

FCC TEST REPORT	
FCC 47 CFR Part 15C Industry Canada RSS-210 Frequency hopping systems operating within the 2400 – 2483.5 MHz band	
Report Reference No.....	G0M-1406-3917-TFC247BTLR-V01
Testing Laboratory	Eurofins Product Service GmbH
Address.....	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	  A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A
Applicant's name	Leica Geosystems AG
Address.....	Heinrich Wild Strasse 9435 Heerbrugg SWITZERLAND
Test specification:	
Standard	47 CFR Part 15C RSS-210, Issue 8, 2010-12 RSS-Gen, Issue 4, 2014-11 ANSI C63.4:2009
Test scope.....	complete Radio compliance test
Equipment under test (EUT):	
Product description	Field Controller Win EC7
Model No.	CS20 3.75G
Additional Model(s)	CS20 3.75G GNSS, CS20 3.75G Disto, CS20 3.75G Disto GNSS
Brand Name(s)	Leica Geosystems
Hardware version	V5.0
Firmware / Software version	1.0
	FCC-ID: RFD-CSNGF IC: 3177A-CSNGF
Contains	FCC-ID: PVH0946 IC: 5325A-0946
Test result	Passed

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

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

Possible test case verdicts:

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

Testing:

Test Lab Temperature.....: 20 – 23 °C

Test Lab Humidity: 32 – 38 %

Date of receipt of test item: 2014-11-27

Date (s) of performance of tests: 2014-11-27 - 2014-11-28

Compiled by: Burkhard Pudell

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

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

Date of issue: 2015-04-29

Total number of pages: 106

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:

CS20 3.75G was tested as the worst case configuration which incorporates all the radio technologies also used in CS20 3.75G GNSS, CS20 3.75G Disto, CS20 3.75G Disto GNSS

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

Version History

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

REPORT INDEX

1	EQUIPMENT (TEST ITEM) DESCRIPTION	5
1.1	Photos – Equipment External	6
1.2	Photos – Equipment internal	7
1.3	Photos – Test setup	9
1.4	Supporting Equipment Used During Testing	10
1.5	Test Modes	11
1.6	Test Equipment Used During Testing	12
1.7	Sample emission level calculation	13
2	RESULT SUMMARY	14
3	TEST CONDITIONS AND RESULTS	15
3.1	Test Conditions and Results – Occupied Bandwidth	15
3.2	Test Conditions and Results – AC power line conducted emissions	25
3.3	Test Conditions and Results – Transmitter radiated emissions	28
3.4	Test Conditions and Results – Receiver radiated emissions	33
ANNEX A	Transmitter radiated spurious emissions	35
ANNEX B	Receiver radiated spurious emissions	99

1 Equipment (Test item) Description

Description	Field Controller Win EC7	
Model	CS20 3.75G	
Additional Model(s)	CS20 3.75G GNSS, CS20 3.75G Disto, CS20 3.75G Disto GNSS	
Brand Name(s)	Leica Geosystems	
Serial number	None	
Hardware version	V5.0	
Software / Firmware version	1.0	
FCC-ID	RFD-CSNGF	
IC	3177A-CSNGF	
Contains FCC-ID	PVH0946	
Contains IC	5325A-0946	
Equipment type	End product	
Radio type	Transceiver	
Radio technology	Bluetooth BR+EDR	
Operating frequency range	2402 - 2480 MHz	
Assigned frequency band	2400 - 2483.5 MHz	
Main test frequencies	F _{LOW}	2402 MHz
	F _{MID}	2441 MHz
	F _{HIGH}	2480 MHz
Spreading	FHSS	
Modulations	GFSK, PI/4-DQPSK, 8-PSK	
Number of channels	79 hopping channels at all	
Channel spacing	1 MHz	
Number of antennas	1	
Antenna	Type	integrated
	Model	805684
	Manufacturer	Leica Geosystems
	Gain	1.0 dBi (customer declaration)
Manufacturer	Leica Geosystems AG Heinrich Wild Strasse 9435 Heerbrugg SWITZERLAND	
Power supply	V _{NOM}	11.1 VDC
AC/DC-Adaptor	Model	AEL40US15
	Vendor	XP Power
	Input	100 - 240 V AC
	Output	15 V DC

1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
SIM	Communication tester	R&S	CBT	Bluetooth signaling
*Note: Use the following abbreviations: AE : Auxiliary/Associated Equipment, or SIM : Simulator (Not Subjected to Test) CABL : Connecting cables				

1.5 Test Modes

Mode #	Description	
DH5-Sngl	General conditions:	EUT powered by internal battery
	Radio conditions:	Mode = standalone transmit Spreading = Hopping stopped (single hopping channel) Modulation = GFSK Packet type = DH5 Data rate = 1 Mbps Duty cycle = 77 % Power level = Maximum
2DH5-Sngl	General conditions:	EUT powered by internal battery
	Radio conditions:	Mode = standalone transmit Spreading = Hopping stopped (single hopping channel) Modulation = $\pi/4$ -DQPSK Packet type = 2DH5 Data rate = 2 Mbps Duty cycle = 77 % Power level = Maximum
3DH5-Sngl	General conditions:	EUT powered by internal battery
	Radio conditions:	Mode = standalone transmit Spreading = Hopping stopped (single hopping channel) Modulation = 8-DPSK Packet type = 3DH5 Data rate = 3 Mbps Duty cycle = 77 % Power level = Maximum
Receive	General conditions:	EUT powered by internal battery
	Radio conditions:	Mode = standalone receive Spreading = Hopping
AC-Powerline	General conditions:	EUT powered by commercial AC/DC-Adapter
	Radio conditions:	Mode = standalone transmit Spreading = Hopping Power level = Maximum

1.6 Test Equipment Used During Testing

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

Occupied Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSIQ26	EF00242	2014-03	2015-03

Radiated spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 1	EF00062	-	-
Spectrum Analyzer	R&S	FSIQ26	EF00242	2014-03	2015-03
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00187	2014-03	2017-03
LPD Antenna	R&S	HL 025	EF00327	2013-02	2016-02

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

1.7 Sample emission level calculation

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

Reading:

This is the reading obtained on the spectrum analyzer in 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:

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

Net:

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

Limit:

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

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

Margin:

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

Example only:

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

2 Result Summary

FCC 47 CFR Part 15C, IC RSS-210				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
RSS-Gen 6.6	Occupied Bandwidth	RSS-Gen 6.6	N/R	Informational only
FCC § 15.247(a)(1) IC RSS-210 § A8.1	20 dB Bandwidth	Public notice DA 00-705	N/R	Test results are given in test report under FCC-ID PVH0946
FCC § 15.247(a)(1)(iii) IC RSS-210 § A8.1	Number of hopping frequencies	Public notice DA 00-705	N/R	Test results are given in test report under FCC-ID PVH0946
FCC § 15.247(a)(1) IC RSS-210 § A8.1	Frequency hopping channel separation	Public notice DA 00-705	N/R	Test results are given in test report under FCC-ID PVH0946
FCC § 15.247(a)(1)(iii) IC RSS-210 § A8.1	Time of occupancy (Dwell time)	Public notice DA 00-705	N/R	Test results are given in test report under FCC-ID PVH0946
FCC § 15.247(b)(1) IC RSS-210 § A8.4	Maximum peak conducted power	Public notice DA 00-705	N/R	Test results are given in test report under FCC-ID PVH0946
47 CFR 15.207 RSS-Gen 8.8	AC power line conducted emissions	ANSI C63.4	PASS	
FCC § 15.247(d) IC RSS-210 § A8.5	Band edge compliance	Public notice DA 00-705	N/R	Test results are given in test report under FCC-ID PVH0946
FCC § 15.247(d) IC RSS-210 § A8.5	Conducted spurious emissions	Public notice DA 00-705	N/R	Test results are given in test report under FCC-ID PVH0946
FCC § 15.247(d) FCC § 15.209 IC RSS-210 A8.5 IC RSS-Gen 4.9 IC RSS-Gen 7.2.5	Transmitter radiated spurious emissions	Public notice DA 00-705 / ANSI C 63.4	PASS	
IC RSS-Gen 7.1	Receiver radiated spurious emissions	ANSI C 63.4	PASS	
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – Occupied Bandwidth

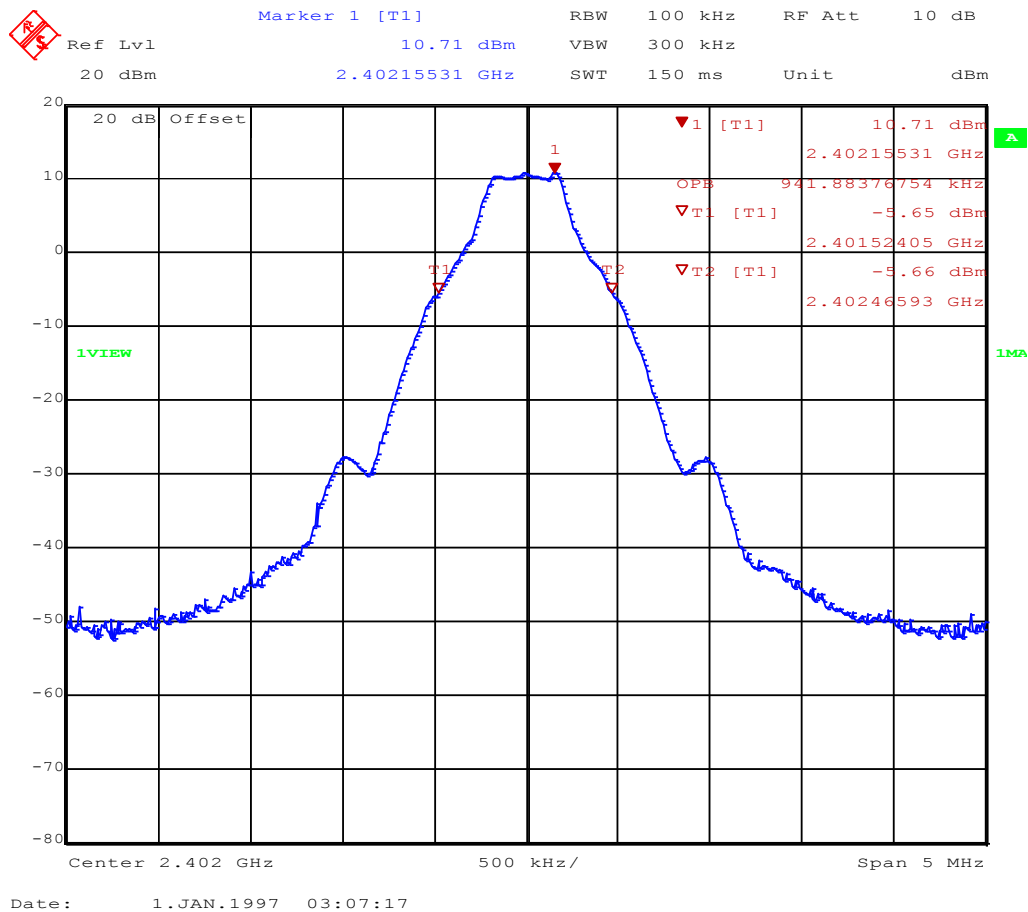
Occupied Bandwidth acc. to IC RSS-Gen			Verdict: PASS
Test according to measurement reference	Reference Method		
	RSS-Gen 6.6		
Test frequency range	Tested frequencies		
	F _{LOW} / F _{MID} / F _{HIGH}		
Limits			
None (Informational only)			
Test setup			
Spectrum Analyzer EUT			
Test procedure			
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Resolution bandwidth set to 1 % of span 4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function			
Test results			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
F _{LOW}	2402	DH5-Sngl	941.88
F _{MID}	2441	DH5-Sngl	941.88
F _{HIGH}	2480	DH5-Sngl	941.88
F _{LOW}	2402	2DH5-Sngl	1232.0
F _{MID}	2441	2DH5-Sngl	1242.0
F _{HIGH}	2480	2DH5-Sngl	1232.0
F _{LOW}	2402	3DH5-Sngl	1253.0
F _{MID}	2441	3DH5-Sngl	1263.0
F _{HIGH}	2480	3DH5-Sngl	1253.0
Comments:			

Occupied Bandwidth – DH5-Sngl F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

Applicant: Leica Geosystems AG
EUT Name: Field Controller Win EC7
Model: CS20
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: Tx, LR-BT-BR, CH: 0, 2402 MHz, DH5
Test Date: 2014-11-28
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW= 941.884 kHz

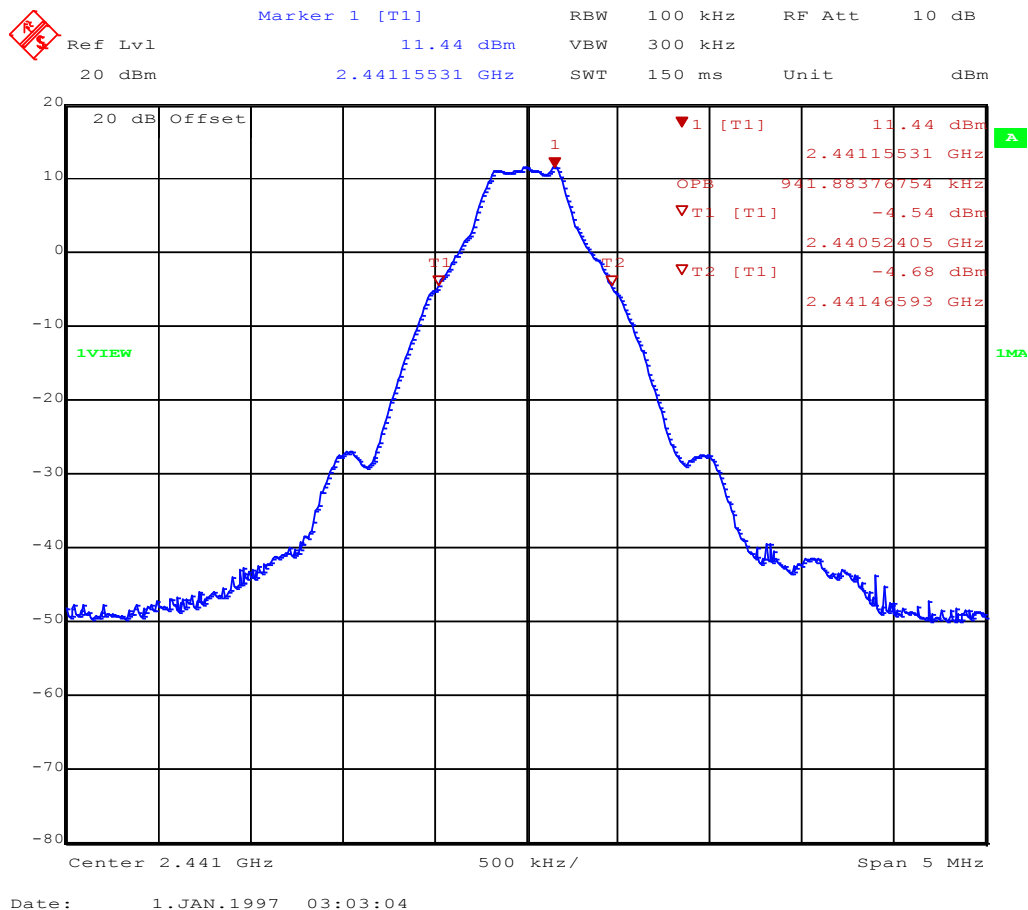


Occupied Bandwidth – DH5-Sngl F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

Applicant: Leica Geosystems AG
EUT Name: Field Controller Win EC7
Model: CS20
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: Tx, LR-BT-BR, CH: 39, 2441 MHz, DH5
Test Date: 2014-11-28
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW= 941.884 kHz

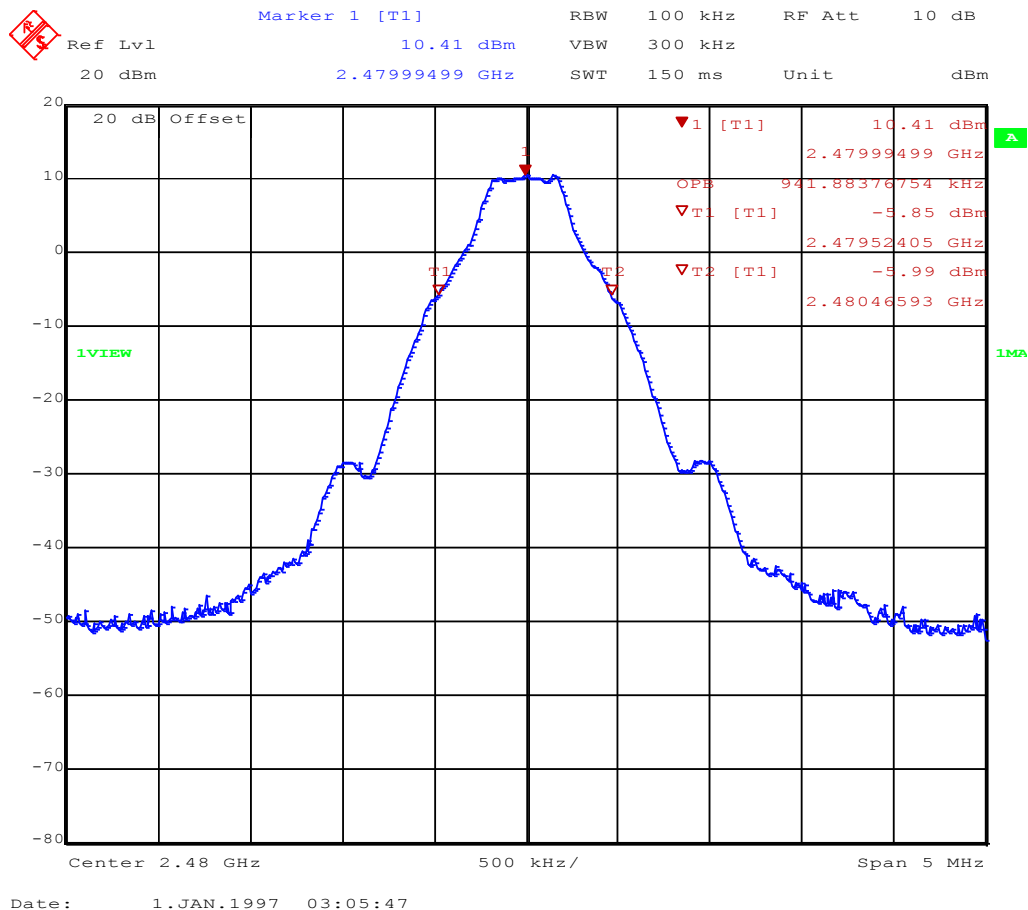


Occupied Bandwidth – DH5-Sngl F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

Applicant: Leica Geosystems AG
EUT Name: Field Controller Win EC7
Model: CS20
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: Tx, LR-BT-BR, CH: 78, 2480 MHz, DH5
Test Date: 2014-11-28
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW= 941.884 kHz

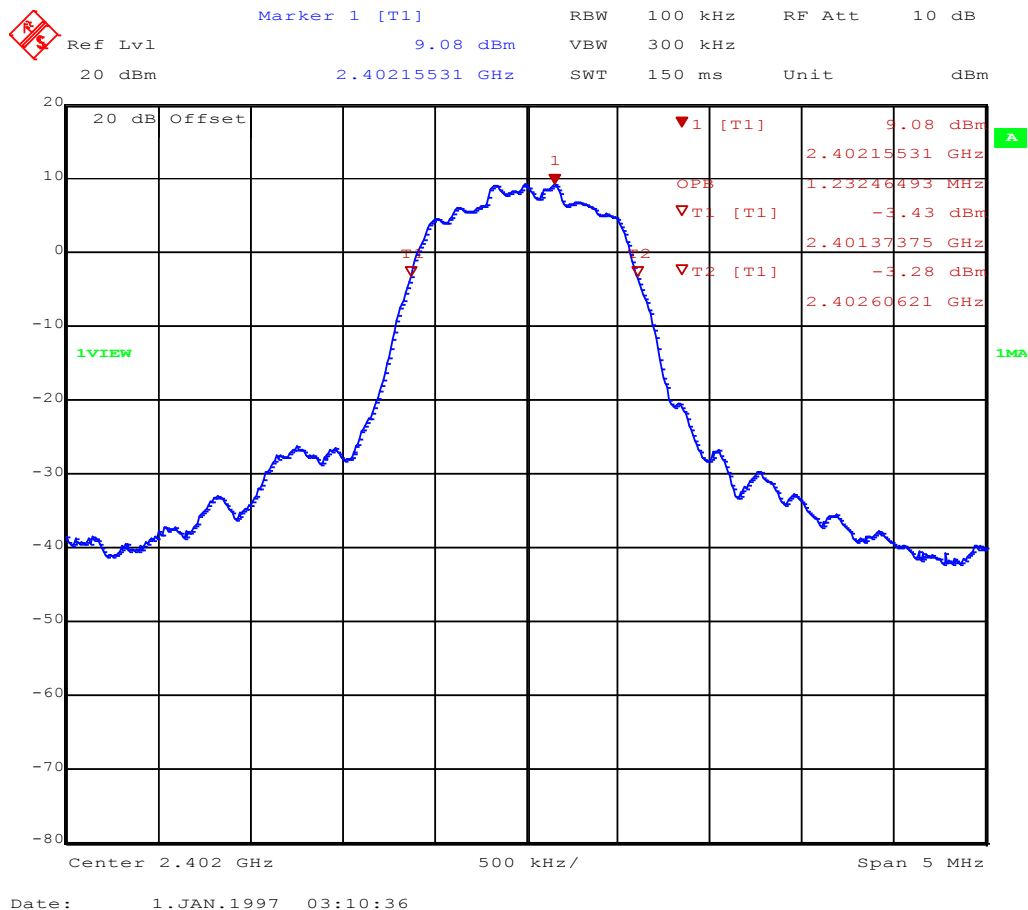


Occupied Bandwidth – 2-DH5-Sngl F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

Applicant: Leica Geosystems AG
EUT Name: Field Controller Win EC7
Model: CS20
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: Tx, LR-BT-EDR, CH: 0, 2402 MHz, 2-DH5
Test Date: 2014-11-28
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW= 1.232 MHz

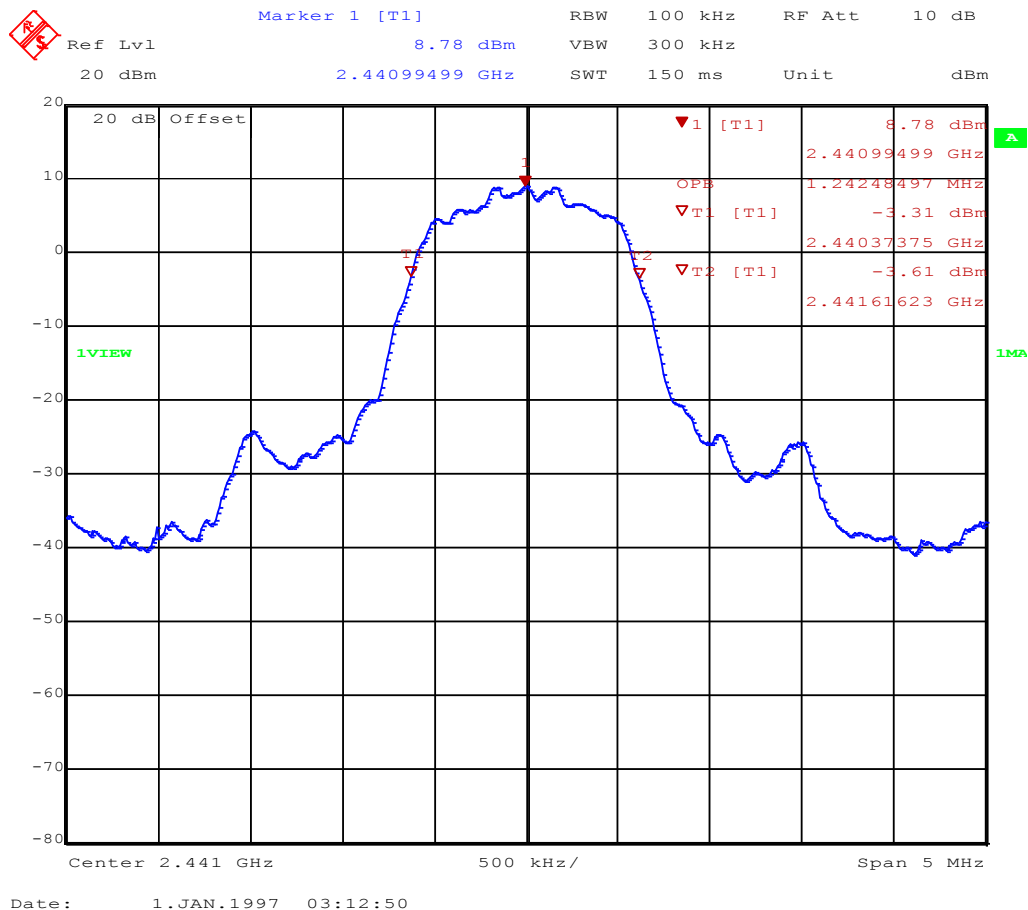


Occupied Bandwidth – 2-DH5-Sngl F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

Applicant: Leica Geosystems AG
EUT Name: Field Controller Win EC7
Model: CS20
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: Tx, LR-BT-EDR, CH: 39, 2441 MHz, 2-DH5
Test Date: 2014-11-28
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW= 1.242 MHz

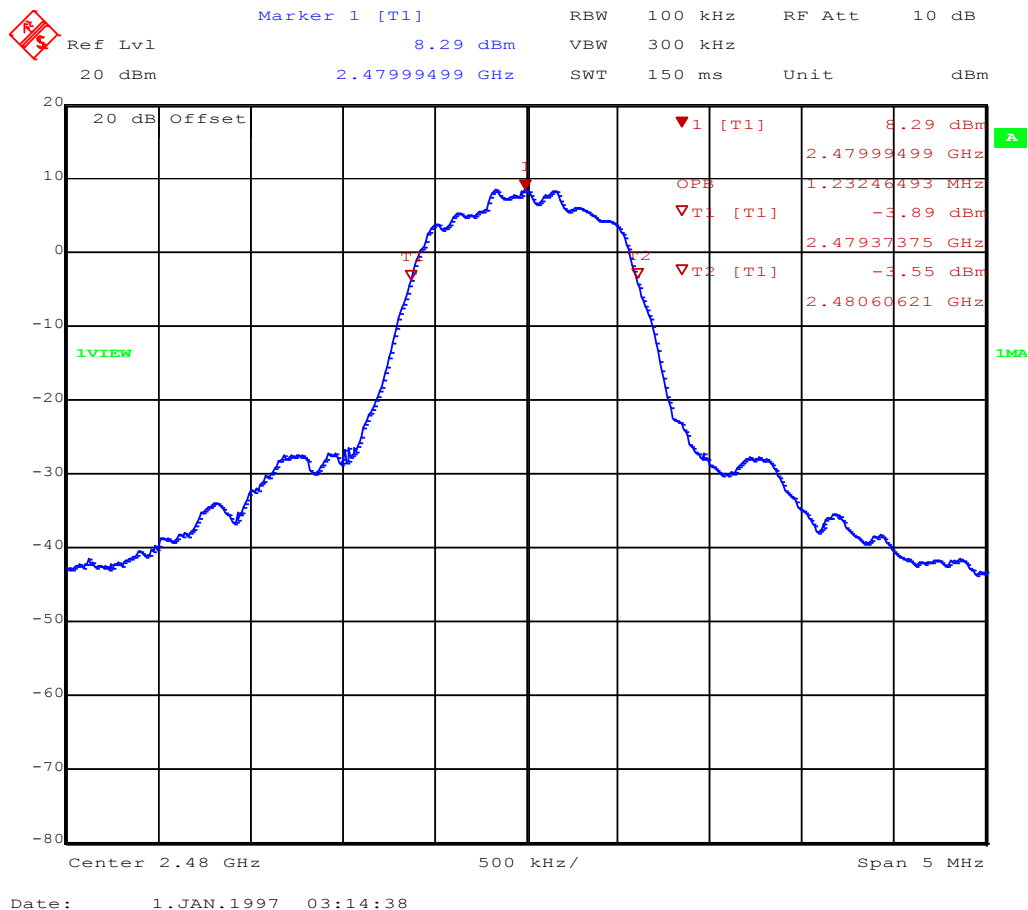


Occupied Bandwidth – 2-DH5-Sngl F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

Applicant: Leica Geosystems AG
EUT Name: Field Controller Win EC7
Model: CS20
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: Tx, LR-BT-EDR, CH: 78, 2480 MHz, 2-DH5
Test Date: 2014-11-28
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW= 1.232 MHz

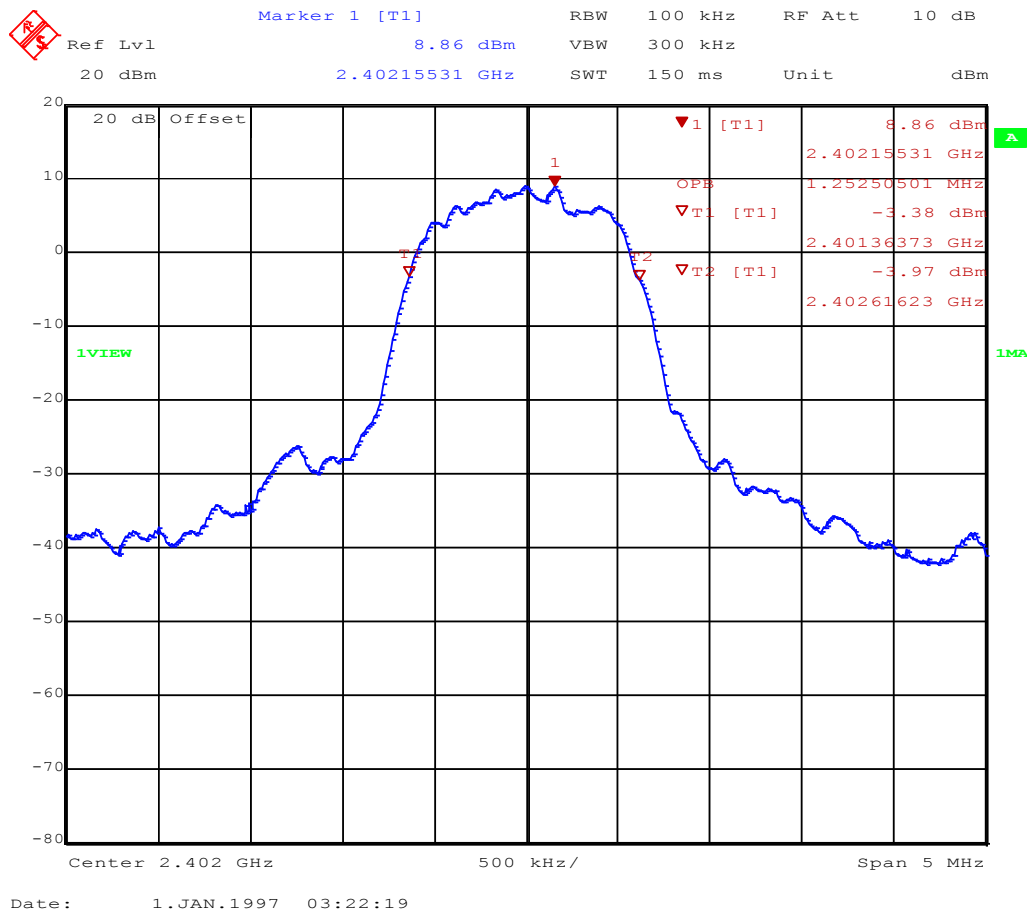


Occupied Bandwidth – 3-DH5-Sngl F_{LOW}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

Applicant: Leica Geosystems AG
EUT Name: Field Controller Win EC7
Model: CS20
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: Tx, LR-BT-EDR, CH: 0, 2402 MHz, 3-DH5
Test Date: 2014-11-28
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW= 1.253 MHz

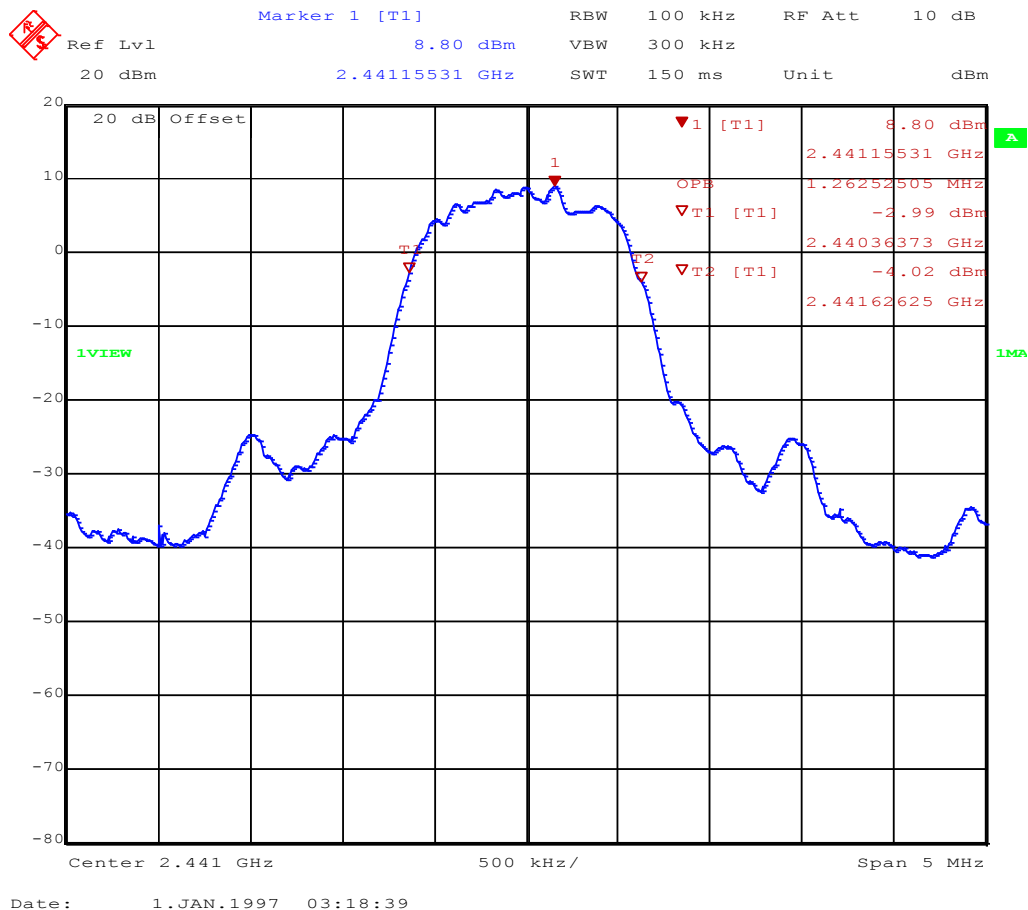


Occupied Bandwidth – 3-DH5-Sngl F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

Applicant: Leica Geosystems AG
EUT Name: Field Controller Win EC7
Model: CS20
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: Tx, LR-BT-EDR, CH: 39, 2441 MHz, 3-DH5
Test Date: 2014-11-28
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW= 1.263 MHz

