

Test report No:  
NIE: 70388REM.002A1

## Test report

FCC Rules and Regulations CFR 47, Part 15, Subpart B (10-1-20 Edition), Subpart C (10-1-21 Edition) & ICES-003 Issue 7 (October 2020)

|   |   |
|---|---|
| (*) Identification of item tested         | GPS multisport watch  |
| (*) Trademark                             | Polar   |
| (*) Model and /or type reference          | 5A  |
| Other identification of the product       | HW version: 007101307<br>SW version: 0.11.0<br>FCC ID: INW5A<br>IC: 6248A-5A  |
| (*) Features                              | Bluetooth LE, GNSS: GPS, Galileo, Glonass, SBAS   |
| Manufacturer                              | Polar Electro Oy<br>Professorintie 5<br>90440 Kempele, FINLAND  |
| Test method requested, standard           | FCC Rules and Regulations CFR 47, Part 15, Subpart B (10-1-20 Edition), Subpart C (10-1-21 Edition) & ICES-003 Issue 7 (October 2020) |
| Summary                                   | IN COMPLIANCE   |
| Approved by (name / position & signature) | Rafael López Martín<br>EMC Consumer & RF Lab. Manager   |
| Date of issue                             | 2022-04-12  |
| Report template No                        | FDT08_24<br>(* "Data provided by the client")   |



## Index

|  |    |
|--|----|
| ACRONYMS .....                               | 3  |
| COMPETENCES AND GUARANTEES .....             | 3  |
| GENERAL CONDITIONS .....                     | 4  |
| UNCERTAINTY .....                            | 4  |
| DATA PROVIDED BY THE CLIENT .....            | 4  |
| USAGE OF SAMPLES .....                       | 5  |
| TEST SAMPLE DESCRIPTION .....                | 6  |
| IDENTIFICATION OF THE CLIENT .....           | 7  |
| TESTING PERIOD AND PLACE .....               | 7  |
| DOCUMENT HISTORY .....                       | 7  |
| ENVIRONMENTAL CONDITIONS .....               | 8  |
| REMARKS AND COMMENTS .....                   | 9  |
| TESTING VERDICTS .....                       | 9  |
| LIST OF EQUIPMENT USED DURING THE TEST ..... | 9  |
| SUMMARY .....                                | 10 |
| APPENDIX A: TEST RESULTS .....               | 11 |

## Acronyms

| Acronym ID | Acronym Description               |
|------------|-----------------------------------|
| Code       | EMC Test Code                     |
| Freq Rng   | Frequency Range                   |
| Line       | Conducted Emissions - Tested Line |
| OM         | Operation Mode                    |
| S/         | Sample                            |
| V          | Verdict                           |

## Competences and guarantees

DEKRA Testing and Certification S.A.U. is a testing laboratory accredited by the National Accreditation Body (ENAC -Entidad Nacional de Acreditación), to perform the tests indicated in the Certificate No. 51/LE 147.

In order to assure the traceability to other national and international laboratories, DEKRA Testing and Certification S.A.U. has a calibration and maintenance program for its measurement equipment.

DEKRA Testing and Certification S.A.U. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Testing and Certification S.A.U. at the time of performance of the test.

DEKRA Testing and Certification S.A.U. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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## General conditions

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1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
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4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Testing and Certification S.A.U. and the Accreditation Bodies.

## Uncertainty

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Uncertainty (factor  $k=2$ ) was calculated according to the DEKRA Testing and Certification S.A.U. internal document PODT000.

The total uncertainty of the measurement system for the measured conducted disturbance characteristics of EUT from 150 kHz to 30 MHz is  $I = \pm 3,9$  dB for quasi-peak measurements,  $I = \pm 3,2$  dB for peak measurements ( $k = 2$ ).

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 30 MHz to 1000 MHz is  $I = \pm 4,9$  dB for quasi-peak measurements,  $I = \pm 4,6$  dB for peak measurements ( $k = 2$ ).

The total uncertainty of the measurement system for the measured radio disturbance characteristics of EUT from 1000 MHz to 12.75 GHz is  $I = \pm 2,6$  dB for peaks and average measurements ( $k = 2$ ).

## Data provided by the client

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The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample consists of a GPS multi-sports watch with Bluetooth low-energy connectivity and wrist-based optical heart rate, model 5A.

DEKRA Testing and Certification S.A.U. declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

## Usage of samples

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Samples undergoing test have been selected by: The client.

| Id   | Control Number | Description                              | Model | Serial N°     | Date of Reception | Application           |
|------|----------------|--|-------|---------------|-------------------|-----------------------|
| S/01 | 70388_7.1      | Smart watch 5A<br>(commercial<br>sample) | 5A    | F1475E1400252 | 2021-11-29        | Element<br>Under Test |
| S/01 | 70388_1.1      | USB Cable charger<br>(5A)                | ---   | CFE2143A0     | 2021-11-29        | Auxiliary<br>Element  |

Notes referenced to samples during the project:

None.

