# EMC TEST REPORT

**Title 47 CFR Part 15B, ISED ICES-003 Issue 7**

| | |
|---|---|
| **Report Reference No** | G0M-2108-9972-EF0115B-V01 |
| **Testing Laboratory** | Eurofins Product Service GmbH |
| Address | Storkower Str. 38c<br>15526 Reichenwalde<br>Germany |
| Accreditation | A2LA - Registration number: 1983.01 (ISED)<br>ISED wireless device testing laboratory: CN 3470A<br>DAkkS - Registration number : D-PL-12092-01-04 (FCC)<br>FCC Filed Test Laboratory, Reg.-No.: 96970 |
| **Applicant** | Leica Geosystems AG |
| Address | Heinrich-Wild-Strasse<br>9435 Heerbrugg<br>SWITZERLAND |
| **Test Specification**<br>Standard(s) | Title 47 CFR Part 15 Subpart B<br>ISED ICES-003 Issue 7<br>ANSI C63.4:2014+A1:2017 |
| Non-Standard Test Method | None |
| **Equipment under Test (EUT):** | |
| Product Description | Imaging Laser Scanner |
| Model(s) | BLK360 G2 |
| Additional Model(s) | None |
| Brand Name(s) | Leica |
| Hardware Version(s) | 918900_B BLK360 G2 Scanner |
| Software Version(s) | 0.1.7-cert |
| FCC-ID | RFD-BLK360G2 |
| IC | 3177A–BLK360G2 |
| **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 | 2021-10-04 | |
| **Report:** | | |
| Compiled by | Matthias Handrik | |
| Tested by (+ signature)<br>(Responsible for Test) | Matthias Handrik | ..... |
| Approved by (+ signature)<br>(Test Technician) | Andreas Pflug | ..... |
| Date of Issue | 2021-11-12 | |
| Total number of pages | 89 | |
| **General Remarks:** | | |
| **The test results presented in this report relate only to the object tested.**<br>**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.**<br>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. | | |
| **Additional Comments:** | | |
| | | |

## 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 | 2021-11-12 | Initial Release | |

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# 1 Equipment (Test Item) Under Test

| | | |
|---|---|---|
| Description | Imaging Laser Scanner | |
| Intended use | The BLK360 G2 captures with 4 cameras high-resolution 360° panoramic images in LDR or HDR quality. Tracks the movement of the scanner relative to the previous setup in real-time by using visual inertial system (VIS). The RGB and 3D information are stored on the integrated storage device.<br>A class 1 laser is deflected by a fast-rotating mirror which sits on a slow rotating base to create 3d information with Lidar (distance) and encoders (angles). The 3D information is stored on the integrated storage device. | |
| Model | BLK360 G2 | |
| Additional Model(s) | None | |
| Brand Name(s) | Leica | |
| Serial Number(s) | EUT 1: 2060095<br>EUT 2: 2060093 | |
| Sample-ID | EUT 1: 36459<br>EUT 2: 36463 | |
| Hardware Version(s) | 918900_B BLK360 G2 Scanner | |
| Software Version(s) | 0.1.7-cert | |
| EUT Dimensions [cm] | 15.5 x diameter 8.0 | |
| FCC-ID | RFD-BLK360G2 | |
| IC | 3177A–BLK360G2 | |
| Class | Class B | |
| Equipment type | Table top | |
| Highest internal frequency [MHz] | 5850 | |
| Radio Module I | Type | IEEE 802.11 b, g, n / a, ac, n module |
| | Model | QCNFA324 |
| | Manufacturer | Qualcomm Atheros, Inc. |
| | Hardware Version(s) | V02 |
| | Software Version(s) | BSP 3.2 |
| | FCC-ID | PPD-QCNFA324 |
| | IC | 4104A-QCNFA324 |
| Radio Module II | Type | Bluetooth module |
| | Model | QCNFA324 |
| | Manufacturer | Qualcomm Atheros, Inc. |
| | Hardware Version(s) | V02 |
| | Software Version(s) | BSP 3.2 |
| | FCC-ID | PPD-QCNFA324 |
| | IC | 4104A-QCNFA324 |
| Supply Voltage | $V_{NOM}$ | 7.2 VDC (Rechargeable Lithium battery)<br>5V DC via USB 3.0 |
| AC/DC-Adaptor | None | |
| Manufacturer | Leica Geosystems AG<br>Heinrich-Wild-Strasse<br>9435 Heerbrugg<br>SWITZERLAND | |

## 1.1 Equipment Ports

| Name | Type | Attributes | Comment |
|---|---|---|---|
| USB C | DC<br>I/O | Count: 1<br>Direction: IO<br>Max. cable length [m]: 1m<br>Shielded: Yes<br>Service only: No | Shield connected on both sites |

| 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 |

## 1.4 Support Equipment

| Product Type | Device | Manufacturer | Model | Comment |
|---|---|---|---|---|
| AE | Laptop | HP | EliteBook SN# 5CG846OF98 | Customer Support Equipment |
| AE | Laptop AC/DC adaptor | HP | TPN-CA06 | Customer Support Equipment |
| AE | Li-Ion Battery GEB825 | Leica-Geosystems AG | 925081 | Customer Support Equipment |
| CBL | USB wire GEV278 | Leica-Geosystems AG | 879634 | Customer Support Equipment |
| Description: | | | | |
| AE | Auxiliary Equipment | | | |
| SIM | Simulator | | | |
| MON | Monitoring Equipment | | | |
| CBL | Connecting Cable | | | |
| Comment: | | | | |

## 1.5 Operational Modes

| Mode # | Description |
|---|---|
| 1 | EUT 1:<br>With Matlab scipt running on Laptop:<br>Laser scan with one turn of 360° and distance measurement.<br>Every camera takes one picture.<br>Via 2.4GHz WLAN connection were visualised this data on Laptop.<br>Bluetooth classic connection to Laptop. Laptop starts inquires can and EUT answer on inquiries. |
| 2 | EUT 2:<br>With Matlab scipt running on Laptop:<br>Laser scan with one turn of 360° and distance measurement.<br>Every camera takes one picture.<br>Via 5GHz WLAN connection were visualised this data on Laptop.<br>Bluetooth classic connection to Laptop. Laptop starts inquires can and EUT answer on inquiries. |
| 3 | EUT 1:<br>2.4GHz WLAN connection to Laptop (Ping).<br>USB charging + USB data transfer (USB connection with USB–iperf and VIS functionality Record four videos).<br>Bluetooth classic connection to Laptop. Laptop starts inquires can and EUT answer on inquiries. |
| 4 | EUT 2:<br>5GHz WLAN connection to Laptop (Ping).<br>USB charging + USB data transfer (USB connection with USB–iperf and VIS functionality Record four videos).<br>Bluetooth classic connection to Laptop. Laptop starts inquires can and EUT answer on inquiries. |
| Comment: | |

## 1.6 EUT Configuration

| Configuration # | Description |
|---|---|
| 1 | EUT powered via internal Battery.<br>Laptop is placed inside the measurement chamber. |
| 2 | EUT assembled with Battery and USB-C wire.<br>USB-C wire connection to Laptop.<br>Laptop is placed inside the measurement chamber. |
| 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:

Reading on Analyser (dBµV) + A.F. (dB/m) = Net field strength (dBµV/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:

Limit (dBµV/m) = 20*log (µV/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<br>ICES-003, 3.2.2 | Radiated emissions | ANSI C63.4:2014<br>+A1:2017 | PASS | - |
| FCC 15.107<br>ICES-003, 3.2.1 | AC power line conducted emissions | ANSI C63.4:2014<br>+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 |

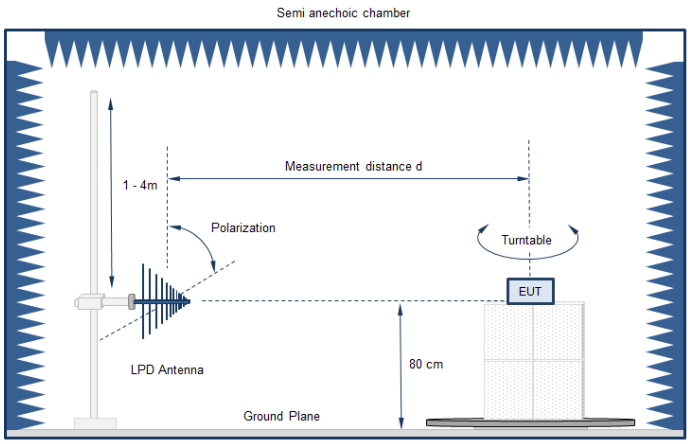
## 2.1 Test Conditions and Results - Radiated emissions acc. to ANSI C63.4

### 2.1.1 Information

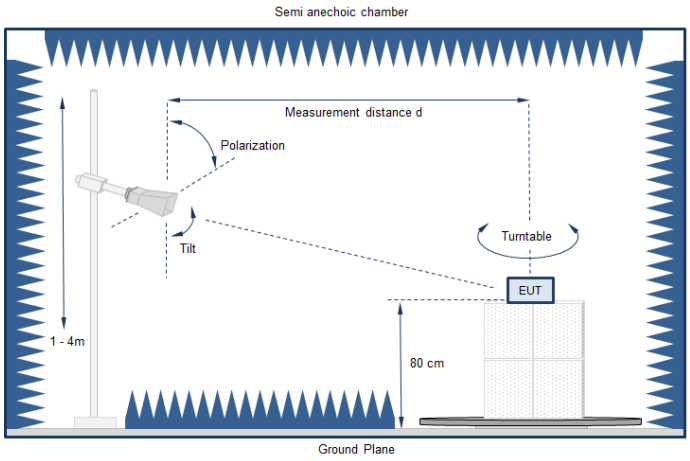
| Test Information | |
|---|---|
| Reference | FCC 15.109, ICES-003, 3.2.2 |
| Reference method | ANSI C63.4:2014+A1:2017 Section 8 |
| Equipment class | Class B |
| Equipment type | Table top |
| Highest internal frequency [MHz] | 5850 |
| Measurement range | 30 MHz to 6000 MHz |
| Temperature [°C] | 21 ±3 |
| Humidity [%] | 45 ±3 |
| Operator | Matthias Handrik |
| Date | 2021-10-22 – 2021-10-28 |

### 2.1.2 Setup

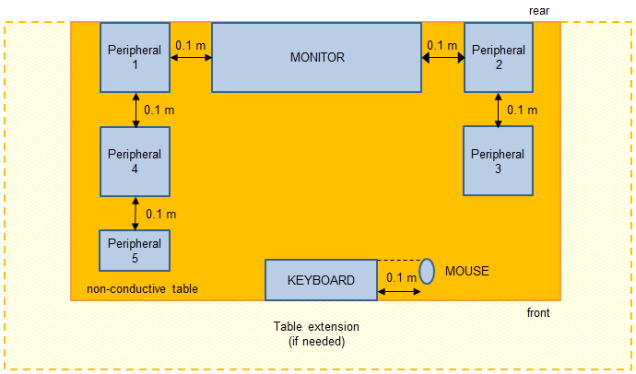
**Measurement up to 1 GHz**



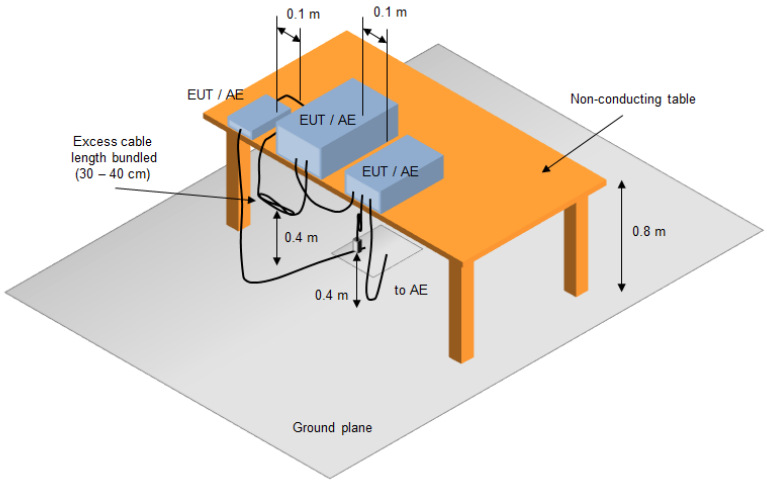

**Measurement above 1 GHz**



**Equipment placement - Table top**




**Test 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 (SVSWR) | 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 |
| 40GHz Standard Standard Gain Horn Antenna with Amplifier | Flann Microwave Ltd | 22240-25 Amp. CBL26402075 | EF00301 | 2019-12 | 2022-12 |
| 40GHz High Gain Antenna | Amplifier Research | AT4560 | EF00302 | 2021-06 | 2023-06 |
| Spectrum analyzer | Rohde & Schwarz GmbH & Co. KG | FSU43 | EF01631 | 2021-07 | 2022-07 |
| Climatic Sensor | Embedded Data Systems, LLC. | 2800100000254 17E | EF01054 | 2021-03 | 2022-03 |

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 [dBµV/m] |
| 30 - 88 | Quasi-peak | 40 |
| 88 - 216 | Quasi-peak | 43.5 |
| 216 - 960 | Quasi-peak | 46 |
| 960 - 1000 | Quasi-peak | 54 |
| > 1000 | Peak<br>Average | 74<br>54 |

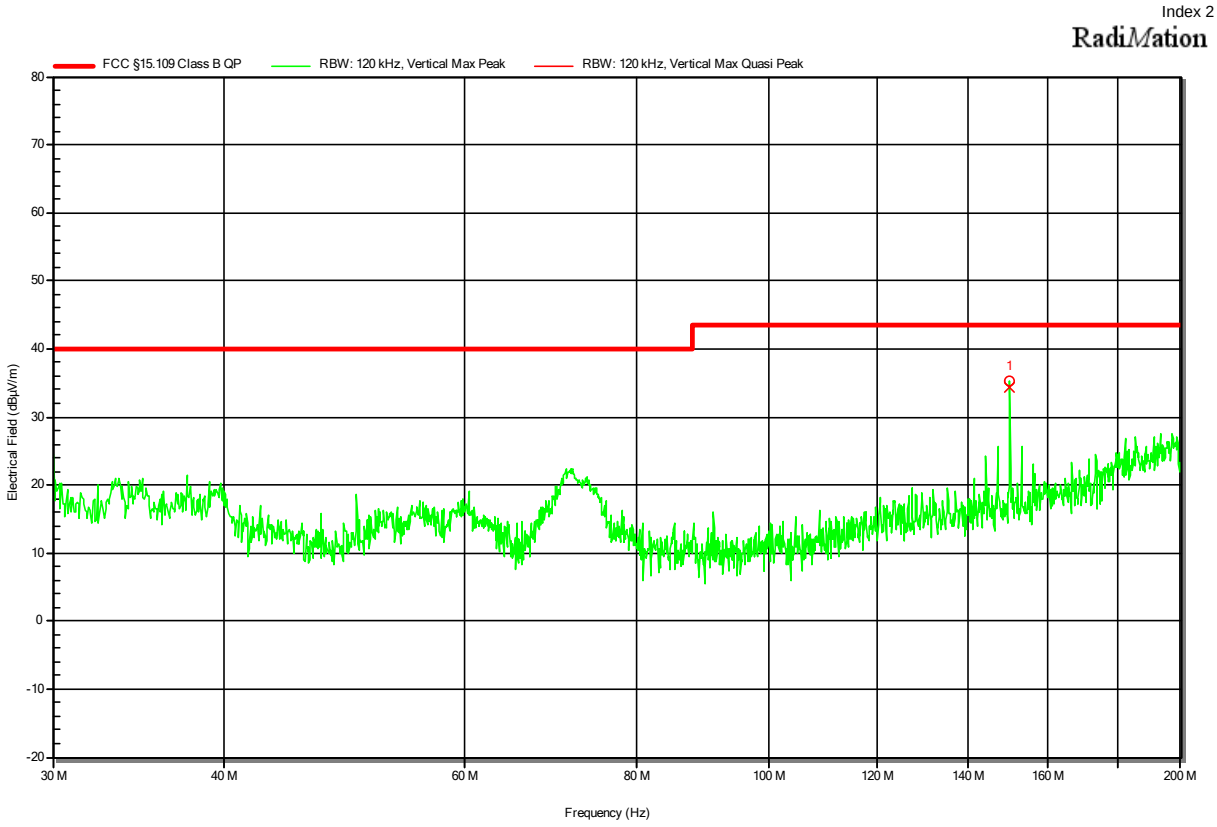
2.1.6 Results

| **Test Results** | | | |
|---|---|---|---|
| Operational mode | EUT Configuration | Verdict | Remark |
| 1 | 1 | PASS | - |
| 2 | 1 | PASS | - |
| 3 | 2 | PASS | - |
| 4 | 2 | PASS | - |

2.1.8 Records

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

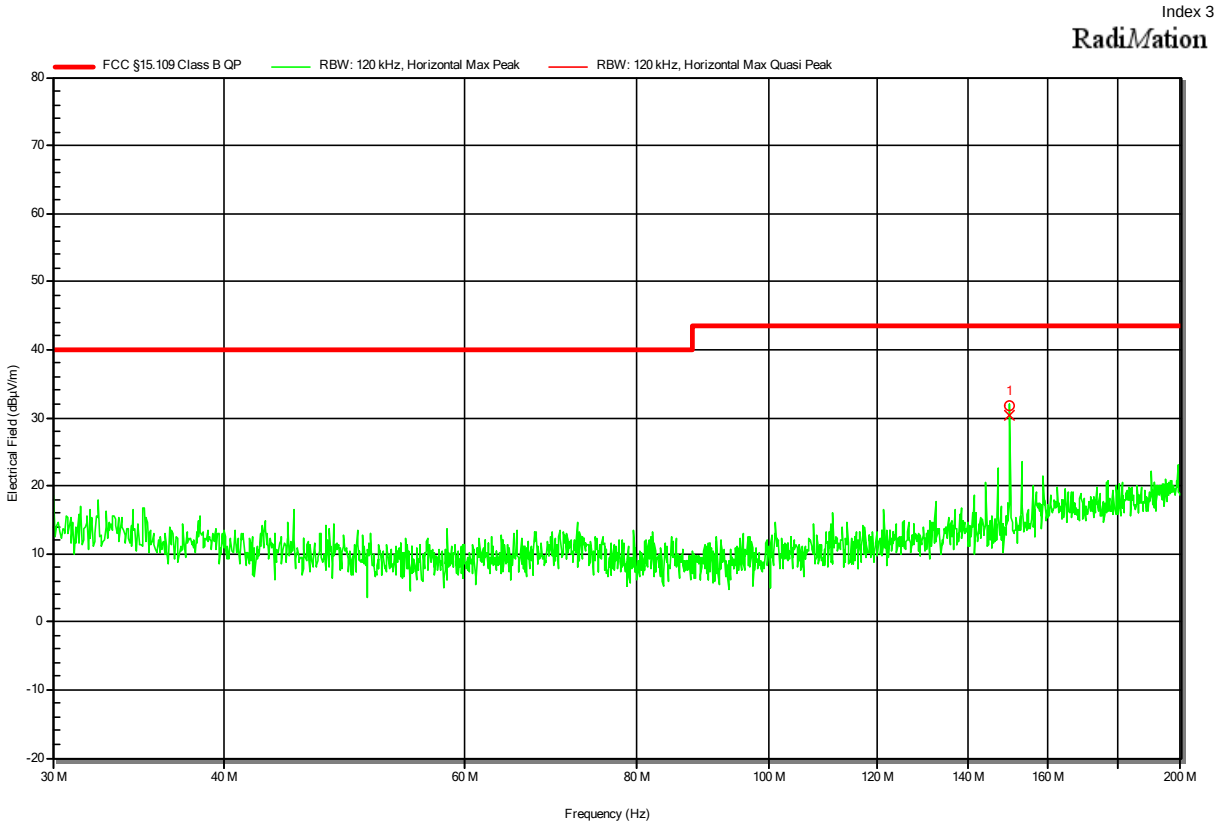
| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-22 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HK 116, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 1<br>1 |
| Note 1: | |




| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 149.997 MHz | 34.31 dBµV/m | 43.52 dBµV/m | -9.22 dB | Pass | -100 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-22 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HK 116, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 1<br>1 |
| Note 1: | |




| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 149.997 MHz | 30.35 dBµV/m | 43.52 dBµV/m | -13.17 dB | Pass | 180 degrees | 3.27 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
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| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-22 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HL 223, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 1<br>1 |
| Note 1: | |

