

FCC TEST REPORT FCC 47 CFR Part 15C Industry Canada RSS-210 Frequency hopping systems operating within the 2400 – 2483.5 MHz band															
Report Reference No.	G0M-1407-3973-TFC247BT-V01														
Testing Laboratory	Eurofins Product Service GmbH														
Address	Storkower Str. 38c 15526 Reichenwalde Germany														
Accreditation	  A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A														
Applicant's name	BARTEC PIXAVI AS														
Address	Domkirkeplassen 2 4006 Stavanger NORWAY														
Test specification:	Standard: 47 CFR Part 15C RSS-210, Issue 8, 2010-12 RSS-Gen, Issue 3, 2010-12 ANSI C63.4:2009														
Equipment under test (EUT):	<table border="0"> <tr> <td>Product description</td> <td>Smartphone</td> </tr> <tr> <td>Model No.</td> <td>ImpactX</td> </tr> <tr> <td>Additional Model(s)</td> <td>GravityX</td> </tr> <tr> <td>Brand Name(s)</td> <td>None</td> </tr> <tr> <td>Hardware version</td> <td>rev B0</td> </tr> <tr> <td>Firmware / Software version</td> <td>Android 4.2.2</td> </tr> <tr> <td></td> <td>FCC-ID: YML-X7SERIES IC: 9249A-X7SERIES</td> </tr> </table>	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
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														
Test result	Passed														

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

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

Possible test case verdicts:

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

Testing:

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

Test Lab Humidity : 32 – 38 %

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

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.

Version History

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

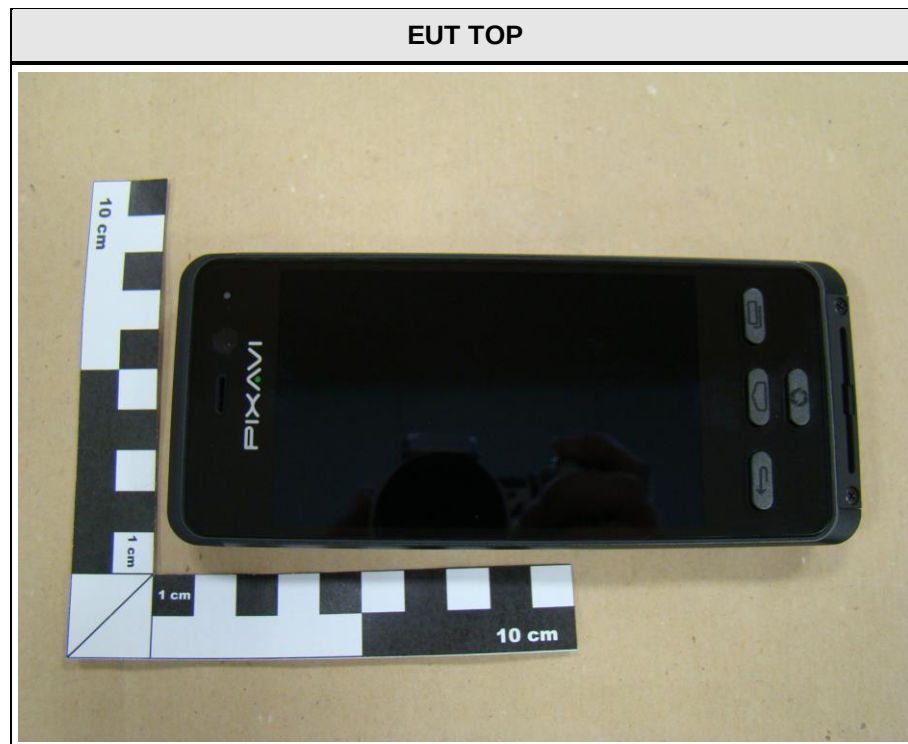
REPORT INDEX

1	EQUIPMENT (TEST ITEM) DESCRIPTION	5
1.1	Photos – Equipment External	6
1.2	Photos – Equipment External	7
1.3	Photos – Equipment internal	9
1.4	Photos – Test setup	11
1.5	Supporting Equipment Used During Testing	12
1.6	Test Modes	13
1.7	Test Equipment Used During Testing	15
1.8	Sample emission level calculation	17
2	RESULT SUMMARY	18
3	TEST CONDITIONS AND RESULTS	19
3.1	Test Conditions and Results – Occupied Bandwidth	19
3.2	Test Conditions and Results – 20 dB Bandwidth	29
3.3	Test Conditions and Results – Number of hopping frequencies	39
3.4	Test Conditions and Results – Frequency hopping channel separation	43
3.5	Test Conditions and Results – Time of occupancy (Dwell Time)	45
3.6	Test Conditions and Results – Maximum peak conducted power	47
3.7	Test Conditions and Results – AC power line conducted emissions	49
3.8	Test Conditions and Results – Band edge compliance	52
3.9	Test Conditions and Results – Conducted spurious emissions	66
3.10	Test Conditions and Results – Transmitter radiated emissions	73
3.11	Test Conditions and Results – Receiver radiated emissions	75
ANNEX A	Transmitter radiated spurious emissions	77
ANNEX B	Receiver radiated spurious emissions	125

1 Equipment (Test item) Description

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

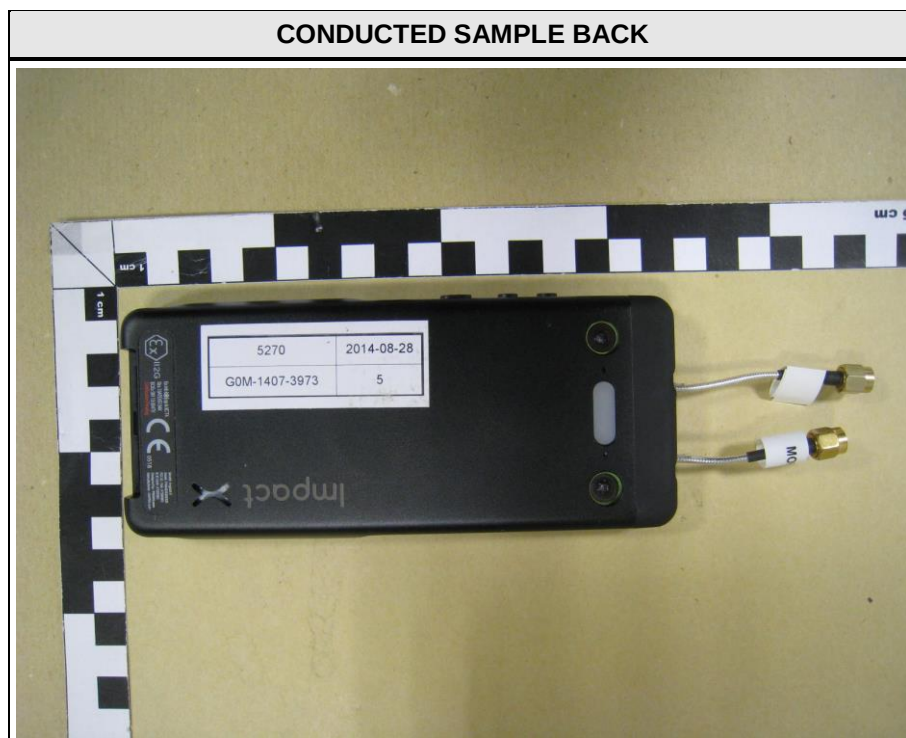
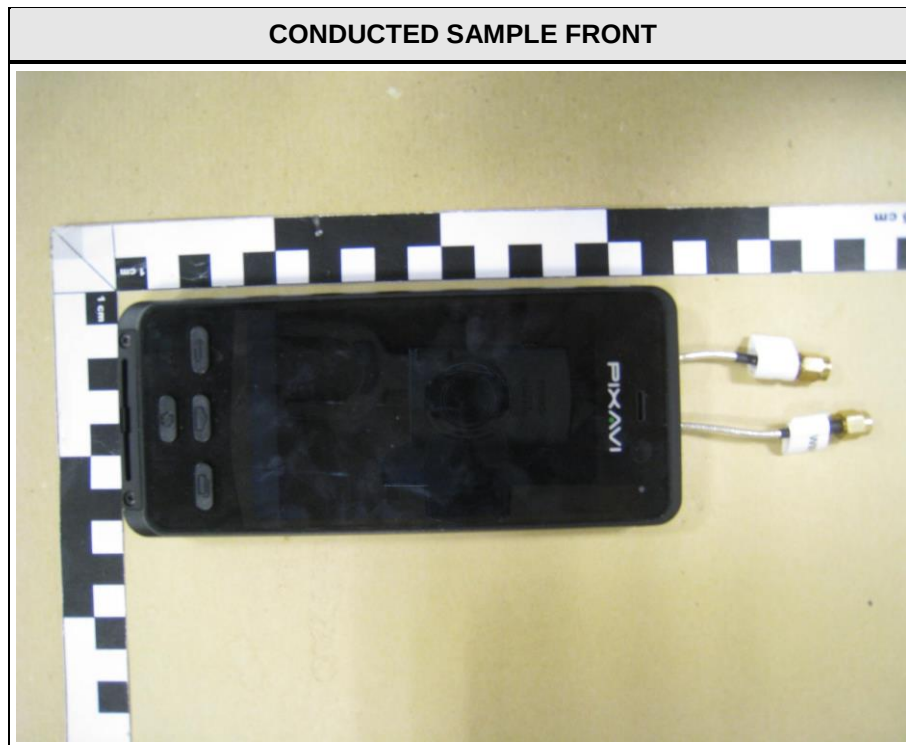
1.1 Photos – Equipment External



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

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

1.2 Photos – Equipment External



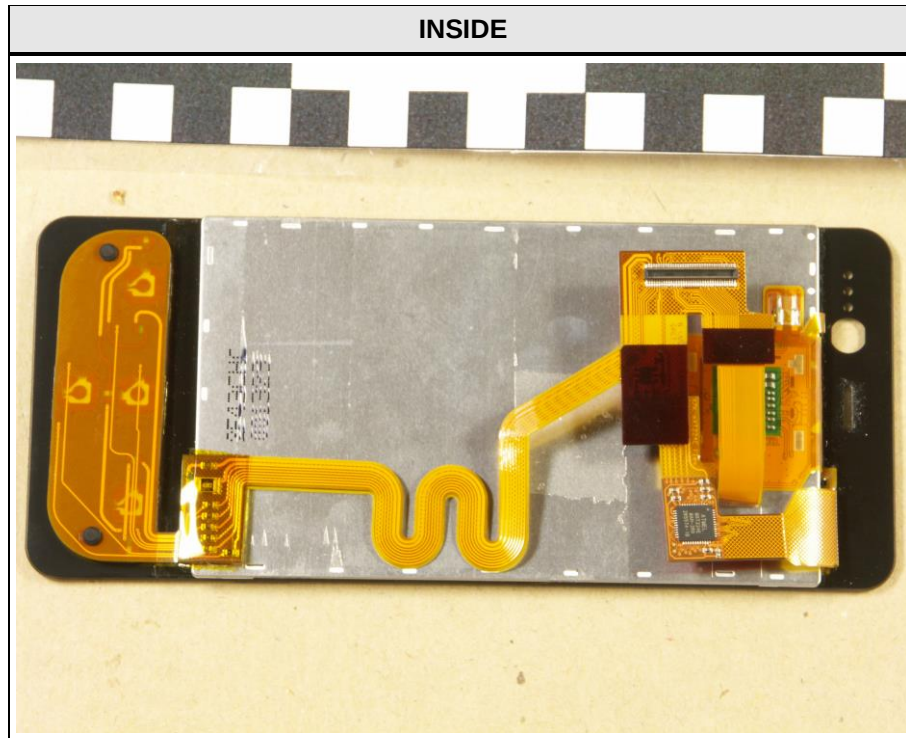
Test Report No.: G0M-1407-3973-TFC247BT-V01

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

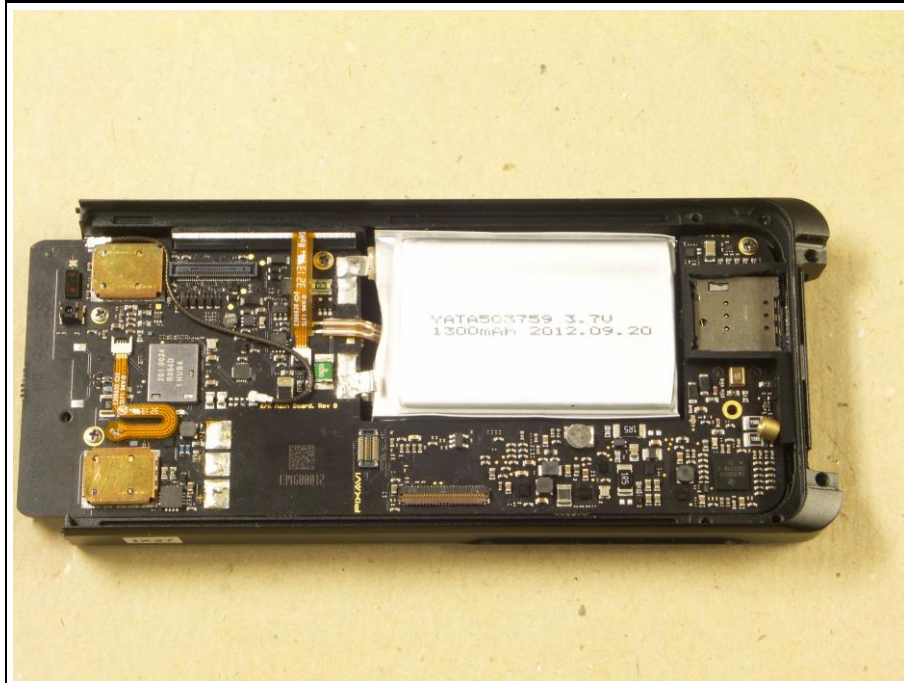
RADIATED SAMPLE



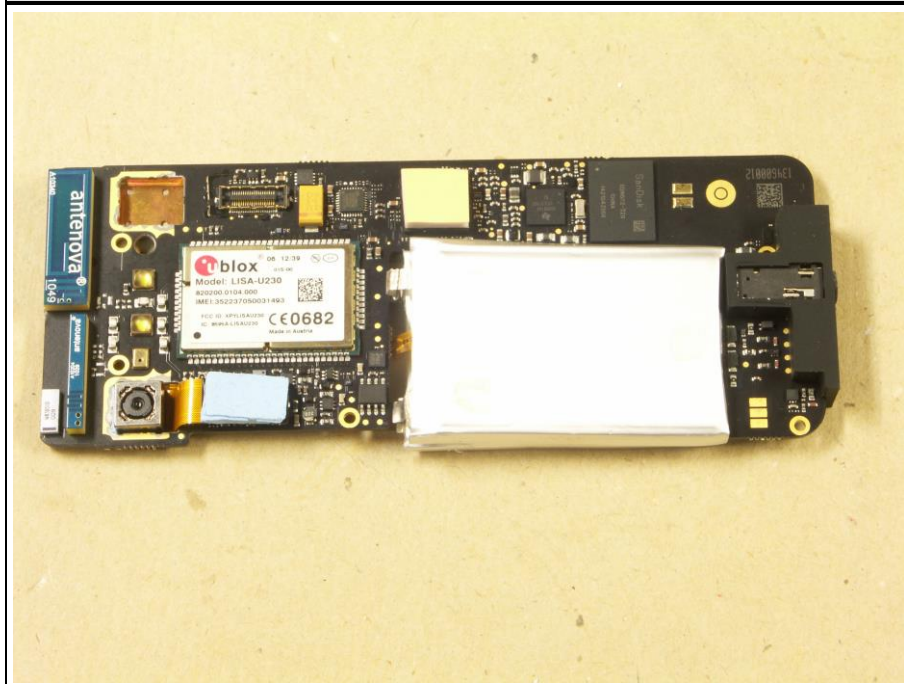
1.3 Photos – Equipment internal



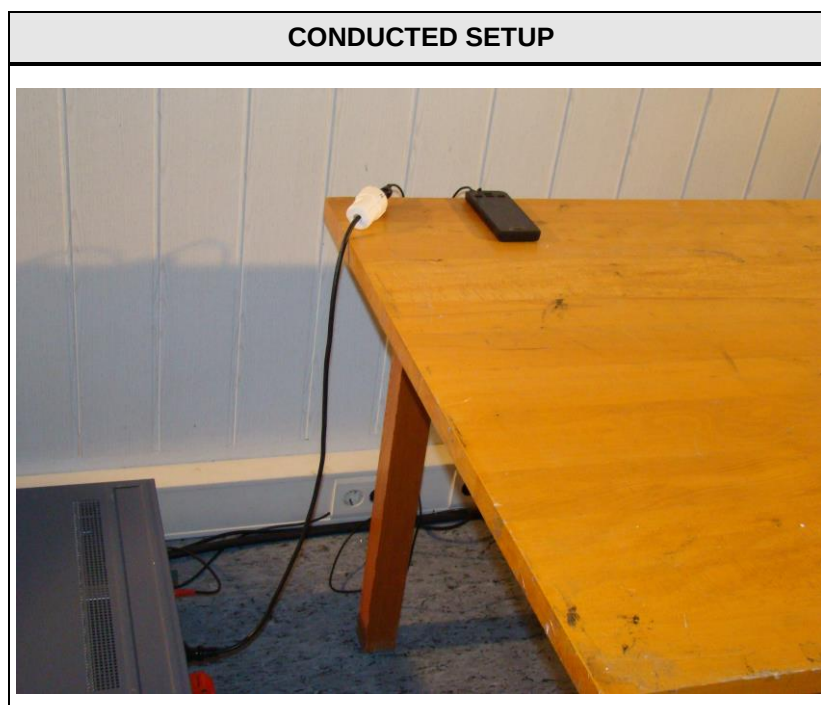
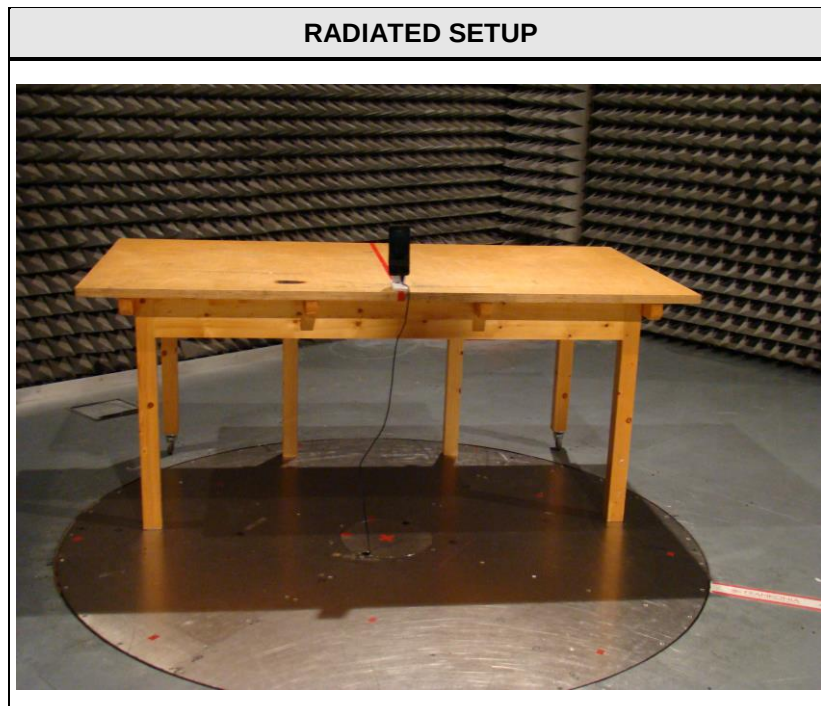
PCB



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
*Note: Use the following abbreviations: AE : Auxiliary/Associated Equipment, or SIM : Simulator (Not Subjected to Test) CABL : Connecting cables				

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

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

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

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

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

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

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

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

Radiated spurious emissions					
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

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 dBμV. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

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

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

Net:

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

Limit:

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

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

Margin:

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

Example only:

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

2 Result Summary

FCC 47 CFR Part 15C, IC RSS-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	
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – Occupied Bandwidth

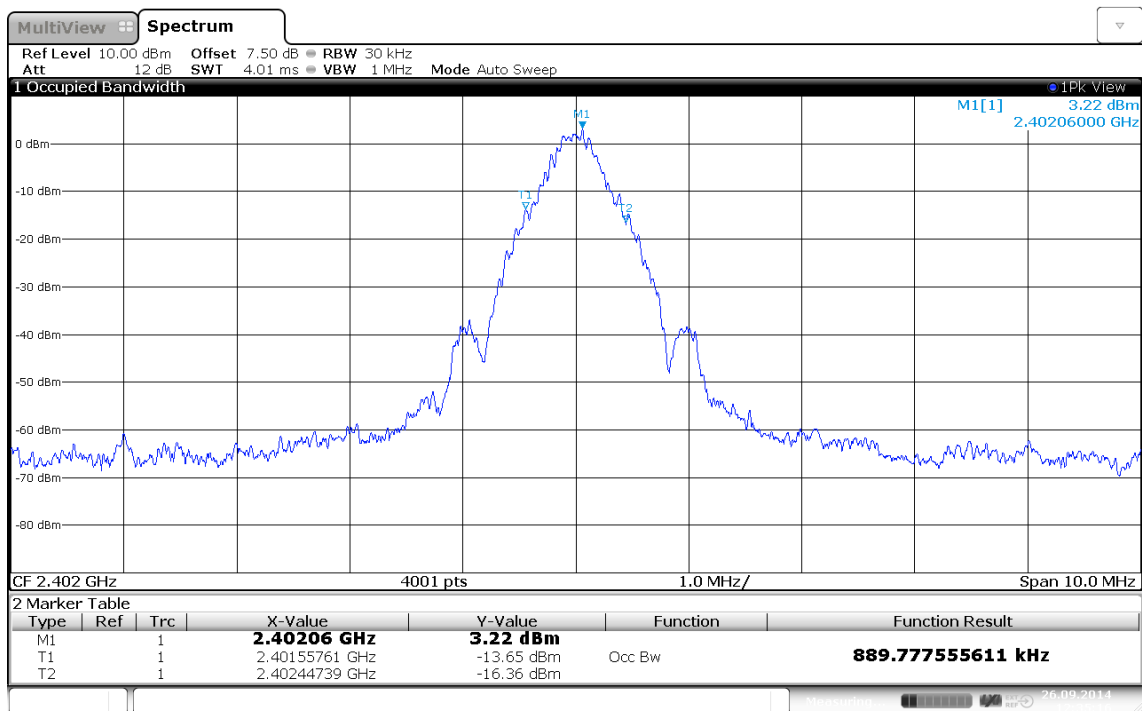
Occupied Bandwidth acc. IC RSS-Gen			Verdict: PASS
Test according to measurement reference	Reference Method		
	RSS-Gen 4.6.1		
Test frequency range	Tested frequencies		
	F _{LOW} / F _{MID} / F _{HIGH}		
Limits			
None (Informational only)			
Test setup			
Spectrum Analyzer EUT			
Test procedure			
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Resolution bandwidth set to 1 % of span 4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function			
Test results			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
F _{LOW}	2402	DH5-Sngl	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_{Low}

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

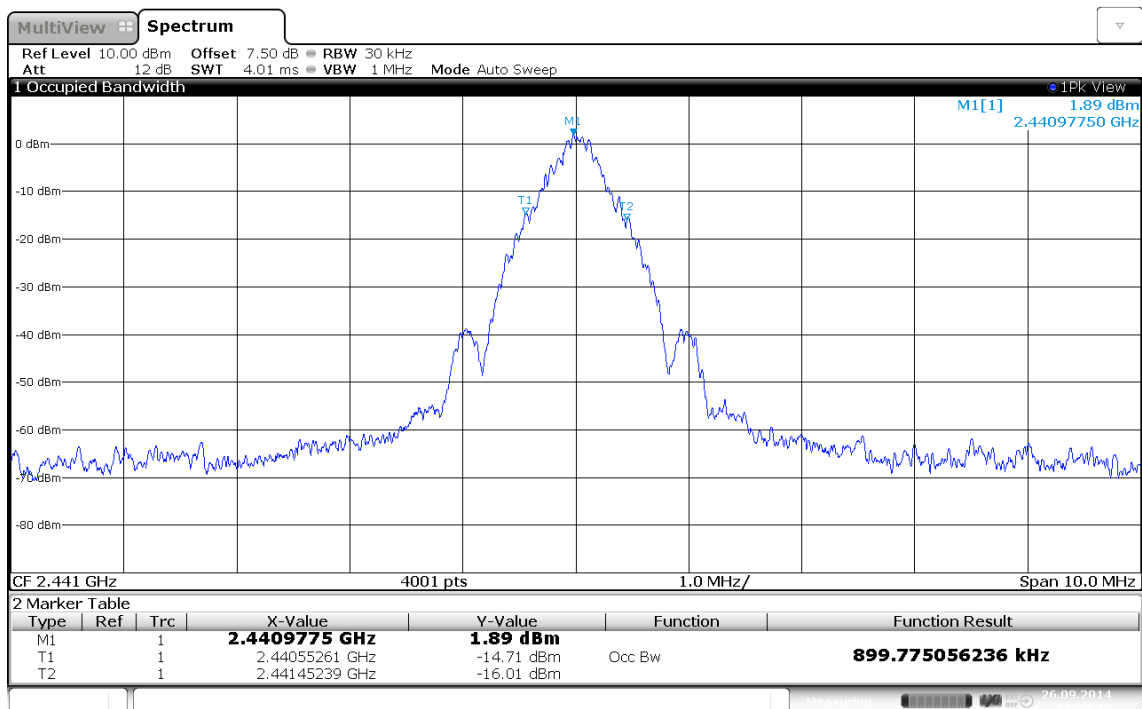


Occupied Bandwidth – DH5-Sngl F_{MID}

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

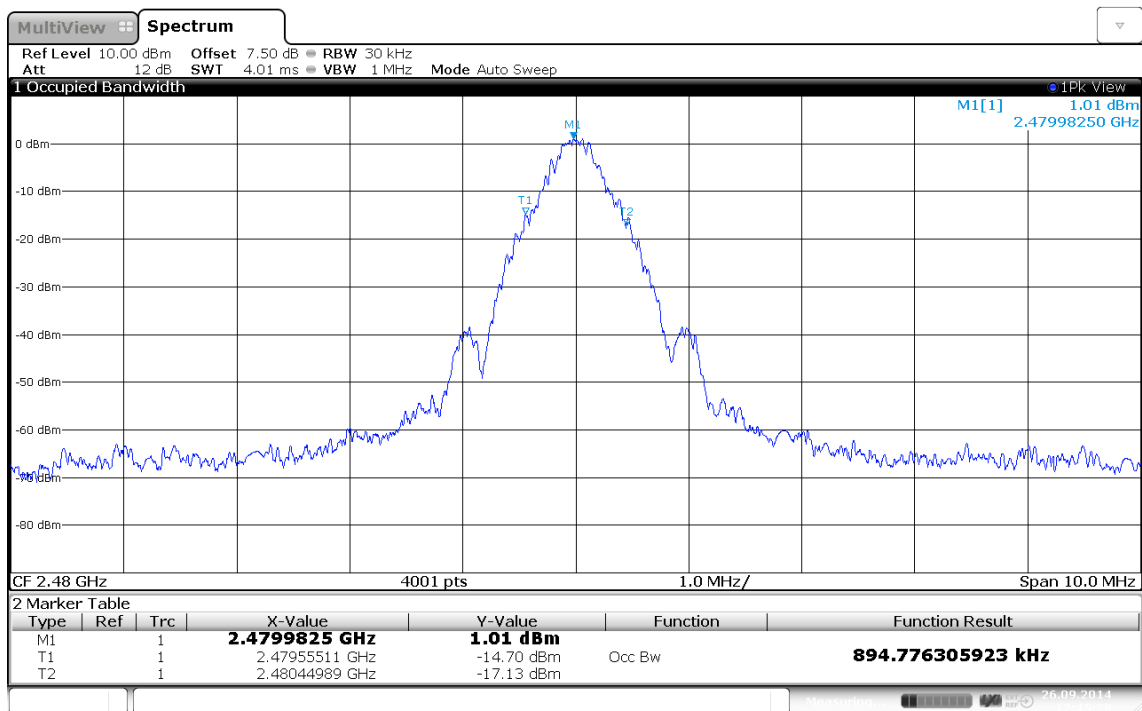


Occupied Bandwidth – DH5-Sngl F_{HIGH}

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

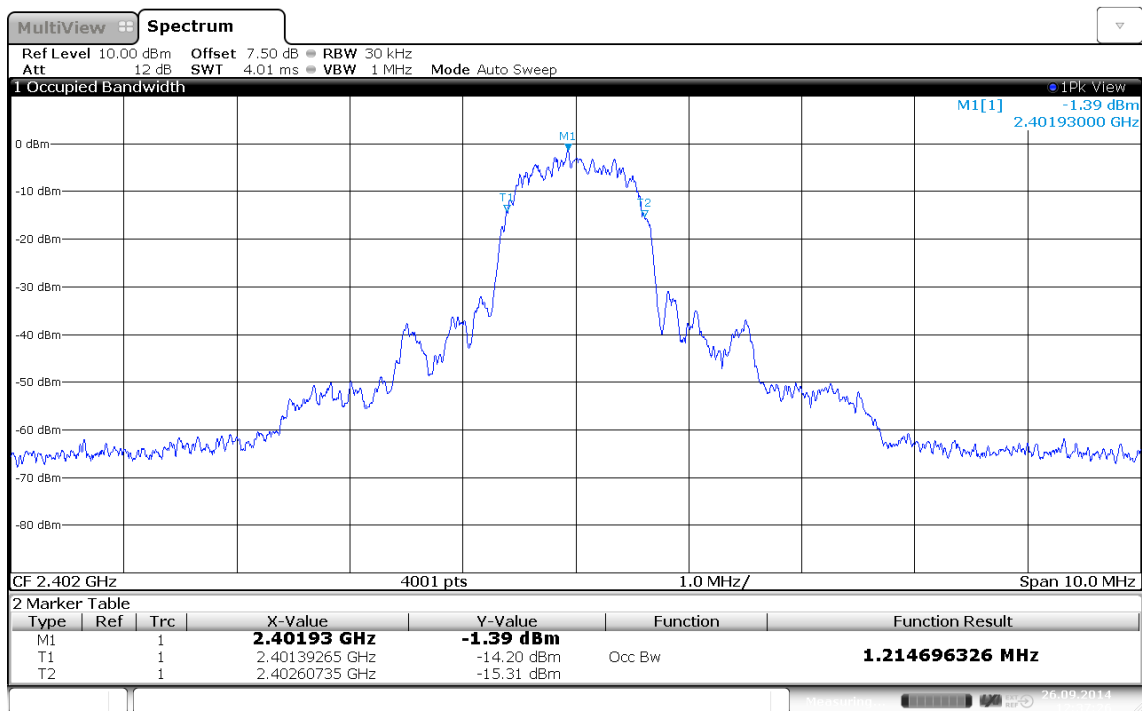


Occupied Bandwidth – 2-DH5-Sngl F_{LOW}

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

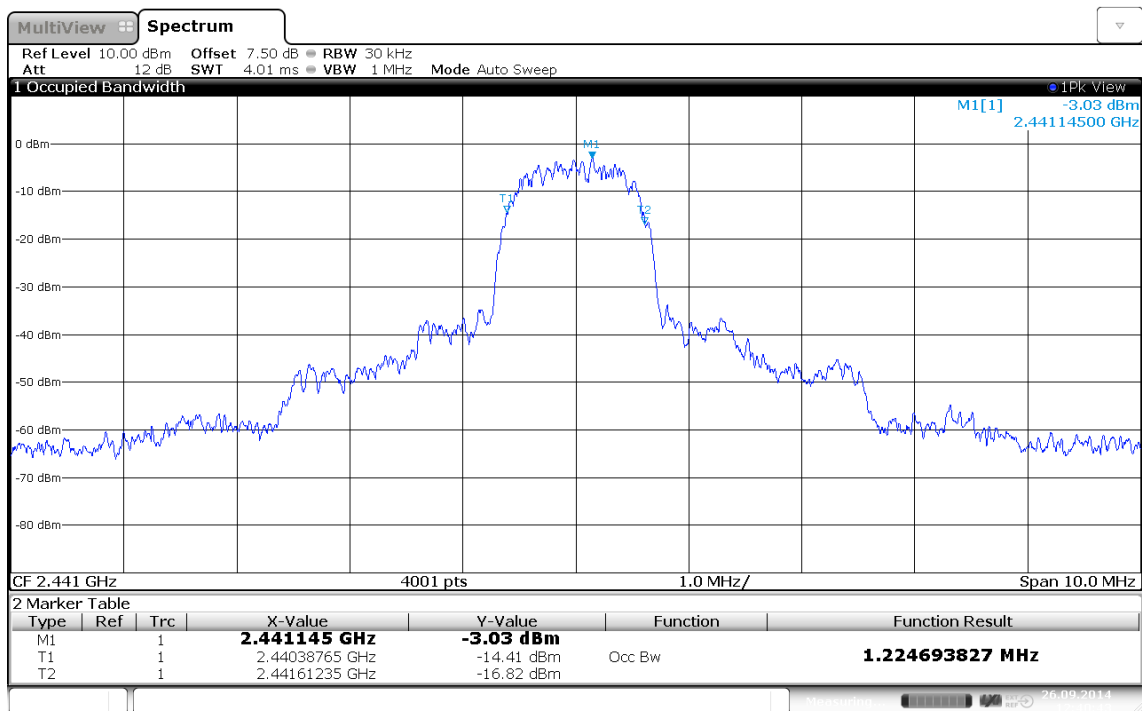


Occupied Bandwidth – 2-DH5-Sngl F_{MID}

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

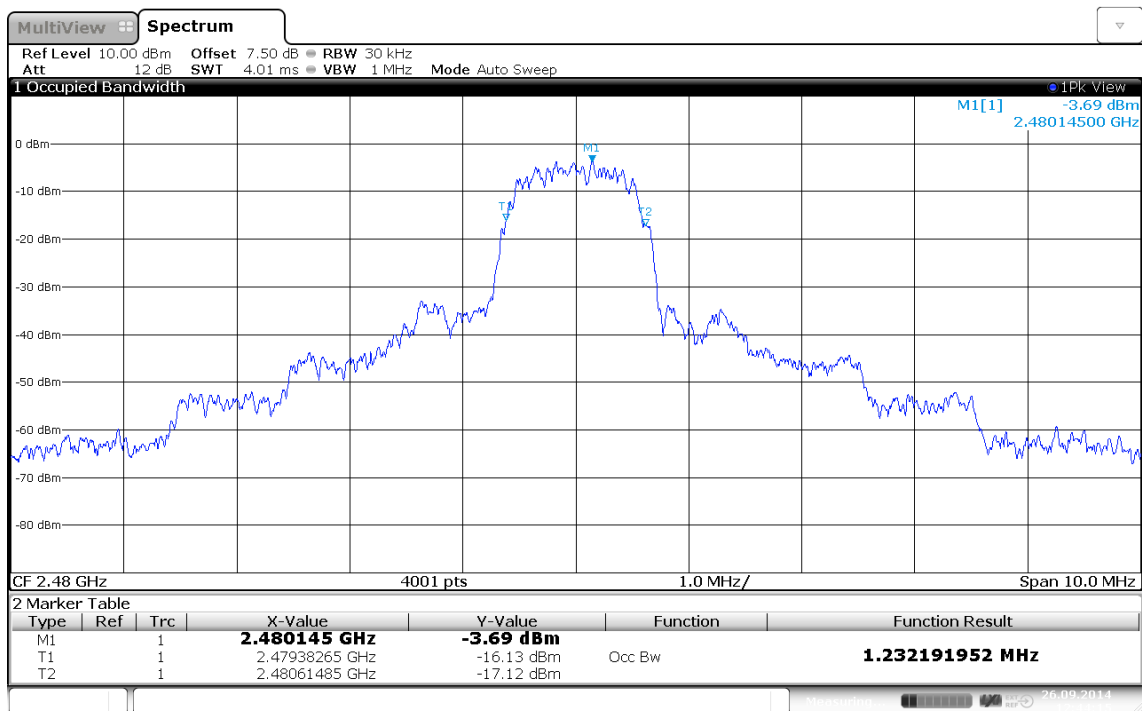


Occupied Bandwidth – 2-DH5-Sngl F_{HIGH}

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

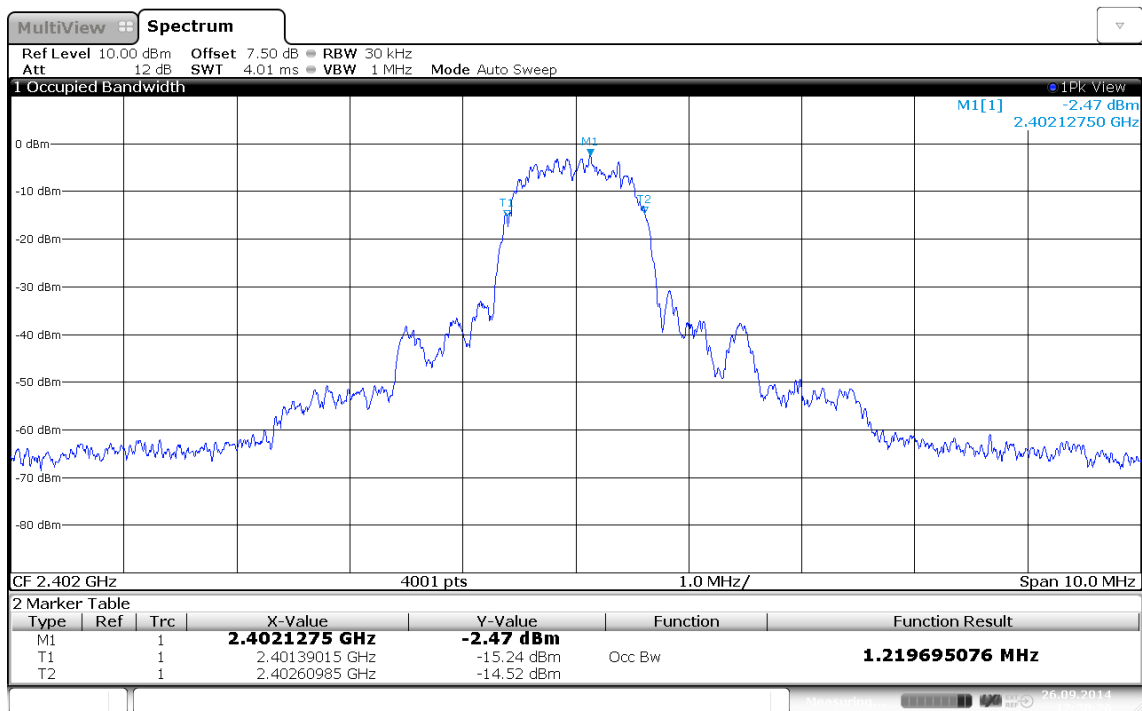


Occupied Bandwidth – 3-DH5-Sngl F_{LOW}

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

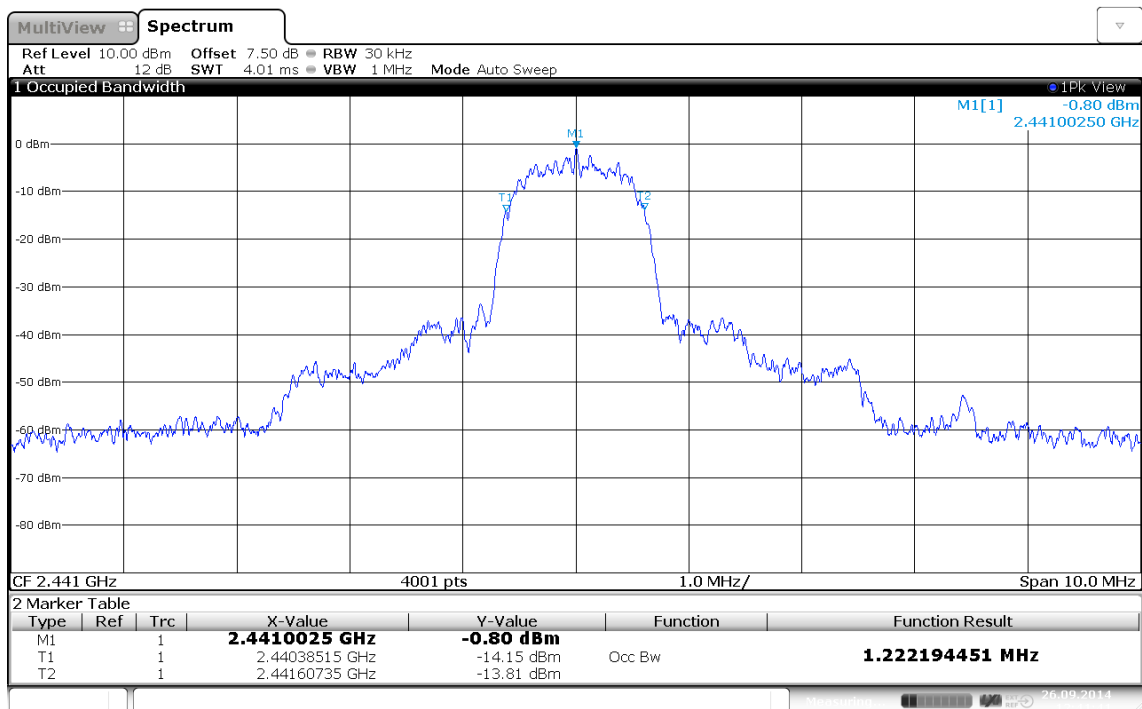


Occupied Bandwidth – 3-DH5-Sngl F_{MID}

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



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

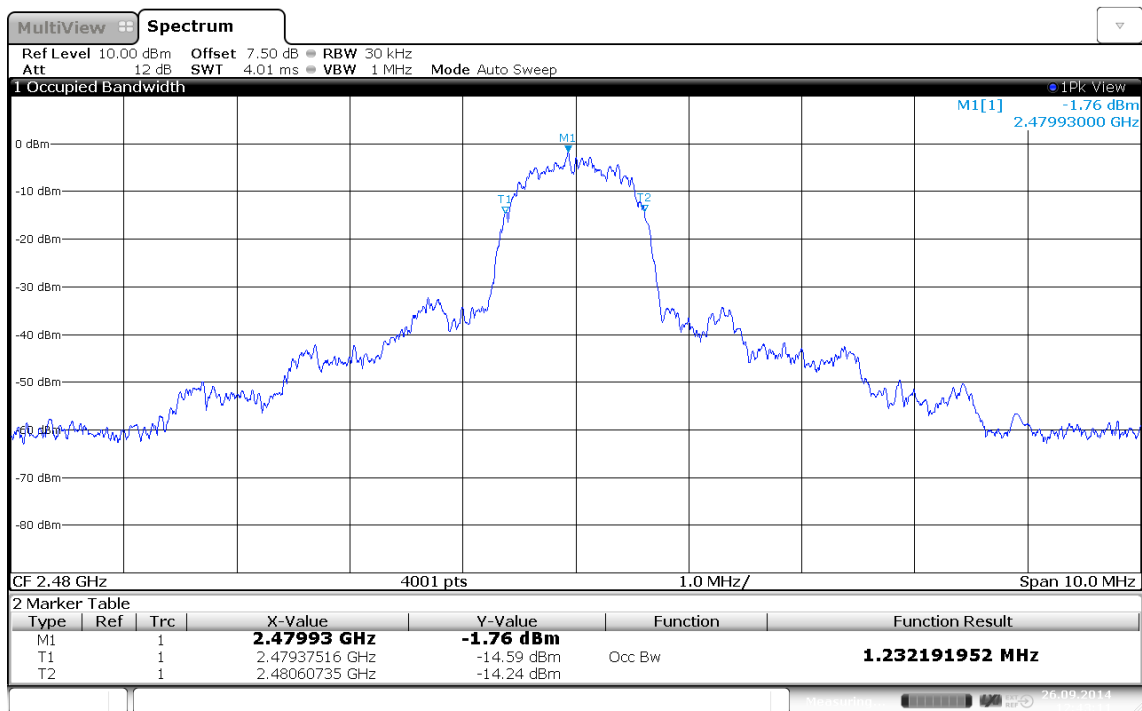
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

