

## EMF ASSESSMENT REPORT

FCC Rules: Code of Federal Regulations (CFR) no. 47  
RF Exposure

and

INDUSTRY CANADA

Spectrum Management and Telecommunications Radio Standards Specification

RSS-102:2023 § 6.3

Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus  
(All Frequency Bands)

|                                                                                                                                          |                                                   |             |   |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------------|---|
| <b>Report Number.</b> .....                                                                                                              | AR24-0103138-02                                   | <b>Rev.</b> | 1 |
| <b>Date of issue</b> .....                                                                                                               | 2026-02-05                                        |             |   |
| <b>Total number of pages</b> .....                                                                                                       | 12                                                |             |   |
| <b>Name of Testing Laboratory preparing the Report</b> .....                                                                             |                                                   |             |   |
| IMQ S.p.A.                                                                                                                               |                                                   |             |   |
| <b>Applicant's name</b> .....                                                                                                            |                                                   |             |   |
| QUICK S.p.A.                                                                                                                             |                                                   |             |   |
| <b>Address</b> .....                                                                                                                     |                                                   |             |   |
| Via Piangipane, 120/A – IT-48124 Piangipane (RA)                                                                                         |                                                   |             |   |
| <b>Test specification:</b>                                                                                                               |                                                   |             |   |
| <b>Standards</b> .....                                                                                                                   | 47 CFR Part 15 and 447498 D01 V06<br>RSS-102:2023 |             |   |
| <b>Test Report Form No.</b> .....                                                                                                        |                                                   |             |   |
| TRF 3609/7                                                                                                                               |                                                   |             |   |
| <b>Test Report Form(s) Originator</b> .....                                                                                              |                                                   |             |   |
| IMQ S.p.A.                                                                                                                               |                                                   |             |   |
| <b>Master TRF</b> .....                                                                                                                  |                                                   |             |   |
| Dated 2024-09-10                                                                                                                         |                                                   |             |   |
| <b>Test item description</b> .....                                                                                                       |                                                   |             |   |
| LPD transmitter of RRC radio system                                                                                                      |                                                   |             |   |
| <b>Trademark or brand name</b> .....                                                                                                     |                                                   |             |   |
| QUICK                                                                                                                                    |                                                   |             |   |
| <b>Manufacturer</b> .....                                                                                                                |                                                   |             |   |
| QUICK S.p.A.                                                                                                                             |                                                   |             |   |
| <b>Model/Type reference(s)</b> .....                                                                                                     |                                                   |             |   |
| H912+                                                                                                                                    |                                                   |             |   |
| <b>Ratings</b> .....                                                                                                                     |                                                   |             |   |
| 4.5 V DC by AAA type (alkaline or NiMH rechargeable battery)                                                                             |                                                   |             |   |
| <b>FCC ID</b> .....                                                                                                                      |                                                   |             |   |
| 02W-THP                                                                                                                                  |                                                   |             |   |
| <b>IC CODE</b> .....                                                                                                                     |                                                   |             |   |
| 10492A-THP                                                                                                                               |                                                   |             |   |
| <b>General disclaimer:</b>                                                                                                               |                                                   |             |   |
| The results of tests and checks reported in this Test Report refer exclusively to the samples tested and described in the Report itself. |                                                   |             |   |
| This Report shall not be reproduced partially the written approval of IMQ S.p.A.                                                         |                                                   |             |   |
| The authenticity of this Test Report and its contents can be verified by contacting IMQ S.p.A., responsible for this Test Report.        |                                                   |             |   |

|                                                                   |                                                                                                                            |
|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Responsible Assessment Laboratory and testing location(s):</b> |                                                                                                                            |
| <input checked="" type="checkbox"/> <b>Assessment Laboratory:</b> | IMQ S.p.A.                                                                                                                 |
| <b>Assessment location/ address..... :</b>                        | Viale Lombardia, 20 – IT-20021 Bollate (MI)                                                                                |
| <b>Assessed by (name, function, signature) .. :</b>               | Robertino Torri<br>[Laboratory deputy]  |