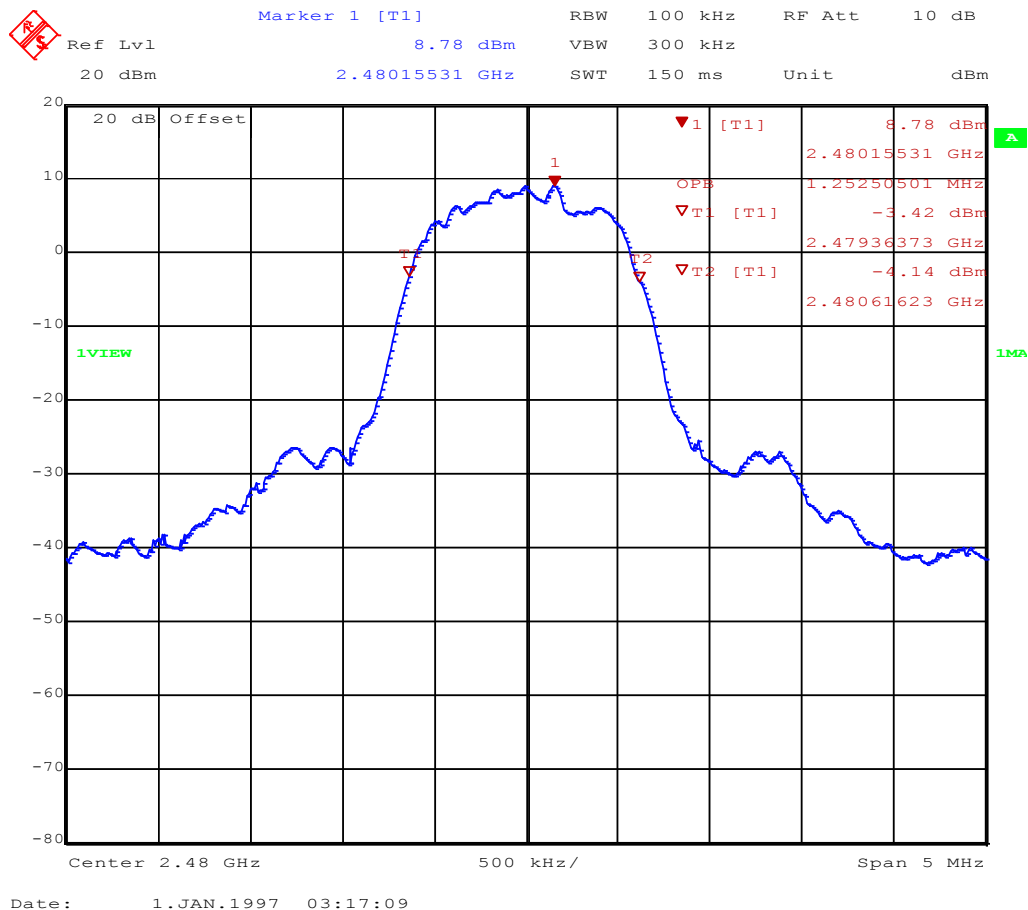


Occupied Bandwidth – 3-DH5-Sngl F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

Applicant: Leica Geosystems AG
EUT Name: Field Controller Win EC7
Model: CS20
Test Site: Eurofins Product Service GmbH
Operator: Burkhard Pudell
Test Conditions: Tnom / Vnom
Mode: Tx, LR-BT-EDR, CH: 78, 2480 MHz, 3-DH5
Test Date: 2014-11-28
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: OBW= 1.253 MHz



3.2 Test Conditions and Results – AC power line conducted emissions

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

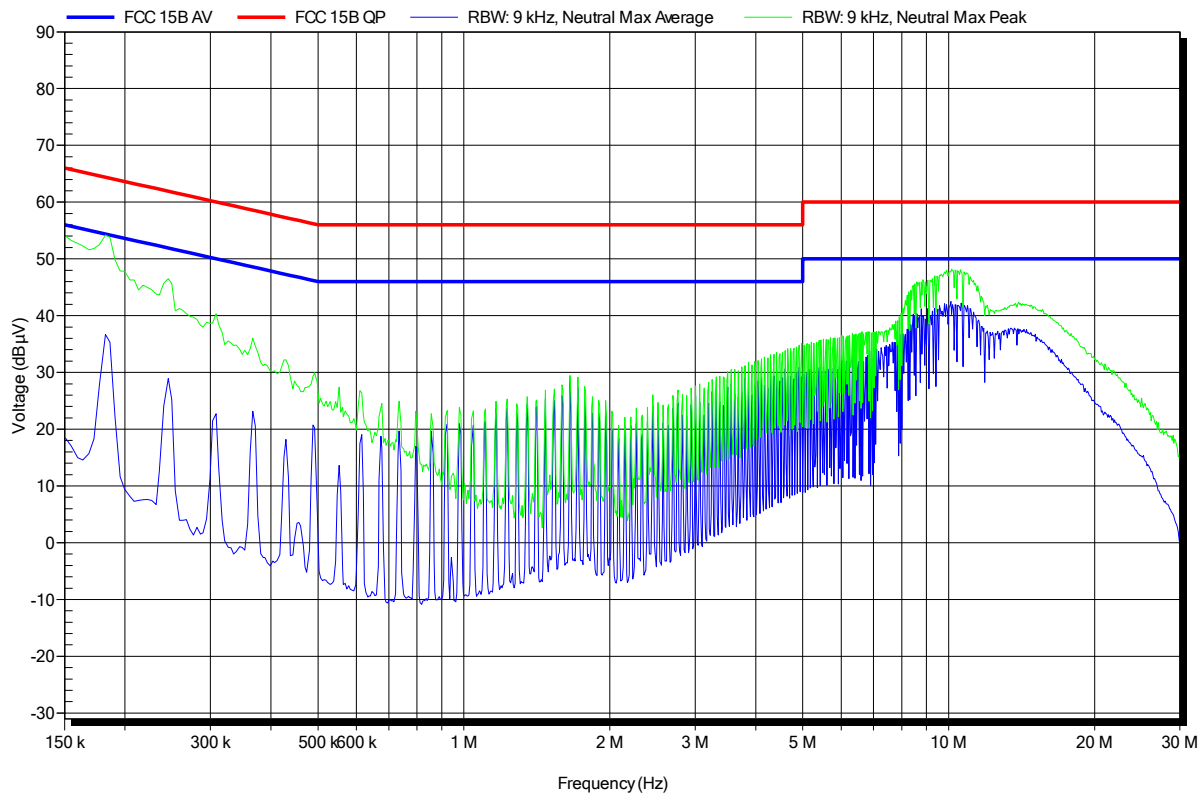
Conducted Emissions 1

EMI voltage test in the ac-mains according to FCC Part 15b

Project number: G0M-1406-3917

Manufacturer: Leica Geosystems AG
 EUT Name: Feld Controller
 Model: Full Disto + ME
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Zunke
 Test Conditions: Tnom: 25°C, Unom: 10.8VDC via AC/DC Adapter
 LISN: ESH2-Z5 N
 Mode: Full Disto+ME, charging, WLAN link to AP, BT link to Laptop, GSM900 link to CMU, LR-BT link to TS15 with RH16
 Test Date: 2014-08-07
 Note:

Index 32



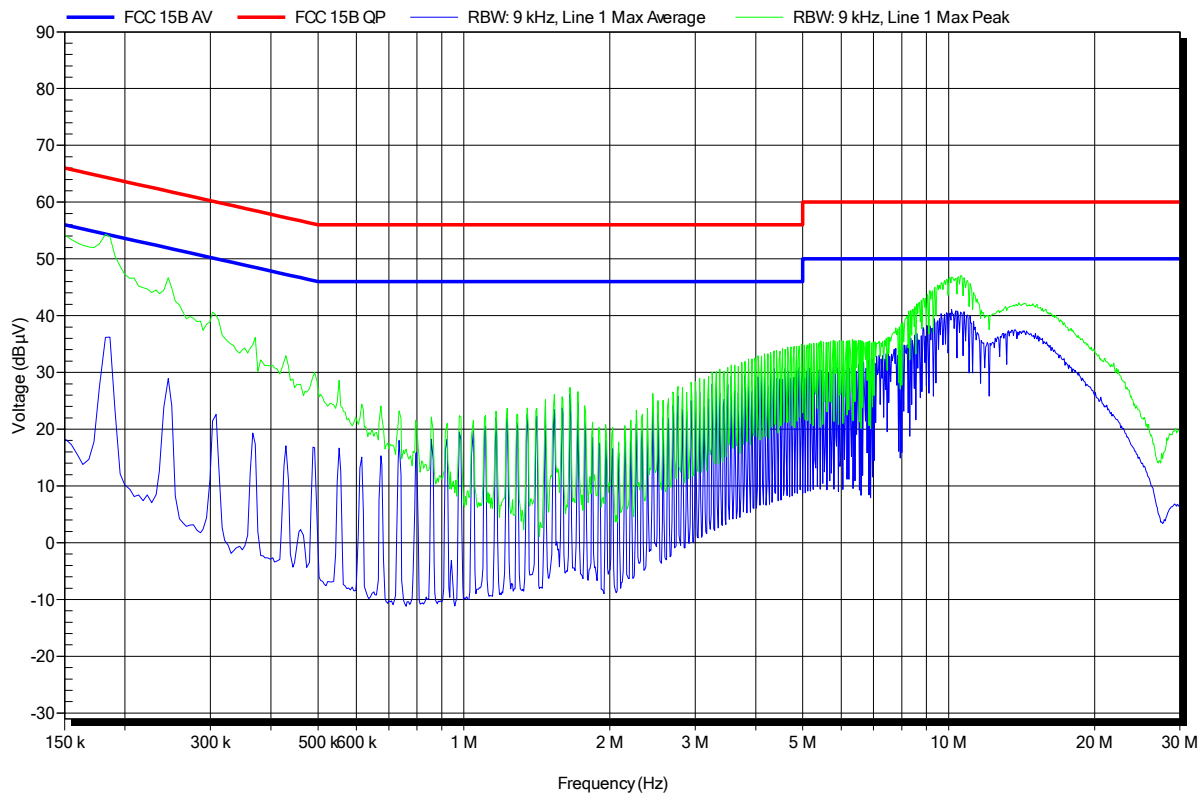
Conducted Emissions 2

EMI voltage test in the ac-mains according to FCC Part 15b

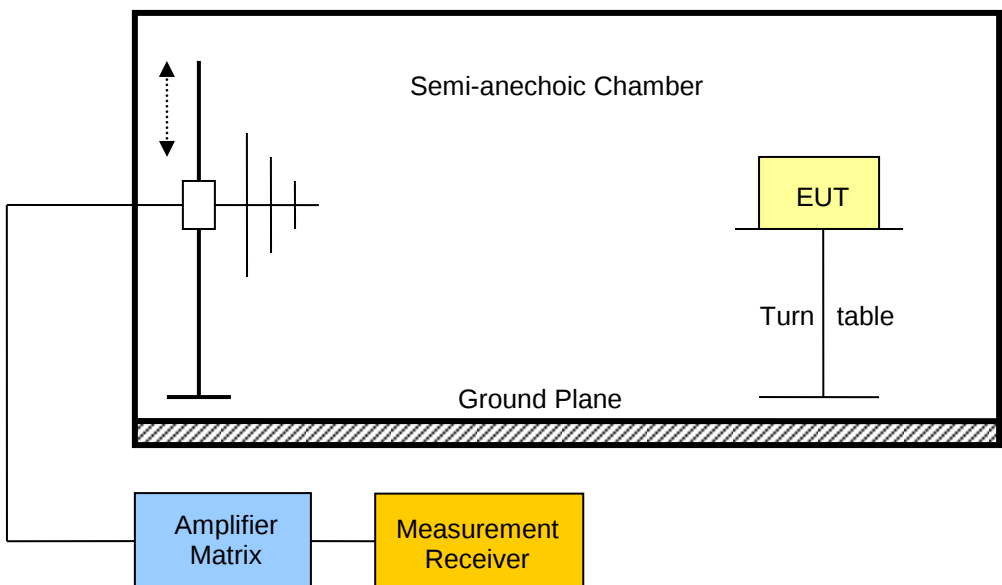
Project number: G0M-1406-3917

Manufacturer: Leica Geosystems AG
 EUT Name: Feld Controller
 Model: Full Disto + ME
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Zunke
 Test Conditions: Tnom: 25°C, Unom: 10.8VDC via AC/DC Adapter
 LISN: ESH2-Z5 L
 Mode: Full Disto+ME, charging, WLAN link to AP, BT link to Laptop, GSM900 link to CMU, LR-BT link to TS15 with RH16
 Test Date: 2014-08-07
 Note:

Index 31



3.3 Test Conditions and Results – Transmitter radiated emissions

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

Test procedure

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

Test results – Basic Rate

Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Limit dist. [m]*	Margin [dB]
F _{LOW}	2402	DH5-Sngl	608	28.93	pk	ver	46.00	3	-17.07
F _{LOW}	2402	DH5-Sngl	608	26.38	pk	hor	46.00	3	-19.62
F _{LOW}	2402	DH5-Sngl	2330	55.82	pk	hor	74.00	3	-18.18
F _{LOW}	2402	DH5-Sngl	2330	30.27	RMS	hor	54.00	3	-23.73
F _{LOW}	2402	DH5-Sngl	2376	57.80	pk	hor	74.00	3	-16.20
F _{LOW}	2402	DH5-Sngl	2376	31.15	RMS	hor	54.00	3	-22.85
F _{LOW}	2402	DH5-Sngl	2377	55.45	pk	ver	74.00	3	-18.55
F _{LOW}	2402	DH5-Sngl	2377	29.71	RMS	ver	54.00	3	-24.29
F _{LOW}	2402	DH5-Sngl	2382	55.21	pk	ver	74.00	3	-18.79
F _{LOW}	2402	DH5-Sngl	2382	31.52	RMS	ver	54.00	3	-22.48
F _{LOW}	2402	DH5-Sngl	2382	57.88	pk	hor	74.00	3	-16.12
F _{LOW}	2402	DH5-Sngl	2382	33.01	RMS	hor	54.00	3	-20.99
F _{LOW}	2402	DH5-Sngl	2400	77.30	pk	ver	95.00	3	-17.70
F _{LOW}	2402	DH5-Sngl	2400	81.79	pk	hor	95.00	3	-13.21
F _{LOW}	2402	DH5-Sngl	4800	52.91	pk	ver	74.00	3	-21.09
F _{LOW}	2402	DH5-Sngl	4800	51.93	pk	hor	74.00	3	-22.07
F _{MID}	2441	DH5-Sngl	2330	55.73	pk	hor	74.00	3	-18.27
F _{MID}	2441	DH5-Sngl	2330	29.98	RMS	hor	54.00	3	-24.02
F _{MID}	2441	DH5-Sngl	2334	53.12	pk	ver	74.00	3	-20.88
F _{MID}	2441	DH5-Sngl	2334	29.15	RMS	ver	54.00	3	-24.85
F _{MID}	2441	DH5-Sngl	2381	57.96	pk	hor	74.00	3	-16.04
F _{MID}	2441	DH5-Sngl	2381	31.86	RMS	hor	54.00	3	-22.14
F _{MID}	2441	DH5-Sngl	2384	55.97	pk	ver	74.00	3	-18.03
F _{MID}	2441	DH5-Sngl	2384	31.10	RMS	ver	54.00	3	-22.90
F _{MID}	2441	DH5-Sngl	2491.7	51.94	pk	hor	74.00	3	-22.06
F _{MID}	2441	DH5-Sngl	2491.7	30.23	RMS	hor	54.00	3	-23.77
F _{MID}	2441	DH5-Sngl	2491.8	50.65	pk	ver	74.00	3	-23.35
F _{MID}	2441	DH5-Sngl	2491.8	29.91	RMS	ver	54.00	3	-24.09

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

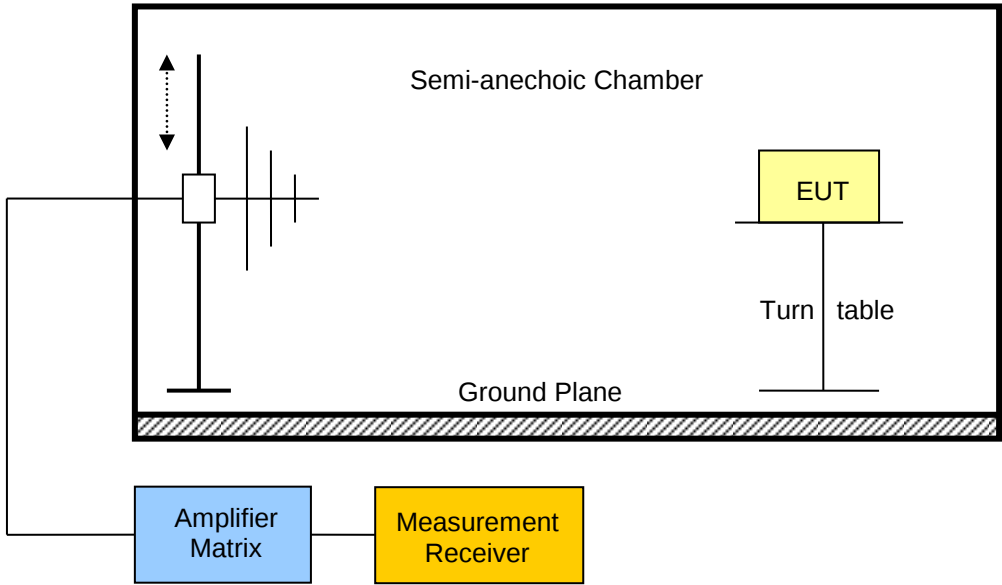
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

F _{MID}	2441	DH5-Sngl	4880	51.83	pk	ver	74.00	3	-22.17
F _{MID}	2441	DH5-Sngl	4880	52.20	pk	hor	74.00	3	-21.80
F _{HIGH}	2480	DH5-Sngl	2332	55.83	pk	hor	74.00	3	-18.17
F _{HIGH}	2480	DH5-Sngl	2332	29.99	RMS	hor	54.00	3	-24.01
F _{HIGH}	2480	DH5-Sngl	2333	52.81	pk	ver	74.00	3	-21.19
F _{HIGH}	2480	DH5-Sngl	2333	29.04	RMS	ver	54.00	3	-24.96
F _{HIGH}	2480	DH5-Sngl	2382	57.08	pk	hor	74.00	3	-16.92
F _{HIGH}	2480	DH5-Sngl	2382	30.90	RMS	hor	54.00	3	-23.10
F _{HIGH}	2480	DH5-Sngl	2383	55.91	pk	ver	74.00	3	-18.09
F _{HIGH}	2480	DH5-Sngl	2383	30.34	RMS	ver	54.00	3	-23.66
F _{HIGH}	2480	DH5-Sngl	2483.5	53.79	pk	ver	74.00	3	-20.21
F _{HIGH}	2480	DH5-Sngl	2483.5	35.17	RMS	ver	54.00	3	-18.83
F _{HIGH}	2480	DH5-Sngl	2483.5	51.37	pk	hor	74.00	3	-22.63
F _{HIGH}	2480	DH5-Sngl	2483.5	37.38	RMS	hor	54.00	3	-16.62
F _{HIGH}	2480	DH5-Sngl	2491.7	49.81	pk	ver	74.00	3	-24.19
F _{HIGH}	2480	DH5-Sngl	2491.7	29.36	RMS	ver	54.00	3	-24.64
F _{HIGH}	2480	DH5-Sngl	2491.8	50.90	pk	hor	74.00	3	-23.10
F _{HIGH}	2480	DH5-Sngl	2491.8	30.12	RMS	hor	54.00	3	-23.88
F _{HIGH}	2480	DH5-Sngl	2497.1	46.18	pk	hor	74.00	3	-27.82
F _{HIGH}	2480	DH5-Sngl	2497.1	31.04	RMS	hor	54.00	3	-22.96
F _{HIGH}	2480	DH5-Sngl	2503	55.64	pk	hor	95.00	3	-39.36

Test results – EDR									
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbμV/m]	Det.	Pol.	Limit [dbμV/m]	Limit dist. [m]*	Margin [dB]
F _{LOW}	2402	3-DH5-Sngl	2330	55.25	pk	hor	74.00	3	-18.75
F _{LOW}	2402	3-DH5-Sngl	2330	30.28	RMS	hor	54.00	3	-23.72
F _{LOW}	2402	3-DH5-Sngl	2377	53.64	pk	ver	74.00	3	-20.36
F _{LOW}	2402	3-DH5-Sngl	2377	32.62	RMS	ver	54.00	3	-21.38
F _{LOW}	2402	3-DH5-Sngl	2377	56.20	pk	hor	74.00	3	-17.80
F _{LOW}	2402	3-DH5-Sngl	2377	34.97	RMS	hor	54.00	3	-19.03
F _{LOW}	2402	3-DH5-Sngl	2382	55.20	pk	ver	74.00	3	-18.80
F _{LOW}	2402	3-DH5-Sngl	2382	32.71	RMS	ver	54.00	3	-21.29
F _{LOW}	2402	3-DH5-Sngl	2382	57.30	pk	hor	74.00	3	-16.70
F _{LOW}	2402	3-DH5-Sngl	2382	34.58	RMS	hor	54.00	3	-19.42
F _{LOW}	2402	3-DH5-Sngl	2389	55.61	pk	ver	74.00	3	-18.39
F _{LOW}	2402	3-DH5-Sngl	2389	33.58	RMS	ver	54.00	3	-20.42
F _{LOW}	2402	3-DH5-Sngl	2389	57.42	pk	hor	74.00	3	-16.58
F _{LOW}	2402	3-DH5-Sngl	2389	35.23	RMS	hor	54.00	3	-18.77
F _{LOW}	2402	3-DH5-Sngl	2400	79.95	pk	ver	95.00	3	-15.05
F _{LOW}	2402	3-DH5-Sngl	2400	82.70	pk	hor	95.00	3	-12.30
F _{LOW}	2402	3-DH5-Sngl	4800	52.81	pk	ver	74.00	3	-21.19
F _{LOW}	2402	3-DH5-Sngl	4800	52.10	pk	hor	74.00	3	-21.90
F _{MID}	2441	3-DH5-Sngl	2330	55.00	pk	hor	74.00	3	-19.00
F _{MID}	2441	3-DH5-Sngl	2330	29.79	RMS	hor	54.00	3	-24.21
F _{MID}	2441	3-DH5-Sngl	2382	55.59	pk	ver	74.00	3	-18.41
F _{MID}	2441	3-DH5-Sngl	2382	30.43	RMS	ver	54.00	3	-23.57
F _{MID}	2441	3-DH5-Sngl	2382	57.47	pk	hor	74.00	3	-16.53
F _{MID}	2441	3-DH5-Sngl	2382	31.69	RMS	hor	54.00	3	-22.31
F _{MID}	2441	3-DH5-Sngl	2491.7	48.05	pk	ver	74.00	3	-25.95
F _{MID}	2441	3-DH5-Sngl	2491.7	29.01	RMS	ver	54.00	3	-24.99
F _{MID}	2441	3-DH5-Sngl	2491.7	49.42	pk	hor	74.00	3	-24.58
F _{MID}	2441	3-DH5-Sngl	2491.7	30.02	RMS	hor	54.00	3	-23.98
F _{MID}	2441	3-DH5-Sngl	4880	50.35	pk	ver	74.00	3	-23.65
F _{MID}	2441	3-DH5-Sngl	4880	52.62	pk	hor	74.00	3	-21.38
F _{HIGH}	2480	3-DH5-Sngl	2382	55.53	pk	ver	74.00	3	-18.47
F _{HIGH}	2480	3-DH5-Sngl	2382	30.81	RMS	ver	54.00	3	-23.19
F _{HIGH}	2480	3-DH5-Sngl	2382	55.78	pk	hor	74.00	3	-18.22

F _{HIGH}	2480	3-DH5-Sngl	2382	30.04	RMS	hor	54.00	3	-23.96
F _{HIGH}	2480	3-DH5-Sngl	2483.5	61.01	pk	ver	74.00	3	-12.99
F _{HIGH}	2480	3-DH5-Sngl	2483.5	45.93	RMS	ver	54.00	3	-08.07
F _{HIGH}	2480	3-DH5-Sngl	2483.5	63.05	pk	hor	74.00	3	-10.95
F _{HIGH}	2480	3-DH5-Sngl	2483.5	48.45	RMS	hor	54.00	3	-05.55
F _{HIGH}	2480	3-DH5-Sngl	2485.2	54.54	pk	ver	74.00	3	-19.46
F _{HIGH}	2480	3-DH5-Sngl	2485.2	38.95	RMS	ver	54.00	3	-15.05
F _{HIGH}	2480	3-DH5-Sngl	2497.1	55.71	pk	hor	74.00	3	-18.29
F _{HIGH}	2480	3-DH5-Sngl	2497.1	33.84	RMS	hor	54.00	3	-20.16
Comments: * Physical distance between EUT and measurement antenna.									

3.4 Test Conditions and Results – Receiver radiated emissions

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

Test procedure							
1. EUT set to receive mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz 4. Markers are set to peak emission levels							
Test results							
Channel	Frequency [MHz]	Emission [MHz]	Emission Level [dBμV/m]	Pol	Det.	Limit [dBμV/m]	Margin [dB]
Scan-Mode	Hopping	178.24	37.31	ver	pk	43.50	-06.19
Scan-Mode	Hopping	416	35.93	ver	pk	46.00	-10.07
Scan-Mode	Hopping	768	35.30	hor	pk	46.00	-10.70
Comments:							

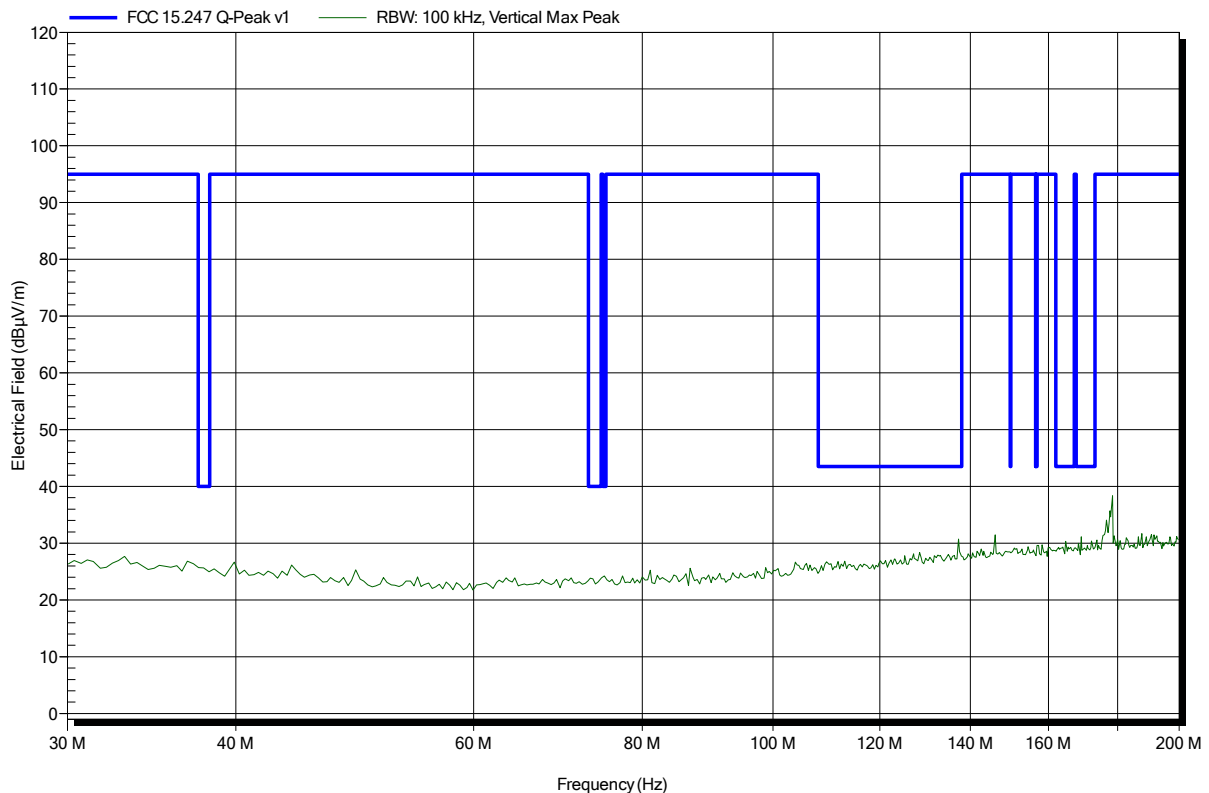
ANNEX A Transmitter radiated spurious emissions

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

Project number: G0M-1406-3917

Applicant:	Leica Geosystems AG
EUT Name:	Field Controller Win EC7
Model:	CS20
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 V DC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
Test Date:	2014-11-28
Note:	EUT vertical; worst case

Index 13

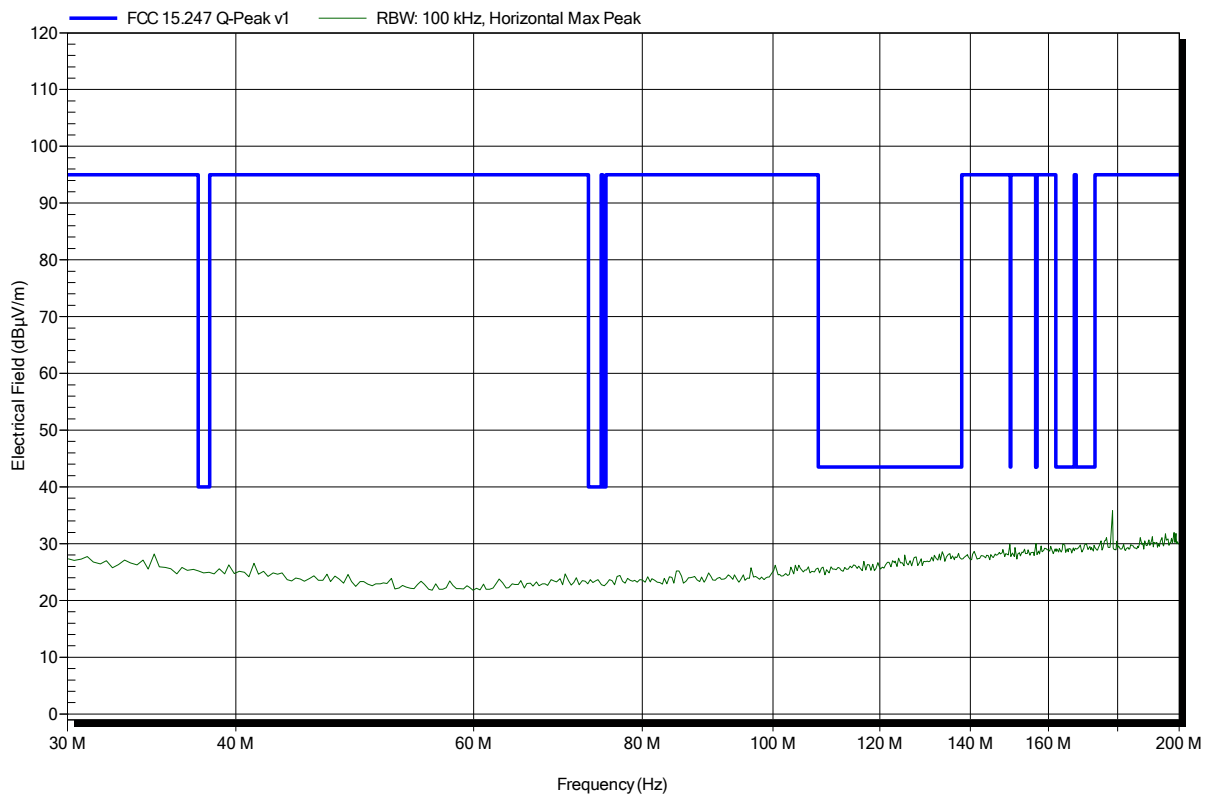


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant:	Leica Geosystems AG
EUT Name:	Field Controller Win EC7
Model:	CS20
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 V DC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
Test Date:	2014-11-28
Note:	EUT vertical; worst case

Index 14

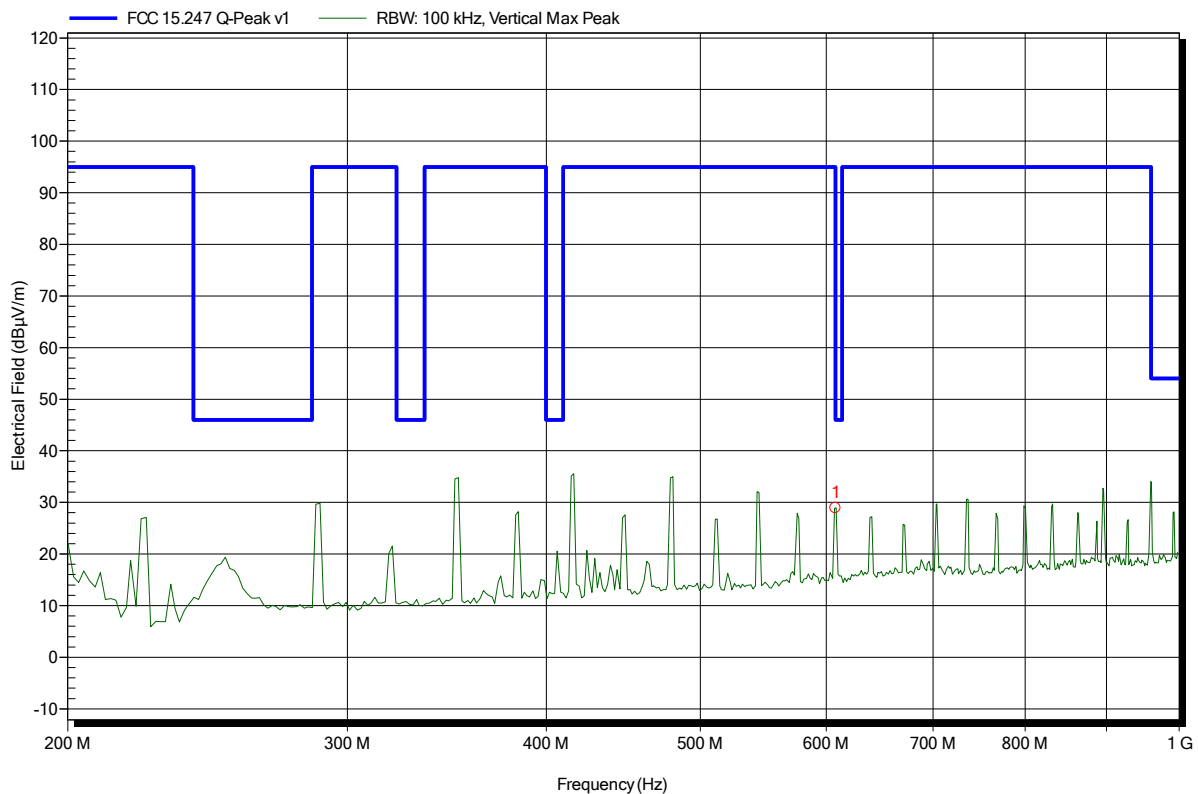


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT vertical; worst case

Index 15



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
608 MHz	28.93 dBµV/m	46 dBµV/m	-17.07 dB	Pass

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

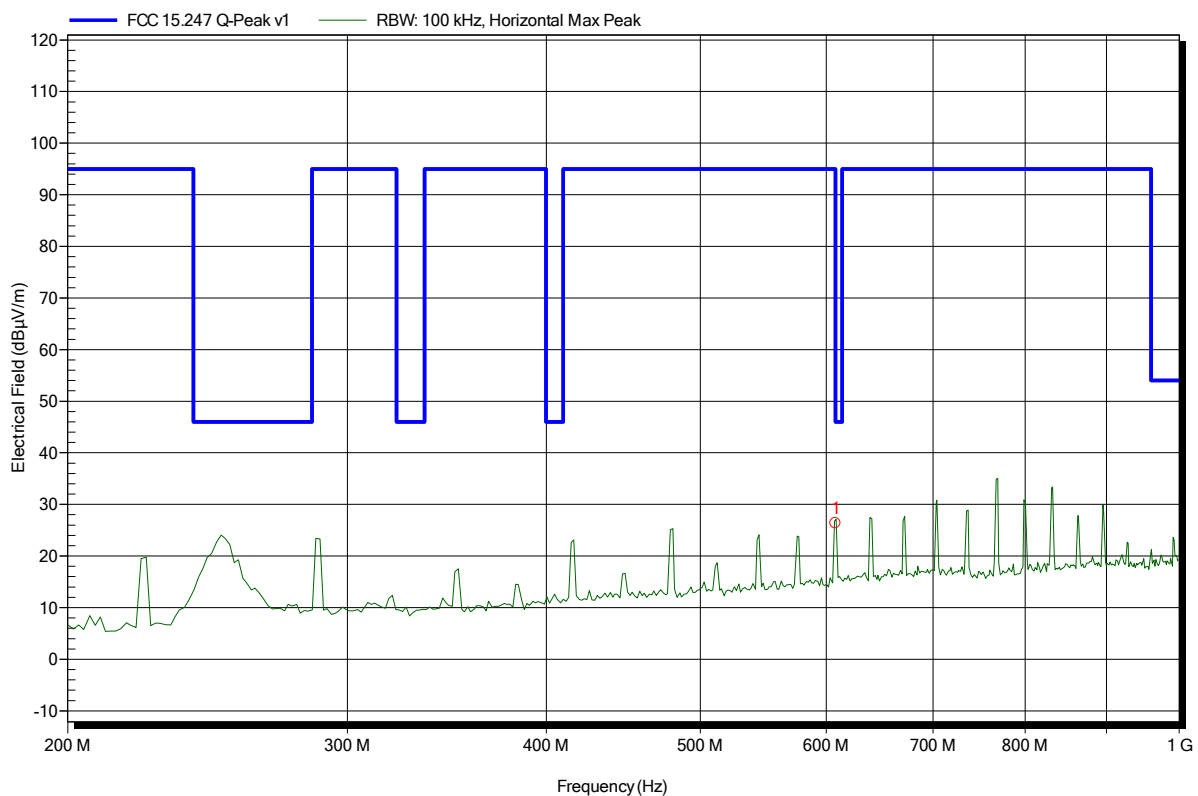
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT vertical; worst case