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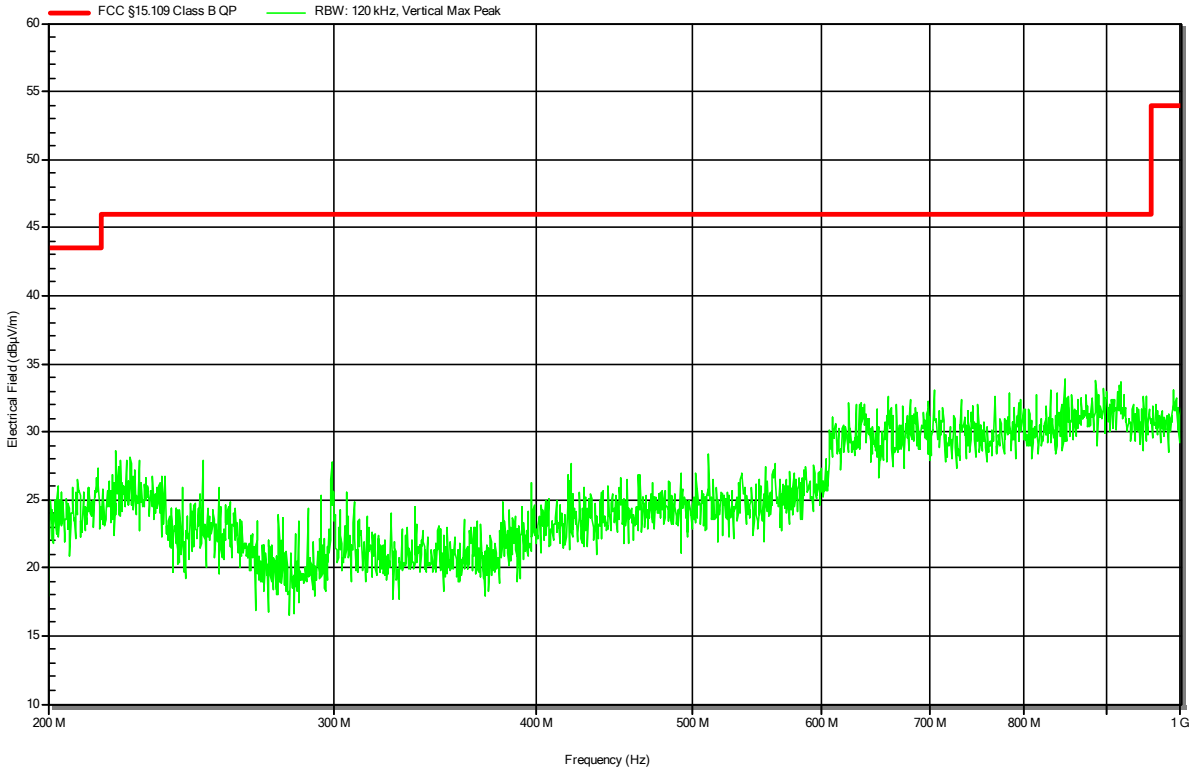
RadiMation



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

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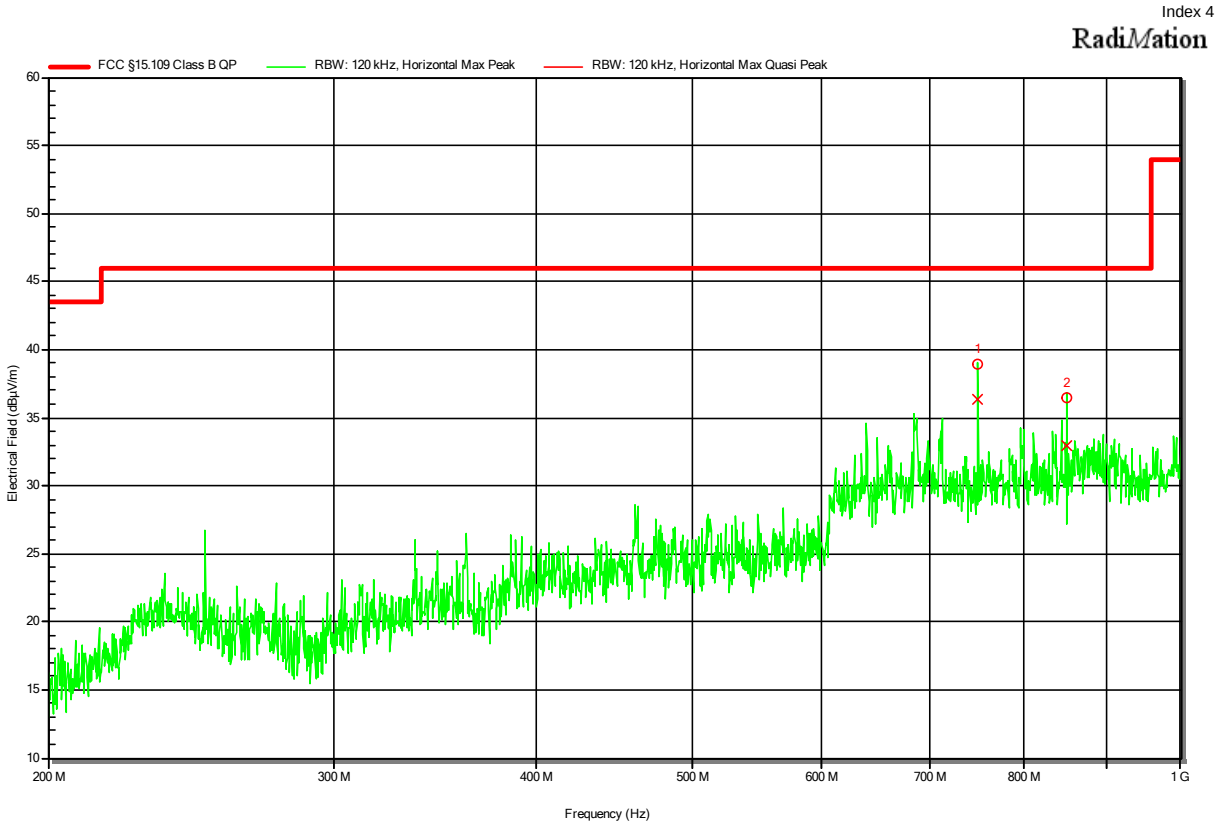
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-22 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HL 223, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 1<br>1 |
| Note 1: | |




| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 749.997 MHz | 36.35 dBµV/m | 46.02 dBµV/m | -9.67 dB | Pass | -30 degrees | 1 m |
| 2 | 850.003 MHz | 32.96 dBµV/m | 46.02 dBµV/m | -13.06 dB | Pass | -30 degrees | 1 m |

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

| | |
|---|---|
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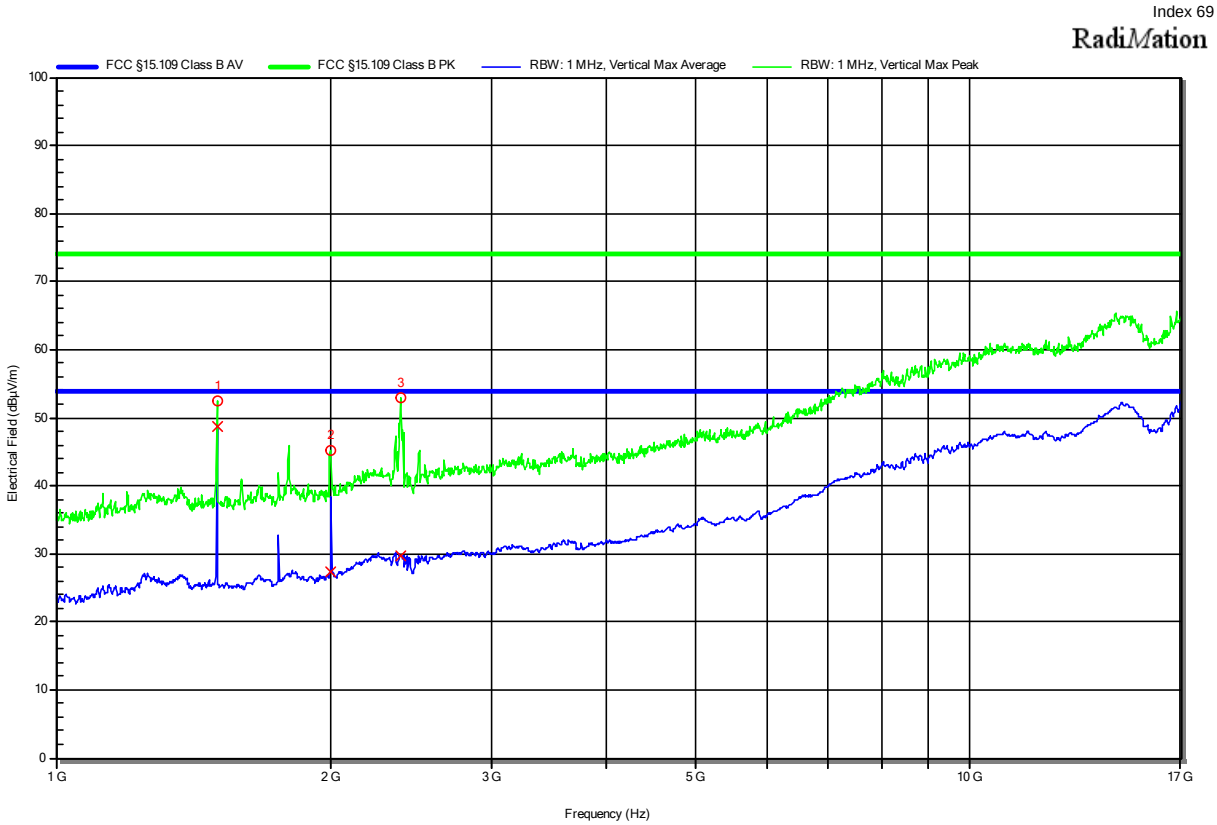
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement Distance: | 3m |
| Operational Mode &<br>EUT Configuration: | 1<br>1 |
| Note 1: | 2.4GHz Notchfilter |




| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 52.43 dBµV/m | 73.98 dBµV/m | -21.55 dB | Pass | 150 degrees | 1.3 m |
| 2 | 1.996 GHz | 45.22 dBµV/m | 73.98 dBµV/m | -28.76 dB | Pass | 150 degrees | 1.3 m |
| 3 | 2.382 GHz | Bluetooth / WLAN carrier | | | | | |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 48.61 dBµV/m | 53.98 dBµV/m | -5.37 dB | Pass | 150 degrees | 1.3 m |
| 2 | 1.996 GHz | 27.42 dBµV/m | 53.98 dBµV/m | -26.56 dB | Pass | 150 degrees | 1.3 m |
| 3 | 2.382 GHz | Bluetooth / WLAN carrier | | | | | |

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

| | |
|---|---|
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| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode &<br>EUT Configuration: | 1<br>1 |
| Note 1: | 2.4GHz Notchfilter |

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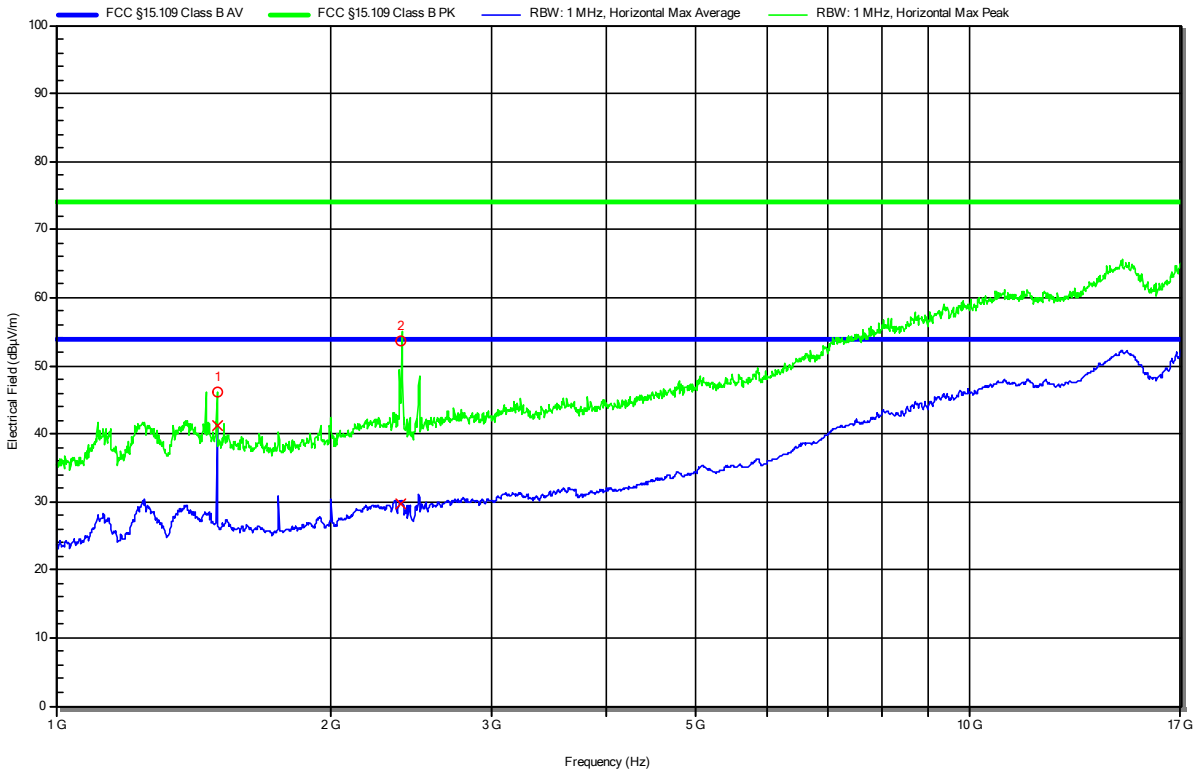
RadiMation




| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 46.11 dBµV/m | 73.98 dBµV/m | -27.87 dB | Pass | 0 degrees | 1.1 m |
| 2 | 2.387 GHz | Bluetooth / WLAN carrier | | | | | |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 41.29 dBµV/m | 53.98 dBµV/m | -12.69 dB | Pass | 0 degrees | 1.1 m |
| 2 | 2.387 GHz | Bluetooth / WLAN carrier | | | | | |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Amplifier Research AT4560, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 1<br>1 |
| Note 1: | |

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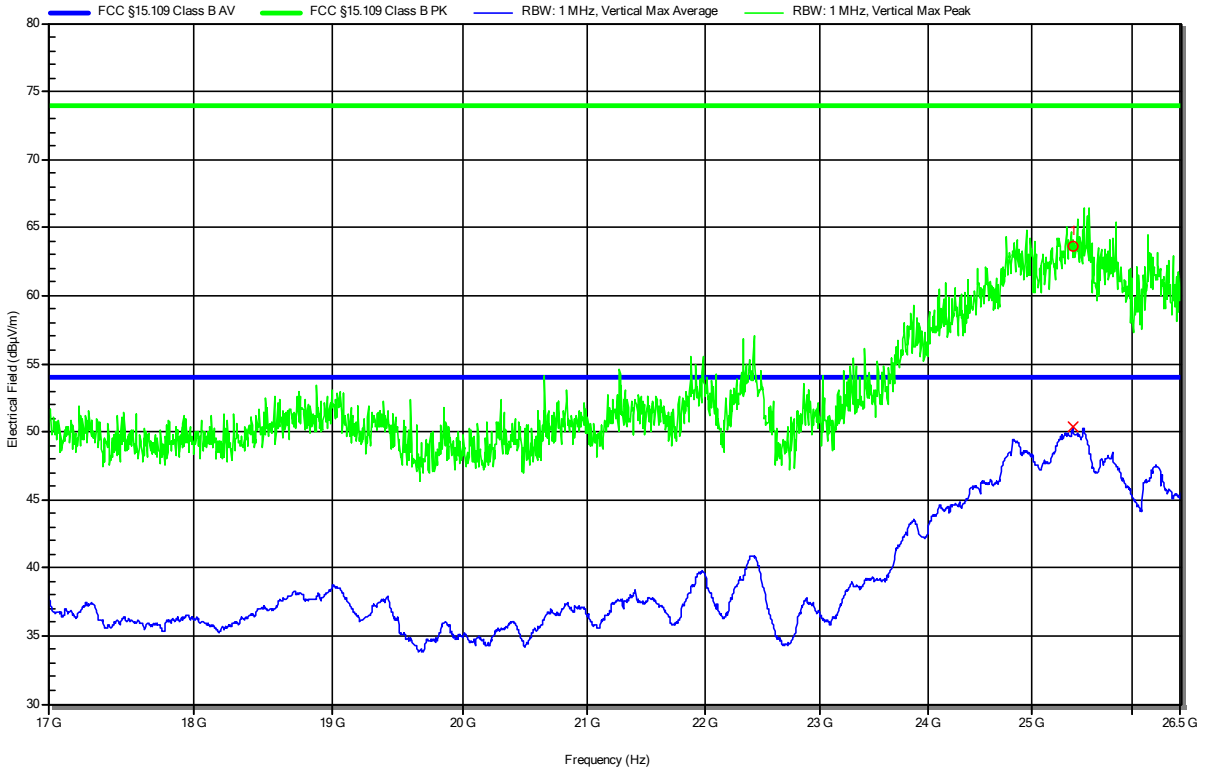
RadiMation




| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.4 GHz | 63.6 dBµV/m | 73.98 dBµV/m | -10.38 dB | Pass | 0 degrees | 1.1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.4 GHz | 50.34 dBµV/m | 53.98 dBµV/m | -3.64 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Amplifier Research AT4560, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 1<br>1 |
| Note 1: | |

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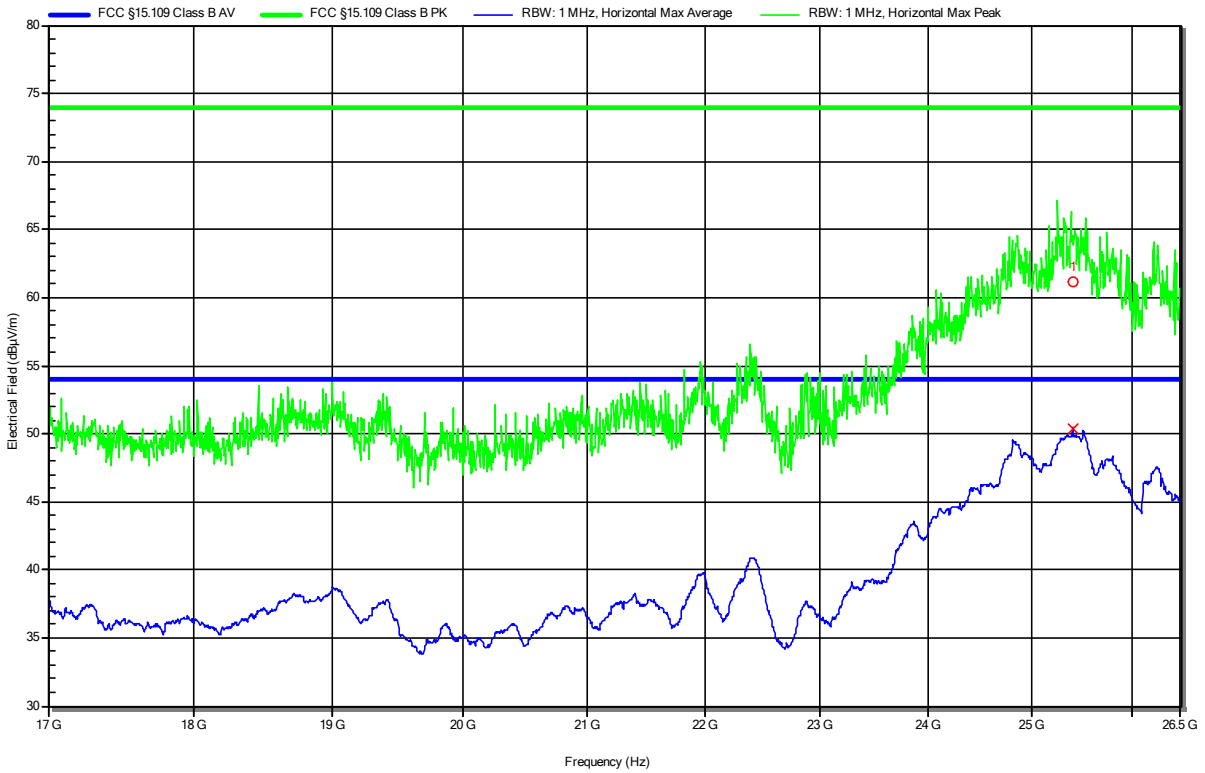
RadiMation

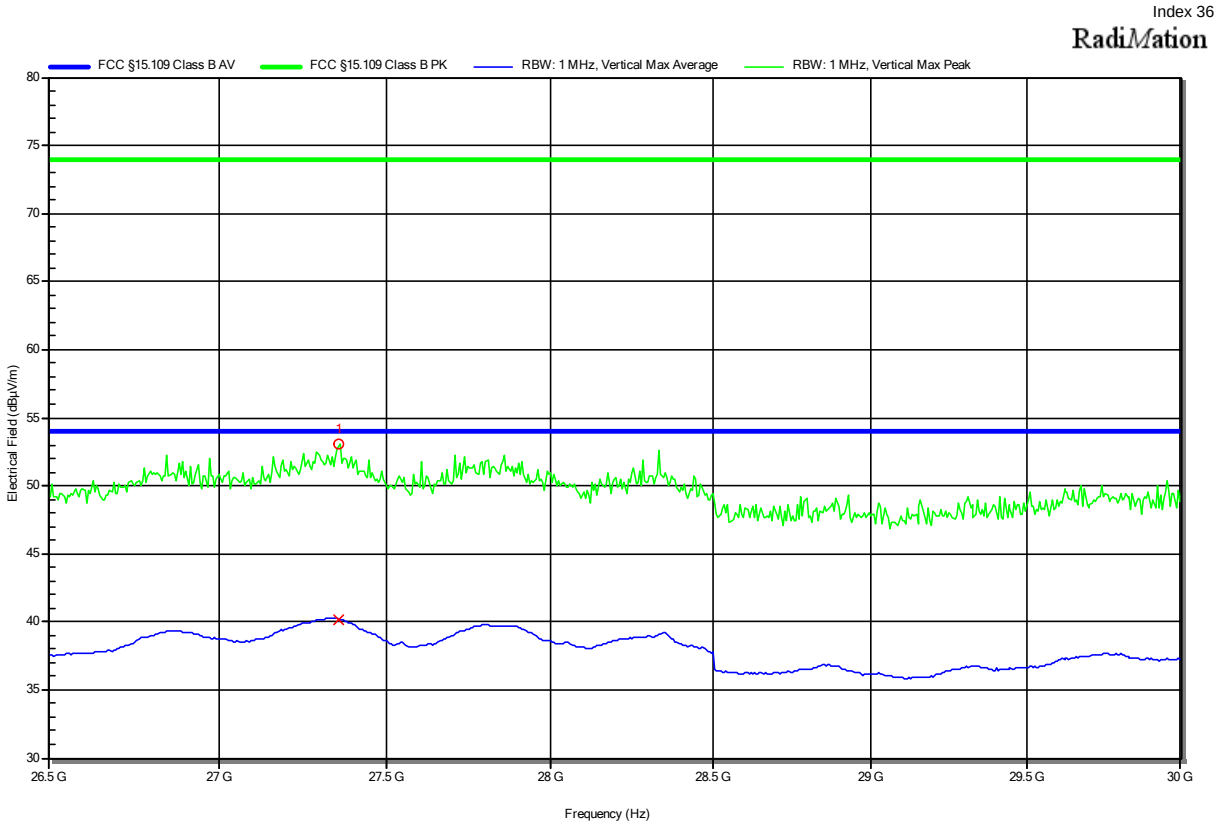



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.405 GHz | 61.21 dBµV/m | 73.98 dBµV/m | -12.77 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.405 GHz | 50.4 dBµV/m | 53.98 dBµV/m | -3.58 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | 22240-28Amp. CBL26402075, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 1<br>1 |
| Note 1: | |




| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.358 GHz | 53.02 dBµV/m | 73.98 dBµV/m | -20.96 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.358 GHz | 40.16 dBµV/m | 53.98 dBµV/m | -13.82 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | 22240-28Amp. CBL26402075, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 1<br>1 |
| Note 1: | |

