

Straubing, 12 September 2003

TEST - REPORT

No. 55601-30480-1

for

EchoFM

Wireless Audio Transmitter

Applicant: Hearing Products International Limited

Test Specification: FCC Code of Federal Regulations,
CFR 47, Part 15,
Sections 15.209 and 15.249

Note:

The test data of this report relate 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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Administrative Data

Test item (EUT)	
Type designation	EchoFM
Version of EUT:	US
Serial number(s):	Prototype
Type of equipment:	Wireless Audio System
Parts/accessories:	EchoFM Transmitter, EchoFM Receiver
FCC-ID:	RB5
Technical data	
Frequency range:	902-928 MHz
Operational frequencies:	912.0 MHz, 912.6 MHz, 913.2 MHz
Type of modulation:	FM
Pulse frequency:	N/A
Pulse width:	N/A
Class of emission:	50K0F3E
Antenna:	Integrated
Power supply:	12 V DC via external AC Adapter
Applicant: (full address)	
Contract identification:	Verbal
Contact person:	Mr. Chris Rohde
Manufacturer:	Artchief Industries Ltd.
Application details	
Receipt of EUT:	18 July 2003
Date of test:	August 2003
Note:	

Identification of 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. TTI-P-G 062/94-40
FCC Test Site registration number	90926
Industry Canada Test site registration:	IC 3050
Name for contact purposes:	Mr. Johann Roidt
	Phone: (+49) (0)9421 5522-0
	Fax: (+49) (0)9421 5522-99

Summary

Summary of test results

The tested sample complies with the requirements set forth in the
Code of Regulations CFR 47, Part 15, Sections 15.207, 15.209 and 15.245
of the Federal Communication Commission (FCC) and the
Radio Standards Specification RSS-210 Issue 5, Section 7 (Category I Receiver)
of Industry Canada (IC).

Personnel involved in this report

Laboratory Manager:



Mr. Johann Roidt

Responsible for testing:

Mr. Johann Roidt

Responsible for test report:

Mr. Johann Roidt

Operation Mode and Configuration of EUT

Operation Mode

- 1) Transmitter active

Configuration of EUT

List of ports and cables

<i>Port</i>	<i>Description</i>	<i>Classification¹</i>	<i>Cable type</i>	<i>Cable length</i>
1	DC Input	dc power	unshielded	< 3 m
2	Audio Input	signal/control	shielded	< 3 m

List of devices connected to EUT

<i>Item</i>	<i>Description</i>	<i>Type Designation</i>	<i>Serial no. or ID</i>	<i>Manufacturer</i>

¹ Ports shall be classified as ac power, dc power or signal/control port

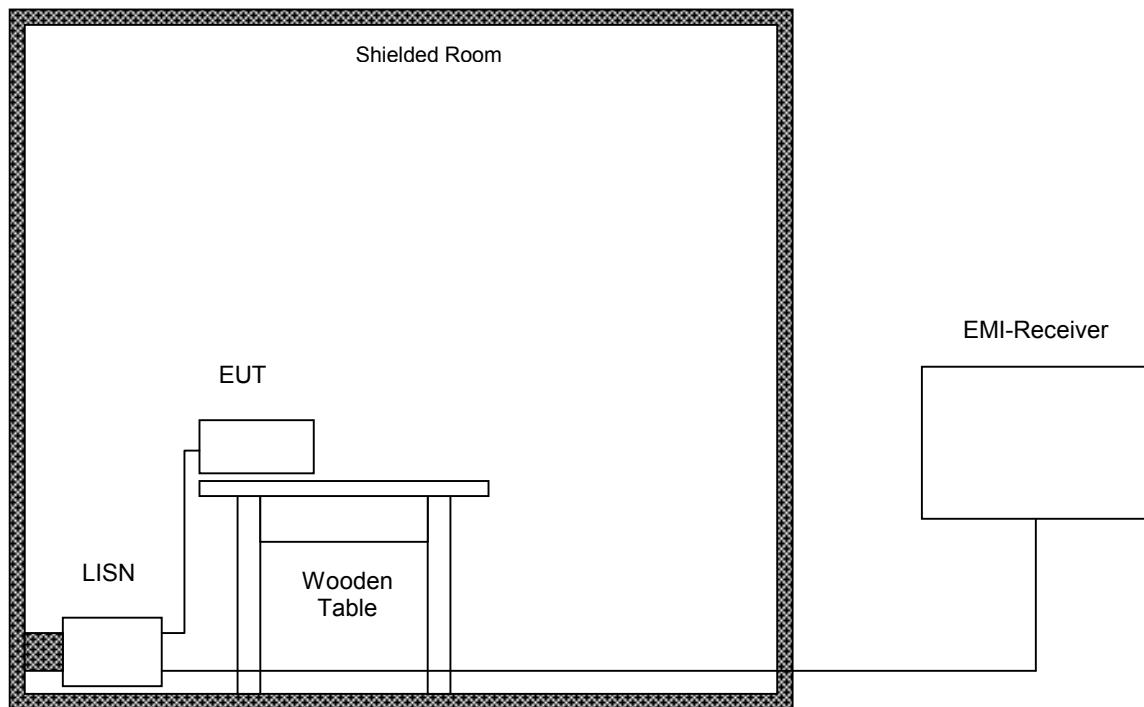
1. Measuring Methods

1.1. Conducted powerline emissions

Rules and Specifications:	Sections 15.107 & 15.207
Guide:	CISPR 22

Measurement Procedure:

In general conducted emission tests in the frequency range 0.15 - 30 MHz are required to be performed with quasi-peak and average detector. To simplify testing the following procedure is used: First the whole spectrum of emission caused by equipment under test (EUT) is recorded with detector set to peak. After that all emission levels having less margin than 20 dB to or exceeding the appropriate limit (in general average limit is 10 dB lower than quasi-peak limit) are retested with detector set to quasi-peak. If average limit is kept no additional scan with average detector is necessary. In cases of emission levels between quasi-peak and average limit an additional scan with detector set to average has to be recorded.



Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	EMI Receiver	ESHS 10	860043/016	Rohde & Schwarz
02	LISN	ESH3-Z5	862770/021	Rohde & Schwarz
03	LISN	ESH-3-Z5	830952/025	Rohde & Schwarz
04	Shielded Room No. 4	---	3FD-100 544	Euroshield

1.2. Field Strength of Emissions, Prescans in a fully-anechoic Room

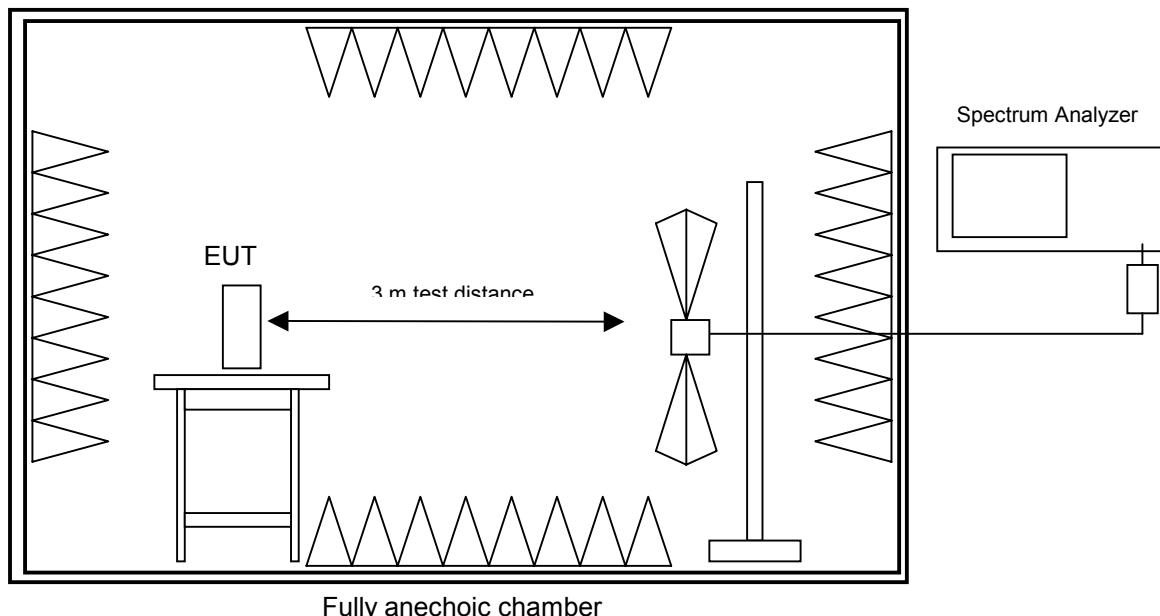
Rules and Specifications:	Sections 15.109, 15.209, 15.245
Guide:	ANSI C63.4 1997

Measurement Procedure:

Radiated emissions are measured over the frequency range from 30 MHz to maximum frequency as specified in 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).

All tests are performed at a test-distance of 3 meters. 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 the tests the EUT is rotated all around to find the maximum levels of emissions. The cables and equipment were placed and moved within the range of position likely to find their maximum emissions.



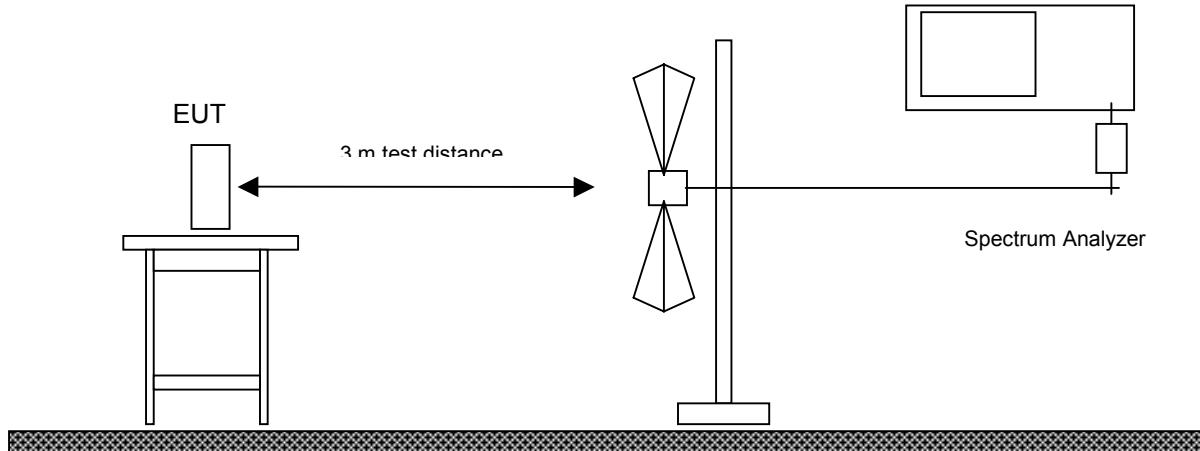
Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
02	Preamplifier	CPA9231A	3393	Schaffner
03	Biconical antenna	HK 116	829708/006	Rohde & Schwarz
04	Log. periodic antenna	3147	9112-1054	EMCO
05	Horn antenna	3115	9508-4553	EMCO
06	Horn antenna	3160-03	9112-1003	Emco
07	Horn antenna	3160-04	9112-1001	Emco
08	Horn antenna	3160-05	9112-1001	Emco
09	Horn antenna	3160-06	9112-1001	Emco
10	Horn antenna	3160-07	9112-1008	Emco
11	Horn antenna	3160-08	9112-1002	Emco
12	Horn antenna	3160-09	9403-1025	Emco
13	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
14	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
15	Fully anechoic room	No. 2	1452	Albatross Projects