Index 16



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
608 MHz	26.38 dBµV/m	46 dBµV/m	-19.62 dB	Pass

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

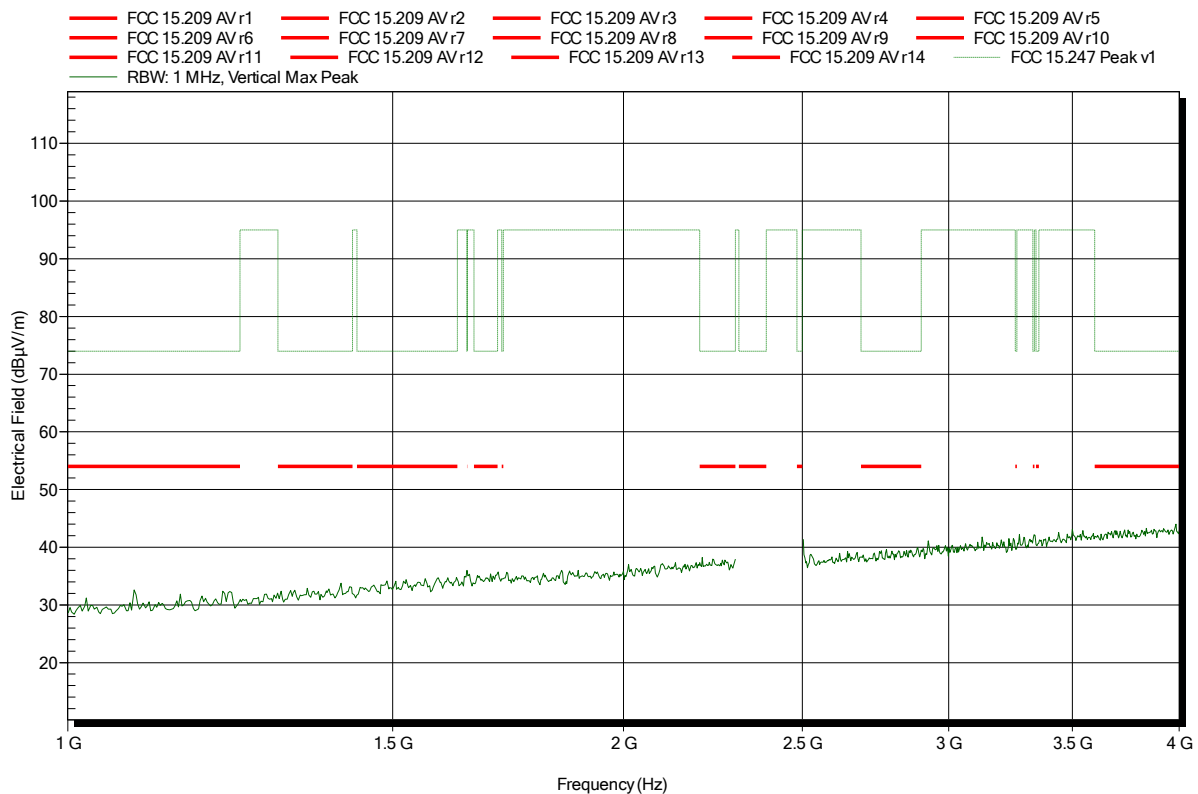
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 124

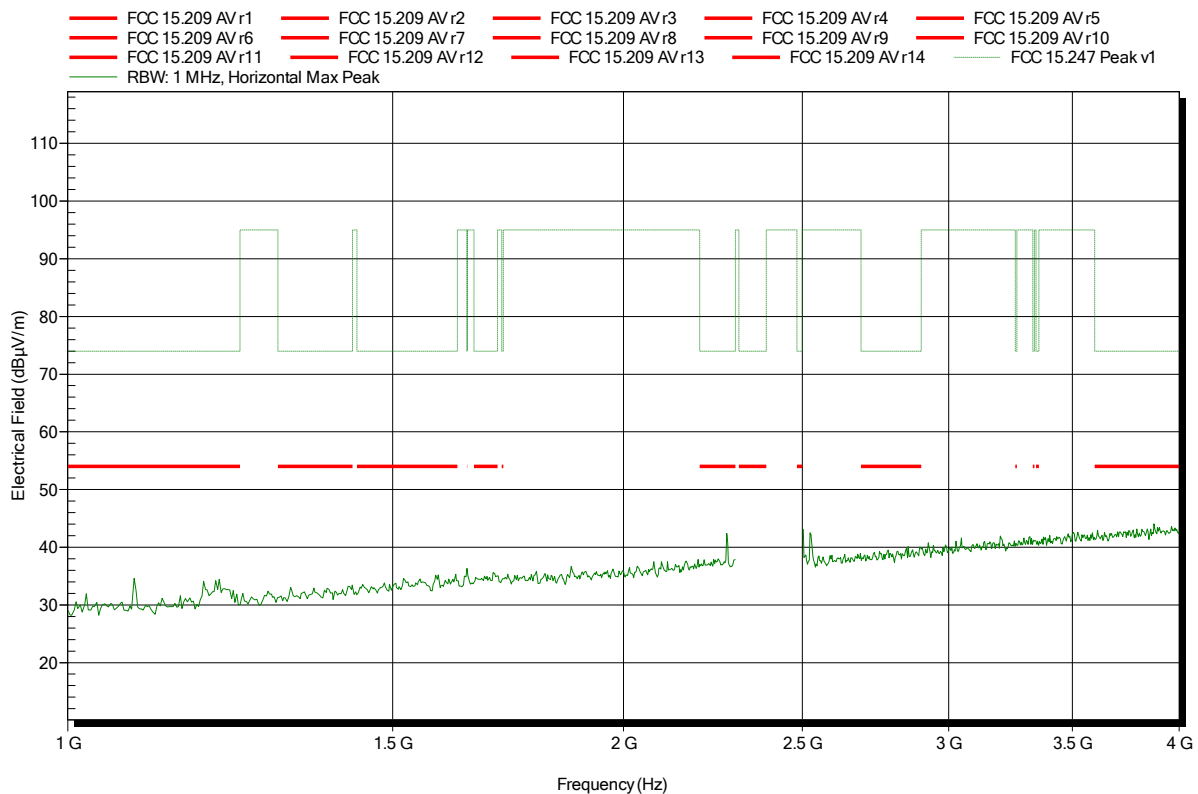


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: GOM-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 129

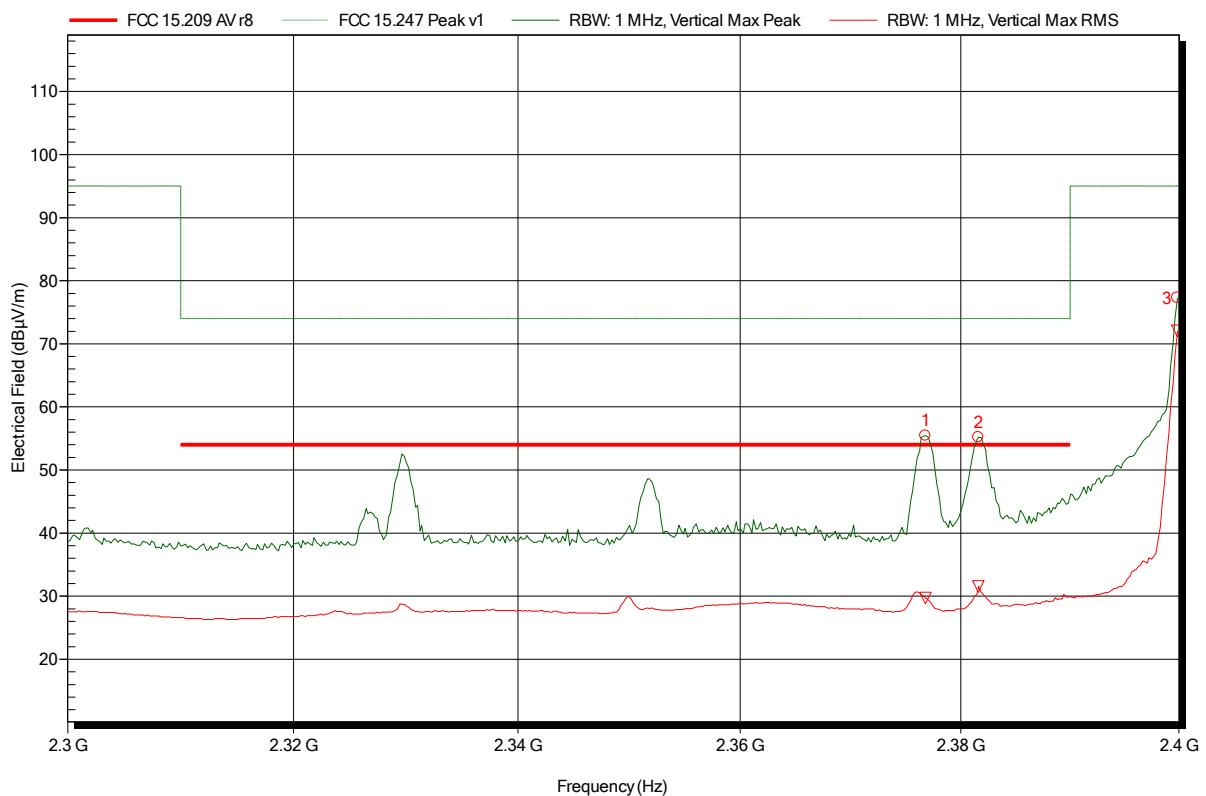


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; lower bandedge

Index 127



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.377 GHz	55.45 dBμV/m	74 dBμV/m	-18.55 dB	Pass
2.382 GHz	55.21 dBμV/m	74 dBμV/m	-18.79 dB	Pass
2.4 GHz	77.3 dBμV/m	95 dBμV/m	-17.7 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.377 GHz	29.71 dBμV/m	54 dBμV/m	-24.29 dB	Pass
2.382 GHz	31.52 dBμV/m	54 dBμV/m	-22.48 dB	Pass
2.4 GHz	72.08 dBμV/m			

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

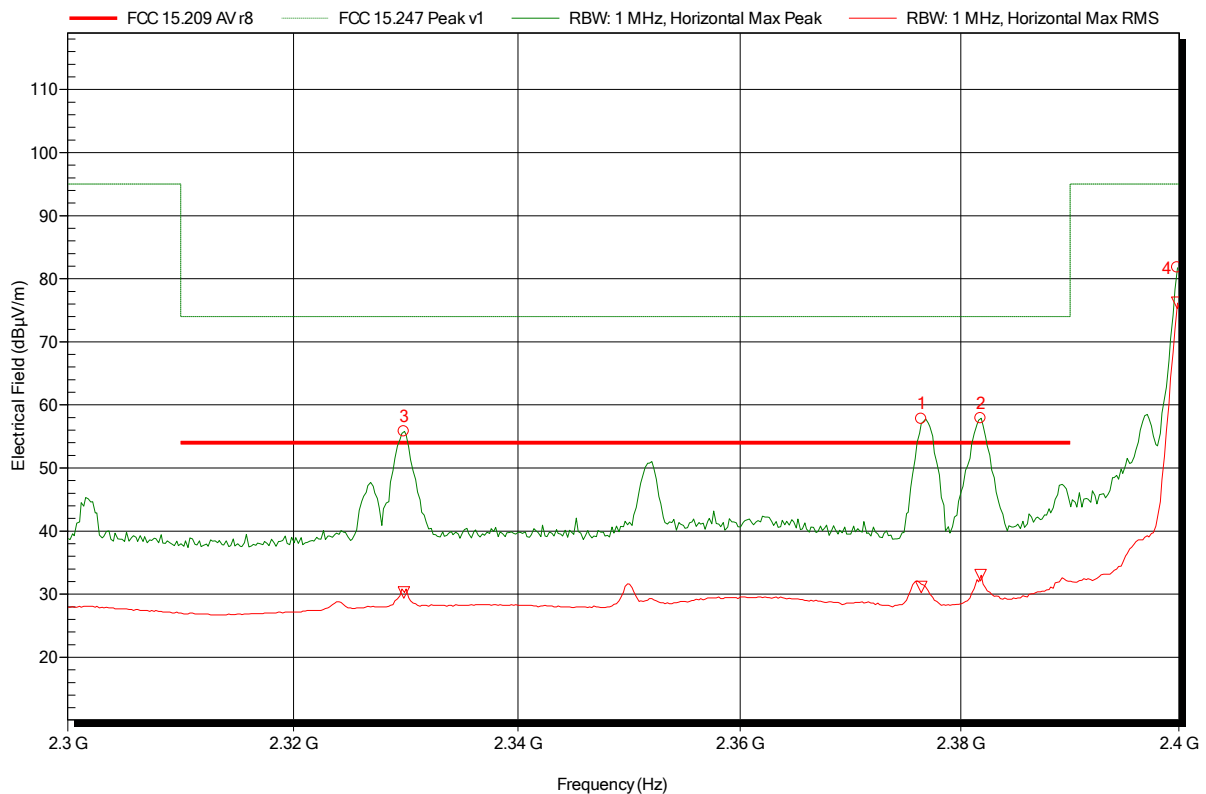
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; lower bandedge

Index 130



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.33 GHz	55.82 dBµV/m	74 dBµV/m	-18.18 dB	Pass
2.376 GHz	57.8 dBµV/m	74 dBµV/m	-16.2 dB	Pass
2.382 GHz	57.88 dBµV/m	74 dBµV/m	-16.12 dB	Pass
2.4 GHz	81.79 dBµV/m	95 dBµV/m	-13.21 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.33 GHz	30.27 dBµV/m	54 dBµV/m	-23.73 dB	Pass
2.376 GHz	31.15 dBµV/m	54 dBµV/m	-22.85 dB	Pass
2.382 GHz	33.01 dBµV/m	54 dBµV/m	-20.99 dB	Pass
2.4 GHz	76.18 dBµV/m			

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

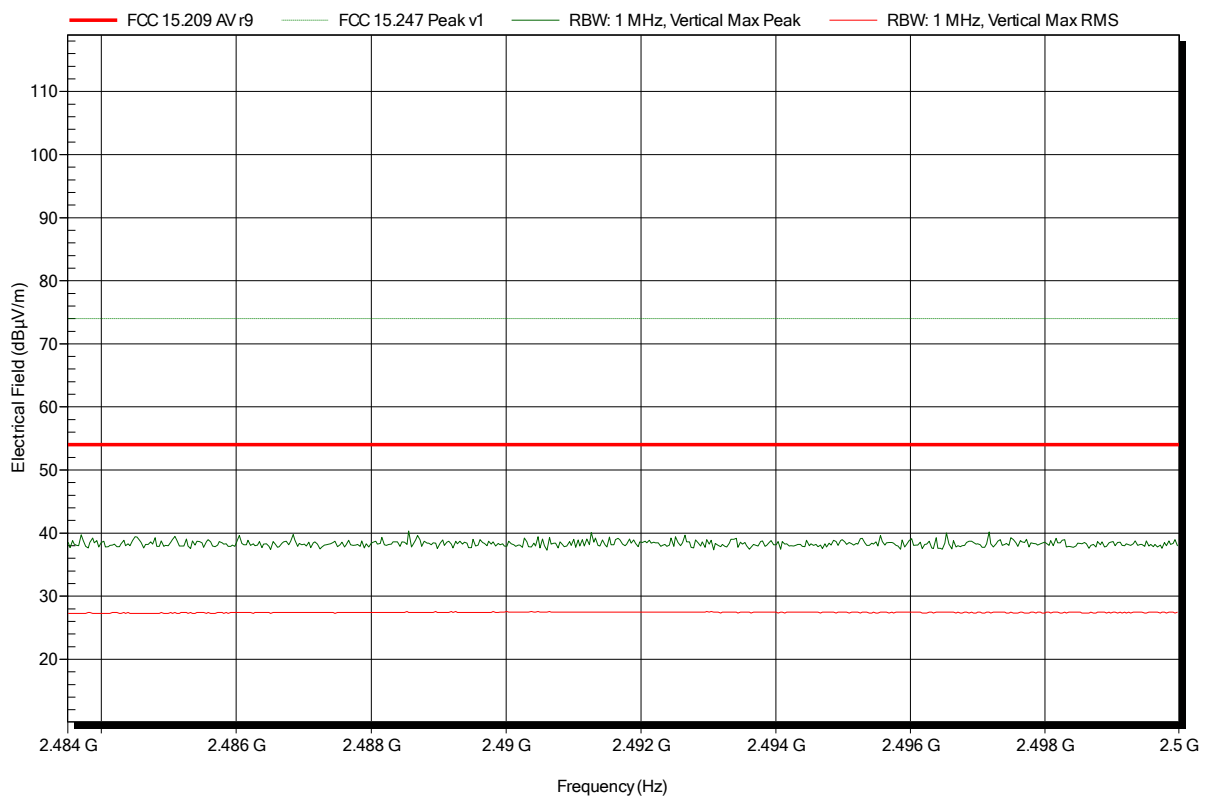
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; upper bandedge

Index 128

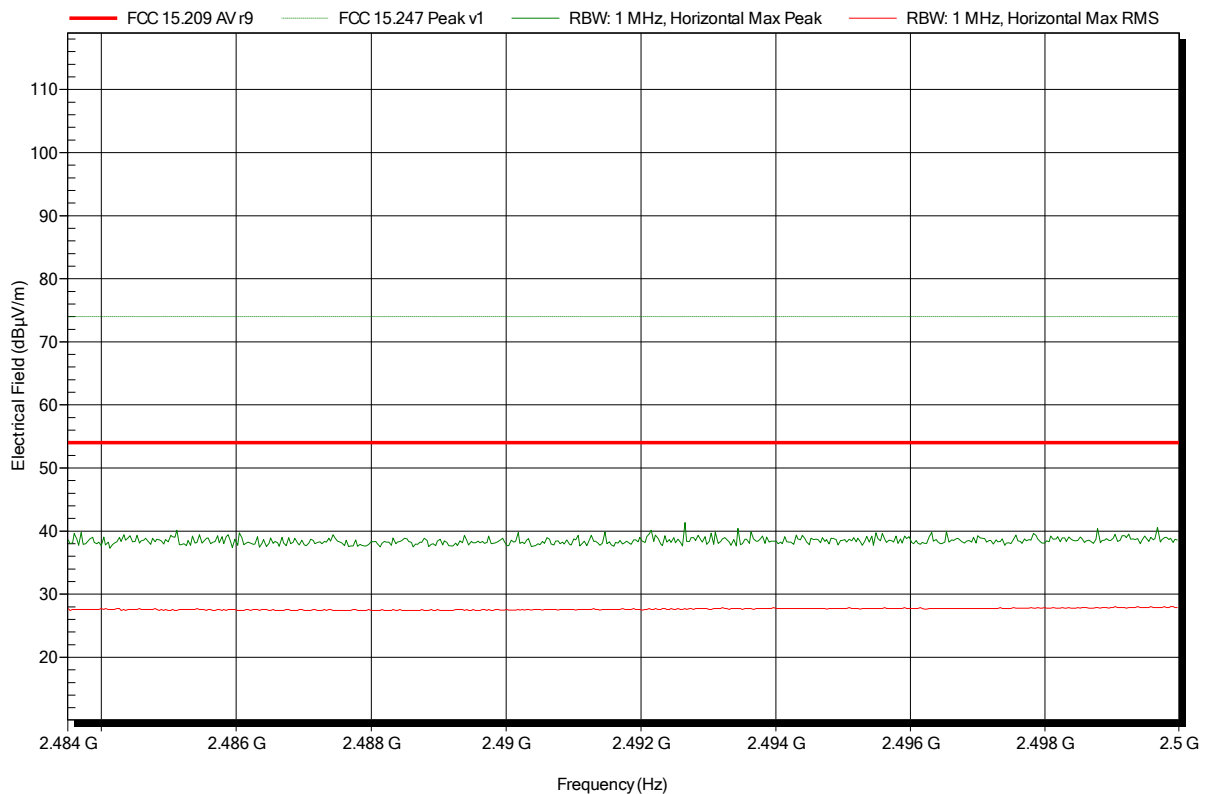


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: GOM-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; upper bandedge

Index 131

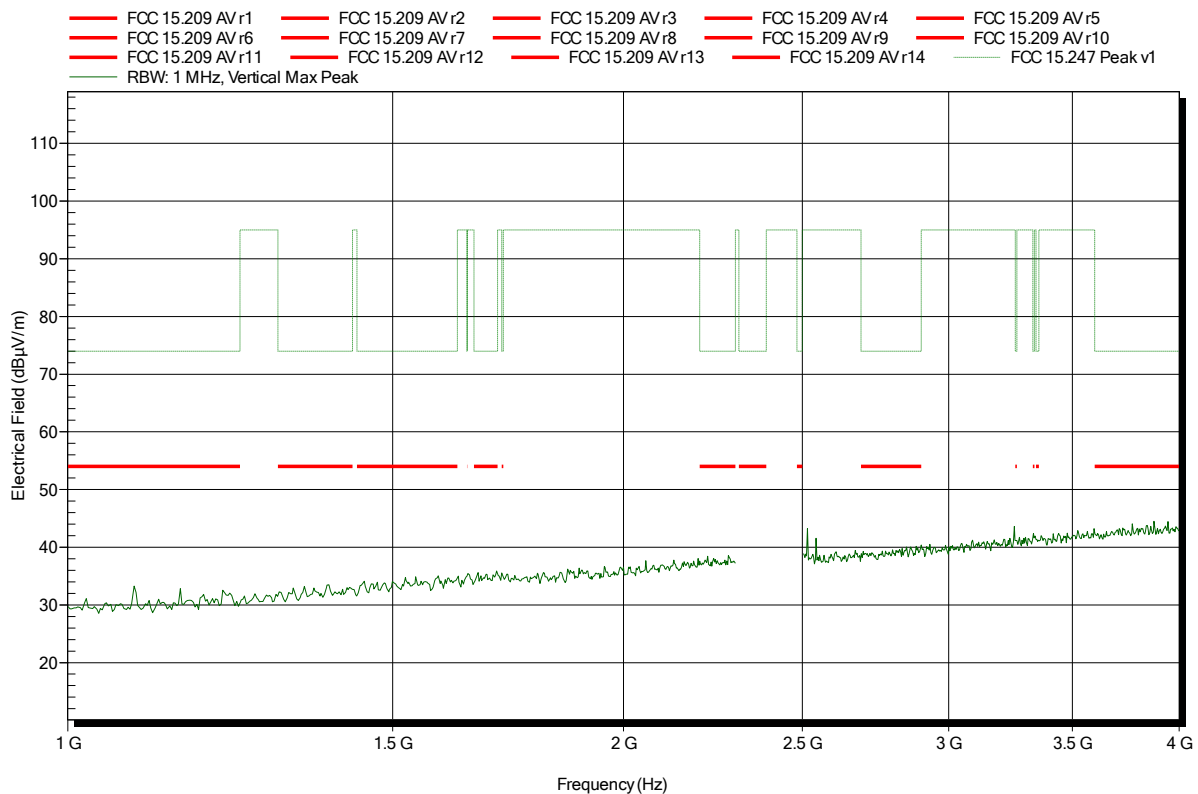


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal

Index 135

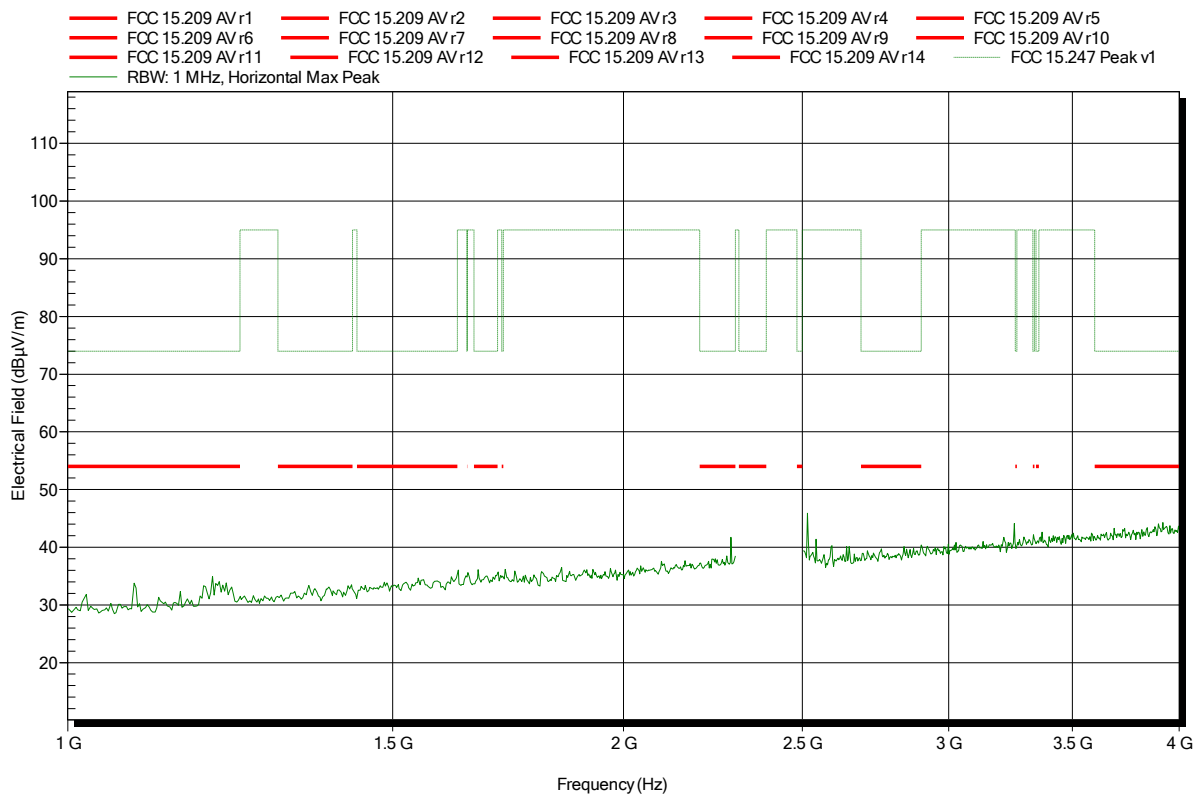


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: GOM-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 132

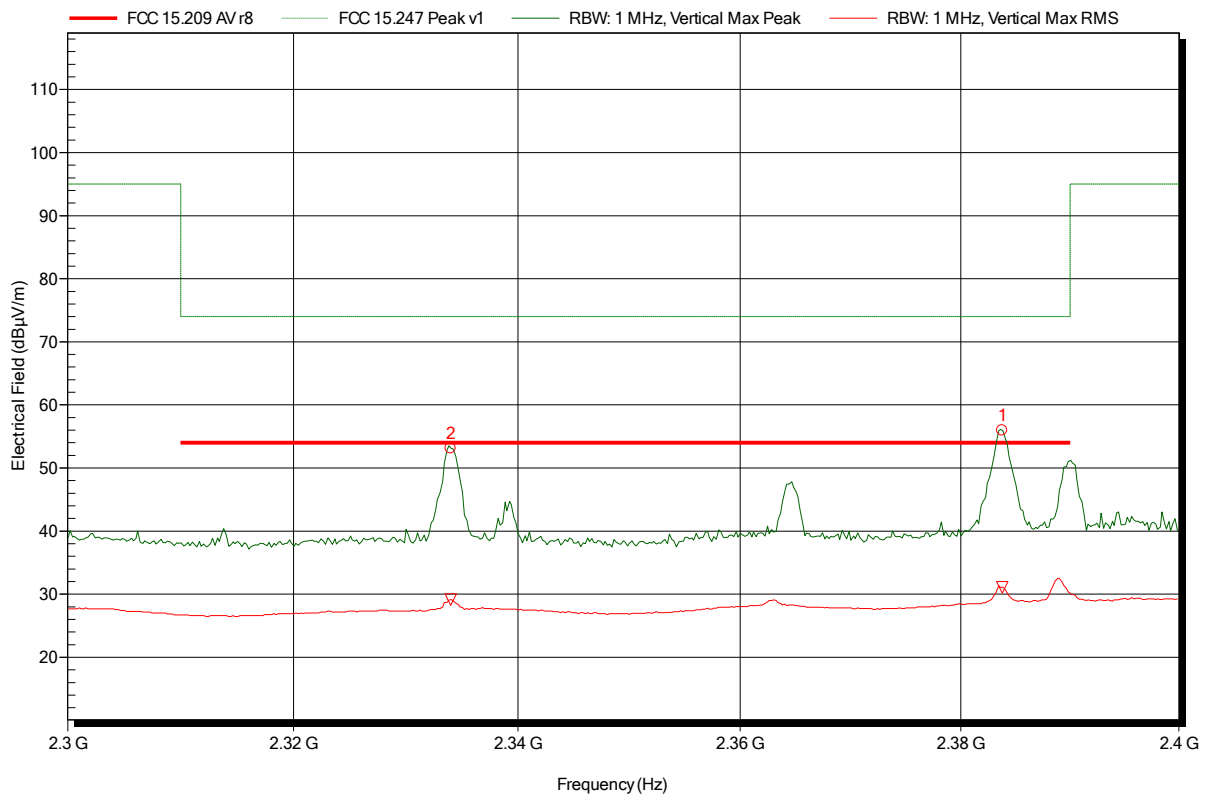


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal; lower bandedge

Index 136



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.334 GHz	53.12 dBµV/m	74 dBµV/m	-20.88 dB	Pass
2.384 GHz	55.97 dBµV/m	74 dBµV/m	-18.03 dB	Pass

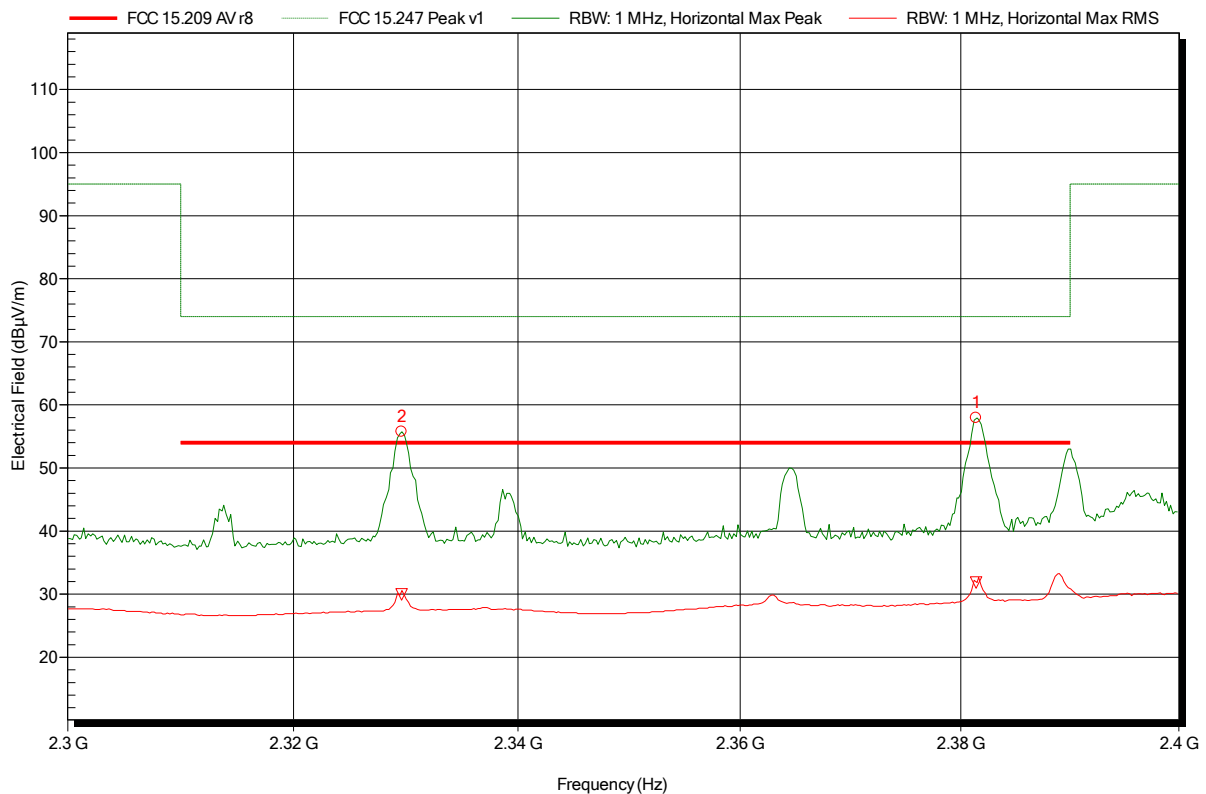
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.334 GHz	29.15 dBµV/m	54 dBµV/m	-24.85 dB	Pass
2.384 GHz	31.1 dBµV/m	54 dBµV/m	-22.9 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; lower bandedge

Index 133



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.33 GHz	55.73 dBµV/m	74 dBµV/m	-18.27 dB	Pass
2.381 GHz	57.96 dBµV/m	74 dBµV/m	-16.04 dB	Pass

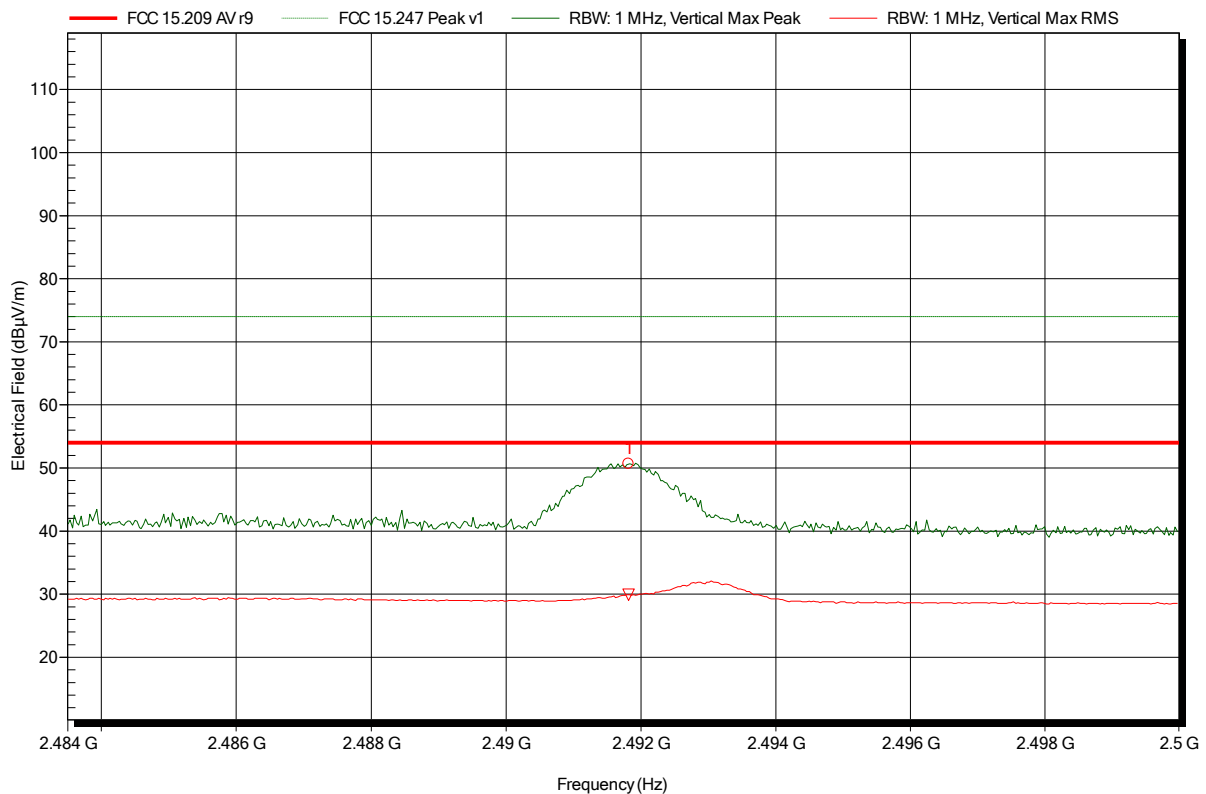
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.33 GHz	29.98 dBµV/m	54 dBµV/m	-24.02 dB	Pass
2.381 GHz	31.86 dBµV/m	54 dBµV/m	-22.14 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal; upper bandedge

