

<b>FCC TEST REPORT</b> <b>FCC 47 CFR Part 15C</b> <b>Industry Canada RSS-210</b> <b>Frequency hopping systems operating within the 2400 – 2483.5 MHz band</b>	
<b>Report Reference No.</b> .....	G0M-1407-3973-TFC247BT-V01
<b>Testing Laboratory</b> .....	Eurofins Product Service GmbH
Address.....	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation .....	<div style="display: flex; justify-content: center; align-items: center;">   </div> <p style="text-align: center; margin-top: 5px;"> A2LA Accredited Testing Laboratory, Certificate No.: 1983.01  FCC Filed Test Laboratory, Reg.-No.: 96970  IC OATS Filing assigned code: 3470A </p>
<b>Applicant's name</b> .....	BARTEC PIXAVI AS
Address.....	Domkirkeklassen 2 4006 Stavanger NORWAY
<b>Test specification:</b>	
Standard .....	47 CFR Part 15C RSS-210, Issue 8, 2010-12 RSS-Gen, Issue 3, 2010-12 ANSI C63.4:2009
<b>Equipment under test (EUT):</b>	
Product description	Smartphone
Model No.	ImpactX
Additional Model(s)	GravityX
Brand Name(s)	None
Hardware version	rev B0
Firmware / Software version	Android 4.2.2
	FCC-ID: YML-X7SERIES      IC: 9249A-X7SERIES
<b>Test result</b>	<b>Passed</b>

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Test Report No.: G0M-1407-3973-TFC247BT-V01

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

**Possible test case verdicts:**

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

**Testing:**


Test Lab Temperature..... : 20 – 23 °C


Test Lab Humidity ..... : 32 – 38 %

Date of receipt of test item ..... : 2014-08-05

Date (s) of performance of tests ..... : 2014-09-22 - 2014-09-26

Compiled by ..... : Toralf Jahn

Tested by (+ signature)..... : Toralf Jahn   
 (Responsible for Test) .....

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

Date of issue ..... : 2014-11-17

Total number of pages ..... : 132

**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 additional model GravityX is identical to the model ImpactX. Both models use the same pcb and the same software. Only the mobile communication module is deactivated. Therefore the results for the Bluetooth tests are applicable to both models.

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## Version History

Version	Issue Date	Remarks	Revised by
01	2014-11-17	Initial Release	

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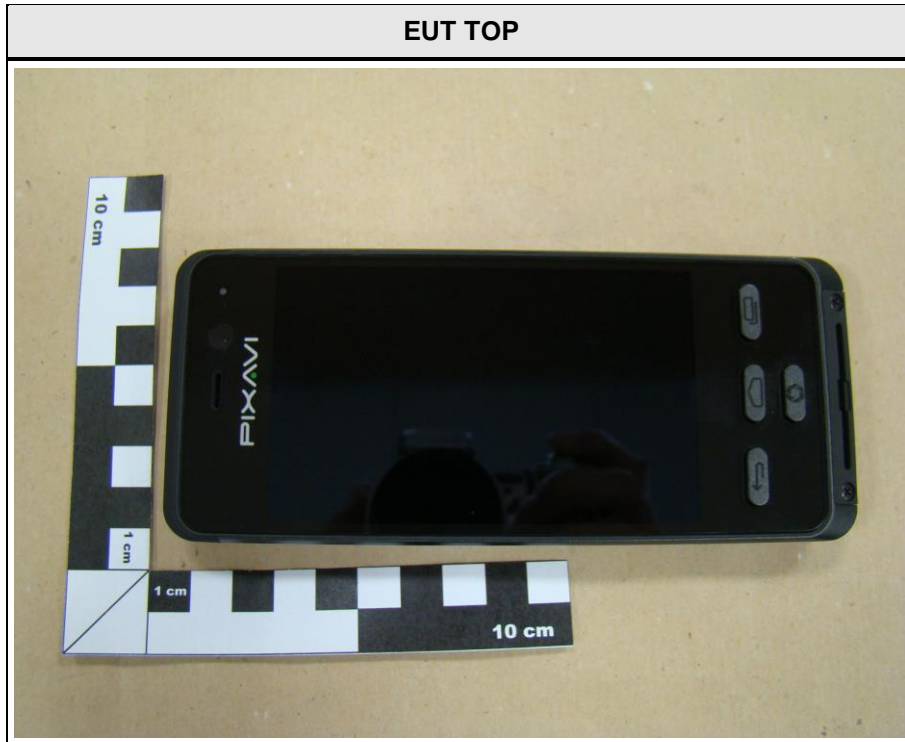
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## 1 Equipment (Test item) Description

<b>Description</b>	Smartphone	
<b>Model</b>	ImpactX	
<b>Additional Model(s)</b>	GravityX	
<b>Brand Name(s)</b>	None	
<b>Serial number</b>	None	
<b>Hardware version</b>	rev B0	
<b>Software / Firmware version</b>	Android 4.2.2	
<b>FCC-ID</b>	YML-X7SERIES	
<b>IC</b>	9249A-X7SERIES	
<b>Equipment type</b>	Radio module	
<b>Radio type</b>	Transceiver	
<b>Radio technology</b>	Bluetooth	
<b>Operating frequency range</b>	2402 - 2480 MHz	
<b>Assigned frequency band</b>	2400 - 2483.5 MHz	
<b>Main test frequencies</b>	F <sub>LOW</sub>	2402 MHz
	F <sub>MID</sub>	2441 MHz
	F <sub>HIGH</sub>	2480 MHz
<b>Spreading</b>	FHSS	
<b>Modulations</b>	GFSK, PI/4-DQPSK, 8-PSK	
<b>Number of channels</b>	79 hopping channels at all	
<b>Channel spacing</b>	1 MHz	
<b>Number of antennas</b>	1	
<b>Antenna</b>	Type	integrated
	Model	M830510
	Manufacturer	Ethertronics
	Gain	1.1
<b>Manufacturer</b>	BARTEC PIXAVI AS Domkirkeklassen 2 4006 Stavanger NORWAY	
<b>Power supply</b>	V <sub>NOM</sub>	3.7 VDC
	V <sub>MIN</sub>	3.1 VDC
	V <sub>MIN</sub>	4.2 VDC
<b>AC/DC-Adaptor</b>	Type	AC/DC USB Charger
	Model	AN4111
	Manufacturer	ANSMANN

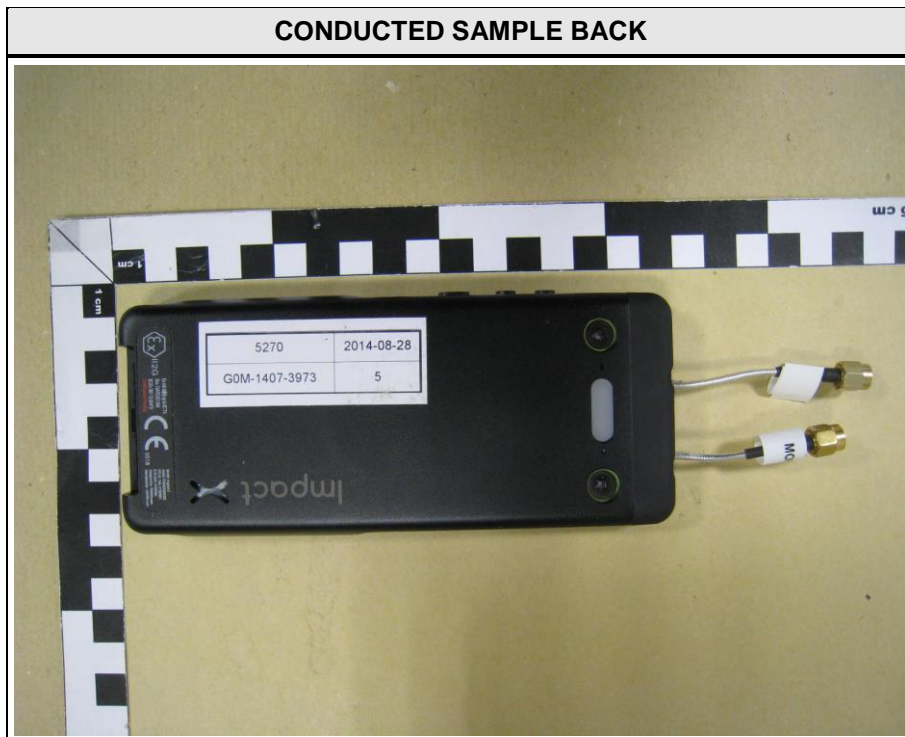
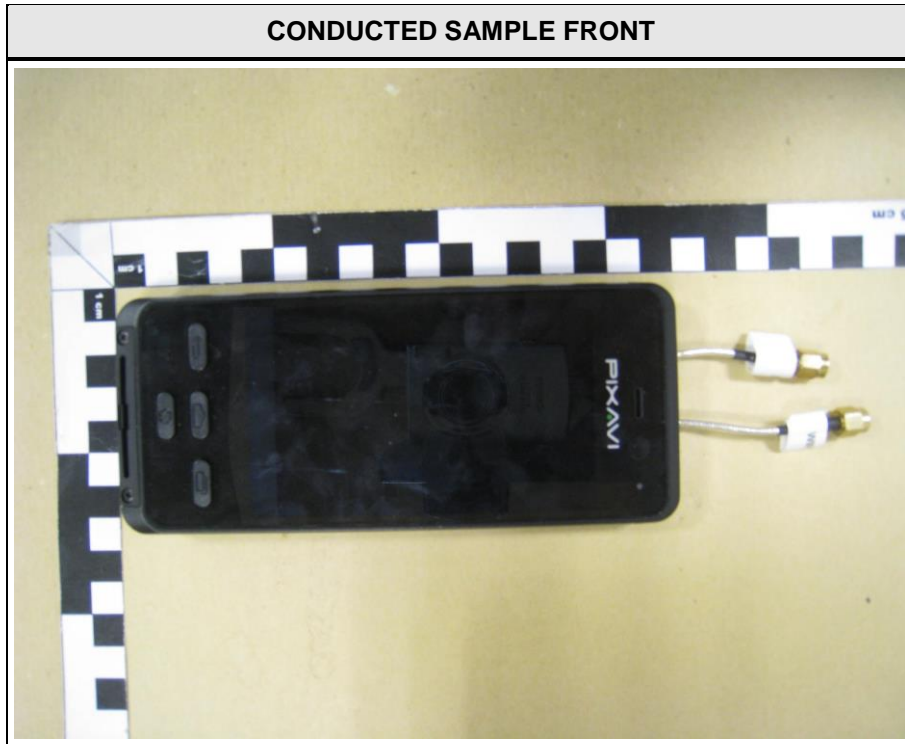
1.1 Photos – Equipment External

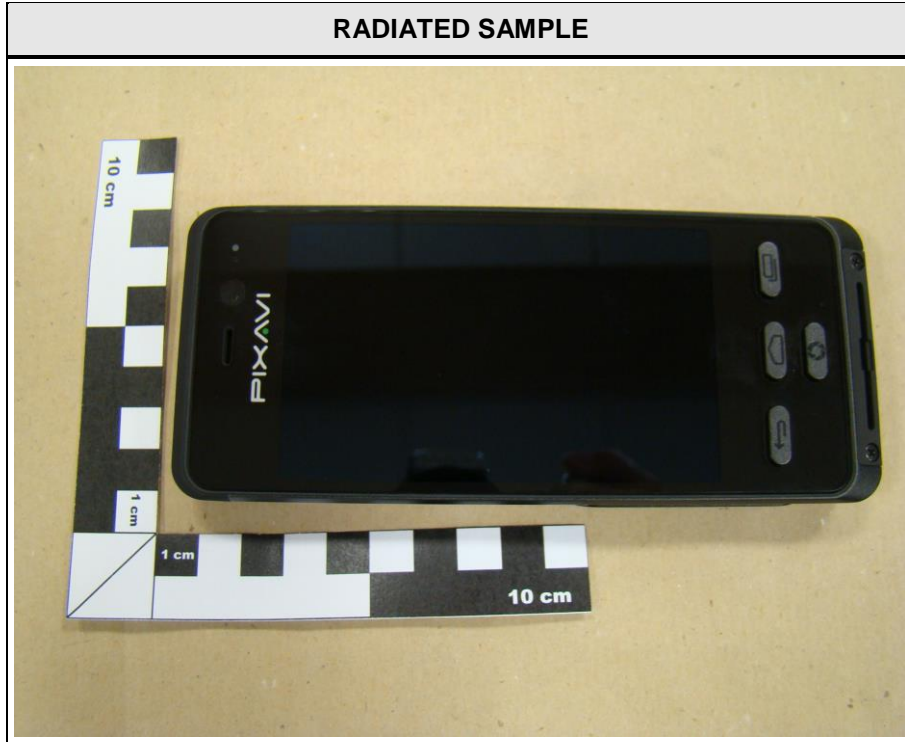


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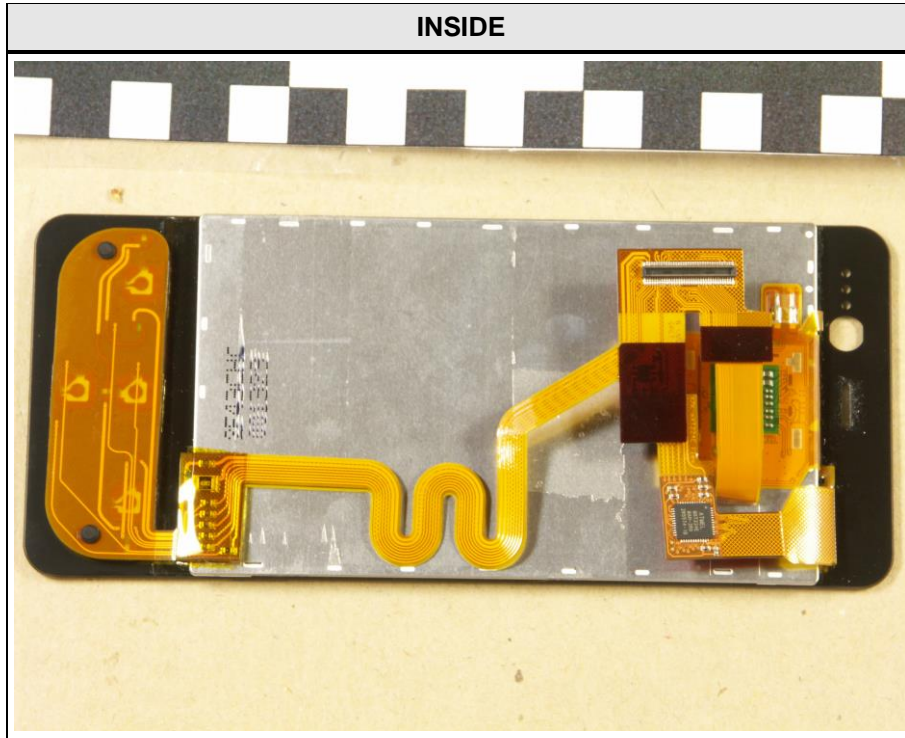
1.2 Photos – Equipment External



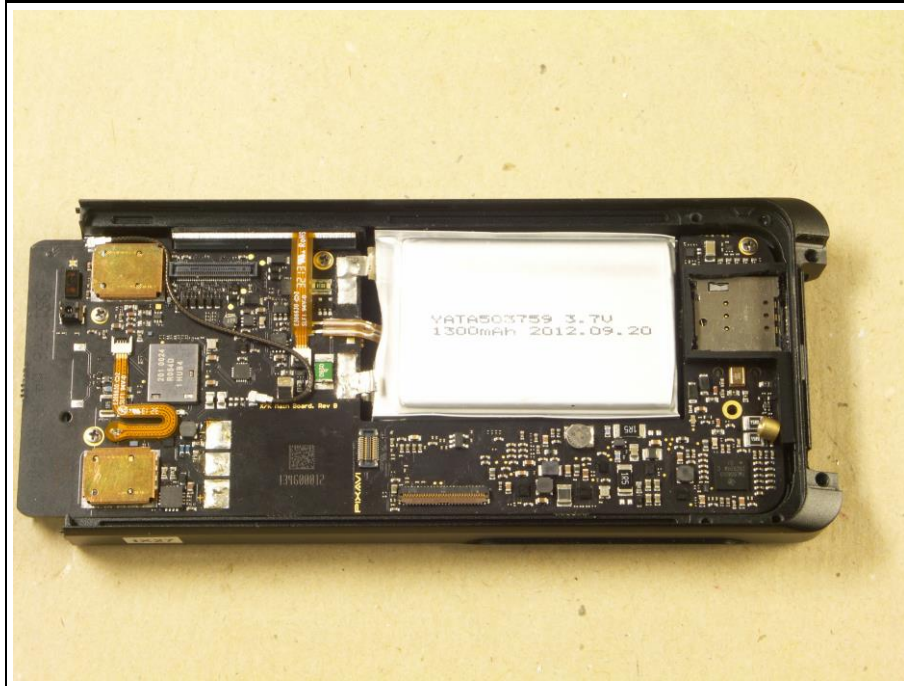




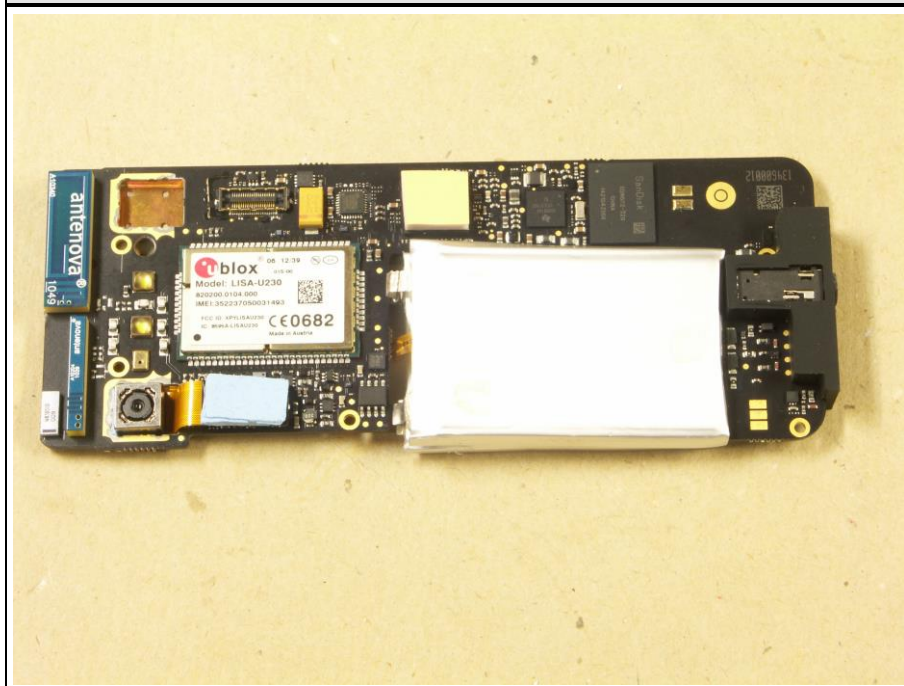
1.3 Photos – Equipment internal



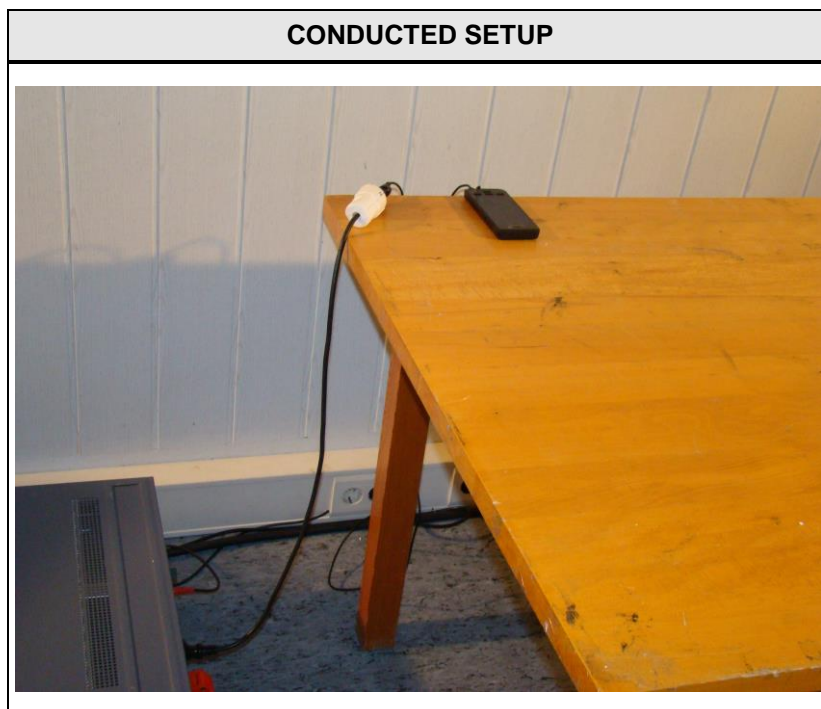
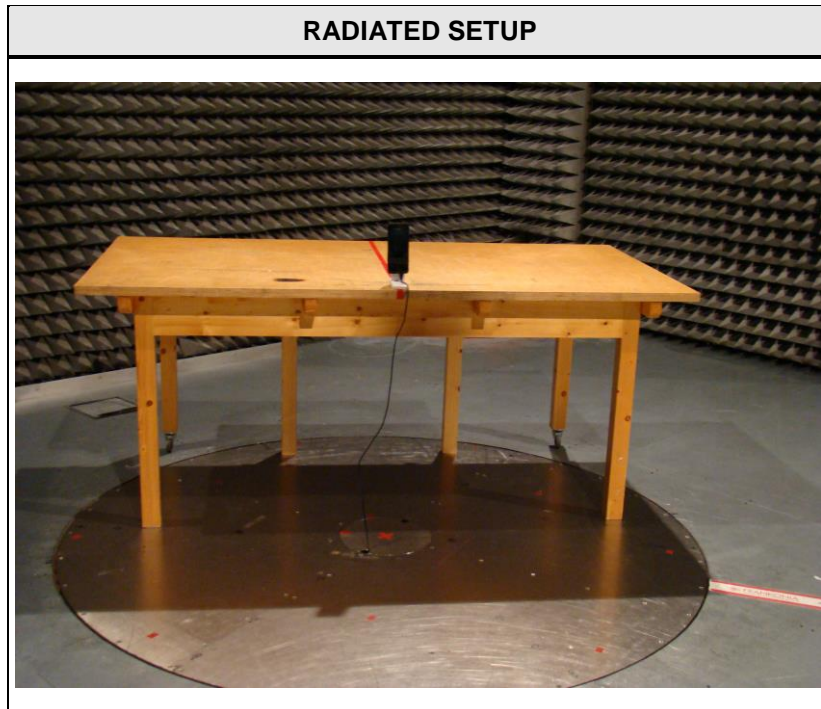
PCB



PCB



1.4 Photos – Test setup



### 1.5 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
SIM	Bluetooth Tester	Rohde & Schwarz	CBT	for signaling
<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>				

**1.6 Test Modes**

Mode #	Description	
DH5-Sngl	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping stopped (single hopping channel) Modulation = GFSK Packet type = DH5 Data rate = 1 Mbps Duty cycle = 77 % Power level = Maximum
2DH5-Sngl	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping stopped (single hopping channel) Modulation = $\pi/4$ -DQPSK Packet type = 2DH5 Data rate = 2 Mbps Duty cycle = 77 % Power level = Maximum
3DH5-Sngl	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping stopped (single hopping channel) Modulation = 8-DPSK Packet type = 3DH5 Data rate = 3 Mbps Duty cycle = 77 % Power level = Maximum
DH5-Hop	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping Modulation = GFSK Packet type = DH5 Data rate = 1 Mbps Duty cycle = 77 % Power level = Maximum

2DH5-Hop	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping Modulation = $\pi/4$ -DQPSK Packet type = 2DH5 Data rate = 2 Mbps Duty cycle = 77 % Power level = Maximum
3DH5-Hop	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping Modulation = 8-DPSK Packet type = 3DH5 Data rate = 3 Mbps Duty cycle = 77 % Power level = Maximum
Receive	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone receive Spreading = Hopping
AC-Powerline	General conditions:	EUT powered by commercial AC/DC-Adapter
	Radio conditions:	Mode = standalone transmit Spreading = Hopping Power level = Maximum

**1.7 Test Equipment Used During Testing**

<b>Measurement Software</b>			
Description	Manufacturer	Name	Version
EMC Test Software	Dare Instruments	Radimation	2014.1.15

<b>20dB Bandwidth</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSW43	EF00896	2014-02	2015-02

<b>Number of hopping frequencies</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSW43	EF00896	2014-02	2015-02

<b>Time of occupancy</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSW43	EF00896	2014-02	2015-02

<b>Maximum peak conducted power</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSW43	EF00896	2014-02	2015-02

<b>Band edge compliance</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSW43	EF00896	2014-02	2015-02

<b>Conducted spurious emissions</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSW43	EF00896	2014-02	2015-02

<b>Radiated spurious emissions</b>					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 1	EF00062	2013-01	2015-01
Spectrum Analyzer	R&S	FSIQ26	EF00242	2014-03	2015-03
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00187	2014-03	2017-03
LPD Antenna	R&S	HL 025	EF00327	2013-02	2016-02

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AC powerline conducted emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH2-Z5	EF00182	2012-10	2014-10
AMN	R&S	ESH3-Z5	EF00036	2012-11	2014-11
EMI Test Receiver	R&S	ESCS 30	EF00295	2013-10	2014-10



## 1.8 Sample emission level calculation

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

Reading:

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

A.F.:

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

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

Net:

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

Limit:

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

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

Margin:

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

Example only:


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

## 2 Result Summary

FCC 47 CFR Part 15C, IC RSS-210				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
RSS-Gen 4.6.1	Occupied Bandwidth	RSS-Gen 4.6.1	N/R	Informational only
FCC § 15.247(a)(1) IC RSS-210 § A8.1	20 dB Bandwidth	Public notice DA 00-705	PASS	
FCC § 15.247(a)(1)(iii) IC RSS-210 § A8.1	Number of hopping frequencies	Public notice DA 00-705	PASS	
FCC § 15.247(a)(1) IC RSS-210 § A8.1	Frequency hopping channel separation	Public notice DA 00-705	PASS	
FCC § 15.247(a)(1)(iii) IC RSS-210 § A8.1	Time of occupancy (Dwell time)	Public notice DA 00-705	PASS	
FCC § 15.247(b)(1) IC RSS-210 § A8.4	Maximum peak conducted power	Public notice DA 00-705	PASS	
47 CFR 15.207 RSS-Gen 7.2.4	AC power line conducted emissions	ANSI C63.4	PASS	
FCC § 15.247(d) IC RSS-210 § A8.5	Band edge compliance	Public notice DA 00-705	PASS	
FCC § 15.247(d) IC RSS-210 § A8.5	Conducted spurious emissions	Public notice DA 00-705	PASS	
FCC § 15.247(d) FCC § 15.209 IC RSS-210 A8.5 IC RSS-Gen 4.9 IC RSS-Gen 7.2.5	Transmitter radiated spurious emissions	Public notice DA 00-705 / ANSI C 63.4	PASS	
IC RSS-Gen 4.10 IC RSS-Gen 6.1	Receiver radiated spurious emissions	ANSI C 63.4	PASS	
<b>Remarks:</b>				

### 3 Test Conditions and Results

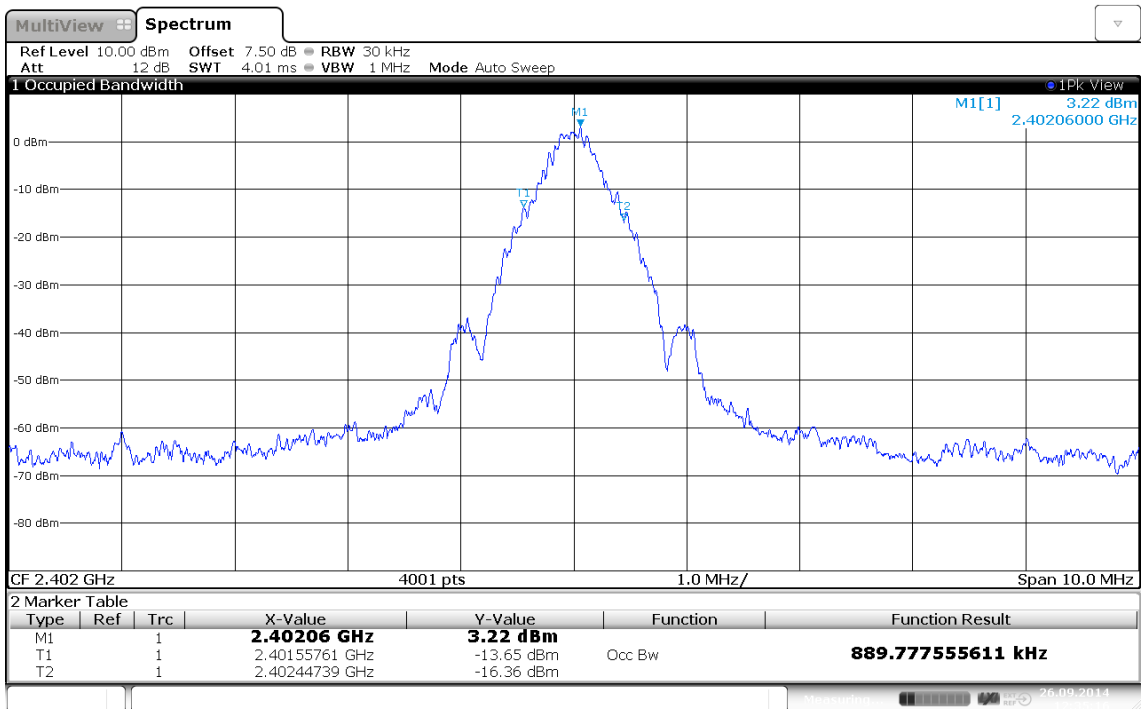
#### 3.1 Test Conditions and Results – Occupied Bandwidth

Occupied Bandwidth acc. IC RSS-Gen		Verdict: PASS	
Test according to measurement reference	Reference Method		
	RSS-Gen 4.6.1		
Test frequency range	Tested frequencies		
	$F_{LOW} / F_{MID} / F_{HIGH}$		
<b>Limits</b>			
None (Informational only)			
<b>Test setup</b>			
 <pre> graph LR     SA[Spectrum Analyzer] --- EUT[EUT]             </pre>			
<b>Test procedure</b>			
<ol style="list-style-type: none"> <li>EUT set to test mode (Communication tester is used if needed)</li> <li>Span set to at least twice the emission spectrum</li> <li>Resolution bandwidth set to 1 % of span</li> <li>Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function</li> </ol>			
<b>Test results</b>			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
$F_{LOW}$	2402	DH5-Sngl	889.8
$F_{MID}$	2441	DH5-Sngl	899.8
$F_{HIGH}$	2480	DH5-Sngl	894.8
$F_{LOW}$	2402	2DH5-Sngl	1214.7
$F_{MID}$	2441	2DH5-Sngl	1224.7
$F_{HIGH}$	2480	2DH5-Sngl	1232.2
$F_{LOW}$	2402	3DH5-Sngl	1219.7
$F_{MID}$	2441	3DH5-Sngl	1222.2
$F_{HIGH}$	2480	3DH5-Sngl	1232.2
Comments:			

**Occupied Bandwidth – DH5-Sngl F<sub>Low</sub>**
**Occupied Bandwidth acc. to RSS-Gen**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2402 MHz, DH-5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
 Note 2: conducted measurement

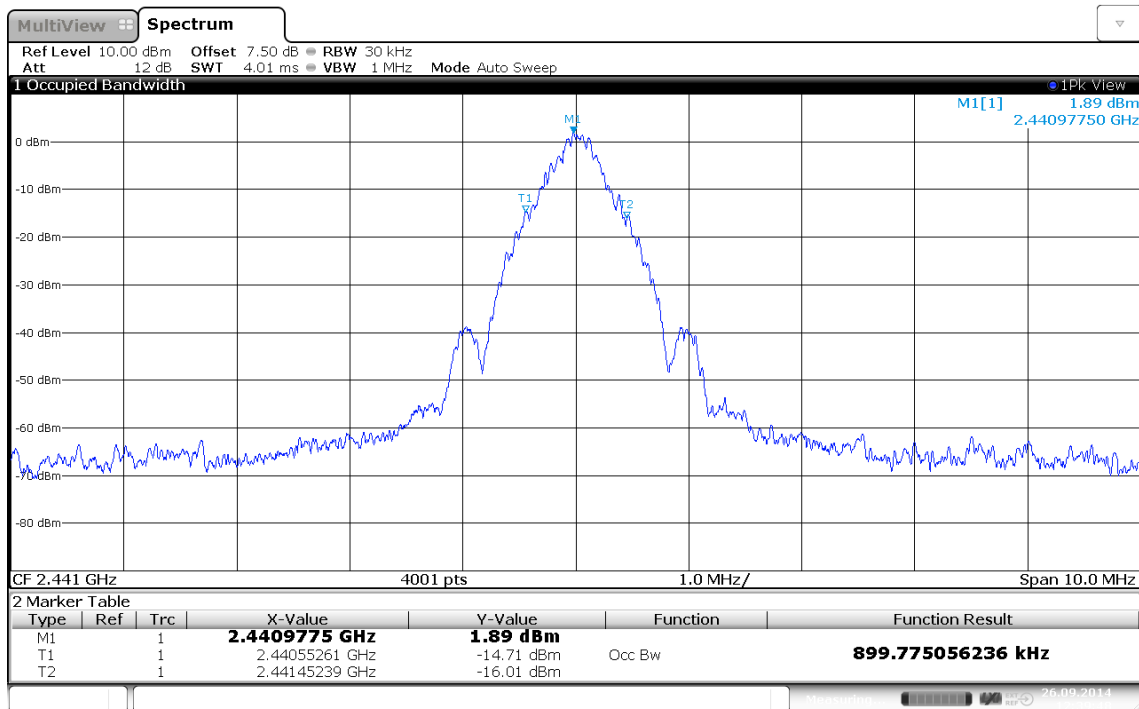


Occupied Bandwidth – DH5-Sngl F<sub>MID</sub>

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2441 MHz, DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
 Note 2: conducted measurement



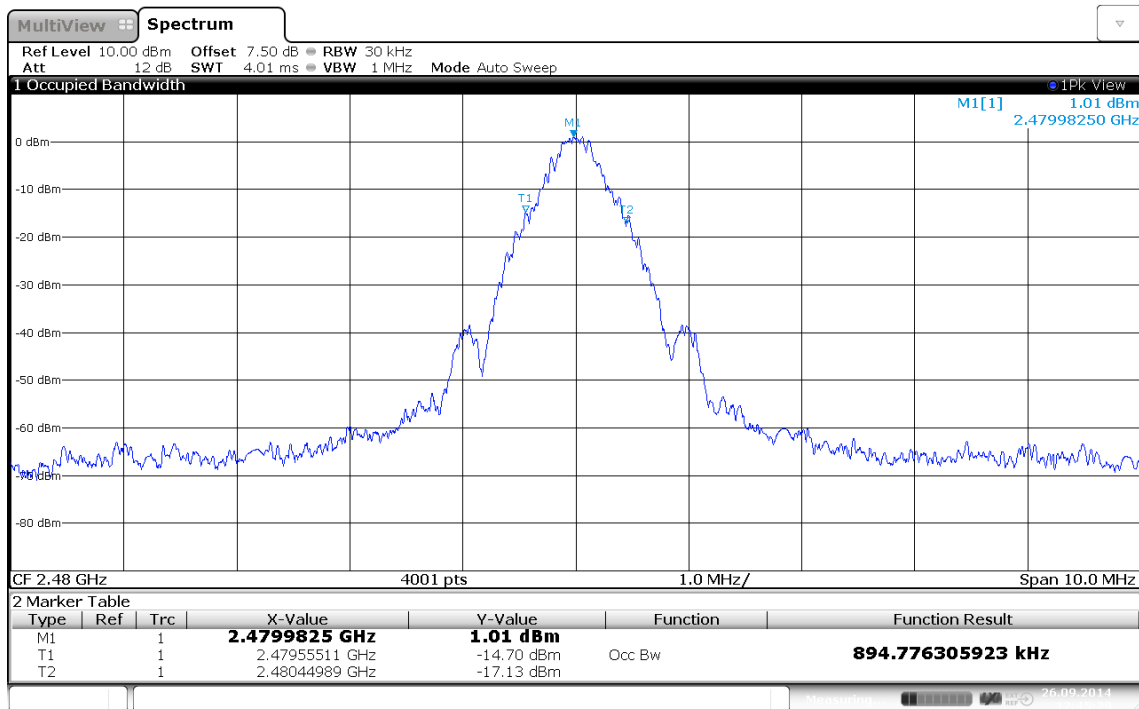
Occupied bandwidth: 899.8 KHz  
 Date: 26.SEP.2014 12:39:49

**Occupied Bandwidth – DH5-Sngl F<sub>HIGH</sub>**

**Occupied Bandwidth acc. to RSS-Gen**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2480 MHz, DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
 Note 2: conducted measurement



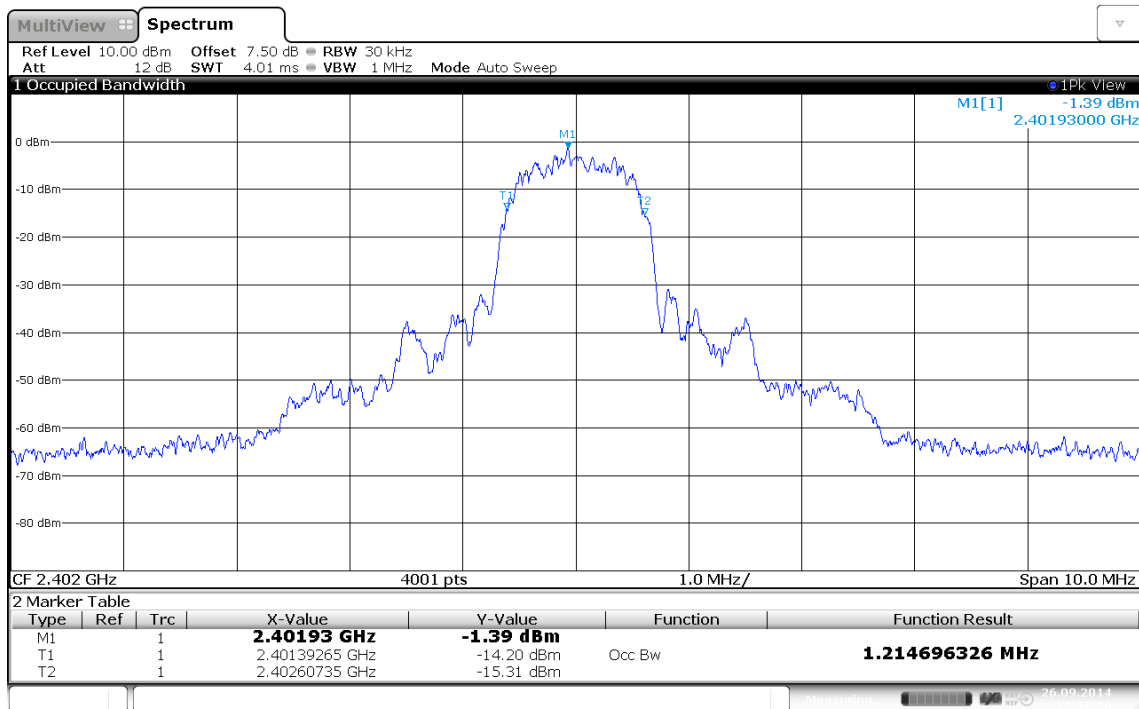
Occupied bandwidth: 894.8 KHz  
 Date: 26.SEP.2014 12:45:29

Occupied Bandwidth – 2-DH5-Sngl F<sub>LOW</sub>

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2402 MHz, 2-DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
 Note 2: conducted measurement



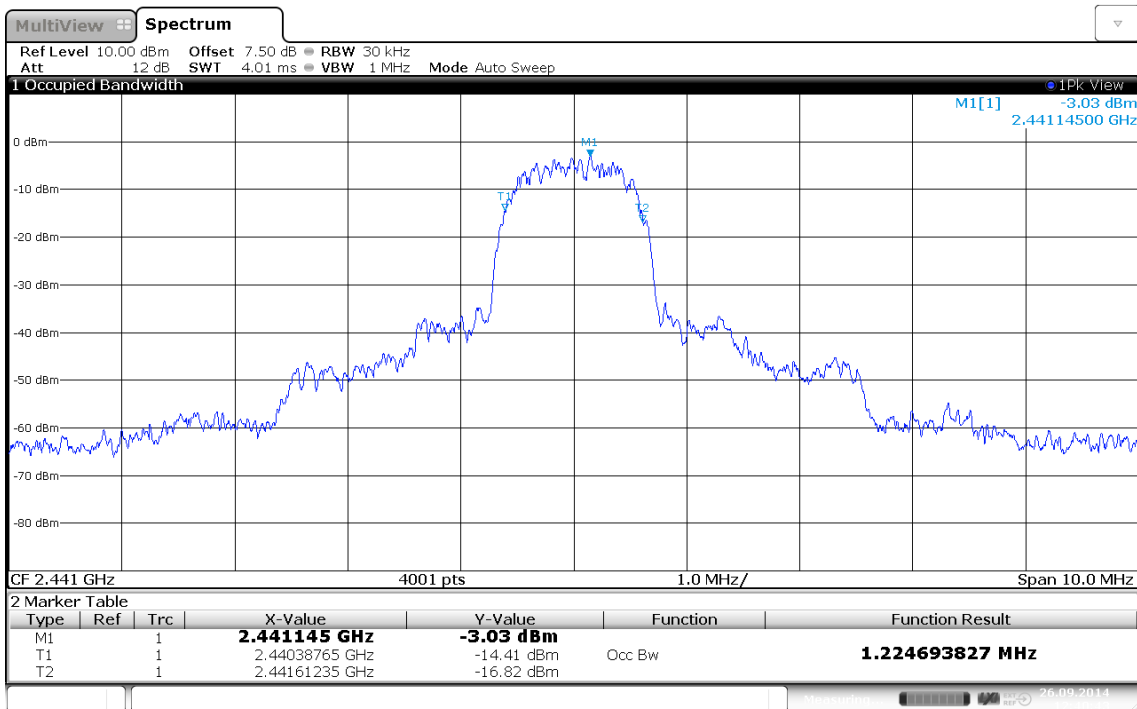
Occupied bandwidth: 1214.7 KHz  
 Date: 26.SEP.2014 12:37:26

Occupied Bandwidth – 2-DH5-Sngl F<sub>MID</sub>

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2441 MHz, 2-DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
 Note 2: conducted measurement