## Test sample description

|   |                                    |                                |                      |              |                                   |     |     |
|---|------------------------------------|--------------------------------|----------------------|--------------|-----------------------------------|-----|-----|
| Ports..... :                                  | Port name and description          | Cable                          |                      |              |                                   |     |     |
|   |                                    | Specified max length [m]       | Attached during test | Shielded     | Coupled to patient <sup>(3)</sup> |     |     |
|   | USB port                           | 0.6                            | [X]                  | [ ]          | [ ]                               |     |     |
|   | .....                              | .....                          | [ ]                  | [ ]          | [ ]                               |     |     |
| Supplementary information to the ports..... : | .....                              |                                |                      |              |                                   |     |     |
| Rated power supply .....                      | Voltage and Frequency              |                                | Reference poles      |              |                                   |     |     |
|   |                                    |                                | L1                   | L2           | L3                                | N   | PE  |
|   | [ ]                                | AC: .....                      | [ ]                  | [ ]          | [ ]                               | [ ] | [ ] |
|   | [X]                                | DC: 3.85 Vdc                   |                      |              |                                   |     |     |
| Rated Power .....                             | 1.02 W                             |                                |                      |              |                                   |     |     |
| Clock frequencies..... :                      | 32.768 kHz, 24 MHz, 26 MHz, 32 MHz |                                |                      |              |                                   |     |     |
| Other parameters .....                        | .....                              |                                |                      |              |                                   |     |     |
| Software version .....                        | 0.11.0                             |                                |                      |              |                                   |     |     |
| Hardware version .....                        | 007101307                          |                                |                      |              |                                   |     |     |
| Dimensions in cm (W x H x D) .....            | .....                              |                                |                      |              |                                   |     |     |
| Mounting position .....                       | [ ]                                | Table top equipment            |                      |              |                                   |     |     |
|   | [ ]                                | Wall/Ceiling mounted equipment |                      |              |                                   |     |     |
|   | [ ]                                | Floor standing equipment       |                      |              |                                   |     |     |
|   | [X]                                | Hand-held equipment            |                      |              |                                   |     |     |
|   | [ ]                                | Other: .....                   |                      |              |                                   |     |     |
| Modules/parts..... :                          | Module/parts of test item          |                                | Type                 | Manufacturer |                                   |     |     |
|   | .....                              |                                | .....                | .....        |                                   |     |     |
| Accessories (not part of the test item) ..... | Description                        |                                | Type                 | Manufacturer |                                   |     |     |
|   | .....                              |                                | .....                | .....        |                                   |     |     |
| Documents as provided by the applicant..... : | Description                        |                                | File name            | Issue date   |                                   |     |     |
|   | .....                              |                                | .....                | .....        |                                   |     |     |

<sup>(3)</sup> Only for Medical Equipment

## Identification of the client

Polar Electro Oy  
Professorintie 5  
90440 Kempele, FINLAND

## Testing period and place

|                      |  |
|----------------------|--|
| <b>Test Location</b> | DEKRA Testing and Certification S.A.U. |
| <b>Date (start)</b>  | 2021-11-29                             |
| <b>Date (finish)</b> | 2021-12-16                             |

## Document history

| Report number  | Date       | Description   |
|----------------|------------|---|
| 70388REM.002A1 | 2022-04-12 | It is added mode operation OM/02 and tests for OM/02. It is modified some typos in the test report.<br>This modification test report cancels and replaces the test report 70388REM.002. |
| 70388REM.002   | 2022-02-11 | First release   |

## Environmental conditions

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In the control chamber, the following limits were not exceeded during the test:

|                          |                                   |
|--------------------------|-----------------------------------|
| <b>Temperature</b>       | Min. = 15 °C<br>Max. = 35 °C      |
| <b>Relative humidity</b> | Min. = 30 %<br>Max. = 75 %        |
| <b>Air pressure</b>      | Min. = 860mbar<br>Max. = 1060mbar |

In the semianechoic chamber, the following limits were not exceeded during the test.

|                          |                                   |
|--------------------------|-----------------------------------|
| <b>Temperature</b>       | Min. = 15 °C<br>Max. = 35 °C      |
| <b>Relative humidity</b> | Min. = 30 %<br>Max. = 75 %        |
| <b>Air pressure</b>      | Min. = 860mbar<br>Max. = 1060mbar |

In the chamber for conducted measurements, the following limits were not exceeded during the test:

|                          |                                   |
|--------------------------|-----------------------------------|
| <b>Temperature</b>       | Min. = 15 °C<br>Max. = 35 °C      |
| <b>Relative humidity</b> | Min. = 30 %<br>Max. = 60 %        |
| <b>Air pressure</b>      | Min. = 860mbar<br>Max. = 1060mbar |



## Remarks and comments

The tests have been performed by the technical personnel: Abel Gil Pensado, Beatriz Cabello De Alba Bujalance and Julio Bautista Martín.

