

RF Exposure Evaluation Report

Applicant's company	SmartDisplayer Technology Co., Ltd.
Applicant Address	No.2-1, Gongjian Rd., Qidu Dist., Keelung City 20647, Taiwan (R.O.C.)
FCC ID	2ADPT-C0291
Manufacturer's company	SmartDisplayer Technology Co., Ltd.
Manufacturer Address	No.2-1, Gongjian Rd., Qidu Dist., Keelung City 20647, Taiwan (R.O.C.)

Product Name	BLE Card
Model Name	C0291
Ref. Standard(s)	47 CFR FCC Part 2 Subpart J, section 2.1093
Received Date	Apr. 19, 2017
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Submission Type	Original Equipment

Reviewed by:


Jordan Hsiao / Manager



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PHOTOGRAPHS OF EUT v01

Revision History

[illegible]

1 General Description

1.1 EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
Bluetooth	2400-2483.5	2402-2480	LE: DSSS (GFSK)

1.2 Testing Location Information

Testing Location			
<input checked="" type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973	
Test site Designation No. 553509 with FCC.			
<input type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085	
Test site Designation No. TW0006 with FCC.			

2 RF Exposure Evaluation

2.1 Applicable Standard

In accordance with FCC 47 CFR part 2 (2.1093) this device has been defined as a portable device which is defined as a transmitting device designed to be used so that the radiating structure(s) of the device is/are within 20 centimeters of the body of the user.

Portable devices must be evaluated using the specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2003.

2.2 SAR evaluation

- Per FCC KDB 447498 D01 v06, 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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f_{(\text{GHz})}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- $f_{(\text{GHz})}$ 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

Max. Power		Duty Cycle (Note)	Tune-up Max. Power		Test Distance (mm)	Frequency (GHz)	Exclusion Thresholds
(dBm)	(mW)	(%)	(dBm)	(mW)			
-4.39	0.36	62.60	-6.03	0.25	5	2.402	0.1

Note: The transmissions are sporadic and the duty cycle within a 100ms observation time is 62.60%.

- Per FCC KDB 447498 D01 v06 exclusion thresholds is $1.5 < 3$, RF exposure evaluation is not required.