

EMC TEST REPORT

FCC 47 CFR Part 15B
Industry Canada RSS-Gen

Electromagnetic compatibility - Unintentional radiators

Report Reference No. : G0M-1505-4755-EF0115B-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 : Spectralink Europe ApS

Address : Langmarksvej 34
8700 Horsens
DENMARK

Test specification:

Standard..... : 47 CFR Part 15 Subpart B
RSS-Gen, Issue 4, 2014-11
ANSI C63.4:2014

Equipment under test (EUT):

Product description	DECT handset 7742/7642	
Model No.	K023a	
Additional Models	K023b	
Hardware version	PCS 04	
Firmware / Software version	PCS 15J_	
IDs	FCC-ID: PXA-K023A	IC: 4604A-K023A
Test result	Passed	

Test Report No.: G0M-1505-4755-EF0115B-V01

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

Possible test case verdicts:

- not applicable to test object N/A
- test object does meet the requirement..... P (Pass)
- test object does not meet the requirement..... F (Fail)

Testing:

Date of receipt of test item 2015-06-01

Date (s) of performance of tests 2015-06-01 - 2015-06-04

Compiled by Steffen Zunke

Tested by (+ signature)..... Marcus Klein

Approved by (+ signature) Jens Zimmermann

Date of issue 2015-08-19

Total number of pages 51


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 difference between the model 7742 and the model 7642 is described in following customer document K023ab_Variant decl_001.

Declaration of changes due to variant creation.

Applicant: Spectralink Europe ApS
Project No(s): G0M-1505-4752, G0M-1505-4755
EUT (Product): Spectralink 7742 (K023a), Spectralink 7642 (K023b)

The difference between 7742 and 7642 is the keyboard type with corresponding plastic.
7742 use Foil-keyboard with ESD protection circuit.
7642 use Key-buttons with keyfoil.
All other components and firmware are the same.

Date: 2015-06-11


Henrik Birch Rasmussen

Spectralink Europe Aps.
Langmarksvej 34
8700 Horsens
Denmark

Version History

Version	Issue Date	Remarks	Revised by
V01	2015-08-19	Initial Release	

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1 Equipment (Test item) Description

Description	DECT handset 7742/7642	
Model	K023a	
Additional Models	K023b	
Serial number	None	
Hardware version	PCS 04	
Software / Firmware version	PCS 15J_	
FCC-ID	PXA-K023A	
IC-ID	4604A-K023A	
Power supply	3.7 VDC via rechargeable Battery	
AC/DC-Adaptor	Model : UE08WCP-060100SPA Manufacturer : Fuhua Input : 100-240VAC / 50-60Hz Output : 6VDC / 1.0A	
Radio module	Type	Bluetooth Module
	Model	CC2564MODN
	Manufacturer	Texas Instrument Inc.
	HW Version	V3.32
	SW Version	7.16
	FCC-ID	Z64-2564N
	IC	4511-2564N
Manufacturer	Spectralink Europe ApS Langmarksvej 34 8700 Horsens DENMARK	
Highest emission frequency	Fmax [MHz] = 4966	
Device classification	Class B	
Equipment type	Tabletop	
Number of tested samples	1	

1.1 Photos – Equipment external



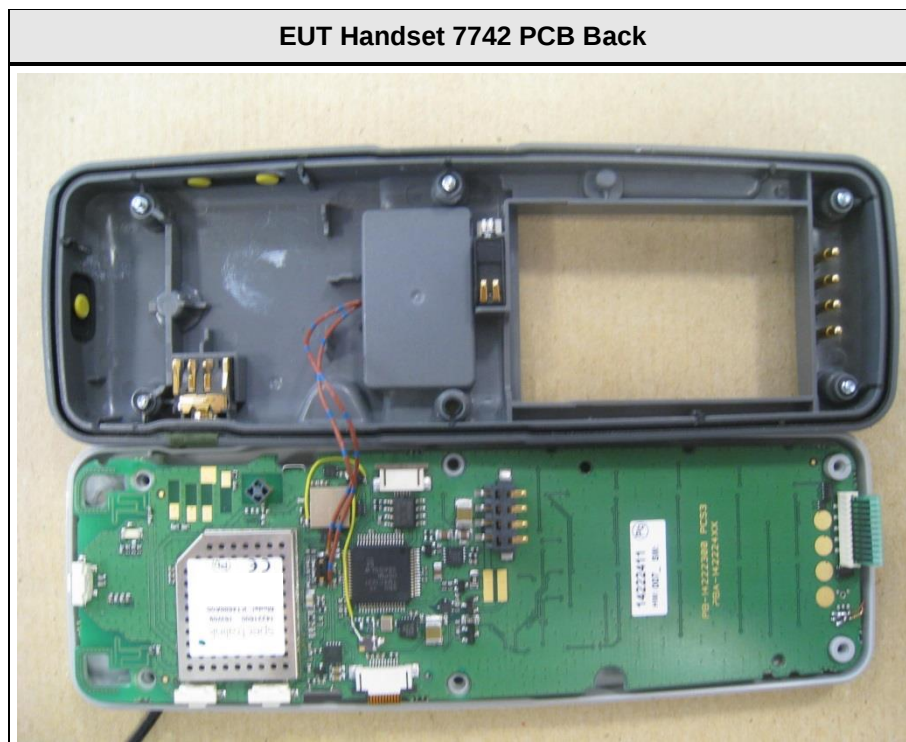
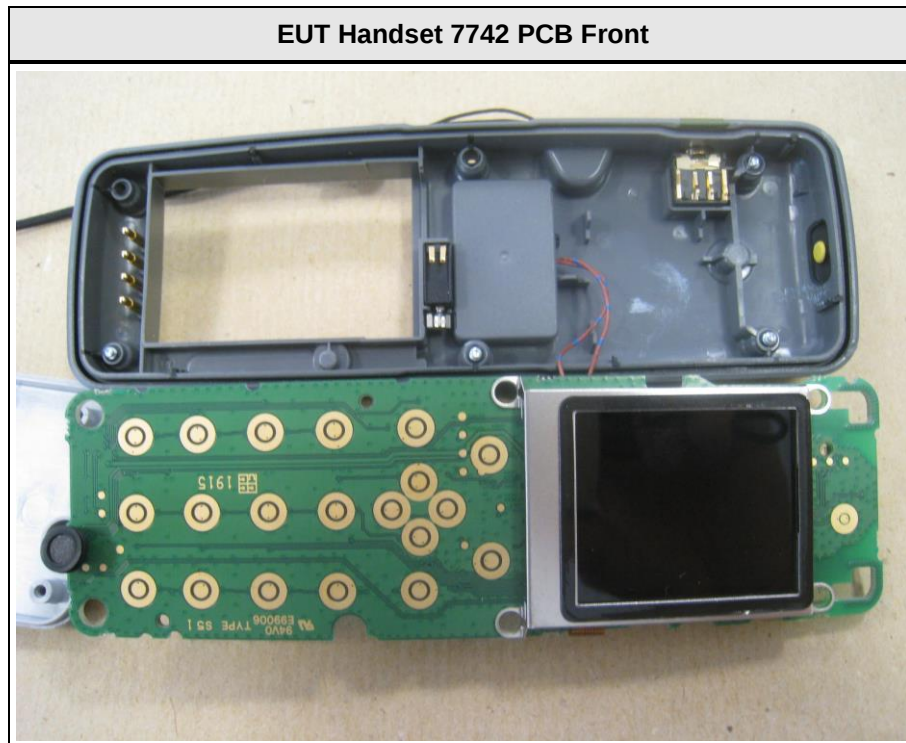
EUT Handset 7642 Front



EUT Handset 7642 Back



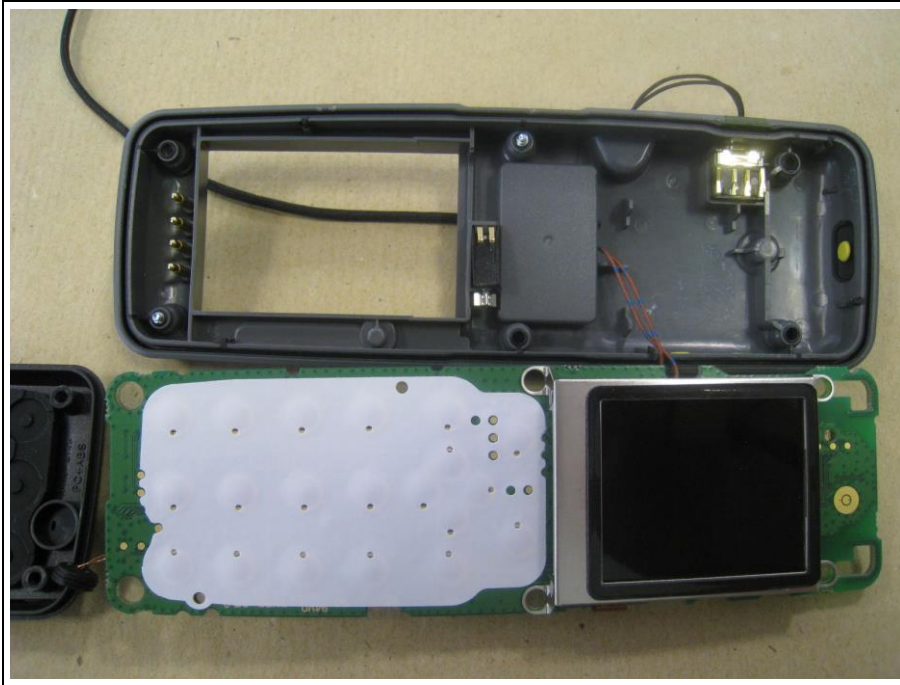
1.2 Photos – Equipment internal



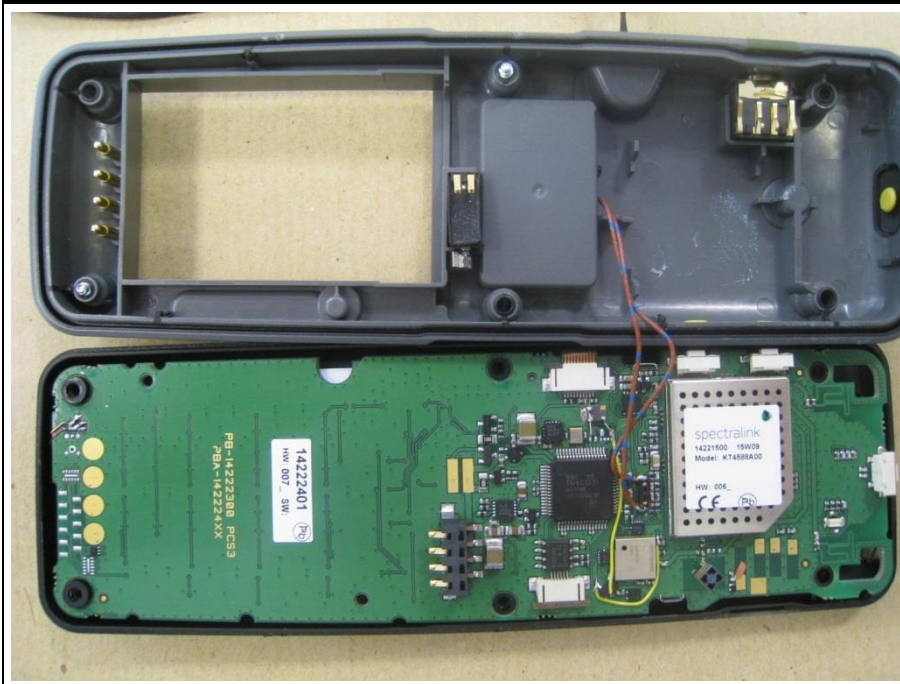
Test Report No.: G0M-1505-4755-EF0115B-V01

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

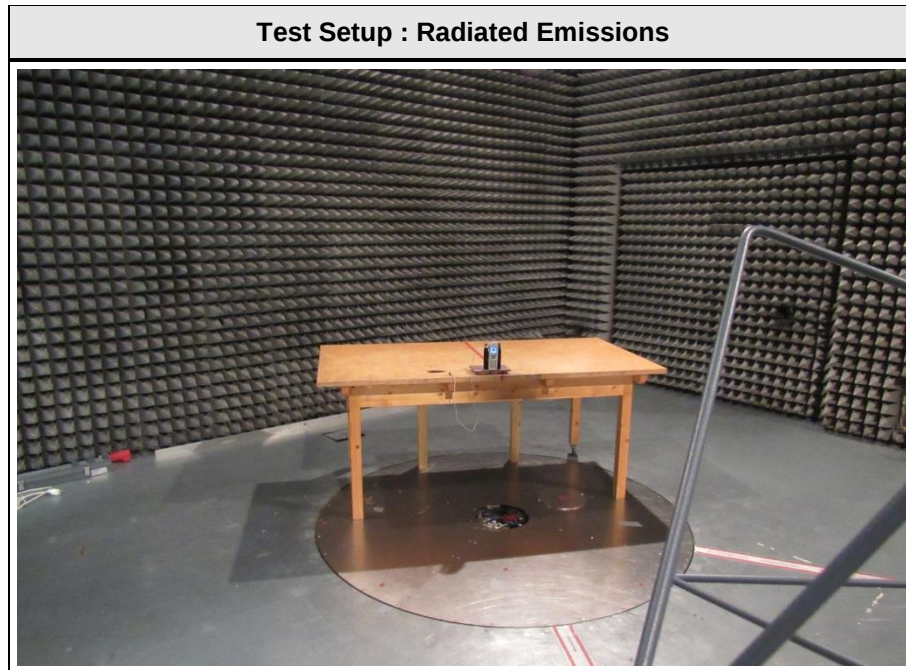
EUT Handset 7642 PCB Front



EUT Handset 7642 PCB Back



1.3 Photos – Test setup



Test Setup : Conducted Emissions



1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
AE	Charger, single	Spectralink	84642493	-
AE	Charger, single, USB	Spectralink	84642494	-
AE	Power adaptor	Fuhua	UE08WCP-060100SPA	-
AE	Bluetooth Headset	Plantronics	M70	-
AE	DECT Base	Spectralink	IP-DECT Server 400	-
AE	Companion device	Spectralink	7642	-
*Note: Use the following abbreviations:				
AE :	Auxiliary/Associated Equipment, or			
SIM :	Simulator (Not Subjected to Test)			
CABL :	Connecting cables			