## Testing verdicts

|                |     |
|----------------|-----|
| Fail           | F   |
| Inconclusive   | I   |
| Not applicable | N/A |
| Not measured   | N/M |
| Pass           | P   |

## List of equipment used during the test

| Control No. | Equipment                          | Model     | Manufacturer      | Next Calibration |
|-------------|------------------------------------|-----------|-------------------|------------------|
| 6666        | EMI TEST RECEIVER 2Hz-44GHz        | ESW44     | ROHDE AND SCHWARZ | 2022-02-05       |
| 7743        | HORN ANTENNA 0,75-18GHz            | 3115      | ETS LINDGREN      | 2023-08-24       |
| 6815        | HYBRID BILOG ANTENNA 30MHz-6GHz    | 3142E     | ETS LINDGREN      | 2022-02-01       |
| 6196        | PRE-AMPLIFIER G>55dB 1-18GHz       | --        | SCHWARZBECK       | 2022-07-09       |
| 7553        | TEMPERATURE AND HUMIDITY PROBE     | HWg-STE   | HW GROUP          | 2022-04-12       |
| 6204        | THREE-PHASE ARTIFICIAL NETWORK 32A | PMM L3-32 | NARDA             | 2023-09-27       |
| 1936        | PRESELECTOR                        | ESPI-B2   | ROHDE AND SCHWARZ | --               |

## Summary

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| Test Specification  | Requirement – Test case                                | Verdict | Remark |
|---|--|---------|--------|
| FCC CFR 47, Part 15, Subpart B (10-1-20 Edition) & ICES-003 Issue 7 (October 2020)                              | RE Radiated emission.<br>Electromagnetic field measure | Pass    | --     |
| FCC CFR 47, Part 15, Subpart B (10-1-20 Edition), Subpart C (10-1-21 Edition) & ICES-003 Issue 7 (October 2020) | CE Continuous conducted emission                       | Pass    | --     |
| <u>Supplementary information and remarks:</u><br>None   |  |         |        |

## Appendix A: Test results

## Appendix A content

|  |    |
|--|----|
| DESCRIPTION OF THE OPERATION MODES .....                         | 13 |
| TEST STANDARDS VERSION APPLIED .....                             | 14 |
| TEST CASES DETAILS .....   | 15 |
| <i>RE Radiated emission. Electromagnetic field measure</i> ..... | 15 |
| <i>CE Continuous conducted emission</i> .....                    | 19 |

## Description of the operation modes

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The operation modes described in this paragraph constitute a functionality of the sample under test for itself.

The operation modes used by the samples to which the present report refers, are shown in the following table:

| Id    | Description   |
|-------|---|
| OM/01 | EUT ON. Charging and transferring data from an auxiliary device. Bluetooth in IDLE mode. ANSI Setup. Power Supply: 5Vdc (By USB port). Auxiliary PC for ANSI Setup powered 115Vac.              |
| OM/02 | EUT ON. Charging battery from an auxiliary device. ANSI Setup. Bluetooth active and paired with auxiliary device. Power supply: 5Vdc (By USB port). Auxiliary PC for ANSI Setup powered 115Vac. |

## Test standards version applied

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The product standards and test standards applied for each test cases are shown in the following table:

| Product Test Standard   | Test standard     | Requirement – Test case          |
|---|-------------------|----------------------------------|
| FCC CFR 47, Part 15, Subpart B (10-1-20 Edition) & ICES-003 Issue 7 (October 2020)                              | ANSI C63.4 (2014) | RE Radiated emission.            |
| FCC CFR 47, Part 15, Subpart B (10-1-20 Edition), Subpart C (10-1-21 Edition) & ICES-003 Issue 7 (October 2020) | ANSI C63.4 (2014) | CE Continuous conducted emission |

## Test Cases Details

### RE Radiated emission. Electromagnetic field measure

#### Limits

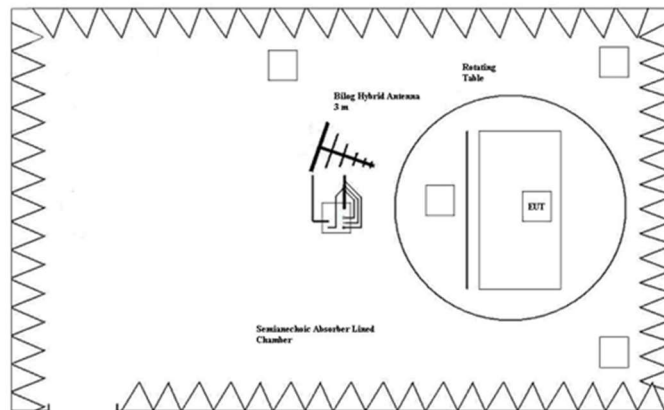
Limits of interference Class B

The applied limit for radiated emissions, 3 m distance, according to the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B (01-10-20 Edition), Secs.15.109 & ICES-003 Issue 7 (October 2020)

