



FCC TEST REPORT FCC 47 CFR Part 22H Industry Canada RSS-132, Issue 3 Cellular Telephones Operating in the Bands 824-849MHz and 869-894MHz FCC 47 CFR Part 24E Industry Canada RSS-133, Issue 6 2GHz Personal Communication Services	
Report Reference No.	G0M-1406-3917-TFC224GS-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	<div style="display: flex; justify-content: center; align-items: center;">   </div> <p style="text-align: center; font-size: small;">A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A</p>
Applicant's name	Leica Geosystems AG
Address	Heinrich Wild Strasse 9435 Heerbrugg SWITZERLAND
Test specification:	Standard
	47 CFR Part 22H, 47 CFR Part 24E RSS-132, Issue 3 : 2013-01, RSS-133, Issue 6 : 2013-01 SRSP-503 Issue 7 : 2008-09, SRSP-510 Issue 5 : 2009-02 RSS-Gen, Issue 4, 2014-11, ANSI/TIA-603-C-2004
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
Test result	Passed

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 : 2014-08-04

Date (s) of performance of tests : 2014-08-04 - 2014-11-21

Compiled by : Matthias Handrik

Tested by (+ signature)..... : Christian Weber *C. Weber*
 (Responsible for Test)

Approved by (+ signature) : Toralf Jahn *T. Jahn*

Date of issue : 2015-04-22

Total number of pages : 182

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:

Test case selection is based on full modular approval of licensed transmitter module used by the EUT. The EUT uses a GSM/GPRS module with full modular approval according to FCC and IC rules. For details about the radio module see EUT description in section 1.

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

Version History

Version	Issue Date	Remarks	Revised by
01	2015-04-22	Initial Release	

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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		
Equipment type	End product		
Equipment classification	Portable Device (Human Body distance < 20 cm)		
Radio type	Transceiver		
Radio technology	GSM850 / GSM1900		
Operating frequency range	GSM850 : TX = 824 - 849 MHz, RX = 869 - 894 MHz GSM1900 : TX = 1850 - 1910 MHz, RX = 1930 - 1990 MHz		
Assigned frequency band	Cell. Service Block A & B : 824 - 849 MHz & 869 - 894 MHz Broadband PCS : 1850 - 1910 MHz & 1930 - 1990 MHz		
Main test frequencies GSM850	F _{LOW}	CH : 128 UL: 824.2 MHz	CH : 128 DL: 869.2 MHz
	F _{MID}	CH : 188 UL: 836.2 MHz	CH : 188 DL: 881.2 MHz
	F _{HIGH}	CH : 251 UL: 848.8 MHz	CH : 251 DL: 893.8 MHz
Main test frequencies GSM1900	F _{LOW}	CH : 512 UL: 1850.2 MHz	CH : 512 DL: 1930.2 MHz
	F _{MID}	CH : 661 UL: 1880.0 MHz	CH : 661 DL: 1960.0 MHz
	F _{HIGH}	CH : 810 UL: 1909.8 MHz	CH : 810 DL: 1989.8 MHz
Supported transmission modes	GSM, GPRS, E-GPRS		
Modulations	GSM, GPRS : GMSK		
Multislot class	12		
Number of antennas	1		
Radio module	Type	GSM module	
	Model	PHS8-P	
	Manufacturer	Gemalto	
	HW Version	B1	
	SW Version	03.001	
	FCC-ID	QIPPHS8-P	
	IC	7830A-PHS8P	
Antenna	Type	integrated	
	Model	P522303	
	Manufacturer	Ethertronics	
	Gain	2.8dBi	

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Manufacturer	Leica Geosystems AG Heinrich Wild Strasse 9435 Heerbrugg SWITZERLAND	
Power supply	V _{NOM}	11.1 VDC
	V _{MIN}	N/A
	V _{MIN}	N/A
AC/DC-Adaptor	Model	N/A
	Vendor	N/A
	Input	N/A
	Output	N/A

1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
SIM	Radio communication tester	R&S	CMU200	
SIM : Simulator (Not Subjected to Test)				

1.5 Test Modes

Mode #	Description	
GSM850	General conditions:	EUT powered by battery. Active data call to communication tester.
	Radio conditions:	Mode = GPRS Connection = Packet Data Modulation = GMSK Slot configuration = 1 up Power level = Maximum (Gamma 3)
GSM850	General conditions:	EUT powered by battery. Active data call to communication tester.
	Radio conditions:	Mode = E-GPRS Connection = Packet Data Modulation = GMSK Slot configuration = 1 up Power level = Maximum (Gamma 6)
GSM1900	General conditions:	EUT powered by battery. Active data call to communication tester
	Radio conditions:	Mode = GPRS Connection = Packet Data Modulation = GMSK Slot configuration = 1 up Power level = Maximum (Gamma 3)
GSM1900	General conditions:	EUT powered by battery. Active data call to communication tester
	Radio conditions:	Mode = E-GPRS Connection = Packet Data Modulation = GMSK Slot configuration = 1 up Power level = Maximum (Gamma 5)

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	FSP 30	EF00312	2014-02	2015-02

Radiated power					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 1	EF00062	-	-
Spectrum Analyzer	R&S	FSIQ 26	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

Radiated spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 1	EF00062	-	-
Spectrum Analyzer	R&S	FSEK 30	EF00168	2014-01	2015-01
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00212	2013-02	2016-02
LPD Antenna	R&S	HL 025	EF00327	2013-02	2016-02

1.7 Sample emission level calculation

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

Reading:

This is the reading obtained on the spectrum analyzer in dB μ V. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

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

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

Net:

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

Limit:

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

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

Margin:

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

Example only:


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

2 Result Summary

FCC 47 CFR Part 22H, 24E, IC RSS-132, 133				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
FCC § 2.1049 RSS-Gen 6.6	Occupied Bandwidth	RSS-Gen 6.6		Informational only
FCC § 24.235 FCC § 22.355 IC RSS-132 § 4.3 IC RSS-133 § 6.3	Frequency stability	FCC § 24.235 FCC § 22.355 IC RSS-132 § 4.3 IC RSS-133 § 6.3	N/R	Conducted results of licensed radio unaffected. See module radio report.
FCC § 22.913(a)	Effective radiated power	ANSI/TIA-603-C	PASS	
FCC § 24.232(c) IC RSS-132 § 4.4 IC RSS-133 § 6.4	Equivalent isotropic radiated power	ANSI/TIA-603-C	PASS	
FCC § 24.232(d) IC RSS-133 § 6.4	Peak to average ratio	FCC § 24.232(d) IC RSS-133 § 6.4	N/R	Conducted results of licensed radio unaffected. See module radio report
FCC § 22.917(b) FCC § 24.238(b) IC RSS-132 § 4.5 IC RSS-133 § 6.5	Band-edge compliance	FCC § 22.917(b) FCC § 24.238(b) IC RSS-132 § 4.5 IC RSS-133 § 6.5	N/R	Conducted results of licensed radio unaffected. See module radio report
FCC § 22.917(a) FCC § 24.238(a) IC RSS-132 § 4.5 IC RSS-133 § 6.5	Conducted out-of-band emissions	FCC § 22.917(a) FCC § 24.238(a) IC RSS-132 § 4.5 IC RSS-133 § 6.5	N/R	Conducted results of licensed radio unaffected. See module radio report
FCC § 22.917(a) FCC § 24.238(a) IC RSS-132 § 4.5 IC RSS-133 § 6.5	Radiated out-of-band emissions	ANSI/TIA-603-C	PASS	
IC RSS-132 § 4.6 IC RSS-133 § 6.6 IC RSS-Gen 7.1	Receiver radiated spurious emissions	IC RSS-132 § 4.6 IC RSS-133 § 6.6 IC RSS-Gen 7.1	PASS	
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – Occupied Bandwidth

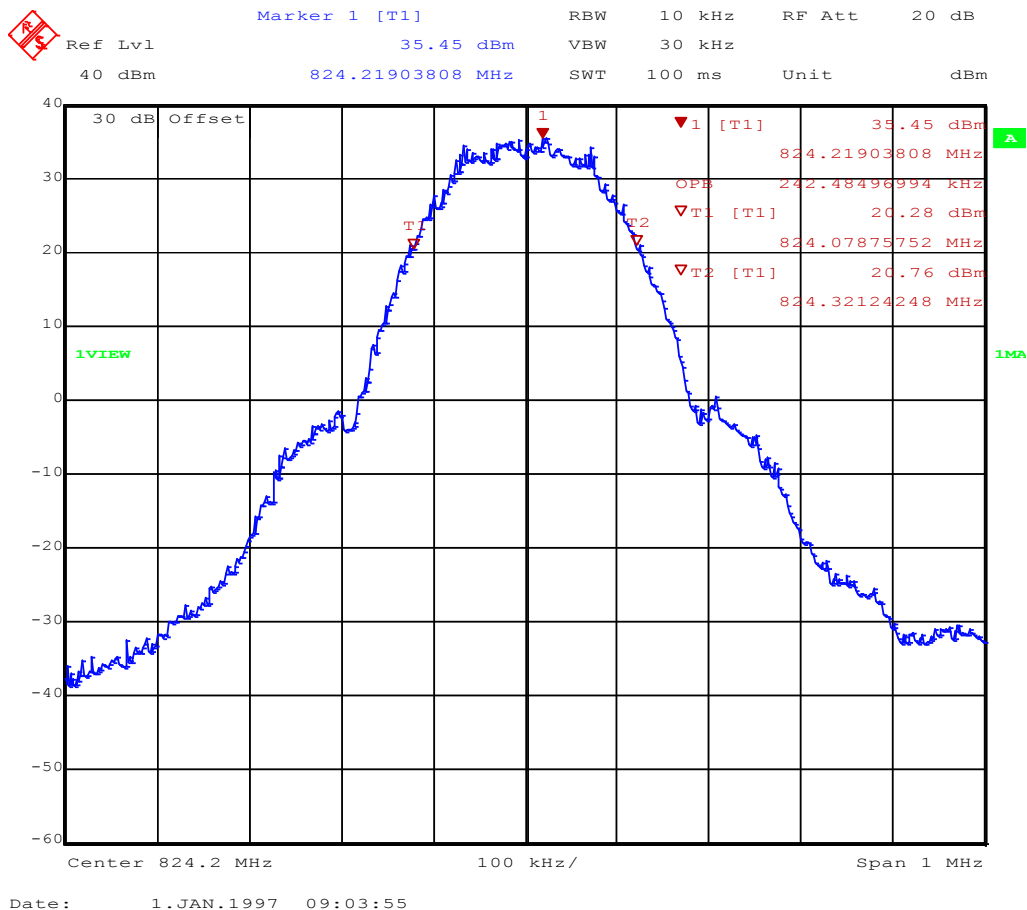
Occupied Bandwidth acc. to IC RSS-Gen			
Test according to measurement reference	Reference Method		
	RSS-Gen 6.6		
Test frequency range	Tested frequencies		
	$F_{LOW} / F_{MID} / F_{HIGH}$		
Limits			
None (Informational only)			
Test setup			
 <pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] </pre>			
Test procedure			
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Resolution bandwidth set to 1 % of span 4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function 			
Test results – GSM850			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
F_{LOW}	824.2	GSM850	242.485
F_{MID}	836.2	GSM850	242.485
F_{HIGH}	848.8	GSM850	242.485
F_{LOW}	824.2	EGPRS850	242.485
F_{MID}	836.2	EGPRS850	244.489
F_{HIGH}	848.8	EGPRS850	244.489

Test results – GSM1900			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
F _{LOW}	1850.2	GSM1900	244.489
F _{MID}	1880	GSM1900	244.489
F _{HIGH}	1909.8	GSM1900	244.489
F _{LOW}	1850.2	EGPRS1900	244.489
F _{MID}	1880	EGPRS1900	242.489
F _{HIGH}	1909.8	EGPRS1900	244.489
Comments:			

Occupied Bandwidth – GSM850 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: GPRS 850 / CH: 128 / Gamma:3 (33 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 242.485 kHz

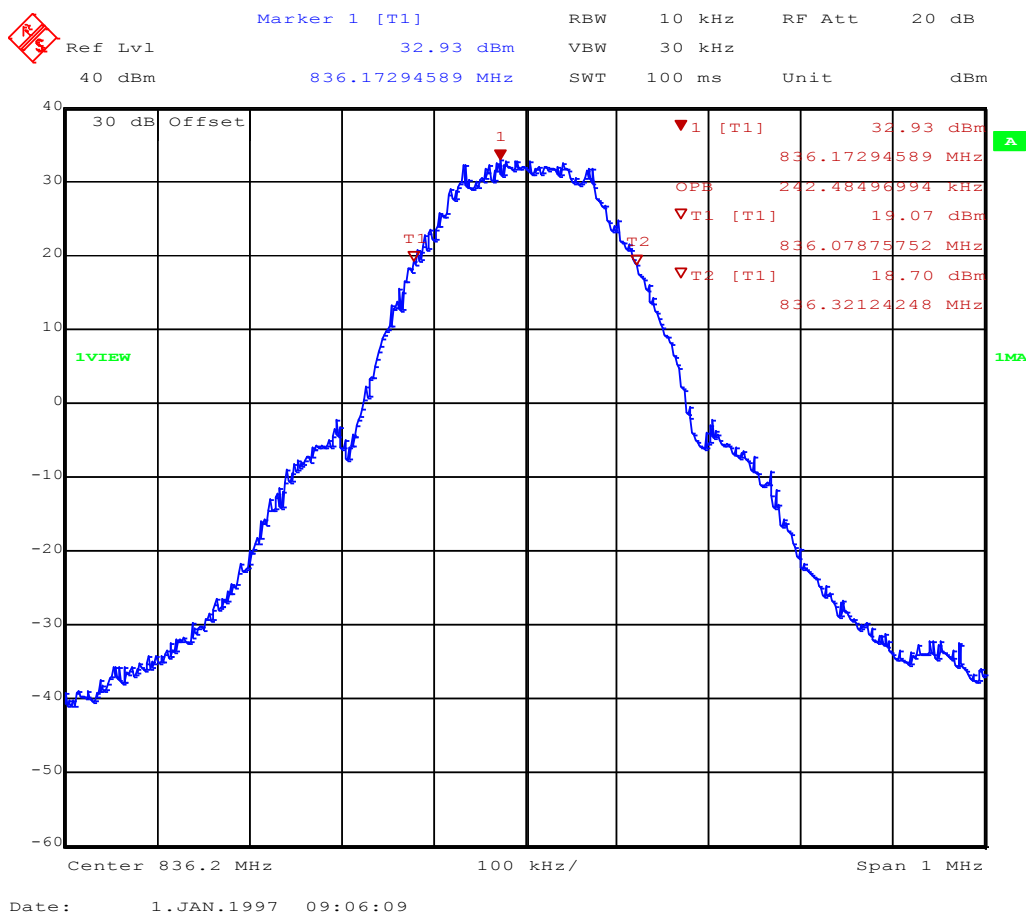


Occupied Bandwidth – GSM850 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

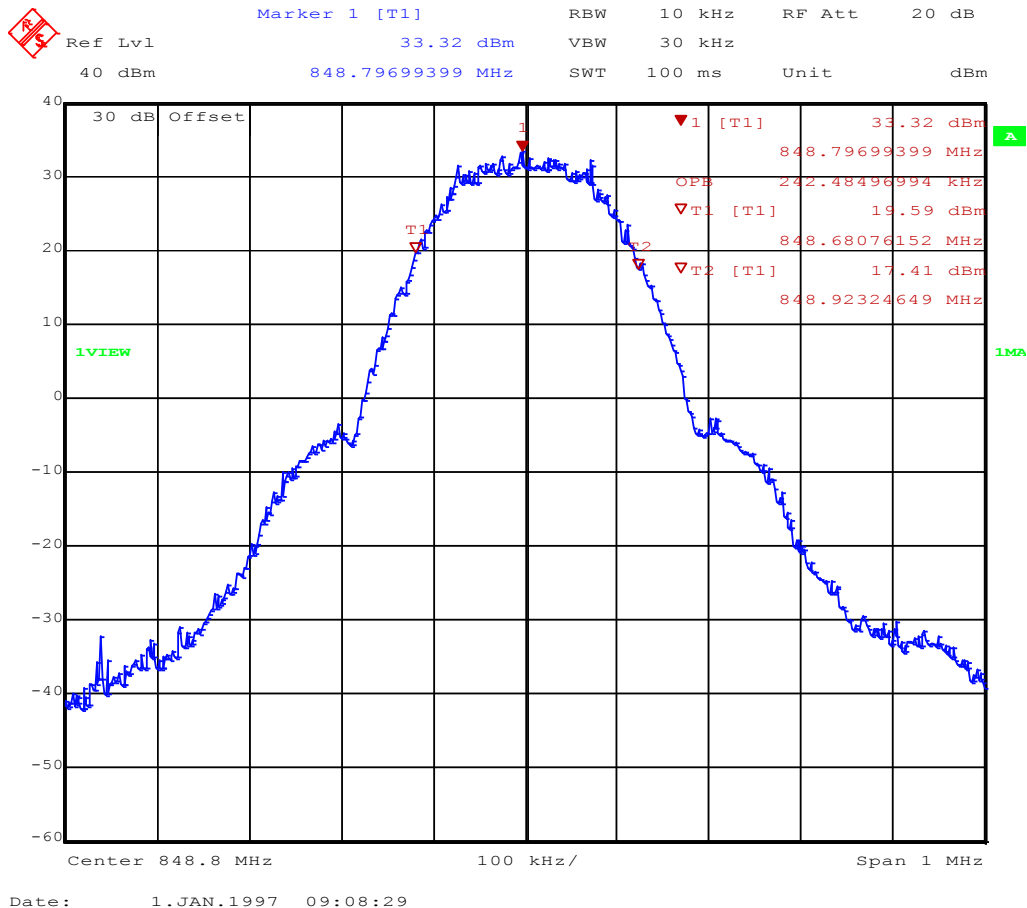
Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Burkhard Pudell
 Test Conditions: Tnom / Vnom
 Mode: GPRS 850 / CH: 188 / Gamma:3 (33 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 242.485 kHz



Occupied Bandwidth – GSM850 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: GPRS 850 / CH: 251 / Gamma:3 (33 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 242.485 kHz

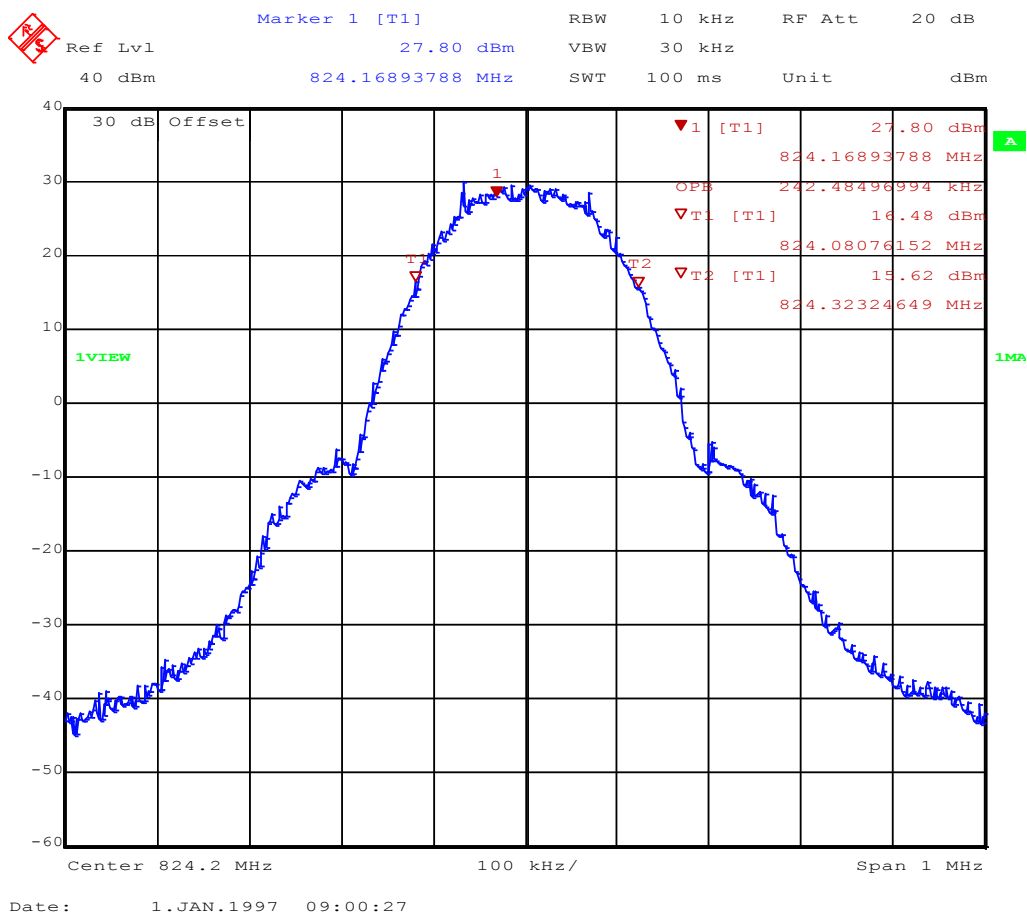


Occupied Bandwidth – EGPRS850 F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

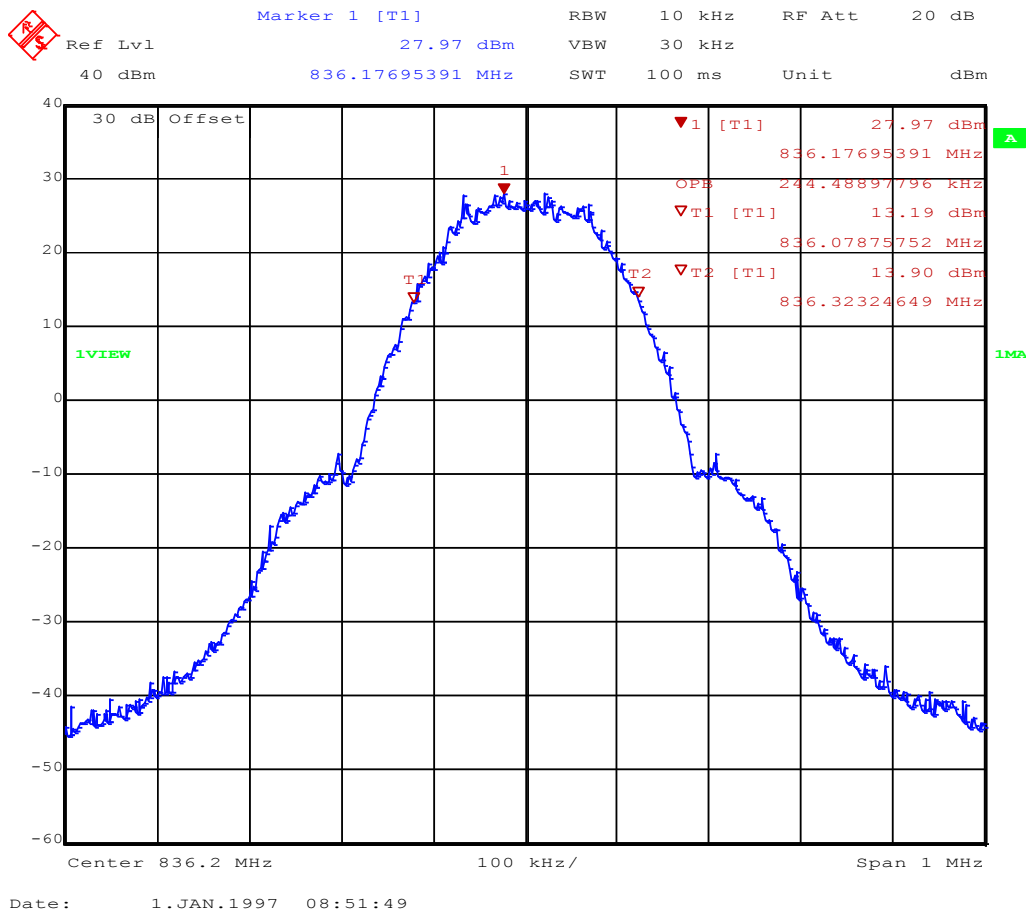
Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Burkhard Pudell
 Test Conditions: Tnom / Vnom
 Mode: EDGE 850 / CH: 128 / Gamma:6 (27 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 242.485 kHz



Occupied Bandwidth – EGPRS850 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: EDGE 850 / CH: 188 / Gamma:6 (27 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 244.489 kHz

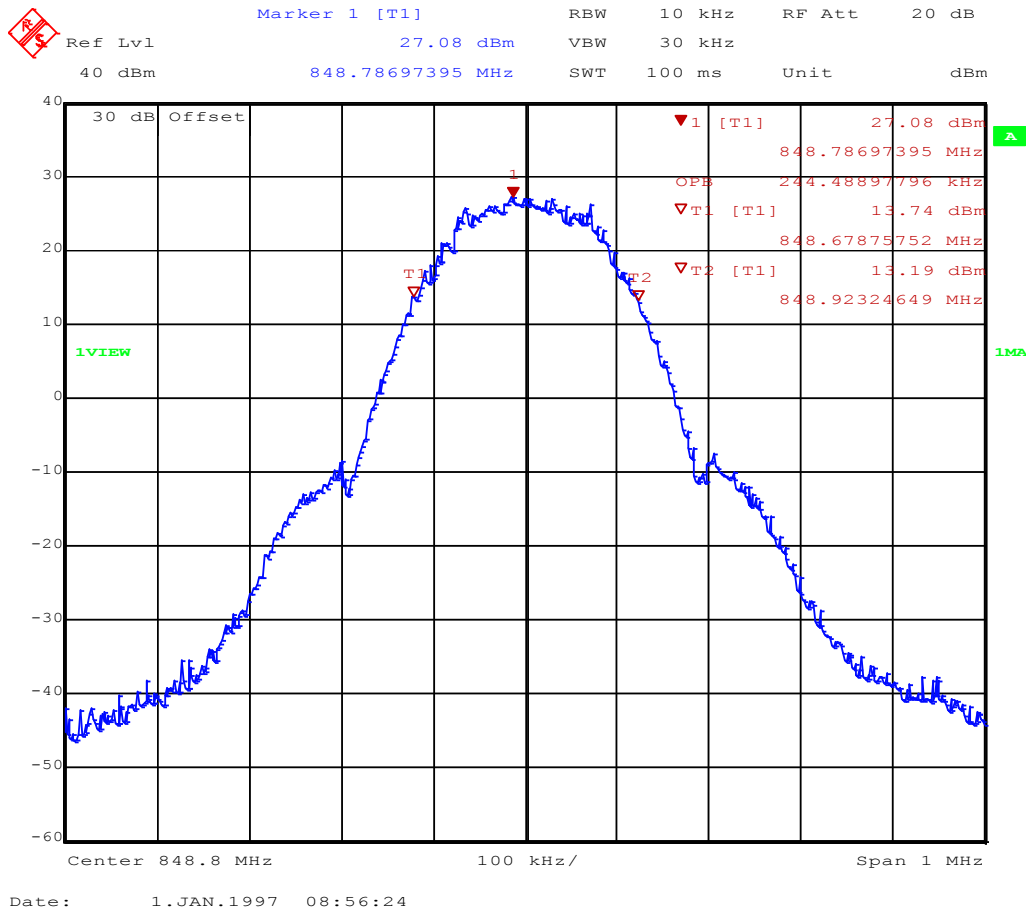


Occupied Bandwidth – EGPRS850 F_{HIGH}

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: EDGE 850 / CH: 251 / Gamma:6 (27 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 244.489 kHz

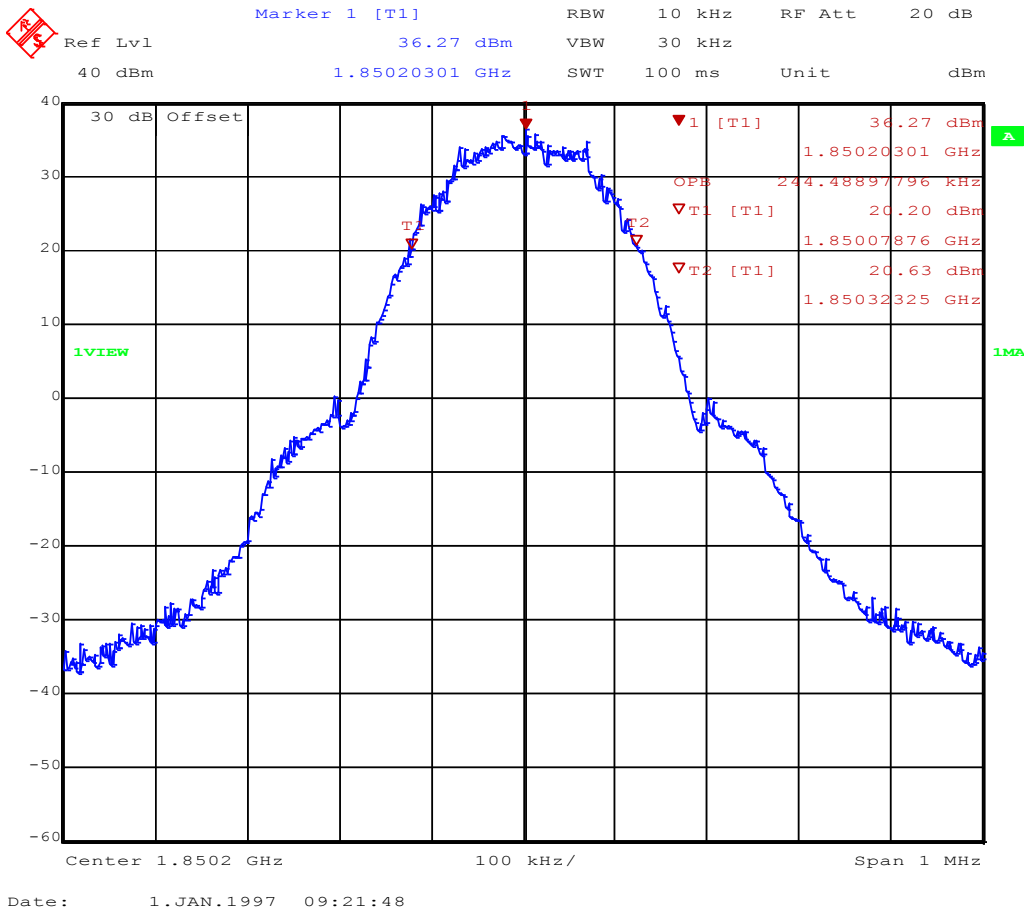


Occupied Bandwidth – GSM1900 F_{Low}

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: GPRS 1900 / CH: 512 / Gamma:3 (30 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 244.489 kHz

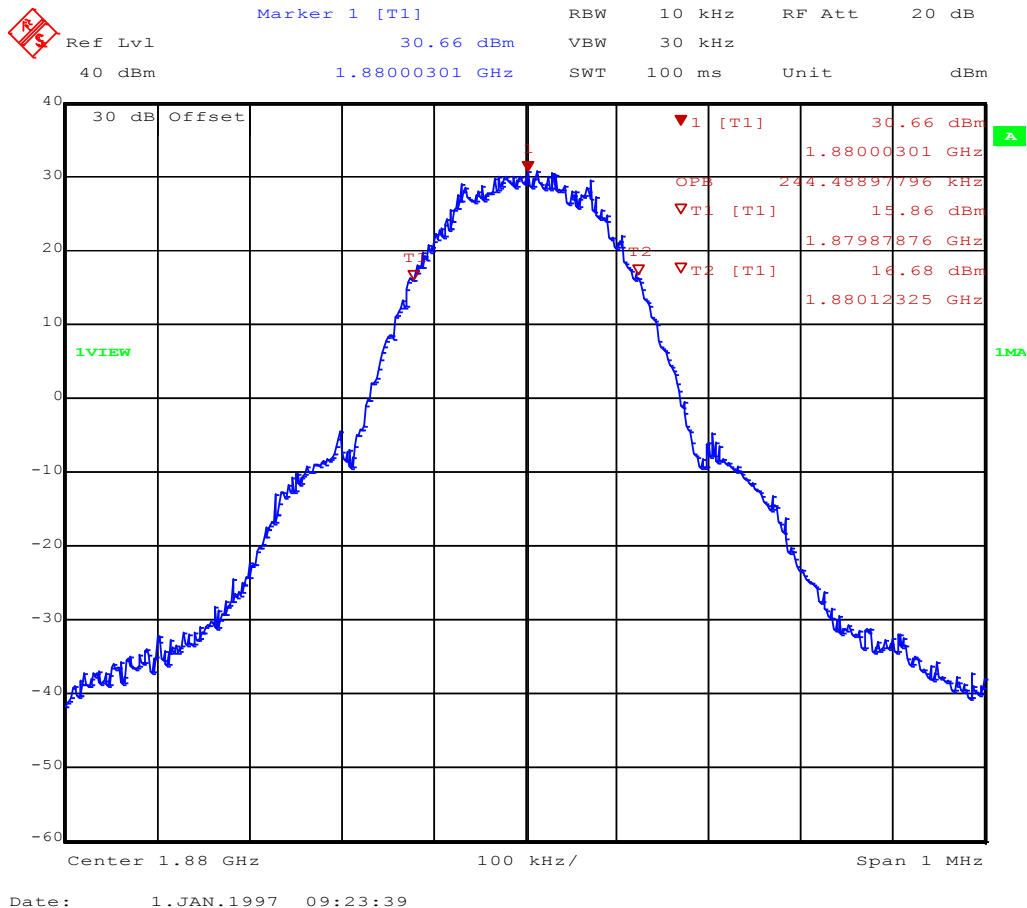


Occupied Bandwidth – GSM1900 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

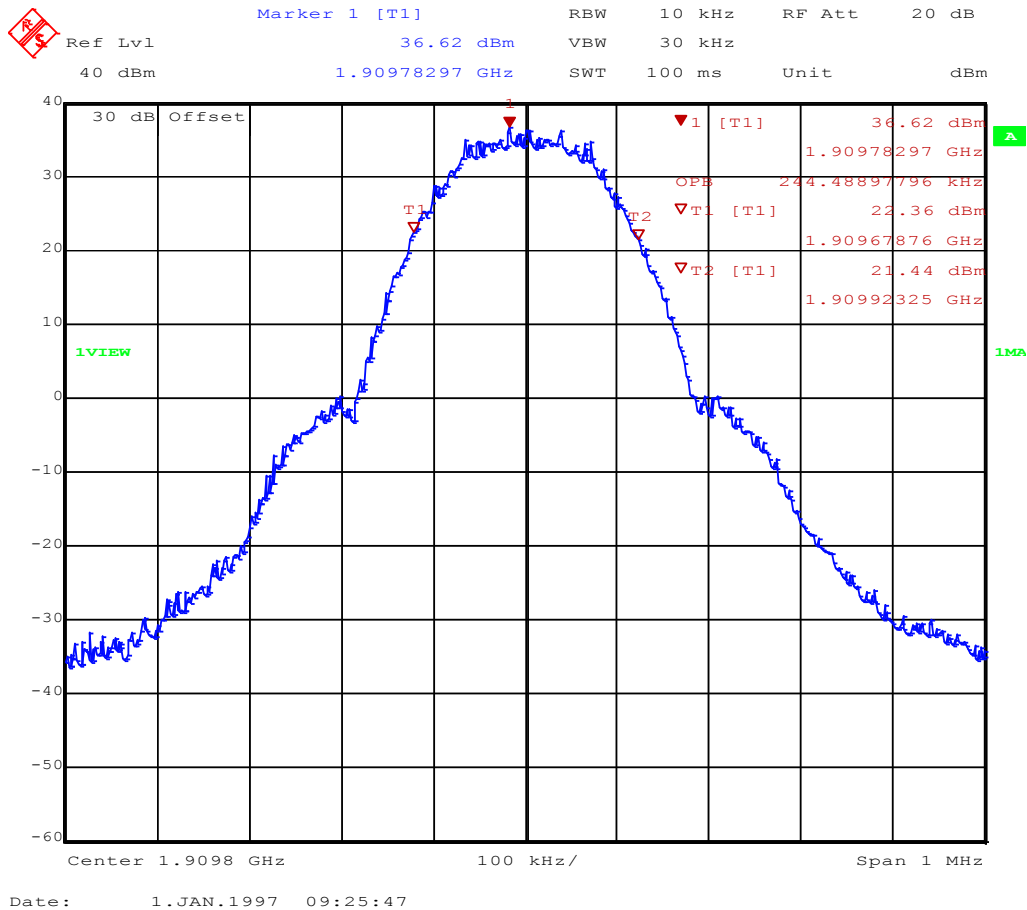
Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Burkhard Pudell
 Test Conditions: Tnom / Vnom
 Mode: GPRS 1900 / CH: 661 / Gamma:3 (30 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 244.489 kHz



Occupied Bandwidth – GSM1900 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: GPRS 1900 / CH: 810 / Gamma:3 (30 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 244.489 kHz

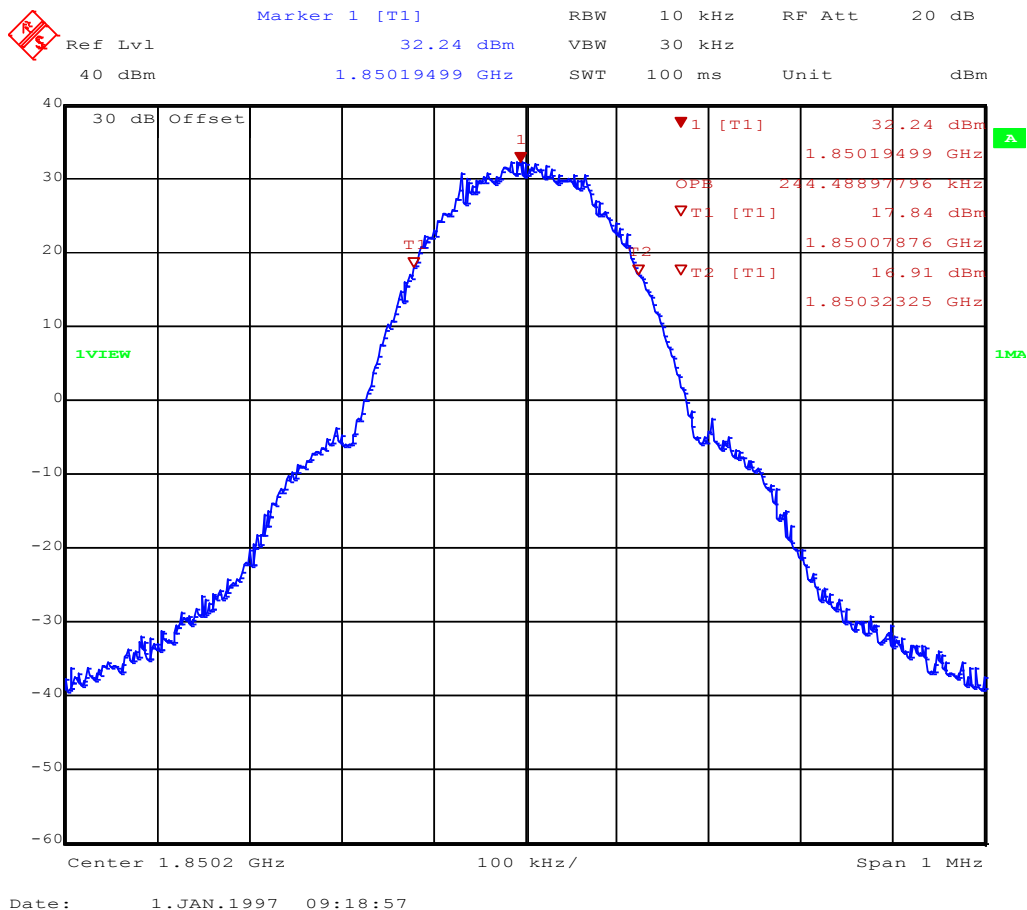


Occupied Bandwidth – EGPRS1900 F_{Low}

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: EDGE 1900 / CH: 512 / Gamma:5 (26 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 244.489 kHz

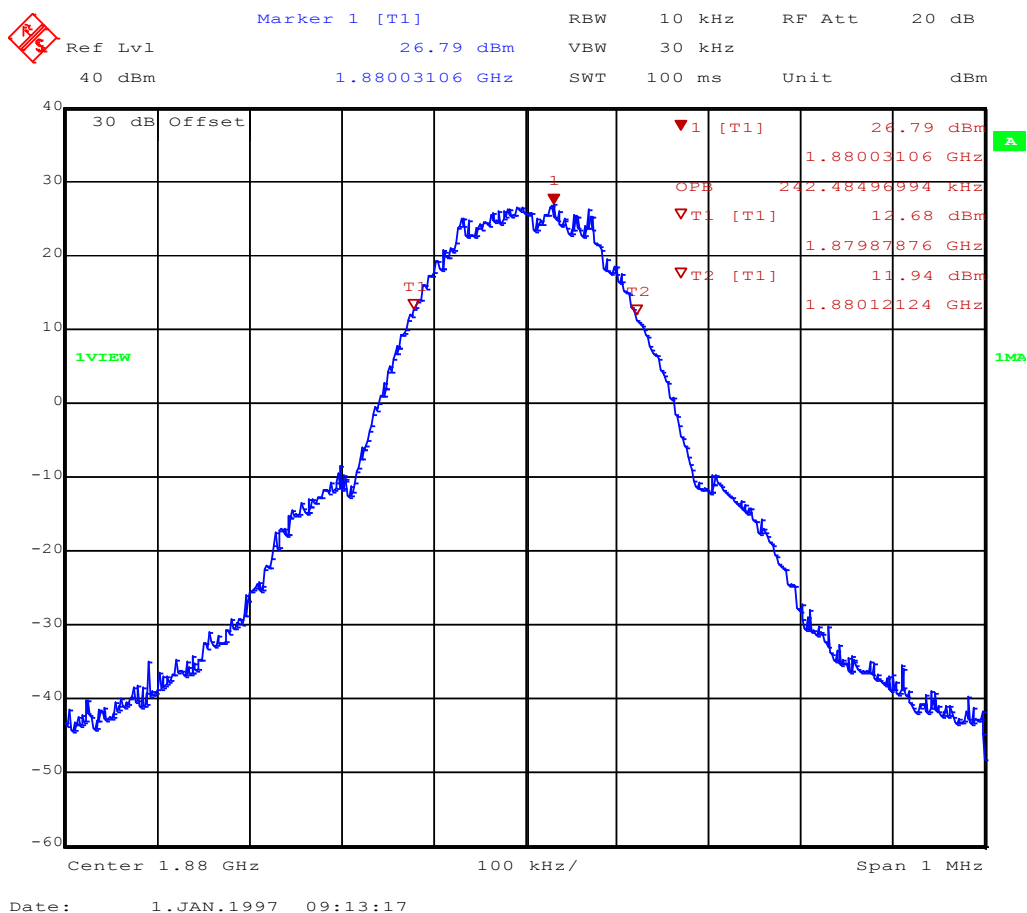


Occupied Bandwidth – EGPRS1900 F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1406-3917

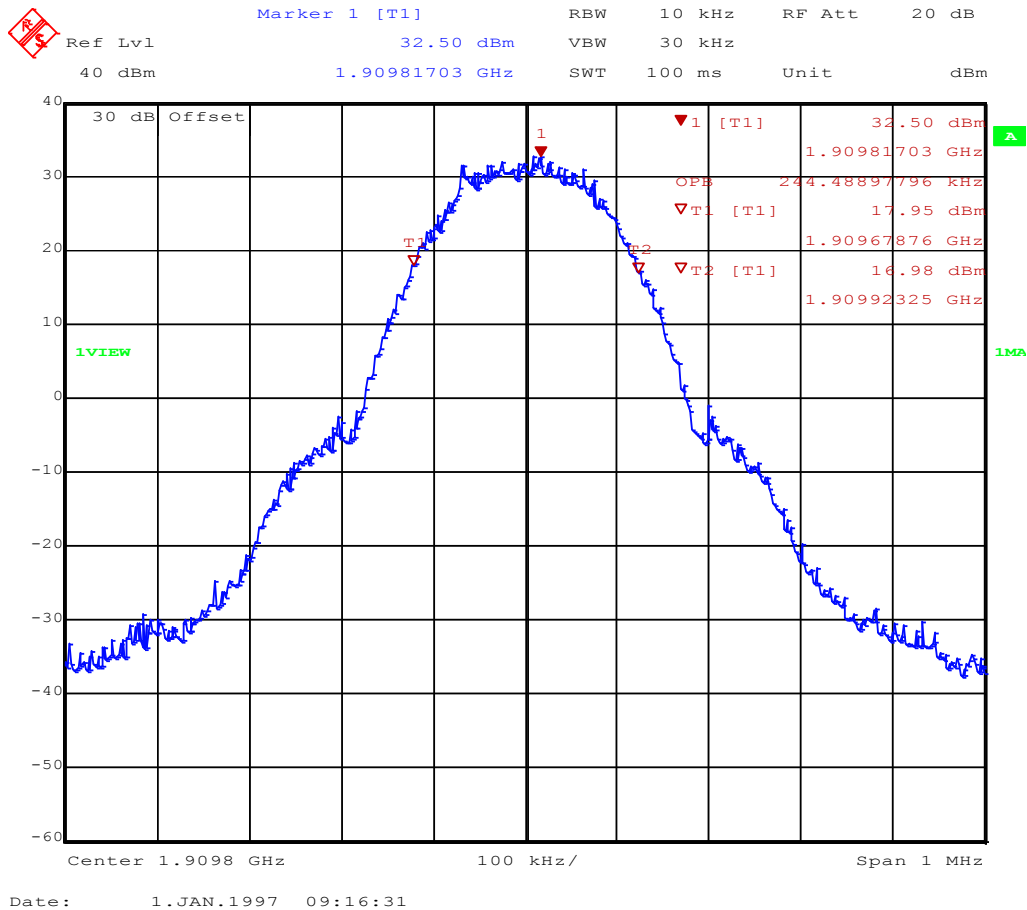
Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Burkhard Pudell
 Test Conditions: Tnom / Vnom
 Mode: EDGE 1900 / CH: 661 / Gamma:5 (26 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 242.485 kHz



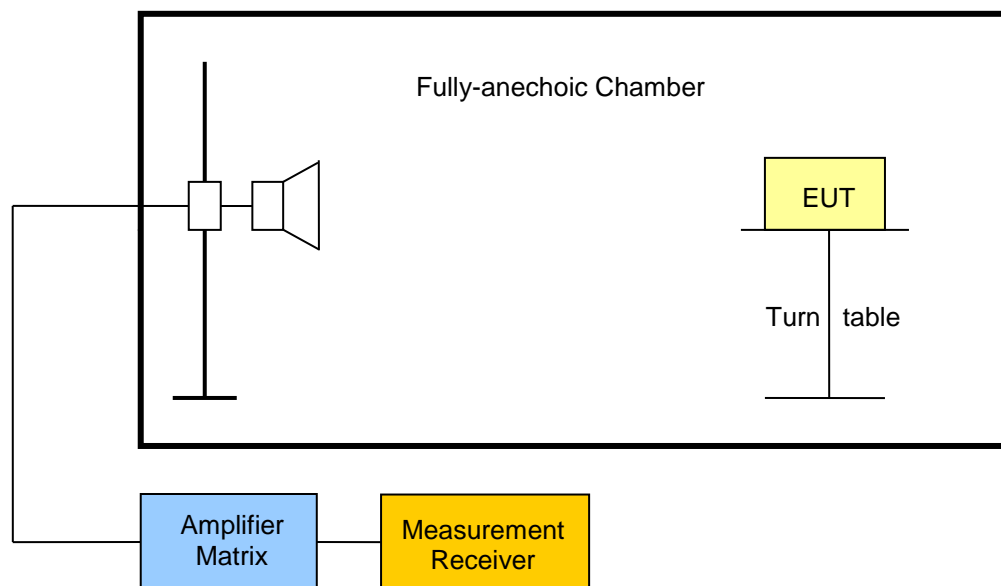
Occupied Bandwidth – EGPRS1900 F_{HIGH}
Occupied Bandwidth acc. to RSS-Gen

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: EDGE 1900 / CH: 810 / Gamma:5 (26 dBm) / Main Slot 3
 Test Date: 2014-11-21
 Verdict: NONE (INFORMATION ONLY)
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
 Note 2: OBW = 244.489 kHz

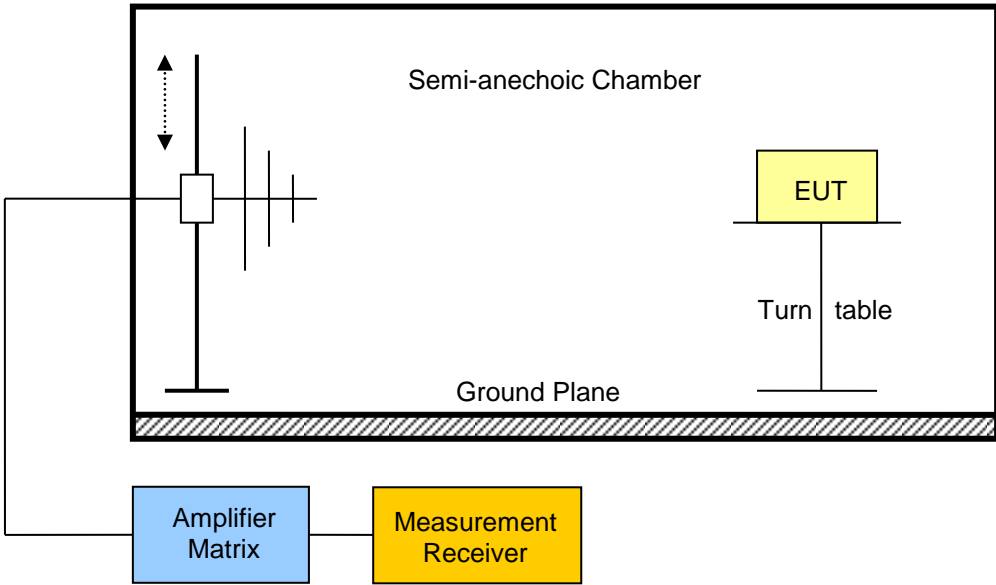


3.2 Test Conditions and Results – Effective radiated power / Equivalent isotropic radiated power

Radiated power acc. to FCC 22H / FCC 24E / IC RSS-132 / IC RSS-133		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC § 22.913(a) / FCC § 24.232(c) IC RSS-132 § 4.4 /IC RSS-133 § 6.4	
Test according to measurement reference	Reference Method	
	FCC § 22.913(a) / FCC § 24.232(c) / ANSI/TIA-603-C IC RSS-132 § 4.4 /IC RSS-133 § 6.4	
Test frequency range	Tested frequencies	
	$F_{LOW} / F_{MID} / F_{HIGH}$	
Limits		
Frequency range	Equipment type	Power limit
824-849 MHz	Mobile transmitter	FCC : 7 Watts (38.45 dBm) e.i.r.p. IC : 11.5 Watts (40.6 dBm) e.i.r.p.
1850-1910 MHz	Mobile transmitter	FCC : 2 Watts (33 dBm) e.i.r.p. IC : 2 Watts (33 dBm) e.i.r.p.
Test setup		
 <p>The diagram illustrates the test setup. A Fully-anechoic Chamber is shown with a measurement antenna on the left and an EUT on a turn table on the right. The EUT is connected to an Amplifier Matrix and a Measurement Receiver outside the chamber.</p>		
Test procedure		
<ol style="list-style-type: none"> 1. EUT set to test mode 2. The radiated power is measured with a measurement antenna in vertical polarization 3. To obtain maximum level the EUT is rotated 4. The EUT is replaced with a half-wave dipole and the power to the dipole is adjusted to obtain same radiated power measurement value 		

Test results – GSM850 E.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.r.p]	Limit [dBm e.r.p]	Margin [dB]	Result
F _{LOW}	824.2	GSM850	hor	31.3	38.45	-07.15	PASS
F _{MID}	836.2	GSM850	hor	31.4	38.45	-07.05	PASS
F _{HIGH}	848.8	GSM850	hor	32.6	38.45	-05.85	PASS
F _{LOW}	824.2	EGPRS850	hor	28.9	38.45	-09.55	PASS
F _{MID}	836.2	EGPRS850	hor	28.3	38.45	-10.15	PASS
F _{HIGH}	848.8	EGPRS850	hor	29.2	38.45	-09.25	PASS
Test results – GSM850 E.I.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.i.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result
F _{LOW}	824.2	GSM850	hor	33.45	40.6	-07.15	PASS
F _{MID}	836.2	GSM850	hor	33.55	40.6	-07.05	PASS
F _{HIGH}	848.8	GSM850	hor	34.75	40.6	-05.85	PASS
F _{LOW}	824.2	EGPRS850	hor	31.05	40.6	-09.55	PASS
F _{MID}	836.2	EGPRS850	hor	30.45	40.6	-10.15	PASS
F _{HIGH}	848.8	EGPRS850	hor	31.35	40.6	-09.25	PASS
Test results – GSM1900 E.I.R.P.							
Channel	Frequency [MHz]	Mode	Pol.	Power [dBm e.i.r.p]	Limit [dBm e.i.r.p]	Margin [dB]	Result
F _{LOW}	1850.2	GSM1900	hor	32.0	33	-01.00	PASS
F _{MID}	1880	GSM1900	hor	32.9	33	-00.10	PASS
F _{HIGH}	1909.8	GSM1900	hor	31.0	33	-02.00	PASS
F _{LOW}	1850.2	EGPRS1900	hor	29.6	33	-03.40	PASS
F _{MID}	1880	EGPRS1900	hor	28.9	33	-04.10	PASS
F _{HIGH}	1909.8	EGPRS1900	hor	27.5	33	-05.50	PASS
Comments:							

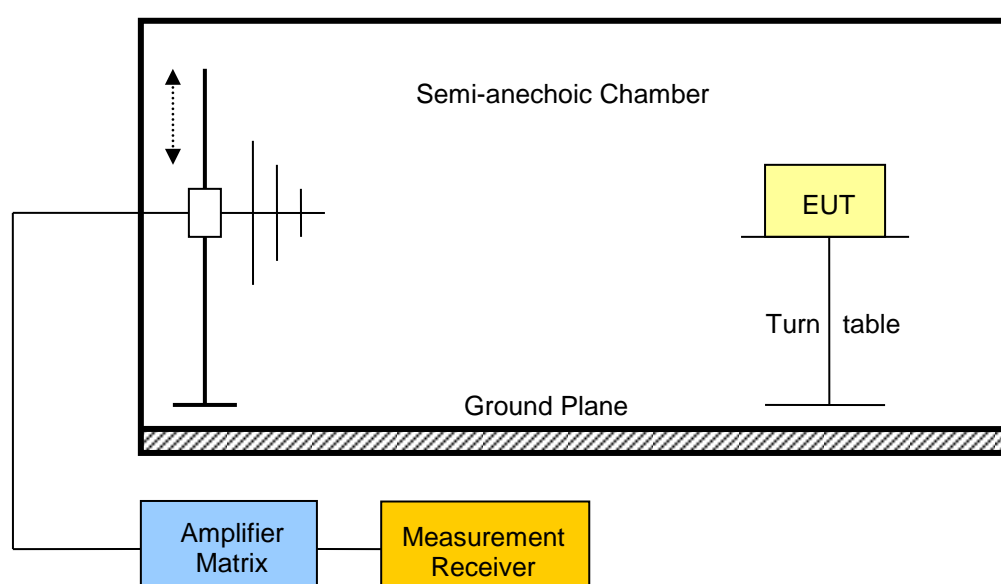
3.3 Test Conditions and Results – Transmitter radiated emissions

Transmitter radiated power acc. to FCC 22H / FCC 24E / IC RSS-132 / IC RSS-133		Verdict: PASS
Test according referenced standards	Reference Method	
	FCC § 22.917(a) / FCC § 24.238(a) IC RSS-132 § 4.5 / IC RSS-133 § 6.5	
Test according to measurement reference	Reference Method	
	ANSI/TIA-603-C	
Test frequency range	Tested frequencies	
	30 MHz – 10 th Harmonic	
Limits		
Frequency range	Limit	
824-849 MHz	Attenuation below transmitter power $\geq 43 + 10 \cdot \log_{10}(P)$ [dB] = -13 dBm	
1850-1910 MHz	Attenuation below transmitter power $\geq 43 + 10 \cdot \log_{10}(P)$ [dB] = -13 dBm	
Test setup		
 <p>The diagram illustrates the test setup within a semi-anechoic chamber. On the left, an antenna is mounted on a vertical stand with an adjustable height, indicated by a double-headed arrow. The antenna is connected to an Amplifier Matrix. On the right, the Equipment Under Test (EUT) is placed on a Turn table, which is supported by a vertical stand. The turn table is positioned above a Ground Plane at the base of the chamber. The Amplifier Matrix is connected to a Measurement Receiver located outside the chamber.</p>		
Test procedure		
<ol style="list-style-type: none"> 1. EUT set to test mode 2. Maximum emission level is measured by rotating the EUT and adjusting the antenna height for vertical polarization 3. The EUT is replaced by a substitution antenna and generator 4. The power level is set to obtain the same power reading 5. Measurement is repeated for horizontal polarization 		

Test results – GSM850							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
F _{LOW}	824.2	EGPRS850	823.988	-28.00	ver	-13.00	-15.02
F _{LOW}	824.2	EGPRS850	823.994	-23.50	hor	-13.00	-10.48
F _{LOW}	824.2	EGPRS850	1648	-31.10	hor	-13.00	-18.11
F _{LOW}	824.2	EGPRS850	10136	-40.20	hor	-13.00	-27.16
F _{MID}	836.2	EGPRS850	1672	-30.90	hor	-13.00	-17.92
F _{MID}	836.2	EGPRS850	5072	-44.70	hor	-13.00	-31.69
F _{MID}	836.2	EGPRS850	5232	-45.30	hor	-13.00	-32.31
F _{MID}	836.2	EGPRS850	11176	-40.10	hor	-13.00	-27.09
F _{HIGH}	848.8	EGPRS850	849.02	-28.60	ver	-13.00	-15.62
F _{HIGH}	848.8	EGPRS850	849.022	-22.30	hor	-13.00	-09.27
F _{HIGH}	848.8	EGPRS850	1696	-30.00	hor	-13.00	-17.01
F _{HIGH}	848.8	EGPRS850	4040	-38.40	hor	-13.00	-25.37
F _{HIGH}	848.8	EGPRS850	4896	-36.70	hor	-13.00	-23.67
F _{HIGH}	848.8	EGPRS850	11128	-40.10	hor	-13.00	-27.10
F _{LOW}	824.2	GPRS850	823.994	-17.60	hor	-13.00	-04.59
F _{LOW}	824.2	GPRS850	823.998	-21.00	ver	-13.00	-08.00
F _{LOW}	824.2	GPRS850	1648	-29.20	hor	-13.00	-16.18
F _{MID}	836.2	GPRS850	1666	-28.40	hor	-13.00	-15.41
F _{MID}	836.2	GPRS850	4176	-46.00	hor	-13.00	-32.97
F _{HIGH}	848.8	GPRS850	849.018	-13.90	hor	-13.00	-00.85
F _{HIGH}	848.8	GPRS850	849.02	-18.20	ver	-13.00	-05.24
F _{HIGH}	848.8	GPRS850	1696	-26.50	hor	-13.00	-13.54
F _{HIGH}	848.8	GPRS850	1696	-30.40	ver	-13.00	-17.42
F _{HIGH}	848.8	GPRS850	4240	-43.20	hor	-13.00	-30.25
F _{HIGH}	848.8	GPRS850	4240	-43.00	ver	-13.00	-29.96
F _{HIGH}	848.8	GPRS850	5088	-41.90	hor	-13.00	-28.88
F _{HIGH}	848.8	GPRS850	7632	-39.80	ver	-13.00	-26.76
F _{HIGH}	848.8	GPRS850	8488	-40.60	ver	-13.00	-27.65
Comments:							

Test results – GSM1900							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbm]	Pol.	Limit [dBm]	Margin [dB]
F _{LOW}	1850.2	EGPRS1900	1850	-30.40	ver	-13.00	-17.36
F _{LOW}	1850.2	EGPRS1900	1850	-22.30	hor	-13.00	-09.32
F _{HIGH}	1909.8	EGPRS1900	1910	-19.80	hor	-13.00	-06.83
F _{HIGH}	1909.8	EGPRS1900	1911	-24.30	ver	-13.00	-11.28
F _{LOW}	1850.2	GPRS1900	1850	-25.20	ver	-13.00	-12.25
F _{LOW}	1850.2	GPRS1900	1850	-20.60	hor	-13.00	-07.58
F _{HIGH}	1909.8	GPRS1900	1910	-22.30	ver	-13.00	-09.30
F _{HIGH}	1909.8	GPRS1900	1910	-25.90	hor	-13.00	-12.90
Comments:							

3.4 Test Conditions and Results – Receiver radiated emissions

Receiver radiated emissions acc. to IC RSS-210			Verdict: PASS	
Test according referenced standards	Reference Method			
	IC RSS-210 A8.5			
Test according to measurement reference	Reference Method			
	ANSI C63.4			
Test frequency range	Tested frequencies			
	30 MHz – 3 th Harmonic			
EUT test mode	Receive			
Limits				
Frequency range [MHz]	Detector	Limit [μ V/m]	Limit [dB μ V/m]	Limit Distance [m]
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
Test setup				
 <p>The diagram illustrates the test setup within a Semi-anechoic Chamber. A Ground Plane is located at the bottom. An Amplifier Matrix (blue box) is connected to a Measurement Receiver (yellow box) via a cable. The Amplifier Matrix is also connected to a probe antenna (represented by a vertical line with a horizontal bar) positioned inside the chamber. The probe antenna is connected to the Measurement Receiver. The EUT (Equipment Under Test, yellow box) is placed on a Turn table inside the chamber. The chamber walls are shown with diagonal hatching to indicate its semi-anechoic nature.</p>				

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 1GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1MHz with peak/average detector is used above 1GHz 4. Markers are set to peak emission levels							
Test results GSM1900							
Channel	Frequency [MHz]	Emission [MHz]	Emission Level [db μ V/m]	Emission Level [μ V/m]	Det.	Limit [μ V/m]	Margin [μ V/m]
F _{MID}	1880	443.2	36.13	64.0	pk	200	-136.00
F _{MID}	1880	750.4	36.42	66.2	pk	200	-133.80
Test results GSM850							
F _{MID}	836.2	443.2	36.25	64.9	pk	200	-135.10
F _{MID}	836.2	750.4	36.53	67.1	pk	200	-132.90
Comments:							

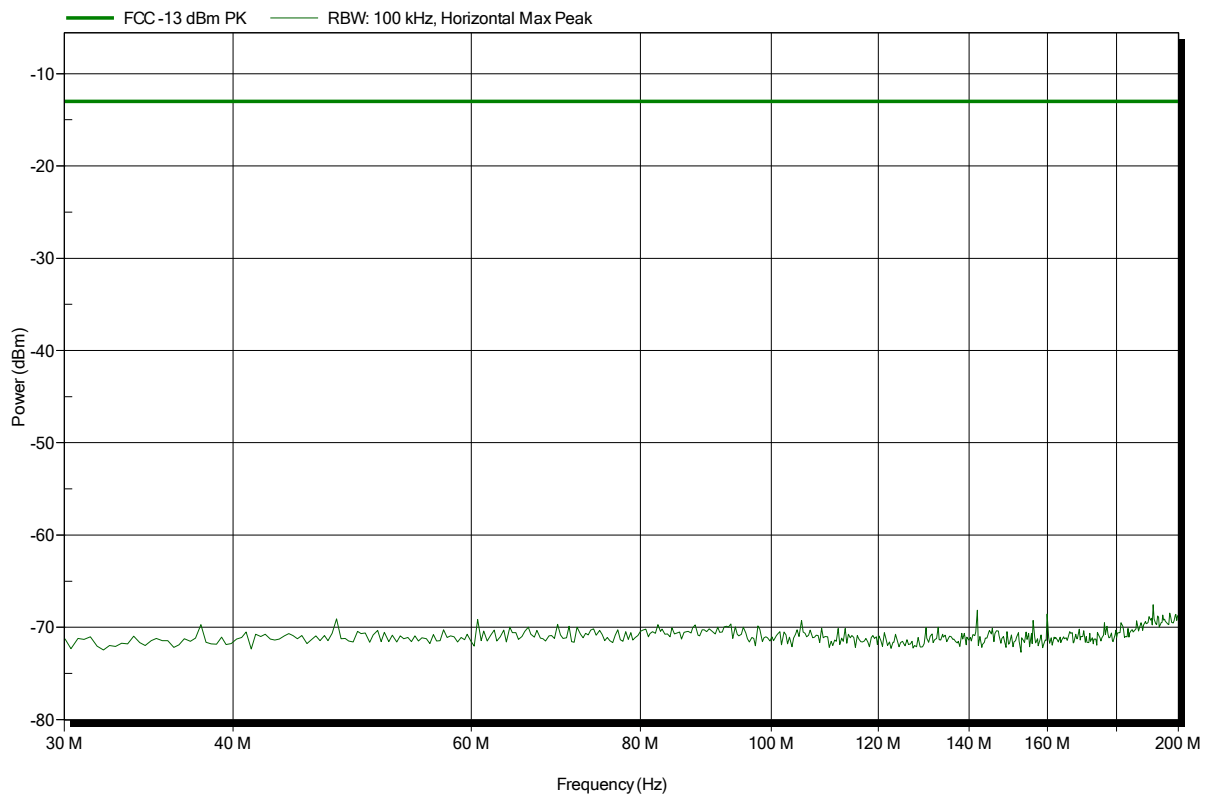
ANNEX A Transmitter radiated spurious emissions