1.5 Input / Output Ports

Port #	Name	Type*	Max. Cable Length	Cable Shielded	Comments
1	Headset	I/O	<3m	No	-
2	USB	I/O	<3m	Yes	@charger, service only
3	AC Mains	I/O	<3m	No	@charger
*Note: Use the following abbreviations:					
AC :	AC power port				
DC :	DC power port				
N/E :	Non electrical				
I/O :	Signal input or output port				
TP :	Telecommunication port				

1.6 Operating Modes and Configurations

Mode #	Description
1	DECT handset 7742, EUT at charging mode, DECT link to companion device, Bluetooth classic link to headset
2	DECT handset 7742, EUT battery powered, DECT link to companion device, Bluetooth classic link to headset, wired headset termination connected
3	DECT handset 7742, EUT battery powered, Bluetooth-LE link to companion device
4	DECT handset 7642, EUT battery powered, DECT link to companion device

Configuration #	EUT Configuration
1	DECT handset 7742 fully assembled
2	DECT handset 7642 fully assembled

1.7 Test Equipment Used During Testing

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

Radiated emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD-Antenne	R&S	HL 223	EF00187	2014-03	2017-03
Horn antenna	Schwarzbeck	BBHA 9120D	EF00018	2013-09	2016-09
EMI Test Receiver	R&S	ESU26	EF00887	2015-01	2016-01

Conducted emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH2-Z5	EF00182	2014-11	2016-11
AMN	R&S	ESH3-Z5	EF00036	2014-12	2016-12
EMI Test Receiver	R&S	ESCS 30	EF00295	2014-10	2015-10

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 15B, Industry Canada RSS-Gen				
Product Specific Standard	Requirement – Test	Reference Method	Result	Remarks
47 CFR 15.109 RSS-Gen 6.13	Radiated emissions	ANSI C 63.4	PASS	-
47 CFR 15.107 RSS-Gen 8.8	AC power line conducted emissions	ANSI C63.4	PASS	-
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – Radiated emissions

Radiated emissions acc. FCC 47 CFR 15.109 / IC RSS-Gen				Verdict: PASS		
Laboratory Parameters:		Required prior to the test		During the test		
Ambient Temperature		15 to 35 °C		23°C		
Relative Humidity		30 to 60 %		45%		
Test according referenced standards		Reference Method				
		ANSI C63.4				
Sample is tested with respect to the requirements of the equipment class		Equipment class				
		Class B				
Test frequency range determined from highest emission frequency		Highest emission frequency				
		Fmax [MHz] = 4966				
Fully configured sample scanned over the following frequency range		Frequency range				
		30 MHz to 25 GHz				
Operating mode		1 / 2 / 3 / 4				
Configuration		1 / 2				
Limits and results Class B						
Frequency [MHz]	Quasi-Peak [dBµV/m]	Result	Average [dBµV/m]	Result	Peak [dBµV/m]	Result
30 – 88	40	PASS	-		-	-
88 – 216	43.5	PASS	-		-	-
216 – 960	46	PASS	-		-	-
960 – 1000	54	PASS	-		-	-
> 1000	-	-	54	PASS	74	PASS
Comments:						
Over 18 GHz were no relevant emission detected. The report shows results up to 18 GHz only. For the radiated emission the charger 84642494 was detected as worst. This report shows results with this charger only.						

Test Procedure:

The test site is in accordance with ANSI C63-4:2009 requirements and is listed by FCC.

The measurement procedure is as follows:

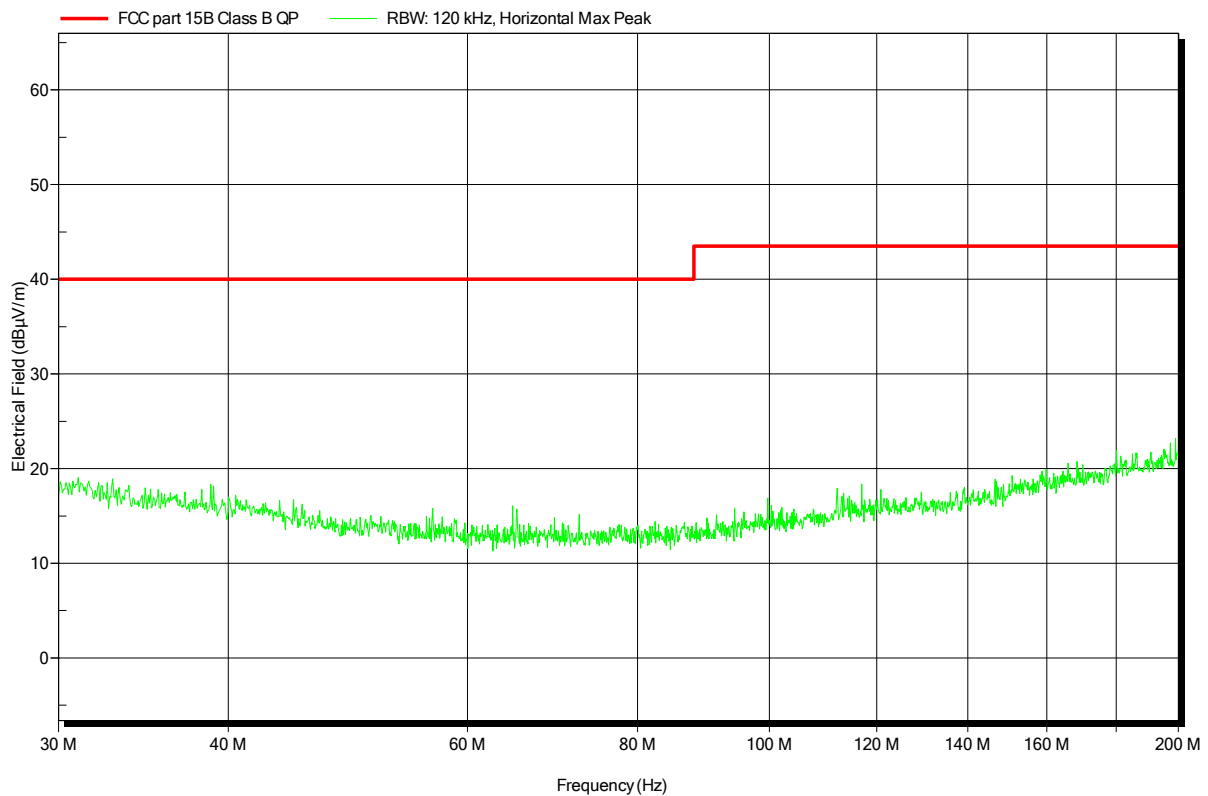
- 1) The EUT was placed on a 0.8 m non conductive table at a 3 m distance from the receive antenna (ANSI C63.4: 2009 item 6.2)
- 2) The antenna output was connected to the measurement receiver
- 3) A biconical antenna was used for the frequency range 30 – 200 MHz, a logarithmic periodical antenna was used for the frequency range from 200 – 1000 MHz. Above one 1 GHz a Double Ridged Broadband Horn antenna was used. The antenna was placed on an adjustable height antenna mast
- 4) Emissions were maximized at each frequency by rotating the EUT and adjusting the receive antenna height and polarization. The maximum values were recorded.

Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant:	Spectralink Europe ApS
EUT Name:	DECT handset 7742/7642
Model:	K023a
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Klein
Test Conditions:	Tnom: 24°C, Unom: 3.7 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3m
Mode:	7742 connected to companion device and Basestation, BT link to Headset, wired headset termination connected
Test Date:	Montag, 1. Juni 2015
Note:	

Index 1

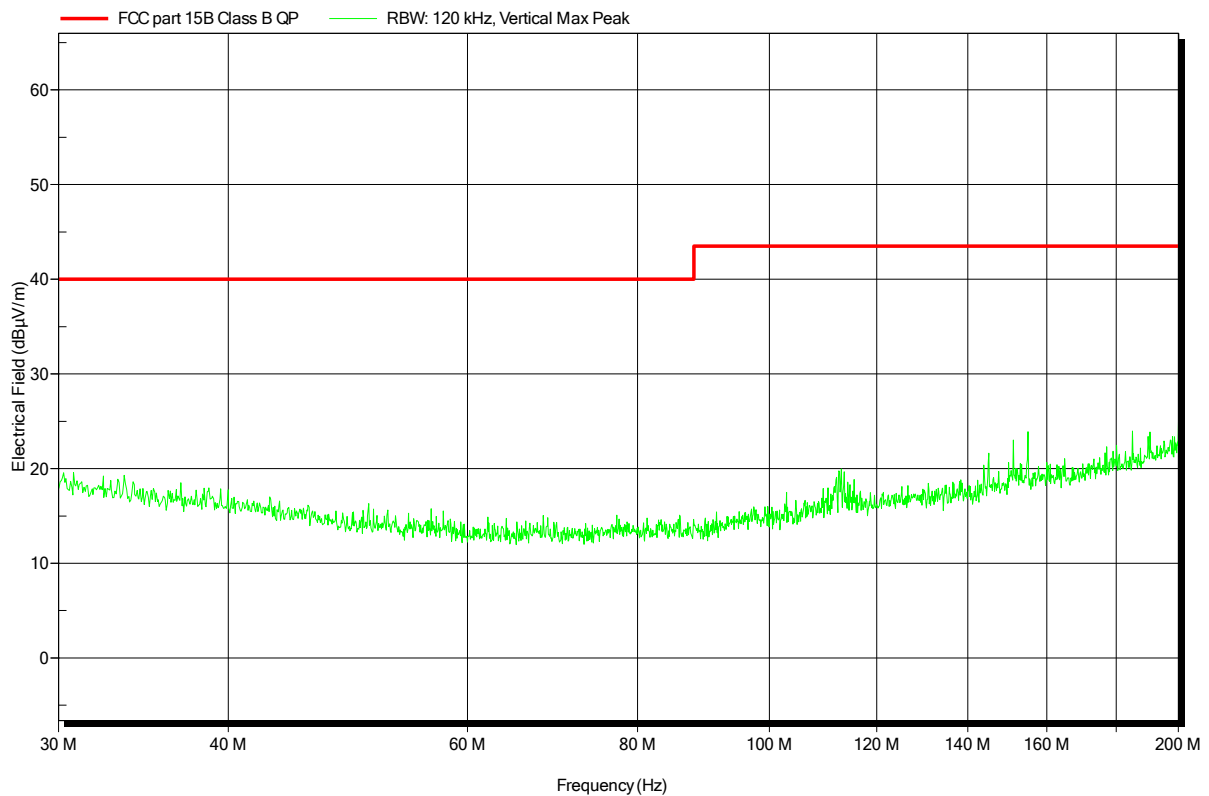


Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023a
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 3.7 VDC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3m
 Mode: 7742 connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note:

Index 2

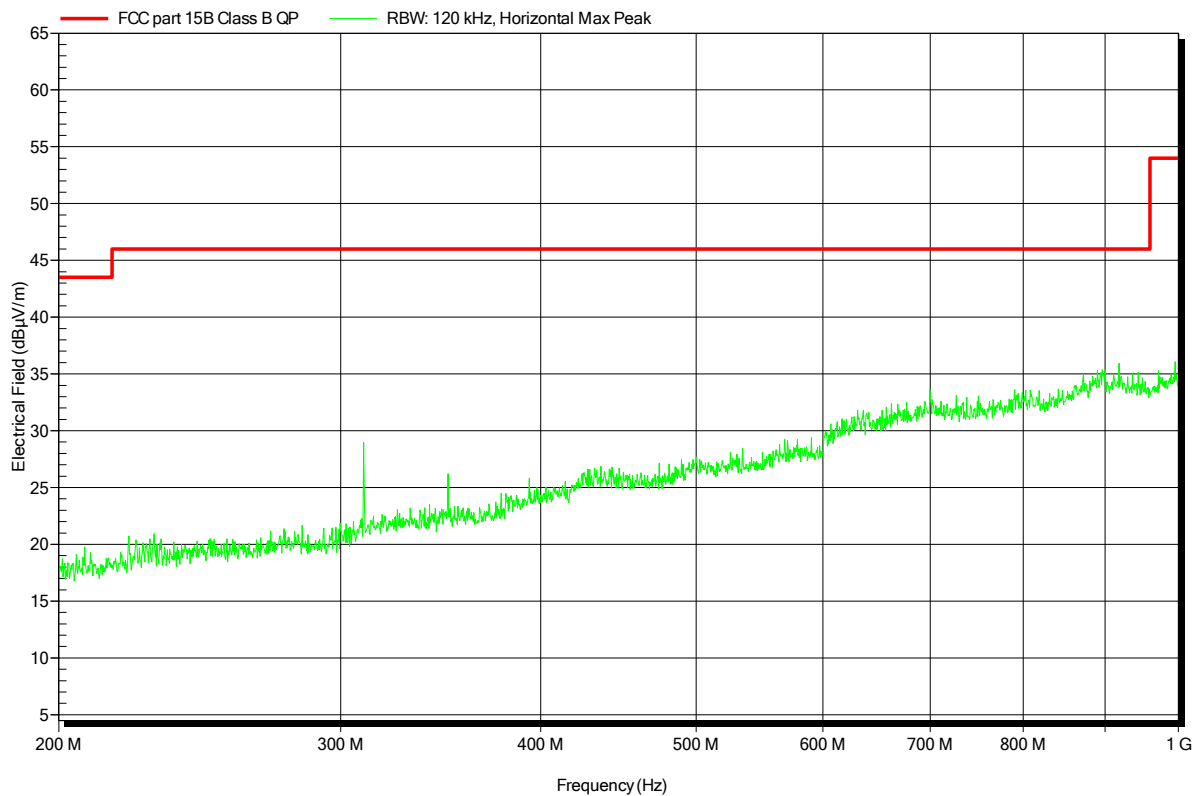


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 Model: K023a
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 3.7 VDC
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3m
 Mode: 7742 connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note:

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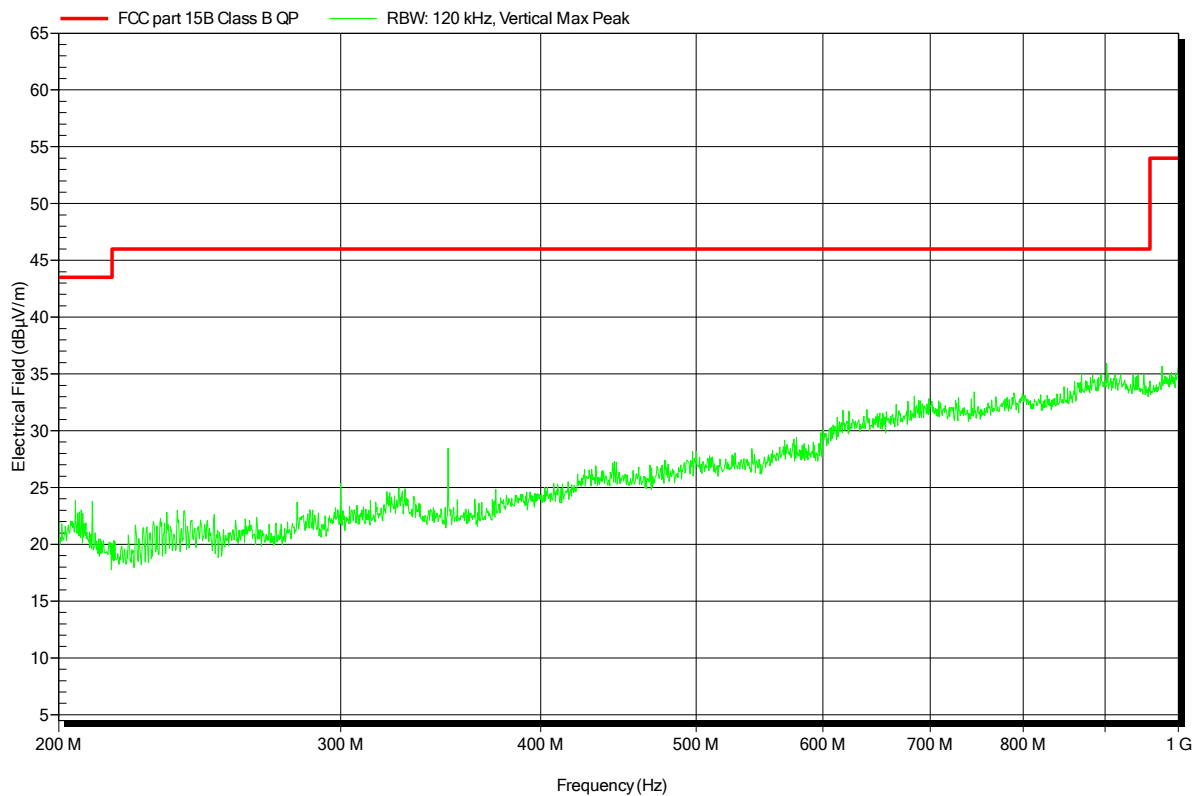


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EUT Name:	DECT handset 7742/7642
Model:	K023a
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Klein
Test Conditions:	Tnom: 24°C, Unom: 3.7 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3m
Mode:	7742 connected to companion device and Basestation, BT link to Headset, wired headset termination connected
Test Date:	Montag, 1. Juni 2015
Note:	

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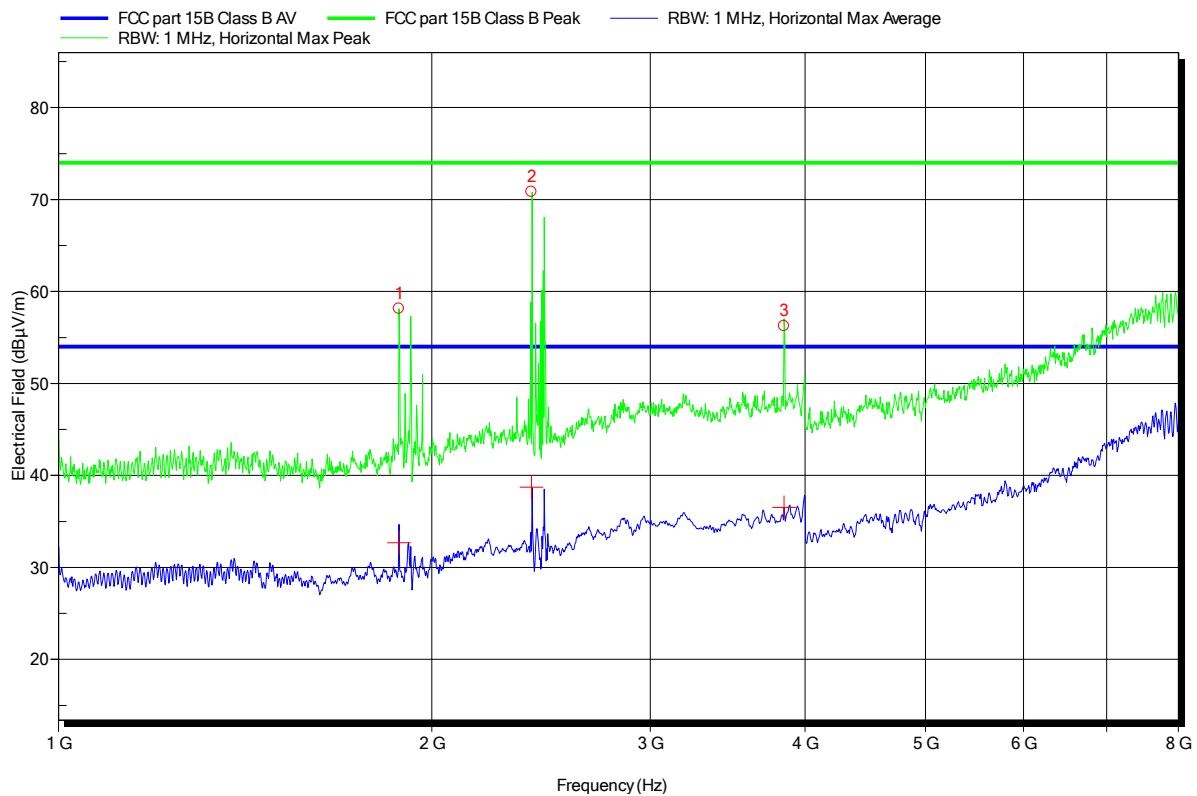


Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023a
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 3.7 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3m
 Mode: 7742 connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note: Peak 1: DECT Carrier
 Peak 2: BT Carrier
 Peak 3: DECT Harmonic

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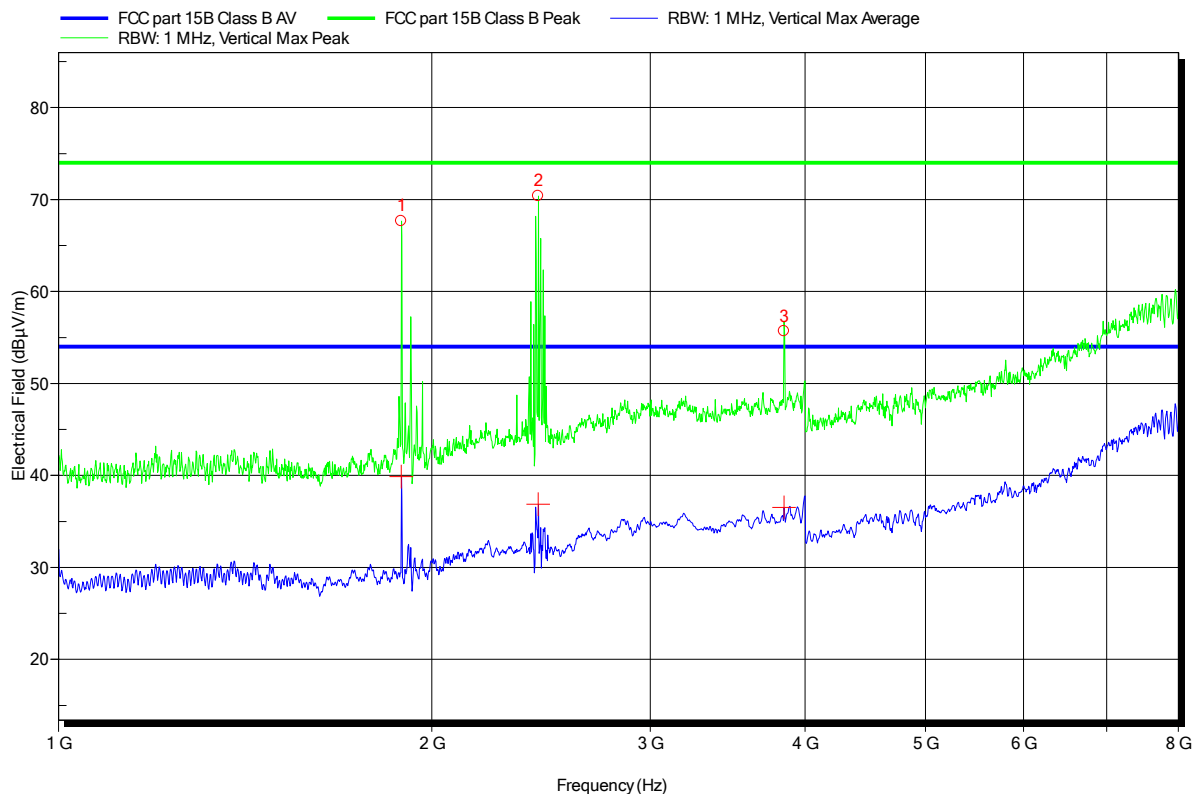
Frequency	Average	Average Limit	Average Difference	Average Status
1,882 GHz	32,67 dBµV/m	54 dBµV/m	-21,33 dB	Pass
2,408 GHz	38,72 dBµV/m	54 dBµV/m	-15,28 dB	Pass
3,847 GHz	36,52 dBµV/m	54 dBµV/m	-17,48 dB	Pass

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 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 3.7 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3m
 Mode: 7742 connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note: Peak 1: DECT Carrier
 Peak 2: BT Carrier
 Peak 3: DECT Harmonic

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Frequency	Average	Average Limit	Average Difference	Average Status
1,89 GHz	39,87 dBμV/m	54 dBμV/m	-14,13 dB	Pass
2,437 GHz	36,89 dBμV/m	54 dBμV/m	-17,11 dB	Pass
3,847 GHz	36,51 dBμV/m	54 dBμV/m	-17,49 dB	Pass

Test Report No.: G0M-1505-4755-EF0115B-V01

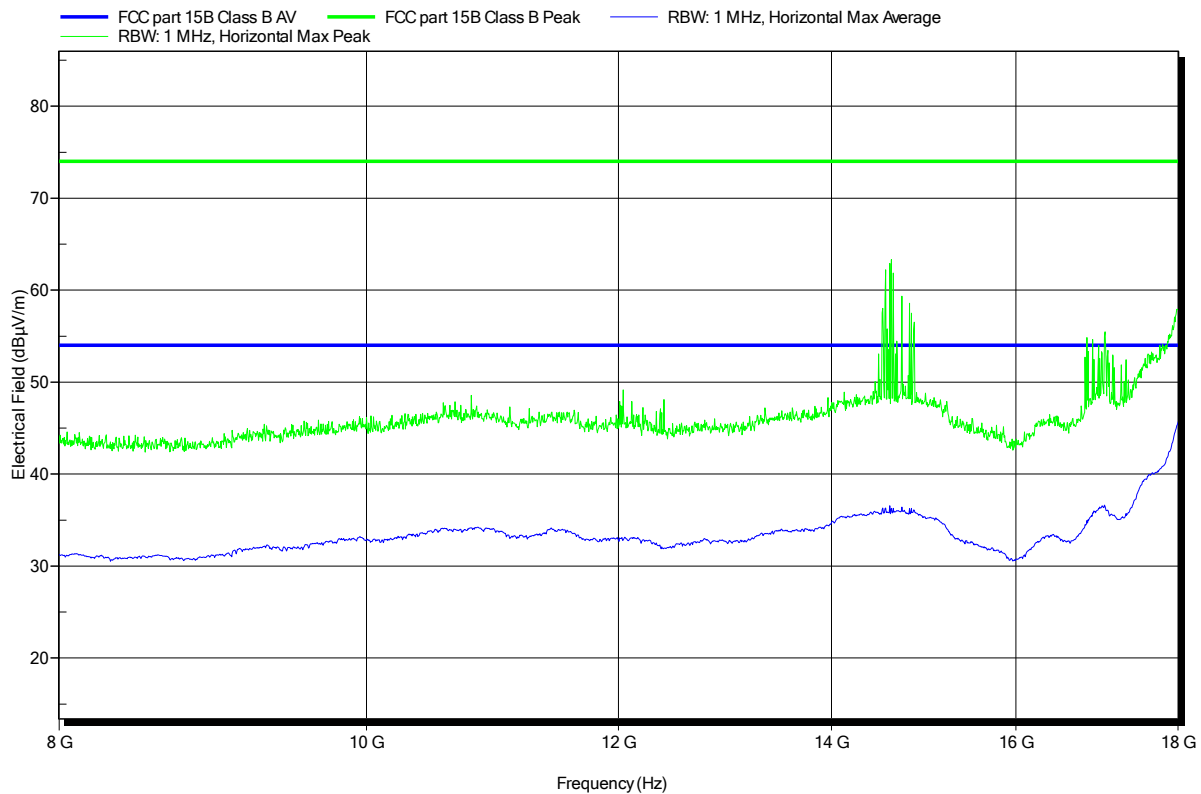
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

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 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3m
 Mode: 7742 connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note:

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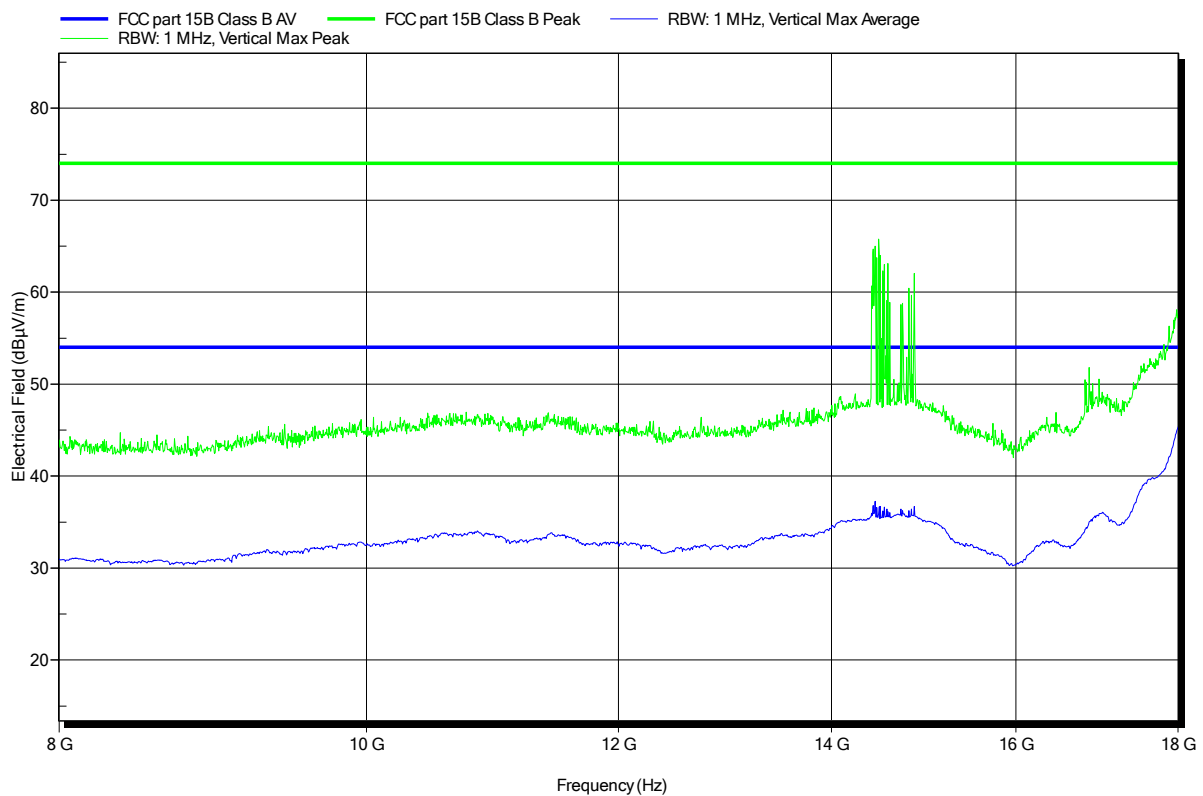


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 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3m
 Mode: 7742 connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note:

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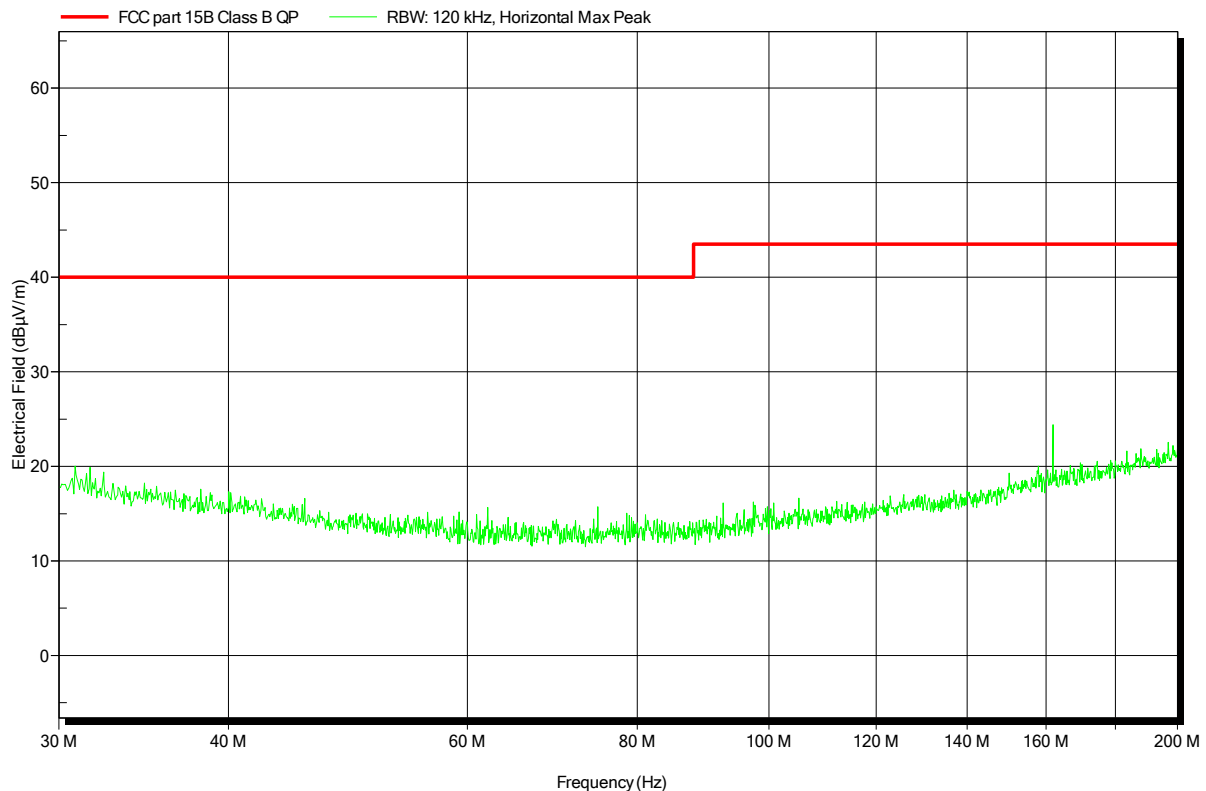


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EUT Name:	DECT handset 7742/7642
Model:	K023a
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Klein
Test Conditions:	Tnom: 24°C, Unom: 3.7 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3m
Mode:	7742, connected to companion device via BT-LE
Test Date:	Montag, 1. Juni 2015
Note:	

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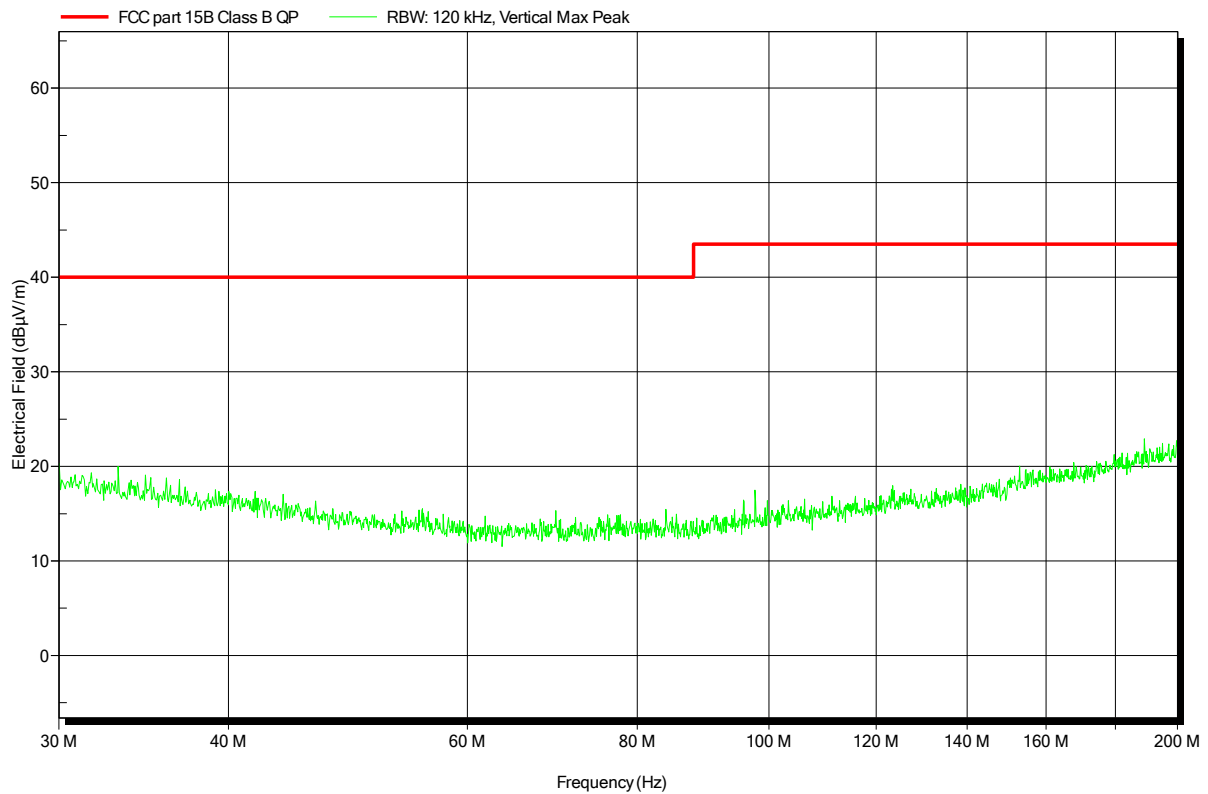


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 Test Conditions: Tnom: 24°C, Unom: 3.7 VDC
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3m
 Mode: 7742, connected to companion device via BT-LE
 Test Date: Montag, 1. Juni 2015
 Note:

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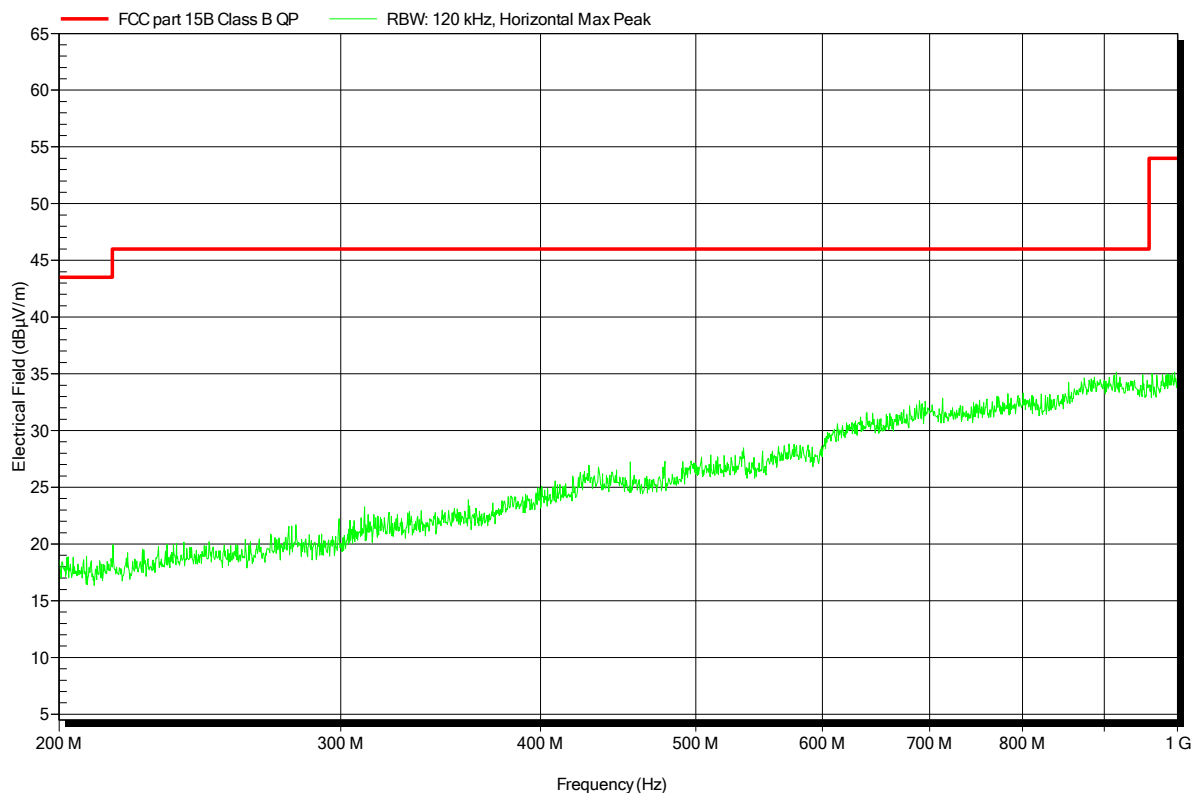


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 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3m
 Mode: 7742, connected to companion device via BT-LE
 Test Date: Montag, 1. Juni 2015
 Note:

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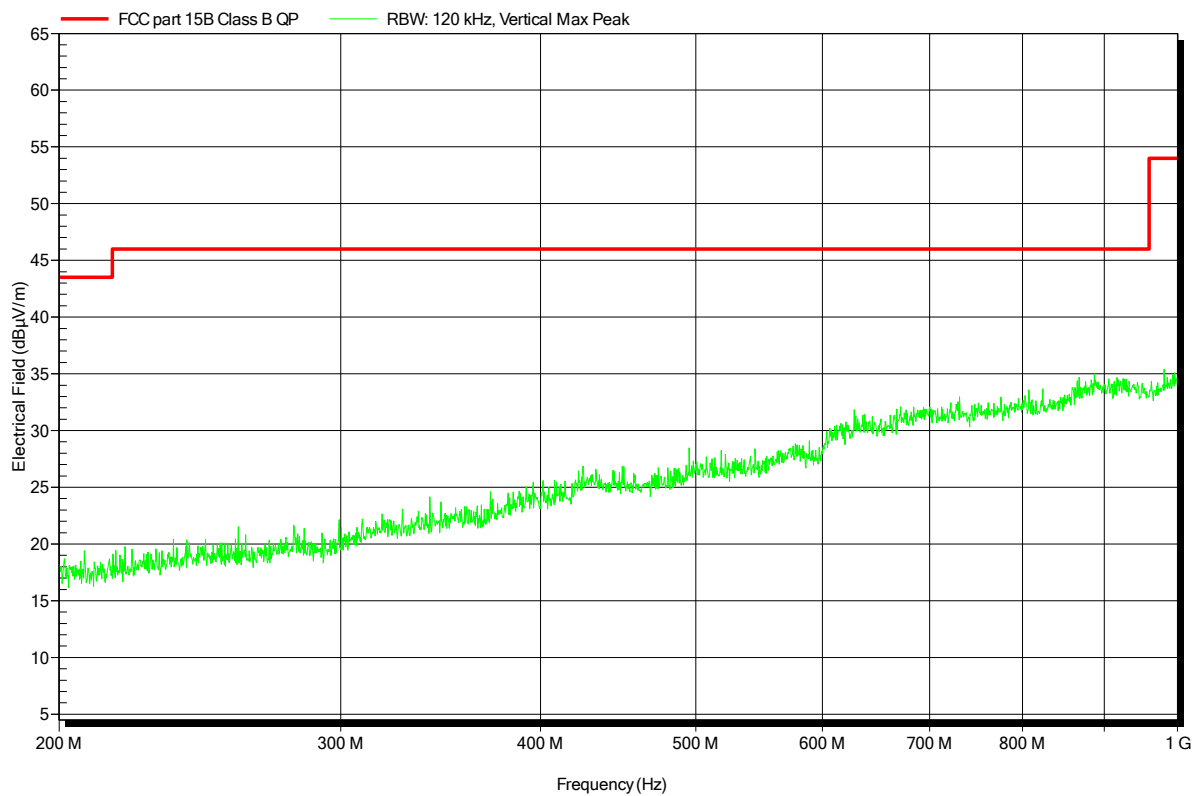