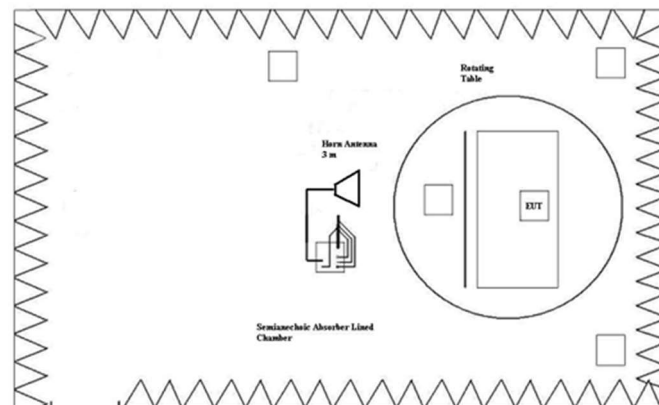
| Frequency range (MHz) | FCC Part 15B        |                              | ICES-003 Issue 7    |                              | FCC Part 15B & ICES-003 Issue 7 |                              |
|-----------------------|---------------------|------------------------------|---------------------|------------------------------|---------------------------------|------------------------------|
|                       | QP Limit for 3 m    |                              | QP Limit for 3 m    |                              | PK Limit for 3 m                | AVG Limit for 3 m            |
|                       | ( $\mu\text{V/m}$ ) | ( $\text{dB}\mu\text{V/m}$ ) | ( $\mu\text{V/m}$ ) | ( $\text{dB}\mu\text{V/m}$ ) | ( $\text{dB}\mu\text{V/m}$ )    | ( $\text{dB}\mu\text{V/m}$ ) |
| 30 to 88              | 100                 | 40                           | 100                 | 40                           | ---                             | ---                          |
| 88 to 216             | 150                 | 43.5                         | 150                 | 43.5                         | ---                             | ---                          |
| 216 to 230            | 200                 | 46                           | 200                 | 46                           | ---                             | ---                          |
| 230 to 960            | 200                 | 46                           | 224                 | 47                           | ---                             | ---                          |
| 960 to 1000           | 500                 | 54                           | 500                 | 54                           | ---                             | ---                          |
| Above 1000            | ---                 | ---                          | ---                 | ---                          | 74                              | 54                           |

Limits according to FCC Part 15B, are equal or more stringent than those of ICES-003 Issue 7.

#### Setup for measurements



Setup for measurements < 1GHz.



Setup for measurements > 1GHz.

## Results

| S/ | OM    | Code     | Freq Rng (MHz) | V |
|----|-------|----------|----------------|---|
| 01 | OM/01 | RE0101LR | [30, 1000]     | P |
| 01 | OM/01 | RE0101HR | [1000, 12750]  | P |

## Verdict

Pass



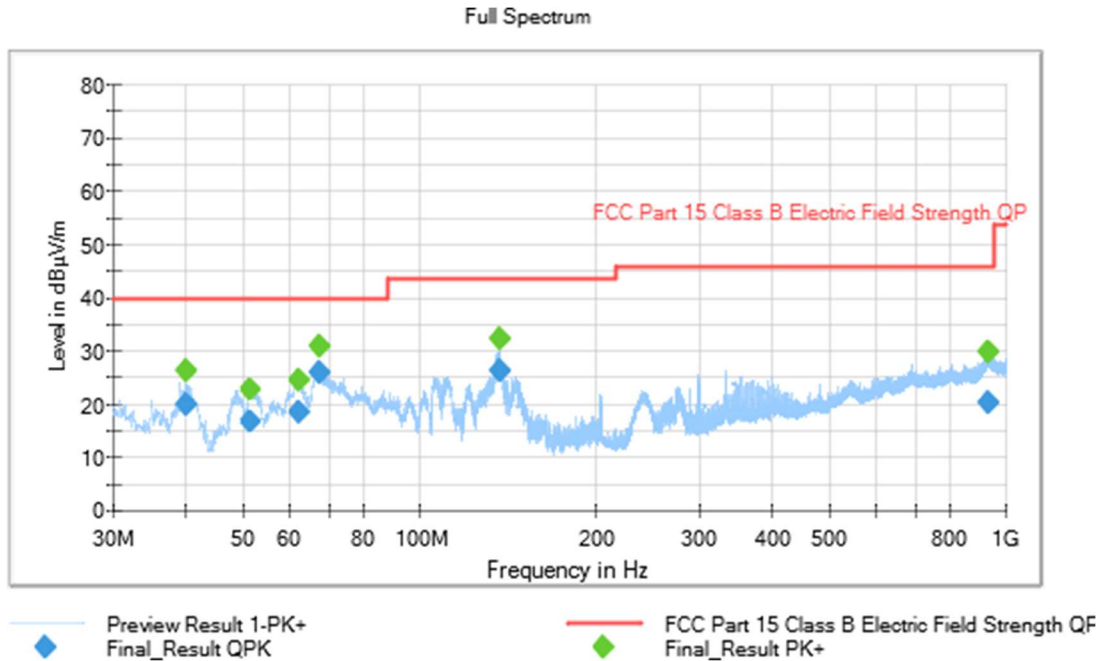
**Attachments**

**EMC Test Code = RE0101LR, Frequency Range MHz = [30, 1000]**

Sample ID: S/01

Operation Mode: OM/01. EUT ON. Charging and transferring data from an auxiliary device. Bluetooth in IDLE mode. ANSI Setup. Power supply: 5Vdc (By USB port). Auxiliary PC for ANSI Setup powered 115Vac.