**List of Attachments (including a total number of pages in each attachment):**

/

**Summary of testing**

**Tests performed (name of test and test clause):**

- 3.1 SAR test exclusion
- 3.2 RF exposure evaluation

**Testing location:**

Viale Lombardia, 20 – IT-20021 Bollate (MI)

| <b>Possible test case verdicts:</b>                                                                                                                                                                                                       |             |                                                                                                                                                                                                                                                                                                                                                              |             |          |                      |               |             |                  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|----------------------|---------------|-------------|------------------|
| - test case does not apply to the test item. : N/A (Not Applicable)                                                                                                                                                                       |             |                                                                                                                                                                                                                                                                                                                                                              |             |          |                      |               |             |                  |
| - test item does meet the requirement ..... : P (Pass)                                                                                                                                                                                    |             |                                                                                                                                                                                                                                                                                                                                                              |             |          |                      |               |             |                  |
| - test item does not meet the requirement. : F (Fail)                                                                                                                                                                                     |             |                                                                                                                                                                                                                                                                                                                                                              |             |          |                      |               |             |                  |
| <b>IMQ reference samples</b>                                                                                                                                                                                                              |             | <b>BEM 117192</b><br>(Item(s) sampled and sent by applicant)                                                                                                                                                                                                                                                                                                 |             |          |                      |               |             |                  |
| <b>Date of receipt of test item .....</b>                                                                                                                                                                                                 |             | <b>2024-04-23</b>                                                                                                                                                                                                                                                                                                                                            |             |          |                      |               |             |                  |
| <b>Date of acceptance of test item .....</b>                                                                                                                                                                                              |             | 2024-04-23                                                                                                                                                                                                                                                                                                                                                   |             |          |                      |               |             |                  |
| <b>Date (s) of performance of tests .....</b>                                                                                                                                                                                             |             | 2024-07-22 to 2024-07-24                                                                                                                                                                                                                                                                                                                                     |             |          |                      |               |             |                  |
| <b>General remarks:</b>                                                                                                                                                                                                                   |             |                                                                                                                                                                                                                                                                                                                                                              |             |          |                      |               |             |                  |
| Throughout this report a <input type="checkbox"/> comma / <input checked="" type="checkbox"/> point is used as the decimal separator.<br>Throughout this report, the term "Test item" is used over terms such as Test object, EUT or DUT. |             |                                                                                                                                                                                                                                                                                                                                                              |             |          |                      |               |             |                  |
| <b>Name and address of factory (ies):</b>                                                                                                                                                                                                 |             | /                                                                                                                                                                                                                                                                                                                                                            |             |          |                      |               |             |                  |
| <b>General product information (GPI) and other remarks:</b>                                                                                                                                                                               |             |                                                                                                                                                                                                                                                                                                                                                              |             |          |                      |               |             |                  |
| The ability or reliability of this product to perform its intended function in a particular application has not been investigated.                                                                                                        |             |                                                                                                                                                                                                                                                                                                                                                              |             |          |                      |               |             |                  |
| The test results apply to the sample as received.                                                                                                                                                                                         |             |                                                                                                                                                                                                                                                                                                                                                              |             |          |                      |               |             |                  |
| All information relating to the details of the equipment under test at the § 1 of this document was provided by the applicant.                                                                                                            |             |                                                                                                                                                                                                                                                                                                                                                              |             |          |                      |               |             |                  |
| IMQ declines any responsibility derived from missing or wrong information provided aside by the applicant.                                                                                                                                |             |                                                                                                                                                                                                                                                                                                                                                              |             |          |                      |               |             |                  |
| <b>Environmental reference conditions .....</b>                                                                                                                                                                                           |             | The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment.<br>The climatic conditions during the tests were within the following limits:                                                                                                                              |             |          |                      |               |             |                  |
|                                                                                                                                                                                                                                           |             | <table border="1"> <thead> <tr> <th>Temperature</th> <th>Humidity</th> <th>Atmospheric pressure</th> </tr> </thead> <tbody> <tr> <td>15 °C – 35 °C</td> <td>30 % - 60 %</td> <td>86 kPa – 106 kPa</td> </tr> </tbody> </table>                                                                                                                               | Temperature | Humidity | Atmospheric pressure | 15 °C – 35 °C | 30 % - 60 % | 86 kPa – 106 kPa |
| Temperature                                                                                                                                                                                                                               | Humidity    | Atmospheric pressure                                                                                                                                                                                                                                                                                                                                         |             |          |                      |               |             |                  |
| 15 °C – 35 °C                                                                                                                                                                                                                             | 30 % - 60 % | 86 kPa – 106 kPa                                                                                                                                                                                                                                                                                                                                             |             |          |                      |               |             |                  |
|                                                                                                                                                                                                                                           |             | If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.<br>The laboratory is monitored by a continuous environmental conditions measurements system.<br>Temperature, humidity and pressure data are recorded on a weekly basis and stored in local archive. |             |          |                      |               |             |                  |

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## 1 General description of test item

Note: The information in this section has been provided by the applicant.