1.3. Radiated Emission Measurement at Open Area Test Site

Rules and Specifications:	Sections 15.109, 15.209, 15.245
Guide:	ANSI C63.4 1997

Measurement Procedure:
Radiated emissions are measured in the frequency range 30 MHz to 1 GHz
The measurement bandwidth of the test receiver is set to 120 kHz with detector set to quasi-peak.
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 to find the maximum levels of emission. The cables and equipment are placed and moved within the range of position likely to find their maximum emissions.
In general a test-distance of 3 meters is selected. If a test-distance of 10 meters is used the limits are calculated according to 15.31 (d) and (f)(1).
If required preamplifiers are used for the whole frequency range. Special care is taken to avoid overload in transmit mode (using appropriate attenuators and filters if necessary).



Test instruments used:

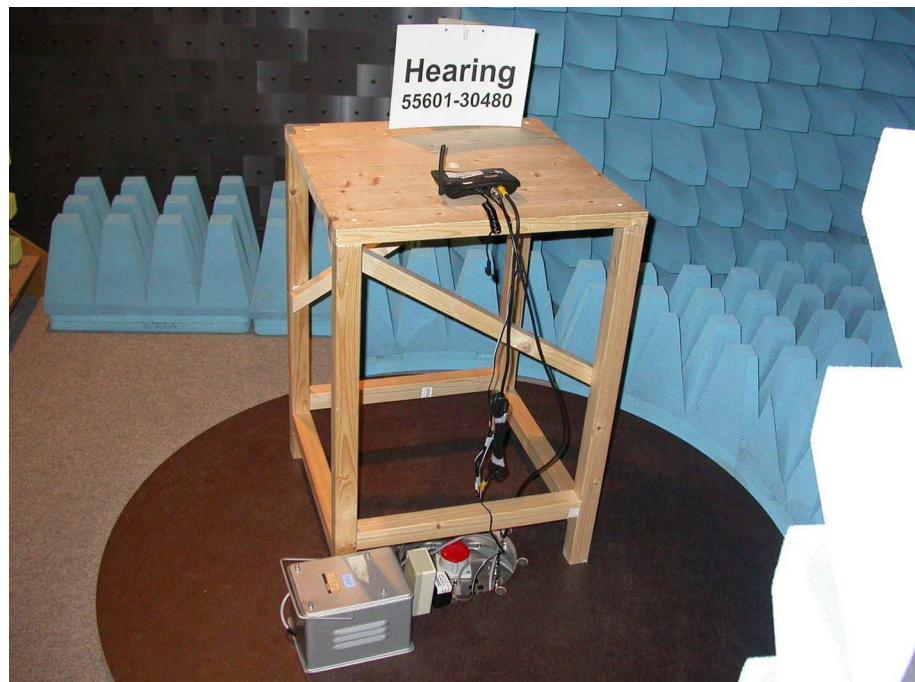
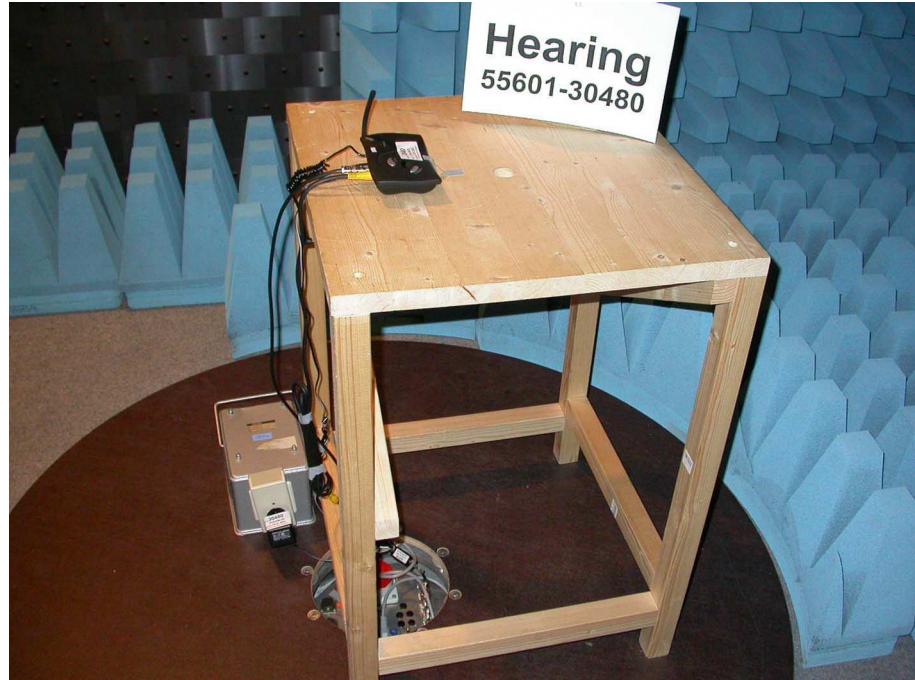
No.	Type	Model	Serial Number	Manufacturer
01	EMI Receiver	ESVP	881414/009	Rohde & Schwarz
141	Biconical antenna	HK 116	829708/006	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
145	Horn antenna	3115	9508-4553	EMCO
146	Horn antenna set	3160-03-09	9112-1003	EMCO
114	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
115	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
003	Open Field Test Site	No. 1	N/A	SENTON

2. Photographs Taken During Testing

Test setup for conducted power line emission measurement



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



3. List of Measurements

FCC Part 15			
Section(s):	Test	Page(s)	Result
15.205	Restricted Bands		Pass
	AC Powerline Emissions	15	Pass
	Field Strength of Emissions (Fundamental & Harmonics)	16	Pass
15.249 (d)	Radiated Spurious Emissions	17	Pass

IC RSS-210 Issue 5			
Section(s):	Test	Page(s)	Result
6.6	Transmitter AC Wireline Conducted Emissions	---	Pass
6.2.2 (m2) (1)	Field Strength of Emissions Fundamental & Harmonics	16	Pass
6.2.2. (m2) (3)	Radiated Spurious Emissions (except Fundamental & Harmonics)	17	Pass

Conducted Powerline Emission Measurement

Rules and Specifications:	15.107, 15.207		
Guide:	CISPR 22		
Limit:	Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
		Quasi-peak	
	0.15-0.5	66 to 56	
	0.5 – 5	56	
	5 - 30	56 to 46	
		46	
		50	

Test Site:	Radio Lab.		
Distance:	Conducted Measurement		
Date of Test:			

Frequency (MHz)	Detector	Analyzer Reading (dB μ V)	Correction Factor (dB)	Final Value (dB μ V)	Limit (dB μ V)	Margin (dB)
0,335	Q.P.	33,1	0	33,1	59,3	26,2
0,405	Q.P.	33,7	0	33,7	57,8	24,1
0,440	Q.P.	32,10	0	32,1	57,1	25,0
0,625	Q.P.	30,8	0	30,8	56,0	25,2

*** = No emissions above noise floor detected

Sample calculation of Final values:

$$\text{Final Value (dB}\mu\text{V)} = \text{Analyzer Reading (dB}\mu\text{V)} + \text{Correction Factor (dB)}$$

Test Results:	Pass	
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FCC-ID:

Test Report No. 55601-30480-1

Field Strength of Emissions

Rules and Specifications:	15.209, 15.249 (a) Radiated Emission Limits		
Guide:	ANSI C63.4		
Limit:	The field strength of emissions from intentional radiators operated in these frequency band shall comply with the following:		
	Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
902-928 MHz	50	500	
2400-2483.5 MHz	50	500	
5725-5875 MHz	50	500	
24-24.25 GHz	250	2500	

Tested Frequency:	
Test Site:	Open Area Test Site (< 1 GHz), Fully anechoic chamber (> 1 GHz)
Distance:	3 Meter

Frequency (MHz)	Detector	Antenna Polarization	Analyzer Reading (dB μ V)	Correction Factor (dB/m)	Field Strength (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
912,000	Average	Ver	65,2	25,23	90,43	94,00	3,6
912,600	Average	Ver	65,6	25,25	90,85	94,00	3,2
913,200	Average	Ver	64,8	25,3	90,1	94,00	3,9
1822,000	Average	Ver	3,4	30,11	33,51	54,00	20,5
2740,000	Average	Ver	15,43	33,21	48,64	54,00	5,4
3648,000	Average	Ver	6,13	36,37	42,5	54,0	11,5
4560,000	Average	Ver	5,35	37,79	43,14	54,0	10,9
5478,000	Average	Ver	3,52	40,12	43,64	54,0	10,4

*** = All emissions showed more than 20 dB margin to the limit

Sample calculation of erp values:

$$\text{Field Strength (dB}\mu\text{V/m)} = \text{Analyzer Reading (dB}\mu\text{V)} + \text{Correction Factor (dB/m)}$$

Test Results:	Pass	
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Spurious Radiation Measurement

Rules and Specifications:	15.209, 15.249 (d) Radiated Emission Limits
Guide:	ANSI C63.4
Limit:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated at least 50 dB below the level of the fundamental or to the general radiated emission limits below, whichever is the lesser attenuation
Frequency of Emission (MHz)	Field Strength (microvolts/meter)
30 - 88	100
88 - 216	150
216 - 960	200
Above 960	500

Tested Frequency:	
Test Site:	Open Area Test Site (< 1 GHz), Fully anechoic chamber (> 1 GHz)
Distance:	3 Meter

*** = All emissions showed more than 20 dB margin to the limit

Sample calculation of erp values:

Field Strength (dBuV/m) = Analyzer Reading (dBuV) + Correction Factor (dB/m)

Test Results:	Pass	
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FCC-ID:

Test Report No. 55601-30480-1

4. Referenced Regulations

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

<input checked="" type="checkbox"/> CFR 47 Part 2	Code of Federal Regulations Part 2 (Frequency Allocations And Radio Treaty Matters, General Rules And Regulations) of the Federal Communication Commission (FCC)	October 1, 2001
<input type="checkbox"/> CFR 47 Part 15 Subpart A	Code of Federal Regulations Part 15 (Radio Frequency Devices), Subpart A (General) of the Federal Communication Commission (FCC)	March 13, 2003
<input type="checkbox"/> CFR 47 Part 15 Subpart B	Code of Federal Regulations Part 15 (Radio Frequency Devices), Subpart B (Unintentional Radiators) of the Federal Communication Commission (FCC)	March 13, 2003
<input checked="" type="checkbox"/> CFR 47 Part 15 Subpart C	Code of Federal Regulations Part 15 (Radio Frequency Devices), Subpart C (Intentional Radiators) of the Federal Communication Commission (FCC)	March 13, 2003
<input checked="" type="checkbox"/> 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 - 40 GHz	October, 1992
<input checked="" type="checkbox"/> RSS-210	Radio Standards Specification RSS-210 Issue 5 for Low Power Licence-Exempt Radiocommunication Devices of Industry Canada	November 2001
<input type="checkbox"/> TIA/EIA-603	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	February 1993
<input type="checkbox"/> TIA/EIA-603-1	Addendum to TIA/EIA-603	March 4, 1998

Charts taken during testing

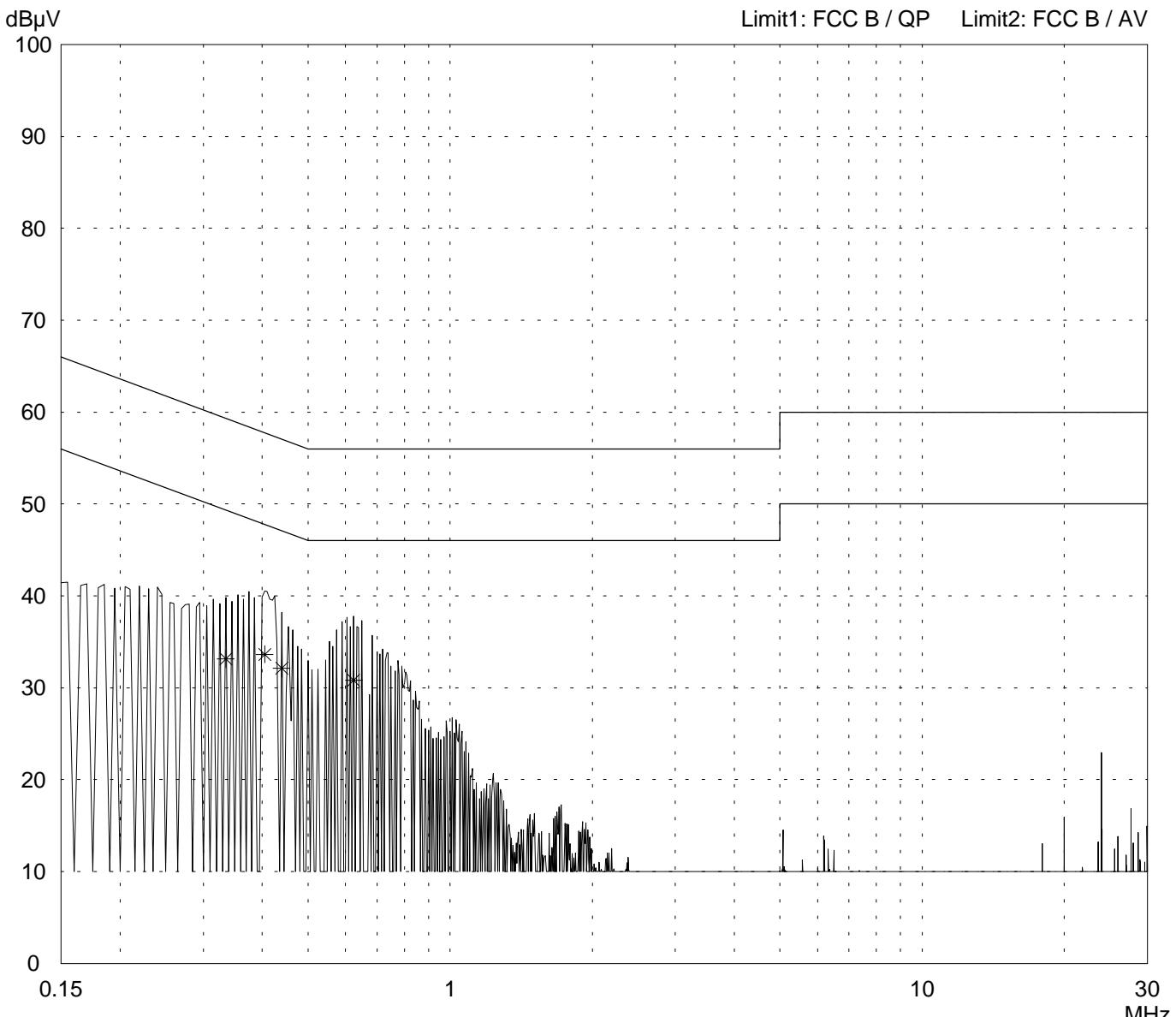
Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

Model: EchoFM	
Serial no.: US Version	
Applicant: Hearing Products International Limited	
Test site: Shielded room, cabin no. 2	
Tested on: Linecord	
Date of test: 01 September 2003	Operator: J. Roidt
Test performed: automatically	File name:

Mode: 100 mV@1kHz at Audio Input

Detector: Peak / Final Results: QP

Final results: 20 dB Margin	25 Subranges
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Result: Limit kept

Project file: 55601-30480-1	Page	of	Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

Model:
EchoFM

Serial no.:
US Version

Applicant:
Hearing Products International Limited

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord
Phase N

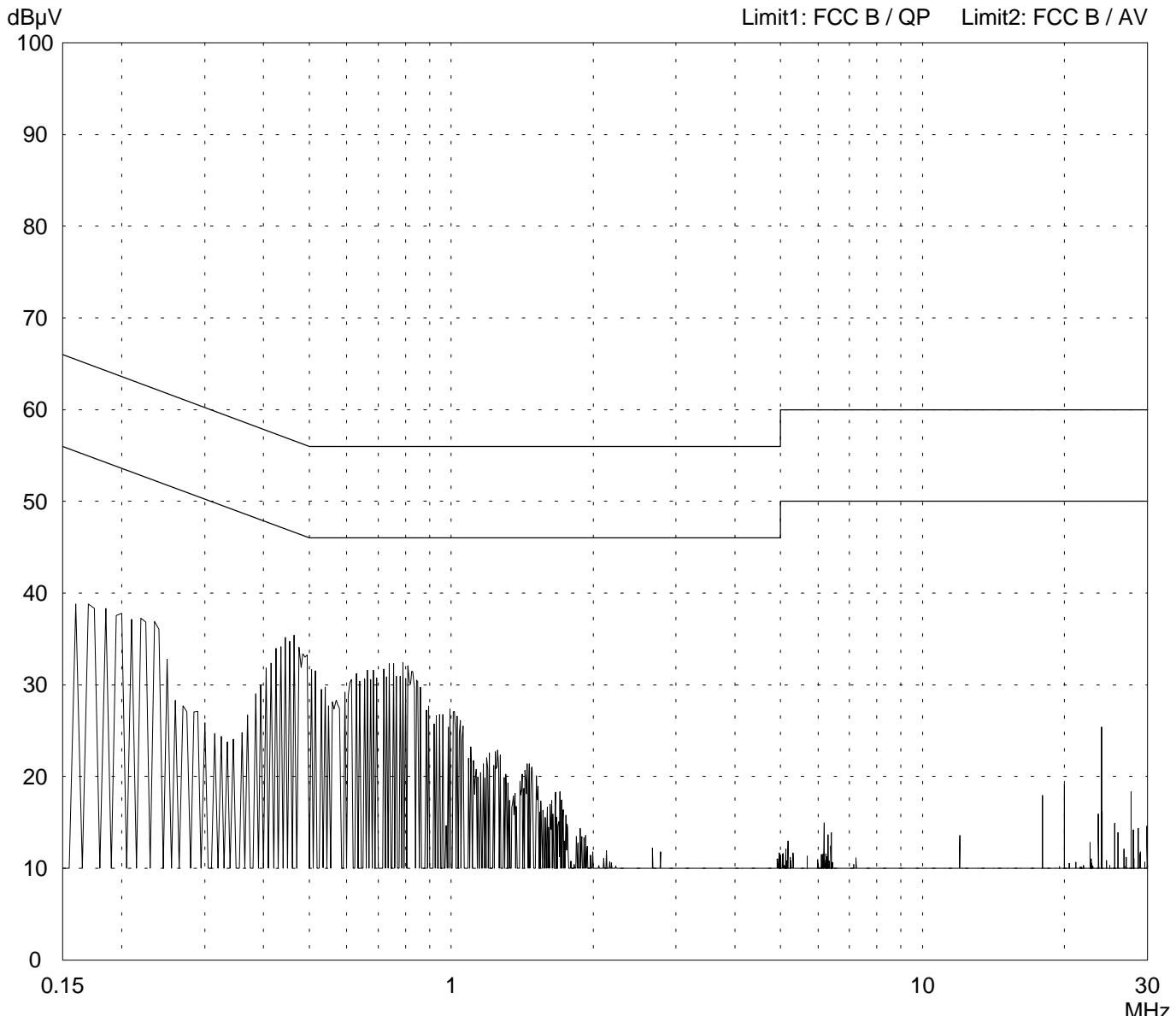
Date of test: 01 September 2003 Operator: J. Roidt

Test performed: automatically File name:

Mode:
100 mV@1kHz at Audio Input

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges



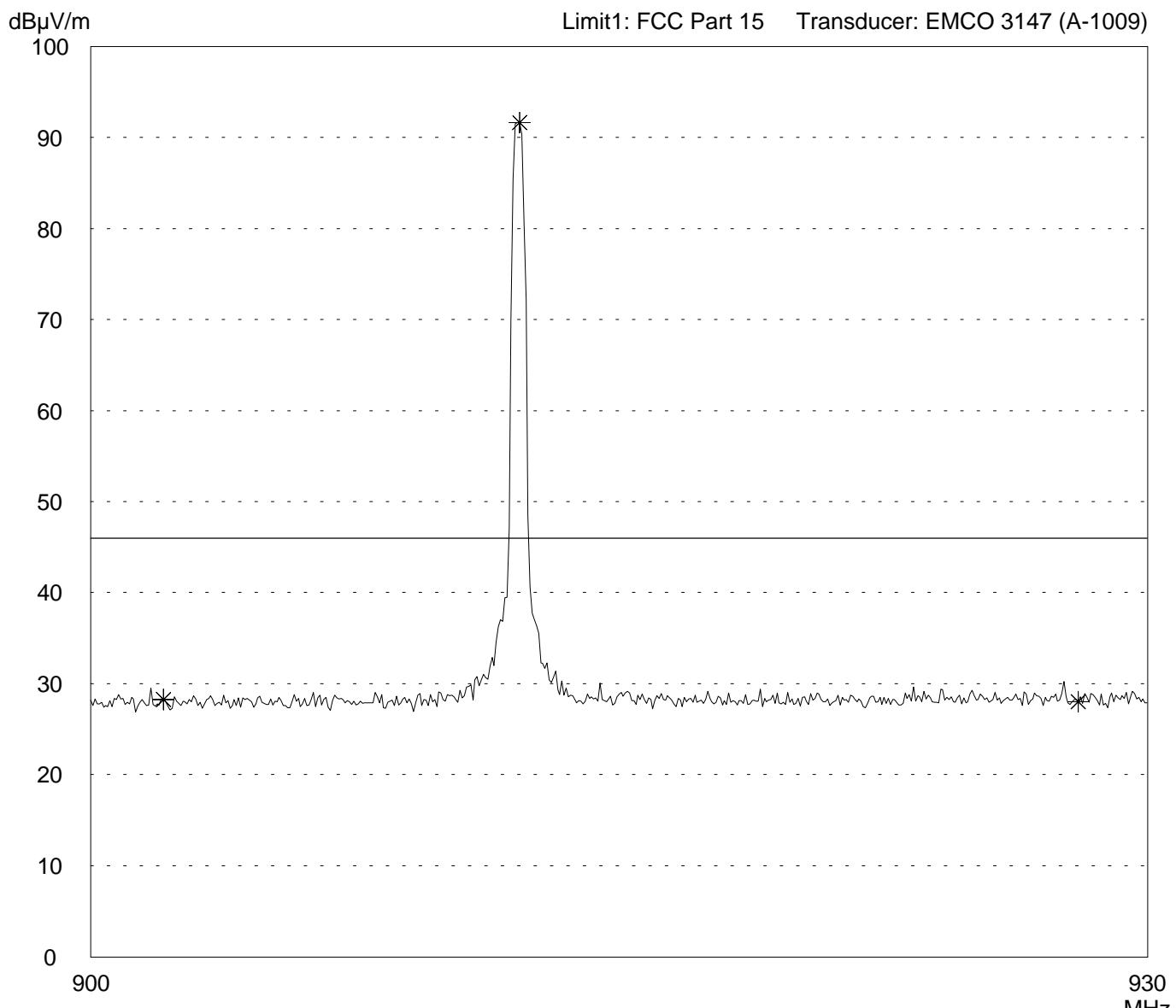
Result:
Limit kept

Project file:
55601-30480-1

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Radiated Emission Test 900 MHz - 930 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

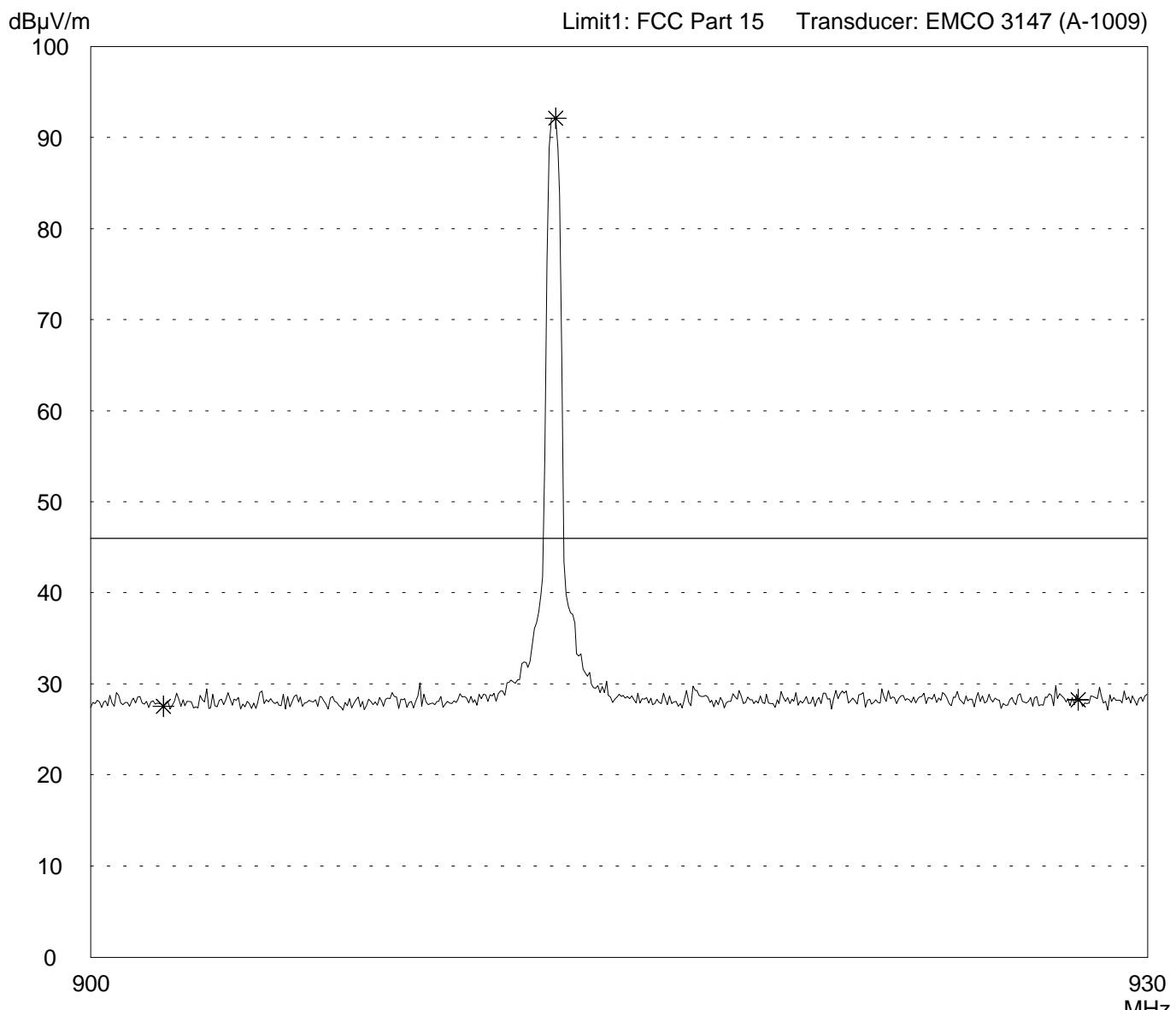
Model:	Comment:
EchoFM US version (transmitter)	- DC 12 V power supply via AC 115 V
Serial no.:	- Audio-Input: 250mV @ 1kHz
0001	
Applicant:	- channel 1
Hearing Products International Ltd.	- sending continuously
Test site:	- with modification
Fully anechoic room, cabin no. 2	
Tested on:	
Test distance 3 metres	
Horizontal Polarization	
Date of test:	Operator:
09/29/2003	M. Steindl
Test performed:	File name:
automatically	default.emi
Detector:	List of values:
Peak	Selected by hand



Result: Project file: Page of Pages
Limit kept 55601-30480-1

Radiated Emission Test 900 MHz - 930 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model:	Comment:	
EchoFM US version (transmitter)	- DC 12 V power supply via AC 115 V	
Serial no.:	- Audio-Input: 250mV @ 1kHz	
0001		
Applicant:	- channel 3	
Hearing Products International Ltd.	- sending continuously	
Test site:	- with modification	
Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 3 metres		
Horizontal Polarization		
Date of test:	Operator:	
09/29/2003	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:	List of values:	
Peak	Selected by hand	