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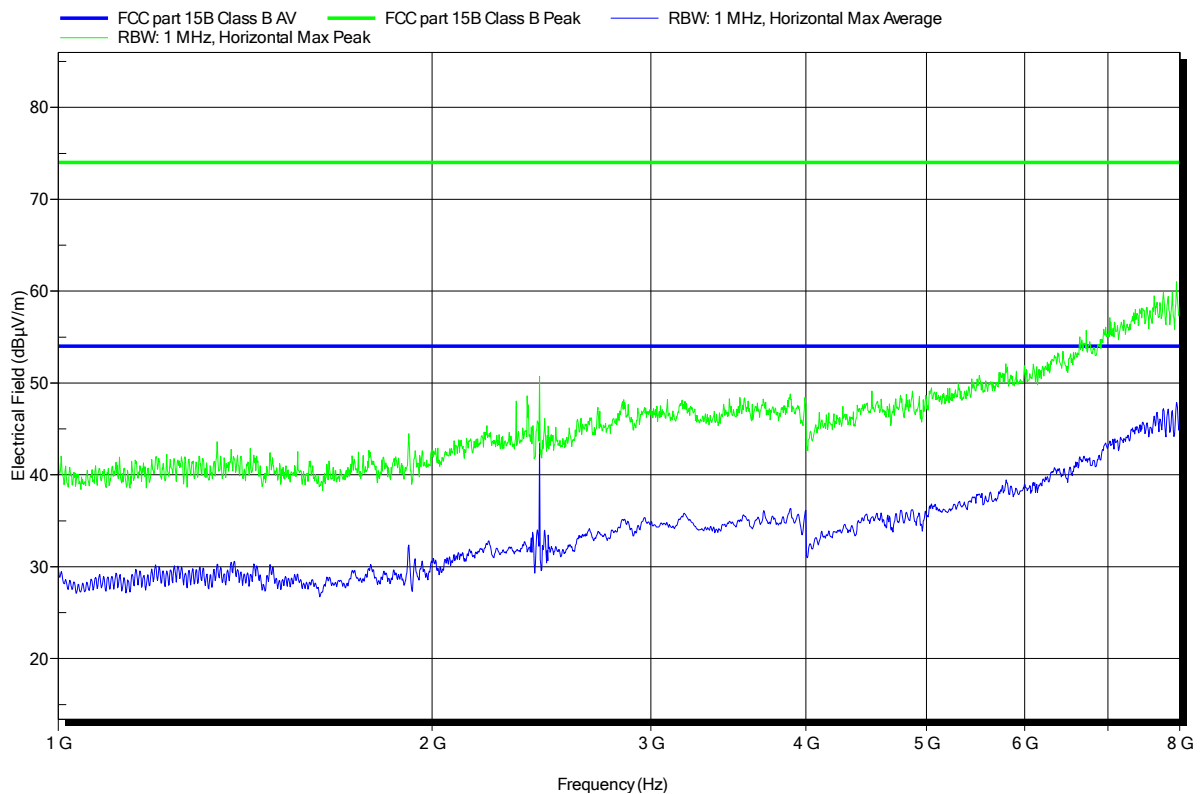


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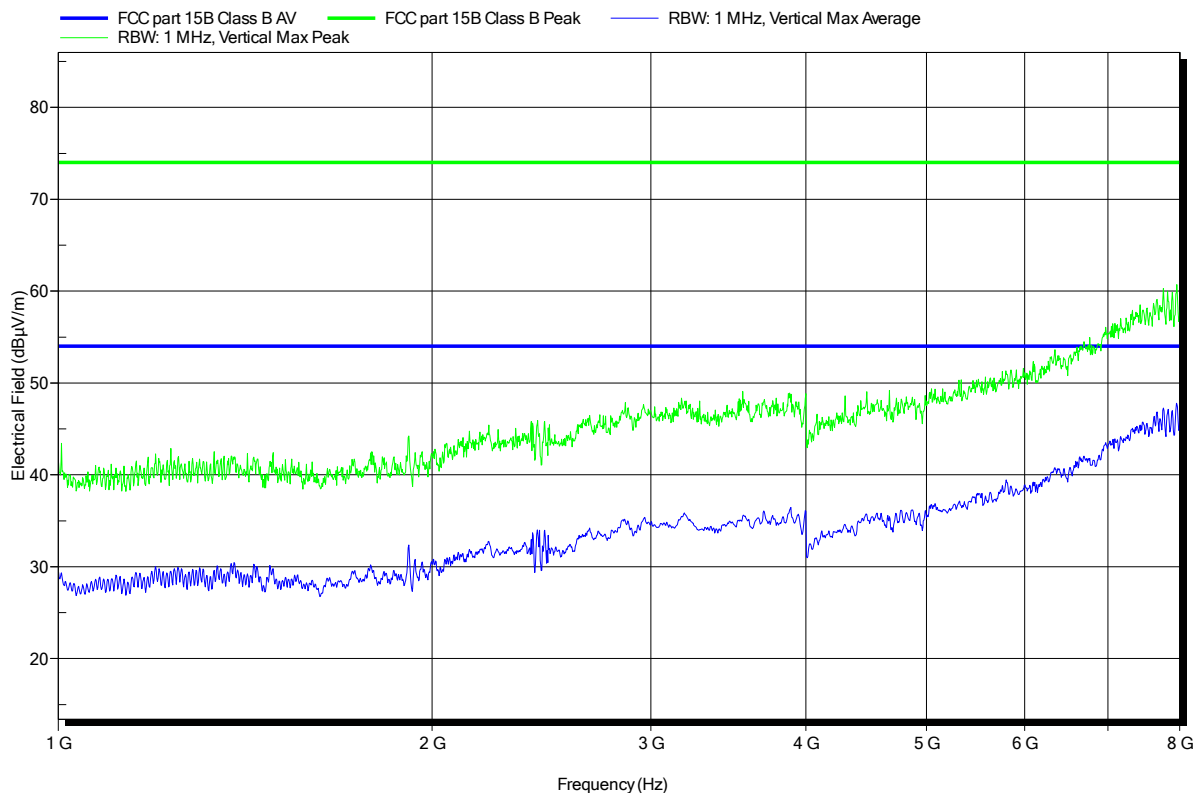


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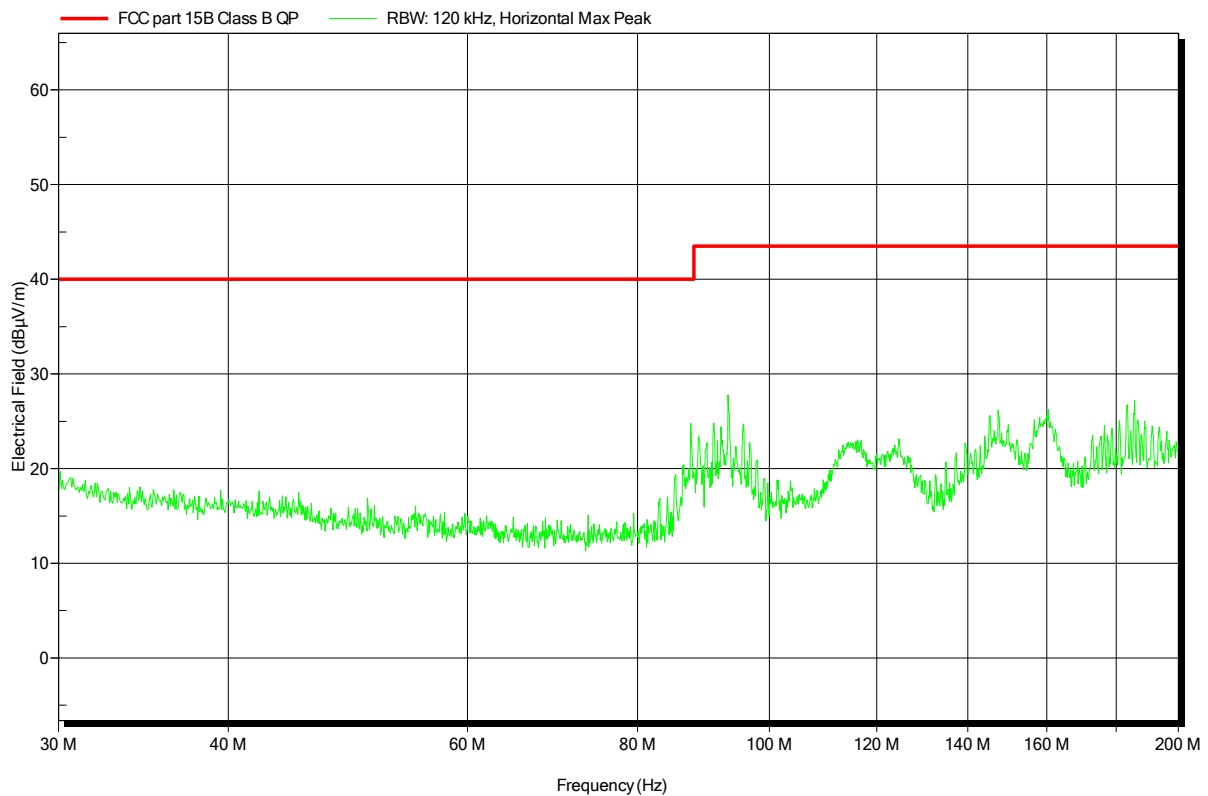


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 EUT Name: DECT handset 7742/7642
 Model: K023a
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 120 VAC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3m
 Mode: 7742 in charging mode, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note:

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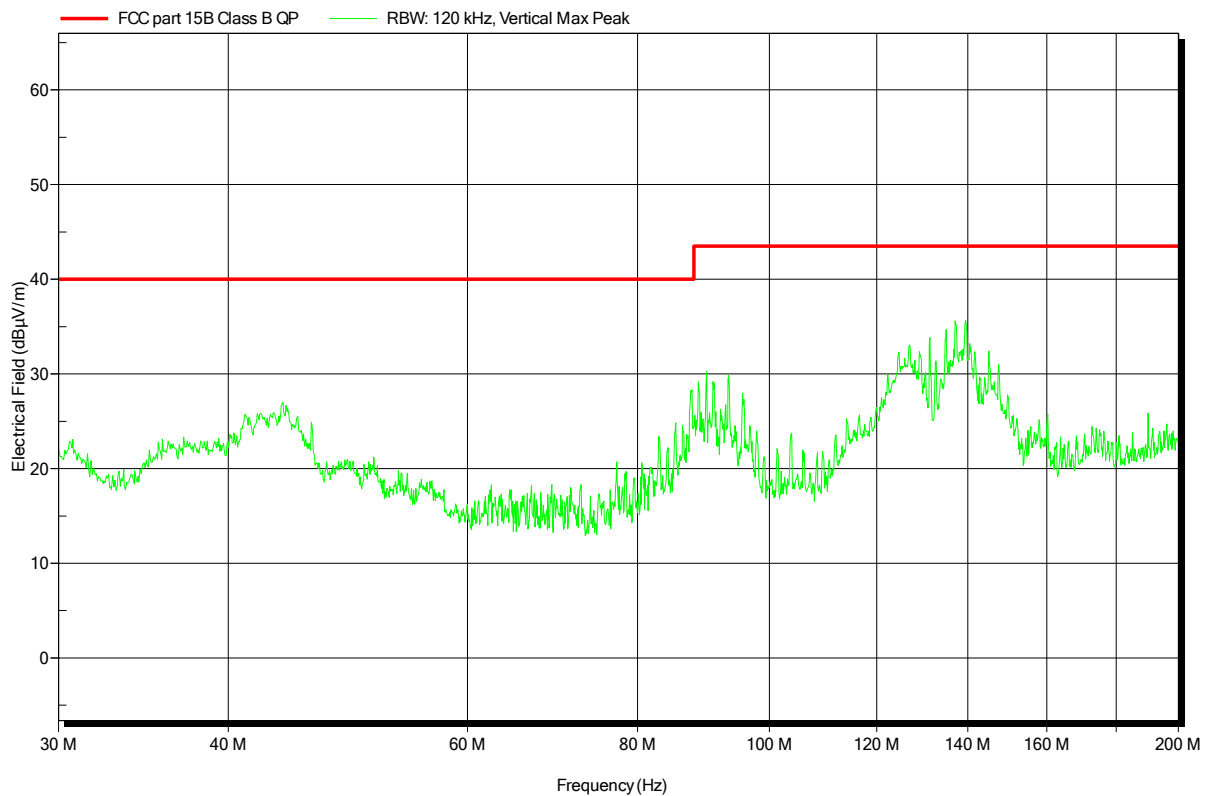