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 128, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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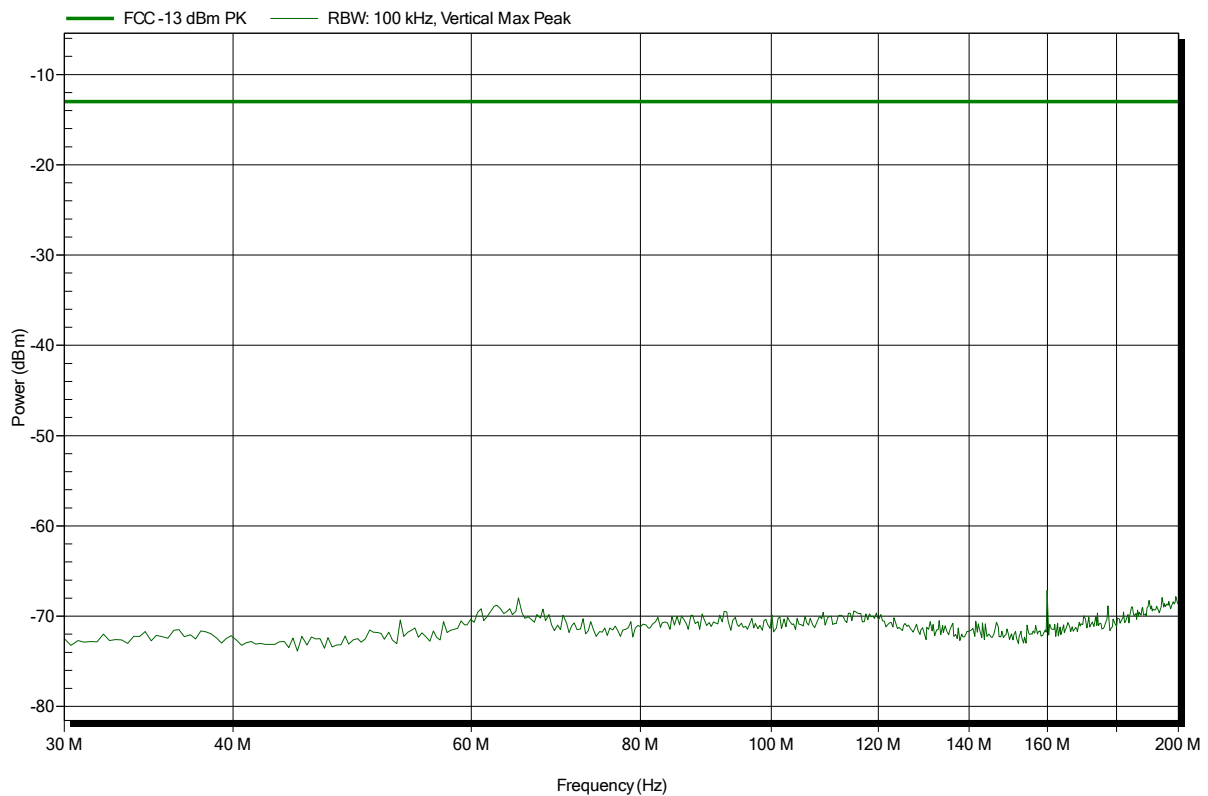


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 128, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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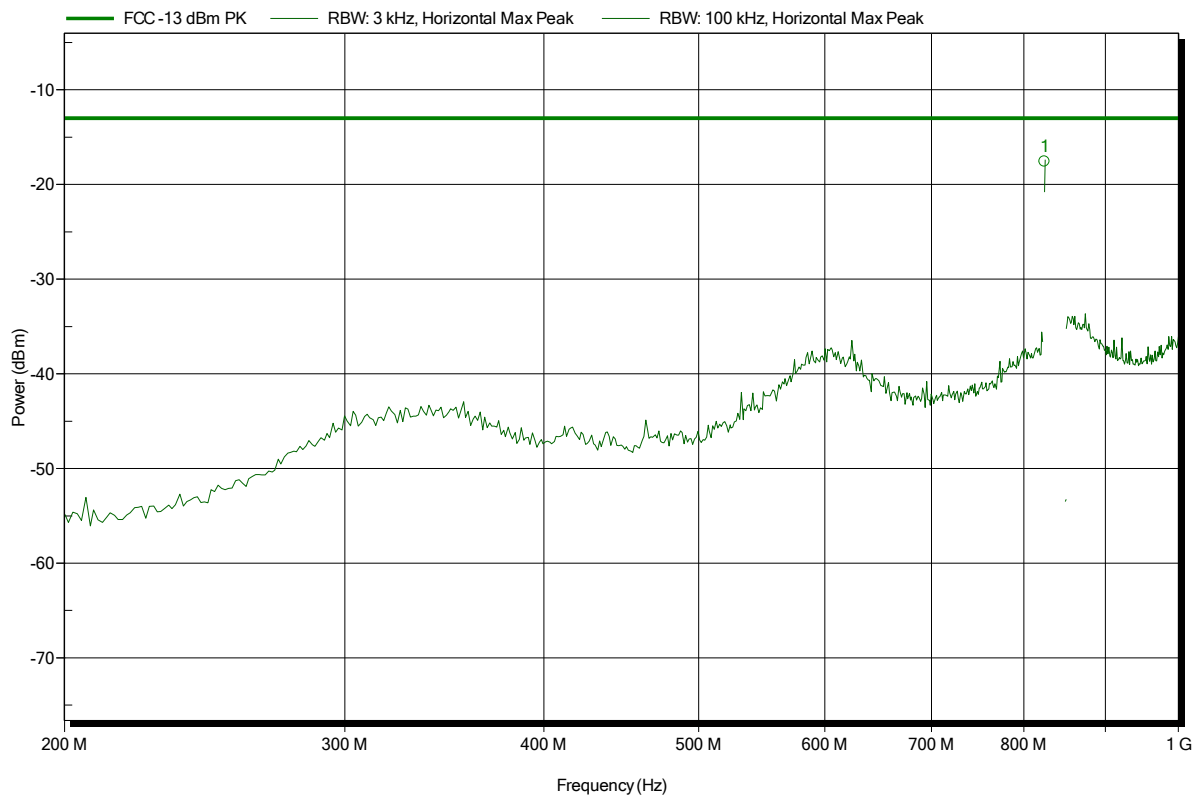


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: TX; GPRS 850, Ch. 128, 1 uplink slot, Gamma 3
 Test Date: 2014-08-04
 Note: EUT vertical

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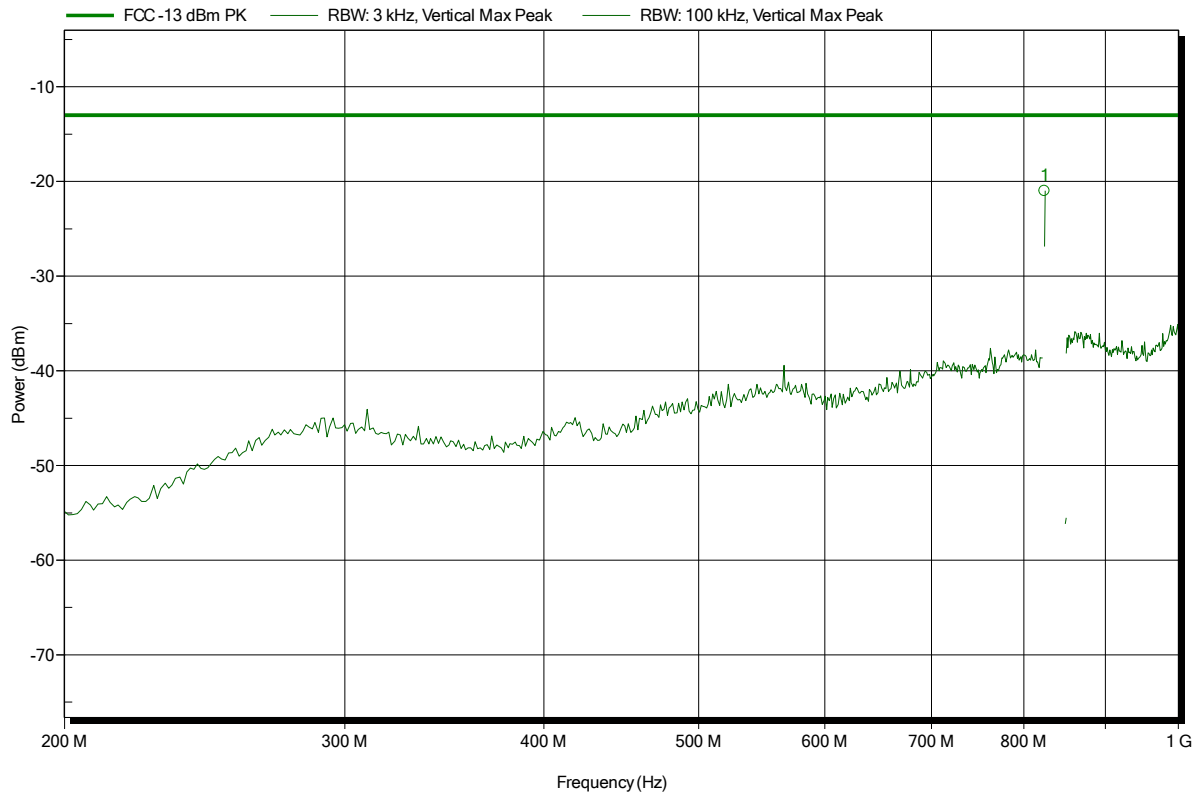
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
823.994 MHz	-17.6 dBm	-13 dBm	-4.59 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: TX; GPRS 850, Ch. 128, 1 uplink slot, Gamma 3
 Test Date: 2014-08-04
 Note: EUT vertical

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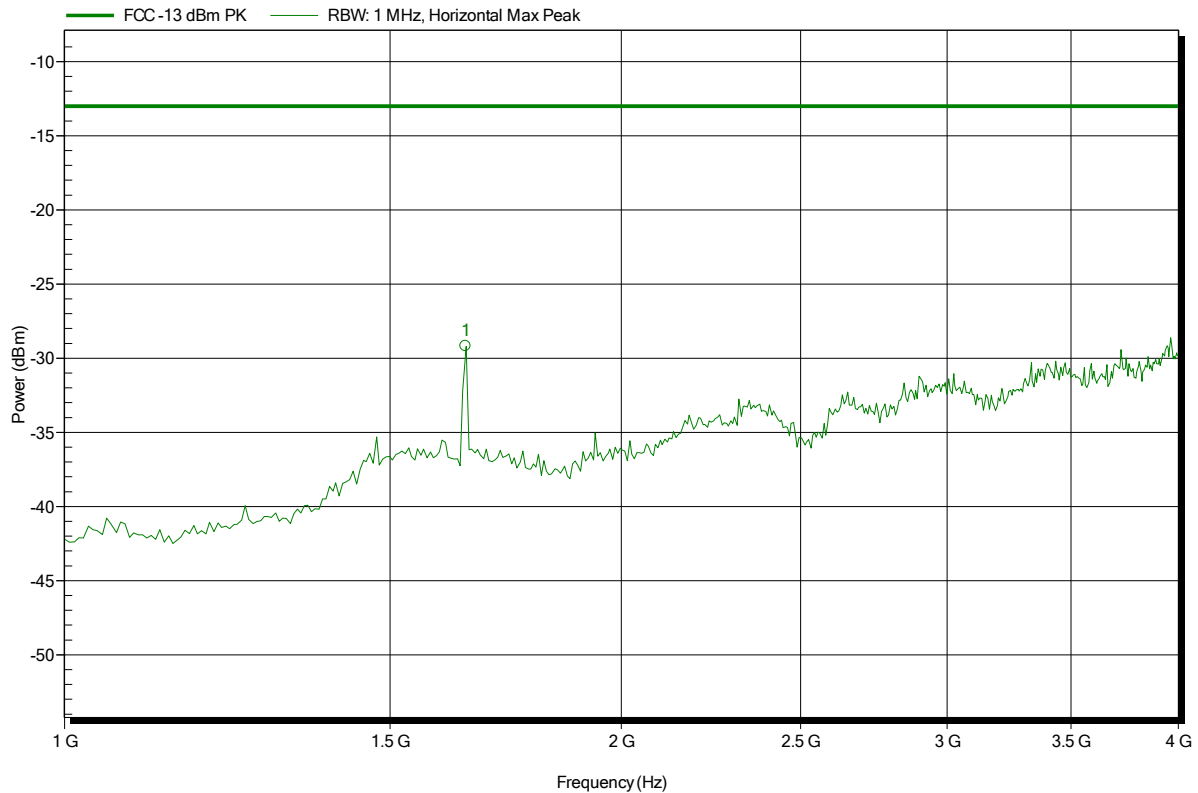
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
823.998 MHz	-21 dBm	-13 dBm	-8 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; GPRS 850, Ch. 128, 1 uplink slot, Gamma 3
 Test Date: 2014-08-04
 Note: EUT vertical

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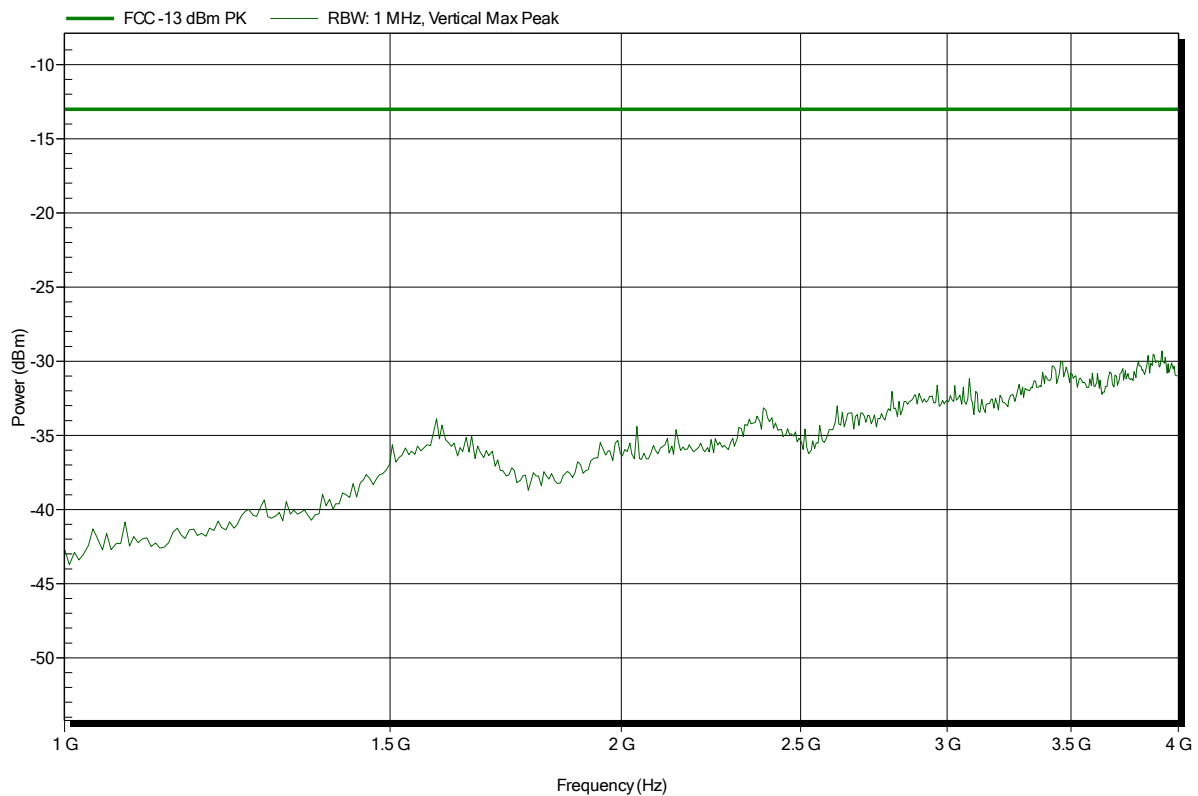
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.648 GHz	-29.2 dBm	-13 dBm	-16.18 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 128, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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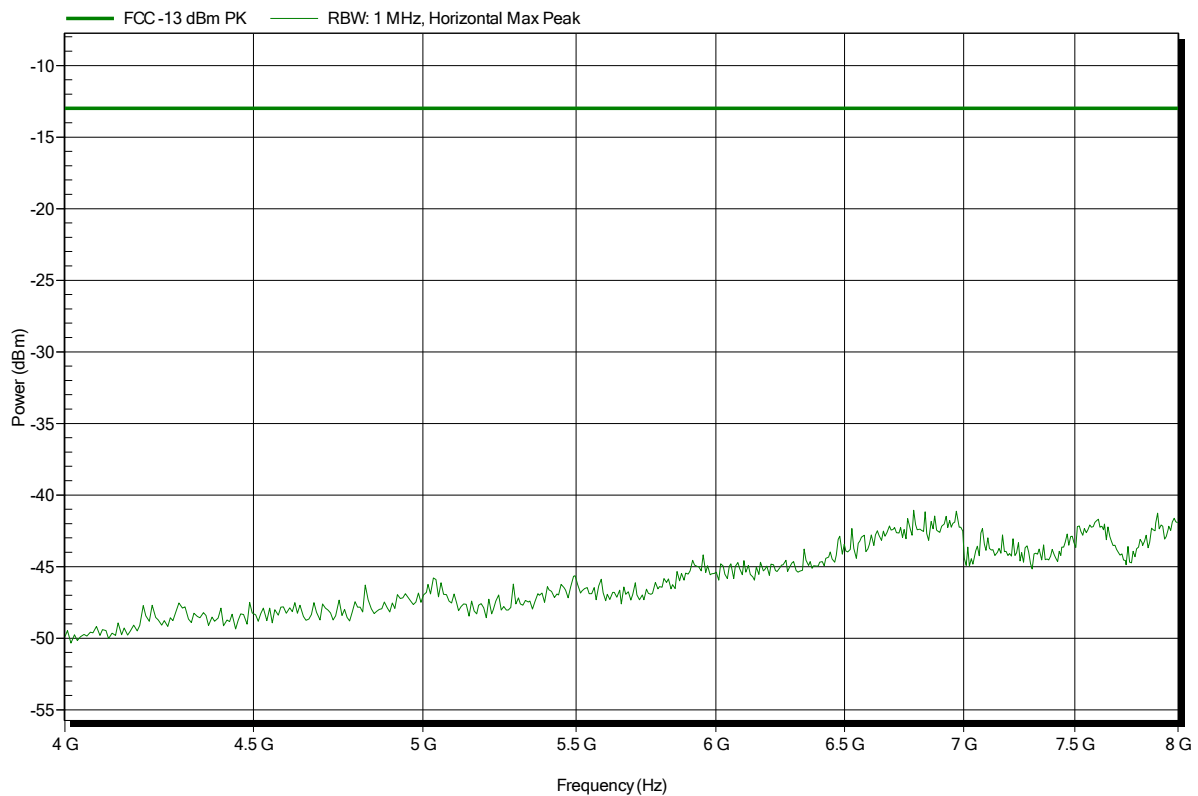


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 128, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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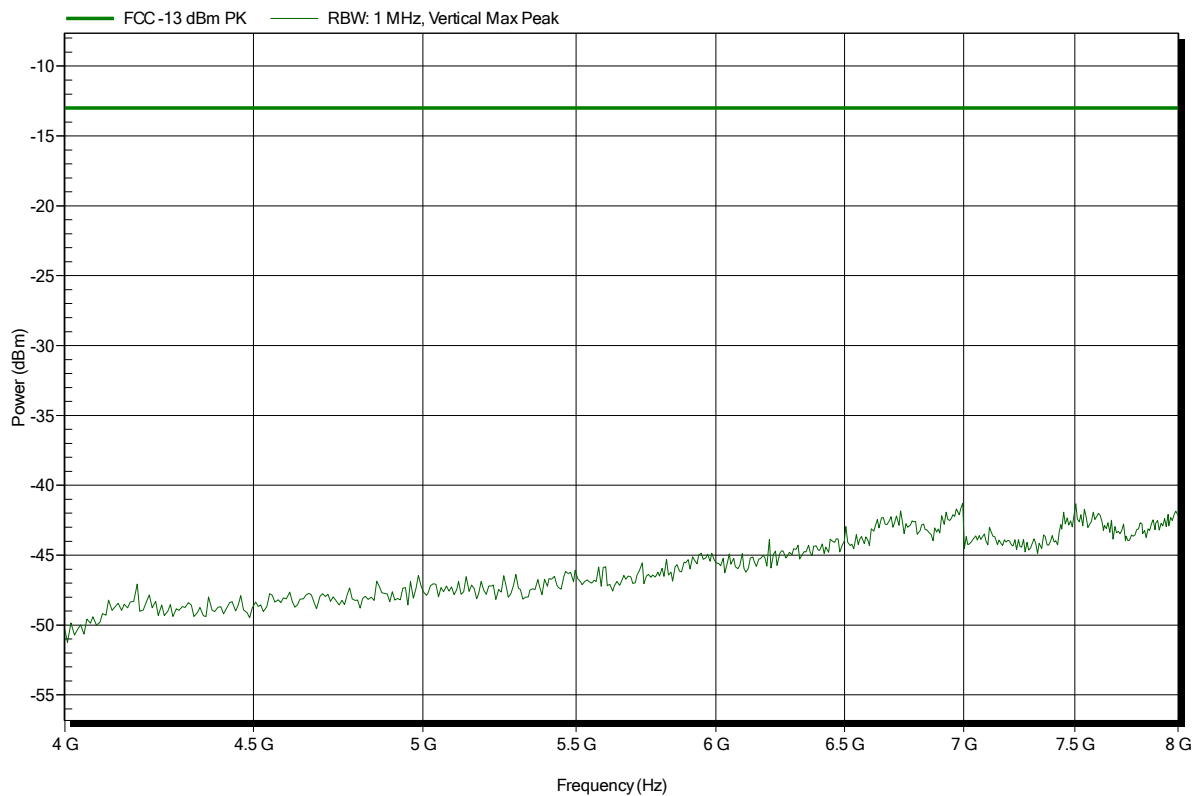


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 128, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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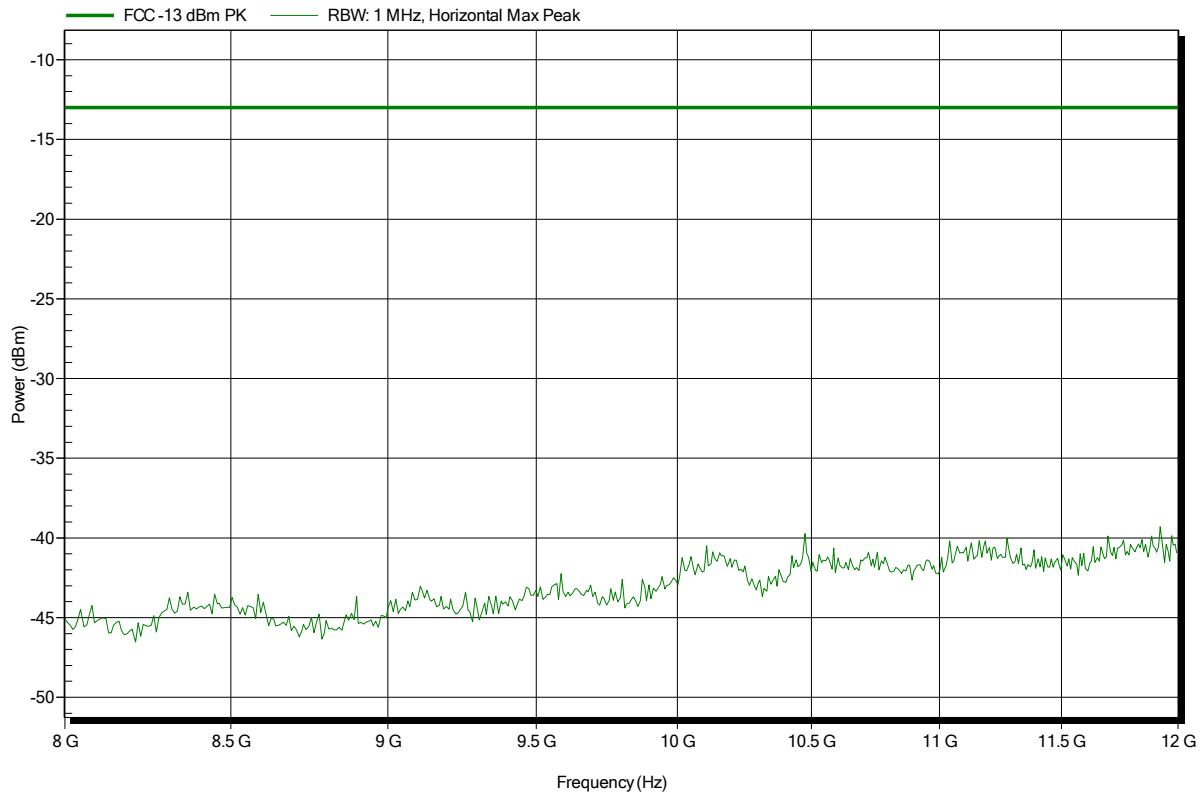


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 128, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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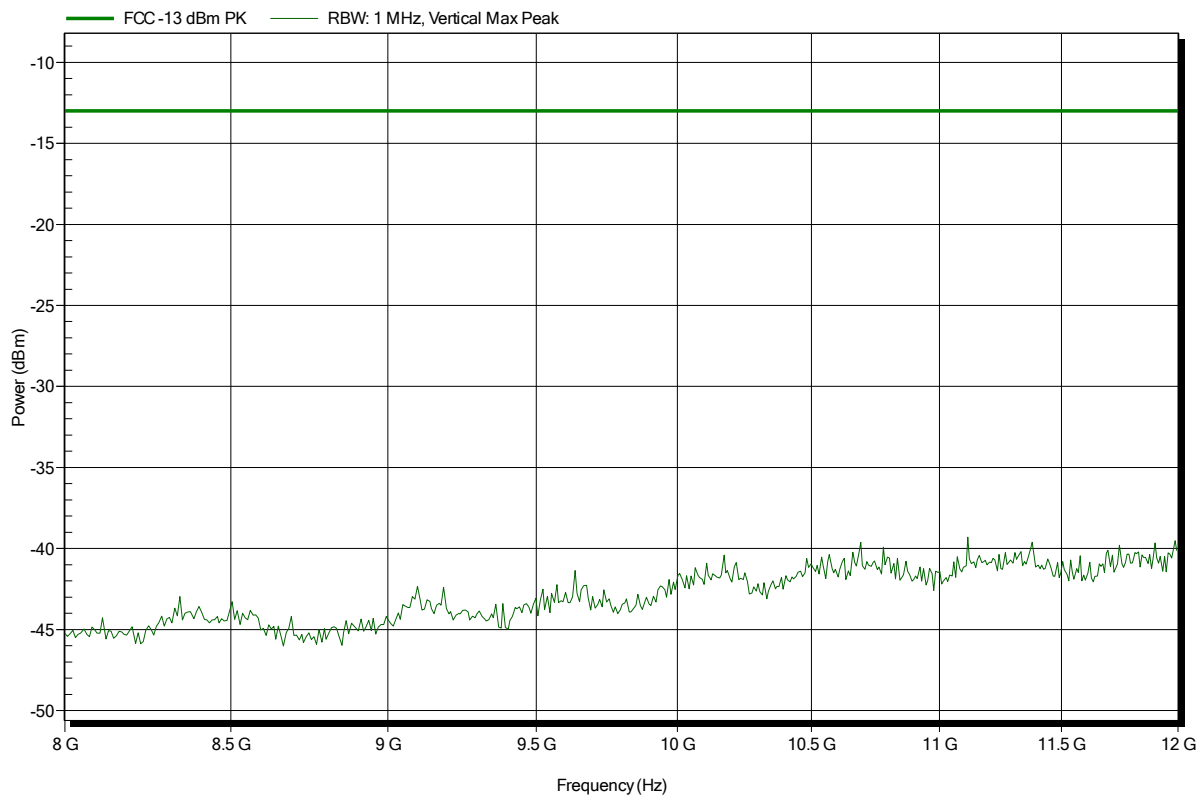


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 128, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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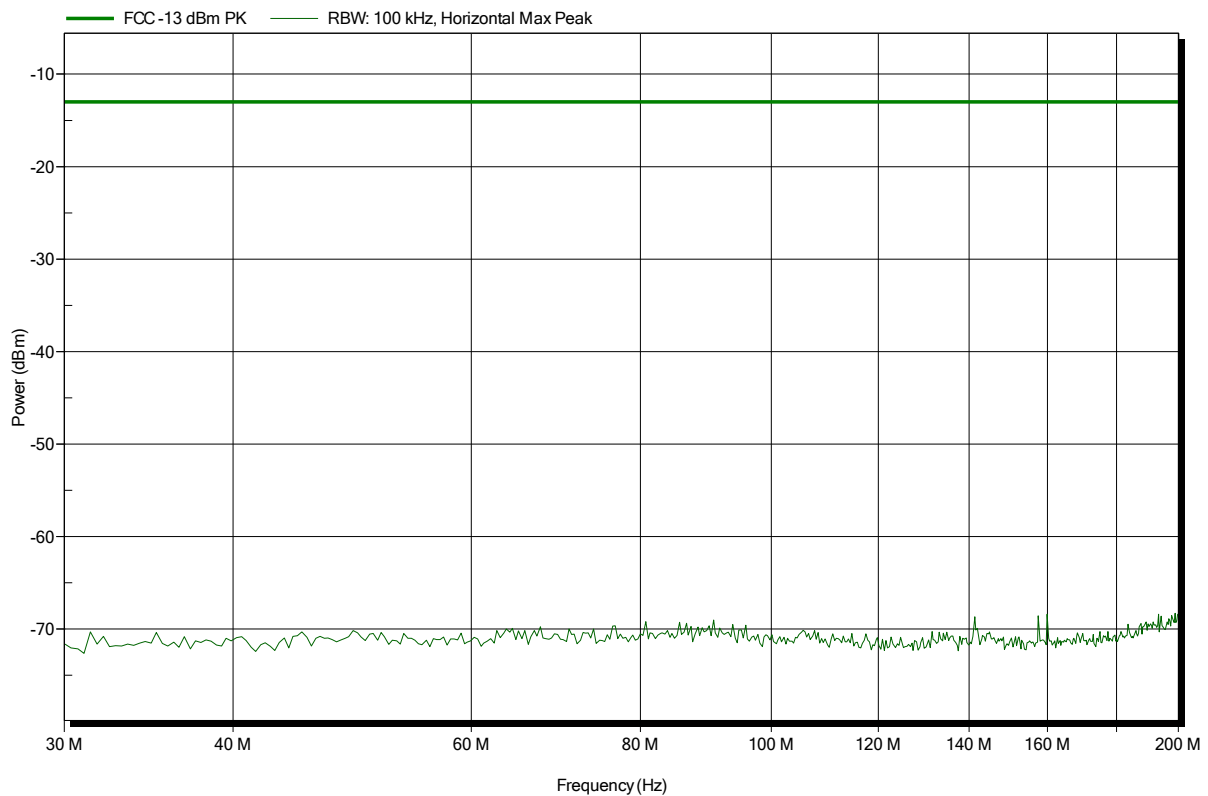


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 188, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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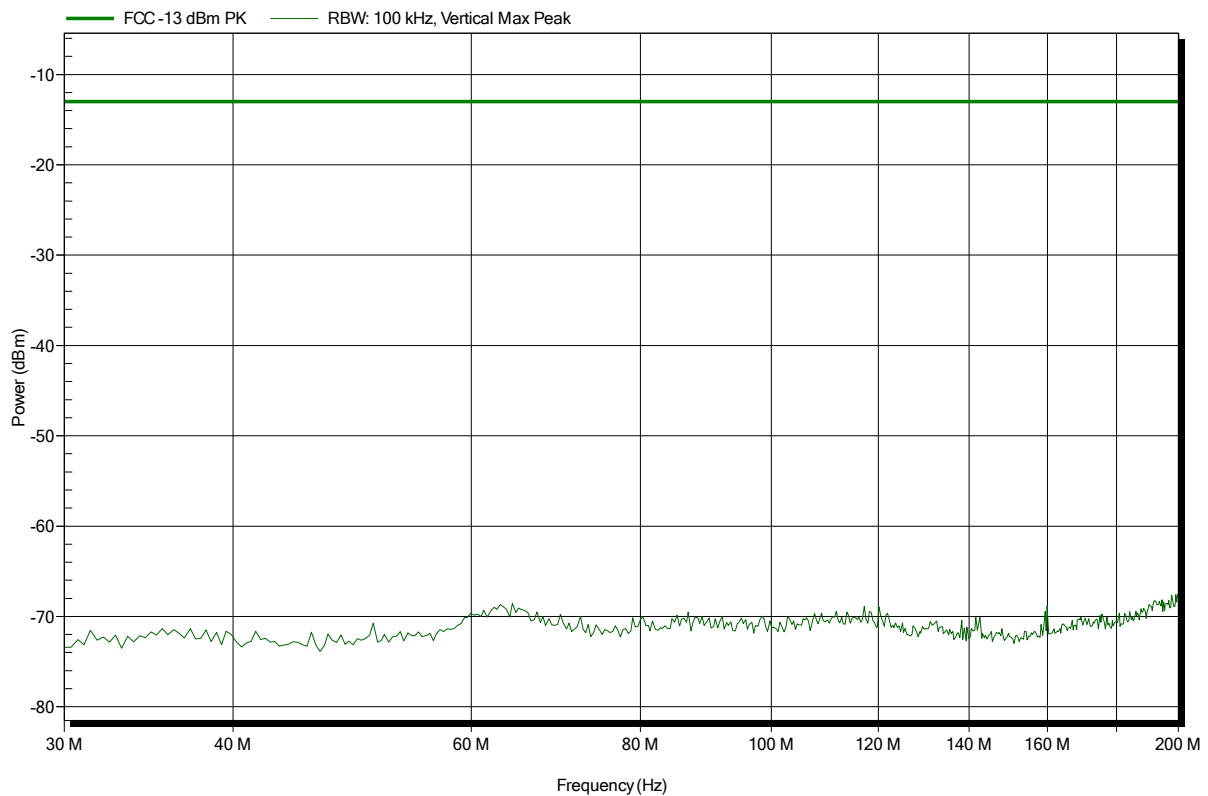


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 188, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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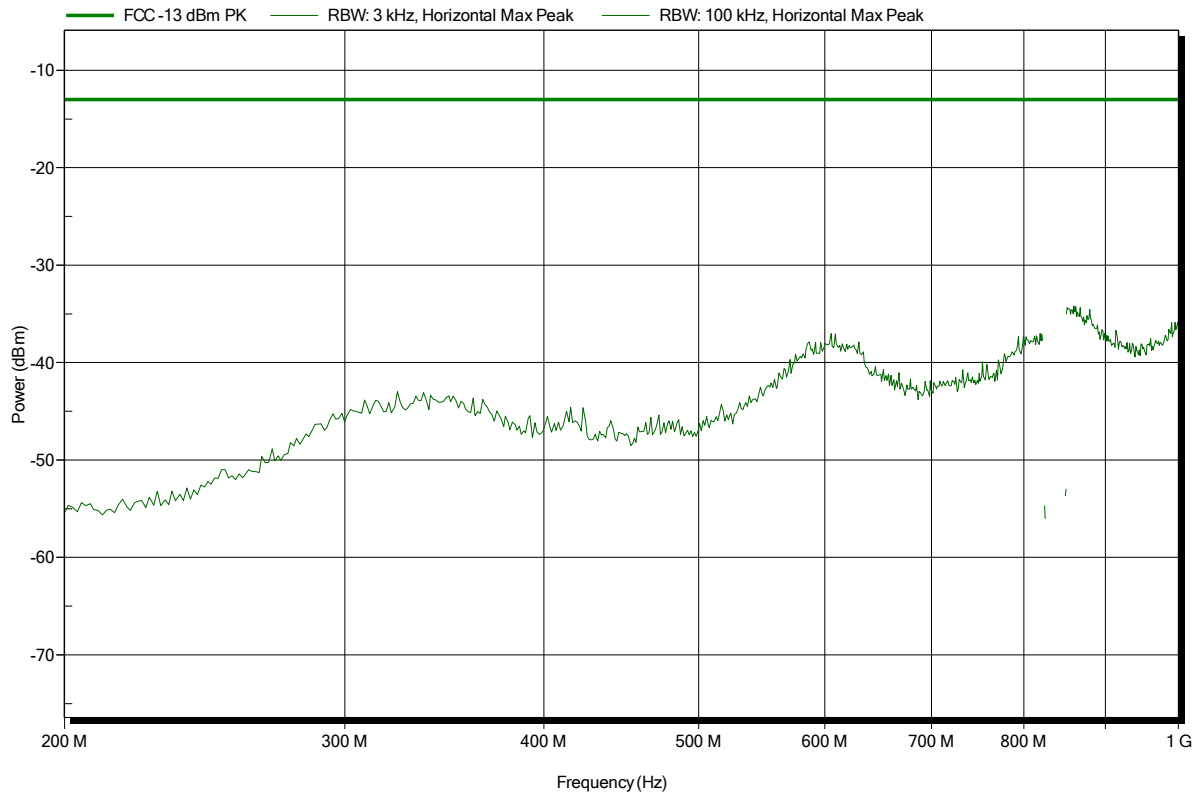


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 188, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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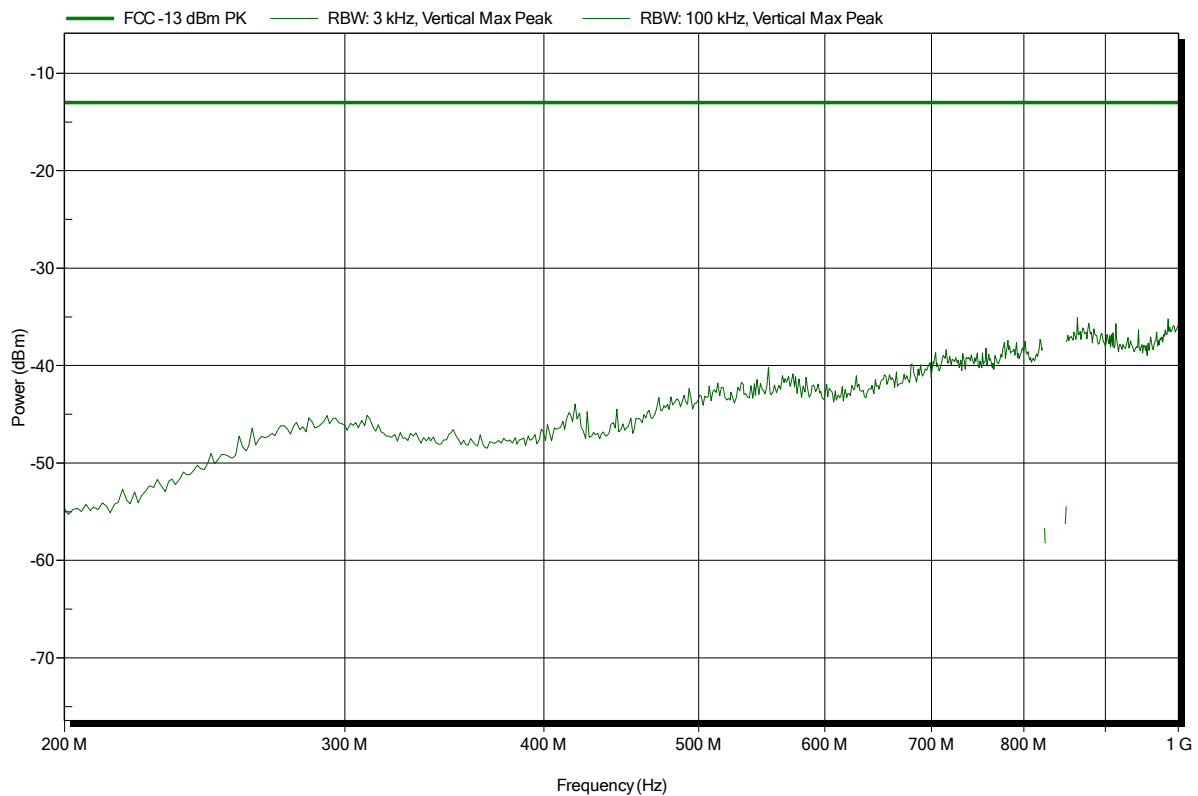


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 188, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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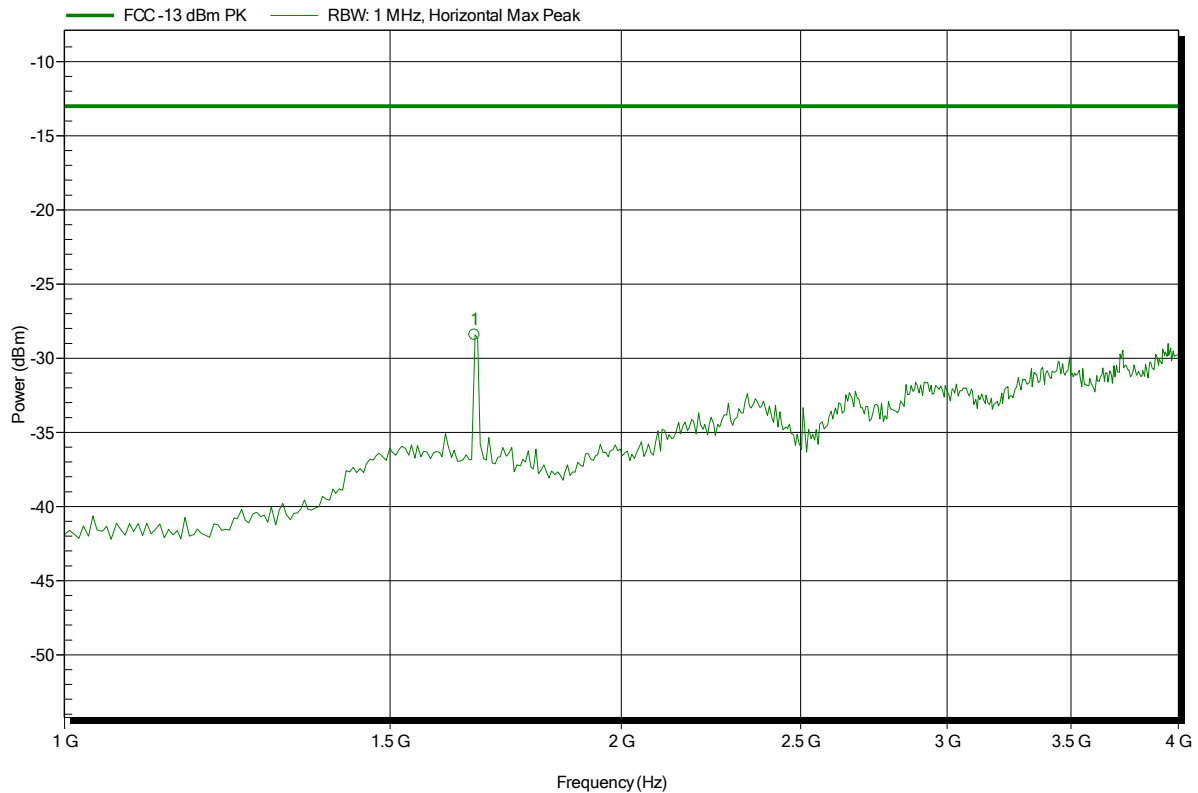


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; GPRS 850, Ch. 188, 1 uplink slot, Gamma 3
 Test Date: 2014-08-04
 Note: EUT vertical

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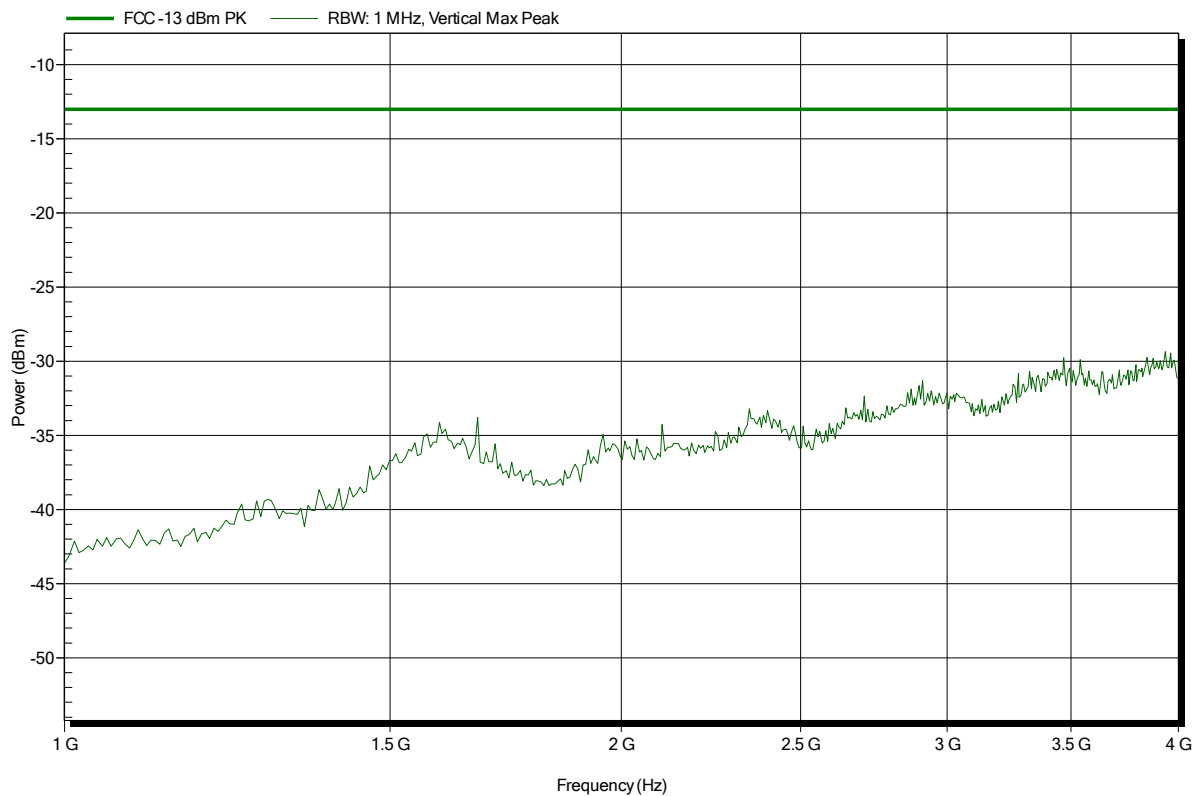
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.666 GHz	-28.4 dBm	-13 dBm	-15.41 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 188, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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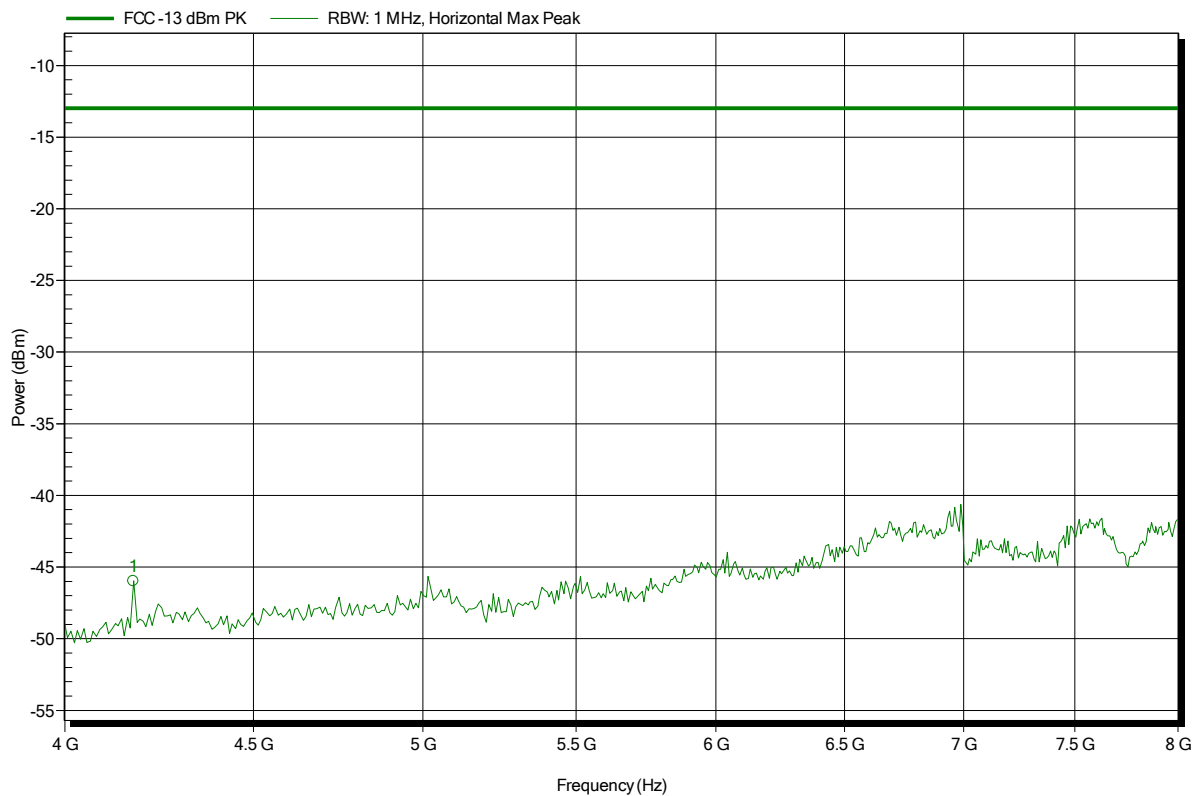


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; GPRS 850, Ch. 188, 1 uplink slot, Gamma 3
 Test Date: 2014-08-04
 Note: EUT vertical

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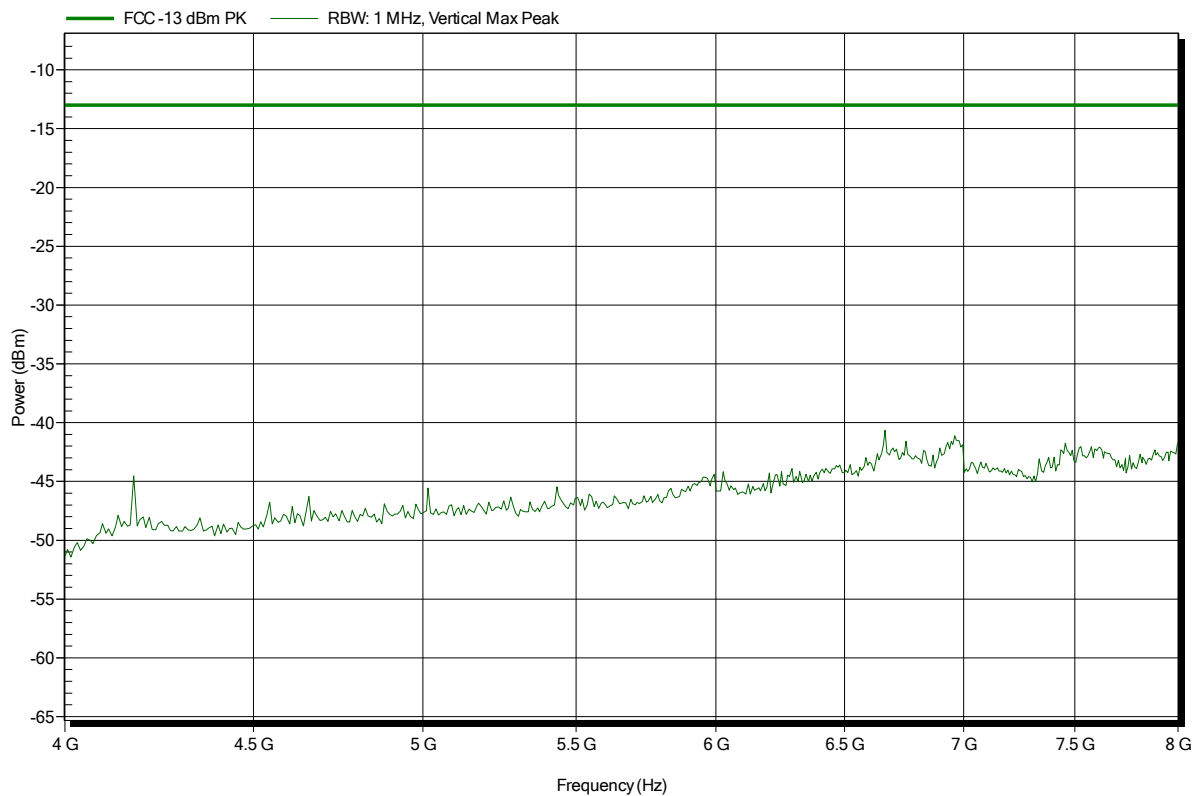
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.176 GHz	-46 dBm	-13 dBm	-32.97 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 188, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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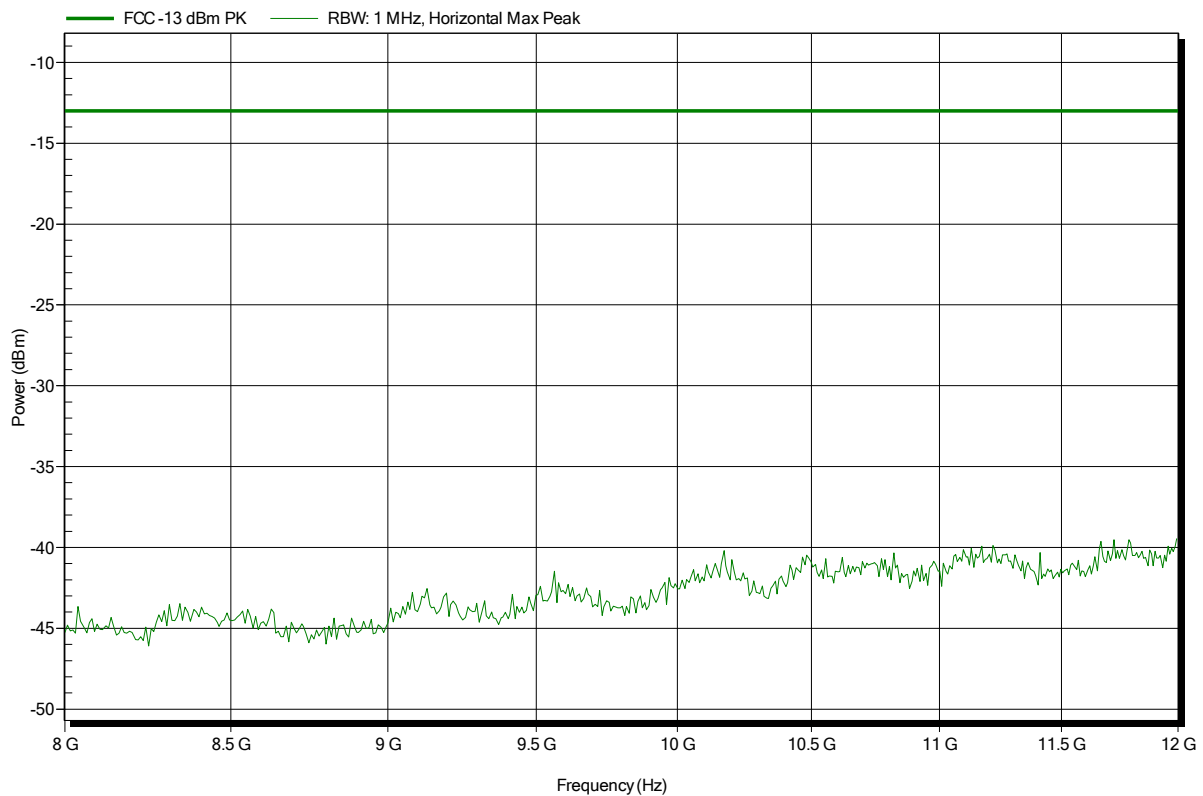


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 188, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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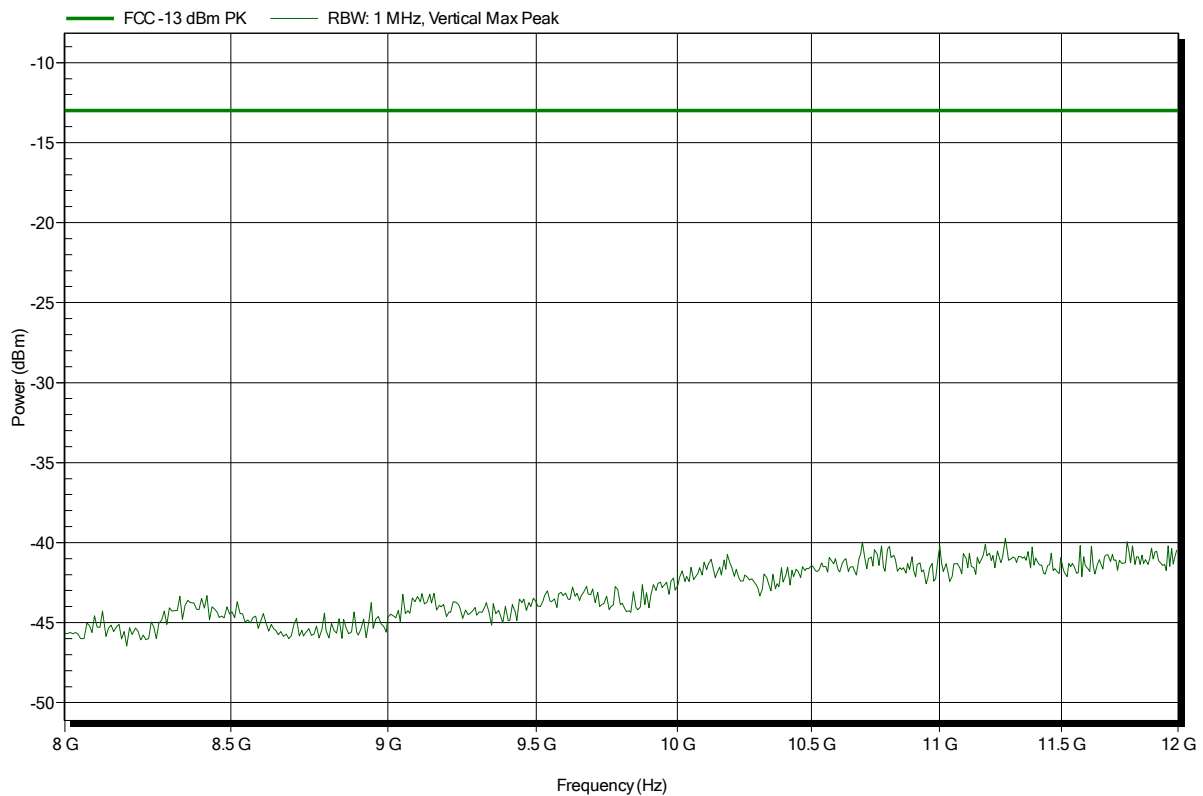


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 188, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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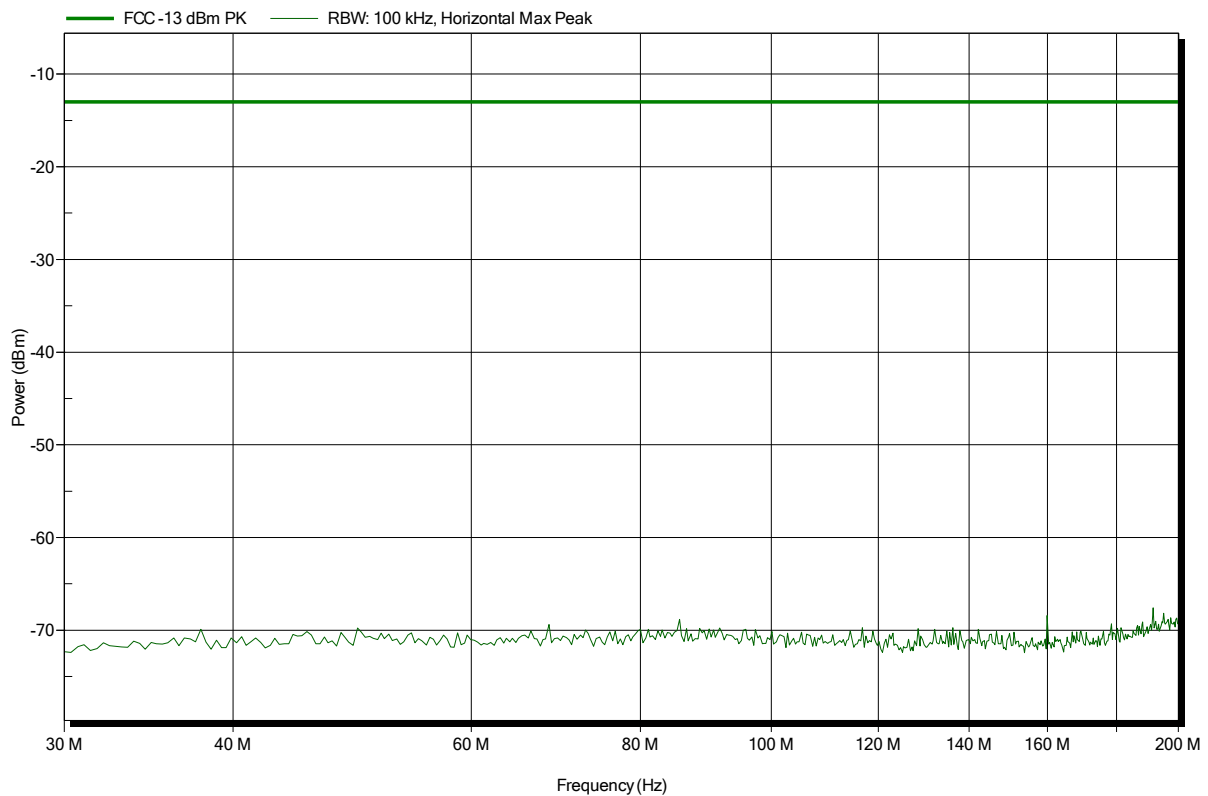


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 251, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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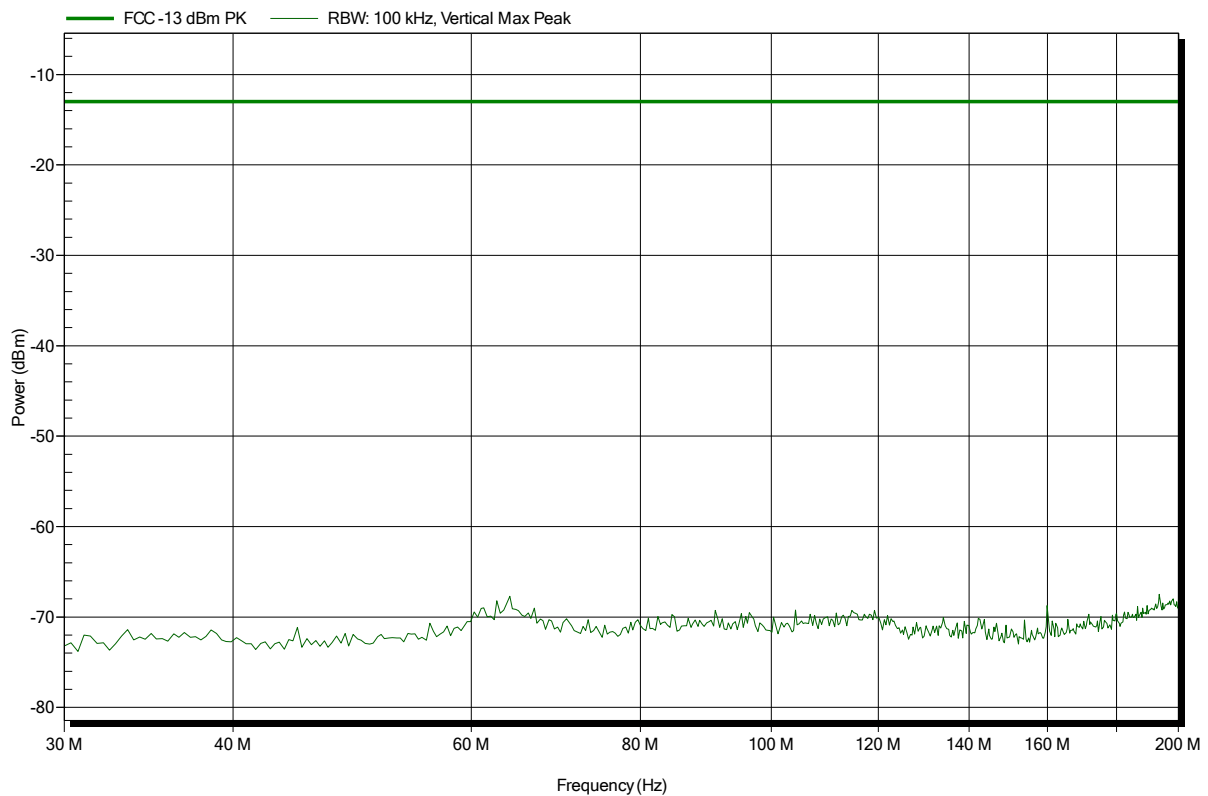