Occupied bandwidth: 1224.7 KHz  
 Date: 26.SEP.2014 12:40:43

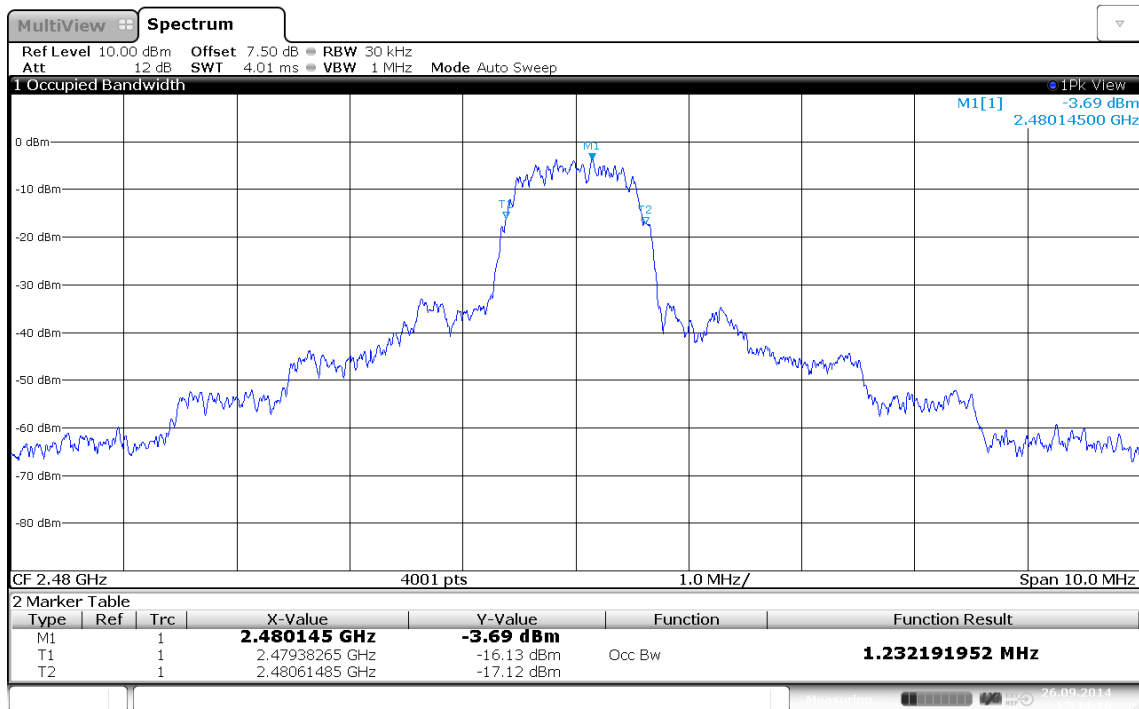


Occupied Bandwidth – 2-DH5-Sngl F<sub>HIGH</sub>

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2480 MHz, 2-DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
 Note 2: conducted measurement

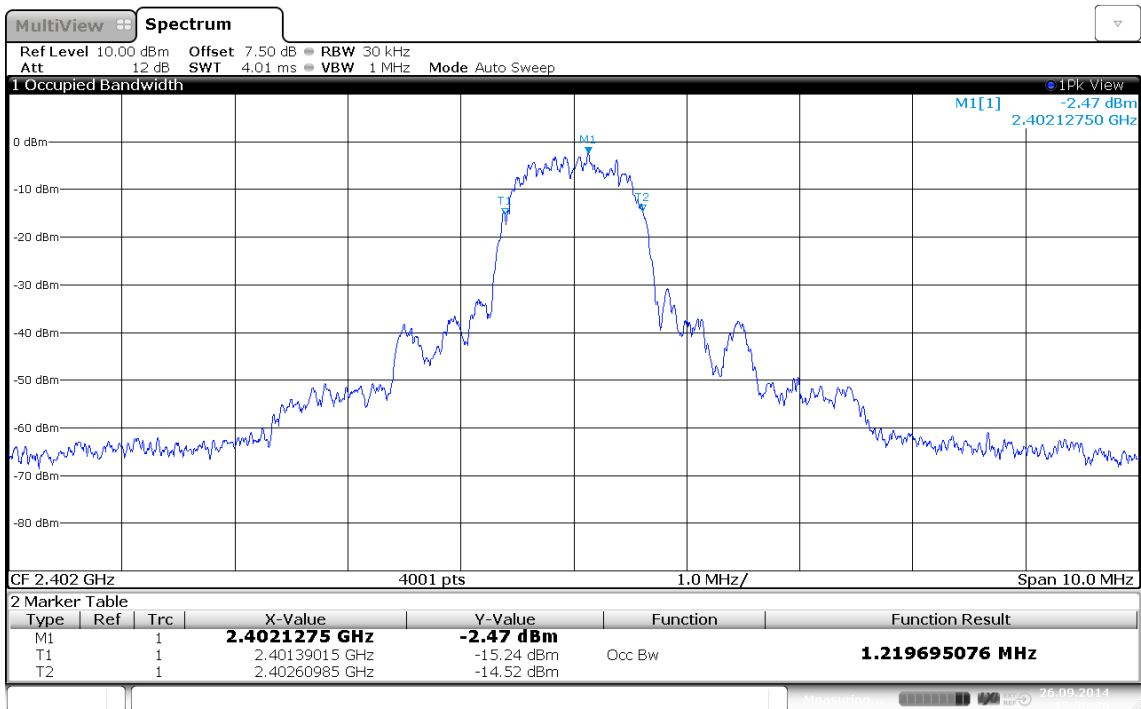


Occupied bandwidth: 1232.2 KHz  
 Date: 26.SEP.2014 12:44:15

**Occupied Bandwidth – 3-DH5-Sngl F<sub>LOW</sub>**
**Occupied Bandwidth acc. to RSS-Gen**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2402 MHz, 3-DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
 Note 2: conducted measurement



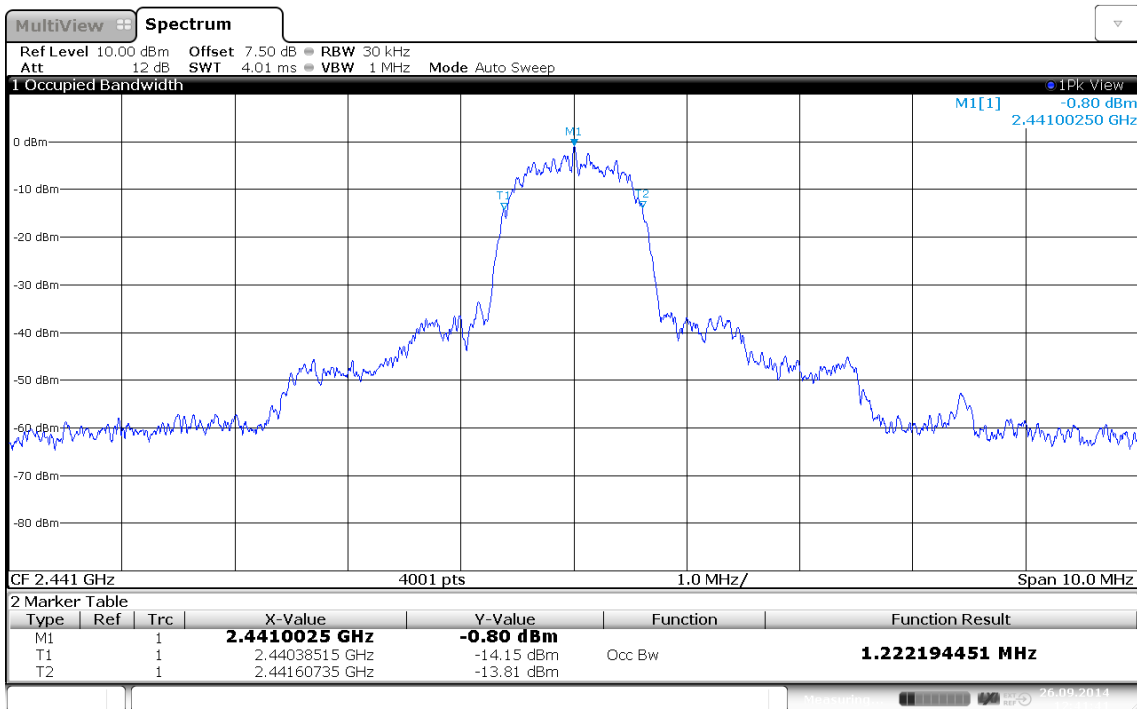
Occupied bandwidth: 1219.7 KHz  
 Date: 26.SEP.2014 12:38:26

Occupied Bandwidth – 3-DH5-Sngl F<sub>MID</sub>

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2441 MHz, 3-DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
 Note 2: conducted measurement



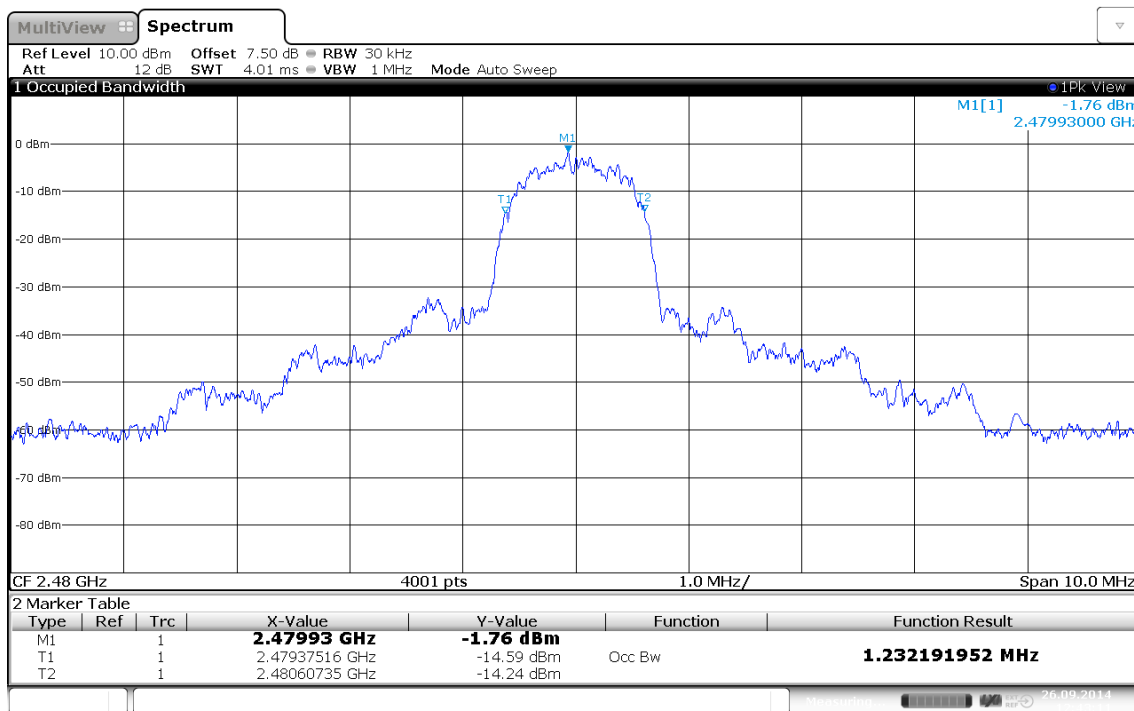
Occupied bandwidth: 1222.2 KHz  
 Date: 26.SEP.2014 12:41:40

**Occupied Bandwidth – 3-DH5-Sngl F<sub>HIGH</sub>**

**Occupied Bandwidth acc. to RSS-Gen**


Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2480 MHz, 3-DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used  
 Note 2: conducted measurement



Occupied bandwidth: 1232.2 KHz  
 Date: 26.SEP.2014 12:43:11

### 3.2 Test Conditions and Results – 20 dB Bandwidth

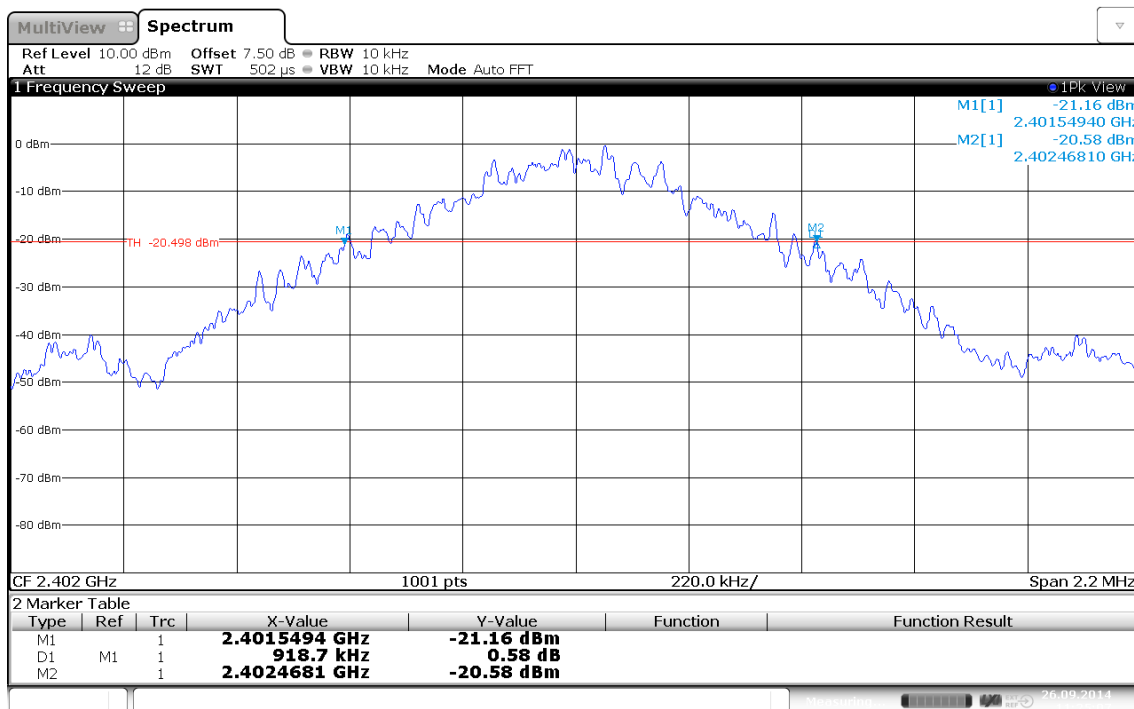
20 dB Bandwidth acc. FCC 15.247 / IC RSS-210				Verdict: PASS	
EUT requirement rule parts and clause		Reference			
		FCC 15.247(a)(1) / IC RSS-210 A8.1			
Test according to measurement reference		Reference Method			
		FCC Public Notice DA 00-705			
Test frequency range		Tested frequencies			
		$F_{LOW} / F_{MID} / F_{HIGH}$			
Limits					
Limit			Condition		
1.5 · Carrier spacing			Output power ≤ 125 mW / 21 dBm		
1.0 · Carrier spacing			125 mW / 21 dBm < Output power ≤ 1 W / 30 dBm		
Test setup					
					
Test procedure					
<ol style="list-style-type: none"> <li>EUT set to test mode (Communication tester is used if needed)</li> <li>Span set to at least twice the emission spectrum</li> <li>Detector set to peak and max hold</li> <li>Envelope peak value of emission spectrum is selected</li> <li>Marker on envelope of spectrum is set to level of -20 dB to the left of the peak</li> <li>Marker on envelope of spectrum is set to level of -20 dB to the right of the peak</li> <li>20dB Bandwidth is determined by marker frequency separation</li> </ol>					
Test results					
Channel	Frequency [MHz]	Mode	20 dB Bandwidth [MHz]	Limit [MHz]	Result
$F_{LOW}$	2402	DH5-Sngl	0.918	1.5	PASS
$F_{MID}$	2441	DH5-Sngl	0.919	1.5	PASS
$F_{HIGH}$	2480	DH5-Sngl	0.923	1.5	PASS
$F_{LOW}$	2402	2DH5-Sngl	1.312	1.5	PASS
$F_{MID}$	2441	2DH5-Sngl	1.321	1.5	PASS
$F_{HIGH}$	2480	2DH5-Sngl	1.323	1.5	PASS
$F_{LOW}$	2402	3DH5-Sngl	1.345	1.5	PASS
$F_{MID}$	2441	3DH5-Sngl	1.345	1.5	PASS
$F_{HIGH}$	2480	3DH5-Sngl	1.334	1.5	PASS
Comments:					

20 dB Bandwidth – DH5-Sngl F<sub>LOW</sub>

**20 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2402 MHz, DH-5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: FCC part 15 section 247 (a)  
 Note 2:



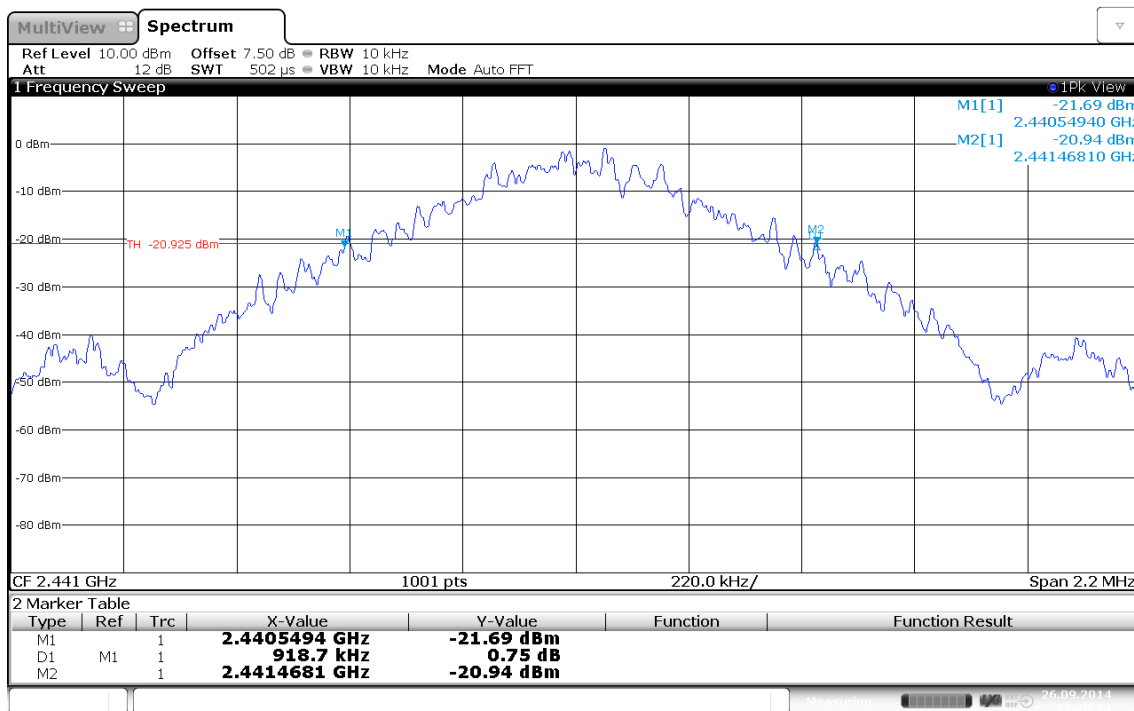
20 dB bandwidth: 918.7 KHz  
 Date: 26.SEP.2014 11:25:08

20 dB Bandwidth – DH5-Sngl F<sub>MID</sub>

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2441 MHz, DH-5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: FCC part 15 section 247 (a)  
 Note 2:

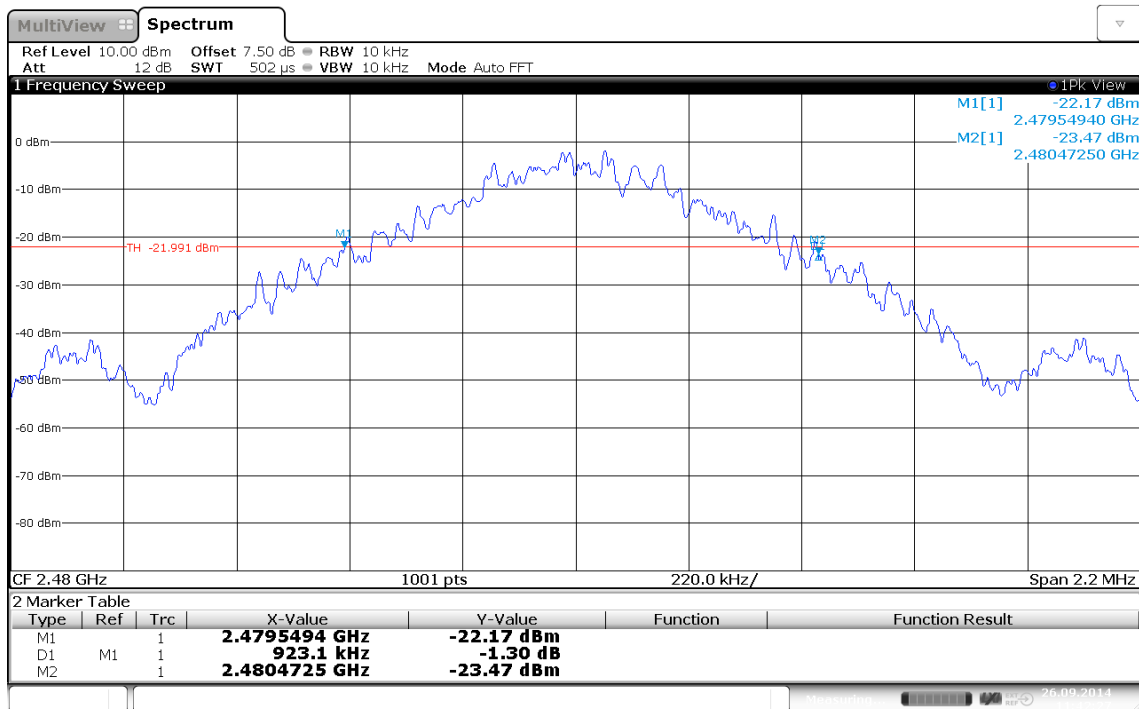


20 dB bandwidth: 918.7 KHz  
 Date: 26.SEP.2014 11:40:14

**20 dB Bandwidth – DH5-Sngl F<sub>HIGH</sub>**
**20 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2480 MHz, DH-5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: FCC part 15 section 247 (a)  
 Note 2:



20 dB bandwidth: 923.1 KHz  
 Date: 26.SEP.2014 11:42:27

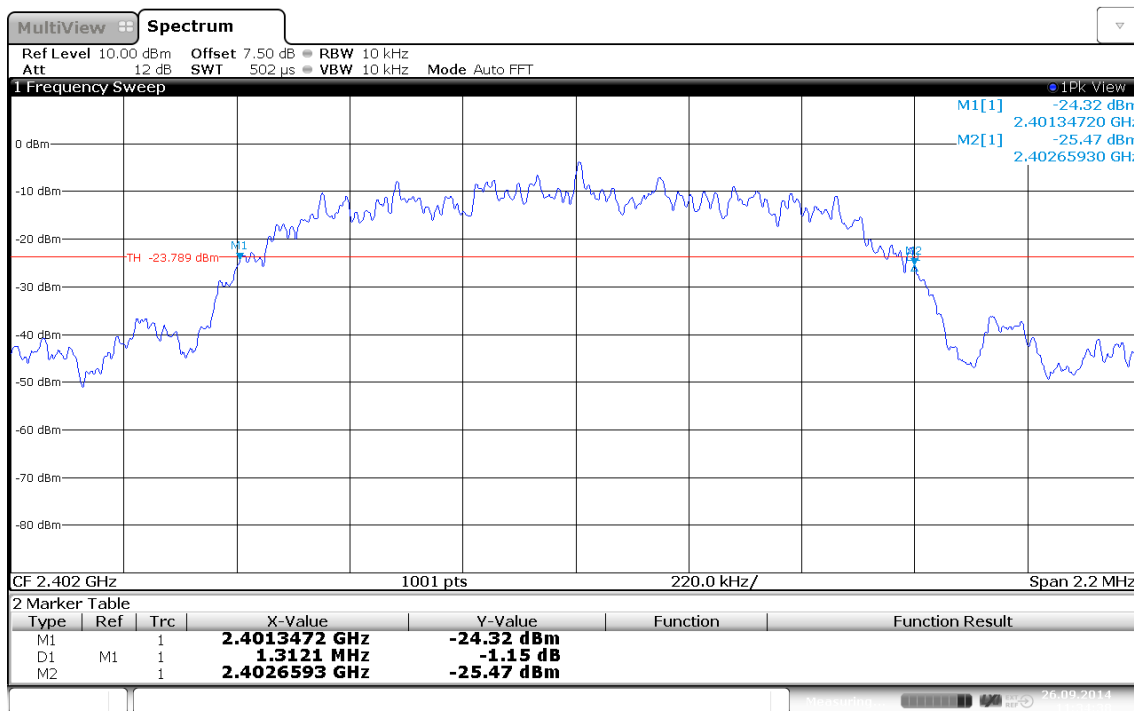


20 dB Bandwidth – 2-DH5-Sngl F<sub>Low</sub>

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2402 MHz, 2DH-5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: FCC part 15 section 247 (a)  
 Note 2:



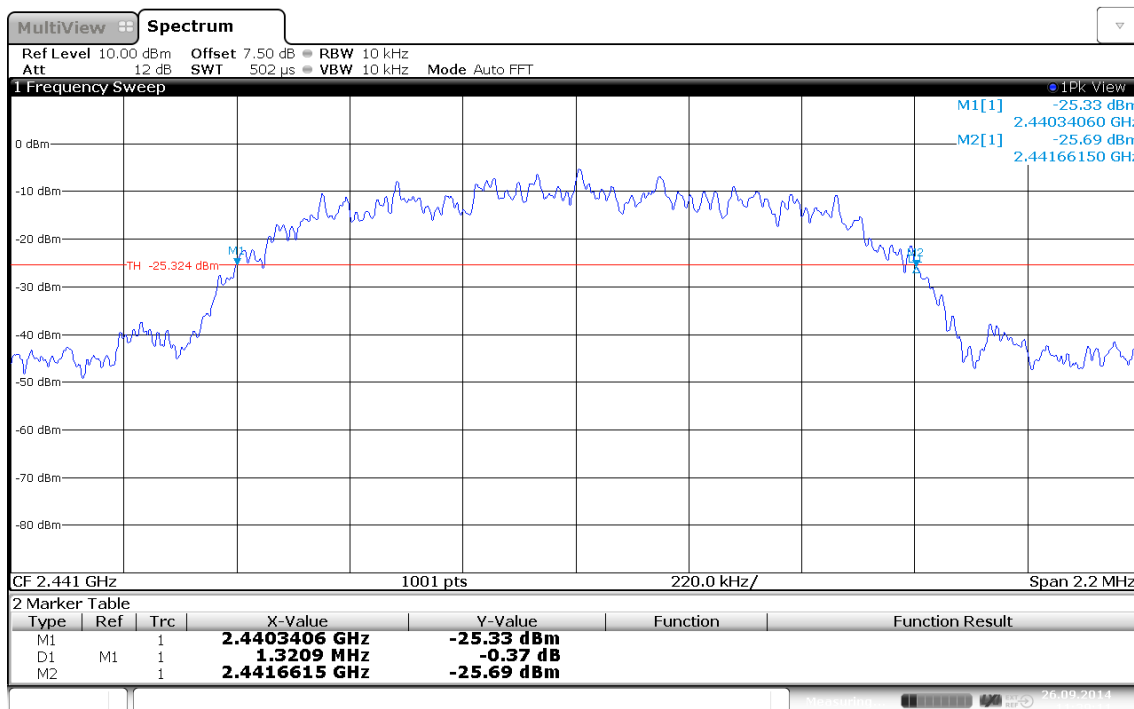
20 dB bandwidth: 1312.1 KHz  
 Date: 26.SEP.2014 11:34:38

20 dB Bandwidth – 2-DH5-Sngl F<sub>MID</sub>

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2441 MHz, 2DH-5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: FCC part 15 section 247 (a)  
 Note 2:



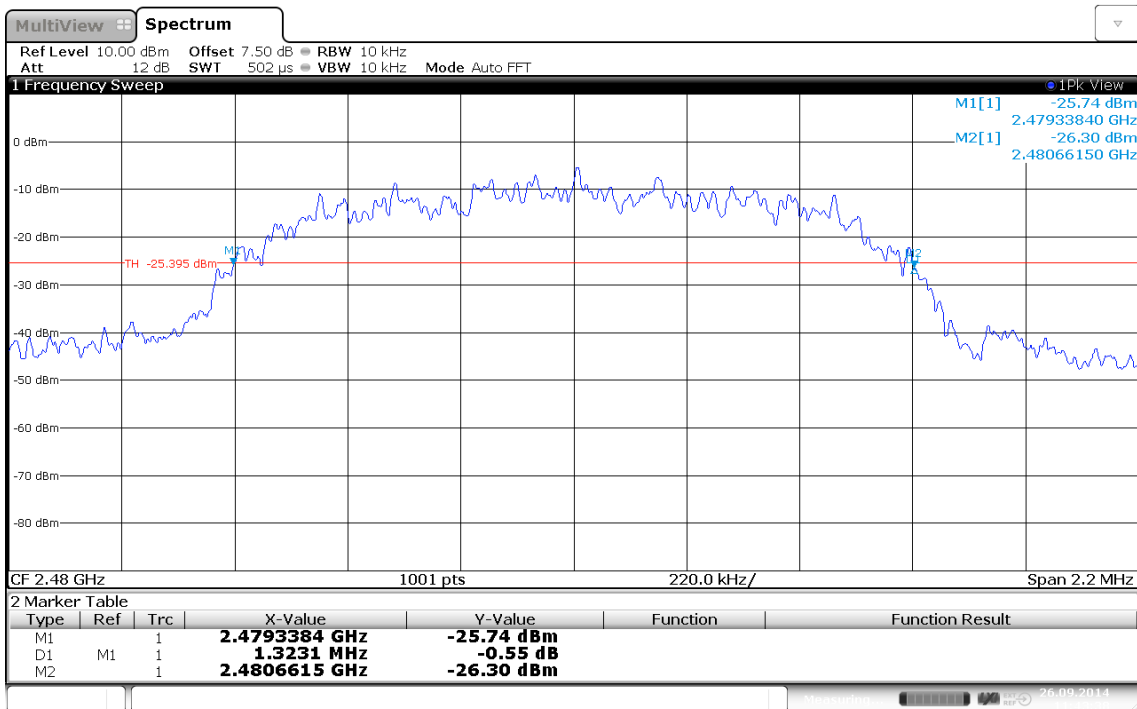
20 dB bandwidth: 1320.9 KHz  
 Date: 26.SEP.2014 11:39:11

20 dB Bandwidth – 2-DH5-Sngl F<sub>HIGH</sub>

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2480 MHz, 2DH-5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: FCC part 15 section 247 (a)  
 Note 2:



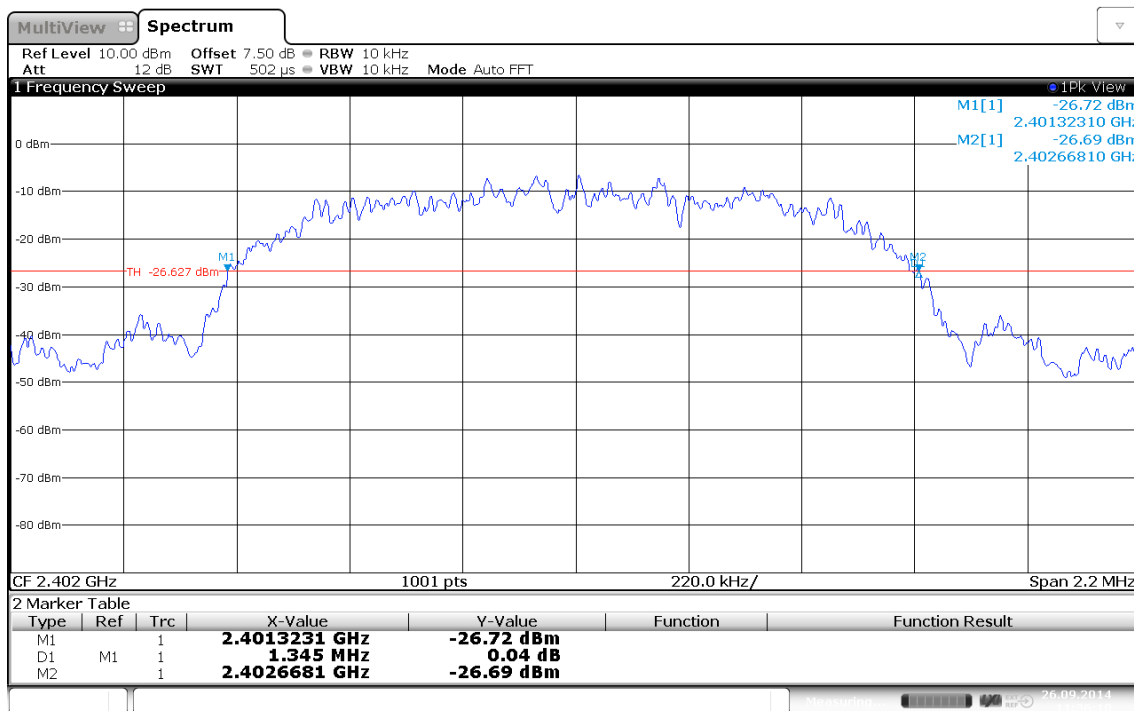
20 dB bandwidth: 1323.1 KHz  
 Date: 26.SEP.2014 11:43:37

20 dB Bandwidth – 3-DH5-Sngl F<sub>Low</sub>

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2402 MHz, 3DH-5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: FCC part 15 section 247 (a)  
 Note 2:



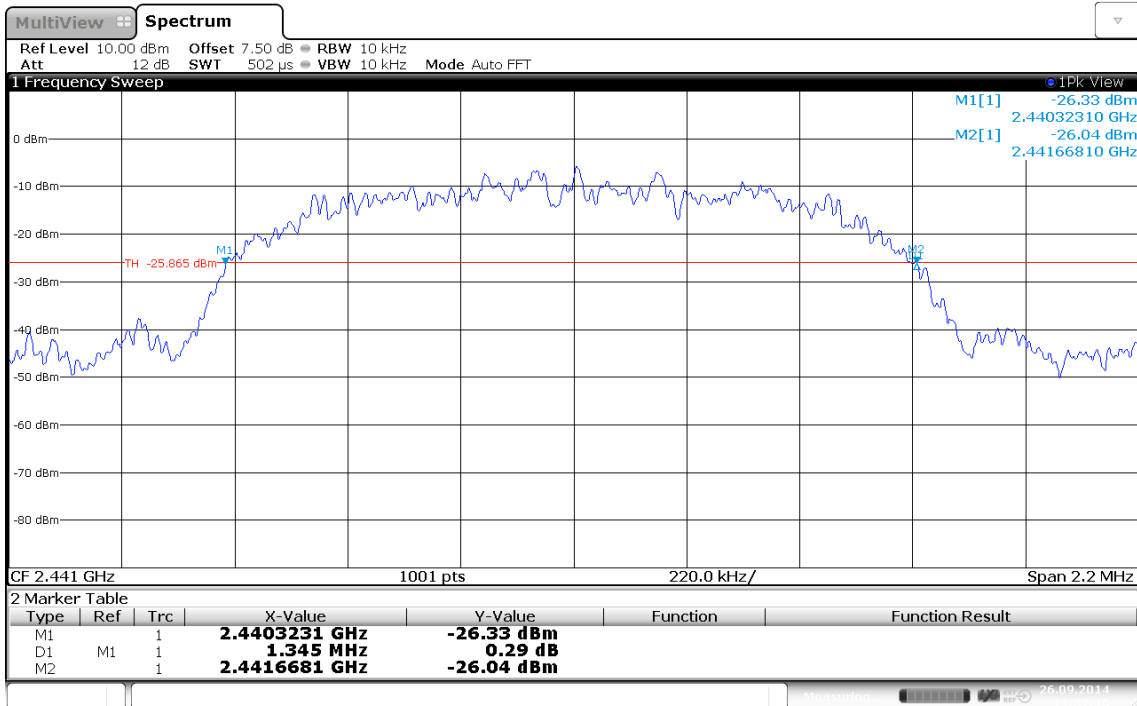
20 dB bandwidth: 1345 KHz  
 Date: 26.SEP.2014 11:36:10

20 dB Bandwidth – 3-DH5-Sngl F<sub>MID</sub>

**20 dB Bandwidth acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2441 MHz, 3DH-5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: FCC part 15 section 247 (a)  
 Note 2:

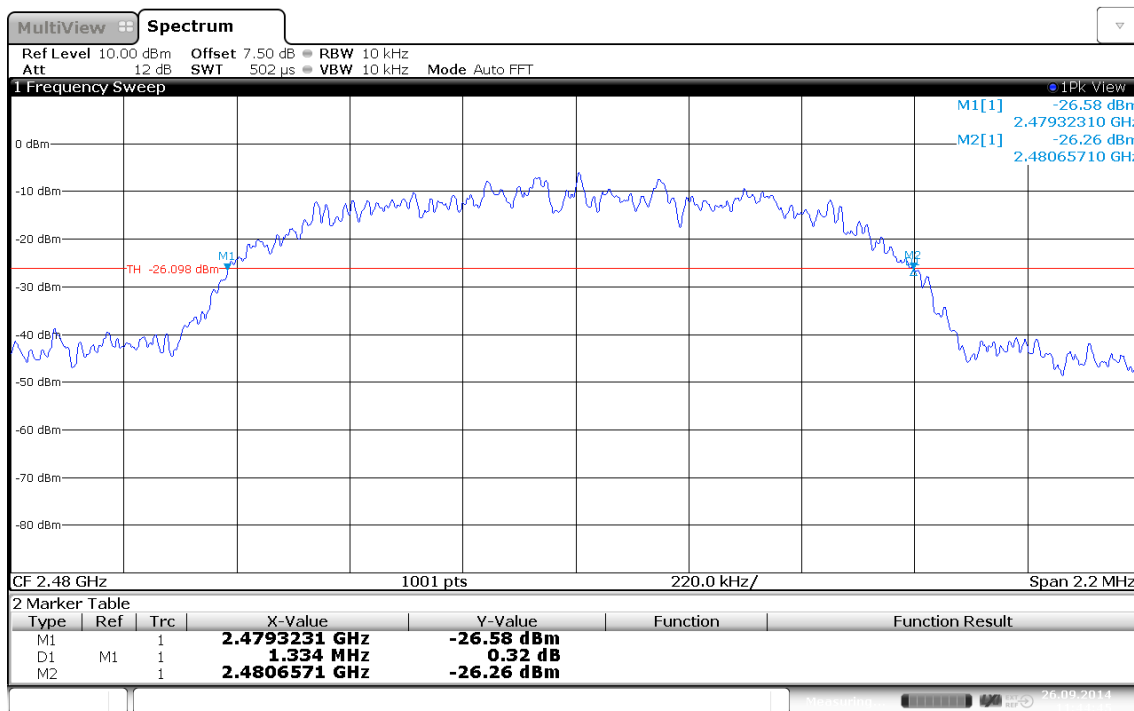


20 dB bandwidth: 1345 KHz  
 Date: 26.SEP.2014 11:37:46

**20 dB Bandwidth – 3-DH5-Sngl F<sub>HIGH</sub>**
**20 dB Bandwidth acc. to FCC 15.247**

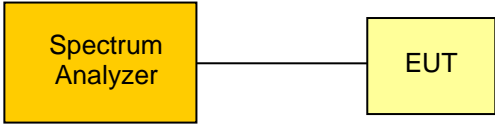
Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2480 MHz, 3DH-5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: FCC part 15 section 247 (a)  
 Note 2:



20 dB bandwidth: 1334 KHz  
 Date: 26.SEP.2014 11:44:45

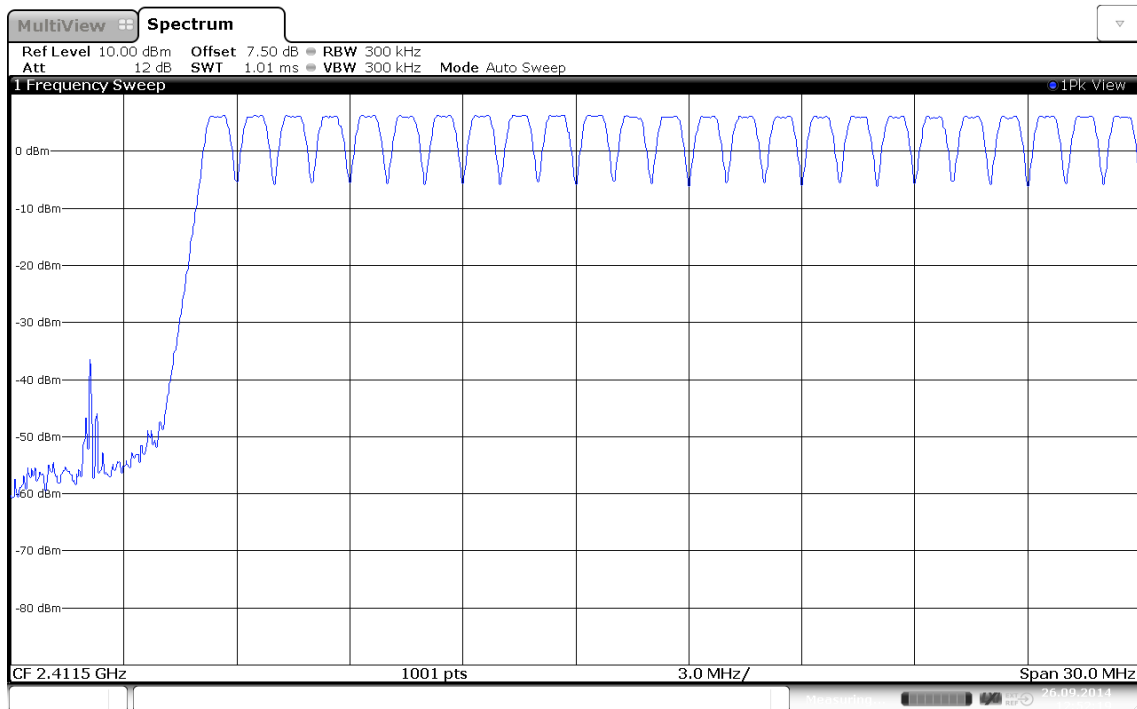
**3.3 Test Conditions and Results – Number of hopping frequencies**

<b>Number of hopping frequencies acc. FCC 15.247 / IC RSS-210</b>		<b>Verdict: PASS</b>
EUT requirement rule parts and clause	Reference	
	FCC 15.247(a)(1)(iii) / IC RSS-210 A8.1	
Test according to measurement reference	Reference Method	
	FCC Public Notice DA 00-705	
Test frequency range	Tested frequencies	
	$F_{LOW} - F_{HIGH}$	
EUT test mode	DH5-Hop	
<b>Limits</b>		
Limit	Condition	
Number of hopping channels $\geq 15$	Output power $\leq 125$ mW / 21 dBm	
Number of hopping channels $\geq 75$	125 mW / 21 dBm < Output power $\leq 1$ W / 30 dBm	
<b>Test setup</b>		
 <pre> graph LR     SA[Spectrum Analyzer] --- EUT[EUT]             </pre>		
<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. Span set to measurement frequency range</li> <li>3. Detector set to peak and max hold</li> <li>4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra</li> <li>5. The number of peaks is counted to determine number of hopping frequencies</li> </ol>		
<b>Test results</b>		
Number of hopping frequencies	Limit	Result
79	$\geq 15$	PASS
Comments:		

**Number of hopping frequencies - Range A**
**Number of Hopping Frequencies acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, DH5, hopping mode  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Number of Hopping Frequencies (DA 00-705 Meas Guidance)  
 Note 2: conducted measurement