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

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



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					
Spectrum Analyzer EUT					
Test procedure					
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -20 dB to the left of the peak 6. Marker on envelope of spectrum is set to level of -20 dB to the right of the peak 7. 20dB Bandwidth is determined by marker frequency separation					
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:					

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

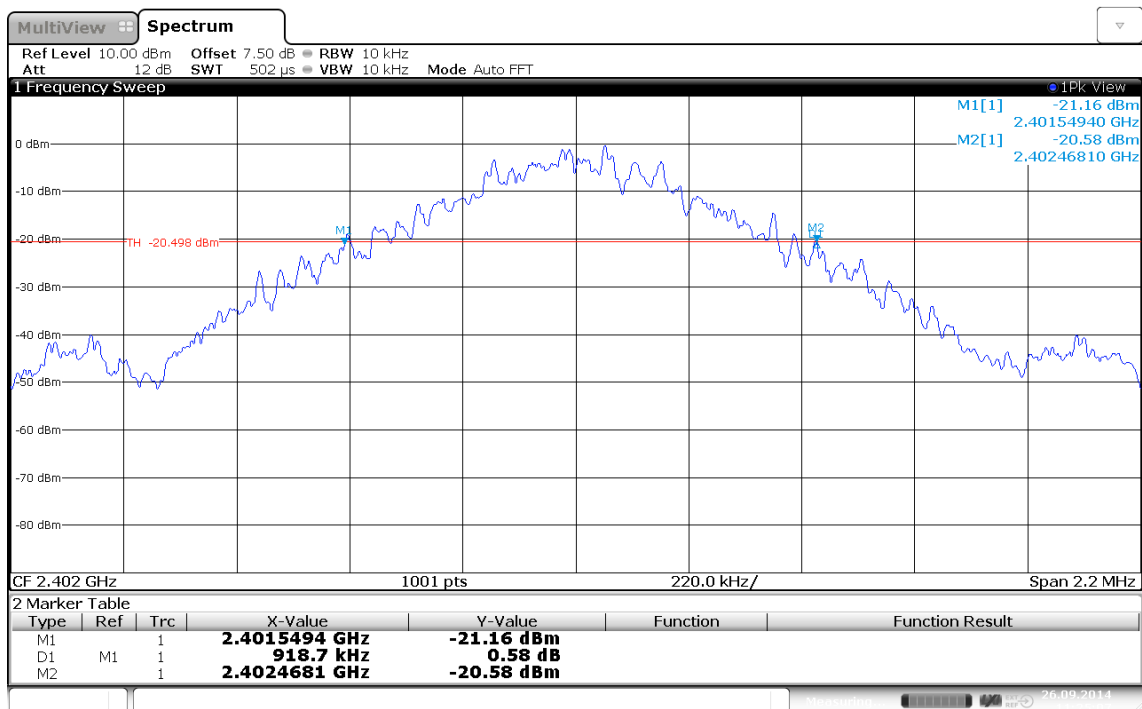
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

20 dB Bandwidth – DH5-Sngl F_{LOW}

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:



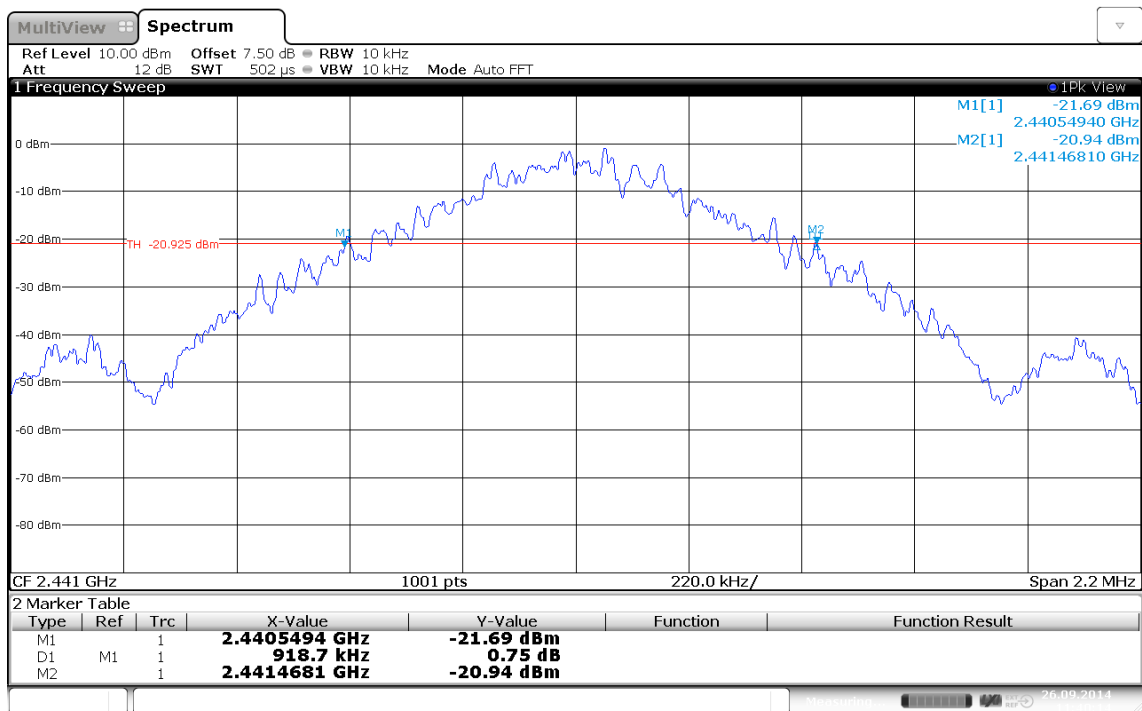
20 dB bandwidth: 918.7 KHz
 Date: 26.SEP.2014 11:25:08

20 dB Bandwidth – DH5-Sngl F_{MID}

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:



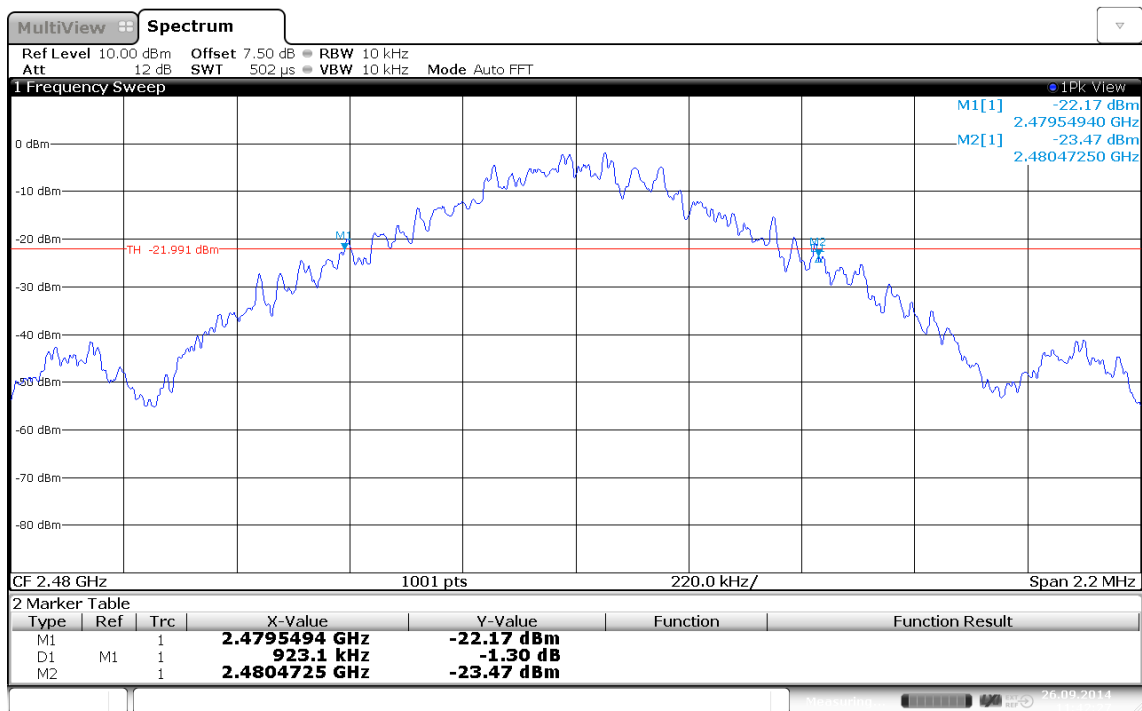
20 dB bandwidth: 918.7 KHz
 Date: 26.SEP.2014 11:40:14

20 dB Bandwidth – DH5-Sngl F_{HIGH}

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:



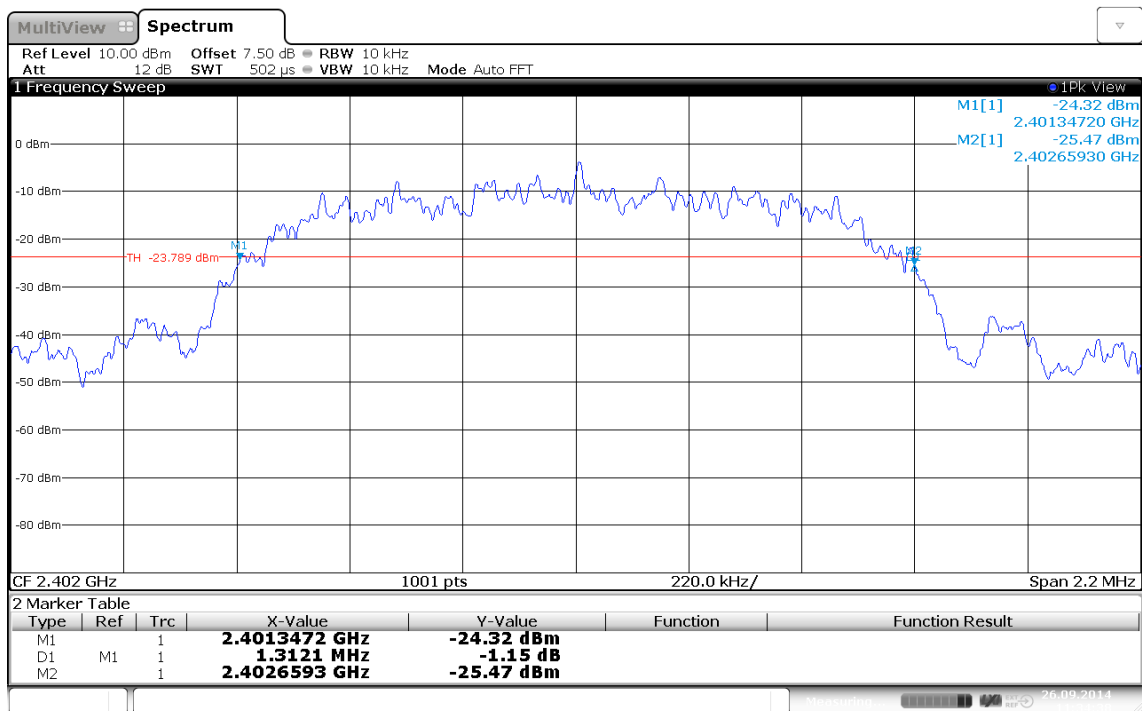
20 dB bandwidth: 923.1 KHz
 Date: 26.SEP.2014 11:42:27

20 dB Bandwidth – 2-DH5-Sngl F_{Low}

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

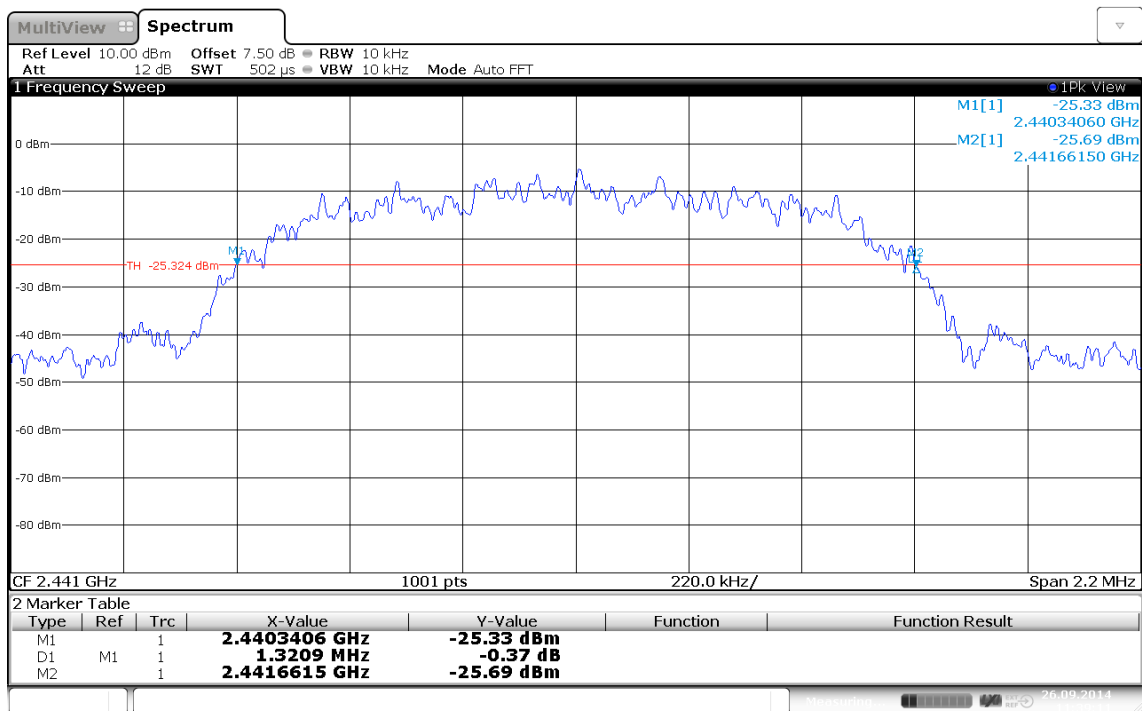
Date: 26.SEP.2014 11:34:38

20 dB Bandwidth – 2-DH5-Sngl F_{MID}

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

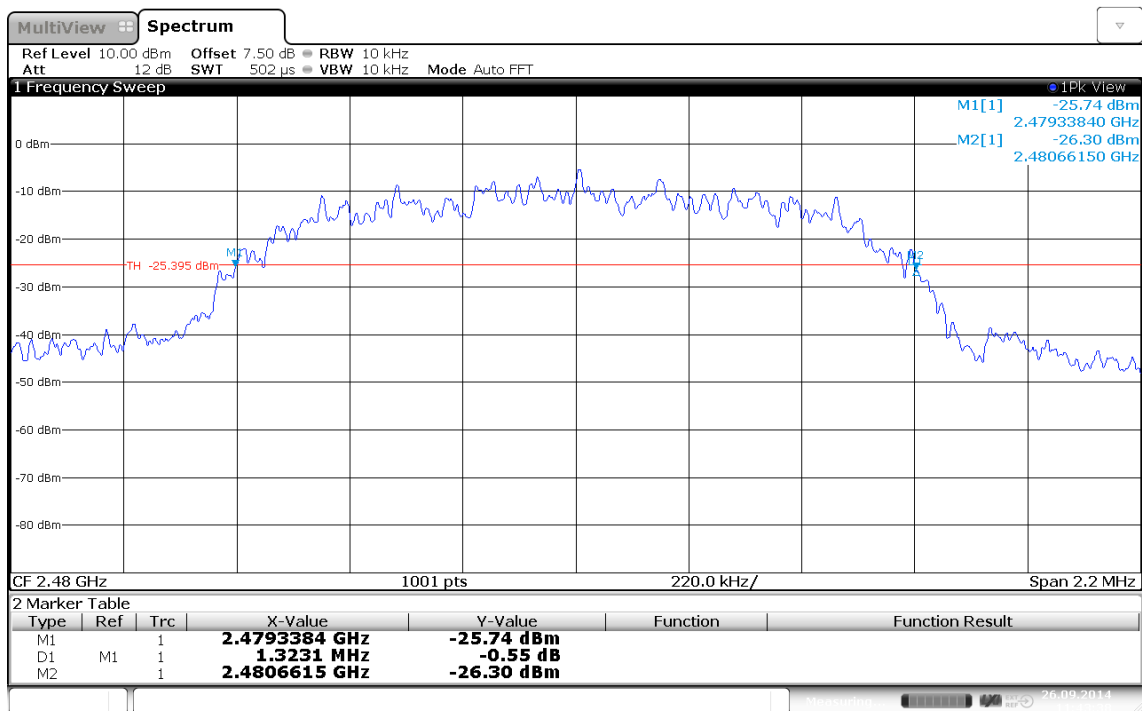
Date: 26.SEP.2014 11:39:11

20 dB Bandwidth – 2-DH5-Sngl F_{HIGH}

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

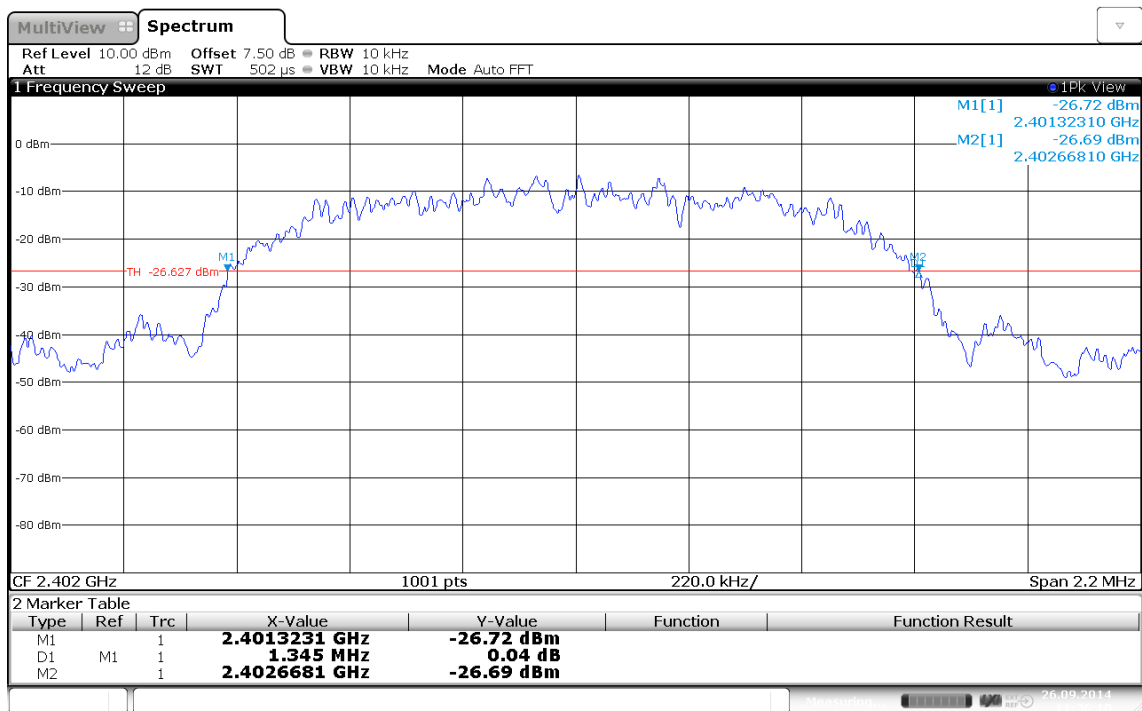
Date: 26.SEP.2014 11:43:37

20 dB Bandwidth – 3-DH5-Sngl F_{Low}

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:



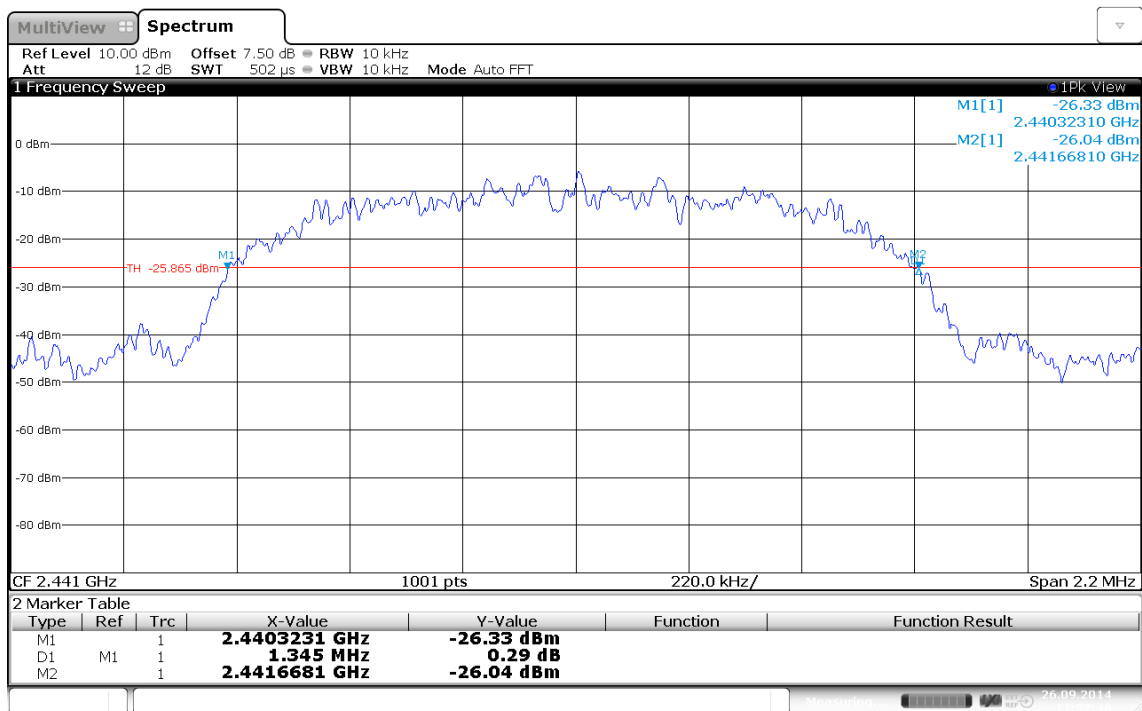
20 dB bandwidth: 1345 KHz
 Date: 26.SEP.2014 11:36:10

20 dB Bandwidth – 3-DH5-Sngl F_{MID}

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

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

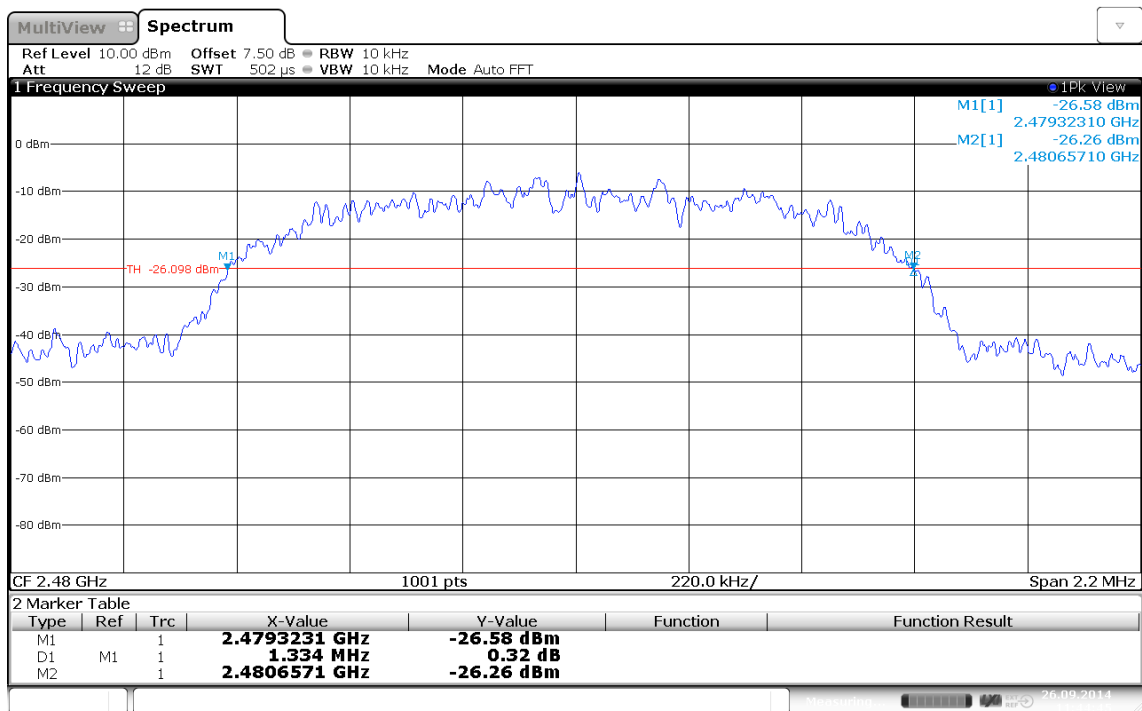
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

20 dB Bandwidth – 3-DH5-Sngl F_{HIGH}

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

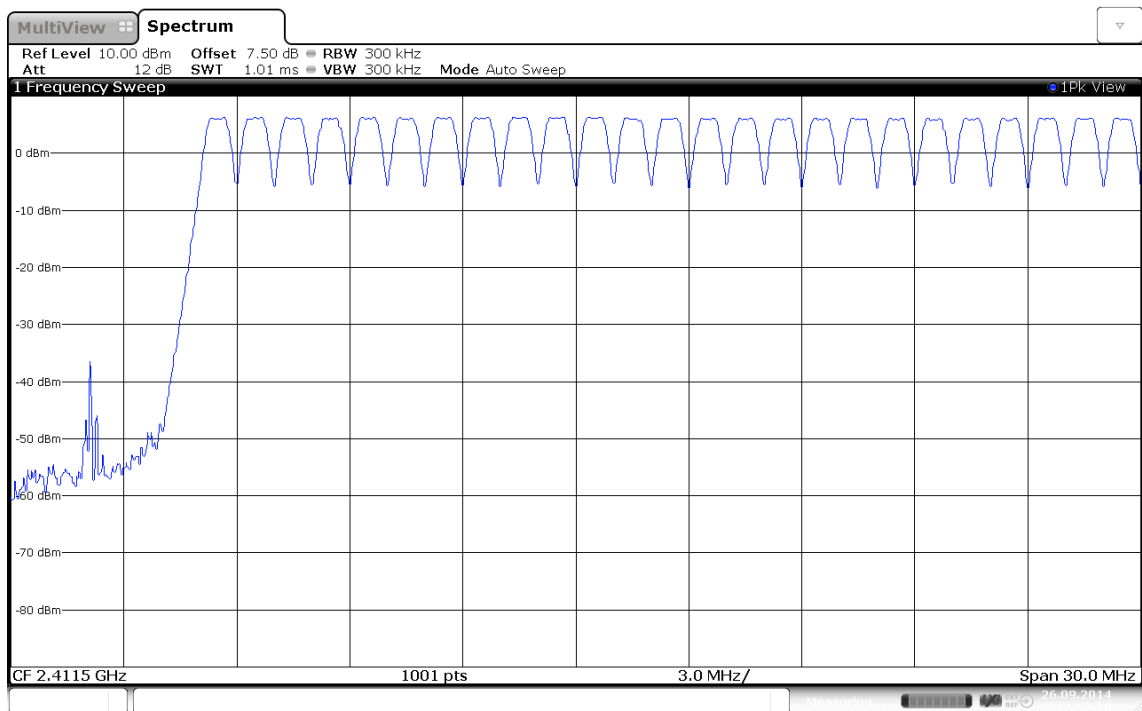
Number of hopping frequencies acc. FCC 15.247 / IC RSS-210		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC 15.247(a)(1)(iii) / IC RSS-210 A8.1	
Test according to measurement reference	Reference Method	
	FCC Public Notice DA 00-705	
Test frequency range	Tested frequencies	
	F _{LOW} - F _{HIGH}	
EUT test mode	DH5-Hop	
Limits		
Limit	Condition	
Number of hopping channels ≥ 15	Output power ≤ 125 mW / 21 dBm	
Number of hopping channels ≥ 75	125 mW / 21 dBm < Output power ≤ 1 W / 30 dBm	
Test setup		
Spectrum Analyzer EUT		
Test procedure		
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to measurement frequency range 3. Detector set to peak and max hold 4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra 5. The number of peaks is counted to determine number of hopping frequencies		
Test results		
Number of hopping frequencies	Limit	Result
79	≥ 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



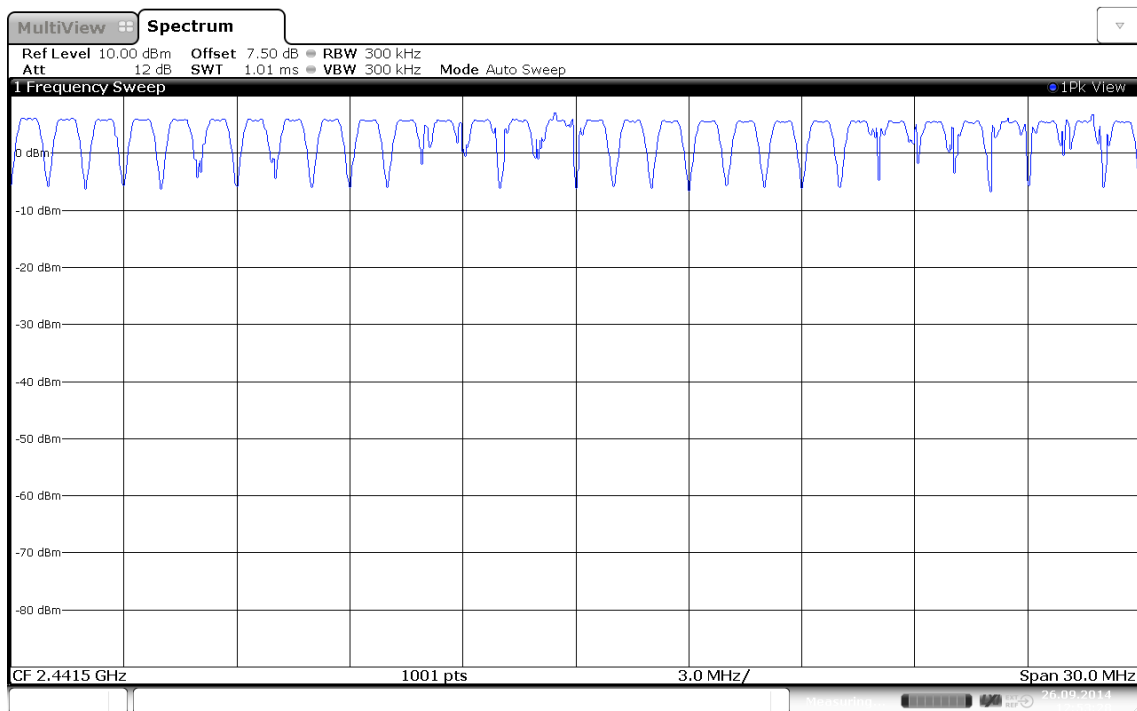
Number of hopping frequencies
 Date: 26.SEP.2014 12:52:18

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



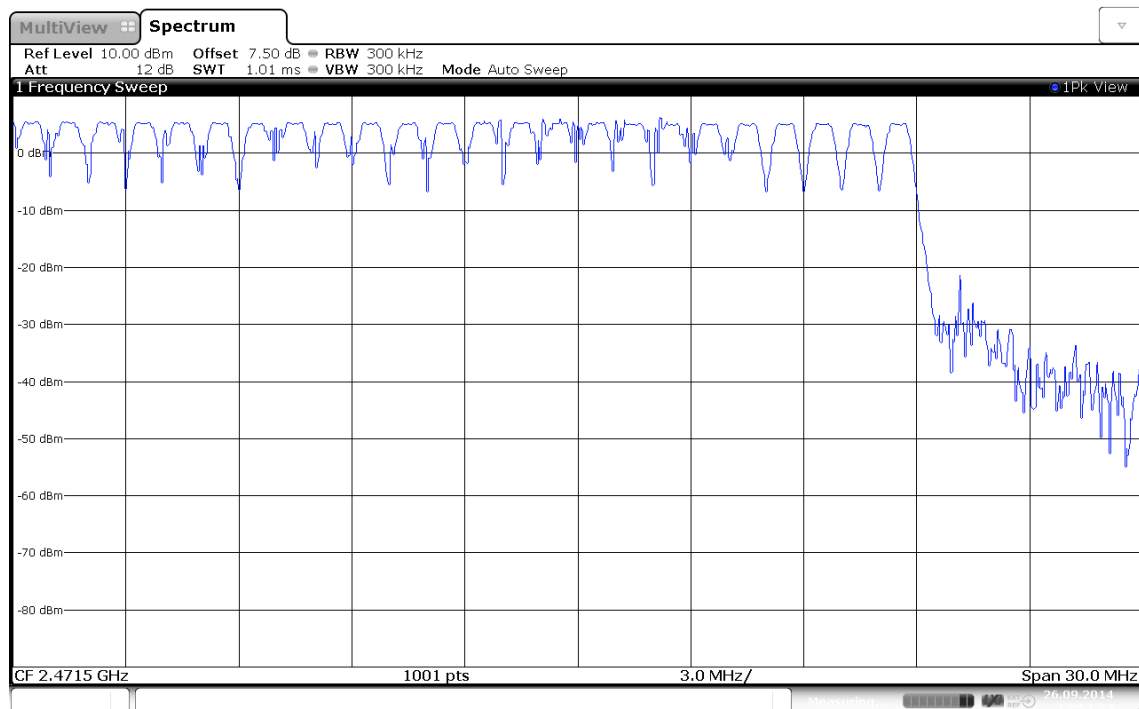
Number of hopping frequencies
 Date: 26.SEP.2014 12:53:28

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

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

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

3.4 Test Conditions and Results – Frequency hopping channel separation

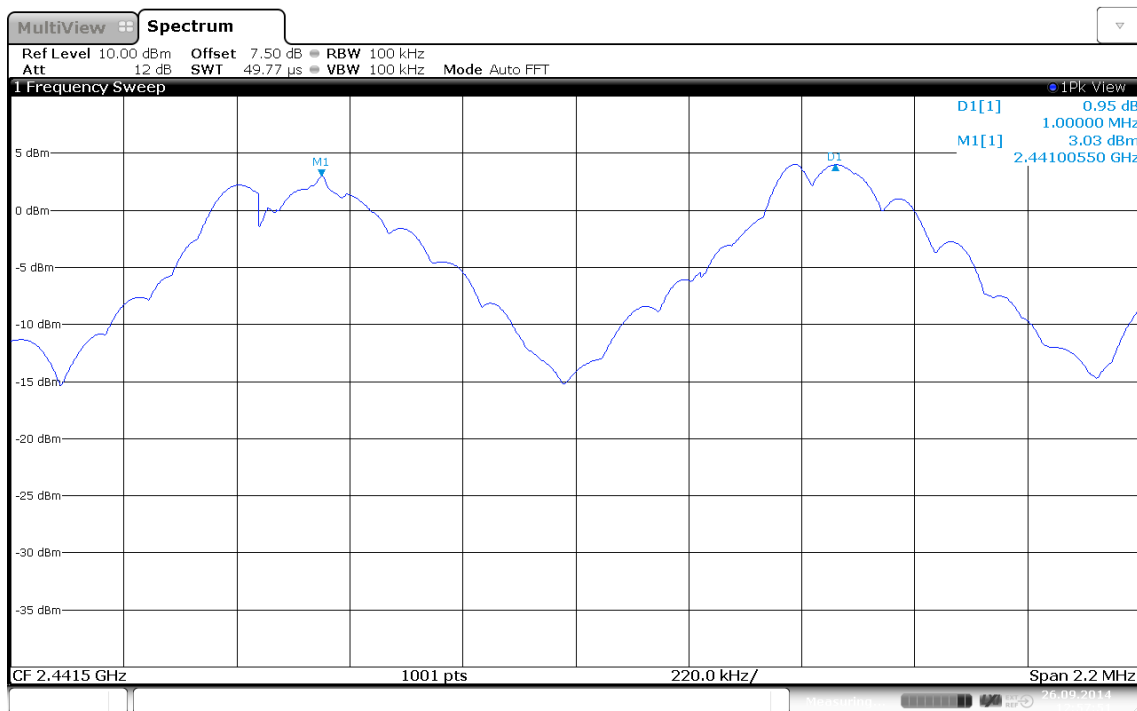
Frequency hopping channel separation acc. FCC 15.247 / IC RSS-210		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC 15.247(a)(1) / IC RSS-210 A8.1	
Test according to measurement reference	Reference Method	
	FCC Public Notice DA 00-705	
Test frequency range	Tested frequencies	
	2441 & 2442 MHz	
EUT test mode	DH5-Hop	
Limits		
Limit	Condition	
≥ 25 kHz or ⅔ of 20 dB bandwidth	Output power ≤ 125 mW / 21 dBm	
≥ 25 kHz or 20 dB bandwidth	125 mW / 21 dBm < Output power ≤ 1 W / 30 dBm	
Test setup		
Spectrum Analyzer EUT		
Test procedure		
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to measurement frequency range 3. Detector set to peak and max hold 4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra 5. The two adjacent channel peaks are marked 6. Channel separation is determined from frequency separation of markers		
Test results		
Channel separation [kHz]	Limit [kHz]	Result
1000	≥ ⅔ · 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)

