



시험 성적서

TEST REPORT

페이지(page) : (1) / (총(Total) 7)

성적서 번호 Report No.		ICRT-TR-E230498-0A	
신청자 Client	기관명 Name	AISOLUTION CO., LTD	
	주소 Address	28-4, Samyang-ro 29gil, Gangbuk-gu, Seoul, 01194, Republic of Korea	
시험대상품목 Sample description		Bluetooth Barcode Scanner Sled	
모델명 Type designation		KDC480	
정격 Ratings		DC 3.7 V	
시험장소 Place of test		<input checked="" type="checkbox"/> 고정시험(Inside test) <input type="checkbox"/> 현장시험(Field test) 주소지(Address): 112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea	
시험기간 Date of test		20. Feb. 2023 ~ 02. Mar. 2023	
시험방법/항목 Test Method/Item		FCC rule §2.1093	
시험결과 Test Results		Refer to 3. Maximum Permissible Exposure	
확인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성명 Name	(서명) (Signature)	성명 Name
		Seong-Hun, Jeong	Tae-Yang, Yoon
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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E230498-0A	2023.03.08	Initial Issue	All



1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

Applicant	AISOLUTION CO., LTD
Address	28-4, Samyang-ro 29gil, Gangbuk-gu, Seoul, 01194, Republic of Korea
Contact Person	Seoneyong Kim
Telephone No.	82-10-9876-3482
Fax No.	82-07-8260-3731
E-mail	seonyeong.kim@koamtac.com

1.2 Manufacturer Information

Manufacturer	AISOLUTION CO., LTD
Address	28-4, Samyang-ro 29gil, Gangbuk-gu, Seoul, 01194, Republic of Korea

1.3 Test Laboratory Information

Conducted tests were performed at	
Laboratory	ICR Co., Ltd.
Address	112, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Telephone No.	+82-2-6351-9002
Fax No.	+82-2-6351-9007
RRA No.	KR0165
KOLAS No.	KT652



2. Equipment under Test(EUT) Information

2.1 General Information

Product Name	Bluetooth Barcode Scanner Sled
Brand Name	-
Model Name	KDC480
Additional Model Name	KDC485
FCC ID	VH9-KDC480
Power Supply	DC 3.7 V

2.2 Additional Information

Equipment Class	DTS - Digital Transmission System	
Device Type	Stand-alone	
Operating Frequency	2 402 MHz ~ 2 480 MHz	
RF Output Power	LE 1M	-1.41 dBm
	LE 2M	-1.52 dBm
	LE Coded 125K	-1.56 dBm
	LE Coded 500K	-1.51 dBm
Number of Channel	40	
Modulation Type	GFSK	
Antenna Type	Chip Antenna	
Antenna Gain	3.14 dBi	
Antenna Operating Mode	Single antenna exists for each mode	

2.3 Mode of operation during the test

- The EUT is continuous transmission mode during the test with set at Low Channel, Middle Channel, and High Channel. To get a maximum radiated emission levels from the EUT, the EUT was moved throughout the XY, YZ, XZ planes.

2.4 Modifications of EUT

- None

2.5 Modifications of EUT

- The model KDC485 is identical to KDC480, except for model designation, angled scan engine bracket and back case for tilted window.



3. RF Exposure

3.1 RF Exposure calculation.

Kind of EUT	Scanner
Operating Frequency Band	<input type="checkbox"/> WLAN(802.11b/g/n(HT20)): 2 412 MHz ~ 2 462 MHz <input type="checkbox"/> WLAN(802.11n(HT40)): 2 422 MHz ~ 2 452 MHz <input type="checkbox"/> WLAN: 5 180 MHz ~ 5 320 MHz / 5 500 MHz ~ 5 700 MHz <input type="checkbox"/> WLAN: 5 745 MHz ~ 5 825 MHz <input checked="" type="checkbox"/> Bluetooth: 2 402 MHz ~ 2 480 MHz
Exposure Evaluation Applied	<input type="checkbox"/> MPE <input type="checkbox"/> SAR <input checked="" type="checkbox"/> N/A



3.2 Result

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 7.5$$

Conclusion: The SAR test exclusion threshold is less than 7.5, so the device meets the RF Exposure Requirement and excluded SAR Test.

Operating Mode	Frequency (MHz)	Target Power W / tolerance	Max tune up power		Separation distance (mm)	RF exposure	Limit
		(dBm)	(dBm)	(mW)			
Bluetooth LE 1M	2 402	-1.41± 0.5	-0.91	0.8110	5.00	0.25	7.5
Bluetooth LE 2M	2 402	1.52± 0.5	-1.02	0.7907	5.00	0.25	7.5
Bluetooth LE Coded 125K	2 402	1.56± 0.5	-1.06	0.7834	5.00	0.24	7.5
Bluetooth LE Coded 500K	2 402	1.51± 0.5	-1.01	0.7925	5.00	0.25	7.5

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