

RADIO REPORT FCC 47 CFR Part 15C ISED Canada RSS-247 Digital transmission systems operating within the 2400.0 MHz - 2483.5 MHz band	
Report Reference No	G0M-2302-1878-TFC247BL-V03
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    DAkks - Registration number : D-PL-12092-01-03 (ISED) ISED Testing Laboratory site: 3470A DAkks - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	Leica Geosystems AG
Address	Heinrich-Wild-Strasse 9435 Heerbrugg SWITZERLAND
Test Specification	47 CFR Part 15C RSS-247, Issue 3, 2017-02 RSS-Gen, Issue 5, Amendment 2, 2021-02
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Remote Control
Model(s)	Leica RC10
Additional Model(s)	See on page 3
Brand Name(s)	Leica
Hardware Version(s)	V0302
Software Version(s)	Soft Device 7.20
FCC ID	RFF-RC1BT
IC ID	3177A-RC1BT
Test Result	PASSED

Possible test case verdicts:		
Required by standard but not tested	N/T	
Not required by standard	N/R	
Not applicable to EUT	N/A	
Test object does meet the requirement	P(PASS)	
Test object does not meet the requirement	F(FAIL)	
Testing:		
Test Lab Temperature	20 °C - 30 °C	
Test Lab Humidity	25 % - 55 %	
Date of receipt of test item	2023-02-27	
Report:		
Compiled by	Wilfried Treffke	
Tested by (+ signature) (Responsible for Test)	Wilfried Treffke	
Approved by (+ signature) (Senior Radio Expert)	Radwan Jaafar	
Date of Issue	2024-01-24	
Total number of pages	116	
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:		
None		

ADDITIONAL VARIANTS

Additional Variants (not tested and not evaluated variants)		
Not-tested Variant	Description	
1	Product Type Description	Remote Control
	Model Name	Remote Control
	Brand Name (optional)	Hexagon
	Hardware Version	V0302
	Software Version	Soft Device 7.20
	PMN	Remote Control
	HVIN	Remote Control
	FVIN	N/A
	HMN	N/A
Comment: Those named additional variants above have not been tested. Those additional variants of the series have been declared by the manufacturer. The test report explicitly states that those variants were neither tested nor assessed nor evaluated.		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2023-04-26	Initial Release	--
02	2024-01-23	Replaced document: G0M-2302-1878-TFC247BL-V01 Replaced by: G0M-2302-1878-TFC247BL-V02 Reason: Correction on section 3.4 page 44: - Results Table Title Corrected from 1 Mbps to 2 Mbps. - Added EIRP values to the test results.	R.Jaafar
02	2024-01-24	Replaced document: G0M-2302-1878-TFC247BL-V02 Replaced by: G0M-2302-1878-TFC247BL-V03 Reason: - Correction of Results Table -1 Mbps on section 3.4 page 44. - Correction of the Test specification version RSS-247, Issue 2 to Issue 3.	R.Jaafar

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V _{NOM}	Nominal supply voltage

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1 Equipment (Test Item) Under Test

Description	Remote Control	
Model	Leica RC10	
Additional Model(s)	See on page 3	
Brand Name(s)	Leica	
Sample Identification(s)	Serial Number	Test Sample ID
	2323840074	43163 conducted test sample
	Proto type	43164 radiated test sample
Hardware Version(s)	V0302	
Software Version(s)	Soft Device 7.20	
PMN	Leica RC10	
HVIN	Leica RC10	
FVIN	Soft Device 7.20	
HMN	N/A	
FCC ID	RFF-RC1BT	
IC	3177A-RC1BT	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	2400.0 MHz - 2483.5 MHz	
Radio technology	Bluetooth LE 5.0	
Bluetooth Specification	LE 1M PHY	Yes
	LE 2M PHY	Yes
	LE Coded PHY S=8 (125 kbit)	No
	LE Coded PHY S=2 (500 kbit)	No
	Stable Modulation Index - Transmitter	No
	Stable Modulation Index - Receiver	No
Modulation	GFSK	
Number of antenna ports	1	
Antenna	Type	Integrated antenna
	Model	2450AT18B100E
	Manufacturer	Johanson Technology
	Gain	0.5 dBi (Antenna data sheet)
Supply Voltage	V _{NOM}	3.6 VDC
Operating Temperature	T _{NOM}	20 °C
AC/DC-Adaptor	Model	None
Manufacturer	Leica Geosystems AG Heinrich-Wild-Strasse 9435 Heerbrugg SWITZERLAND	

1.1 Photos – Equipment External

EUT Overview
STC for all ext / int and test set up photos

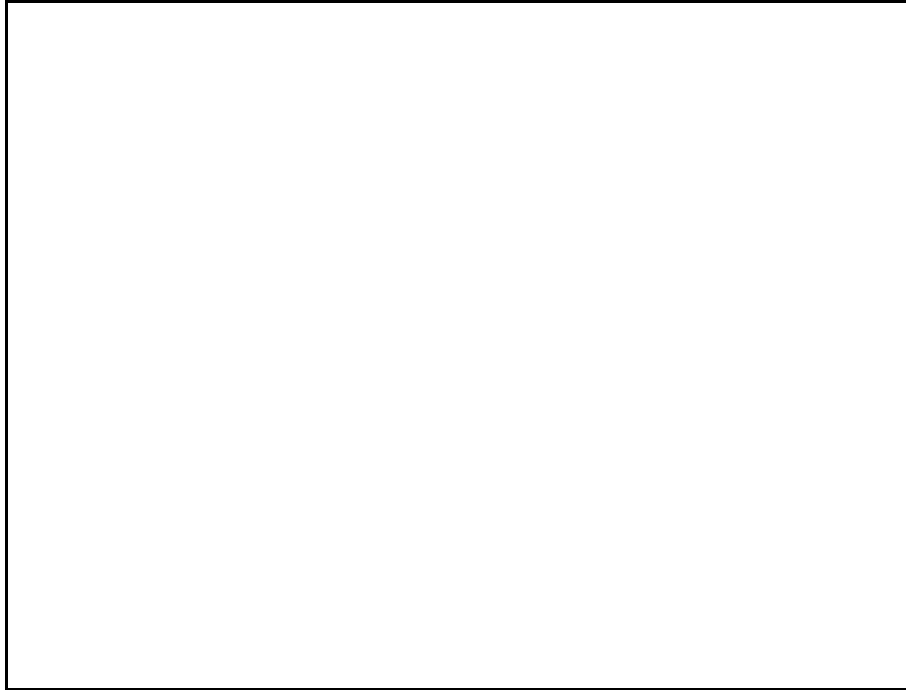
EUT Radiated Sample - Top View

EUT Radiated Sample - Bottom View

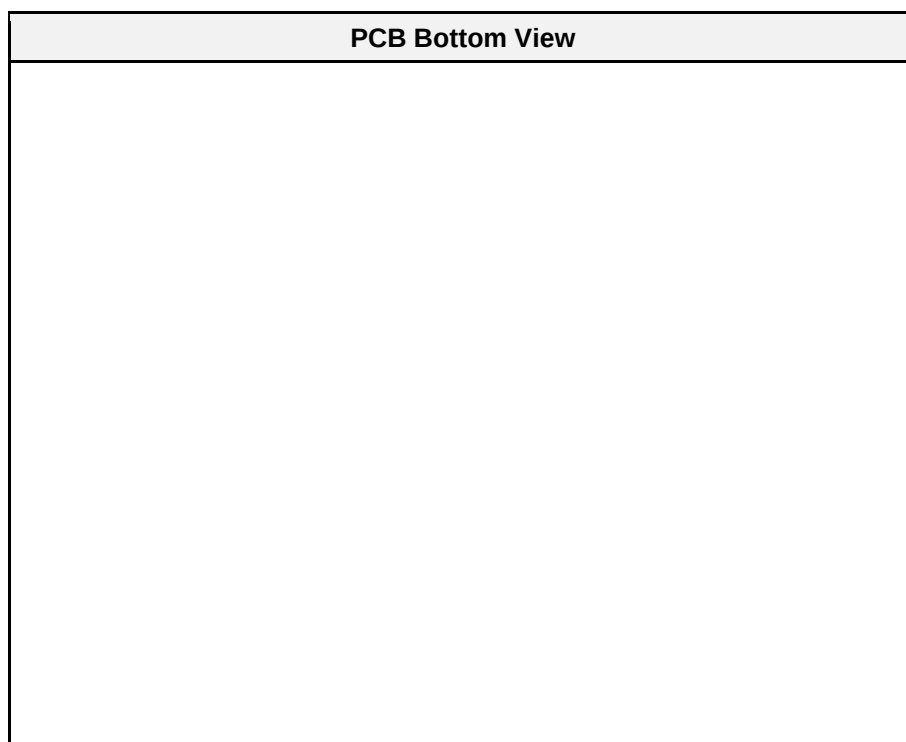
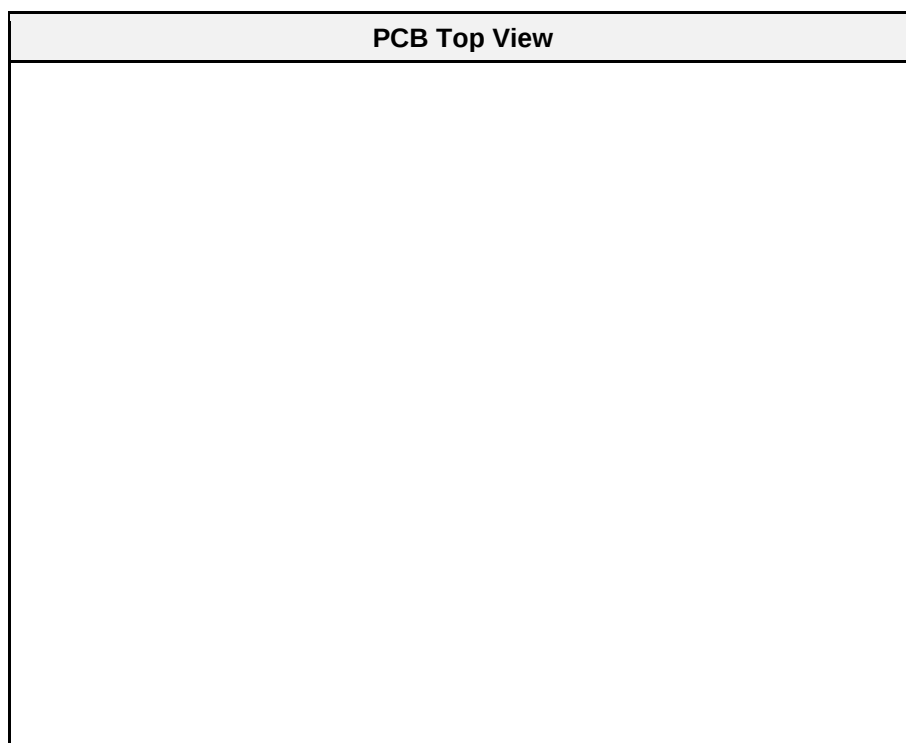


EUT Conducted Sample - Top View



EUT Conducted Sample - Bottom View

1.2 Photos – Equipment Internal



EUT Opened Housing

1.3 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Laptop	Lenovo	T61	for configuring test modes
AE	Disto Box	Leica	Velaro_V6	
SFT	-	HW-group	Hercules Setup utility by HW-group	
SFT	-	Eurofins	Bluetooth LE Direct Mode over UART	
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
SFT Note: The Equipment Under Test used an operating system with a test firmware. The driver for the tested technology was running in a manufacturer mode.				
Comment:				

1.4 Test Modes

Mode	Description
GFSK 1M	Mode = Transmit Modulation = GFSK 1 Mbit/s (uncoded) Spreading = None Duty cycle = 56% Payload 229 Byte
GFSK 2M	Mode = Transmit Modulation = GFSK 1 Mbit/s (uncoded) Spreading = None Duty cycle = 44% Payload 255 Byte
Receive	Mode = Receive
Comment:	

1.5 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx / Rx	0	2402
F2	Tx / Rx	19	2440
F3	Tx / Rx	39	2480

1.6 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 dBμV. 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:

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

Net:

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

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.

Field strength limit:

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

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

Example only for radiated field strength:

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

2 Result Summary

FCC 47 CFR Part 15C, ISED RSS-247				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
ISED RSS-Gen, Issue 5 A2 (section 6.7)	Occupied Bandwidth	ANSI C63.10-2013	N/R	Informational only
FCC § 15.247(a)(2) ISED RSS-247, Issue 3 (section 5.2)	6 dB Bandwidth	ANSI C63.10-2013	PASS	
FCC § 15.247(b) ISED RSS-247, Issue 3 (section 5.4)	Maximum peak conducted power	ANSI C63.10-2013	PASS	
FCC § 15.247(e) ISED RSS-247, Issue 3 (section 5.2)	Power spectral density	ANSI C63.10-2013	PASS	
FCC § 15.207 ISED RSS-247, Issue 3 (section 3.1)	AC power line conducted emissions	ANSI C63.10-2013	PASS	
FCC § 15.247(d) ISED RSS-247, Issue 3 (section 5.5)	Band edge compliance	ANSI C63.10-2013	PASS	
FCC § 15.247(d) ISED RSS-247, Issue 3 (section 5.5)	Conducted spurious emissions	ANSI C63.10-2013	PASS	
FCC § 15.247(d) FCC § 15.209 ISED RSS-Gen, Issue 5 A2 (section 6.13)	Transmitter radiated spurious emissions	ANSI C63.10-2013	PASS	
ISED RSS-247, Issue 3 (section 3.1)	Receiver radiated spurious emissions	ANSI C63.4-2014	PASS	
Comment: The Decision Rule is applied on the basis of ETSI TR 102 273 and ETSI TR 100 028. These standards provide guidance on how to calculate and apply measurement uncertainty whilst providing maximum uncertainties allowance. In all cases due consideration will be given to ILAC-G8:09/2019. Where a result is considered conditional in respect of its proximity to the limit line, the customer would be made aware of situation so that they can make an informed decision on how to proceed.				

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

3 Test Conditions and Results

3.1 Test Conditions and Results - Occupied bandwidth

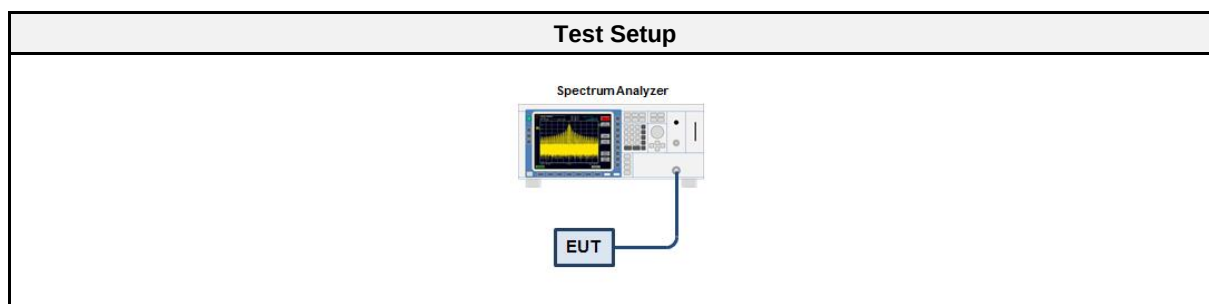
3.1.1 Information

Test Information	
Reference	ISED RSS-Gen, Issue 5 A2 (section 6.7)
Measurement Method	ANSI C63.10 6.9.3
Measurement Uncertainty	$\pm 1.26 \%$
Test Sample ID	43163
Operator	Wilfried Treffke
Date	2023-03-08

3.1.2 Limits

Limits
None (Informational only)

3.1.3 Setup



3.1.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 43	EF01631	2022-08	2023-08
Cable	Gigalan 1730	CAABB	EF00779	2022-03	2023-03

3.1.5 Procedure

Test Procedure
1. EUT transmitter is activated in test mode under normal conditions 2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the emission spectrum 3. The resolution bandwidth is set to the range of 1 % to 5 % of the occupied bandwidth 4. The occupied bandwidth is measured with the build-in analyzer function

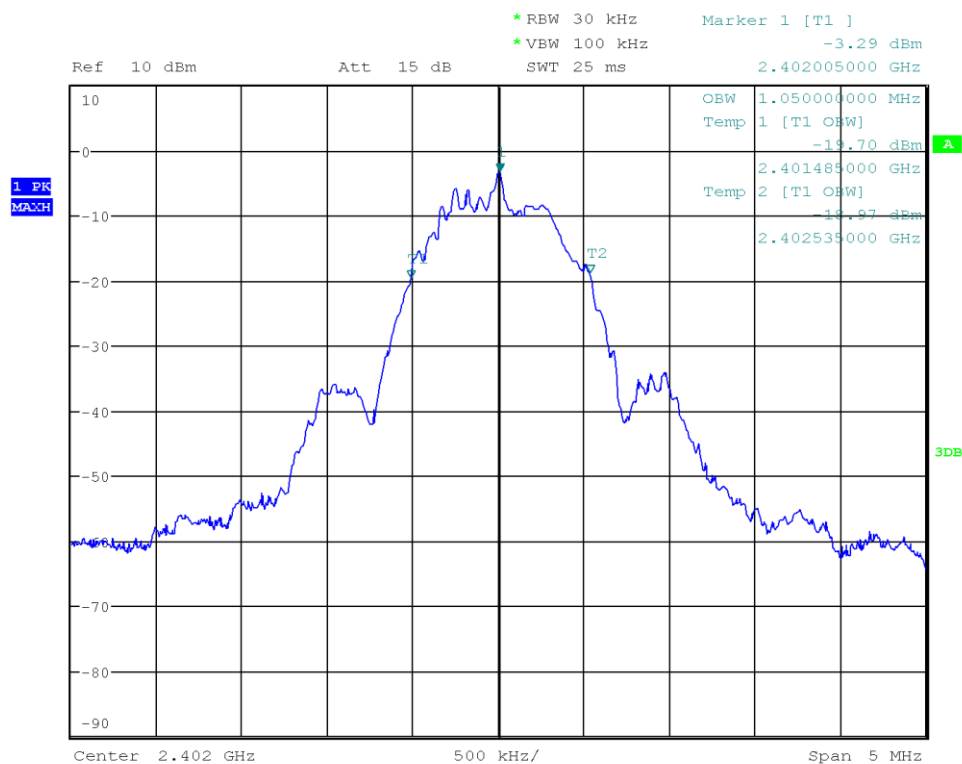
3.1.6 Results

Test Results – 1Mbps		
Mode	Frequency [MHz]	Bandwidth [MHz]
GFSK	2402	1.050
GFSK	2440	1.055
GFSK	2480	1.050

Test Results – 2Mbps		
Mode	Frequency [MHz]	Bandwidth [MHz]
GFSK	2402	2.045
GFSK	2440	2.050
GFSK	2480	2.050

Occupied Bandwidth

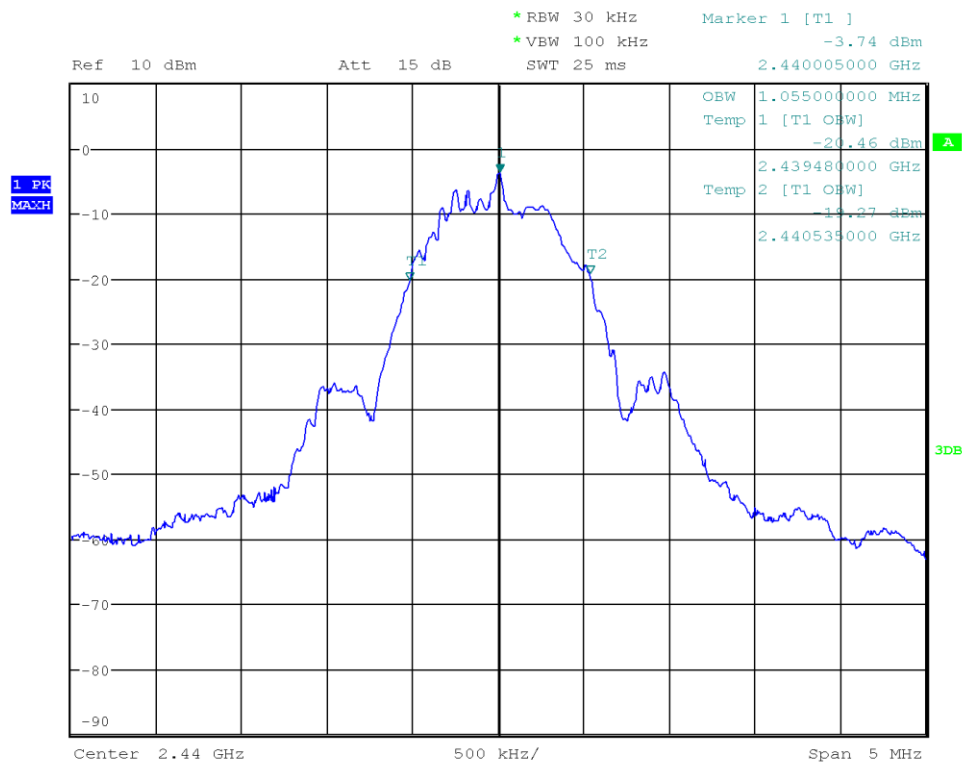
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Occupied Bandwidth [MHz]: 1.050



Date: 8.MAR.2023 15:16:45

Occupied Bandwidth

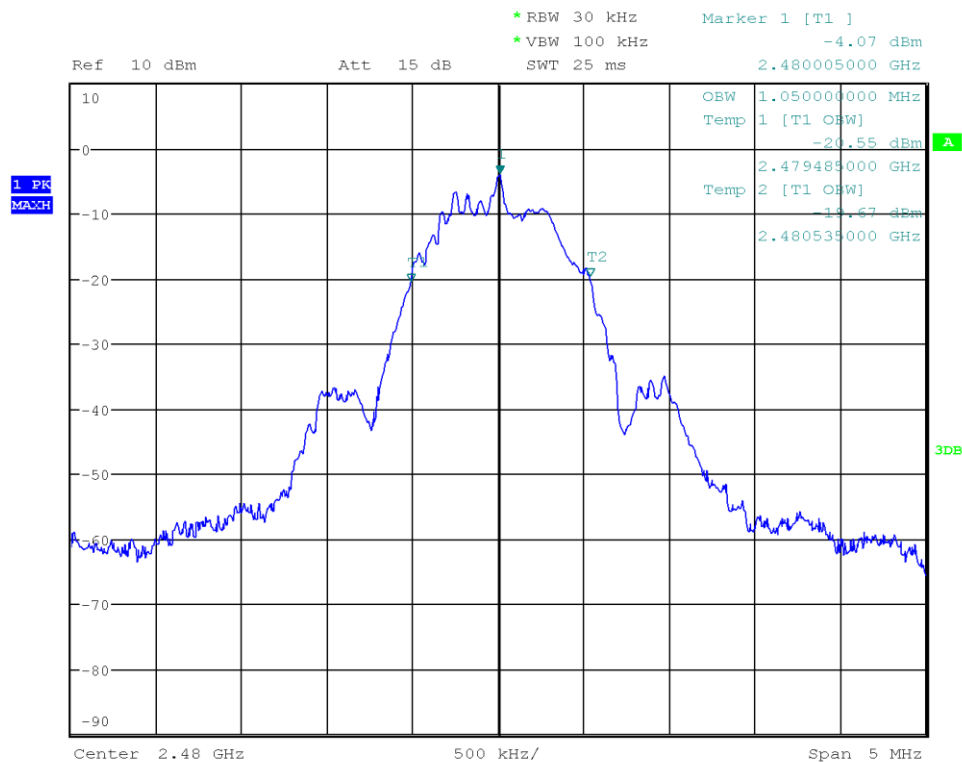
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Occupied Bandwidth [MHz]: 1.055



Date: 8.MAR.2023 15:34:31

Occupied Bandwidth

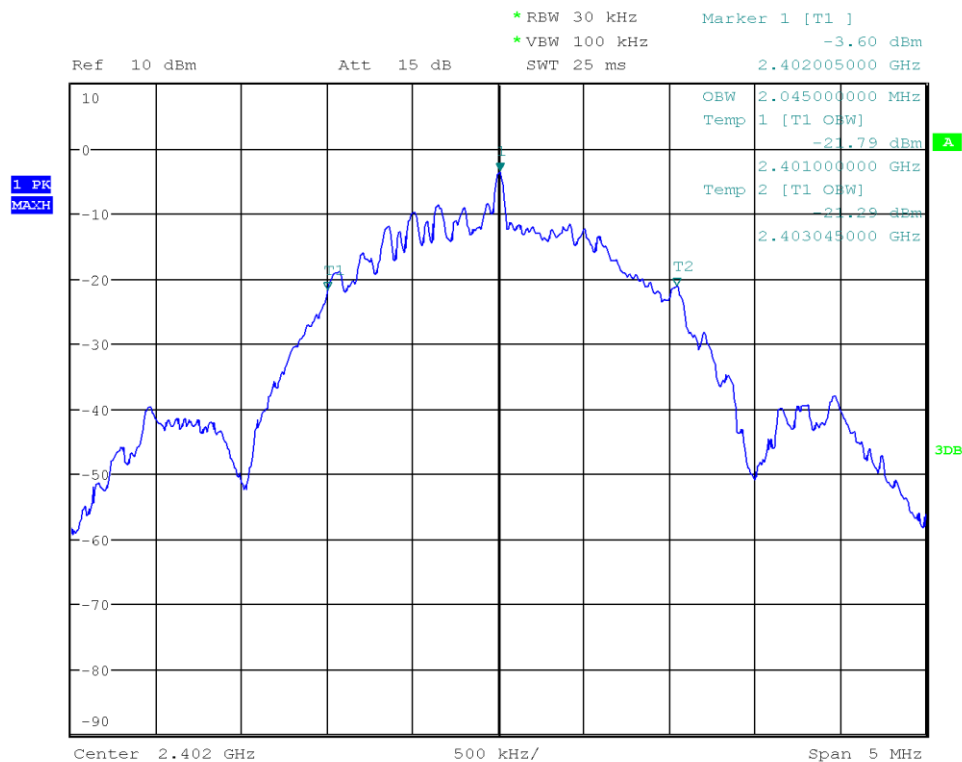
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Occupied Bandwidth [MHz]: 1.050



Date: 8.MAR.2023 15:35:41

Occupied Bandwidth

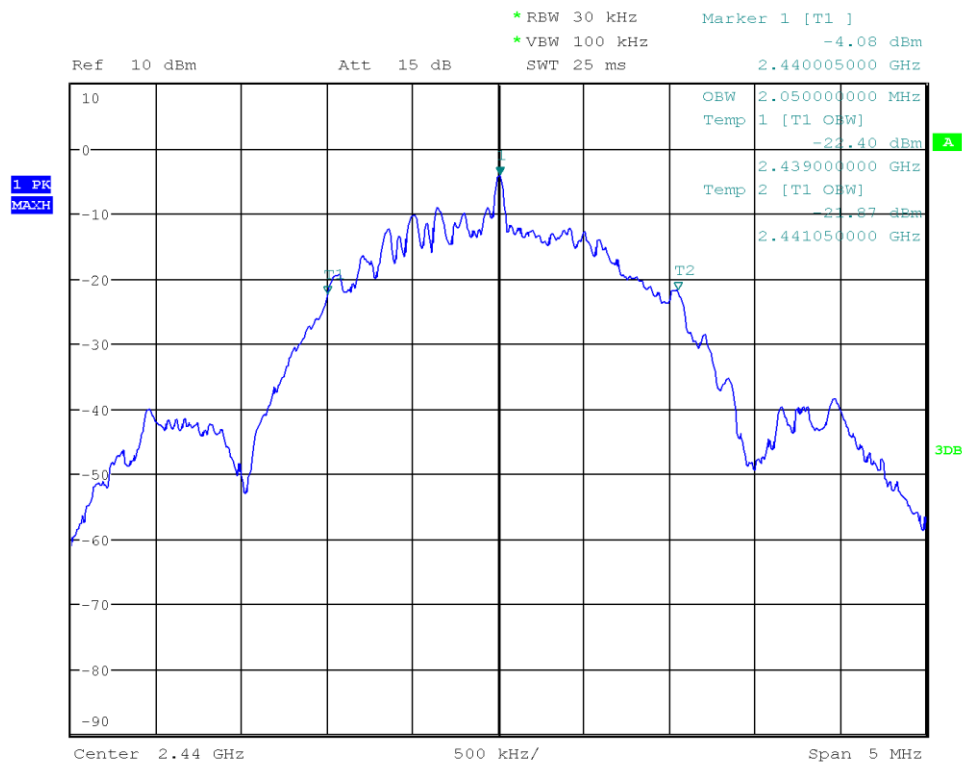
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Occupied Bandwidth [MHz]: 2.045



Date: 8.MAR.2023 15:38:19

Occupied Bandwidth

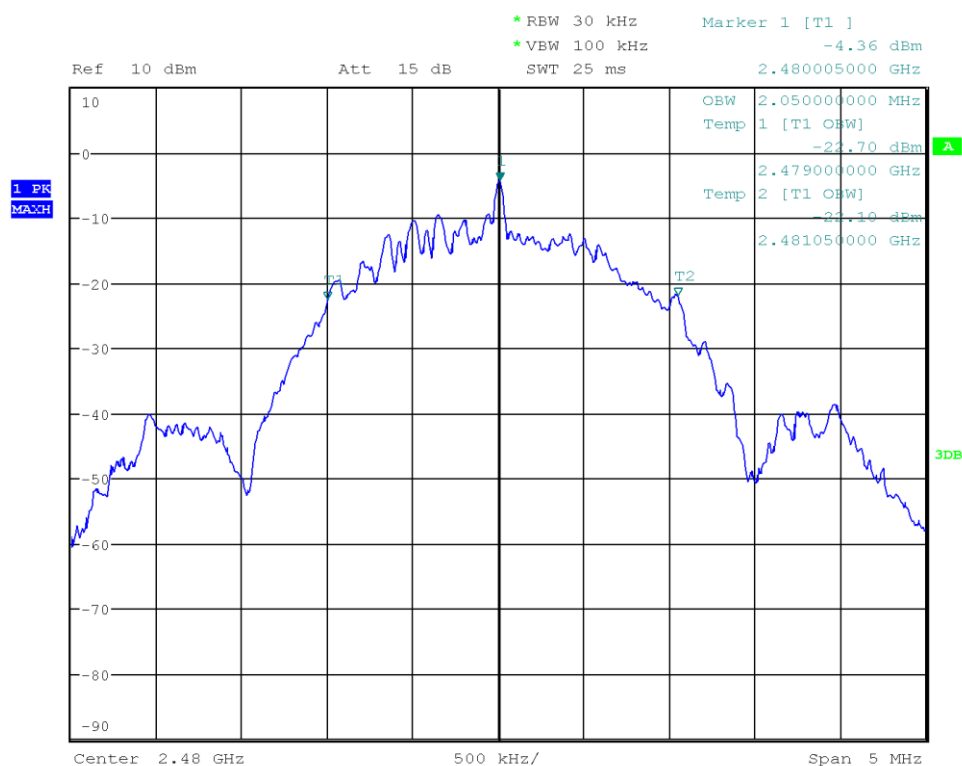
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Occupied Bandwidth [MHz]: 2.050



Date: 8.MAR.2023 15:39:21

Occupied Bandwidth

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Occupied Bandwidth [MHz]: 2.050



Date: 8.MAR.2023 15:40:23

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

3.2 Test Conditions and Results - AC powerline conducted emissions

3.2.1 Information

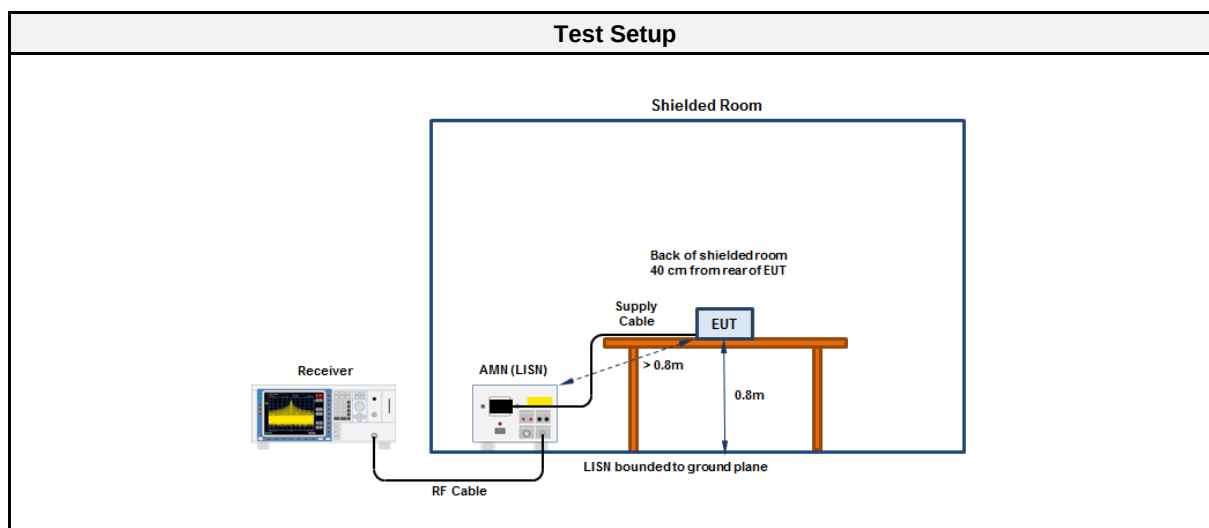
Test Information	
Reference	FCC § 15.207; ISED RSS-247, Issue 3 (section 3.1)
Measurement Method	ANSI C63.10 6.2
Measurement Uncertainty	± 3.82 dB
Operator	Odai Qawasmeh
Date	2023-04-03

3.2.2 Limits

Limits		
Frequency [MHz]	Quasi-Peak [dBμV]	Average [dBμV]
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5	56	46
5 - 30	60	50