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 251, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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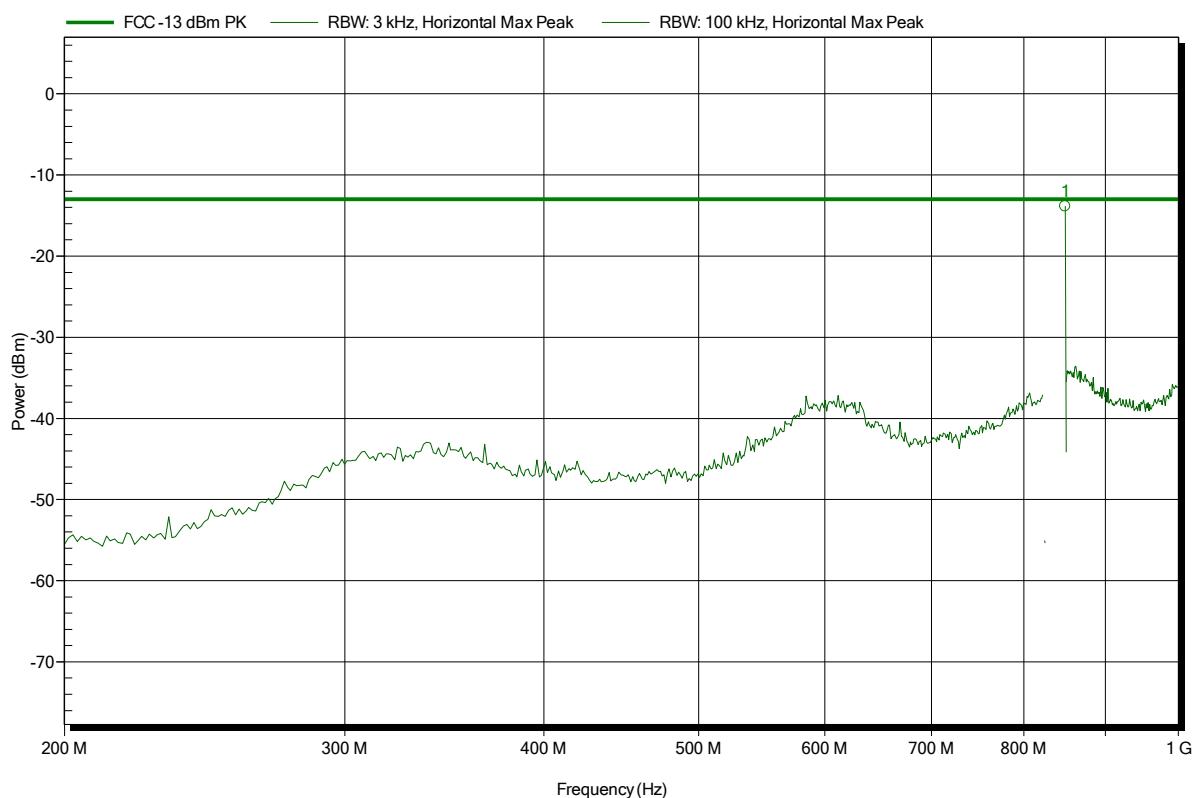


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: TX; GPRS 850, Ch. 251, 1 uplink slot, Gamma 3
 Test Date: 2014-08-04
 Note: EUT vertical

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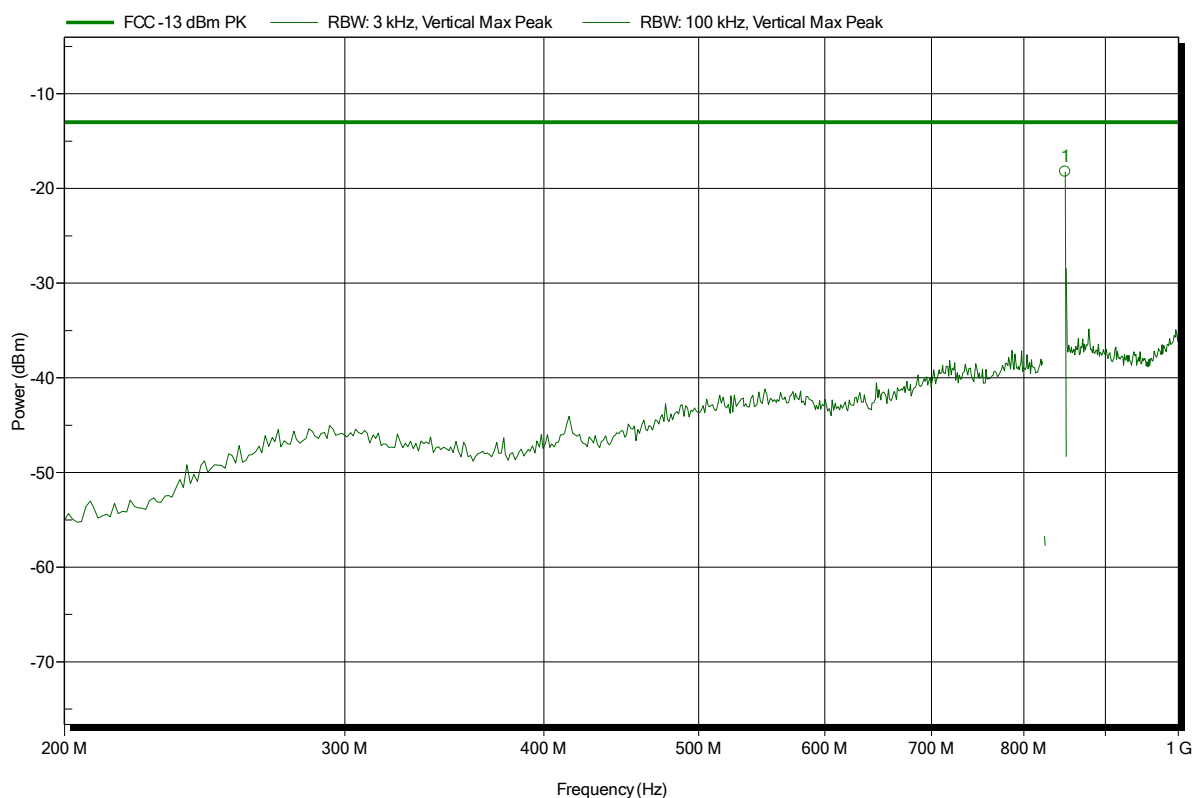
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
849.018 MHz	-13.9 dBm	-13 dBm	-0.85 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: TX; GPRS 850, Ch. 251, 1 uplink slot, Gamma 3
 Test Date: 2014-08-04
 Note: EUT vertical

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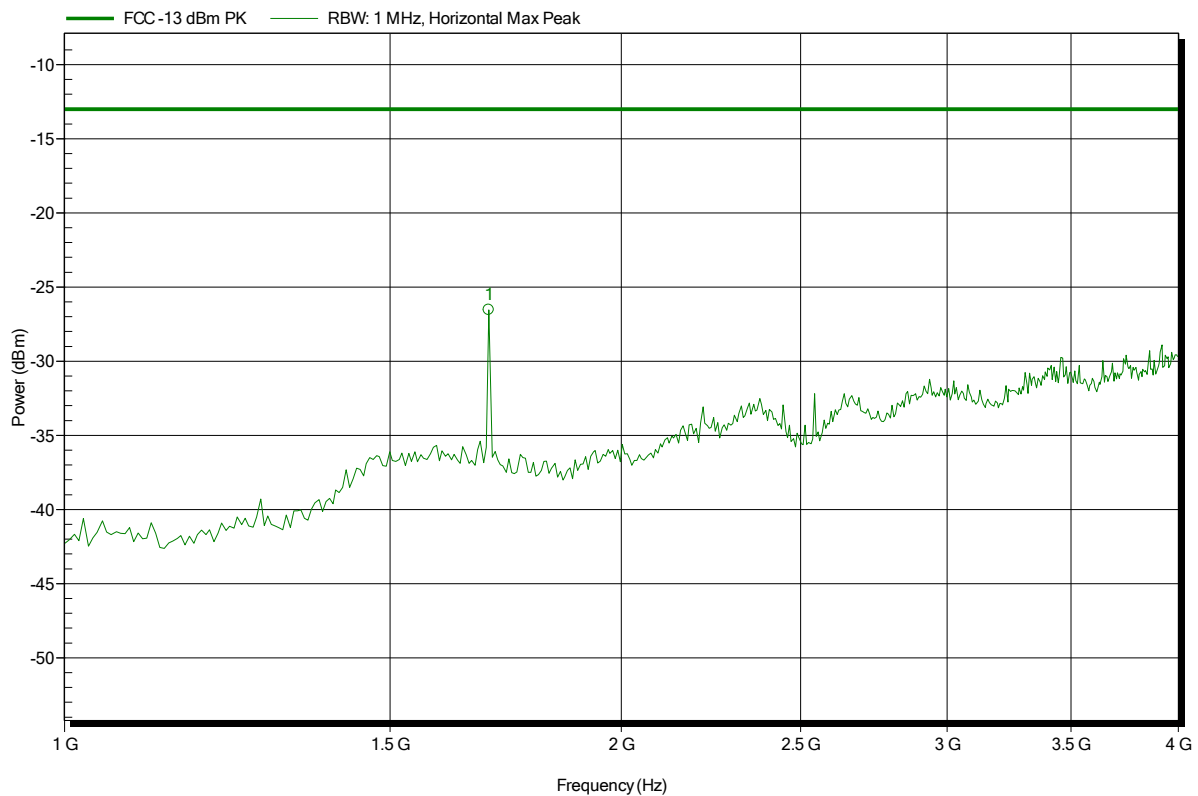
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
849.02 MHz	-18.2 dBm	-13 dBm	-5.24 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; GPRS 850, Ch. 251, 1 uplink slot, Gamma 3
 Test Date: 2014-08-04
 Note: EUT vertical

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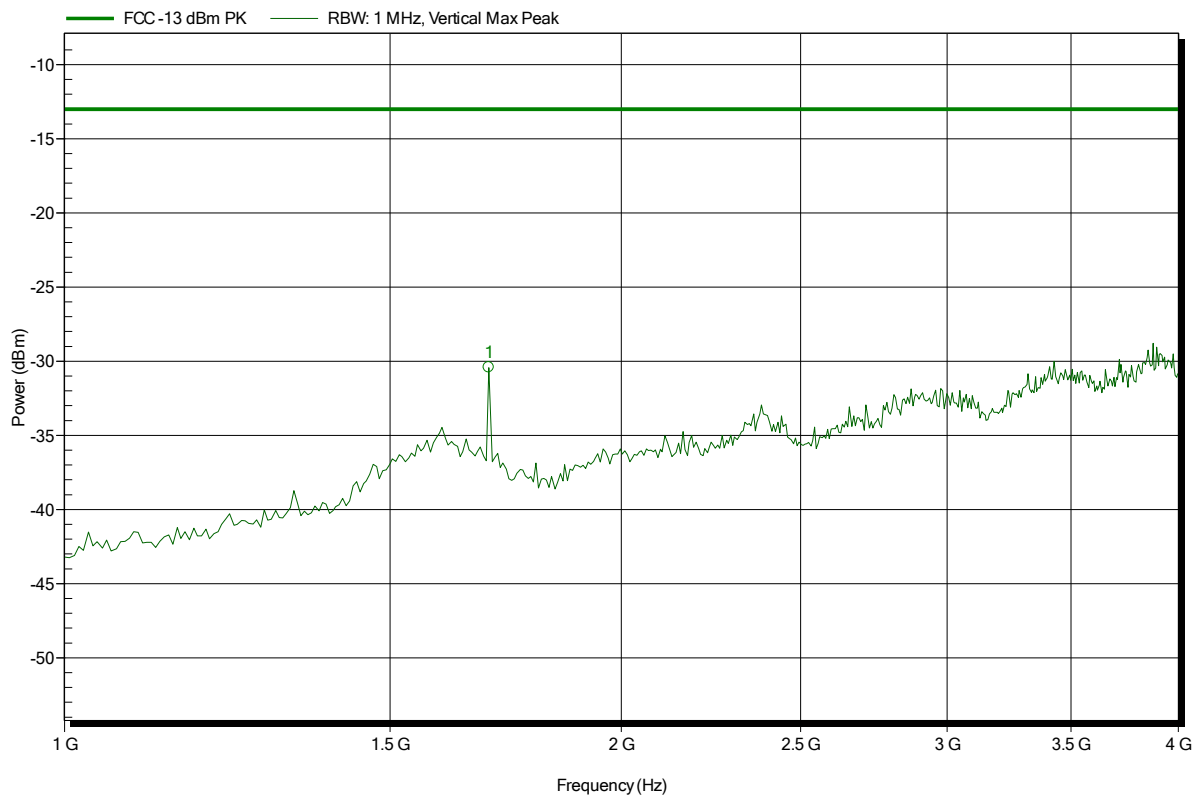
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.696 GHz	-26.5 dBm	-13 dBm	-13.54 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 251, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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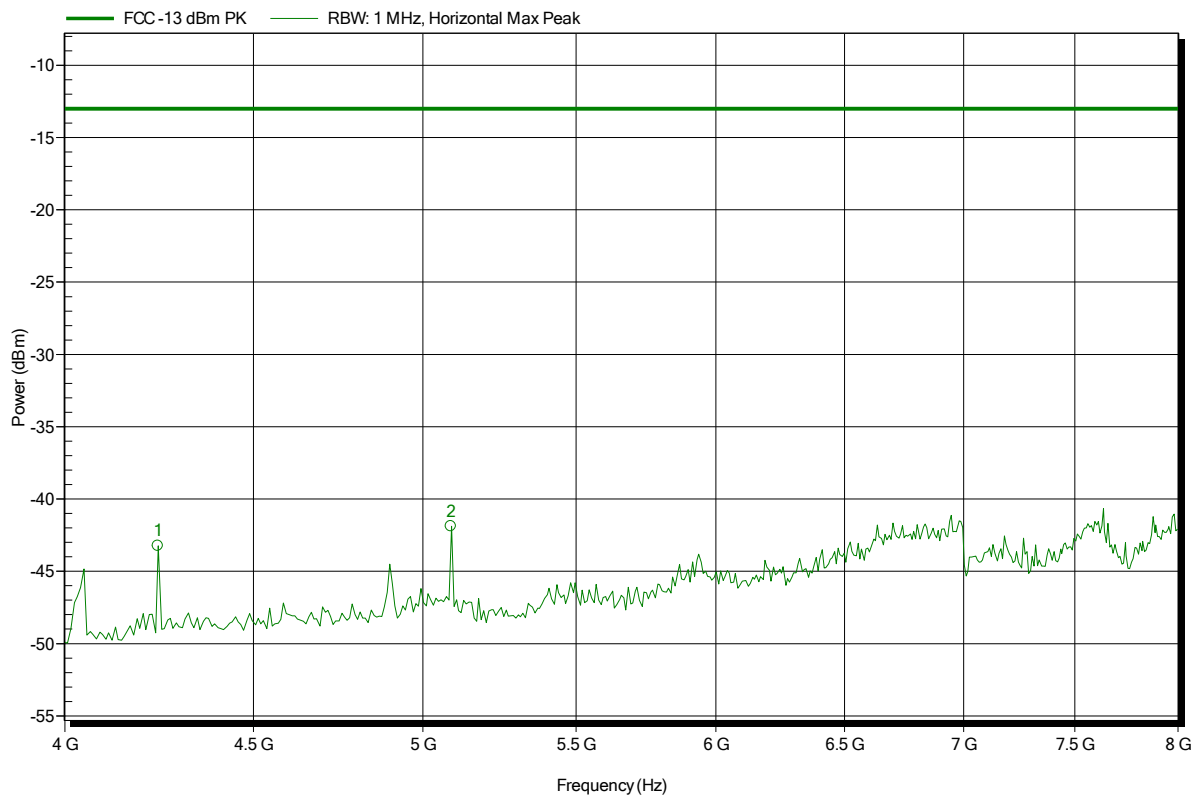
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.696 GHz	-30.4 dBm	-13 dBm	-17.42 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; GPRS 850, Ch. 251, 1 uplink slot, Gamma 3
 Test Date: 2014-08-04
 Note: EUT vertical

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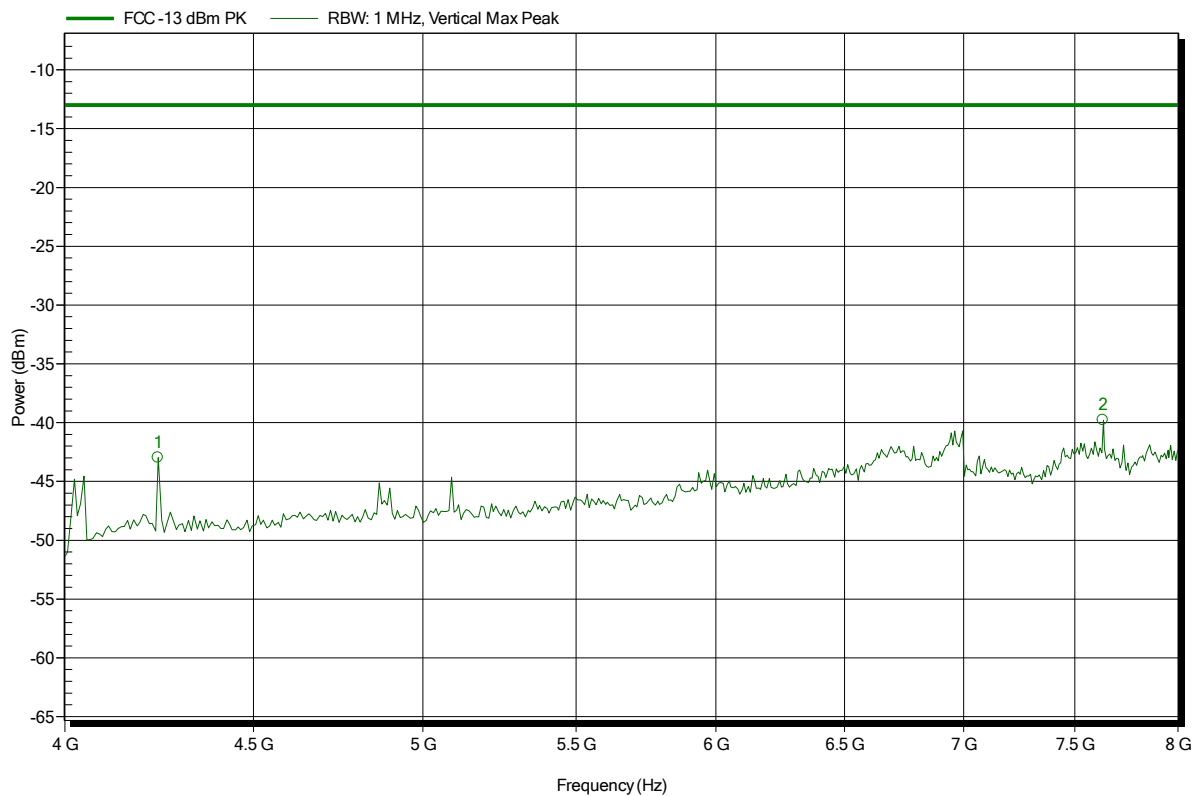
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.24 GHz	-43.2 dBm	-13 dBm	-30.25 dB	Pass
5.088 GHz	-41.9 dBm	-13 dBm	-28.88 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; GPRS 850, Ch. 251, 1 uplink slot, Gamma 3
 Test Date: 2014-08-04
 Note: EUT vertical

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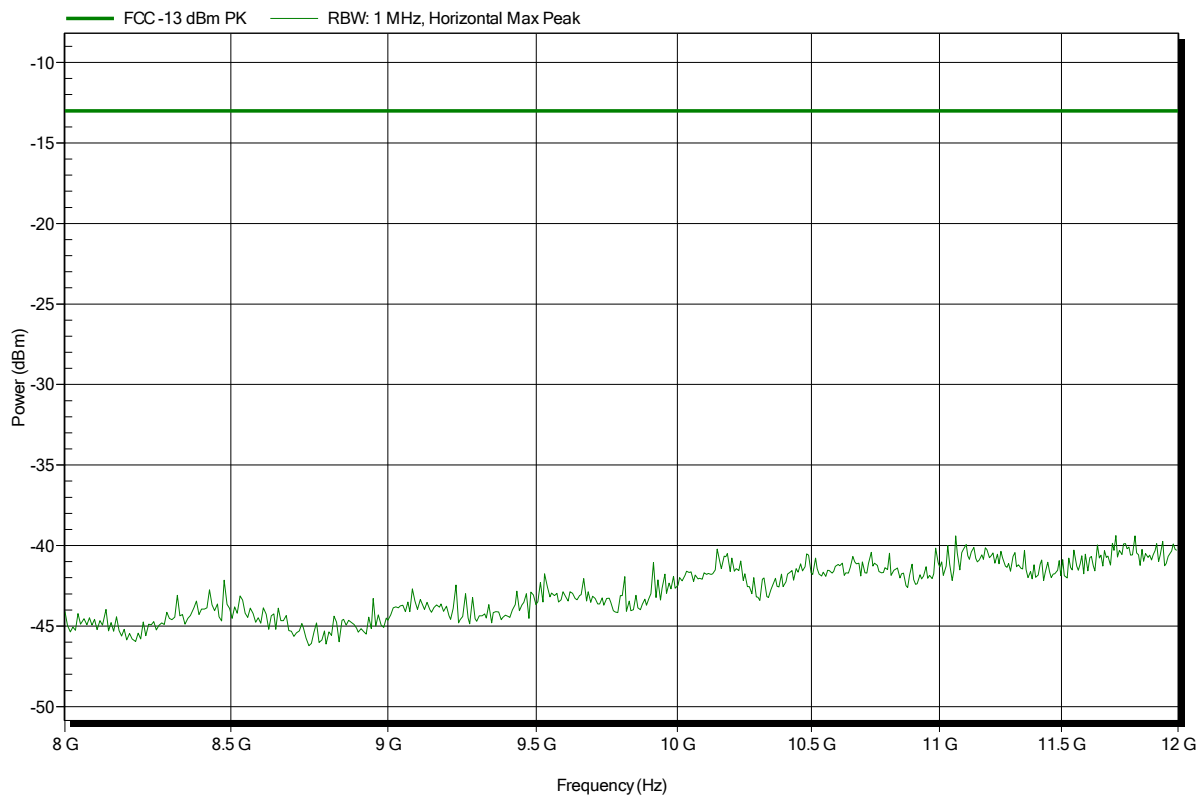
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.24 GHz	-43 dBm	-13 dBm	-29.96 dB	Pass
7.632 GHz	-39.8 dBm	-13 dBm	-26.76 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 850, Ch. 251, 1 uplink slot, Gamma 3
Test Date:	2014-08-04
Note:	EUT vertical

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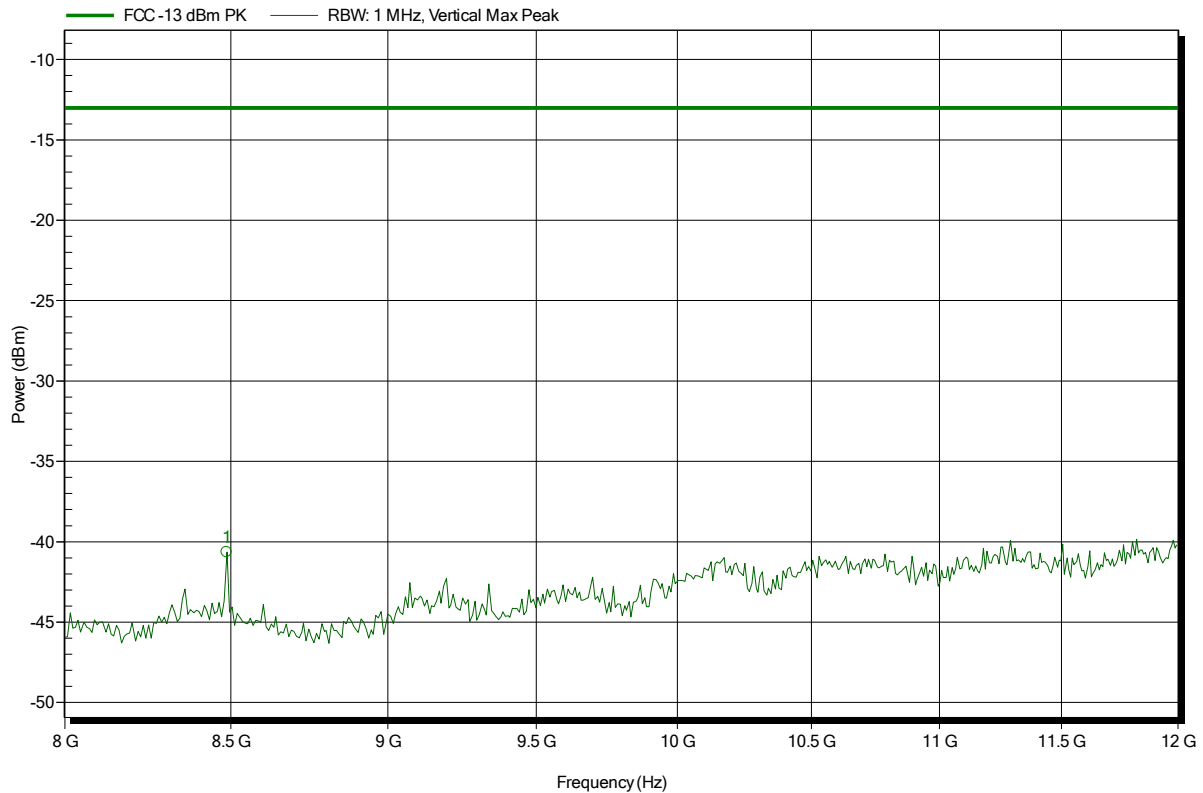


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; GPRS 850, Ch. 251, 1 uplink slot, Gamma 3
 Test Date: 2014-08-04
 Note: EUT vertical

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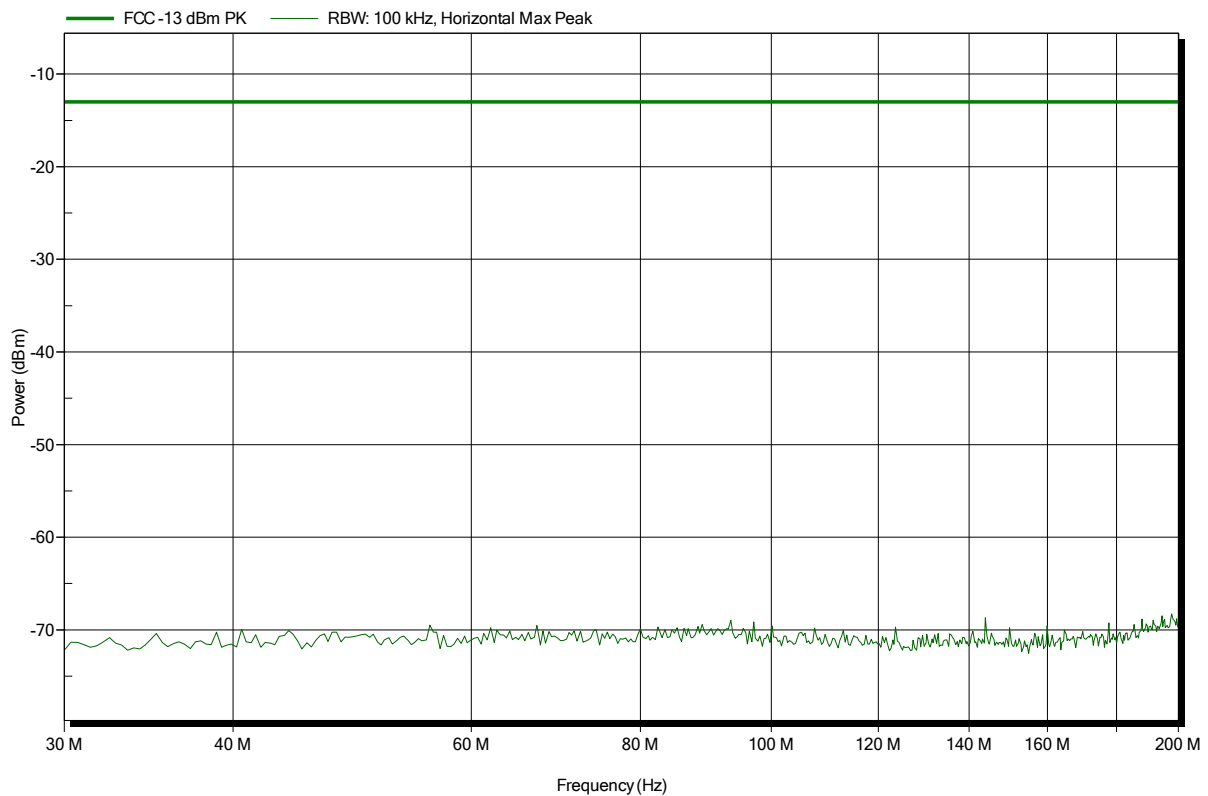
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
8.488 GHz	-40.6 dBm	-13 dBm	-27.65 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 128; 1 uplink slot; Gamma 6
Test Date:	2014-08-04
Note:	EUT vertical

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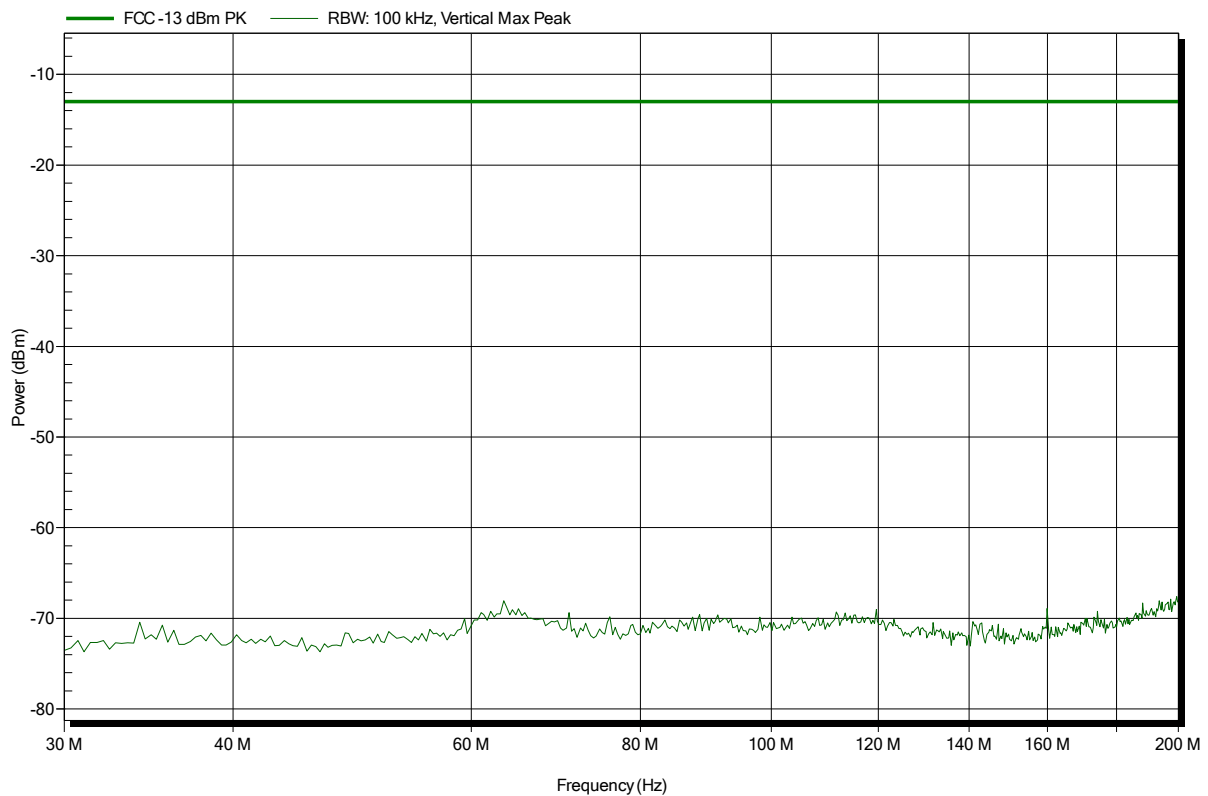


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 128; 1 uplink slot; Gamma 6
Test Date:	2014-08-04
Note:	EUT vertical

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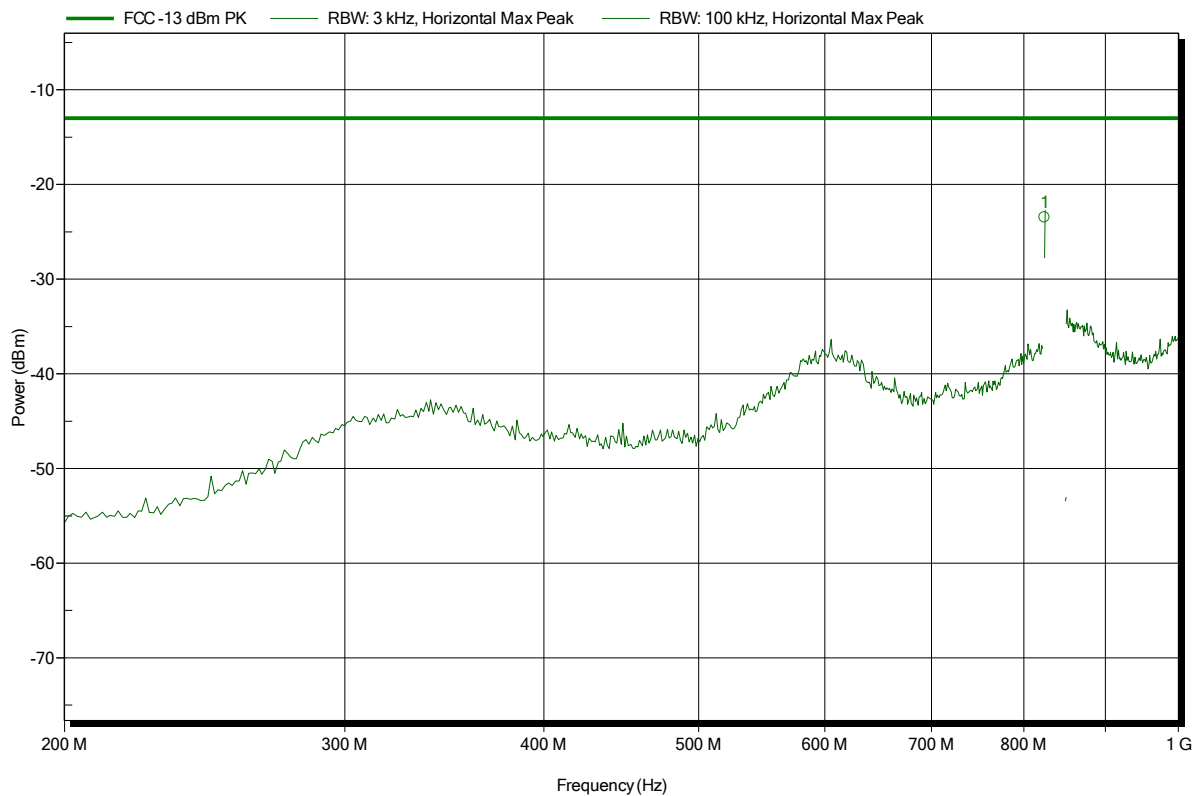


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 128; 1 uplink slot; Gamma 6
 Test Date: 2014-08-04
 Note: EUT vertical

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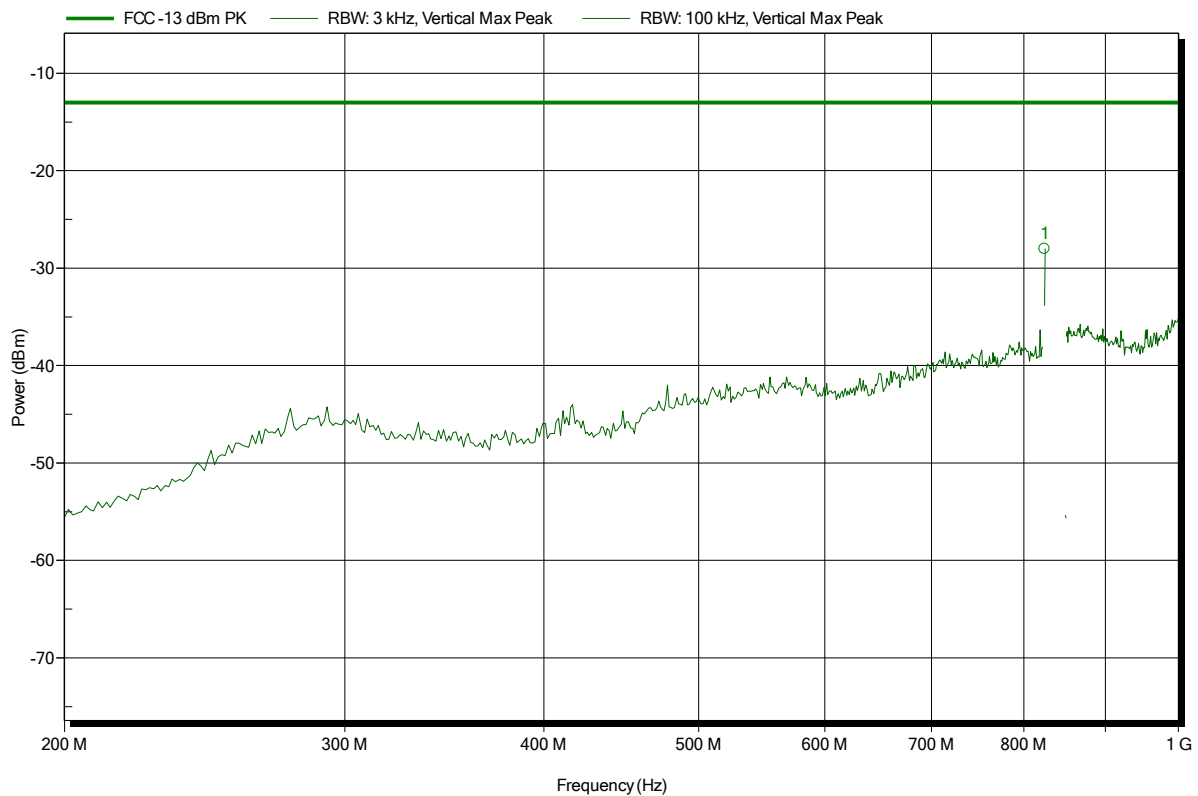
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
823.994 MHz	-23.5 dBm	-13 dBm	-10.48 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 128; 1 uplink slot; Gamma 6
 Test Date: 2014-08-04
 Note: EUT vertical

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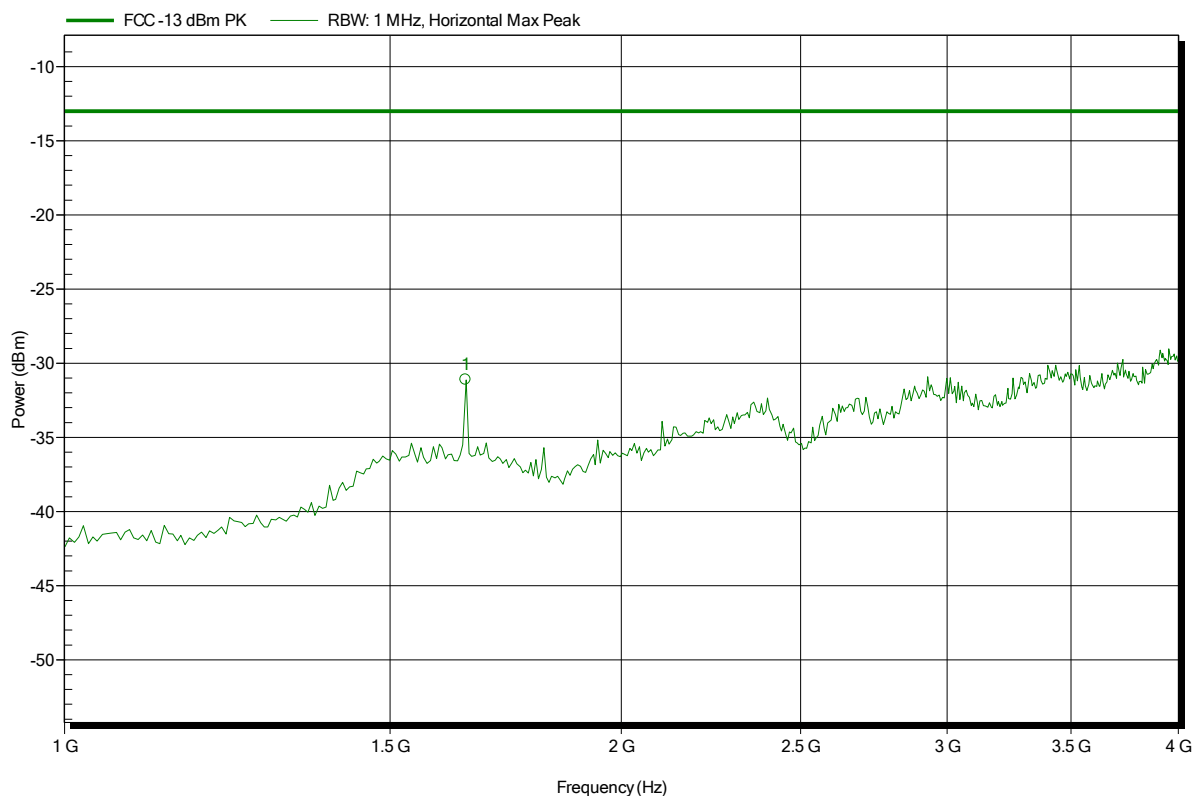
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
823.988 MHz	-28 dBm	-13 dBm	-15.02 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 128; 1 uplink slot; Gamma 6
 Test Date: 2014-08-05
 Note: EUT vertical

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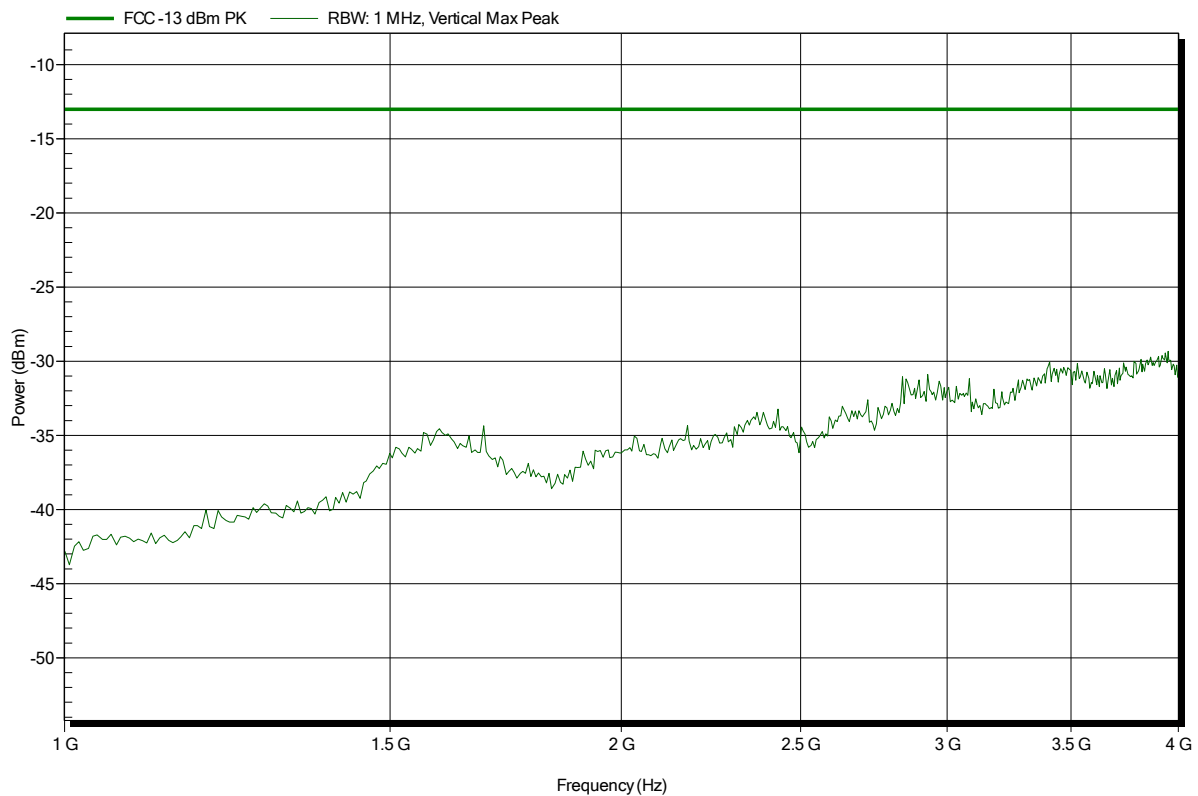
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.648 GHz	-31.1 dBm	-13 dBm	-18.11 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 128; 1 uplink slot; Gamma 6
Test Date:	2014-08-05
Note:	EUT vertical

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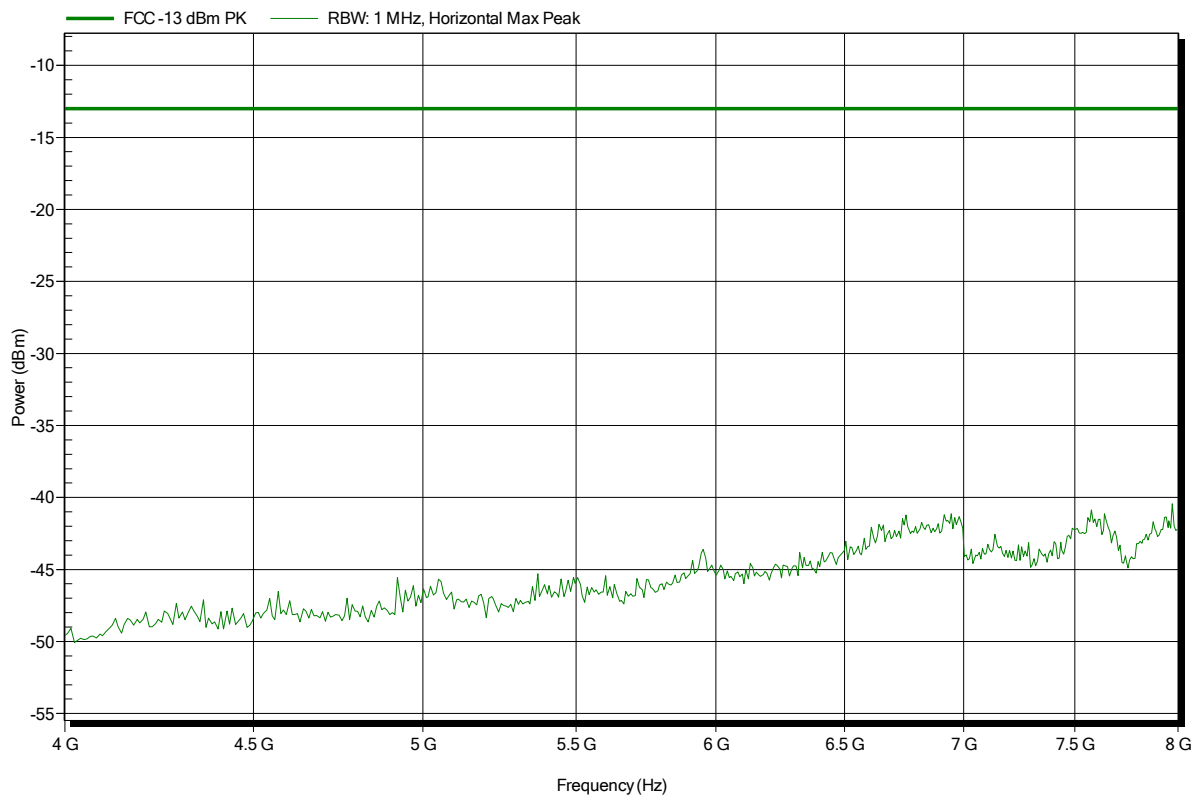


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 128; 1 uplink slot; Gamma 6
Test Date:	2014-08-05
Note:	EUT vertical

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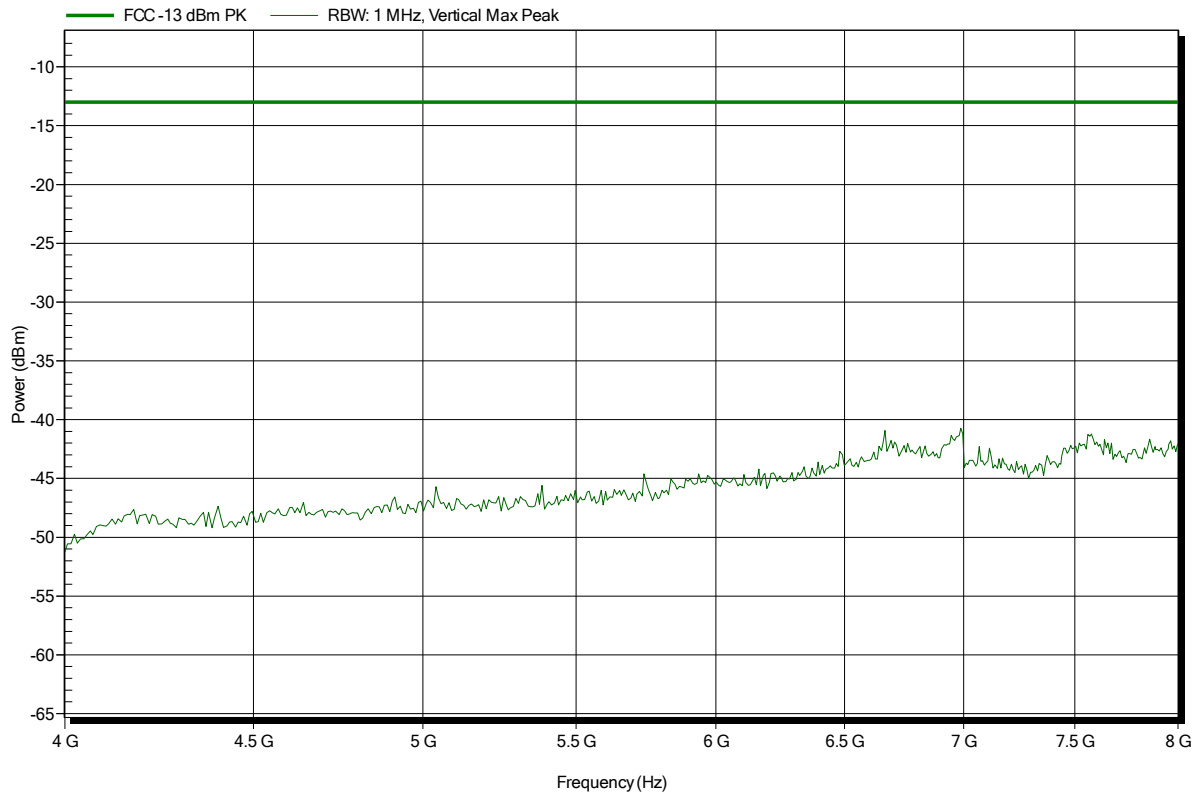


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 128; 1 uplink slot; Gamma 6
Test Date:	2014-08-05
Note:	EUT vertical

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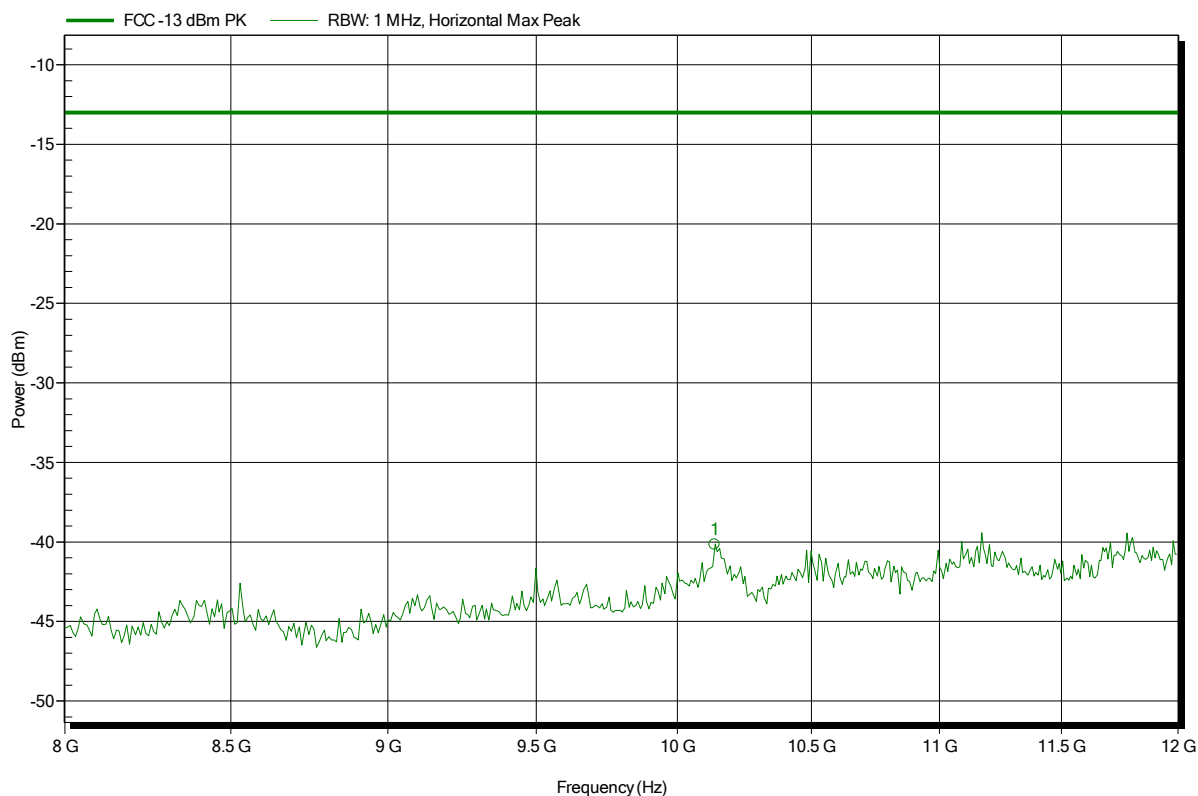


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 128; 1 uplink slot; Gamma 6
 Test Date: 2014-08-05
 Note: EUT vertical

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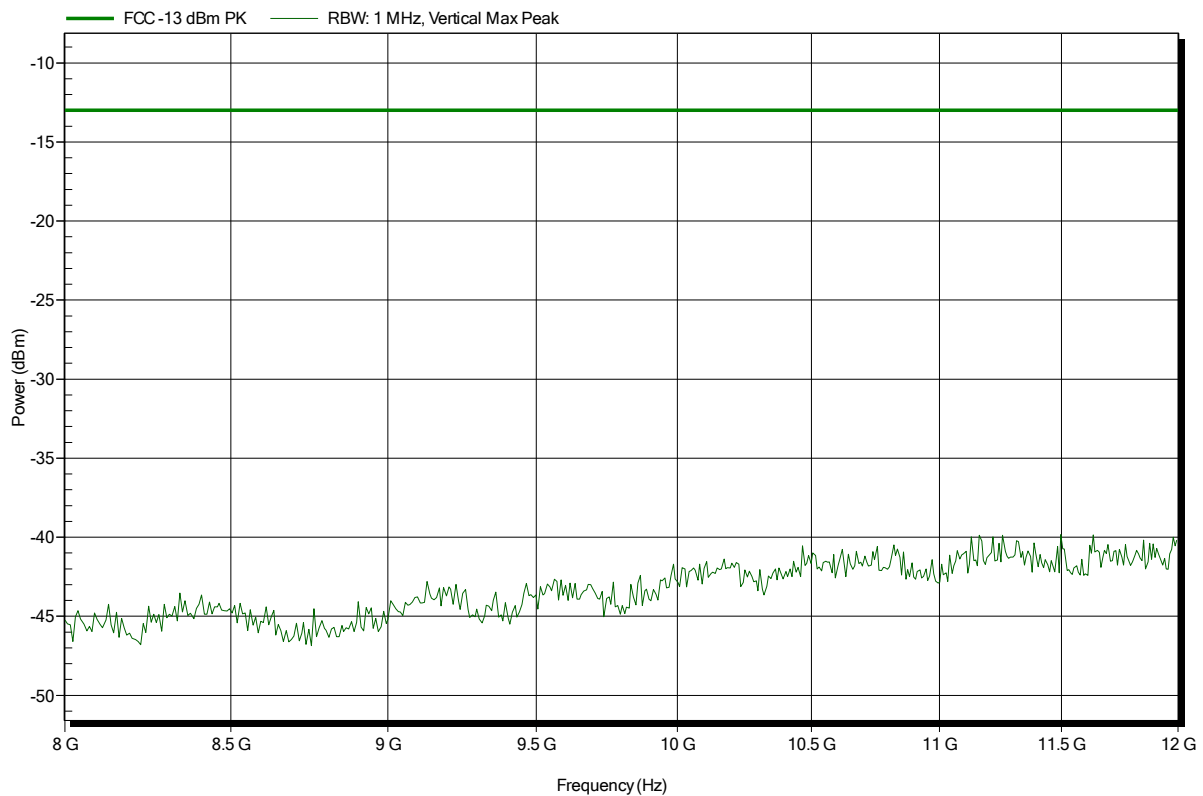
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
10.136 GHz	-40.2 dBm	-13 dBm	-27.16 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 128; 1 uplink slot; Gamma 6
Test Date:	2014-08-05
Note:	EUT vertical

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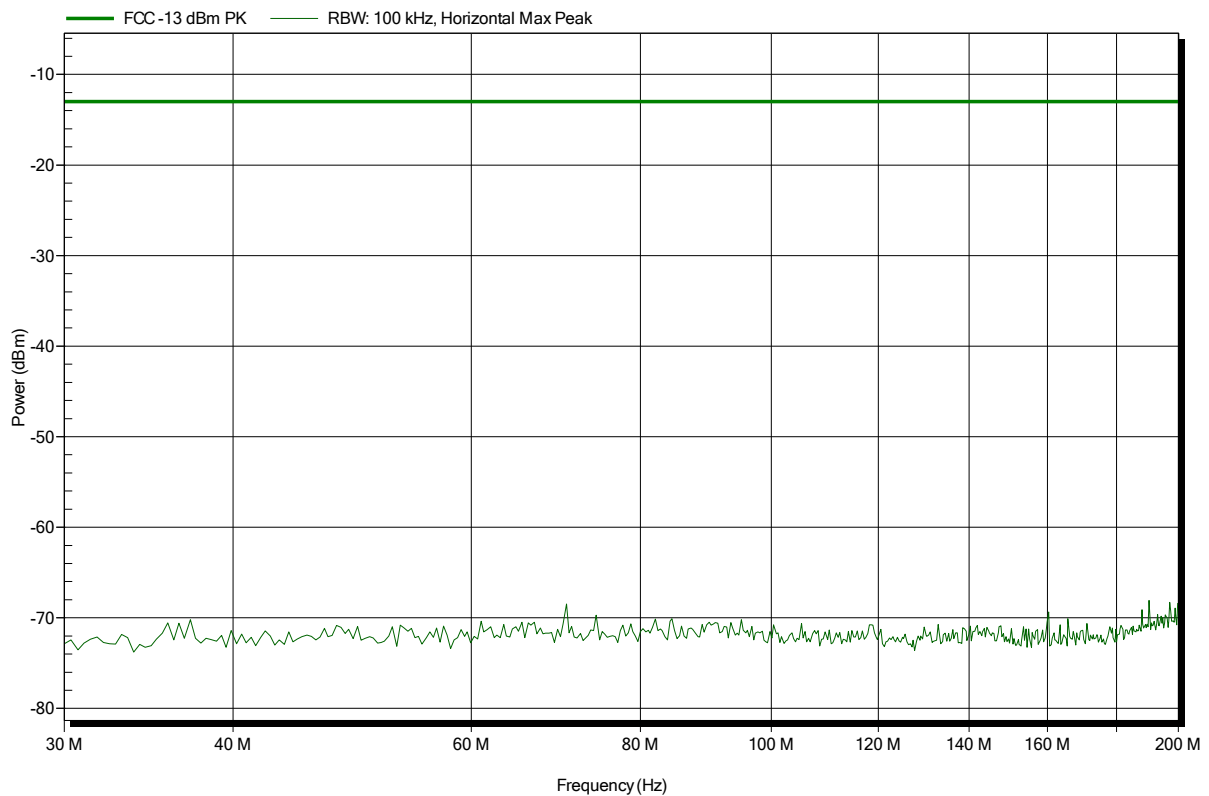


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 188; 1 uplink slot; Gamma 6
Test Date:	2014-08-04
Note:	EUT vertical

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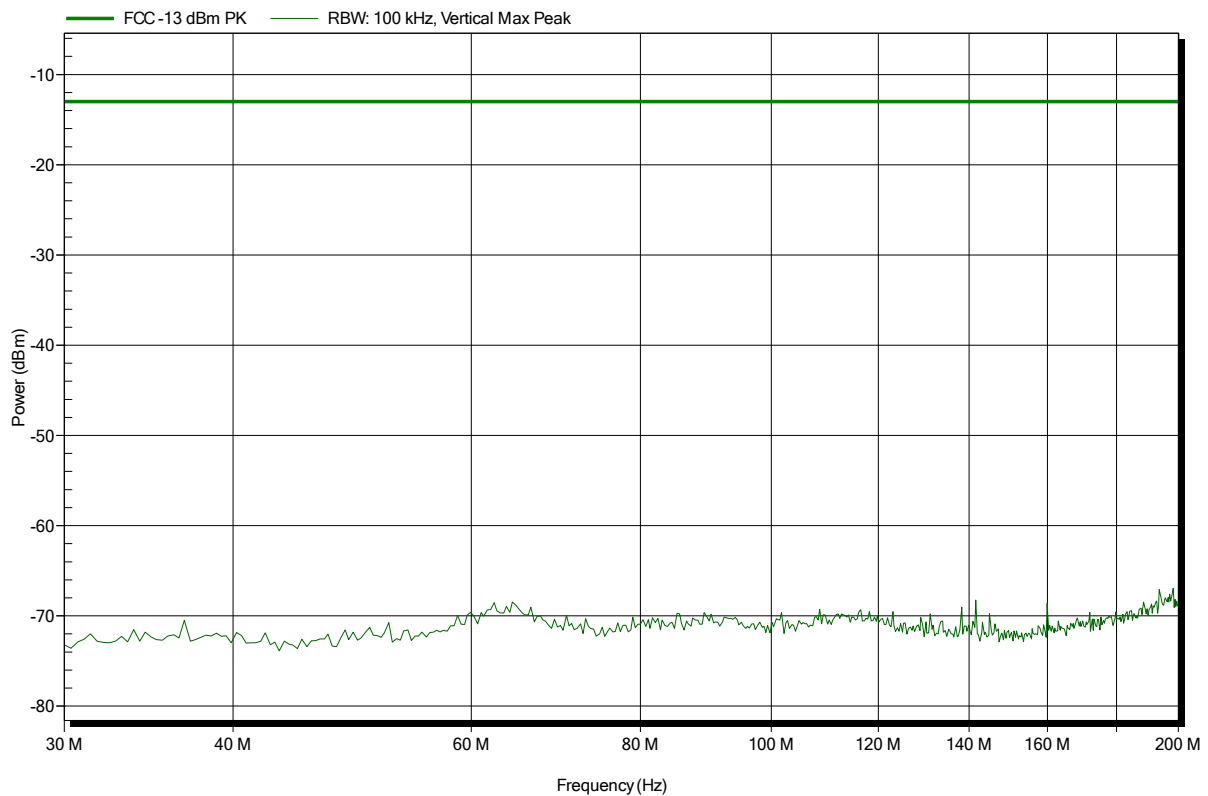


