


| EMC TEST REPORT | |
|--|---|
| Title 47 CFR Part 15B, ISED ICES-003 Issue 7 | |
| Report Reference No | G0M-2111-1157-EF0115B-V01 |
| Testing Laboratory | Eurofins Product Service GmbH |
| Address | Storkower Str. 38c 15526 Reichenwalde Germany |
| Accreditation |     <p> A2LA - Registration number: 1983.01 (ISED) ISED wireless device testing laboratory: CN 3470A DAkkS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970 </p> |
| Applicant | BVK TEKNOLOJI ANONIM SIRKETI |
| Address | Resitpasa Mah., Katar Cad. ITU Teknokent ARI-6 No:2/49/103 Sariyer 34467 Istanbul TURKEY |
| Test Specification Standard(s) | Title 47 CFR Part 15 Subpart B ISED ICES-Gen Issue 1 ; Amendment 1 (February 2021) ISED ICES-003 Issue 7 ANSI C63.4:2014+A1:2017 |
| Non-Standard Test Method | None |
| Equipment under Test (EUT): | |
| Product Description | OTCaccess MiniSmart Bluetooth Keypad Indoor |
| Model(s) | 2KY-303C |
| Additional Model(s) | None |
| Brand Name(s) | None |
| Hardware Version(s) | v3.1 |
| Software Version(s) | 20211002 |
| FCC-ID | 2A4FC2303 |
| IC | - |
| Test Result | PASSED |

| | | |
|--|--------------------------|--|
| Possible test case verdicts: | | |
| required by standard but not tested | N/T | |
| not required by standard | N/R | |
| required by standard but not appl. to test object | N/A | |
| test object does meet the requirement | P(PASS) | |
| test object does not meet the requirement | F(FAIL) | |
| Testing: | | |
| Date of receipt of test item | 2022-02-08 | |
| Report: | | |
| Compiled by | Matthias Handrik | |
| Tested by (+ signature) (Responsible for Test) | Matthias Handrik |  |
| Approved by (+ signature) (Test Lab Engineer) | Andreas Pflug |  |
| Date of Issue | 2022-05-03 | |
| Total number of pages | 38 | |
| General Remarks: | | |
| <p>The test results presented in this report relate only to the object tested.</p> <p>The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p> | | |
| Additional Comments: | | |
| Additional variants have been declared by the manufacturer. The listed models were not tested, evaluated or assessed in no way. | | |
| Additional Model | Product Type Description | OTCaccess MiniSmart Bluetooth Keypad outdoor version |
| | Model name | 2KY-303D |
| | Brand Name (optional) | - |
| | Hardware Version | v3.1 |
| | Software Version | 20211002 |

ABBREVIATIONS AND ACRONYMS

| Acronyms | |
|------------------|---|
| Acronym | Description |
| EUT | Equipment Under Test |
| FCC | Federal Communications Commission |
| ISED | Innovation, Science and Economic Development Canada |
| T _{NOM} | Nominal operating temperature |
| V _{NOM} | Nominal supply voltage |

VERSION HISTORY

| Version History | | | |
|-----------------|------------|-----------------|------------|
| Version | Issue Date | Remarks | Revised By |
| 01 | 2022-05-03 | Initial Release | - |

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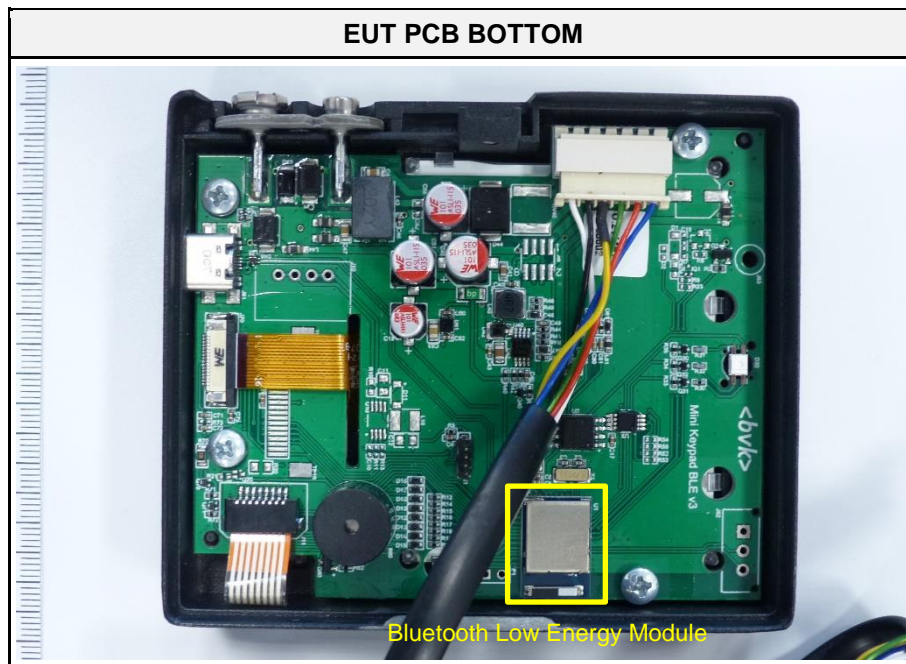
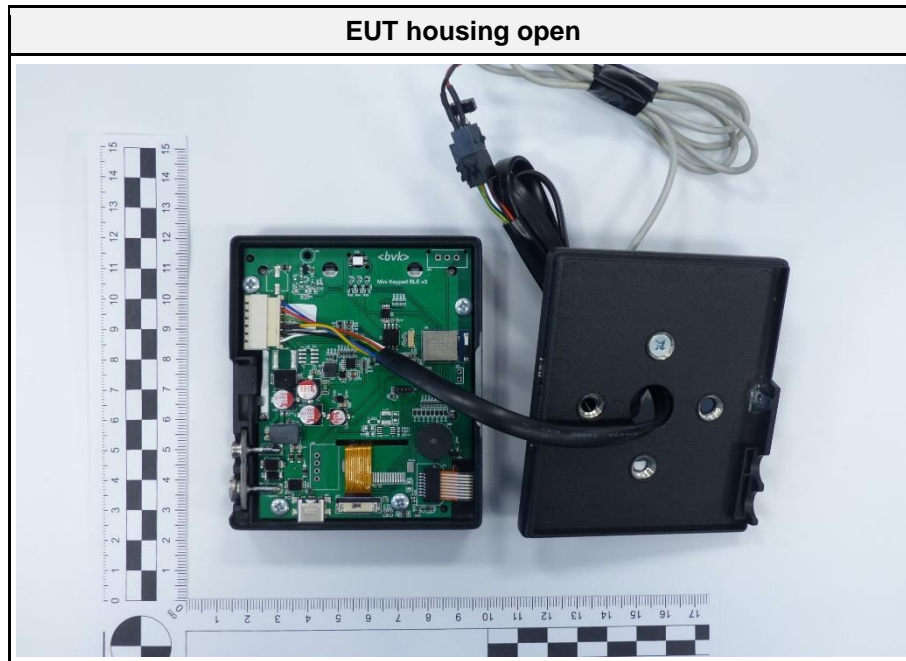
1 Equipment (Test Item) Under Test

| | | |
|----------------------------------|--|--------------------------------------|
| Description | OTCaccess MiniSmart Bluetooth Keypad Indoor | |
| Intended use | EUT is a keypad with Bluetooth Low Energy functionality. The EUT had a Graphic 128x64 mono display with white backlight. EUT is a part of a system which support OTCaccess, banking, Online Request. | |
| Model | 2KY-303C | |
| Additional Model(s) | None | |
| Brand Name(s) | None | |
| Serial Number(s) | "Prototype" | |
| Sample ID | 38308 | |
| Hardware Version(s) | v3.1 | |
| Software Version(s) | 20211002 | |
| EUT Dimensions [cm] | 7.88 x 9.42 x 2.2 | |
| FCC-ID | 2A4FC2303 | |
| IC | - | |
| Contains FCC-ID | - | |
| Contains IC | - | |
| Class | Class B | |
| Equipment type | Table top | |
| Highest internal frequency [MHz] | 64MHz for clock, 2400MHz for Bluetooth | |
| Protective Earth | Yes | |
| Radio Module | Type | Bluetooth Low Energy Module |
| | Model | MDBT50Q-1MV2 |
| | Manufacturer | Ratrac |
| | FCC-ID | SH6MDBT50Q |
| | IC | 8017A-MDBT50Q |
| Supply Voltage | V _{NOM} | 12 VDC |
| | V _{NOM} | 9V DC (Alkaline battery, not tested) |
| AC/DC-Adaptor | None | |
| Manufacturer | BVK TEKNOLOJI ANONIM SIRKETI ISBI SUBE ISBI PLAZA NO:1/310 BAKIRKOY BAKIRKOY Istanbul TURKEY | |

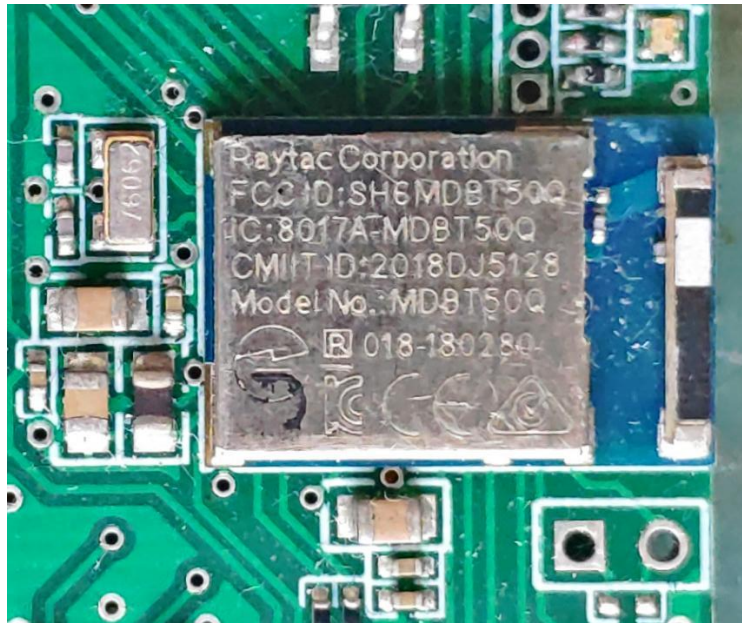
1.1 Equipment Ports

| Name | Type | Attributes | Comment |
|------------------|---|--|--|
| USB | DC / IO | Count: 1 Cable length [m]: 1 Direction: IO Service only: Yes Shielded: Yes | For power backup |
| Power / Data | DC / IO | Count: 1 Cable max. length [m]: 1 Direction: IO Service only: No Shielded: No | 12V DC + 2-way communication with controller |
| Power | DC | Count: 1 Cable max. length [m]: 1 Direction: IN Service only: No Shielded: No | 9V battery, snip for power backup |
| Protective Earth | DC | Count: 1 Cable length [m]: unspecified Direction: IN Service only: No Shielded: No | 1m was used for the measurement |
| Description: | | | |
| AC | AC mains power input/output port | | |
| DC | DC power input/output port | | |
| BAT | DC power input port connected to external battery | | |
| IO | Input/Output port | | |
| TP | Telecommunication port | | |
| NE | Non-electrical port | | |

