

| FCC TEST REPORT FCC 47 CFR Part 15C Industry Canada RSS-210 Frequency hopping systems operating within the 2400 – 2483.5 MHz band | |
|--|---|
| Report Reference No. | G0M-1406-3914-TFC247BT-V01 |
| Testing Laboratory | Eurofins Product Service GmbH |
| Address..... | Storkower Str. 38c 15526 Reichenwalde Germany |
| Accreditation | <div style="display: flex; justify-content: center; align-items: center;">   </div> <p style="text-align: center; margin-top: 5px;"> A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A </p> |
| Applicant's name | Leica Geosystems AG |
| Address..... | Heinrich Wild Strasse 9435 Heerbrugg SWITZERLAND |
| Test specification: | |
| Standard | 47 CFR Part 15C RSS-210, Issue 8, 2010-12 RSS-Gen, Issue 4, 2014-11 ANSI C63.4:2009 |
| Test scope..... | partial Radio compliance test |
| Equipment under test (EUT): | |
| Product description | Long Range Bluetooth remote control |
| Model No. | CTR20 |
| Additional Model(s) | None |
| Brand Name(s) | Leica Geosystems |
| Hardware version | V5.0 |
| Firmware / Software version | V4.7 |
| | FCC-ID: RFD-CTR20 IC: 3177A-CTR20 |
| Contains | FCC-ID: PVH0939 IC: 5325A-0939 |
| Test result | Passed |

Test Report No.: G0M-1406-3914-TFC247BT-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Possible test case verdicts:

- neither assessed nor tested: N/N
- required by standard but not appl. to test object.....: N/A
- required by standard but not tested.....: N/T
- not required by standard for the test object: N/R
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement.....: F (Fail)

Testing:

Test Lab Temperature.....: 20 – 23 °C

Test Lab Humidity: 32 – 38 %

Date of receipt of test item: 2015-02-23

Date (s) of performance of tests: 2015-02-23 - 2015-03-03

Compiled by: Burkhard Pudell

Tested by (+ signature).....: Burkhard Pudell *B. Pudell*
 (Responsible for Test)

Approved by (+ signature): Christian Weber *C. Weber*

Date of issue: 2015-04-29

Total number of pages: 86

General remarks:

The test results presented in this report relate only to the object tested.

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.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional comments:

The EUT uses a radio module certified under FCC-ID PVH0946 and IC ID 5325A-0946. The EUT uses exactly the same hardware except for the antenna. The antenna connected to the module is different and therefore the conducted results for the EUT are identical to the conducted results of the module and the radiated tests are made with the EUT antenna and given in this test report.

Version History

| Version | Issue Date | Remarks | Revised by |
|---------|------------|-----------------|------------|
| 01 | 2015-04-29 | Initial Release | |

REPORT INDEX

| | | |
|----------|---|-----------|
| 1 | EQUIPMENT (TEST ITEM) DESCRIPTION | 5 |
| 1.1 | Photos – Equipment External | 7 |
| 1.2 | Photos – Equipment internal | 10 |
| 1.3 | Photos – Test setup | 12 |
| 1.4 | Supporting Equipment Used During Testing | 13 |
| 1.5 | Test Modes | 14 |
| 1.6 | Test Equipment Used During Testing | 15 |
| 1.7 | Sample emission level calculation | 16 |
| 2 | RESULT SUMMARY | 17 |
| 3 | TEST CONDITIONS AND RESULTS | 18 |
| 3.1 | Test Conditions and Results – Occupied Bandwidth | 18 |
| 3.2 | Test Conditions and Results – AC power line conducted emissions | 22 |
| 3.3 | Test Conditions and Results – Transmitter radiated emissions | 25 |
| 3.4 | Test Conditions and Results – Receiver radiated emissions | 27 |
| ANNEX A | Transmitter radiated spurious emissions | 29 |
| ANNEX B | Receiver radiated spurious emissions | 77 |

1 Equipment (Test item) Description

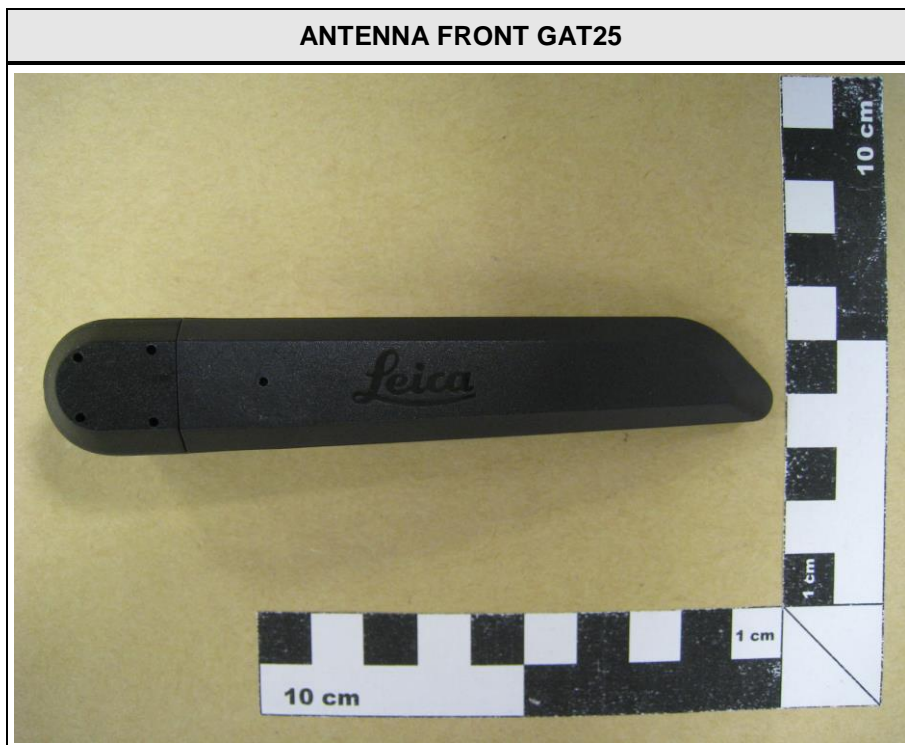
| | | |
|------------------------------------|---|-----------------------|
| Description | Long Range Bluetooth remote control | |
| Model | CTR20 | |
| Additional Model(s) | None | |
| Brand Name(s) | Leica Geosystems | |
| Serial number | None | |
| Hardware version | V5.0 | |
| Software / Firmware version | V4.7 | |
| FCC-ID | RFD-CTR20 | |
| IC | 3177A-CTR20 | |
| Contains FCC-ID | PVH0939 | |
| Contains IC | 5325A-0939 | |
| Equipment type | End product | |
| Radio type | Transceiver | |
| Radio technology | Bluetooth | |
| Operating frequency range | 2402 - 2480 MHz | |
| Assigned frequency band | 2400 - 2483.5 MHz | |
| Main test frequencies | F _{LOW} | 2402 MHz |
| | F _{MID} | 2441 MHz |
| | F _{HIGH} | 2480 MHz |
| Spreading | FHSS | |
| Modulations | GFSK | |
| Number of channels | 79 hopping channels at all | |
| Channel spacing | 1 MHz | |
| Number of antennas | 1 | |
| Antenna | Type | external dedicated |
| | Model | GAT25 |
| | Manufacturer | Radial |
| | Gain | 2.0 dBi (declaration) |
| Manufacturer | Leica Geosystems AG Heinrich Wild Strasse 9435 Heerbrugg SWITZERLAND | |
| Power supply | V _{NOM} | 5.0 VDC |
| | V _{MIN} | 4.75 VDC |
| | V _{MIN} | 5.25 VDC |

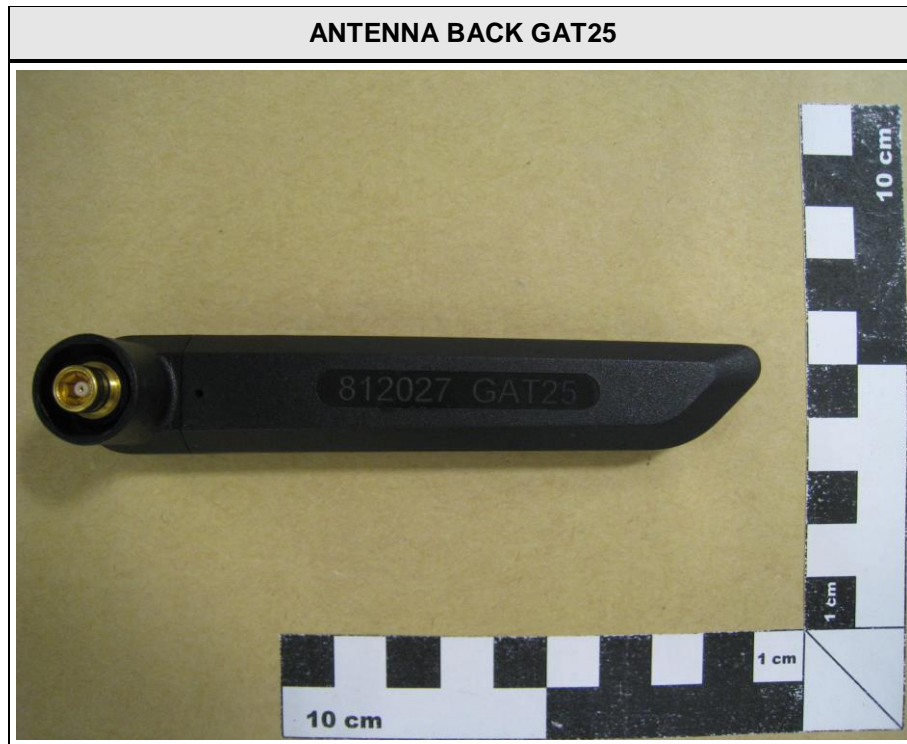
| | | |
|----------------------|--------|-----|
| AC/DC-Adaptor | Model | N/A |
| | Vendor | N/A |
| | Input | N/A |
| | Output | N/A |

1.1 Photos – Equipment External

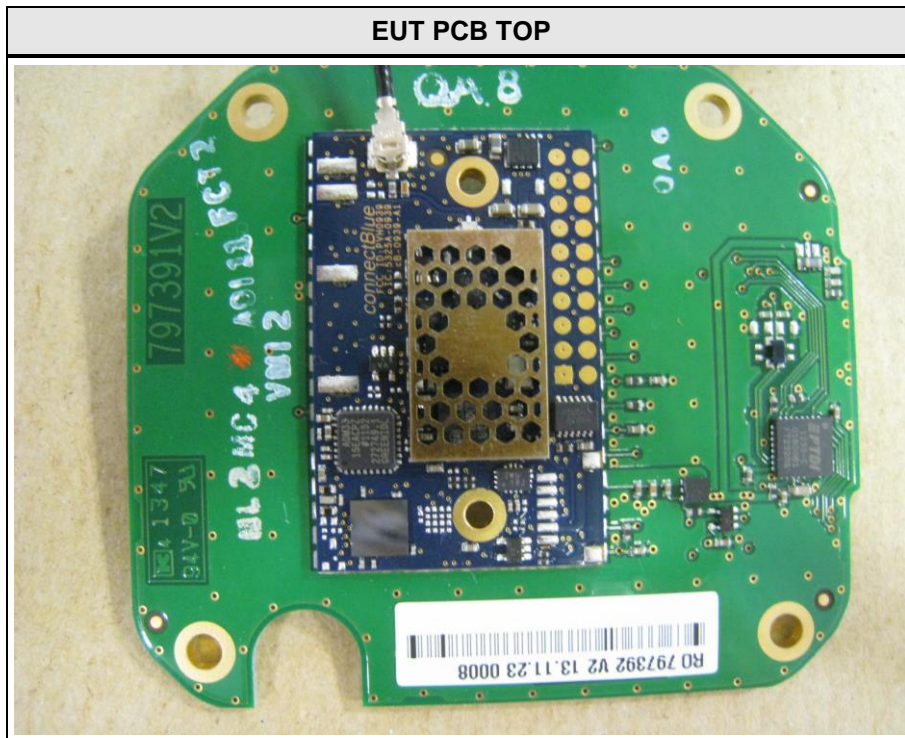
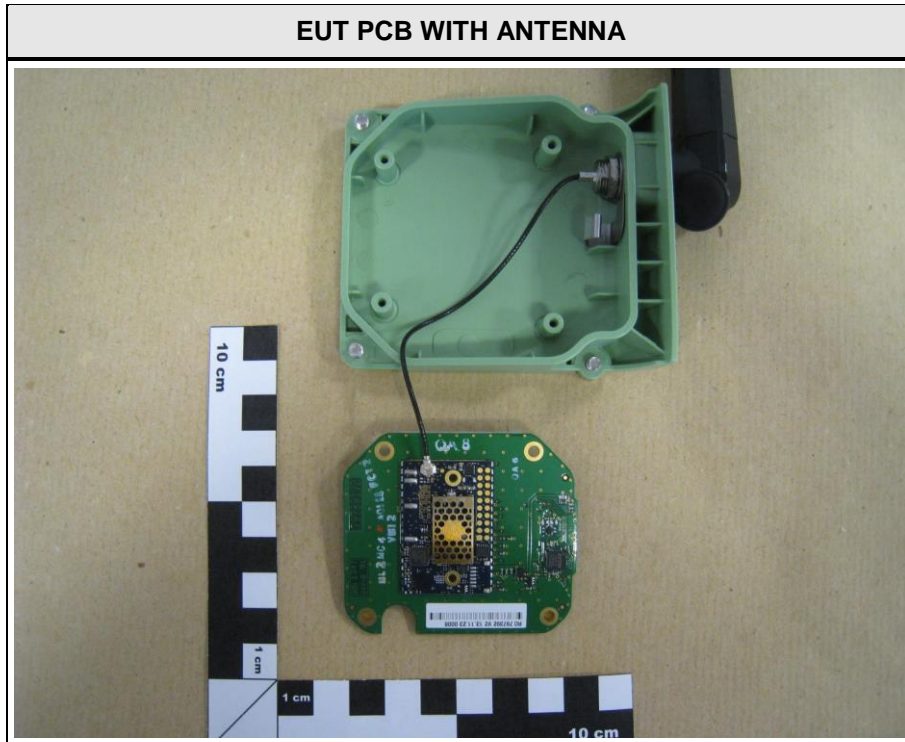

Test Report No.: G0M-1406-3914-TFC247BT-V01

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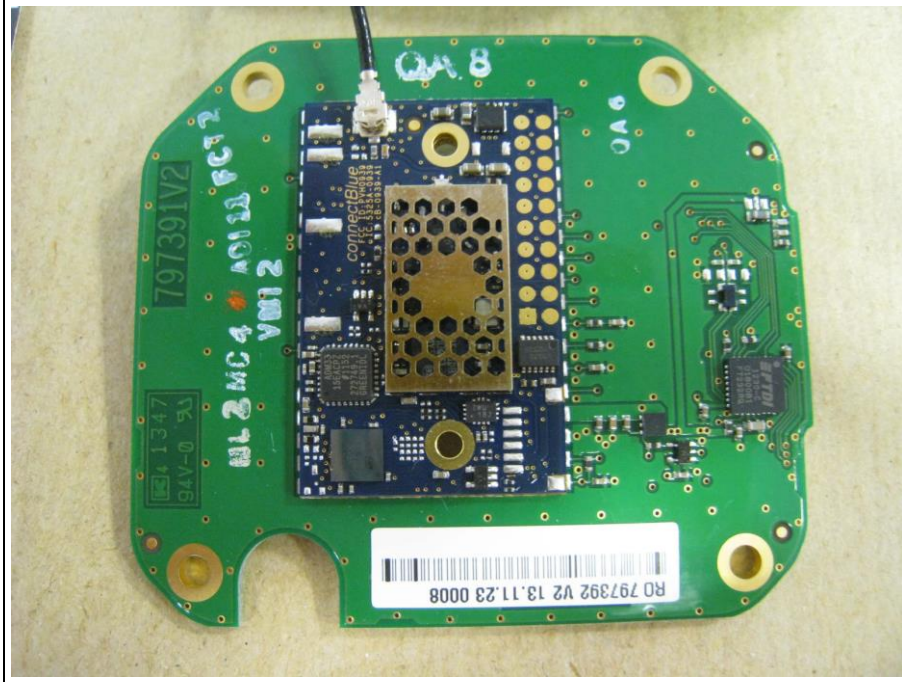




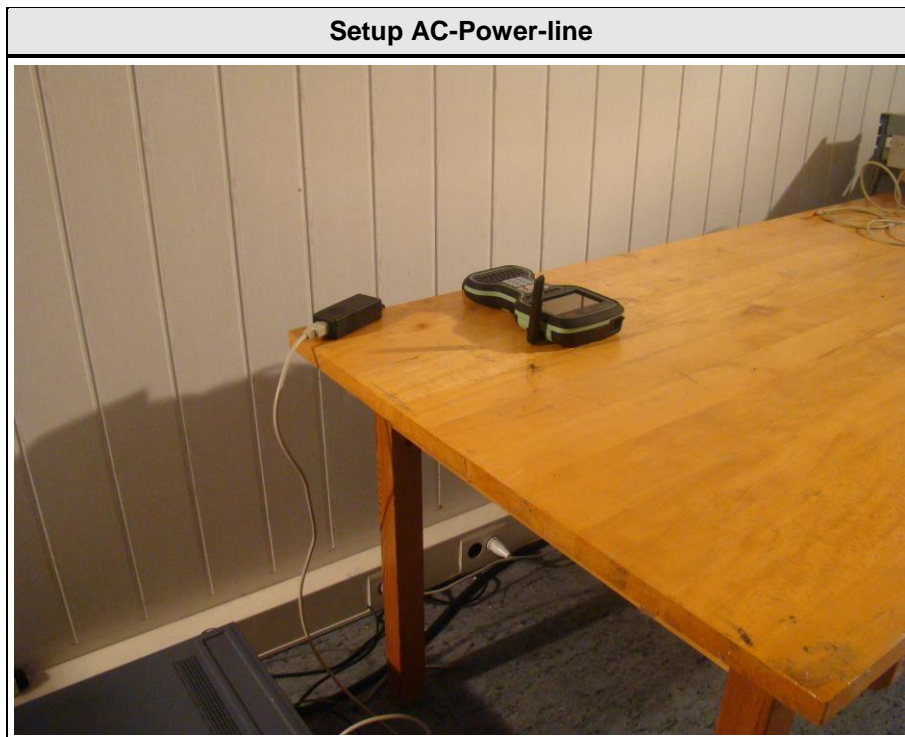
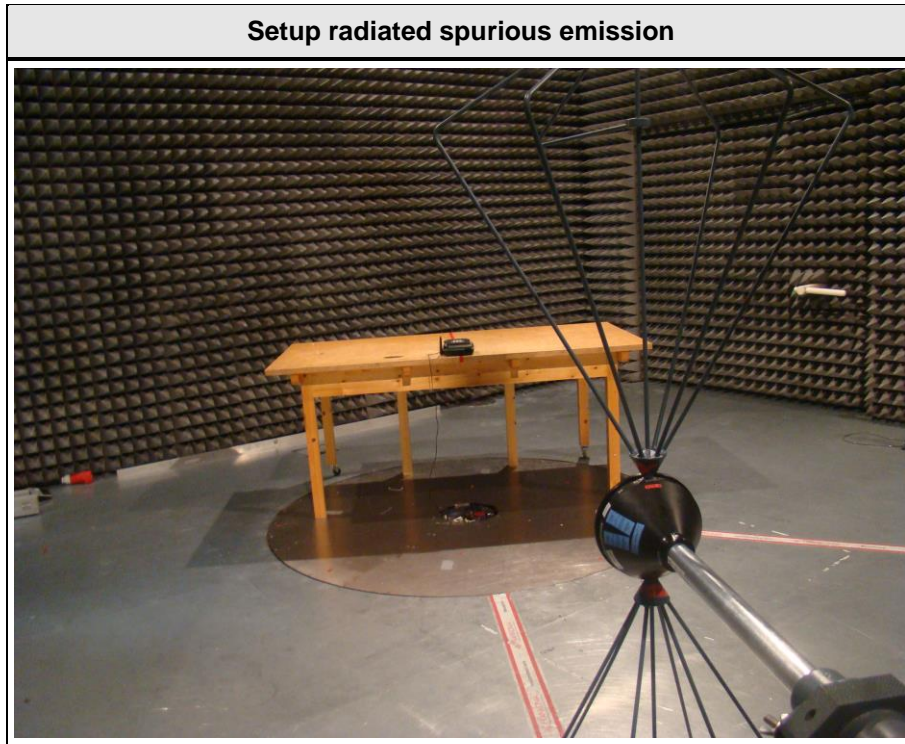
1.2 Photos – Equipment internal



EUT PCB BOTTOM



1.3 Photos – Test setup



1.4 Supporting Equipment Used During Testing

| Product Type* | Device | Manufacturer | Model No. | Comments |
|---------------|--------|--------------|-----------|--------------------|
| AE | CS20 | Leica | 808012 | Basic - device |
| SIM | CBT | R&S | EF00358 | Bluetooth - Tester |

***Note:** Use the following abbreviations:

AE : Auxiliary/Associated Equipment, or

SIM : Simulator (Not Subjected to Test)

CABL : Connecting cables

1.5 Test Modes

| Mode # | Description | |
|--------------|---------------------|--|
| DH5 | General conditions: | EUT powered by internal accu |
| | Radio conditions: | Mode = DUT-Testmode Modulation = GFSK Power setting = Max |
| AC-Powerline | General conditions: | EUT powered by commercial AC/DC-Adapter |
| | Radio conditions: | Mode = standalone transmit Spreading = Hopping Power level = Maximum |
| Receive | General conditions: | EUT powered by internal accu |
| | Radio conditions: | Mode = DUT-Slave mode |

1.6 Test Equipment Used During Testing

| Measurement Software | | | |
|-----------------------------|------------------|------------|-----------|
| Description | Manufacturer | Name | Version |
| EMC Test Software | Dare Instruments | Radimation | 2014.1.15 |

| Occupied Bandwidth | | | | | |
|---------------------------|--------------|---------|------------|-----------|----------|
| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due |
| Spectrum Analyzer | R&S | FSEK 30 | EF00168 | 2015-01 | 2016-01 |

| Radiated spurious emissions | | | | | |
|------------------------------------|--------------|------------|------------|-----------|----------|
| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due |
| Semi-anechoic chamber | Frankonia | AC 1 | EF00062 | - | - |
| Spectrum Analyzer | R&S | FSEK 30 | EF00168 | 2015-01 | 2016-01 |
| Biconical Antenna | R&S | HK 116 | EF00203 | 2014-04 | 2016-04 |
| LPD Antenna | R&S | HL 223 | EF00013 | 2014-04 | 2016-04 |
| LPD Antenna | R&S | BBHA 9120D | EF00019 | 2014-03 | 2016-03 |

| AC powerline conducted emissions | | | | | |
|---|--------------|---------|------------|-----------|----------|
| Description | Manufacturer | Model | Identifier | Cal. Date | Cal. Due |
| AMN | R&S | ESH2-Z5 | EF00182 | 2014-11 | 2016-11 |
| EMI Test Receiver | R&S | ESCS 30 | EF00295 | 2014-10 | 2015-10 |

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 analyzer in dB μ V. Any external preamplifiers used are taken into account through internal analyzer 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 analyzer. 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:

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

Net:

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

Limit:

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

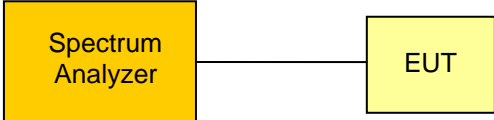
$$\begin{array}{rclcl} \text{Reading} & + & \text{AF} & = & \text{Net Reading} & : & \text{Net reading - FCC limit} & = & \text{Margin} \\ 21.5 \text{ dB}\mu\text{V} & + & 26 \text{ dB} & = & 47.5 \text{ dB}\mu\text{V/m} & : & 47.5 \text{ dB}\mu\text{V/m} - 57.0 \text{ dB}\mu\text{V/m} & = & -9.5 \text{ dB} \end{array}$$

2 Result Summary

| FCC 47 CFR Part 15C, IC RSS-210 | | | | |
|---|---|---|--------|--|
| Product Specific Standard Section | Requirement – Test | Reference Method | Result | Remarks |
| RSS-Gen 6.6 | Occupied Bandwidth | RSS-Gen 6.6 | N/R | Informational only |
| FCC § 15.247(a)(1) IC RSS-210 § A8.1 | 20 dB Bandwidth | Public notice DA 00-705 | N/R | Test results are given in test report under FCC-ID PVH0946 |
| FCC § 15.247(a)(1)(iii) IC RSS-210 § A8.1 | Number of hopping frequencies | Public notice DA 00-705 | N/R | Test results are given in test report under FCC-ID PVH0946 |
| FCC § 15.247(a)(1) IC RSS-210 § A8.1 | Frequency hopping channel separation | Public notice DA 00-705 | N/R | Test results are given in test report under FCC-ID PVH0946 |
| FCC § 15.247(a)(1)(iii) IC RSS-210 § A8.1 | Time of occupancy (Dwell time) | Public notice DA 00-705 | N/R | Test results are given in test report under FCC-ID PVH0946 |
| FCC § 15.247(b)(1) IC RSS-210 § A8.4 | Maximum peak conducted power | Public notice DA 00-705 | N/R | Test results are given in test report under FCC-ID PVH0946 |
| 47 CFR 15.207 RSS-Gen 8.8 | AC power line conducted emissions | ANSI C63.4 | PASS | |
| FCC § 15.247(d) IC RSS-210 § A8.5 | Band edge compliance | Public notice DA 00-705 | N/R | Test results are given in test report under FCC-ID PVH0946 |
| FCC § 15.247(d) IC RSS-210 § A8.5 | Conducted spurious emissions | Public notice DA 00-705 | N/R | Test results are given in test report under FCC-ID PVH0946 |
| FCC § 15.247(d) FCC § 15.209 IC RSS-210 A8.5 IC RSS-Gen 6.13 | Transmitter radiated spurious emissions | Public notice DA 00-705 / ANSI C 63.4 | PASS | |
| IC RSS-Gen 7.1 | Receiver radiated spurious emissions | ANSI C 63.4 | PASS | |
| Remarks: | | | | |

3 Test Conditions and Results

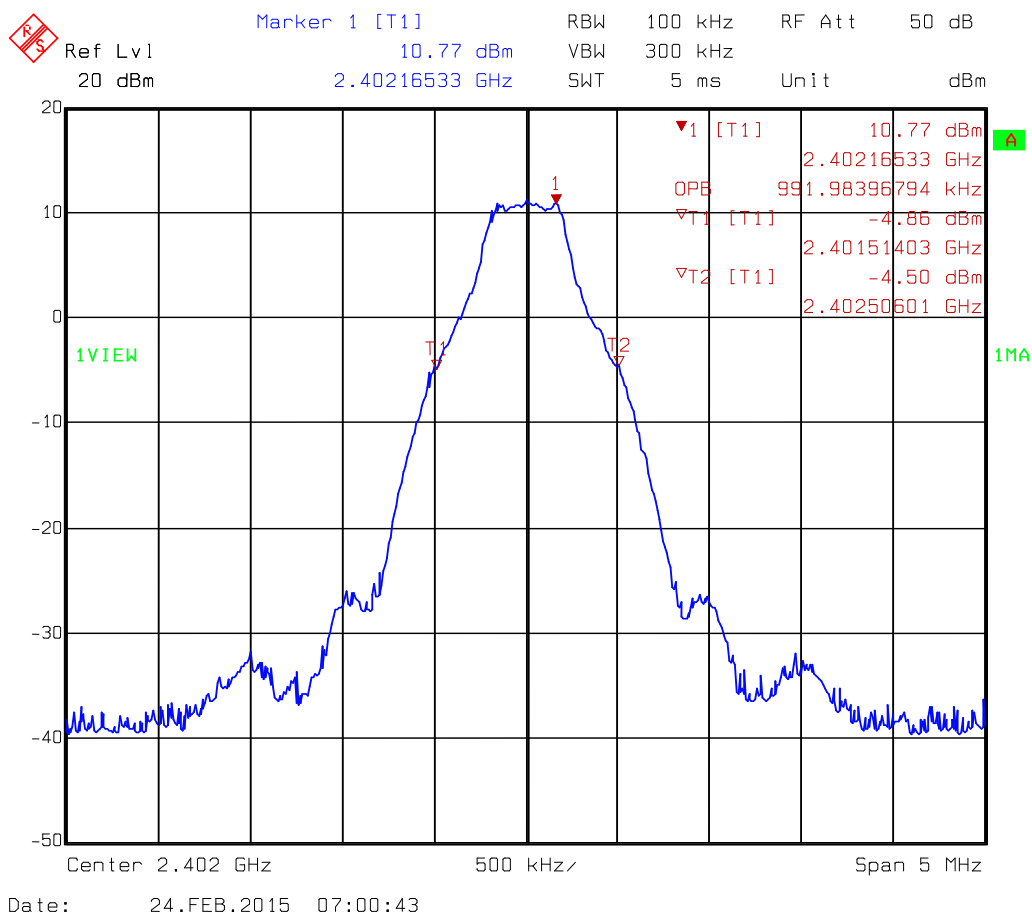
3.1 Test Conditions and Results – Occupied Bandwidth

| Occupied Bandwidth acc. to IC RSS-Gen | | Verdict: PASS | |
|--|--------------------------------|---------------|--------------------------|
| Test according to measurement reference | Reference Method | | |
| | RSS-Gen 6.6 | | |
| Test frequency range | Tested frequencies | | |
| | $F_{LOW} / F_{MID} / F_{HIGH}$ | | |
| Limits | | | |
| None (Informational only) | | | |
| Test setup | | | |
|  <pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] </pre> | | | |
| Test procedure | | | |
| <ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Resolution bandwidth set to 1 % of span 4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function | | | |
| Test results | | | |
| Channel | Frequency [MHz] | Mode | Occupied Bandwidth [kHz] |
| F_{LOW} | 2402 | DH5 | 991.984 |
| F_{MID} | 2441 | DH5 | 991.984 |
| F_{HIGH} | 2480 | DH5 | 1002.004 |
| Comments: | | | |