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 188; 1 uplink slot; Gamma 6
Test Date:	2014-08-04
Note:	EUT vertical

Index 2

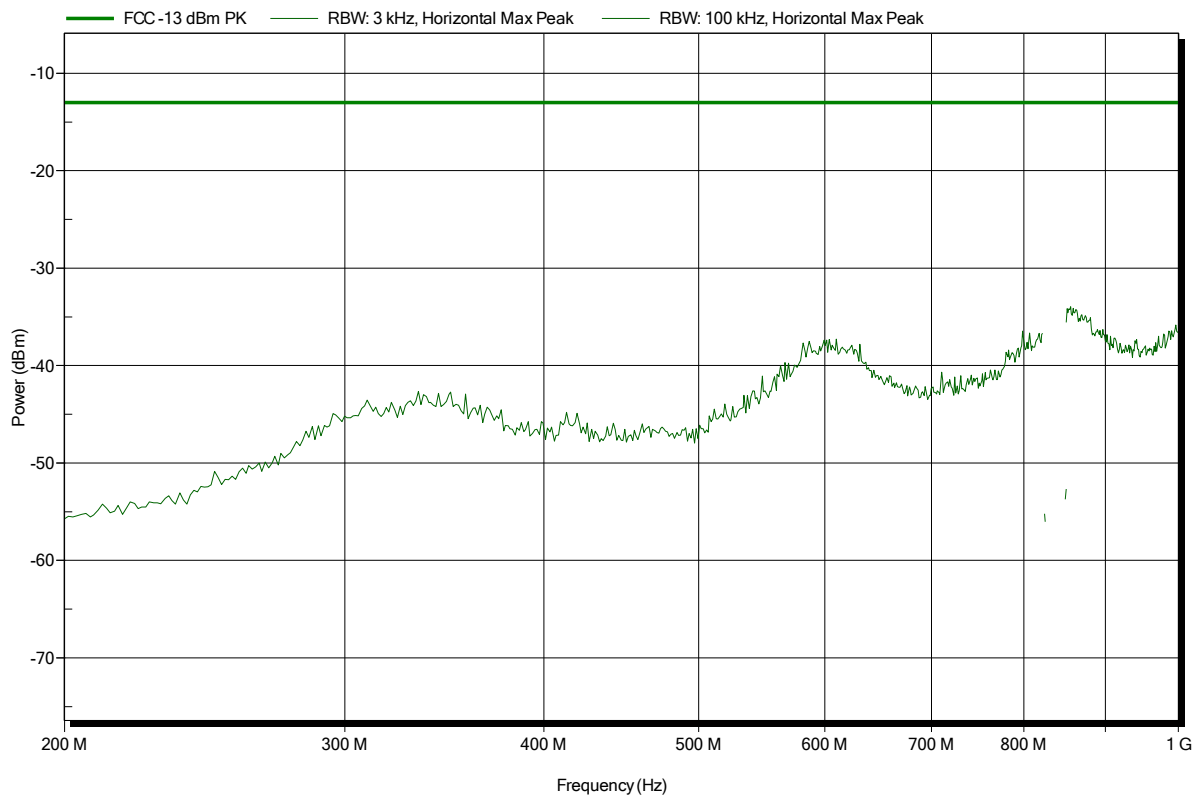


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 188; 1 uplink slot; Gamma 6
Test Date:	2014-08-04
Note:	EUT vertical

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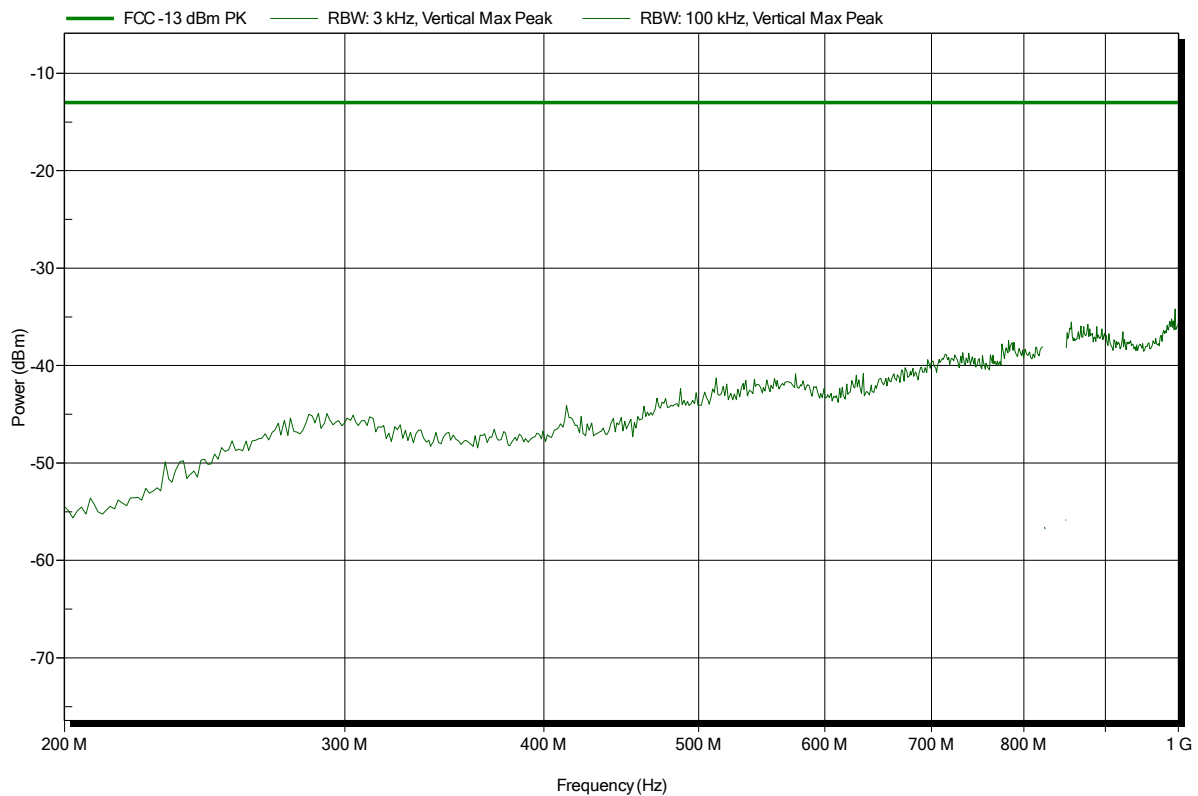


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 188; 1 uplink slot; Gamma 6
Test Date:	2014-08-04
Note:	EUT vertical

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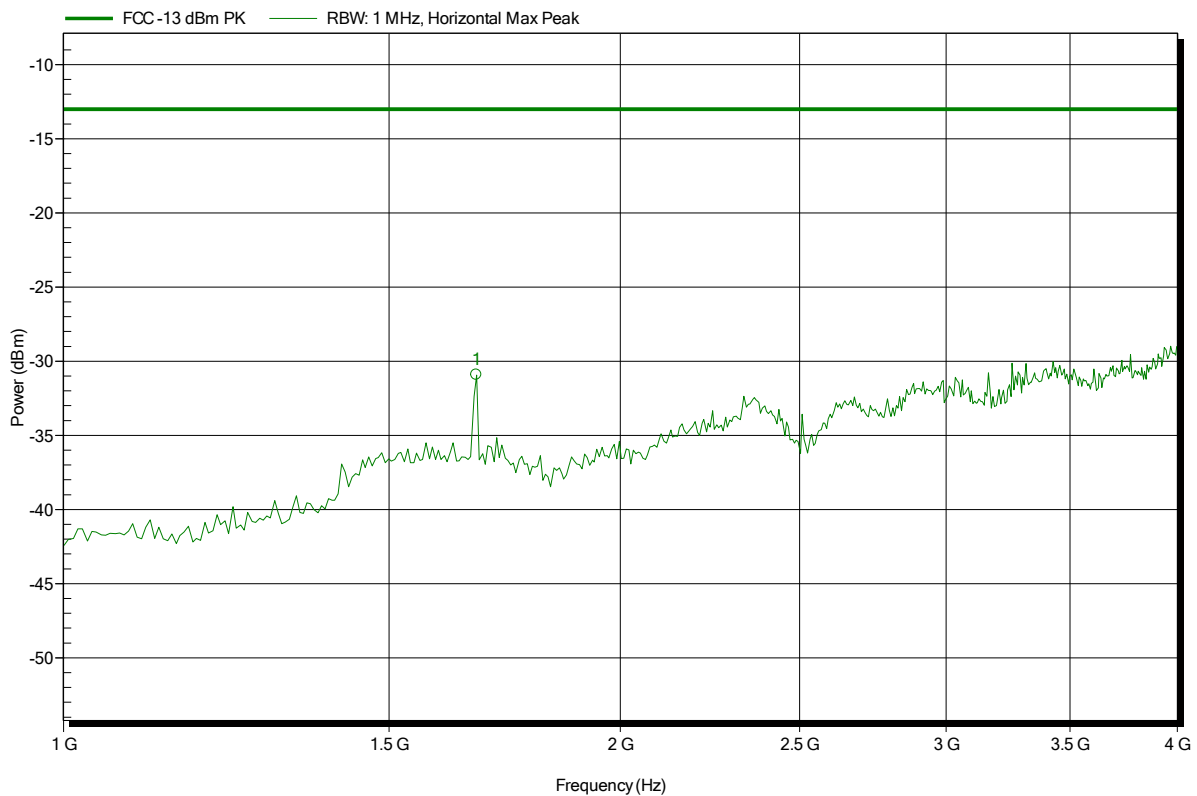


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 188; 1 uplink slot; Gamma 6
 Test Date: 2014-08-05
 Note: EUT vertical

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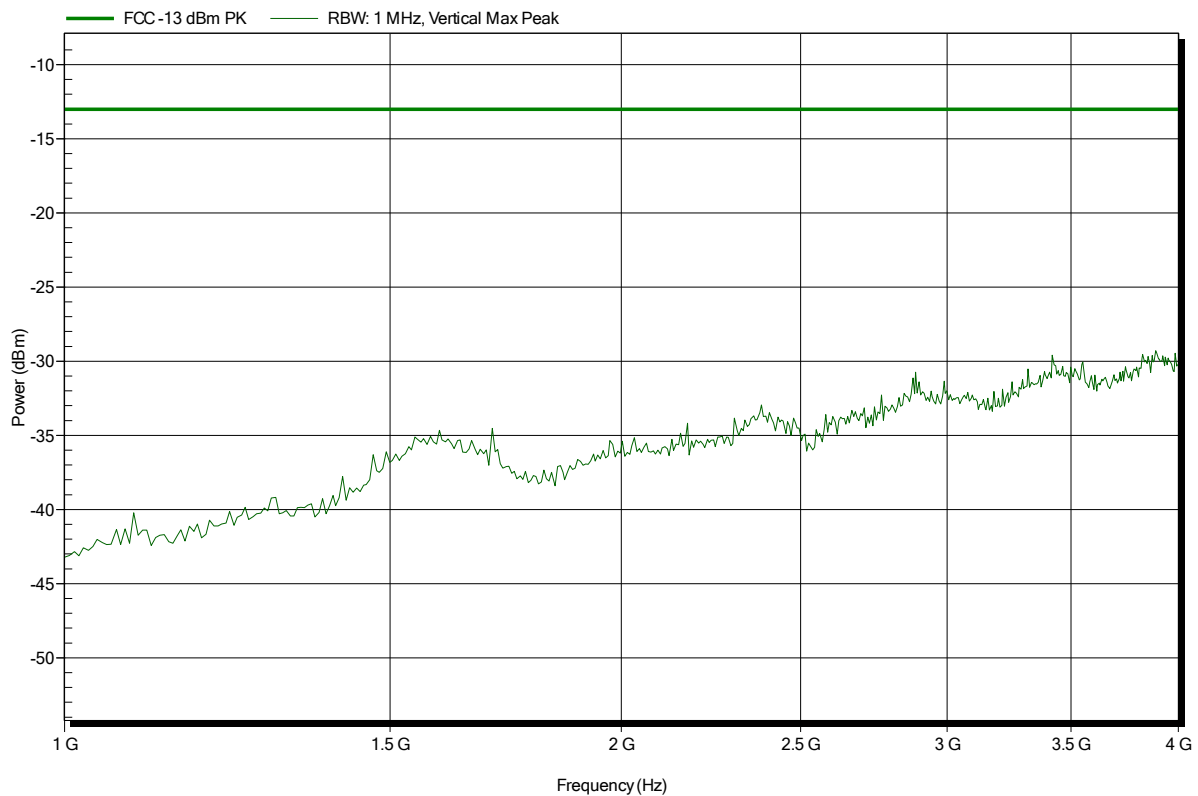
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.672 GHz	-30.9 dBm	-13 dBm	-17.92 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 188; 1 uplink slot; Gamma 6
Test Date:	2014-08-05
Note:	EUT vertical

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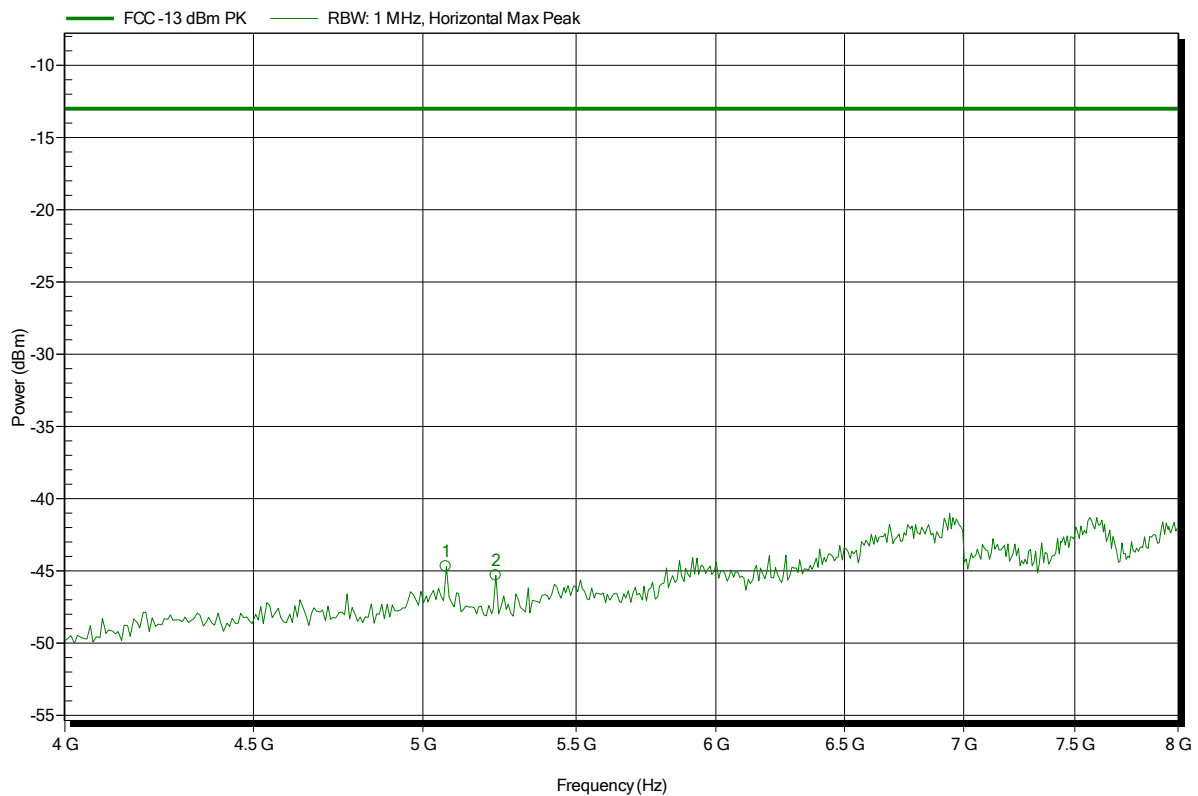


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 188; 1 uplink slot; Gamma 6
 Test Date: 2014-08-05
 Note: EUT vertical

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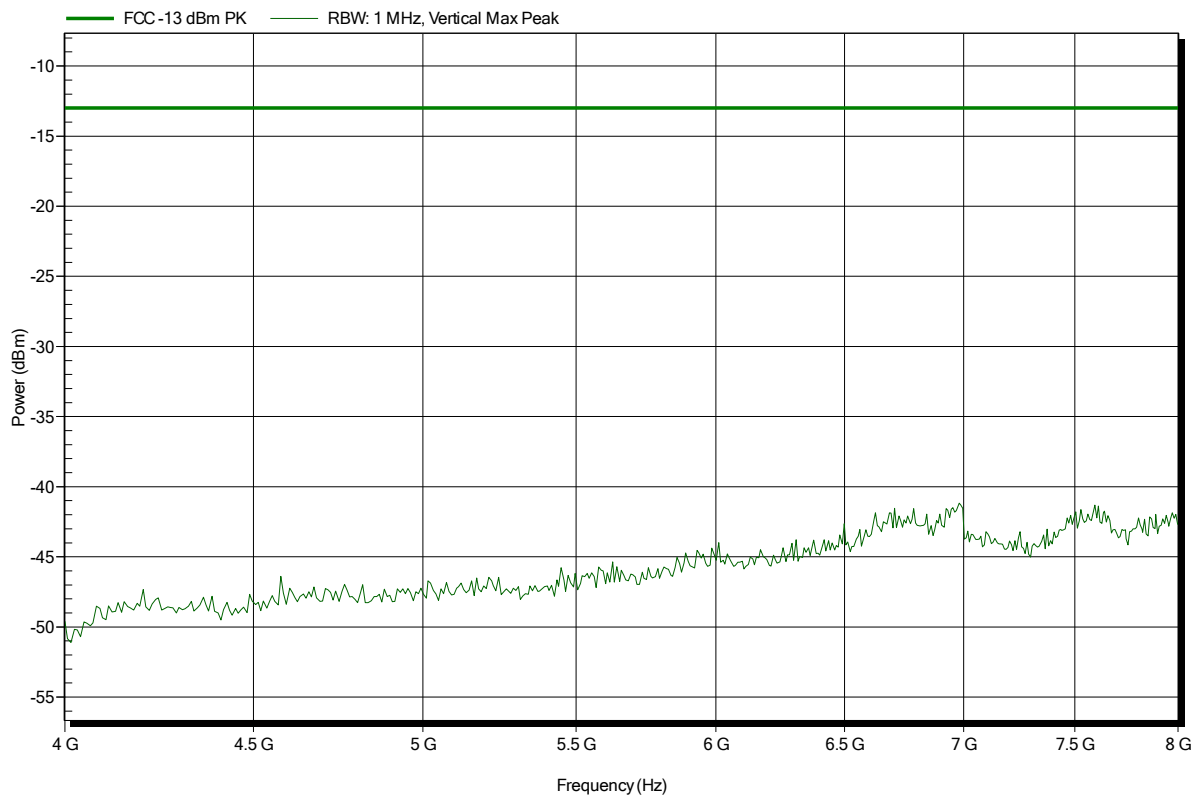
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
5.072 GHz	-44.7 dBm	-13 dBm	-31.69 dB	Pass
5.232 GHz	-45.3 dBm	-13 dBm	-32.31 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 188; 1 uplink slot; Gamma 6
Test Date:	2014-08-05
Note:	EUT vertical

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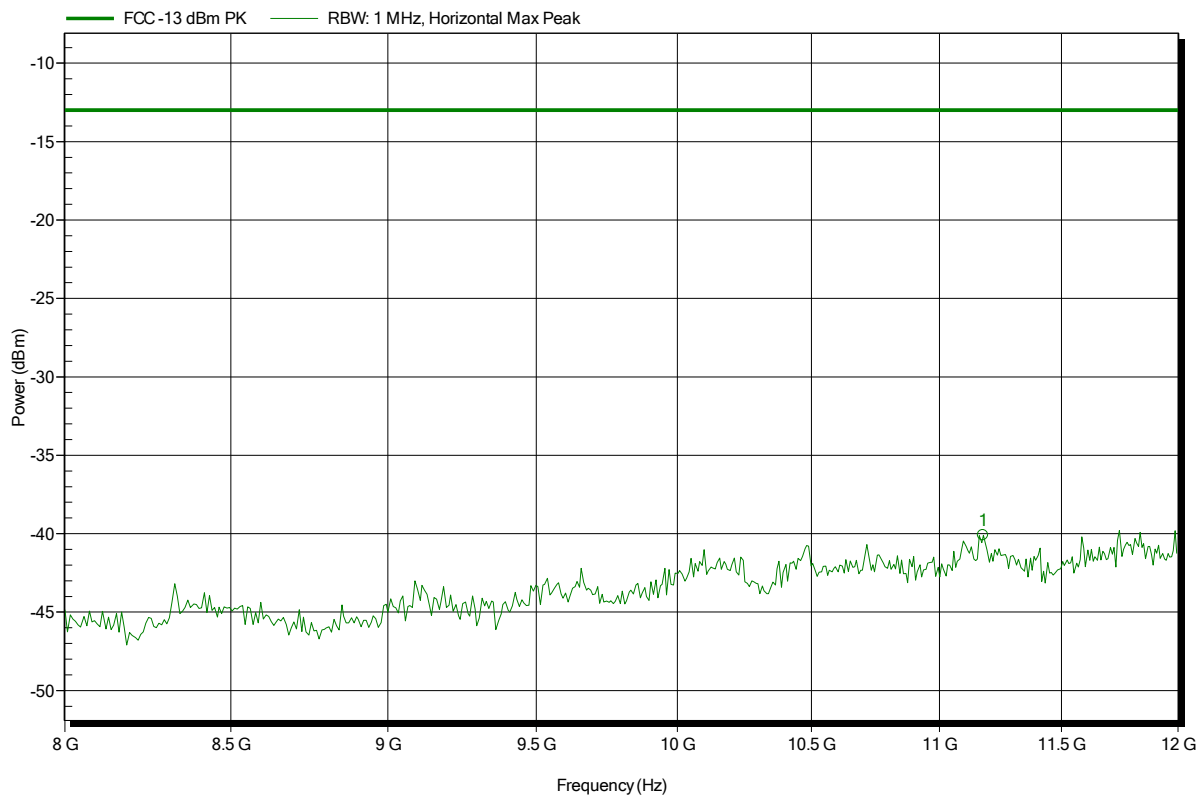


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 188; 1 uplink slot; Gamma 6
 Test Date: 2014-08-05
 Note: EUT vertical

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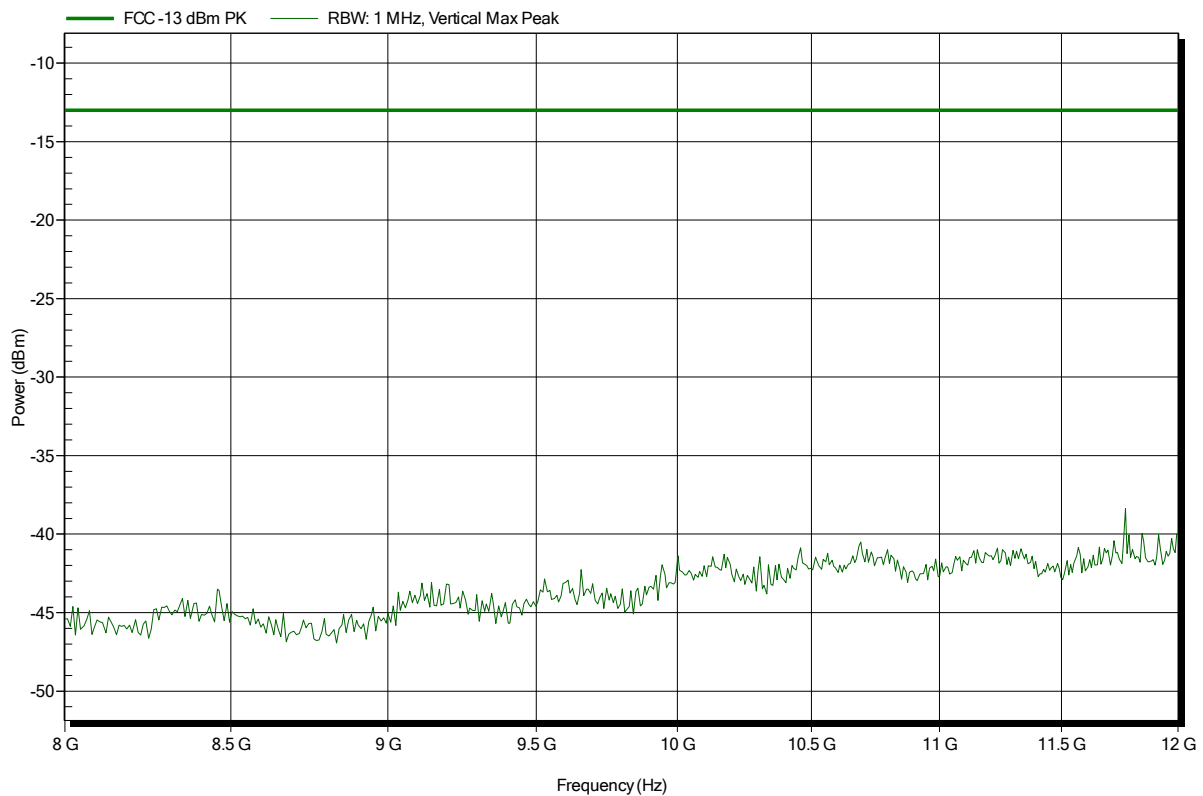
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
11.176 GHz	-40.1 dBm	-13 dBm	-27.09 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 188; 1 uplink slot; Gamma 6
Test Date:	2014-08-05
Note:	EUT vertical

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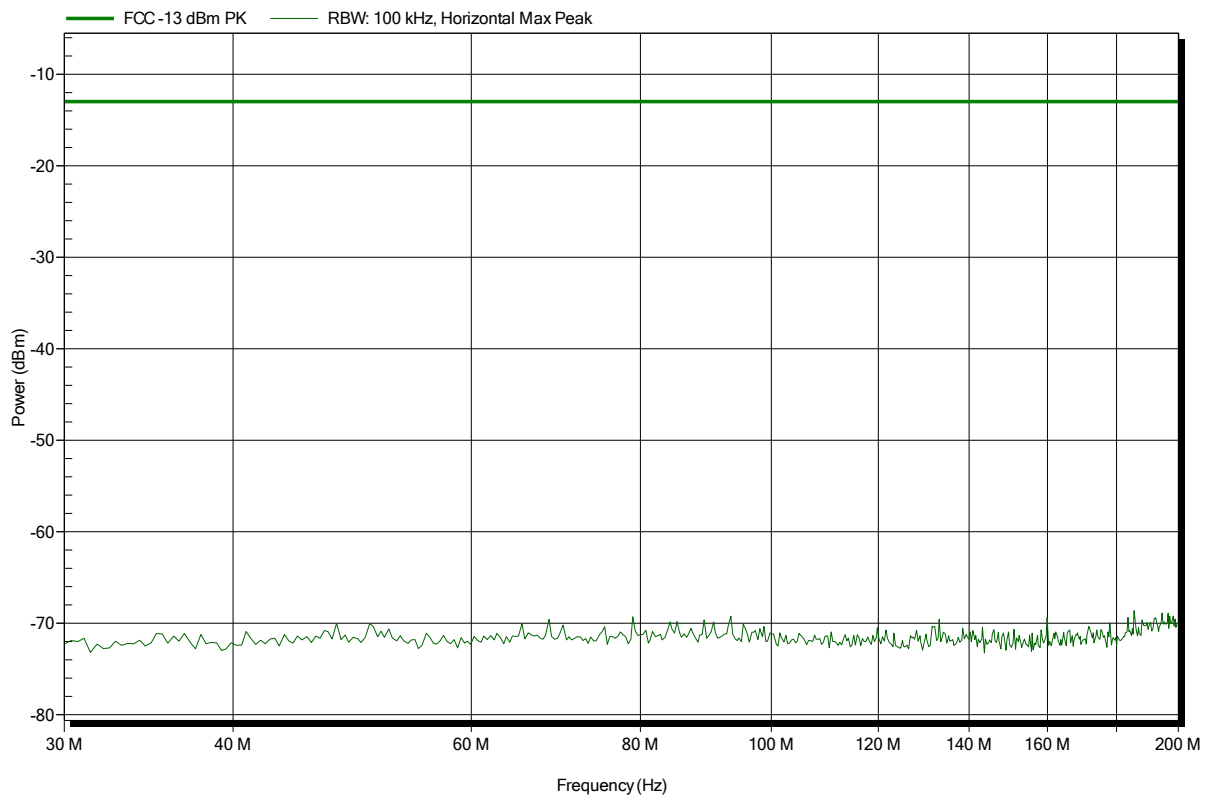


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 251; 1 uplink slot; Gamma 6
Test Date:	2014-08-04
Note:	EUT vertical

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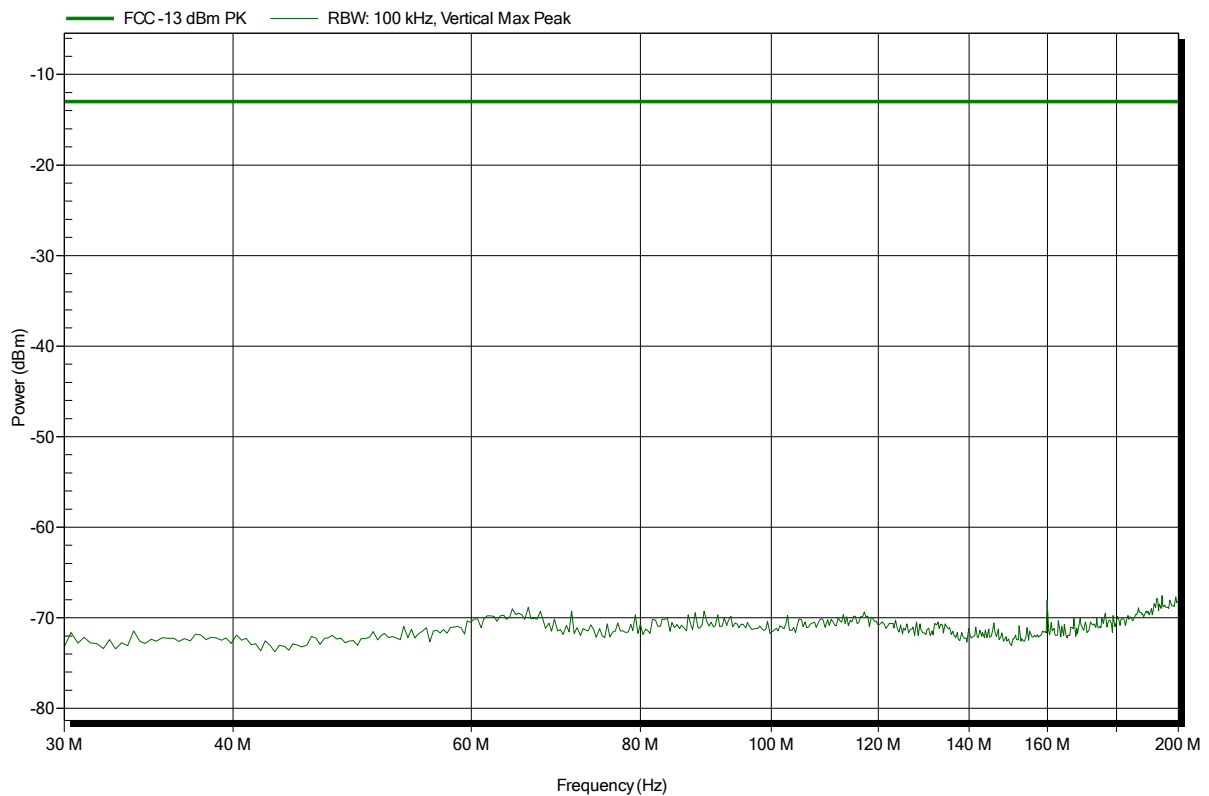


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 251; 1 uplink slot; Gamma 6
Test Date:	2014-08-04
Note:	EUT vertical

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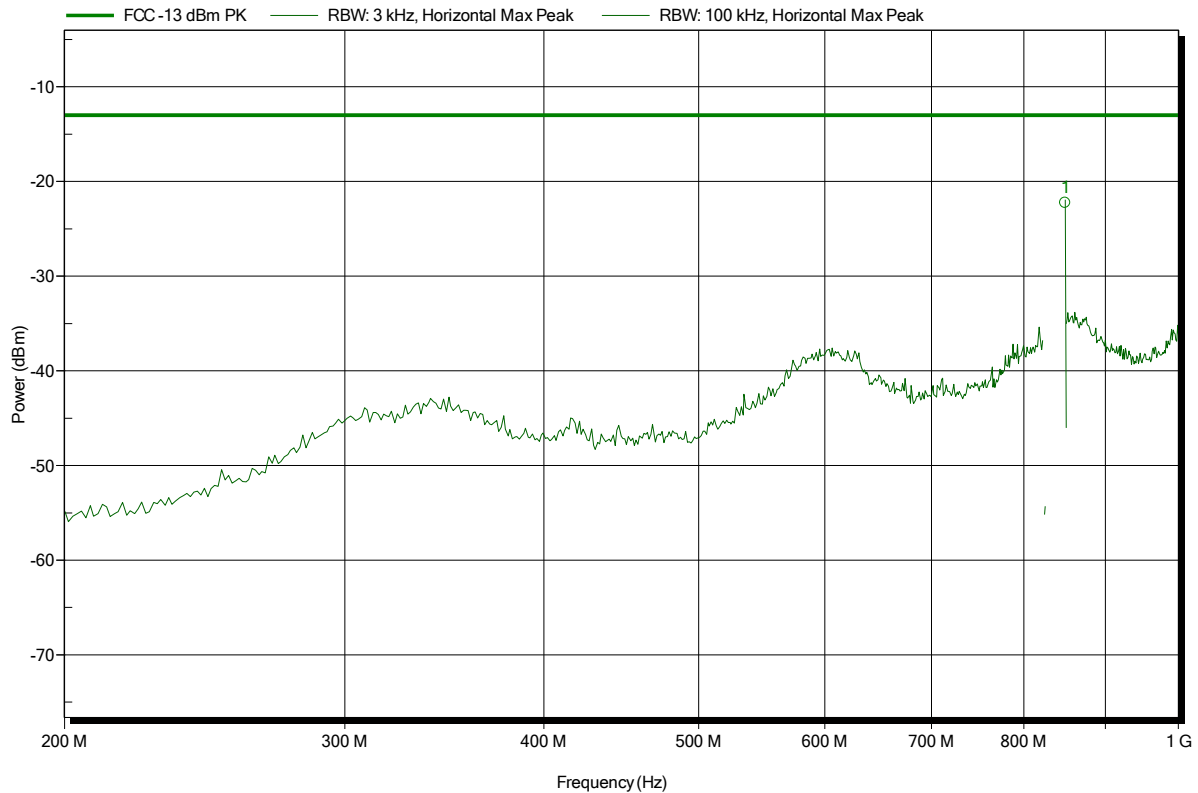


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 251; 1 uplink slot; Gamma 6
 Test Date: 2014-08-04
 Note: EUT vertical

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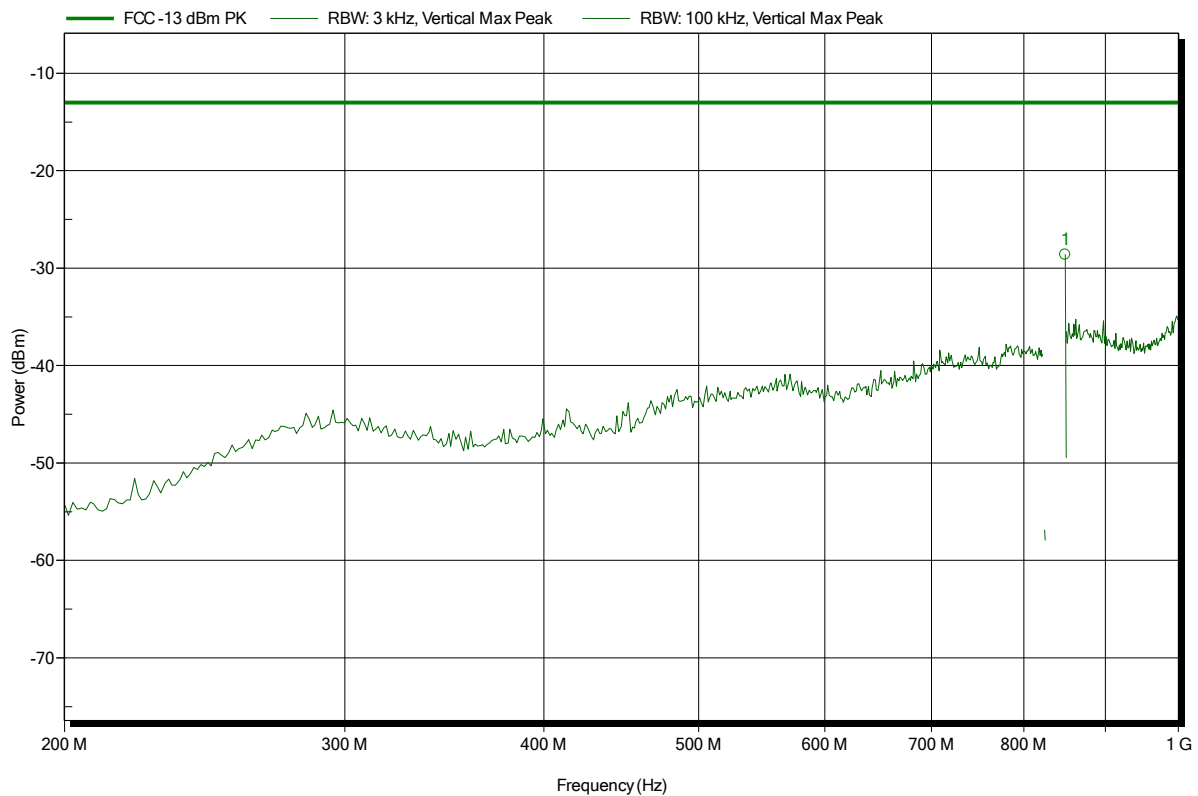
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
849.022 MHz	-22.3 dBm	-13 dBm	-9.27 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 251; 1 uplink slot; Gamma 6
 Test Date: 2014-08-04
 Note: EUT vertical

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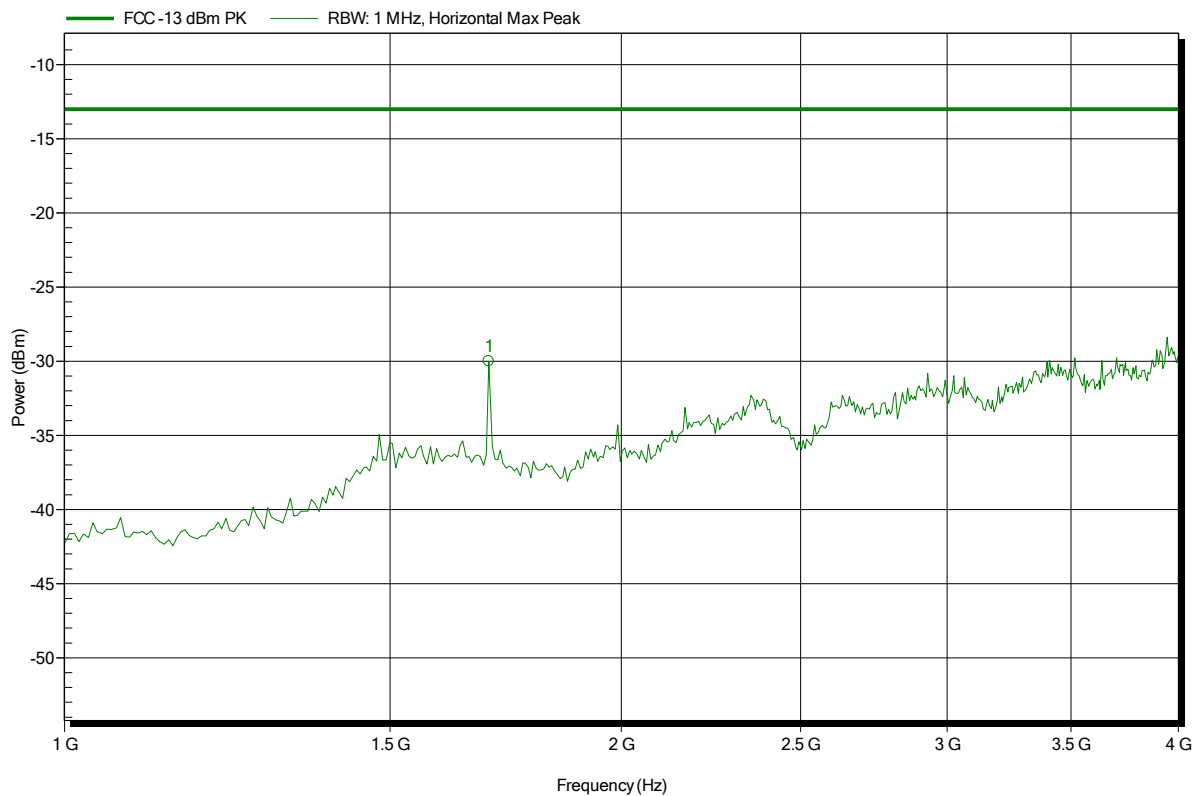
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
849.02 MHz	-28.6 dBm	-13 dBm	-15.62 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 251; 1 uplink slot; Gamma 6
 Test Date: 2014-08-05
 Note: EUT vertical

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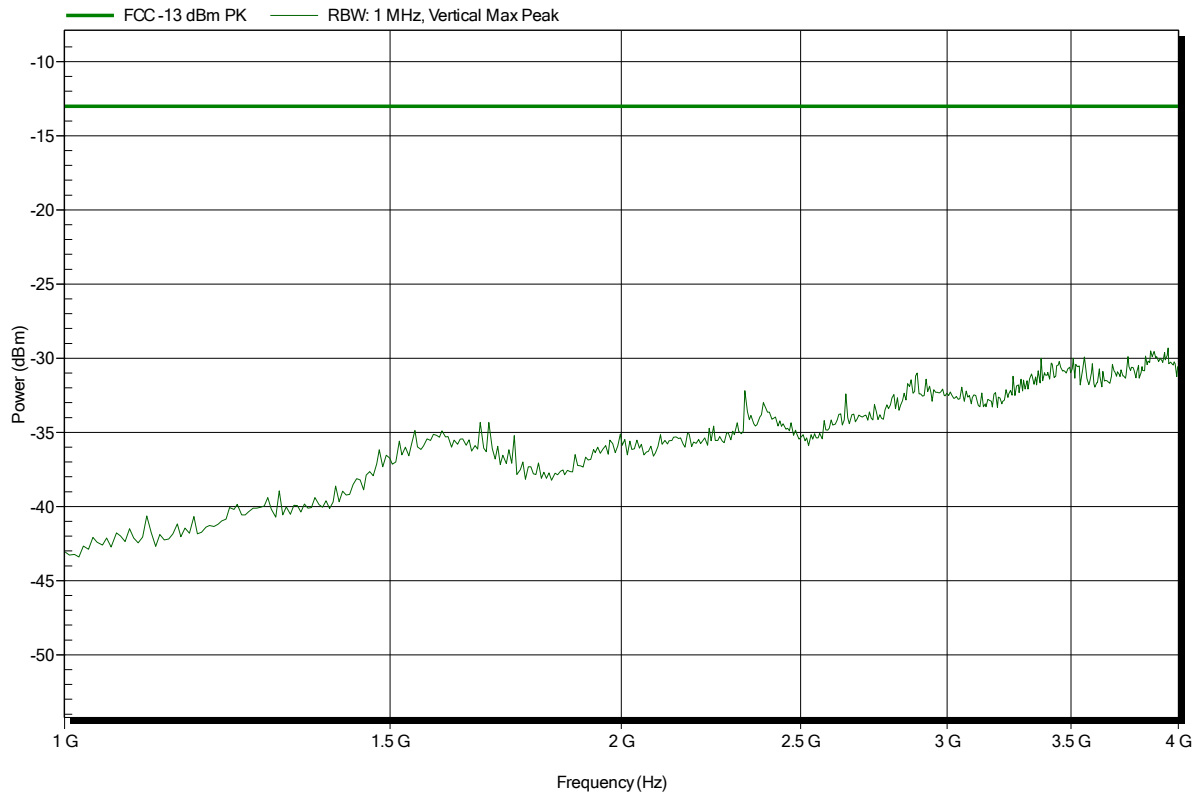
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.696 GHz	-30 dBm	-13 dBm	-17.01 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 251; 1 uplink slot; Gamma 6
Test Date:	2014-08-05
Note:	EUT vertical

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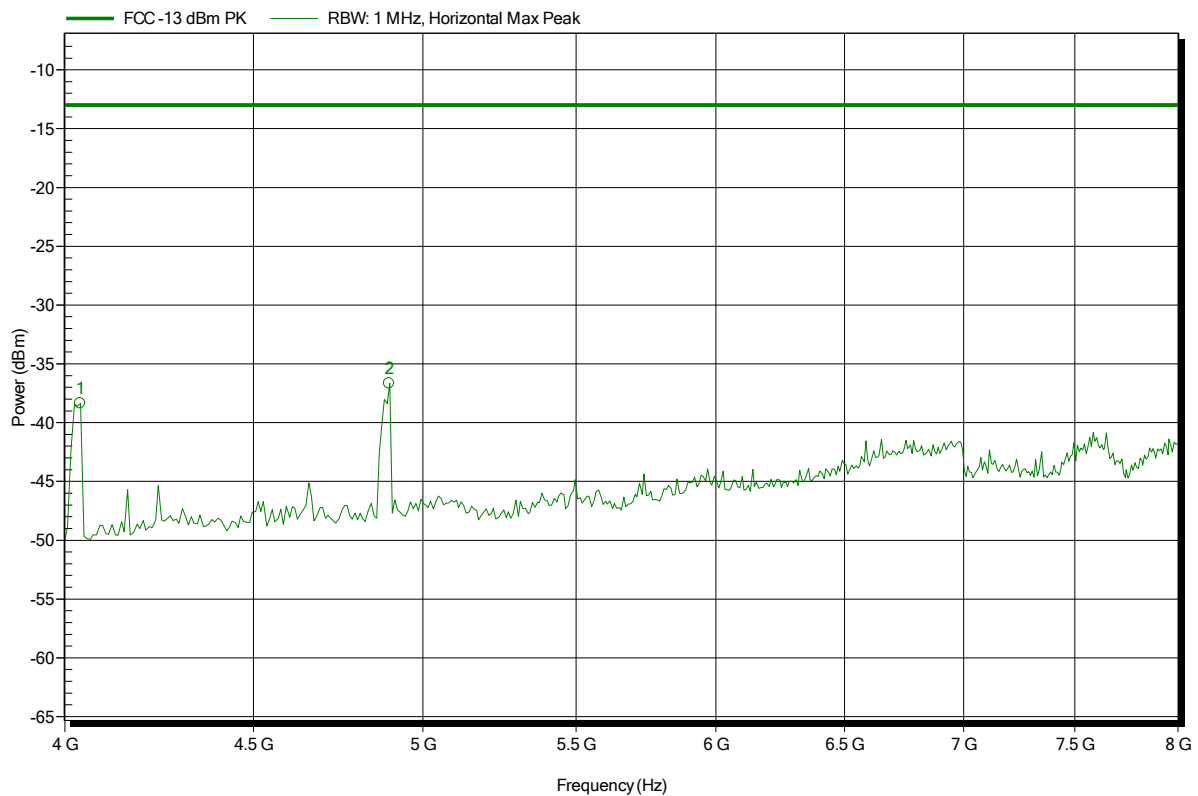


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 251; 1 uplink slot; Gamma 6
 Test Date: 2014-08-05
 Note: EUT vertical

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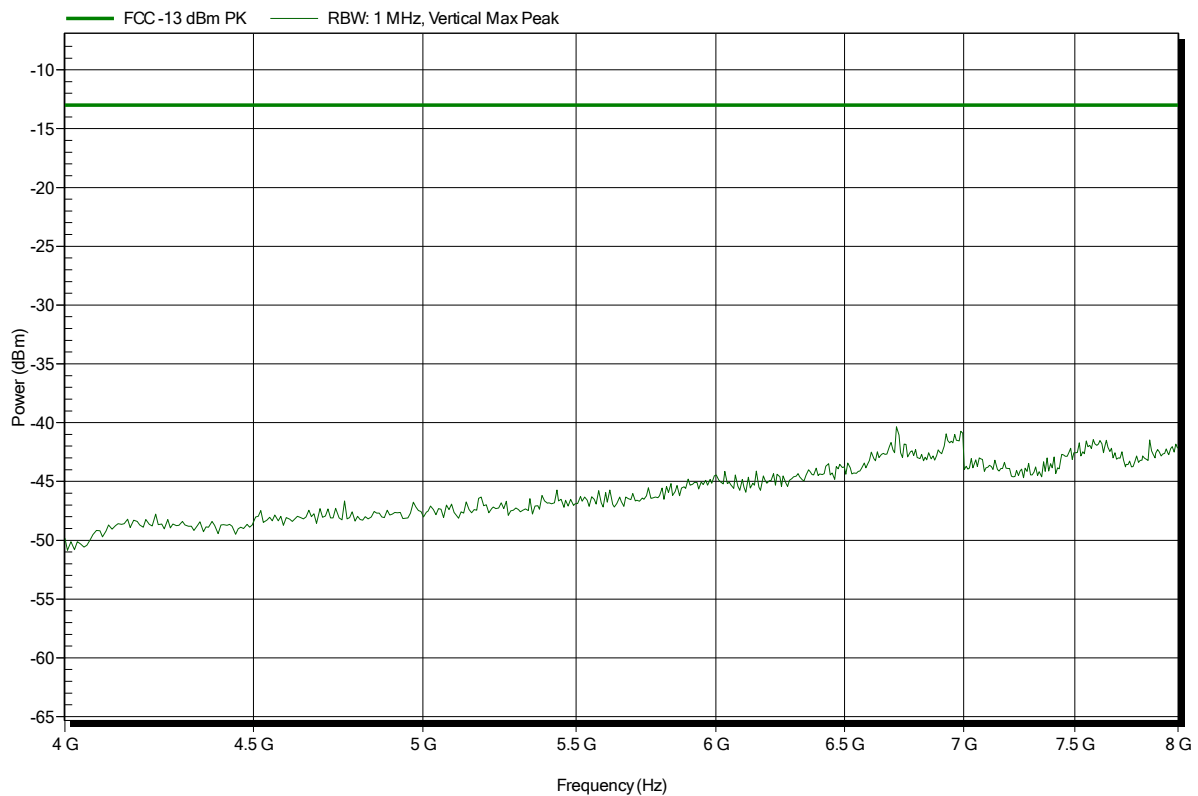
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.04 GHz	-38.4 dBm	-13 dBm	-25.37 dB	Pass
4.896 GHz	-36.7 dBm	-13 dBm	-23.67 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 251; 1 uplink slot; Gamma 6
Test Date:	2014-08-05
Note:	EUT vertical

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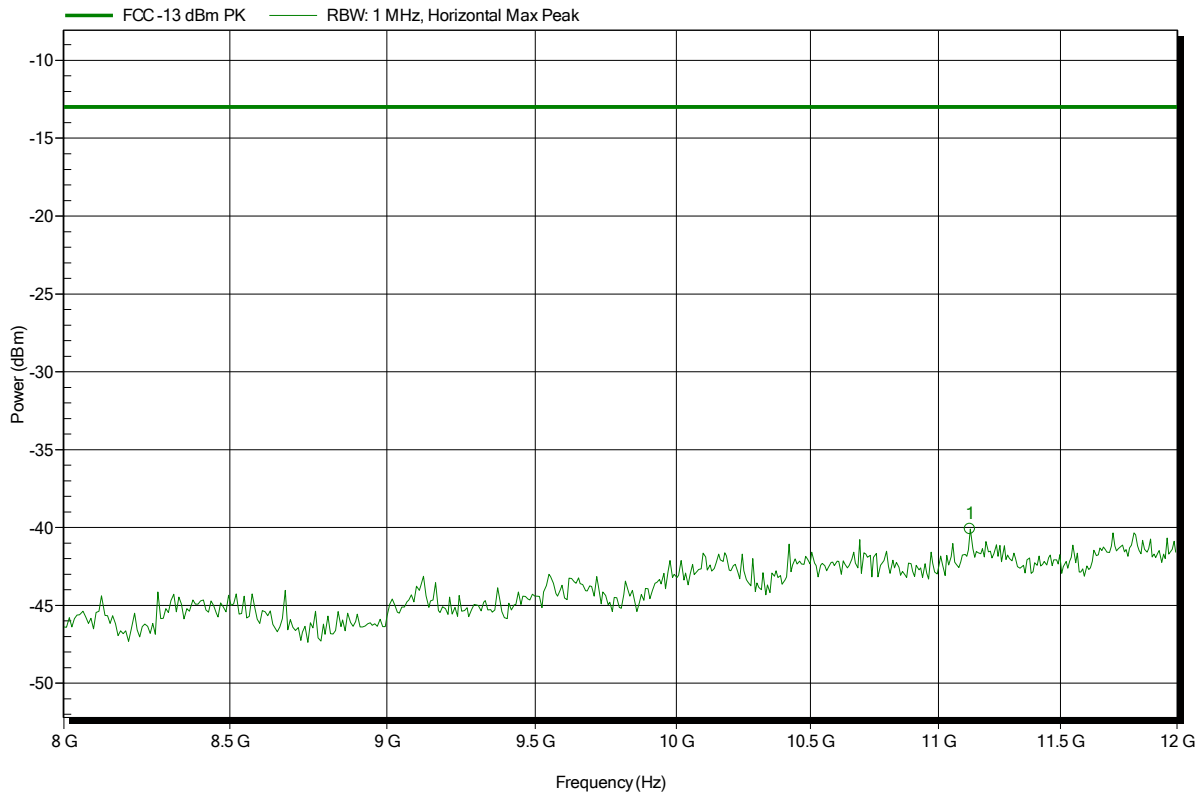


Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; EGPRS850; Ch. 251; 1 uplink slot; Gamma 6
 Test Date: 2014-08-05
 Note: EUT vertical

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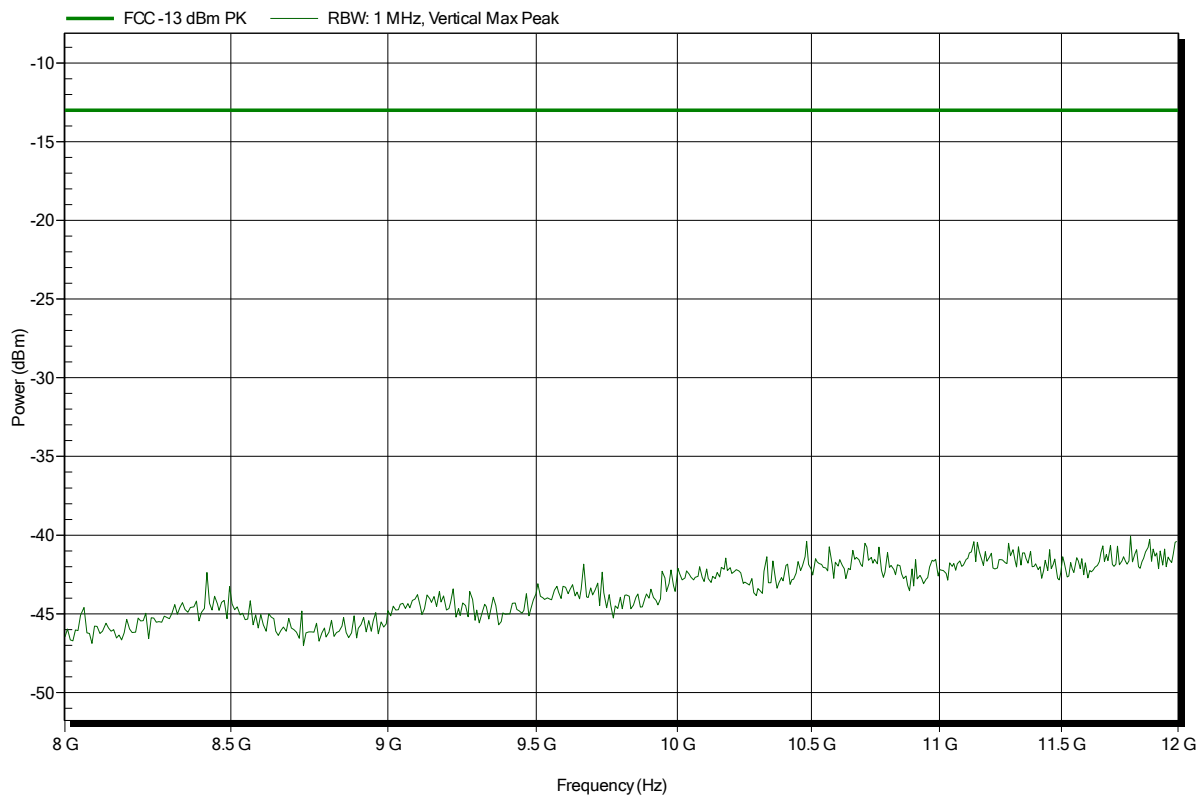
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
11.128 GHz	-40.1 dBm	-13 dBm	-27.1 dB	Pass

Spurious emissions according to FCC part 22 Subpart H, IC RSS-132

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. Weber
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EGPRS850; Ch. 251; 1 uplink slot; Gamma 6
Test Date:	2014-08-05
Note:	EUT vertical

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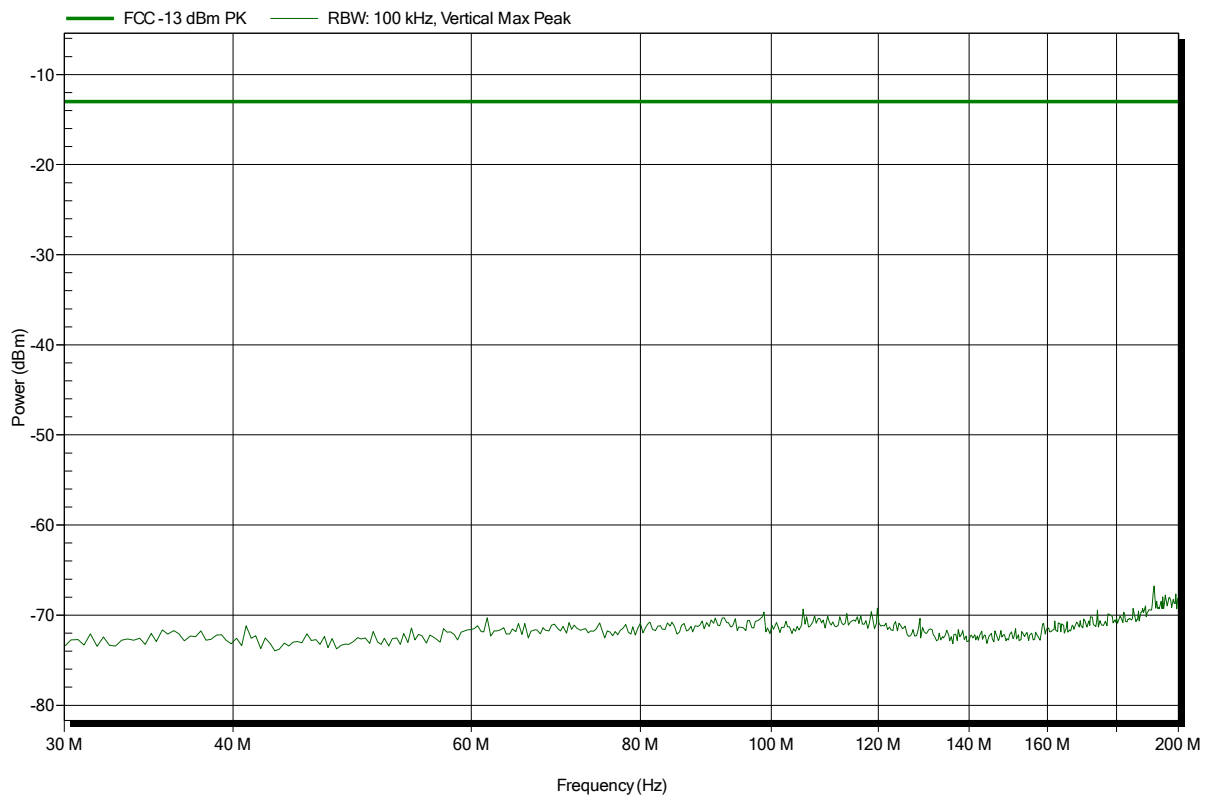


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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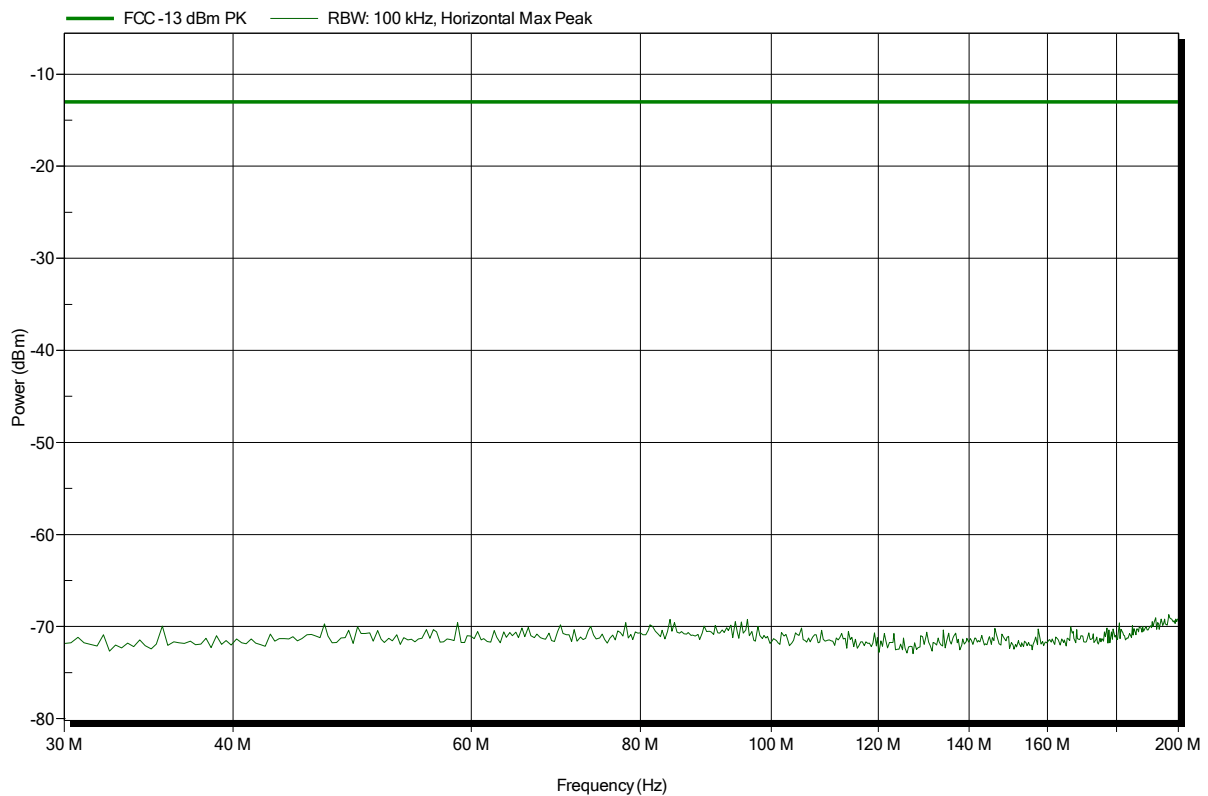


