



RF Exposure Evaluation

FOR

Stimare LIMITED

BOLT X2

Test Model: BOLT X2

Prepared for : Stimare LIMITED
Address : 46A Patrick Street, Dun Laoghaire, Co. Dublin A96YH33 Ireland

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.
Address : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei,
Shajing Street, Baoan District, Shenzhen, 518000, China
Tel : (+86)755-82591330
Fax : (+86)755-82591332
Web : www.LCS-cert.com
Mail : webmaster@LCS-cert.com

Date of receipt of test sample : May 15, 2026
Number of tested samples : 2
Sample No. : A260512074-1, A260512074-2
Serial number : Prototype
Date of Test : May 15, 2026 ~ May 28, 2026
Date of Report : May 29, 2026



**RF Exposure Evaluation****Report Reference No.** : **LCSA05136069EB****Date of Issue**..... : May 29, 2026**Testing Laboratory Name**..... : **Shenzhen LCS Compliance Testing Laboratory Ltd.****Address**..... : 101, 201 Bldg A & 301 Bldg C, Juji Industrial Park Yabianxueziwei, Shajing Street, Baoan District, Shenzhen, 518000, China**Testing Location/ Procedure**..... : Full application of Harmonised standards ■
Partial application of Harmonised standards □
Other standard testing method □**Applicant's Name**..... : **Stimare LIMITED****Address**..... : 46A Patrick Street, Dun Laoghaire, Co. Dublin A96YH33 Ireland**Test Specification****Standard**..... : FCC KDB publication 447498 D01 General RF Exposure Guidance v06
FCC CFR 47 part1 1.1307
FCC CFR 47 part2 2.1093**Test Report Form No.**..... : TRF-4-E-215 A/0**TRF Originator**..... : Shenzhen LCS Compliance Testing Laboratory Ltd.**Master TRF**..... : Dated 2011-03**Shenzhen LCS Compliance Testing Laboratory Ltd. All rights reserved.**

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen LCS Compliance Testing Laboratory Ltd. is acknowledged as copyright owner and source of the material. Shenzhen LCS Compliance Testing Laboratory Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test Item Description..... : **BOLT X2****Trade Mark**..... : Stimare LTD**Test Model**..... : BOLT X2**Ratings**..... : Please Refer to Page 6**Result** : PASS**Compiled by:**

Li Huan/ Administrator

Supervised by:

Kevin Huang/ RF Manager

Approved by:

Gavin Liang/ Manager





RF Exposure Evaluation

Test Report No. : LCSA05136069EB	<u>May 29, 2026</u> Date of issue
---	--------------------------------------

Test Model.....	: BOLT X2
EUT.....	: BOLT X2
Applicant.....	: Stimare LIMITED
Address.....	: 46A Patrick Street, Dun Laoghaire, Co. Dublin A96YH33 Ireland
Telephone.....	: /
Fax.....	: /
Manufacturer.....	: Datecs Ltd.
Address.....	: 4 Datecs Street, Sofia 1592, Bulgaria
Telephone.....	: /
Fax.....	: /
Factory.....	: Datecs Ltd.
Address.....	: 4 Datecs Street, Sofia 1592, Bulgaria
Telephone.....	: /
Fax.....	: /

Test Result	PASS
--------------------	-------------

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	May 29, 2026	Initial Issue	---





TABLE OF CONTENTS

Description	Page
1. Product Information.....	6
2. Evaluation method and Limit.....	7
3. Refer Evaluation Method.....	8
4. Conducted Power Results.....	8
5. Manufacturing Tolerance.....	8
6. Evaluation Results.....	8
7. Conclusion.....	9
8. Description of Test Facility.....	9
9. Measurement Uncertainty.....	9





1. Product Information

Product name	:	BOLT X2
Test Model	:	BOLT X2
Ratings	:	Power Supply USB Port Input: 5V $\Rightarrow$ 2.4A COTS Power USB Port Output: 5V $\Rightarrow$ 2.4A Port for docking station Input: 5V $\Rightarrow$ 2.4A Battery: 3.7V,2000mAh
Hardware Version	:	1.xx
Software Version	:	1.0.xx.xx
NFC Operating Frequency	:	13.56MHz
Modulation Type	:	ASK
Antenna Type	:	FPC Antenna
Exposure category	:	General population/uncontrolled environment
EUT Type	:	Production Unit
Device Type	:	Portable Device
Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.		