Occupied Bandwidth – DH5 F_{Low}
Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Burkhard Pudell
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT-BR, CH: 0, 2402 MHz, DH5
 Test Date: 2015-02-24
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW= 991.984 kHz

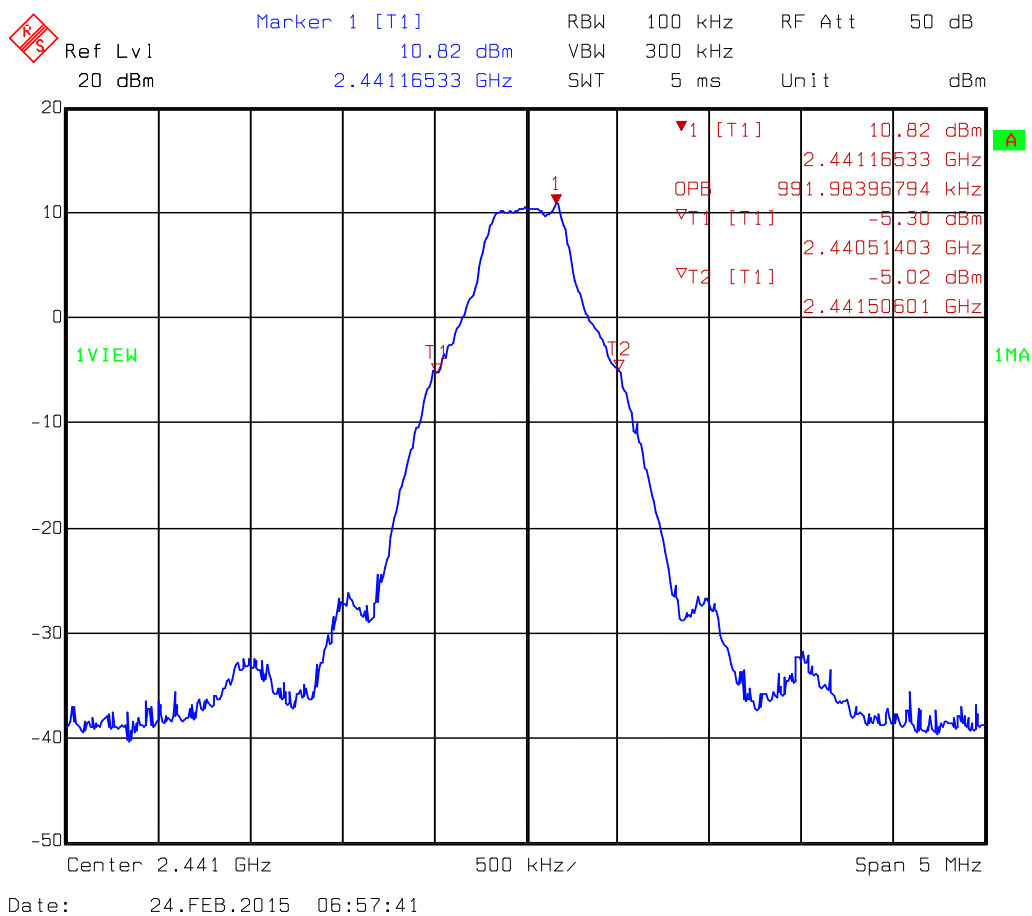


Occupied Bandwidth – DH5 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Burkhard Pudell
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT-BR, CH: 39, 2441 MHz, DH5
 Test Date: 2015-02-24
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW= 991.984 kHz

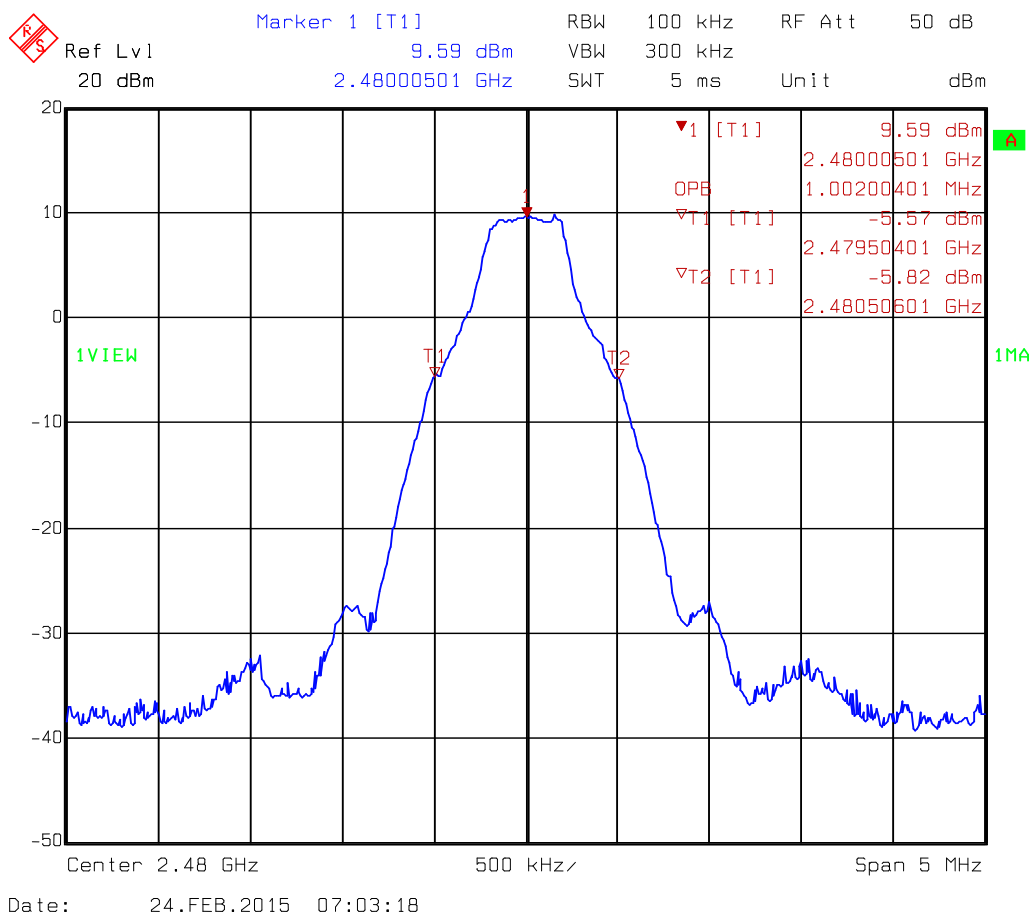


Occupied Bandwidth – DH5 F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Burkhard Pudell
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT-BR, CH: 78, 2480 MHz, DH5
 Test Date: 2015-02-24
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW= 1002.004 kHz



3.2 Test Conditions and Results – AC power line conducted emissions

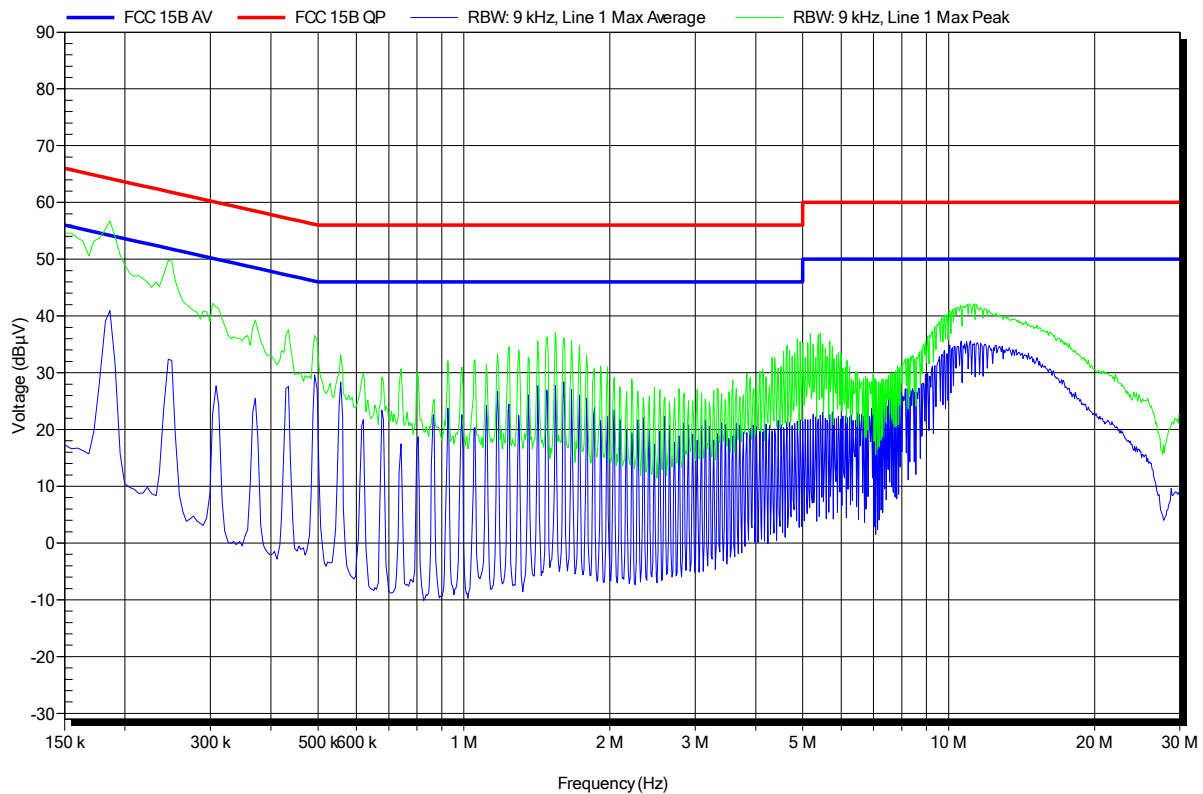
| Power line conducted emissions acc. to FCC 47 CFR 15.207 / IC RSS-Gen | | Verdict: PASS | | |
|--|-------------------------|---------------|----------------------|--------|
| Test according referenced standards | Reference Method | | | |
| | ANSI C63.4 | | | |
| Fully configured sample scanned over the following frequency range | Frequency range | | | |
| | 0.15 MHz to 30 MHz | | | |
| Points of Application | Application Interface | | | |
| AC Mains | LISN | | | |
| EUT test mode | AC-Powerline | | | |
| Limits and results | | | | |
| Frequency [MHz] | Quasi-Peak [dB μ V] | Result | Average [dB μ V] | Result |
| 0.15 to 5 | 66 to 56* | PASS | 56 to 46* | PASS |
| 0.5 to 5 | 56 | PASS | 46 | PASS |
| 5 to 30 | 60 | PASS | 50 | PASS |
| Comments: * Limit decreases linearly with the logarithm of the frequency. | | | | |

Conducted Emissions
EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1406-3914

Manufacturer: Leica Geosystems AG
 EUT Name: CTR20
 Model: 1875059
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Belz
 Test Conditions: Tnom: 23°C, Unom: internal Battery 10.8 V from CS20
 LISN: ESH2-Z5 L
 Mode: Bluetooth Link with camera
 Test Date: 2015-03-03
 Note: charging

Index 12

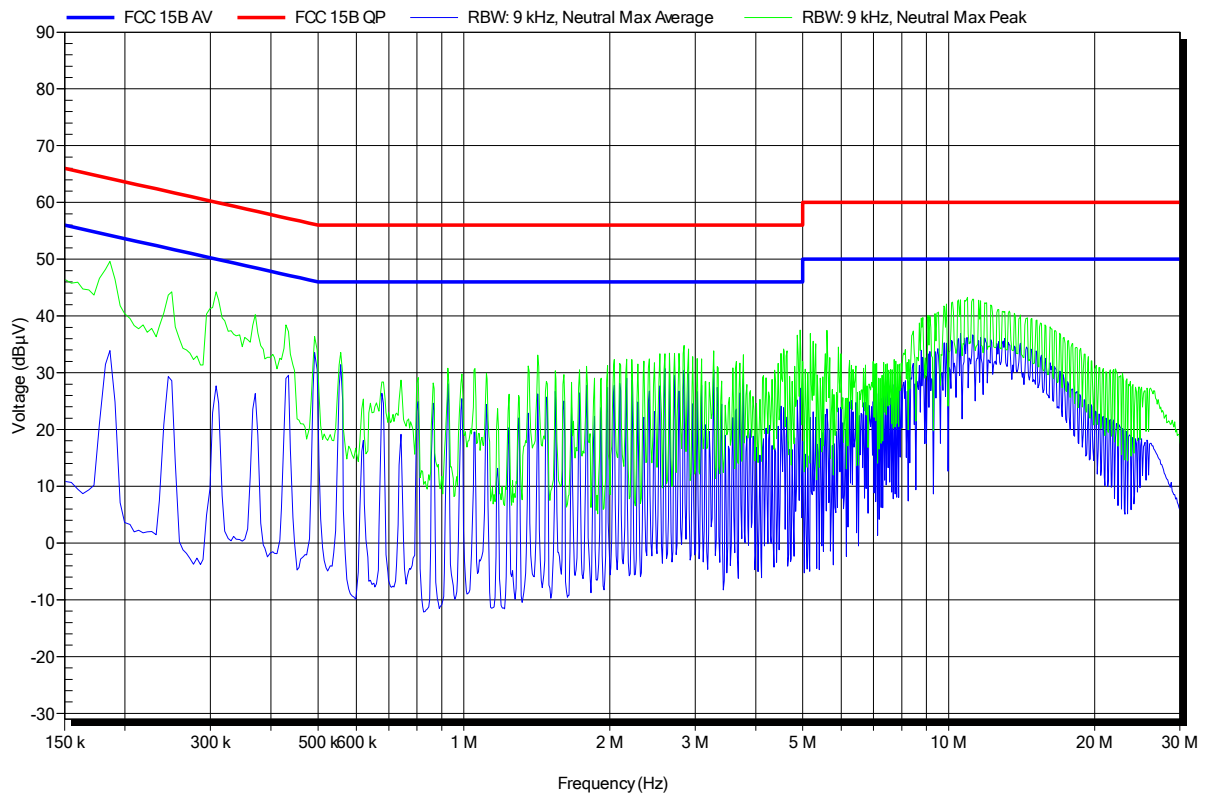


Conducted Emissions
EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1406-3914

Manufacturer: Leica Geosystems AG
 EUT Name: CTR20
 Model: 1875059
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Belz
 Test Conditions: Tnom: 23°C, Unom: internal Battery 10.8 V from CS20
 LISN: ESH2-Z5 N
 Mode: Bluetooth Link with camera
 Test Date: 2015-03-03
 Note: charging

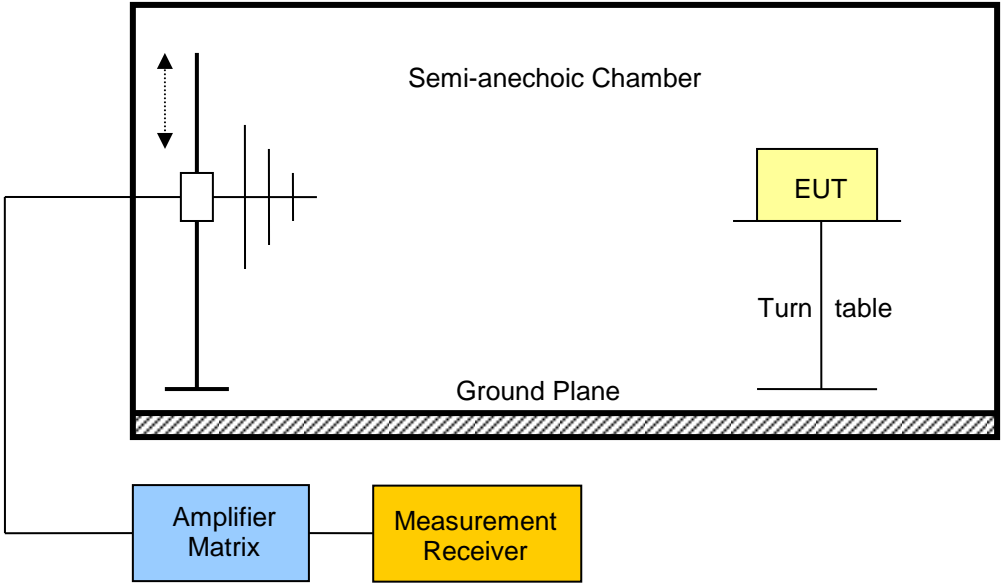
Index 11



Test Report No.: G0M-1406-3914-TFC247BT-V01

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3.3 Test Conditions and Results – Transmitter radiated emissions

| Transmitter radiated emissions acc. FCC 47 CFR 15.247 / IC RSS-210 | | | | Verdict: PASS | |
|---|--|--------------------|----------------------|--------------------|--|
| Test according referenced standards | Reference Method | | | | |
| | FCC 15.247(d) / IC RSS-210 A8.5 | | | | |
| Test according to measurement reference | Reference Method | | | | |
| | FCC Public Notice DA 00-705 / ANSI C63.4 | | | | |
| Test frequency range | Tested frequencies | | | | |
| | 30 MHz – 10 th Harmonic | | | | |
| Limits | | | | | |
| Frequency range [MHz] | Detector | Limit [μ V/m] | Limit [dB μ V/m] | Limit Distance [m] | |
| 30 – 88 | Quasi-Peak | 100 | 40 | 3 | |
| 88 – 216 | Quasi-Peak | 150 | 43.5 | 3 | |
| 216 – 960 | Quasi-Peak | 200 | 46 | 3 | |
| 960 – 1000 | Quasi-Peak | 500 | 54 | 3 | |
| > 1000 | Average | 500 | 54 | 3 | |
| <p>Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).</p> <p>When average radiated emission measurements are specified, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.</p> | | | | | |
| Test setup | | | | | |
|  | | | | | |

Test procedure

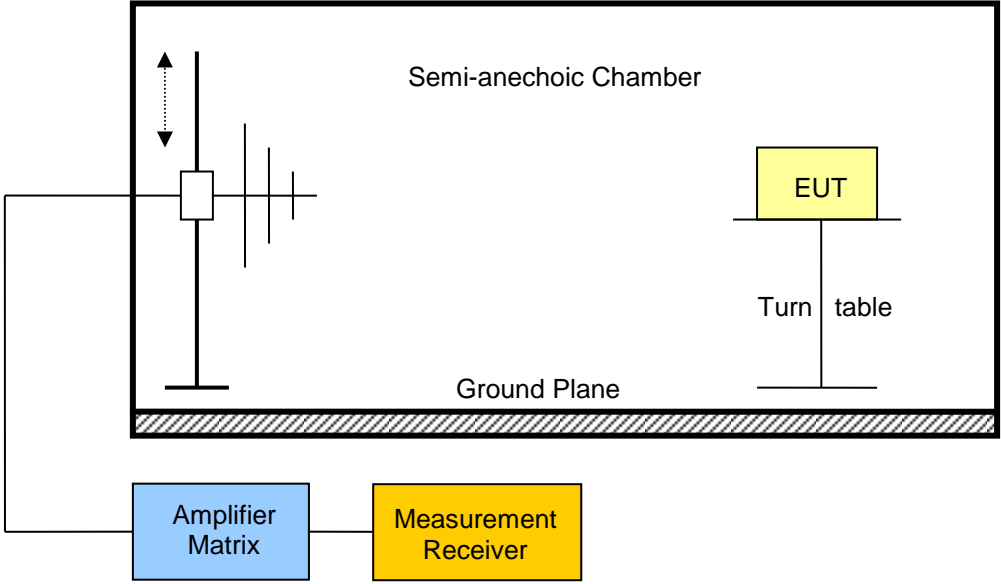
1. EUT set to test mode (Communication tester is used if needed)
2. Span it set according to measurement range
3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz
4. Markers are set to peak emission levels within restricted bands

Test results – Internal Antenna

| Channel | Frequency [MHz] | Mode | Emission [MHz] | Level [dB μ V/m] | Det. | Pol. | Limit [dB μ V/m] | Limit dist. [m]* | Margin [dB] |
|-------------------|-----------------|------|----------------|----------------------|------|------|----------------------|------------------|-------------|
| F _{LOW} | 2402 | DH5 | 2382 | 54.62 | pk | ver | 74.00 | 3 | -19.38 |
| F _{LOW} | 2402 | DH5 | 2382 | 42.44 | RMS | ver | 54.00 | 3 | -11.56 |
| F _{LOW} | 2402 | DH5 | 2389 | 55.47 | pk | ver | 74.00 | 3 | -18.53 |
| F _{LOW} | 2402 | DH5 | 2389 | 46.88 | RMS | ver | 54.00 | 3 | -07.12 |
| F _{HIGH} | 2480 | DH5 | 2483.5 | 59.51 | pk | ver | 74.00 | 3 | -14.49 |
| F _{HIGH} | 2480 | DH5 | 2483.5 | 51.06 | RMS | ver | 54.00 | 3 | -02.94 |
| F _{HIGH} | 2480 | DH5 | 2483.5 | 53.82 | pk | hor | 74.00 | 3 | -20.18 |
| F _{HIGH} | 2480 | DH5 | 2483.5 | 45.34 | RMS | hor | 54.00 | 3 | -08.66 |
| F _{HIGH} | 2480 | DH5 | 2486.6 | 56.99 | pk | ver | 74.00 | 3 | -17.01 |
| F _{HIGH} | 2480 | DH5 | 2486.6 | 42.56 | RMS | ver | 54.00 | 3 | -11.44 |
| F _{HIGH} | 2480 | DH5 | 2492.8 | 53.49 | pk | ver | 74.00 | 3 | -20.51 |
| F _{HIGH} | 2480 | DH5 | 2492.8 | 43.38 | RMS | ver | 54.00 | 3 | -10.62 |

Comments: * Physical distance between EUT and measurement antenna.

3.4 Test Conditions and Results – Receiver radiated emissions

| Receiver radiated emissions acc. to IC RSS-210 | | | | Verdict: PASS |
|--|-----------------------------------|--------------------|----------------------|--------------------|
| Test according referenced standards | Reference Method | | | |
| | IC RSS-210 A8.5 | | | |
| Test according to measurement reference | Reference Method | | | |
| | ANSI C63.4 | | | |
| Test frequency range | Tested frequencies | | | |
| | 30 MHz – 3 th Harmonic | | | |
| EUT test mode | Receive | | | |
| Limits | | | | |
| Frequency range [MHz] | Detector | Limit [μ V/m] | Limit [dB μ V/m] | Limit Distance [m] |
| 30 – 88 | Quasi-Peak | 100 | 40 | 3 |
| 88 – 216 | Quasi-Peak | 150 | 43.5 | 3 |
| 216 – 960 | Quasi-Peak | 200 | 46 | 3 |
| 960 – 1000 | Quasi-Peak | 500 | 54 | 3 |
| > 1000 | Average | 500 | 54 | 3 |
| Test setup | | | | |
|  | | | | |

| Test procedure | | | | | | | |
|--|-----------------|----------------|-------------------------------|--------------|------|----------------------|-----------------------|
| <ol style="list-style-type: none"> 1. EUT set to receive mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz 4. Markers are set to peak emission levels | | | | | | | |
| Test results | | | | | | | |
| Channel | Frequency [MHz] | Emission [MHz] | Emission Level [dB μ V/m] | Polarisation | Det. | Limit [dB μ V/m] | Margin [dB μ V/m] |
| F _{Hopping} | Receive | 352 | 36.06 | hor | pk | 46.00 | -9.94 dB |
| F _{Hopping} | Receive | 416 | 32.67 | ver | pk | 46.00 | -13.33 dB |
| F _{Hopping} | Receive | 478.4 | 33.34 | hor | pk | 46.00 | -12.66 dB |
| F _{Hopping} | Receive | 480 | 33.84 | ver | pk | 46.00 | -12.16 dB |
| Comments: * Physical distance between EUT and measurement antenna. ** Emission level corresponds to ambient noise floor | | | | | | | |

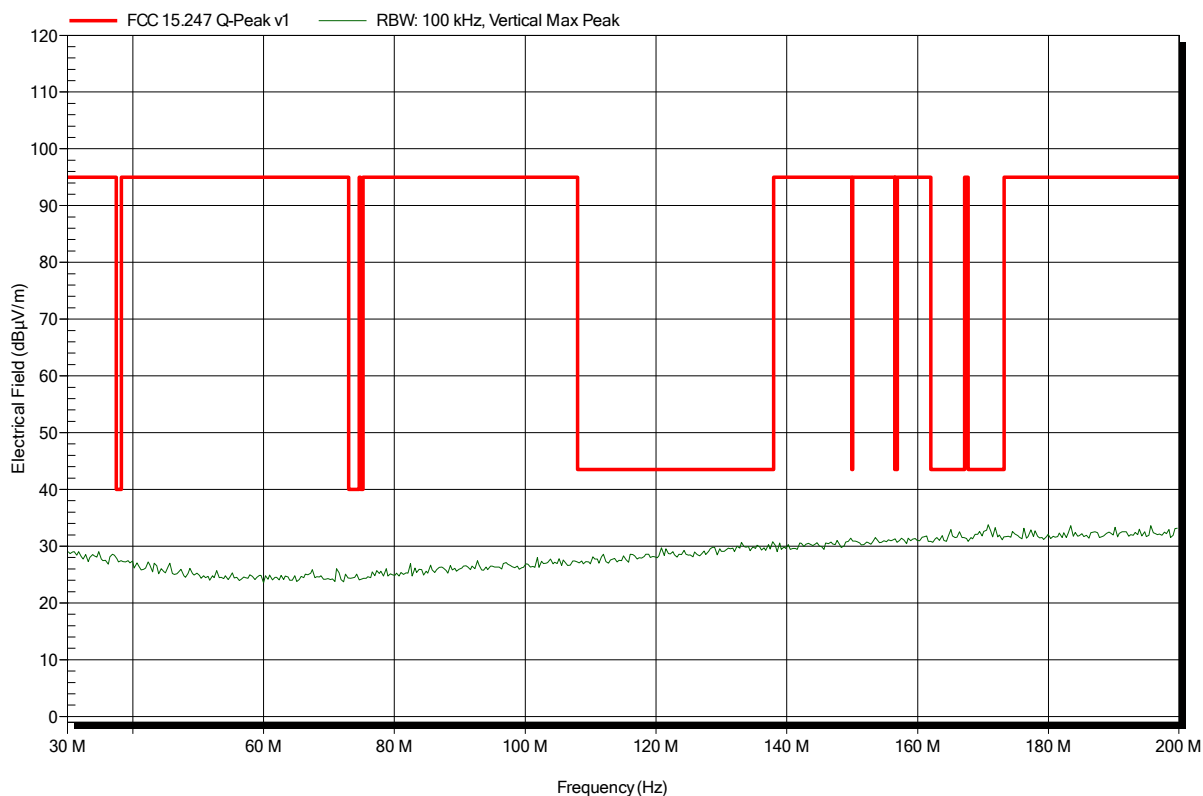
ANNEX A Transmitter radiated spurious emissions

Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HK 116, Vertical |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 205

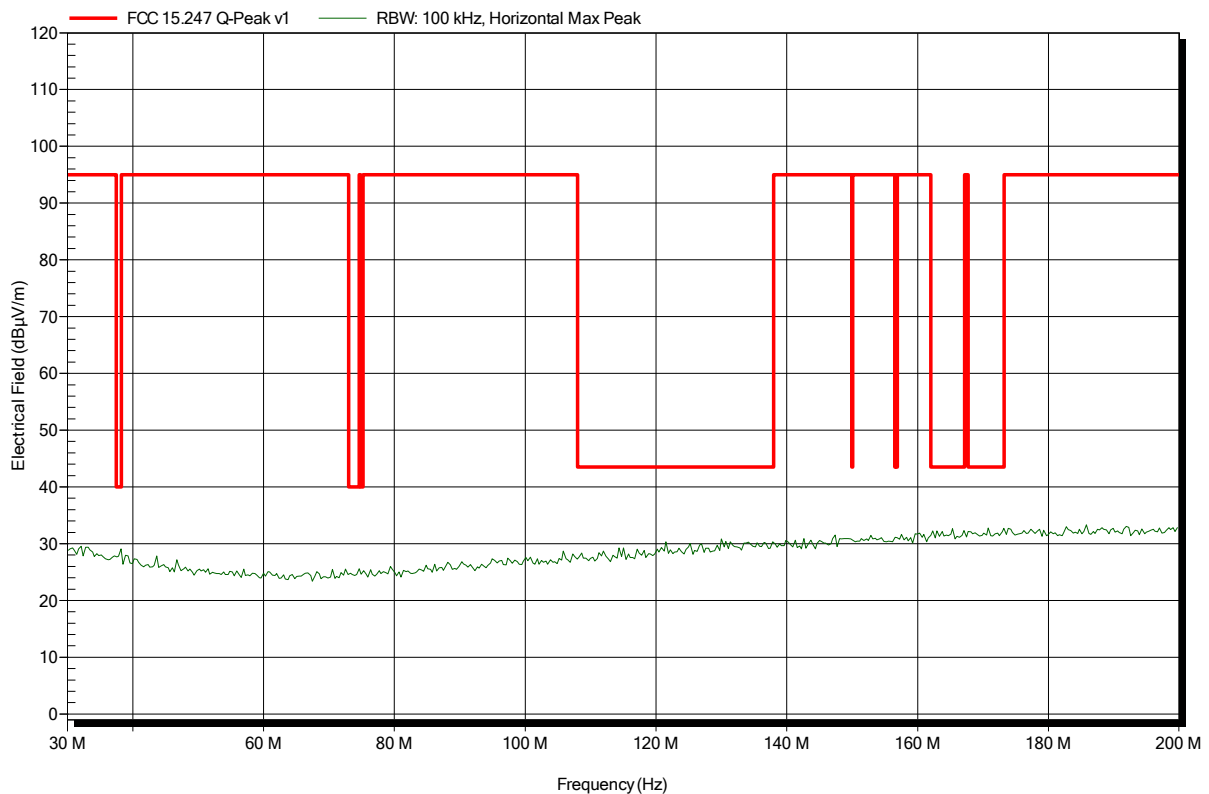


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HK 116, Horizontal |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 208