**Images:**



**Documents:**

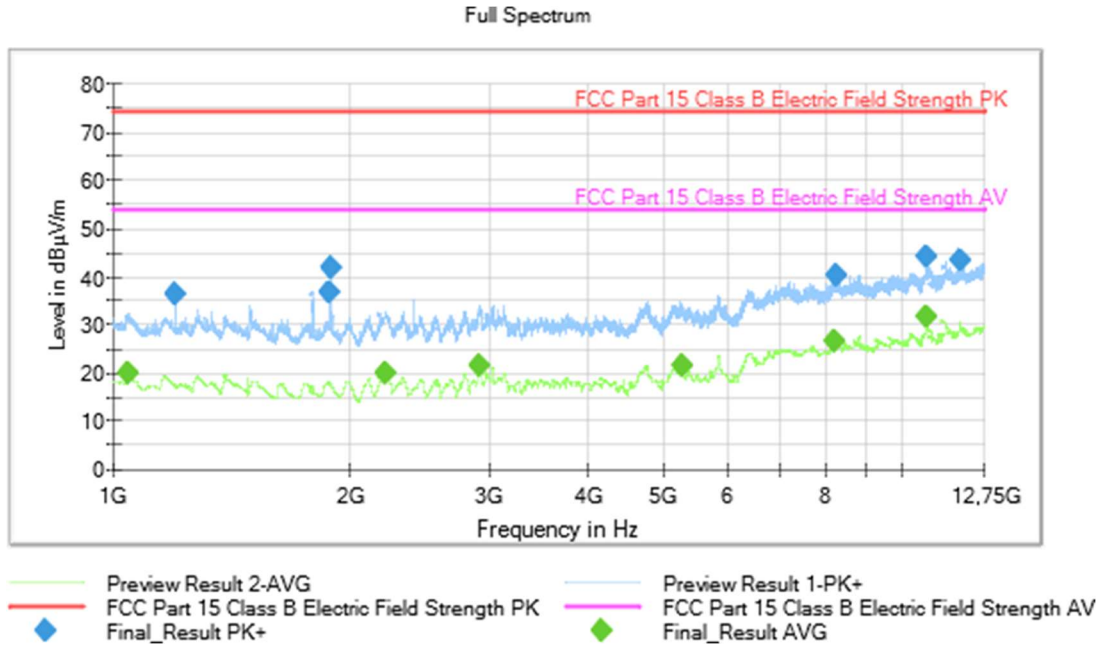
| Frequency(MHz) | QuasiPeak(dBµV/m) | MaxPeak(dBµV/m) | Limit(dBµV/m) | Margin(dB) | Height(cm) | Pol | Azimuth(deg) |
|----------------|-------------------|-----------------|---------------|------------|------------|-----|--------------|
| 40.072000      | 19.83             | ---             | 40.00         | 20.17      | 105.0      | V   | 80.0         |
| 40.072000      | ---               | 26.14           | ---           | ---        | 105.0      | V   | 80.0         |
| 51.407000      | 16.78             | ---             | 40.00         | 23.22      | 168.0      | V   | 63.0         |
| 51.407000      | ---               | 22.60           | ---           | ---        | 168.0      | V   | 63.0         |
| 62.244000      | 18.36             | ---             | 40.00         | 21.64      | 168.0      | V   | 103.0        |
| 62.244000      | ---               | 24.38           | ---           | ---        | 168.0      | V   | 103.0        |
| 67.557000      | 25.68             | ---             | 40.00         | 14.32      | 112.0      | V   | 123.0        |
| 67.557000      | ---               | 30.94           | ---           | ---        | 112.0      | V   | 123.0        |
| 136.993000     | ---               | 32.36           | ---           | ---        | 268.0      | H   | 182.0        |
| 136.993000     | 26.15             | ---             | 43.52         | 17.37      | 268.0      | H   | 182.0        |
| 936.990000     | ---               | 29.81           | ---           | ---        | 252.0      | H   | 196.0        |
| 936.990000     | 20.33             | ---             | 46.00         | 25.67      | 252.0      | H   | 196.0        |

EMC Test Code = RE0101HR, Frequency Range MHz = [1000, 12750]

Sample ID: S/01

Operation Mode: OM/01. EUT ON. Charging and transferring data from an auxiliary device. Bluetooth in IDLE mode. ANSI Setup. Power supply: 5Vdc (By USB port). Auxiliary PC for ANSI Setup powered 115Vac.

