

Straubing, July 7, 2008

## TEST-REPORT

No. 52305-080802 (Edition 1)

for

## Wheelchair M15 Remote Control

**Remote Control for Wheel Chair** 

Applicant: Ulrich Alber GmbH

Test Specifications: FCC Code of Federal Regulations,

CFR 47, Part 15,

Sections 15.107, 15.109, 15.205, 15.207,

15.215 and 15.249

Industry Canada Radio Standards

**Specifications** 

RSS-Gen Issue 2, Sections 7.2.2, 7.2.3 and

RSS-210 Issue 7, Sections 2.2, A2.9

(Category I Equipment)

#### Note:

The test data of this report is related only to the individual item which has been tested. This report shall not be reproduced except in full extent without the written approval of the testing laboratory.



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## 1 Description of the Equipment Under Test (EUT)

General data of EUT

Type designation<sup>1</sup>: Wheelchair M15 Remote Control

Parts<sup>2</sup>:
Serial number(s): 2930800004

Manufacturer: Ulrich Alber GmbH

Type of equipment: Remote Control for Wheel Chair

Version: As received

FCC ID:

Additional parts/accessories:

Technical data of EUT			
Application frequency range:	2400.0 - 2483.5 MHz		
Frequency range:	2405 - 2465 MHz		
Operating frequency:	2405 MHz, 2425 MHz, 2445 MHz, 2465 MHz		
Type of modulation:	FSK		
Pulse train:	100 ms		
Pulse width:	23.5 ms		
Number of RF-channels:	4		
Channel spacing:	20 MHz		
Designation of emissions <sup>3</sup> :	880kF1D		
Type of antenna:	Integrated		
Size/length of antenna:			
Connection of antenna:	☐ detachable ☐ not detachable		
Type of power supply:	Battery supply		
Specifications for power supply:	nominal voltage: 3.0 V		

<sup>&</sup>lt;sup>1</sup> Type designation of the system if EUT consists of more than one part.

<sup>&</sup>lt;sup>2</sup> Type designations of the parts of the system, if applicable.

<sup>&</sup>lt;sup>3</sup> Also known as "Class of Emission".

**Application details** 



## 2 Administrative Data

Applicant (full address): Ulrich Alber GmbH

Vor dem Weißen Stein 21

D-72461 Albstadt-Tailfingen

Contact person: Mr. Jürgen Schneider

Contract identification: Order 2808395-1

Receipt of EUT: July 2, 2008
Date(s) of test: July 2008

Note(s):

Report details

Report number: 52305-080802

Edition: 1

Issue date: July 7, 2008



## 3 Identification of the Test Laboratory

**Details of the Test Laboratory** 

Company name: Senton GmbH EMI/EMC Test Center

Address: Aeussere Fruehlingstrasse 45

D-94315 Straubing

Germany

Laboratory accreditation: DAR-Registration No. DAT-P-171/94-02

FCC test site registration number 90926 Industry Canada test site registration: 3050A-1

Contact person: Mr. Johann Roidt

Phone: (+49) (0)9421 5522-0 Fax: (+49) (0)9421 5522-99



## 4 Summary

### Summary of test results

The tested sample complies with the requirements set forth in the

Code of Federal Regulations CFR 47, Part 15, Sections 15.109, 15.205, 15.215 and 15.249

of the Federal Communication Commission (FCC) and the

Radio Standards Specifications RSS-Gen Issue 2, Section 7.2.3 and RSS-210 Issue 7, Sections 2.2, 2.6, A2.9 (Category I Equipment)

of Industry Canada (IC).

Personnel involved in this report		
Laboratory Manager:		
	He Col	
	Mr. Johann Roidt	
Responsible for testing:		
	Skinell Martin	
	Mr. Martin Steindl	
Responsible for test report:	Mr. Martin Steindl	



## 5 Operation Mode and Configuration of EUT

### **Operation Modes**

The EUT was configured with a test software to transmit continuously on the lowest (2405 MHz), a middle (2445 MHz) and the highest (2465 MHz) channel and to work in idle-mode. As hand held device full tests were performed in three positions.

## **Configuration of EUT**

The EUT was configured as stand alone device.

List o	List of ports and cables			
Port	Description	Classification <sup>4</sup>	Cable type	Cable length
	Not Applicable			

List of devices connected to EUT			
Item Description  Not Applicable	Type Designation	Serial no. or ID	Manufacturer

List	List of support devices				
Item	Description Not Applicable	Type Designation	Serial no. or ID	Manufacturer	

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<sup>&</sup>lt;sup>4</sup> Ports shall be classified as ac power, dc power or signal/control port



#### 6 Measurement Procedures

### 6.1 Bandwidth Measurements

Measurement Procedure:			
Rules and specifications:	CFR 47 Part 2, section 2.202(a) CFR 47 Part 15, section 15.215(c) IC RSS-Gen Issue 2, sections 4.6.1 and 4.6.2 IC RSS-210 Issue 7, section A1.1.3 ANSI C63.4, annex H.6		
Guide:	ANSI C63.4 / IC RSS-Gen Issue 2, sections 4.6.1 and 4.6.2		
Measurement setup:	☐ Conducted: See below ☐ Radiated: Radiated Emission in Fully or Semi Anechoic Room (6.4)		

If antenna is detachable bandwidth measurements shall be performed at the antenna connector (conducted measurement) when the transmitter is adjusted in accordance with the tune-up procedure, if applicable. The RF output terminals are connected to a spectrum analyzer. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as dc block and appropriate attenuators (50 Ohms). The electrical characteristics of the radio frequency load attached to the output terminals shall be stated, if applicable.

If radiated measurements are performed the same test setups and instruments are used as with radiated emission measurements for the appropriate frequency range.

The analyzer settings are specified by the test description of the appropriate test record(s).



### 6.2 Pulse Train Measurement

Measurement Procedure:		
Rules and specifications:	CFR 47 Part 15, section 15.35(c) IC RSS-Gen Issue 2, section 4.5	
Guide:	ANSI C63.4	
Measurement setup:	☐ Conducted: See below (direct connection or via test fixture) ☐ Radiated: Radiated Emission in Fully or Semi Anechoic Room (6.4)	

If antenna is detachable pulse train measurements shall be performed at the antenna connector (conducted measurement). The RF output terminals are connected to a spectrum analyzer or to a diode detector in combination with an oscilloscope. If required, a resistive matching network equal to the impedance specified or employed for the antenna is used as well as dc block and appropriate attenuators (50 Ohms). The electrical characteristics of the radio frequency load attached to the output terminals shall be stated, if applicable.

If antenna is not detachable a test fixture may be used instead of direct connection to RF output terminals. If radiated measurements are performed similar test setups and instruments are used as with radiated emission measurements for the appropriate frequency range. However, the spectrum analyzer may be replaced by a diode detector connected to an oscilloscope.



### 6.3 Radiated Emission Measurement 9 kHz to 30 MHz

Measurement Procedure:		
Rules and specifications:	CFR 47 Part 15, sections 15.215(b) and 15.231(b)(3) IC RSS-210 Issue 7, section A1.1.2(b)	
Guide:	ANSI C63.4	

Radiated emission in the frequency range 9 kHz to 30 MHz is measured using an active loop antenna. First the whole spectrum of emission caused by the equipment is recorded at a distance of 3 meters in a fully or semi anechoic room with the detector of the spectrum analyzer or EMI receiver set to peak. This configuration is also used for recording the spectrum of intentional radiators.

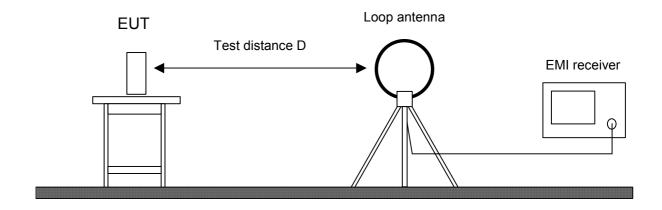
Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.

EUT is rotated all around to find the maximum levels of emissions. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

If worst case emission of the EUT cannot be recorded with EUT in standard position and loop antenna in vertical polarization the EUT (or the radiating part of the EUT) is rotated by 90 degrees instead of changing the loop antenna to horizontal polarization. This procedure is selected to minimize the influence of the environment (e.g. effects caused by the floor especially with longer distances).

Final measurement is performed at a test distance D of 30 meters using an open field test site. In case the regulation requires testing at other distances, the result is extrapolated by either making measurements at an additional distance D of 10 meters to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). In cases of very low emissions measurements are performed at shorter distances and results are extrapolated to the required distance. The provisions of CFR 47 Part 15 sections 15.31(d) and (f)(2) apply. According to CFR 47 Part 15 section 15.209(d) final measurement is performed with detector function set to quasi-peak except for the frequency bands 9 to 90 kHz and 110 to 490 kHz where, for non-pulsed operation, average detector is employed.

If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.





## Test instruments used:

Used	Туре	Model	Serial No. or ID	Manufacturer
$\boxtimes$	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
	EMI test receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
$\boxtimes$	Test receiver	ESHS 10	860043/016	Rohde & Schwarz
	Preamplifier	CPA9231A	3393	Schaffner
$\boxtimes$	Loop antenna	HFH2-Z2	882964/1	Rohde & Schwarz
$\boxtimes$	Fully anechoic room	No. 2	1452	Albatross Projects
	Semi-anechoic room	No. 3	1453	Siemens
$\boxtimes$	Open field test site	EG 1	1450	Senton



## 6.4 Radiated Emission in Fully or Semi Anechoic Room

Measurement Procedure:		
Rules and specifications:	CFR 47 Part 15, sections 15.109, 15.215(b) and 15.249 IC RSS-Gen Issue 2, sections 6(a), 7.2.3.2 IC RSS-210 Issue 7, section A2.9	
Guide:	ANSI C63.4	

Radiated emission in fully or semi anechoic room is measured in the frequency range from 30 MHz to the maximum frequency as specified in CFR 47 Part 15 section 15.33.

Measurements are made in both the horizontal and vertical planes of polarization in a fully anechoic room using a spectrum analyzer with the detector function set to peak and resolution as well as video bandwidth set to 100 kHz (below 1 GHz) or 1 MHz (above 1 GHz).

Testing up to 1 GHz is performed with a linear polarized logarithmic periodic antenna combined with a 4:1 broadband dipole ("Trilog broadband antenna"). For testing above 1 GHz horn antennas are used.

All tests below 18 GHz are performed at a test distance D of 3 meters. For higher frequencies the test distance is reduced (e.g. to 1 meter) due to the sensitivity of the measuring instrument(s) and the test results are calculated according to CFR 47 Part 15 section 15.31(f)(1) using an extrapolation factor of 20 dB/decade. If required, preamplifiers are used for the whole frequency range. Special care is taken to avoid overload, using appropriate attenuators and filters, if necessary.

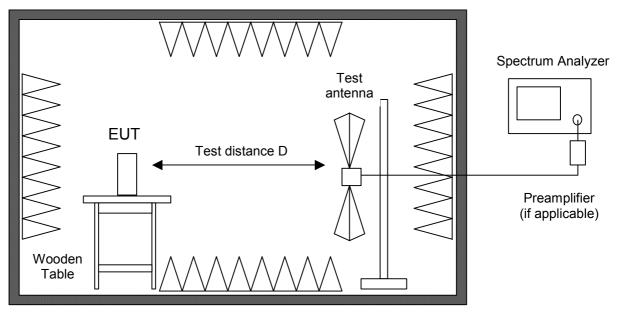
If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.

Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing.

During testing the EUT is rotated all around to find the maximum levels of emissions. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

For final testing below 1 GHz an open field test-site is used and the plots recorded in the fully or semi anechoic room are indicated as prescans.





Fully or semi anechoic room

## Test instruments used:

Used	Туре	Model	Serial No. or ID	Manufacturer
	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
	EMI test receiver	ESPI7	101018	Rohde & Schwarz
	EMI test receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
$\boxtimes$	Preamplifier	CPA9231A	3393	Schaffner
	Preamplifier	R14601		Advantest
$\boxtimes$	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
	Preamplifier 0.5-8 GHz	AMF-4D-005080-25-13P	860149	Miteq
$\boxtimes$	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
	External Mixer	WM782A	845881/005	Tektronix
	Harmonic Mixer	FS-Z30	843389/007	Rohde & Schwarz
	Accessories			
	Trilog broadband antenna	VULB 9163	9163-188	Schwarzbeck
	Horn antenna	3115	9508-4553	EMCO
	Horn antenna	3160-03	9112-1003	EMCO
	Horn antenna	3160-04	9112-1001	EMCO
$\boxtimes$	Horn antenna	3160-05	9112-1001	EMCO
$\boxtimes$	Horn antenna	3160-06	9112-1001	EMCO
$\boxtimes$	Horn antenna	3160-07	9112-1008	EMCO
$\boxtimes$	Horn antenna	3160-08	9112-1002	EMCO
$\boxtimes$	Horn antenna	3160-09	9403-1025	EMCO
	Horn antenna	3160-10	399185	EMCO
$\boxtimes$	Fully anechoic room	No. 2	1452	Albatross Projects
	Semi-anechoic room	No. 3	1453	Siemens



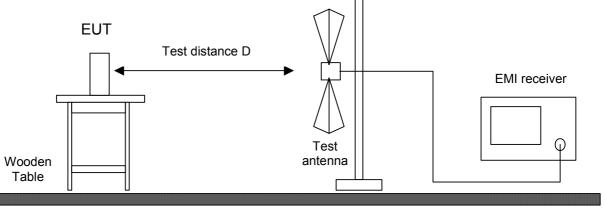
## 6.5 Radiated Emission at Open Field Test Site

Measurement Procedure:	
Rules and specifications:	CFR 47 Part 15, sections 15.109, 15.215(b) and 15.249 IC RSS-Gen Issue 2, sections 6(a), 7.2.3.2 IC RSS-210 Issue 7, section A2.9
Guide:	ANSI C63.4

Radiated emission at open field test site is measured in the frequency range 30 MHz to 1 GHz using a biconical antenna up to 300 MHz and a logarithmic periodic antenna above. The measurement bandwidth of the test receiver is set to 120 kHz with guasi-peak detector selected.

If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value. Hand-held or body-worn devices are tested in the position producing the highest emission relative to the limit as verified by prescans in the fully anechoic room. EUT is rotated all around and receiving antenna is raised and lowered within 1 meter to 4 meters to find the maximum levels of emission. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions.

For measuring emissions of intentional radiators and receivers a test distance D of 3 meters is selected. Testing of unintentional radiators is performed at a distance of 10 meters. If limits specified for 3 meters shall be used for measurements performed at 10 meters distance the limits are calculated according to CFR 47 Part 15 section 15.31(d) and (f)(1) using an inverse linear-distance extrapolation factor of 20 dB/decade.



Ground plane

#### Test instruments used:

Used	Туре		Model	Serial No. or ID	Manufacturer
$\boxtimes$	EMI receiver		ESVP	881120/024	Rohde & Schwarz
$\boxtimes$	Biconical antenna	EG 1	HK 116	842204/001	Rohde & Schwarz
$\boxtimes$	Log. per. antenna	EG 1	HL 223	841516/023	Rohde & Schwarz
$\boxtimes$	Open field test site		EG 1	1450	Senton



# 7 Photographs Taken During Testing



# Test setup for radiated emission measurement 9 kHz - 30 MHz





# Test setup for radiated emission measurement (fully anechoic room)







# Test setup for radiated emission measurement (fully anechoic room) - continued -





# Test setup for radiated emission measurement (open field test site)







# Test setup for radiated emission measurement (open field test site) - continued -







## 8 Test Results for Transmitter

FCC CFR 47 Parts 2 and 15			
Section(s)	Test	Page	Result
2.1046(a)	Conducted output power		Not applicable
2.202(a)	Occupied bandwidth	23	Recorded
15.215(c)	Bandwidth of the emission	31	Test passed
2.201, 2.202	Class of emission	35	Calculated
15.35(c)	Pulse train measurement for pulsed operation	36	Recorded
15.205(a)	Restricted bands of operation	46	Test passed
15.207	Conducted AC powerline emission 150 kHz to 30 MHz		Not applicable
15.205(b) 15.249	Radiated emission 9 kHz to 30 MHz	50	Test passed
15.205(b) 15.215(b) 15.249	Radiated emission 30 MHz to 25 GHz	51	Test passed



IC RSS-Gen Issue 2			
Section(s)	Test	Page	Result
4.8	Transmitter output power (conducted)		Not applicable
4.6.1	Occupied Bandwidth	23	Recorded
3.2(h), 8	Designation of emissions	35	Calculated
4.5	Pulsed operation	36	Recorded
7.2.2	Transmitter AC power lines conducted emissions 150 kHz to 30 MHz		Not applicable
5.5	Exposure of Humans to RF Fields	55	Exempted from SAR and RF evaluation

IC RSS-210 Issue 7			
Section(s)	Test	Page	Result
2.2(a)	Restricted bands and unwanted emission frequencies	46	Test passed
2.2(b)(c), 2.6 A2.9	Unwanted emissions 9 kHz to 30 MHz	50	Test passed
2.2(b)(c), 2.6 A2.9	Unwanted emissions 30 MHz to 25 GHz	51	Test passed

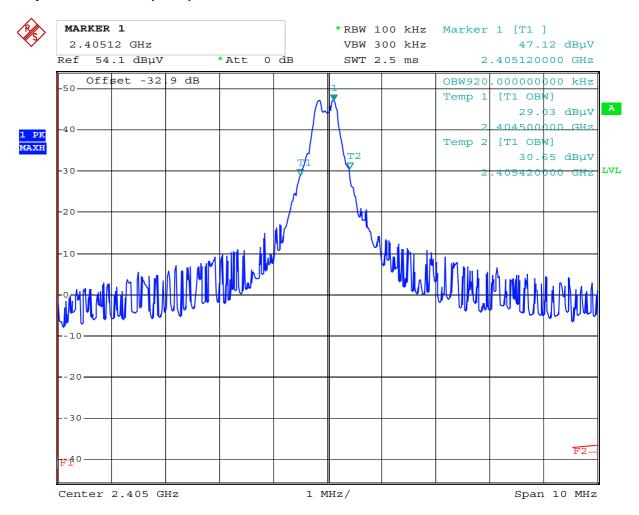


# 8.1 Occupied Bandwidth

Rules and specifications:	CFR 47 Part 2, section 2.202(a) ANSI C63.4, annex H.6	
Guide:	ANSI C63.4	
Description:	The occupied bandwidth according to CFR 47 Part 2, section 2.202(a), is measured as the 99% emission bandwidth, i.e. below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5% of the total mean power radiated by a given emission.  The occupied bandwidth according to ANSI C63.4, annex H.6; is measure as the frequency range defined by the points that are 26 dB down relative the maximum level of the modulated carrier.  The resolution bandwidth of the spectrum analyzer shall be set to a value greater than 5.0% of the allowed bandwidth. If no bandwidth specification are given, the following guidelines are used:	
	Fundamental frequency	Minimum resolution bandwidth
	9 kHz to 30 MHz	1 kHz
	30 MHz to 1000 MHz	10 kHz
	1000 MHz to 40 GHz	100 kHz
	The video bandwidth shall be at least three times greater than resolution bandwidth.	
Measurement procedure:	Bandwidth Measurements (6.1)	

Comment:	Transmitting on lowest, middle and highest frequency
Date of test:	July 2, 2008
Test site:	Fully anechoic room, cabin no. 2

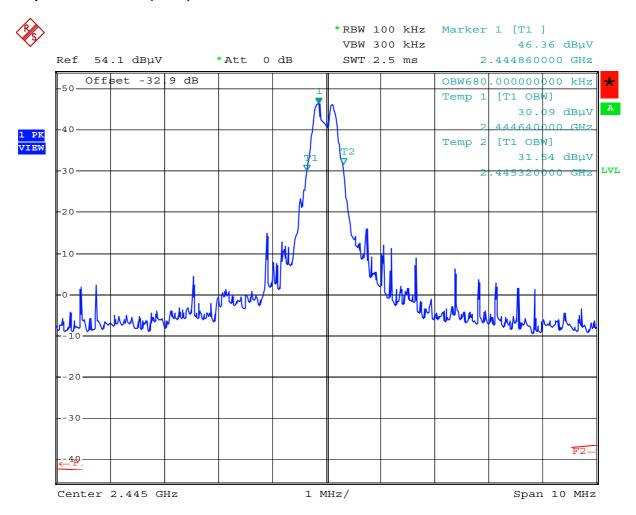




Date: 2.JUL.2008 15:46:34

Occupied Bandwidth (99 %): 920 kHz

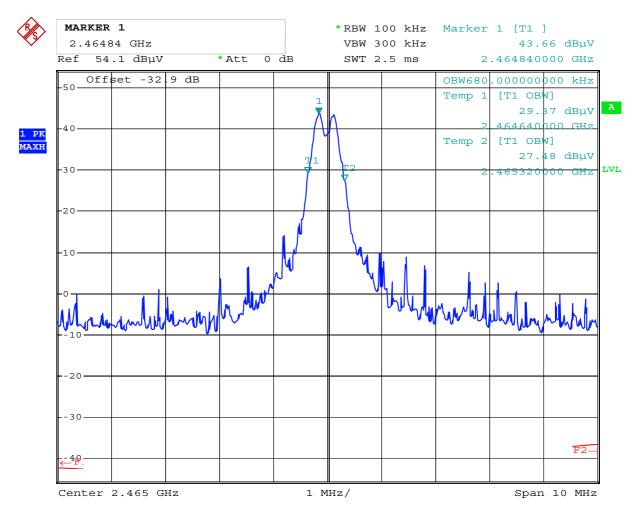




Date: 2.JUL.2008 15:53:29

Occupied Bandwidth (99 %): 680 kHz





Date: 2.JUL.2008 15:54:36

Occupied Bandwidth (99 %): 680 kHz

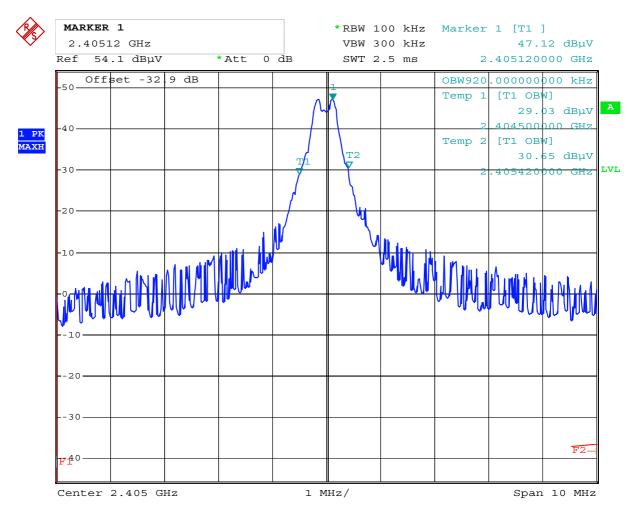


# **Occupied Bandwidth (continued)**

Rules and specifications:	IC RSS-Gen Issue 2, section 4.6.1
Guide:	IC RSS-Gen Issue 2, section 4.6.1
Description:	If not specified in the applicable RSS the occupied bandwidth is measuredas the 99% emission bandwidth.  The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth.  The trace data points are recovered and are directly summed in linear terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached and that frequency recorded. The process is repeated for the highest frequency data points. This frequency is also recorded. The span between the two recorded frequencies is the occupied bandwidth.
Measurement procedure:	Bandwidth Measurements (6.1)

ſ	Comment:	
ı	Date of test:	July 2, 2008
١	Test site:	Fully anechoic room, cabin no. 2

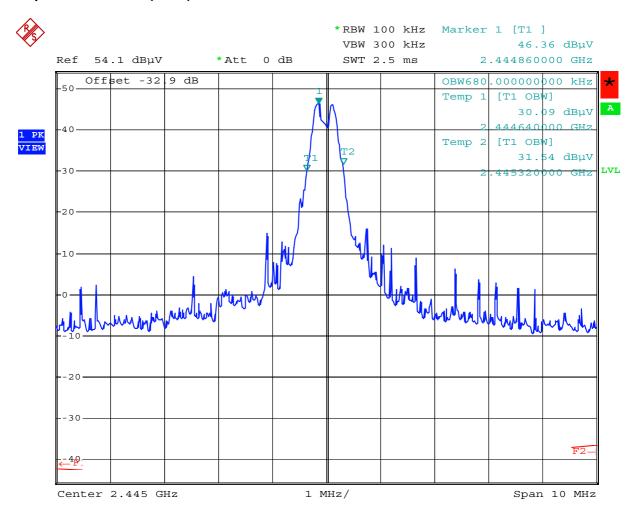




Date: 2.JUL.2008 15:46:34

Occupied Bandwidth (99 %): 920 kHz

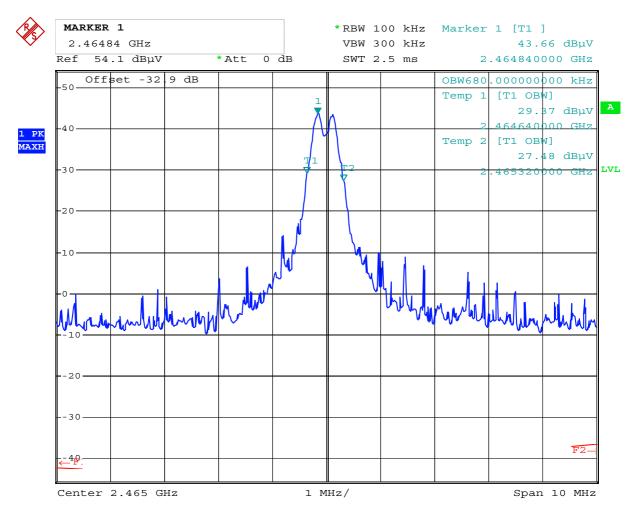




Date: 2.JUL.2008 15:53:29

Occupied Bandwidth (99 %): 680 kHz





Date: 2.JUL.2008 15:54:36

Occupied Bandwidth (99 %): 680 kHz

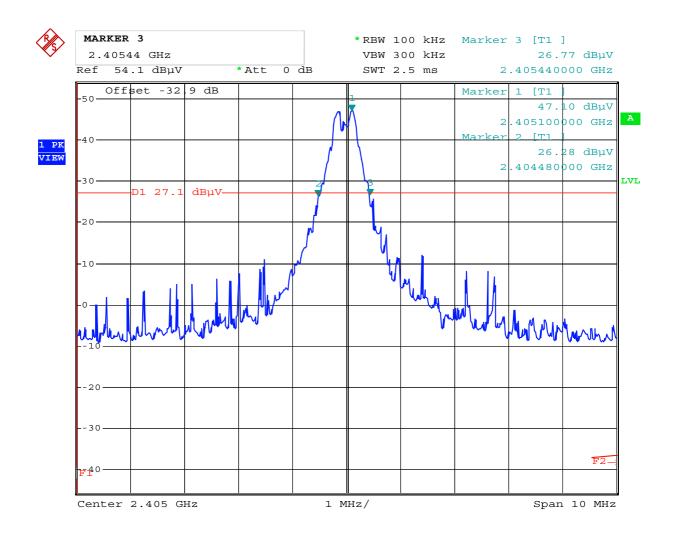


## 8.2 Bandwidth of the Emission

Rules and specifications:	CFR 47 Part 15, section 15.215(c)	
Guide:	ANSI C63.4	
Description:	The 20 dB bandwidth of the emission is measured as the frequency range defined by the points that are 20 dB down relative to the maximum level of the modulated carrier.  For intentional radiators operating under the alternative provisions to general emission limits the requirement to contain the 20 dB bandwidth of the emission within the specified frequency band includes the effect from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least to central 80% of the permitted band in order to minimize the possibility out-of-band operation.  The resolution bandwidth of the spectrum analyzer shall be set to a value greater than 5.0% of the allowed bandwidth. If no bandwidth specifications are given, the following guidelines are used:	
	Fundamental frequency	Minimum resolution bandwidth
	9 kHz to 30 MHz	1 kHz
	30 MHz to 1000 MHz 10 kHz	
	1000 MHz to 40 GHz	100 kHz
	The video bandwidth shall be at least three times greater than the resolution bandwidth.	
Measurement procedure:	Bandwidth Measurements (6.1)	



Comment:	Transmitting on lowest frequency
Date of test:	July 2, 2008
Test site:	Fully anechoic room, cabin no. 2



Date: 2.JUL.2008 15:47:07

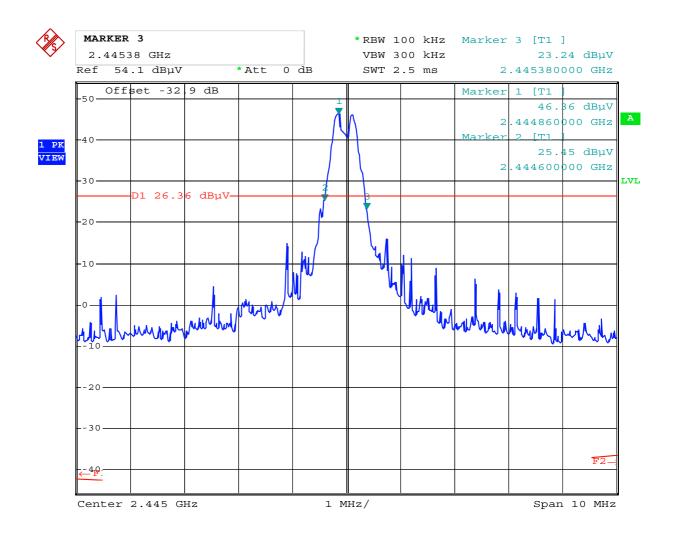
Permitted frequency band:	2400.0 - 2483.5 MHz	
20 dB bandwidth:	960 kHz	
Carrier frequency stability: Maximum frequency tolerances:	specified	⊠ not specified
Bandwidth of the emission:	960 kHz	within permitted frequency band <sup>5</sup> :  ☐ yes ☐ no

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<sup>&</sup>lt;sup>5</sup> If a frequency stability is not specified, it is recommended that the fundamental emission is kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.



Comment:	Transmitting on middle frequency
Date of test:	July 2, 2008
Test site:	Fully anechoic room, cabin no. 2



Date: 2.JUL.2008 15:53:08

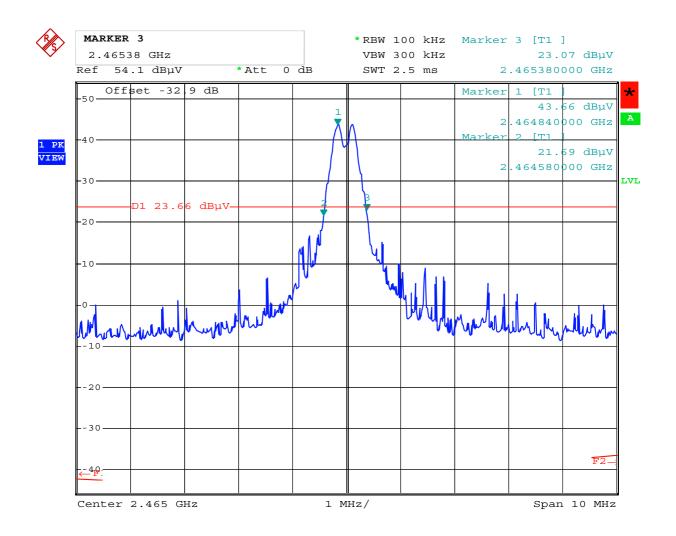
Permitted frequency band:	2400.0 - 2483.5 MHz	
20 dB bandwidth:	780 kHz	
Carrier frequency stability: Maximum frequency tolerances:	specified	⊠ not specified
Bandwidth of the emission:	780 kHz	within permitted frequency band <sup>6</sup> :  ☐ yes ☐ no

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<sup>&</sup>lt;sup>6</sup> If a frequency stability is not specified, it is recommended that the fundamental emission is kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.



Comment:	Transmitting on highest frequency
Date of test:	July 2, 2008
Test site:	Fully anechoic room, cabin no. 2



Date: 2.JUL.2008 15:55:14

Permitted frequency band:	2400.0 - 2483.5 MHz	
20 dB bandwidth:	800 kHz	
Carrier frequency stability: Maximum frequency tolerances:	specified	⊠ not specified
Bandwidth of the emission:	800 kHz	within permitted frequency band <sup>7</sup> :  ☐ yes ☐ no

<sup>&</sup>lt;sup>7</sup> If a frequency stability is not specified, it is recommended that the fundamental emission is kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.



# 8.3 Designation of Emissions

Rules and specifications:	CFR 47 Part 2, sections 2.201 and 2.202 IC RSS-Gen Issue 2, sections 3.2(h) and 8
Guide:	ANSI C63.4 / TRC-43

Type of modulation:	Frequency Shift Keying (FSK)
---------------------	------------------------------

B <sub>n</sub> = Necessary Bandwidth	$B_n = 2DK + B$
D = Peak deviation	D = 210 kHz
K = Overall numerical factor	K = 1
B = Modulation rate	B = 230 kHz
Calculation:	B <sub>n</sub> = 2 · (230 kHz) · 1 + 2 · (210 kHz) = 880 kHz

Designation of Emissions:
---------------------------



## 8.4 Pulse Train Measurement

Rules and specifications:	CFR 47 Part 15, section 15.35(c) IC RSS-Gen Issue 2, section 4.5
Guide:	ANSI C63.4
Measurement procedure:	Pulse Train Measurement (6.2)



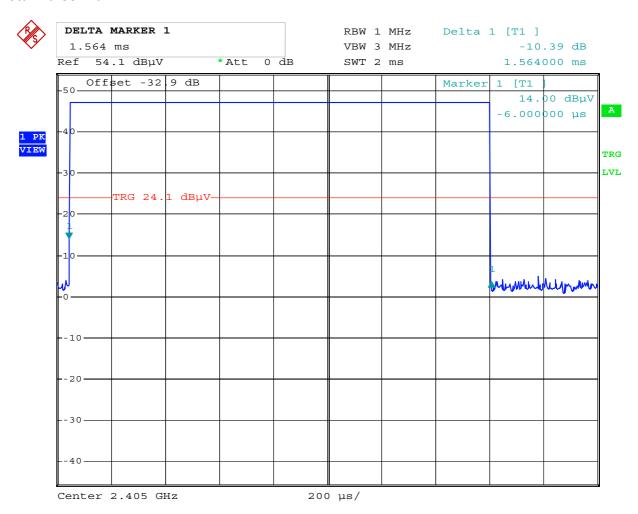
Comment:	Transmitting on lowest channel
Date of test:	July 2, 2008
Test site:	Fully anechoic room, cabin no. 2

#### Calculation of pulse train correction:

TX-On-Time (worst case):	T <sub>on</sub>	=	15 · 1.564 ms = 23.46 ms
Pulse Train Time:	$T_{pt}$	=	100 ms
Period Time:	T <sub>period</sub>	=	100 ms
Pulse Train Correction:	C <sub>pt</sub>	=	20 · Log(T <sub>on</sub> / T <sub>period</sub> ) dB
_		=	-12.59 dB



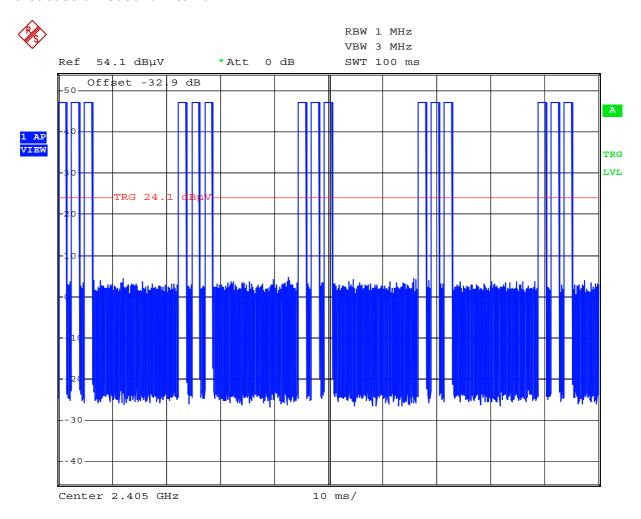
#### **Total Pulse Train:**



Date: 2.JUL.2008 15:48:55



#### Worst case 0.1 second interval:



Date: 2.JUL.2008 15:49:15



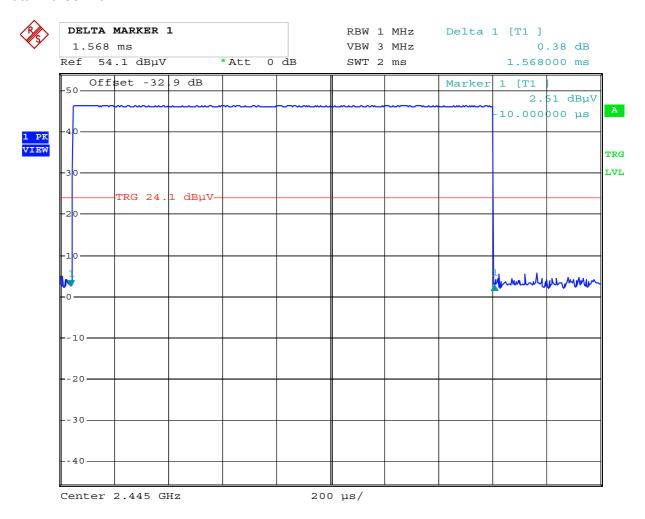
Comment:	Transmitting on middle channel
Date of test:	July 2, 2008
Test site:	Fully anechoic room, cabin no. 2

#### Calculation of pulse train correction:

TX-On-Time (worst case):	T <sub>on</sub>	=	15 · 1.568 ms = 23.52 ms
Pulse Train Time:	$T_{pt}$	=	100 ms
Period Time:	T <sub>period</sub>	=	100 ms
Pulse Train Correction:	C <sub>pt</sub>	=	20 · Log(T <sub>on</sub> / T <sub>period</sub> ) dB
		=	-12.57 dB



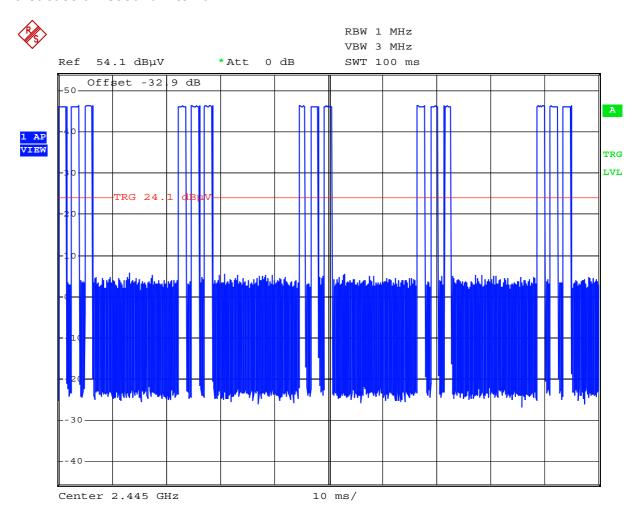
#### **Total Pulse Train:**



Date: 2.JUL.2008 15:50:28



#### Worst case 0.1 second interval:



Date: 2.JUL.2008 15:49:57



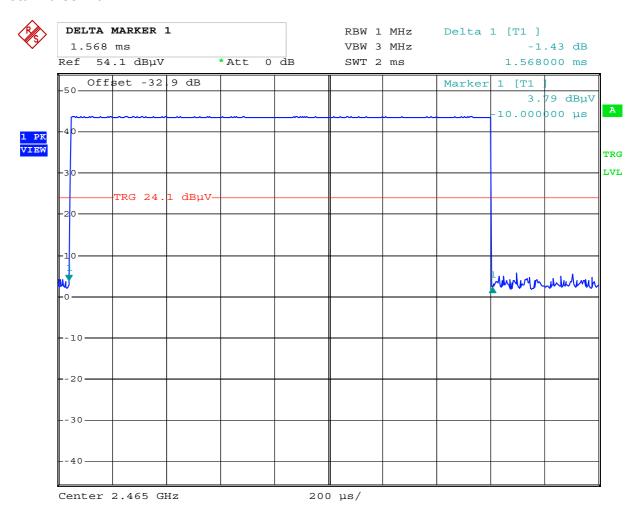
Comment:	Transmitting on highest channel
Date of test:	July 2, 2008
Test site:	Fully anechoic room, cabin no. 2