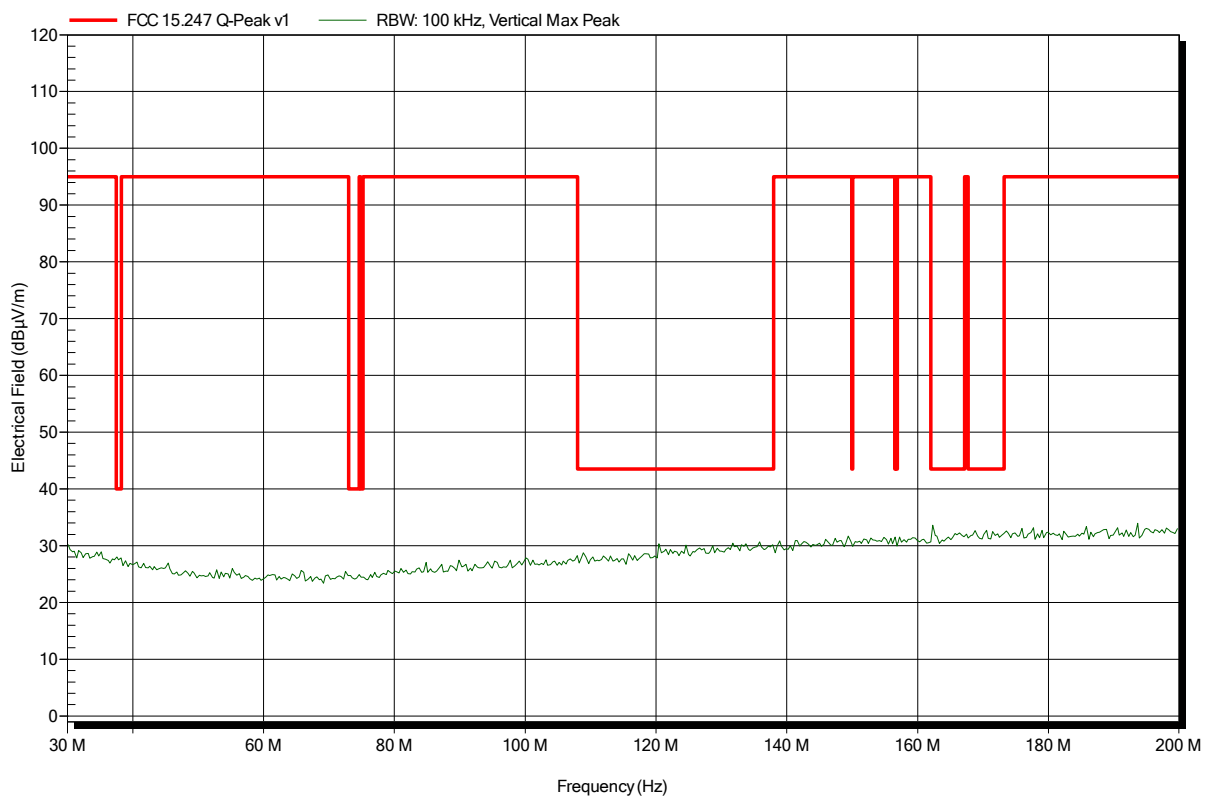


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HK 116, Vertical |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 206

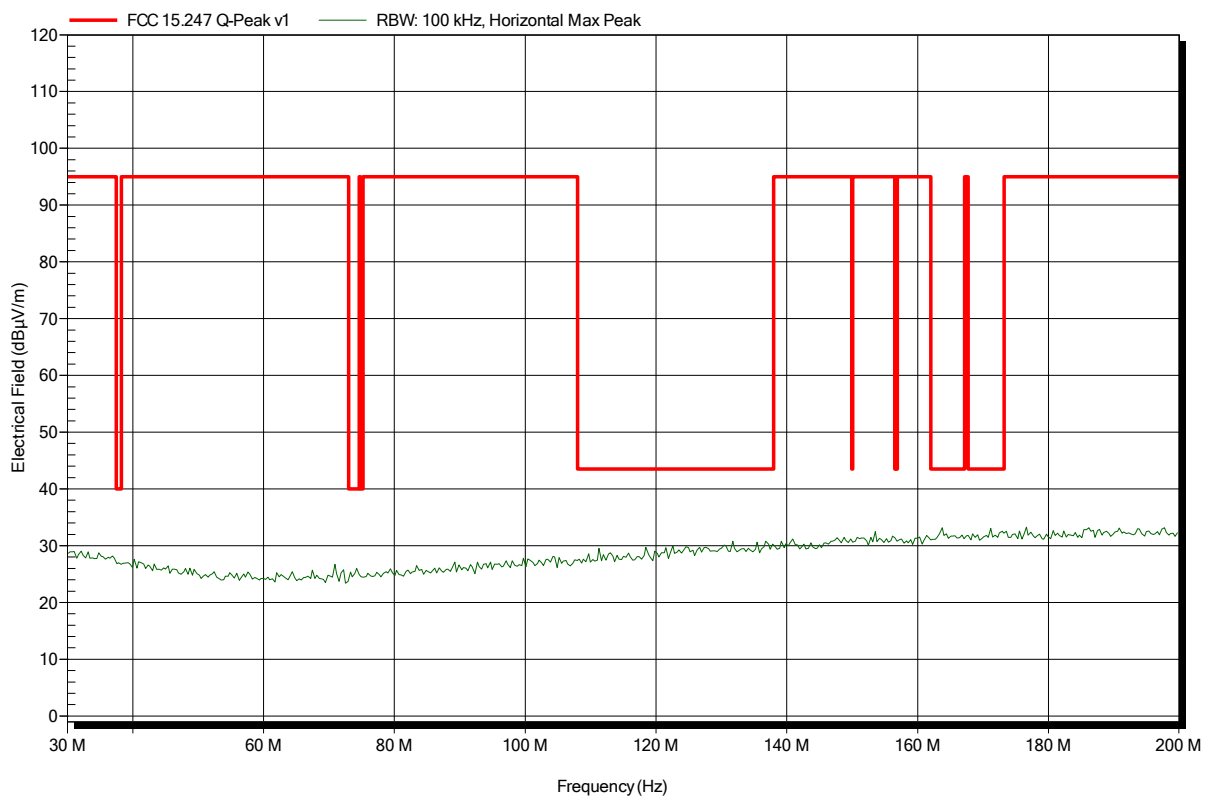


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HK 116, Horizontal |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 209

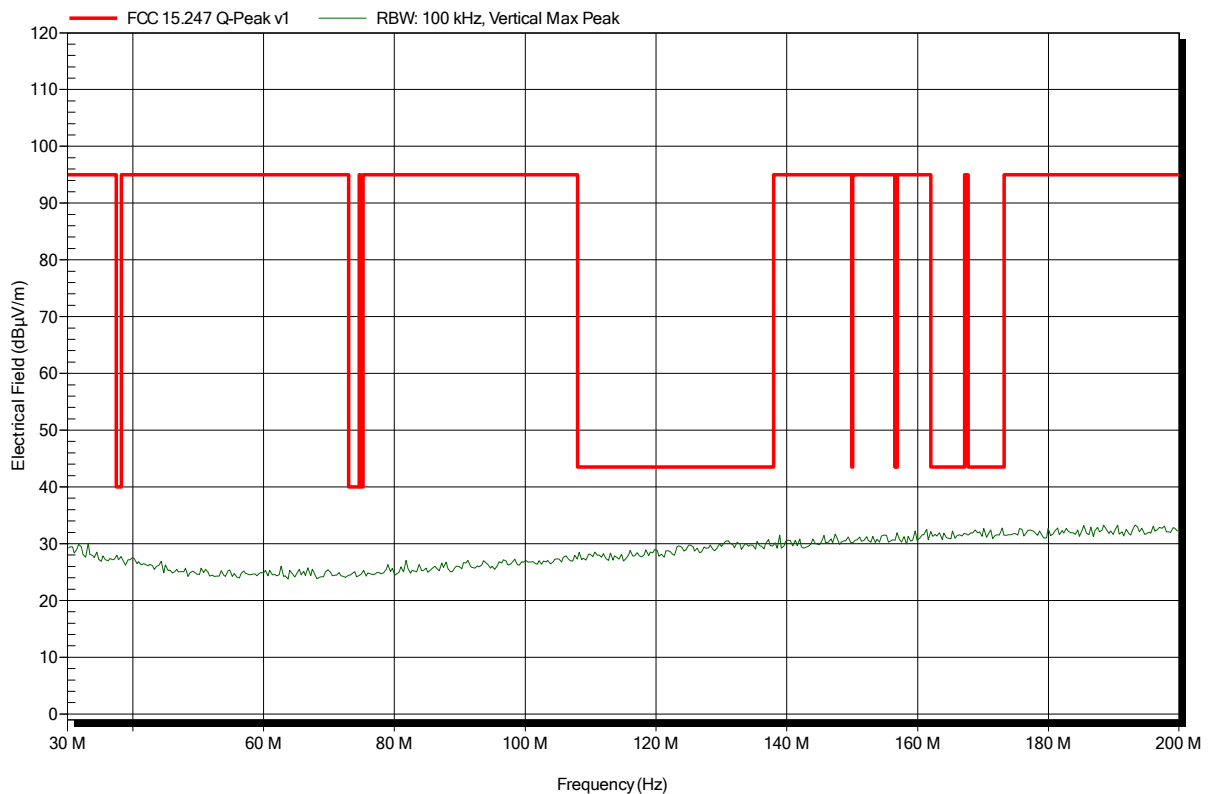


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HK 116, Vertical |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 207

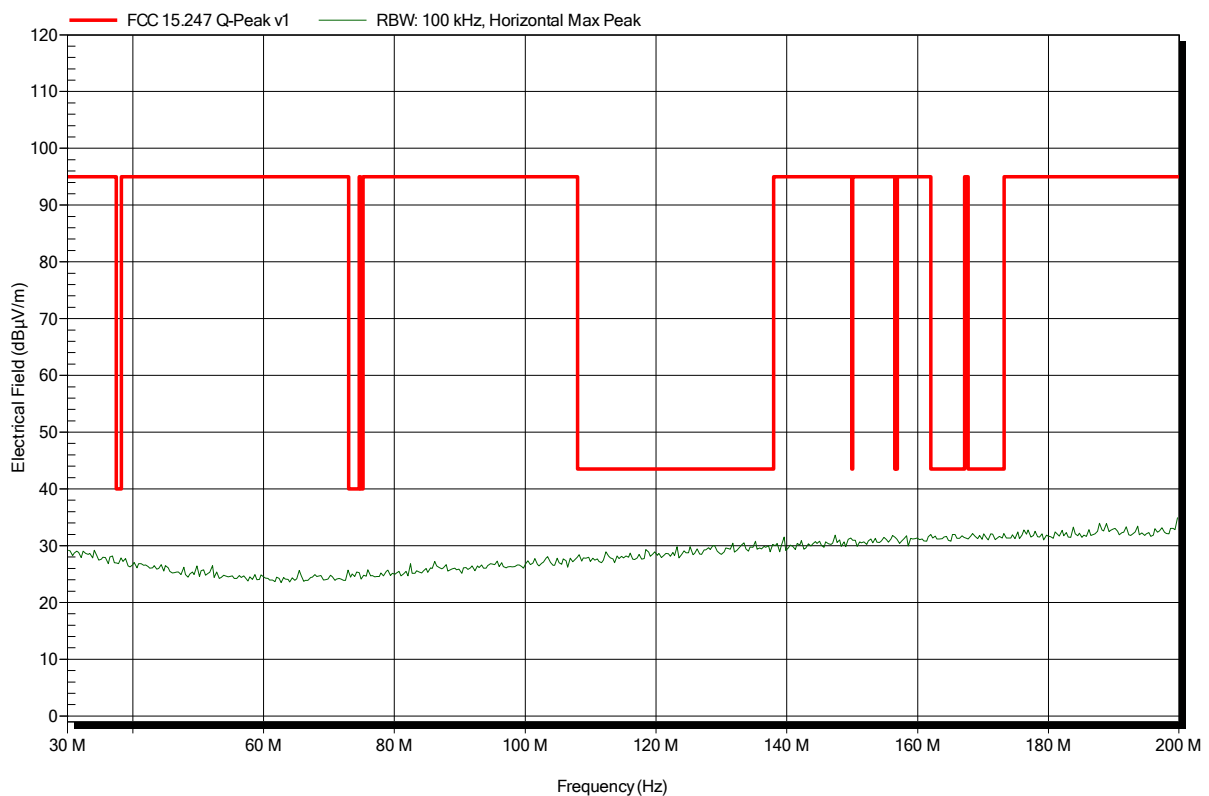


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HK 116, Horizontal |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 210

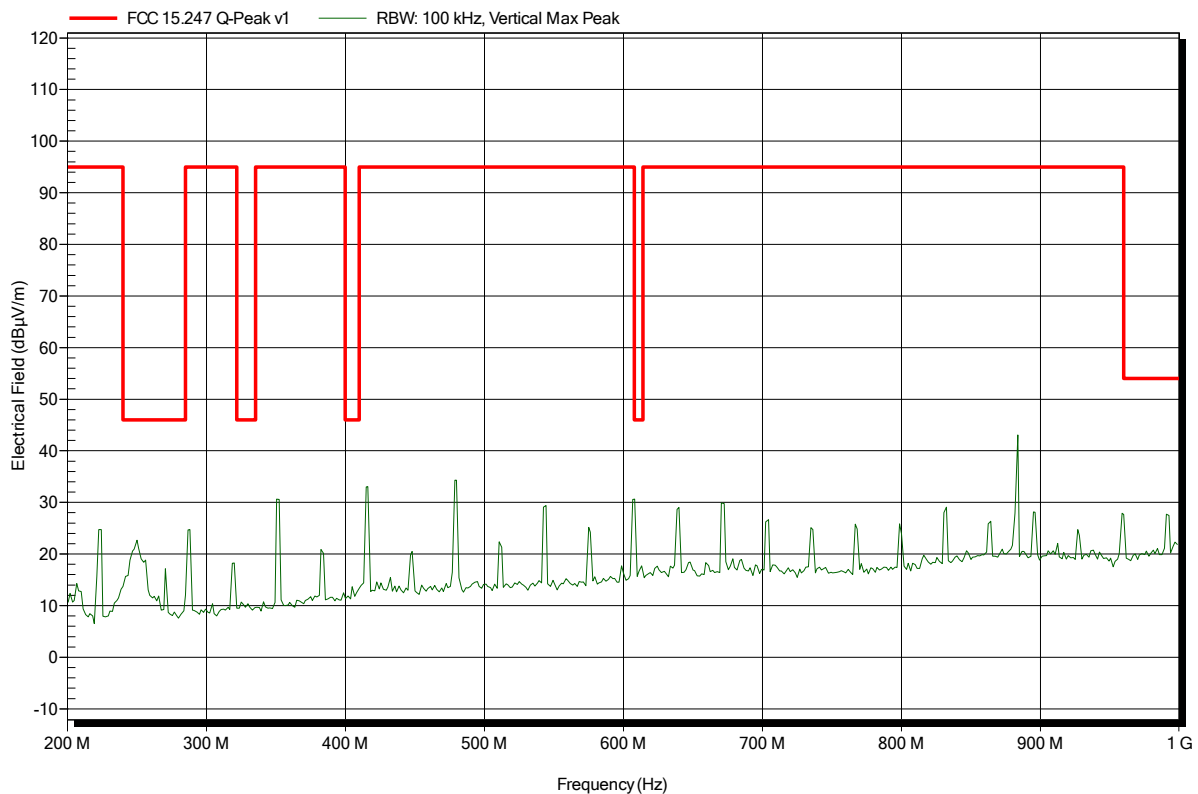


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 223, Vertical |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 199

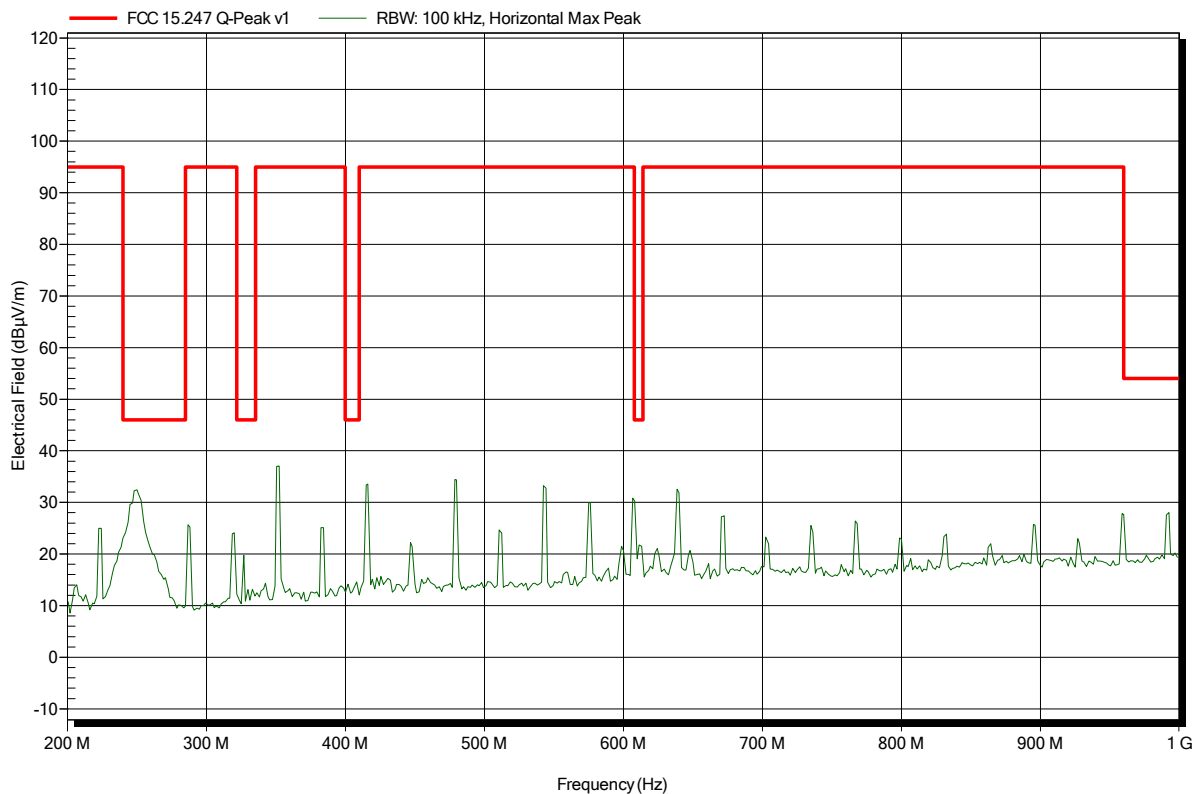


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 223, Horizontal |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 202

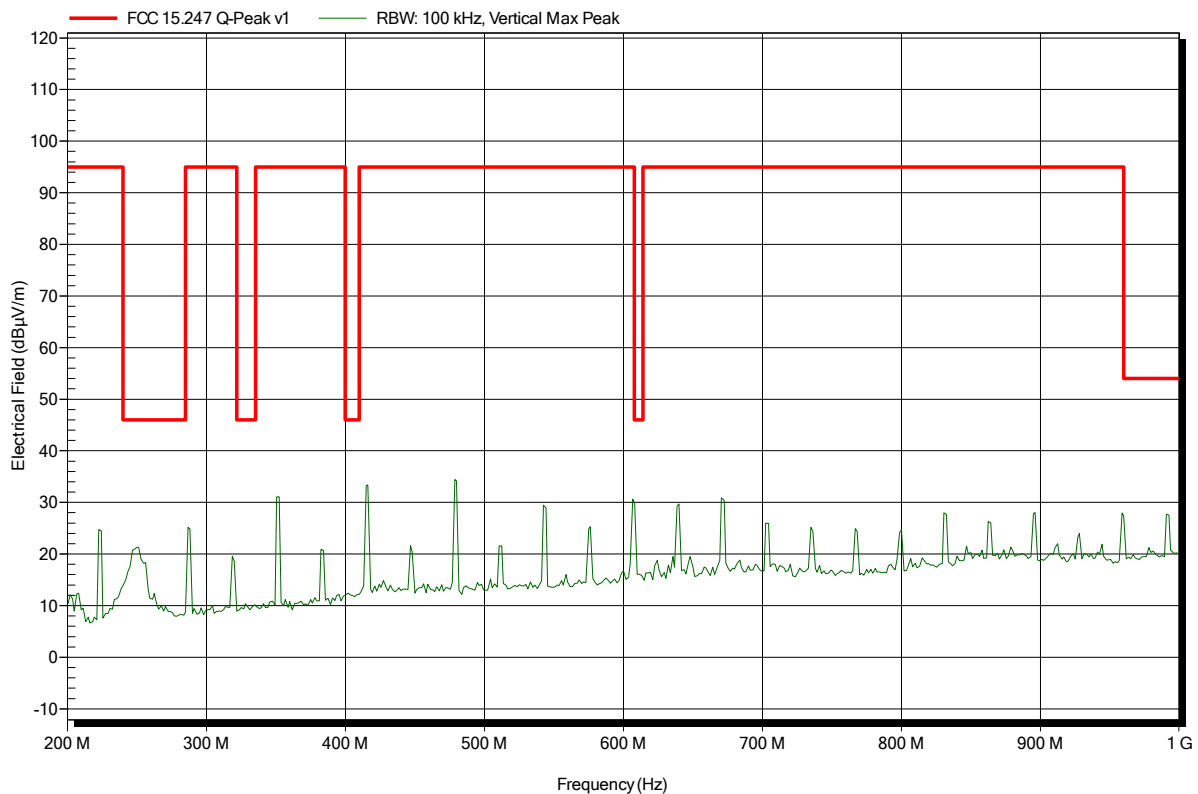


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 223, Vertical |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 200

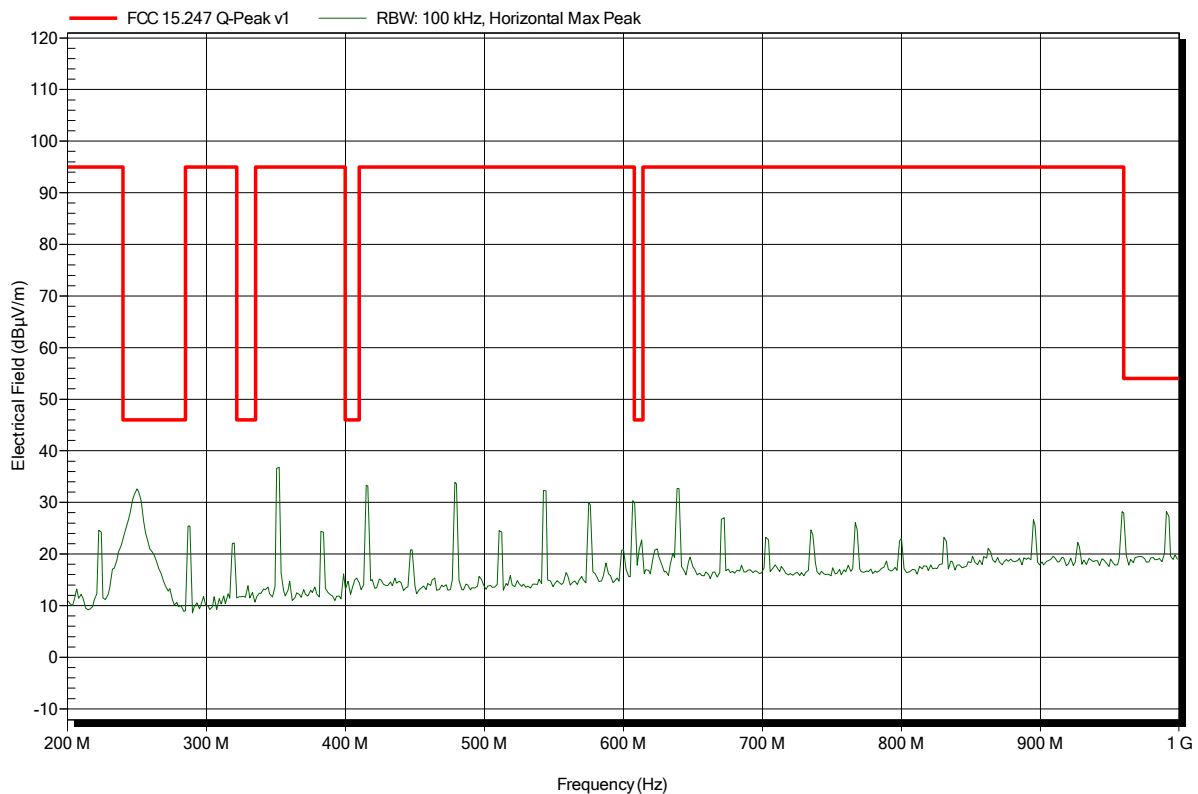


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 223, Horizontal |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 203

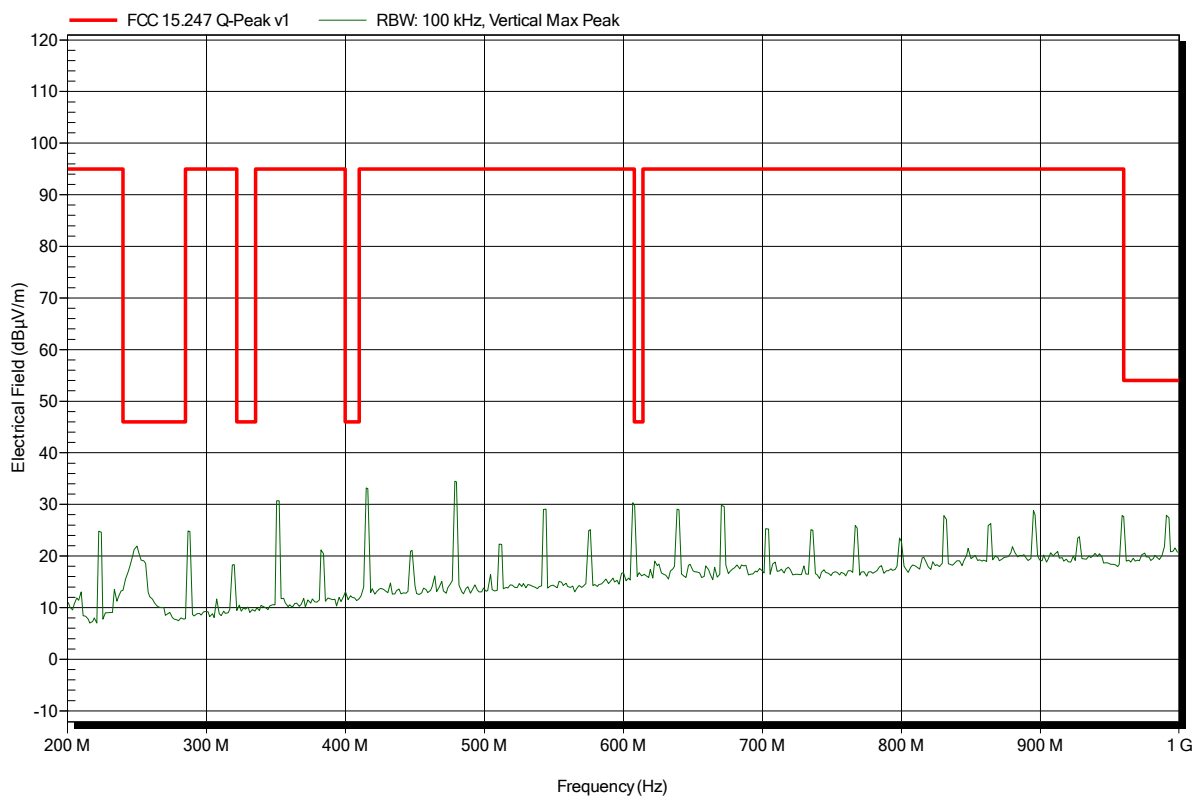


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 223, Vertical |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 201