Number of hopping frequencies  
 Date: 26.SEP.2014 12:52:18

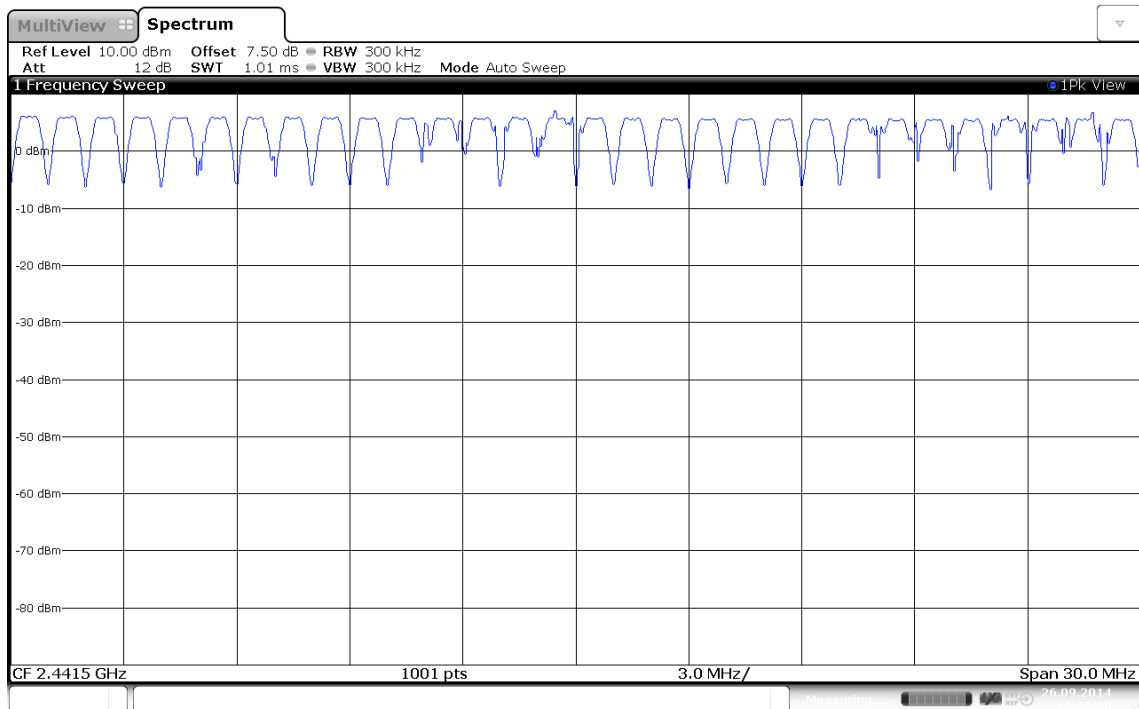


**Number of hopping frequencies - Range B**

**Number of Hopping Frequencies acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, DH5, hopping mode  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Number of Hopping Frequencies (DA 00-705 Meas Guidance)  
 Note 2: conducted measurement

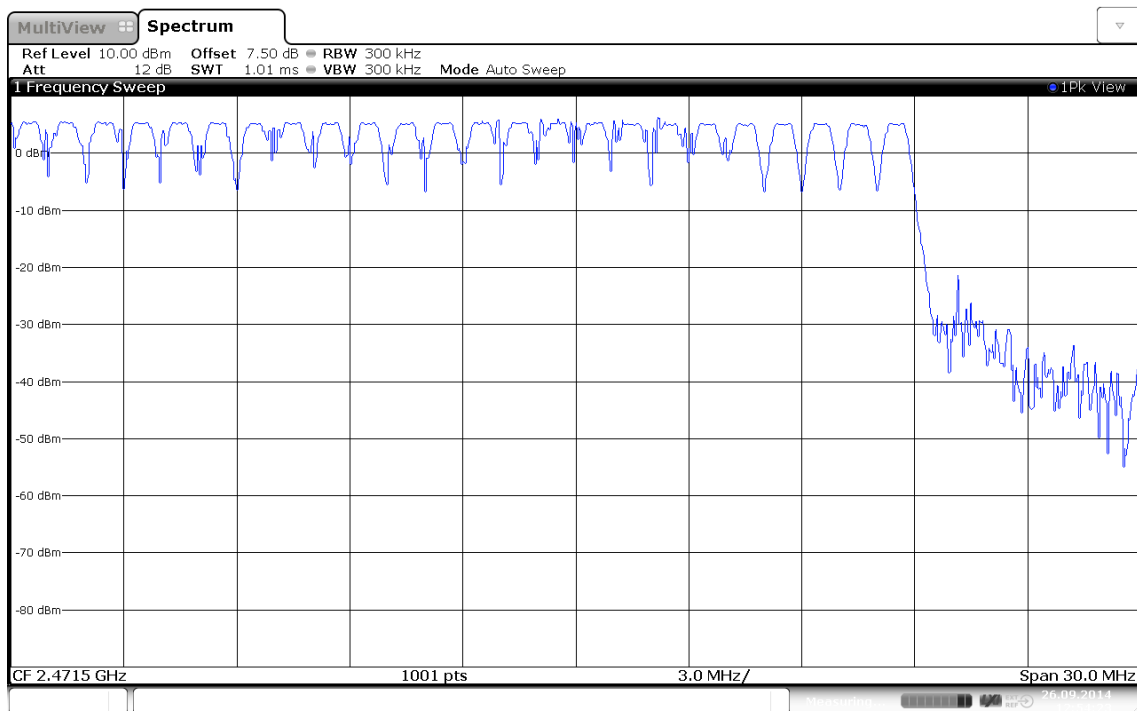


Number of hopping frequencies  
 Date: 26.SEP.2014 12:53:28

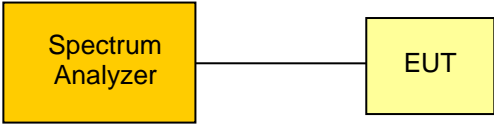
**Number of hopping frequencies - Range C**
**Number of Hopping Frequencies acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Toralf Jahn
Test Conditions:	Tnom / Vnom
Mode:	Tx, DH5, hopping mode
Test Date:	2014-09-26
Verdict:	PASS
Note 1:	Number of Hopping Frequencies (DA 00-705 Meas Guidance)
Note 2:	conducted measurement


 Number of hopping frequencies  
 Date: 26.SEP.2014 12:54:24

**3.4 Test Conditions and Results – Frequency hopping channel separation**

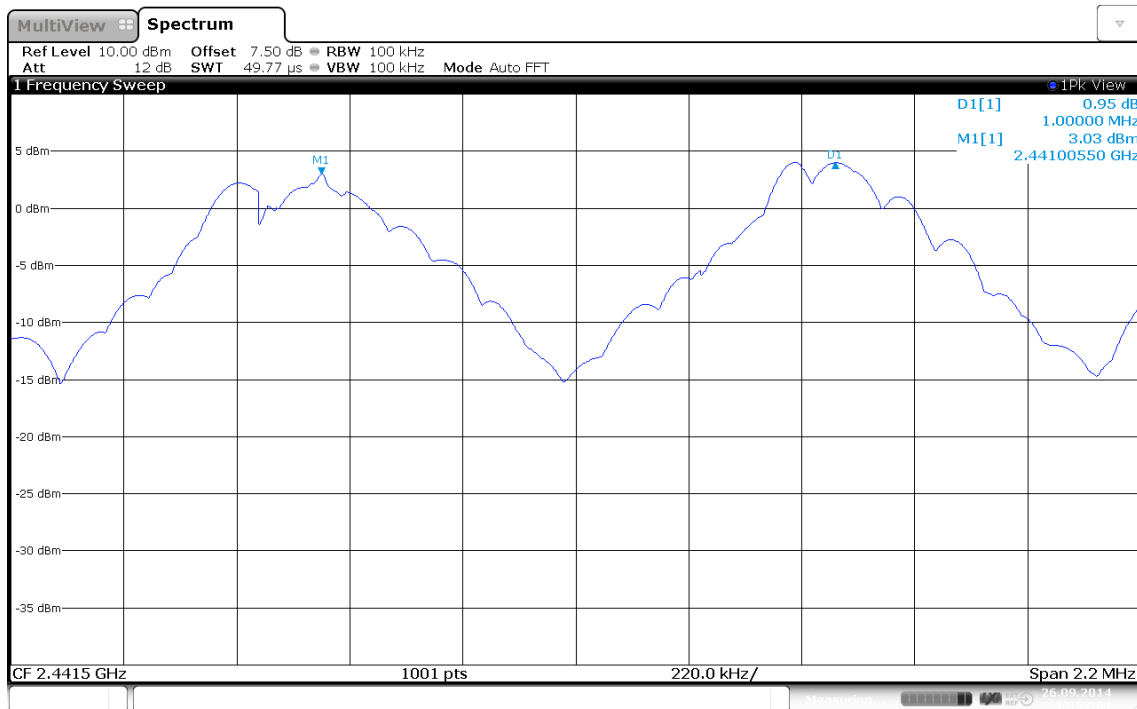
<b>Frequency hopping channel separation acc. FCC 15.247 / IC RSS-210</b>		<b>Verdict: PASS</b>
EUT requirement rule parts and clause	Reference	
	FCC 15.247(a)(1) / IC RSS-210 A8.1	
Test according to measurement reference	Reference Method	
	FCC Public Notice DA 00-705	
Test frequency range	Tested frequencies	
	2441 & 2442 MHz	
EUT test mode	DH5-Hop	
<b>Limits</b>		
Limit	Condition	
$\geq 25$ kHz or $\frac{2}{3}$ of 20 dB bandwidth	Output power $\leq 125$ mW / 21 dBm	
$\geq 25$ kHz or 20 dB bandwidth	125 mW / 21 dBm < Output power $\leq 1$ W / 30 dBm	
<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. Span set to measurement frequency range</li> <li>3. Detector set to peak and max hold</li> <li>4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra</li> <li>5. The two adjacent channel peaks are marked</li> <li>6. Channel separation is determined from frequency separation of markers</li> </ol>		
<b>Test results</b>		
Channel separation [kHz]	Limit [kHz]	Result
1000	$\geq \frac{2}{3} \cdot 918 = 612$	PASS
Comments:		

Frequency hopping channel separation

**Carrier Frequency Separation acc. to FCC 15.247**


Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, DH5, hopping mode  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Carrier Frequency Separation (DA 00-705 Meas Guidance)  
 Note 2: conducted measurement



Limit: > two-thirds of the 20 dB bandwidth ; Result: Pass  
 Date: 26.SEP.2014 12:57:51

**3.5 Test Conditions and Results – Time of occupancy (Dwell Time)**

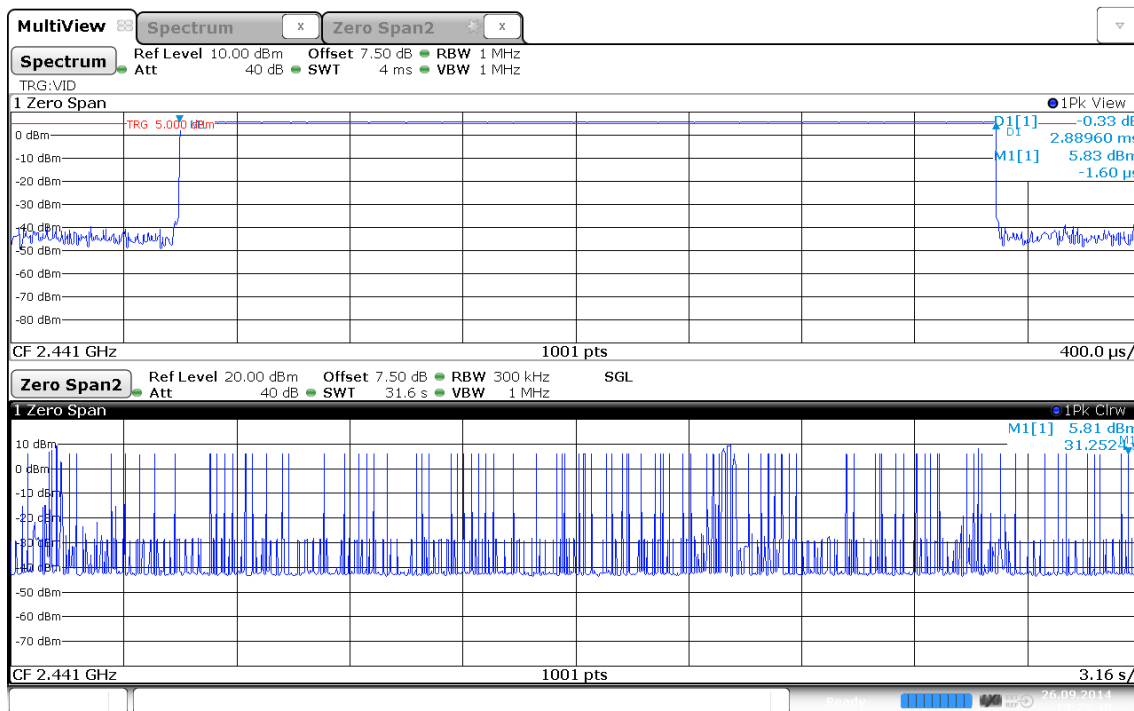
Time of occupancy (Dwell time) acc. FCC 15.247 / IC RSS-210				Verdict: PASS	
EUT requirement rule parts and clause	Reference				
	FCC 15.247(a)(1)(iii) / IC RSS-210 A8.1				
Test according to measurement reference	Reference Method				
	FCC Public Notice DA 00-705				
Test frequency range	Tested frequencies				
	2441 MHz				
EUT test mode	DH5-Hop				
<b>Limits</b>					
Limit					
Time of occupancy $\leq 0.4$ s within 0.4 s · Number of hopping channels					
<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 zero span and detector to peak and max hold</li> <li>4. Resolution bandwidth is set to 100kHz and sweep time to observation period</li> <li>5. Time of occupancy determined from number of peaks multiplied by single hop dwell time</li> </ol>					
<b>Test results</b>					
Observation period [s]	No. of hops	Dwell time/hop [ms]	Time of occupancy [s]	Limit [s]	Result
31.6	96	2.89	0.277	$\leq 0.4$	PASS
Comments:					

**Time of occupancy**

**Time of Occupancy acc. to FCC 15.247**

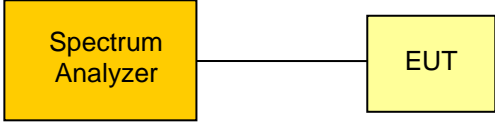
Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, DH5, channel 2441MHz, hopping mode  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: 96 events \* 2.89 ms; Result: 277.44ms Limit<0.4s  
 Note 2: conducted measurement, (DA 00-705 Meas Guidance)



Burst length= ms  
 Date: 26.SEP.2014 13:23:40

**3.6 Test Conditions and Results – Maximum peak conducted power**

<b>Maximum peak conducted power acc. FCC 15.247 / IC RSS-210</b>		<b>Verdict: PASS</b>
EUT requirement rule parts and clause	Reference	
	FCC 15.247(b)(1) / IC RSS-210 A8.4	
Test according to measurement reference	Reference Method	
	FCC Public Notice DA 00-705	
Test frequency range	Tested frequencies	
	$F_{\text{LOW}} / F_{\text{MID}} / F_{\text{HIGH}}$	
Measurement mode	Peak	
Maximum antenna gain	5 dBi $\Rightarrow$ Limit correction = 0 dB	
<b>Limits</b>		
Limit	Condition	
1 W (30 dBm)	Number of hopping channels $\geq$ 75	
0.125 W (21 dBm)	75 > Number of hopping channels $\geq$ 15	
<p>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.</p>		
<b>Test setup</b>		
 <pre> graph LR     SA[Spectrum Analyzer] --- EUT[EUT]             </pre>		
<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]	Limit [dBm]	Margin [dB]	Result
F <sub>LOW</sub>	2402	3.7 VDC	DH5-Sngl	6.2	30	-23.80	PASS
F <sub>MID</sub>	2441	3.7 VDC	DH5-Sngl	5.8	30	-24.20	PASS
F <sub>HIGH</sub>	2480	3.7 VDC	DH5-Sngl	5.2	30	-24.80	PASS
F <sub>LOW</sub>	2402	3.7 VDC	2DH5-Sngl	6.5	30	-23.50	PASS
F <sub>MID</sub>	2441	3.7 VDC	2DH5-Sngl	5.8	30	-24.20	PASS
F <sub>HIGH</sub>	2480	3.7 VDC	2DH5-Sngl	5.2	30	-24.80	PASS
F <sub>LOW</sub>	2402	3.7 VDC	3DH5-Sngl	6.9	30	-23.10	PASS
F <sub>MID</sub>	2441	3.7 VDC	3DH5-Sngl	6.3	30	-23.70	PASS
F <sub>HIGH</sub>	2480	3.7 VDC	3DH5-Sngl	5.7	30	-24.30	PASS
Comments:							



**3.7 Test Conditions and Results – AC power line conducted emissions**

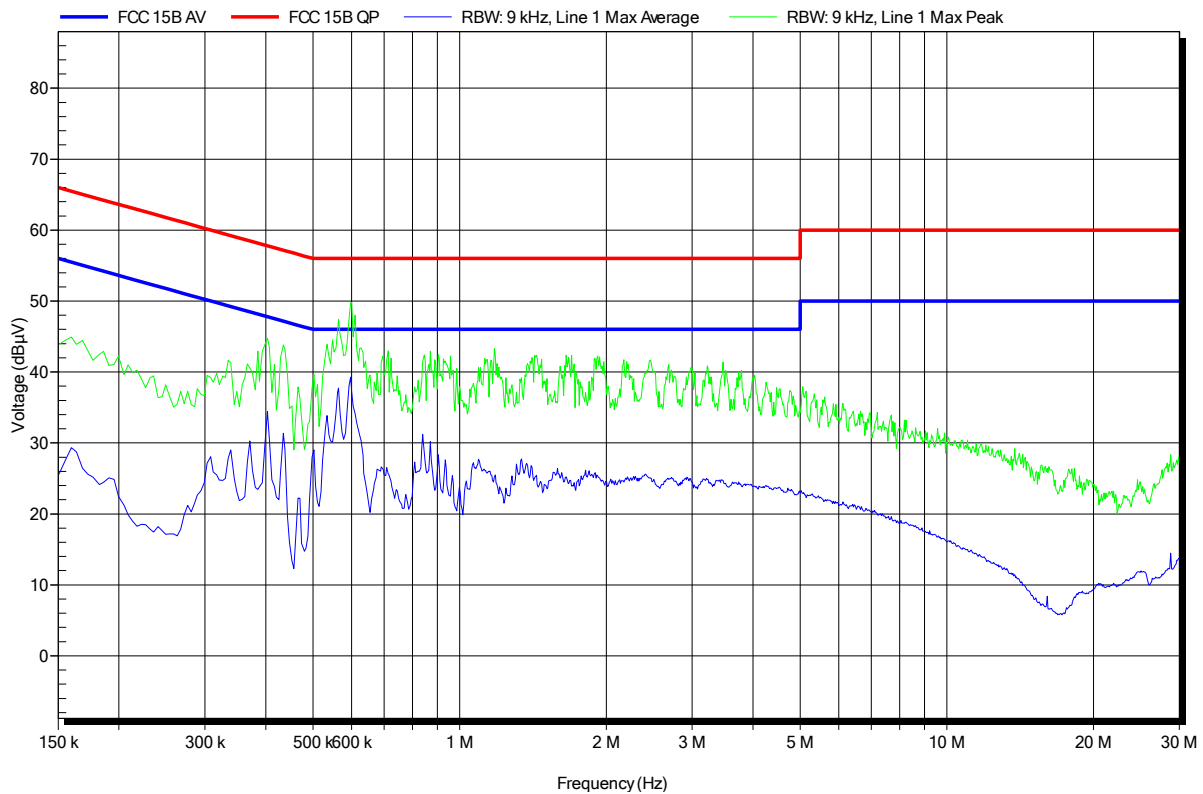
<b>Power line conducted emissions acc. FCC 47 CFR 15.207 / IC RSS-Gen</b>		<b>Verdict: PASS</b>		
Test according referenced standards	Reference Method			
	ANSI C63.4			
Fully configured sample scanned over the following frequency range	Frequency range			
	0.15 MHz to 30 MHz			
Points of Application	Application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

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

Project number: G0M-1407-3973

Manufacturer:	BARTEC PIXA VI AS
EUT Name:	Smartphone
Model:	Impact X
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pflug
Test Conditions:	Tnom: 23°C, Unom: 120VAC(AC/DC-adapter,AN4111)
LISN:	ESH2-Z5 L
Mode:	charging+GSM900MHz,p15+WLAN
Test Date:	2014-08-26
Note:	

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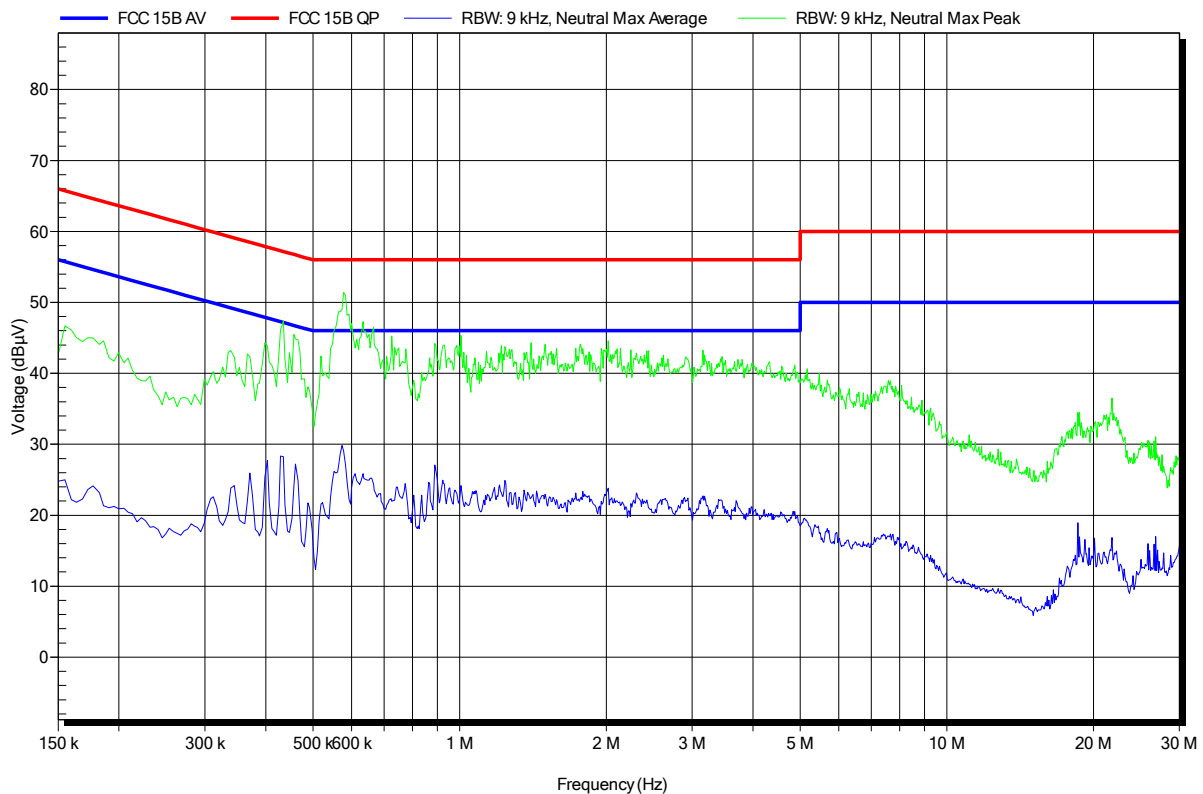


**EMI voltage test in the ac-mains according to FCC part 15 b**


Project number: G0M-1407-3973

Manufacturer:	BARTEC PIXA VI AS
EUT Name:	Smartphone
Model:	Impact X
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Pflug
Test Conditions:	Tnom: 25°C, Unom: 120VAC(AC/DC-adapter,AN4111)
LISN:	ESH2-Z5 N
Mode:	charging+GSM900MHz,p15+WLAN
Test Date:	2014-08-26
Note:	

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**3.8 Test Conditions and Results – Band edge compliance**

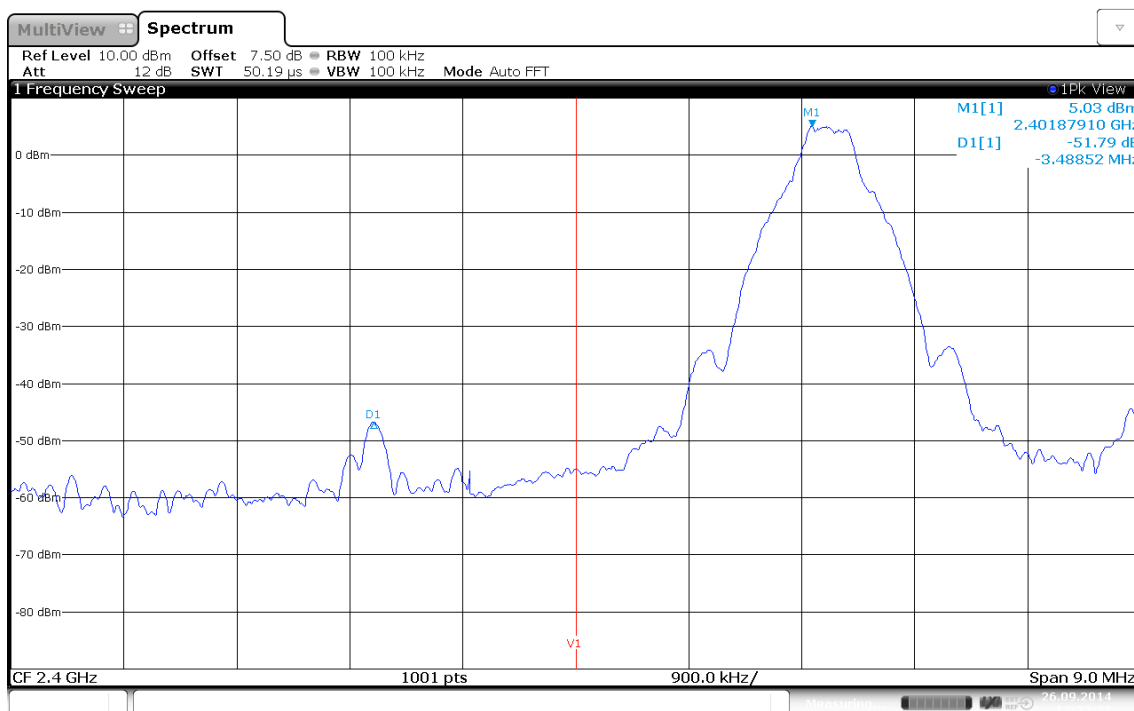
Band-edge compliance acc. FCC 15.247 / IC RSS-210				Verdict: PASS		
EUT requirement rule parts and clause	Reference					
	FCC 15.247(d) / IC RSS-210 A8.5					
Test according to measurement reference	Reference Method					
	FCC Public Notice DA 00-705					
Test frequency range	Tested frequencies					
	$F_{LOW} / F_{HIGH}$					
Measurement mode	Peak					
Limits						
Limit			Condition			
$\leq -20$ dB/100 kHz			Peak power measurement detector = Peak			
$\leq -30$ dB/100 kHz			Peak power measurement detector = RMS			
Test setup						
 <pre> graph LR     SA[Spectrum Analyzer] --- EUT[EUT]             </pre>						
Test procedure						
<ol style="list-style-type: none"> <li>EUT set to test mode (Communication tester is used if needed)</li> <li>Span set around lower band edge and detector is set to peak and max hold</li> <li>Resolution bandwidth is set to 100 kHz</li> <li>Markers are set to peak emission levels within frequency band and outside frequency band</li> <li>Band edge attenuation is determined from level difference</li> </ol>						
Test results						
Channel	Frequency [MHz]	Mode	Level [dBc]	Limit [dBc]	Margin [dB]	Result
$F_{LOW}$	2402	DH5-Sngl	-51.9	-20	-31.90	PASS
$F_{HIGH}$	2480	DH5-Sngl	-43.6	-20	-23.60	PASS
$F_{LOW}$	2402	DH5-Hop	-59.7	-20	-39.70	PASS
$F_{HIGH}$	2480	DH5-Hop	-57.7	-20	-37.70	PASS
$F_{LOW}$	2402	2DH5-Sngl	-38.9	-20	-18.90	PASS
$F_{HIGH}$	2480	2DH5-Sngl	-48.0	-20	-28.00	PASS
$F_{LOW}$	2402	2DH5-Hop	-47.5	-20	-27.50	PASS
$F_{HIGH}$	2480	2DH5-Hop	-50.3	-20	-30.30	PASS

F <sub>LOW</sub>	2402	3DH5-Sngl	-45.9	-20	-25.90	PASS
F <sub>HIGH</sub>	2480	3DH5-Sngl	-47.9	-20	-27.90	PASS
F <sub>LOW</sub>	2402	3DH5-Hop	-47.5	-20	-27.50	PASS
F <sub>HIGH</sub>	2480	3DH5-Hop	-48.4	-20	-28.40	PASS
Comments:						

**Band-edge compliance – DH5-Sngl F<sub>Low</sub>**
**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, DH5, 2402 MHz  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement

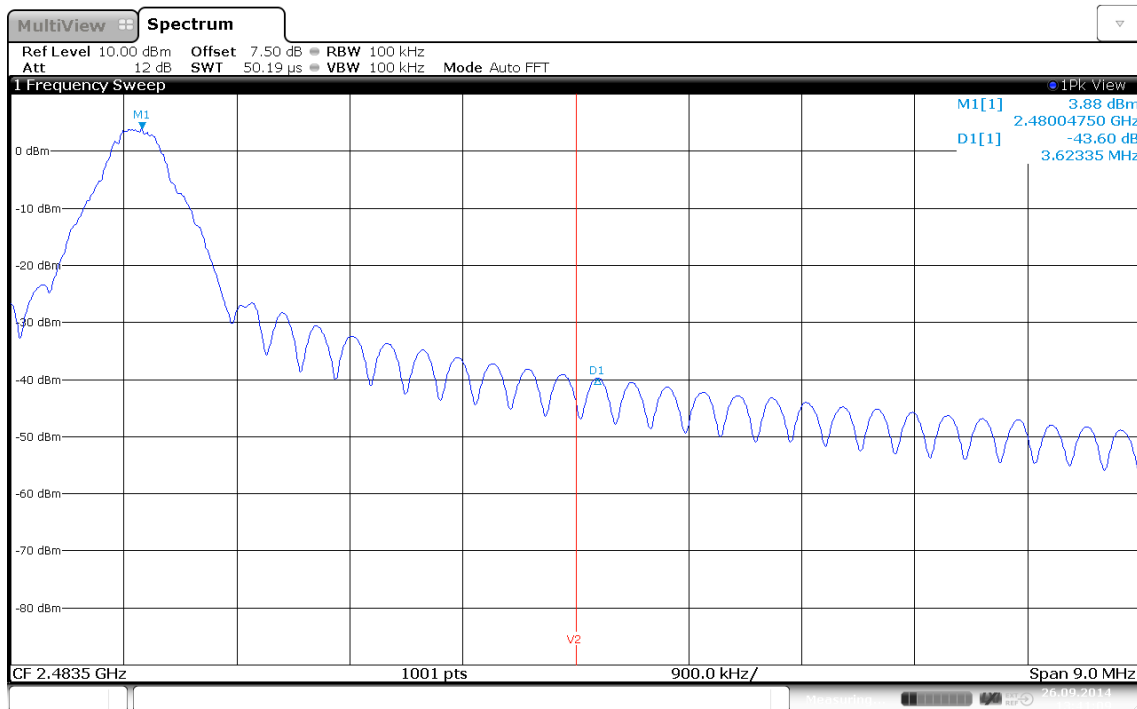


Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:32:31

**Band-edge compliance – DH5-Sngl F<sub>HIGH</sub>**
**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, DH5, 2480 MHz  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement

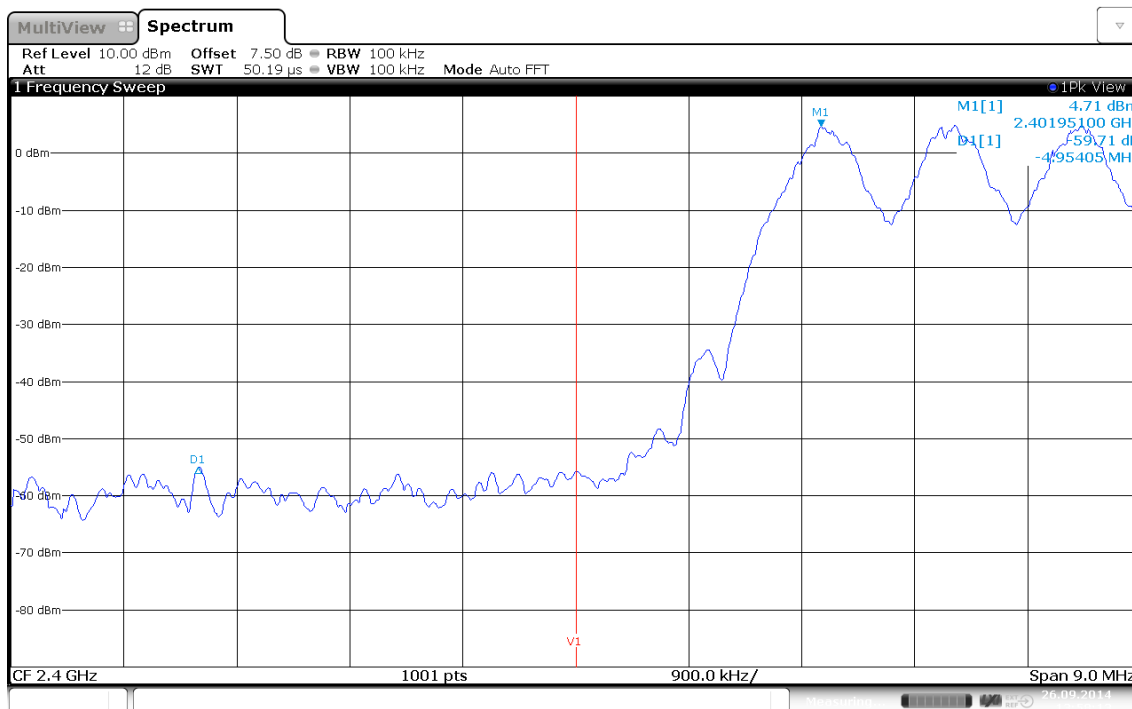


Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:41:09

**Band-edge compliance – DH5-Hop F<sub>LOW</sub>**
**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, DH5, 2402 MHz, hopping  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement



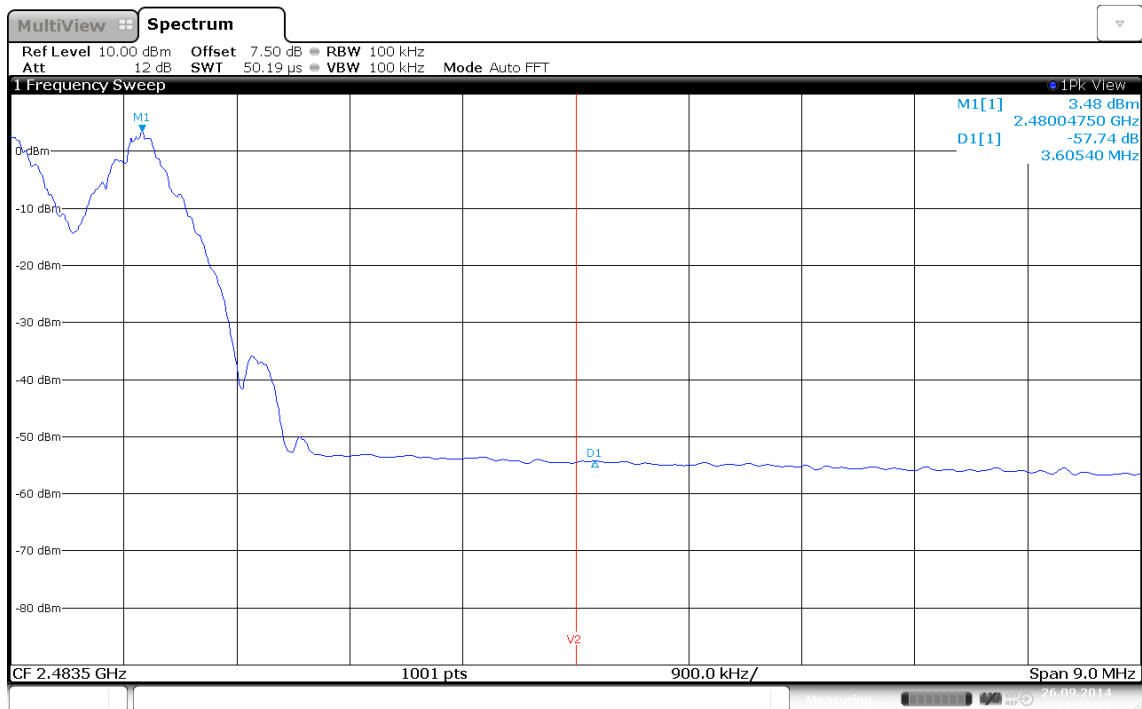
Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:58:13



**Band-edge compliance – DH5-Hop F<sub>HIGH</sub>**
**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, DH5, 2480 MHz, hopping  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement

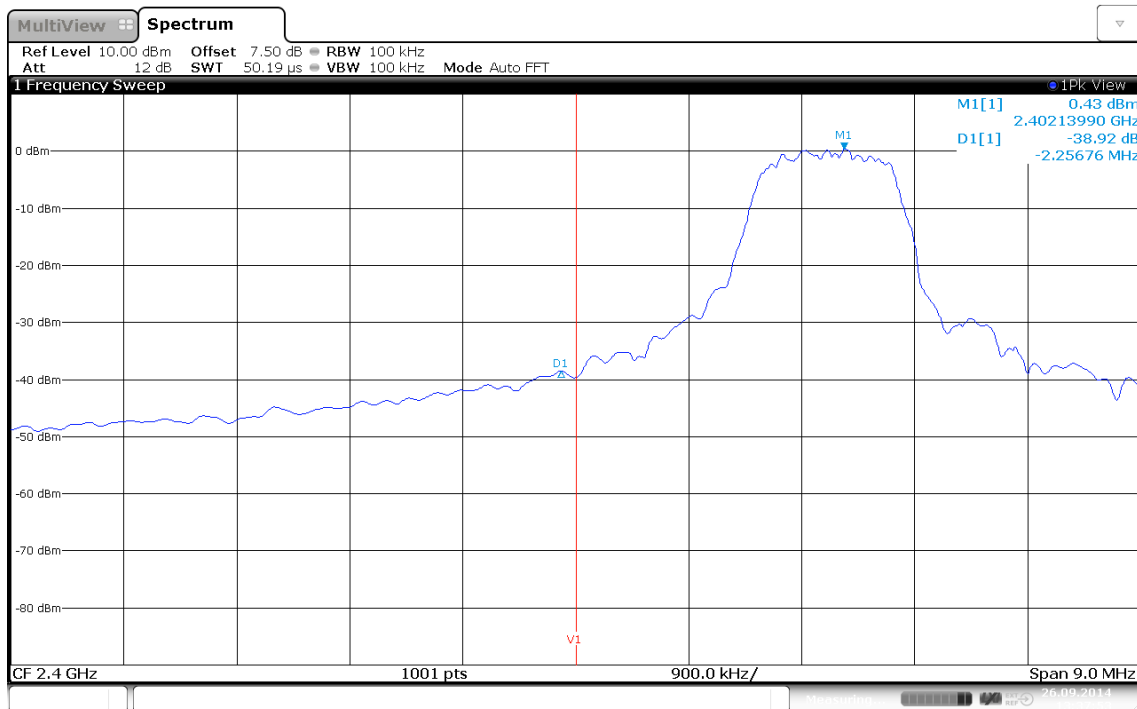


Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:53:43

**Band-edge compliance – 2-DH5-Sngl F<sub>LOW</sub>**
**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, 2-DH5, 2402 MHz  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement

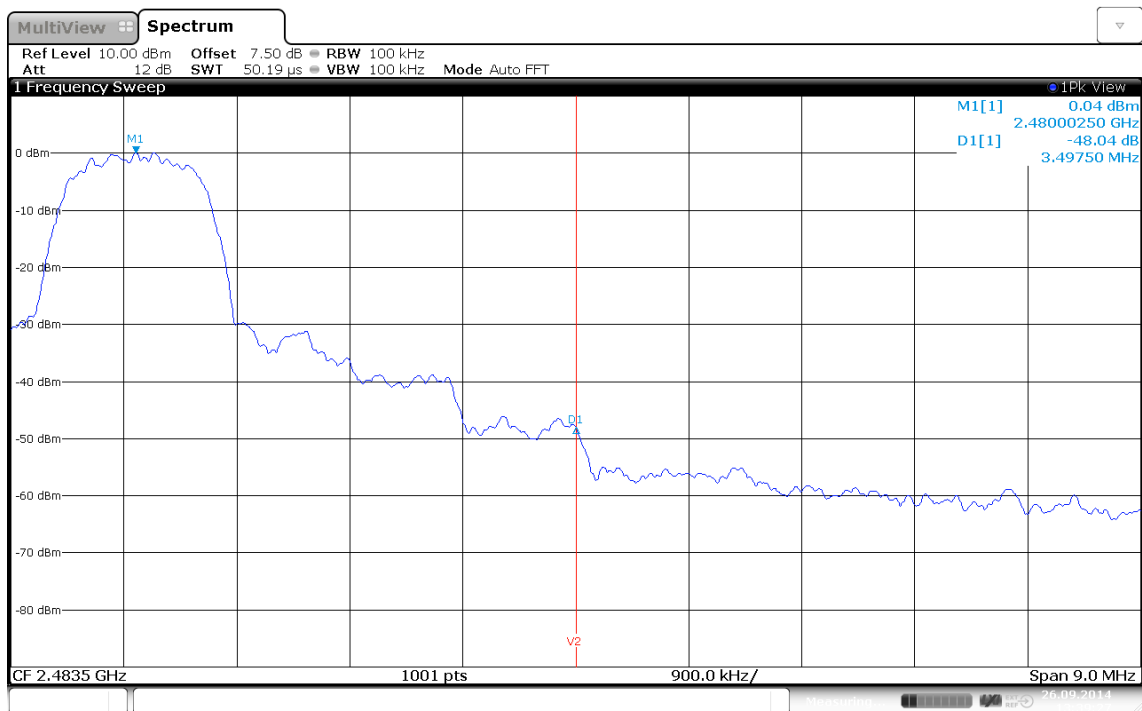


Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:37:53

**Band-edge compliance – 2-DH5-Sngl F<sub>HIGH</sub>**
**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, 2-DH5, 2480 MHz  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement

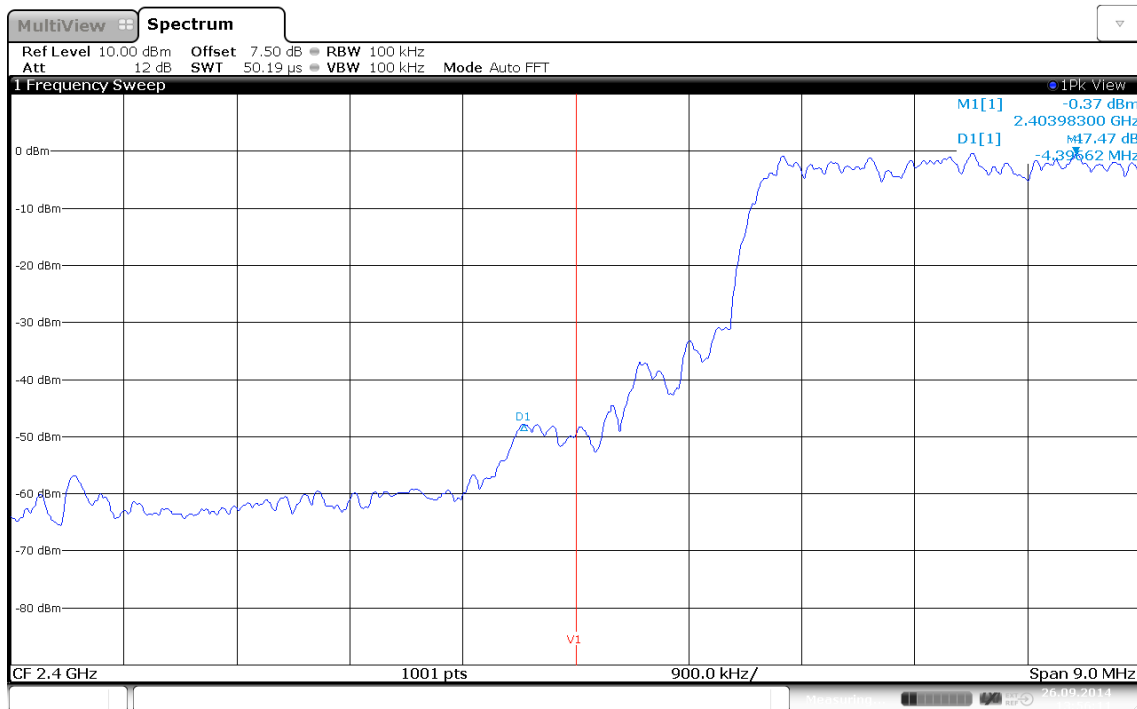


Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:39:27

**Band-edge compliance – 2-DH5-Hop F<sub>LOW</sub>**
**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, 2-DH5, 2402 MHz, hopping  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement

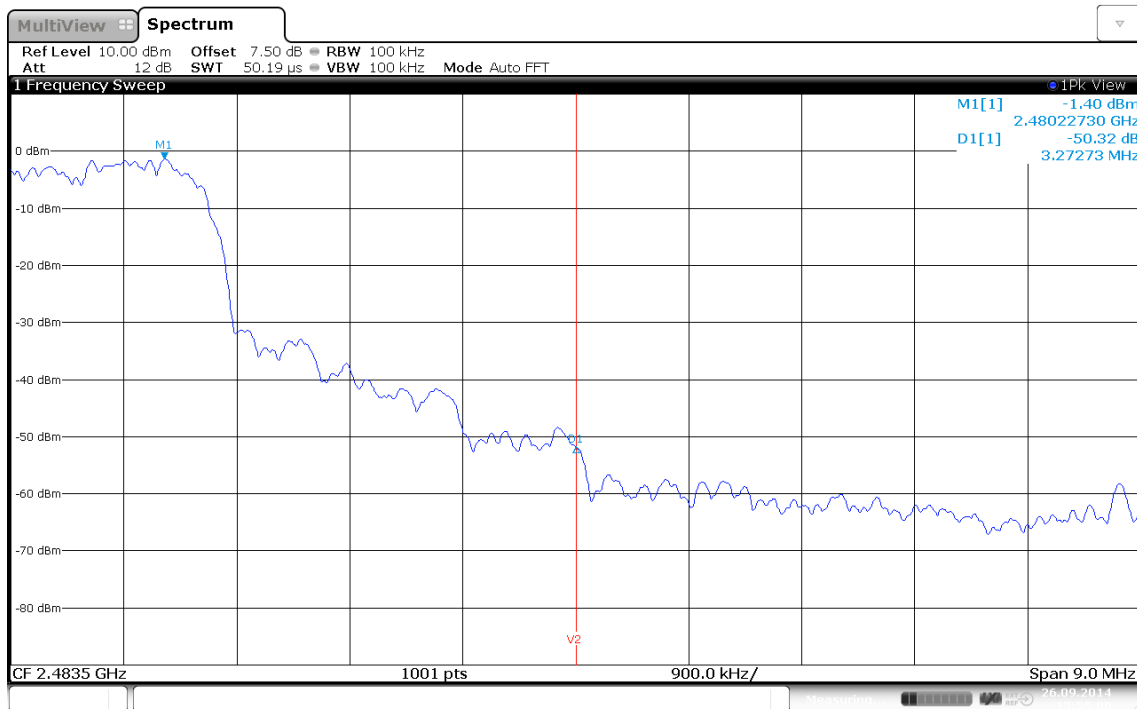


Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:56:11

**Band-edge compliance – 2-DH5-Hop F<sub>HIGH</sub>**
**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, 2-DH5, 2480 MHz, hopping  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement

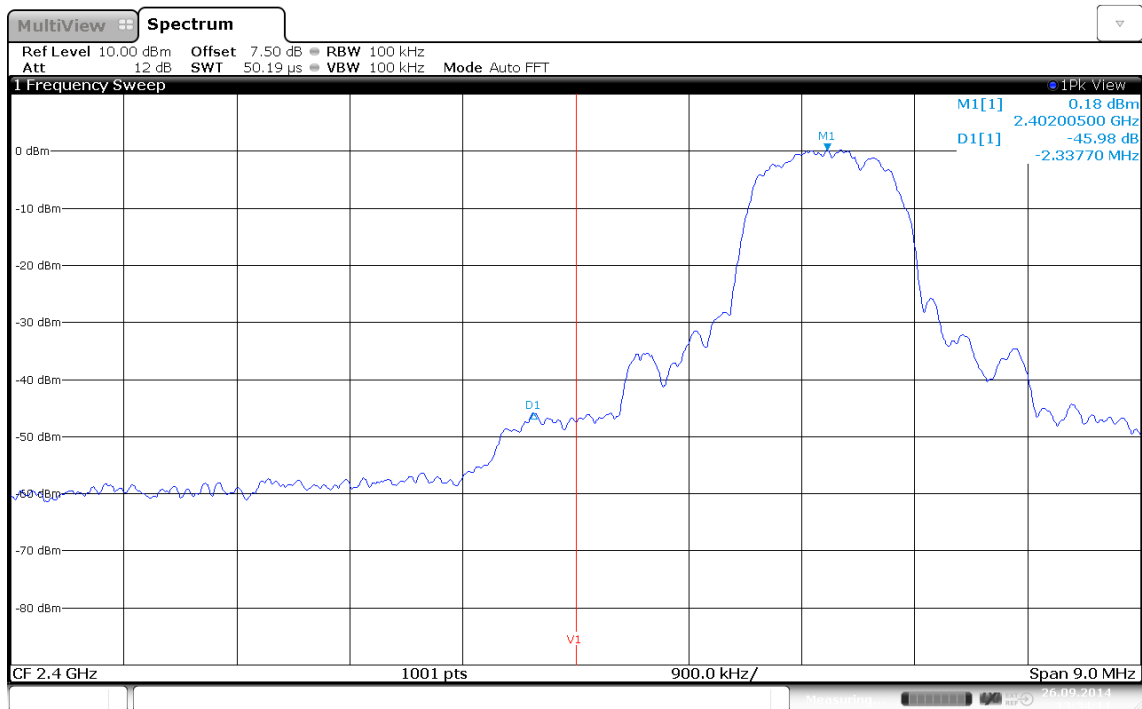


Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:55:00

**Band-edge compliance – 3-DH5-Sngl F<sub>LOW</sub>**
**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, 3-DH5, 2402 MHz  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement

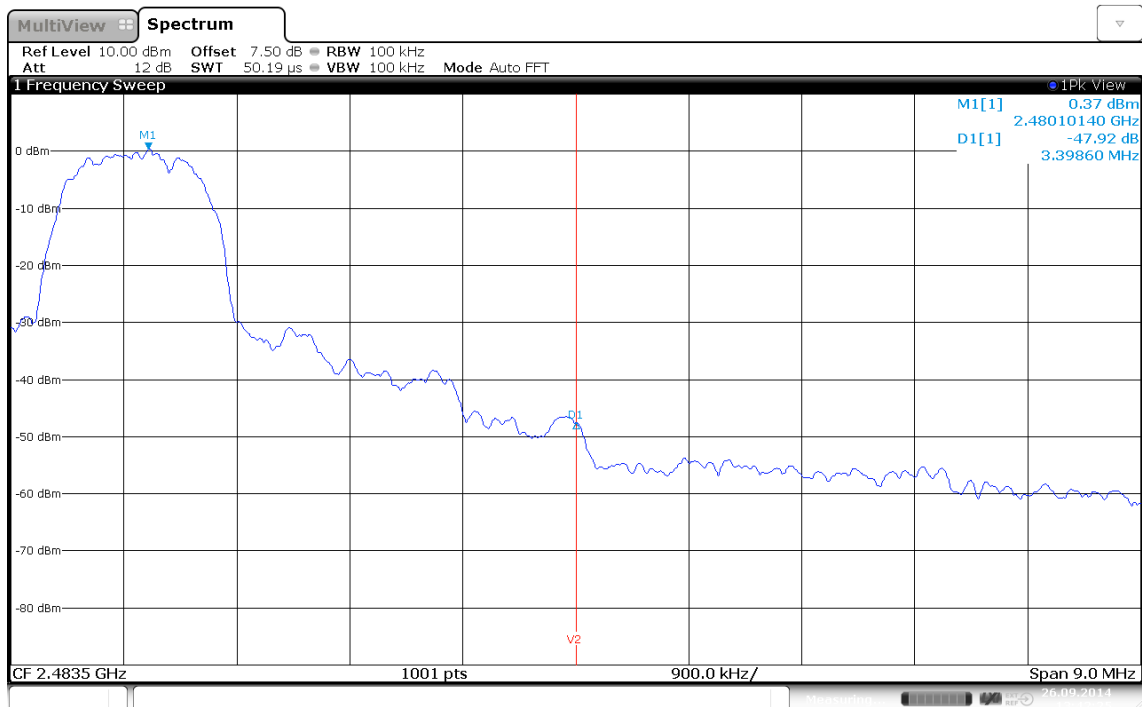


Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:34:12

**Band-edge compliance – 3-DH5-Sngl F<sub>HIGH</sub>**
**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, 3-DH5, 2480 MHz  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement

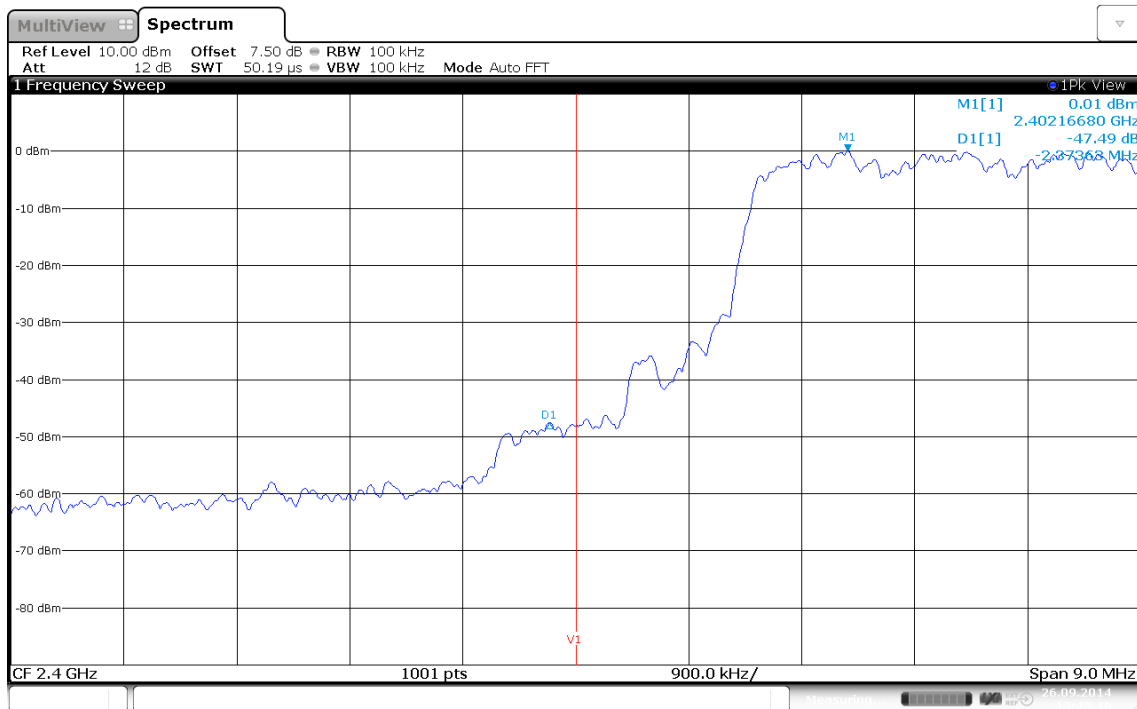


Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:42:25

**Band-edge compliance – 3-DH5-Hop F<sub>LOW</sub>**
**Band-edge compliance acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, 3-DH5, 2402 MHz, hopping  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement



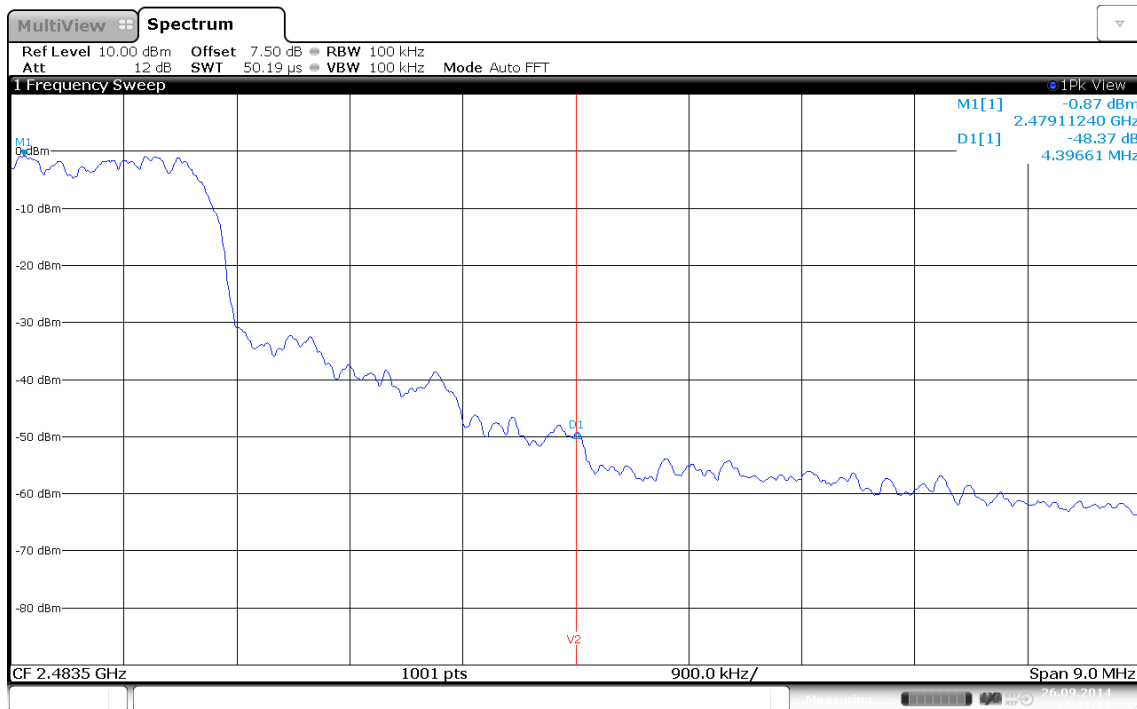
Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:49:46



**Band-edge compliance – 3-DH5-Hop F<sub>HIGH</sub>**
**Band-edge compliance acc. to FCC 15.247**

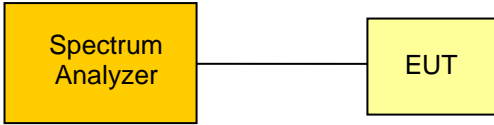
Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, 3-DH5, 2480 MHz, hopping  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Marker-delta method (DA 00-705 Meas Guidance)  
 Note 2: upper Band-edge, conducted measurement



Limit: Marker Delta value >20 dB; Result: PASS  
 Date: 26.SEP.2014 13:51:43

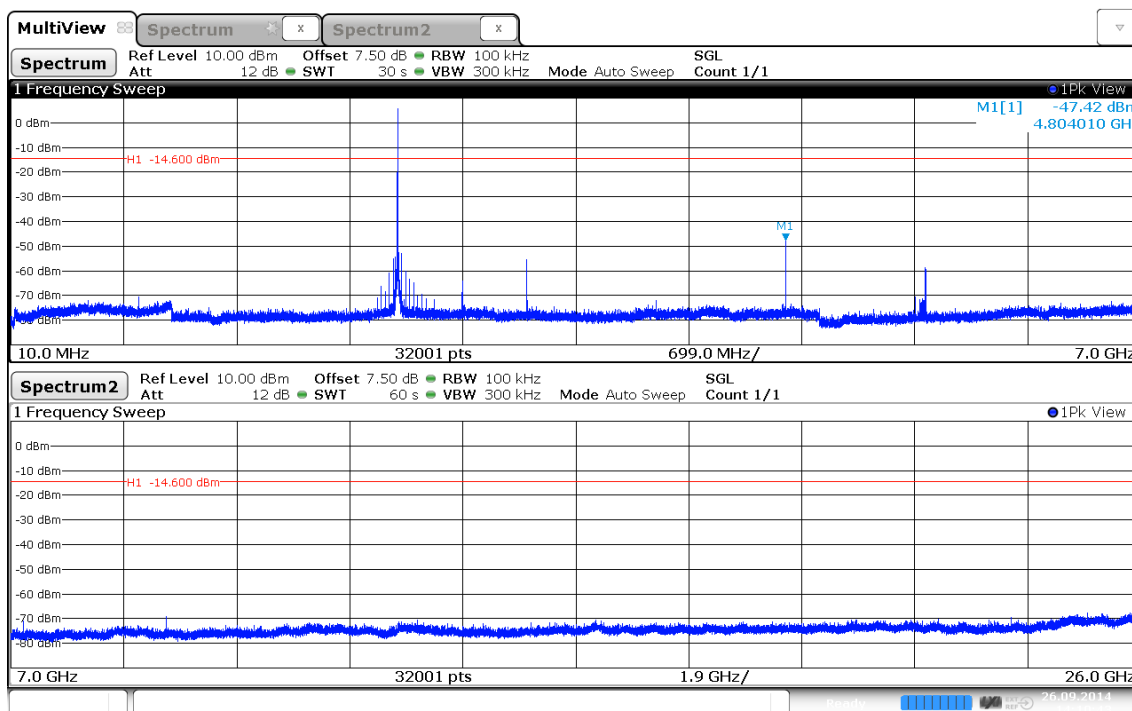
## 3.9 Test Conditions and Results – Conducted spurious emissions

Conducted spurious emissions acc. FCC 15.247 / IC RSS-210				Verdict: PASS			
EUT requirement rule parts and clause		Reference					
		FCC 15.247(d) / IC RSS-210 A8.5					
Test according to measurement reference		Reference Method					
		FCC Public Notice DA 00-705					
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							
 <pre> graph LR     SA[Spectrum Analyzer] --- EUT[EUT]             </pre>							
Test procedure							
<ol style="list-style-type: none"> <li>1. EUT set to test mode (Communication tester is used if needed)</li> <li>2. Span it set according to measurement range</li> <li>3. Resolution bandwidth is set to 100 kHz and detector to peak and max hold</li> <li>4. Markers are set to peak emission levels within frequency band</li> <li>5. Emission level is determined by second marker on emission peak</li> <li>6. Attenuation is determined from level difference</li> </ol>							
Test results							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Emission Level [dbm]	Limit [dBm]	Margin [dB]	Result
F <sub>LOW</sub>	2402	DH5-Sngl	4804	-47.4	-14.6	-32.8	PASS
F <sub>MID</sub>	2441	DH5-Sngl	4882	-41.8	-14.8	-27.0	PASS
F <sub>HIGH</sub>	2480	DH5-Sngl	4960	-42.8	-15.4	-27.4	PASS
F <sub>LOW</sub>	2402	3DH5-Sngl	4804	-52.1	-18.7	-33.4	PASS
F <sub>MID</sub>	2441	3DH5-Sngl	4882	-46.9	-18.6	-28.3	PASS
F <sub>HIGH</sub>	2480	3DH5-Sngl	4960	-50.5	-19.1	-31.4	PASS
Comments:							

**Conducted spurious emissions – DH5-Sngl F<sub>Low</sub>**
**Spurious Emissions acc. to FCC 15.247**

Project Number: G0M-1407-3973

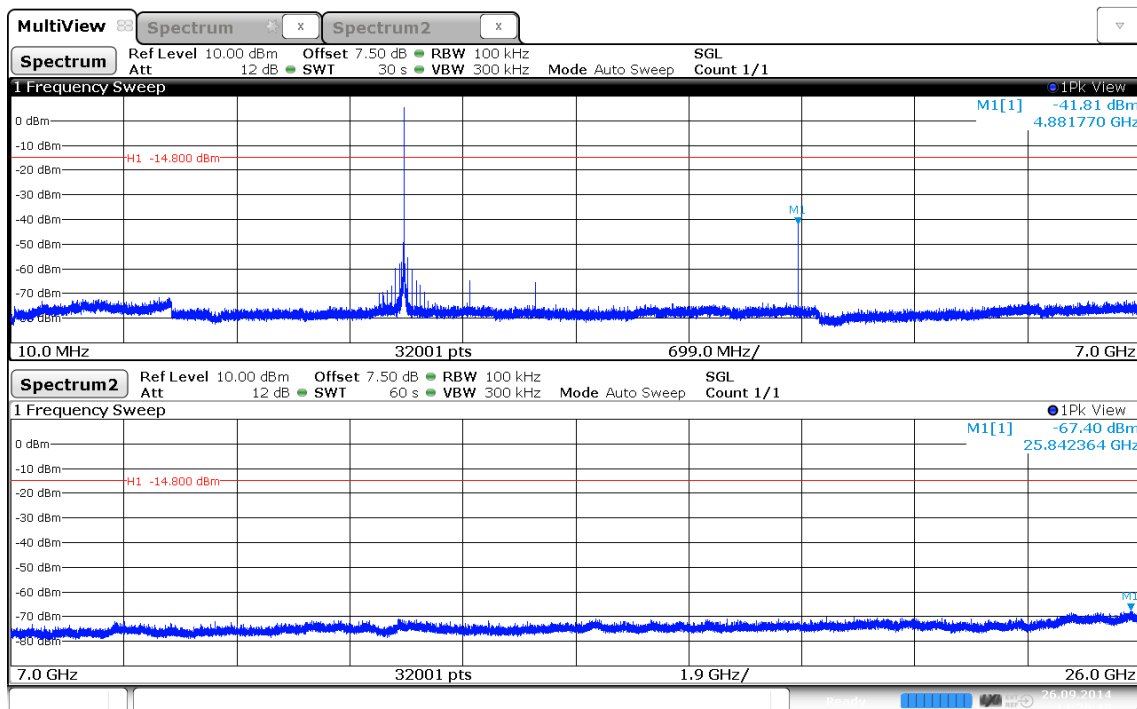
Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2402 MHz, DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Spurious in non-restricted frequency bands (DA 00-705 Meas Guidance)  
 Note 2: conducted measurement



**Conducted spurious emissions – DH5-Sngl F<sub>MID</sub>**
**Spurious Emissions acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2441 MHz, DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Spurious in non-restricted frequency bands (DA 00-705 Meas Guidance)  
 Note 2: conducted measurement

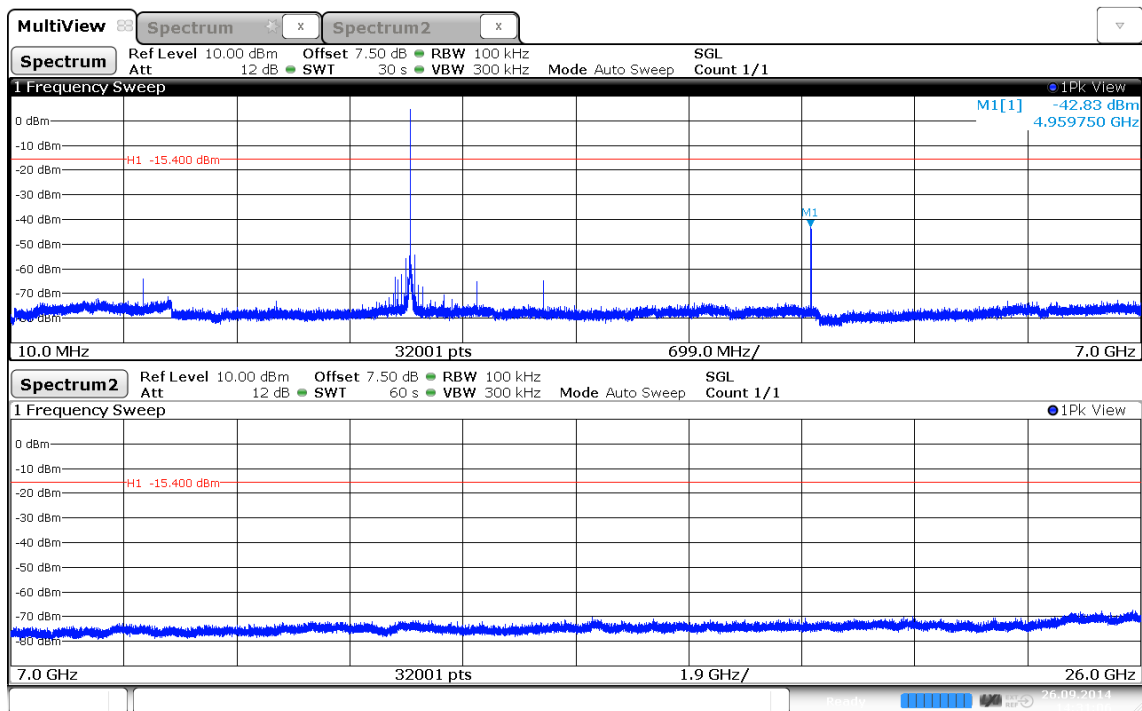


Date: 26 SEP 2014 14:26:40

**Conducted spurious emissions – DH5-Sngl F<sub>HIGH</sub>**
**Spurious Emissions acc. to FCC 15.247**

Project Number: G0M-1407-3973

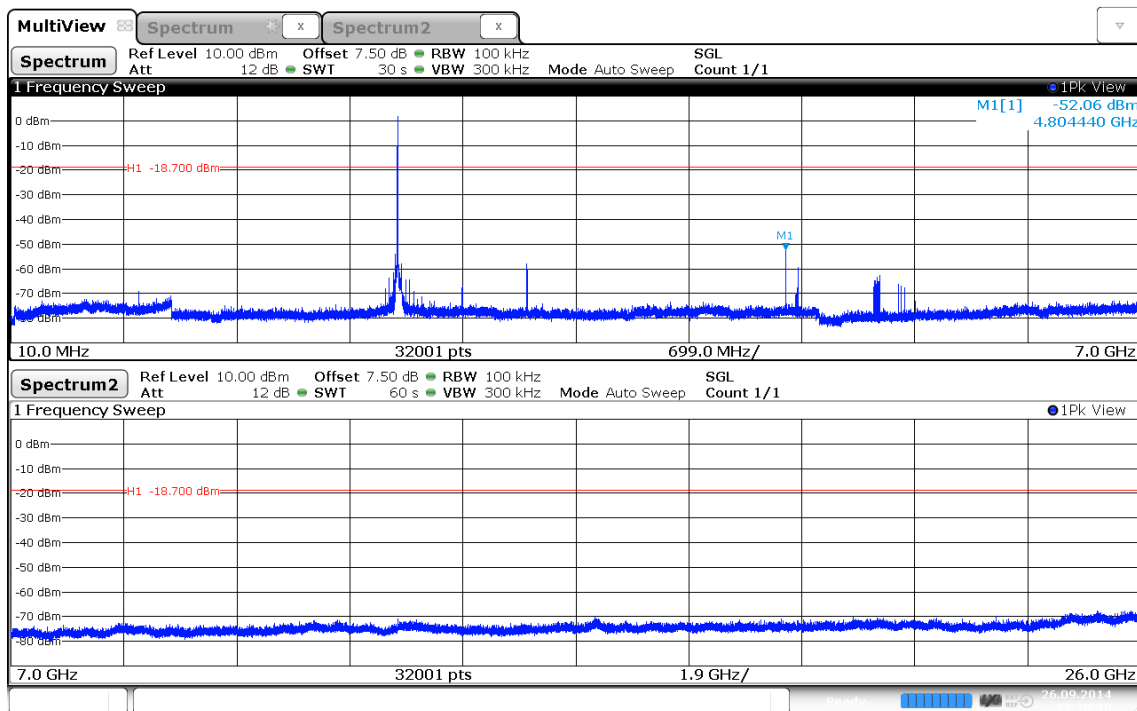
Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2480 MHz, DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Spurious in non-restricted frequency bands (DA 00-705 Meas Guidance)  
 Note 2: conducted measurement



**Conducted spurious emissions – 3-DH5-Sngl F<sub>Low</sub>**
**Spurious Emissions acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2402 MHz, 3-DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Spurious in non-restricted frequency bands (DA 00-705 Meas Guidance)  
 Note 2: conducted measurement

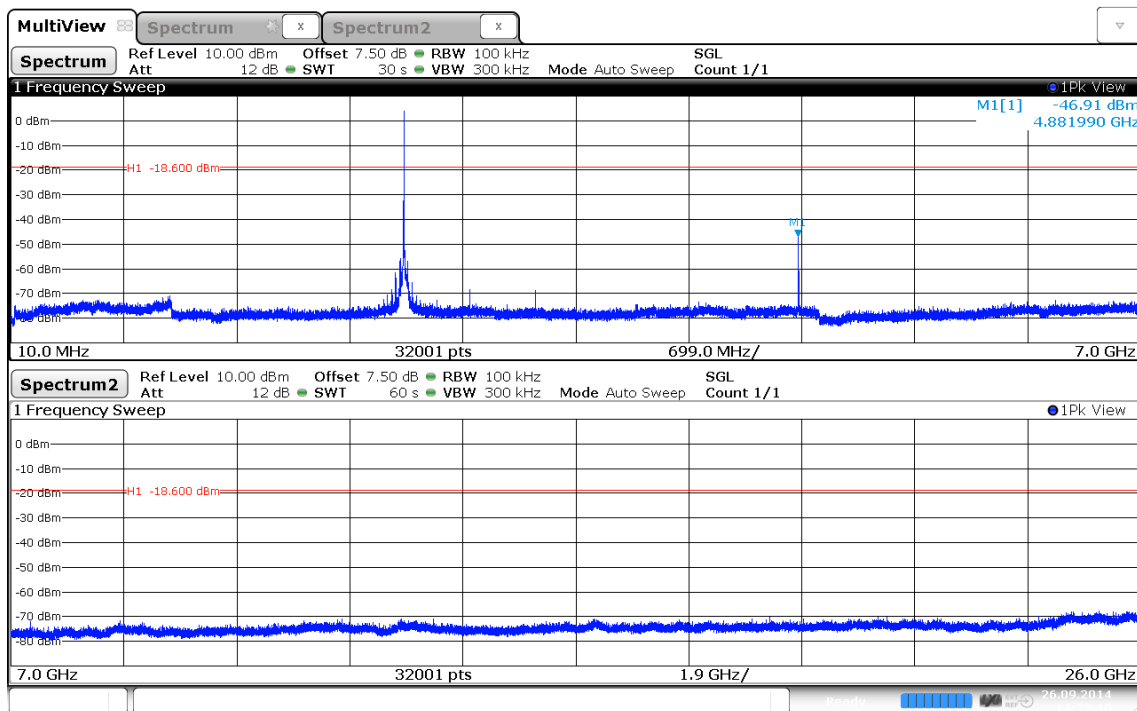


Date: 26.SEP.2014 14:18:47

**Conducted spurious emissions – 3-DH5-Sngl F<sub>MID</sub>**
**Spurious Emissions acc. to FCC 15.247**

Project Number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2441 MHz, 3-DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Spurious in non-restricted frequency bands (DA 00-705 Meas Guidance)  
 Note 2: conducted measurement

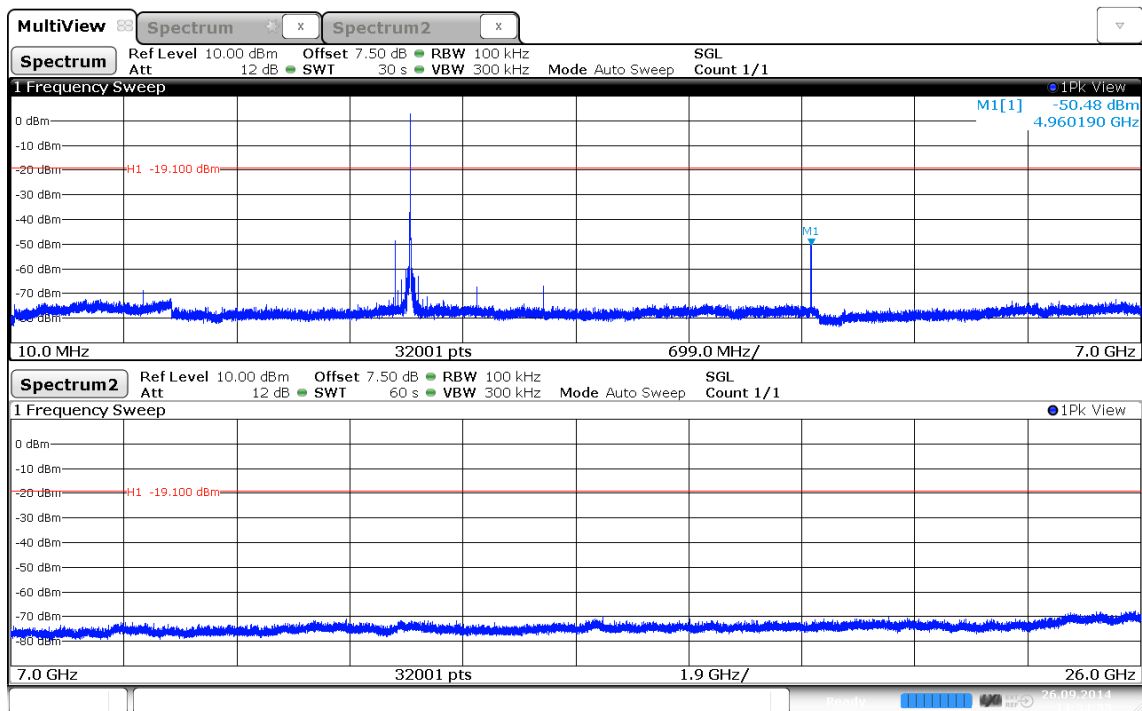


Date: 26.SEP.2014 14:23:10

**Conducted spurious emissions – 3-DH5-Sngl F<sub>HIGH</sub>**
**Spurious Emissions acc. to FCC 15.247**

Project Number: G0M-1407-3973

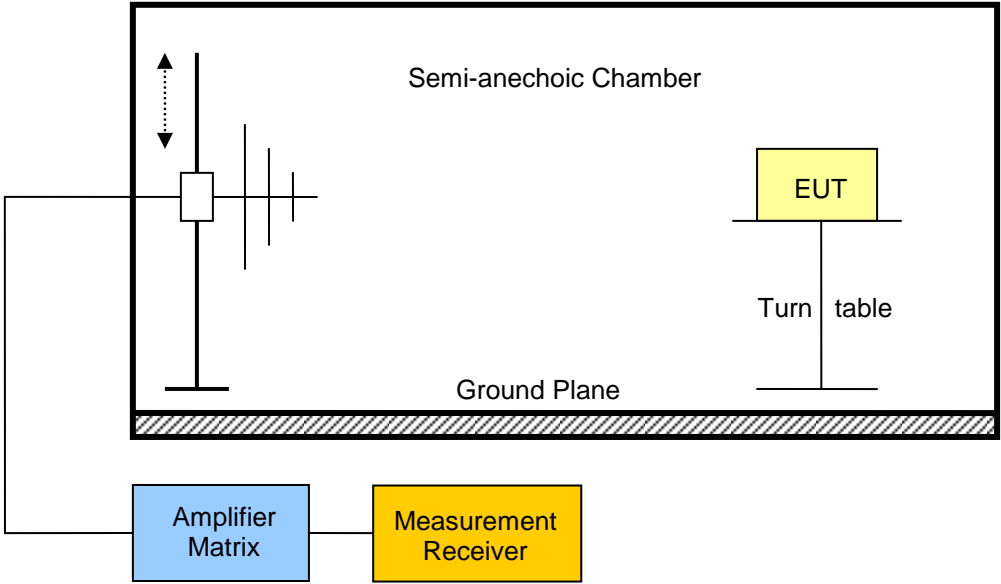
Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Toralf Jahn  
 Test Conditions: Tnom / Vnom  
 Mode: Tx, BT, 2480 MHz, 3-DH5 modulated  
 Test Date: 2014-09-26  
 Verdict: PASS  
 Note 1: Spurious in non-restricted frequency bands (DA 00-705 Meas Guidance)  
 Note 2: conducted measurement



Date: 26 SEP 2014 14:34:34



**3.10 Test Conditions and Results – Transmitter radiated emissions**

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

**Test procedure**

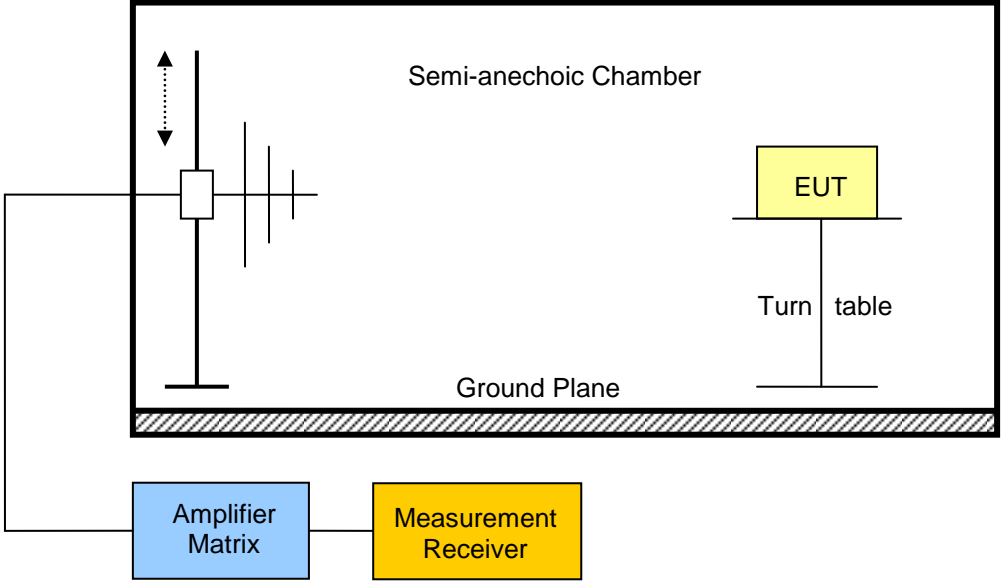
1. EUT set to test mode (Communication tester is used if needed)
2. Span it set according to measurement range
3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz
4. Markers are set to peak emission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

**Test results – Internal Antenna**

Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dB $\mu$ V/m]	Det.	Pol.	Limit [dB $\mu$ V/m]	Limit dist. [m]*	Margin [dB]
F <sub>HIGH</sub>	2480	3-DH5-Sngl	2483.5	64.09	pk	hor	74.00	3	-09.91
F <sub>HIGH</sub>	2480	3-DH5-Sngl	2483.5	51.20	RMS	hor	54.00	3	-02.80
F <sub>HIGH</sub>	2480	3-DH5-Sngl	2500	46.95	pk	hor	74.00	3	-27.05
F <sub>HIGH</sub>	2480	3-DH5-Sngl	2503	49.90	pk	hor	95.00	3	-45.10
F <sub>HIGH</sub>	2480	3-DH5-Sngl	4960	57.06	pk	hor	74.00	3	-16.94
F <sub>HIGH</sub>	2480	3-DH5-Sngl	4960	47.82	avg	hor	54.00	3	-06.18
F <sub>MID</sub>	2441	3-DH5-Sngl	4882	54.75	pk	ver	74.00	3	-19.25
F <sub>MID</sub>	2441	3-DH5-Sngl	4882	46.55	avg	ver	54.00	3	-07.45
F <sub>HIGH</sub>	2480	DH5-Sngl	2483.5	55.41	pk	hor	74.00	3	-18.59
F <sub>HIGH</sub>	2480	DH5-Sngl	2483.5	48.76	RMS	hor	54.00	3	-05.24
F <sub>HIGH</sub>	2480	DH5-Sngl	2500	36.94	pk	hor	74.00	3	-37.06
F <sub>HIGH</sub>	2480	DH5-Sngl	2503	51.08	pk	hor	95.00	3	-43.92
F <sub>HIGH</sub>	2480	DH5-Sngl	4960	57.48	pk	hor	74.00	3	-16.52
F <sub>HIGH</sub>	2480	DH5-Sngl	4960	52.43	avg	hor	54.00	3	-01.57
F <sub>LOW</sub>	2402	DH5-Sngl	17988	49.01	pk	hor	74.00	3	-24.99
F <sub>LOW</sub>	2402	DH5-Sngl	22981	43.79	pk	hor	74.00	3	-30.21
F <sub>MID</sub>	2441	DH5-Sngl	4882	55.07	pk	hor	74.00	3	-18.93
F <sub>MID</sub>	2441	DH5-Sngl	4882	49.87	avg	hor	54.00	3	-04.13

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

3.11 Test Conditions and Results – Receiver radiated emissions

Receiver radiated emissions acc. to IC RSS-210			Verdict: PASS	
Test according referenced standards	Reference Method			
	IC RSS-210 A8.5			
Test according to measurement reference	Reference Method			
	ANSI C63.4			
Test frequency range	Tested frequencies			
	30 MHz – 3 <sup>th</sup> Harmonic			
EUT test mode	Receive			
Limits				
Frequency range [MHz]	Detector	Limit [ $\mu$ V/m]	Limit [dB $\mu$ V/m]	Limit Distance [m]
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
Test setup				
 <p>The diagram illustrates the test setup within a Semi-anechoic Chamber. A Ground Plane is located at the bottom. An EUT (Equipment Under Test) is placed on a Turn table. An Amplifier Matrix is connected to a Measurement Receiver. The chamber is labeled 'Semi-anechoic Chamber' and 'Ground Plane'.</p>				

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	Emission [MHz]	Emission Level [db $\mu$ V/m]	Polarization	Det.	Limit [ $\mu$ V/m]	Margin [db]	Result
RX; Scan Mode	224	19.51	hor	pk	46	-26.49	Pass
Comments: * Physical distance between EUT and measurement antenna. ** Emission level corresponds to ambient noise floor							

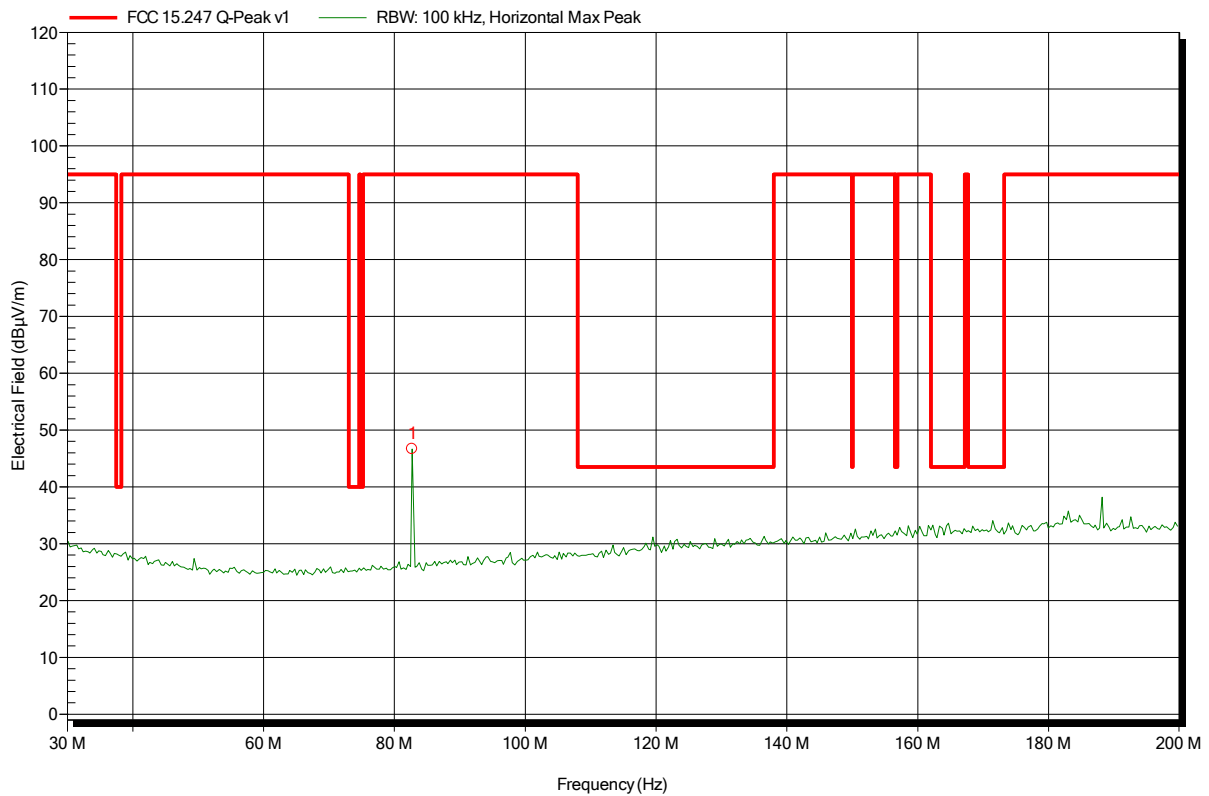
## ANNEX A Transmitter radiated spurious emissions