1.2 Equipment Photos - Internal



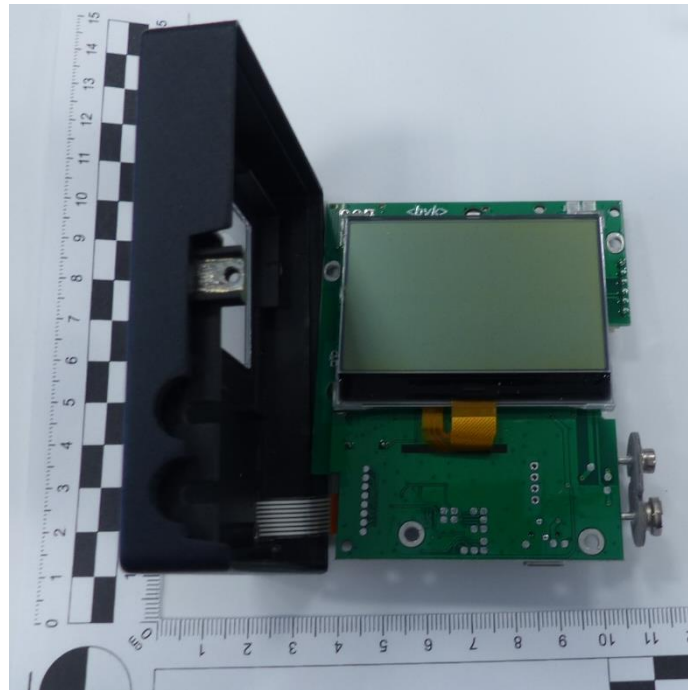
Bluetooth Low Energy Module with shield



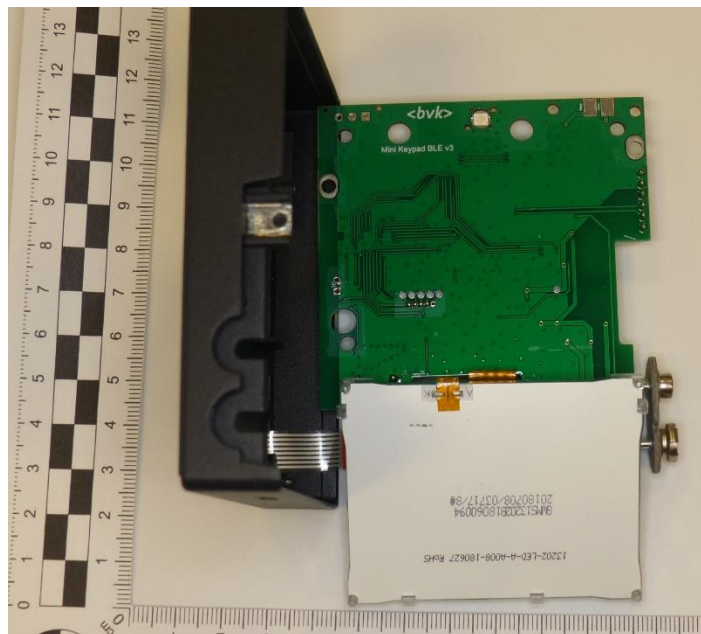
Bluetooth Low Energy Module without shield