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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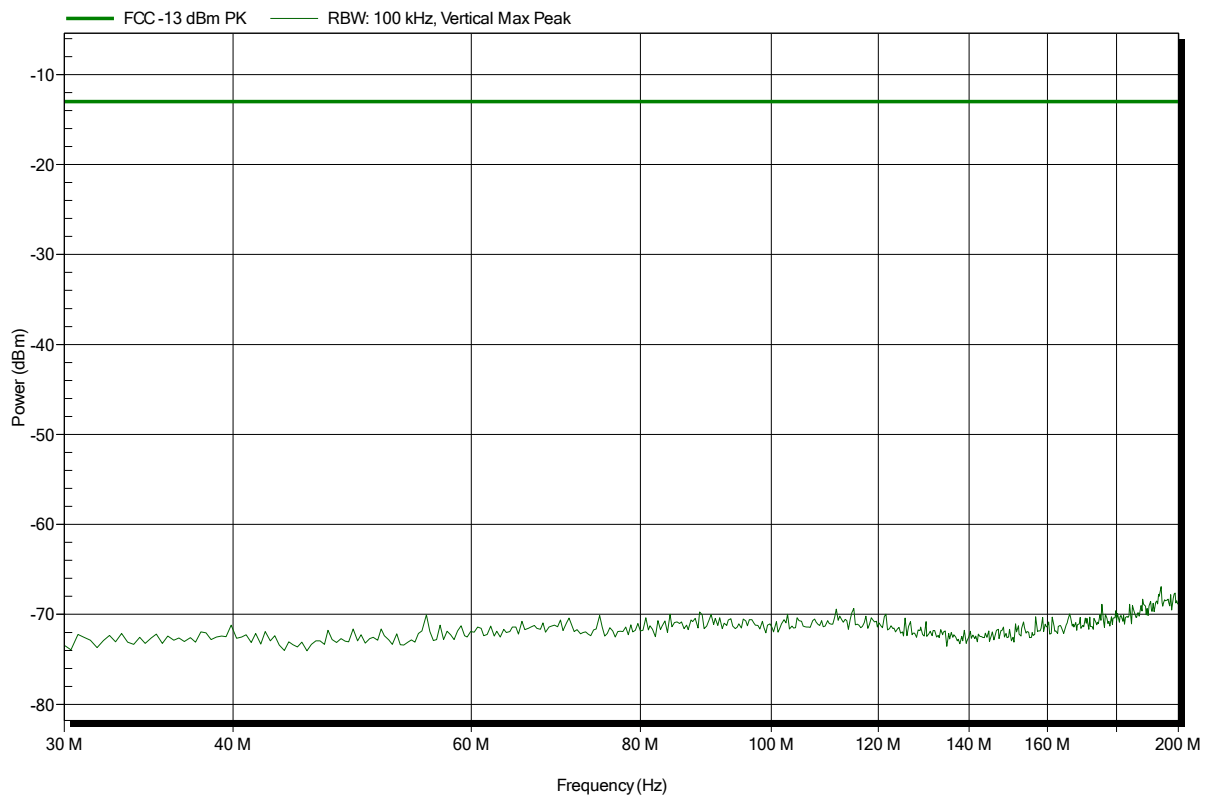


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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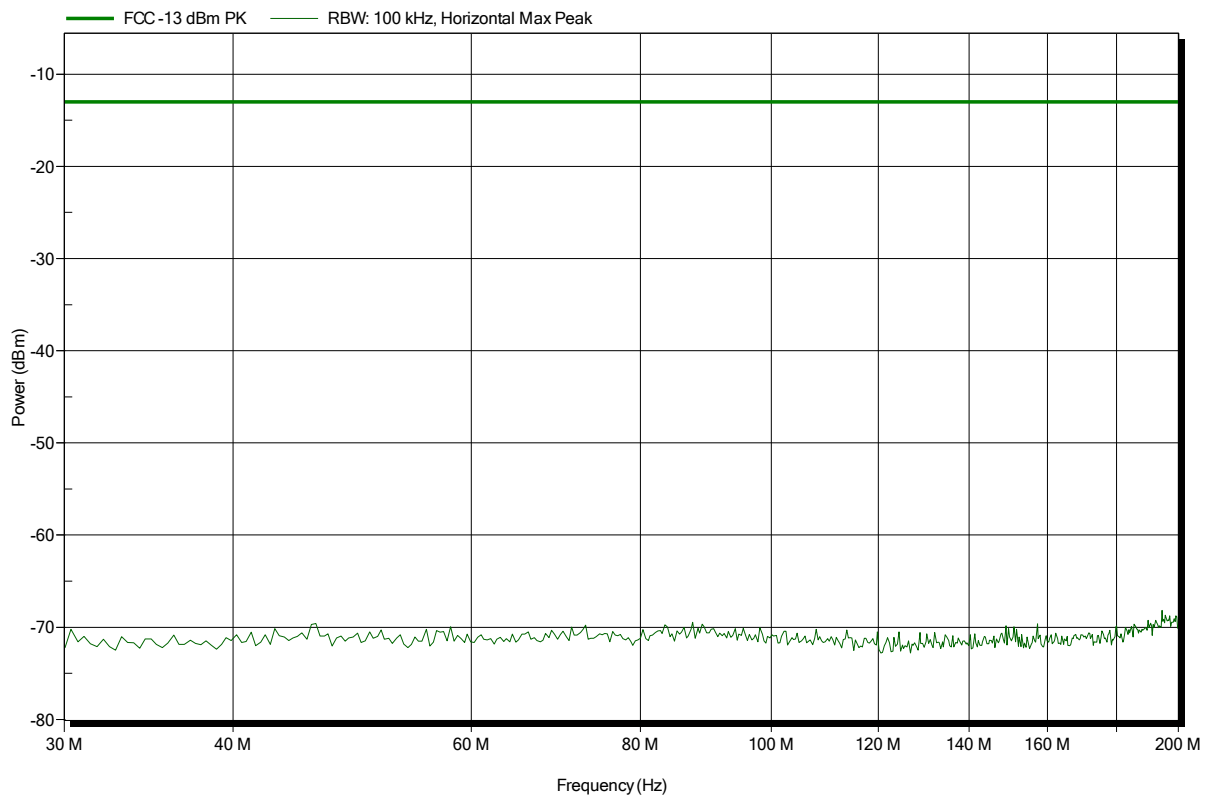


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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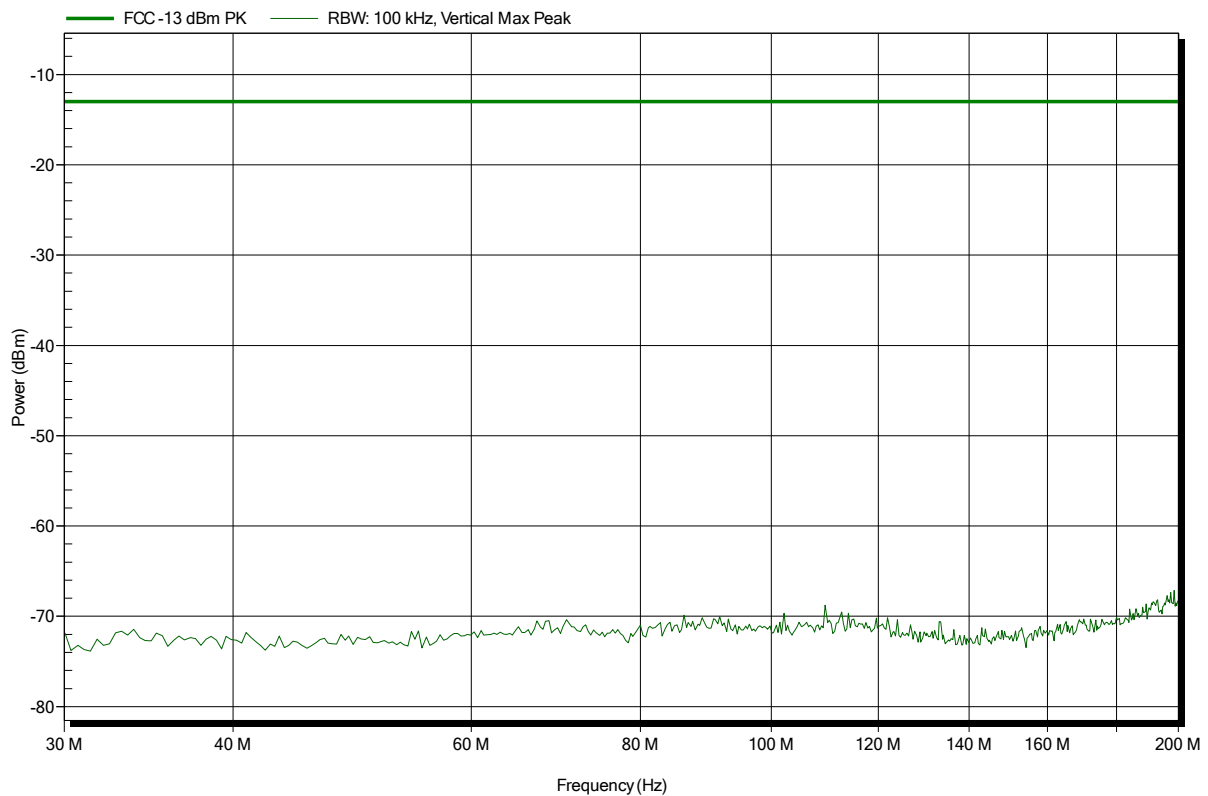


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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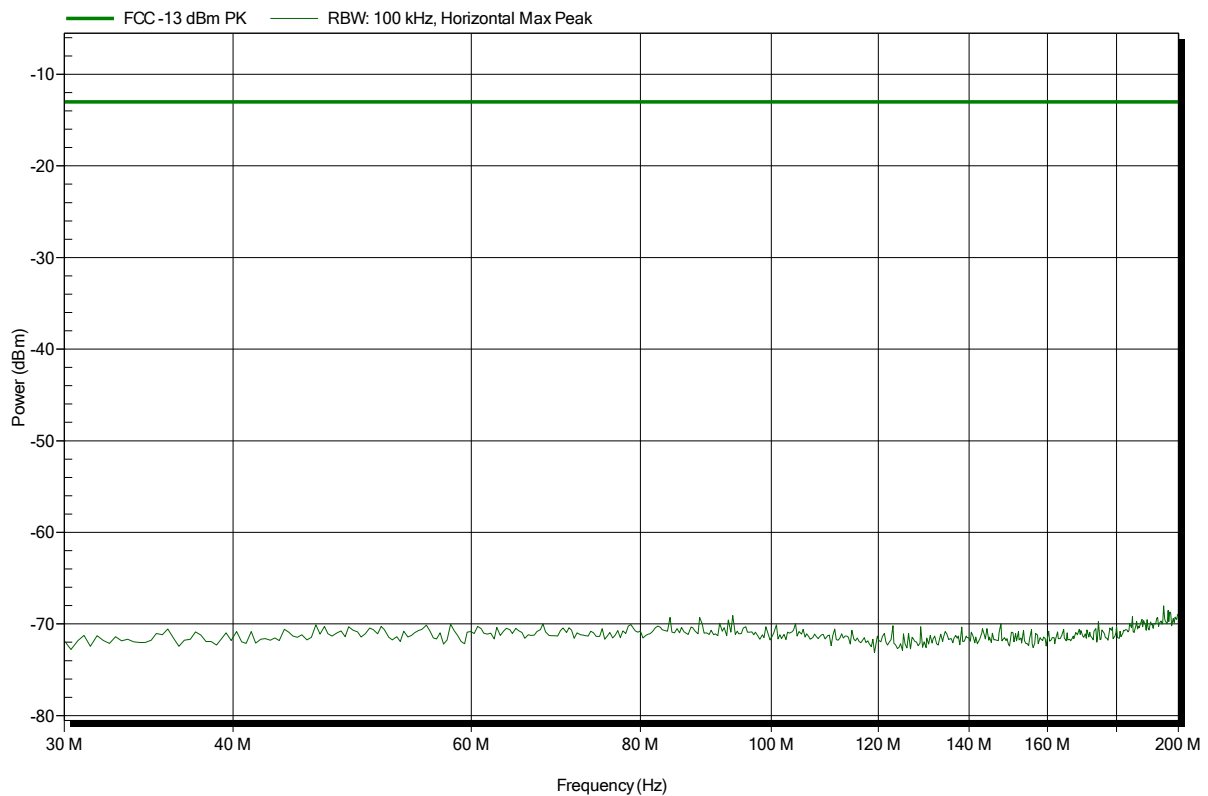


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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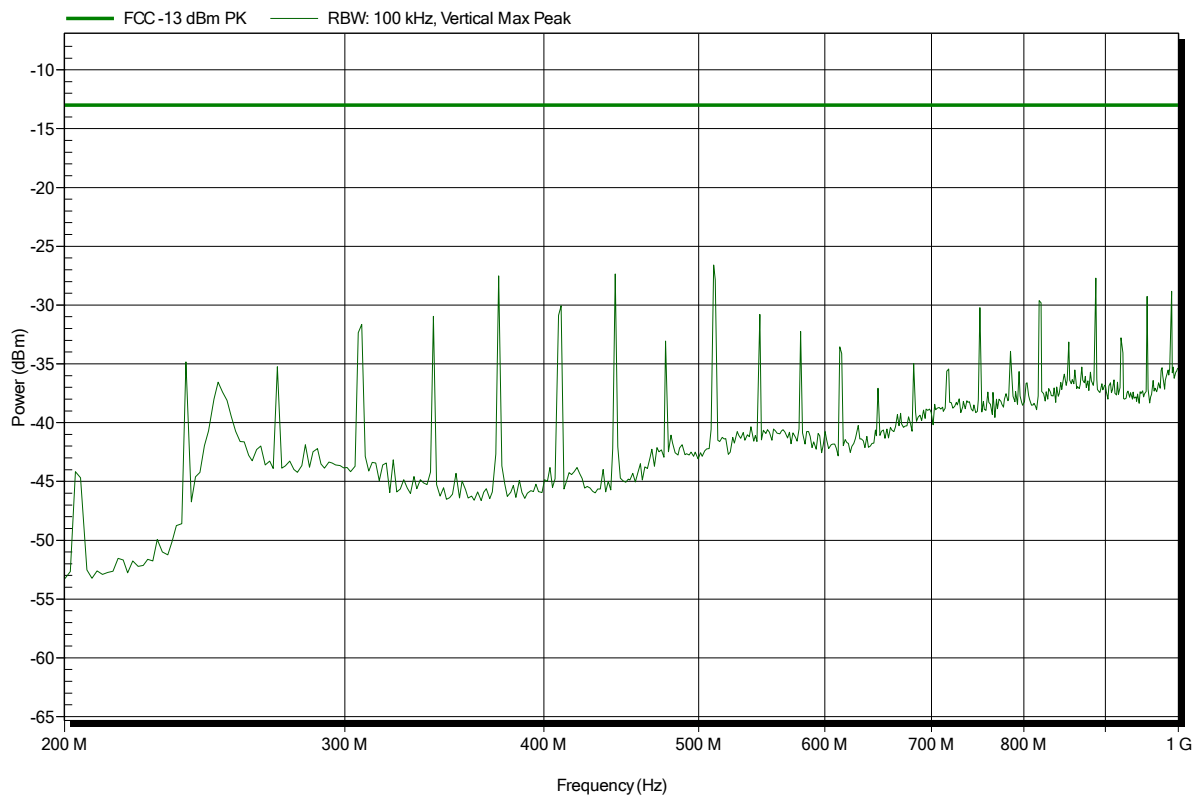


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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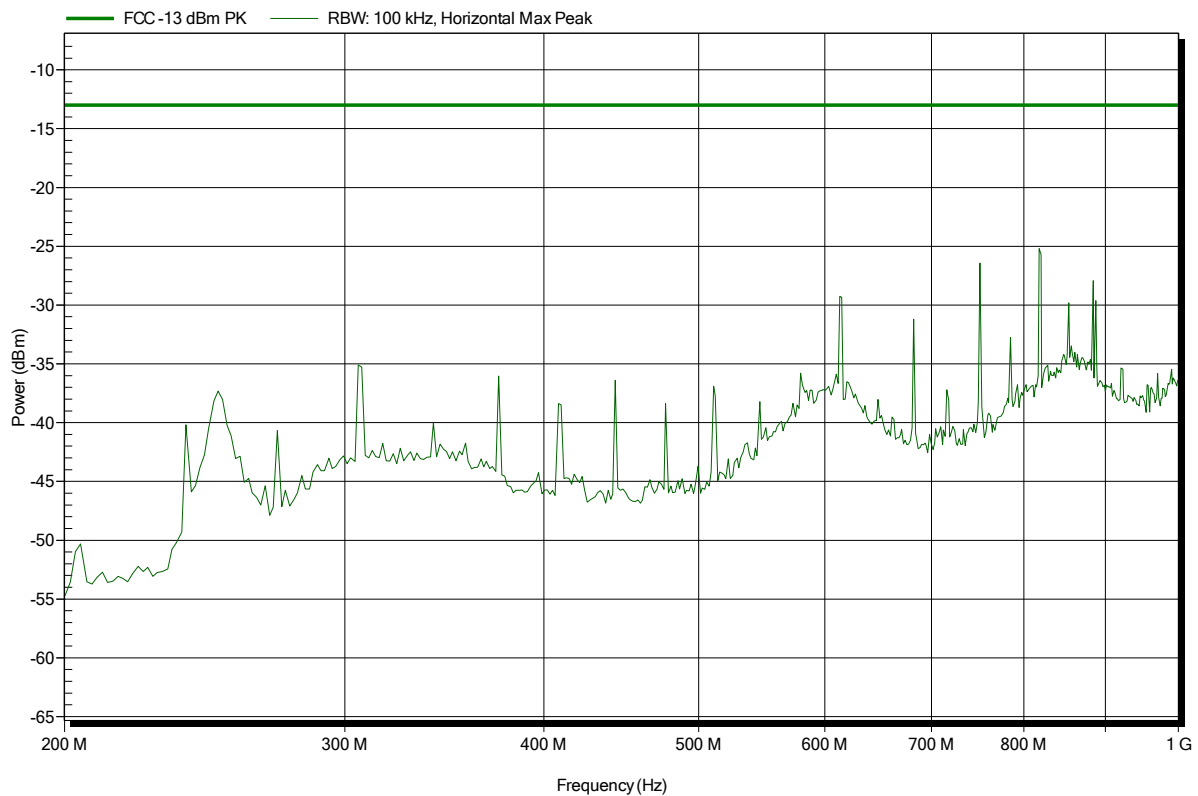


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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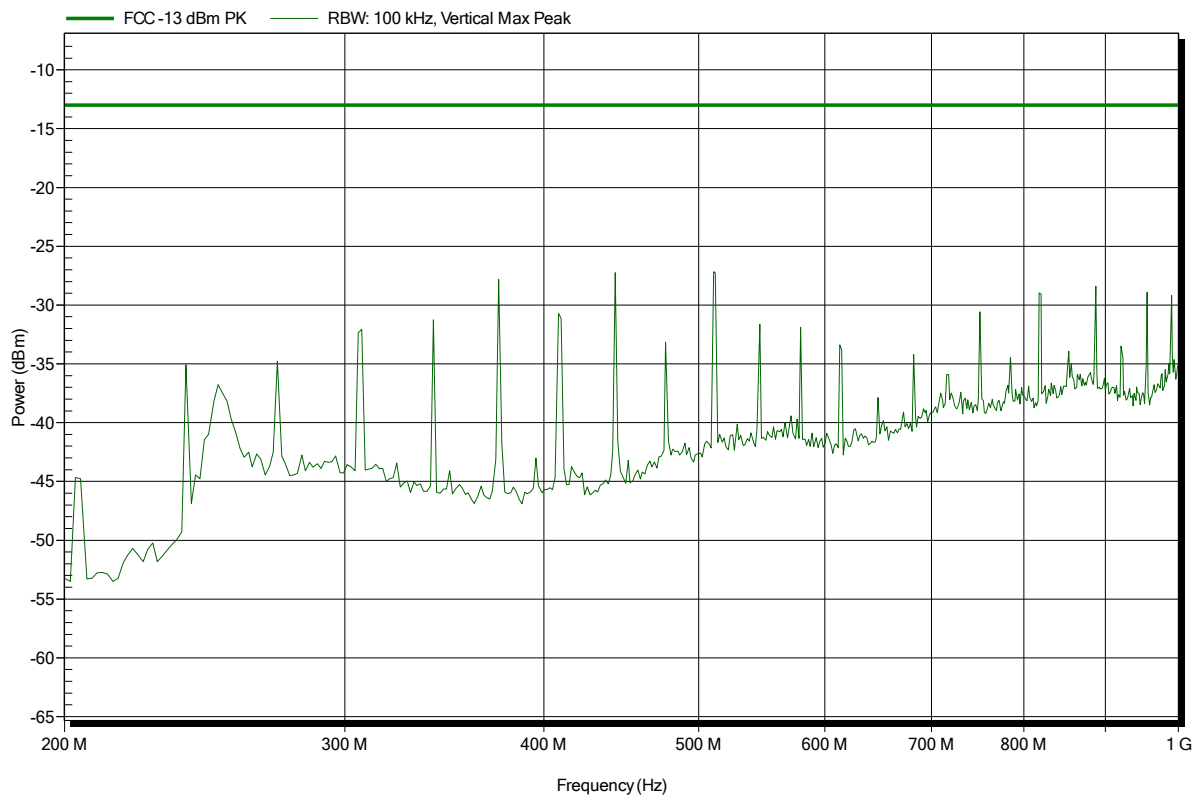


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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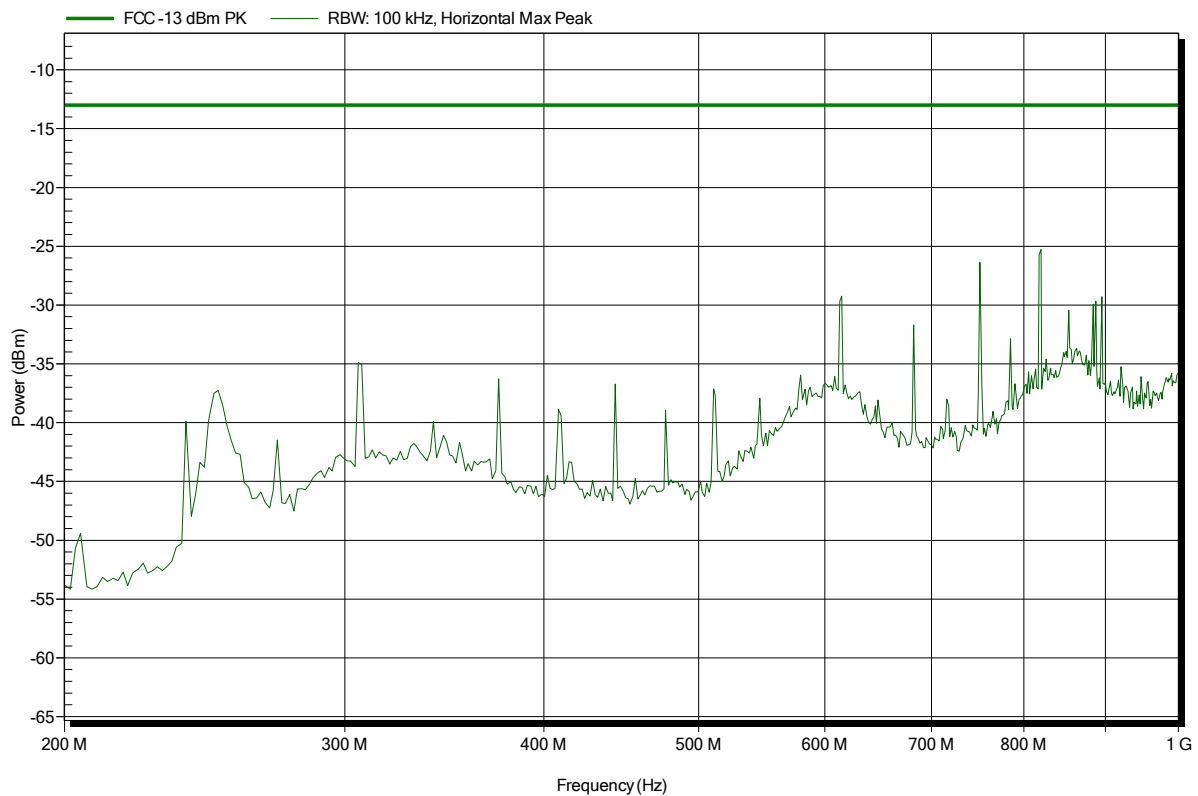


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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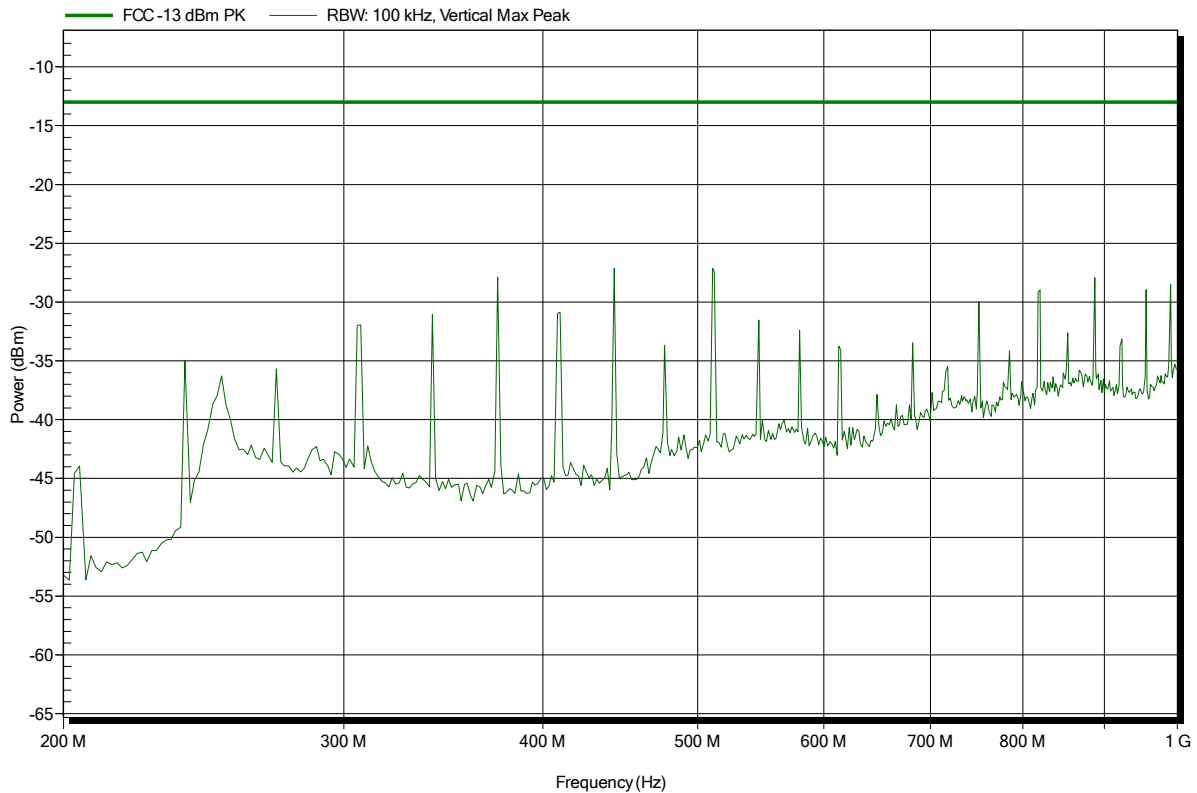


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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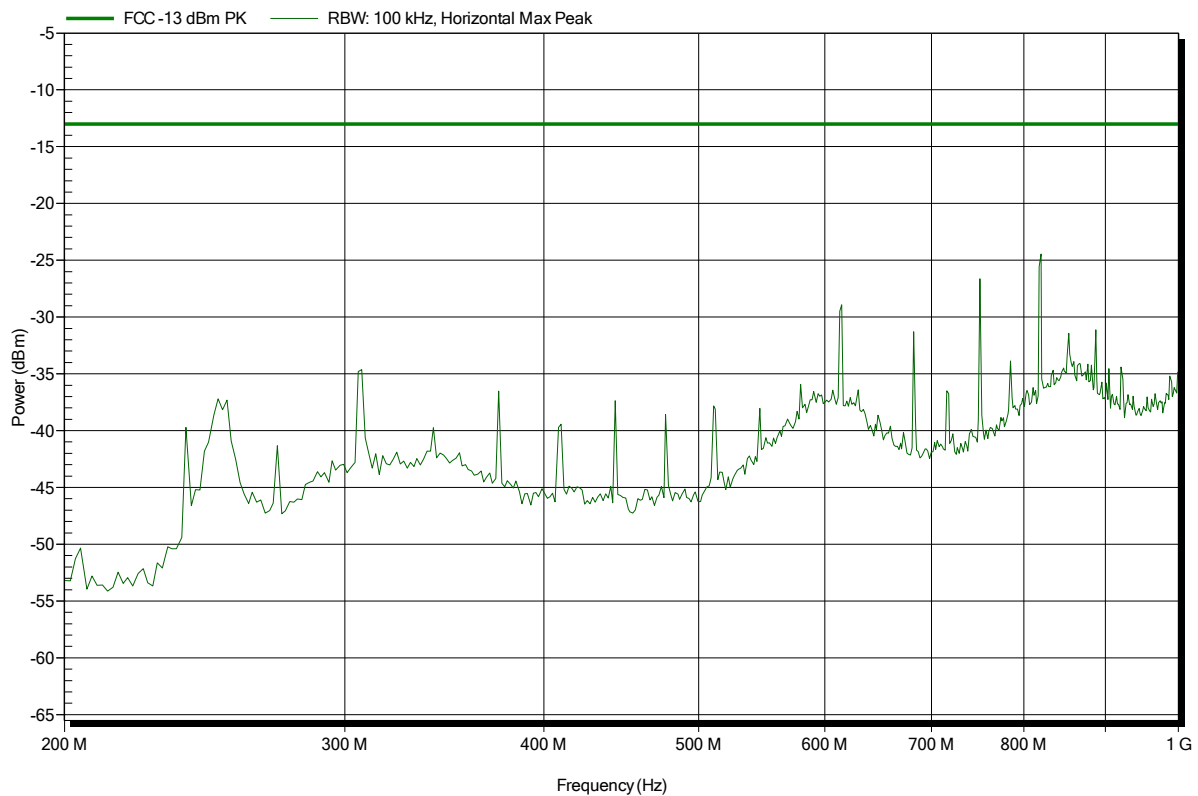


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical; worst case

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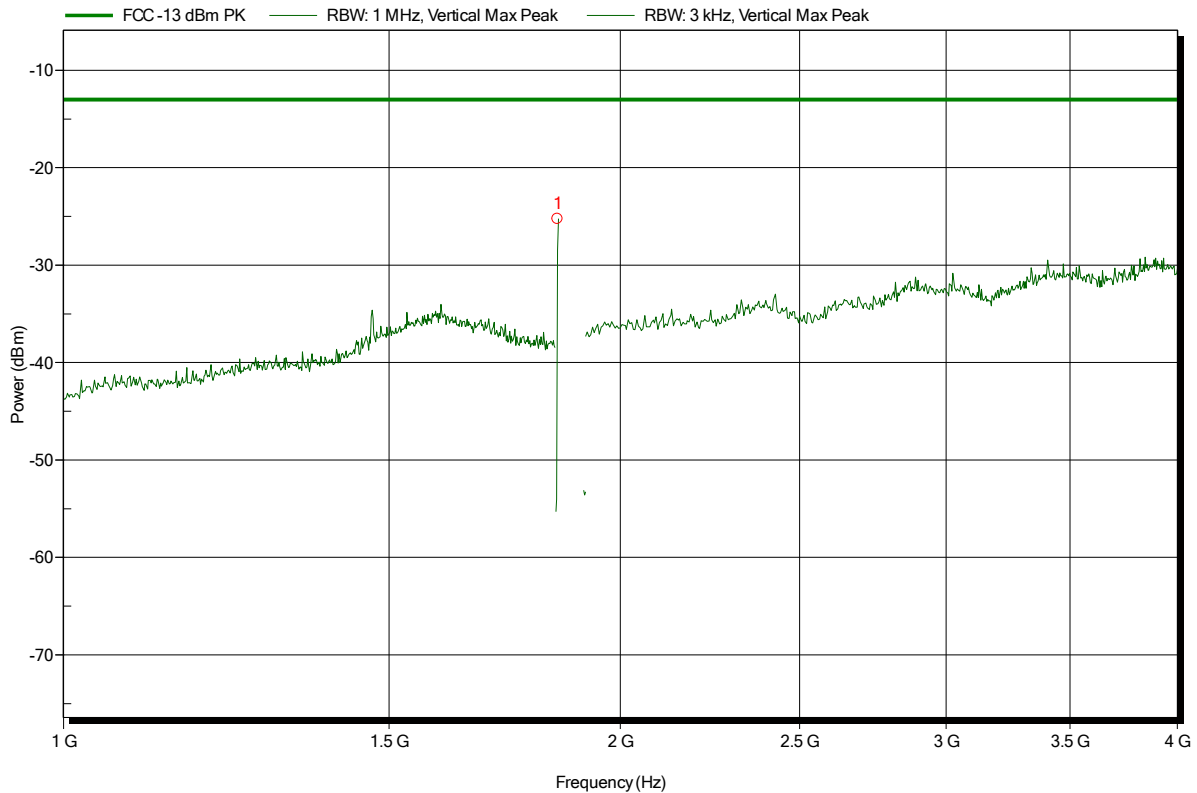


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
 Test Date: 2014-11-18
 Note: EUT vertical

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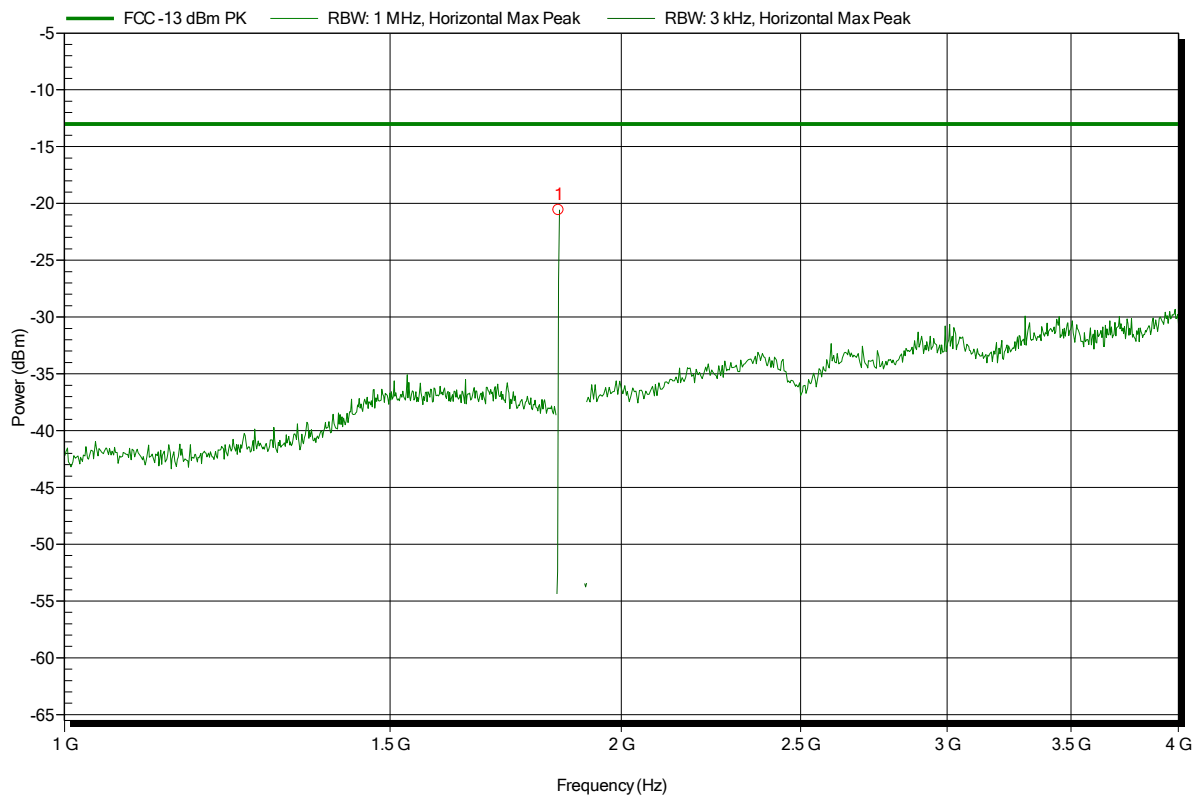
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.85 GHz	-25.2 dBm	-13 dBm	-12.25 dB	Pass

Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
 Test Date: 2014-11-18
 Note: EUT vertical

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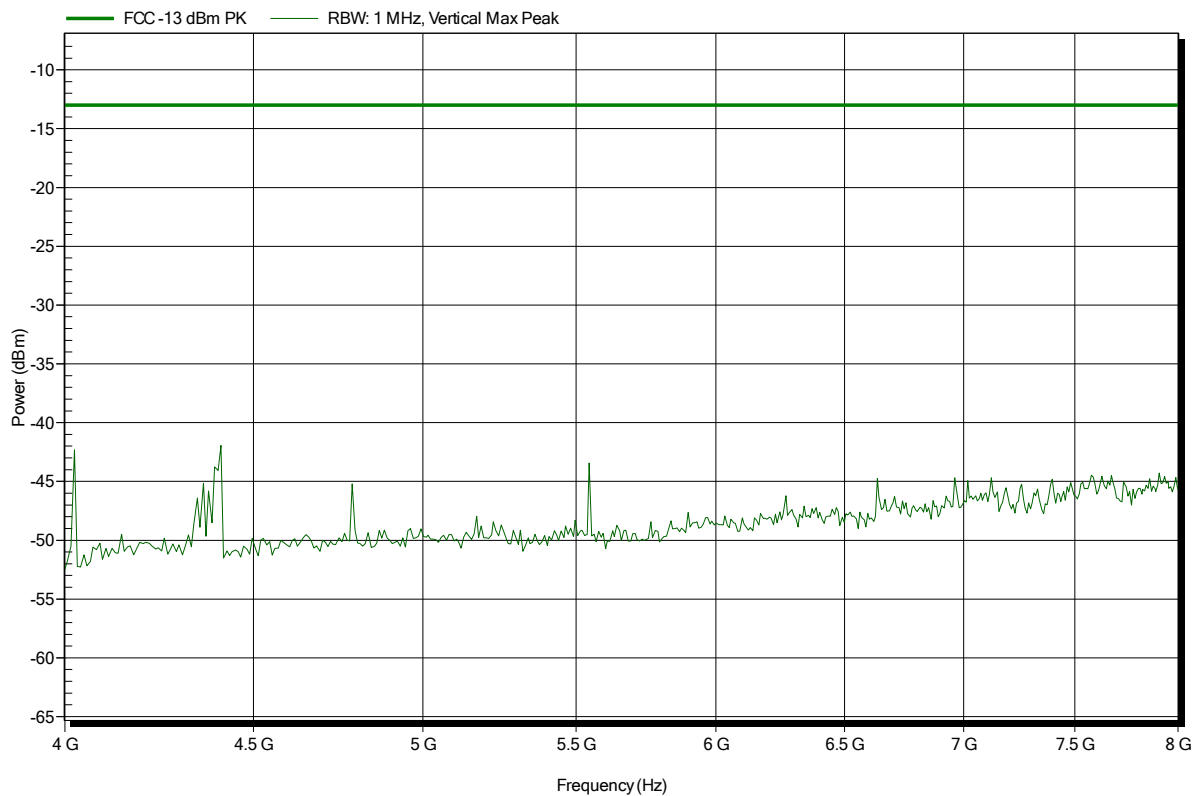
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.85 GHz	-20.6 dBm	-13 dBm	-7.58 dB	Pass

Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
Test Date:	2014-11-18
Note:	EUT vertical

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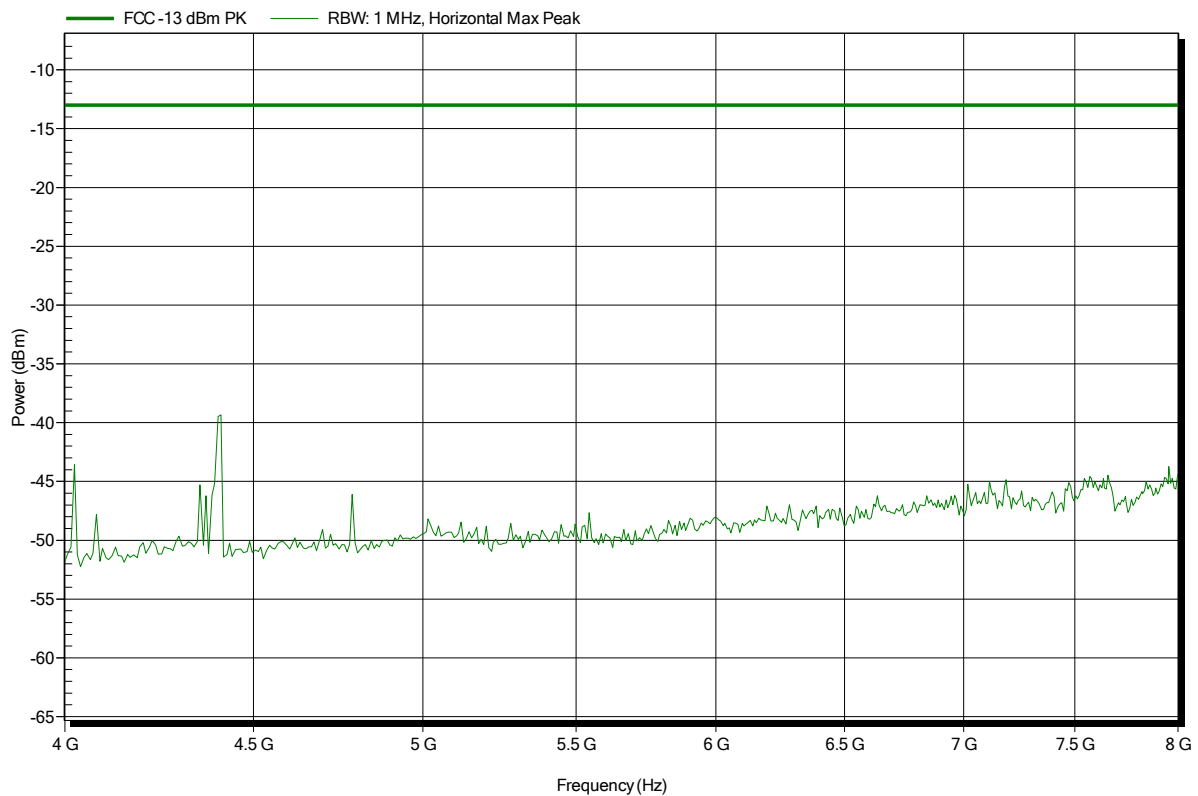


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
Test Date:	2014-11-18
Note:	EUT vertical

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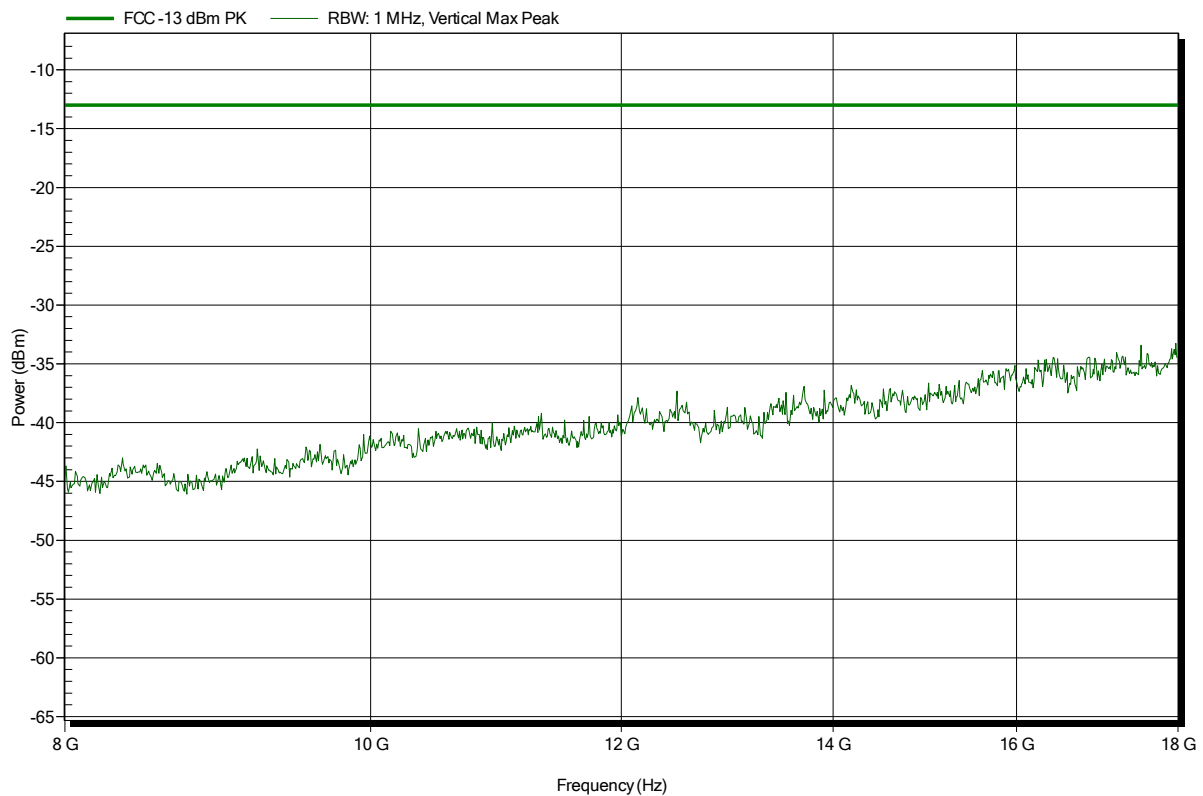


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
Test Date:	2014-11-18
Note:	EUT vertical

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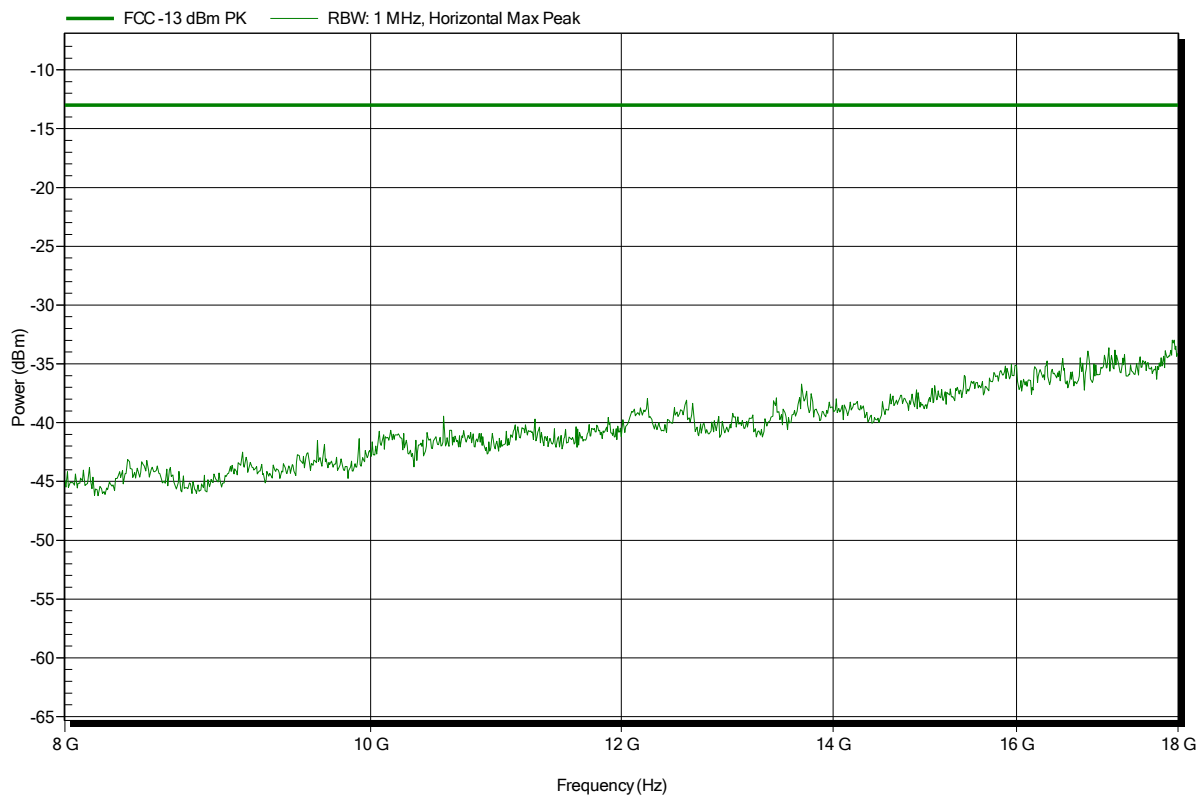


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
Test Date:	2014-11-18
Note:	EUT vertical

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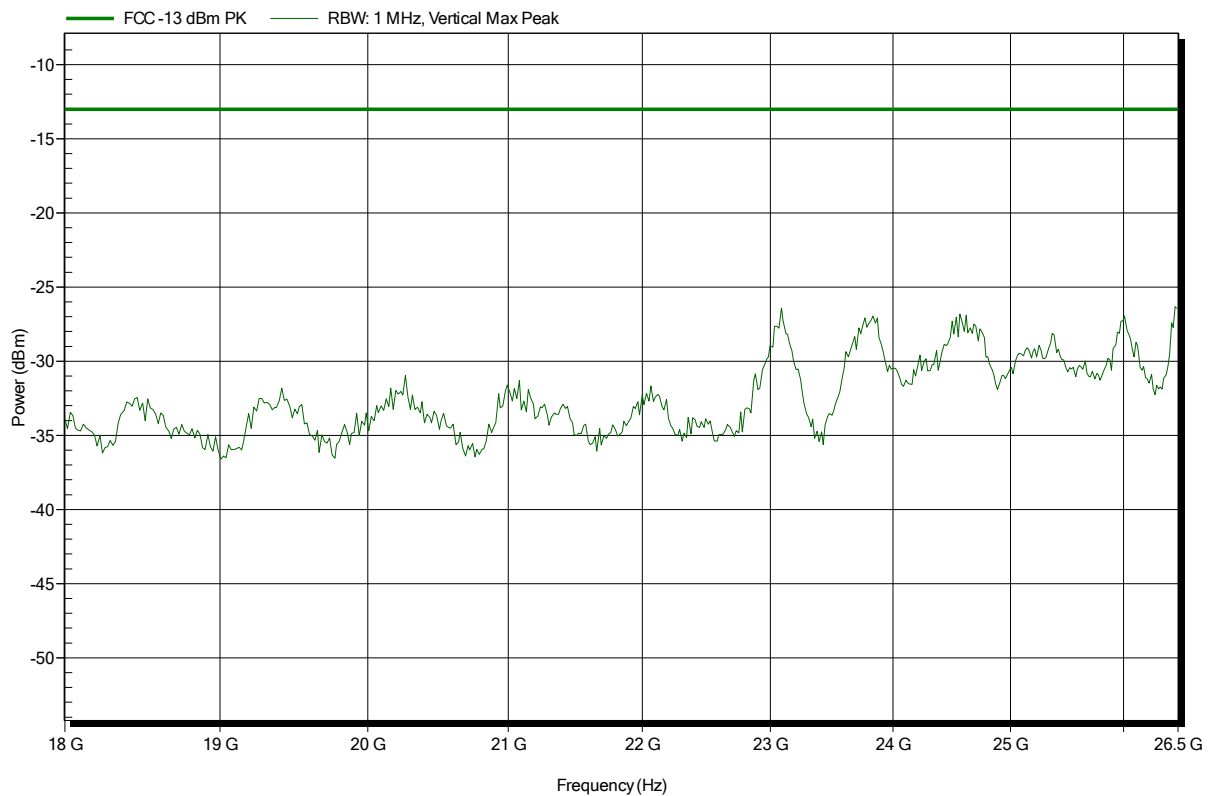


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
Test Date:	2014-11-18
Note:	EUT vertical

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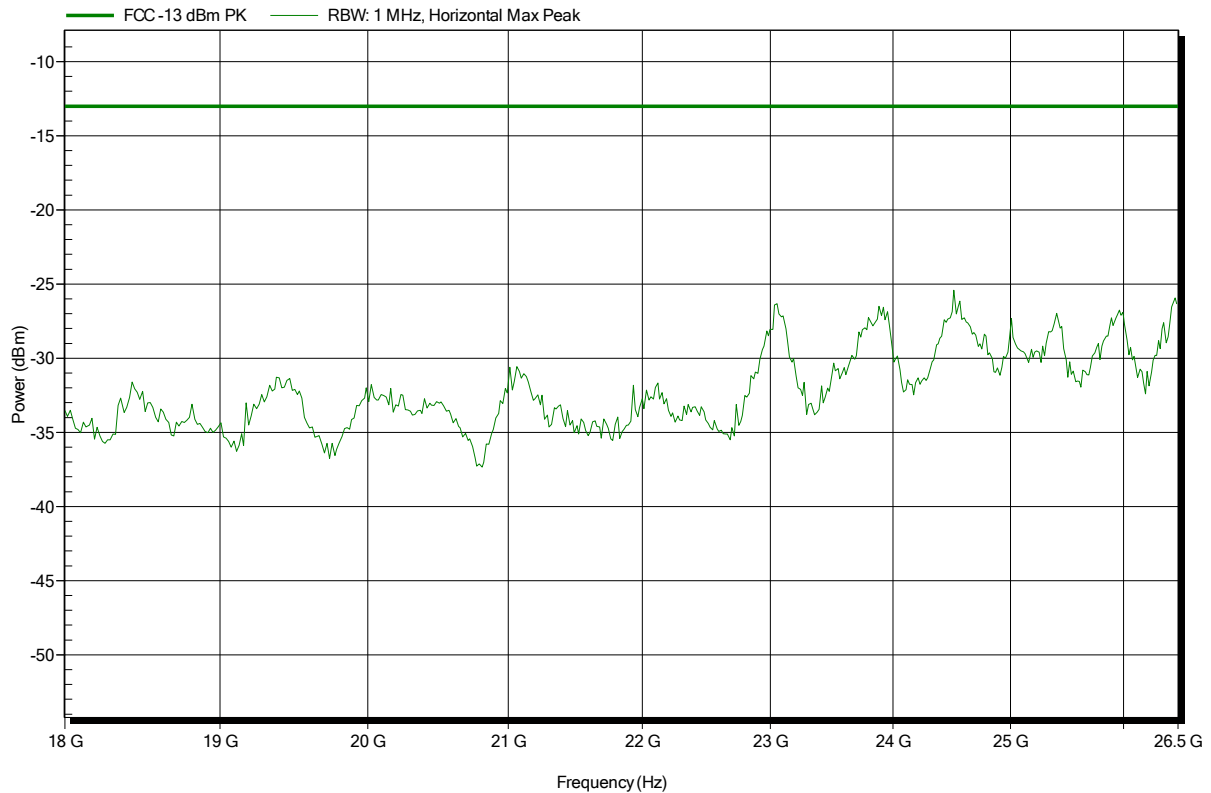


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 512, UL 1x Slot, Gamma 3
Test Date:	2014-11-18
Note:	EUT vertical

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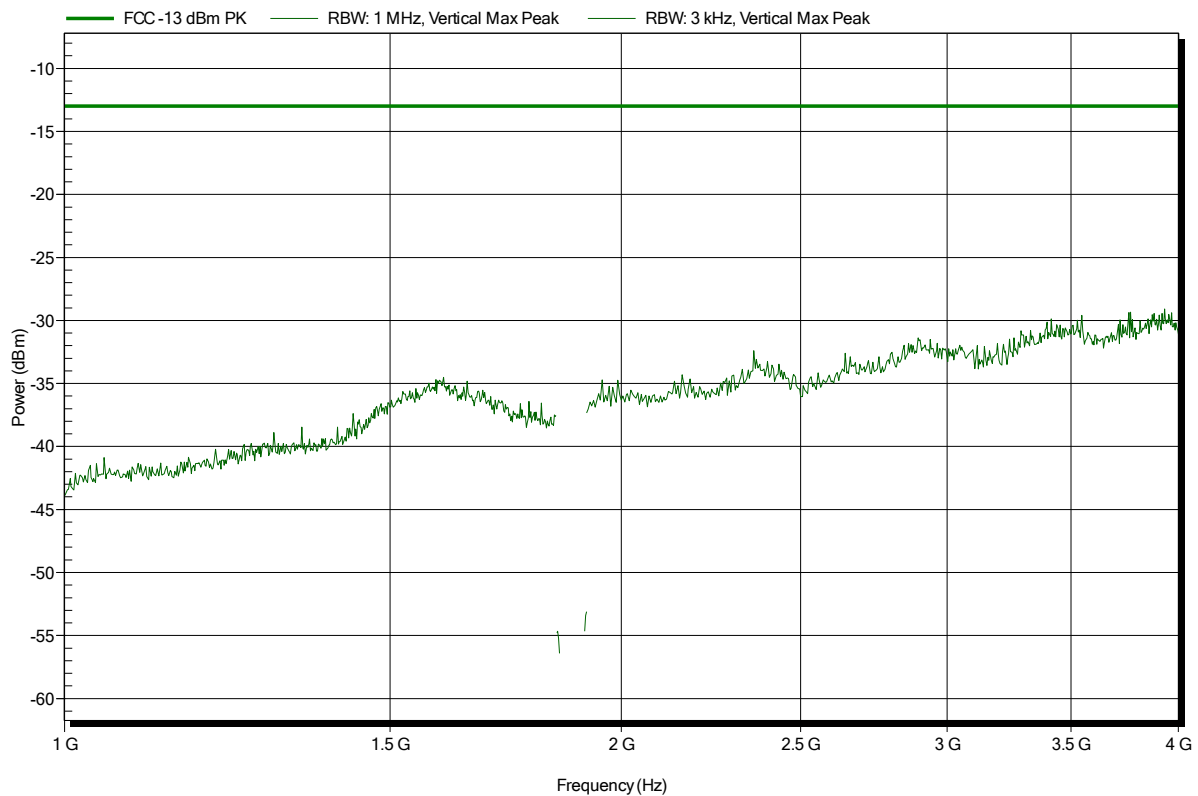


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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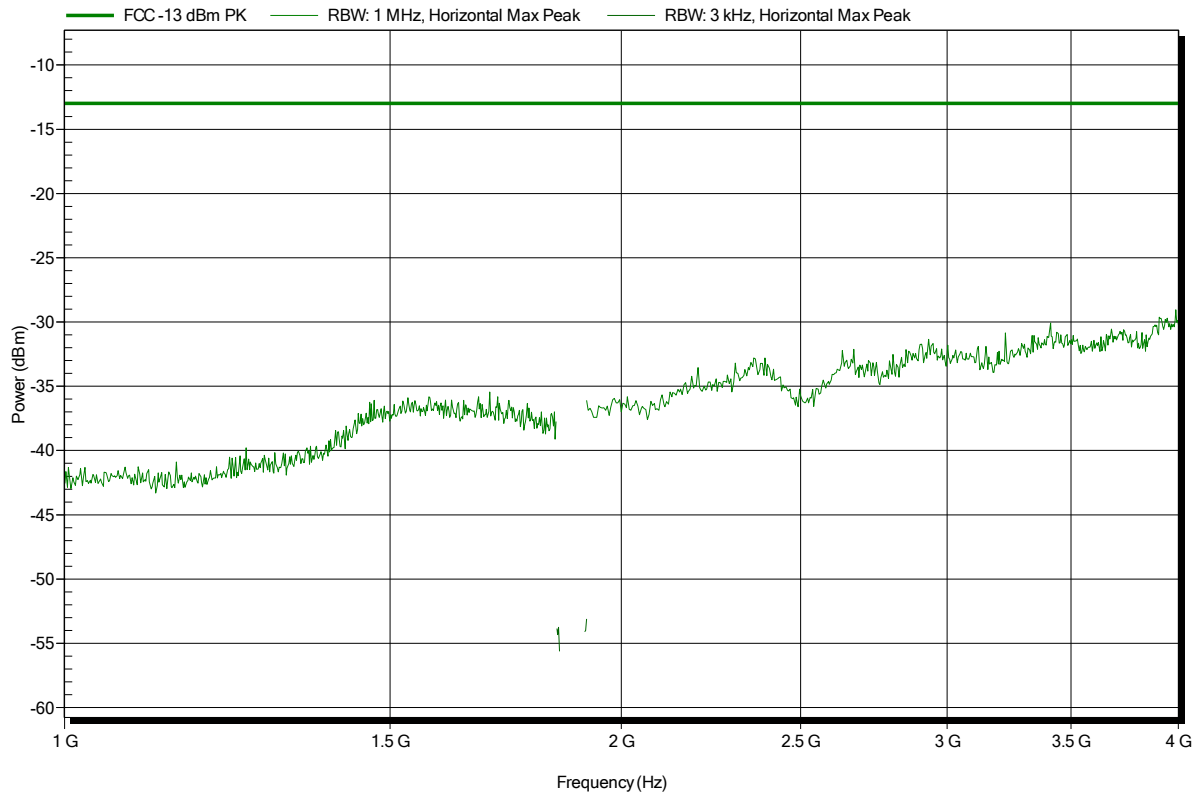


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-18
Note:	EUT vertical

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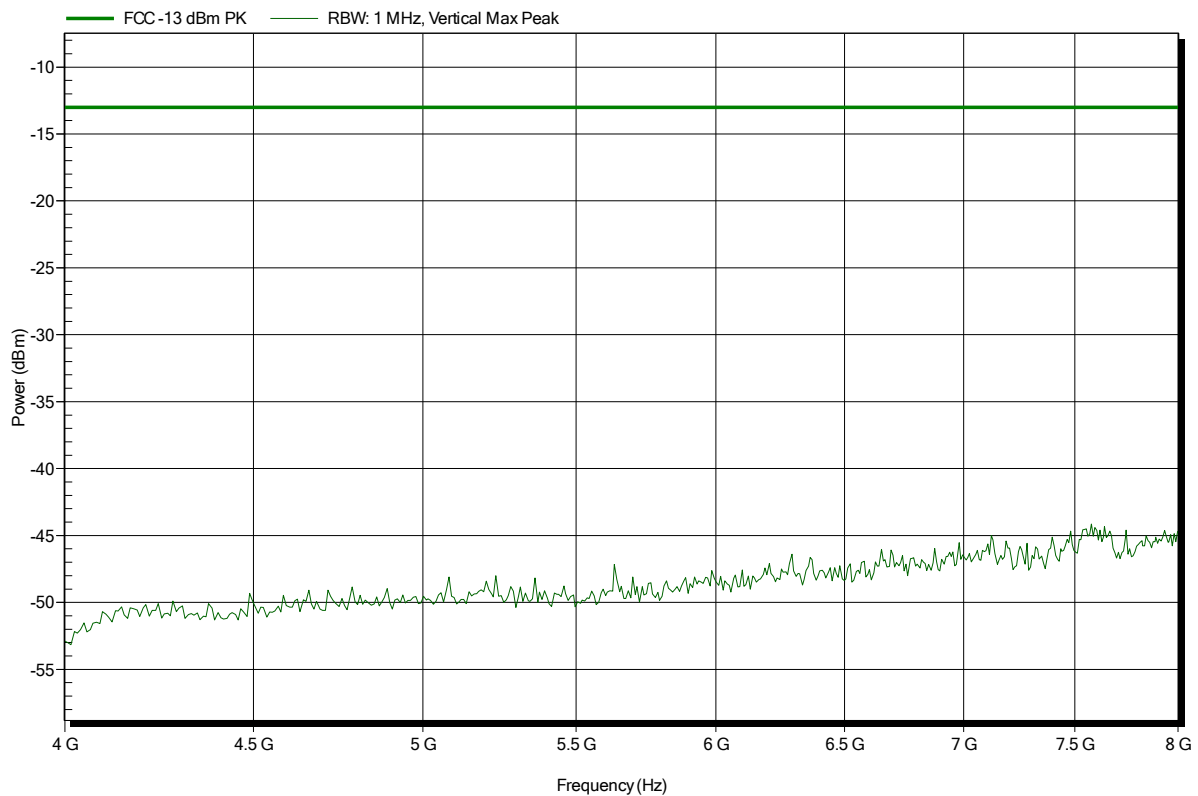


