



Sporton International Inc.

**PAE**  
PTCRB AWARD  
OF EXCELLENCE

## TEST REPORT

### Integrated Device

Test of:  
NOTE-MBNAN

To:  
Conformance Test Cases (NAPRD03 V6.18)

Test Report Serial No: PC540113  
Test Report Version: Rev. 01  
PTCRB Request No: 131928

Issue Date: 07 May 2025

#### Declaration by Test Laboratory

The E-UTRA testing performed and shown in this report by Sporton International Inc. Mobile Communications Laboratory was conducted as per the requirements of the PTCRB (PCS Type Certification Review board).

This report is issued in Adobe Acrobat portable document format (PDF). It is only a valid copy of the report if it is being viewed in PDF format with the following security options not allowed: Changing the document, Selecting text and graphics, Adding or changing notes and form fields. Furthermore, the date of creation must match the issue date stated above. The results in this report apply only to the sample(s) tested.

Jamie Huang

Project Manager

Hendry Yang

Technical Manager / Reviewer



**Declaration of Conformity:** The test results with all measurement uncertainty excluded are in accordance with the standards from SDOs (Standard Development Organization). The test plan assessment was based on the manufacturer's declaration from PICS/PIXIT/ICS.

**Comments and Explanations:** The declared values of supply voltages (Normal, Maximum, Minimum) for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of the values. The declared values of PICS/PIXIT/ICS for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of the PICS/PIXIT/ICS.

## Revision History

[illegible]

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## **1 Details of Test**

### **1.1 Branding Manufacturer – Applicant**

<b>Address:</b>	Blues Inc 50 Harbor Street, Manchester, MA 01944
<b>Contact Name:</b>	Robert Yomtov ryomtov@blues.com

Note 1: Applicant is the company applying for the certification and should be same as “manufacturer” on the GCF or PTCRB database.

Note 2: Applicant is considered as the owner of the test report if no other statement.

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## **1.2 Test Lab of Report Issue**

<b>Address:</b>	Sporton International Inc. Mobile Communications Laboratory No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
<b>TAF Lab Code:</b>	1533

## **1.3 Location of Test**

### **1.3.1 Test Location 1**

<b>Address:</b>	Sporton International Inc. Mobile Communications Laboratory No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
<b>TAF Lab Code:</b>	1533

### **1.3.2 Test Location 2**

<b>Address:</b>	Sporton International Inc. (KunShan) Mobile Communications Laboratory No. 1098, Pengxi North Road, Kunshan Economic Development Zone, Jiangsu province, China
<b>TAF Lab Code:</b>	2627

### **1.3.3 Test Location 3**

<b>Address:</b>	Sporton International Inc. (Shenzhen) Mobile Communications Laboratory 1/F, 2/F, Bldg5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan District, Shenzhen City, Guangdong Province, China
<b>TAF Lab Code:</b>	2353

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#### **1.4 Test Environment**

<b>Testing Start Date:</b>	09 April 2025
<b>Testing End Date:</b>	16 April 2025

<b>Environmental Data:</b>	<b>Temperature (°C)</b>	<b>Humidity (%)</b>
<b>Ambient Condition</b>	22~26	28~59
<b>Maximum Extreme</b>	+55	N.A.
<b>Minimum Extreme</b>	-10	N.A.

#### **Integrated Device Supply Voltage**

<b>Normal Supply Voltage (V d.c.):</b>	12.00
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## **2 Details of Equipment under Test**

### **2.1 Final Equipment Build Status**

The following is the build status for which compliance has been demonstrated by test and declaration

The insertion loss from the antenna cable and/or connector from the EUT is provided by the manufacturer, Sporton International Inc. does not guarantee the accuracy of the values.