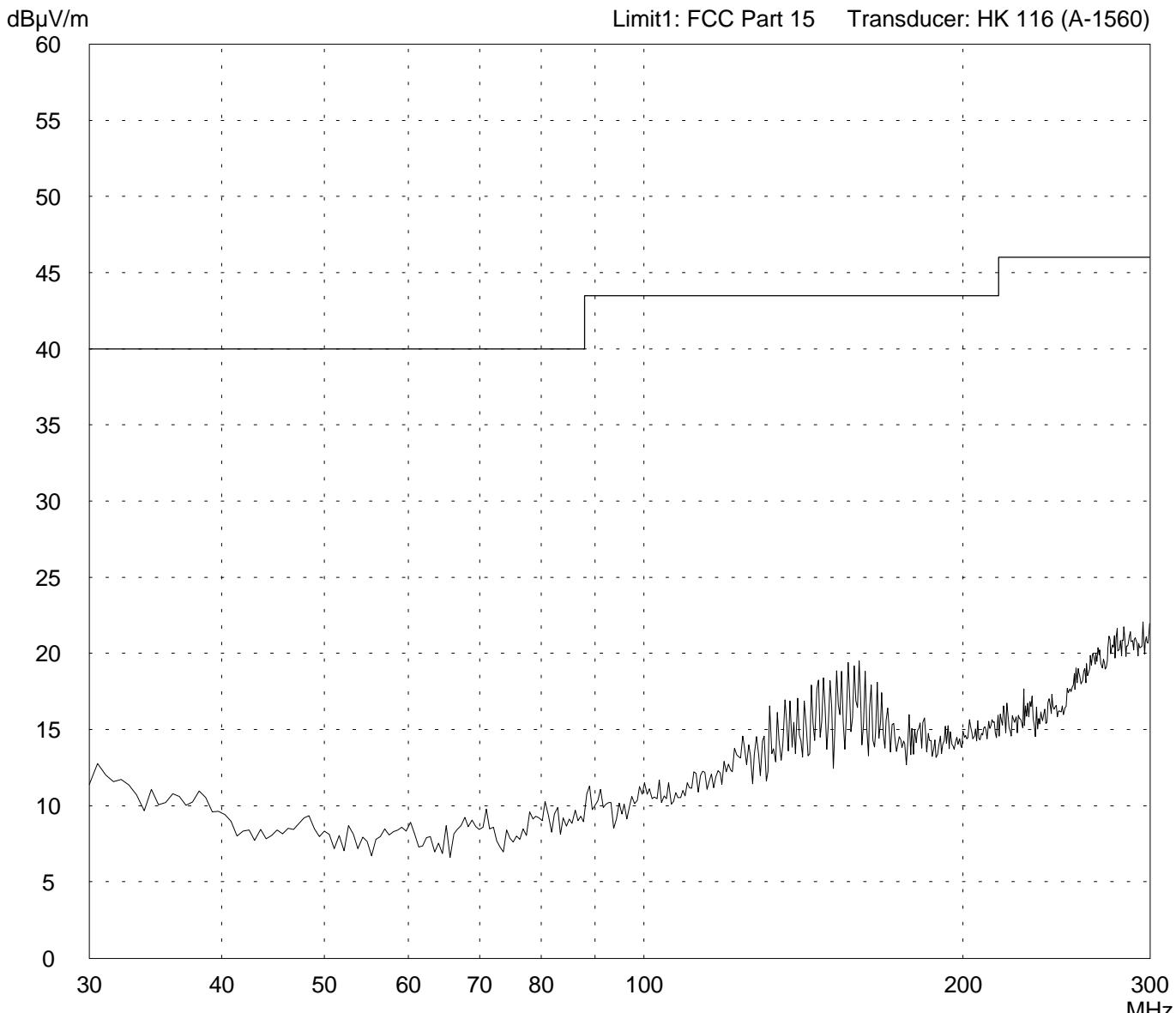


Result: Limit kept Project file: 55601-30480-1 Page of Pages

Radiated Emission Test 30 MHz - 300 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model:	Comment:	
EchoFM US version (transmitter)	<ul style="list-style-type: none"> - DC 12 V power supply via AC 115 V 	
Serial no.:	<ul style="list-style-type: none"> - Audio-input: 250mV @ 1kHz 	
0001	<ul style="list-style-type: none"> - channel 2 	
Applicant:	<ul style="list-style-type: none"> - sending continuously 	
Hearing Products International Ltd.		
Test site:		
Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 3 metres		
Horizontal Polarization		
Date of test:	Operator:	
07/22/2003	M. Steindl	
Test performed:	File name:	
automatically	default.emi	

Detector:	List of values:	
Peak	10 dB Margin	50 Subranges



Result:	Project file:
Prescan	55601-30480-1

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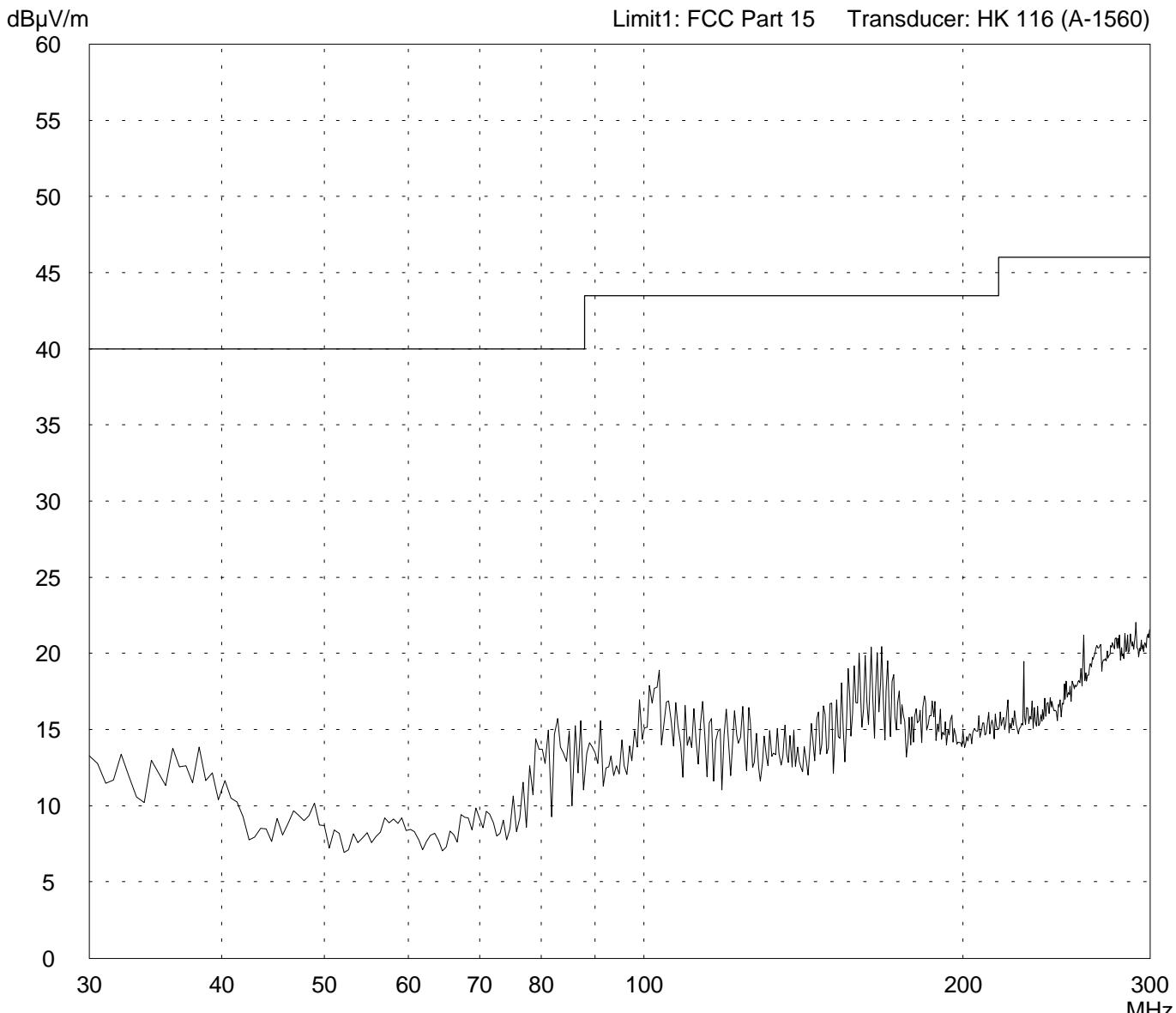
Radiated Emission Test 30 MHz - 300 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model:	EchoFM US version (transmitter)	
Serial no.:	0001	
Applicant:	Hearing Products International Ltd.	
Test site:	Fully anechoic room, cabin no. 2	
Tested on:	Test distance 3 metres Vertical Polarization	
Date of test:	07/22/2003	Operator: M. Steindl
Test performed:	automatically	File name: default.emi

Comment:	
- DC 12 V power supply via AC 115 V	
- Audio-input: 250mV @ 1kHz	
- channel 2	
- sending continuously	