### 1.1 Test item(s)

*Include all modules, variants and configuration parts which are to be considered test items.*

| No. | Test item name | Unique identification / type / description | Extent of test |
|-----|----------------|--------------------------------------------|----------------|
| 1   | H912+          | LPD transmitter                            | Tested in full |
| 2   | H902+          | As P904+                                   | Extent         |
| 3   | H904+          | As P904+                                   | Extent         |
| 4   | HT94+          | As P904+                                   | Extent         |
| 5   | HT98+          | As P904+                                   | Extent         |

#### Engineering statement for untested variants / product family:

The transmitters have the same electronic board (the same PCB and components) but the number of the buttons and their disposition can change. The firmware is the same and factory settable for the five different types of use.

Supplementary information: /

### 1.2 Port(s)

| No. | Port Name | Type                                                         | Cable                 |                                     |                          |
|-----|-----------|--------------------------------------------------------------|-----------------------|-------------------------------------|--------------------------|
|     |           |                                                              | Specified length in m | Attached during test                | Shielded                 |
| 1   | Enclosure | Plastic enclosure                                            | -                     | -                                   | -                        |
| 2   | Mains IN  | 4.5 V DC by AAA type (alkaline or NiMH rechargeable battery) | -                     | <input type="checkbox"/>            | <input type="checkbox"/> |
| 3   | Antenna   | Integrated (strip line on PCB)                               | -                     | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Supplementary information: /

### 1.3 Power rating(s)

|                         |                                     |                                                  |
|-------------------------|-------------------------------------|--------------------------------------------------|
| Power supply type ..... | <input type="checkbox"/>            | AC, 1/2/3/ phase with Neutral & Protective Earth |
|                         | <input type="checkbox"/>            | DC power supply by dedicated BUS                 |
|                         | <input checked="" type="checkbox"/> | Battery                                          |
| Rated voltage .....     | 4.5 V DC                            |                                                  |
| Rated frequency .....   | /                                   |                                                  |
| Rated power .....       | /                                   |                                                  |

#### 1.4 Additional parameters

|                         |                                     |                                |
|-------------------------|-------------------------------------|--------------------------------|
| Protection class .....  | /                                   |                                |
| Clock frequencies ..... | /                                   |                                |
| Other parameters .....  | /                                   |                                |
| Software version .....  | /                                   |                                |
| Hardware version .....  | /                                   |                                |
| Mounting position ..... | <input type="checkbox"/>            | Table-top equipment            |
|                         | <input type="checkbox"/>            | Wall/Ceiling mounted equipment |
|                         | <input type="checkbox"/>            | Floor standing equipment       |
|                         | <input checked="" type="checkbox"/> | Hand-held equipment            |
|                         | <input type="checkbox"/>            | Vehicular                      |
|                         | <input type="checkbox"/>            | Other: /                       |

#### 1.5 Radio parameters

|                             |                       |                                              |                                    |
|-----------------------------|-----------------------|----------------------------------------------|------------------------------------|
| Radio module model .....    | 32001550US (by MIPOT) |                                              |                                    |
| Operating frequencies ..... | 913.7 MHz             |                                              |                                    |
| Antenna parameters .....    | Type                  | <input checked="" type="checkbox"/> Integral | <input type="checkbox"/> Dedicated |
|                             | Model                 | /                                            |                                    |
|                             | Gain                  | /                                            |                                    |
| Transmission protocol ..... | /                     |                                              |                                    |

#### 1.6 Electromagnetically relevant components

| Component                    | No. | Manufacturer | Model      |
|------------------------------|-----|--------------|------------|
| PCB board                    | 1   | QUICK        | RCC H912   |
| Radio module                 | 1   | MIPOT        | 32001550US |
| Supplementary information: / |     |              |            |

#### 1.7 Documents as provided by the applicant

| No.                          | Document ref. | Type and description | Doc date |
|------------------------------|---------------|----------------------|----------|
| 1                            | /             | /                    | /        |
| Supplementary information: / |               |                      |          |