#### **2.1.1 Product Build Status**

<b>Brand Name:</b>	Blues
<b>Model Name:</b>	NOTE-MBNAN
<b>Product type:</b>	Notecard
<b>RAN (Radio Access Network):</b>	E-UTRA
<b>Hardware Version:</b>	2
<b>Software Version:</b>	7
<b>SVN (Software Version Number):</b>	34

Product Operation band(s) please reference to section Key Features Supported.

#### **2.1.2 Module Build Status**

<b>Manufacturer Name:</b>	Quectel
<b>Model Name:</b>	EG915Q-NA_LG
<b>RAN (Radio Access Network):</b>	E-UTRA
<b>E-UTRA Operating Band(s)</b>	FDD2 / FDD4 / FDD5 / FDD12 / FDD13 / FDD66
<b>Hardware Version:</b>	R1.0
<b>Software Version:</b>	EG915QNALGR01A04M04
<b>SVN (Software Version Number):</b>	34

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### **2.1.3 Key Features Supported**

The following Table defines the key features supported in the device.

<b>Feature</b>	<b>Supported</b>	<b>Release/Comments</b>
<b>RAN</b>	Y	E-UTRA
<b>E-UTRA Operating Band(s)</b>	Y	FDD2 / FDD4 / FDD5 / FDD12 / FDD13 / FDD66
<b>E-UTRA DL Category</b>	Y	Cat 1bis
<b>E-UTRA UL Category</b>	Y	Cat 1bis
<b>USIM Application Toolkit</b>	Y	Supported



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## **2.2 Identification of Samples Tested**

The following summary may be used to identify the samples referenced in the test summary and any declared hardware or software modifications. Where modifications have been made, conformance has been demonstrated by regression testing declared by the manufacturer.

<b>Sample Reference</b>	<b>IMEI</b>	<b>Hardware Version</b>	<b>Software Version</b>	<b>Date of Receipt</b>	<b>Note</b>
02.01.01	864009060868938	Host: 2 Module: R1.0	Host: 7 Module: EG915QNALGR01A04M04	16-Apr-25	—

**Description of Sporton Reference sample number**

**E.g. 02.01.03**

<b>02 – Sample Identification</b>	<b>01 - Hardware Version</b>	<b>03 - Software Version</b>
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### **2.3 Description of Product**

The EUT (Equipment Under Test) is a Notecard, operating in E-UTRA bands listed in Section 2.1.3.

### **2.4 Generation of Conformance Test Plan**

The following route has been chosen by the manufacturer to demonstrate compliance.

#### **2.4.1 Module Integration Certification**

Testing based on and according to the information supplied within the device integration information to:

NAPRD03 V6.18

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## **2.5 Support Equipment**

The following support equipment was used to exercise the EUT during testing.

<b>Description</b>	AC Charger
<b>Manufacturer Name</b>	None stated
<b>Model Name or Number</b>	None stated
<b>Serial Number</b>	None stated

<b>Description</b>	RF Cable
<b>Manufacturer Name</b>	None stated
<b>Model Name or Number</b>	None stated
<b>Serial Number</b>	None stated

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### **3 Reference Documents**

Testing was performed according to the following reference documents and standards applicable to the EUT.

<b>Document</b>	<b>Title</b>
NAPRD03 V6.18	Overview of PCS Type certification review board (PTCRB) Mobile Equipment Type Certification and IMEI control
3GPP TS 36.521-1	3rd Generation Partnership Project; LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing
3GPP TS 36.523-1	3rd Generation Partnership Project; LTE; Evolved Universal Terrestrial Radio Access (E-UTRA) and Evolved Packet Core (EPC); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification
3GPP TS 36.124	3rd Generation Partnership Project; Evolved Universal Terrestrial Radio Access (E-UTRA); Electromagnetic compatibility (EMC) requirements for mobile terminals and ancillary equipment
ETSI TS 102 230-1	Smart cards; UICC-Terminal interface; Physical, electrical and logical test specification Part 1: Terminal features

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**4 Test Results**

**4.1 Result Summary**

The following table summarizes the test results obtained. A definition of the result categories may be found at the end of the result tables.