* Limit decreases linearly with the logarithm of the frequency

3.2.3 Setup

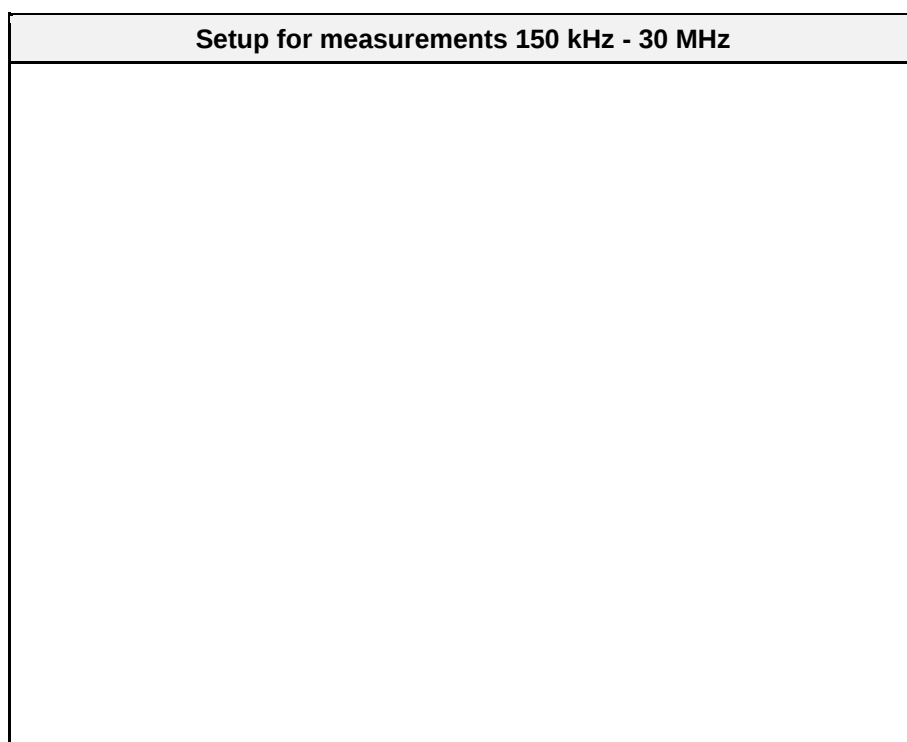
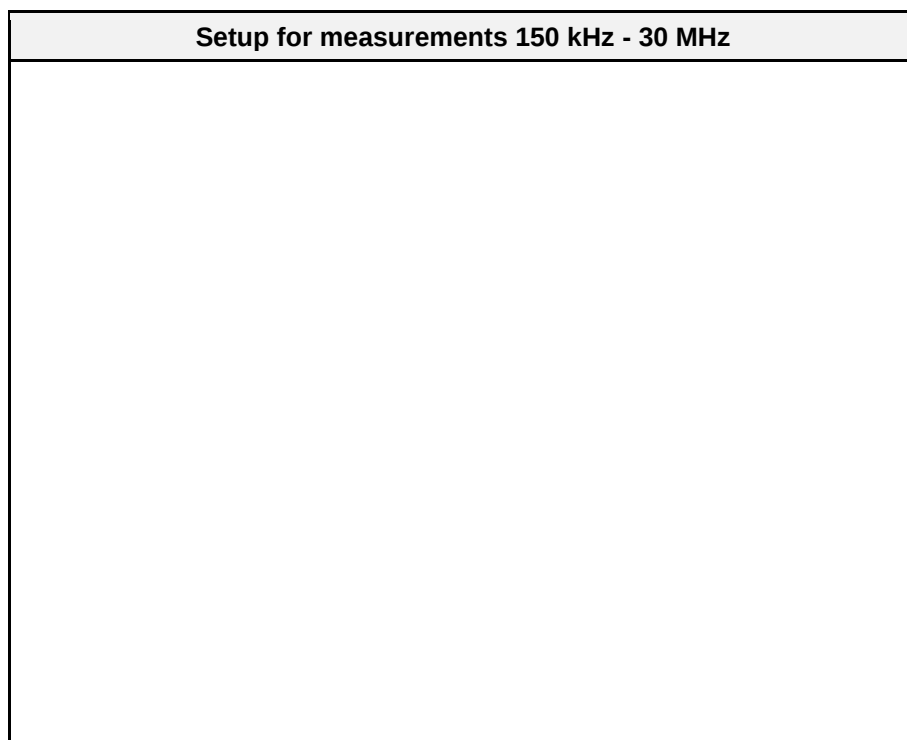


3.2.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Test Receiver	R&S	ESR7	EF00943	2022-07	2023-07
Pulse Limiter	R&S	ESH3-Z2	EF01222	2021-07	2023-07
LISN	R&S	ESH3-Z5	EF00036	2021-08	2023-08

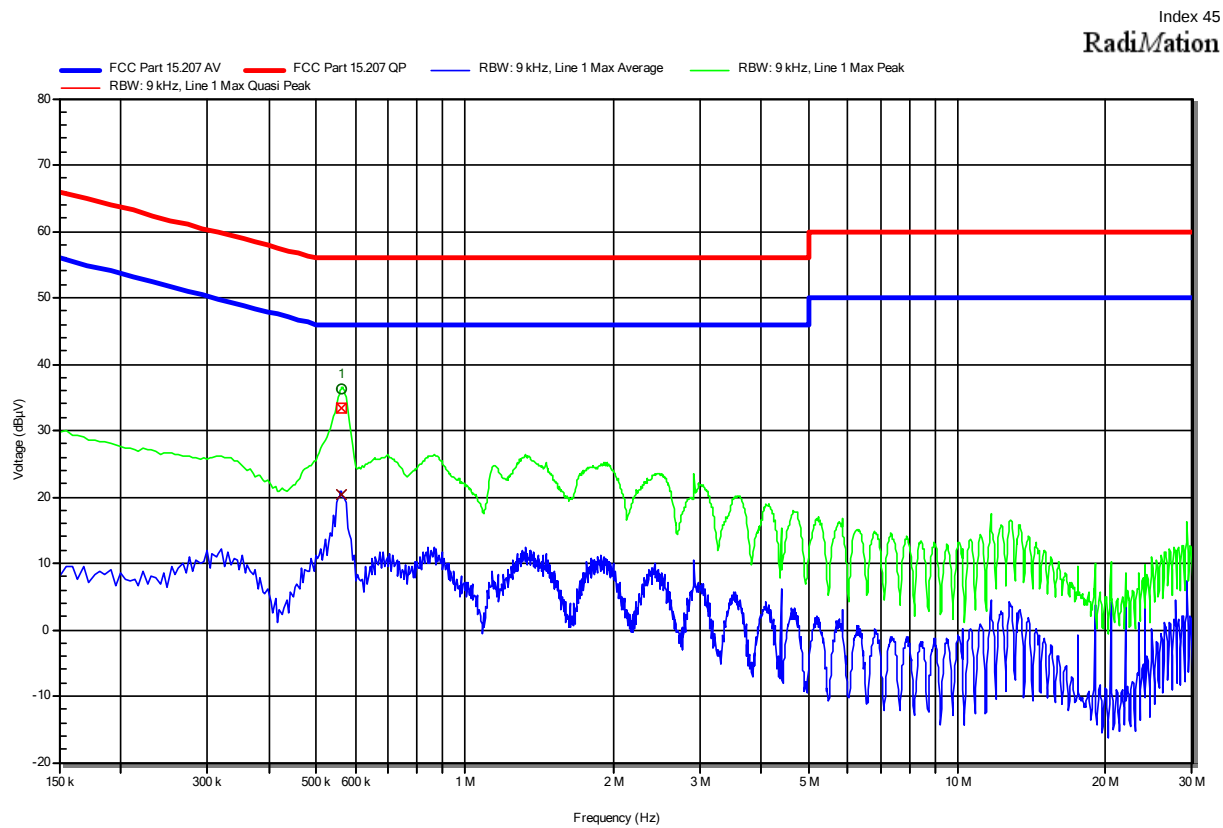
3.2.5 Setup Photos



Setup for measurements 150 kHz - 30 MHz

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

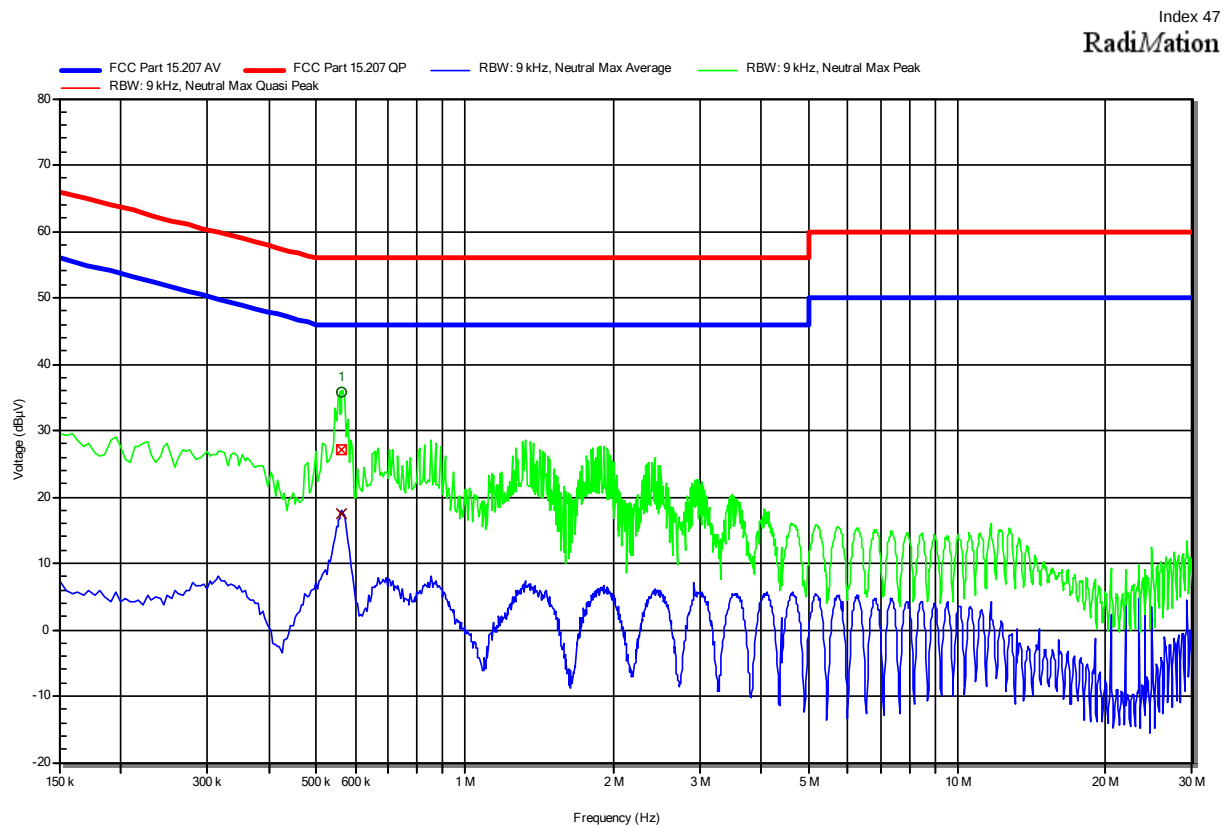
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2023-04-03
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 VDC
 LISN: ESH3-Z5 (L)
 Operational Mode & EUT Configuration: BLE, 2402 MHz, 1Mbps, PRBS9, 229 Bytes, DC 63%, Pmax
 Applied to Port: AC Mains
 Note 1:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	564 kHz	33.31 dBµV	56 dBµV	-22.69 dB	Pass	Line 1
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	564 kHz	20.43 dBµV	46 dBµV	-25.57 dB	Pass	Line 1

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2023-04-03
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 VDC
 LISN: ESH3-Z5 (N)
 Operational Mode & EUT Configuration: BLE, 2402 MHz, 1Mbps, PRBS9, 229 Bytes, DC 63%, Pmax
 Applied to Port: AC Mains
 Note 1:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	562.65 kHz	27.18 dBµV	56 dBµV	-28.82 dB	Pass	Neutral
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	562.65 kHz	17.56 dBµV	46 dBµV	-28.44 dB	Pass	Neutral

Test Report No.: G0M-2302-1878-TFC247BL-V03

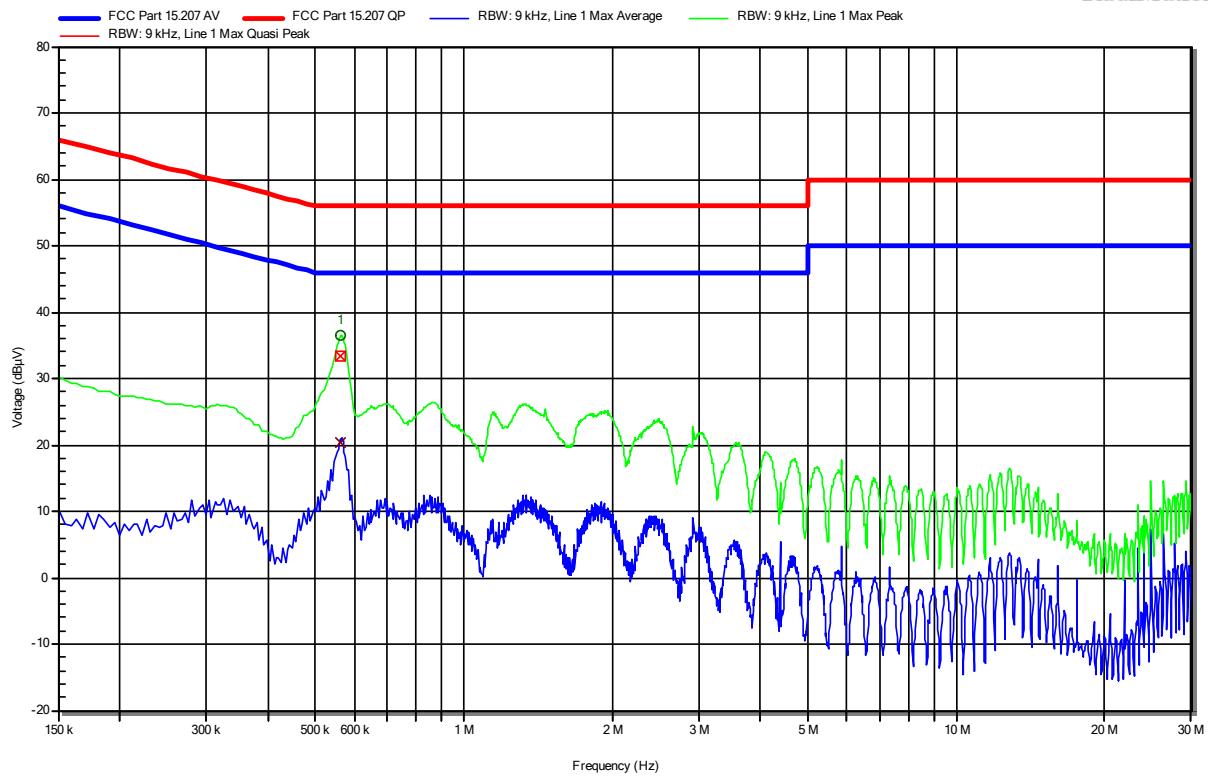
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2023-04-03
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 VDC
 LISN: ESH3-Z5 (L)
 Operational Mode & EUT Configuration: BLE, 2402 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Applied to Port: AC Mains
 Note 1:

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RadiMation



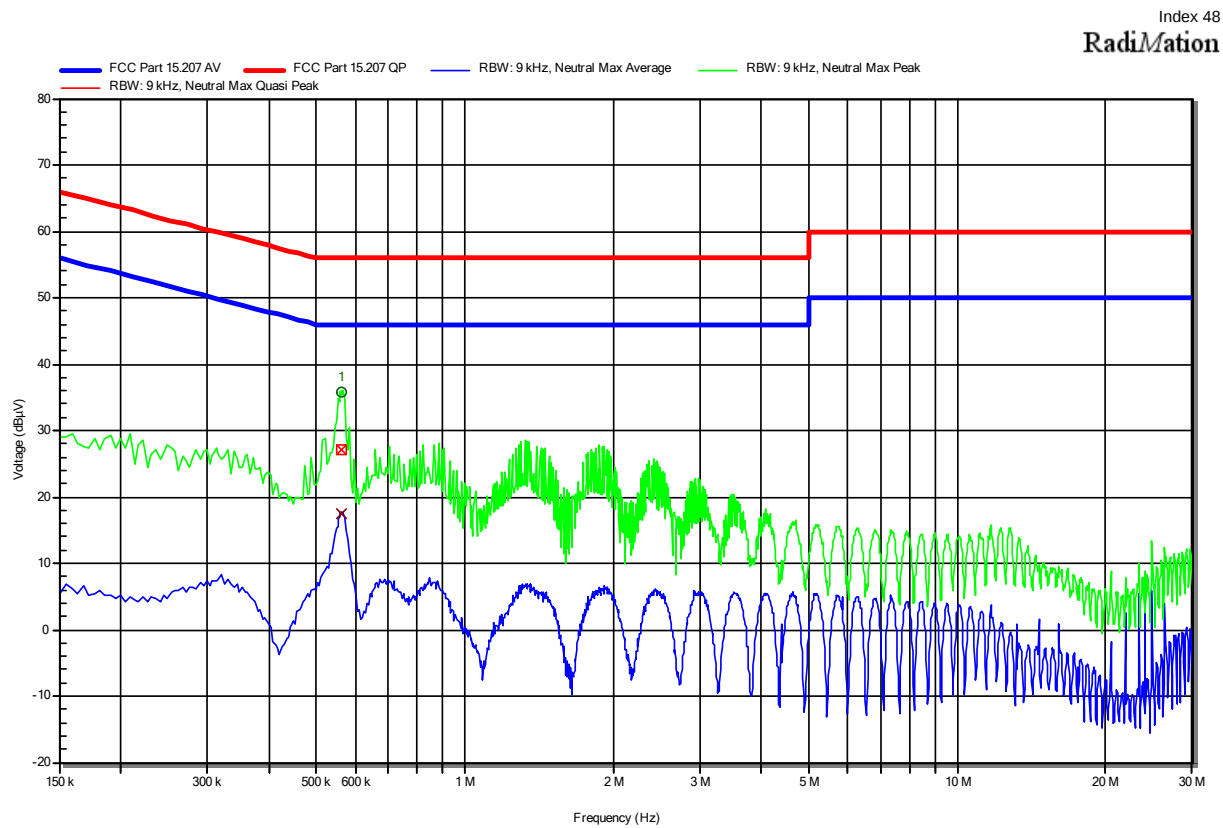
Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	563.55 kHz	33.36 dBµV	56 dBµV	-22.64 dB	Pass	Line 1
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	563.55 kHz	20.47 dBµV	46 dBµV	-25.53 dB	Pass	Line 1

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Conducted emissions at the mains power port according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2023-04-03
 Operating Conditions: ambient temperature: 23 °Celsius
 power input: 3.6 VDC
 LISN: ESH3-Z5 (N)
 Operational Mode & EUT Configuration: BLE, 2402 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Applied to Port: AC Mains
 Note 1:



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	560.85 kHz	27.17 dBµV	56 dBµV	-28.83 dB	Pass	Neutral
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	560.85 kHz	17.43 dBµV	46 dBµV	-28.57 dB	Pass	Neutral

Test Report No.: G0M-2302-1878-TFC247BL-V03

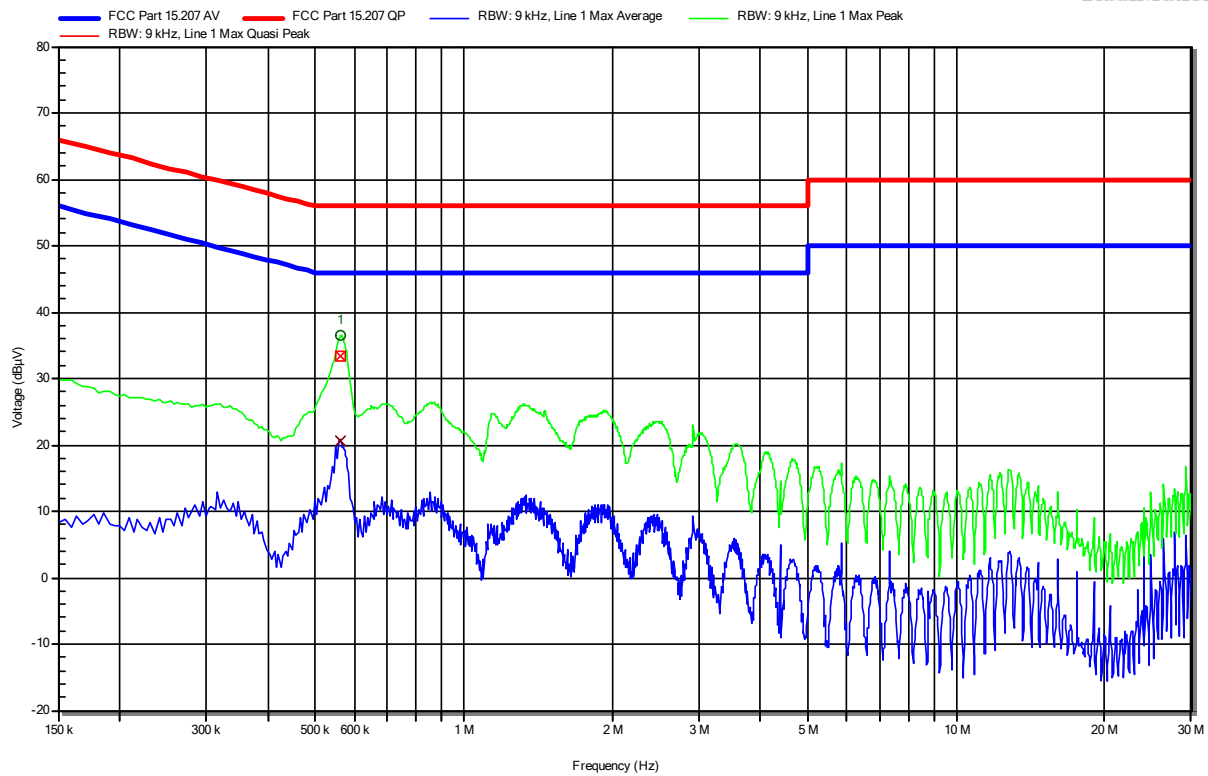
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted emissions at the mains power port according to RSS-247 Issue 3, RSS-Gen Issue 5

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2023-04-03
 Operating Conditions: ambient temperature: 21 °Celsius
 power input: 3.6 VDC
 LISN: ESH3-Z5 (L)
 Operational Mode & EUT Configuration: BLE, 2440 MHz
 Applied to Port: AC Mains
 Note 1:

Index 31

RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	564 kHz	33.36 dBµV	56 dBµV	-22.64 dB	Pass	Line 1
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	564 kHz	20.5 dBµV	46 dBµV	-25.5 dB	Pass	Line 1

Test Report No.: G0M-2302-1878-TFC247BL-V03

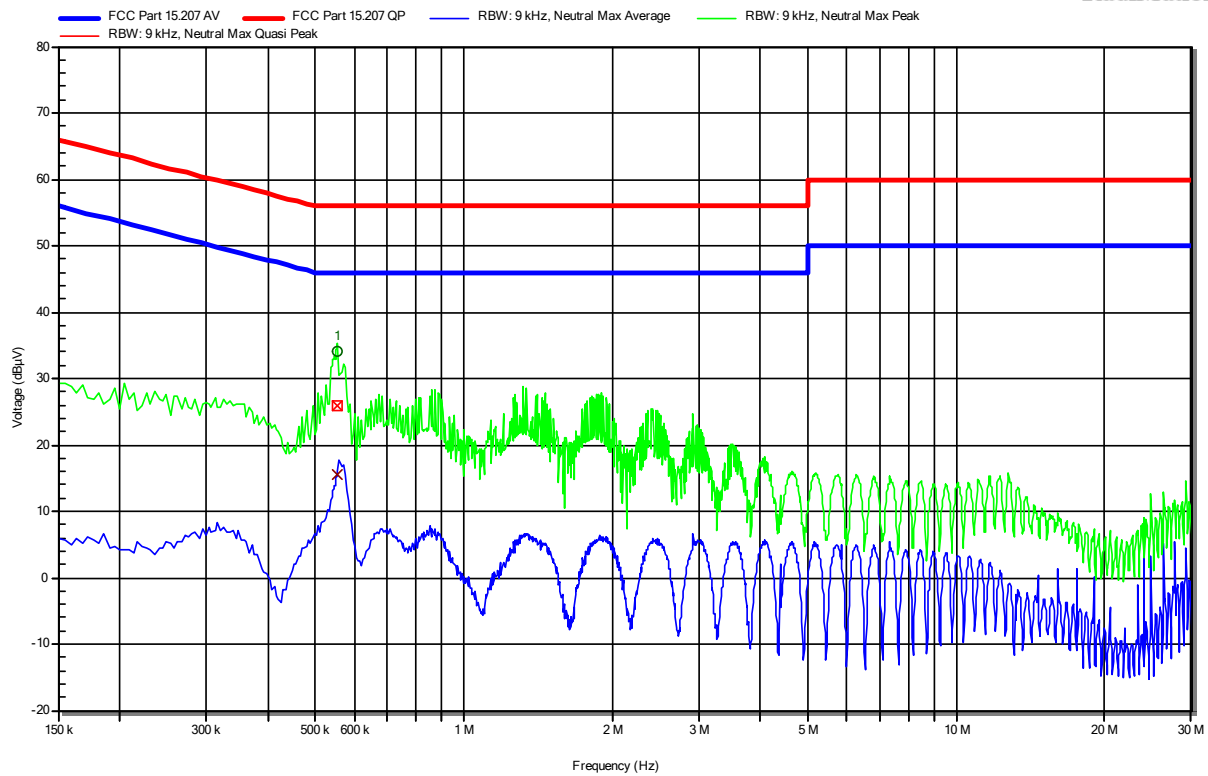
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted emissions at the mains power port according to RSS-247 Issue 3, RSS-Gen Issue 5

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Test Date: 2023-04-03
 Operating Conditions: ambient temperature: 21 °Celsius
 power input: 3.6 VDC
 LISN: ESH3-Z5 (N)
 Operational Mode & EUT Configuration: BLE, 2440 MHz
 Applied to Port: AC Mains
 Note 1:

Index 32

RadiMation



Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	LISN
1	552.75 kHz	25.83 dBμV	56 dBμV	-30.17 dB	Pass	Neutral
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status	LISN
1	552.75 kHz	15.47 dBμV	46 dBμV	-30.53 dB	Pass	Neutral

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

3.3 Test Conditions and Results - 6 dB bandwidth

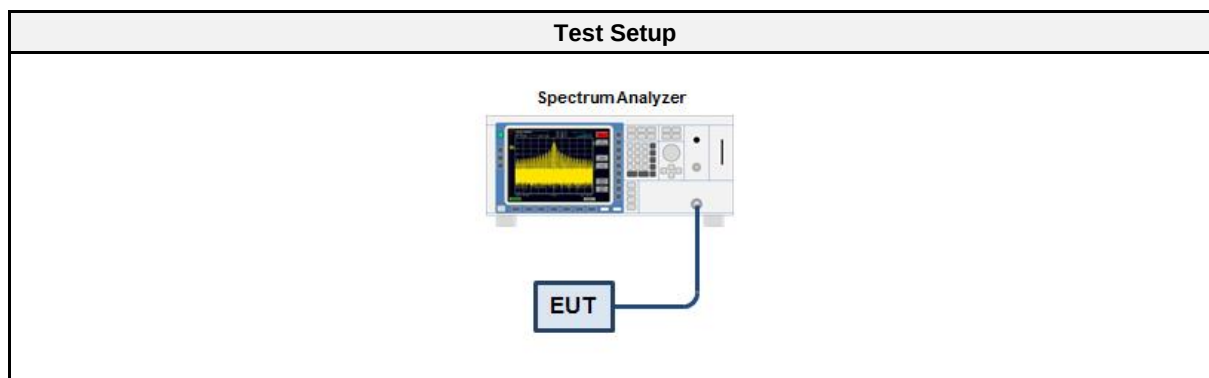
3.3.1 Information

Test Information	
Reference	FCC § 15.247(a)(2); ISED RSS-247, Issue 3 (section 5.2)
Measurement Method	ANSI C63.10 11.8
Measurement Uncertainty	$\pm 1.26 \%$
Operator	Wilfried Treffke
Date	2023-03-08

3.3.2 Limits

Limits
$\geq 500\text{kHz}$

3.3.3 Setup



3.3.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 43	EF01631	2022-08	2023-08
Cable	Gigalan 1730	CAABB	EF00779	2022-03	2023-03

3.3.5 Procedure

Test Procedure
1. EUT set to test mode 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold and RBW is set to 100 kHz 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak 6. Marker on envelope of spectrum is set to level of -6 dB to the right of the peak 7. 6 dB Bandwidth is determined by marker frequency separation

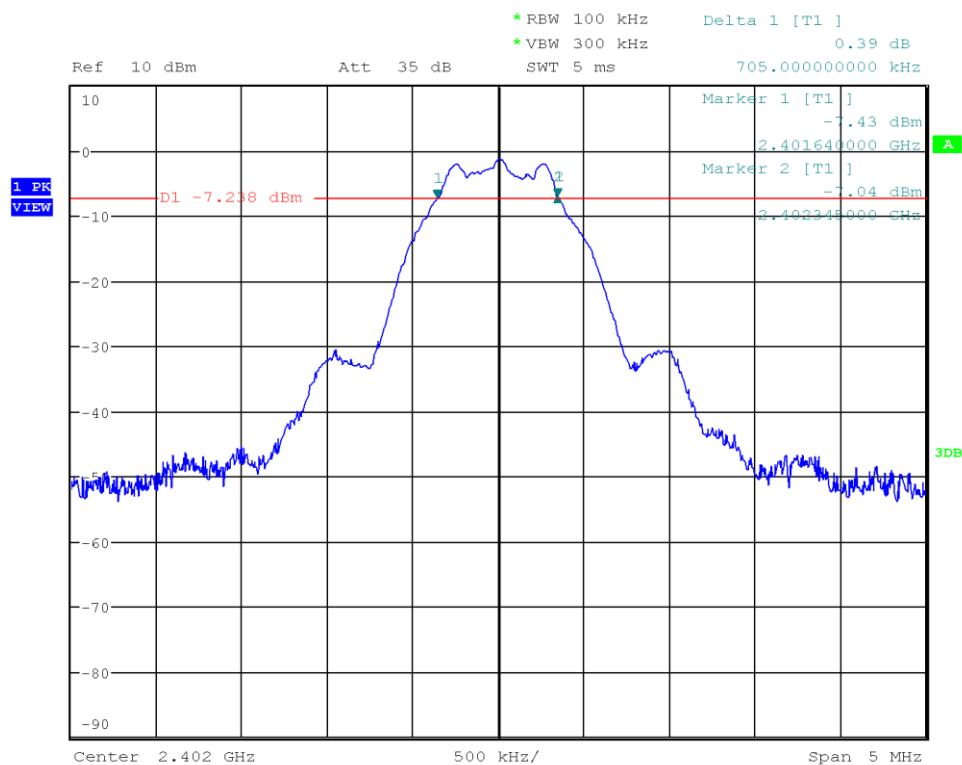
3.3.6 Results

Test Results – 1 Mbps				
Mode	Frequency [MHz]	Bandwidth [kHz]	Limit [kHz]	Verdict
GFSK	2402	705	500	PASS
GFSK	2440	715	500	PASS
GFSK	2480	700	500	PASS

Test Results – 2 Mbps				
Mode	Frequency [MHz]	Bandwidth [kHz]	Limit [kHz]	Verdict
GFSK	2402	1145	500	PASS
GFSK	2440	1150	500	PASS
GFSK	2480	1145	500	PASS

DTS (6 dB) Bandwidth

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Lower Frequency [MHz]: 2401.640
 Upper Frequency [MHz]: 2402.345
 6 dB Bandwidth [kHz]: 705



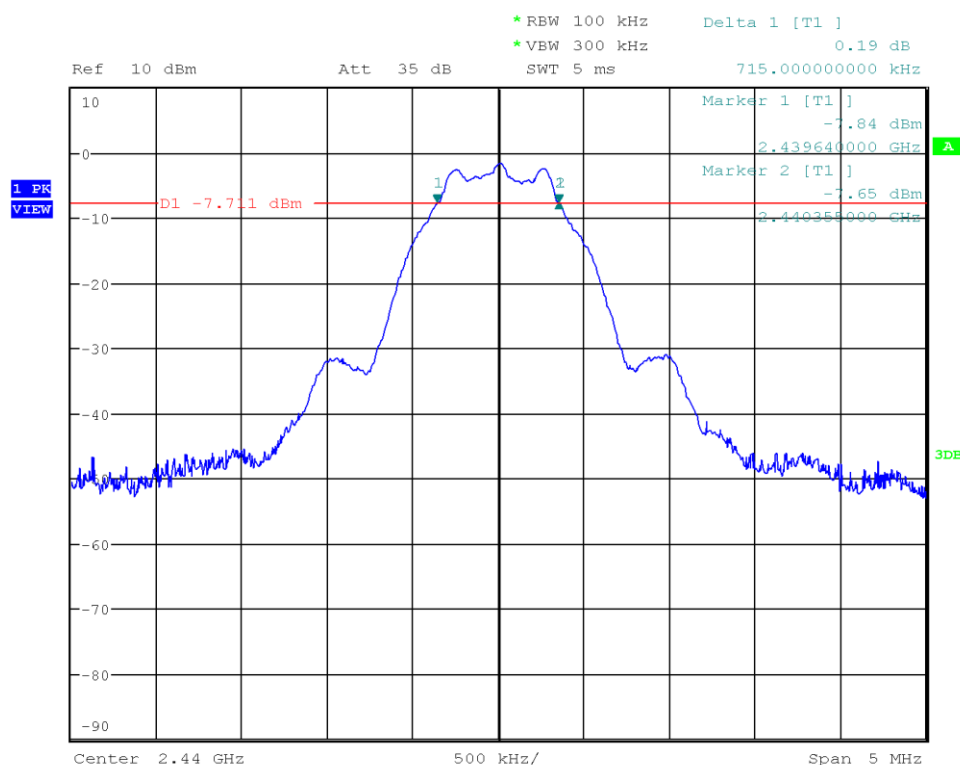
Date: 8.MAR.2023 15:44:21

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

DTS (6 dB) Bandwidth

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Lower Frequency [MHz]: 2439.640
 Upper Frequency [MHz]: 2440.355
 6 dB Bandwidth [kHz]: 715



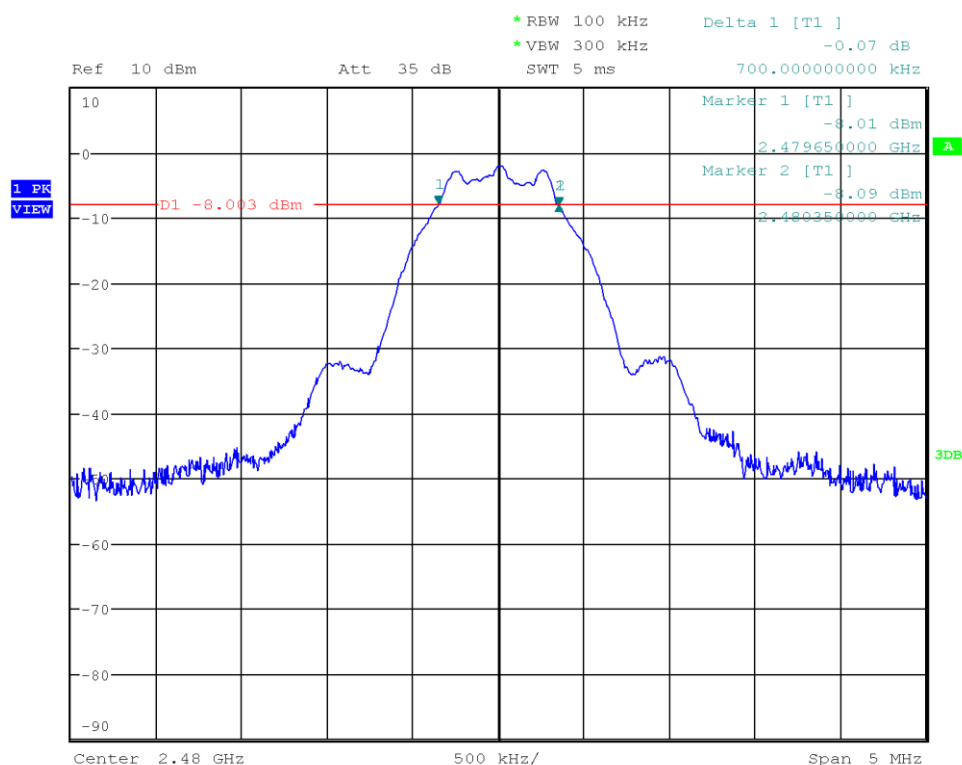
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

DTS (6 dB) Bandwidth

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Lower Frequency [MHz]: 2479.650
 Upper Frequency [MHz]: 2480.350
 6 dB Bandwidth [kHz]: 700