#### Calculation of pulse train correction:

TX-On-Time (worst case):	T <sub>on</sub>	=	15 · 1.568 ms = 23.52 ms
Pulse Train Time:	$T_{pt}$	=	100 ms
Period Time:	Tperiod	=	100 ms
Pulse Train Correction:	C <sub>pt</sub>	=	20 · Log(T <sub>on</sub> / T <sub>period</sub> ) dB
		=	-12.57 dB



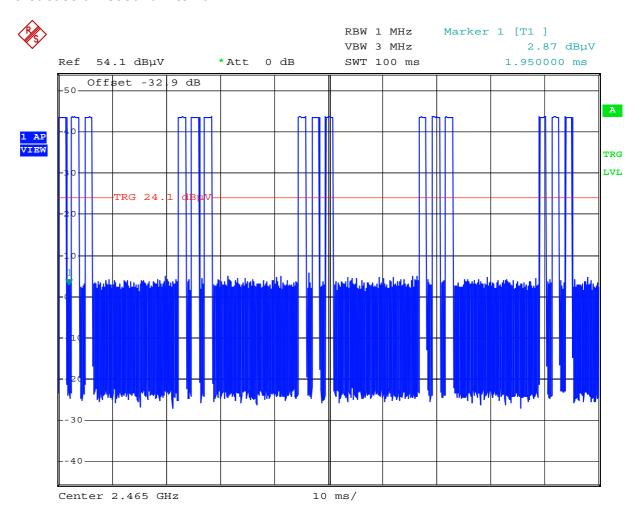
#### **Total Pulse Train:**



Date: 2.JUL.2008 15:57:41



#### Worst case 0.1 second interval:



Date: 2.JUL.2008 15:57:10



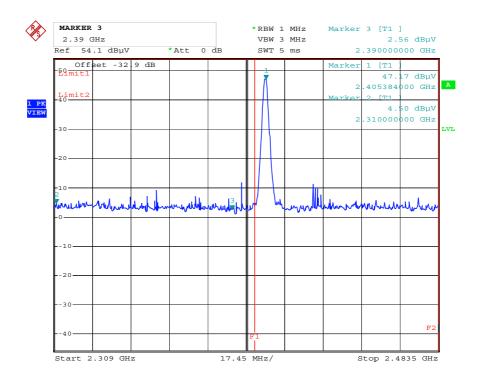
## 8.5 Restricted Bands of Operation

Rules and specifications:	CFR 47 Part 15, section 15.205(a) IC RSS-210 Issue 7, section 2.2(a)
Guide:	ANSI C63.4
Limit:	Only spurious emissions are permitted in any of the frequency bands listed in CFR 47 Part 15, section 15.205(a) or IC RSS-210 Issue 7, section 2.2(a).
Measurement procedure:	Radiated Emission in Fully or Semi Anechoic Room (6.4)

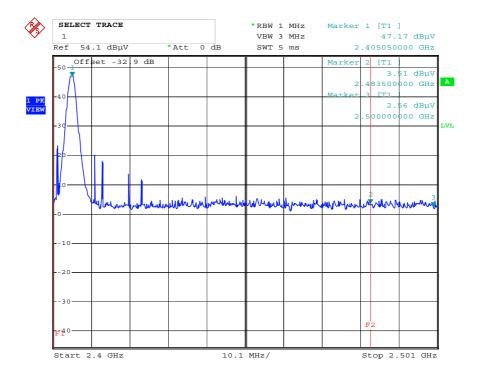
Comment:	
Date of test:	July 2, 2008
Test site:	Fully anechoic room, cabin no. 2
Test distance:	3 meters

Test Result:	Test passed
--------------	-------------



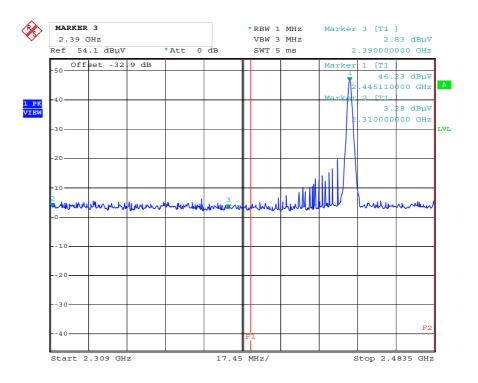


Date: 2.JUL.2008 15:43:42

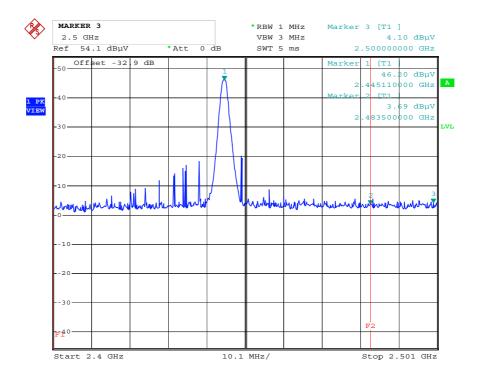


Date: 2.JUL.2008 15:45:35



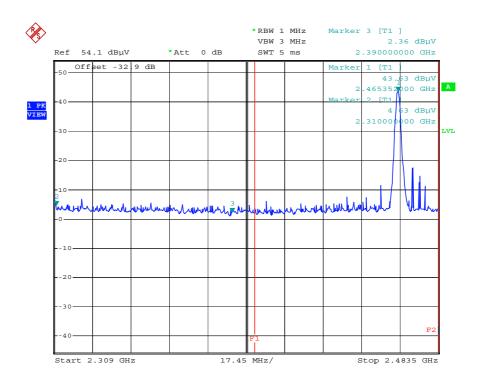


Date: 2.JUL.2008 15:51:50

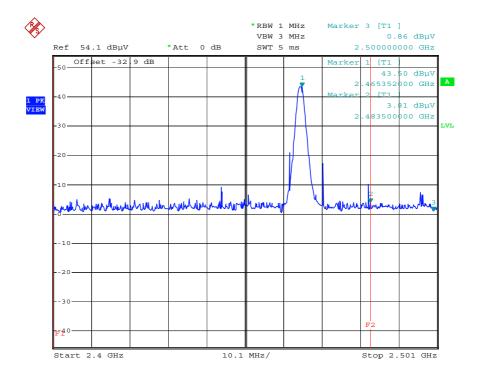


Date: 2.JUL.2008 15:52:20





Date: 2.JUL.2008 15:56:04



2.JUL.2008 15:56:41



## 8.6 Radiated Emission Measurement 9 kHz to 30 MHz

Rules and specifications:	CFR 47 Part 15, sections 15.215(b) and 15.231(b)(3) IC RSS-210 Issue 7, section A1.1.2(b)			
Guide:	ANSI C63.4			
Limit:	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			
	0.009 - 0.490	2400/F(kHz)	67.6 - 20 · log(F(kHz))	300
	0.490 - 1.705	24000/F(kHz)	87.6 - 20 · log(F(kHz))	30
	1.705 - 30.000	30	29.5	30
	Additionally, the lev of the fundamental		ed emissions shall not ex	ceed the level
Measurement procedure:	Radiated Emission Measurement 9 kHz to 30 MHz (6.3)			

Comment:	
Date of test:	July 3, 2008
Test site:	Open field test site

Test Result:
--------------

No emissions above noise level detected



### 8.7 Radiated Emission Measurement 30 MHz to 25 GHz

Rules and specifications:	CFR 47 Part 15, sections 15.215(b) and 15.249 IC RSS-210 Issue 7, section A2.9					
Guide:	ANSI C63.4	ANSI C63.4				
Limit:	Frequency of Emission (MHz)	Field Strength (μV/m)	Field Strength (dBµV/m)			
-	30 - 88	100	40.0			
	88 - 216	150	43.5			
	216 - 960	200	46.0			
	Above 960	500	54.0			
	Additionally, the level of a of the fundamental emiss	any unwanted emissions s	hall not exceed the level			
Measurement procedures:	Radiated Emission in Fully or Semi Anechoic Room (6.4) Radiated Emission at Open Field Test Site (6.5)					

Test Result:	Test passed	
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Comment:	Transmitting on lowest channel	
Date of test:	July 1, 2008, July 2, 2008 July 4, 2008	
Test site:	Frequencies ≤ 1 GHz: Open field test : Frequencies > 1 GHz: Fully anechoic r	
Test distance:	Frequencies ≤ 1 GHz: Frequencies > 1 GHz and ≤ 18 GHz: Frequencies > 18 GHz:	3 meters 1 meters <sup>8</sup> 0.5 meters <sup>8</sup>

Frequency	Antenna	Detector	Receiver	Correction	Pulse Train	Final	Limit	Margin
	Polarization		Reading	Factor	Correction	Value		
(MHz)			(dBµV)	(dB/m)	(dB)	$(dB\mu V/m)$	(dBµV/m)	(dB)
2405.000	horizontal	Peak	54.9	33.4	-12.6	75.7	94.0	18.3
4808.800	horizontal	Peak	17.9	34.3	-12.6	39.5	54.0	14.5
7217.700	horizontal	Peak	15.7	39.0	-12.6	42.0	54.0	12.0
9619.600	horizontal	Peak	17.5	44.1	-12.6	49.1	63.5	14.5
12026.200	vertical	Peak	11.0	46.0	-12.6	44.4	63.5	19.1
12030.400	vertical	Peak	10.9	46.0	-12.6	44.3	63.5	19.2
12337.000	horizontal	Peak	7.4	46.2	-12.6	41.0	63.5	22.5

### Sample calculation of final values:

Final Value (dB $\mu$ V/m) = Reading Value (dB $\mu$ V) + Correction Factor (dB/m) + Pulse Train Correction (dB)

<sup>&</sup>lt;sup>8</sup> Limit corrected with 20 dB/decade.



Comment:	Transmitting on middle channel	
Date of test:	July 1, 2008, July 2, 2008 July 4, 2008	
Test site:	Frequencies ≤ 1 GHz: Open field tes Frequencies > 1 GHz: Fully anechoic	
Test distance:	Frequencies ≤ 1 GHz: Frequencies > 1 GHz and ≤ 18 GHz: Frequencies > 18 GHz:	3 meters 1 meters <sup>9</sup> 0.5 meters <sup>9</sup>

Test Result:	Test passed

Frequency	Antenna	Detector	Receiver	Correction	Pulse Train	Final	Limit	Margin
	Polarization		Reading	Factor	Correction	Value		
(MHz)			(dBµV)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2445.000	vertical	Peak	57.0	33.5	-12.6	78.0	94.0	16.0
4888.600	horizontal	Peak	18.1	34.3	-12.6	39.9	54.0	14.1
4892.400	vertical	Peak	10.5	34.3	-12.6	32.3	54.0	21.7
9779.200	vertical	Peak	12.2	44.2	-12.6	43.9	63.5	19.6
9783.400	horizontal	Peak	14.9	44.3	-12.6	46.5	63.5	17.0

### Sample calculation of final values:

Final Value (dB $\mu$ V/m) = Reading Value (dB $\mu$ V) + Correction Factor (dB/m) + Pulse Train Correction (dB)

<sup>&</sup>lt;sup>9</sup> Limit corrected with 20 dB/decade.



Comment:	Transmitting on highest channel	
Date of test:	July 1, 2008, July 2, 2008 July 4, 2008	
Test site:	Frequencies ≤ 1 GHz: Open field test : Frequencies > 1 GHz: Fully anechoic r	
Test distance:	Frequencies ≤ 1 GHz: Frequencies > 1 GHz and ≤ 18 GHz: Frequencies > 18 GHz:	3 meters 1 meters <sup>10</sup> 0.5 meters <sup>10</sup>

Test Result:	Test passed

Frequency	Antenna	Detector	Receiver	Correction	Pulse Train	Final	Limit	Margin
	Polarization		Reading	Factor	Correction	Value		
(MHz)			(dBµV)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)
2465.000	vertical	Peak	54.5	33.5	-12.6	75.5	94.0	18.5
4930.400	horizontal	Peak	18.5	34.4	-12.6	40.4	54.0	13.7
9863.200	horizontal	Peak	15.3	44.3	-12.6	47.0	63.5	16.5

## Sample calculation of final values:

Final Value (dB $\mu$ V/m) = Reading Value (dB $\mu$ V) + Correction Factor (dB/m) + Pulse Train Correction (dB)

<sup>&</sup>lt;sup>10</sup> Limit corrected with 20 dB/decade.



### 8.8 Exposure of Humans to RF Fields

Rules and specifications:	IC RSS-Gen Issue 2, section 5.5
Guide:	IC RSS-102 Issue 2, section 2.5

Exposure of Humans to RF Fields	Applicable	Declared by applicant	Measured	Exemption
The antenna is				
detachable				
The conducted output power (CP in watts) is measured at the antenna connector:			]	
CP =			Ш	
The effective isotropic radiated power (EIRP in watts) is calculated using				
the numerical antenna gain: $G$ $EIRP = G \cdot CP \Rightarrow EIRP$				
☐ the field strength <sup>11</sup> in V/m: FS				
$EIRP = \frac{(FS \cdot D)^2}{30} \Rightarrow EIRP$				
with:				
Distance between the antennas in m: D				
⊠ not detachable				
A field strength measurement is used to determine the effective isotropic radiated power (EIRP in watts) given by <sup>11</sup> :				
$EIRP = \frac{(FS \cdot D)^2}{30} \Rightarrow EIRP = 18.9 \cdot 10^{-6} \text{ W}$				
with:				
Field strength in V/m: $FS = 78.0 \text{ dB}\mu\text{V/m}$ = 7.94 · 10 <sup>-3</sup> V/m				
Distance between the two antennas in m: $D = 3 \text{ m}$			$\boxtimes$	
Selection of output power				
The output power TP is the higher of the conducted or effective isotropic radiated power (e.i.r.p.):				
$TP = 18.9 \cdot 10^{-6} \text{ W}$				

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<sup>&</sup>lt;sup>11</sup> The conversion formula is valid only for properly matched antennas. In other cases the transmitter output power may have to be measured by a terminated measurement when applying the exemption clauses. If an open area test site is used for field strength measurement, the effect due to the metal ground reflecting plane should be subtracted from the maximum field strength value in order to reference it to free space, before calculating TP.



Exposure of Humans to RF Fields (continued)				Exemption	
Separation distance between the user and the transmitting device is		Declared by applicant			
☑ less than or equal to 20 cm ☐ greater than 20 cm		$\boxtimes$			
Transmitting device is					
☐ in the vicinity of the human head ☐ body-worn		$\boxtimes$			
SAR evaluation					
SAR evaluation is required if the separation distance between the user and the device is less than or equal to 20 cm.					
The device operates from 3 kHz up to 1 GHz inclusively and its source-based time-averaged output power is less than, or equal to 200 mW for General Public Use and 1000 mW for Controlled Use.					
☐ The device operates above 1 GHz up to 2.2 GHz inclusively and its source-based time-averaged output power is less than, or equal to 100 mW for General Public Use and 500 mW for Controlled Use.					
∑ The device operates above 2.2 GHz up to 3 GHz inclusively and its source-based time-averaged output power is less than, or equal to 20 mW for General Public Use and 100 mW for Controlled Use.					
☐ The device operates above 3 GHz up to 6 GHz inclusively and its source-based time-averaged output power) is less than, or equal to 10 mW for General Public Use and 50 mW for Controlled Use.					
☐ SAR evaluation is documented in test report no					
RF exposure evaluation					
RF exposure evaluation is required if the separation distance between the user and the device is greater than 20 cm.					
☐ The device operates below 1.5 GHz and its e.i.r.p. is equal to or less than 2.5 W.					
☐ The device operates at or above 1.5 GHz and the e.i.r.p. of the device is equal to or less than 5 W.					
RF exposure evaluation is documented in test report no				ĺ	



### 9 Test Results for Receiver

FCC CFR 47 Part 15				
Section(s)	Test	Page	Result	
15.107	Conducted AC powerline emission 150 kHz to 30 MHz		Not applicable	
15.109	Radiated emission 30 MHz to 12.5 GHz	58 Test passed		
15.111(a)	Antenna power conduction emission of receivers 9 kHz to 12.5 GHz		Not applicable	

IC RSS-Gen Issue 2				
Section(s)	Test	Page	Result	
7.2.2	Transmitter AC power lines conducted emissions 150 kHz to 30 MHz		Not applicable	
6(a), 7.2.3.2	Receiver spurious emissions (radiated) 30 MHz to 12.5 GHz	58	Test passed	
6(b), 7.2.3.1	Receiver spurious emissions (antenna conducted) 9 kHz to 12.5 GHz		Not applicable	



#### 9.1 Radiated Emission Measurement 30 MHz to 12.5 GHz

Rules and specifications:	CFR 47 Part 15, section 15.109 (Class B) IC RSS-Gen Issue 2, sections 6(a) and 7.2.3.2			
Guide:	ANSI C63.4			
Limit:	Frequency of Emission (MHz)         Field Strength (μV/m)         Field Strength (dBμV/m)           30 - 88         100         40.0           88 - 216         150         43.5           216 - 960         200         46.0			
-				
	Above 960 500 54.0			
Measurement procedures:	Radiated Emission in Fully or Semi Anechoic Room (6.4) Radiated Emission at Open Field Test Site (6.5)			

Comment:		
Date of test:	uly 1, 2008, July 2, 2008 uly 4, 2008	
Test site:	Frequencies ≤ 1 GHz: Open field test site Frequencies > 1 GHz: Fully anechoic room, cabin no. 2	
Test distance:	Frequencies ≤ 8.2 GHz: 3 meters Frequencies > 1 GHz: 1 meters <sup>12</sup>	

Test Result: Test passed	
--------------------------	--

No emissions above noise level detected

<sup>&</sup>lt;sup>12</sup> Limit corrected with 20 dB/decade.



## 10 Referenced Regulations

All tests were performed with reference to the following regulations and standards:

-		
CFR 47 Part 2	Code of Federal Regulations Part 2 (Frequency allocation and radio treaty matters; General rules and regulations) of the Federal Communication Commission (FCC)	October 1, 2007
CFR 47 Part 15	Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC)	September 20, 2007
ANSI C63.4	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low- Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	December 11, 2003 (published on January 30, 2004)
RSS-Gen	Radio Standards Specification RSS-Gen Issue 2 containing General Requirements and Information for the Certification of Radiocommunication Equimpment, published by Industry Canada	June 2007
RSS-210	Radio Standards Specification RSS-210 Issue 7 for Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, published by Industry Canada	June 2007
RSS-310	Radio Standards Specification RSS-310 Issue 1 for Low Power Licence-Ecempt Radiocommunication Devices (All Frequency Bands): Category II Equipment, published by Industry Canada	September 2005
RSS-102	Radio Standards Specification RSS-102 Issue 2: Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)	November 2005
ICES-003	Interference-Causing Equipment Standard ICES-003 Issue 4 for Digital Apparatus, published by Industry Canada	February 7, 2004
CISPR 22	Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment – Radio Disturbance Characteristics – Limits and Methods of Measurement"	1997
CAN/CSA- CEI/IEC CISPR 22	Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment	2002
TRC-43	Notes Regarding Designation of Emission (Including Necessary Bandwidth and Classification), Class of Station and Nature of Service, published by Industry Canada	October 9, 1982



## 11 Revision History

Revision History			
Edition	Date	Issued by	Modifications
1	July 7, 2008	Martin Steindl (cj)	First Edition



## 12 Charts taken during testing

## Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control 2930800004 Applicant: Ulrich Alber GmbH Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: by hand default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table

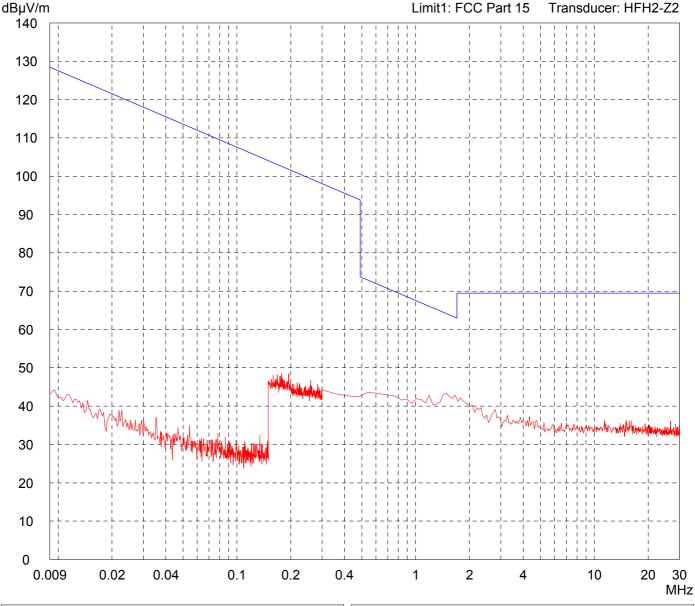
Detector:

Peak

List of values:

10 dB Margin

50 Subranges



# Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

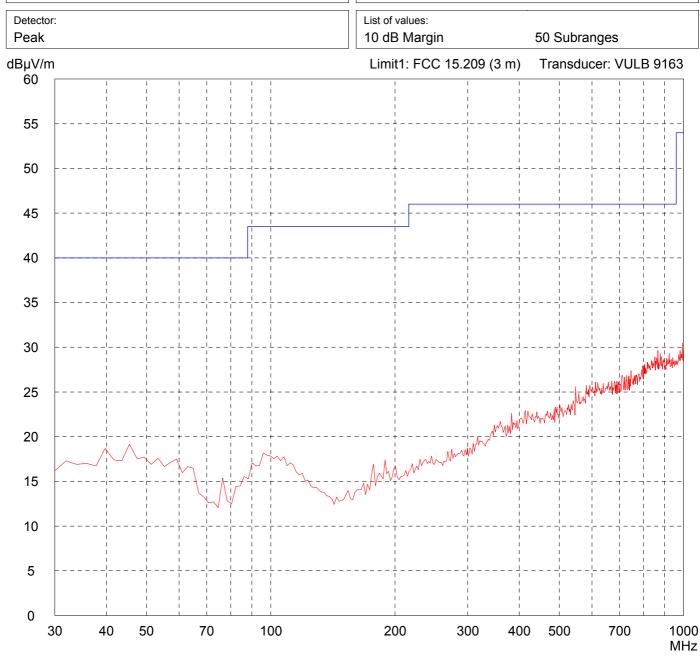
•	
Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cab	in no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table



Project file:

52305-80802

## Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

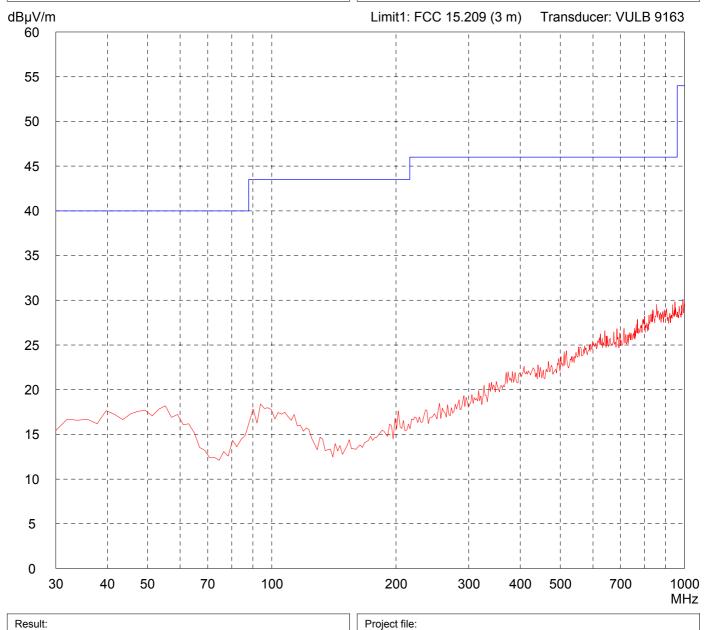
Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Prescan 52305-80802

# Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

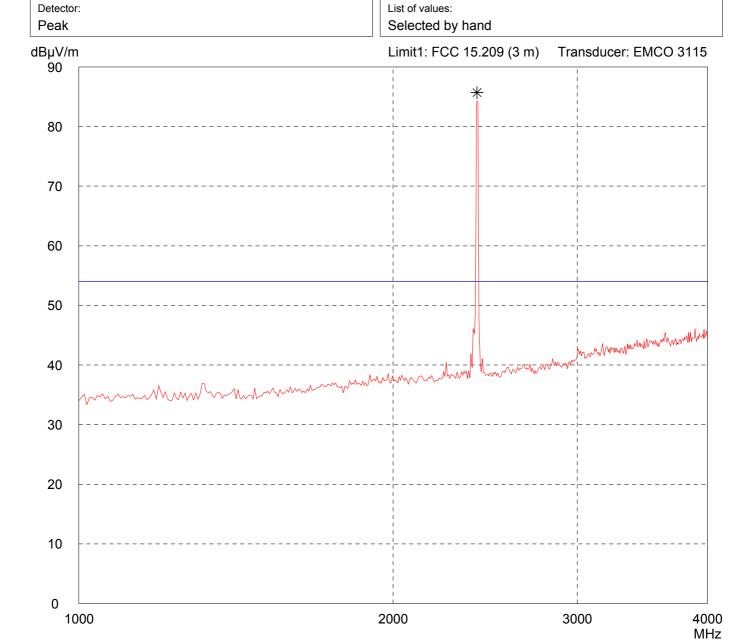
Model: Wheelchair Remote Contr	ol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabin	n no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
_	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table



Project file:

52305-80802

# Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

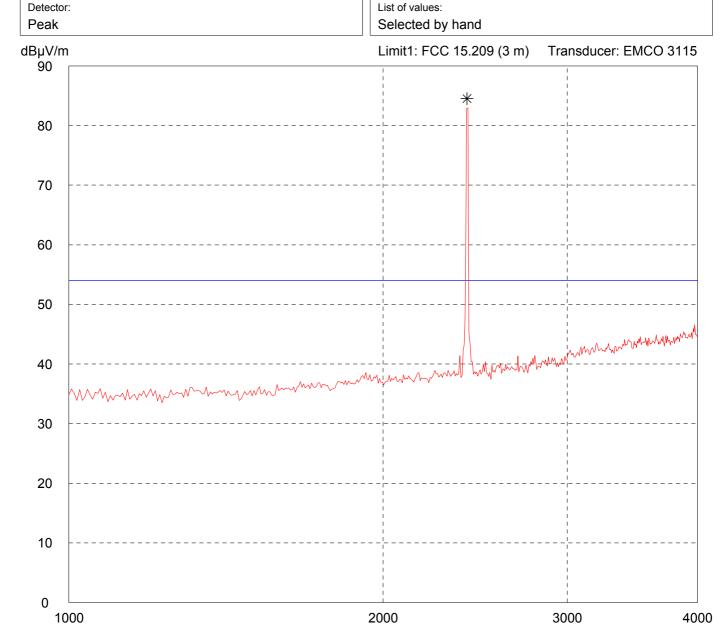
•	
Model: Wheelchair Remote Contro	ol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
_	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table



Project file:

52305-80802

MHz

## Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

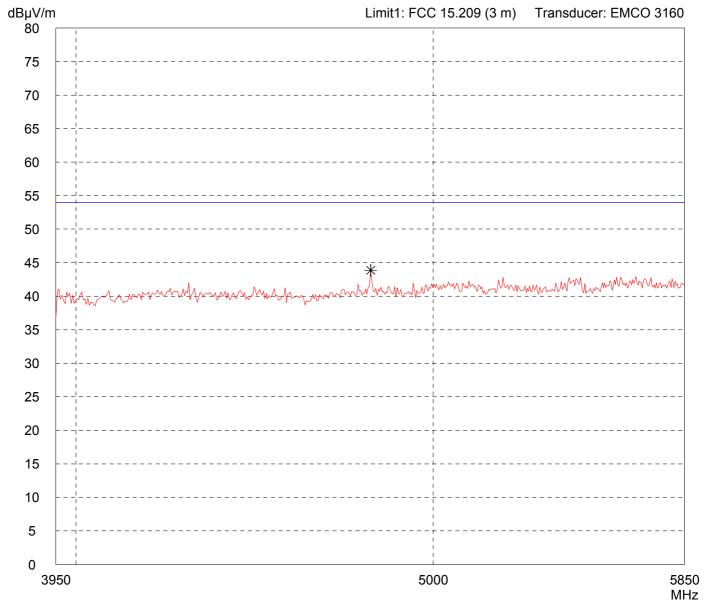
Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

## Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table

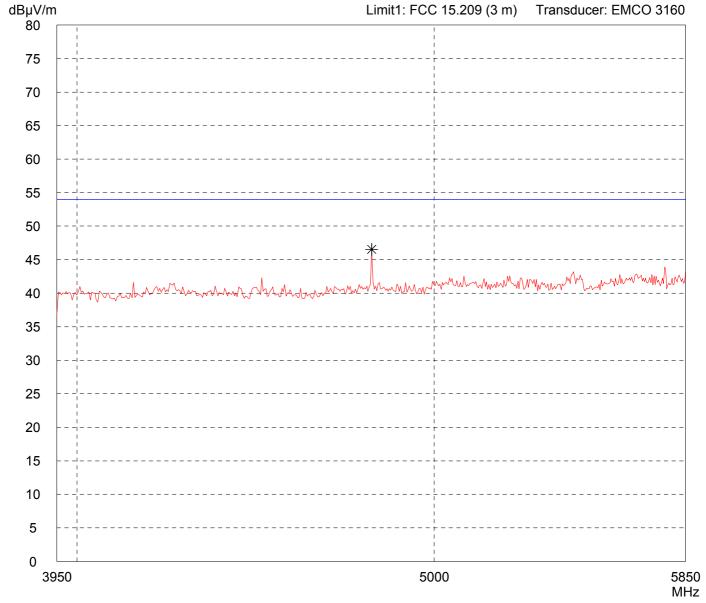
Detector:

Peak

List of values:

10 dB Margin

50 Subranges



 Result:
 Project file:

 52305-80802
 52305-80802

## Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Contr	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector	

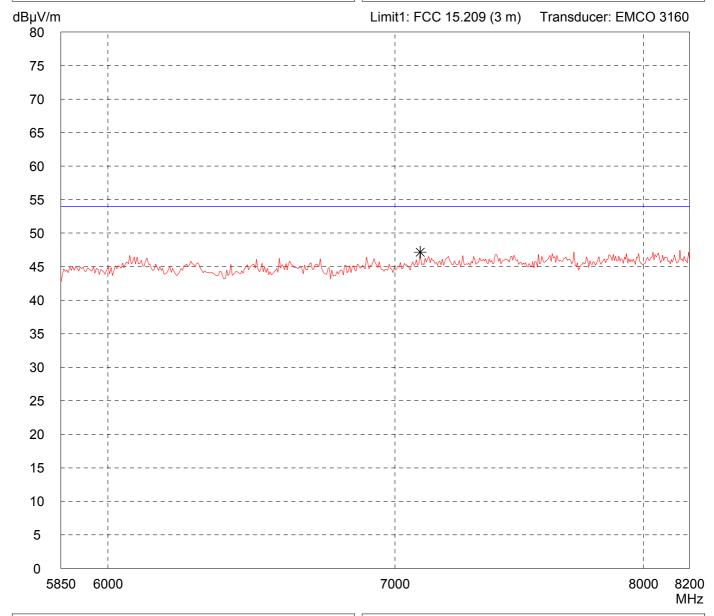
Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Result: Project file: 52305-80802

## Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Cont	rol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

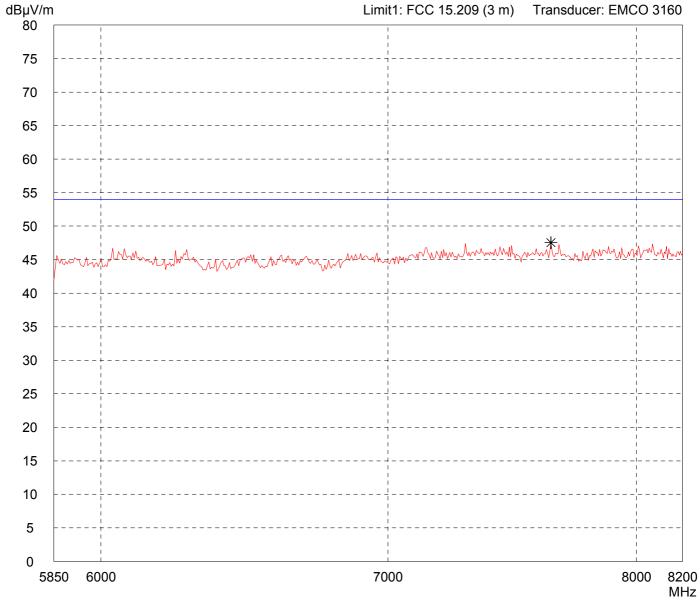
Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

# Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

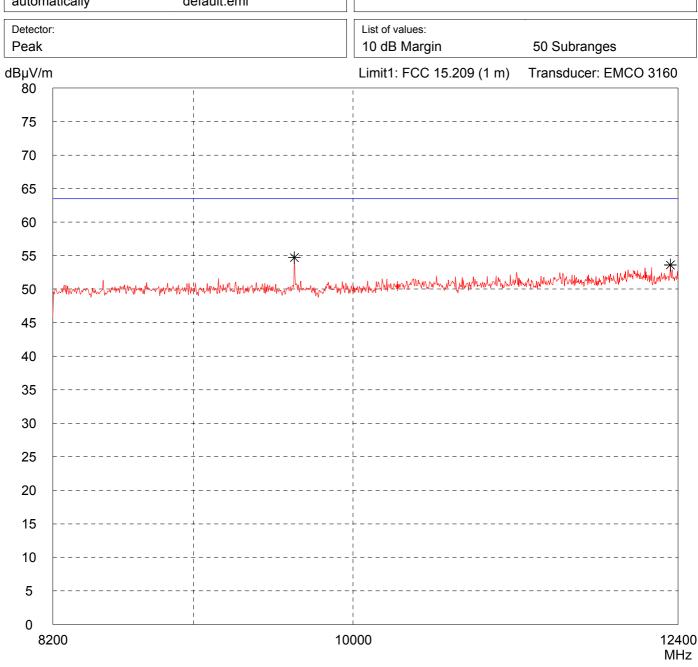
Model: Wheelchair Remote Con	trol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Horizontal Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Dotostor:		

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table



Project file:

52305-80802

# Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

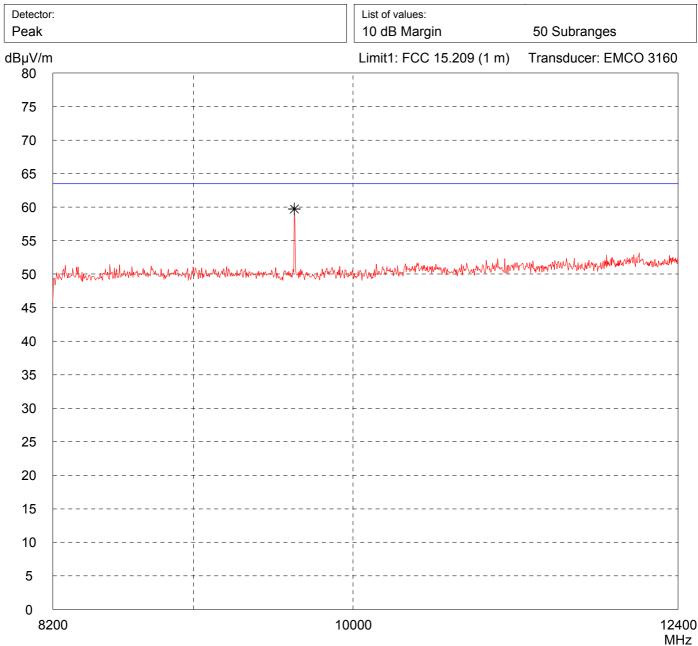
•		
Model: Wheelchair Remote Co	ntrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table



Project file:

52305-80802

Model: Wheelchair Remote Co	ontrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site:		
Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 1 meter Horizontal Polarization		
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		

Comment:

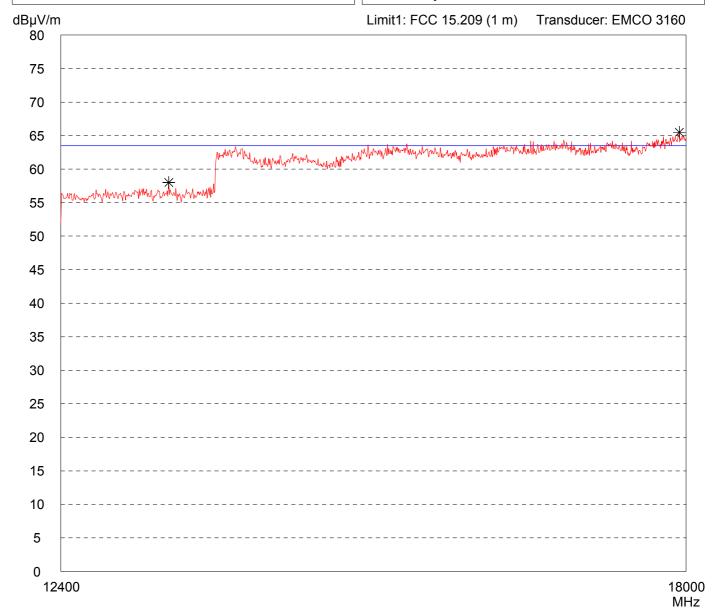
- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:

Selected by hand



Result: Project file: 52305-80802

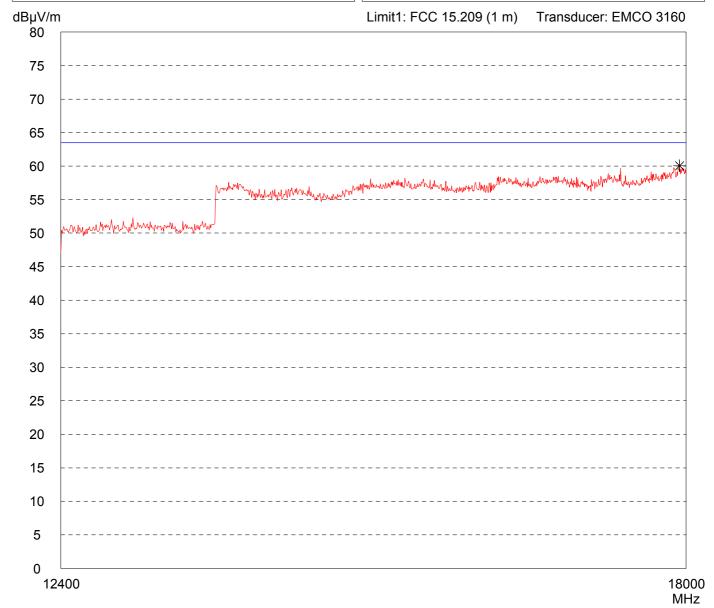
Model: Wheelchair Remote Control		
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 1 meter Horizontal Polarization		
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table

