FCC Part 1 Subpart I
FCC Part 2 Subpart J

RF EXPOSURE REPORT

FOR

Mobile Payment Terminal with Bluetooth connectivity, Magnetic Strip and Contactless reader

MODEL NUMBER: BLUEPAD-50

FCC ID: YRWBLUEPAD-50

REPORT NUMBER: 11737160-E3V2

ISSUE DATE: 09/28/2017

Prepared for
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DEPARTMENT OF INNOVATIVE TECHNOLOGIES
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Revision History

Rev.	Issue Date	Revisions	Revised By
V1	06/02/2017	Initial Issue	
V2	09/28/2017	Revised report based on reviewer's comments: 1. Updated Sec. 5. 2. Added Sec. 6.	K. Mak

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: DATECS Ltd.
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EUT DESCRIPTION: Mobile payment terminal with Bluetooth connectivity, magnetic strip and Contactless reader.

MODEL: BLUEPAD-50

SERIAL NUMBER: 917900023

DATE TESTED: May 12, 2017 to May 19, 2017

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
FCC PART 1 SUBPART I & PART 2 SUBPART J	Pass

UL Verification Services Inc. calculated the RF Exposure of the above equipment in accordance with the requirements set forth in the above standards, using test results reported in the test report documents referenced below and/or documentation furnished by the applicant. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations of these calculations. The results show that the equipment is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

Approved & Released For
UL Verification Services Inc. By:

PROJECT LEAD
UL Verification Services Inc.

Calculated By:

ENGINEER
UL Verification Services Inc.

2. TEST METHODOLOGY

All calculations were made in accordance with FCC OET Bulletin 65 Edition 97-01, KDB 447498.

3. REFERENCES

All measurements were made as documented in test report UL Verification Services Inc. 33HE0044-SH-A for operation in the 2.4 GHz band.

Output power, Duty cycle and Antenna gain data are excerpted from the applicable test reports.

4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://ts.nist.gov/standards/scopes/2000650.htm.

5. STANDALONE SAR TEST EXCLUSION CONSIDERATIONS

5.1. FCC

SAR test exclusion in accordance with KDB 447498.

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)]·[√f(GHz)] ≤ 3.0, for 1-g SAR and ≤ 7.5 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

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

SAR Exclusion Calculations Table for Portable Devices (separation distance < 20cm)

Tx	Frequency (MHz)	Avg Output power		Separation distances (mm)	Calculated Threshold	Estimated SAR
		dBm	mW			
BT	2480	3.80	2	5	0.6	0.200
RFID	13.56	-56.99	0	5	0.0	0.002

Conclusion:
The computed value is < 3; therefore, the device qualifies for Standalone SAR test exclusion.

6. SIMULTANEOUS TRANSMISSION

6.1. Sum of the SAR for BT and RFID

The estimated SAR for BT is 0.200W/kg
The estimated SAR for RFID is 0.002W/kg

The sum of the SAR for BT and RFID is 0.202W/kg

Conclusion:

Simultaneous transmission SAR measurement (Volume Scan) is not required because the sum of the 1-g SAR is < 1.6 W/kg.

END OF REPORT