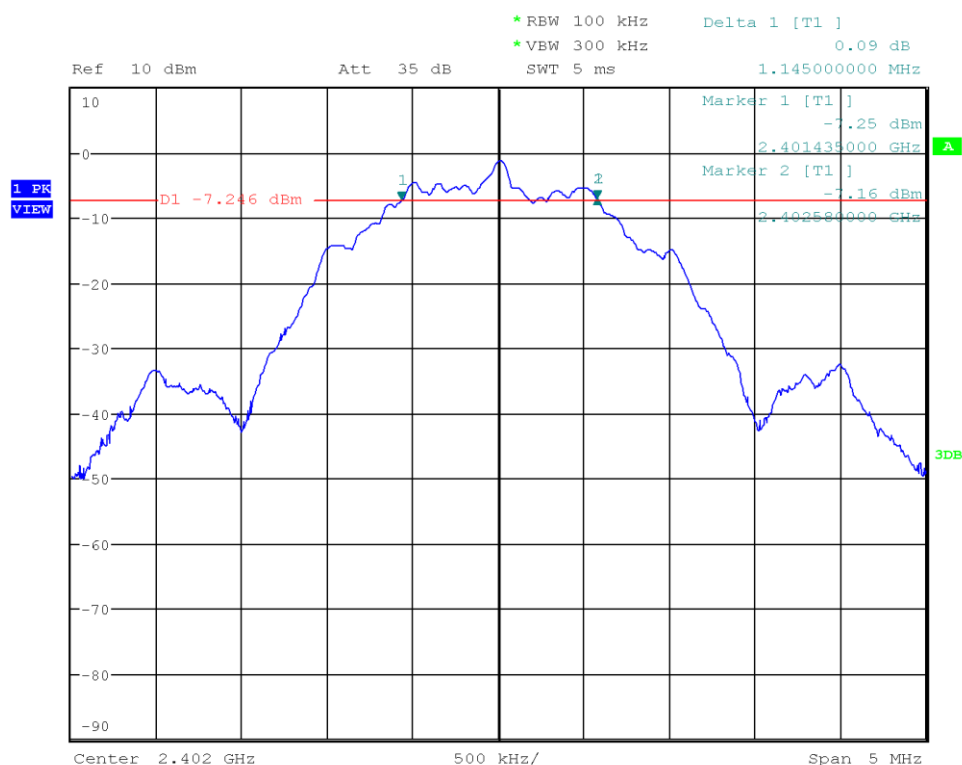
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

DTS (6 dB) Bandwidth

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Lower Frequency [MHz]: 2401.435
 Upper Frequency [MHz]: 2402.580
 6 dB Bandwidth [kHz]: 1145



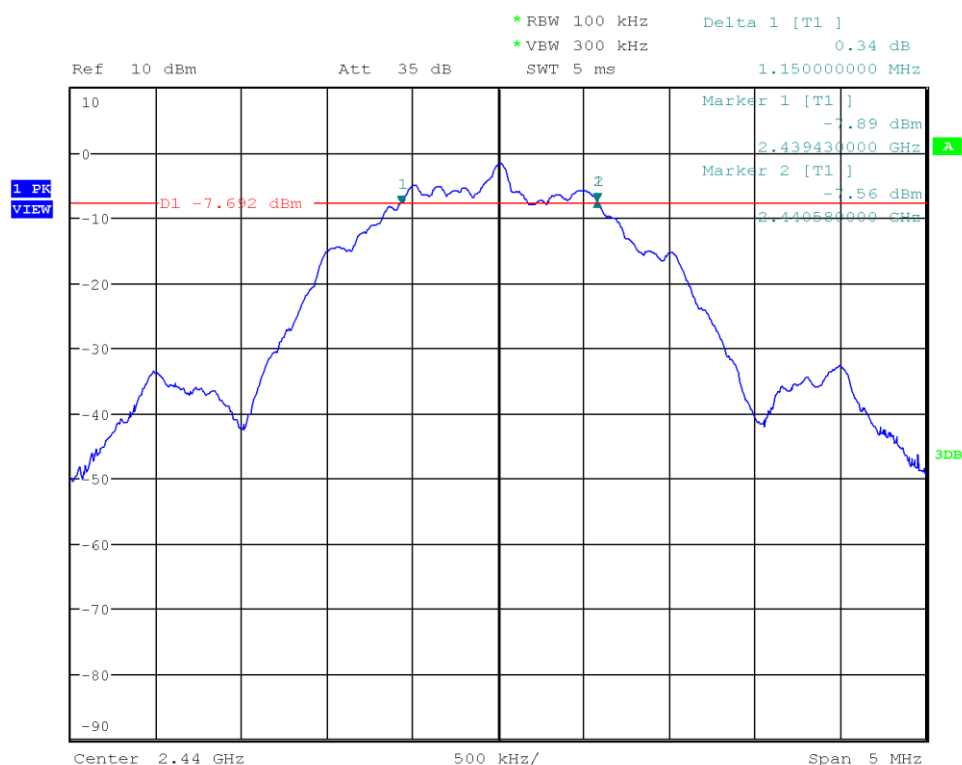
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

DTS (6 dB) Bandwidth

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Lower Frequency [MHz]: 2439.430
 Upper Frequency [MHz]: 2440.580
 6 dB Bandwidth [kHz]: 1150



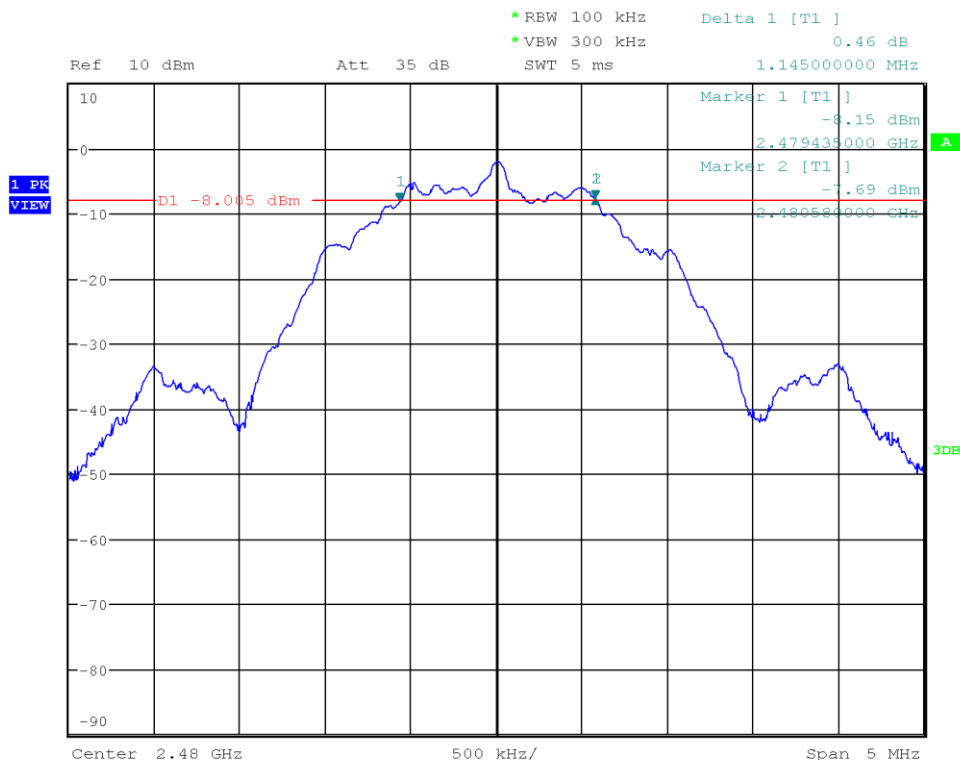
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

DTS (6 dB) Bandwidth

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.8.1 Option 1
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Lower Frequency [MHz]: 2479.435
 Upper Frequency [MHz]: 2480.580
 6 dB Bandwidth [kHz]: 1145



Date: 8.MAR.2023 15:51:05

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

3.4 Test Conditions and Results - Maximum peak conducted output power

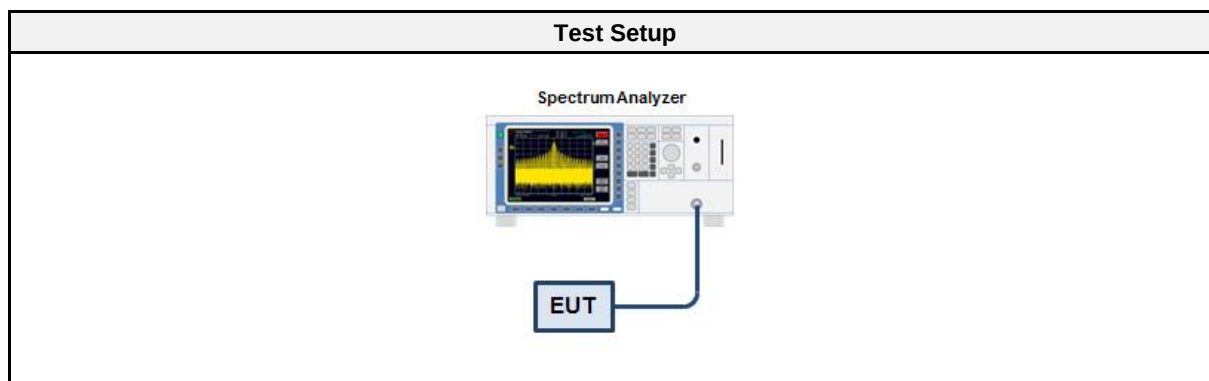
3.4.1 Information

Test Information	
Reference	FCC § 15.247(b); ISSED RSS-247, Issue 3 (section 5.4)
Measurement Method	ANSI C63.10 11.9.1
Measurement Uncertainty	± 2.86 dB
Operator	Wilfried Treffke
Date	2023-03-08

3.4.2 Limits

Limits
1 W (30 dBm)
The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
ISED: The maximum peak conducted output power shall not exceed 1W. The e.i.r.p. shall not exceed 4 W.

3.4.3 Setup



3.4.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 43	EF01631	2022-08	2023-08
Cable	Gigalan 1730	CAABB	EF00779	2022-03	2023-03

3.4.5 Procedure

Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Analyzer resolution bandwidth is set ≥ DTS bandwidth 3. Detector set to peak and max hold 4. Sweep time is set to auto 5. After the trace has stabilized a marker is set to peak of envelope

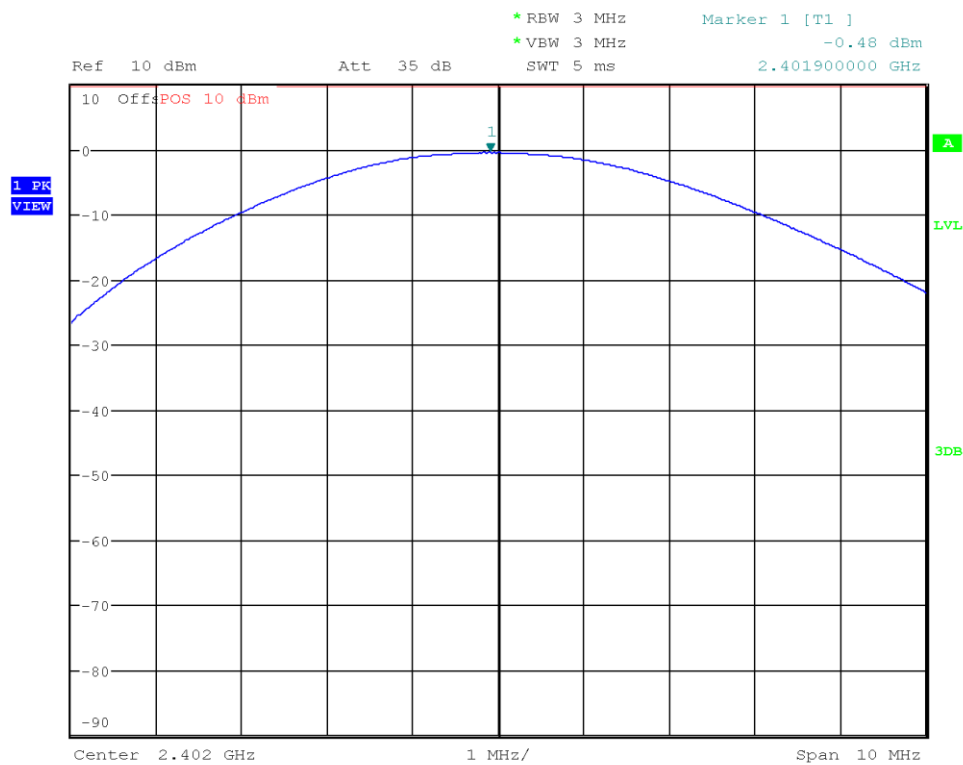
3.4.6 Results

Test Results – 1 Mbps							
Channel [MHz]	Conducted Power [dBm]	Conducted Power [W]	Conducted Limit [W]	EIRP Power [dBm]	EIRP Power [W]	EIRP Limit [W]	Verdict
2402	-0.476	0.00090	1.0	0.024	0.00100	4.0	PASS
2440	-0.879	0.00081	1.0	-0.379	0.00091	4.0	PASS
2480	-1.206	0.00076	1.0	-0.706	0.00084	4.0	PASS

Test Results – 2 Mbps							
Channel [MHz]	Conducted Power [dBm]	Conducted Power [W]	Conducted Limit [W]	EIRP Power [dBm]	EIRP Power [W]	EIRP Limit [W]	Verdict
2402	-0.453	0.00090	1.0	0.047	0.00101	4.0	PASS
2440	-0.898	0.00081	1.0	-0.398	0.00091	4.0	PASS
2480	-1.148	0.00076	1.0	-0.648	0.00086	4.0	PASS

Peak Conducted Output Power

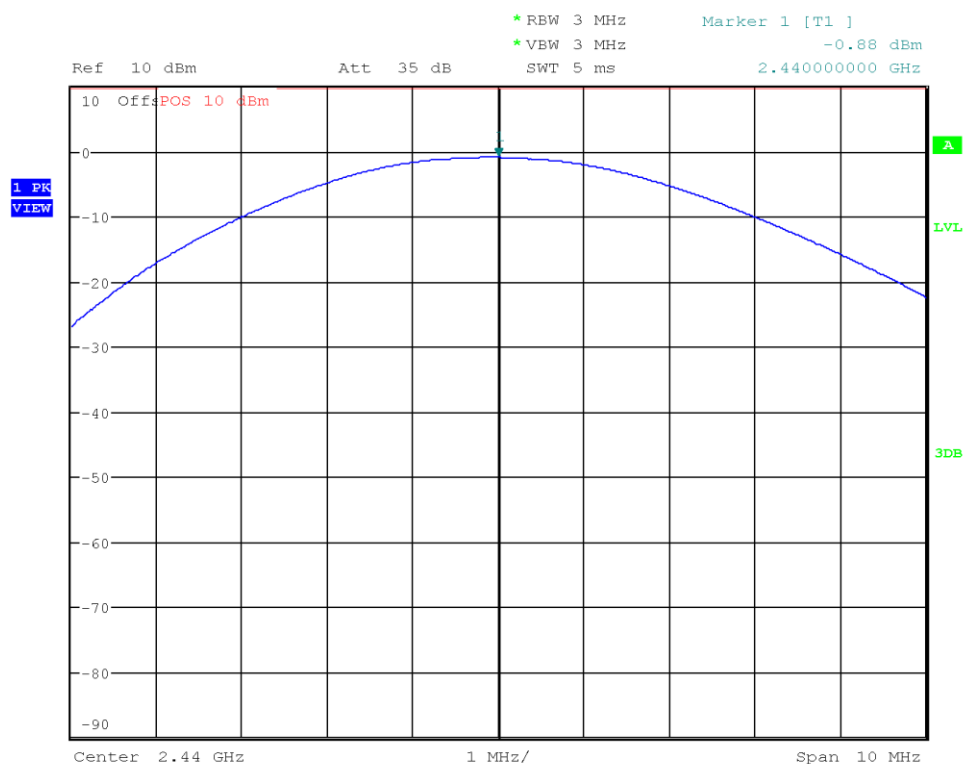
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Peak Power [dBm]: -0.476
 Peak Power [W]: 0.0009



Date: 8.MAR.2023 15:55:38

Peak Conducted Output Power

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Peak Power [dBm]: -0.879
 Peak Power [W]: 0.0008



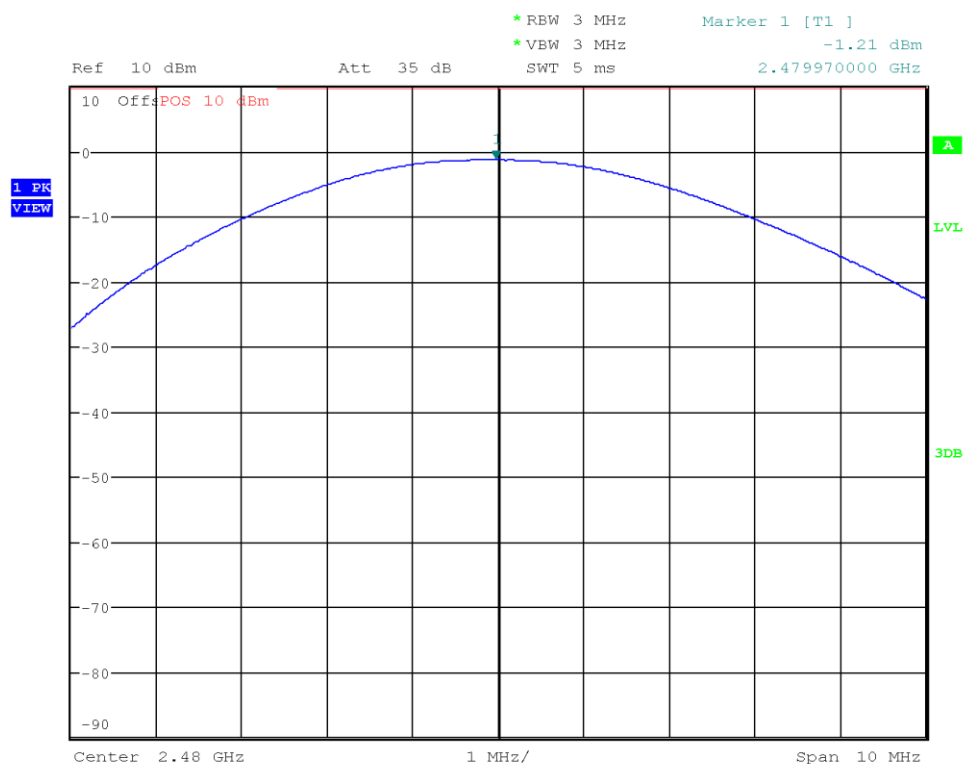
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Peak Conducted Output Power

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Peak Power [dBm]: -1.206
 Peak Power [W]: 0.0008



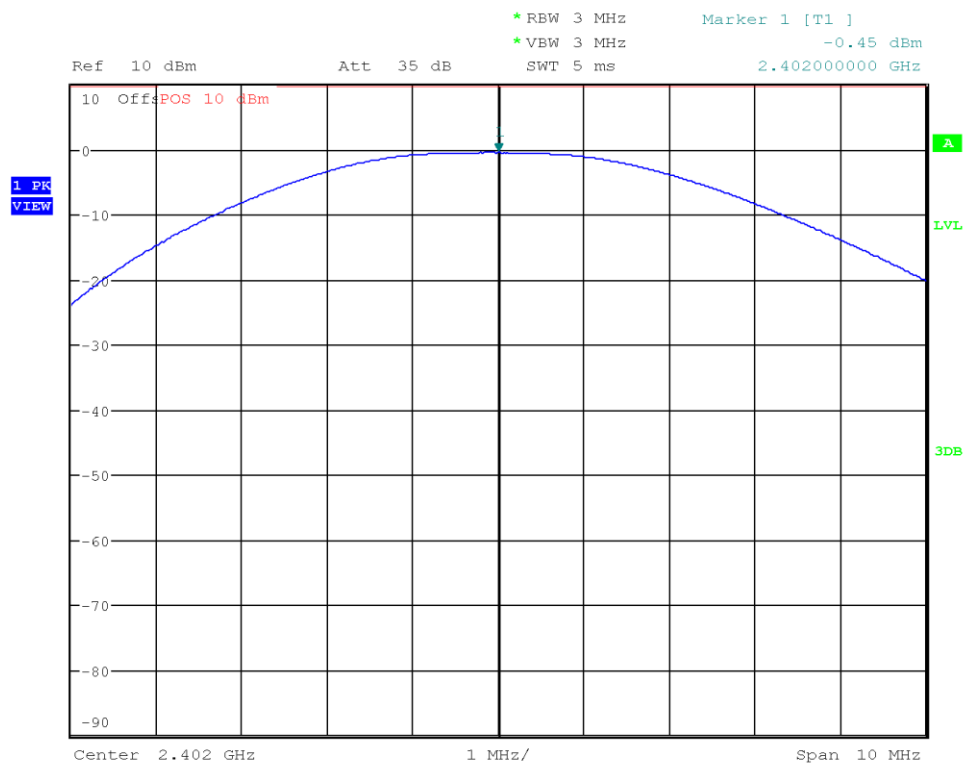
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Peak Conducted Output Power

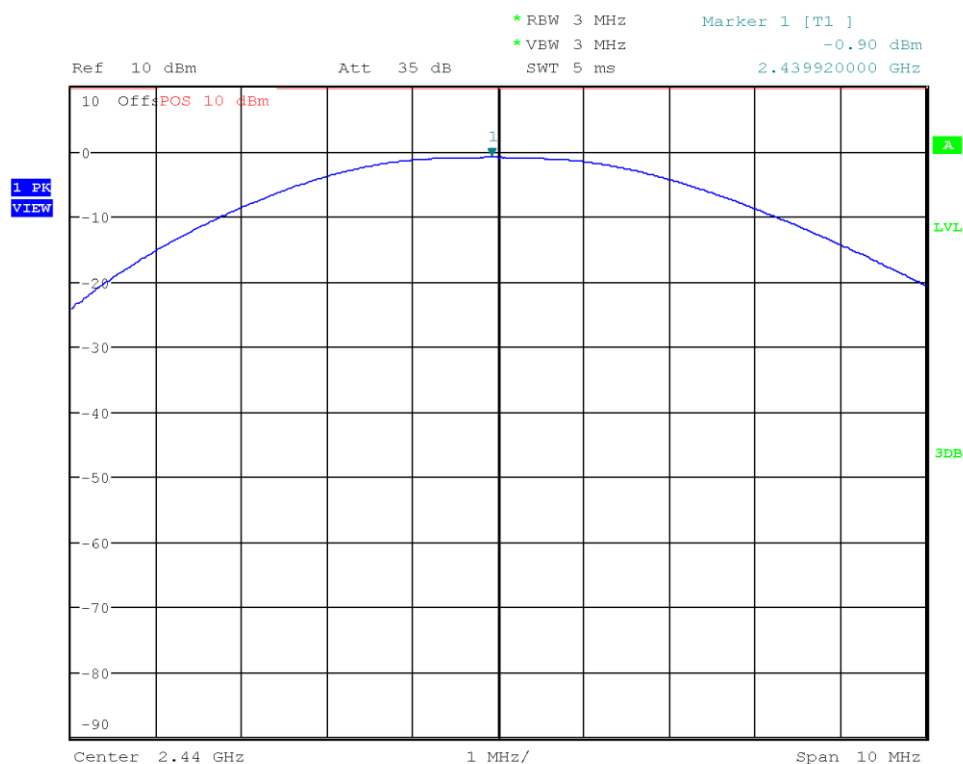
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Peak Power [dBm]: -0.453
 Peak Power [W]: 0.0009



Date: 8.MAR.2023 16:00:55

Peak Conducted Output Power

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Peak Power [dBm]: -0.898
 Peak Power [W]: 0.0008



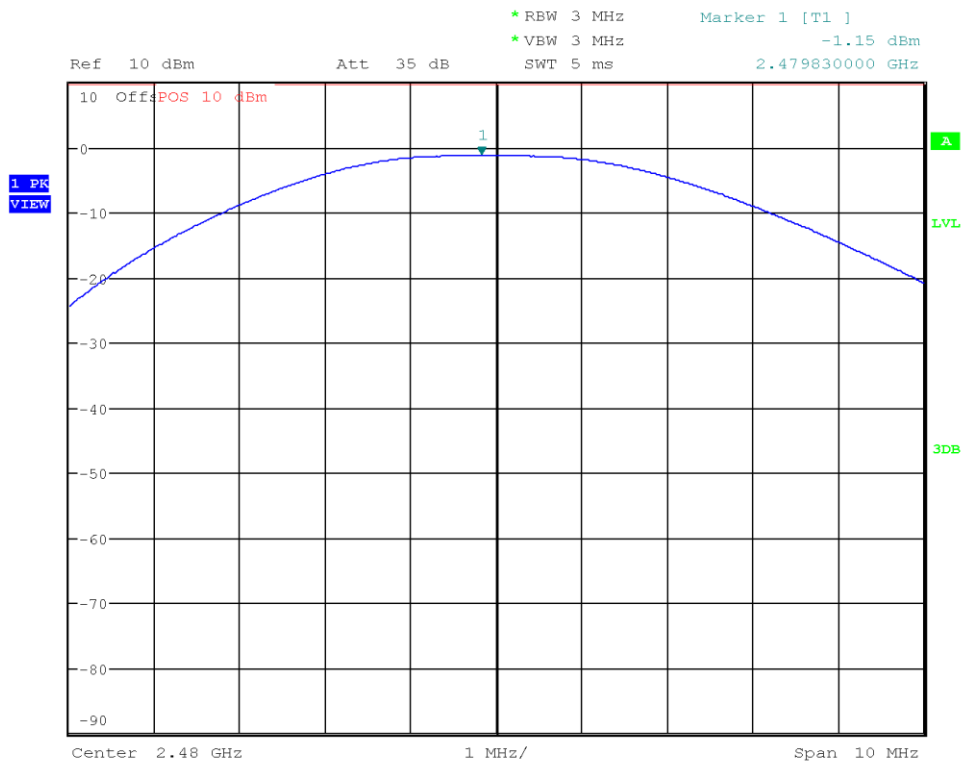
Date: 8.MAR.2023 16:02:05

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Peak Conducted Output Power

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.9.1.1
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Peak Power [dBm]: -1.148
 Peak Power [W]: 0.0008



Date: 8.MAR.2023 16:03:11

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

3.5 Test Conditions and Results - Power spectral density

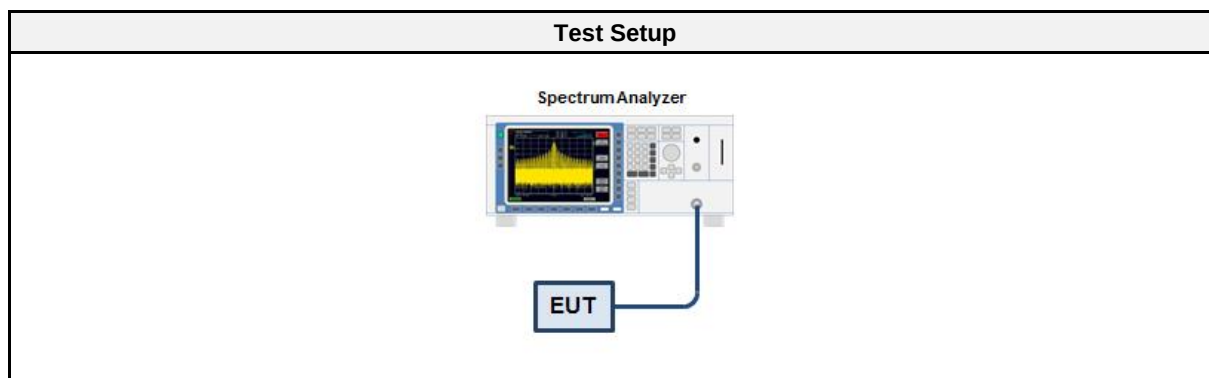
3.5.1 Information

Test Information	
Reference	FCC § 15.247(e); ISSED RSS-247, Issue 3 (section 5.2)
Measurement Method	ANSI C63.10 11.10.2, 14.3.2
Measurement Uncertainty	± 2.86 dB
Operator	Wilfried Treffke
Date	2023-03-08

3.5.2 Limits

Limits
8 dBm / 3 kHz

3.5.3 Setup



3.5.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 43	EF01631	2022-08	2023-08
Cable	Gigalan 1730	CAABB	EF00779	2022-03	2023-03

3.5.5 Procedure

Test Procedure
1. EUT set to test mode 2. The analyzer is set to DTS channel center frequency with a span of 1.5 times the DTS bandwidth 3. The RBW is set to 100 kHz with VBW $\geq$ RBW and the detector is set to peak with max hold 4. After the trace has stabilized a marker is set to the envelope maximum 5. If the power spectral density is above the limit the RBW is reduced (not lower than 3 kHz) and the measurement is repeated 6. If the EUT has more than one transmit chain the procedure is repeated for each transmit chain

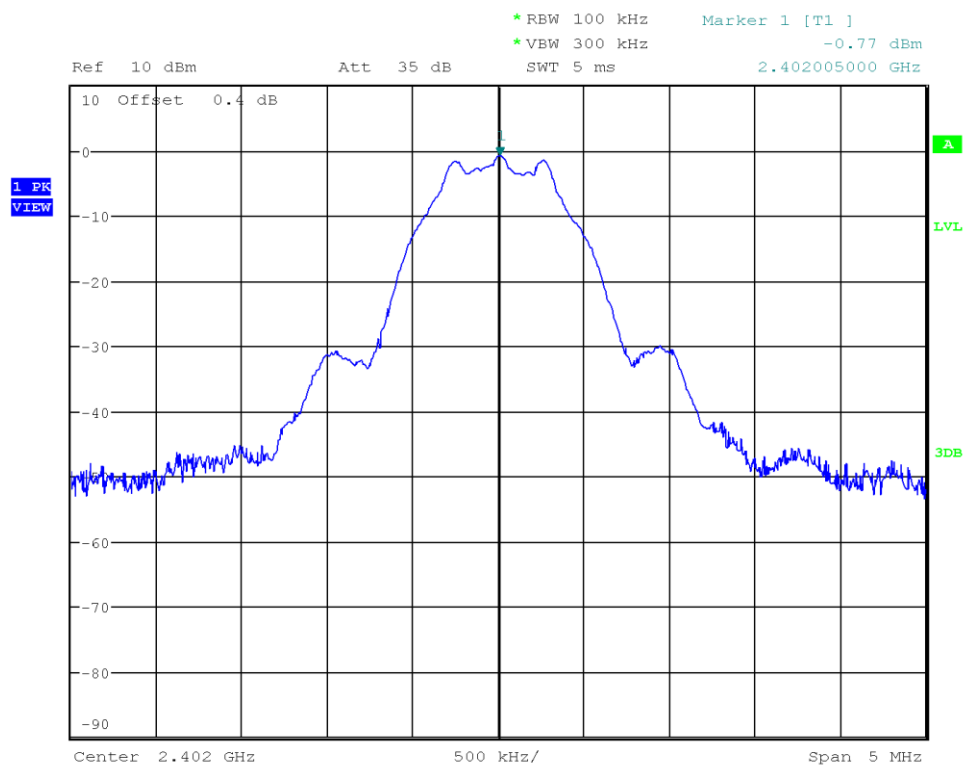
3.5.6 Results

Test Results – 1 Mbps			
Channel [MHz]	PSD [dBm/RBW]	Limit [dBm/3kHz]	Verdict
2402	-0.770	8.0	PASS
2440	-1.232	8.0	PASS
2480	-1.540	8.0	PASS
RBW = 100 kHz			

Test Results – 2 Mbps			
Channel [MHz]	PSD [dBm/RBW]	Limit [dBm/3kHz]	Verdict
2402	-0.795	8.0	PASS
2440	-1.253	8.0	PASS
2480	-1.556	8.0	PASS
RBW = 100 kHz			

Peak Power Spectral Density

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Peak Frequency [MHz]: 2402.005
 Spectral Density [dBm/RBW]: -0.770
 Resolution Bandwidth [kHz]: 100 kHz



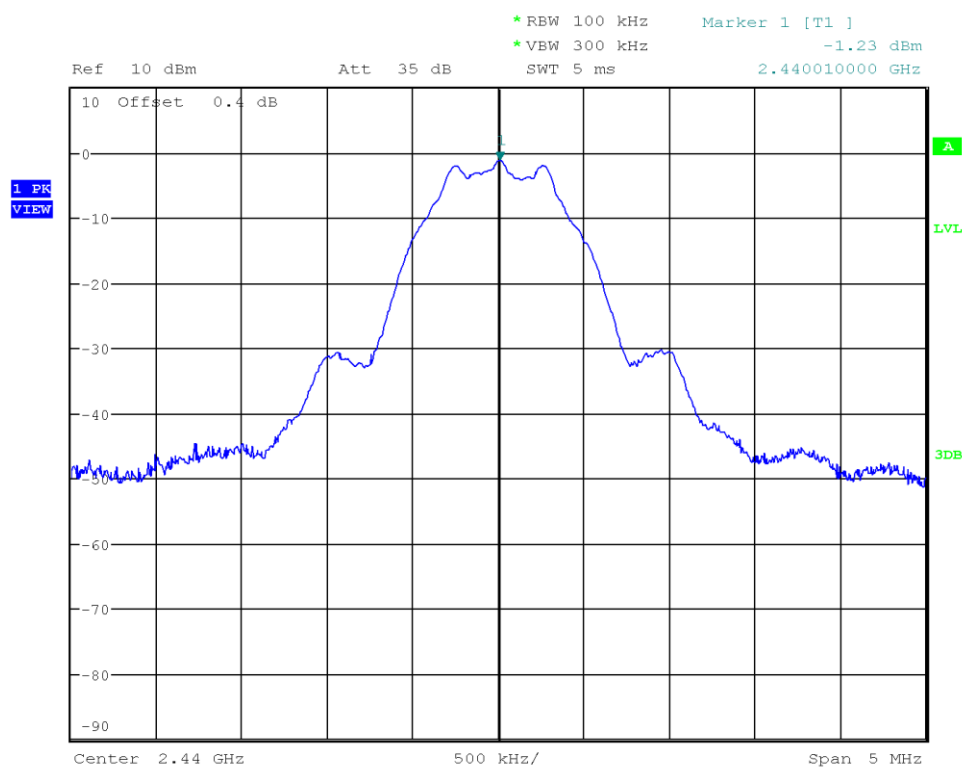
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Peak Power Spectral Density

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Peak Frequency [MHz]: 2440.010
 Spectral Density [dBm/RBW]: -1.232
 Resolution Bandwidth [kHz]: 100 kHz



