



<b>FCC TEST REPORT</b> <b>FCC 47 CFR Part 15C</b> <b>Industry Canada RSS-247</b> <b>Digital transmission systems operating within the 2400 – 2483.5 MHz band</b>	
<b>Report Reference No.</b> .....	G0M-1503-4620-TFC247WF-V01
<b>Testing Laboratory</b> .....	Eurofins Product Service GmbH
<b>Address</b> .....	Storkower Str. 38c 15526 Reichenwalde Germany
<b>Accreditation</b> .....	  A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A
<b>Applicant's name</b> .....	BARTEC PIXAVI AS
<b>Address</b> .....	Domkirkeplassen 2 4006 Stavanger NORWAY
<b>Test specification:</b>	
<b>Standard</b> .....	47 CFR Part 15C RSS-247, Issue 1, 2015-05 RSS-Gen, Issue 4, 2014-11 ANSI C63.10:2013 ANSI C63.4:2014
<b>Test scope</b> .....	complete Radio compliance test
<b>Equipment under test (EUT):</b>	
Product description	Wireless camera (Standard version)
Model No.	OrbitX ST
Additional Model(s)	OrbitX EX
Brand Name(s)	None
Hardware version	Rev 2
Firmware / Software version	478
	FCC-ID: YML-ORBITX      IC: 9249A-ORBITX
<b>Test result</b>	<b>Passed</b>

**Possible test case verdicts:**

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

**Testing:**

Test Lab Temperature.....: 20 – 23 °C

Test Lab Humidity .....: 32 – 38 %

Date of receipt of test item .....: 2015-04-20

Date (s) of performance of tests .....: 2015-04-21 – 2015-04-24

Compiled by .....: Wilfried Treffke

Tested by (+ signature) .....: Wilfried Treffke

(Responsible for Test)

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

Date of issue .....: 2015-08-04

Total number of pages .....: 155



**General remarks:**

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

**The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.**

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

**Additional comments:**

The OrbitX ST model includes circuitry to support a Micro-HDMI connection and mechanics to give access to the HDMI port. The OrbitX EX model uses the same PCB, but does not have the HDMI components populated. Full Test was performed on the fully version OrbitX ST. The list of equality of structure is attached as annex.

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## Version History

Version	Issue Date	Remarks	Revised by
01	2015-08-04	Initial Release	

## REPORT INDEX

<b>1</b>	<b>EQUIPMENT (TEST ITEM) DESCRIPTION</b>	<b>5</b>
1.1	Photos – Equipment External	6
1.2	Photos – Equipment internal	8
1.3	Photos – Test setup	11
1.4	Supporting Equipment Used During Testing	12
1.5	Test Modes	13
1.6	Test Equipment Used During Testing	15
1.7	Sample emission level calculation	17
<b>2</b>	<b>RESULT SUMMARY</b>	<b>18</b>
<b>3</b>	<b>TEST CONDITIONS AND RESULTS</b>	<b>19</b>
3.1	Test Conditions and Results – Occupied Bandwidth	19
3.2	Test Conditions and Results – 6 dB Bandwidth	32
3.3	Test Conditions and Results – Maximum peak conducted power	46
3.4	Test Conditions and Results – Power spectral density	48
3.5	Test Conditions and Results – AC power line conducted emissions	50
3.6	Test Conditions and Results – Band edge compliance	53
3.7	Test Conditions and Results – Conducted spurious emissions	62
3.8	Test Conditions and Results – Transmitter radiated emissions	76
3.9	Test Conditions and Results – Receiver radiated emissions	80
ANNEX A	Transmitter radiated spurious emissions	82
ANNEX B	Receiver radiated spurious emissions	145

## 1 Equipment (Test item) Description

Description	Wireless camera (Standard version)			
Model	OrbitX ST			
Additional Model(s)	OrbitX EX			
Brand Name(s)	None			
Serial number	1			
Hardware version	Rev 2			
Software / Firmware version	478			
FCC-ID	YML-ORBITX			
IC	9249A-ORBITX			
Equipment type	End product			
Radio type	Transceiver			
Radio technology	IEEE 802.11 b/g/n			
Operating frequency range	2412 - 2462 MHz			
Assigned frequency band	2400 - 2483.5 MHz			
Main test frequencies	F <sub>LOW20</sub>	2412 MHz	F <sub>LOW40</sub>	2422 MHz
	F <sub>MID20</sub>	2437 MHz	F <sub>MID40</sub>	2437 MHz
	F <sub>HIGH20</sub>	2462 MHz	F <sub>HIGH40</sub>	2452 MHz
Spreading	CCK, DSSS, OFDM			
Modulations	BPSK, QPSK, 16-QAM, 64-QAM			
Number of channels	11			
Channel spacing	5 MHz			
Number of antennas	1			
Antenna	Type	integrated		
	Model	Printed flex PCB		
	Manufacturer	Custom		
	Gain	+0.0 dBi (by measurement)		
Manufacturer	BARTEC PIXAVI AS Domkirkeklassen 2 4006 Stavanger NORWAY			
Power supply	V <sub>NOM</sub>	3.7 VDC lithium		
	V <sub>MIN</sub>	N/R		
	V <sub>MAX</sub>	N/R		
AC/DC-Adaptor	Model	N/A		
	Vendor	N/A		
	Input	N/A		
	Output	N/A		

## 1.1 Photos – Equipment External



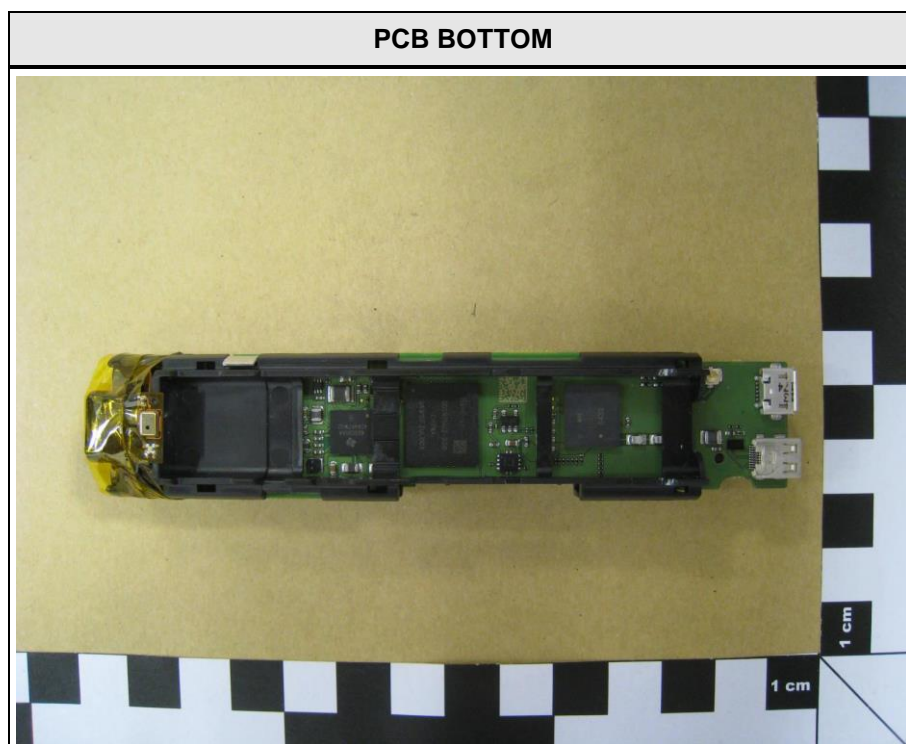
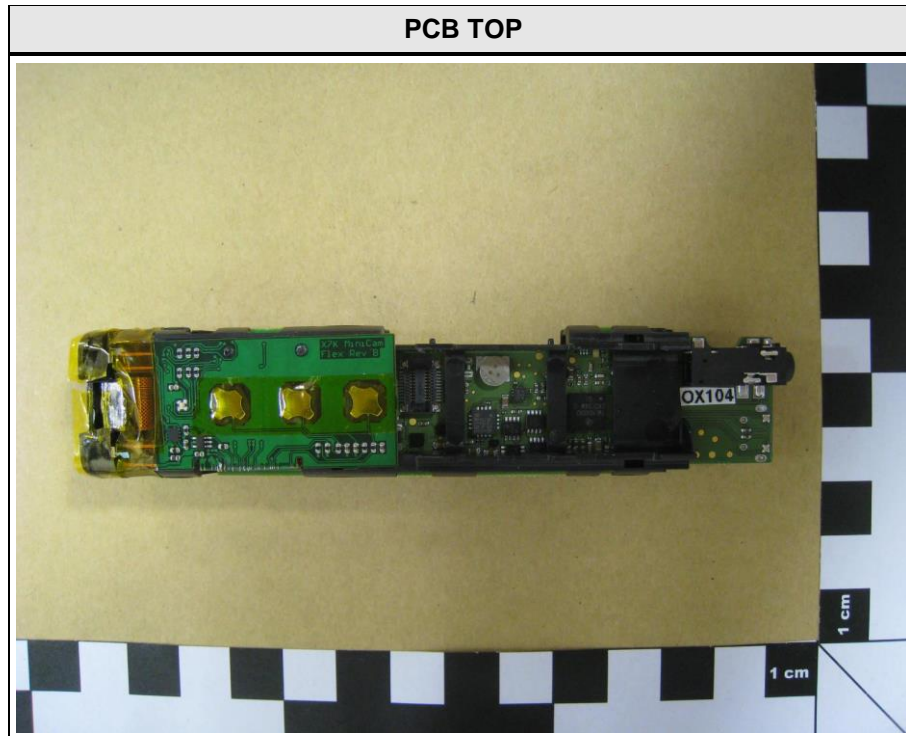
Test Report No.: G0M-1503-4620-TFC247WF-V01

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## 1.2 Photos – Equipment internal

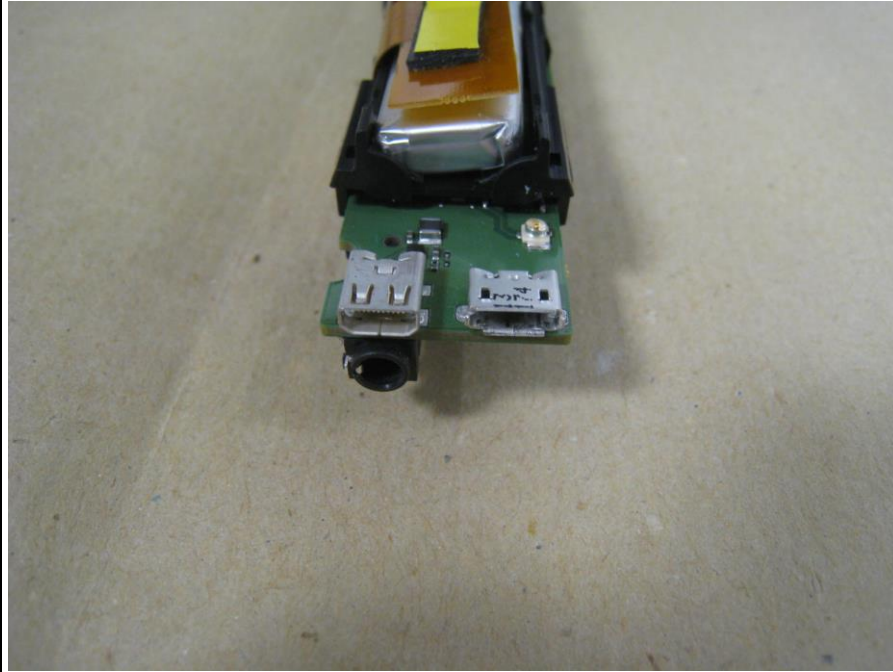


Test Report No.: G0M-1503-4620-TFC247WF-V01

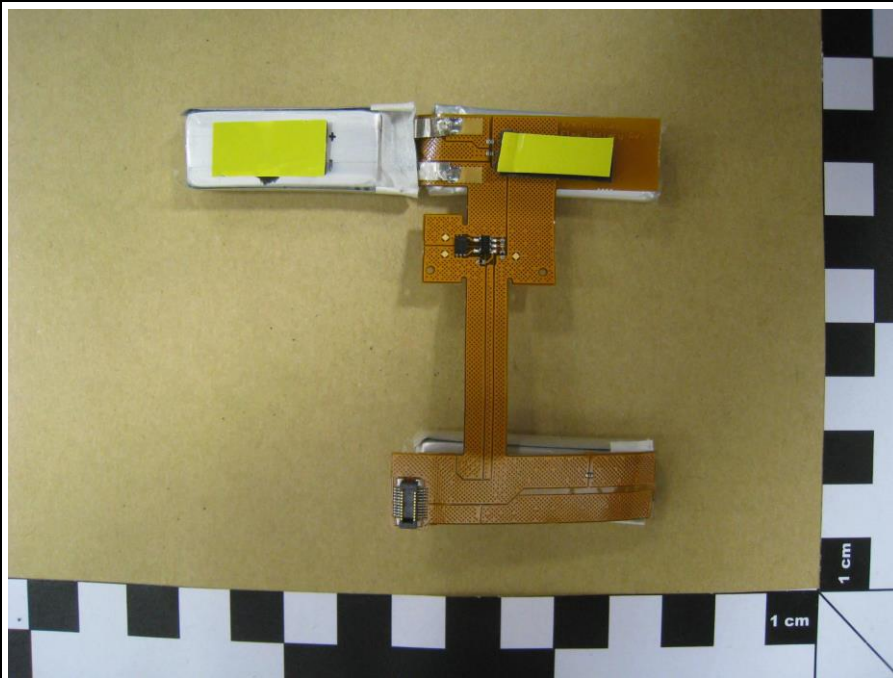
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**EUT CONNECTORS**



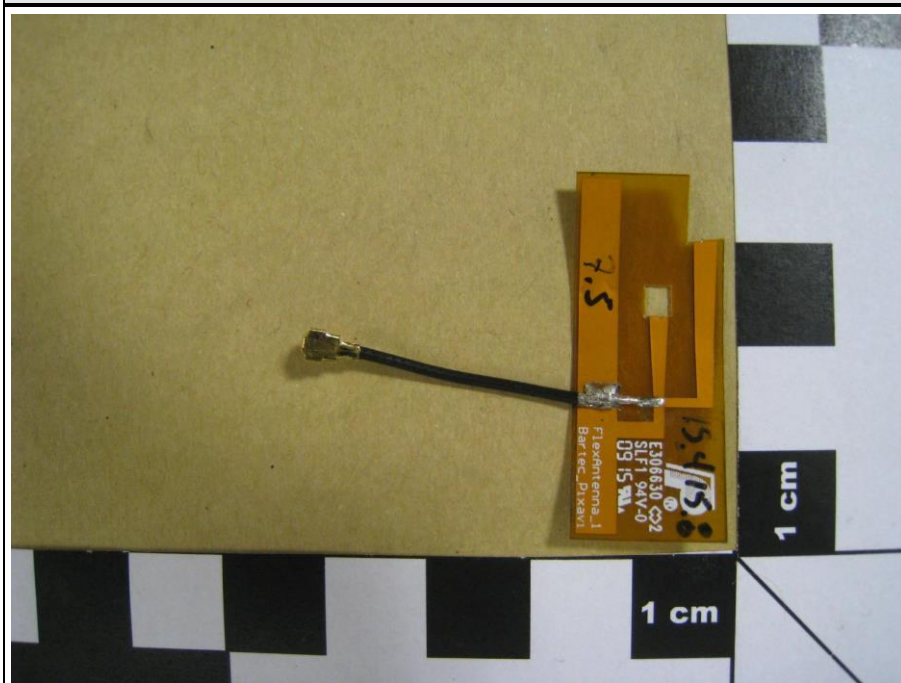
**BATTERY PACK**



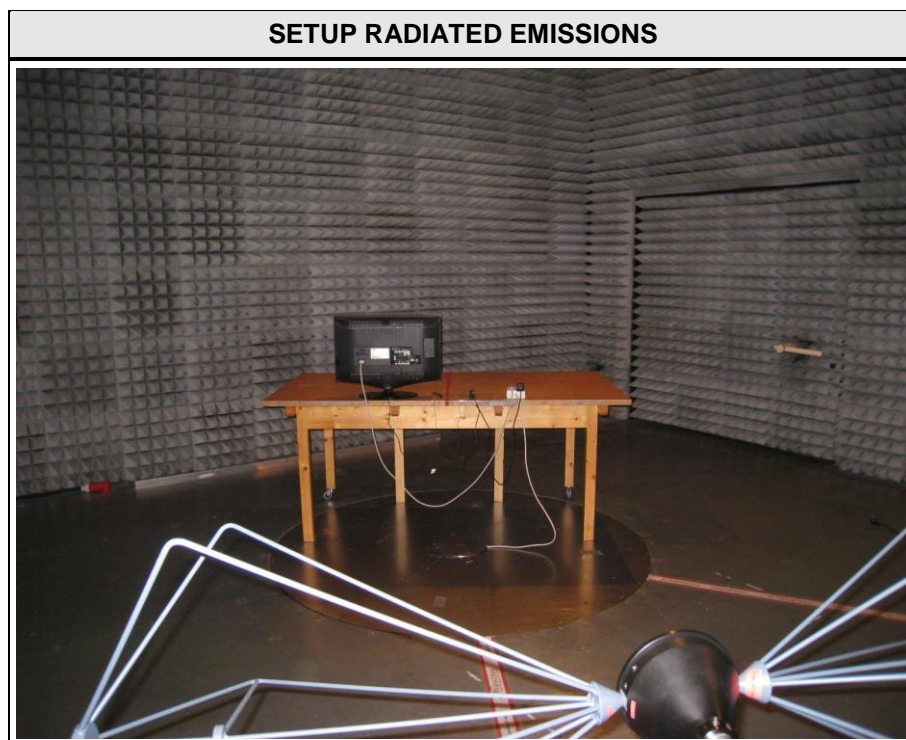
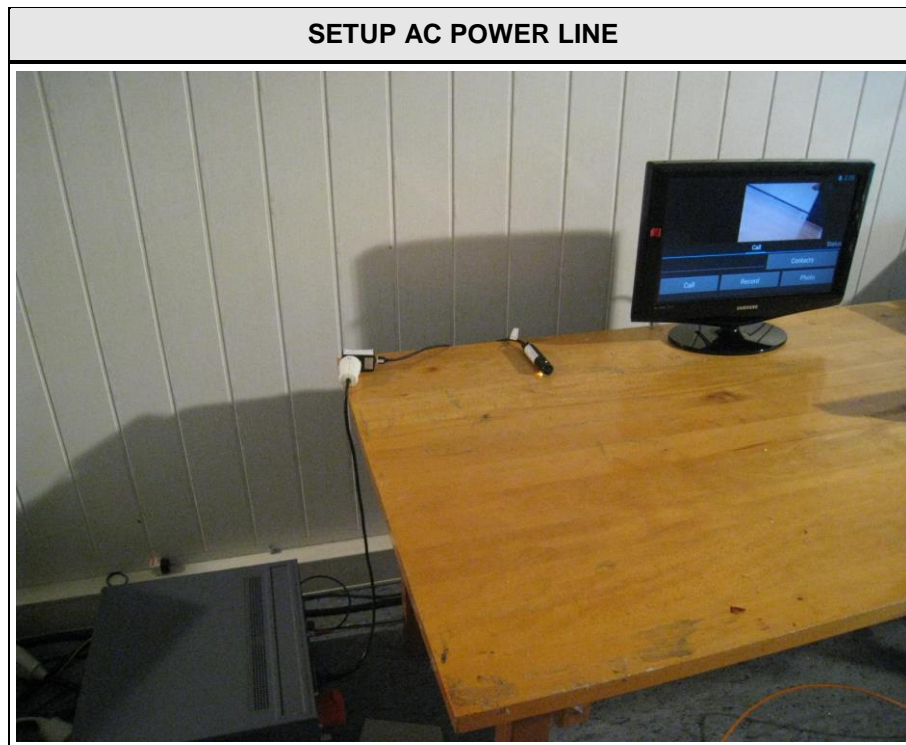
EUT FLEX ANTENNA



FLEX ANTENNA



### 1.3 Photos – Test setup



#### 1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
none				
<p><b>*Note:</b> Use the following abbreviations:</p> <p>AE : Auxiliary/Associated Equipment, or</p> <p>SIM : Simulator (Not Subjected to Test)</p> <p>CABL : Connecting cables</p>				



## 1.5 Test Modes

Mode #	Description	
DSSS	General conditions:	EUT powered via USB
	Radio conditions:	Mode = standalone transmit Spreading = DSSS Modulation = BPSK Data rate = 1 Mbps Bandwidth = 20 MHz Duty cycle = 90 % Power level = 15 dBm (test mode setting)
OFDM	General conditions:	EUT powered via USB
	Radio conditions:	Mode = standalone transmit Spreading = OFDM Modulation = BPSK Data rate = 6 Mbps Bandwidth = 20 MHz Duty cycle = 50 % Power level = 15 dBm (test mode setting)
HT20	General conditions:	EUT powered via USB
	Radio conditions:	Mode = standalone transmit Spreading = OFDM Modulation = BPSK MCS index = 0 Guard Interval = long Bandwidth = 20 MHz Data rate = 6.5 Mbps Duty cycle = 50 % Power level = 15 dBm (test mode setting)
HT40	General conditions:	EUT powered via USB
	Radio conditions:	Mode = standalone transmit Spreading = OFDM Modulation = BPSK MCS index = 0 Guard Interval = long Bandwidth = 40 MHz Data rate = 13 Mbps Duty cycle = 50 % Power level = 15 dBm (test mode setting)
Receive	General conditions:	EUT powered via USB
	Radio conditions:	Mode = standalone receive

Test Report No.: G0M-1503-4620-TFC247WF-V01

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AC-Powerline	General conditions:	EUT powered by commercial AC/DC-Adapter
	Radio conditions:	Mode = standalone transmit Spreading = DSSS Power level = Maximum



## 1.6 Test Equipment Used During Testing

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

Occupied Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

6dB Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Maximum peak conducted power					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Power spectral density					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Band edge compliance					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Conducted spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Radiated spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 1	EF00062	-	-
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02
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

Test Report No.: G0M-1503-4620-TFC247WF-V01

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

## 1.7 Sample emission level calculation

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

Reading:

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

A.F.:

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

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

Net:

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

Limit:

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

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

Margin:

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

Example only:

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

## 2 Result Summary

FCC 47 CFR Part 15C, IC RSS-247				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
RSS-Gen 6.6	Occupied Bandwidth	ANSI C63.10	N/R	Informational only
FCC § 15.247(a)(2) IC RSS-247 § 5.2	6dB Bandwidth	ANSI C63.10	PASS	
FCC § 15.247(b)(3) IC RSS-247 § 5.4	Maximum peak conducted power	ANSI C63.10	PASS	
FCC § 15.247(e) IC RSS-247 § 5.2	Power spectral density	ANSI C63.10	PASS	
47 CFR 15.207 IC RSS-247 § 3.1	AC power line conducted emissions	ANSI C63.4	PASS	
FCC § 15.247(d) IC RSS-247 § 5.5	Band edge compliance	ANSI C63.10	PASS	
FCC § 15.247(d) IC RSS-247 § 5.5	Conducted spurious emissions	ANSI C63.10	PASS	
FCC § 15.247(d) FCC § 15.209 IC RSS-247 § 5.5	Transmitter radiated spurious emissions	ANSI C63.10	PASS	
IC RSS-247 § 3.1	Receiver radiated spurious emissions	ANSI C63.10	PASS	
Remarks:				

### 3 Test Conditions and Results

#### 3.1 Test Conditions and Results – Occupied Bandwidth

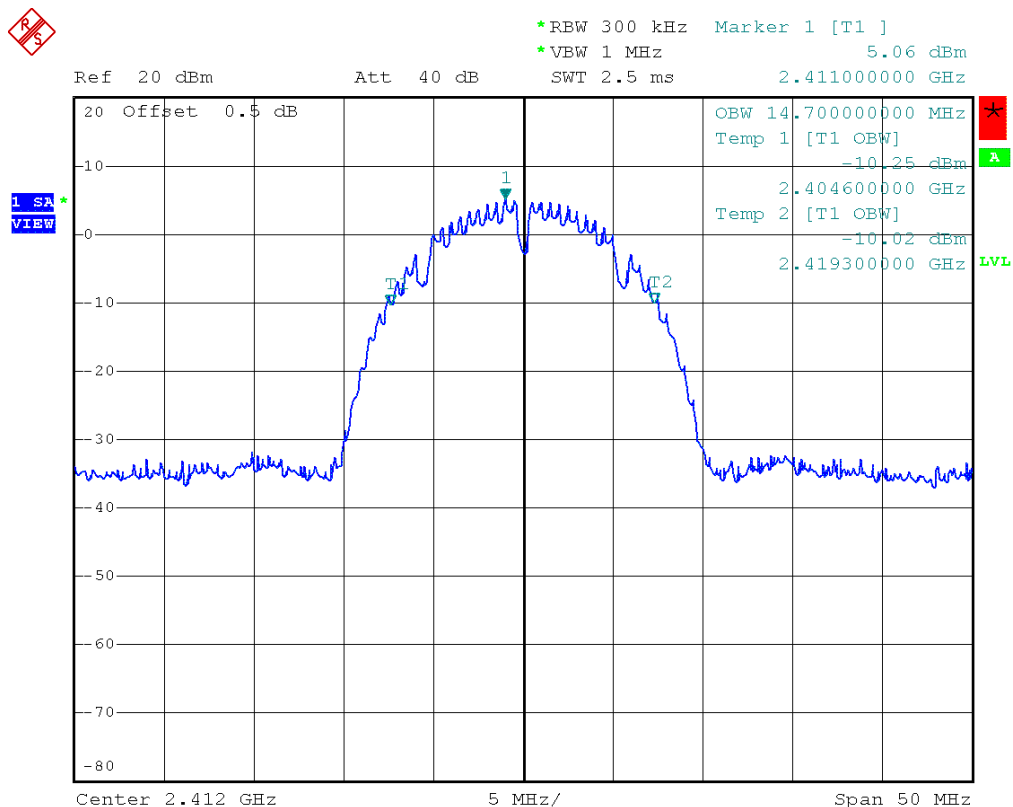
Occupied Bandwidth acc. to IC RSS-Gen			Verdict: N/R
Test according to measurement reference	Reference Method		
	ANSI C63.10		
Test frequency range	Tested frequencies		
	F <sub>LOW</sub> / F <sub>MID</sub> / F <sub>HIGH</sub>		
Limits			
None (Informational only)			
Test setup			
<div><div>Spectrum Analyzer</div><div>EUT</div></div>			
Test procedure			
<div>1. EUT set to test mode (Communication tester is used if needed)</div> <div>2. Span set to at least twice the emission spectrum</div> <div>3. Resolution bandwidth set to 1 % of span</div> <div>4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function</div>			
Test results			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
F <sub>LOW20</sub>	2412	DSSS	14700
F <sub>MID20</sub>	2437	DSSS	14900
F <sub>HIGH20</sub>	2462	DSSS	14800
F <sub>LOW20</sub>	2412	OFDM	16600
F <sub>MID20</sub>	2437	OFDM	17400
F <sub>HIGH20</sub>	2462	OFDM	16600
F <sub>LOW20</sub>	2412	HT20	17700
F <sub>MID20</sub>	2437	HT20	18600
F <sub>HIGH20</sub>	2462	HT20	17700
F <sub>LOW40</sub>	2422	HT40	35840
F <sub>MID40</sub>	2437	HT40	36000
F <sub>HIGH40</sub>	2452	HT40	36000
Comments:			

# Occupied Bandwidth – DSSS F<sub>LOW</sub>

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11b, 1 Mbps, 2412 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 14700 KHz  
Date: 1.JAN.2000 01:27:47

Test Report No.: G0M-1503-4620-TFC247WF-V01

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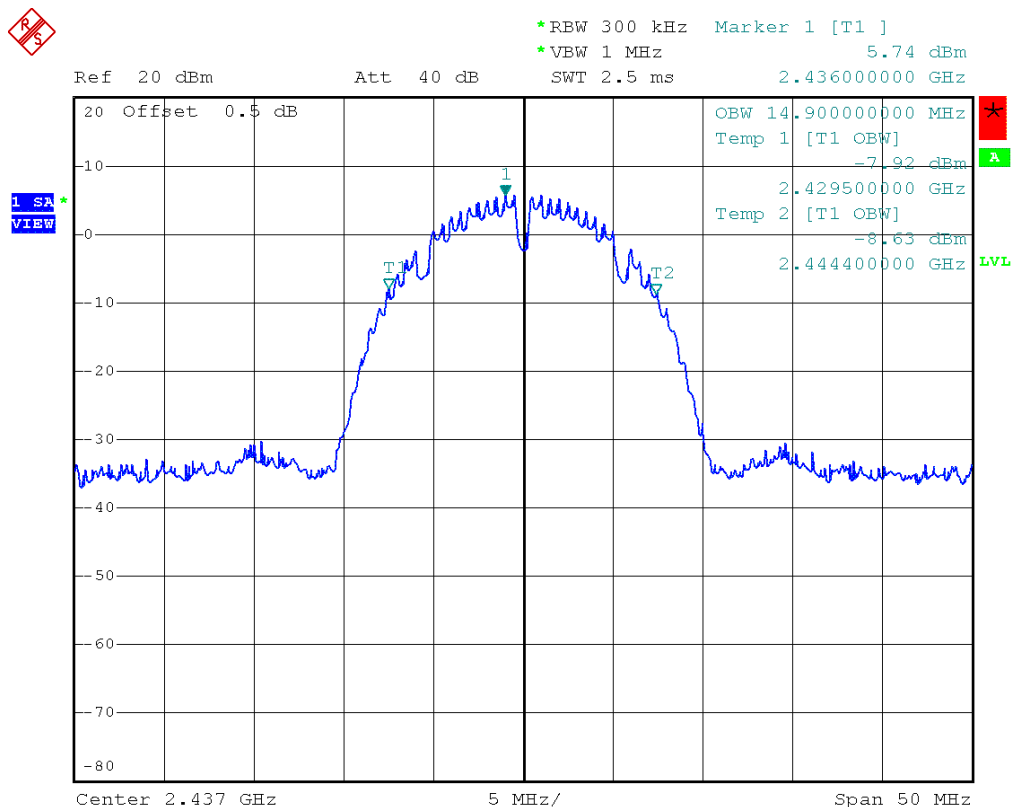


# Occupied Bandwidth – DSSS F<sub>MID</sub>

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11b, 1 Mbps, 2437 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 14900 KHz  
Date: 1.JAN.2000 01:35:53

Test Report No.: G0M-1503-4620-TFC247WF-V01

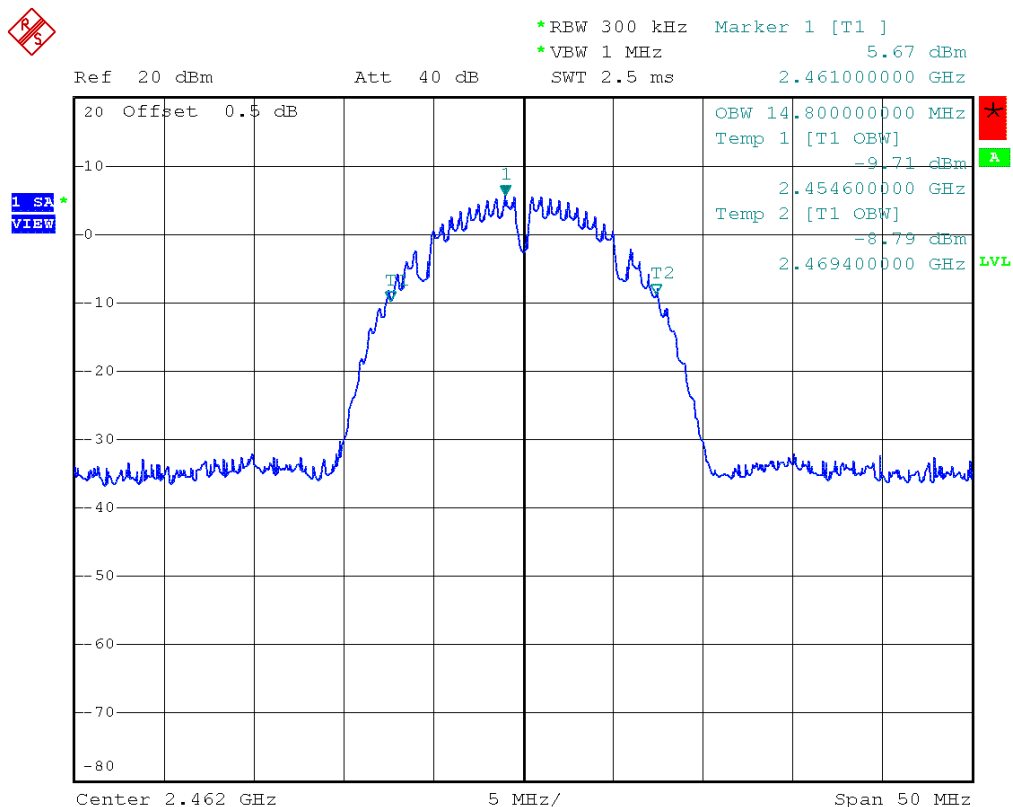
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

# Occupied Bandwidth – DSSS F<sub>HIGH</sub>

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11b, 1 Mbps, 2462 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 14800 KHz  
Date: 1.JAN.2000 01:37:46

Test Report No.: G0M-1503-4620-TFC247WF-V01

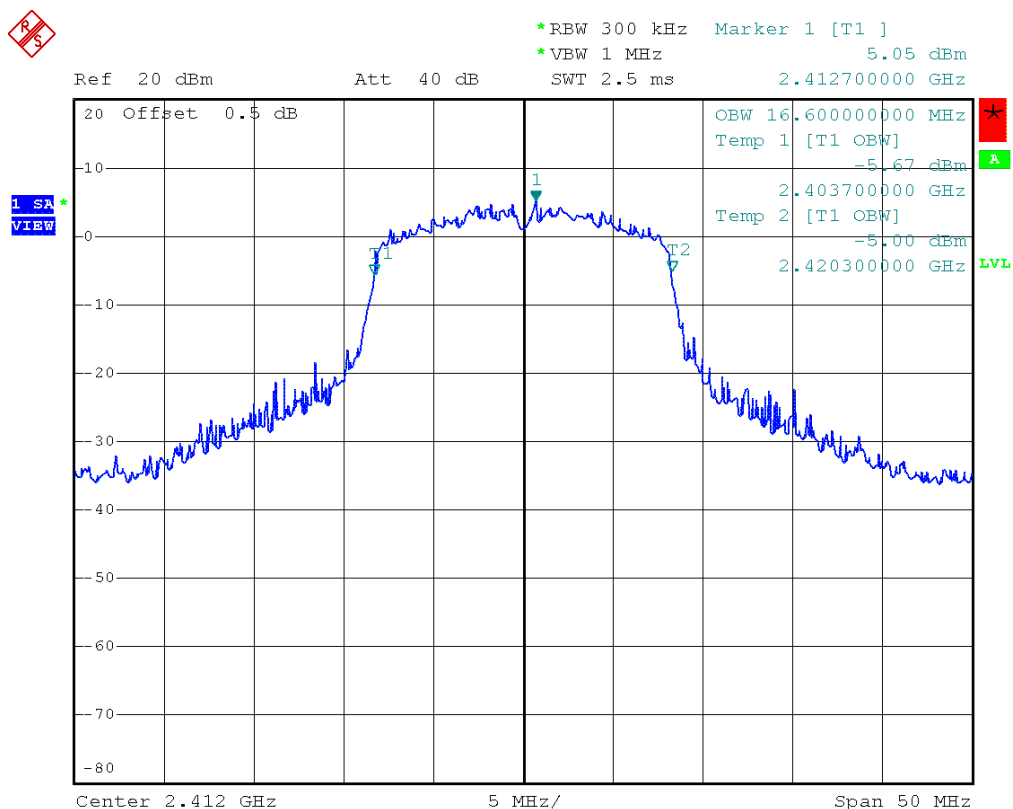
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# Occupied Bandwidth – OFDM F<sub>Low</sub>

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11g, 6 Mbps, 2412 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 16600 KHz  
Date: 1.JAN.2000 01:40:30

Test Report No.: G0M-1503-4620-TFC247WF-V01

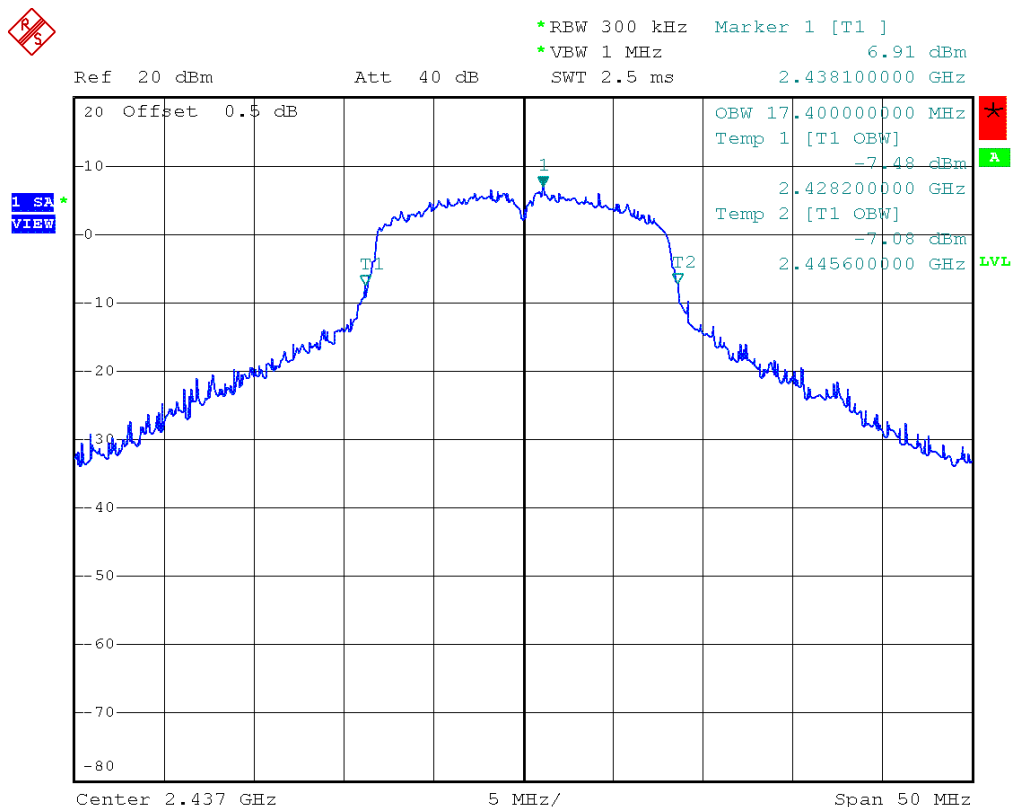
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

# Occupied Bandwidth – OFDM $F_{\text{MD}}$

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11g, 6 Mbps, 2437 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 17400 KHz  
Date: 1.JAN.2000 01:44:53

Test Report No.: G0M-1503-4620-TFC247WF-V01

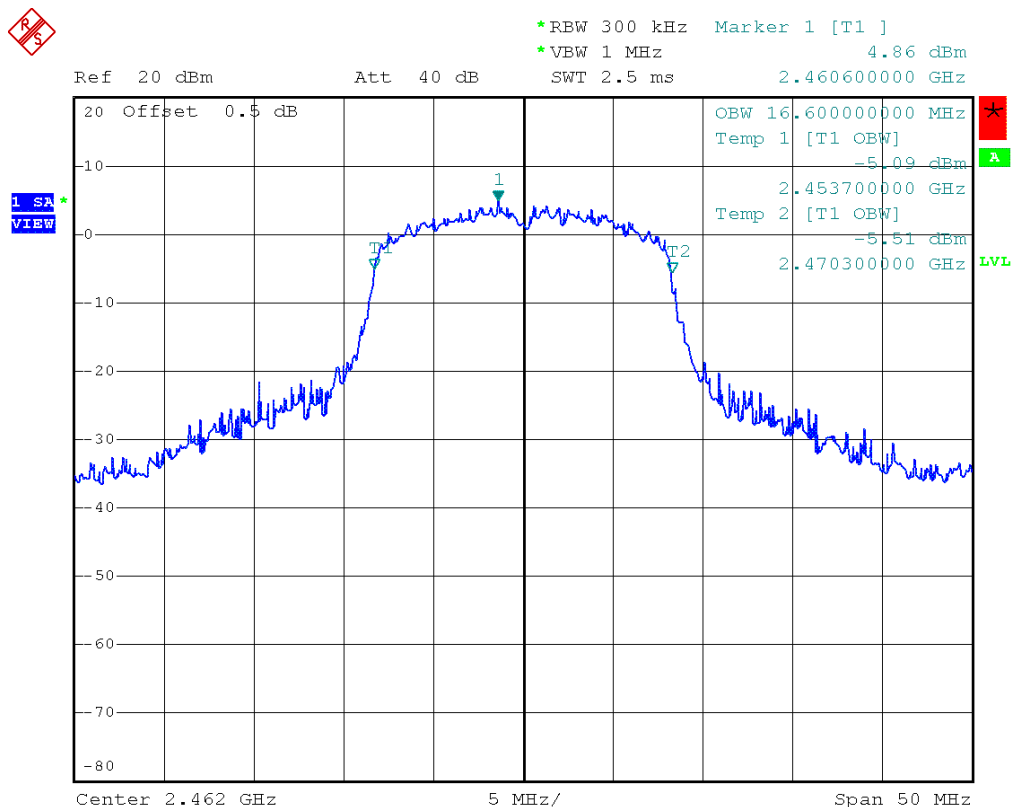
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

# Occupied Bandwidth – OFDM F<sub>HIGH</sub>

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11g, 6 Mbps, 2462 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 16600 KHz  
Date: 1.JAN.2000 01:45:58

Test Report No.: G0M-1503-4620-TFC247WF-V01

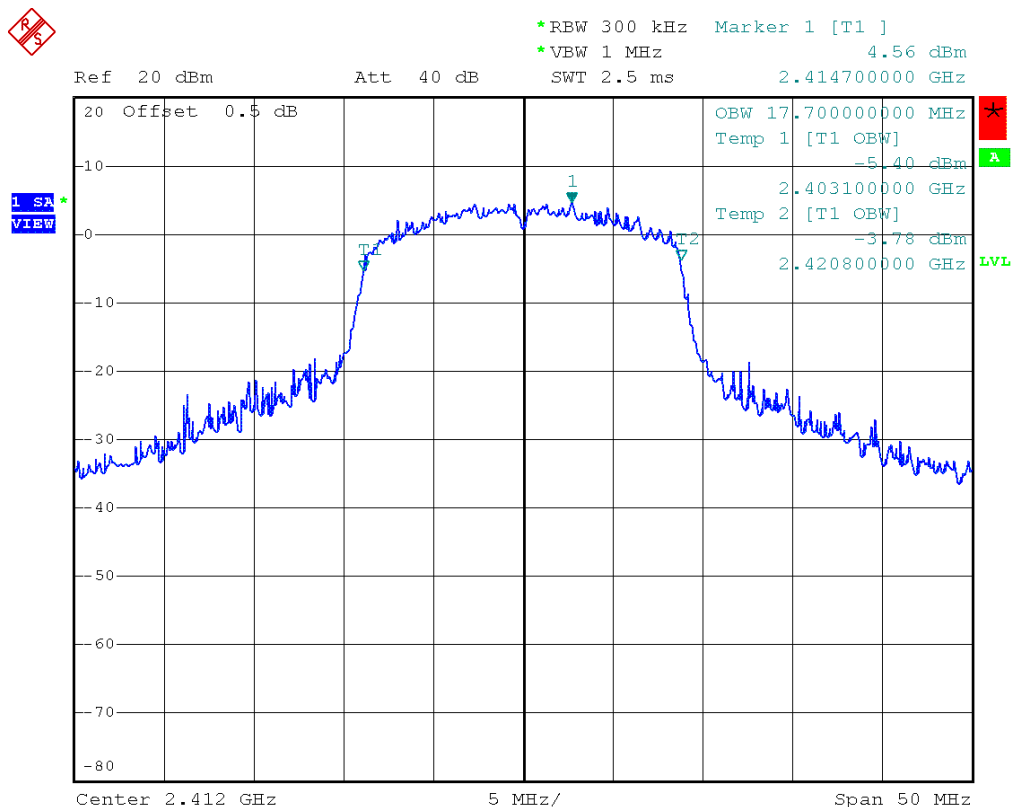
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

# Occupied Bandwidth – HT20 F<sub>Low</sub>

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11n, HT20, 2412 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 17700 KHz  
Date: 1.JAN.2000 01:49:15

Test Report No.: G0M-1503-4620-TFC247WF-V01

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Storkower Str. 38c, D-15526 Reichenwalde, Germany

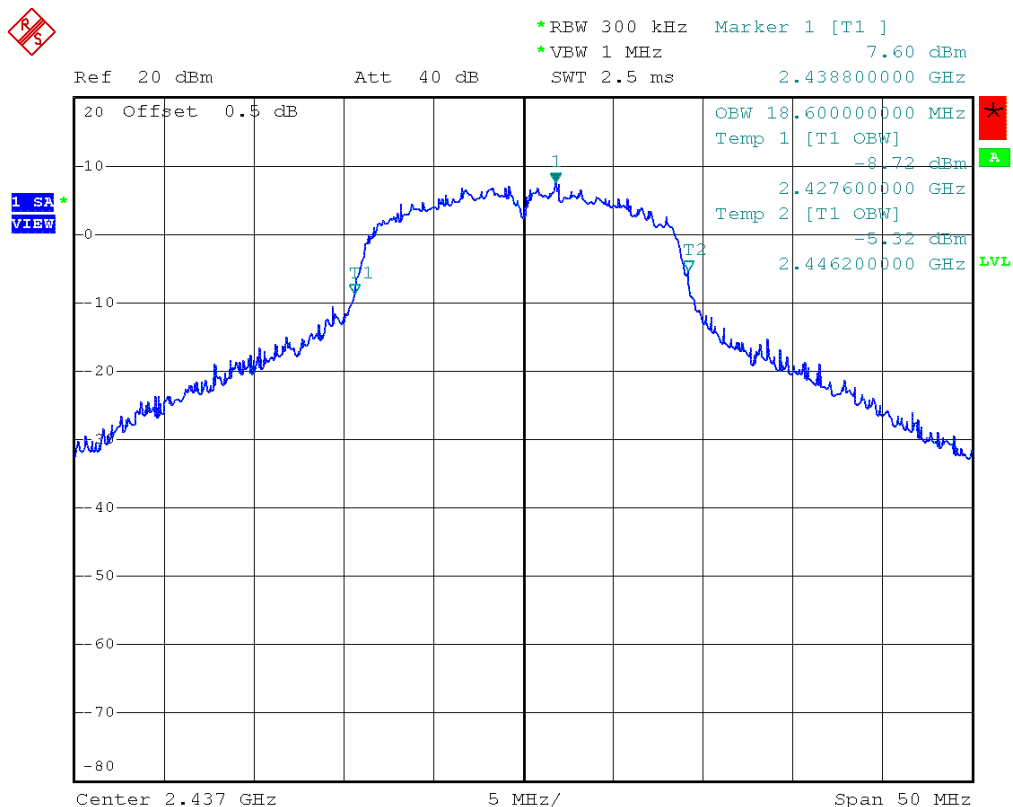


# Occupied Bandwidth – HT20 F<sub>MID</sub>

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11n, HT20, 2437 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 18600 KHz  
Date: 1.JAN.2000 01:58:09

Test Report No.: G0M-1503-4620-TFC247WF-V01

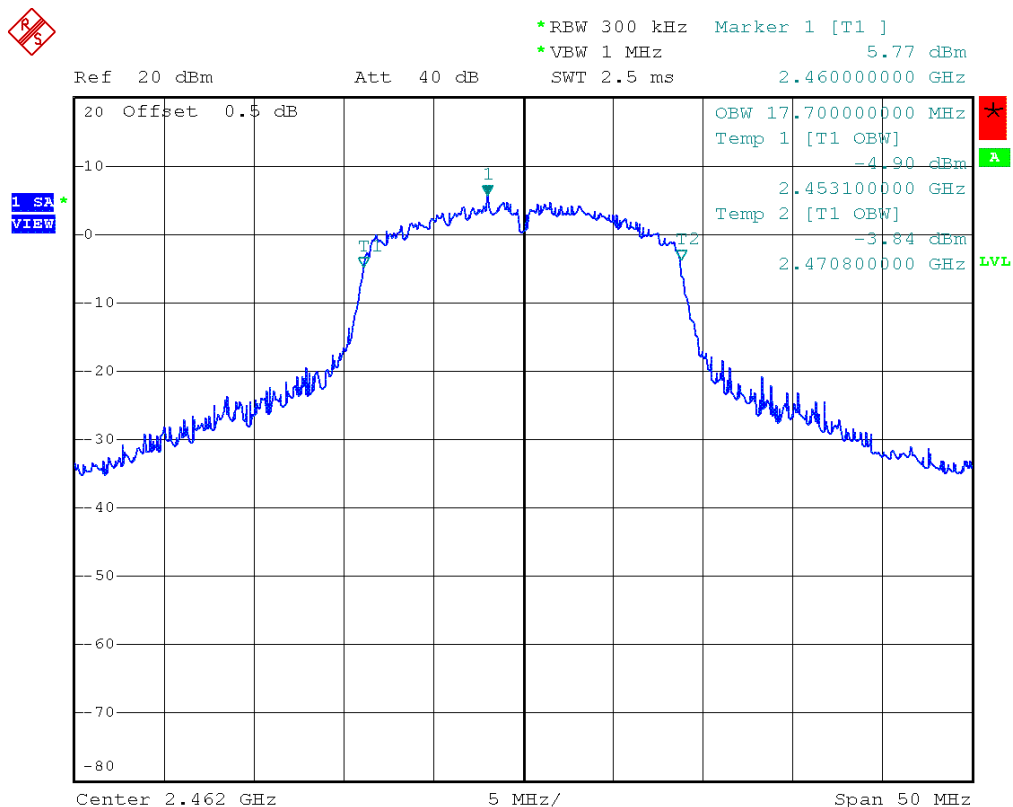
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

# Occupied Bandwidth – HT20 F<sub>HIGH</sub>

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11n, HT20, 2462 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 17700 KHz  
Date: 1.JAN.2000 02:00:03

Test Report No.: G0M-1503-4620-TFC247WF-V01

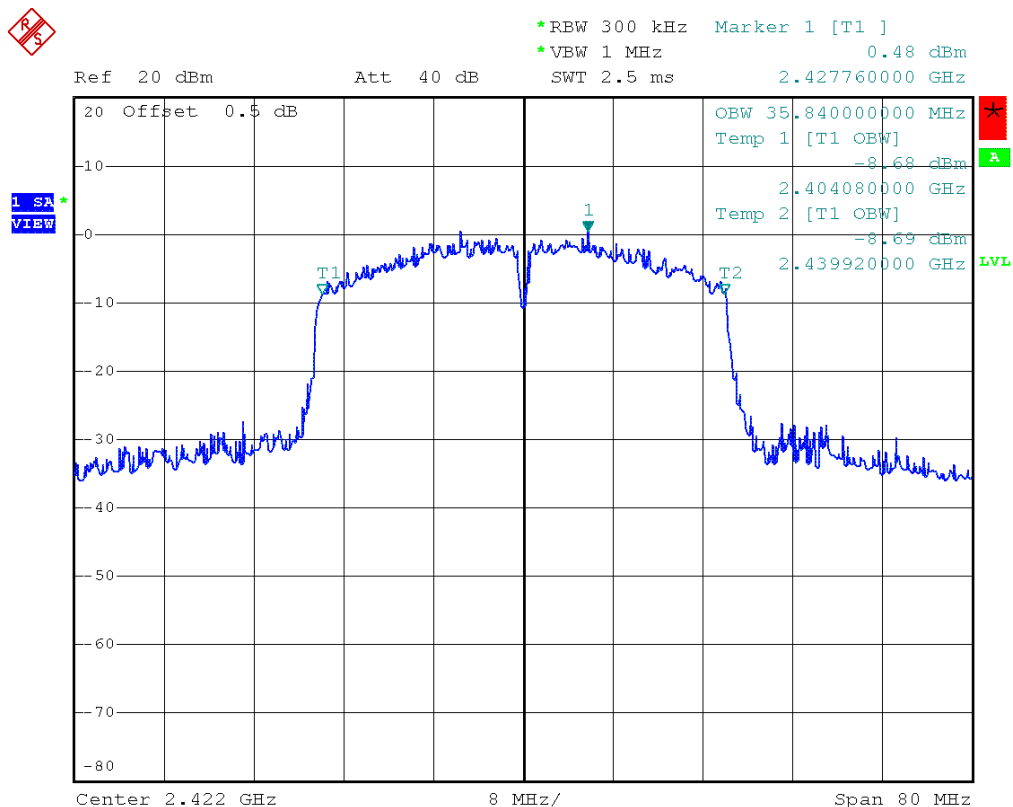
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