### Spurious emissions according to FCC 15.247

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Rohde & Schwarz HK 116, Horizontal  
 Measurement distance: 3 m  
 Mode: Basic Rate; Worst Case  
 Test Date: 2014-09-24  
 Note: worst case

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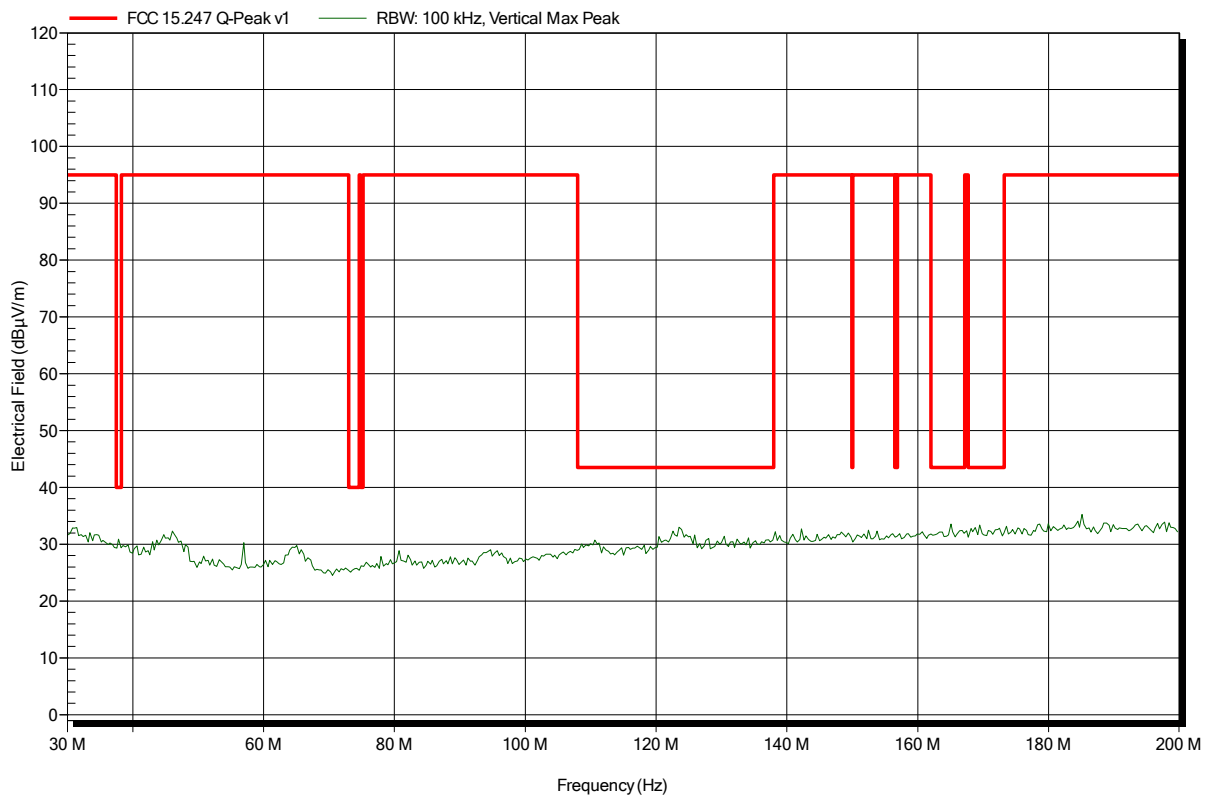
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
82.7 MHz	46.69 dBµV/m	95 dBµV/m	-48.31 dB	Pass

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	Basic Rate; Worst Case
Test Date:	2014-09-24
Note:	worst case

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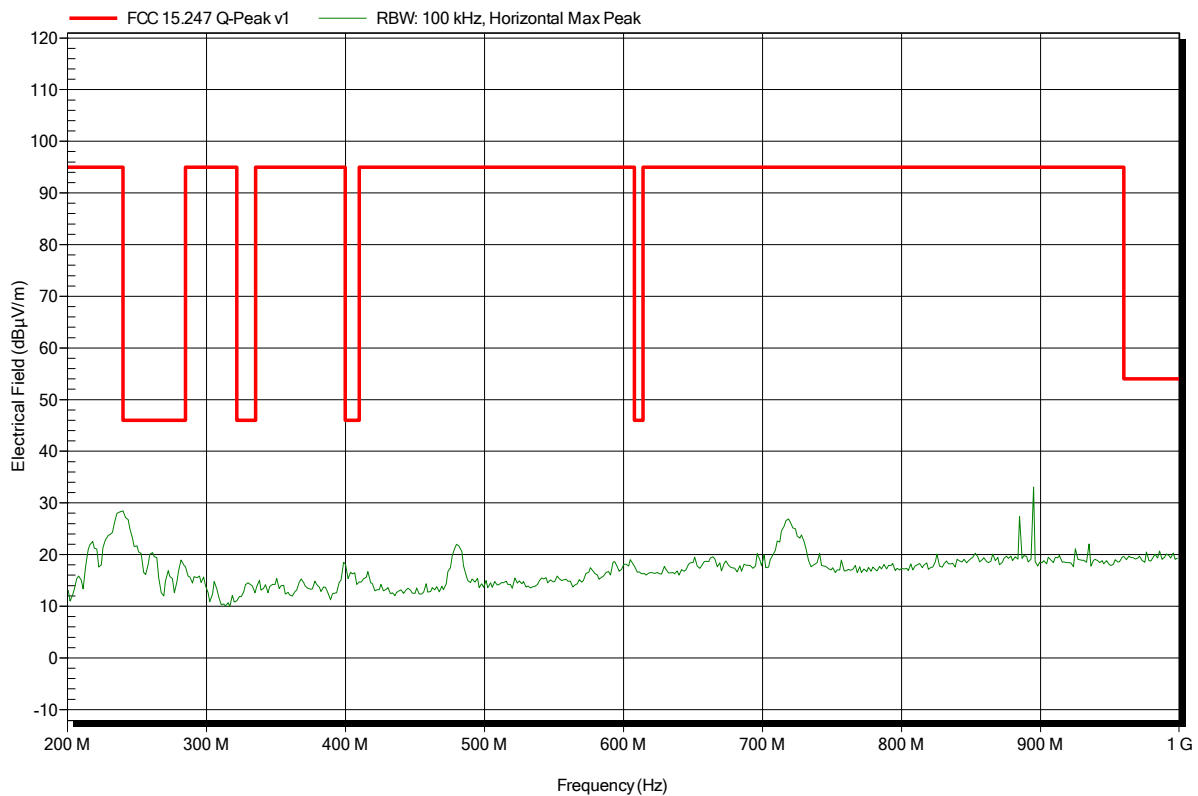


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	Basic Rate; Worst Case
Test Date:	2014-09-24
Note:	worst case

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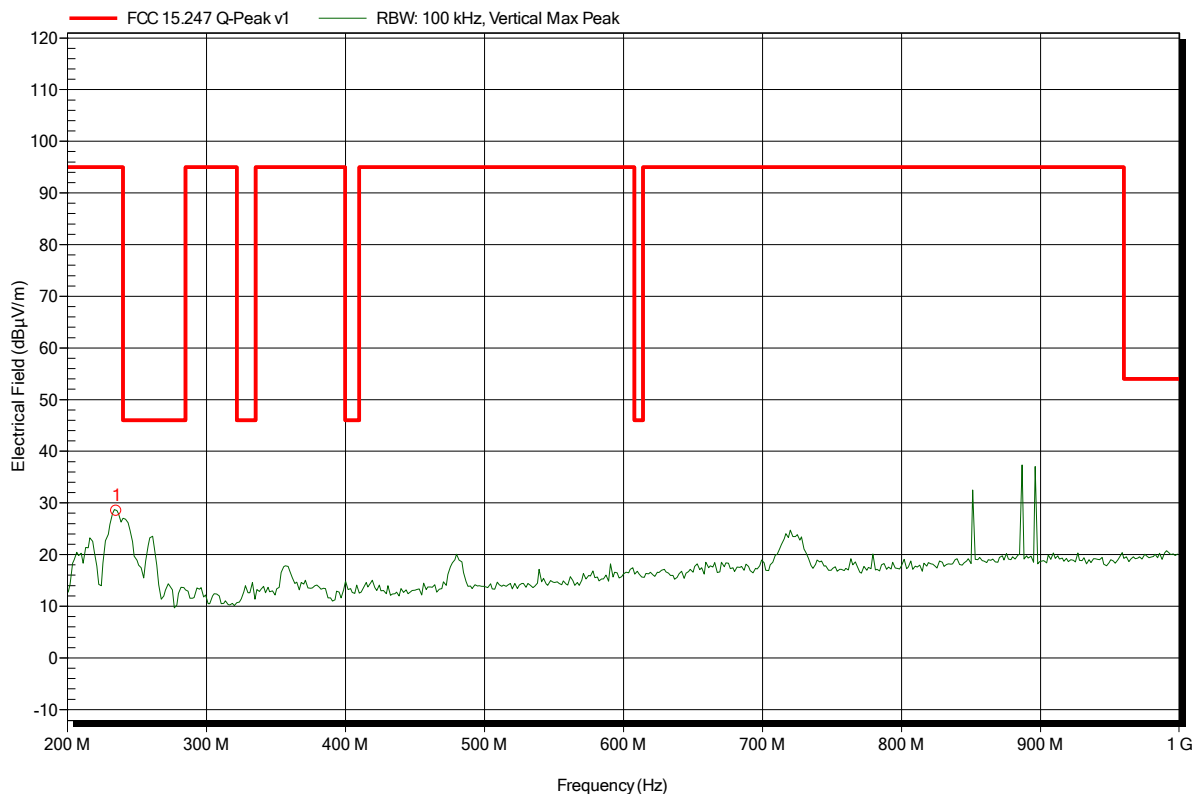


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Rohde & Schwarz HL 223, Vertical  
 Measurement distance: 3 m  
 Mode: Basic Rate; Worst Case  
 Test Date: 2014-09-24  
 Note: worst case

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
235.2 MHz	28.48 dBµV/m	95 dBµV/m	-66.52 dB	Pass

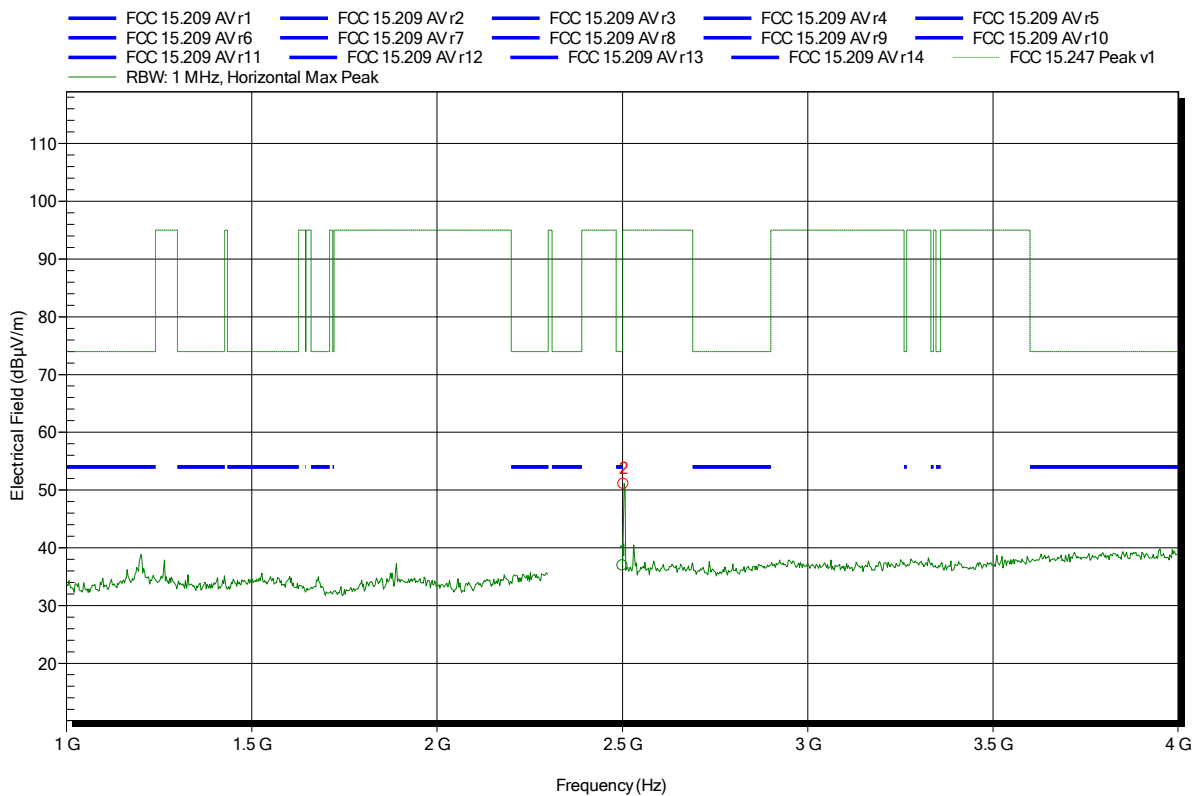


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: BASIC RATE; Fhigh  
 Test Date: 2014-09-22  
 Note:

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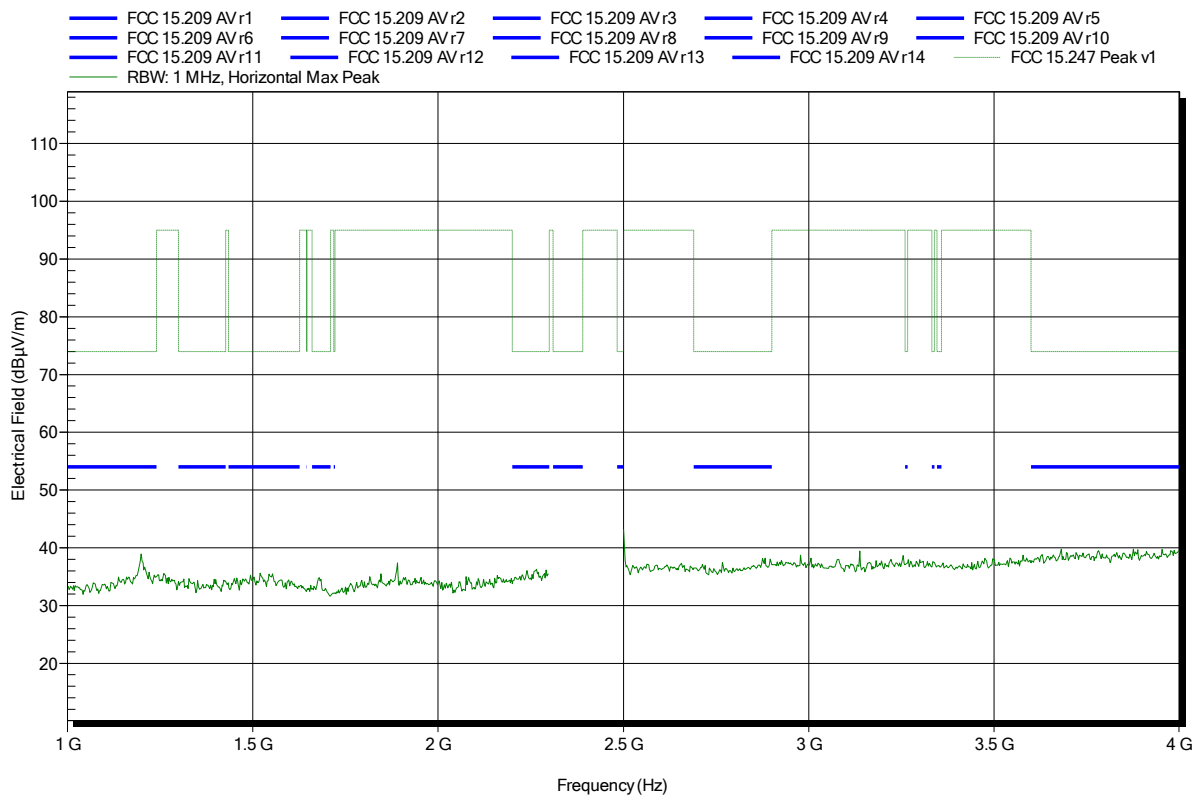
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.5 GHz	36.94 dBµV/m	74 dBµV/m	-37.06 dB	Pass
2.503 GHz	51.08 dBµV/m	95 dBµV/m	-43.92 dB	Pass

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: BASIC RATE; Flow  
 Test Date: 2014-09-22  
 Note:

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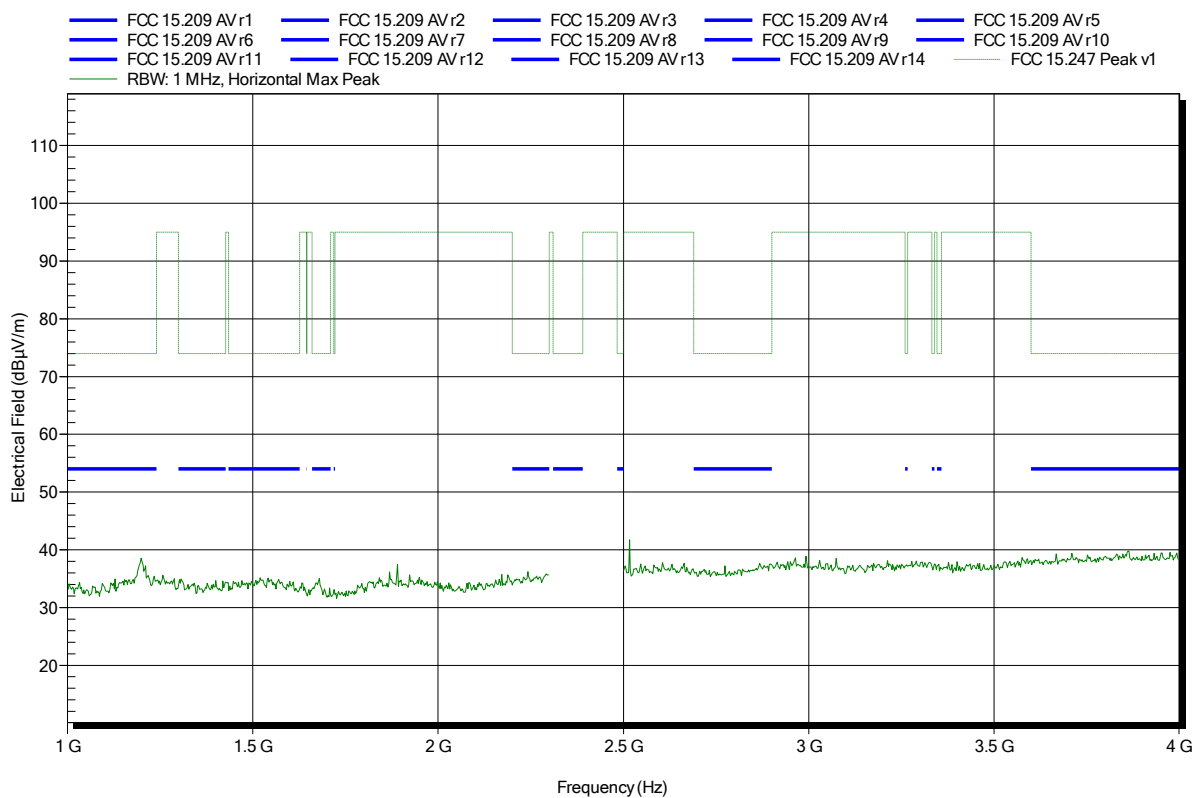


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: BASIC RATE; Fmid  
 Test Date: 2014-09-22  
 Note:

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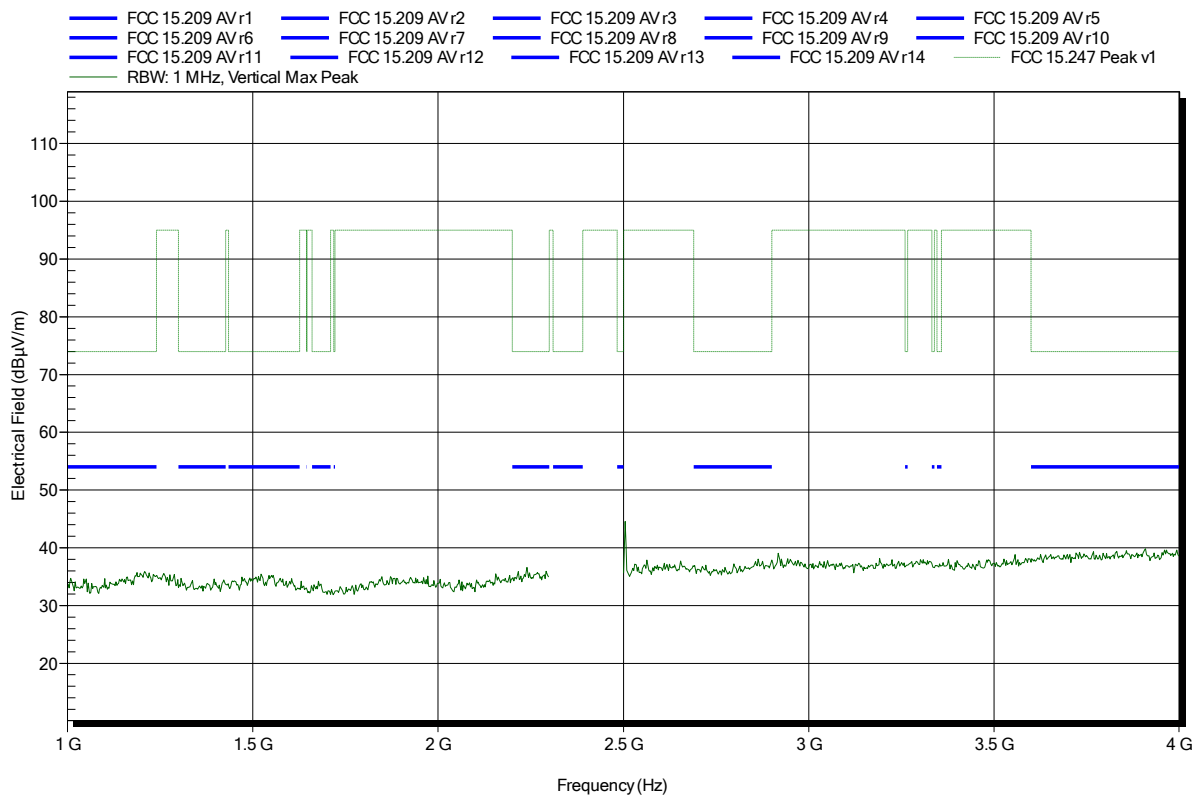


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: BASIC RATE; Fhigh  
 Test Date: 2014-09-22  
 Note:

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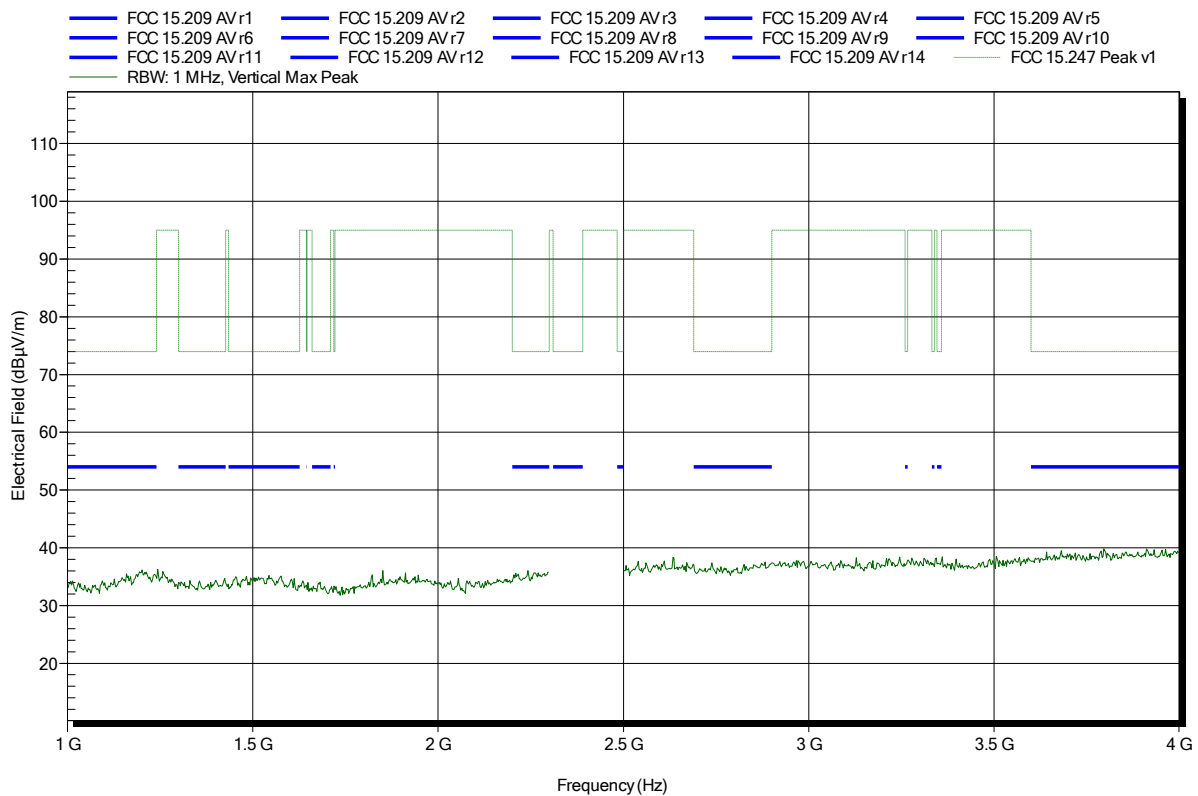


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: BASIC RATE; Flow  
 Test Date: 2014-09-22  
 Note:

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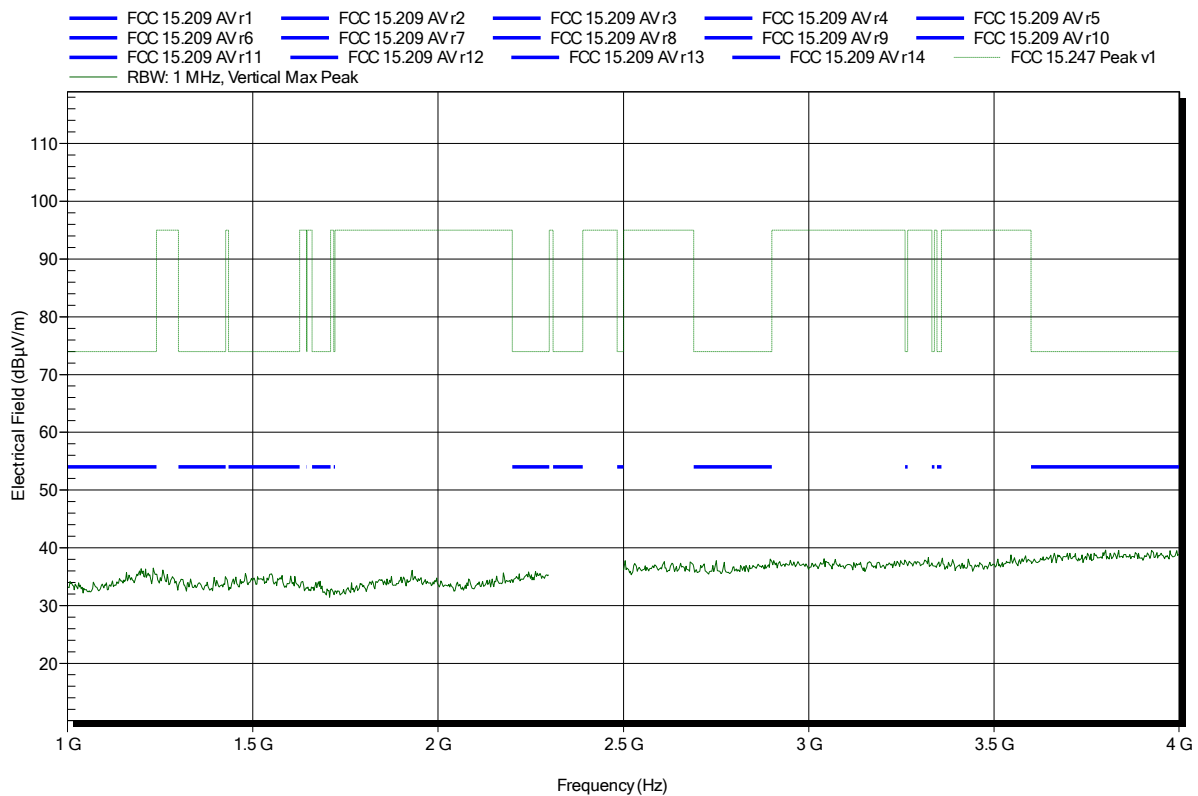


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: BASIC RATE; Fmid  
 Test Date: 2014-09-22  
 Note:

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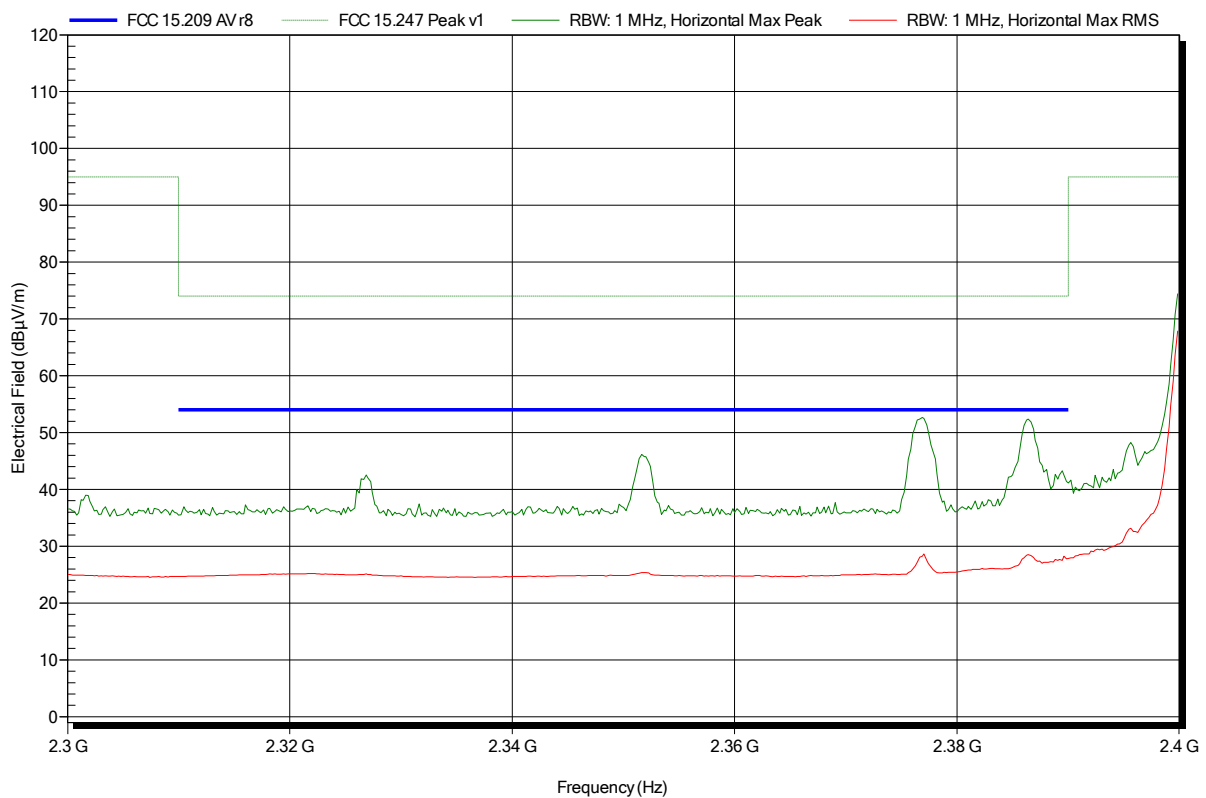


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	BASIC RATE; Flow
Test Date:	2014-09-22
Note:	lower bandedge

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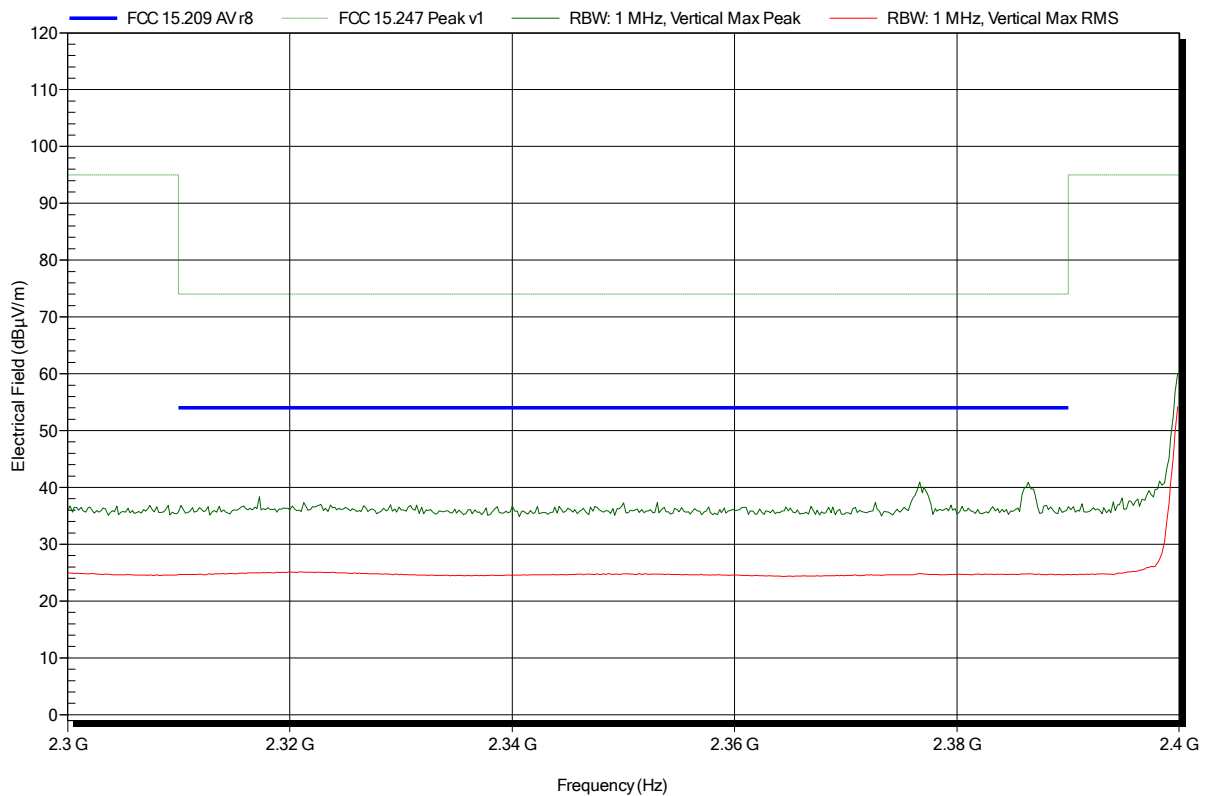


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	BASIC RATE; Flow
Test Date:	2014-09-22
Note:	lower bandedge

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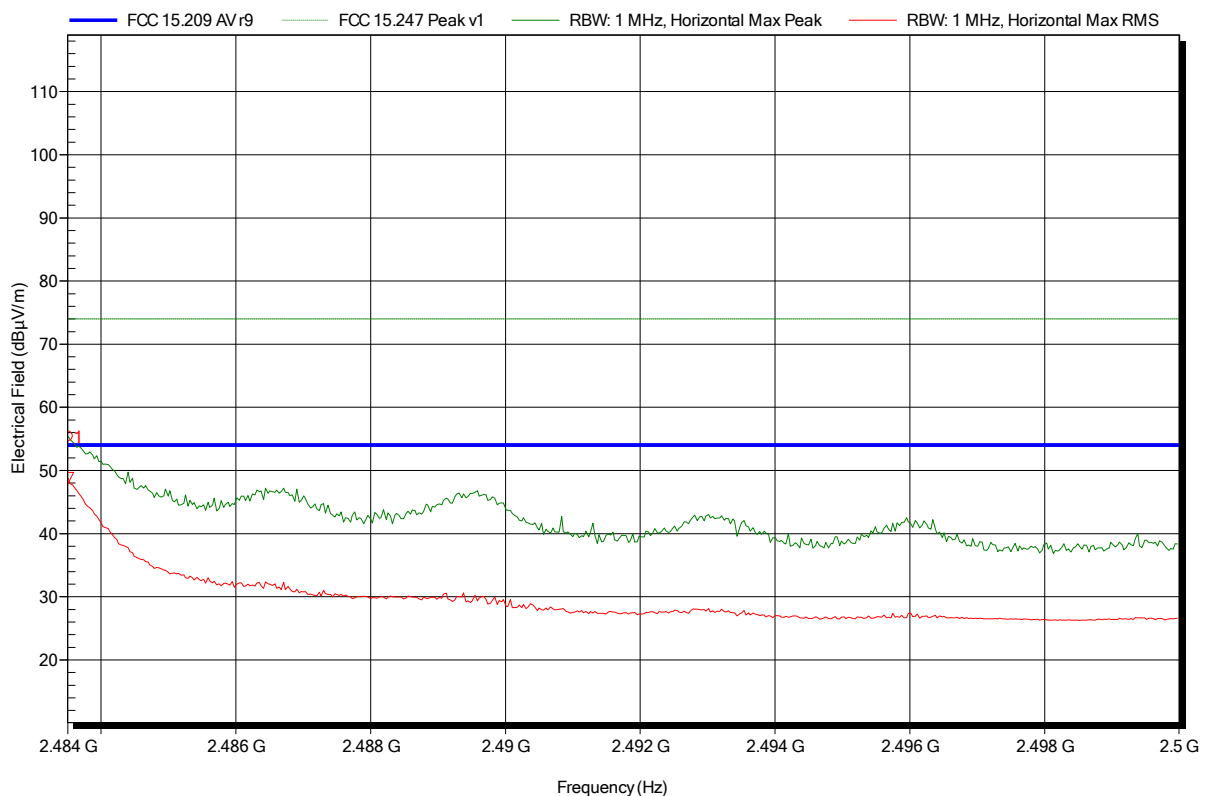


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: BASIC RATE; Fhigh  
 Test Date: 2014-09-22  
 Note: upper bandedge

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4835 GHz	55.41 dBµV/m	74 dBµV/m	-18.59 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4835 GHz	48.76 dBµV/m	54 dBµV/m	-5.24 dB	Pass

Test Report No.: G0M-1407-3973-TFC247BT-V01

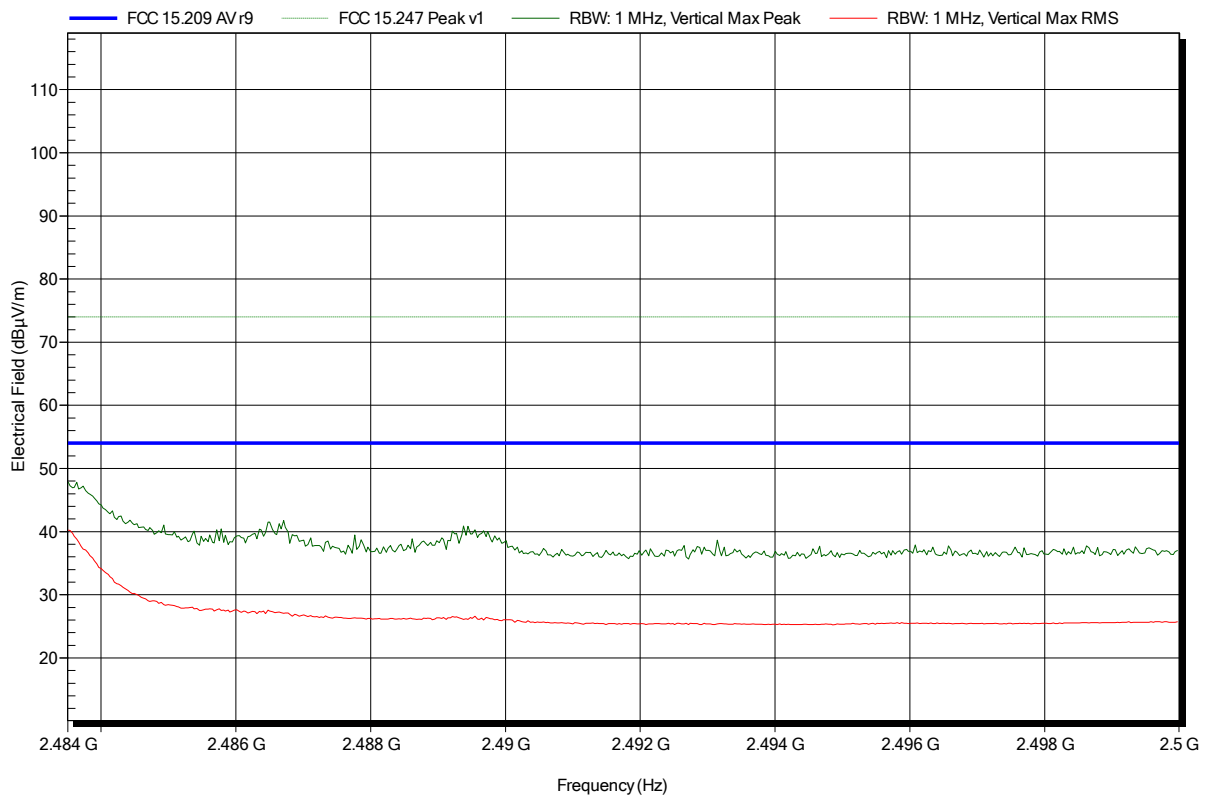
 Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	BASIC RATE; Fhigh
Test Date:	2014-09-22
Note:	upper bandedge