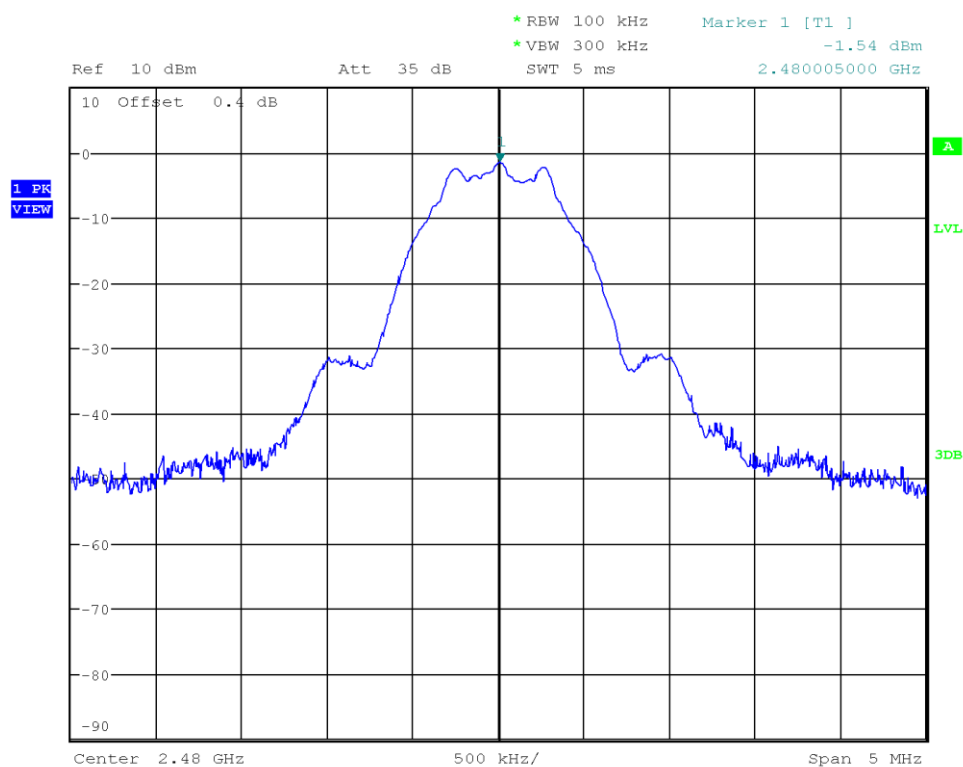
Date: 8.MAR.2023 16:13:20

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Peak Power Spectral Density

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Peak Frequency [MHz]: 2480.005
 Spectral Density [dBm/RBW]: -1.540
 Resolution Bandwidth [kHz]: 100 kHz



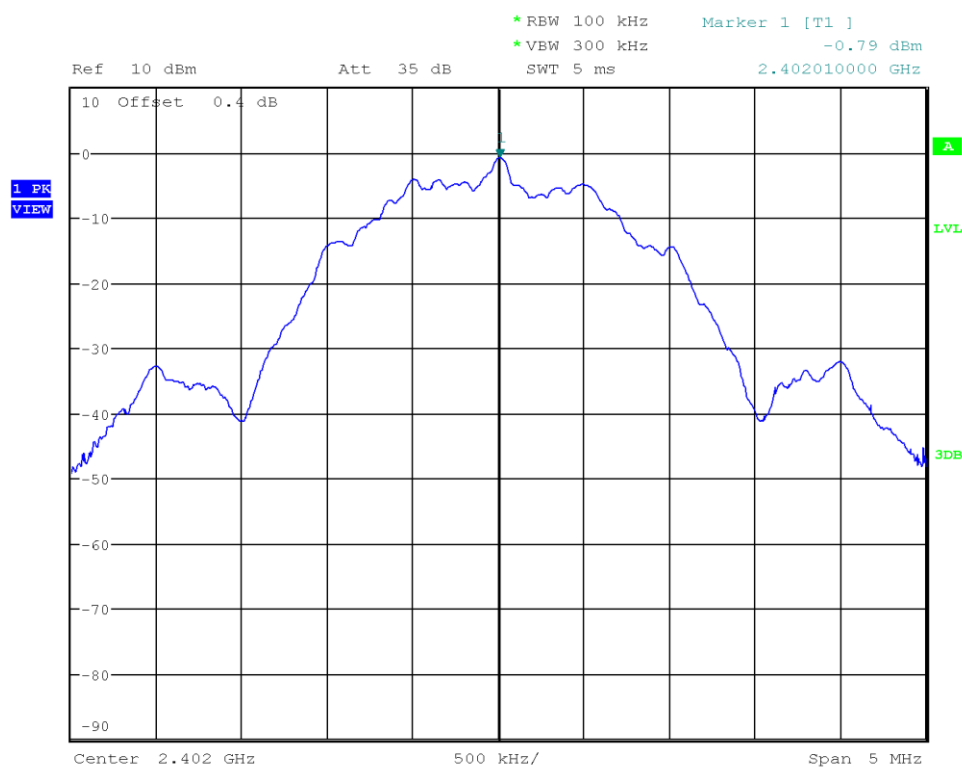
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Peak Power Spectral Density

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Peak Frequency [MHz]: 2402.010
 Spectral Density [dBm/RBW]: -0.795
 Resolution Bandwidth [kHz]: 100 kHz



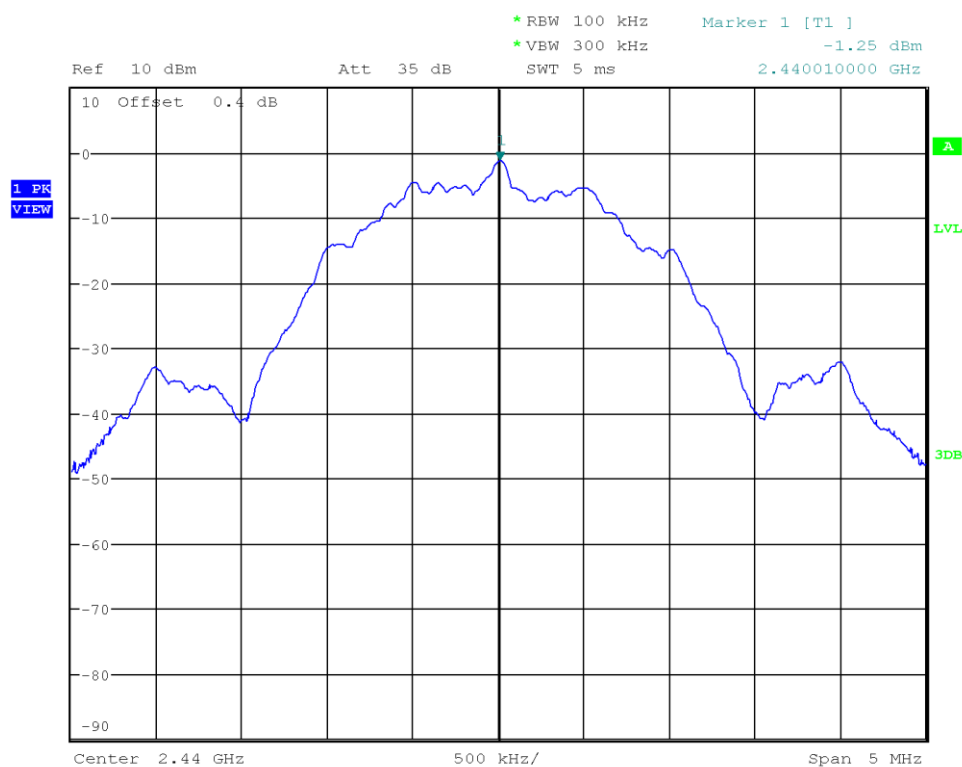
Date: 8.MAR.2023 16:17:40

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Peak Power Spectral Density

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Peak Frequency [MHz]: 2440.010
 Spectral Density [dBm/RBW]: -1.253
 Resolution Bandwidth [kHz]: 100 kHz



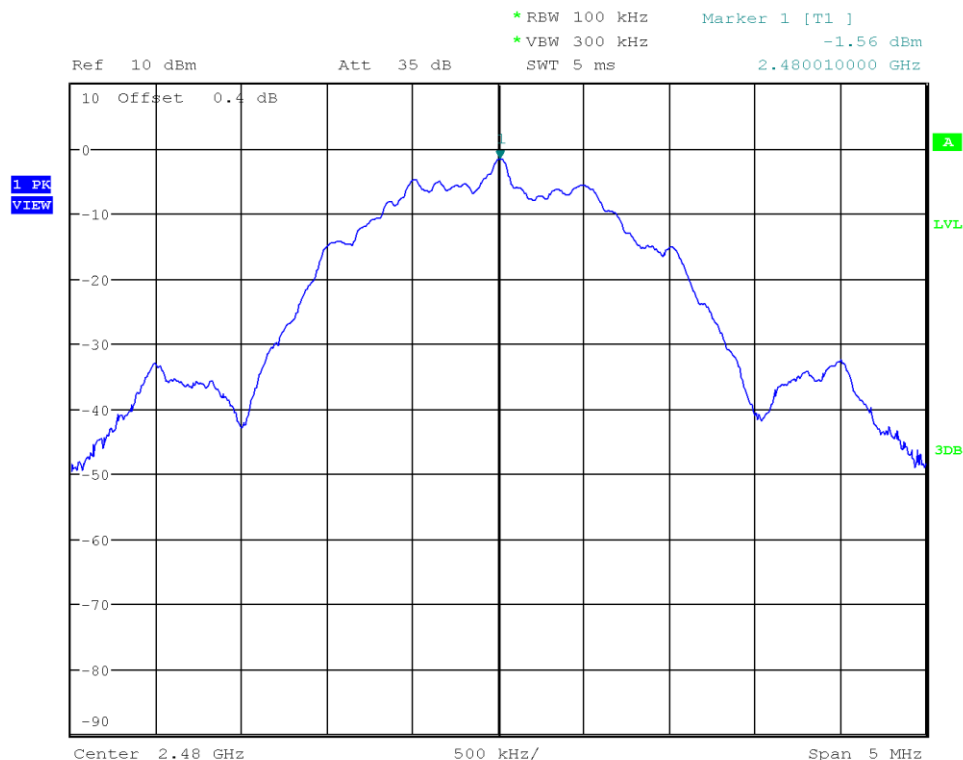
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Peak Power Spectral Density

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.10.2
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Peak Frequency [MHz]: 2480.010
 Spectral Density [dBm/RBW]: -1.556
 Resolution Bandwidth [kHz]: 100 kHz



Date: 8.MAR.2023 16:22:25

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

3.6 Test Conditions and Results - Band-edge compliance

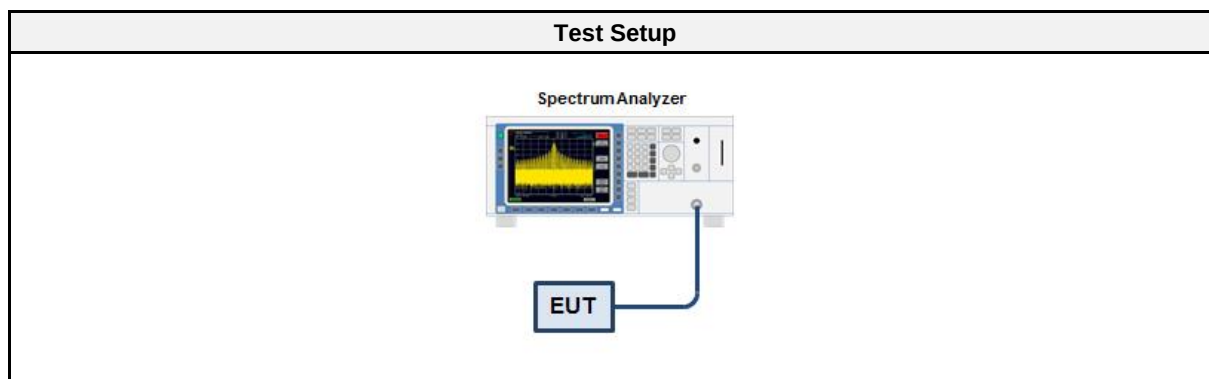
3.6.1 Information

Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 3 (section 5.5)
Measurement Uncertainty	± 3.64 dB
Measurement Method	ANSI C63.10 11.13
Operator	Wilfried Treffke
Date	2023-03-08

3.6.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.6.3 Setup



3.6.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 43	EF01631	2022-08	2023-08
Cable	Gigalan 1730	CAABB	EF00779	2022-03	2023-03

3.6.5 Procedure

Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference

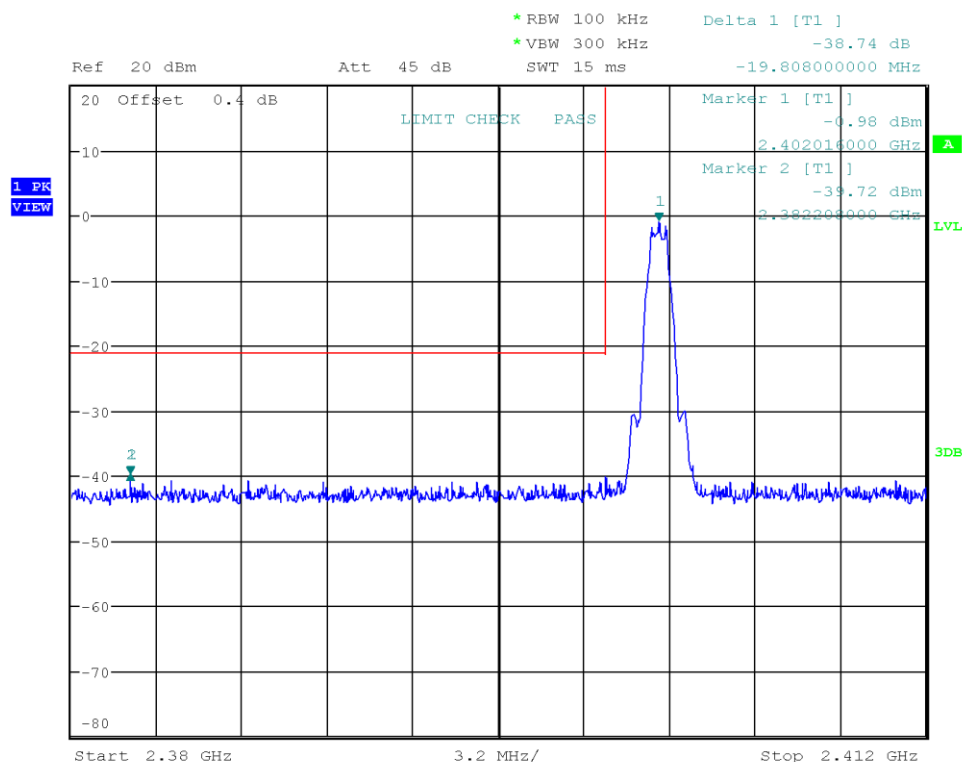
3.6.6 Results

Test Results – 1 Mbps				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
GFSK	2402	-38.74	-20	PASS
GFSK	2480	-48.31	-20	PASS

Test Results – 2 Mbps				
Mode	Channel [MHz]	Out-of-band Attenuation [dB]	Limit [dB]	Verdict
GFSK	2402	-32.28	-20	PASS
GFSK	2480	-47.62	-20	PASS

Emissions in nonrestricted frequency bands at the Band-edge

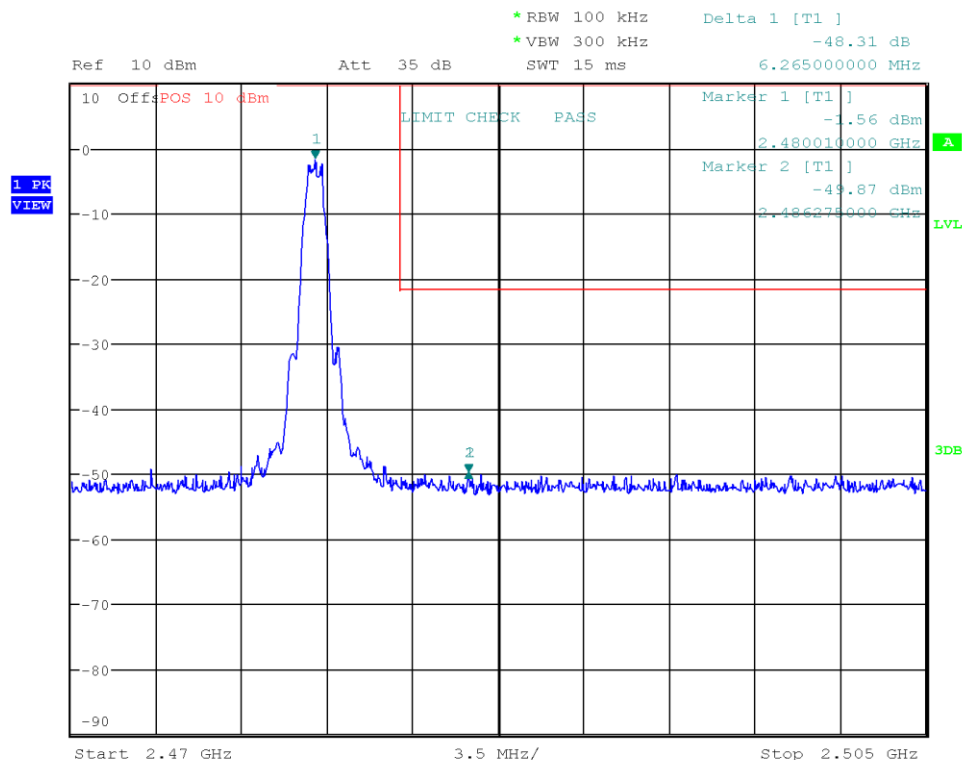
Project Number:	G0M-2302-1878
Applicant:	Leica Geosystems AG
Model Description:	Remote Control
Model:	Leica RC10
Test Sample ID:	43163
Reference Standards:	FCC 15.247, RSS-247
Reference Method:	ANSI C63.10:2013, Section 7.8.6, 6.10.4
Operating Conditions:	Tnom/Vnom
Operator:	Wilfried Treffke
Test Site:	Eurofins Product Service GmbH
Test Date:	2023-03-08
Note:	1 Mbps
Band-edge	Lower
In-band Frequency [MHz]:	2402.016
Max. in-band Level [dBm/100 kHz]:	-0.982
Out-of-band Frequency [MHz]:	2382.208
Max. out-of-band Level [dBm/100 kHz]:	-39.718
Attenuation [dB]:	-38.74



Date: 8.MAR.2023 16:32:55

Emissions in nonrestricted frequency bands at the Band-edge

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Band-edge: Upper
 In-band Frequency [MHz]: 2480.01
 Max. in-band Level [dBm/100 kHz]: -1.565
 Out-of-band Frequency [MHz]: 2486.275
 Max. out-of-band Level [dBm/100 kHz]: -49.873
 Attenuation [dB]: -48.31



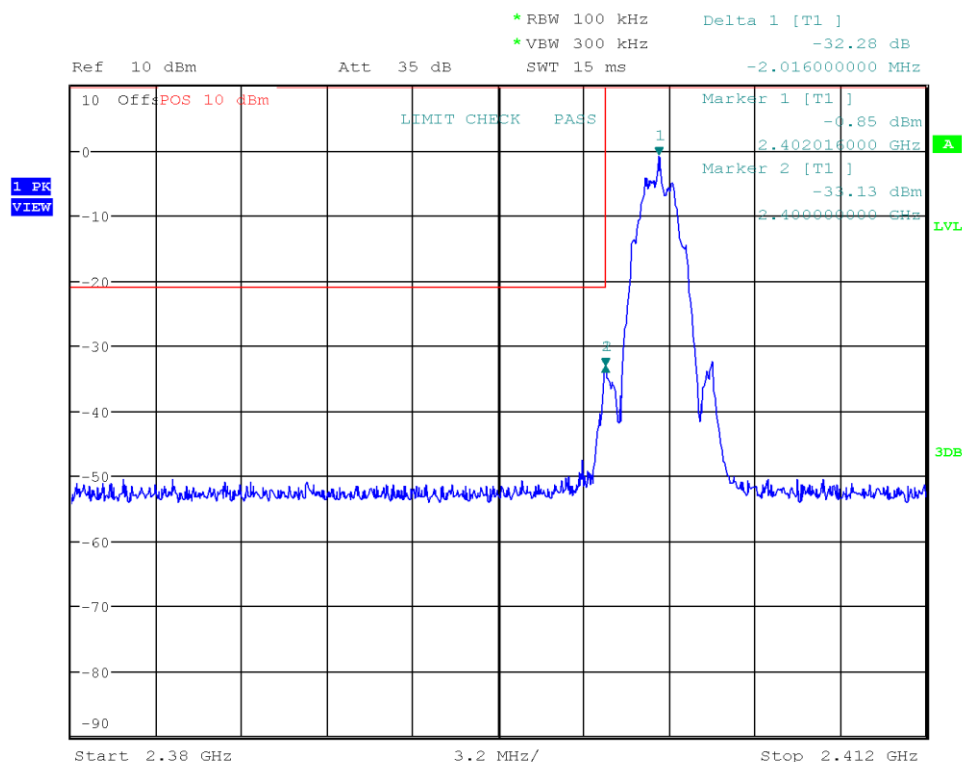
Date: 8.MAR.2023 16:34:53

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Emissions in nonrestricted frequency bands at the Band-edge

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Band-edge: Lower
 In-band Frequency [MHz]: 2402.016
 Max. in-band Level [dBm/100 kHz]: -0.851
 Out-of-band Frequency [MHz]: 2400.0
 Max. out-of-band Level [dBm/100 kHz]: -33.127
 Attenuation [dB]: -32.28



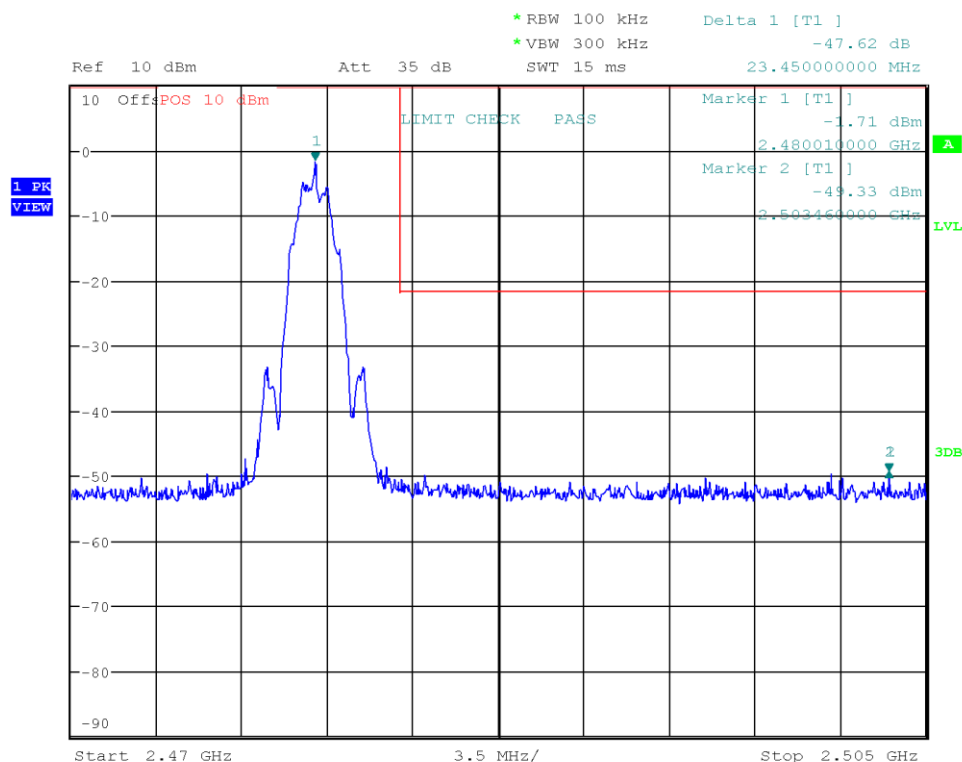
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Emissions in nonrestricted frequency bands at the Band-edge

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 7.8.6, 6.10.4
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Band-edge: Upper
 In-band Frequency [MHz]: 2480.01
 Max. in-band Level [dBm/100 kHz]: -1.715
 Out-of-band Frequency [MHz]: 2503.46
 Max. out-of-band Level [dBm/100 kHz]: -49.334
 Attenuation [dB]: -47.62



Date: 8.MAR.2023 16:40:36

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

3.7 Test Conditions and Results - Conducted spurious emissions

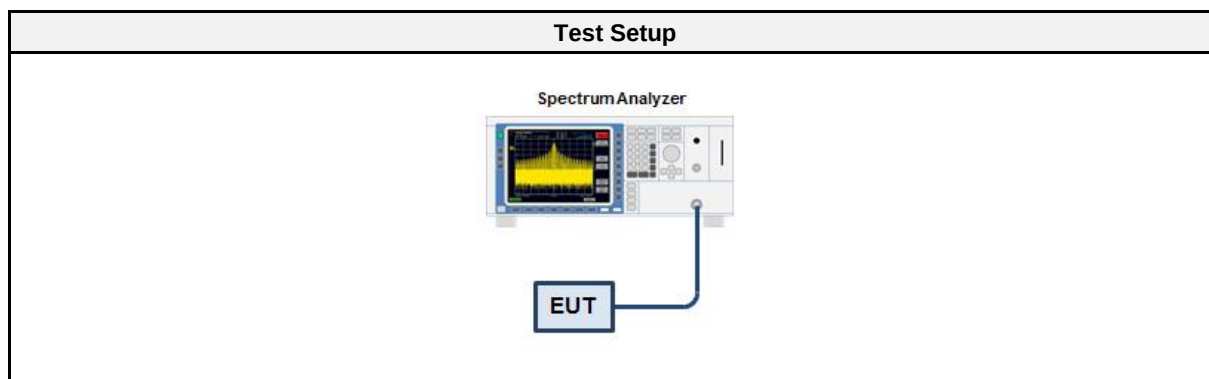
3.7.1 Information

Test Information	
Reference	FCC § 15.247(d); ISED RSS-247, Issue 3 (section 5.5)
Measurement Uncertainty	± 4.25 dB
Measurement Method	ANSI C63.10 11.11
Operator	Wilfried Treffke
Date	2023-03-08

3.7.2 Limits

Limits	
Power Measurement	Out-of-band attenuation [dB]
Peak	20
RMS	30

3.7.3 Setup



3.7.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyser	R&S	FSU 43	EF01631	2022-08	2023-08
Cable	Gigalan 1730	CAABB	EF00779	2022-03	2023-03

3.7.5 Procedure

Test Procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels outside frequency band

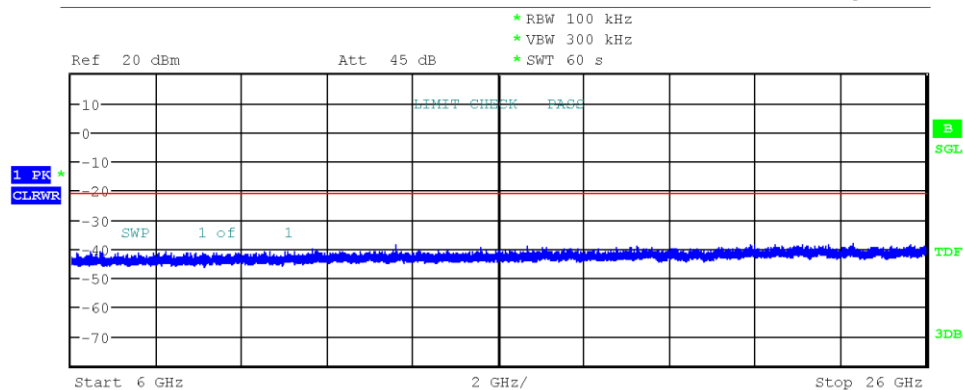
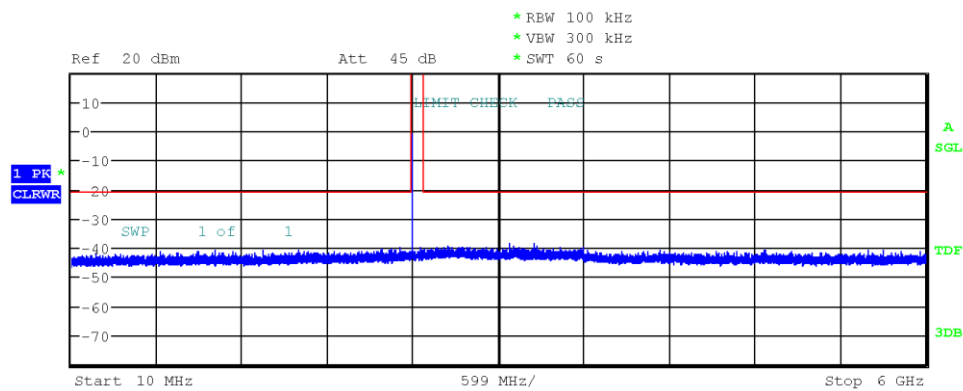
3.7.6 Results

Test Results – 1 Mbps		
Mode	Channel [MHz]	Verdict
GFSK	2402	PASS
GFSK	2440	PASS
GFSK	2480	PASS

Test Results – 2 Mbps		
Mode	Channel [MHz]	Verdict
GFSK	2402	PASS
GFSK	2440	PASS
GFSK	2480	PASS

Conducted Spurious Emissions

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Max. in-band Frequency [MHz]: 2402.0
 Max. in-band Level [dBm/100 kHz]: -0.8
 Out-of-band Limit [dBm/100 kHz]: -20.8



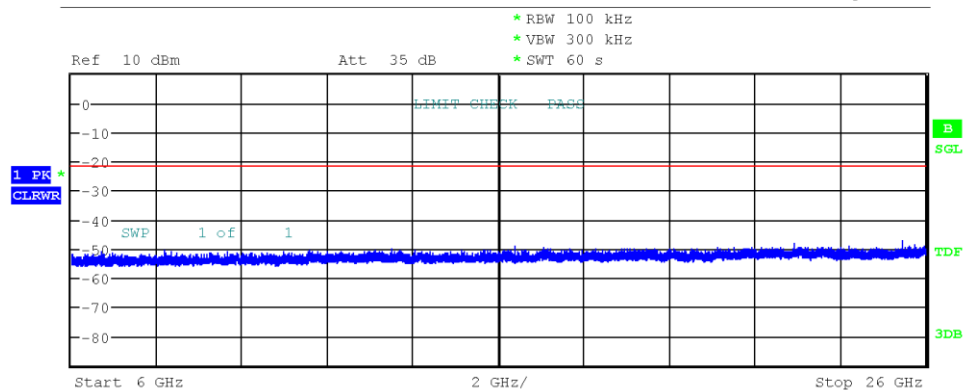
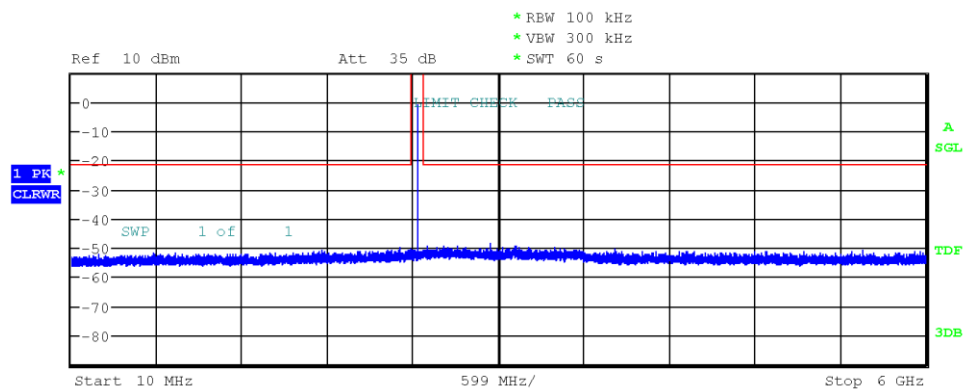
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Conducted Spurious Emissions

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Max. in-band Frequency [MHz]: 2440.0
 Max. in-band Level [dBm/100 kHz]: -1.1
 Out-of-band Limit [dBm/100 kHz]: -21.1



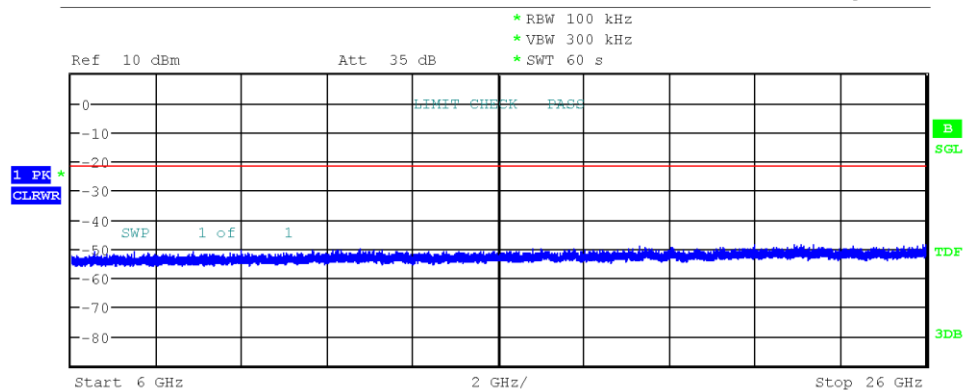
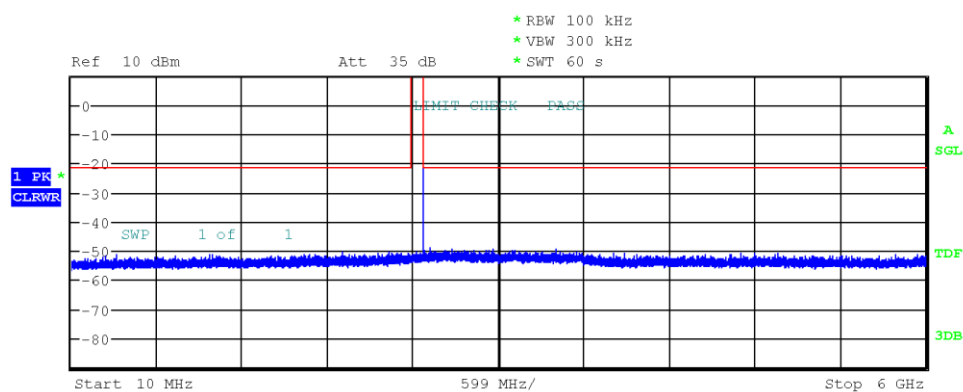
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Conducted Spurious Emissions

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 1 Mbps
 Max. in-band Frequency [MHz]: 2480.0
 Max. in-band Level [dBm/100 kHz]: -1.4
 Out-of-band Limit [dBm/100 kHz]: -21.4



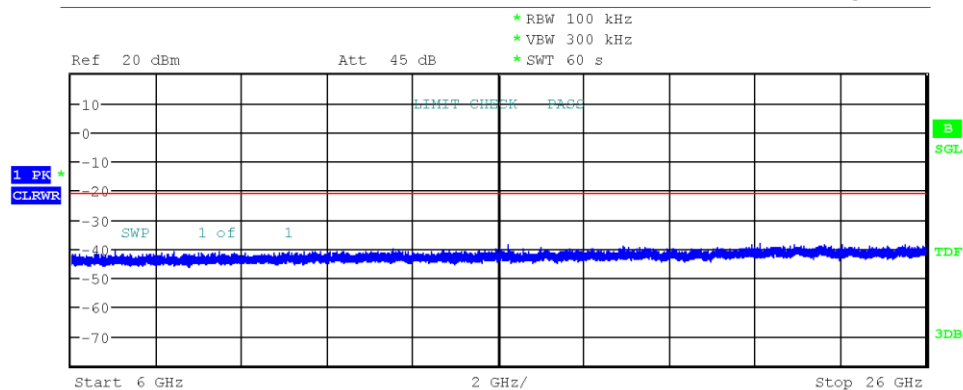
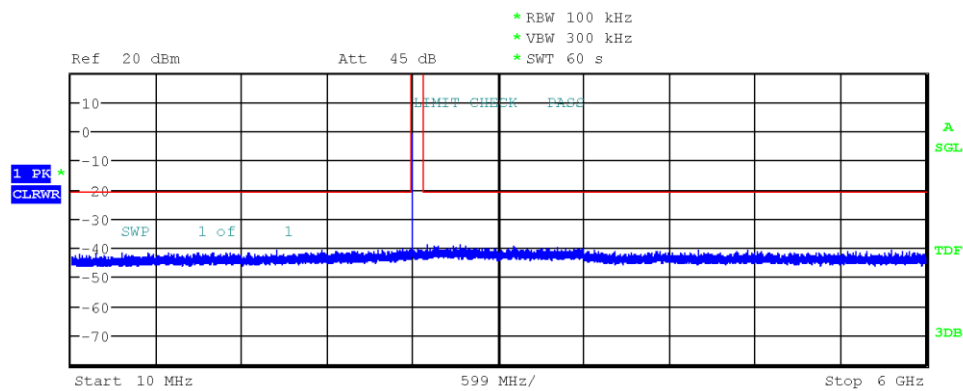
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Conducted Spurious Emissions