Index 137



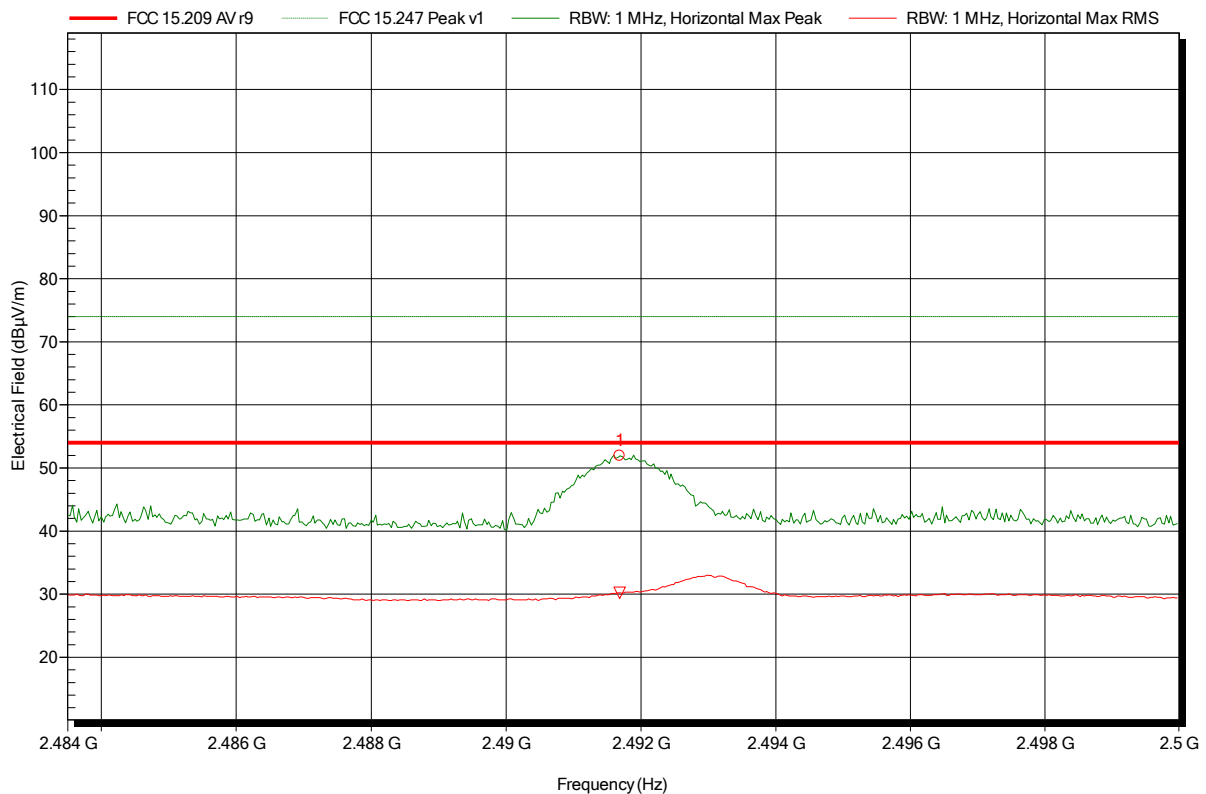
Frequency 2.4918 GHz	Peak 50.65 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -23.35 dB	Peak Status Pass
Frequency 2.4918 GHz	RMS 29.91 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -24.09 dB	RMS Status Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; upper bandedge

Index 134



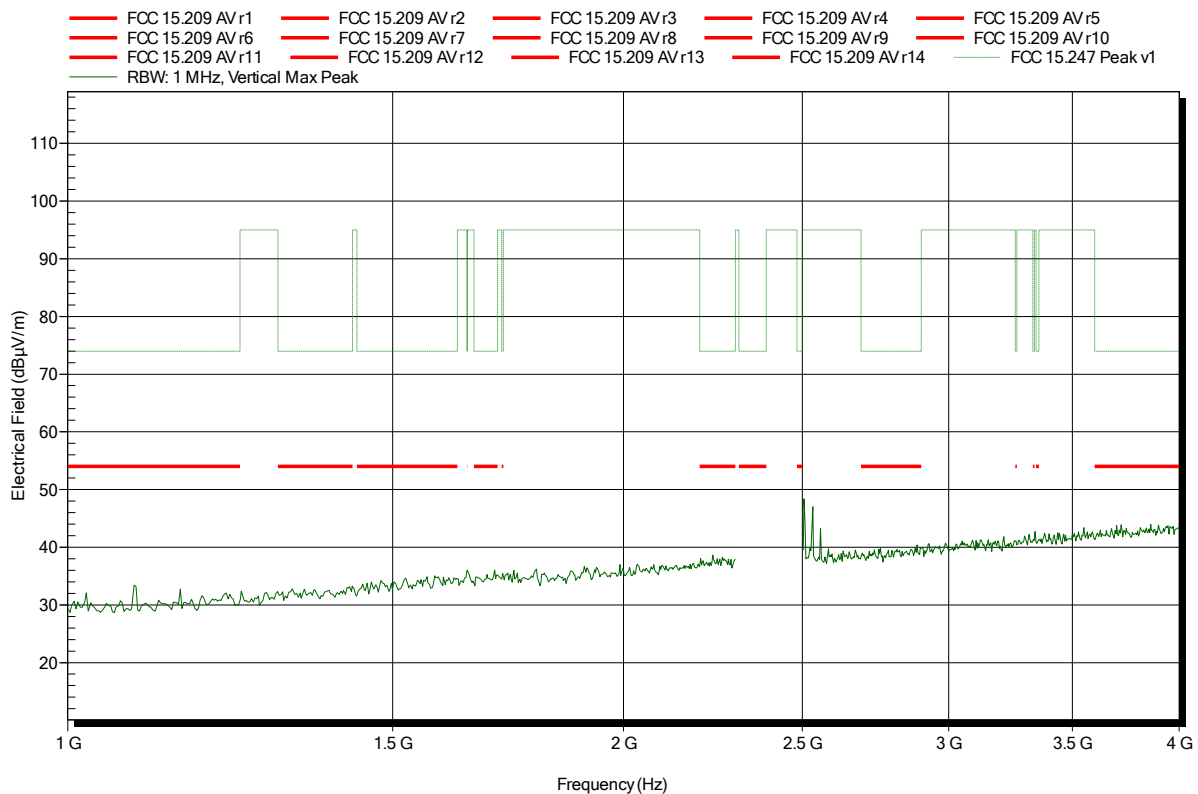
Frequency 2.4917 GHz	Peak 51.94 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -22.06 dB	Peak Status Pass
Frequency 2.4917 GHz	RMS 30.23 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -23.77 dB	RMS Status Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal

Index 138

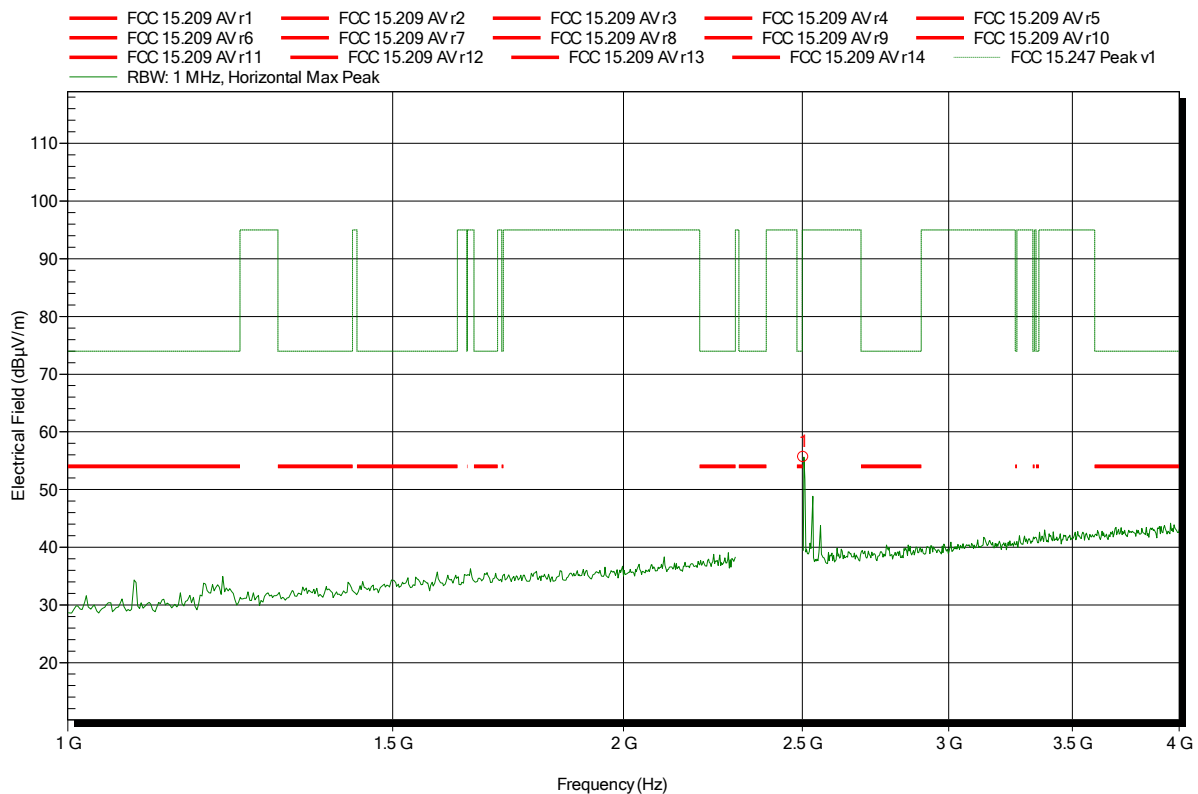


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: GOM-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal

Index 141



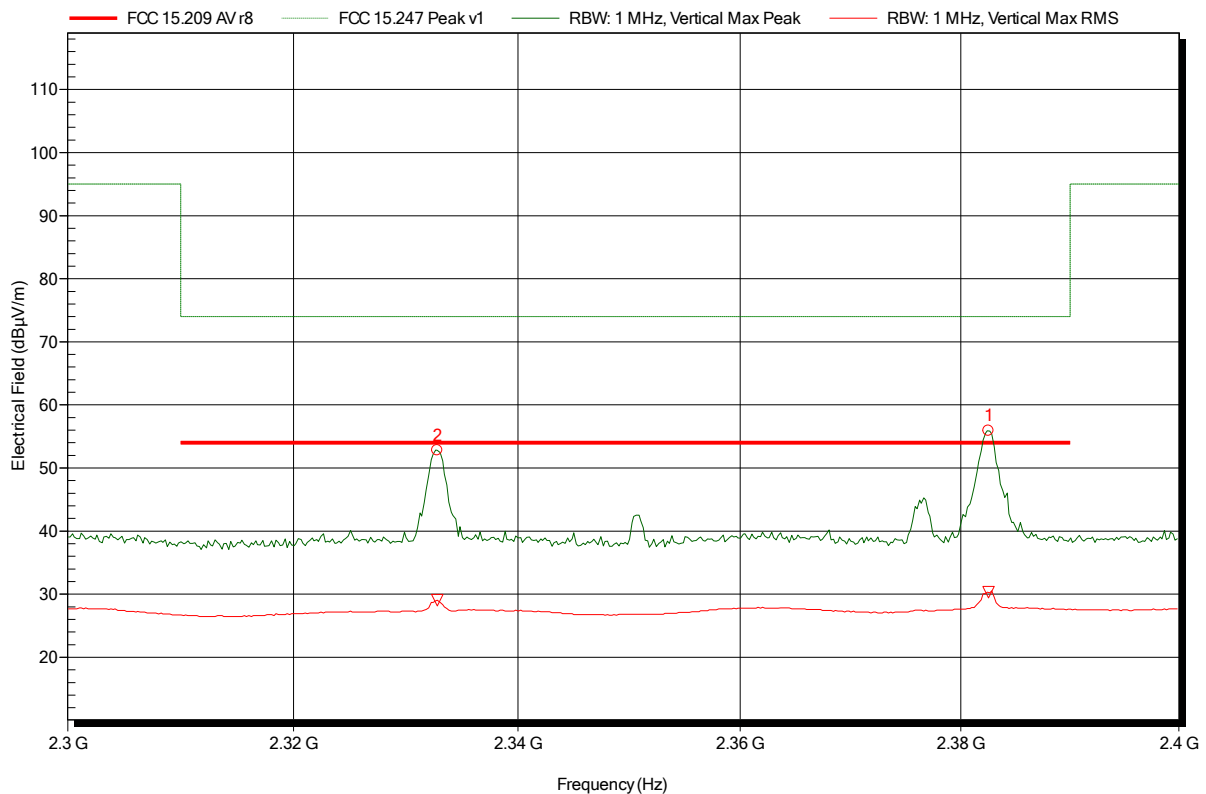
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.503 GHz	55.64 dBµV/m	95 dBµV/m	-39.36 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal; lower bandedge

Index 139



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.333 GHz	52.81 dBµV/m	74 dBµV/m	-21.19 dB	Pass
2.383 GHz	55.91 dBµV/m	74 dBµV/m	-18.09 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.333 GHz	29.04 dBµV/m	54 dBµV/m	-24.96 dB	Pass
2.383 GHz	30.34 dBµV/m	54 dBµV/m	-23.66 dB	Pass

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

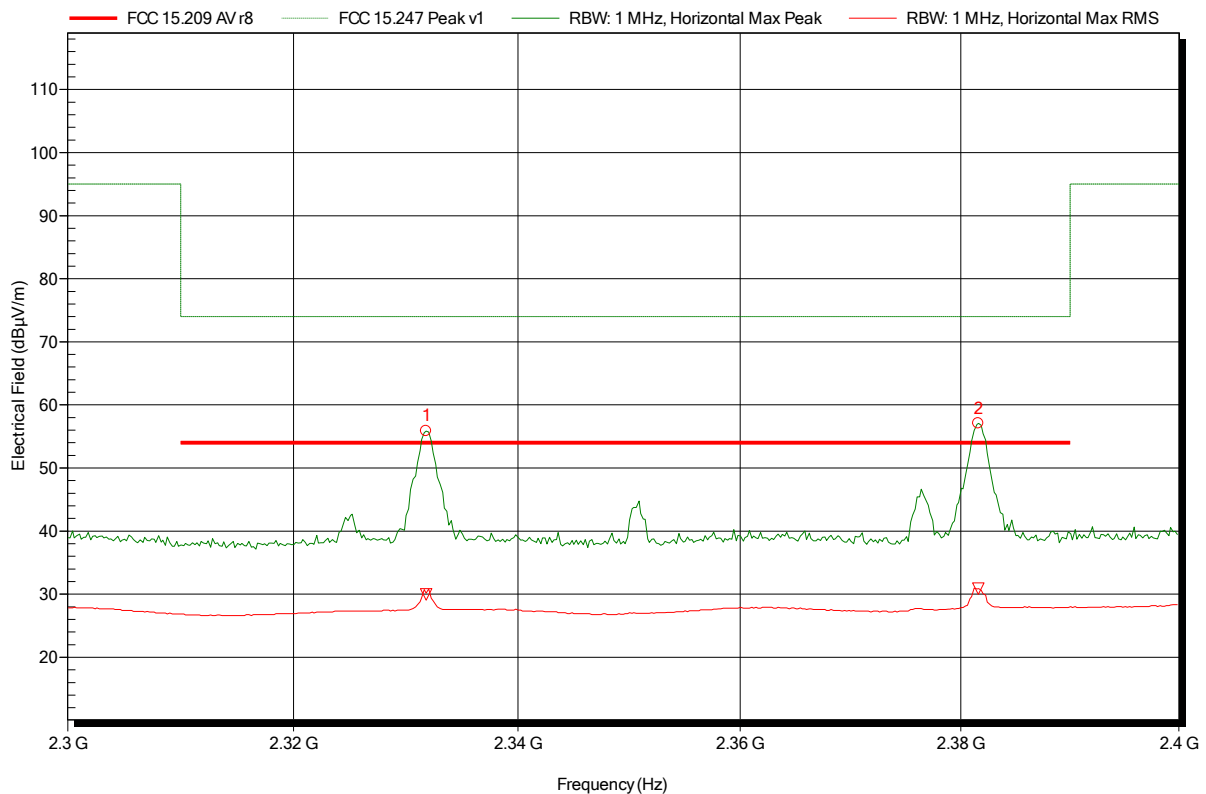
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal; lower bandedge

Index 142



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.332 GHz	55.83 dBµV/m	74 dBµV/m	-18.17 dB	Pass
2.382 GHz	57.08 dBµV/m	74 dBµV/m	-16.92 dB	Pass

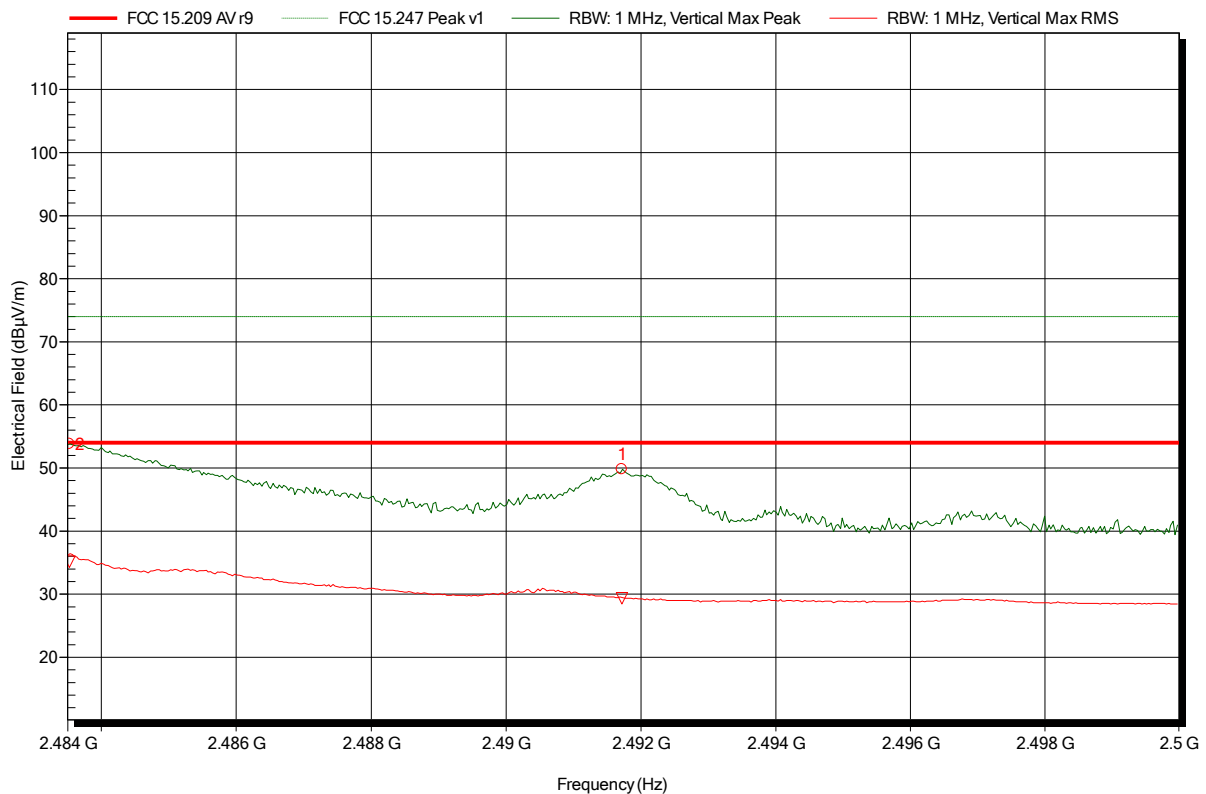
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.332 GHz	29.99 dBµV/m	54 dBµV/m	-24.01 dB	Pass
2.382 GHz	30.9 dBµV/m	54 dBµV/m	-23.1 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal; upper bandedge

Index 145



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4835 GHz	53.79 dBµV/m	74 dBµV/m	-20.21 dB	Pass
2.4917 GHz	49.81 dBµV/m	74 dBµV/m	-24.19 dB	Pass

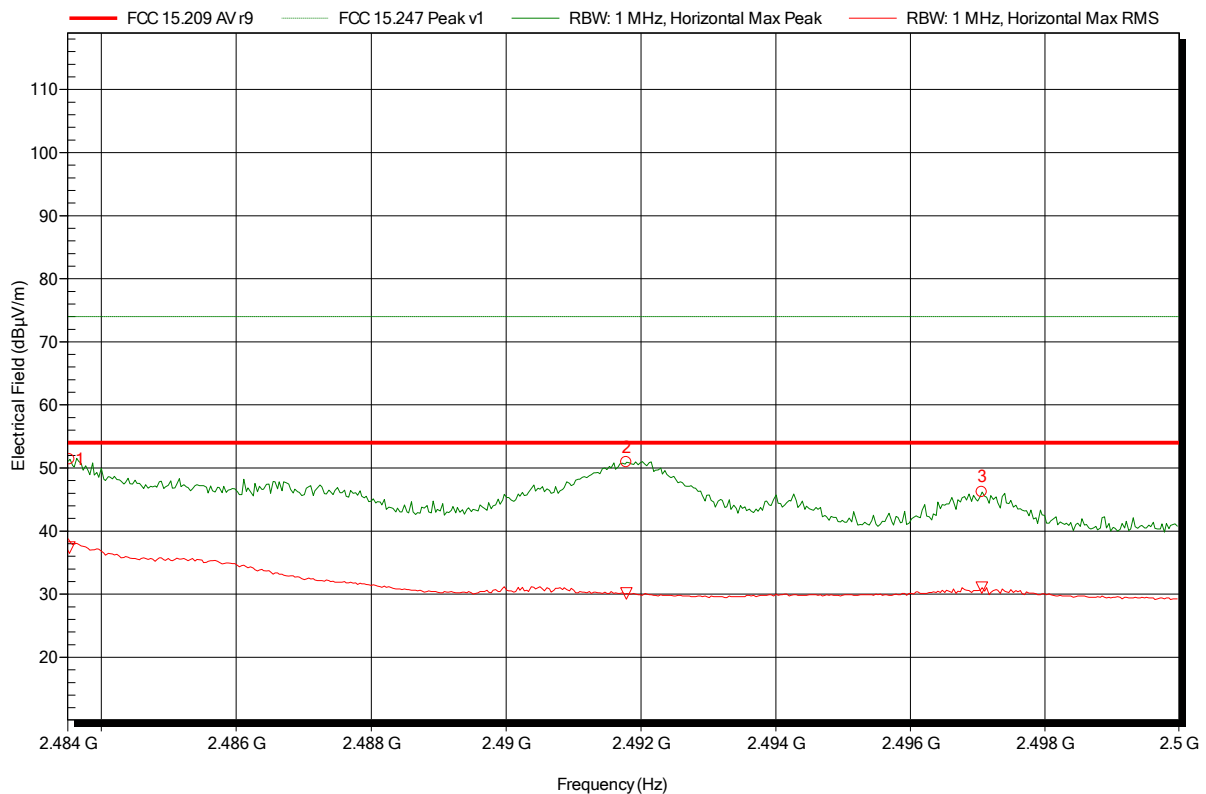
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4835 GHz	35.17 dBµV/m	54 dBµV/m	-18.83 dB	Pass
2.4917 GHz	29.36 dBµV/m	54 dBµV/m	-24.64 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal; upper bandedge

Index 144



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4835 GHz	51.37 dBµV/m	74 dBµV/m	-22.63 dB	Pass
2.4918 GHz	50.9 dBµV/m	74 dBµV/m	-23.1 dB	Pass
2.4971 GHz	46.18 dBµV/m	74 dBµV/m	-27.82 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4835 GHz	37.38 dBµV/m	54 dBµV/m	-16.62 dB	Pass
2.4918 GHz	30.12 dBµV/m	54 dBµV/m	-23.88 dB	Pass
2.4971 GHz	31.04 dBµV/m	54 dBµV/m	-22.96 dB	Pass

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

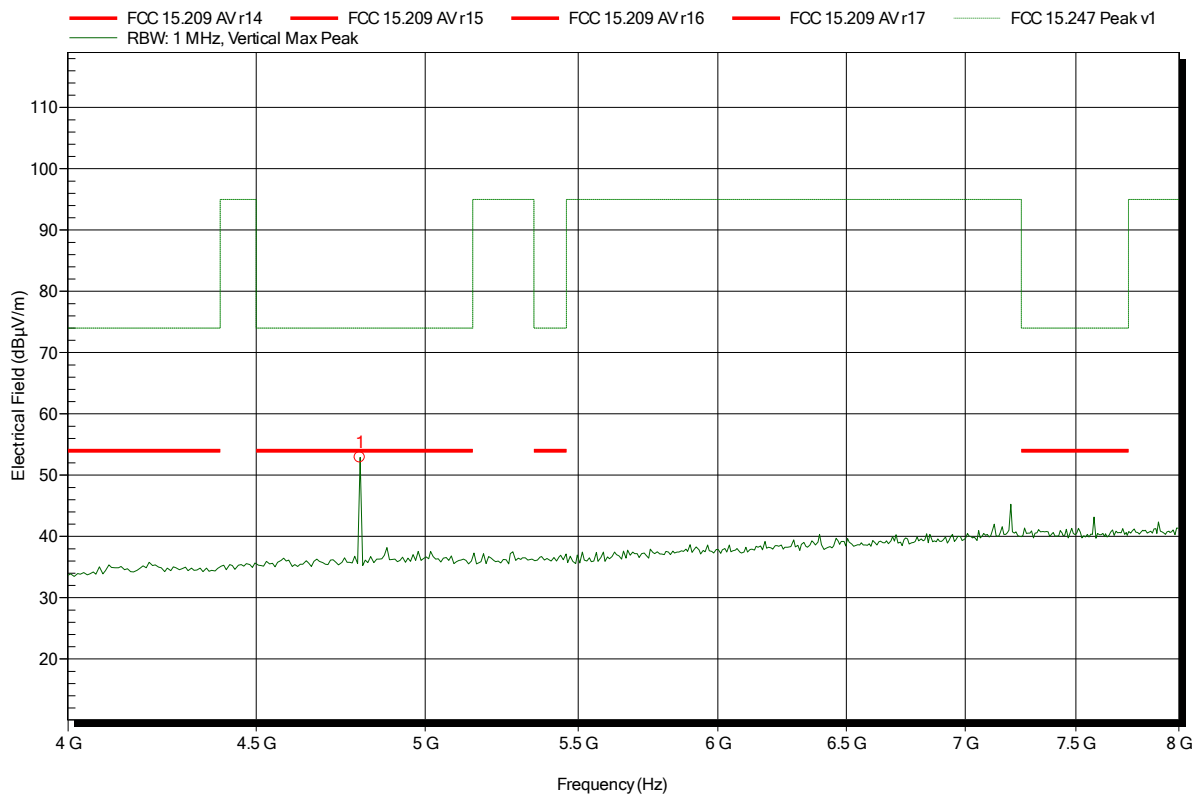
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 121



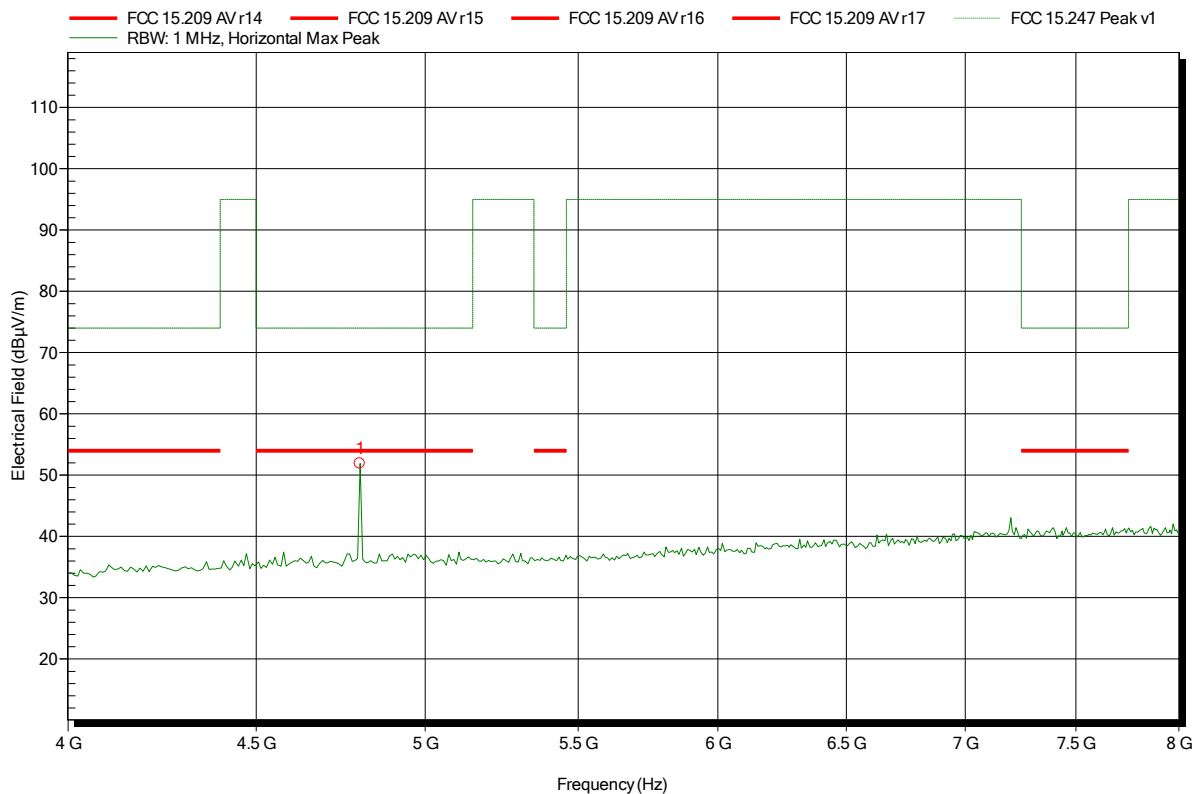
Frequency	Peak	Peak Limit	Peak Difference	Status
4.8 GHz	52.91 dBµV/m	74 dBµV/m	-21.09 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 106



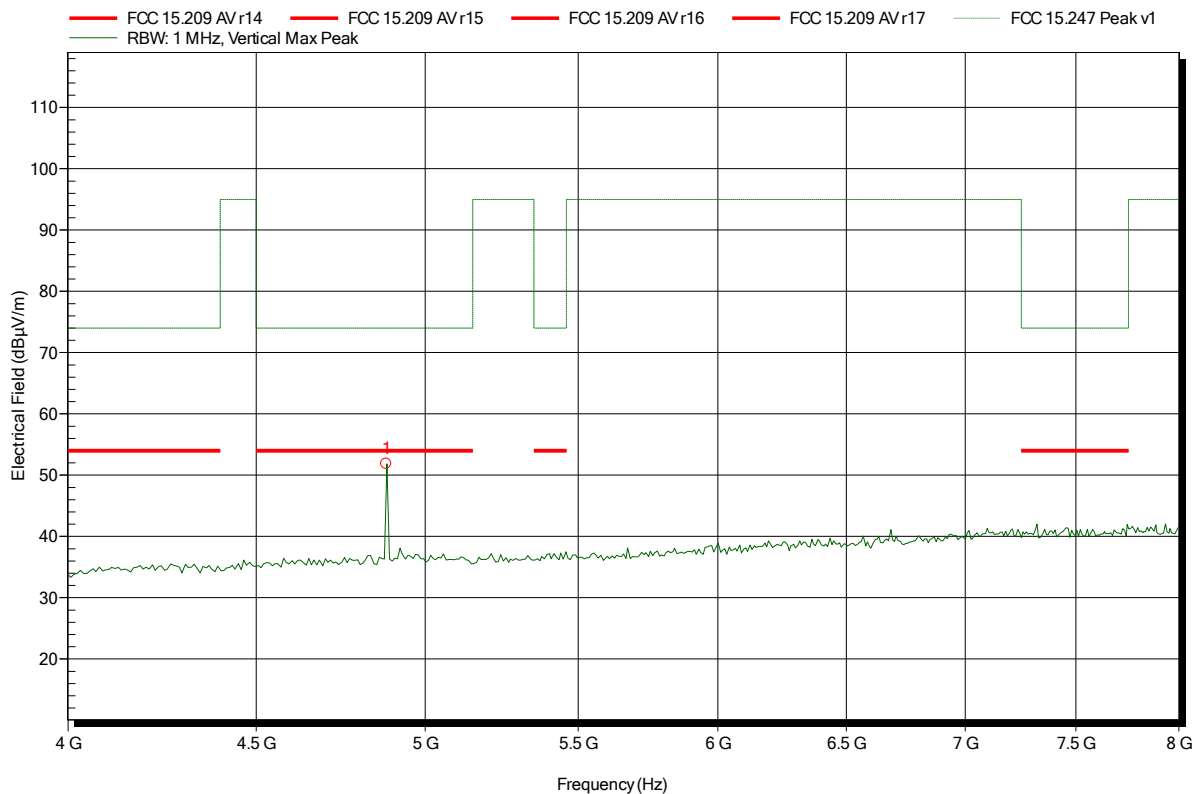
Frequency	Peak	Peak Limit	Peak Difference	Status
4.8 GHz	51.93 dBµV/m	74 dBµV/m	-22.07 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 118



Frequency	Peak	Peak Limit	Peak Difference	Status
4.88 GHz	51.83 dBµV/m	74 dBµV/m	-22.17 dB	Pass

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

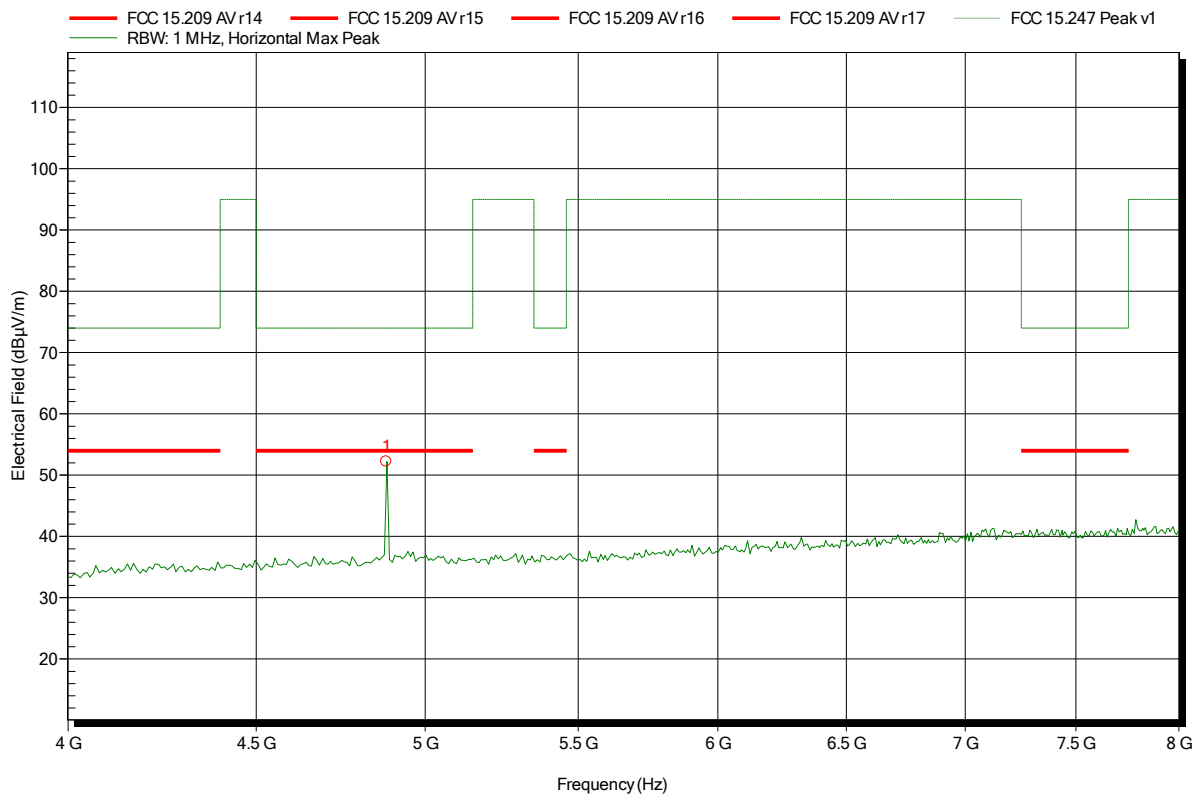
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 109