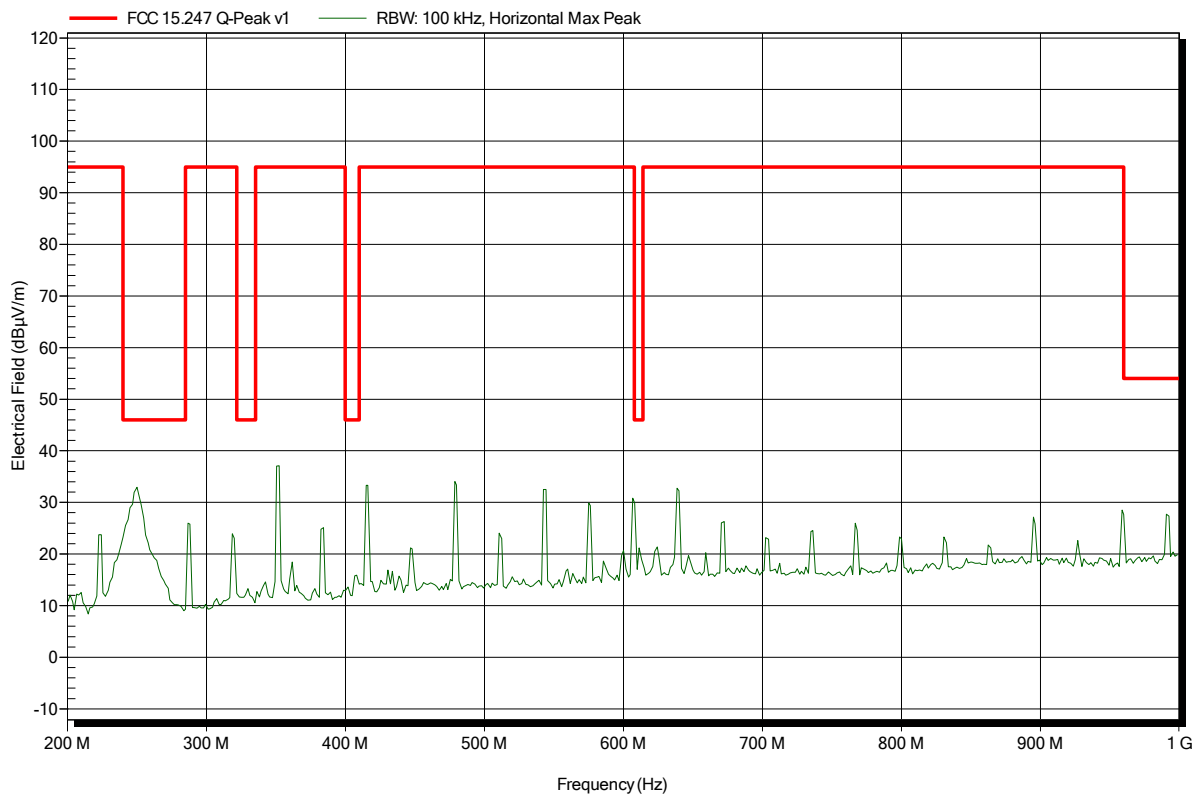


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 223, Horizontal |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 204

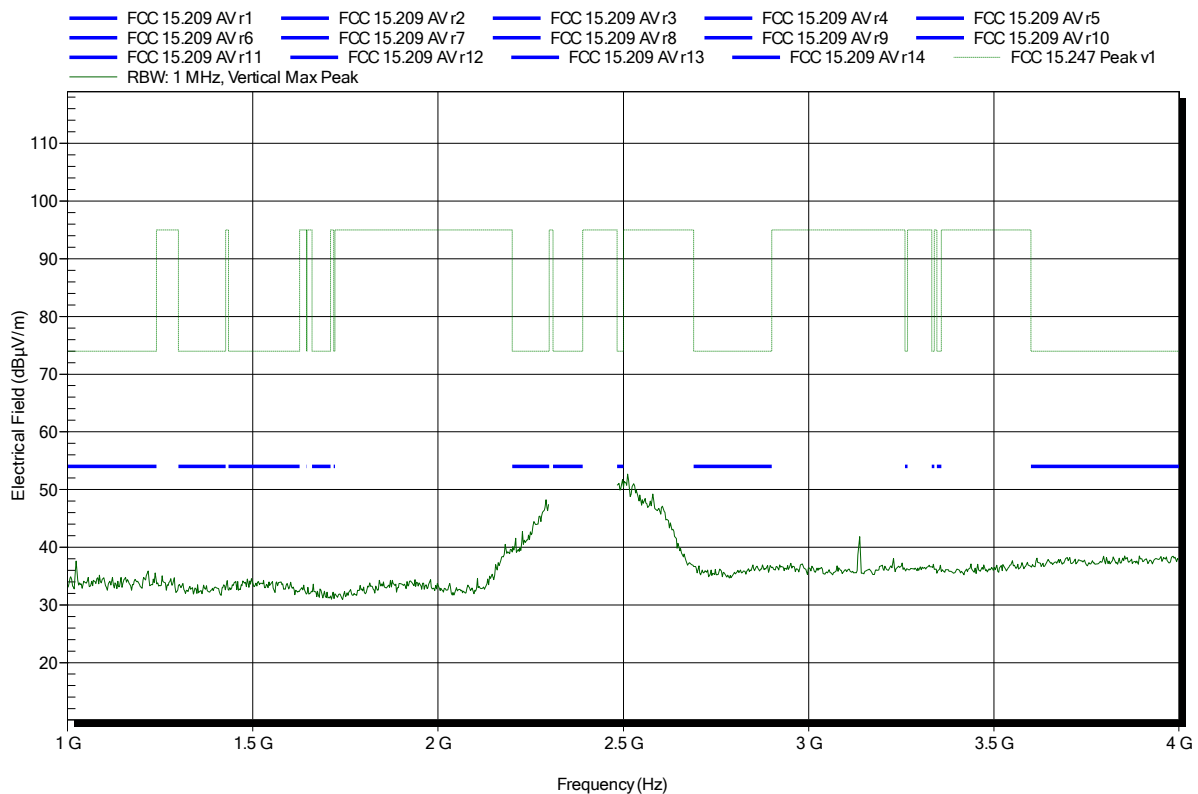


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 163



Test Report No.: G0M-1406-3914-TFC247BT-V01

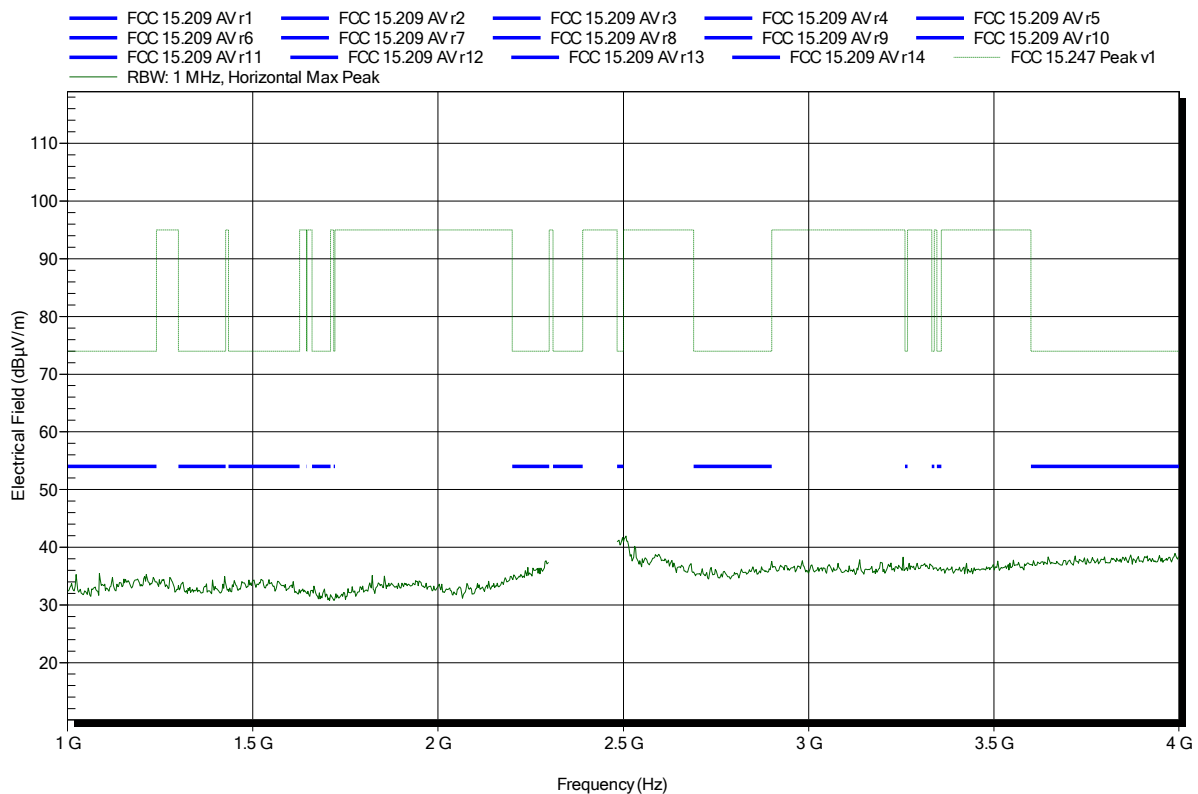
 Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: GOM-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 175



Test Report No.: GOM-1406-3914-TFC247BT-V01

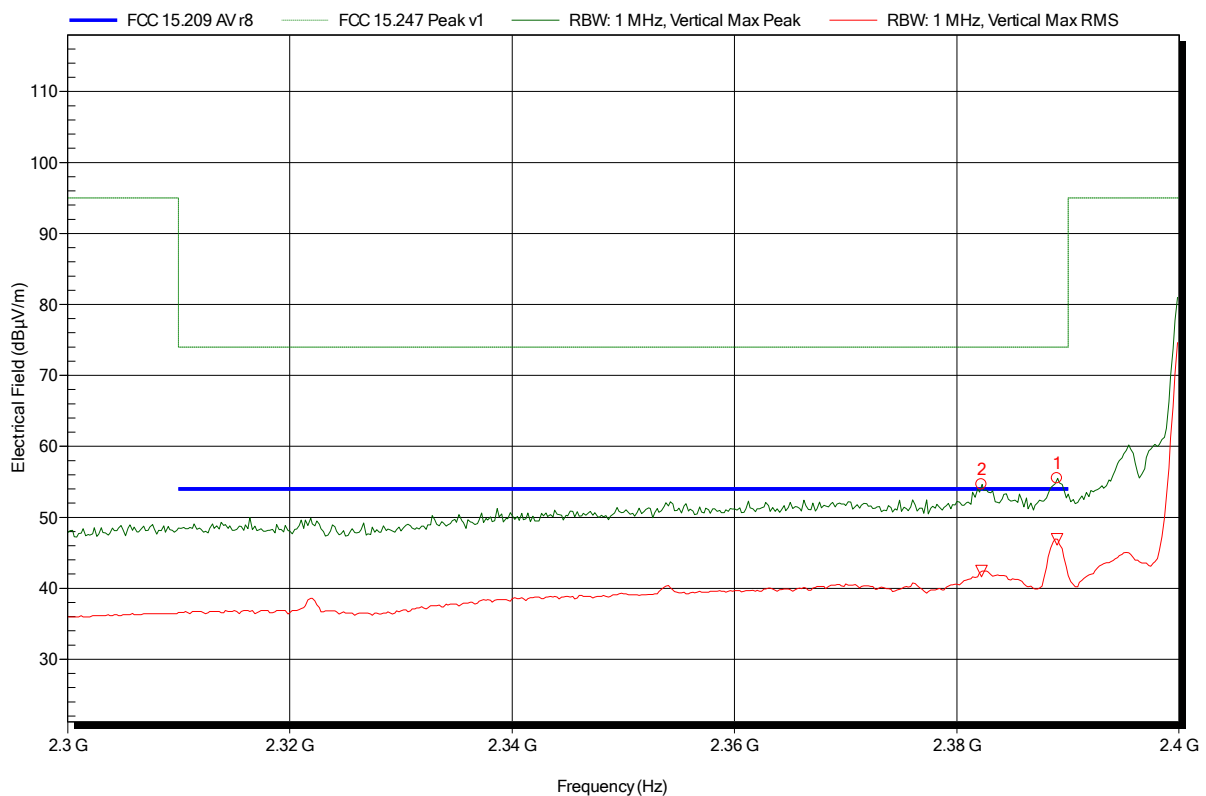
 Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical; lower bandedge

Index 164



| Frequency | Peak | Peak Limit | Peak Difference | Peak Status |
|-----------|--------------|------------|-----------------|-------------|
| 2.382 GHz | 54.62 dBµV/m | 74 dBµV/m | -19.38 dB | Pass |
| 2.389 GHz | 55.47 dBµV/m | 74 dBµV/m | -18.53 dB | Pass |

| Frequency | RMS | RMS Limit | RMS Difference | RMS Status |
|-----------|--------------|-----------|----------------|------------|
| 2.382 GHz | 42.44 dBµV/m | 54 dBµV/m | -11.56 dB | Pass |
| 2.389 GHz | 46.88 dBµV/m | 54 dBµV/m | -7.12 dB | Pass |

Test Report No.: G0M-1406-3914-TFC247BT-V01

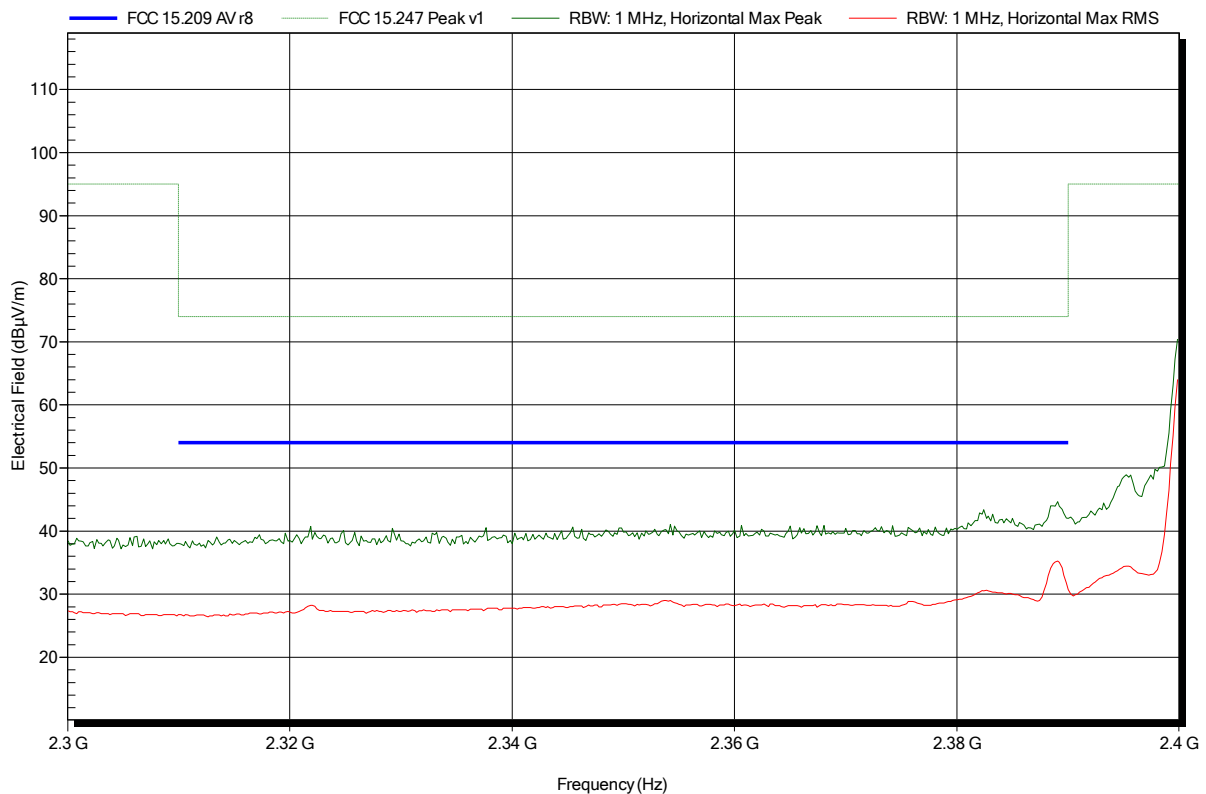
 Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical; lower bandedge |

Index 176

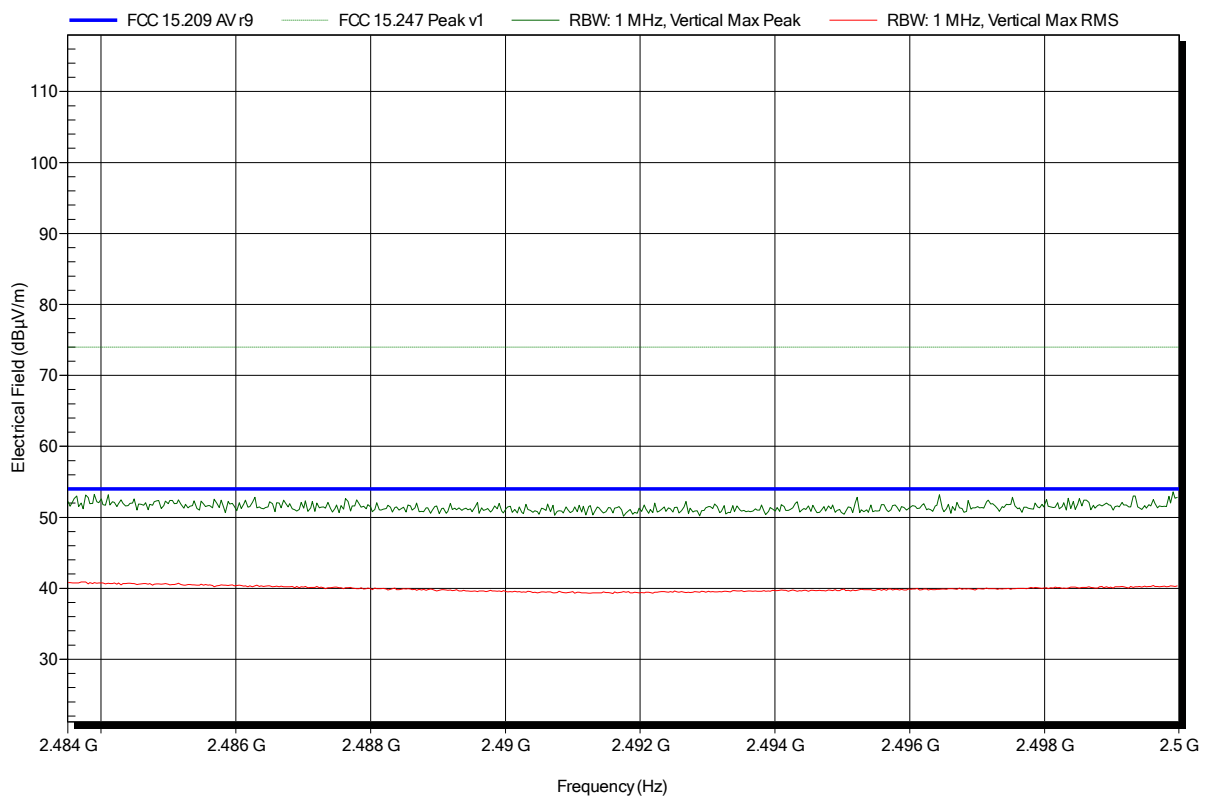


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical; upper bandedge |

Index 165

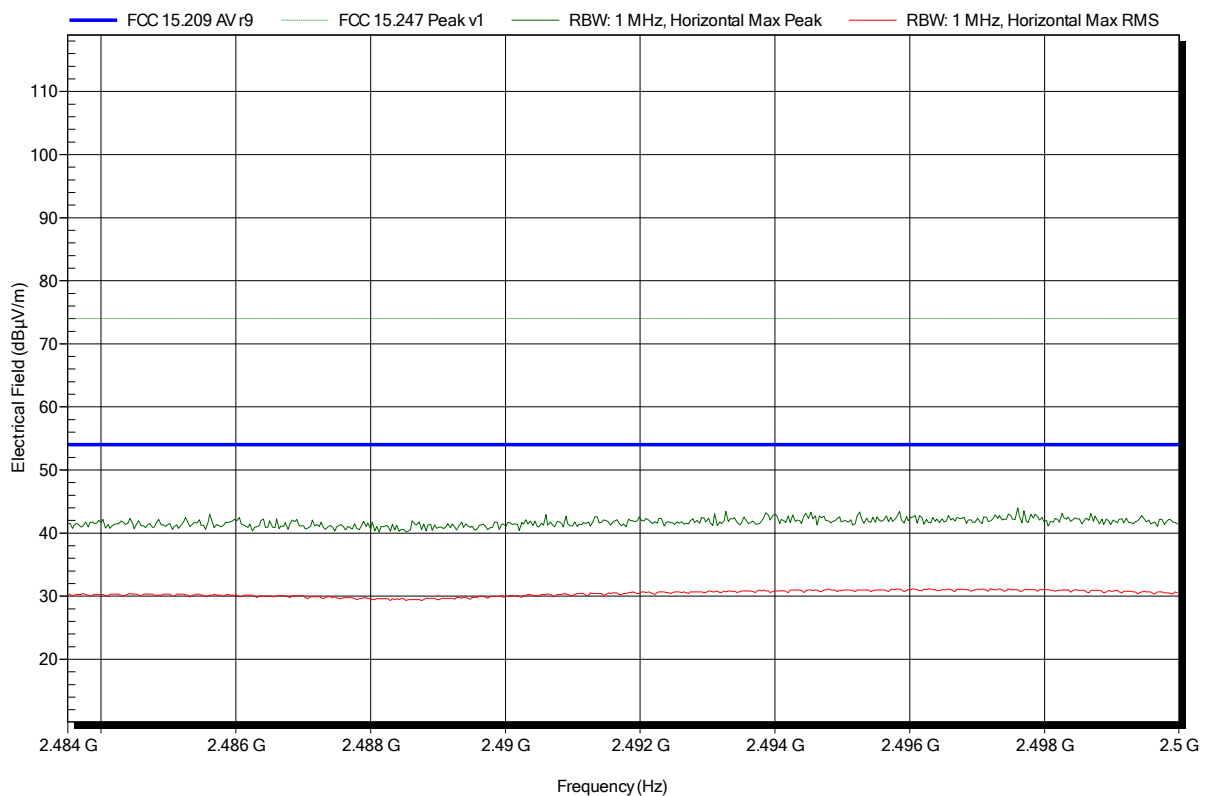


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical; upper bandedge |

Index 177

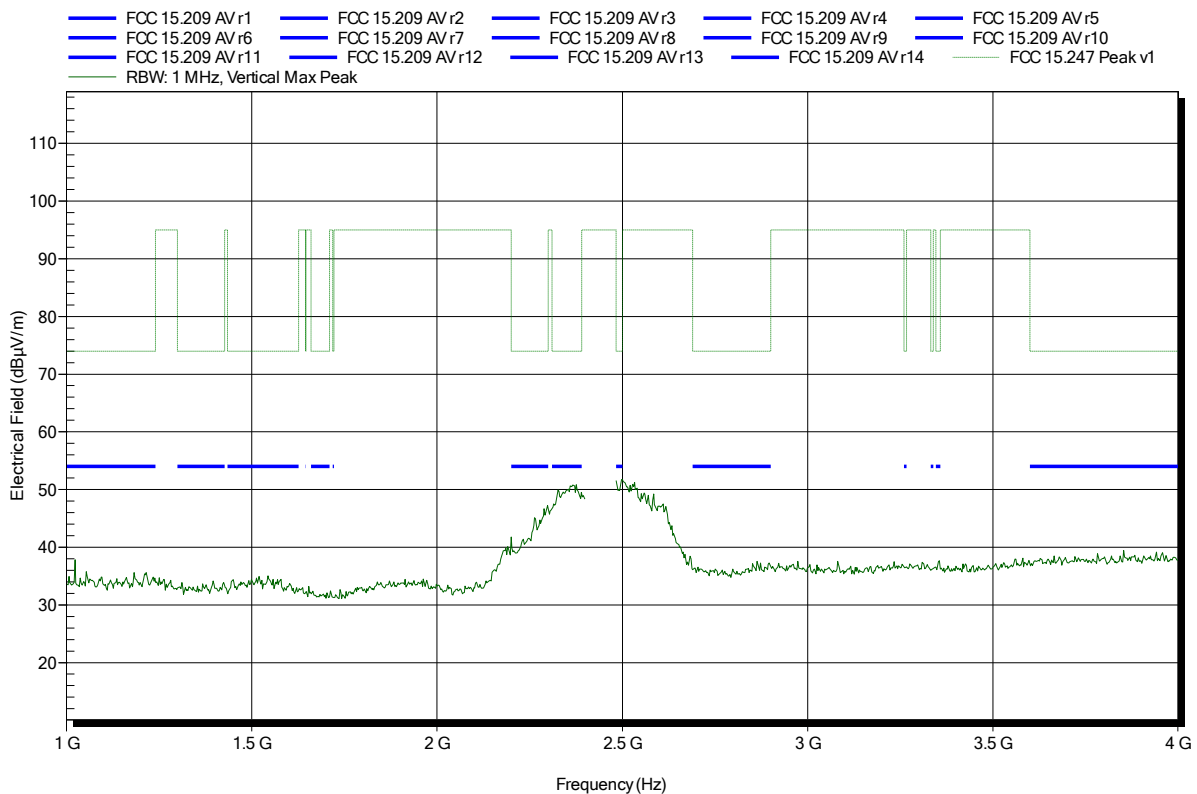


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 167

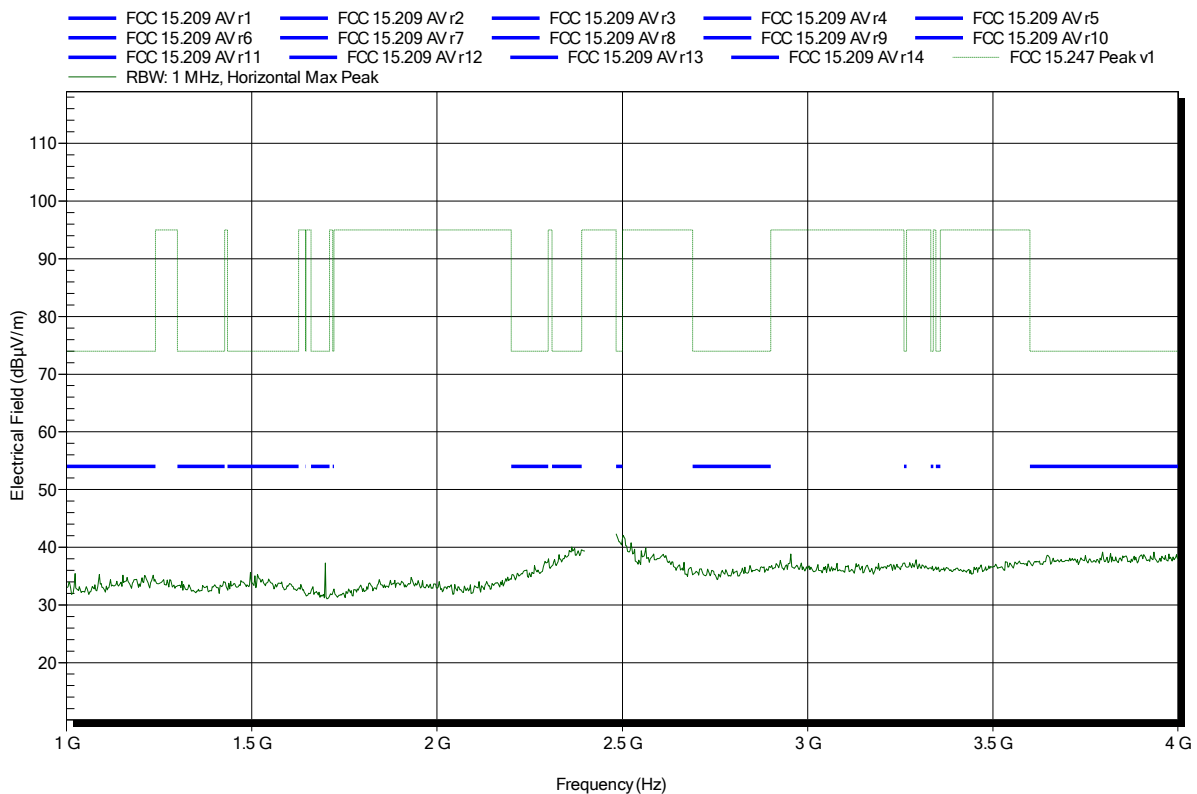


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: GOM-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 179