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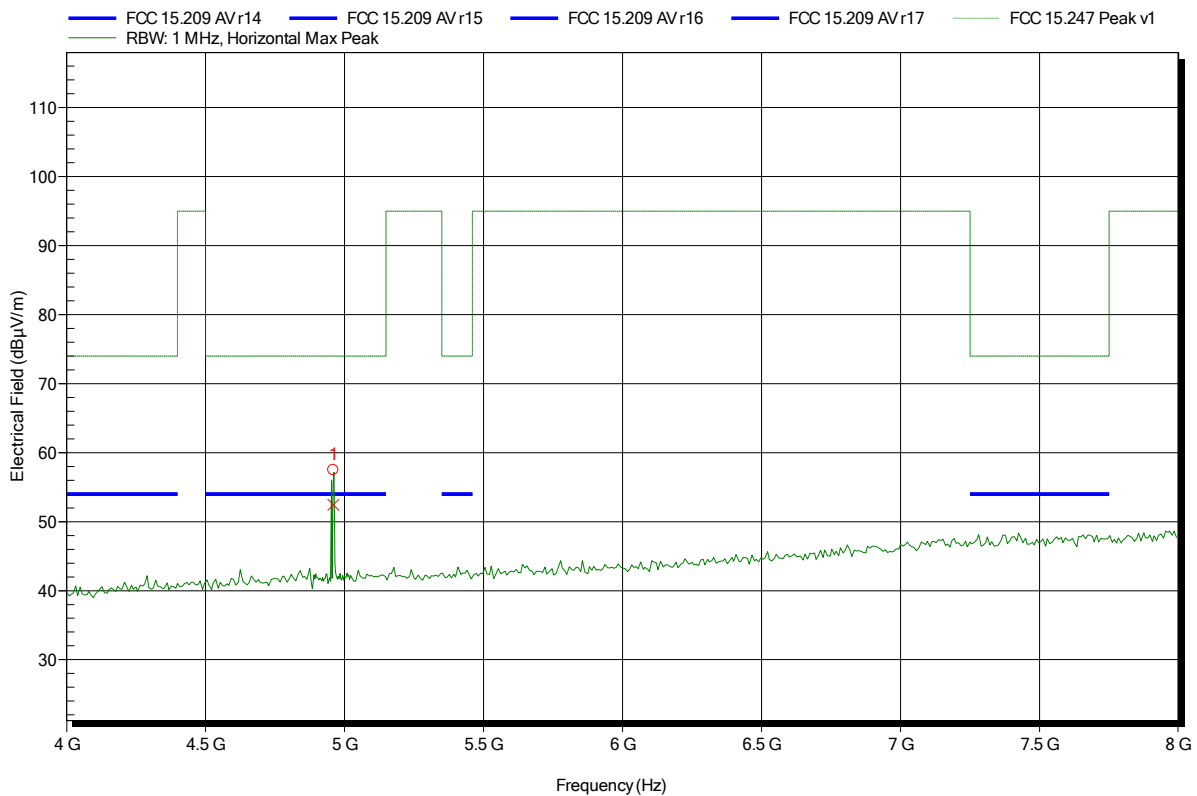


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: BASIC RATE; Fhigh  
 Test Date: 2014-09-22  
 Note:

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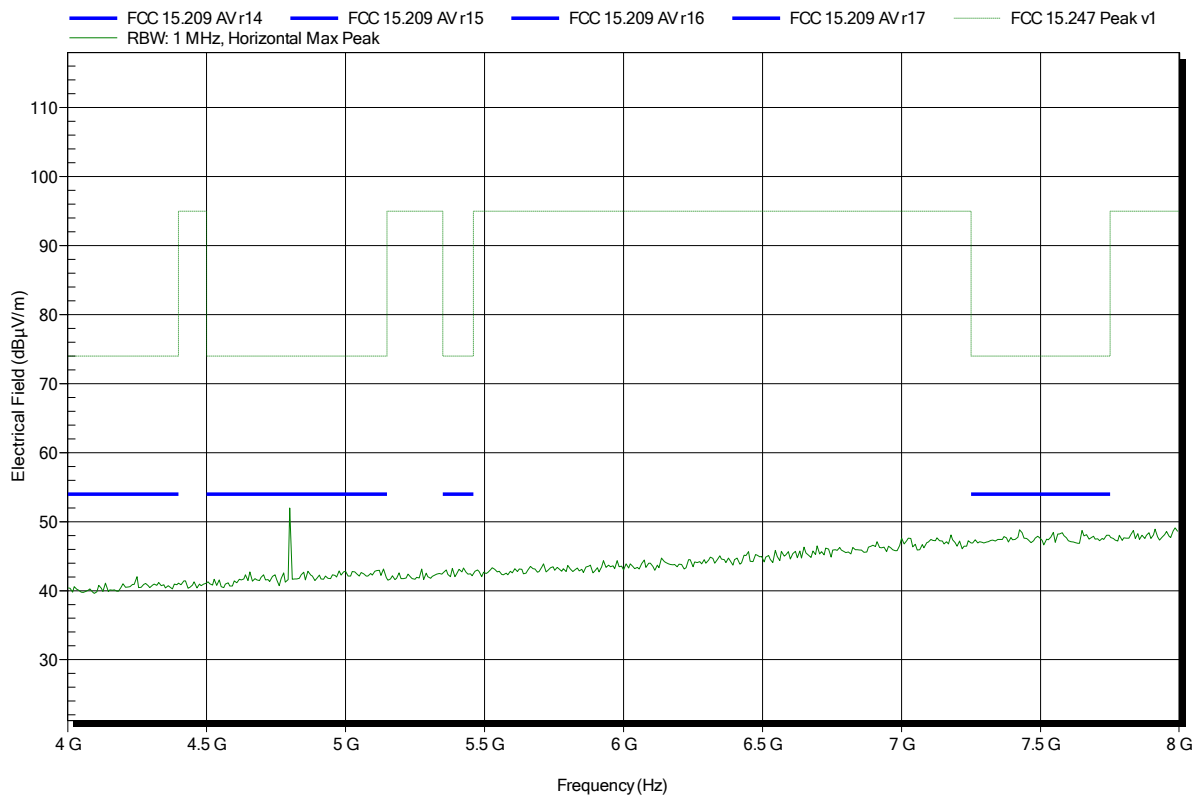
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.96 GHz	57.48 dBµV/m	74 dBµV/m	-16.52 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
4.96 GHz	52.43 dBµV/m	54 dBµV/m	-1.57 dB	Pass

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	BASIC RATE; Flow
Test Date:	2014-09-22
Note:	

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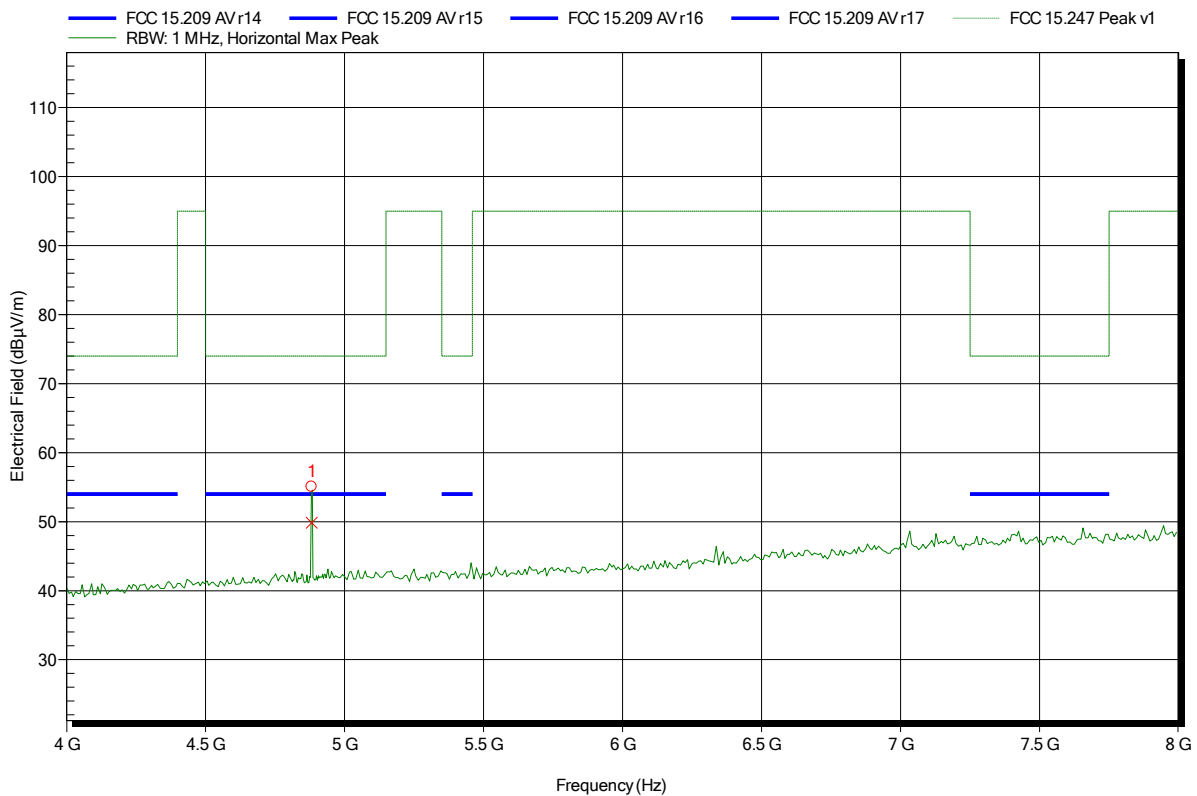


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: BASIC RATE; Fmid  
 Test Date: 2014-09-22  
 Note:

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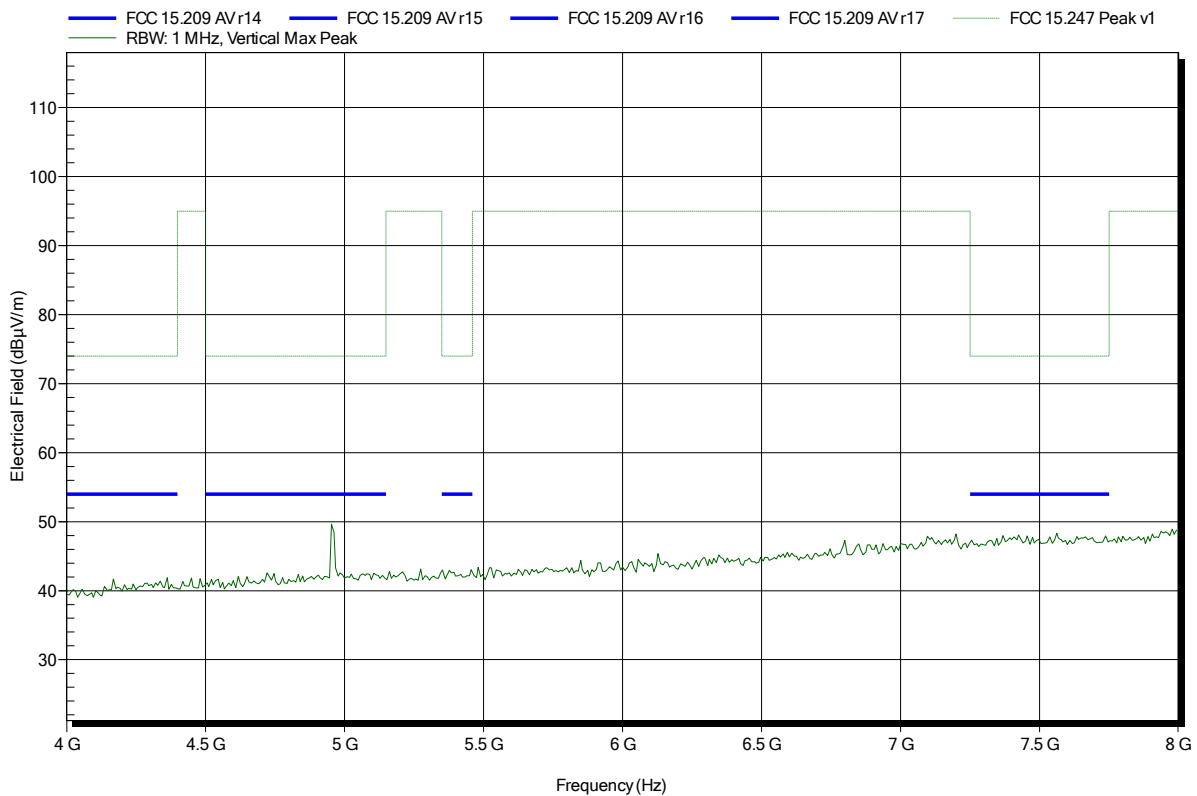
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.882 GHz	55.07 dBµV/m	74 dBµV/m	-18.93 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
4.882 GHz	49.87 dBµV/m	54 dBµV/m	-4.13 dB	Pass

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	BASIC RATE; Fhigh
Test Date:	2014-09-22
Note:	

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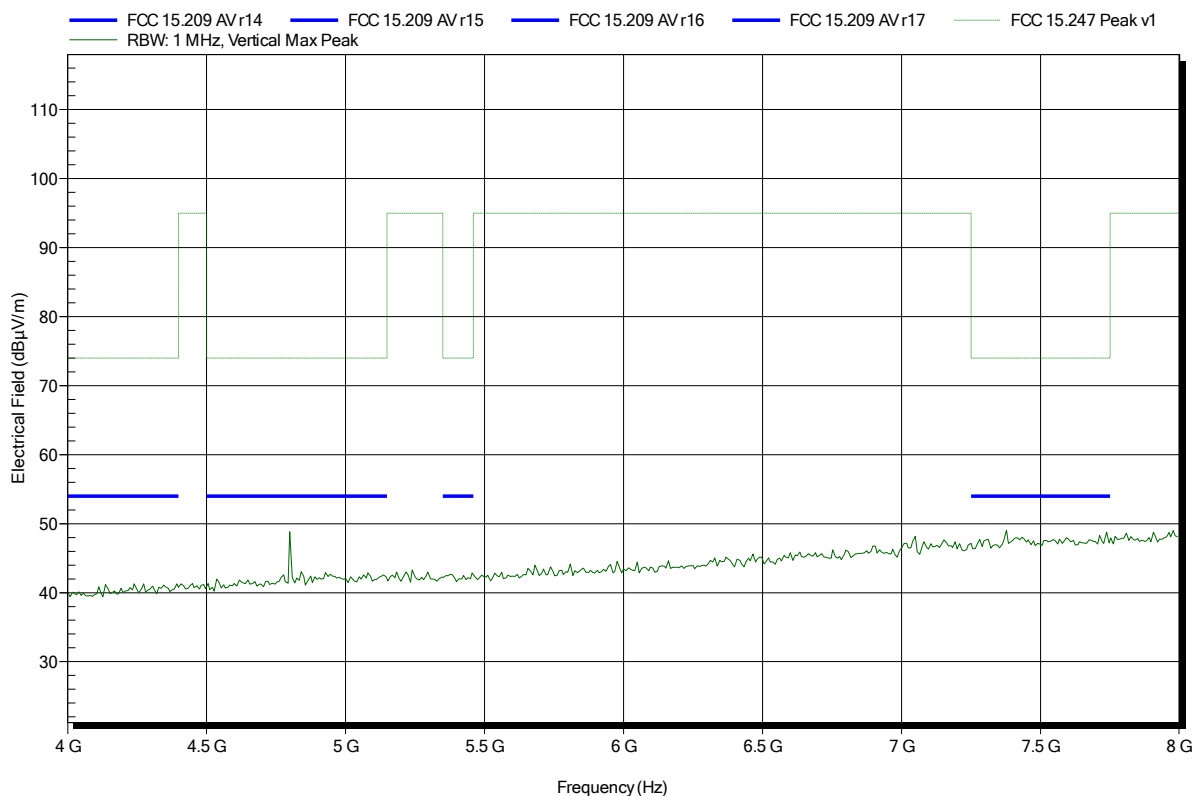


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	BASIC RATE; Flow
Test Date:	2014-09-22
Note:	

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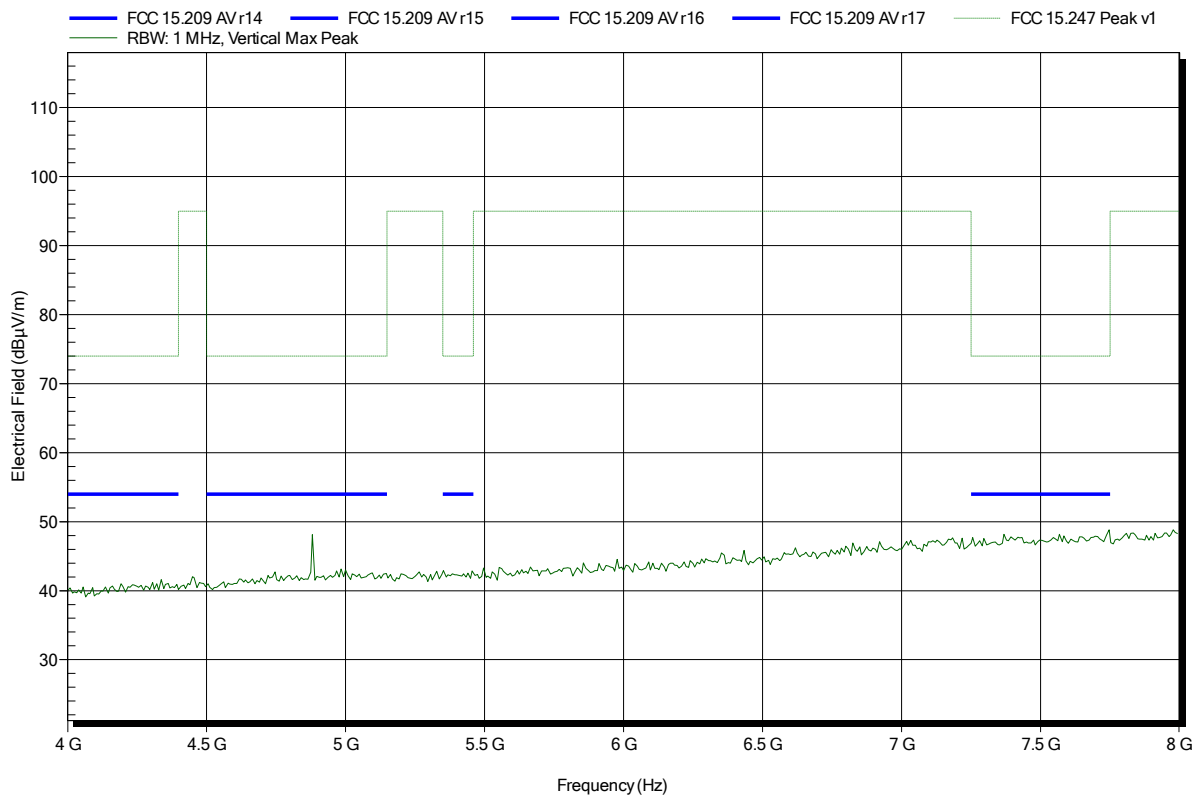


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	BASIC RATE; Fmid
Test Date:	2014-09-22
Note:	

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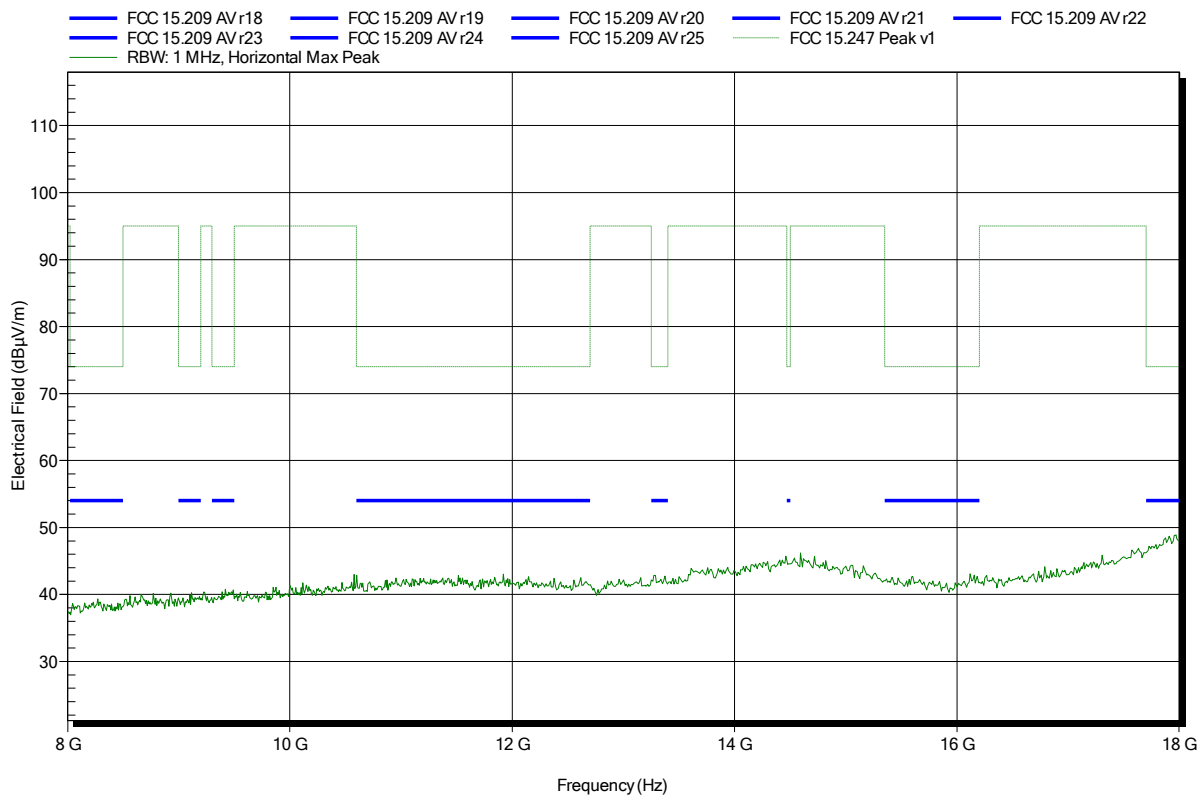


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: BASIC RATE; Fhigh  
 Test Date: 2014-09-24  
 Note:

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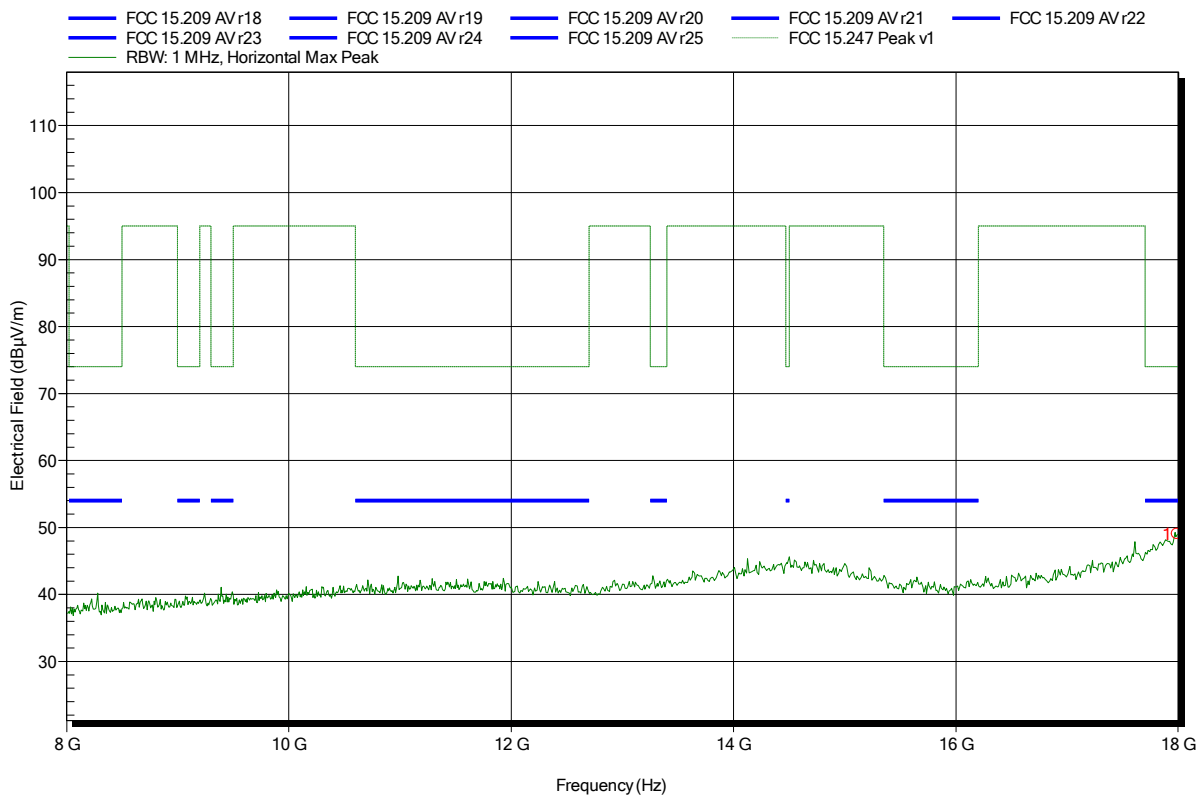


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: BASIC RATE; Flow  
 Test Date: 2014-09-24  
 Note:

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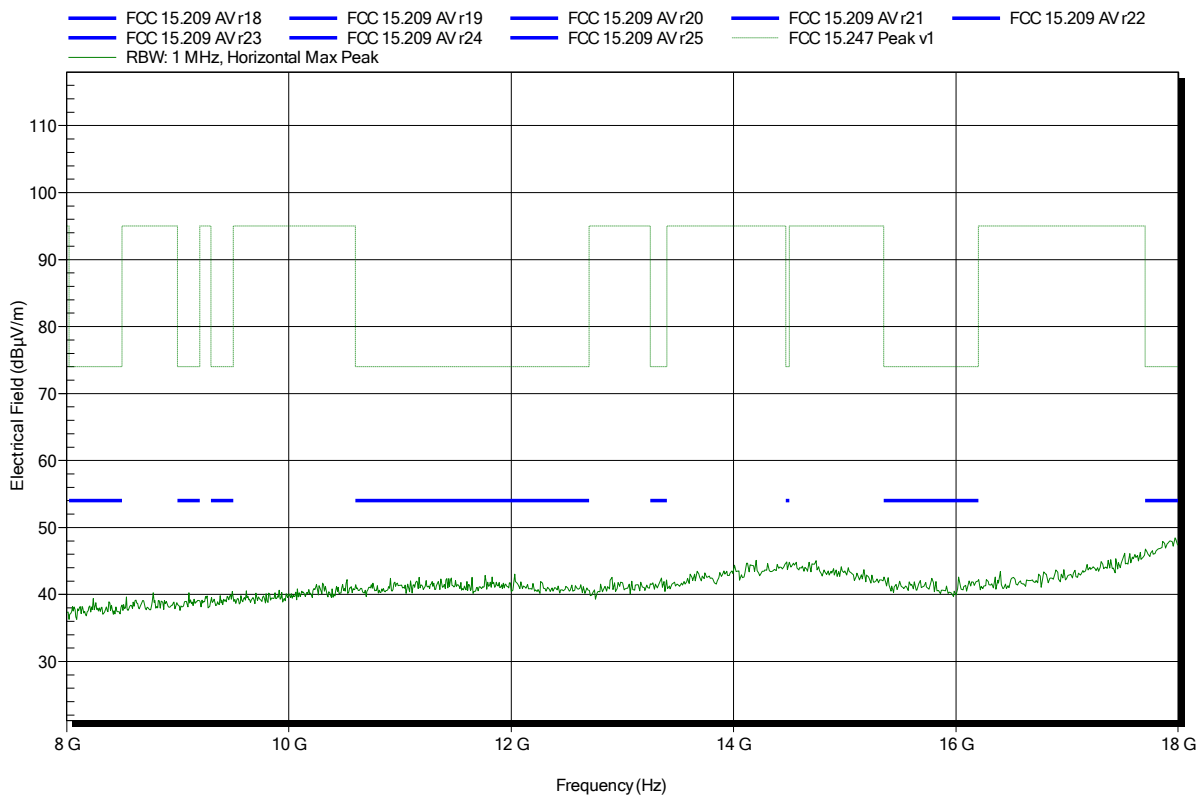
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
17.988 GHz	49.01 dBµV/m	74 dBµV/m	-24.99 dB	Pass

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 1 m converted to 3m  
 Mode: BASIC RATE; Fmid  
 Test Date: 2014-09-24  
 Note:

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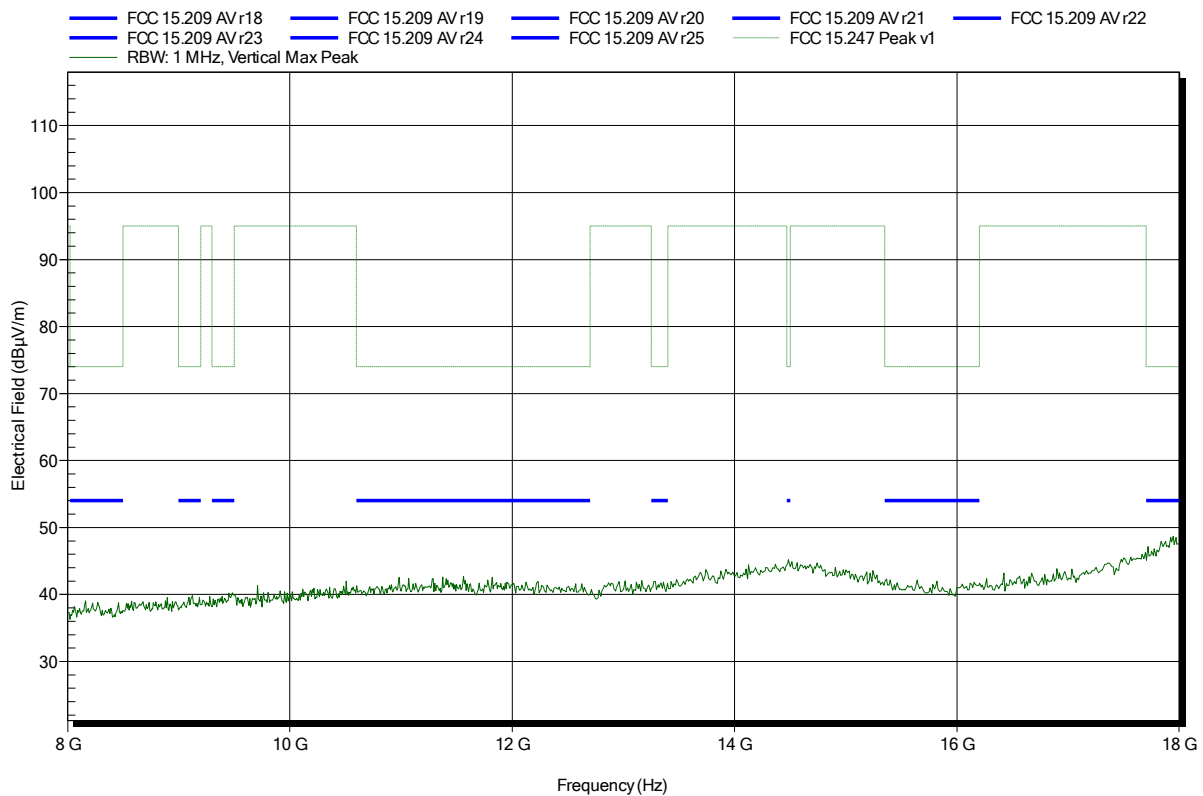


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: BASIC RATE; Fhigh  
 Test Date: 2014-09-24  
 Note:

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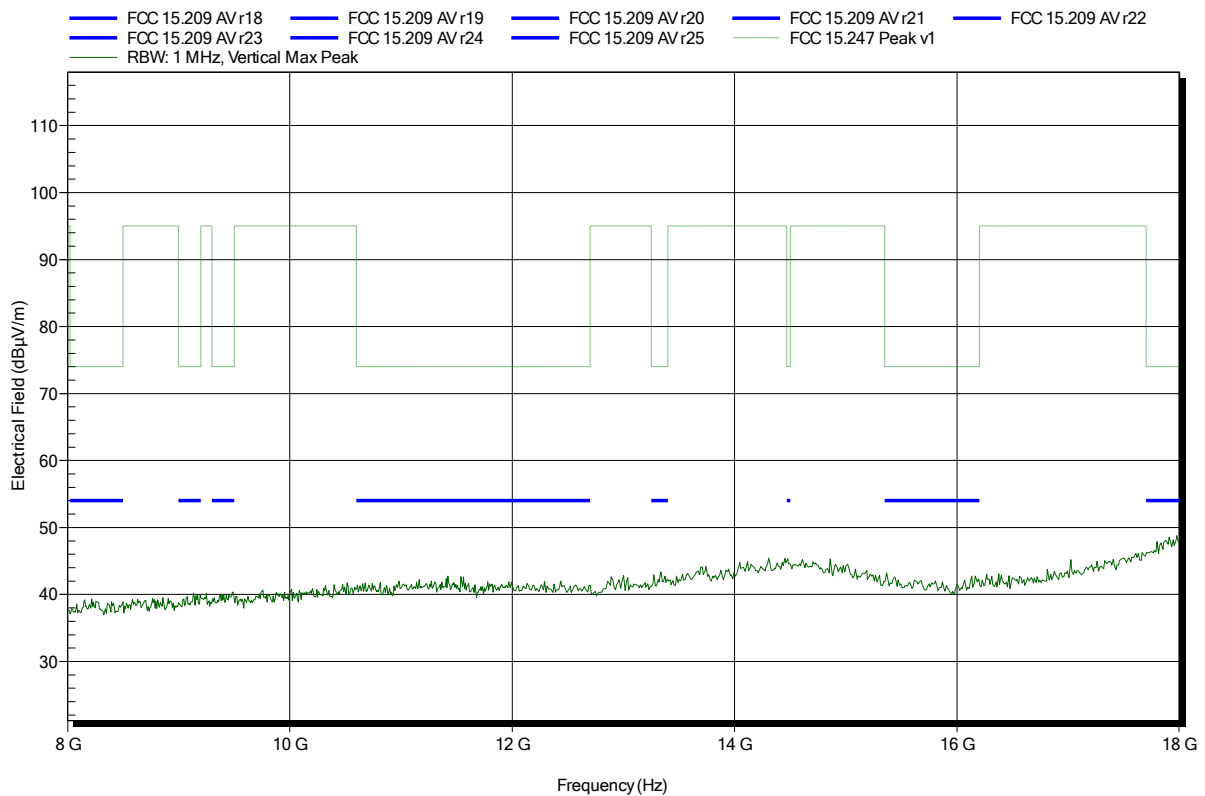


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 1 m converted to 3m  
 Mode: BASIC RATE; Flow  
 Test Date: 2014-09-24  
 Note:

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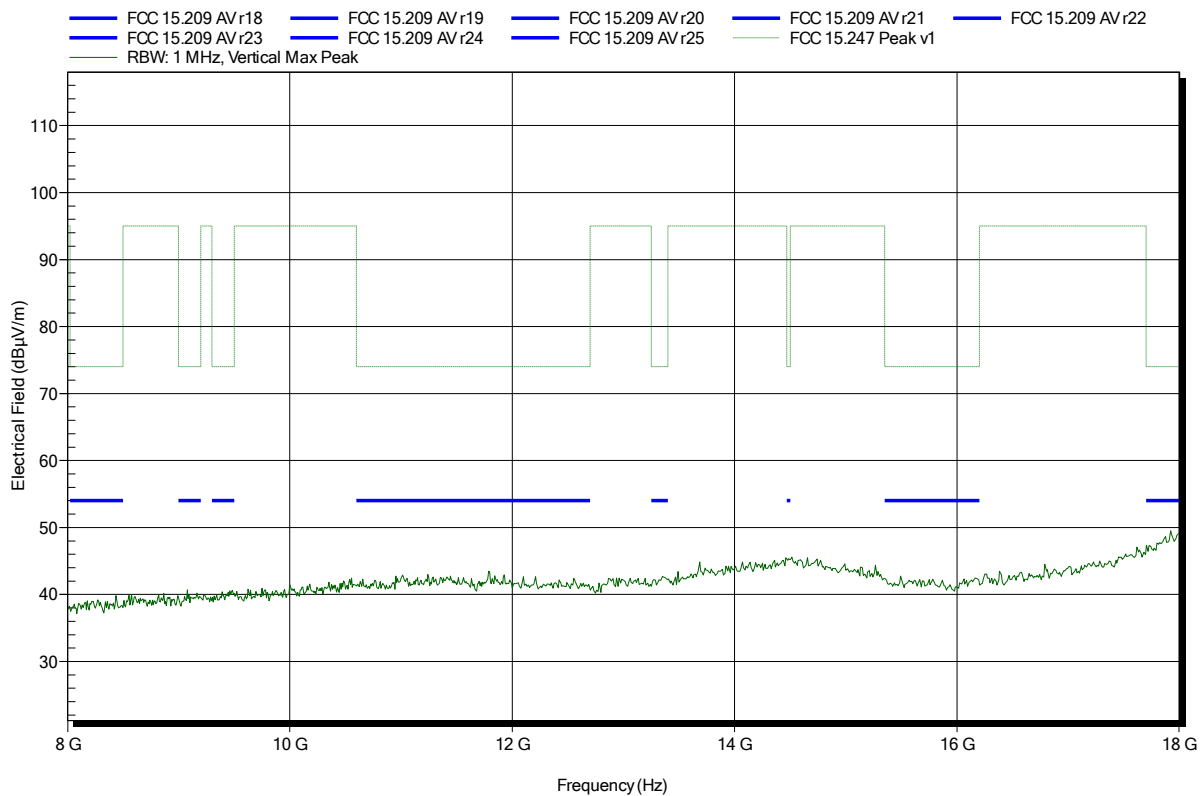


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	1 m converted to 3m
Mode:	BASIC RATE; Fmid
Test Date:	2014-09-24
Note:	

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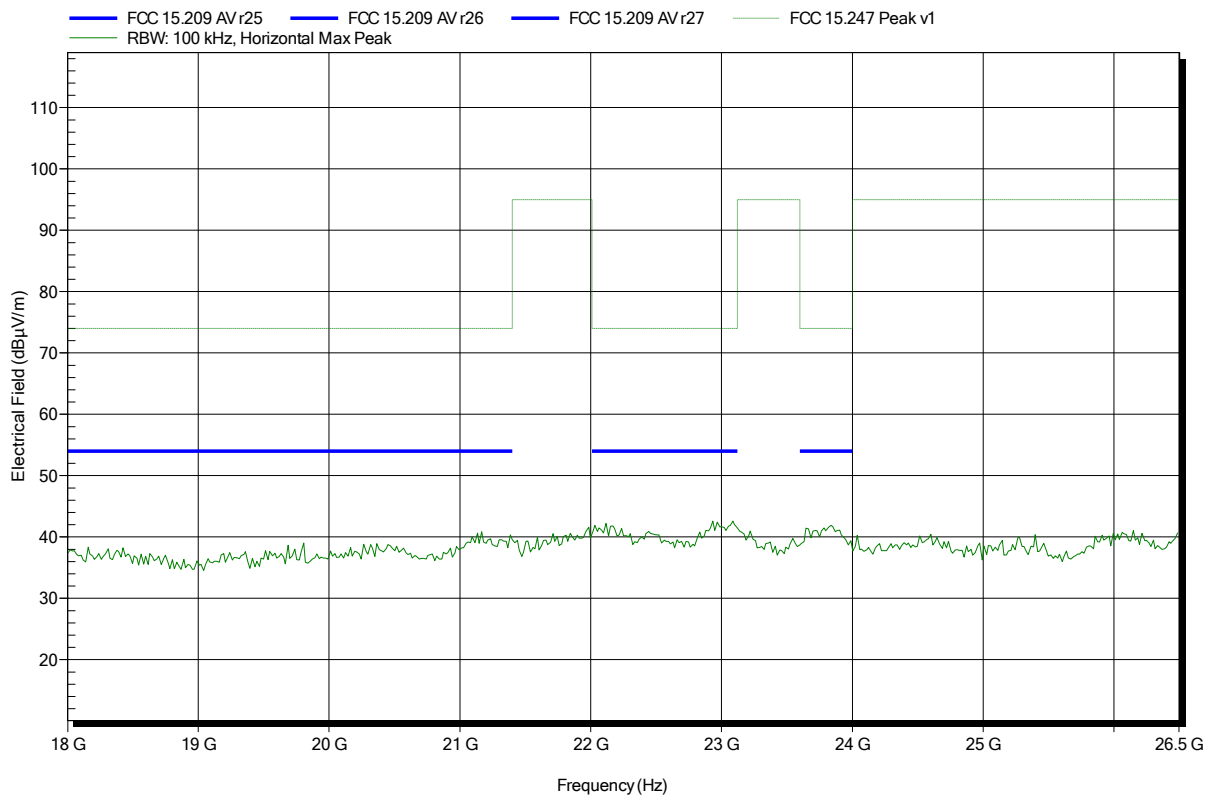


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m
Mode:	BASIC RATE; Fhigh
Test Date:	2014-09-24
Note:	

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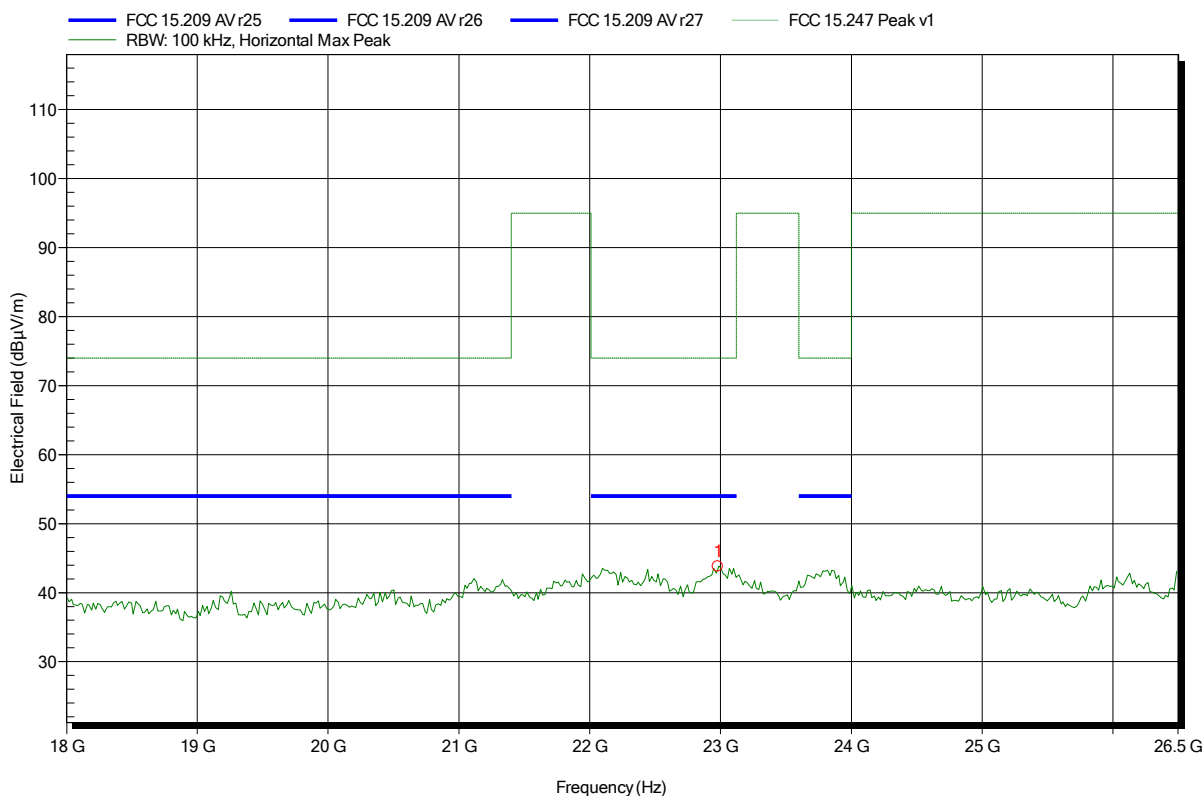