# Occupied Bandwidth – HT40 F<sub>Low</sub>

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11n, HT40, 2422 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 35840 KHz  
Date: 1.JAN.2000 02:03:45

Test Report No.: G0M-1503-4620-TFC247WF-V01

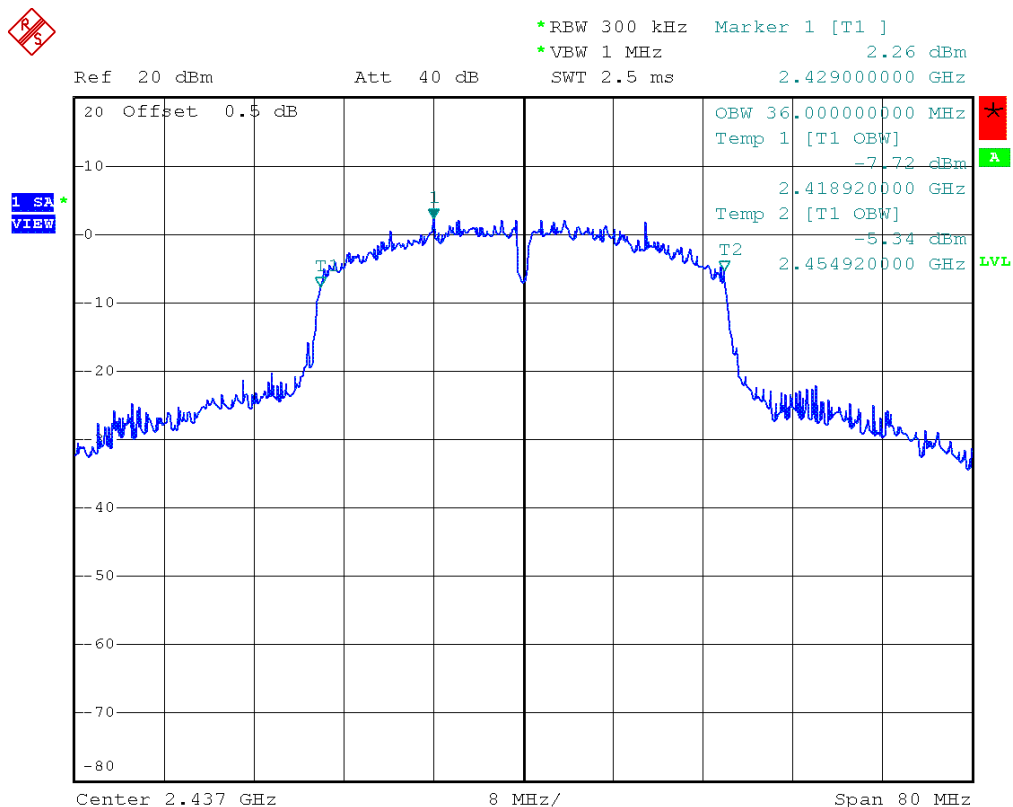
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

# Occupied Bandwidth – HT40 F<sub>MID</sub>

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11n, HT40, 2437 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 36000 KHz  
Date: 1.JAN.2000 02:06:06

Test Report No.: G0M-1503-4620-TFC247WF-V01

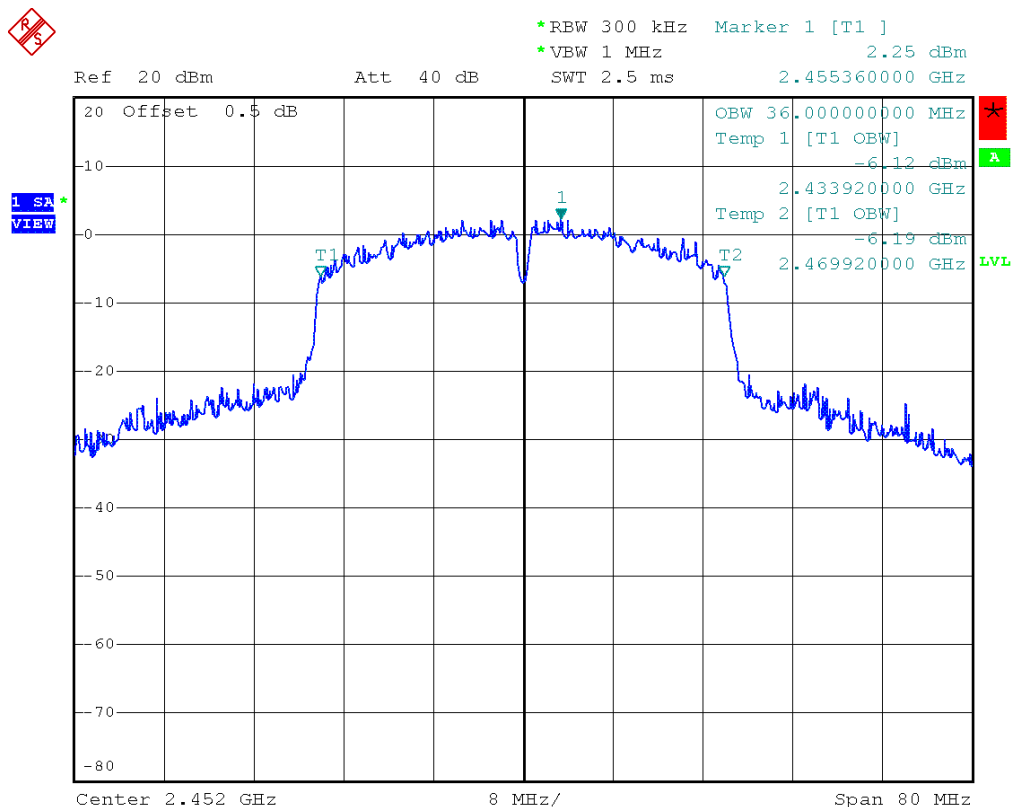
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

# Occupied Bandwidth – HT40 F<sub>HIGH</sub>

## Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11n, HT40, 2452 MHz, modulated  
Test Date: 2015-04-24  
Verdict: NONE (INFORMATION ONLY)  
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
Note 2: conducted measurement



Comment: Occupied bandwidth: 36000 KHz  
Date: 1.JAN.2000 02:40:51

Test Report No.: G0M-1503-4620-TFC247WF-V01

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

### 3.2 Test Conditions and Results – 6 dB Bandwidth

6dB Bandwidth acc. to FCC 15.247 / IC RSS-247		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC 15.247(a)(2) / IC RSS-247 5.2	
Test according to measurement reference	Reference Method	
	ANSI C63.10	
Test frequency range	Tested frequencies	
	F <sub>LOW</sub> / F <sub>MID</sub> / F <sub>HIGH</sub>	
Limits		
Limit		
≥ 500kHz		
Test setup		
<div><div>Spectrum Analyzer</div><div>EUT</div></div>		
Test procedure		
<div>1. EUT set to test mode</div> <div>2. Span set to at least twice the emission spectrum</div> <div>3. Detector set to peak and max hold and RBW is set to 100 kHz</div> <div>4. Envelope peak value of emission spectrum is selected</div> <div>5. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak</div> <div>6. Marker on envelope of spectrum is set to level of -6 dB to the right of the peak</div> <div>7. 6 dB Bandwidth is determined by marker frequency separation</div>		

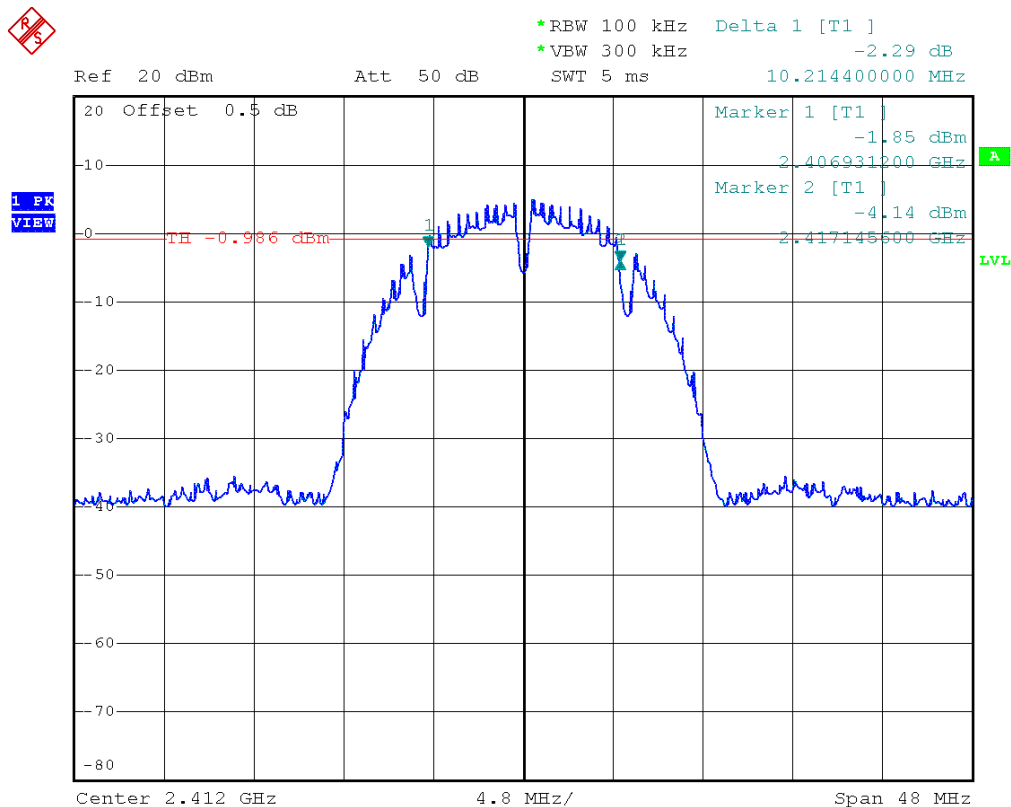


Test results					
Channel	Frequency [MHz]	Mode	6 dB Bandwidth [kHz]	Limit [kHz]	Result
F <sub>LOW20</sub>	2412	DSSS	10214.4	500	PASS
F <sub>MID20</sub>	2437	DSSS	10214.4	500	PASS
F <sub>HIGH20</sub>	2462	DSSS	10214.4	500	PASS
F <sub>LOW20</sub>	2412	OFDM	15225.6	500	PASS
F <sub>MID20</sub>	2437	OFDM	15187.2	500	PASS
F <sub>HIGH20</sub>	2462	OFDM	15744.0	500	PASS
F <sub>LOW20</sub>	2412	HT20	15206.4	500	PASS
F <sub>MID20</sub>	2437	HT20	15225.6	500	PASS
F <sub>HIGH20</sub>	2462	HT20	15225.6	500	PASS
F <sub>LOW40</sub>	2422	HT40	32961.6	500	PASS
F <sub>MID40</sub>	2437	HT40	31665.6	500	PASS
F <sub>HIGH40</sub>	2452	HT40	32961.6	500	PASS
Comments:					

6 dB Bandwidth – DSSS F<sub>LOW</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11b, 1 Mbps, 2412 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted



Comment: 6 dB bandwidth: 10214.4 KHz > 500 KHz  
 Date: 1.JAN.2000 02:54:48

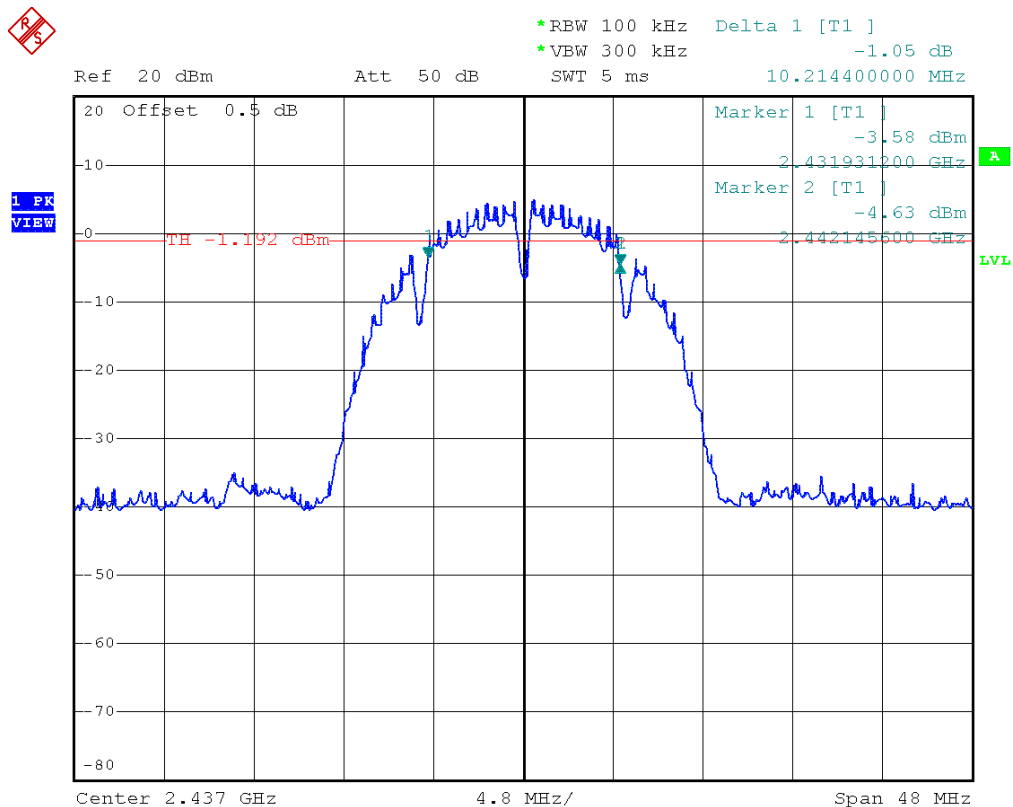
Test Report No.: G0M-1503-4620-TFC247WF-V01

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

6 dB Bandwidth – DSSS F<sub>MID</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11b, 1 Mbps, 2437 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted

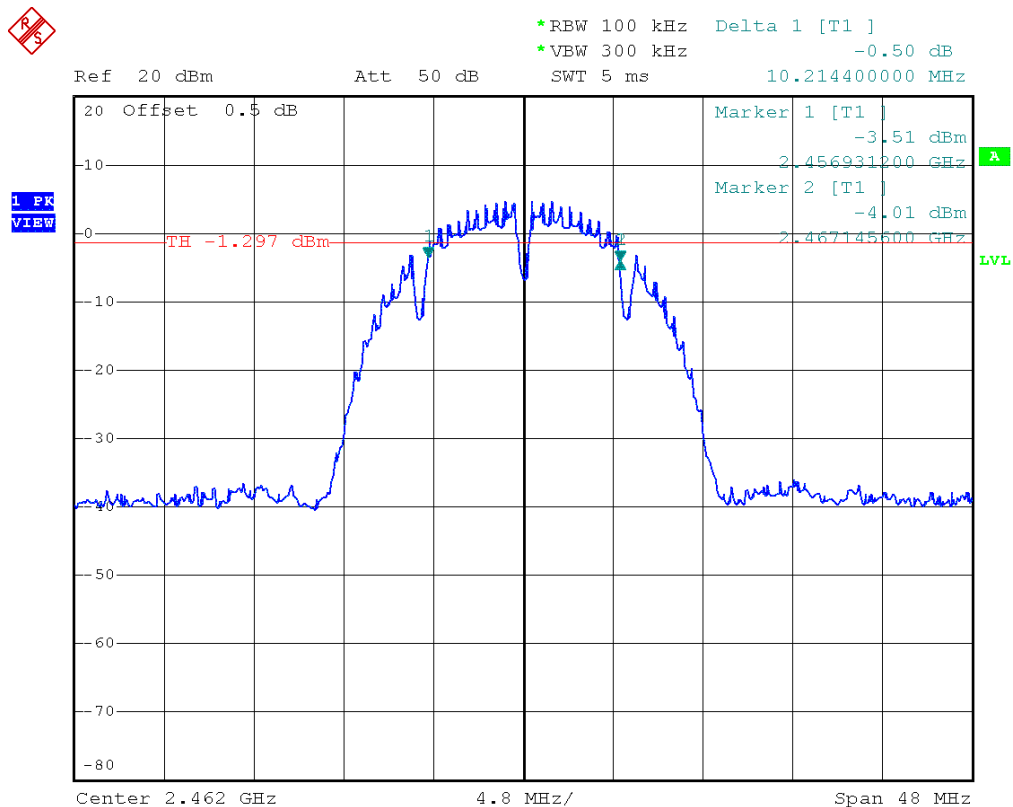


Comment: 6 dB bandwidth: 10214.4 KHz > 500 KHz  
 Date: 1.JAN.2000 02:56:15

6 dB Bandwidth – DSSS F<sub>HIGH</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11b, 1 Mbps, 2462 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted



Comment: 6 dB bandwidth: 10214.4 KHz > 500 KHz  
 Date: 1.JAN.2000 02:57:51

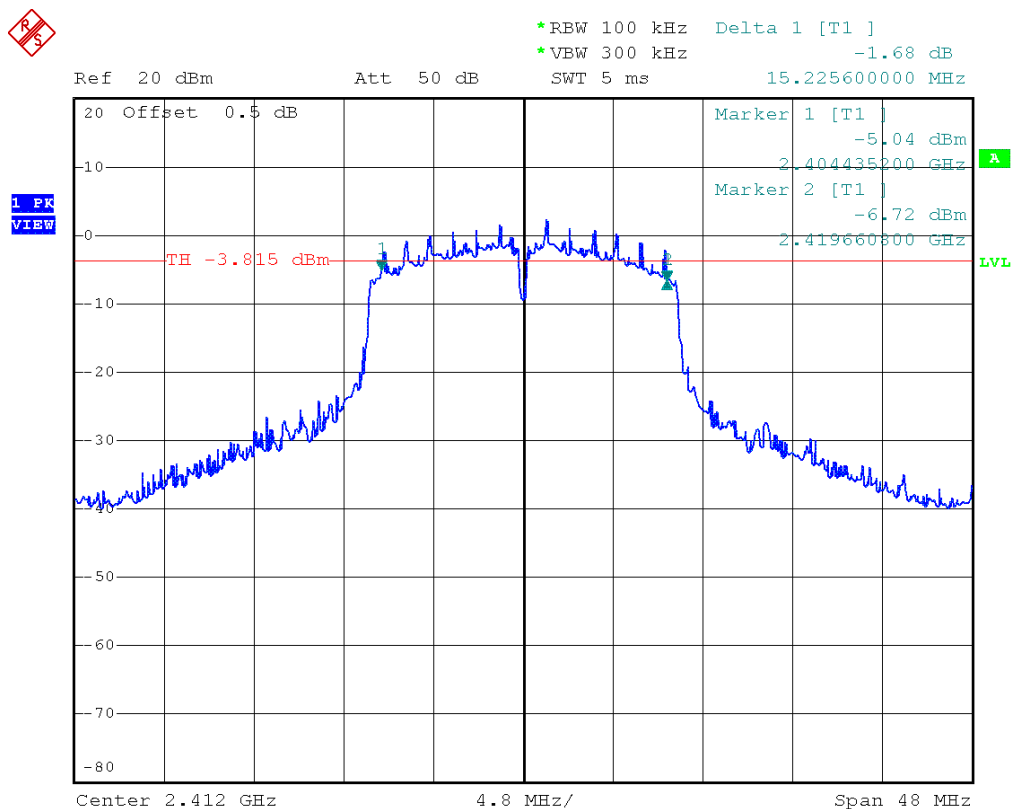
Test Report No.: G0M-1503-4620-TFC247WF-V01

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

6 dB Bandwidth – OFDM F<sub>LOW</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11g, 6 Mbps, 2412 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted

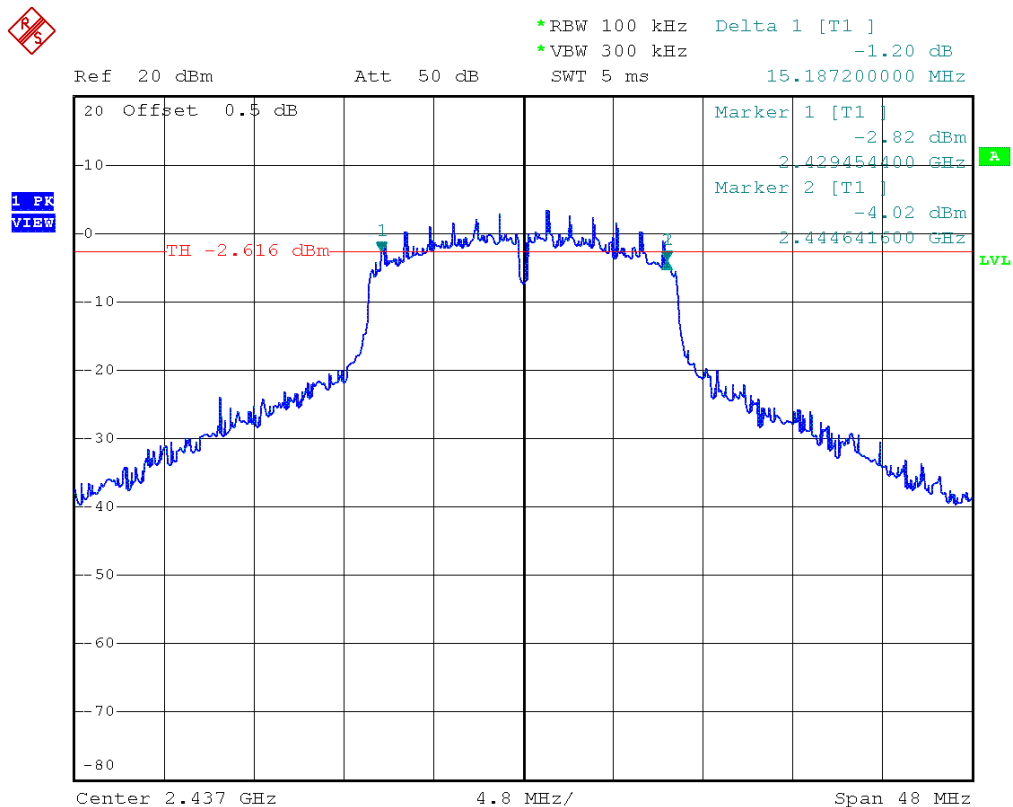


Comment: 6 dB bandwidth: 15225.6 KHz > 500 KHz  
 Date: 1.JAN.2000 02:59:28

6 dB Bandwidth – OFDM F<sub>MID</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11g, 6 Mbps, 2437 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted

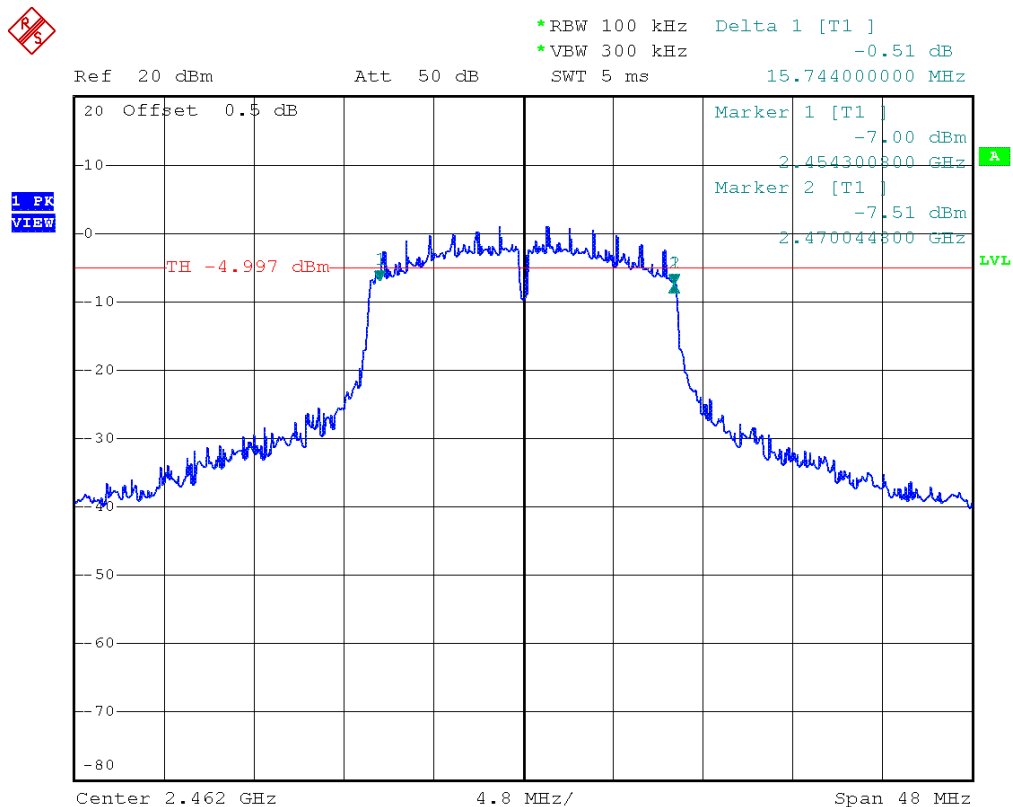


Comment: 6 dB bandwidth: 15187.2 KHz > 500 KHz  
 Date: 1.JAN.2000 03:00:40

6 dB Bandwidth – OFDM F<sub>HIGH</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11g, 6 Mbps, 2462 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted



Comment: 6 dB bandwidth: 15744 KHz > 500 KHz  
 Date: 1.JAN.2000 03:02:32

Test Report No.: G0M-1503-4620-TFC247WF-V01

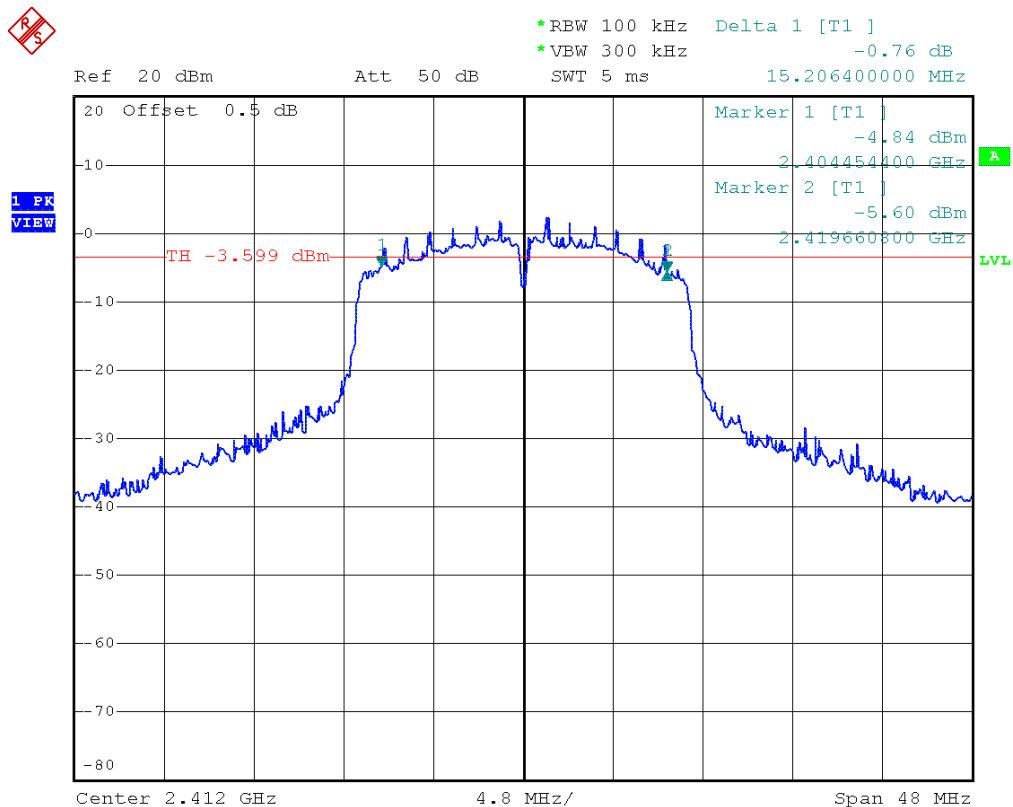
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany



6 dB Bandwidth – HT20 F<sub>Low</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11n, HT20, 2412 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted

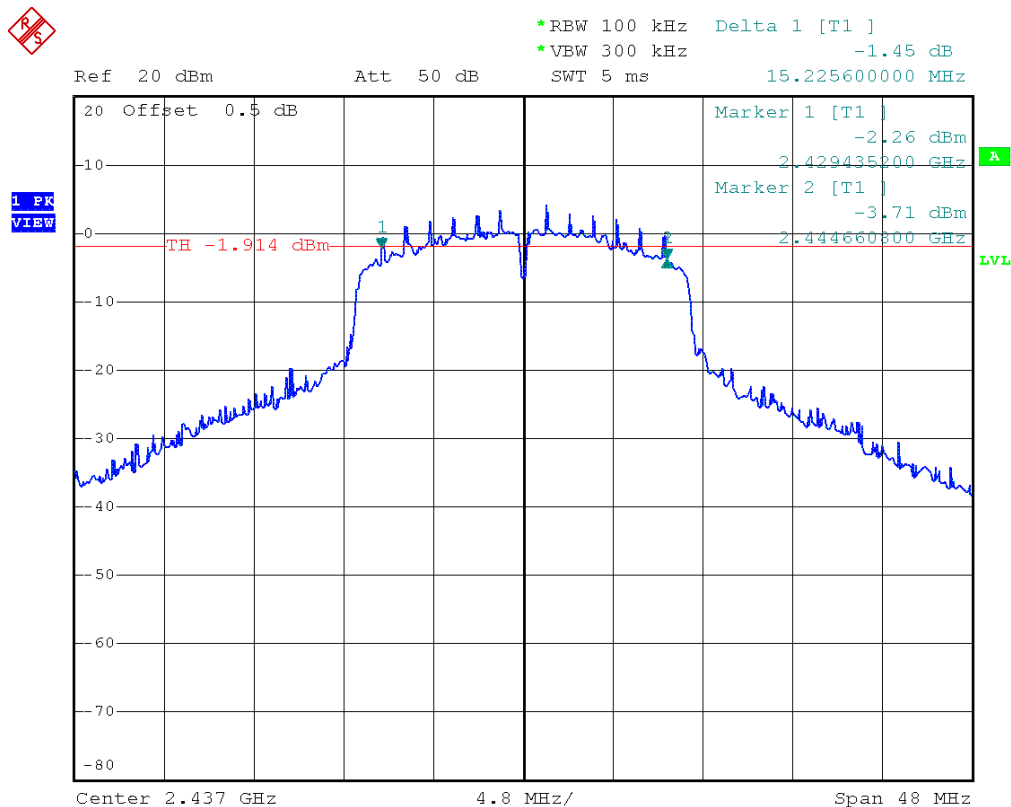


Comment: 6 dB bandwidth: 15206.4 KHz > 500 KHz  
 Date: 1.JAN.2000 02:51:01

6 dB Bandwidth – HT20 F<sub>MID</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11n, HT20, 2437 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted

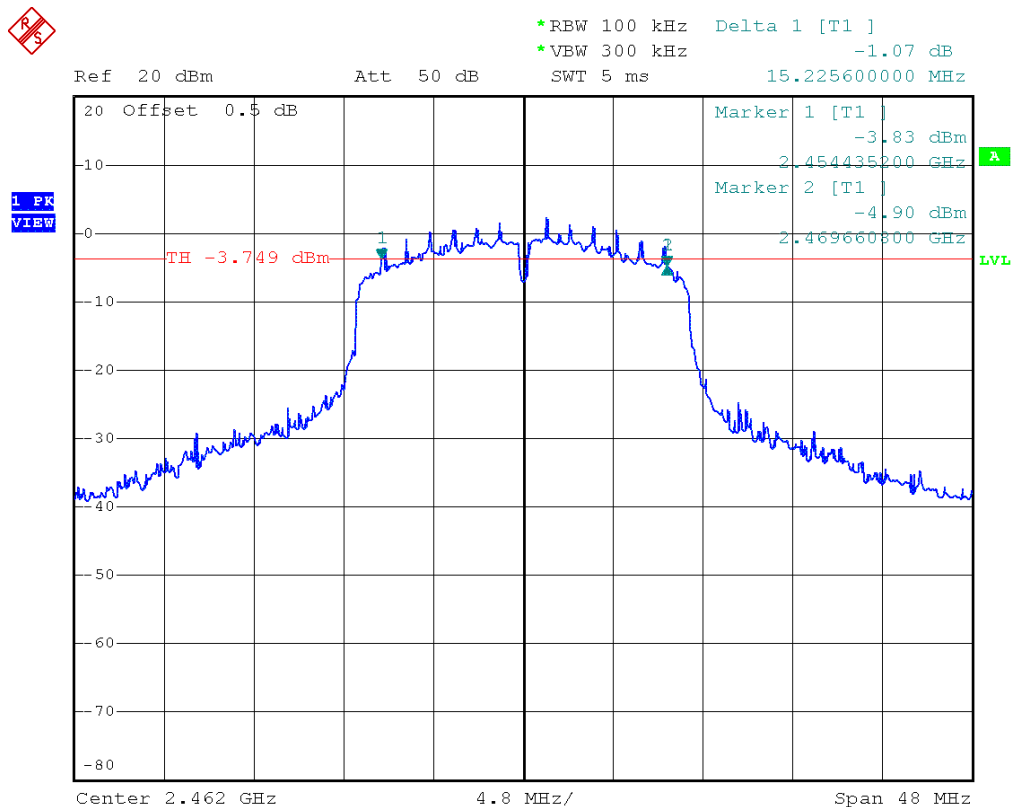


Comment: 6 dB bandwidth: 15225.6 KHz > 500 KHz  
 Date: 1.JAN.2000 02:46:48

6 dB Bandwidth – HT20 F<sub>HIGH</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11n, HT20, 2462 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted

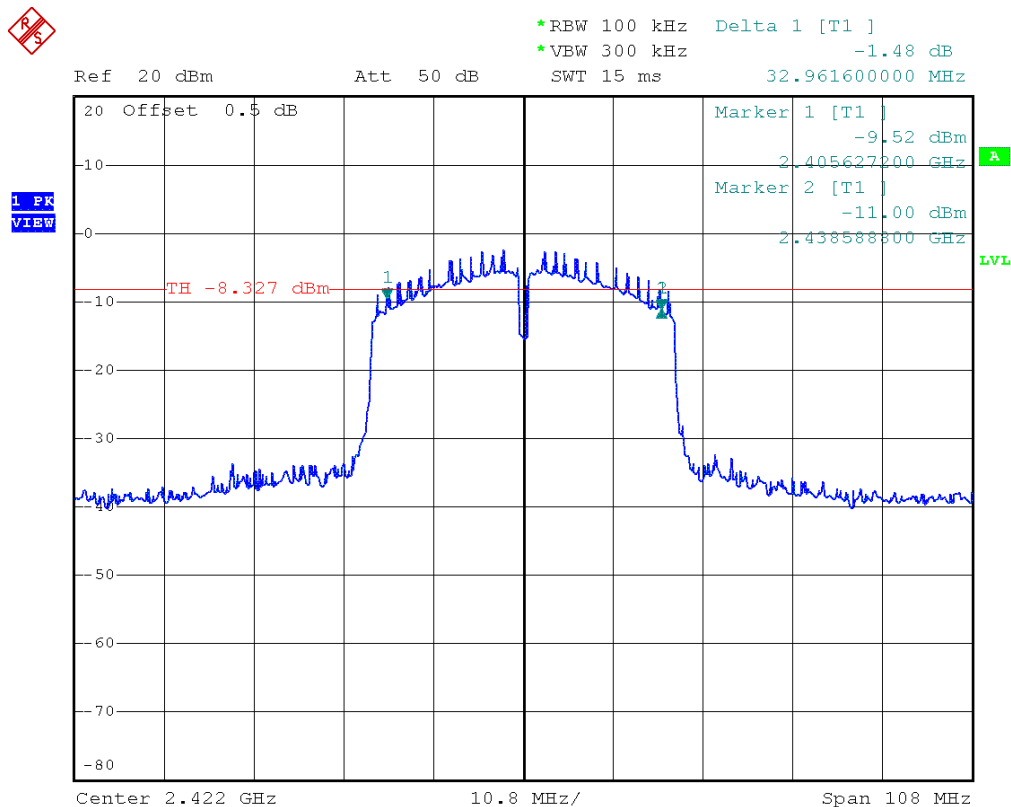


Comment: 6 dB bandwidth: 15225.6 KHz > 500 KHz  
 Date: 1.JAN.2000 02:49:14

6 dB Bandwidth – HT40 F<sub>Low</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11n, HT40, 2422 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted



Comment: 6 dB bandwidth: 32961.6 KHz > 500 KHz  
 Date: 1.JAN.2000 02:26:02

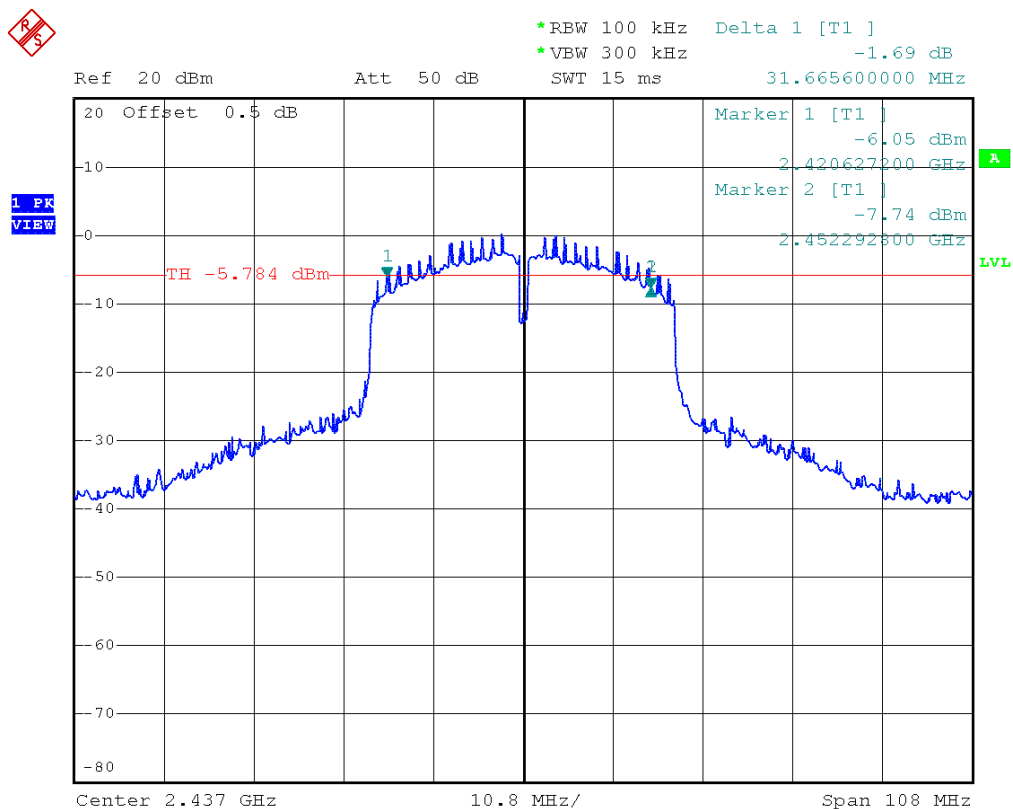
Test Report No.: G0M-1503-4620-TFC247WF-V01

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

6 dB Bandwidth – HT40 F<sub>MID</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11n, HT40, 2437 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted



Comment: 6 dB bandwidth: 31665.6 KHz > 500 KHz  
 Date: 1.JAN.2000 02:24:29

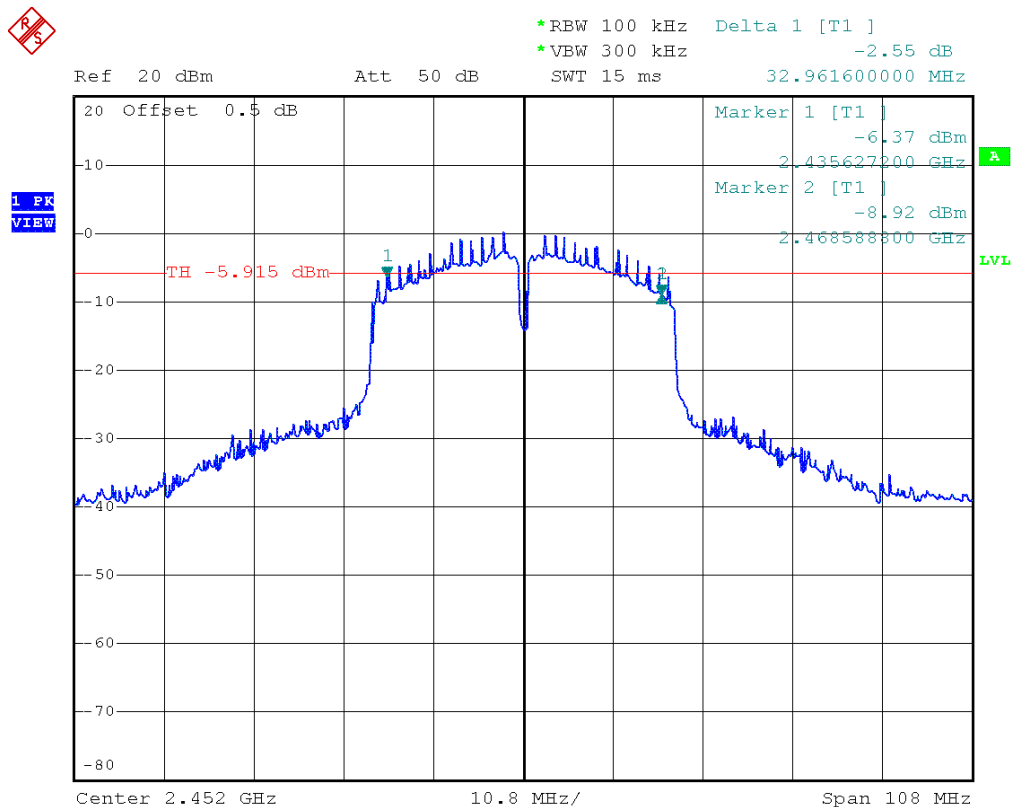
Test Report No.: G0M-1503-4620-TFC247WF-V01

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

6 dB Bandwidth – HT40 F<sub>HIGH</sub>
**Minimum 6 dB Bandwidth acc. to FCC 15.247**

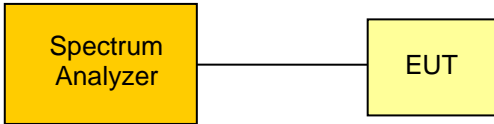
Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11n, HT40, 2452 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: Minimum 6 dB Bandwidth conducted



Comment: 6 dB bandwidth: 32961.6 KHz > 500 KHz  
 Date: 1.JAN.2000 02:21:15


### 3.3 Test Conditions and Results – Maximum peak conducted power

Maximum peak conducted power acc. to FCC 15.247 / IC RSS-247		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC 15.247(b)(3) / IC RSS-247 5.4	
Test according to measurement reference	Reference Method	
	ANSI C63.10	
Test frequency range	Tested frequencies	
	$F_{\text{LOW}} / F_{\text{MID}} / F_{\text{HIGH}}$	
Measurement mode	Peak	
Maximum antenna gain	0.0 dBi $\Rightarrow$ Limit correction = 0 dB	
<b>Limits</b>		
Limit		
1 W (30 dBm)		
The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.		
<b>Test setup</b>		
		
<b>Test procedure</b>		
<ol style="list-style-type: none"> <li>1. EUT set to test mode (Communication tester is used if needed)</li> <li>2. Center frequency set to test channel center frequency</li> <li>3. Span set to twice the 20 dB bandwidth and detector to peak and max hold</li> <li>4. Resolution bandwidth is set to 3 MHz</li> <li>5. Peak conducted power is determined from peak of spectrum envelope</li> </ol>		



Test results							
Channel	Frequency [MHz]	Voltage	Mode	Peak power [dbm]	Peak power [W]	Limit [dBm]	Margin [dB]
F <sub>LOW20</sub>	2412	3.7 VDC	DSSS	16.9	0.049	30	-13.10
F <sub>MID20</sub>	2437	3.7 VDC	DSSS	17.1	0.051	30	-12.90
F <sub>HIGH20</sub>	2462	3.7 VDC	DSSS	17.1	0.051	30	-12.90
F <sub>LOW20</sub>	2412	3.7 VDC	OFDM	18.6	0.072	30	-11.40
F <sub>MID20</sub>	2437	3.7 VDC	OFDM	18.8	0.076	30	-11.20
F <sub>HIGH20</sub>	2462	3.7 VDC	OFDM	18.5	0.071	30	-11.50
F <sub>LOW20</sub>	2412	3.7 VDC	HT20	18.8	0.076	30	-11.20
F <sub>MID20</sub>	2437	3.7 VDC	HT20	19.4	0.087	30	-10.60
F <sub>HIGH20</sub>	2462	3.7 VDC	HT20	18.9	0.078	30	-11.10
F <sub>LOW40</sub>	2422	3.7 VDC	HT40	18.4	0.069	30	-11.60
F <sub>MID40</sub>	2437	3.7 VDC	HT40	18.6	0.072	30	-11.40
F <sub>HIGH40</sub>	2452	3.7 VDC	HT40	18.3	0.068	30	-11.70
Comments:							

### 3.4 Test Conditions and Results – Power spectral density

Power spectral density acc. to FCC 15.247 / IC RSS-247		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC 15.247(e) / IC RSS-247 5.2	
Test according to measurement reference	Reference Method	
	ANSI C63.10	
Test frequency range	Tested frequencies	
	$F_{\text{LOW}} / F_{\text{MID}} / F_{\text{HIGH}}$	
Measurement mode	Peak	
<b>Limits</b>		
8 dBm / 3 kHz		
<b>Test setup</b>		
		
<b>Test procedure</b>		
<ol style="list-style-type: none"> <li>1. EUT set to test mode (Communication tester is used if needed)</li> <li>2. Center frequency set to test channel center frequency</li> <li>3. Span is set large enough to capture maximum emissions in passband, RBW is set to 3kHz</li> <li>4. Peak power density is determined from peak emission of envelope</li> </ol>		

Test results						
Channel	Frequency [MHz]	Test mode	Peak frequency [MHz]	Peak power density [dBm/100kHz]	Limit [dBm/3kHz]	Margin [dB]
F <sub>LOW20</sub>	2412	DSSS	4.65	2413.08	8.0	-03.35
F <sub>MID20</sub>	2437	DSSS	4.82	2437.54	8.0	-03.18
F <sub>HIGH20</sub>	2462	DSSS	4.52	2460.56	8.0	-03.48
F <sub>LOW20</sub>	2412	OFDM	1.92	2413.26	8.0	-06.08
F <sub>MID20</sub>	2437	OFDM	3.56	2438.26	8.0	-04.44
F <sub>HIGH20</sub>	2462	OFDM	1.68	2463.26	8.0	-06.32
F <sub>LOW20</sub>	2412	HT20	1.98	2410.74	8.0	-06.02
F <sub>MID20</sub>	2437	HT20	3.74	2438.26	8.0	-04.26
F <sub>HIGH20</sub>	2462	HT20	2.06	2463.26	8.0	-05.94
F <sub>LOW40</sub>	2422	HT40	-2.63	2419.57	8.0	-10.63
F <sub>MID40</sub>	2437	HT40	-0.02	2434.57	8.0	-08.02
F <sub>HIGH40</sub>	2452	HT40	-0.01	2449.48	8.0	-08.01
Comments: Measurements were performed with RBW = 100 kHz						

### 3.5 Test Conditions and Results – AC power line conducted emissions

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

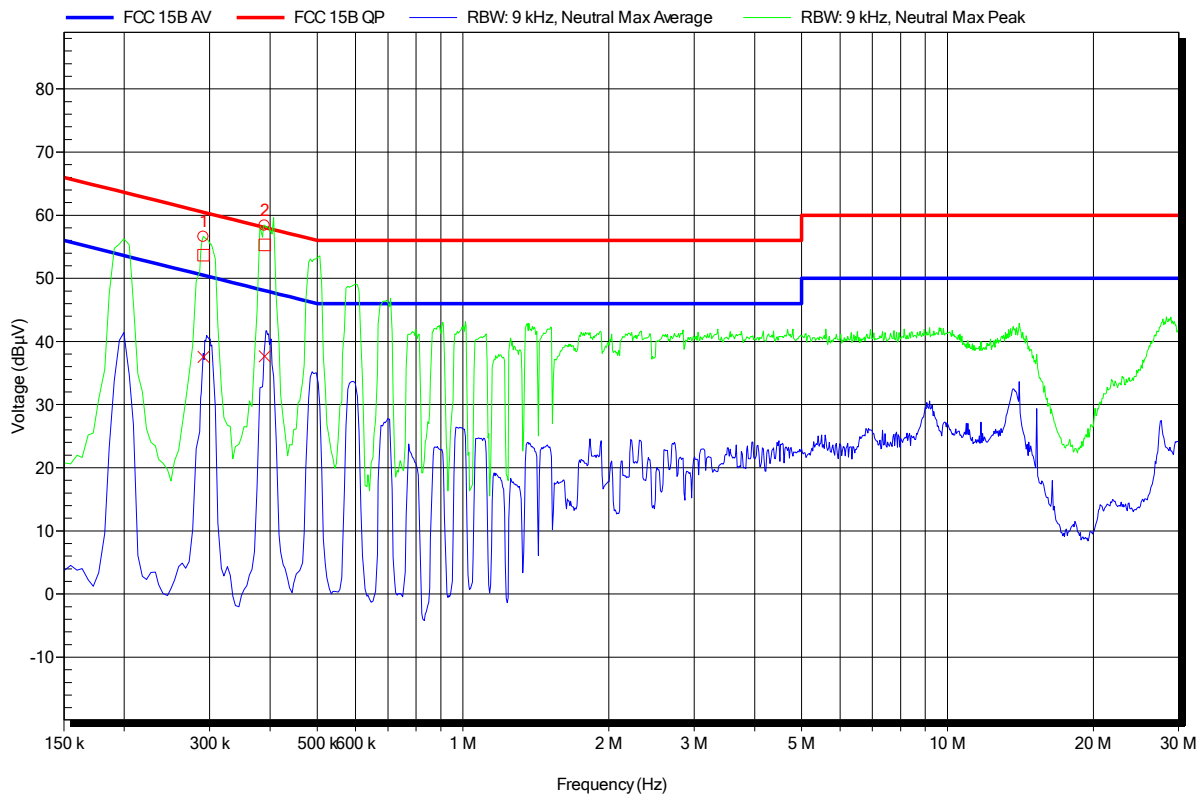
### Conducted Emissions

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

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Handrik  
 Test Conditions: Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)  
 LISN: ESH2-Z5 N  
 Mode: charging, Wlan (ping), HDMI-Monitor  
 Test Date: 2015-05-05  
 Note:

Index 1



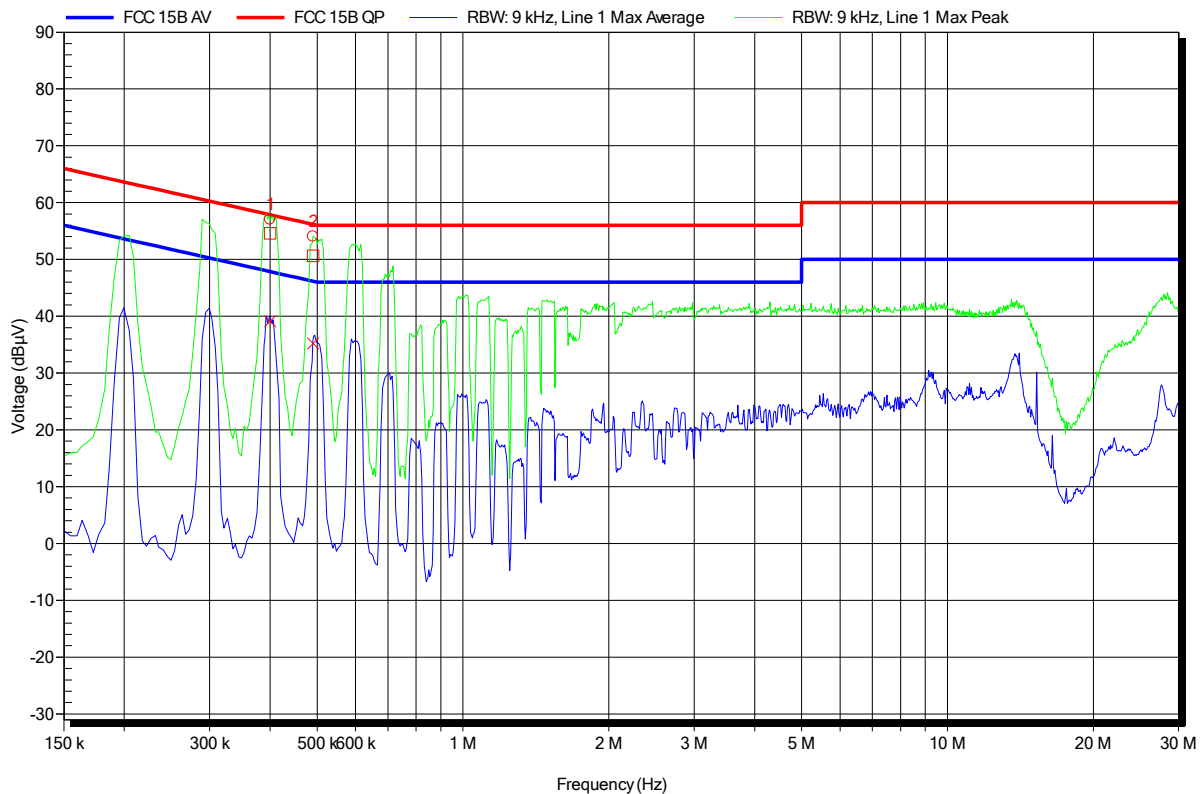
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
291.3 kHz	53.68 dBµV	60.49 dBµV	-6.81 dB	Pass
389.4 kHz	55.3 dBµV	58.08 dBµV	-2.78 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
291.3 kHz	37.56 dBµV	50.49 dBµV	-12.93 dB	Pass
389.4 kHz	37.64 dBµV	48.08 dBµV	-10.44 dB	Pass

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

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Handrik  
 Test Conditions: Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)  
 LISN: ESH2-Z5 L  
 Mode: charging, Wlan (ping), HDMI-Monitor  
 Test Date: 2015-05-05  
 Note:

Index 2



Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
399.75 kHz	54.58 dBµV	57.86 dBµV	-3.28 dB	Pass
490.65 kHz	50.62 dBµV	56.16 dBµV	-5.54 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
399.75 kHz	39.09 dBµV	47.86 dBµV	-8.77 dB	Pass
490.65 kHz	35.21 dBµV	46.16 dBµV	-10.95 dB	Pass

### 3.6 Test Conditions and Results – Band edge compliance

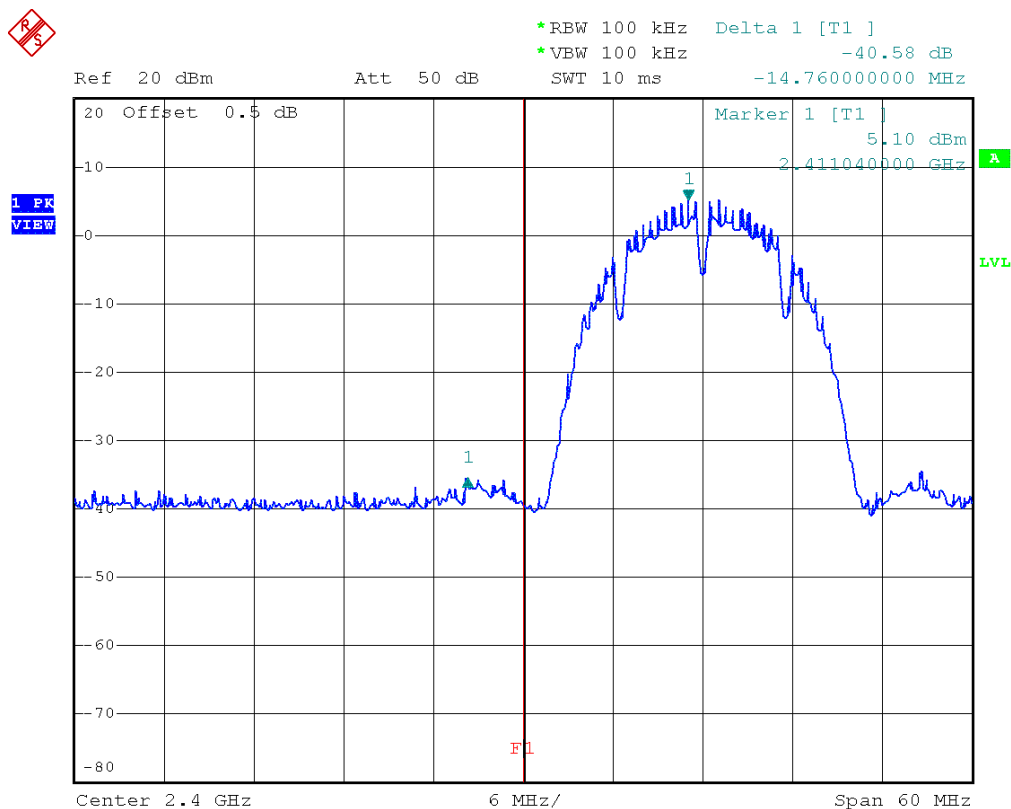
Band-edge compliance acc. to FCC 15.247 / IC RSS-247				Verdict: PASS	
EUT requirement rule parts and clause		Reference			
		FCC 15.247(d) / IC RSS-247 5.5			
Test according to measurement reference		Reference Method			
		ANSI C63.10			
Test frequency range		Tested frequencies			
		F <sub>LOW</sub> / F <sub>HIGH</sub>			
Measurement mode		Peak			
Limits					
Limit			Condition		
≤ -20 dB / 100 kHz			Peak power measurement detector = Peak		
≤ -30 dB / 100 kHz			Peak power measurement detector = RMS		
Test setup					
<div><div>Spectrum Analyzer</div><div>EUT</div></div>					
Test procedure					
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference					
Test results					
Channel	Frequency [MHz]	Mode	Level [dBc]	Limit [dBc]	Margin [dB]
F <sub>LOW20</sub>	2412	DSSS	-40.58	-20	-20.58
F <sub>HIGH20</sub>	2462	DSSS	-42.24	-20	-22.24
F <sub>LOW20</sub>	2412	OFDM	-28.68	-20	-08.68
F <sub>HIGH20</sub>	2462	OFDM	-38.35	-20	-18.35
F <sub>LOW20</sub>	2412	HT20	-28.70	-20	-08.70
F <sub>HIGH20</sub>	2462	HT20	-39.52	-20	-19.52
F <sub>LOW40</sub>	2422	HT40	-31.95	-20	-11.95
F <sub>HIGH40</sub>	2452	HT40	-30.58	-20	-10.58
Comments:					

Band-edge compliance – DSSS F<sub>LOW</sub>

## Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11b, 1Mbps, 2412 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: lower Band-edge, conducted measurement



Comment: Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 1.JAN.2000 04:58:13

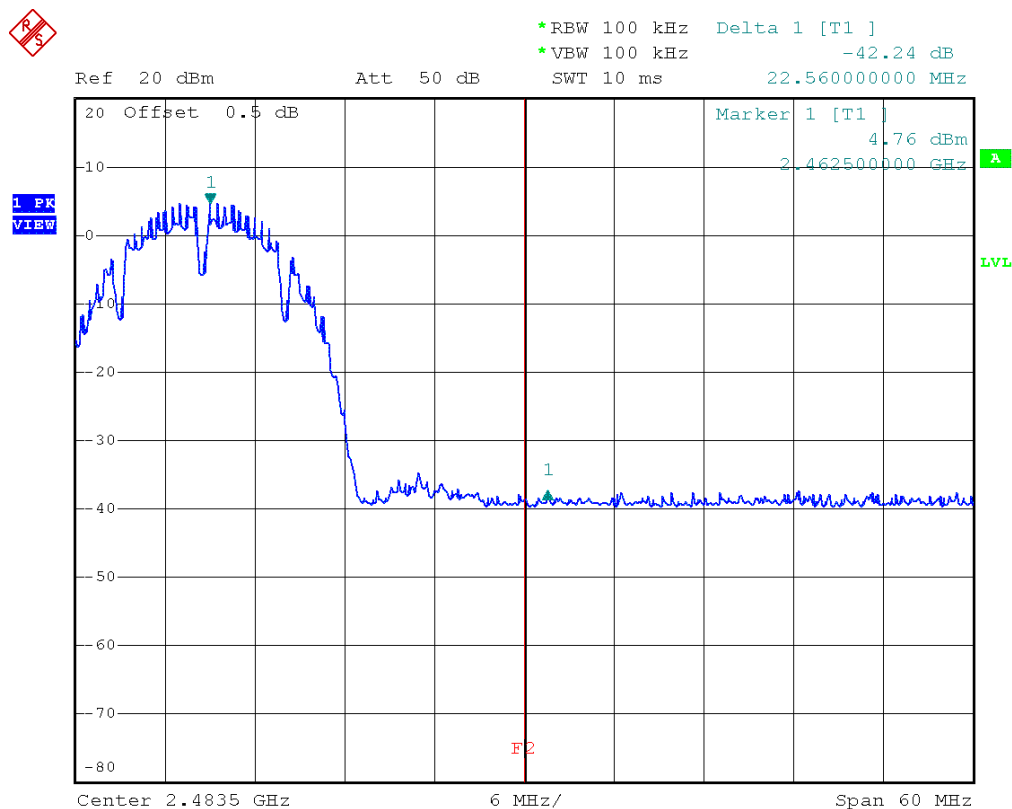


### Band-edge compliance – DSSS $F_{HIGH}$

**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Wilfried Treffke
Test Conditions:	Tnom / Vnom
Mode:	Tx, IEEE 802.11b, 1Mbps, 2462 MHz, modulated
Test Date:	2015-04-24
Verdict:	PASS
Note 1:	upper Band-edge, conducted measurement



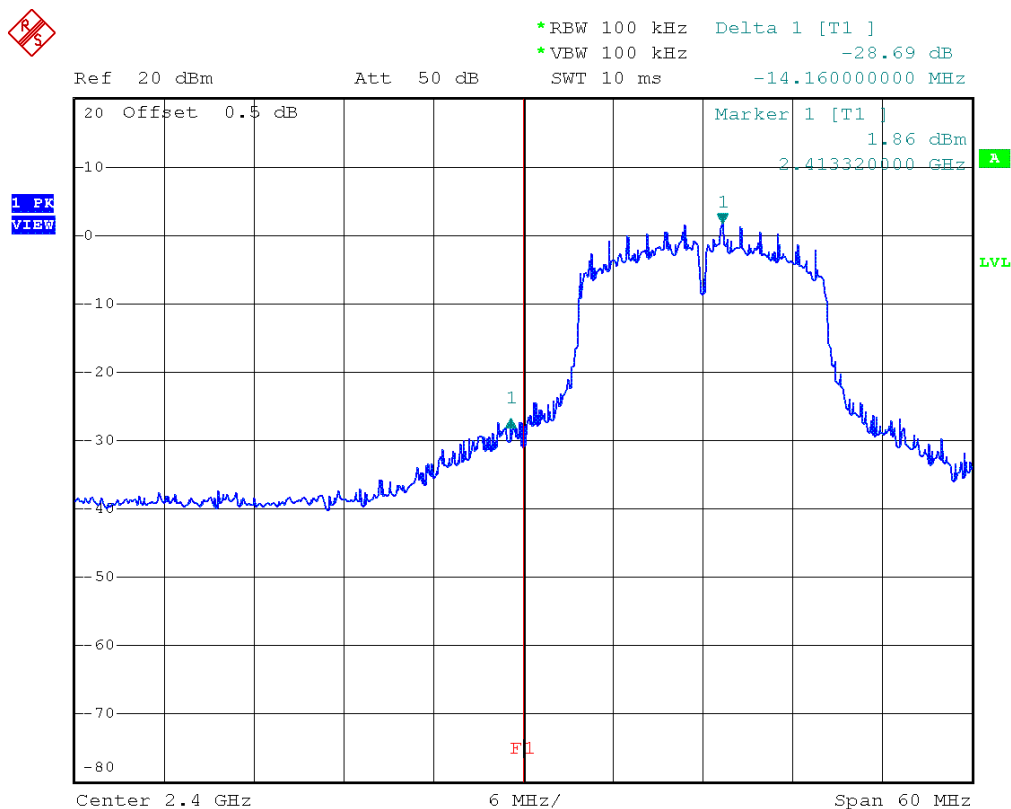
Comment: Limit: Marker Delta value >20 dB; Result: PASS  
Date: 1.JAN.2000 05:00:41

Band-edge compliance – OFDM F<sub>LOW</sub>

## Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11g, 6Mbps, 2412 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: lower Band-edge, conducted measurement



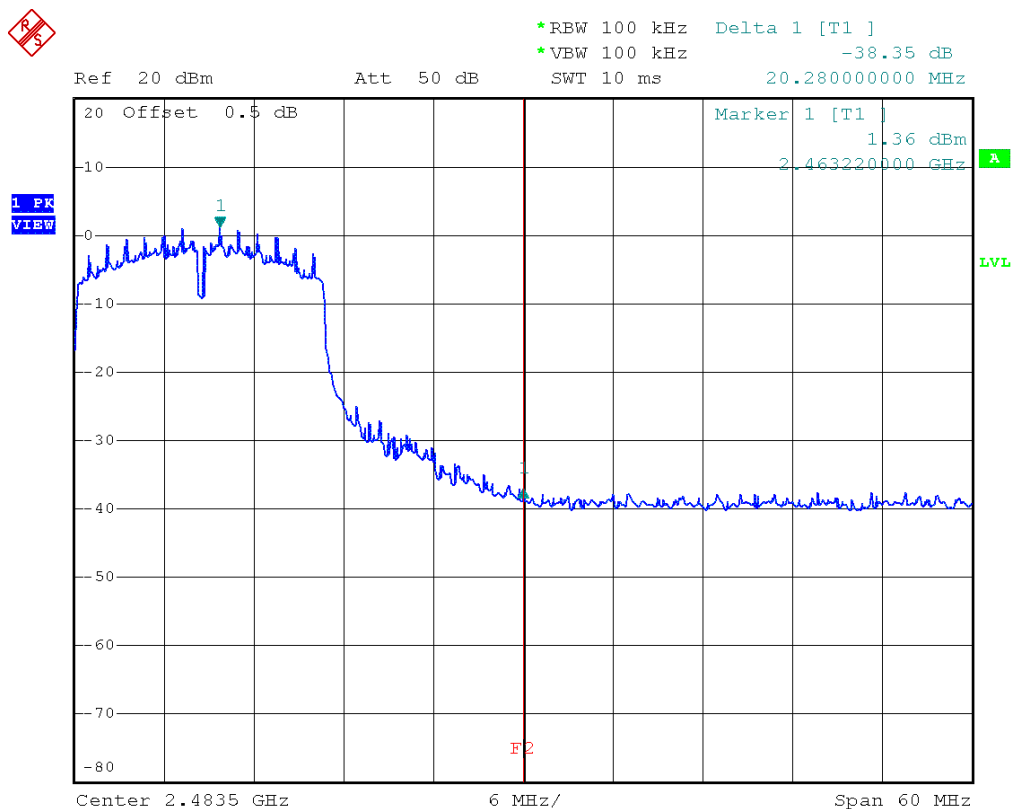
Comment: Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 1.JAN.2000 05:02:42

# Band-edge compliance – OFDM F<sub>HIGH</sub>

## Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11g, 6Mbps, 2462 MHz, modulated  
Test Date: 2015-04-24  
Verdict: PASS  
Note 1: upper Band-edge, conducted measurement



Comment: Limit: Marker Delta value >20 dB; Result: PASS  
Date: 1.JAN.2000 05:04:26

Test Report No.: G0M-1503-4620-TFC247WF-V01

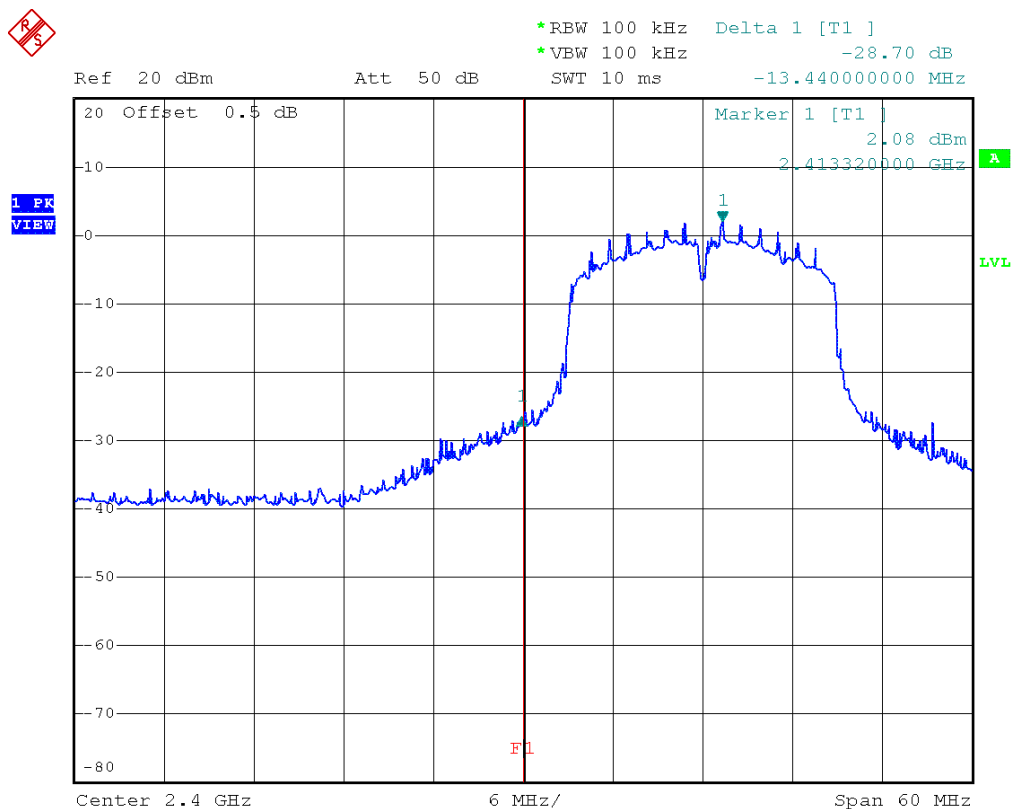
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – HT20 F<sub>Low</sub>

## Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11n, HT20, 2412 MHz, modulated  
Test Date: 2015-04-24  
Verdict: PASS  
Note 1: lower Band-edge, conducted measurement



Comment: Limit: Marker Delta value >20 dB; Result: PASS  
Date: 1.JAN.2000 05:07:20

Test Report No.: G0M-1503-4620-TFC247WF-V01

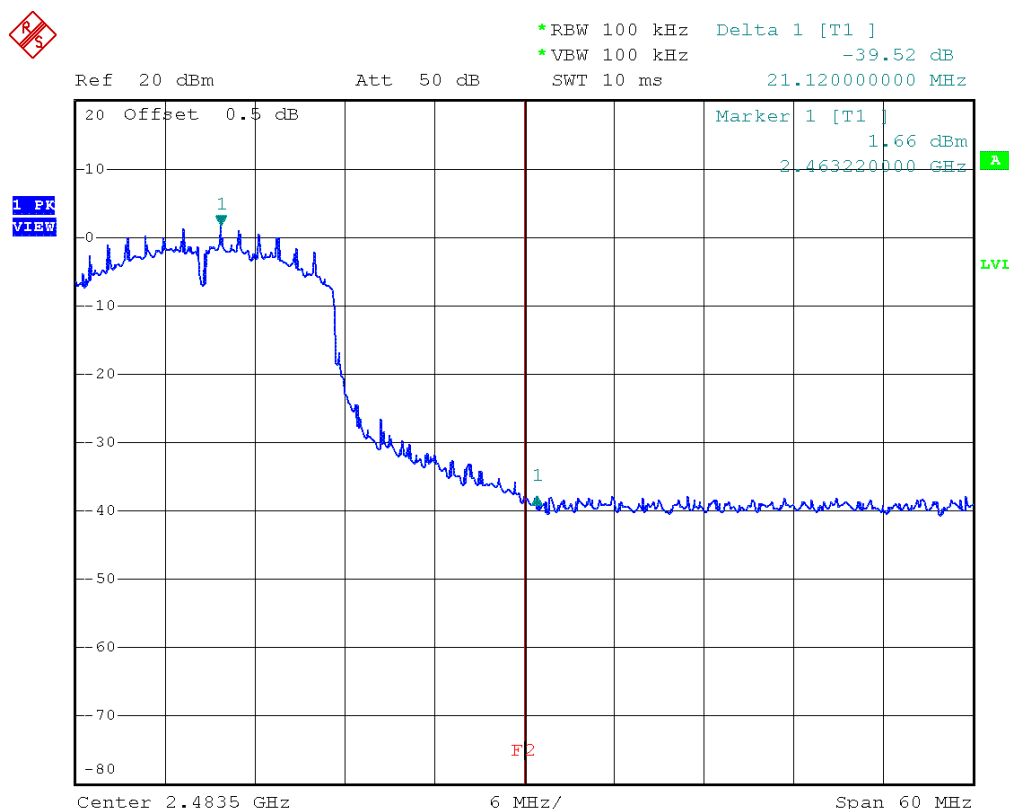
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – HT20 F<sub>HIGH</sub>

## Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11n, HT20, 2462 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: upper Band-edge, conducted measurement



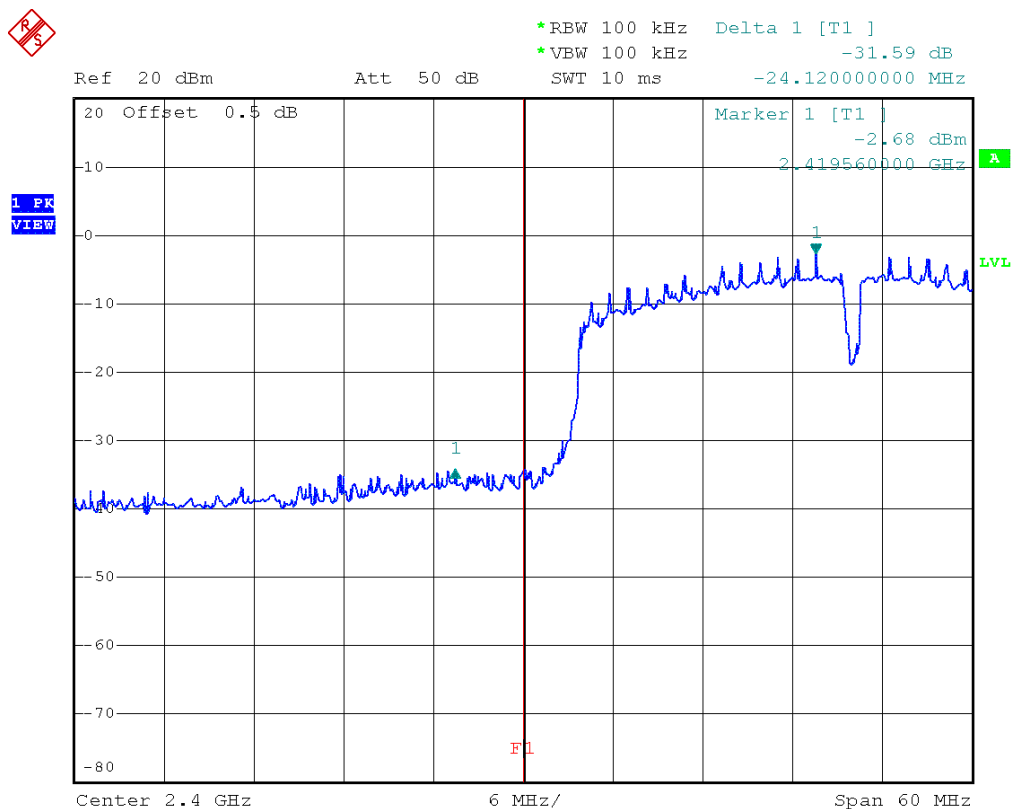
Comment: Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 1.JAN.2000 05:08:53

Band-edge compliance – HT40 F<sub>Low</sub>

## Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Wilfried Treffke  
Test Conditions: Tnom / Vnom  
Mode: Tx, IEEE 802.11n, HT40, 2422 MHz, modulated  
Test Date: 2015-04-24  
Verdict: PASS  
Note 1: lower Band-edge, conducted measurement



Comment: Limit: Marker Delta value >20 dB; Result: PASS  
Date: 1.JAN.2000 05:10:28

Test Report No.: G0M-1503-4620-TFC247WF-V01

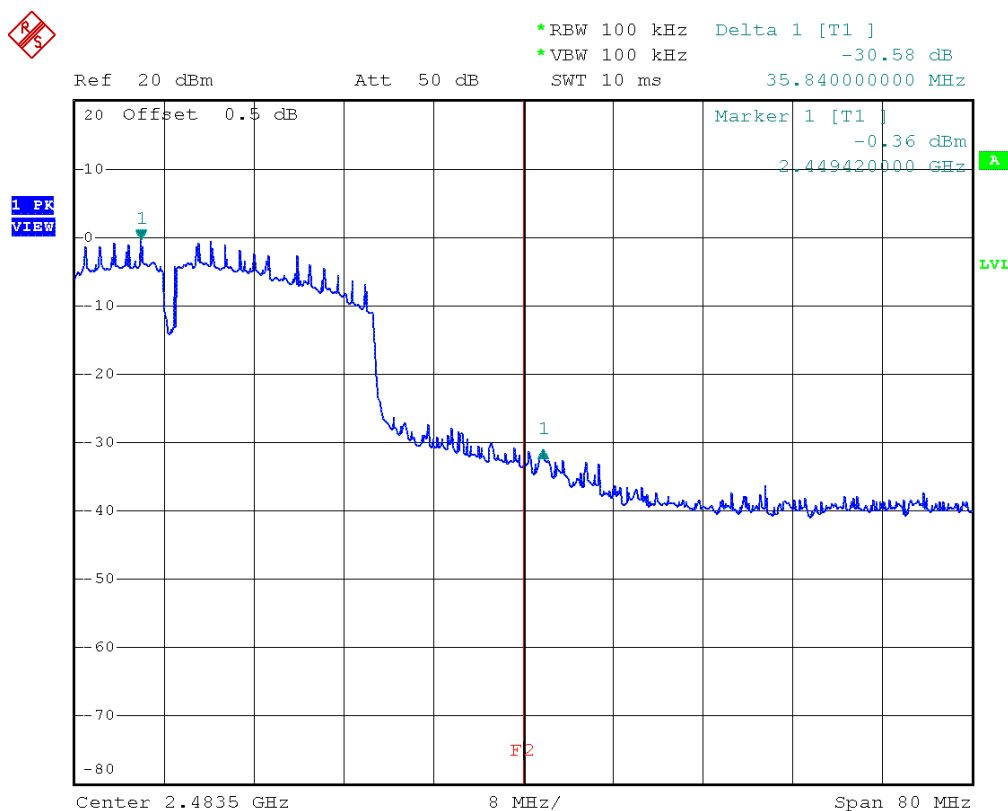
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Band-edge compliance – HT40 F<sub>HIGH</sub>**

**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11n, HT40, 2452 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: upper Band-edge, conducted measurement



Comment: Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 1.JAN.2000 05:14:48

### 3.7 Test Conditions and Results – Conducted spurious emissions

Conducted spurious emissions acc. to FCC 15.247 / IC RSS-247		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC 15.247(d) / IC RSS-247 5.5	
Test according to measurement reference	Reference Method	
	ANSI C63.10	
Test frequency range	Tested frequencies	
	10 MHz – 10 <sup>th</sup> Harmonic	
Measurement mode	Peak	
Limits		
Limit	Condition	
≤ -20 dB / 100 kHz	Peak power measurement detector = Peak	
≤ -30 dB /100 kHz	Peak power measurement detector = RMS	
Test setup		
<div><div>Spectrum Analyzer</div><div>EUT</div></div>		
Test procedure		
<div>1. EUT set to test mode (Communication tester is used if needed)</div> <div>2. Span it set according to measurement range</div> <div>3. Resolution bandwidth is set to 100 kHz and detector to peak and max hold</div> <div>4. Markers are set to peak emission levels within frequency band</div> <div>5. Emission level is determined by second marker on emission peak</div> <div>6. Attenuation is determined from level difference</div>		



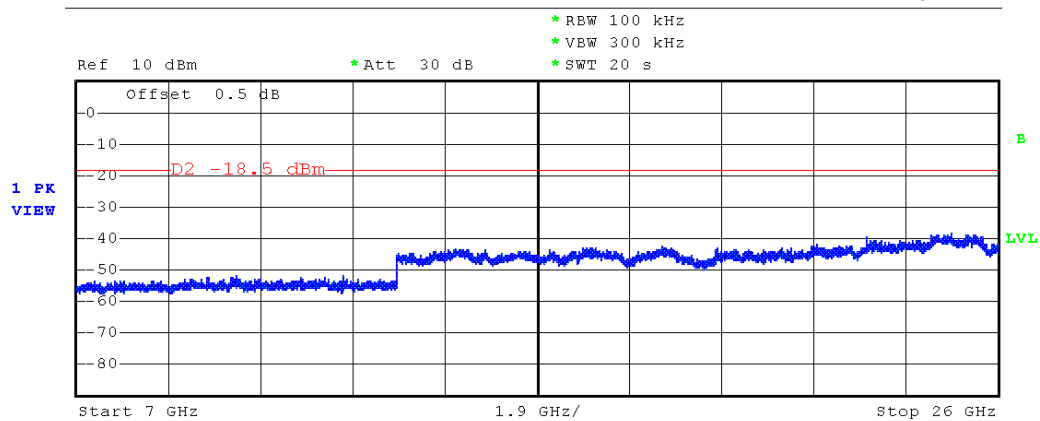
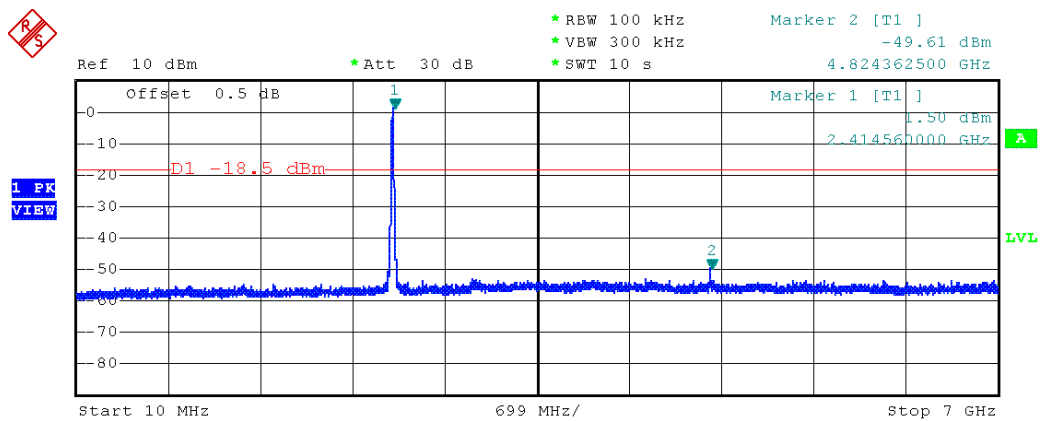
Test results							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Emission Level [dbm]	Peak power [dBm]	Limit [dBm]	Margin [dB]
F <sub>LOW20</sub>	2412	DSSS	4824.36	-49.61	1.5	-18.5	-31.11
F <sub>MID20</sub>	2437	DSSS	4874.17	-44.68	2.8	-17.2	-27.48
F <sub>HIGH20</sub>	2462	DSSS	4923.97	-43.18	3.7	-16.3	-26.88
F <sub>LOW20</sub>	2412	OFDM	4824.36	-49.3	1.3	-18.7	-30.60
F <sub>MID20</sub>	2437	OFDM	4874.17	-50.51	1.5	-18.5	-32.01
F <sub>HIGH20</sub>	2462	OFDM	4923.97	-49.89	0.6	-19.4	-30.49
F <sub>LOW20</sub>	2412	HT20	4824.36	-50.72	1.7	-18.3	-32.42
F <sub>MID20</sub>	2437	HT20	4874.17	-50.34	3.4	-16.6	-33.74
F <sub>HIGH20</sub>	2462	HT20	4923.97	-50.34	1.8	-18.2	-32.14
F <sub>LOW40</sub>	2422	HT40	4844.46	-48.47	-2.9	-22.9	-25.57
F <sub>MID40</sub>	2437	HT40	4894.26	-48.93	-0.8	-20.8	-28.13
F <sub>HIGH40</sub>	2452	HT40	4903.87	-49.55	-0.1	-20.1	-29.45
Comments:							

Conducted spurious emissions – DSSS F<sub>LOW</sub>

## Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11b, 1Mbps, 2412 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: conducted measurement



Date: 1.JAN.2000 05:41:12

Test Report No.: G0M-1503-4620-TFC247WF-V01

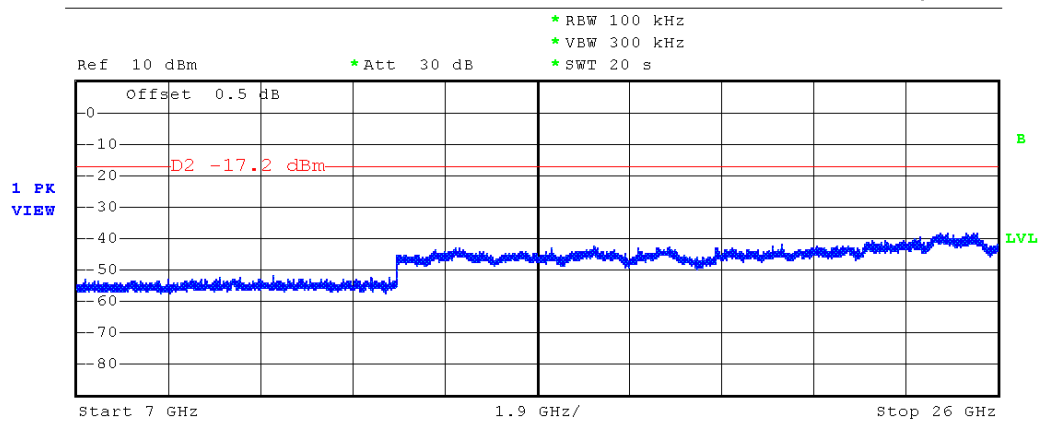
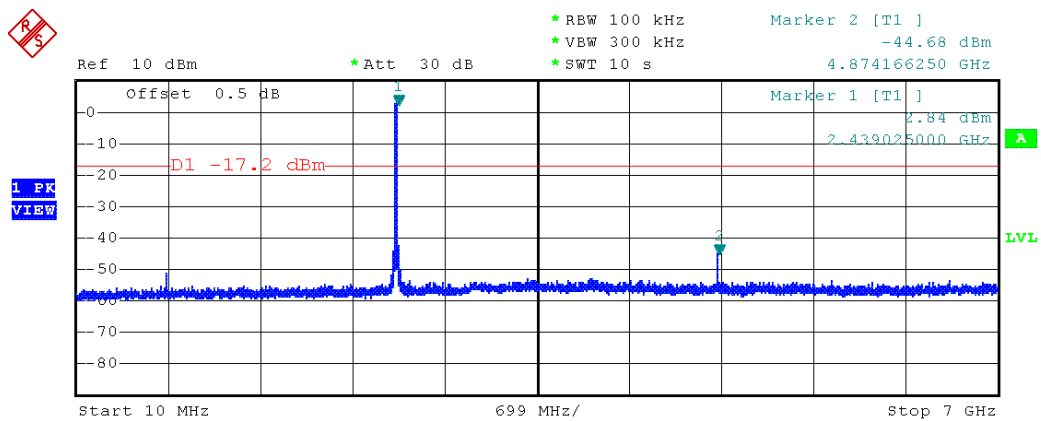
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted spurious emissions – DSSS F<sub>MID</sub>

## Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11b, 1Mbps, 2437 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: conducted measurement



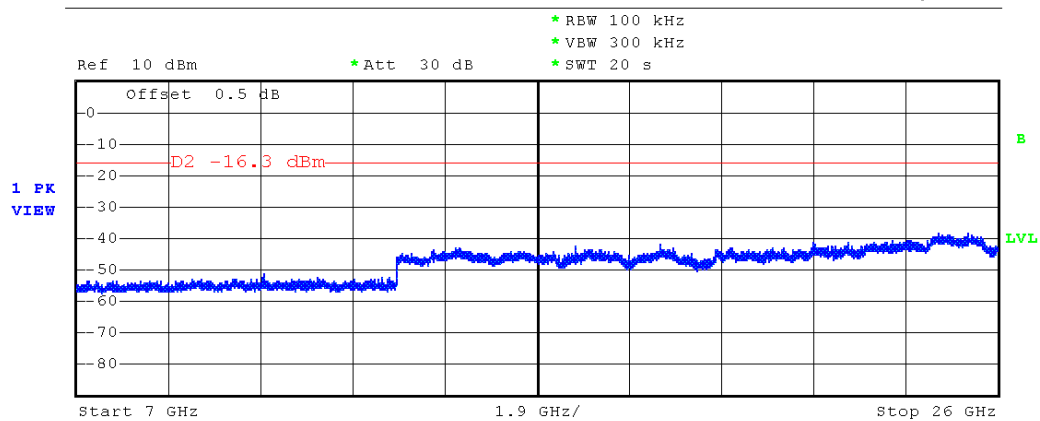
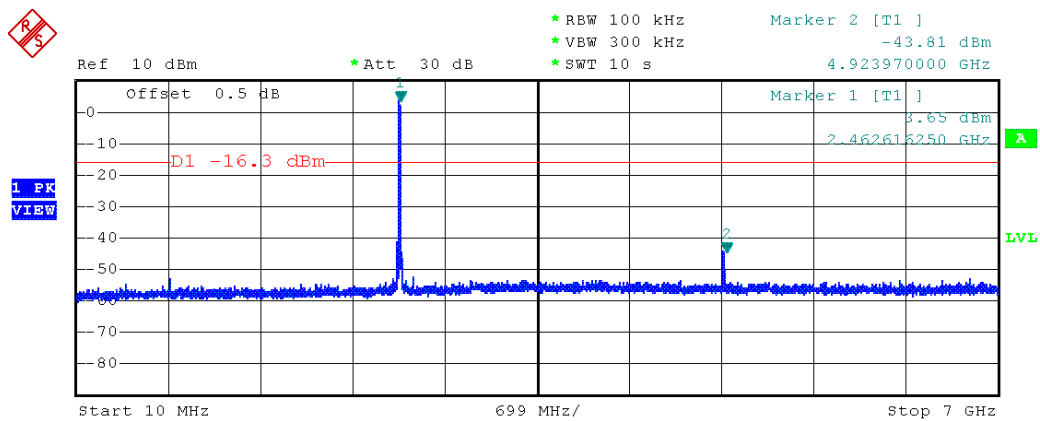
Date: 1.JAN.2000 05:47:16

Conducted spurious emissions – DSSS F<sub>HIGH</sub>

## Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11b, 1Mbps, 2462 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: conducted measurement



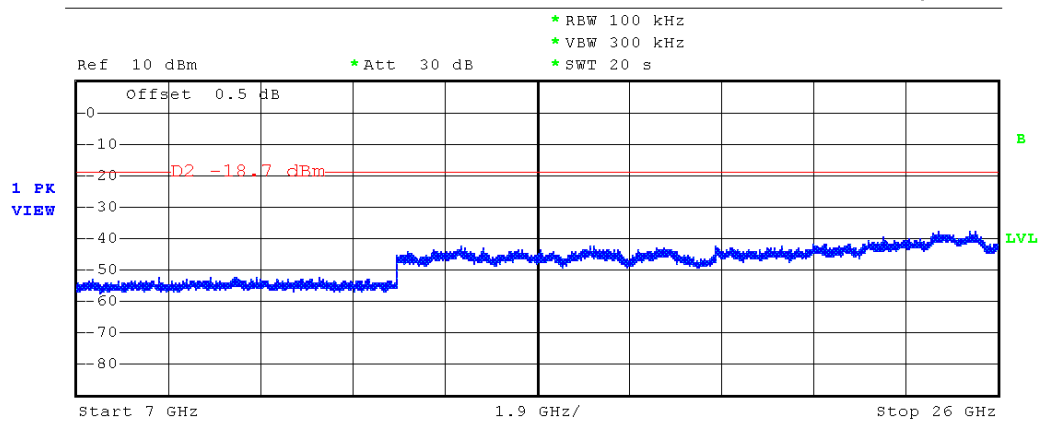
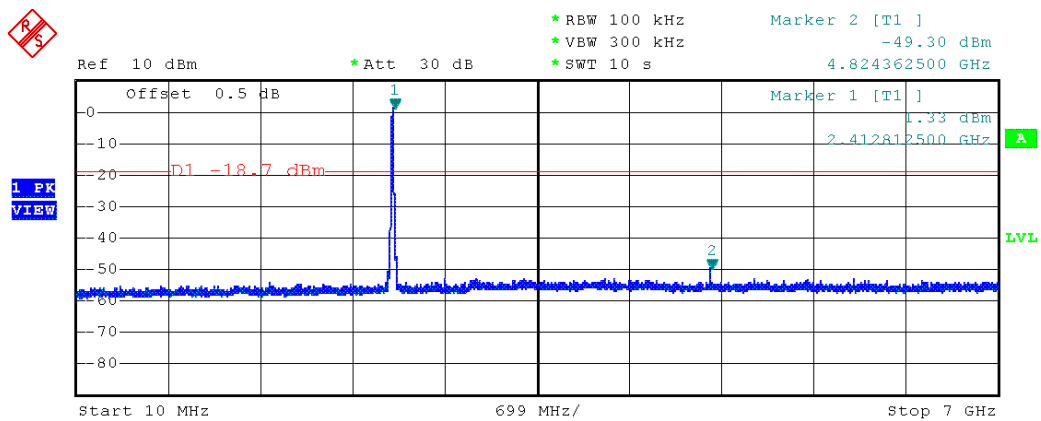
Date: 1.JAN.2000 05:52:06

Conducted spurious emissions – OFDM F<sub>Low</sub>

## Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11g, 6Mbps, 2412 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: conducted measurement



Date: 1.JAN.2000 05:59:54

Test Report No.: G0M-1503-4620-TFC247WF-V01

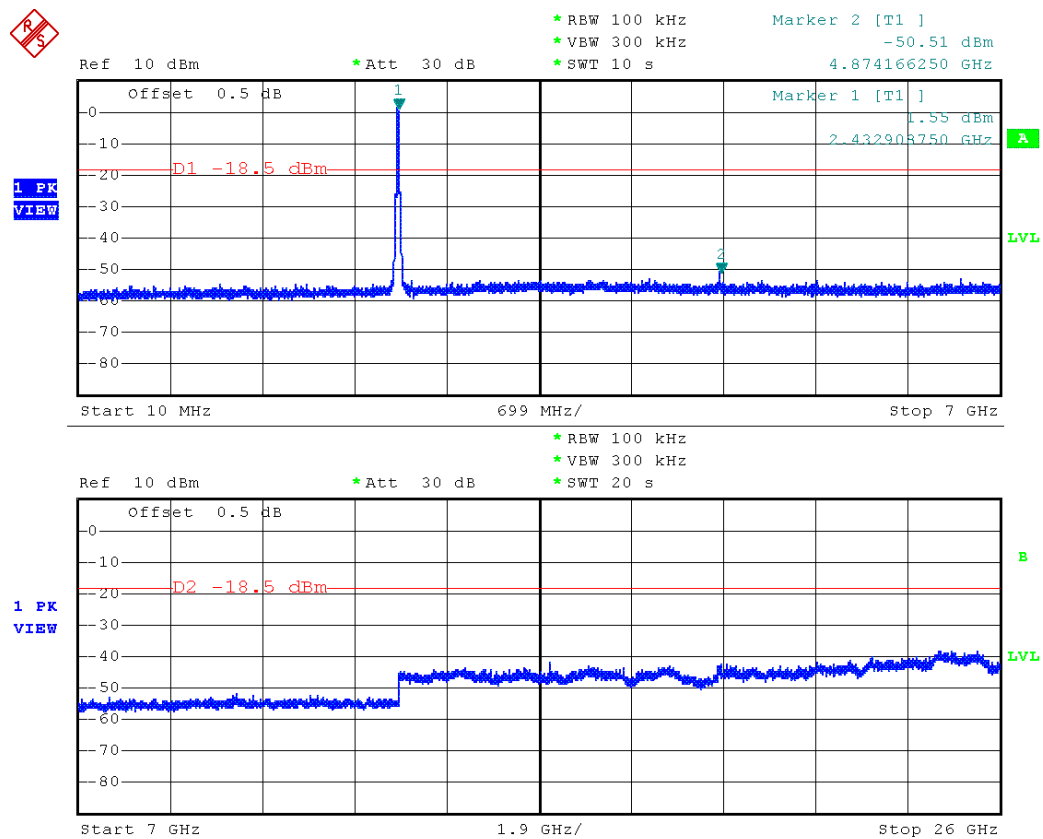
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

### Conducted spurious emissions – OFDM $F_{MID}$

### Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Wilfried Treffke
Test Conditions:	Tnom / Vnom
Mode:	Tx, IEEE 802.11g, 6Mbps, 2437 MHz, modulated
Test Date:	2015-04-24
Verdict:	PASS
Note 1:	conducted measurement



Date: 1.JAN.2000 06:02:51

Test Report No.: G0M-1503-4620-TFC247WF-V01

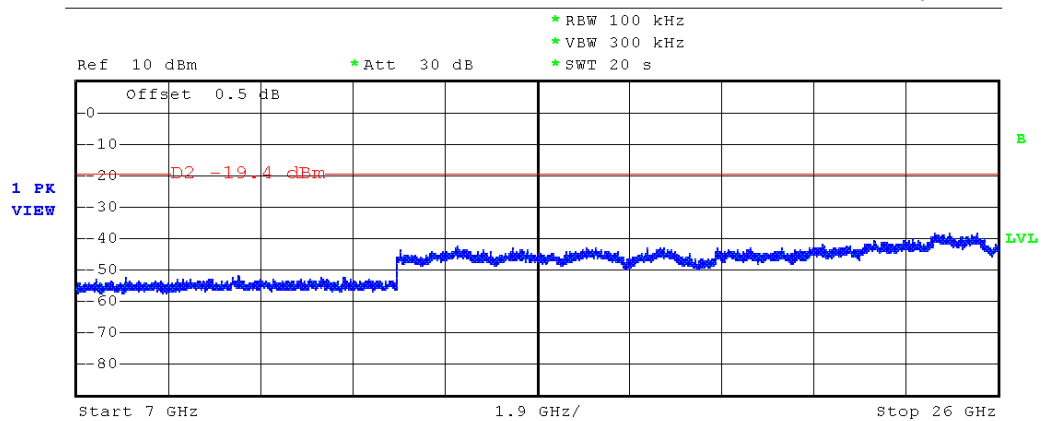
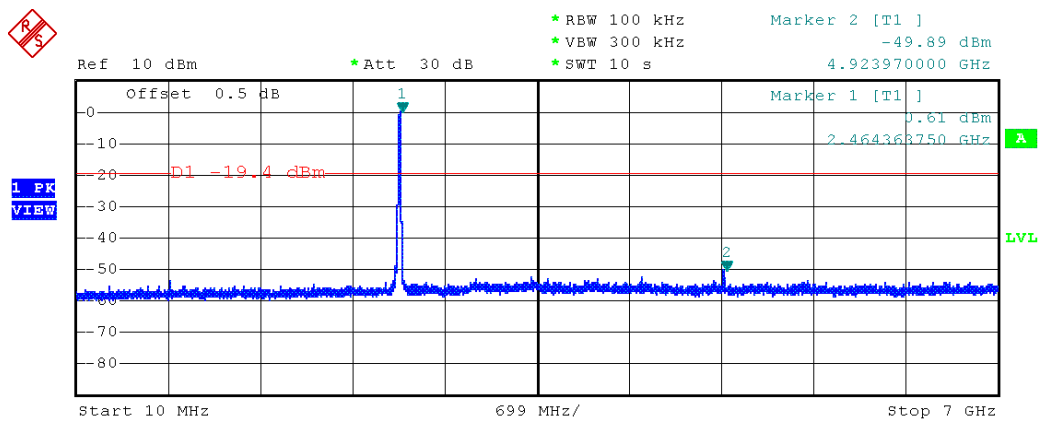
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted spurious emissions – OFDM F<sub>HIGH</sub>

## Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11g, 6Mbps, 2462 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: conducted measurement



Date: 1.JAN.2000 06:05:33

Test Report No.: G0M-1503-4620-TFC247WF-V01

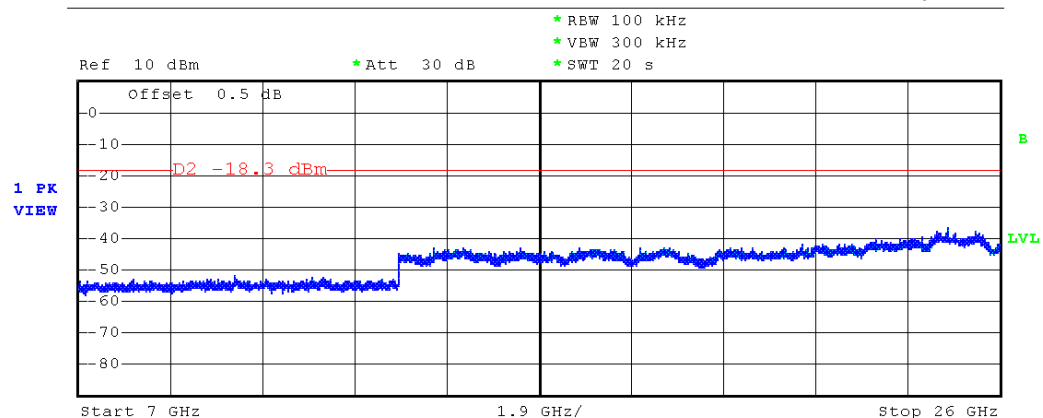
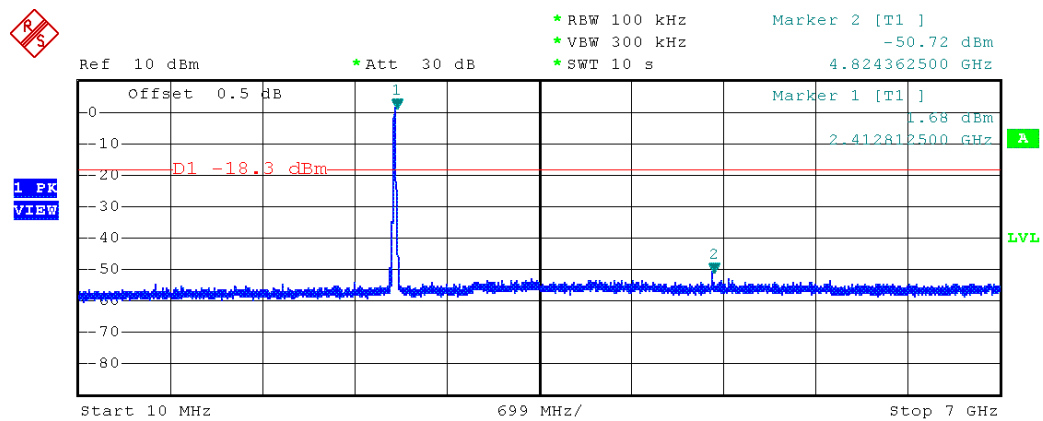
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

### Conducted spurious emissions – HT20 F<sub>LOW</sub>

### Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Wilfried Treffke
Test Conditions:	Tnom / Vnom
Mode:	Tx, IEEE 802.11n, HT20, 2412 MHz, modulated
Test Date:	2015-04-24
Verdict:	PASS
Note 1:	conducted measurement