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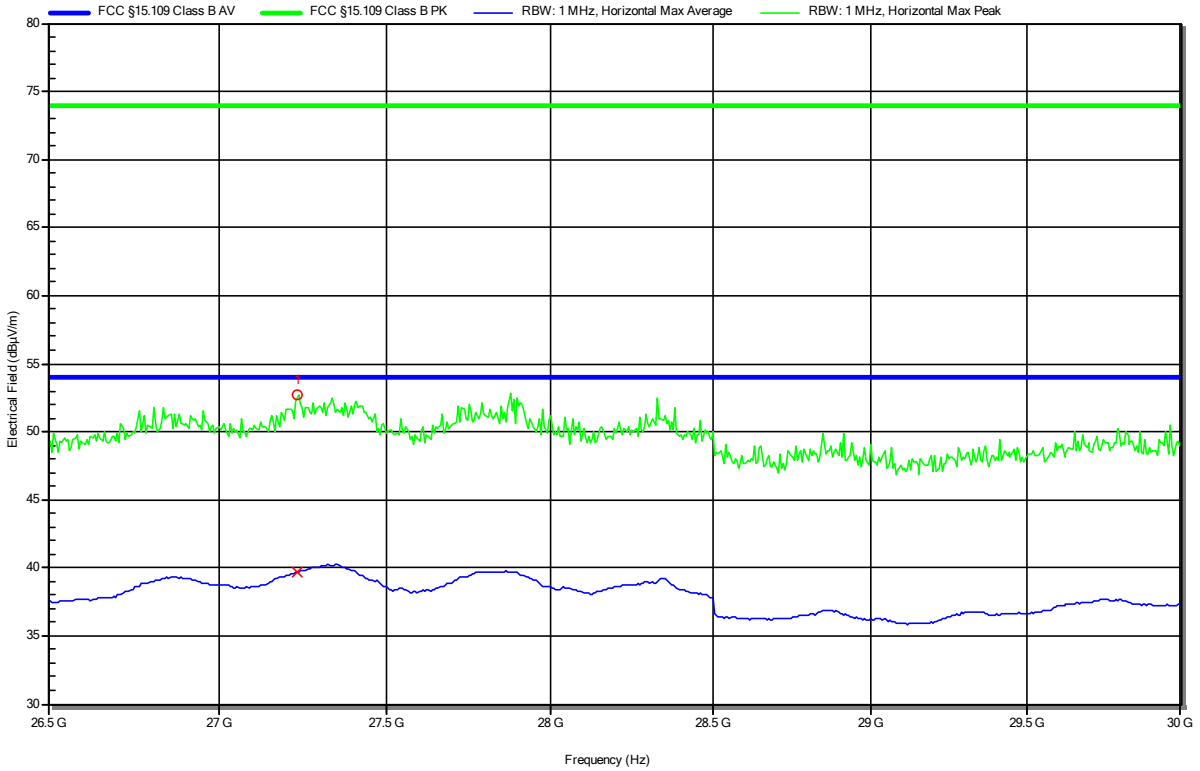
RadiMation




| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.235 GHz | 52.74 dBµV/m | 73.98 dBµV/m | -21.24 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.235 GHz | 39.71 dBµV/m | 53.98 dBµV/m | -14.26 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HK 116, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 3<br>2 |
| Note 1: | |

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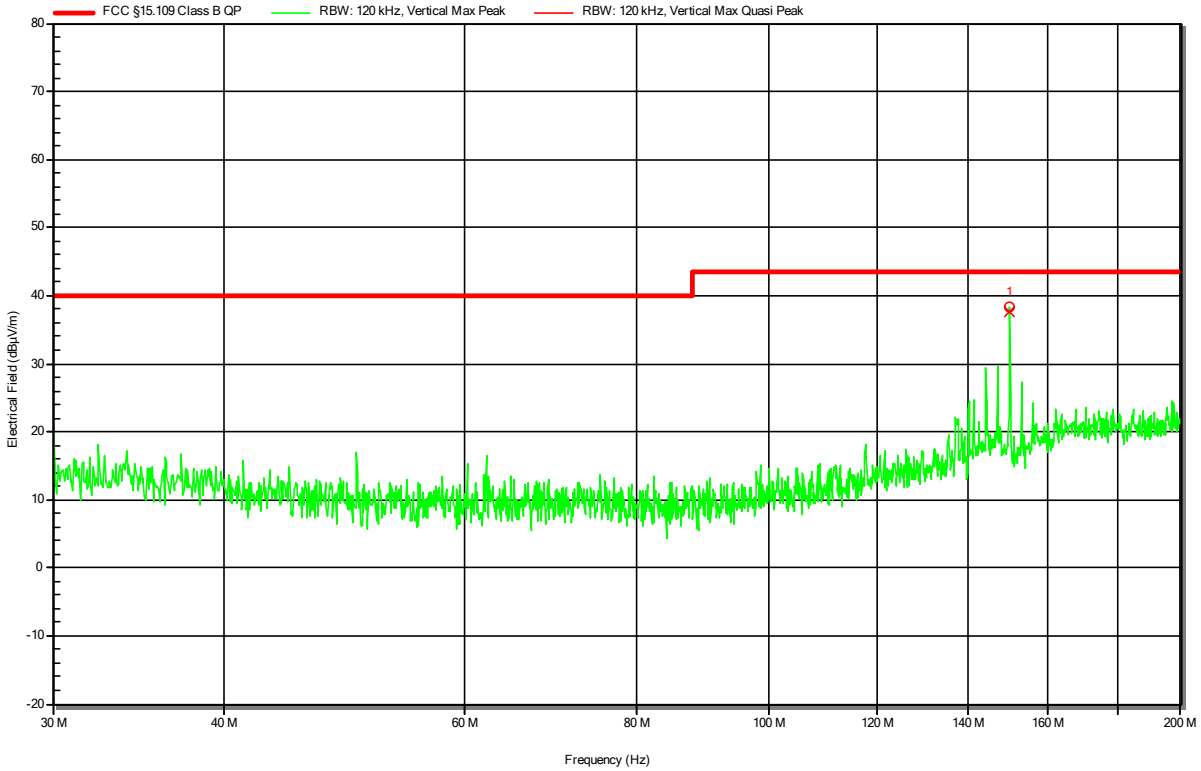
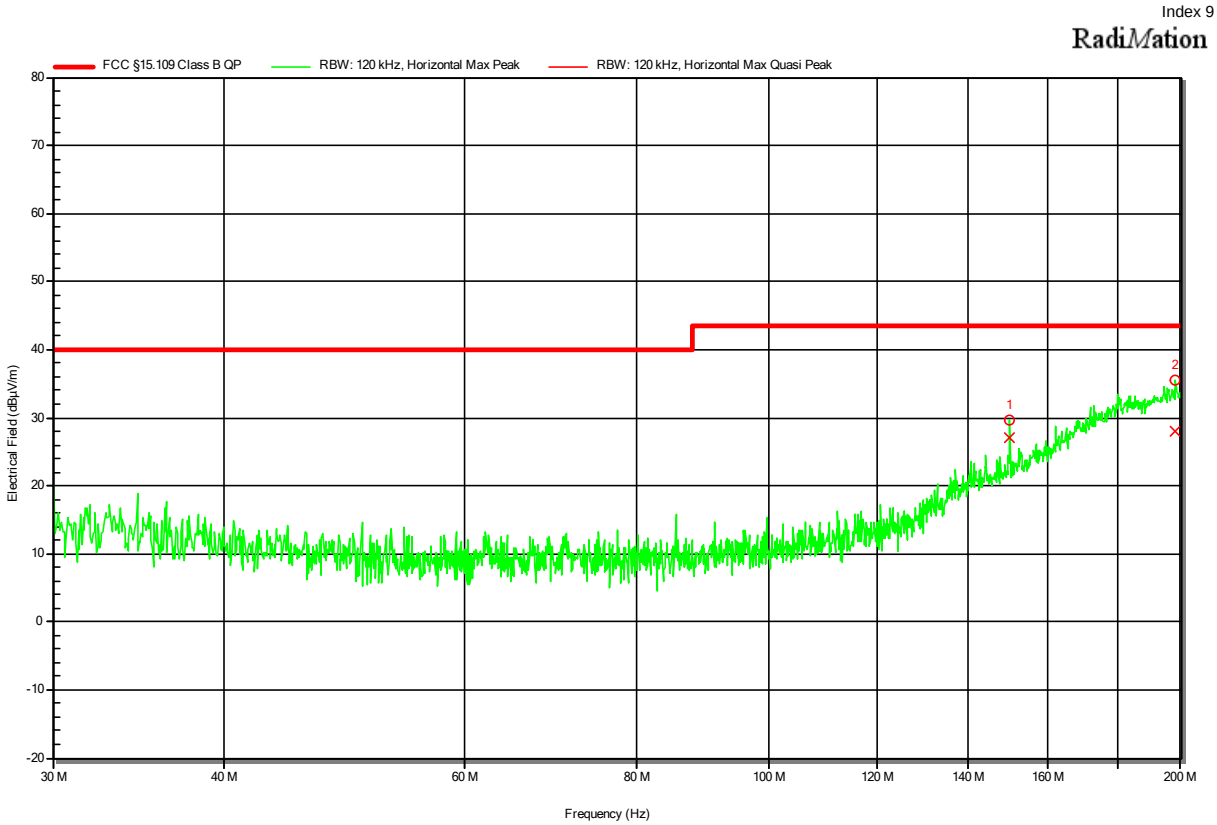
RadiMation




| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 149.997 MHz | 37.61 dBµV/m | 43.52 dBµV/m | -5.91 dB | Pass | -123 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HK 116, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 3<br>2 |
| Note 1: | |




| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 150.003 MHz | 26.99 dBµV/m | 43.52 dBµV/m | -16.53 dB | Pass | 100 degrees | 1 m |
| 2 | 198.319 MHz | 28.08 dBµV/m | 43.52 dBµV/m | -15.45 dB | Pass | 100 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HL 223, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 3<br>2 |
| Note 1: | |

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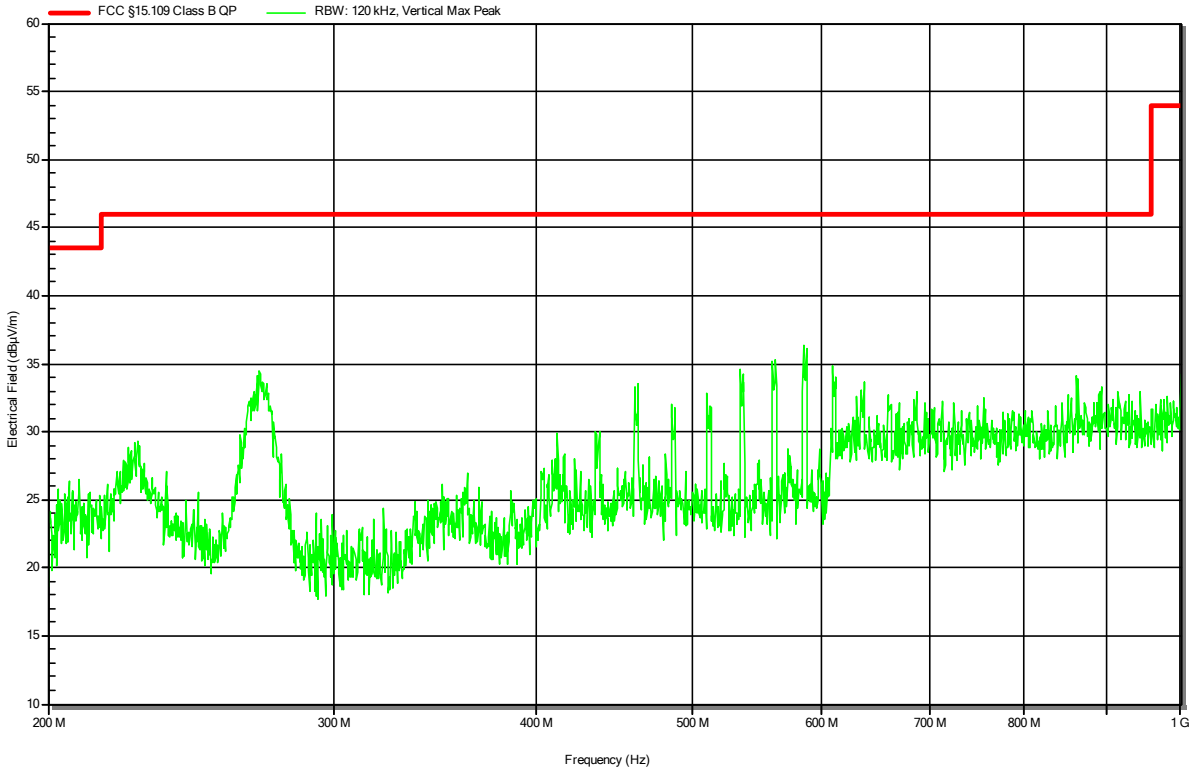
RadiMation



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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HL 223, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 3<br>2 |
| Note 1: | |

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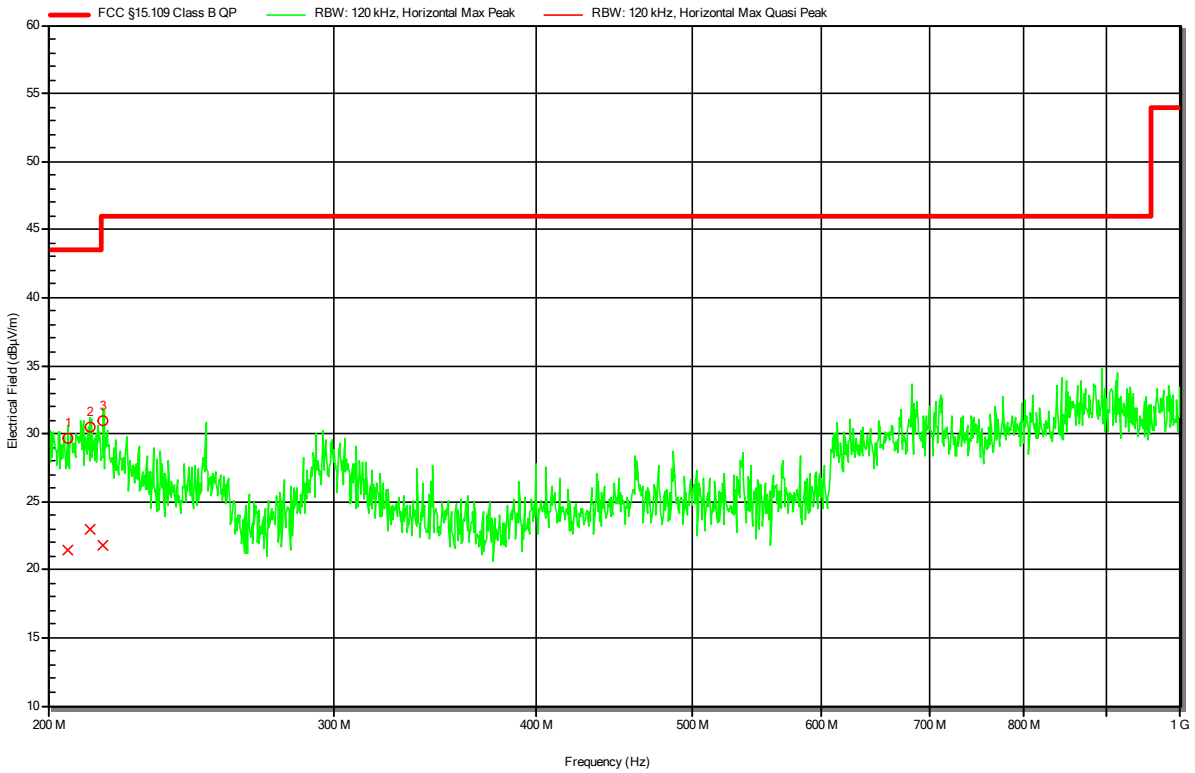


| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 205.866 MH | 21.45 dBµV/m | 43.52 dBµV/m | -22.07 dB | Pass | -25 degrees | 1 m |
| 2 | 212.525 MHz | 22.92 dBµV/ | 43.52 dBµV/m | -20.61 dB | Pass | -25 degrees | 1 m |
| 3 | 216.391 MHz | 21.79 dBµV/m | 43.52 dBµV/m | -24.23 dB | Pass | -25 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 3<br>2 |
| Note 1: | 2.4GHz Notchfilter |

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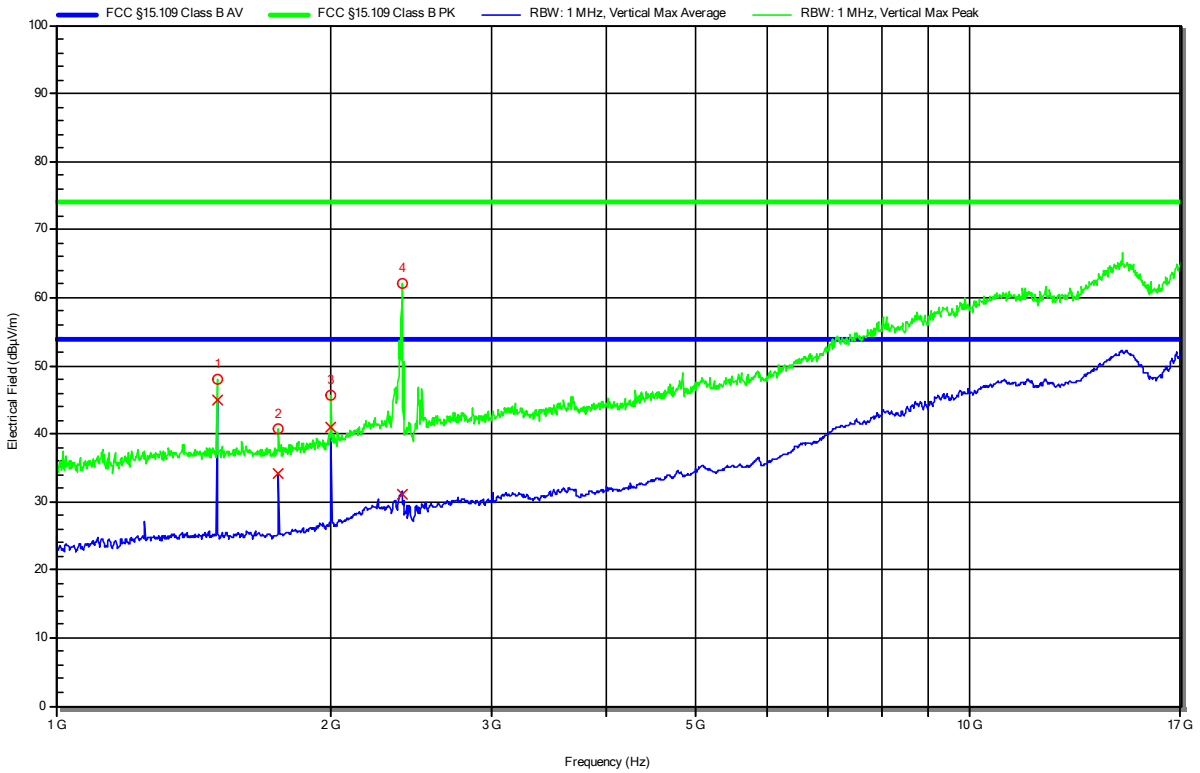
RadiMation




| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 48.12 dBµV/m | 73.98 dBµV/m | -25.86 dB | Pass | 135 degrees | 1.52 m |
| 2 | 1.75 GHz | 40.82 dBµV/m | 73.98 dBµV/m | -33.16 dB | Pass | 135 degrees | 1.52 m |
| 3 | 2 GHz | 45.71 dBµV/m | 73.98 dBµV/m | -28.27 dB | Pass | 135 degrees | 1.52 m |
| 4 | 2.39 GHz | Bluetooth / WLAN carrier | | | | | |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 45.07 dBµV/m | 53.98 dBµV/m | -8.91 dB | Pass | 135 degrees | 1.52 m |
| 2 | 1.75 GHz | 34.13 dBµV/m | 53.98 dBµV/m | -19.85 dB | Pass | 135 degrees | 1.52 m |
| 3 | 2 GHz | 41.03 dBµV/m | 53.98 dBµV/m | -12.95 dB | Pass | 135 degrees | 1.52 m |
| 4 | 2.39 GHz | Bluetooth / WLAN carrier | | | | | |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 3<br>2 |
| Note 1: | 2.4GHz Notchfilter |