**Spurious emissions according to FCC 15.247**

Project number: GOM-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Rohde & Schwarz HL 025, Horizontal  
 Measurement distance: 1 m  
 Mode: BASIC RATE; Flow  
 Test Date: 2014-09-24  
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
22.981 GHz	43.79 dBµV/m	74 dBµV/m	-30.21 dB	Pass

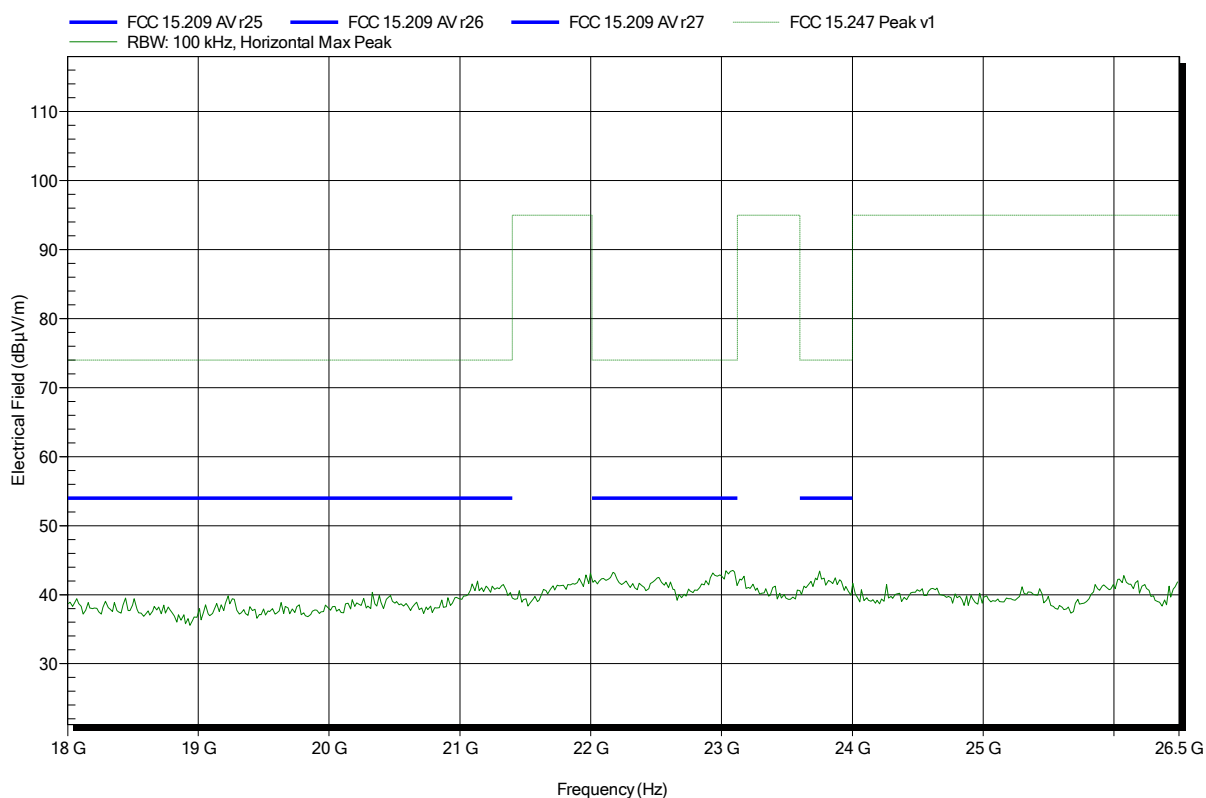


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m
Mode:	BASIC RATE; Fmid
Test Date:	2014-09-24
Note:	

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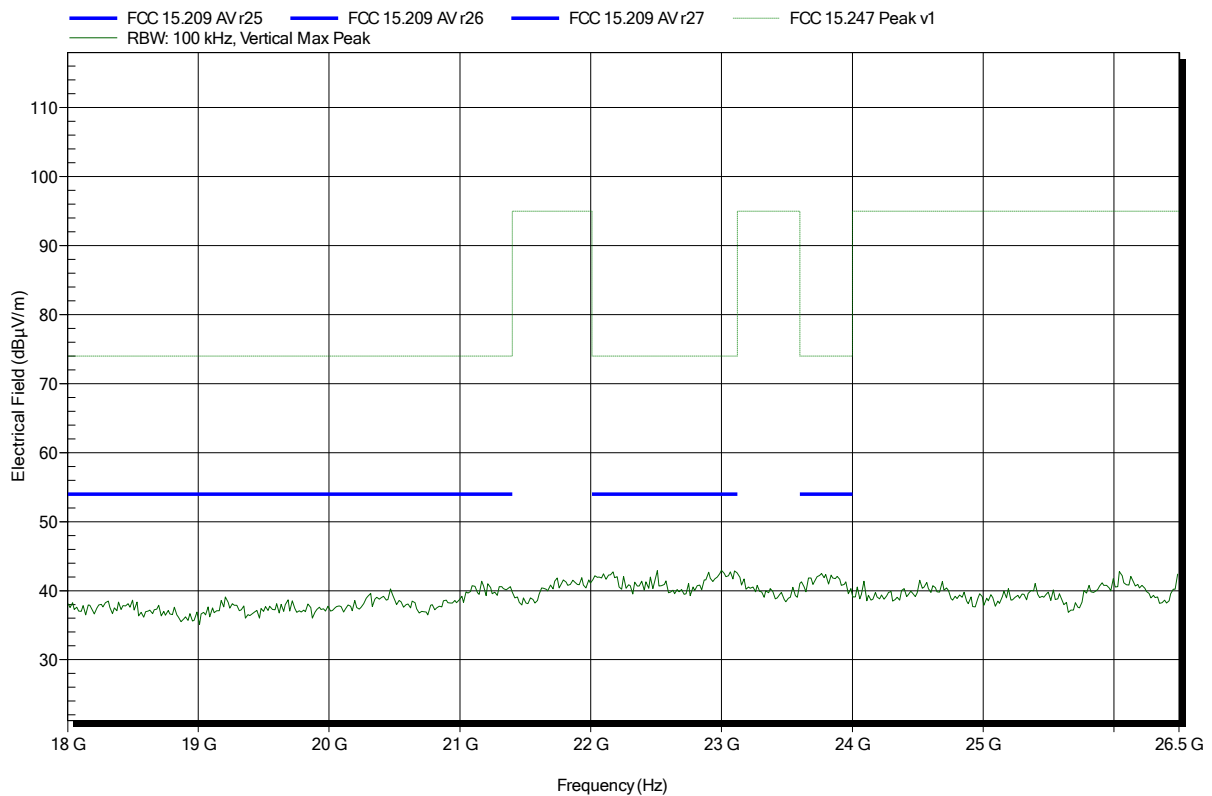


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m
Mode:	BASIC RATE; Fhigh
Test Date:	2014-09-24
Note:	

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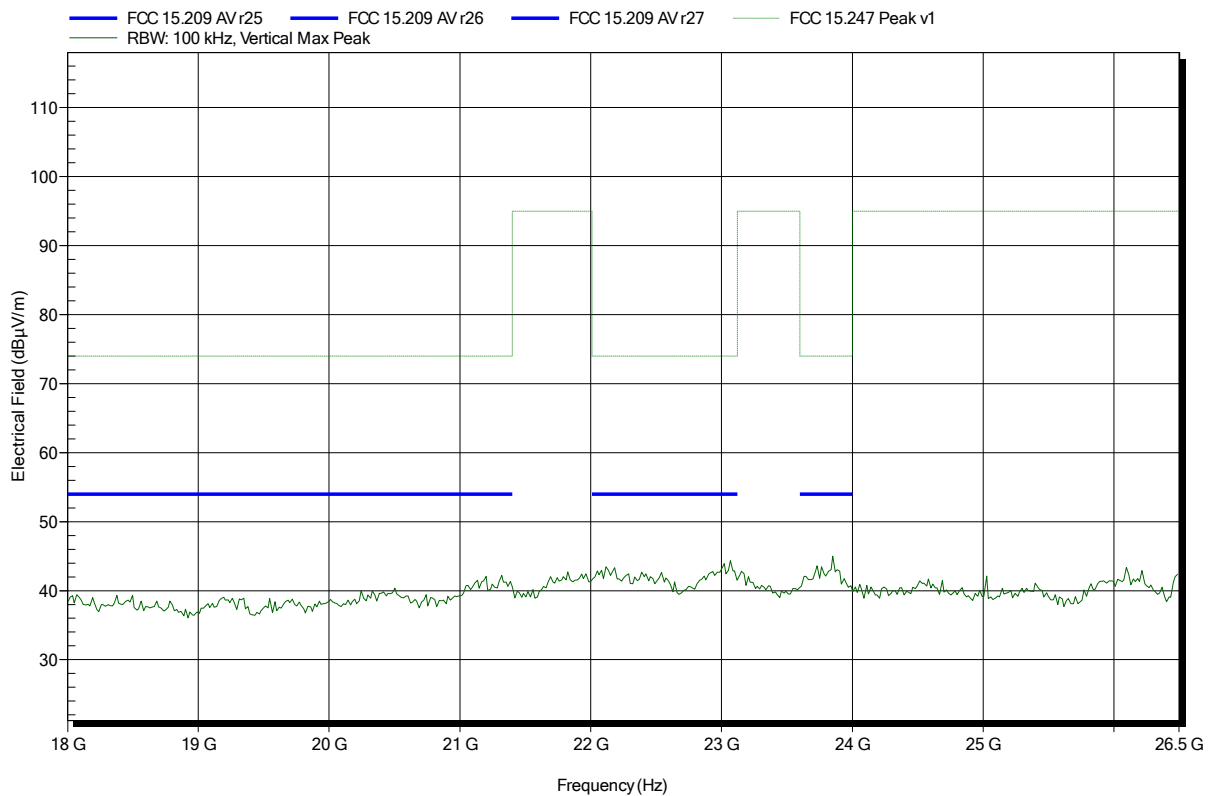


**Spurious emissions according to FCC 15.247**

Project number: GOM-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m
Mode:	BASIC RATE; Flow
Test Date:	2014-09-24
Note:	

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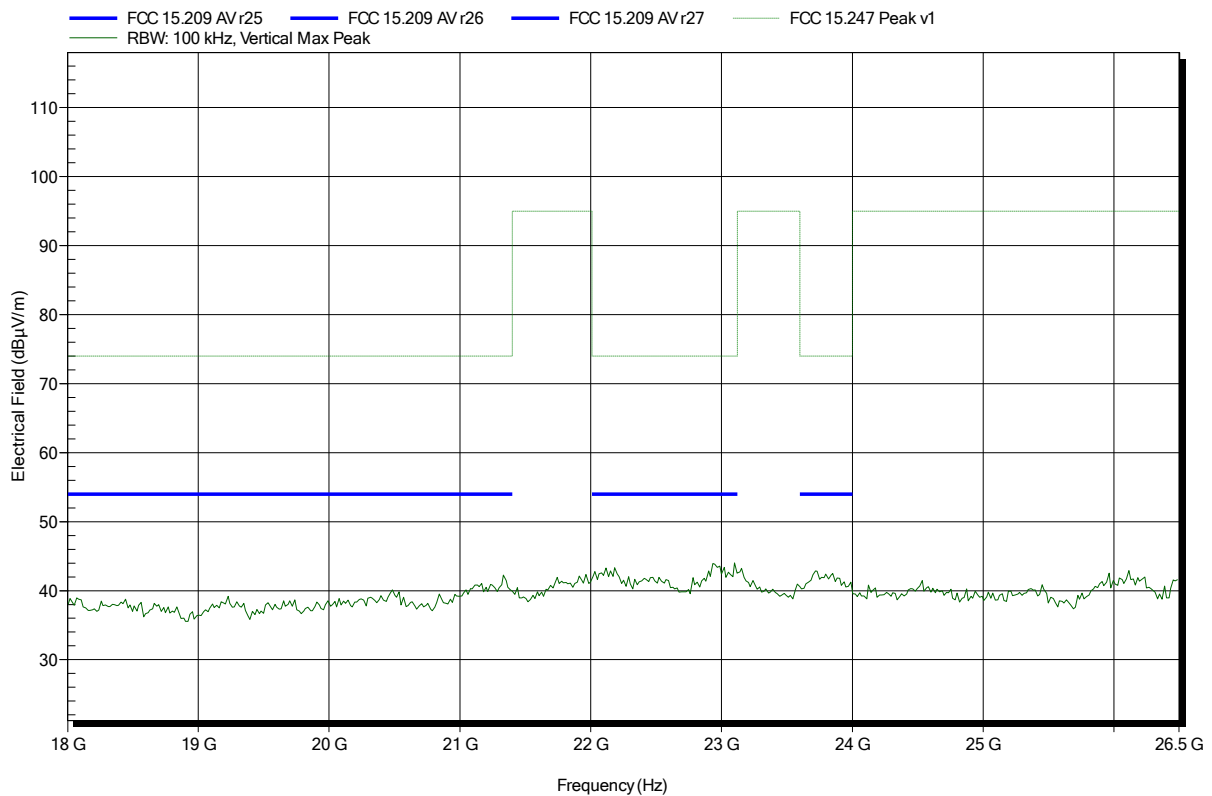


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m
Mode:	BASIC RATE; Fmid
Test Date:	2014-09-24
Note:	

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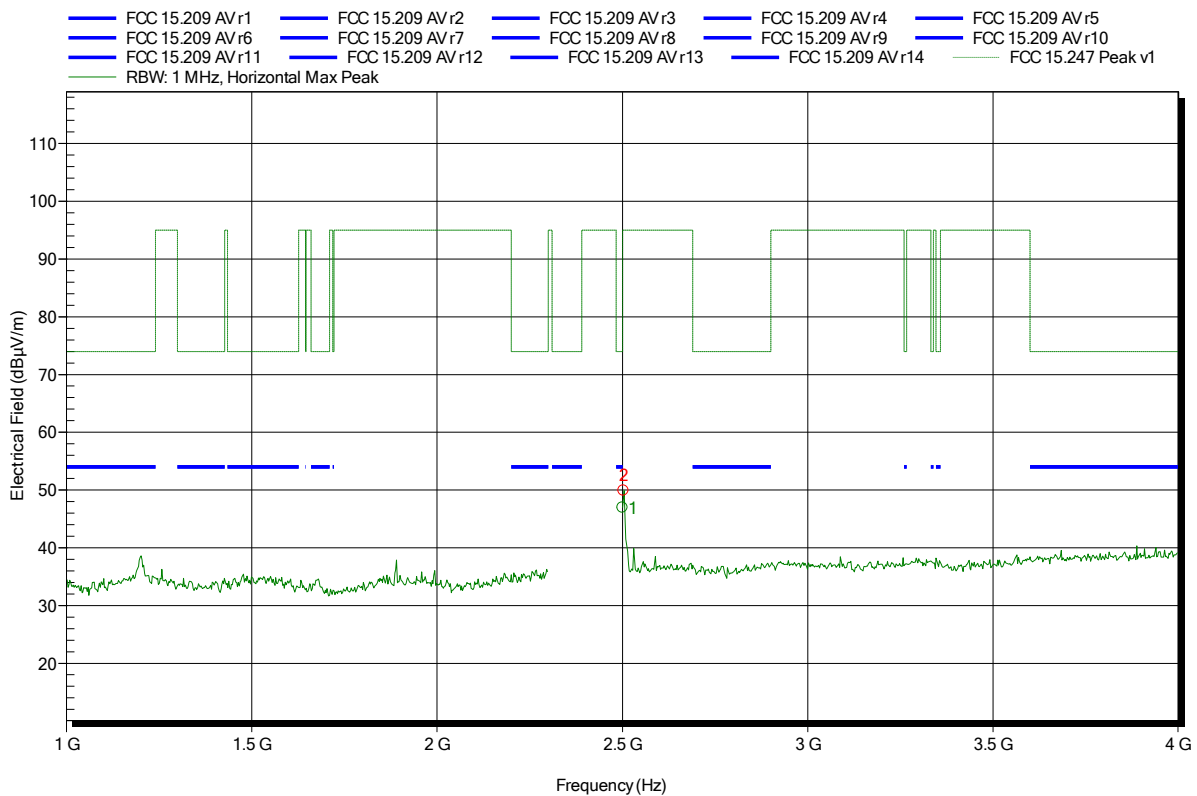


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; EDR Fhigh  
 Test Date: 2014-09-22  
 Note:

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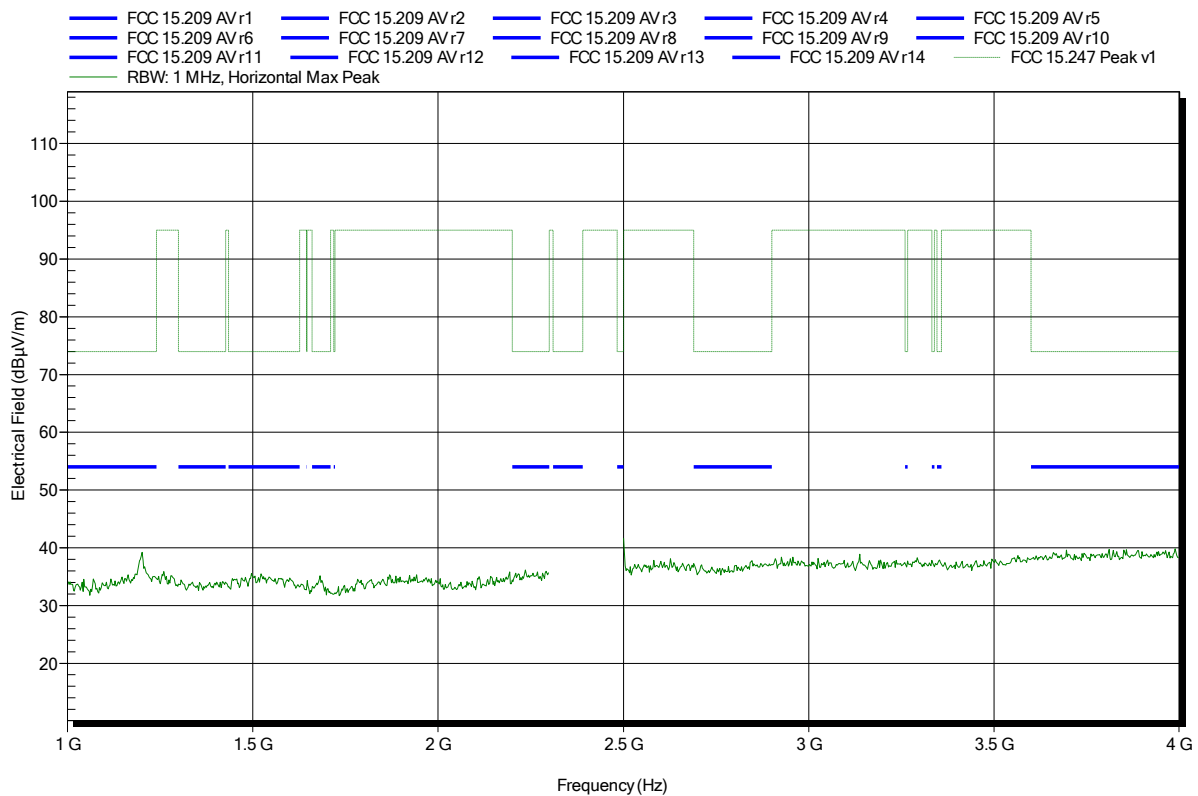
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.5 GHz	46.95 dBµV/m	74 dBµV/m	-27.05 dB	Pass
2.503 GHz	49.9 dBµV/m	95 dBµV/m	-45.1 dB	Pass

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; EDR Flow  
 Test Date: 2014-09-23  
 Note:

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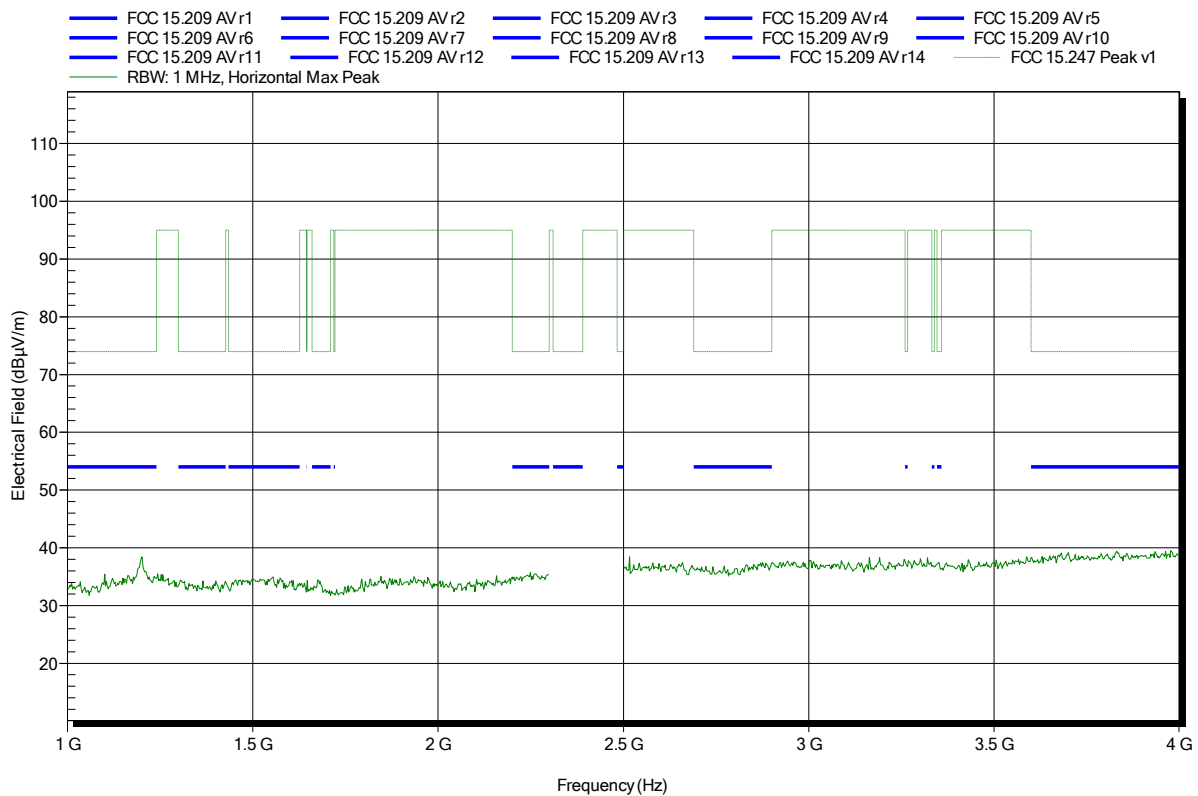


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; EDR Fmid  
 Test Date: 2014-09-22  
 Note:

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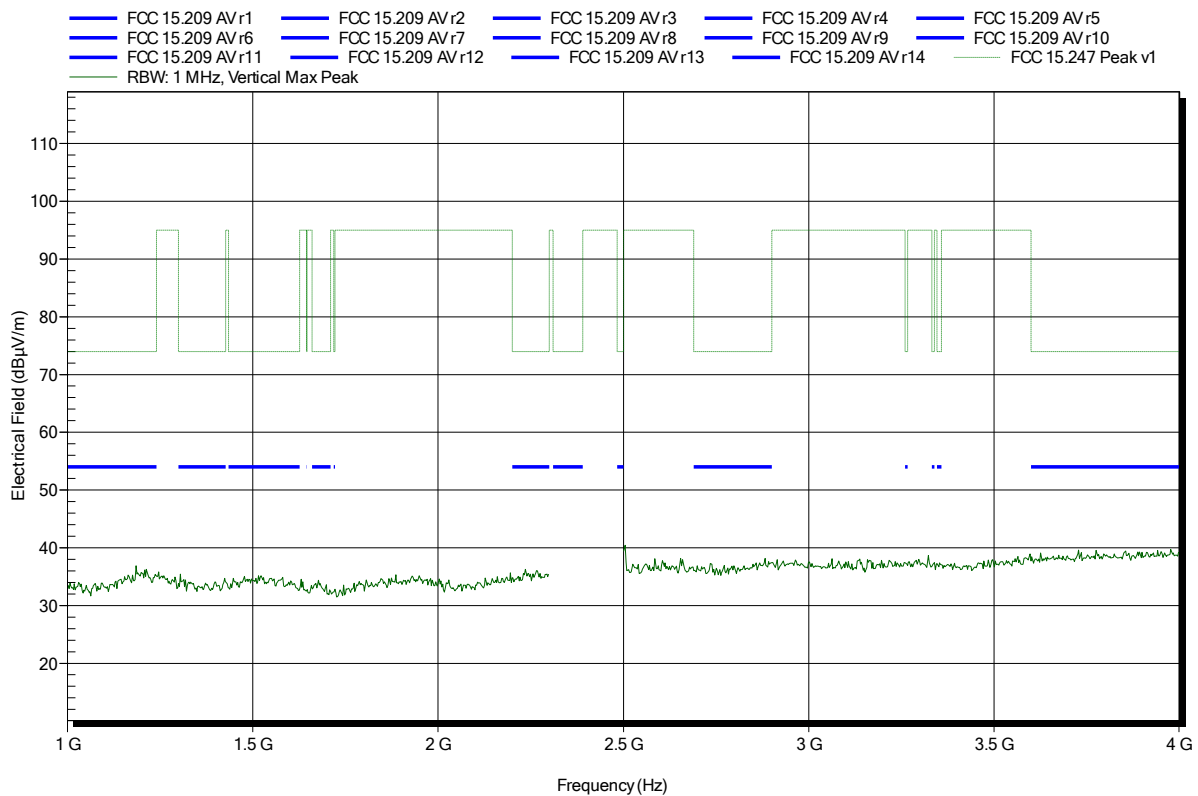


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; EDR Fhigh  
 Test Date: 2014-09-22  
 Note:

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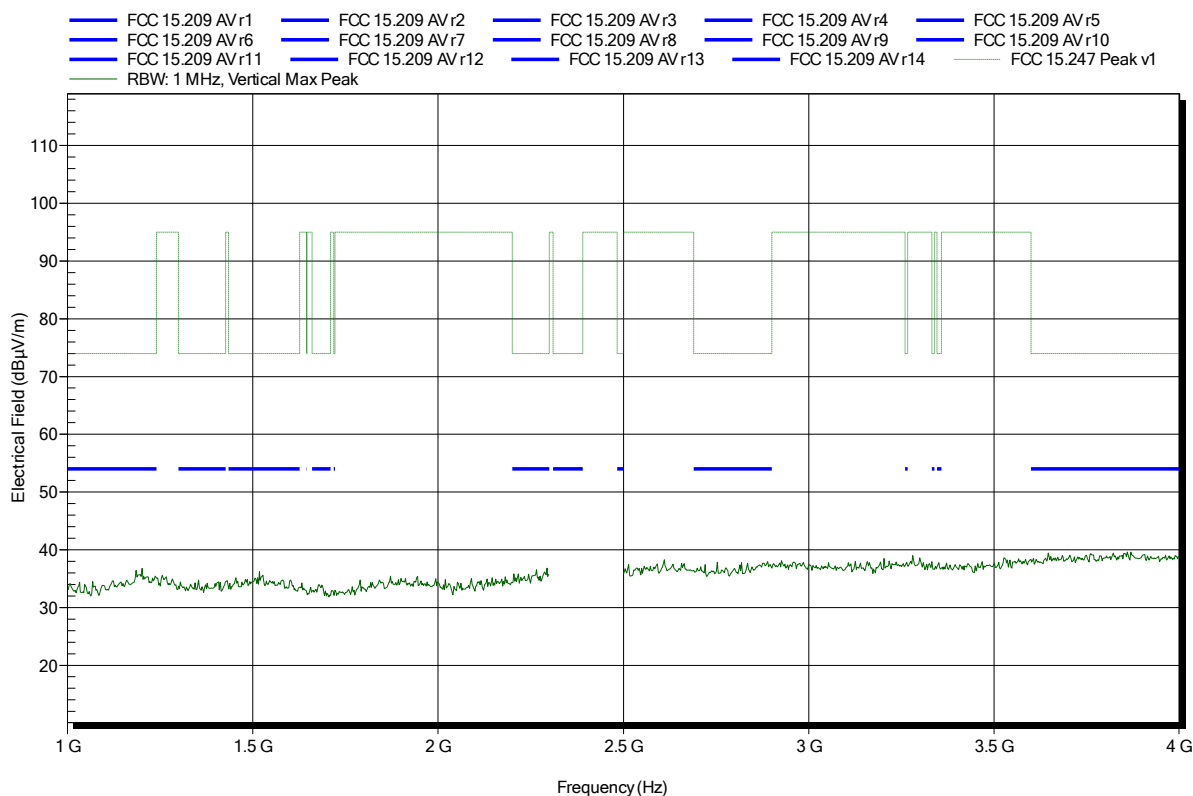


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; EDR Flow  
 Test Date: 2014-09-23  
 Note:

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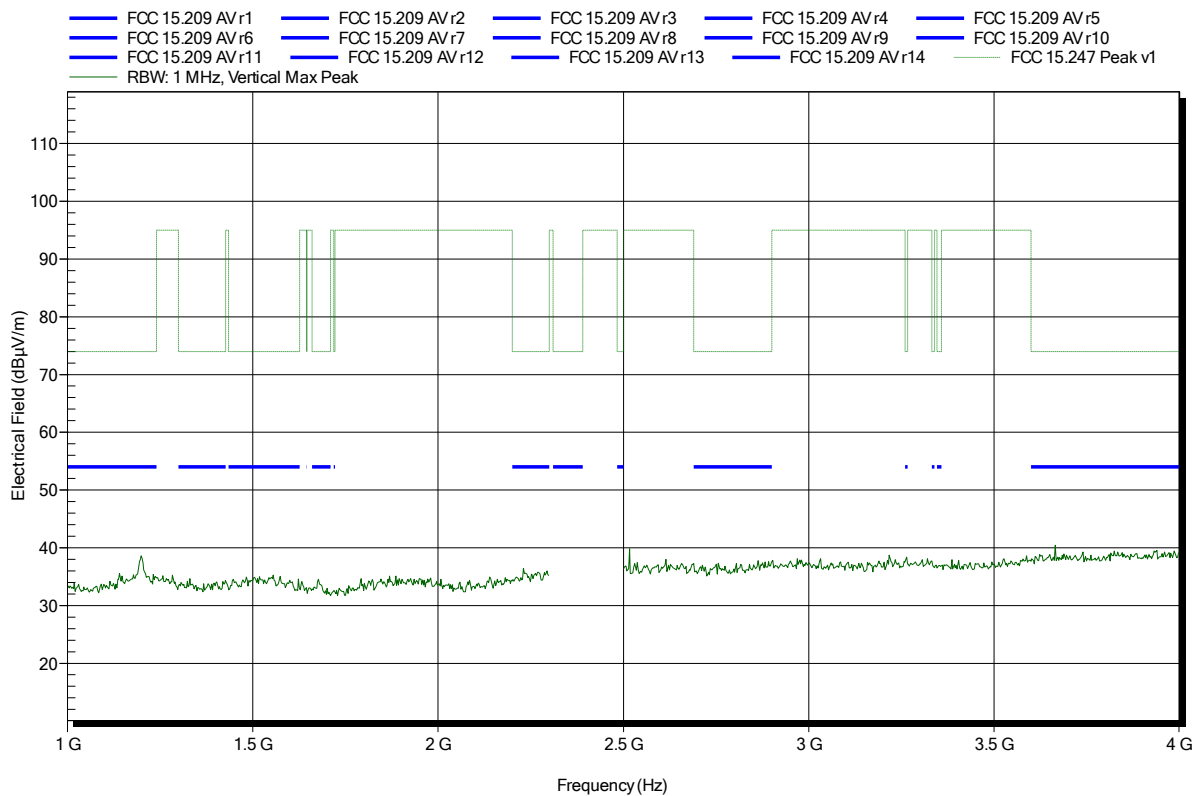


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; EDR Fmid  
 Test Date: 2014-09-22  
 Note:

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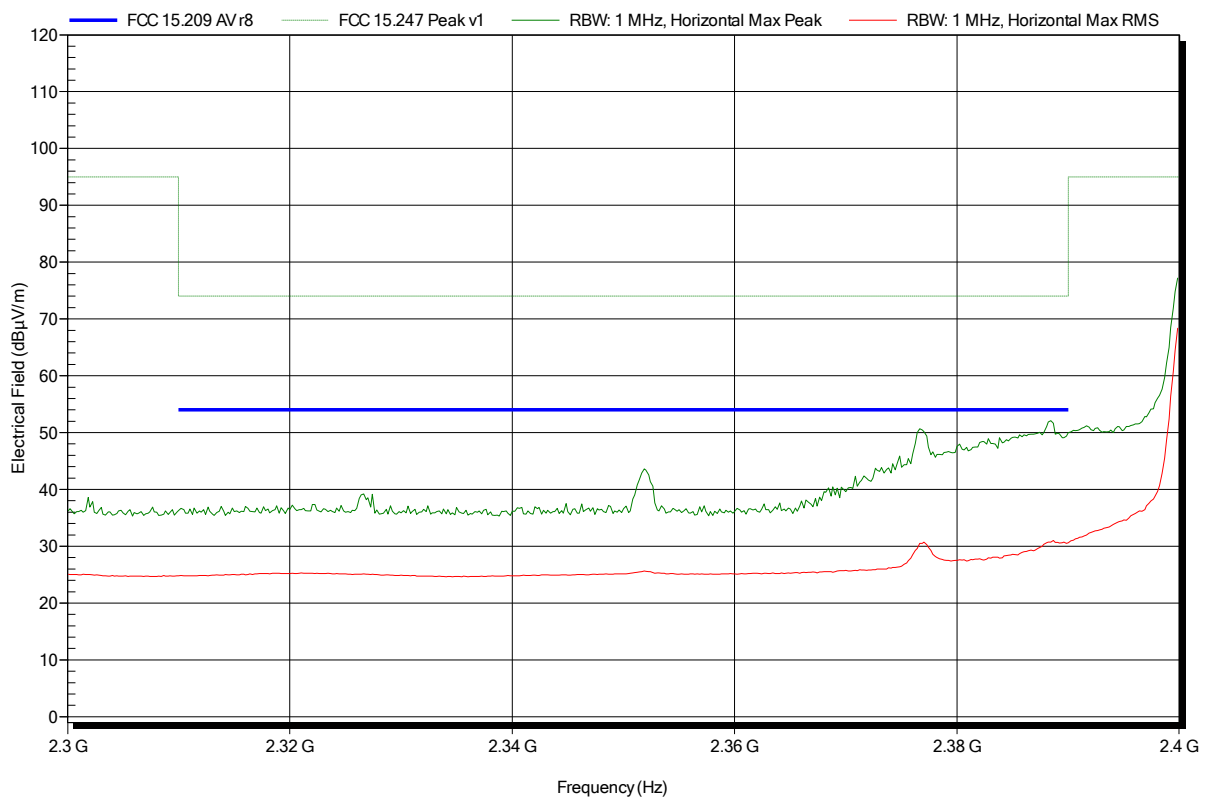


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	TX; EDR Flow
Test Date:	2014-09-23
Note:	lower bandedge

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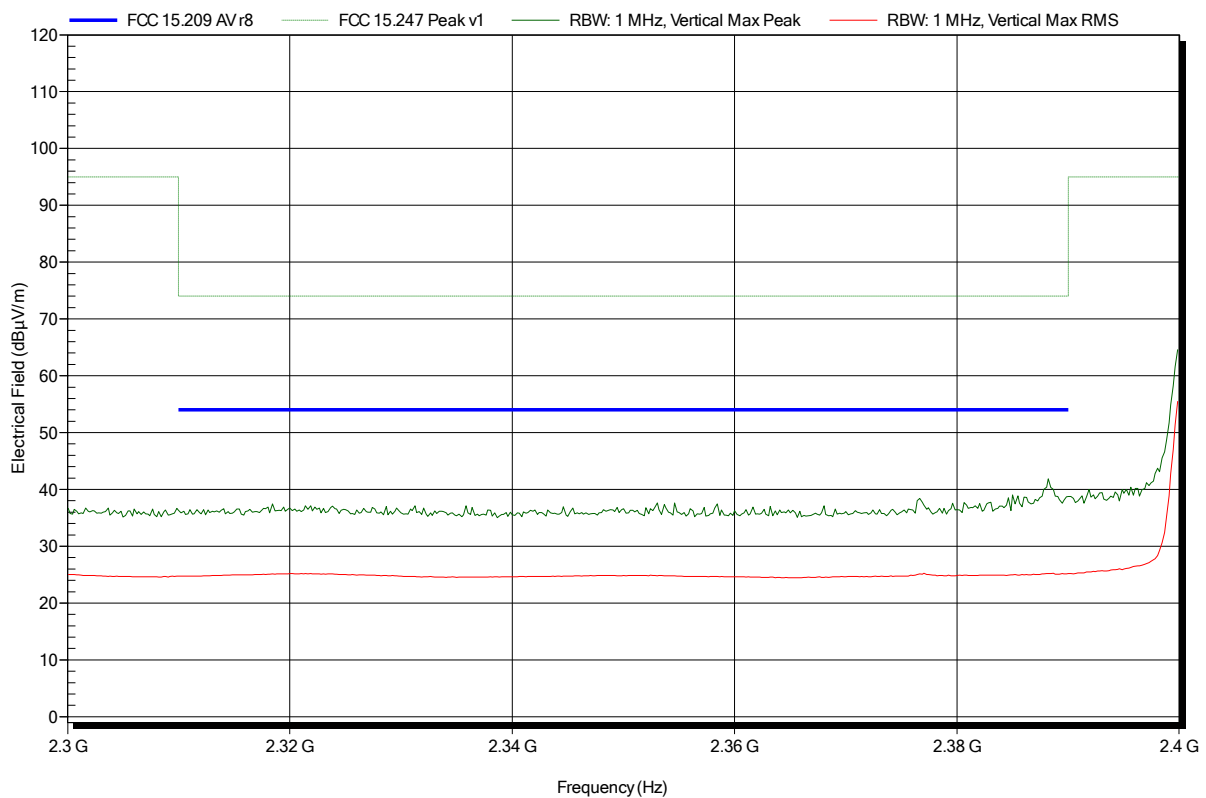


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	TX; EDR Flow
Test Date:	2014-09-23
Note:	lower bandedge

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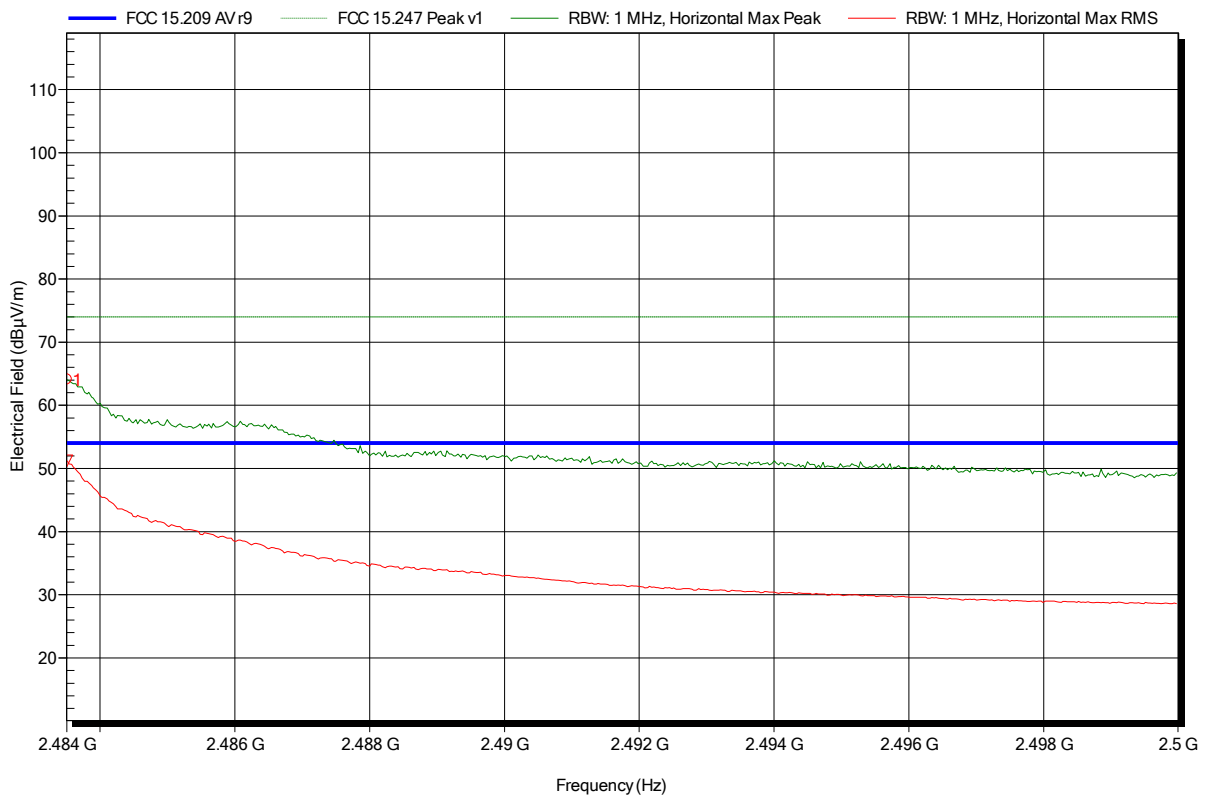


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; EDR Fhigh  
 Test Date: 2014-09-22  
 Note: upper bandedge

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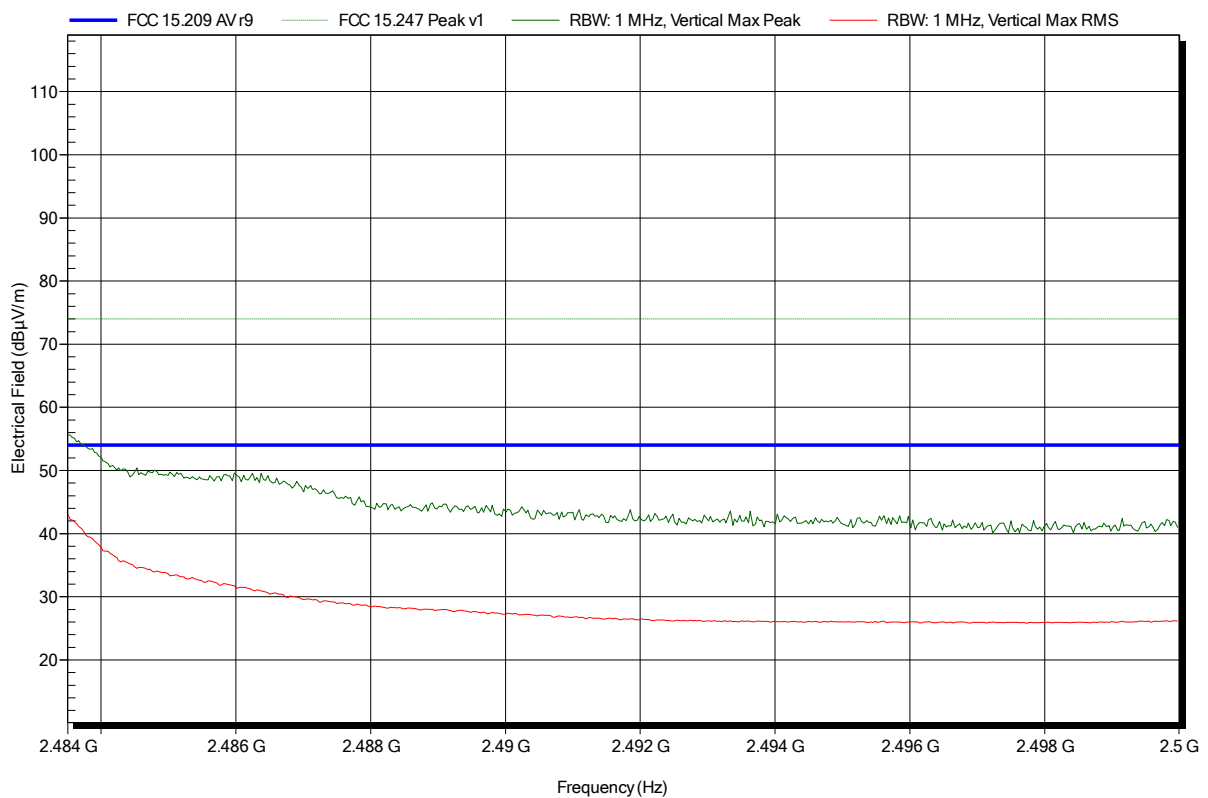
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4835 GHz	64.09 dBµV/m	74 dBµV/m	-9.91 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4835 GHz	51.2 dBµV/m	54 dBµV/m	-2.8 dB	Pass