Detector:
Peak

List of values:
Selected by hand

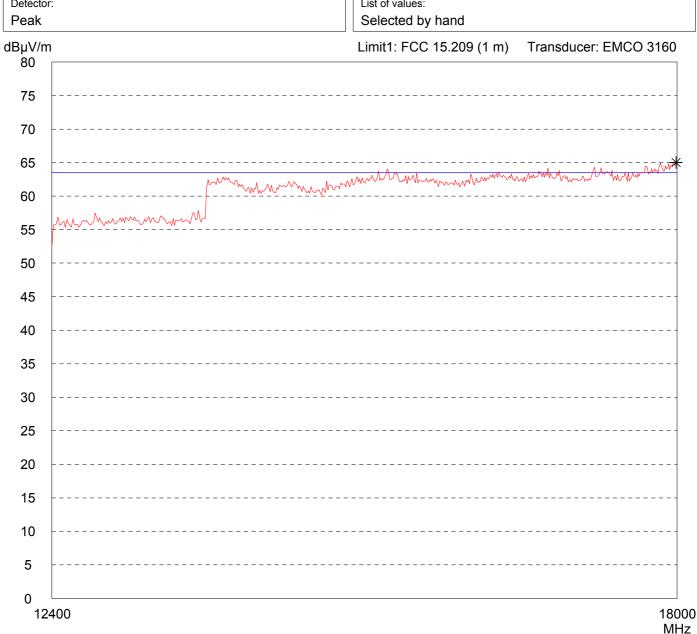


Result:
Prescan - VBW = 100 kHz

Project file:
52305-80802

Model: Comment: Wheelchair Remote Control - Battery supply Serial no.: 2930800004 Applicant: - Lowest frequency: 2405 MHz Ulrich Alber GmbH - Position 1: Test site: EUT flat on table Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi Detector: List of values:

- Transmitting continously with modulation



Result: Project file: Limit kept 52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

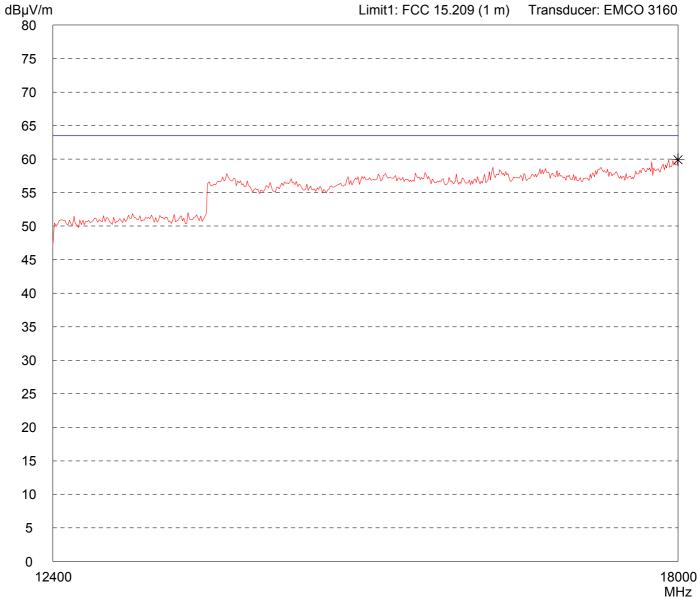
Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



 Result:
 Project file:

 Prescan - VBW = 100 kHz
 52305-80802

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH		Mode: - Battery supply - Transmitting continously with modulation - Lowest frequency: 2405 MHz - Position 1: EUT flat on table - Polarisation: horizontal - Distance: 0.5 m
Ref.Level 74.8 dBµV A 5 dB/Div.	ATT	0 dB Ref. Offset 42.8 dB
		Marker 24.914444 GHz 60.90 dBμV
Start 18.000 GHz RBW 1 MHz VE Tested by: M. Steindl Date: 2008-07-04	BW 1	Stop 25.000 GHz 1 MHz SWP 40 ms  Project-No.: 52305-080802

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Lowest frequency: 2405 MHz - Position 1: EUT flat on table - Polarisation: vertical - Distance: 0.5 m
Ref.Level 74.8 dBμV ATT 5 dB/Div.	0 dB Ref. Offset 42.8 dB
	Marker24.883333 GHz
Start 18.000 GHz RBW 1 MHz VBW Tested by: M. Steindl Date: 2008-07-04	Stop 25.000 GHz 1 MHz SWP 40 ms  Project-No.: 52305-080802

Model: Wheelchair Remote Control 2930800004 Applicant: Ulrich Alber GmbH Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: by hand default.emi

Comment:

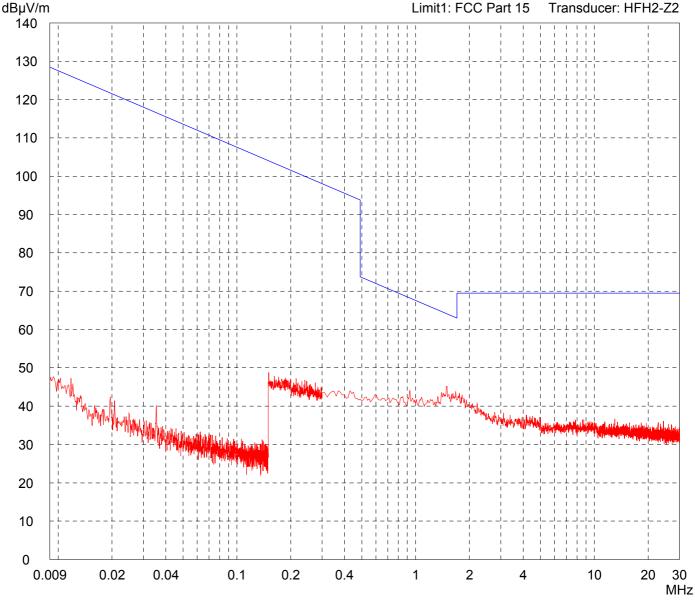
- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Result:
Prescan

Project file:
52305-80802

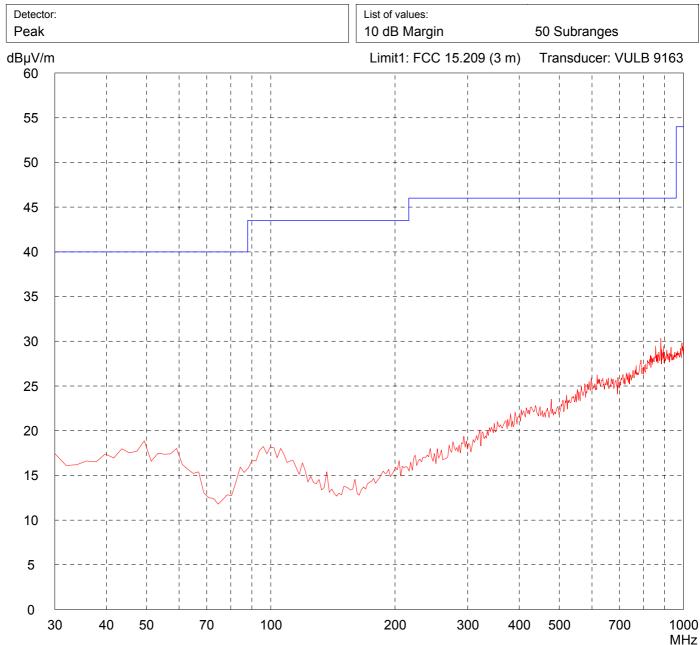
Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Data stari	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side



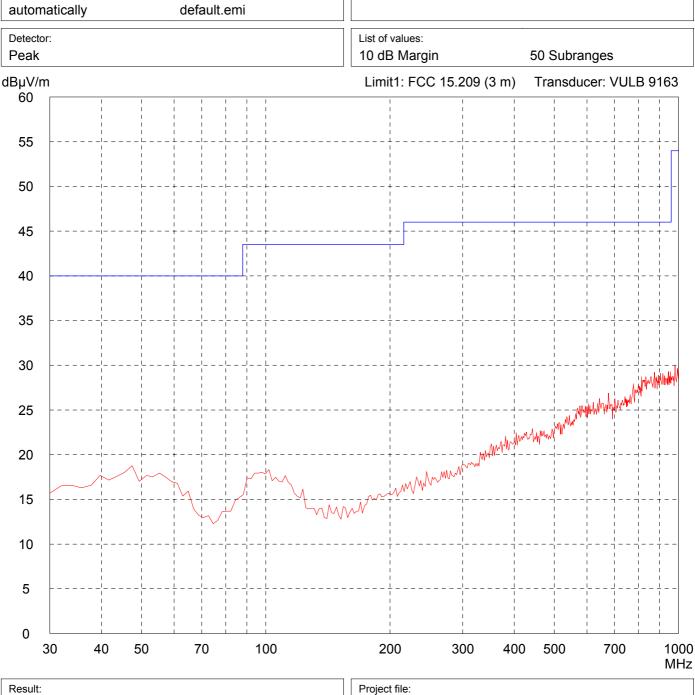
Project file:

Model: Wheelchair Remote Con	trol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cab	oin no. 2	
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector		

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side



Model: Wheelchair Remote Contr	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detectors	

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side

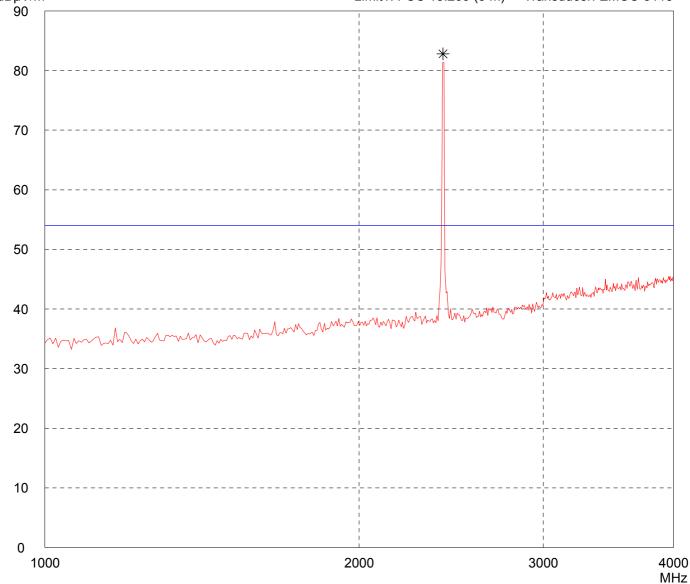
Detector:
Peak

List of values:
Selected by hand

Detector:
List of values:
Selected by hand

Limit1: FCC 15.209 (3 m)

Transducer: EMCO 3115



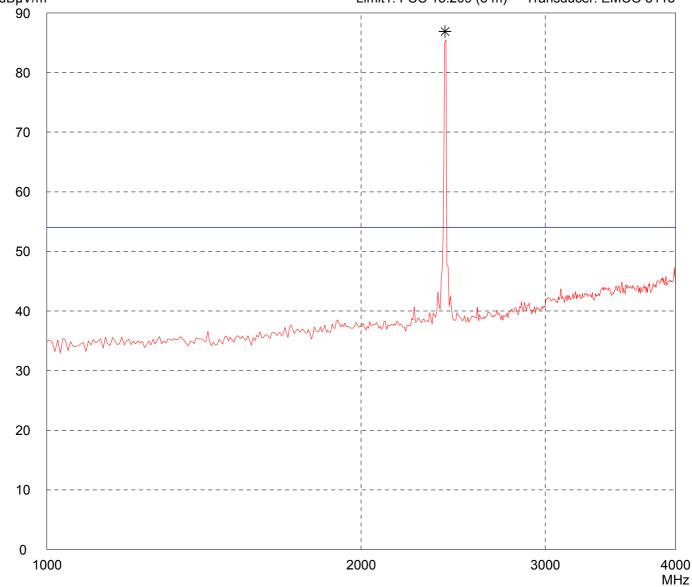
Result: Project file: 52305-80802

Model: Wheelchair Remote Contr	ol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
l <u> </u>	

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side





 Result:
 Project file:

 52305-80802
 52305-80802

Model: Wheelchair Remote Cor	ntrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Horizontal Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	

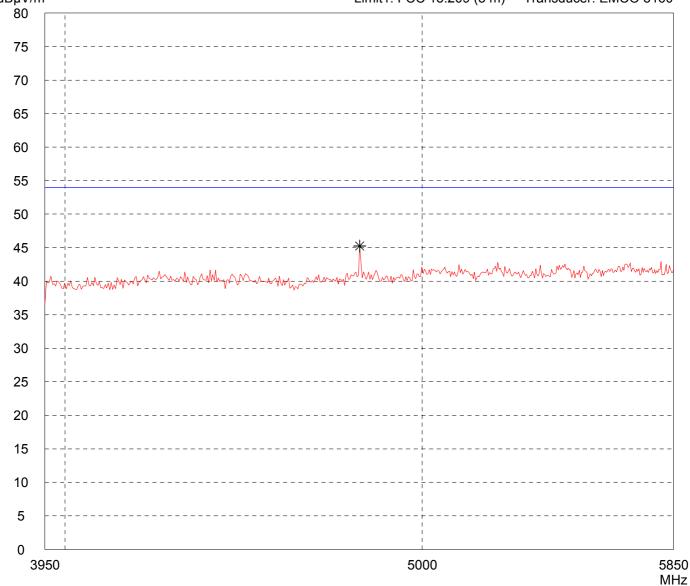
Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side

 Detector:
 Peak
 List of values:

 10 dB Margin
 50 Subranges

 dBμV/m
 Limit1: FCC 15.209 (3 m)
 Transducer: EMCO 3160



 Result:
 Project file:

 52305-80802
 52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Comment:

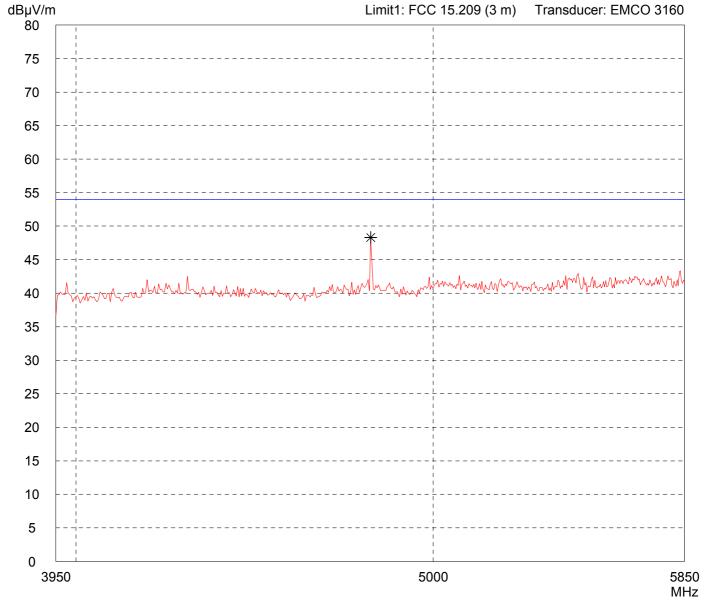
- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Result: Project file: 52305-80802

Model: Wheelchair Remote Contr	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

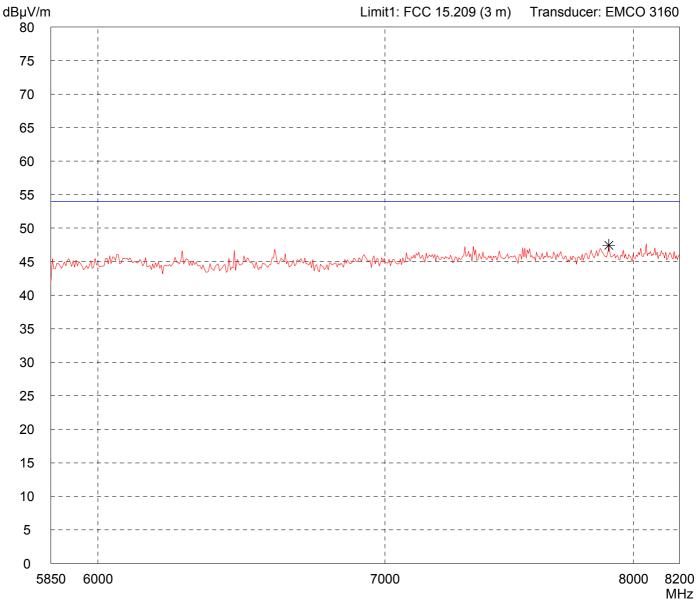
Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

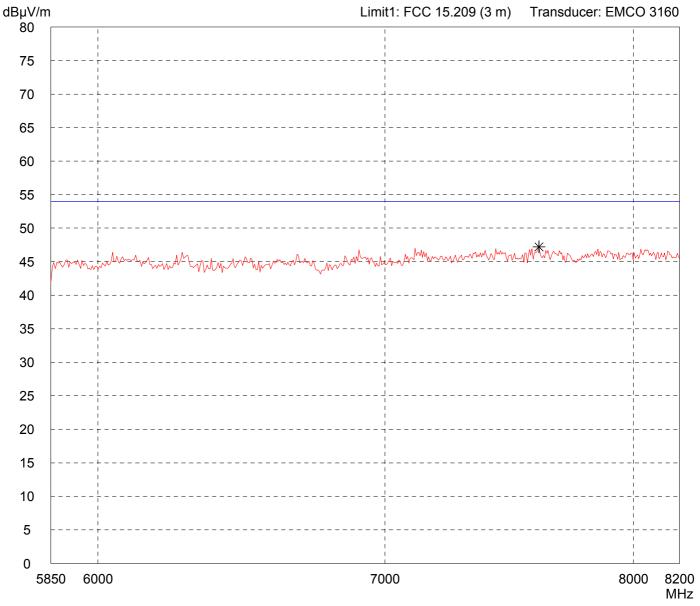
Model: Wheelchair Remote Conti	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side

Detector:
Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

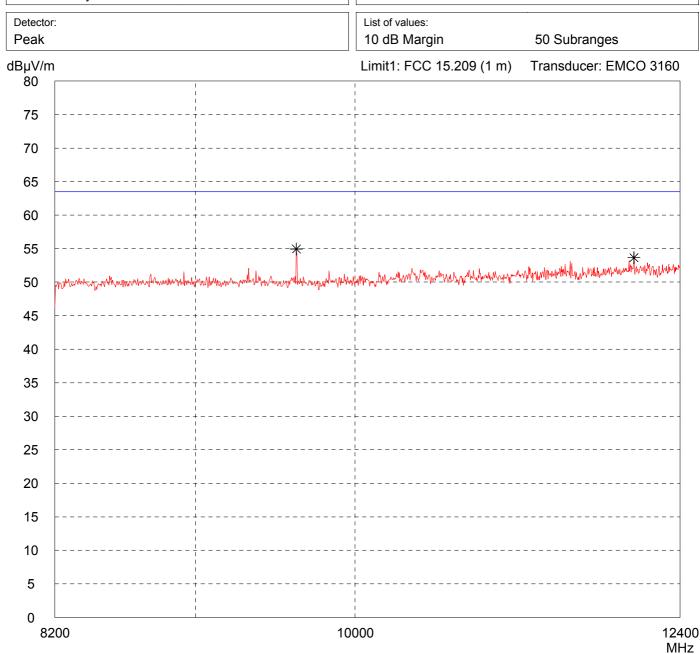
Model: Wheelchair Remote Conti	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side



Project file:

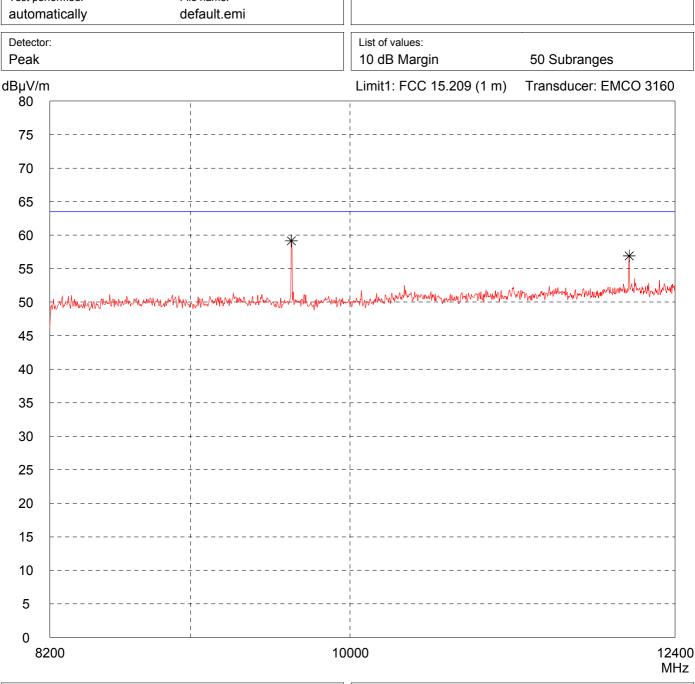
Model: Wheelchair Remote Co	ontrol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, ca	abin no. 2
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Dotostor:	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side



Project file:

modulation

 $\mathsf{MHz}$ 

Model: Wheelchair Remote C	Control	Comment: - Battery supply
Serial no.: 2930800004		- Transmitting continously with
Applicant: Ulrich Alber GmbH		- Lowest frequency: 2405 MHz
Test site: Fully anechoic room,	cabin no. 2	- Position 2: EUT on long side
Tested on: Test distance 1 meter Horizontal Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values:

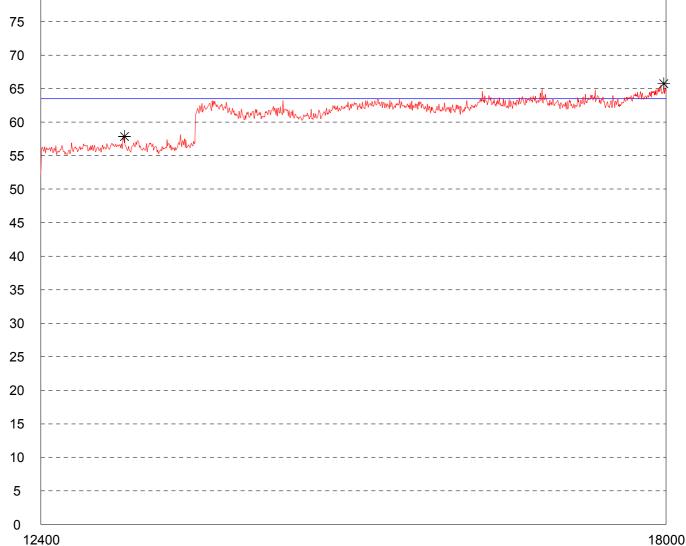
Detector:
Peak

Detector:
Selected by hand

Detector:
Selected by hand

Limit1: FCC 15.209 (1 m)

Transducer: EMCO 3160



Result:
Project file:
52305-80802

Model:		
Wheelchair Remote Control		
Serial no.:		
2930800004		
Applicant:		
Ulrich Alber GmbH		
Test site:		
Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 1 meter		
Horizontal Polarization		
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		

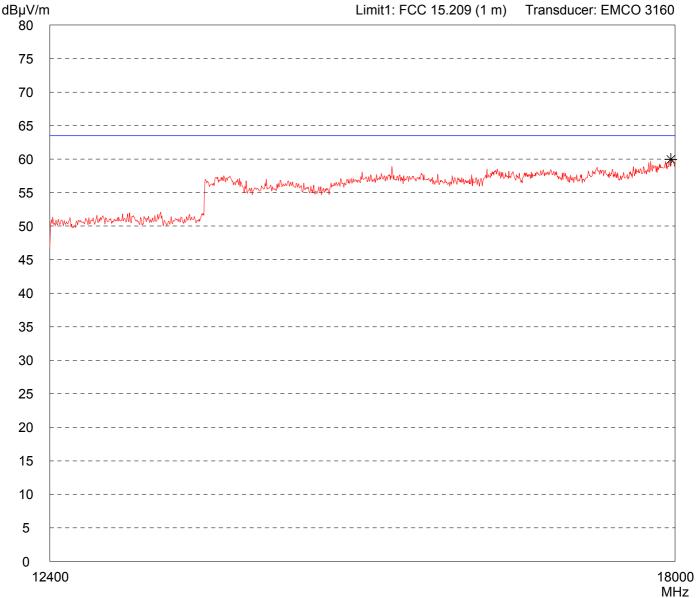
Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side

Detector:

Peak

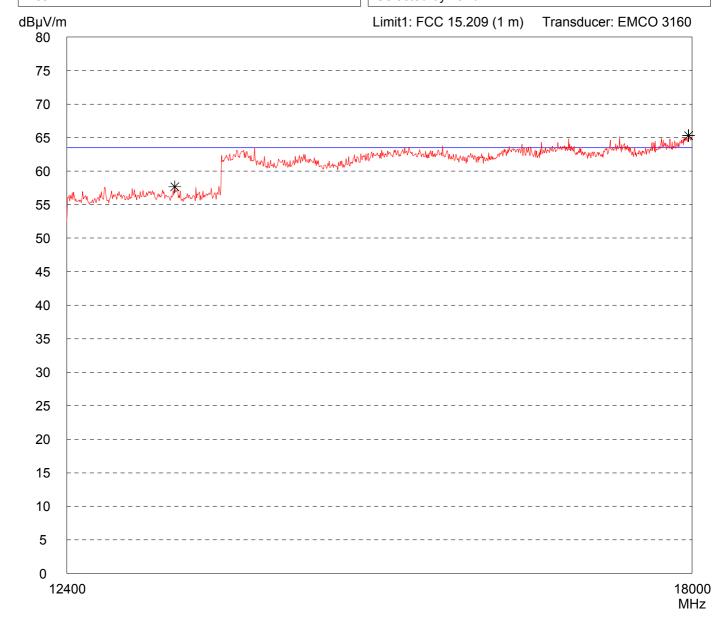
List of values:
Selected by hand



 Result:
 Project file:

 Prescan - VBW = 100 kHz
 52305-80802

Model: Wheelchair Remote Co	ontrol	Comment: - Battery supply
Serial no.: 2930800004		- Transmitting continously with modulation
Applicant: Ulrich Alber GmbH		- Lowest frequency: 2405 MHz
Test site: Fully anechoic room, c	abin no. 2	- Position 2: EUT on long side
Tested on: Test distance 1 meter Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values:
Peak		Selected by hand



Result:
Project file:
52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

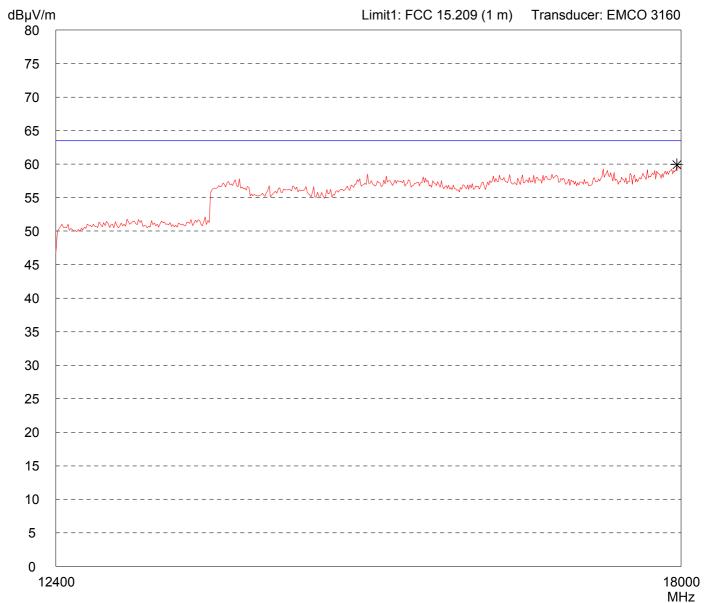
Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan - VBW = 100 kHz

Project file:
52305-80802

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Lowest frequency: 2405 MHz - Position 2: EUT on long side - Polarisation: vertical - Distance: 0.5 m
Ref.Level 74.8 dBµV ATT 5 dB/Div.	Γ 0 dB Ref. Offset 42.8 dB
	Marker
Start 18.000 GHz RBW 1 MHz VBW Tested by: M. Steindl Date:	Stop 25.000 GHz / 1 MHz SWP 40 ms Project-No.: 52305-080802

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control	Mode: - Battery supply		
Serial No.: 2930800004	- Transmitting continously with modulation		
Applicant: Ulrich Alber GmbH	- Lowest frequency: 2405 MHz		
Office Alber GmbH	- Position 2:		
	EUT on long side  - Polarisation: horizontal		
	- Distance: 0.5 m		
Ref.Level 74.8 dBµV ATT 5 dB/Div.	0 dB Ref. Offset 42.8 dB		
	Marker		
	24.230000 GHz		
	60.75 dBµV		
	60.75 dBµV		
	; 		
Start 18.000 GHz RBW 1 MHz VBW	Stop 25.000 GHz 1 MHz SWP 40 ms		
Tested by: M. Steindl	Project-No.: 52305-080802		
Date: 2008-07-04	3233 33332		

Model: Wheelchair Remote Control 2930800004 Applicant: Ulrich Alber GmbH Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: by hand default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position

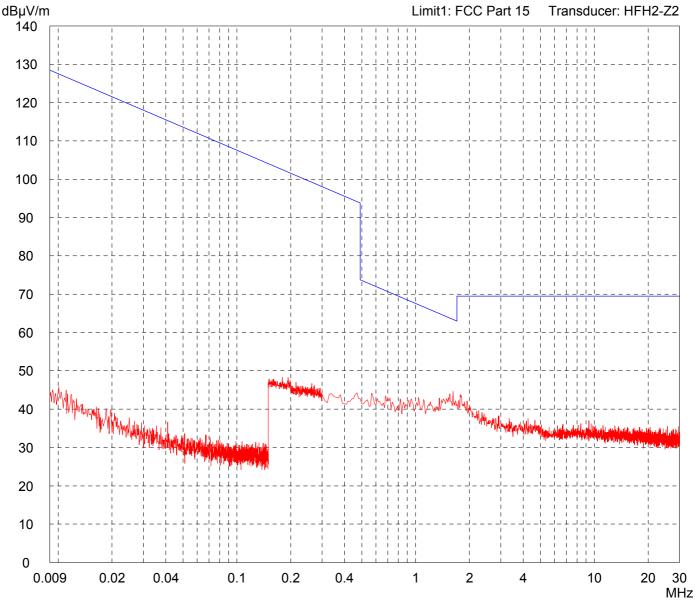
Detector:

Peak

List of values:

10 dB Margin

50 Subranges



Result: Project file: 52305-80802

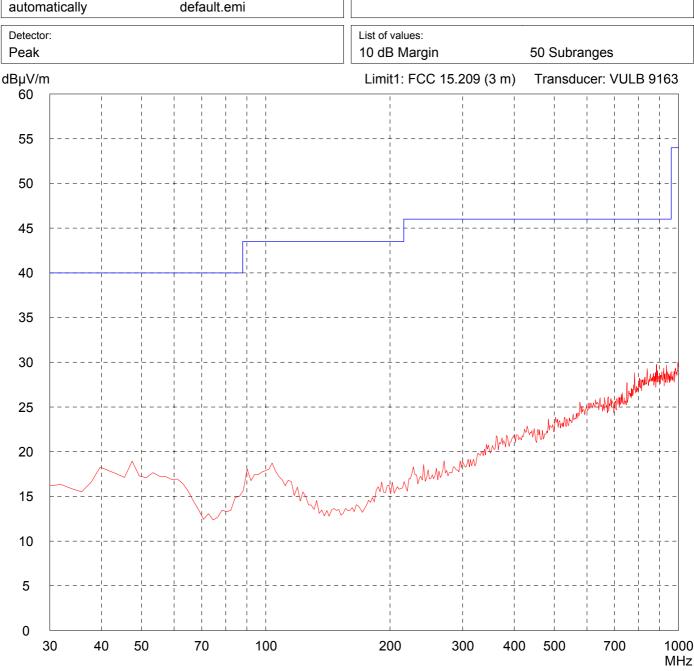
Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position



Project file:

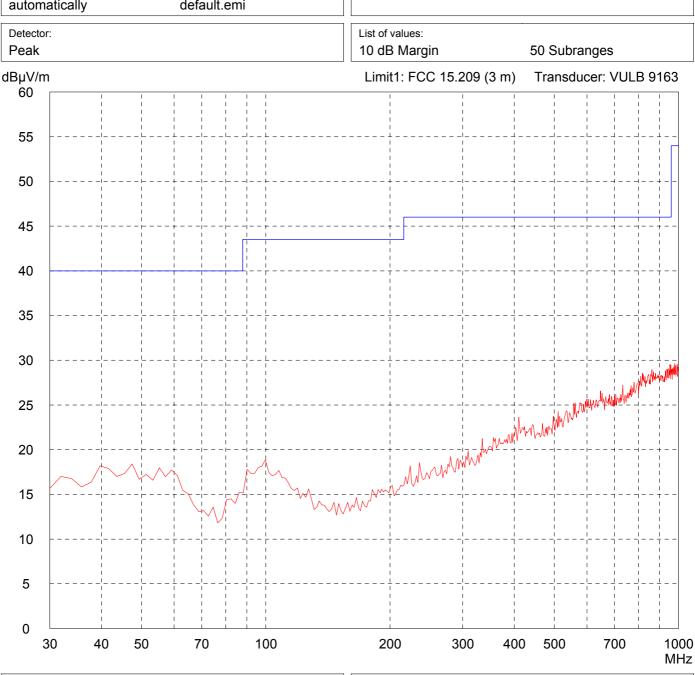
Model: Wheelchair Remote Co	entrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, ca	abin no. 2	
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position

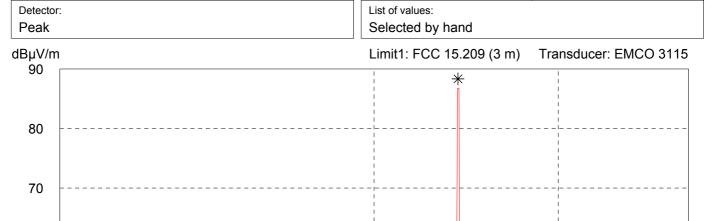


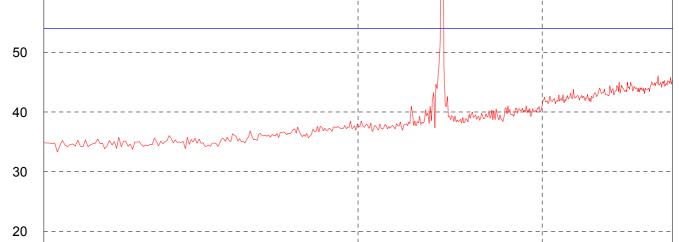
Project file:

Model: Wheelchair Remote Contro	ol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position





Result:
Prescan

60

Project file: 52305-80802

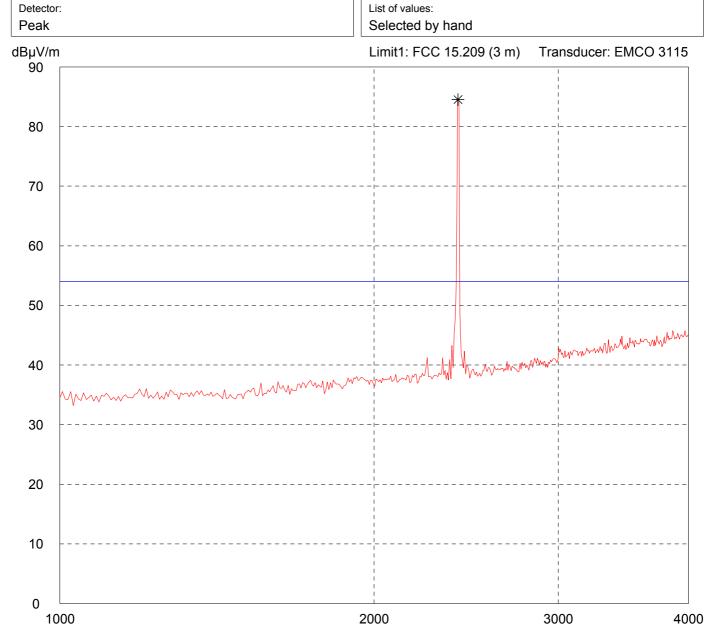
Model: Wheelchair Remote Contr	ol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
l <u> </u>	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position



Project file:

52305-80802

MHz

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position

Detector:
Peak

Detector:
Peak

10 dB Margin

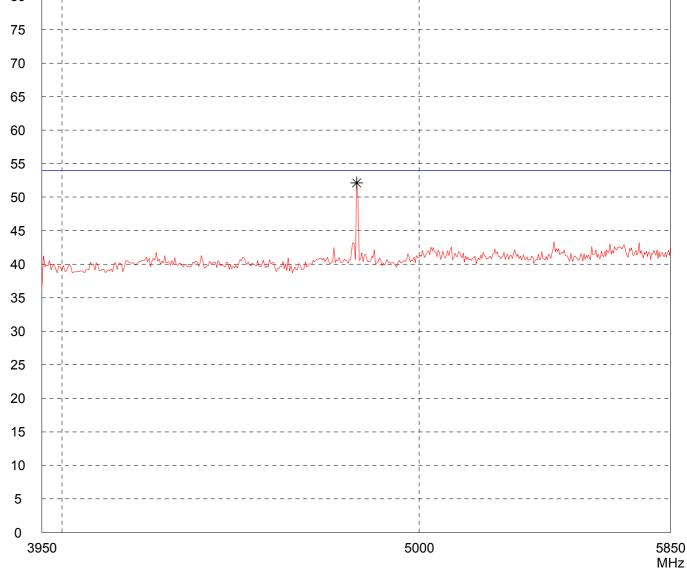
50 Subranges

Detector:
10 dB Margin

Transducer: EMCO 3160

80

75



 Result:
 Project file:

 Prescan
 52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Operator: Date of test: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position

Detector:
Peak

List of values:
10 dB Margin

50 Subranges

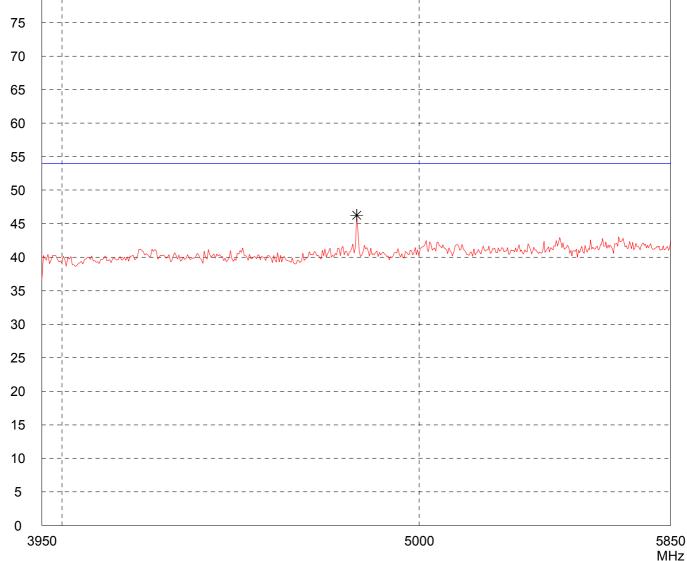
dBµV/m

80

75

Limit1: FCC 15.209 (3 m)

