

ELECTROMAGNETIC EMISSION COMPLIANCE REPORT FOR LOW-POWER, NON-LICENSED TRANSMITTER

Test Report No. : W177R-D017

AGR No. : A176A-371

Applicant : Life Science Technology Inc.

Address : Suite B1207, Gangseo Hangang Xi Tower, 401 Yangcheon-ro, Gangseo-gu, Seoul,
South Korea

Manufacturer : Life Science Technology Inc.

Address : Suite B1207, Gangseo Hangang Xi Tower, 401 Yangcheon-ro, Gangseo-gu, Seoul,
South Korea

Type of Equipment : FeMon

FCC ID. : 2AMMM-LST-TS100

Model Name : TS100

Serial number : N/A

Total page of Report : 6 pages (including this page)

Date of Incoming : June 22, 2017

Date of issue : July 17, 2017

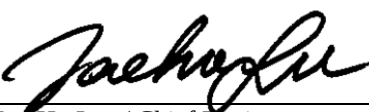
SUMMARY

The equipment complies with the regulation; **FCC PART 15 SUBPART C Section 15.247**

This test report only contains the result of a single test of the sample supplied for the examination.

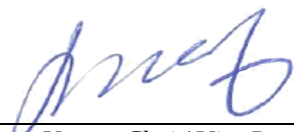
It is not a generally valid assessment of the features of the respective products of the mass-production.

Reviewed by:



Jae-Ho Lee / Chief Engineer
ONETECH Corp.

Approved by:



Keun-Young, Choi / Vice President
ONETECH Corp.

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Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
W177R-D017	July 17, 2017	Initial Issue	All

1. VERIFICATION OF COMPLIANCE

Applicant : Life Science Technology Inc.

Address : Suite B1207, Gangseo Hangang Xi Tower, 401 Yangcheon-ro, Gangseo-gu, Seoul, South Korea

Contact Person : JaeWoo Jun / Senior Engineer

Telephone No. : +82-70-8620-8021

FCC ID : 2AMMM-LST-TS100

Model Name : TS100

Brand Name : -

Serial Number : N/A

Date : July 17, 2017

EQUIPMENT CLASS	DTS – DIGITAL TRNSMISSION SYSTEM
E.U.T. DESCRIPTION	FeMon
KIND OD EQUIPMENT	Modular Transmitter
THIS REPORT CONCERNS	Original Grant
MEASUREMENT PROCEDURES	ANSI C63.10: 2013
TYPE OF EQUIPMENT TESTED	Pre-Production
KIND OF EQUIPMENT AUTHORIZATION REQUESTED	Certification
EQUIPMENT WILL BE OPERATED UNDER FCC RULES PART(S)	FCC PART 15 SUBPART C Section 15.247
Modifications on the Equipment to Achieve Compliance	None
Final Test was Conducted On	3 m, Semi Anechoic Chamber

-. The above equipment was tested by ONETECH Corp. for compliance with the requirement set forth in the FCC Rules and Regulations. This said equipment in the configuration described in this report, shows the maximum emission levels emanating from equipment are within the compliance requirements.

2. GENERAL INFORMATION

2.1 Product Description

The Life Science Technology Inc., Model TS100 (referred to as the EUT in this report) is a FeMon. The product specification described herein was obtained from product data sheet or user's manual.

Device Type	FeMon
Operating Frequency	2 402 MHz ~ 2 480 MHz
RF Output Power	-8.88 dBm
Number of Channel	40 Channel
Modulation Type	GFSK
Antenna Type	Chip Antenna
Antenna Gain	0.5 dBi
List of each Osc. or crystal Freq.(Freq. >= 1 MHz)	16 MHz, 32.768 kHz
Rated Supply Voltage	DC 3.0 V

2.2 Alternative type(s)/model(s); also covered by this test report.

-, None

3. EUT MODIFICATIONS

-, None

4. MAXIMUM PERMISSIBLE EXPOSURE

4.1 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 ~ 100 000 MHz.

4.2 EUT Description

Kind of EUT	FeMon
Operating Frequency Band	☐ Wireless Microphone: 494.000 MHz ~ 501.000 MHz and 498.200 MHz ~ 505.200 MHz ☐ WLAN: 2 412 MHz ~ 2 462 MHz ☐ WLAN: 5 180 MHz ~ 5 240 MHz ☐ WLAN: 5 745 MHz ~ 5 825 MHz ☐ Bluetooth: 2 402 MHz ~ 2 480 MHz ☒ Bluetooth BLE: 2 402 MHz ~ 2 480 MHz
MAX. RF OUTPUT POWER	-8.88 dBm
Antenna Gain	0.5 dBi
Exposure Evaluation Applied	☐ MPE ☐ SAR ☒ N/A

4.3 Test Result

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

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

$$= (0.13/5) \times \sqrt{2.440} = 1.28$$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

	Frequency (MHz)	Target Power W/tolerance (dBm)	Max tune up power (dBm)	Max tune up power (mW)	Separation distance (mm)	RF exposure
BLE (GFSK)	2 440	-8.38 ± 0.5	-8.88	0.13	5	1.28