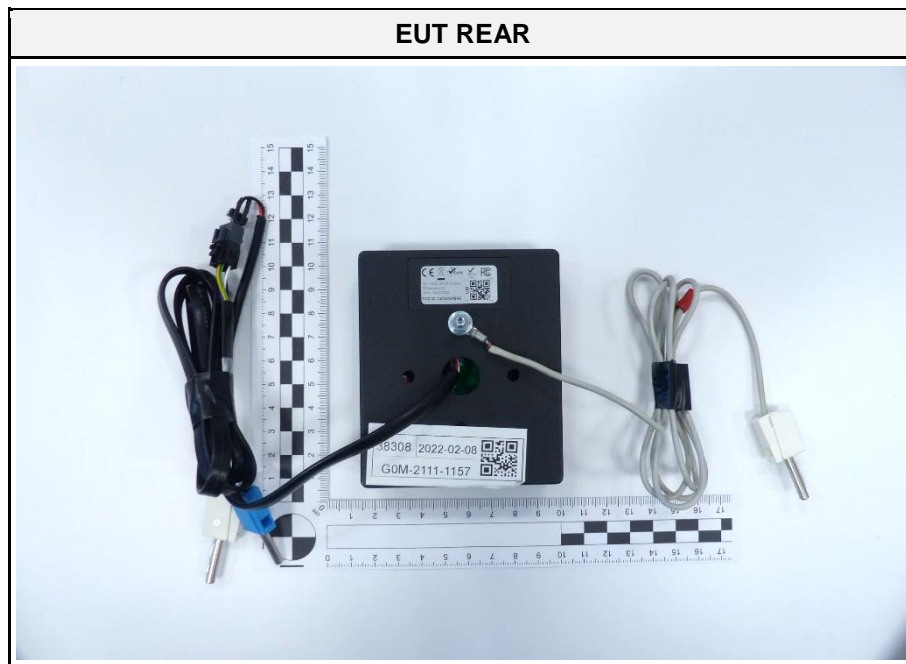
EUT PCB TOP with display



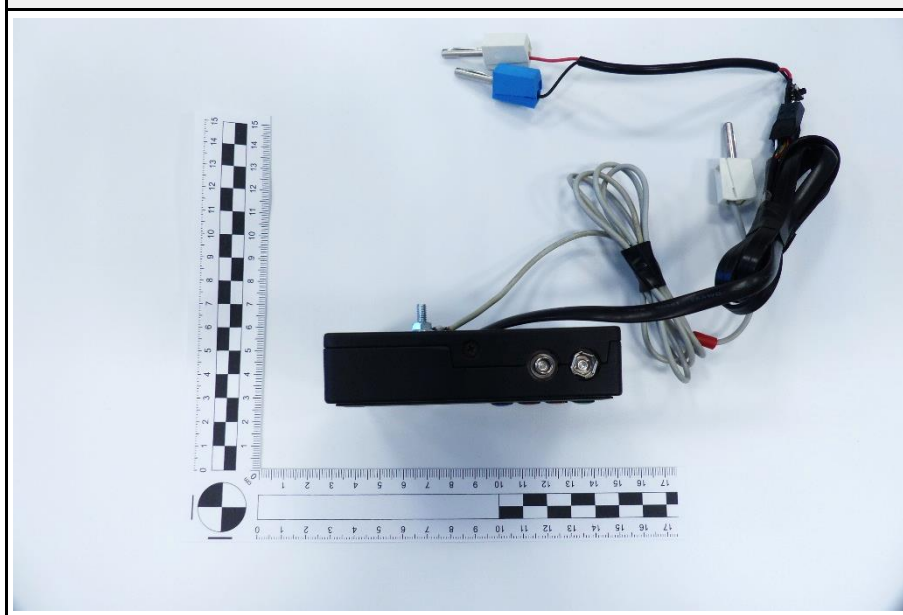
EUT PCB TOP with display backside



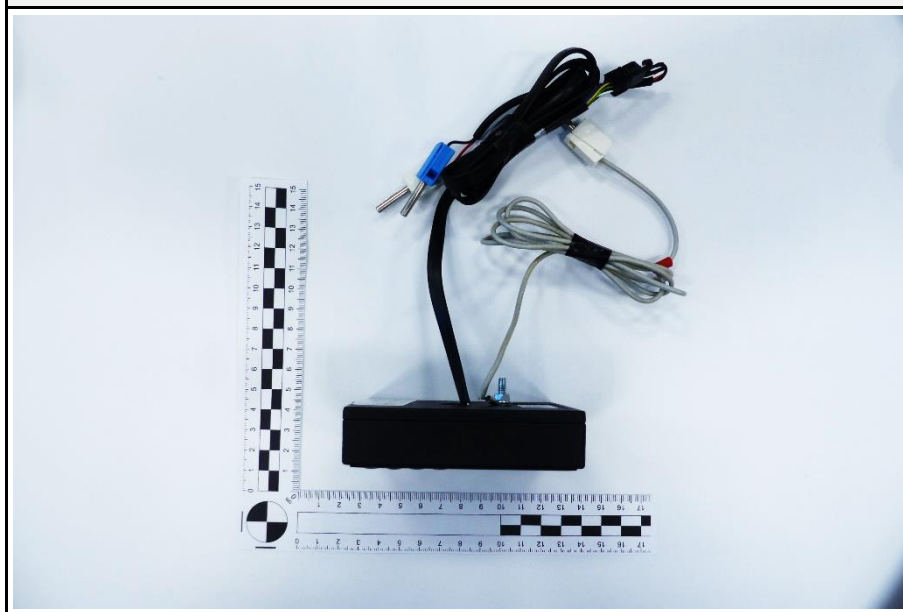
1.3 Equipment Photos - External



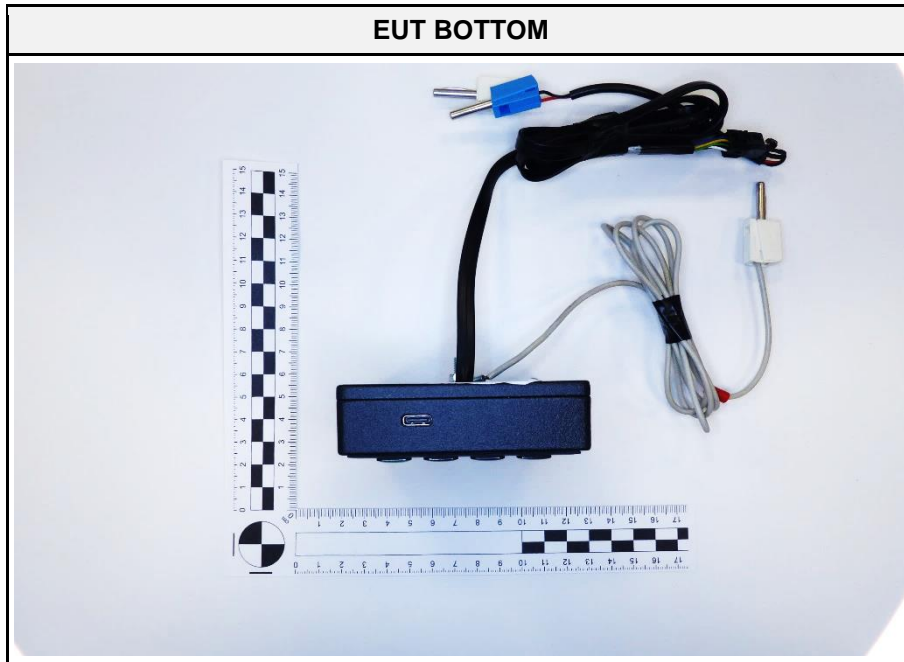
EUT RIGHT



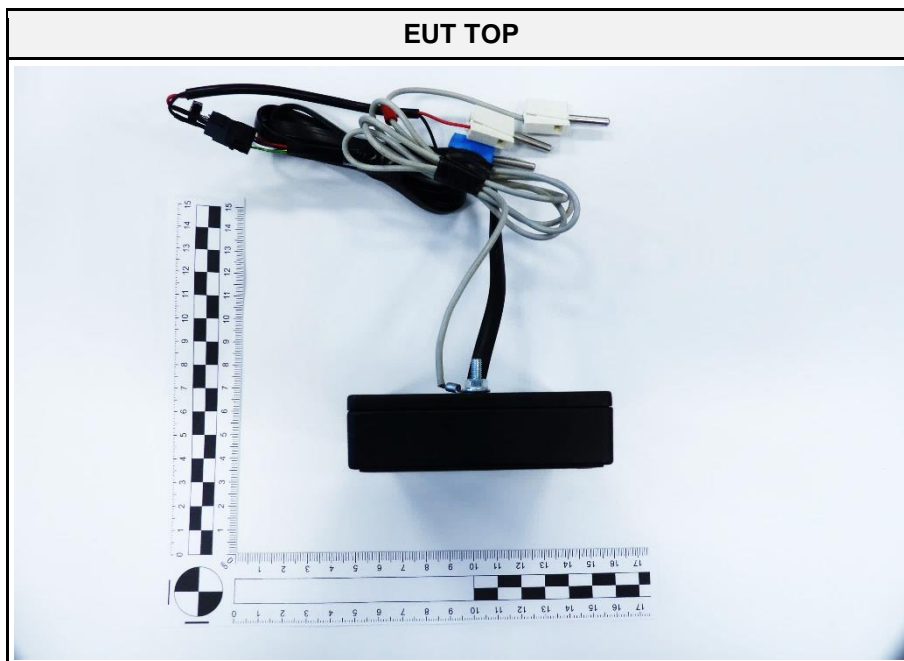
EUT LEFT

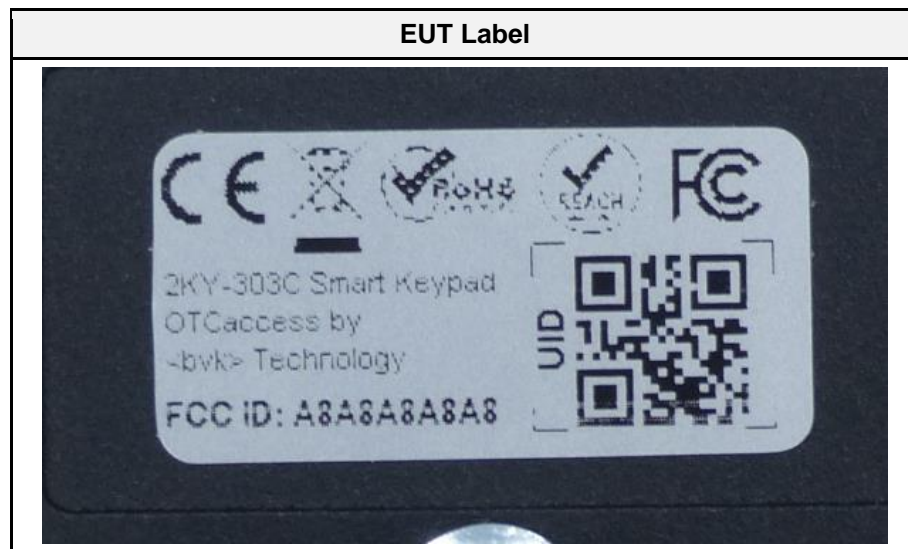


EUT BOTTOM



EUT TOP





1.4 Support Equipment

| Product Type | Device | Manufacturer | Model | Comment |
|--|----------------------|--------------|------------------|----------|
| AE | Spectrum Analyzer | R&S | FPL1007 | EF01683 |
| AE | AC/DC adaptor | sonero | MW3K10GS/X-PS020 | customer |
| Description: Spectrum Analyzer for visual check of Bluetooth Low Energy advertisement carriers. | | | | |
| AE | Auxiliary Equipment | | | |
| SIM | Simulator | | | |
| MON | Monitoring Equipment | | | |
| CBL | Connecting Cable | | | |
| Comment: | | | | |

1.5 Operational Modes

| Mode # | Description |
|----------|--|
| 1 | <p>Working Mode:</p> <p>It is a mode which simulates the working scenario. EUT sends data using its serial port and gets the data back thanks to special connector which makes loopback and displays returning data.</p> <p>The firmware which loaded to the keypad is a test firmware and sends data messages like counting numbers with 1second interval. It also displays the coming message to the display to make the display working/running.</p> <p>Bluetooth is on and send advertisement packets in 400ms interval.</p> |
| Comment: | |

1.6 EUT Configuration

| Configuration # | Description |
|-----------------|--|
| 1 | <p>EUT powered via 12V DC with laboratory power supply.</p> <p>EUT assembled with 1m power/data cable and 1m Protection earth cable only.</p> <p>Data wires on the cable (TX&RX) can short-circuited with a switch. Switch is state on "short-circuit"</p> <p>According customer requirement, additional USB-wire and 9V Alkaline battery was not connected during test.</p> <p>Measurement was performed with Power/data wire and protection earth wire only.</p> |
| 2 | <p>EUT powered via 120V AC / 60Hz (AC/DC adaptor).</p> <p>EUT assembled with 1m power/data cable and 1m Protection earth cable only.</p> <p>Data wires on the cable (TX&RX) can short-circuited with a switch. Switch is state on "short-circuit"</p> <p>According customer requirement, additional USB-wire and 9V Alkaline battery was not connected during test.</p> <p>Measurement was performed with Power/data wire and protection earth wire only.</p> |
| Comment: | |

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyser in dBµV. Any external preamplifiers used are taken into account through internal analyser settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyser. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

$$\text{Reading on Analyser (dB}\mu\text{V)} + \text{A.F. (dB/m)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log(\mu\text{V/m})$$

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

| | | | | |
|----------------------|---------------|---|---------------------------|-----------|
| Reading + AF | = Net Reading | : | Net reading - FCC limit | = Margin |
| +21.5 dBµV + 26 dB/m | = 47.5 dBµV/m | : | 47.5 dBµV/m - 57.0 dBµV/m | = -9.5 dB |

2 Result Summary

| Title 47 CFR Part 15B, ISED ICES-003 Issue 7 | | | | |
|--|-----------------------------------|-----------------------------|--------|---------|
| Reference | Requirement | Reference Method | Result | Remarks |
| Emission | | | | |
| FCC 15.109 ICES-003, 3.2.2 | Radiated emissions | ANSI C63.4:2014 +A1:2017 | PASS | - |
| FCC 15.107 ICES-003, 3.2.1 | AC power line conducted emissions | ANSI C63.4:2014 +A1:2017 | PASS | - |
| Comment: | | | | |

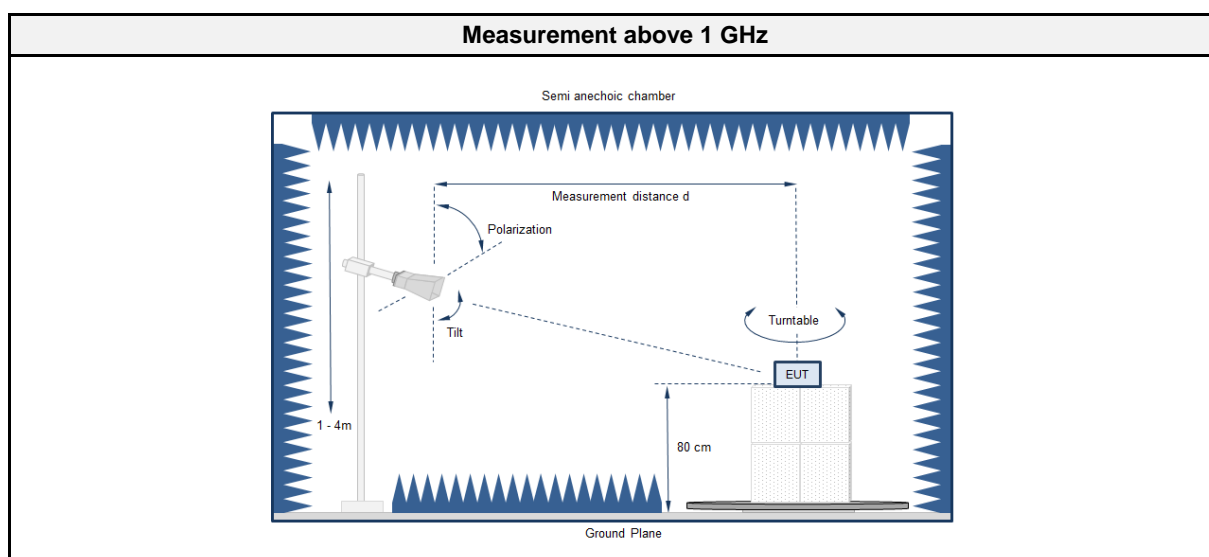
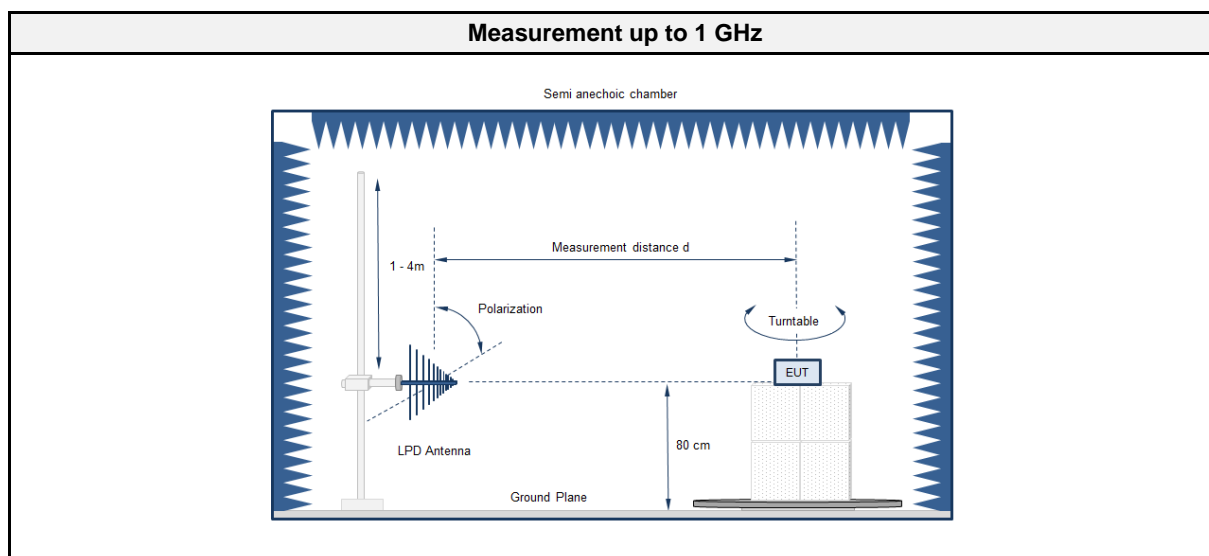
| Possible Test Case Verdicts | |
|-----------------------------|--|
| PASS | Test object does meet the requirements |
| FAIL | Test object does not meet the requirements |
| N/T | Required by standard but not tested |
| N/R | Not required by standard for the test object |