Transducer: EMCO 3160



Result: Project file: 52305-80802

Model: Wheelchair Remote Conti	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
<b>D</b>	

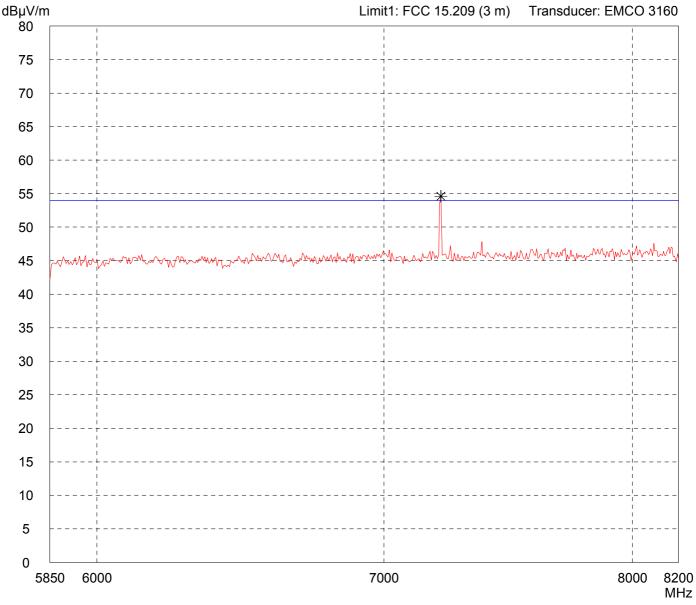
Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



 Result:
 Project file:

 Prescan
 52305-80802

Model: Wheelchair Remote Conti	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

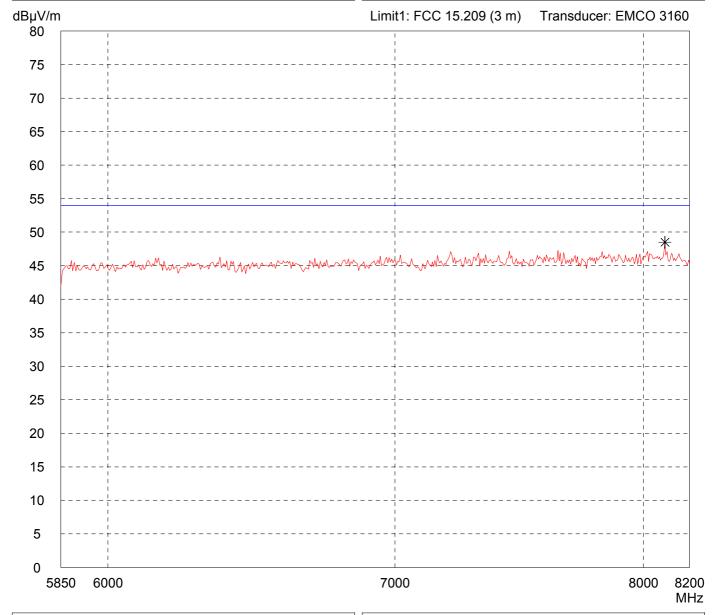
Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Result: Project file: 52305-80802

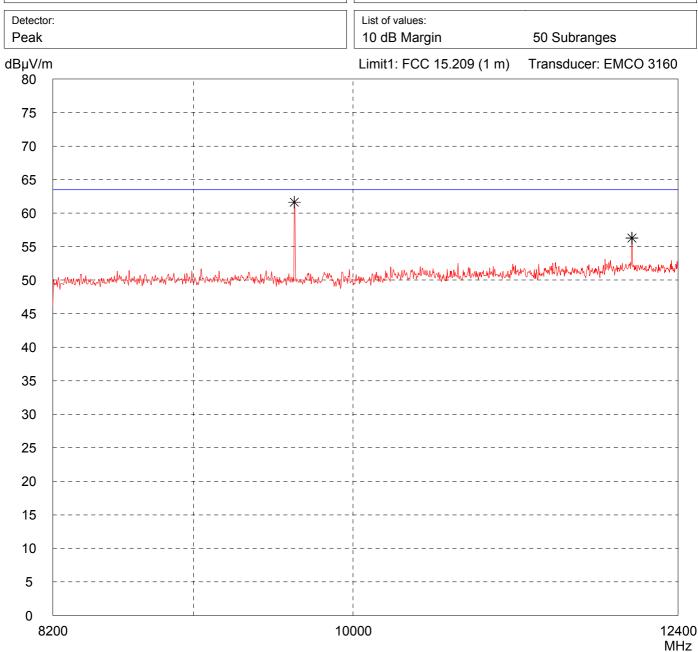
Model: Wheelchair Remote Con	itrol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cal	oin no. 2
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Dotostor:	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position



Project file:

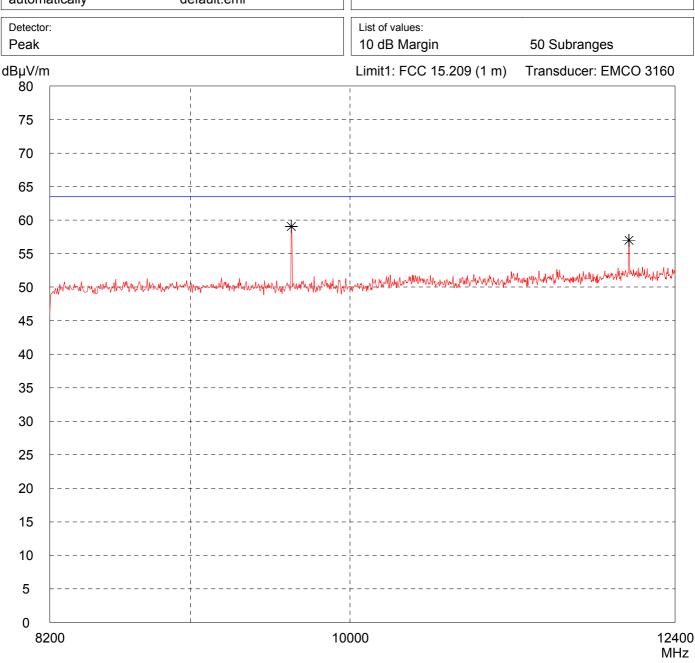
Model: Wheelchair Remote Cor	ntrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Dotoctor:		

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position



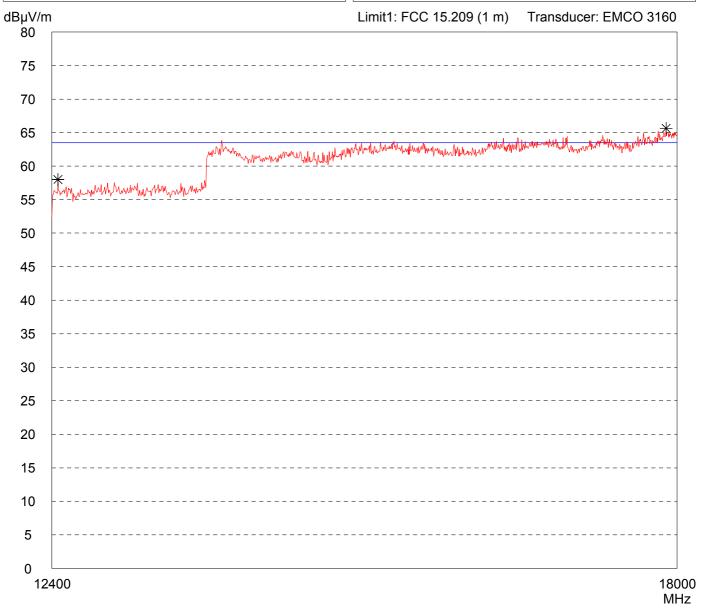
Project file:

Model: Wheelchair Remote (	Control	Comr
Serial no.: 2930800004	<u> </u>	- Tra
Applicant: Ulrich Alber GmbH		- Lov
Test site: Fully anechoic room,	cabin no. 2	- Po
Tested on: Test distance 1 mete Horizontal Polarizatio	•	
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List o

ment:

- attery supply
- ansmitting continously with modulation
- west frequency: 2405 MHz
- sition 3: JT in upright position

of values: Peak Selected by hand



Result: Project file: Prescan 52305-80802

Model:		
Wheelchair Remote Co	ntrol	
Serial no.:		
2930800004		
Applicant:		
Ulrich Alber GmbH		
Test site:		
Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 1 meter		
Horizontal Polarization		
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position

Detector:
Peak

BµV/m

List of values:
Selected by hand

Limit1: FCC 15.209 (1 m) Transducer: EMCO 3160



Result:
Prescan - VBW = 100 kHz

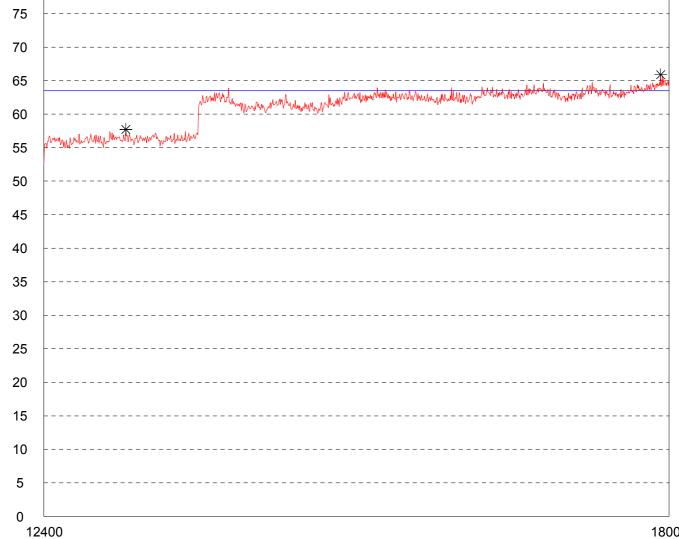
Project file:
52305-80802

#### Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Contr	ol	Comment:	ıpply
Serial no.: 2930800004		- Transmitti	
Applicant: Ulrich Alber GmbH		- Lowest fre	equency:
Test site: Fully anechoic room, cabin no. 2			- Position 3: EUT in upright pos
Tested on: Test distance 1 meter Vertical Polarization			
Date of test: 07/01/2008	Operator: M. Steindl		
Test performed: automatically	File name: default.emi		
Detector:		List of values:	

- nously with modulation
- 2405 MHz
- sition

Peak Selected by hand Limit1: FCC 15.209 (1 m) dBµV/m Transducer: EMCO 3160 80 75



18000  $\mathsf{MHz}$ Result: Project file: Prescan 52305-80802

## Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Con	trol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cab	oin no. 2	
Tested on: Test distance 1 meter Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

Comment:

- Battery supply
- Transmitting continously with modulation
- Lowest frequency: 2405 MHz
- Position 3: EUT in upright position

Detector:
Peak

BµV/m

B0

List of values:
Selected by hand

Limit1: FCC 15.209 (1 m) Transducer: EMCO 3160



 Result:
 Project file:

 52305-80802
 52305-80802

### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Lowest frequency: 2405 MHz - Position 3: EUT in upright position - Polarisation: horizontal - Distance: 0.5 m
Ref.Level 74.8 dBμV ATT 5 dB/Div.	Γ 0 dB Ref. Offset 42.8 dB
	Marker24.237778 GHz 61.42 dBμV
Start 18.000 GHz	Stop 25.000 GHz
	7 1 MHz SWP 40 ms Project-No.: 52305-080802

### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Lowest frequency: 2405 MHz - Position 3: EUT in upright position - Polarisation: vertical - Distance: 0.5 m
Ref.Level 74.8 dBµV A 5 dB/Div.	TT 0 dB Ref. Offset 42.8 dB
	Marker 24.860000 GHz 61.26 dBμV
Start 18.000 GHz RBW 1 MHz VE Tested by: M. Steindl Date: 2008-07-04	Stop 25.000 GHz BW 1 MHz SWP 40 ms Project-No.: 52305-080802

### Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control 2930800004 Applicant: Ulrich Alber GmbH Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: by hand default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table

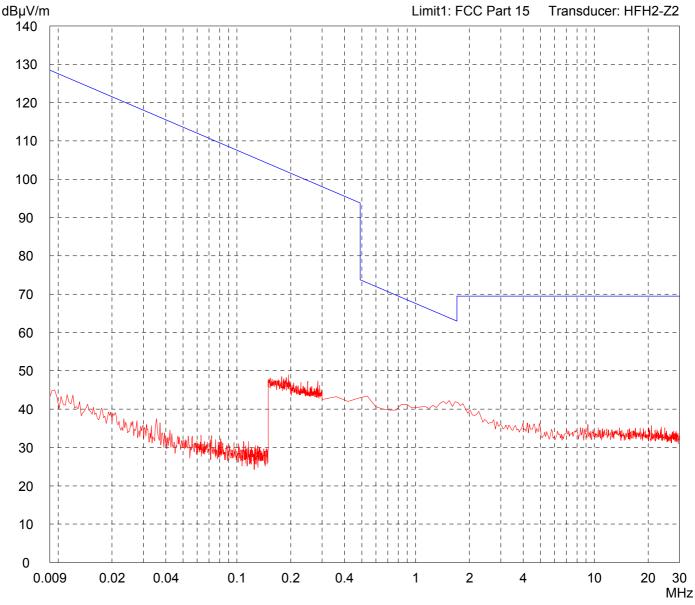
Detector:

Peak

List of values:

10 dB Margin

50 Subranges



Result: Project file: 52305-80802

# Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

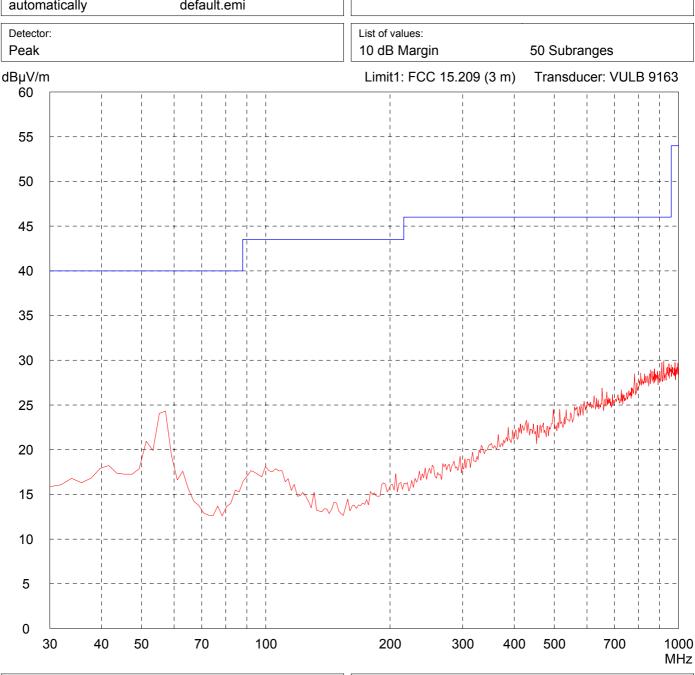
•	
Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table



Project file:

### Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

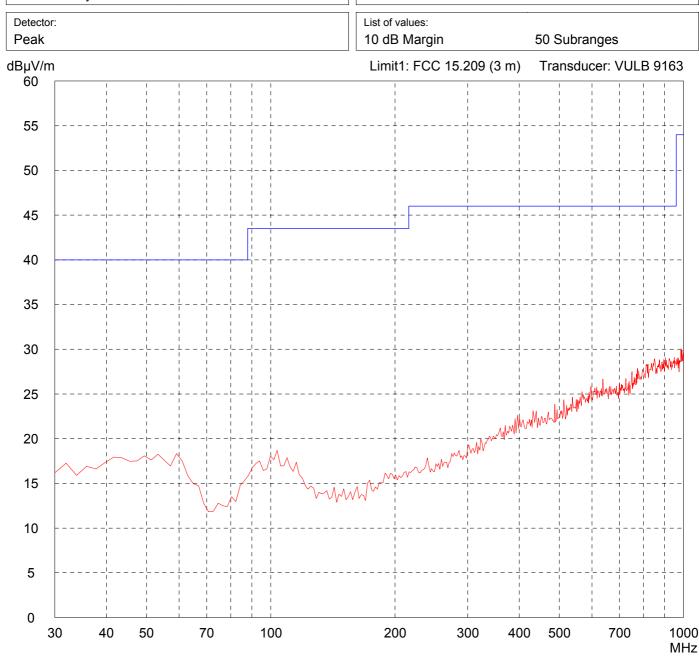
Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table



Project file:

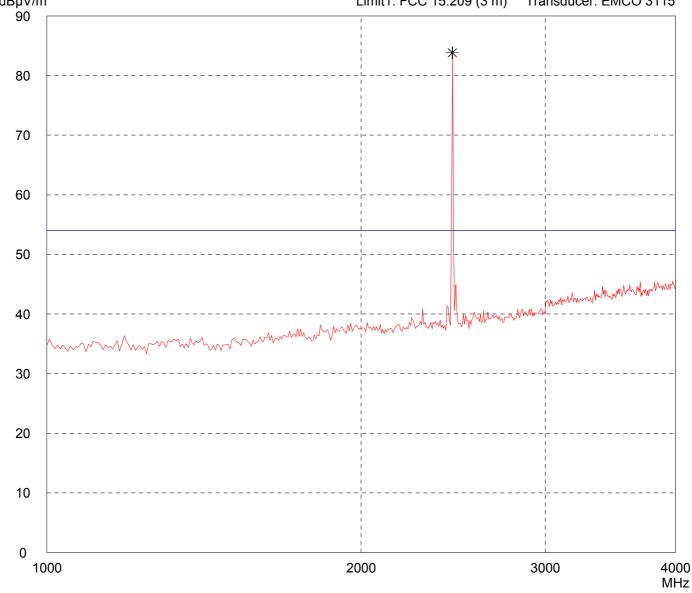
## Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Con	trol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cal	oin no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Datastan	

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table





 Result:
 Project file:

 52305-80802
 52305-80802

## Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

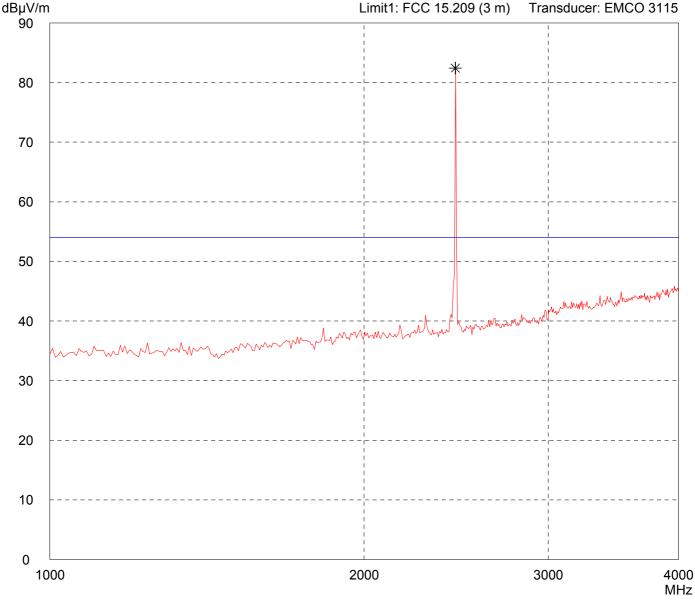
Model: Wheelchair Remote Contr	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector	

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table

Detector:
Peak

List of values:
Selected by hand



 Result:
 Project file:

 52305-80802
 52305-80802

## Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Operator: Date of test: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

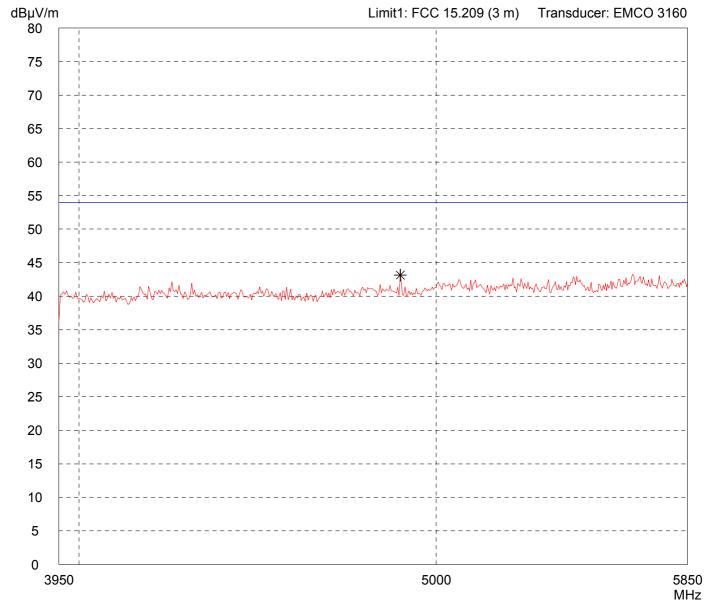
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



 Result:
 Project file:

 Prescan
 52305-80802

## Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Co	entrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table

Detector:
Peak

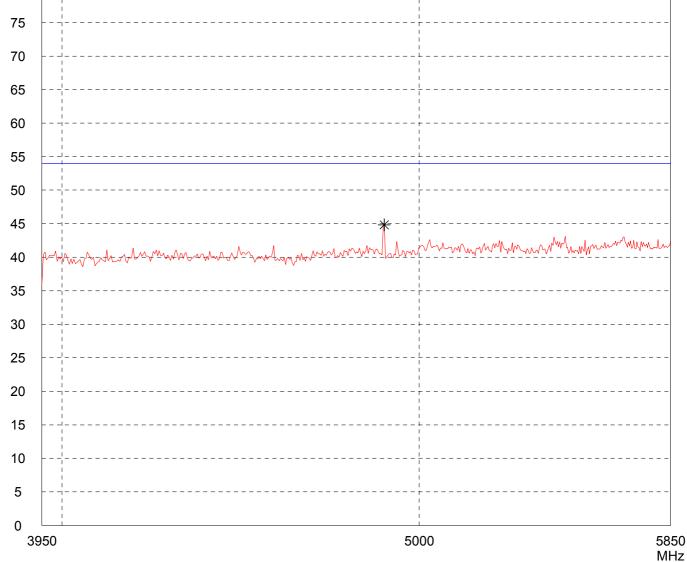
List of values:
10 dB Margin

50 Subranges

dBµV/m

80

75



 Result:
 Project file:

 52305-80802
 52305-80802

## Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

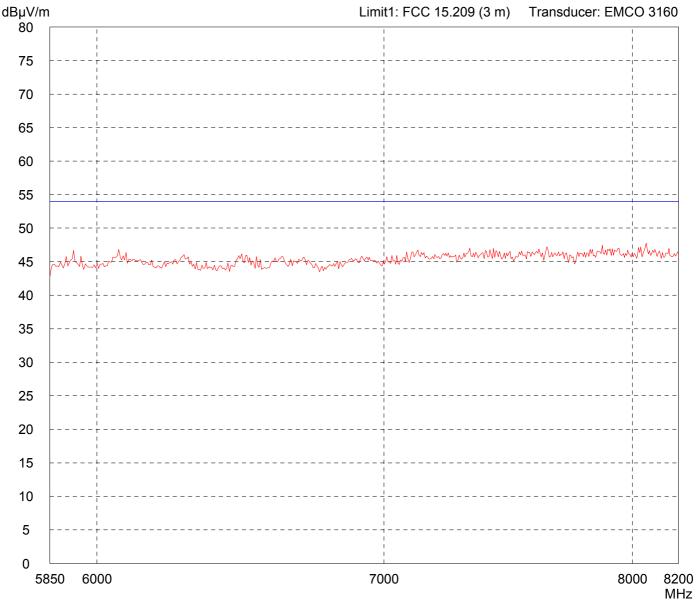
Model: Wheelchair Remote Conti	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table

Detector:
Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

## Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cab	in no. 2
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

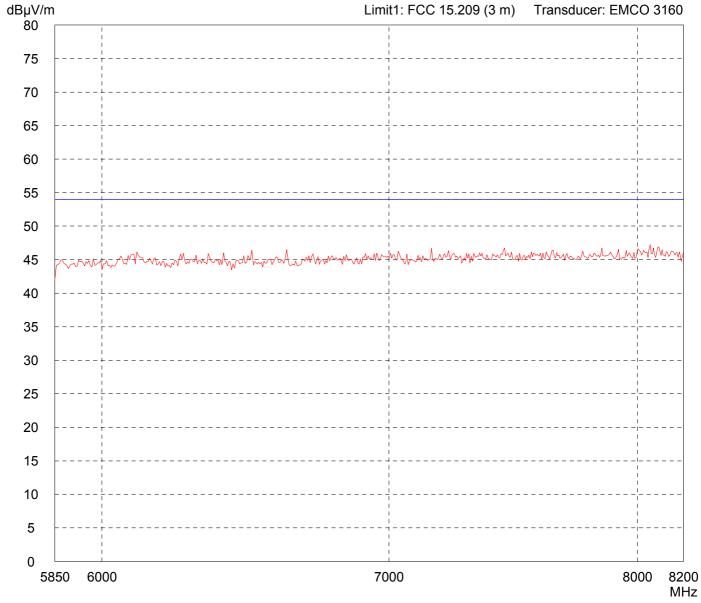
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

# Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

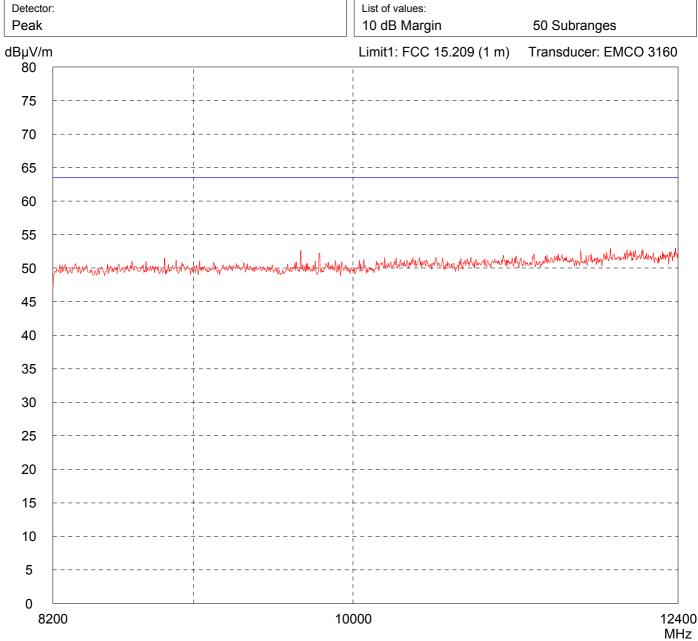
Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cab	in no. 2
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table



Project file:

# Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

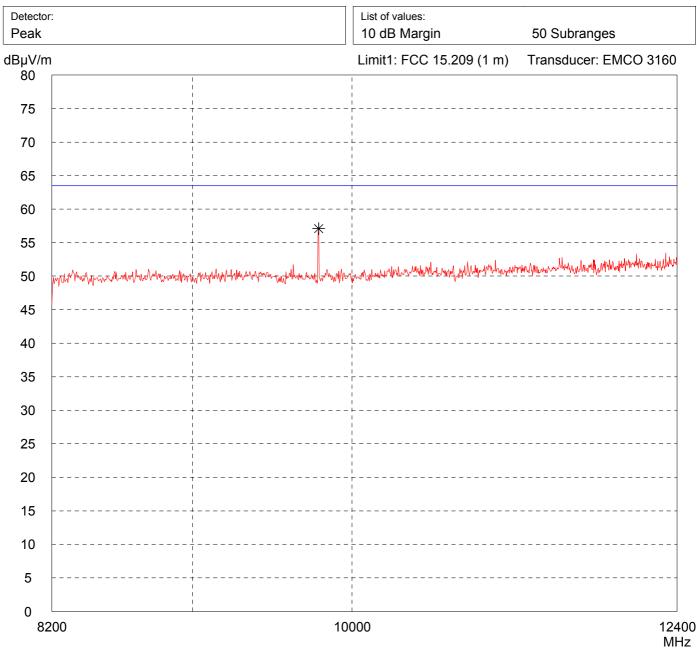
Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cab	in no. 2
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detectors	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table



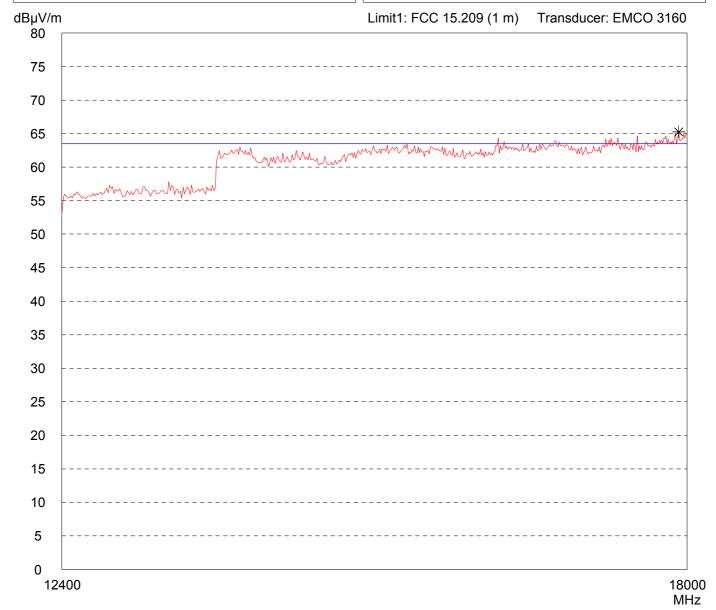
Project file:

#### Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Comment: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH - Position 1: Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi Detector: List of values:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- EUT flat on table

Peak Selected by hand



Project file: Result: Prescan 52305-80802

## Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

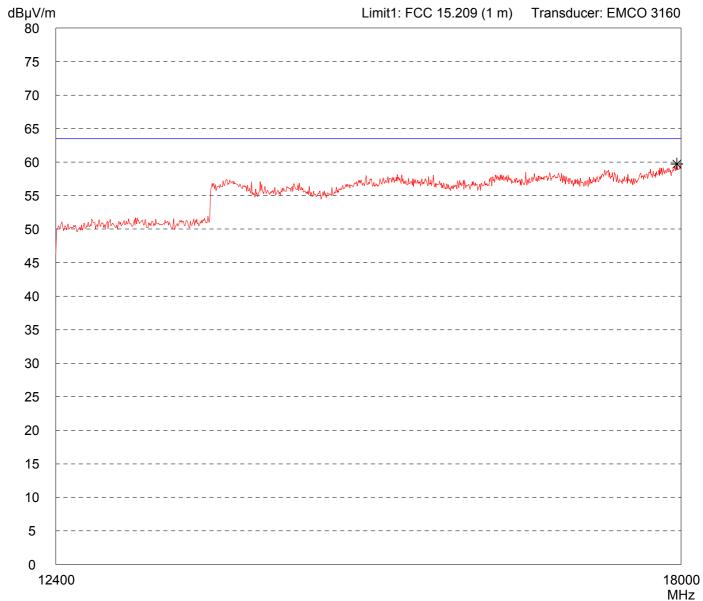
Model:		C
Wheelchair Remote C	Control	-
Serial no.:		
2930800004		-
Applicant:		
Ulrich Alber GmbH		
Test site:		-
Fully anechoic room,	cabin no. 2	
Tested on:		
Test distance 1 meter	•	
Horizontal Polarization	n	
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		L

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table

Detector:
Peak

List of values:
Selected by hand

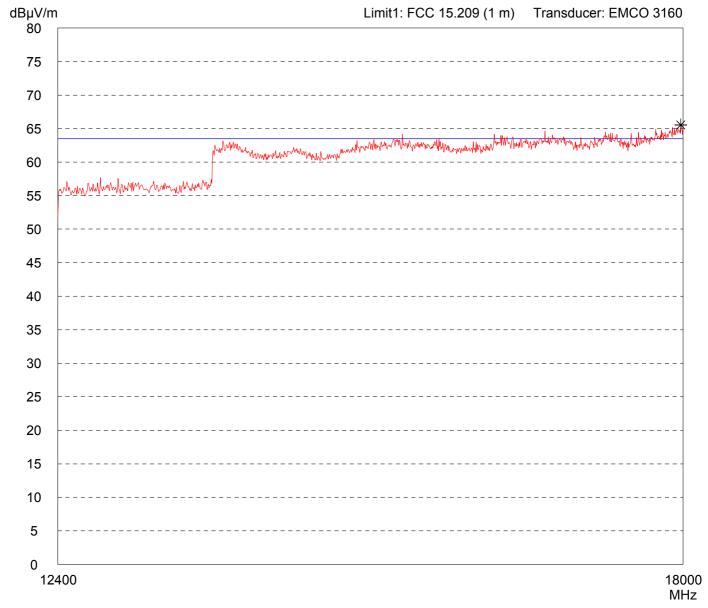


Result: Project file: 52305-80802

#### Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote	Control	Comment: - Battery supply
Serial no.: 2930800004		- Transmitting continously with modulation
Applicant: Ulrich Alber GmbH		- Middle frequency: 2445 MHz
Test site: Fully anechoic room,	cabin no. 2	- Position 1: EUT flat on table
Tested on: Test distance 1 mete Vertical Polarization	r	
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values:
Dook		Soloated by hand

Selected by hand Peak



Project file: Result: Prescan 52305-80802

## Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

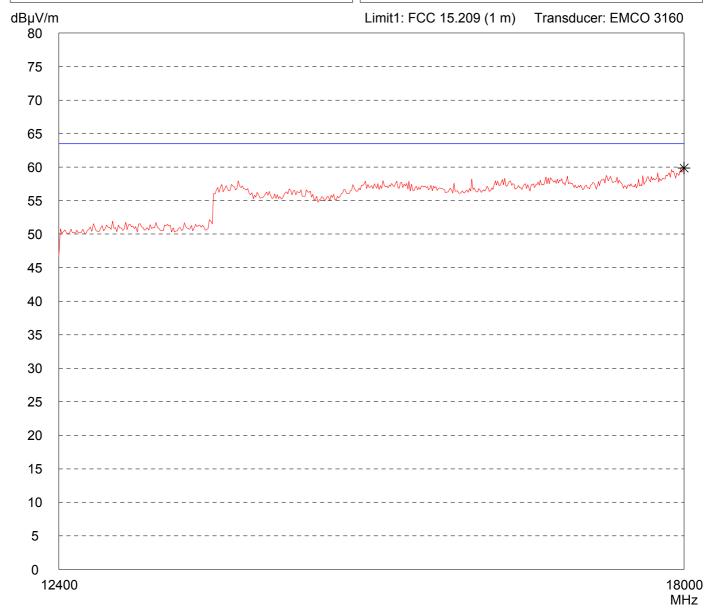
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan - VBW = 100 kHz

Project file:
52305-80802

### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control	Mode: - Battery supply
Serial No.: 2930800004	- Transmitting continously with modulation
Applicant:	- Middle frequency: 2445 MHz
Ulrich Alber GmbH	- Position 1:
	EUT flat on table
	- Polarisation: horizontal - Distance: 0.5 m
Ref.Level 74.8 dBµV AT 5 dB/Div.	Γ 0 dB Ref. Offset 42.8 dB
	Marker
	24.735556 GHz 60.61 dBµV
ļi	
" Milligrantight (ggantigheannagagainean), an ann ann ann ann ann ann ann ann ann	
┆ ╒╶╶╶╶╶╶╶╶ <del>╒</del> ╒╒	
Start 18.000 GHz	Stop 25.000 GHz
RBW 1 MHz VBW Tested by:	/ 1 MHz SWP 40 ms
M. Steindl	52305-080802
Date: 2008-07-04	

### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH		Mode: - Battery supply - Transmitting continously with modulation - Middle frequency: 2445 MHz - Position 1: EUT flat on table - Polarisation: vertical - Distance: 0.5 m
Ref.Level 74.8 dBµV 5 dB/Div.	ATT	0 dB Ref. Offset 42.8 c
	 	Marker24.828889 GHz
Start 18.000 GHz RBW 1 MHz	VBW 1	Stop 25.000 GH 1 MHz SWP 40 n
Tested by: M. Steindl  Date: 2008-07-04		Project-No.: 52305-080802

### Radiated Emission Test 9 kHz - 30 MHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control 2930800004 Applicant: Ulrich Alber GmbH Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: by hand default.emi

Comment:

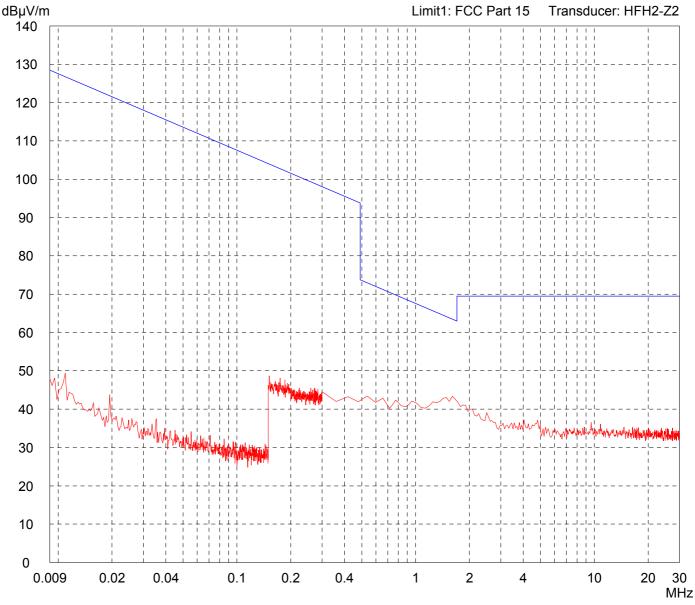
- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



 Result:
 Project file:

 Prescan
 52305-80802

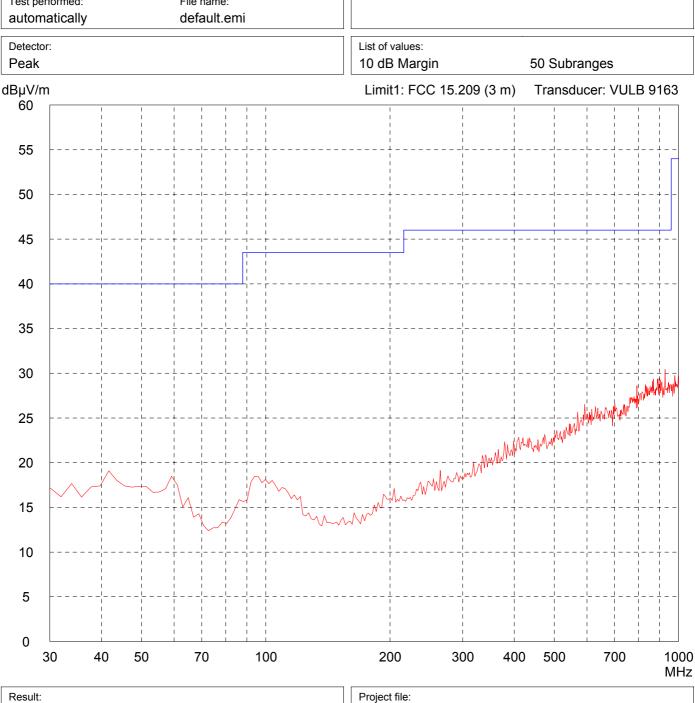
# Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cab	in no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position