Detector:	Peak
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List of values:	10 dB Margin	50 Subranges
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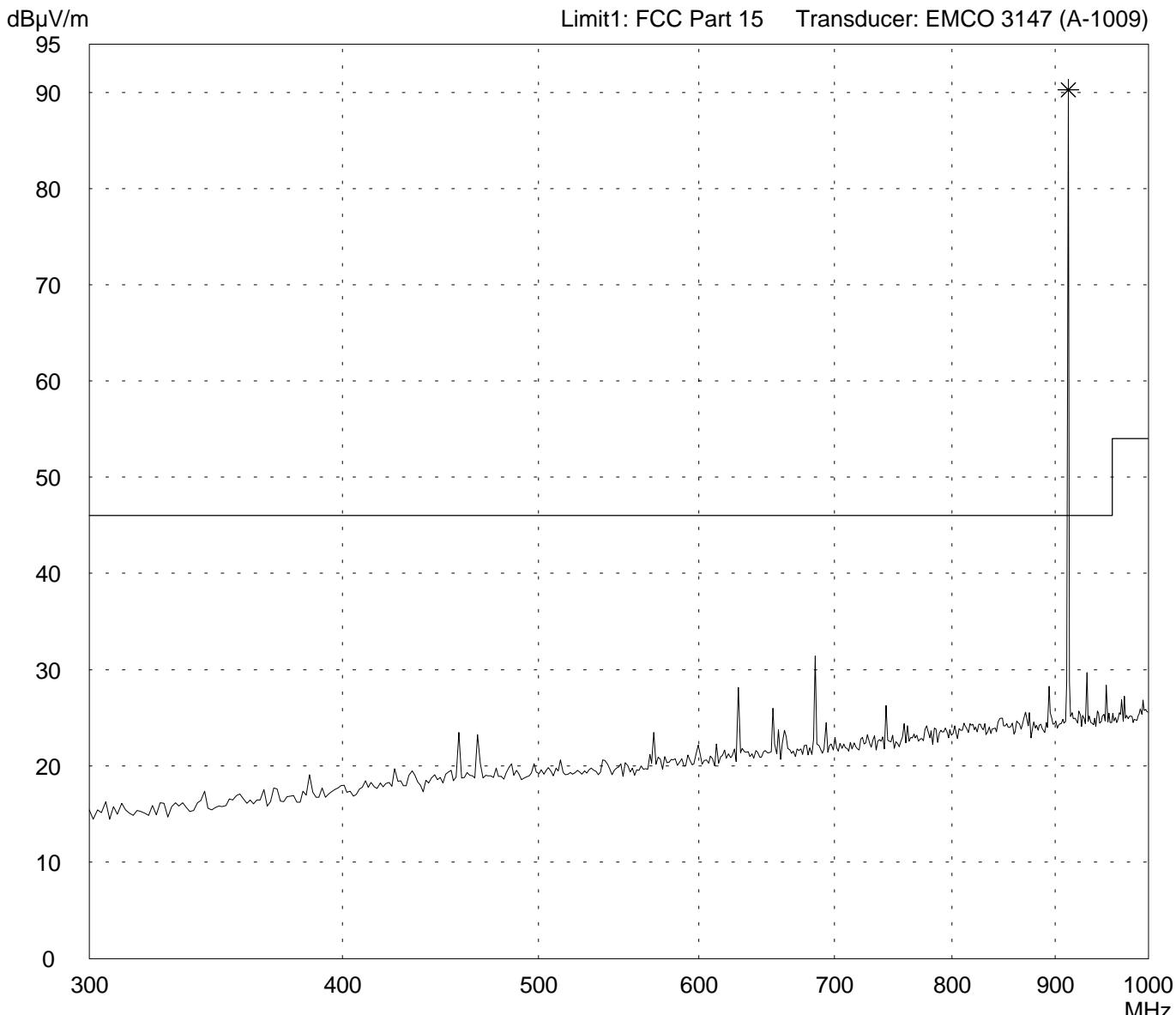
Result:	Prescan
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Project file:	55601-30480-1	Page	of	Pages
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Radiated Emission Test 300 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: EchoFM US version (transmitter)	Comment: - DC 12 V power supply via AC 115 V
Serial no.: 0001	- Audio-Input: 250mV @ 1kHz
Applicant: Hearing Products International Ltd.	- channel 2
Test site: Fully anechoic room, cabin no. 2	- sending continuously
Tested on: Test distance 3 metres Horizontal Polarization	- with modification
Date of test: 09/29/2003	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin	50 Subranges
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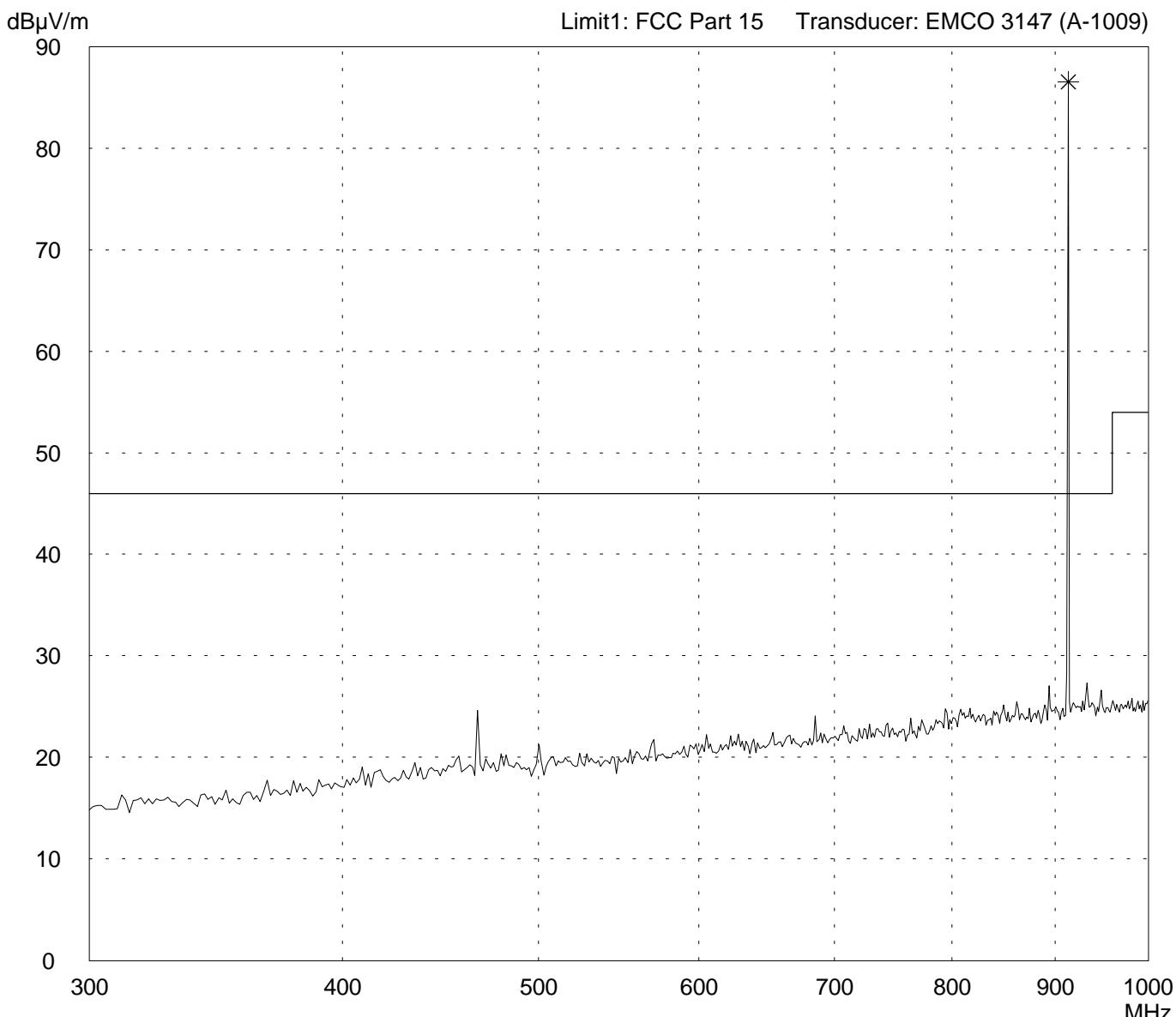
Result: Prescan	Project file: 55601-30480-1	Page	of	Pages
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**Radiated Emission Test 300 MHz - 1 GHz
acc. to FCC Part 15 (Fully Anechoic Chamber)**

Model:	EchoFM US version (transmitter)	
Serial no.:	0001	
Applicant:	Hearing Products International Ltd.	
Test site:	Fully anechoic room, cabin no. 2	
Tested on:		
Test distance 3 metres		
Vertical Polarization		
Date of test:	Operator:	
09/29/2003	M. Steindl	
Test performed:	File name:	
automatically	default.emi	

Comment:	
- DC 12 V power supply via AC 115 V	
- Audio-Input: 250mV @ 1kHz	
- channel 2	
- sending continuously	
- with modification	

Detector:	Peak	List of values:
		10 dB Margin 50 Subranges

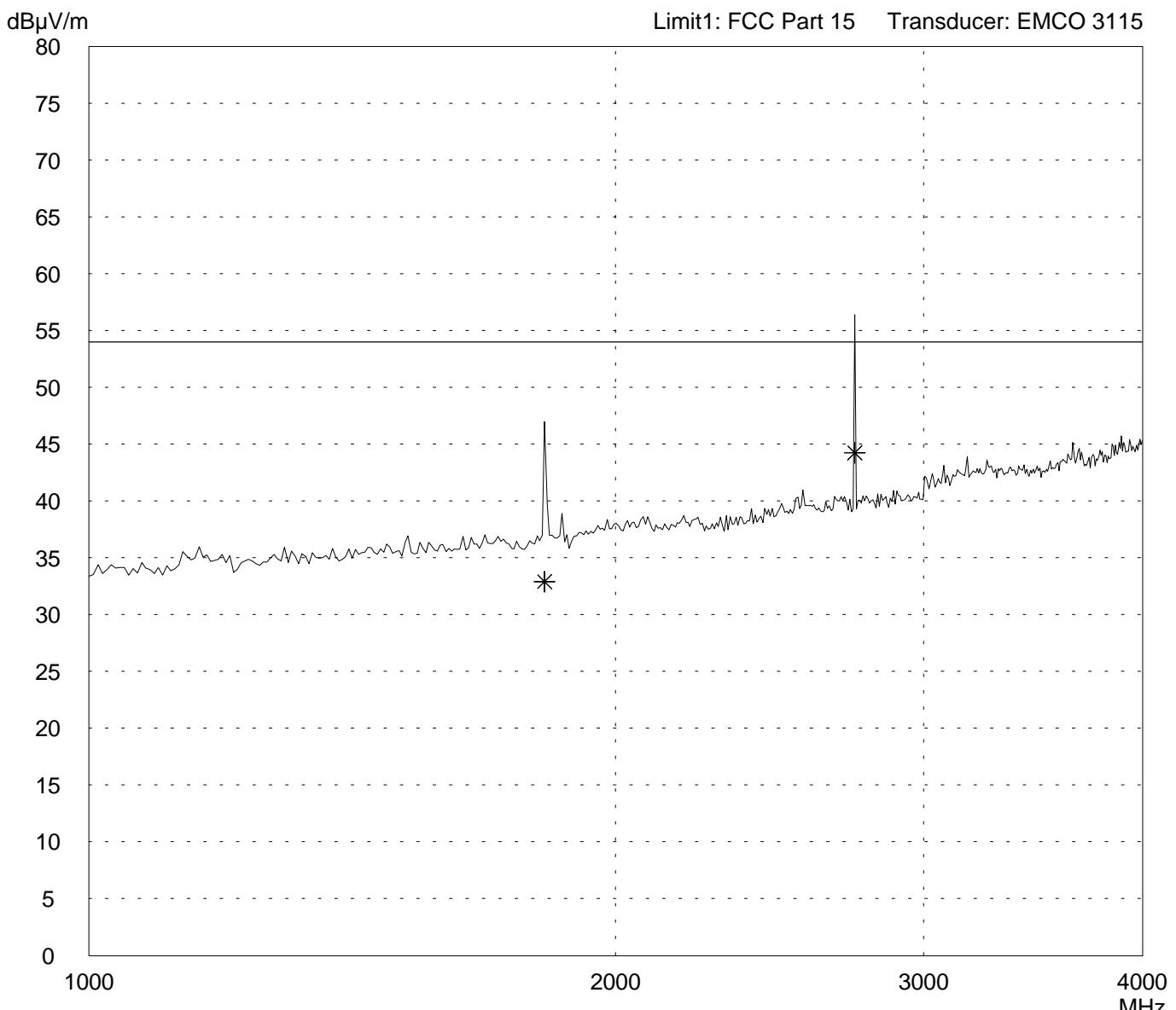


Result:	Prescan
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Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