Date: 1.JAN.2000 06:12:19

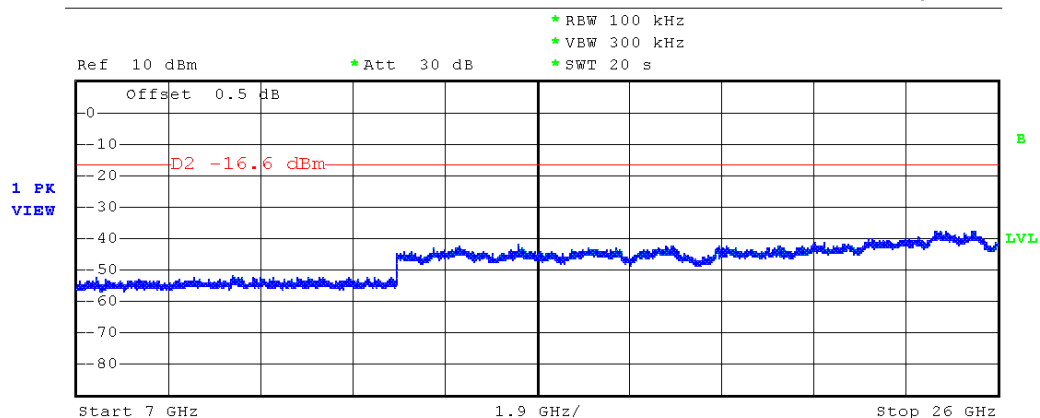
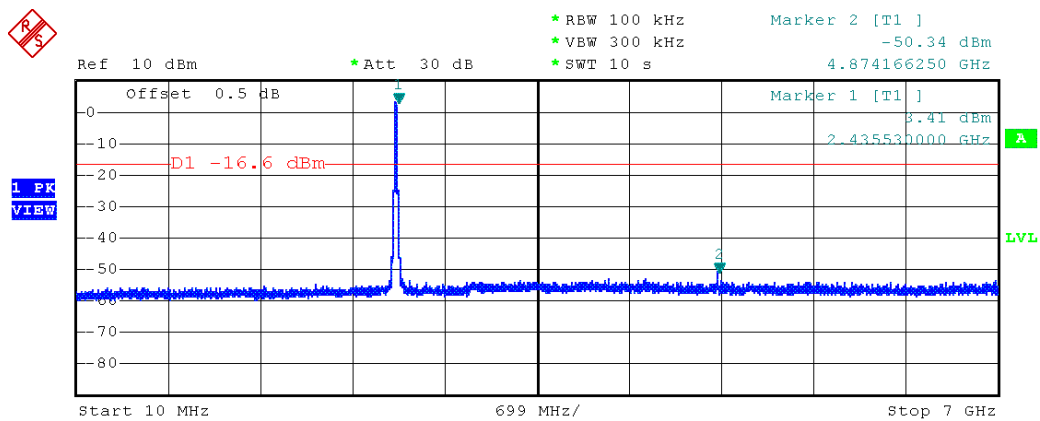


### Conducted spurious emissions – HT20 F<sub>MID</sub>

### Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Wilfried Treffke
Test Conditions:	Tnom / Vnom
Mode:	Tx, IEEE 802.11n, HT20, 2437 MHz, modulated
Test Date:	2015-04-24
Verdict:	PASS
Note 1:	conducted measurement



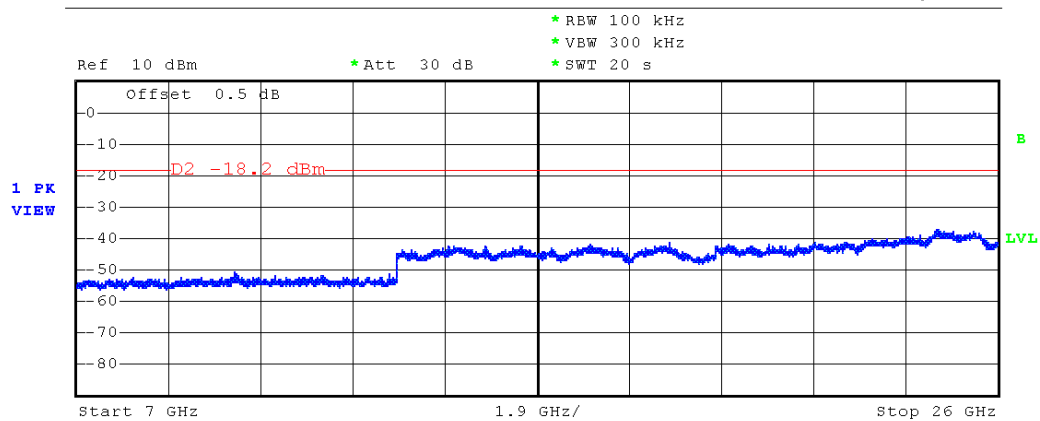
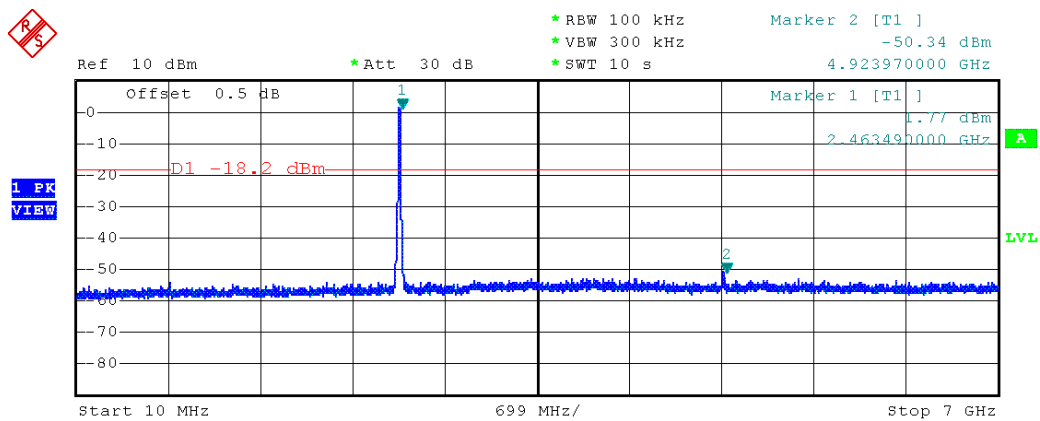
Date: 1.JAN.2000 06:16:21

Conducted spurious emissions – HT20 F<sub>HIGH</sub>

## Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11n, HT20, 2462 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: conducted measurement



Date: 1.JAN.2000 06:25:35

Test Report No.: G0M-1503-4620-TFC247WF-V01

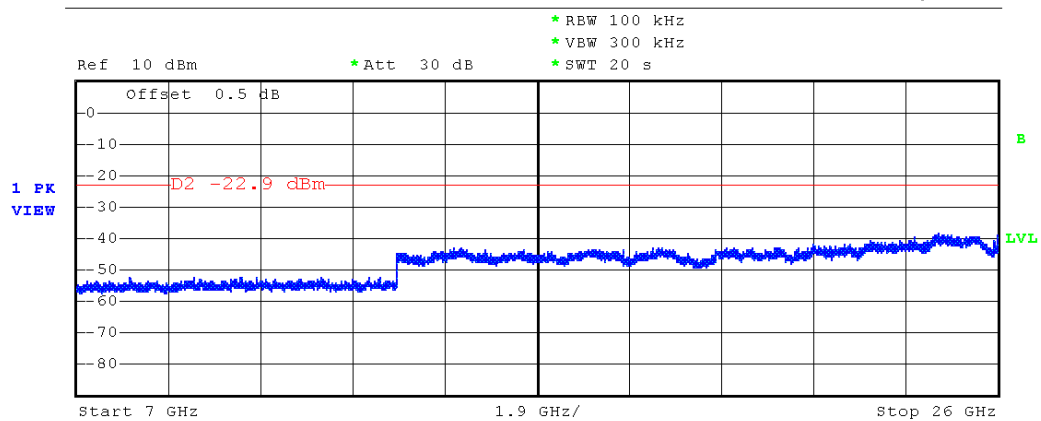
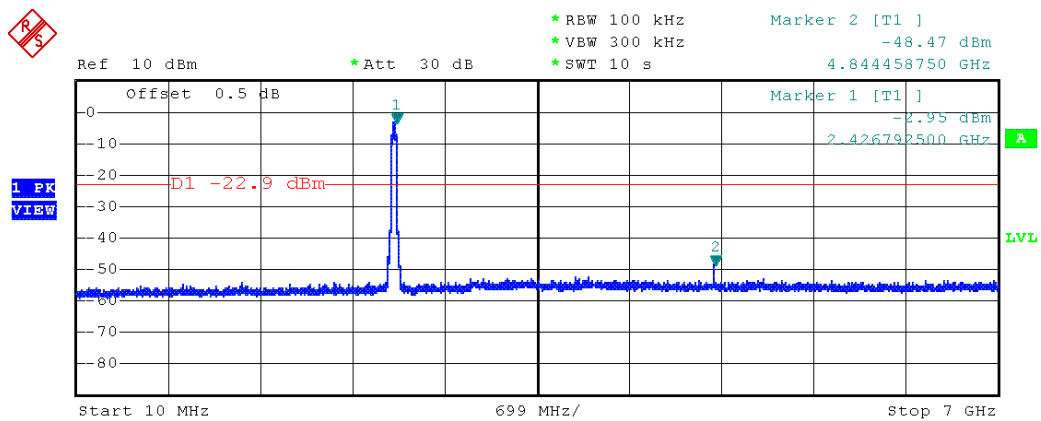
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted spurious emissions – HT40 F<sub>LOW</sub>

## Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11n, HT40, 2422 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: conducted measurement



Date: 1.JAN.2000 06:31:48

Test Report No.: G0M-1503-4620-TFC247WF-V01

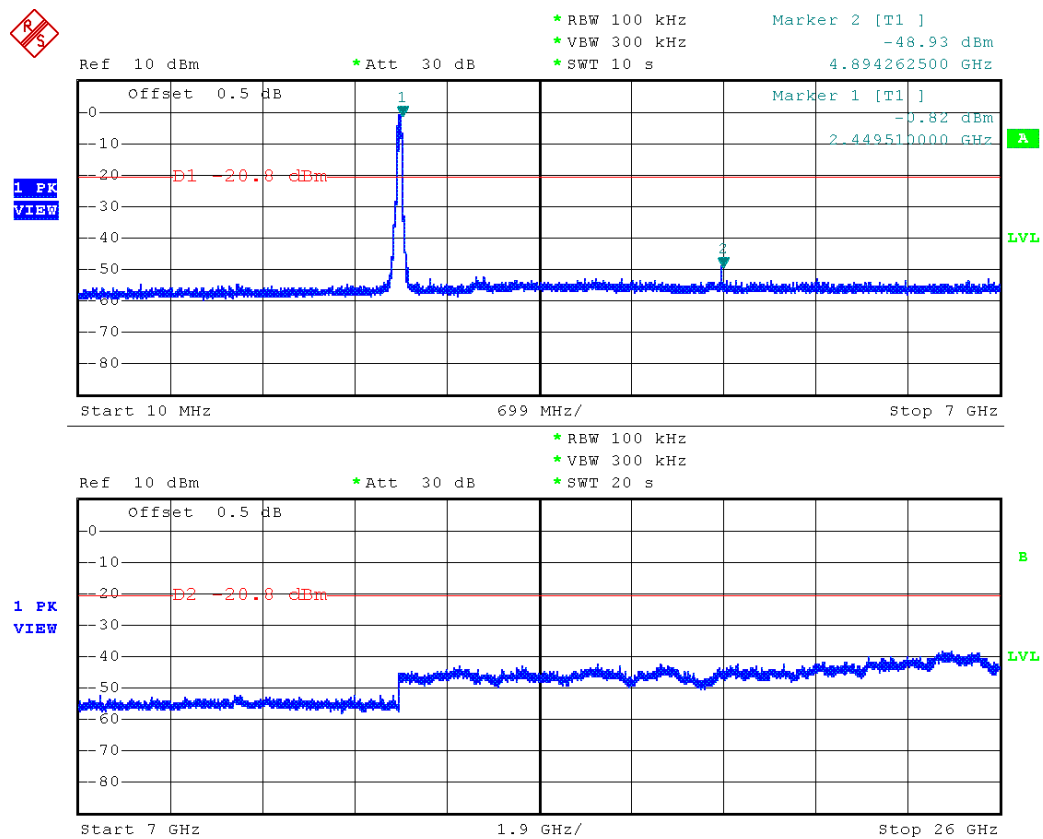
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

### Conducted spurious emissions – HT40 F<sub>MID</sub>

**Spurious Emissions acc. to FCC 15.247**

Project Number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Wilfried Treffke
Test Conditions:	Tnom / Vnom
Mode:	Tx, IEEE 802.11n, HT40, 2437 MHz, modulated
Test Date:	2015-04-24
Verdict:	PASS
Note 1:	conducted measurement



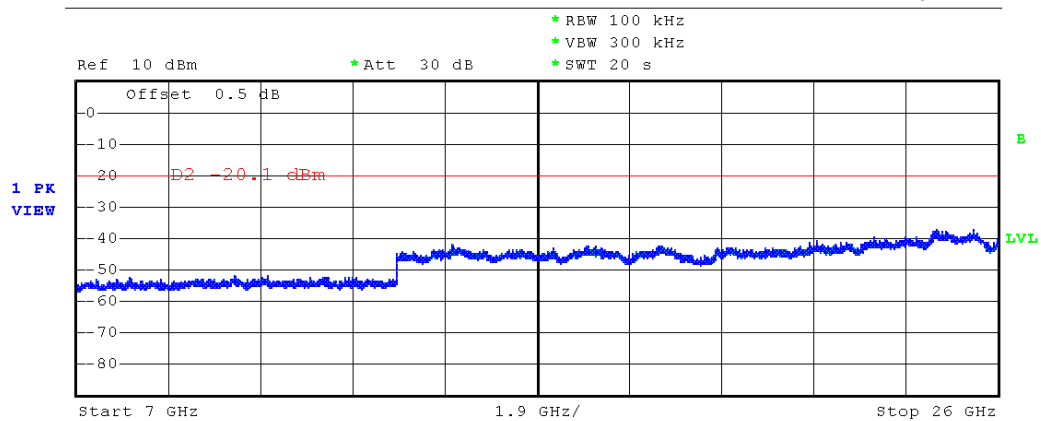
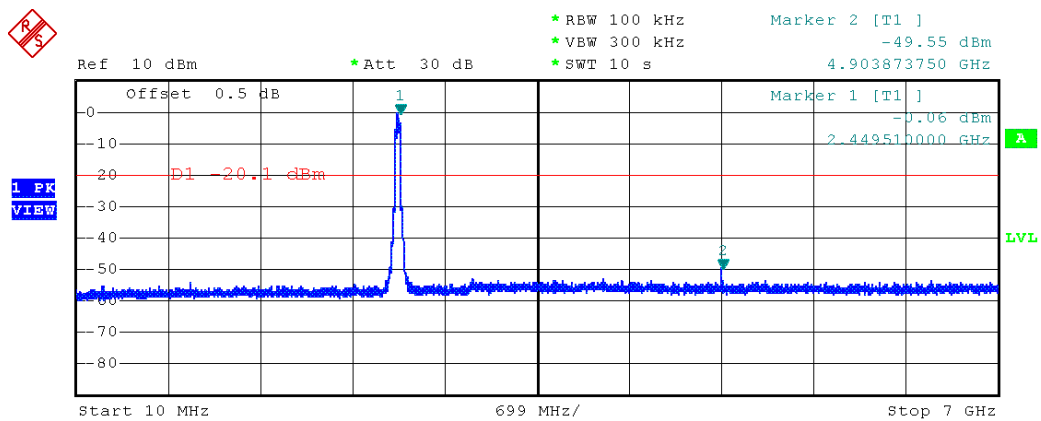
Date: 1.JAN.2000 06:36:15

Conducted spurious emissions – HT40 F<sub>HIGH</sub>

## Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Wilfried Treffke  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, IEEE 802.11n, HT40, 2452 MHz, modulated  
 Test Date: 2015-04-24  
 Verdict: PASS  
 Note 1: conducted measurement

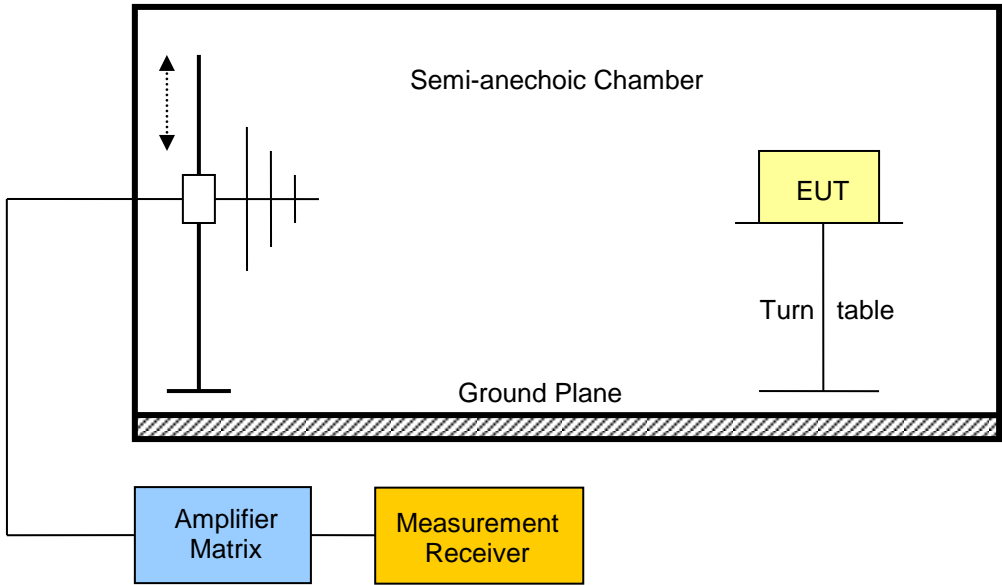


Date: 1.JAN.2000 06:41:03

Test Report No.: G0M-1503-4620-TFC247WF-V01

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

### 3.8 Test Conditions and Results – Transmitter radiated emissions

Transmitter radiated emissions acc. to FCC 47 CFR 15.247 / IC RSS-247				Verdict: PASS	
Test according referenced standards	Reference Method				
	FCC 15.247(d) / IC RSS-247 5.5				
Test according to measurement reference	Reference Method				
	ANSI C63.10				
Test frequency range	Tested frequencies				
	30 MHz – 10 <sup>th</sup> Harmonic				
Limits					
Frequency range [MHz]	Detector	Limit [µV/m]	Limit [dBµV/m]	Limit Distance [m]	
30 – 88	Quasi-Peak	100	40	3	
88 – 216	Quasi-Peak	150	43.5	3	
216 – 960	Quasi-Peak	200	46	3	
960 – 1000	Quasi-Peak	500	54	3	
> 1000	Average	500	54	3	
<p>Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).</p> <p>When average radiated emission measurements are specified, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.</p>					
Test setup					
					

### Test procedure

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

### Test results DSSS

Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Limit dist. [m]*	Margin [dB]
F <sub>LOW</sub>	2412	DSSS	240.208	23.86	pk	hor	46.00	3	-22.14
F <sub>LOW</sub>	2412	DSSS	2387	52.39	pk	hor	74.00	3	-21.61
F <sub>LOW</sub>	2412	DSSS	2387	42.51	RMS	hor	54.00	3	-11.49
F <sub>LOW</sub>	2412	DSSS	2387	58.77	pk	ver	74.00	3	-15.23
F <sub>LOW</sub>	2412	DSSS	2387	47.48	RMS	ver	54.00	3	-06.52
F <sub>LOW</sub>	2412	DSSS	4824	47.87	pk	hor	74.00	1	-26.13
F <sub>LOW</sub>	2412	DSSS	4824	46.11	avg	hor	54.00	1	-07.89
F <sub>LOW</sub>	2412	DSSS	4824	48.64	pk	ver	74.00	1	-25.36
F <sub>LOW</sub>	2412	DSSS	4824	47.06	avg	ver	54.00	1	-06.94
F <sub>MID</sub>	2437	DSSS	4874	50.47	pk	hor	74.00	1	-23.53
F <sub>MID</sub>	2437	DSSS	4874	48.99	avg	hor	54.00	1	-05.01
F <sub>MID</sub>	2437	DSSS	4874	51.15	pk	ver	74.00	1	-22.85
F <sub>MID</sub>	2437	DSSS	4874	49.73	avg	ver	54.00	1	-04.27
F <sub>HIGH</sub>	2462	DSSS	4924	53.78	pk	hor	74.00	1	-20.22
F <sub>HIGH</sub>	2462	DSSS	4924	52.46	avg	hor	54.00	1	-01.54
F <sub>HIGH</sub>	2462	DSSS	4924	53.61	pk	ver	74.00	1	-20.39
F <sub>HIGH</sub>	2462	DSSS	4924	52.48	avg	ver	54.00	1	-01.52

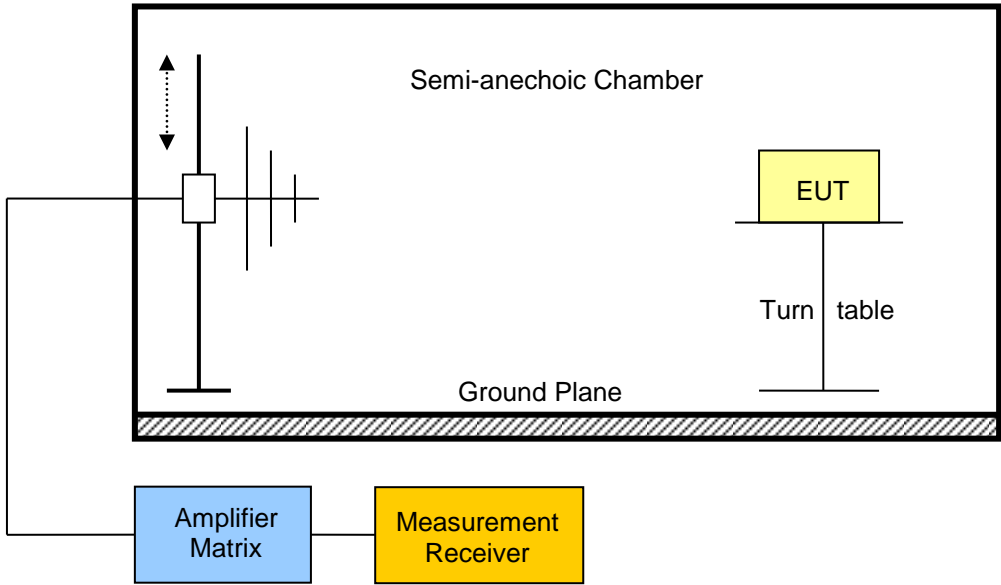
Comments: \* Physical distance between EUT and measurement antenna.

Test results HT20									
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Limit dist. [m]*	Margin [dB]
F <sub>LOW</sub>	2412	HT20	2390	69.75	pk	hor	74.00	3	-04.25
F <sub>LOW</sub>	2412	HT20	2390	47.47	RMS	hor	54.00	3	-06.53
F <sub>LOW</sub>	2412	HT20	2390	67.51	pk	ver	74.00	3	-06.49
F <sub>LOW</sub>	2412	HT20	2390	48.85	RMS	ver	54.00	3	-05.15
F <sub>LOW</sub>	2412	HT20	4821	50.29	pk	ver	74.00	1	-23.71
F <sub>LOW</sub>	2412	HT20	4821	39.20	avg	ver	54.00	1	-14.80
F <sub>MID</sub>	2437	HT20	2485.7	51.72	pk	hor	74.00	3	-22.28
F <sub>MID</sub>	2437	HT20	2485.7	30.28	avg	hor	54.00	3	-23.72
F <sub>MID</sub>	2437	HT20	4880	41.97	pk	hor	74.00	1	-32.03
F <sub>MID</sub>	2437	HT20	4881	52.23	pk	ver	74.00	1	-21.77
F <sub>MID</sub>	2437	HT20	4881	41.38	avg	ver	54.00	1	-12.62
F <sub>HIGH</sub>	2462	HT20	2483.6	68.81	pk	hor	74.00	1	-05.19
F <sub>HIGH</sub>	2462	HT20	2483.6	50.79	RMS	hor	54.00	1	-03.21
F <sub>HIGH</sub>	2462	HT20	4920	42.28	pk	hor	74.00	3	-31.72
F <sub>HIGH</sub>	2462	HT20	4925	52.30	pk	ver	74.00	3	-21.70
F <sub>HIGH</sub>	2462	HT20	4925	40.40	avg	ver	54.00	3	-13.60
Comments: * Physical distance between EUT and measurement antenna.									



Test results HT40									
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Limit dist. [m]*	Margin [dB]
F <sub>LOW</sub>	2422	HT40	2389	70.73	pk	ver	74.00	3	-03.27
F <sub>LOW</sub>	2422	HT40	2389	48.84	RMS	ver	54.00	3	-05.16
F <sub>LOW</sub>	2422	HT40	2390	71.26	pk	hor	74.00	3	-02.74
F <sub>LOW</sub>	2422	HT40	2390	48.03	RMS	hor	54.00	3	-05.97
F <sub>LOW</sub>	2422	HT40	4840	37.85	pk	hor	74.00	1	-36.15
F <sub>LOW</sub>	2422	HT40	4840	44.05	pk	ver	74.00	1	-29.95
F <sub>MID</sub>	2437	HT40	2388.8	64.22	pk	hor	74.00	3	-09.78
F <sub>MID</sub>	2437	HT40	2388.8	62.28	pk	ver	74.00	3	-11.72
F <sub>MID</sub>	2437	HT40	2483.5	62.09	pk	hor	74.00	3	-11.91
F <sub>MID</sub>	2437	HT40	4894	50.16	pk	ver	74.00	1	-23.84
F <sub>MID</sub>	2437	HT40	4894	38.40	avg	ver	54.00	1	-15.60
F <sub>MID</sub>	2437	HT40	4904	39.57	pk	hor	74.00	1	-34.43
F <sub>HIGH</sub>	2452	HT40	2380	55.08	pk	ver	74.00	3	-18.92
F <sub>HIGH</sub>	2452	HT40	2389	57.63	pk	hor	74.00	3	-16.37
F <sub>HIGH</sub>	2452	HT40	2389	51.85	pk	ver	74.00	3	-22.15
F <sub>HIGH</sub>	2452	HT40	2399	65.34	pk	hor	95.00	3	-29.66
F <sub>HIGH</sub>	2452	HT40	2483.5	70.24	pk	hor	74.00	3	-03.76
F <sub>HIGH</sub>	2452	HT40	2483.5	52.56	RMS	hor	54.00	3	-01.44
F <sub>HIGH</sub>	2452	HT40	2483.6	66.85	pk	ver	74.00	3	-07.15
F <sub>HIGH</sub>	2452	HT40	2483.6	45.84	RMS	ver	54.00	3	-08.16
F <sub>HIGH</sub>	2452	HT40	2486.7	72.38	pk	hor	74.00	3	-01.62
F <sub>HIGH</sub>	2452	HT40	2486.7	51.73	RMS	hor	54.00	3	-02.27
F <sub>HIGH</sub>	2452	HT40	2486.8	67.24	pk	ver	74.00	3	-06.76
F <sub>HIGH</sub>	2452	HT40	2486.8	44.61	RMS	ver	54.00	3	-09.39
F <sub>HIGH</sub>	2452	HT40	2501	62.16	pk	hor	95.00	3	-32.84
F <sub>HIGH</sub>	2452	HT40	2503	54.54	pk	ver	95.00	1	-40.46
F <sub>HIGH</sub>	2452	HT40	4924	46.79	pk	ver	74.00	1	-27.21
F <sub>HIGH</sub>	2452	HT40	4924	35.53	avg	ver	54.00	1	-18.47
Comments: * Physical distance between EUT and measurement antenna.									

### 3.9 Test Conditions and Results – Receiver radiated emissions

Receiver radiated emissions acc. to IC RSS-247				Verdict: PASS
Test according referenced standards	Reference Method			
	IC RSS-247 3.1			
Test according to measurement reference	Reference Method			
	ANSI C63.10			
Test frequency range	Tested frequencies			
	30 MHz – 5 <sup>th</sup> Harmonic			
EUT test mode	Receive			
Limits				
Frequency range [MHz]	Detector	Limit [µV/m]	Limit [dBµV/m]	Limit Distance [m]
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
Test setup				
				

Test procedure							
<ol style="list-style-type: none"> <li>1. EUT set to receive mode (Communication tester is used if needed)</li> <li>2. Span it set according to measurement range</li> <li>3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz</li> <li>4. Markers are set to peak emission levels</li> </ol>							
Test results							
Channel	Frequency [MHz]	Emission [MHz]	Emission Level [dB $\mu$ V/m]	Det.	Pol.	Limit [dB $\mu$ V/m]	Margin [dB $\mu$ V/m]
F <sub>MID</sub>	2427	681.6	23.50	pk	hor	46.00	-22.5 dB
F <sub>MID</sub>	2427	904	24.22	pk	ver	46.00	-21.78 dB
F <sub>MID</sub>	2427	3736	40.02	pk	hor	53.98	-13.96 dB
F <sub>MID</sub>	2427	7432	48.76	pk	hor	53.98	-5.22 dB
Comments:							

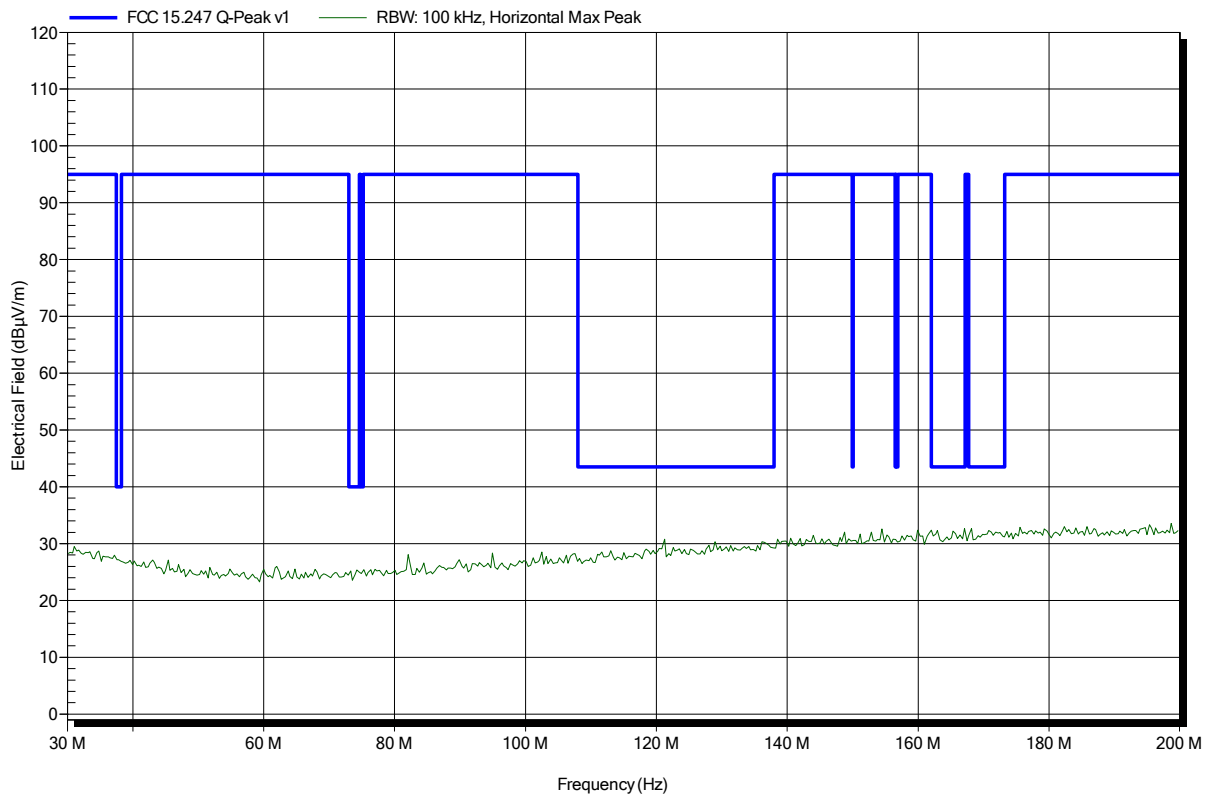
## ANNEX A Transmitter radiated spurious emissions

### Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3.7 V DC lithium battery
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; DSSS; 1Mbps; 2412 MHz
Test Date:	2015-04-21
Note:	

Index 31

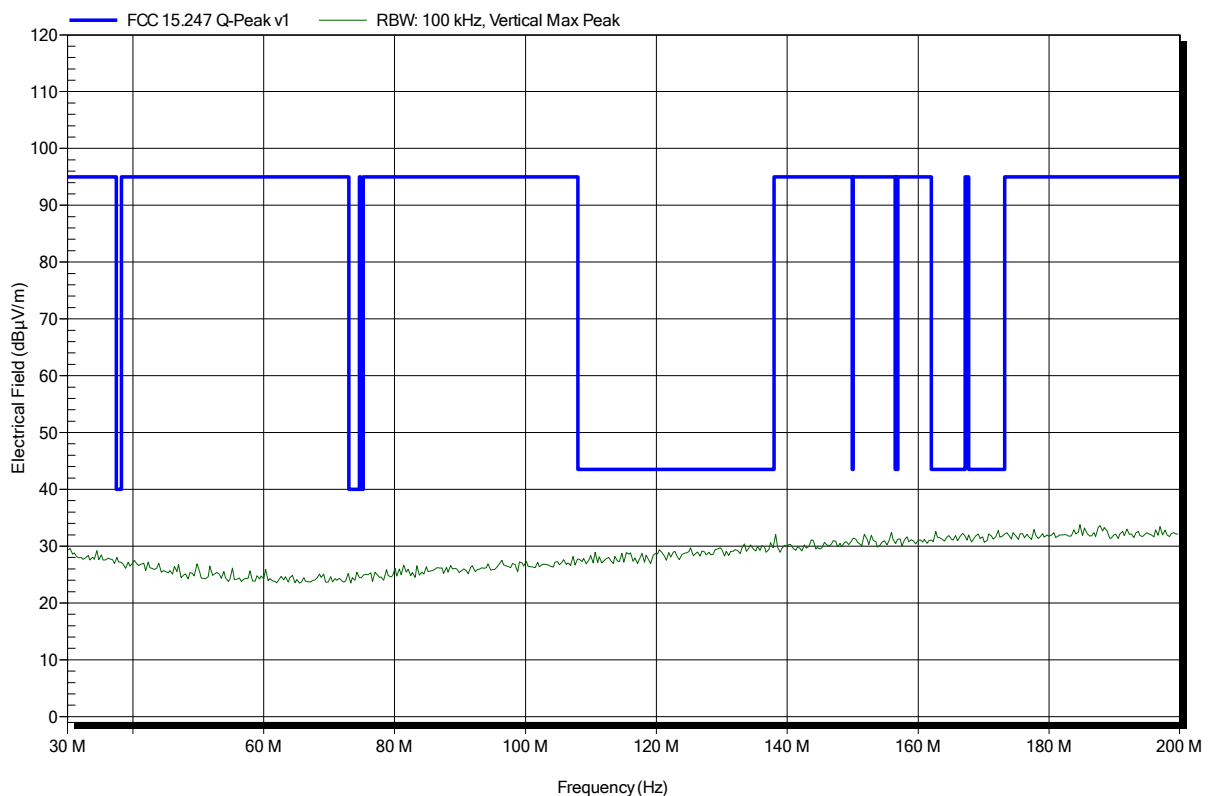


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Rohde & Schwarz HK 116, Vertical  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1Mbps; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 32

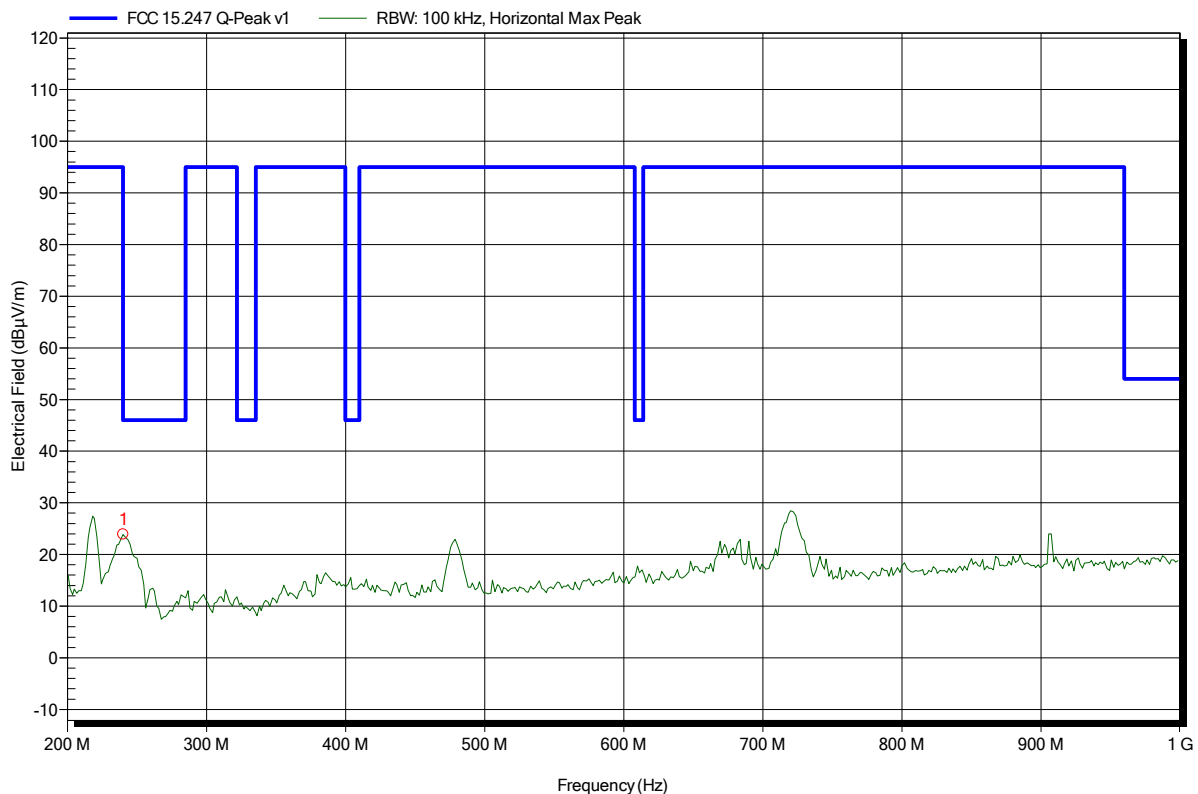


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Treffke  
Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
Antenna: Rohde & Schwarz HL 223, Horizontal  
Measurement distance: 3 m  
Mode: TX; DSSS; 1Mbps; 2412 MHz  
Test Date: 2015-04-21  
Note:

Index 29



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
240.208 MHz	23.86 dBµV/m	46 dBµV/m	-22.14 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

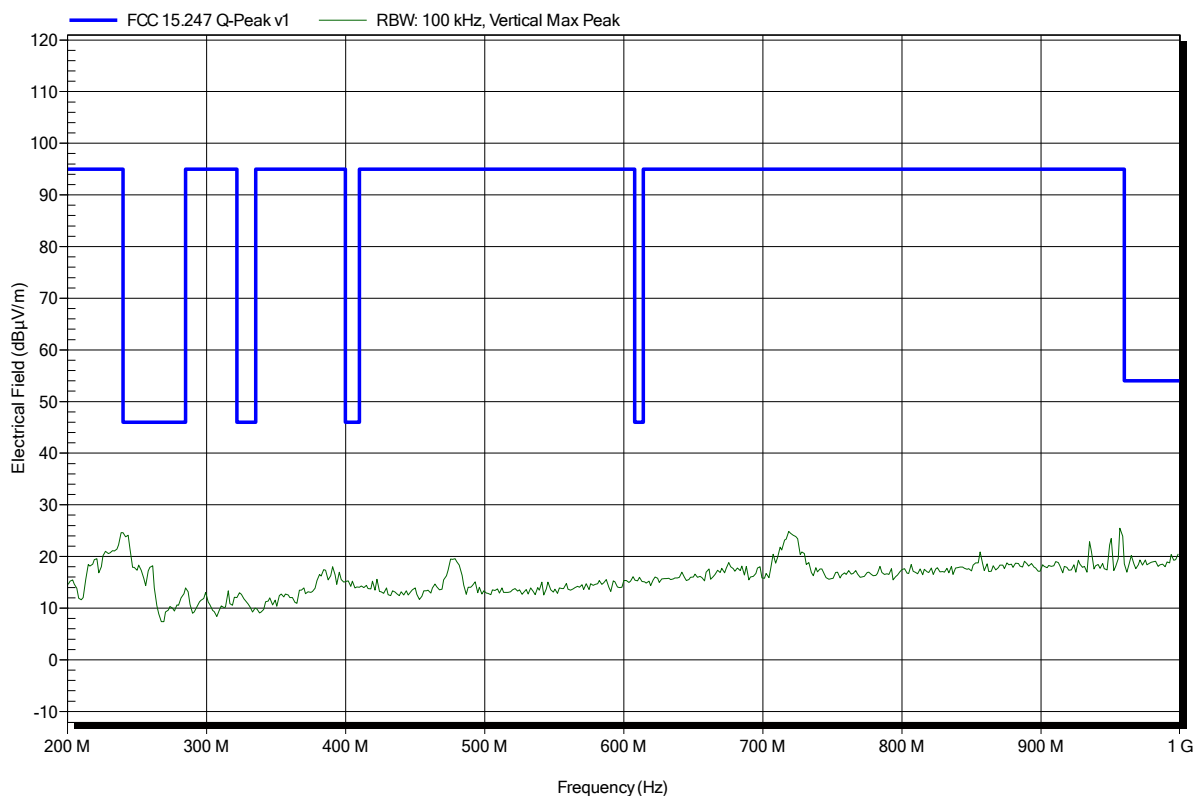
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3.7 V DC lithium battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; DSSS; 1Mbps; 2412 MHz
Test Date:	2015-04-21
Note:	

Index 30

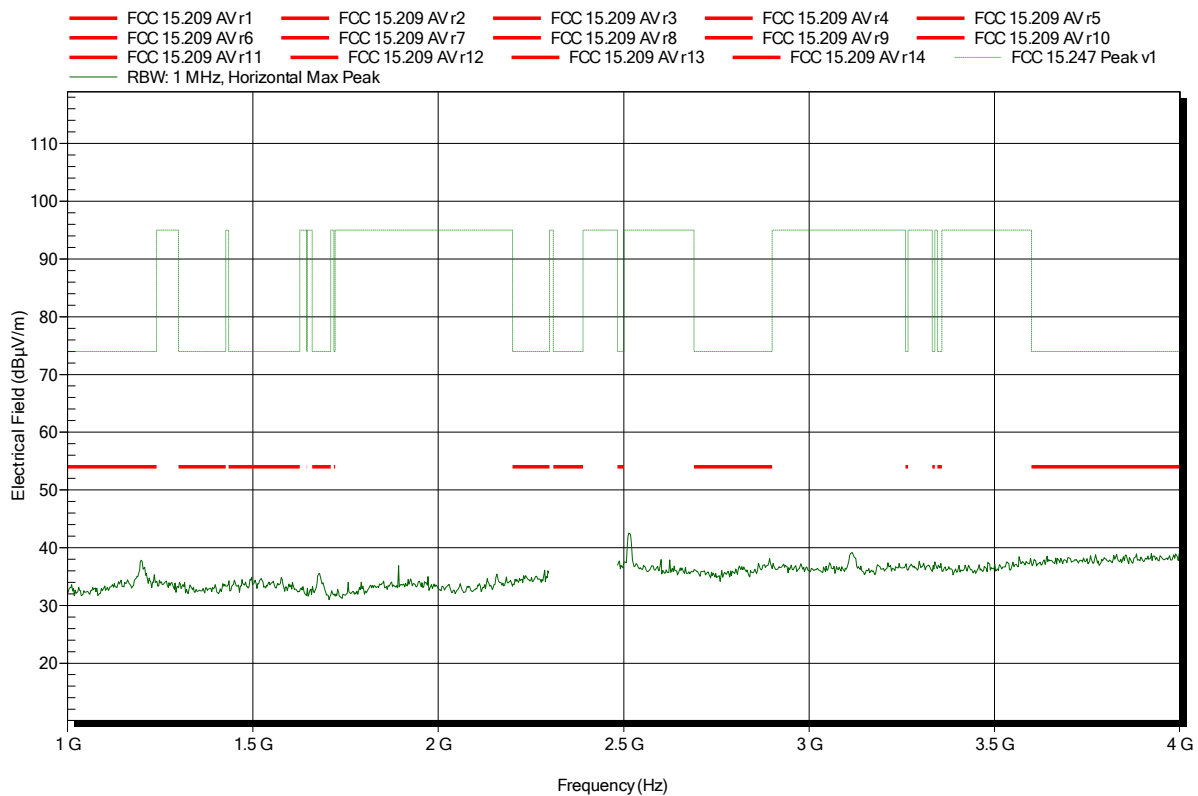


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1Mbps; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 22



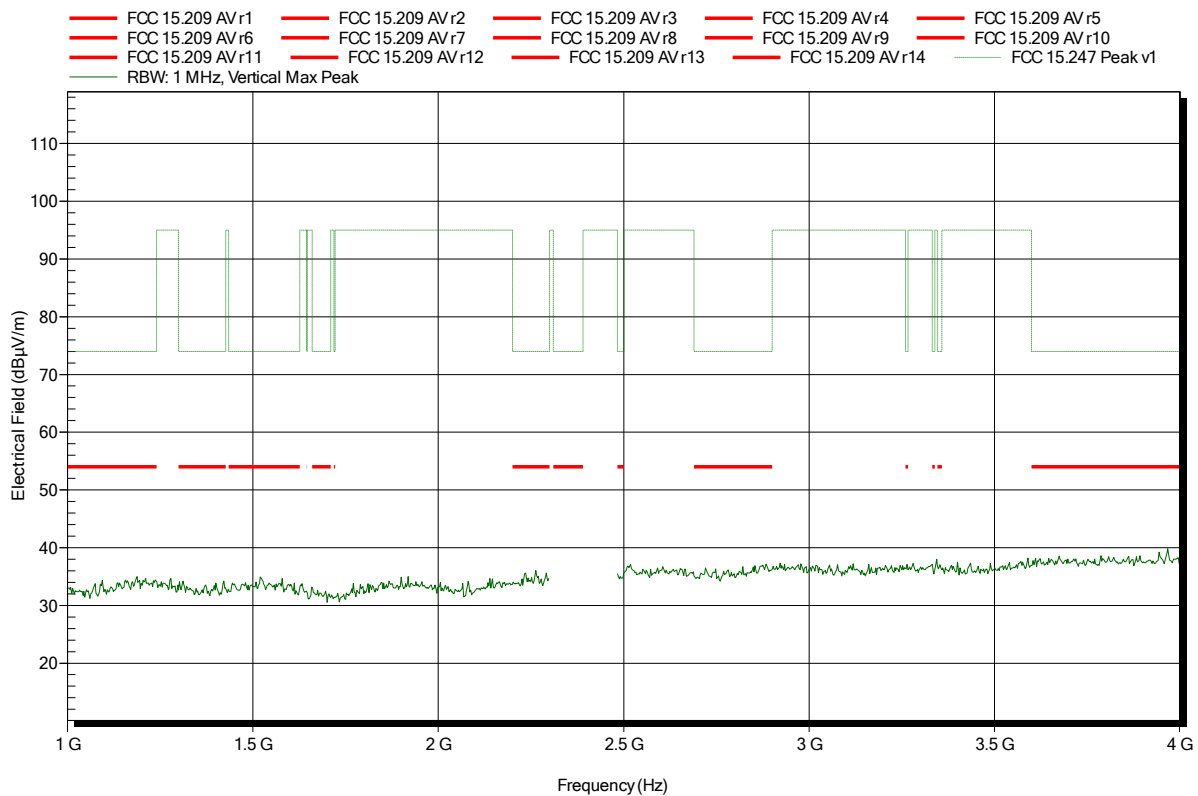


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1Mbps; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 23

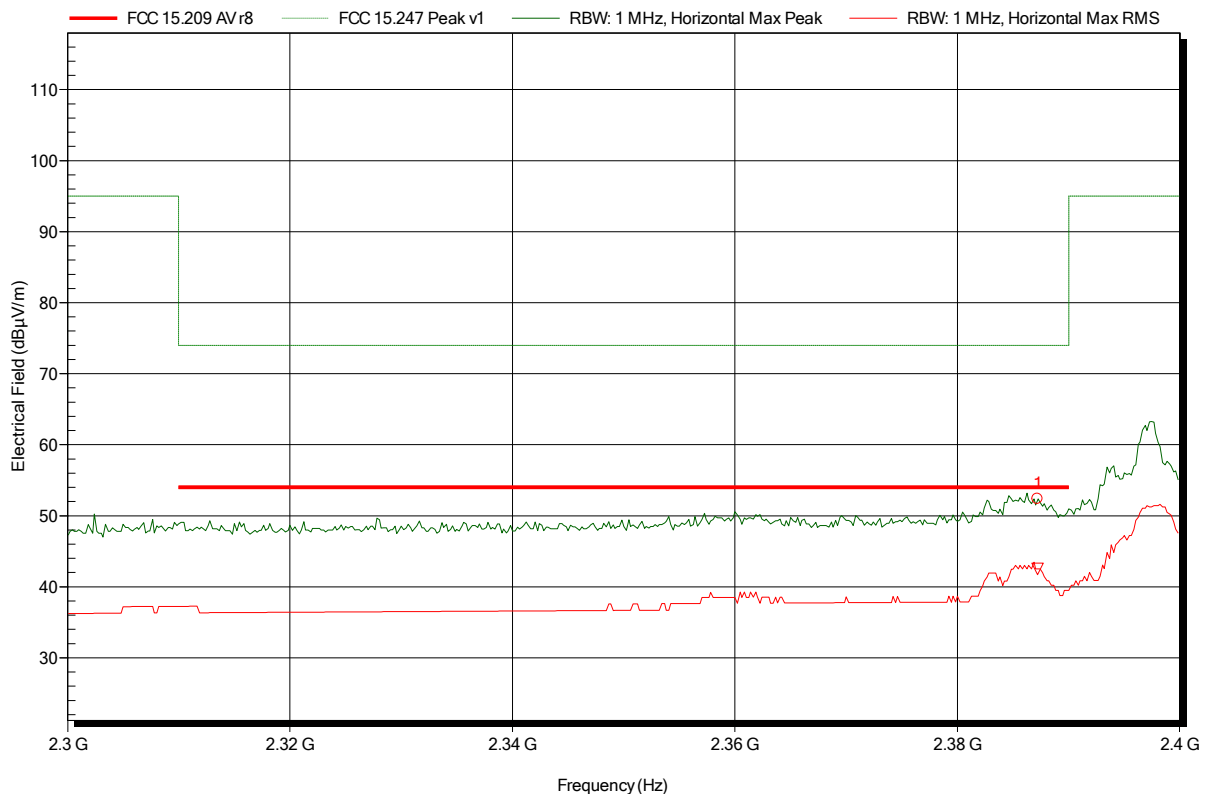


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2412 MHz  
 Test Date: 2015-04-21  
 Note: lower bandedge

Index 1



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.387 GHz	52.39 dBµV/m	74 dBµV/m	-21.61 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.387 GHz	42.51 dBµV/m	54 dBµV/m	-11.49 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