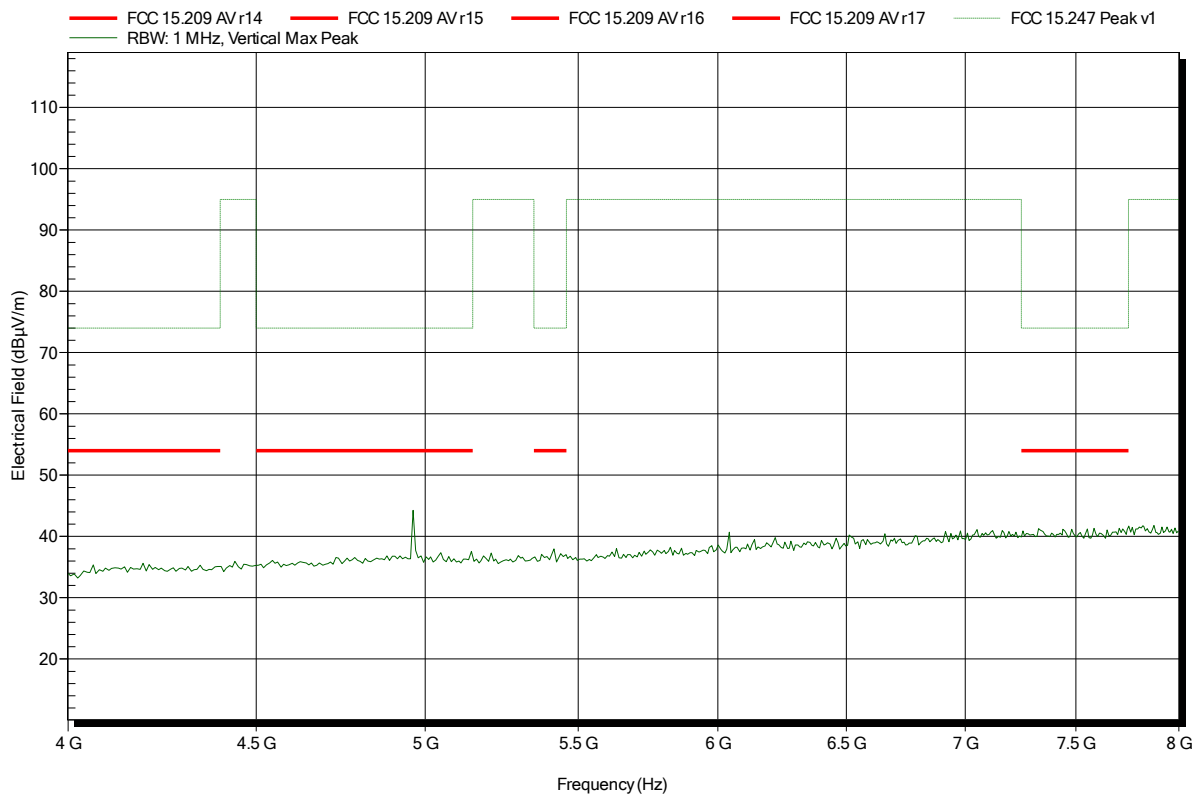
Frequency	Peak	Peak Limit	Peak Difference	Status
4.88 GHz	52.2 dBµV/m	74 dBµV/m	-21.8 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 115

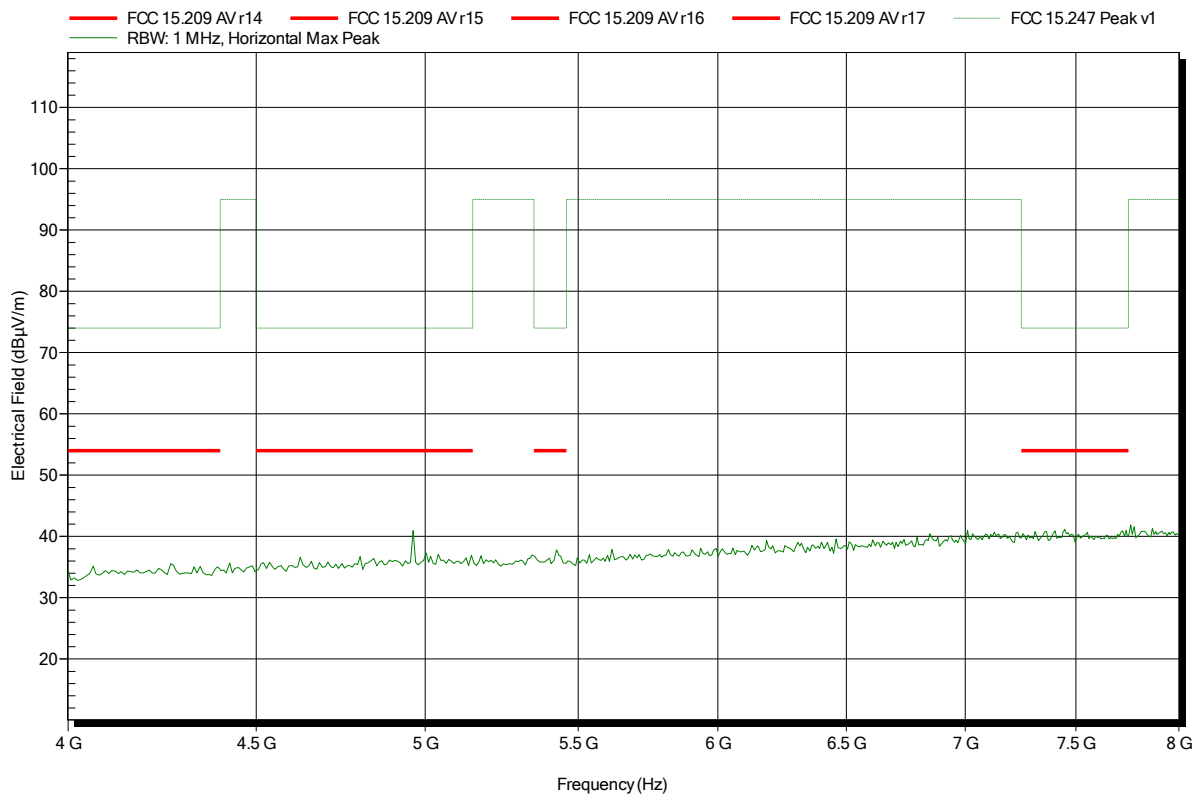


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 112

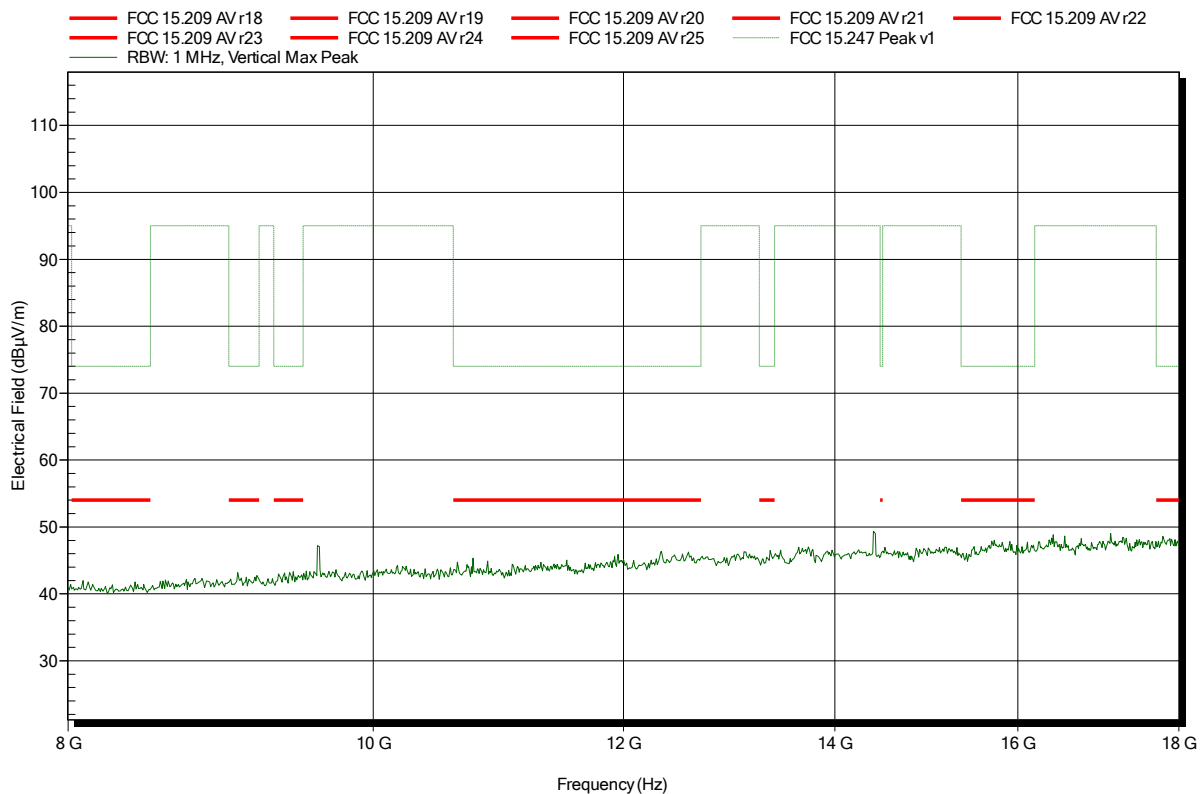


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; worstcase

Index 122

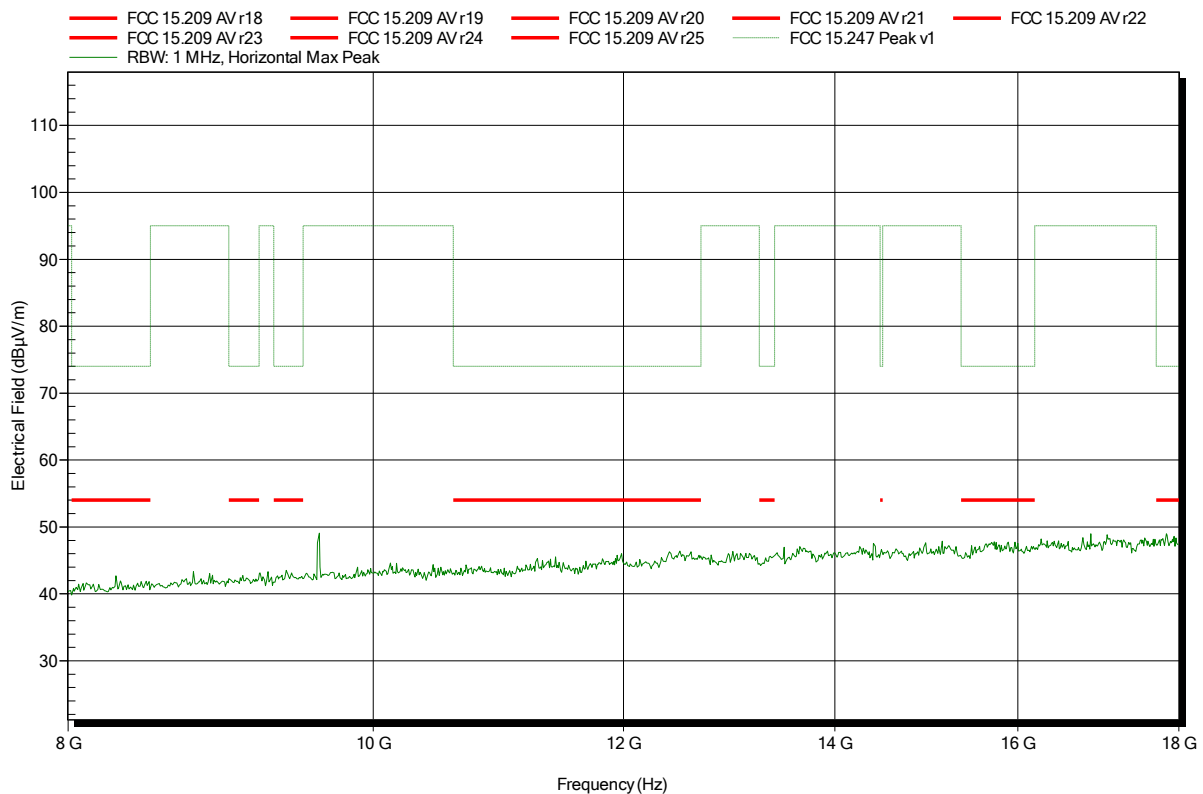


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; worstcase

Index 107

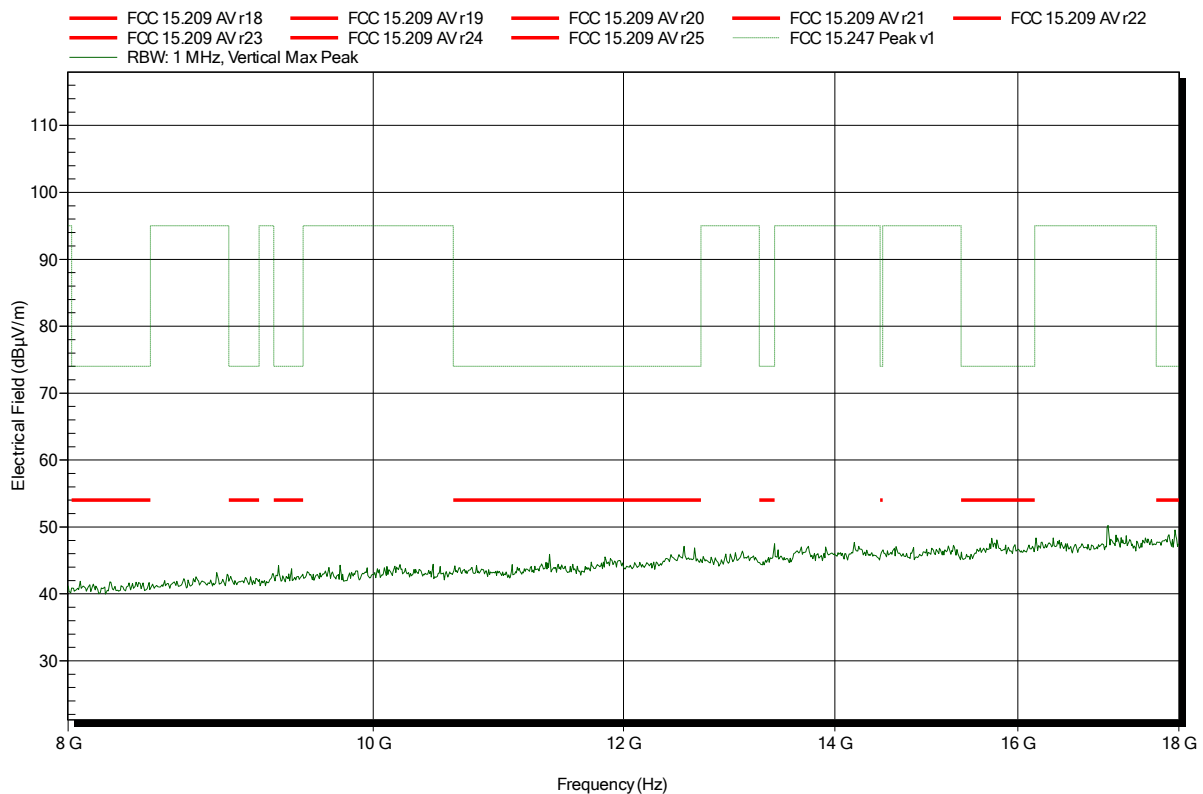


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; worstcase

Index 119

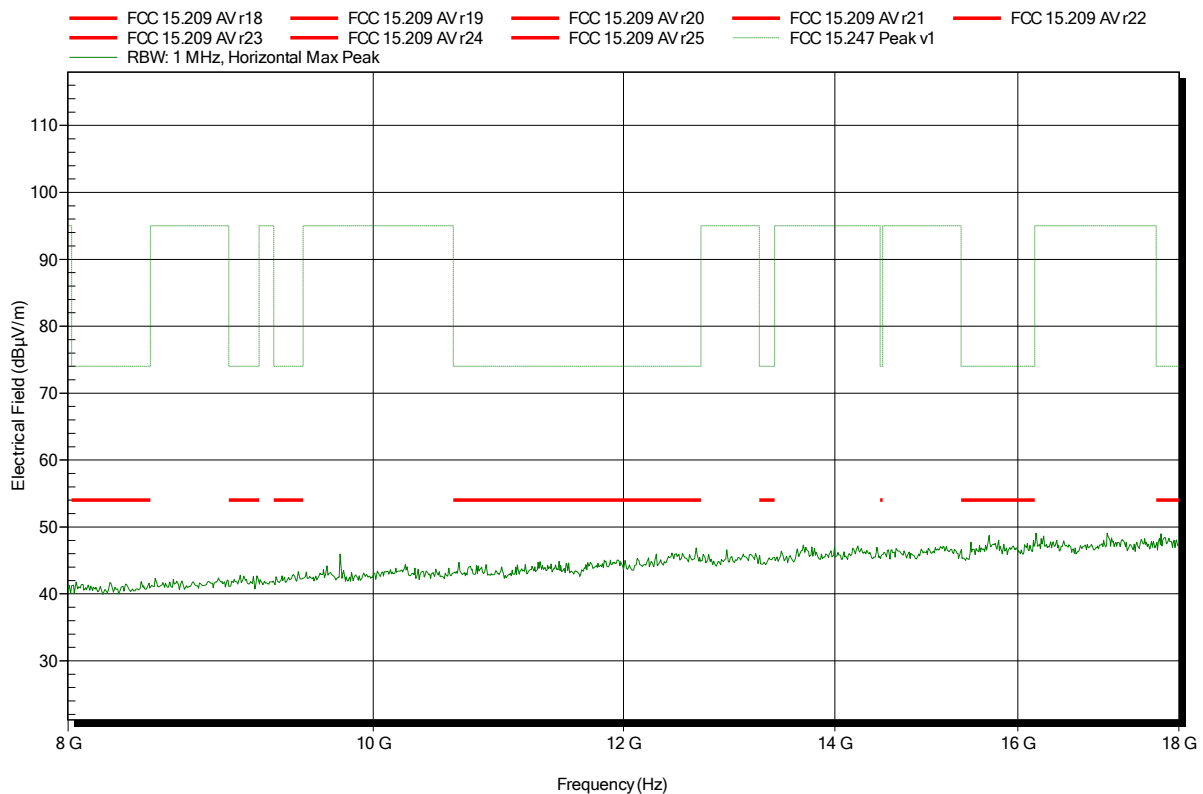


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; worstcase

Index 110

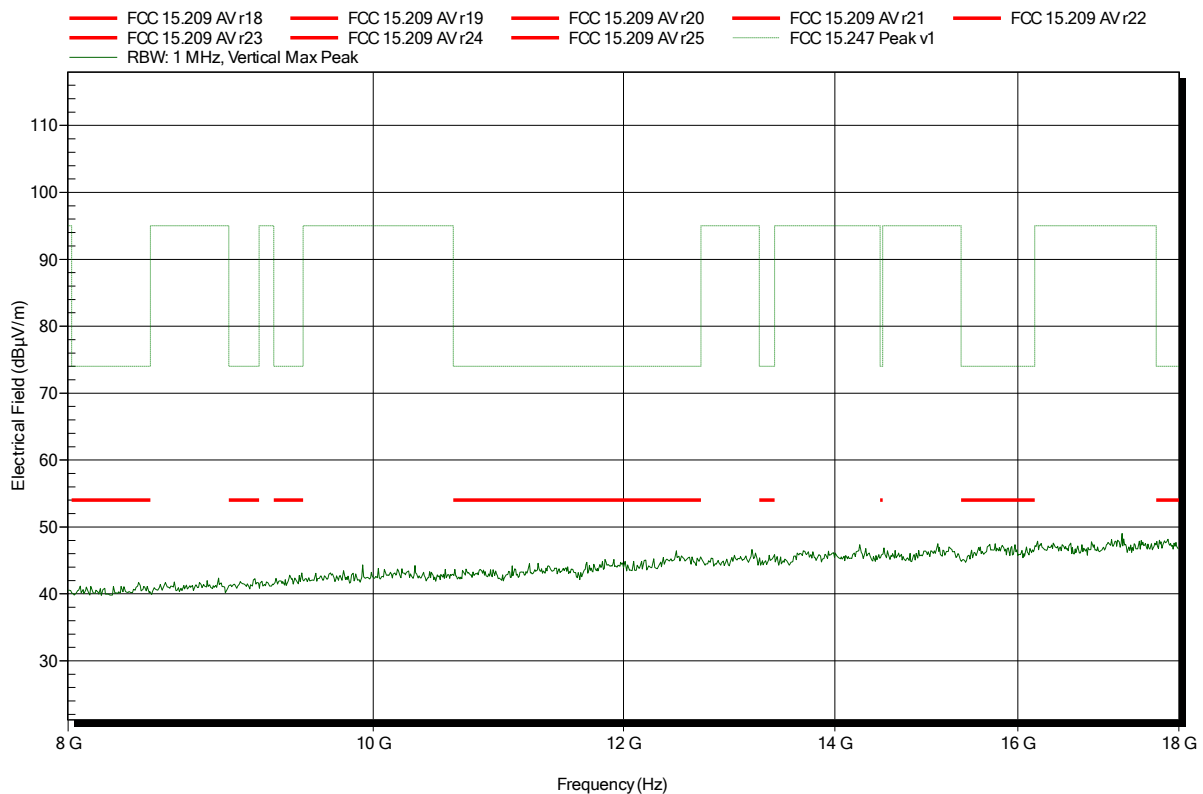


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; worstcase

Index 116

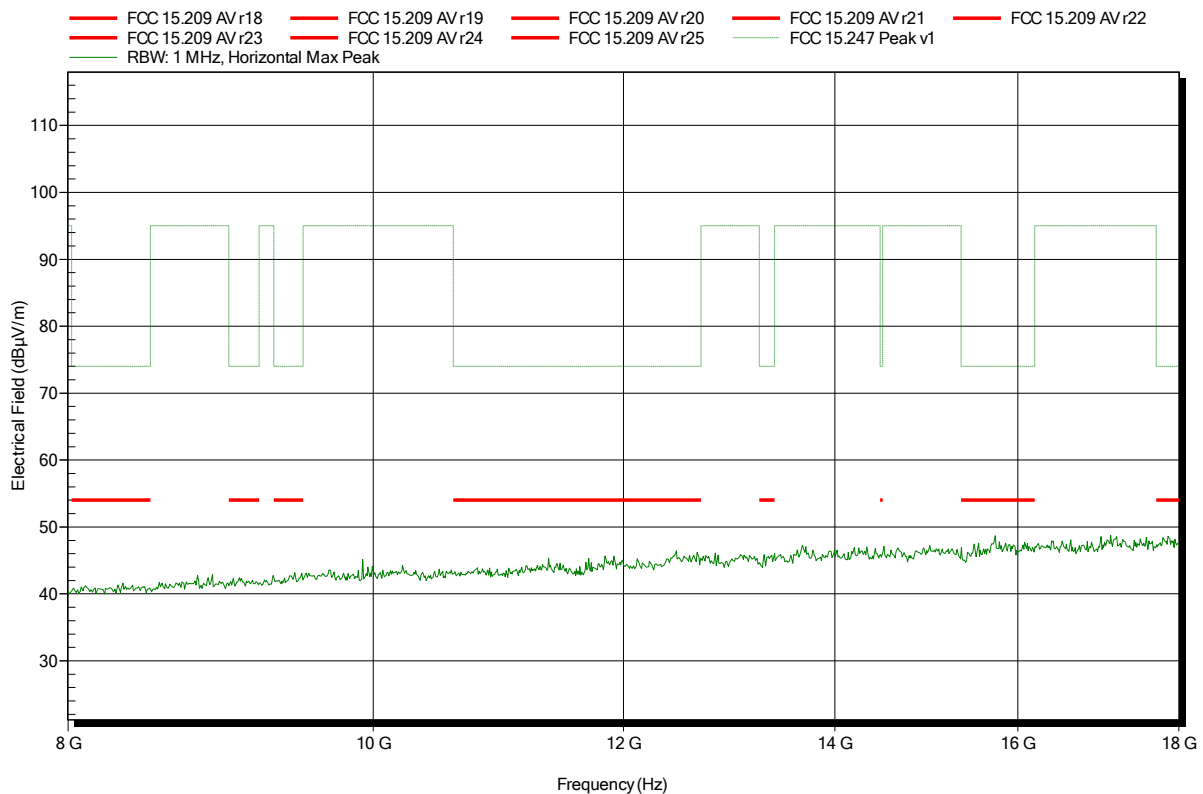


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; worstcase

Index 113

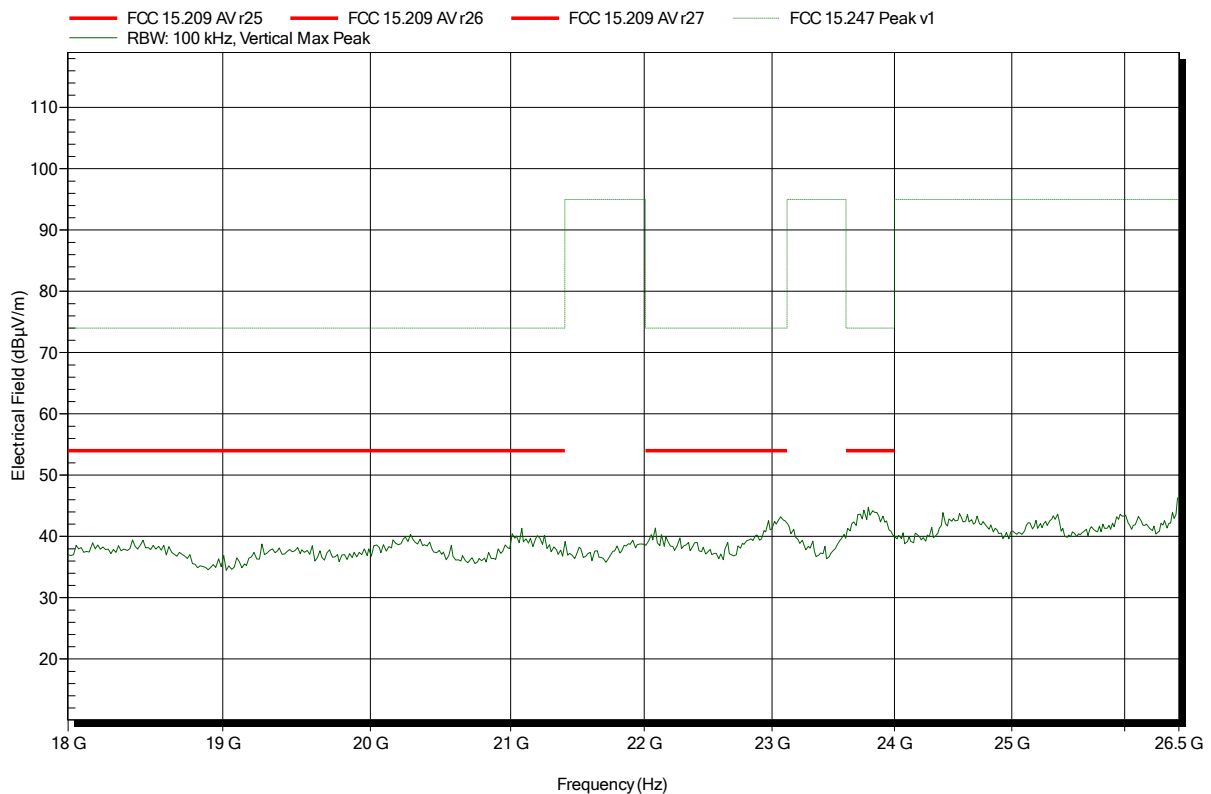


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal; worst case

Index 146

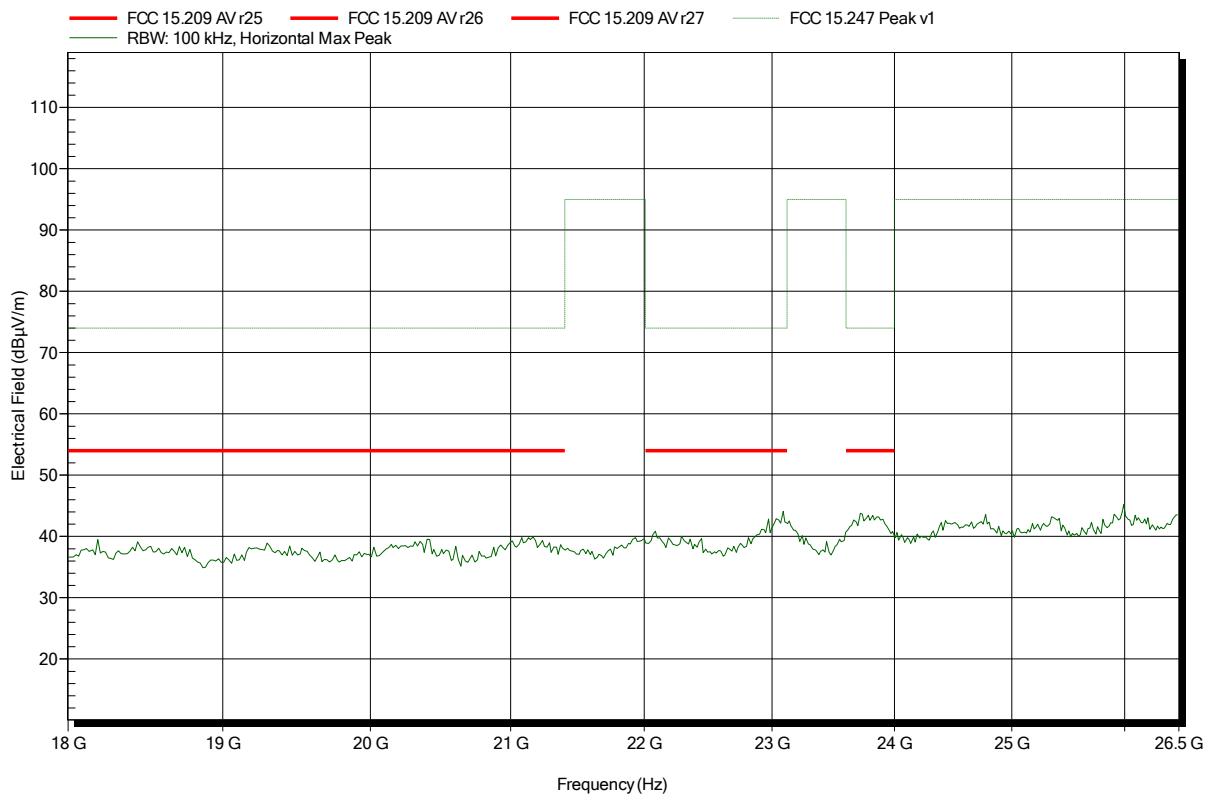


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 0; 2402 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; worst case

Index 108

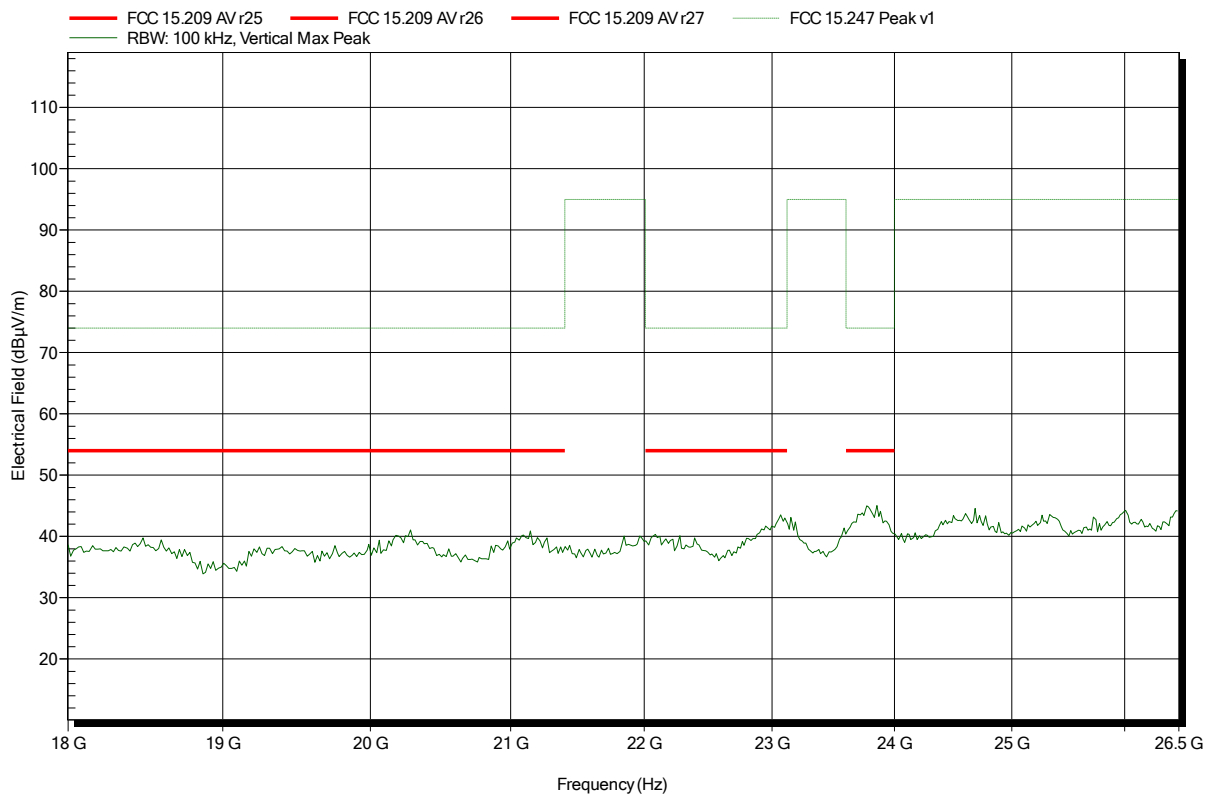


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal; worst case

Index 147

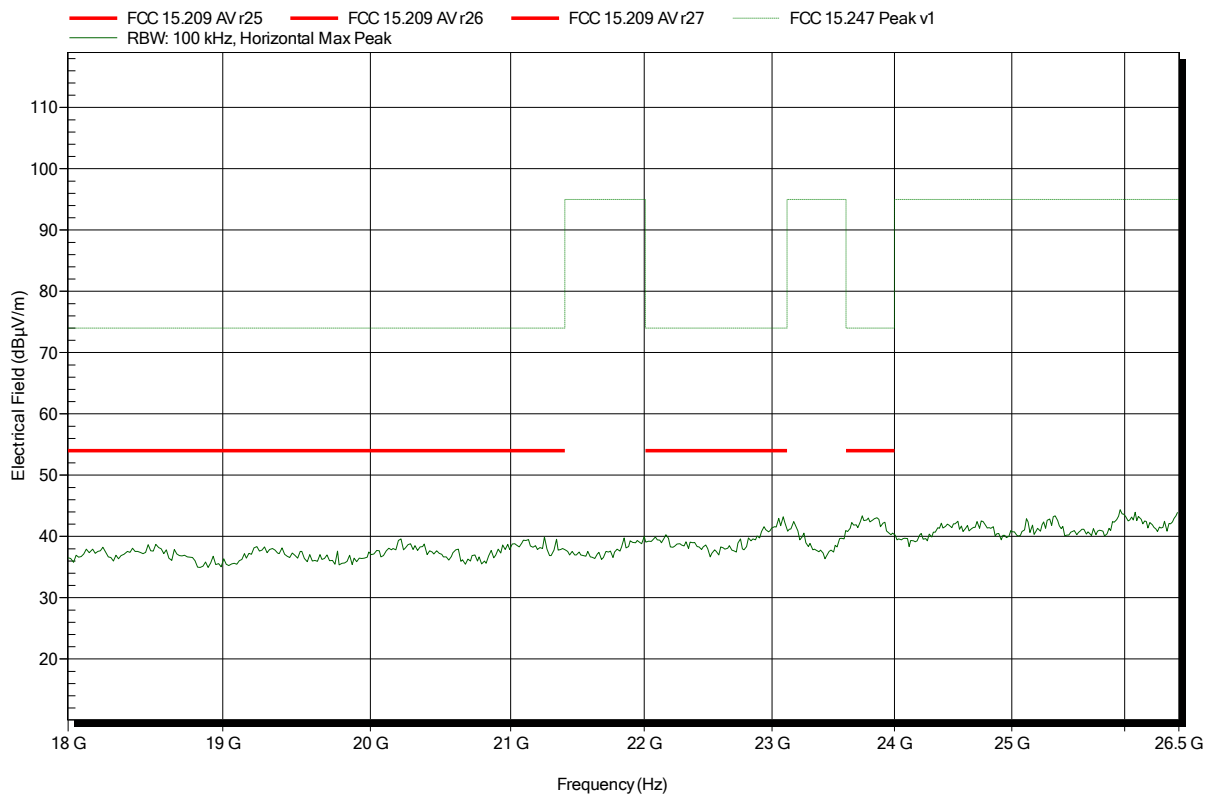


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 39; 2441 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; worst case

