



CE RADIO TEST REPORT

Equipment : Blues Wireless for Arduino Opta
Brand Name : Blues
Model Name : Blues Wireless for Arduino Opta – Cellular Edition (LTE Cat 1 EMEA)
Applicant : Blues Wireless Inc.
50 Harbor Street, Manchester by the Sea, MA 01944, United States
Manufacturer : Blues Wireless Inc.
50 Harbor Street, Manchester by the Sea, MA 01944, United States
Standard : ETSI EN 301 908-1 V15.2.1 (2023-01)

The product was received on Sep. 18, 2024, and testing was performed from Nov. 07, 2024 to Nov. 08, 2024. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in EN 301 908-1 V15.2.1 (2023-01), and shown compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory
No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	4.2.2	Radiated Emission (UE)	PASS	7.52 dB under the limit at 1435.00 MHz

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Leon Huang

Report Producer: Wilda Wei



1. General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs GSM/WCDMA/LTE and Wi-Fi 2.4GHz 802.11b/g/n.
Antenna Type WWAN: Omni-directional Antenna WLAN: Omni-directional Antenna

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary.

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Facility

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No. : 05CH02-HY

1.4 Applied Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of **ETSI EN 301 908-1 V15.2.1 (2023-01)**.

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

1.5 Description of Test System

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded,1.8m
2.	System Simulator	Agilent	E5515C	N/A	N/A	Unshielded,1.8m
3.	DC Power Supply	GW Instek	GPE2323	N/A	N/A	Unshielded,1.8m

2. Test Configuration of Equipment under Test

2.1 Test Mode

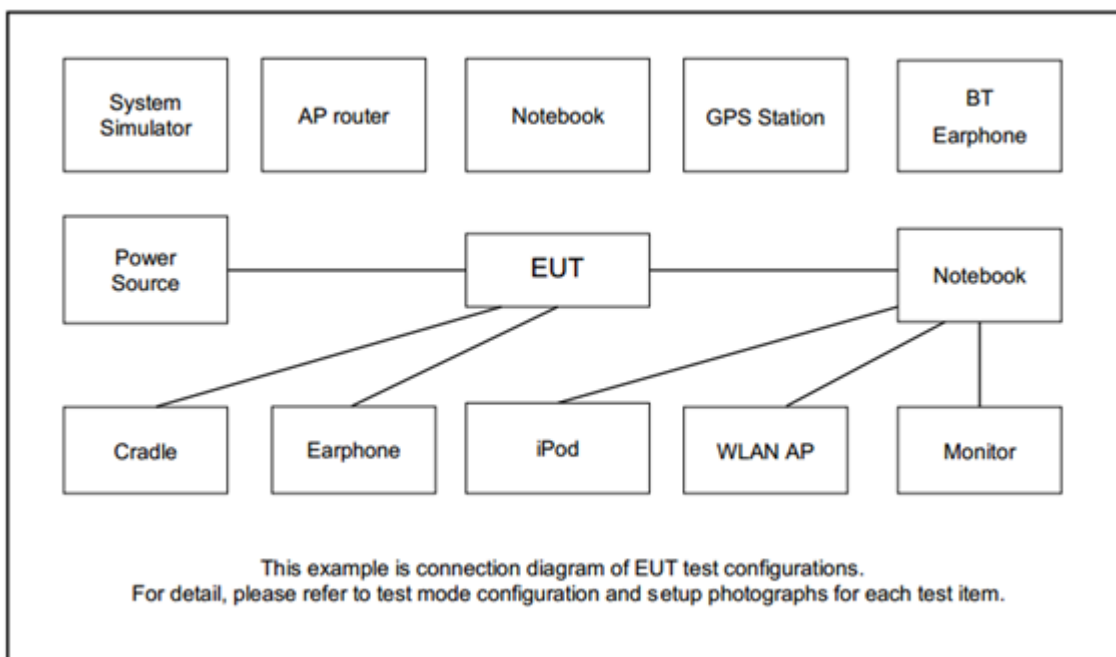
During testing, the interface cables and equipment positions were arranged according to European Standard EN 301 908-1 V15.2.1 (2023-01).

Frequency range of radiation was investigated from 30 MHz to 12.75 GHz.

