

Straubing, 8 May 2003

TEST - REPORT

No. 55106-30463

for

M 500 (S4322 D)

Remote Control Transmitter

Applicant: META System S.p.A.

Test Specification: FCC Code of Federal Regulations,
Part 15 Subpart C, Section 15.231

Industry Canada Radio Standards
Specification RSS-210 Issue 5,
Section 6.1 (Transmitters,
Momentarily Operated Devices)

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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1. Administrative Data

Test item (EUT)	
Type designation	M 500 (S4322D)
Serial number(s):	001
Type of equipment:	Remote Control Transmitter
Parts/accessories:	---
FCC-ID:	P3OS4322D
Technical data	
Frequency range	---
Operational frequency	433.92 MHz
Type of modulation	10K0A1D
Pulse frequency	N/A
Pulse width	N/A
Antenna	Integrated
Power supply	6 V DC (2 x 3 V Lithium Cell)
Applicant: (full address)	META System S.p.A. via Majakovskij 10 b/c/d/e I-42100 Reggio Emilia / Italy
Contract identification:	---
Contact person:	Mr. Giorgio Maldini
Manufacturer:	Applicant
Application details	
Receipt of EUT:	11 July 2003
Date of test:	22 July 2003
Note:	---
Responsible for testing:	Johann Roidt
Responsible for test report:	Johann Roidt

2. Identification of Test Laboratory

DETAILS OF THE TEST LABORATORY	
COMPANY NAME:	Senton GmbH EMI/EMC Test Center
ADDRESS:	Aeussere Fruehlingsstrasse 45 D-94315 Straubing Germany
LABORATORY ACCREDITATION:	DAR-Registration No. TTI-P-G 062/94-40
FCC TEST SITE LISTING	90926
INDUSTRY CANADA TEST SITE REGISTRATION	IC 3050
NAME FOR CONTACT PURPOSES:	Mr. Johann Roidt
TELEPHONE: (+49) (0)9421 5522-0	FAX: (+49) (0)9421 5522-99

PERSONNEL INVOLVED IN THIS TEST REPORT	
TECHNICAL DIRECTOR:	 Mr. Johann Roidt
RESPONSIBLE FOR TESTING:	Mr. Martin Steindl
RESPONSIBLE FOR TEST REPORT:	Mr. Martin Steindl

SUMMARY OF TEST RESULTS
The tested sample complies with the requirements set forth in the FCC Code of Federal Regulations Part 15, Subpart C, Section 15.231

3. Operation Mode of EUT

While one button is pressed, the transmitter continuously sends the corresponding datagram. When the button is released, the transmitter stops working instantly.

4. Configuration

Configuration of the EUT
Not applicable

Cables connected to the EUT
Not applicable

Peripheral devices connected to the EUT
Not applicable

5. Measuring Methods

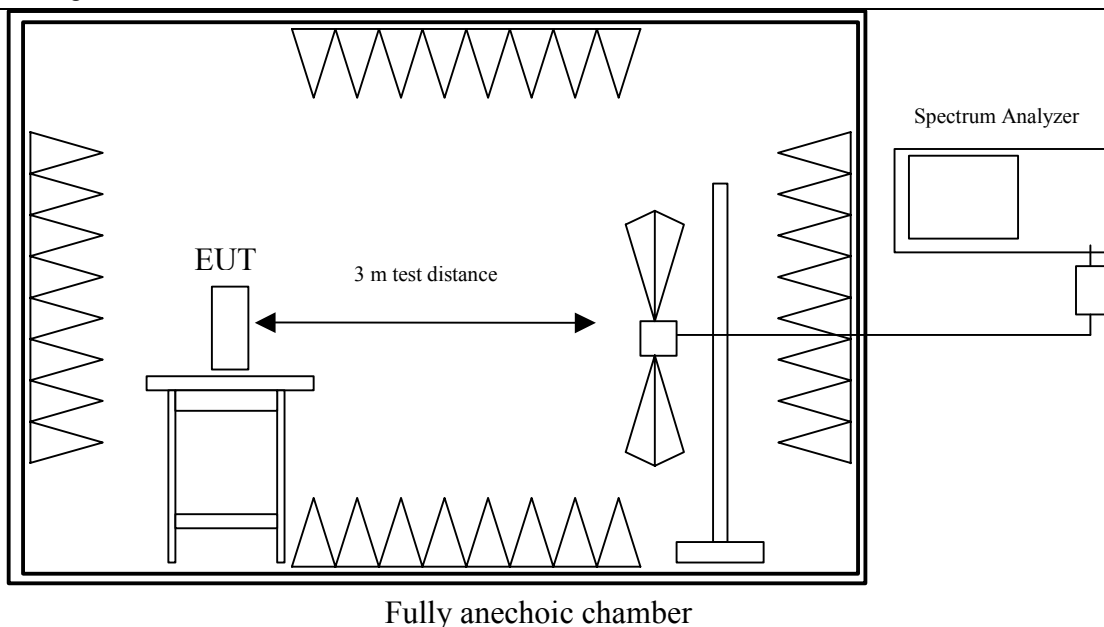
5.1. Field Strength of Emissions, Prescans in a fully-anechoic room

Rules and Specifications:	Sections 15.109 & 15.231
Guide:	ANSI C63.4 1997

Measurement Procedure:

Radiated emissions are measured over the frequency range from 30 MHz to the maximum frequency as specified in section 15.33.

Measurements were 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 bandwidth set to 100 kHz. All tests were 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.



Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
113	Preamplifier	CPA9231A	3393	Schaffner
141	Biconical antenna	HK 116	829708/006	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
003	Fully anechoic room	No. 2	1452	Albatross Projects

5.2. Fieldstrength of Emissions, Measurement at Open Area Test Site

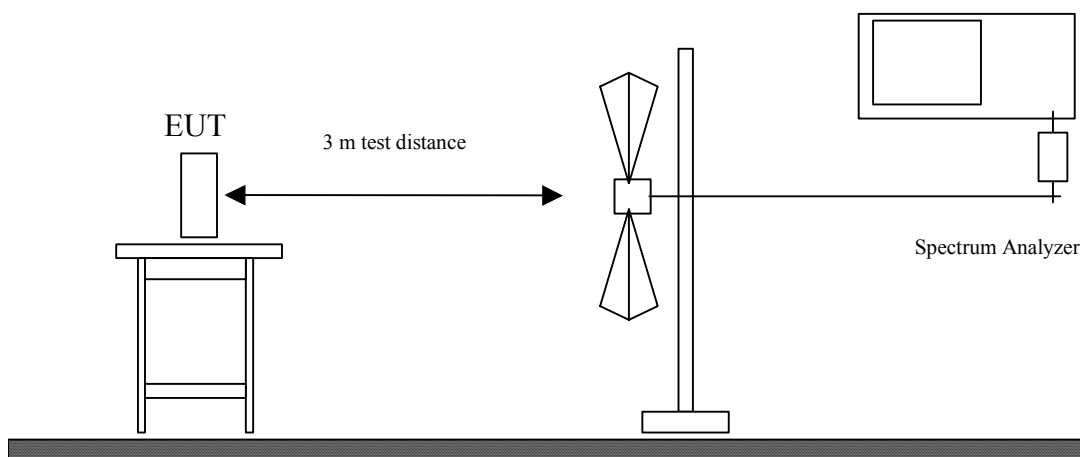
Rules and Specifications:	Sections 15.109 & 15.231
Guide:	ANSI C63.4 1997

Measurement Procedure:

Measurement Procedure:

For final testing an open-area test-site was used. Radiated emissions are measured over the frequency range from 30 MHz to the maximum frequency as specified in section 15.33.

Measurements were made in both the horizontal and vertical planes of polarisation at a open area test site using a spectrum analyser with the detector function set to CISPR. All test were performed at a test distance of 3 meters. During the tests the EUT is rotated all around, and the receiving-antenna is rased and lowered from 1m to 4m 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	EMI Receiver	ESVP	881414/009	Rohde & Schwarz
141	Biconical antenna	HK 116	829708/006	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
003	Open Field Test Site	No. 1	N/A	Senton

5.3. Fieldstrength of Emissions above 1 GHz

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

Measurement Procedure:

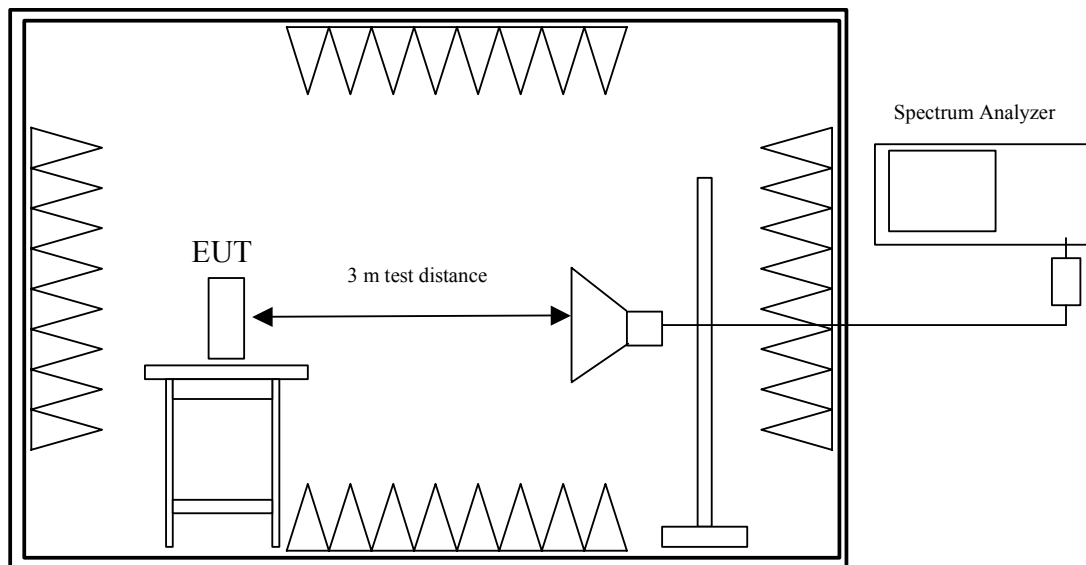
Radiated emissions are measured in the frequency range 1 GHz to the maximum frequency as specified in section 15.33.

Resolution and video bandwidth of the spectrum analyzer are set to 1 MHz. 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. Additional measurements are performed at critical frequencies with reduced span.

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.

All tests are performed in a fully-anechoic chamber with a test-distance of 3 meters.

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).



