

Straubing, 30 March 2004

TEST - REPORT

No. 56502-40186

for

Remotus BC 7418

UHF Handheld Transmitter

Applicant: Akerströms Björbo AB

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

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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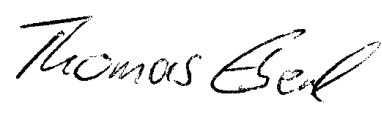
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1. Administrative Data

Test item (EUT)	
Type designation	Remotus BC 7418
Serial number(s):	92 6116-0864
Type of equipment:	UHF Handheld Transmitter
Parts/accessories:	
FCC-ID:	OG4BC7418
Technical data	
Frequency range	433.050 MHz - 434.790 MHz
Operational frequency	434.650 MHz
Type of modulation	10K0F1D
Pulse frequency	N/A
Pulse width	N/A
Antenna	Integrated
Power supply	Battery 3.7 V
Applicant: (full address)	
Contract identification:	---
Contact person:	Mr. Bernt Eriksson
Manufacturer:	Akerströms Björbo AB
Application details	
Receipt of EUT:	22.March 2004
Date of test:	22. - 26 March 2004
Note:	
Responsible for testing:	Thomas Eberl
Responsible for test report:	Thomas Eberl

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 062/94-01
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	
LABORATORY MANAGER:	 Mr. Johann Roidt
RESPONSIBLE FOR TESTING:	 Mr. Thomas Eberl
RESPONSIBLE FOR TEST REPORT:	Mr. Thomas Eberl

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

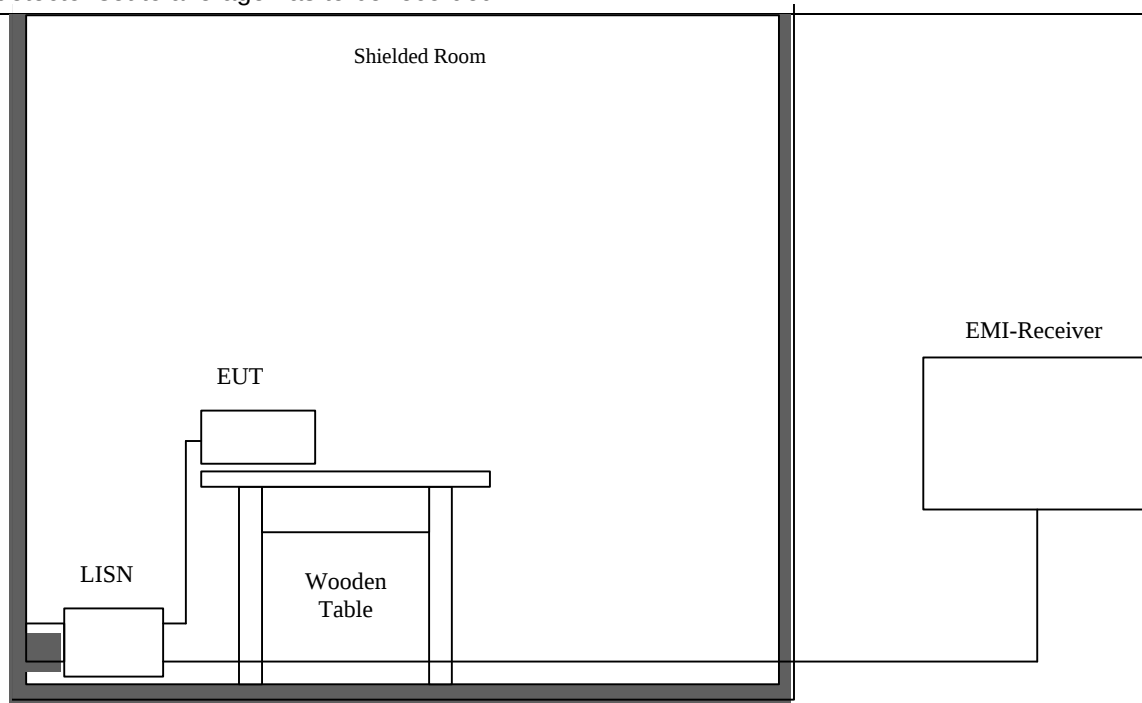
5. Measuring Methods

5.1. 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

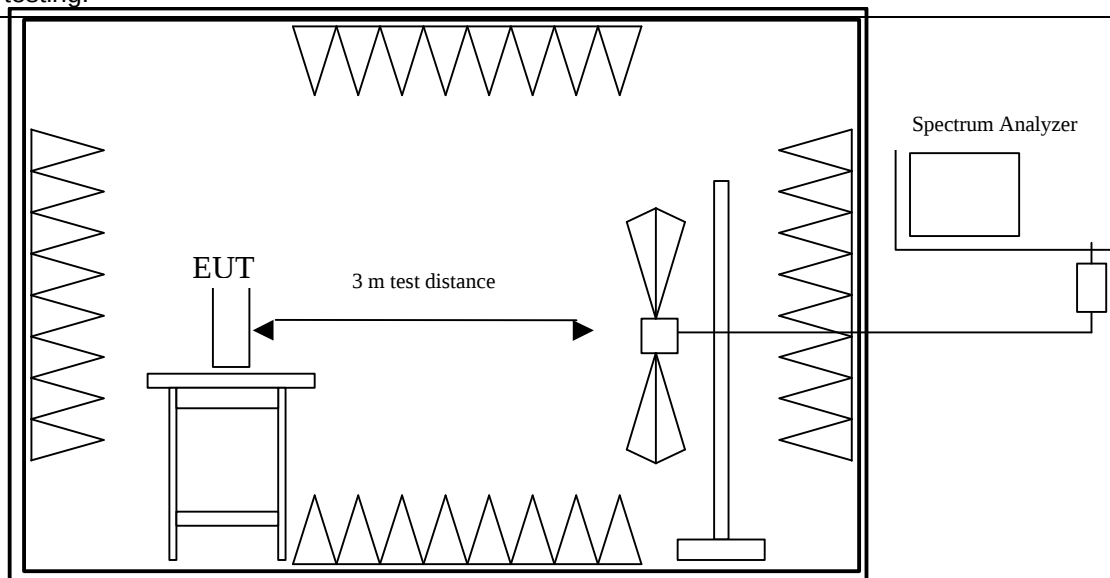
5.2. Field Strength of Emissions, Prescans in a fully-anechoic room (30 MHz – 1 GHz)

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 1 GHz.

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.



Fully anechoic chamber

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

5.3. Fieldstrength of Emissions, Measurement at Open Area Test Site (30 MHz – 1 GHz)

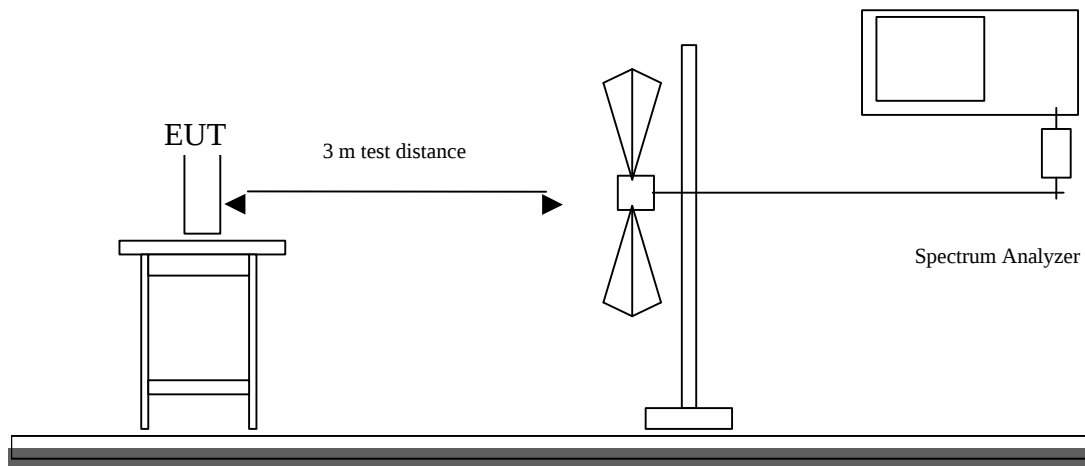
Rules and Specifications:	Sections 15.109 & 15.231
Guide:	ANSI C63.4 1997

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 1 GHz.