Note:

1. For Band that the upper frequency edge of the Uplink Band more than 2,69 GHz the frequency range of radiation was investigated from 30 MHz to 5th harmonic of the upper frequency edge of the Uplink.
2. For Band that the upper frequency edge of the Uplink Band more than 5,2 GHz the frequency range of radiation was investigated from 30 MHz to 26GHz.
3. The detailed test modes are shown in appendix A.

2.2 Connection Diagram of Test System



3. Transmitter Parameters

3.1 Radiated Emissions

3.1.1 Limit of Radiated Emissions

SUBCLAUSE 4.2.2.2			
Frequency	Min requirement (e.r.p)/reference bandwidth idle mode	Min requirement (e.r.p)/reference bandwidth traffic mode	Applicability
$30 \text{ MHz} \leq f < 1000 \text{ MHz}$	-57 dBm / 100 kHz	-36 dBm / 100 kHz	All
$1 \text{ GHz} \leq f < 12.75 \text{ GHz}$	-47 dBm / 1 MHz	-30 dBm / 1 MHz	All
$12,75 \text{ GHz} \leq f < 5^{\text{th}}$ harmonic of the upper frequency edge of the Uplink operating band in GHz	-47 dBm / 1 MHz	-30 dBm / 1 MHz	All (note 3)
$12,75 \text{ GHz} < f < 26 \text{ GHz}$	-47 dBm/1 MHz	-30 dBm/1 MHz	All (note 4)
$f_c - 2,5 \times 5 \text{ MHz} < f < f_c + 2,5 \times 5 \text{ MHz}$ (note 1 and note 2)	Not defined	Not defined	UTRA FDD, UTRA TDD, 3,84 Mcps option, cdma2000, spreading rate 3
$f_c - 2,5 \times BW_{\text{Channel}} \text{ MHz} < f < f_c + 2,5 \times BW_{\text{Channel}} \text{ MHz}$	Not defined	Not defined	E-UTRA FDD, E-UTRA TDD, Mobile WiMAX™
$f_c - (1,5 \times BW_{\text{Channel}} + 5) \text{ MHz} < f < f_c + (1,5 \times BW_{\text{Channel}} + 5) \text{ MHz}$ (note 1)	Not defined	Not defined	NR operating in FR1
$f_c - 2,5 \times 10 \text{ MHz} < f < f_c + 2,5 \times 10 \text{ MHz}$ (note 1 and note 2)	Not defined	Not defined	UTRA TDD, 7,68 Mcps option
$f_c - 4 \text{ MHz} < f < f_c + 4 \text{ MHz}$ (note 1 and note 2)	Not defined	Not defined	UTRA TDD, 1,28 Mcps option cdma2000, spreading rate 1
NOTE 1: f_c is the UE transmit centre frequency. NOTE 2: This frequency range is not in the spurious domain, no requirement is then defined for this frequency range. NOTE 3: Applies for Band that the upper frequency edge of the Uplink Band more than 2,69 GHz. NOTE 4: Applies for Band that the upper frequency edge of the Uplink Band more than 5,2 GHz.			



3.1.2 Measuring Instruments

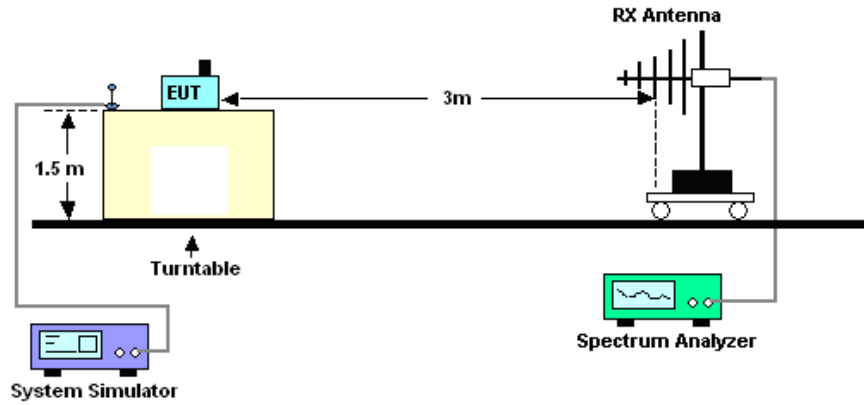
Please refer to the measuring equipment list in the section 4 of this test report.