Fully anechoic

Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	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	Fully anechoic room	No. 2	1452	Albatross Projects

6. Photographs Taken During Testing

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



**Test setup for radiated emission measurement
(open-area test-side)**



7. List of Measurements

FCC Part 15			
Section(s):	Test	Page(s)	Result
15.205 15.231 (a) (1) 15.231 (b) 15.231 (b) 15.231 (c)			
	Restricted Bands		Pass
	Periodic operation		Pass
	Duty Cycle Correction	15	
	Field strength of emissions	16	Pass
	Bandwidth of emissions	17	Pass

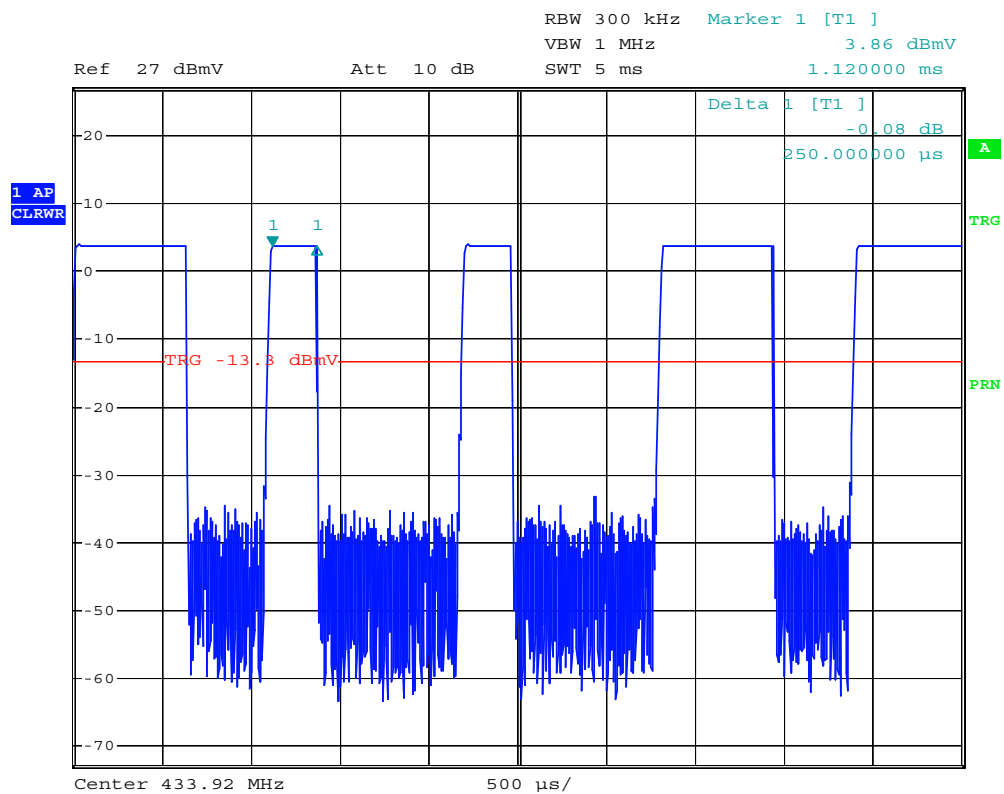
Industry Canada RSS 210 Issue 5			
Section(s):	Test	Page(s)	Result
6.1.1 (a) 6.1.1 (b) 6.1.1. (c)			
	Types of momentary signals	15	Pass
	Fieldstrengths and Frequency Bands	16	Pass
	Bandwidth of momentary signals	17	Pass

Duty Cycle Correction

Rules and Specifications:	15.231 (b) (2) Limits on the Field Strength of Emissions
Guide:	ANSI C63.4
ANSI C63.4	When average detector function limits are specified for a pulse modulated transmitter, the average level of emissions may be found by measuring the peak levels of the emissions and correcting them with the duty cycle according to ANSI C64.4, section I4 (10)

$$Duty\ Cycle\ Correction[dB] = 20 \cdot \log\left(\frac{Sum\ of\ the\ Pulse\ Widths}{100ms}\right) = -dB$$

Since the EUT emits a pseudo random code, ad duty cycle of -6 dB was assumed



Comment A: meta 30463: duty cycle
Date: 22.JUL.2003 09:28:12

Field strength of emissions

Rules and Specifications:	15.231 (b) Radiated Emission Limits		
Guide:	ANSI C63.4		
Limit:	In addition to the provisions of Section 15.205, the field strength of emissions from intentional radiators operated under Section 15.231 shall not exceed the following:		
	Fundamental Frequency (MHz)	Field Strength of Fundamental (microvolts/meter)	Field Strength of Spurious Emissions (microvolts/meter)
	40.66 – 40.70	2.250	225
	70 – 130	1.250	125
	130 – 174	1.250 to 3.750**	125 to 375 **
	174 – 260	3.750	375
	260 – 470	3750 to 12.500**	375 to 1250 **
	above 470	12.500	1250

** linear interpolations

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

Frequency (MHz)	Detector	Antenna Polarization	Analyzer Reading (dBμV)	Antenna Correction (dB/m)	Duty Cycle Correction (dB/m)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
433,92	QP	Vertical	57	19,50	-6	70,50	80,8	-10,3
867,80	QP	Vertical	24,60	27,20	-6	45,80	60,80	-15,0
1738,00	PK	Vertical	26,39	32,04	-6	52,43	60,80	-8,4
2170,00	PK	Vertical	20	33,13	-6	47,13	60,80	-13,7
3040,00	PK	Vertical	24,46	37,85	-6	56,31	60,80	-4,5

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

A negative value for Margin indicates, that the limit is kept.

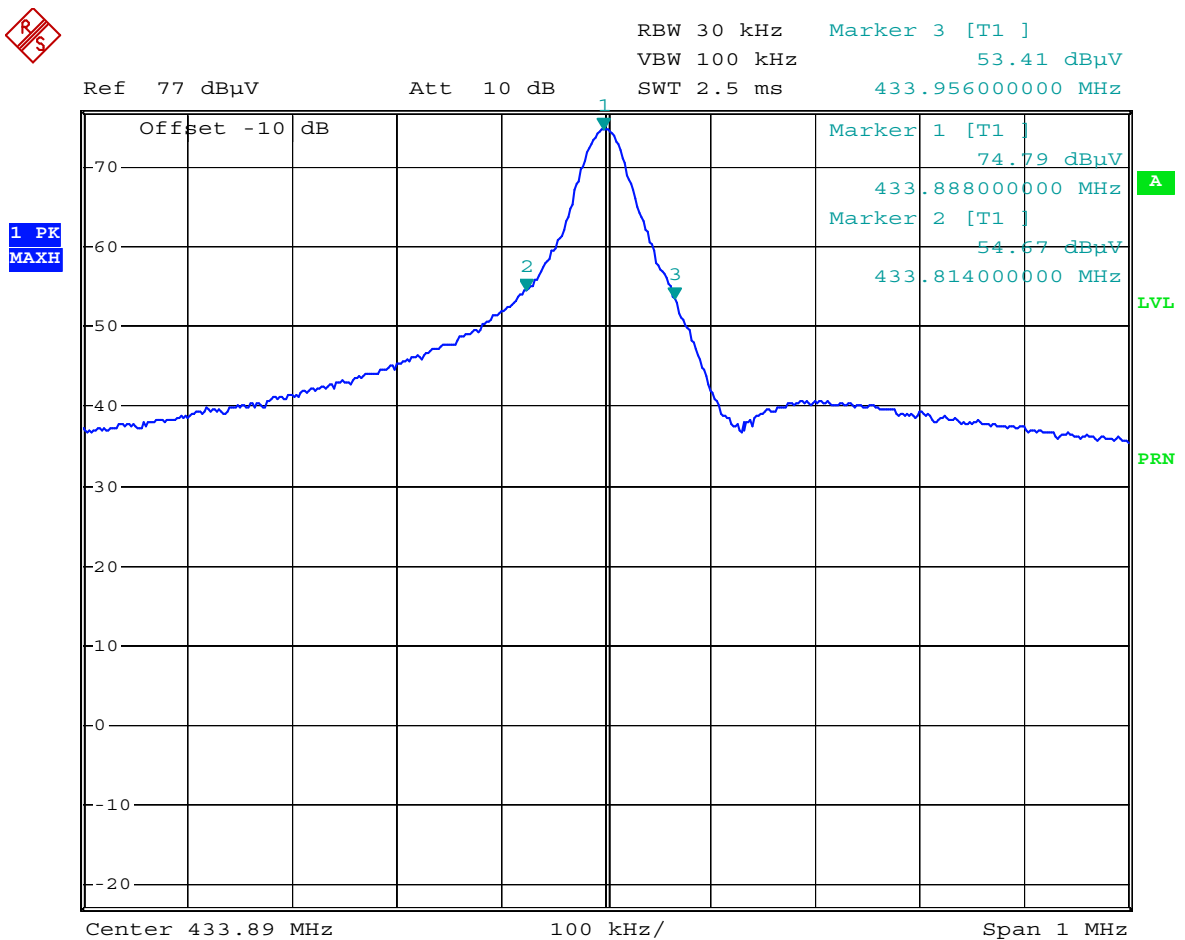
Sample calculation of erp values:

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

Test Results:	Pass
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Bandwidth of Emission

Rules and Specifications:	15.231 c
Guide:	ANSI C63.4
Limit:	The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB from the modulated carrier



Comment A: meta 30463: range of emissions
Date: 23.JUL.2003 14:17:43

Test Results:	Pass	Bandwidth of Emission = 142 kHz = 0.032 %
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8. Referenced Regulations

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

☒	FCC Part 2	Code of Federal Regulations Part 2 Frequency allocation and radio treaty matters; General rules and regulations	October 01, 1999
☐	FCC Part 15 Subpart A	Code of Regulations Part 15 (Radio Frequency Devices), Subpart A (General) of the Federal Communication Commission (FCC)	May 30, 2002
☐	FCC Part 15 Subpart B	Code of Regulations Part 15 (Radio Frequency Devices), Subpart B (Unintentional Radiators) of the Federal Communication Commission (FCC)	May 30, 2002
☒	FCC Part 15 Subpart C	Code of Regulations Part 15 (Radio Frequency Devices), Subpart C (Intentional Radiators) of the Federal Communication Commission (FCC)	May 30, 2002
☐	FCC Part 74 Subpart H	Code of Regulations Part 15 (Radio Frequency Devices), Subpart H (Low Power Auxiliary Stations) of the Federal Communication Commission (FCC)	October 20, 1997
☒	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
☒	RSS-210	Radio Standards Specification RSS-210 Issue 5 for Low Power Licence-Exempt Radiocommunication Devices of Industry Canada	November, 2001

9. Charts taken during testing

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

Model:
M500 (S4322D)

Serial no.:
sample 01

Applicant:
META System S.p.A.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test: 07/21/2003 Operator: M. Steindl

Test performed: automatically File name: default.emi

Comment:
- 2 x 3 V lithium battery supply

- EUT in horizontal position
- rotating x-Axis

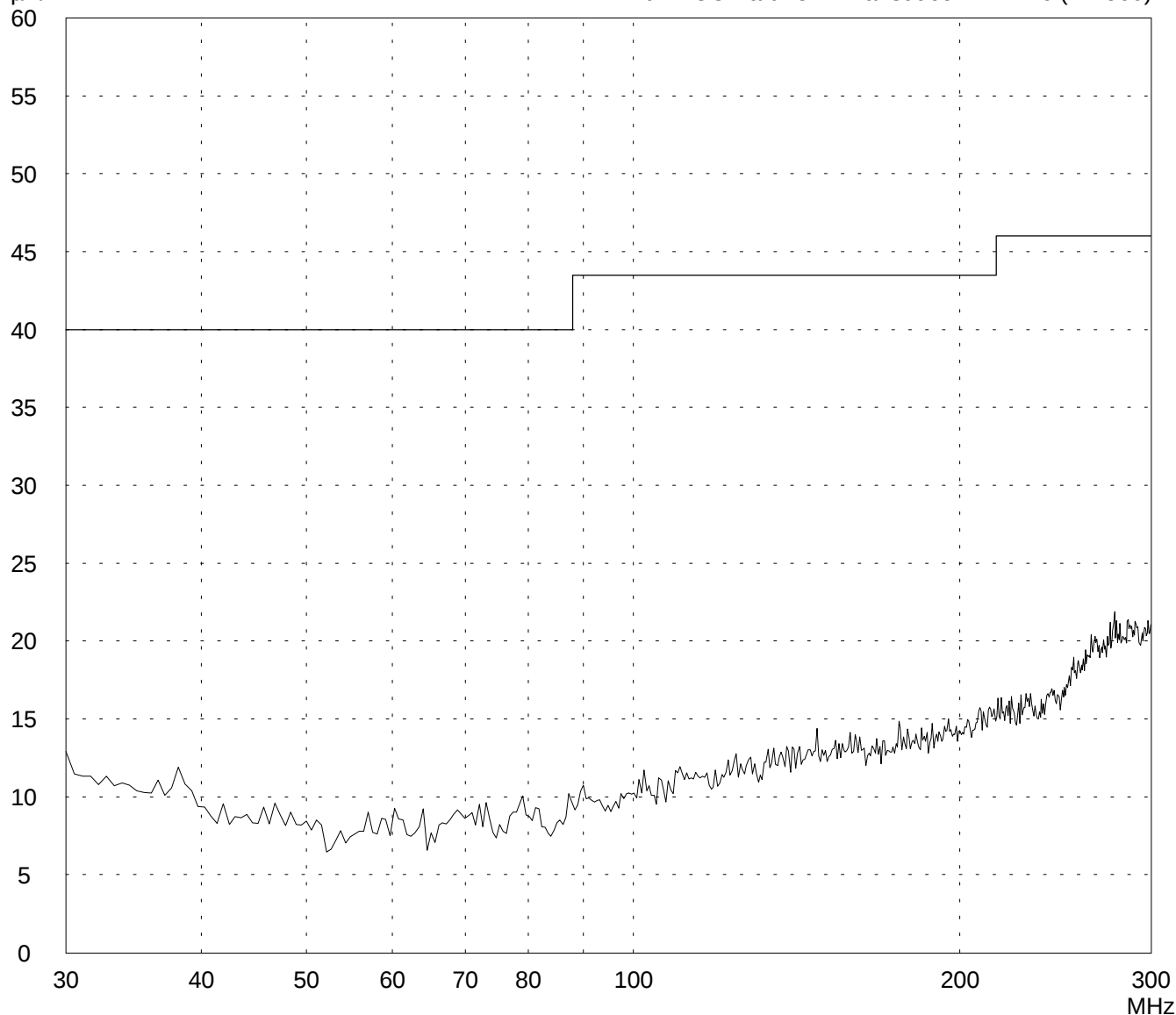
- switching on continuously
- sending pulsed