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 raised 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

5.4. Fieldstrength of Emissions above 1 GHz

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

Measurement Procedure:

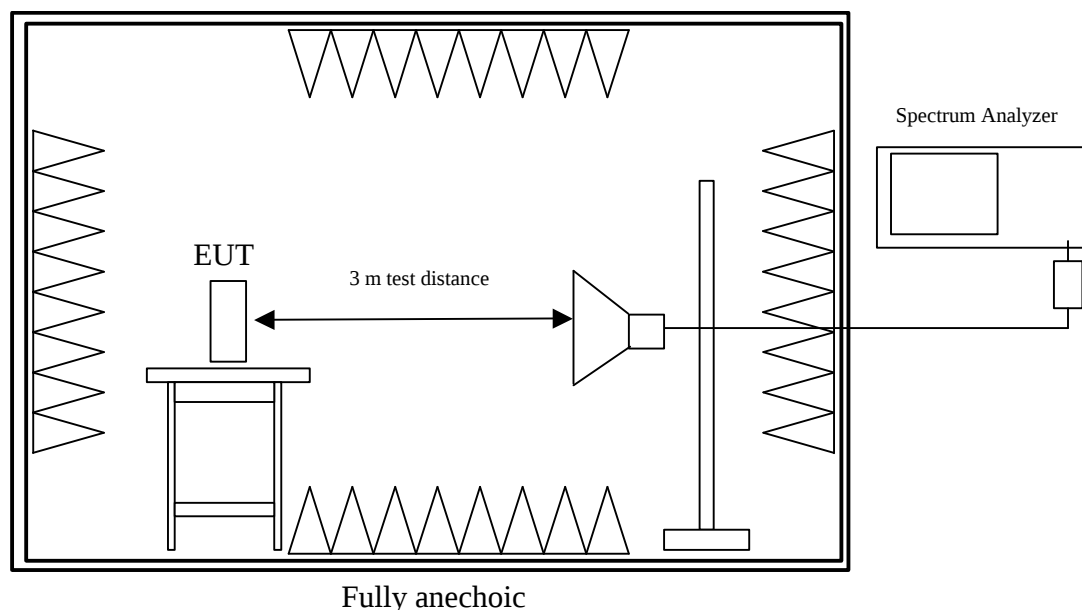
Radiated emissions are measured in the frequency range 1 GHz to the 10th harmonic of the maximum frequency of the EUT.

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).



Test instruments used:

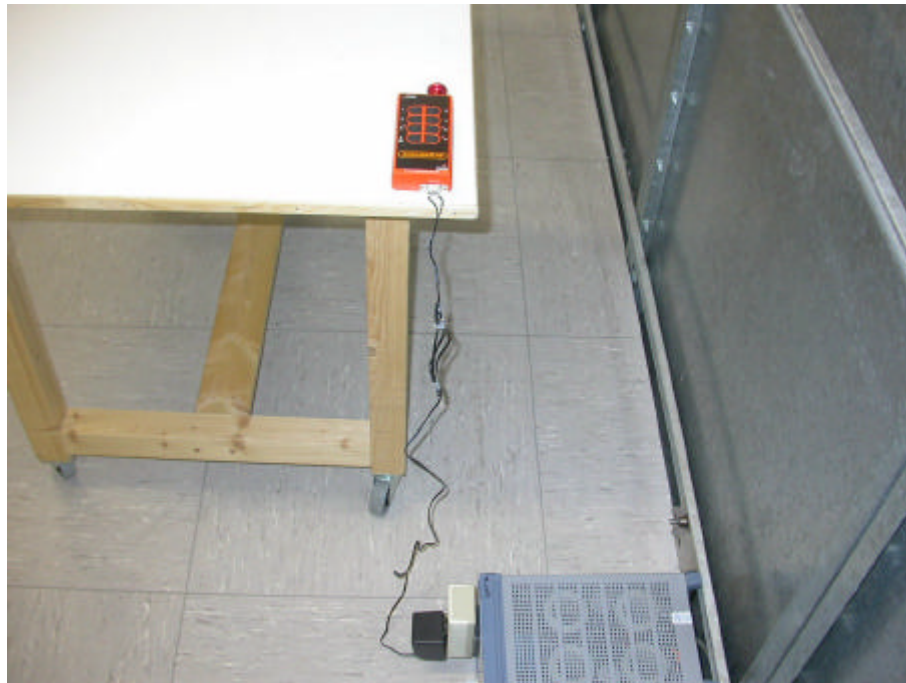
No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
145	Horn antenna	3115	9508-4553	EMCO
146	Horn antenna set	3160-03/-09	9112-1003	EMCO
114	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
115	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
003	Fully anechoic room	No. 2	1452	Albatross Projects

6. Photographs Taken During Testing

Test setup for conducted emission measurement



Test setup for conducted emission measurement



Test setup for radiated emission measurement (fully anechoic room)



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



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



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



7. List of Measurements

FCC Part 15		
Section(s):	Test	Result
15.205 15.207 15.231 (a) (1) 15.231 (b) 15.231 (b) 15.231 (c)		
	Restricted Bands	Pass
	AC powerline emissions	Pass
	Periodic operation	Pass
	Duty Cycle Correction	Not aplicable
	Field strength of emissions	Pass
	Bandwidth of emissions	Pass

AC powerline emissions

Rules and Specifications:	15.107, 15.207		
Guide:	CISPR 22		
Limit:	Frequency of Emission (MHz)	Conducted Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5 0.5 – 5 5 - 30	66 to 56 56 60	56 to 46 46 50

Test Site:	Radio Lab.
Distance:	Conducted Measurement

Frequency (MHz)	Detector	Analyzer Reading (dBμV)	Correction Factor (dB)	Final Value (dBμV)	Limit (dBμV)	Margin (dB)
0.150	QP	42.7	0	42.7	66.0	-23.3
0.190	QP	41.4	0	41.4	64.0	-22.6
0.235	QP	39.7	0	39.7	62.3	-22.6
0.285	QP	38.0	0	38.0	60.7	-22.7
0.360	QP	36.3	0	36.3	58.7	-22.4
0.445	QP	35.1	0	35.1	57.0	-21.9
0.535	QP	34.3	0	34.3	56.0	-21.7
0.670	QP	32.9	0	32.9	56.0	-23.1

*** = 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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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)
434.65	PK	horizontal	60	19.50	0	79.50	80.85	-1.3
869.30	QP	horizontal	6.50	27.30	0	33.80	60.85	-27.1
1301.00	PK	horizontal	6.63	27.82	0	34.45	60.85	-26.4
3478.00	PK	horizontal	8.93	35.86	0	44.79	60.85	-16.1
3912.00	PK	horizontal	8.55	37.11	0	45.66	60.85	-15.2