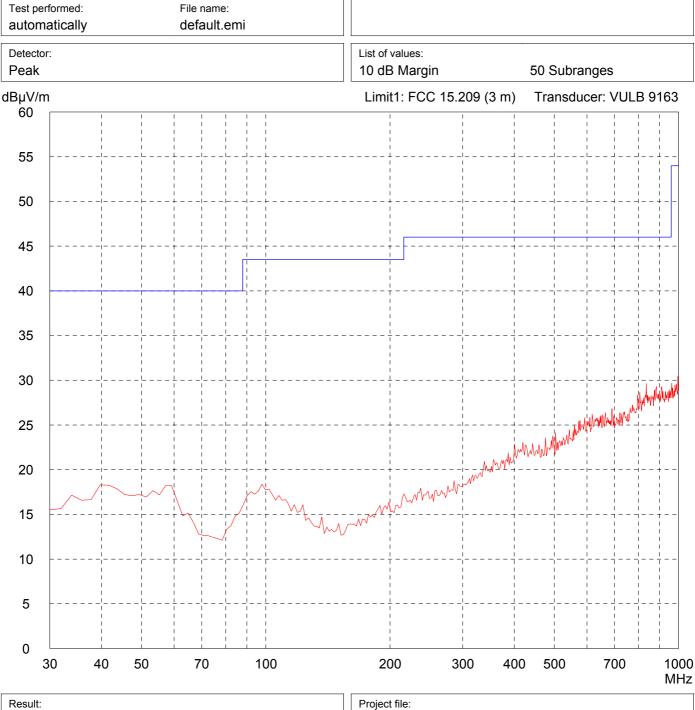
# Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

•	
Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cab	in no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector	

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side



## Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:	
Wheelchair Remote Control	
Serial no.:	
2930800004	
Applicant:	
Ulrich Alber GmbH	
Test site:	
Fully anechoic room, cabin no. 2	
Tested on:	
Test distance 3 metres	
Horizontal Polarization	
Date of test:	Operator:
07/01/2008	M. Steindl
0770172000	ivi. Stelliul
Test performed:	File name:
automatically	default.emi
_	

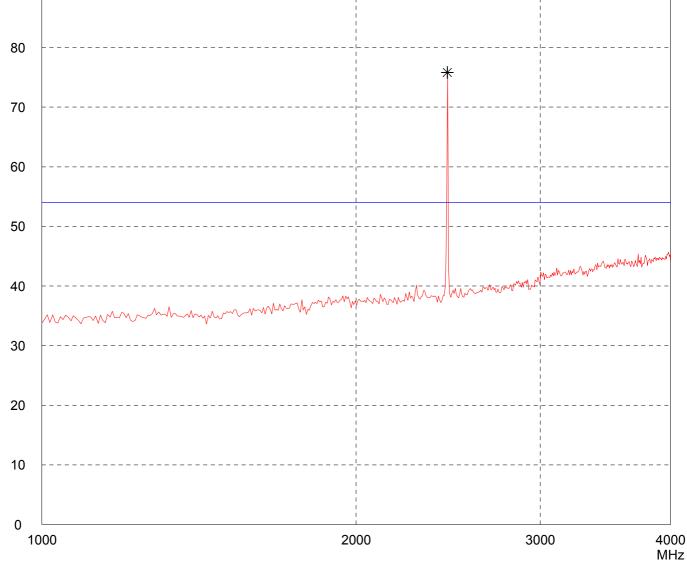
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side

Detector:
Peak

List of values:
Selected by hand

Limit1: FCC 15.209 (3 m) Transducer: EMCO 3115



## Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Contr	ol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabir	n no. 2
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
l <u> </u>	

30

20

10

1000

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side

2000

3000

4000

## Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

Comment:

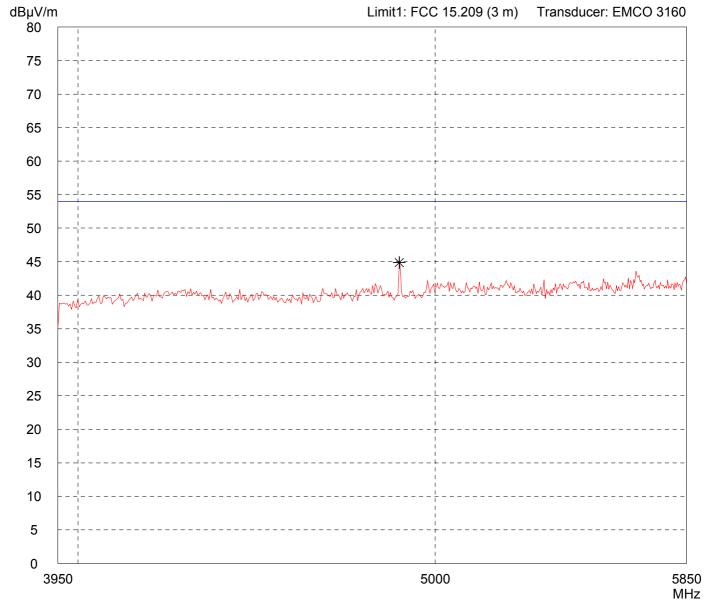
- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Result:
Prescan

Project file:
52305-80802

## Radiated Emission Test 3.95 GHz - 5.85 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Operator: Date of test: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Comment:

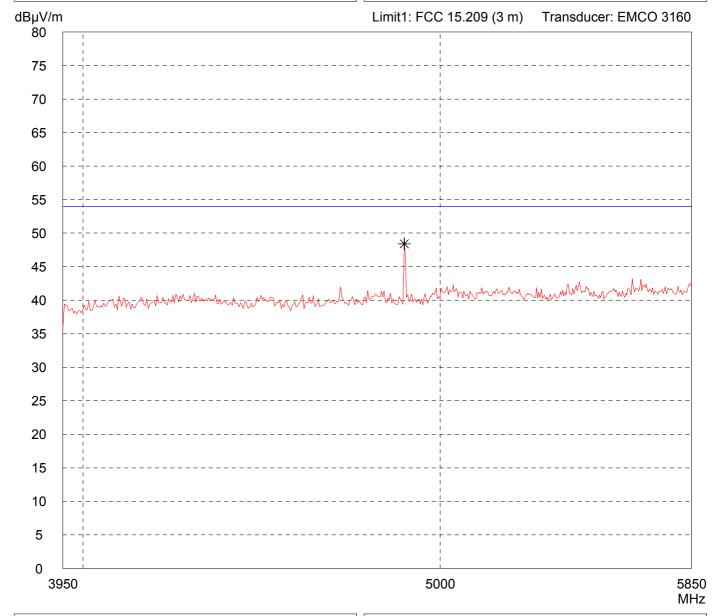
- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Result: Project file: 52305-80802

## Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Co	ntrol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, ca	abin no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

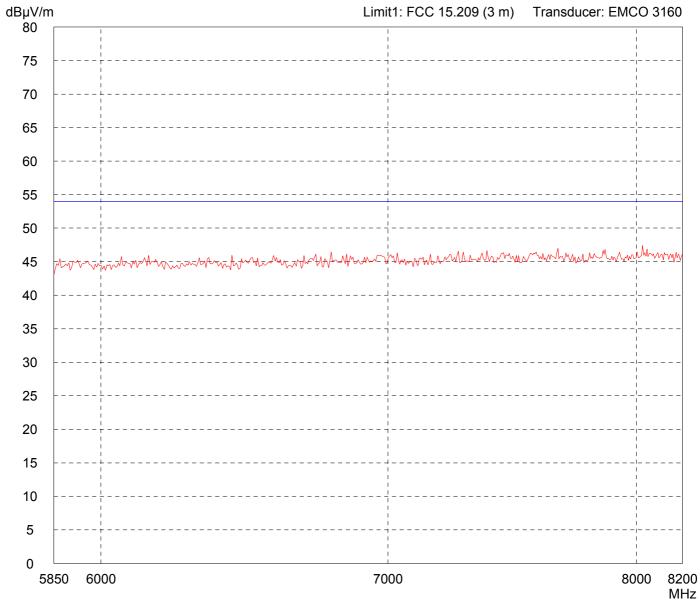
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



 Result:
 Project file:

 Prescan
 52305-80802

## Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

•		
Model: Wheelchair Remote Co	ontrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, ca	abin no. 2	
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

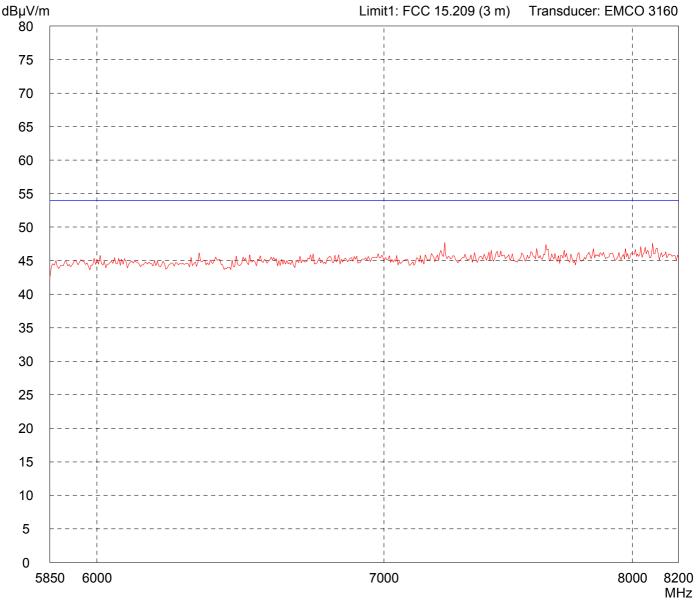
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



 Result:
 Project file:

 Prescan
 52305-80802

# Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

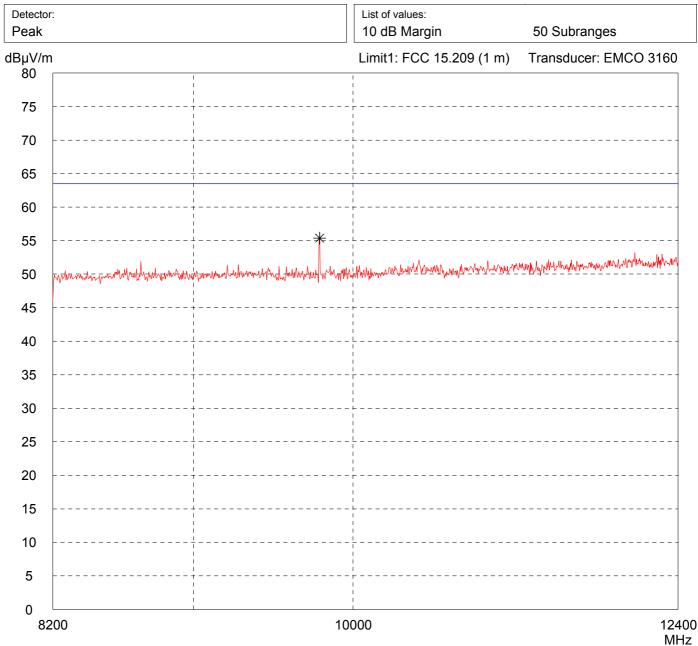
Model: Wheelchair Remote Conti	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side



Project file:

# Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

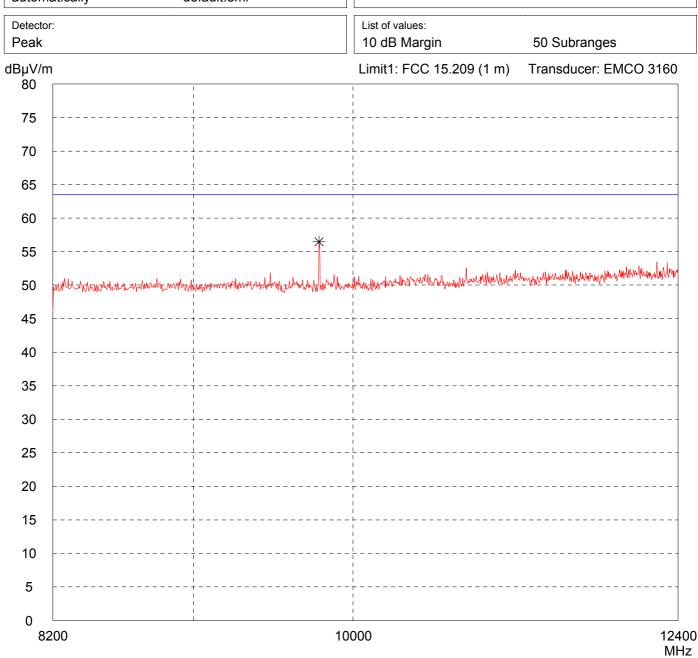
Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cab	in no. 2
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side



Project file:

## Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote (	Control	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room,	cabin no. 2	
Tested on: Test distance 1 metel Horizontal Polarizatio		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

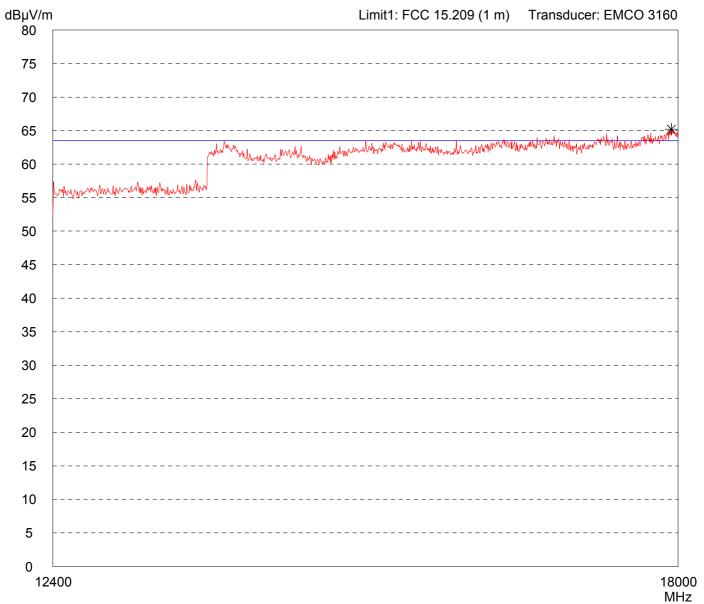
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



Result: Project file: 52305-80802

## Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control		
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Horizontal Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

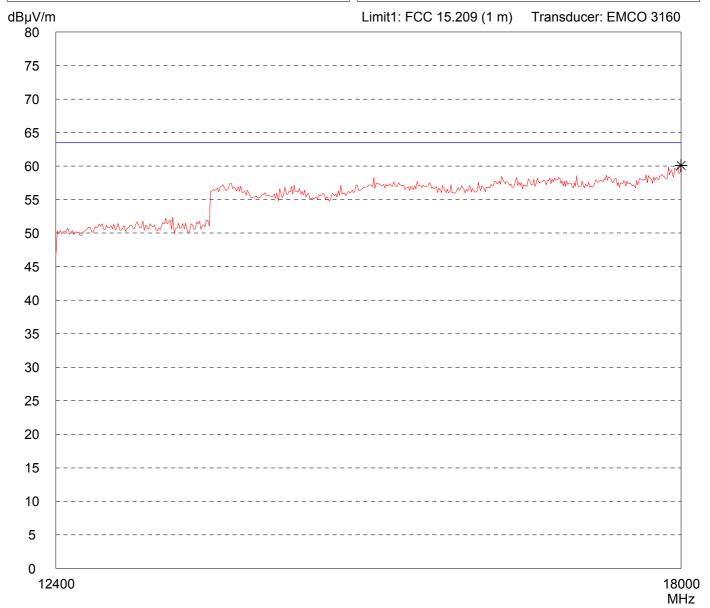
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



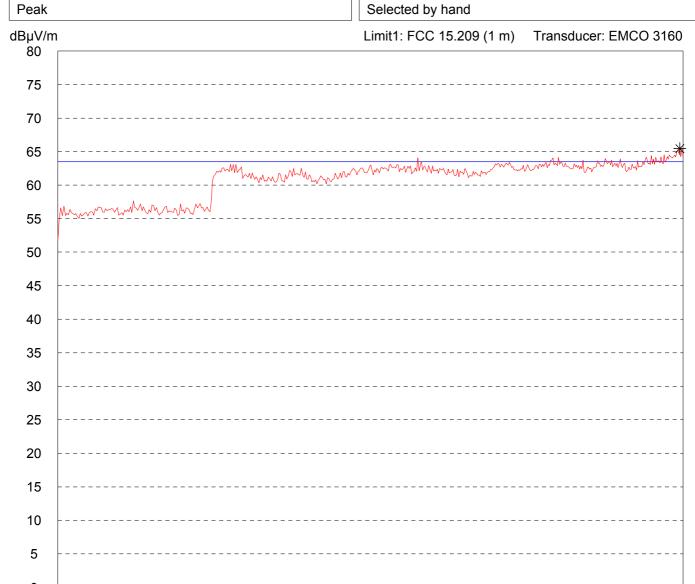
Result:
Prescan - VBW = 100 kHz

Project file:
52305-80802

#### Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2		Comment: - Battery supply
		- Transmitting cor
		Tested on: Test distance 1 meter Vertical Polarization
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values:

- ntinously with modulation
- cy: 2445 MHz
- le



Result: Project file: Prescan 52305-80802

18000  $\mathsf{MHz}$ 

12400

## Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi Detector:

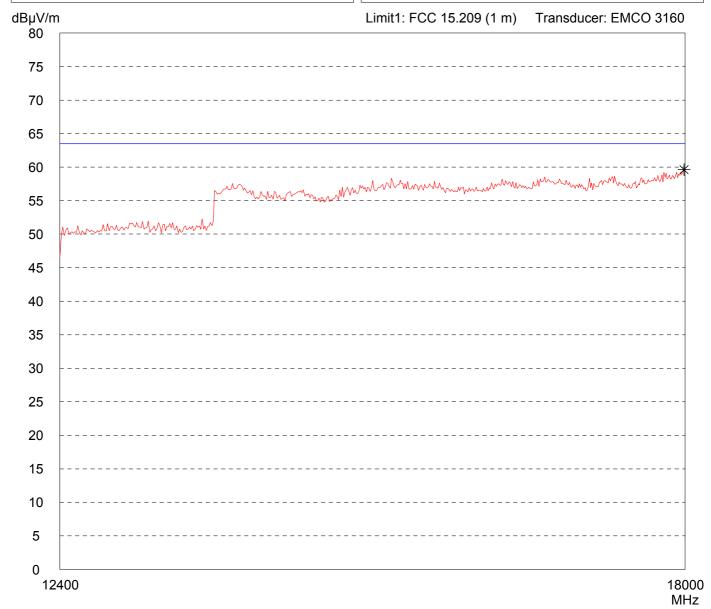
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



 Result:
 Project file:

 Prescan - VBW = 100 kHz
 52305-80802

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Ref. Offset 42.8 dB
Marker 23.35 1111 GHz 60.64 dBμV
Stop 25.000 GHz SWP 40 ms

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Middle frequency: 2445 MHz - Position 2: EUT on long side - Polarisation: vertical - Distance: 0.5 m
L Ref.Level 74.8 dBμV AT 5 dB/Div.	IT 0 dB Ref. Offset 42.8 dB
	Marker 24.797778 GHz 61.16 dBµV
Start 18.000 GHz RBW 1 MHz VB  Tested by: M. Steindl  Date: 2008-07-04	Stop 25.000 GHz W 1 MHz SWP 40 ms Project-No.: 52305-080802

Model: Wheelchair Remote Control 2930800004 Applicant: Ulrich Alber GmbH Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: by hand default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position

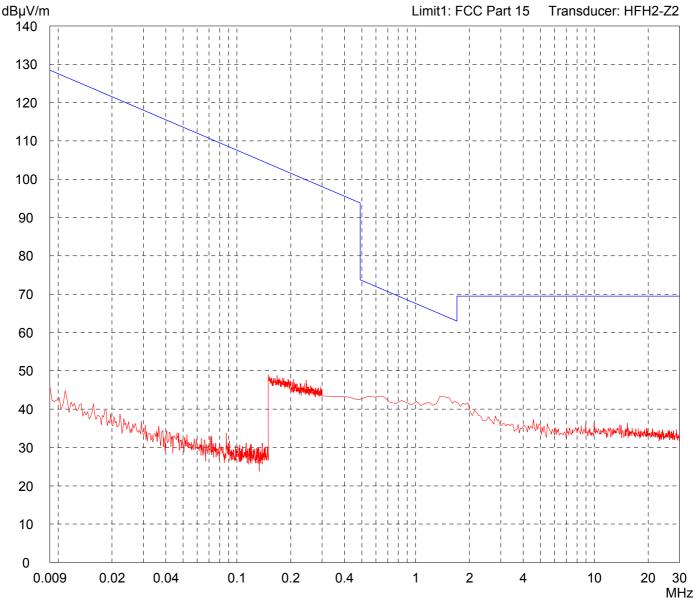
Detector:

Peak

List of values:

10 dB Margin

50 Subranges



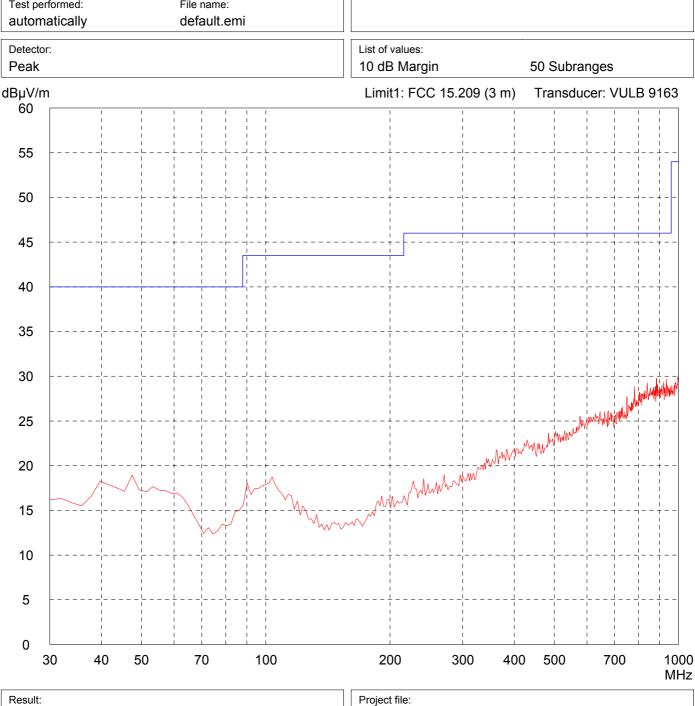
Result: Project file: 52305-80802

Model: Wheelchair Remote Co	ontrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, ca	abin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position

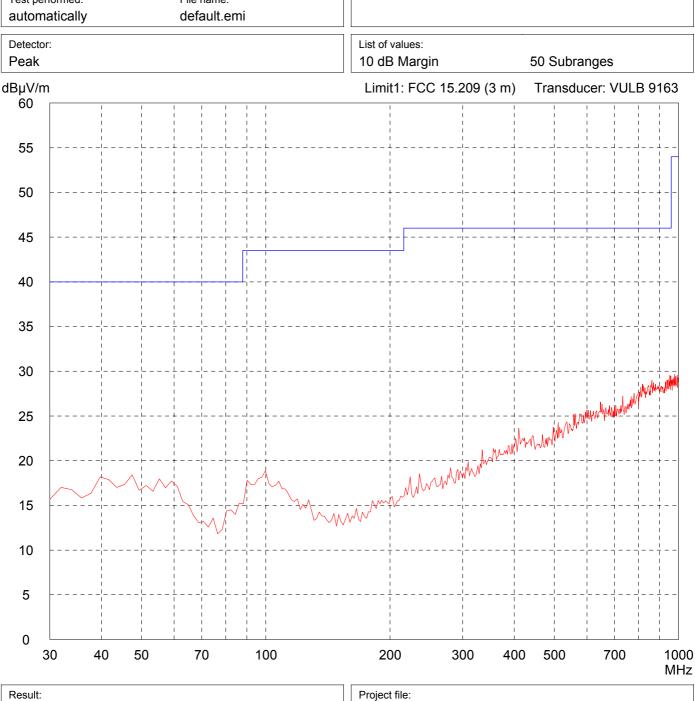


Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cab	in no. 2
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
D	

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position



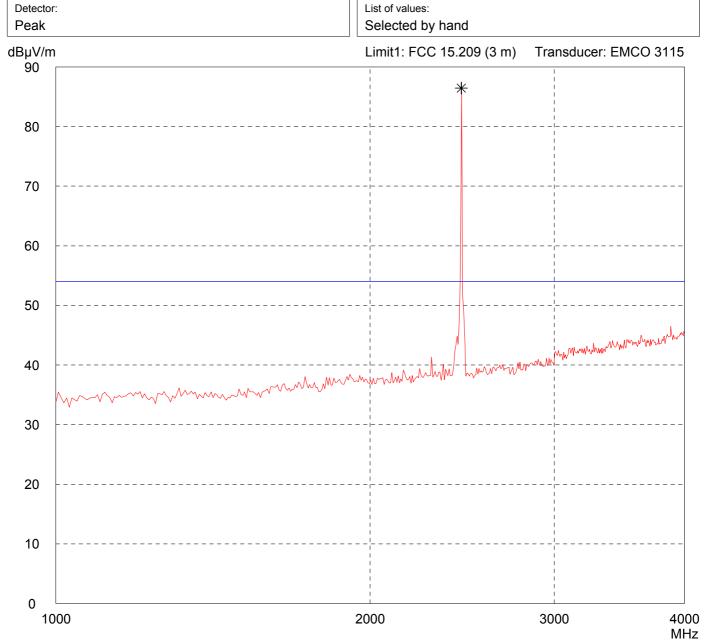
Model: Wheelchair Remote Contr	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
l <u> </u>	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position



Project file:

Model: Wheelchair Remote Con	trol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cab	oin no. 2
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Datastor	

1000

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position

Detector:
Peak

BμV/m
Selected by hand

Limit1: FCC 15.209 (3 m) Transducer: EMCO 3115

90

80

70



2000

3000

4000

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Comment:

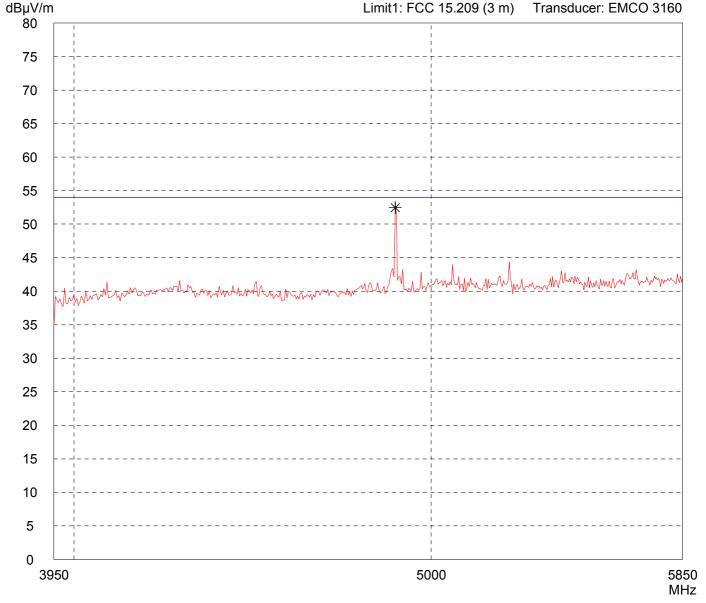
- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:

Selected by hand



Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Comment:

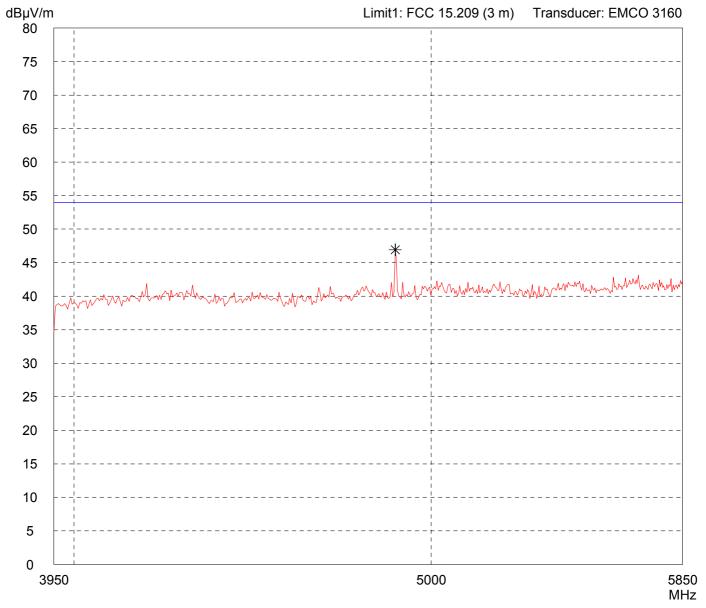
- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Result: Project file: 52305-80802

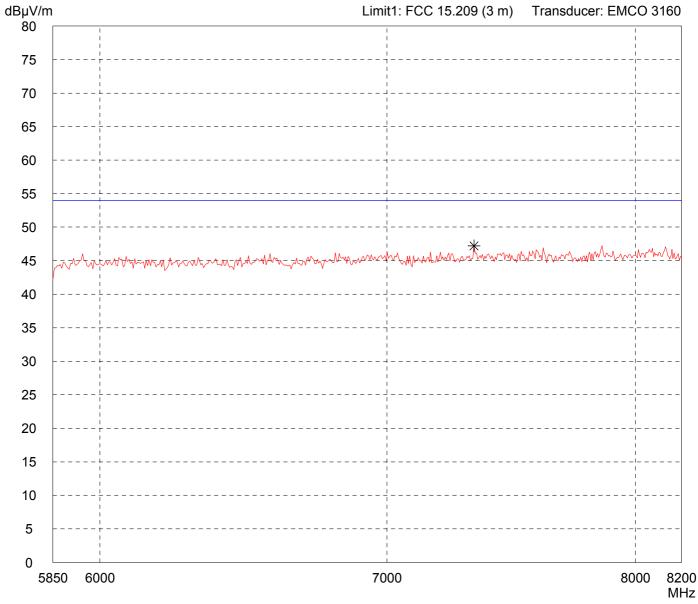
Model: Wheelchair Remote Contr	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position

Detector:
Peak

List of values:
Selected by hand



Model: Wheelchair Remote Conti	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

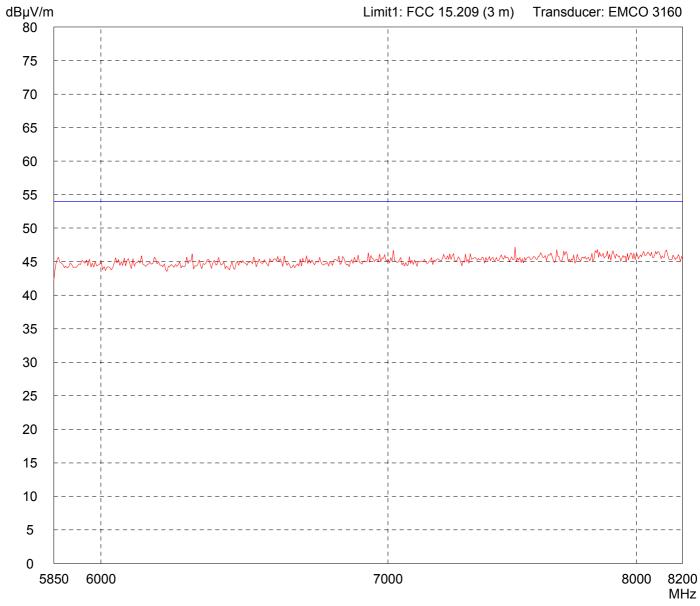
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



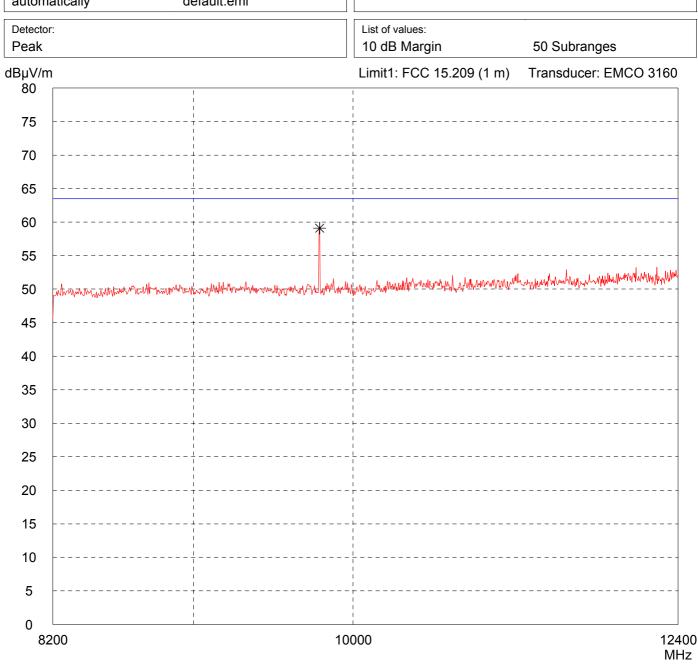
Model: Wheelchair Remote Co	ntrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, ca	abin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position



Project file:

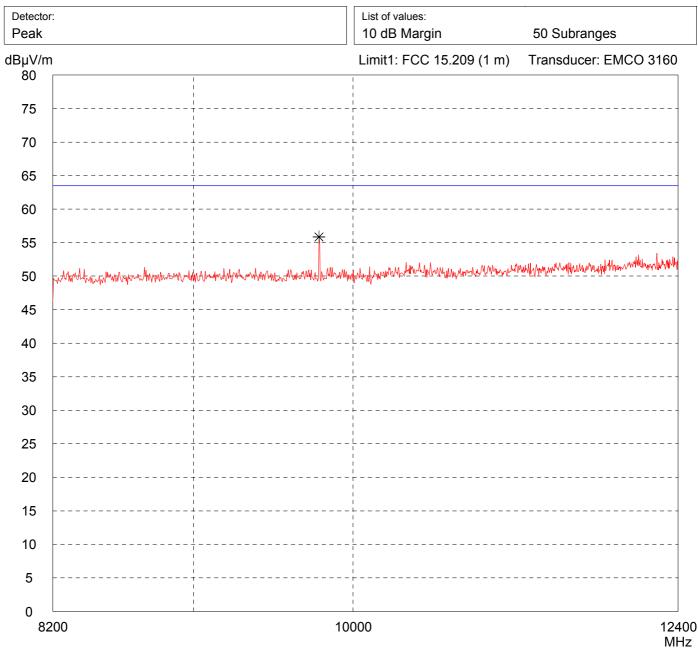
Model: Wheelchair Remote Co	ontrol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, ca	abin no. 2
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Dotostor:	

Result:

Prescan

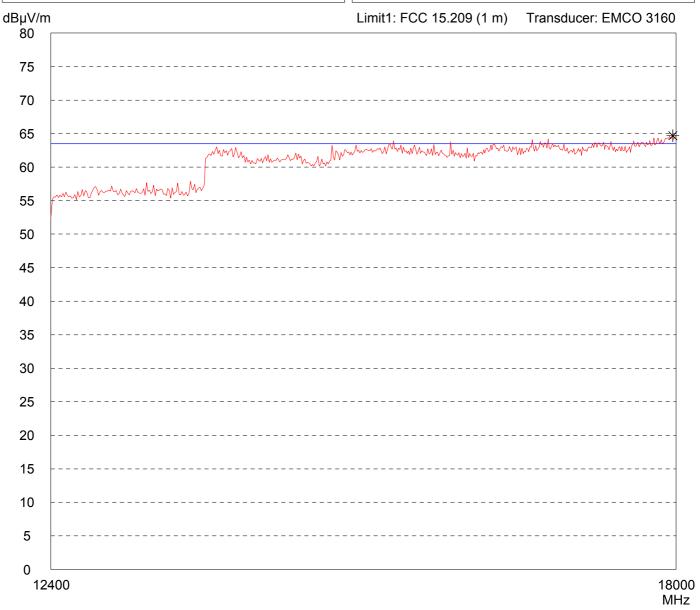
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position



Project file:

Model:		Comment:
Wheelchair Remote	Control	- Battery supply
Serial no.: 2930800004		- Transmitting continously with modulation
Applicant: Ulrich Alber GmbH		- Middle frequency: 2445 MHz
Test site: Fully anechoic room,	cabin no. 2	- Position 3: EUT in upright position
Tested on: Test distance 1 mete Horizontal Polarization	•	
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values:
Peak		Selected by hand



Result:
Project file:
52305-80802

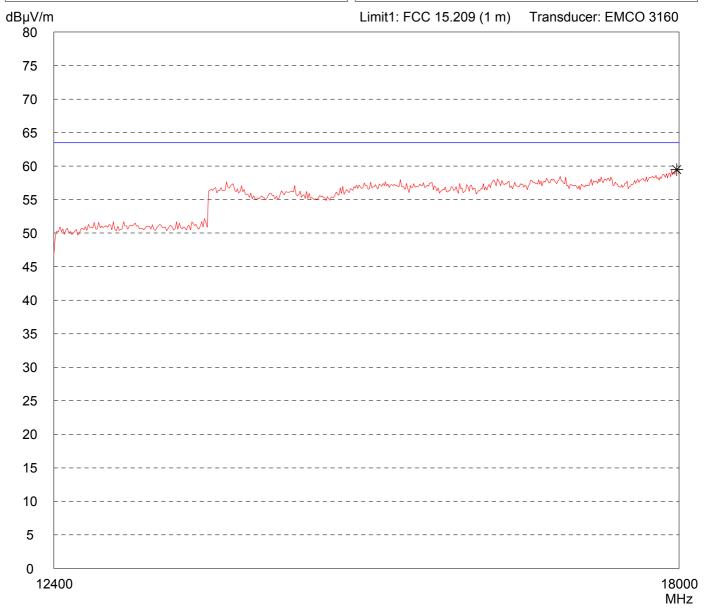
Model:		
Wheelchair Remote Co	ontrol	
Serial no.:		
2930800004		
Applicant:		
Ulrich Alber GmbH		
Test site:		
Fully anechoic room, ca	abin no. 2	
Tested on:		
Test distance 1 meter		
Horizontal Polarization		
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position

Detector:
Peak

List of values:
Selected by hand



Result:
Prescan - VBW = 100 kHz

Project file:
52305-80802

Model:		
Wheelchair Remote Control		
Serial no.:		
2930800004		
Applicant:		
Ulrich Alber GmbH		
Test site:		
Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 1 meter		
Vertical Polarization		
Date of test:	Operator:	
_ = = = = = = = = = = = = = = = = = = =	M. Steindl	
07/01/2008	w. Steinai	
Test performed:	File name:	
automatically	default.emi	
Detector:		

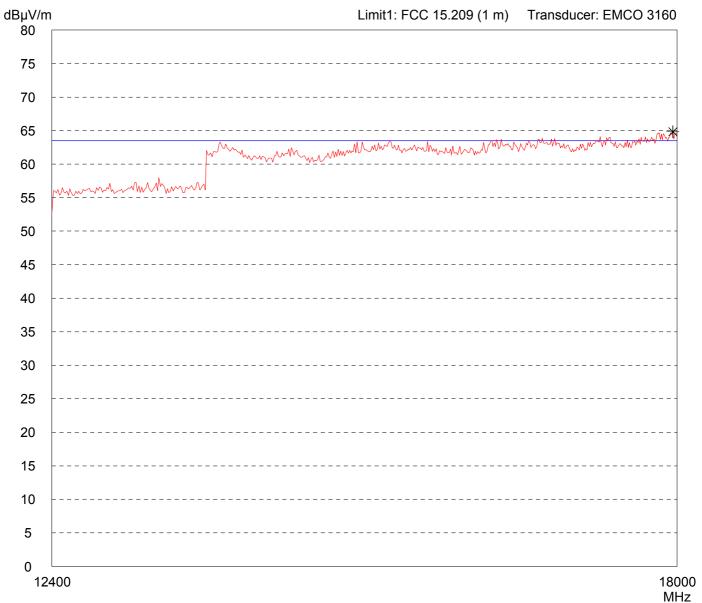
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Result:
Limit kept
Project file:
52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