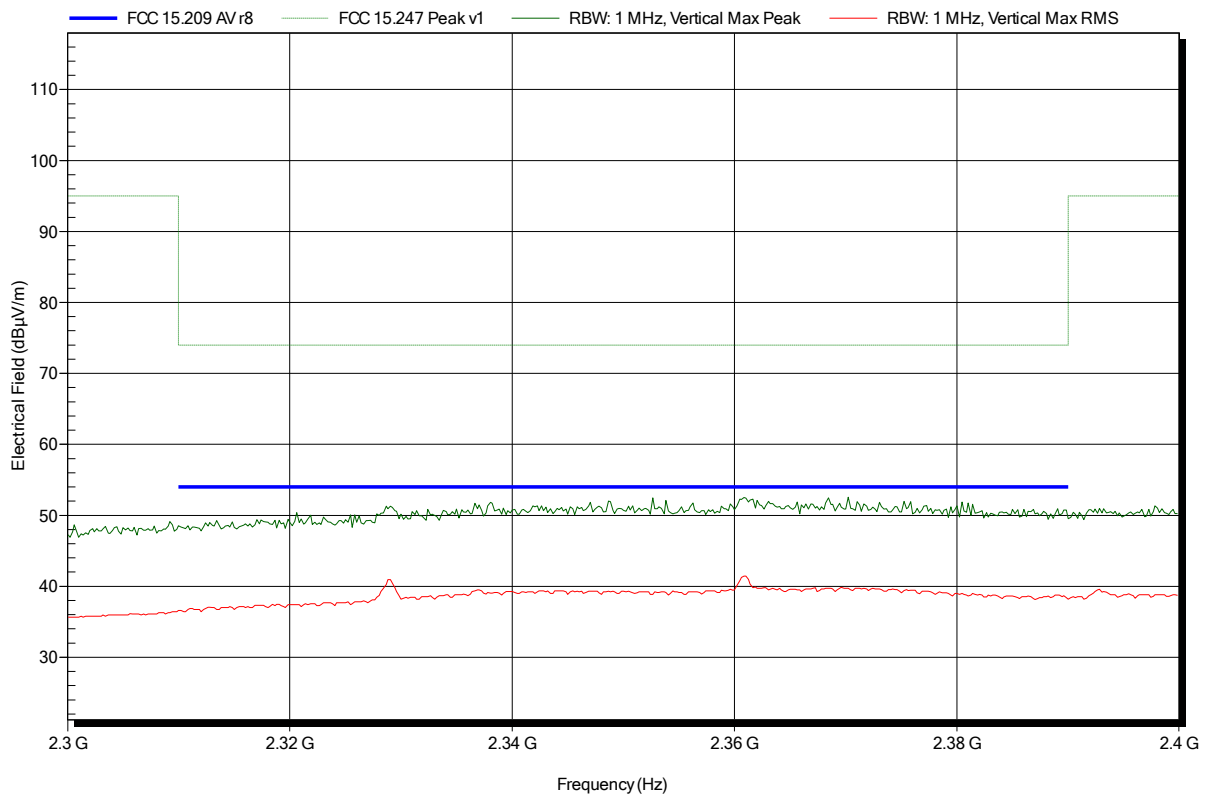


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical; lower bandedge |

Index 168

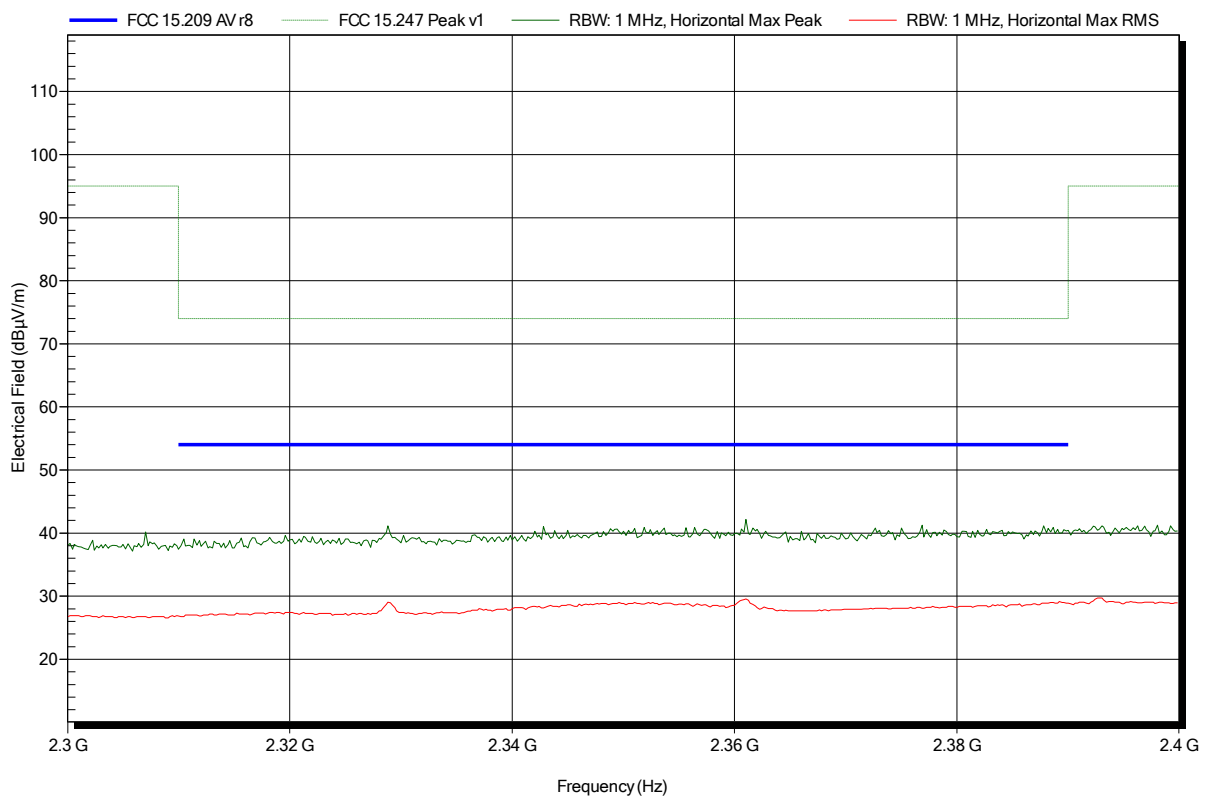


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical; lower bandedge |

Index 180

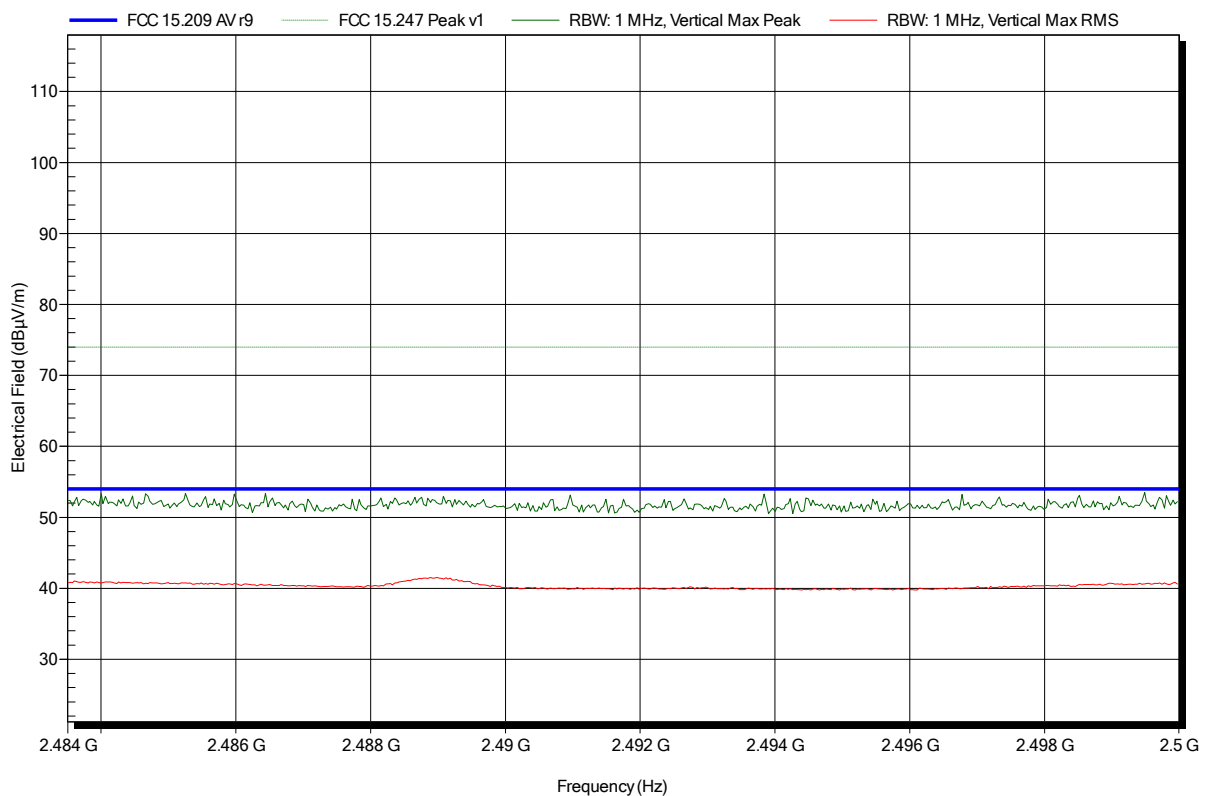


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical; upper bandedge |

Index 169

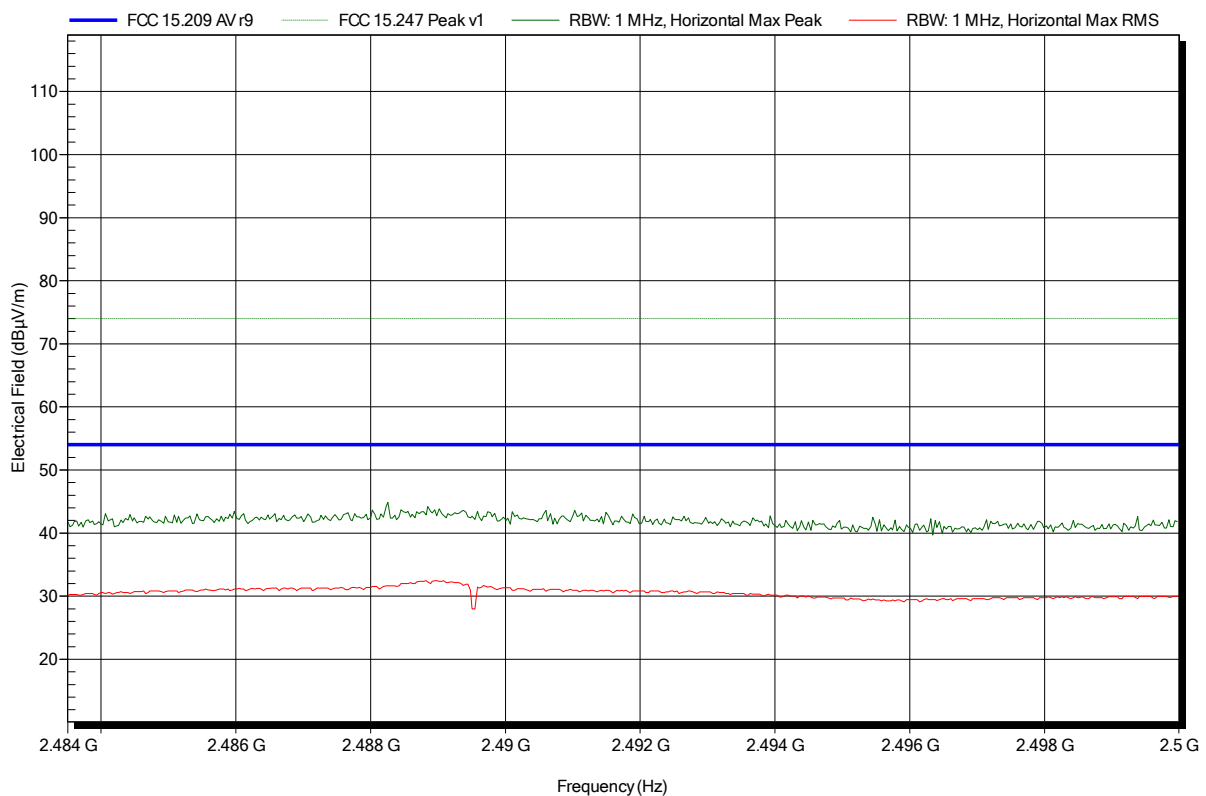


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical; upper bandedge |

Index 181

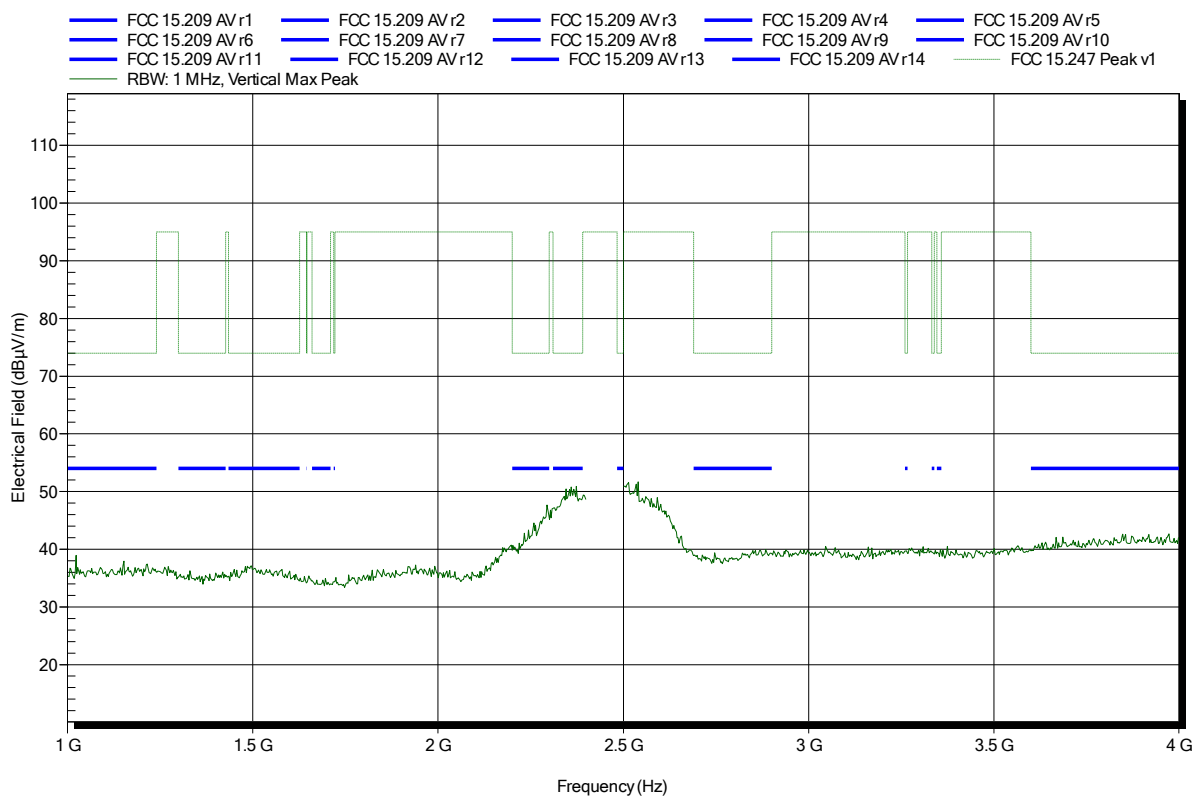


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 171

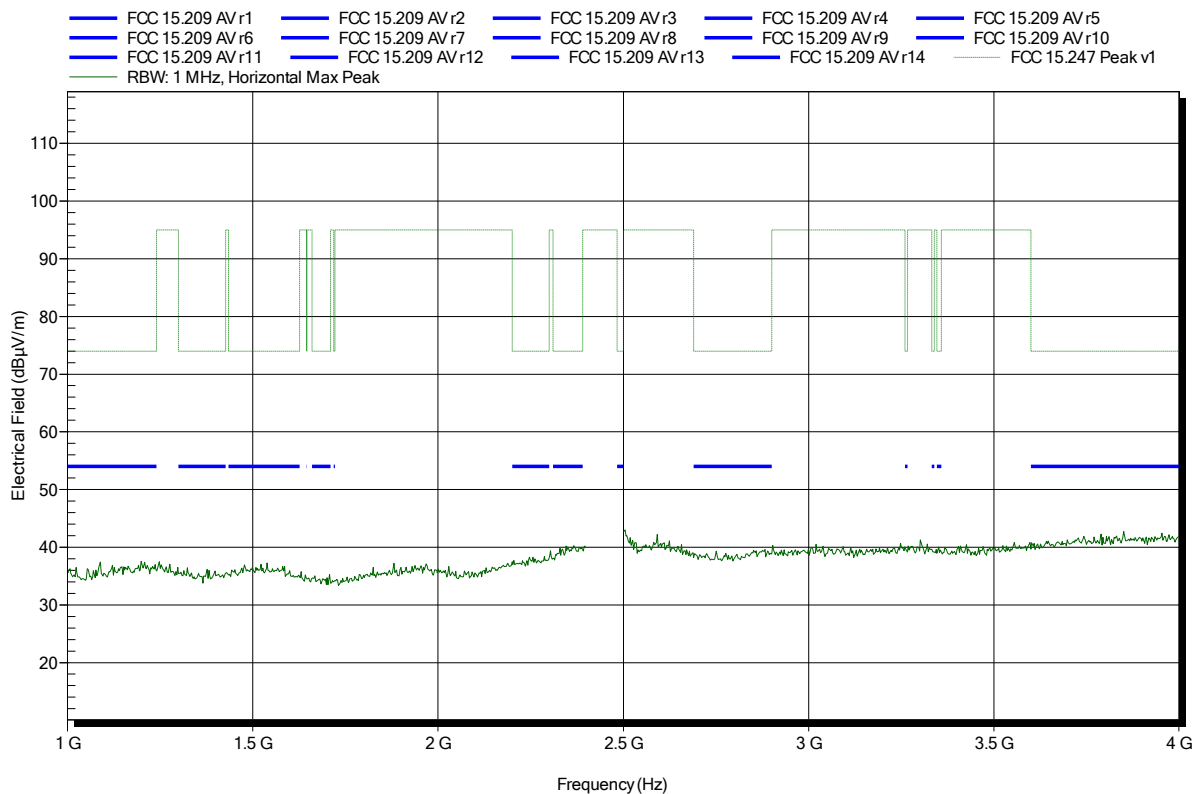


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: GOM-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 183

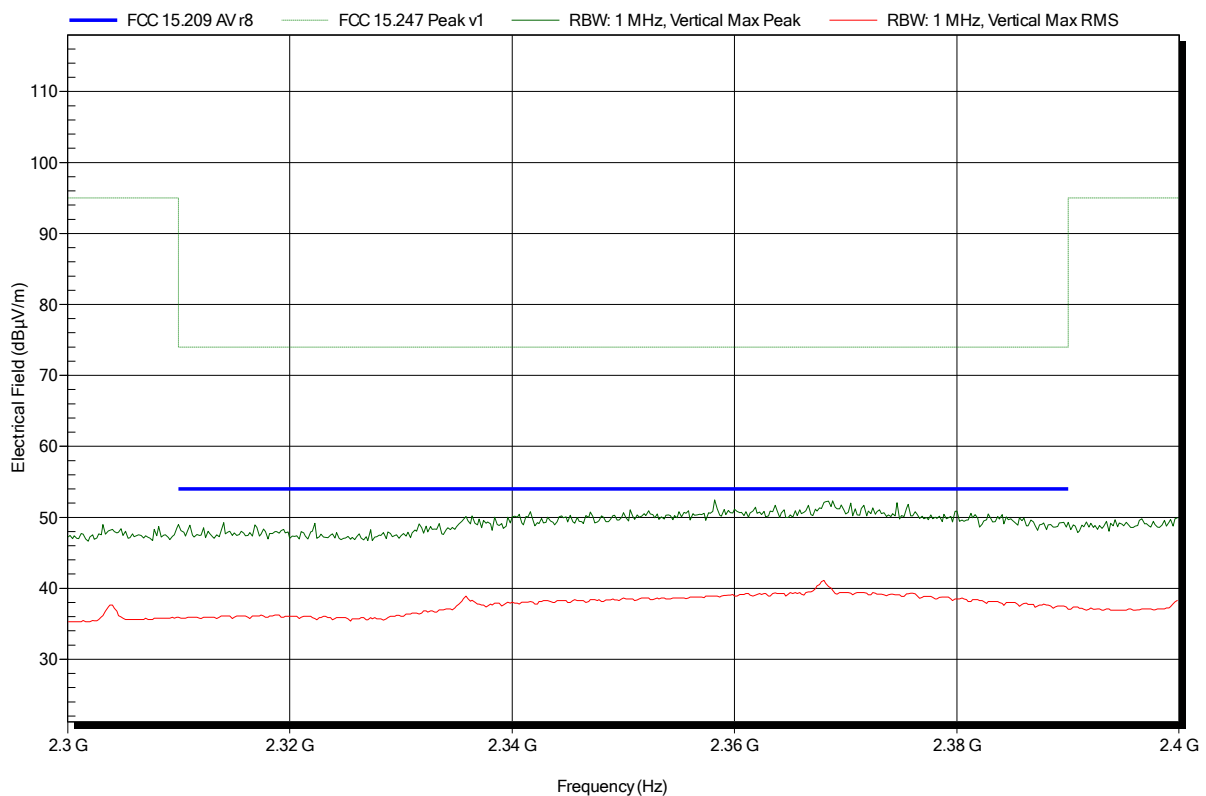


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical; lower bandedge |

Index 172

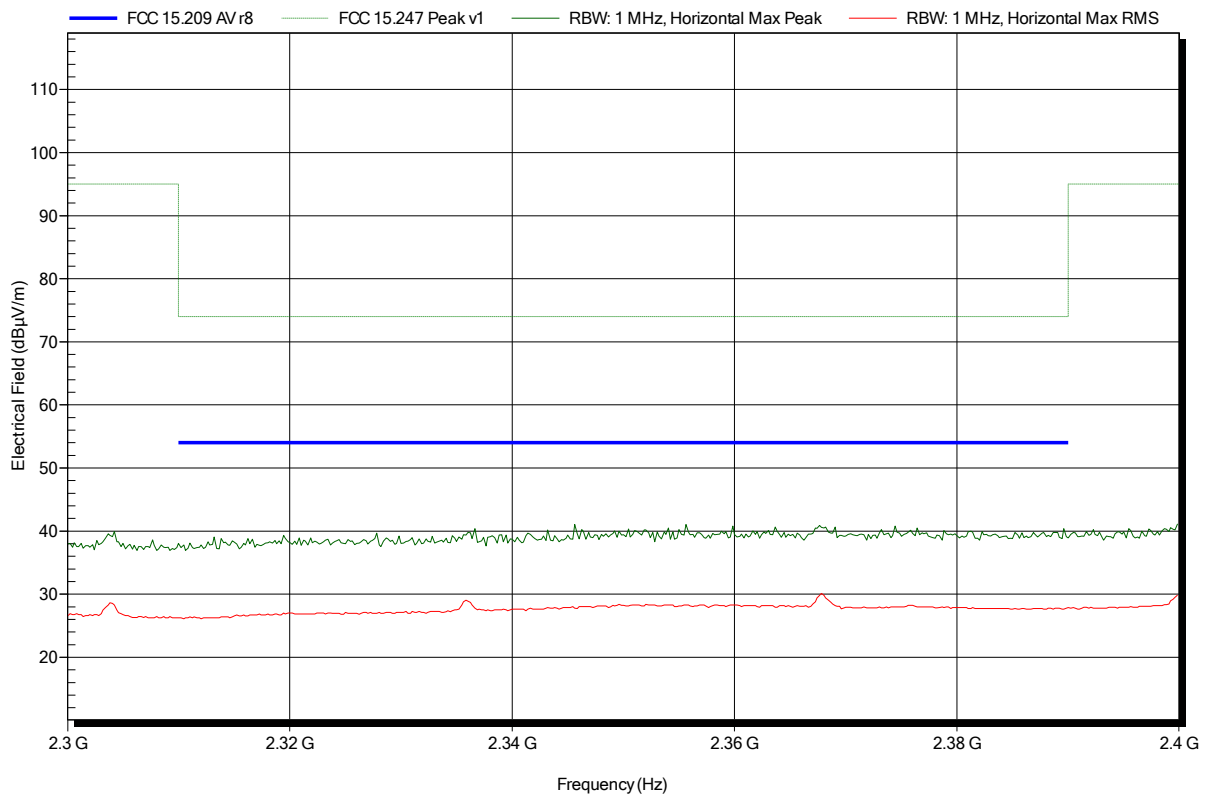


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement distance: | 3 m |
| Mode: | TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical; lower bandedge |

Index 184

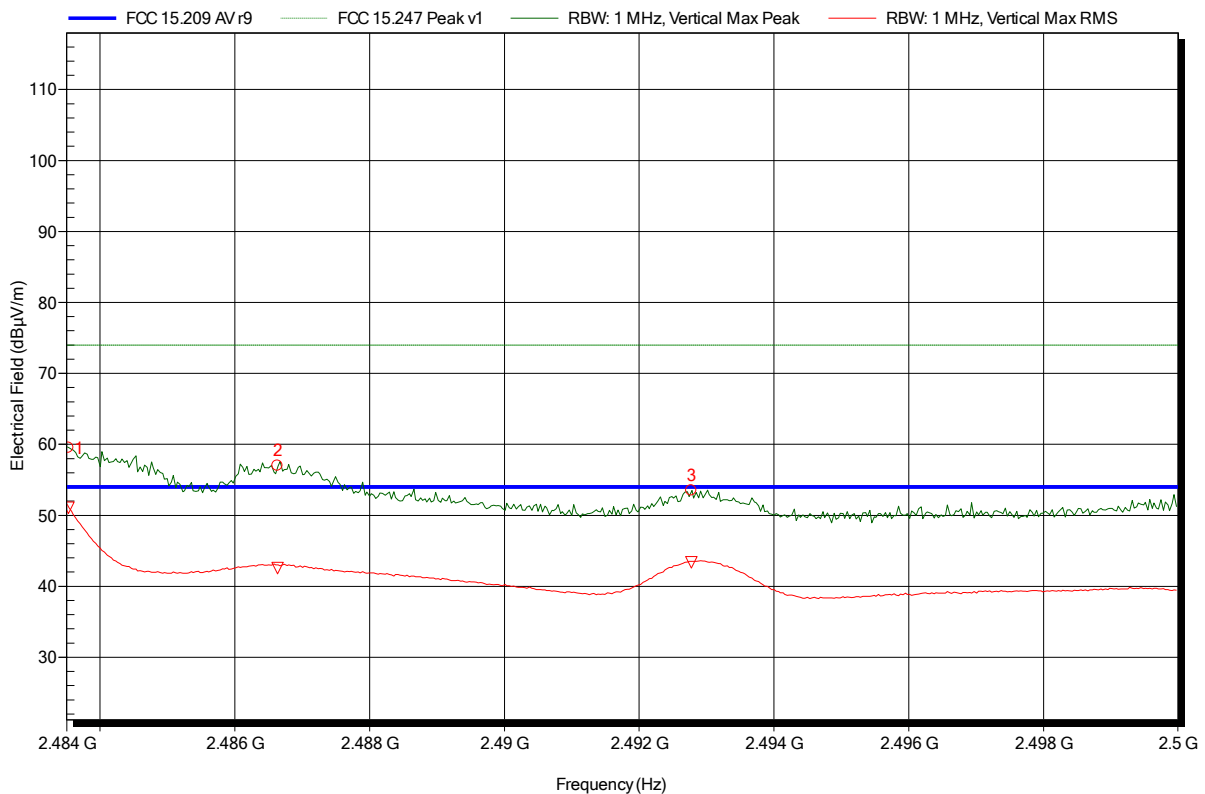


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical; upper bandedge

Index 173



| Frequency | Peak | Peak Limit | Peak Difference | Peak Status |
|------------|--------------|------------|-----------------|-------------|
| 2.4835 GHz | 59.51 dBµV/m | 74 dBµV/m | -14.49 dB | Pass |
| 2.4866 GHz | 56.99 dBµV/m | 74 dBµV/m | -17.01 dB | Pass |
| 2.4928 GHz | 53.49 dBµV/m | 74 dBµV/m | -20.51 dB | Pass |

| Frequency | RMS | RMS Limit | RMS Difference | RMS Status |
|------------|--------------|-----------|----------------|------------|
| 2.4835 GHz | 51.06 dBµV/m | 54 dBµV/m | -2.94 dB | Pass |
| 2.4866 GHz | 42.56 dBµV/m | 54 dBµV/m | -11.44 dB | Pass |
| 2.4928 GHz | 43.38 dBµV/m | 54 dBµV/m | -10.62 dB | Pass |