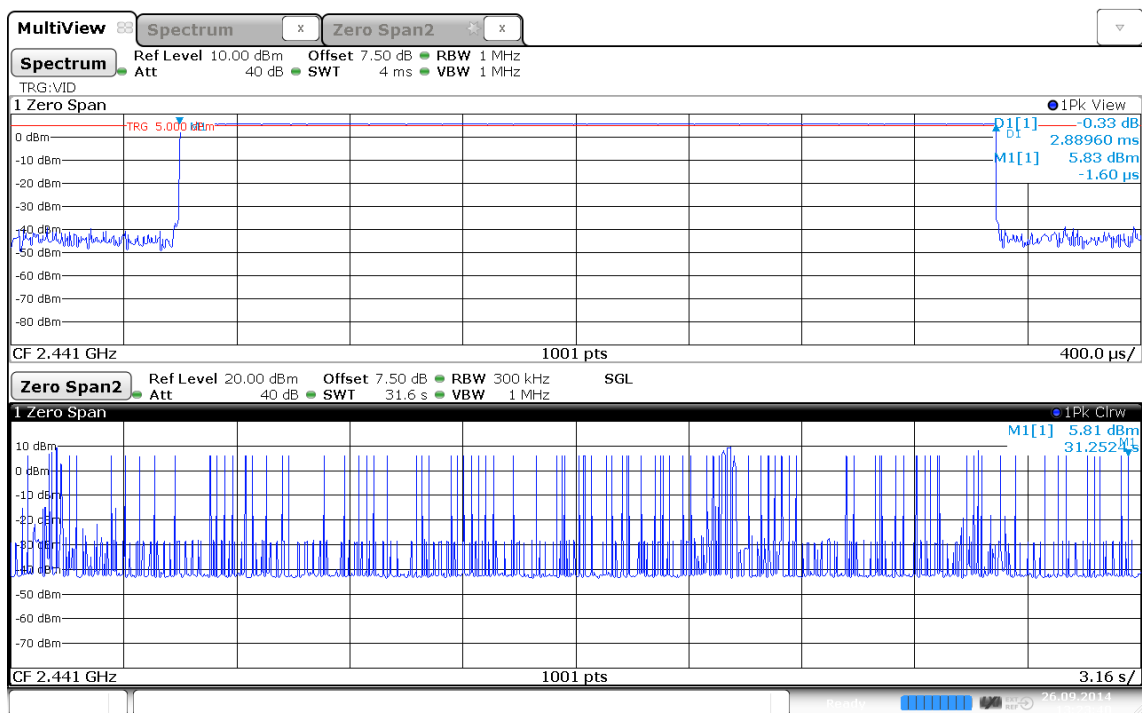
Time of occupancy (Dwell time) acc. FCC 15.247 / IC RSS-210				Verdict: PASS	
EUT requirement rule parts and clause	Reference				
	FCC 15.247(a)(1)(iii) / IC RSS-210 A8.1				
Test according to measurement reference	Reference Method				
	FCC Public Notice DA 00-705				
Test frequency range	Tested frequencies				
	2441 MHz				
EUT test mode	DH5-Hop				
Limits					
Limit					
Time of occupancy ≤ 0.4 s within 0.4 s · Number of hopping channels					
Test setup					
Spectrum Analyzer EUT					
Test procedure					
1. EUT set to test mode (Communication tester is used if needed) 2. Center frequency set to test channel center frequency 3. Span set to zero span and detector to peak and max hold 4. Resolution bandwidth is set to 100kHz and sweep time to observation period 5. Time of occupancy determined from number of peaks multiplied by single hop dwell time					
Test results					
Observation period [s]	No. of hops	Dwell time/hop [ms]	Time of occupancy [s]	Limit [s]	Result
31.6	96	2.89	0.277	≤ 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

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

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

3.6 Test Conditions and Results – Maximum peak conducted power

Maximum peak conducted power acc. FCC 15.247 / IC RSS-210		Verdict: PASS
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	
Limits		
Limit	Condition	
1 W (30 dBm)	Number of hopping channels ≥ 75	
0.125 W (21 dBm)	$75 > \text{Number of hopping channels} \geq 15$	
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.		
Test setup		
Spectrum Analyzer EUT		
Test procedure		
1. EUT set to test mode (Communication tester is used if needed) 2. Center frequency set to test channel center frequency 3. Span set to twice the 20 dB bandwidth and detector to peak and max hold 4. Resolution bandwidth is set to 3 MHz 5. Peak conducted power is determined from peak of spectrum envelope		

Test results							
Channel	Frequency [MHz]	Voltage	Mode	Peak power [dbm]	Limit [dBm]	Margin [dB]	Result
F _{LOW}	2402	3.7 VDC	DH5-Sngl	6.2	30	-23.80	PASS
F _{MID}	2441	3.7 VDC	DH5-Sngl	5.8	30	-24.20	PASS
F _{HIGH}	2480	3.7 VDC	DH5-Sngl	5.2	30	-24.80	PASS
F _{LOW}	2402	3.7 VDC	2DH5-Sngl	6.5	30	-23.50	PASS
F _{MID}	2441	3.7 VDC	2DH5-Sngl	5.8	30	-24.20	PASS
F _{HIGH}	2480	3.7 VDC	2DH5-Sngl	5.2	30	-24.80	PASS
F _{LOW}	2402	3.7 VDC	3DH5-Sngl	6.9	30	-23.10	PASS
F _{MID}	2441	3.7 VDC	3DH5-Sngl	6.3	30	-23.70	PASS
F _{HIGH}	2480	3.7 VDC	3DH5-Sngl	5.7	30	-24.30	PASS
Comments:							

3.7 Test Conditions and Results – AC power line conducted emissions

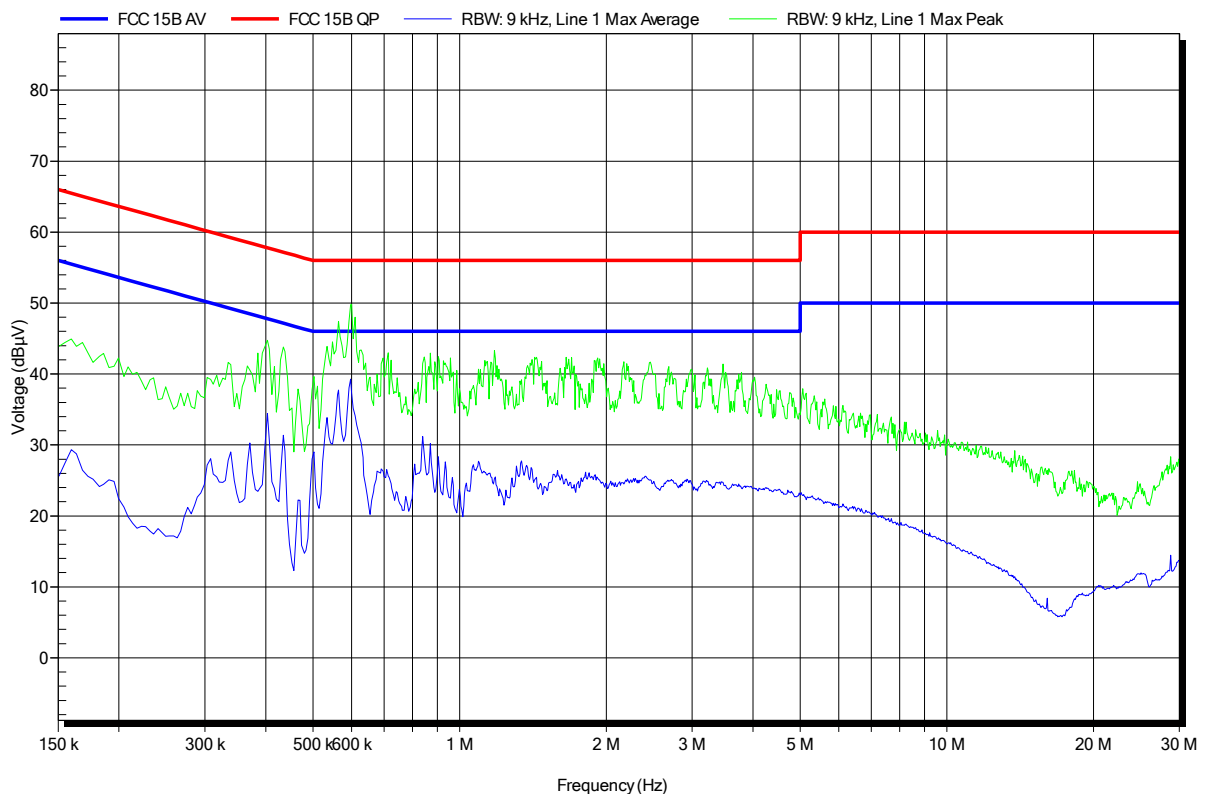
Power line conducted emissions acc. FCC 47 CFR 15.207 / IC RSS-Gen				Verdict: PASS	
Test according referenced standards		Reference Method			
		ANSI C63.4			
Fully configured sample scanned over the following frequency range		Frequency range			
		0.15 MHz to 30 MHz			
Points of Application		Application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

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:

Index 5

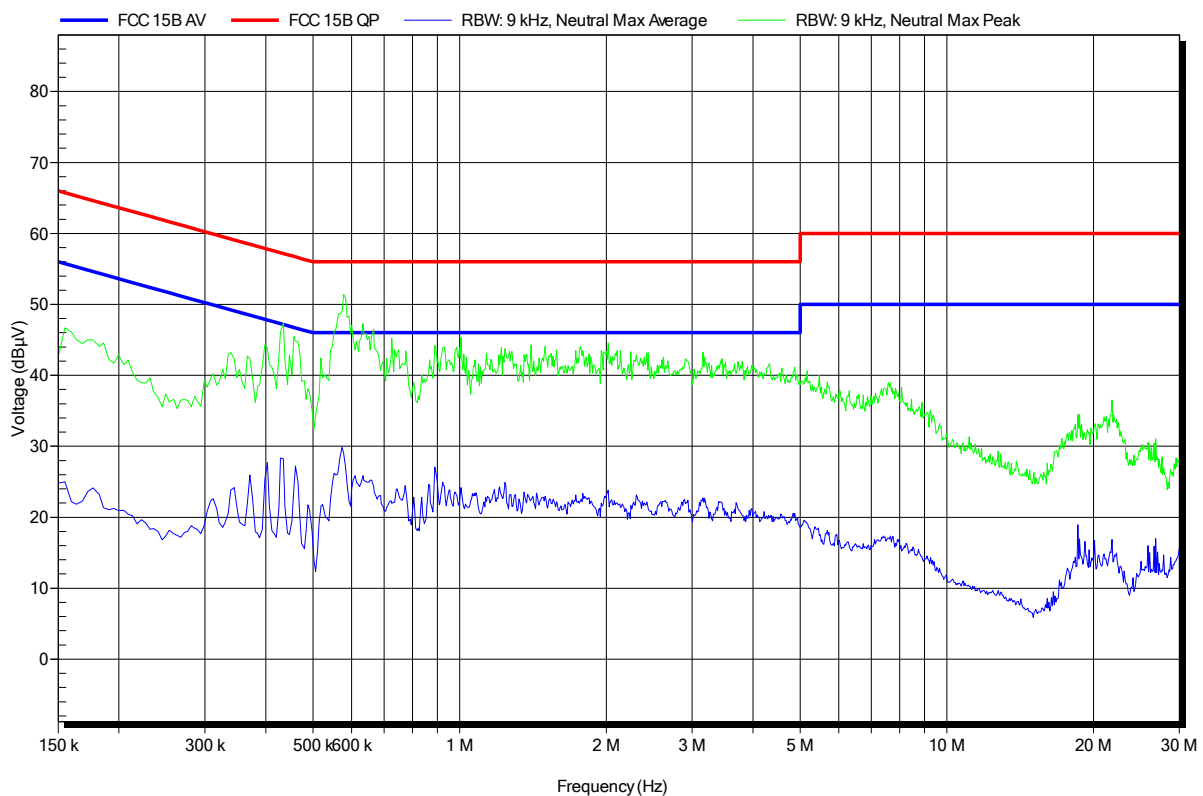


EMI voltage test in the ac-mains according to FCC part 15 b

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:

Index 11



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			
≤ -20 dB/100 kHz			Peak power measurement detector = Peak			
≤ -30 dB/100 kHz			Peak power measurement detector = RMS			
Test setup						
Spectrum Analyzer EUT						
Test procedure						
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference						
Test results						
Channel	Frequency [MHz]	Mode	Level [dBc]	Limit [dBc]	Margin [dB]	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

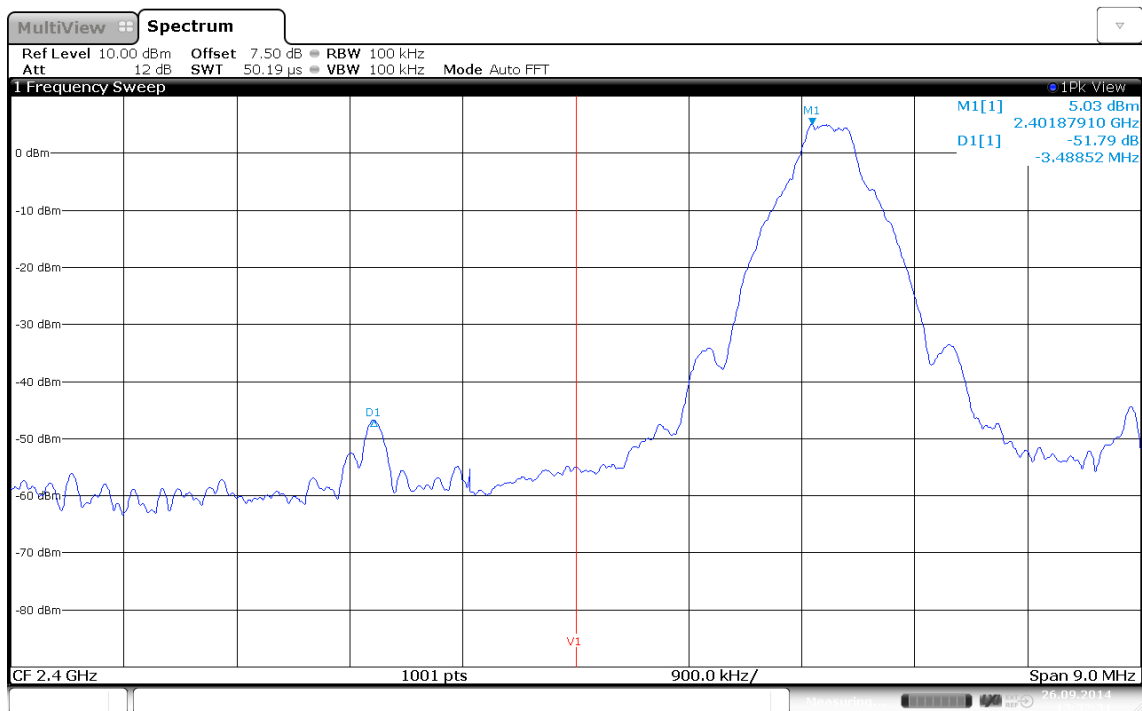
F _{LOW}	2402	3DH5-Sngl	-45.9	-20	-25.90	PASS
F _{HIGH}	2480	3DH5-Sngl	-47.9	-20	-27.90	PASS
F _{LOW}	2402	3DH5-Hop	-47.5	-20	-27.50	PASS
F _{HIGH}	2480	3DH5-Hop	-48.4	-20	-28.40	PASS
Comments:						

Band-edge compliance – DH5-Sngl F_{Low}

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



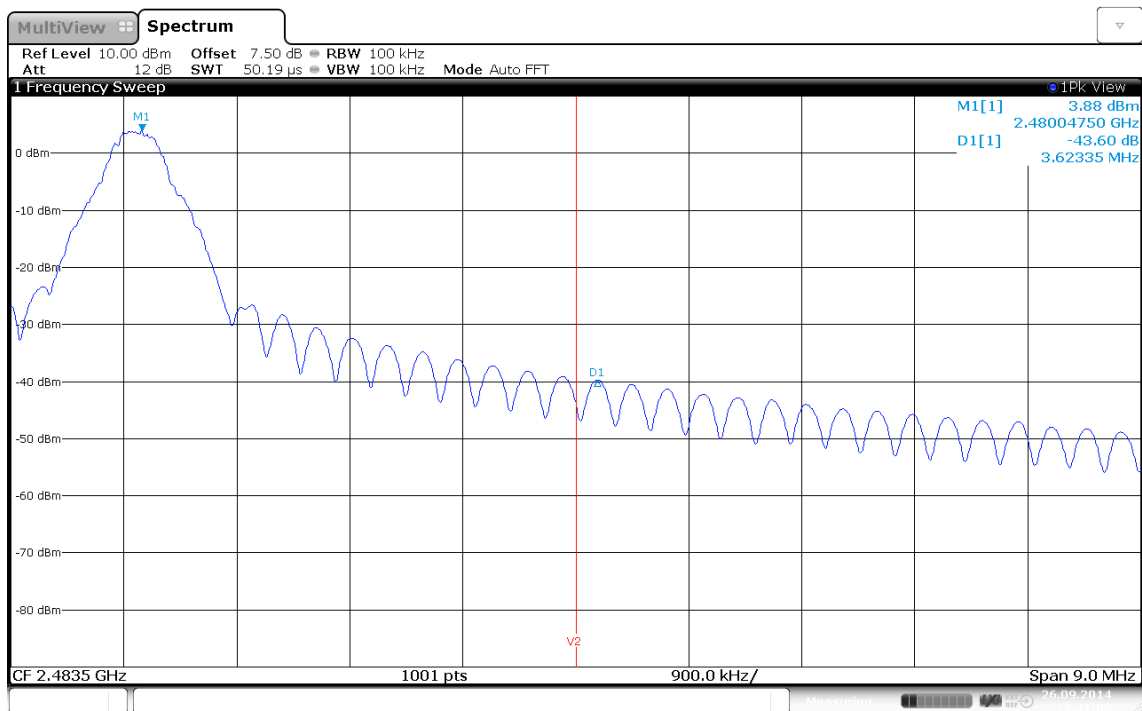
Limit: Marker Delta value >20 dB; Result: PASS
Date: 26.SEP.2014 13:32:31

Band-edge compliance – DH5-Sngl F_{HIGH}

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



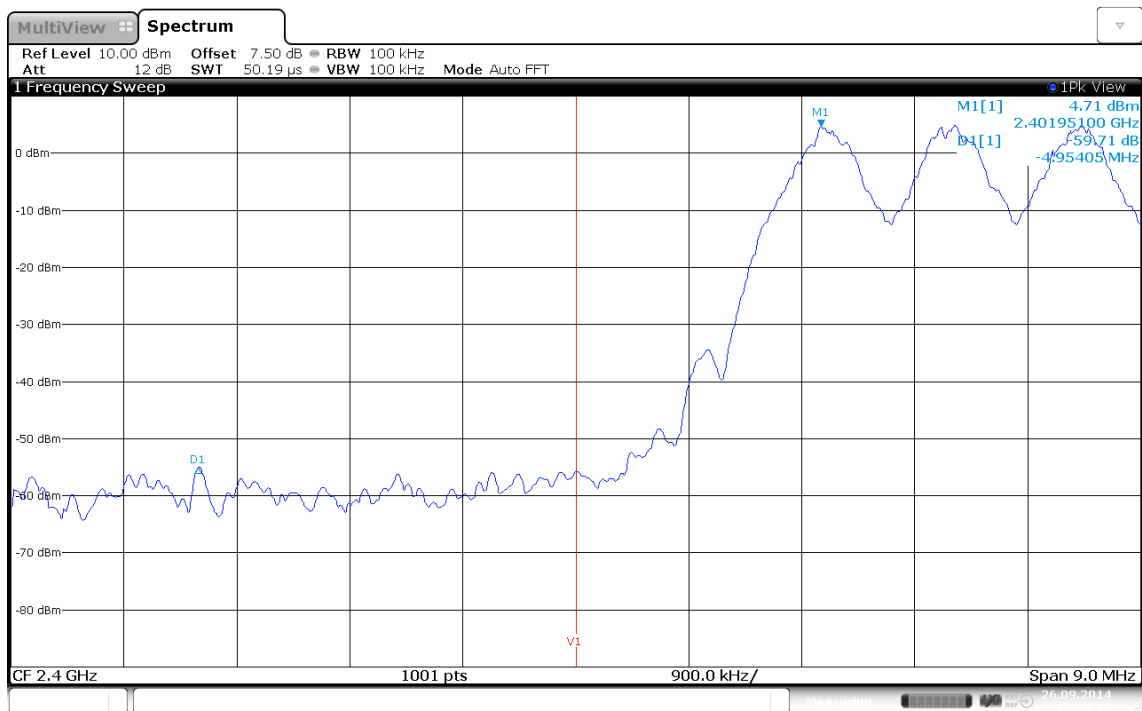
Limit: Marker Delta value >20 dB; Result: PASS
Date: 26.SEP.2014 13:41:09

Band-edge compliance – DH5-Hop F_{Low}

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



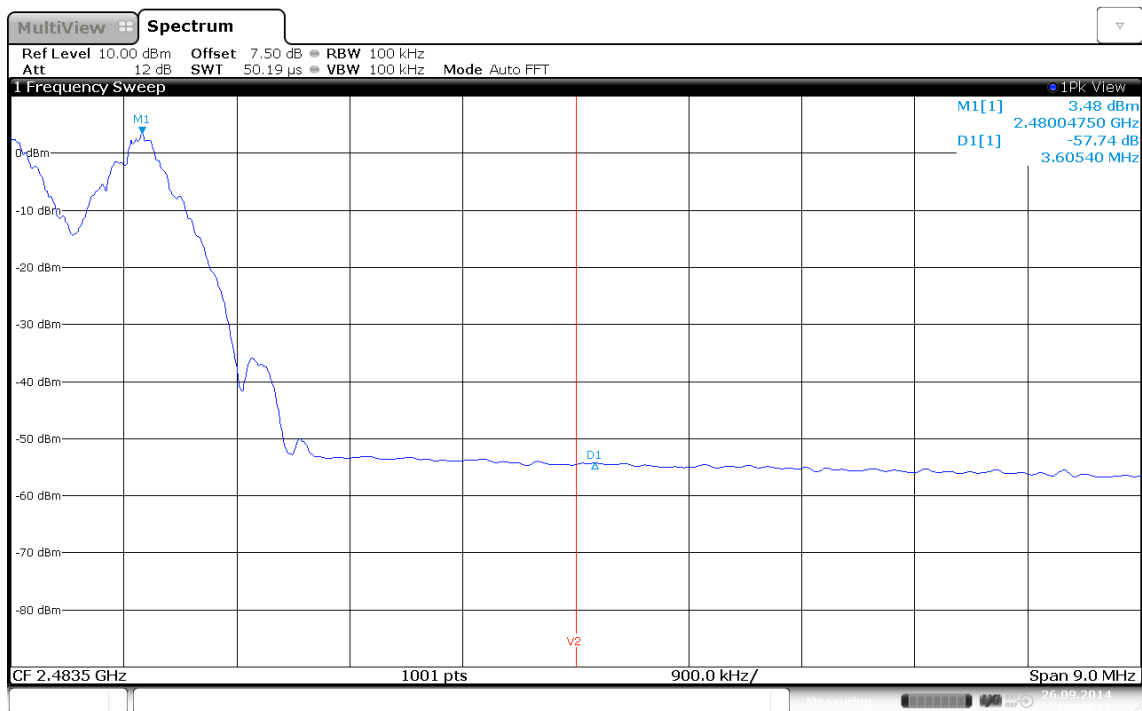
Limit: Marker Delta value >20 dB; Result: PASS
Date: 26.SEP.2014 13:58:13

Band-edge compliance – DH5-Hop F_{HIGH}

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

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

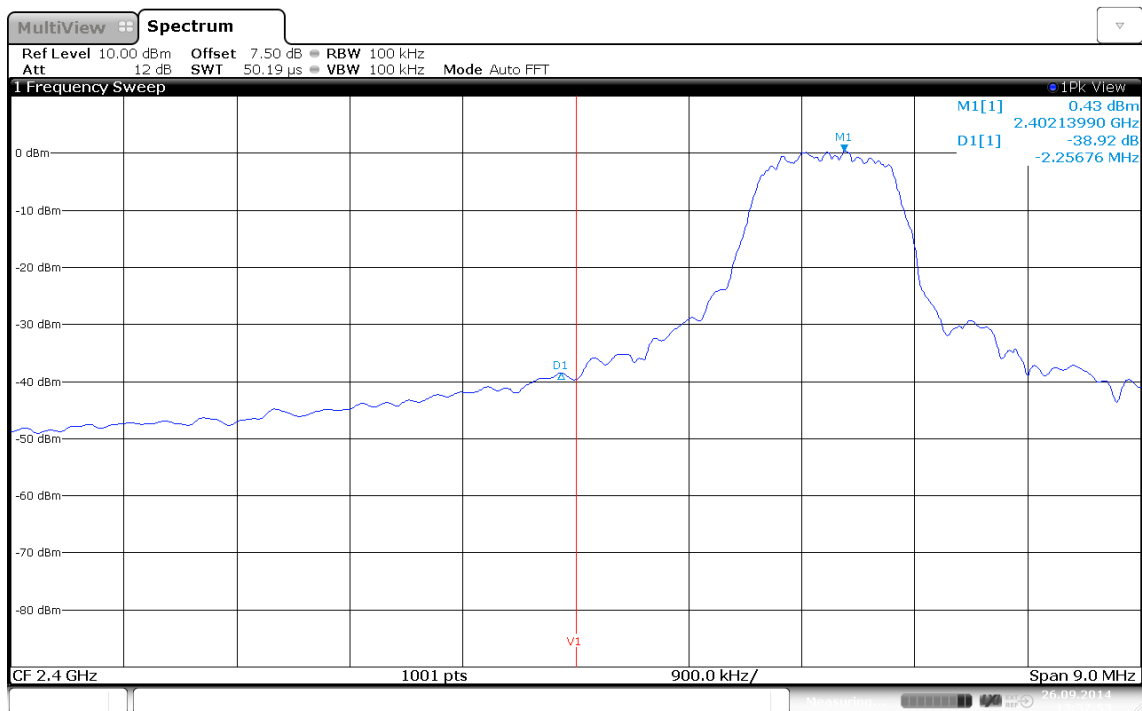
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – 2-DH5-Sngl F_{LOW}

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



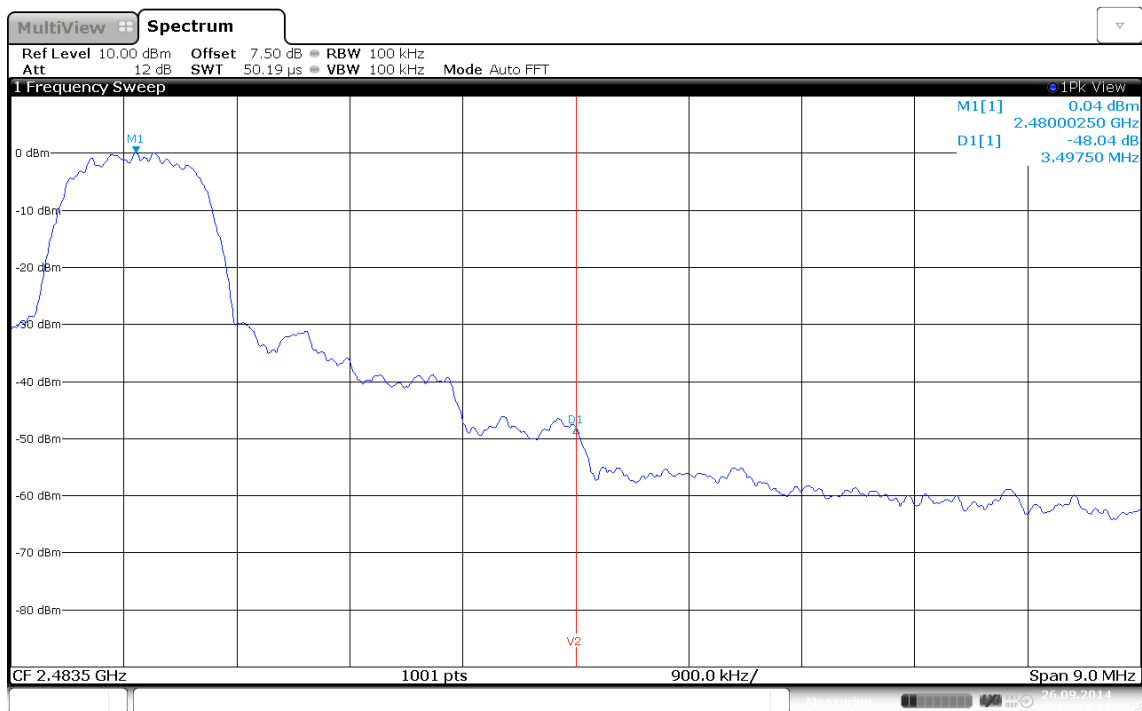
Limit: Marker Delta value >20 dB; Result: PASS
Date: 26.SEP.2014 13:37:53

Band-edge compliance – 2-DH5-Sngl F_{HIGH}

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



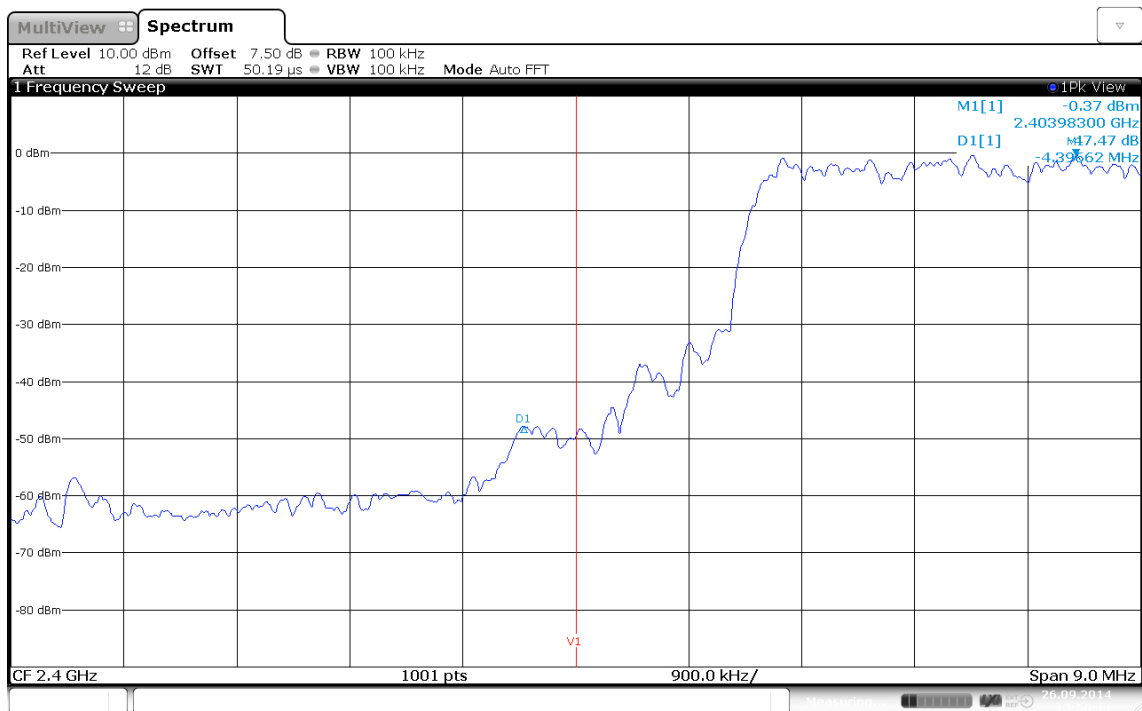
Limit: Marker Delta value >20 dB; Result: PASS
 Date: 26.SEP.2014 13:39:27

Band-edge compliance – 2-DH5-Hop F_{LOW}

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

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

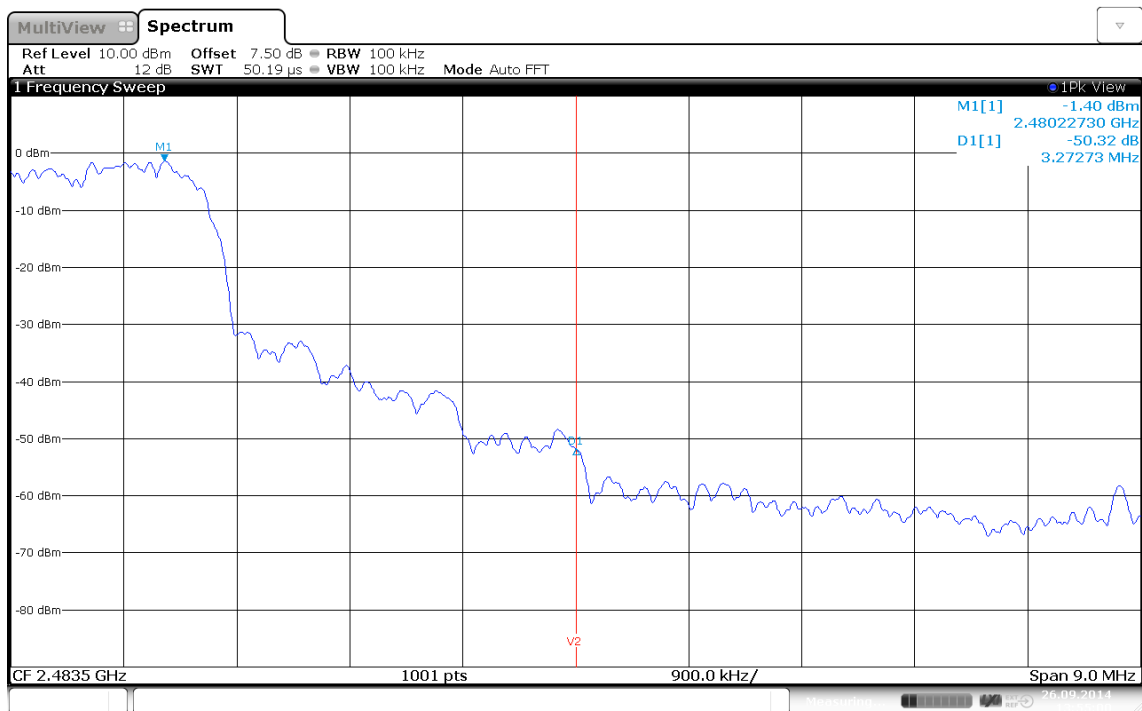
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – 2-DH5-Hop F_{HIGH}

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

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

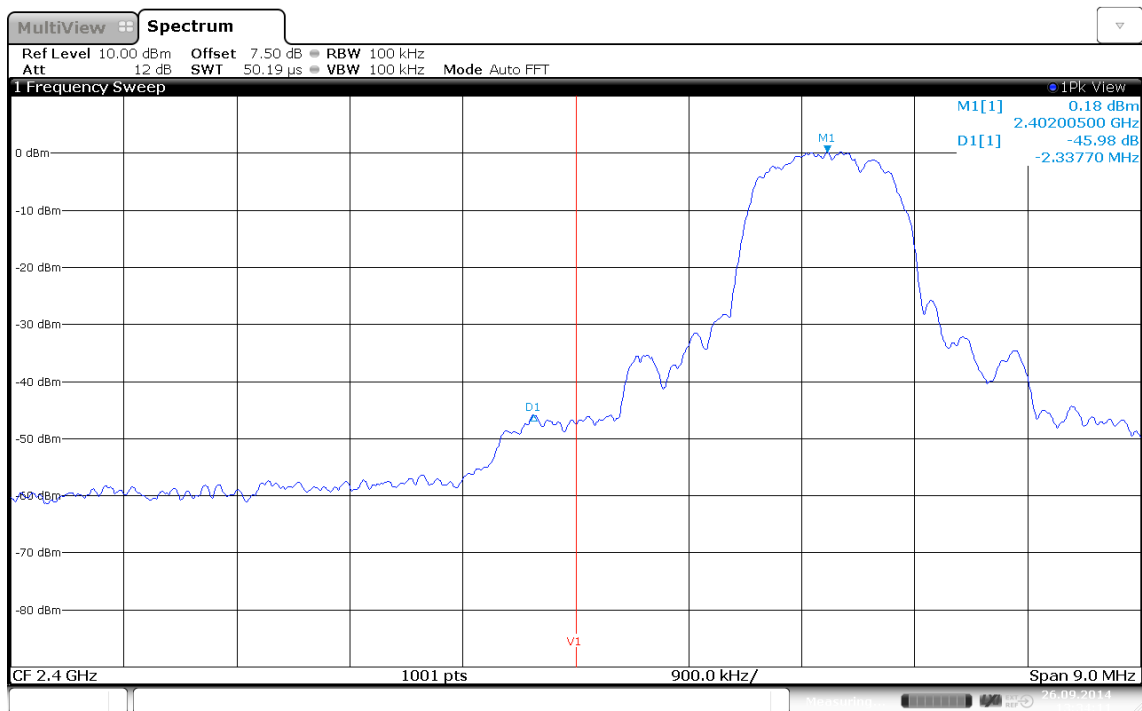
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – 3-DH5-Sngl F_{LOW}

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

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

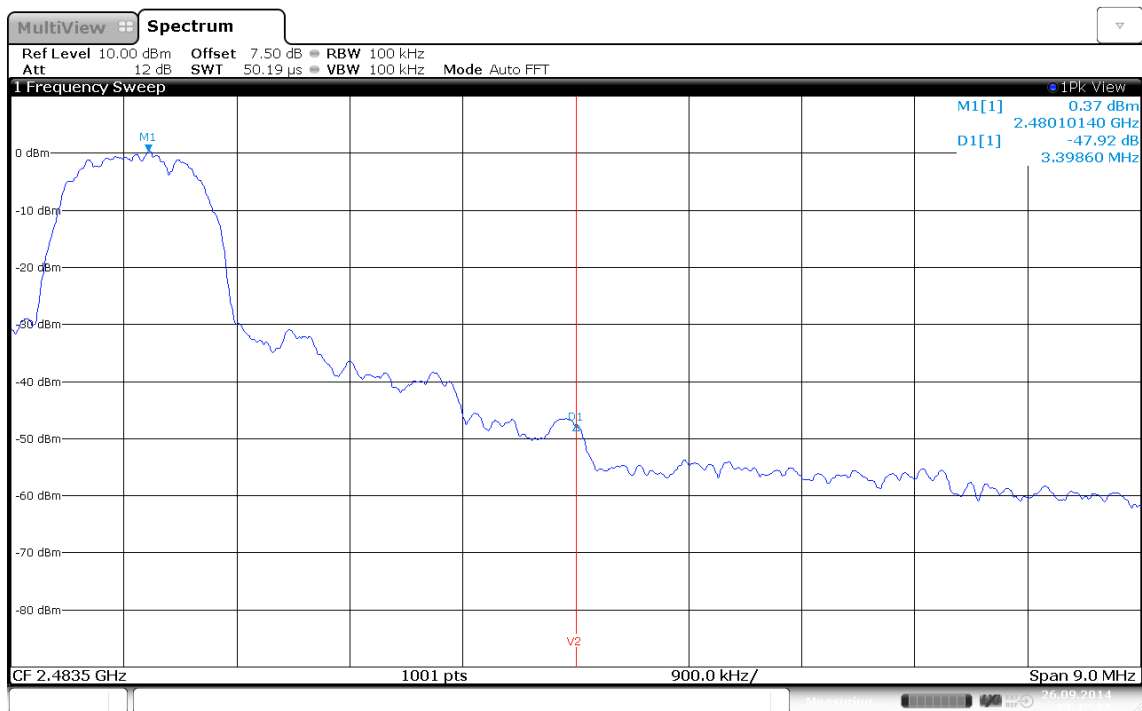
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – 3-DH5-Sngl F_{HIGH}