<b>TOTAL RELEVANT TEST CASES PERFORMED</b>		18
	<b>UICC</b>	<b>E-UTRA</b>
<b>PASS</b>	11	7
<b>FAIL</b>	0	0
<b>Total</b>	11	7

**4.2 Tests Performed**

The following tables reflect the requirements of the relevant specification and show the tests performed. Result files verifying these verdicts are available for inspection at Sporton International Inc. Mobile Communications Laboratory.

Where subcontracting has been performed these results are not covered by Sporton International Inc. Mobile Communications Laboratory's accreditation.

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#### **4.2.1 Test Results for UICC**

<b>SPEC</b>	<b>TCID</b>	<b>TITLE</b>	<b>BAND_CONDITION</b>	<b>BAND</b>	<b>CATEGORY</b>	<b>RESULT</b>	<b>EUT</b>	<b>LOC</b>	<b>NOTE</b>
ETSI TS 102 230-1	5.1.1	Phase preceding Terminal power on	NI	Single	A	Pass	02.01.01	1	—
ETSI TS 102 230-1	5.1.2.2	Phase during UICC power on: 1,8 V - 3 V	NI	Single	A	Pass	02.01.01	1	—
ETSI TS 102 230-1	5.1.3.2	Phase during Terminal power off: 1,8 V - 3 V	NI	Single	A	Pass	02.01.01	1	—
ETSI TS 102 230-1	5.1.5.3	Reaction of Terminals supporting voltage classes B and C on recognition of UICCs accepting voltage classes B and C (see note 4)	NI	Single	A	Pass	02.01.01	1	—
ETSI TS 102 230-1	5.1.5.4	Reaction of Terminals supporting voltage classes B and C on recognition of UICCs accepting voltage classes A and B (see note 5)	NI	Single	A	Pass	02.01.01	1	—
ETSI TS 102 230-1	5.1.5.6.2	Reaction of Terminals receiving no ATR, 1.8 V - 3 V	NI	Single	A	Pass	02.01.01	1	—
ETSI TS 102 230-1	5.2.2.3	Electrical tests on contact C1, Test 1: 1,8 V - 3 V	NI	Single	A	Pass	02.01.01	1	—
ETSI TS 102 230-1	5.2.2.4	Electrical tests on contact C1, Test 2: 1,8 V - 3 V	NI	Single	A	Pass	02.01.01	1	—
ETSI TS 102 230-1	5.2.3.2	Electrical tests on contact C2: 1,8 V - 3 V	NI	Single	A	Pass	02.01.01	1	—
ETSI TS 102 230-1	5.2.4.2	Electrical tests on contact C3: 1,8 V - 3 V	NI	Single	A	Pass	02.01.01	1	—
ETSI TS 102 230-1	5.2.5.3	Electrical tests on contact C7, Test 1: 1,8 V - 3 V	NI	Single	A	Pass	02.01.01	1	—

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**4.2.2 Test Results for E-UTRA**

SPEC	TCID	TITLE	BAND_CONDITION	BAND	CATEGORY	RESULT	EUT	LOC	NOTE
3GPP TS 36.124	8.2	Radiated emission (traffic)	FDD 12	All	A	Pass	02.01.01	1	—
3GPP TS 36.124	8.2	Radiated emission (traffic)	FDD 13	All	A	Pass	02.01.01	1	—
3GPP TS 36.124	8.2	Radiated emission (traffic)	FDD 2	All	A	Pass	02.01.01	1	—
3GPP TS 36.124	8.2	Radiated emission (idle)	FDD 2	All	A	Pass	02.01.01	1	—
3GPP TS 36.124	8.2	Radiated emission (traffic)	FDD 5	All	A	Pass	02.01.01	1	—
3GPP TS 36.124	8.2	Radiated emission (traffic)	FDD 66	All	A	Pass	02.01.01	1	—
3GPP TS 36.523-1	9.1.4.2	Identification procedure / IMEI / IMEISV requested	FDD 4; ChBW = 5	Single	A	Pass	02.01.01	1	—

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#### **4.3 Key to Result Codes**

The following codes are used in the table of results.