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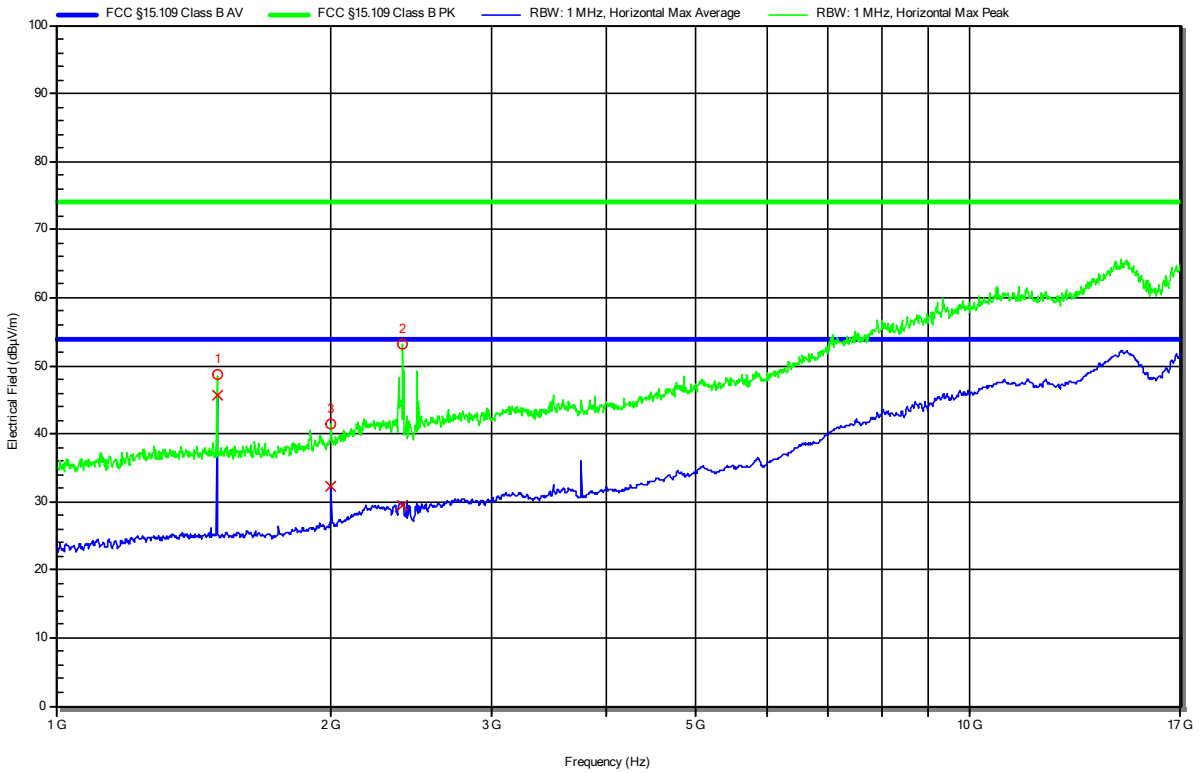
RadiMation

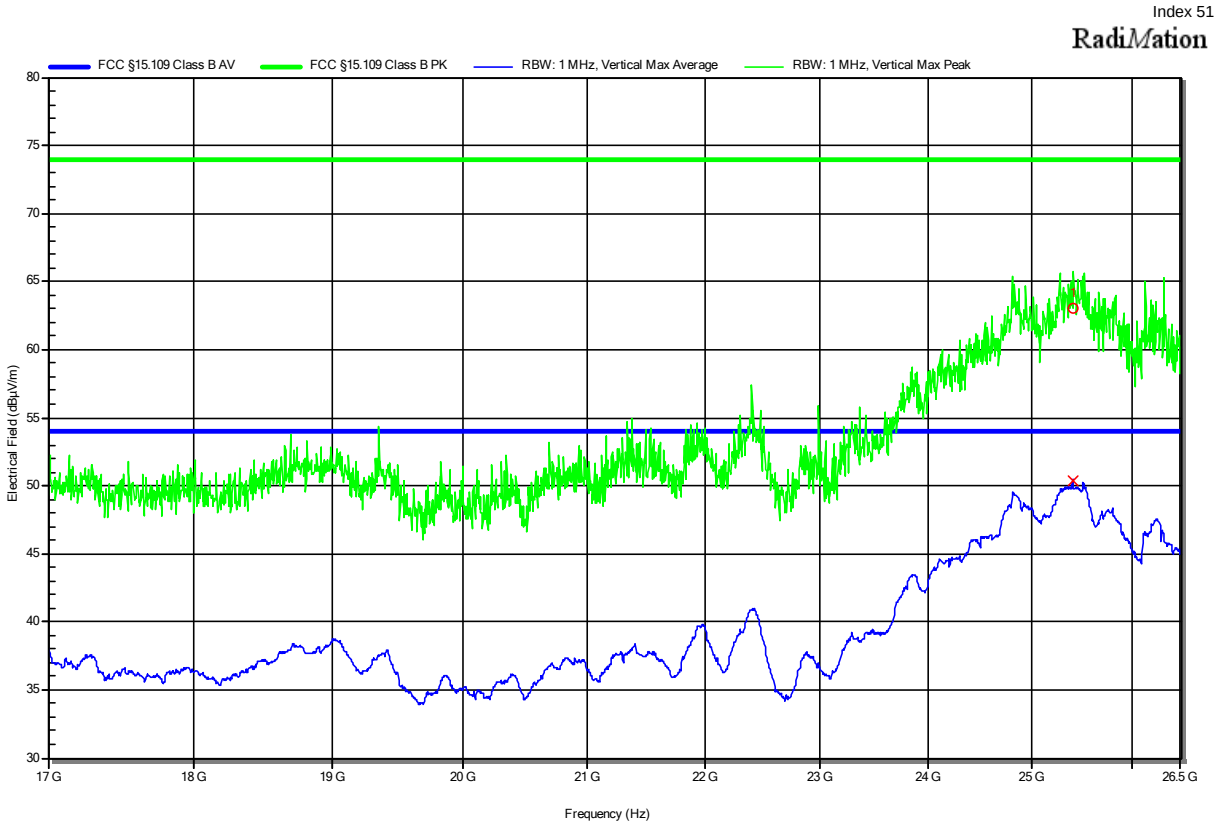



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 48.61 dBµV/m | 73.98 dBµV/m | -25.37 dB | Pass | 0 degrees | 1 m |
| 2 | 2.394 GHz | Bluetooth / WLAN carrier | | | | | |
| 3 | 2 GHz | 41.36 dBµV/m | 73.98 dBµV/m | -32.62 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 45.73 dBµV/m | 53.98 dBµV/m | -8.25 dB | Pass | 0 degrees | 1 m |
| 2 | 2.394 GHz | Bluetooth / WLAN carrier | | | | | |
| 3 | 2 GHz | 32.33 dBµV/m | 53.98 dBµV/m | -21.65 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Amplifier Research AT4560, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 3<br>2 |
| Note 1: | |

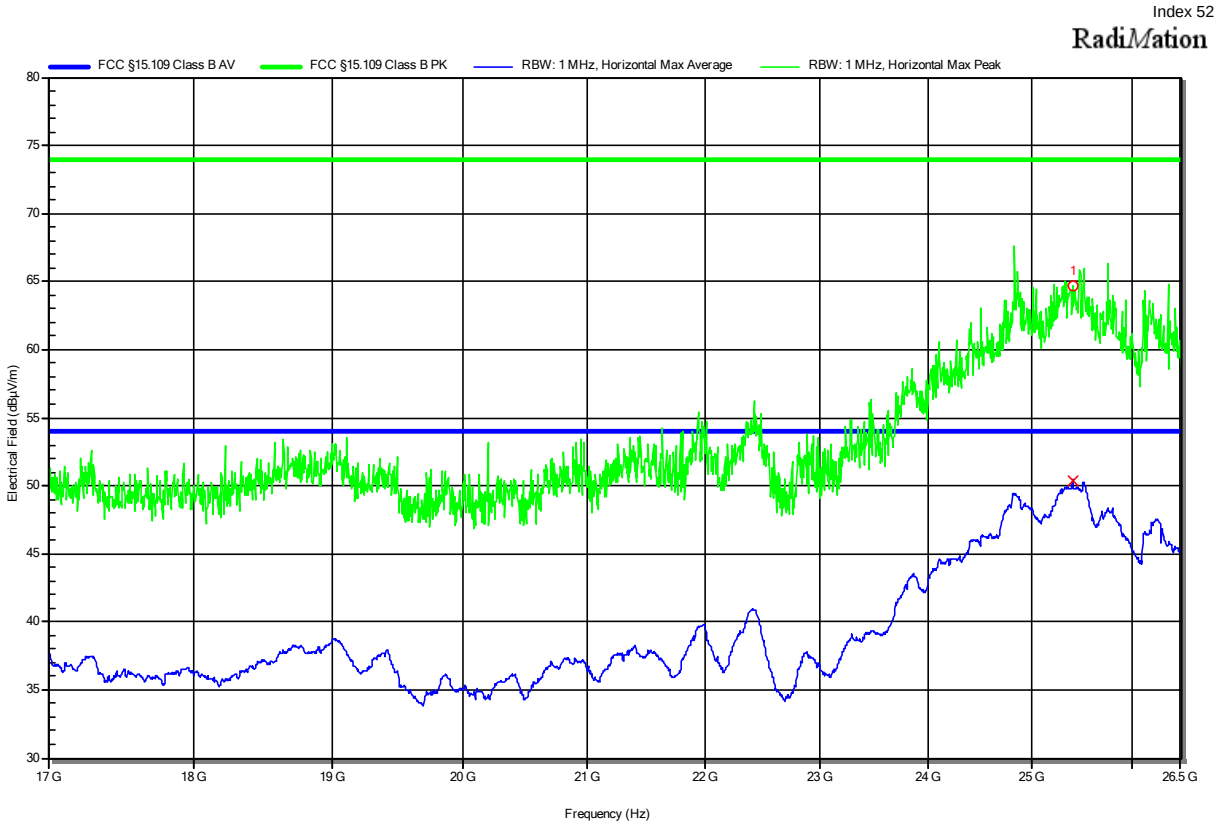



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.402 GHz | 63.03 dBµV/m | 73.98 dBµV/m | -10.95 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.402 GHz | 50.41 dBµV/m | 53.98 dBµV/m | -3.57 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Amplifier Research AT4560, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 3<br>2 |
| Note 1: | |

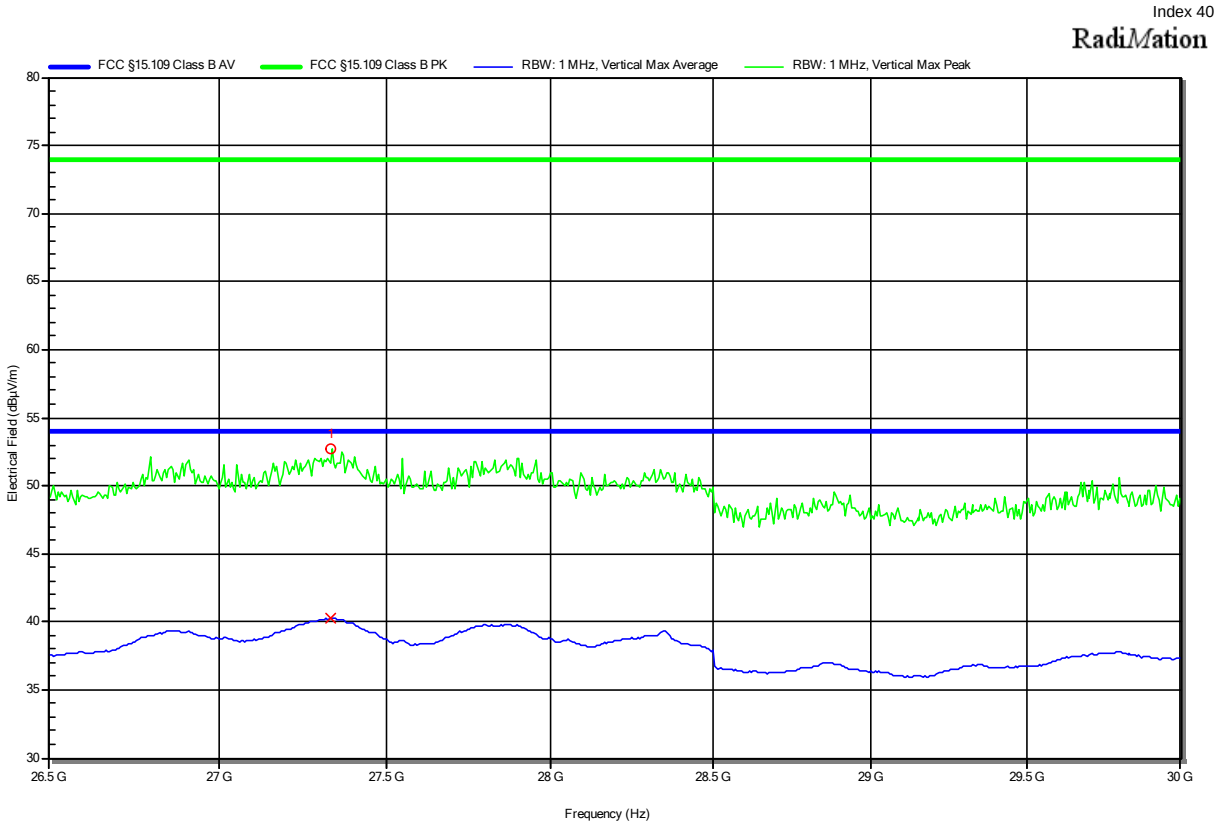



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.402 GHz | 64.66 dBµV/m | 73.98 dBµV/m | -9.32 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.4 GHz | 50.34 dBµV/m | 53.98 dBµV/m | -3.64 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | 22240-25 Amp. CBL26402075, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 3<br>2 |
| Note 1: | |




| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.336 GHz | 52.77 dBµV/m | 73.98 dBµV/m | -21.21 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.336 GHz | 40.28 dBµV/m | 53.98 dBµV/m | -13.7 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | 22240-25 Amp. CBL26402075, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 3<br>2 |
| Note 1: | |

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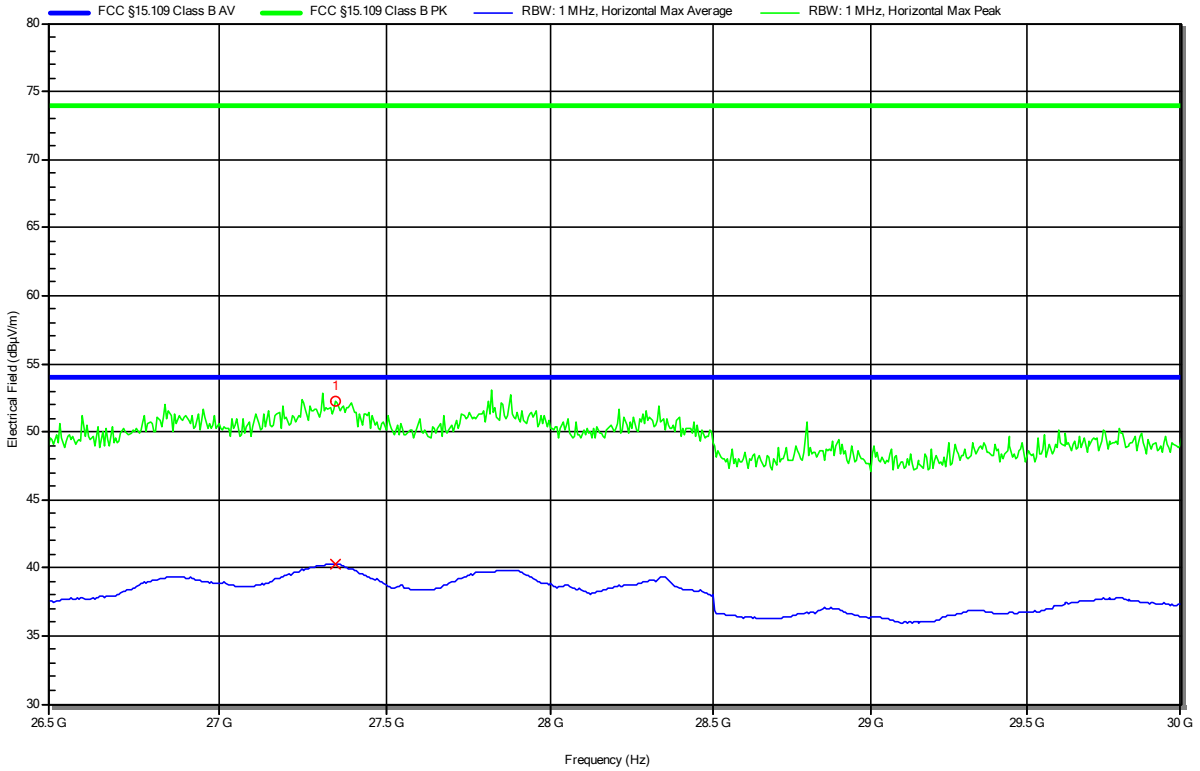


| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.347 GHz | 52.25 dBµV/m | 73.98 dBµV/m | -21.21 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.347 GHz | 40.27 dBµV/m | 53.98 dBµV/m | -13.71 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HK 116, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 2<br>1 |
| Note 1: | |

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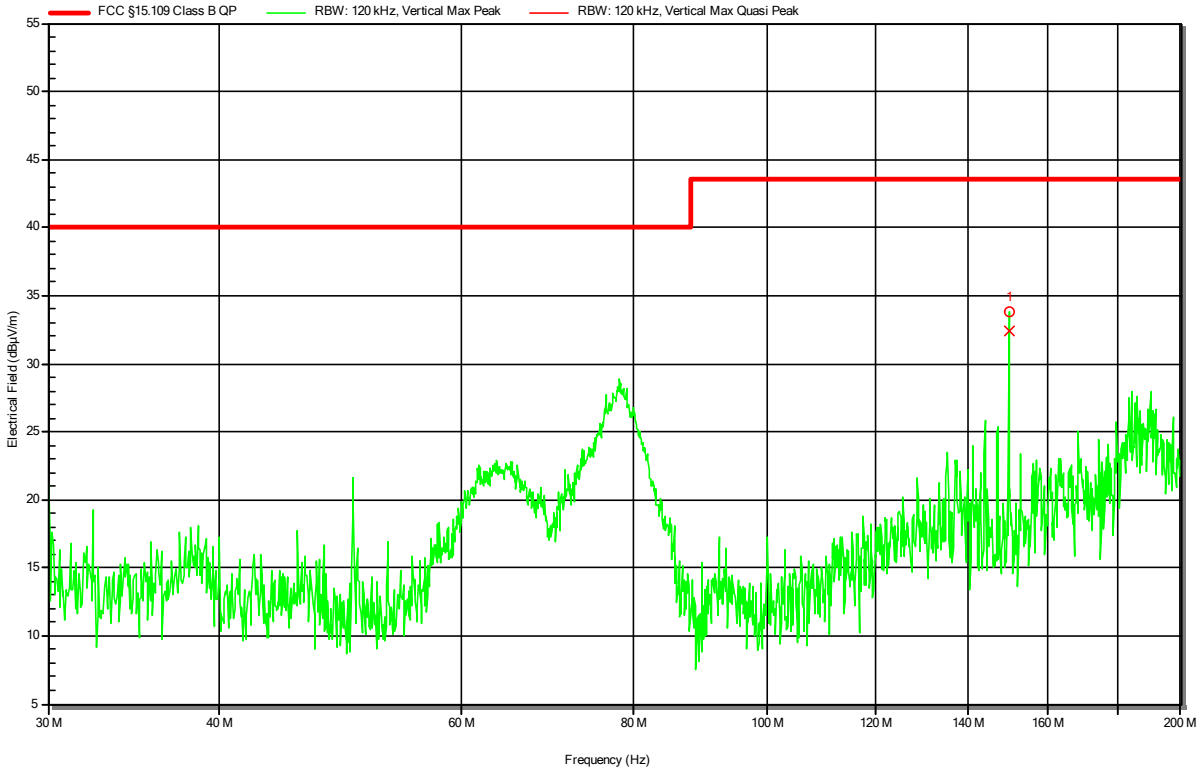
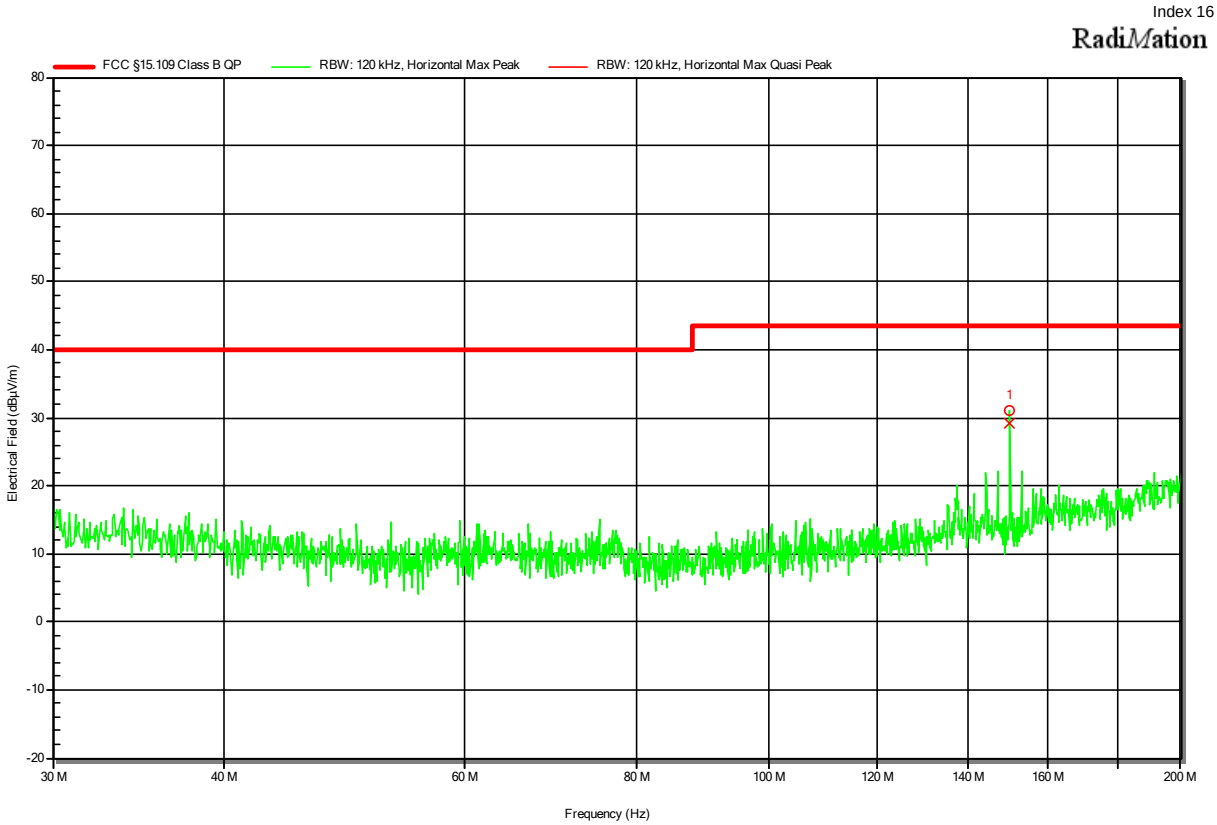
RadiMation




| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 149.997 MHz | 32.37 dBµV/m | 43.52 dBµV/m | -11.15 dB | Pass | -110 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HK 116, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 2<br>1 |
| Note 1: | |




| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 150.003 MHz | 29.09 dBµV/m | 43.52 dBµV/m | -14.44 dB | Pass | 180 degrees | 3.18 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HL 223, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 2<br>1 |
| Note 1: | |