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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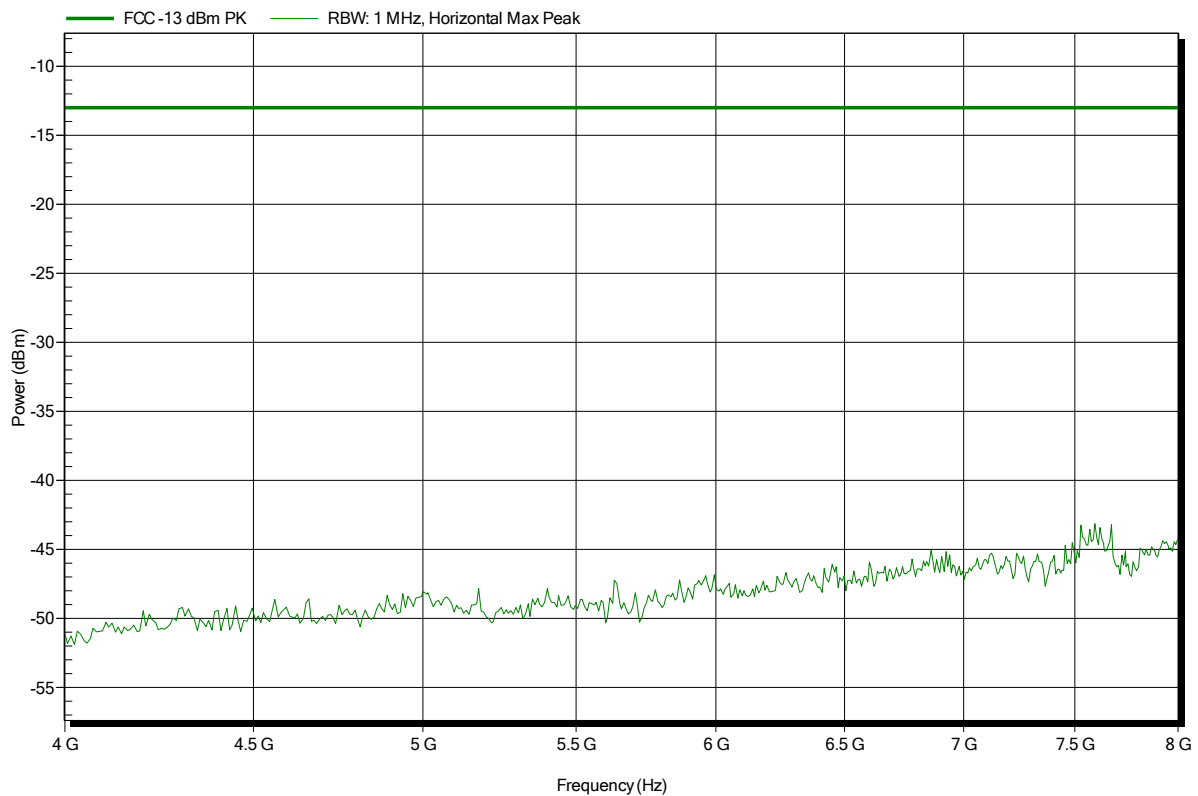


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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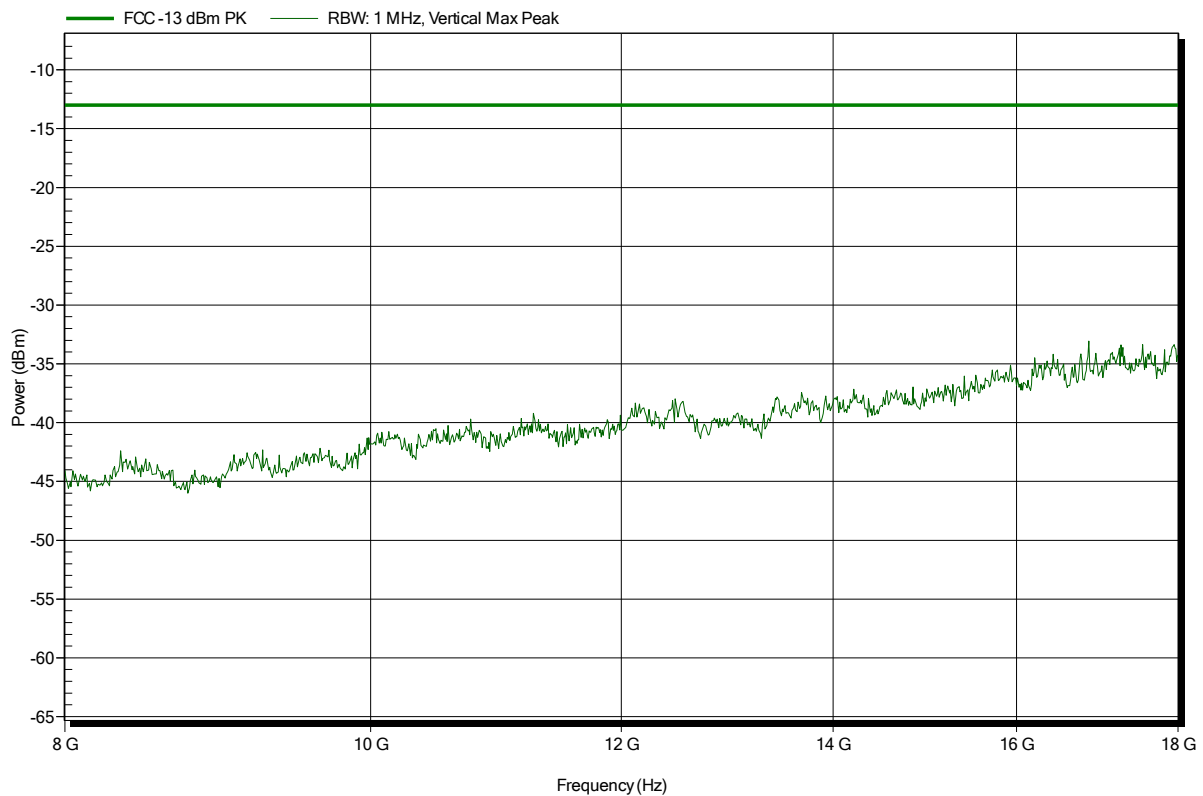


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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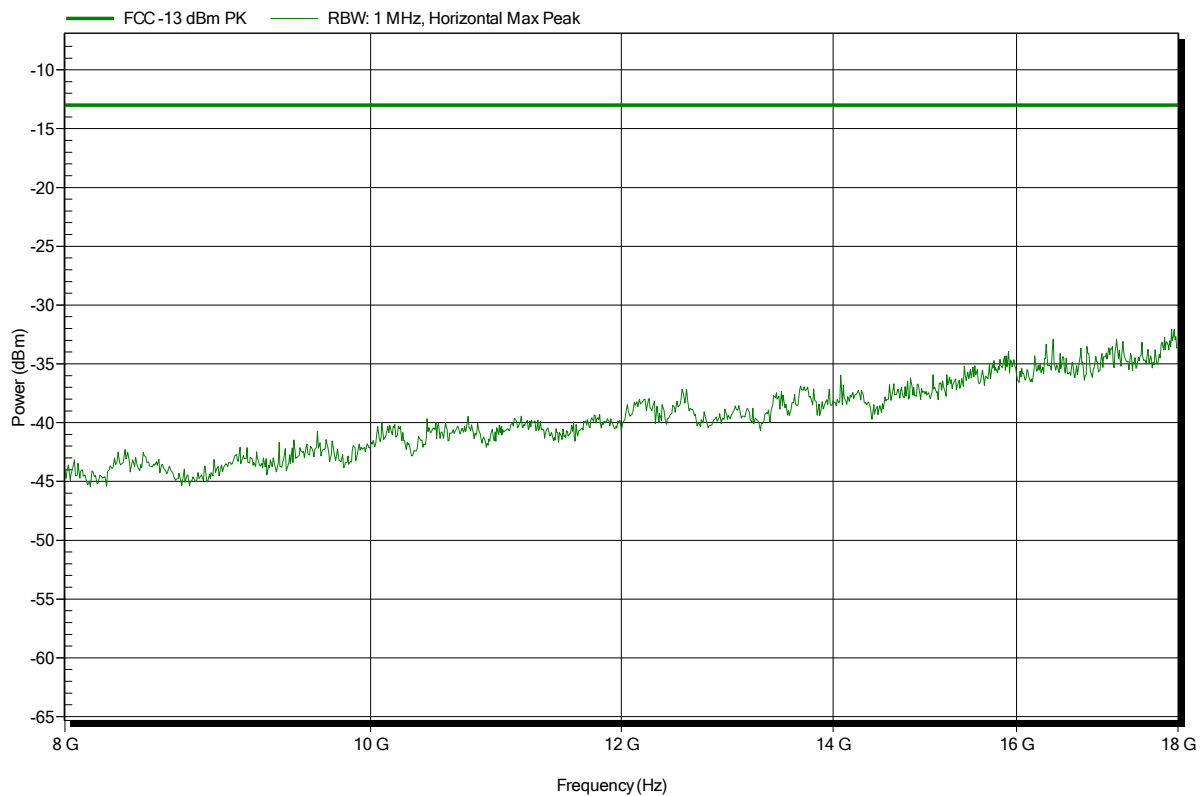


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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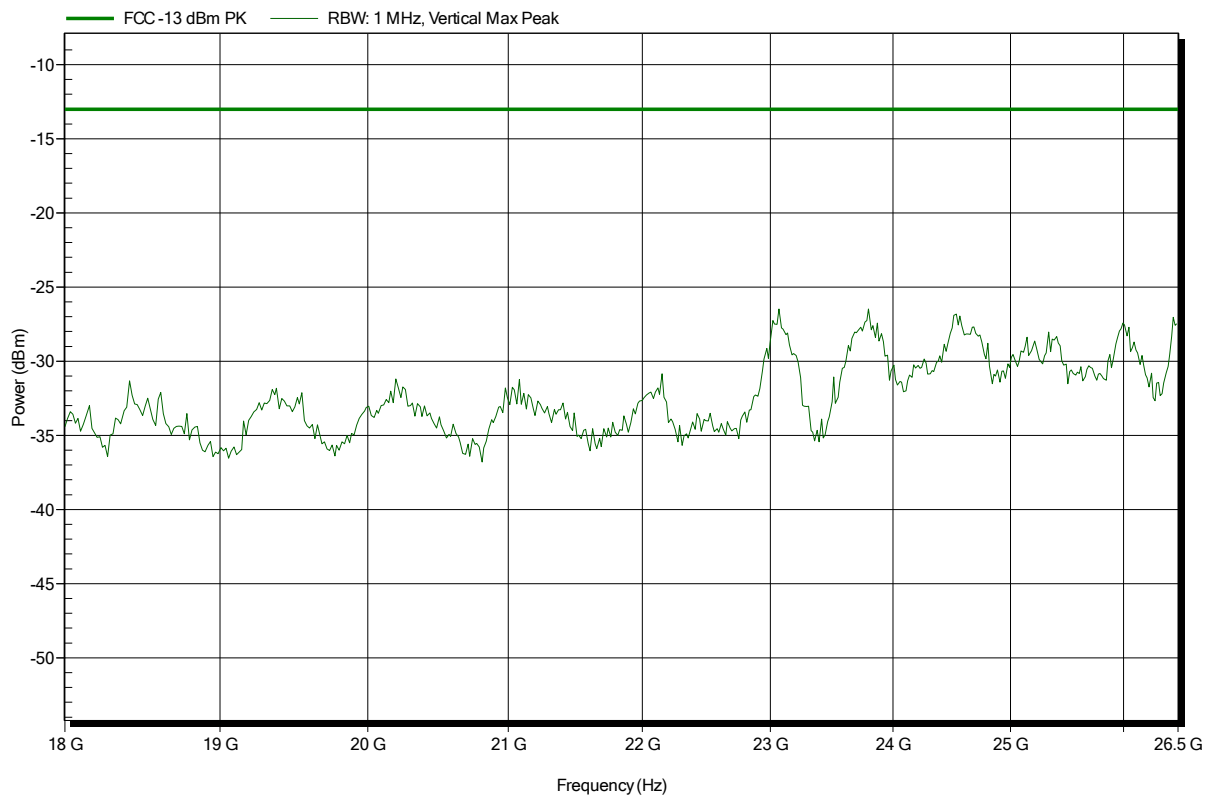


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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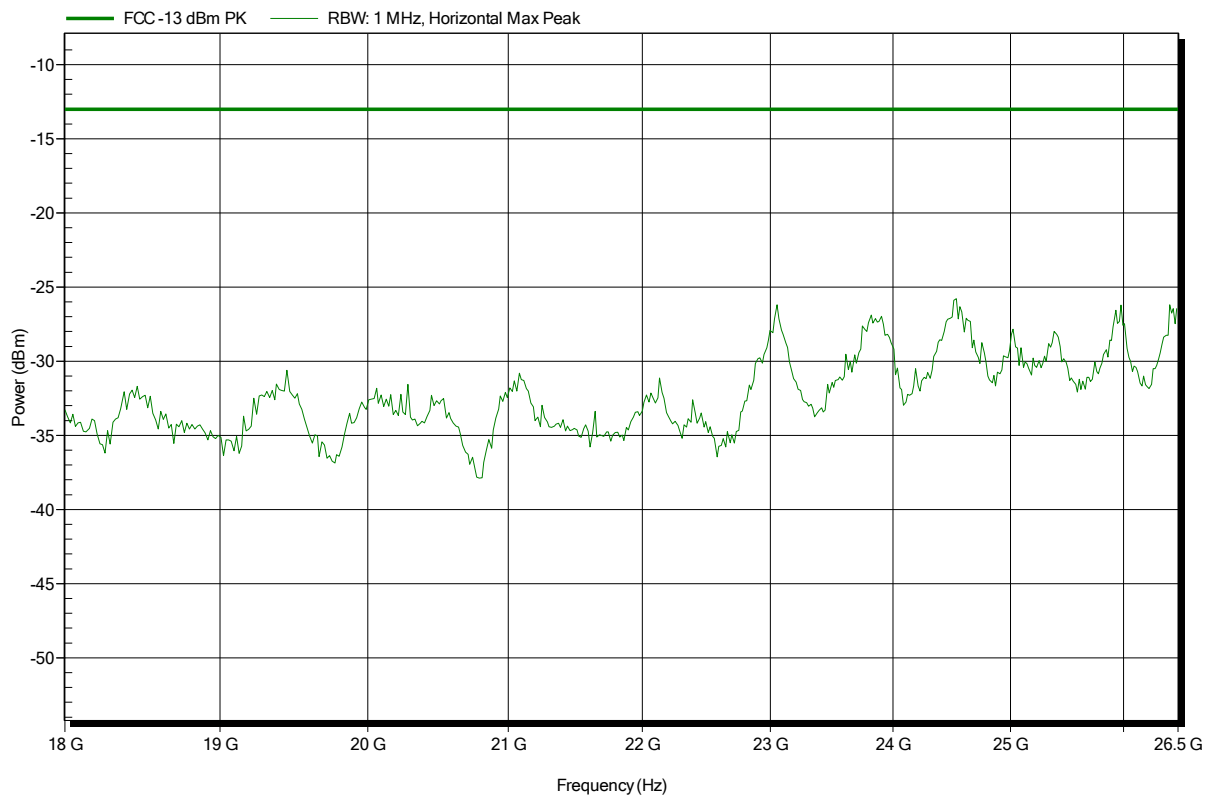


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 661, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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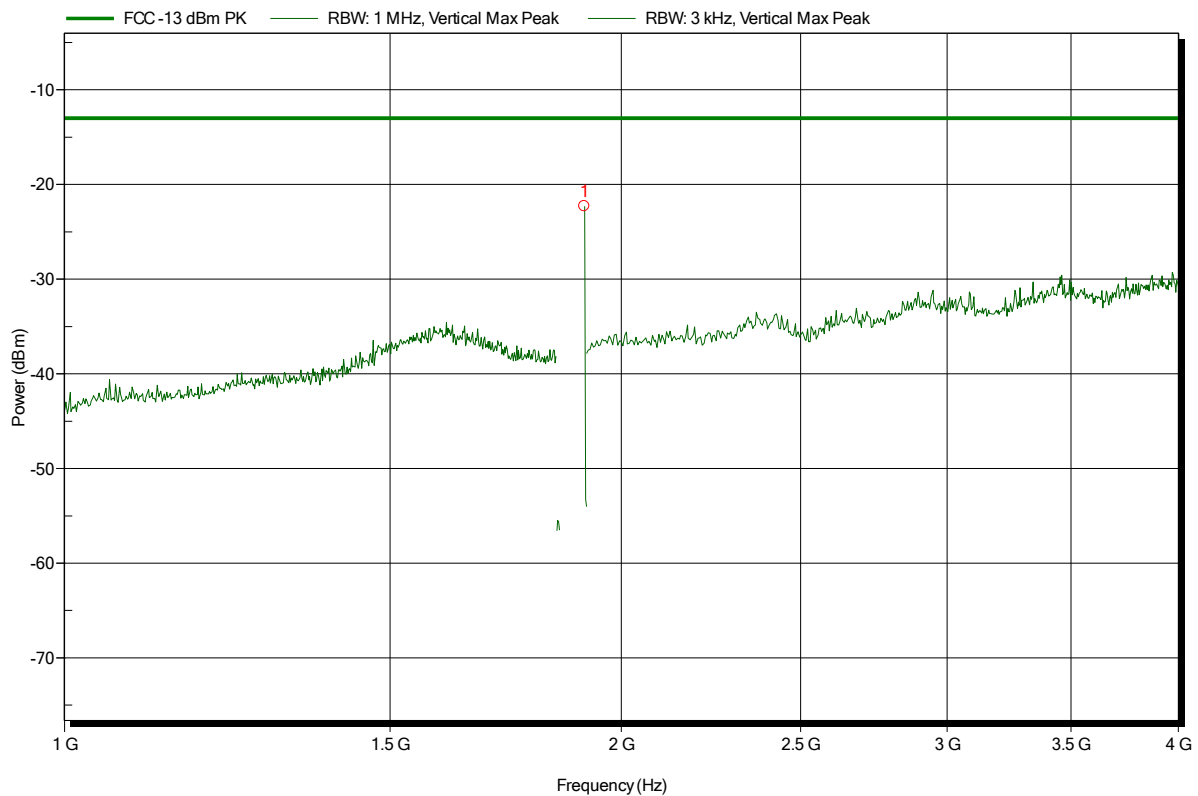


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
 Test Date: 2014-11-19
 Note: EUT vertical

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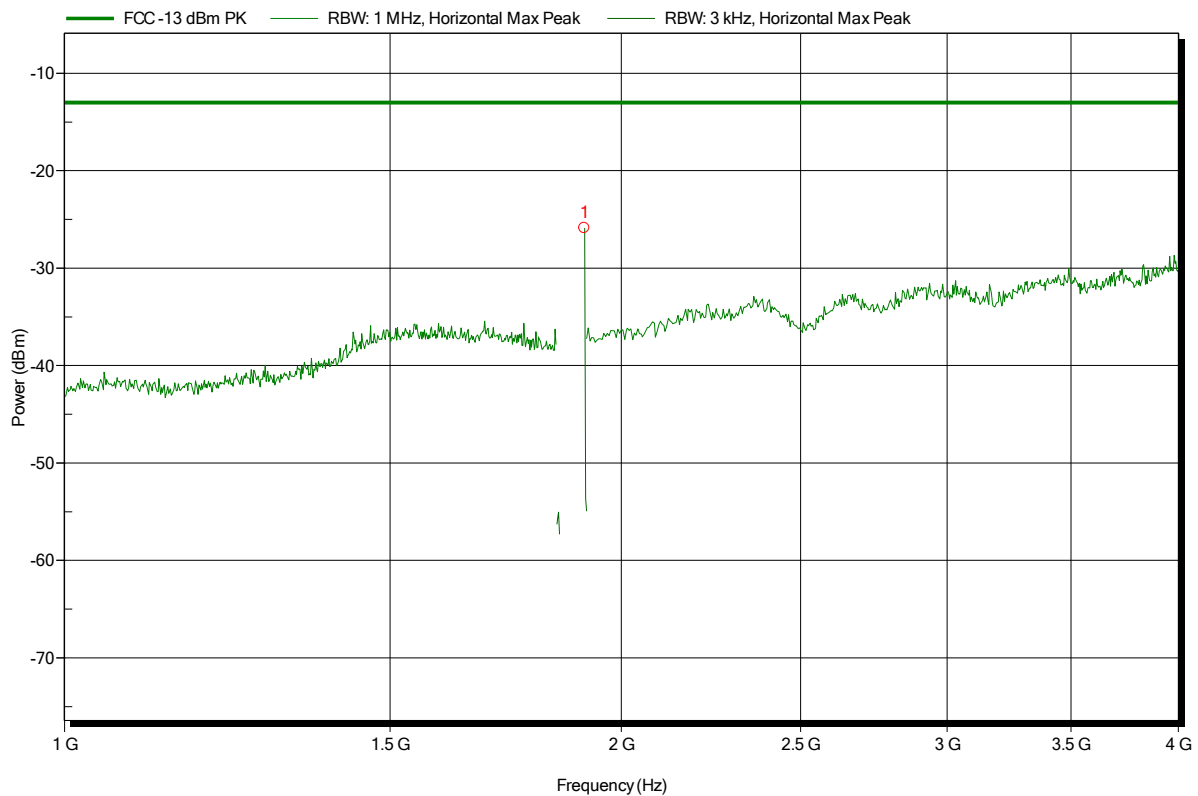
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.91 GHz	-22.3 dBm	-13 dBm	-9.3 dB	Pass

Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
 Test Date: 2014-11-19
 Note: EUT vertical

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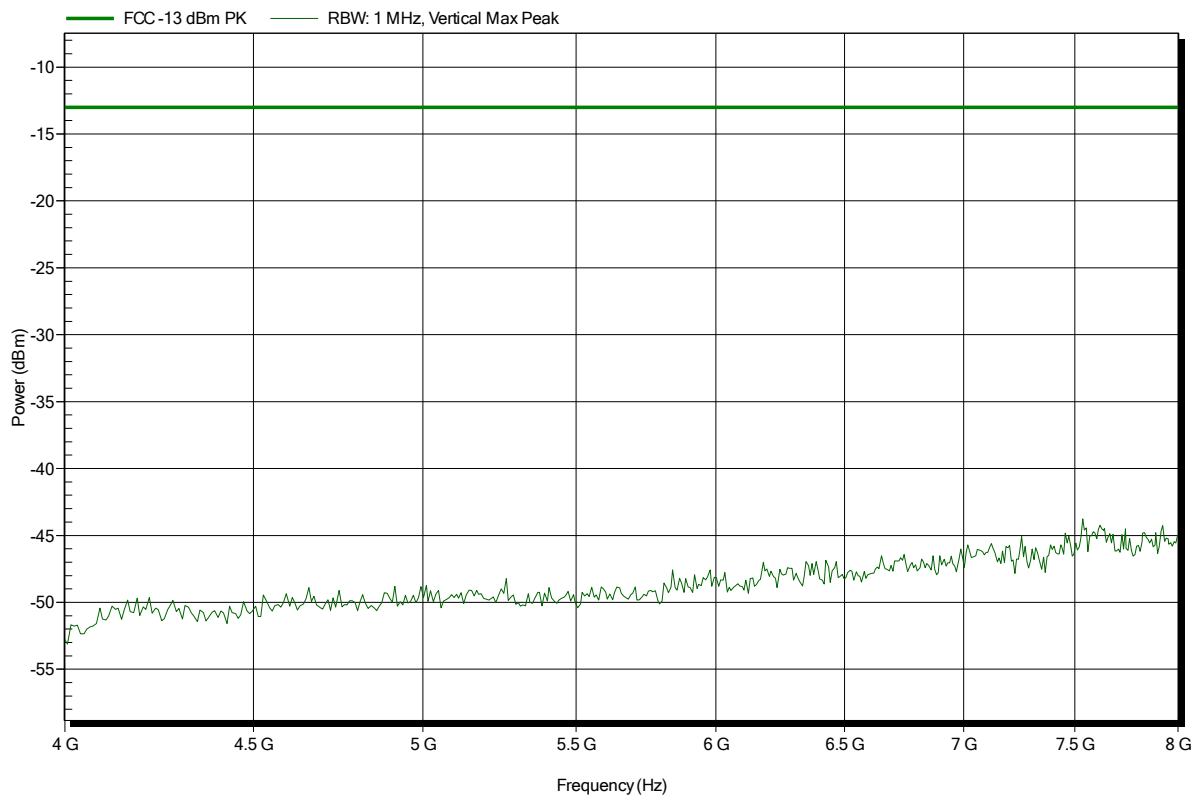
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.91 GHz	-25.9 dBm	-13 dBm	-12.9 dB	Pass

Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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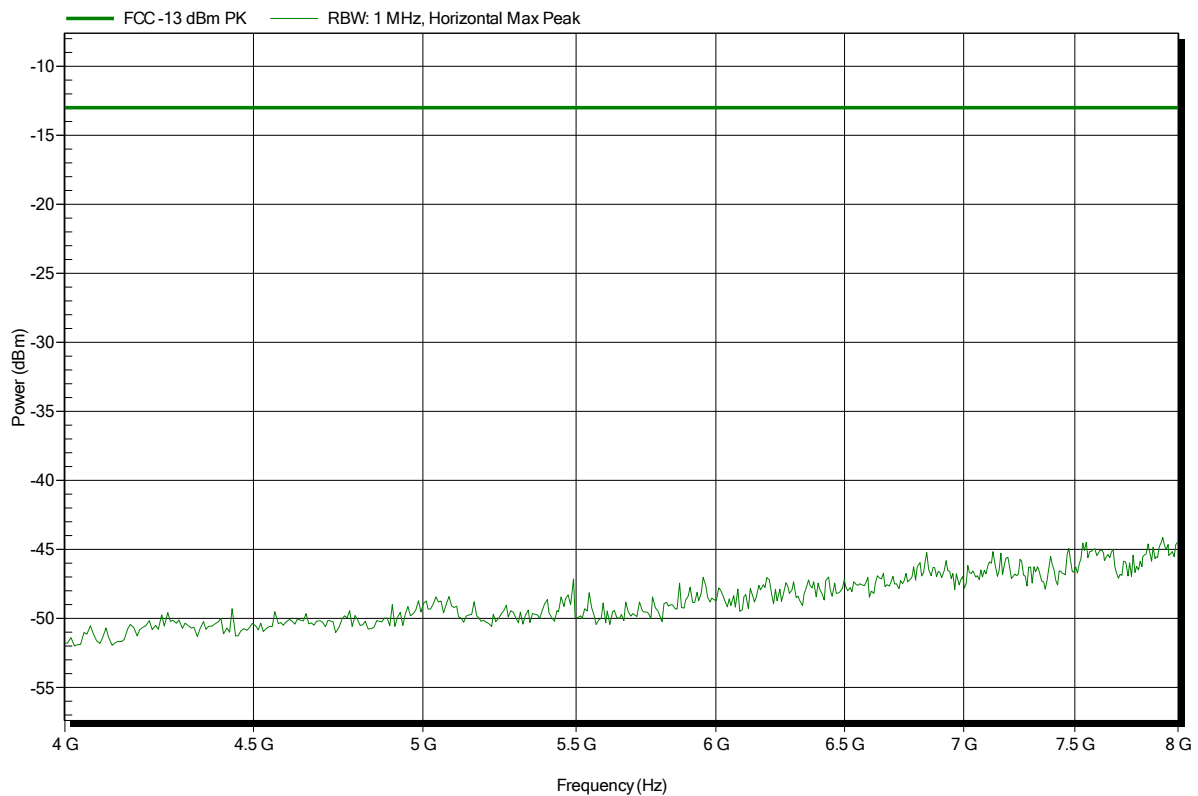


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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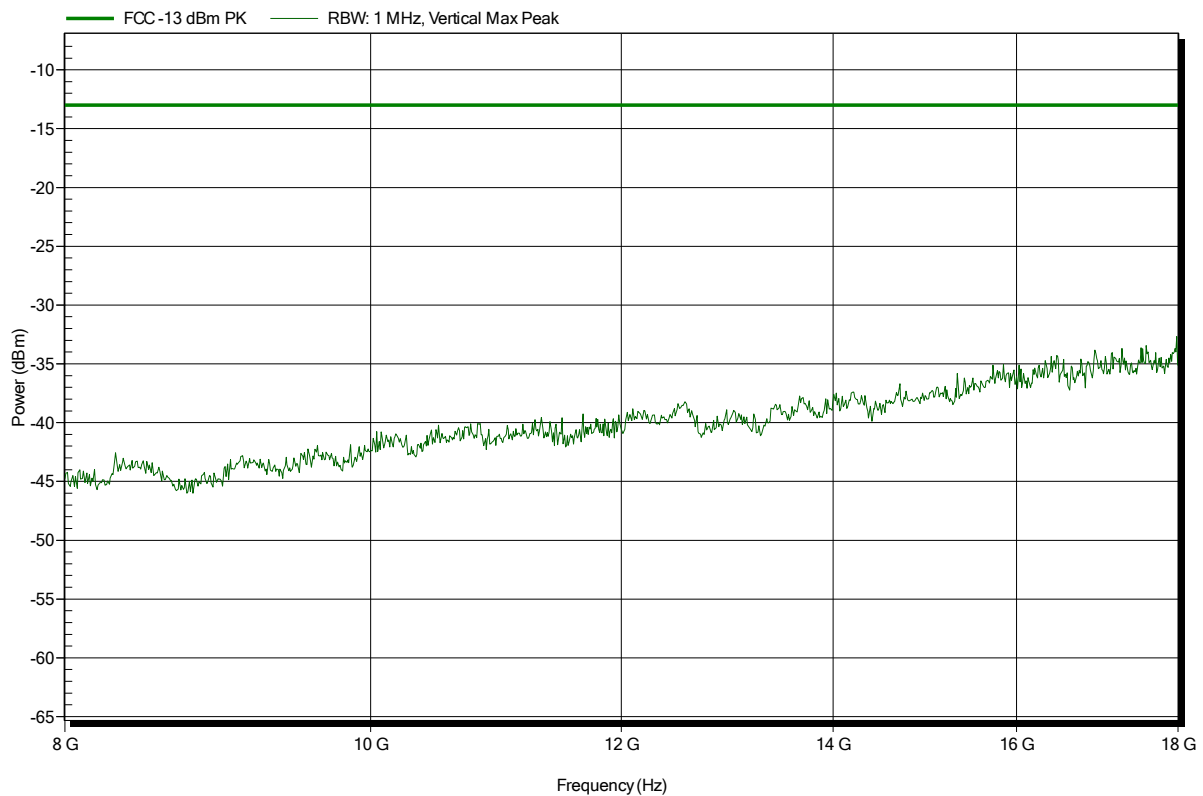


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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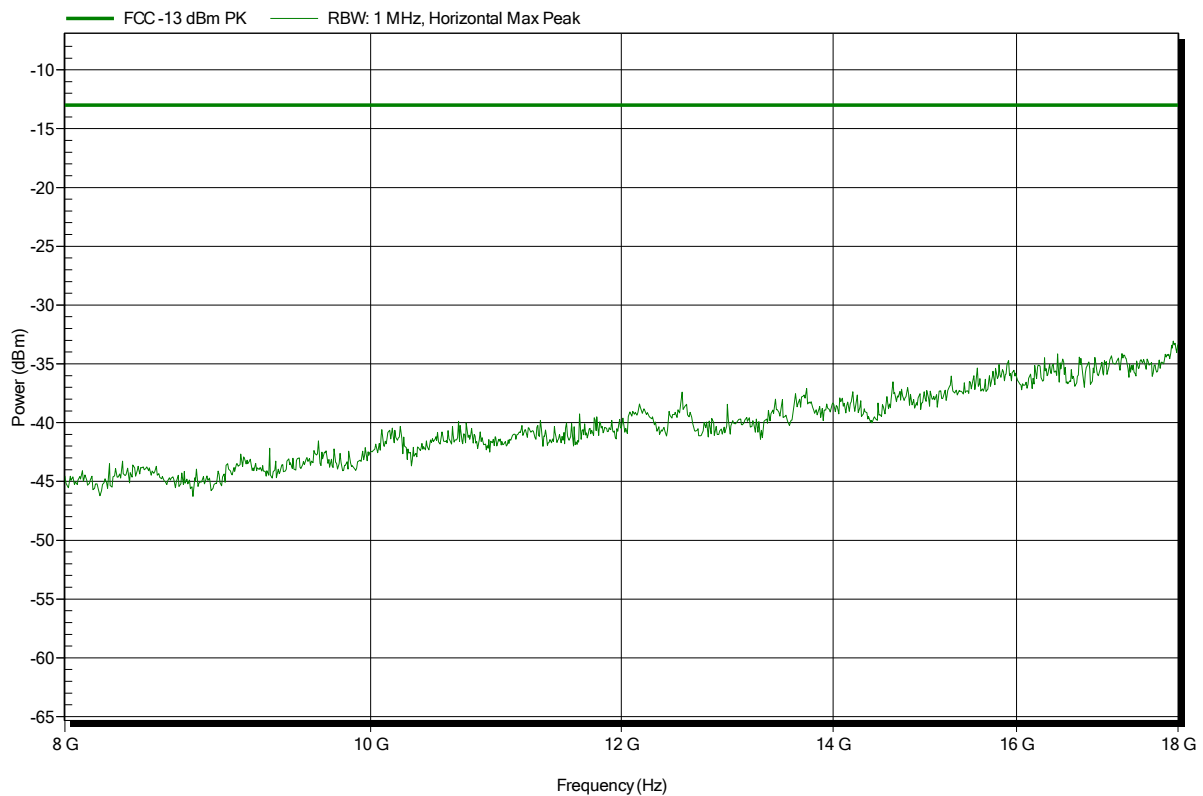


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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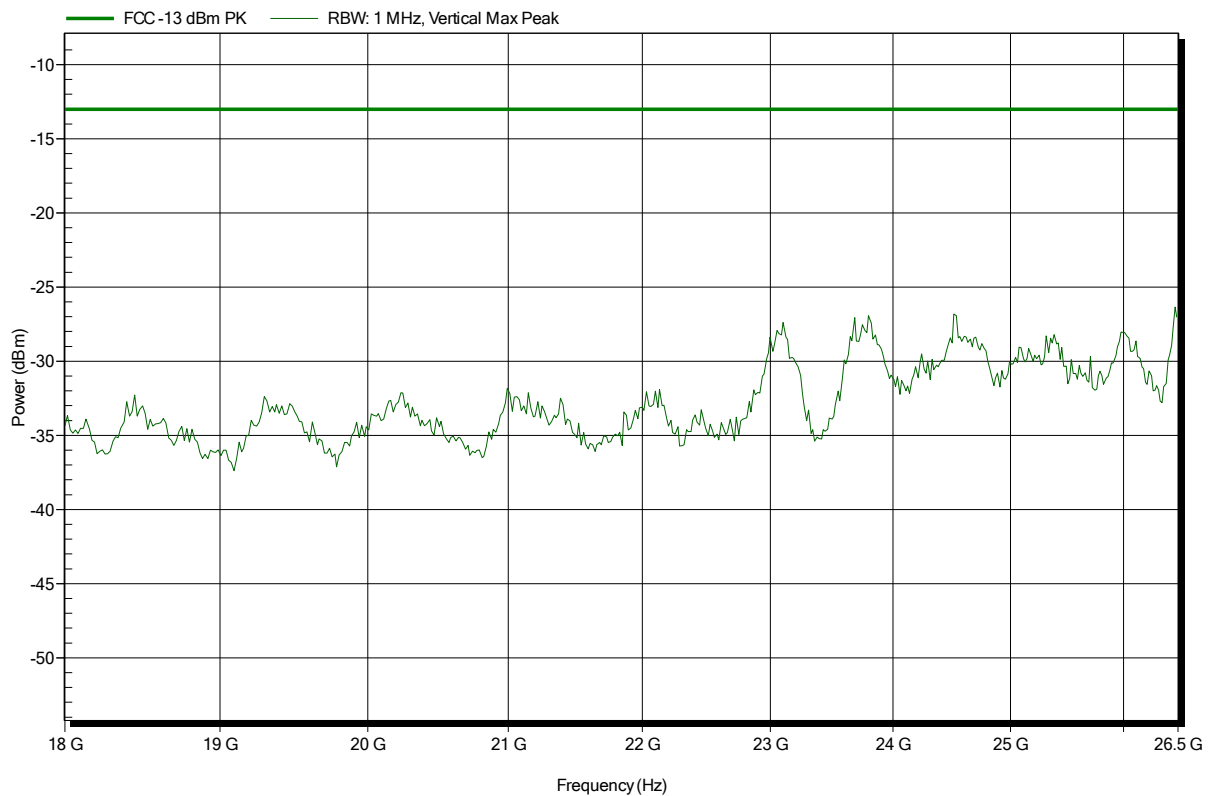


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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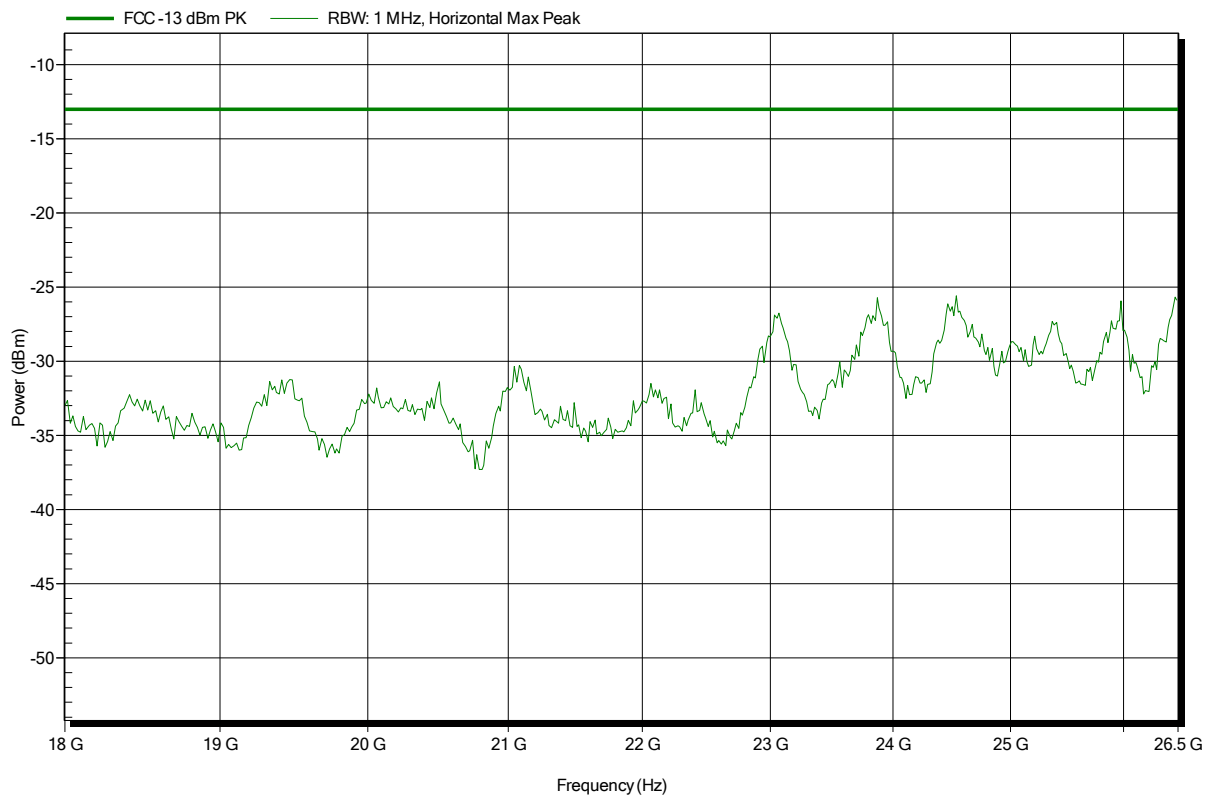


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; GPRS 1900, CH. 810, UL 1x Slot, Gamma 3
Test Date:	2014-11-19
Note:	EUT vertical

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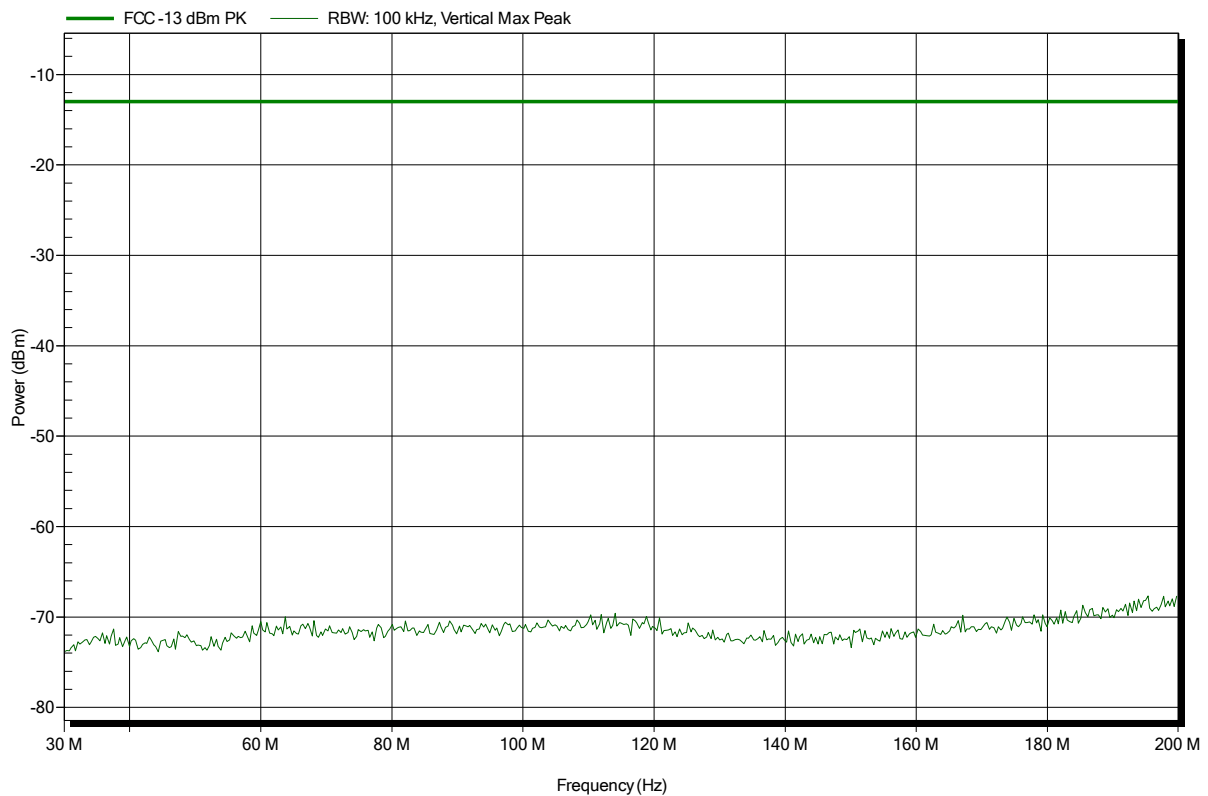


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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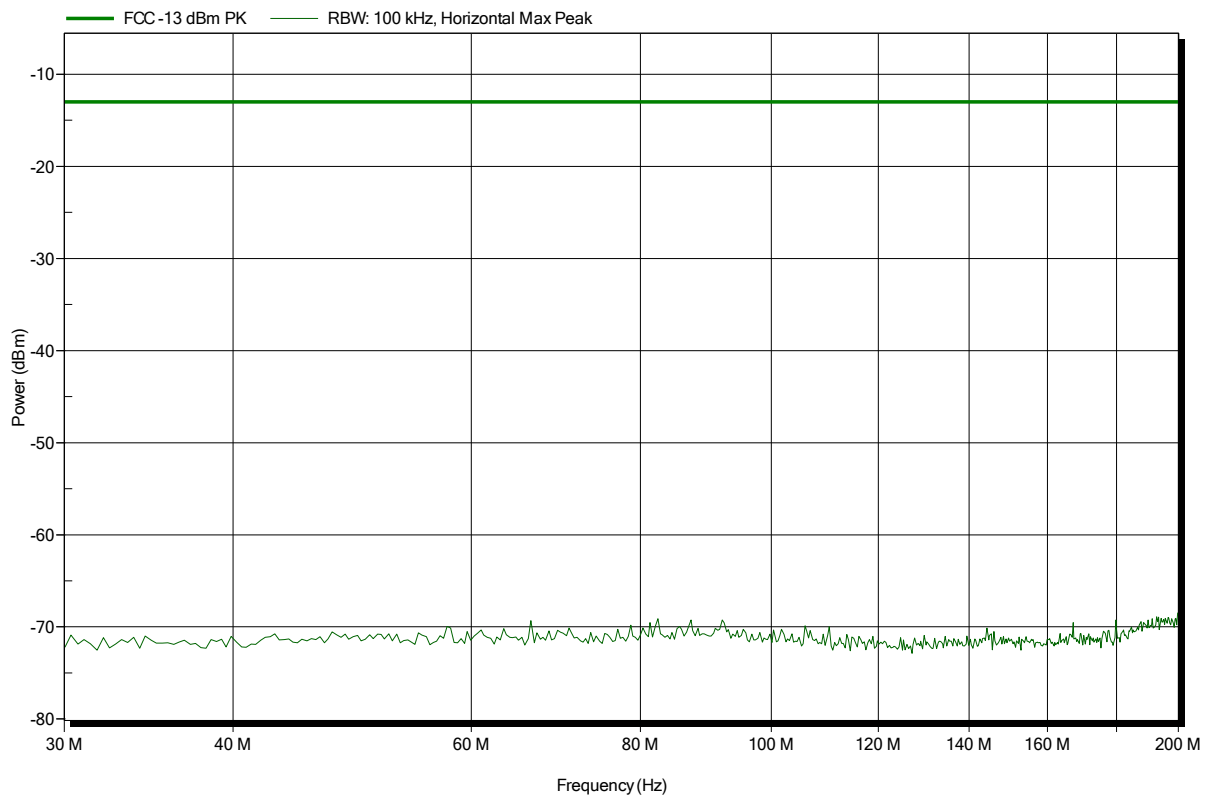


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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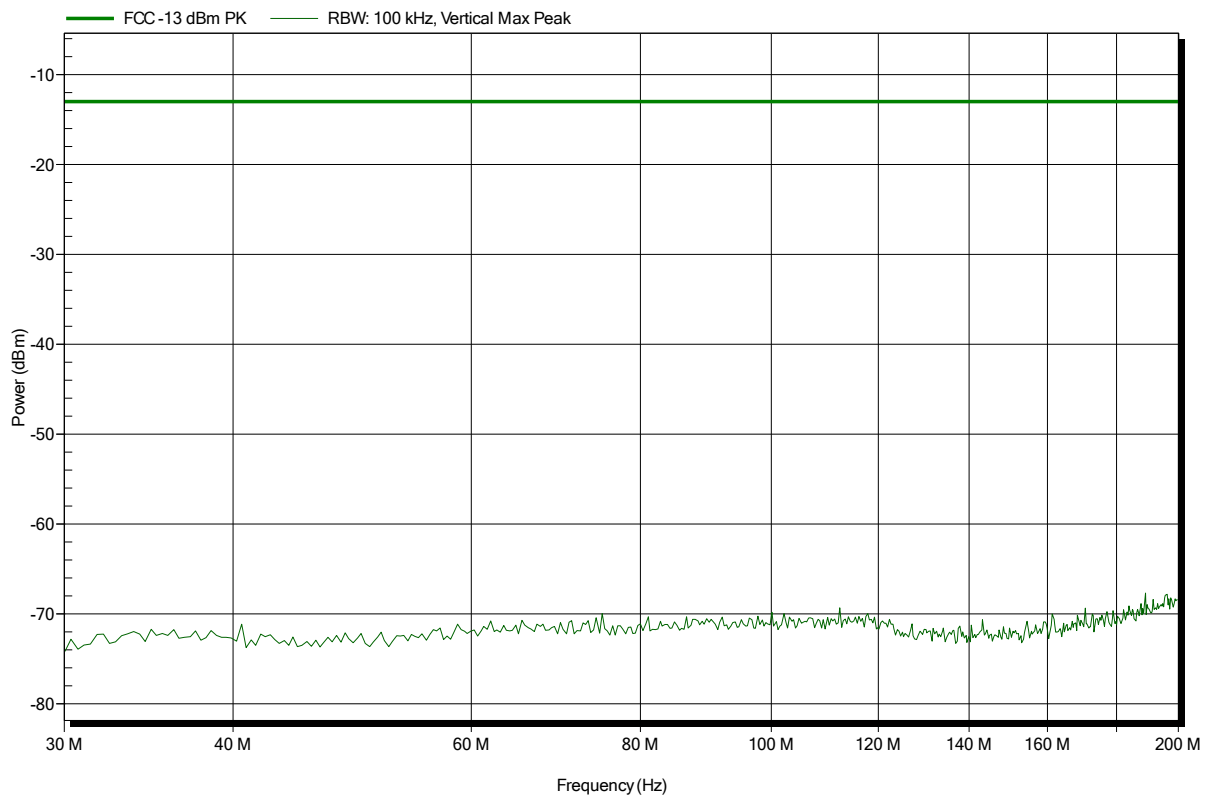


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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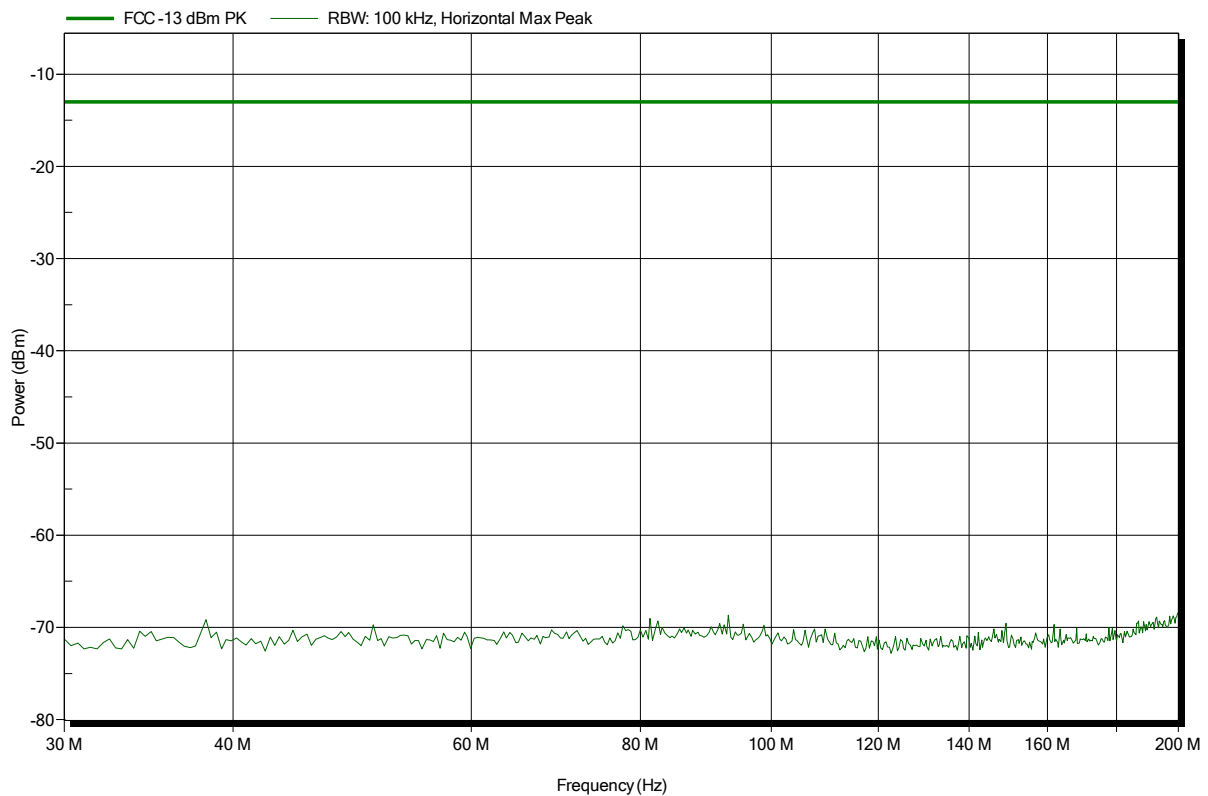


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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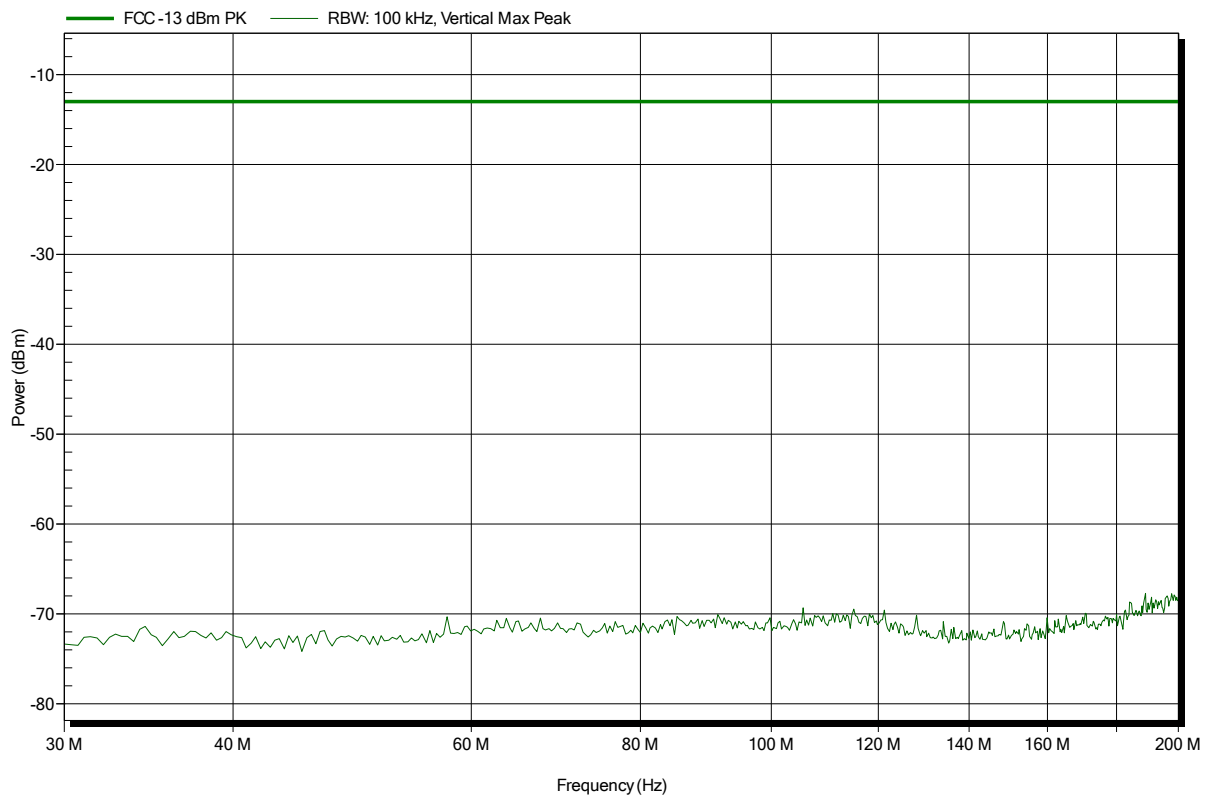


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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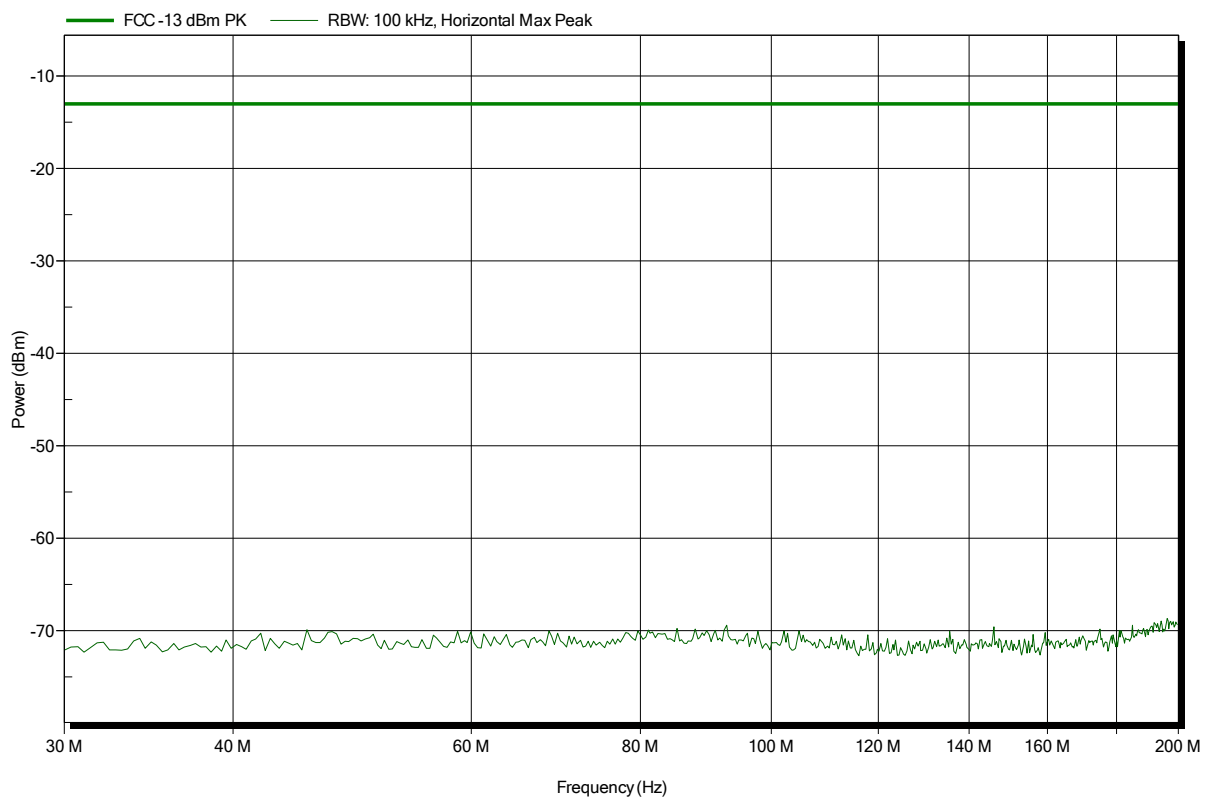


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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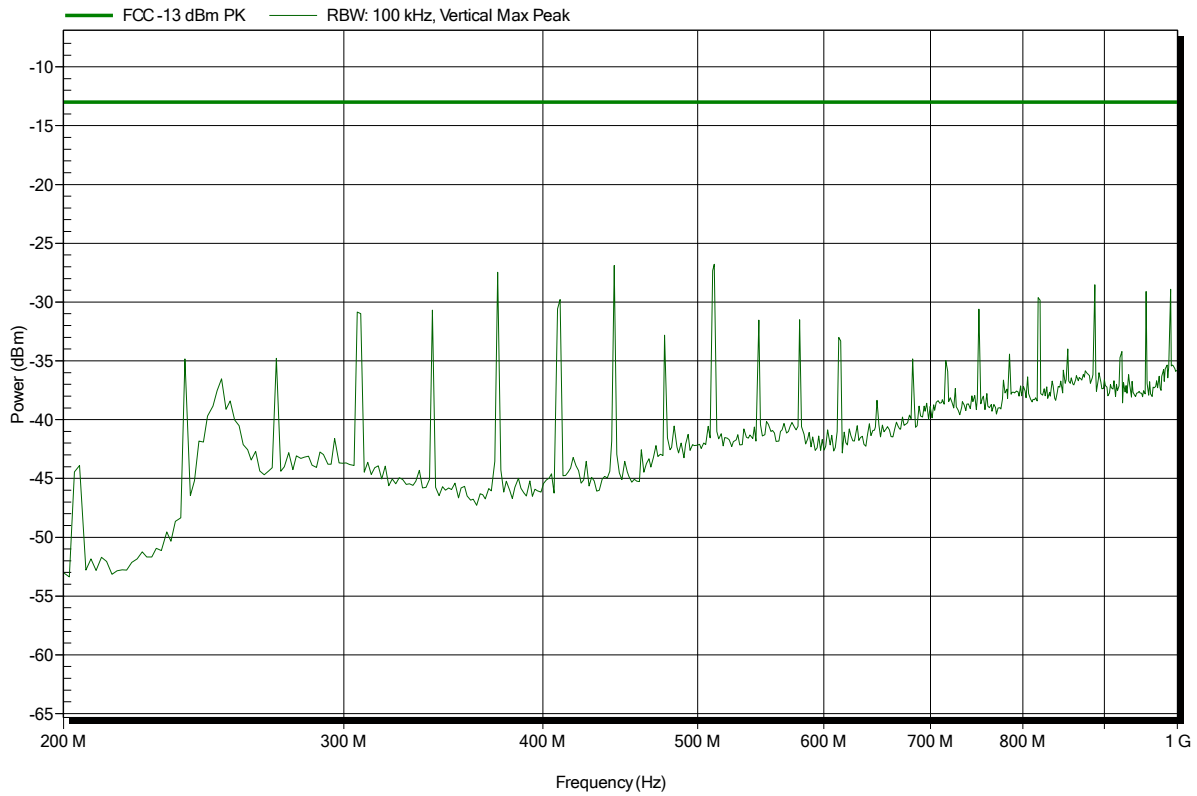


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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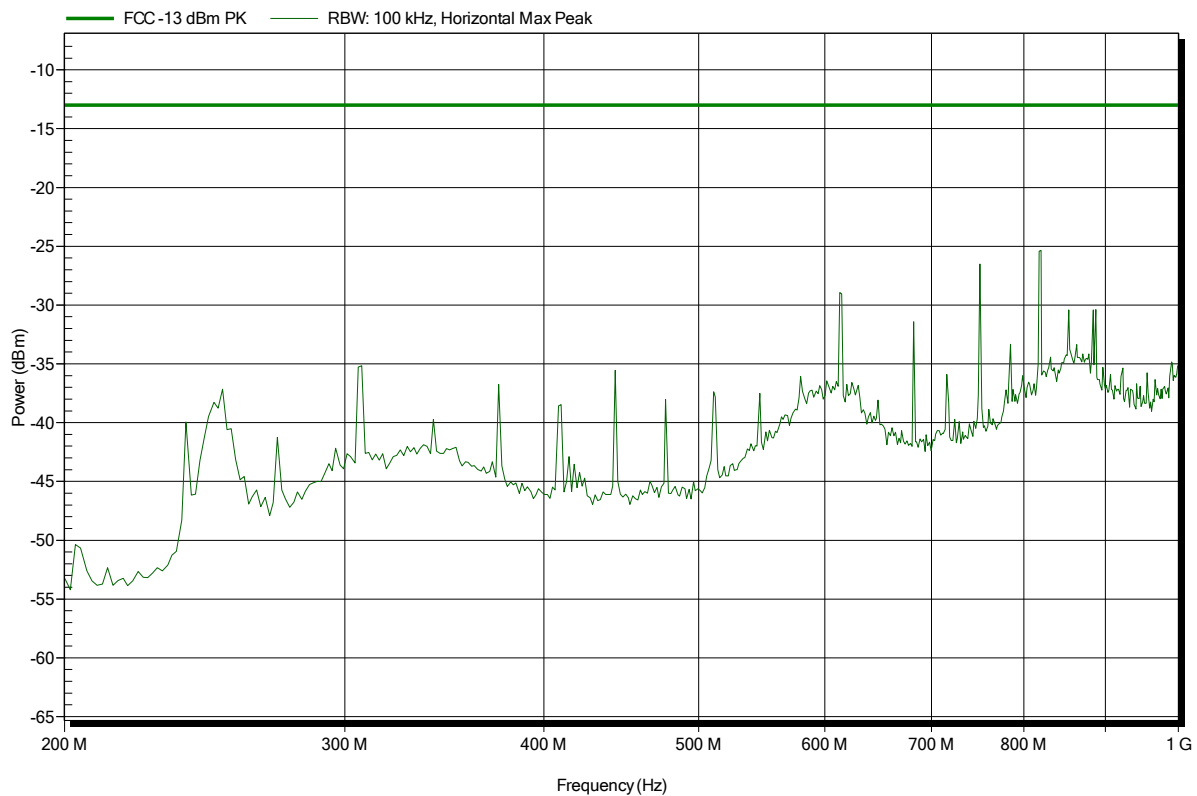