*** = 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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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)

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

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

Test Results:	Pass
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Comment A: Ak40186 OBW
Date: 1.APR.2004 16:23:13

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

Charts taken during testing

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

Model:
BC74XX

Serial no.:
#1

Applicant:
Akerströms Björbo AB

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord Charger
Phase L1

Date of test:
04/14/2004

Operator:
T. Eberl

Test performed:
automatically

File name:

Mode:
- Charging mode

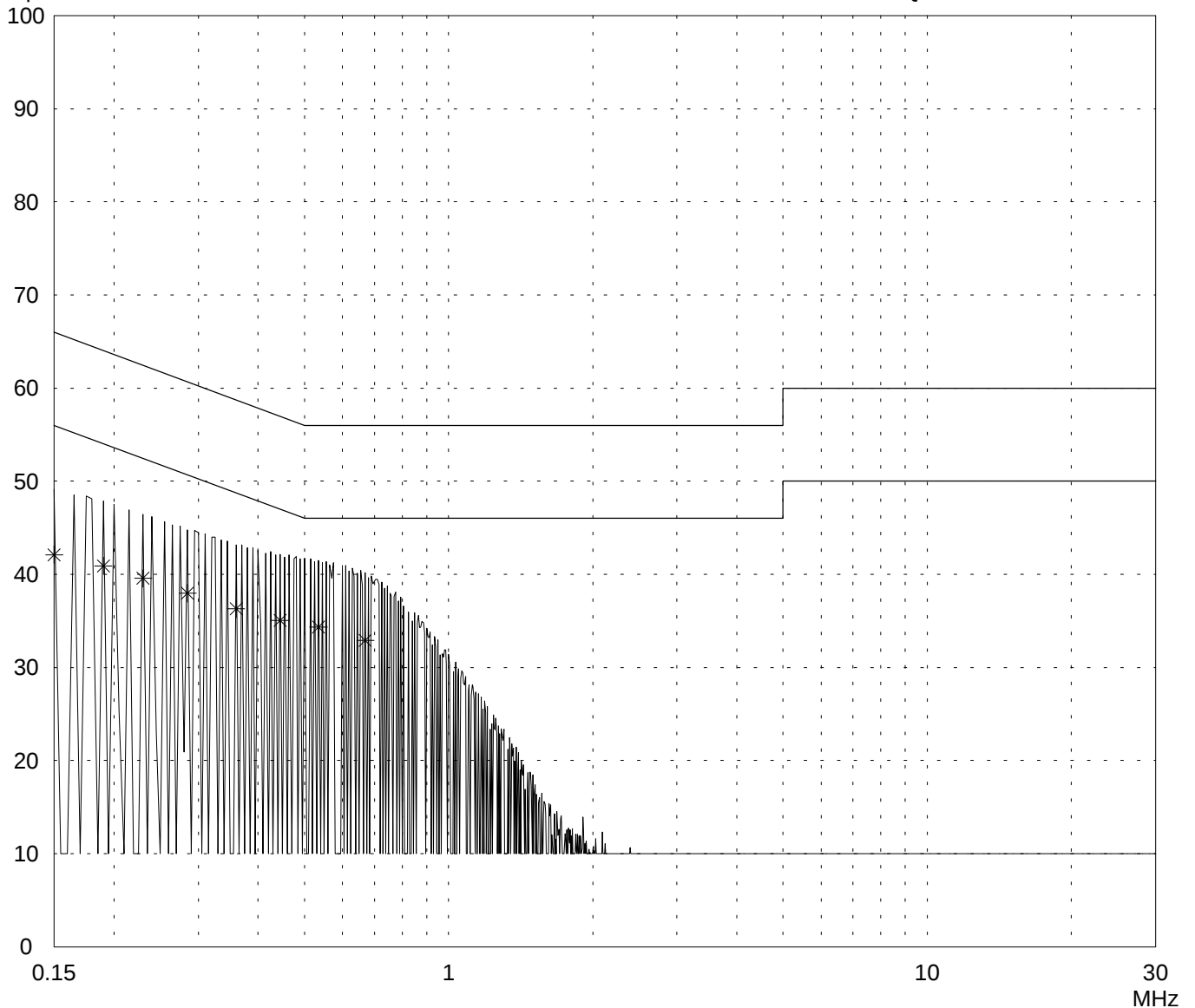
Detector:
Peak / Final Results: QP

Final results:
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC B / QP Limit2: FCC B / AV



Result:
Limit kept

Project file:
56502-40186

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

Model:
BC74XX

Serial no.:
#1

Applicant:
Akerströms Björbo AB

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord Charger
Phase L1

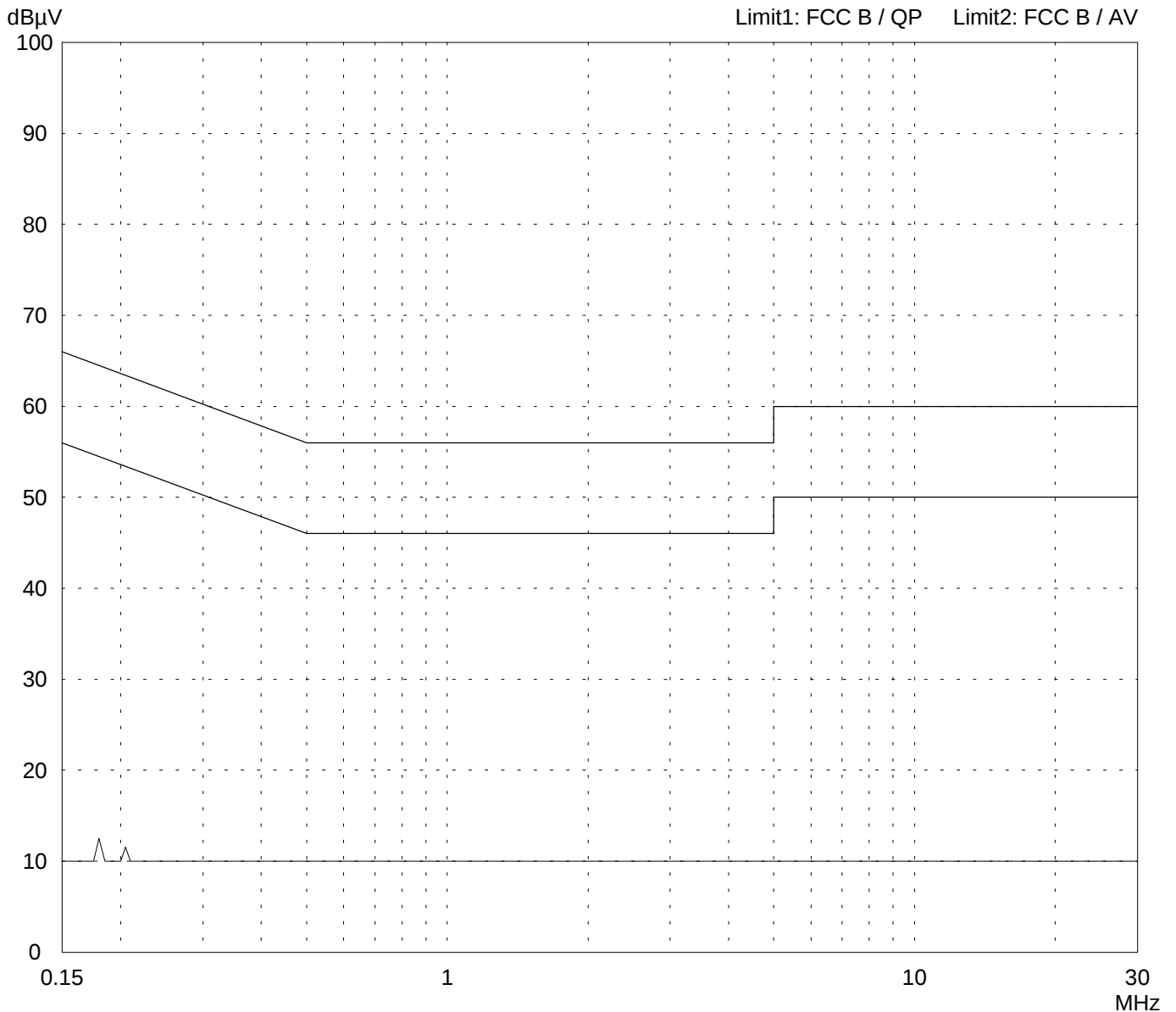
Date of test: 04/14/2004
Operator: T. Eberl