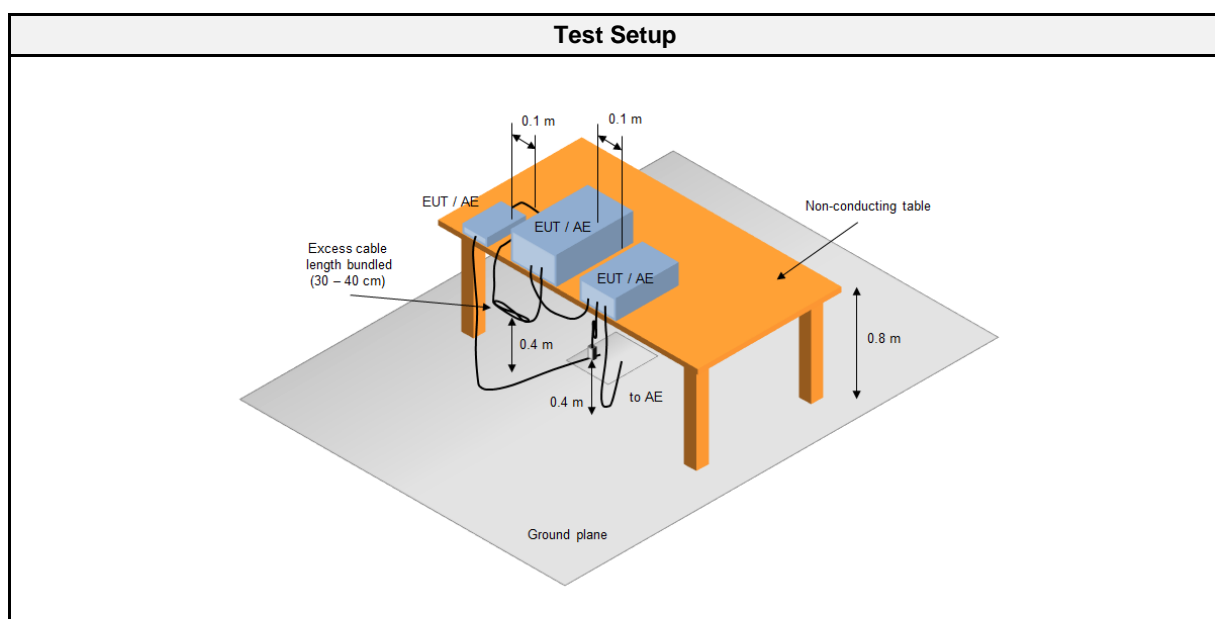
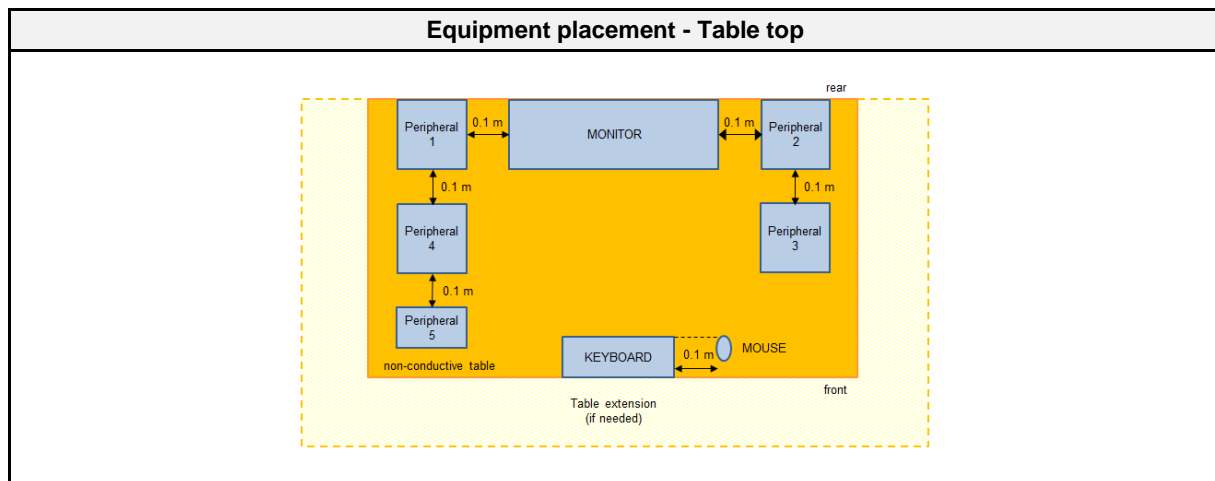
2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

2.1.1 Information

| Test Information | |
|----------------------------------|-----------------------------------|
| Reference | FCC 15.109, ICES-003, 3.2.2 |
| Reference method | ANSI C63.4:2014+A1:2017 Section 8 |
| Equipment class | Class B |
| Equipment type | Table top |
| Highest internal frequency [MHz] | 2400 |
| Measurement range | 30 MHz to 13000 MHz |
| Temperature [°C] | 19 ±3 |
| Humidity [%] | 28 ±3 |
| Operator | Matthias Handrik |
| Date | 2022-04-11 |

2.1.2 Setup





2.1.3 Equipment

| Test Software | | | |
|---------------|------------------|------------|----------|
| Description | Manufacturer | Name | Version |
| EMC Software | DARE Instruments | Radimation | 2020.1.8 |

| Test Equipment | | | | | |
|---------------------------|--------------------------------|----------------|------------|-----------|----------|
| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due |
| Anechoic chamber (NSA) | Frankonia | AC1 | EF00062 | 2021-02 | 2024-02 |
| Anechoic chamber (S-VSWR) | Frankonia | AC 1 | EF01011 | 2019-06 | 2022-06 |
| Programmable AC Source | Chroma ATE Inc. | 61604 | EF01068 | 2021-07 | 2022-07 |
| EMI Test Receiver | Keysight | N9038A-526/WXP | EF01070 | 2021-07 | 2022-07 |
| Biconical Antenna | R&S | HK 116 | EF00030 | 2021-05 | 2024-05 |
| LPD Antenna | R&S | HL 223 | EF00187 | 2019-05 | 2022-05 |
| Horn Antenna | Schwarzbeck | BBHA9120D | EF00018 | 2019-10 | 2022-10 |
| Temperature probes | Testo industrial services GmbH | HZ887 | EF01482 | 2021-07 | 2022-07 |
| Digital Multimeter | R&S | HMC8012 | EF01467 | 2021-08 | 2022-08 |

2.1.4 Procedure

| Exploratory measurement | |
|-------------------------|--|
| 1. | The EUT was placed on a non-conductive table at a height of 0.8m. |
| 2. | The EUT and support equipment, if needed, were set up to simulate typical usage. |
| 3. | Cables, of type and length specified by the manufacturer, were connected to at least one port of each type and were terminated by a device or simulating load of actual usage. |
| 4. | The antenna was placed at a distance of 3 or 10 m. |
| 5. | The received signal was monitored at the measurement receiver. |
| 6. | This procedure has to be performed in both antenna polarizations, horizontal and vertical. |
| 7. | The arrangement of the equipment with the maximum emission level is shown on the setup picture at item 2.1.2 |

| Final measurement | |
|-------------------|---|
| 1. | The EUT was placed on a 0.8 m non-conductive table at a 3 m distance from the receive antenna. The antenna output was connected to the measurement receiver. |
| 2. | A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast. |
| 3. | The EUT and cable arrangement were based on the exploratory measurement results. |
| 4. | Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded. |
| 5. | The test data of the worst-case conditions were recorded and shown on the next pages. |