Test Report No.: G0M-1406-3914-TFC247BT-V01

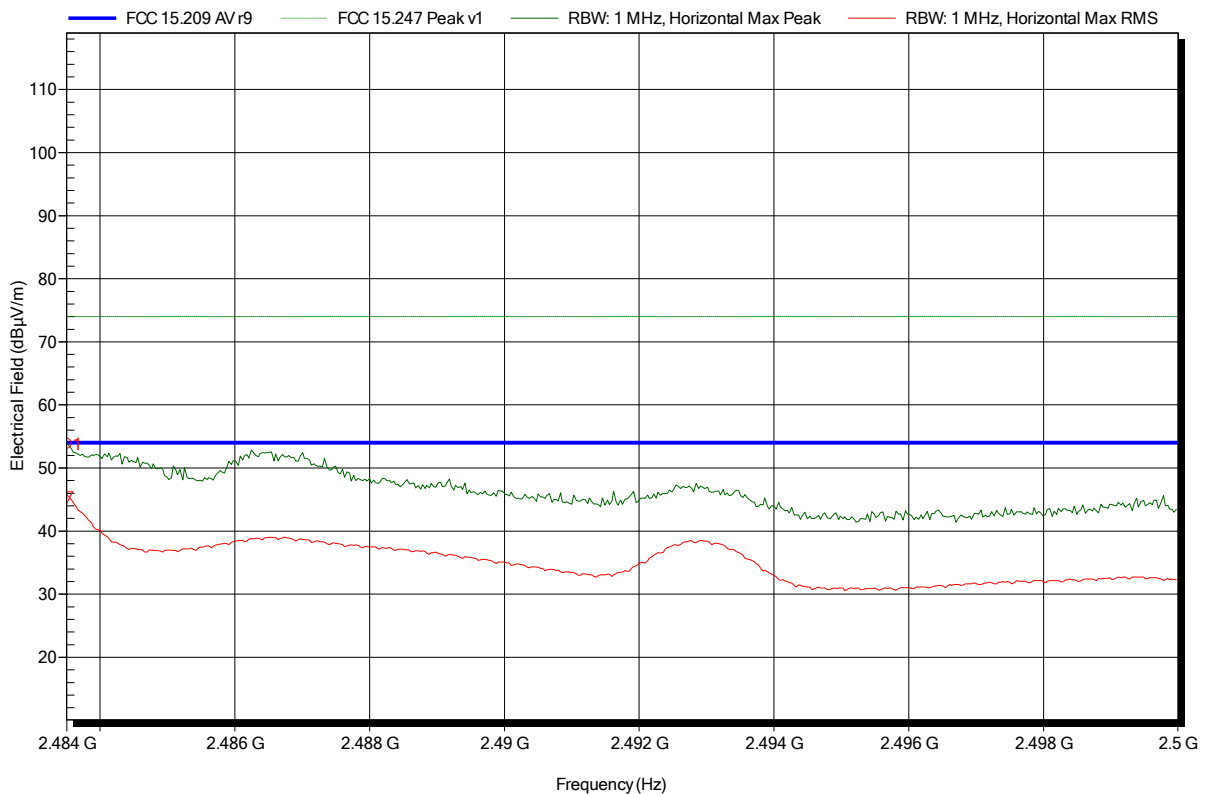
 Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical; upper bandedge

Index 185



| | | | | |
|------------|--------------|------------|-----------------|-------------|
| Frequency | Peak | Peak Limit | Peak Difference | Peak Status |
| 2.4835 GHz | 53.82 dBµV/m | 74 dBµV/m | -20.18 dB | Pass |
| Frequency | RMS | RMS Limit | RMS Difference | RMS Status |
| 2.4835 GHz | 45.34 dBµV/m | 54 dBµV/m | -8.66 dB | Pass |

Test Report No.: G0M-1406-3914-TFC247BT-V01

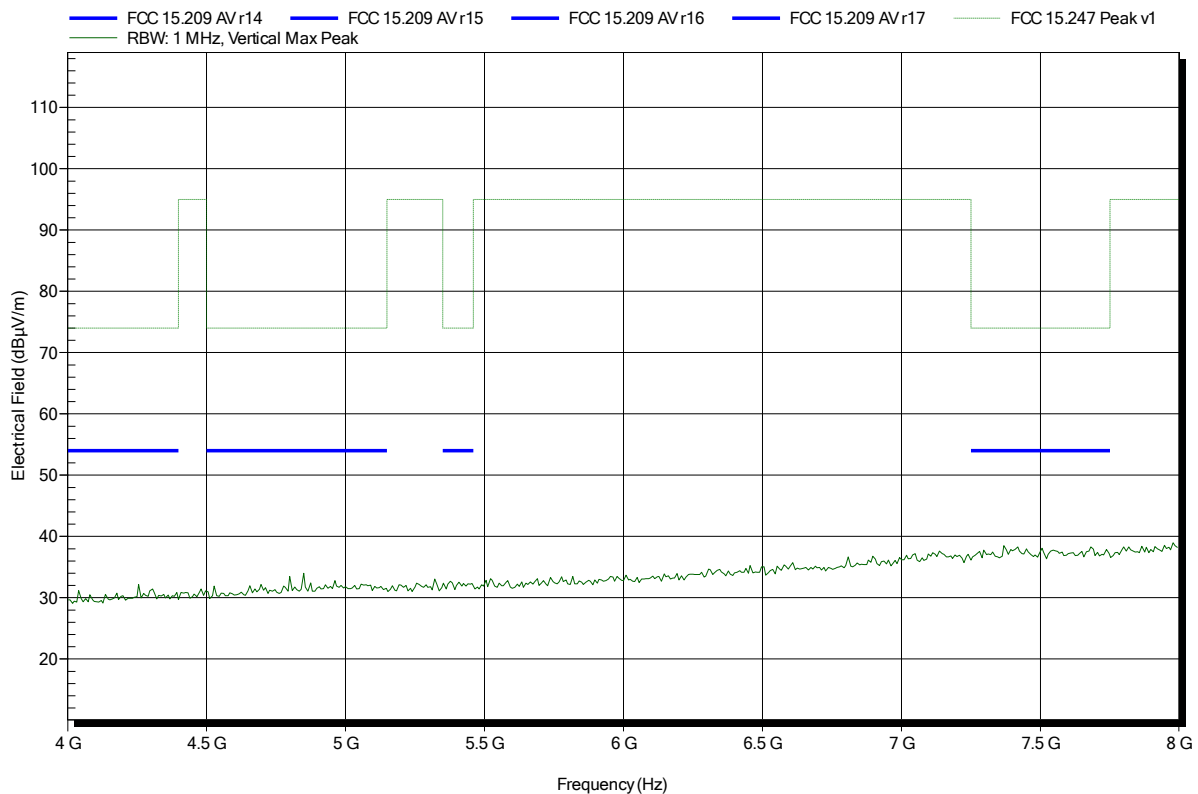
 Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 166

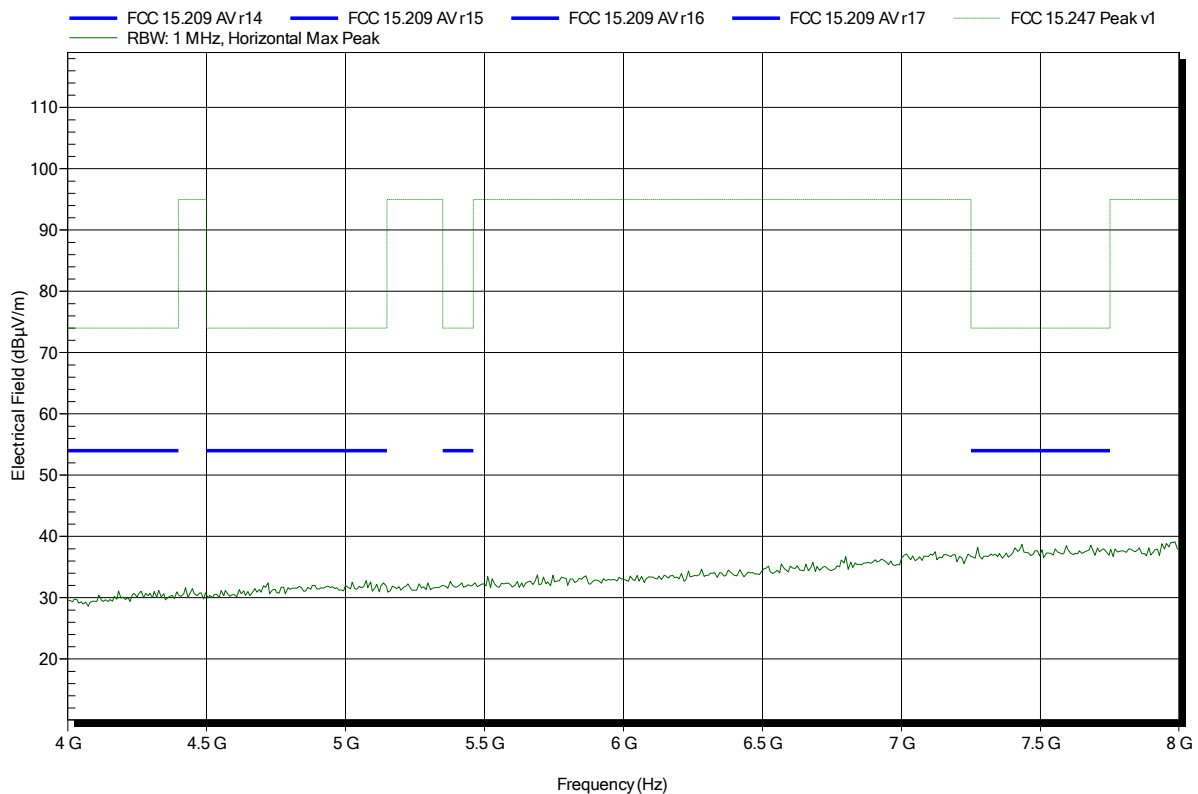


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 178

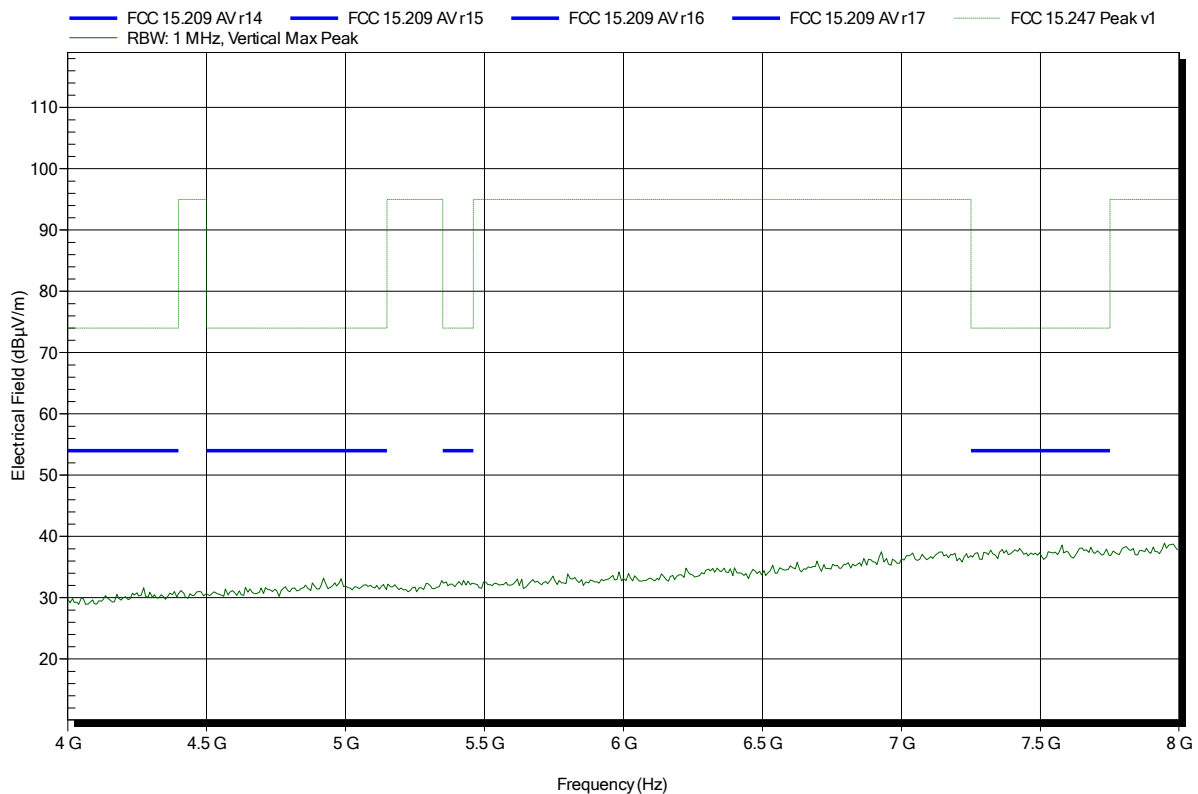


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 170

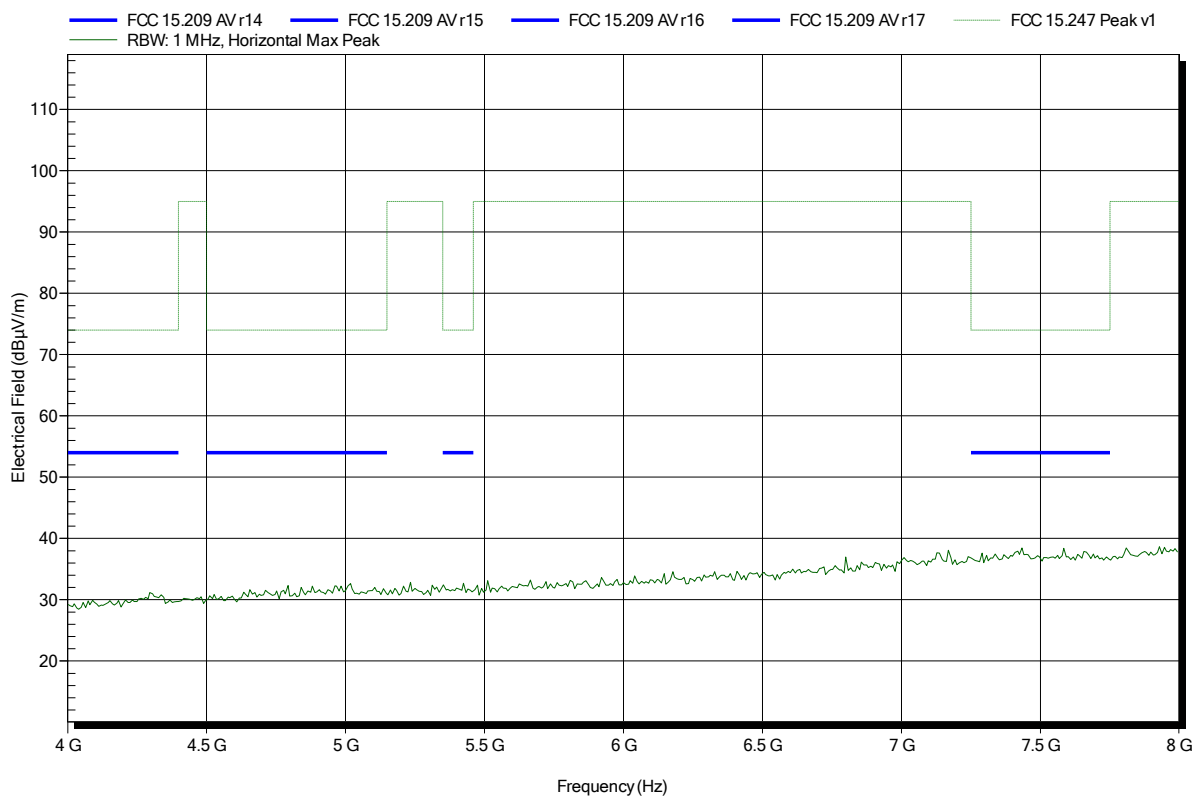


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 182

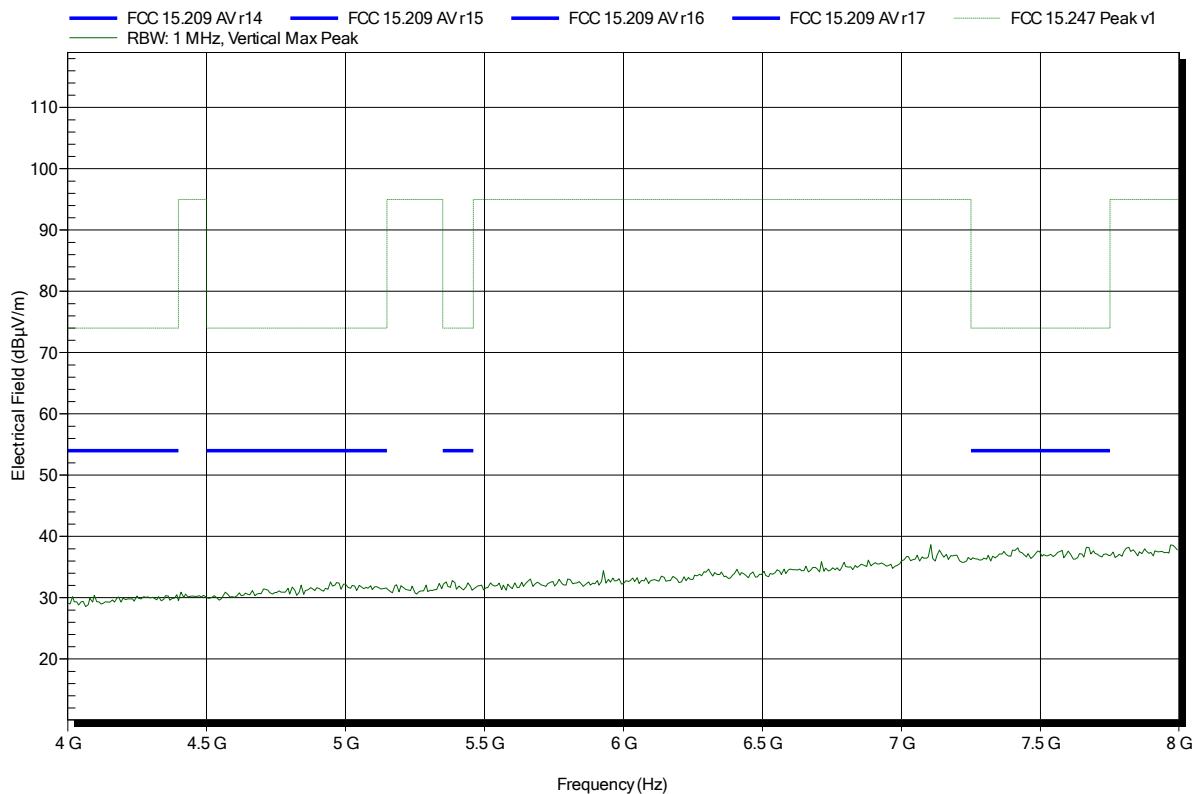


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 174

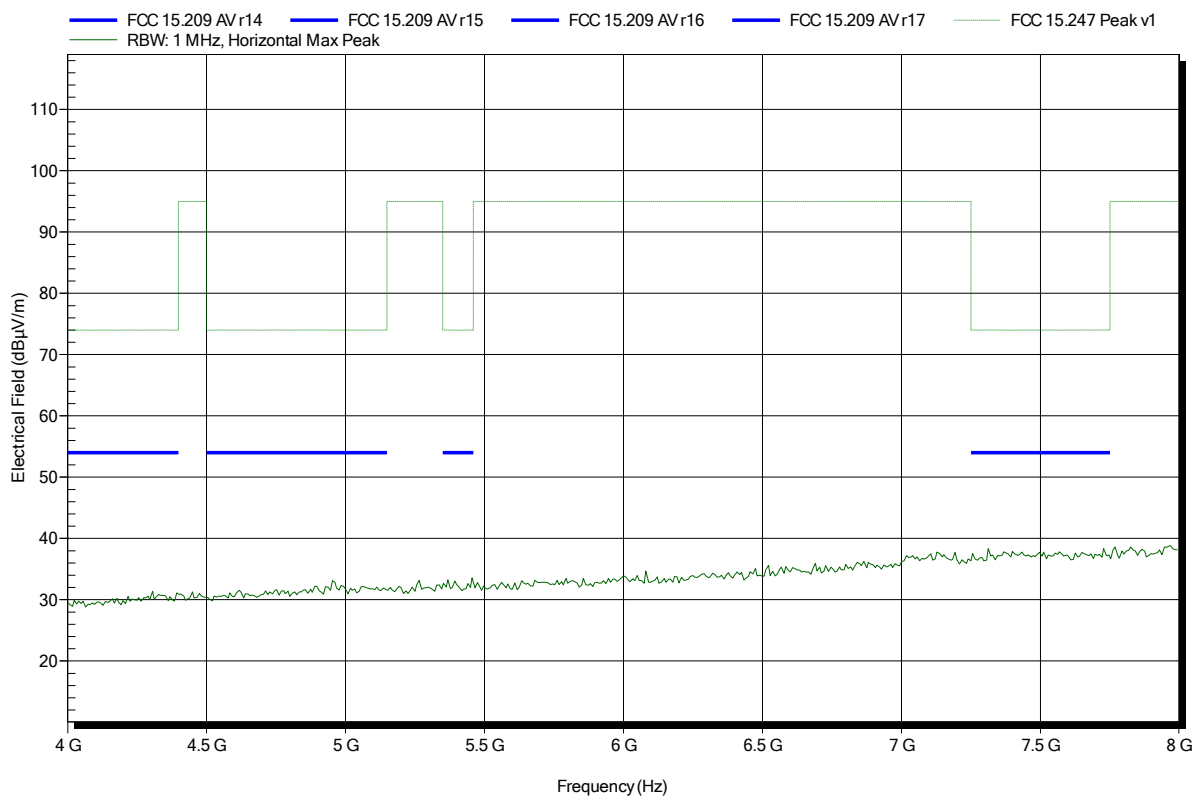


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 186

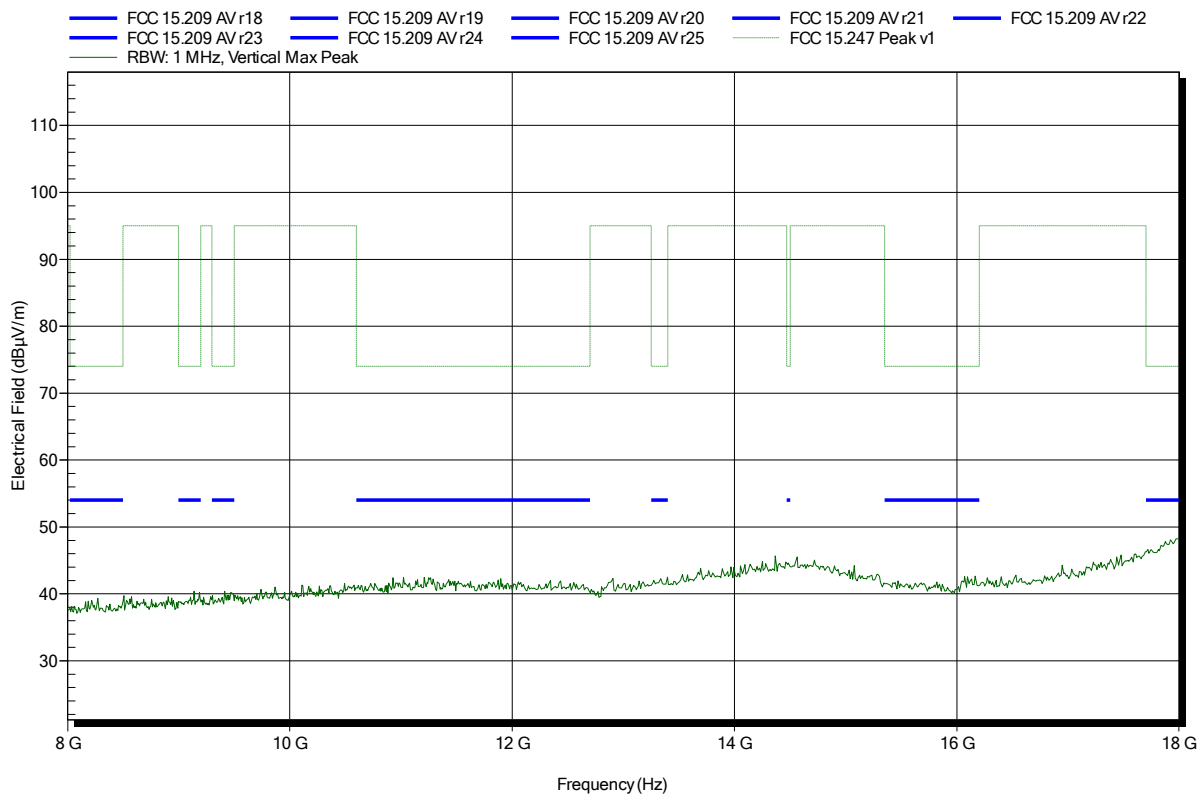


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 191



Test Report No.: G0M-1406-3914-TFC247BT-V01

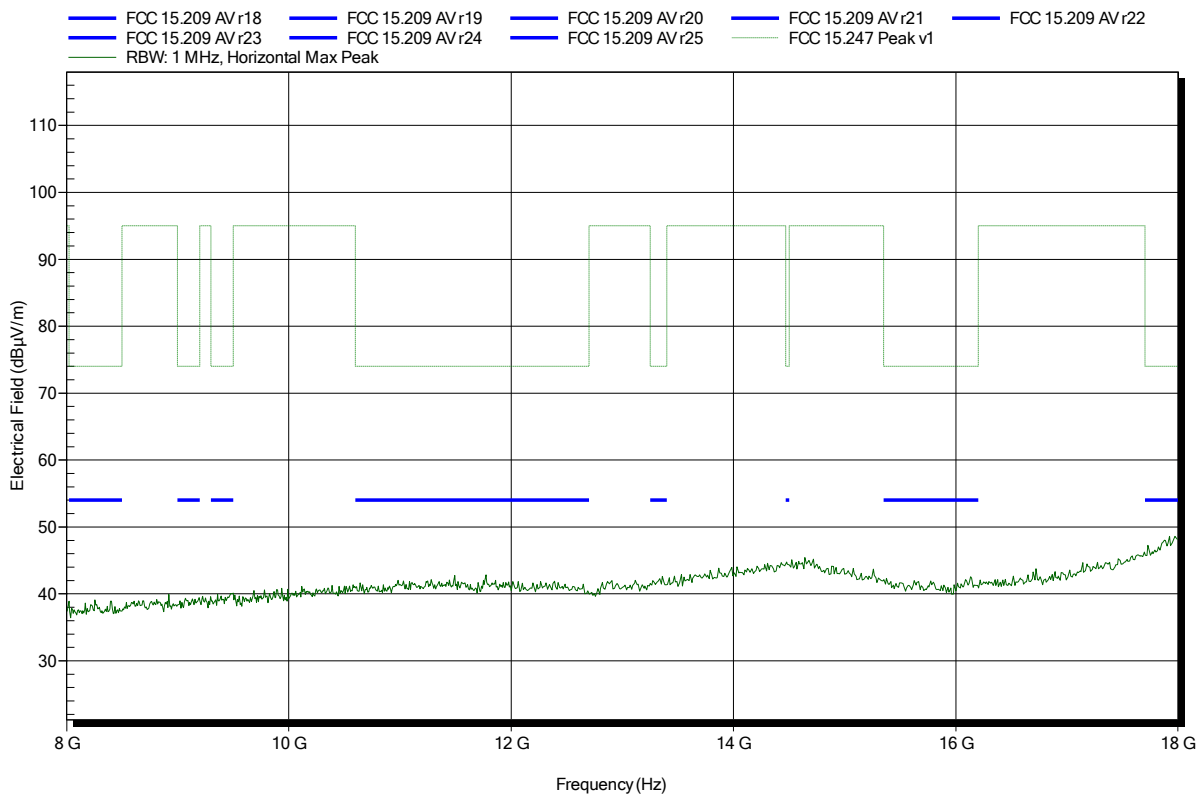
 Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 193