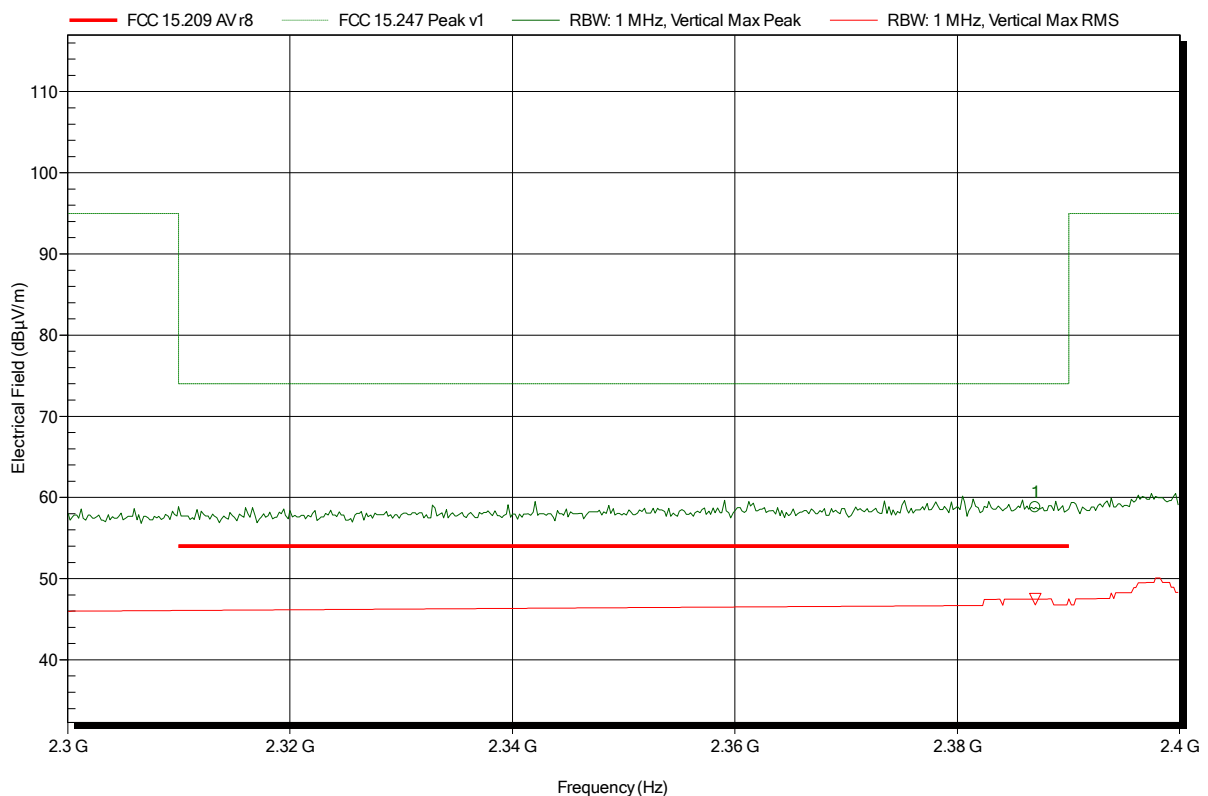
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2412 MHz  
 Test Date: 2015-04-21  
 Note: lower bandedge

Index 5



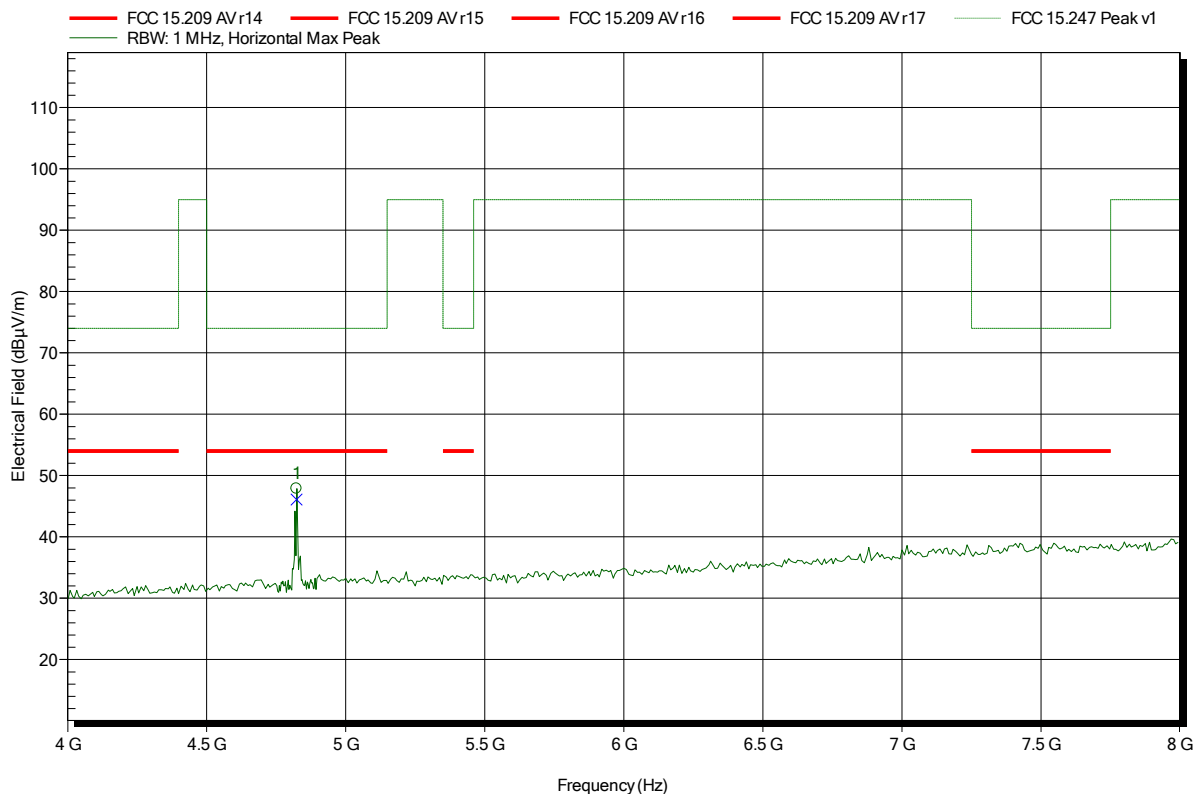
Frequency 2.387 GHz	Peak 58.77 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -15.23 dB	Peak Status Pass
Frequency 2.387 GHz	RMS 47.48 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -6.52 dB	RMS Status Pass

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 2



Frequency 4.824 GHz	Peak 47.87 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -26.13 dB	Status Pass
Frequency 4.824 GHz	Average 46.11 dBµV/m	Average Limit 54 dBµV/m	Average Difference -7.89 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

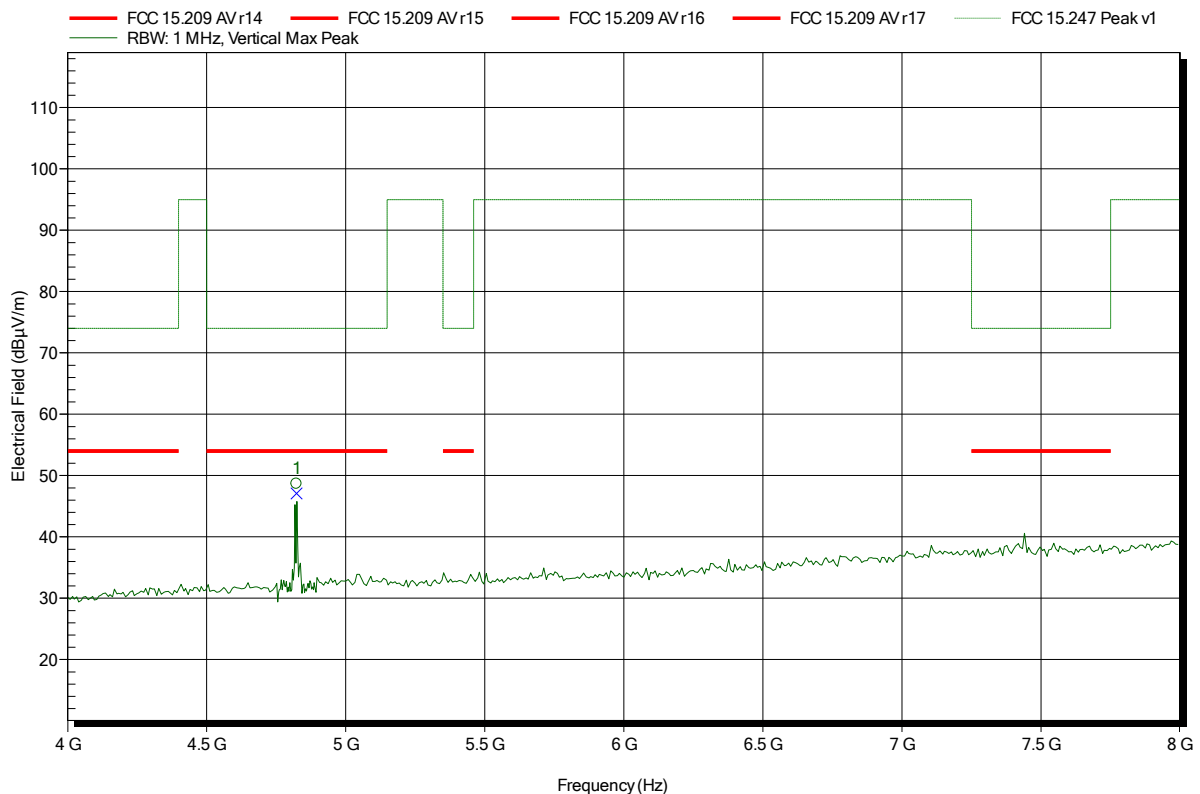
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 6



Frequency 4.824 GHz	Peak 48.64 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -25.36 dB	Status Pass
Frequency 4.824 GHz	Average 47.06 dBµV/m	Average Limit 54 dBµV/m	Average Difference -6.94 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

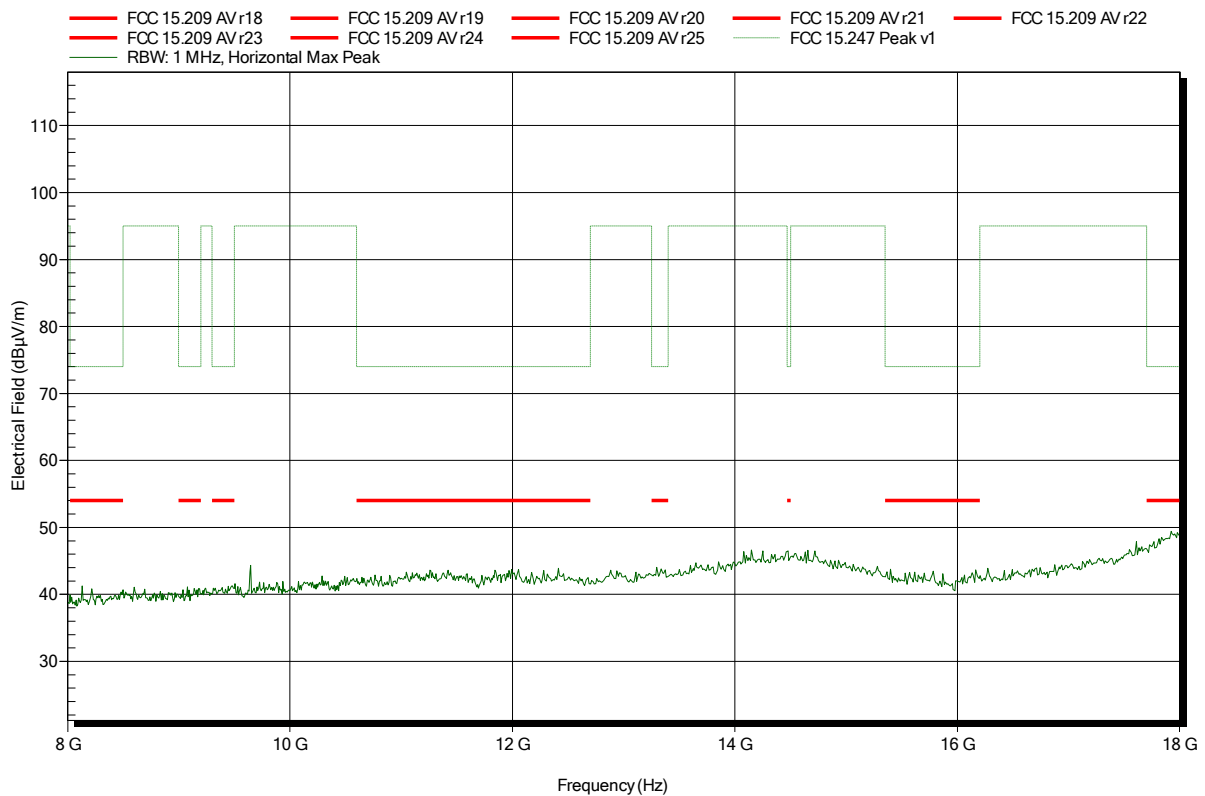
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 3

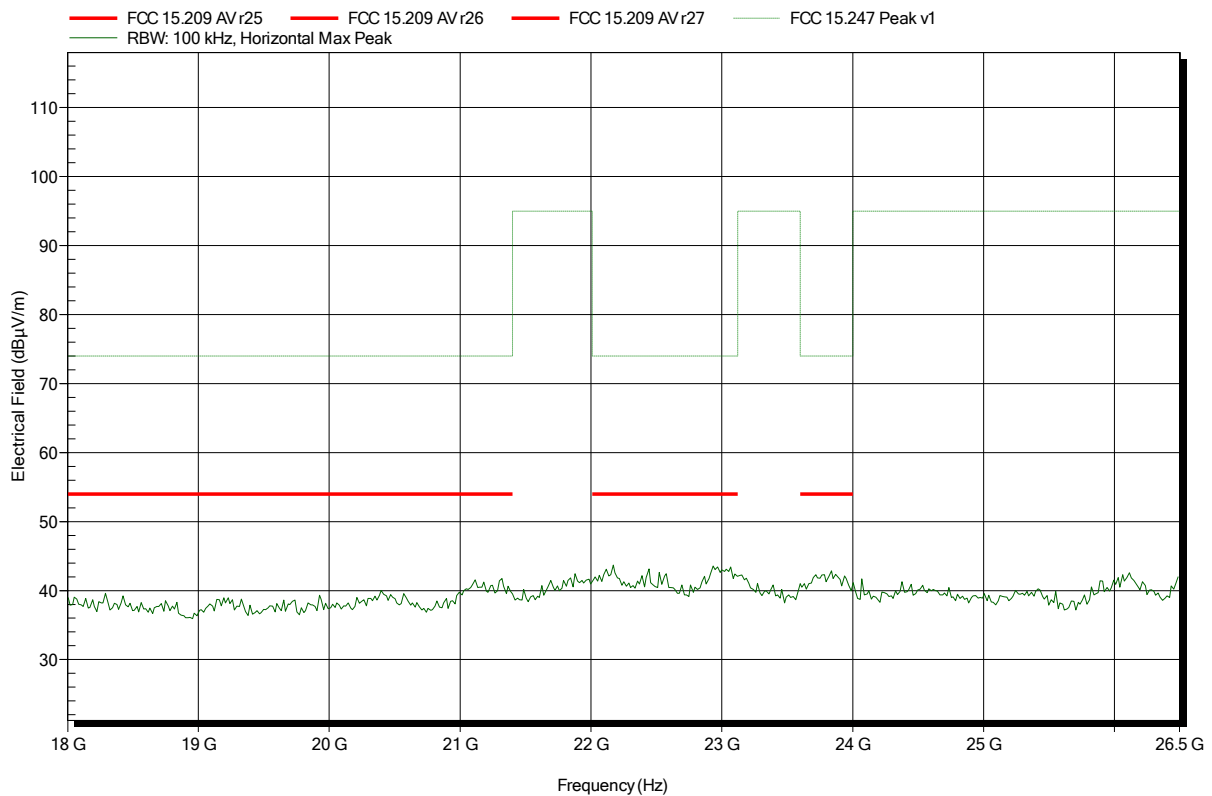


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 4

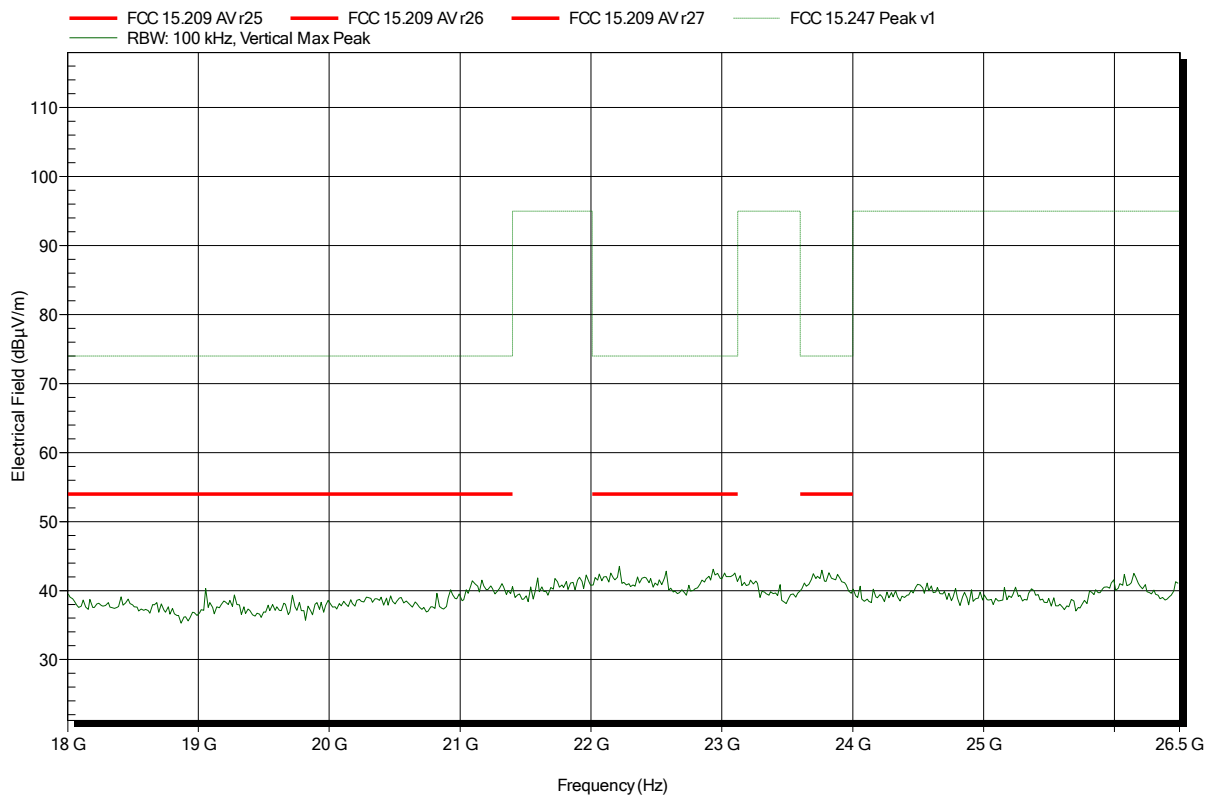


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 7



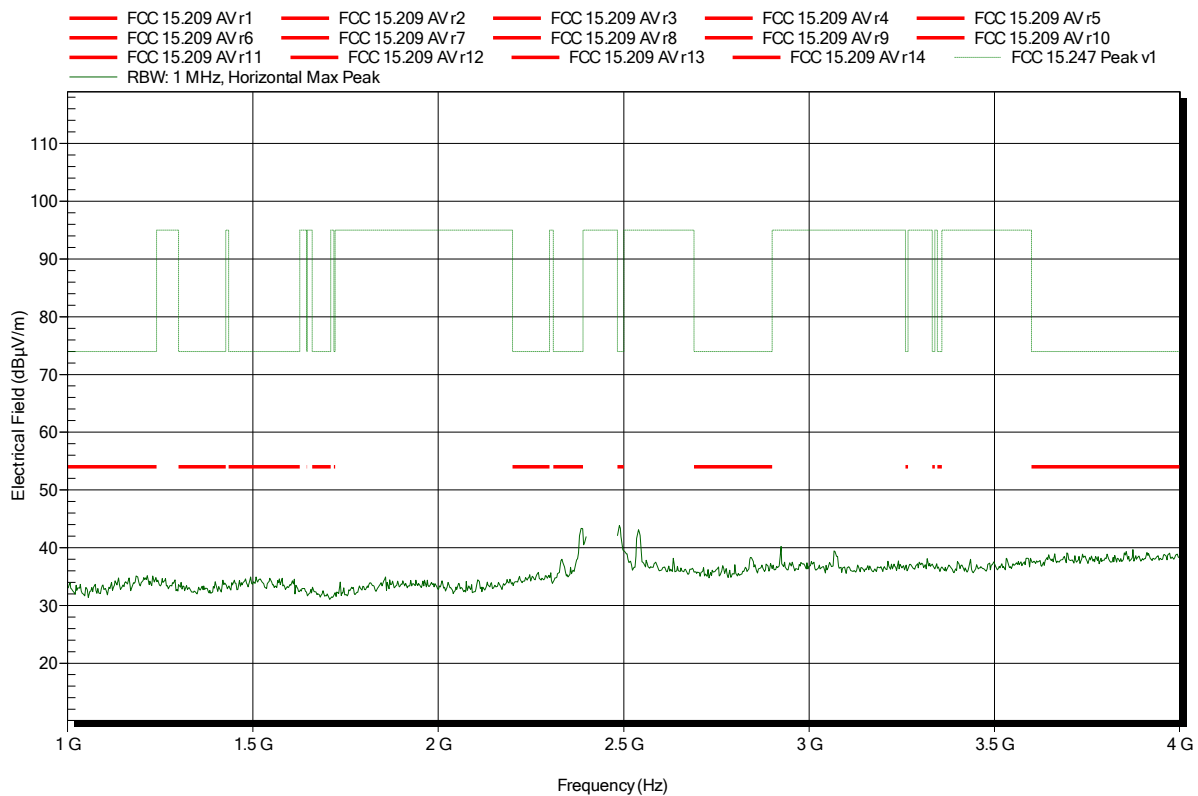


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1Mbps; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 25

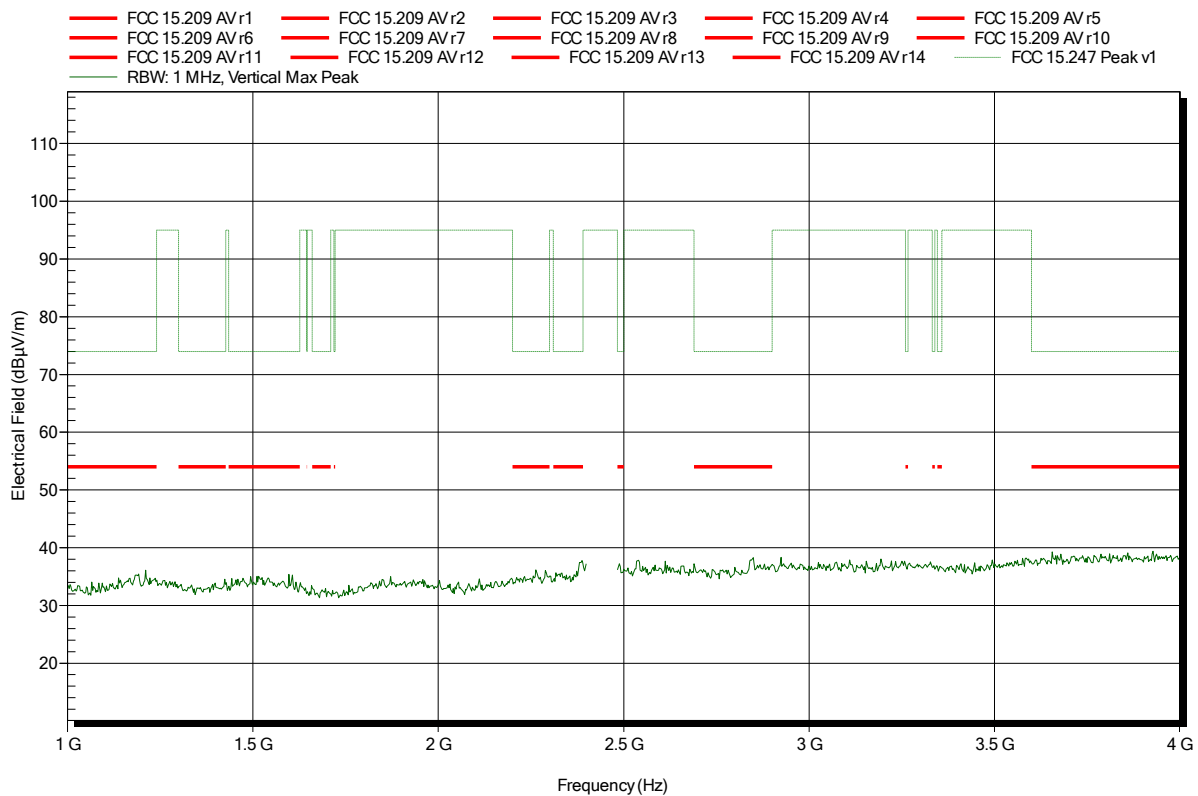


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1Mbps; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 26

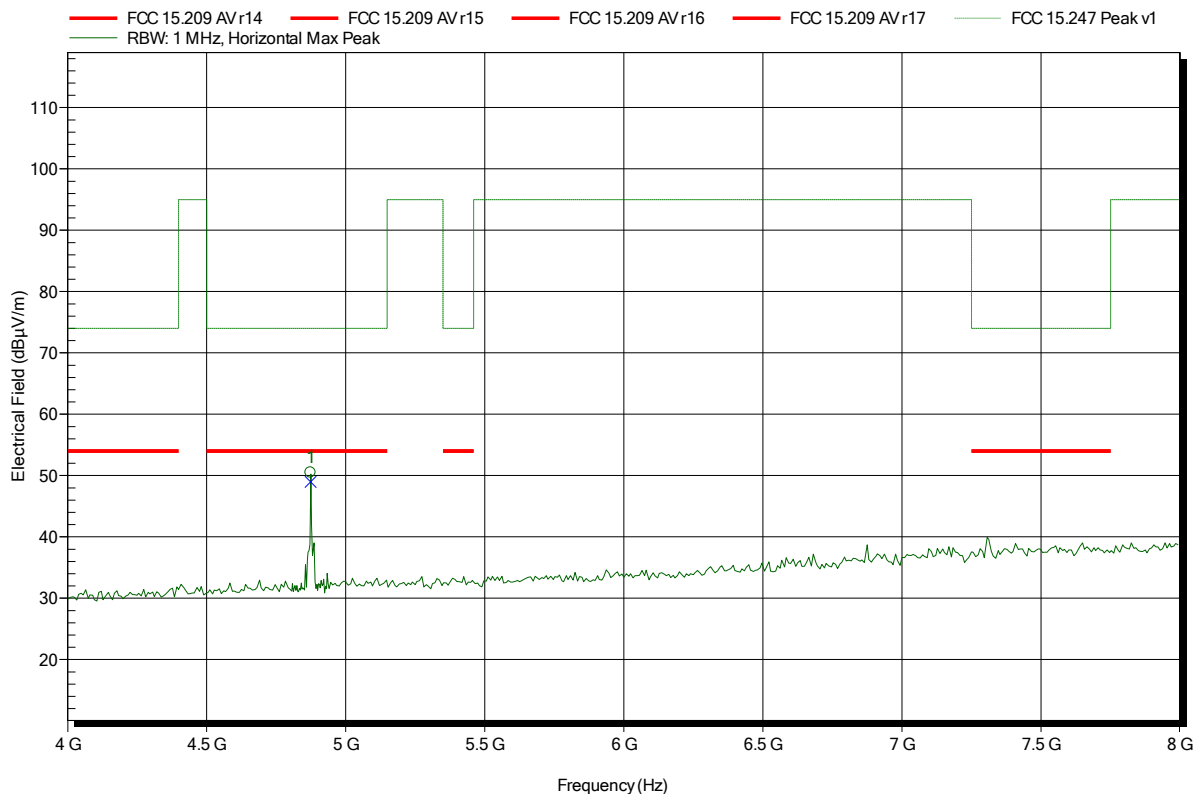


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 8



Frequency 4.874 GHz	Peak 50.47 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -23.53 dB	Status Pass
Frequency 4.874 GHz	Average 48.99 dBµV/m	Average Limit 54 dBµV/m	Average Difference -5.01 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

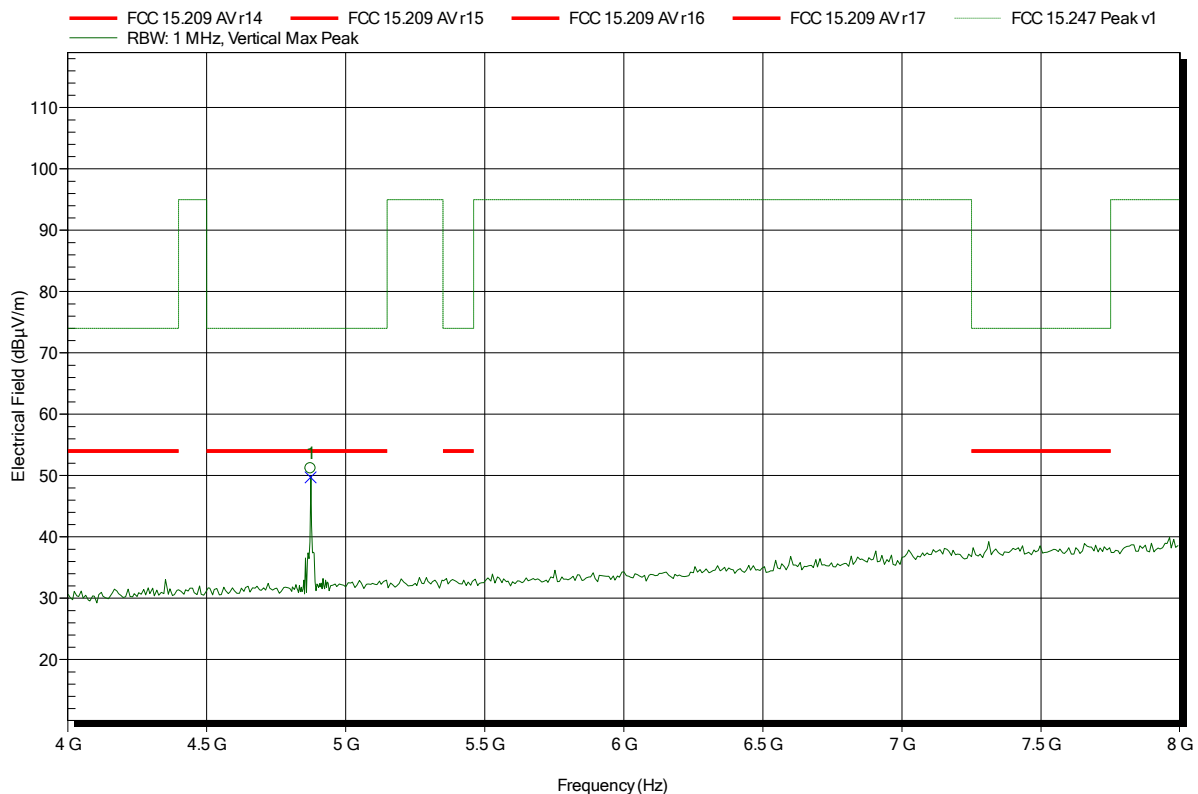
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 11



Frequency 4.874 GHz	Peak 51.15 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -22.85 dB	Status Pass
Frequency 4.874 GHz	Average 49.73 dBµV/m	Average Limit 54 dBµV/m	Average Difference -4.27 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

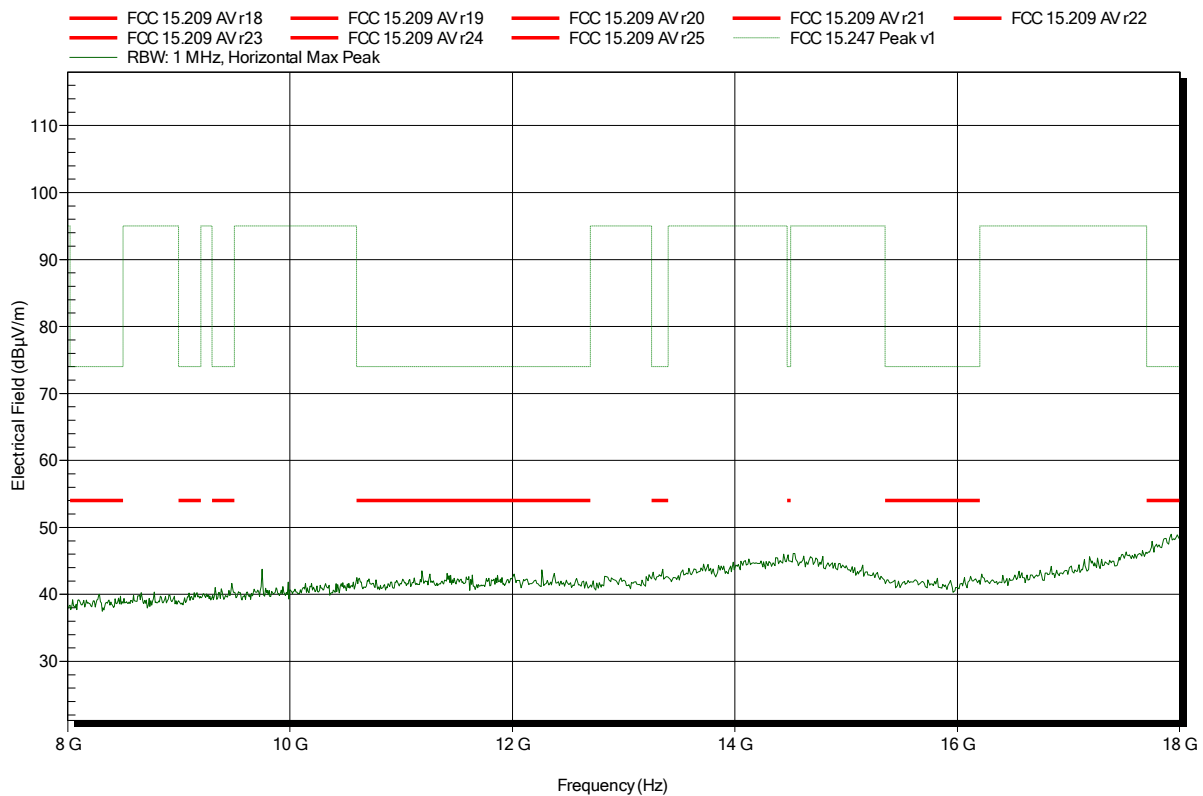
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 9

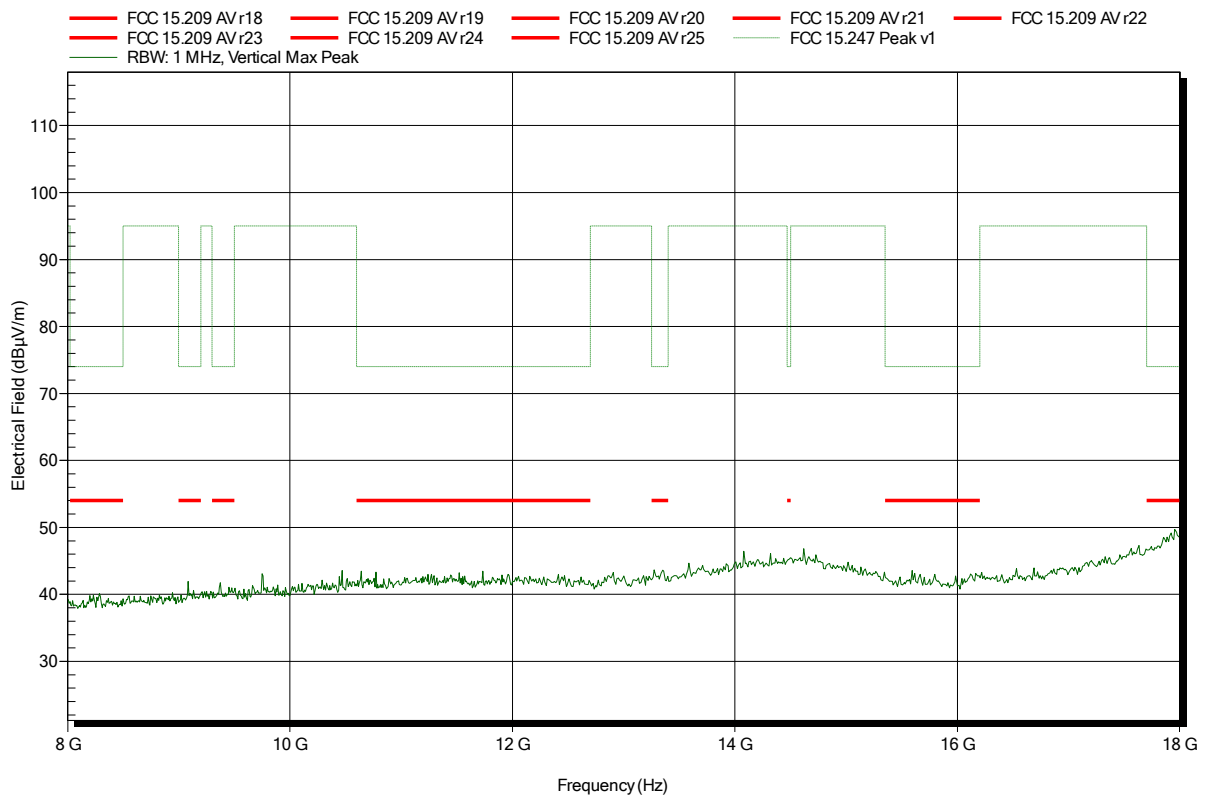


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 12

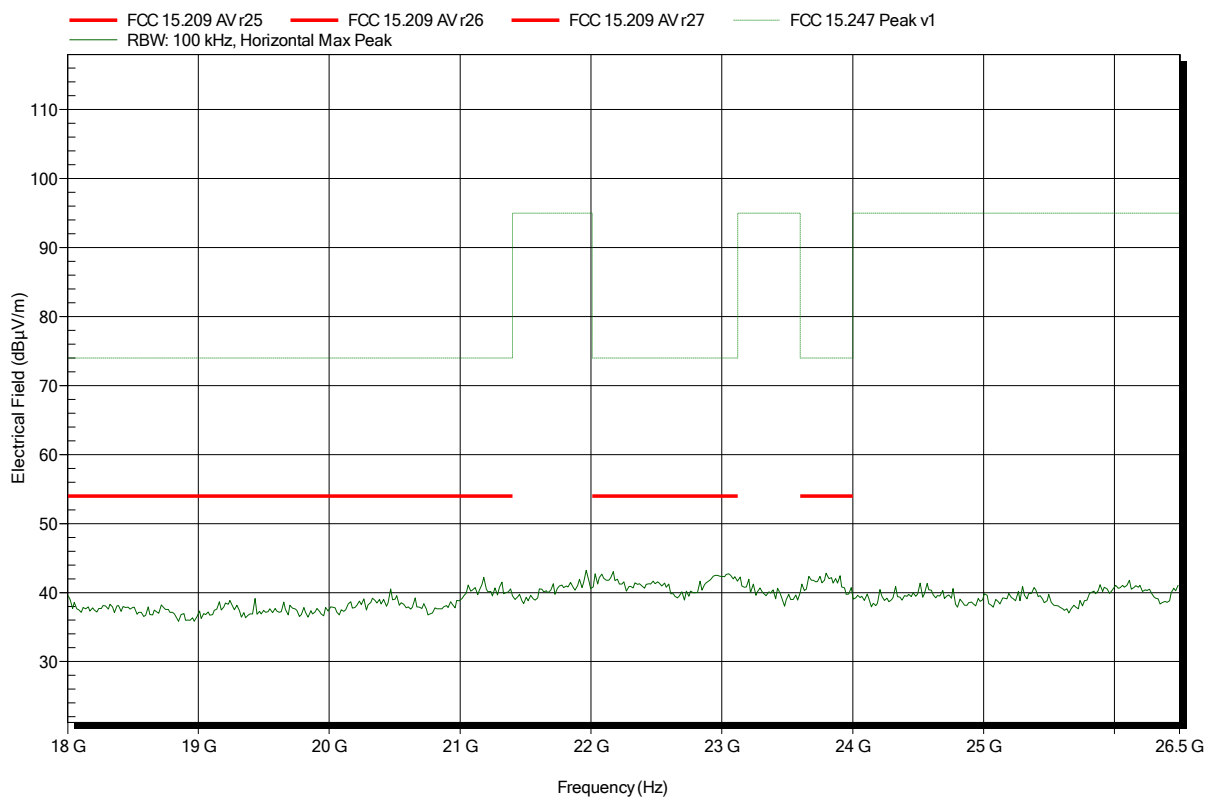


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 10

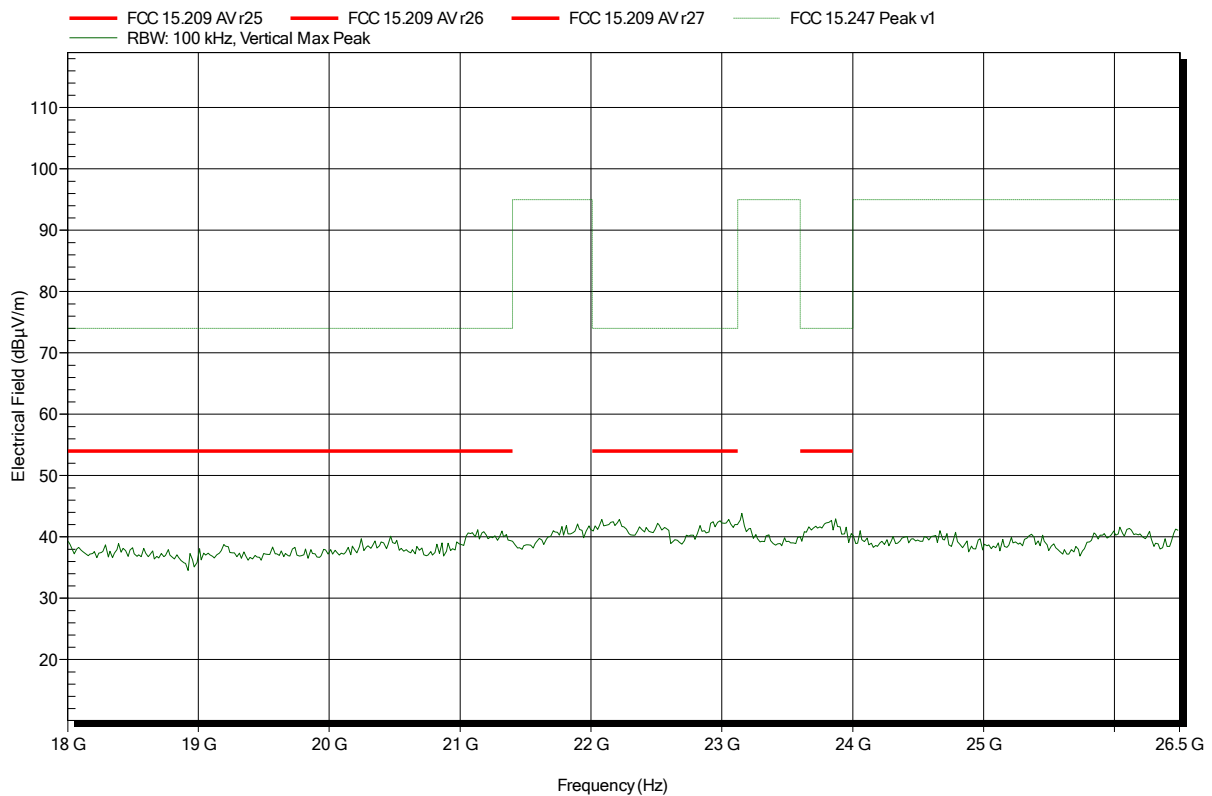


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 13



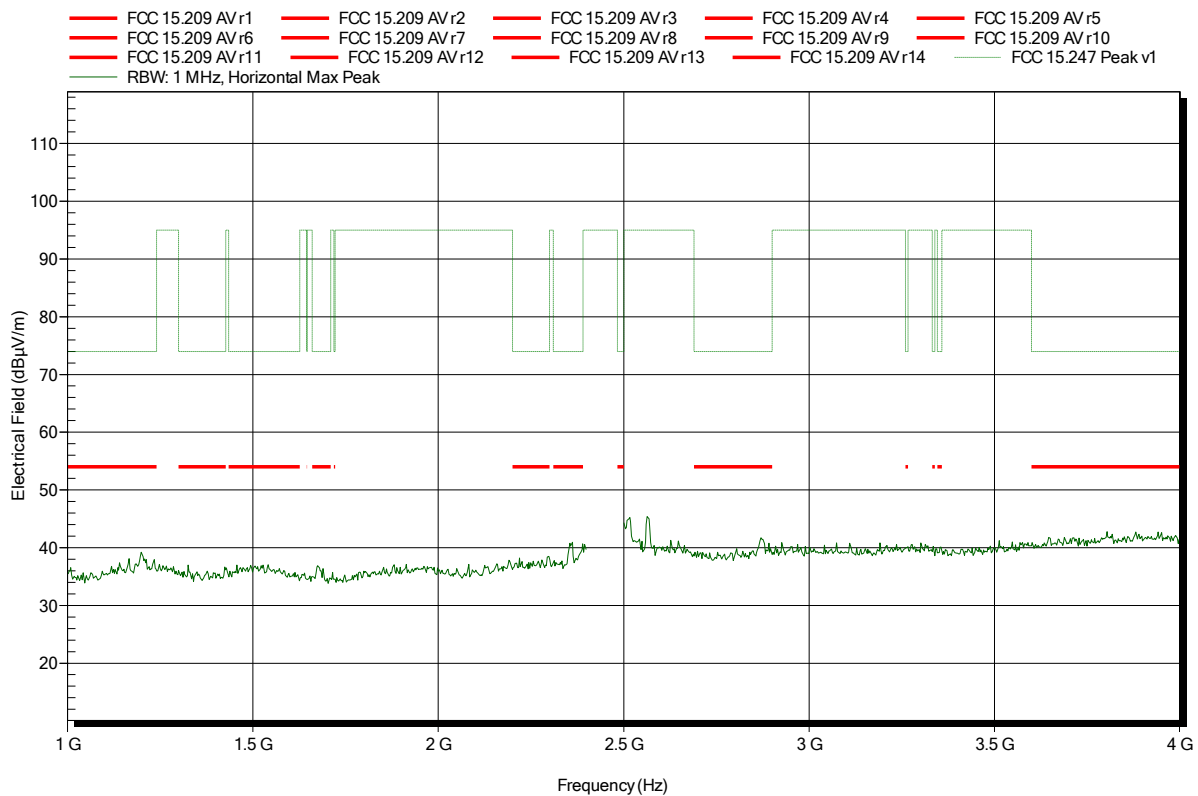


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1Mbps; 2462 MHz  
 Test Date: 2015-04-21  
 Note:

Index 27

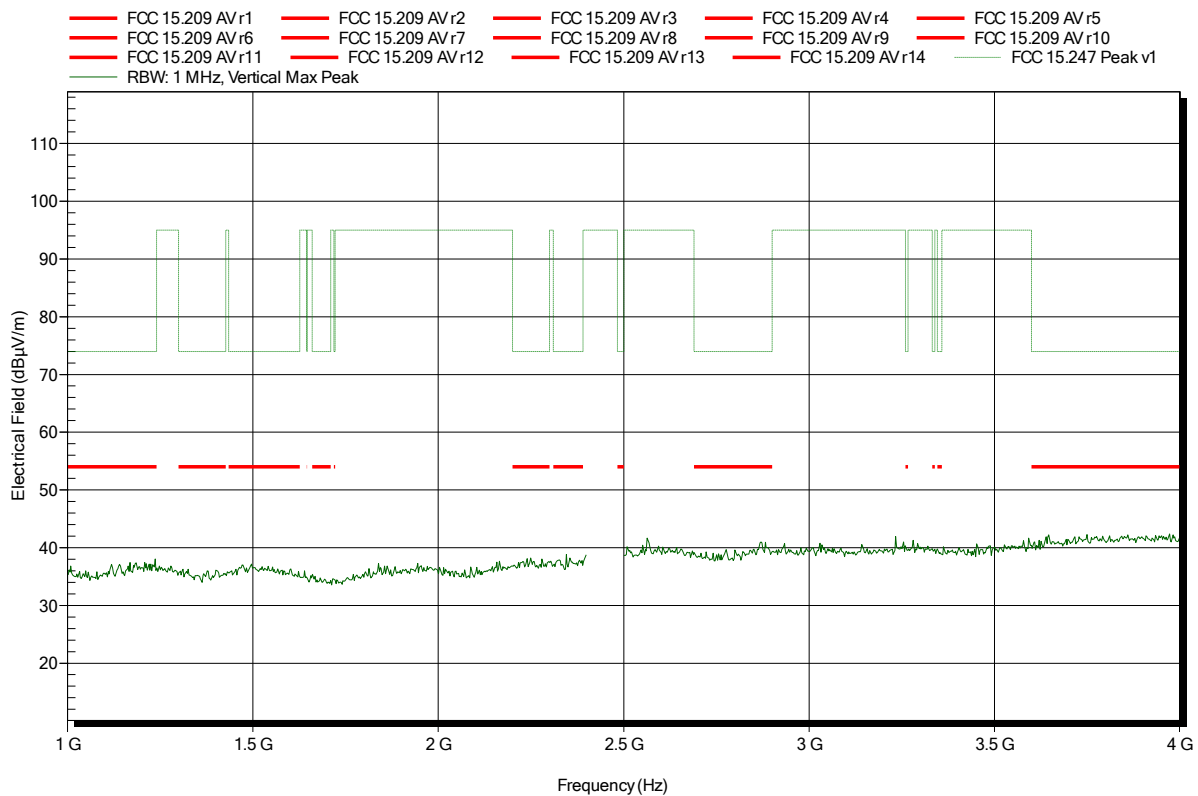


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; DSSS; 1Mbps; 2462 MHz  
 Test Date: 2015-04-21  
 Note:

Index 28

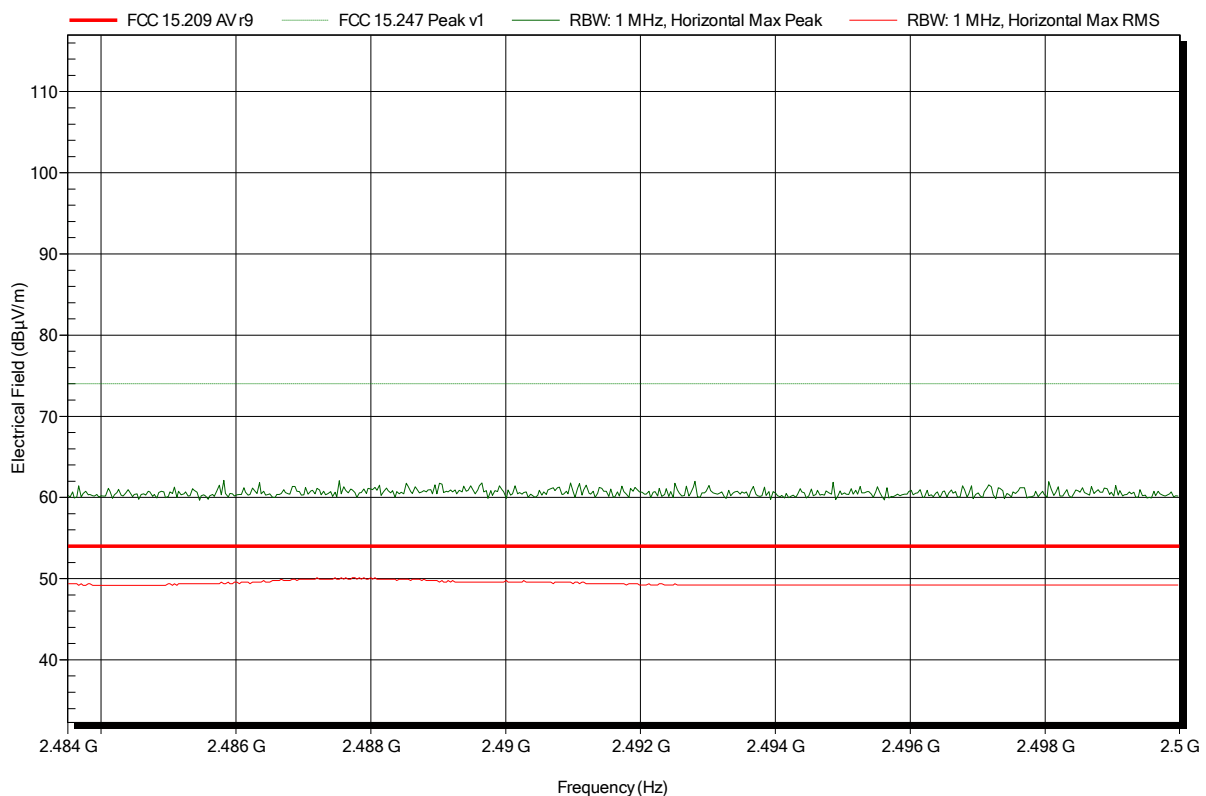


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2462 MHz  
 Test Date: 2015-04-21  
 Note: upper bandedge