3.1.3 Test Procedure

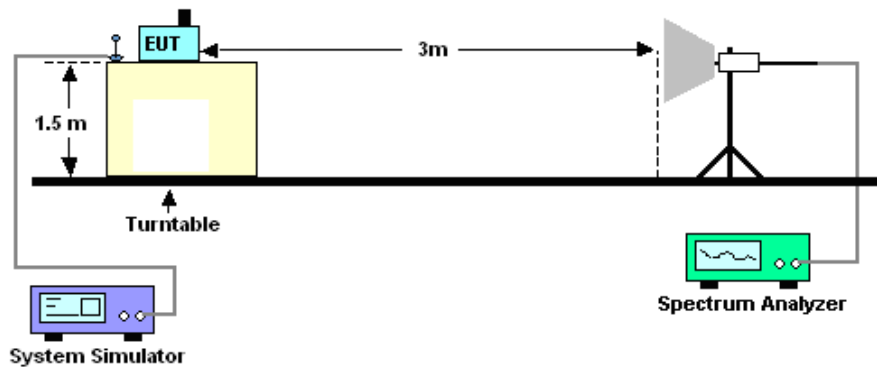
- a. The equipment under test (EUT) is placed on a turntable inside a fully anechoic chamber.
- b. Establish EUT link (dedicated mode) with system simulator (Base Station) and allocate a middle channel with maximum output power.
- c. Compensate the air loss in Base Station, the BS level is set to -75 dBm.
- d. The pre-calibration method has been performed ahead of testing so as to correct the readings from the spectrum analyzer.
- e. All spurious emissions radiated by the EUT are detected by the receive antenna and the test frequency range is from 30 MHz to frequency of regulatory requirements.
- f. Repeat the testing for WCDMA / LTE link and idle mode.

3.1.4 Test Setup

<Below 1GHz>



<Above 1GHz >



3.1.5 Test Results

Please refer to Appendix A.



4. List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Signal Analyzer	R&S	FSV3044	101247	10Hz~44GHz	May 23, 2024	Nov. 07, 2024 Nov. 08, 2024	May 22, 2025	Radiation (05CH02-HY)
Bilog Antenna	Schaffner	CBL6112B	2892	25MHz ~ 2GHz	Oct. 05, 2024	Nov. 07, 2024 Nov. 08, 2024	Oct. 04, 2025	Radiation (05CH02-HY)
Preamplifier	Keysight	83017A	MY57280138	1GHz ~ 26.5GHz	Oct. 11, 2024	Nov. 07, 2024 Nov. 08, 2024	Oct. 10, 2025	Radiation (05CH02-HY)
Hygrometer	Testo	608-H1	34893240	N/A	Nov. 01, 2024	Nov. 07, 2024 Nov. 08, 2024	Oct. 31, 2025	Radiation (05CH02-HY)
Horn Antenna	ESCO	3117	00143261	1GHz~18GHz	Feb. 29, 2024	Nov. 07, 2024 Nov. 08, 2024	Feb. 28, 2025	Radiation (05CH02-HY)
Preamplifier	Langer	EM330	060364	100kHz~3GHz	Oct. 07, 2024	Nov. 07, 2024 Nov. 08, 2024	Oct. 06, 2025	Radiation (05CH02-HY)
Antenna Mast	INN-CO	MM 3000	N/A	1m~2m	N/A	Nov. 07, 2024 Nov. 08, 2024	N/A	Radiation (05CH02-HY)
Turn Table	INN-CO	DS2000	520604	Deg 0~ 360	N/A	Nov. 07, 2024 Nov. 08, 2024	N/A	Radiation (05CH02-HY)
software	AUDIX	e3 210616 sporton	RK-002309	N/A	N/A	Nov. 07, 2024 Nov. 08, 2024	N/A	Radiation (05CH02-HY)
Preamplifier	Jet-Power	JPA00101800- 30-10P	1601180001	1GHz~18GHz	Jul. 15, 2024	Nov. 07, 2024 Nov. 08, 2024	Jul. 14, 2025	Radiation (05CH02-HY)



5. Measurement Uncertainty

Test Item	Frequency Range	Uncertainty
Radiated emissions	30MHz ~ 1GHz	±2.92dB
	1GHz ~ 18GHz	±3.06dB



Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Tom Chiu and Nick Yu	Relative Humidity :	22.1~23.5%
		Temperature :	50.5~55.2°C