Index 111

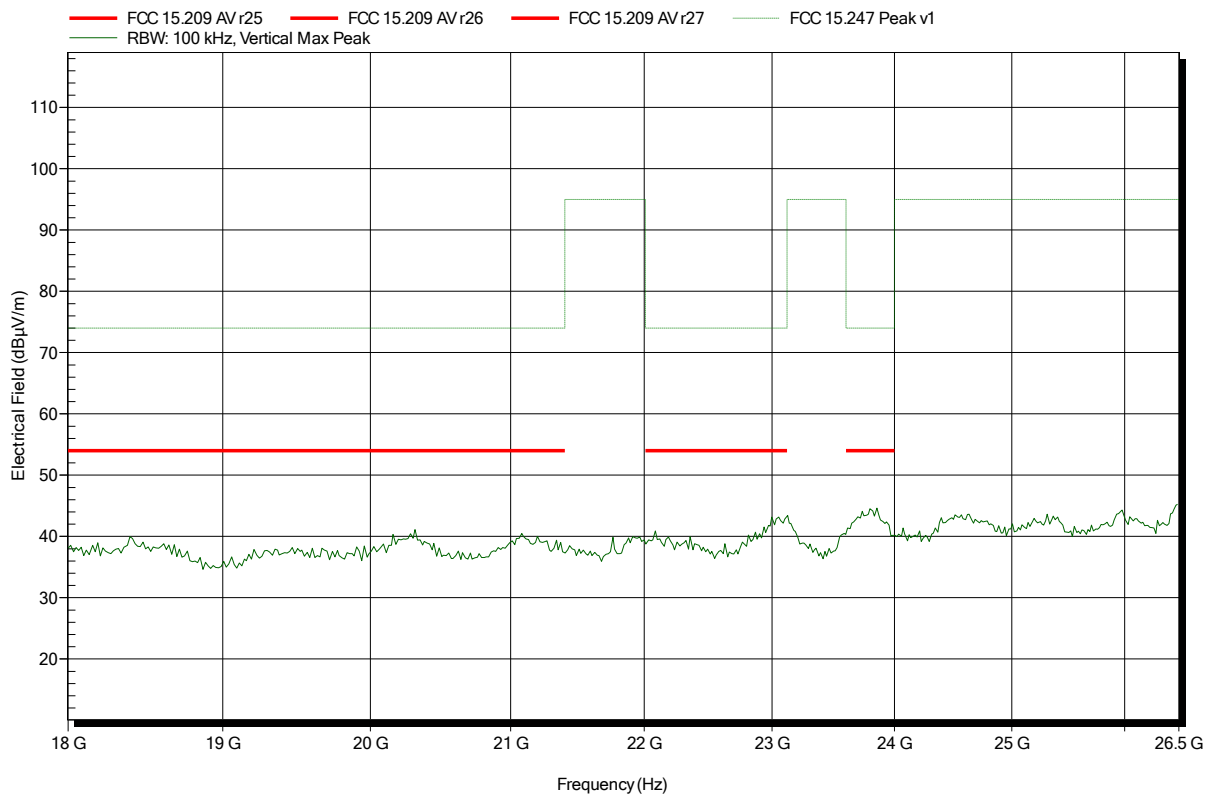


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-28
 Note: EUT horizontal; worst case

Index 148

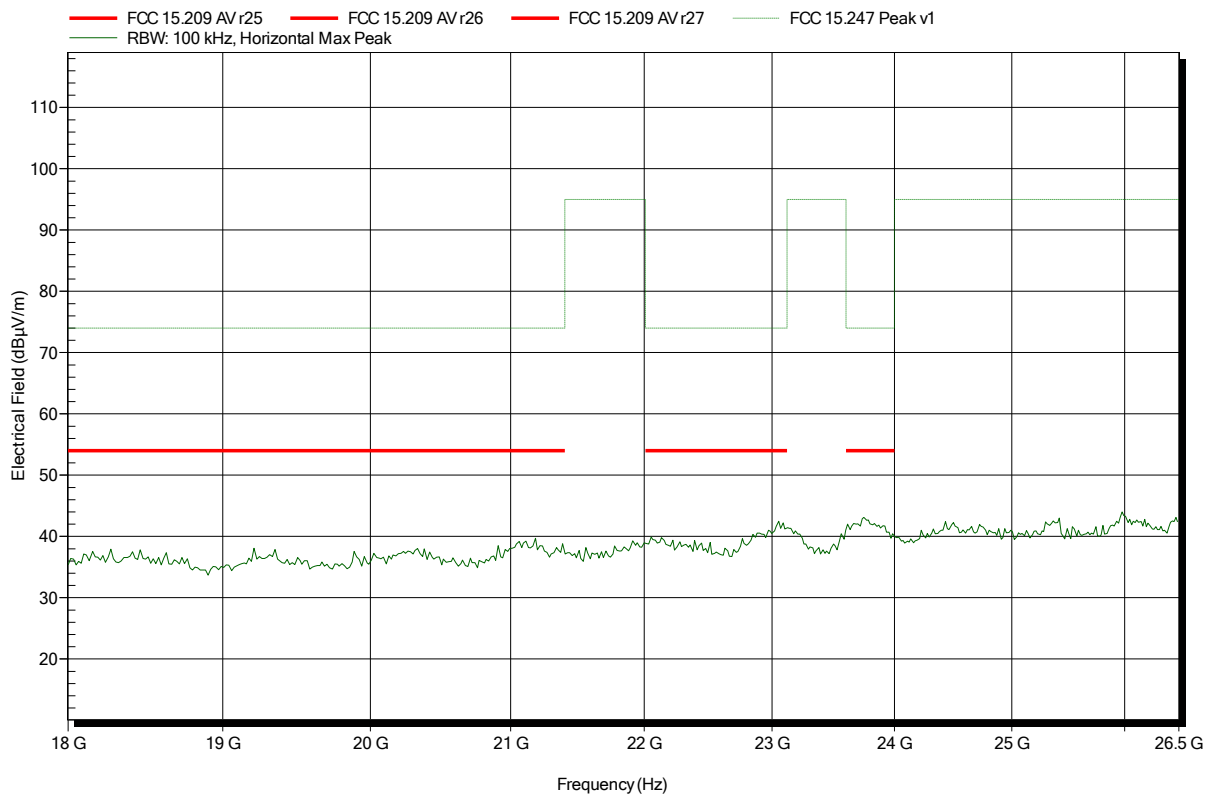


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-BR; CH: 78; 2480 MHz; DUT-Testmode; DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; worst case

Index 123

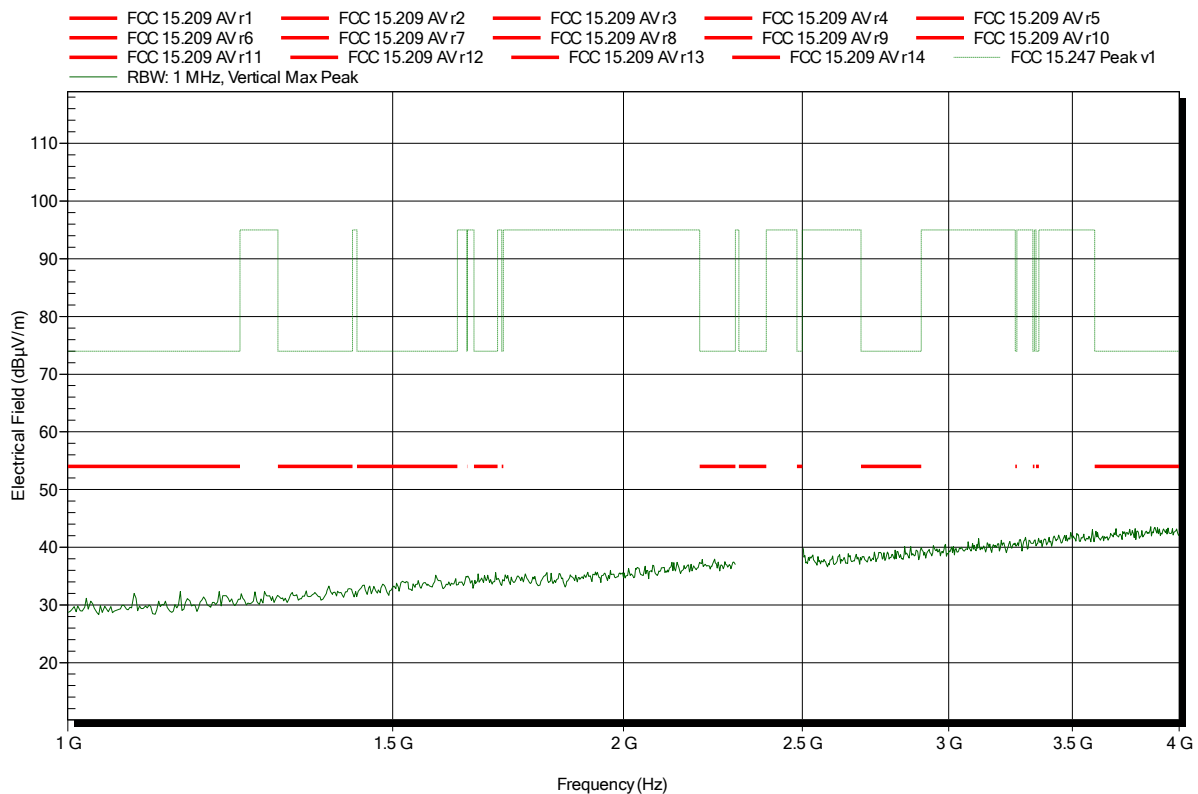


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-EDR; CH: 0; 2402 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 112

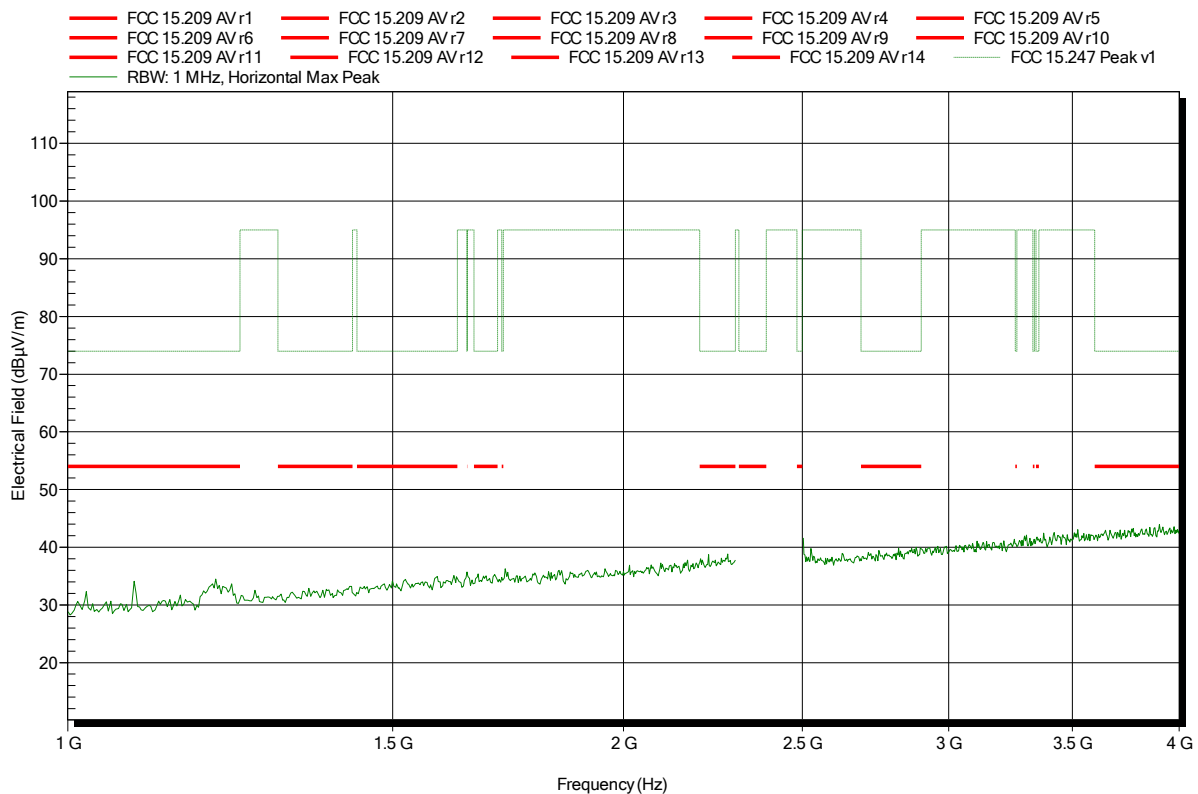


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: GOM-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT-EDR; CH: 0; 2402 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 127

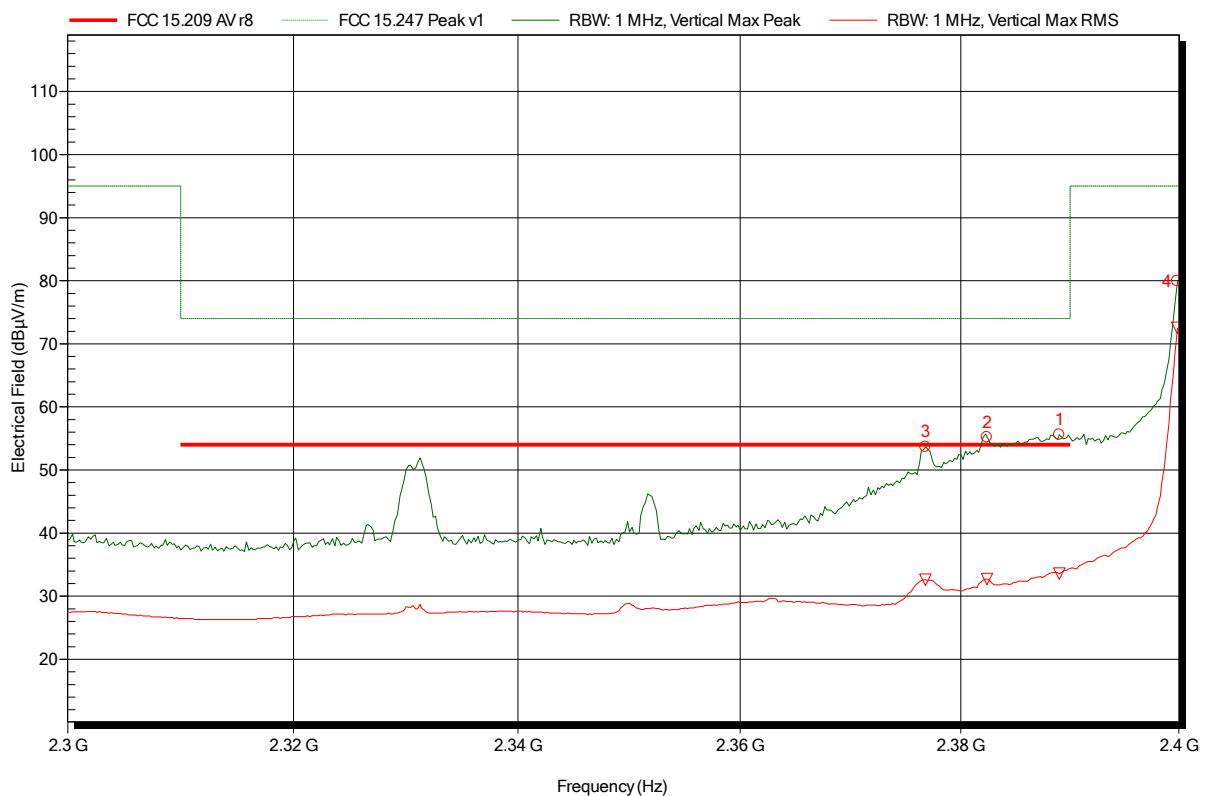


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 0; 2402 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; lower bandedge

Index 113



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.377 GHz	53.64 dBµV/m	74 dBµV/m	-20.36 dB	Pass
2.382 GHz	55.2 dBµV/m	74 dBµV/m	-18.8 dB	Pass
2.389 GHz	55.61 dBµV/m	74 dBµV/m	-18.39 dB	Pass
2.4 GHz	79.95 dBµV/m	95 dBµV/m	-15.05 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.377 GHz	32.62 dBµV/m	54 dBµV/m	-21.38 dB	Pass
2.382 GHz	32.71 dBµV/m	54 dBµV/m	-21.29 dB	Pass
2.389 GHz	33.58 dBµV/m	54 dBµV/m	-20.42 dB	Pass
2.4 GHz	72.53 dBµV/m			

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

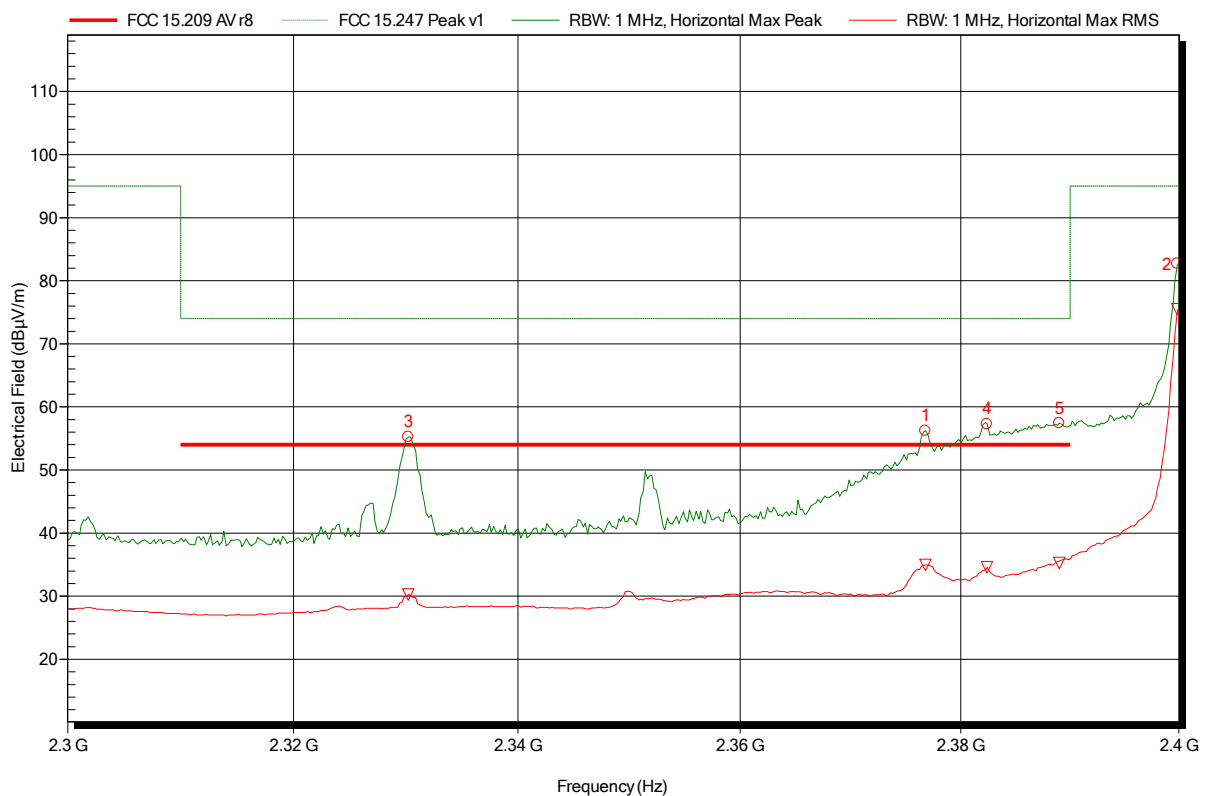
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 0; 2402 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; lower bandedge

Index 128



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.33 GHz	55.25 dBµV/m	74 dBµV/m	-18.75 dB	Pass
2.377 GHz	56.2 dBµV/m	74 dBµV/m	-17.8 dB	Pass
2.382 GHz	57.3 dBµV/m	74 dBµV/m	-16.7 dB	Pass
2.389 GHz	57.42 dBµV/m	74 dBµV/m	-16.58 dB	Pass
2.4 GHz	82.7 dBµV/m	95 dBµV/m	-12.3 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.33 GHz	30.28 dBµV/m	54 dBµV/m	-23.72 dB	Pass
2.377 GHz	34.97 dBµV/m	54 dBµV/m	-19.03 dB	Pass
2.382 GHz	34.58 dBµV/m	54 dBµV/m	-19.42 dB	Pass
2.389 GHz	35.23 dBµV/m	54 dBµV/m	-18.77 dB	Pass
2.4 GHz	75.46 dBµV/m			

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

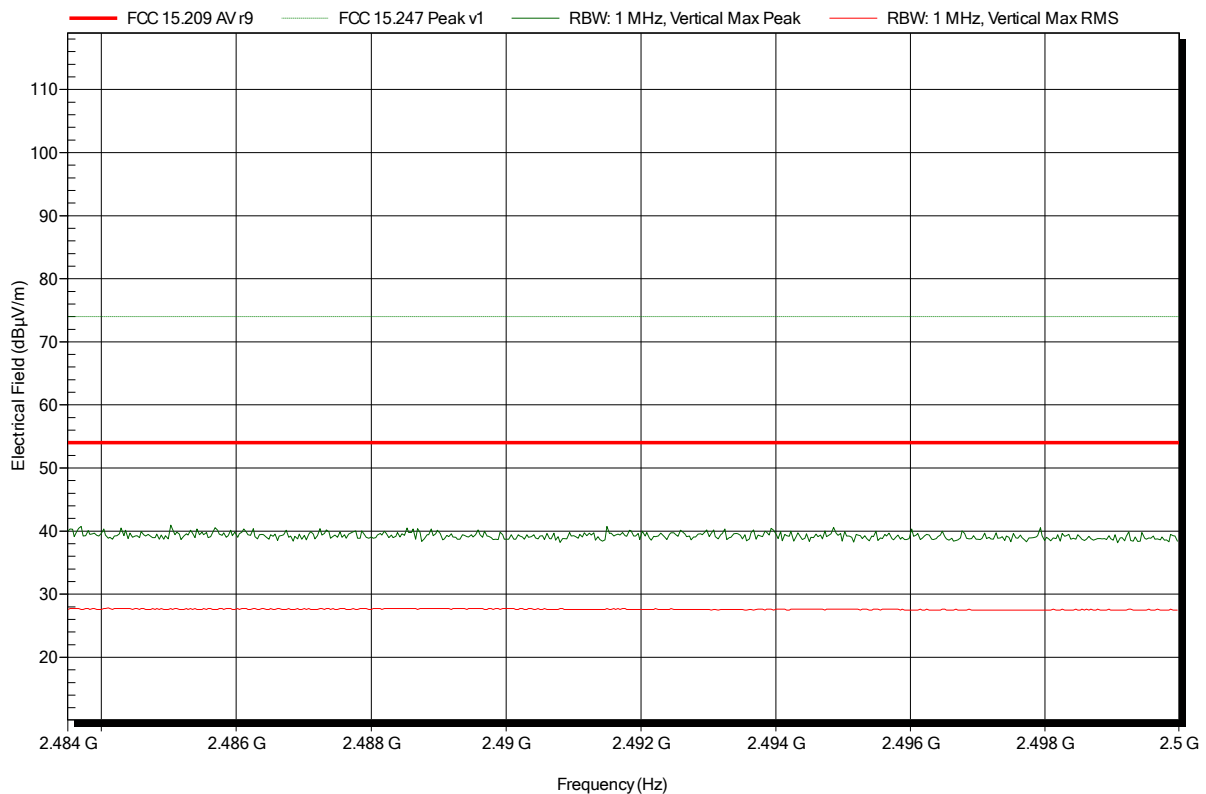
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 0; 2402 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; upper bandedge

Index 114

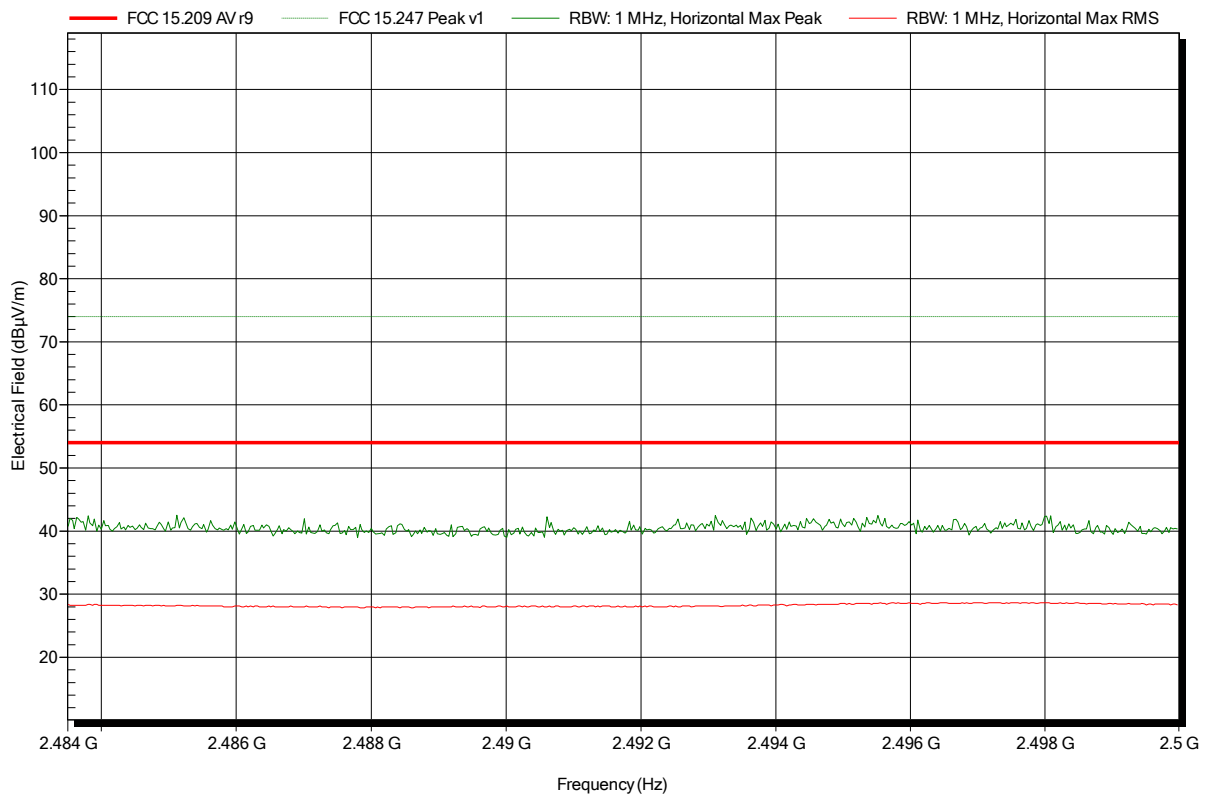


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 0; 2402 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; upper bandedge

Index 129

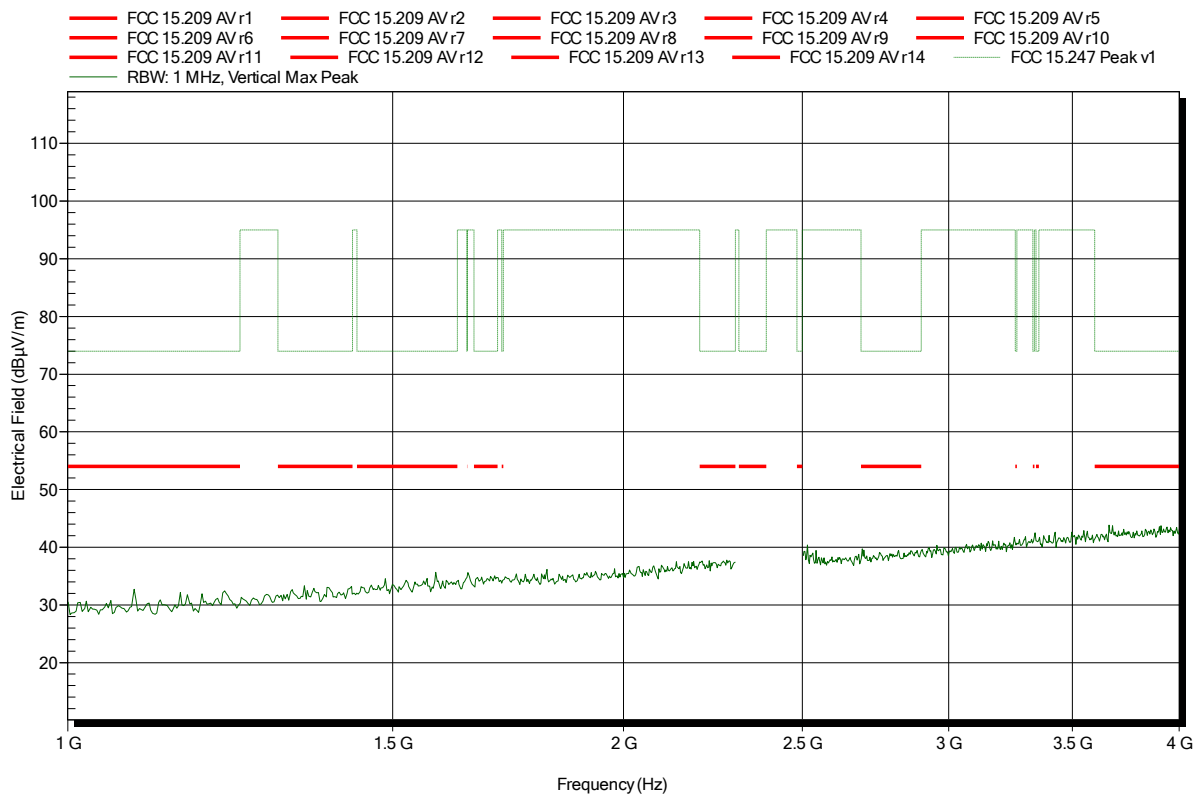


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: GOM-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-EDR; CH: 39; 2441 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 115

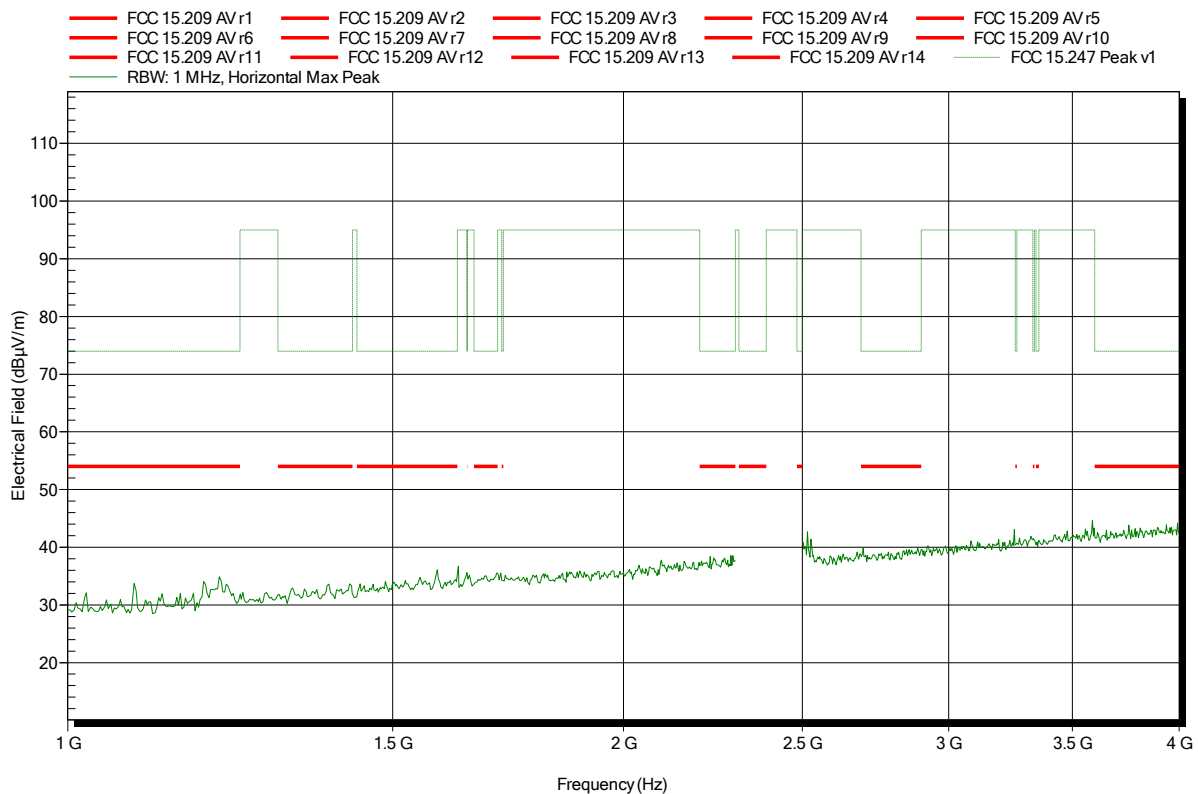


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT-EDR; CH: 39; 2441 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 124

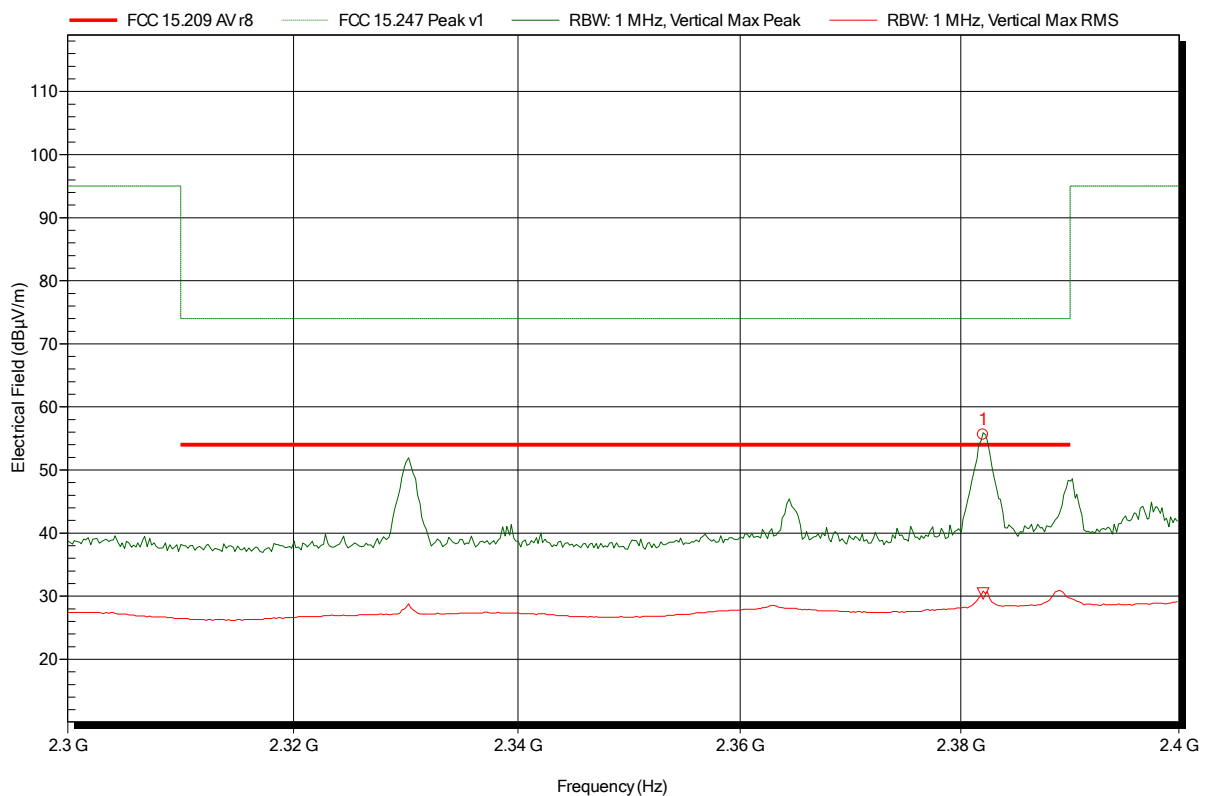


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 39; 2441 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; lower bandedge

