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# Health Test Report

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Report No.: AGC16823250801AH01

**PRODUCT DESIGNATION** : Ruuvi Air  
**BRAND NAME** : Ruuvi  
**MODEL NAME** : Ruuvi Air  
**APPLICANT** : Ruuvi Innovations Ltd.  
**DATE OF ISSUE** : Sep. 08, 2025  
**STANDARD(S)** : AS/NZS 2772.2:2016+A1:2018  
**REPORT VERSION** : V1.0

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**REPORT REVISE RECORD**

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Sep. 08, 2025	Valid	Initial release

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## 1. GENERAL INFORMATION

<b>Applicant</b>	Ruuvii Innovations Ltd.
<b>Address</b>	Hameenkatu 10 B 132, RIIHIMAKI 11100, Finland
<b>Manufacturer</b>	Ruuvii Innovations Ltd.
<b>Address</b>	Hameenkatu 10 B 132, RIIHIMAKI 11100, Finland
<b>Factory</b>	Ruuvii Innovations Ltd.
<b>Address</b>	Hameenkatu 10 B 132, RIIHIMAKI 11100, Finland
<b>Product Designation</b>	Ruuvii Air
<b>Brand Name</b>	Ruuvii
<b>Test Model</b>	Ruuvii Air
<b>Series Model</b>	N/A
<b>Difference Description</b>	N/A
<b>Date of receipt of test item</b>	Aug. 15, 2025
<b>Date of Test</b>	Aug. 15, 2025 to Sep. 05, 2025
<b>Test Result</b>	Pass

Note: The test results of this report relate only to the tested sample identified in this report.

Prepared By		
	Thea Huang (Project Engineer)	Sep. 08, 2025
Reviewed By		
	Bibo Zhang (Reviewer)	Sep. 08, 2025
Approved By		
	Angela Li (Authorized Officer)	Sep. 08, 2025

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## 2. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

Product Designation	Ruuvi Air
Test Model	Ruuvi Air
Hardware Version	V1.0
Software Version	V1.0
Power Supply	DC 5V
Bluetooth Low Energy Technical Parameters	
Operating Frequency	2402MHz-2480MHz
Modulation Type	<input checked="" type="checkbox"/> LE_GFSK_125kbps <input checked="" type="checkbox"/> LE_GFSK_1Mbps <input checked="" type="checkbox"/> LE_GFSK_2Mbps
Number of channels	40 Channels
Antenna Designation	PCB Antenna
Antenna Gain	2.41dBi
Short Range Radio Technical Parameters	
Permitted Range of Operating Frequency	13.06-14.06MHz
Operation Frequency	13.56MHz
Modulation Type	ASK
Antenna Designation	Coil Antenna
Antenna Gain	0dBi

**Note:** For more details, please refer to the user's manual of the EUT.

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### 3. RF EXPOSURE MEASUREMENT

#### 3.1 INTRODUCTION

This International Standard applies to electronic and electrical equipment for which no dedicated product- or product family standard regarding human exposure to electromagnetic fields applies.

This generic standard applies to electronic and electrical apparatus for which no dedicated product- or product family standard regarding human exposure to electromagnetic fields applies.

The frequency range covered is 3kHz to 300 GHz.

The object of this generic standard is to provide assessment methods and criteria to evaluate such equipment against basic restrictions or reference levels on exposure of the general public related to electric, magnetic, electromagnetic fields and induced and contact current.

**NOTE:** This standard is intended to cover both intentional and non-intentional radiators. If the equipment complies with the requirements in another relevant standard, e.g. EN 62479 covering low power equipment, then the requirements of this standard (IEC 62311) are considered to be met and the application of this standard to that equipment is not necessary.