<b>Code</b>	<b>Meaning</b>
<b>PASS</b>	Test result shows that the requirements of the relevant specification have been met.
<b>FAIL</b>	Test result shows that the requirements of the relevant specification have not been met.
<b>NA</b>	Test is either not required/not applicable in the specified frequency band or is not applicable according to the specific PICS/PIXIT for the equipment under test.

#### **4.4 Key to Tested Bands Code**

The following codes are used in the table of results.

<b>Code</b>	<b>Meaning</b>
<b>Single</b>	Test case is required to be completed in one of the supported frequency bands.
<b>All</b>	Test case is required to be completed in all supported frequency bands.
<b>Network Independent</b>	A test case which is validated without the use of a radio access bearer
<b>Bearer Agnostic</b>	A test case which is independent of the radio access bearer or frequency band used during the test
<b>I-RAT Single</b>	An InterRAT test case that should be tested in a single band combination.
<b>multi</b>	indicates that a band combination is required, e.g. GSM1900/850 MHz bands.
<b>Blank</b>	indicates that the test does not require a bearer



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## **5 Test Equipment**

Conformance testing was performed using test equipment calibrated in accordance with Taiwan Accreditation Foundation accreditation requirements. Calibration, configuration records and equipment details used for conformance testing are available in Annex A.

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## **6 People performing Accredited Testing**

Jay Wang  
Kyle Chuang  
Louis Huang

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## **Annex A – Test Equipment Configuration Information**

The following information details the configuration of the test equipment used in assessing the conformance of this product.

## 1 Test Equipment

Conformance testing was performed using test equipment calibrated in accordance with TAF accreditation requirements. Calibration, configuration records and equipment details used for conformance testing are available for inspection at Sporton International Inc., if required.

### 1.1 TP116 - Anite Conformance Toolset

Test Platform Info		TP116 - Anite Conformance Toolset		
		Conformance Protocol Test System for 2/3/4G Protocol, LTE IMS and SAS.		
Hardware Info	Devices		Firmware Version	
	Anite 9000		A167	
	Devices List			
Manufacturer	Model Info	Description	Serial Number	Calibration Due Date
Anite	Anite 9000 2.5	Anite 9000 Mobile Test Accelerator	TB25294	23-May-25
Anite	Anite 9000 2.5	Anite 9000 Mobile Test Accelerator	TB25194	21-Nov-25
Anite	A9143-60000	DA Combiner	TC21178	08-Apr-26
Dell	OptiPlex7040	Control PC	6YPWMK2	NCR
Software Version	OptipLex790	Operational System		
		Windows 7 Professional SP1		
	Platform Software			Version
	Conformance Toolset (UTRAN)			V49.24
	Conformance Toolset (LTE)			V49.24
	Core Software			V62.0.0.0
	Software Modules			Version
	3G ETSI TC			V49.24
	3G SUPP TC			V49.24
	IMS TC			V49.24
	LTE TC			V49.24