Images:



Documents:

| Frequency(MHz) | MaxPeak(dBµV/m) | Average(dBµV/m) | Limit(dBµV/m) | Margin(dB) |
|----------------|-----------------|-----------------|---------------|------------|
| 1045.200000    | ---             | 19.95           | 53.97         | 34.02      |
| 1196.400000    | 36.46           | ---             | 73.97         | 37.51      |
| 1881.600000    | 36.84           | ---             | 73.97         | 37.13      |
| 1885.200000    | 41.65           | ---             | 73.97         | 32.32      |
| 2221.200000    | ---             | 20.02           | 53.97         | 33.95      |
| 2915.200000    | ---             | 21.47           | 53.97         | 32.50      |
| 5264.000000    | ---             | 21.42           | 53.97         | 32.55      |
| 8224.400000    | ---             | 26.59           | 53.97         | 27.38      |
| 8265.600000    | 40.11           | ---             | 73.97         | 33.87      |
| 10769.200000   | 44.03           | ---             | 73.97         | 29.94      |
| 10775.600000   | ---             | 31.55           | 53.97         | 22.42      |
| 11867.200000   | 43.42           | ---             | 73.97         | 30.55      |

## CE Continuous conducted emission

### Limits of interference Class B

The applied limit for continuous conducted emissions in power leads, according with the requirements of FCC Rules and Regulations 47 CFR Part 15, Subpart B (10-1-20 Edition), Secs. 15.107, Subpart C (10-1-21 Edition), Secs. 15.207 & ICES-003 Issue 7 (October 2020), in the frequency range 0,15 to 30 MHz, for Class B equipment was:

| Frequency range<br>(MHz) | Limit (dB $\mu$ V) |          |
|--------------------------|--------------------|----------|
|                          | Quasi-Peak         | Average  |
| 0,15 to 0,5              | 66 – 56*           | 56 – 46* |
| 0,5 to 5                 | 56                 | 46       |
| 5 to 30                  | 60                 | 50       |

\*Decreases with the logarithm of the frequency.

### Results

| S/ | OM    | Code     | Freq Rng (MHz) | Line | V |
|----|-------|----------|----------------|------|---|
| 01 | OM/01 | CE01010N | [0.15, 30]     | N    | P |
| 01 | OM/01 | CE0101L1 | [0.15, 30]     | L1   | P |
| 01 | OM/02 | CE01020N | [0.15, 30]     | N    | P |
| 01 | OM/02 | CE0102L1 | [0.15, 30]     | L1   | P |

### Verdict

Pass

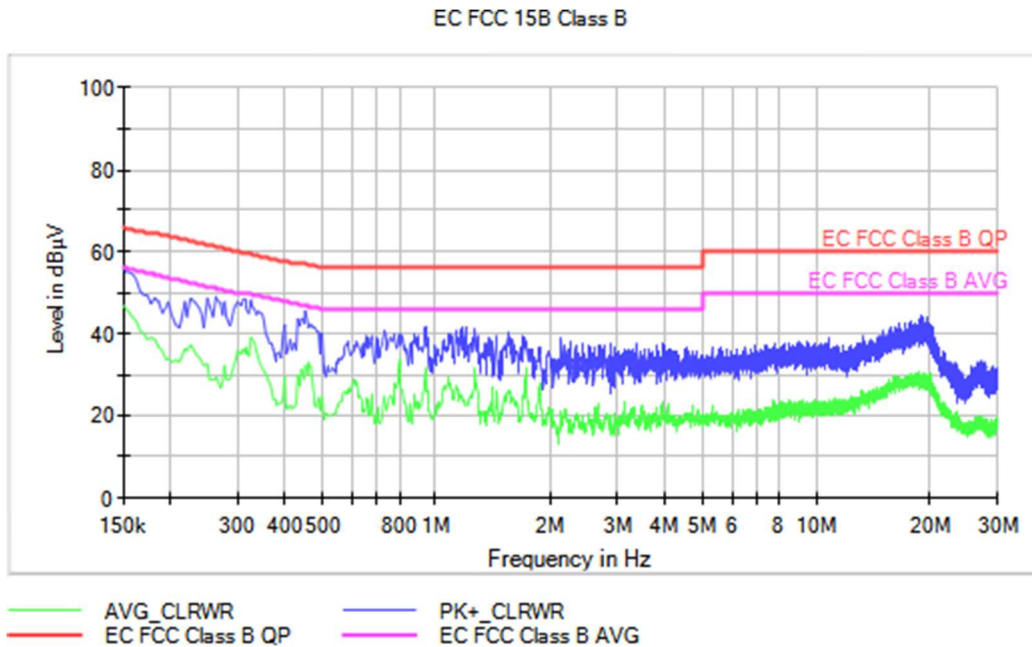
**Attachments**

**EMC Test Code = CE01010N, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = N**

Sample ID: S/01

Operation Mode: OM/01. EUT ON. Charging and transferring data from an auxiliary device. Bluetooth in IDLE mode. ANSI Setup. Power supply: 5Vdc (By USB port). Auxiliary PC for ANSI Setup powered 115Vac.