Test performed: automatically
File name:

Mode:
- Charging mode

Detector:
Average / Final Results: AV

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

Project file:
56502-40186

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

Model:
BC74XX

Serial no.:
#1

Applicant:
Akerströms Björbo AB

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord Charger
Phase N

Date of test:
04/14/2004

Operator:
T. Eberl

Test performed:
automatically

File name:

Mode:
- Charging mode

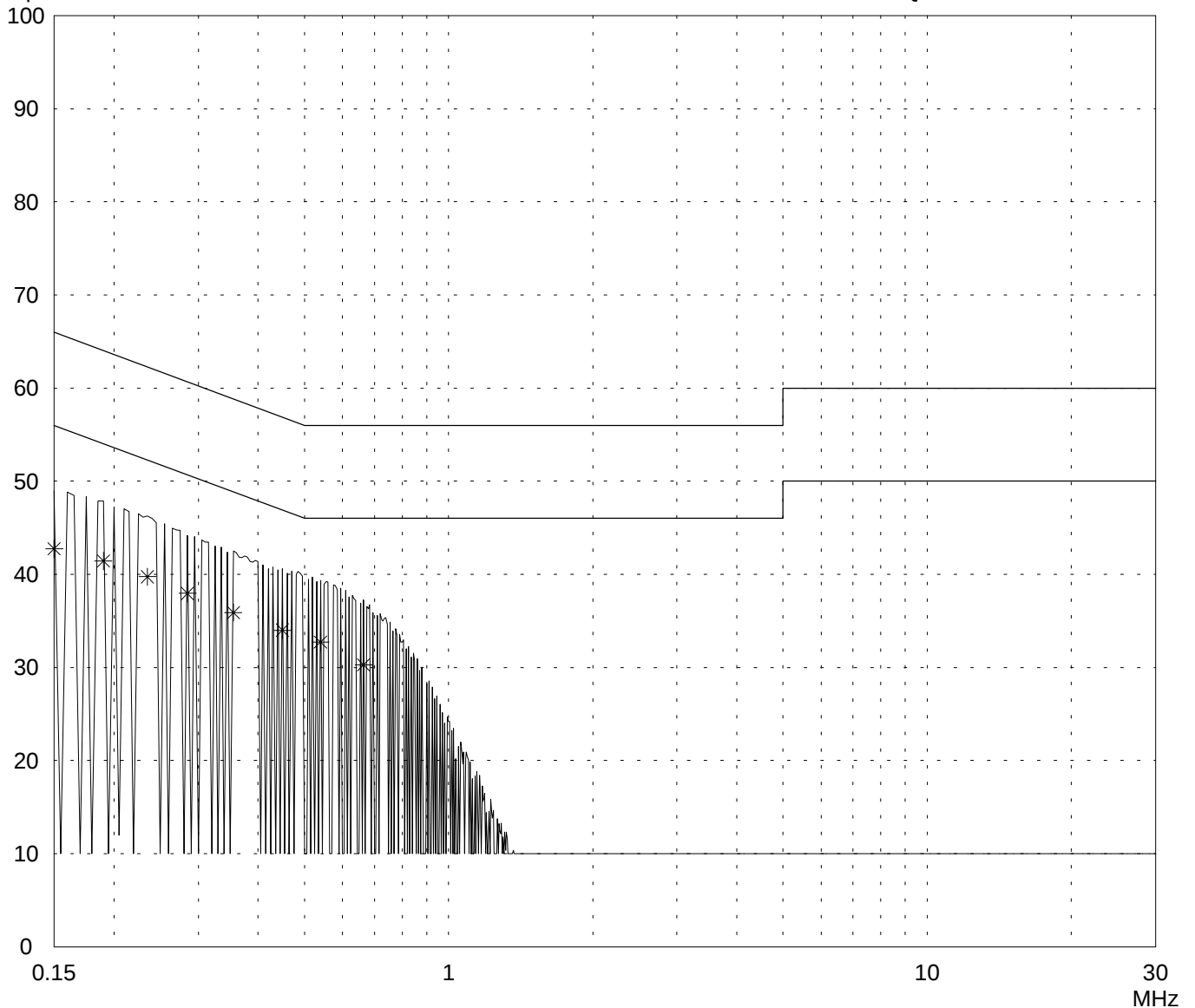
Detector:
Peak / Final Results: QP

Final results:
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC B / QP Limit2: FCC B / AV



Result:
Limit kept

Project file:
56502-40186

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

Model:
BC74XX

Serial no.:
#1

Applicant:
Akerströms Björbo AB

Test site:
Shielded room, cabin no. 2

Tested on:
Linecord Charger
Phase N

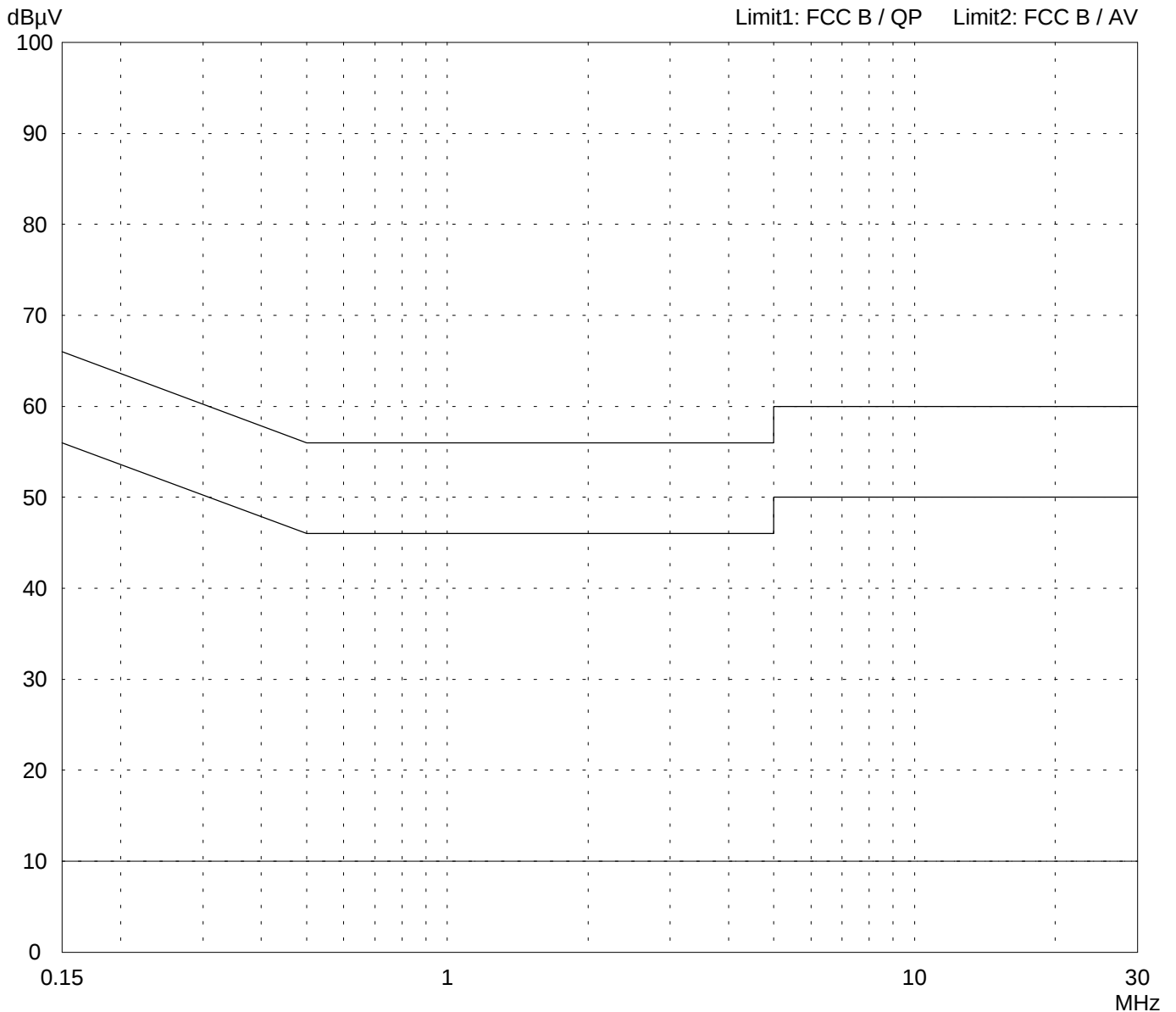
Date of test: 04/14/2004 Operator: T. Eberl