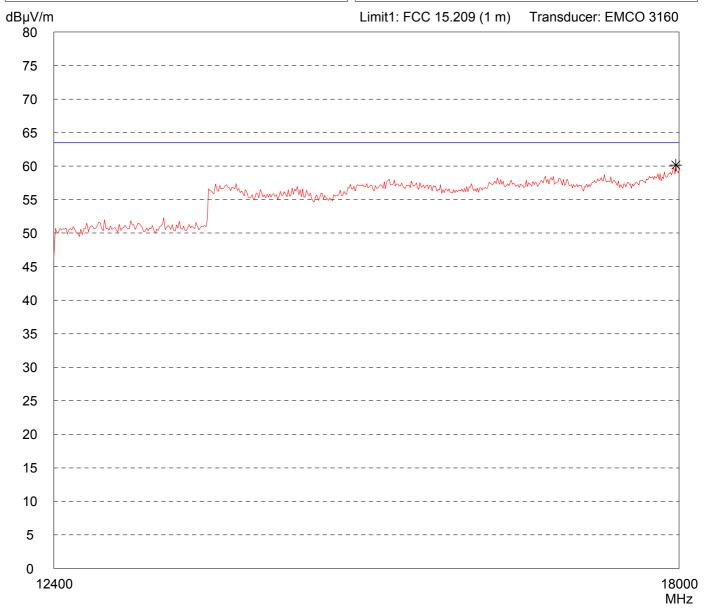
Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2445 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan - VBW = 100 kHz

Project file:
52305-80802

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Middle frequency: 2445 MHz - Position 3: EUT in upright position - Polarisation: horizontal - Distance: 0.5 m		
Ref.Level 74.8 dBμV ATT 5 dB/Div.	0 dB Ref. Offset 42.8 dB		
	Marker		
Start 18.000 GHz RBW 1 MHz  VBW  Tested by: M. Steindl  Date:	Stop 25.000 GHz 1 MHz SWP 40 ms  Project-No.: 52305-080802		

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Middle frequency: 2445 MHz - Position 3: EUT in upright position - Polarisation: vertical - Distance: 0.5 m		
Ref.Level 74.8 dBµV ATT 5 dB/Div.	0 dB Ref. Offset 42.8 dB		
	Marker 18.062222 GHz 60.64 dBμV		
Start 18.000 GHz RBW 1 MHz  VBW  Tested by: M. Steindl	Stop 25.000 GHz 1 MHz SWP 40 ms  Project-No.: 52305-080802		

Model: Wheelchair Remote Control 2930800004 Applicant: Ulrich Alber GmbH Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: by hand default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table

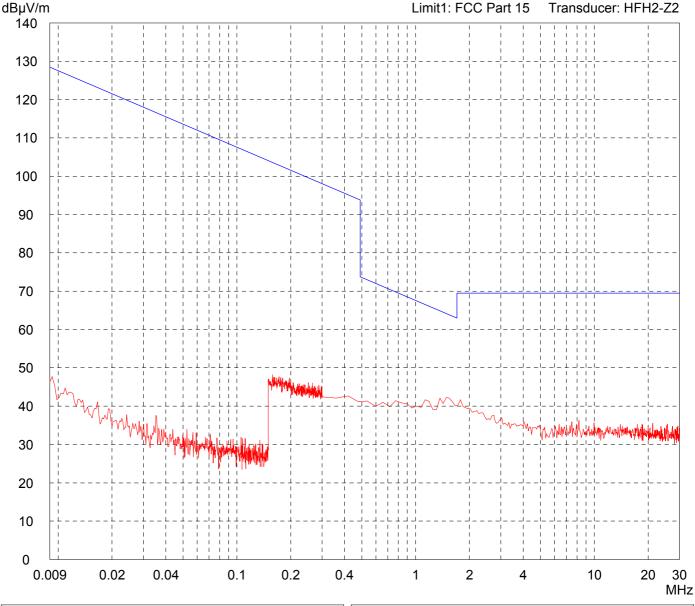
Detector:

Peak

List of values:

10 dB Margin

50 Subranges

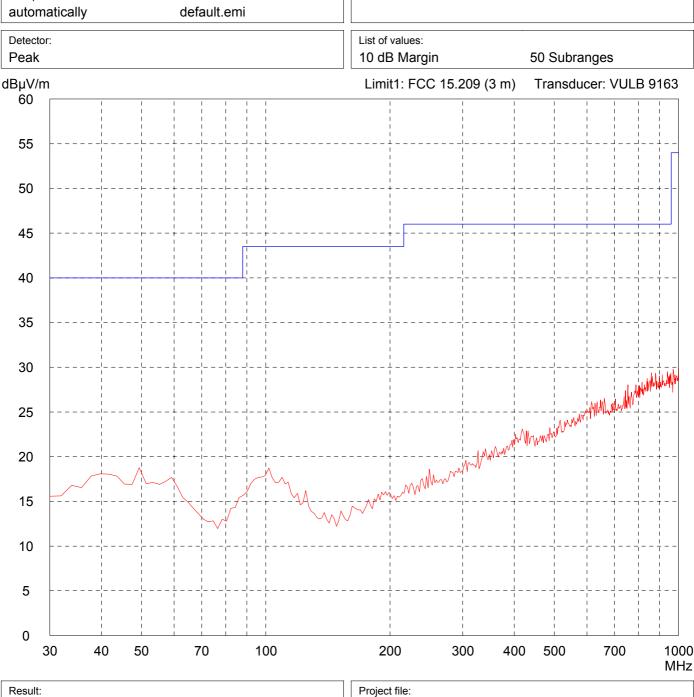


Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table

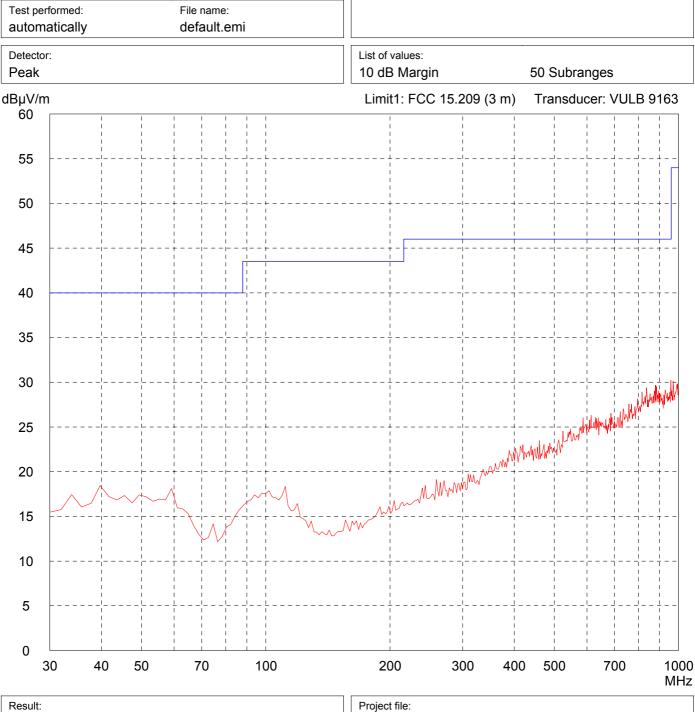


Model: Wheelchair Remote Con	trol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table



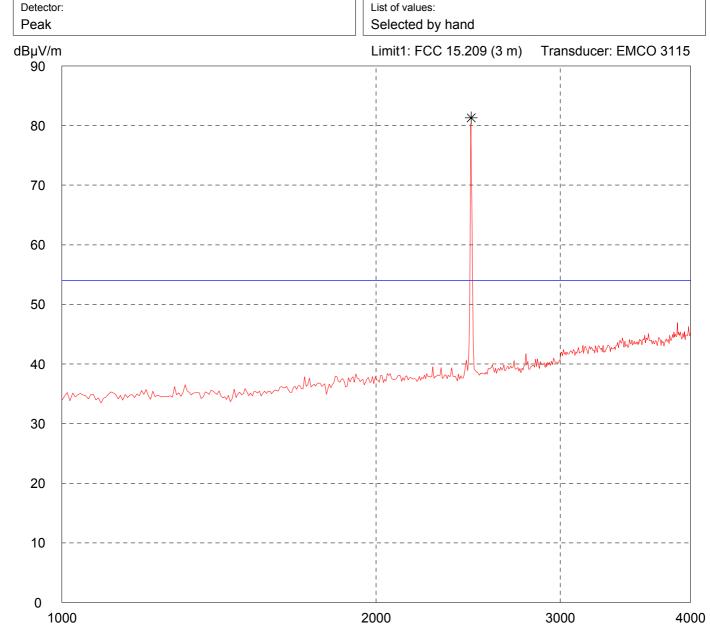
Model: Wheelchair Remote Contr	ol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Horizontal Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
_		

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2465 MHz
- Position 1: EUT flat on table



Project file:

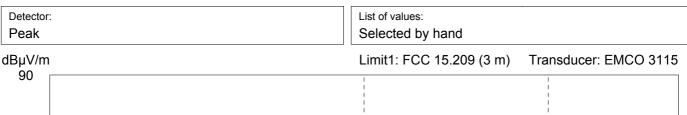
52305-80802

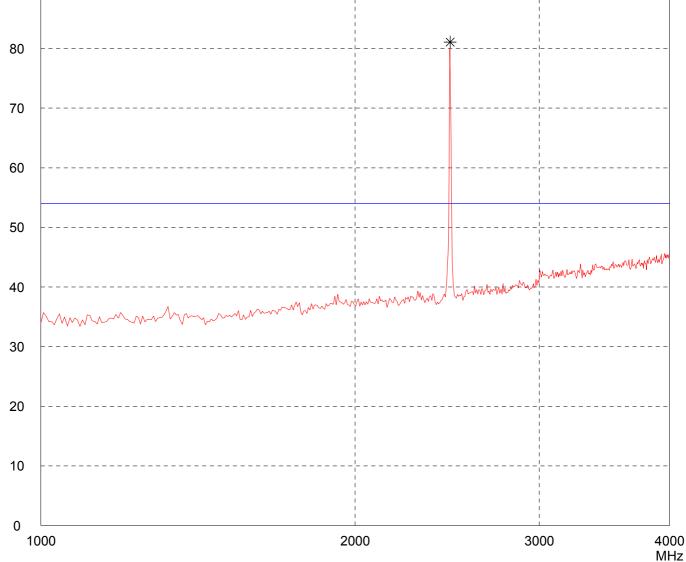
MHz

Model: Wheelchair Remote Con	trol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2465 MHz
- Position 1: EUT flat on table





Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Operator: Date of test: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Comment:

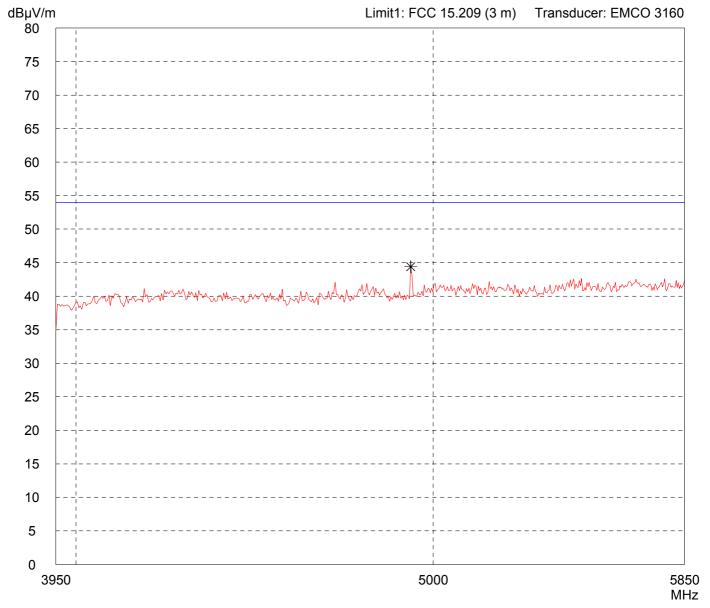
- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Operator: Date of test: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Comment:

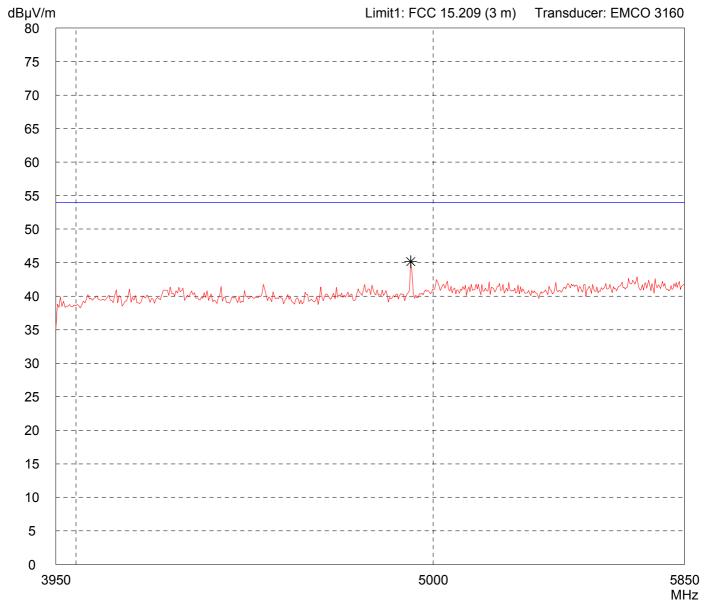
- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Model: Wheelchair Remote Contr	rol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Horizontal Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

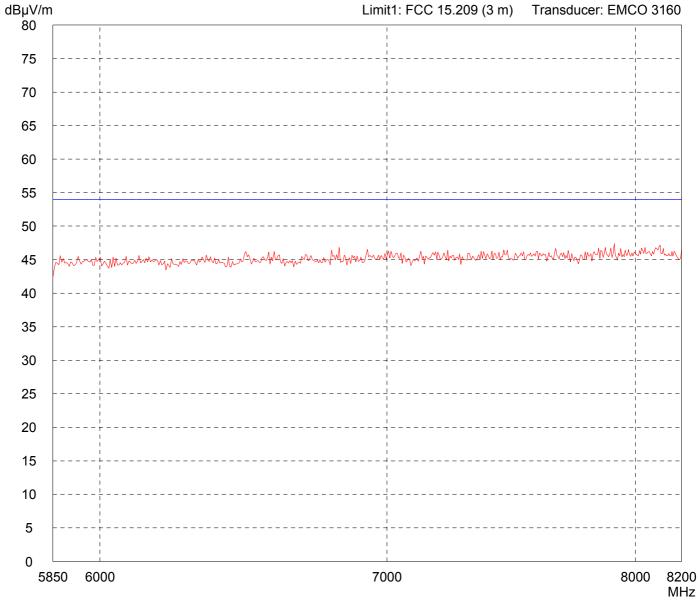
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Model: Wheelchair Remote Conti	rol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

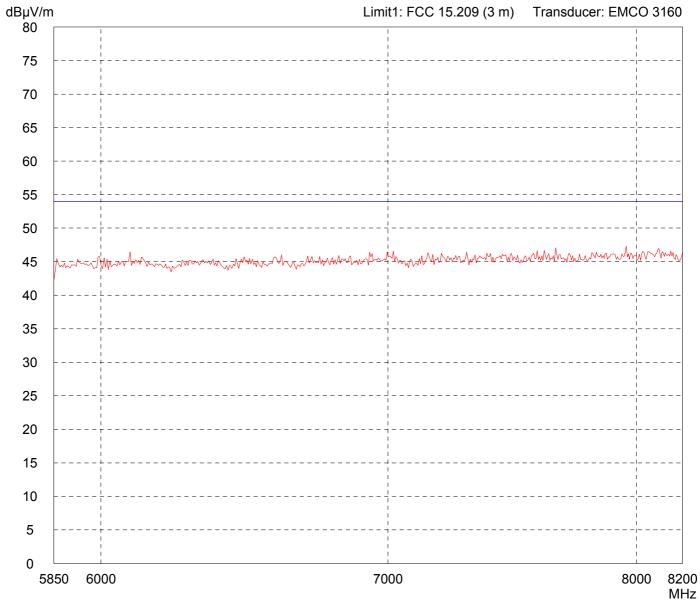
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



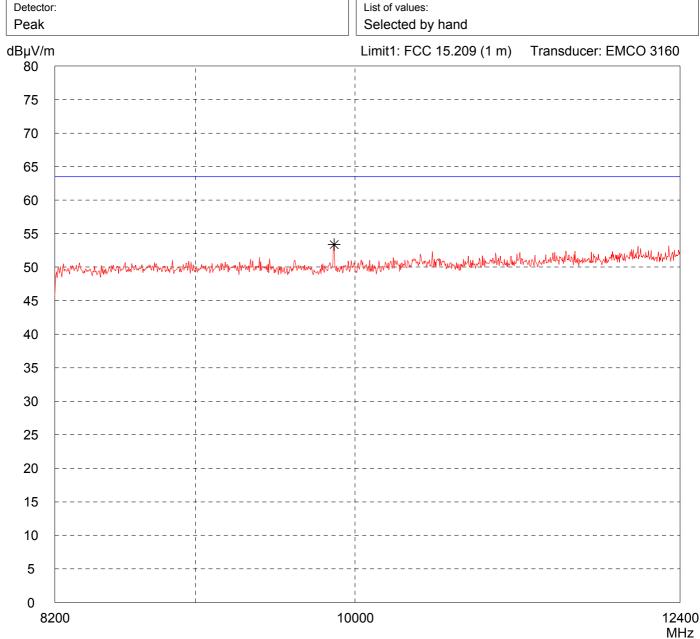
Model: Wheelchair Remote C	ontrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Horizontal Polarization	ı	
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table



Project file:

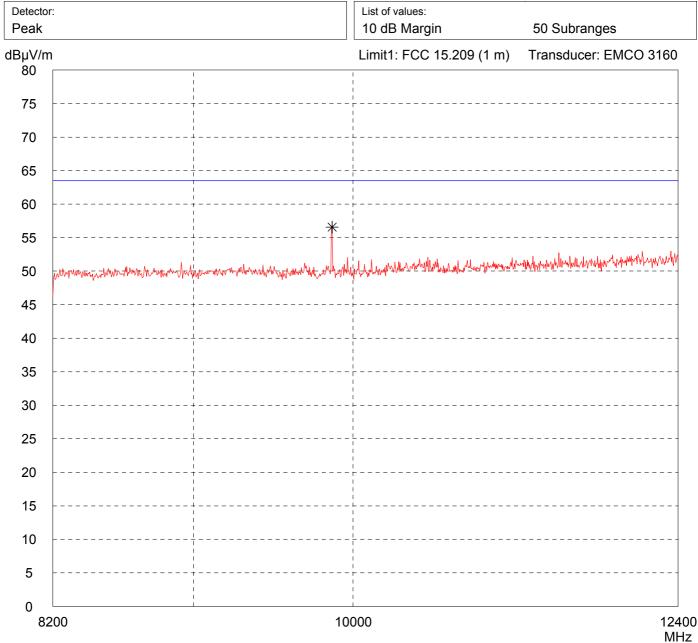
Model: Wheelchair Remote Cont	rol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table



Project file:

Model: Wheelchair Remote Co	ontrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site:		
Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 1 meter Horizontal Polarization		
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		

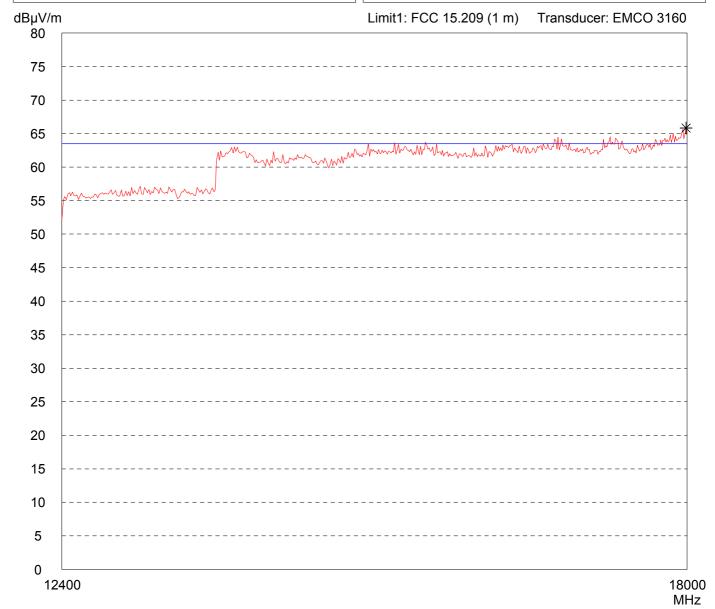
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table

Detector:

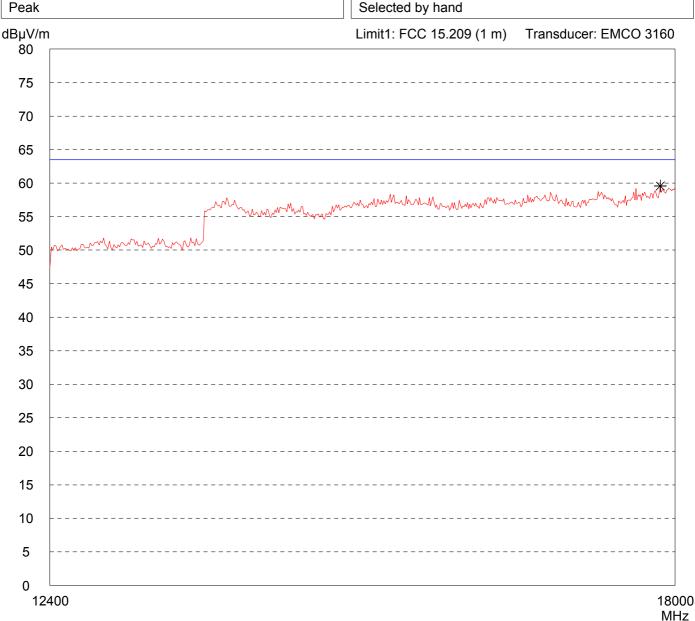
Peak

List of values:
Selected by hand



Result: Project file: 52305-80802

Model: Comment: Wheelchair Remote Control - Battery supply Serial no.: - Transmitting continously with modulation 2930800004 Applicant: - Highest frequency: 2465 MHz Ulrich Alber GmbH - Position 1: Test site: EUT flat on table Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi Detector: List of values:



Result: Project file: Prescan 52305-80802

Model:		
Wheelchair Remote Cor	ntrol	
Serial no.:		
2930800004		
Applicant:		
Ulrich Alber GmbH		
Test site:		
Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 1 meter		
Vertical Polarization		
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		
Detector:		

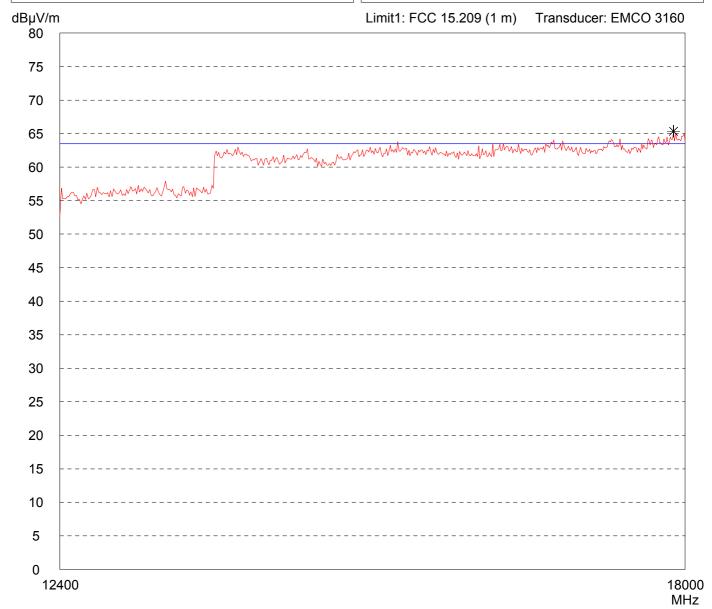
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Result: Project file: 52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

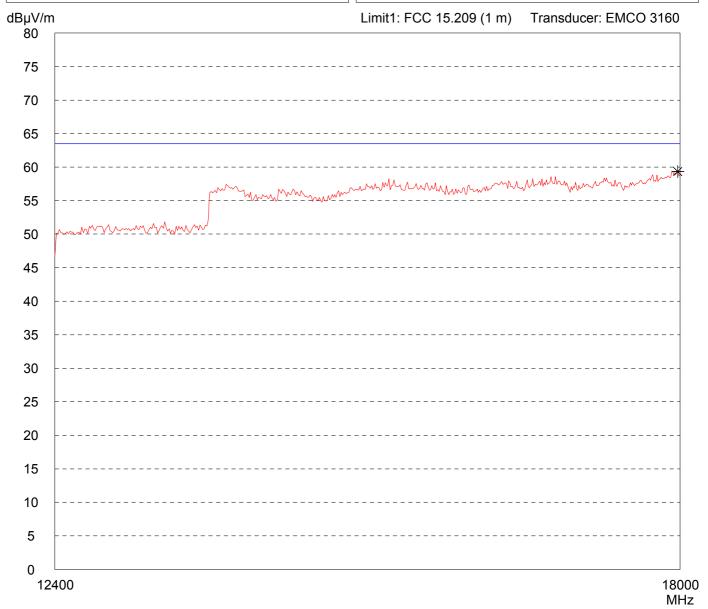
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan - VBW = 100 kHz

Project file:
52305-80802

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Highest frequency: 2465 MHz - Position 1: EUT flat on table - Polarisation: horizontal - Distance: 0.5 m
Ref.Level 74.8 dBµV A 5 dB/Div.	ATT 0 dB Ref. Offset 42.8 dB
	Markęr 24.922222 GHz 61.60 dΒμV
Start 18.000 GHz RBW 1 MHz VI Tested by: M. Steindl Date: 2008-07-04	Stop 25.000 GHz BW 1 MHz SWP 40 ms  Project-No.: 52305-080802

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Highest frequency: 2465 MHz - Position 1: EUT flat on table - Polarisation: vertical - Distance: 0.5 m
Ref.Level 74.8 dB $\mu$ V ATT 5 dB/Div.	0 dB Ref. Offset 42.8 dB
	Marker
	24.92222 GHz 61.60 dBµV
Start 18.000 GHz RBW 1 MHz VBW	Stop 25.000 GHz 1 MHz SWP 40 ms
Tested by: M. Steindl  Date: 2008-07-04	Project-No.: 52305-080802

Model: Wheelchair Remote Control 2930800004 Applicant: Ulrich Alber GmbH Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: by hand default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side

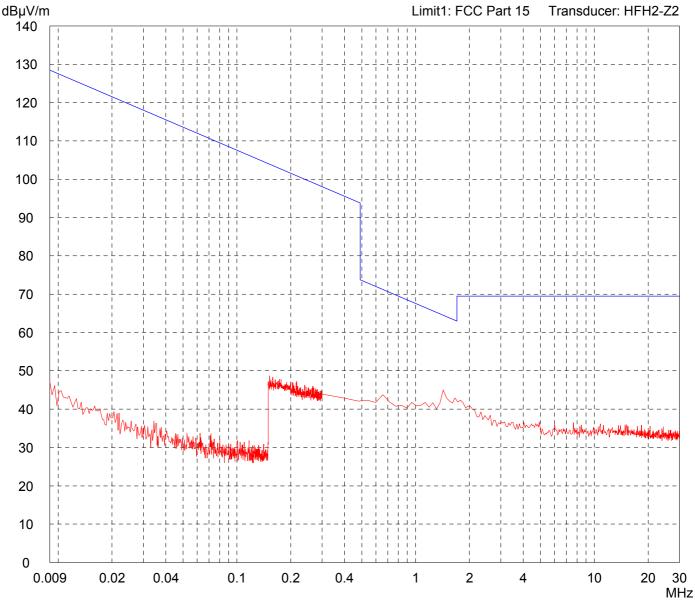
Detector:

Peak

List of values:

10 dB Margin

50 Subranges



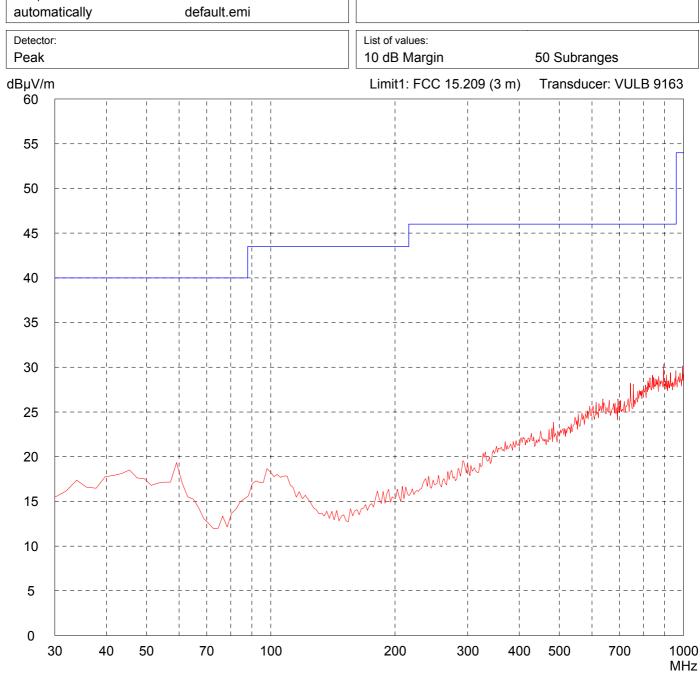
Model: Wheelchair Remote Cor	ntrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Horizontal Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
<b>D</b>		

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side



Project file:

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side

Detector: List of values: Peak 10 dB Margin 50 Subranges dBµV/m Limit1: FCC 15.209 (3 m) Transducer: VULB 9163 60 55 50 45 40 35 30 25 20 15 10

Result:

5

0

30

40

50

70

100

Prescan

Project file: 52305-80802

200

300

400

500

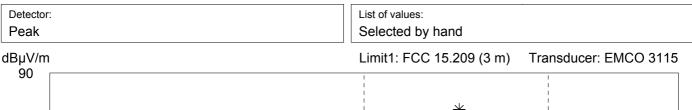
700

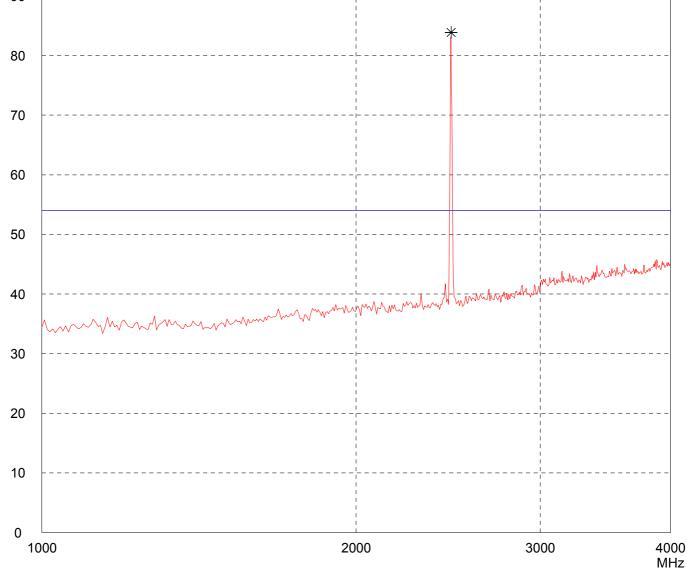
1000 MHz

Model: Wheelchair Remote Contr	ol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
_	

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2465 MHz
- Position 2: EUT on long side



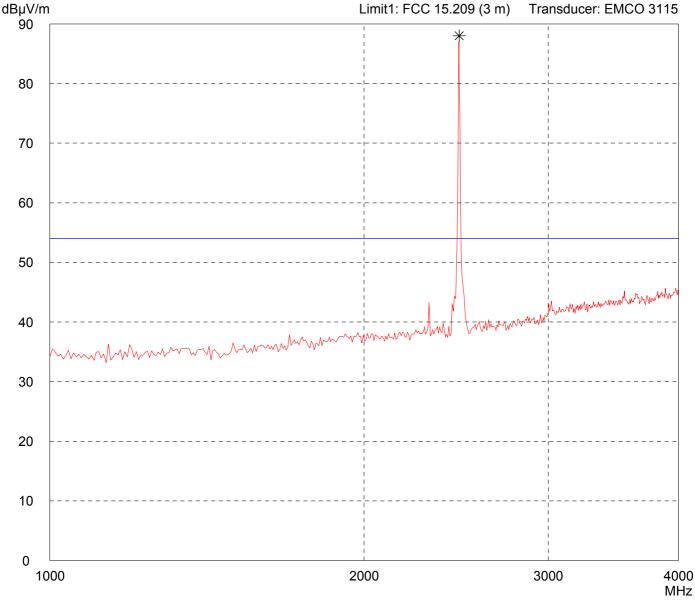


Model: Wheelchair Remote Con	trol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2465 MHz
- Position 2: EUT on long side





 Result:
 Project file:

 52305-80802
 52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

Comment:

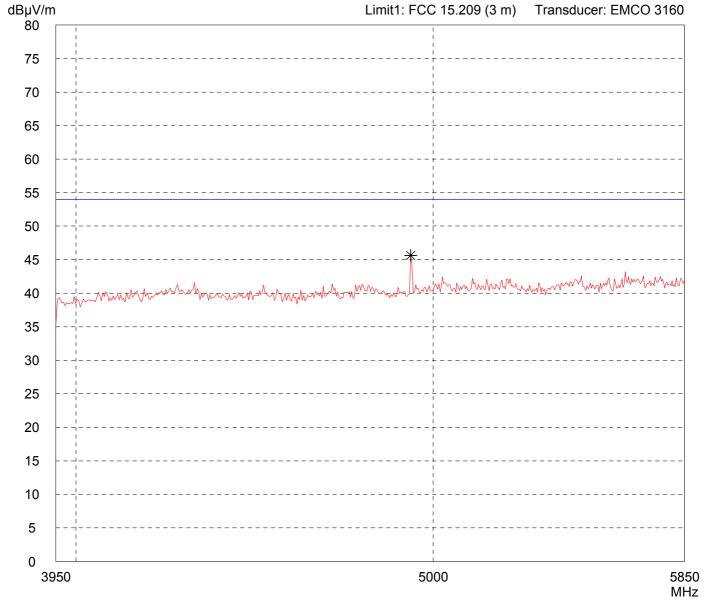
- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



 Result:
 Project file:

 Prescan
 52305-80802

Model: Wheelchair Remote Co	ntrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	

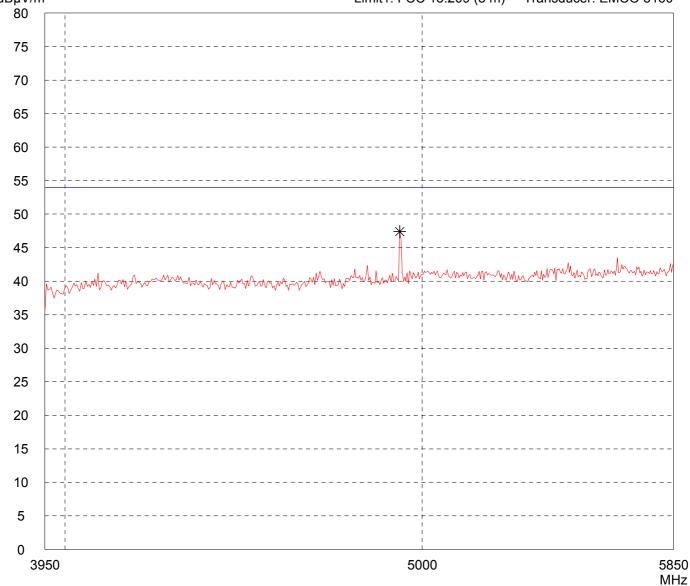
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side

 Detector:
 Peak
 List of values:

 10 dB Margin
 50 Subranges

 dBμV/m
 Limit1: FCC 15.209 (3 m)
 Transducer: EMCO 3160



 Result:
 Project file:

 Prescan
 52305-80802

Model: Wheelchair Remote Contr	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

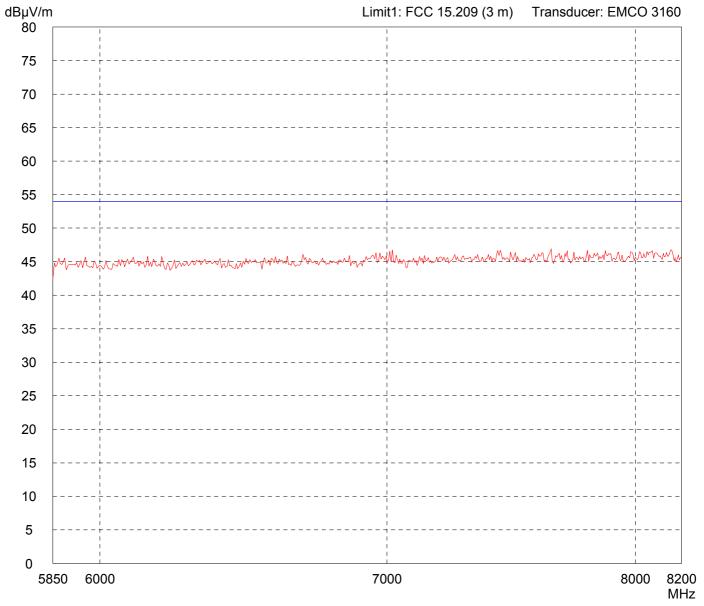
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



 Result:
 Project file:

 52305-80802
 52305-80802

Model: Wheelchair Remote Con	itrol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cal	oin no. 2	
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

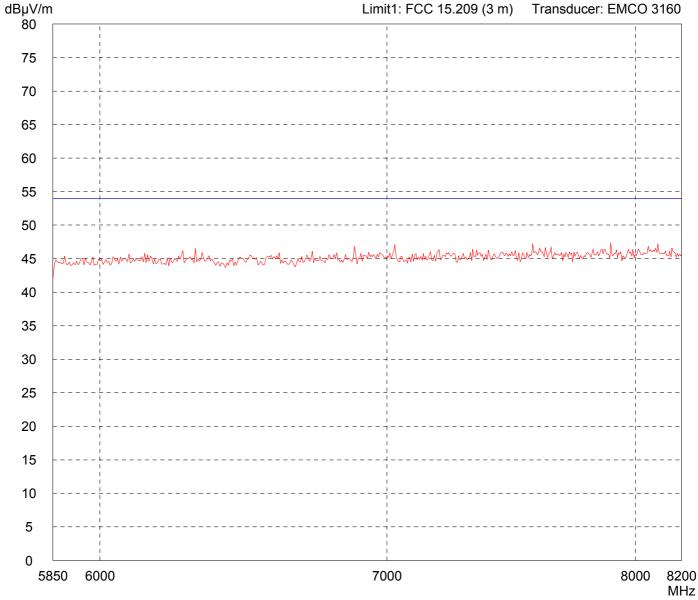
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