**Images:**



**Documents:**

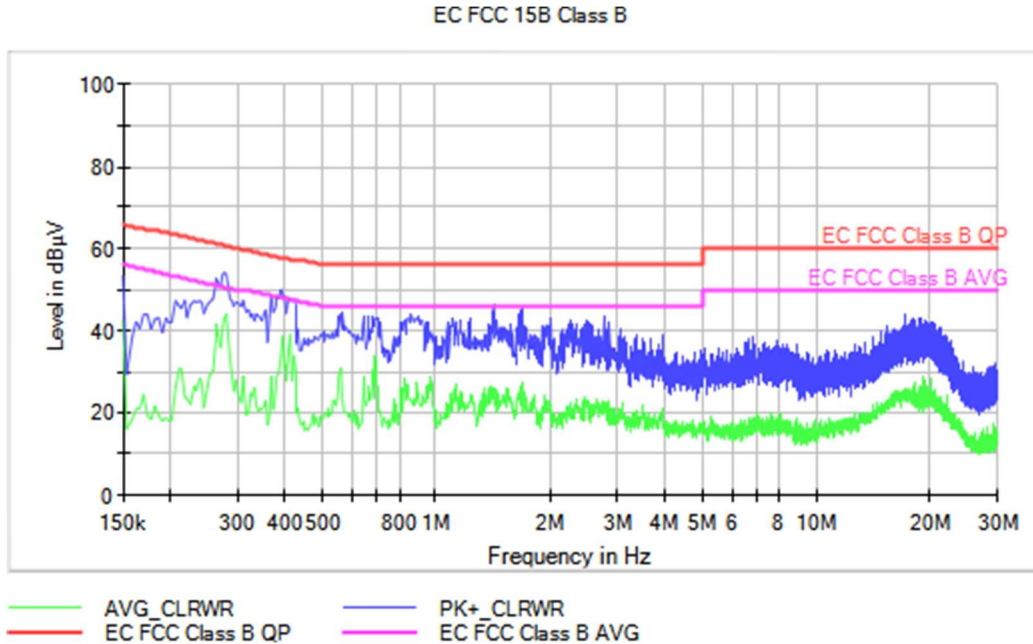
| Frequency(MHz) | PK+_CLRWR(dBµV) | AVG_CLRWR(dBµV) | Line |
|----------------|-----------------|-----------------|------|
| 0.150000       | 55.9            | 46.7            | N    |
| 0.262000       | 49.1            | 29.0            | N    |
| 0.454000       | 45.3            | 32.3            | N    |
| 1.202000       | 41.6            | 22.3            | N    |
| 1.270000       | 41.4            | 31.0            | N    |
| 2.142000       | 38.8            | 20.9            | N    |
| 3.930000       | 37.8            | 21.9            | N    |
| 9.510000       | 38.0            | 21.9            | N    |
| 17.618000      | 42.7            | 29.4            | N    |
| 18.994000      | 44.5            | 28.5            | N    |

**EMC Test Code = CE0101L1, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = L1**

Sample ID: S/01

Operation Mode: OM/01. EUT ON. Charging and transferring data from an auxiliary device. Bluetooth in IDLE mode. ANSI Setup. Power supply: 5Vdc (By USB port). Auxiliary PC for ANSI Setup powered 115Vac.

**Images:**



**Documents:**

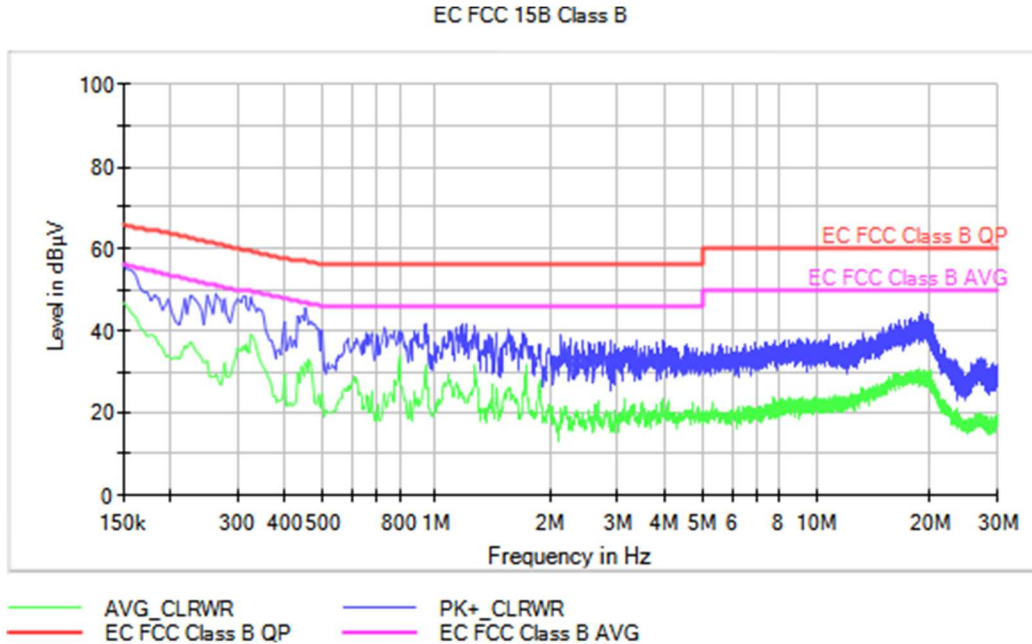
| Frequency(MHz) | PK+_CLRWR(dBµV) | AVG_CLRWR(dBµV) | Line |
|----------------|-----------------|-----------------|------|
| 0.150000       | 53.2            | 42.6            | L1   |
| 0.278000       | 54.0            | 43.3            | L1   |
| 0.570000       | 44.4            | 23.4            | L1   |
| 0.862000       | 44.1            | 23.4            | L1   |
| 1.426000       | 46.2            | 24.1            | L1   |
| 2.758000       | 43.5            | 22.7            | L1   |
| 3.942000       | 38.8            | 21.1            | L1   |
| 6.786000       | 38.3            | 18.8            | L1   |
| 17.242000      | 44.1            | 24.6            | L1   |
| 19.026000      | 43.0            | 25.4            | L1   |