Test performed: automatically File name:

Mode:
- Charging mode

Detector:
Average / Final Results: AV

Final results:
20 dB Margin 25 Subranges



Result:
Limit kept

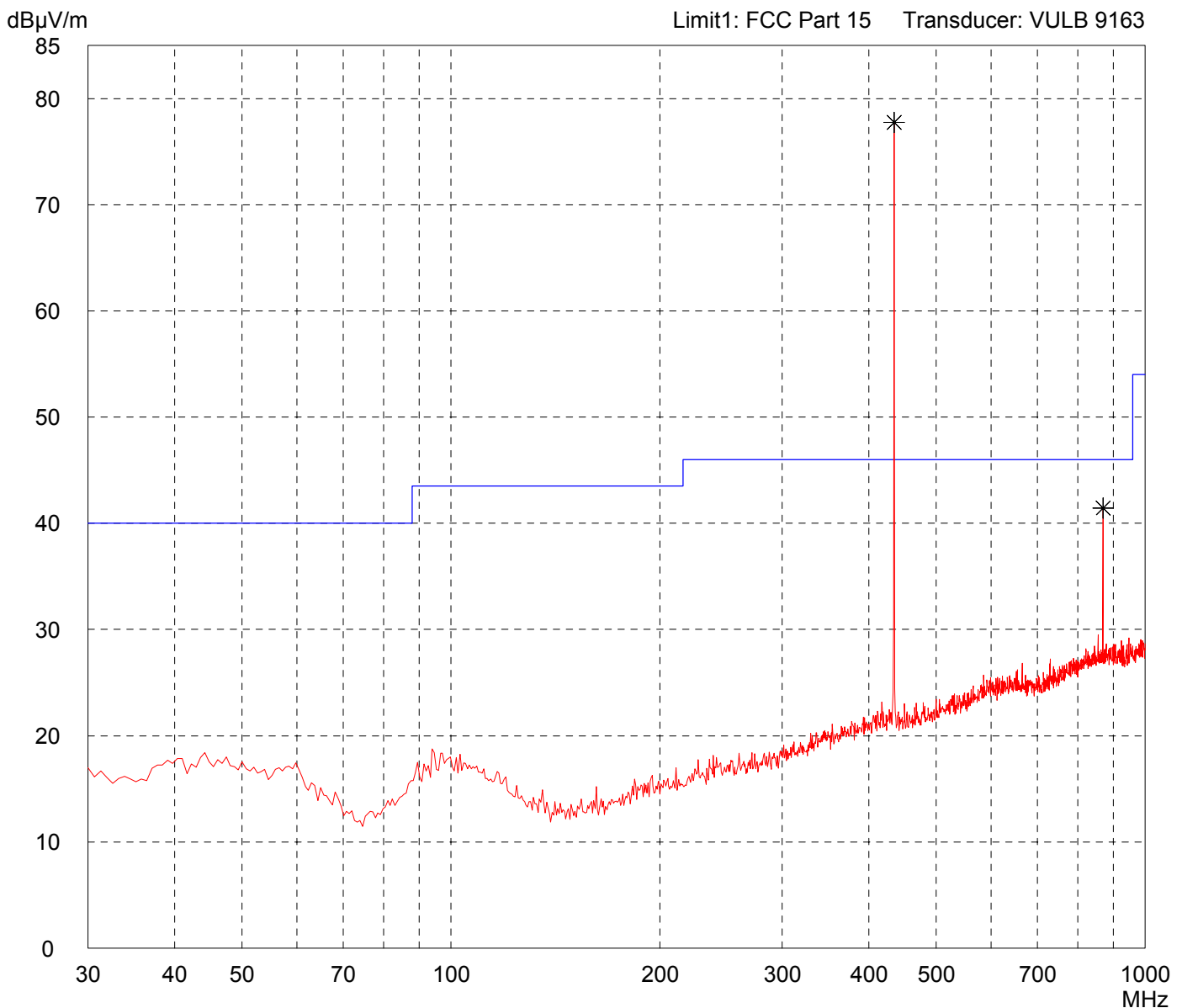
Project file:
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Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: BC74XX	Comment: - TX mode - EUT in horizontal position - rear side on table (1)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