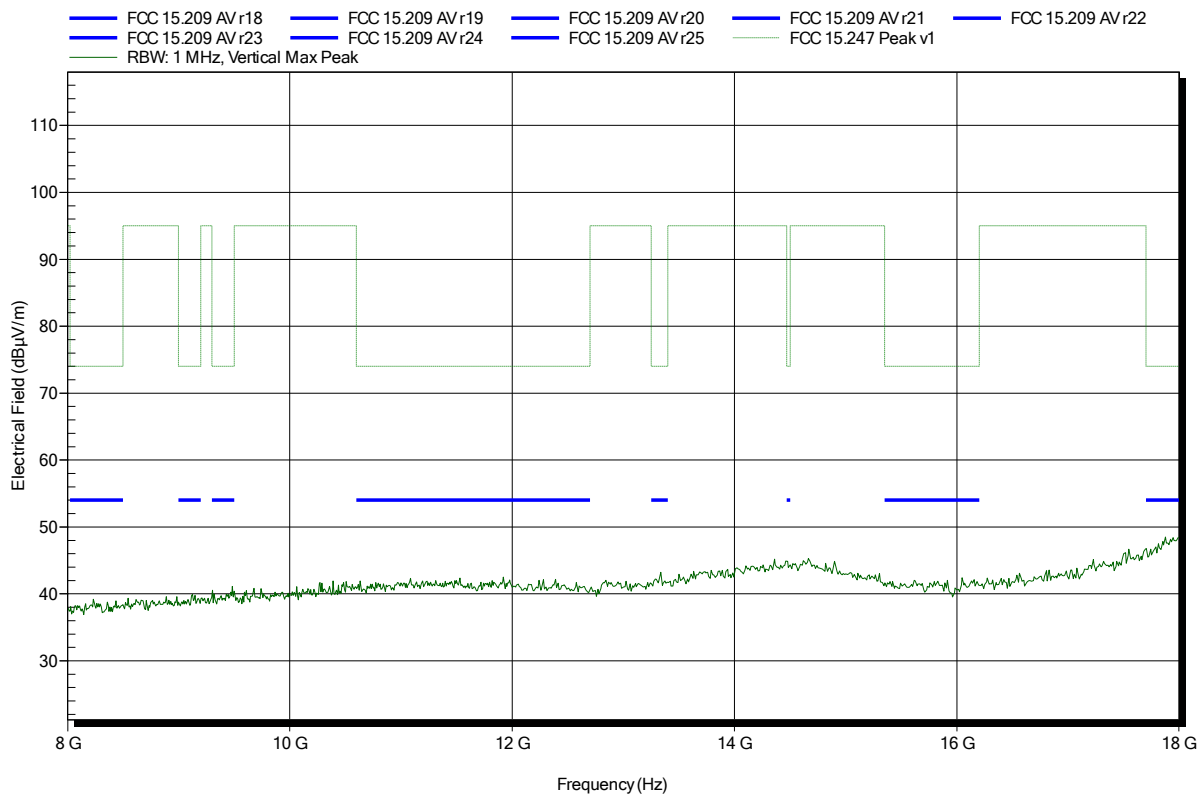


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 189

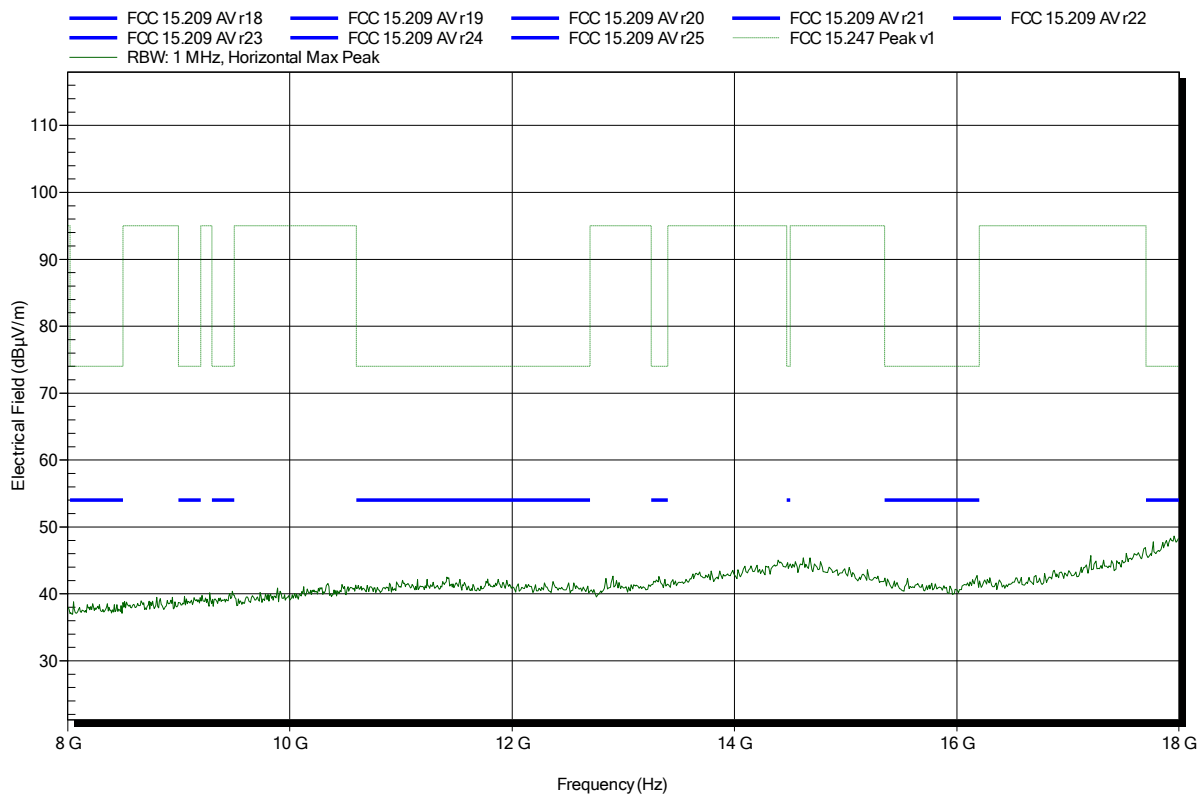


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 195

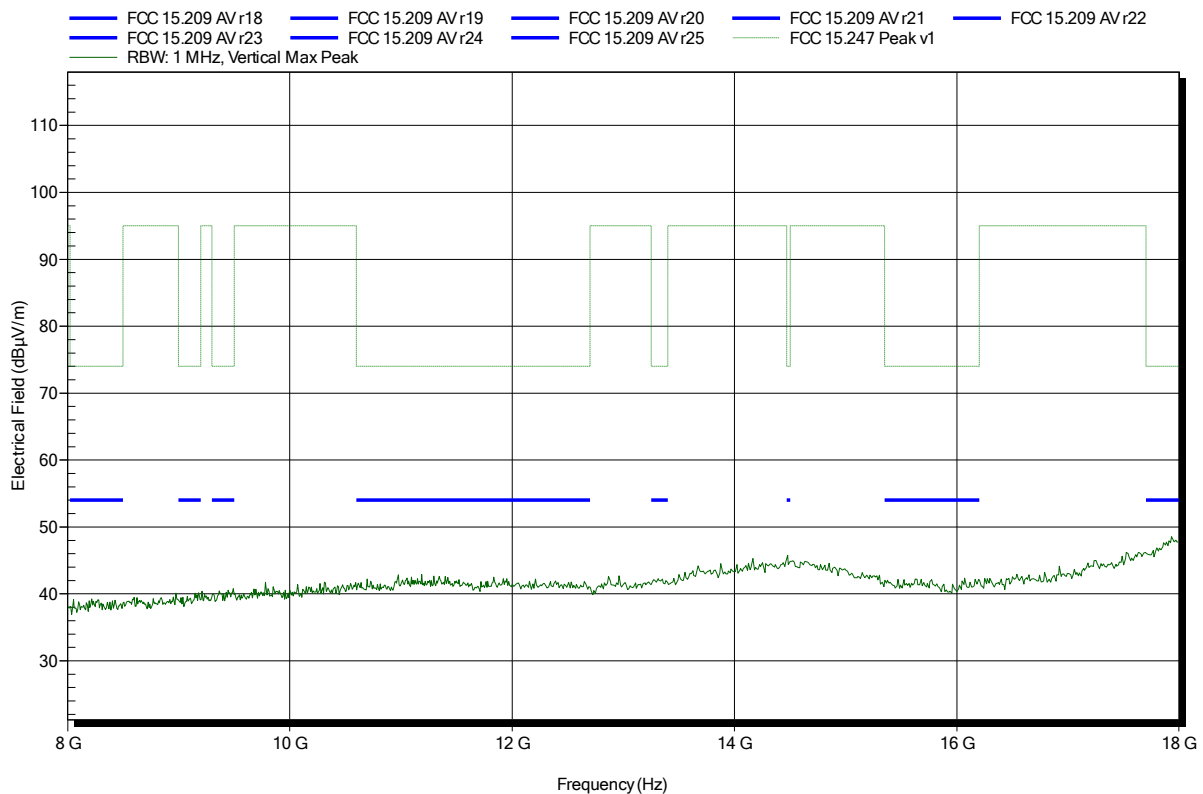


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 187

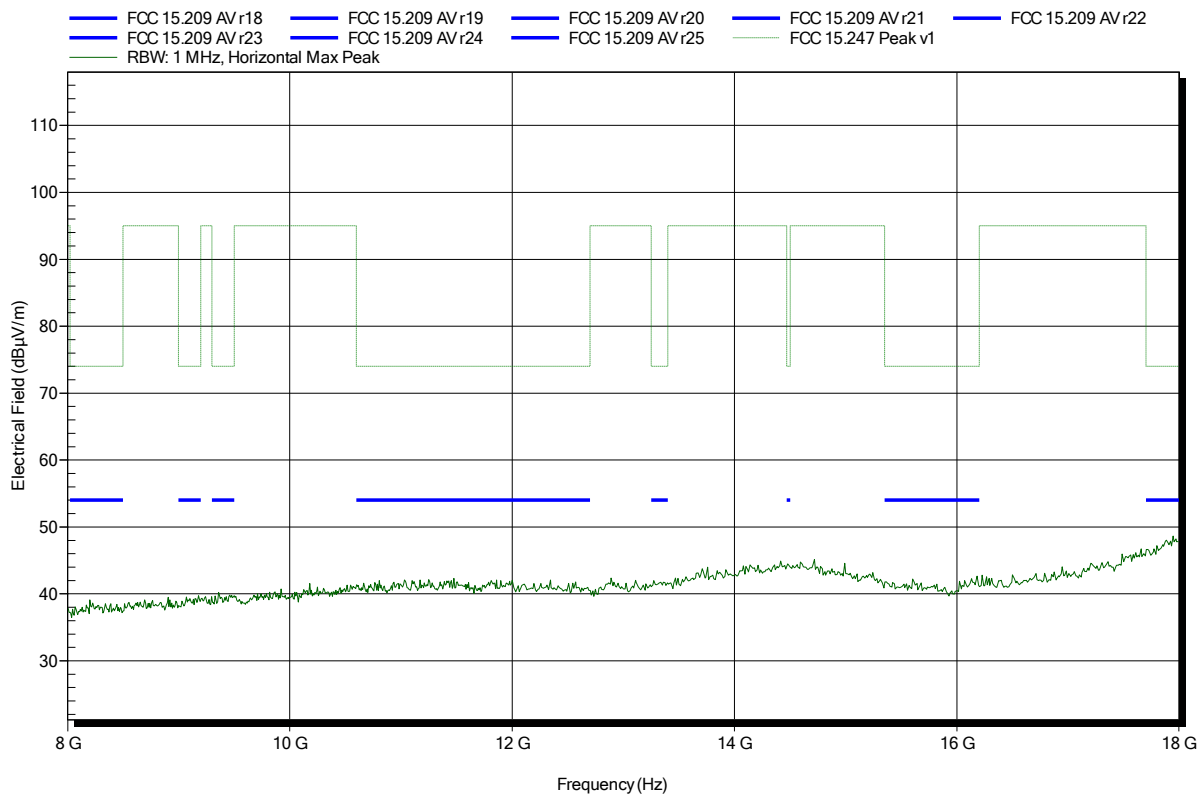


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2015-02-23
 Note: EUT horizontal; ANT vertical

Index 197

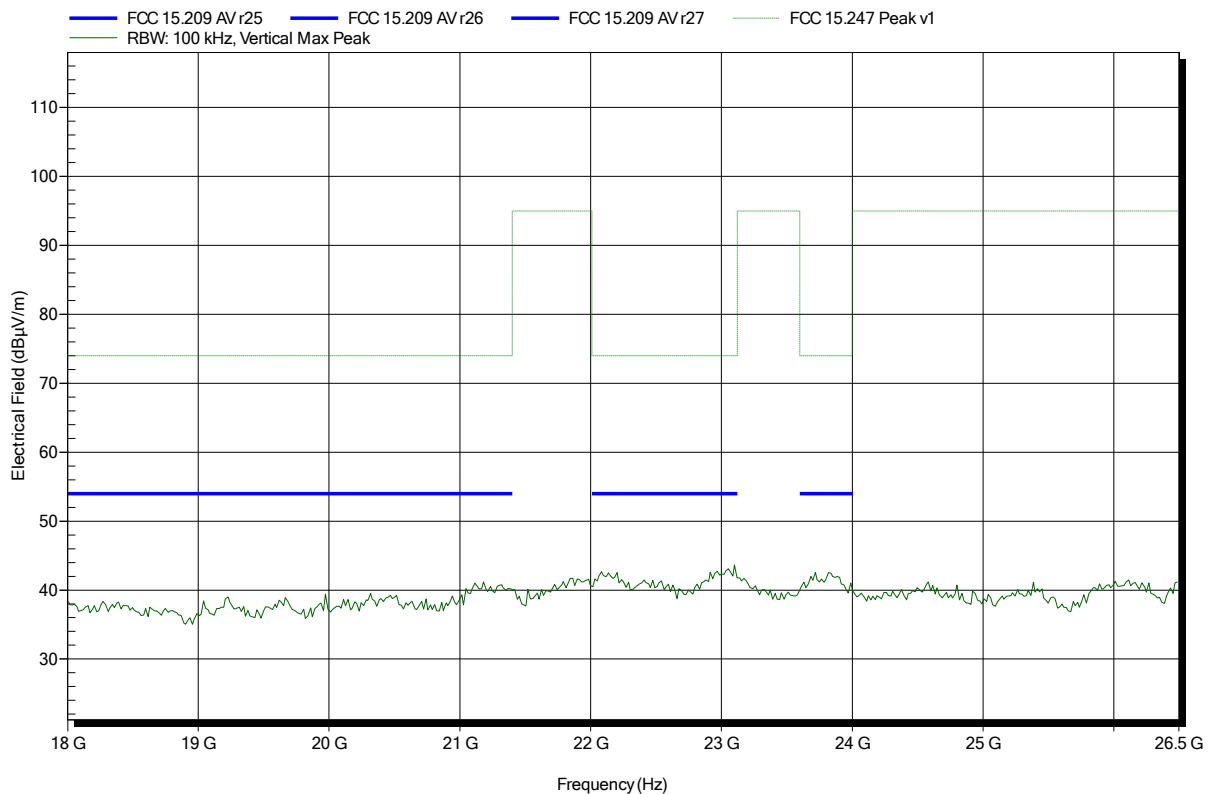


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 025, Vertical |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 192

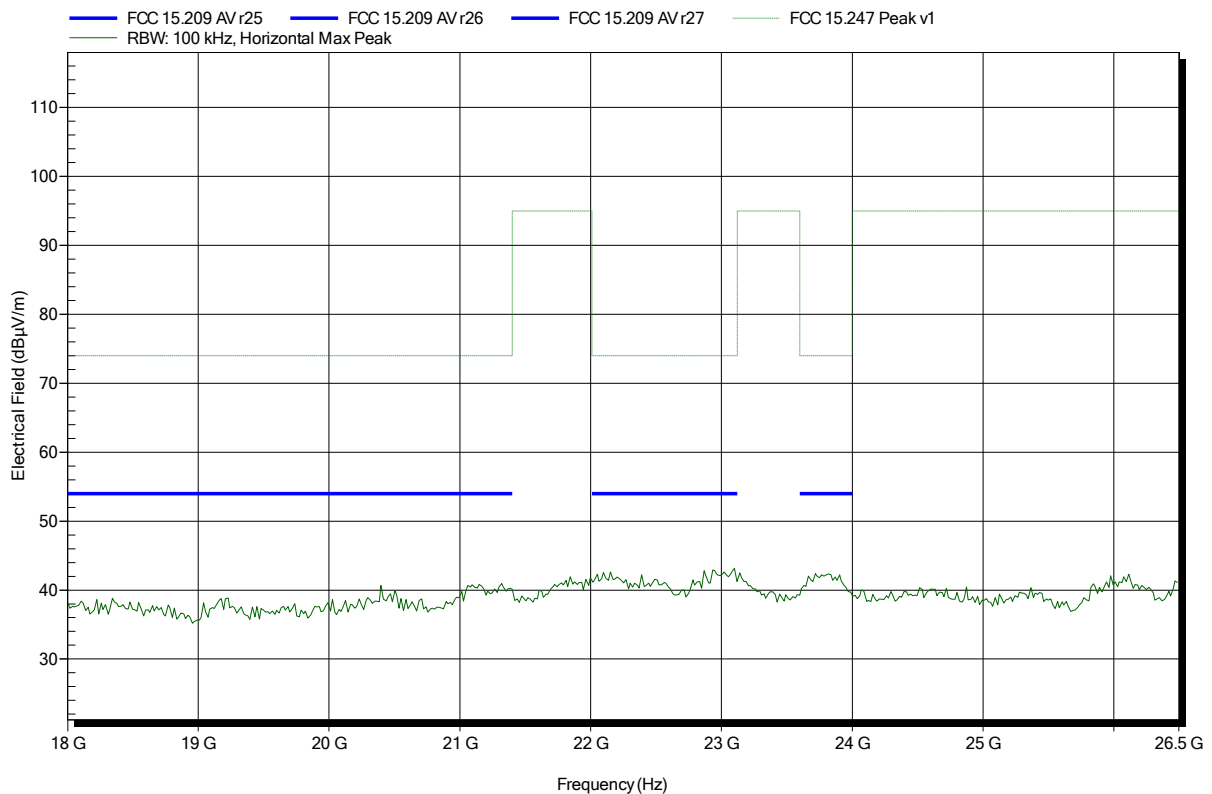


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 025, Horizontal |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 194

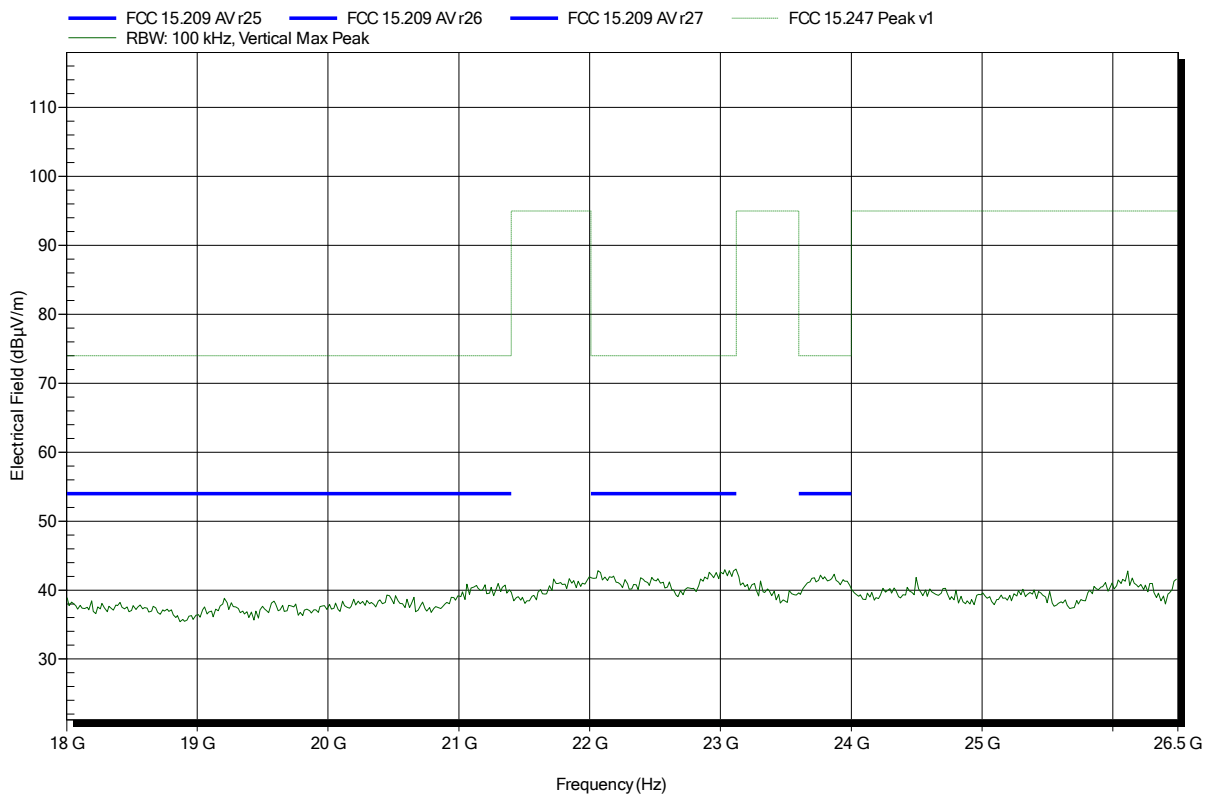


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 025, Vertical |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 190

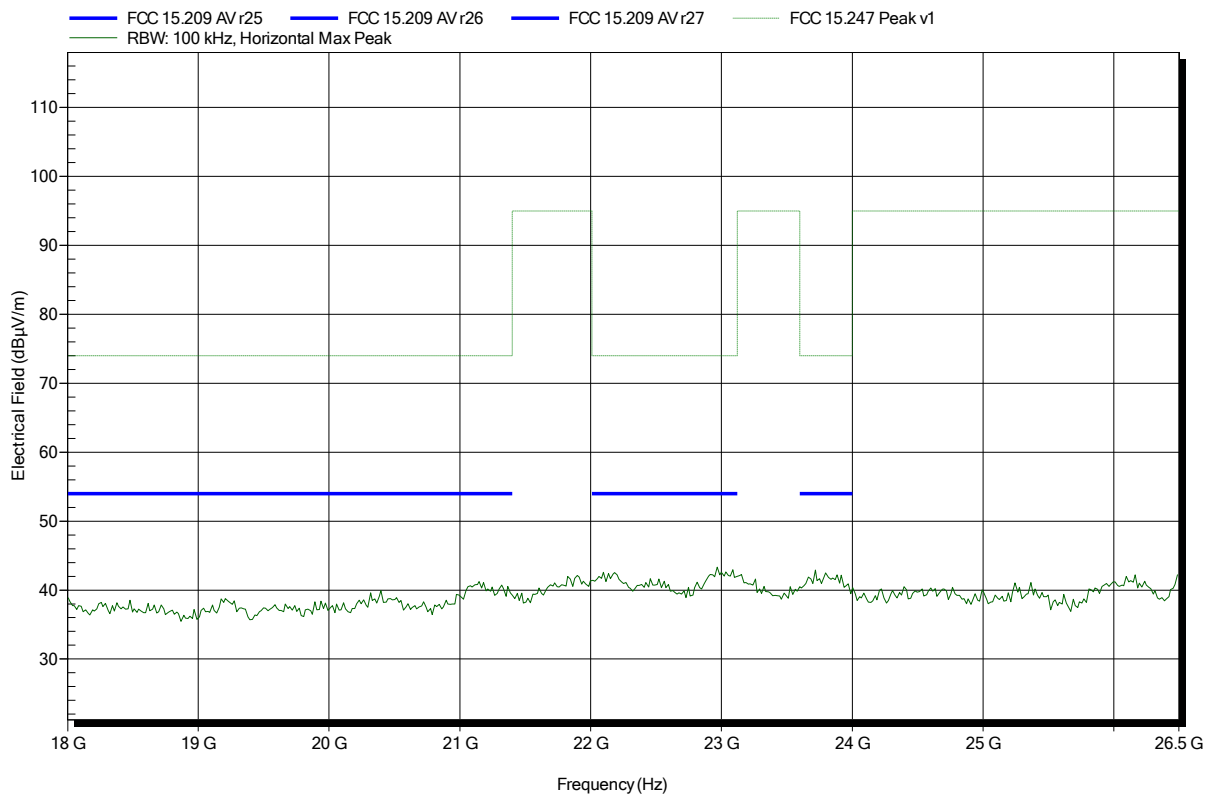


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 025, Horizontal |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 196

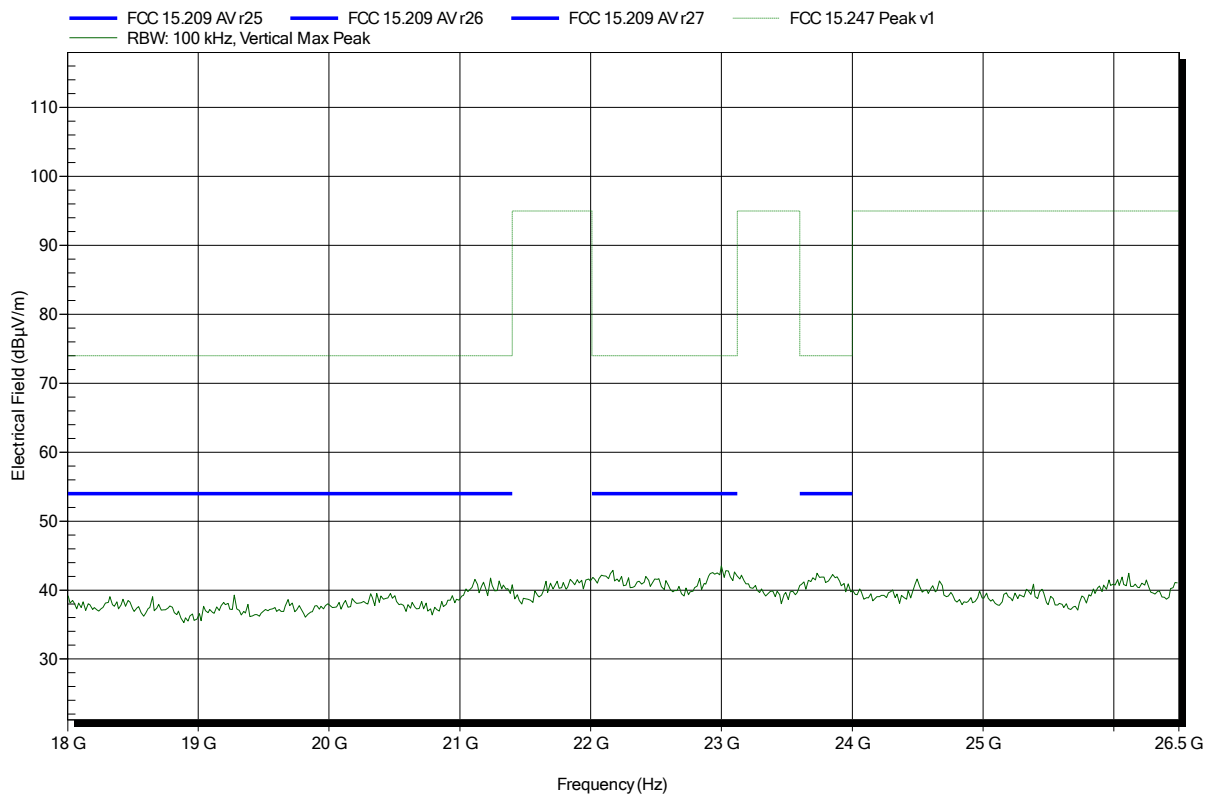


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 025, Vertical |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 188

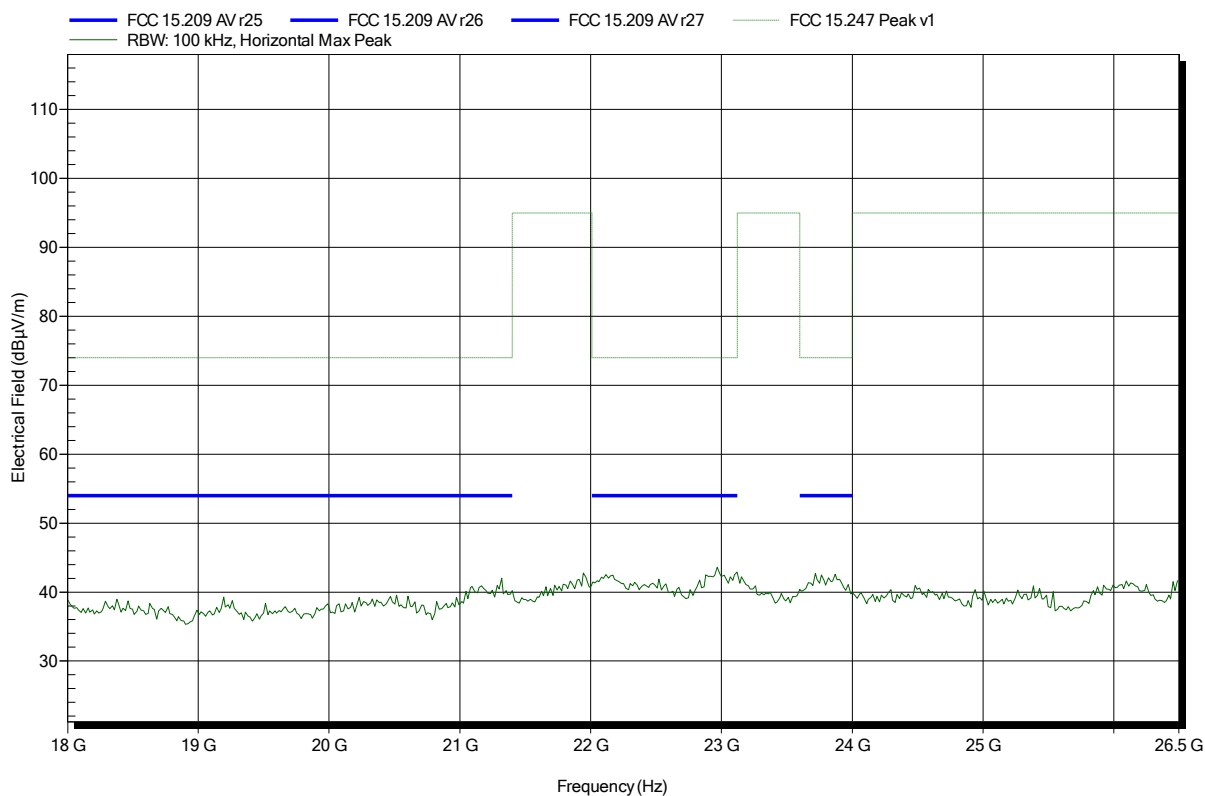


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|--|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HL 025, Horizontal |
| Measurement distance: | 1 m converted to 3m |
| Mode: | TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5 |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 198