2. Evaluation method and Limit

According to KDB447498 D01 General RF Exposure Guidance v06 Section 4.3.1 Standalone SAR test exclusion considerations: "Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition, listed below, is satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.²² The minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander (see 5) of section 4.1). To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, typically in the SAR measurement or SAR analysis report, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting is required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for the SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops & tablets etc."

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f} \text{ (GHz)}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where:}$$

- f (GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to f) in section 4.1 is applied to determine SAR test exclusion.

When one of the following test exclusion conditions is satisfied for all combinations of simultaneous transmission configurations, further equipment approval is not required to incorporate transmitter modules in host devices that operate in the mixed mobile and portable host platform exposure conditions. The grantee is responsible for documenting this according to Class I permissive change requirements. Antennas that qualify for standalone SAR test exclusion must apply the estimated standalone SAR to determine simultaneous transmission test exclusion.

- a) The $[\sum \text{ of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / } 1.6 \text{ W/kg}] + [\sum \text{ of MPE ratios}] \leq 1.0$.
- b) The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the $[\sum \text{ of MPE ratios}] \leq 1.0$.
- c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):³³

- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f_{\text{MHz}})]$.
- 2) For test separation distances ≤ 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$.
- 3) SAR measurement procedures are not established below 100 MHz.





3. Refer Evaluation Method

[ANSI C95.1-1999](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

[FCC KDB publication 447498 D01 General RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1307](#): Actions that may have a significant environmental effect, for which Environmental Assessments (EAs) must be prepared.

[FCC CFR 47 part2 2.1093](#): Radiofrequency radiation exposure evaluation: portable devices

4. Conducted Power Results

<NFC>

Mode	Frequency (MHz)	Peak Conducted Output Power (dBm)
ASK	13.56	-54.0

Note:

TX frequency range: 13.56MHz

Device category: Portable device (Distance: 5mm) Max. Field Strength: 40.47dBuV/m @3m

EIRP=E-104.8+20logD=40.47-104.8+20log3=-54.79dBm

Maximum Conducted Output Power: -54.0dBm

Turn-up: -53±1dBm

5. Manufacturing Tolerance

<NFC>

ASK (Peak)	
Frequency (MHz)	13.56
Target (dBm)	-54
Tolerance ±(dB)	1.0

6. Evaluation Results

6.1 Standalone Evaluation (NFC)

Mod e	f (MHz)	Antenna Distance (mm)	Max. Field Strength(dBu V/m @3m)	Max. Conducted Output Power(dBm)	Output power (Max. Turn-up Procedure) (mW)	Limit Pth(mW)	Estimation Standalone SAR (W/kg)	Ratio
ASK	13.56	5	40.47	-54	0.000004	443	0.000000012	0.00000009





<According to BLE modular power (FCC ID: YRW-BT50) >

Band/Mode		Frequency (GHz)	Antenna Distance (mm)	RF output power		SAR Test Exclusion Threshold	Estimation Standalone SAR (W/kg)	SAR Test Exclusion	Ratio
				dBm	mW				
BT LE	GFSK	2.440	5	3.0	1.9953	0.6234<3.0	0.0824	Yes	0.2078
BT 2LE	GFSK	2.440	5	2.0	1.5849	0.4951<3.0	0.0655	Yes	0.1650

7. Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

The sample support one BLE modular and one NFC modular. So need consider simultaneous transmission

$$0.000000009+0.2078=0.207800009<1.0$$

8. Description of Test Facility

NVLAP Accreditation Code is 600167-0.
FCC Designation Number is CN5024.
CAB identifier is CN0071.
CNAS Registration Number is L4595.
Test Firm Registration Number: 254912.

9. Measurement Uncertainty

BLE/NFC:

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	±3.10dB	(1)
	:	30MHz~200MHz	±2.96dB	(1)
	:	200MHz~1000MHz	±3.10dB	(1)
	:	1GHz~26.5GHz	±3.80dB	(1)
	:	26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)
Output power	:	1GHz~40GHz	±0.57dB	(1)
Occupied Channel Bandwidth	:	1GHz~40GHz	±5%	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

.....THE END OF REPORT.....