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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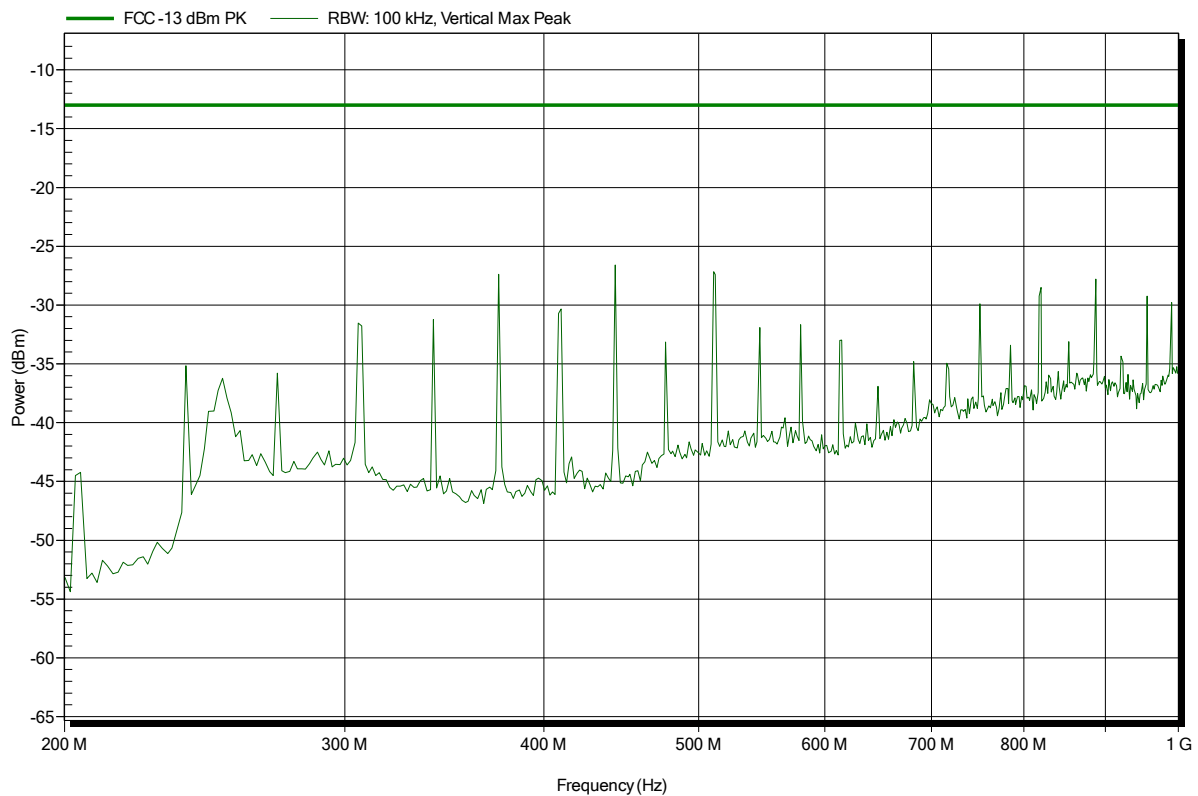


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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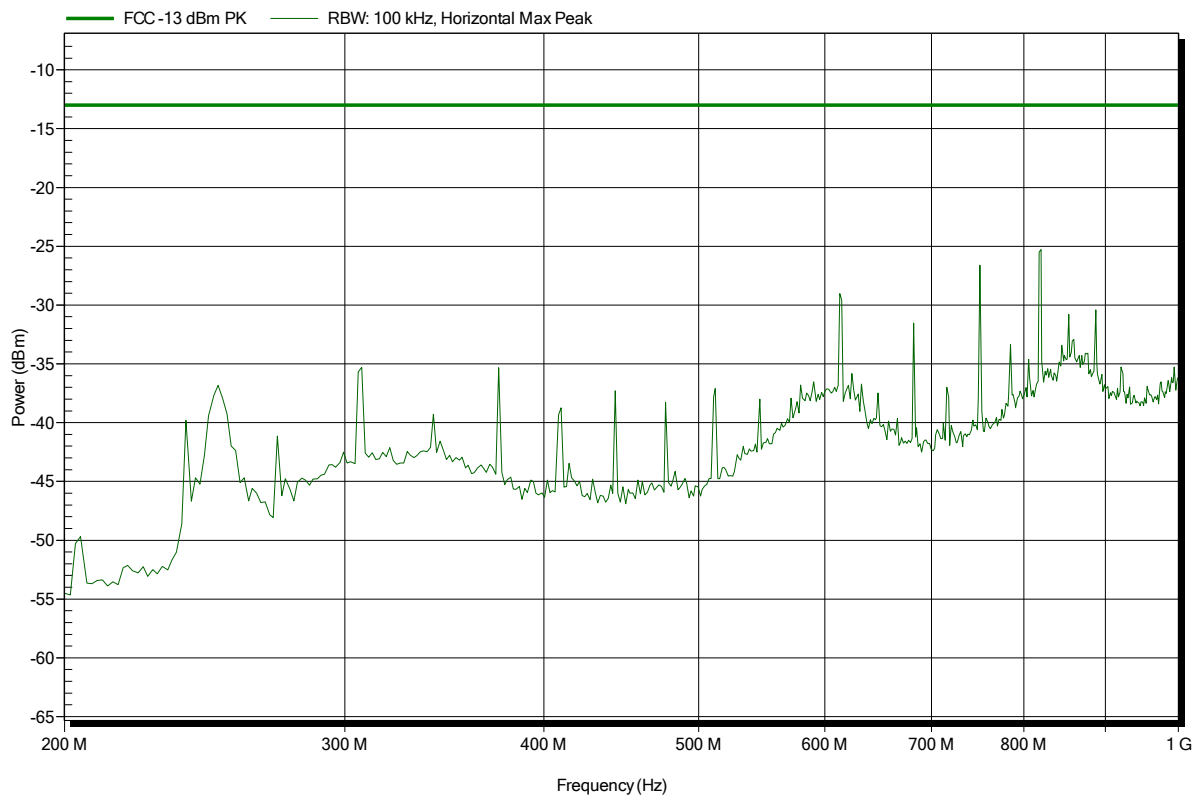


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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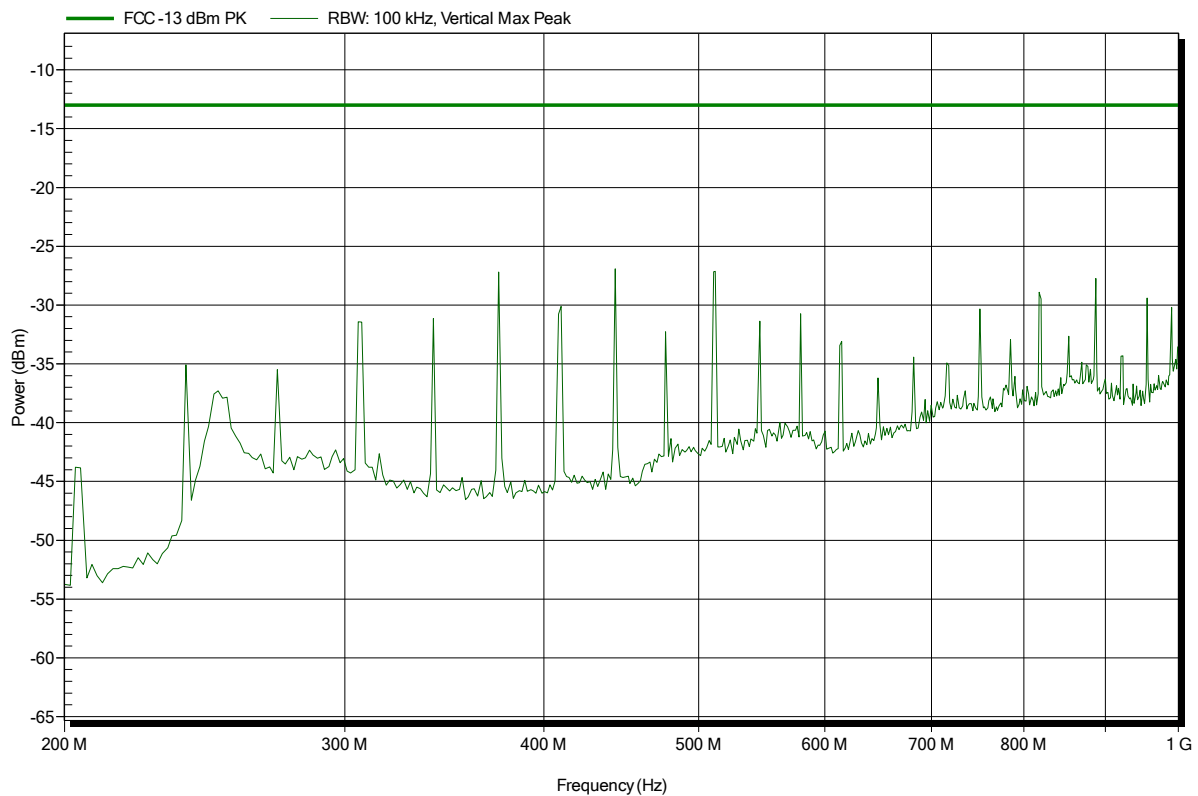


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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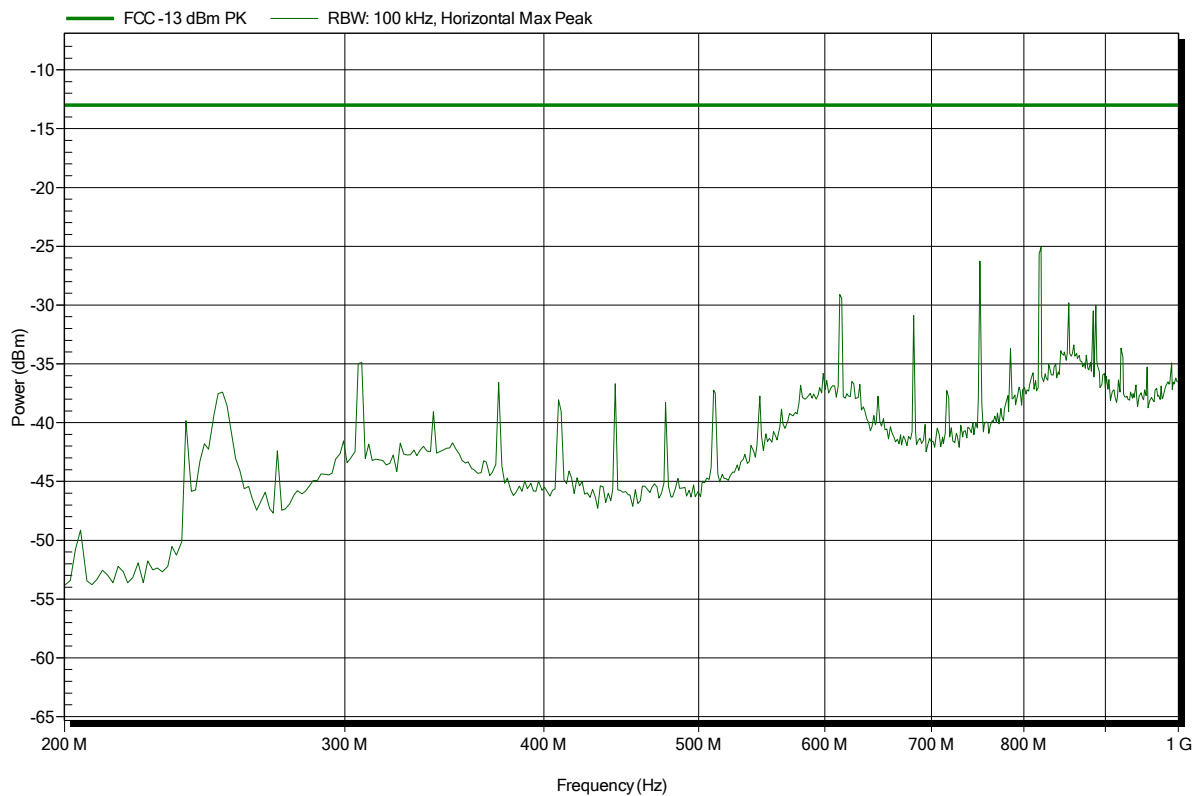


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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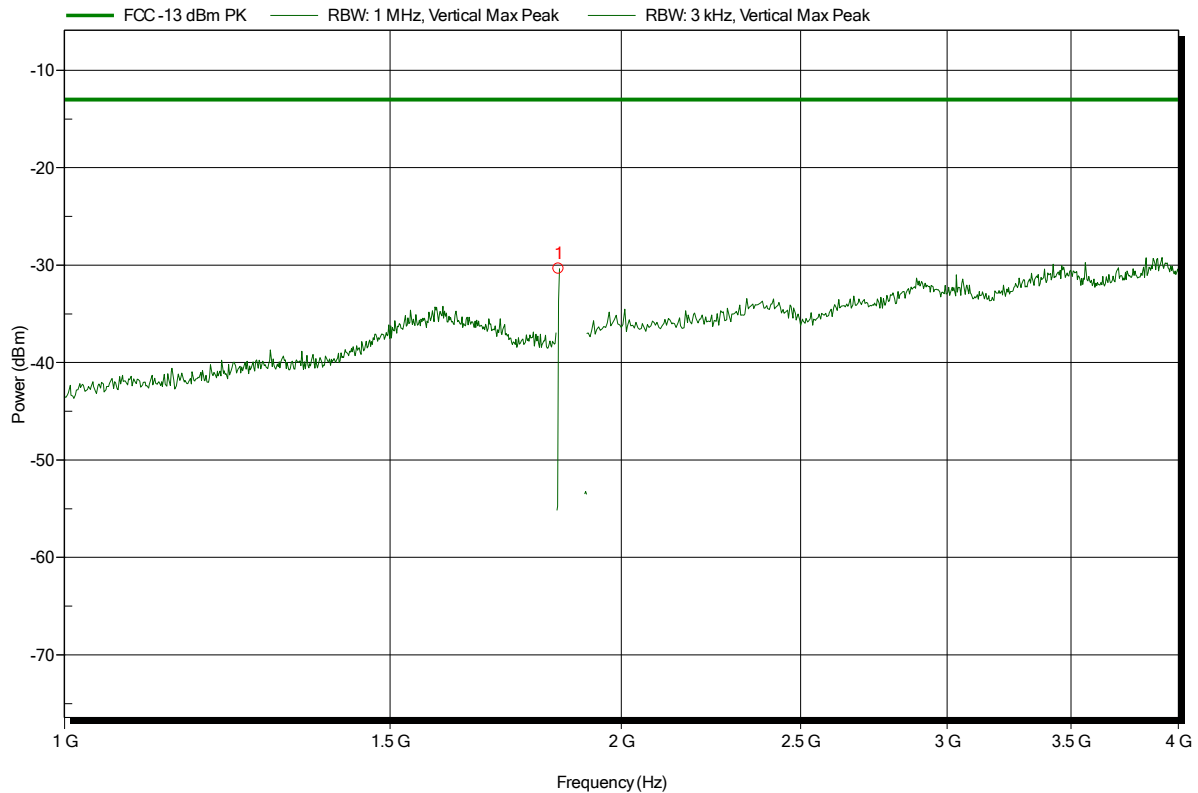


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
 Test Date: 2014-11-19
 Note: EUT vertical

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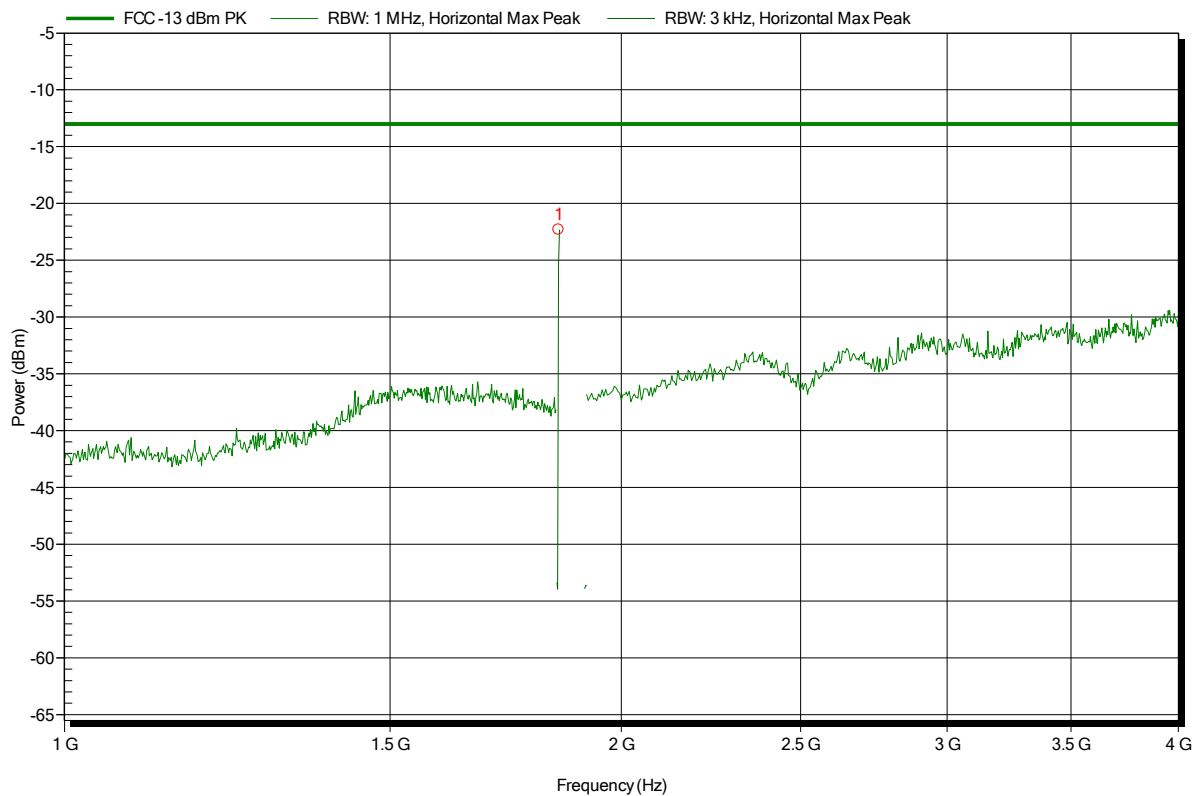
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.85 GHz	-30.4 dBm	-13 dBm	-17.36 dB	Pass

Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
 Test Date: 2014-11-19
 Note: EUT vertical

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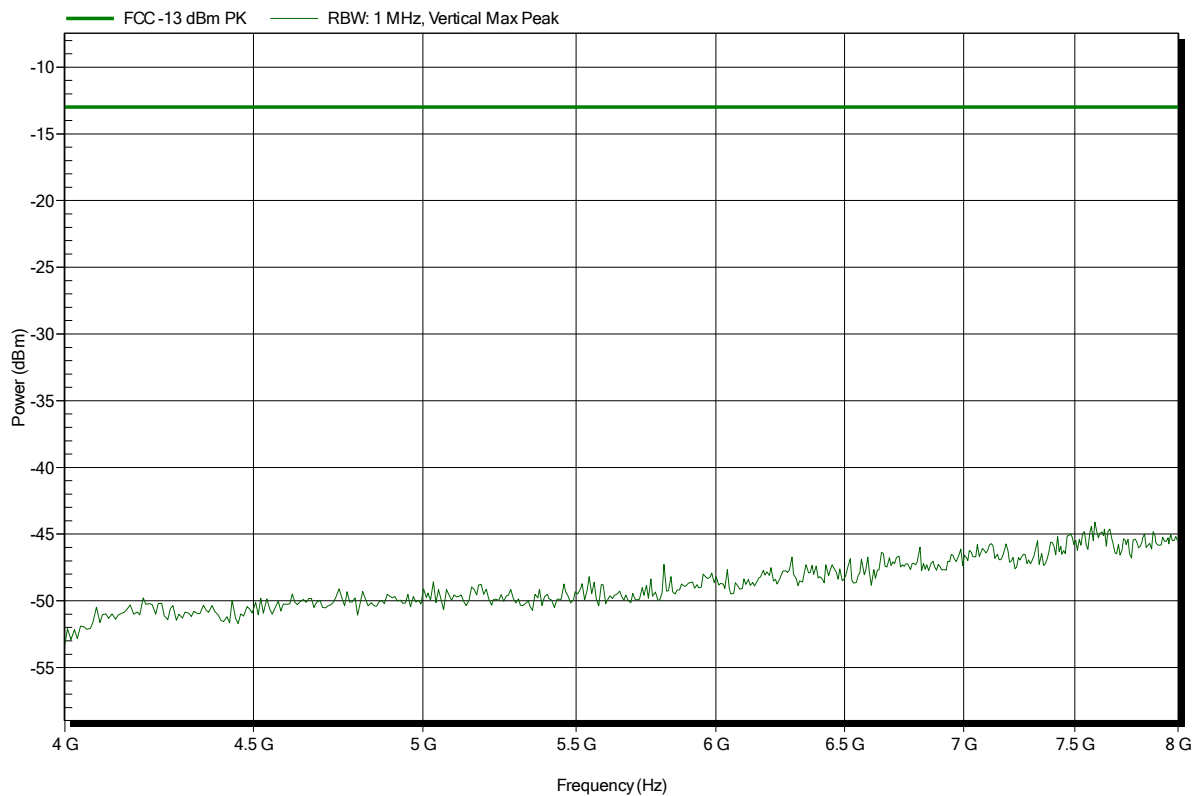
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.85 GHz	-22.3 dBm	-13 dBm	-9.32 dB	Pass

Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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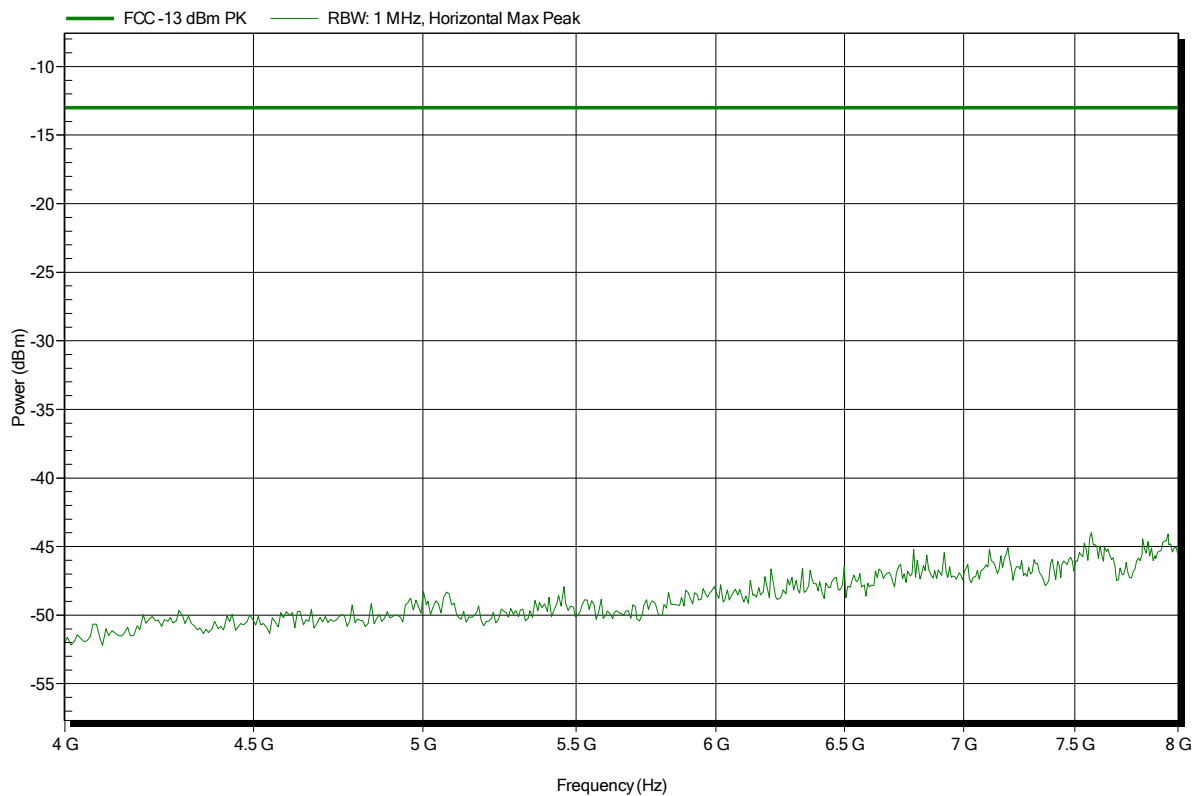


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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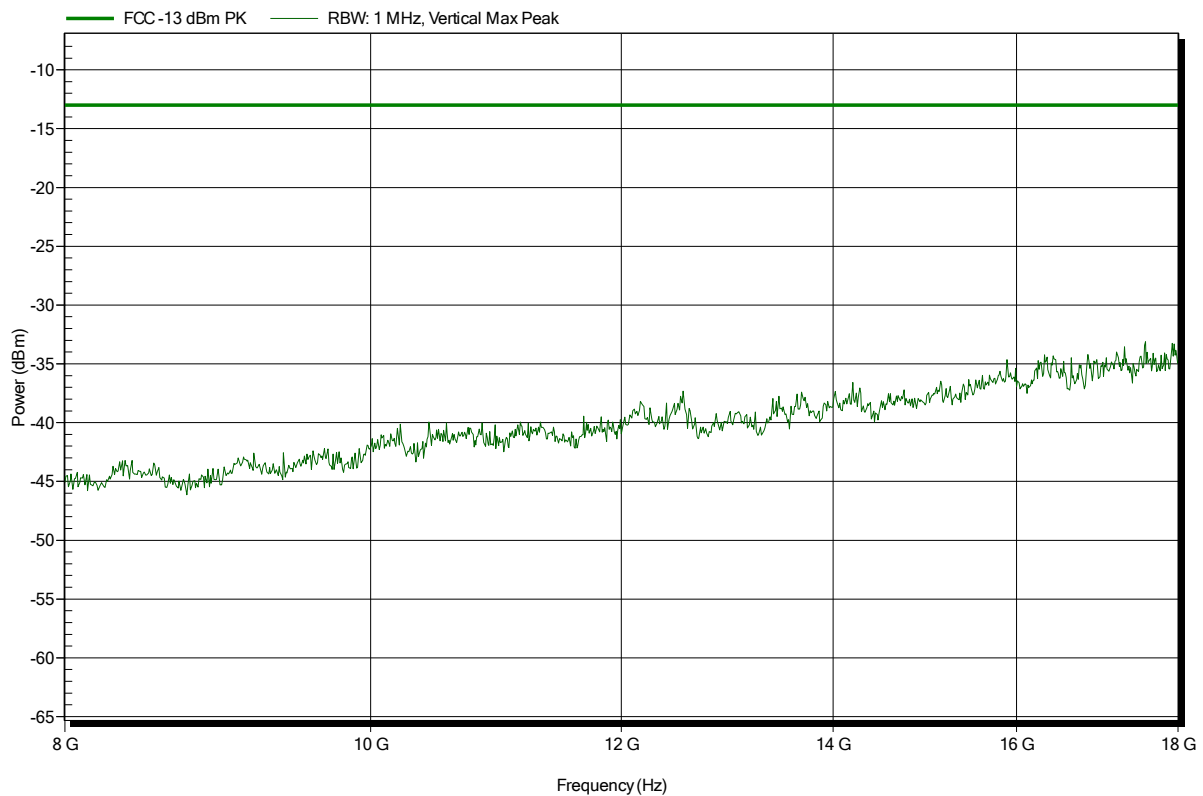


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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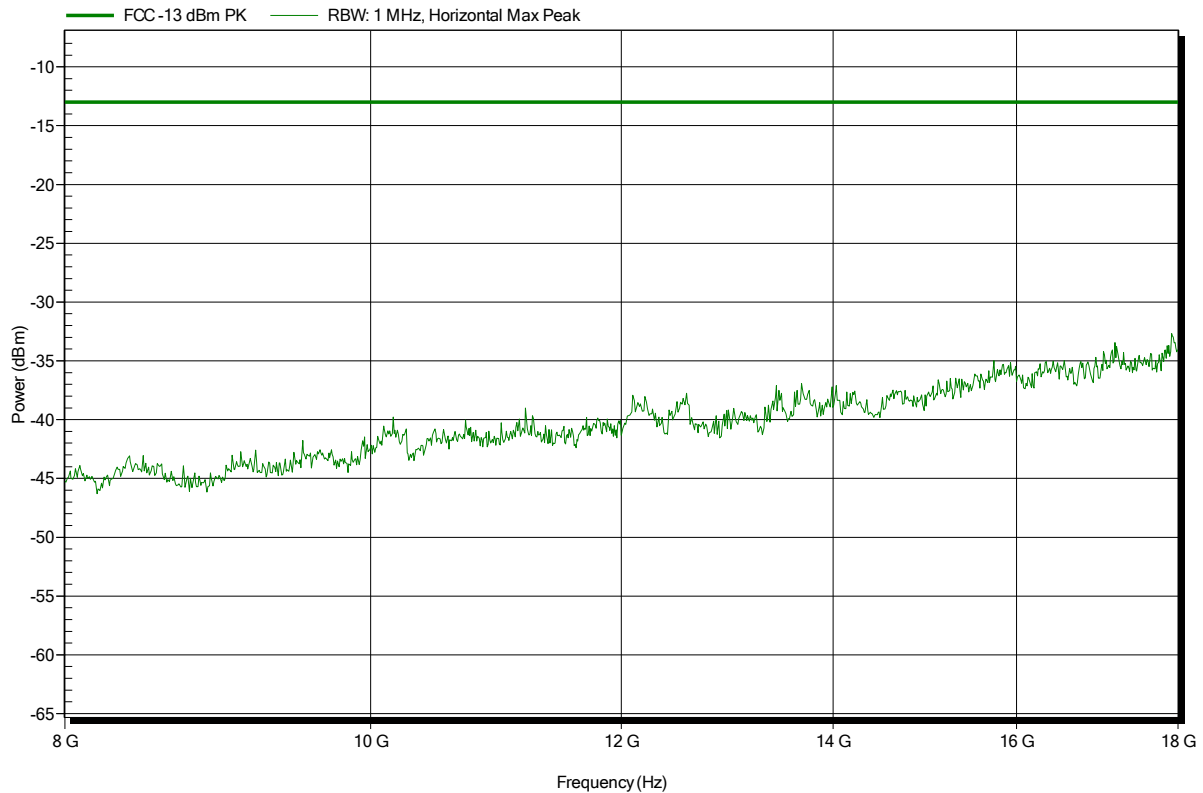


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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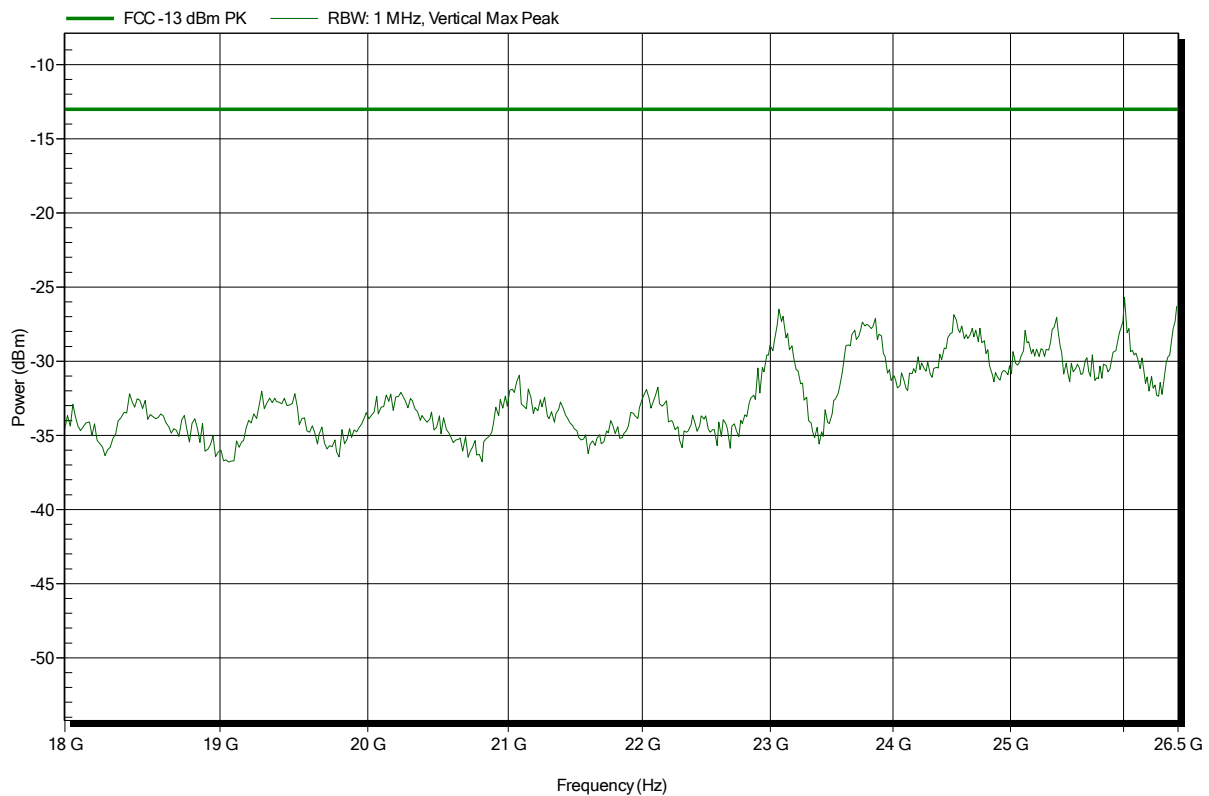


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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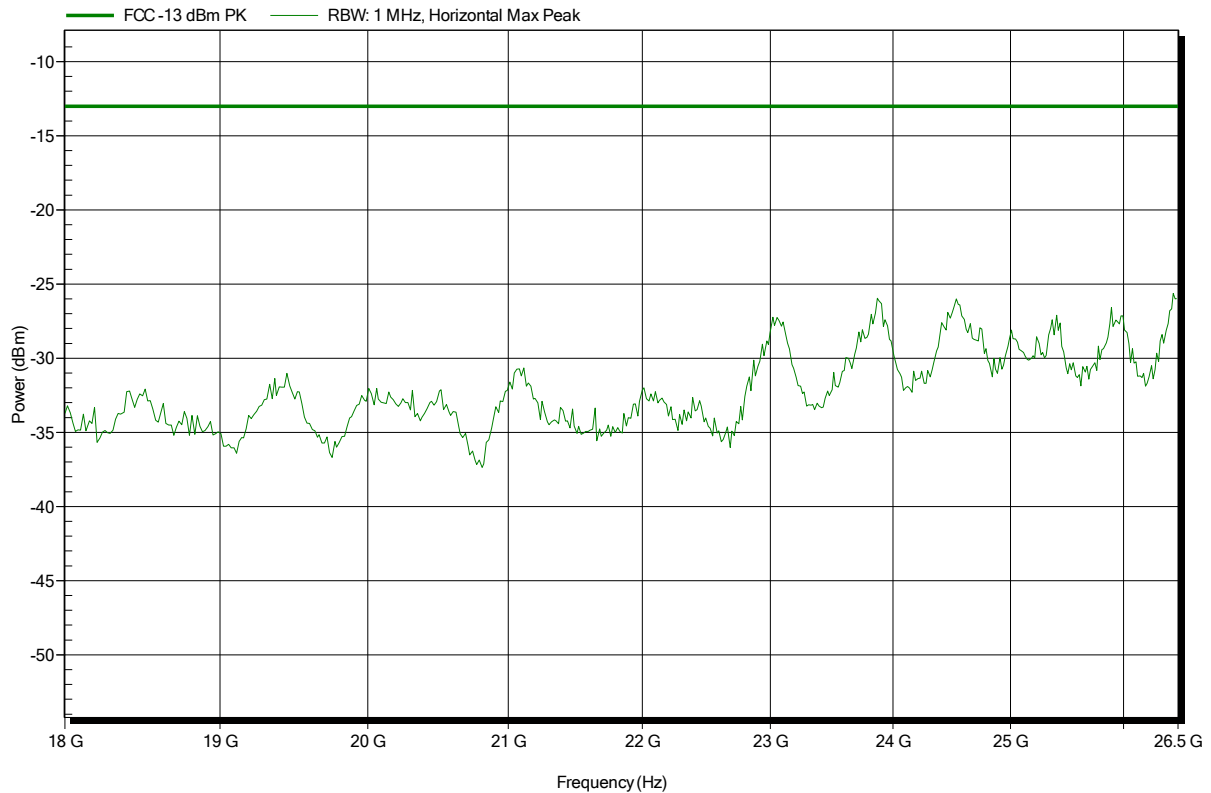


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 512, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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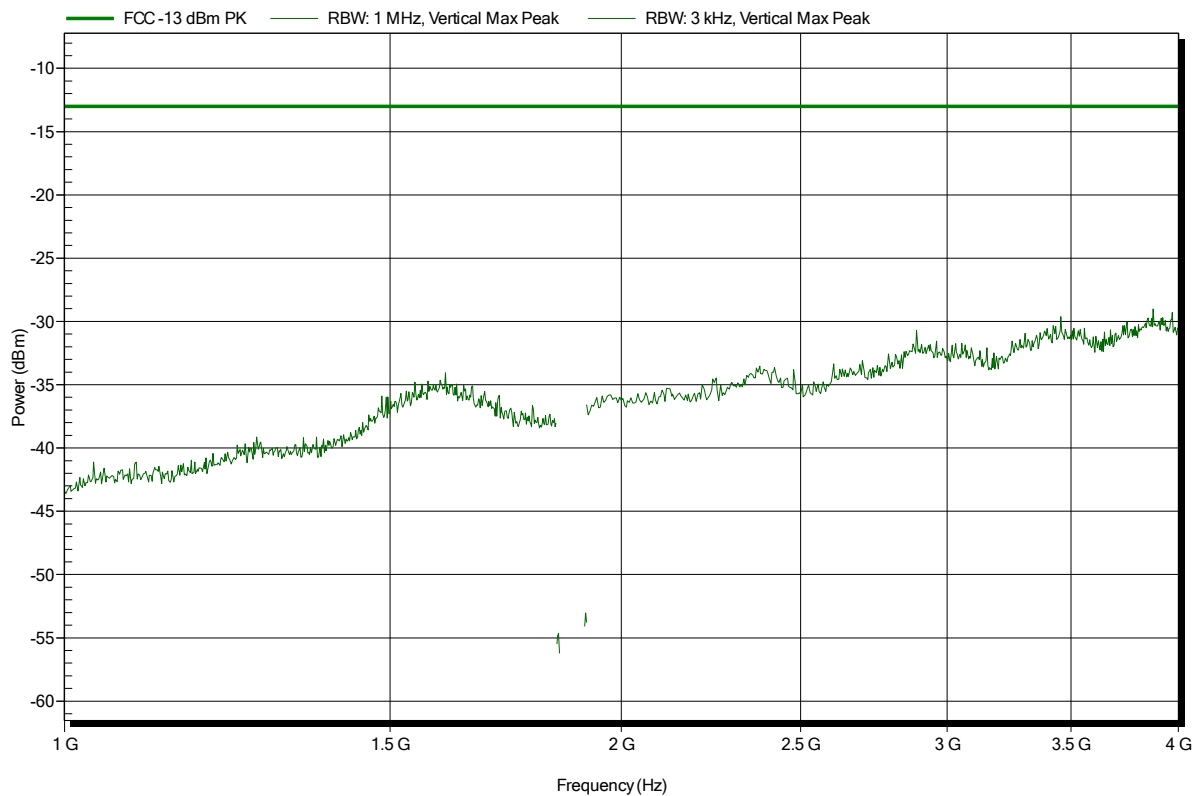


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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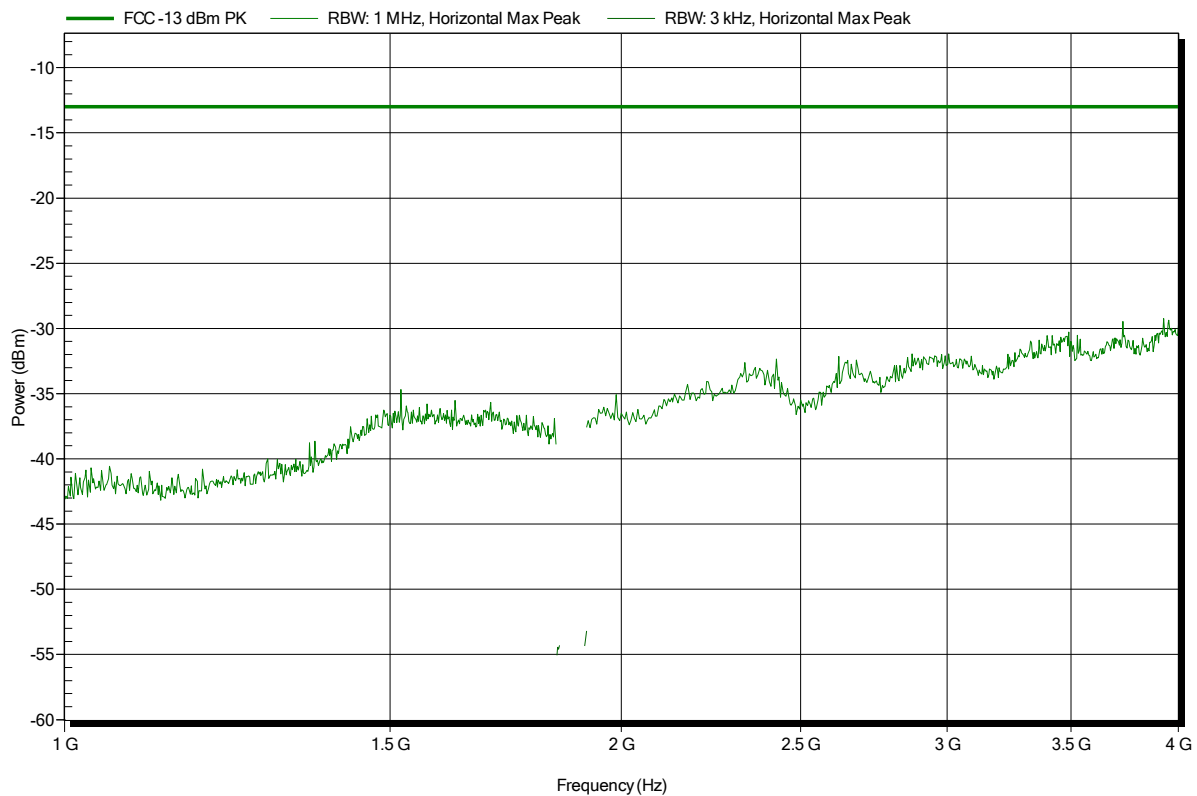


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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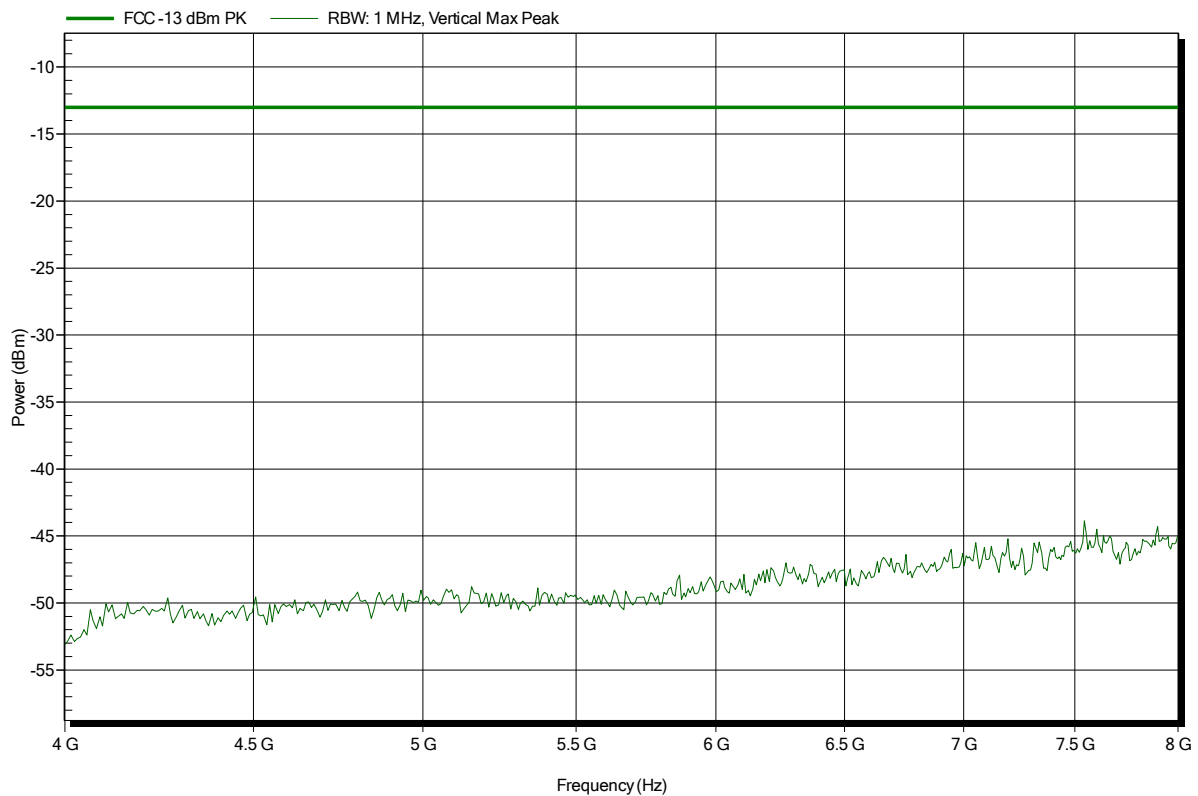


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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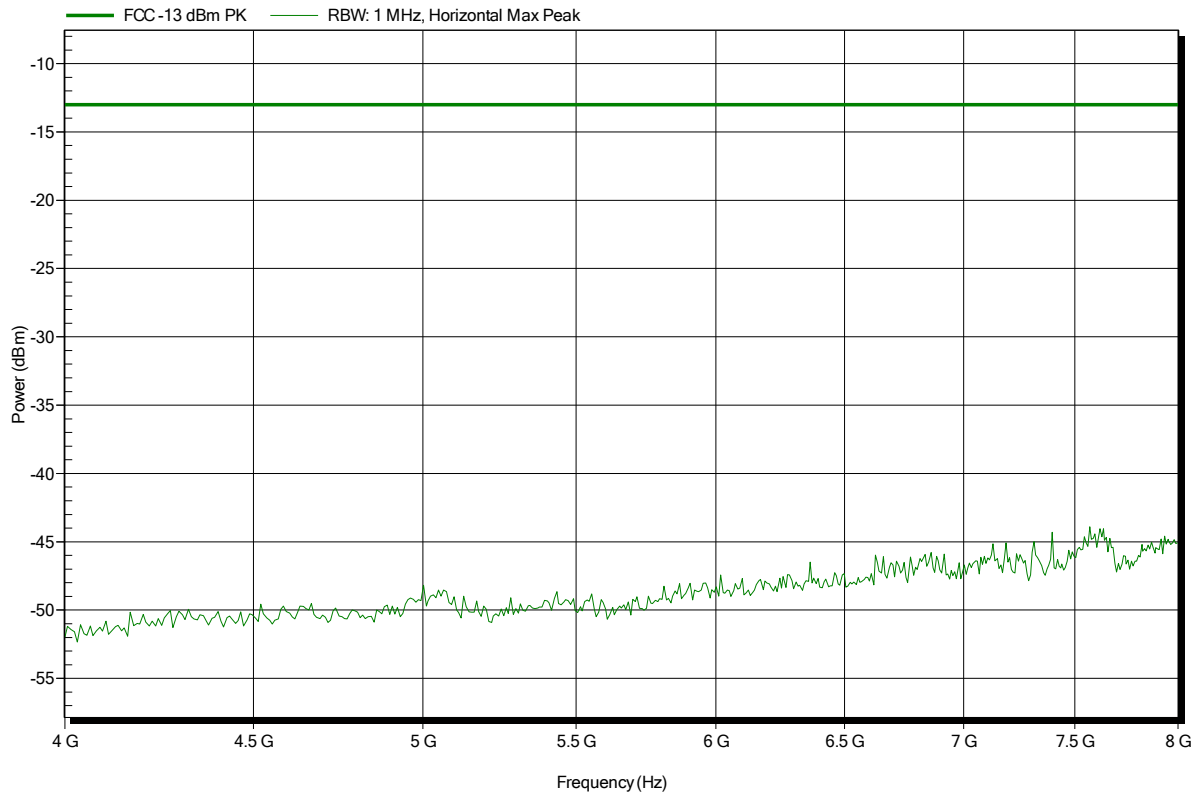


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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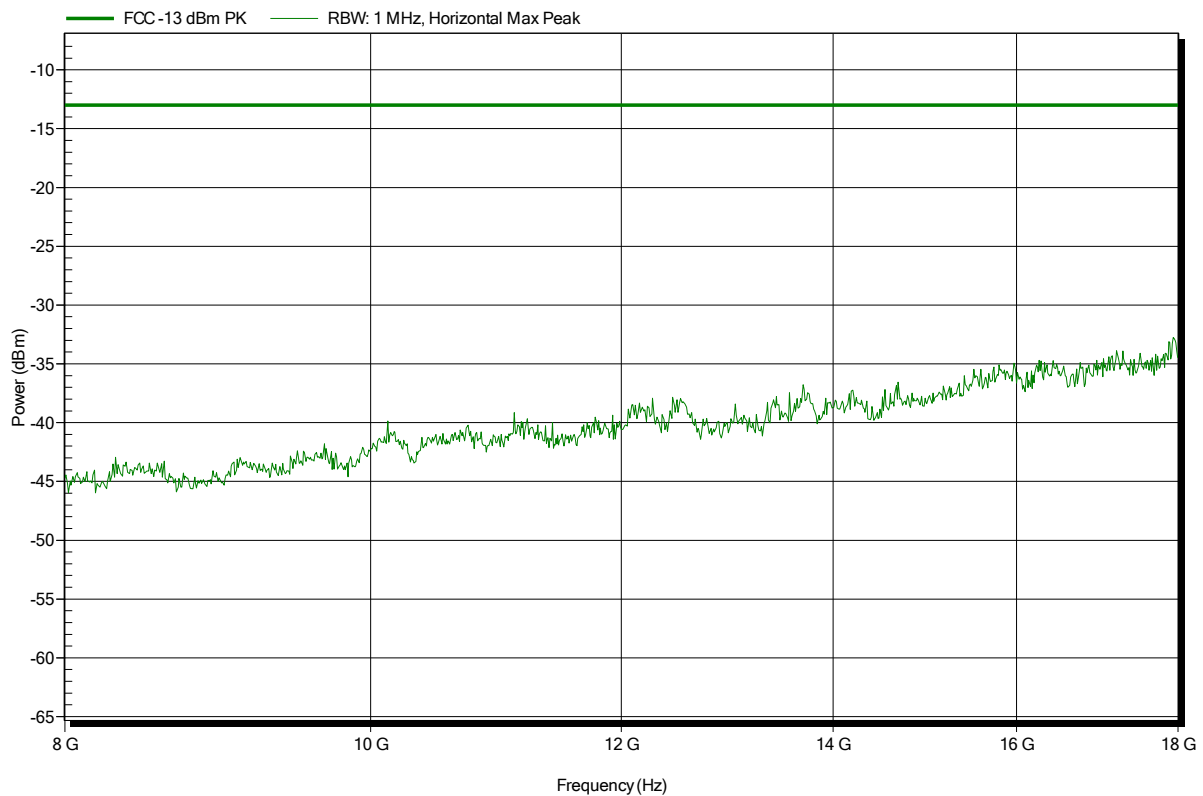


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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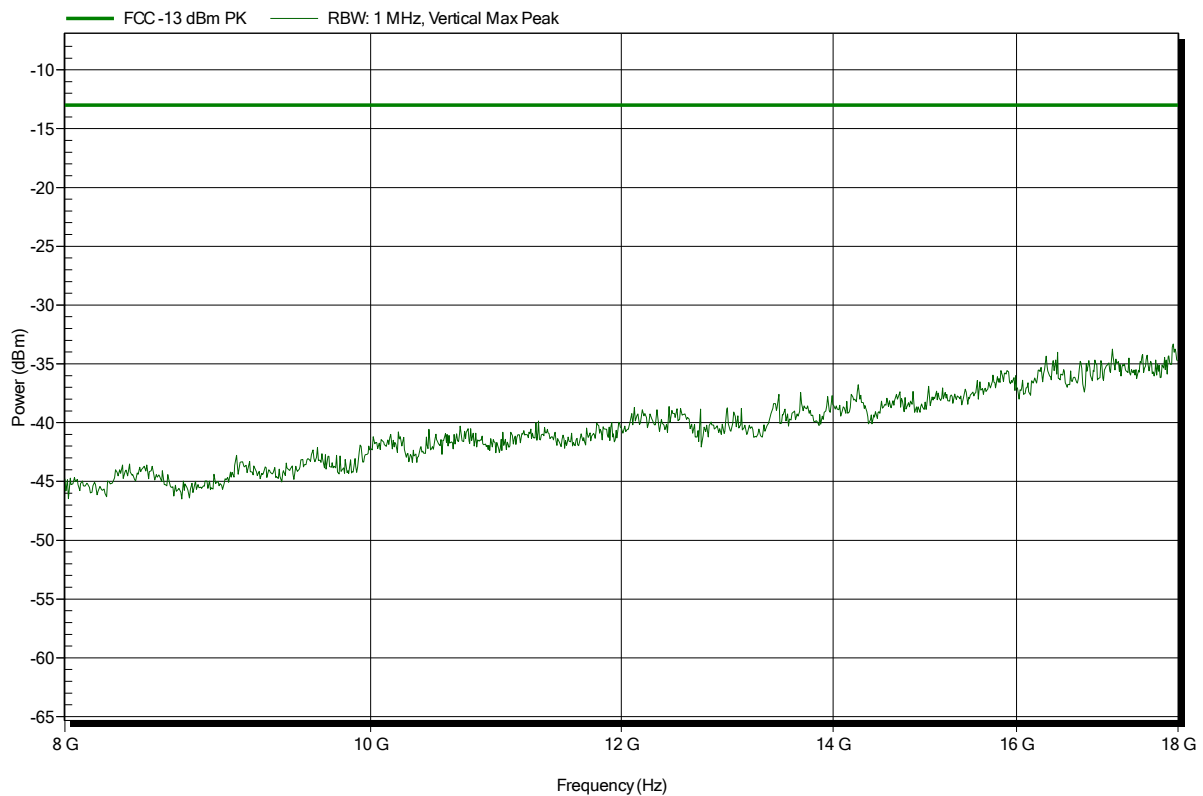


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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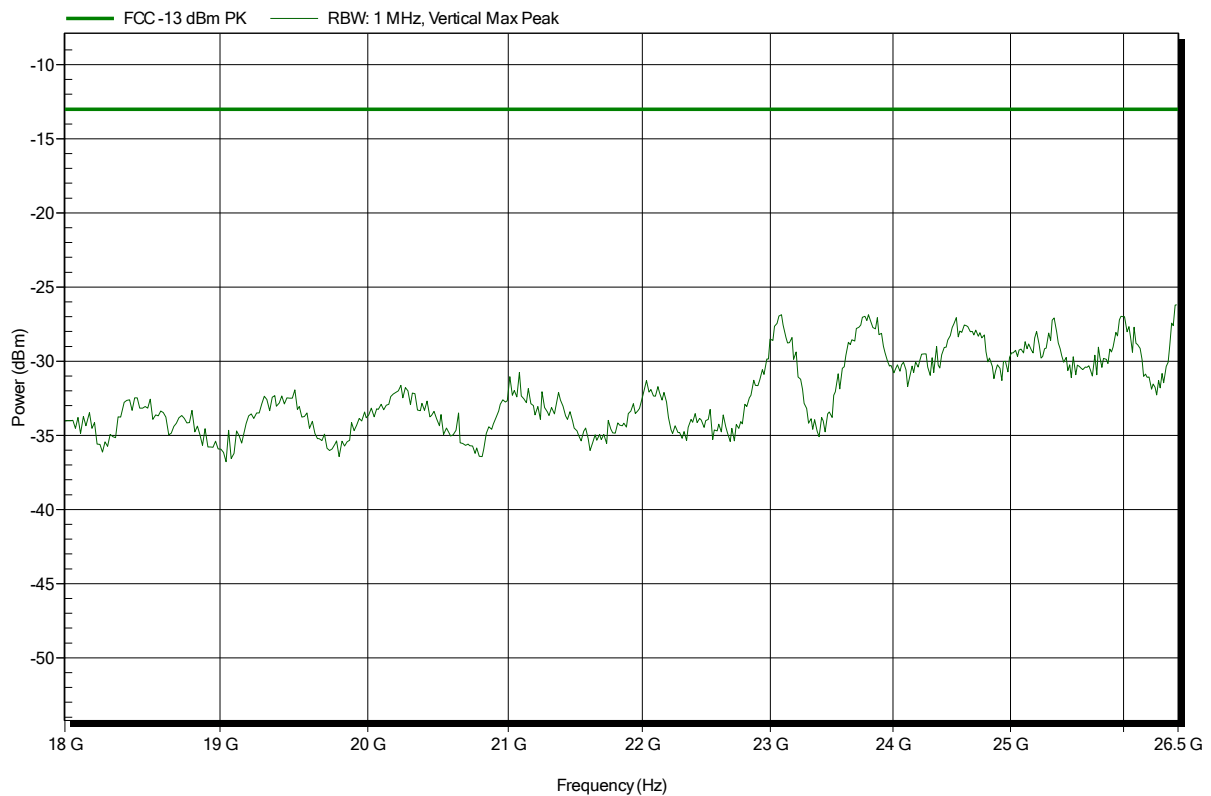


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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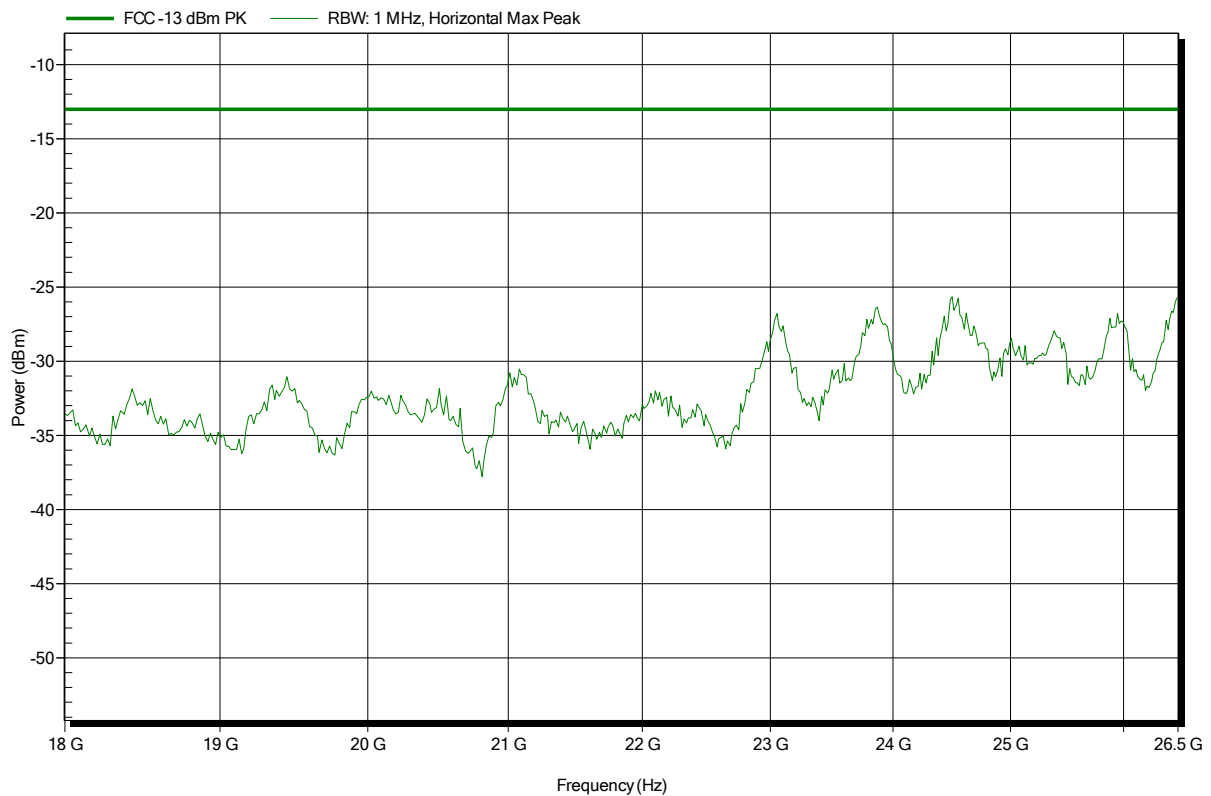


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 661, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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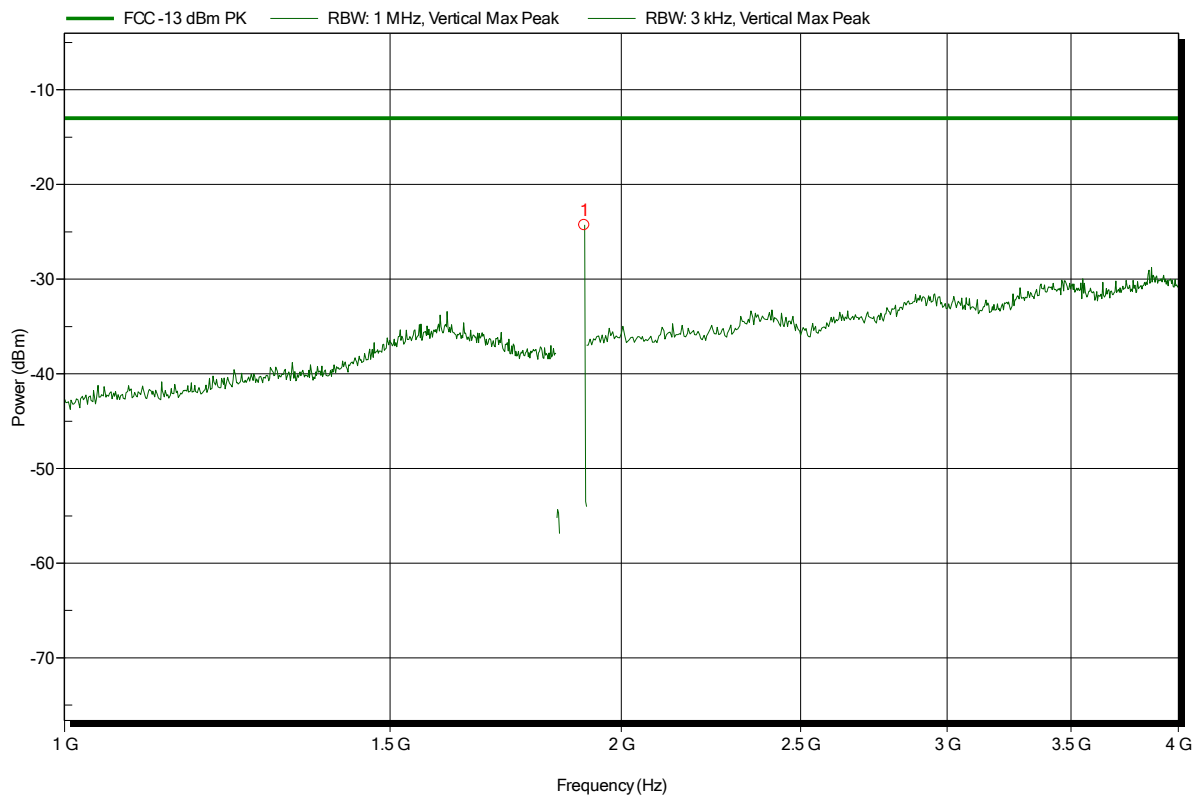


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
 Test Date: 2014-11-19
 Note: EUT vertical