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



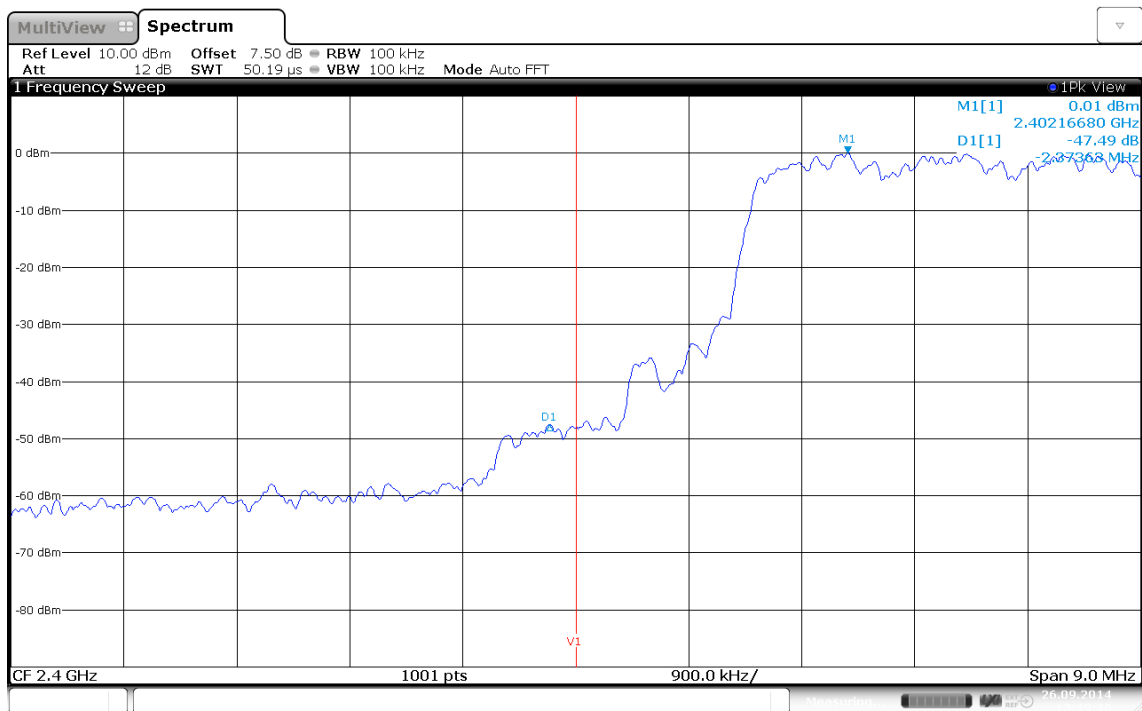
Limit: Marker Delta value >20 dB; Result: PASS
 Date: 26.SEP.2014 13:42:25

Band-edge compliance – 3-DH5-Hop F_{LOW}

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

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

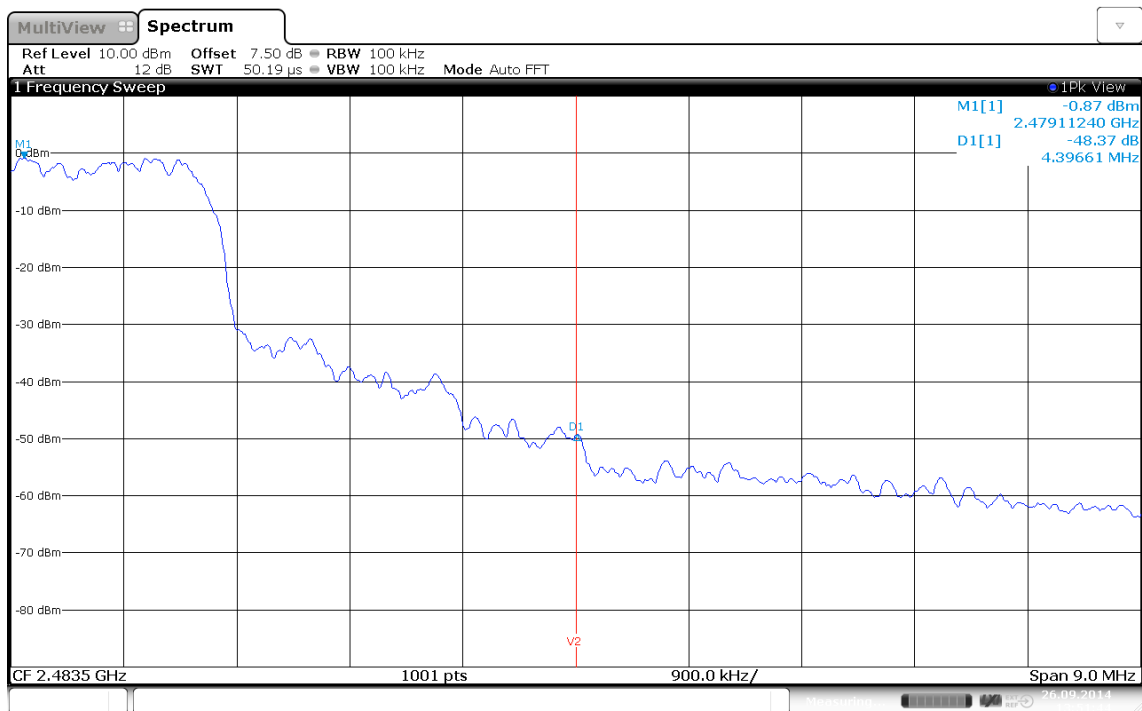
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – 3-DH5-Hop F_{HIGH}

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

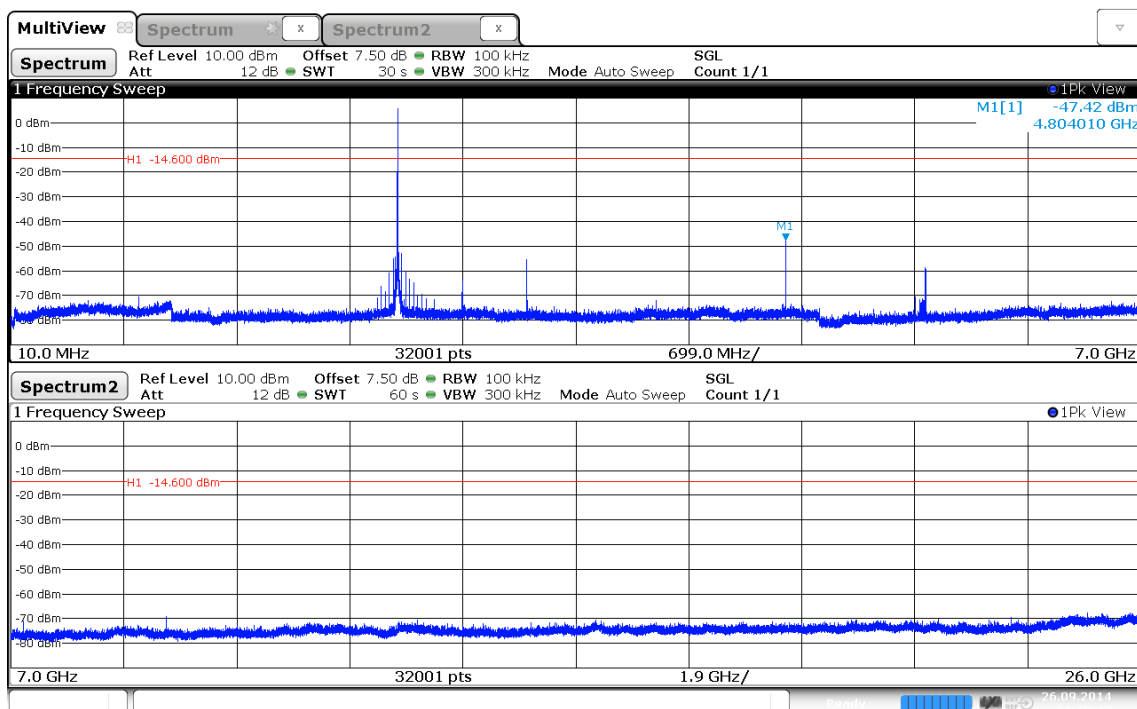
Conducted spurious emissions acc. FCC 15.247 / IC RSS-210						Verdict: PASS	
EUT requirement rule parts and clause			Reference				
			FCC 15.247(d) / IC RSS-210 A8.5				
Test according to measurement reference			Reference Method				
			FCC Public Notice DA 00-705				
Test frequency range			Tested frequencies				
			10 MHz – 10 th 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							
Spectrum Analyzer EUT							
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 is set to 100 kHz and detector to peak and max hold 4. Markers are set to peak emission levels within frequency band 5. Emission level is determined by second marker on emission peak 6. Attenuation is determined from level difference							
Test results							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Emission Level [dbm]	Limit [dBm]	Margin [dB]	Result
F _{LOW}	2402	DH5-Sngl	4804	-47.4	-14.6	-32.8	PASS
F _{MID}	2441	DH5-Sngl	4882	-41.8	-14.8	-27.0	PASS
F _{HIGH}	2480	DH5-Sngl	4960	-42.8	-15.4	-27.4	PASS
F _{LOW}	2402	3DH5-Sngl	4804	-52.1	-18.7	-33.4	PASS
F _{MID}	2441	3DH5-Sngl	4882	-46.9	-18.6	-28.3	PASS
F _{HIGH}	2480	3DH5-Sngl	4960	-50.5	-19.1	-31.4	PASS
Comments:							

Conducted spurious emissions – DH5-Sngl F_{Low}

Spurious Emissions acc. 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: 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



Date: 26.SEP.2014 14:10:42

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

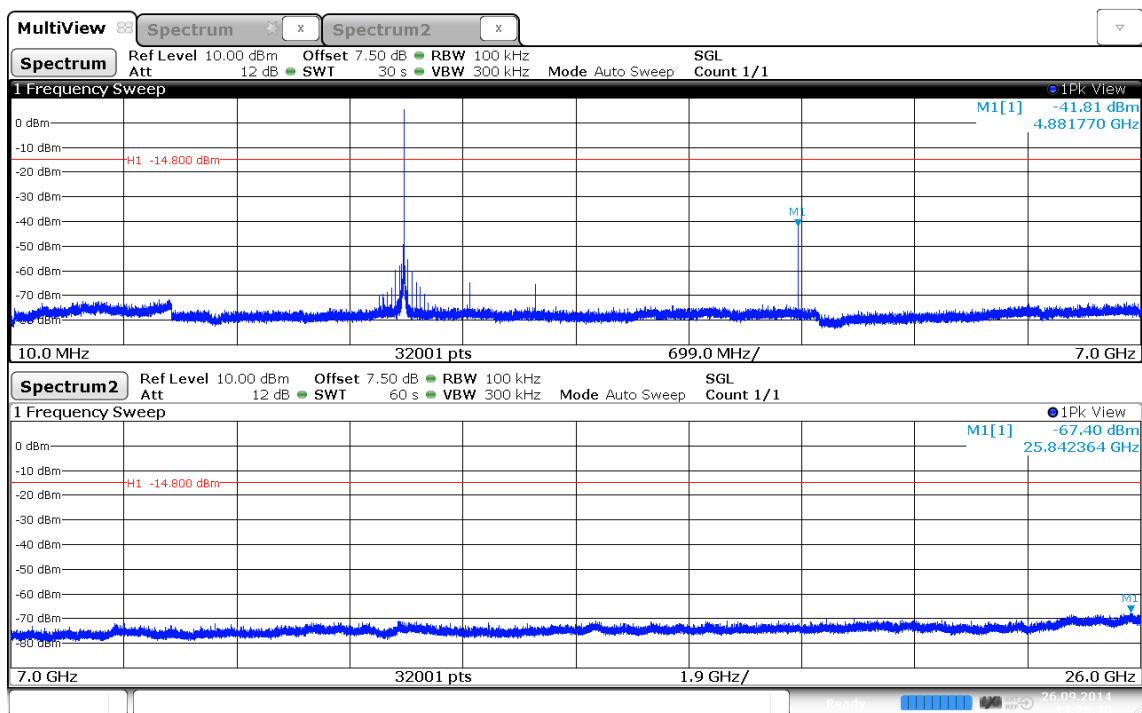
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted spurious emissions – DH5-Sngl F_{MID}

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



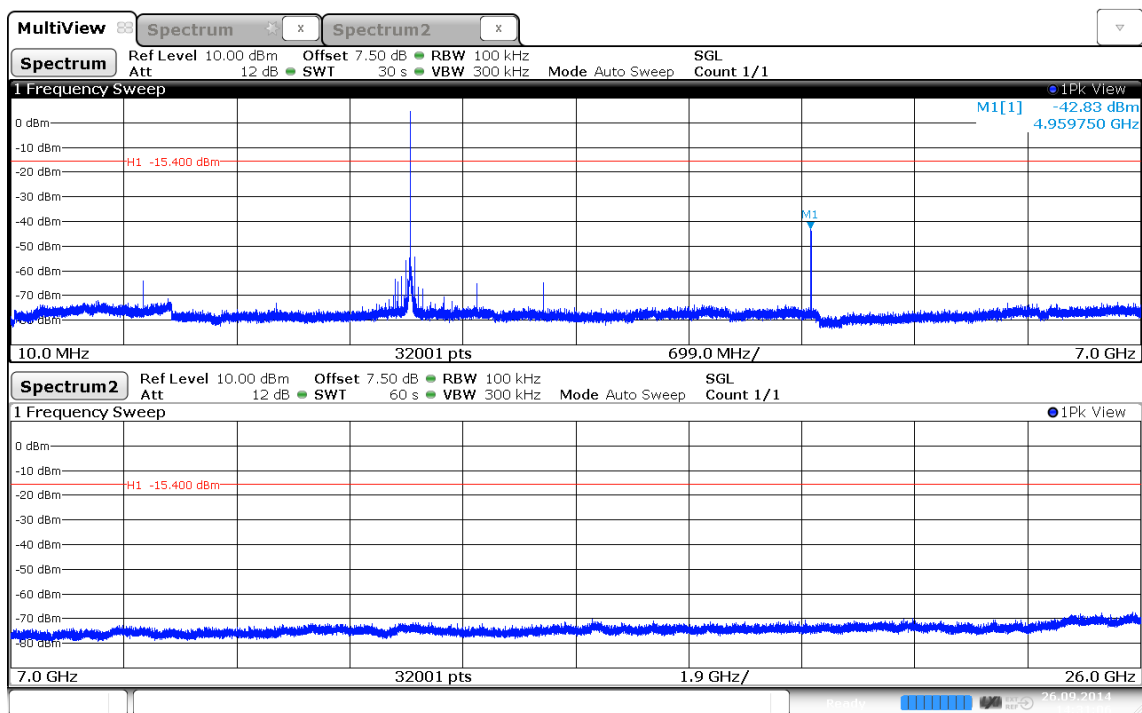
Date: 26 SEP 2014 14:26:40

Conducted spurious emissions – DH5-Sngl F_{HIGH}

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



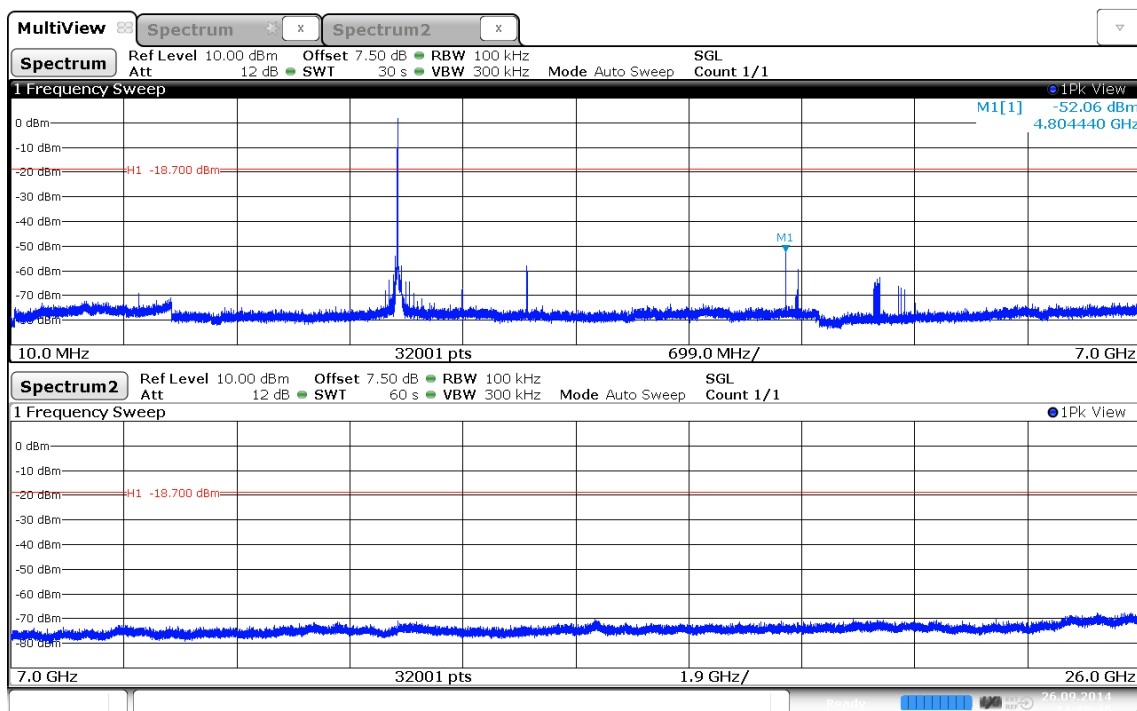
Date: 26 SEP 2014 14:31:06

Conducted spurious emissions – 3-DH5-Sngl F_{Low}

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

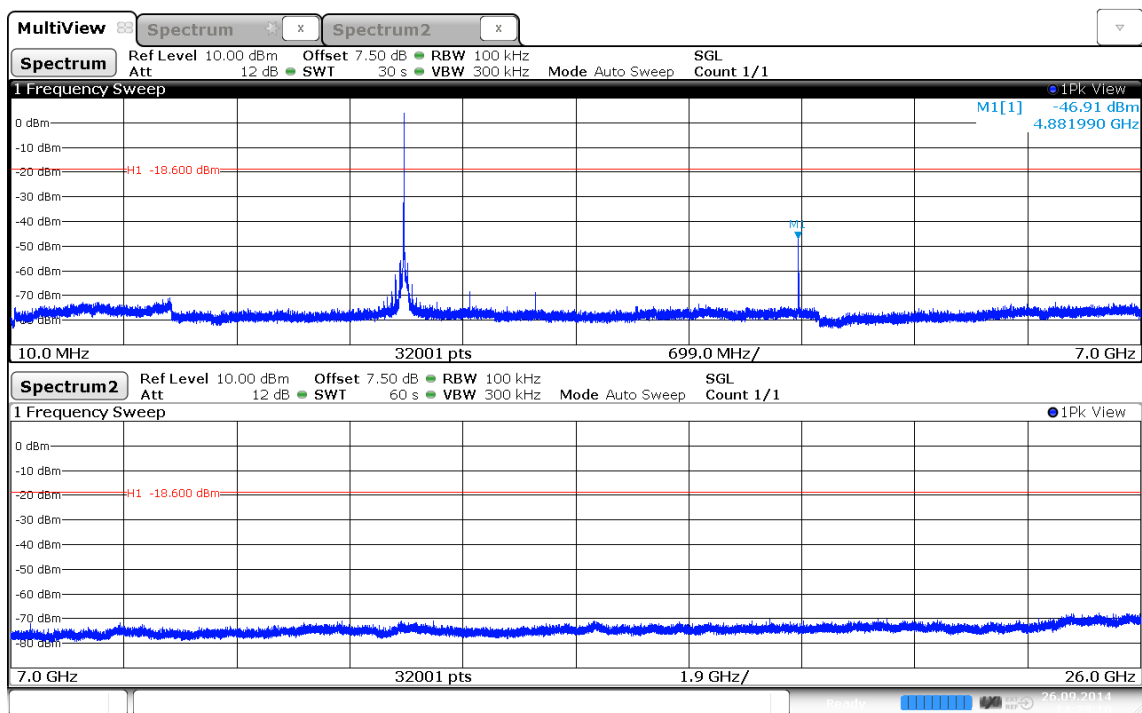


Conducted spurious emissions – 3-DH5-Sngl F_{MID}

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

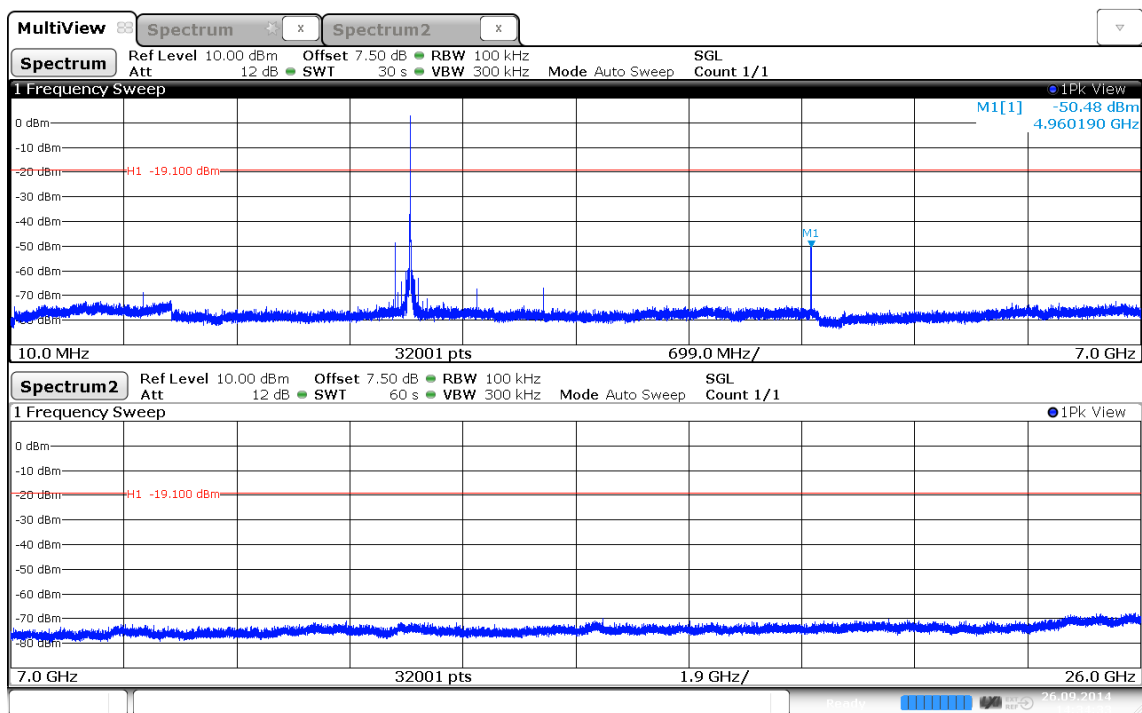


Conducted spurious emissions – 3-DH5-Sngl F_{HIGH}

Spurious Emissions acc. to FCC 15.247

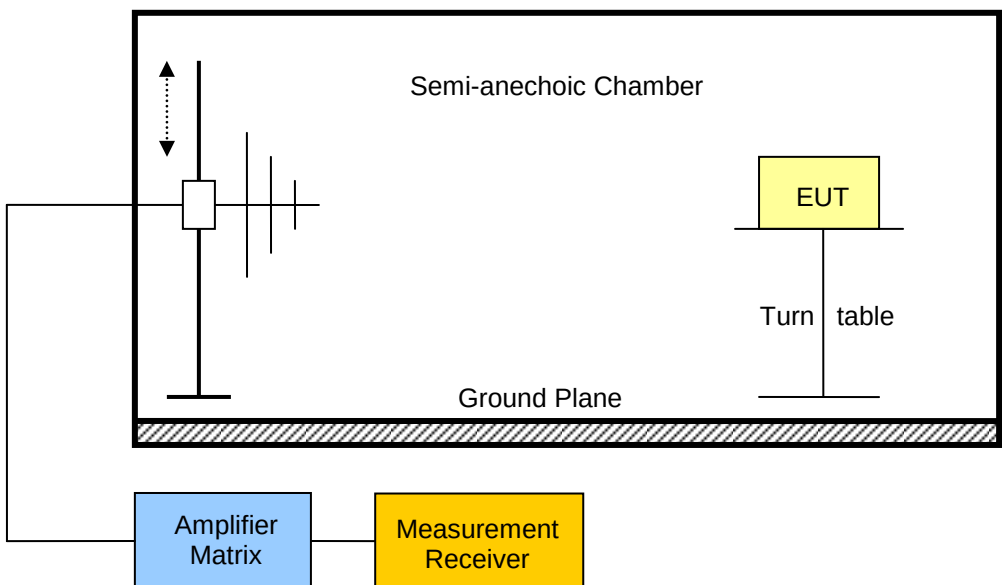
Project Number: G0M-1407-3973

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



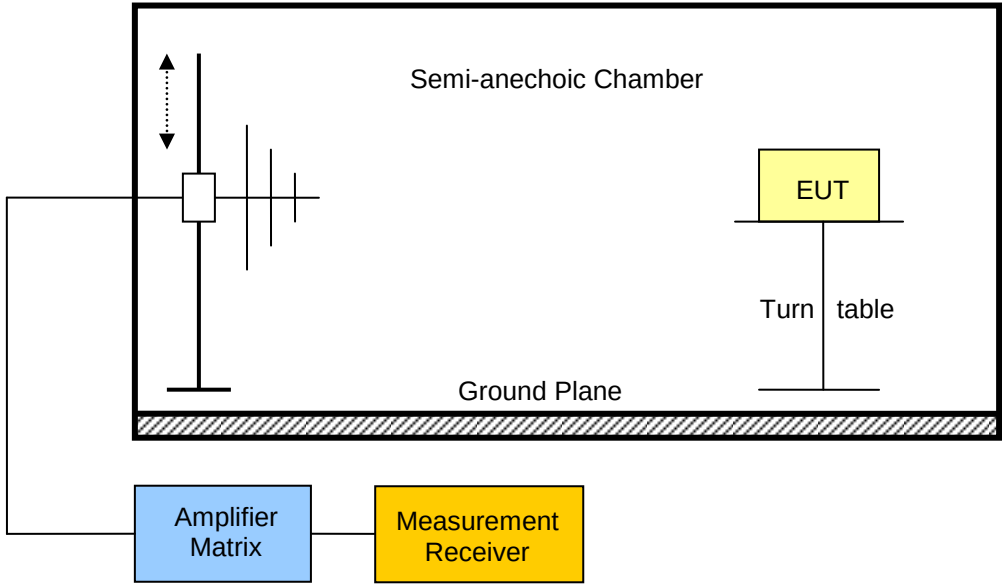
Date: 26 SEP 2014 14:34:34

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 th Harmonic			
Limits				
Frequency range [MHz]	Detector	Limit [μV/m]	Limit [dBμV/m]	Limit Distance [m]
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)). When average radiated emission measurements are specified, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.				
Test setup				
				

Test procedure									
1. EUT set to test mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz 4. Markers are set to peak emission levels within restricted bands									
Test results – Internal Antenna									
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Limit dist. [m]*	Margin [dB]
F _{HIGH}	2480	3-DH5-Sngl	2483.5	64.09	pk	hor	74.00	3	-09.91
F _{HIGH}	2480	3-DH5-Sngl	2483.5	51.20	RMS	hor	54.00	3	-02.80
F _{HIGH}	2480	3-DH5-Sngl	2500	46.95	pk	hor	74.00	3	-27.05
F _{HIGH}	2480	3-DH5-Sngl	2503	49.90	pk	hor	95.00	3	-45.10
F _{HIGH}	2480	3-DH5-Sngl	4960	57.06	pk	hor	74.00	3	-16.94
F _{HIGH}	2480	3-DH5-Sngl	4960	47.82	avg	hor	54.00	3	-06.18
F _{MID}	2441	3-DH5-Sngl	4882	54.75	pk	ver	74.00	3	-19.25
F _{MID}	2441	3-DH5-Sngl	4882	46.55	avg	ver	54.00	3	-07.45
F _{HIGH}	2480	DH5-Sngl	2483.5	55.41	pk	hor	74.00	3	-18.59
F _{HIGH}	2480	DH5-Sngl	2483.5	48.76	RMS	hor	54.00	3	-05.24
F _{HIGH}	2480	DH5-Sngl	2500	36.94	pk	hor	74.00	3	-37.06
F _{HIGH}	2480	DH5-Sngl	2503	51.08	pk	hor	95.00	3	-43.92
F _{HIGH}	2480	DH5-Sngl	4960	57.48	pk	hor	74.00	3	-16.52
F _{HIGH}	2480	DH5-Sngl	4960	52.43	avg	hor	54.00	3	-01.57
F _{LOW}	2402	DH5-Sngl	17988	49.01	pk	hor	74.00	3	-24.99
F _{LOW}	2402	DH5-Sngl	22981	43.79	pk	hor	74.00	3	-30.21
F _{MID}	2441	DH5-Sngl	4882	55.07	pk	hor	74.00	3	-18.93
F _{MID}	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 th Harmonic			
EUT test mode	Receive			
Limits				
Frequency range [MHz]	Detector	Limit [μV/m]	Limit [dBμV/m]	Limit Distance [m]
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
Test setup				
				

Test procedure							
1. EUT set to receive mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz 4. Markers are set to peak emission levels							
Test results							
Channel	Emission [MHz]	Emission Level [db μ V/m]	Polarization	Det.	Limit [μ 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							

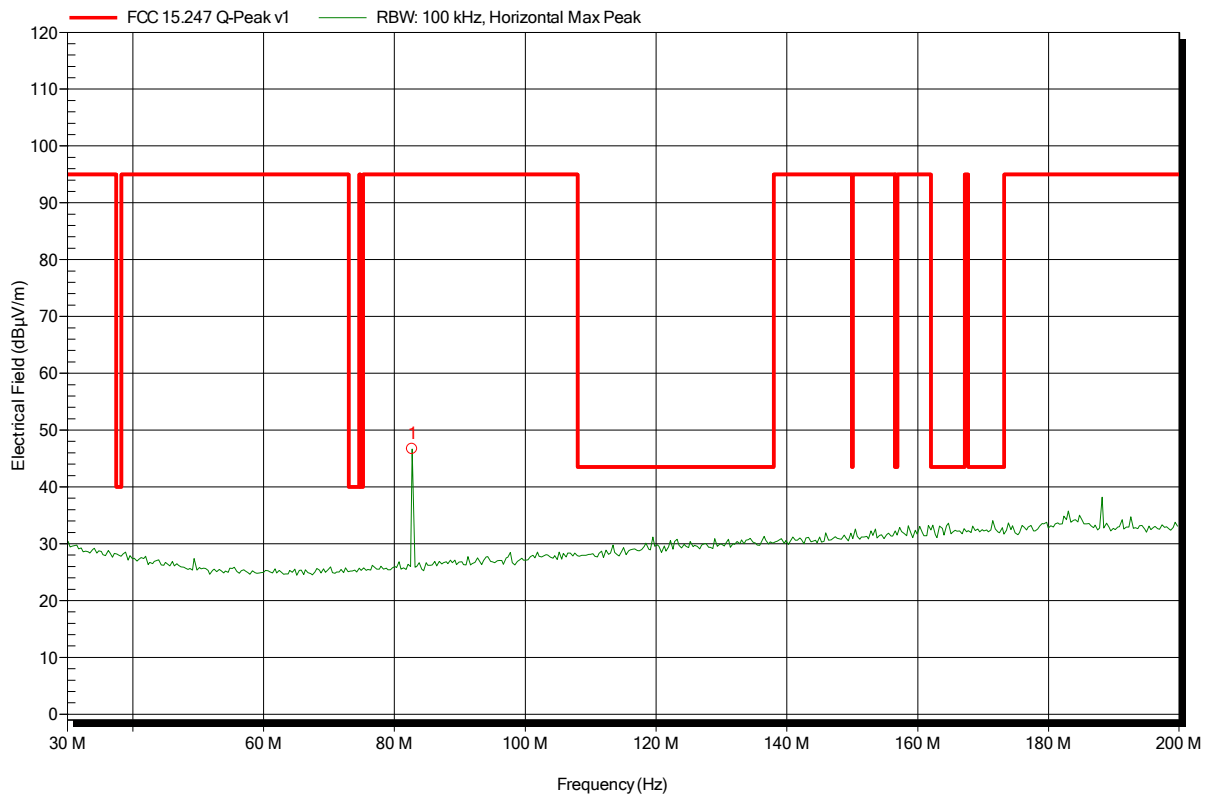
ANNEX A Transmitter radiated spurious emissions

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

Index 38



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

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

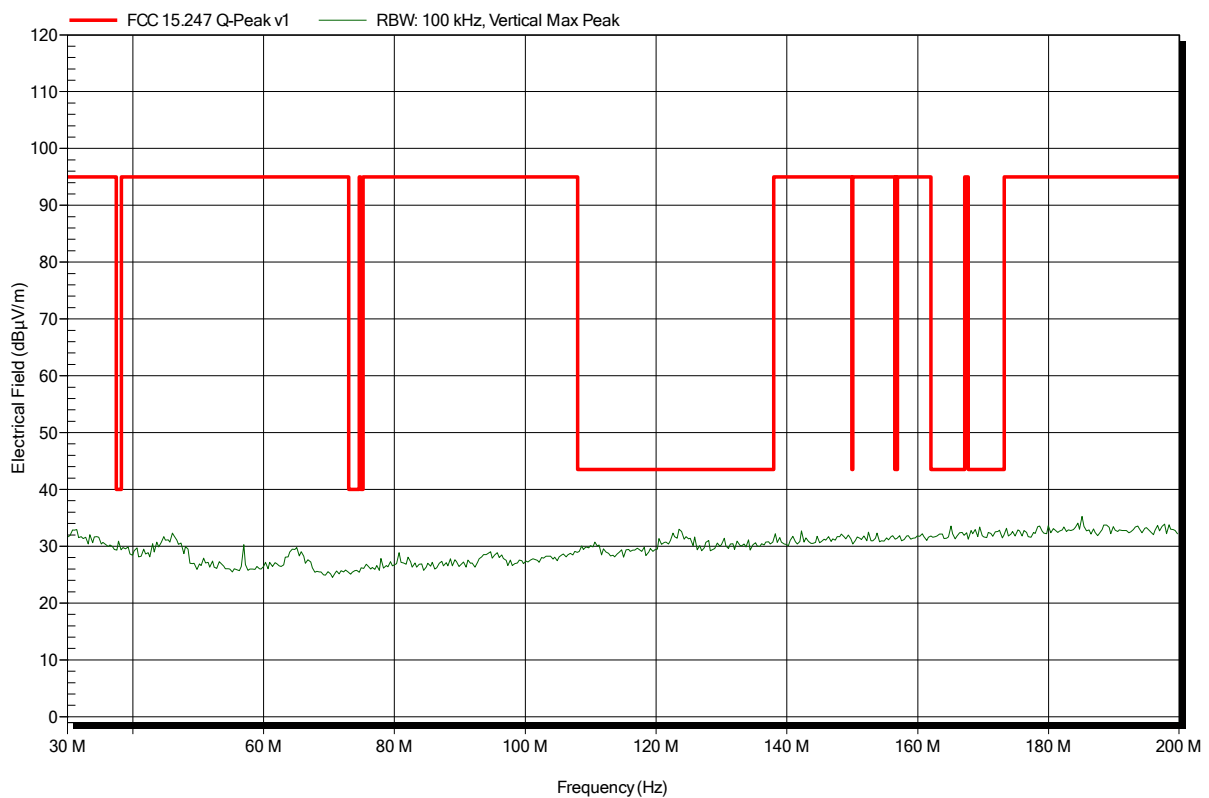
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	Basic Rate; Worst Case
Test Date:	2014-09-24
Note:	worst case

Index 39

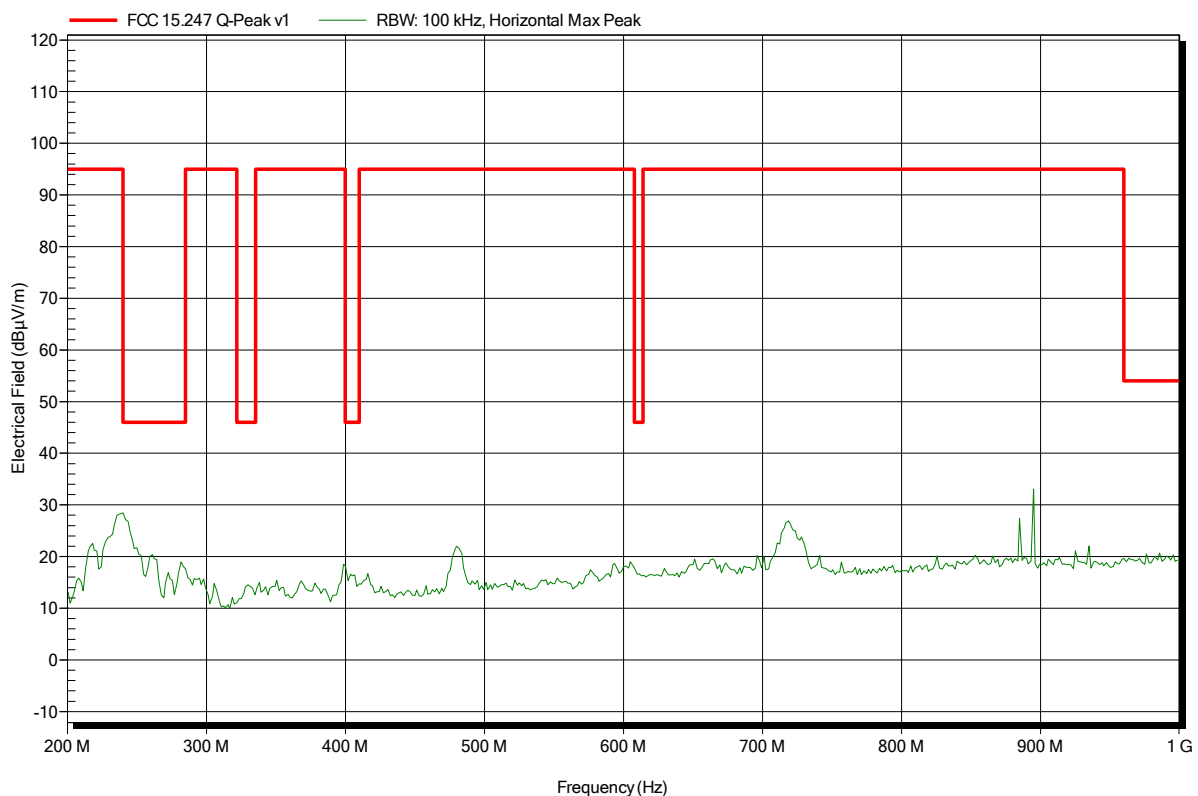


Spurious emissions according to FCC 15.247

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

Index 41

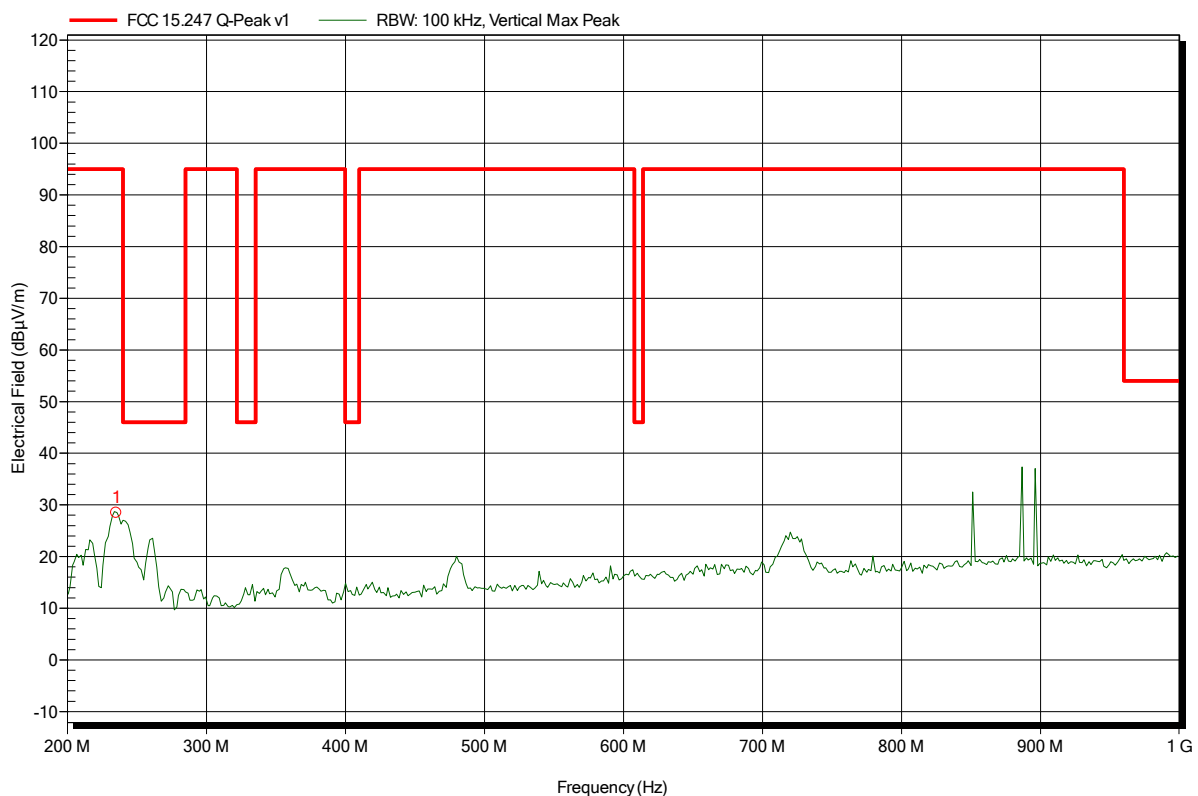


Spurious emissions according to FCC 15.247

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

Index 40



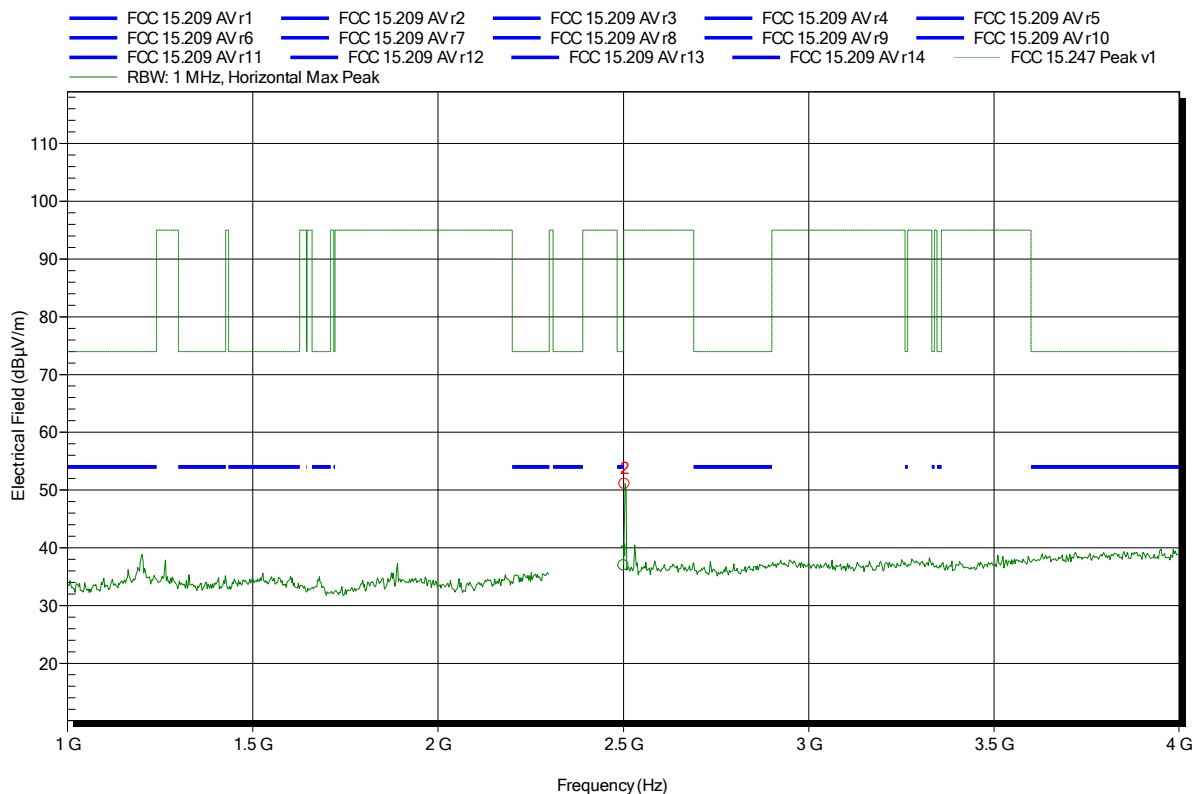
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
235.2 MHz	28.48 dBμV/m	95 dBμV/m	-66.52 dB	Pass