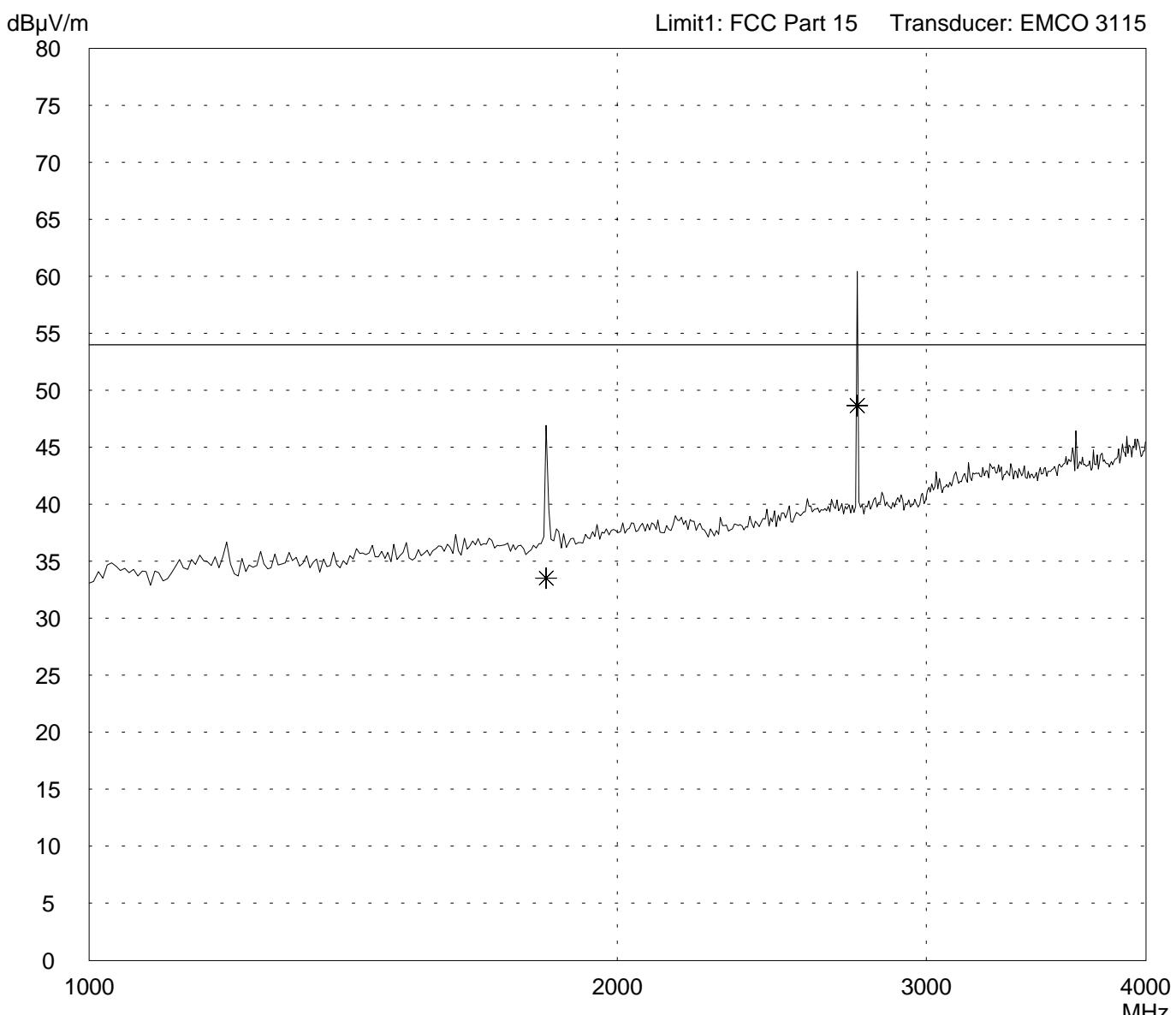
Model: EchoFM US version (transmitter)	Comment: - DC 12 V power supply via AC 115 V
Serial no.: 0001	- Audio-Input: 250mV @ 1kHz
Applicant: Hearing Products International Ltd.	- channel 2 - sending continuously - with modification
Test site: Fully anechoic room, cabin no. 2	- note: with WHKS1000-10SS high pass filter
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 09/29/2003	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector: Prescan: Peak, Final: Average	List of values: Selected by hand



Result: Limit kept	Project file: 55601-30480-1	Page	of	Pages
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Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

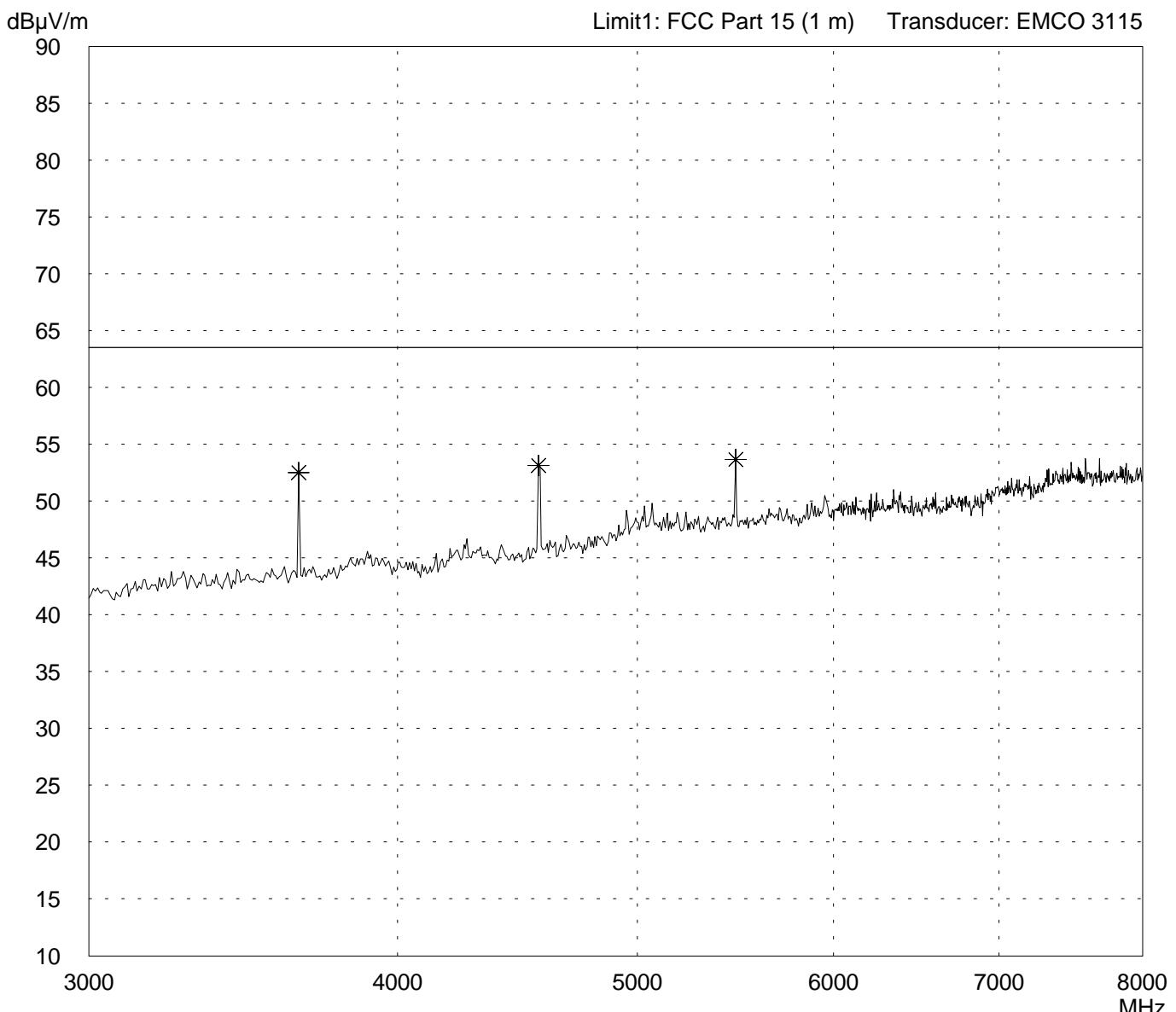
Model:	Comment:	
EchoFM US version (transmitter)	<ul style="list-style-type: none"> - DC 12 V power supply via AC 115 V 	
Serial no.:	<ul style="list-style-type: none"> - Audio-Input: 250mV @ 1kHz 	
0001	<ul style="list-style-type: none"> - channel 2 - sending continuously - with modification 	
Applicant:	<ul style="list-style-type: none"> - note: with WHKS1000-10SS high pass filter 	
Hearing Products International Ltd.		
Test site:		
Fully anechoic room, cabin no. 2		
Tested on:		
Test distance 3 metres		
Vertical Polarization		
Date of test:	Operator:	
09/29/2003	M. Steindl	
Test performed:	File name:	
automatically	default.emi	
Detector:	List of values:	
Prescan: Peak, Final: Average	Selected by hand	



Result: Limit kept Project file: 55601-30480-1 Page of Pages

Radiated Emission Test 3 GHz - 8 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: EchoFM US version (transmitter)	Comment: - DC 12 V power supply via AC 115 V
Serial no.: 0001	- Audio-Input: 250mV @ 1kHz
Applicant: Hearing Products International Ltd.	- channel 2 - sending continuously - with modification
Test site: Fully anechoic room, cabin no. 2	- note: with WHKM3/13G-10SS high pass filter
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 09/29/2003	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector: Peak	List of values: Selected by hand



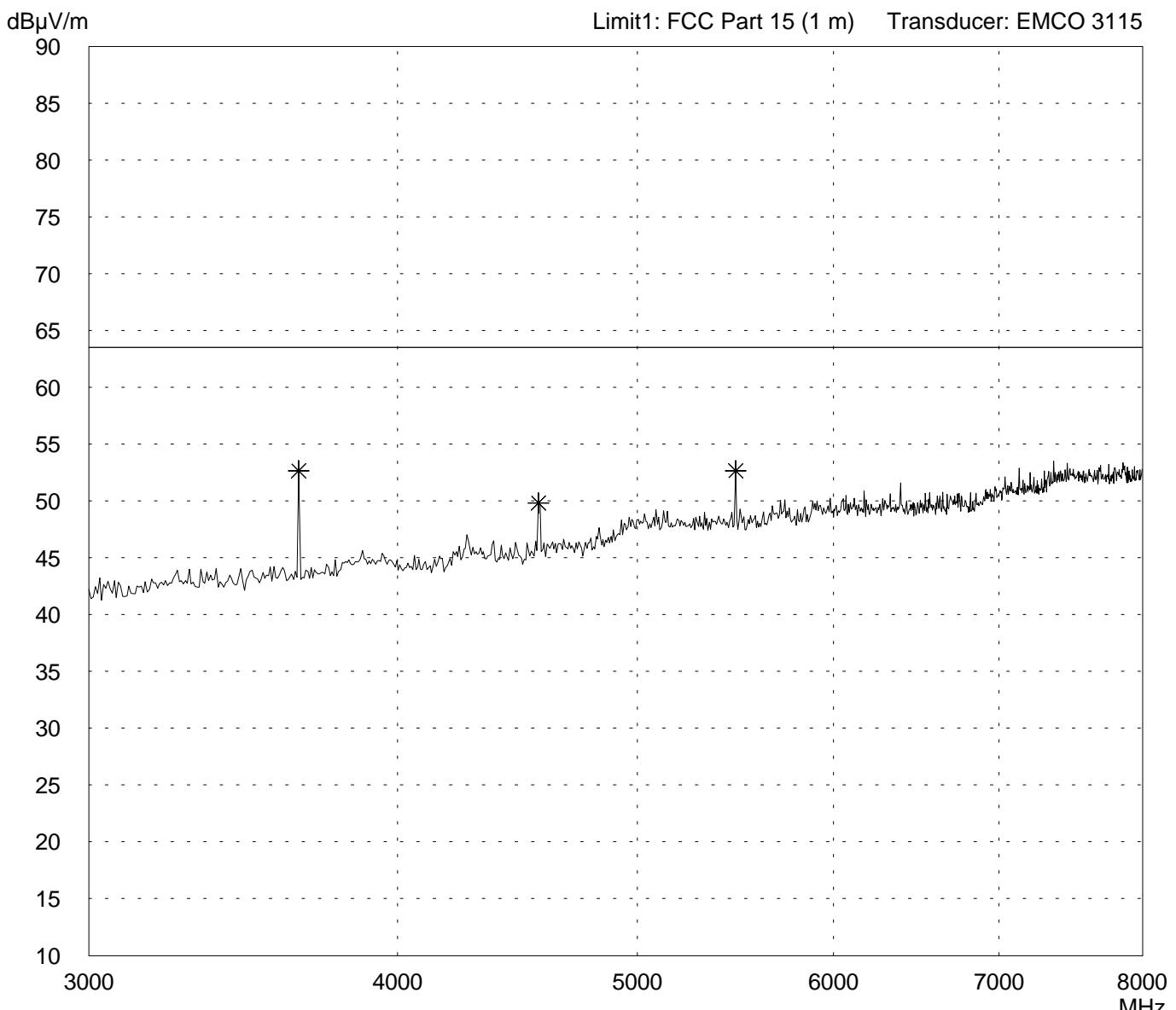
Result:
Limit kept

Project file:
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Radiated Emission Test 3 GHz - 8 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: EchoFM US version (transmitter)	Comment: - DC 12 V power supply via AC 115 V
Serial no.: 0001	- Audio-Input: 250mV @ 1kHz
Applicant: Hearing Products International Ltd.	- channel 2 - sending continuously - with modification
Test site: Fully anechoic room, cabin no. 2	- note: with WHKM3/13G-10SS high pass filter
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 09/29/2003	Operator: M. Steindl
Test performed: automatically	File name: default.emi
Detector: Peak	List of values: Selected by hand