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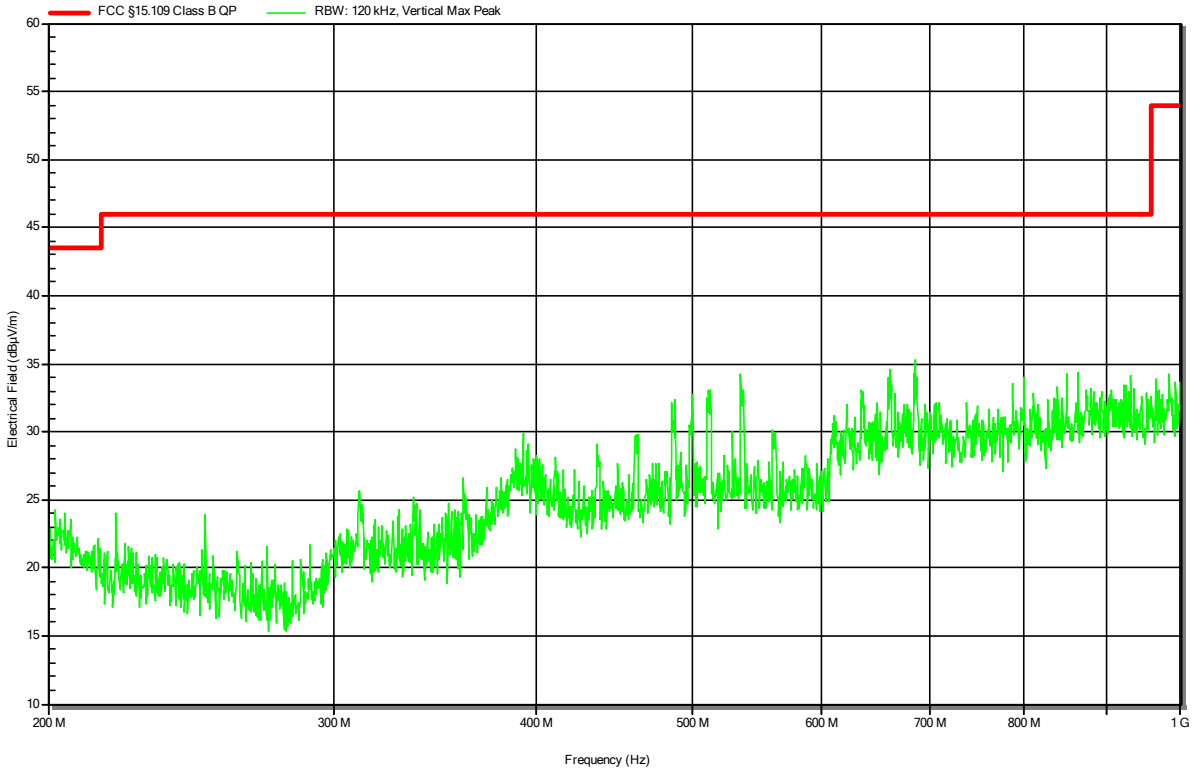
RadiMation



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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HL 223, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 2<br>1 |
| Note 1: | |

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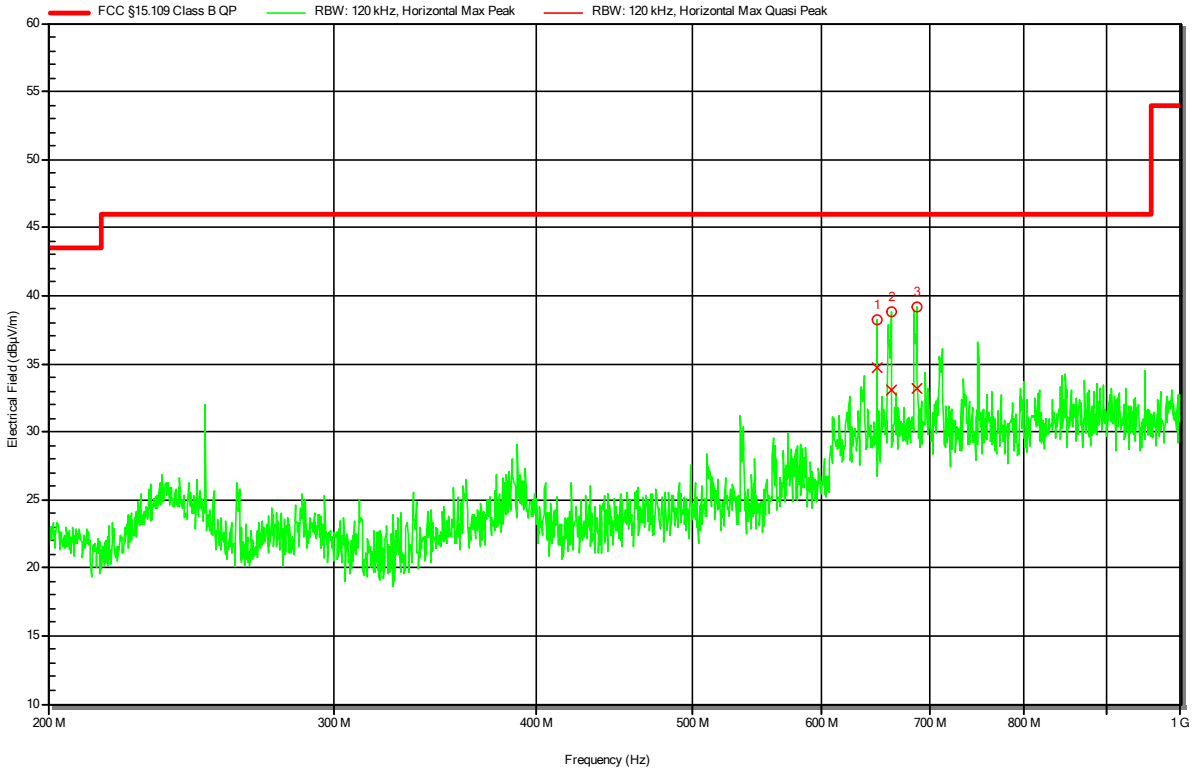
RadiMation




| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 650.003 MHz | 34.74 dBµV/m | 46.02 dBµV/m | -11.28 dB | Pass | -170 degrees | 1.2 m |
| 2 | 662.372 MHz | 33.02 dBµV/m | 46.02 dBµV/m | -13 dB | Pass | -170 degrees | 1.2 m |
| 3 | 687.409 MHz | 33.15 dBµV/m | 46.02 dBµV/m | -12.87 dB | Pass | -170 degrees | 1.2 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement Distance: | 3m |
| Operational Mode &<br>EUT Configuration: | 2<br>1 |
| Note 1: | 2.4GHz Notchfilter |

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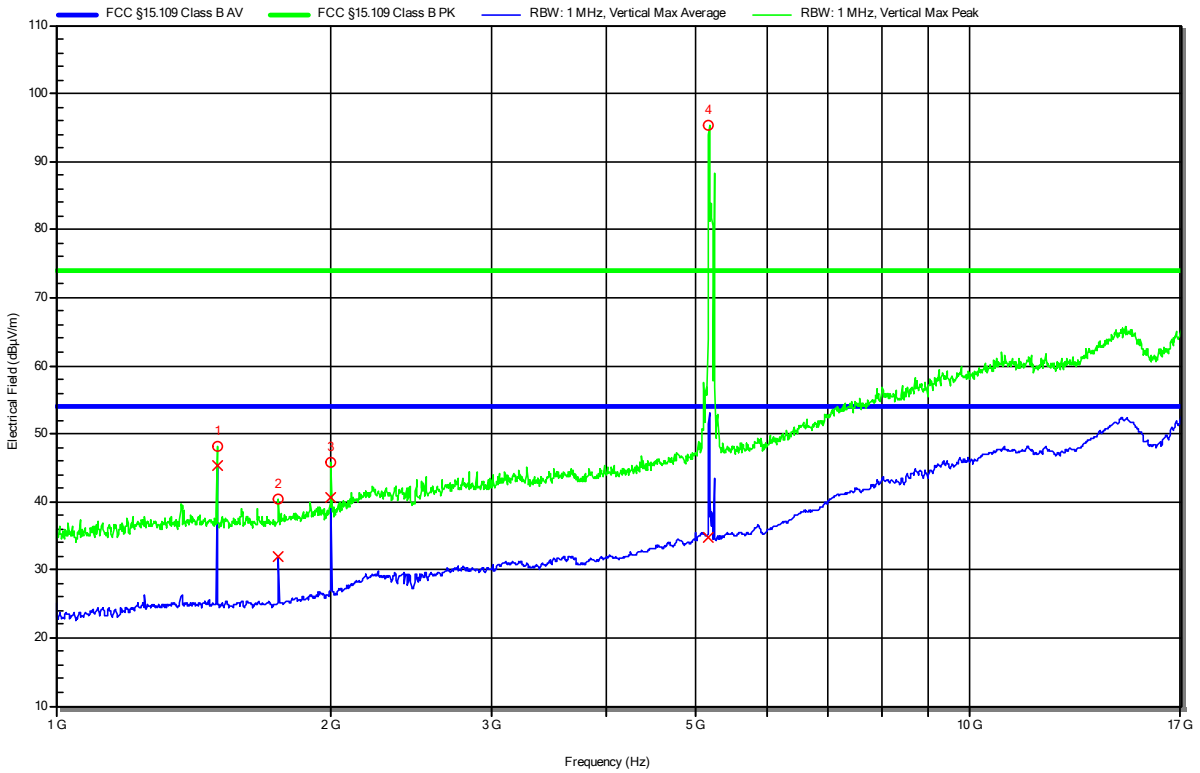
RadiMation

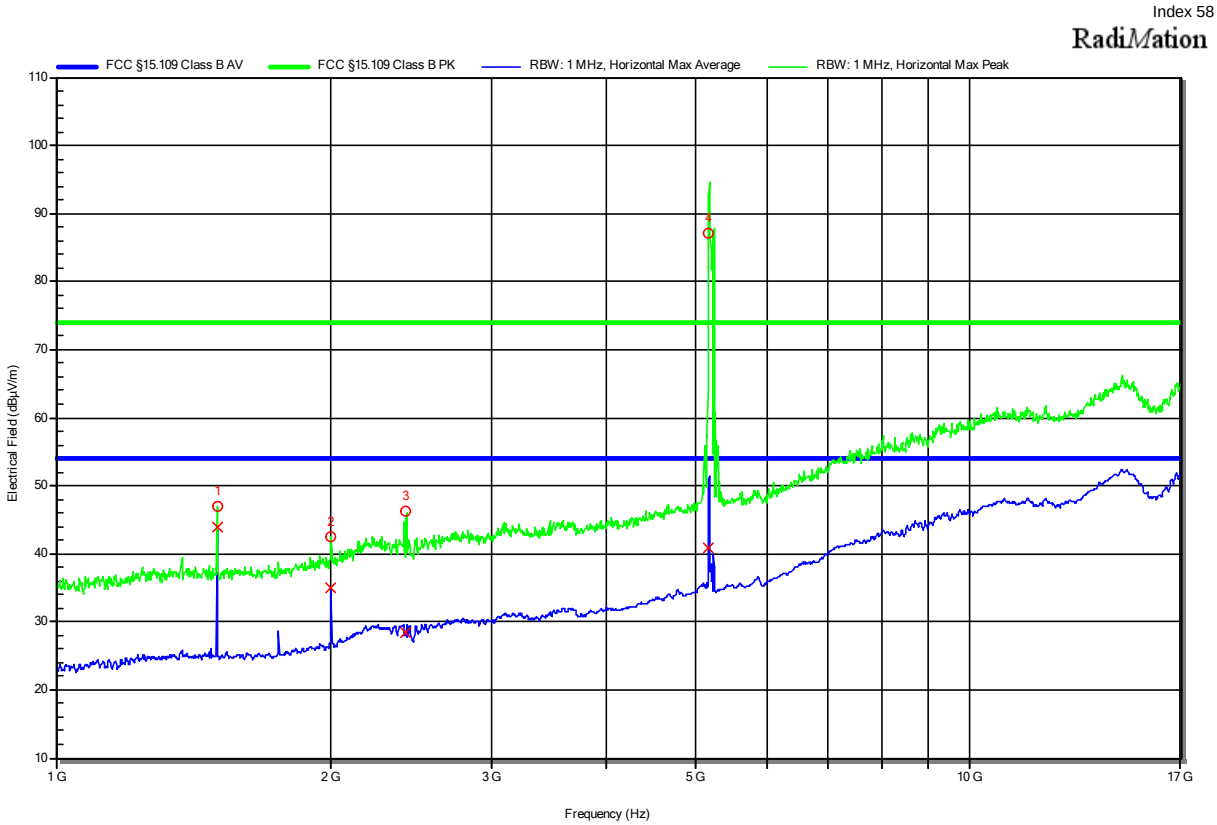



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 48.07 dBµV/m | 73.98 dBµV/m | -25.91 dB | Pass | 135 degrees | 1.38 m |
| 2 | 1.75 GHz | 40.31 dBµV/m | 73.98 dBµV/m | -33.67 dB | Pass | 135 degrees | 1.38 m |
| 3 | 2 GHz | 45.81 dBµV/m | 73.98 dBµV/m | -28.17 dB | Pass | 135 degrees | 1.38 m |
| 4 | 5.182 GHz | 5GHz WLAN carrier | | | | | |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 45.38 dBµV/m | 53.98 dBµV/m | -8.6 dB | Pass | 135 degrees | 1.38 m |
| 2 | 1.75 GHz | 31.9 dBµV/m | 53.98 dBµV/m | -22.08 dB | Pass | 135 degrees | 1.38 m |
| 3 | 2 GHz | 40.74 dBµV/m | 53.98 dBµV/m | -13.24 dB | Pass | 135 degrees | 1.38 m |
| 4 | 5.182 GHz | 5GHz WLAN carrier | | | | | |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode &<br>EUT Configuration: | 2<br>1 |
| Note 1: | 2.4GHz Notchfilter |

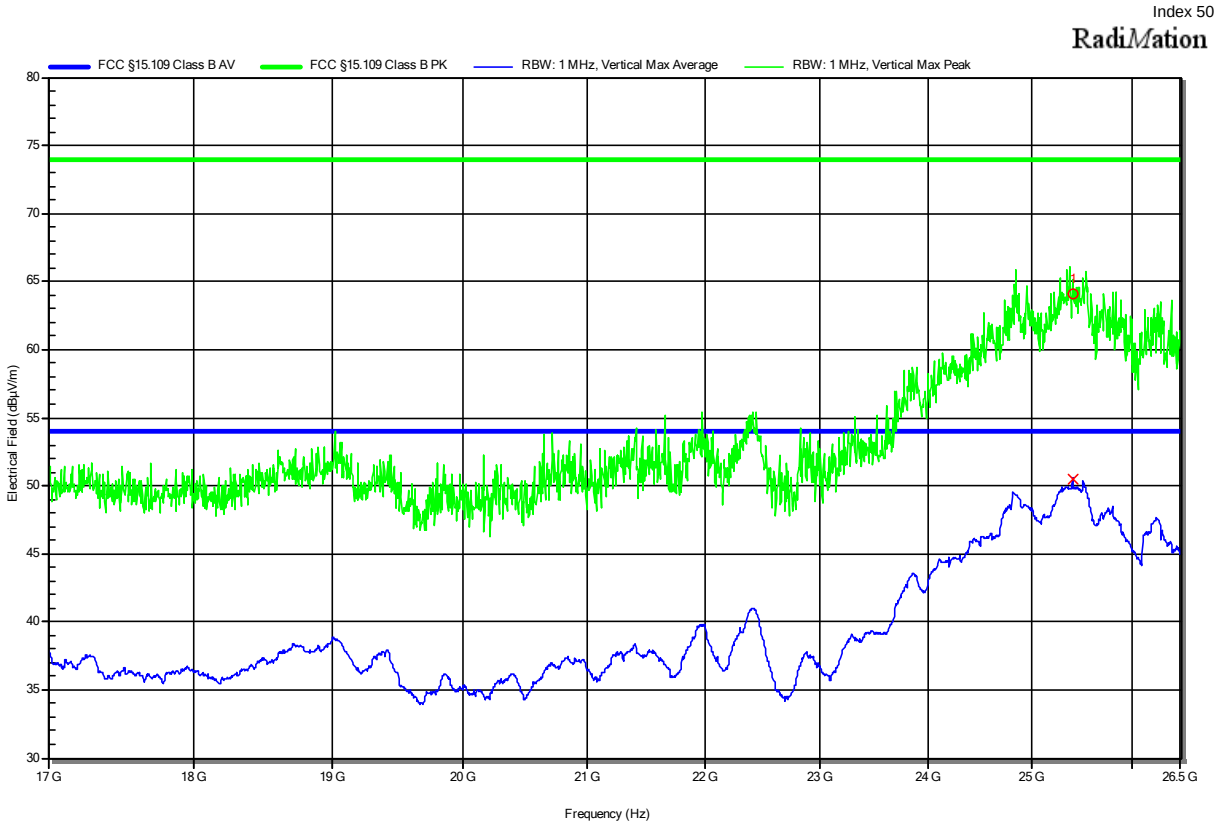



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 46.93 dBµV/m | 73.98 dBµV/m | -27.05 dB | Pass | 0 degrees | 1 m |
| 2 | 2 GHz | 42.4 dBµV/m | 73.98 dBµV/m | -31.58 dB | Pass | 0 degrees | 1 m |
| 3 | 2.416 GHz | Bluetooth carrier | | | | | |
| 4 | 5.176 GHz | 5GHz WLAN carrier | | | | | |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 43.99 dBµV/m | 53.98 dBµV/m | -9.99 dB | Pass | 0 degrees | 1 m |
| 2 | 2 GHz | 34.96 dBµV/m | 53.98 dBµV/m | -19.02 dB | Pass | 0 degrees | 1 m |
| 3 | 2.416 GHz | Bluetooth carrier | | | | | |
| 4 | 5.176 GHz | 5GHz WLAN carrier | | | | | |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Amplifier Research AT4560, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 2<br>1 |
| Note 1: | |




| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.401 GHz | 64.13 dBµV/m | 73.98 dBµV/m | -9.85 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.401 GHz | 50.44 dBµV/m | 53.98 dBµV/m | -3.54 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | Amplifier Research AT4560, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 2<br>1 |
| Note 1: | |

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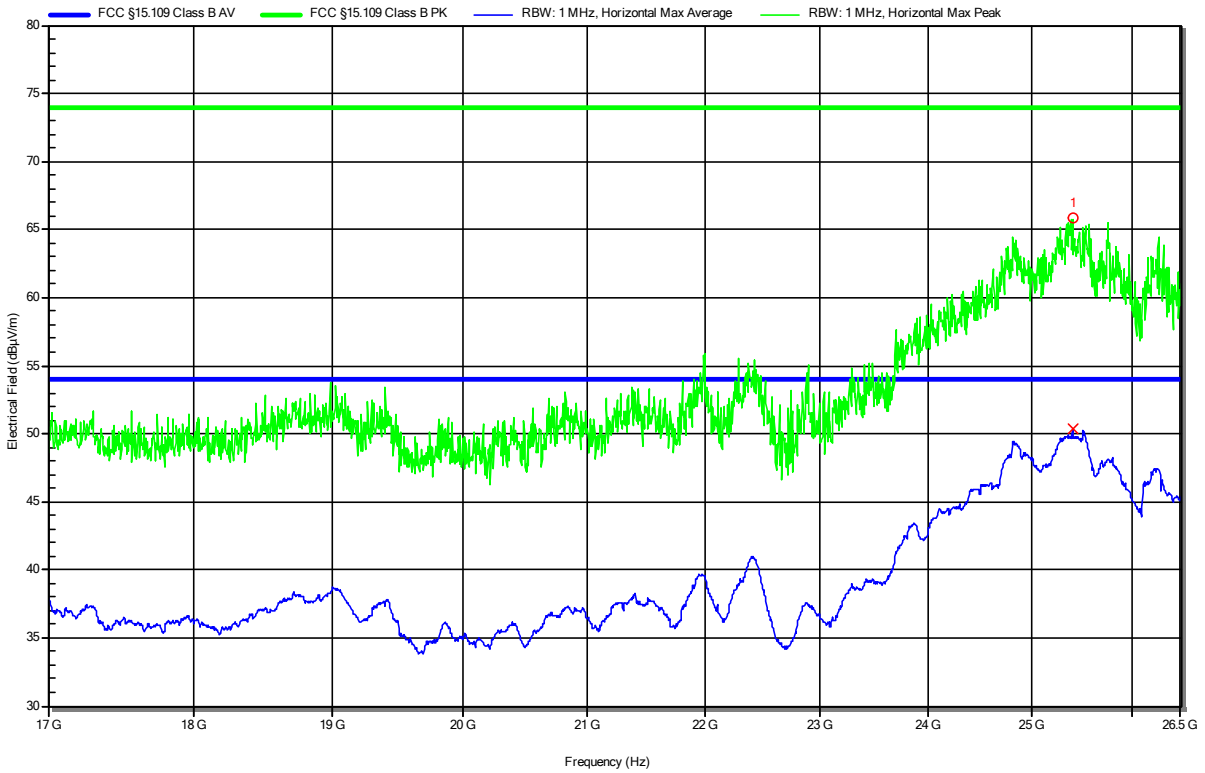
RadiMation