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### 3.2 TEST LIMIT

#### LOOK-UP TABLE OF REFERENCE LEVELS FOR GENERAL PUBLIC EXPOSURE TO ELECTRIC AND MAGNETIC FIELDS AS SPECIFIED IN TABLE 6 AND TABLE 7

Frequency		E-field strength (V/m rms)		H-field strength (A/m rms)		Equivalent plane wave power flux density $S_{eq}$ (W/m <sup>2</sup> )	
		Time Average from Table 6	Instantaneous from Table 7	Time Average from Table 6	Instantaneous from Table 7	Time Average from Table 6	Instantaneous from Table 7
3	KHz	—	86.8	—	4.86	—	—
10	KHz	—	86.8	—	4.86	—	—
65	KHz	—	86.8	—	4.86	—	—
70	KHz	—	86.8	—	4.86	—	—
80	KHz	—	86.8	—	4.86	—	—
90	KHz	—	86.8	—	4.86	—	—
100	KHz	86.8	86.8	4.86	4.86	—	—
150	KHz	86.8	99.5	4.86	4.86	—	—
200	KHz	86.8	118	4.86	4.86	—	—
250	KHz	86.8	146	3.65	4.62	—	—
300	KHz	86.8	198	2.43	4.30	—	—
400	KHz	86.8	245	1.82	4.08	—	—
500	KHz	86.8	290	1.46	3.93	—	—
600	KHz	86.8	333	1.22	3.80	—	—
700	KHz	86.8	373	1.04	3.70	—	—
800	KHz	86.8	413	0.911	3.61	—	—
900	KHz	86.8	451	0.810	3.54	—	—
1	MHz	86.8	488	0.729	3.47	—	—
1.5	MHz	70.9	540	0.486	3.23	—	—
2	MHz	61.4	580	0.365	3.07	—	—
3	MHz	50.1	642	0.243	2.85	—	—
4	MHz	43.4	690	0.182	2.71	—	—
5	MHz	38.8	730	0.146	2.61	—	—
6	MHz	35.4	764	0.122	2.52	—	—
7	MHz	32.8	794	0.104	2.45	—	—
8	MHz	30.7	821	0.0911	2.40	—	—
9	MHz	28.9	845	0.0810	2.35	—	—
10	MHz	27.4	868	0.0729	2.30	2.00	2000
100	MHz	27.4	868	0.0729	2.30	2.00	2000
400	MHz	27.4	868	0.0728	2.30	2.00	2000
500	MHz	30.6	970	0.0814	2.57	2.49	2496
600	MHz	33.6	1063	0.0892	2.82	2.99	2995
700	MHz	36.2	1148	0.0963	3.04	3.49	3494
800	MHz	38.7	1228	0.103	3.25	3.99	3993
900	MHz	41.1	1302	0.109	3.45	4.49	4492
1	GHz	43.3	1372	0.115	3.64	4.99	4991
1.5	GHz	53.1	1681	0.141	4.45	7.48	7487
1.8	GHz	58.1	1841	0.154	4.88	8.98	8984
2	GHz	61.4	1941	0.163	5.15	10.0	10000
10	GHz	61.4	1941	0.163	5.15	10.0	10000
100	GHz	61.4	1941	0.163	5.15	10.0	10000
300	GHz	61.4	1941	0.163	5.15	10.0	10000

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#### 4. CLASSIFICATION OF THE ASSESSMENT METHODS

According to User manual, the antenna of the product is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. So, this product under normal use is located on electromagnetic far field between the human body.

Far Field Calculation Formula

$$E = \eta_0 H = \frac{\sqrt{30PG(\theta, \phi)}}{r}$$

$G$  = antenna gain relative to an isotropic antenna  
 $\theta, \phi$  = elevation and azimuth angles to point of investigation  
 $r$  = distance from observation point to the antenna  
 $\eta_0$  = Characteristic impedance of free space

The Pointing vector gives the power density:

$$S = E \times H = \frac{E^2}{\eta} = \frac{P}{4\pi r^2}$$

For the Simultaneous transmission may use below similar formular

$$\sum_i \frac{S_i}{S_{Limit, i}} \leq 1$$

#### 5. EUT OPERATION CONDITION

Set the EUT to transmit at lowest, middle and highest channel individually at maximum power.

**Note:** only worst case recorded in the test report.



## 6. TEST RESULT

Operating Mode	Frequency (MHz)	Max Tune up Power (dBm)	Antenna Gain (Linera) (dBi)	Max Tune up Power (W)	E-Field Strength (V/m)	E-Field Limit (V/m)	Result
BLE-2Mbps	2480	-0.11	1.74	0.00097499	1.128	61.4	Pass
LE125K	2480	-2.57	1	0.00055335	0.644	61.4	Pass

### Note:

Note: The maximum output power refers to the project report number: AGC16823250801AR02.

## 7. CONCLUSION

Remark: EUT meets the basic requirements in the standard.

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2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

**-----End of Report-----**

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