**EMC Test Code = CE01020N, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = N**

Sample ID: S/01

Operation Mode: OM/02. EUT ON. Charging battery from an auxiliary device. Bluetooth active and paired with auxiliary device. ANSI Setup. Power supply: 5Vdc (By USB port). Auxiliary PC for ANSI Setup powered 115Vac.

**Images:**



**Documents:**

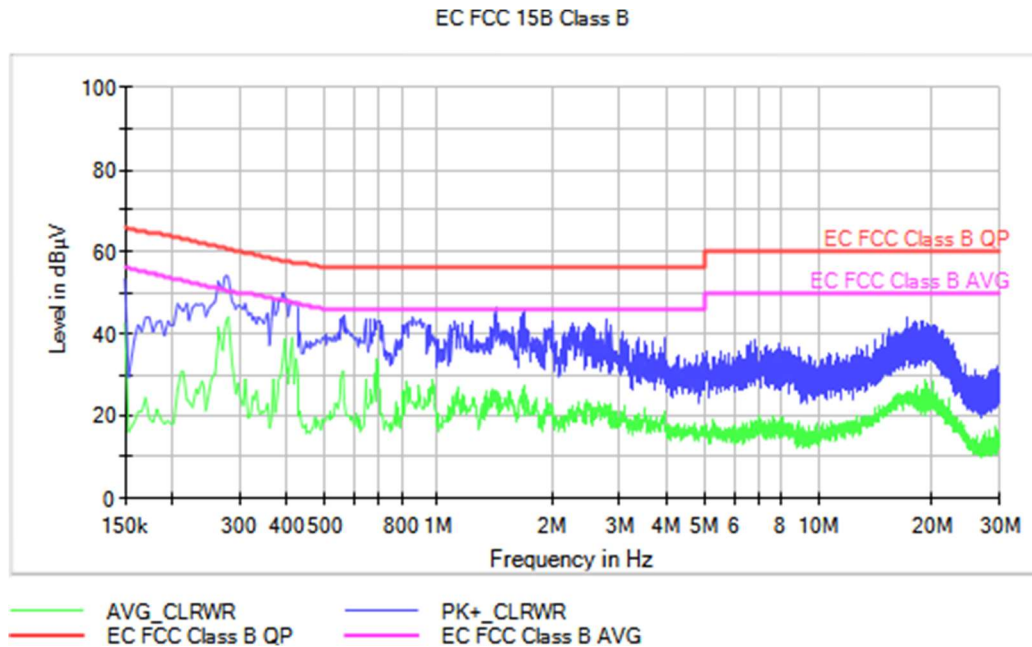
| Frequency(MHz) | PK+_CLRWR(dBµV) | AVG_CLRWR(dBµV) | Line |
|----------------|-----------------|-----------------|------|
| 0.160000       | 56.0            | 46.7            | N    |
| 0.272000       | 49.0            | 29.1            | N    |
| 0.484000       | 45.5            | 32.3            | N    |
| 1.202000       | 41.6            | 22.5            | N    |
| 1.270000       | 41.4            | 31.0            | N    |
| 2.162000       | 38.9            | 20.8            | N    |
| 3.830000       | 37.8            | 21.9            | N    |
| 9.570000       | 37.9            | 22.0            | N    |
| 17.618000      | 42.8            | 29.4            | N    |
| 18.984000      | 44.5            | 28.7            | N    |

**EMC Test Code = CE0102L1, Frequency Range MHz = [0.15, 30], Conducted Emissions - Tested Line = L1**

Sample ID: S/01

Operation Mode: OM/02. EUT ON. Charging battery from an auxiliary device. Bluetooth active and paired with auxiliary device. ANSI Setup. Power supply: 5Vdc (By USB port). Auxiliary PC for ANSI Setup powered 115Vac.

**Images:**



**Documents:**

| Frequency(MHz) | PK+_CLRWR(dBµV) | AVG_CLRWR(dBµV) | Line |
|----------------|-----------------|-----------------|------|
| 0.150000       | 53.3            | 42.7            | L1   |
| 0.288000       | 54.5            | 43.5            | L1   |
| 0.570000       | 44.4            | 22.9            | L1   |
| 0.882000       | 44.0            | 23.4            | L1   |
| 1.426000       | 46.2            | 23.9            | L1   |
| 2.788000       | 43.8            | 22.7            | L1   |
| 3.942000       | 39.1            | 21.2            | L1   |
| 6.886000       | 38.1            | 18.8            | L1   |
| 17.256000      | 44.1            | 24.7            | L1   |
| 19.026000      | 43.2            | 25.1            | L1   |