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	TX; EDR Fhigh
Test Date:	2014-09-22
Note:	upper bandedge

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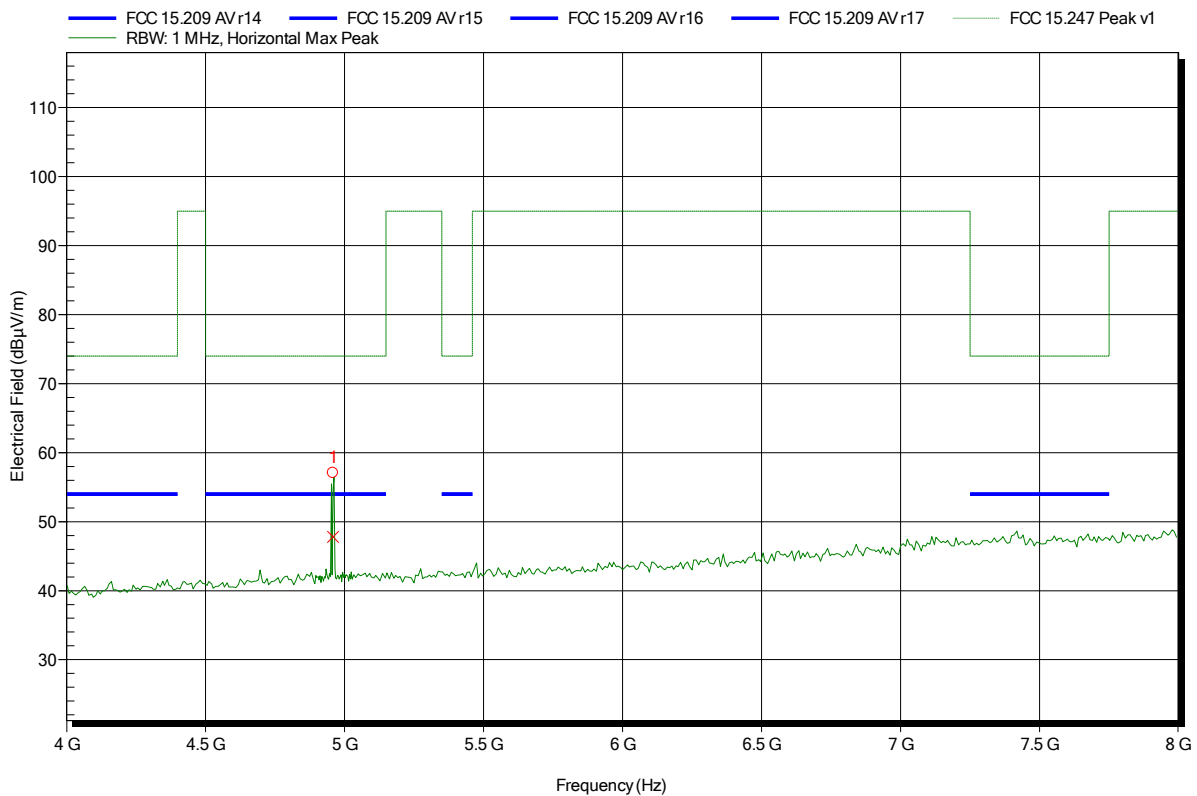


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Horizontal  
 Measurement distance: 3 m  
 Mode: TX; EDR Fhigh  
 Test Date: 2014-09-22  
 Note:

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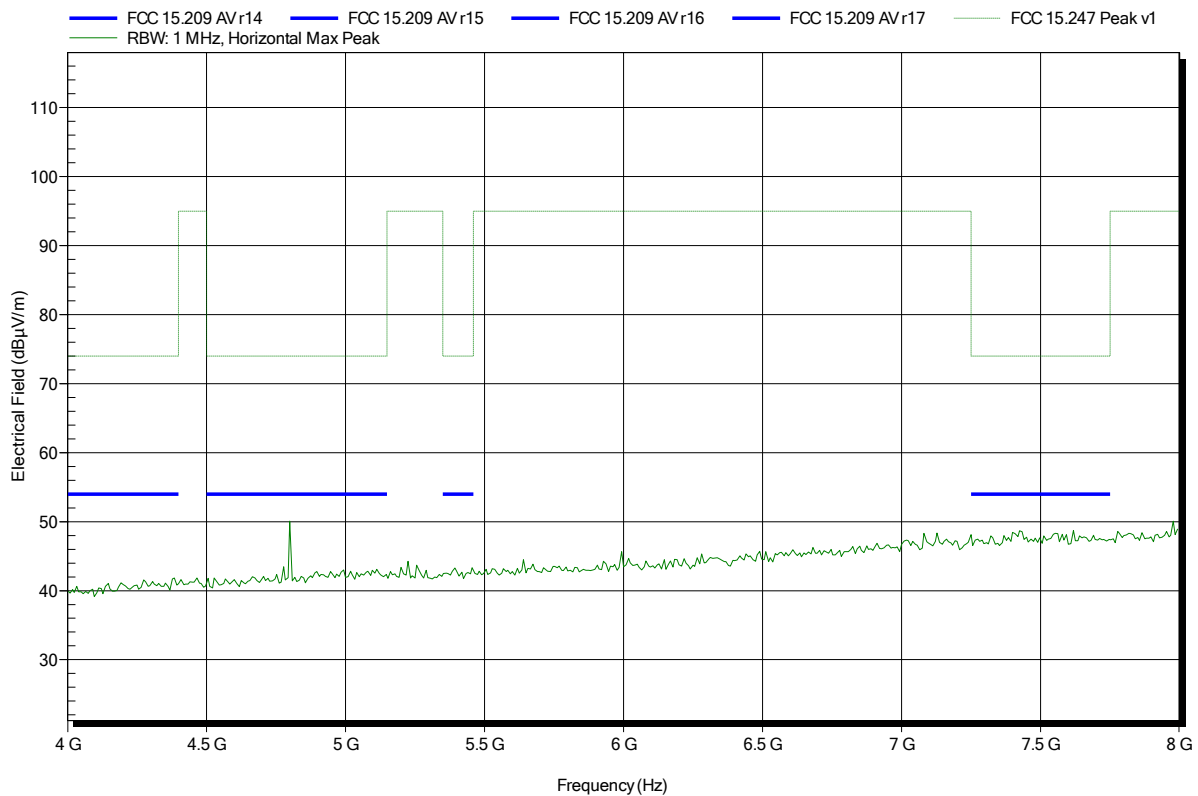
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.96 GHz	57.06 dBµV/m	74 dBµV/m	-16.94 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
4.96 GHz	47.82 dBµV/m	54 dBµV/m	-6.18 dB	Pass

**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	TX; EDR Flow
Test Date:	2014-09-23
Note:	

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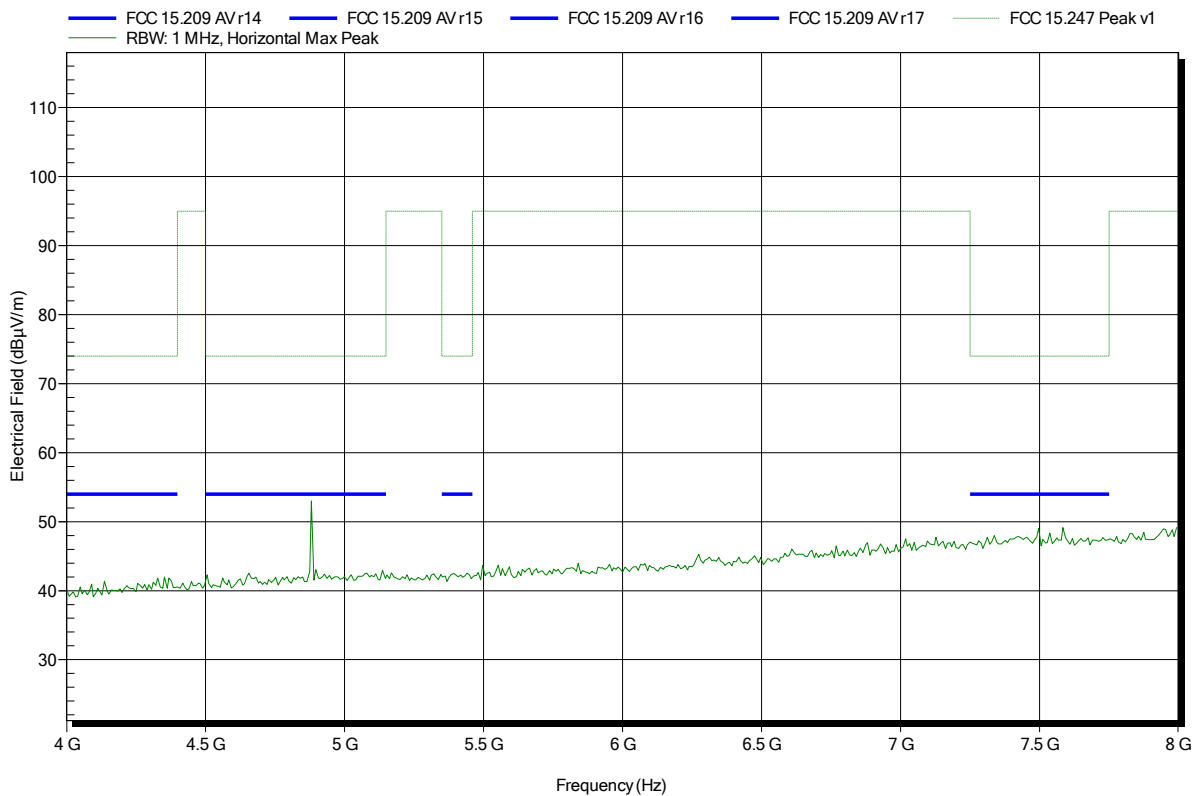


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	TX; EDR Fmid
Test Date:	2014-09-22
Note:	

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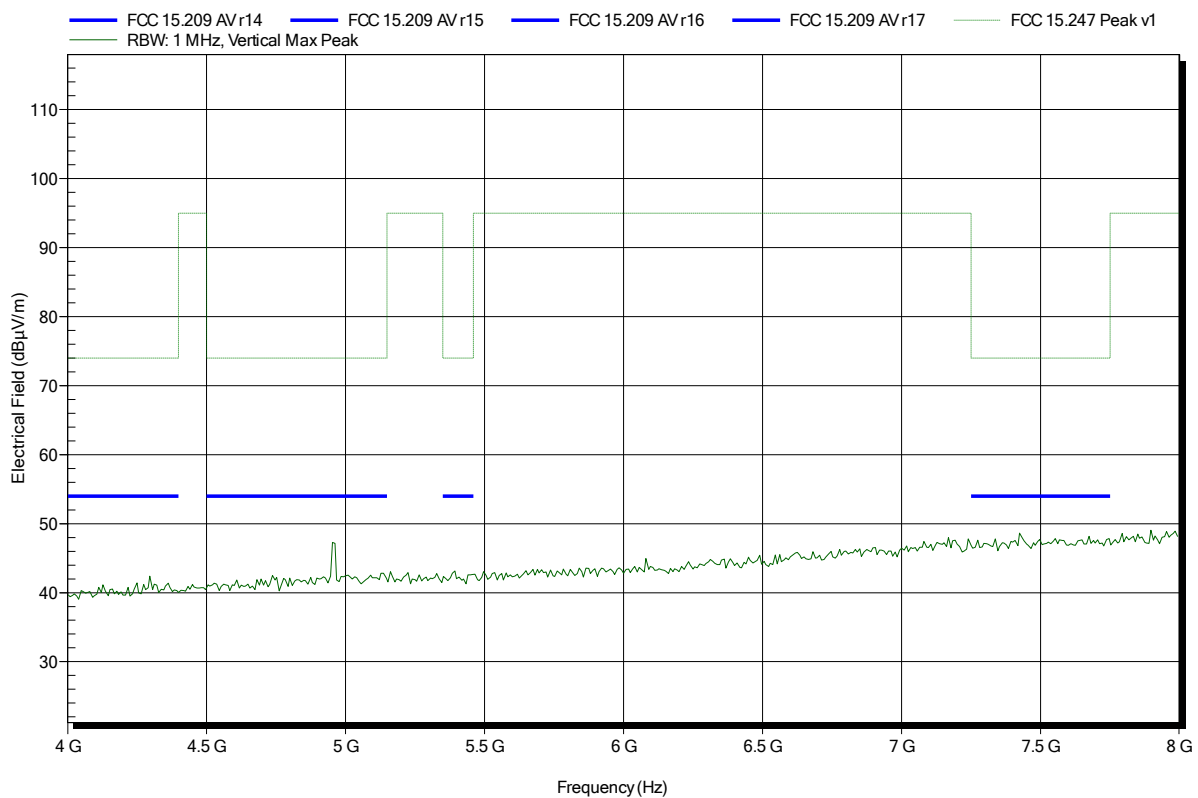


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	TX; EDR Fhigh
Test Date:	2014-09-22
Note:	

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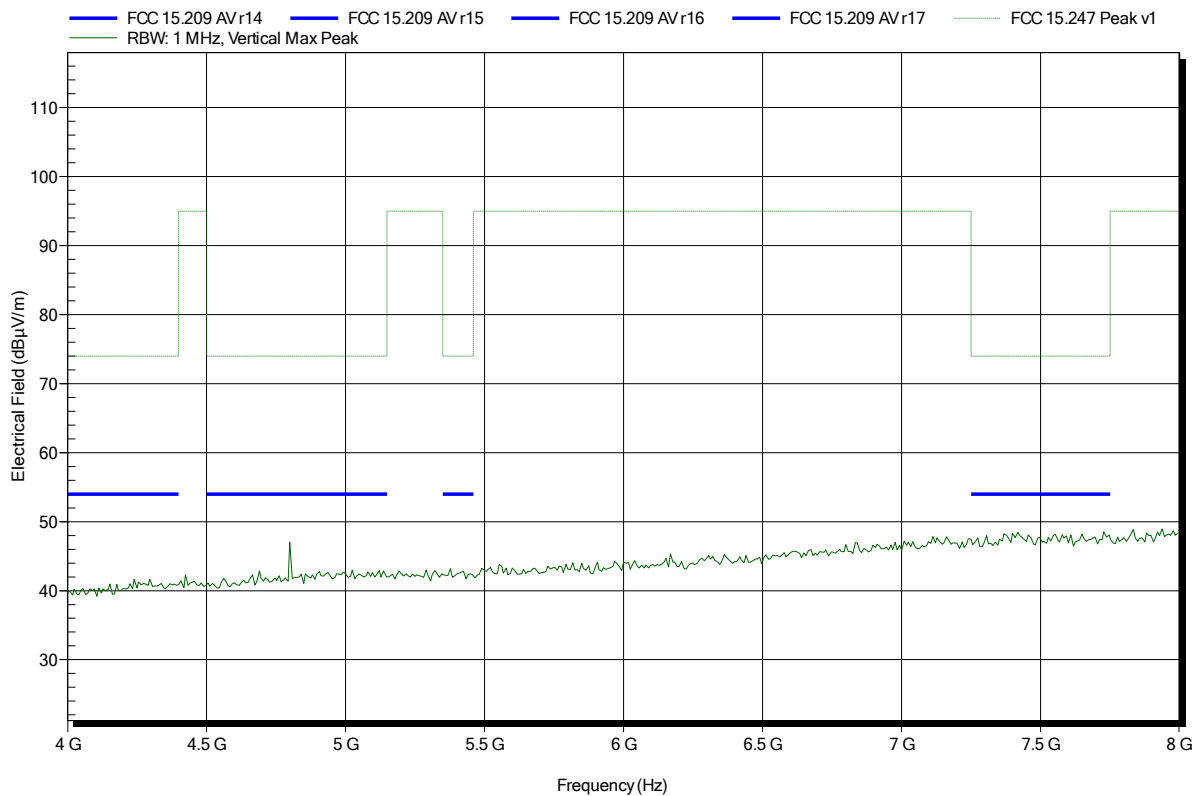


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	TX; EDR Flow
Test Date:	2014-09-23
Note:	

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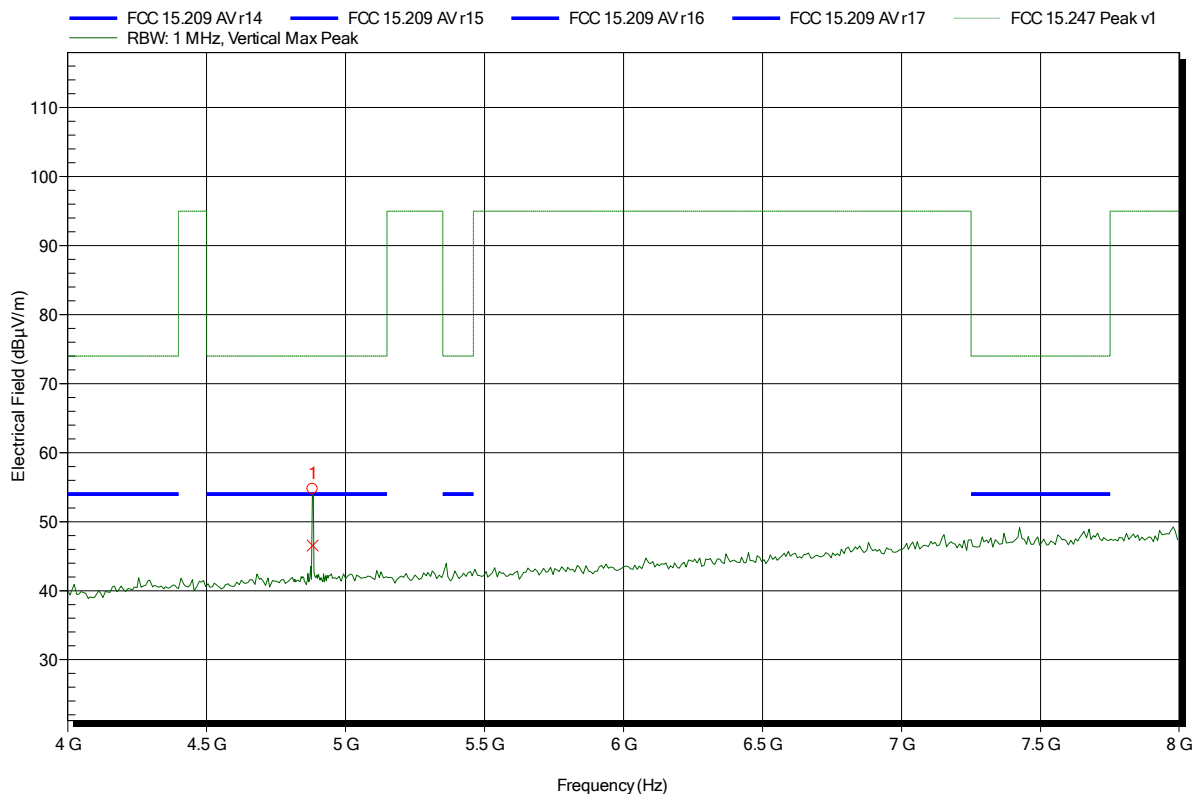


**Spurious emissions according to FCC 15.247**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Schwarzbeck BBHA 9120D, Vertical  
 Measurement distance: 3 m  
 Mode: TX; EDR Fmid  
 Test Date: 2014-09-22  
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.882 GHz	54.75 dBµV/m	74 dBµV/m	-19.25 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
4.882 GHz	46.55 dBµV/m	54 dBµV/m	-7.45 dB	Pass

Test Report No.: G0M-1407-3973-TFC247BT-V01

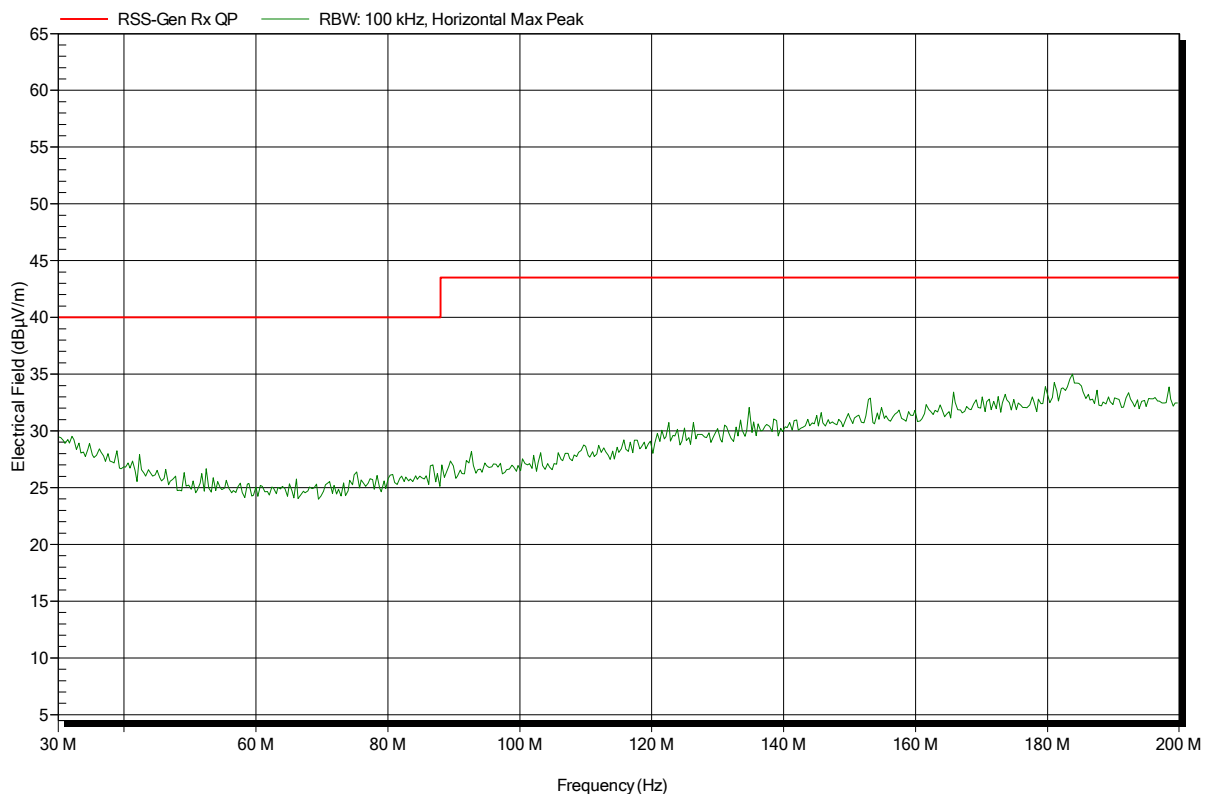
 Eurofins Product Service GmbH  
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

## ANNEX B Receiver radiated spurious emissions Spurious emissions according to RSS-GEN

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	RX; Scan Mode
Test Date:	2014-09-24
Note:	

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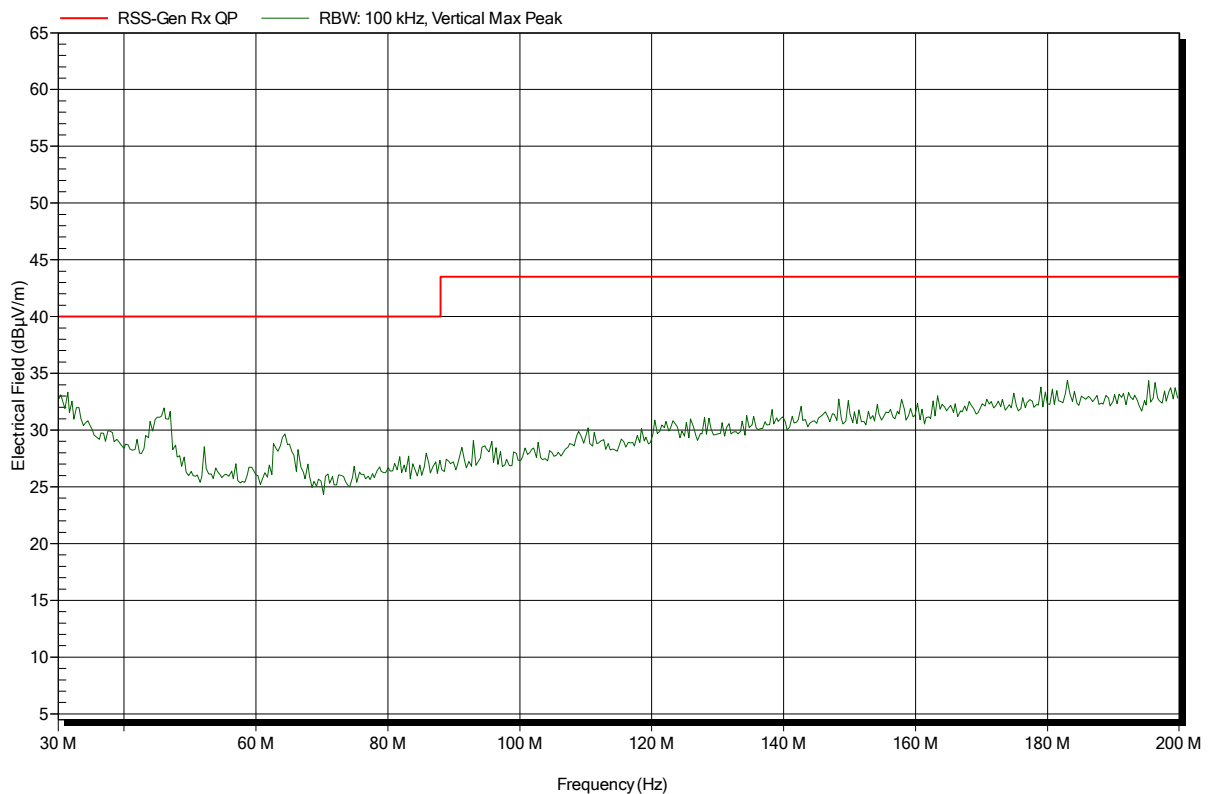


**Spurious emissions according to RSS-GEN**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	RX; Scan Mode
Test Date:	2014-09-24
Note:	

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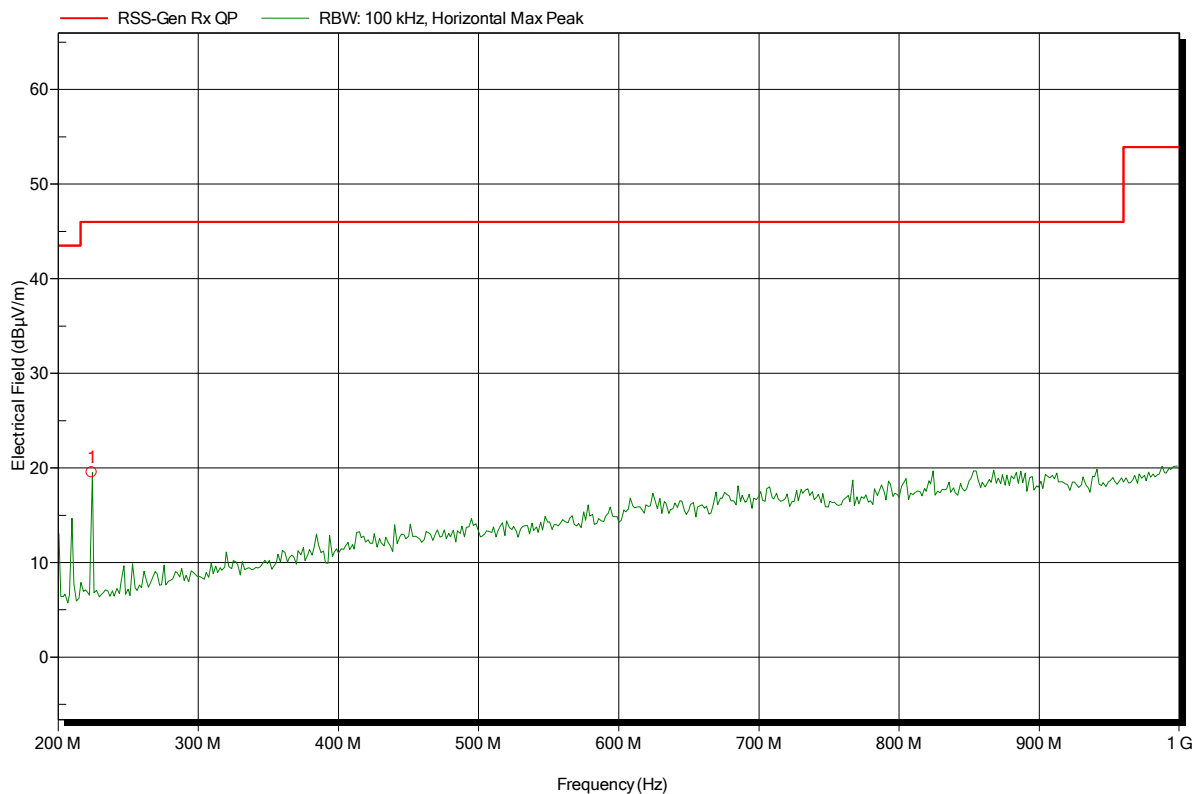


**Spurious emissions according to RSS-GEN**

Project number: G0M-1407-3973

Applicant: BARTEC PIXAVI AS  
 EUT Name: Smartphone  
 Model: ImpactX  
 Test Site: Eurofins Product Service GmbH  
 Operator: Mr. Jahn  
 Test Conditions: Tnom: 24°C, Vnom: 5.0VDC via USB  
 Antenna: Rohde & Schwarz HL 223, Horizontal  
 Measurement distance: 3 m  
 Mode: RX; Scan Mode  
 Test Date: 2014-09-24  
 Note:

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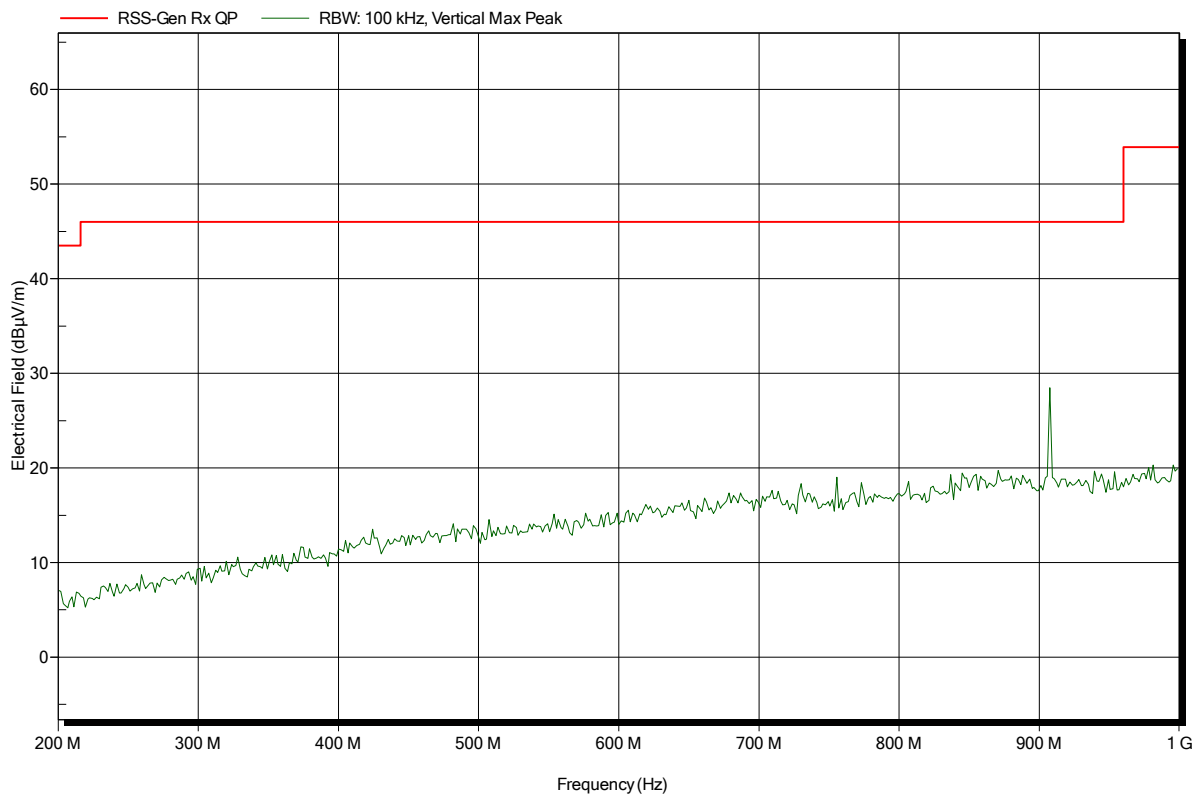
Frequency	Peak	Peak Limit	Peak Difference	Status
224 MHz	19.51 dBµV/m	46 dBµV/m	-26.49 dB	Pass

**Spurious emissions according to RSS-GEN**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	RX; Scan Mode
Test Date:	2014-09-24
Note:	

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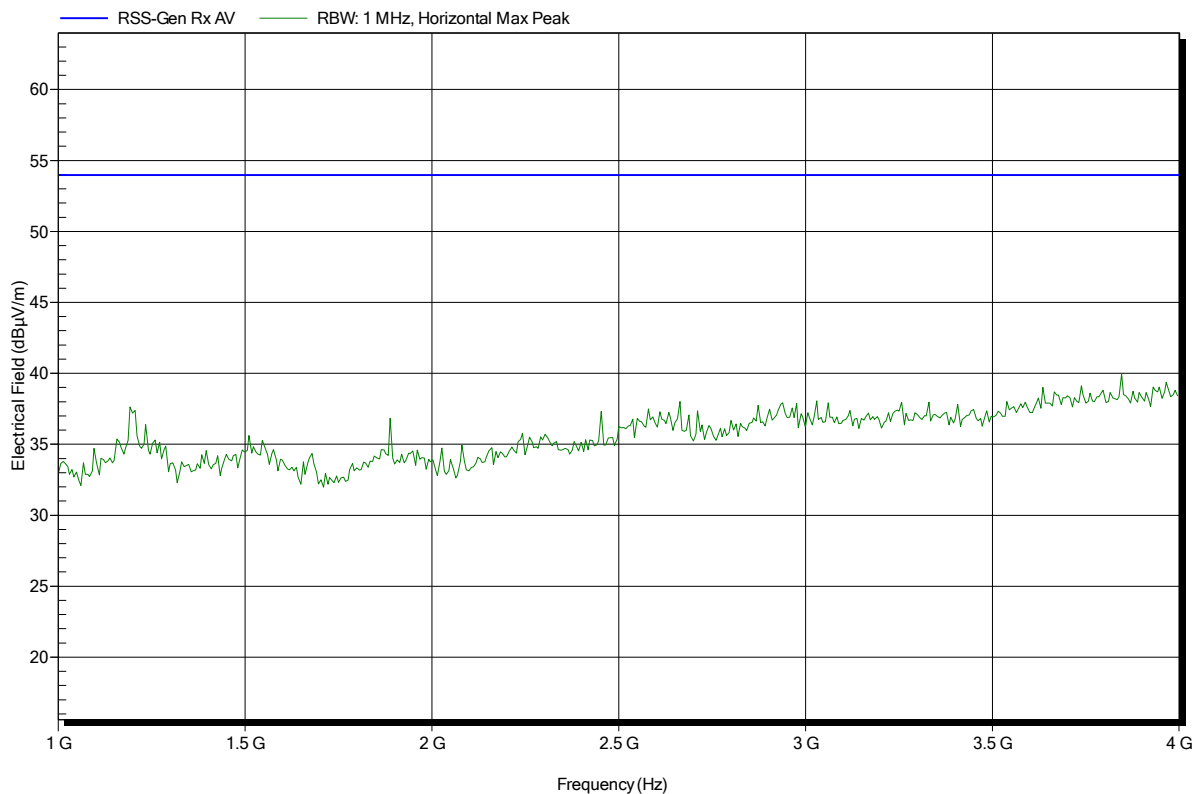


**Spurious emissions according to RSS-GEN**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	RX; Scan Mode
Test Date:	2014-09-24
Note:	

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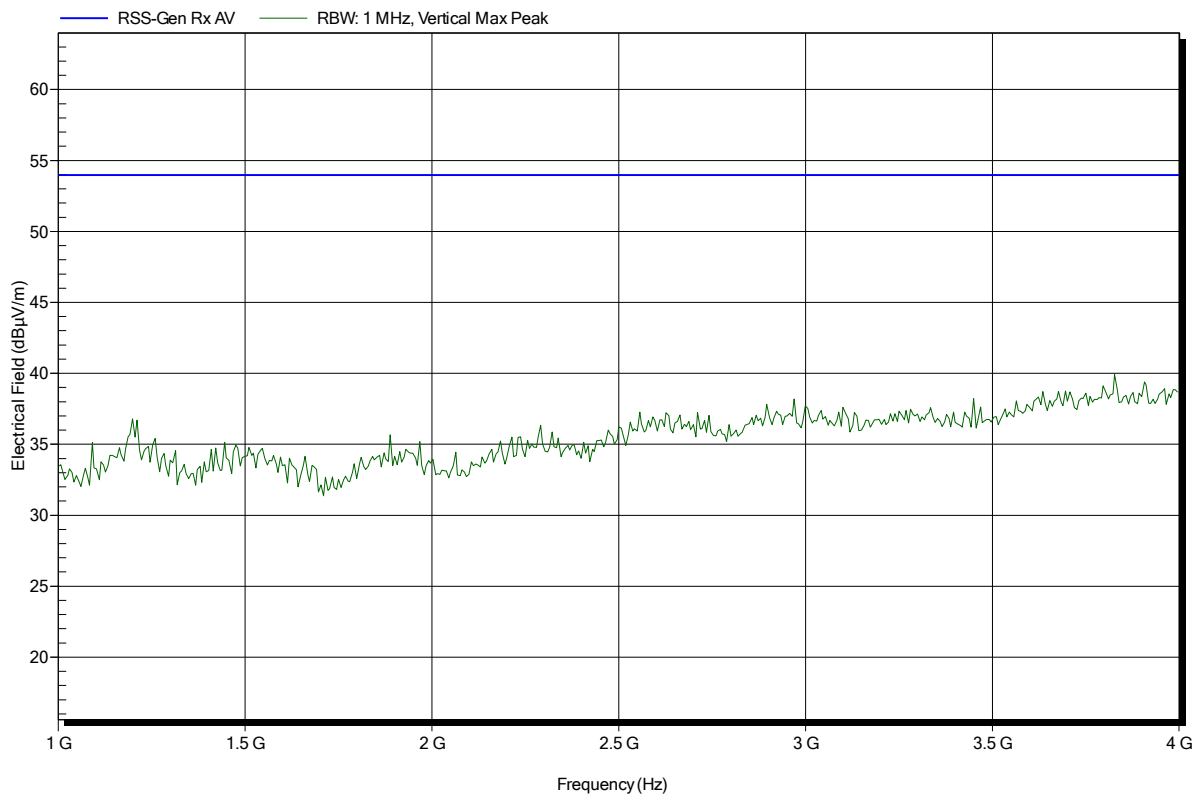


**Spurious emissions according to RSS-GEN**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	RX; Scan Mode
Test Date:	2014-09-24
Note:	

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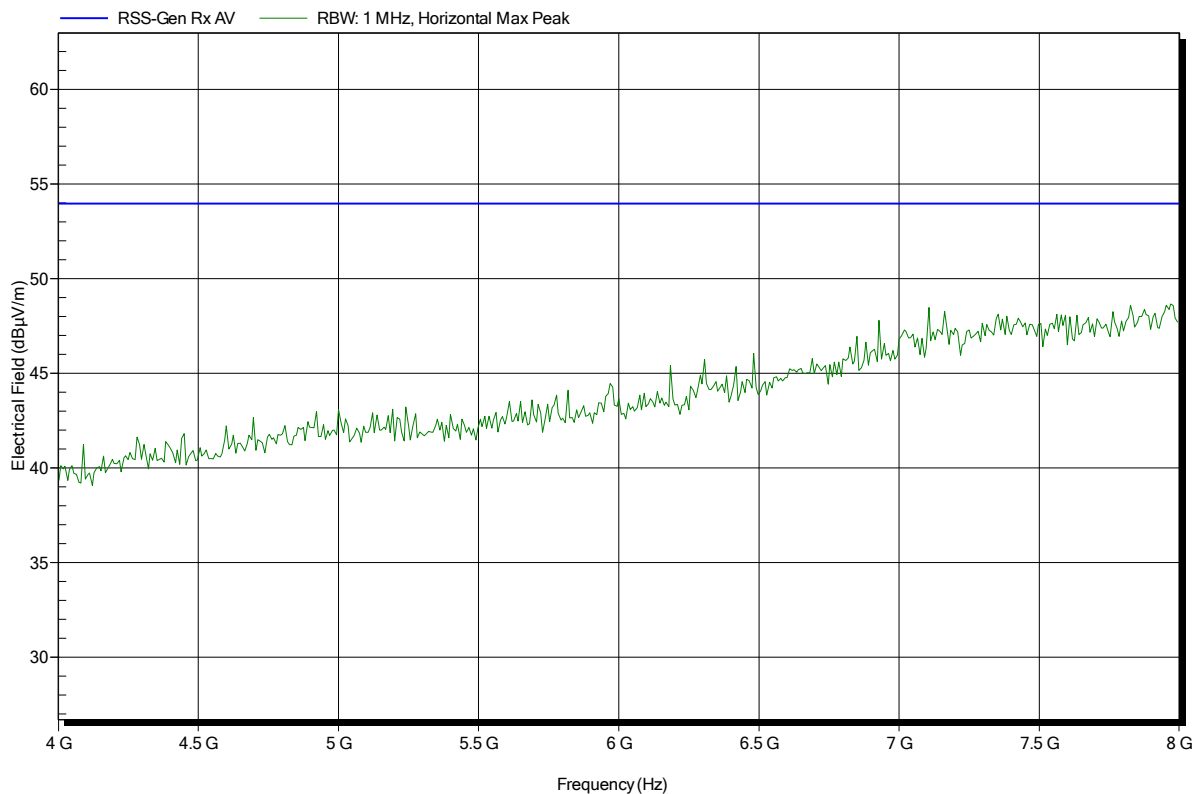


**Spurious emissions according to RSS-GEN**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	RX; Scan Mode
Test Date:	2014-09-24
Note:	

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**Spurious emissions according to RSS-GEN**

Project number: G0M-1407-3973

Applicant:	BARTEC PIXAVI AS
EUT Name:	Smartphone
Model:	ImpactX
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Jahn
Test Conditions:	Tnom: 24°C, Vnom: 5.0VDC via USB
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	RX; Scan Mode
Test Date:	2014-09-24
Note:	

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