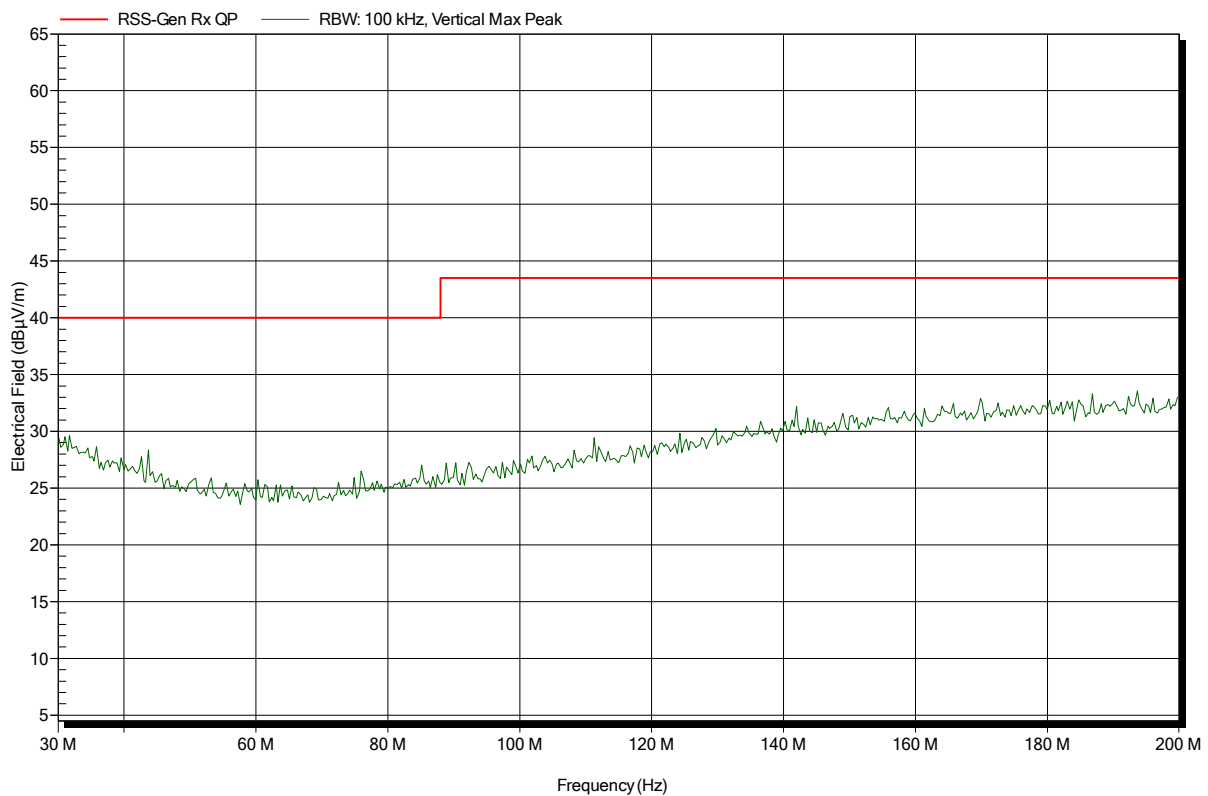
ANNEX B Receiver radiated spurious emissions

Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HK 116, Vertical |
| Measurement distance: | 3 m |
| Mode: | RX; BT-BR; CH: Hopping; DUT-RX -Test-Mode |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 77

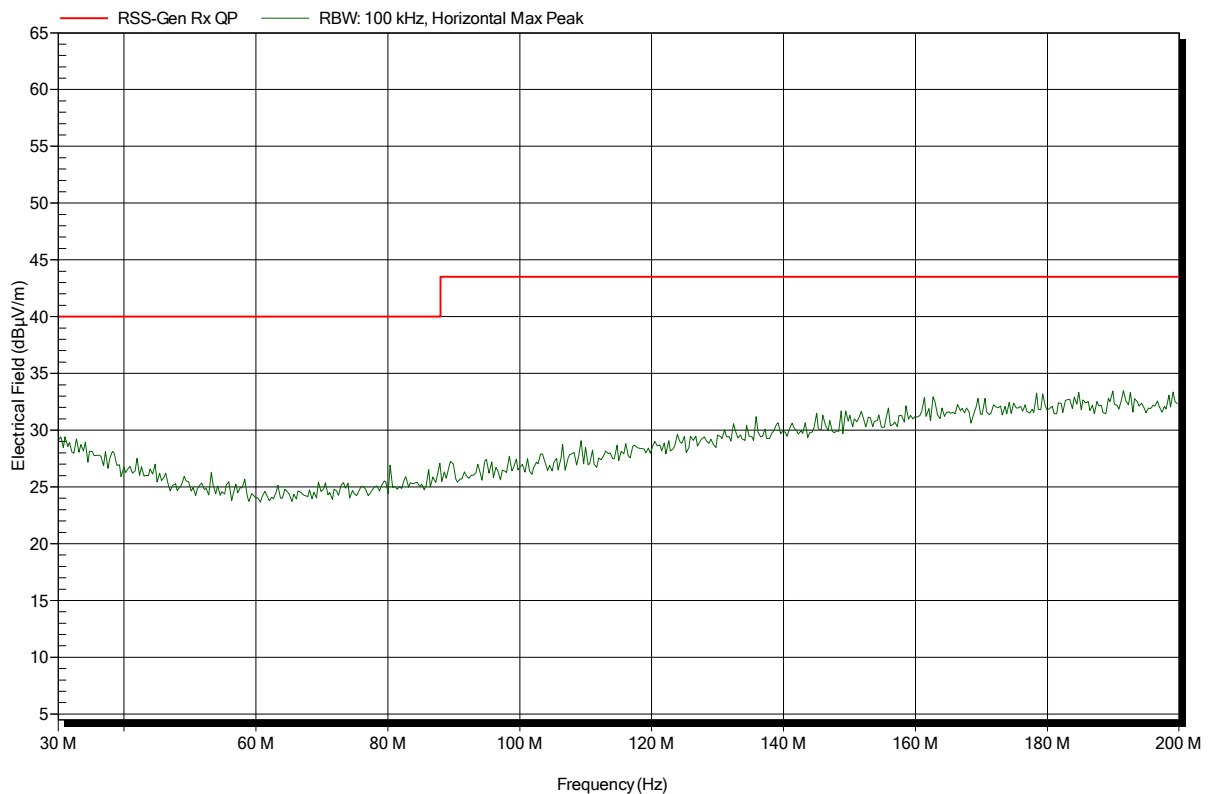


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Rohde & Schwarz HK 116, Horizontal |
| Measurement distance: | 3 m |
| Mode: | RX; BT-BR; CH: Hopping; DUT-RX -Test-Mode |
| Test Date: | 2015-02-24 |
| Note: | EUT horizontal; ANT vertical |

Index 78

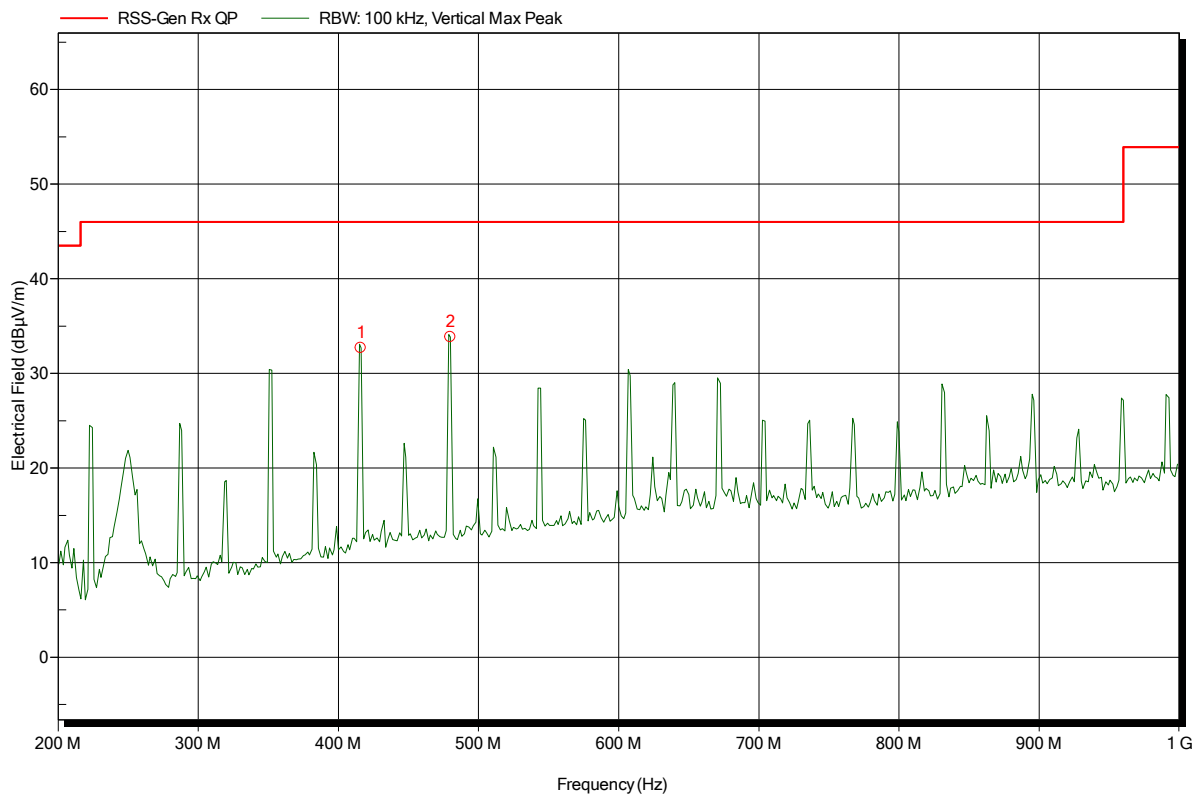


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: RX; BT-BR; CH: Hopping; DUT-RX -Test-Mode
 Test Date: 2015-02-24
 Note: EUT horizontal; ANT vertical

Index 75



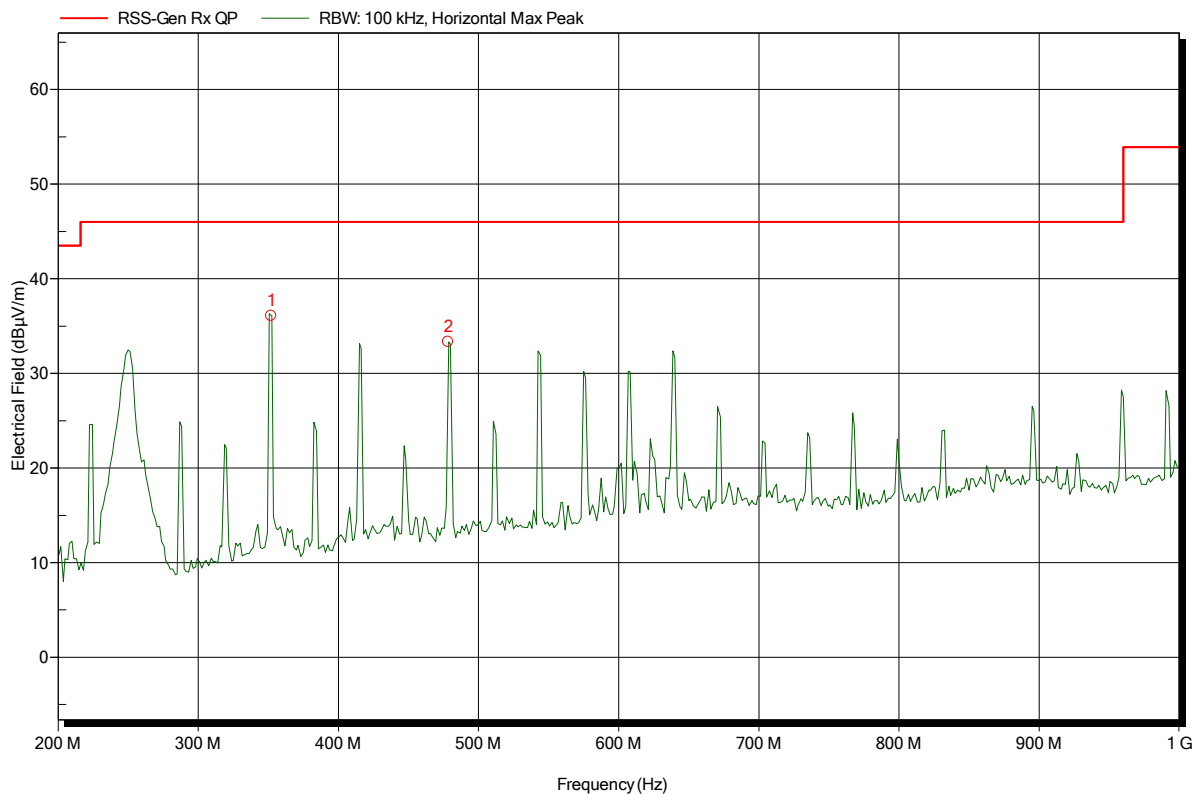
| Frequency | Peak | Peak Limit | Peak Difference | Status |
|-----------|--------------|------------|-----------------|--------|
| 416 MHz | 32.67 dBµV/m | 46 dBµV/m | -13.33 dB | Pass |
| 480 MHz | 33.84 dBµV/m | 46 dBµV/m | -12.16 dB | Pass |

Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

Applicant: Leica Geosystems AG
 EUT Name: Long Range Bluetooth remote control on CS20
 Model: CTR20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 5.0 V DC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: RX; BT-BR; CH: Hopping; DUT-RX -Test-Mode
 Test Date: 2015-02-24
 Note: EUT horizontal; ANT vertical

Index 76



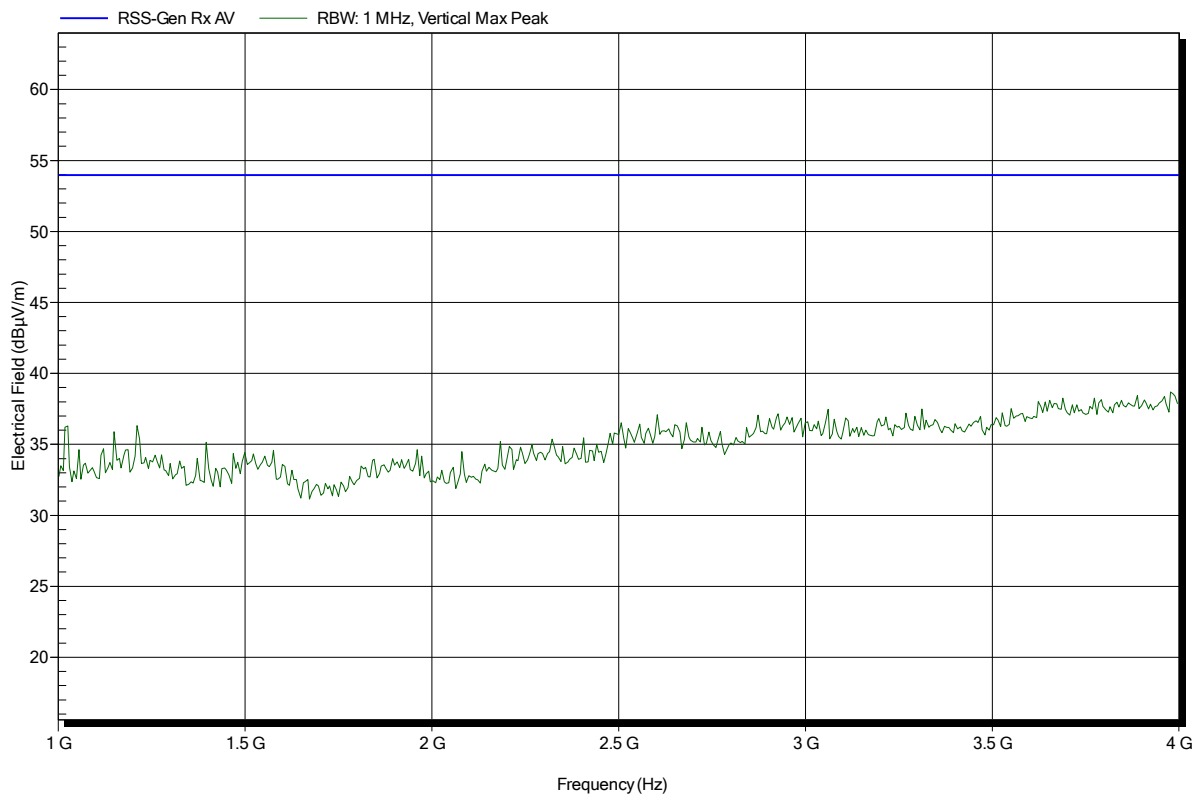
| Frequency | Peak | Peak Limit | Peak Difference | Status |
|-----------|--------------|------------|-----------------|--------|
| 352 MHz | 36.06 dBµV/m | 46 dBµV/m | -9.94 dB | Pass |
| 478.4 MHz | 33.34 dBµV/m | 46 dBµV/m | -12.66 dB | Pass |

Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement distance: | 3 m |
| Mode: | RX; BT-BR; CH: Hopping; DUT-RX -Test-Mode |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 69

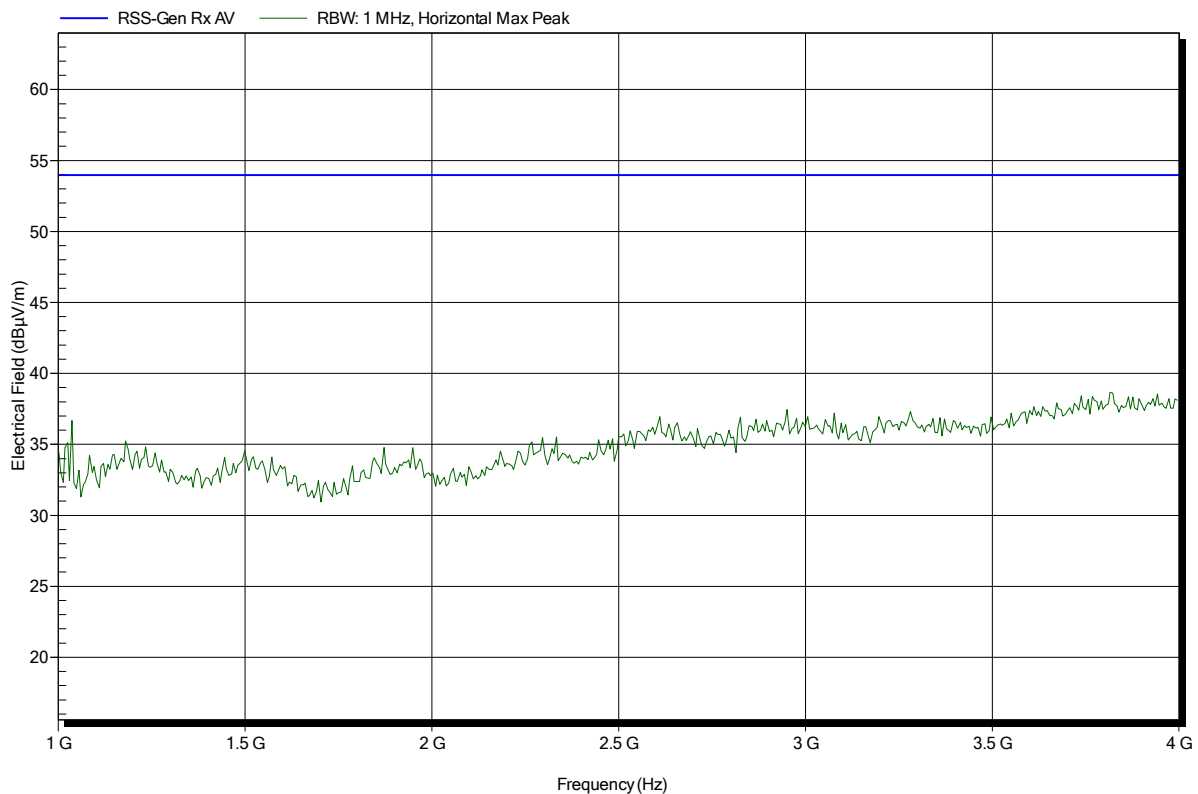


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement distance: | 3 m |
| Mode: | RX; BT-BR; CH: Hopping; DUT-RX -Test-Mode |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 72

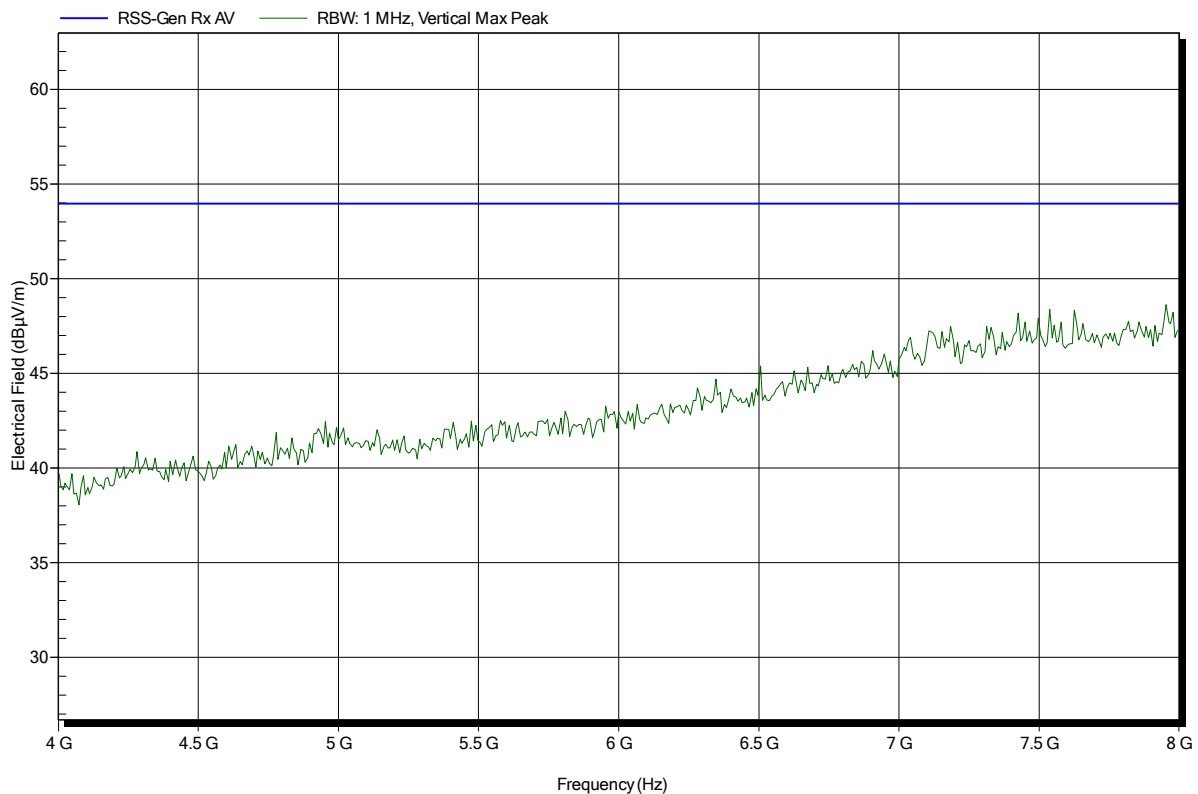


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement distance: | 3 m |
| Mode: | RX; BT-BR; CH: Hopping; DUT-RX -Test-Mode |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 70

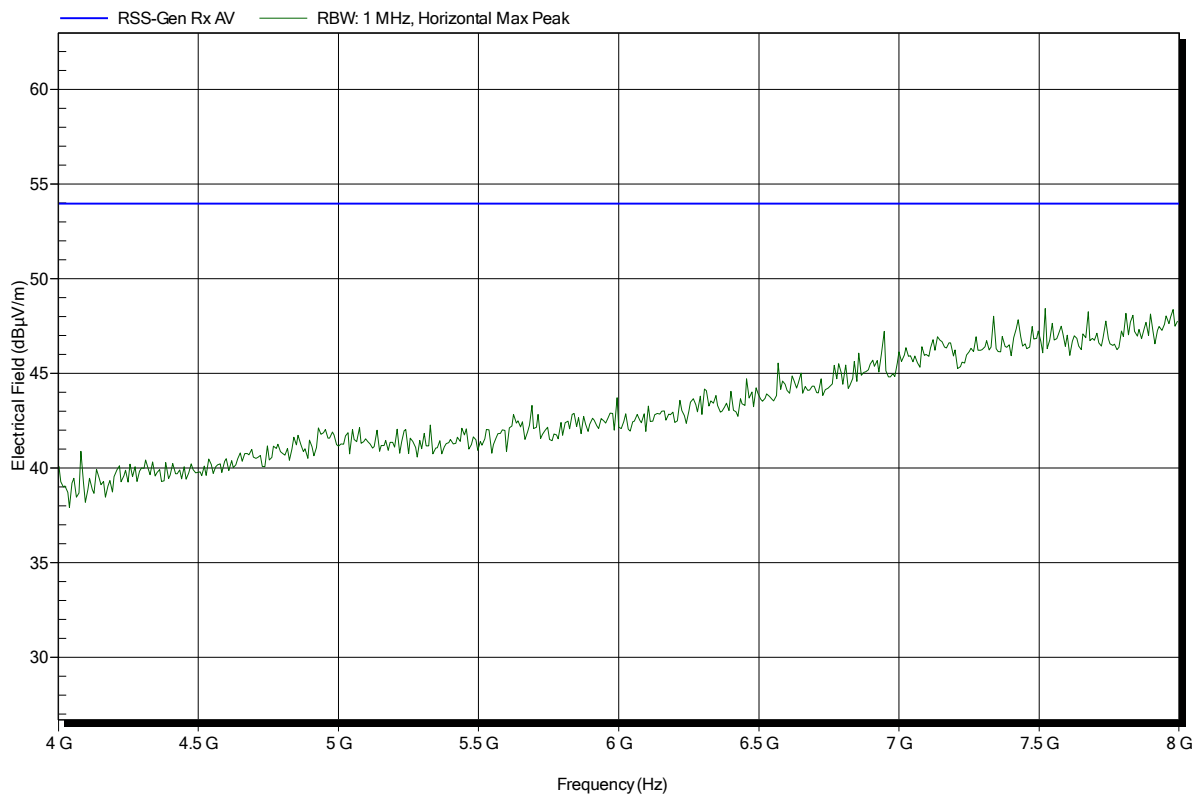


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement distance: | 3 m |
| Mode: | RX; BT-BR; CH: Hopping; DUT-RX -Test-Mode |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 73

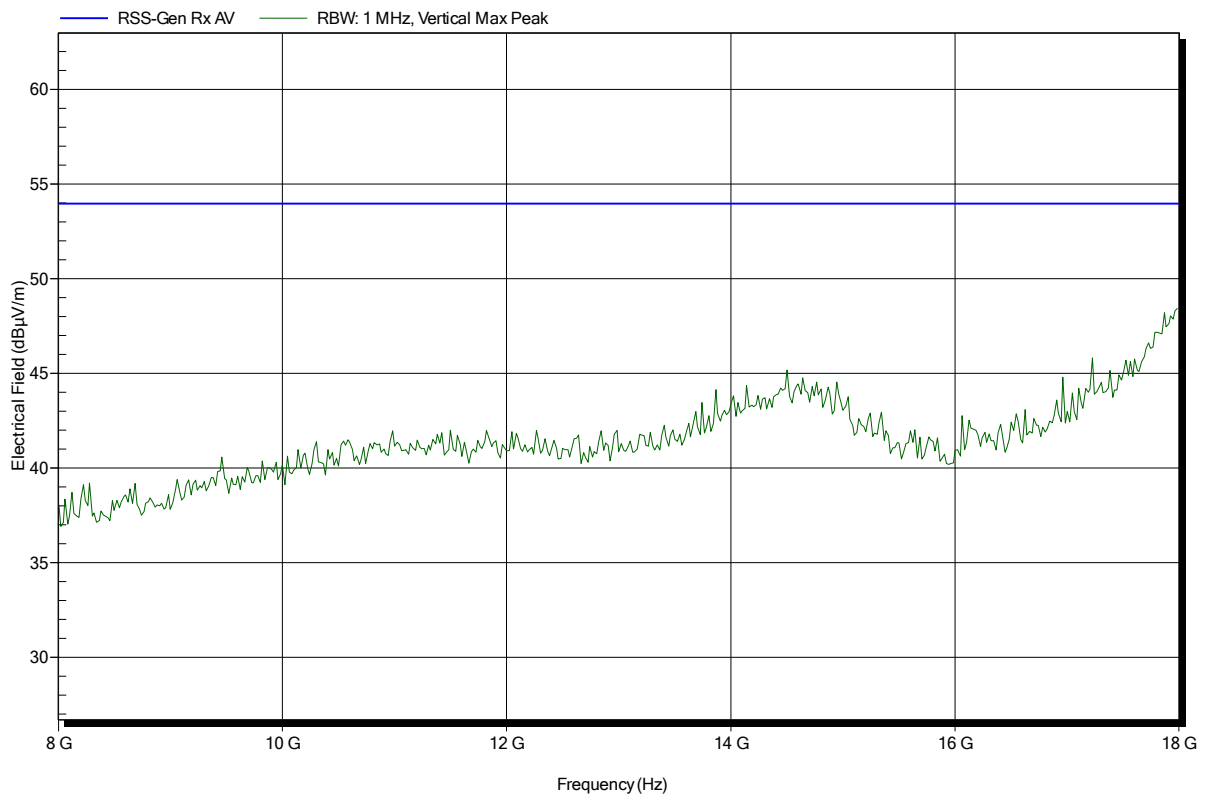


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Vertical |
| Measurement distance: | 1 m converted to 3m |
| Mode: | RX; BT-BR; CH: Hopping; DUT-RX -Test-Mode |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 71



Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3914

| | |
|-----------------------|---|
| Applicant: | Leica Geosystems AG |
| EUT Name: | Long Range Bluetooth remote control on CS20 |
| Model: | CTR20 |
| Test Site: | Eurofins Product Service GmbH |
| Operator: | Mr. Pudell |
| Test Conditions: | Tnom: 24°C, Vnom: 5.0 V DC |
| Antenna: | Schwarzbeck BBHA 9120D, Horizontal |
| Measurement distance: | 1 m converted to 3m |
| Mode: | RX; BT-BR; CH: Hopping; DUT-RX -Test-Mode |
| Test Date: | 2015-02-23 |
| Note: | EUT horizontal; ANT vertical |

Index 74