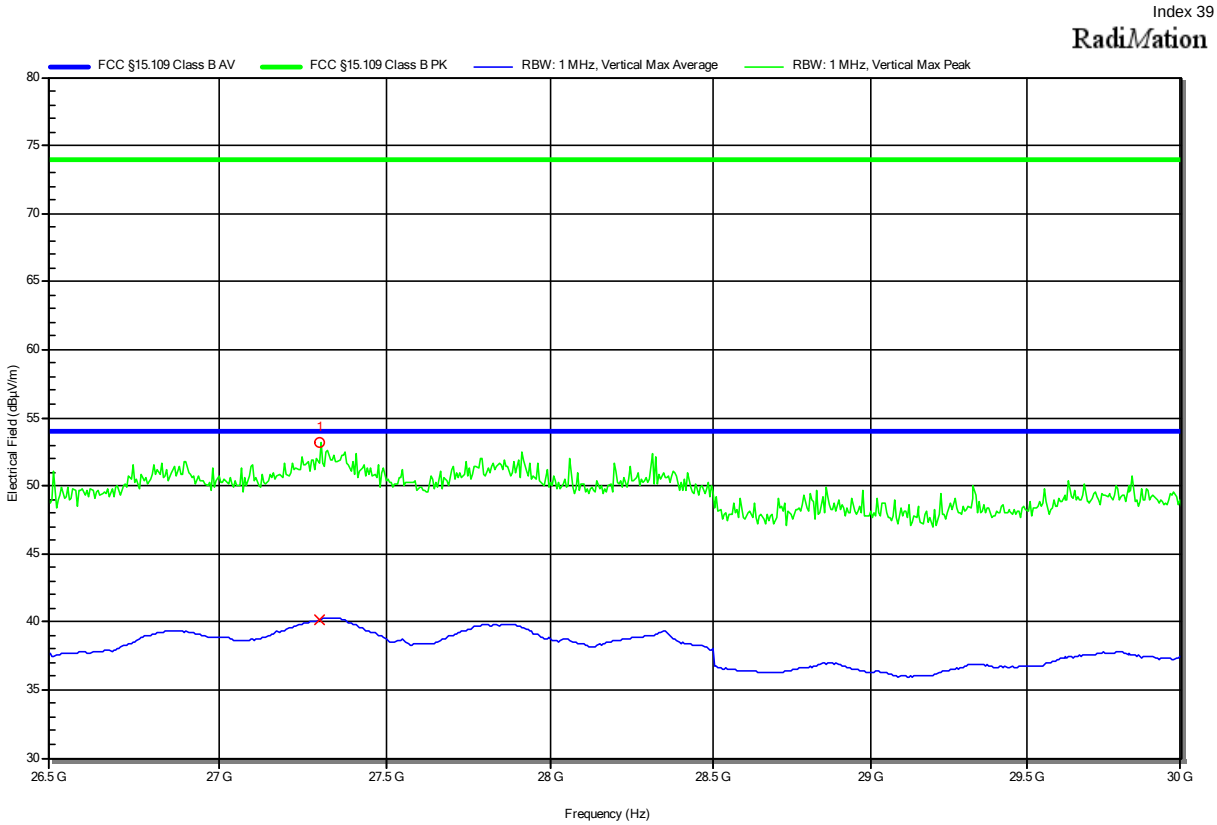



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.4 GHz | 65.84 dBµV/m | 73.98 dBµV/m | -8.14 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.4 GHz | 50.38 dBµV/m | 53.98 dBµV/m | -3.6 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | 22240-25 Amp. CBL26402075, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 2<br>1 |
| Note 1: | |




| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.302 GHz | 53.16 dBµV/m | 73.98 dBµV/m | -20.82 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.302 GHz | 40.17 dBµV/m | 53.98 dBµV/m | -13.81 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: 7.2V DC Li-ion rechargeable battery |
| Antenna: | 22240-25 Amp. CBL26402075, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 2<br>1 |
| Note 1: | |

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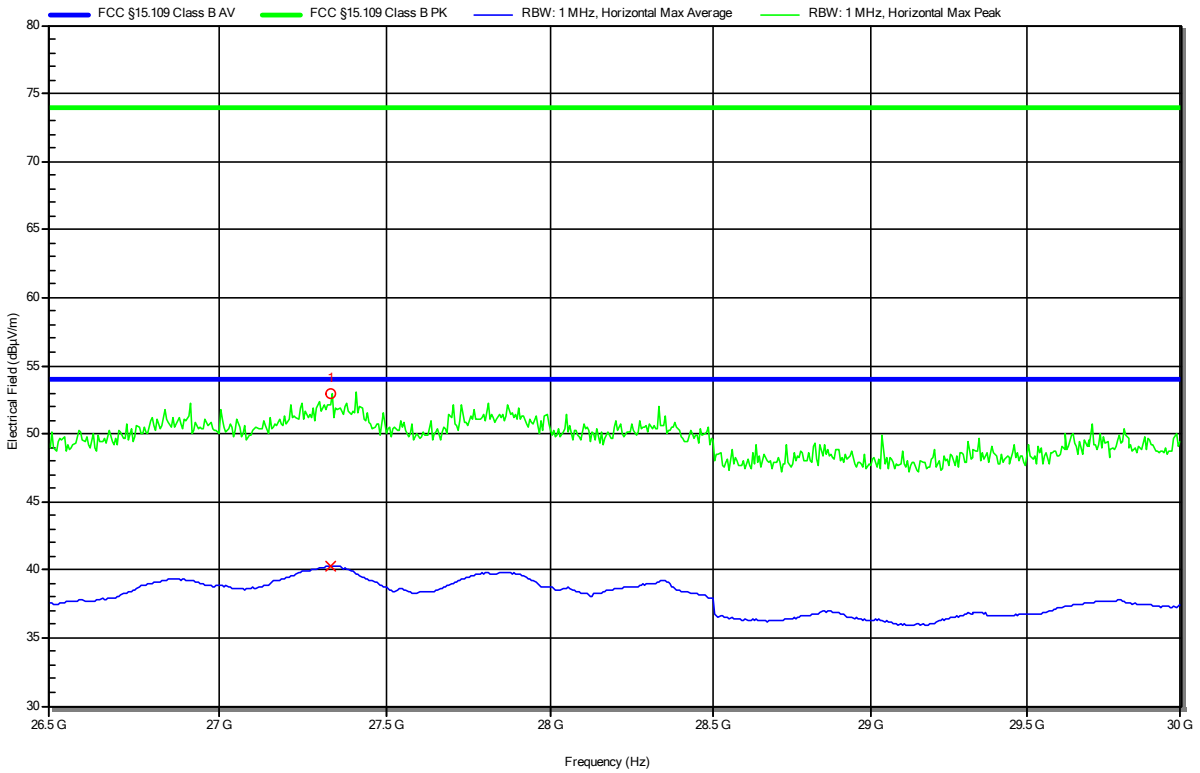


| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.336 GHz | 52.96 dBµV/m | 73.98 dBµV/m | -21.02 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.336 GHz | 40.23 dBµV/m | 53.98 dBµV/m | -13.75 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HK 116, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 4<br>2 |
| Note 1: | |

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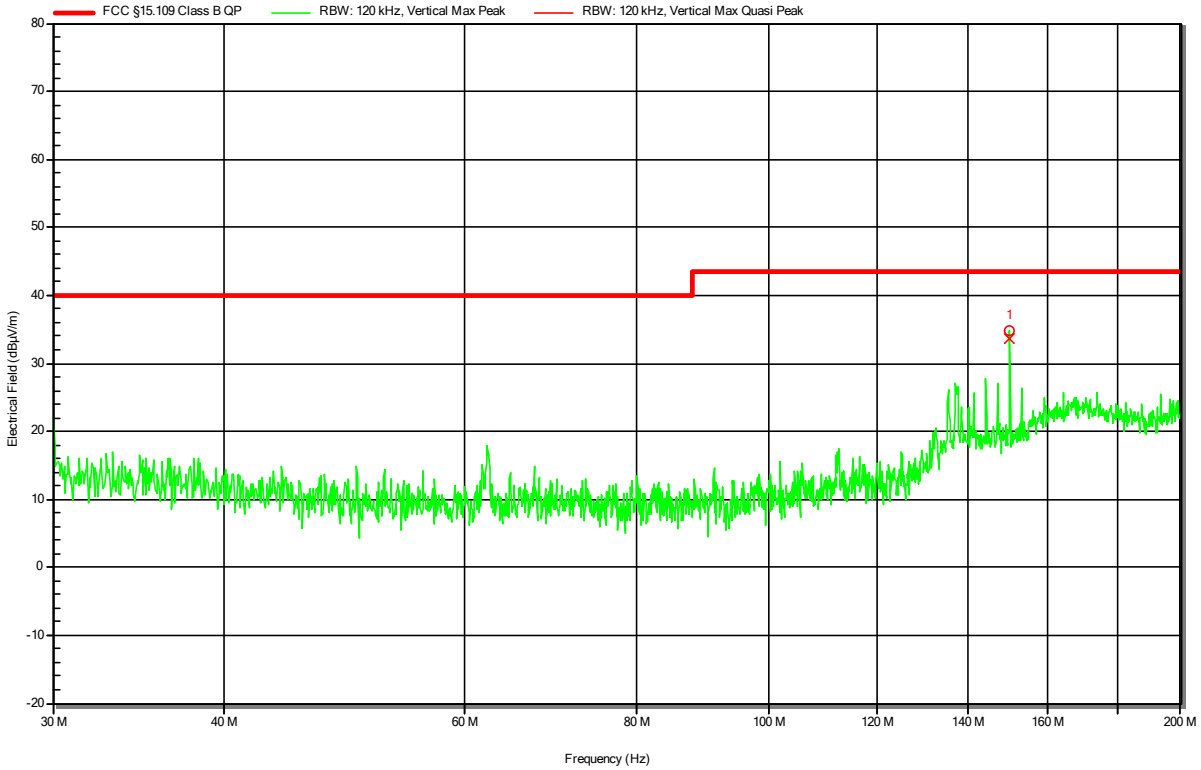
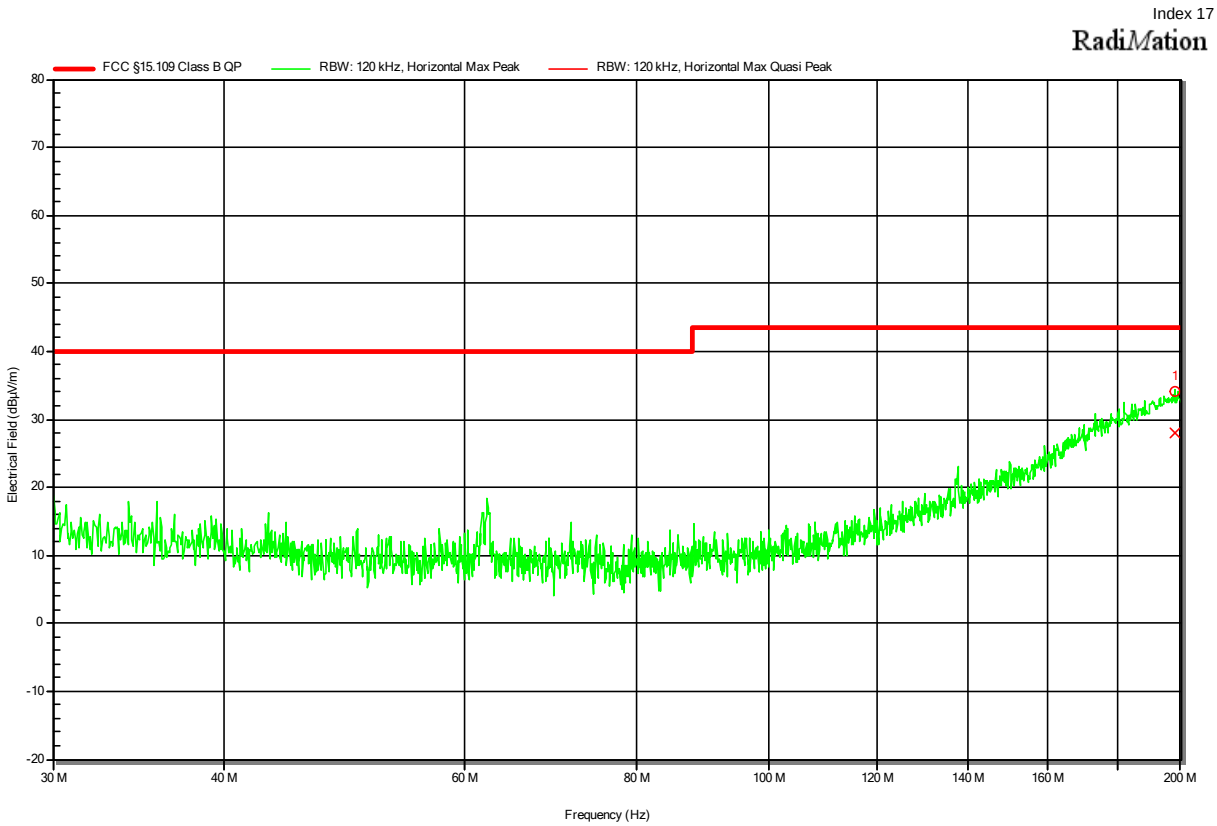
RadiMation




| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 149.997 MHz | 33.56 dBµV/m | 43.52 dBµV/m | -9.96 dB | Pass | -100 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HK 116, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 4<br>2 |
| Note 1: | |




| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 198.138 MHz | 28.01 dBµV/m | 43.52 dBµV/m | -15.51 dB | Pass | 105 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HL 223, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 4<br>2 |
| Note 1: | |

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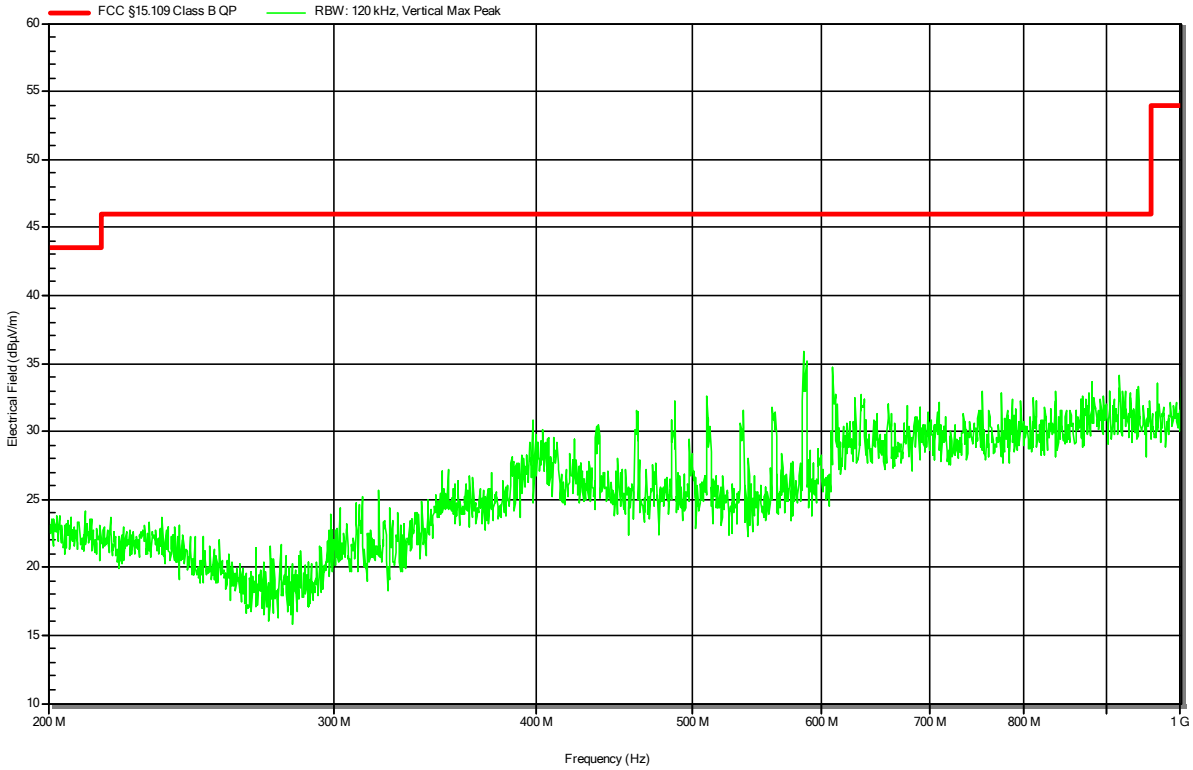
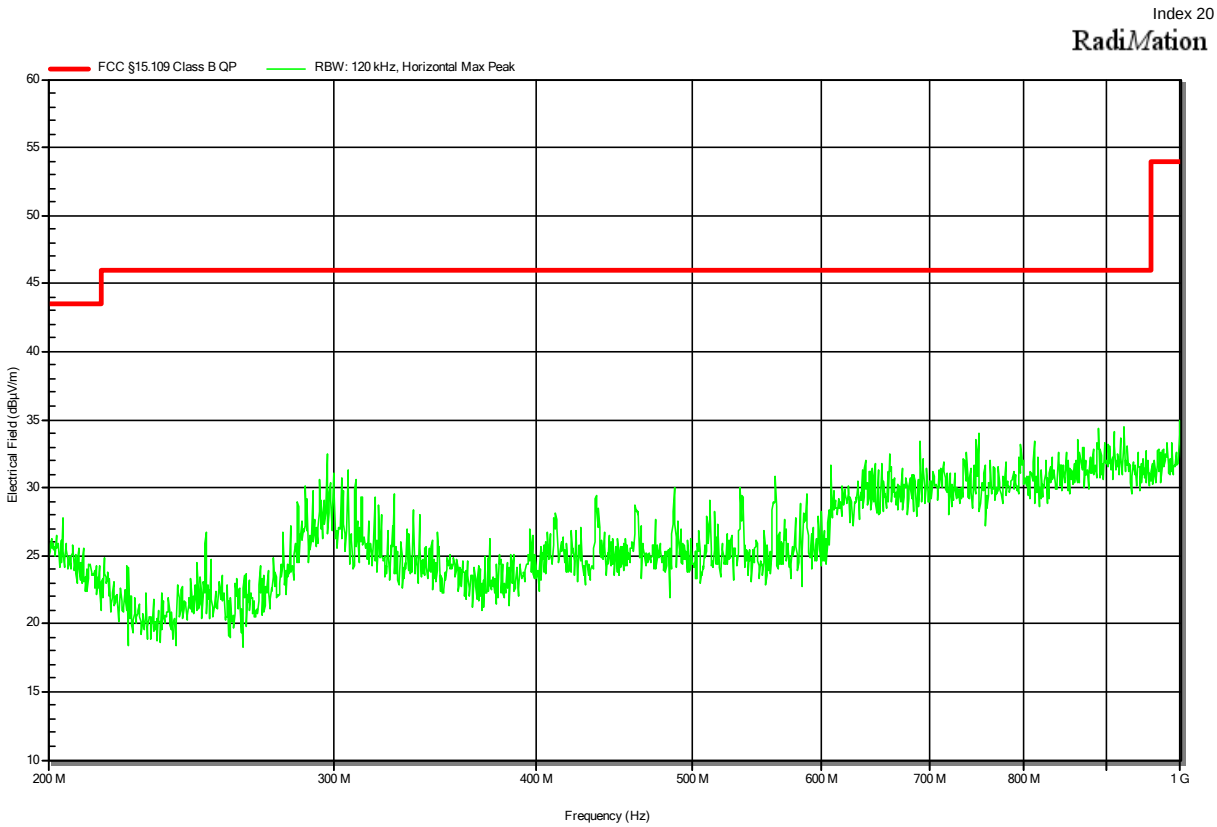
RadiMation



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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Rohde & Schwarz HL 223, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 4<br>2 |
| Note 1: | |



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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 4<br>2 |
| Note 1: | 2.4GHz Notchfilter |