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

$\text{dB}\mu\text{V/m}$

Limit1: FCC Part 15 Transducer: HK 116 (A-1560)



Result:
Prescan

Project file:
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Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test:
07/21/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

- 2 x 3 V lithium battery supply
- EUT in vertical position
- rotating y-Axis
- switching on continuously
- sending pulsed

Detector:
Peak

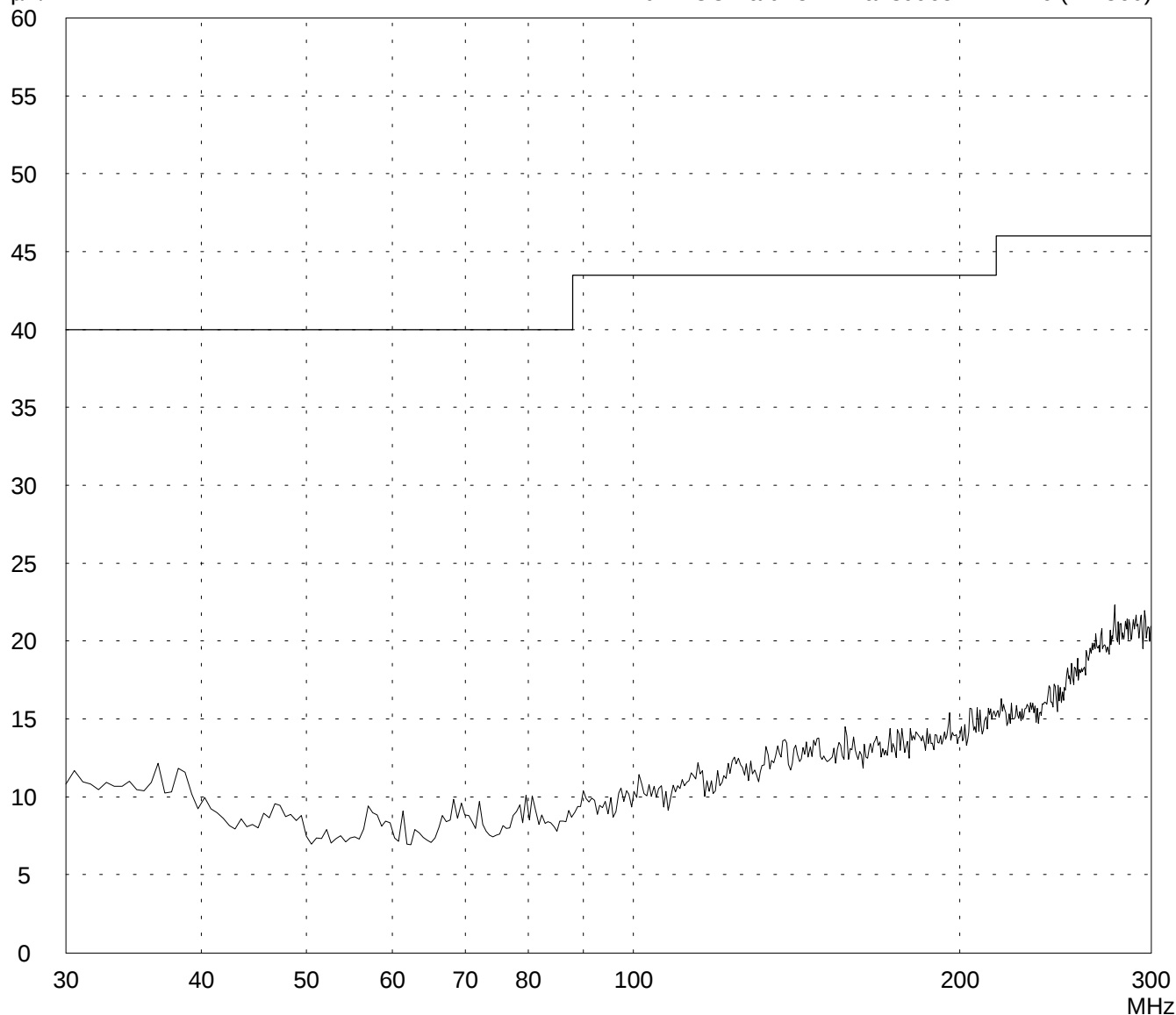
List of values:

10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Part 15 Transducer: HK 116 (A-1560)



Result:
Prescan

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Test site:
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Tested on:
Test distance 3 metres
Vertical Polarization

Date of test:
07/21/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

- 2 x 3 V lithium battery supply
- EUT in vertical position
- rotating y-Axis
- switching on continuously
- sending pulsed

Detector:
Peak

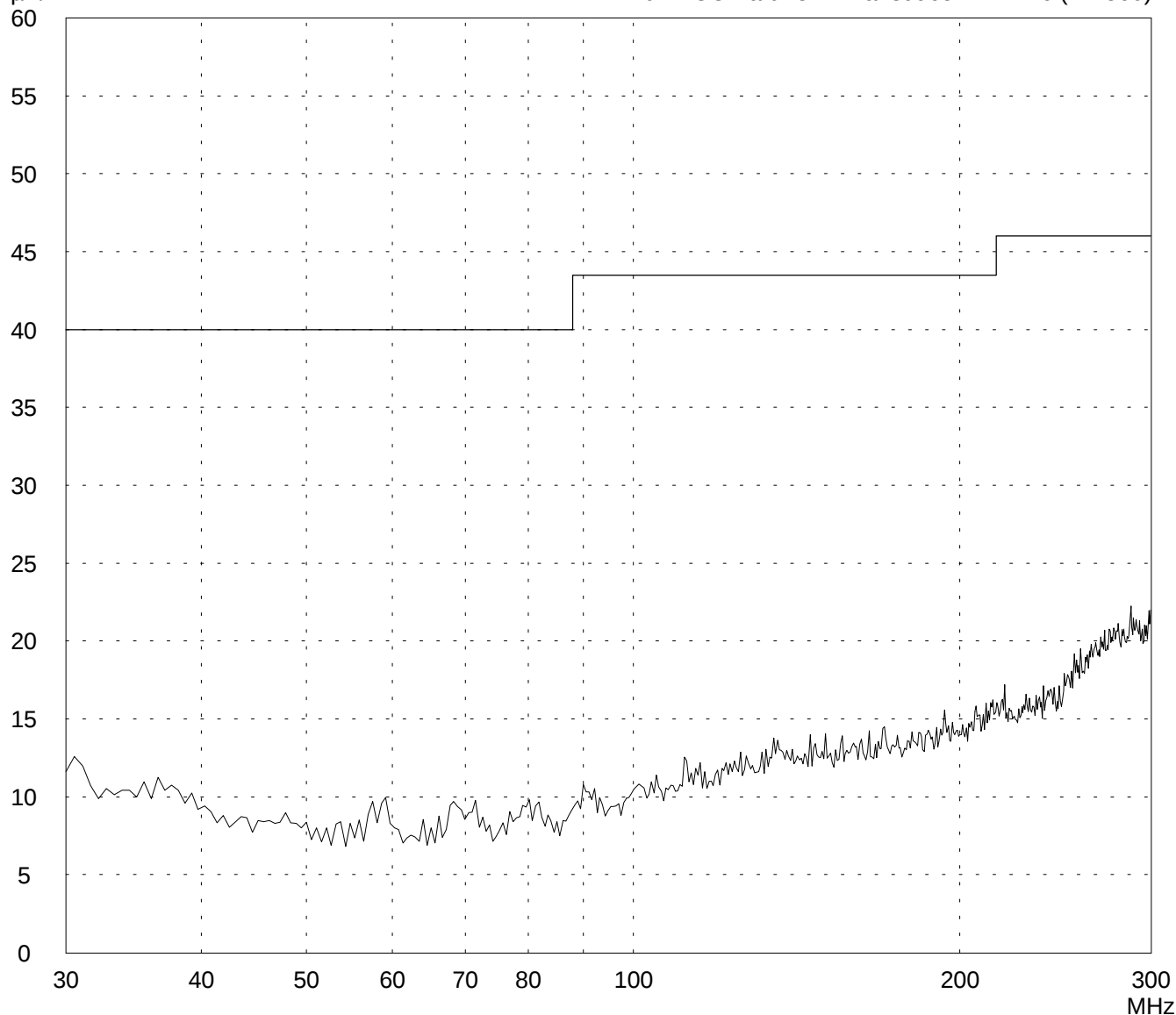
List of values:

10 dB Margin

50 Subranges

$\text{dB}\mu\text{V/m}$

Limit1: FCC Part 15 Transducer: HK 116 (A-1560)



Result:
Prescan

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Serial no.:
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Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test:
07/21/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

- 2 x 3 V lithium battery supply
- EUT in horizontal position
- rotating z-Axis
- switching on continuously
- sending pulsed

Detector:
Peak

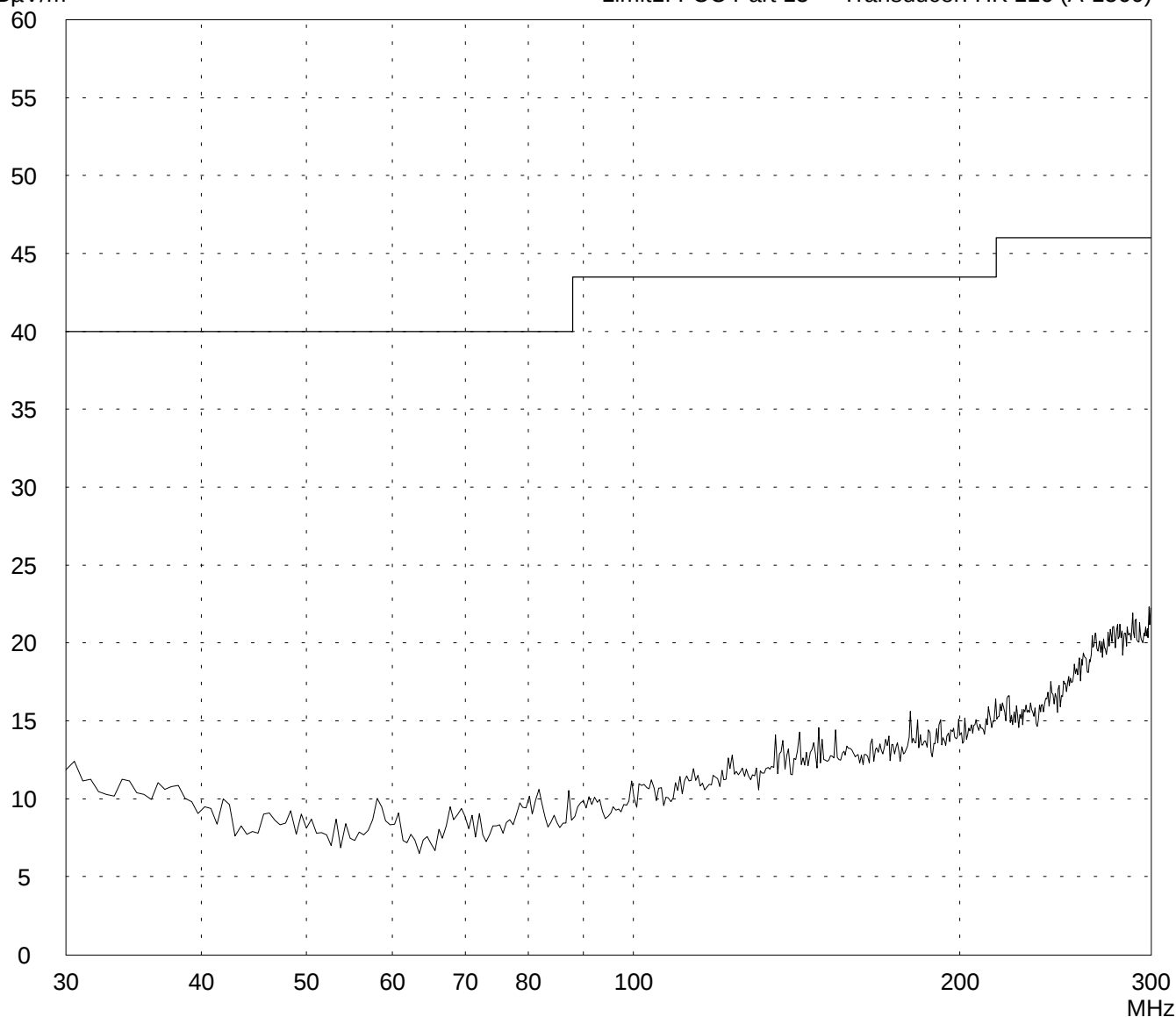
List of values:

10 dB Margin

50 Subranges

$\text{dB}\mu\text{V/m}$

Limit1: FCC Part 15 Transducer: HK 116 (A-1560)



Result:
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Test site:
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Tested on:
Test distance 3 metres
Vertical Polarization

Date of test:
07/21/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

- 2 x 3 V lithium battery supply
- EUT in horizontal position
- rotating z-Axis
- switching on continuously
- sending pulsed

Detector:
Peak

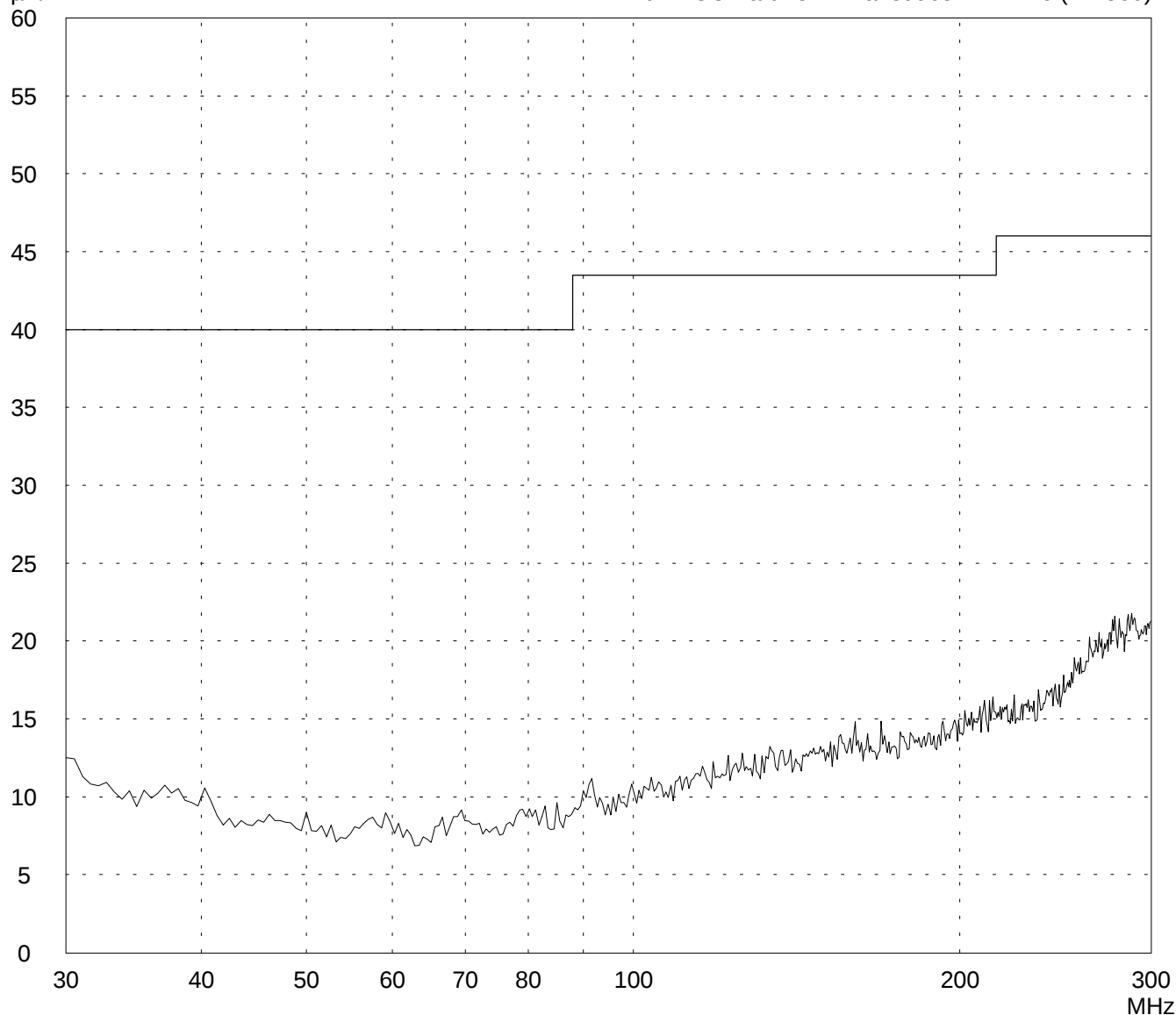
List of values:

10 dB Margin

50 Subranges

$\text{dB}\mu\text{V/m}$

Limit1: FCC Part 15 Transducer: HK 116 (A-1560)



Result:
Prescan

Project file:
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Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test:
07/21/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

- 2 x 3 V lithium battery supply
- EUT in horizontal position
- rotating x-Axis
- switching on continuously
- sending pulsed

Detector:
Peak

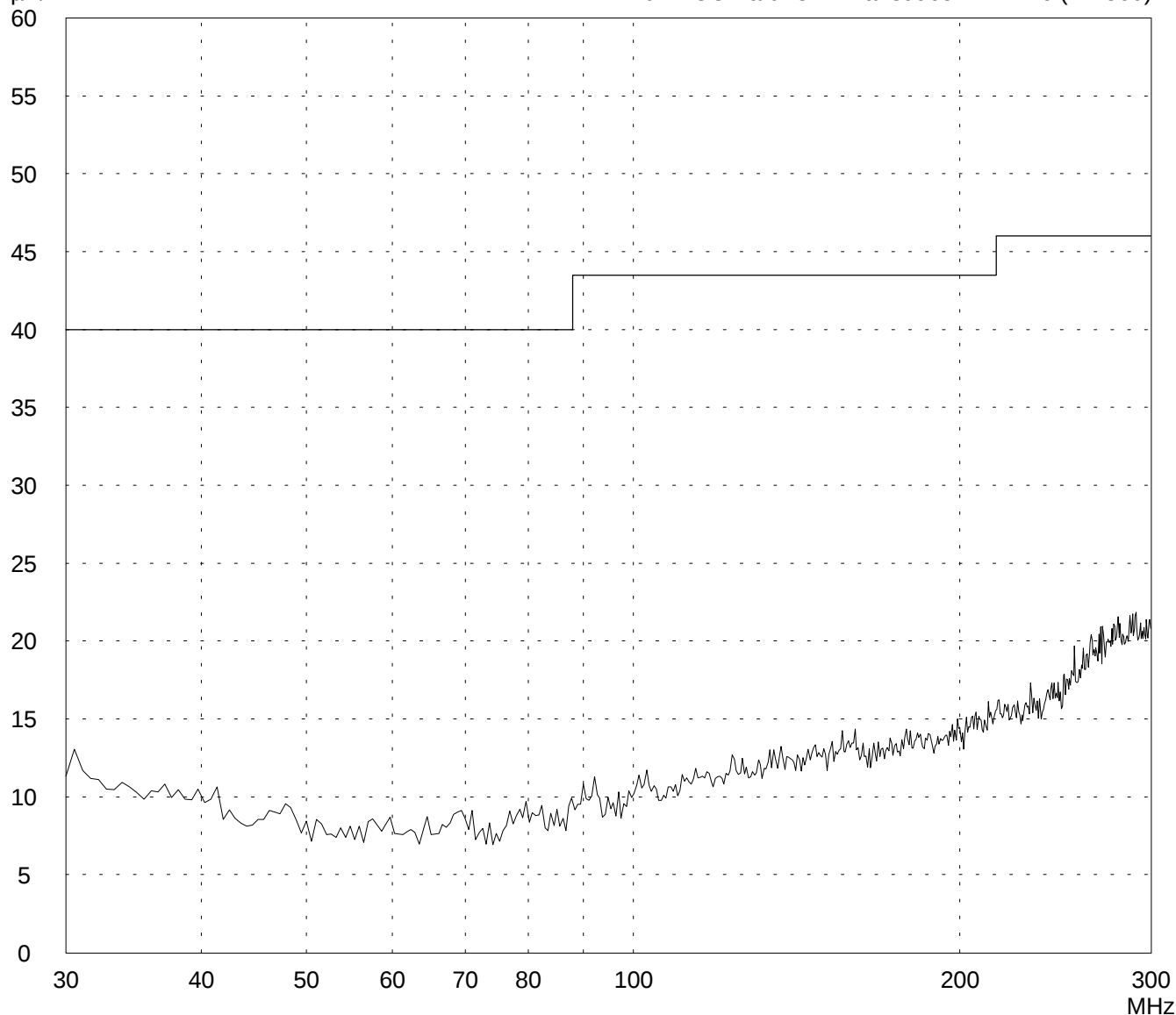
List of values:

10 dB Margin

50 Subranges

$\text{dB}\mu\text{V/m}$

Limit1: FCC Part 15 Transducer: HK 116 (A-1560)



Result:
Prescan

Project file:
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Radiated Emission Test 300 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model:
M500 (S4322D)

Serial no.:
sample 01

Applicant:
META System S.p.A.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test:
07/21/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