## 2 Verdict summary section

Rationale for verdicts, including N/A (Not Applicable), are listed on each test sheet.

| Requirements                 |                         |                                            |          |
|------------------------------|-------------------------|--------------------------------------------|----------|
| Clause                       | Requirement – Test case | Basic standard                             | Verdict  |
| 3.1                          | SAR Test Exclusion      | § 47 CFR 2.1093 (c) (1) and 447498 D01 v06 | <b>P</b> |
| 3.2                          | RF exposure evaluation  | RSS-102:2023 § 6.3                         | <b>P</b> |
| Supplementary information: / |                         |                                            |          |

### 3 Results of RF Exposure Evaluation

#### 3.1 SAR Test Exclusion

| Test requirement                                                                                                                                                                                                           |                                                                                                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines § 1.1307(b)(1). |                                                                                                                                                                                                                        |
| EUT classification (fixed, mobile or portable devices)                                                                                                                                                                     | Portable according to § 2.1093(b) of this Chapter                                                                                                                                                                      |
| LIMITS                                                                                                                                                                                                                     | According to § 2.1093 of this Chapter, by means of the following guidelines: OET Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies (447498 D01 General RF Exposure Guidance v06) |
| Testing dates                                                                                                                                                                                                              | 2024-09-05                                                                                                                                                                                                             |

#### SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

447498 D01 General RF Exposure Guidance v06 – Appendix A

| MHz  | 5   | 10  | 15  | 20  | 25  | mm                                |
|------|-----|-----|-----|-----|-----|-----------------------------------|
| 150  | 39  | 77  | 116 | 155 | 194 | SAR Test Exclusion Threshold (mW) |
| 300  | 27  | 55  | 82  | 110 | 137 |                                   |
| 450  | 22  | 45  | 67  | 89  | 112 |                                   |
| 835  | 16  | 33  | 49  | 66  | 82  |                                   |
| 900  | 16  | 32  | 47  | 63  | 79  |                                   |
| 1500 | 12  | 24  | 37  | 49  | 61  |                                   |
| 1900 | 11  | 22  | 33  | 44  | 54  |                                   |
| 2450 | 10  | 19  | 29  | 38  | 48  |                                   |
| 3600 | 8   | 16  | 24  | 32  | 40  |                                   |
| 5200 | 7   | 13  | 20  | 26  | 33  |                                   |
| 5400 | 6   | 13  | 19  | 26  | 32  |                                   |
| 5800 | 6   | 12  | 19  | 25  | 31  |                                   |
| MHz  | 30  | 35  | 40  | 45  | 50  | mm                                |
| 150  | 232 | 271 | 310 | 349 | 387 | SAR Test Exclusion Threshold (mW) |
| 300  | 164 | 192 | 219 | 246 | 274 |                                   |
| 450  | 134 | 157 | 179 | 201 | 224 |                                   |
| 835  | 98  | 115 | 131 | 148 | 164 |                                   |
| 900  | 95  | 111 | 126 | 142 | 158 |                                   |
| 1500 | 73  | 86  | 98  | 110 | 122 |                                   |
| 1900 | 65  | 76  | 87  | 98  | 109 |                                   |
| 2450 | 57  | 67  | 77  | 86  | 96  |                                   |
| 3600 | 47  | 55  | 63  | 71  | 79  |                                   |
| 5200 | 39  | 46  | 53  | 59  | 66  |                                   |
| 5400 | 39  | 45  | 52  | 58  | 65  |                                   |
| 5800 | 37  | 44  | 50  | 56  | 62  |                                   |

**Note:** 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

**SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm**

447498 D01 General RF Exposure Guidance v06 § 4.3

**Technical documentation**

| Document        | Reference                         | Standard                    |
|-----------------|-----------------------------------|-----------------------------|
| IMQ Test Report | No. AR24-0103136-02 of 2026-02-05 | FCC §15.249<br>RSS-210:2024 |

| Channel No. | Frequency (MHz) | Conducted power declared by the manufacturer (dBm) | Conducted power (mW) | Distance (mm) | $\frac{\text{max. power (mW)}}{\text{min. distance (mm)}} \times \sqrt{f(\text{GHz})}$ | Limits                                                       |
|-------------|-----------------|----------------------------------------------------|----------------------|---------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------|
| 01          | 913.7           | -1.01                                              | 0.793                | 5             | 0.1516                                                                                 | ≤ 3.0 for 1-g head SAR<br>or<br>≤ 7.5 for 10-g extremity SAR |

**Test result**

This value is less than the low threshold limit. No SAR test is required.