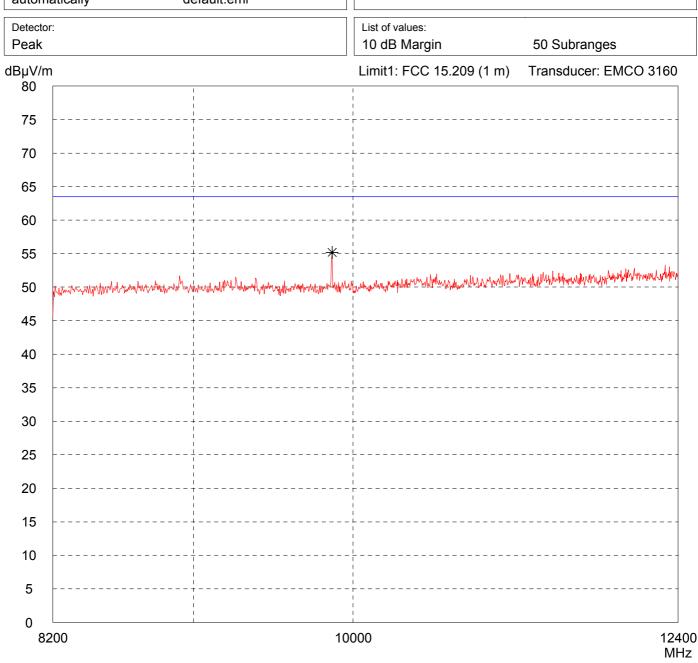
Model: Wheelchair Remote Conti	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detectors	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side



Project file:

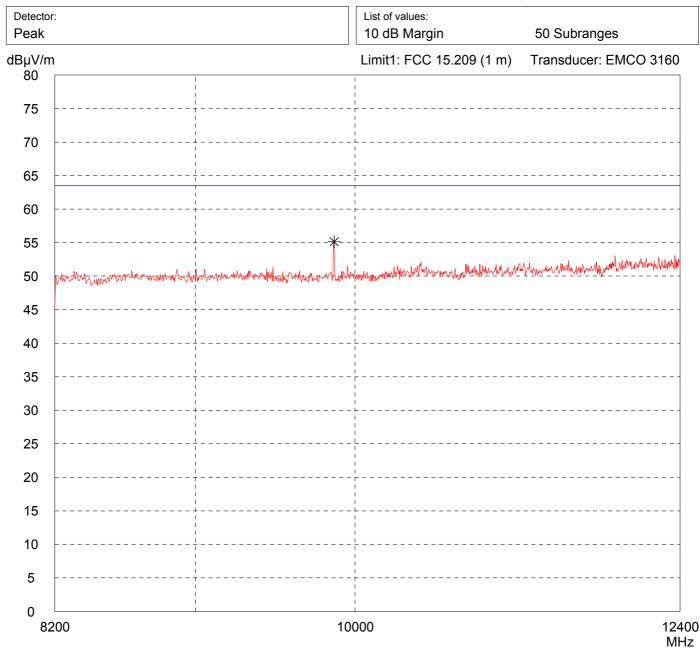
Model: Wheelchair Remote Co	ontrol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, ca	abin no. 2
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Dotostor:	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side



Project file:

Model:	
Wheelchair Remote Contro	ol
Serial no.:	
2930800004	
Applicant:	
Ulrich Alber GmbH	
Test site:	
Fully anechoic room, cabin no. 2	
Tested on:	
Test distance 1 meter	
Horizontal Polarization	
Date of test:	Operator:
07/01/2008	M. Steindl
Test performed:	File name:
automatically	default.emi
Detector:	
1	

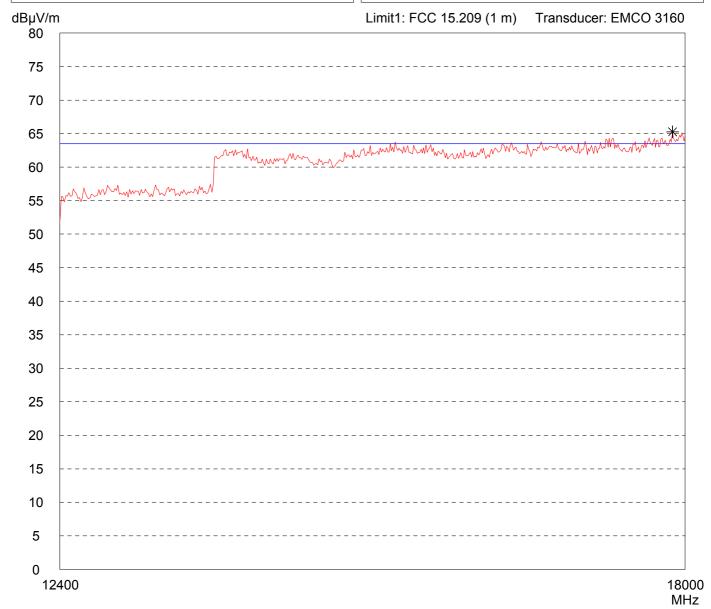
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



Result: Project file: 52305-80802

Model: Wheelchair Remote Contr	ol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabin	n no. 2
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

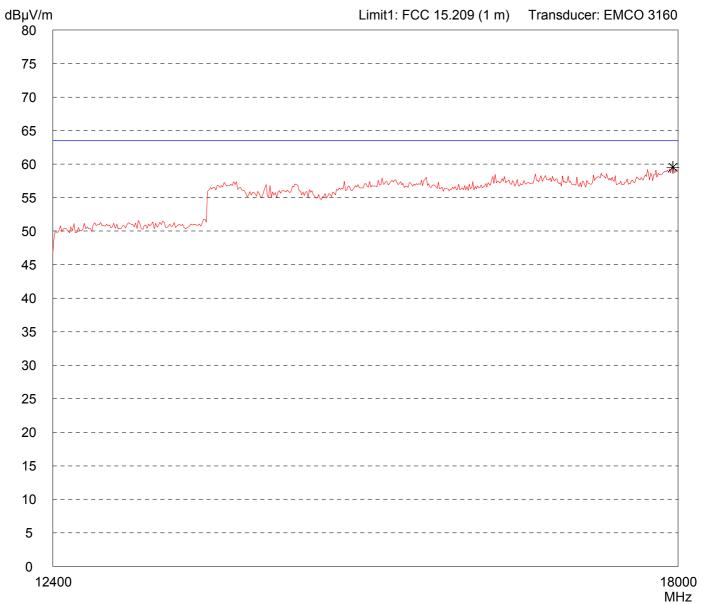
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan - VBW = 100 kHz

Project file:
52305-80802

Model: Wheelchair Remote C	Control	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, of	cabin no. 2	
Tested on:		
Test distance 1 meter Vertical Polarization		
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		

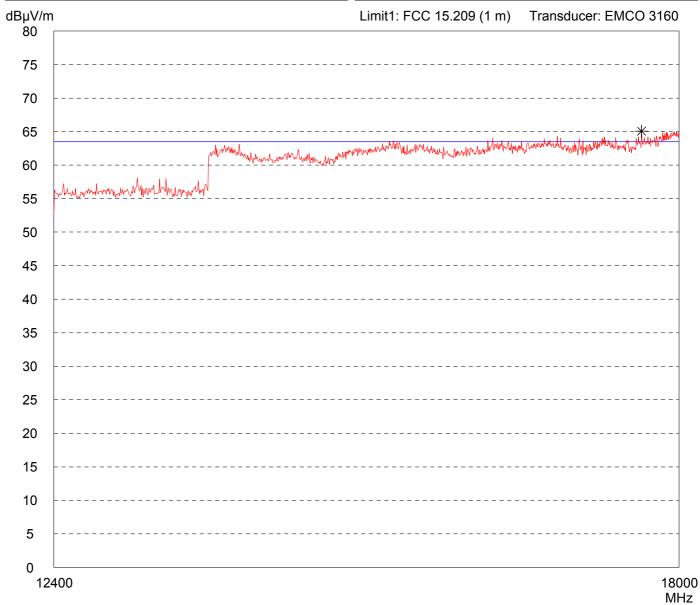
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



Result: Project file: 52305-80802

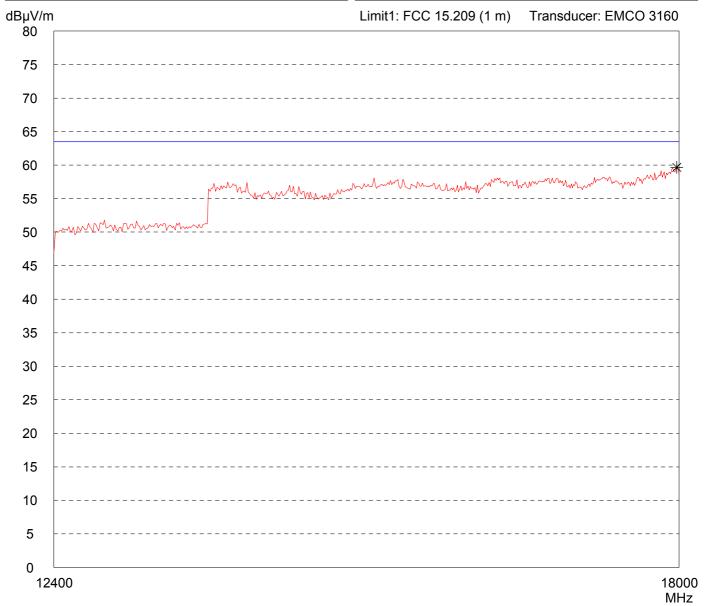
Model:		
Wheelchair Remote Co	ontrol	
Serial no.:		
2930800004		
Applicant:		
Ulrich Alber GmbH		
Test site:		
Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 1 meter		
Vertical Polarization		
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 2: EUT on long side

Detector:
Peak

List of values:
Selected by hand



Result:
Prescan - VBW = 100 kHz

Project file:
52305-80802

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Highest frequency: 2465 MHz - Position 2: EUT on long side - Polarisation: horizontal - Distance: 0.5 m
Ref.Level 74.8 dBµV ATT 5 dB/Div.	0 dB Ref. Offset 42.8 dB
	Marker
Start 18.000 GHz RBW 1 MHz  VBW  Tested by: M. Steindl  Date: 2008-07-04	Stop 25.000 GHz 1 MHz SWP 40 ms Project-No.: 52305-080802

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH		Mode: - Battery supply - Transmitting continously w - Highest frequency: 2465 M - Position 2: EUT on long side - Polarisation: vertical - Distance: 0.5 m		
Ref.Level 74.8 dBµV 5 dB/Div.	ATT	dB	Ref. Of	fset 42.8 dB
	·		1arker 4.867778 GHz 1.14 dBµV	7/1
	·			+
Start 18.000 GHz RBW 1 MHz  V  Tested by: M. Steindl  Date: 2008-07-04	/BW 1	MHz Project-No.: 52305-080802		25.000 GHz SWP 40 ms

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: by hand default.emi

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position

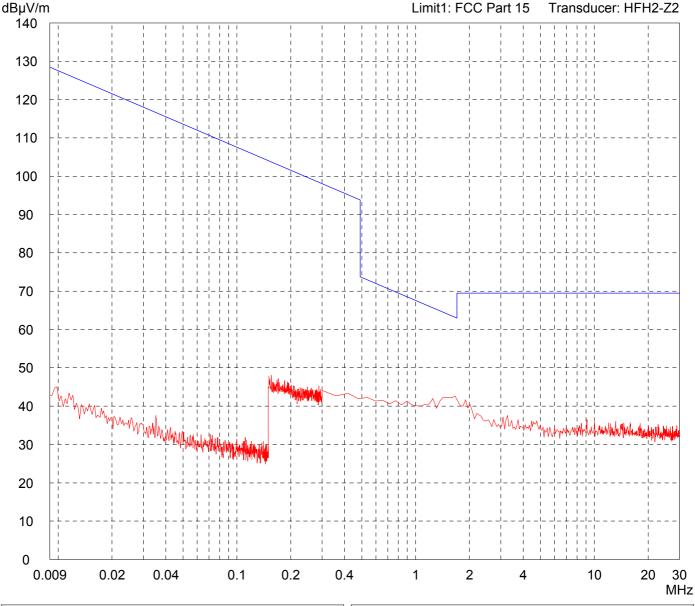
Detector:

Peak

List of values:

10 dB Margin

50 Subranges



 Result:
 Project file:

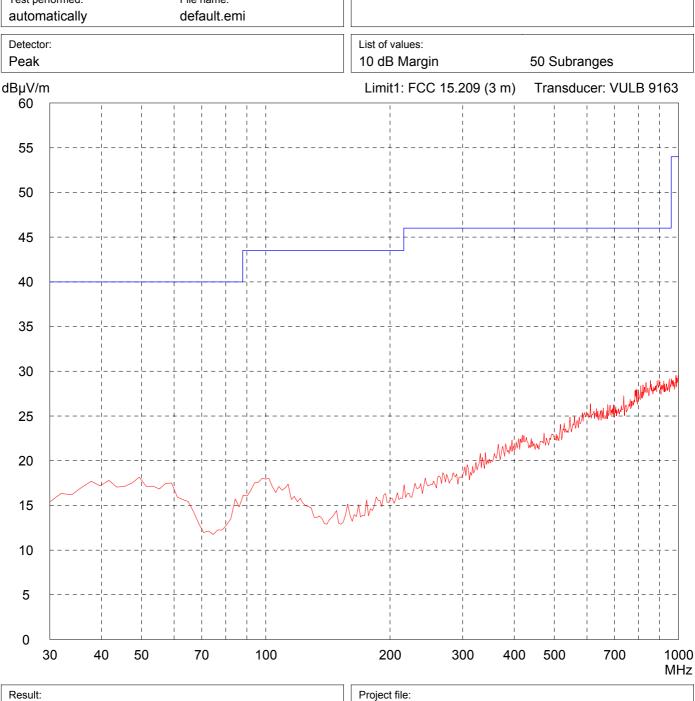
 Prescan
 52305-80802

Model: Wheelchair Remote Control		
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Horizontal Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position



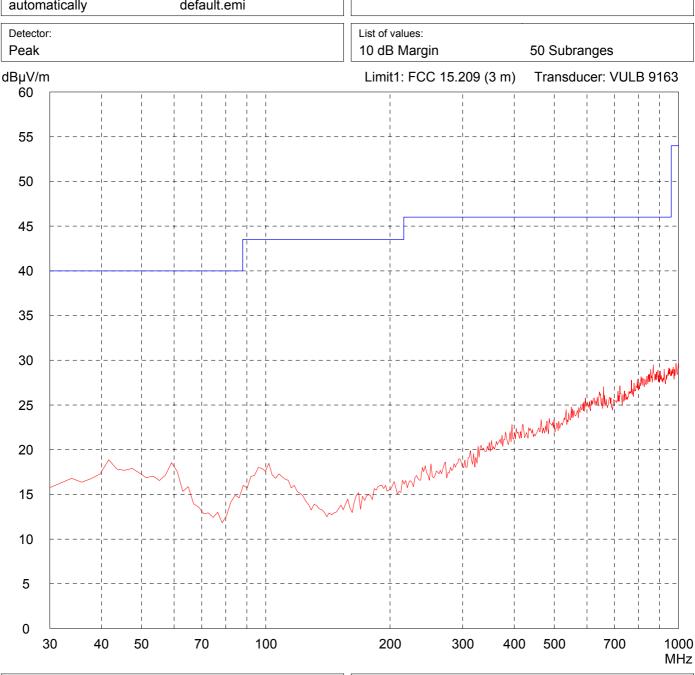
Model:		
Wheelchair Remote Control		
Serial no.:		
2930800004		
Applicant:		
Ulrich Alber GmbH		
Test site:		
Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 3 metres		
Vertical Polarization		
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position



Project file:

•	
Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cab	in no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector	

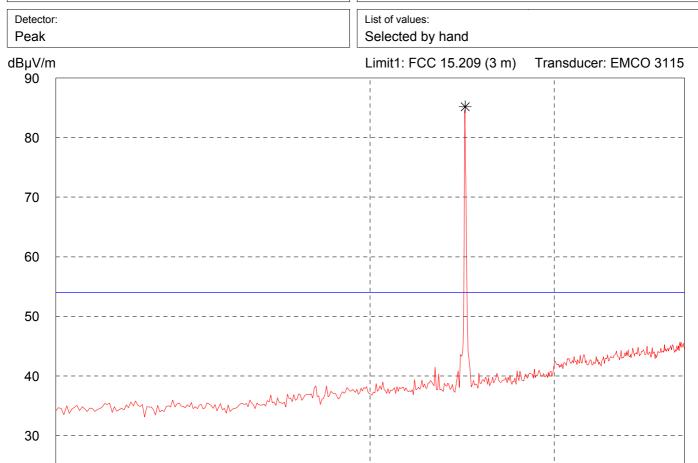
20

10

1000

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2465 MHz
- Position 3: EUT in upright position



| Result: | Project file: | 52305-80802 |

2000

3000

4000

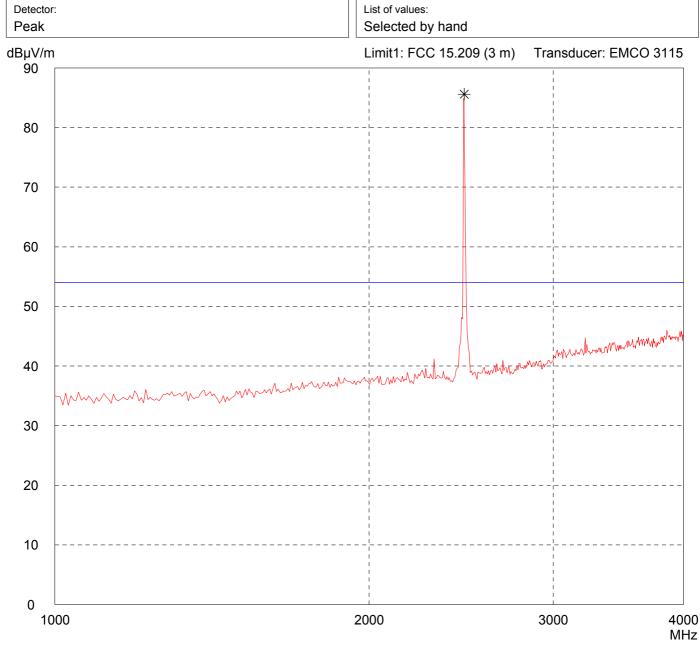
•		
Model: Wheelchair Remote Control		
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
_		

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Middle frequency: 2465 MHz
- Position 3: EUT in upright position



Project file:

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

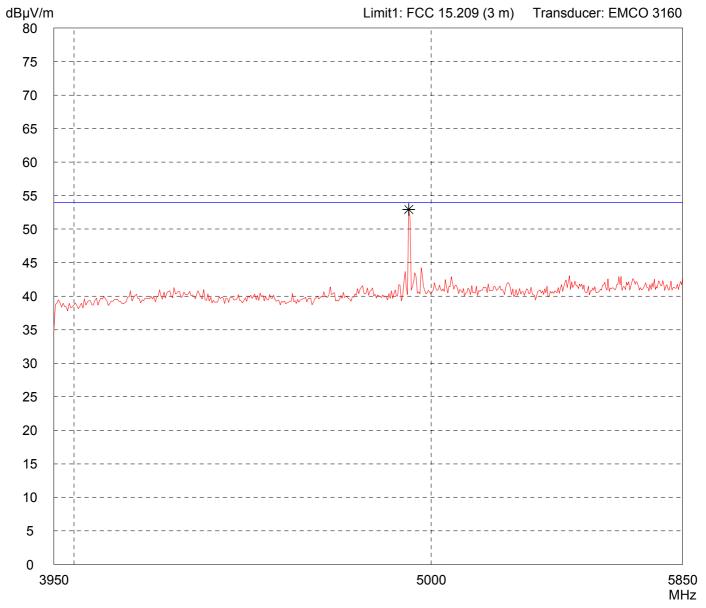
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Operator: Date of test: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Comment:

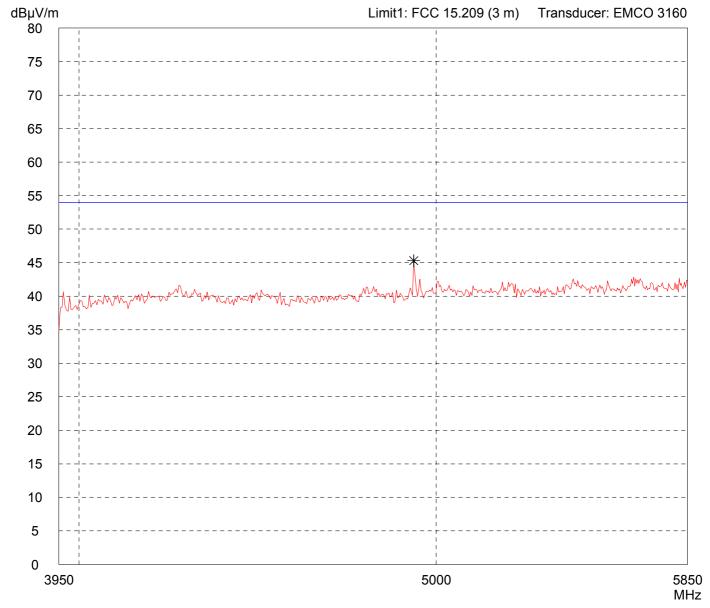
- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



 Result:
 Project file:

 Prescan
 52305-80802

Model: Wheelchair Remote Contr	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

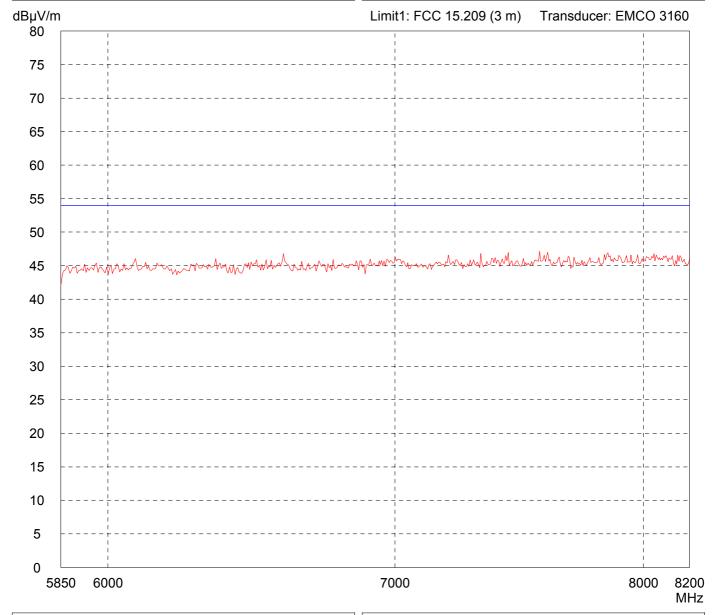
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Result: Project file: 52305-80802

Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	n no. 2
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

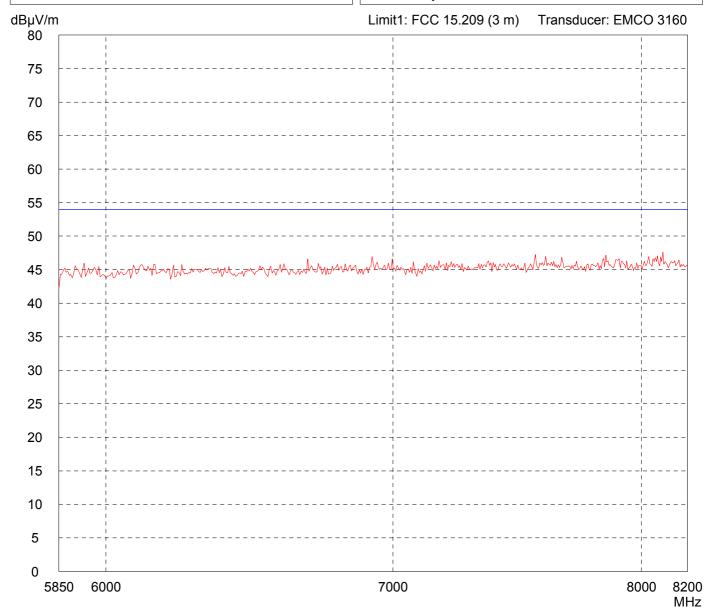
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

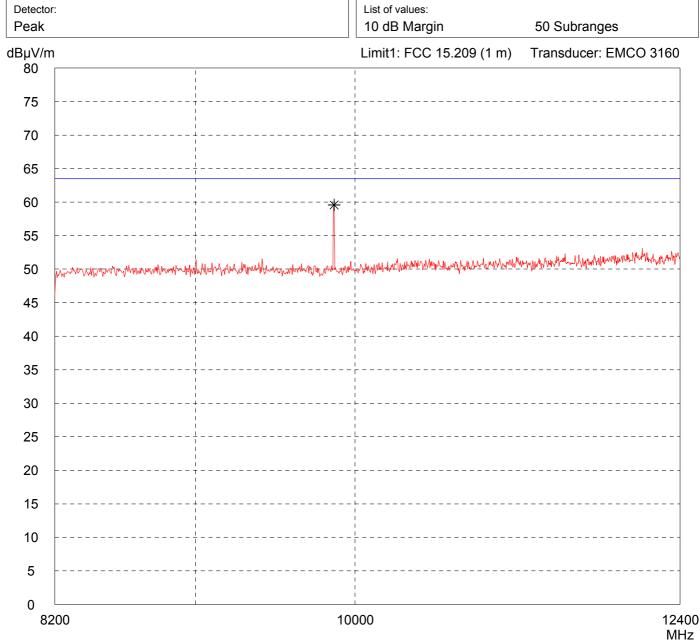
Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cab	in no. 2
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector:	

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position



Project file:

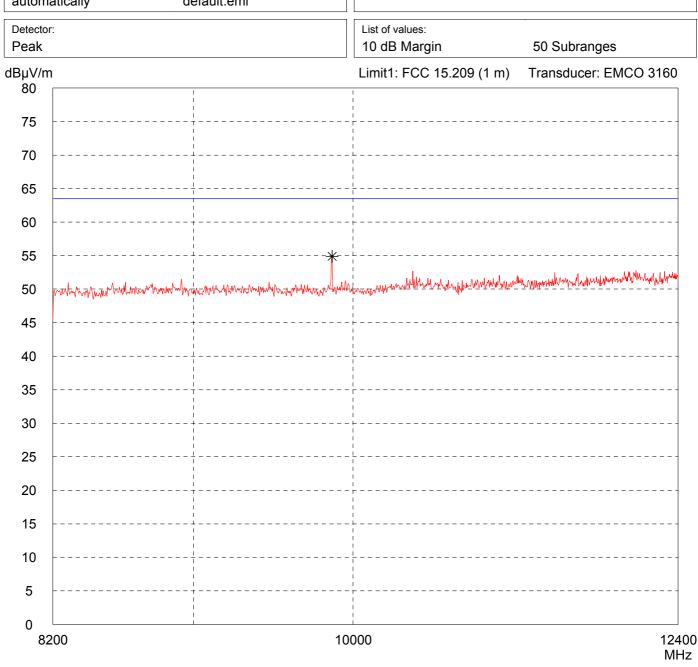
Model: Wheelchair Remote Con	trol	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cab	oin no. 2	
Tested on: Test distance 1 meter Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

Result:

Prescan

Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position



Project file:

Model: Wheelchair Remote (	Control	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room,	cabin no. 2	
Tested on:		
Test distance 1 mete Horizontal Polarization	•	
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		

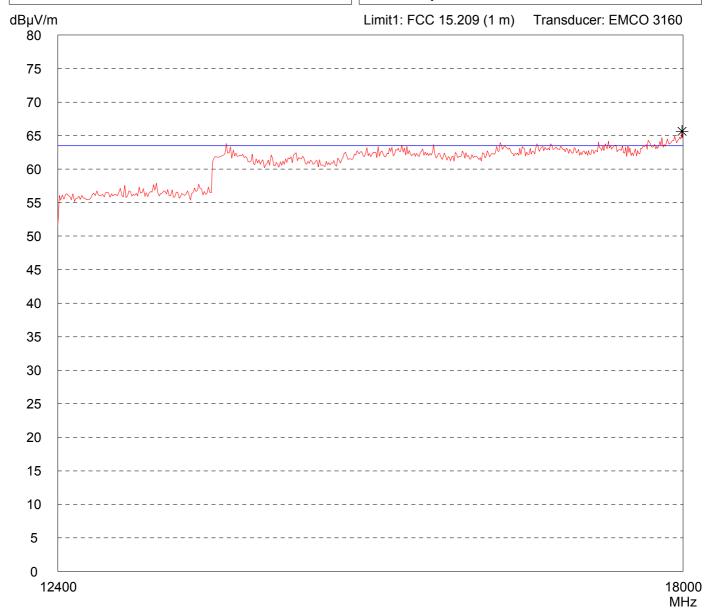
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Result: Project file: 52305-80802

Model: Wheelchair Remote Cont	rol
Serial no.: 2930800004	
Applicant: Ulrich Alber GmbH	
Test site: Fully anechoic room, cabi	in no. 2
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/01/2008	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector	

Comment:

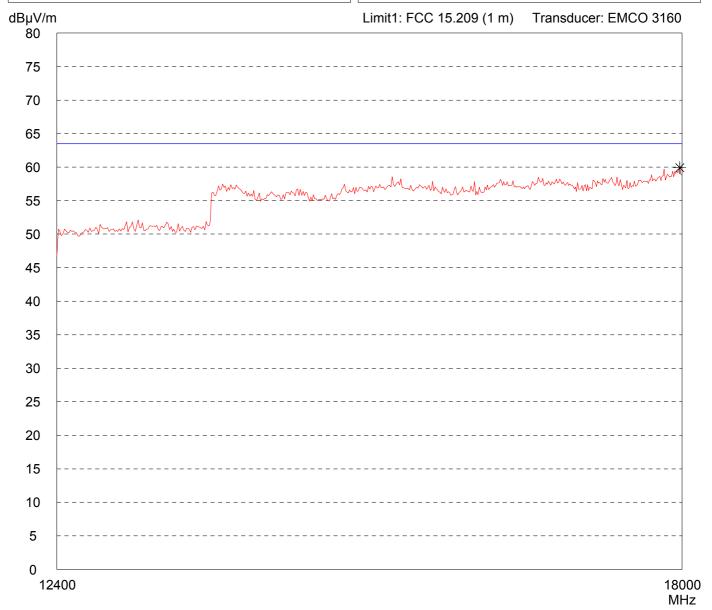
- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:

Selected by hand



Result:
Prescan - VBW = 100 kHz

Project file:
52305-80802

Model: Wheelchair Remote C	control	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 1 meter Vertical Polarization		
Date of test:	Operator:	
07/01/2008	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:		

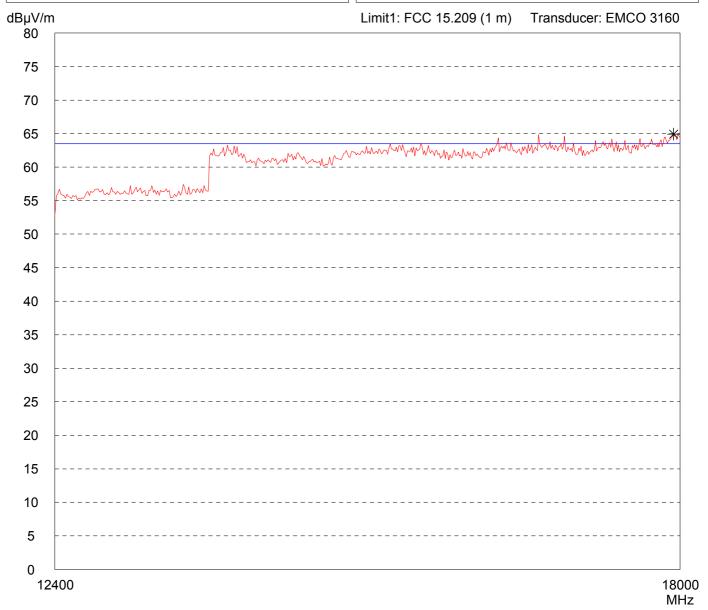
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Vertical Polarization Operator: Date of test: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

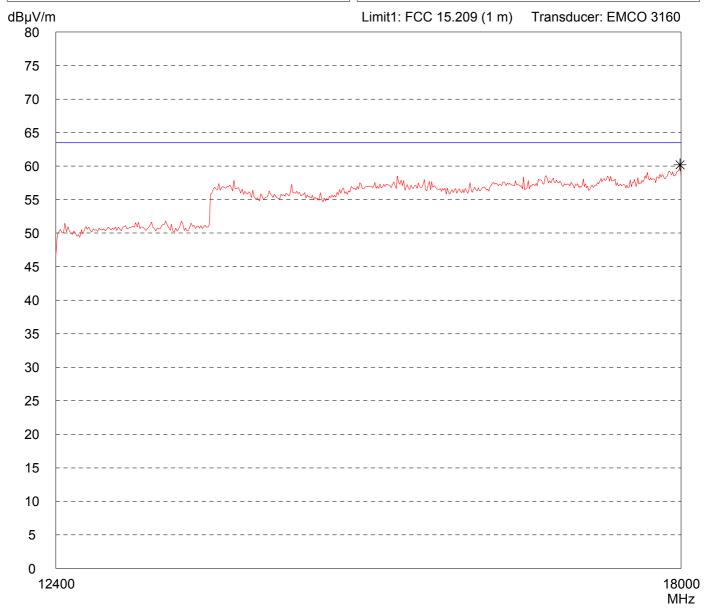
Comment:

- Battery supply
- Transmitting continously with modulation
- Highest frequency: 2465 MHz
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan - VBW = 100 kHz

Project file:
52305-80802

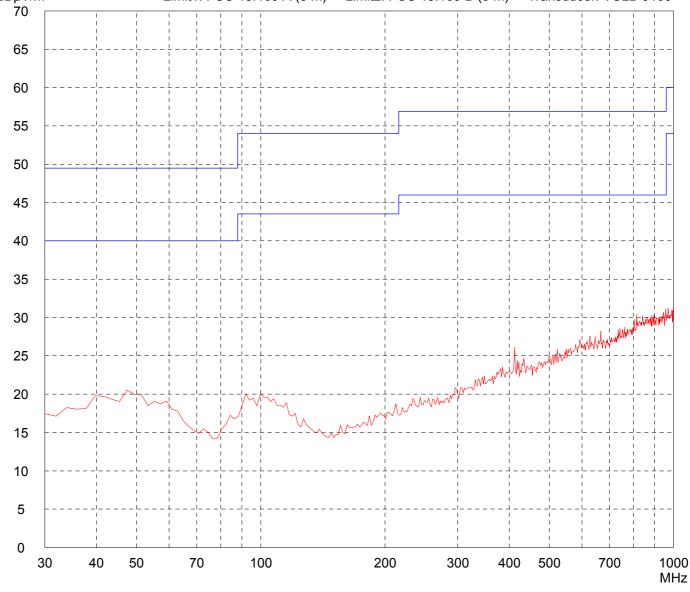
#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Highest frequency: 2465 MHz - Position 3: EUT in upright position - Polarisation: horizontal - Distance: 0.5 m
Ref.Level 74.8 dBµV AT 5 dB/Div.	Γ 0 dB Ref. Offset 42.8 dB
	Marker 24.852222 GHz 60.88 dBµV
Tank and the state of the state	
i i i i i i i i i i i i i i i i i i i	·
Start 18.000 GHz RBW 1 MHz VBW	Stop 25.000 GHz / 1 MHz SWP 40 ms
Tested by: M. Steindl Date: 2008-07-04	Project-No.: 52305-080802

#### Radiated Emission Test acc. to FCC Part 15 Subpart C

Model: Wheelchair Remote Control  Serial No.: 2930800004  Applicant: Ulrich Alber GmbH	Mode: - Battery supply - Transmitting continously with modulation - Highest frequency: 2465 MHz - Position 3: EUT in upright position - Polarisation: vertical - Distance: 0.5 m
Ref.Level 74.8 dBµV ATT 5 dB/Div.	0 dB Ref. Offset 42.8 dB
	Marker 24.836667 GHz 60.39 dBμV
Start 18.000 GHz RBW 1 MHz  VBW  Tested by: M. Steindl  Date: 2008-07-04	Stop 25.000 GHz 1 MHz SWP 40 ms  Project-No.: 52305-080802

acc. to FCC Part	15 Subpart B (FAR)
Model: Wheelchair Remote Control	Comment: - Battery supply
Serial no.: 2930800004	- Standby-Mode
Applicant: Ulrich Alber GmbH	- Position 1: EUT flat on table
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: Operator: 07/01/2008 M. Steindl	
Test performed: File name: automatically default.emi	
Detector: Peak	List of values: 10 dB Margin 50 Subranges
dBμV/m Limit1: FCC 15.109 A (3 m)	Limit2: FCC 15.109 B (3 m) Transducer: VULB 9163
65	



Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi Detector:

Comment:

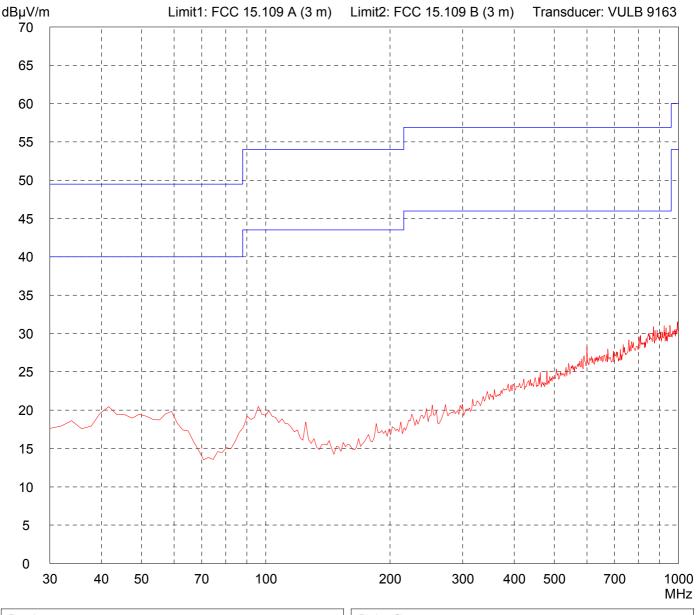
- Battery supply
- Standby-Mode
- Position 1: EUT flat on table

Detector:

Peak

List of values:
10 dB Margin

50 Subranges



Result:
Prescan

Project file: 52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Operator: Date of test: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

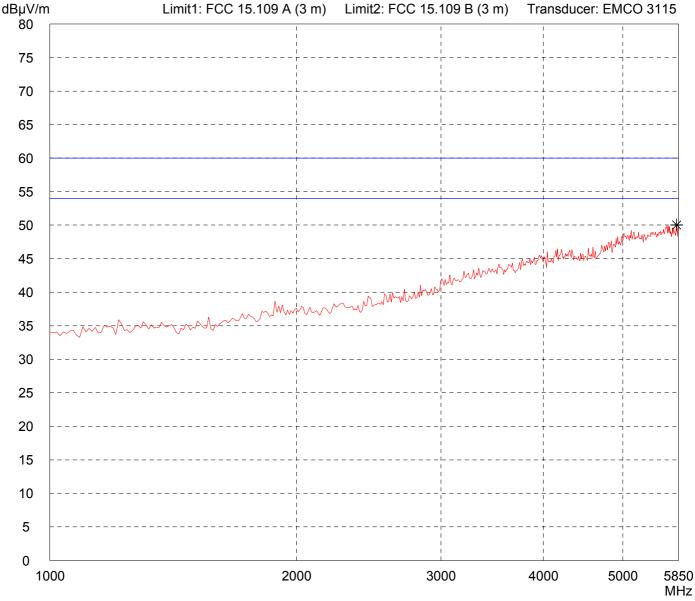
Comment:

- Battery supply
- Standby-Mode
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Operator: Date of test: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

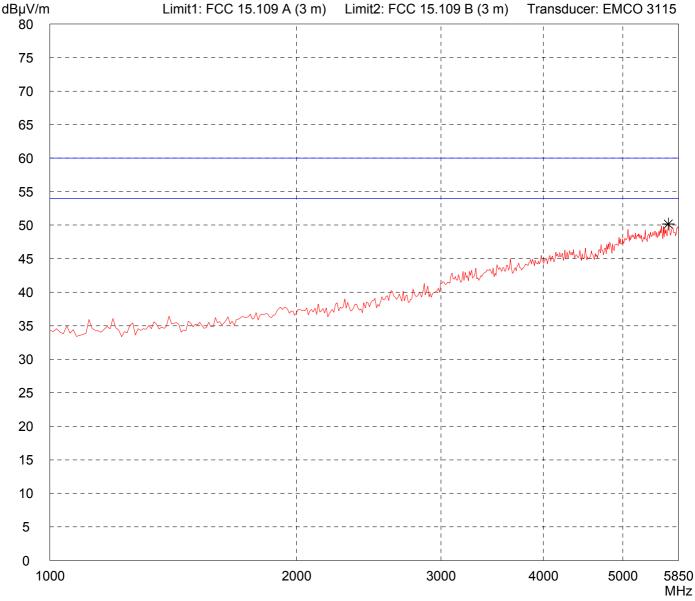
Comment:

- Battery supply
- Standby-Mode
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

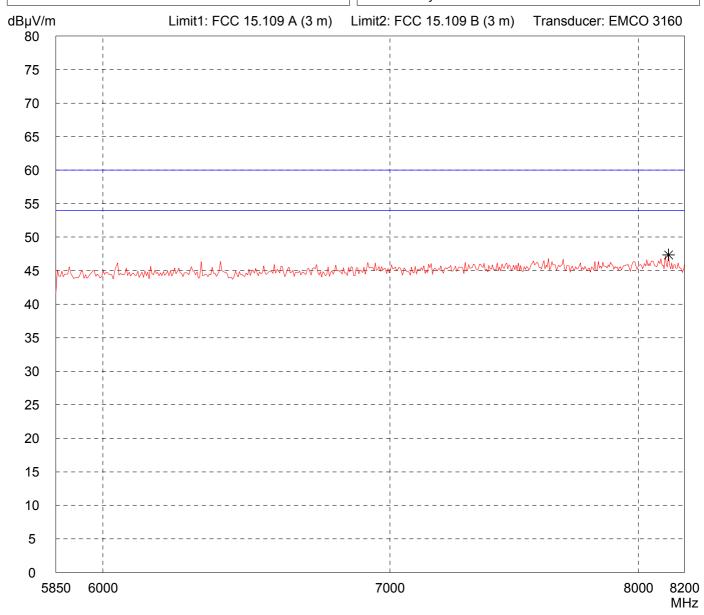
Comment:

- Battery supply
- Standby-Mode
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

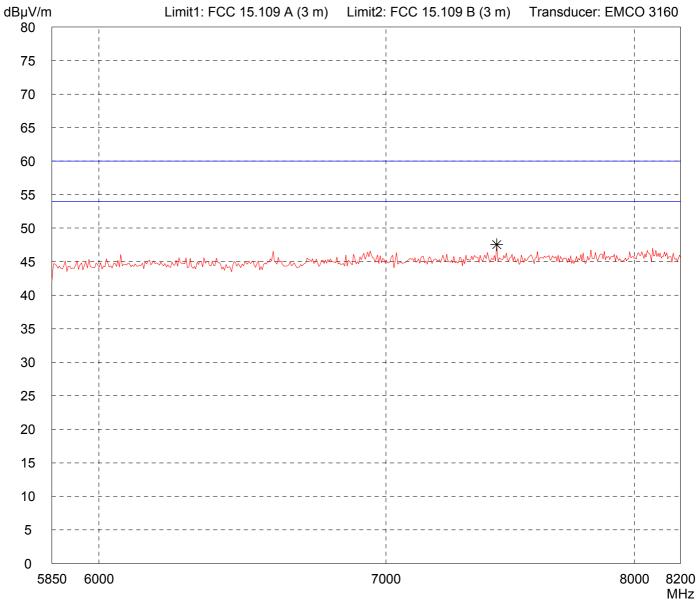
Comment:

- Battery supply
- Standby-Mode
- Position 1: EUT flat on table

Detector:

Peak

List of values:
Selected by hand



Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

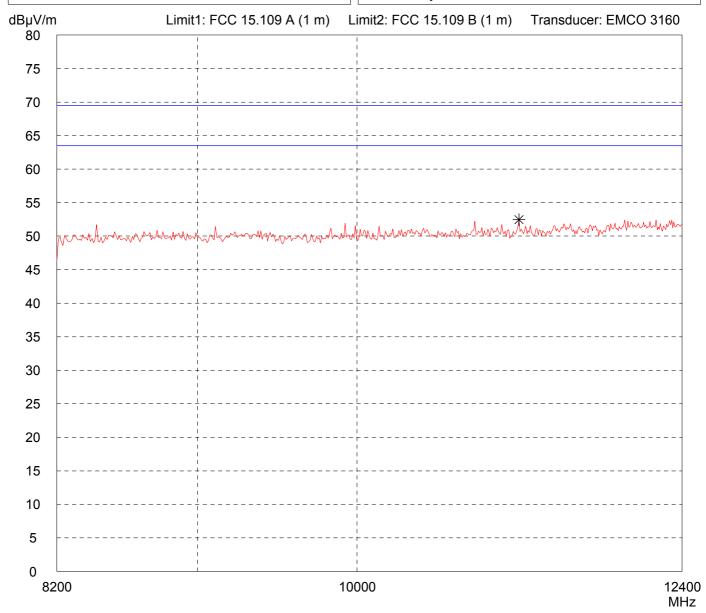
Comment:

- Battery supply
- Standby-Mode
- Position 1: EUT flat on table

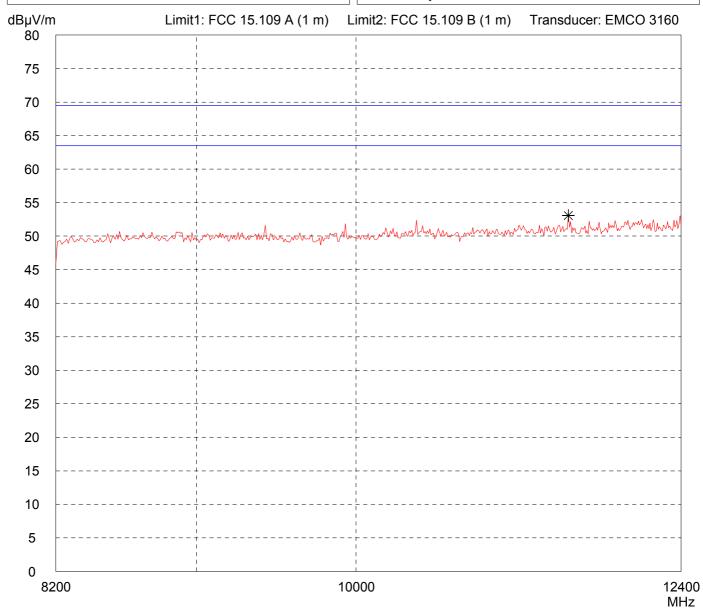
Detector:

Peak

List of values:
Selected by hand



Model: Wheelchair Remote C	Control	Comment: - Battery supply
Serial no.: 2930800004		- Standby-Mode
Applicant: Ulrich Alber GmbH		- Position 1: EUT flat on table
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Vertical Polarization		
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values: Selected by hand



Result:
Prescan

Project file:
52305-80802

Model:	chair Remote Control	Comment:
Serial no		- Battery supply
29308	00004	- Standby-Mode
Applican	nt: Alber GmbH	- Position 1: EUT flat on table
Test site		EOT hat on table
Fully a	nechoic room, cabin no. 2	
Tested of	on: istance 1 meter	
	intal Polarization	
Date of t	·	
07/01/2 Test per		
	atically default.emi	
Detector Peak	r:	List of values: Selected by hand
dBµV/m	Limit1: FCC 15.109 A (1 m)	Limit2: FCC 15.109 B (1 m) Transducer: EMCO 3160
80		
75		
70		
65		
60		
55	and the same of th	m
50		
45		
40		
35		
30		
25		
20		
15		
10		
5		
0		
12	400	1300 MH

Model:	chair Remote Control	Comment:
Serial no		- Battery supply
293080		- Standby-Mode
Applican Ulrich	t: Alber GmbH	- Position 1: EUT flat on table
Test site	: nechoic room, cabin no. 2	
Tested o		
	stance 1 meter Il Polarization	
Date of to 07/01/2	·	
Test perf	formed: File name:	
automa	atically default.emi	
Detector Peak		List of values: Selected by hand
dBμV/m	Limit1: FCC 15.109 A (1 m)	Limit2: FCC 15.109 B (1 m) Transducer: EMCO 3160
80		
75		
70		
65		
60		
55	howwww.mahamahamanh	umaminihamamaman an a
50		
45		
40	 	
35		
30		
25		
20		
15		
10		
5		
0		
124	400	13000 MHz

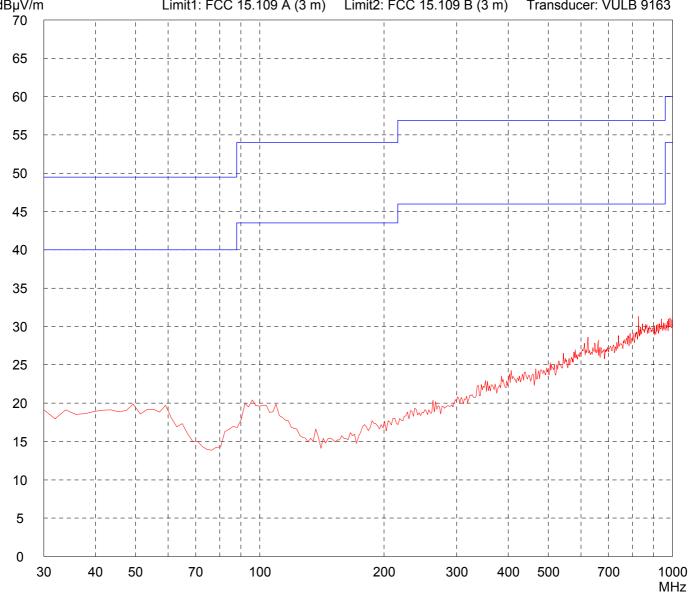
Project file:

52305-80802

Result:

Prescan

acc. to Fo	CC Part 15 Subpart B (FAR)
Model: Wheelchair Remote Control Serial no.: 2930800004	Comment: - Battery supply - Standby-Mode
Applicant: Ulrich Alber GmbH  Test site: Fully anechoic room, cabin no. 2	- Position 2: EUT on long side
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test:  07/01/2008  Test performed:  automatically  Operator:  M. Steindl  File name:  default.emi	
Detector: Peak	List of values: 10 dB Margin 50 Subranges
dBµV/m Limit1: FCC 15.1	09 A (3 m) Limit2: FCC 15.109 B (3 m) Transducer: VULB 916



Result: Prescan

Project file:

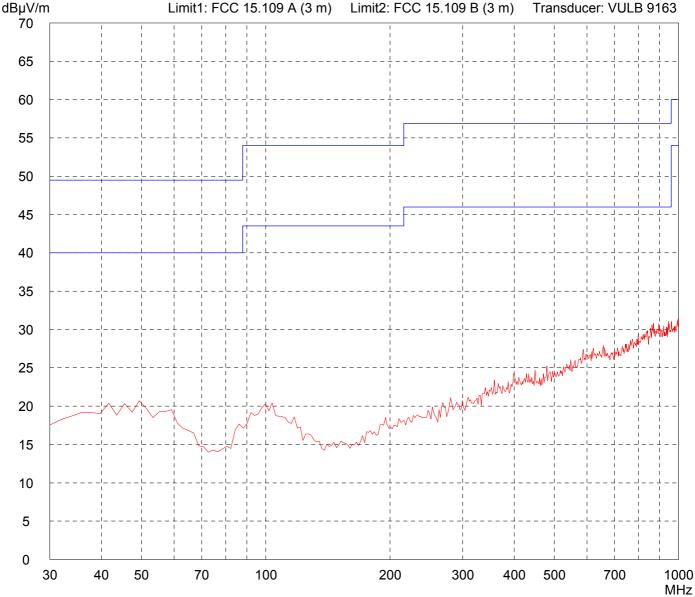
52305-80802

Model: Wheelchair Remote (	Control	
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		
Test site: Fully anechoic room,	cabin no. 2	
Tested on: Test distance 3 metre Vertical Polarization	es	
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		

Comment:

- Battery supply
- Standby-Mode
- Position 2: EUT on long side





Result:
Prescan

Project file: 52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

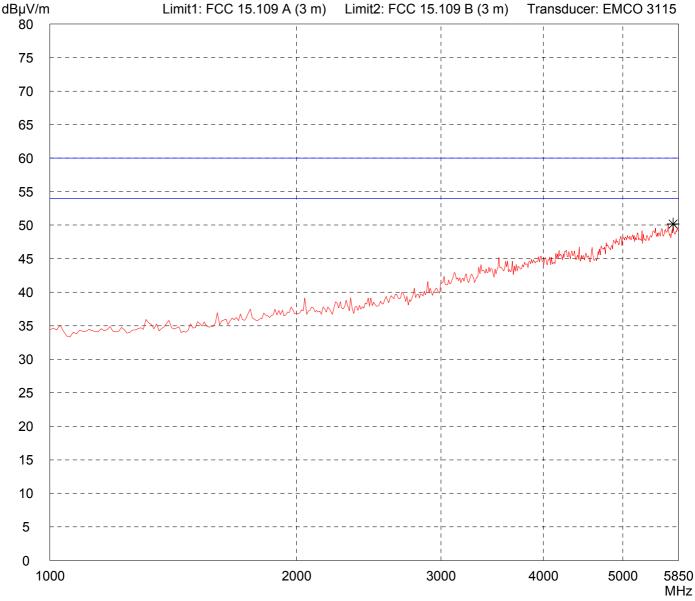
Comment:

- Battery supply
- Standby-Mode
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Operator: Date of test: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

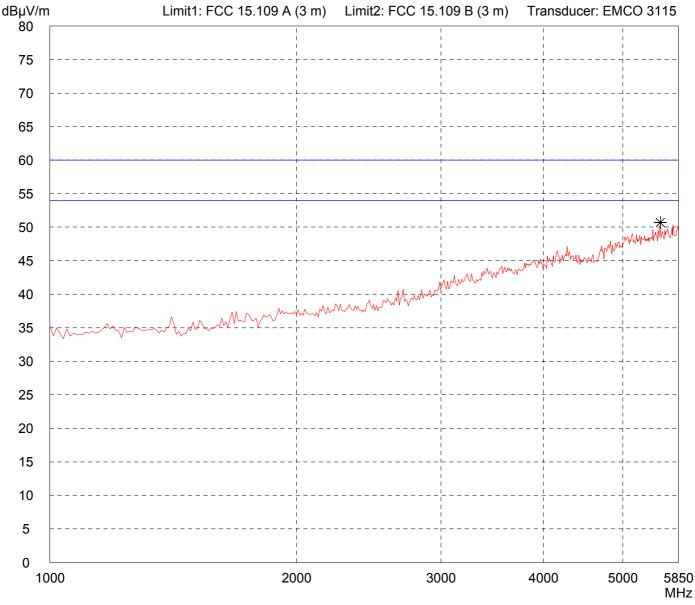
Comment:

- Battery supply
- Standby-Mode
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

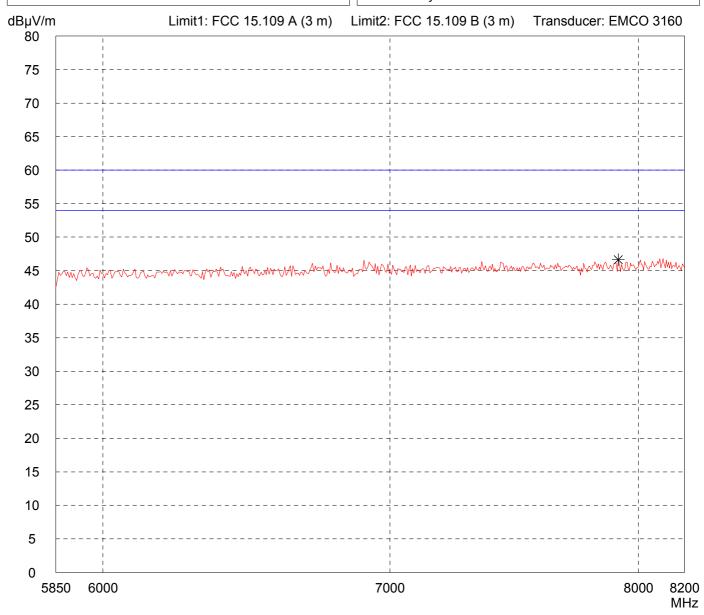
Comment:

- Battery supply
- Standby-Mode
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



 Result:
 Project file:

 Prescan
 52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Operator: Date of test: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

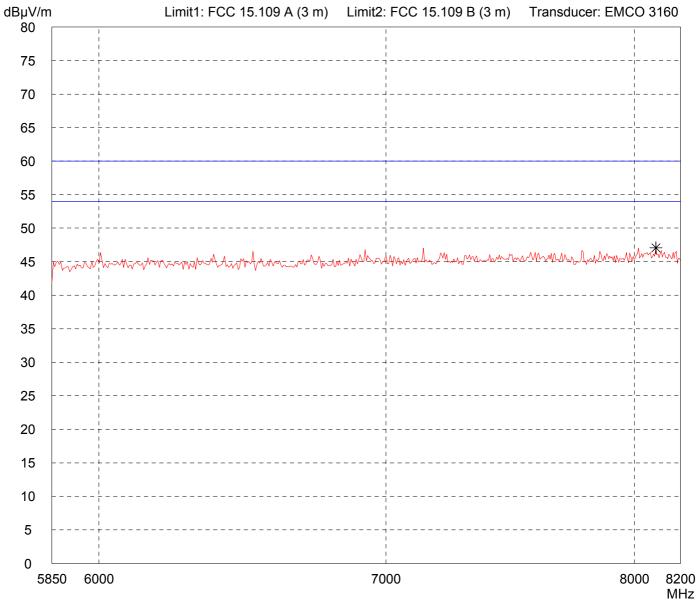
Comment:

- Battery supply
- Standby-Mode
- Position 2: EUT on long side

Detector:

Peak

List of values:
Selected by hand



 Result:
 Project file:

 Prescan
 52305-80802

Model:	
Wheelchair Remote Control	
Serial no.:	
2930800004	
Applicant:	
Ulrich Alber GmbH	
Test site:	
Fully anechoic room, cabin no. 2	
Tested on:	
Test distance 1 meter	
Horizontal Polarization	
Tionzontai i olanzation	
Date of test:	Operator:
07/01/2008	M. Steindl
Test performed:	File name:
automatically	default.emi
Detector:	
20.00.01.	

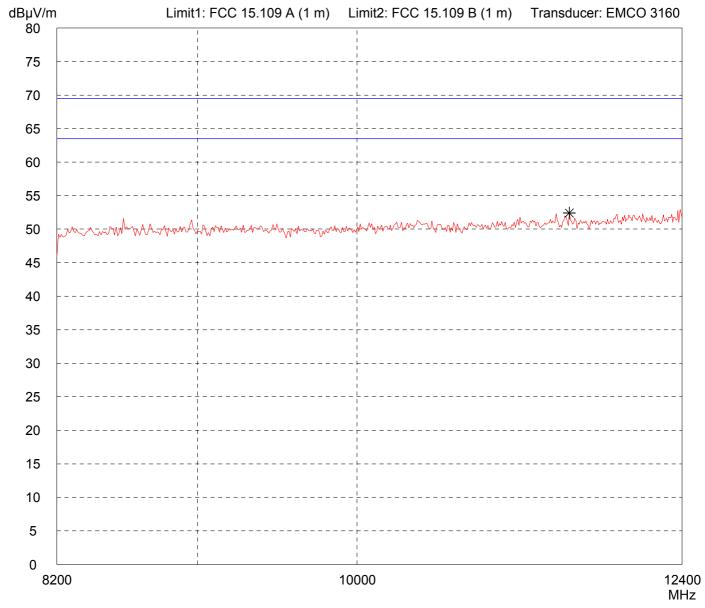
Comment:

- Battery supply
- Standby-Mode
- Position 2: EUT on long side

Detector:

Peak

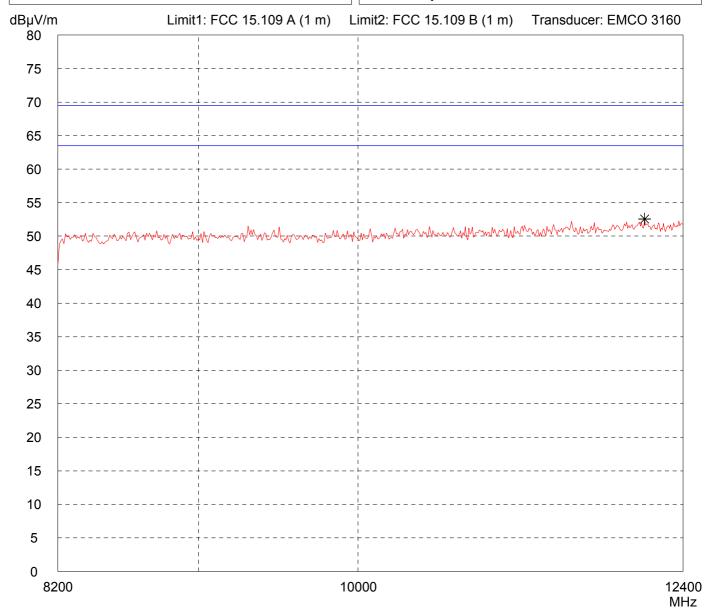
List of values:
Selected by hand



Model: Wheelchair Remote	Control	Comment: - Battery supply
Serial no.: 2930800004		
Applicant: Ulrich Alber GmbH		- Position 2: EUT on long sid
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meterorical Polarization	er	
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values:

le





Project file: Result: Prescan 52305-80802

Model: Wheeld	chair Remote Control	Comment: - Battery supply	
Serial no		- Standby-Mode	
Applicant: Ulrich Alber GmbH		- Position 2: EUT on long side	
Test site			
Tested o	nechoic room, cabin no. 2	_	
Test di	istance 1 meter ntal Polarization		
Date of t	•		
07/01/2 Test per		_	
automa			
Detector Peak	:	List of values: Selected by hand	
dBµV/m	Limit1: FCC 15.109 A (1 m)	Limit2: FCC 15.109 B (1 m) Transducer: EMCO 3160	
80			
75			
70			
65			
60			
55	mpapinang manang mang maganang mang mang mang	M.M. M.	
50			
45			
40			
35			
30			
25			
20			
15			
10			
5			
0			
124	400	13000 MHz	

Project file:

52305-80802

Result:

Prescan

Model: Wheel	chair Remote Control	Comment: - Battery supply	
Serial no		- Standby-Mode	
Applican Ulrich	t: Alber GmbH	- Position 2: EUT on long side	
Test site		, and the second	
	nechoic room, cabin no. 2		
Tested of	on: istance 1 meter		
	al Polarization		
Date of t	•		
07/01/2			
Test per automa			
Detector	•	List of values:	
Peak		Selected by hand	
dBμV/m	Limit1: FCC 15.109 A (1 m)	Limit2: FCC 15.109 B (1 m) Transducer: EMCO 3160	
80			
75			
70			
65			
60			
55	m-whyryng mon on yn glynn ar yn ar yn glynn yn	many mandalana da	
50			
45			
40			
35			
30			
25			
20			
15			
10			
5			
0			
	400	13000 MHz	
Result:		Project file:	

52305-80802

Prescan

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Comment:

- Battery supply
- Standby-Mode
- Position 3: EUT in upright position

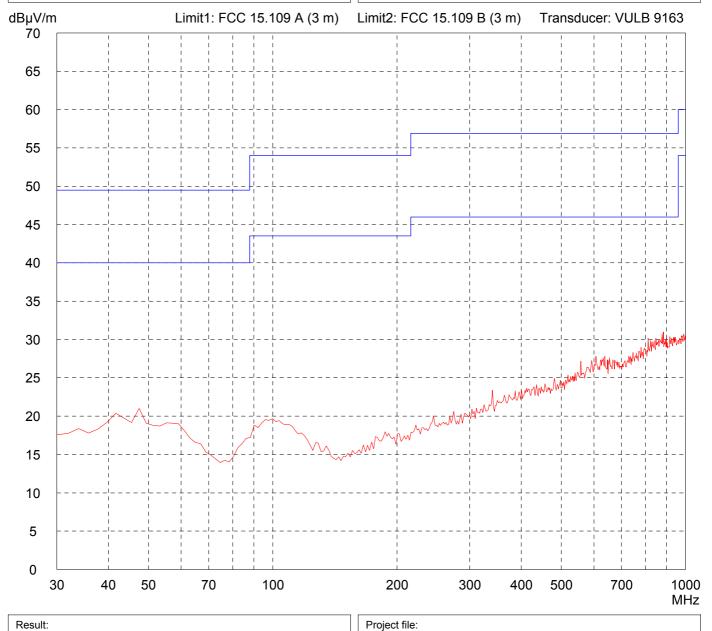
Detector:

Peak

List of values:

10 dB Margin

50 Subranges



Prescan 52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

Comment:

- Battery supply
- Standby-Mode
- Position 3: EUT in upright position

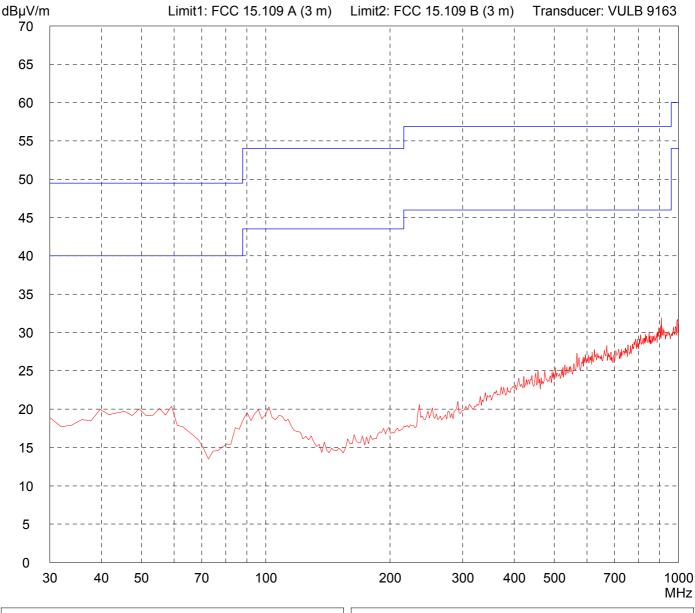
Detector:

Peak

List of values:

10 dB Margin

50 Subranges



Result:
Prescan

Project file: 52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Operator: Date of test: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

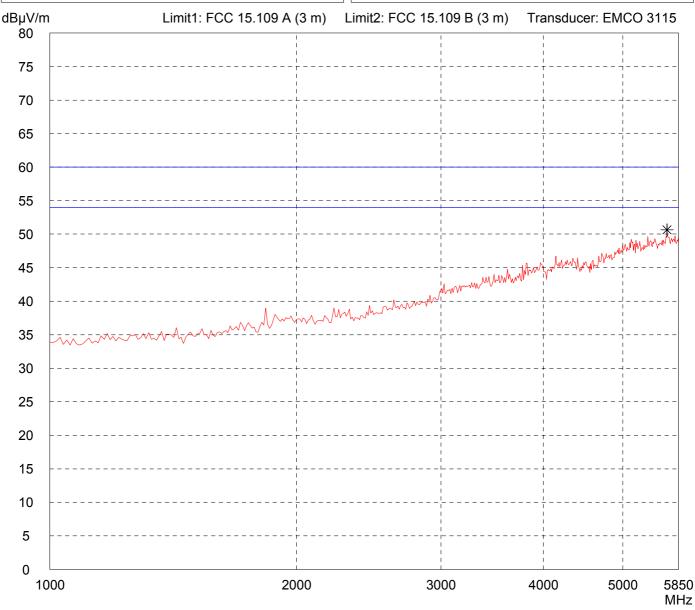
Comment:

- Battery supply
- Standby-Mode
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Operator: Date of test: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

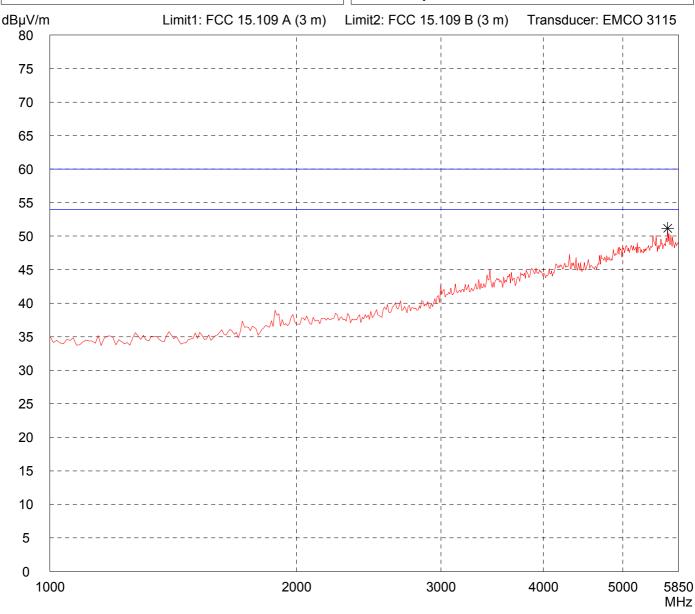
Comment:

- Battery supply
- Standby-Mode
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Result:
Prescan

Project file:
52305-80802

Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Operator: Date of test: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

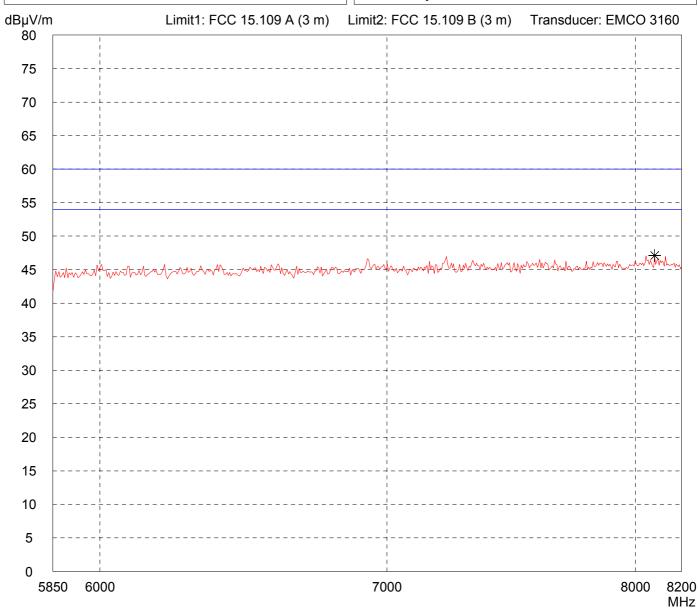
Comment:

- Battery supply
- Standby-Mode
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl Test performed: File name: automatically default.emi

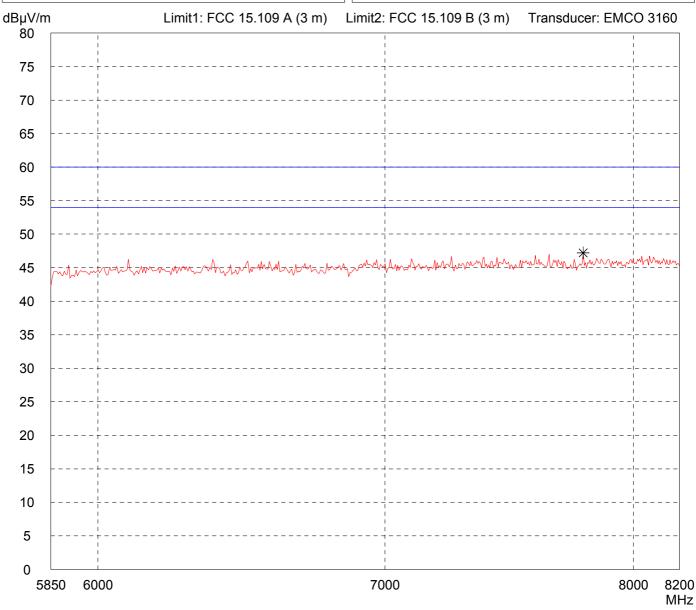
Comment:

- Battery supply
- Standby-Mode
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Horizontal Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

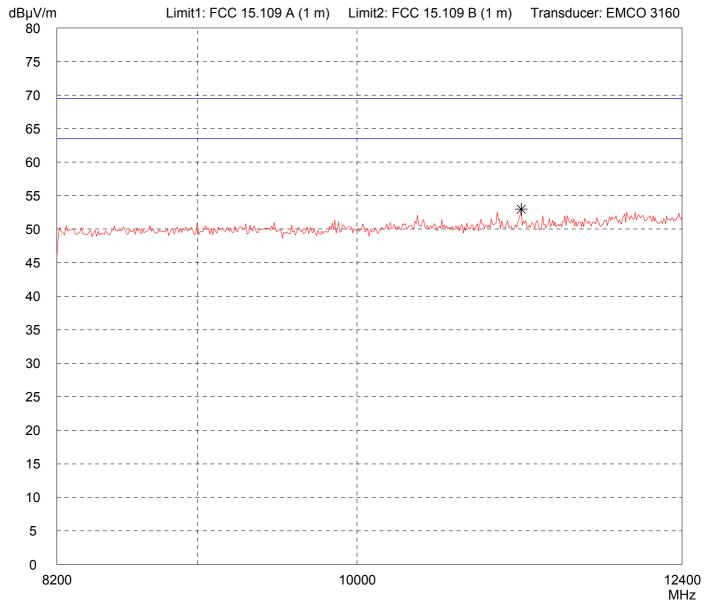
Comment:

- Battery supply
- Standby-Mode
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Model: Wheelchair Remote Control Serial no.: 2930800004 Applicant: Ulrich Alber GmbH Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 1 meter Vertical Polarization Date of test: Operator: 07/01/2008 M. Steindl File name: Test performed: automatically default.emi

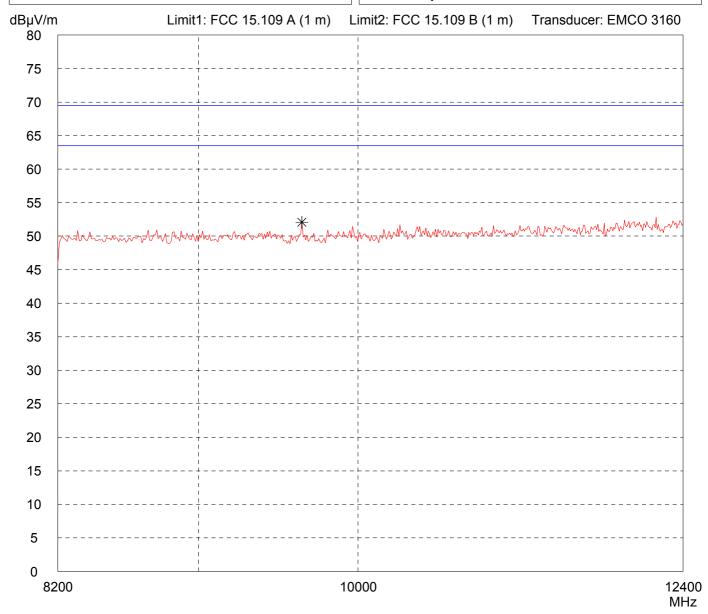
Comment:

- Battery supply
- Standby-Mode
- Position 3: EUT in upright position

Detector:

Peak

List of values:
Selected by hand



Model: Wheel	chair Remote Control	Comment: - Battery supply	
Serial no.: 2930800004  Applicant: Ulrich Alber GmbH  Test site:		- Standby-Mode	
		- Position 3:	
		EUT in upright position	
	nechoic room, cabin no. 2		
Tested on: Test distance 1 meter Horizontal Polarization			
Date of t	•		
Test per	formed: File name:		
Detector	atically default.emi		
Peak	:	List of values: Selected by hand	
dBµV/m	Limit1: FCC 15.109 A (1 m)	Limit2: FCC 15.109 B (1 m) Transducer: EMCO 3160	
80			
75			
70			
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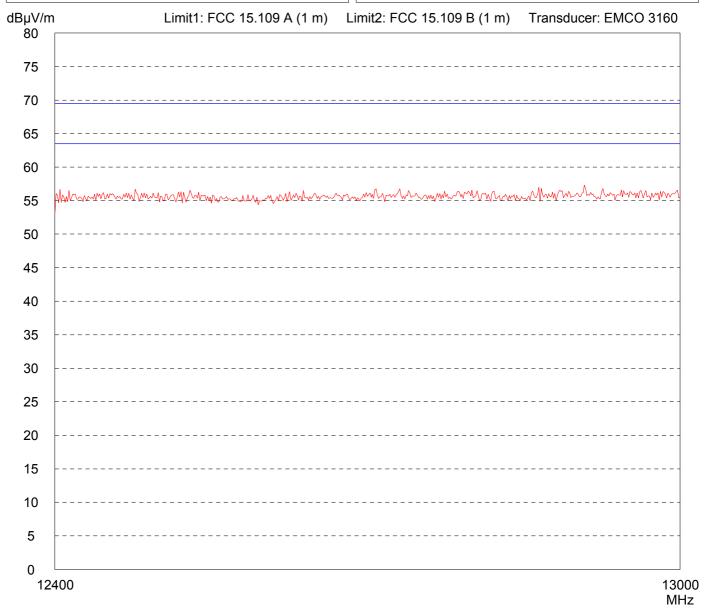
Senton GmbH / Aeussere Fruehlingstrasse 45 / D-94315 Straubing / Germany / Tel. +49 (0)9421 5522-0 / Fax +49 (0)9421 5522-99

Result: Prescan

Project file:

52305-80802

Model: Wheelchair Remote Control		Comment: - Battery supply
Serial no.: 2930800004		- Standby-Mode
Applicant: Ulrich Alber GmbH		- Position 3: EUT in upright position
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 mete Vertical Polarization	:r	
Date of test: 07/01/2008	Operator: M. Steindl	
Test performed: automatically	File name: default.emi	
Detector:		List of values:
Peak		Selected by hand



Result:
Prescan
Project file:
52305-80802