Index 14

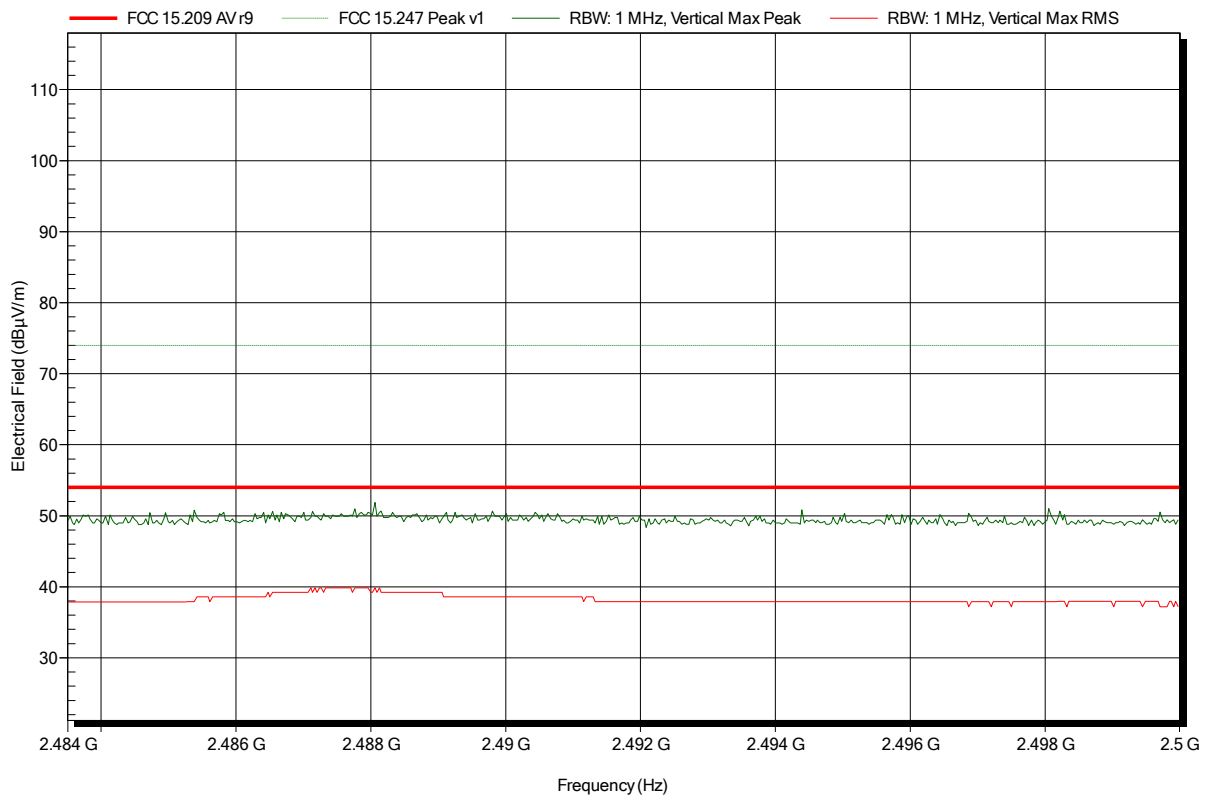


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2462 MHz  
 Test Date: 2015-04-21  
 Note: upper bandedge

Index 18

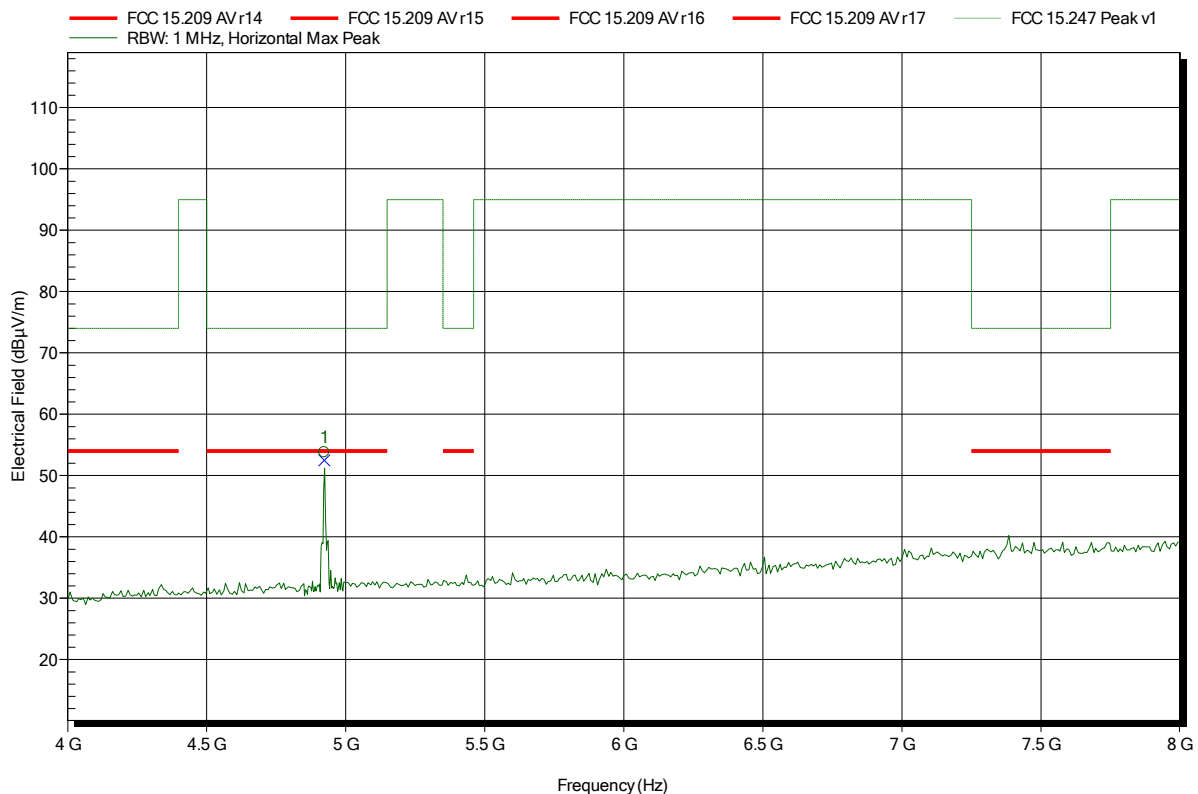


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2462 MHz  
 Test Date: 2015-04-21  
 Note:

Index 15



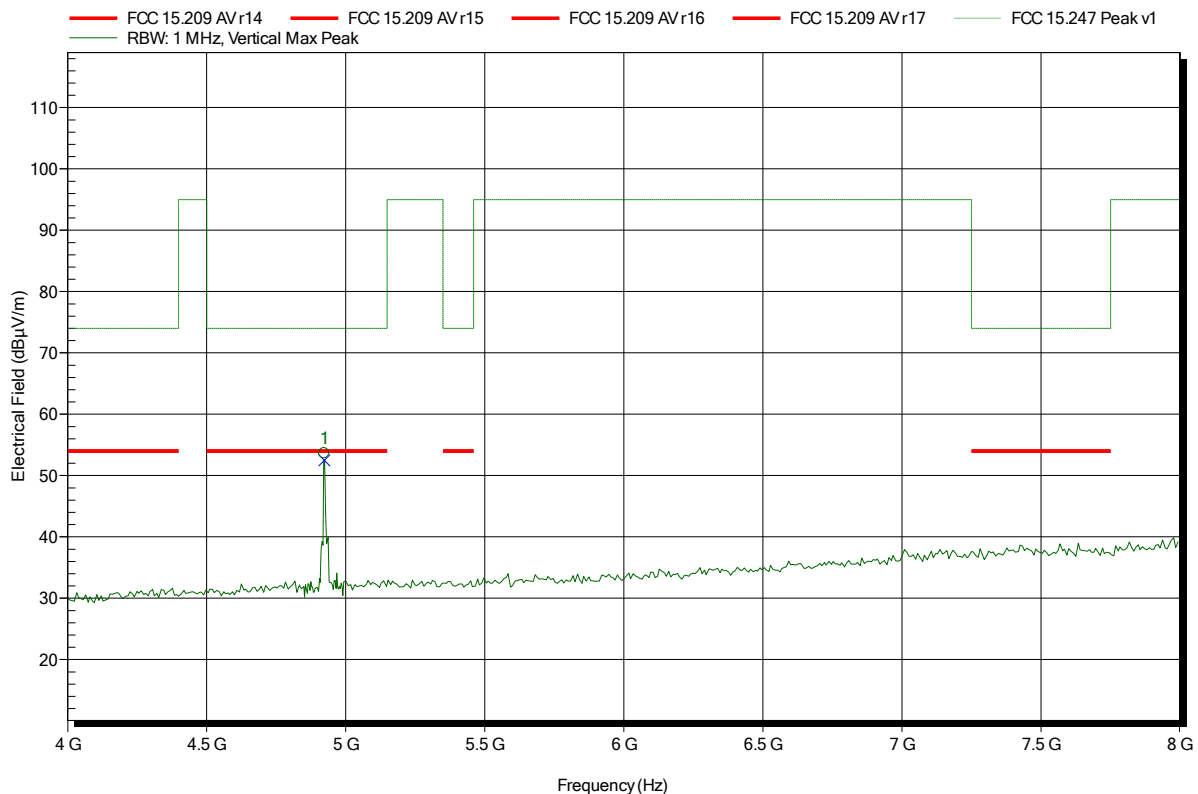
Frequency 4.924 GHz	Peak 53.78 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -20.22 dB	Status Pass
Frequency 4.924 GHz	Average 52.46 dBµV/m	Average Limit 54 dBµV/m	Average Difference -1.54 dB	Average Status Pass

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2462 MHz  
 Test Date: 2015-04-21  
 Note:

Index 19



Frequency 4.924 GHz	Peak 53.61 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -20.39 dB	Status Pass
Frequency 4.924 GHz	Average 52.48 dBµV/m	Average Limit 54 dBµV/m	Average Difference -1.52 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

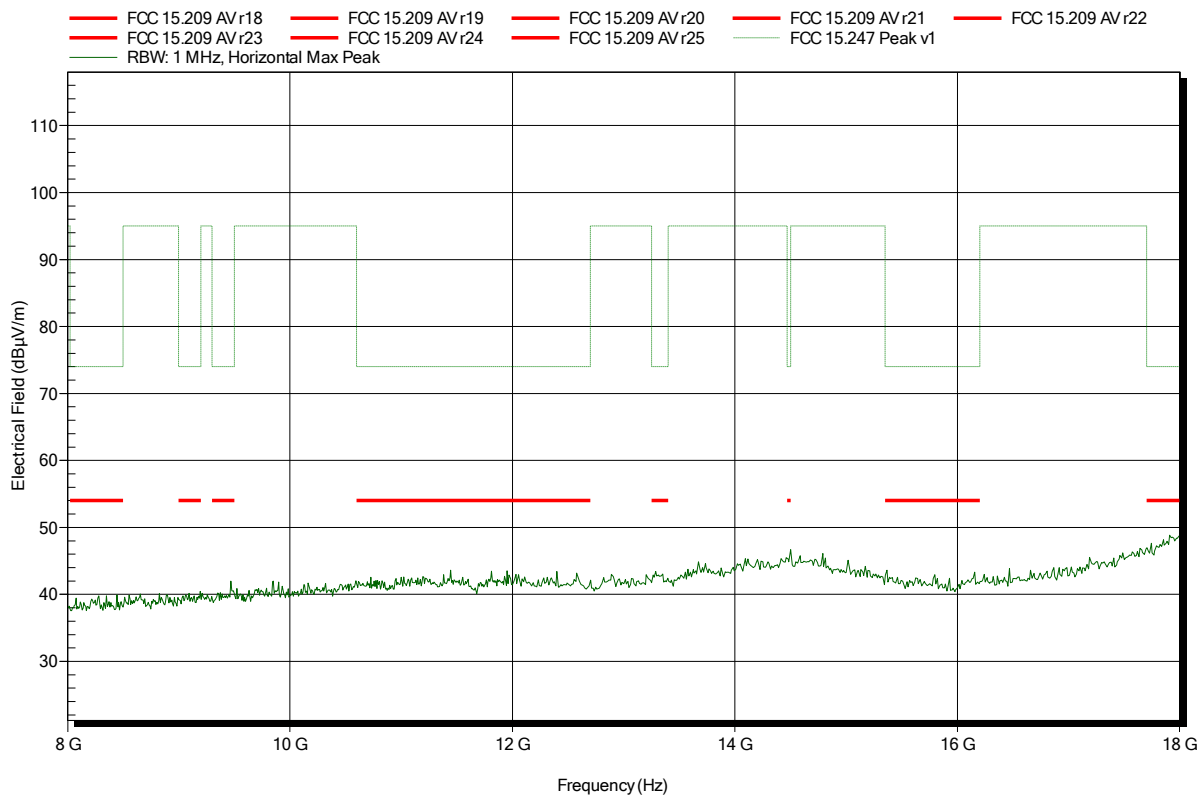
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2462 MHz  
 Test Date: 2015-04-21  
 Note:

Index 16

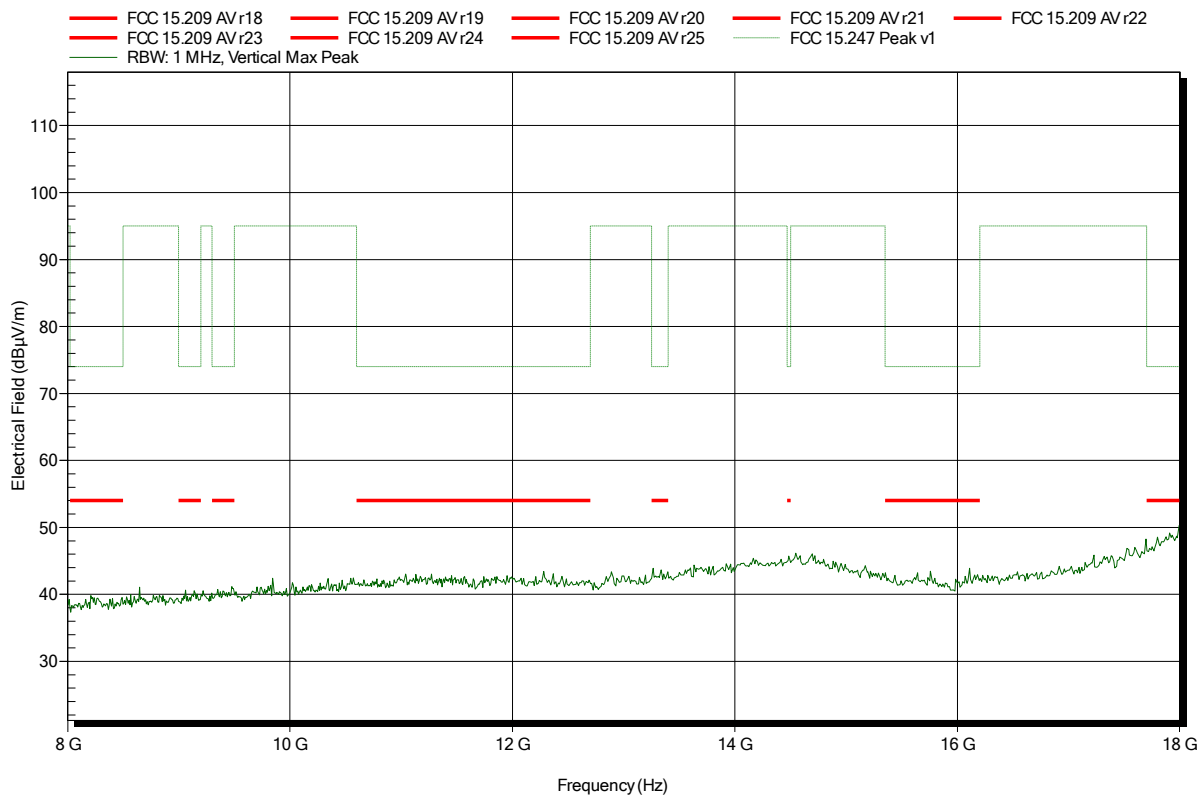


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2462 MHz  
 Test Date: 2015-04-21  
 Note:

Index 20



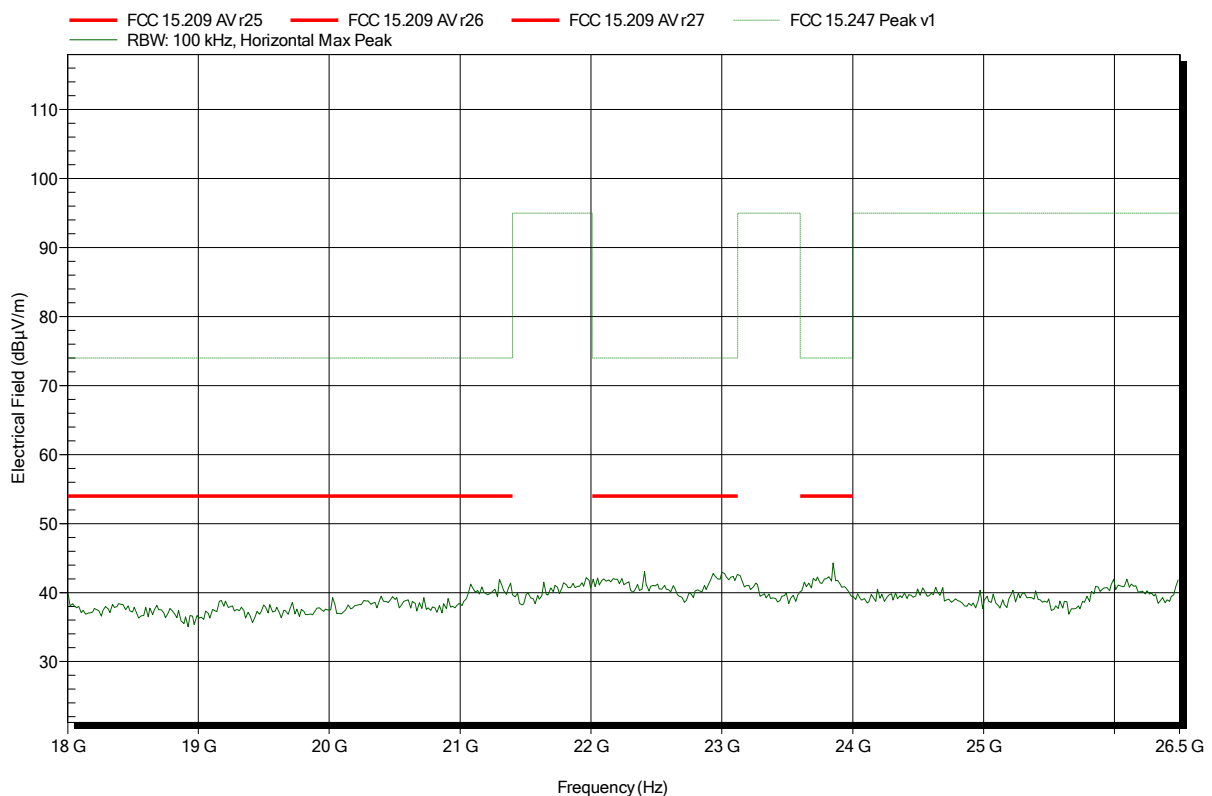


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3.7 V DC lithium battery
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; DSSS; 1Mbps; 2462 MHz
Test Date:	2015-04-21
Note:	

Index 17

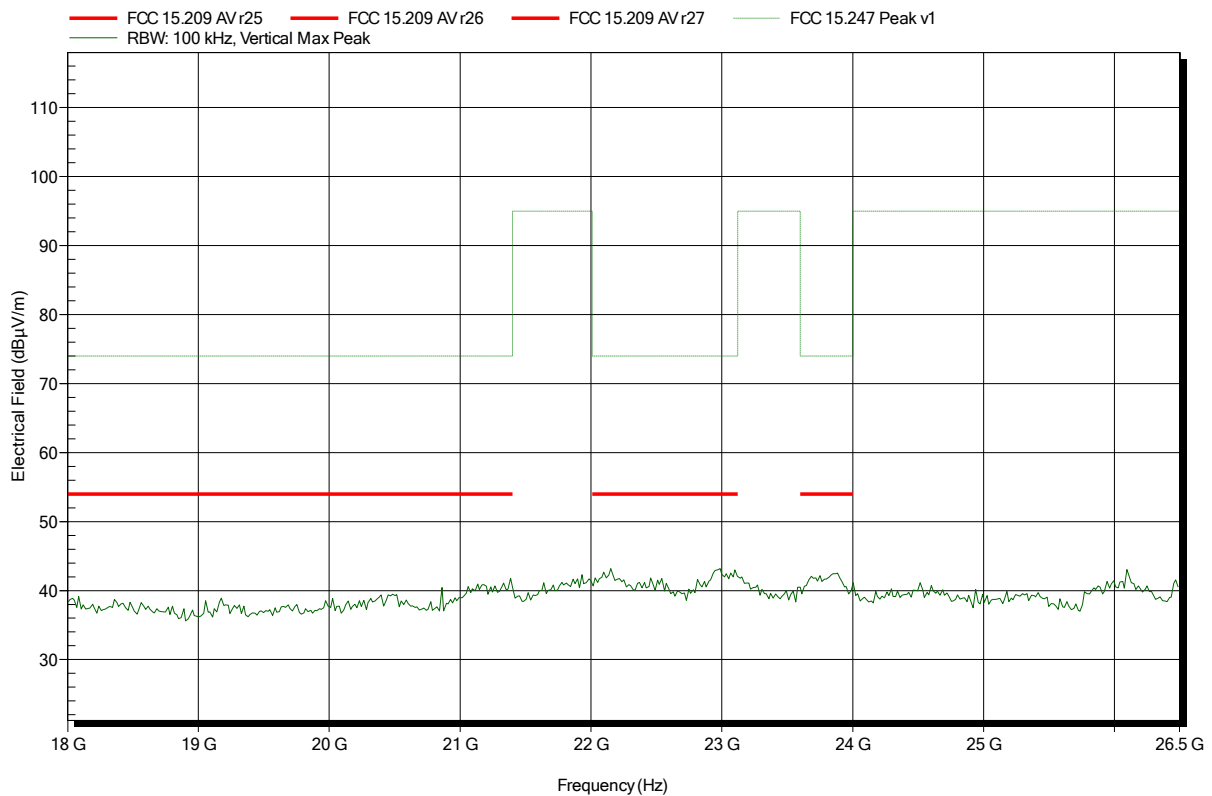


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 025, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; DSSS; 1Mbps; 2462 MHz  
 Test Date: 2015-04-21  
 Note:

Index 21

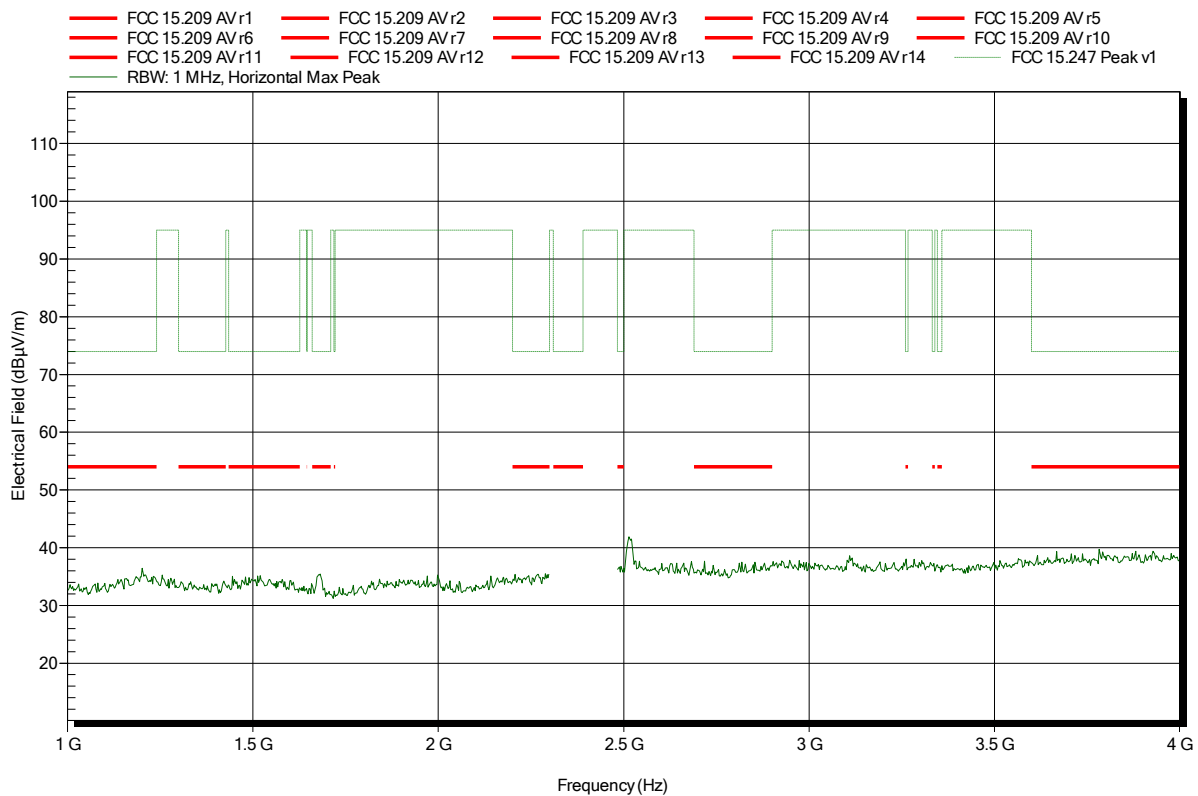


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; HT20; MCS0; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 33

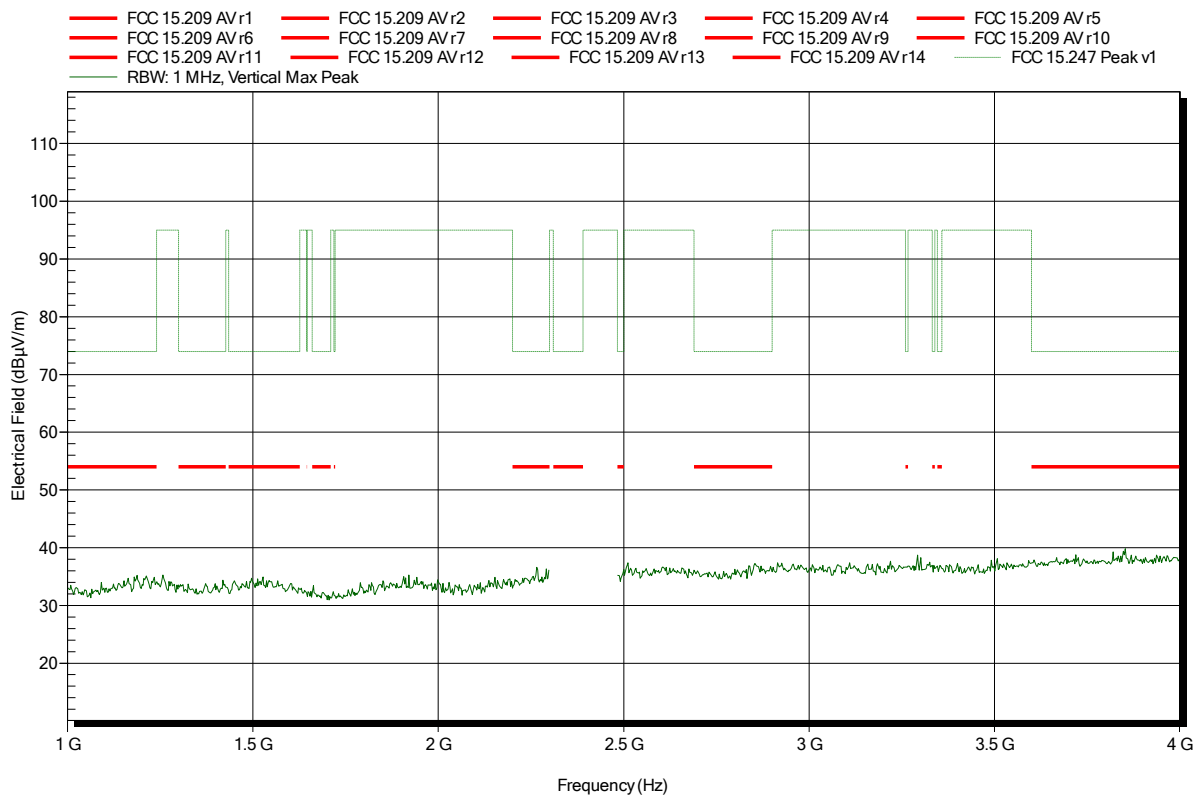


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; HT20; MCS0; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 34

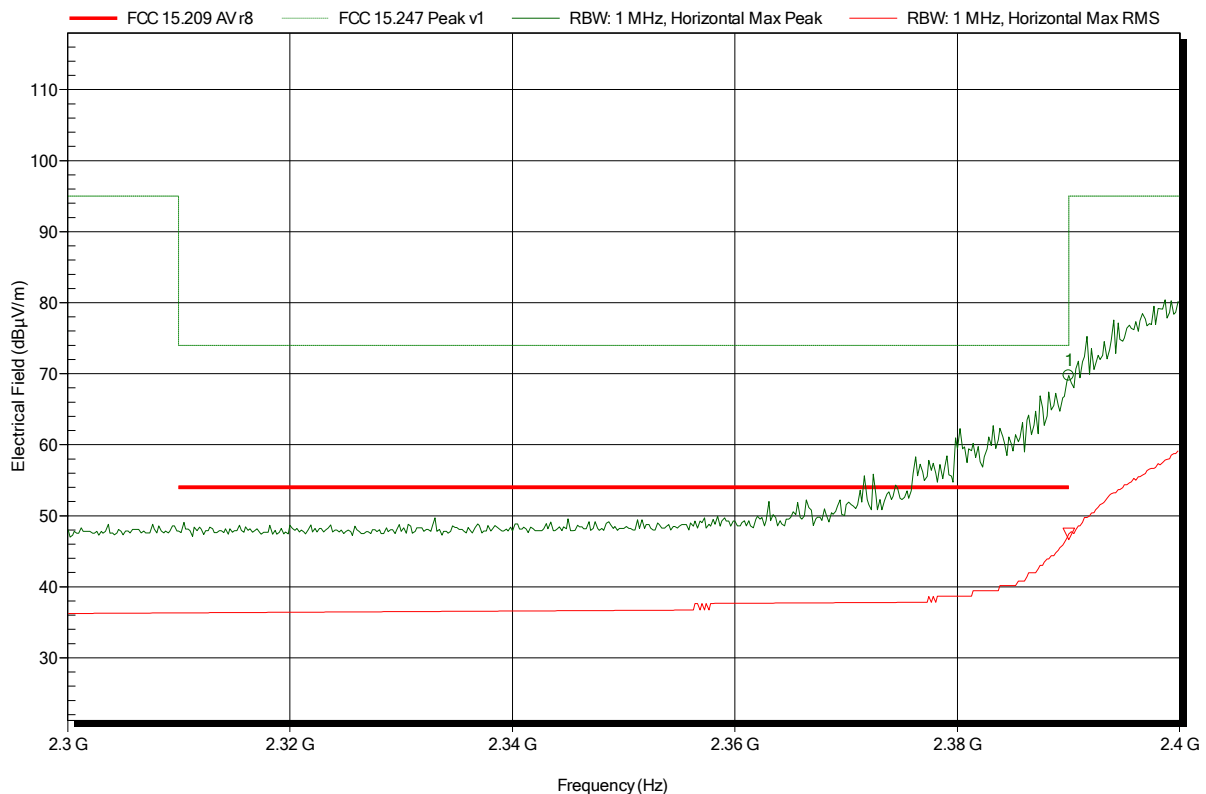


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT20; MCS0; 2412 MHz  
 Test Date: 2015-04-21  
 Note: lower bandedge

Index 39



Frequency 2.39 GHz	Peak 69.75 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -4.25 dB	Peak Status Pass
Frequency 2.39 GHz	RMS 47.47 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -6.53 dB	RMS Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

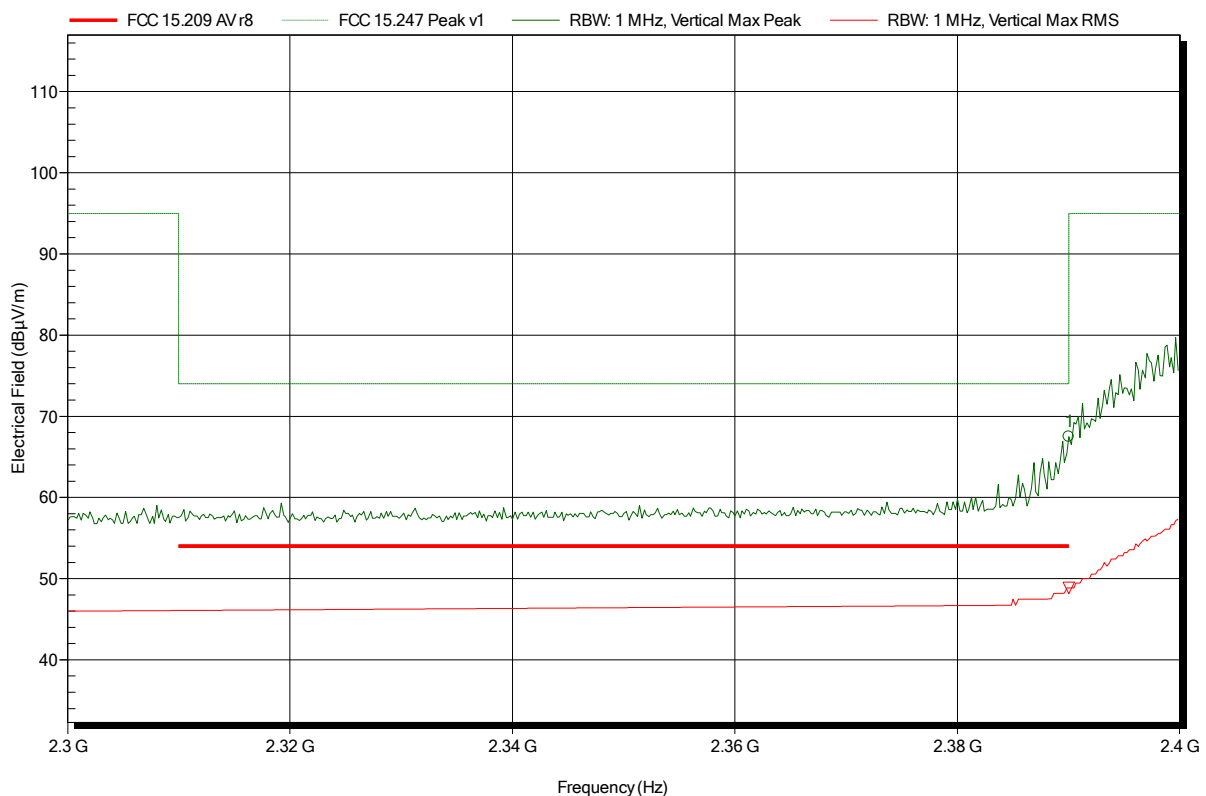
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT20; MCS0; 2412 MHz  
 Test Date: 2015-04-21  
 Note: lower bandedge

Index 41



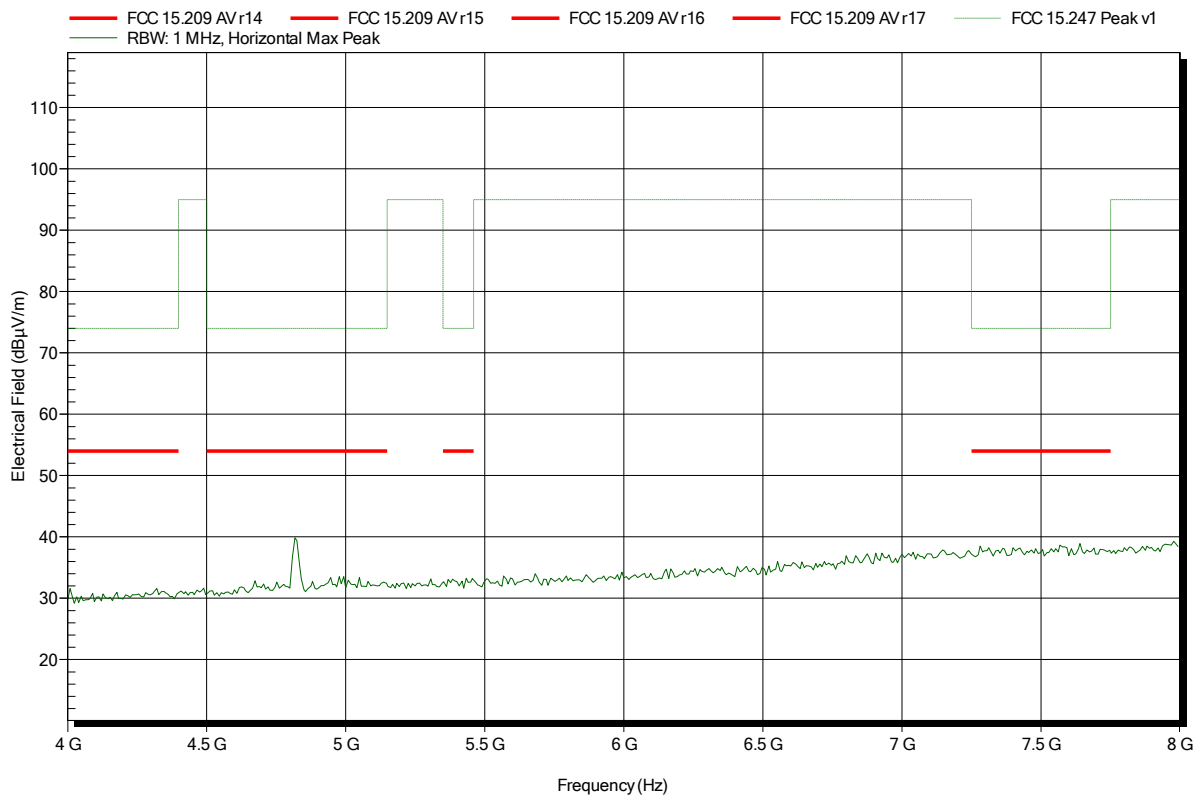
Frequency 2.39 GHz	Peak 67.51 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -6.49 dB	Peak Status Pass
Frequency 2.39 GHz	RMS 48.85 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -5.15 dB	RMS Status Pass

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT20; MCS0; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 40

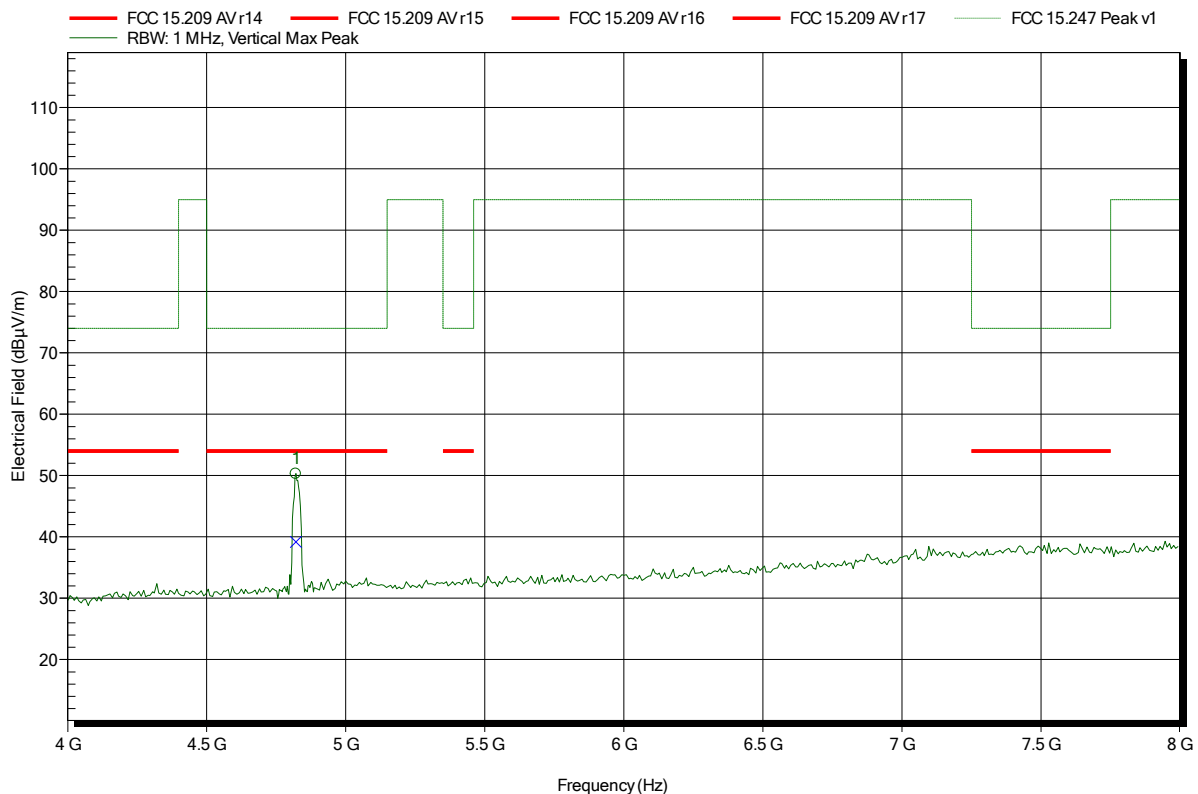


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT20; MCS0; 2412 MHz  
 Test Date: 2015-04-21  
 Note:

Index 42



Frequency 4.821 GHz	Peak 50.29 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -23.71 dB	Status Pass
Frequency 4.821 GHz	Average 39.2 dBμV/m	Average Limit 54 dBμV/m	Average Difference -14.8 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

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

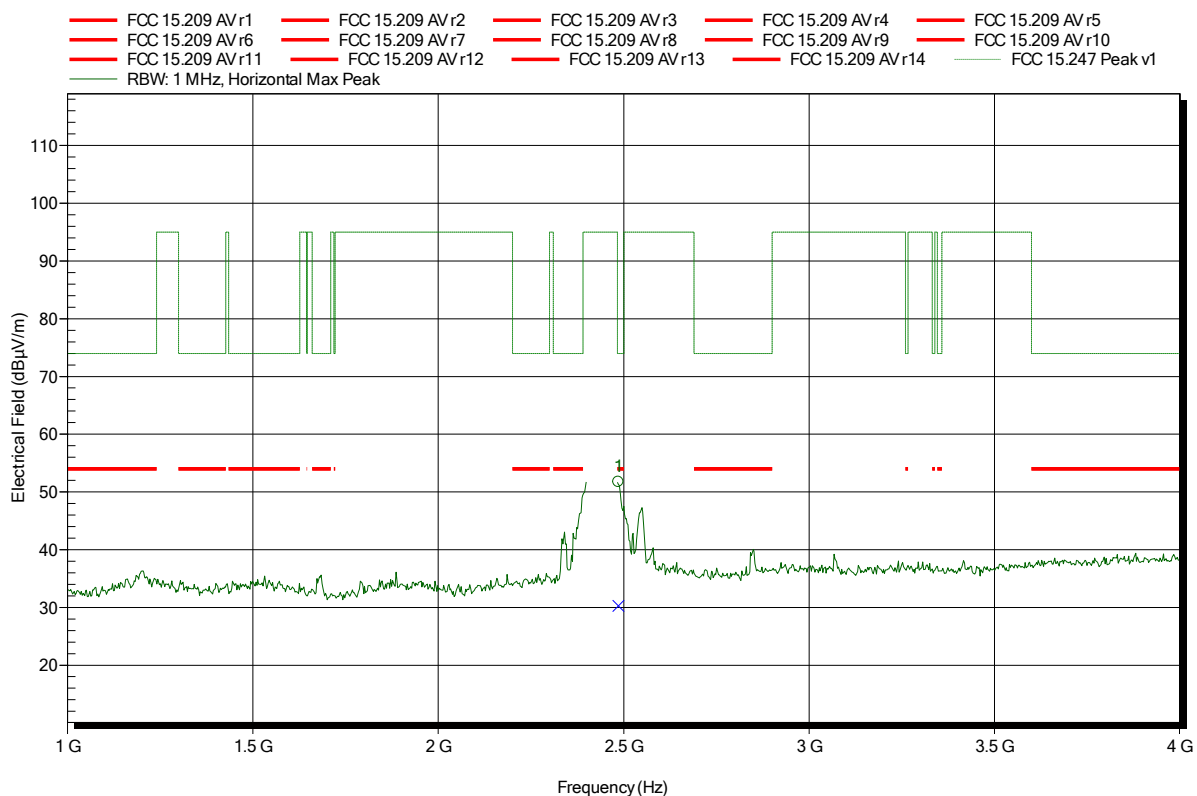


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; HT20; MCS0; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 35



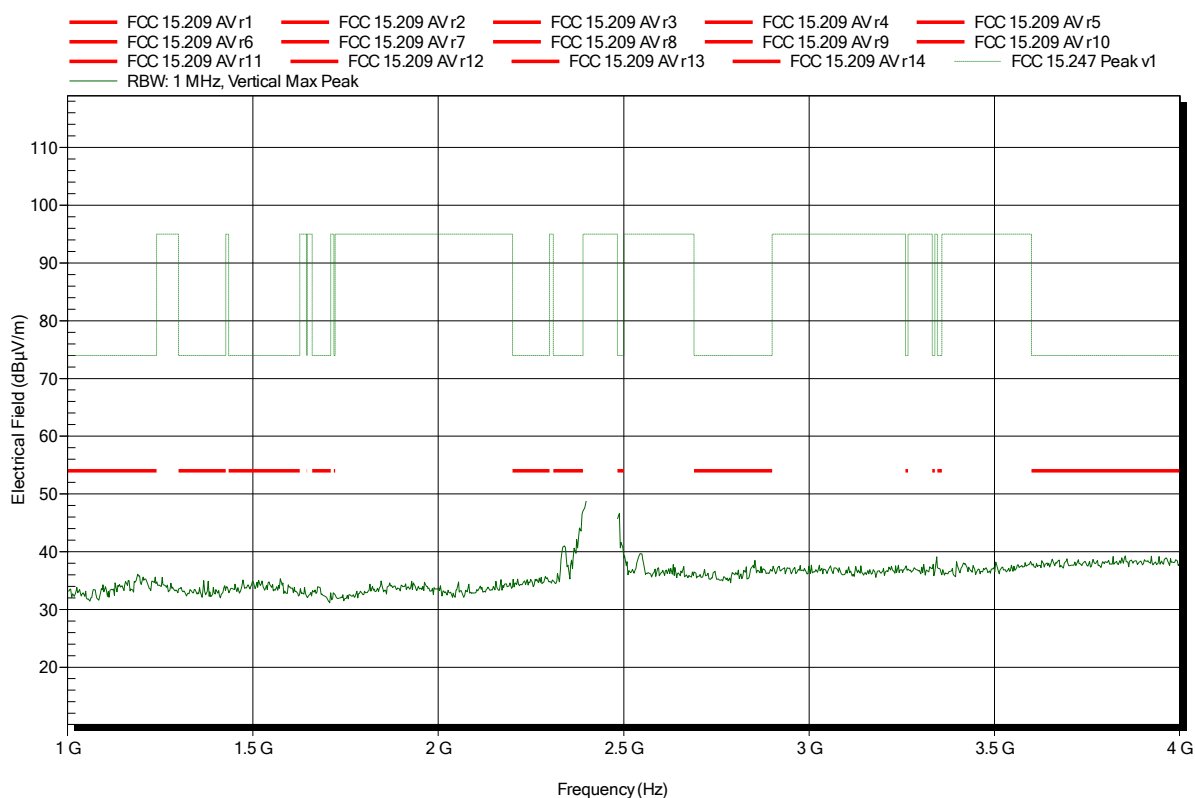
Frequency 2.4857 GHz	Peak 51.72 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -22.28 dB	Peak Status Pass
Frequency 2.4857 GHz	Average 30.28 dBμV/m	Average Limit 54 dBμV/m	Average Difference -23.72 dB	Average Status Pass

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; HT20; MCS0; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 36

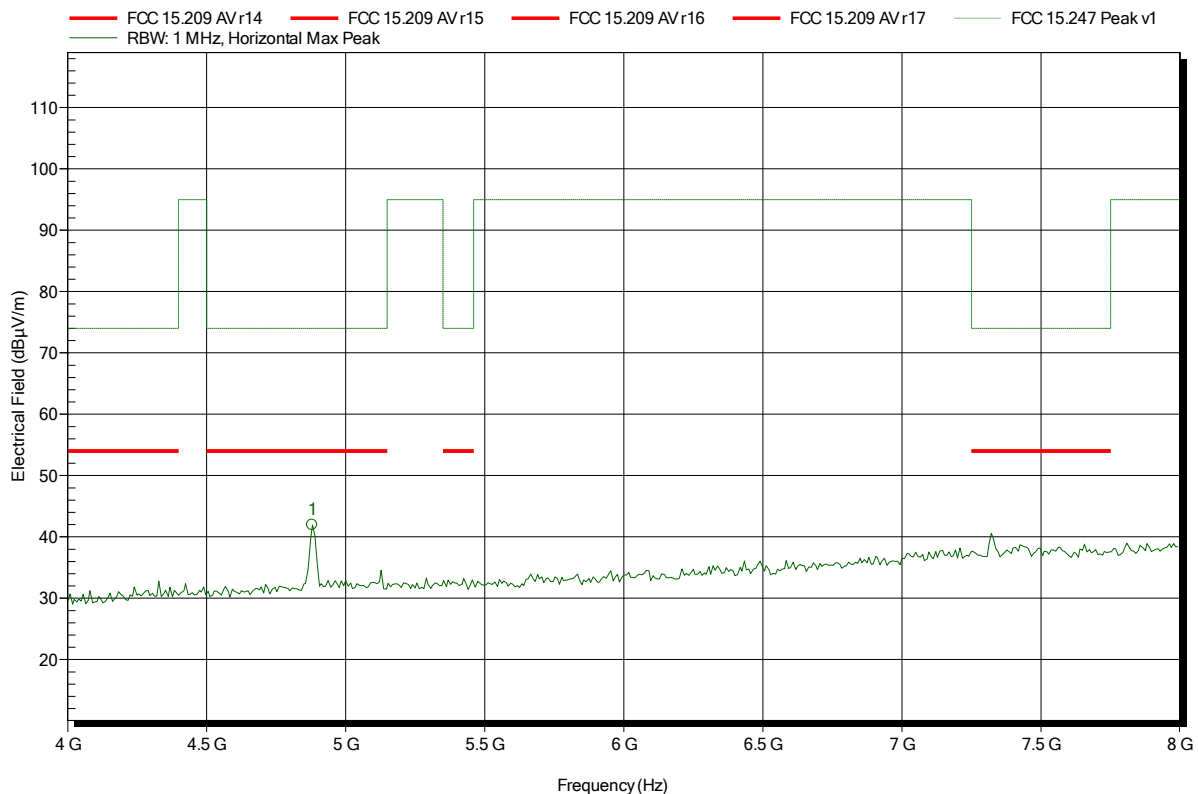


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT20; MCS0; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 43



Frequency	Peak	Peak Limit	Peak Difference	Status
4.88 GHz	41.97 dBµV/m	74 dBµV/m	-32.03 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