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

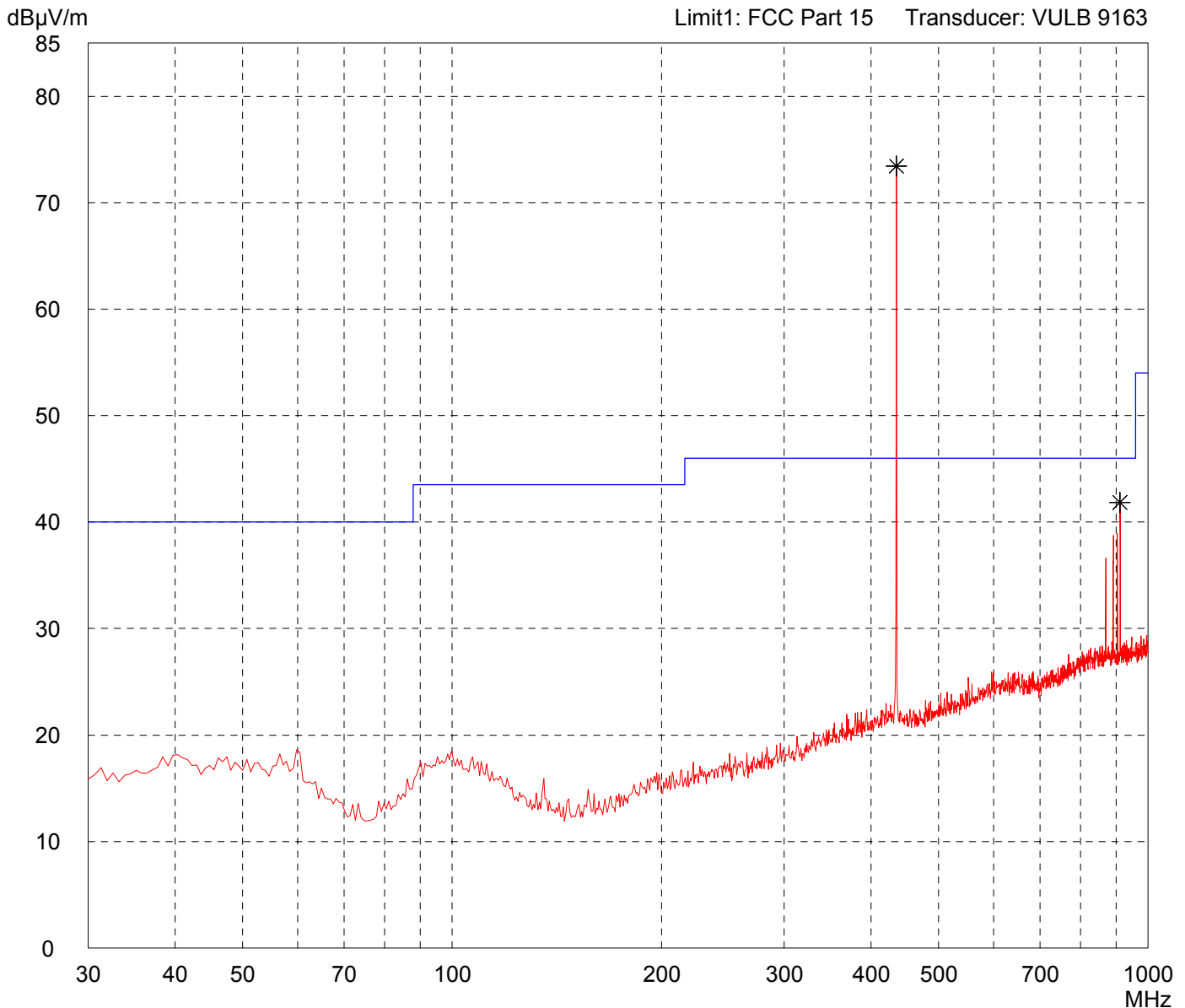


Result: Prescan	Project file: 56502-40186
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Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: BC74XX	Comment: - TX mode - EUT in horizontal position -right side on table (2)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 8 Subranges
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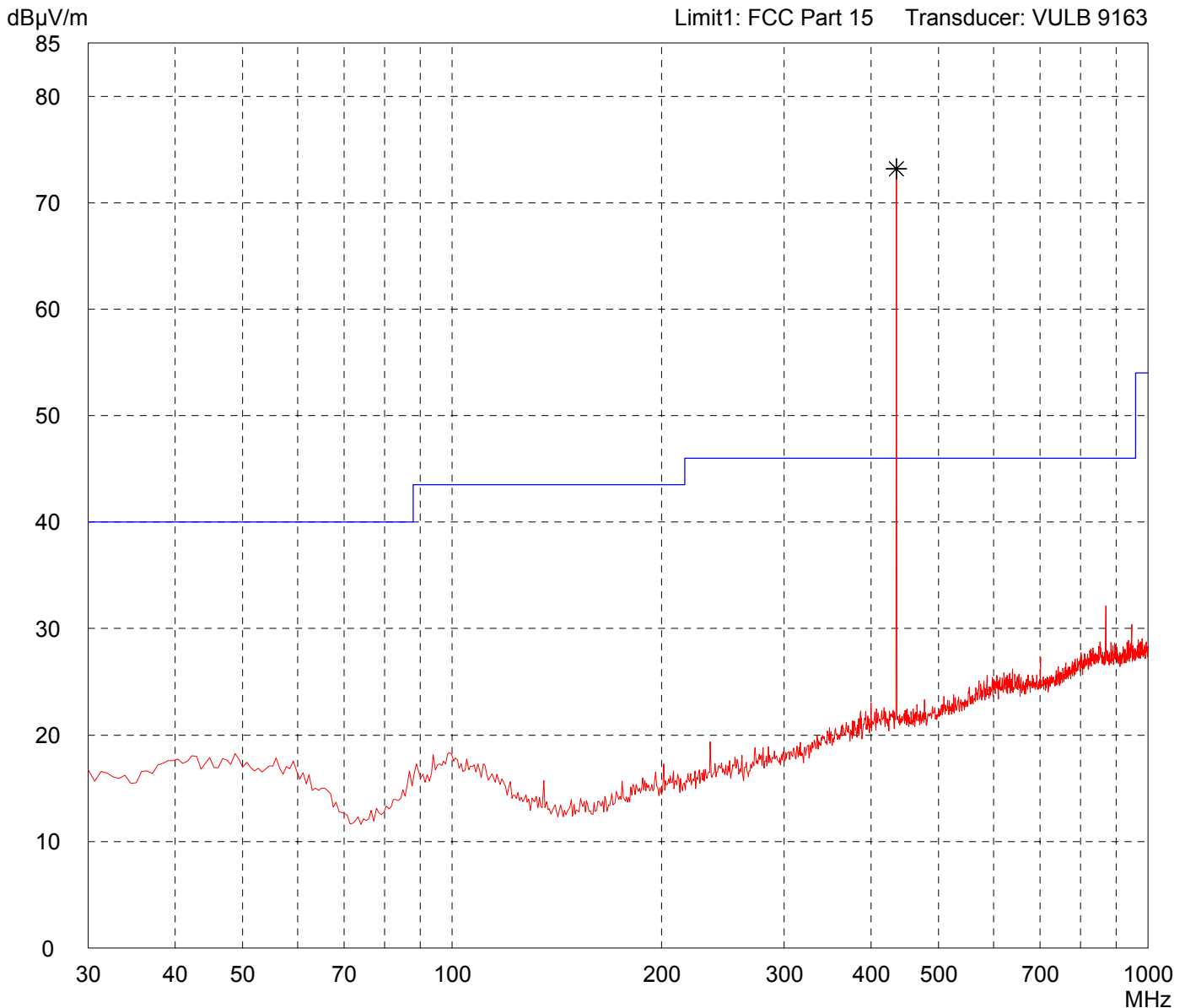


Result: Prescan	Project file: 56502-40186
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Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: BC74XX	Comment: - TX mode - EUT in vertical position (3)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