Index 116



Frequency 2.382 GHz	Peak 55.59 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -18.41 dB	Peak Status Pass
Frequency 2.382 GHz	RMS 30.43 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -23.57 dB	RMS Status Pass

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

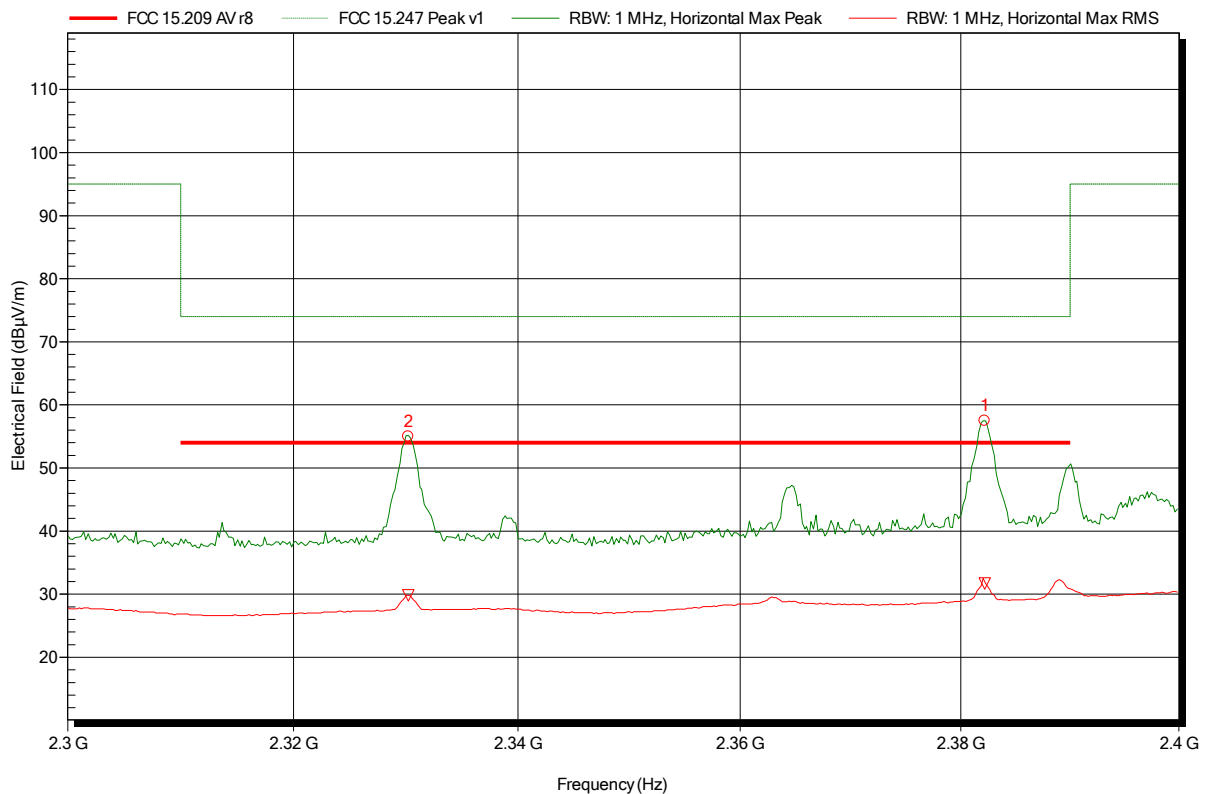
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 39; 2441 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; lower bandedge

Index 125



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.33 GHz	55 dBµV/m	74 dBµV/m	-19 dB	Pass
2.382 GHz	57.47 dBµV/m	74 dBµV/m	-16.53 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.33 GHz	29.79 dBµV/m	54 dBµV/m	-24.21 dB	Pass
2.382 GHz	31.69 dBµV/m	54 dBµV/m	-22.31 dB	Pass

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

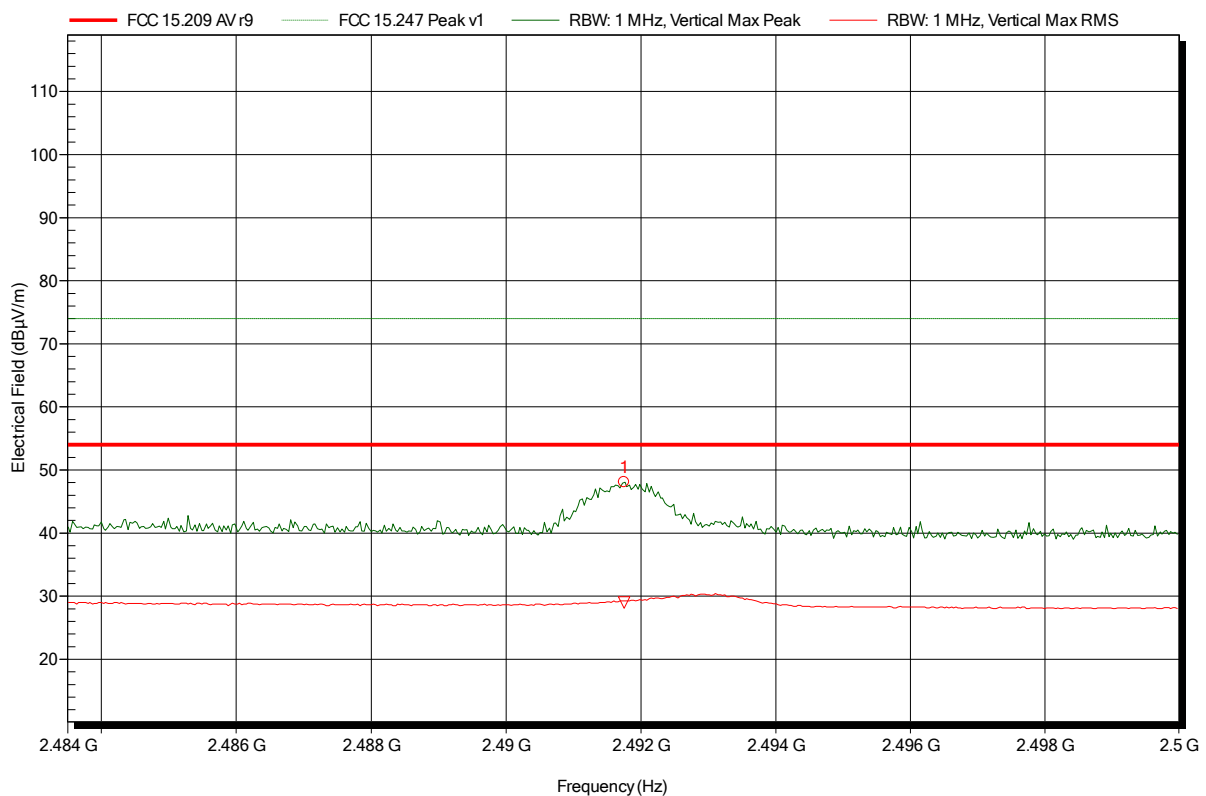
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 39; 2441 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; upper bandedge

Index 117



Frequency 2.4917 GHz	Peak 48.05 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -25.95 dB	Peak Status Pass
Frequency 2.4917 GHz	RMS 29.01 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -24.99 dB	RMS Status Pass

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

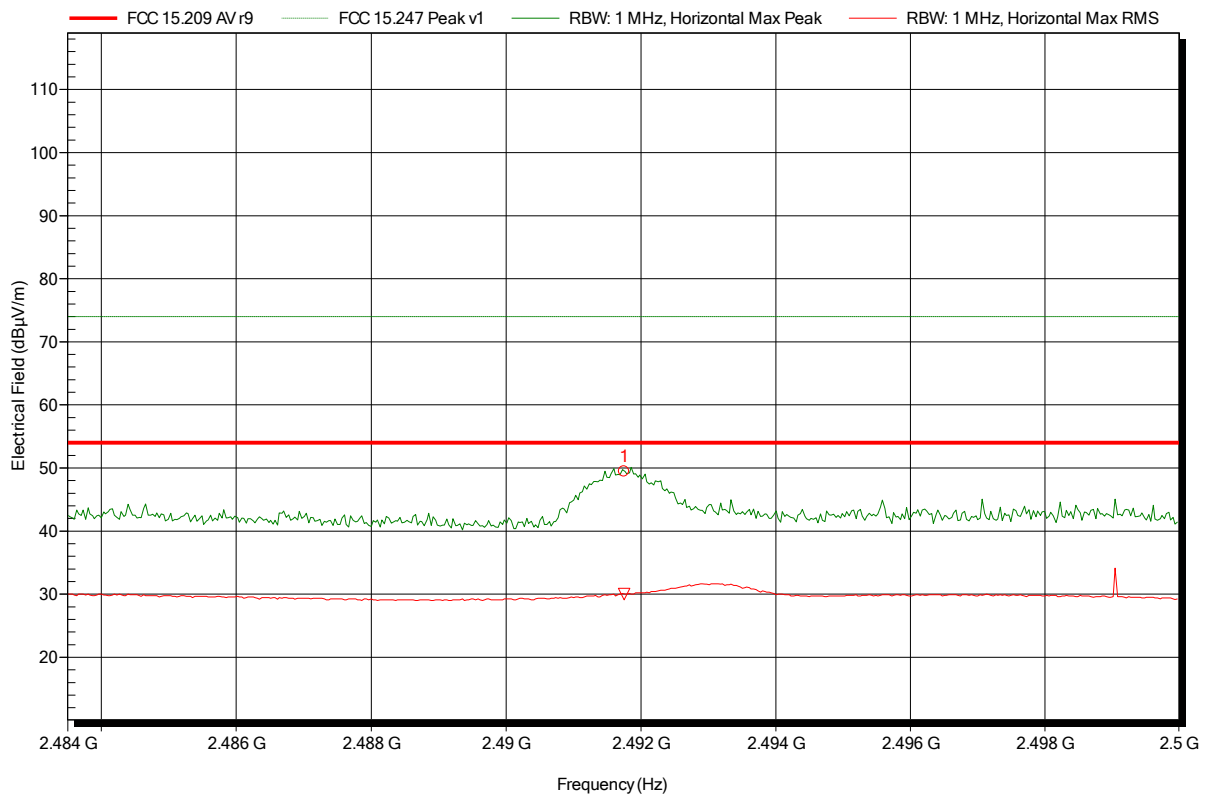
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 39; 2441 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; upper bandedge

Index 126



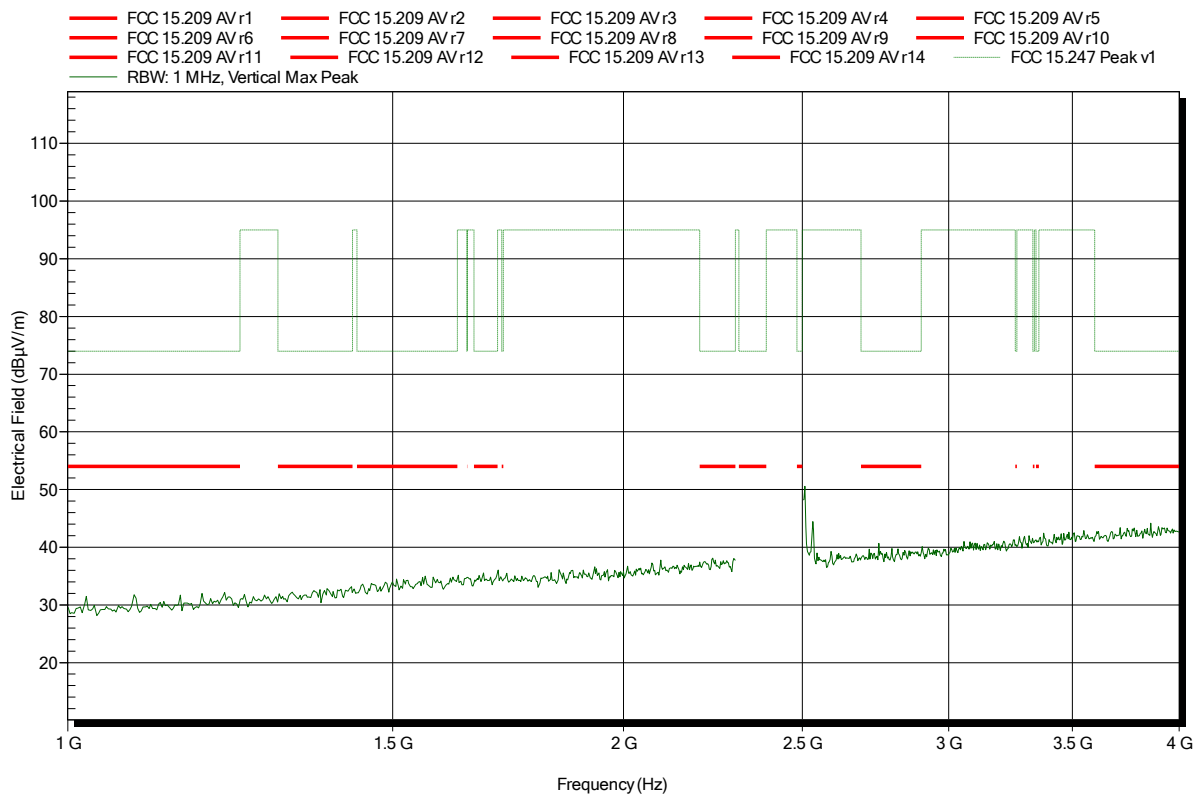
Frequency 2.4917 GHz	Peak 49.42 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -24.58 dB	Peak Status Pass
Frequency 2.4917 GHz	RMS 30.02 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -23.98 dB	RMS Status Pass

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

Project number: GOM-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; BT-EDR; CH: 78; 2480 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 118

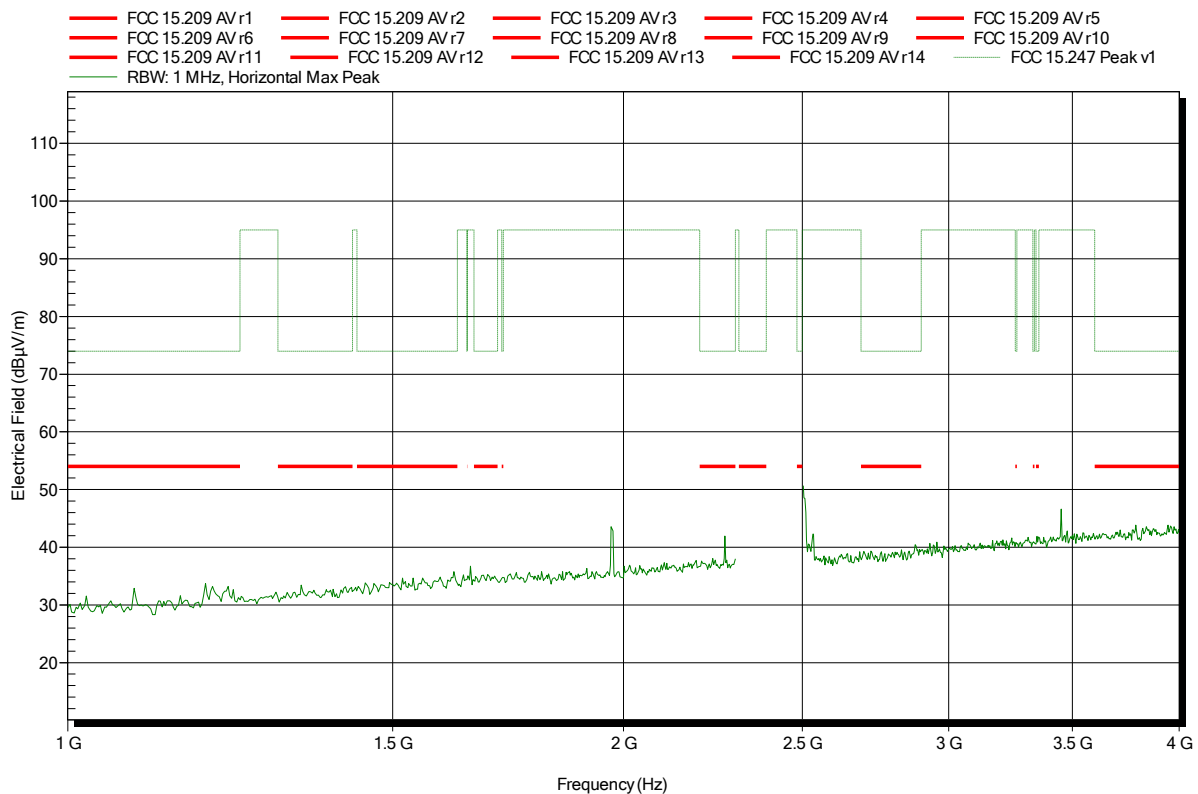


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: GOM-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; BT-EDR; CH: 78; 2480 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 121

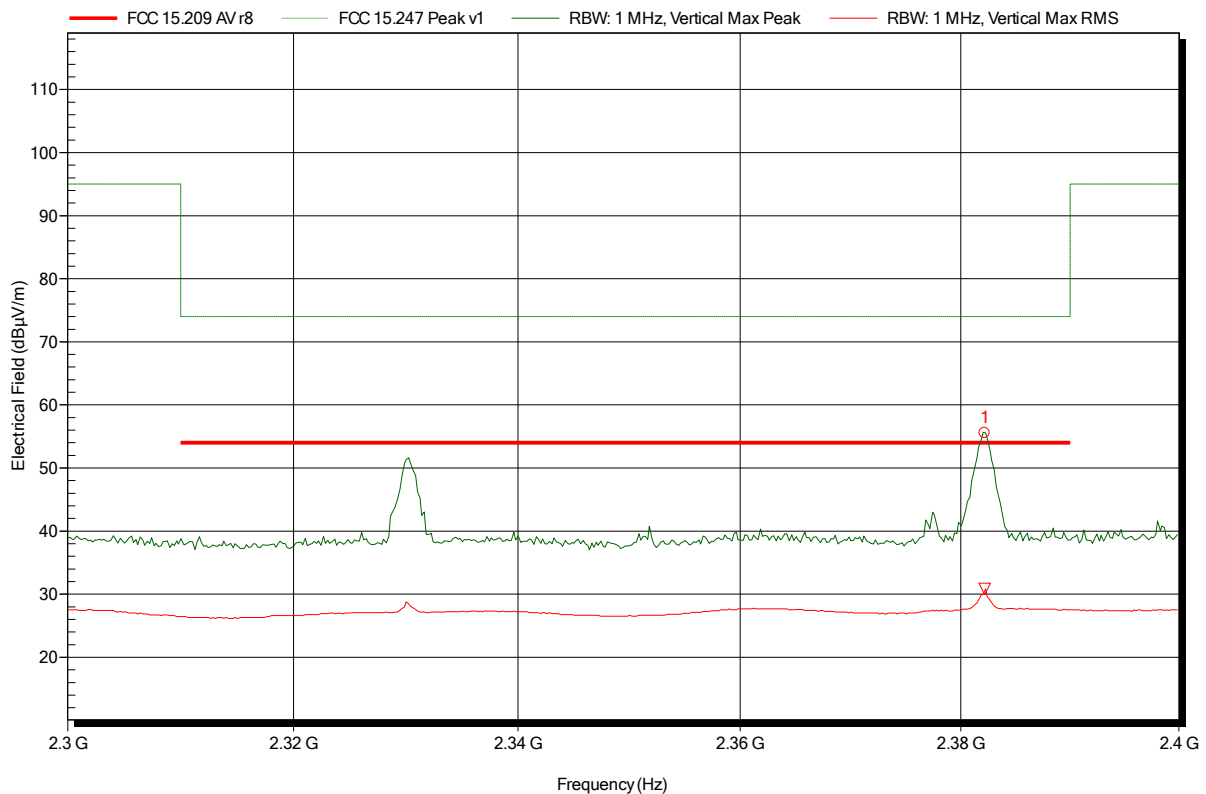


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 78; 2480 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; lower bandedge

Index 119



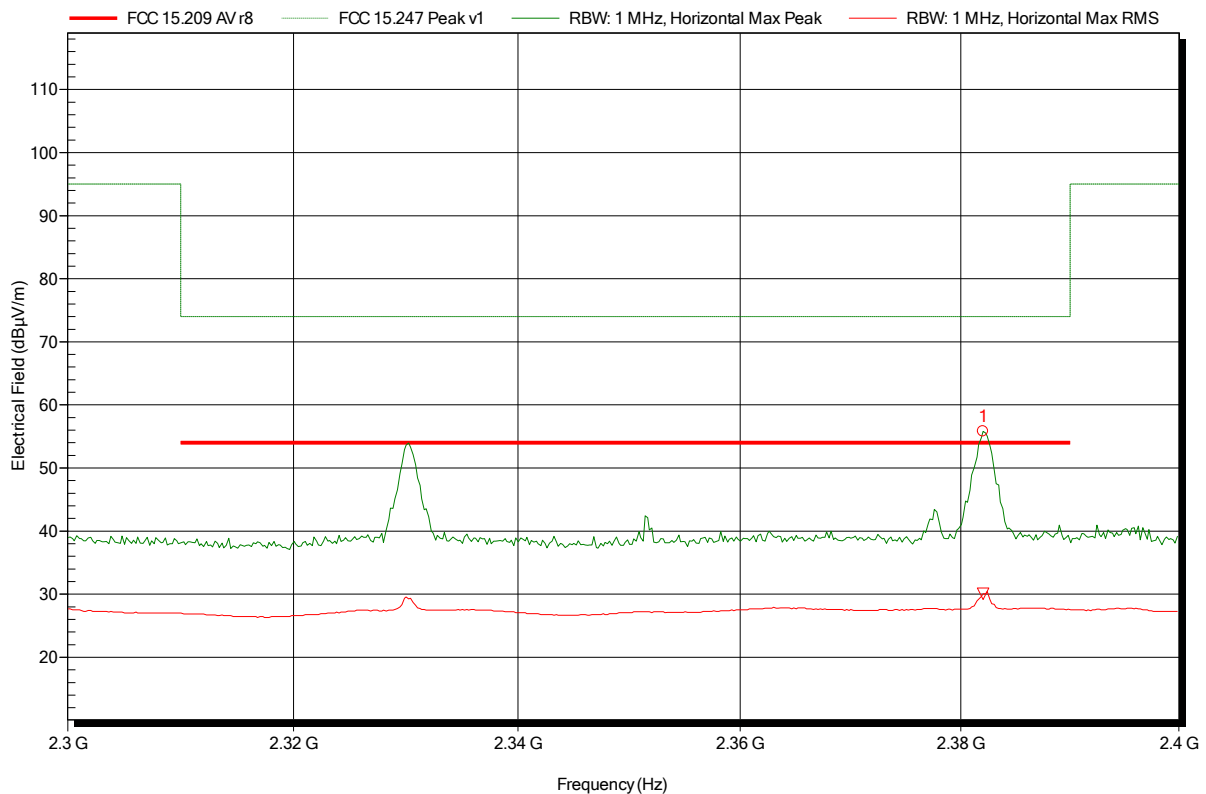
Frequency 2.382 GHz	Peak 55.53 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -18.47 dB	Peak Status Pass
Frequency 2.382 GHz	RMS 30.81 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -23.19 dB	RMS Status Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 78; 2480 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; lower bandedge

Index 122



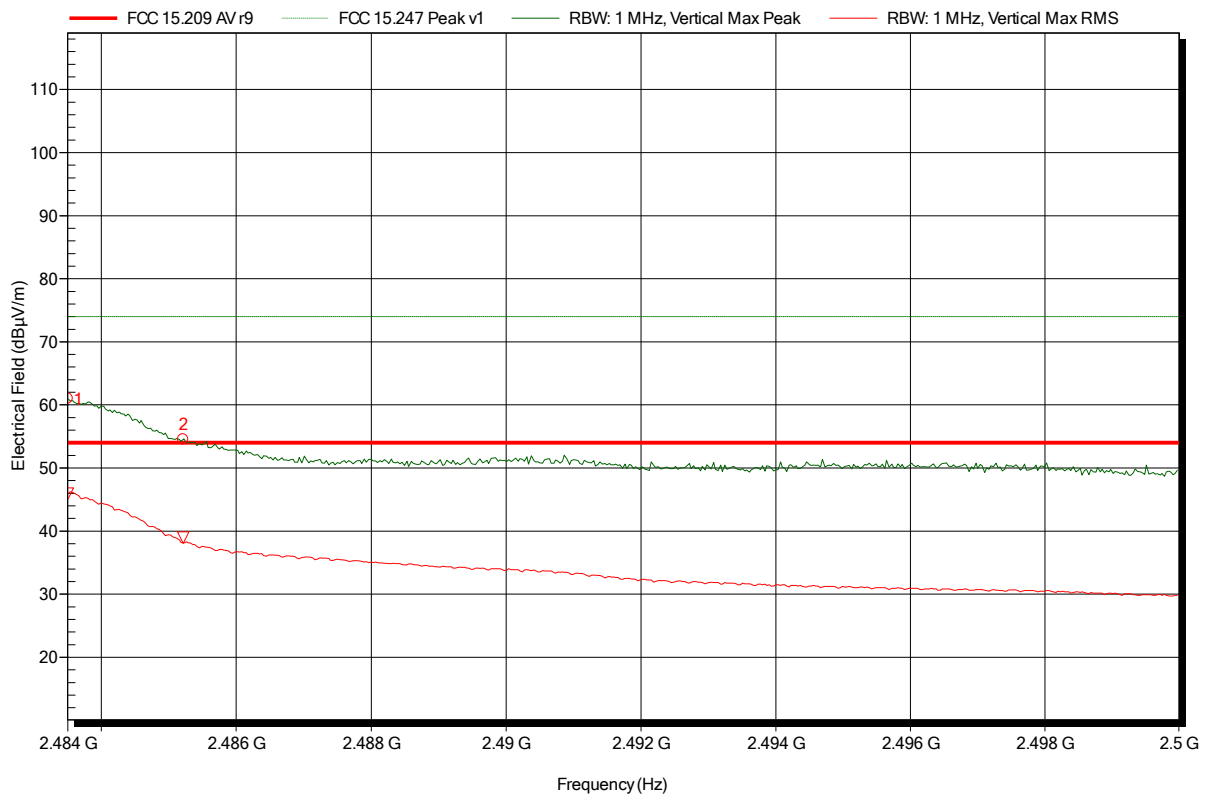
Frequency 2.382 GHz	Peak 55.78 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -18.22 dB	Peak Status Pass
Frequency 2.382 GHz	RMS 30.04 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -23.96 dB	RMS Status Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 78; 2480 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; upper bandedge

Index 120



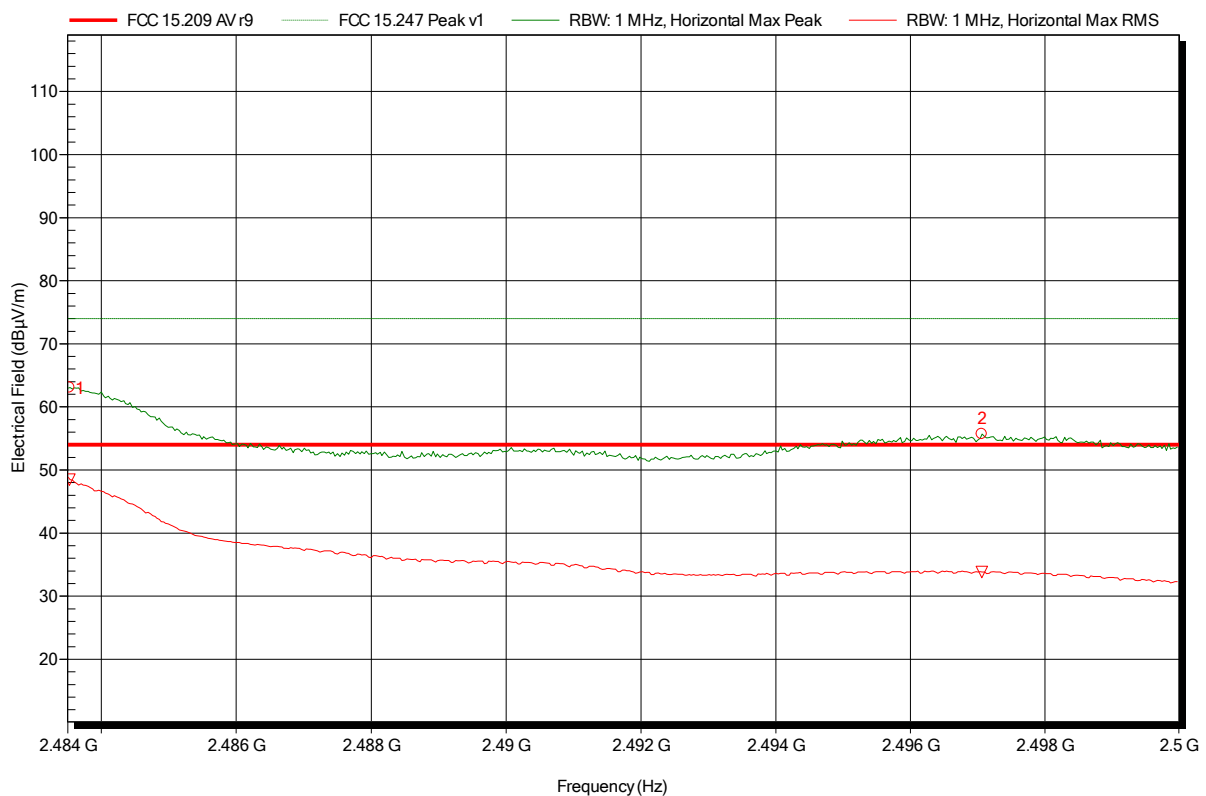
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4835 GHz	61.01 dBµV/m	74 dBµV/m	-12.99 dB	Pass
2.4852 GHz	54.54 dBµV/m	74 dBµV/m	-19.46 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4835 GHz	45.93 dBµV/m	54 dBµV/m	-8.07 dB	Pass
2.4852 GHz	38.95 dBµV/m	54 dBµV/m	-15.05 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m converted to 3m
 Mode: TX; BT-EDR; CH: 78; 2480 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal; upper bandedge

Index 123



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4835 GHz	63.05 dBμV/m	74 dBμV/m	-10.95 dB	Pass
2.4971 GHz	55.71 dBμV/m	74 dBμV/m	-18.29 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4835 GHz	48.45 dBμV/m	54 dBμV/m	-5.55 dB	Pass
2.4971 GHz	33.84 dBμV/m	54 dBμV/m	-20.16 dB	Pass

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

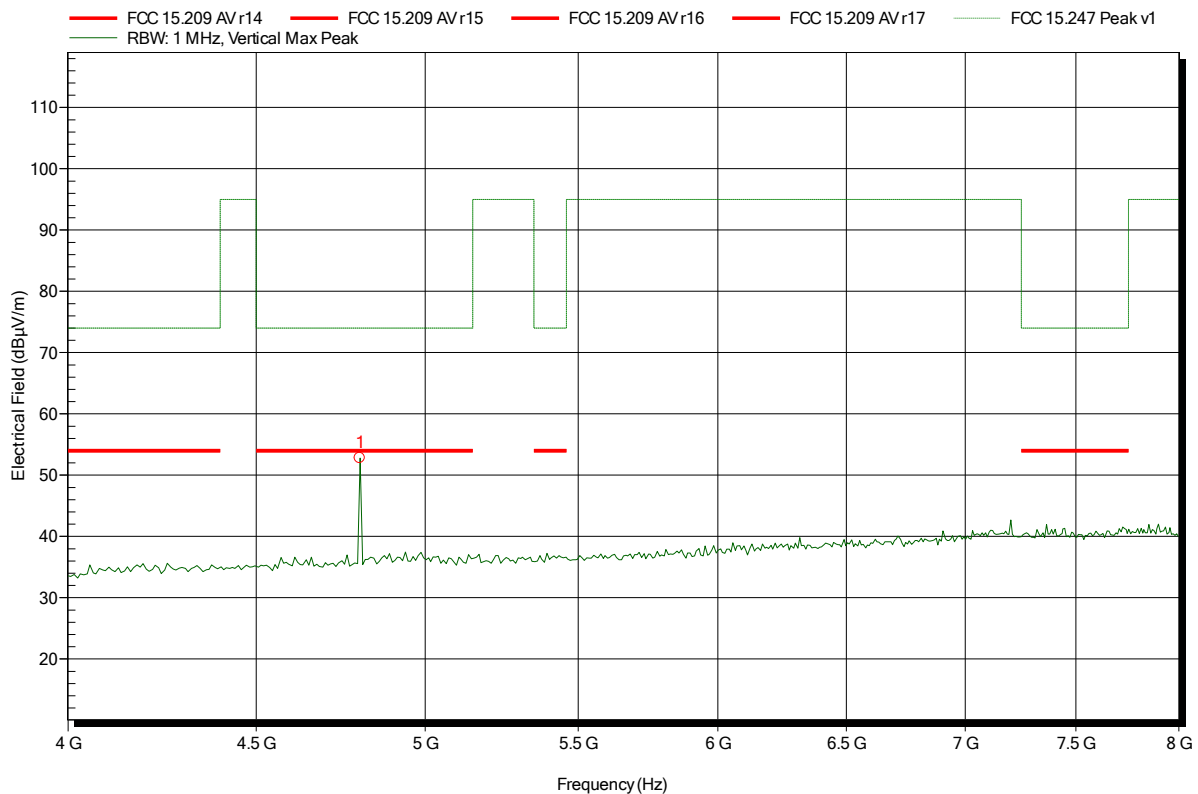
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-EDR; CH: 0; 2402 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 106



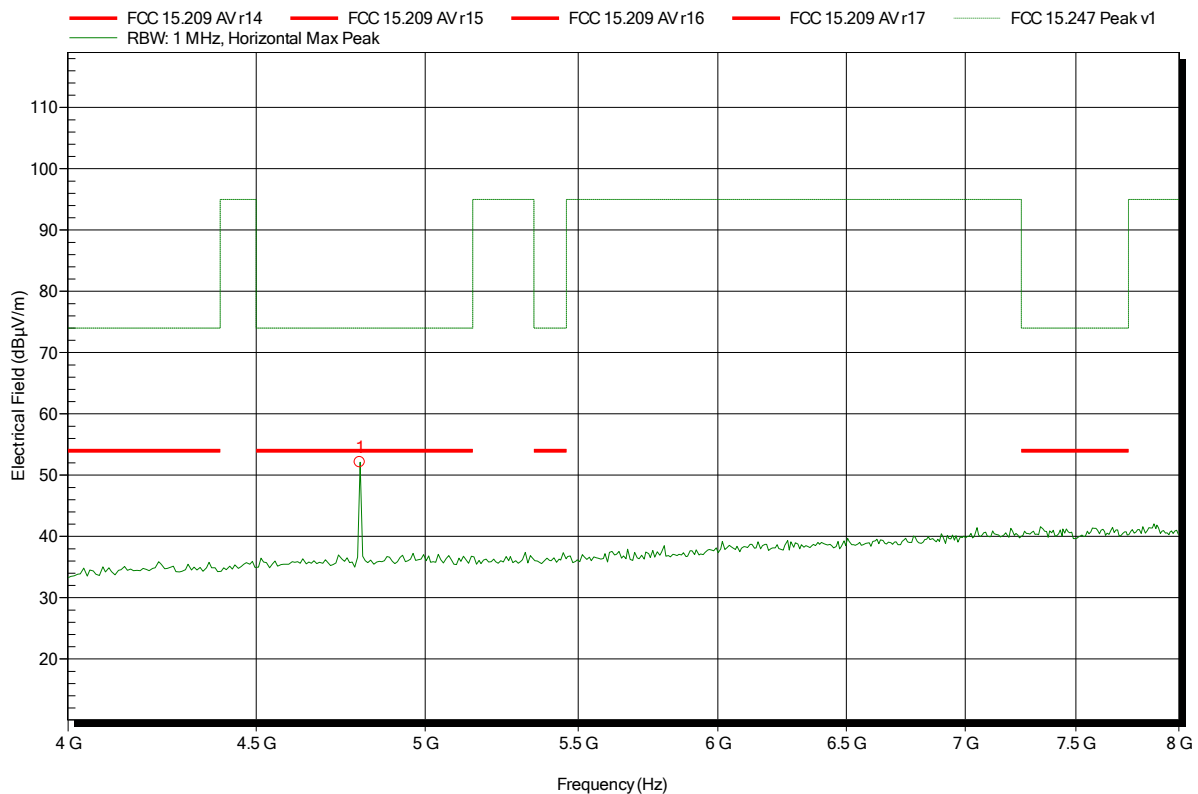
Frequency	Peak	Peak Limit	Peak Difference	Status
4.8 GHz	52.81 dBµV/m	74 dBµV/m	-21.19 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-EDR; CH: 0; 2402 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 111