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 Test Site: Eurofins Product Service GmbH
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 Test Conditions: Tnom: 24°C, Unom: 120 VAC
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 Measurement distance: 3m
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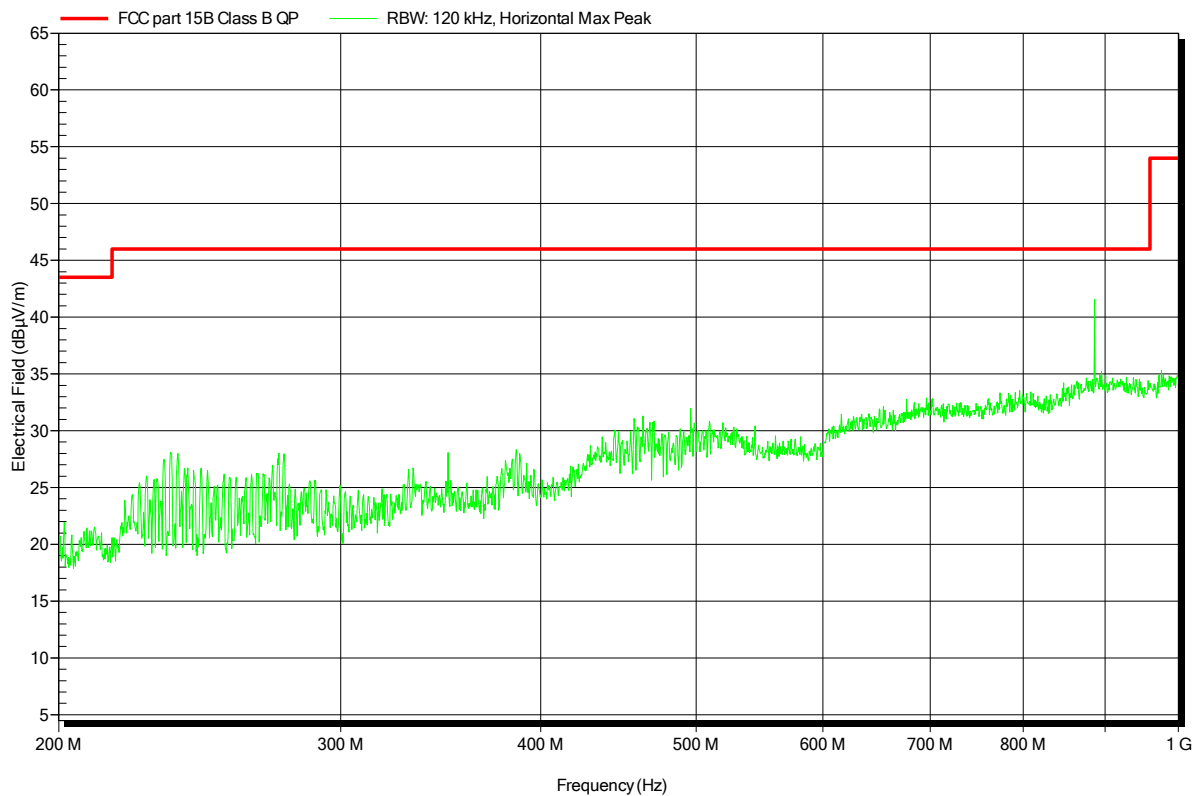


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Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Klein
Test Conditions:	Tnom: 24°C, Unom: 120 VAC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3m
Mode:	7742 in charging mode, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
Test Date:	Montag, 1. Juni 2015
Note:	

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Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023a
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 120 VAC
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3m
 Mode: 7742 in charging mode, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note:

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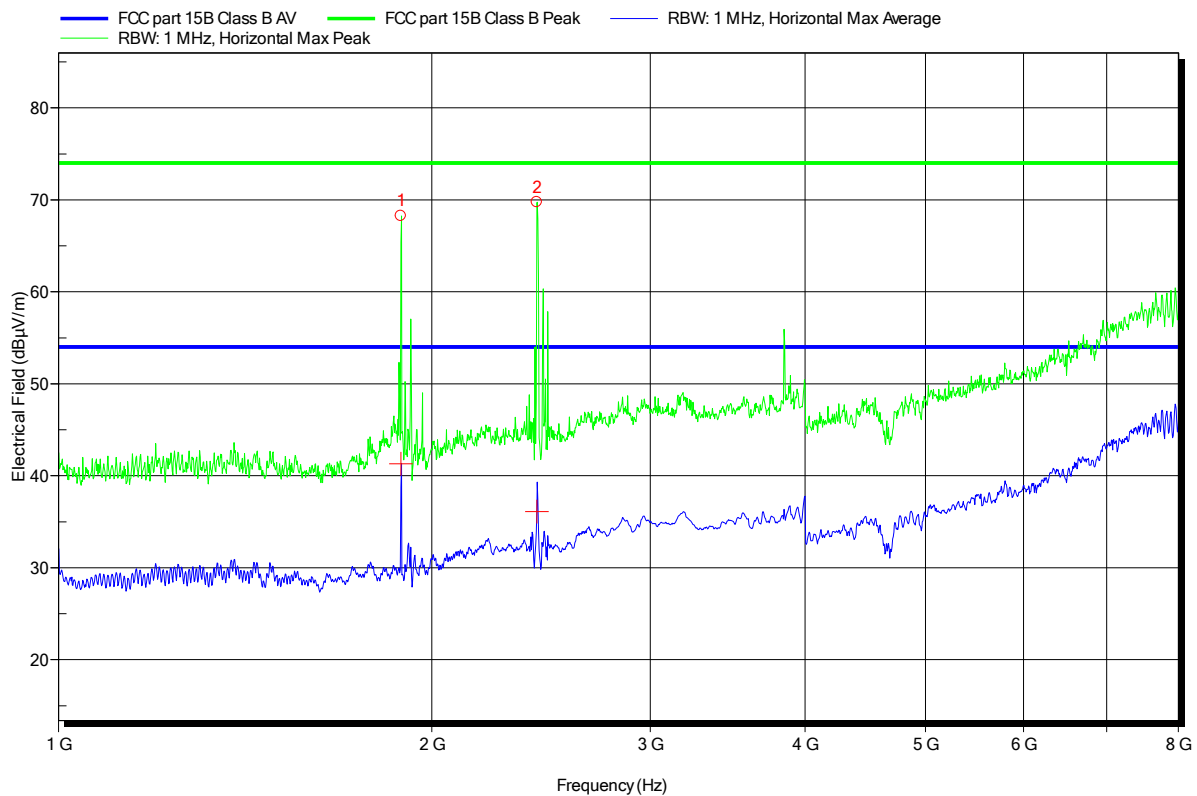


Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023a
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 120 VAC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3m
 Mode: 7742 in charging mode, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note: Peak 1: DECT Carrier
 Peak 2: BT Carrier

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Frequency	Average	Average Limit	Average Difference	Average Status
1,889 GHz	41,31 dBµV/m	54 dBµV/m	-12,69 dB	Pass
2,432 GHz	36,11 dBµV/m	54 dBµV/m	-17,89 dB	Pass

Test Report No.: G0M-1505-4755-EF0115B-V01

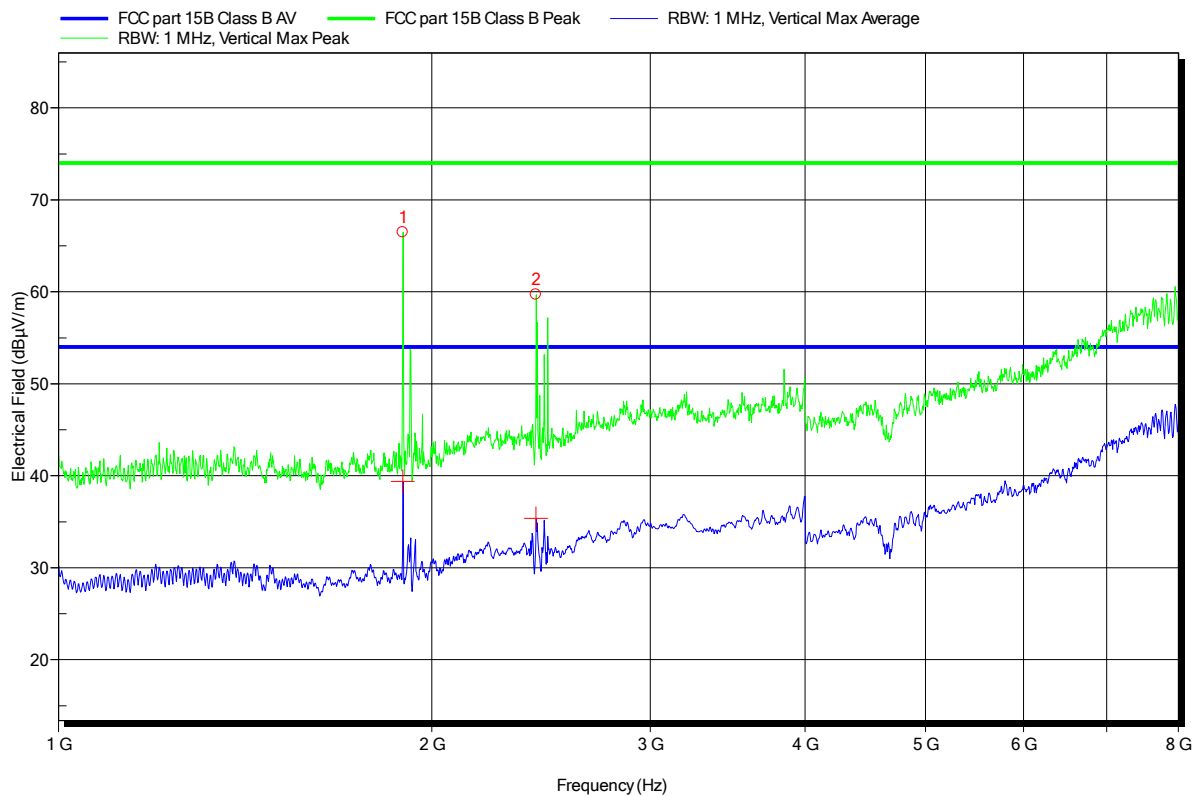
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023a
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 120 VAC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3m
 Mode: 7742 in charging mode, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note: Peak 1: DECT Carrier
 Peak 2: BT Carrier

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Frequency	Average	Average Limit	Average Difference	Average Status
1,896 GHz	39,39 dBµV/m	54 dBµV/m	-14,61 dB	Pass
2,428 GHz	35,36 dBµV/m	54 dBµV/m	-18,64 dB	Pass

Test Report No.: G0M-1505-4755-EF0115B-V01

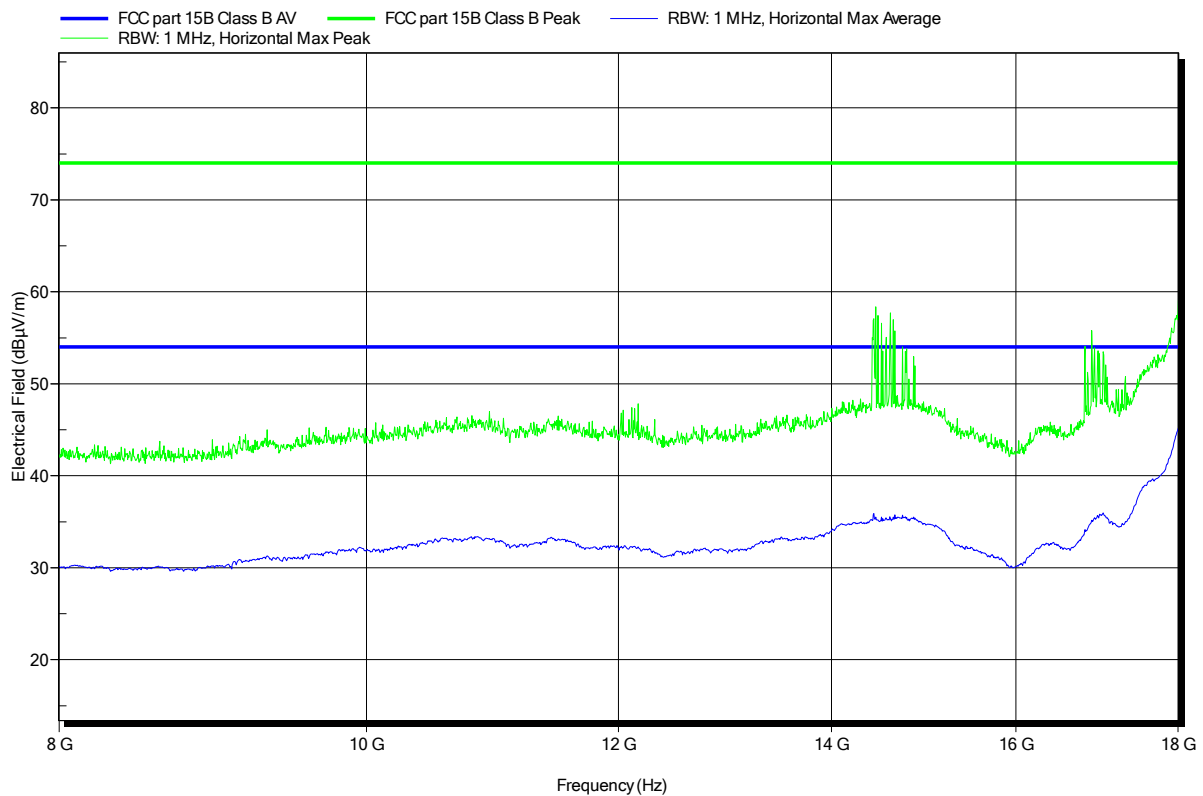
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023a
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 120 VAC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3m
 Mode: 7742 in charging mode, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note:

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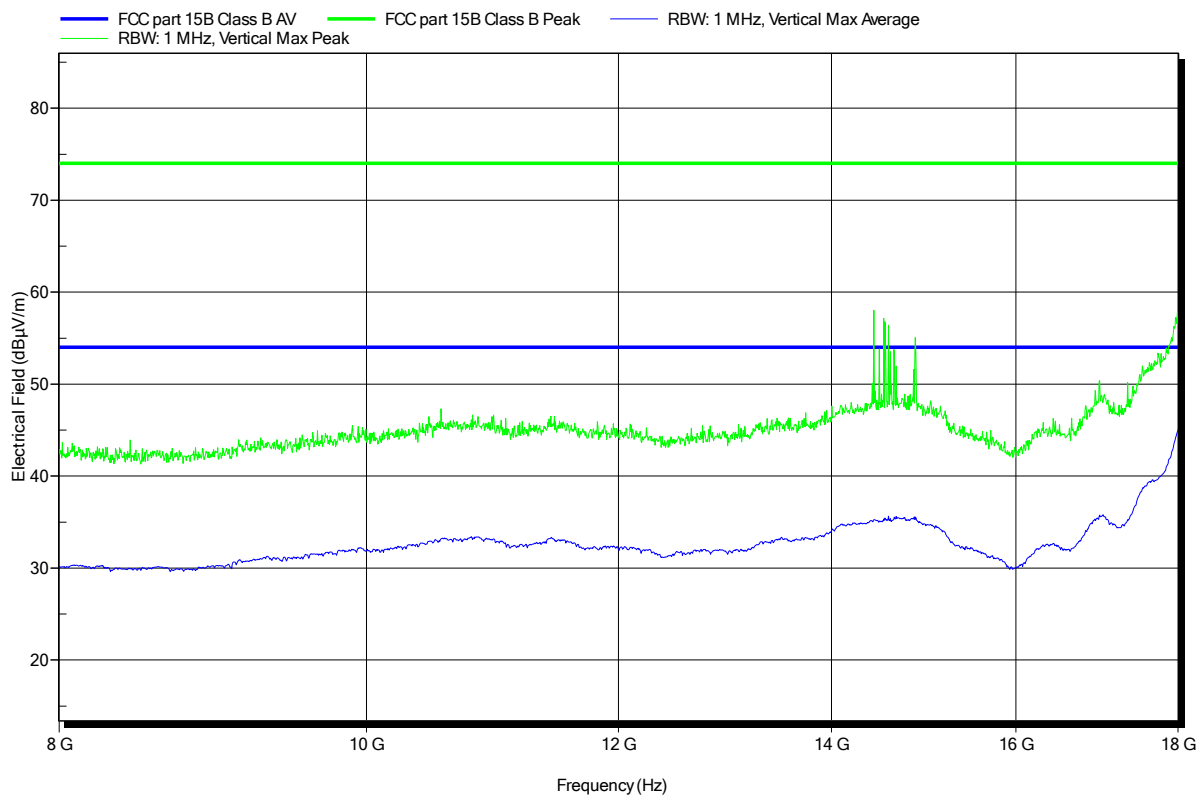


Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023a
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 120 VAC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3m
 Mode: 7742 in charging mode, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note:

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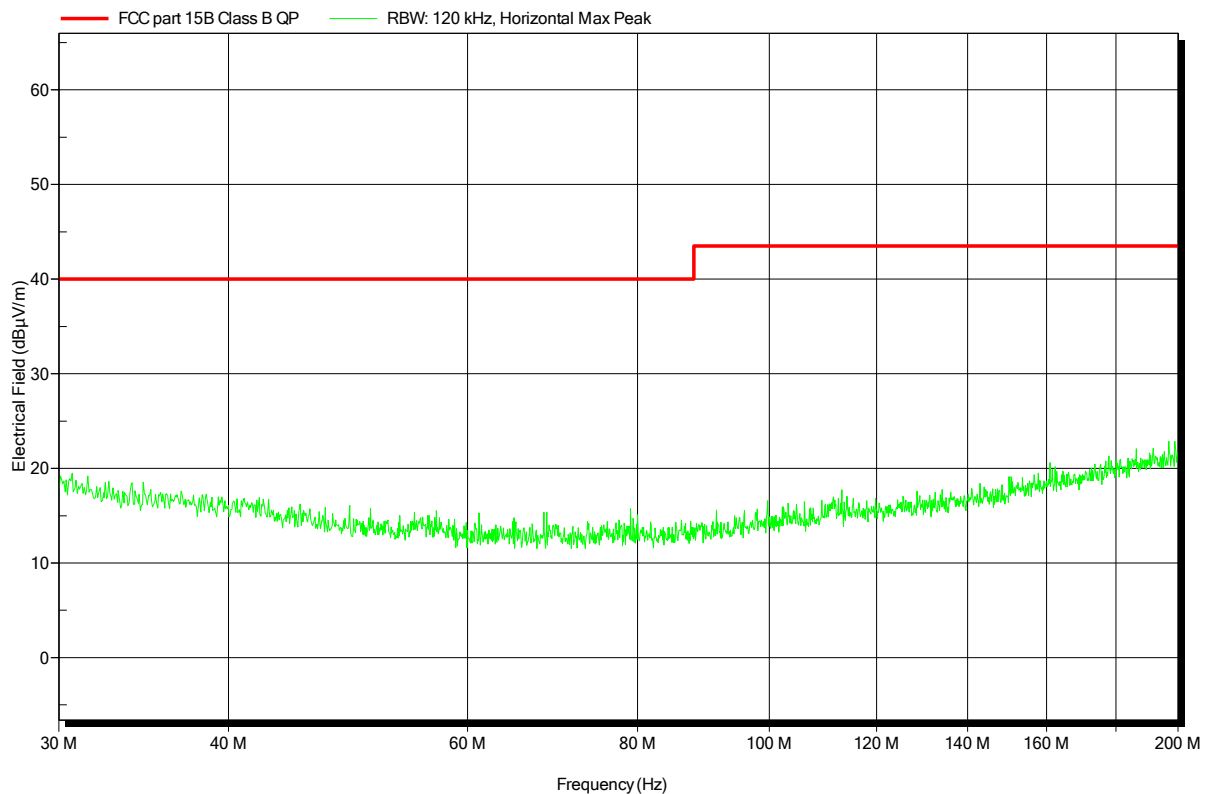


Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023b
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 3.7 VDC
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3m
 Mode: 7642, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note:

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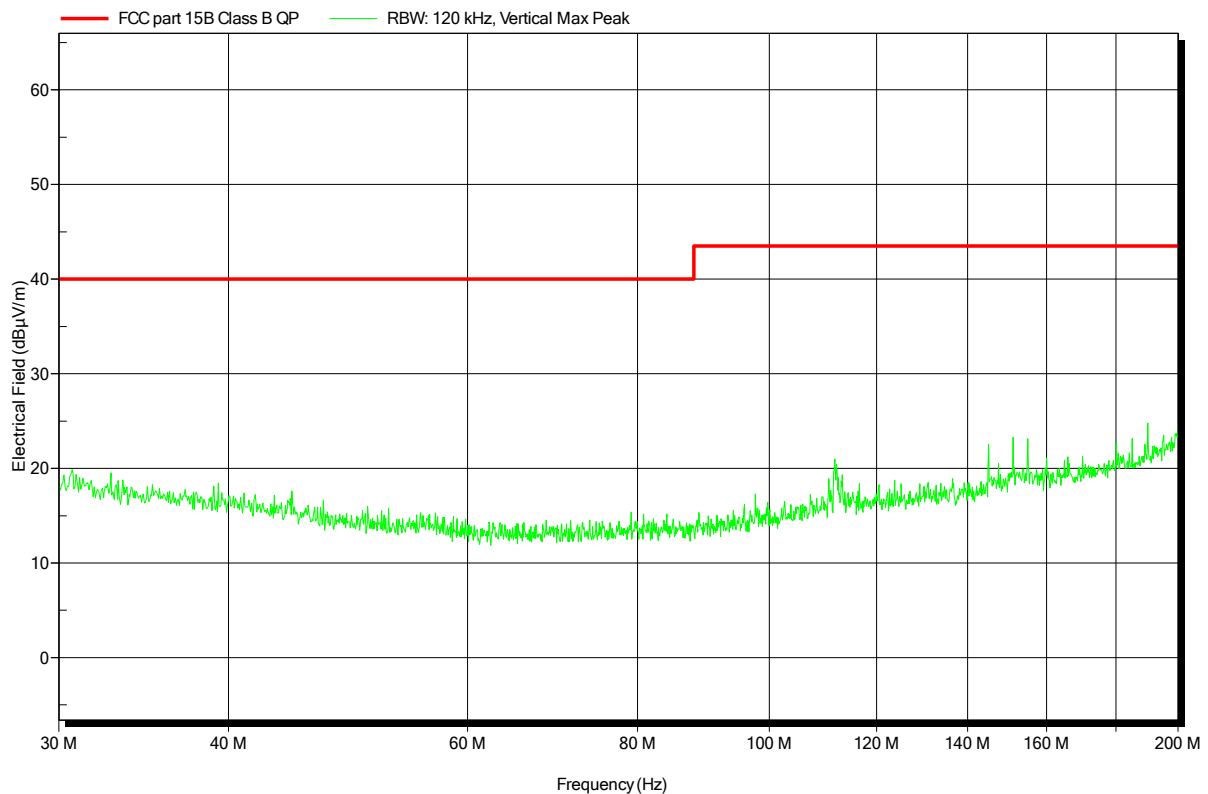


Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant:	Spectralink Europe ApS
EUT Name:	DECT handset 7742/7642
Model:	K023b
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Klein
Test Conditions:	Tnom: 24°C, Unom: 3.7 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3m
Mode:	7642, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
Test Date:	Montag, 1. Juni 2015
Note:	

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Test Report No.: G0M-1505-4755-EF0115B-V01

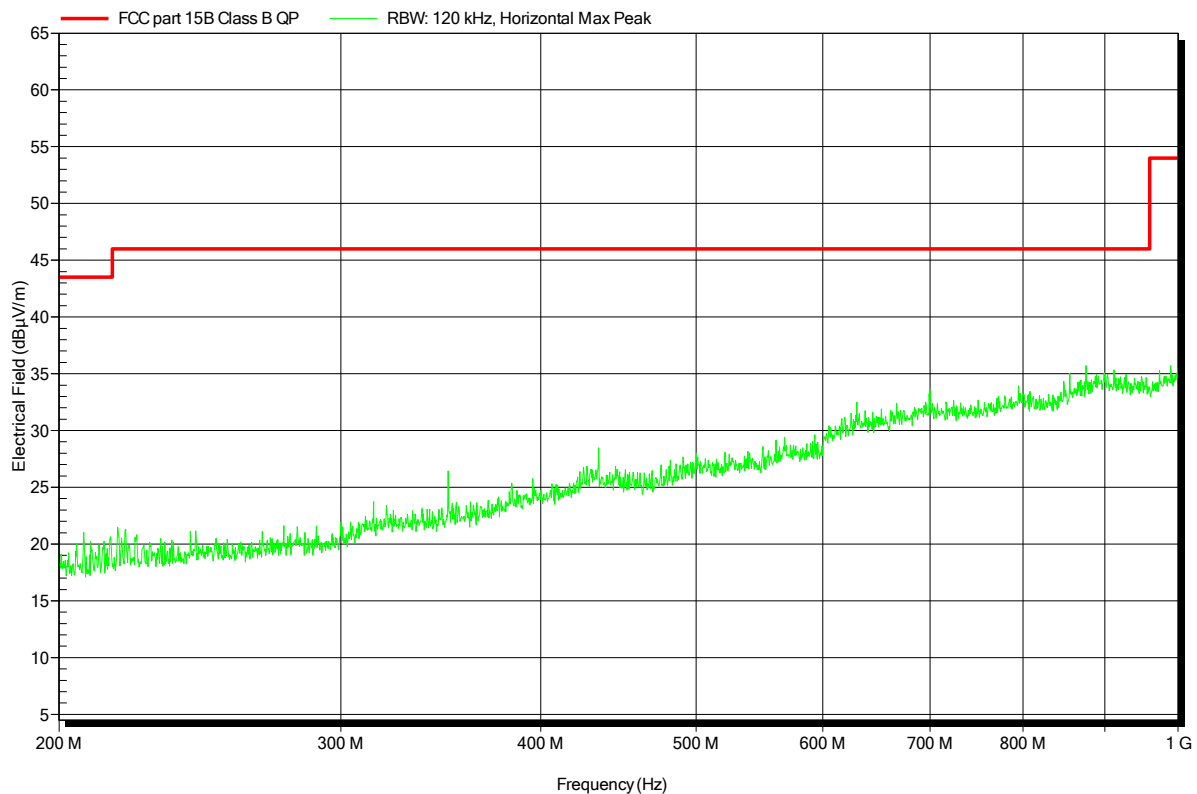
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant:	Spectralink Europe ApS
EUT Name:	DECT handset 7742/7642
Model:	K023b
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Klein
Test Conditions:	Tnom: 24°C, Unom: 3.7 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3m
Mode:	7642, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
Test Date:	Montag, 1. Juni 2015
Note:	