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

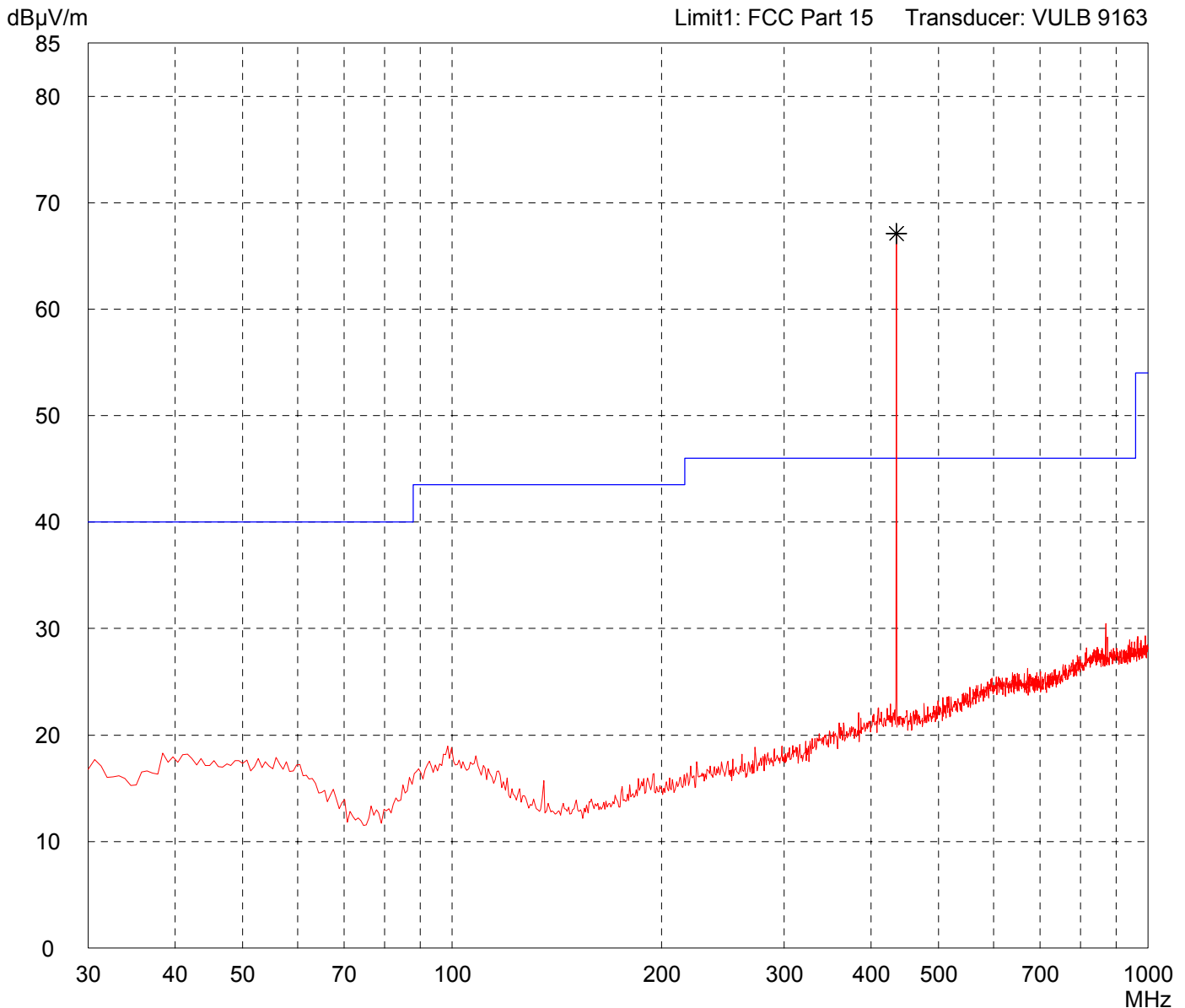


Result: Prescan	Project file: 56502-40186
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Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: BC74XX	Comment: - TX mode - EUT in horizontal position - rear side on table (1)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

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

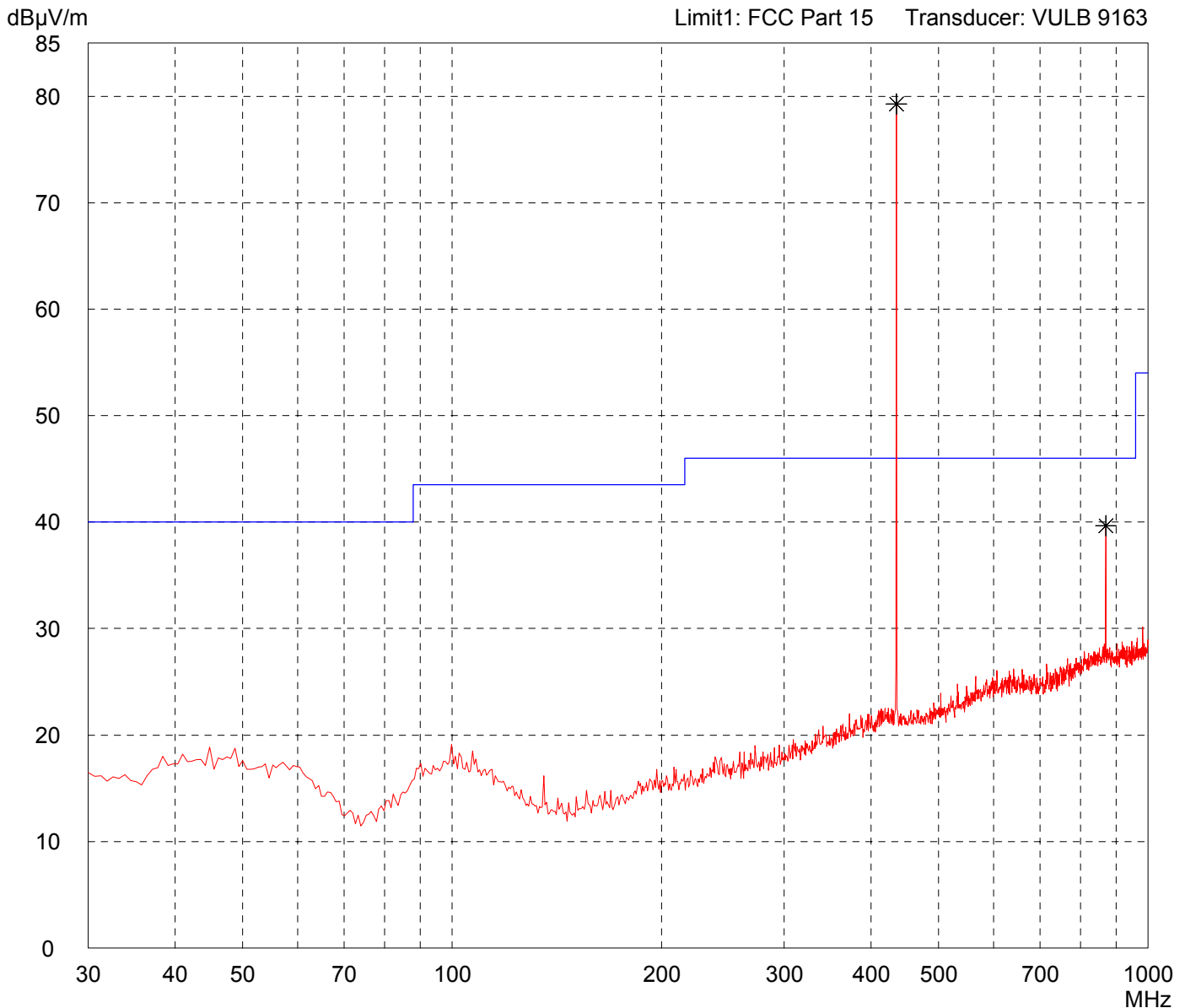


Result: Prescan	Project file: 56502-40186
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Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: BC74XX	Comment: - TX mode - EUT in horizontal position -right side on table (2)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