- 2 x 3 V lithium battery supply

- EUT in vertical position
- rotating y-Axis

- switching on continuously
- sending pulsed

Detector:
Peak

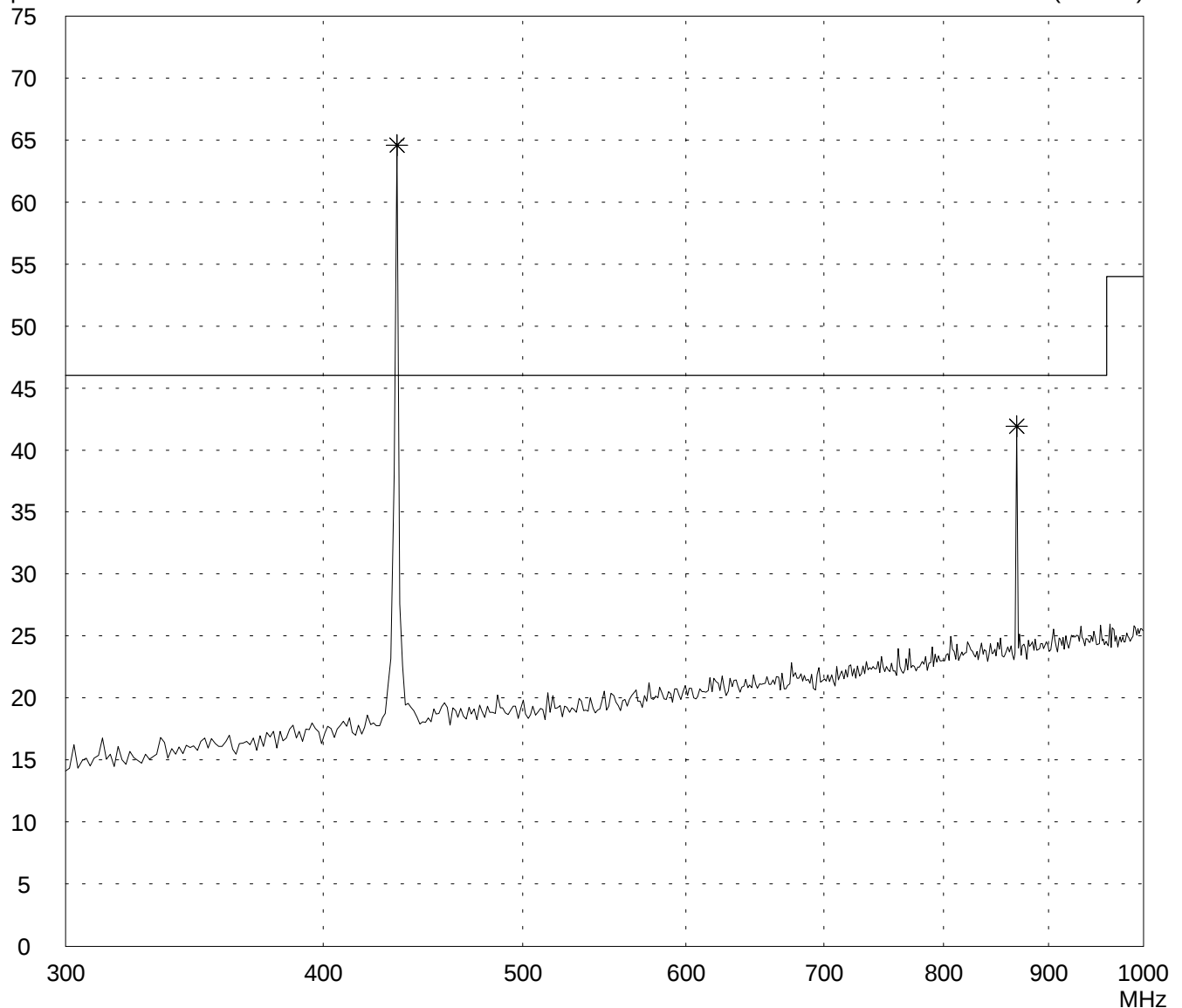
List of values:

10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Part 15 Transducer: EMCO 3147 (A-1009)



Result:
Prescan

Project file:
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Radiated Emission Test 300 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model:
M500 (S4322D)

Serial no.:
sample 01

Applicant:
META System S.p.A.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test:
07/21/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

- 2 x 3 V lithium battery supply
- EUT in vertical position
- rotating y-Axis
- switching on continuously
- sending pulsed

Detector:
Peak

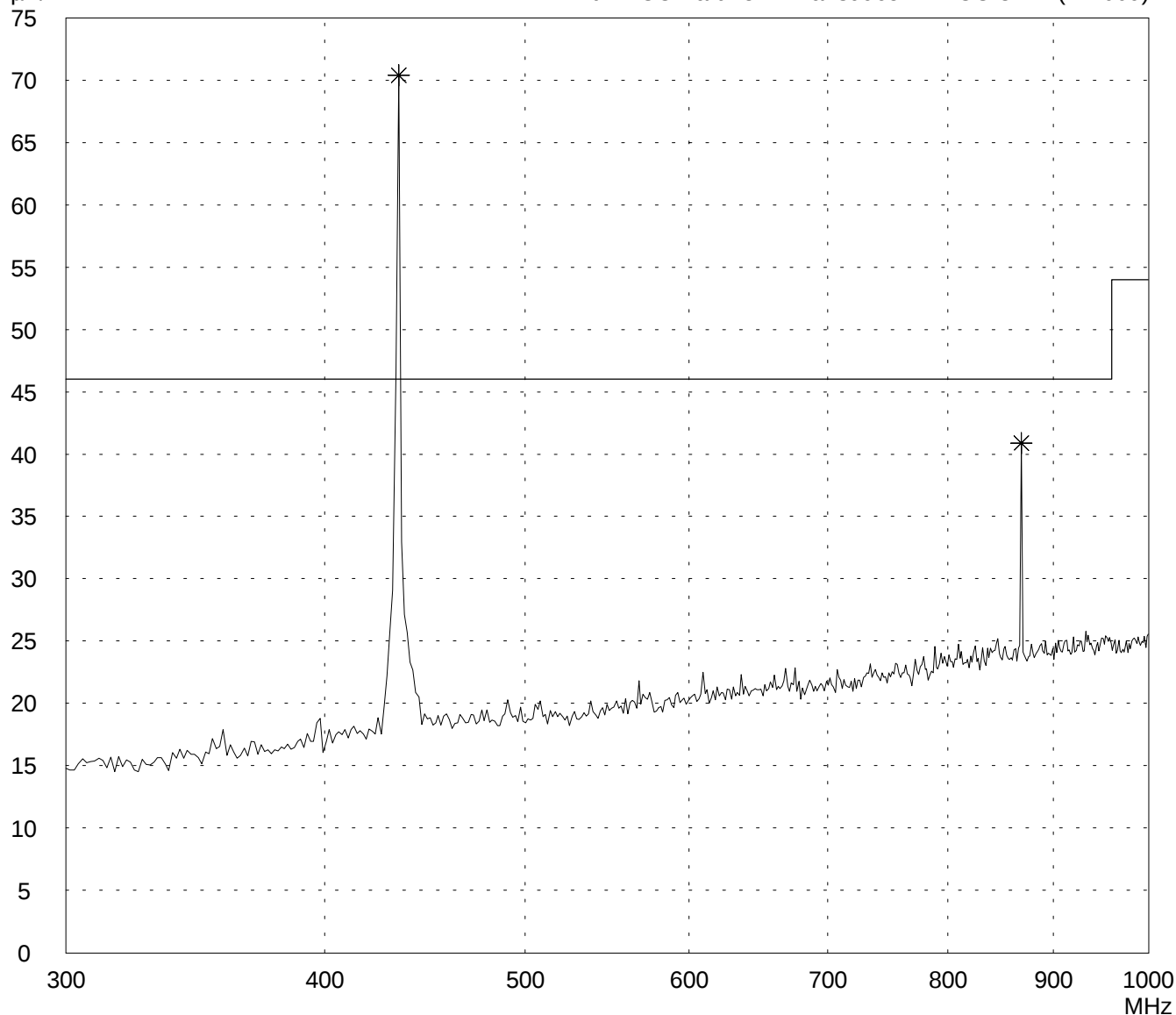
List of values:

10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Part 15 Transducer: EMCO 3147 (A-1009)



Result:
Prescan

Project file:
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Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test:
07/21/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

- 2 x 3 V lithium battery supply
- EUT in horizontal position
- rotating z-Axis
- switching on continuously
- sending pulsed

Detector:
Peak

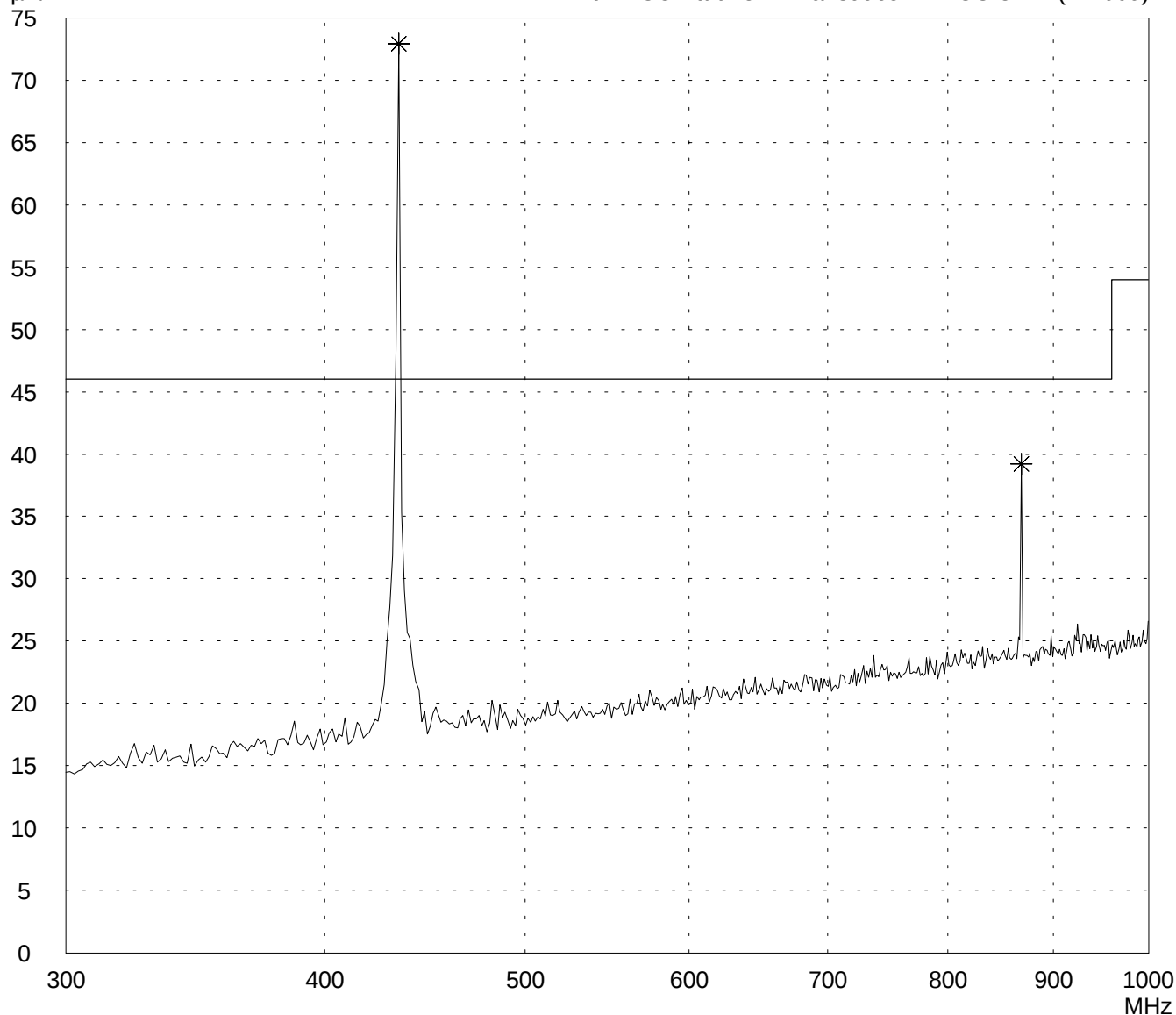
List of values:

10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Part 15 Transducer: EMCO 3147 (A-1009)



Result:
Prescan

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Tested on:
Test distance 3 metres
Vertical Polarization

Date of test:
07/21/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

- 2 x 3 V lithium battery supply
- EUT in horizontal position
- rotating z-Axis
- switching on continuously
- sending pulsed