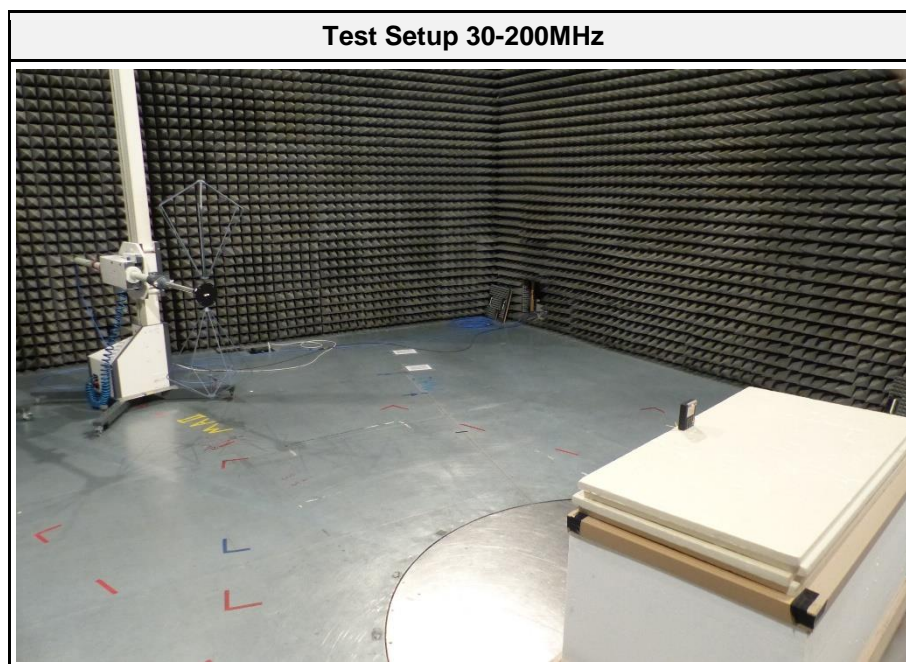
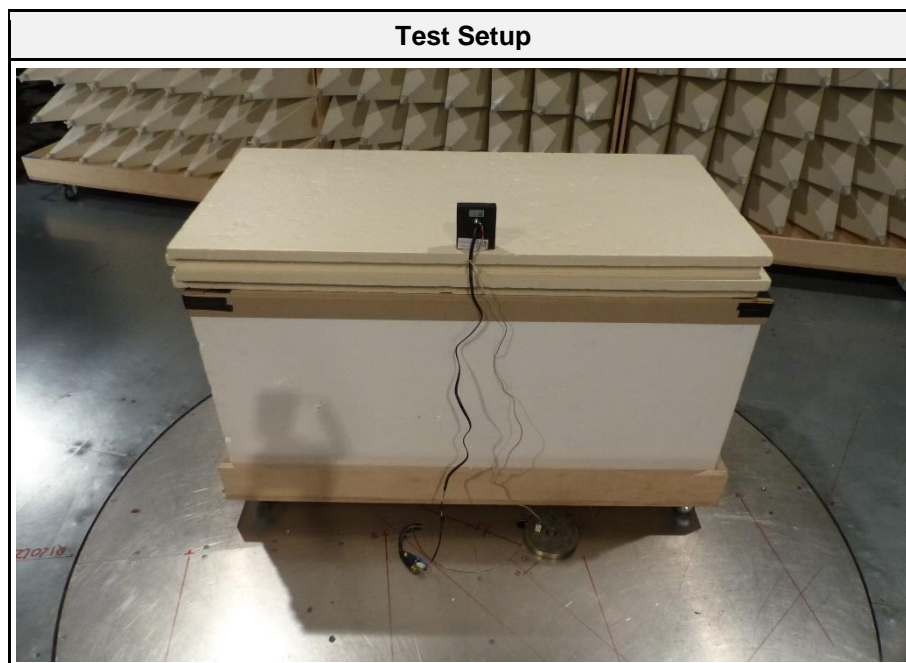
2.1.5 Limits

| Class B @ 3 m | | |
|-----------------|------------|----------------------|
| Frequency [MHz] | Detector | Limit [dB μ V/m] |
| 30 - 88 | Quasi-peak | 40 |
| 88 - 216 | Quasi-peak | 43.5 |
| 216 - 960 | Quasi-peak | 46 |
| 960 - 1000 | Quasi-peak | 54 |
| > 1000 | Peak | 74 |
| | Average | 54 |

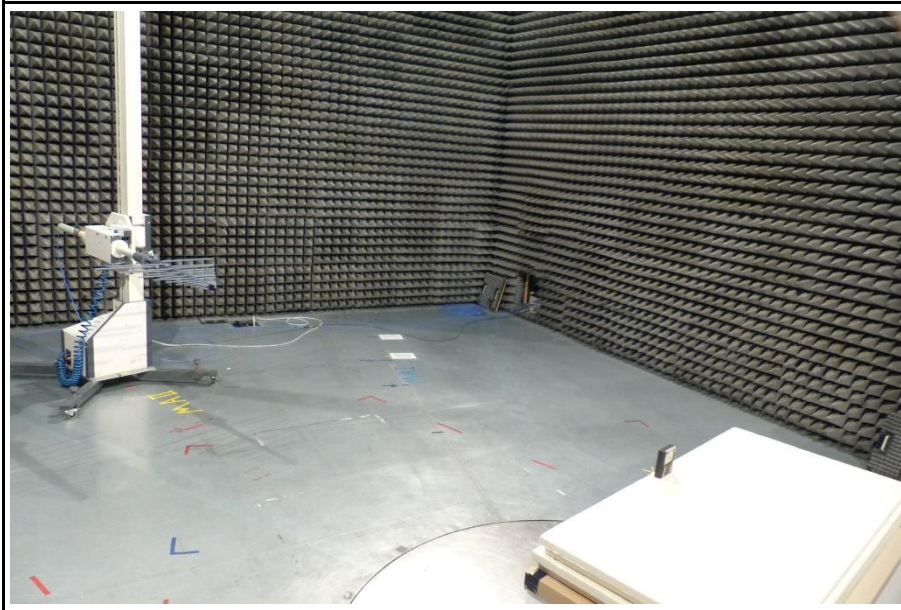
2.1.6 Results

| Test Results | | | |
|------------------|-------------------|---------|--------|
| Operational mode | EUT Configuration | Verdict | Remark |
| 1 | 1 | PASS | - |

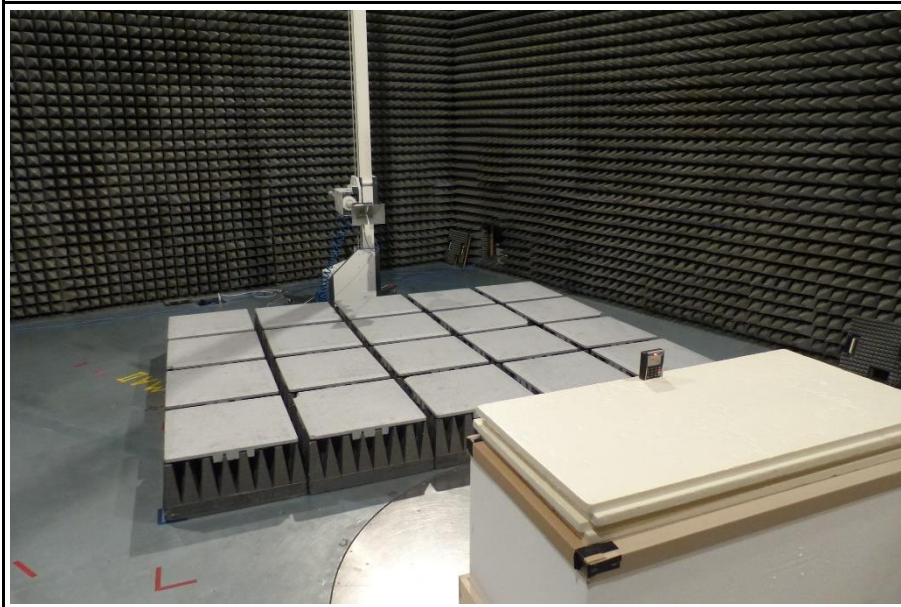
2.1.7 Setup Photos



Test Setup 200-1000MHz



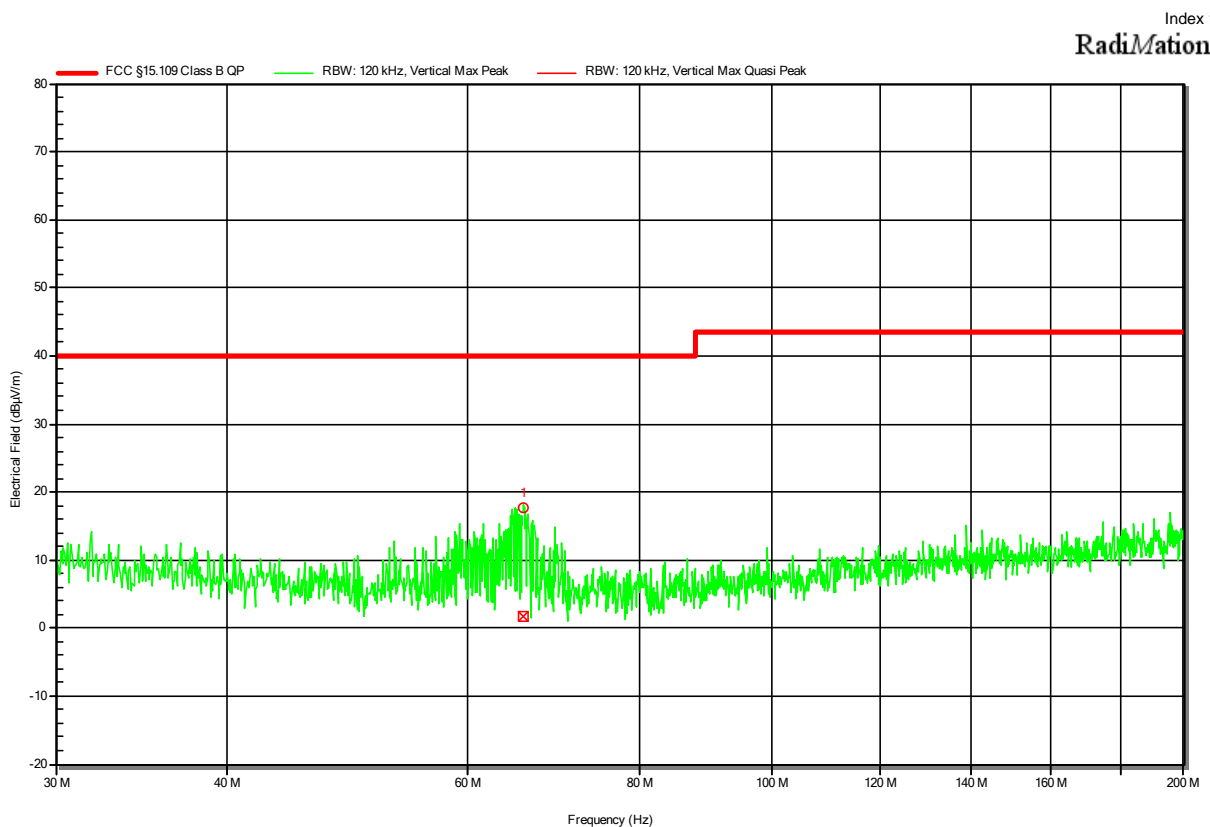
Test Setup 1000-13000MHz



2.1.8 Records

Radiated emissions according to FCC part 15B

Project Number: G0M-2111-1157
 Applicant: BVK TEKNOLOJI ANONIM SIRKETI
 Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
 Model: 2KY-303C
 Test Sample ID: 38308
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2022-04-11
 Operating Conditions: ambient temperature: 19 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1:



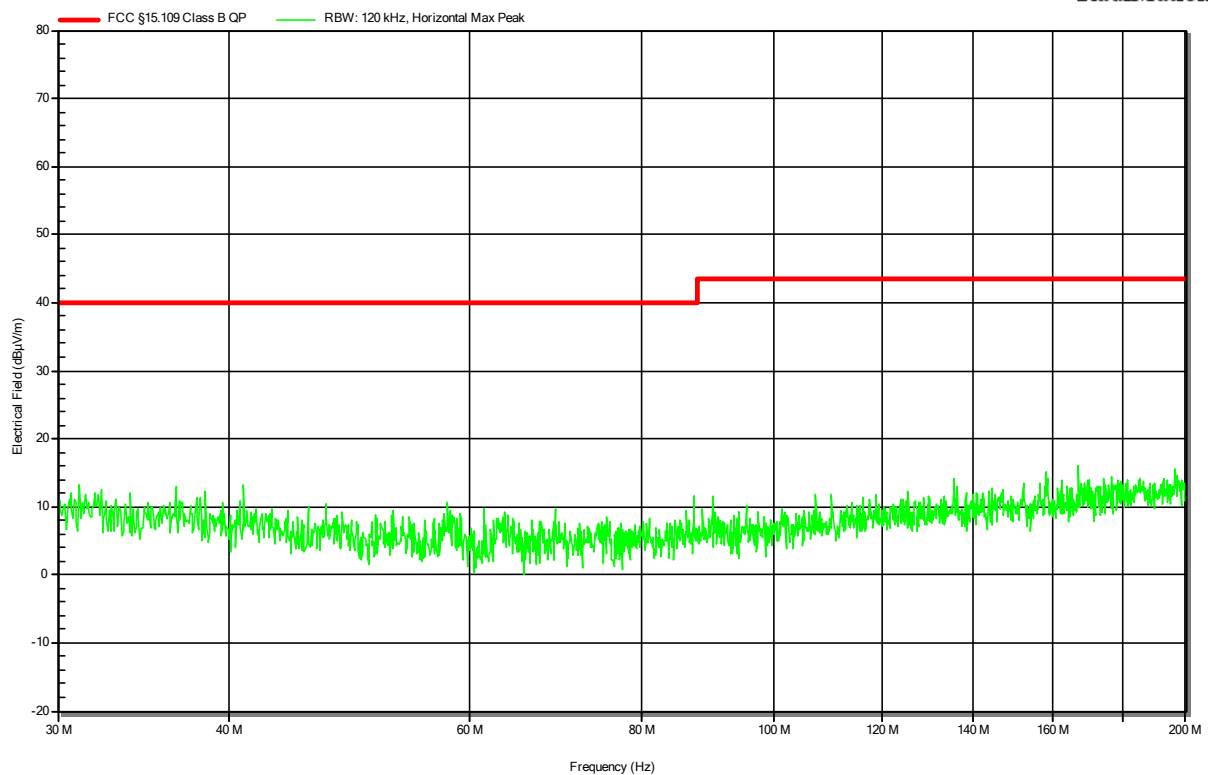
| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|-------------|------------|-------------|------------------|-----------------------|-------------------|-------------|--------|
| 1 | 65.895 MHz | 1.73 dBµV/m | 40 dBµV/m | -38.27 dB | Pass | 180 degrees | 1 m |

Radiated emissions according to FCC part 15B

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 Applicant: BVK TEKNOLOJI ANONIM SIRKETI
 Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
 Model: 2KY-303C
 Test Sample ID: 38308
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2022-04-11
 Operating Conditions: ambient temperature: 19 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1:

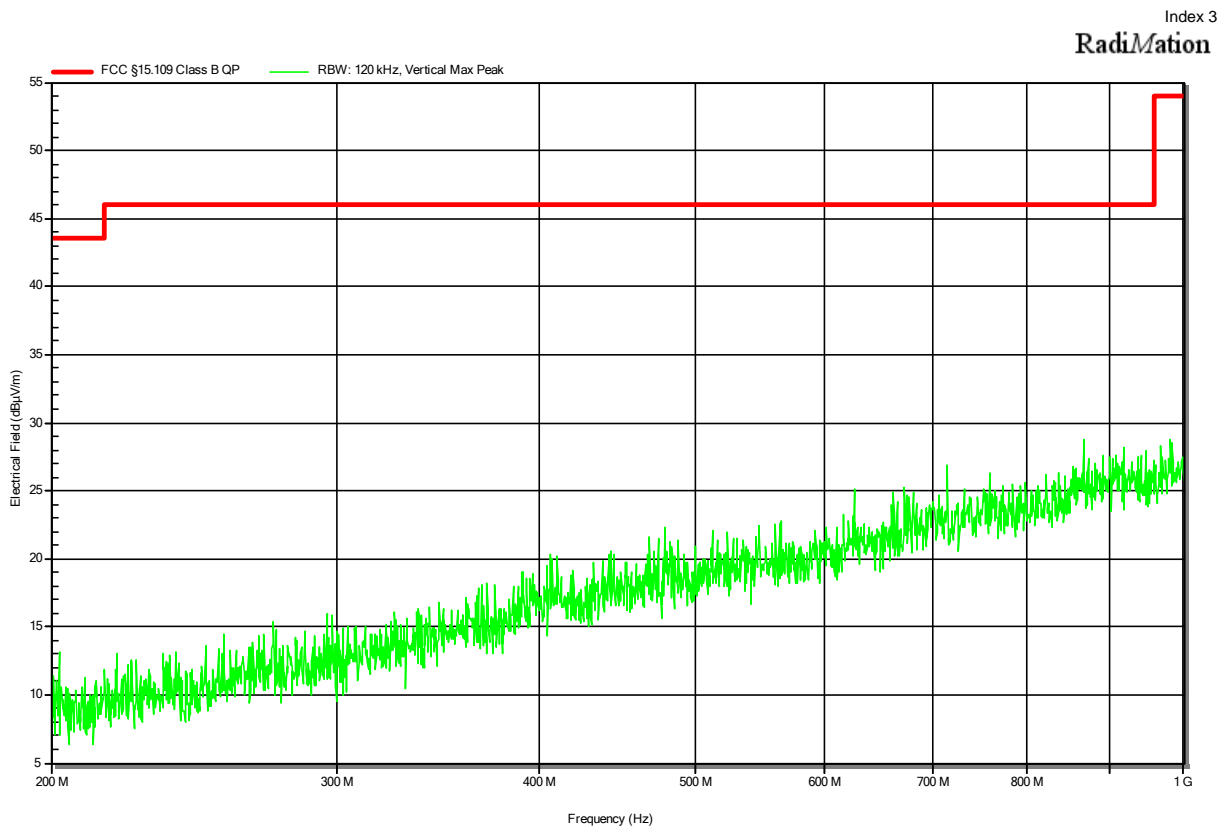
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RadiMation



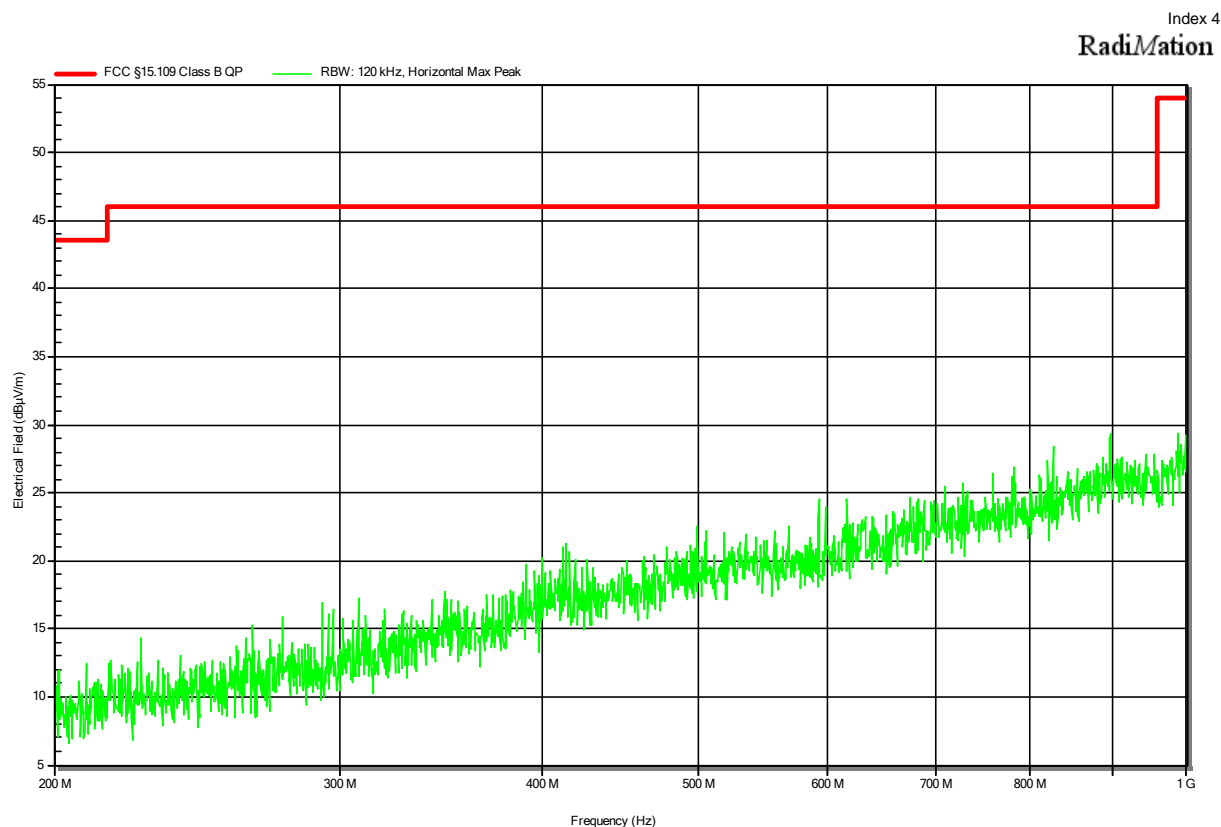
Radiated emissions according to FCC part 15B

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 Applicant: BVK TEKNOLOJI ANONIM SIRKETI
 Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
 Model: 2KY-303C
 Test Sample ID: 38308
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2022-04-11
 Operating Conditions: ambient temperature: 19 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1:



Radiated emissions according to FCC part 15B

Project Number: G0M-2111-1157
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 Test Sample ID: 38308
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2022-04-11
 Operating Conditions: ambient temperature: 19 °Celsius
 power input: 12V DC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1:

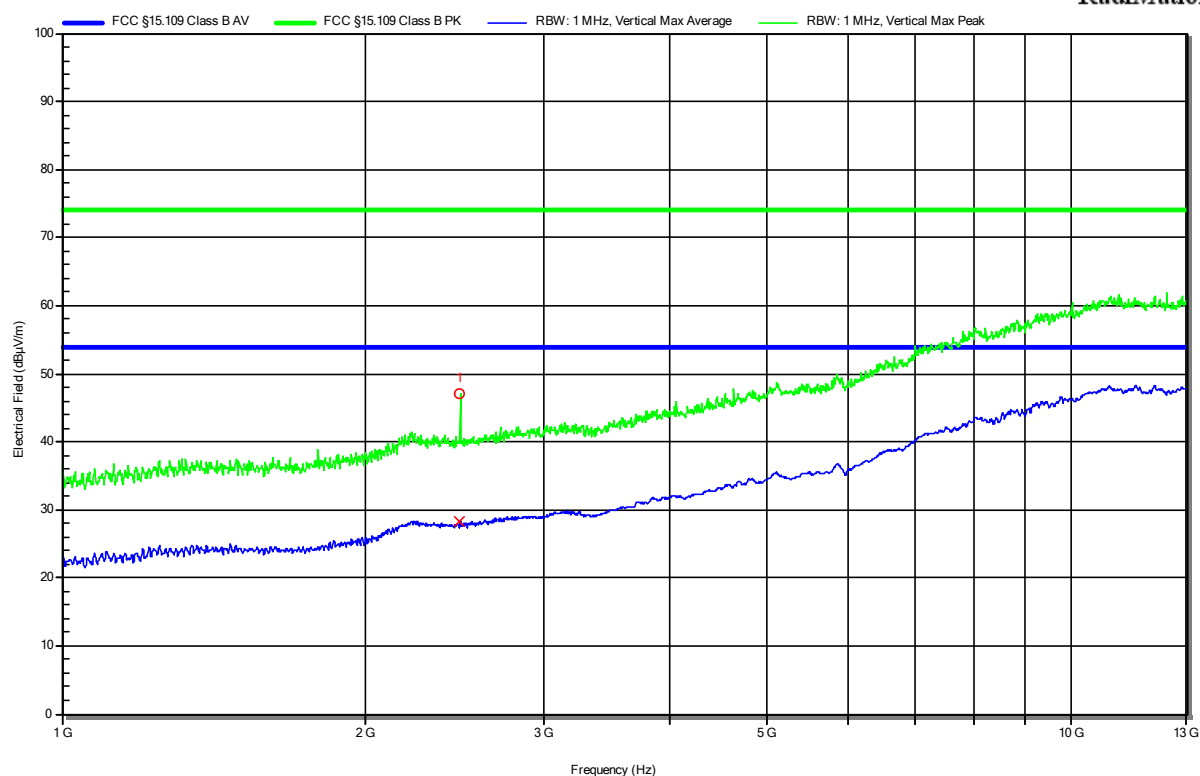


**Radiated emissions
according to FCC part 15B**

Project Number: G0M-2111-1157
 Applicant: BVK TEKNOLOJI ANONIM SIRKETI
 Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
 Model: 2KY-303C
 Test Sample ID: 38308
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Date: 2022-04-11
 Operating Conditions: ambient temperature: 19 °Celsius
 power input: 12V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement Distance: 3m
 Operational Mode: 1
 EUT Configuration: 1
 Note 1:

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RadiMation



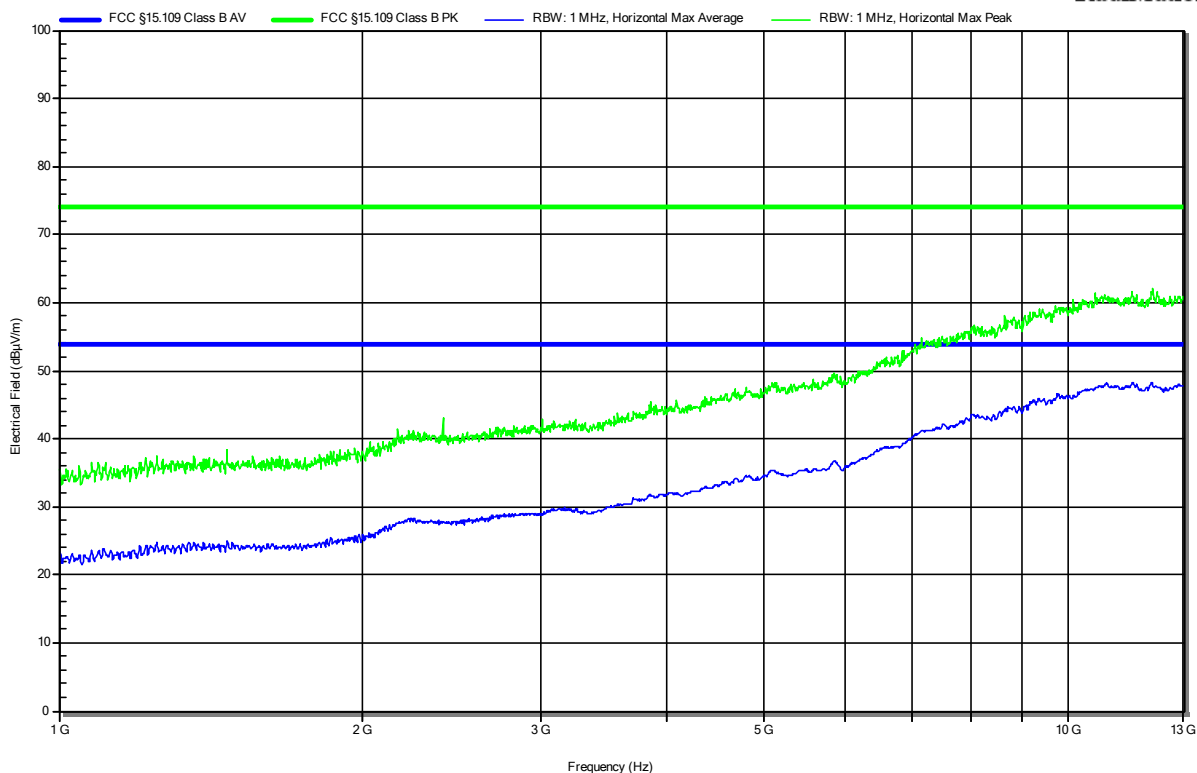
| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|-------------|-----------|--|------------|-----------------|-------------|-------|--------|
| 1 | 2.479 GHz | Bluetooth Low Energy advertisement carrier | | | | | |

Radiated emissions according to FCC part 15B

Project Number: G0M-2111-1157
Applicant: BVK TEKNOLOJI ANONIM SIRKETI
Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
Model: 2KY-303C
Test Sample ID: 38308
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Date: 2022-04-11
Operating Conditions: ambient temperature: 19 °Celsius
power input: 12V DC
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement Distance: 3m
Operational Mode: 1
EUT Configuration: 1
Note 1:

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RadiMation



2.2.3 Equipment

| Test Software | | | |
|---------------|------------------|------------|----------|
| Description | Manufacturer | Name | Version |
| EMC Software | DARE Instruments | Radimation | 2020.1.8 |

| Test Equipment | | | | | |
|--------------------|--------------------------------|-----------|------------|-----------|----------|
| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due |
| AMN | Schwarzbeck | NSLK 8127 | EF01592 | 2021-07 | 2022-07 |
| Pulse Limiter | R&S | ESH3-Z2 | EF01063 | 2021-07 | 2022-07 |
| EMI Test Receiver | R&S | ESR 7 | EF00943 | 2021-08 | 2022-08 |
| Temperature probes | Testo industrial services GmbH | HZ887 | EF01482 | 2021-07 | 2022-07 |
| Digital Multimeter | R&S | HMC8012 | EF01467 | 2021-08 | 2022-08 |

2.2.4 Procedure

| Exploratory measurement |
|--|
| <ol style="list-style-type: none"> 1. The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) 2. The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. 3. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). 4. The LISN measurement port was connected to a measurement receiver 5. I/O cables were bundled not longer than 0.4 m 6. Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor 7. To maximize the emissions the cable positions were manipulated 8. The worst configuration of EUT and cables is shown on a test setup picture at item 2.2.2 |

| Final measurement |
|--|
| <ol style="list-style-type: none"> 1. The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2014 item 7.3.1) 2. The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN. 3. The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length). 4. The LISN measurement port was connected to a measurement receiver 5. The EUT and cable arrangement were based on the exploratory measurement results 6. The test data of the worst-case conditions were recorded and shown on the next pages |

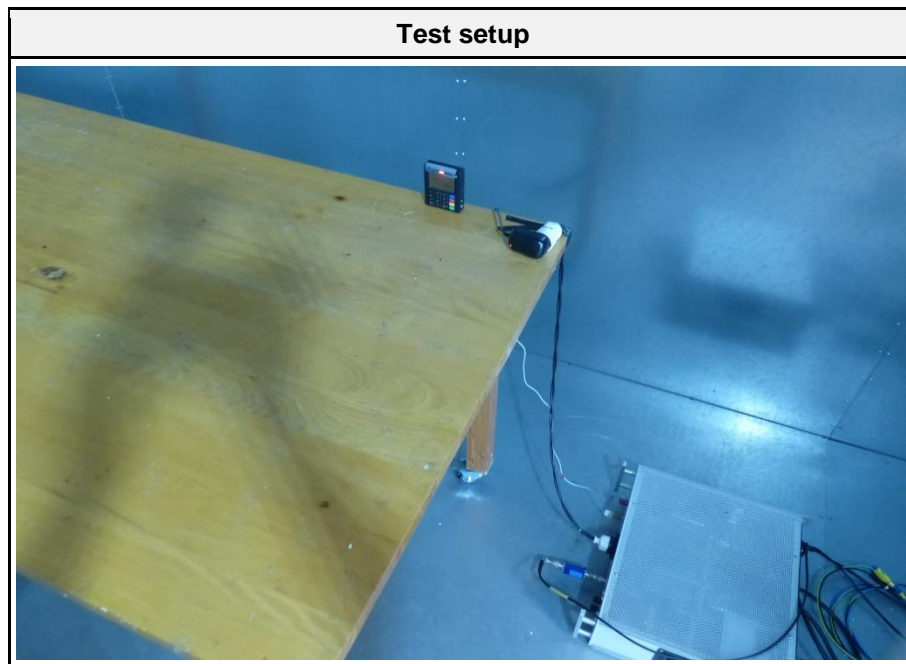
2.2.5 Limits

| Class B | | |
|---|----------------------------|-------------------------|
| Frequency [MHz] | Quasi-peak Limit [dBμV] | Average Limit [dBμV] |
| 0.15 - 0.5 | 66 - 56 * | 56 - 46 * |
| 0.5 - 5 | 56 | 46 |
| 5 - 30 | 60 | 50 |
| * Decreases with the logarithm of the frequency | | |

2.2.6 Results

| AC power line conducted emissions | | | | | |
|-----------------------------------|----------|------------------|-------------------|---------|--------|
| Port | Coupling | Operational mode | EUT Configuration | Verdict | Remark |
| Power | AMN | 1 | 1 | PASS | - |