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:

Index 15



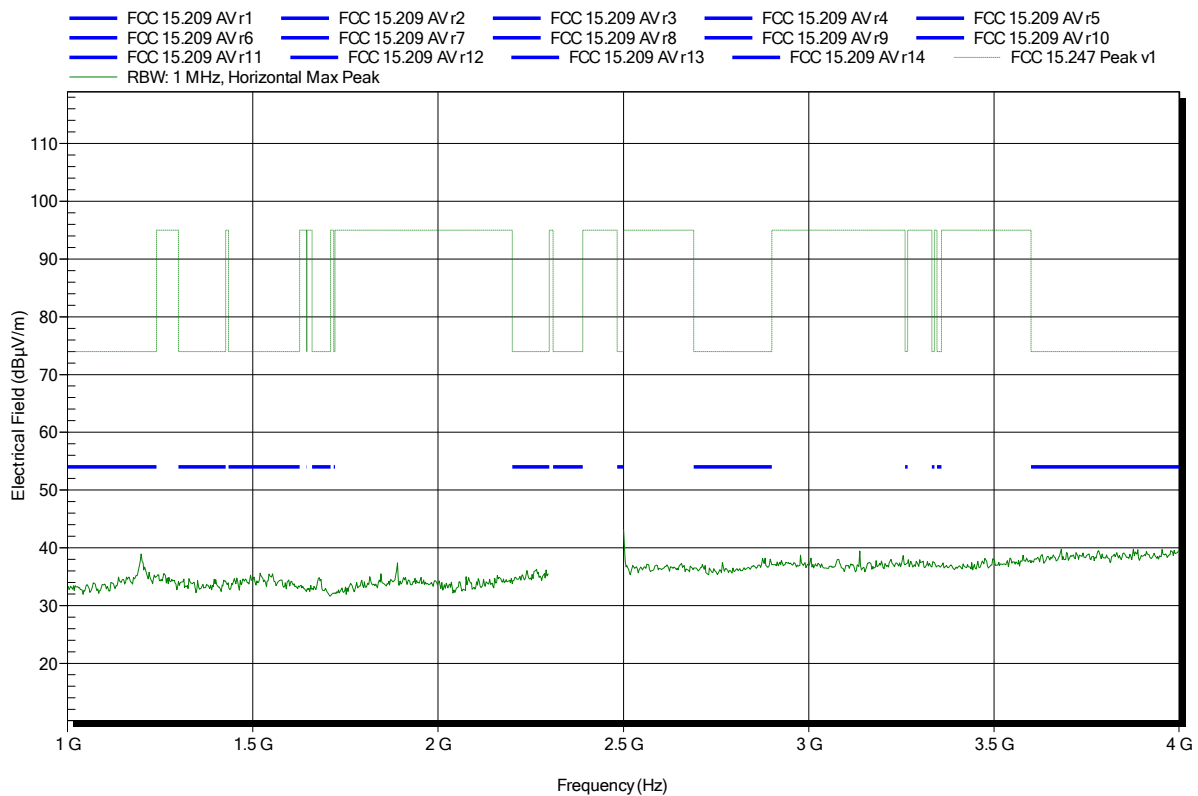
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.5 GHz	36.94 dBμV/m	74 dBμV/m	-37.06 dB	Pass
2.503 GHz	51.08 dBμV/m	95 dBμV/m	-43.92 dB	Pass

Spurious emissions according to FCC 15.247

Project number: 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: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: BASIC RATE; Flow
 Test Date: 2014-09-22
 Note:

Index 7

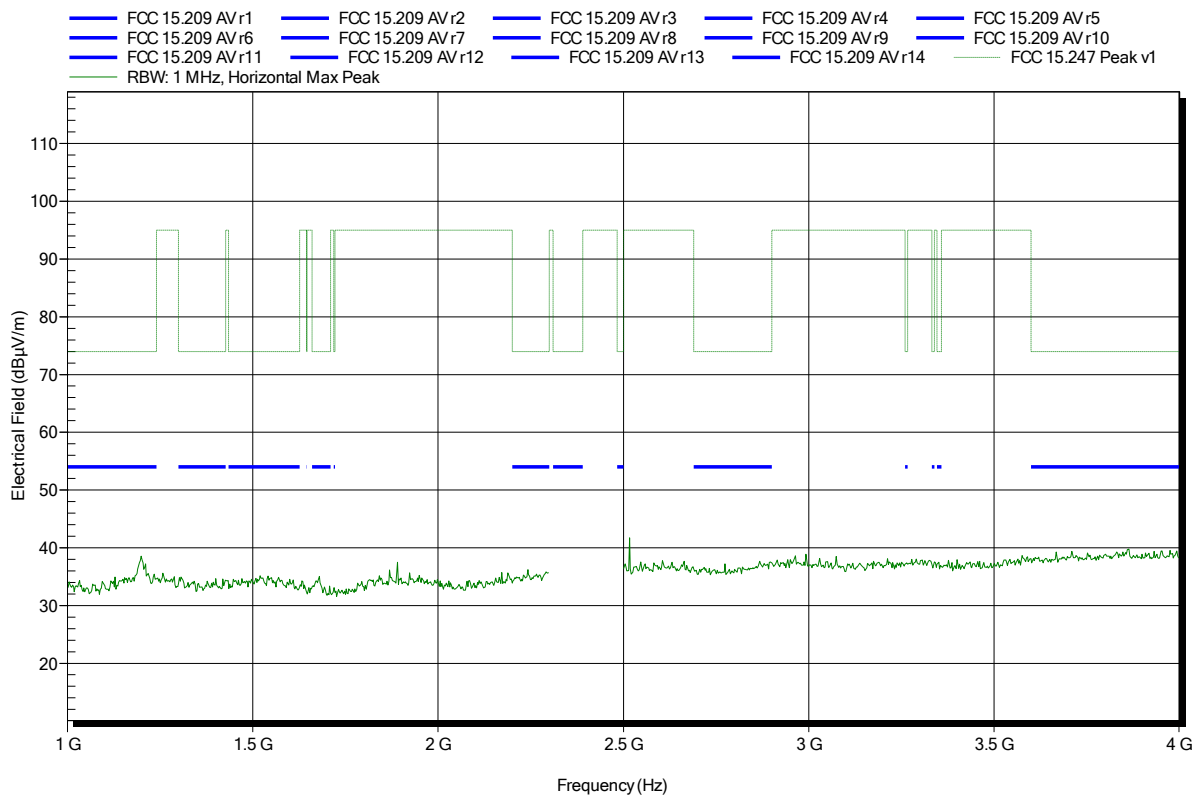


Spurious emissions according to FCC 15.247

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:

Index 13

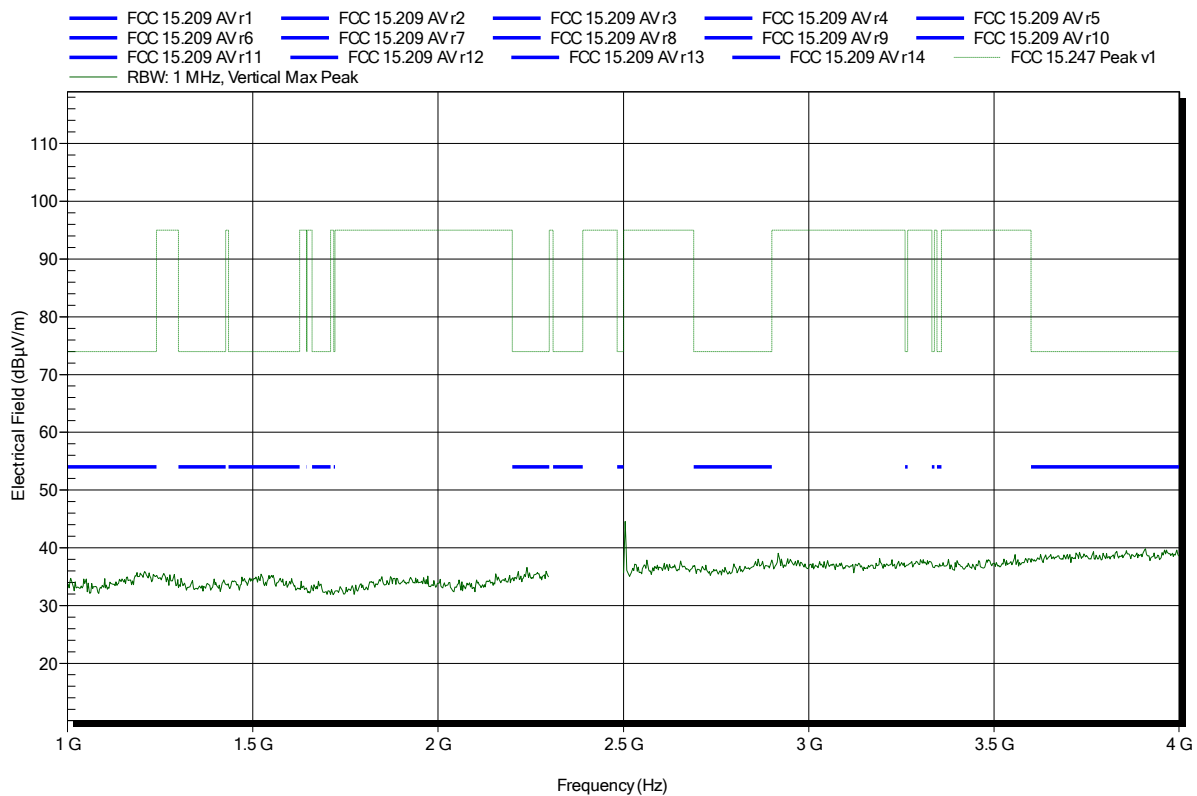


Spurious emissions according to FCC 15.247

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:

Index 18

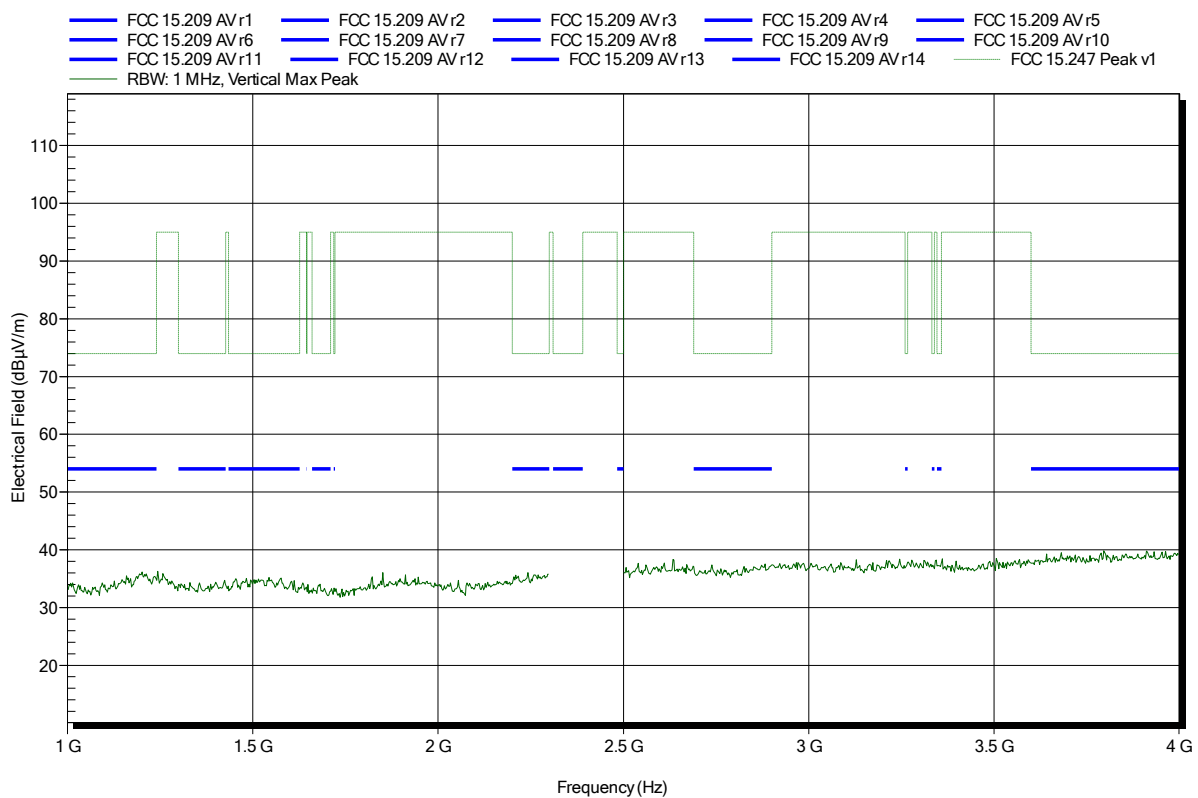


Spurious emissions according to FCC 15.247

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:

Index 6

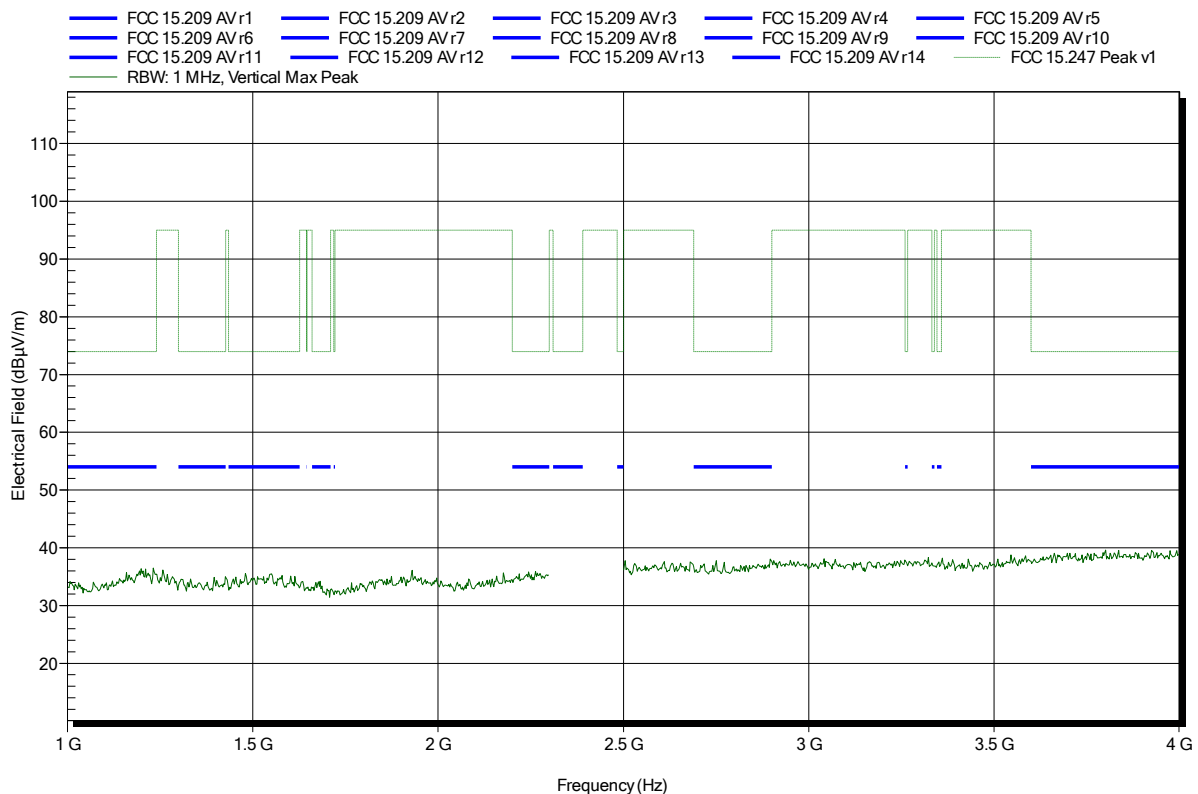


Spurious emissions according to FCC 15.247

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: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: BASIC RATE; Fmid
 Test Date: 2014-09-22
 Note:

Index 11

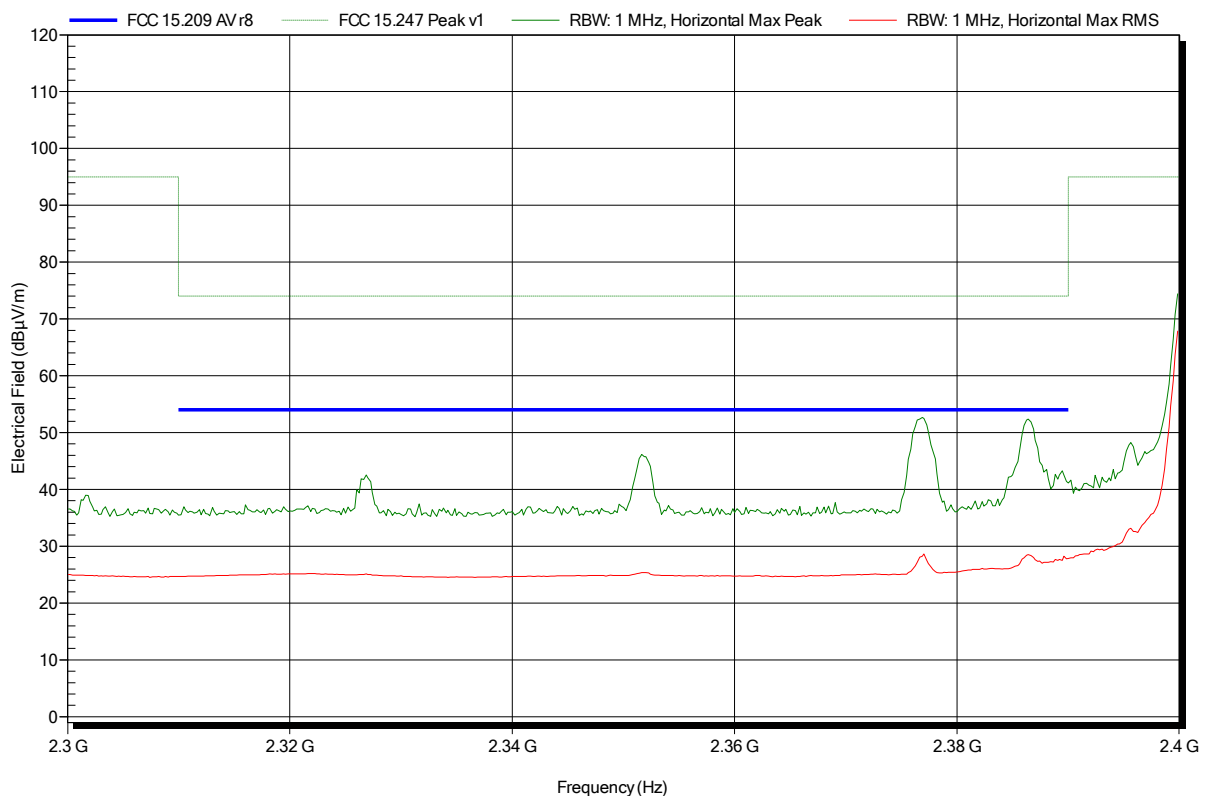


Spurious emissions according to FCC 15.247

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

Index 4

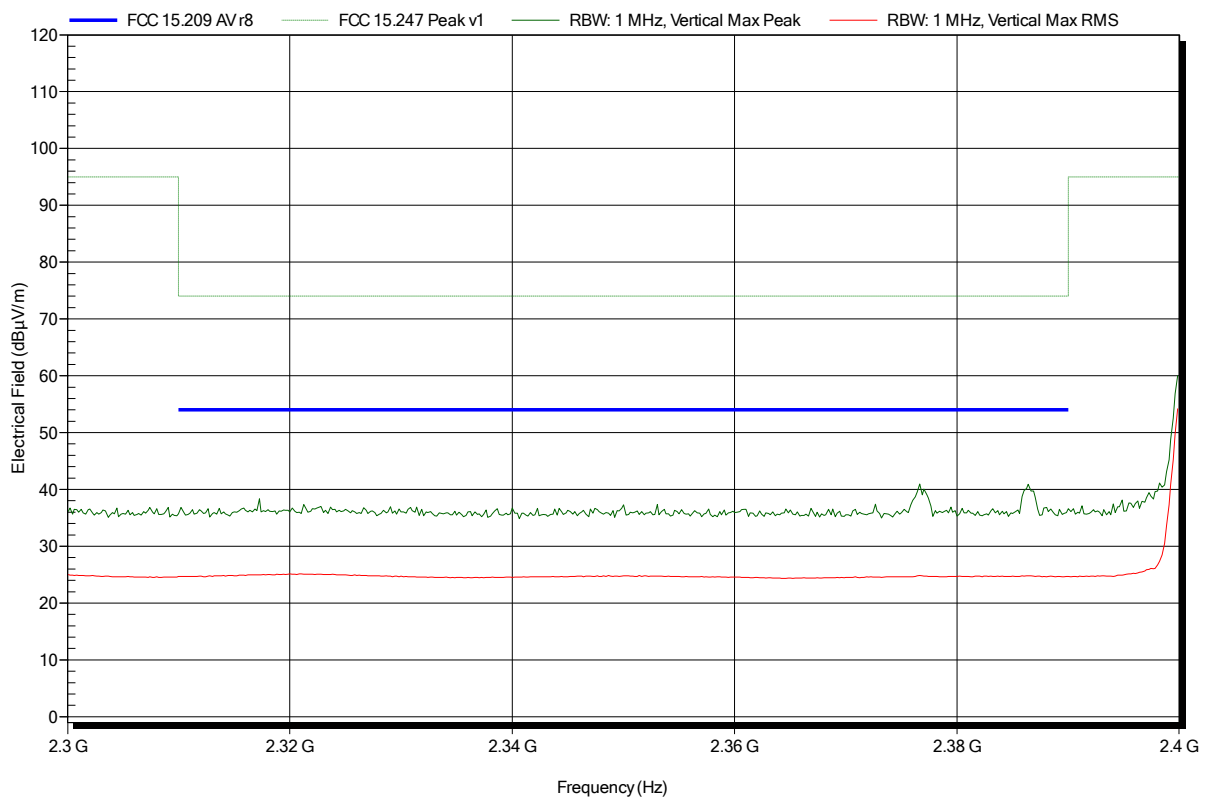


Spurious emissions according to FCC 15.247

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

Index 9

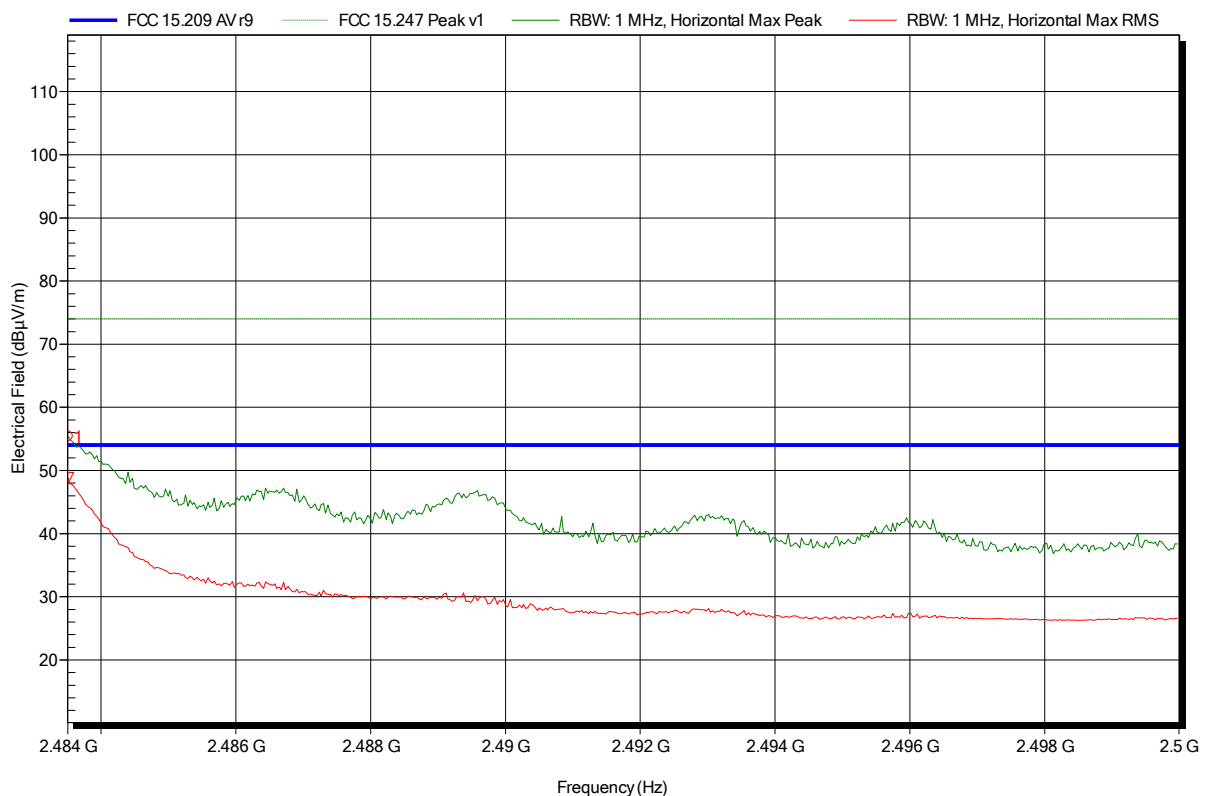


Spurious emissions according to FCC 15.247

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

Index 16



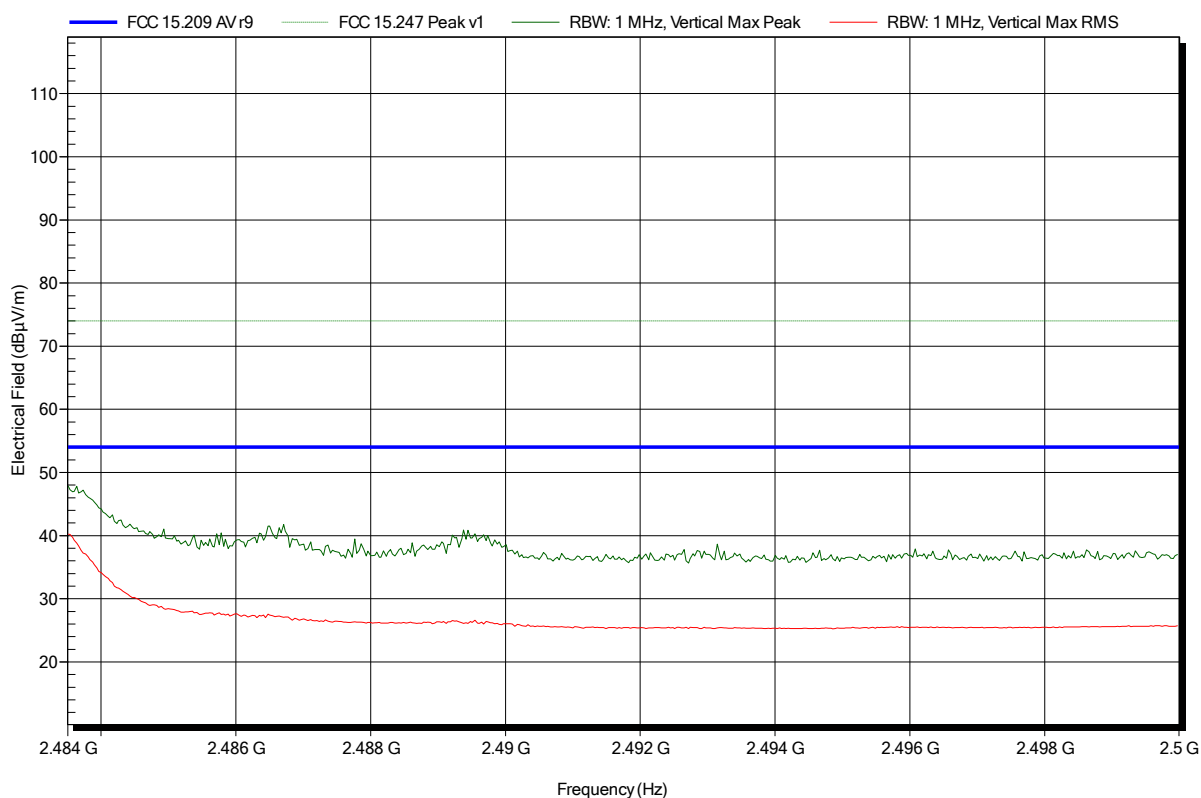
Frequency 2.4835 GHz	Peak 55.41 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -18.59 dB	Peak Status Pass
Frequency 2.4835 GHz	RMS 48.76 dBµV/m	RMS Limit 54 dBµV/m	RMS Difference -5.24 dB	RMS Status Pass

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: upper bandedge

Index 19



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

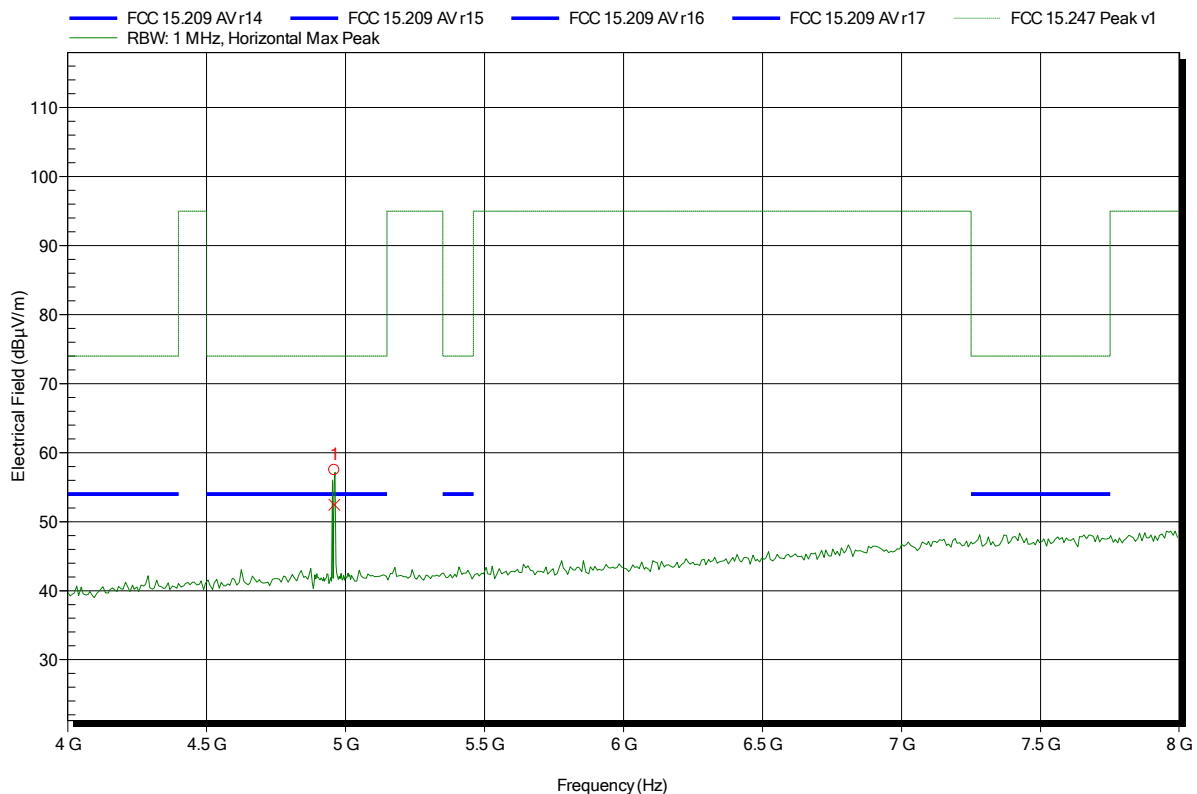
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC 15.247

Project number: 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: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: BASIC RATE; Fhigh
 Test Date: 2014-09-22
 Note:

Index 17



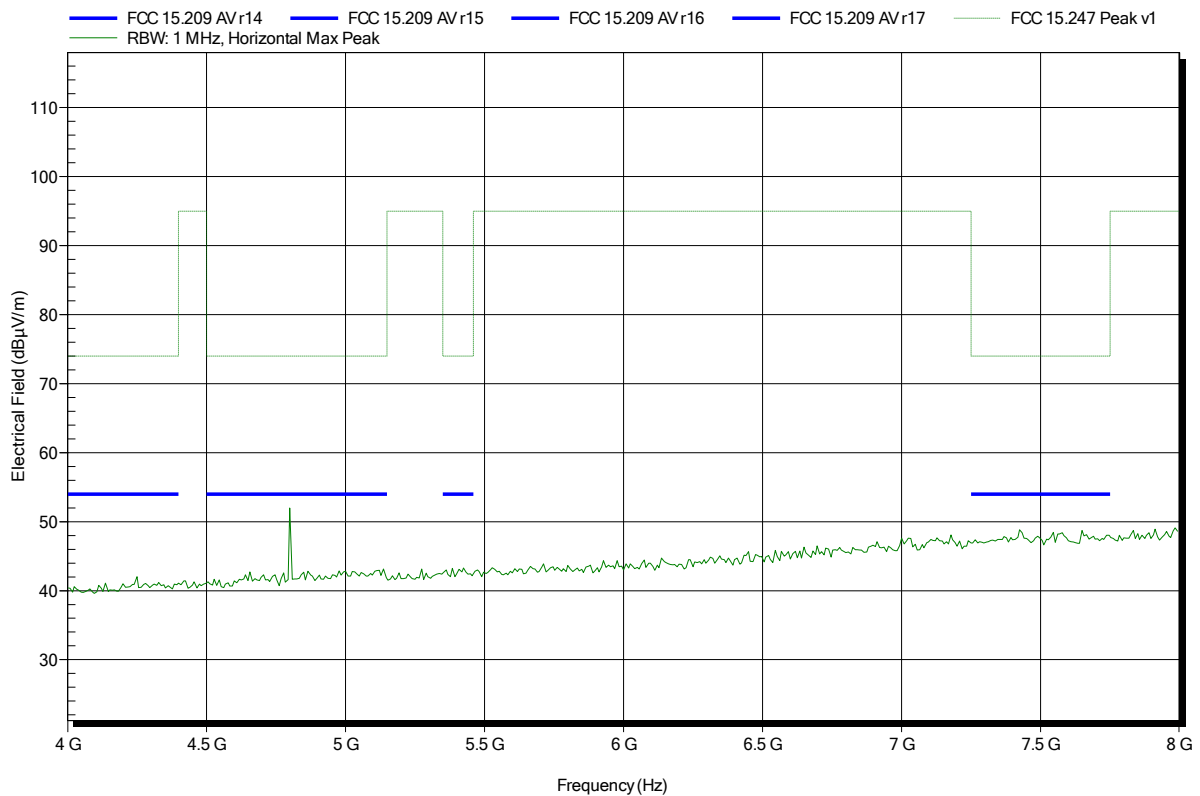
Frequency 4.96 GHz	Peak 57.48 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -16.52 dB	Peak Status Pass
Frequency 4.96 GHz	Average 52.43 dBμV/m	Average Limit 54 dBμV/m	Average Difference -1.57 dB	Average Status Pass

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:

Index 5

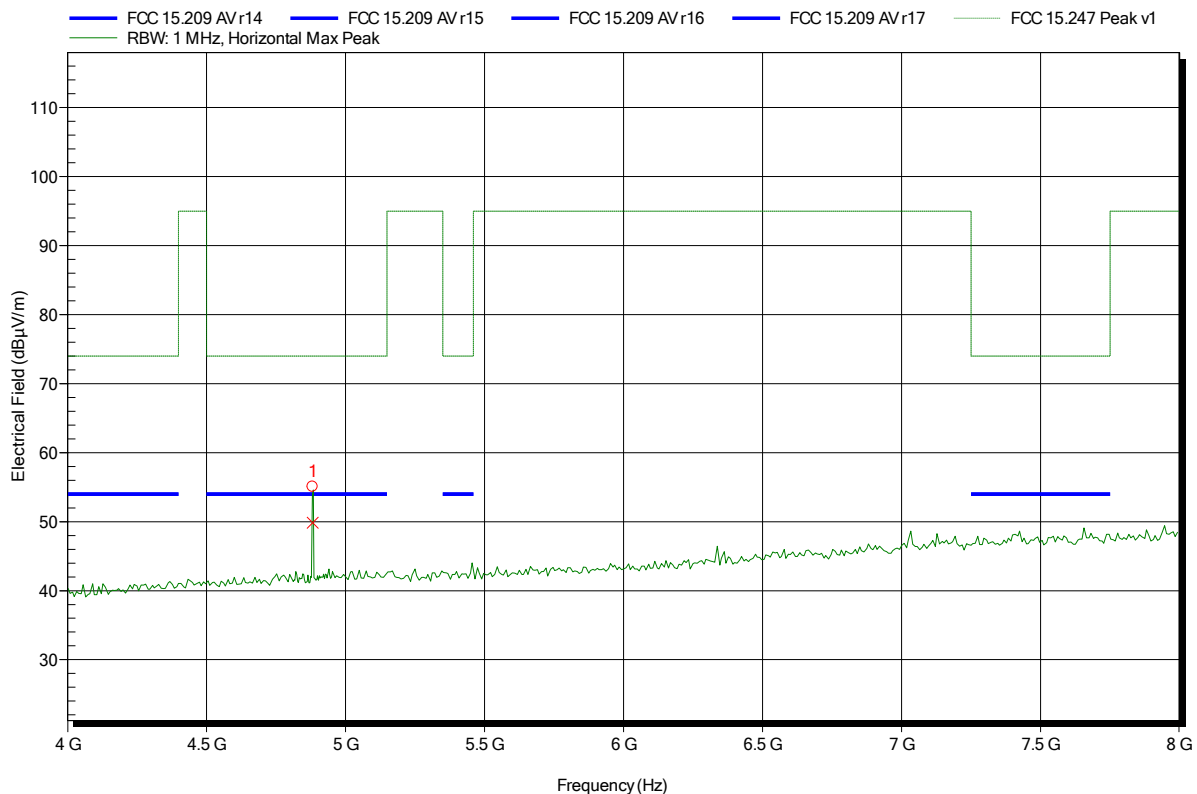


Spurious emissions according to FCC 15.247

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:

Index 14



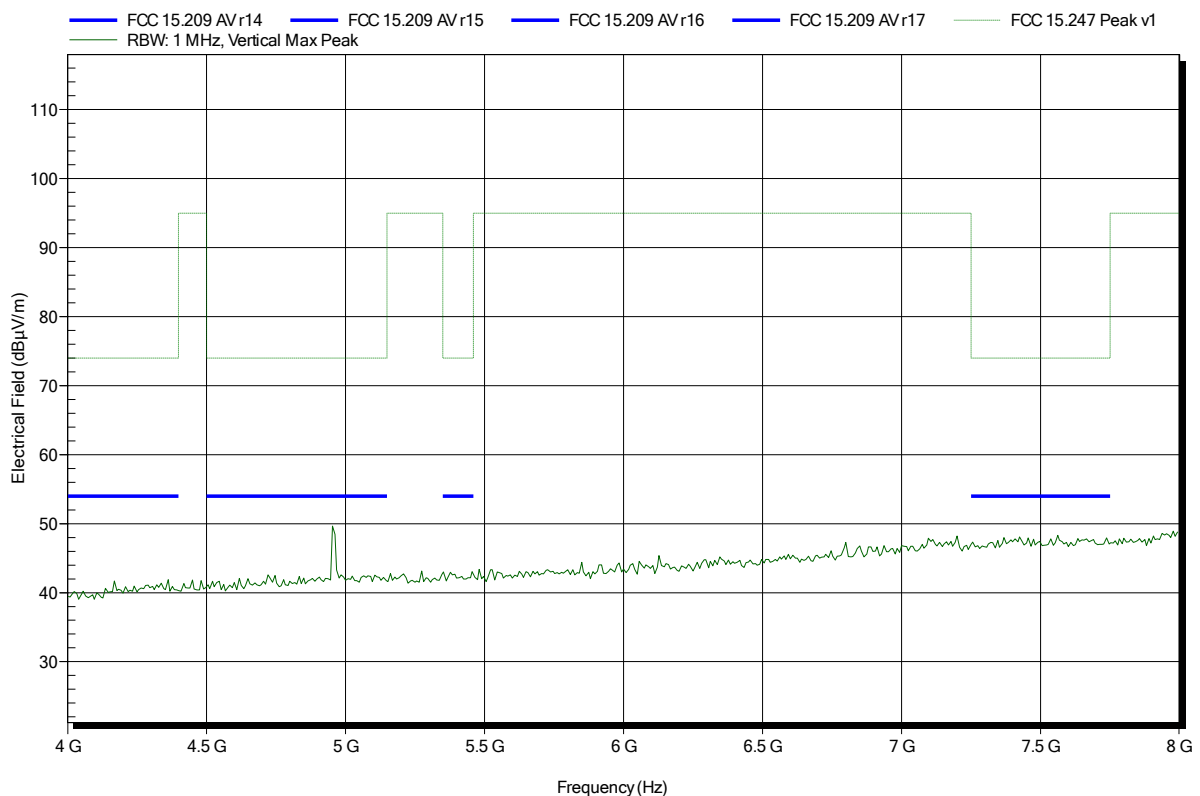
Frequency 4.882 GHz	Peak 55.07 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -18.93 dB	Peak Status Pass
Frequency 4.882 GHz	Average 49.87 dBμV/m	Average Limit 54 dBμV/m	Average Difference -4.13 dB	Average Status Pass

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:

Index 20

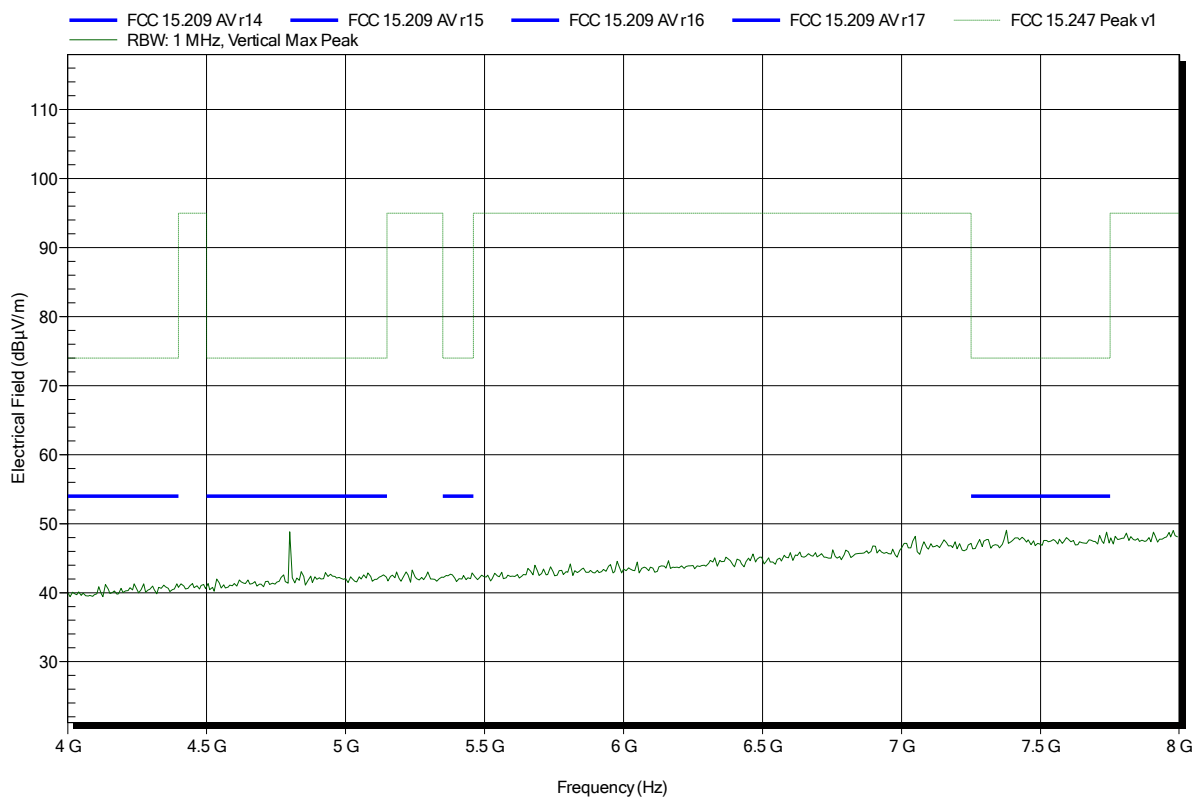


Spurious emissions according to FCC 15.247

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:

Index 10

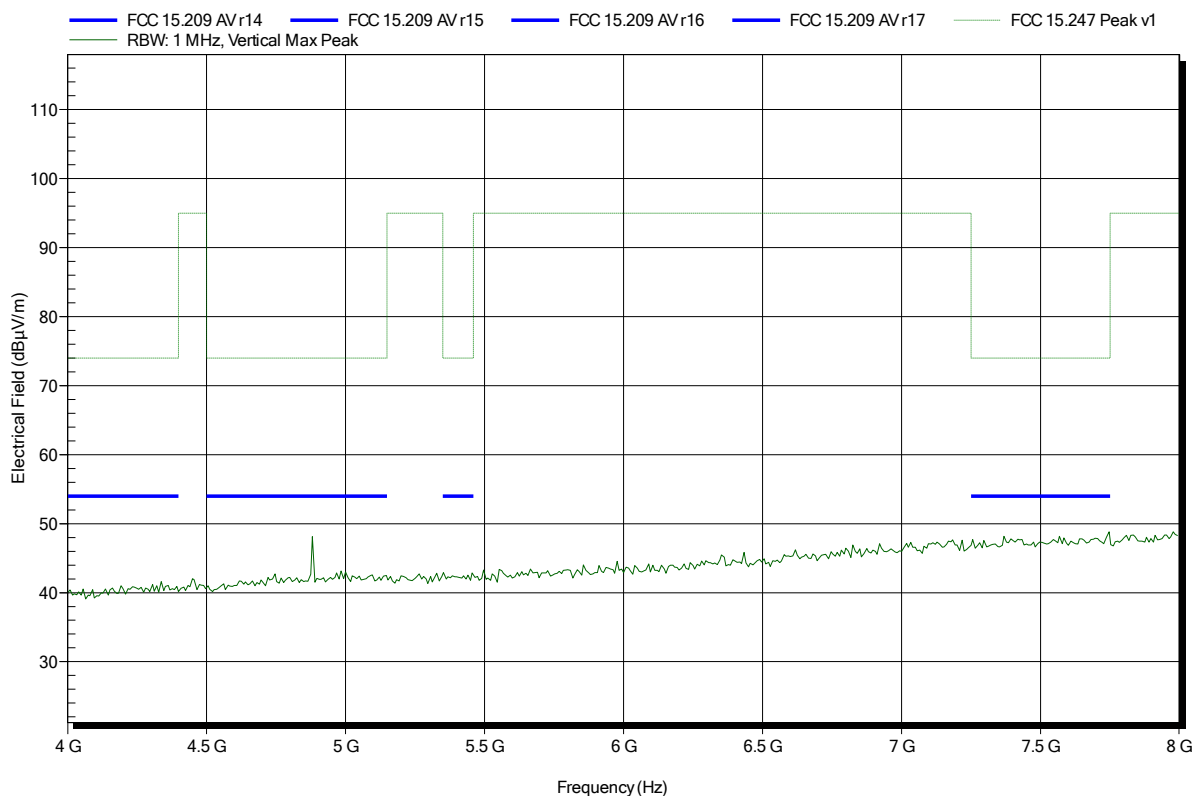


Spurious emissions according to FCC 15.247

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:

Index 12

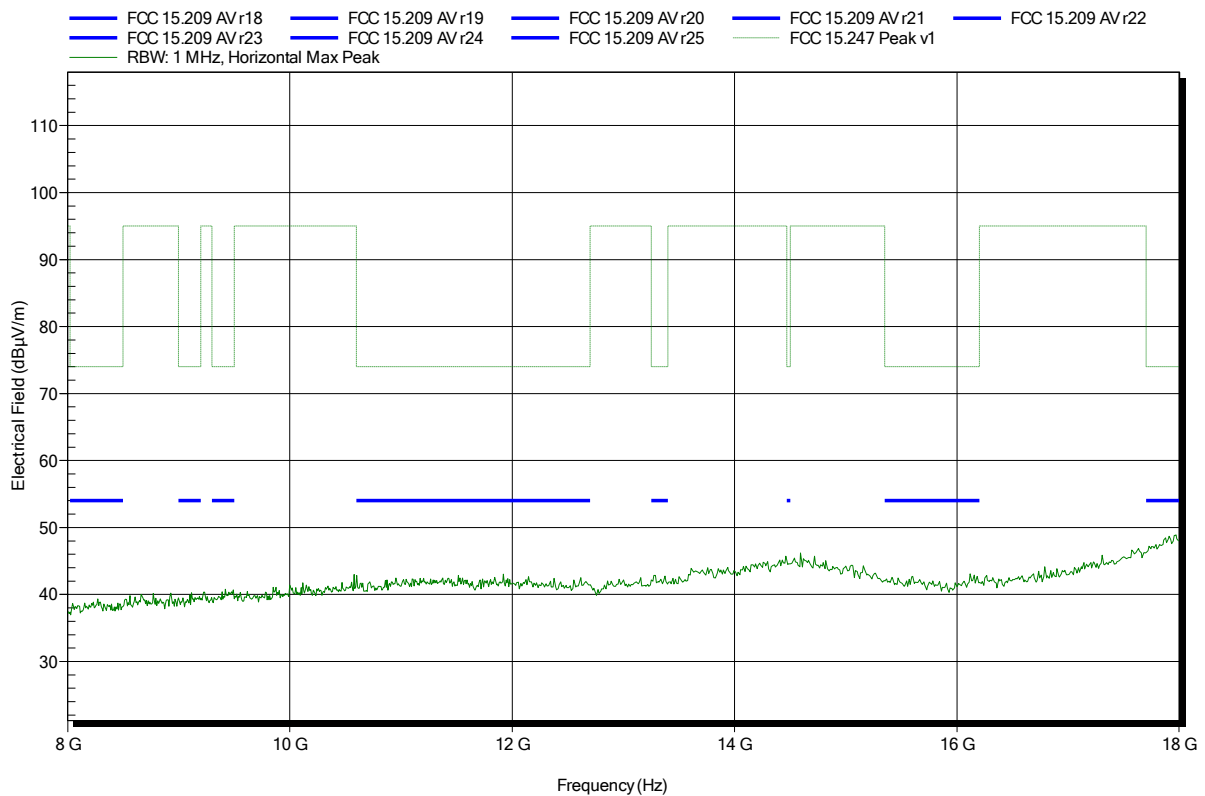


Spurious emissions according to FCC 15.247

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:

Index 50

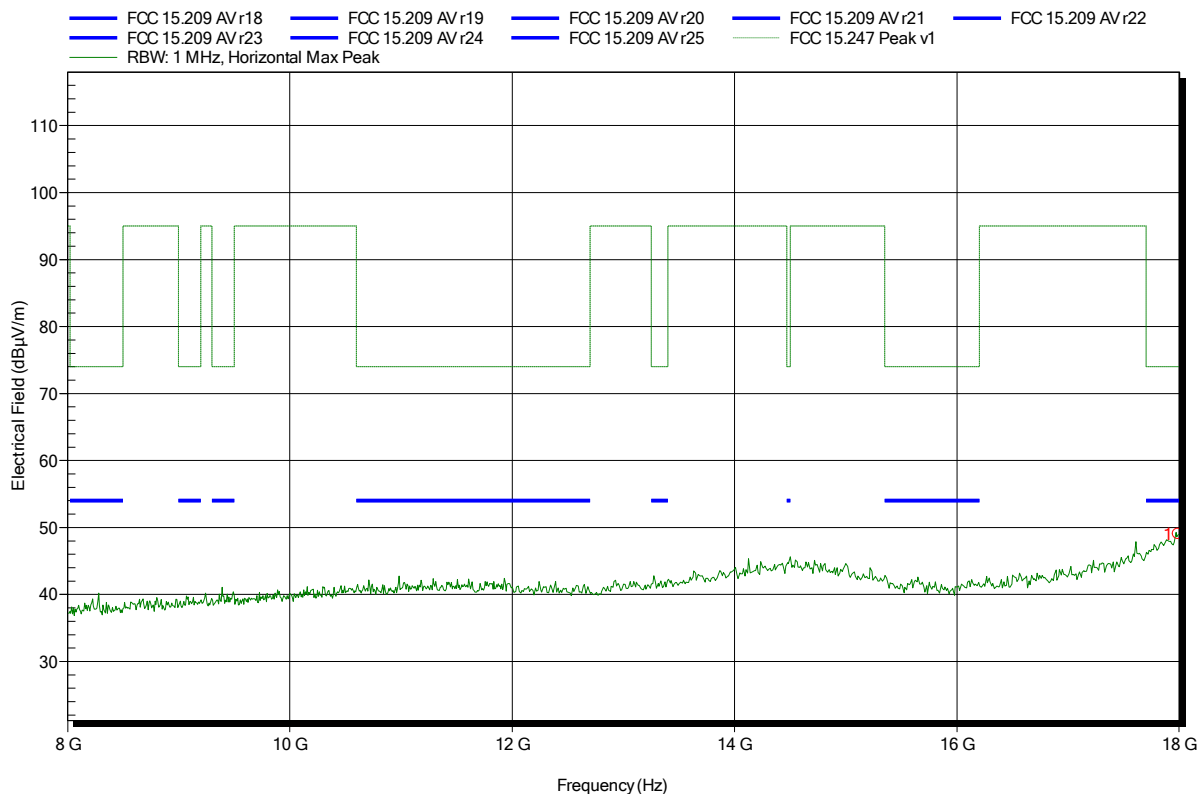


Spurious emissions according to FCC 15.247

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:

Index 44



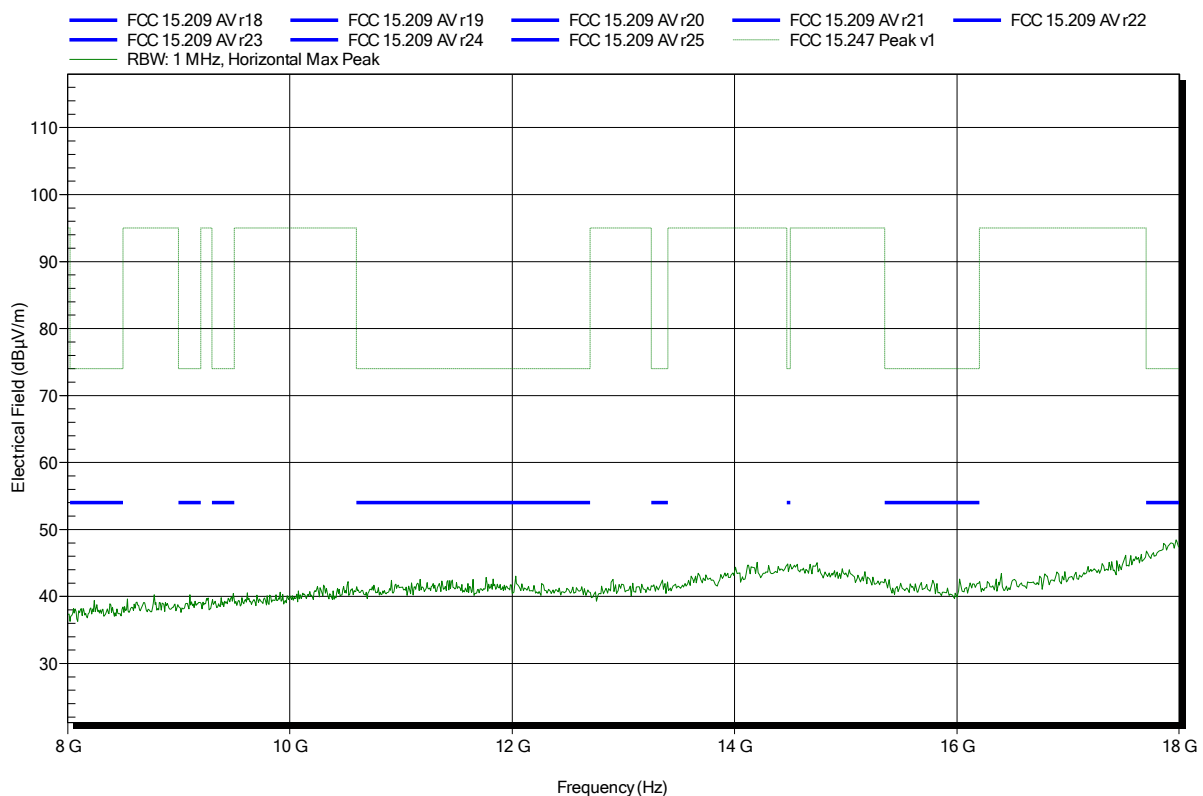
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
17.988 GHz	49.01 dBµV/m	74 dBµV/m	-24.99 dB	Pass

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:

Index 48

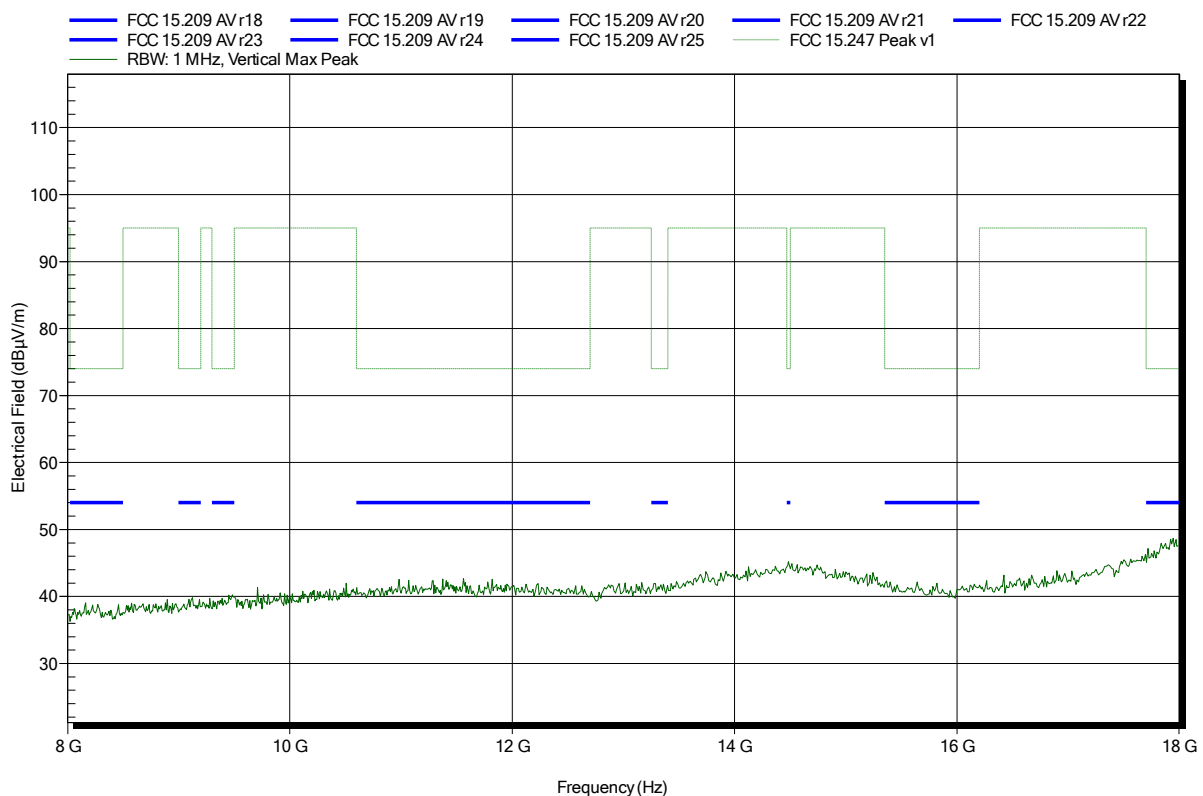


Spurious emissions according to FCC 15.247

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:

Index 52

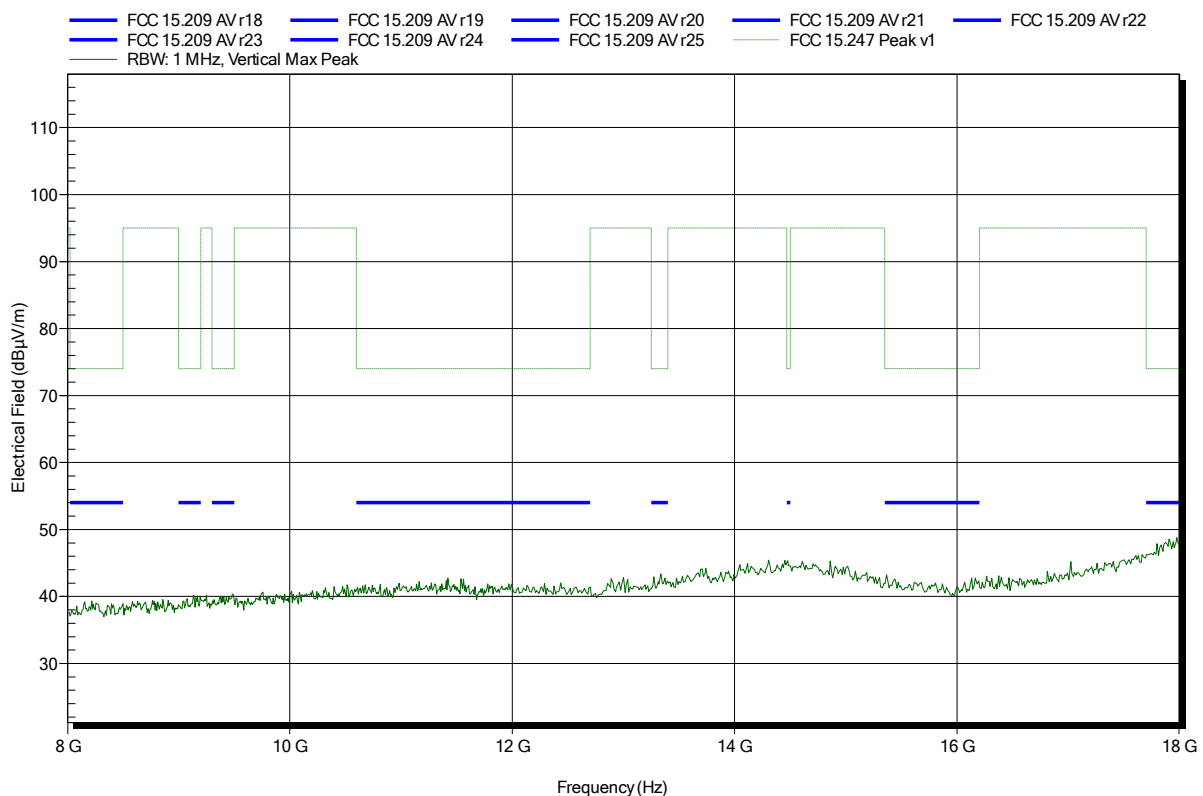


Spurious emissions according to FCC 15.247

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:

Index 42

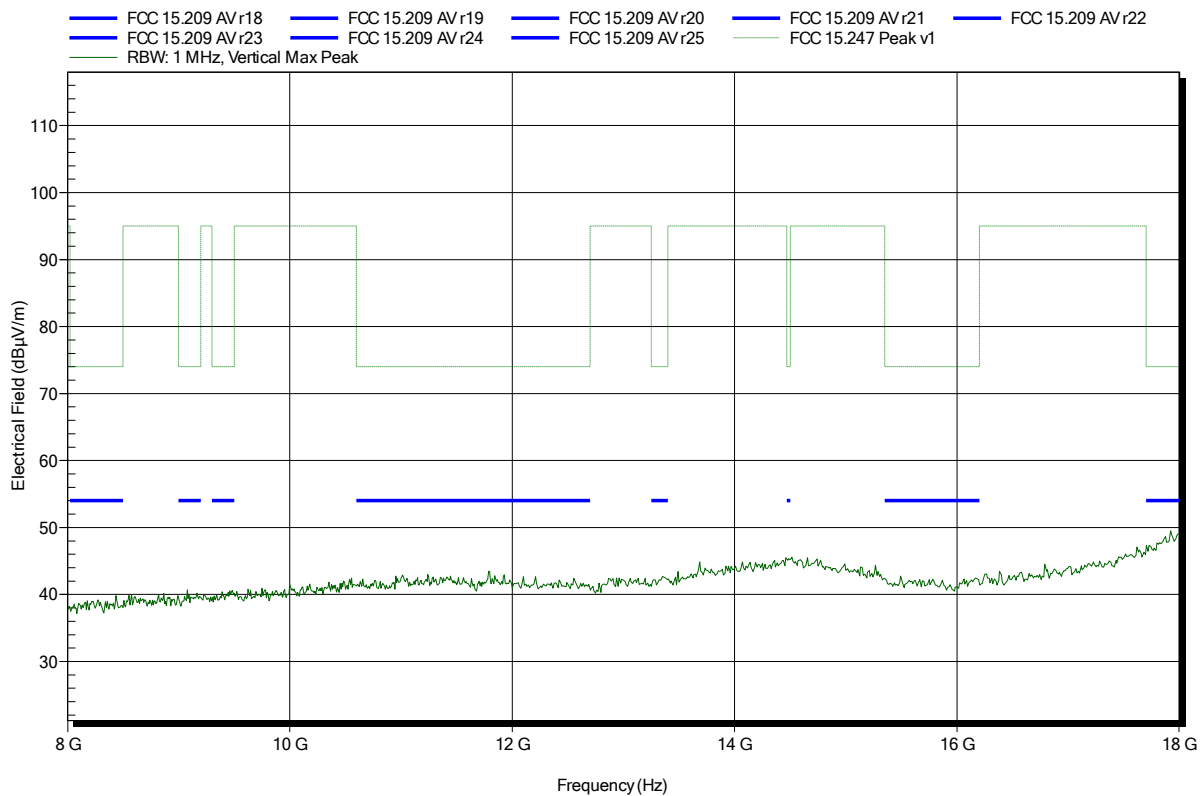


Spurious emissions according to FCC 15.247

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:

Index 46

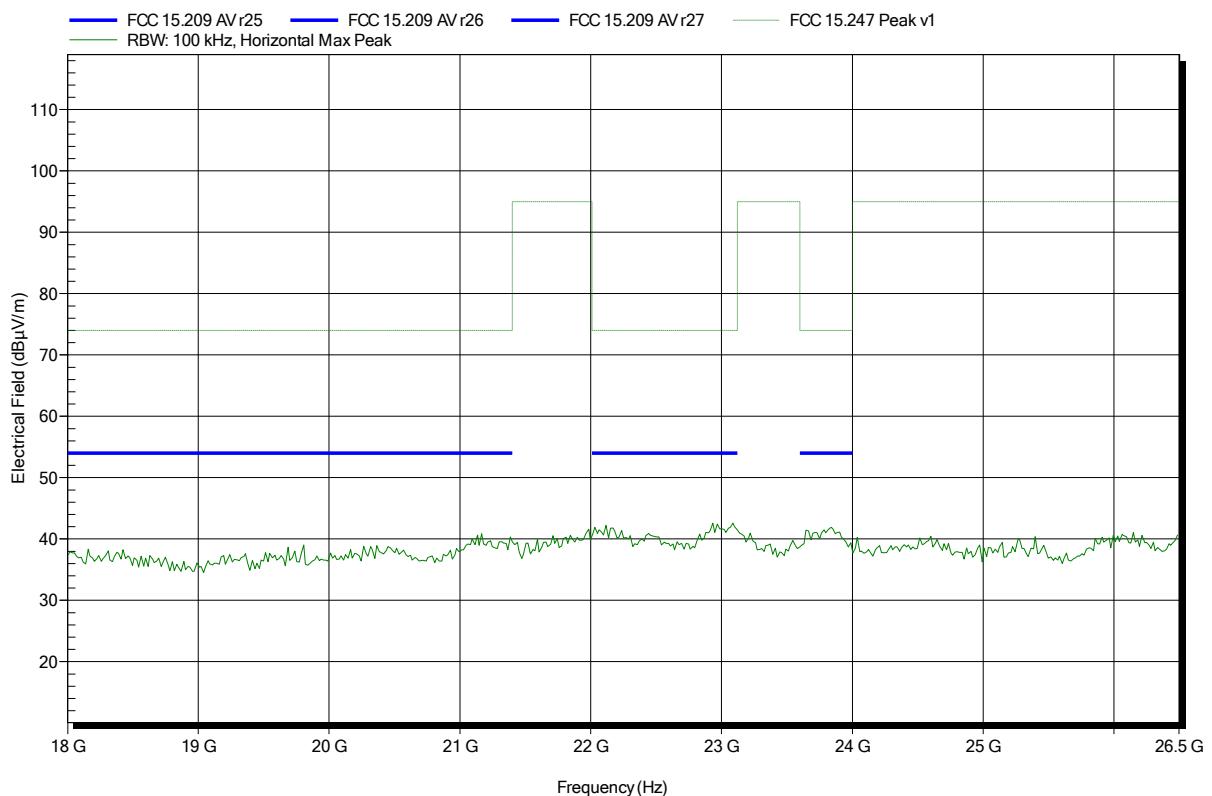


Spurious emissions according to FCC 15.247

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:

Index 51

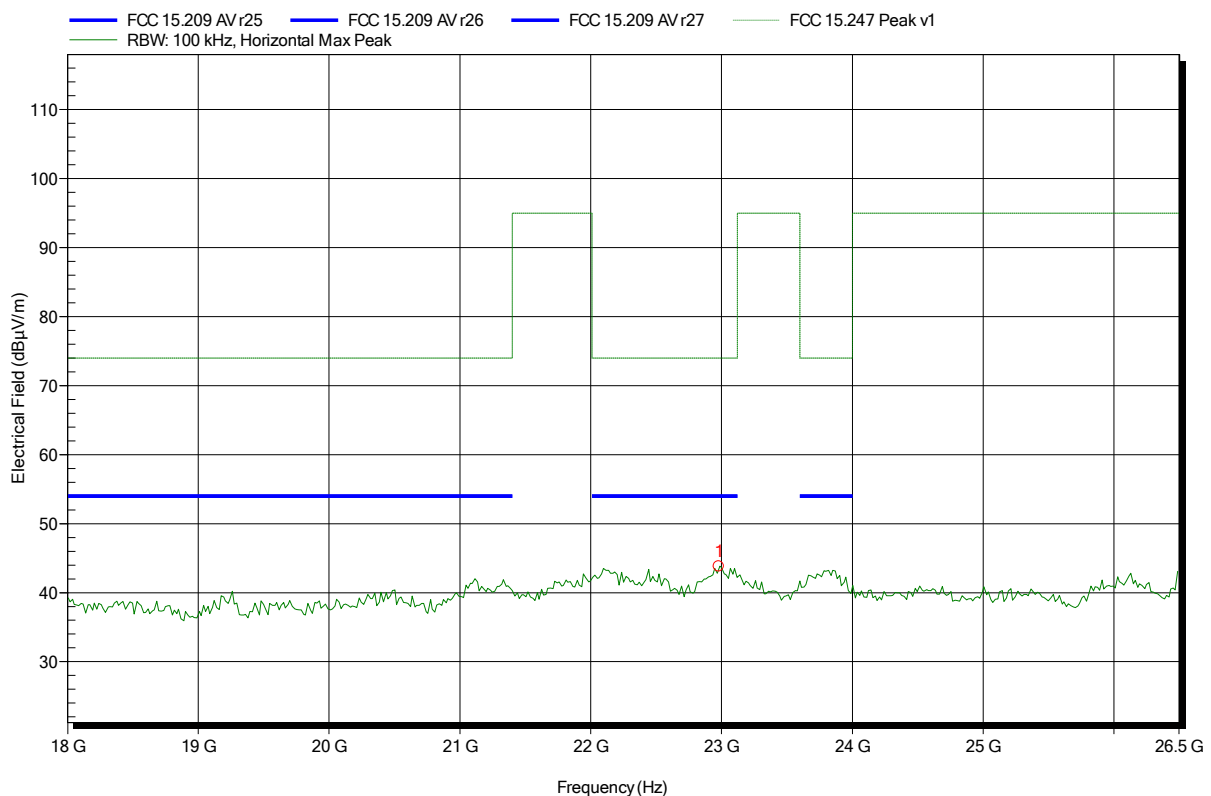


Spurious emissions according to FCC 15.247

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; Flow
 Test Date: 2014-09-24
 Note:

Index 45



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

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

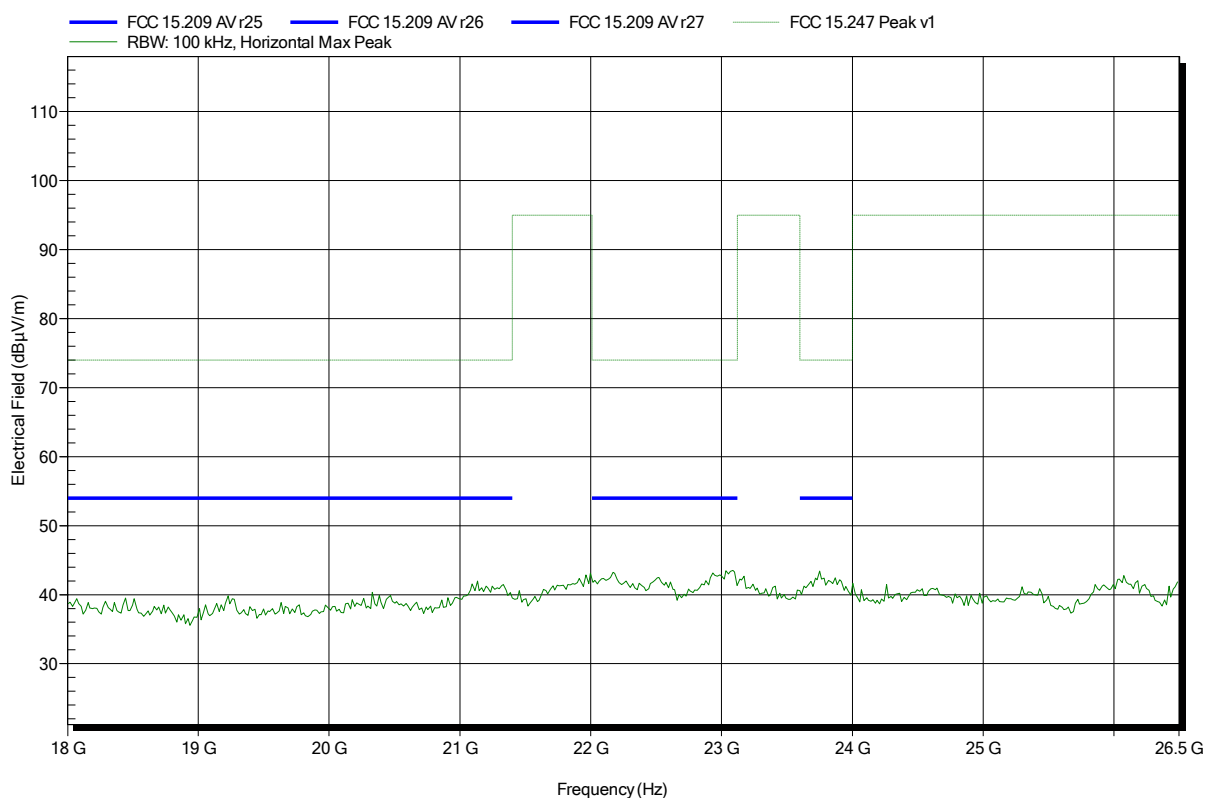
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m
 Mode: BASIC RATE; Fmid
 Test Date: 2014-09-24
 Note:

Index 49

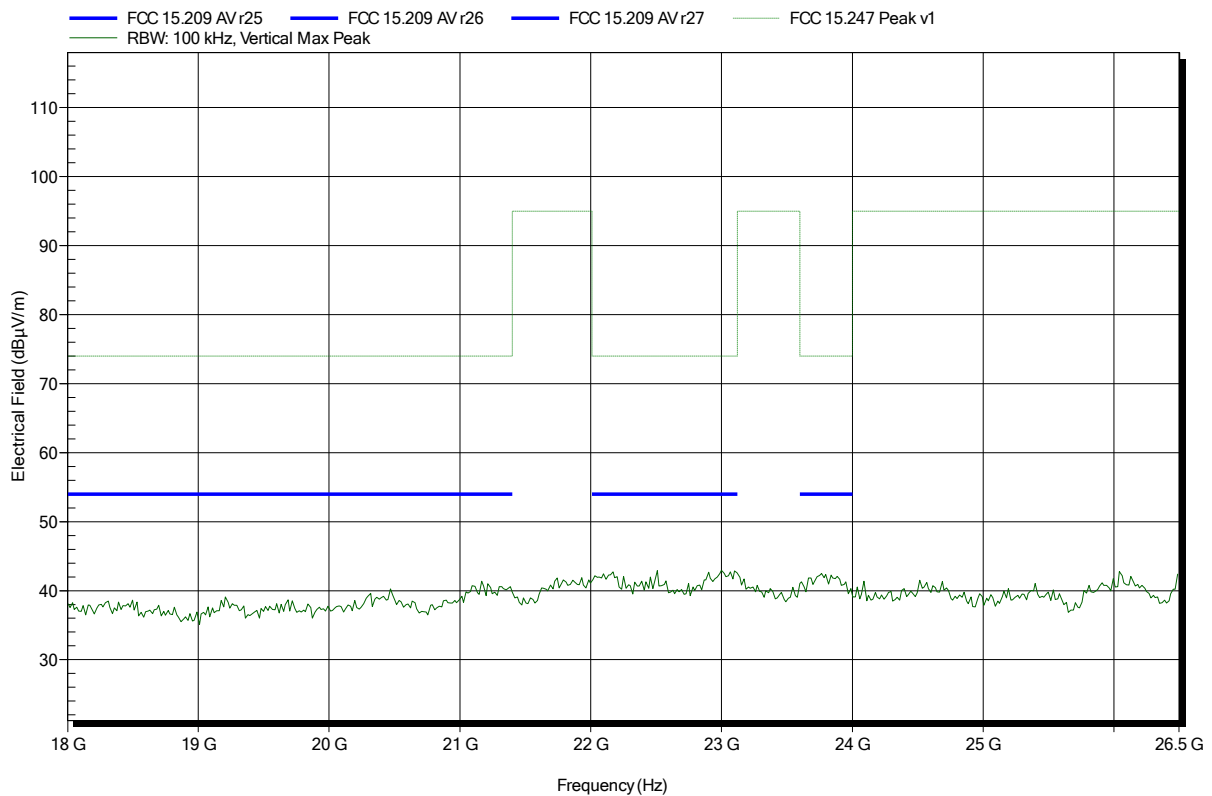


Spurious emissions according to FCC 15.247

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:

Index 53

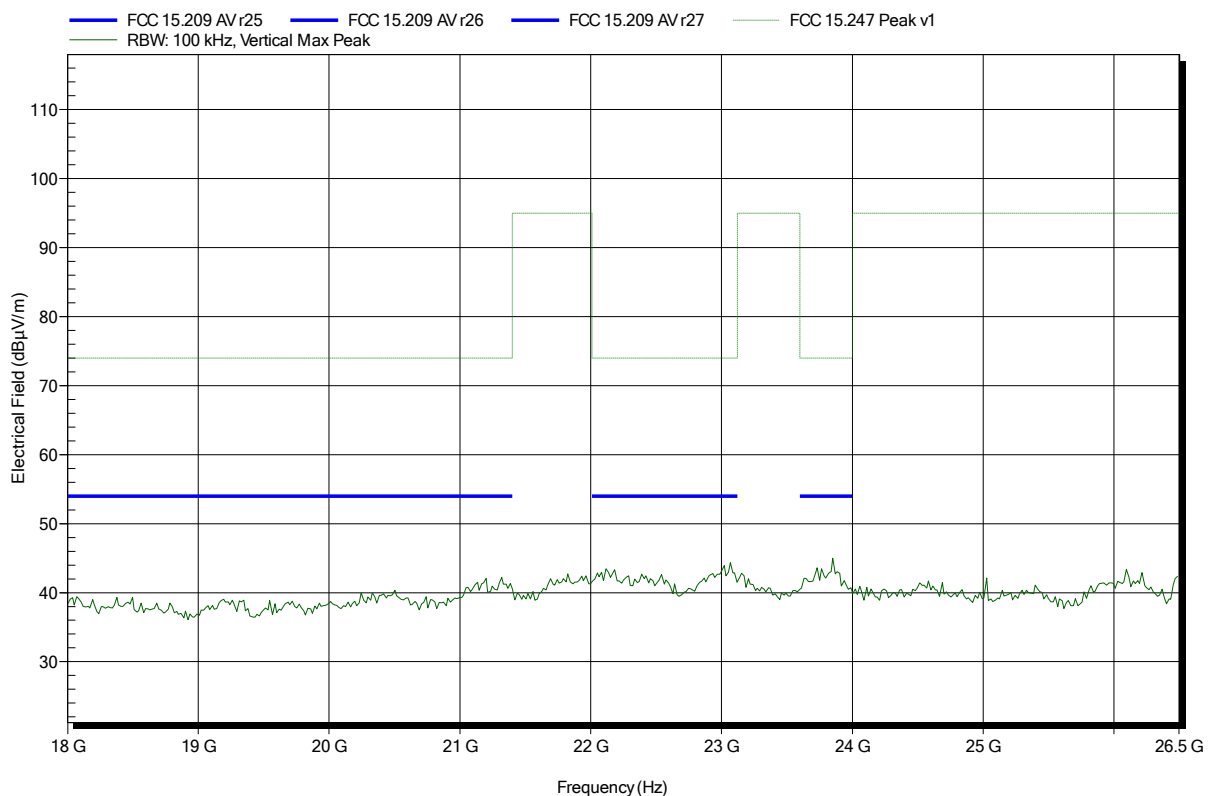


Spurious emissions according to FCC 15.247

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; Flow
 Test Date: 2014-09-24
 Note:

Index 43

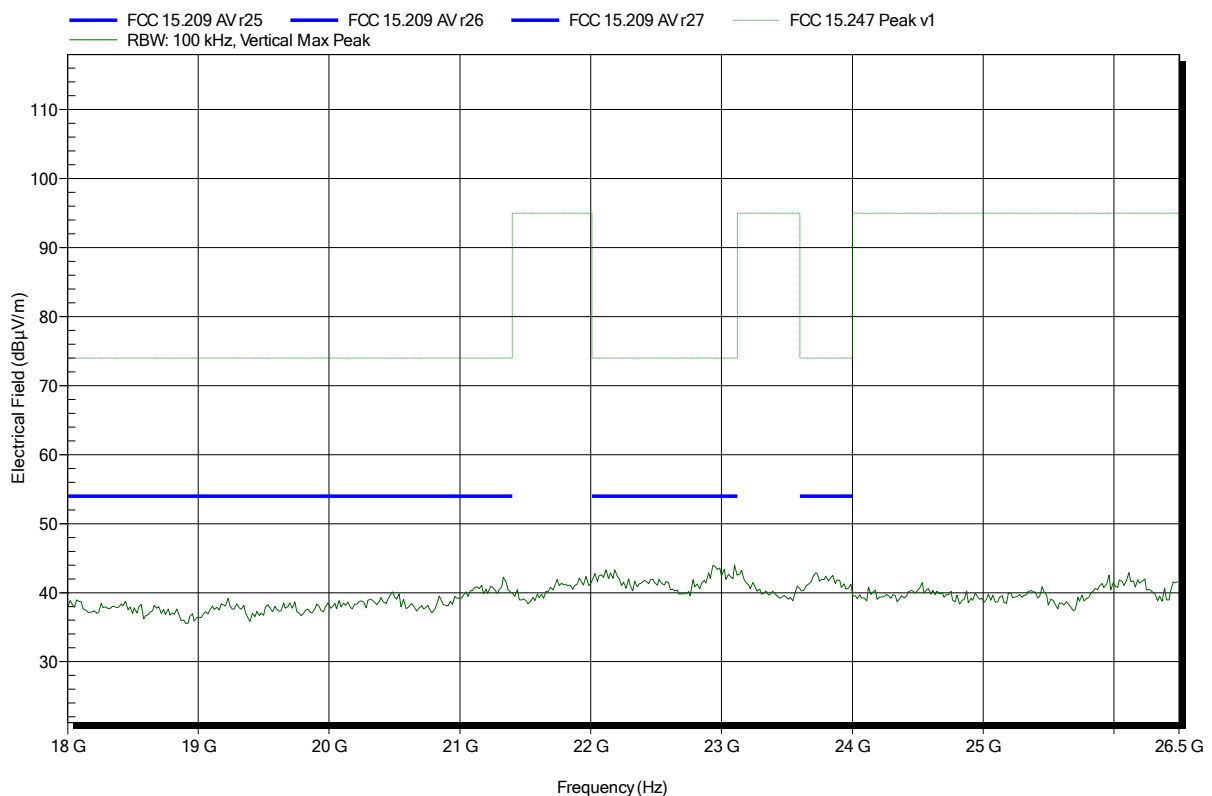


Spurious emissions according to FCC 15.247

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:

Index 47

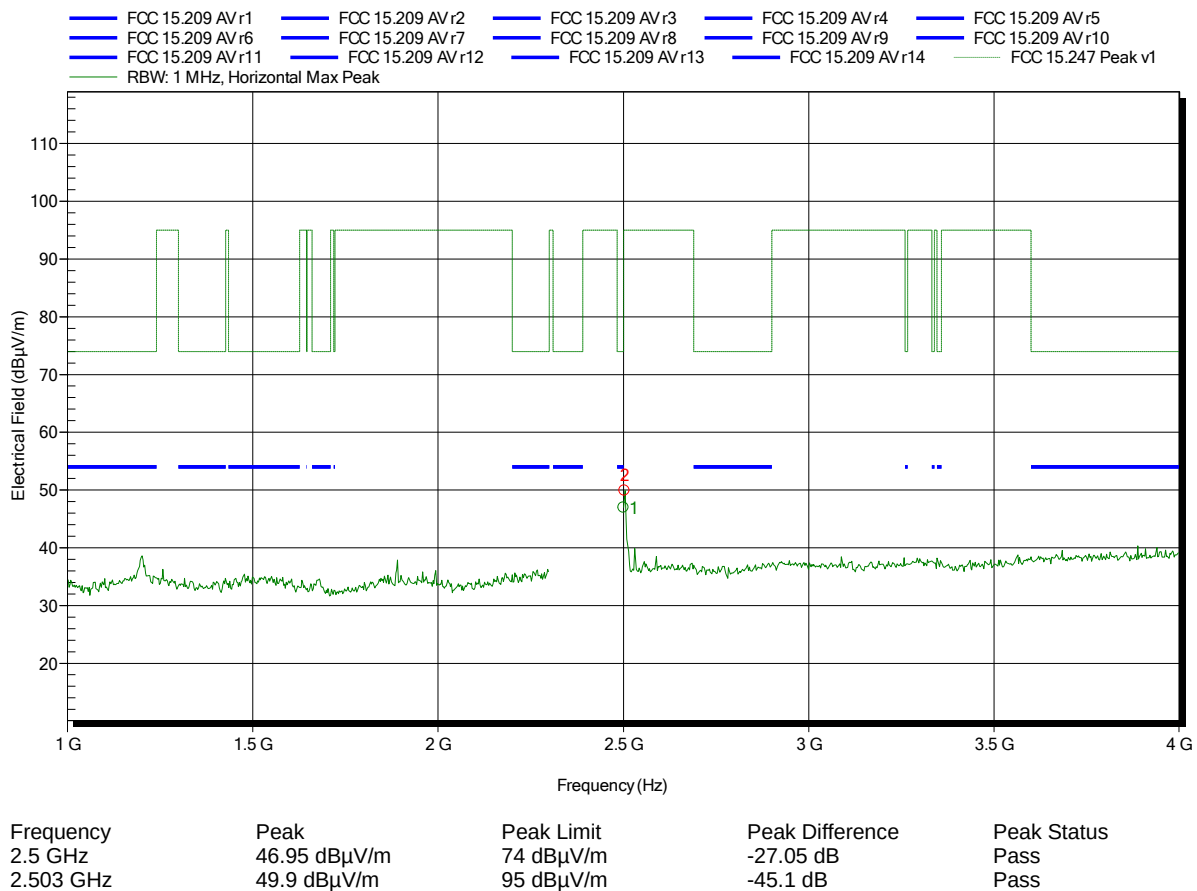


Spurious emissions according to FCC 15.247

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:

Index 24

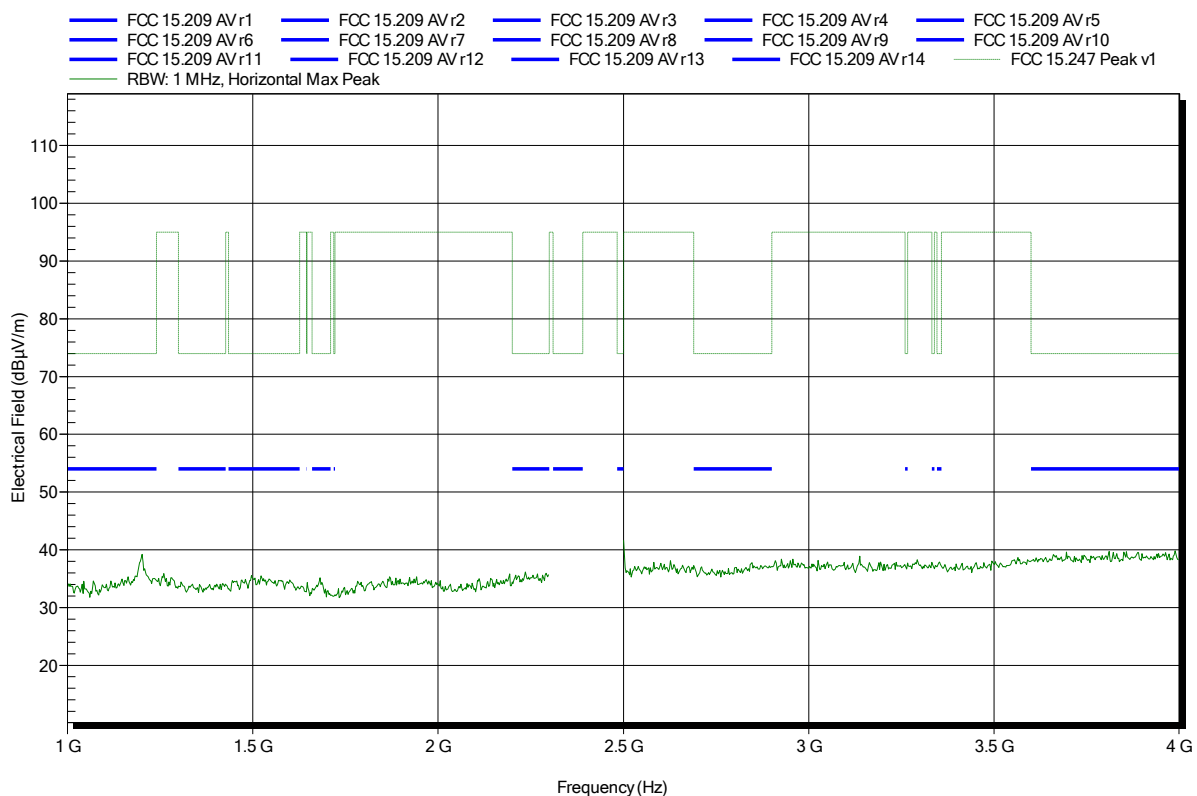


Spurious emissions according to FCC 15.247

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: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; EDR Flow
 Test Date: 2014-09-23
 Note:

Index 31

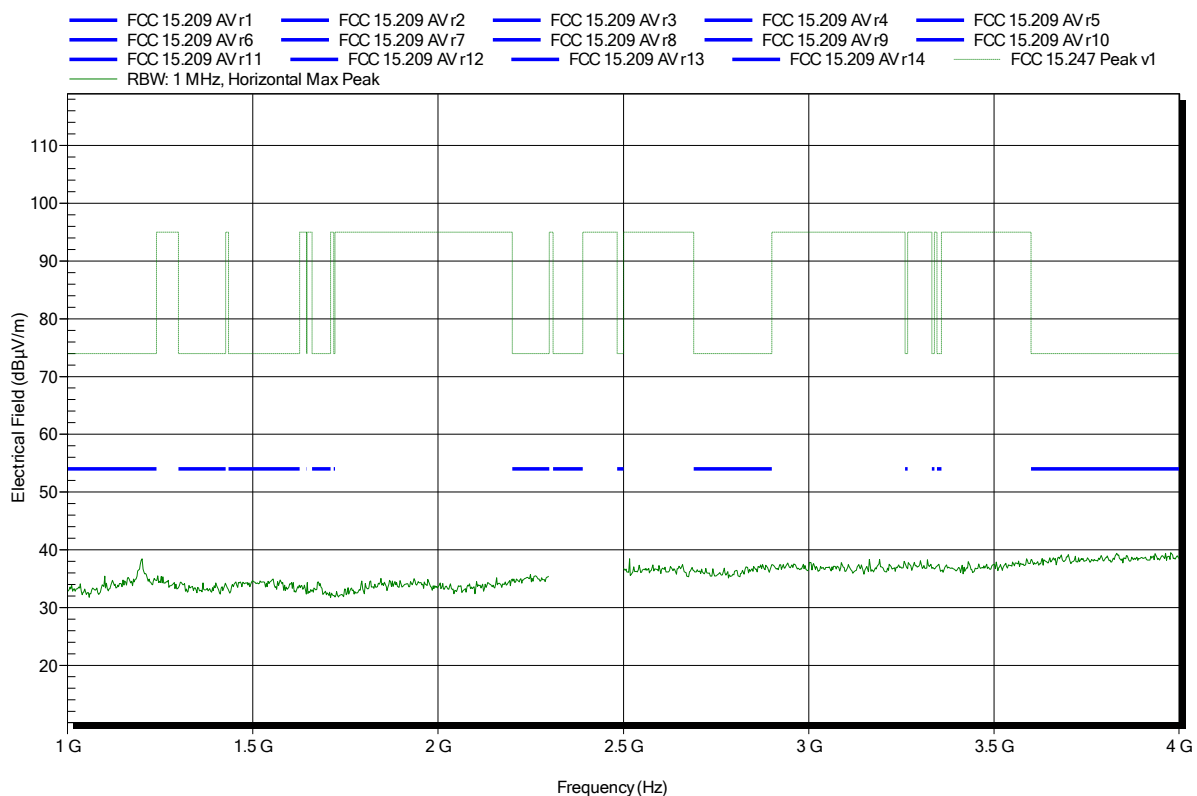


Spurious emissions according to FCC 15.247

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: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; EDR Fmid
 Test Date: 2014-09-22
 Note:

Index 27

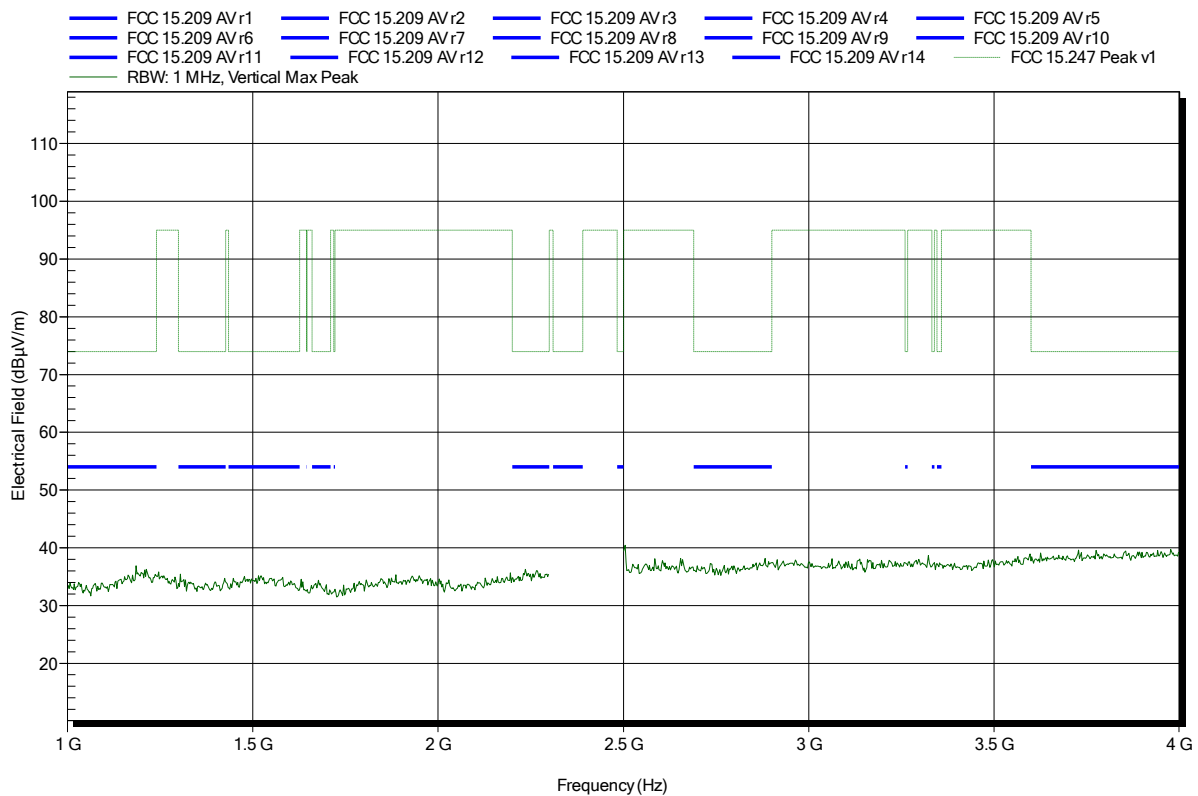


Spurious emissions according to FCC 15.247

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:

Index 21

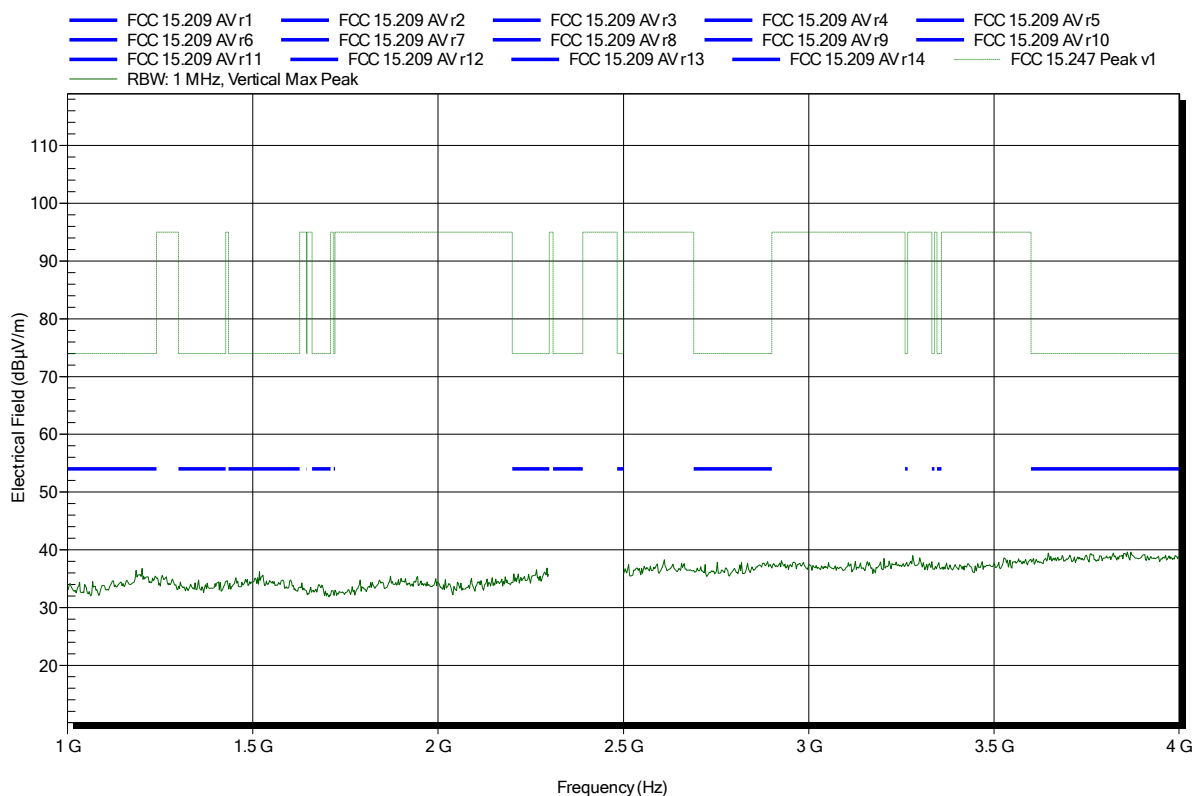


Spurious emissions according to FCC 15.247

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: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; EDR Flow
 Test Date: 2014-09-23
 Note:

Index 34

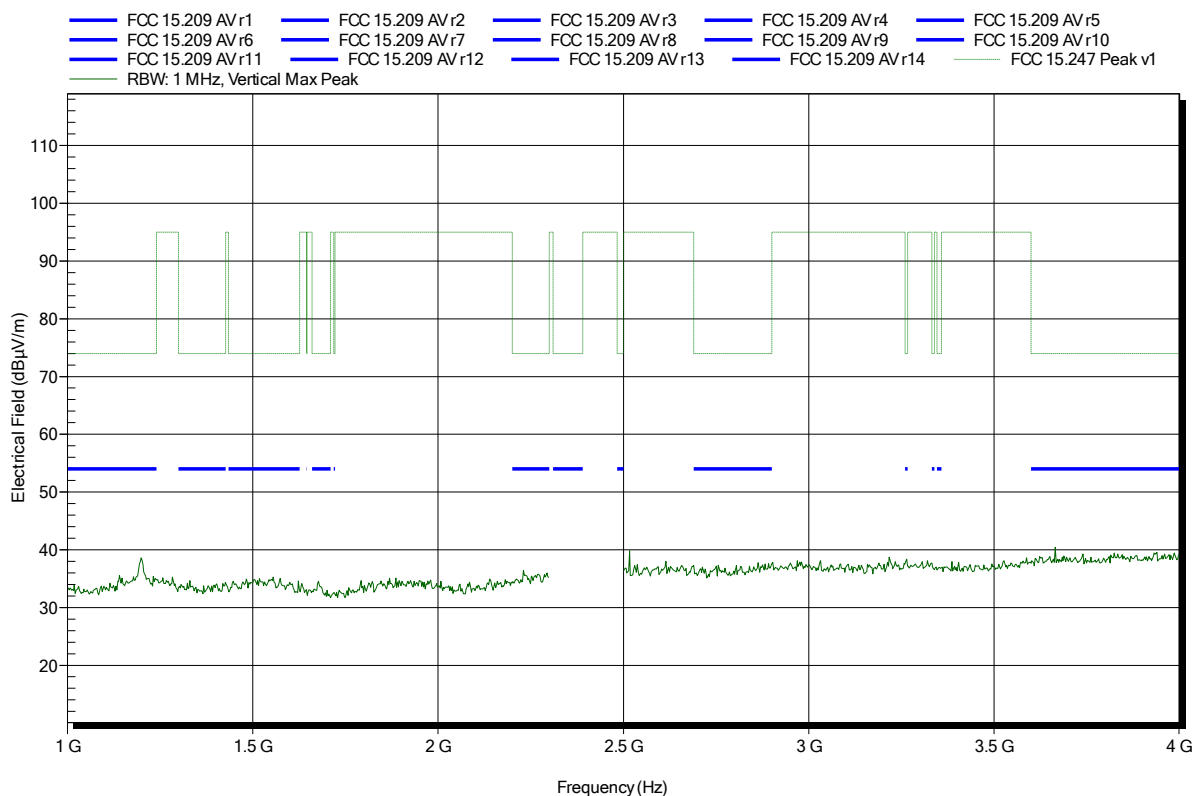


Spurious emissions according to FCC 15.247

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:

Index 29

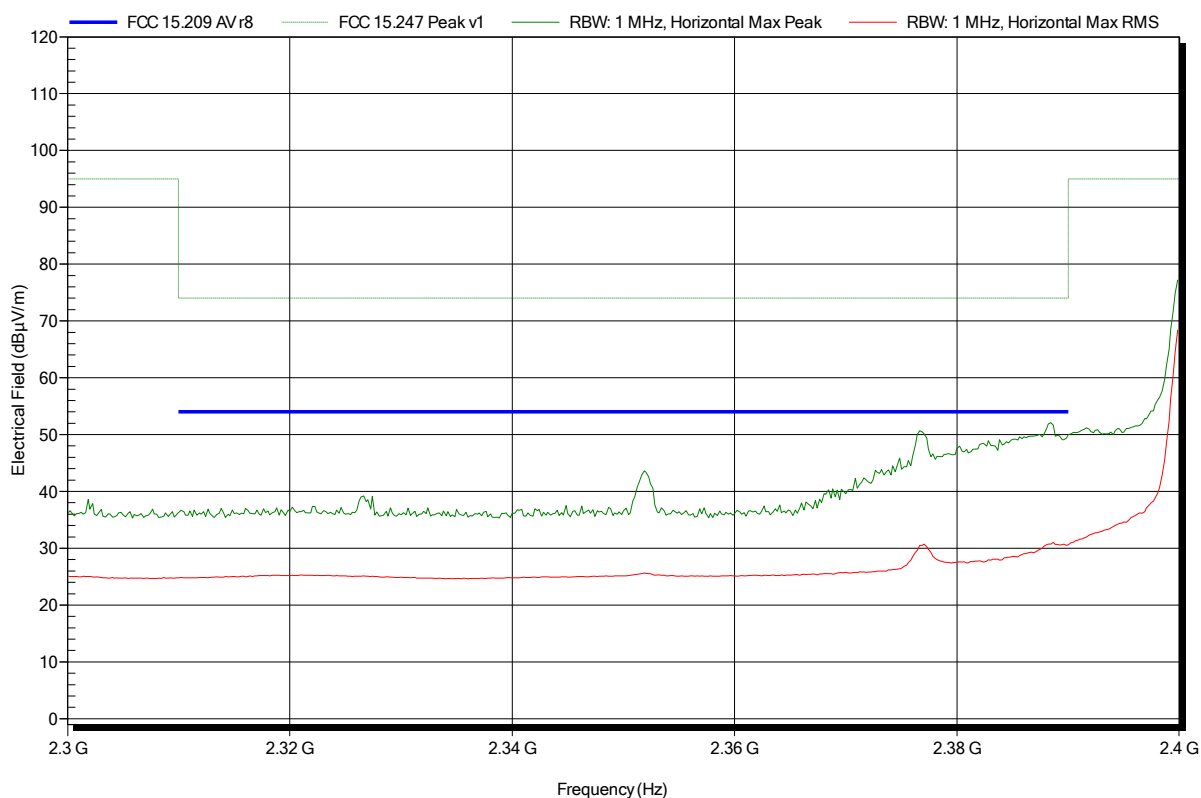


Spurious emissions according to FCC 15.247

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

Index 32

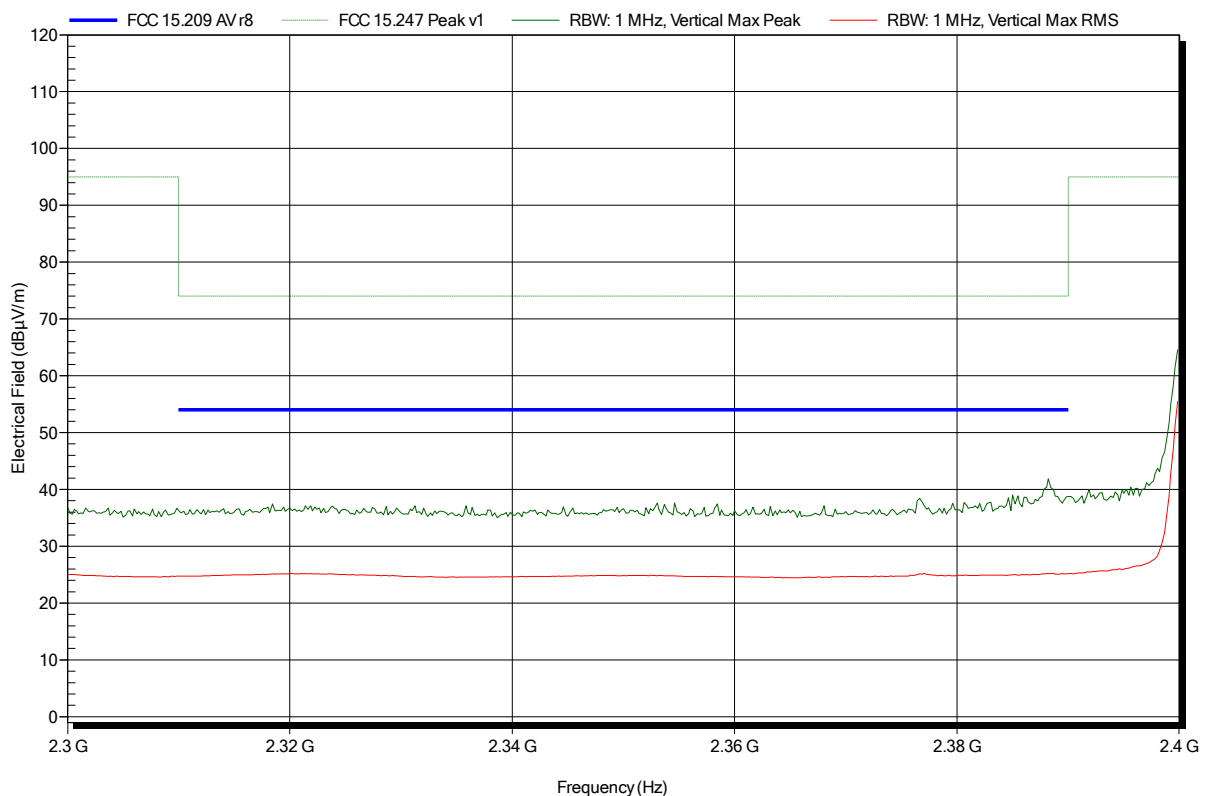


Spurious emissions according to FCC 15.247

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

Index 35

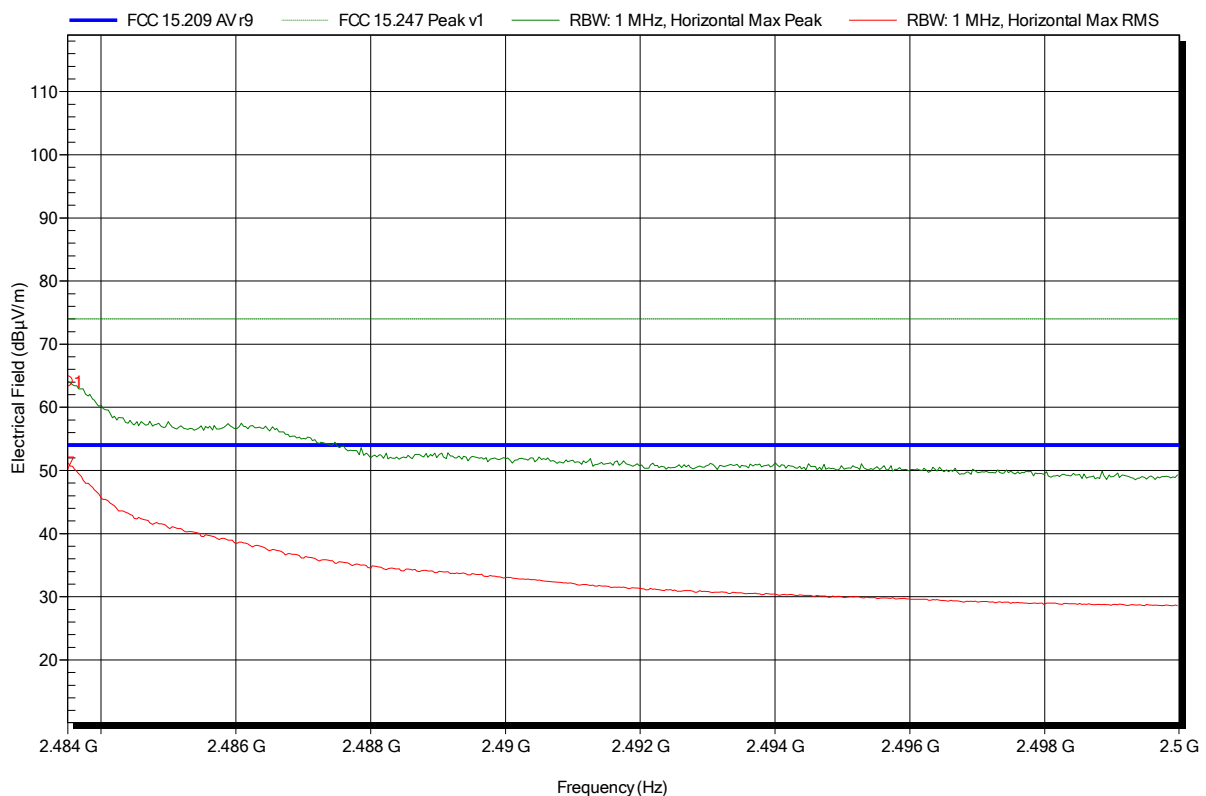


Spurious emissions according to FCC 15.247

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

Index 25



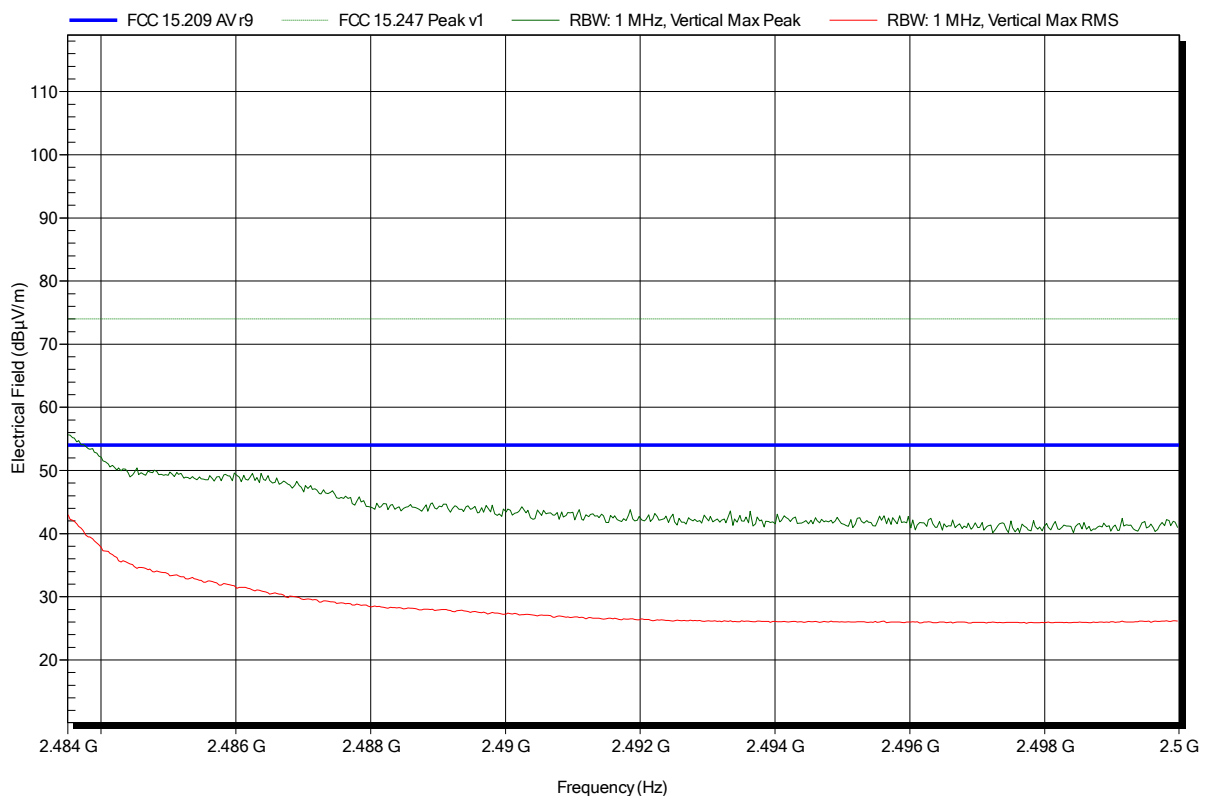
Frequency 2.4835 GHz	Peak 64.09 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -9.91 dB	Peak Status Pass
Frequency 2.4835 GHz	RMS 51.2 dBμV/m	RMS Limit 54 dBμV/m	RMS Difference -2.8 dB	RMS Status Pass

