




시험 성적서

TEST REPORT

페이지(page) : (1) / (총 5)

성적서 번호 Report No.		ICRT-TR-E181667-0A	
신청자 Client	기관명 Name	Sentech Korea Corp	
	주소 Address	21-6, Jimokro75-gil, Paju-Si, Gyeonggi-Do, 10880, Republic of Korea	
시험대상품목 Sample description		Breathalyzer	
모델명 Type designation		iSober S	
정격 Ratings		DC 3 V	
시험기간 Date of test		Nov. 26, 2018 ~ Nov. 28, 2018	
시험방법/항목 Test Method/Item		FCC Part 15 Subpart C §15.247	
시험결과 Test Results		Refer to 3.3 Calculated MPE Safe Distance	
확인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성명 Name	성명 Name	
		Hong-Kyu, Lee (Signature)	Jun-Hui, Lee (Signature)
<p>□ 위 성적서는 고객이 제공한 시료에 대한 시험결과 이며, 용도 이외의 사용은 금합니다. This is certified that the above mentioned products have been tested for the sample provided by customer and forbid the use except for original purpose.</p> <p>□ 위 성적서는 한국인정기구(KOLAS)인정과 관련이 없습니다. The above test report is not related to accreditation by Korea Laboratory Accreditation scheme.</p> <p>□ 위 성적서는 주식회사 아이씨알의 승인 없이는 복제 및 재발급이 금지됩니다. No part of this document may be duplicated or reproduced by any means without the express written permission of the ICR.</p>			
<p>2018. 12. 12</p> <p>주식회사 아이씨알 대표이사</p> <p>The head of INTERNATIONAL CERTIFICATION REGISTRAR</p>			

본 성적서의 진위 확인은 G4B 혹은 ICR 홈페이지에서 가능합니다.

경기도 김포시 양촌읍 황금3로7번길 112

112, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea



Contents

- 1. Applicant & Manufacturer & Test Laboratory Information..... 3
 - 1.1 Applicant information..... 3
 - 1.2 Manufacturer Information 3
 - 1.3 Test Laboratory Information 3
- 2. Equipment under Test(EUT) Information 4
 - 2.1 General Information..... 4
 - 2.2 Additional Information 4
 - 2.3 Mode of operation during the test 4
 - 2.4 Modifications of EUT 4
- 3. Maximum Permissible Exposure 5
 - 3.1 RF Exposure calculation..... 5
 - 3.2 Result 5

Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E181667-0A	12-Dec-2018	Initial Issue	All



1. Applicant & Manufacturer & Test Laboratory Information

1.1 Applicant information

Applicant	Sentech Korea Corp
Address	21-6, Jimokro75-gil, Paju-Si, Gyeonggi-Do, 10880, Republic of Korea
Contact Person	JunNo Lee
Telephone No.	+82-10-5028-0706
Fax No.	+82-31-8071-4411
E-mail	jnlee@sentechkorea.com

1.2 Manufacturer Information

Manufacturer	Sentech Korea Corp
Address	21-6, Jimokro75-gil, Paju-Si, Gyeonggi-Do, 10880, 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	Breathanalyzer
Brand Name	-
Model Name	iSober S
Additional Model Name	Dingo E-030, iScreen, Promiler, AC-018, ISOBER 70 PRO
Hardware Version	-
Software Version	-
Power Supply	DC 3 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	-0.03 dBm
Number of Channel	40
Modulation Type	GFSK
Antenna Type	Integral Antenna (Chip Antenna)
Antenna Gain	0.5 dBi
Antenna Operating Mode	Single Antenna Equipment with only one antenna
List of Each Oscillator or Crystal Frequency	8 MHz

2.3 Mode of operation during the test

- The EUT is continuous transmission mode during the test

2.4 Modifications of EUT

- None



3. Maximum Permissible Exposure

3.1 RF Exposure calculation

According to the FCC rule §1.1310, the limit for General Population/Uncontrolled exposure is 1 mW/cm² for the device operating 1 500 MHz ~ 100 000 MHz.

Kind of EUT	Breathalyzer
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
Max. Output Power	-0.03 dBm
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

$$[(\text{Max. Power of channel, including tune-up tolerance, mW}) / (\text{Min. test separation distance, mm})] \times [\sqrt{f(\text{GHz})}] < 3$$

$$= (1.11/5) \times \sqrt{2.480} = 0.35$$

Conclusion: The SAR test exclusion threshold is less than 3, 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
		(dBm)	(dBm)	(mW)		
Bluetooth LE	2 480	-0.03 ± 0.5	0.47	1.11	5	0.35