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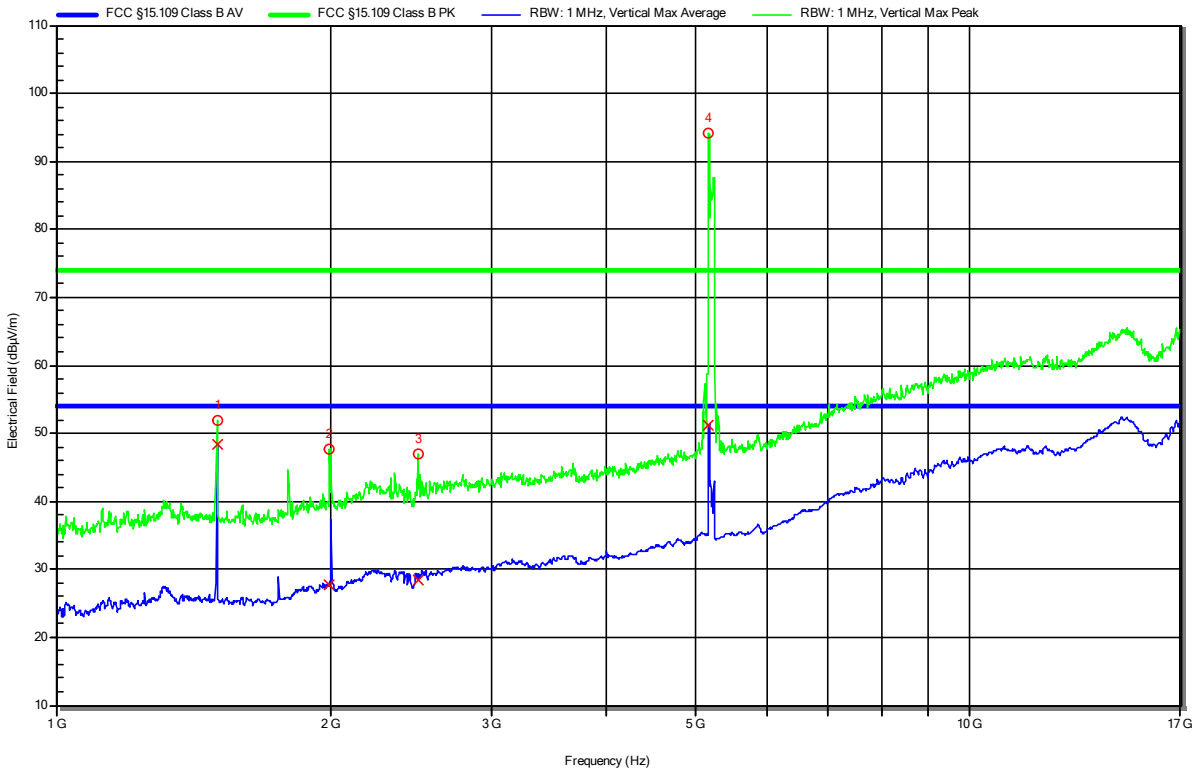
RadiMation

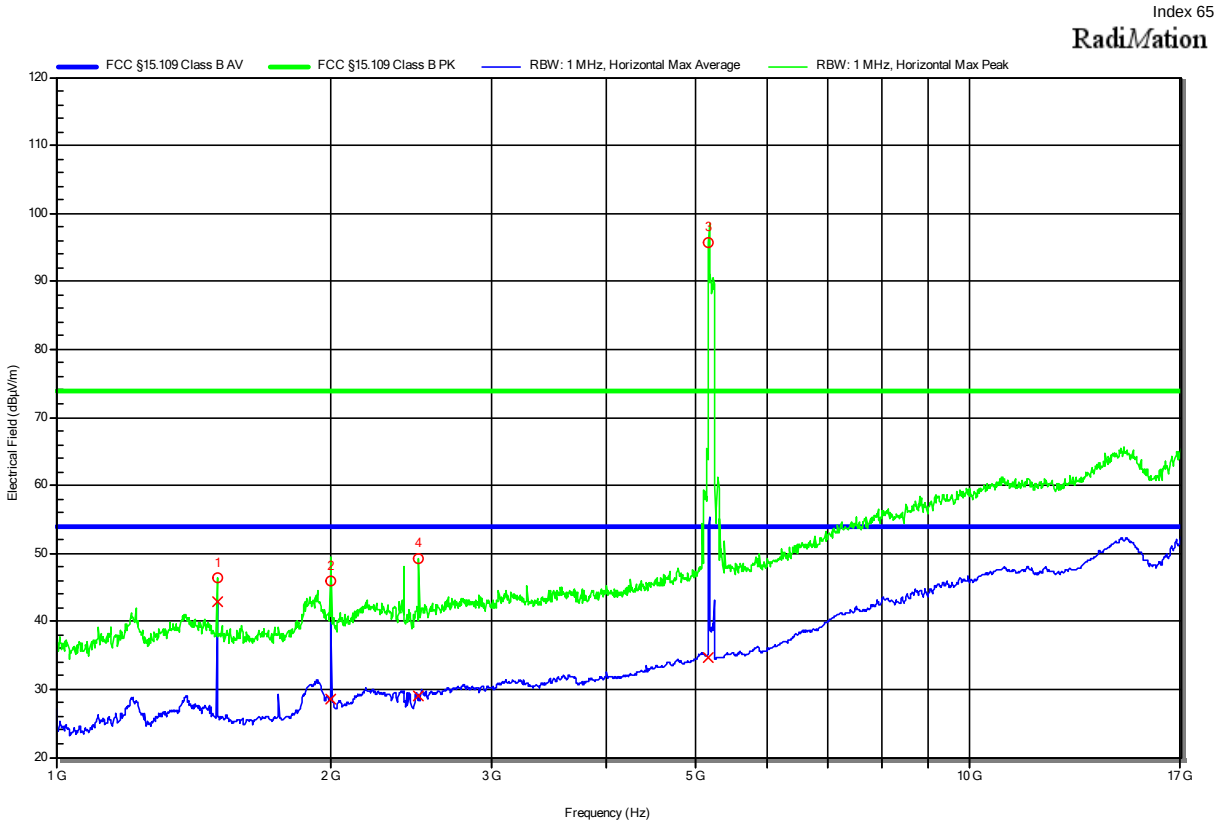



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 51.83 dBµV/m | 73.98 dBµV/m | -22.15 dB | Pass | 150 degrees | 1.4 m |
| 2 | 1.992 GHz | 47.72 dBµV/m | 73.98 dBµV/m | -26.26 dB | Pass | 150 degrees | 1.4 m |
| 3 | 2.49 GHz | Bluetooth carrier | | | | | |
| 4 | 5.179 GHz | 5GHz WLAN carrier | | | | | |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 48.35 dBµV/m | 53.98 dBµV/m | -5.63 dB | Pass | 150 degrees | 1.4 m |
| 2 | 1.992 GHz | 27.8 dBµV/m | 53.98 dBµV/m | -26.18 dB | Pass | 150 degrees | 1.4 m |
| 3 | 2.49 GHz | Bluetooth carrier | | | | | |
| 4 | 5.179 GHz | 5GHz WLAN carrier | | | | | |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 4<br>2 |
| Note 1: | 2.4GHz Notchfilter |




| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 46.39 dBµV/m | 73.98 dBµV/m | -27.59 dB | Pass | 0 degrees | 1.2 m |
| 2 | 1.996 GHz | 46.05 dBµV/m | 73.98 dBµV/m | -27.93 dB | Pass | 0 degrees | 1.2 m |
| 3 | 5.174 GHz | 5GHZ WLAN carrier | | | | | |
| 4 | 2.494 GHz | Bluetooth carrier | | | | | |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 1.5 GHz | 42.82 dBµV/m | 53.98 dBµV/m | -11.16 dB | Pass | 0 degrees | 1.2 m |
| 2 | 1.996 GHz | 28.68 dBµV/m | 53.98 dBµV/m | -25.3 dB | Pass | 0 degrees | 1.2 m |
| 3 | 5.174 GHz | 5GHZ WLAN carrier | | | | | |
| 4 | 2.494 GHz | Bluetooth carrier | | | | | |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Amplifier Research AT4560, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 4<br>2 |
| Note 1: | |

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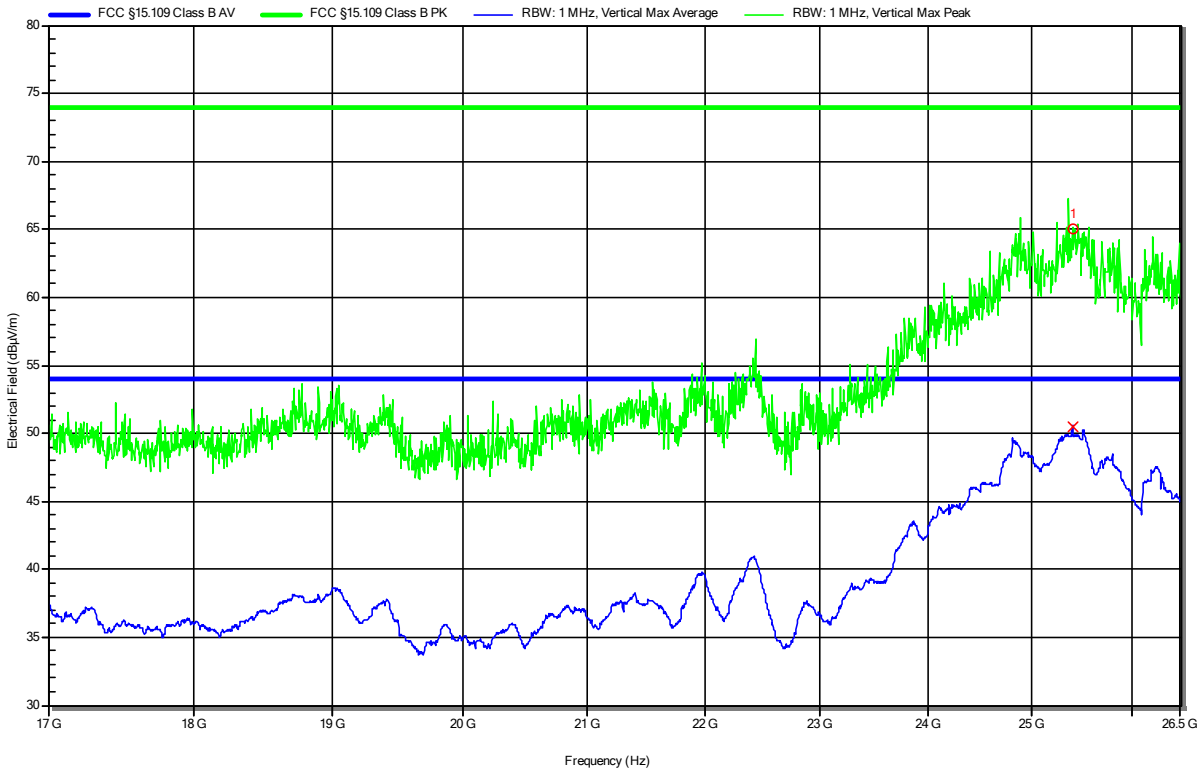
RadiMation

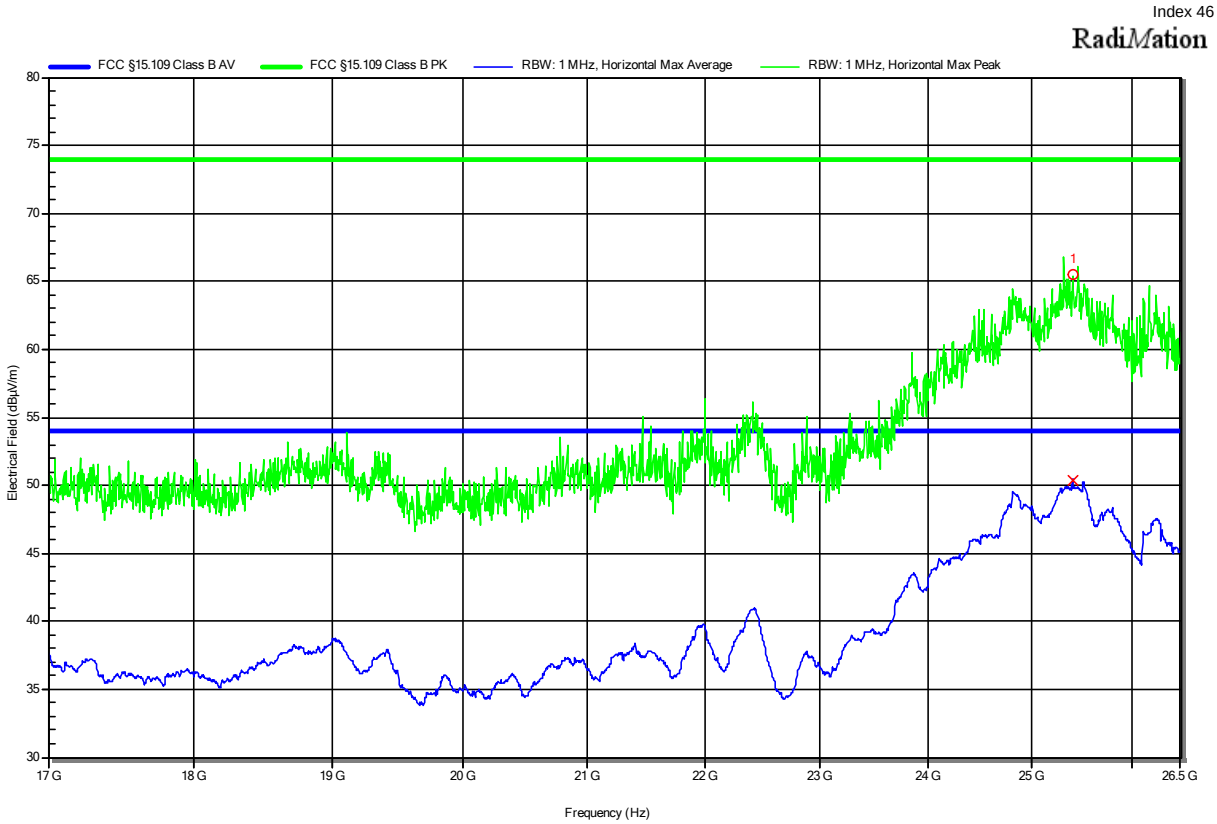



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.399 GHz | 65.05 dBµV/m | 73.98 dBµV/m | -8.93 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.399 GHz | 50.53 dBµV/m | 53.98 dBµV/m | -3.45 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | Amplifier Research AT4560, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 4<br>2 |
| Note 1: | |

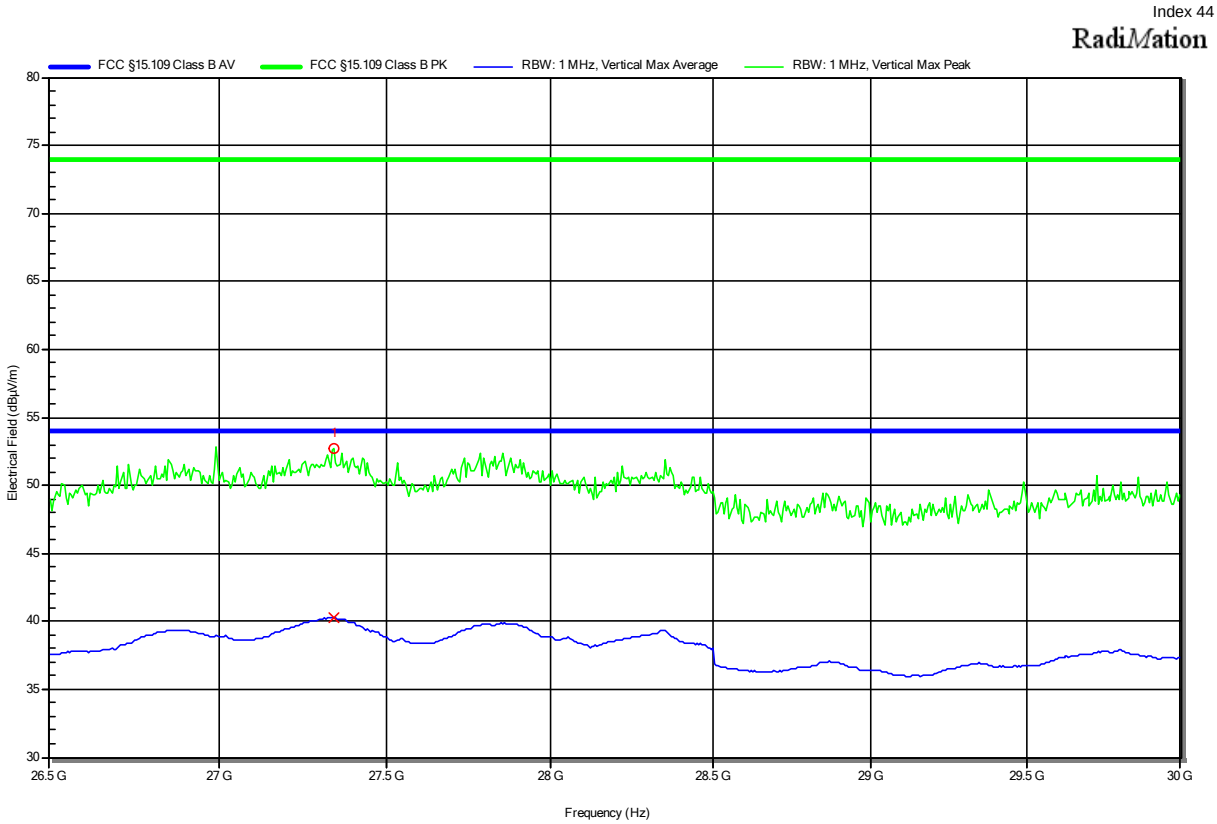



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.4 GHz | 65.48 dBµV/m | 73.98 dBµV/m | -8.5 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 25.4 GHz | 50.38 dBµV/m | 53.98 dBµV/m | -3.6 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | 22240-25 Amp. CBL26402075, Vertical |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 4<br>2 |
| Note 1: | |




| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.341 GHz | 52.74 dBµV/m | 73.98 dBµV/m | -8.5 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.341 GHz | 40.28 dBµV/m | 53.98 dBµV/m | -13.7 dB | Pass | 0 degrees | 1 m |

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

| | |
|---|---|
| Project Number: | G0M-2108-9972 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-28 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| Antenna: | 22240-25 Amp. CBL26402075, Horizontal |
| Measurement Distance: | 3m |
| Operational Mode & EUT Configuration: | 4<br>2 |
| Note 1: | |

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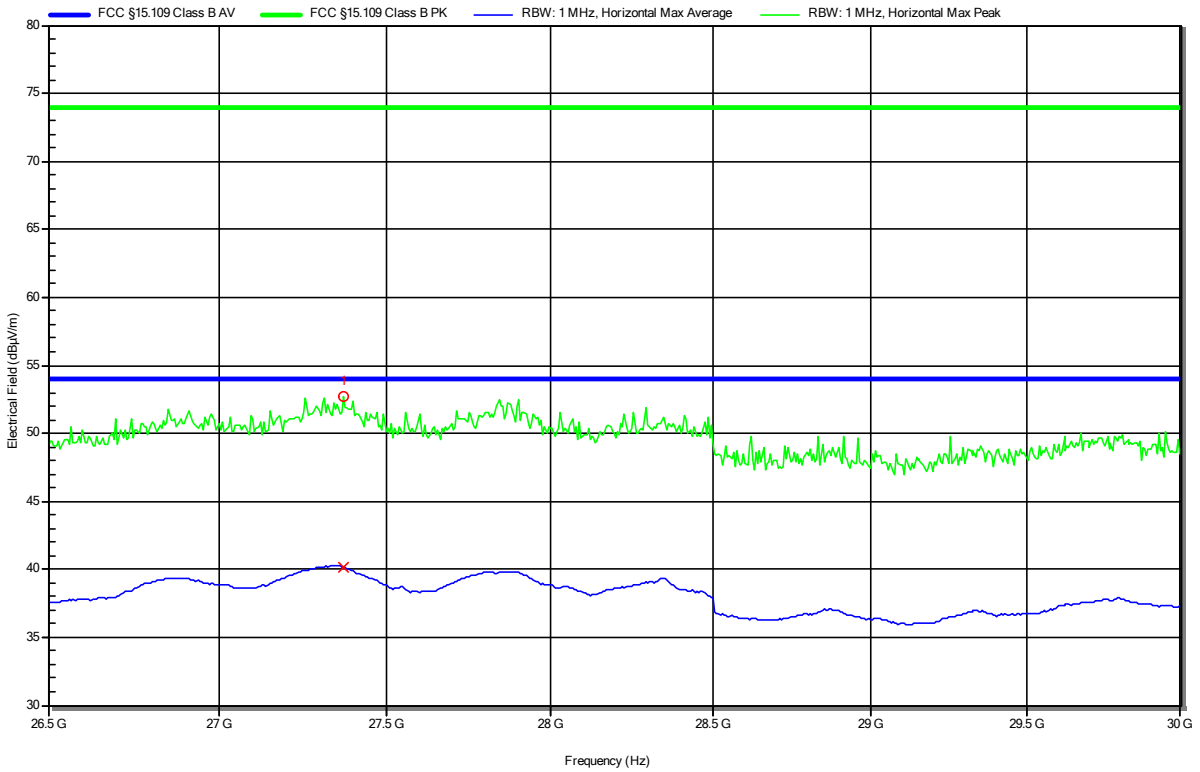



| Peak Number | Frequency | Peak | Peak Limit | Peak Difference | Peak Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.369 GHz | 52.71 dBµV/m | 73.98 dBµV/m | -31.27 dB | Pass | 0 degrees | 1 m |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | Angle | Height |
|---|---|---|---|---|---|---|---|
| 1 | 27.369 GHz | 40.16 dBµV/m | 53.98 dBµV/m | -13.82 dB | Pass | 0 degrees | 1 m |