### 3.2 RF exposure evaluation

#### Test requirement § 6.3 of RSS-102:2023

Devices operating at or below the applicable output power levels (adjusted for tune-up tolerance) specified in table 11, based on the separation distance, are exempt from SAR evaluation. The separation distance, defined as the distance between the user and/or bystander and the antenna and/or radiating element of the device or the outer surface of the device, shall be less than or equal to 20 cm for these exemption limits to apply.

**Table 11: Power limits for exemption from routine SAR evaluation based on the separation distance**

| Frequency (MHz) | ≤ 5 mm (mW) | 10 mm (mW) | 15 mm (mW) | 20 mm (mW) | 25 mm (mW) | 30 mm (mW) | 35 mm (mW) | 40 mm (mW) | 45 mm (mW) | > 50 mm (mW) |
|-----------------|-------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| ≤ 300           | 45          | 116        | 139        | 163        | 189        | 216        | 246        | 280        | 319        | 362          |
| 450             | 32          | 71         | 87         | 104        | 124        | 147        | 175        | 208        | 248        | 296          |
| 835             | 21          | 32         | 41         | 54         | 72         | 96         | 129        | 172        | 228        | 298          |
| 1900            | 6           | 10         | 18         | 33         | 57         | 92         | 138        | 194        | 257        | 323          |
| 2450            | 3           | 7          | 16         | 32         | 56         | 89         | 128        | 170        | 209        | 245          |
| 3500            | 2           | 6          | 15         | 29         | 50         | 72         | 94         | 114        | 134        | 158          |
| 5800            | 1           | 5          | 13         | 23         | 32         | 41         | 54         | 74         | 102        | 128          |

The exemption limits in table 11 are based on measurements and simulations of half-wave dipole antennas at separation distances of 5 mm to 50 mm from a flat phantom, which provides a SAR value of approximately 0.4 W/kg for 1 g of tissue.

For limb-worn devices where the 10 gram of tissue applies, the exemption limits for routine evaluation in table 11 are multiplied by a factor of 2.5.

When the operating frequency of the device is between two frequencies located in table 11, linear interpolation shall be applied for the applicable separation distance.

| Technical documentation |                                         |                             |
|-------------------------|-----------------------------------------|-----------------------------|
| Document                | Reference                               | Standard                    |
| IMQ Test Report         | No. AR24-0103136-02 Rev.1 of 2026-02-05 | FCC §15.249<br>RSS-210:2024 |

| Evaluation of Exemption Limit (separation distance ≤5mm) |                                 |       |                                   |                                   |           |      |                                                                     |
|----------------------------------------------------------|---------------------------------|-------|-----------------------------------|-----------------------------------|-----------|------|---------------------------------------------------------------------|
| Max. Frequency<br>(MHz)                                  | Declared by manufacturer        |       |                                   |                                   | Max level |      | Exemption Limit<br>(obtained by<br>linear<br>interpolation)<br>(mW) |
|                                                          | Max. radiated power<br>declared |       | Tolerance<br>of radiated<br>power | Max.<br>antenna<br>gain<br>(peak) |           |      |                                                                     |
|                                                          | (dBμV@<br>3m)                   | (dBm) | (dB)                              | (dBi)                             | (dBm)     | (mW) |                                                                     |
| 913.7                                                    | 90.90                           | -4.33 | /                                 | /                                 | -4.33     | 0.37 | 19.88                                                               |

| Evaluation of Exemption Limit (separation distance ≤5mm) |                                              |           |                                                                     |
|----------------------------------------------------------|----------------------------------------------|-----------|---------------------------------------------------------------------|
| Max. Frequency<br>(MHz)                                  | Declared by manufacturer                     | Max level | Exemption Limit<br>(obtained by<br>linear<br>interpolation)<br>(mW) |
|                                                          | Conducted power declared by the manufacturer |           |                                                                     |
|                                                          | (dBm)                                        | (mW)      |                                                                     |
| 913.7                                                    | -1.01                                        | 0.793     | 19.88                                                               |

| Test result                                                                                 |
|---------------------------------------------------------------------------------------------|
| SAR evaluation is not required because the output power value is less than exemption limit. |

END OF ASSESSMENT REPORT