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 0, 2402 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Max. in-band Frequency [MHz]: 2402.0
 Max. in-band Level [dBm/100 kHz]: -0.7
 Out-of-band Limit [dBm/100 kHz]: -20.7



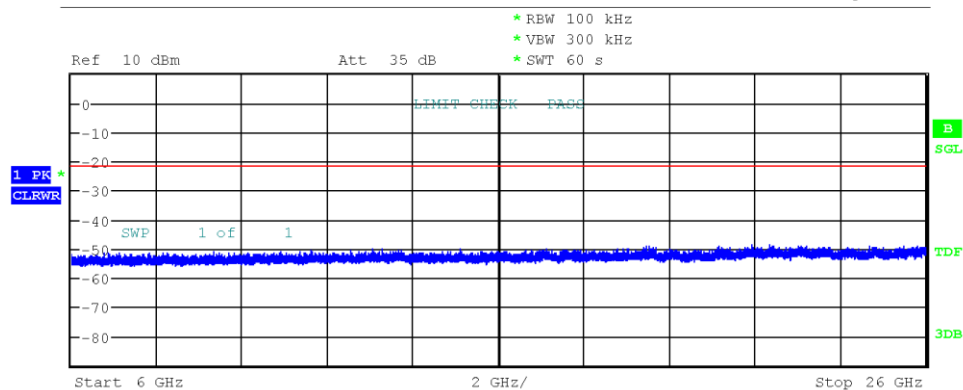
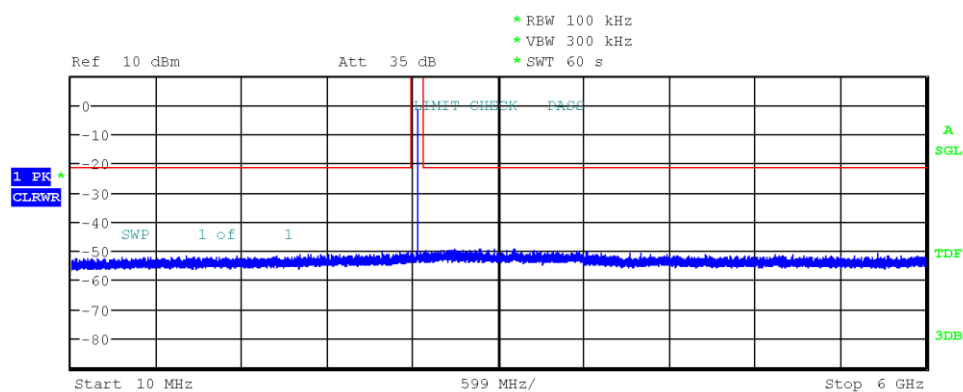
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Conducted Spurious Emissions

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 19, 2440 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Max. in-band Frequency [MHz]: 2440.0
 Max. in-band Level [dBm/100 kHz]: -1.0
 Out-of-band Limit [dBm/100 kHz]: -21.0



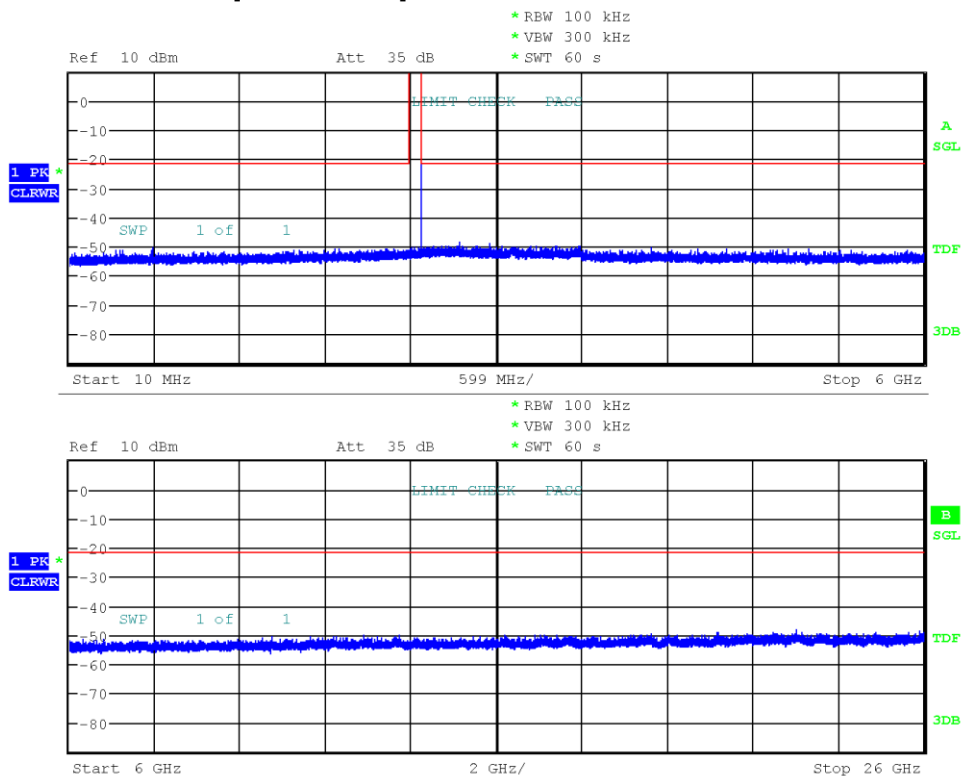
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Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Conducted Spurious Emissions

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43163
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 11.11
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2023-03-08
 Note: 2 Mbps
 Max. in-band Frequency [MHz]: 2480.0
 Max. in-band Level [dBm/100 kHz]: -1.3
 Out-of-band Limit [dBm/100 kHz]: -21.3



Date: 8.MAR.2023 17:14:28

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

3.8 Test Conditions and Results - Transmitter radiated emissions

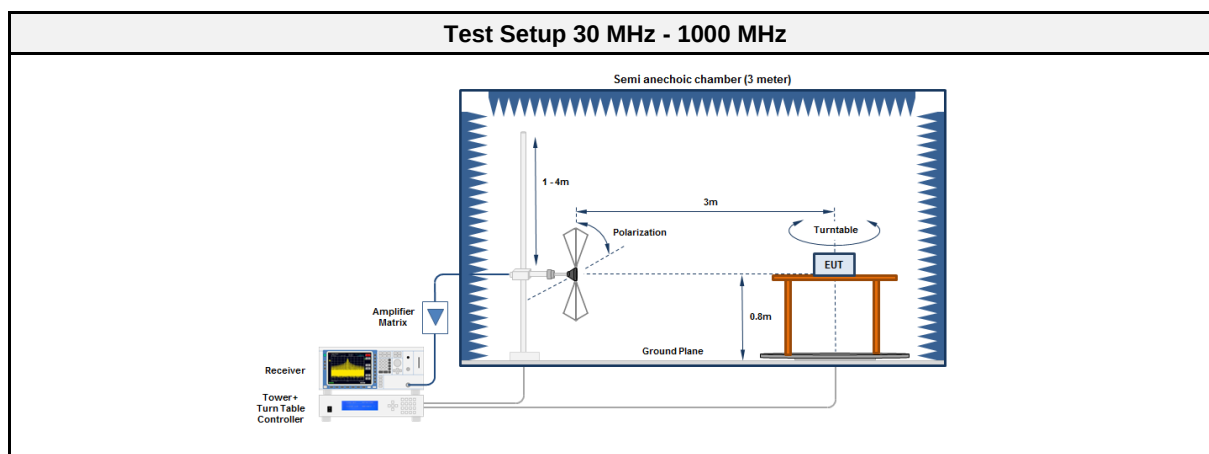
3.8.1 Information

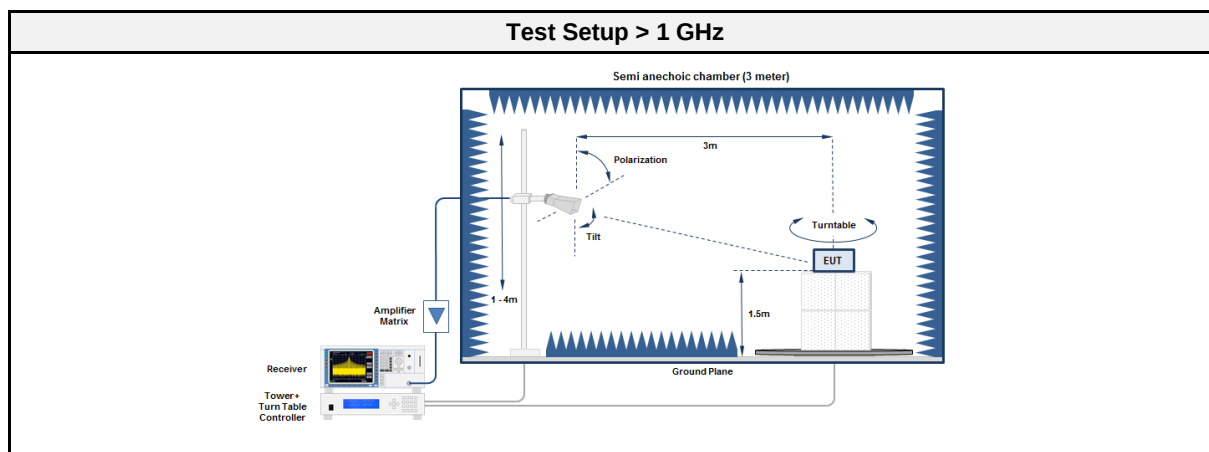
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISSED RSS-Gen, Issue 5 A2 (section 6.13)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6, 11.12
Operator	Odai Qawasmeh + Godson Oforji + Azamat Ibraimov
Date	2023-03-02 - 2023-03-17

3.8.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [µV/m]	Measurement distance [m]
0.009 - 0.09	Average	2400/F[kHz]	300
0.09 - 0.110	Quasi-Peak	2400/F[kHz]	300
0.110 - 0.490	Average	2400/F[kHz]	300
0.490 - 1.705	Quasi-Peak	24000/F[kHz]	30
1.705 - 30.0	Quasi-Peak	30	30
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.8.3 Setup





3.8.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2022-11	2025-11
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2023-02	2024-02
Antenna	Schwarzbeck	VULB 9168	EF01824	2022-10	2023-10

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC2	EF01616	2022-10	2023-10
Spectrum Analyzer	Frankonia	FSW 43	EF00896	2022-08	2023-08
Antenna	Schwarzbeck	BBHA 9120B	EF01678	2021-03	2024-03
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2024-03
Antenna	Amplifier Research	AT4560	EF00302	2021-06	2023-06

3.8.5 Procedure

Test Procedure 30 MHz - 1000 MHz	
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector	

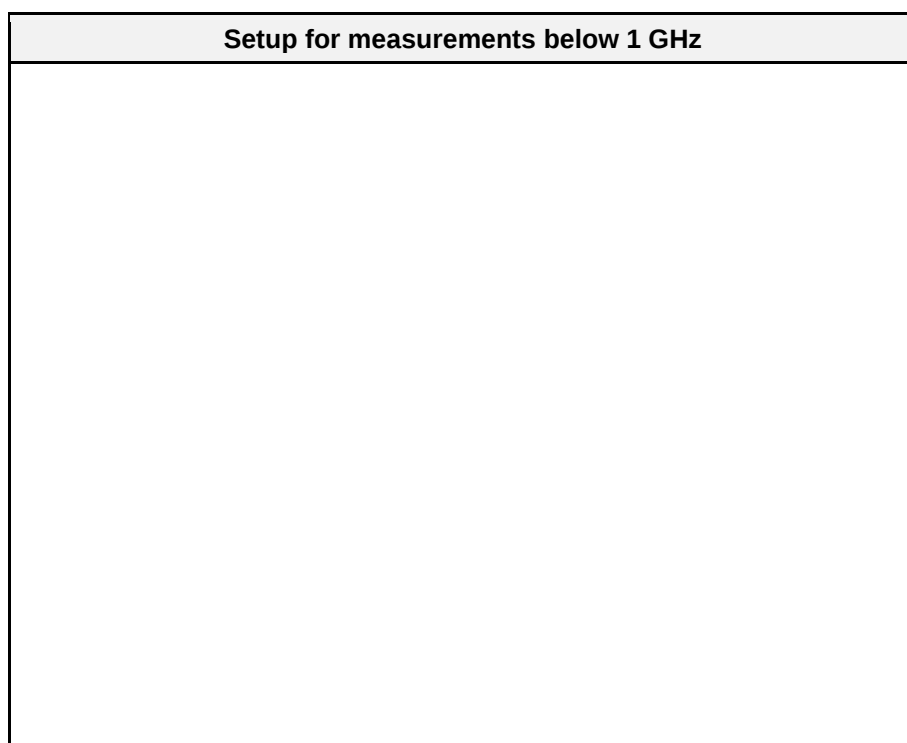
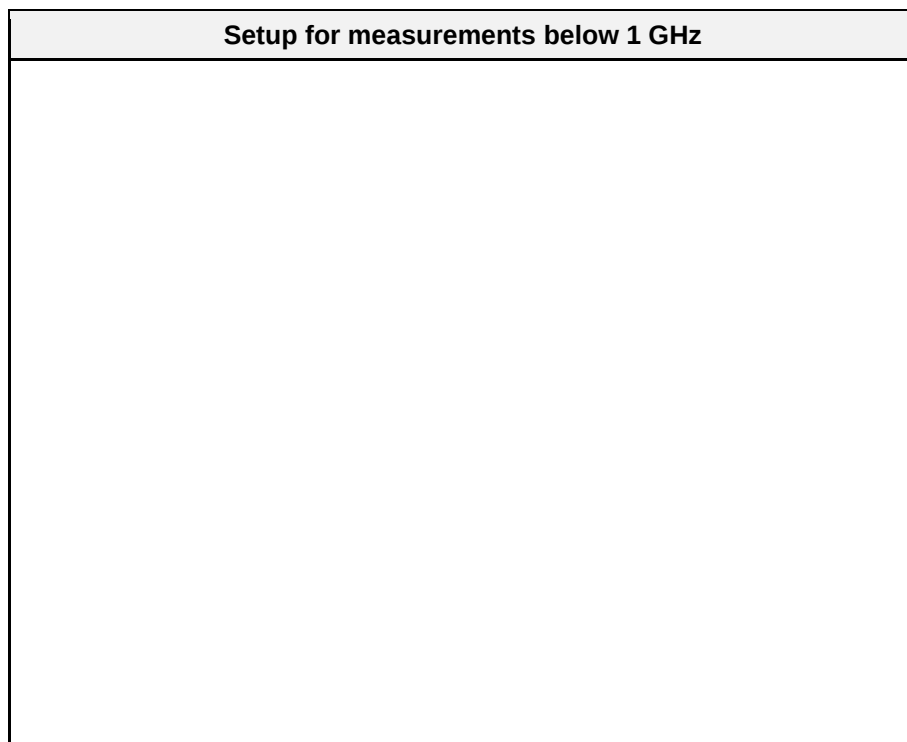
Test Procedure > 1 GHz	
1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector	

3.8.6 Results

Test Results – 1 Mbit/s						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2402	163.6175	24.40	pk	ver	43.50	-19.13
2402	260.0355	26.50	pk	hor	46.00	-19.54
2402	1013.4	41.91	pk	ver	74.00	-32.09
2402	1013.4	29.72	avg	ver	54.00	-24.28
2402	2274.1	39.81	pk	ver	74.00	-34.19
2402	2274.1	27.26	avg	ver	54.00	-26.74
2402	3923.7	44.06	pk	ver	74.00	-29.94
2402	3923.7	32.60	avg	ver	54.00	-21.40
2402	4803.7	47.33	pk	ver	74.00	-26.67
2402	4803.7	44.35	avg	ver	54.00	-09.65
2402	4804	49.24	pk	hor	74.00	-24.76
2402	4804	42.69	avg	hor	54.00	-11.31
2402	17784	43.60	pk	hor	74.00	-30.40
2402	17784	32.06	avg	hor	54.00	-21.94
2440	129.2795	25.60	pk	ver	43.50	-17.96
2440	1091.2	41.38	pk	ver	74.00	-32.62
2440	1091.2	24.68	avg	ver	54.00	-29.32
2440	1187.4	42.68	pk	ver	74.00	-31.32
2440	1187.4	23.71	avg	ver	54.00	-30.29
2440	2312.1	37.71	pk	hor	74.00	-36.29
2440	2312.1	29.35	avg	hor	54.00	-24.65
2440	4661.9	45.14	pk	hor	74.00	-28.86
2440	4661.9	30.23	avg	hor	54.00	-23.77
2440	4879.7	47.59	pk	ver	74.00	-26.41
2440	4879.7	44.00	avg	ver	54.00	-10.00
2440	4880	47.24	pk	ver	74.00	-26.76
2440	4880	43.84	avg	ver	54.00	-10.16
2480	127.6547	23.30	pk	ver	43.50	-20.24
2480	2352	40.53	pk	ver	74.00	-33.47
2480	2352	28.98	avg	ver	54.00	-25.02
2480	3995	45.64	pk	ver	74.00	-28.36
2480	3995	32.98	avg	ver	54.00	-21.02
2480	4662	44.46	pk	hor	74.00	-29.54
2480	4662	29.76	avg	hor	54.00	-24.24
2480	4960	45.67	pk	ver	74.00	-28.33
2480	4960	51.28	pk	hor	74.00	-22.72
2480	4960	39.57	avg	ver	54.00	-14.43
2480	4960	42.98	avg	hor	54.00	-11.02

Test Results – 2 Mbit/s						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2402	129.2552	23.90	pk	ver	43.50	-19.58
2440	608.8718	28.70	pk	hor	46.00	-17.32
2440	3995.3	37.86	pk	ver	74.00	-36.14
2440	3995.3	27.65	avg	ver	54.00	-26.35
2440	4881.1	43.52	pk	ver	74.00	-30.48
2440	4881.1	37.62	avg	ver	54.00	-16.38
2480	611.2483	29.00	pk	hor	46.00	-17.01

3.8.7 Setup Photos



EUT Test Setup

Setup for measurements above 1 GHz

Setup for measurements above 1 GHz**EUT Test Setup**

3.9 Test Conditions and Results - Receiver radiated emissions

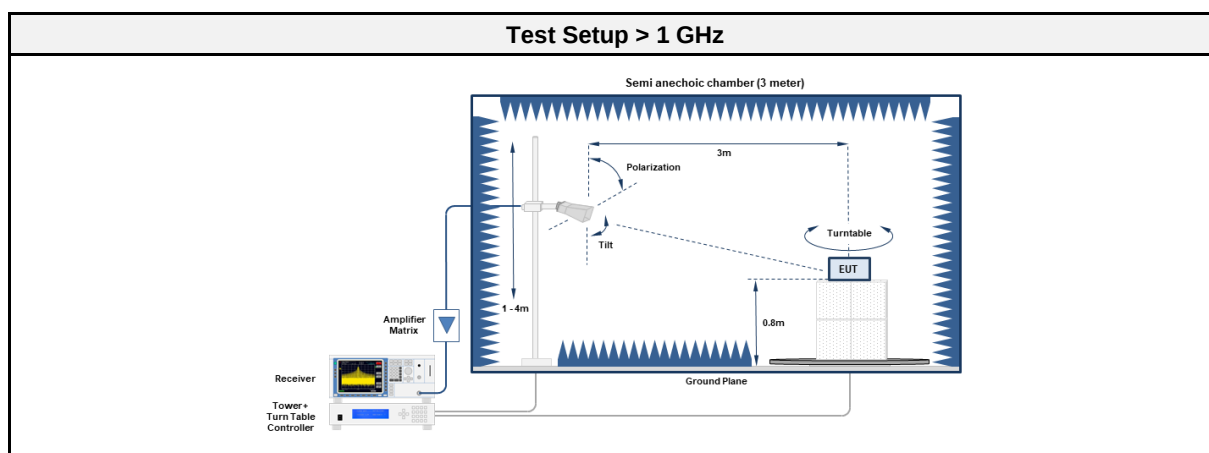
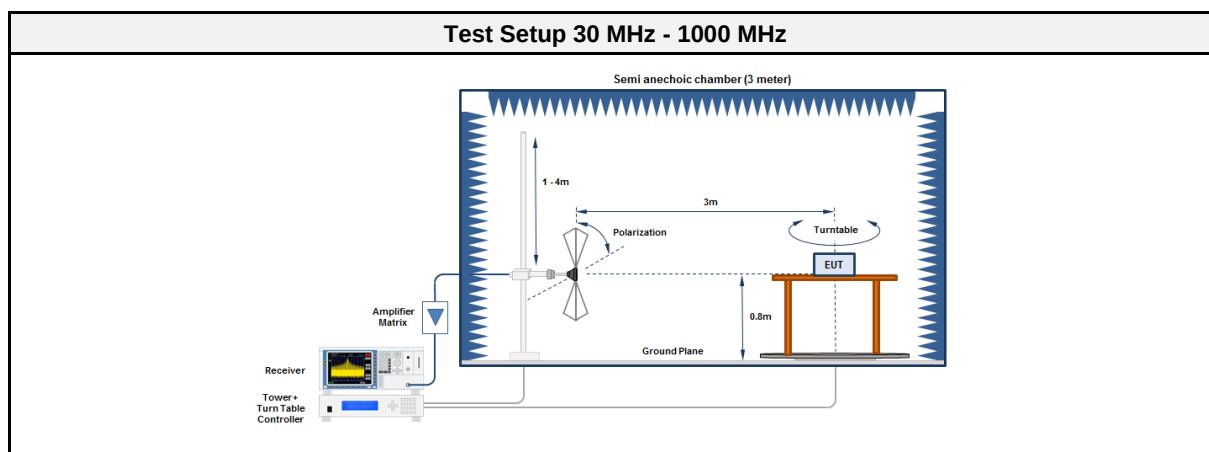
3.9.1 Information

Test Information	
Reference	ISED RSS-247, Issue 3 (section 3.1)
Measurement Uncertainty	± 5.95 dB
Measurement Method	ANSI C63.4-2014 8.1-8.3
Operator	Odai Qawasmeh
Date	2023-03-13

3.9.2 Limits

Limits			
Frequency range [MHz]	Detector	Field strength [$\mu\text{V/m}$]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.9.3 Setup



3.9.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2020.1.8

Test Equipment 30 MHz - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2022-11	2025-11
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2023-02	2024-02
Antenna	Schwarzbeck	VULB 9168	EF01824	2022-10	2023-10

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF01011	2022-11	2023-11
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2023-02	2024-02
Antenna	Schwarzbeck	BBHA 9120D	EF01561	2021-11	2024-11
Antenna	Schwarzbeck	HWRD 650	EF01679	2021-03	2024-03

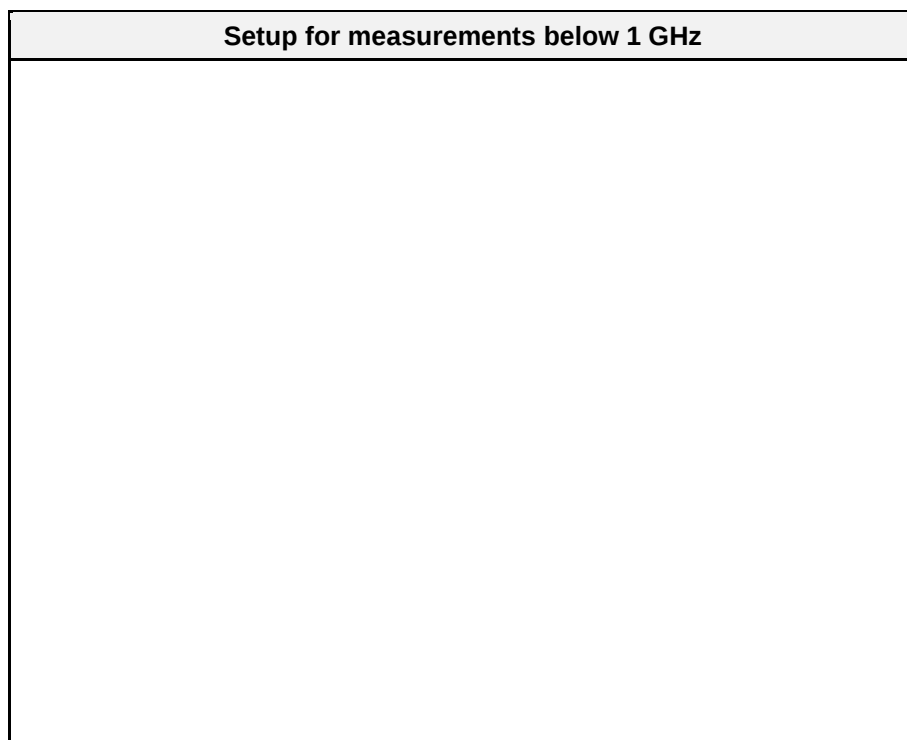
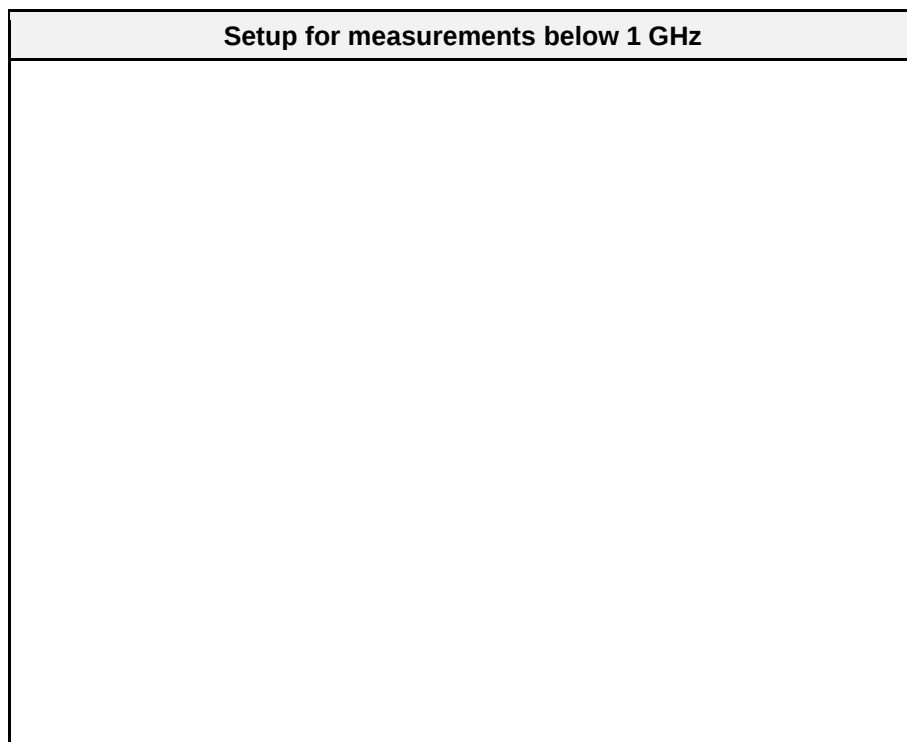
3.9.5 Procedure

Test Procedure
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground 2. EUT is set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector

3.9.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2440	47.9935	29.40	pk	ver	40.00	-10.62
2440	95.9769	36.40	qpk	ver	43.50	-07.10
2440	95.9803	33.60	qpk	ver	43.50	-09.90
2440	191.9406	35.50	qpk	ver	43.50	-08.05
2440	191.9528	34.20	qpk	ver	43.50	-09.28
2440	479.8463	37.10	qpk	ver	46.00	-08.93
2440	479.8782	36.10	qpk	ver	46.00	-09.88
2440	6468	48.75	pk	ver	74.00	-25.25
2440	6468	39.31	avg	ver	53.98	-14.67
2440	17987	42.69	pk	hor	74.00	-31.31
2440	17987	29.93	avg	hor	53.98	-24.05

3.9.7 Setup Photos



EUT Test Setup

Setup for measurements above 1 GHz

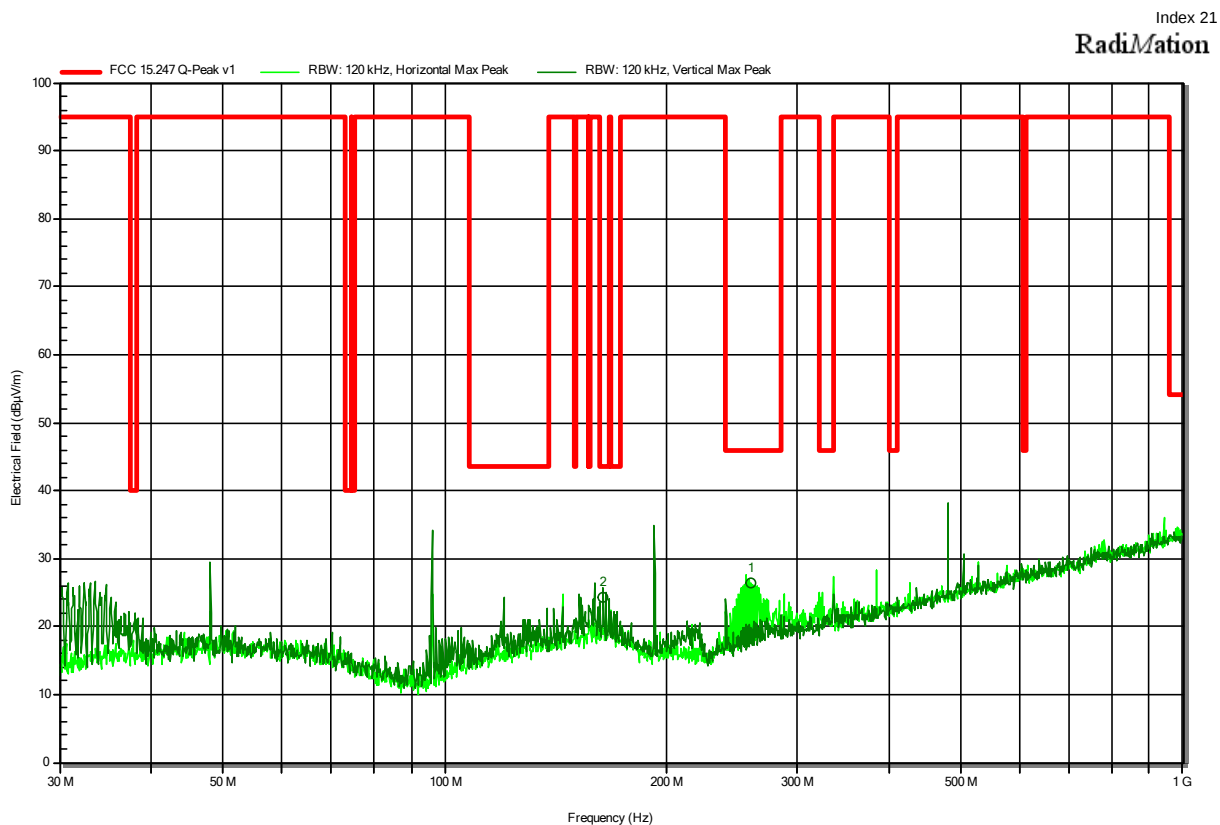
Setup for measurements above 1 GHz

EUT Test Setup

ANNEX A Transmitter spurious emissions

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

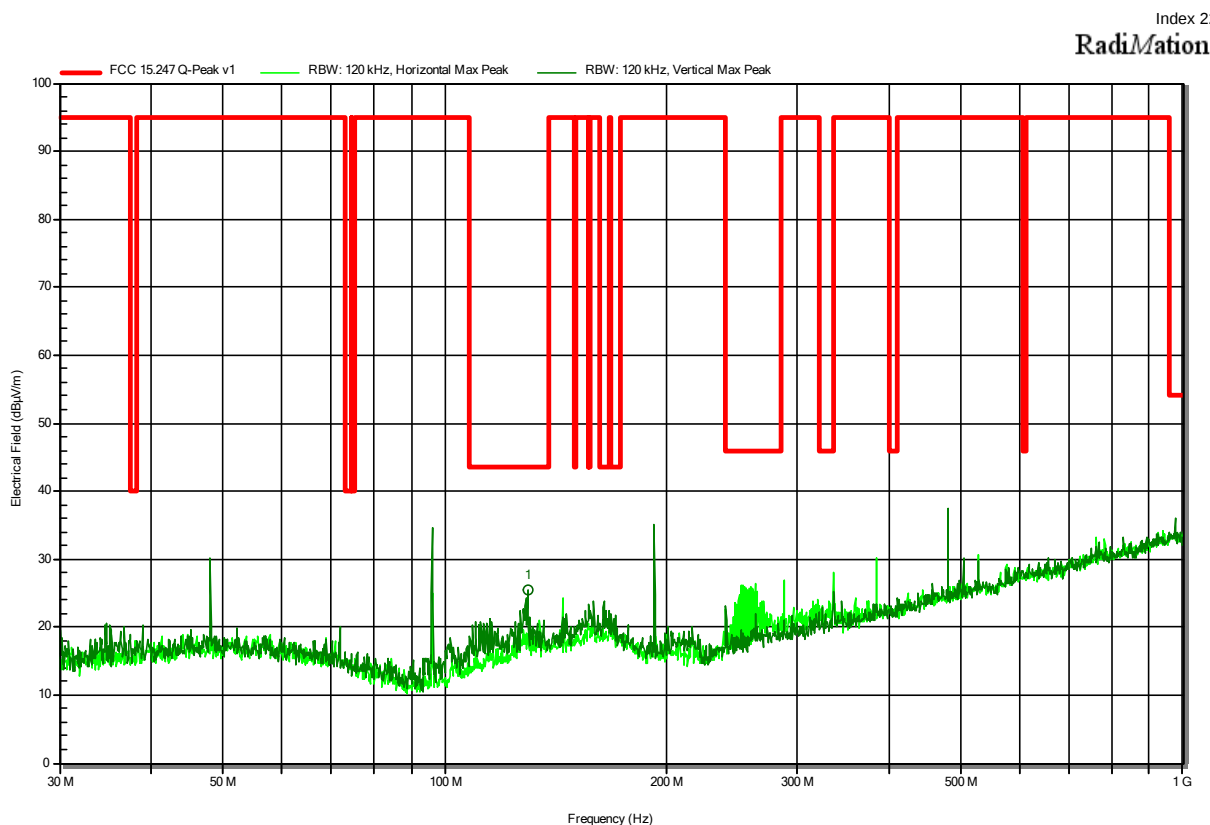
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; BLE, 2402 MHz, 1Mbps, PRBS9, 229 Bytes, DC 63%, Pmax
 Test Date: 2023-03-13
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
163.6175 MHz	24.4 dBμV/m	43.5 dBμV/m	-19.13 dB	Pass	Vertical
260.0355 MHz	26.5 dBμV/m	46 dBμV/m	-19.54 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