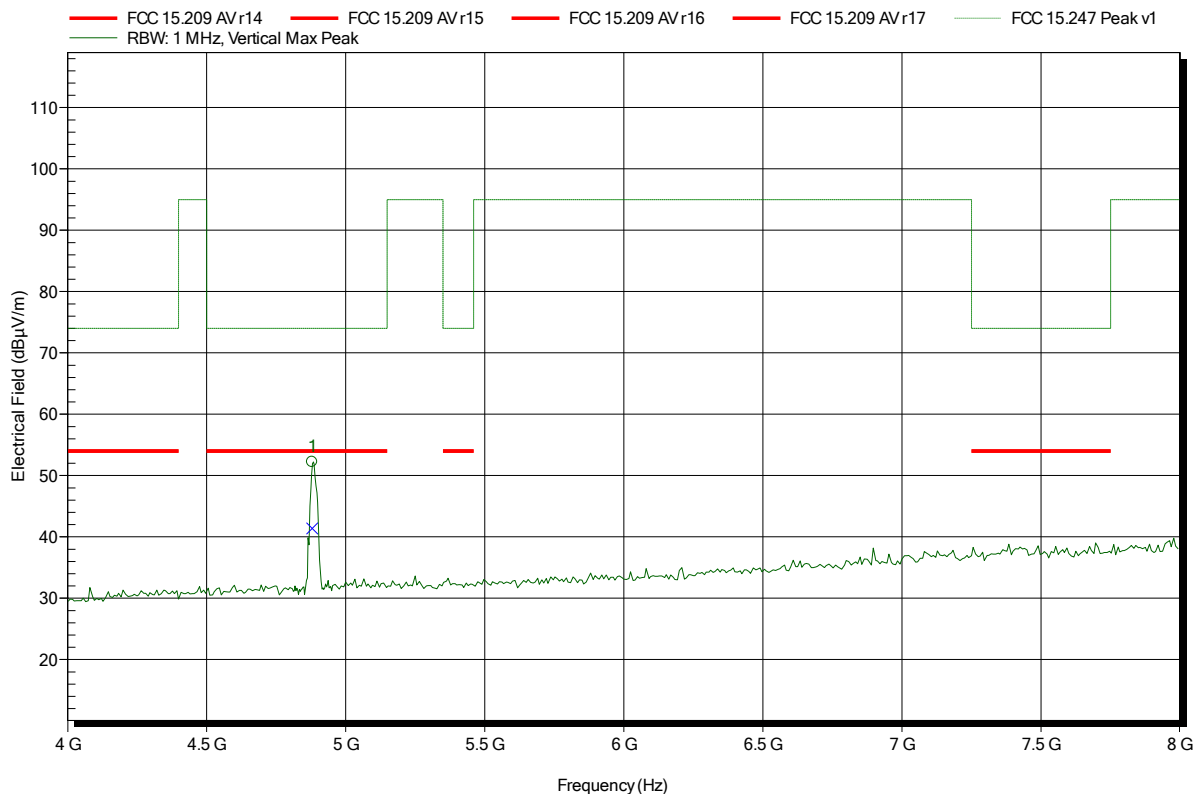
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT20; MCS0; 2437 MHz  
 Test Date: 2015-04-21  
 Note:

Index 44



Frequency 4.881 GHz	Peak 52.23 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -21.77 dB	Status Pass
Frequency 4.881 GHz	Average 41.38 dBµV/m	Average Limit 54 dBµV/m	Average Difference -12.62 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

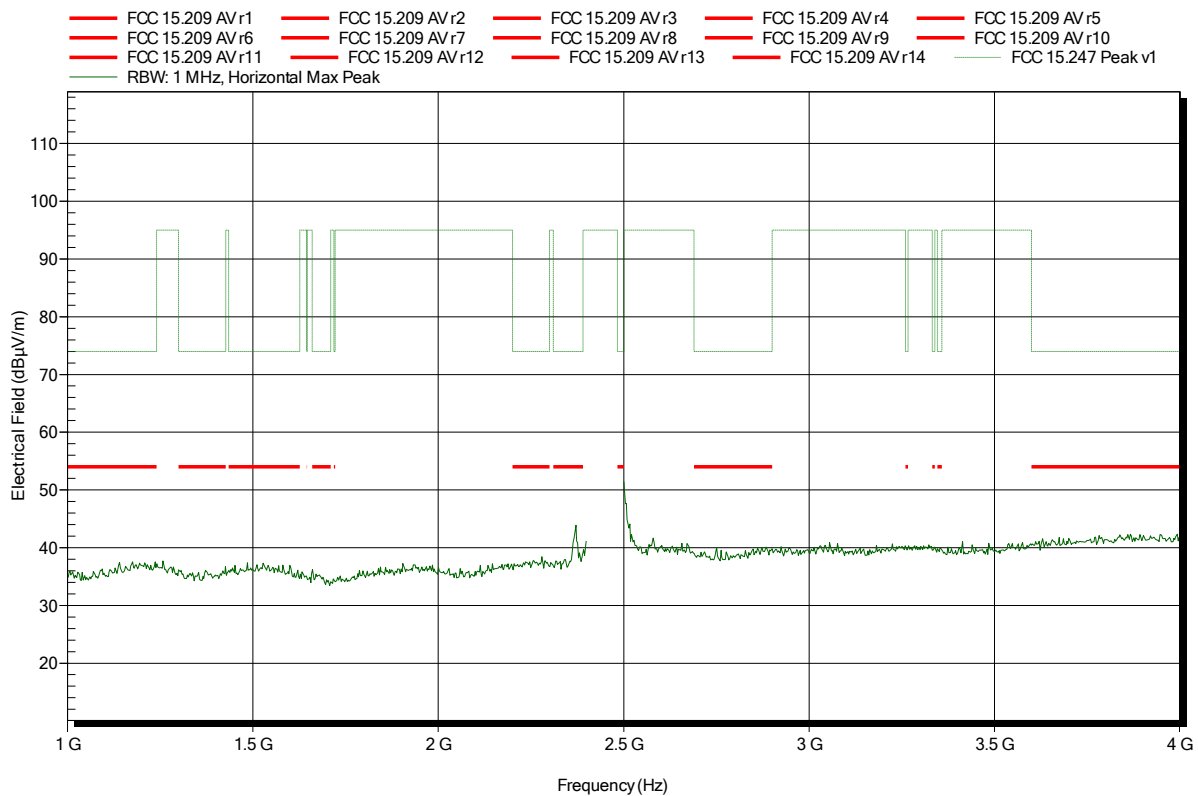
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; HT20; MCS0; 2462 MHz  
 Test Date: 2015-04-21  
 Note:

Index 37

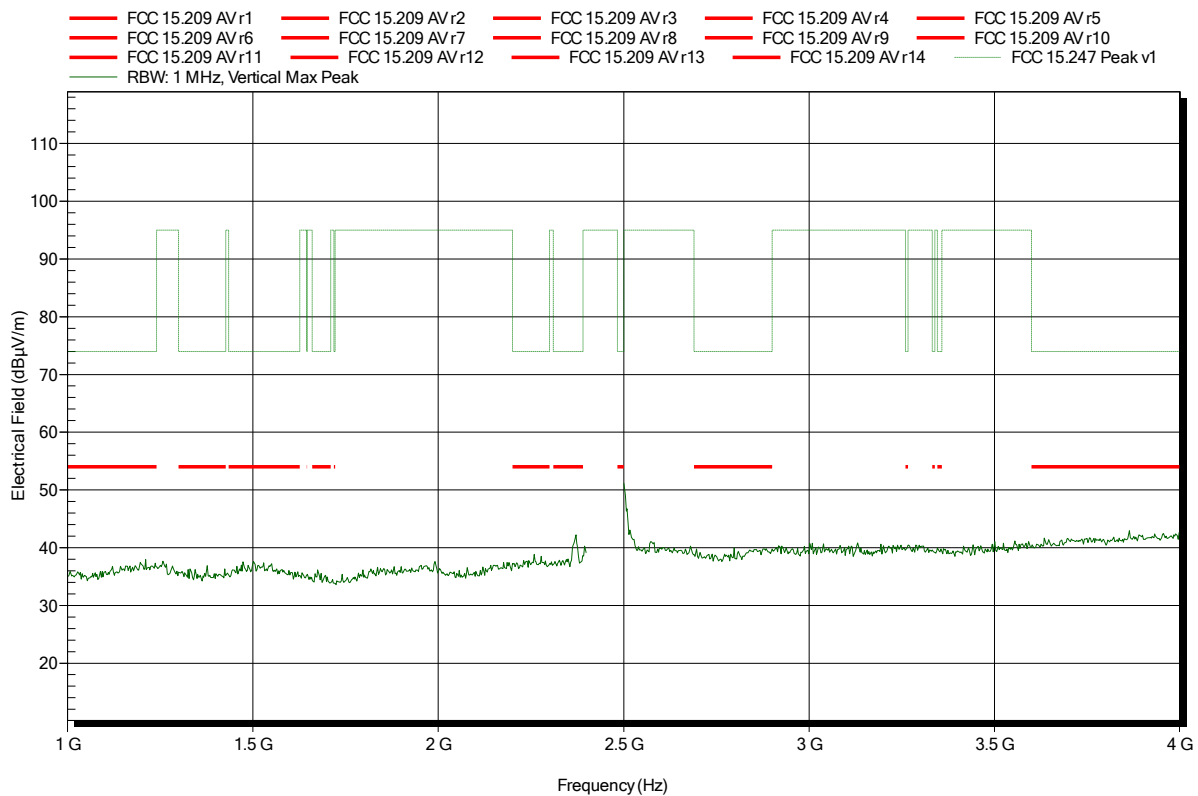


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; HT20; MCS0; 2462 MHz  
 Test Date: 2015-04-21  
 Note:

Index 38

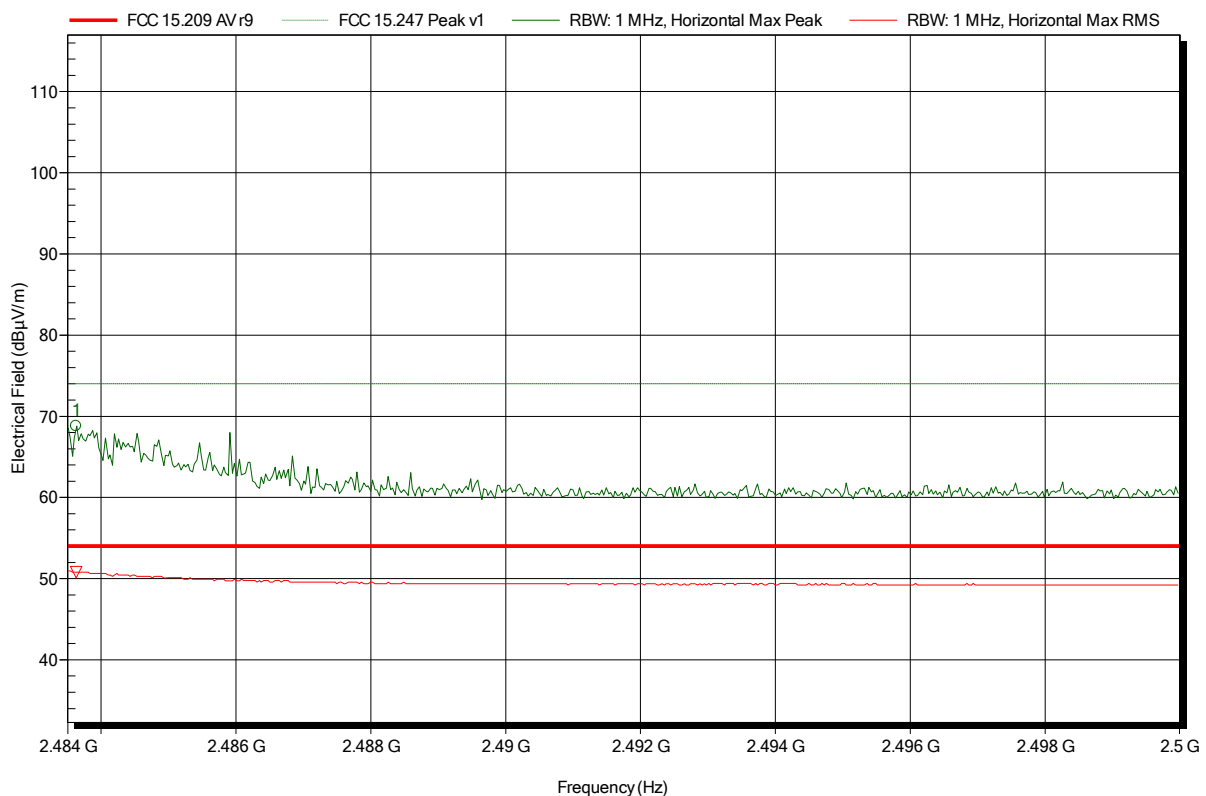


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT20; MCS0; 2462 MHz  
 Test Date: 2015-04-21  
 Note: upper bandedge

Index 45



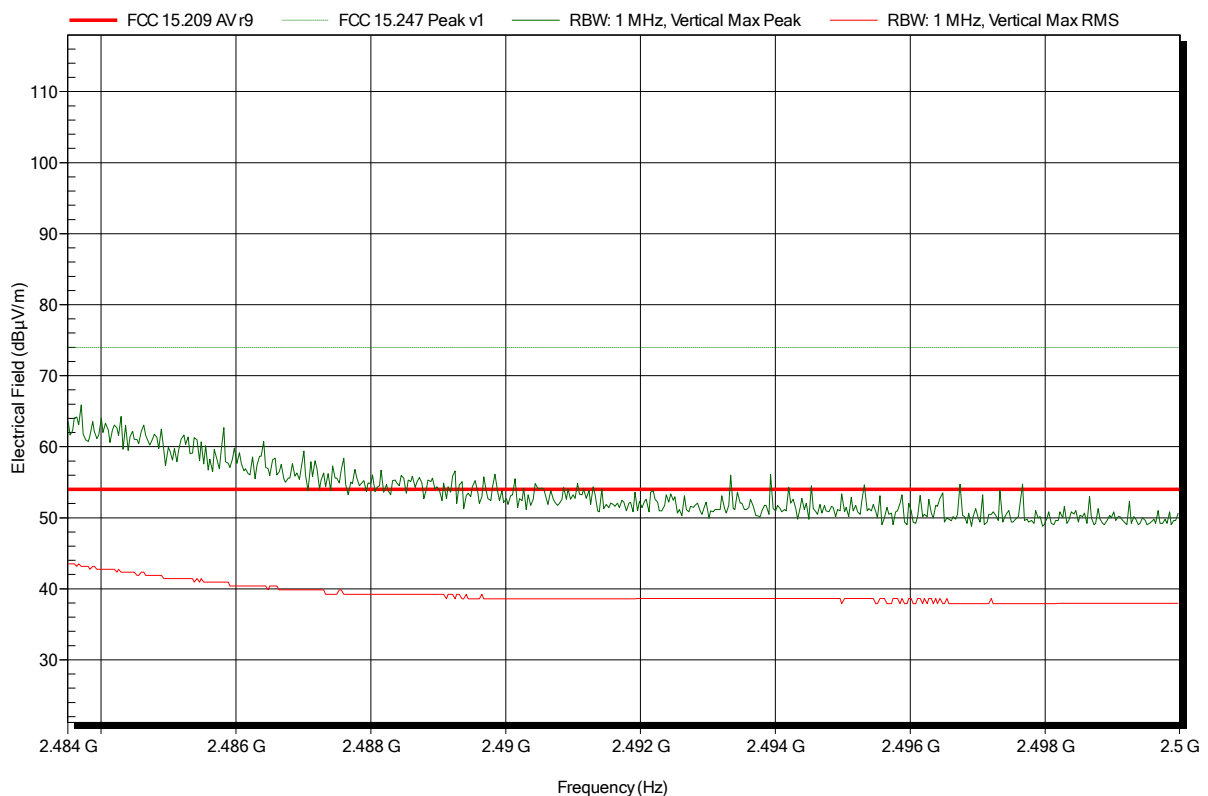
Frequency 2.4836 GHz	Peak 68.81 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -5.19 dB	Peak Status Pass
Frequency 2.4836 GHz	RMS 50.79 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -3.21 dB	RMS Status Pass

**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3.7 V DC lithium battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; HT20; MCS0; 2462 MHz
Test Date:	2015-04-21
Note:	upper bandedge

Index 47



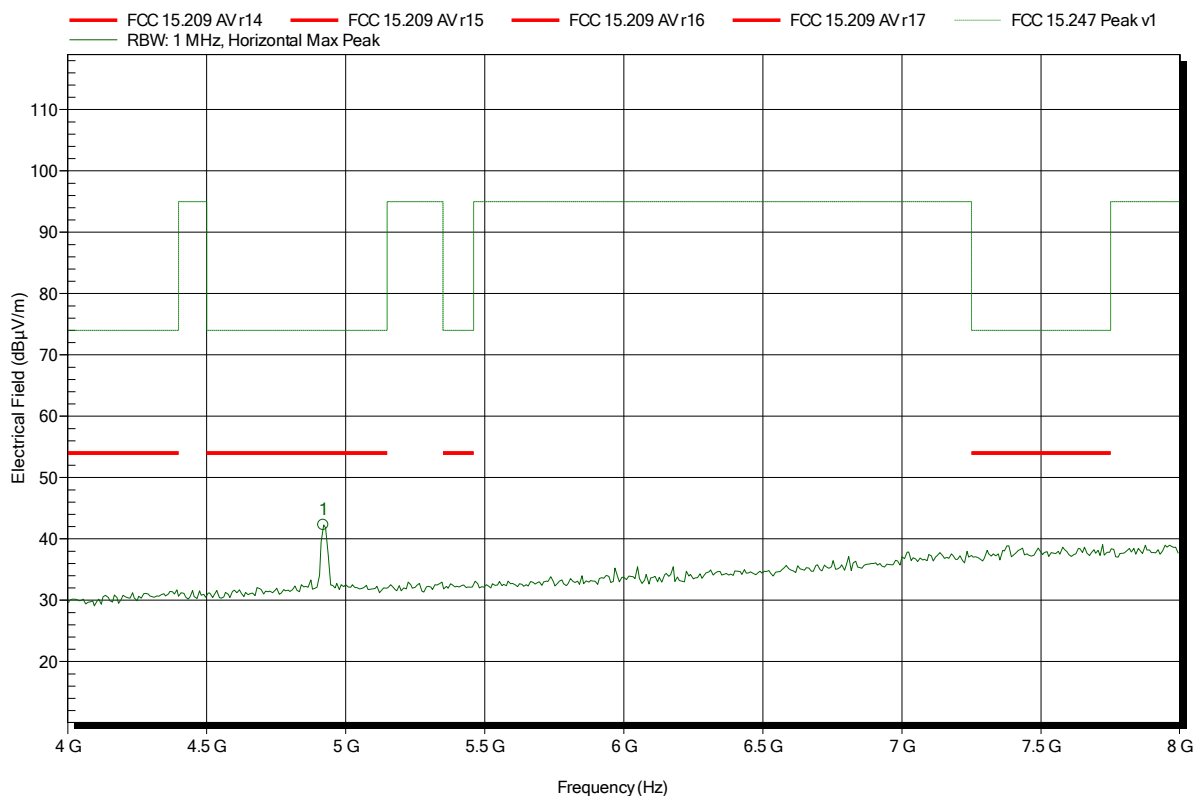


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT20; MCS0; 2462 MHz  
 Test Date: 2015-04-21  
 Note:

Index 46



Frequency	Peak	Peak Limit	Peak Difference	Status
4.92 GHz	42.28 dBμV/m	74 dBμV/m	-31.72 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

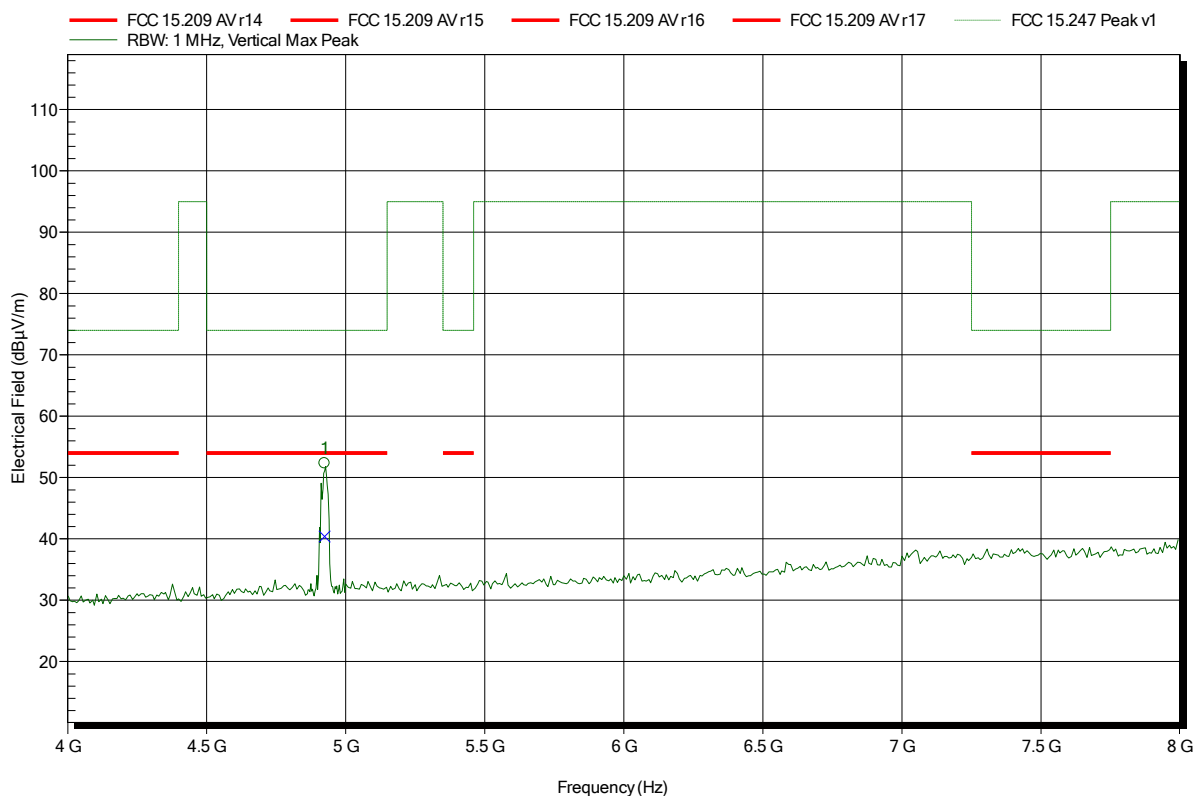
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT20; MCS0; 2462 MHz  
 Test Date: 2015-04-21  
 Note:

Index 48



Frequency 4.925 GHz	Peak 52.3 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -21.7 dB	Status Pass
Frequency 4.925 GHz	Average 40.4 dBμV/m	Average Limit 54 dBμV/m	Average Difference -13.6 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

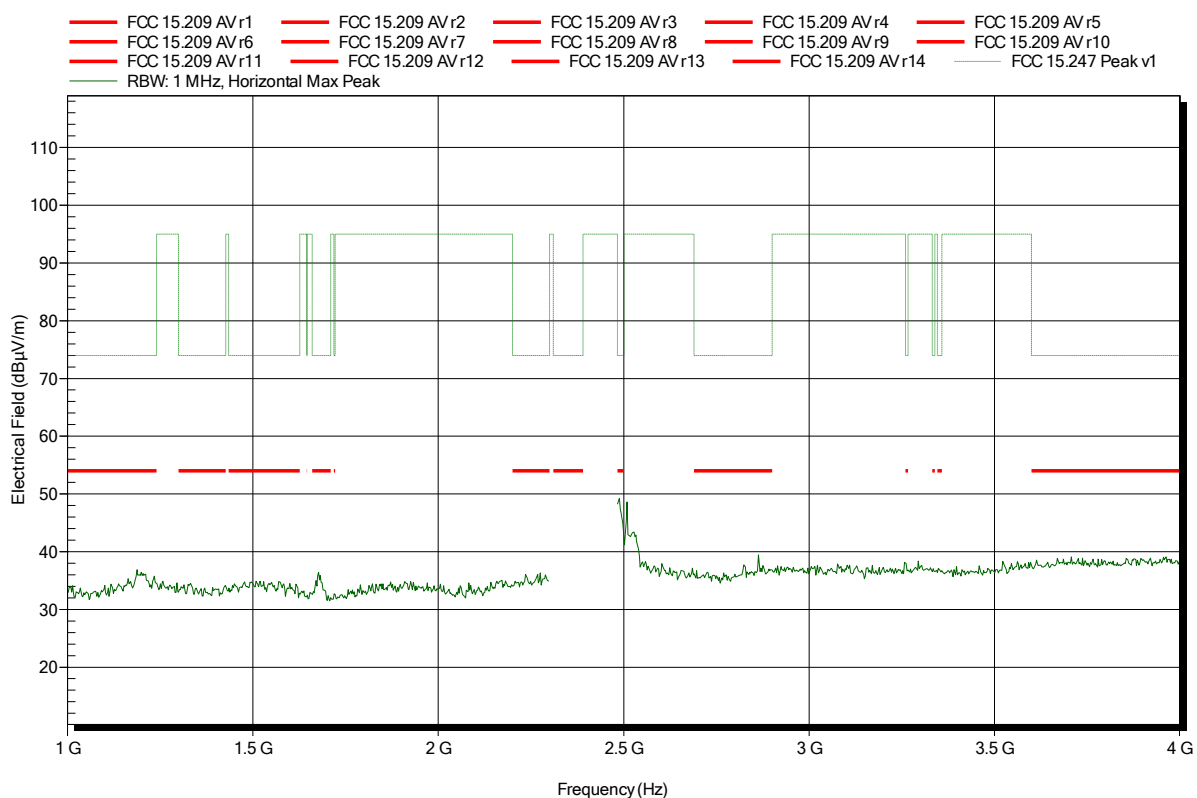
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; HT40; MCS0; 2422 MHz  
 Test Date: 2015-04-22  
 Note:

Index 64



Test Report No.: G0M-1503-4620-TFC247WF-V01

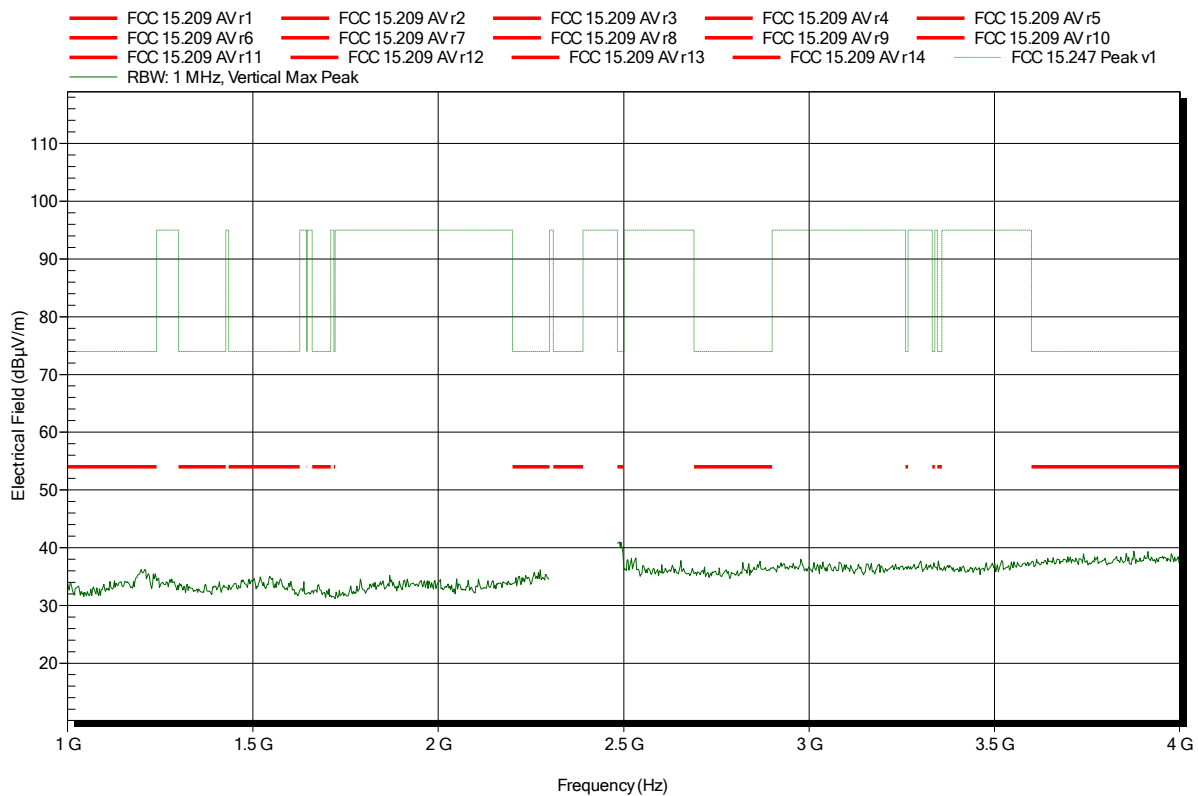
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; HT40; MCS0; 2422 MHz  
 Test Date: 2015-04-22  
 Note:

Index 65

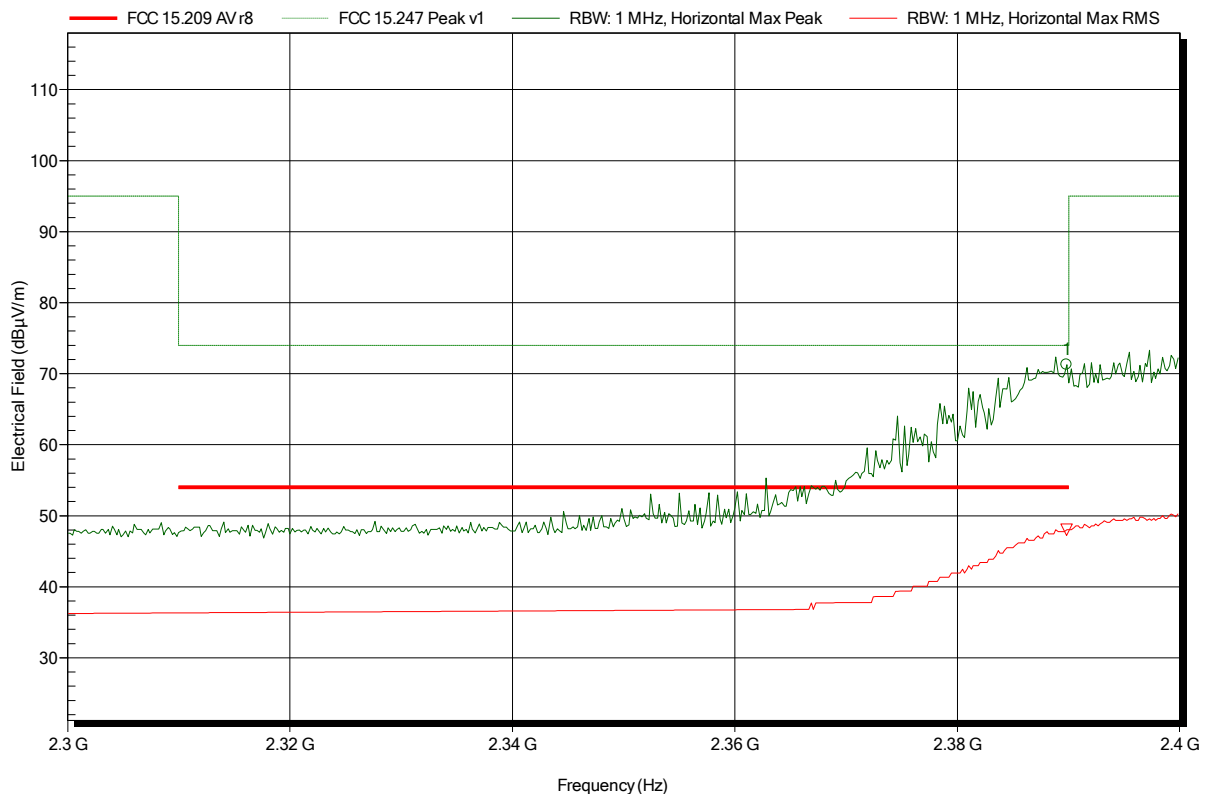


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT40; MCS0; 2422 MHz  
 Test Date: 2015-04-21  
 Note: lower bandedge

Index 49



Frequency 2.39 GHz	Peak 71.26 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -2.74 dB	Peak Status Pass
Frequency 2.39 GHz	RMS 48.03 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -5.97 dB	RMS Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

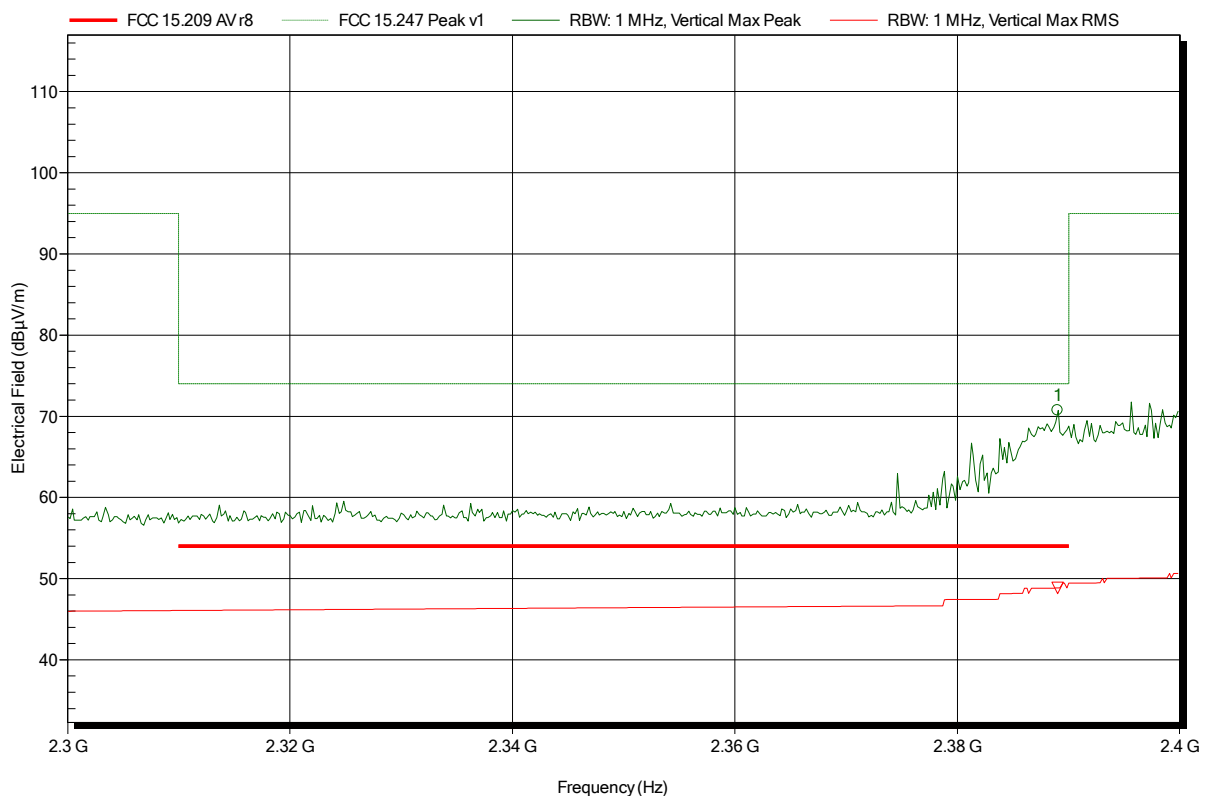
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT40; MCS0; 2422 MHz  
 Test Date: 2015-04-21  
 Note: lower bandedge

Index 51



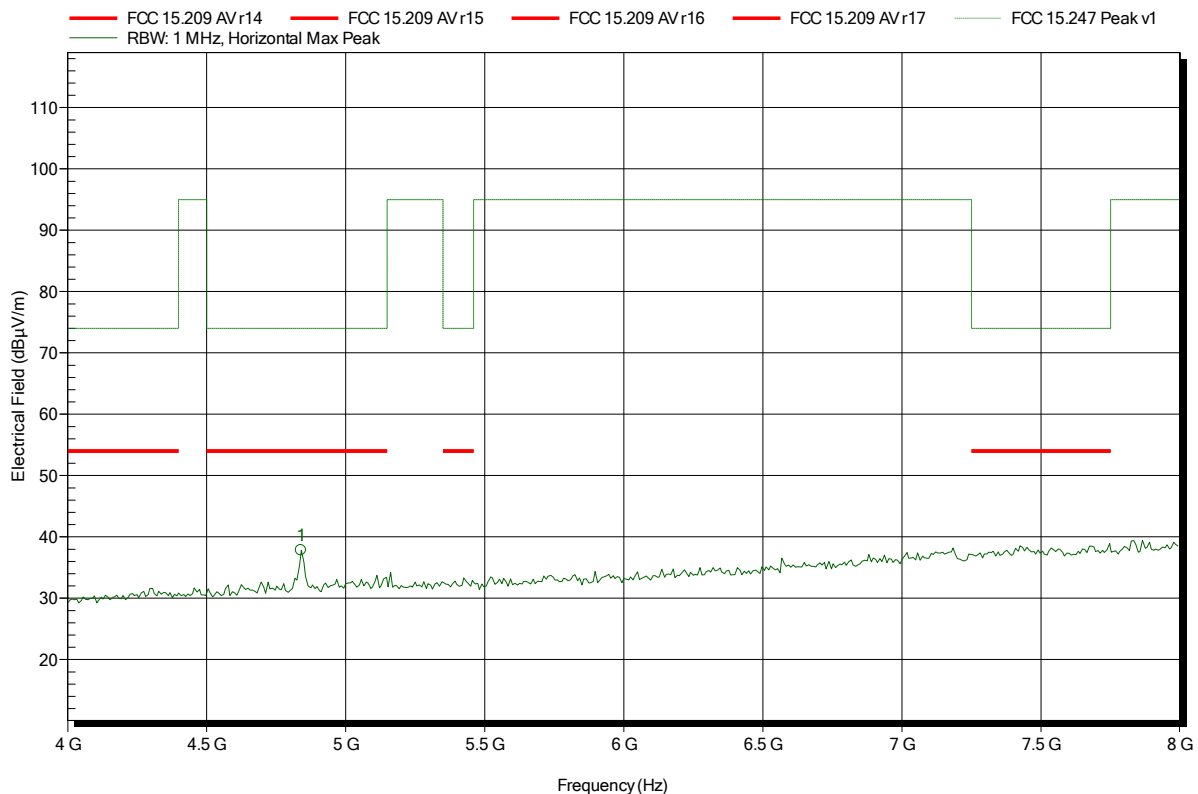
Frequency 2.389 GHz	Peak 70.73 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -3.27 dB	Peak Status Pass
Frequency 2.389 GHz	RMS 48.84 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -5.16 dB	RMS Status Pass

**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT40; MCS0; 2422 MHz  
 Test Date: 2015-04-21  
 Note:

Index 50



Frequency	Peak	Peak Limit	Peak Difference	Status
4.84 GHz	37.85 dBµV/m	74 dBµV/m	-36.15 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

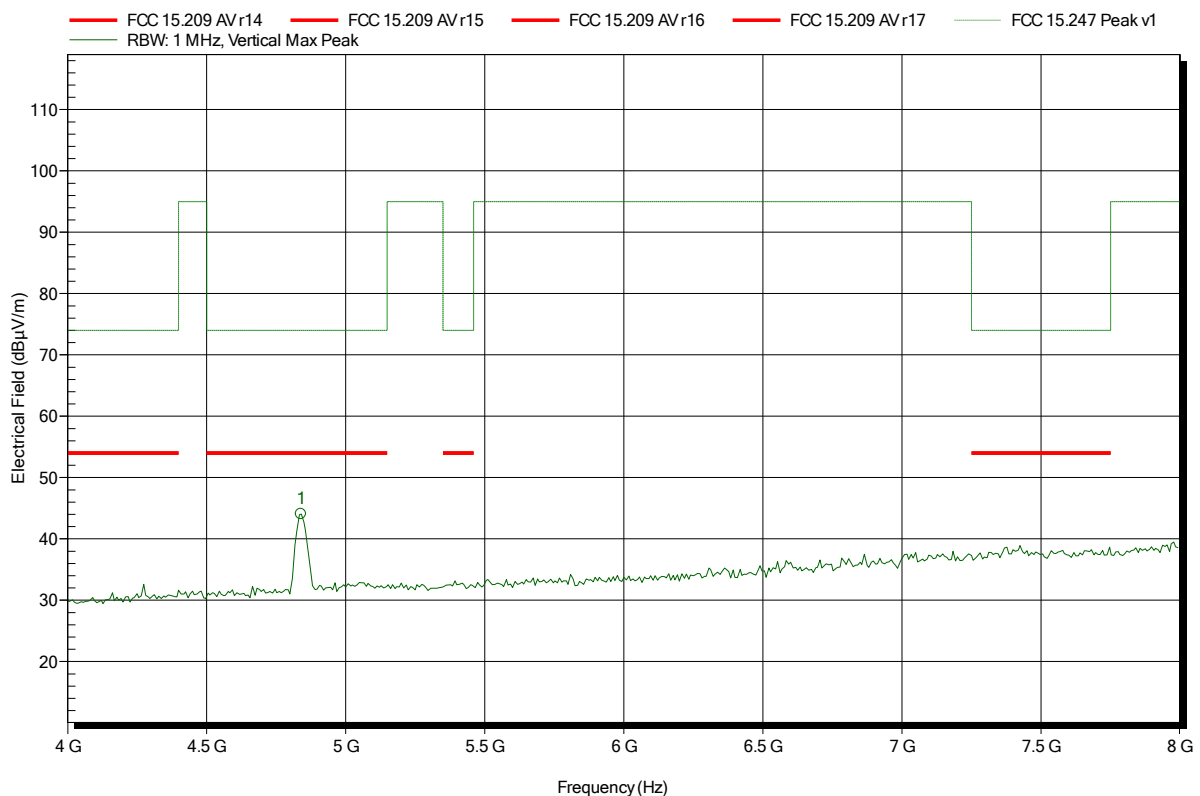
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT40; MCS0; 2422 MHz  
 Test Date: 2015-04-21  
 Note:

Index 52



Frequency	Peak	Peak Limit	Peak Difference	Status
4.84 GHz	44.05 dBμV/m	74 dBμV/m	-29.95 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

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

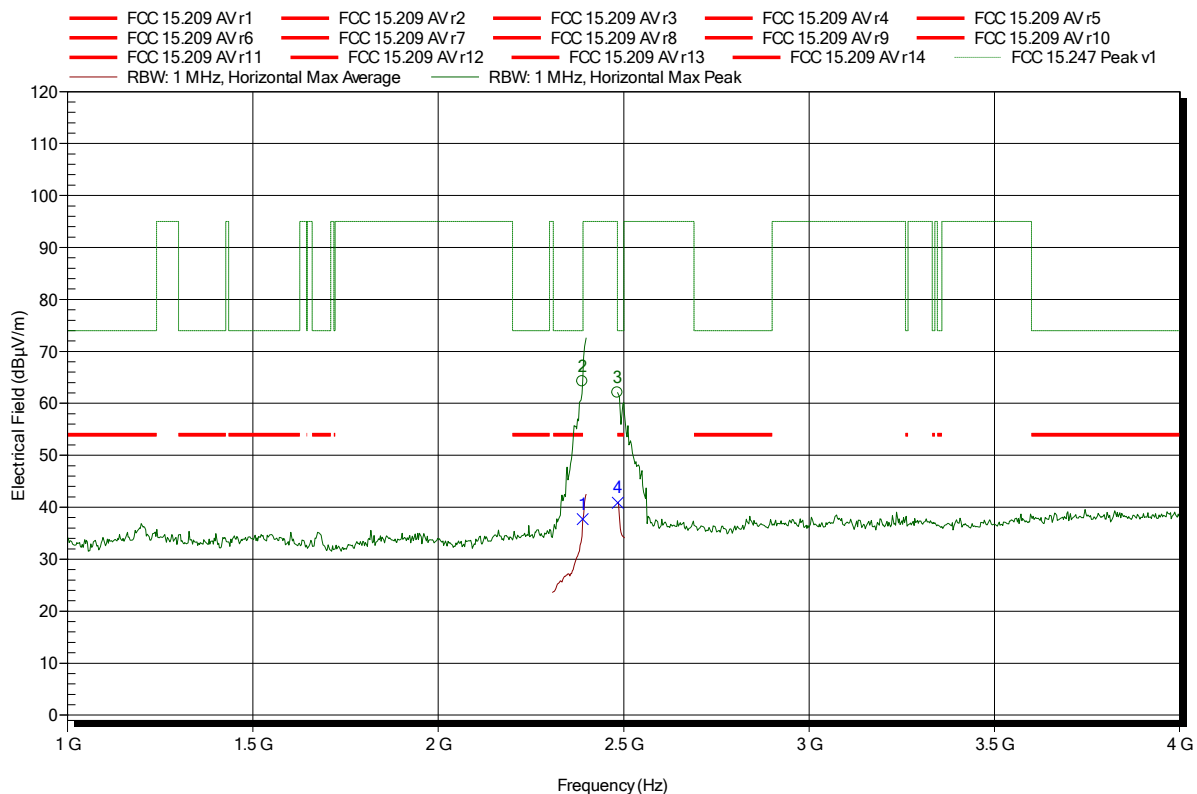


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; HT40; MCS0; 2437 MHz  
 Test Date: 2015-04-22  
 Note:

Index 62



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.3888 GHz	64.22 dBμV/m	74 dBμV/m	-9.78 dB	Pass
2.4835 GHz	62.09 dBμV/m	74 dBμV/m	-11.91 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
2.3899 GHz	37.7 dBμV/m	54 dBμV/m	-16.3 dB	Pass
2.4838 GHz	40.85 dBμV/m	54 dBμV/m	-13.15 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

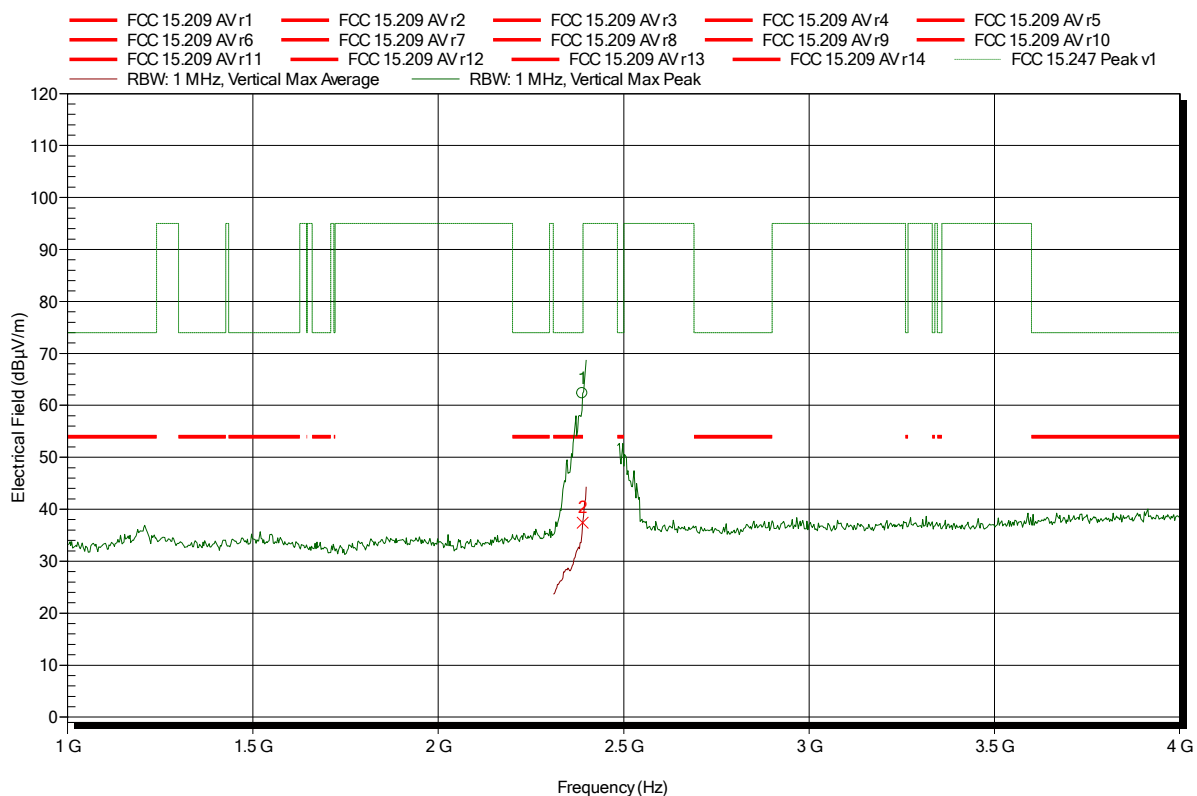
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; HT40; MCS0; 2437 MHz  
 Test Date: 2015-04-22  
 Note:

Index 63



Frequency 2.3888 GHz	Peak 62.28 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -11.72 dB	Peak Status Pass
Frequency 2.3894 GHz	Average 37.4 dBμV/m	Average Limit 54 dBμV/m	Average Difference -16.6 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

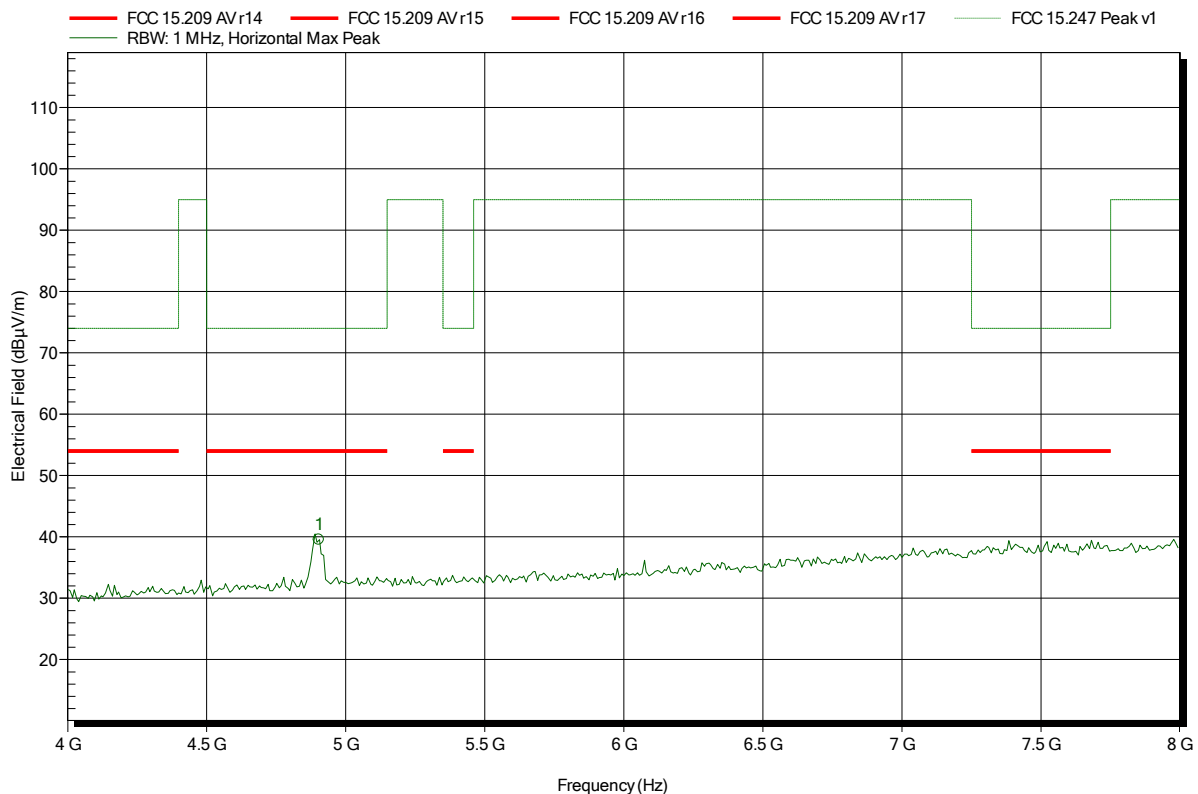
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT40; MCS0; 2437 MHz  
 Test Date: 2015-04-22  
 Note:

Index 53



Frequency	Peak	Peak Limit	Peak Difference	Status
4.904 GHz	39.57 dBµV/m	74 dBµV/m	-34.43 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