Result:

Limit kept

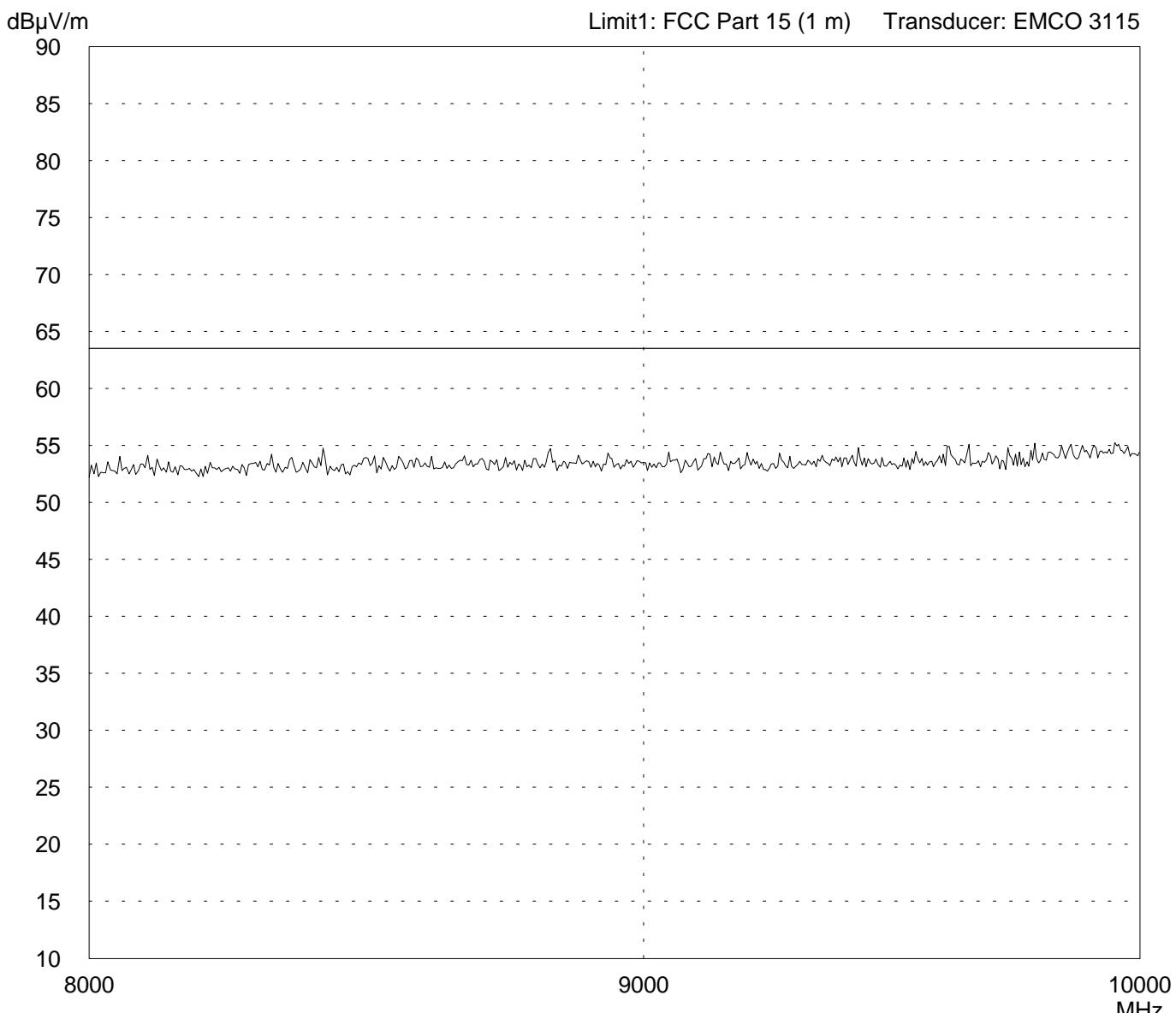
Project file:

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Radiated Emission Test 8 GHz - 10 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

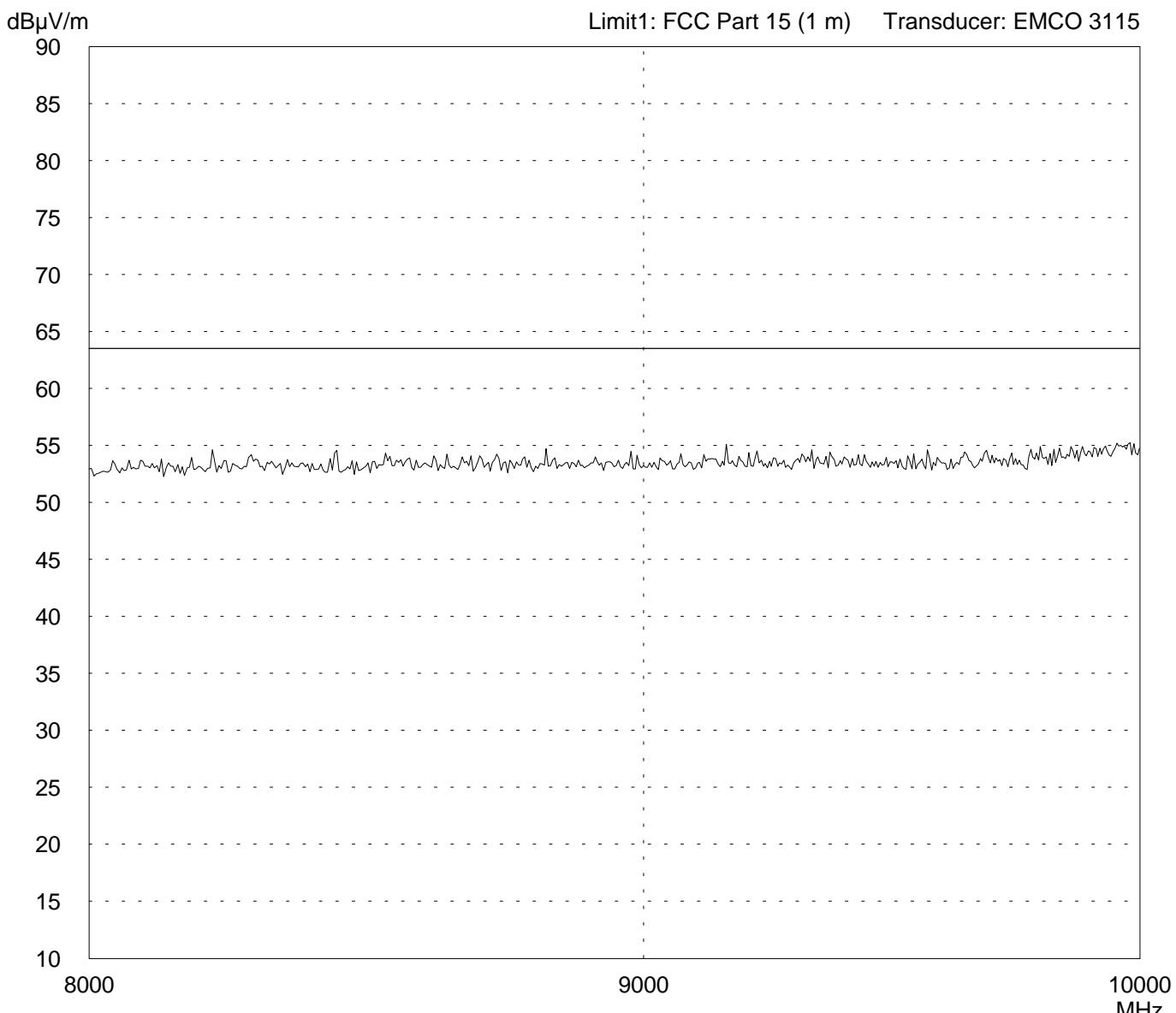
Model:	Comment:
EchoFM US version (transmitter)	- DC 12 V power supply via AC 115 V
Serial no.:	- Audio-Input: 250mV @ 1kHz
0001	
Applicant:	- channel 2
Hearing Products International Ltd.	- sending continuously
Test site:	- with modification
Fully anechoic room, cabin no. 2	
Tested on:	- note: with WHKM3/13G-10SS high pass filter
Test distance 1 metre	
Horizontal Polarization	
Date of test:	Operator:
09/29/2003	M. Steindl
Test performed:	File name:
automatically	default.emi
Detector:	List of values:
Peak	Selected by hand



Result: Project file:
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Radiated Emission Test 8 GHz - 10 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model:	Comment:
EchoFM US version (transmitter)	- DC 12 V power supply via AC 115 V
Serial no.:	- Audio-Input: 250mV @ 1kHz
0001	
Applicant:	- channel 2
Hearing Products International Ltd.	- sending continuously
Test site:	- with modification
Fully anechoic room, cabin no. 2	
Tested on:	- note: with WHKM3/13G-10SS high pass filter
Test distance 1 metre	
Vertical Polarization	
Date of test:	Operator:
09/29/2003	M. Steindl
Test performed:	File name:
automatically	default.emi
Detector:	List of values:
Peak	Selected by hand



Result: Project file:
Limit kept 55601-30480-1 Page of Pages