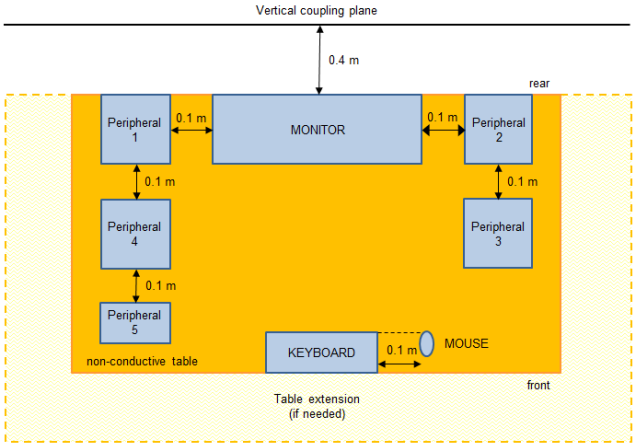
## 2.2 Test Conditions and Results - Conducted emissions acc. to ANSI C63.4

### 2.2.1 Information

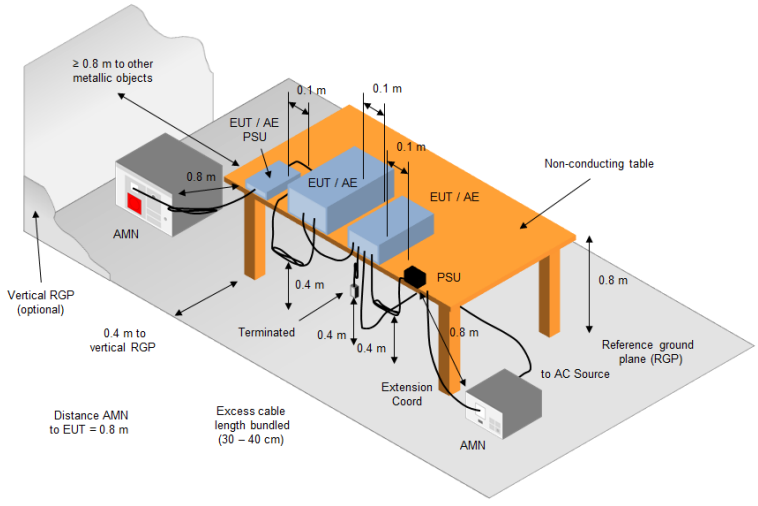
| Test Information | |
|---|---|
| Reference | FCC 15.107, ICES-003, 3.2.1 |
| Reference method | ANSI C63.4:2014+A1:2017 Section 12 |
| Measurement range | 150 kHz to 30 MHz |
| Equipment class | Class B |
| Equipment type | Table top |
| Temperature [°C] | 21 ±3 |
| Humidity [%] | 38 ±3 |
| Operator | Matthias Handrik |
| Date | 2021-10-25 |

### 2.2.2 Setup

**Equipment placement**




**Test Setup**



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 |
| Climatic Sensor | Embedded Data Systems, LLC. | 2800100000254 17E | EF01054 | 2021-03 | 2022-03 |

2.2.4 Procedure

| Exploratory measurement |
|---|
| 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 |
|---|
| 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 | 3 | 2 | PASS | - |
| Power | AMN | 4 | 2 | PASS | - |

2.2.8 Records

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

| | |
|---|---|
| Project Number: | G0M-2108-9971 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| LISN: | Schwarzbeck NSLK 8127 RC N |
| Operational Mode &<br>EUT Configuration: | 3<br>2 |
| Applied to Port: | AC-Mains |
| Note 1: | |

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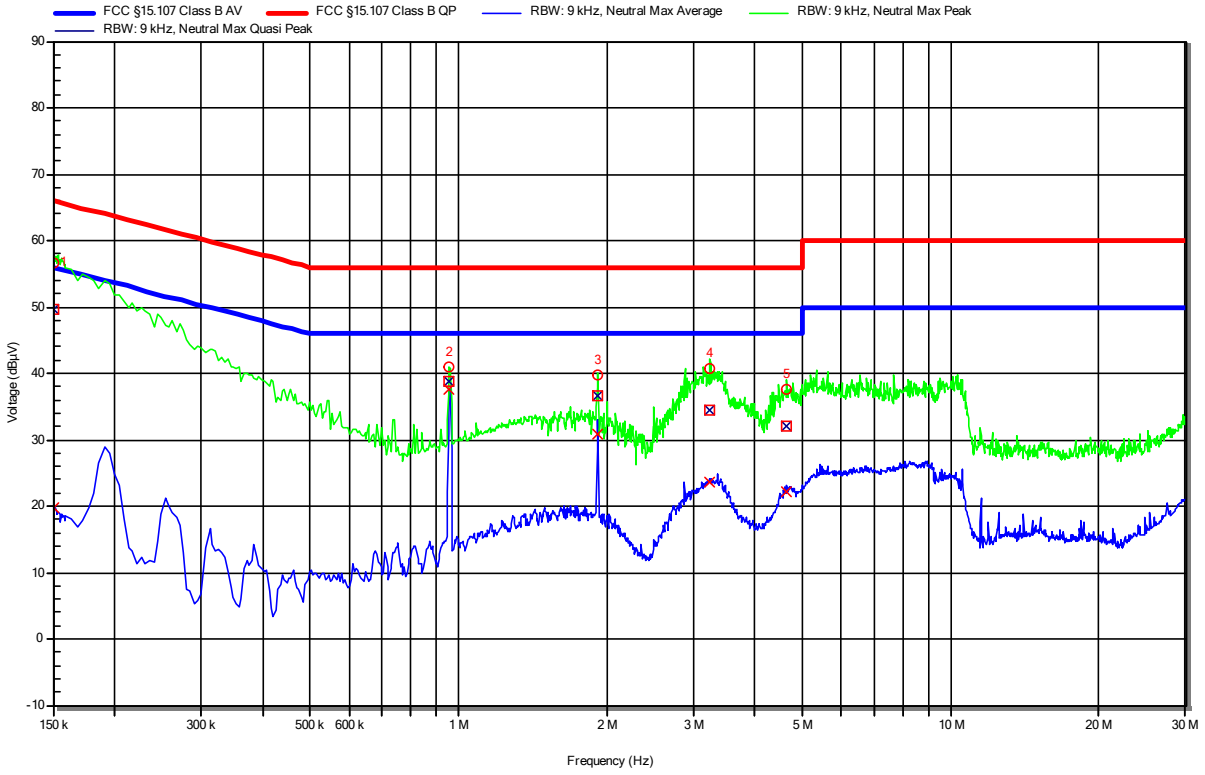

| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | LISN |
|---|---|---|---|---|---|---|
| 1 | 150 kHz | 49.65 dBµV | 66 dBµV | -16.35 dB | Pass | Neutral |
| 2 | 958.65 kHz | 38.75 dBµV | 56 dBµV | -17.25 dB | Pass | Neutral |
| 3 | 1.916 MHz | 36.52 dBµV | 56 dBµV | -19.48 dB | Pass | Neutral |
| 4 | 3.246 MHz | 34.53 dBµV | 56 dBµV | -21.47 dB | Pass | Neutral |
| 5 | 4.641 MHz | 32 dBµV | 56 dBµV | -24 dB | Pass | Neutral |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | LISN |
|---|---|---|---|---|---|---|
| 1 | 150 kHz | 19.68 dBµV | 56 dBµV | -36.32 dB | Pass | Neutral |
| 2 | 958.65 kHz | 37.59 dBµV | 46 dBµV | -8.41 dB | Pass | Neutral |
| 3 | 1.916 MHz | 30.85 dBµV | 46 dBµV | -15.15 dB | Pass | Neutral |
| 4 | 3.246 MHz | 23.55 dBµV | 46 dBµV | -22.45 dB | Pass | Neutral |
| 5 | 4.641 MHz | 22.26 dBµV | 46 dBµV | -23.74 dB | Pass | Neutral |

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

| | |
|---|---|
| Project Number: | G0M-2108-9971 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37018 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| LISN: | Schwarzbeck NSLK 8127 RC L |
| Operational Mode &<br>EUT Configuration: | 3<br>2 |
| Applied to Port: | AC-Mains |
| Note 1: | |

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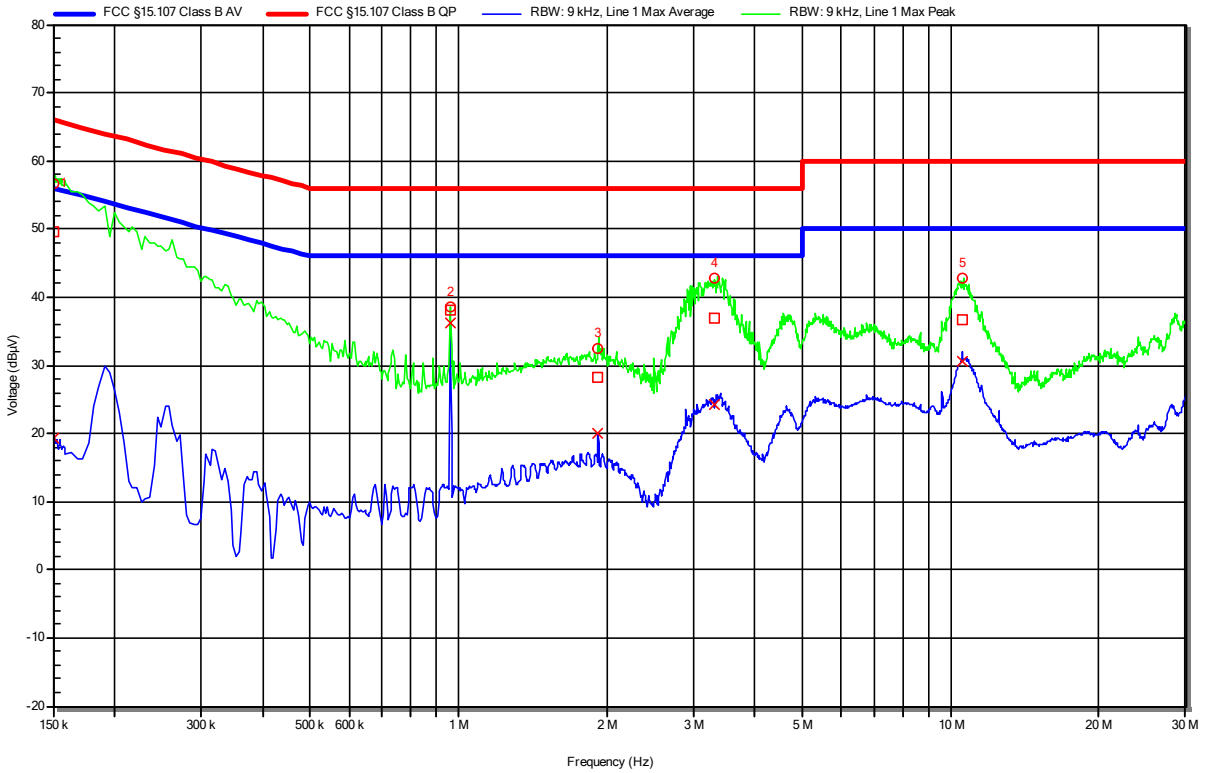

| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | LISN |
|---|---|---|---|---|---|---|
| 1 | 150 kHz | 49.49 dBµV | 66 dBµV | -16.51 dB | Pass | Line 1 |
| 2 | 960 kHz | 38.14 dBµV | 56 dBµV | -17.86 dB | Pass | Line 1 |
| 3 | 1.923 MHz | 28.27 dBµV | 56 dBµV | -27.73 dB | Pass | Line 1 |
| 4 | 3.314 MHz | 37 dBµV | 56 dBµV | -19 dB | Pass | Line 1 |
| 5 | 10.599 MHz | 36.62 dBµV | 60 dBµV | -23.38 dB | Pass | Line 1 |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | LISN |
|---|---|---|---|---|---|---|
| 1 | 150 kHz | 19.25 dBµV | 56 dBµV | -36.75 dB | Pass | Line 1 |
| 2 | 960 kHz | 36.27 dBµV | 46 dBµV | -9.73 dB | Pass | Line 1 |
| 3 | 1.923 MHz | 19.94 dBµV | 46 dBµV | -26.06 dB | Pass | Line 1 |
| 4 | 3.314 MHz | 24.18 dBµV | 46 dBµV | -21.82 dB | Pass | Line 1 |
| 5 | 10.599 MHz | 30.66 dBµV | 50 dBµV | -19.34 dB | Pass | Line 1 |

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

| | |
|---|---|
| Project Number: | G0M-2108-9971 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| LISN: | Schwarzbeck NSLK 8127 RC N |
| Operational Mode & EUT Configuration: | 4<br>2 |
| Applied to Port: | AC-Mains |
| Note 1: | |

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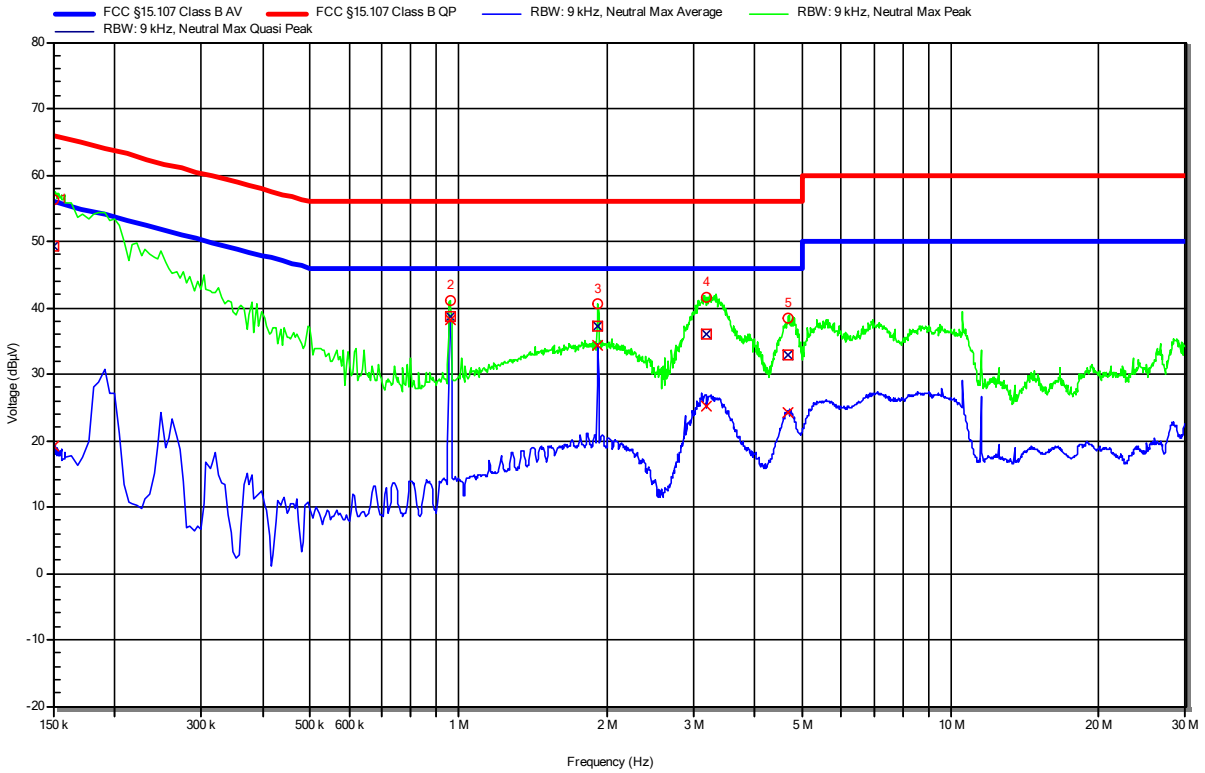

| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | LISN |
|---|---|---|---|---|---|---|
| 1 | 150 kHz | 49.27 dBµV | 66 dBµV | -16.73 dB | Pass | Neutral |
| 2 | 960 kHz | 38.79 dBµV | 56 dBµV | -17.21 dB | Pass | Neutral |
| 3 | 1.919 MHz | 37.19 dBµV | 56 dBµV | -18.81 dB | Pass | Neutral |
| 4 | 3.192 MHz | 36.05 dBµV | 56 dBµV | -19.95 dB | Pass | Neutral |
| 5 | 4.686 MHz | 32.95 dBµV | 56 dBµV | -23.05 dB | Pass | Neutral |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | LISN |
|---|---|---|---|---|---|---|
| 1 | 150 kHz | 19.13 dBµV | 56 dBµV | -36.87 dB | Pass | Neutral |
| 2 | 960 kHz | 38.2 dBµV | 46 dBµV | -7.8 dB | Pass | Neutral |
| 3 | 1.919 MHz | 34.38 dBµV | 46 dBµV | -11.62 dB | Pass | Neutral |
| 4 | 3.192 MHz | 25.26 dBµV | 46 dBµV | -20.74 dB | Pass | Neutral |
| 5 | 4.686 MHz | 24.31 dBµV | 46 dBµV | -21.69 dB | Pass | Neutral |

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

| | |
|---|---|
| Project Number: | G0M-2108-9971 |
| Applicant: | Leica Geosystems AG |
| Model Description: | Imaging Laser Scanner |
| Model: | BLK360 G2 |
| Test Sample ID: | 37019 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Handrik |
| Test Date: | 2021-10-25 |
| Operating Conditions: | ambient temperature: 21 °Celsius<br>power input: USB + 7.2V DC Li-ion rechargeable battery |
| LISN: | Schwarzbeck NSLK 8127 RC L |
| Operational Mode &<br>EUT Configuration: | 4<br>2 |
| Applied to Port: | AC-Mains |
| Note 1: | |

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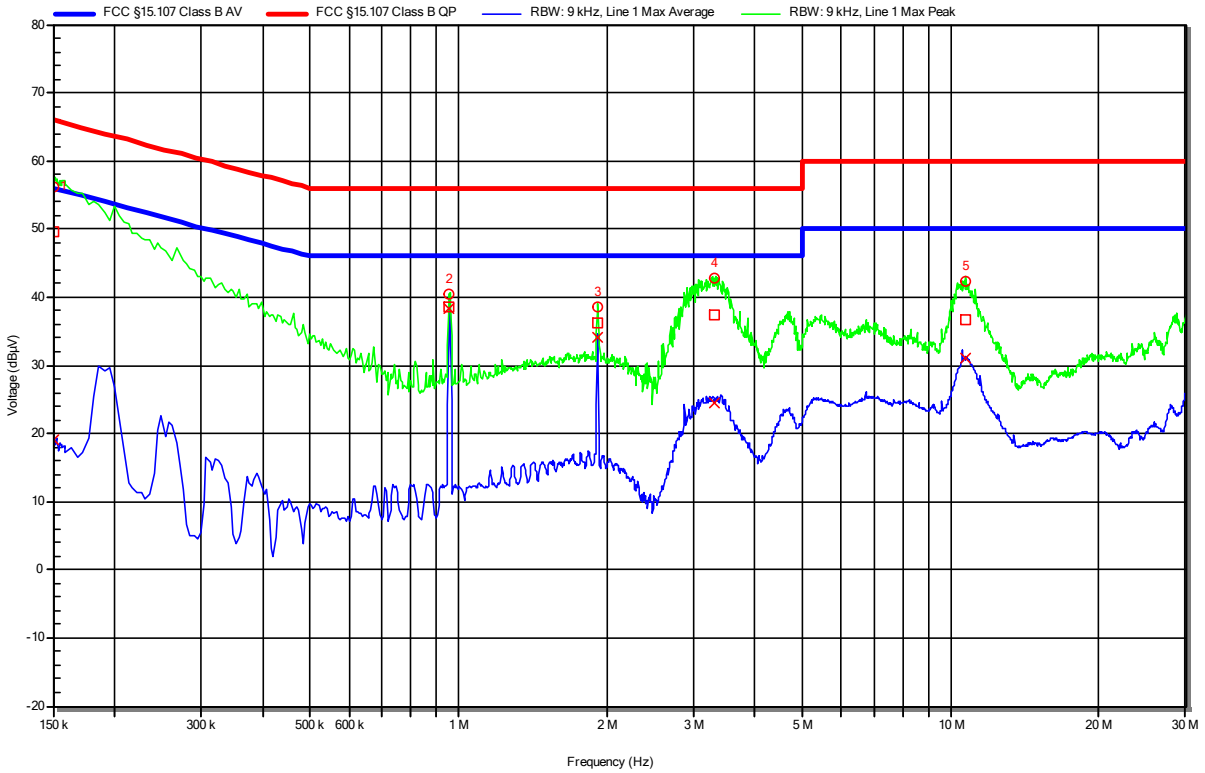

| Peak Number | Frequency | Quasi-Peak | Quasi-Peak Limit | Quasi-Peak Difference | Quasi-Peak Status | LISN |
|---|---|---|---|---|---|---|
| 1 | 150 kHz | 49.52 dBµV | 66 dBµV | -16.48 dB | Pass | Line 1 |
| 2 | 957.75 kHz | 38.67 dBµV | 56 dBµV | -17.33 dB | Pass | Line 1 |
| 3 | 1.915 MHz | 36.14 dBµV | 56 dBµV | -19.86 dB | Pass | Line 1 |
| 4 | 3.318 MHz | 37.28 dBµV | 56 dBµV | -18.72 dB | Pass | Line 1 |
| 5 | 10.716 MHz | 36.79 dBµV | 60 dBµV | -23.21 dB | Pass | Line 1 |

| Peak Number | Frequency | Average | Average Limit | Average Difference | Average Status | LISN |
|---|---|---|---|---|---|---|
| 1 | 150 kHz | 19.19 dBµV | 56 dBµV | -36.81 dB | Pass | Line 1 |
| 2 | 957.75 kHz | 38.24 dBµV | 46 dBµV | -7.76 dB | Pass | Line 1 |
| 3 | 1.915 MHz | 34.15 dBµV | 46 dBµV | -11.85 dB | Pass | Line 1 |
| 4 | 3.318 MHz | 24.47 dBµV | 46 dBµV | -21.53 dB | Pass | Line 1 |
| 5 | 10.716 MHz | 30.94 dBµV | 50 dBµV | -19.06 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<br>200MHz to 1GHz @ 3m, 5.3dB<br>>1GHz to 6GHz @3m, 5.95dB |