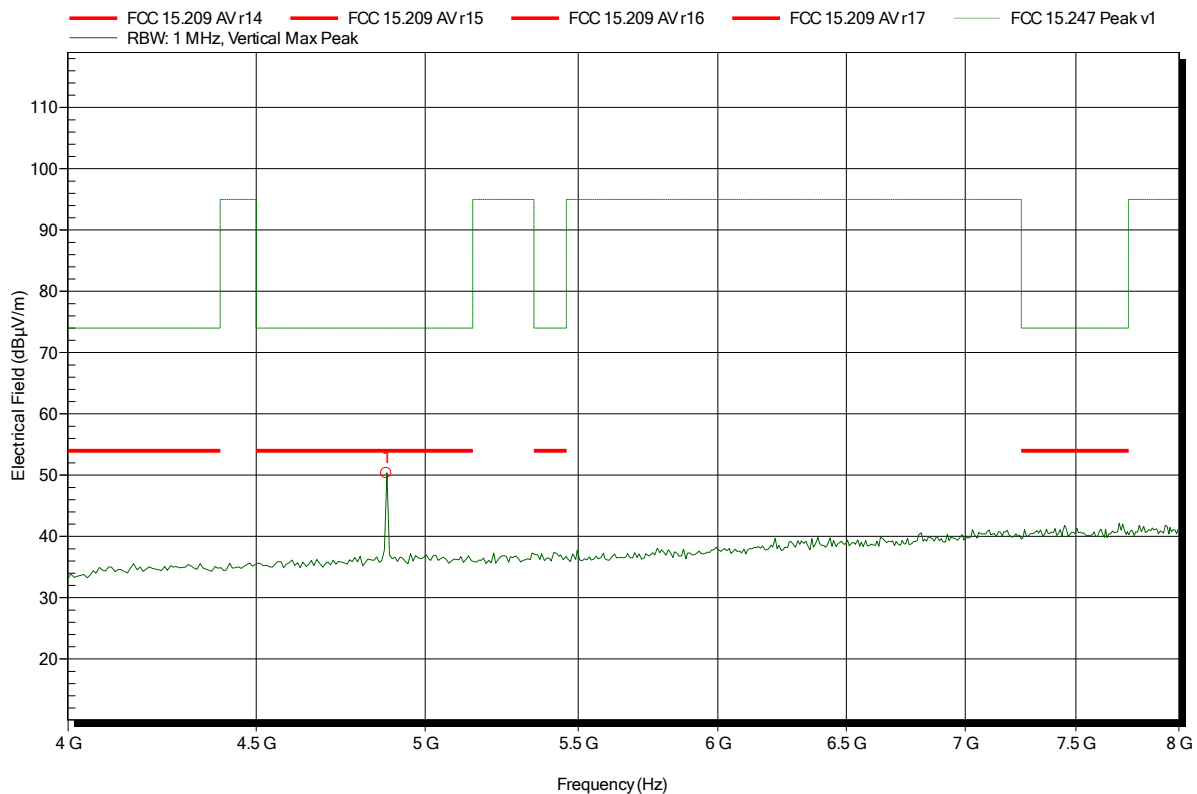
Frequency	Peak	Peak Limit	Peak Difference	Status
4.8 GHz	52.1 dBµV/m	74 dBµV/m	-21.9 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-EDR; CH: 39; 2441 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 107



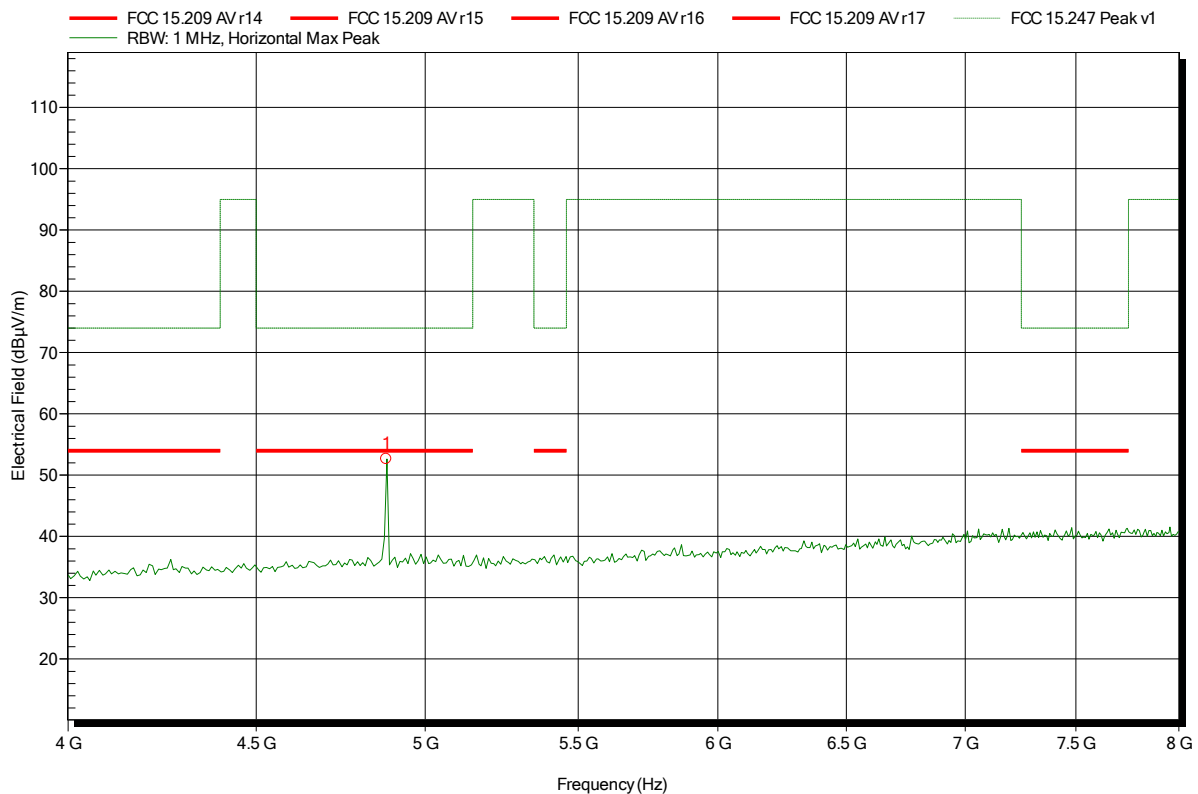
Frequency	Peak	Peak Limit	Peak Difference	Status
4.88 GHz	50.35 dBµV/m	74 dBµV/m	-23.65 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-EDR; CH: 39; 2441 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 110



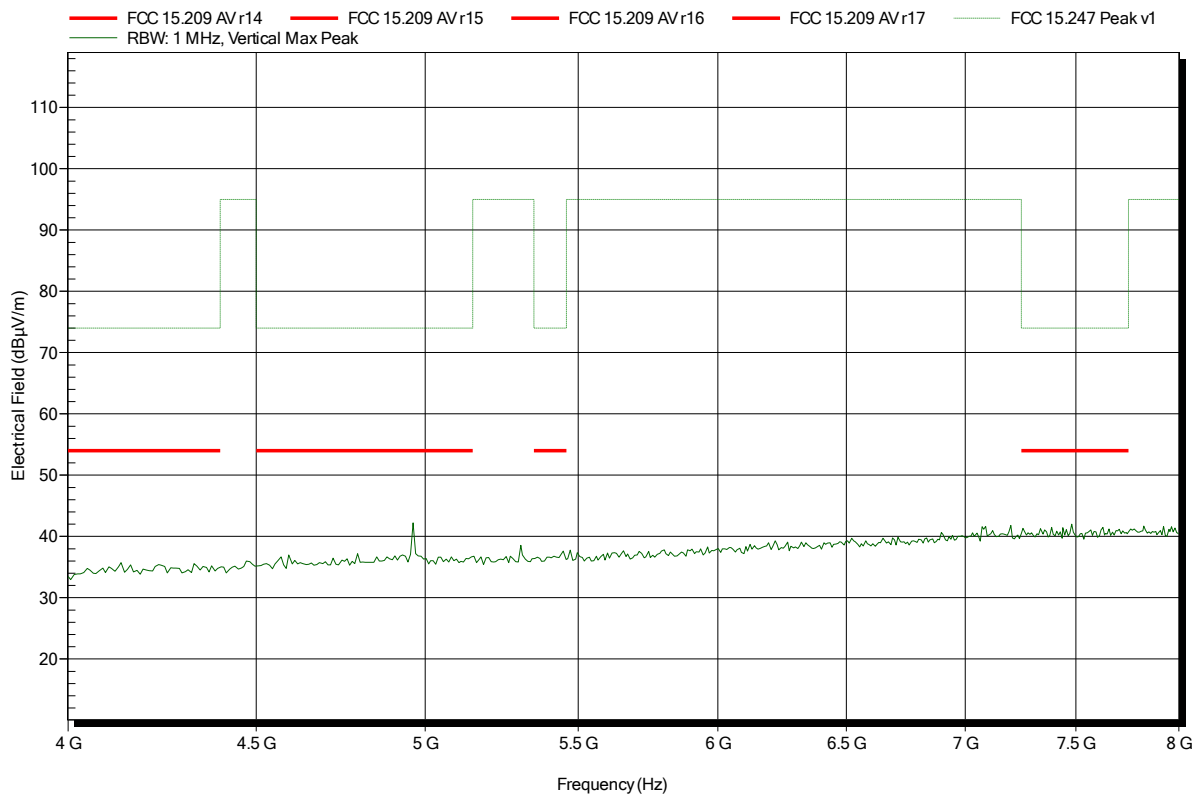
Frequency	Peak	Peak Limit	Peak Difference	Status
4.88 GHz	52.62 dBµV/m	74 dBµV/m	-21.38 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-EDR; CH: 78; 2480 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 108

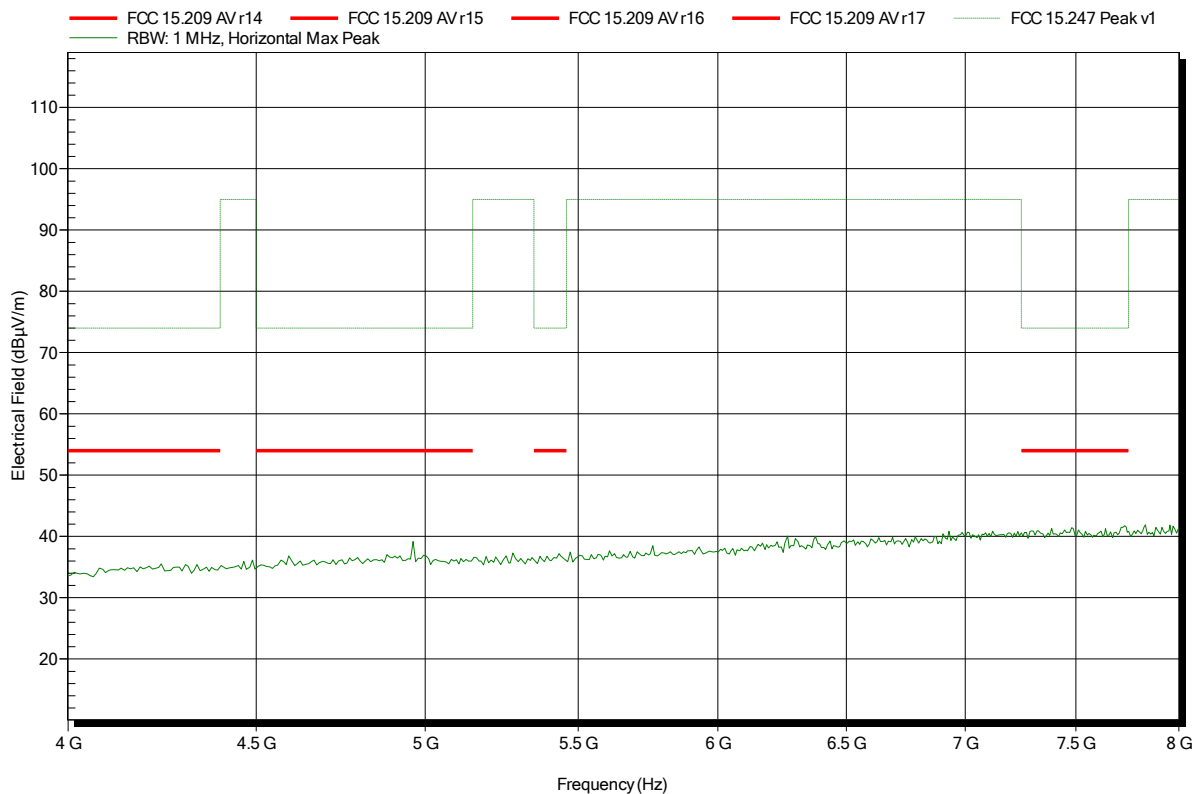


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BT-EDR; CH: 78; 2480 MHz; DUT-Testmode; 3-DH5
 Test Date: 2014-11-27
 Note: EUT horizontal

Index 109



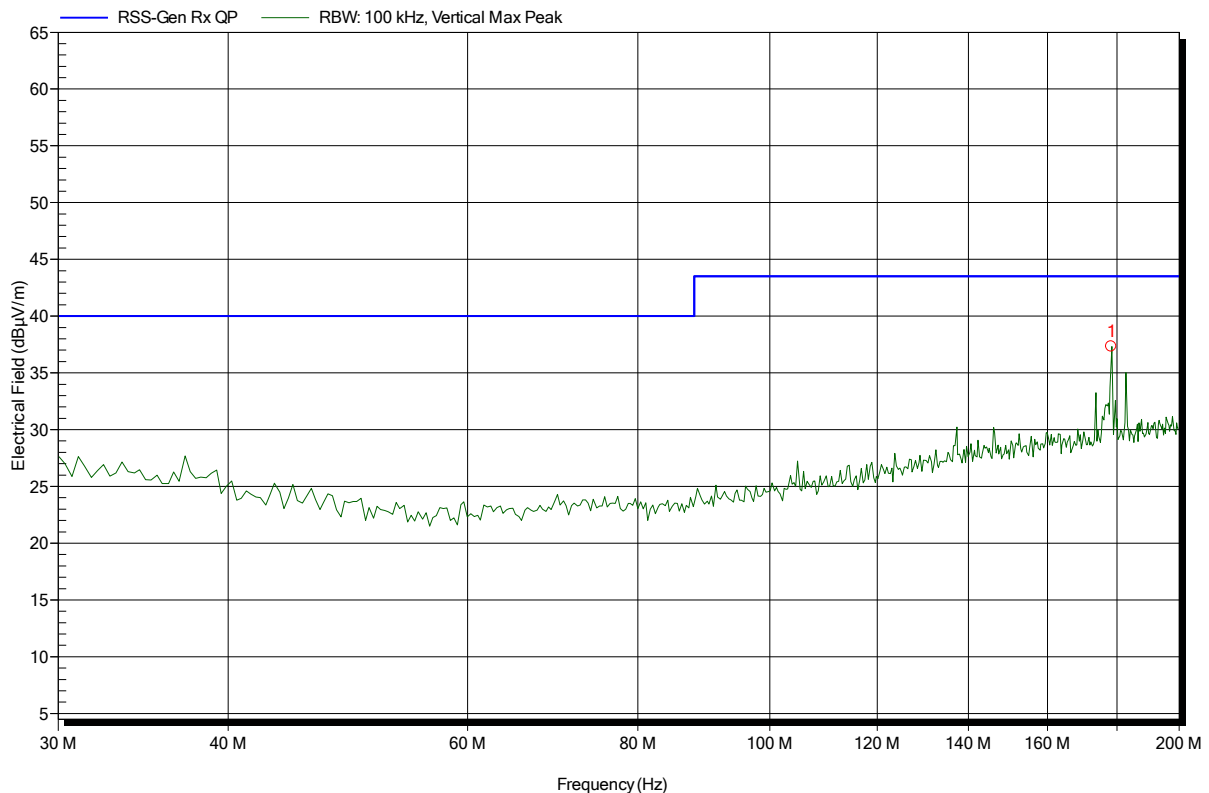
ANNEX B Receiver radiated spurious emissions

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: RX; LR-BT; Hopping RX -Scan-Mode
 Test Date: 2014-11-25
 Note: EUT vertical

Index 54



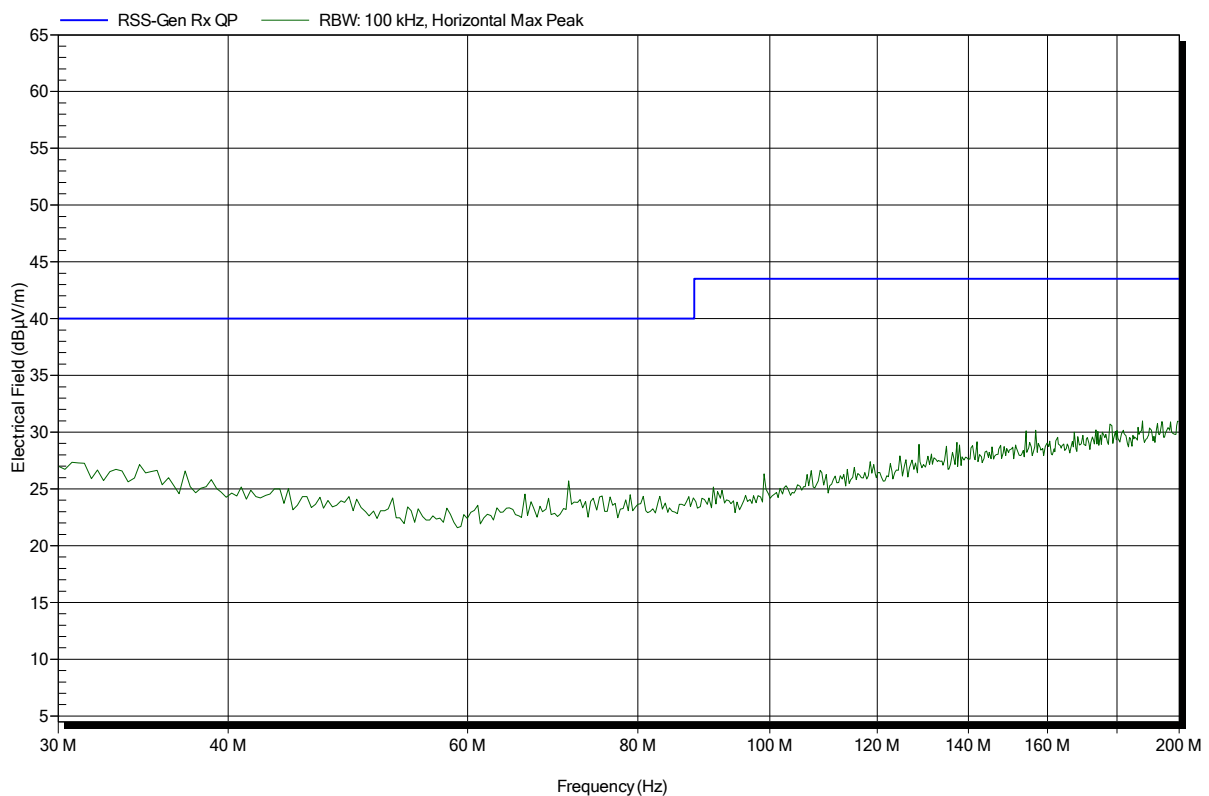
Frequency	Peak	Peak Limit	Peak Difference	Status
178.24 MHz	37.31 dBµV/m	43.5 dBµV/m	-6.19 dB	Pass

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: RX; LR-BT; Hopping RX -Scan-Mode
 Test Date: 2014-11-25
 Note: EUT vertical

Index 53

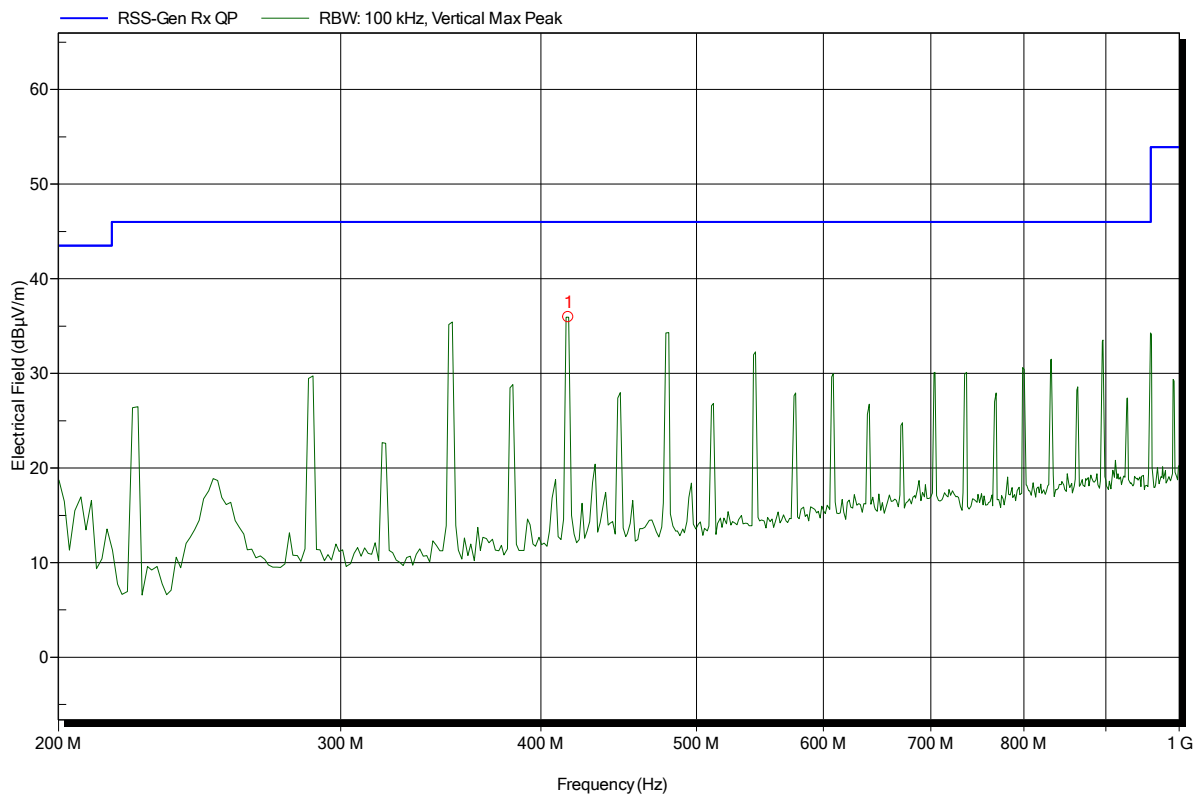


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: RX; LR-BT; Hopping RX -Scan-Mode
 Test Date: 2014-11-25
 Note: EUT vertical

Index 55



Frequency	Peak	Peak Limit	Peak Difference	Status
416 MHz	35.93 dBµV/m	46 dBµV/m	-10.07 dB	Pass

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

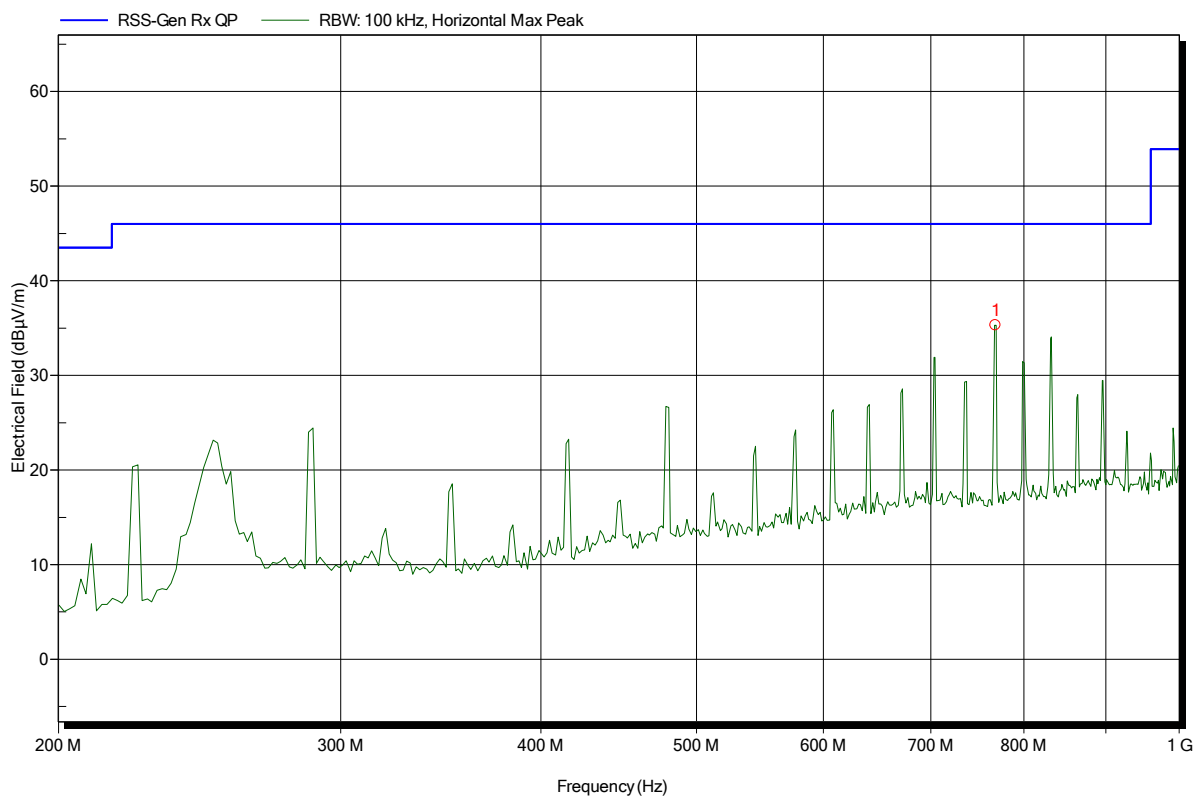
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: RX; LR-BT; Hopping RX -Scan-Mode
 Test Date: 2014-11-25
 Note: EUT vertical

Index 56



Frequency	Peak	Peak Limit	Peak Difference	Status
768 MHz	35.3 dBµV/m	46 dBµV/m	-10.7 dB	Pass

Test Report No.: G0M-1406-3917-TFC247BTLR-V01

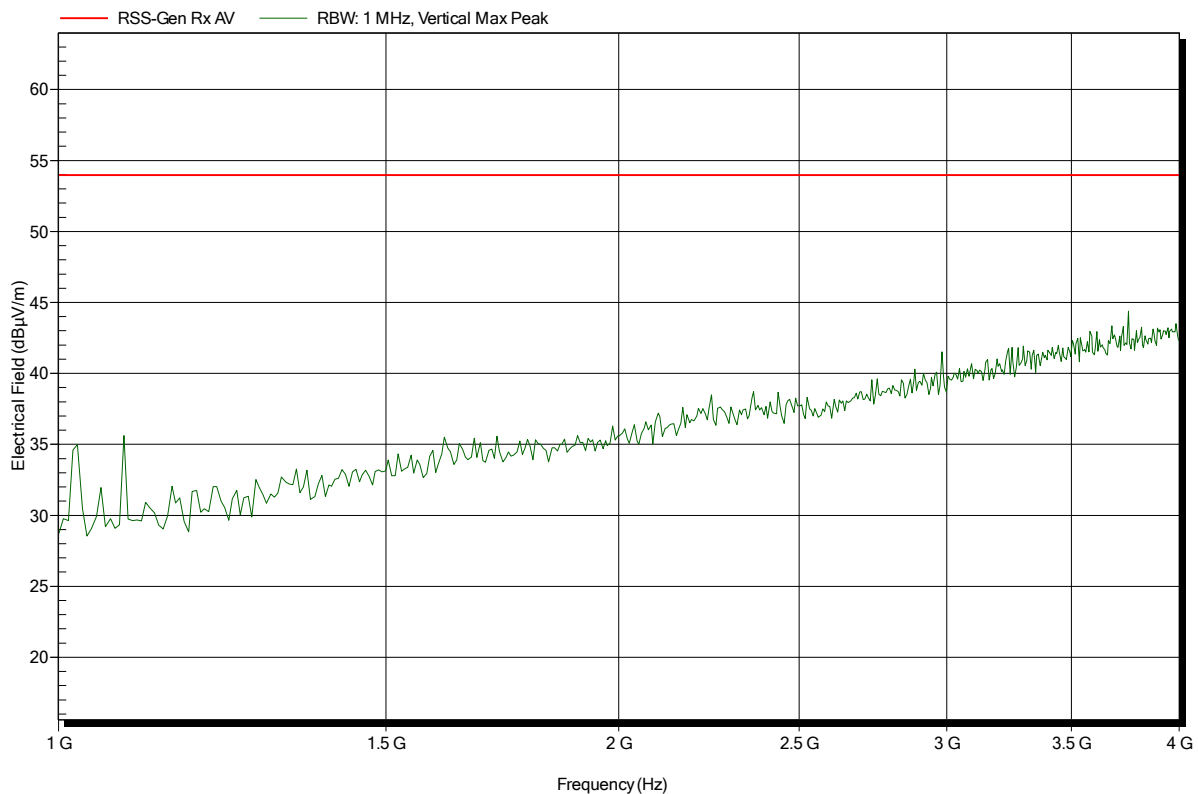
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: RX; LR-BT; Hopping RX -Scan-Mode
 Test Date: 2014-11-25
 Note: EUT vertical

Index 57

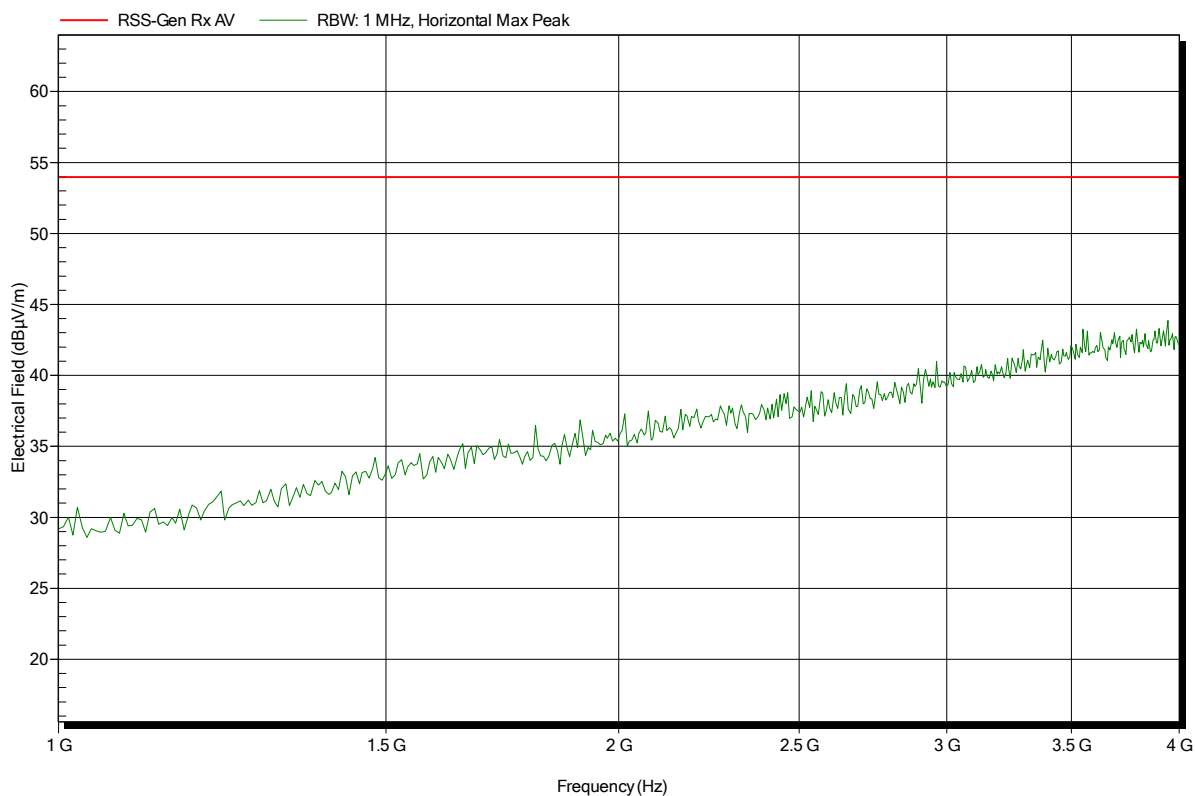


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 V DC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: RX; LR-BT; Hopping RX -Scan-Mode
 Test Date: 2014-11-25
 Note: EUT vertical

Index 59

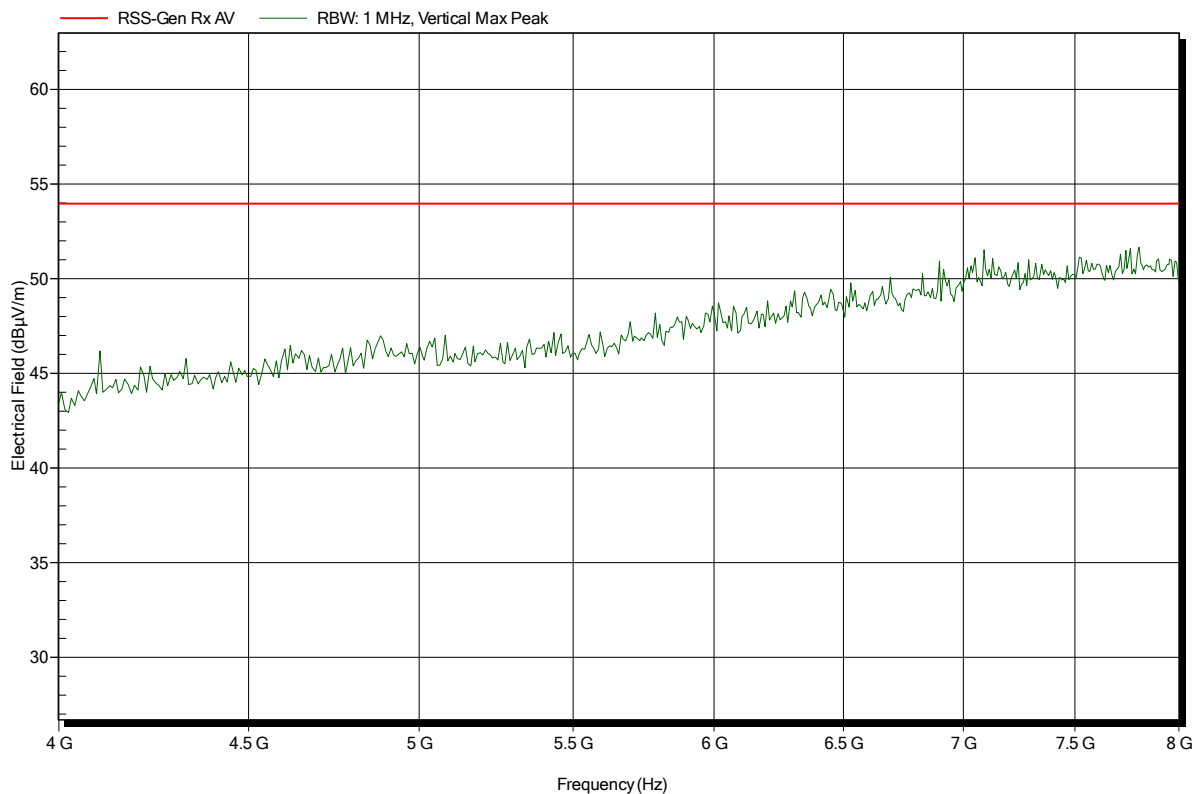


Spurious emissions according to FCC part 15 Subpart C § 15.247, IC RSS-210

Project number: G0M-1406-3917

Applicant:	Leica Geosystems AG
EUT Name:	Field Controller Win EC7
Model:	CS20
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 V DC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; LR-BT; Hopping RX -Scan-Mode
Test Date:	2014-11-25
Note:	EUT vertical

Index 58



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

Project number: G0M-1406-3917

Applicant:	Leica Geosystems AG
EUT Name:	Field Controller Win EC7
Model:	CS20
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 V DC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; LR-BT; Hopping RX -Scan-Mode
Test Date:	2014-11-25
Note:	EUT vertical

Index 60