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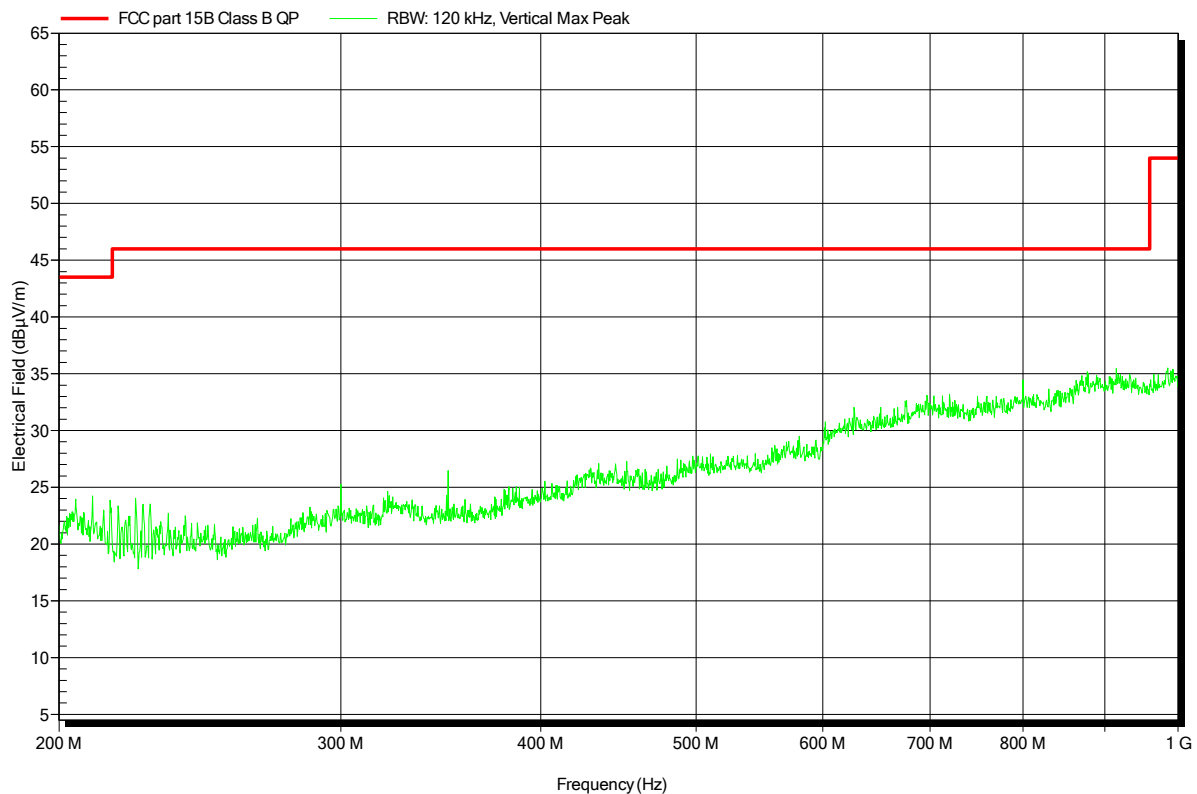


Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant:	Spectralink Europe ApS
EUT Name:	DECT handset 7742/7642
Model:	K023b
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Klein
Test Conditions:	Tnom: 24°C, Unom: 3.7 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3m
Mode:	7642, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
Test Date:	Montag, 1. Juni 2015
Note:	

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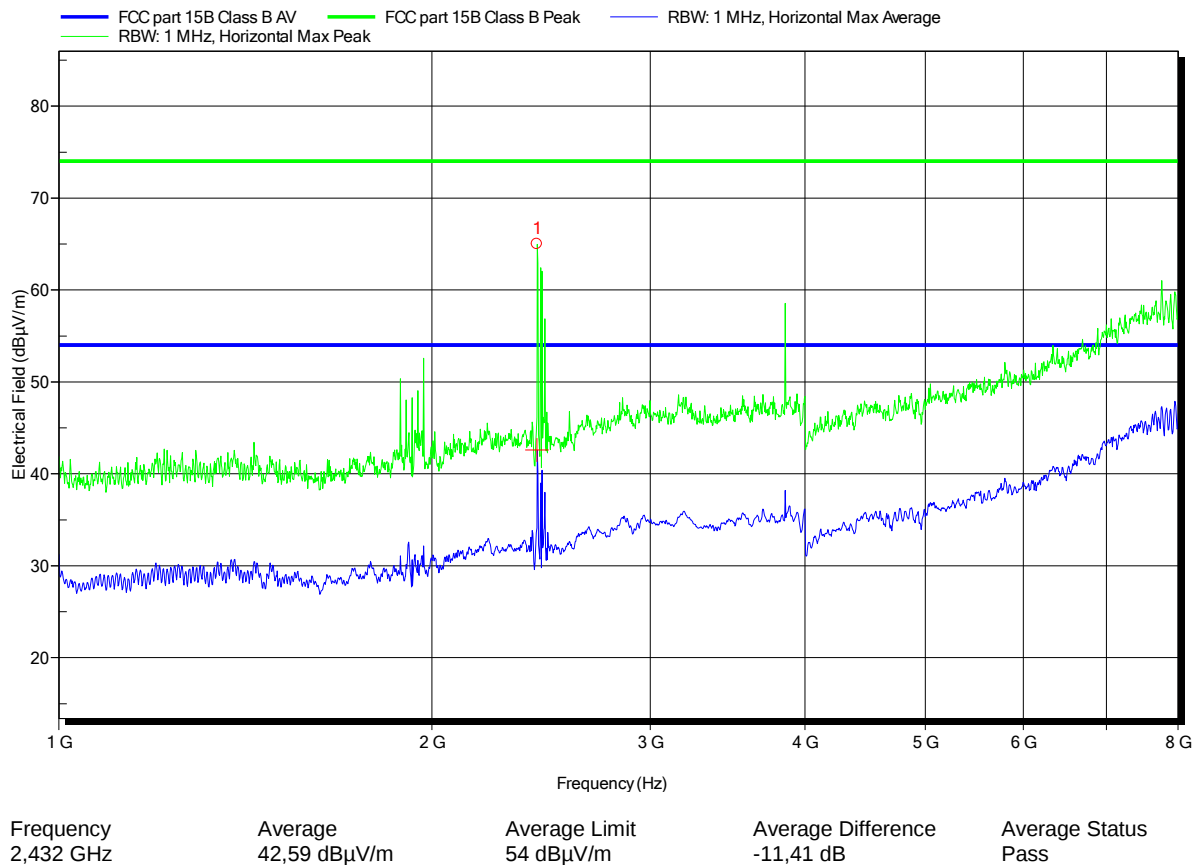


Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023b
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 3.7 VDC
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3m
 Mode: 7642, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note: Peak 1: BT Carrier

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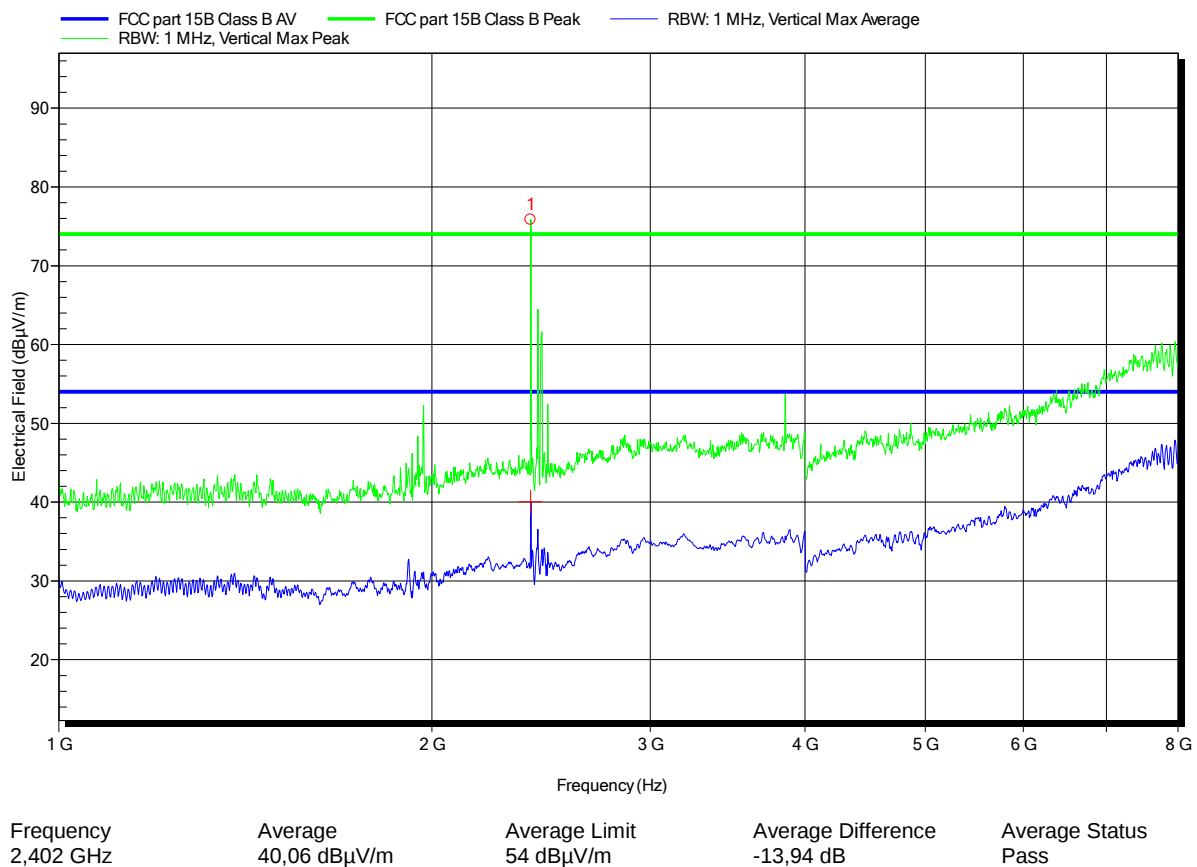


Spurious emissions under normal conditions according to FCC Part 15b

Project number:

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023b
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 24°C, Unom: 3.7 VDC
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3m
 Mode: 7642, connected to companion device and Basestation, BT link to Headset, wired headset termination connected
 Test Date: Montag, 1. Juni 2015
 Note: Peak 1: BT Carrier

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Test Report No.: G0M-1505-4755-EF0115B-V01

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

3.2 Test Conditions and Results – AC power line conducted emissions

Conducted emissions acc. FCC 47 CFR 15.107 / IC RSS-Gen			Verdict: PASS	
Laboratory Parameters:		Required prior to the test		During the test
Ambient Temperature		15 to 35 °C		23°C
Relative Humidity		30 to 60 %		45%
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		
Sample is tested with respect to the requirements of the equipment class		Equipment class		
		Class B		
Points of Application		Application Interface		
AC Mains		LISN		
Operating mode		1		
Configuration		1		
Limits and results Class B				
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.				
For the conducted emission the charger 84642494 was detected as worst. This report shows results with this charger only.				

Test Procedure:

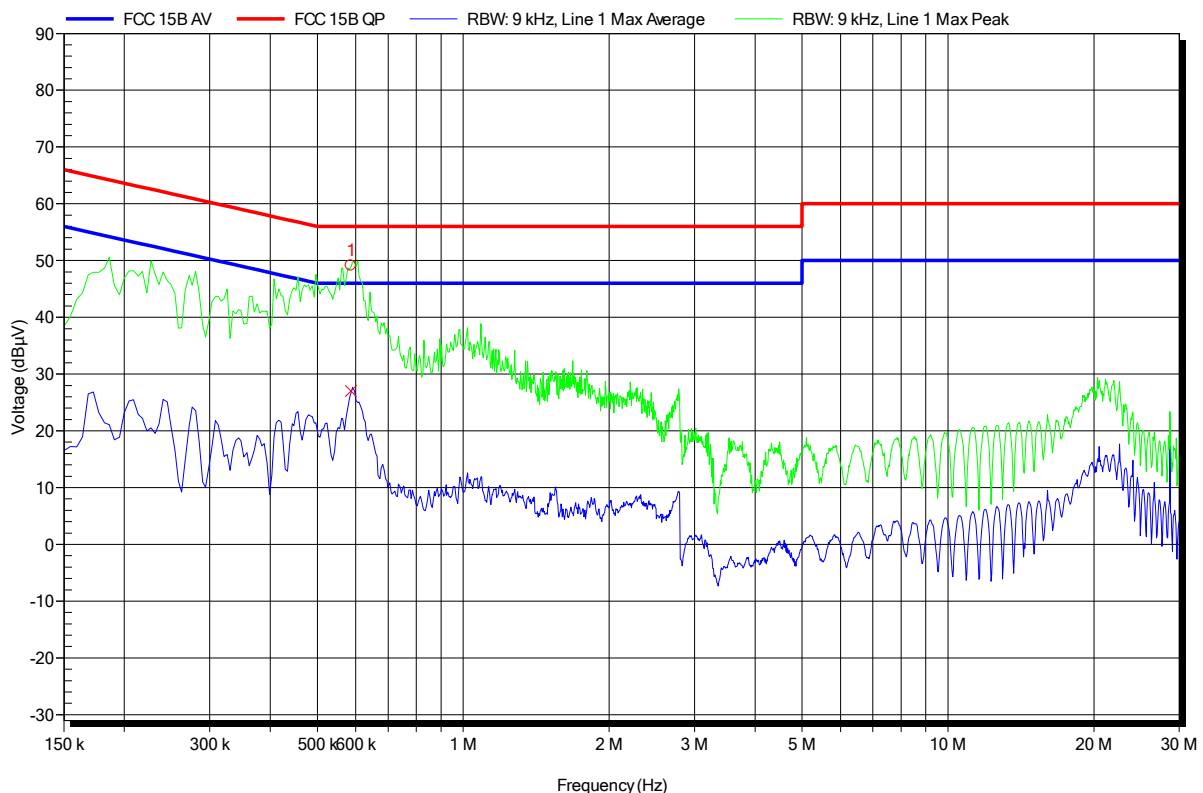
- 1) The EUT was placed on a non conductive table 0.8 m above the reference ground plane and 0.4 m away from the vertical conducting plane (ANSI C63.4: 2009 item 7.3.1)
- 2) The power cord that is normally supplied or recommended by the manufacturer was connected to the LISN.
- 3) The distance between the outer edge of the EUT and the LISN shall be set to 0.8 m. A longer power cord shall be bundled to this length (bundling shall not exceed 40 cm in length).
- 4) The LISN measurement port was connected to a measurement receiver
- 5) I/O cables were bundled not longer than 0.4 m
- 6) Measurement was performed in the frequency range 0.15 – 30MHz on each current-carrying conductor

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

Project number: G0M-1505-4755

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023a
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 23°C, Unom: 120 VAC
 LISN: ESH2-Z5 L
 Mode: 7742, charging in cradle, DECT link to Base/Companion,
 BT Classic to Headset
 Test Date: Montag, 1. Juni 2015
 Note:

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Frequency	Average	Average Limit	Average Difference	Average Status
586,5 kHz	27,03 dBμV	46 dBμV	-18,97 dB	Pass

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

Project number: G0M-1505-4755

Applicant: Spectralink Europe ApS
 EUT Name: DECT handset 7742/7642
 Model: K023a
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Klein
 Test Conditions: Tnom: 23°C, Unom: 120 VAC
 LISN: ESH2-Z5 N
 Mode: 7742, charging in cradle, DECT link to Base/Companion,
 BT Classic to Headset
 Test Date: Montag, 1. Juni 2015
 Note:

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