A1. Radiated Spurious Emission Test Modes

Antenna	Mode	Test Mode		Channel	Condition	Traffic / Idle
ANT 1+2	Mode 1	WCDMA	Band 8	2788	-	Traffic
ANT 1+2	Mode 2	LTE	Band 1	18300	20M 1RB 0 QPSK	Traffic
ANT 1+2	Mode 3	LTE	Band 7	21100	20M 1RB 0 QPSK	Traffic
ANT 1+2	Mode 4	LTE	Band 20	24300	20M 1RB 0 QPSK	Traffic
ANT 1+2	Mode 5	LTE	Band 28	27460	20M 1RB 0 QPSK	Traffic
ANT 1+2	Mode 6	WCDMA	Band 8	2788	-	idle
ANT 1+2	Mode 7	LTE	Band 1	18300	20M 1RB 0 QPSK	Idle
ANT 1+2	Mode 8	LTE	Band 7	21100	20M 1RB 0 QPSK	Idle
ANT 1+2	Mode 9	LTE	Band 20	24300	20M 1RB 0 QPSK	Idle
ANT 1+2	Mode 10	LTE	Band 28	27460	20M 1RB 0 QPSK	Idle



A2. Summary of each worse mode

Mode	Freq. (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Polarization	Result
1	12513.75	-45.39	-30.00	-15.39	V	Pass
2	2000.00	-44.37	-30.00	-14.37	H	Pass
3	2585.00	-40.79	-30.00	-10.79	V	Pass
4	2510.00	-38.62	-30.00	-8.62	V	Pass
5	1435.00	-37.52	-30.00	-7.52	V	Pass
6	12503.25	-58.95	-47.00	-11.95	V	Pass
7	65.93	-66.12	-57.00	-9.12	H	Pass
8	64.04	-65.75	-57.00	-8.75	H	Pass
9	64.98	-66.87	-57.00	-9.87	H	Pass
10	12550.25	-57.97	-47.00	-10.97	V	Pass



Mode	1																																																																																																																																																																																		
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10	5744.00	-54.58	-24.58	-30.00	-74.43	19.85	VERTICAL																																																																																																																																																																																																												
11	12493.50	-45.46	-15.46	-30.00	-71.40	25.94	VERTICAL																																																																																																																																																																																																												



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4	12550.25	-58.97	-11.97	-47.00	-55.70	-3.27	VERTICAL																																																																																												



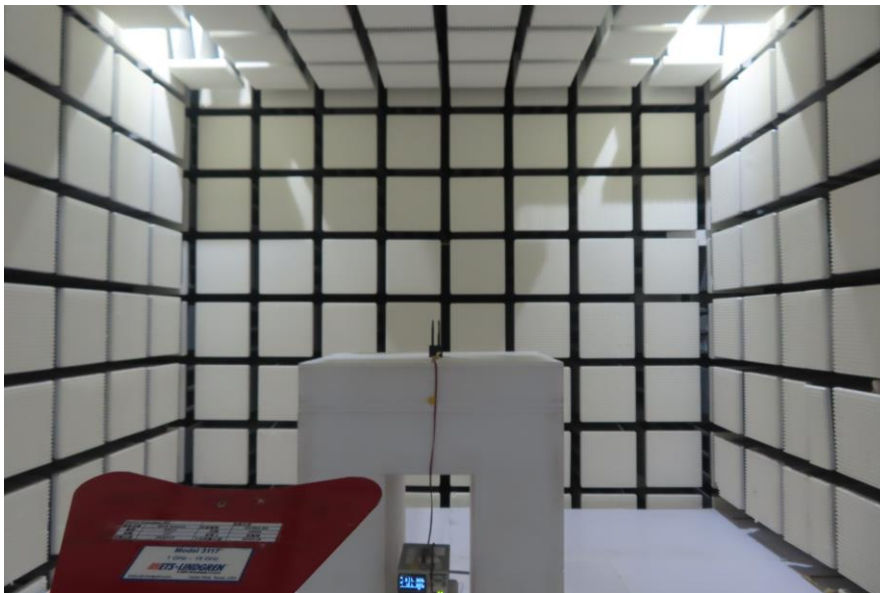
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Appendix B. Photographs of Radiated Emission Test Configuration

25MHz ~ 1GHz



1GHz ~ 18GHz



—————THE END—————