**1.2 TP118/151 - COMPRION UT<sup>3</sup> Platform**

Test Platform Info		TP118/TP151 - COMPRION UT³ Platform -		
Hardware Info	COMPRION UT³ v3.0			
	Equipment List			
Manufacturer	Model Info	Description	Serial Number	Calibration Due Date
COMPRION	UT³ Test System	Control PC	40305	NCR
COMPRION	UT³ Probe	UT³ APR v2.0	45002	16-Dec-25
Anritsu	MD8475A	Signaling Tester	6201357747	25-Apr-25
Software Version	UT³ Test System	Operation System		
		Windows 10 Enterprise LTSC		
	Platform Software			Version
	Device Test Center			R8.5.1/2/3
	Network Simulation Controller			R8.1.0
	Software Modules			Version
	3GPP TS 31.121 (digital)			V2.6
	3GPP TS 31.121 (digital) Stage 3			V2.6
	3GPP TS 31.124 Stage 1			V2.6.1
	3GPP TS 31.124 Stage 2			V2.6
	3GPP TS 31.124 Stage 3			V2.6
	3GPP TS 51.010-1 (analog) Stage 1			V2.3
	3GPP TS 51.010-1 (digital) 850/1900			V2.6
	3GPP TS 51.010-1 (digital) 900/1800			V2.6
	3GPP TS 51.010-4 Stage 1 850/1900			V2.6
	3GPP TS 51.010-4 Stage 1 900/1800			V2.6
	3GPP TS 51.010-4 Stage 2 850/1900			V2.5
	3GPP TS 51.010-4 Stage 2 900/1800			V2.6
	ETSI TS 102 230 (analog) Stage 1			V2.6
	ETSI TS 102 230 (digital)			V2.6
	MD8475A	Operation System		
		Windows 7 Professional SP1		
	Signaling Tester Software			Version
	COMPRION MD8475A 3GPP TS 31.121 USIM USS Set 1			R8.1.0
	COMPRION MD8475A 3GPP TS 31.124 USAT USS Set 1			R8.1.0
	COMPRION MD8475A 3GPP TS 31.124 USAT USS Set 2			R8.1.0
	COMPRION MD8475A 3GPP TS 31.124 USAT USS Set 4			R8.1.0
	COMPRION MD8475A 3GPP TS 51.010-1 SIM SS Set 1			R8.1.0
	COMPRION MD8475A 3GPP TS 51.010-4 SAT SS Set 1			R8.1.0

**1.3 Radiated Spurious Emission — RF8604**

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Due Date	Remark
Signal Analyzer	R&S	FSV3044	101247	10Hz~44GHz	May. 23, 2024	May. 22, 2025	Radiation (05CH02-HY)
Base Station	Agilent	E5515C	MY48364121	GSM/GPRS/WCDMA	Aug. 11, 2024	Aug. 10, 2025	Radiation (05CH02-HY)
Bilog Antenna	Schaffner	CBL6112B	2892	25MHz ~ 2GHz	Oct. 05, 2024	Oct. 04, 2025	Radiation (05CH02-HY)
Preamplifier	Keysight	83017A	MY57280138	1GHz ~ 26.5GHz	Oct. 11, 2024	Oct. 10, 2025	Radiation (05CH02-HY)
Base Station	Anritsu	MT8821C	6201107507	FDD/TDD/NB-IoT/Cat-M1/SEQ	Jan. 21, 2025	Jan. 20, 2026	Radiation (05CH02-HY)
Hygrometer	Testo	608-H1	34893240	N/A	Nov. 01, 2024	Oct. 31, 2025	Radiation (05CH02-HY)
Horn Antenna	ETS-Lindgren	3117	00243526	1GHz~18GHz	May. 15, 2024	May. 14, 2025	Radiation (05CH02-HY)
Preamplifier	Langer	EM330	060364	100kHz~3GHz	Oct. 07, 2024	Oct. 06, 2025	Radiation (05CH02-HY)
Antenna Mast	INN-CO	MM 3000	N/A	1m~2m	N/A	N/A	Radiation (05CH02-HY)
Turn Table	INN-CO	DS2000	520604	Deg 0~ 360	N/A	N/A	Radiation (05CH02-HY)
software	AUDIX	e3 210616 sporton	RK-002309	N/A	N/A	N/A	Radiation (05CH02-HY)
Preamplifier	Jet-Power	JPA00101800-30-10P	1601180001	1GHz~18GHz	Jul. 15, 2024	Jul. 14, 2025	Radiation (05CH02-HY)

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## **Annex B – EUT Photographs**



~ End of Report ~