of blocking signal	$P_{\min} + 6 \text{ dB}$	2 380 2 503,5	-57	CW	$P_{\min} + 6 \text{ dB}$	2 300 2 583,5	-47	CW	<input checked="" type="checkbox"/>				
Wanted signal mean power from companion device (dBm)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 2)	Type of blocking signal																
$P_{\min} + 6 \text{ dB}$	2 380 2 503,5	-57	CW																
$P_{\min} + 6 \text{ dB}$	2 300 2 583,5	-47	CW																
Test Setup		 <p>Figure 6: Test Set-up for receiver blocking</p>																	
Procedure	Refer to Clause 5.4.11 of ETSI EN 300 328 V2.1.1 (2016-11)																		
Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail																		

Test Data ☒ Yes (See below) ☐ N/A

Test Plot ☐ Yes (See below) ☒ N/A

Test was done by Shuo Zhang at RF test site.

Test Result for Receiver Blocking

Low CH: 2405 MHz

Type	Frequency (MHz)	Level (dBm)	Type	Result
Receiver Blocking	2380	-53	CW	Pass
	2503.5			Pass
	2300	-47		Pass
	2583.5			Pass

Mid CH: 2440 MHz

Type	Frequency (MHz)	Level (dBm)	Type	Result
Receiver Blocking	2380	-53	CW	Pass
	2503.5			Pass
	2300	-47		Pass
	2583.5			Pass

High CH: 2475 MHz

Type	Frequency (MHz)	Level (dBm)	Type	Result
Receiver Blocking	2380	-53	CW	Pass
	2503.5			Pass
	2300	-47		Pass
	2583.5			Pass

















Note:








The EUT is category 2 receiver.

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Cycle	Cal Due	In use
Adaptivity and Receiver Blocking						
Keysight Spectrum Analyzer	N9010A	10SL0219	08/20/2016	1 Year	08/20/2017	<input checked="" type="checkbox"/>
Keysight Signal Generator	MXG N5182A	MY47071065	04/12/2017	1 Year	04/12/2018	<input checked="" type="checkbox"/>

Annex B. SIEMIC Accreditation

Accreditations	Document	Scope / Remark
ISO 17025 (A2LA)		Please see the documents for the detailed scope
ISO Guide 65 (A2LA)		Please see the documents for the detailed scope
TCB Designation		A1 , A2 , A3 , A4 , B1 , B2 , B3 , B4 , C
FCC DoC Accreditation		FCC Declaration of Conformity Accreditation
FCC Site Registration		3 meter site
FCC Site Registration		10 meter site
IC Site Registration		3 meter site
IC Site Registration		10 meter site
EU NB		Radio & Telecommunications Terminal Equipment: EN45001 – EN ISO/IEC 17025
		Electromagnetic Compatibility: EN45001 – EN ISO/IEC 17025
Singapore iDA CB(Certification Body)	 	Phase I , Phase II
Vietnam MIC CAB Accreditation		Please see the document for the detailed scope
Hong Kong OFCA		(Phase II) OFCA Foreign Certification Body for Radio and Telecom
		(Phase I) Conformity Assessment Body for Radio and Telecom
Industry Canada CAB		Radio: Scope A – All Radio Standard Specification in Category I
		Telecom: CS-03 Part I, II, V, VI, VII, VIII

Japan Recognized Certification Body Designation		<p>Radio: A1. Terminal equipment for purpose of calling</p> <p>Telecom: B1. Specified radio equipment specified in Article 38-2, Paragraph 1, Item 1 of the Radio Law</p>
Korea CAB Accreditation		<p>EMI: KCC Notice 2008-39, RRL Notice 2008-3: CA Procedures for EMI KN22: Test Method for EMI</p> <p>EMS: KCC Notice 2008-38, RRL Notice 2008-4: CA Procedures for EMS KN24, KN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11: Test Method for EMS</p> <p>Radio: RRL Notice 2008-26, RRL Notice 2008-2, RRL Notice 2008-10, RRL Notice 2007-49, RRL Notice 2007-20, RRL Notice 2007-21, RRL Notice 2007-80, RRL Notice 2004-68</p> <p>Telecom: President Notice 20664, RRL Notice 2007-30, RRL Notice 2008-7 with attachments 1, 3, 5, 6; President Notice 20664, RRL Notice 2008-7 with attachment 4</p>
Taiwan NCC CAB Recognition		LP0002, PSTN01, ADSL01, ID0002, IS6100, CNS14336, PLMN07, PLMN01, PLMN08
Taiwan BSMI CAB Recognition		CNS 13438
Japan VCCI		<p>R-3083: Radiation 3 meter site</p> <p>C-3421: Main Ports Conducted Interference Measurement</p> <p>T-1597: Telecommunication Ports Conducted Interference Measurement</p>
Australia CAB Recognition		<p>EMC: AS/NZS CISPR 11, AS/NZS CISPR 14.1, AS/NZS CISPR22, AS/NZS 61000.6.3, AS/NZS 61000.6.4</p> <p>Radio communications: AS/NZS 4281, AS/NZS 4268, AS/NZS 4280.1, AS/NZS 4280.2, AS/NZS 4295, AS/NZS 4582, AS/NZS 4583, AS/NZS 4769.1, AS/NZS 4769.2, AS/NZS 4770, AS/NZS 4771</p> <p>Telecommunications: AS/ACIF S002:05, AS/ACIF S003:06, AS/ACIF S004:06 AS/ACIF S006:01, AS/ACIF S016:01, AS/ACIF S031:01, AS/ACIF S038:01, AS/ACIF S040:01, AS/ACIF S041:05, AS/ACIF S043.2:06, AS/ACIF S60950.1</p>
Australia NATA Recognition		AS/ACIF S002, AS/ACIF S003, AS/ACIF S004, AS/ACIF S006, AS/ACIF S016, AS/ACIF S031, AS/ACIF S038, AS/ACIF S040, AS/ACIF S041, AS/ACIF S043.2