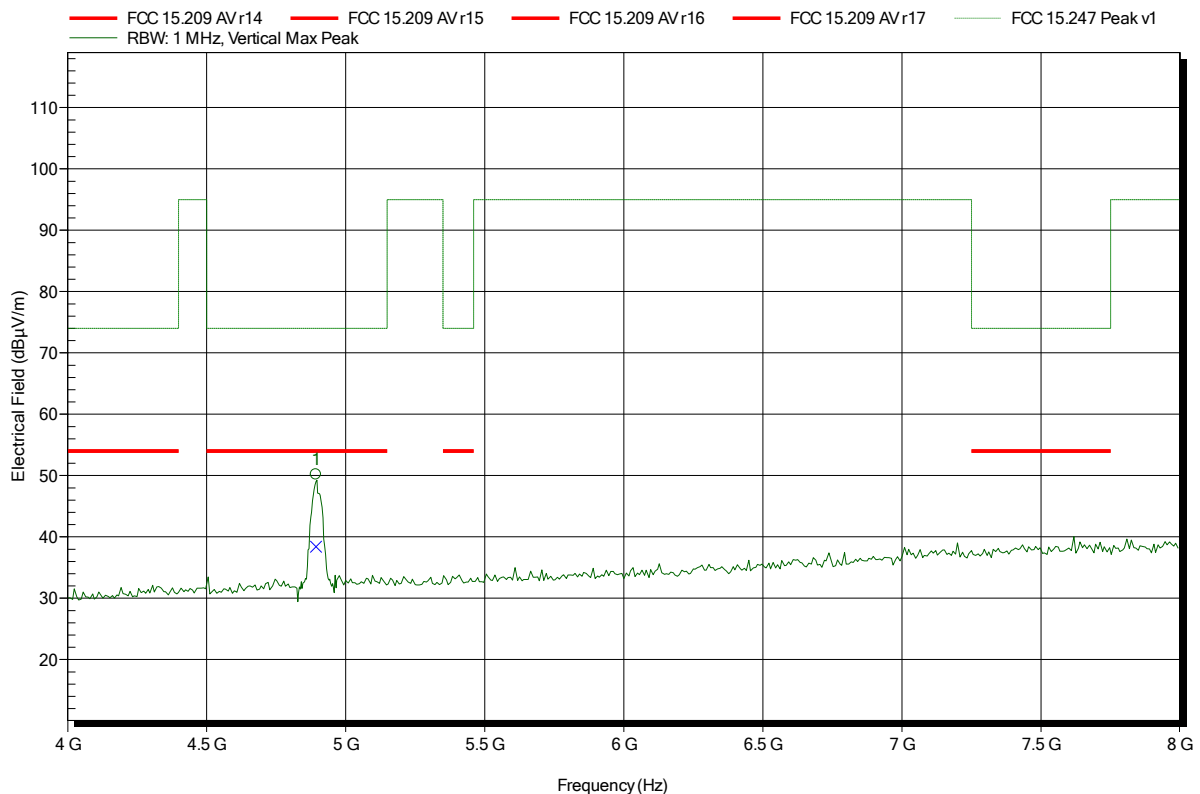
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT40; MCS0; 2437 MHz  
 Test Date: 2015-04-22  
 Note:

Index 54



Frequency 4.894 GHz	Peak 50.16 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -23.84 dB	Status Pass
Frequency 4.894 GHz	Average 38.4 dBµV/m	Average Limit 54 dBµV/m	Average Difference -15.6 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

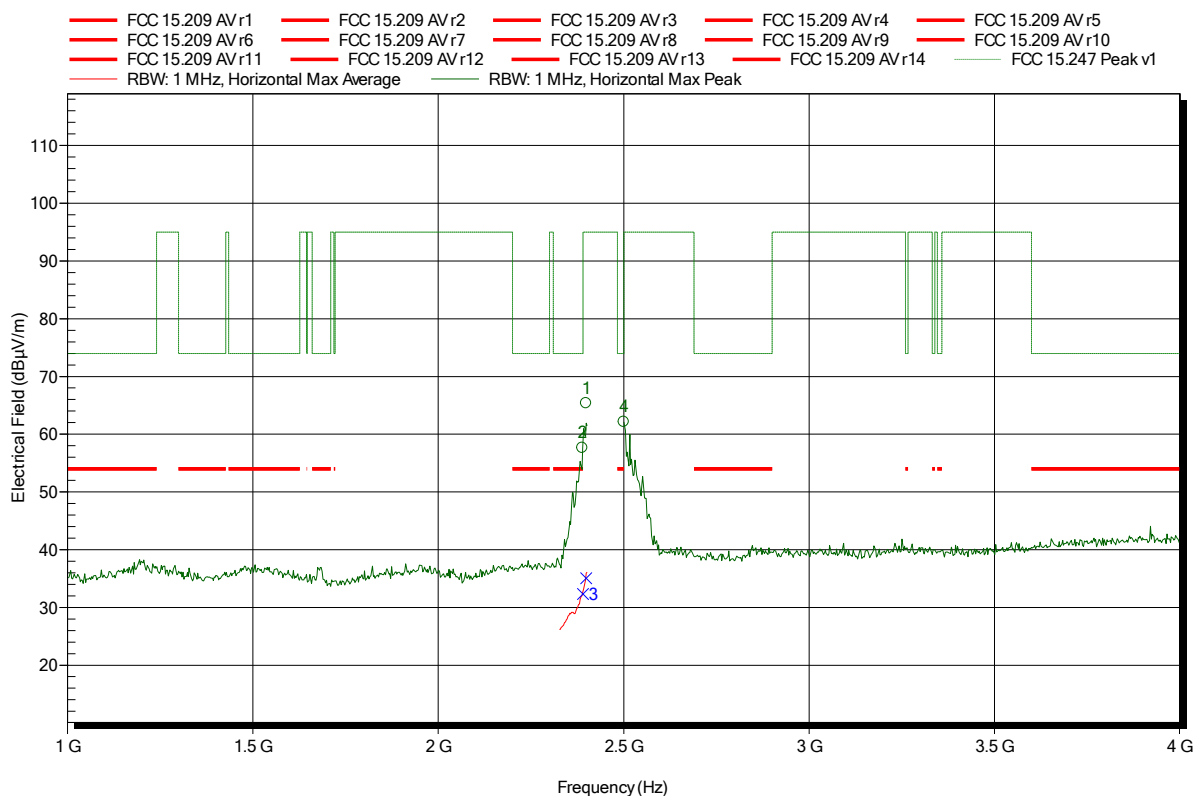
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; HT40; MCS0; 2452 MHz  
 Test Date: 2015-04-22  
 Note:

Index 60



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.389 GHz	57.63 dBμV/m	74 dBμV/m	-16.37 dB	Pass
2.399 GHz	65.34 dBμV/m	95 dBμV/m	-29.66 dB	Pass
2.501 GHz	62.16 dBμV/m	95 dBμV/m	-32.84 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
2.39 GHz	32.31 dBμV/m	54 dBμV/m	-21.69 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

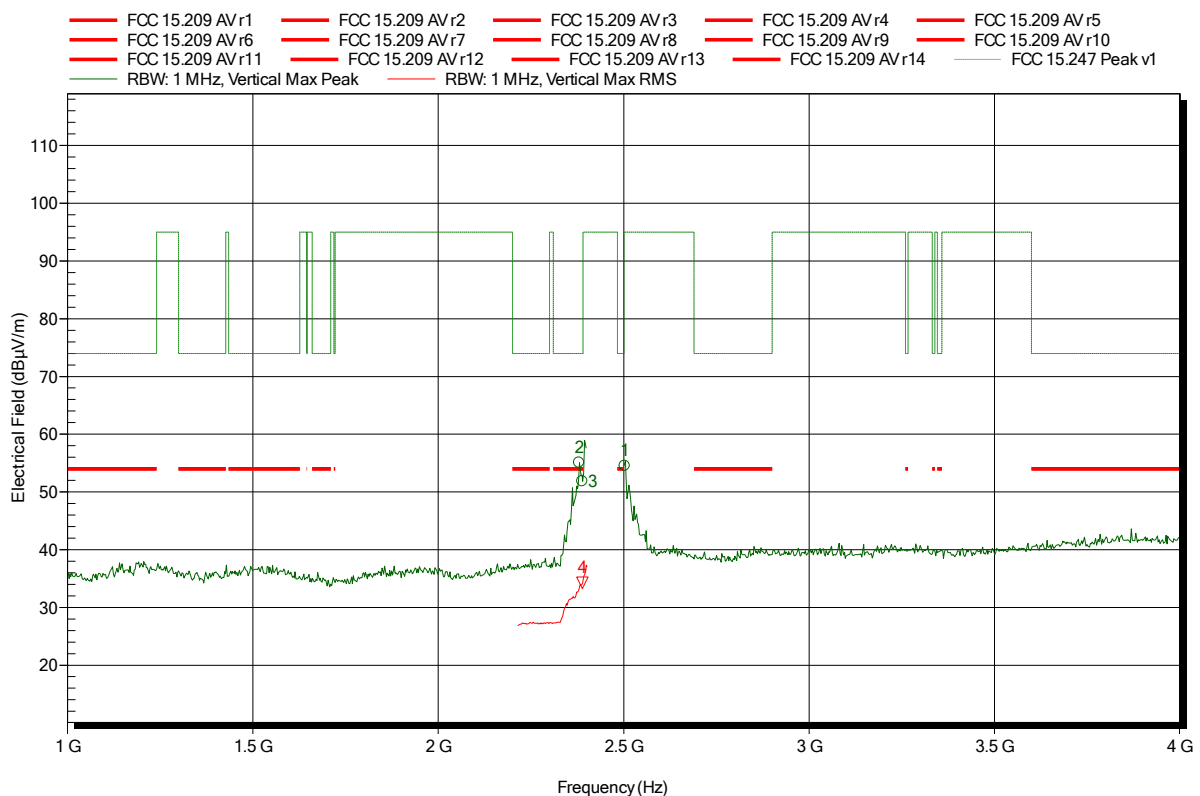
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; HT40; MCS0; 2452 MHz  
 Test Date: 2015-04-22  
 Note:

Index 61



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.38 GHz	55.08 dBµV/m	74 dBµV/m	-18.92 dB	Pass
2.389 GHz	51.85 dBµV/m	74 dBµV/m	-22.15 dB	Pass
2.503 GHz	54.54 dBµV/m	95 dBµV/m	-40.46 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

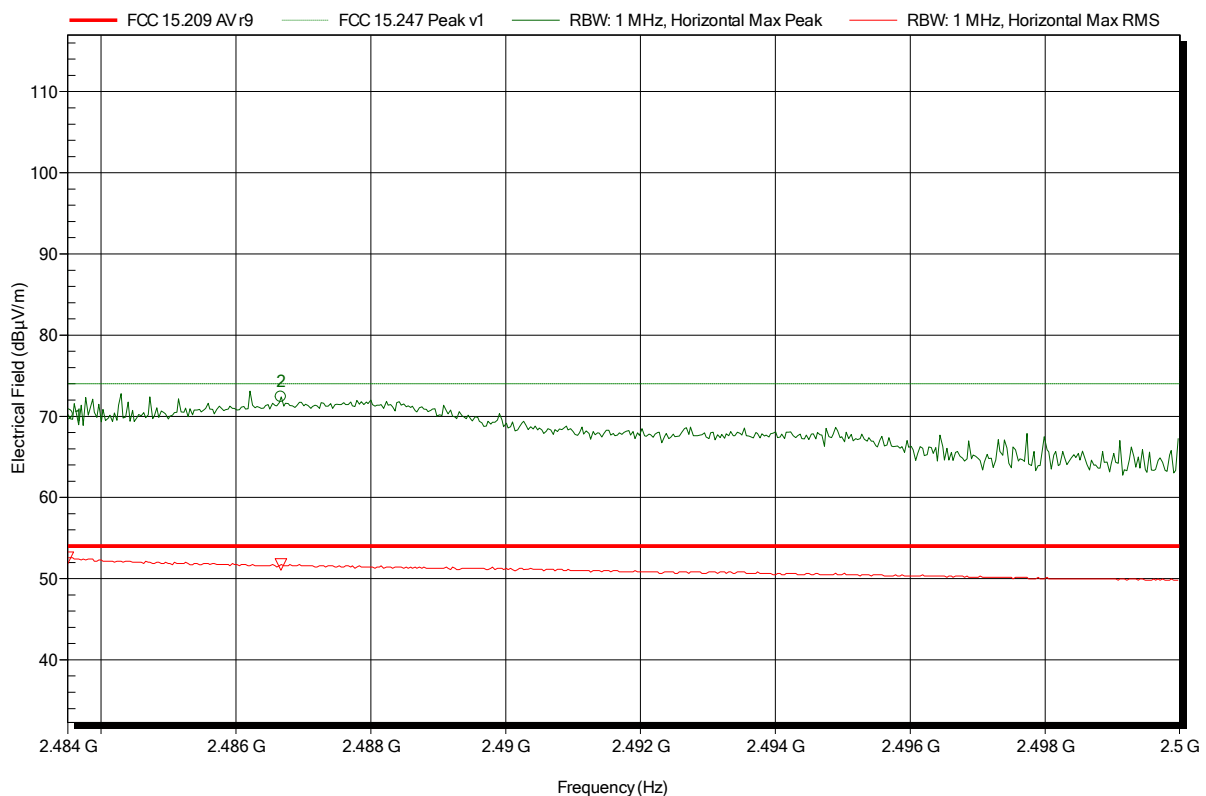
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Treffke  
Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
Antenna: Schwarzbeck BBHA 9120D, Horizontal  
Measurement distance: 1 m converted to 3m  
Mode: TX; HT40; MCS0; 2452 MHz  
Test Date: 2015-04-22  
Note: upper bandedge

Index 56



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4835 GHz	70.24 dBµV/m	74 dBµV/m	-3.76 dB	Pass
2.4867 GHz	72.38 dBµV/m	74 dBµV/m	-1.62 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4835 GHz	52.56 dBµV/m	54 dBµV/m	-1.44 dB	Pass
2.4867 GHz	51.73 dBµV/m	54 dBµV/m	-2.27 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

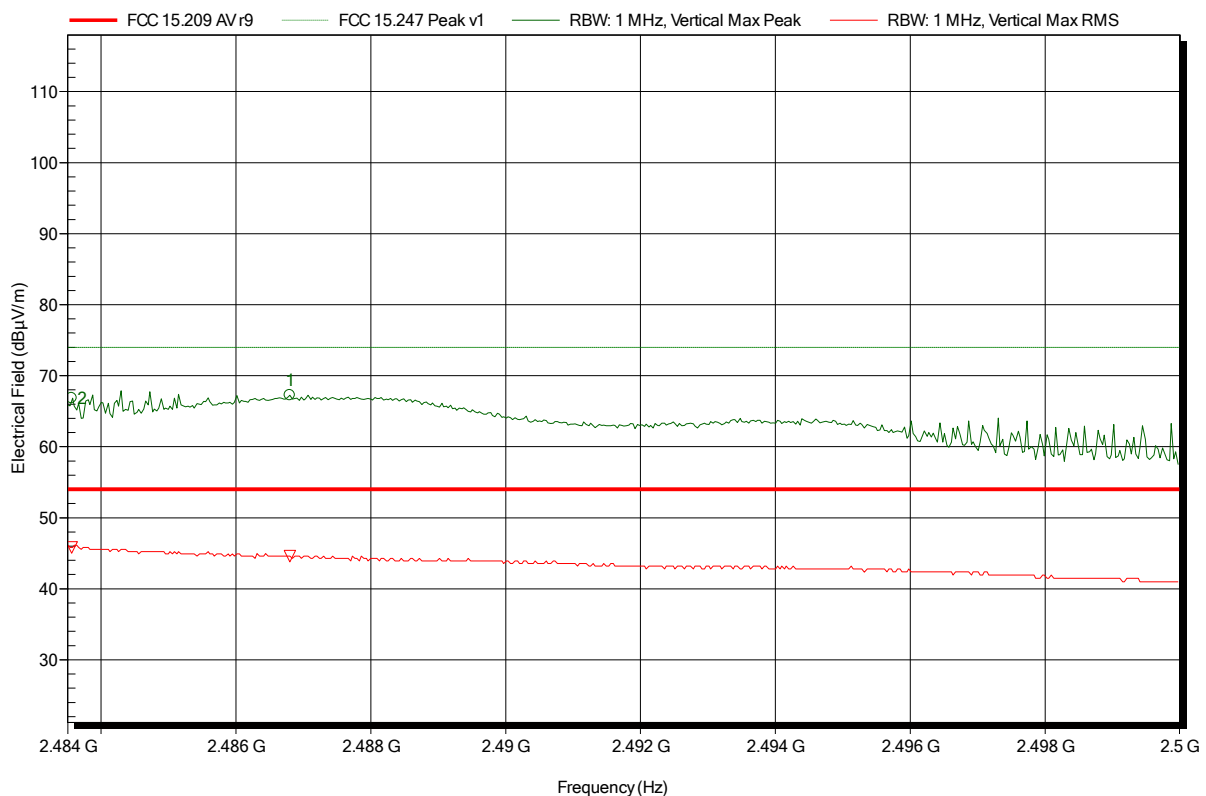
Eurofins Product Service GmbH  
Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
EUT Name: Wireless camera (Standard version)  
Model: OrbitX ST  
Test Site: Eurofins Product Service GmbH  
Operator: Mr. Treffke  
Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
Antenna: Schwarzbeck BBHA 9120D, Vertical  
Measurement distance: 1 m converted to 3m  
Mode: TX; HT40; MCS0; 2452 MHz  
Test Date: 2015-04-22  
Note: upper bandedge

Index 58



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4836 GHz	66.85 dBµV/m	74 dBµV/m	-7.15 dB	Pass
2.4868 GHz	67.24 dBµV/m	74 dBµV/m	-6.76 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4836 GHz	45.84 dBµV/m	54 dBµV/m	-8.16 dB	Pass
2.4868 GHz	44.61 dBµV/m	54 dBµV/m	-9.39 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

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

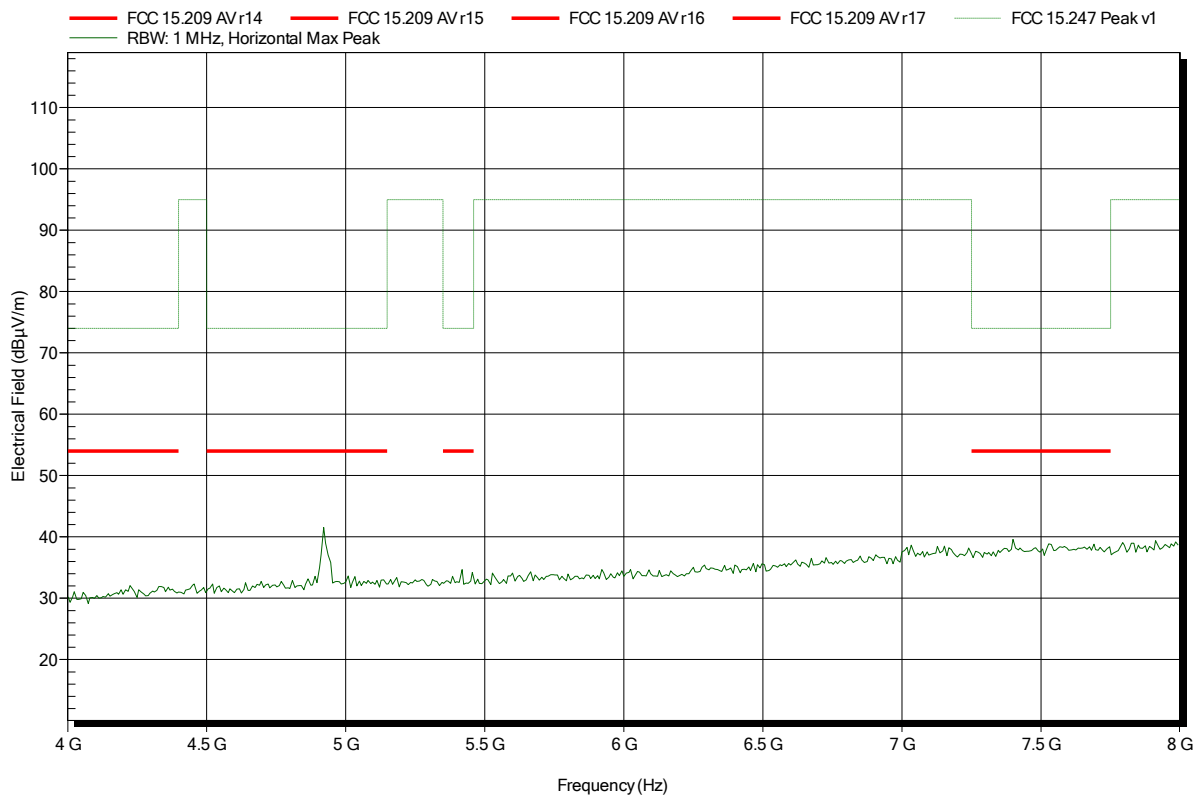


**Spurious emissions according to FCC 15.247**

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT40; MCS0; 2452 MHz  
 Test Date: 2015-04-22  
 Note:

Index 57

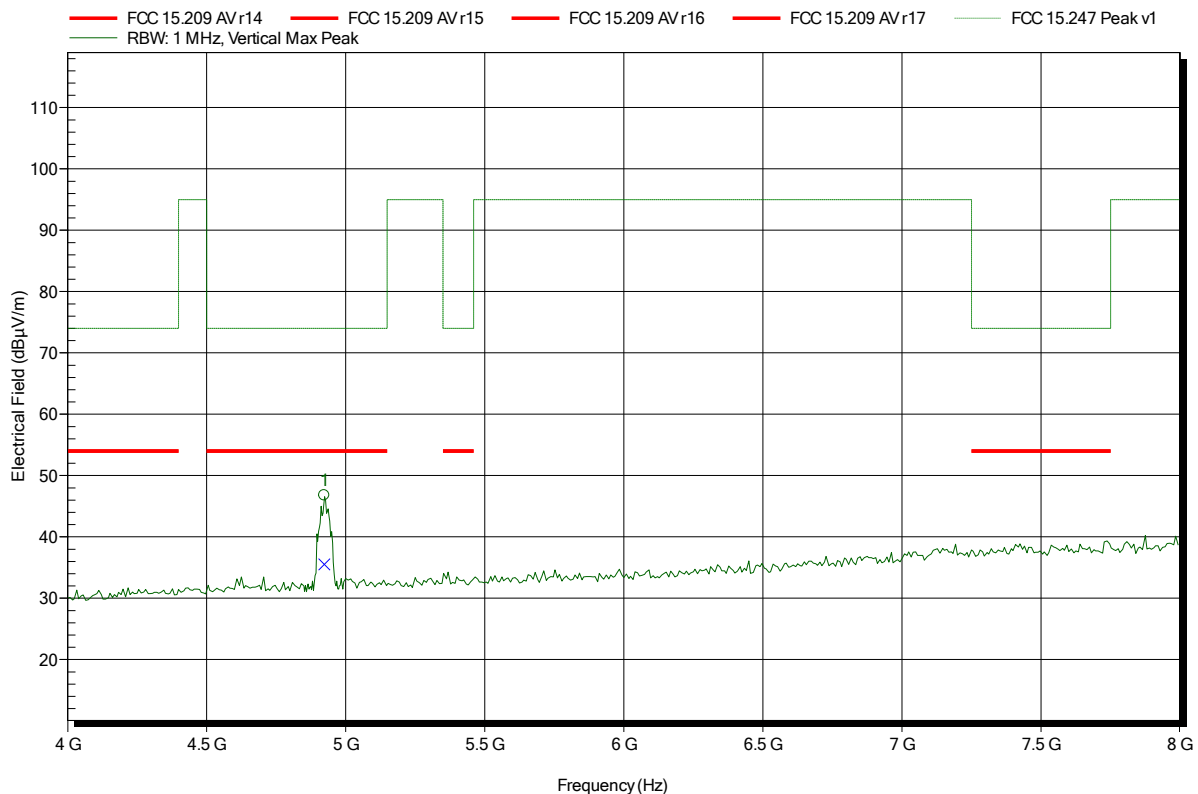


## Spurious emissions according to FCC 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: TX; HT40; MCS0; 2452 MHz  
 Test Date: 2015-04-22  
 Note:

Index 59



Frequency 4.924 GHz	Peak 46.79 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -27.21 dB	Status Pass
Frequency 4.924 GHz	Average 35.53 dBµV/m	Average Limit 54 dBµV/m	Average Difference -18.47 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

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

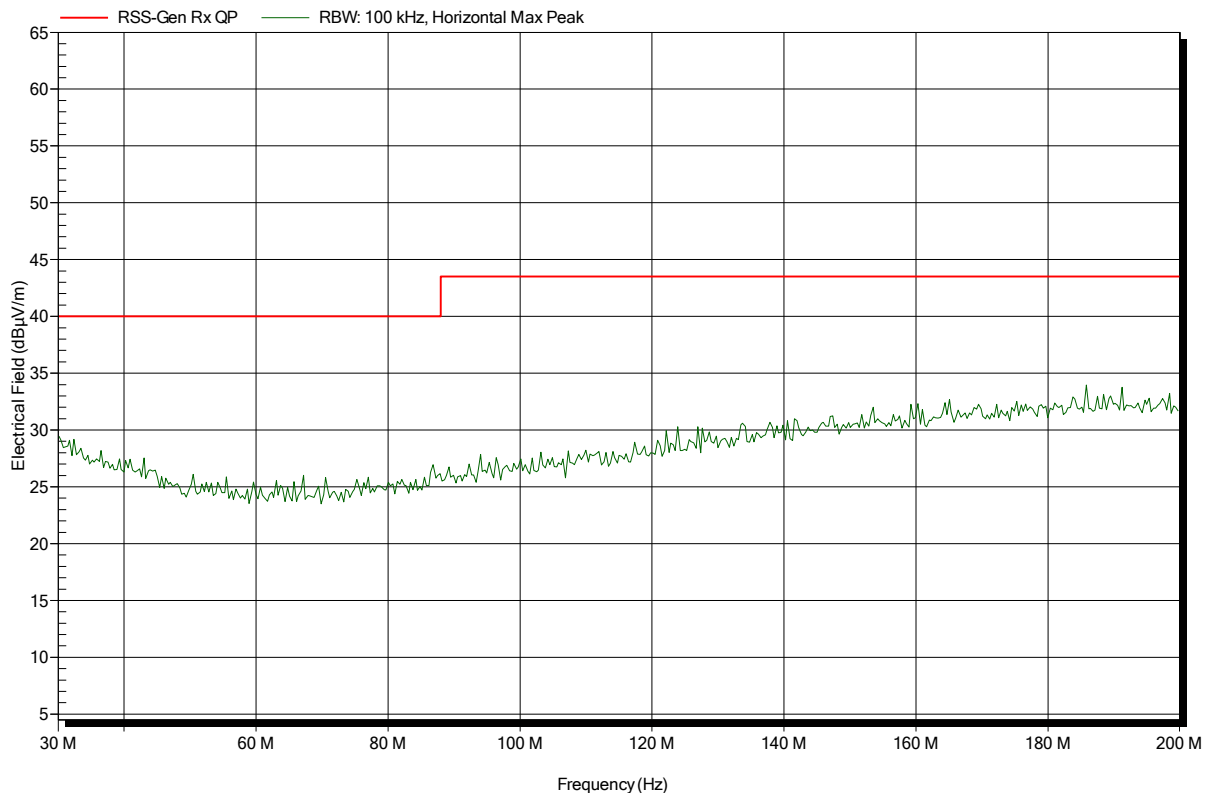
## ANNEX B Receiver radiated spurious emissions

### Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Rohde & Schwarz HK 116, Horizontal  
 Measurement distance: 3 m  
 Mode: RX; 2437 MHz  
 Test Date: 2015-04-22  
 Note:

Index 66

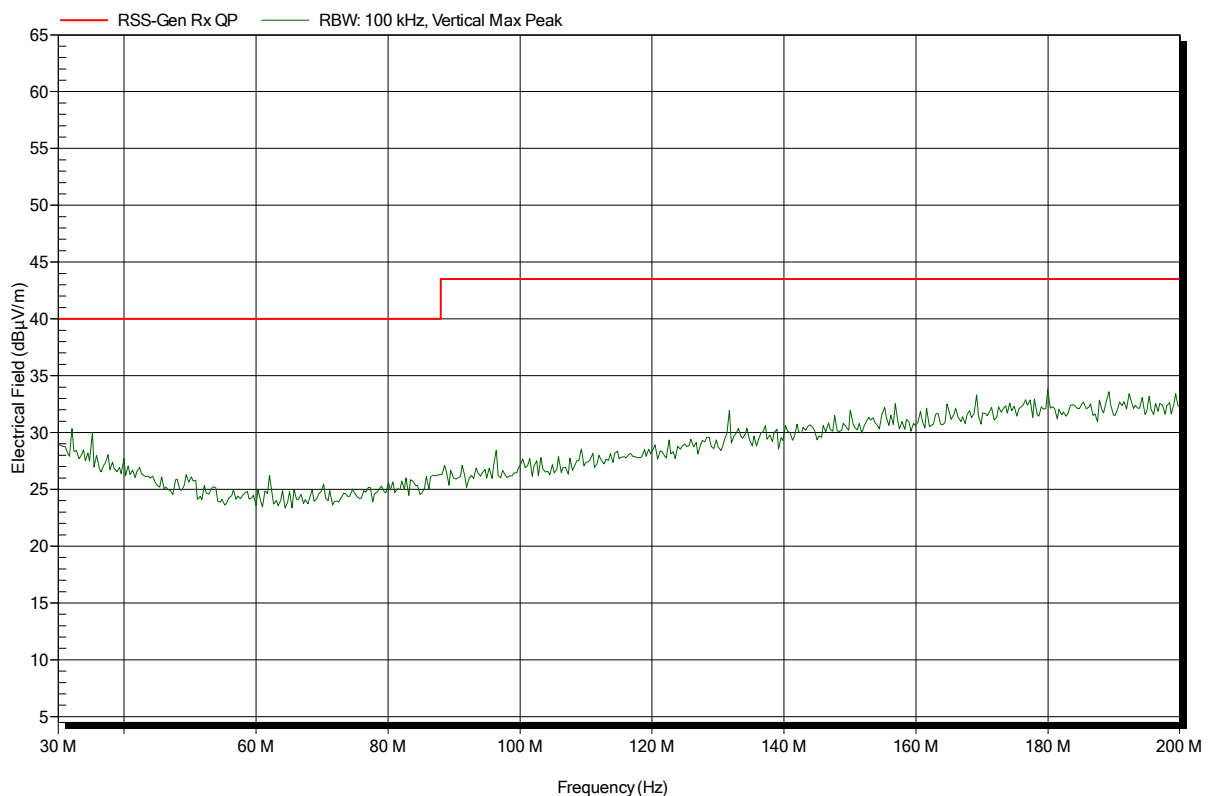


## Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Rohde & Schwarz HK 116, Vertical  
 Measurement distance: 3 m  
 Mode: RX; 2437 MHz  
 Test Date: 2015-04-22  
 Note:

Index 67

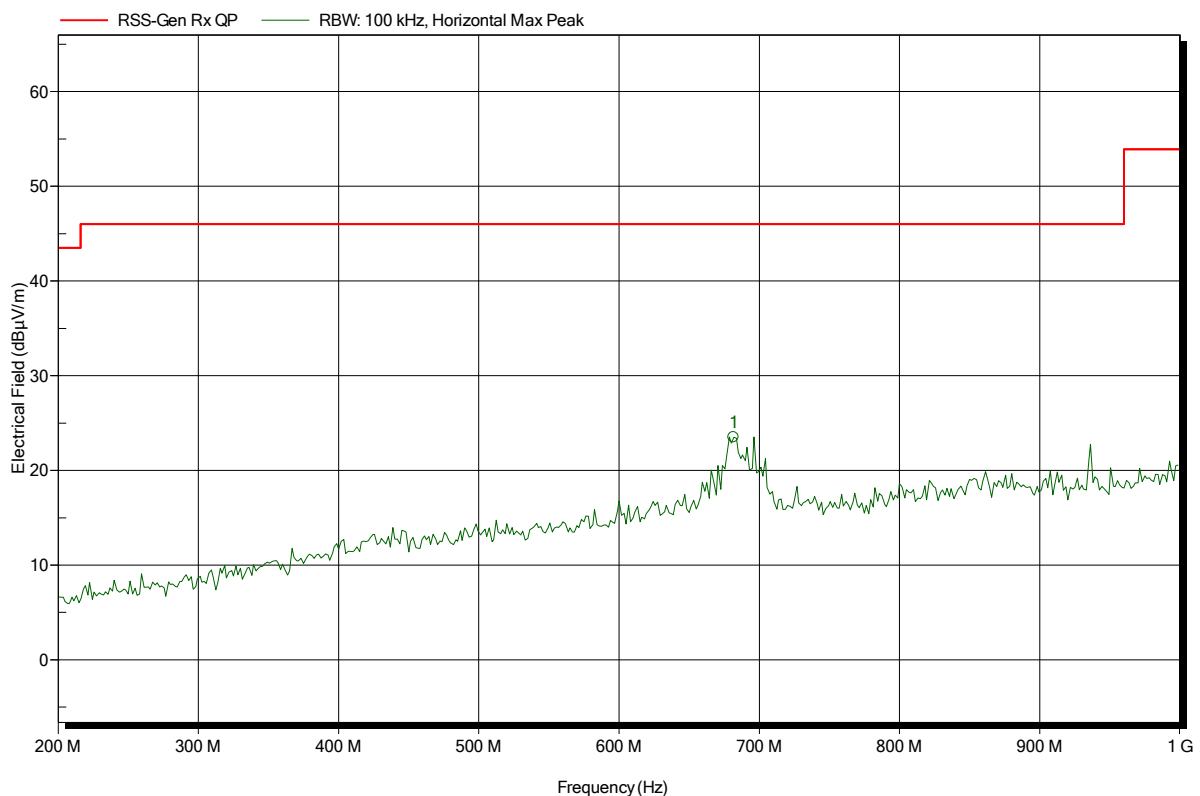


## Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 223, Horizontal  
 Measurement distance: 3 m  
 Mode: RX; 2437 MHz  
 Test Date: 2015-04-22  
 Note:

Index 68



Frequency	Peak	Peak Limit	Peak Difference	Status
681.6 MHz	23.5 dBµV/m	46 dBµV/m	-22.5 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

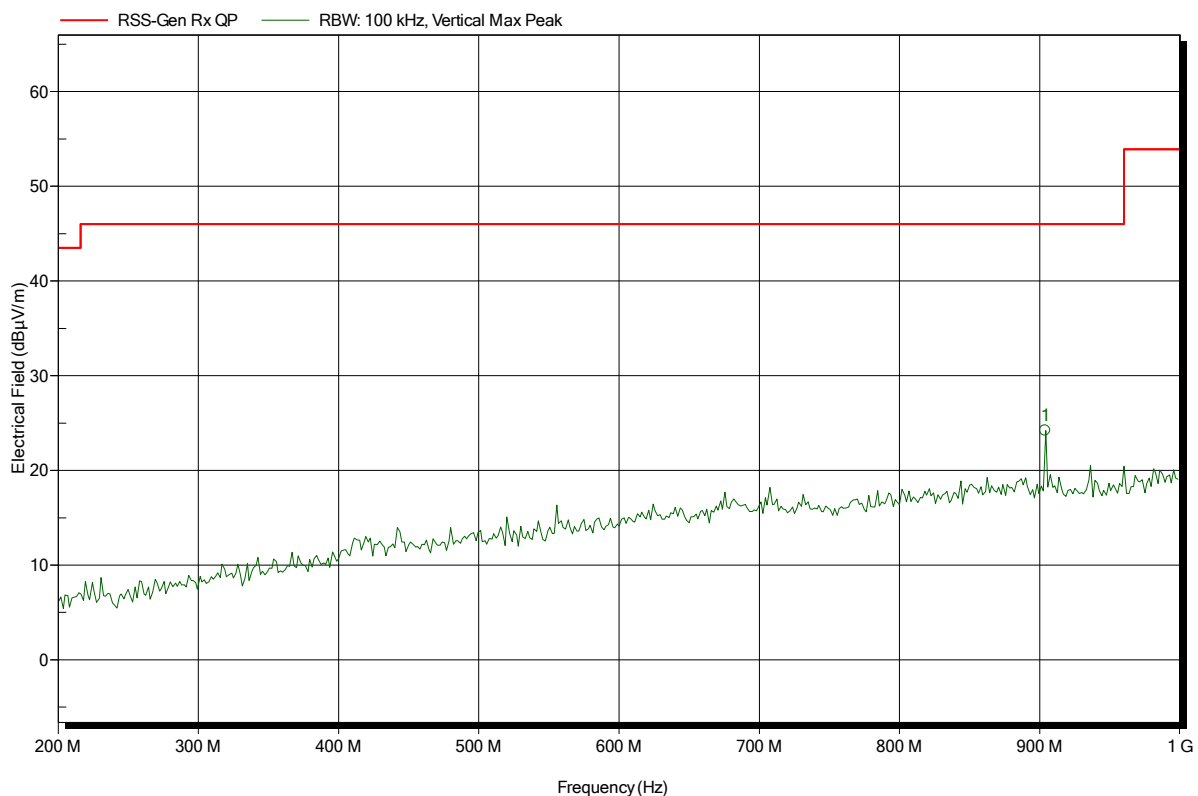
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Rohde & Schwarz HL 223, Vertical  
 Measurement distance: 3 m  
 Mode: RX; 2437 MHz  
 Test Date: 2015-04-22  
 Note:

Index 69



Frequency	Peak	Peak Limit	Peak Difference	Status
904 MHz	24.22 dBµV/m	46 dBµV/m	-21.78 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

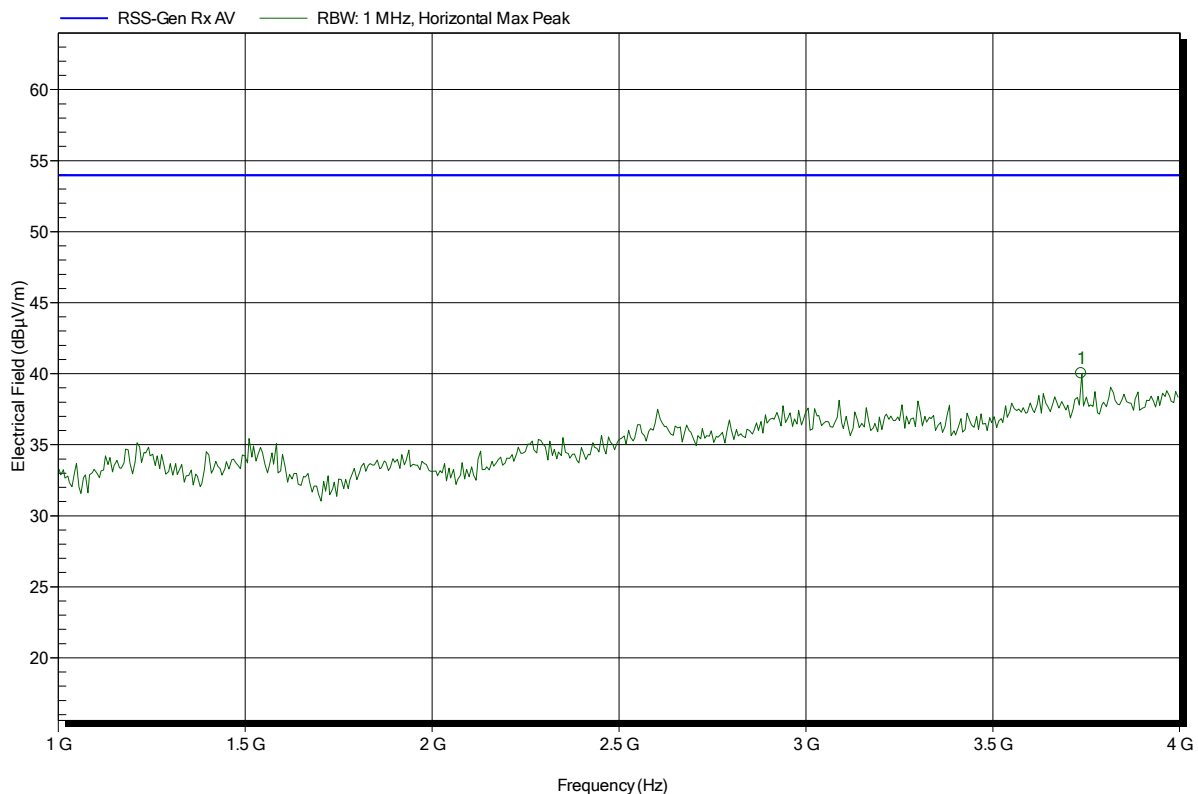
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: RX; 2437 MHz  
 Test Date: 2015-04-22  
 Note:

Index 70



Frequency	Peak	Peak Limit	Peak Difference	Status
3.736 GHz	40.02 dBµV/m	53.98 dBµV/m	-13.96 dB	Pass

Test Report No.: G0M-1503-4620-TFC247WF-V01

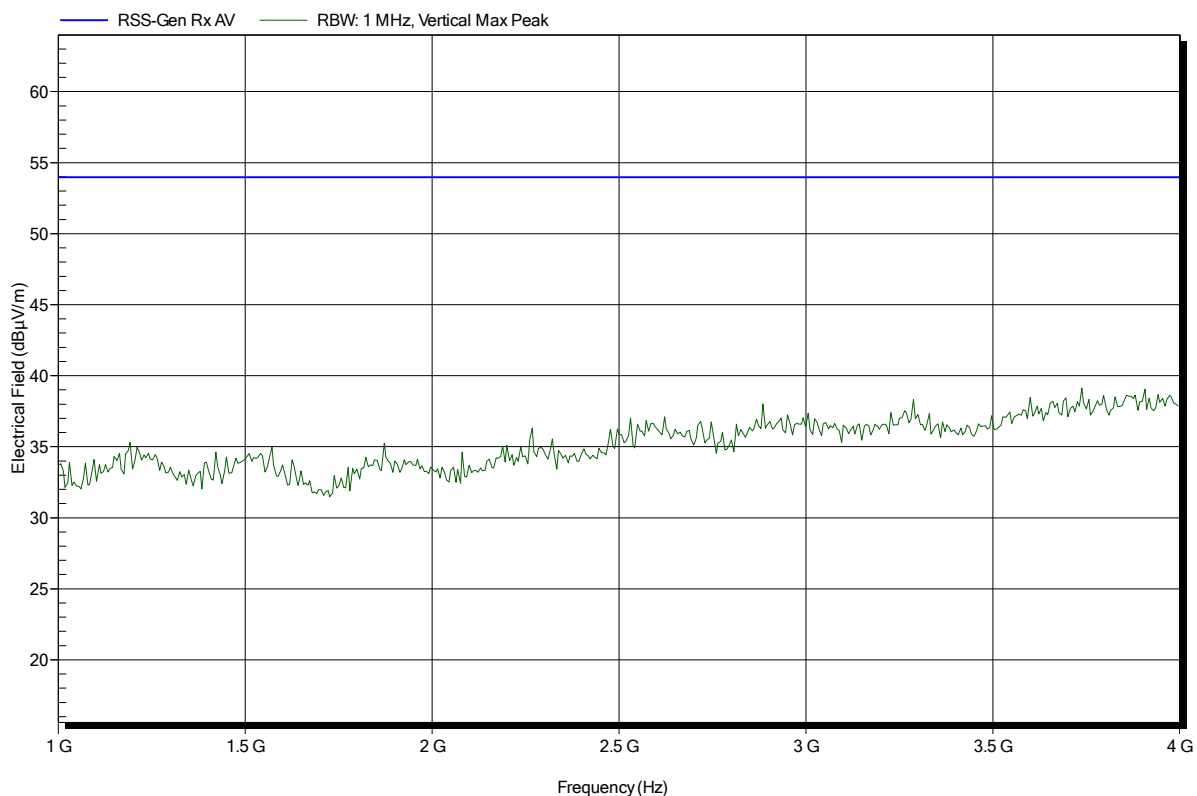
Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3.7 V DC lithium battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	RX; 2437 MHz
Test Date:	2015-04-22
Note:	

Index 72



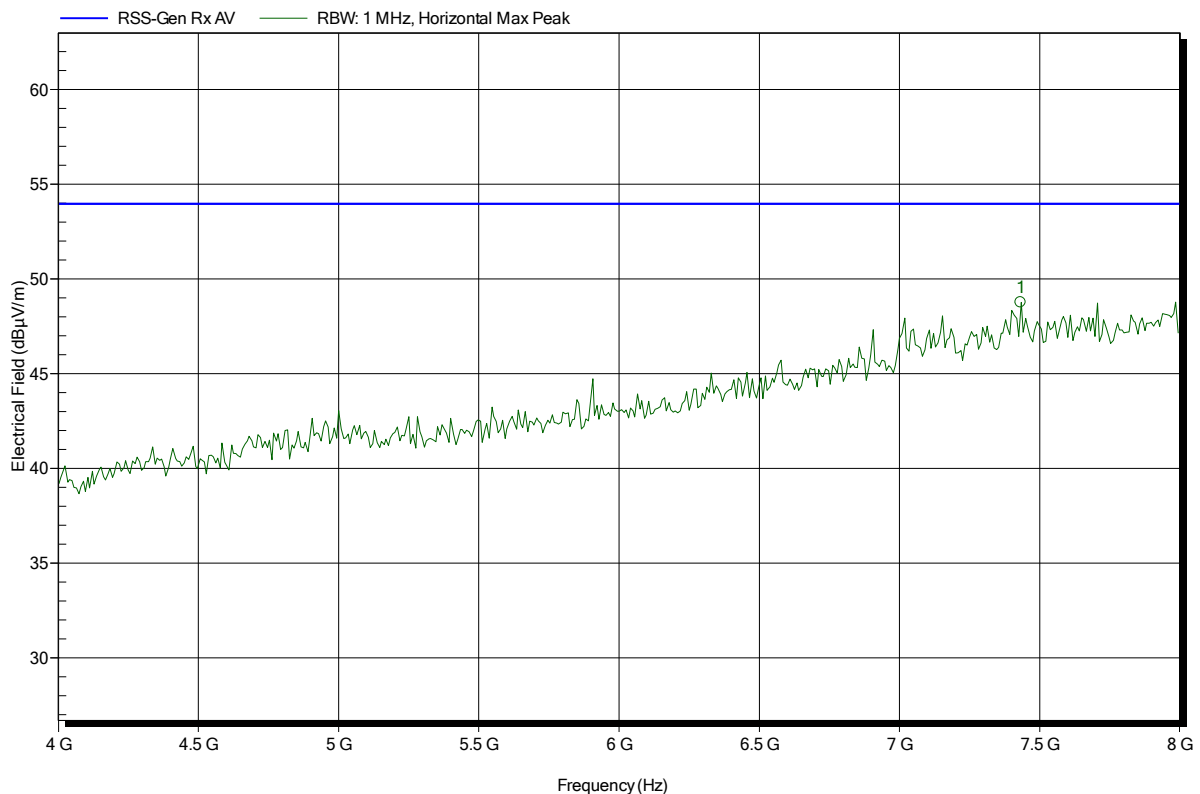


## Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS  
 EUT Name: Wireless camera (Standard version)  
 Model: OrbitX ST  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Treffke  
 Test Conditions: Tnom: 25°C, Vnom: 3.7 V DC lithium battery  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: RX; 2437 MHz  
 Test Date: 2015-04-22  
 Note:

Index 71



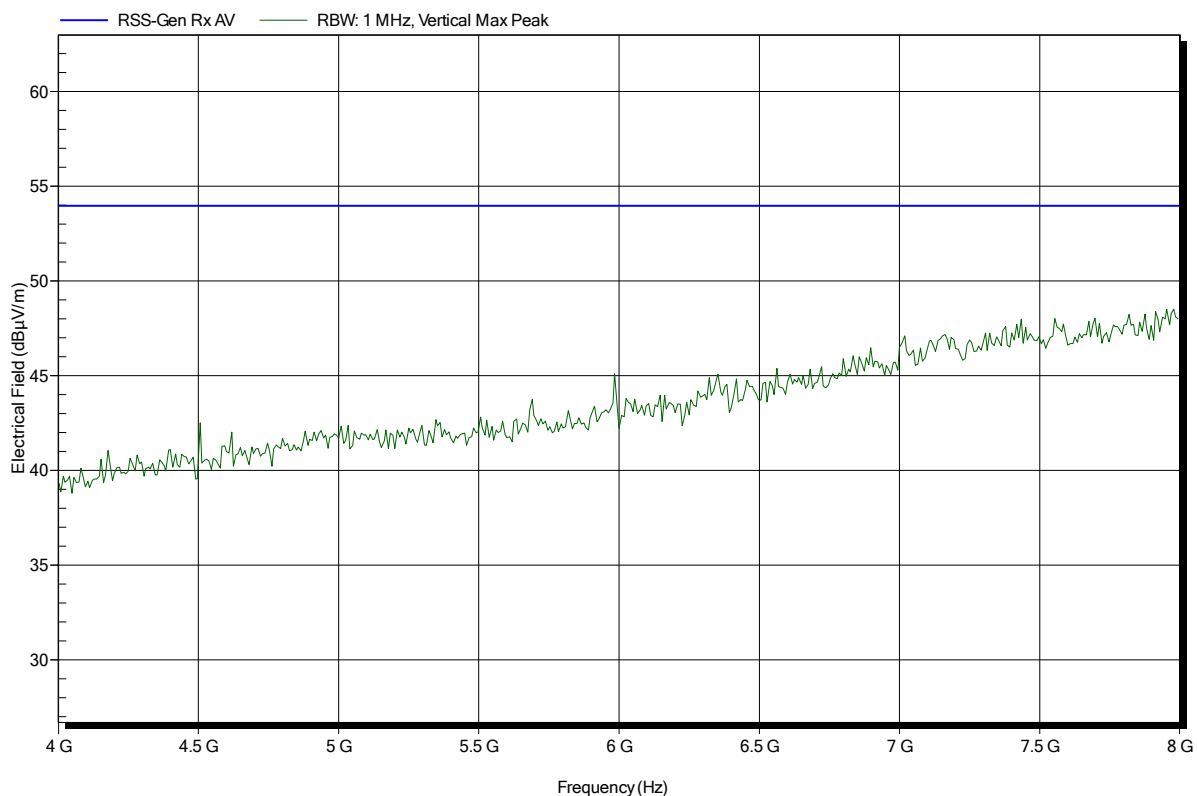
Frequency	Peak	Peak Limit	Peak Difference	Status
7.432 GHz	48.76 dBµV/m	53.98 dBµV/m	-5.22 dB	Pass

## Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3.7 V DC lithium battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	RX; 2437 MHz
Test Date:	2015-04-22
Note:	

Index 73



Title	<b>BARTEC PIXAVI OrbitX Model Differences Declaration</b>
Document ID	PX-ORBITX-Models-DoC
Revision	1
Project	OrbitX
Author	David Wightman
Created	23.04.2015
Last	23.04.2015
Nature of document	<b>CONFIDENTIAL</b>
Contents	<b>Contents:</b> Bartec Pixavi ORBITX RoHS Declaration of Conformity

**Revision History**

Revision	Date	Change	Revised by
1	23.04.2015		

## BARTEC PIXAVI OrbitX Model Differences Statement

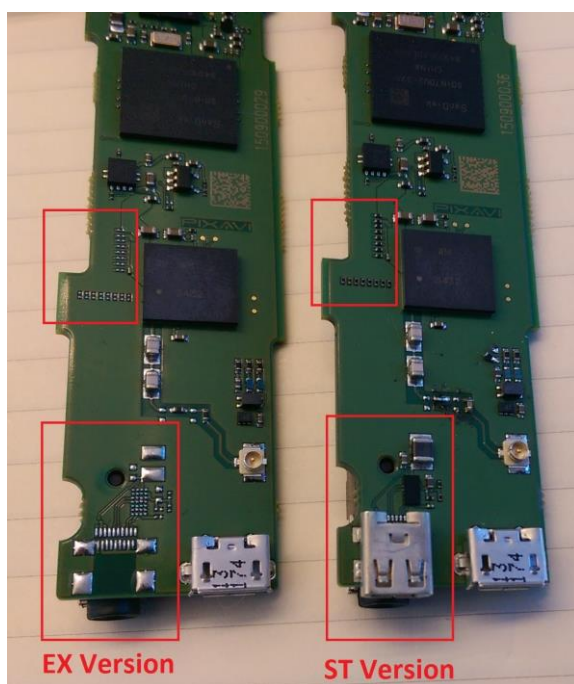
To whom it may concern,

The OrbitX comes in two models, an OrbitX-EX model and an OrbitX-ST model. Both models are identical except for the following differences highlighted below. There are no differences to the radio section between models.

### HDMI

The **ST model** includes circuitry to support a Micro-HDMI connection and mechanics to give access to the HDMI port.

The **EX model** uses the same PCB, but does not have the HDMI components populated.



## SILICON POTTING

The EX model is made for Hazardous areas and therefore is filled with a silicon potting in the following area. The antenna is not enclosed in Silicon.

The ST model is not filled with silicon potting.