2.2.7 Setup Photos



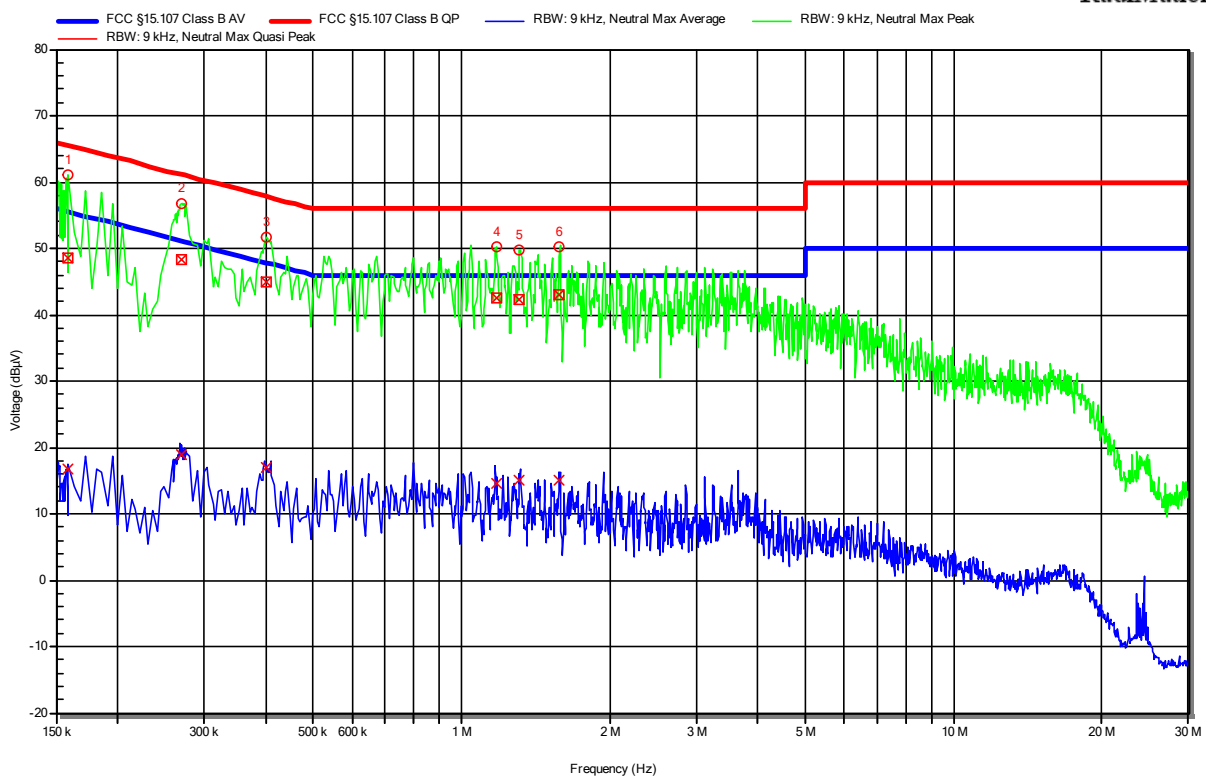
2.2.8 Records

Conducted emissions at the mains power port according to FCC part 15B

Project Number: G0M-2111-1157
Applicant: BVK TEKNOLOJİ ANONİM ŞİRKETİ
Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
Model: 2KY-303C
Test Sample ID: 38308
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Date: 2022-04-11
Operating Conditions: ambient temperature: 21 °Celsius
power input: 120V AC / 60 Hz
LISN: Schwarzbeck NSLK 8127 RC N
Operational Mode: 1
EUT Configuration: 2
Applied to Port: AC-mains
Note 1:

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RadiMation



| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | LISN |
|-------------|-----------|------------|------------------|-----------------------|-------------------|---------|
| 1 | 159 kHz | 48.62 dBµV | 65.52 dBµV | -16.89 dB | Pass | Neutral |
| 2 | 270.6 kHz | 48.23 dBµV | 61.1 dBµV | -12.86 dB | Pass | Neutral |
| 3 | 401.1 kHz | 45.05 dBµV | 57.83 dBµV | -12.79 dB | Pass | Neutral |
| 4 | 1.175 MHz | 42.53 dBµV | 56 dBµV | -13.47 dB | Pass | Neutral |
| 5 | 1.313 MHz | 42.28 dBµV | 56 dBµV | -13.72 dB | Pass | Neutral |
| 6 | 1.584 MHz | 42.91 dBµV | 56 dBµV | -13.09 dB | Pass | Neutral |

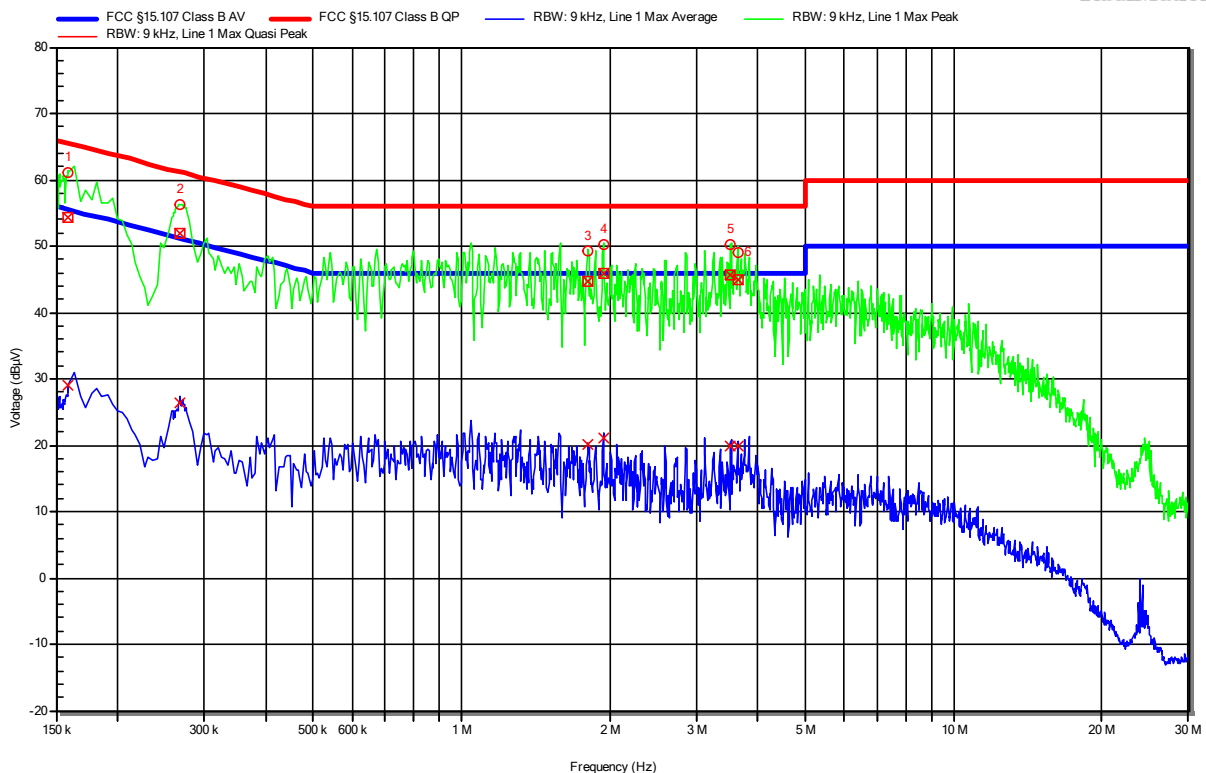
| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | LISN |
|-------------|-----------|------------|---------------|--------------------|----------------|---------|
| 1 | 159 kHz | 16.8 dBµV | 55.52 dBµV | -38.72 dB | Pass | Neutral |
| 2 | 270.6 kHz | 18.91 dBµV | 51.1 dBµV | -32.19 dB | Pass | Neutral |
| 3 | 401.1 kHz | 16.94 dBµV | 47.83 dBµV | -30.89 dB | Pass | Neutral |
| 4 | 1.175 MHz | 14.62 dBµV | 46 dBµV | -31.38 dB | Pass | Neutral |
| 5 | 1.313 MHz | 14.96 dBµV | 46 dBµV | -31.04 dB | Pass | Neutral |
| 6 | 1.584 MHz | 15.15 dBµV | 46 dBµV | -30.85 dB | Pass | Neutral |

Conducted emissions at the mains power port according to FCC part 15B

Project Number: G0M-2111-1157
Applicant: BVK TEKNOLOJI ANONIM SIRKETI
Model Description: OTCaccess MiniSmart Bluetooth Keypad Indoor
Model: 2KY-303C
Test Sample ID: 38308
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Date: 2022-04-11
Operating Conditions: ambient temperature: 21 °Celsius
power input: 120V AC / 60 Hz
LISN: Schwarzbeck NSLK 8127 RC L
Operational Mode: 1
EUT Configuration: 2
Applied to Port: AC-Mains
Note 1:

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Radiation



| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | LISN |
|-------------|-----------|------------|------------------|-----------------------|-------------------|--------|
| 1 | 159 kHz | 54.22 dBμV | 65.52 dBμV | -11.3 dB | Pass | Line 1 |
| 2 | 268.8 kHz | 51.99 dBμV | 61.15 dBμV | -9.16 dB | Pass | Line 1 |
| 3 | 1.805 MHz | 44.8 dBμV | 56 dBμV | -11.2 dB | Pass | Line 1 |
| 4 | 1.94 MHz | 45.93 dBμV | 56 dBμV | -10.07 dB | Pass | Line 1 |
| 5 | 3.521 MHz | 45.55 dBμV | 56 dBμV | -10.45 dB | Pass | Line 1 |
| 6 | 3.638 MHz | 44.94 dBμV | 56 dBμV | -11.06 dB | Pass | Line 1 |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | LISN |
|-------------|-----------|------------|---------------|--------------------|----------------|--------|
| 1 | 159 kHz | 28.97 dBμV | 55.52 dBμV | -26.55 dB | Pass | Line 1 |
| 2 | 268.8 kHz | 26.27 dBμV | 51.15 dBμV | -24.88 dB | Pass | Line 1 |
| 3 | 1.805 MHz | 20.04 dBμV | 46 dBμV | -25.96 dB | Pass | Line 1 |
| 4 | 1.94 MHz | 21.1 dBμV | 46 dBμV | -24.9 dB | Pass | Line 1 |
| 5 | 3.521 MHz | 19.99 dBμV | 46 dBμV | -26.01 dB | Pass | Line 1 |
| 6 | 3.638 MHz | 19.86 dBμV | 46 dBμV | -26.14 dB | Pass | Line 1 |

3 Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95%, with a coverage factor of 2.

| Test Name | Measurement Uncertainty |
|---|---|
| Conducted emissions at the mains power port | 150kHz to 30MHz, 3.35dB |
| Radiated Emission | 30MHz to 200MHz @ 3m, 5.1dB 200MHz to 1GHz @ 3m, 5.3dB >1GHz to 18GHz @3m, 5.95dB |