Detector:
Peak

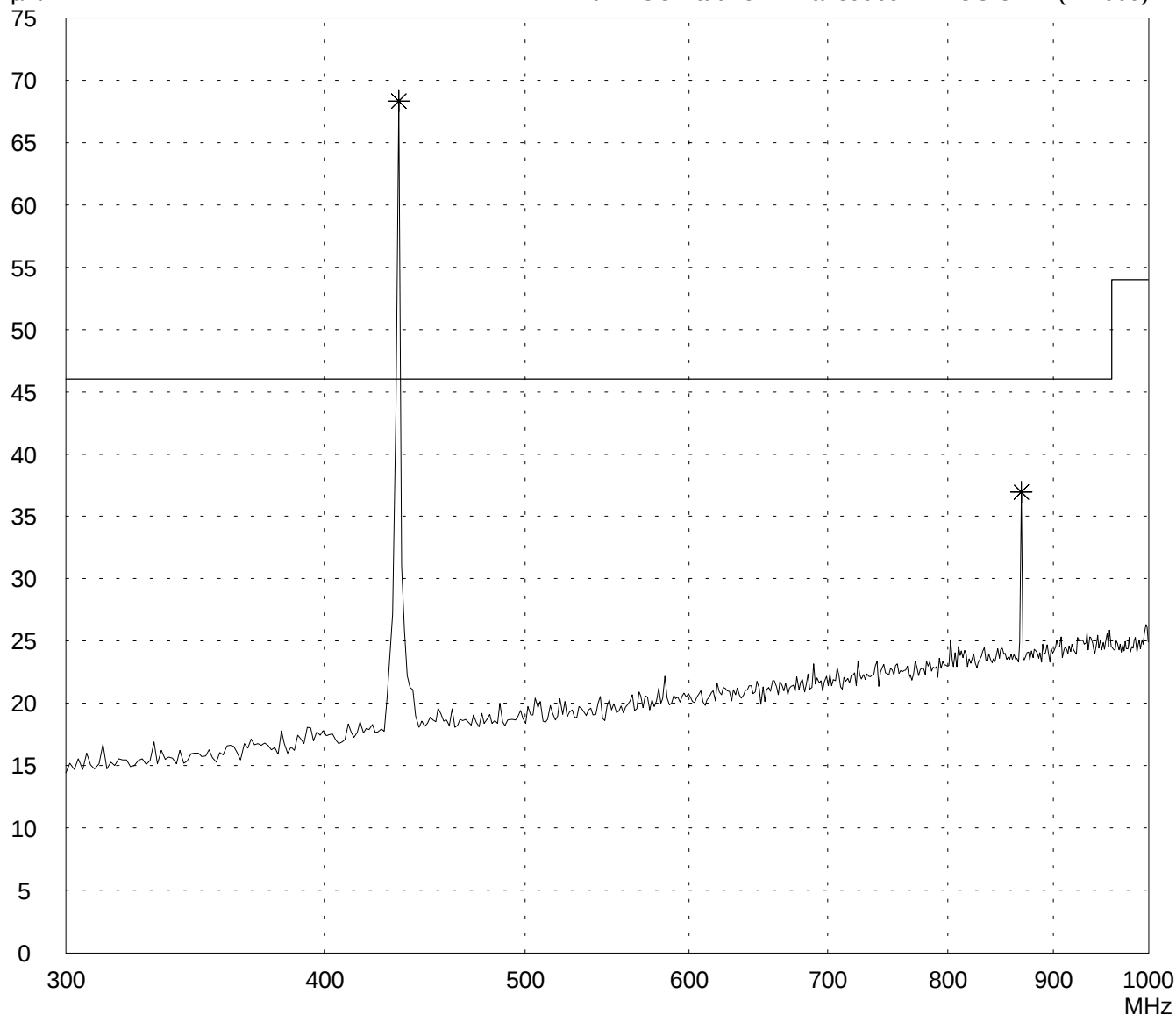
List of values:

10 dB Margin

50 Subranges

$\text{dB}\mu\text{V/m}$

Limit1: FCC Part 15 Transducer: EMCO 3147 (A-1009)



Result:
Prescan

Project file:
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Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test: 07/21/2003 Operator: M. Steindl

Test performed: automatically File name: default.emi

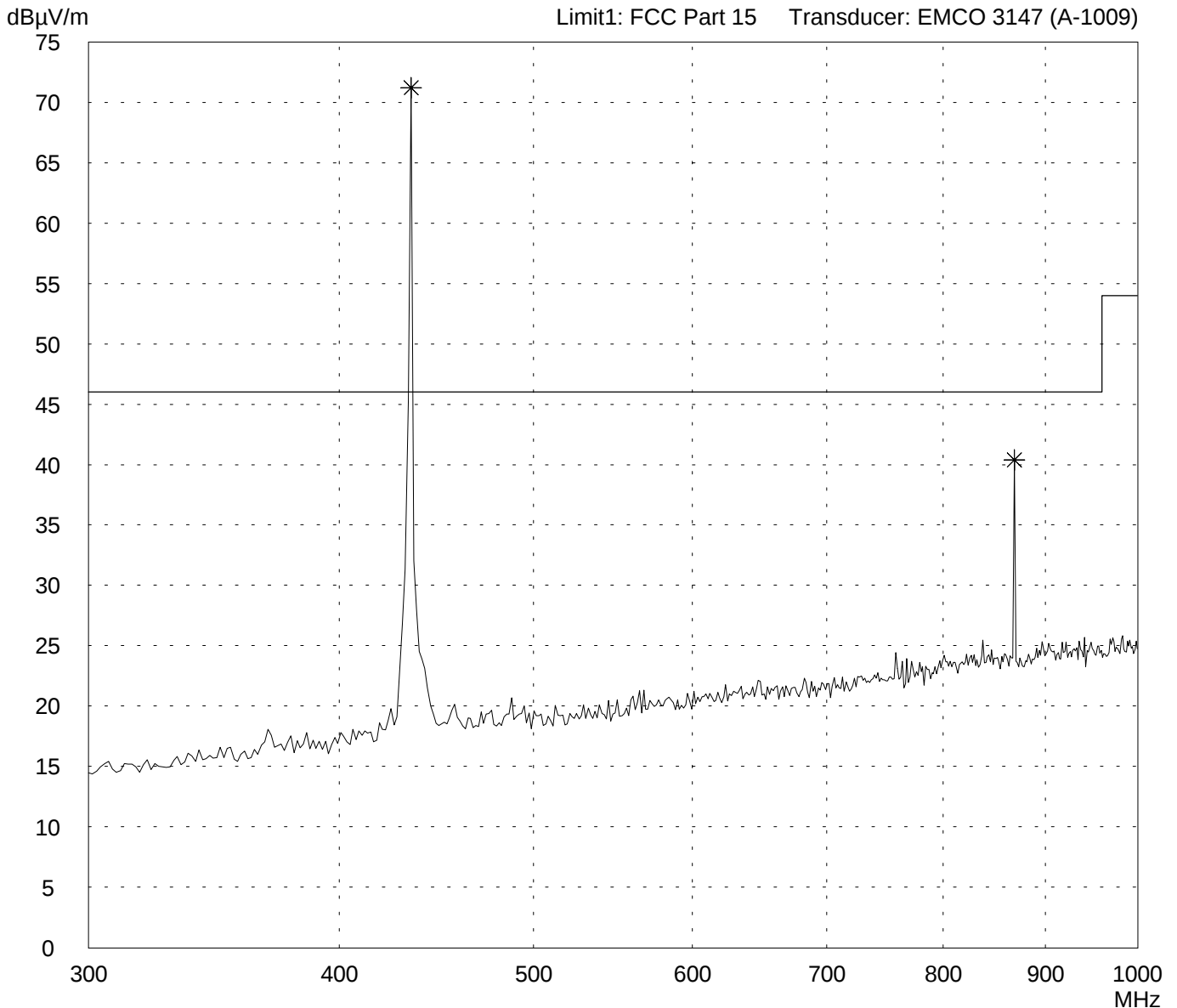
Comment:
- 2 x 3 V lithium battery supply

- EUT in horizontal position
- rotating x-Axis

- switching on continuously
- sending pulsed

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



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Tested on:
Test distance 3 metres
Vertical Polarization

Date of test: 07/21/2003 Operator: M. Steindl

Test performed: automatically File name: default.emi

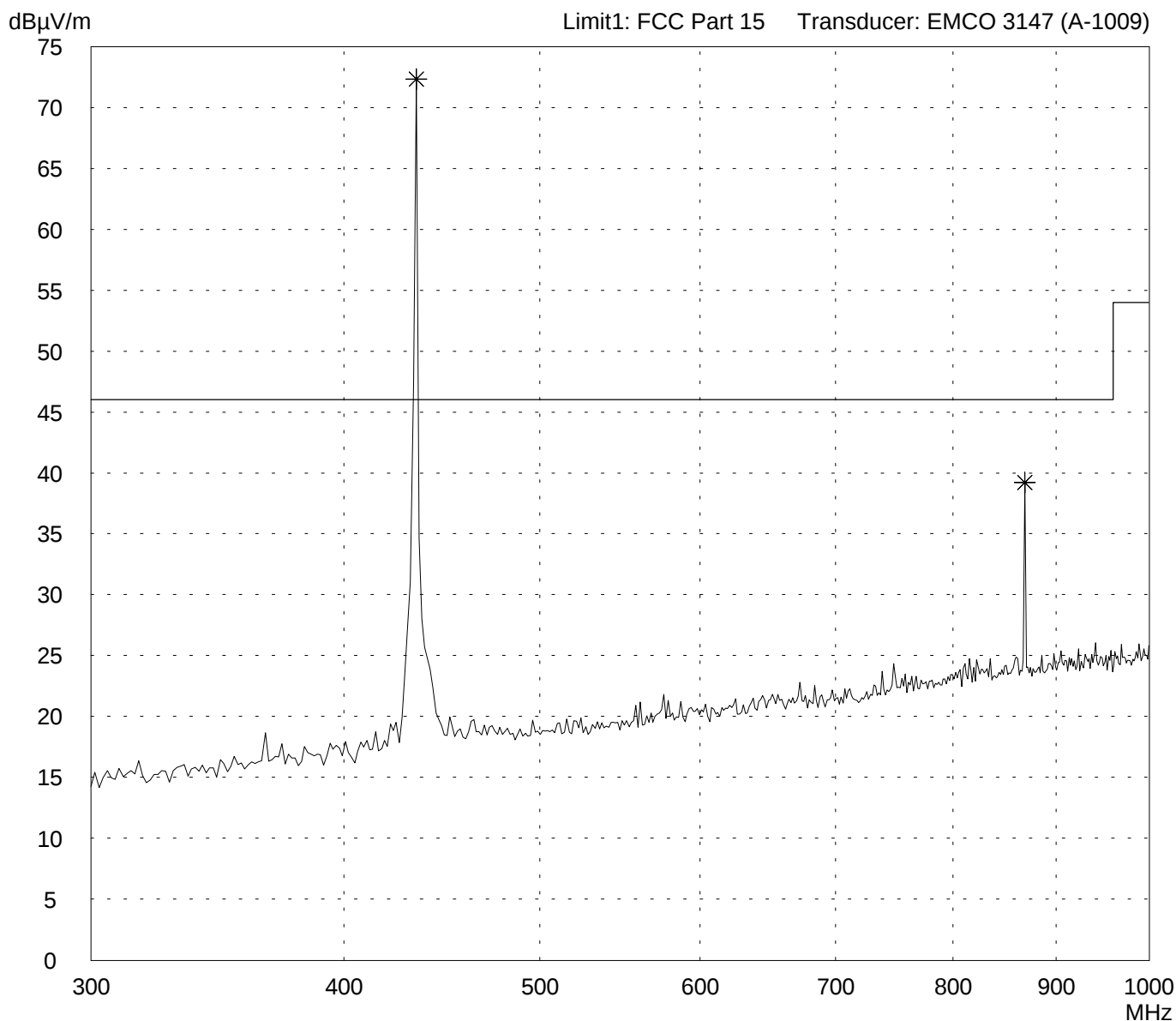
Comment:
- 2 x 3 V lithium battery supply

- EUT in horizontal position
- rotating x-Axis

- switching on continuously
- sending pulsed

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Prescan

Project file:
55106-30436

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Radiated Emission Test 1 GHz - 4.4 GHz acc. to FCC Part 15 (EMCO 3115)

Model:
M500 (S4322D)

Serial no.:
sample 01

Applicant:
Meta System S. p. A.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test: 12/08/2003 Operator: M. Steindl

Test performed: automatically File name: default.emi

Comment:

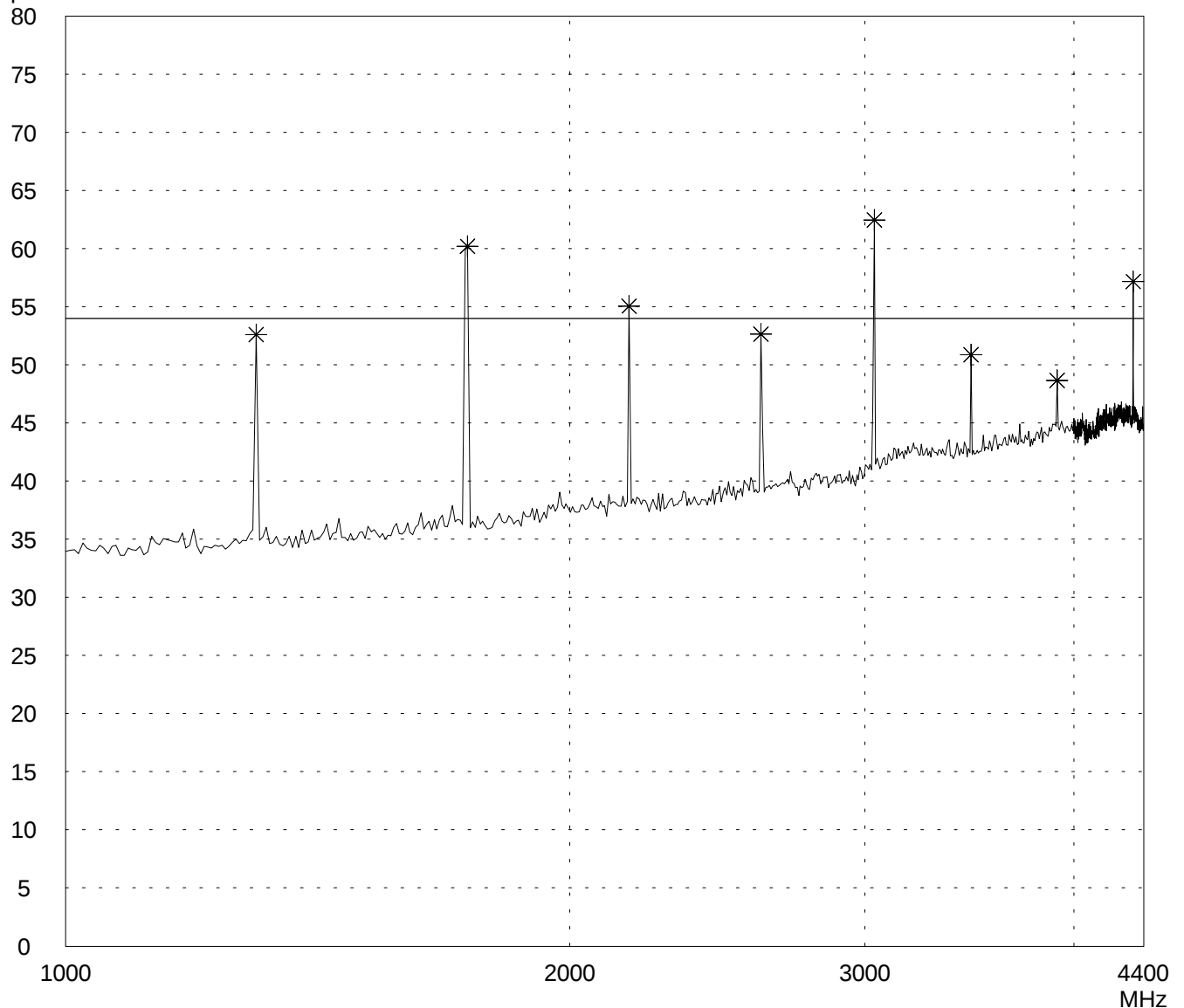
- 2 x 3 V lithium battery supply
- EUT flat on table
- switching on continuously
- transmitting pulsed
- Note: with WHKS1000-10SS high pass filter

Detector:
Peak

List of values:
Selected by hand

dB μ V/m

Limit1: FCC Part 15 Transducer: EMCO 3115



Result:
Prescan

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Vertical Polarization

Date of test:
12/08/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

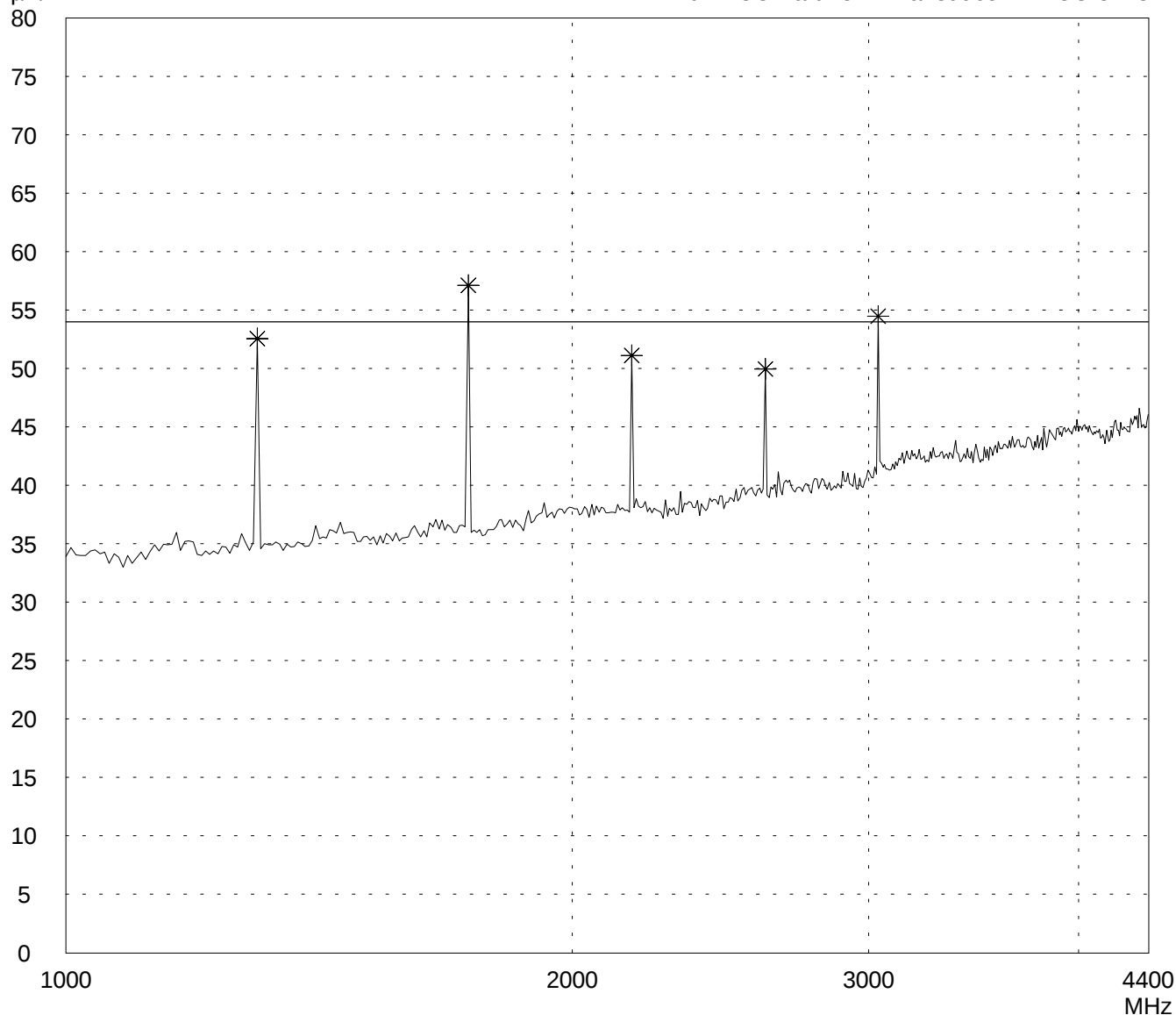
- 2 x 3 V lithium battery supply
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- Note: with WHKS1000-10SS high pass filter

Detector:
Peak

List of values:
Selected by hand

$\text{dB}\mu\text{V/m}$

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Horizontal Polarization

Date of test:
12/08/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

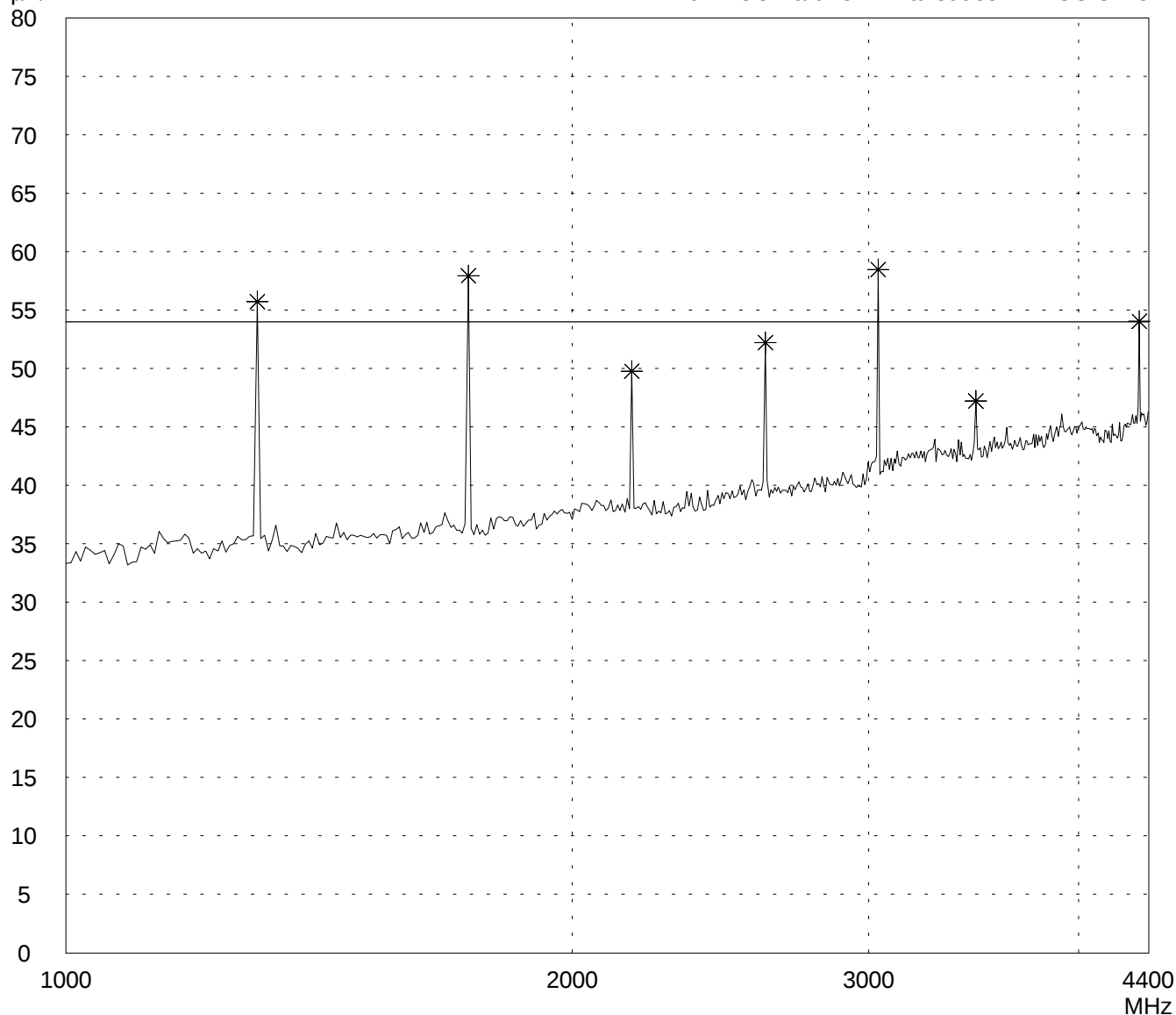
- 2 x 3 V lithium battery supply
- EUT on long side
- switching on continuously
- transmitting pulsed
- Note: with WHKS1000-10SS high pass filter

Detector:
Peak

List of values:
Selected by hand

dB μ V/m

Limit1: FCC Part 15 Transducer: EMCO 3115



Result:
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Date of test: 12/08/2003 Operator: M. Steindl

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Comment:

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- EUT on long side

- switching on continuously
- transmitting pulsed

- Note: with WHKS1000-10SS high pass filter

Detector:
Peak

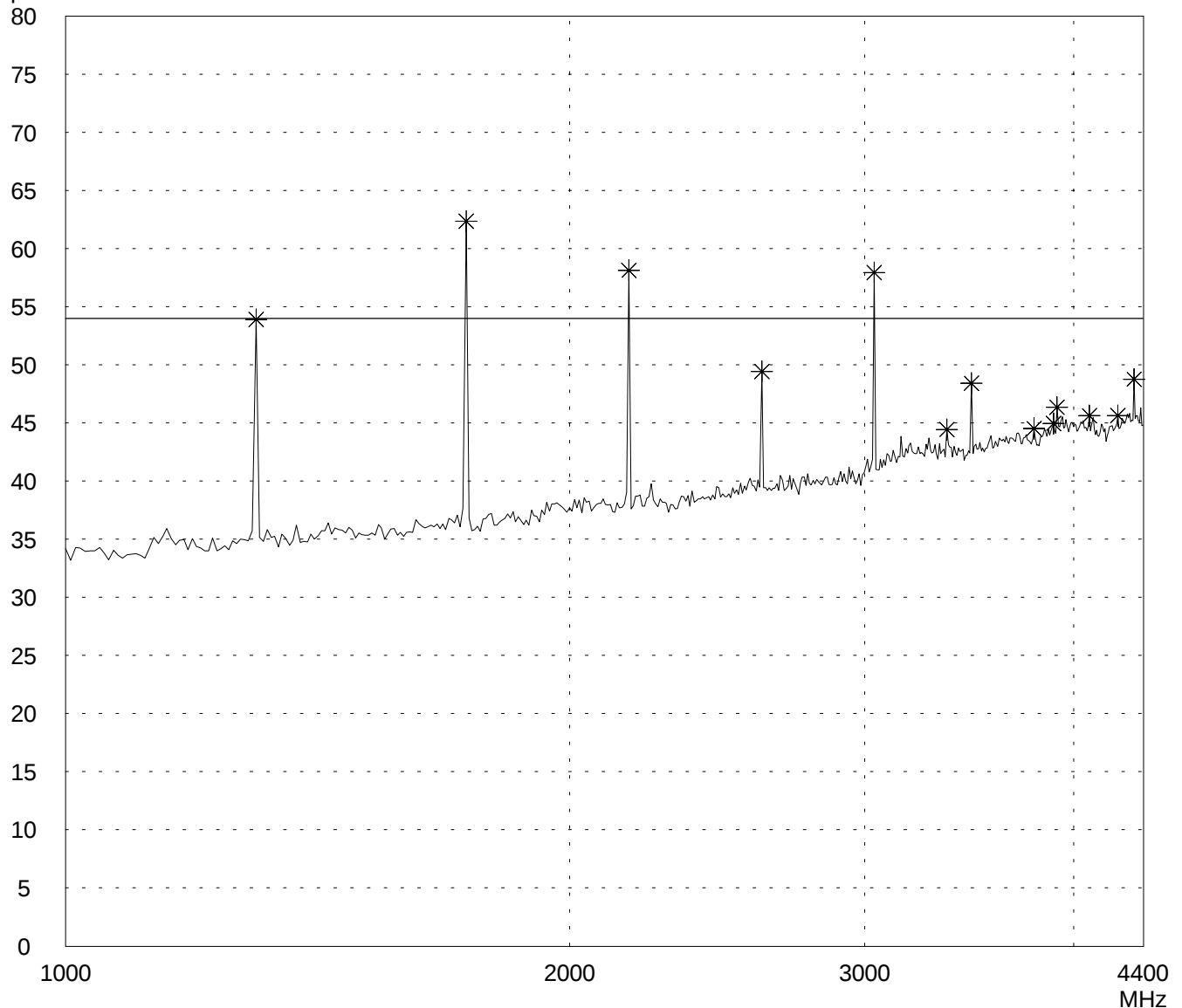
List of values:

10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC Part 15 Transducer: EMCO 3115



Result:
Prescan

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Test distance 3 metres
Horizontal Polarization

Date of test:
12/08/2003

Operator:
M. Steindl

Test performed:
automatically

File name:
default.emi

Comment:

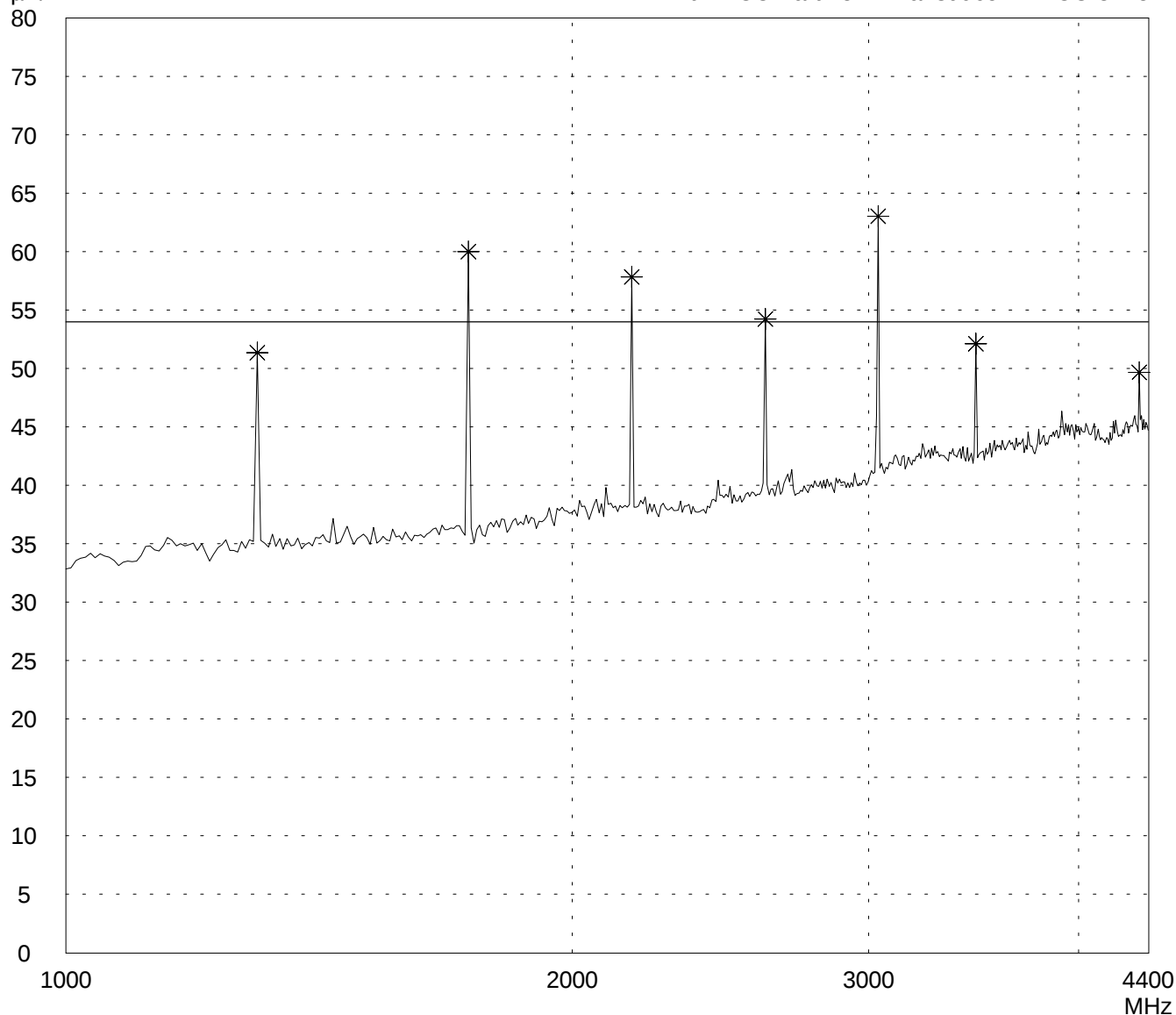
- 2 x 3 V lithium battery supply
- EUT in upright position
- switching on continuously
- transmitting pulsed
- Note: with WHKS1000-10SS high pass filter

Detector:
Peak

List of values:
Selected by hand

$\text{dB}\mu\text{V/m}$

Limit1: FCC Part 15 Transducer: EMCO 3115



Result:
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automatically

File name:
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Comment:

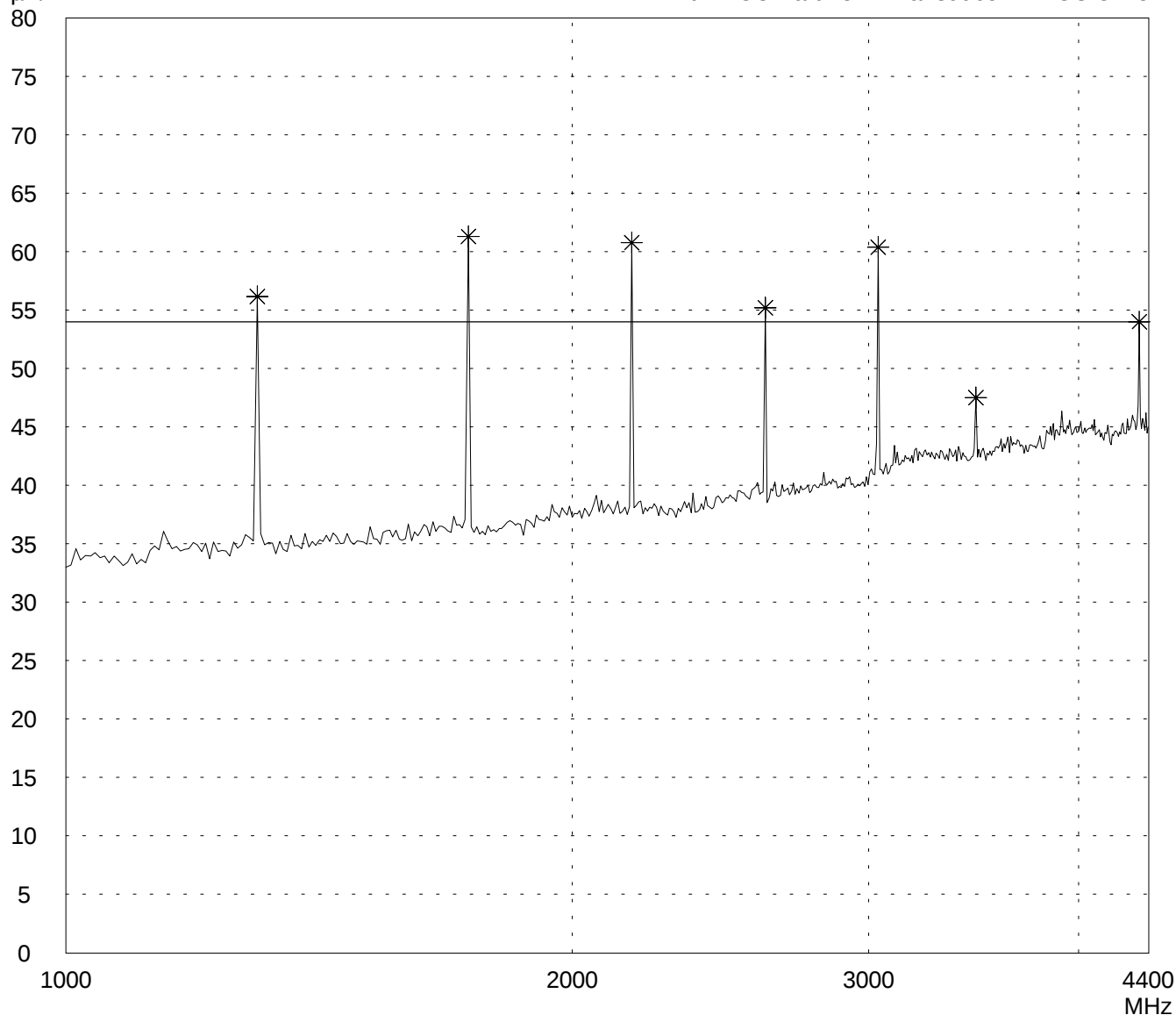
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