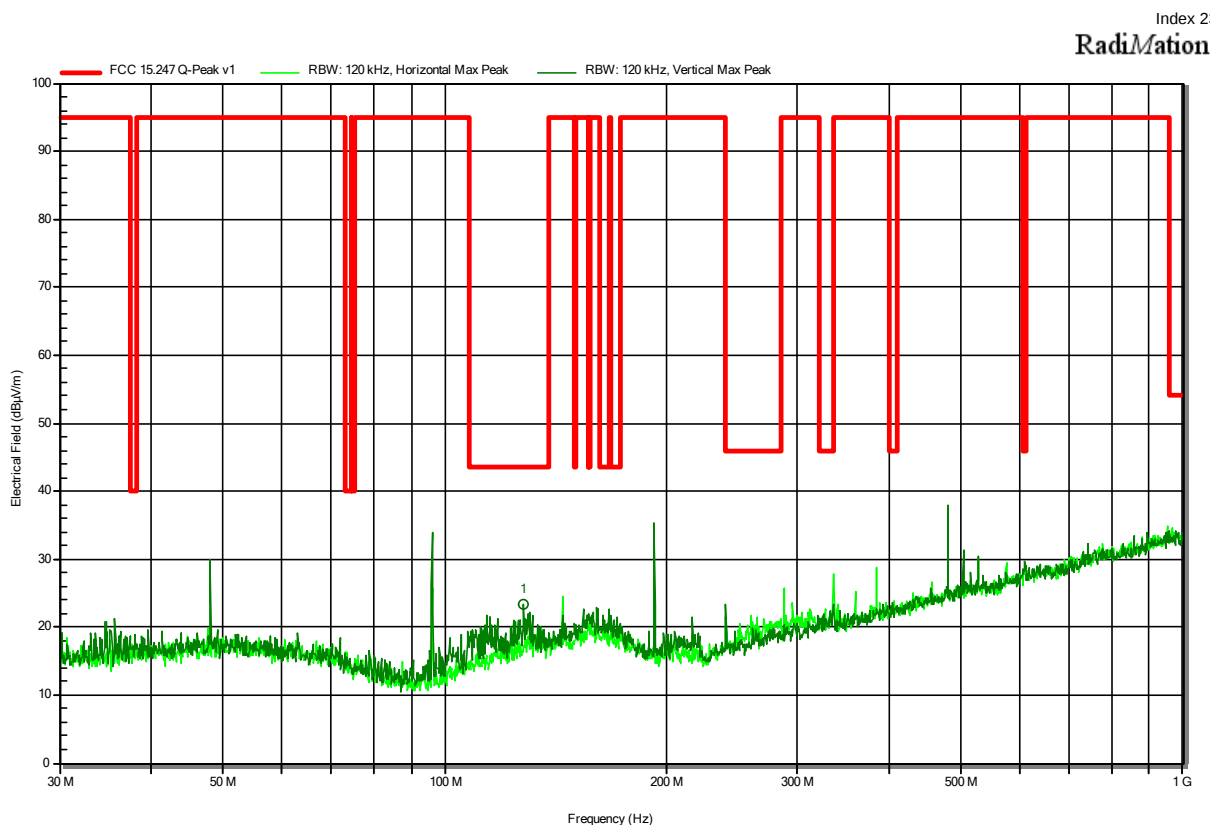
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; BLE, 2440 MHz, 1Mbps, PRBS9, 229 Bytes, DC 63%, Pmax
 Test Date: 2023-03-13
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
129.2795 MHz	25.6 dBμV/m	43.5 dBμV/m	-17.96 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

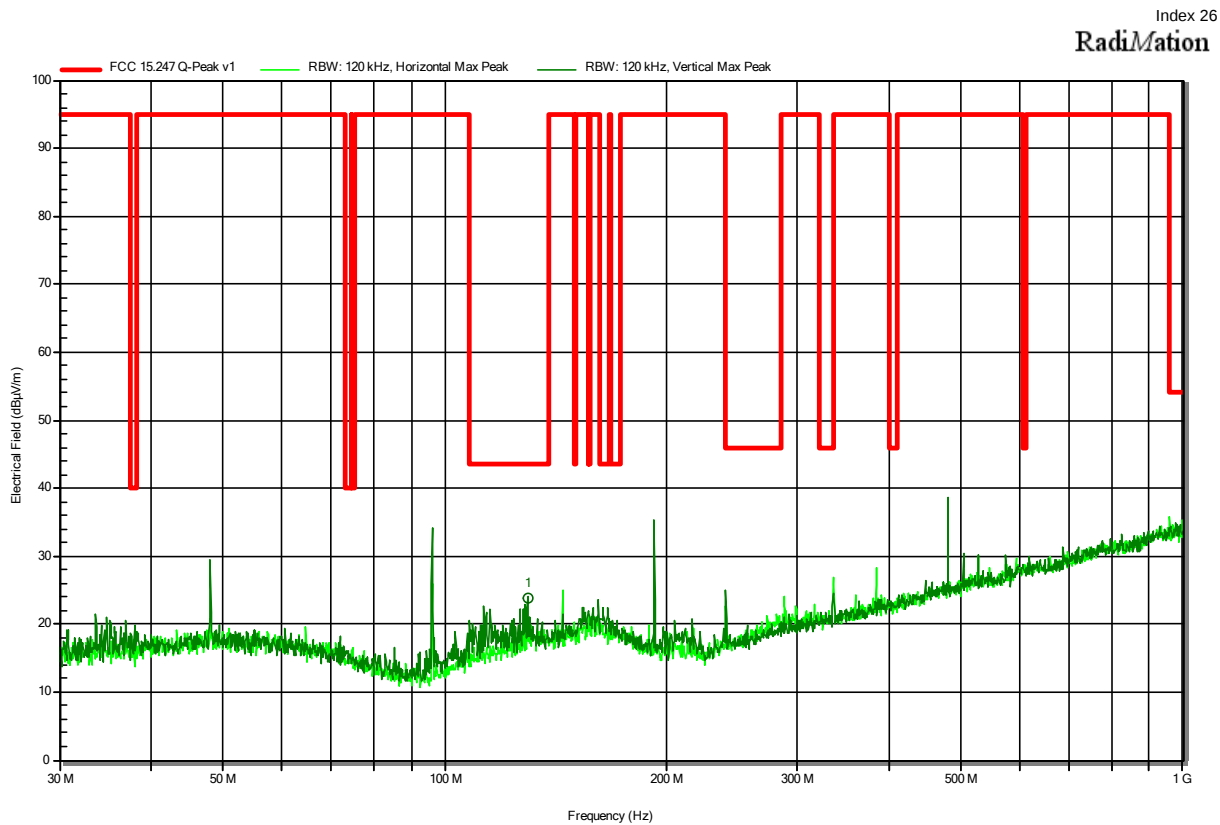
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; BLE, 2480 MHz, 1Mbps, PRBS9, 229 Bytes, DC 63%, Pmax
 Test Date: 2023-03-13
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
127.6547 MHz	23.3 dBμV/m	43.5 dBμV/m	-20.24 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

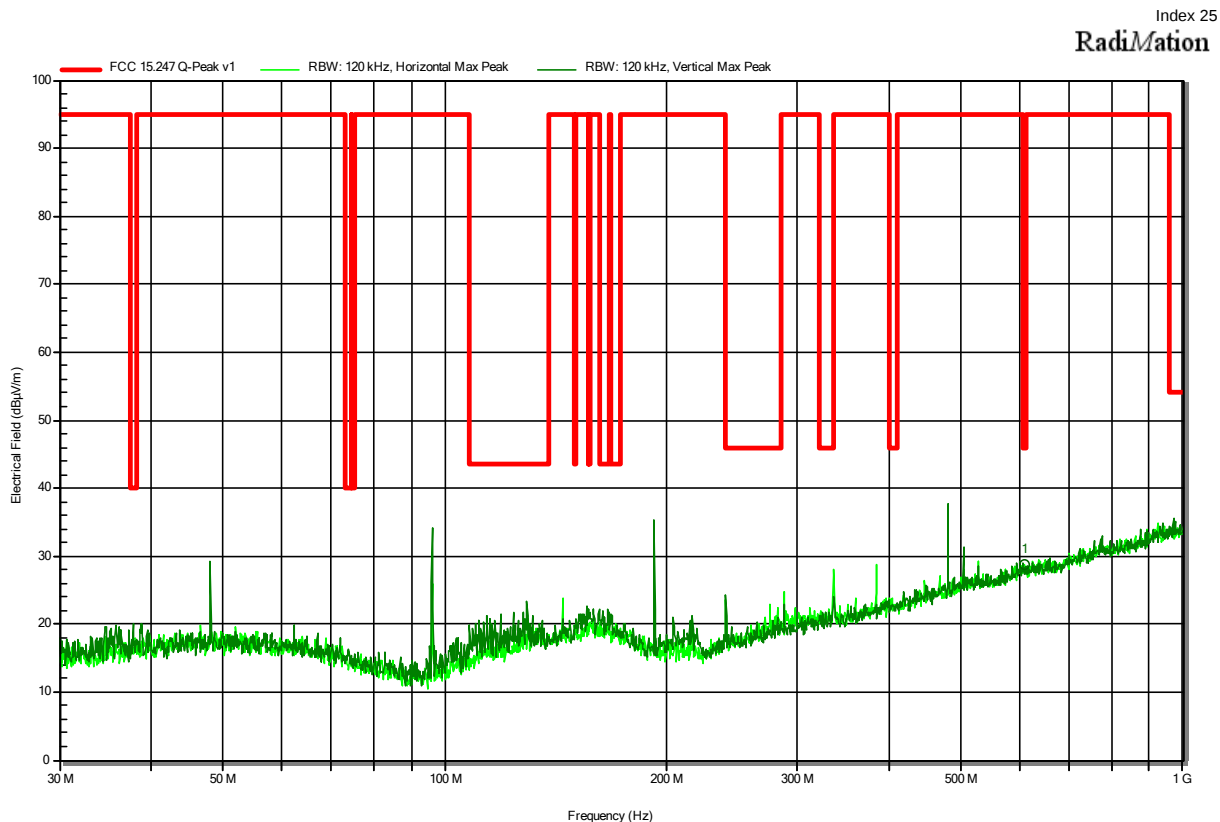
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; BLE, 2402 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-13
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
129.2552 MHz	23.9 dBμV/m	43.5 dBμV/m	-19.58 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

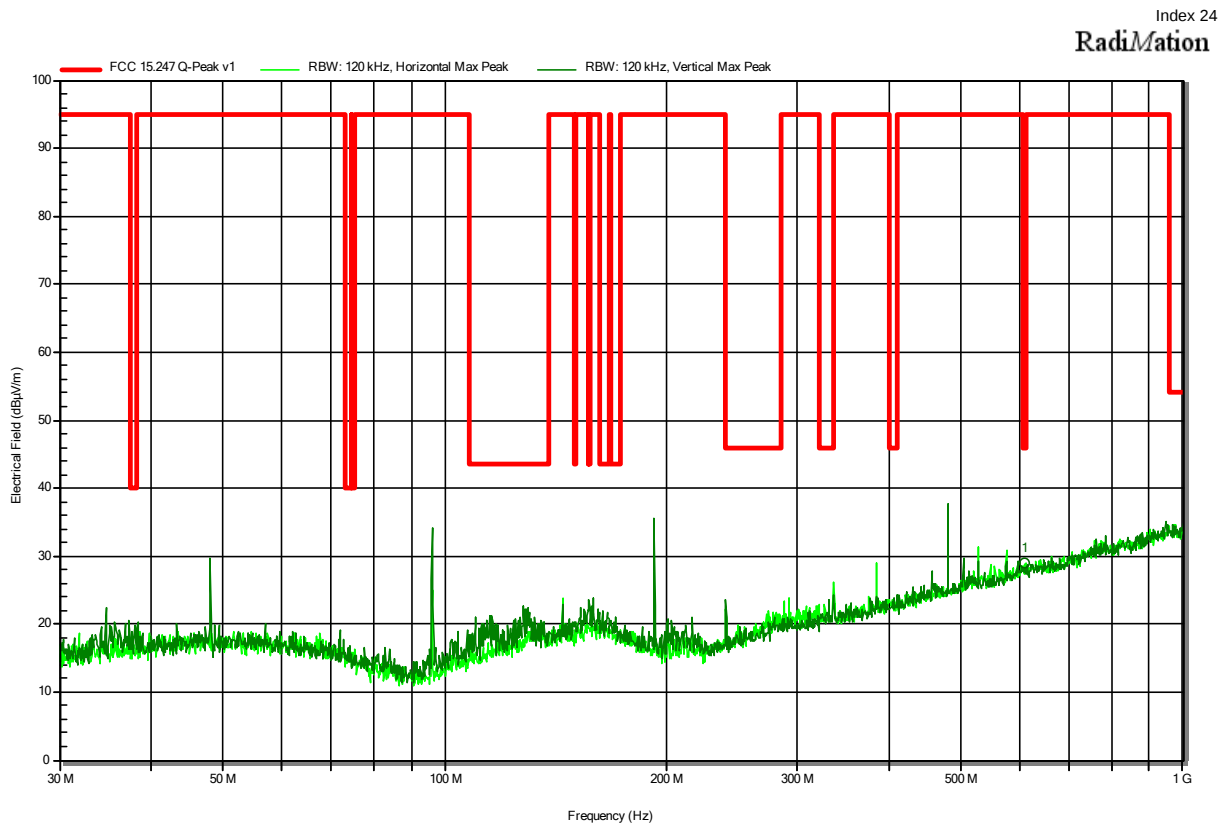
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; BLE, 2440 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-13
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
608.8718 MHz	28.7 dBμV/m	46 dBμV/m	-17.32 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

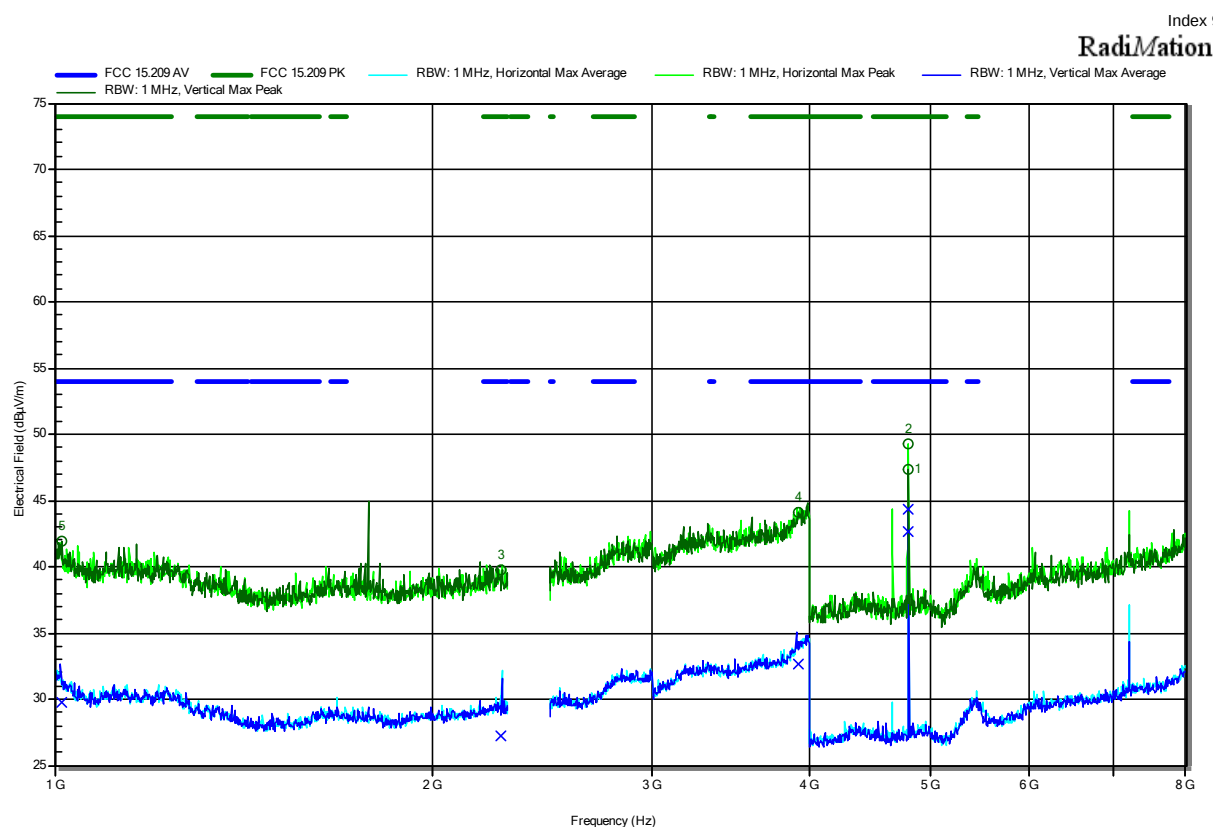
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; BLE, 2480 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-13
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
611.2483 MHz	29 dBμV/m	46 dBμV/m	-17.01 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2402 MHz, 1Mbps, PRBS9, 229 Bytes, DC 63%, Pmax
 Test Date: 2023-03-02
 Note: EUT vertical

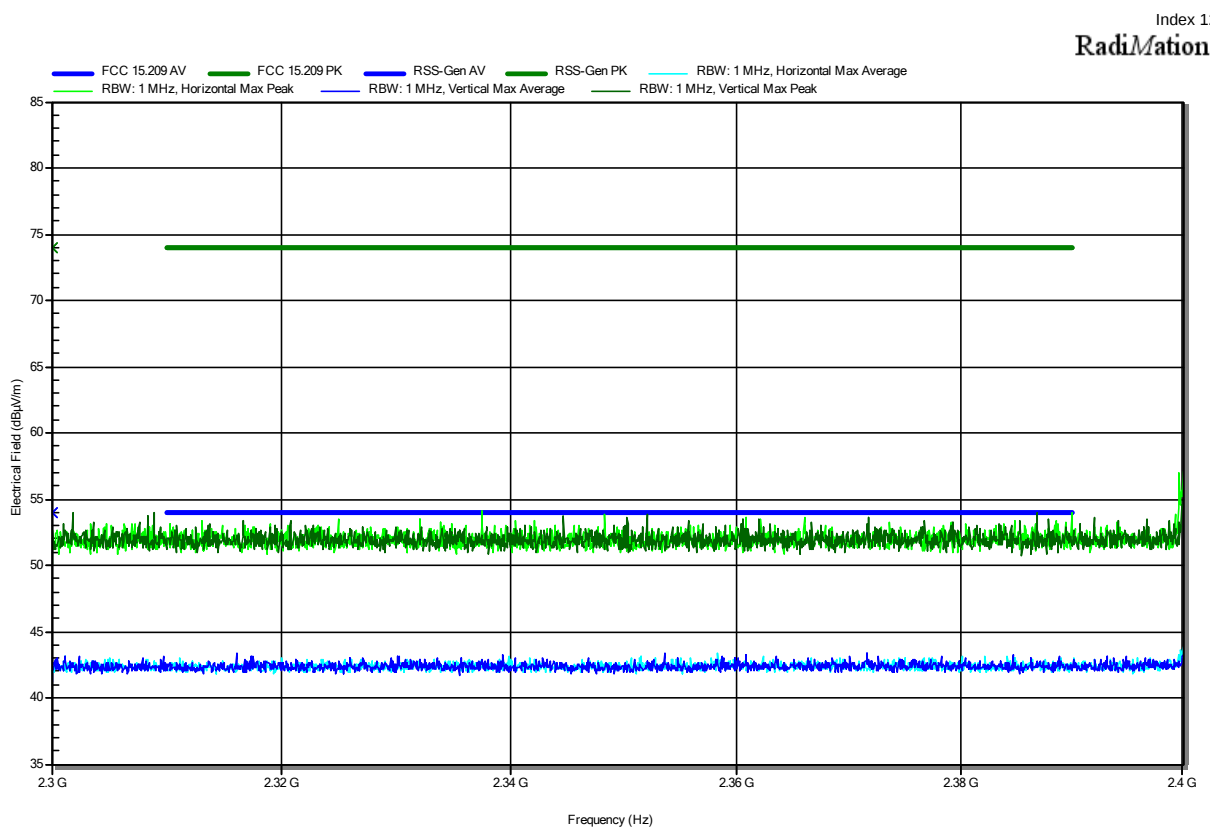


Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.0134 GHz	41.91 dBμV/m	74 dBμV/m	-32.09 dB	Pass	Vertical
2.2741 GHz	39.81 dBμV/m	74 dBμV/m	-34.19 dB	Pass	Vertical
3.9237 GHz	44.06 dBμV/m	74 dBμV/m	-29.94 dB	Pass	Vertical
4.8037 GHz	47.33 dBμV/m	74 dBμV/m	-26.67 dB	Pass	Vertical
4.804 GHz	49.24 dBμV/m	74 dBμV/m	-24.76 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
1.0134 GHz	29.72 dBμV/m	54 dBμV/m	-24.28 dB	Pass	Vertical
2.2741 GHz	27.26 dBμV/m	54 dBμV/m	-26.74 dB	Pass	Vertical
3.9237 GHz	32.6 dBμV/m	54 dBμV/m	-21.4 dB	Pass	Vertical
4.8037 GHz	44.35 dBμV/m	54 dBμV/m	-9.65 dB	Pass	Vertical
4.804 GHz	42.69 dBμV/m	54 dBμV/m	-11.31 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2402 MHz, 1Mbps, PRBS9, 225 Bytes, DC 63%, Pmax
 Test Date: 2023-03-10
 Note: lower bandedge

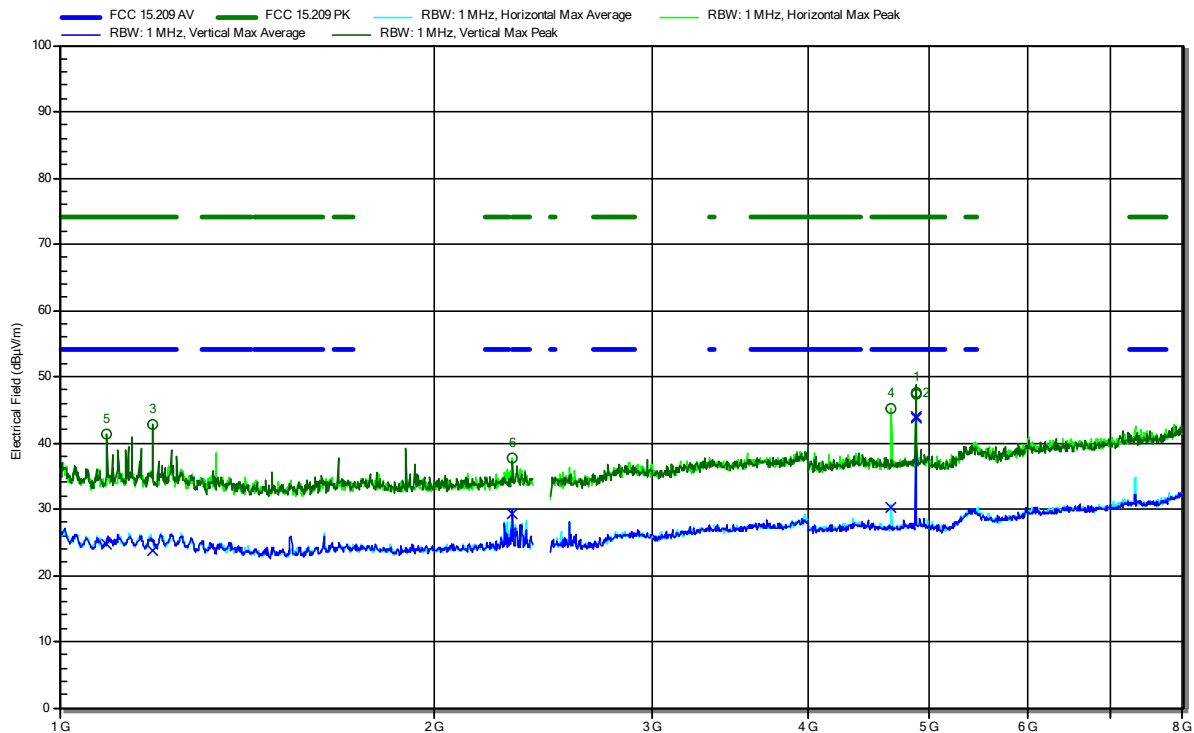


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2440 MHz, 1Mbps, PRBS9, 229 Bytes, DC 63%, Pmax
 Test Date: 2023-03-03
 Note: EUT vertical

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.0912 GHz	41.38 dBµV/m	74 dBµV/m	-32.62 dB	Pass	Vertical
1.1874 GHz	42.68 dBµV/m	74 dBµV/m	-31.32 dB	Pass	Vertical
2.3121 GHz	37.71 dBµV/m	74 dBµV/m	-36.29 dB	Pass	Horizontal
4.6619 GHz	45.14 dBµV/m	74 dBµV/m	-28.86 dB	Pass	Horizontal
4.8797 GHz	47.59 dBµV/m	74 dBµV/m	-26.41 dB	Pass	Vertical
4.88 GHz	47.24 dBµV/m	74 dBµV/m	-26.76 dB	Pass	Vertical
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
1.0912 GHz	24.68 dBµV/m	54 dBµV/m	-29.32 dB	Pass	Vertical
1.1874 GHz	23.71 dBµV/m	54 dBµV/m	-30.29 dB	Pass	Vertical
2.3121 GHz	29.35 dBµV/m	54 dBµV/m	-24.65 dB	Pass	Horizontal
4.6619 GHz	30.23 dBµV/m	54 dBµV/m	-23.77 dB	Pass	Horizontal
4.8797 GHz	44 dBµV/m	54 dBµV/m	-10 dB	Pass	Vertical
4.88 GHz	43.84 dBµV/m	54 dBµV/m	-10.16 dB	Pass	Vertical

Test Report No.: G0M-2302-1878-TFC247BL-V03

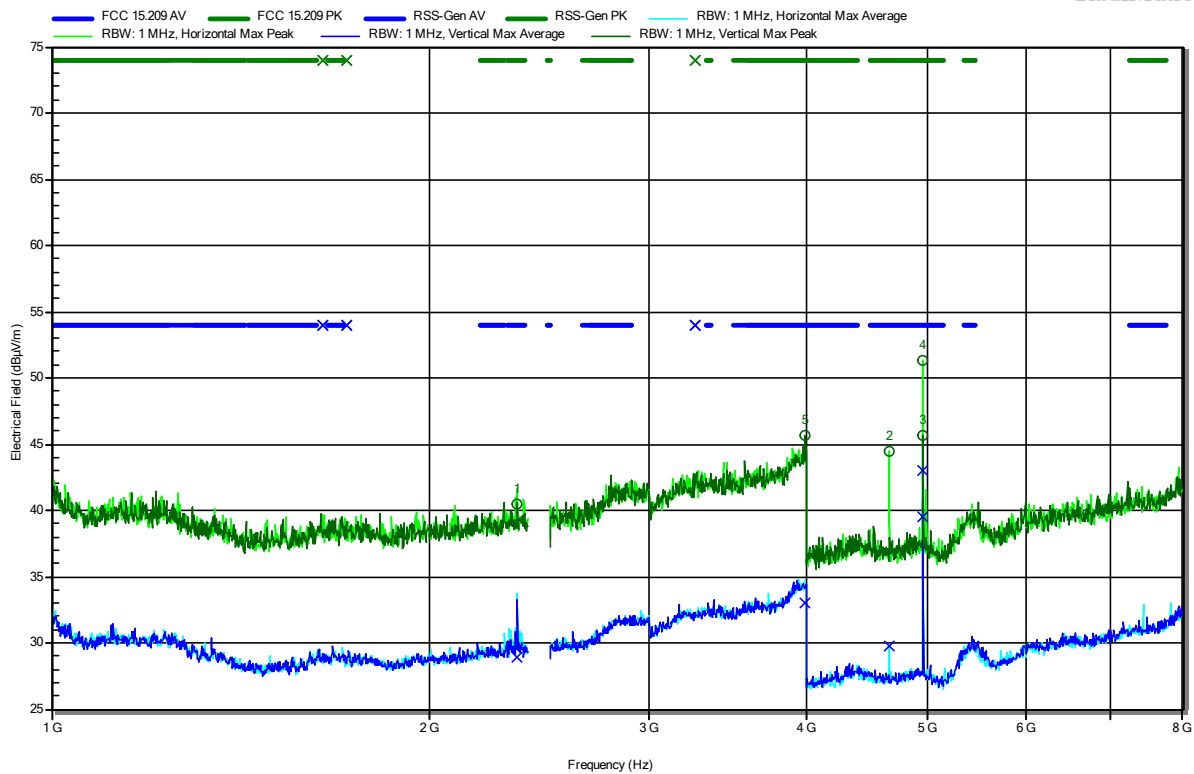
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2480 MHz, 1Mbps, PRBS9, 229 Bytes, DC 63%, Pmax
 Test Date: 2023-03-03
 Note: EUT vertical

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RadiMation



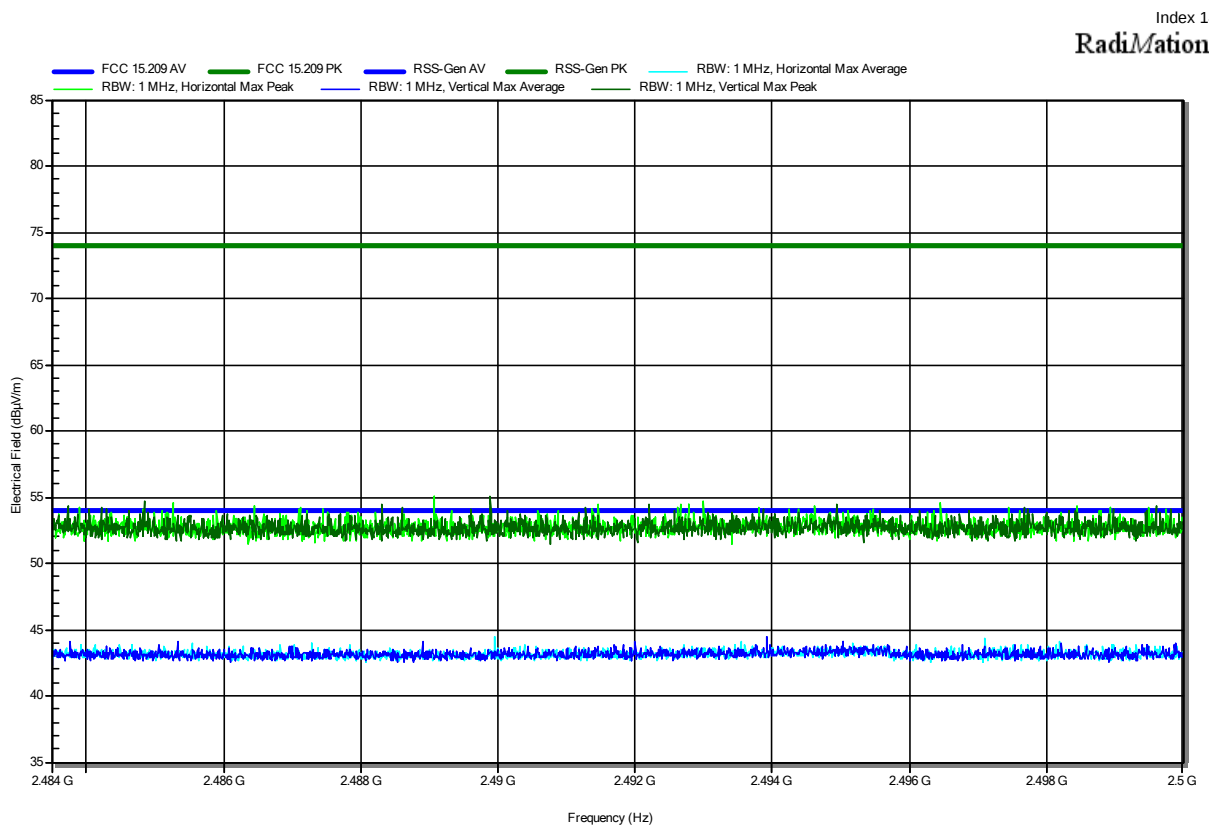
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.352 GHz	40.53 dBμV/m	74 dBμV/m	-33.47 dB	Pass	Vertical
3.995 GHz	45.64 dBμV/m	74 dBμV/m	-28.36 dB	Pass	Vertical
4.662 GHz	44.46 dBμV/m	74 dBμV/m	-29.54 dB	Pass	Horizontal
4.96 GHz	45.67 dBμV/m	74 dBμV/m	-28.33 dB	Pass	Vertical
4.96 GHz	51.28 dBμV/m	74 dBμV/m	-22.72 dB	Pass	Horizontal
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.352 GHz	28.98 dBμV/m	54 dBμV/m	-25.02 dB	Pass	Vertical
3.995 GHz	32.98 dBμV/m	54 dBμV/m	-21.02 dB	Pass	Vertical
4.662 GHz	29.76 dBμV/m	54 dBμV/m	-24.24 dB	Pass	Horizontal
4.96 GHz	39.57 dBμV/m	54 dBμV/m	-14.43 dB	Pass	Vertical
4.96 GHz	42.98 dBμV/m	54 dBμV/m	-11.02 dB	Pass	Horizontal

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

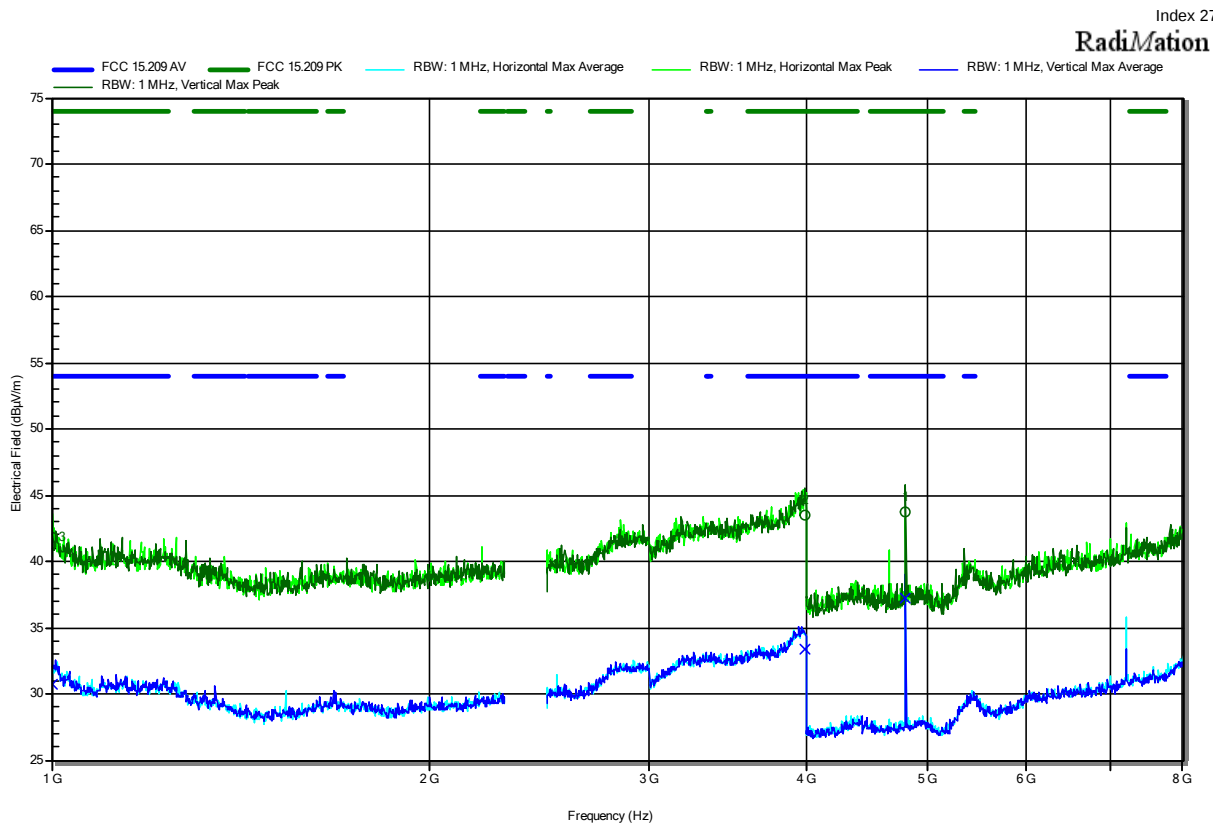
Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2480 MHz, 1Mbps, PRBS9, 225 Bytes, DC 63%, Pmax
 Test Date: 2023-03-10
 Note: upper bandedge



Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2402 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-13
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.0019 GHz	41.77 dBµV/m	74 dBµV/m	-32.23 dB	Pass	Vertical
3.9999 GHz	43.48 dBµV/m	74 dBµV/m	-30.52 dB	Pass	Vertical
4.8051 GHz	43.68 dBµV/m	74 dBµV/m	-30.32 dB	Pass	Vertical

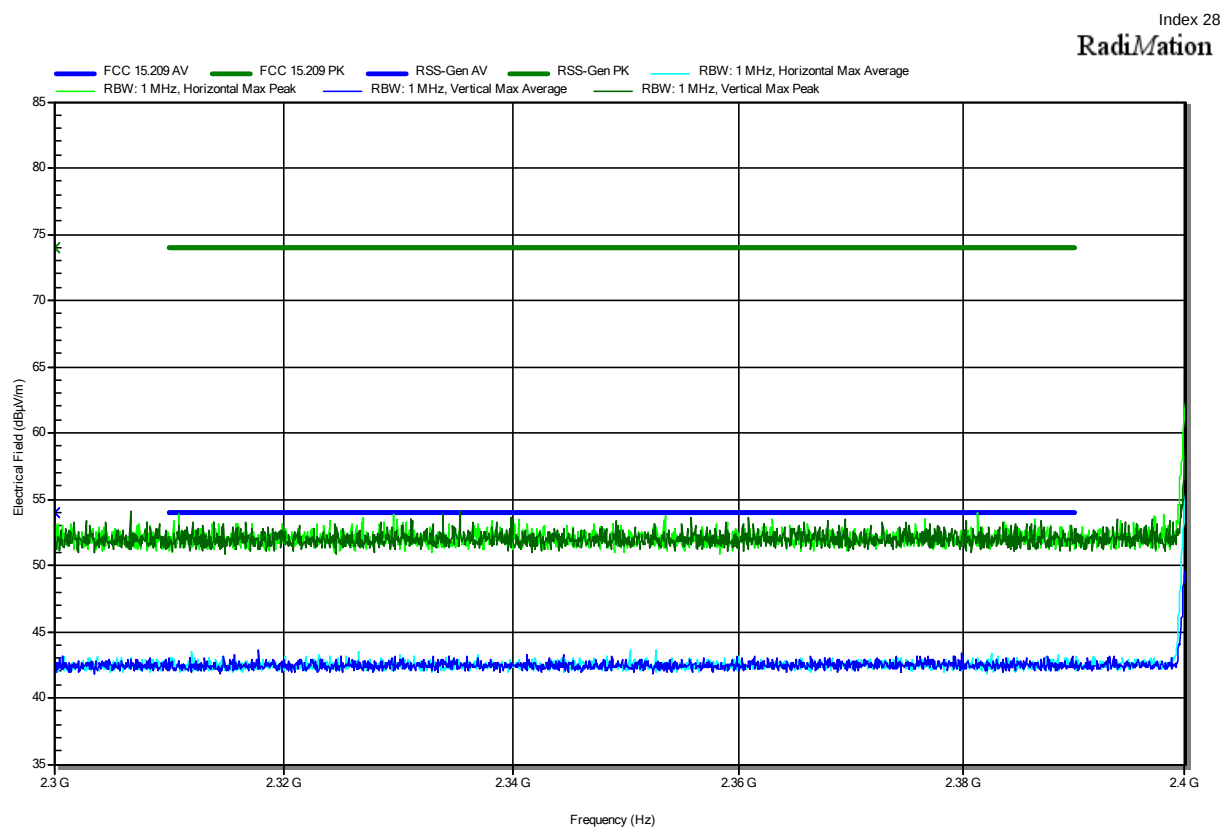
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
1.0019 GHz	30.77 dBµV/m	54 dBµV/m	-23.23 dB	Pass	Vertical
3.9999 GHz	33.34 dBµV/m	54 dBµV/m	-20.66 dB	Pass	Vertical
4.8051 GHz	37.21 dBµV/m	54 dBµV/m	-16.79 dB	Pass	Vertical

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2402 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-13
 Note: lower bandedge

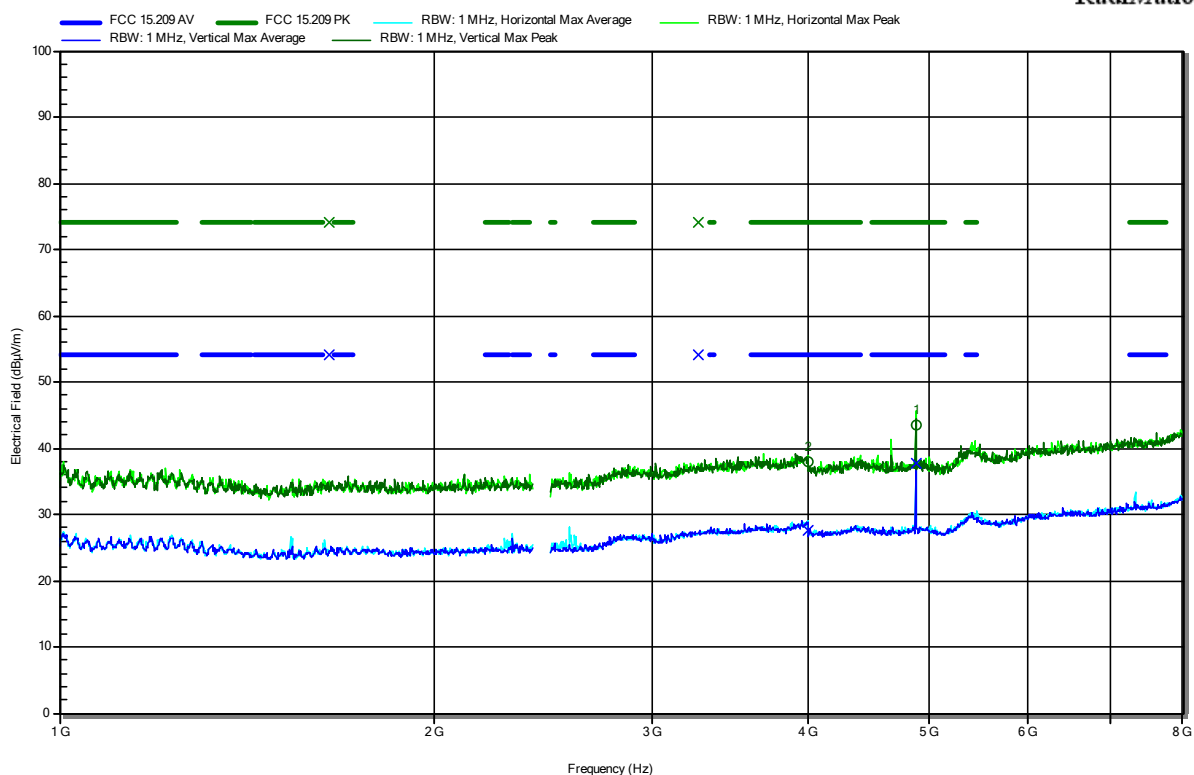


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2440 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-13
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
3.9953 GHz	37.86 dBμV/m	74 dBμV/m	-36.14 dB	Pass	Vertical
4.8811 GHz	43.52 dBμV/m	74 dBμV/m	-30.48 dB	Pass	Vertical

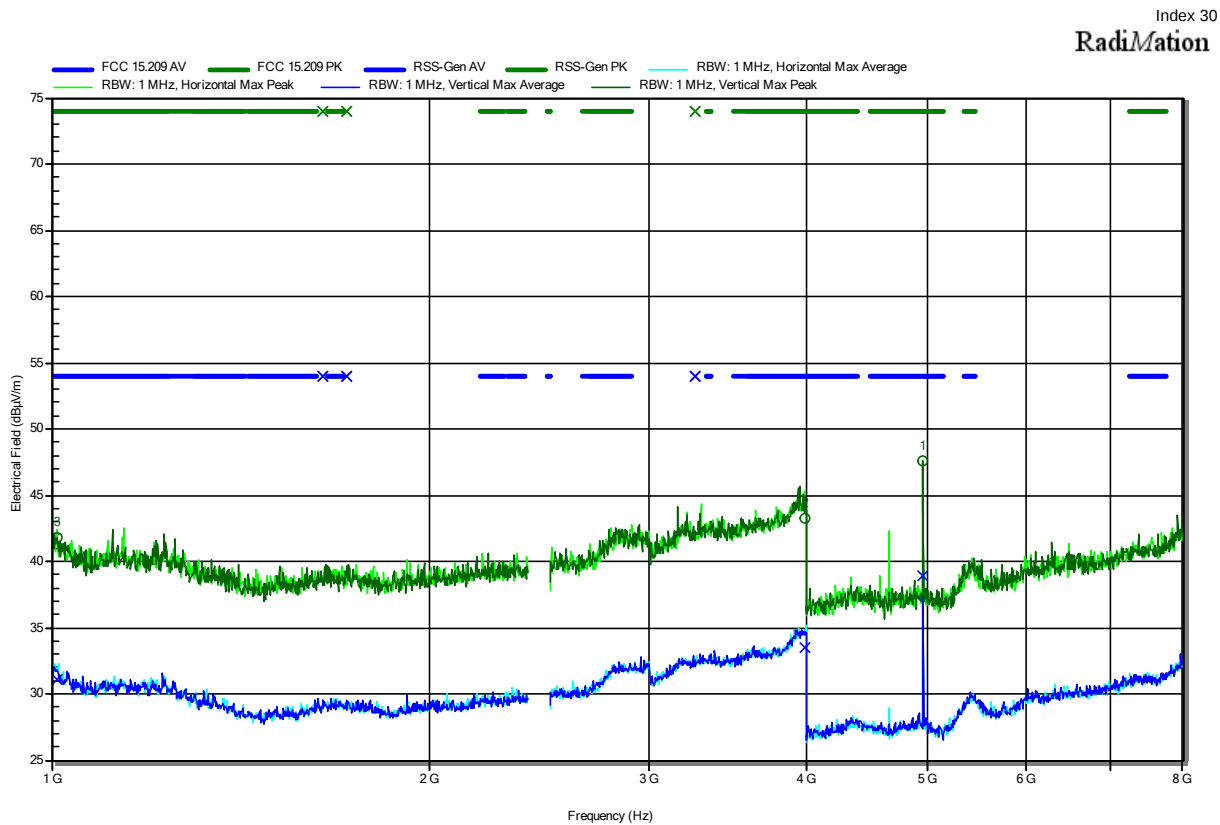
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
3.9953 GHz	27.65 dBμV/m	54 dBμV/m	-26.35 dB	Pass	Vertical
4.8811 GHz	37.62 dBμV/m	54 dBμV/m	-16.38 dB	Pass	Vertical

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2480 MHz, 2Mbps, PRBS9, 255 Bytes, DC 68%, Pmax
 Test Date: 2023-03-13
 Note:



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.011 GHz	41.84 dBµV/m	74 dBµV/m	-32.16 dB	Pass	Vertical
4 GHz	43.28 dBµV/m	74 dBµV/m	-30.72 dB	Pass	Vertical
4.96 GHz	47.55 dBµV/m	74 dBµV/m	-26.45 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
1.011 GHz	31.09 dBµV/m	54 dBµV/m	-22.91 dB	Pass	Vertical
4 GHz	33.46 dBµV/m	54 dBµV/m	-20.54 dB	Pass	Vertical
4.96 GHz	38.88 dBµV/m	54 dBµV/m	-15.12 dB	Pass	Vertical

Test Report No.: G0M-2302-1878-TFC247BL-V03

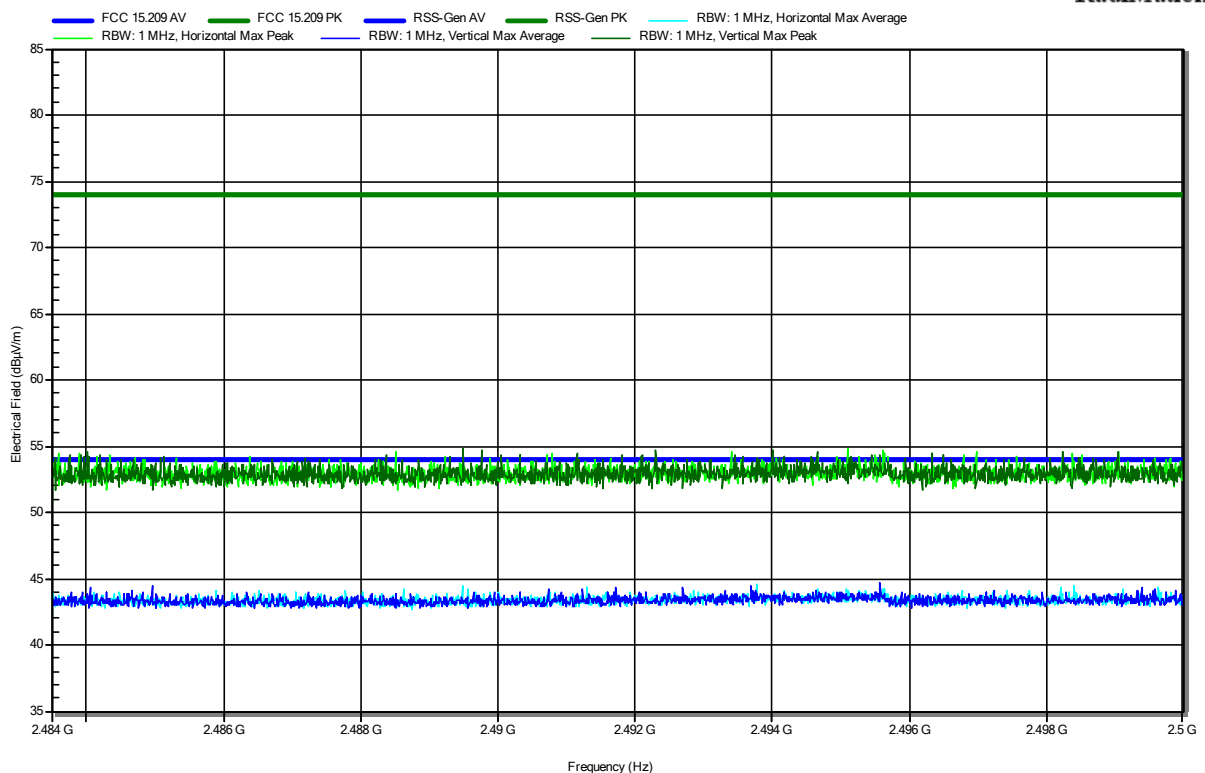
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; BLE, 2480 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-17
 Note: upper bandedge

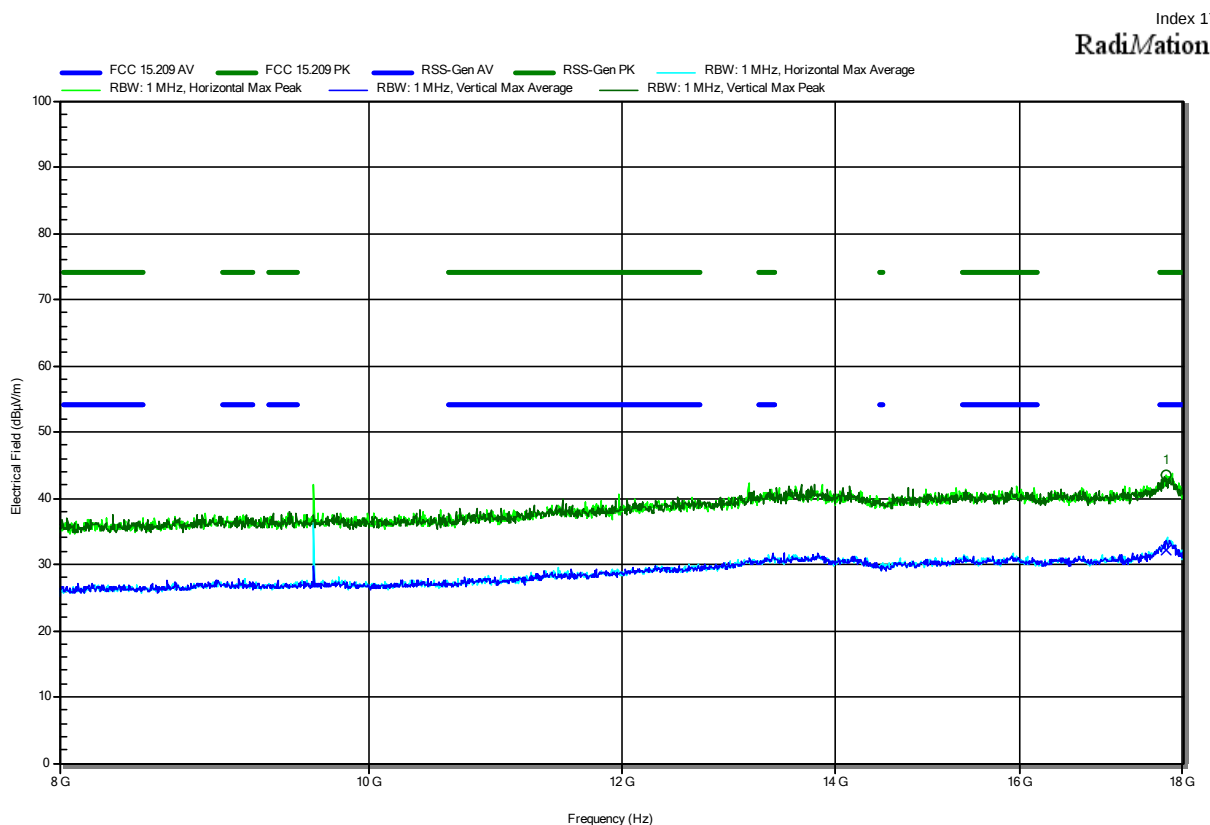
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RadiMation



Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

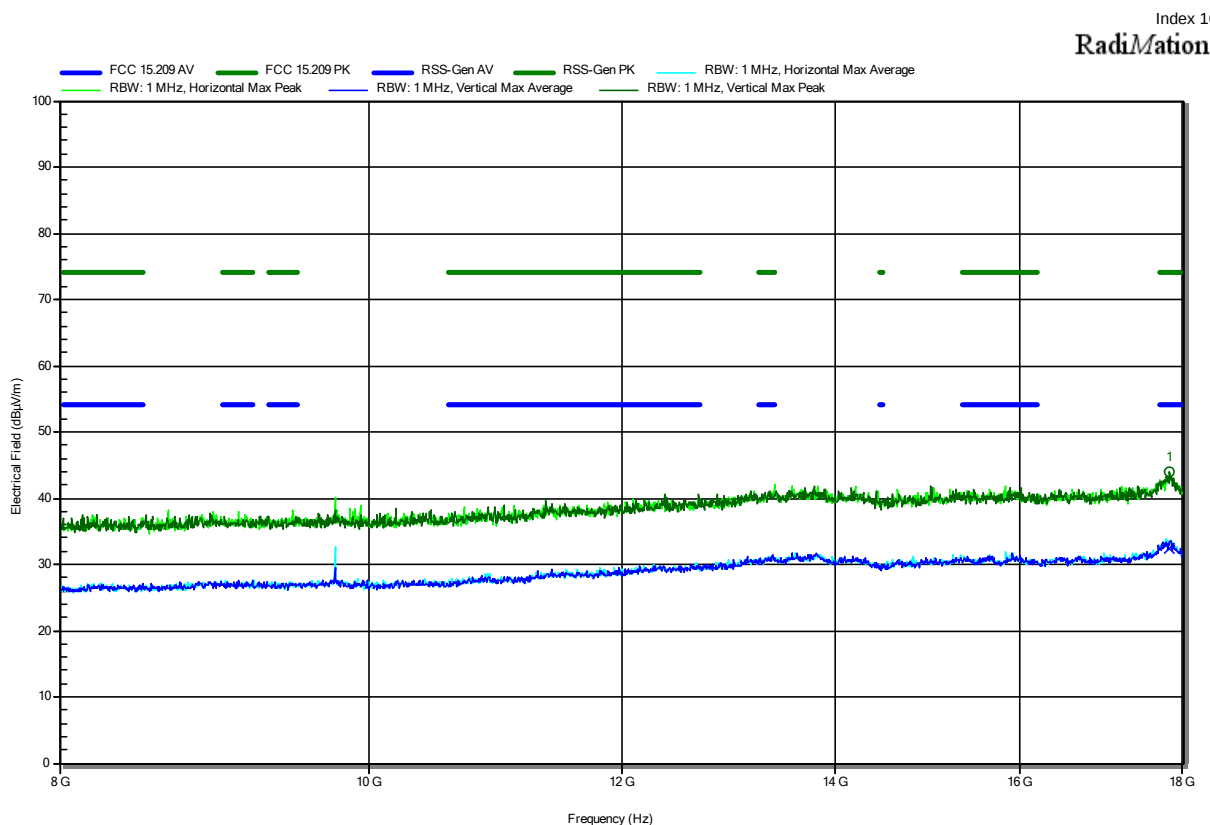
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 2402 MHz, 1Mbps, PRBS9, 225 Bytes, DC 63%, Pmax
 Test Date: 2023-03-10
 Note: EUT Vertical



Frequency 17.784 GHz	Peak 43.6 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -30.4 dB	Peak Status Pass	Polarization Horizontal
Frequency 17.784 GHz	Average 32.06 dBµV/m	Average Limit 54 dBµV/m	Average Difference -21.94 dB	Average Status Pass	Polarization Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 2440 MHz, 1Mbps, PRBS9, 225 Bytes, DC 63%, Pmax
 Test Date: 2023-03-10
 Note: EUT Vertical



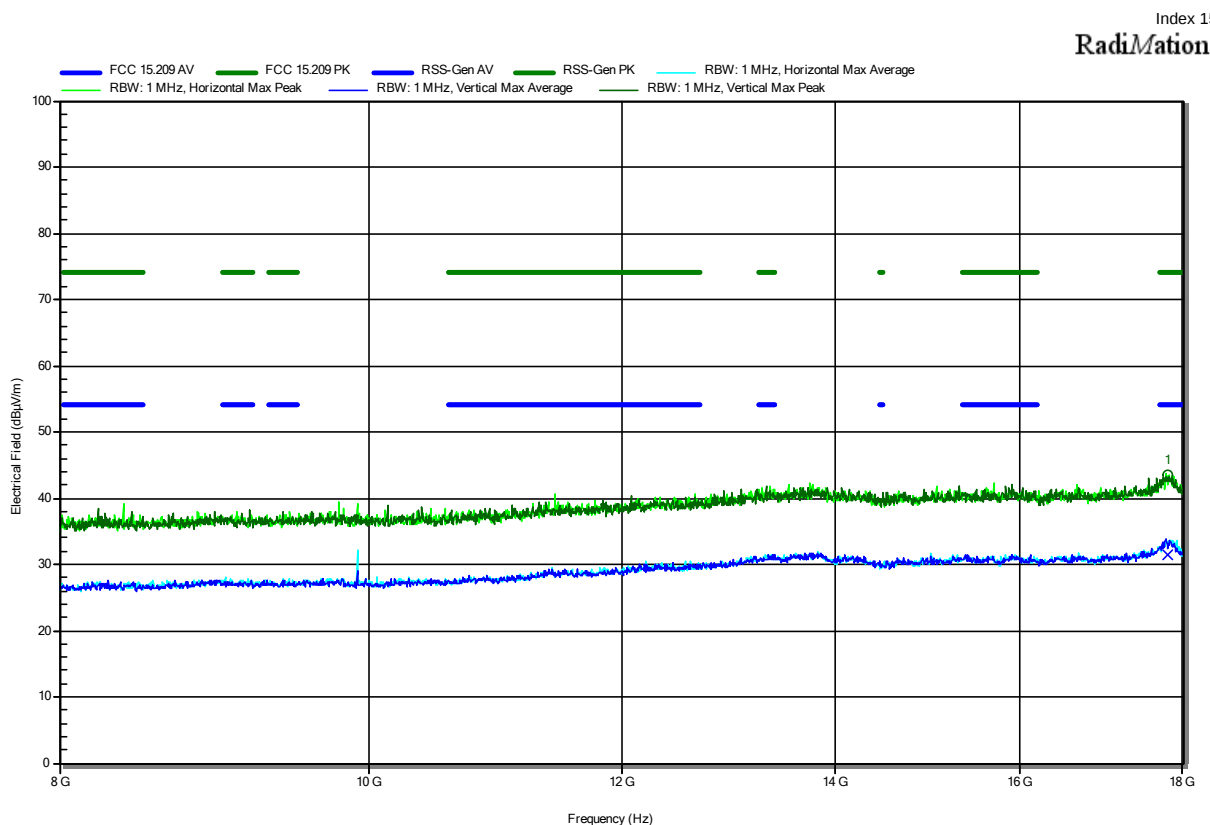
Frequency 17.83 GHz	Peak 43.92 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -30.08 dB	Peak Status Pass	Polarization Vertical
Frequency 17.83 GHz	Average 32.34 dBµV/m	Average Limit 54 dBµV/m	Average Difference -21.66 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

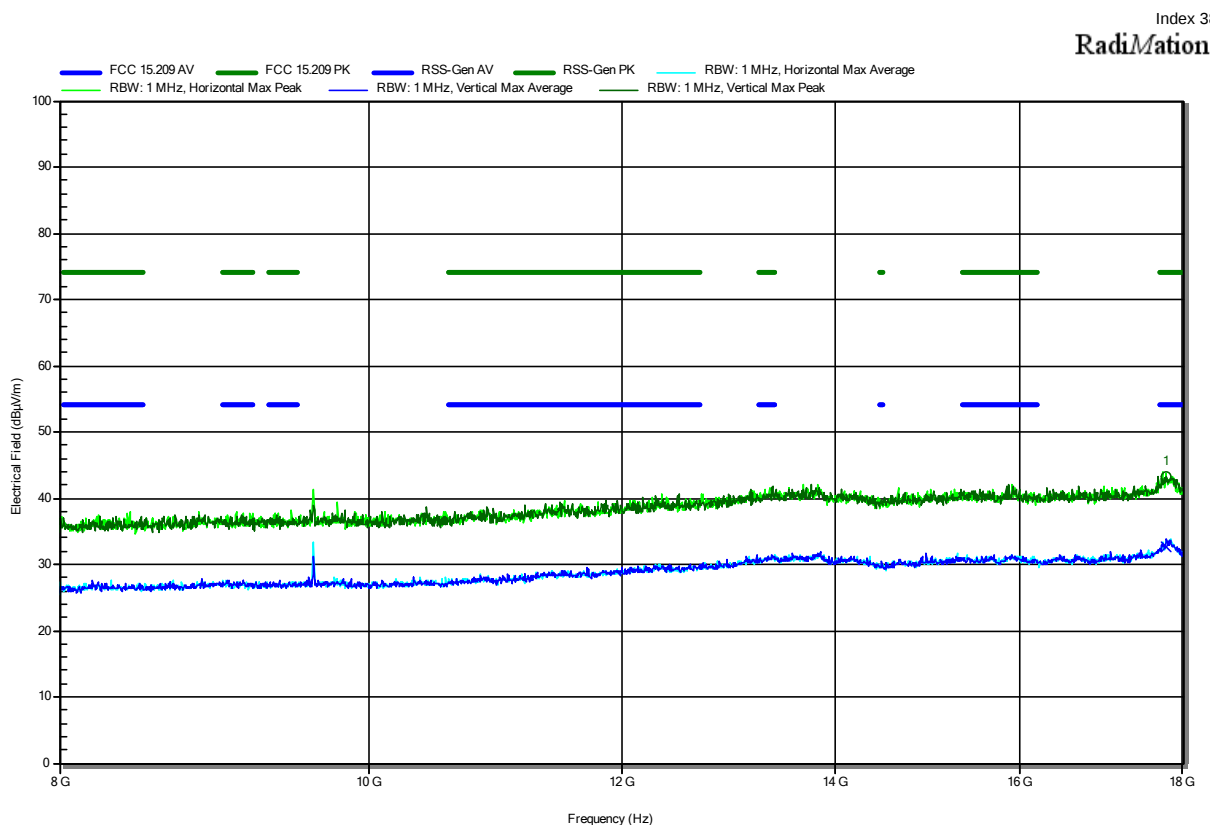
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 2480 MHz, 1Mbps, PRBS9, 225 Bytes, DC 63%, Pmax
 Test Date: 2023-03-10
 Note: EUT Vertical



Frequency 17.813 GHz	Peak 43.48 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -30.52 dB	Peak Status Pass	Polarization Horizontal
Frequency 17.813 GHz	Average 31.48 dBµV/m	Average Limit 54 dBµV/m	Average Difference -22.52 dB	Average Status Pass	Polarization Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 2402 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-17
 Note:



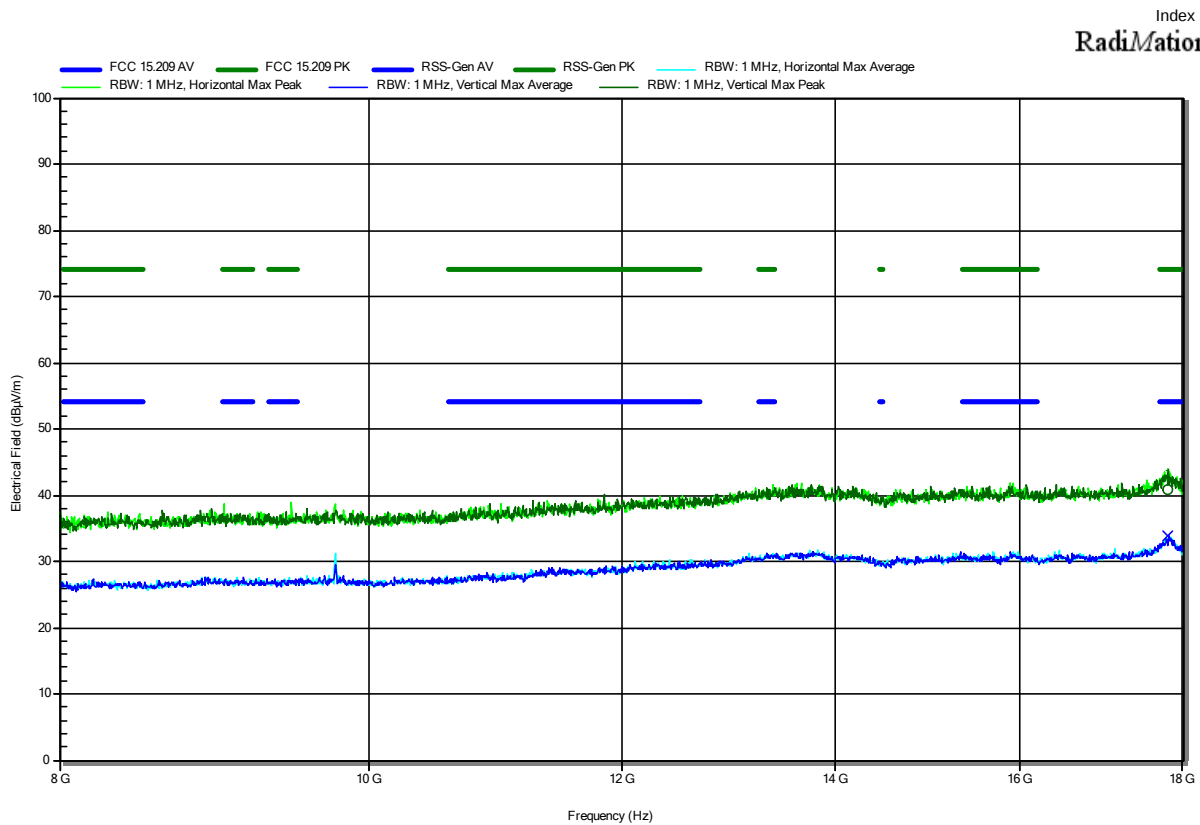
Frequency 17.786 GHz	Peak 43.27 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -30.73 dB	Peak Status Pass	Polarization Vertical
Frequency 17.786 GHz	Average 32.6 dBμV/m	Average Limit 54 dBμV/m	Average Difference -21.4 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

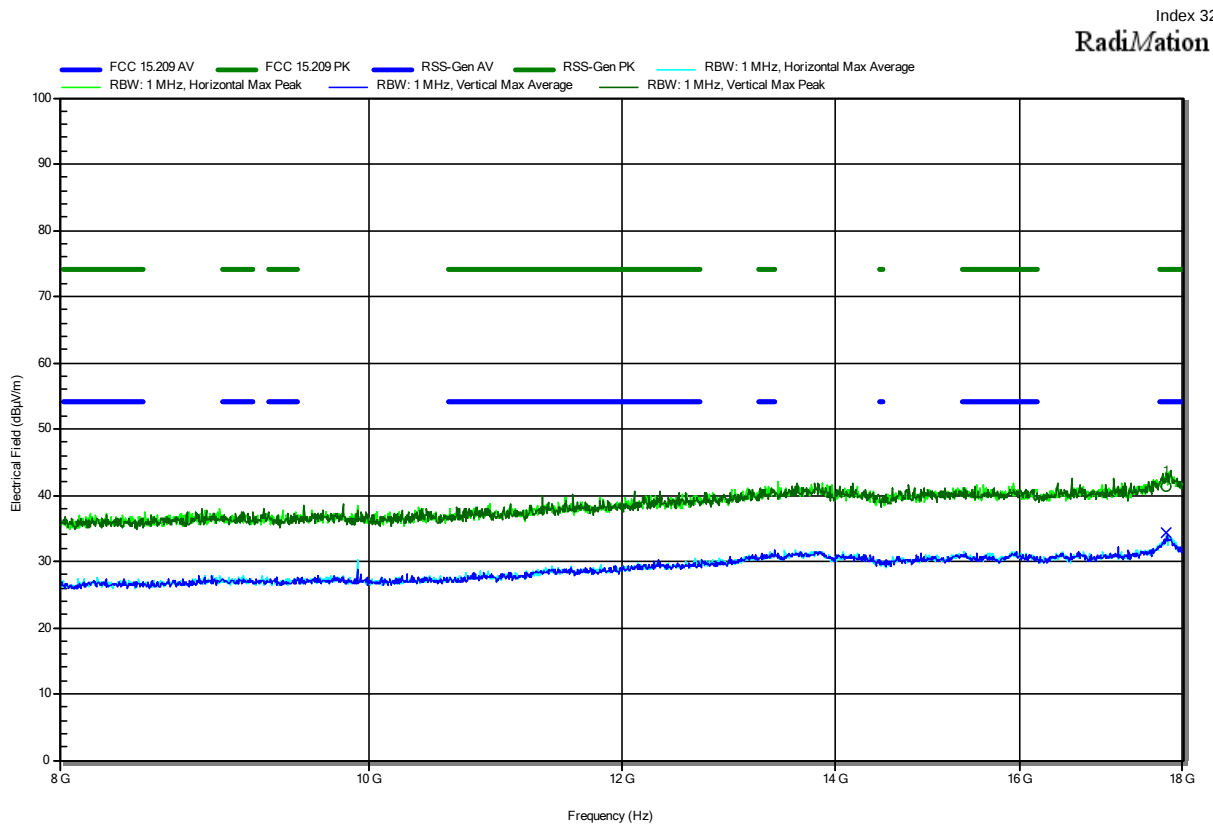
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 2440 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-13
 Note:



Frequency 17.813 GHz	Peak 40.88 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -33.12 dB	Peak Status Pass	Polarization Vertical
Frequency 17.813 GHz	Average 33.84 dBµV/m	Average Limit 54 dBµV/m	Average Difference -20.16 dB	Average Status Pass	Polarization Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

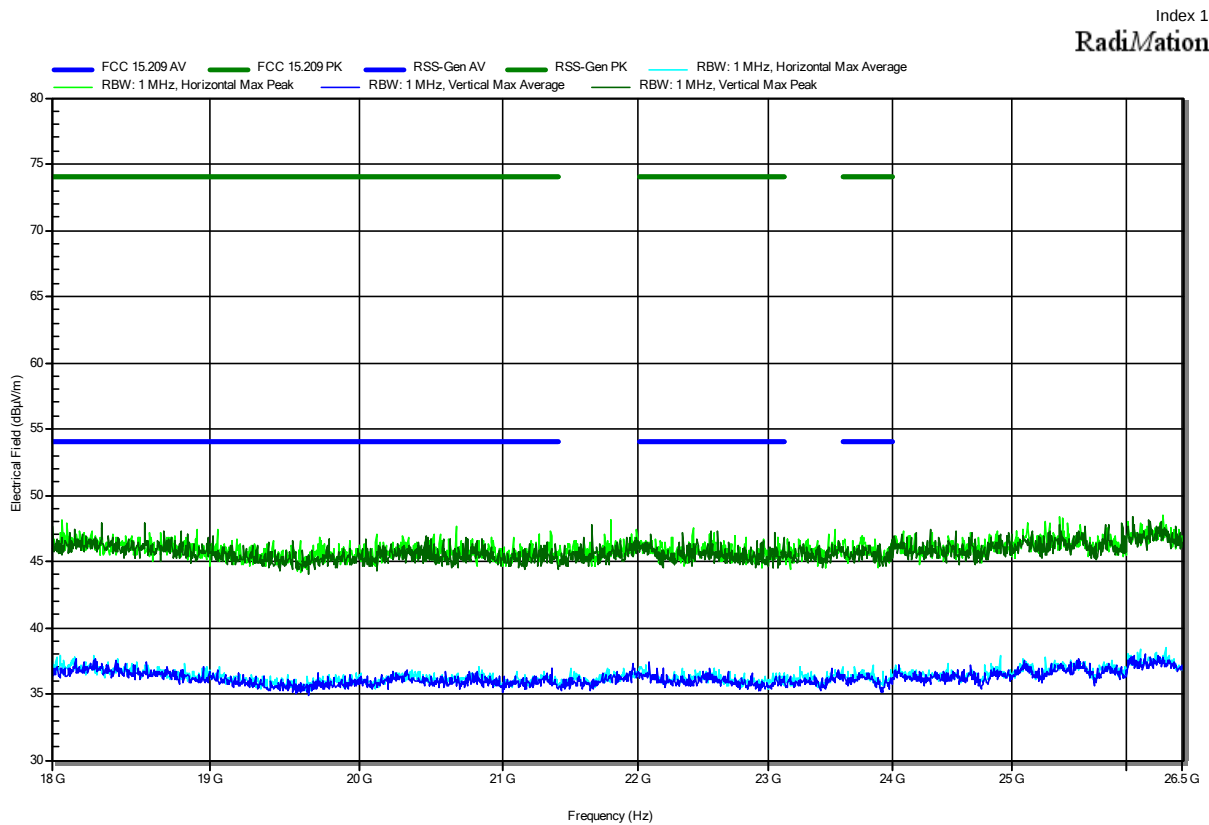
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; BLE, 2480 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-13
 Note:



Frequency 17.788 GHz	Peak 41.35 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -32.65 dB	Peak Status Pass	Polarization Vertical
Frequency 17.788 GHz	Average 34.22 dBµV/m	Average Limit 54 dBµV/m	Average Difference -19.78 dB	Average Status Pass	Polarization Vertical

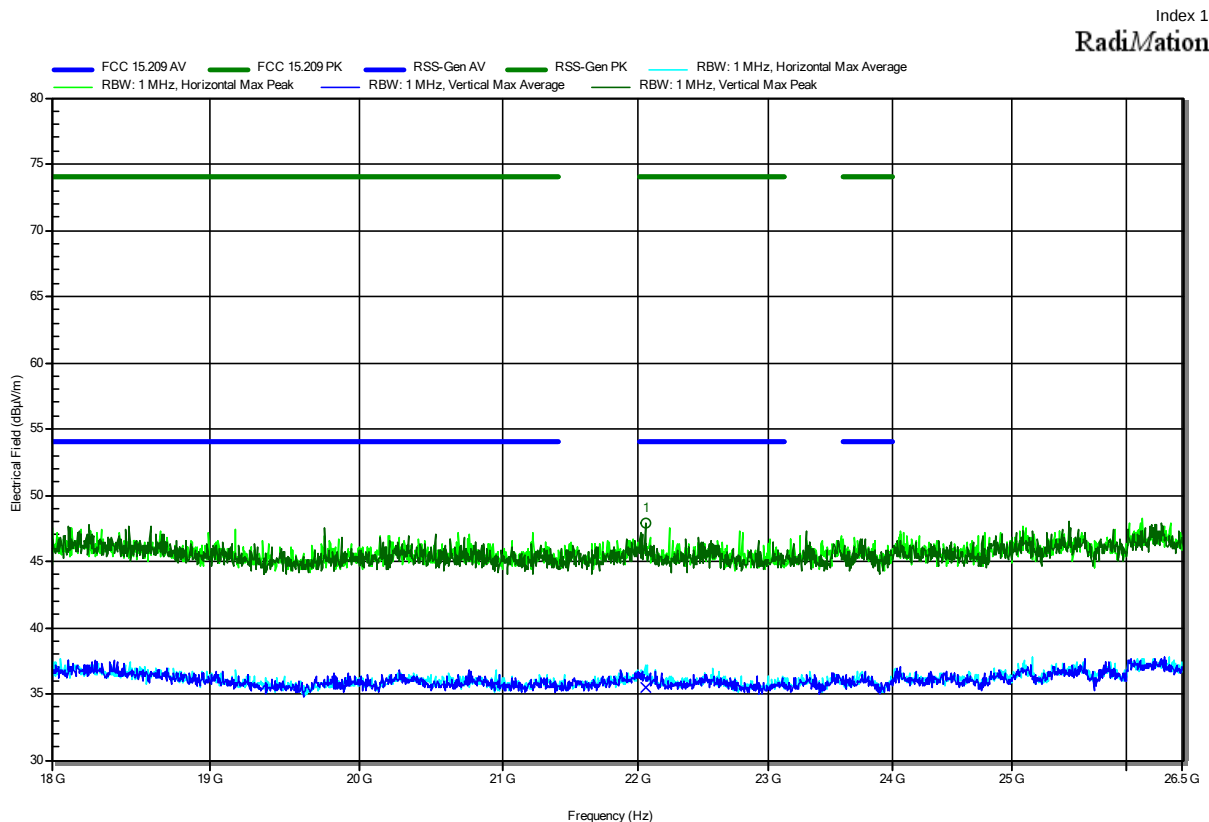
Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.6 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 2402 MHz, 1Mbps, PRBS9, 225 Bytes, DC 63%, Pmax
 Test Date: 2023-03-10
 Note: EUT Vertical



Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

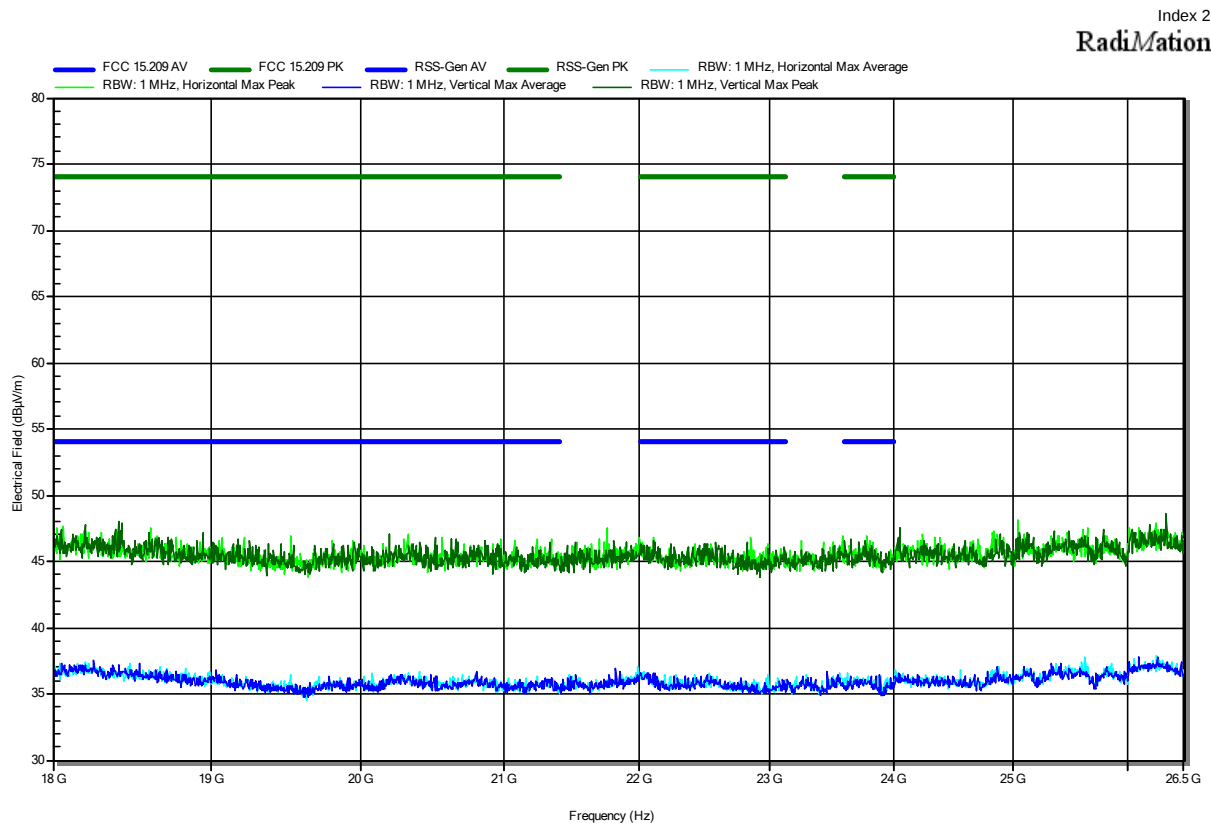
Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.6 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 2440 MHz, 1Mbps, PRBS9, 225 Bytes, DC 63%, Pmax
 Test Date: 2023-03-10
 Note: EUT Vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
22.05 GHz	47.93 dBµV/m	74 dBµV/m	-26.07 dB	Pass	Vertical
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
22.05 GHz	35.46 dBµV/m	54 dBµV/m	-18.54 dB	Pass	Vertical

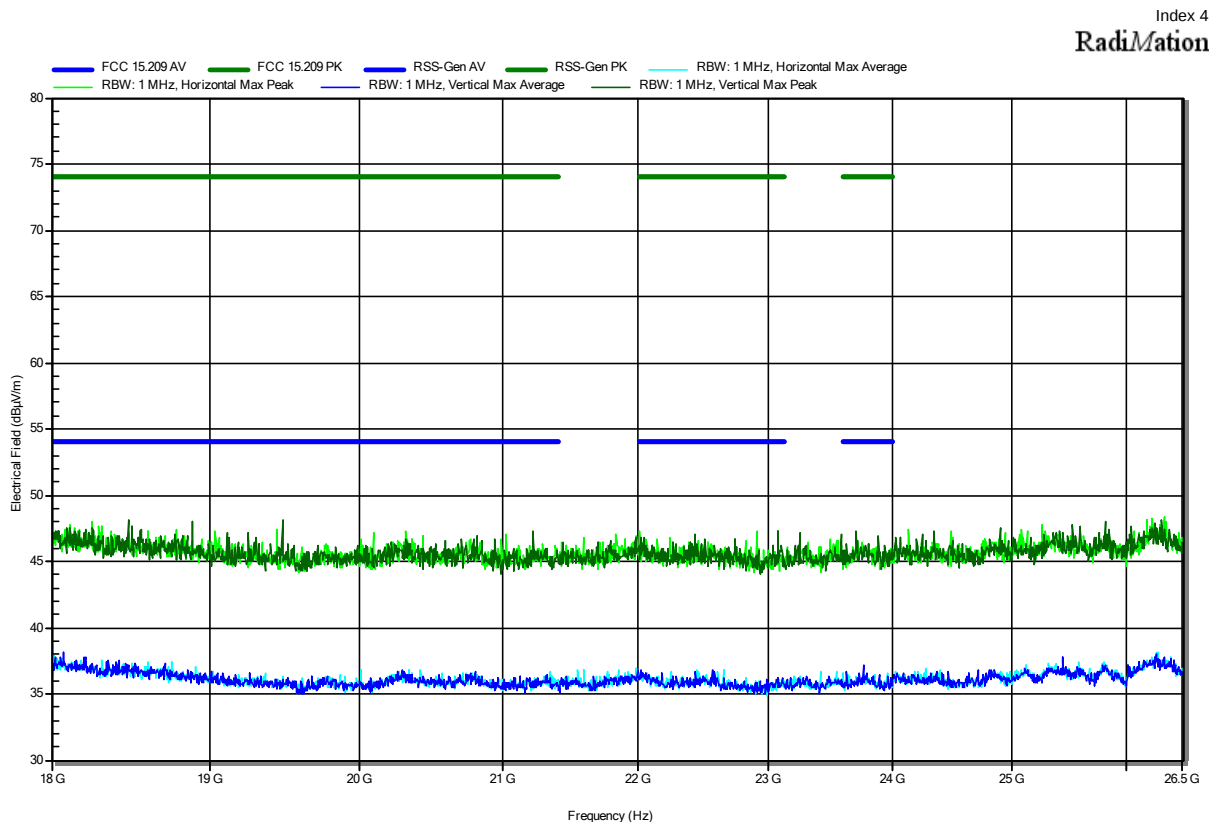
Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 3.6 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 2480 MHz, 1Mbps, PRBS9, 225 Bytes, DC 63%, Pmax
 Test Date: 2023-03-10
 Note: EUT Vertical



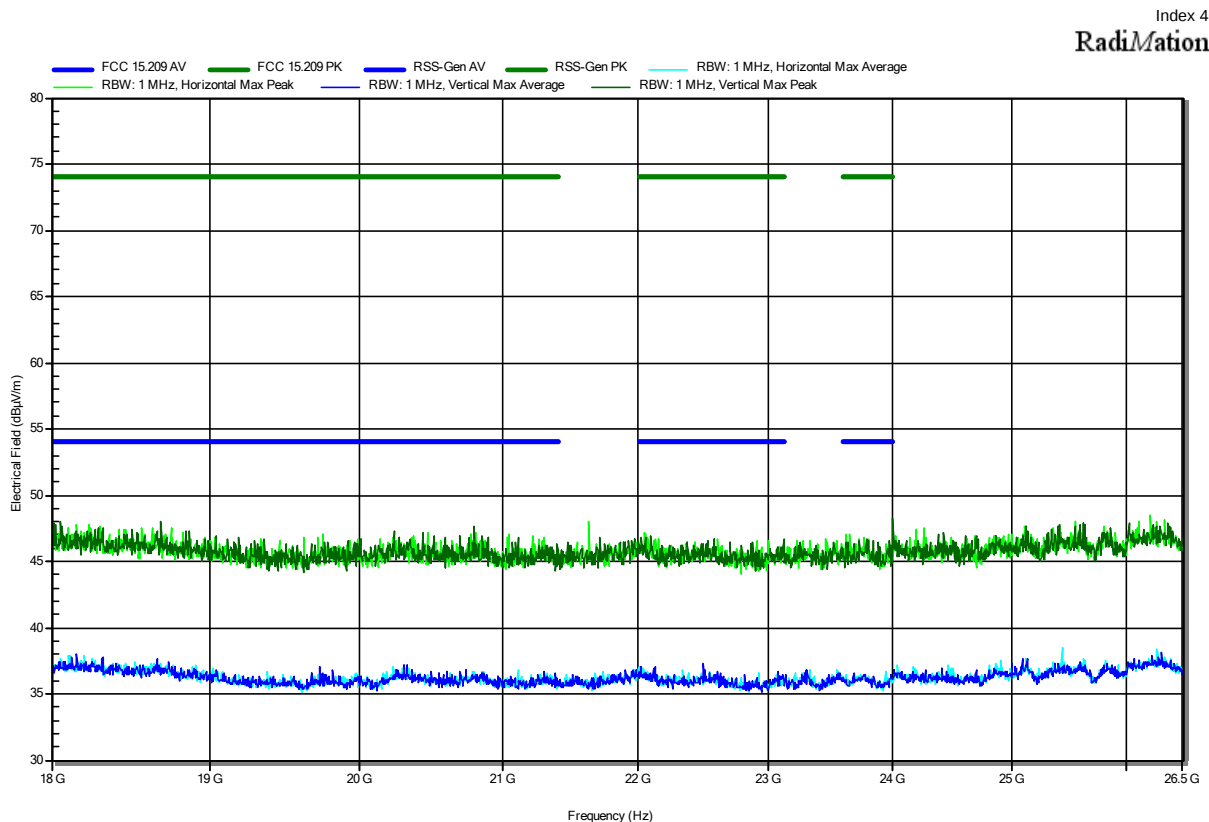
Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 2402 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-17
 Note:



Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 2440 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-17
 Note:

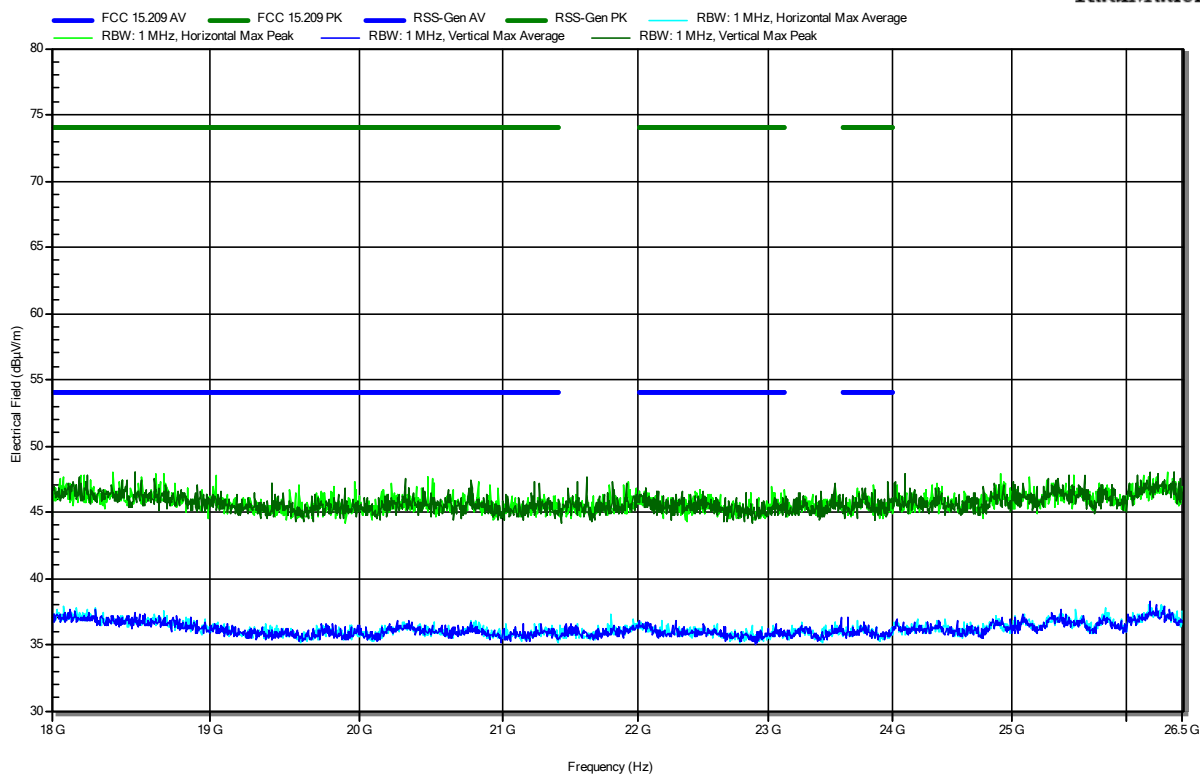


Radiated Spurious Emissions according to 47 CFR Part 15.247, RSS-247

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 23 °Celsius, Vnom: 3.6 VDC
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; BLE, 2480 MHz, 2Mbps, PRBS9, 255 Bytes, DC 63%, Pmax
 Test Date: 2023-03-17
 Note:

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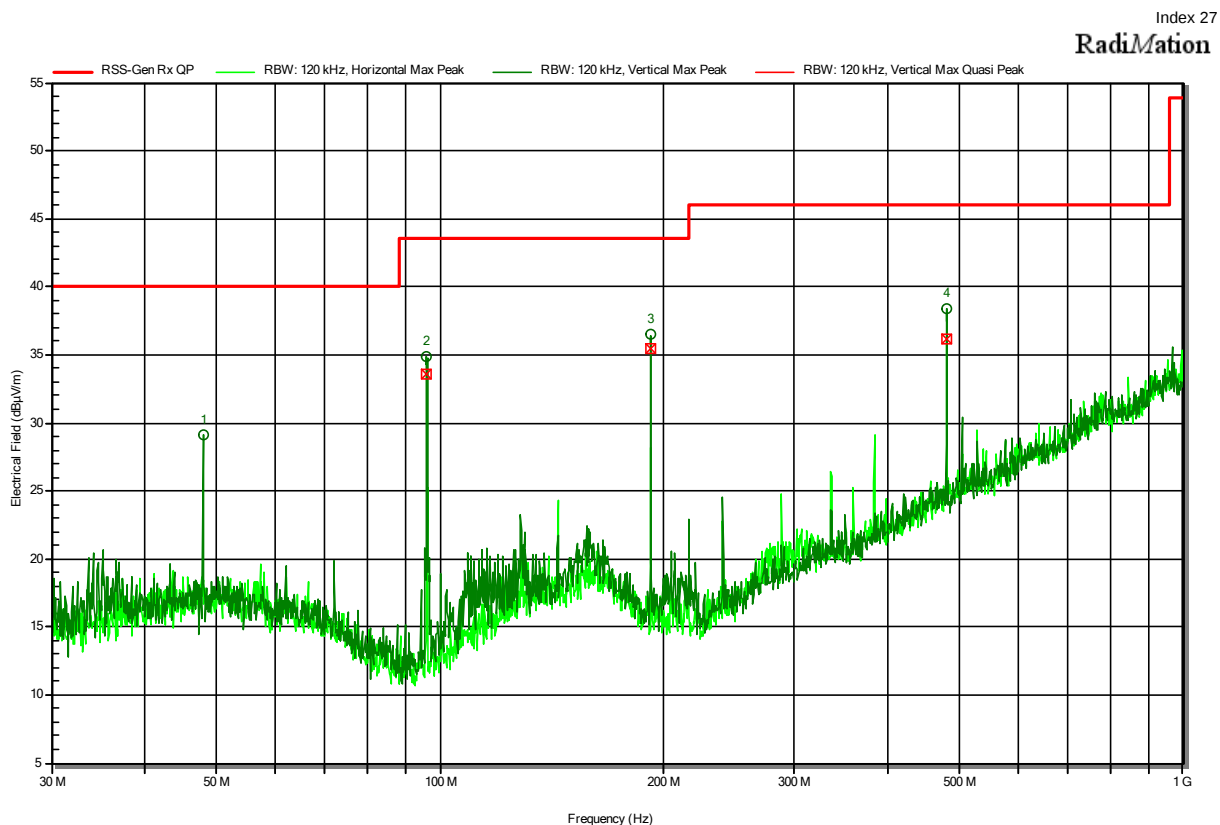
RadiMation



ANNEX B Receiver spurious emissions

Radiated Spurious Emissions according to RSS-247 Issue 3, RSS-Gen Issue 5

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Rx; BLE, 2440 MHz
 Test Date: 2023-03-13
 Note: EUT vertical



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
47.9935 MHz	29.2 dBµV/m	40 dBµV/m	-10.82 dB	Pass	Vertical
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
95.9803 MHz	33.6 dBµV/m	43.5 dBµV/m	-9.9 dB	Pass	Vertical
191.9406 MHz	35.5 dBµV/m	43.5 dBµV/m	-8.05 dB	Pass	Vertical
479.8782 MHz	36.1 dBµV/m	46 dBµV/m	-9.88 dB	Pass	Vertical

Test Report No.: G0M-2302-1878-TFC247BL-V03

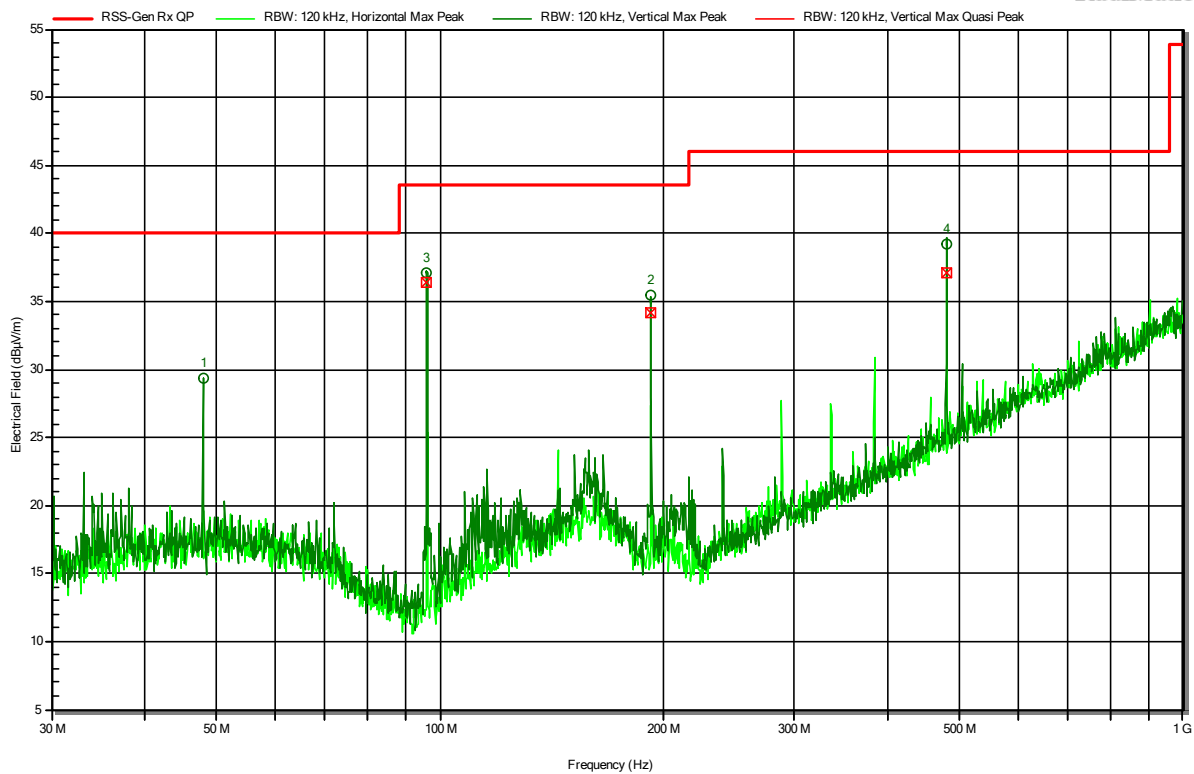
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to RSS-247 Issue 3, RSS-Gen Issue 5

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Rx; BLE, 2440 MHz
 Test Date: 2023-03-13
 Note: EUT horizontal

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
47.9935 MHz	29.4 dBμV/m	40 dBμV/m	-10.62 dB	Pass	Vertical
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Polarization
95.9769 MHz	36.4 dBμV/m	43.5 dBμV/m	-7.1 dB	Pass	Vertical
191.9528 MHz	34.2 dBμV/m	43.5 dBμV/m	-9.28 dB	Pass	Vertical
479.8463 MHz	37.1 dBμV/m	46 dBμV/m	-8.93 dB	Pass	Vertical

Test Report No.: G0M-2302-1878-TFC247BL-V03

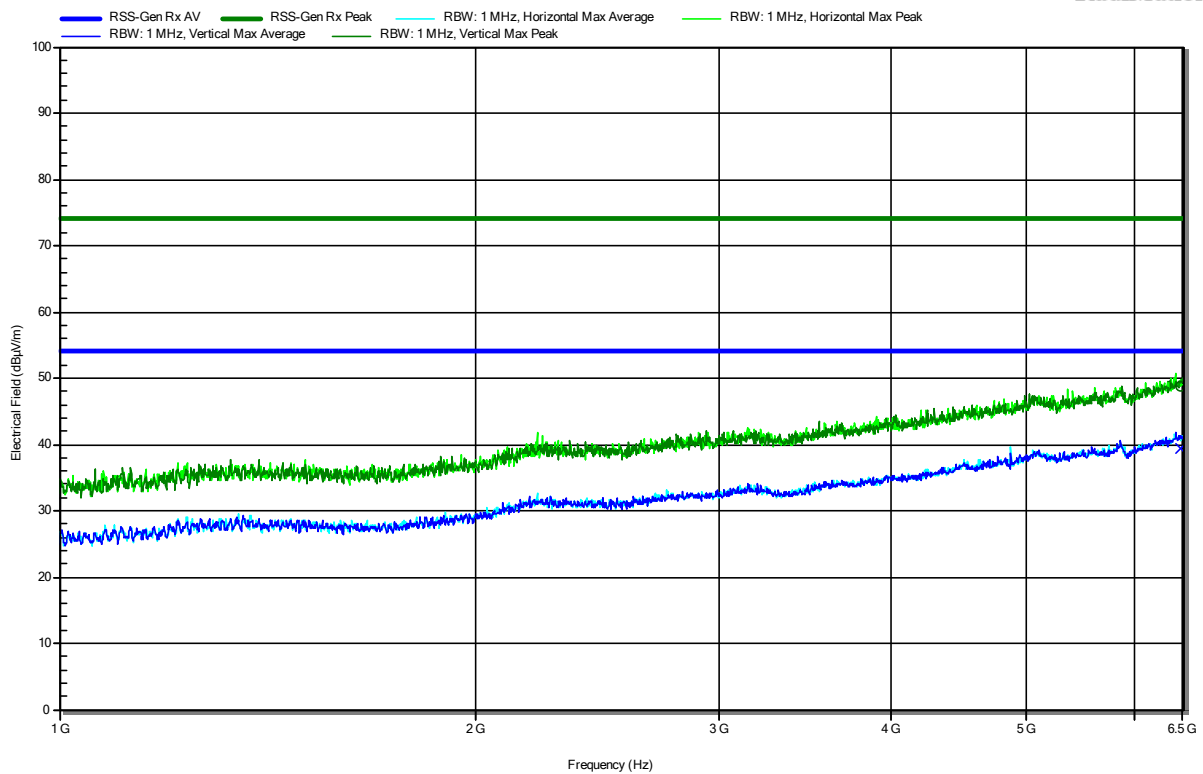
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to RSS-247 Issue 3, RSS-Gen Issue 5

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck BBHA 9120D
 Measurement distance: 3 m
 Mode: Rx; BLE, 2440 MHz
 Test Date: 2023-03-13
 Note:

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RadiMation



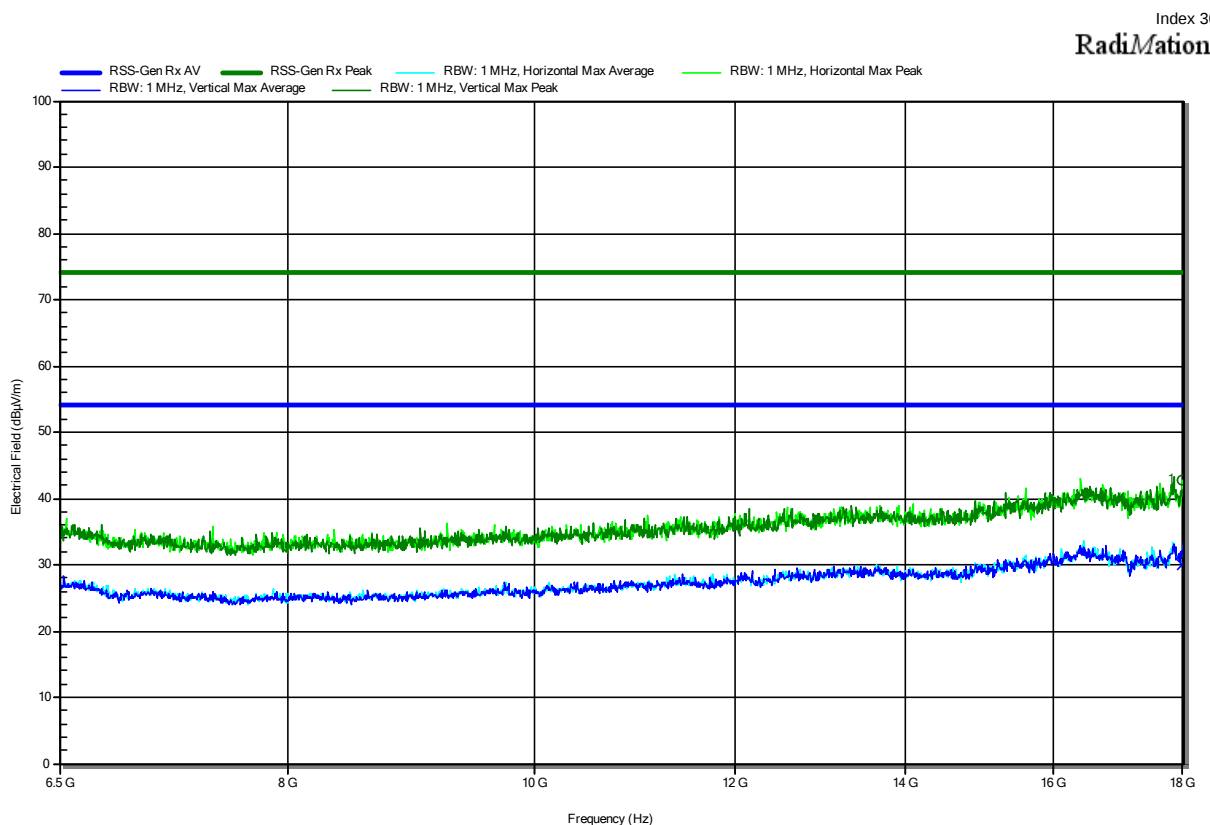
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
6.468 GHz	48.75 dBµV/m	74 dBµV/m	-25.25 dB	Pass	Vertical
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
6.468 GHz	39.31 dBµV/m	53.98 dBµV/m	-14.67 dB	Pass	Vertical

Test Report No.: G0M-2302-1878-TFC247BL-V03

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

Radiated Spurious Emissions according to RSS-247 Issue 3, RSS-Gen Issue 5

Project Number: G0M-2302-1878
 Applicant: Leica Geosystems AG
 Model Description: Remote Control
 Model: Leica RC10
 Test Sample ID: 43164
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Qawasmeh
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom: 3.6 VDC
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Rx; BLE, 2440 MHz
 Test Date: 2023-03-13
 Note:



Frequency 17.987 GHz	Peak 42.69 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -31.31 dB	Peak Status Pass	Polarization Horizontal
Frequency 17.987 GHz	Average 29.93 dBµV/m	Average Limit 53.98 dBµV/m	Average Difference -24.05 dB	Average Status Pass	Polarization Horizontal

== END OF TEST REPORT ==

Test Report No.: G0M-2302-1878-TFC247BL-V03

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