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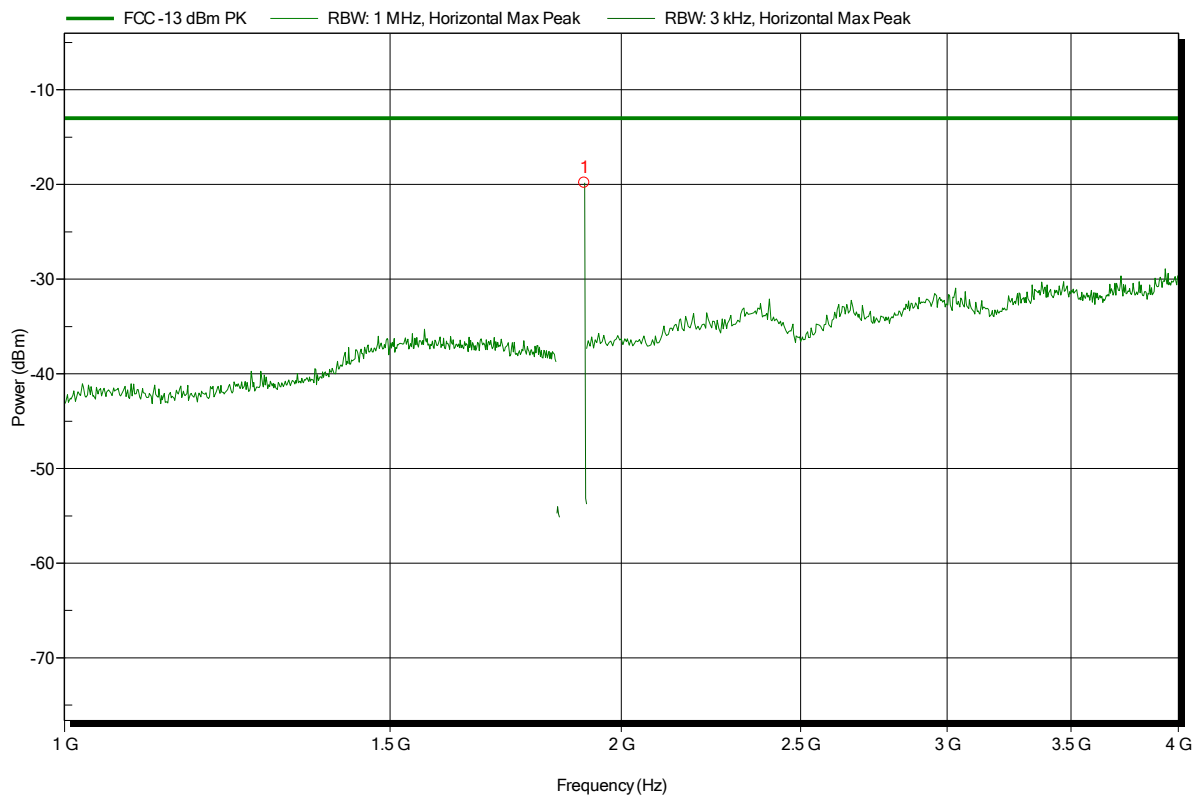
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.911 GHz	-24.3 dBm	-13 dBm	-11.28 dB	Pass

Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
 Test Date: 2014-11-19
 Note: EUT vertical

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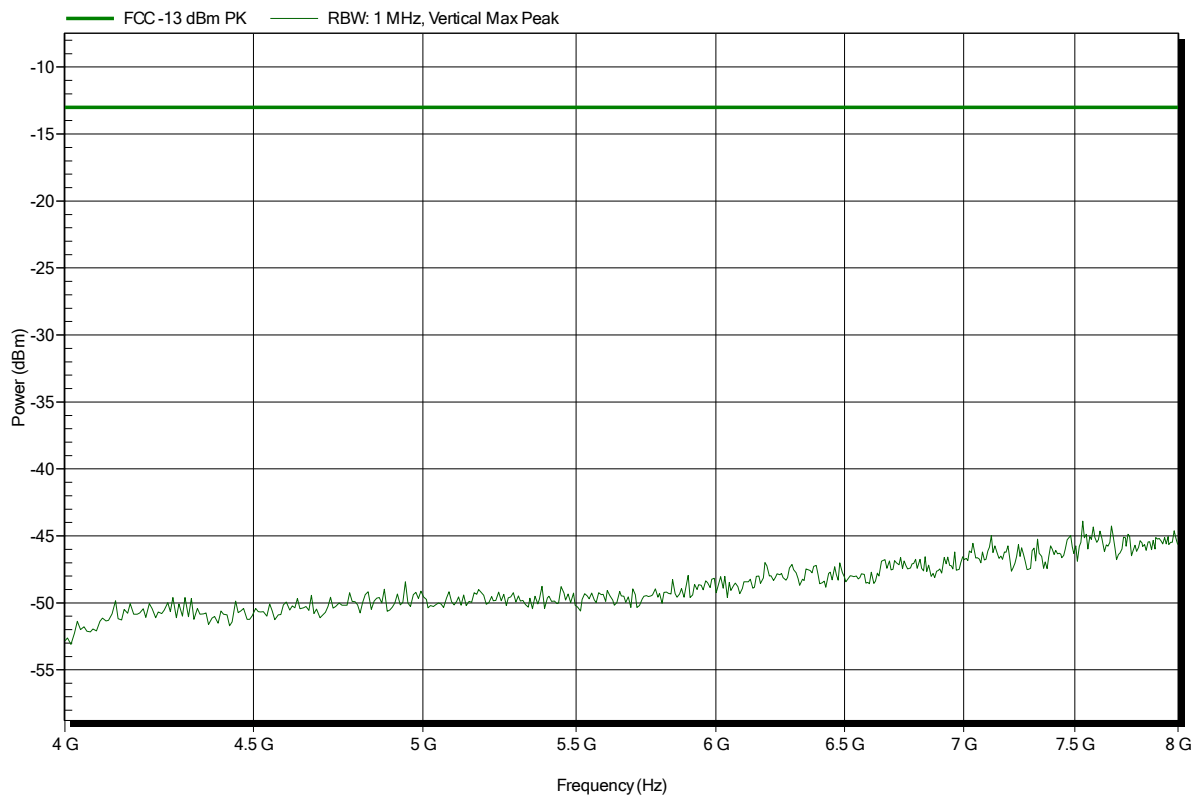
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
1.91 GHz	-19.8 dBm	-13 dBm	-6.83 dB	Pass

Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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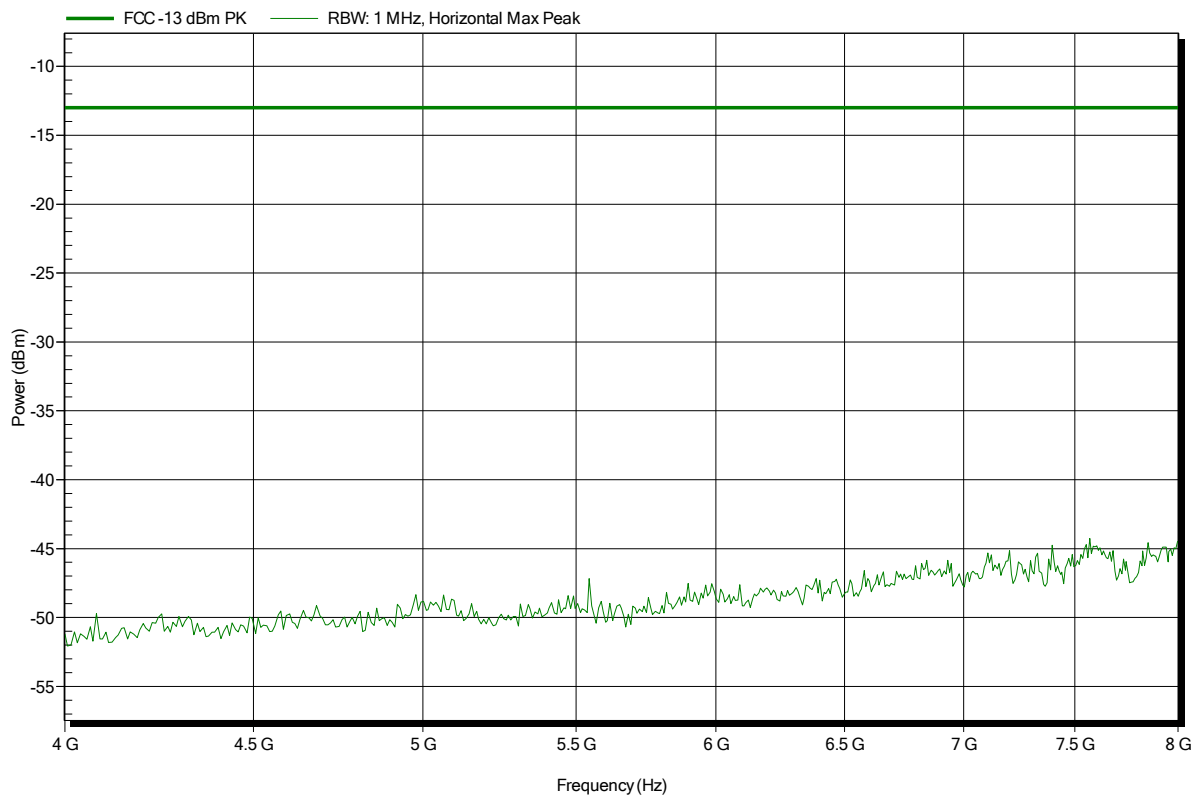


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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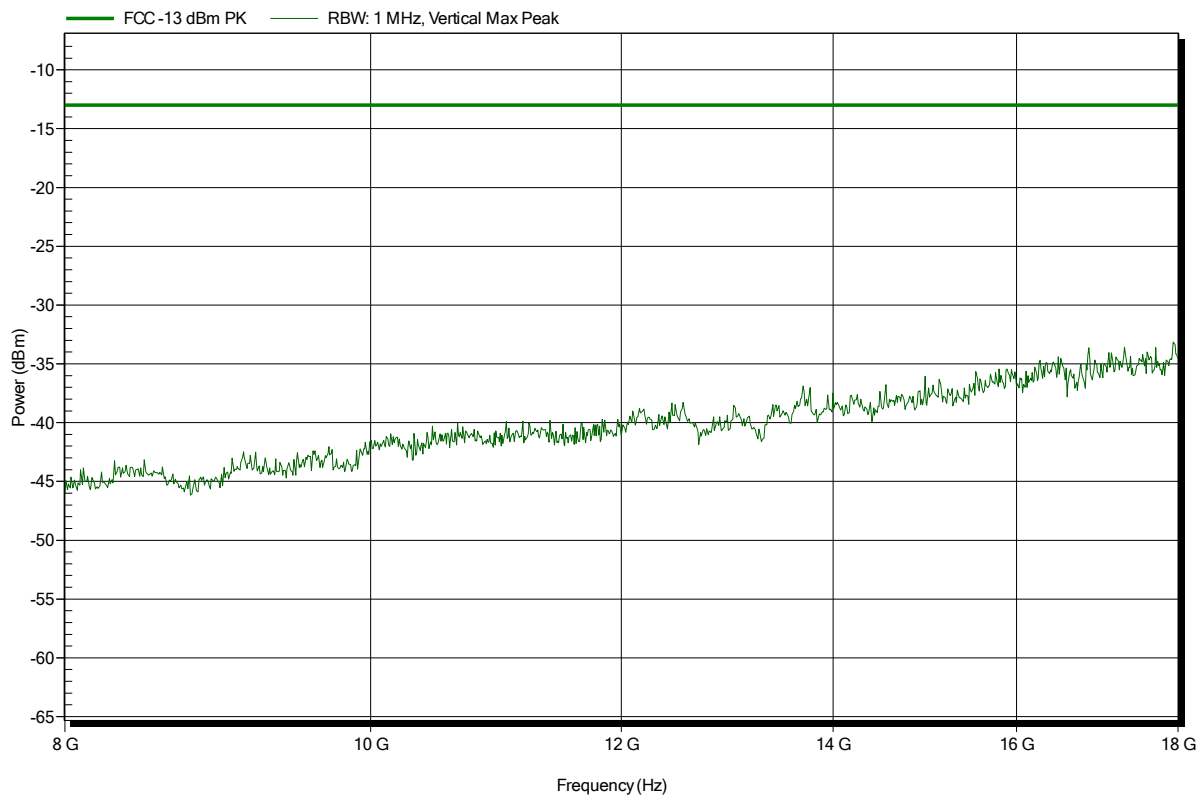


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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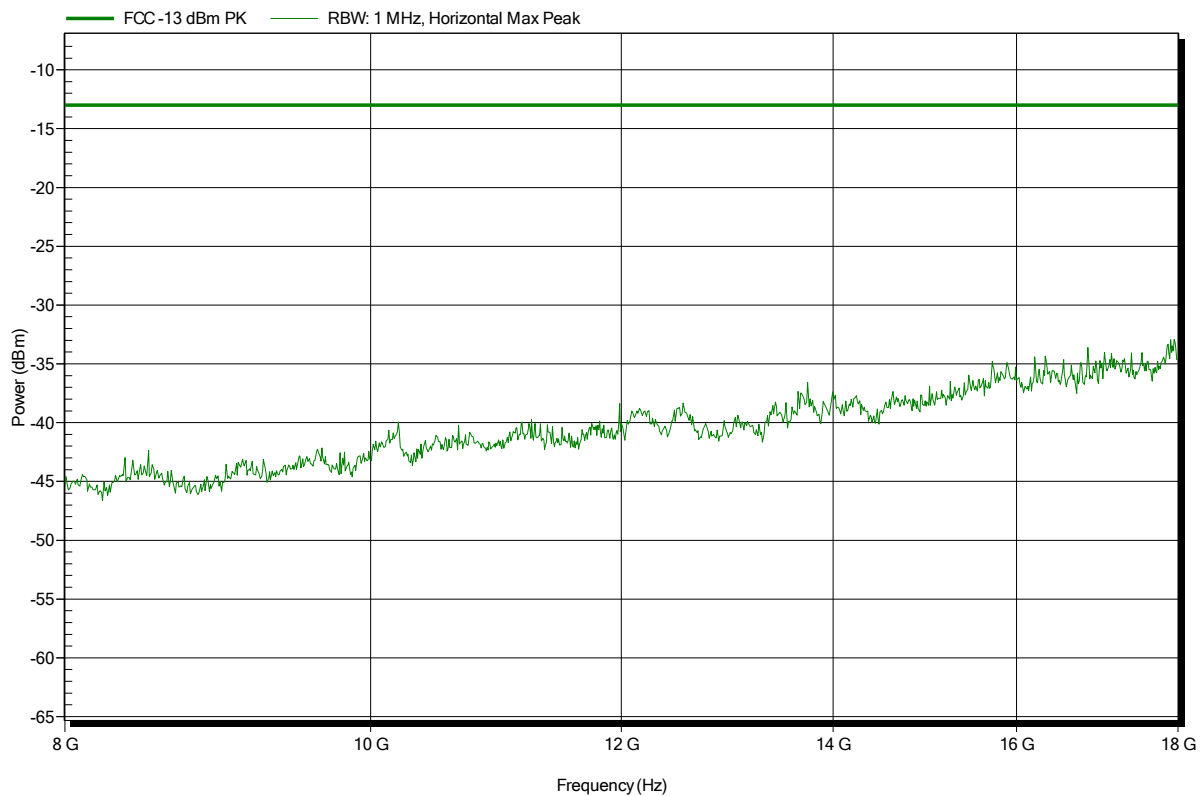


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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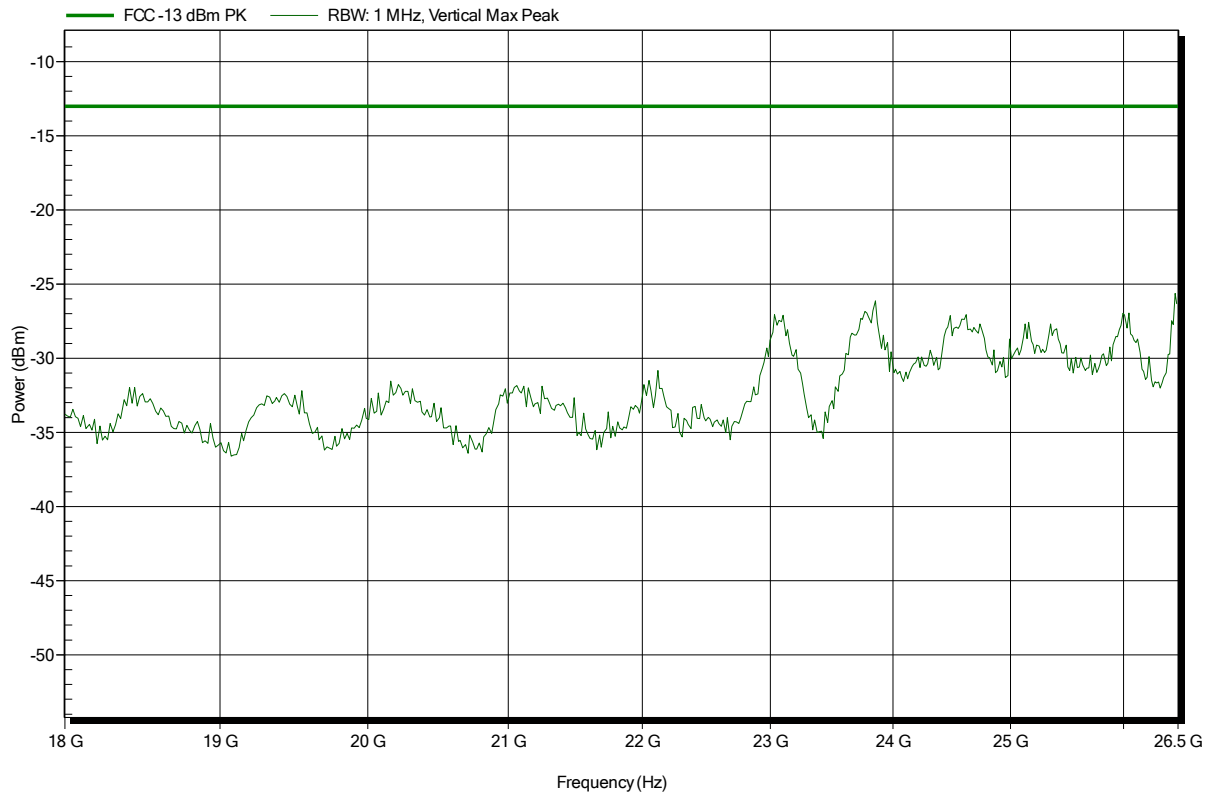


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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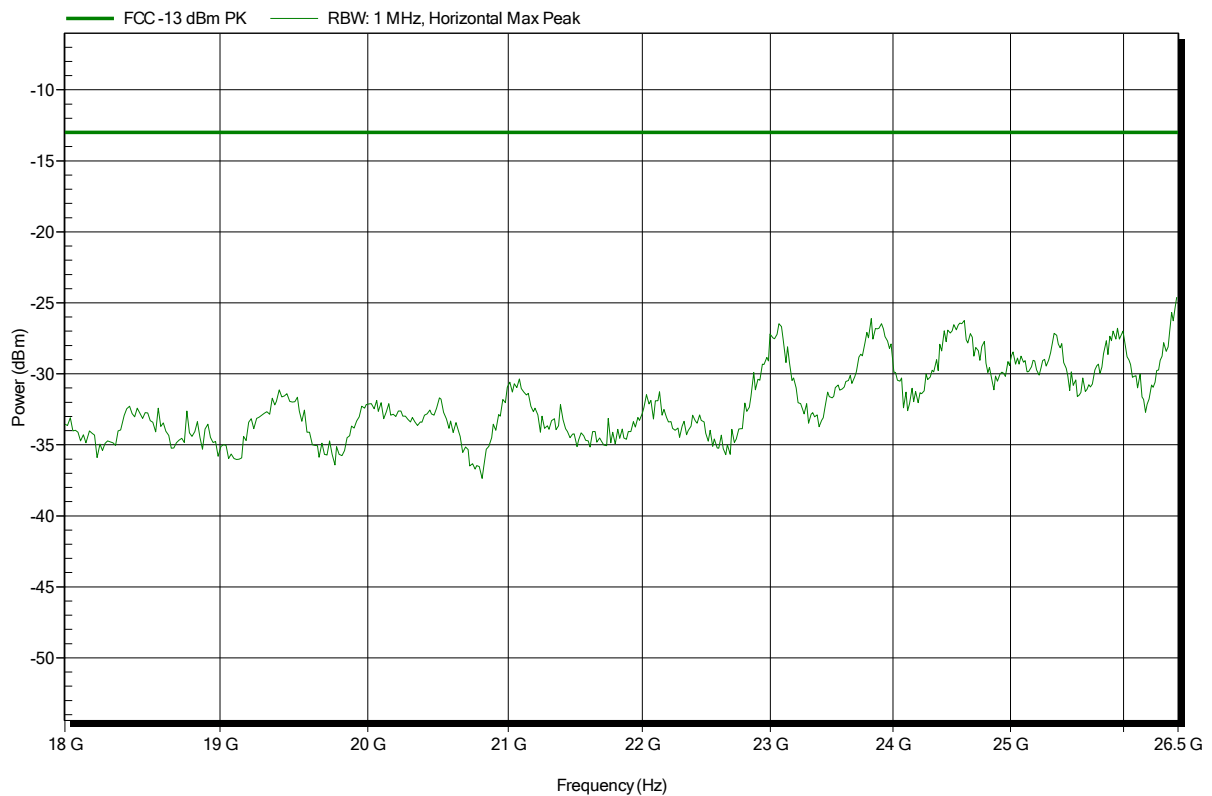


Spurious emissions according to FCC part 24 Subpart E, IC RSS-133

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 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; EDGE 1900, Ch. 810, UL 1x Slot, Gamma 5
Test Date:	2014-11-19
Note:	EUT vertical

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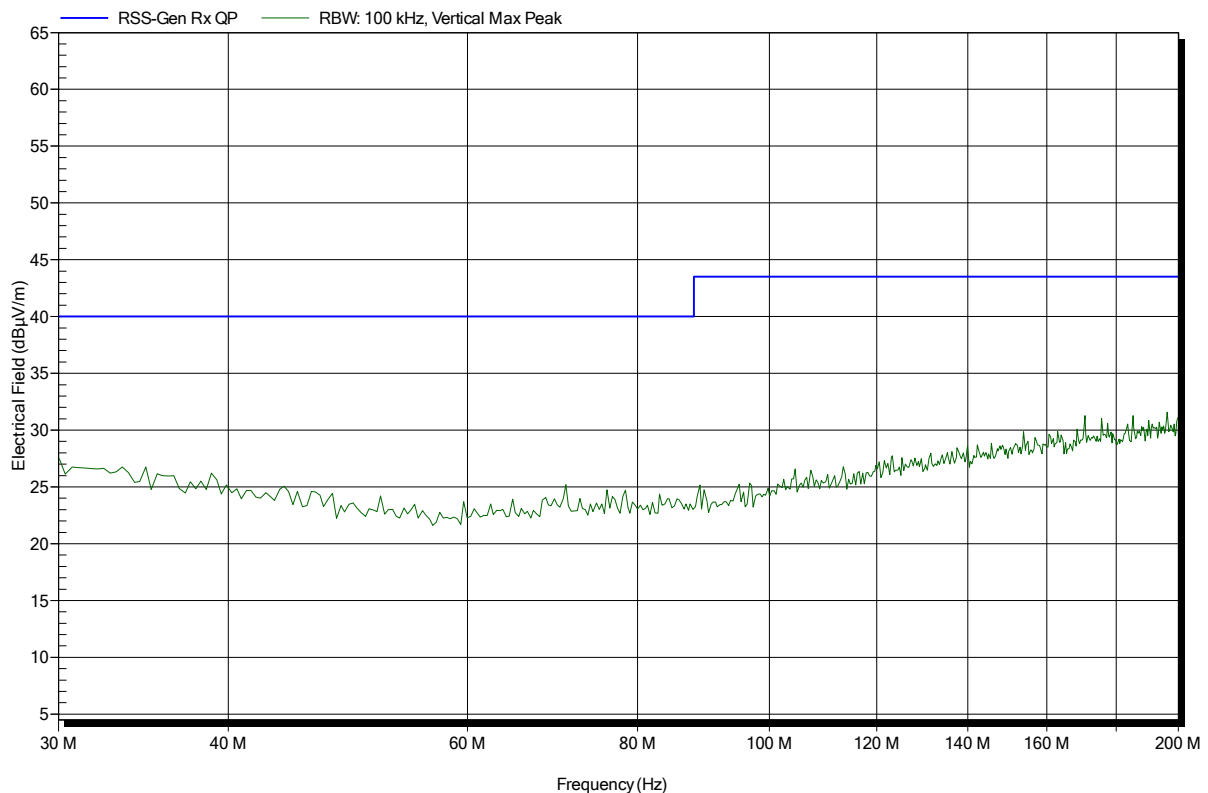
ANNEX B Receiver radiated spurious emissions

Spurious emissions according to IC 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:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	RX; GSM 850, CH. 188, RX-Idle Mode
Test Date:	2014-11-19
Note:	EUT vertical

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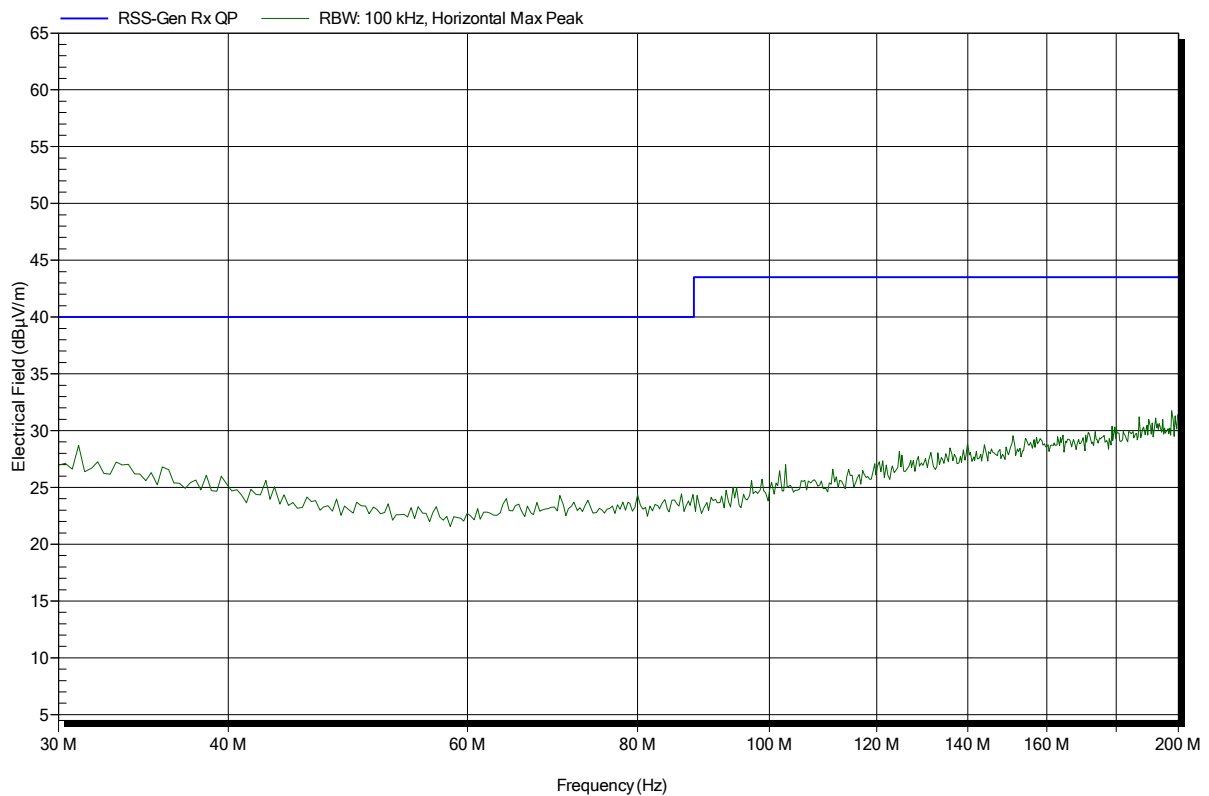


Spurious emissions according to IC RSS-Gen

Project number: G0M-1406-3917

Applicant:	Leica Geosystems AG
EUT Name:	Field Controller Win EC7
Model:	CS20
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	RX; GSM 850, CH. 188, RX-Idle Mode
Test Date:	2014-11-19
Note:	EUT vertical

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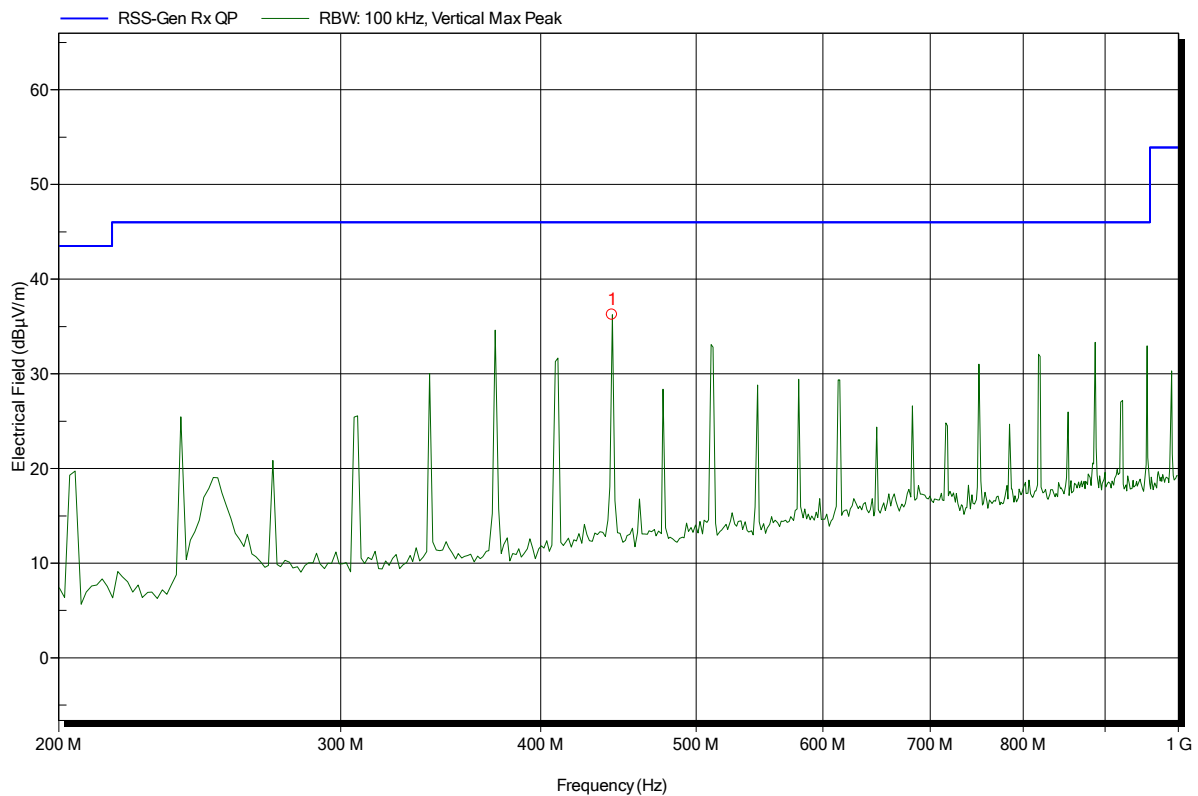


Spurious emissions according to IC RSS-Gen

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: RX; GSM 850, CH. 188, RX-Idle Mode
 Test Date: 2014-11-19
 Note: EUT vertical

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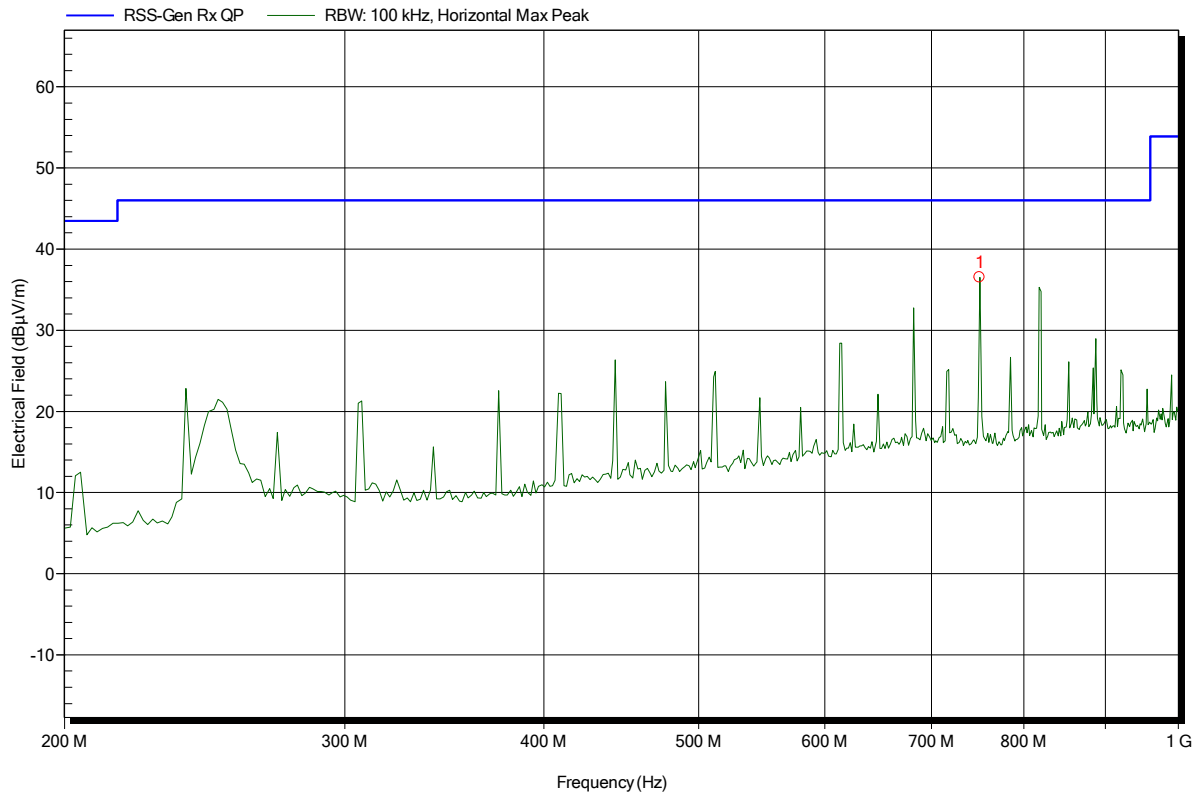
Frequency	Peak	Peak Limit	Peak Difference	Status
443.2 MHz	36.25 dBµV/m	46 dBµV/m	-9.75 dB	Pass

Spurious emissions according to IC 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: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: RX; GSM 850, CH. 188, RX-Idle Mode
 Test Date: 2014-11-19
 Note: EUT vertical

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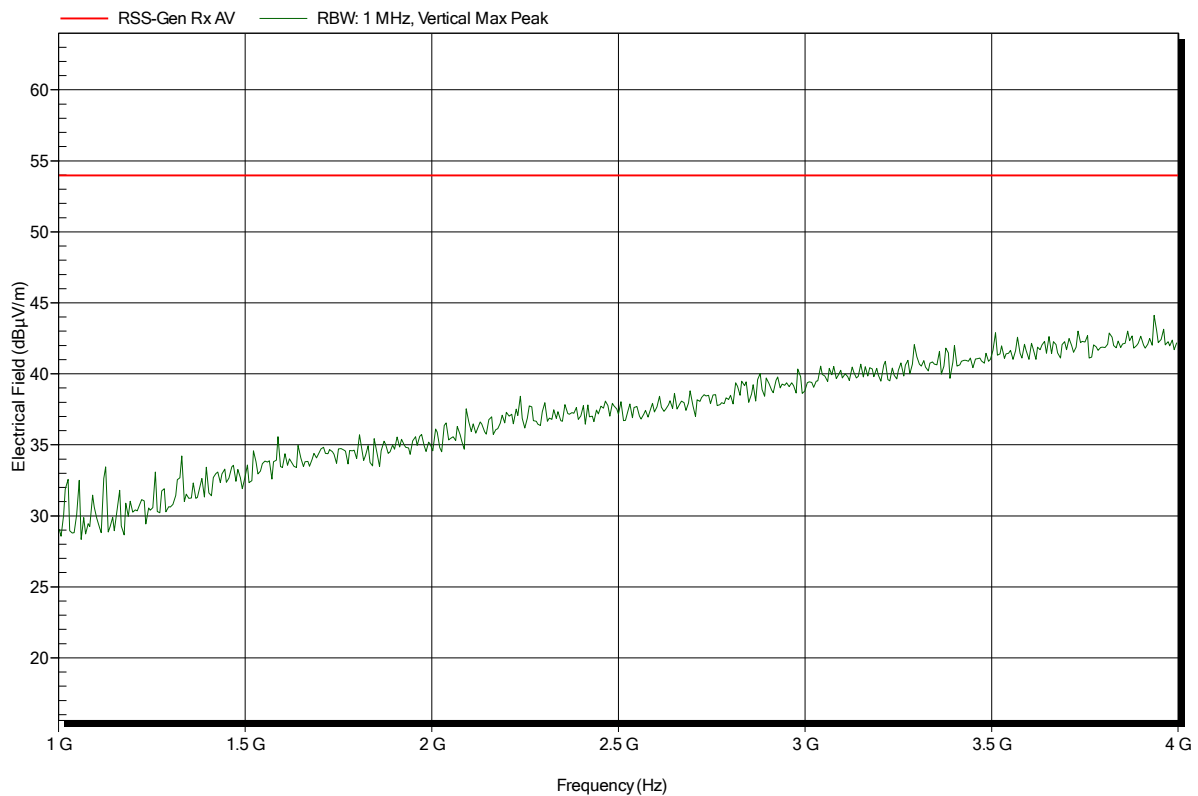
Frequency	Peak	Peak Limit	Peak Difference	Status
750.4 MHz	36.53 dBµV/m	46 dBµV/m	-9.47 dB	Pass

Spurious emissions according to IC 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:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; GSM 850, CH. 188, RX-Idle Mode
Test Date:	2014-11-19
Note:	EUT vertical

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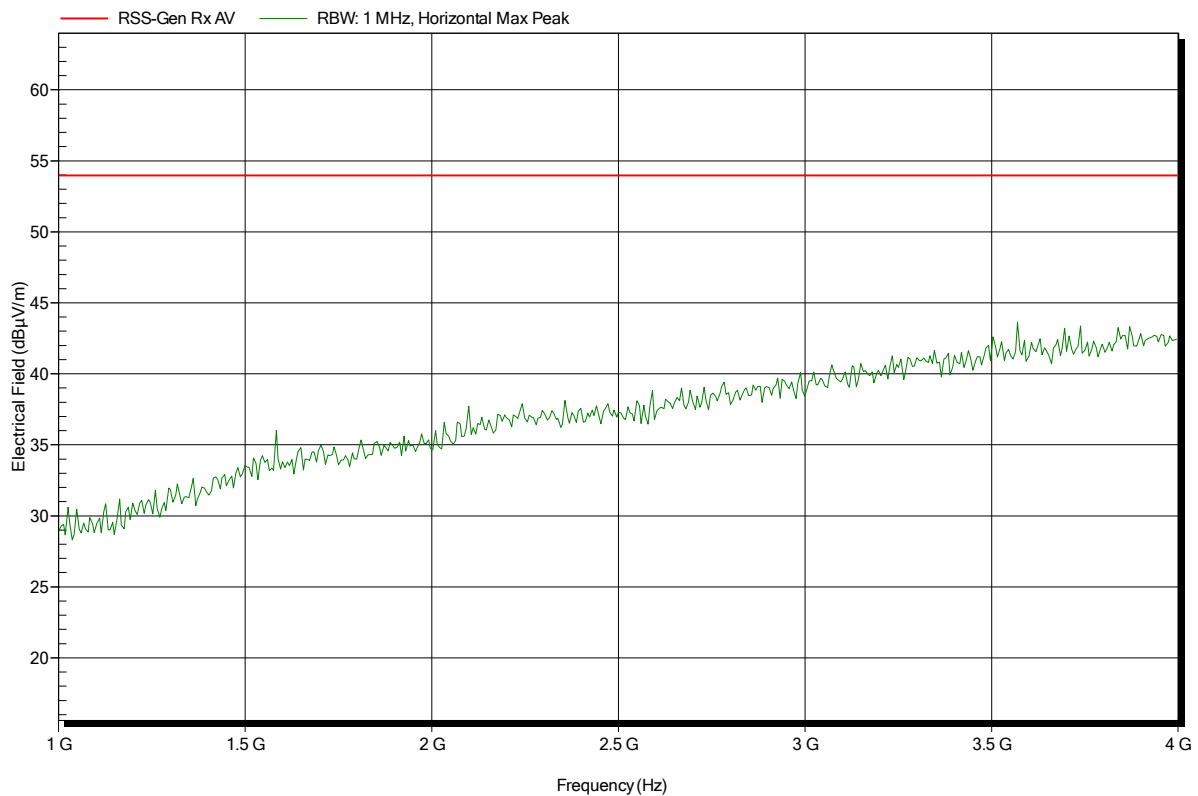


Spurious emissions according to IC RSS-Gen

Project number: G0M-1406-3917

Applicant:	Leica Geosystems AG
EUT Name:	Field Controller Win EC7
Model:	CS20
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; GSM 850, CH. 188, RX-Idle Mode
Test Date:	2014-11-19
Note:	EUT vertical

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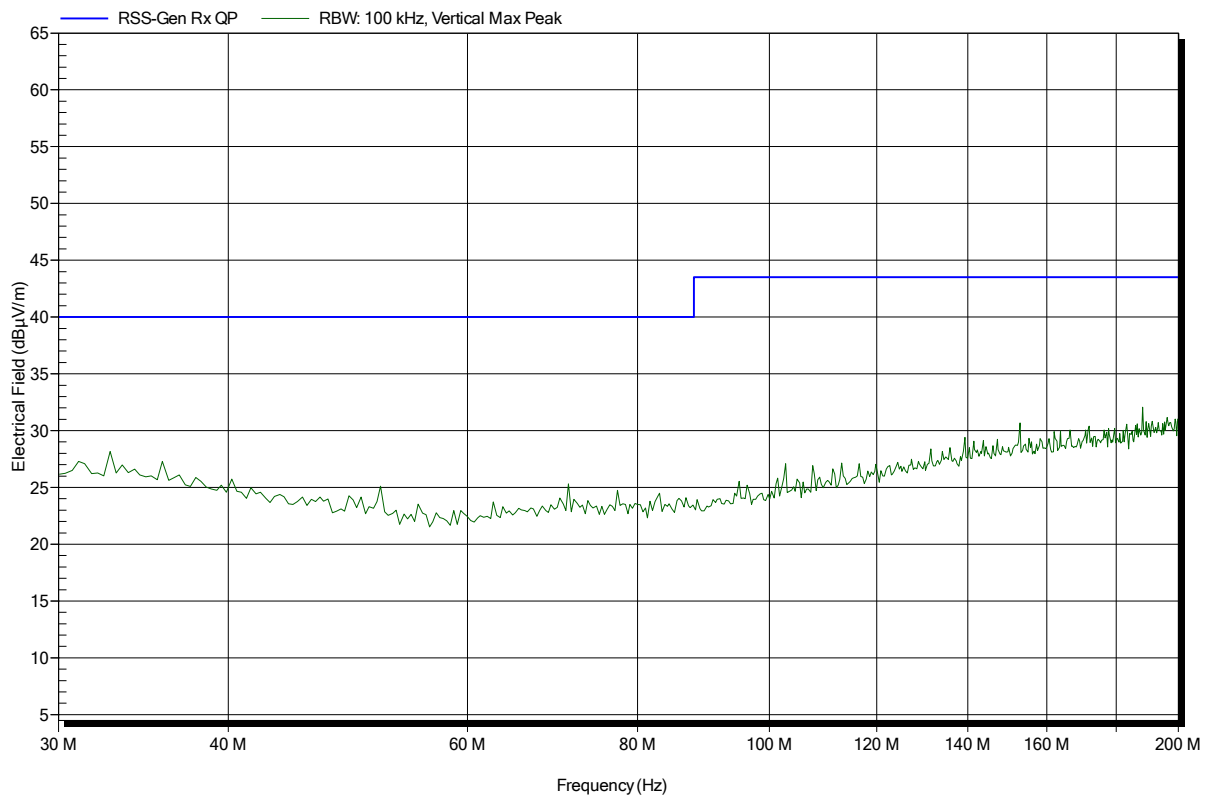


Spurious emissions according to IC RSS-Gen

Project number: G0M-1406-3917

Applicant:	Leica Geosystems AG
EUT Name:	Field Controller Win EC7
Model:	CS20
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	RX; GSM 1900, CH. 661, RX-Idle Mode
Test Date:	2014-11-19
Note:	EUT vertical

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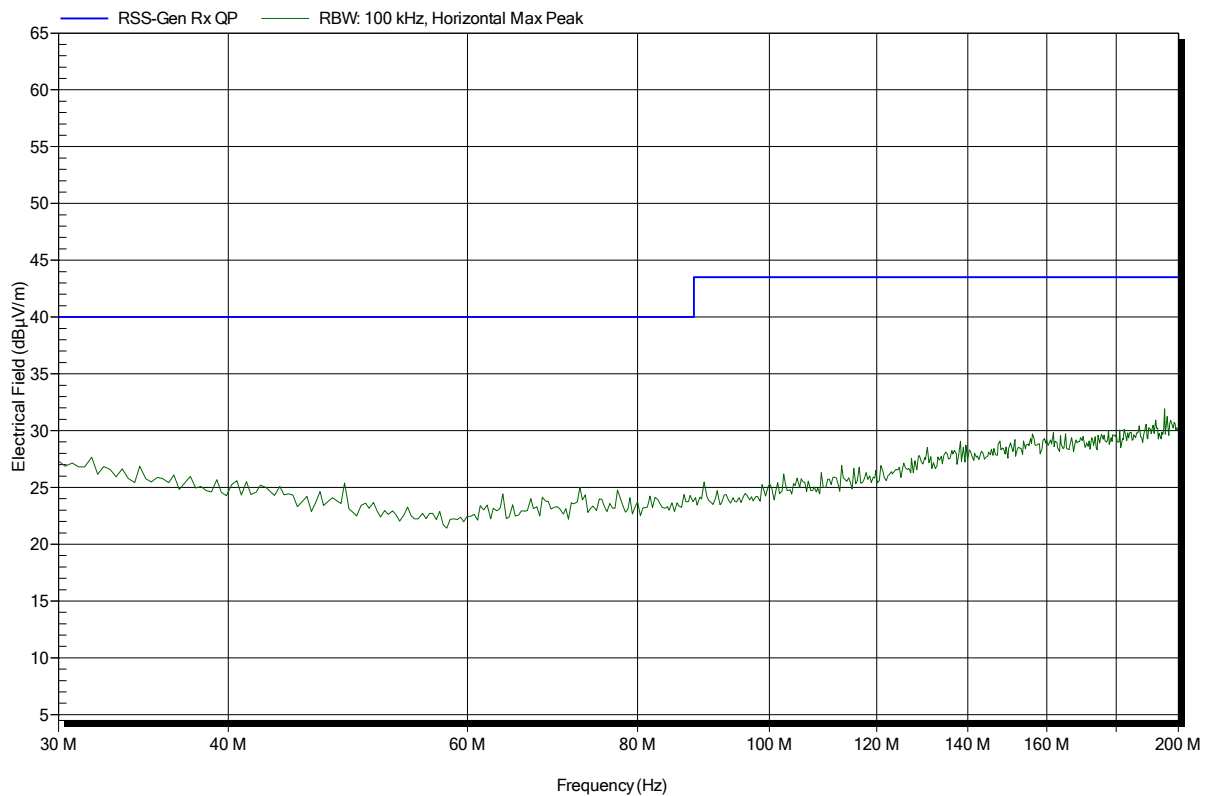


Spurious emissions according to IC RSS-Gen

Project number: G0M-1406-3917

Applicant:	Leica Geosystems AG
EUT Name:	Field Controller Win EC7
Model:	CS20
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	RX; GSM 1900, CH. 661, RX-Idle Mode
Test Date:	2014-11-19
Note:	EUT vertical

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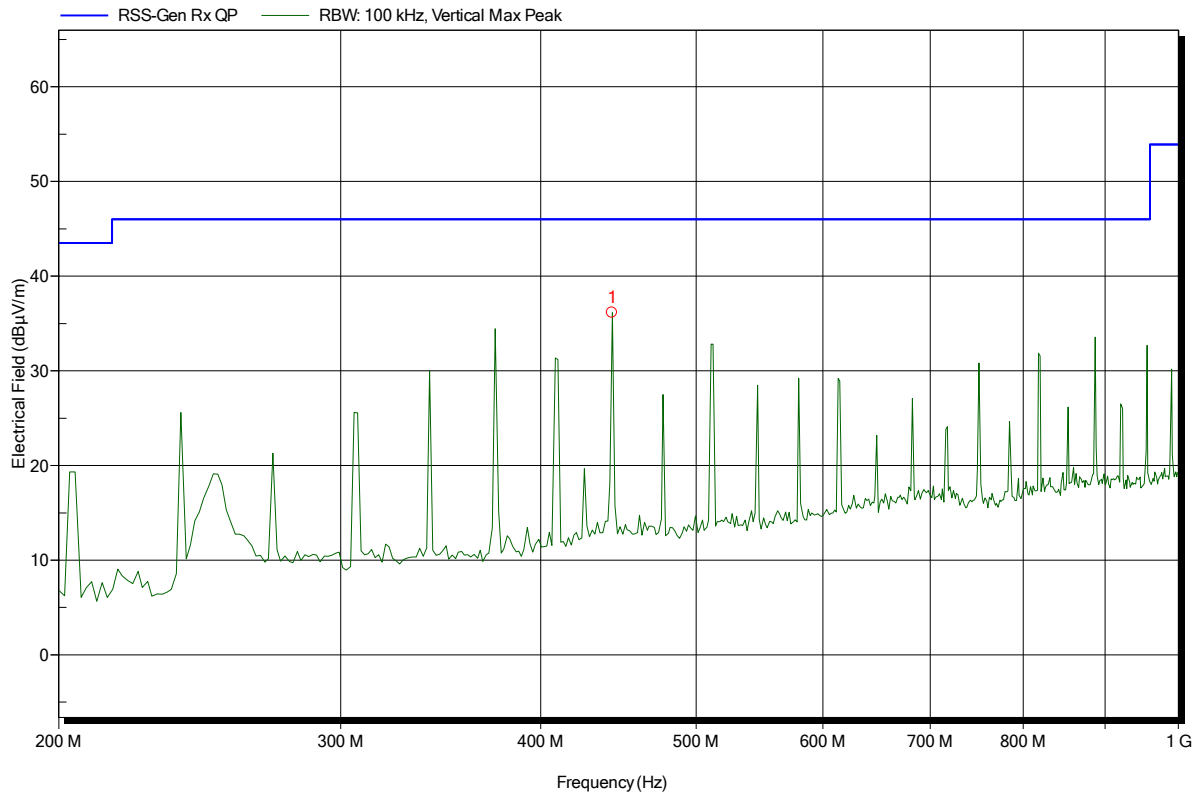


Spurious emissions according to IC RSS-Gen

Project number: G0M-1406-3917

Applicant: Leica Geosystems AG
 EUT Name: Field Controller Win EC7
 Model: CS20
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: RX; GSM 1900, CH. 661, RX-Idle Mode
 Test Date: 2014-11-19
 Note: EUT vertical

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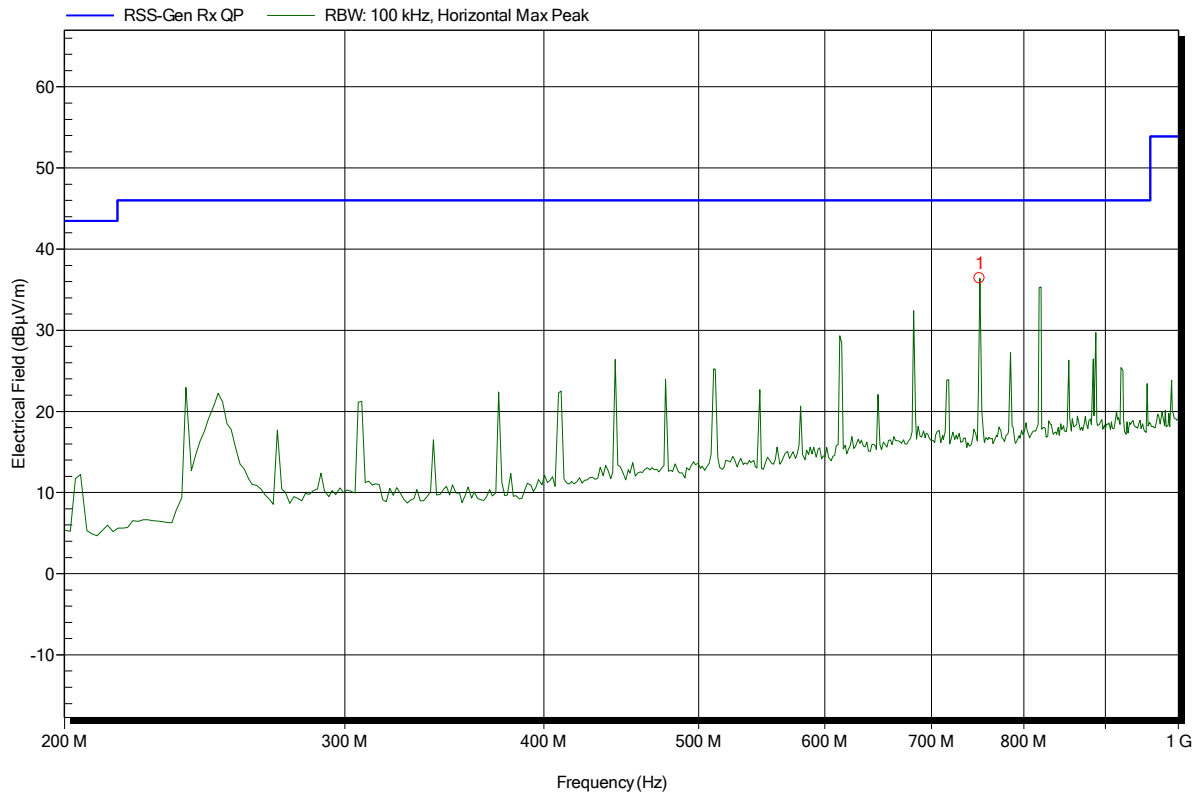
Frequency	Peak	Peak Limit	Peak Difference	Status
443.2 MHz	36.13 dBµV/m	46 dBµV/m	-9.87 dB	Pass

Spurious emissions according to IC 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: Mr. Pudell
 Test Conditions: Tnom: 24°C, Vnom: 11.1 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: RX; GSM 1900, CH. 661, RX-Idle Mode
 Test Date: 2014-11-19
 Note: EUT vertical

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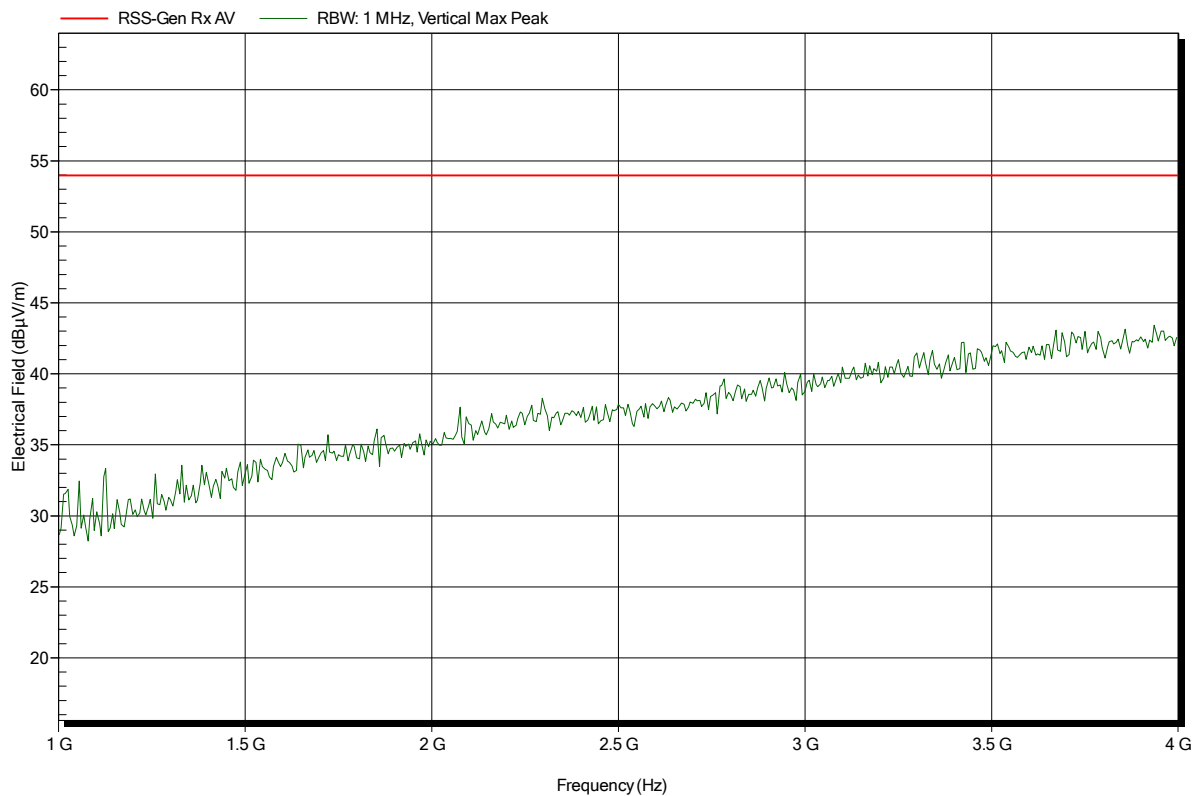
Frequency	Peak	Peak Limit	Peak Difference	Status
750.4 MHz	36.42 dBµV/m	46 dBµV/m	-9.58 dB	Pass

Spurious emissions according to IC 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:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; GSM 1900, CH. 661, RX-Idle Mode
Test Date:	2014-11-19
Note:	EUT vertical

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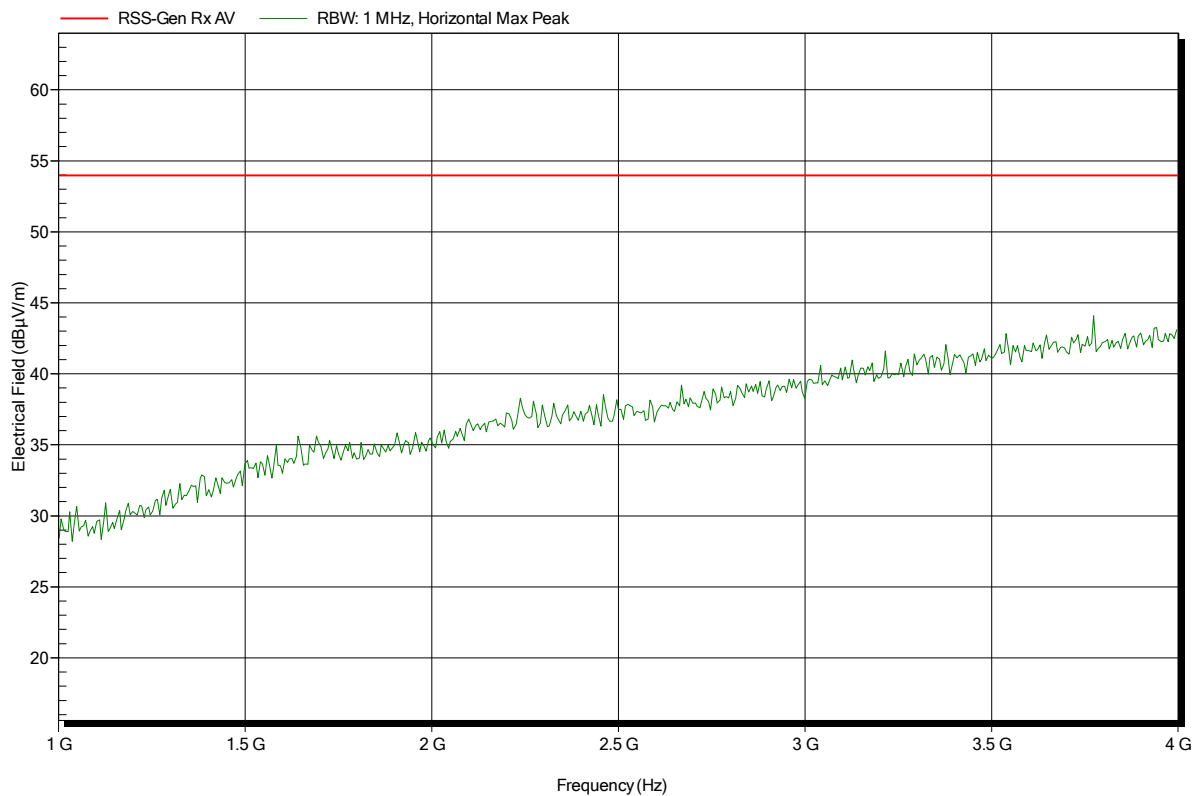


Spurious emissions according to IC RSS-Gen

Project number: G0M-1406-3917

Applicant:	Leica Geosystems AG
EUT Name:	Field Controller Win EC7
Model:	CS20
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; GSM 1900, CH. 661, RX-Idle Mode
Test Date:	2014-11-19
Note:	EUT vertical

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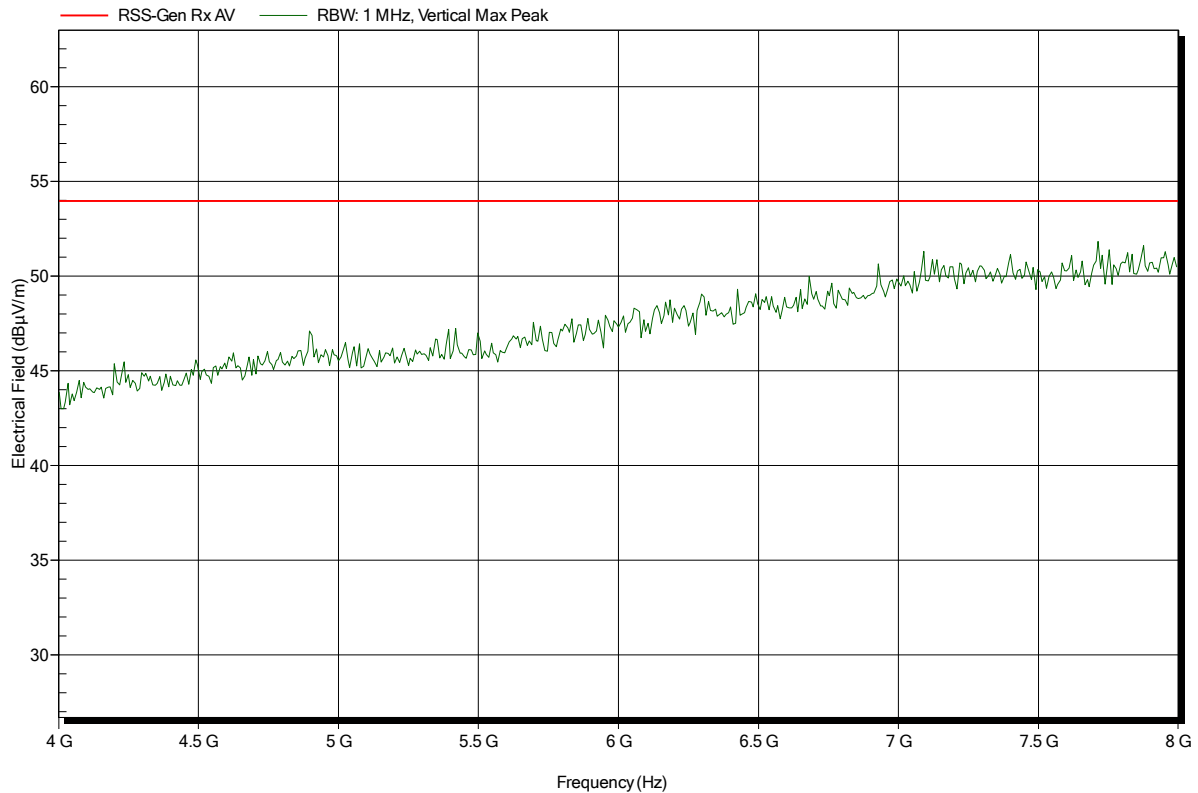


Spurious emissions according to IC RSS-Gen

Project number: G0M-1406-3917

Applicant:	Leica Geosystems AG
EUT Name:	Field Controller Win EC7
Model:	CS20
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; GSM 1900, CH. 661, RX-Idle Mode
Test Date:	2014-11-19
Note:	EUT vertical

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Spurious emissions according to IC 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:	Mr. Pudell
Test Conditions:	Tnom: 24°C, Vnom: 11.1 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; GSM 1900, CH. 661, RX-Idle Mode
Test Date:	2014-11-19
Note:	EUT vertical

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