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

Index 22

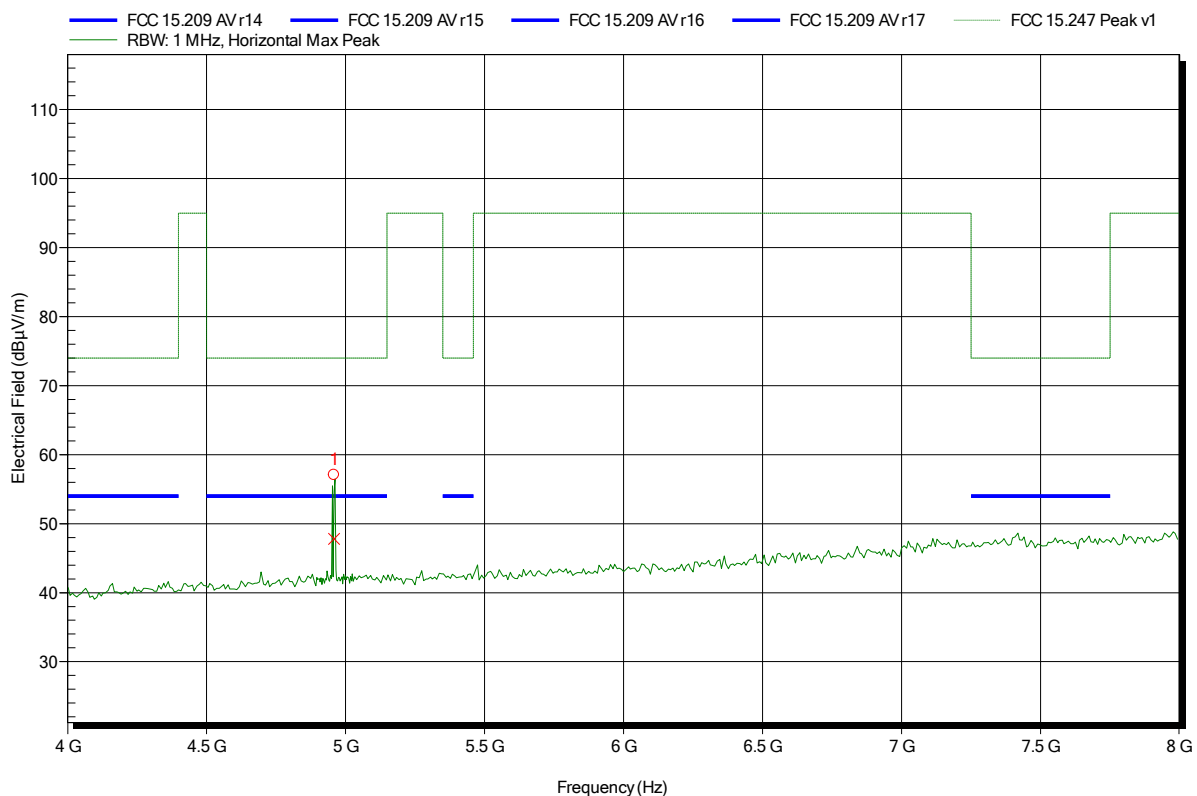


Spurious emissions according to FCC 15.247

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:

Index 26



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

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

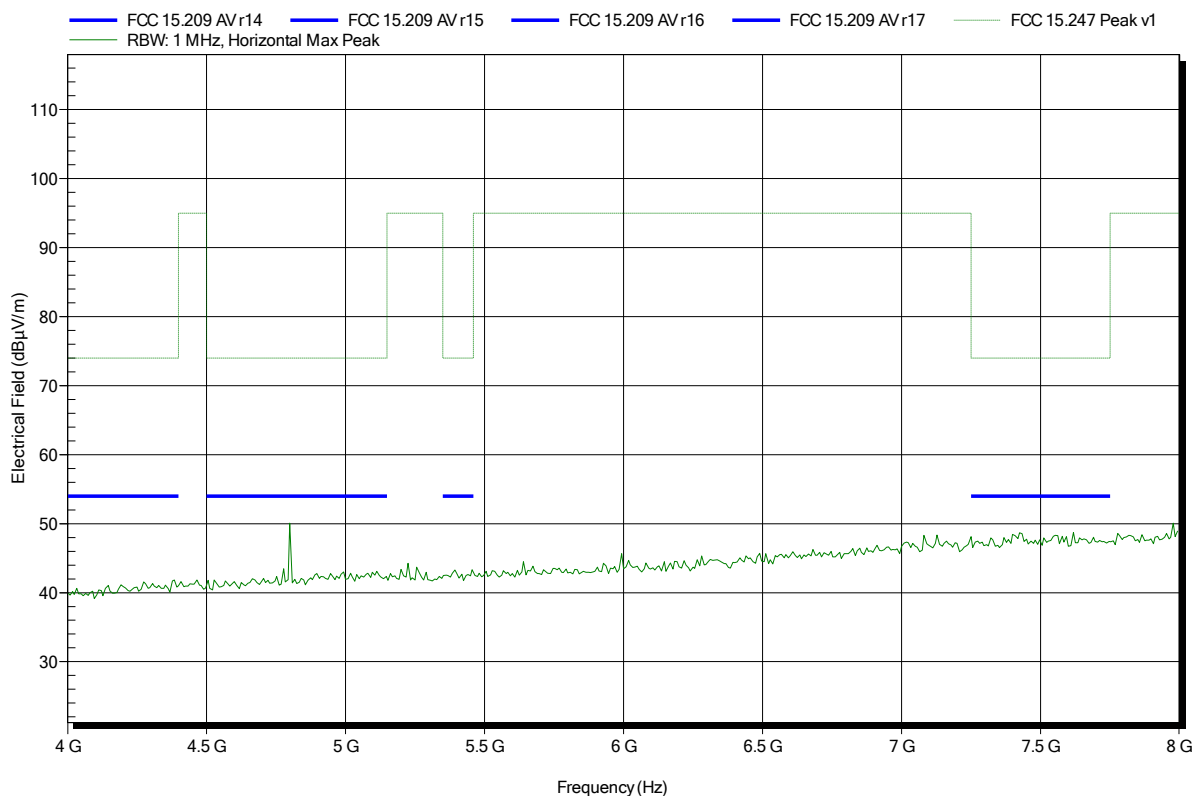
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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, Horizontal
 Measurement distance: 3 m
 Mode: TX; EDR Flow
 Test Date: 2014-09-23
 Note:

Index 33

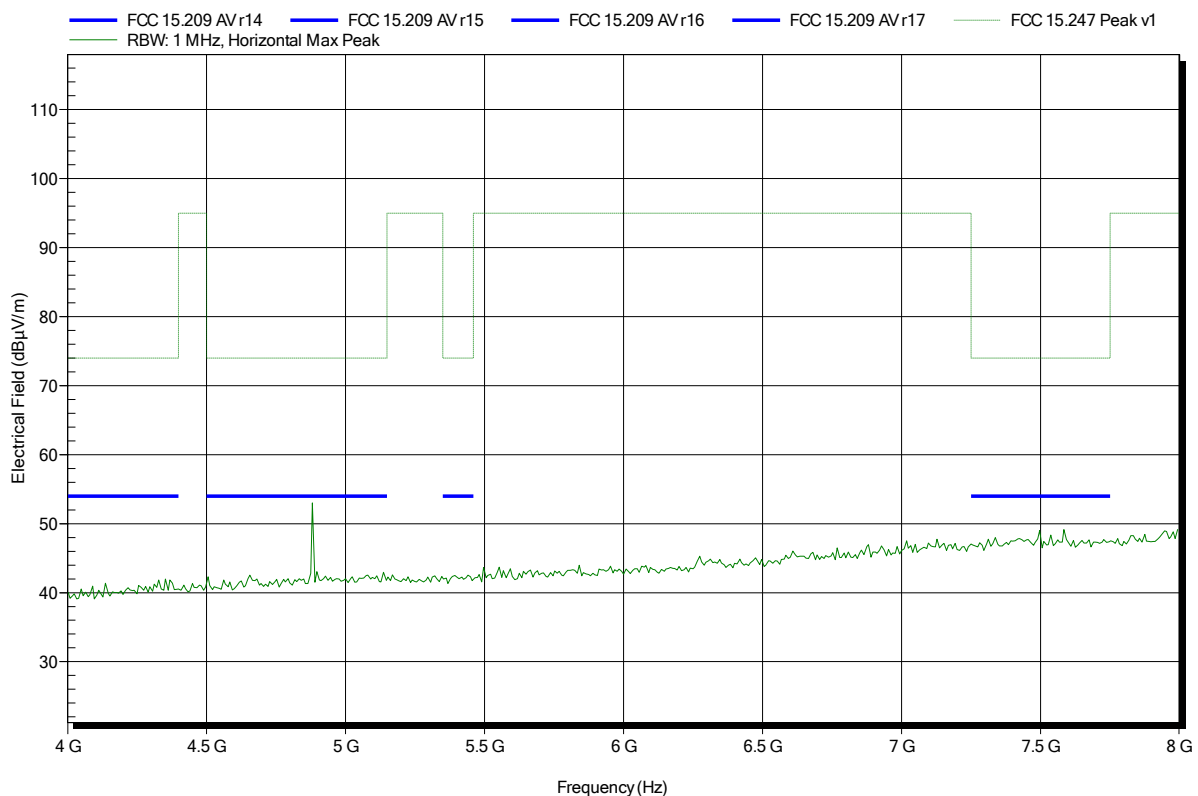


Spurious emissions according to FCC 15.247

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:

Index 28

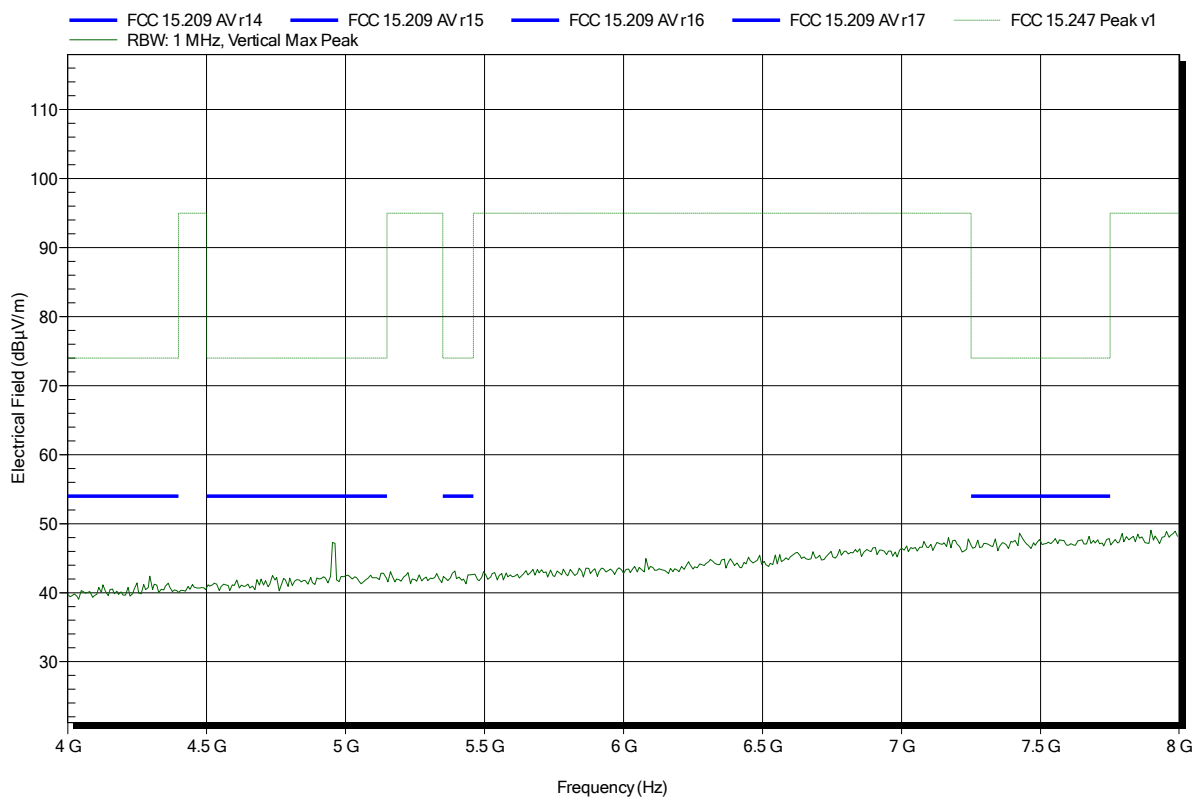


Spurious emissions according to FCC 15.247

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:

Index 23

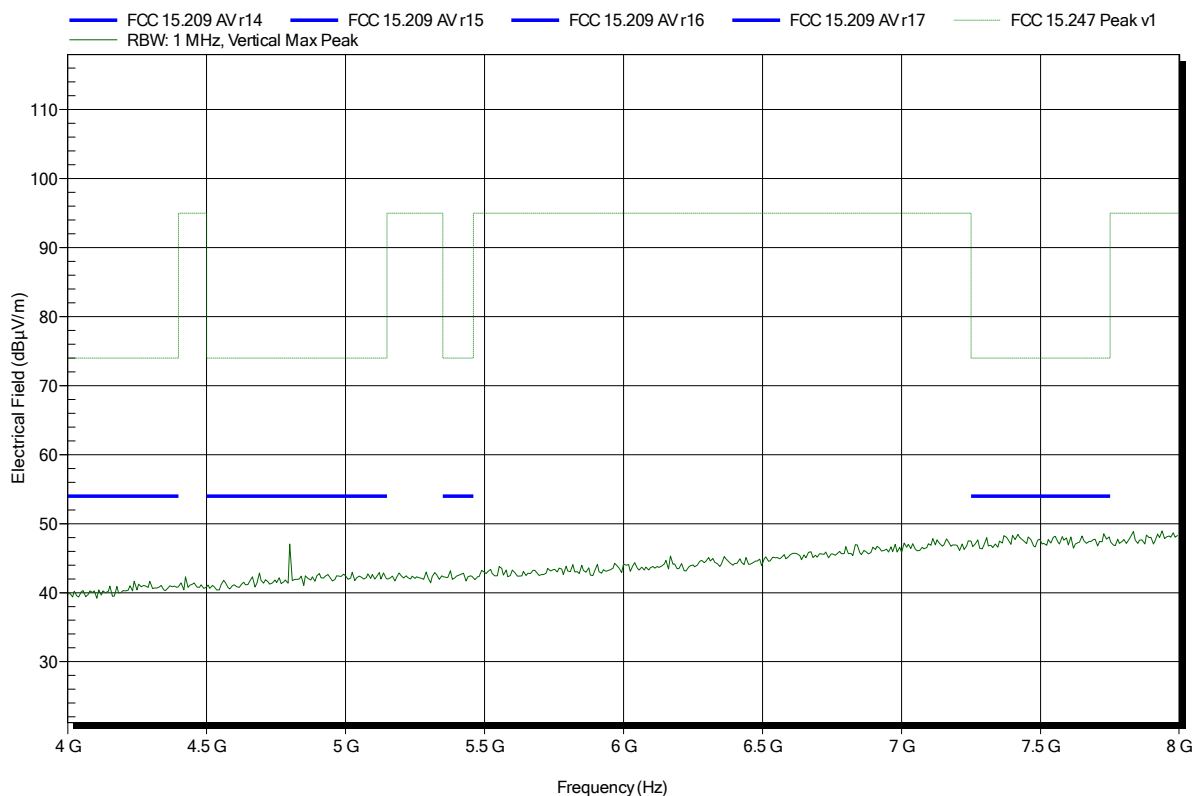


Spurious emissions according to FCC 15.247

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:

Index 36

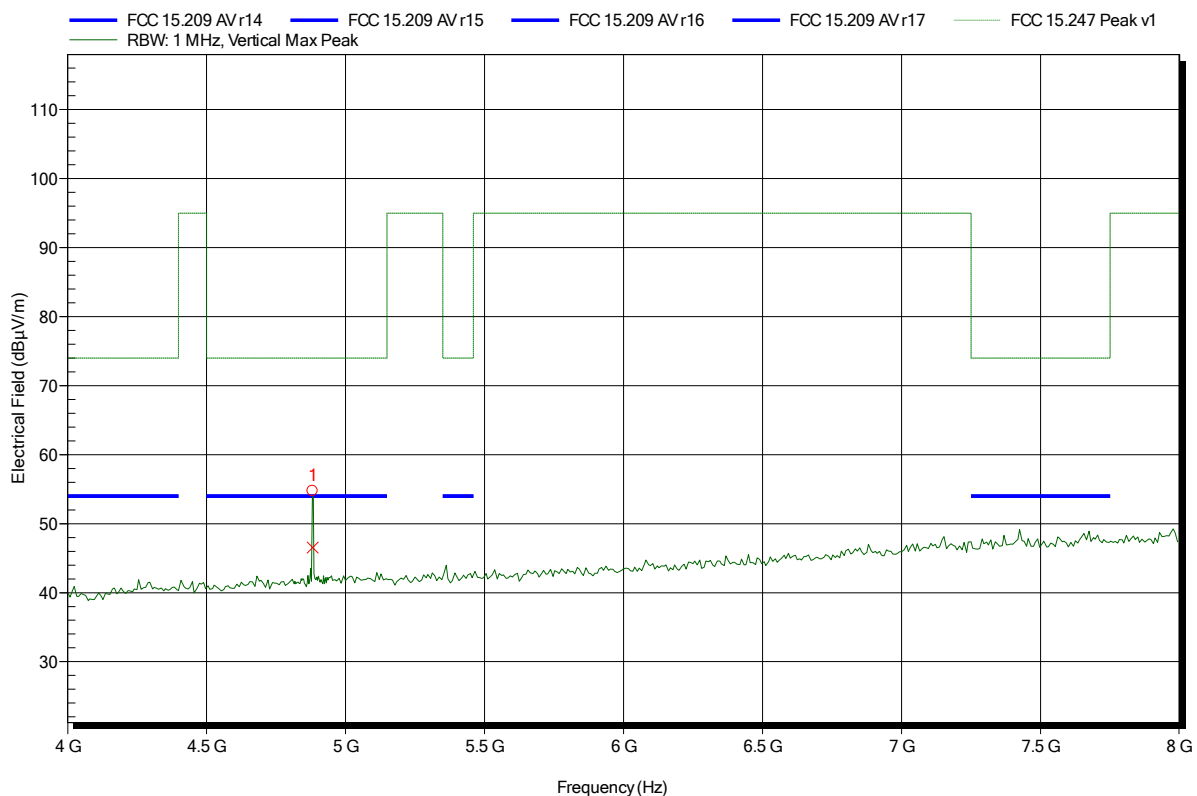


Spurious emissions according to FCC 15.247

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:

Index 30



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

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

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

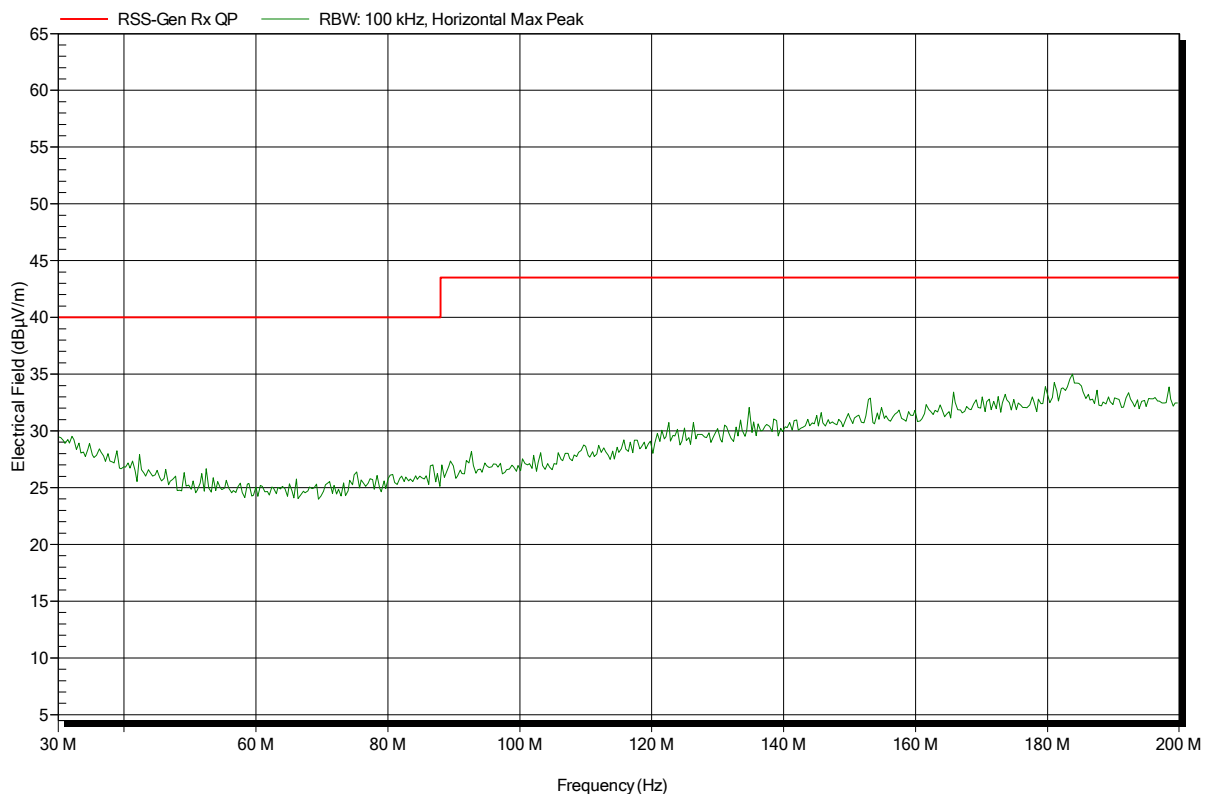
ANNEX B Receiver radiated spurious emissions

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:	

Index 42

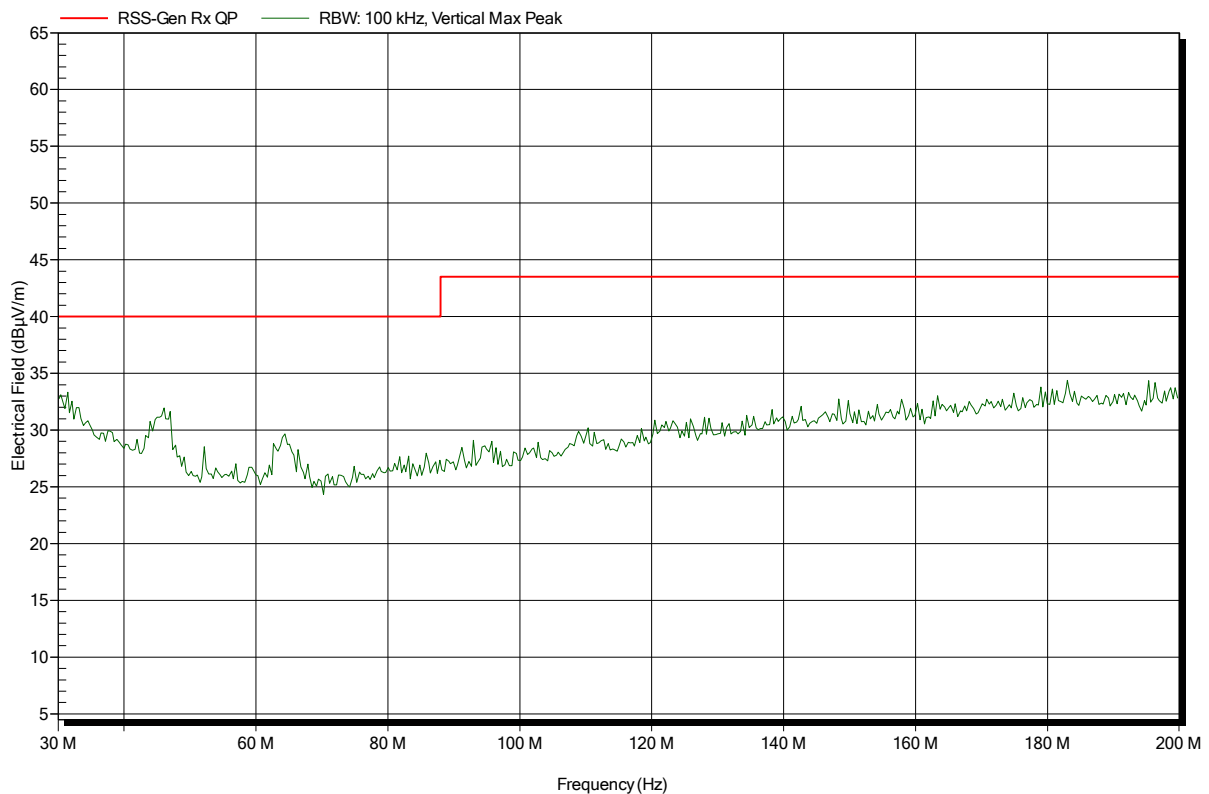


Spurious emissions according to RSS-GEN

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:

Index 41

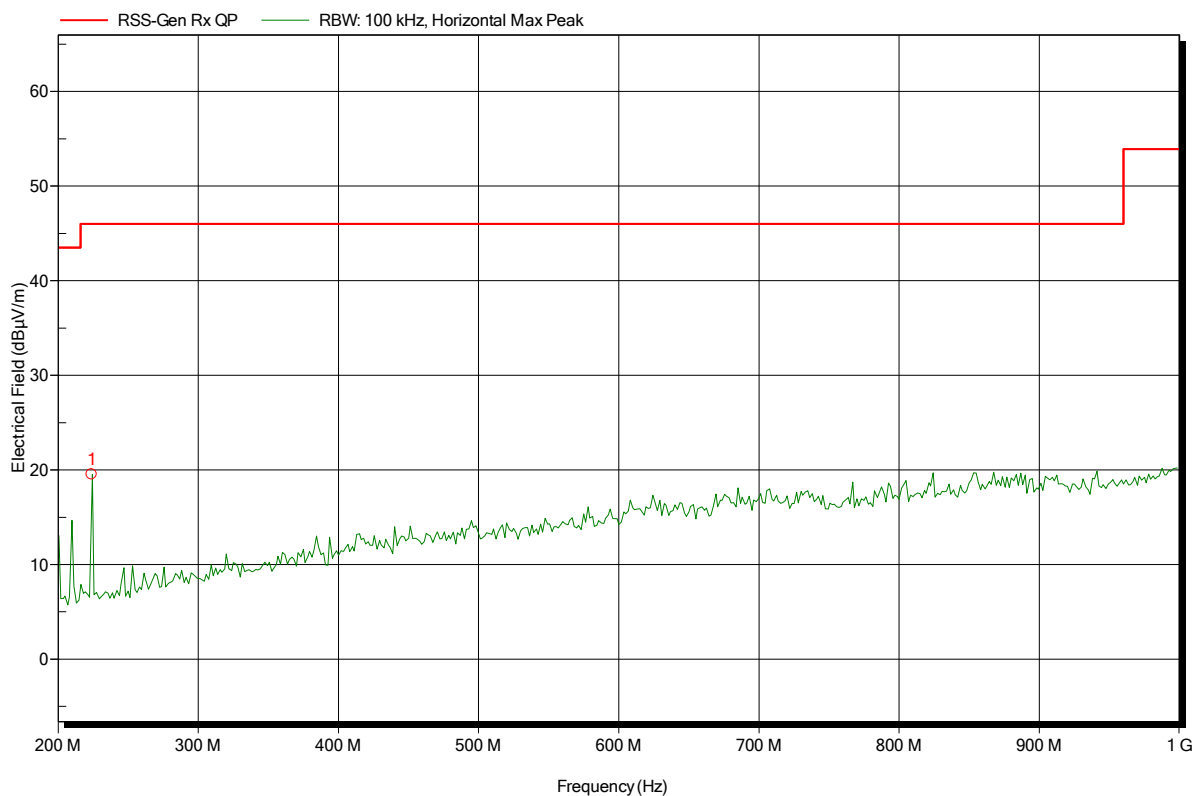


Spurious emissions according to RSS-GEN

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:

Index 43



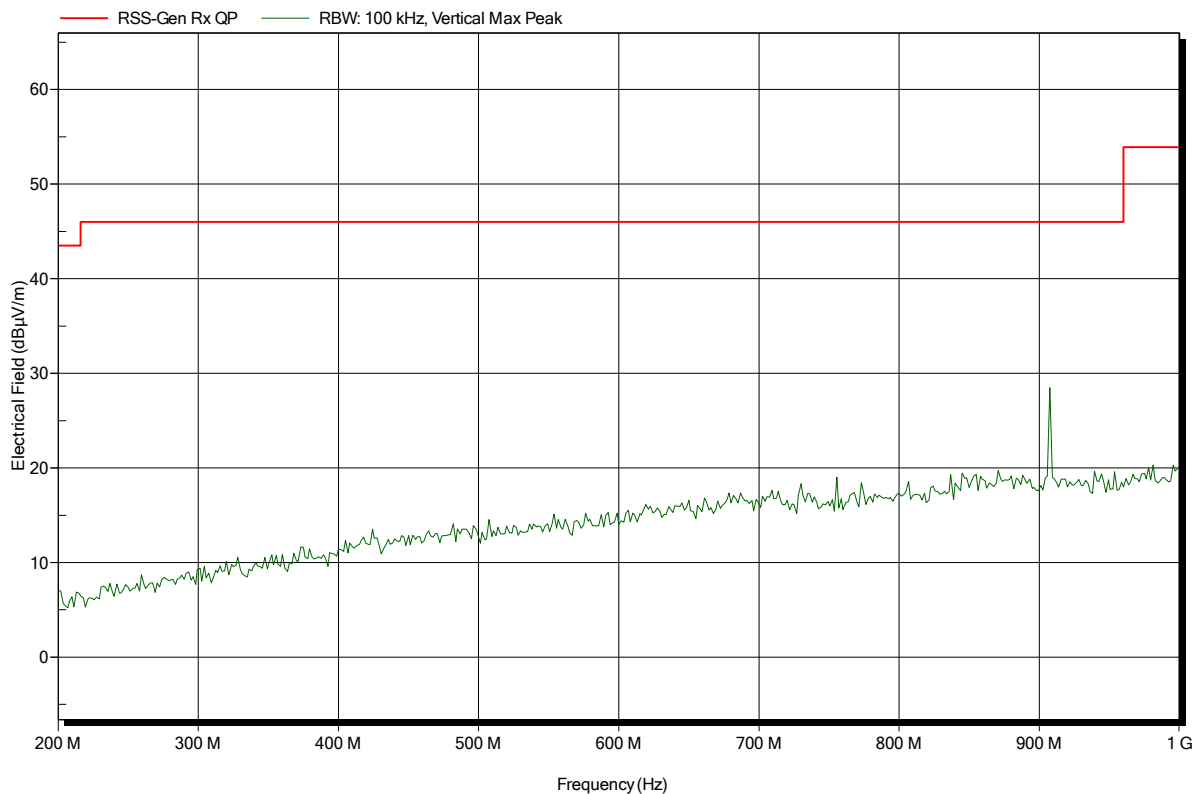
Frequency	Peak	Peak Limit	Peak Difference	Status
224 MHz	19.51 dBµV/m	46 dBµV/m	-26.49 dB	Pass

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:

Index 44

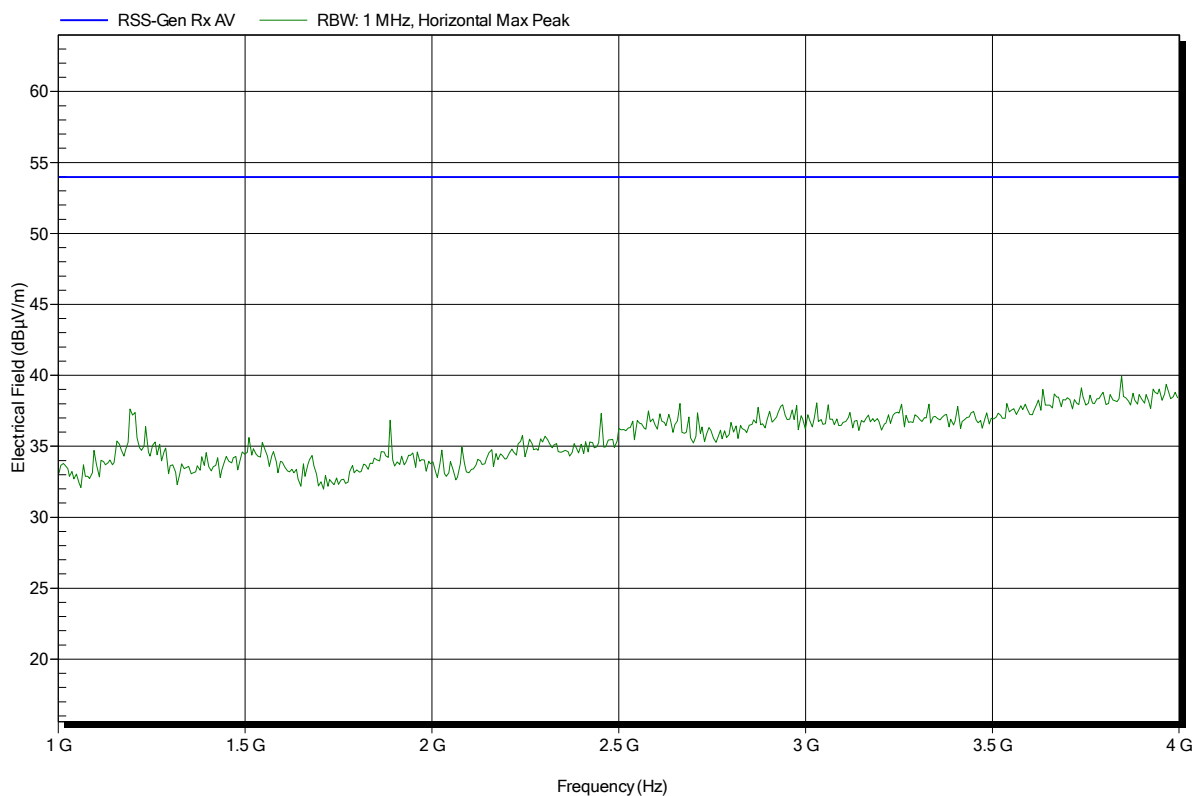


Spurious emissions according to RSS-GEN

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:

Index 37

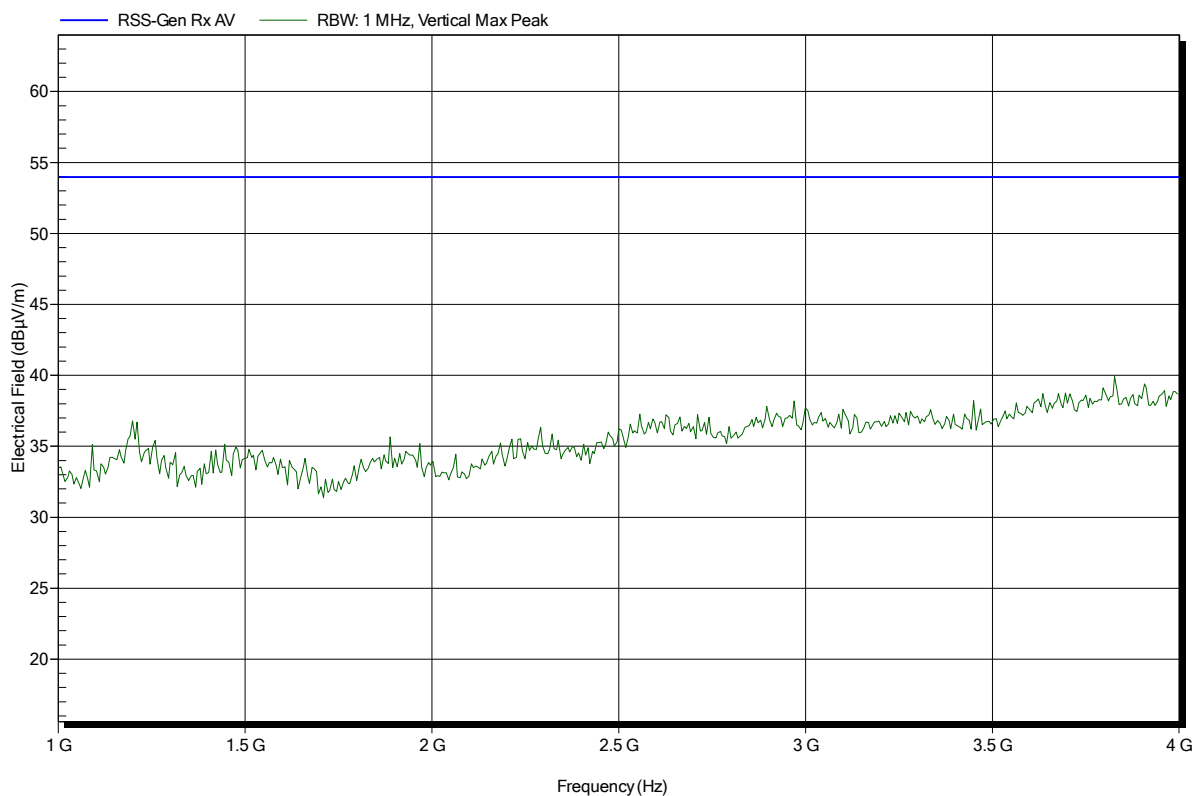


Spurious emissions according to RSS-GEN

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:

Index 40

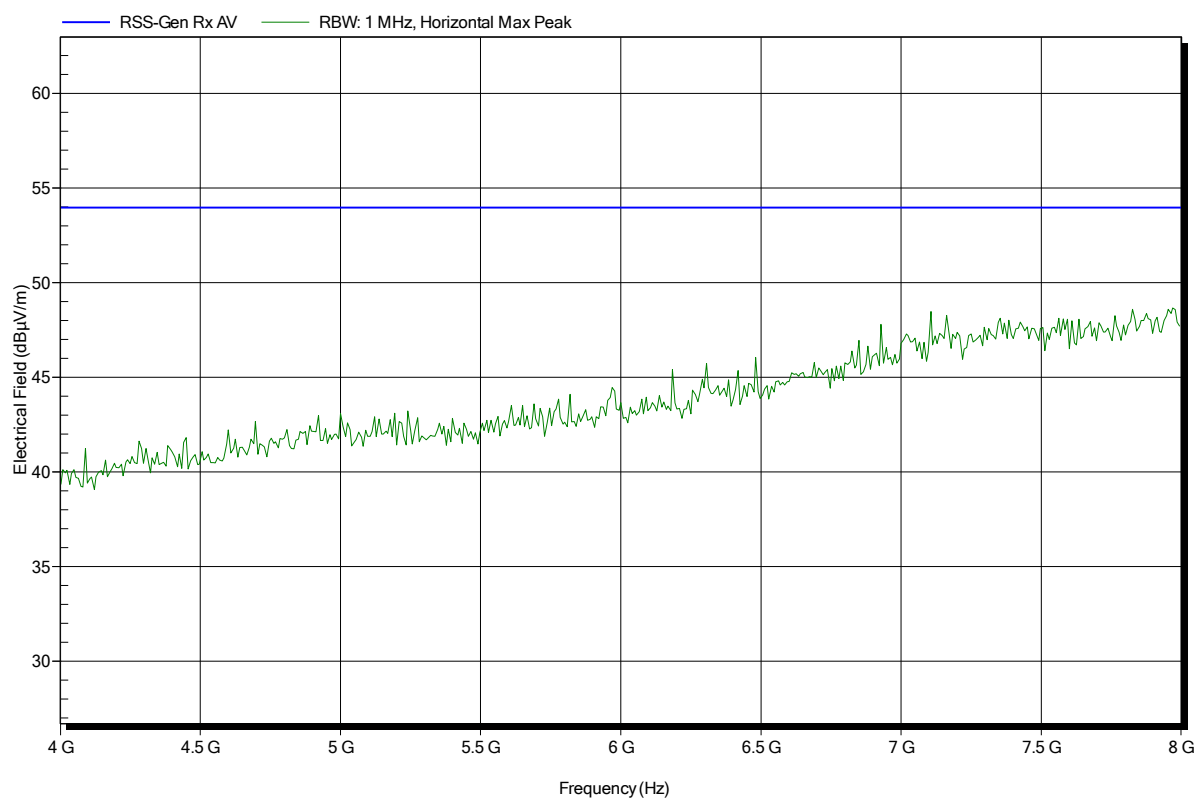


Spurious emissions according to RSS-GEN

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:

Index 38



Spurious emissions according to RSS-GEN

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: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: RX; Scan Mode
 Test Date: 2014-09-24
 Note:

Index 39