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

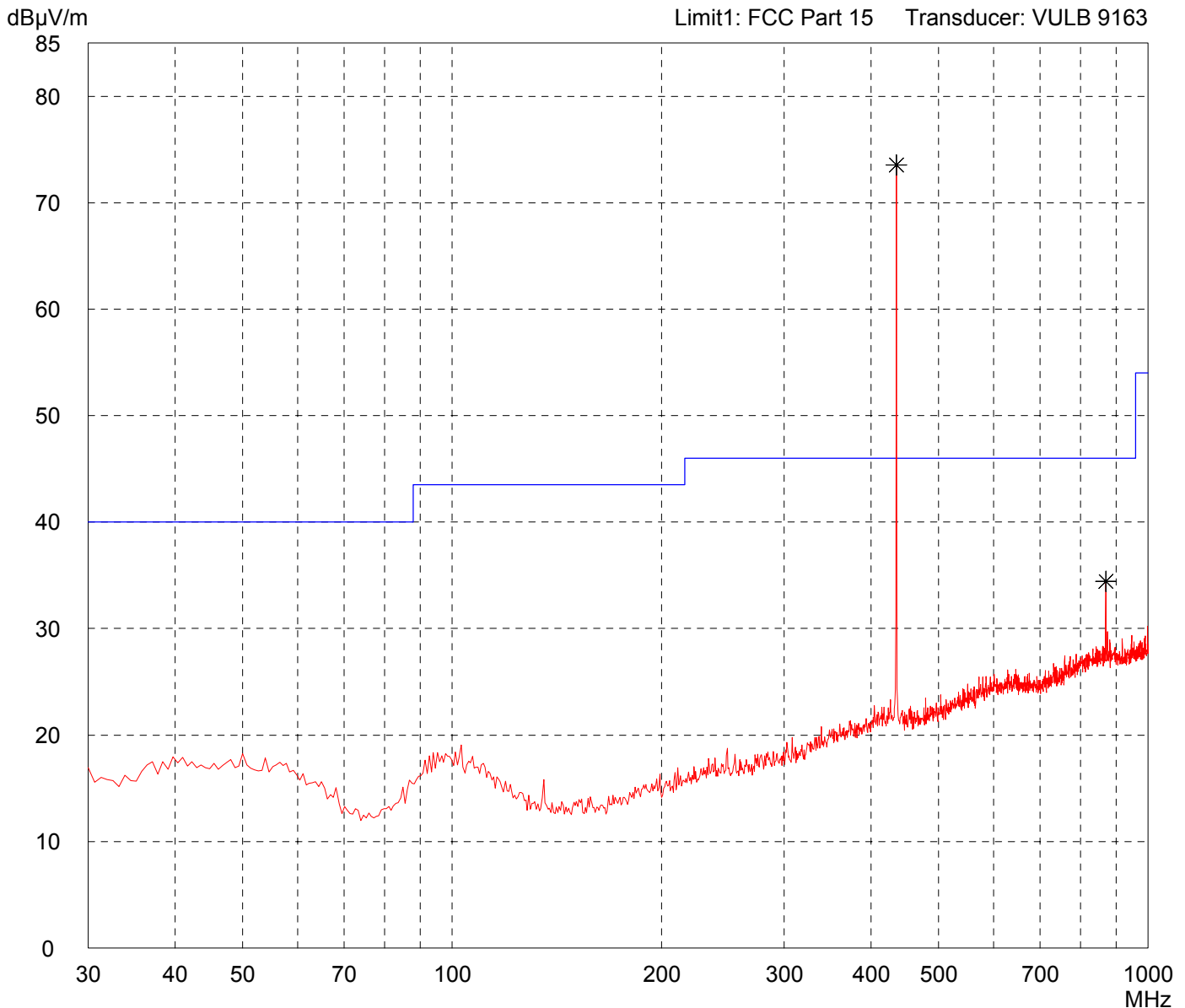


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Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: BC74XX	Comment: - TX mode - EUT in vertical position (3)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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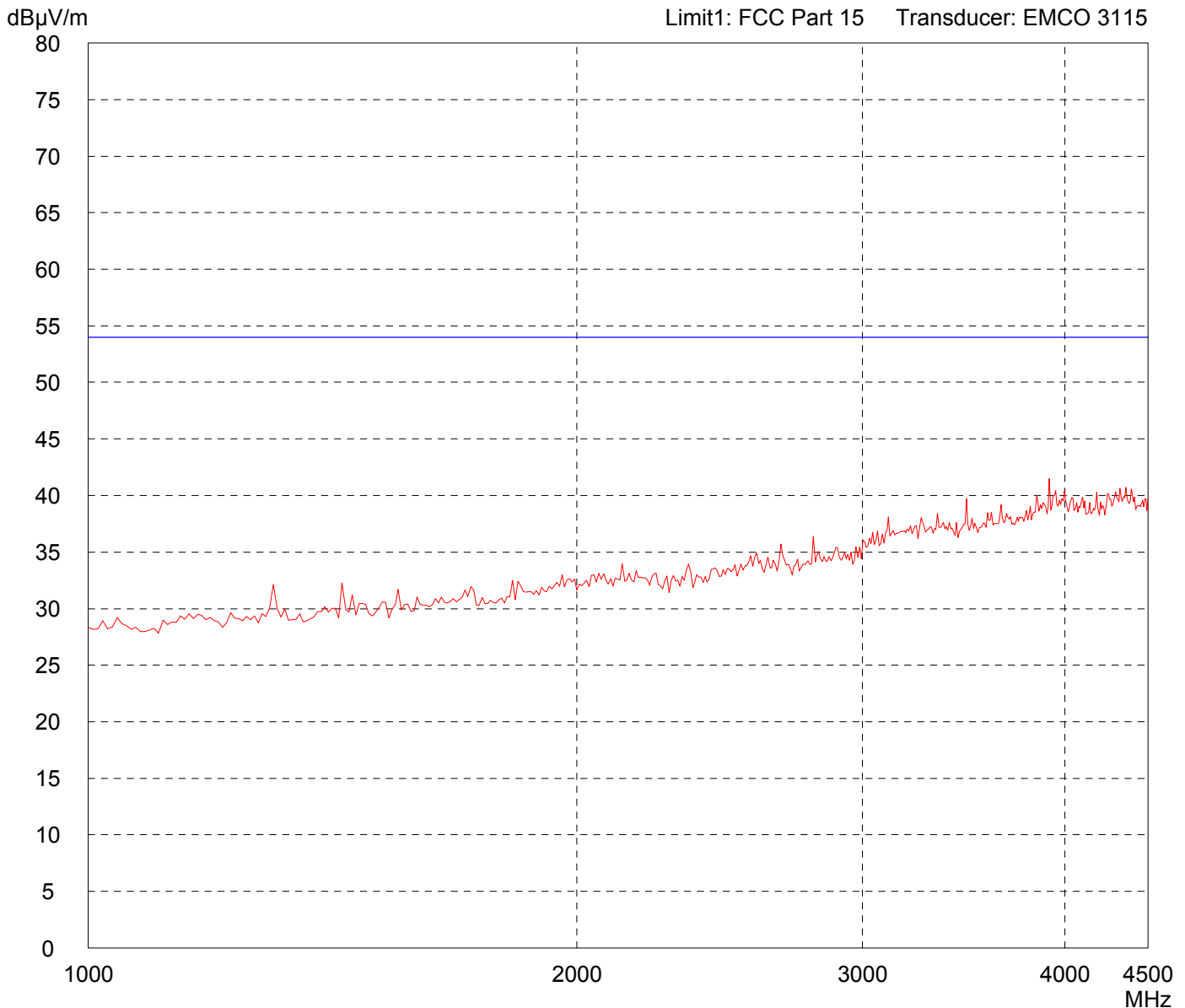


Result: Prescan	Project file: 56502-40186
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Radiated Emission Test 1 GHz - 4.5 GHz acc. to FCC Part 15 (EMCO 3115)

Model: BC74XX	Comment: - TX mode - EUT in horizontal position - rear side on table (1)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

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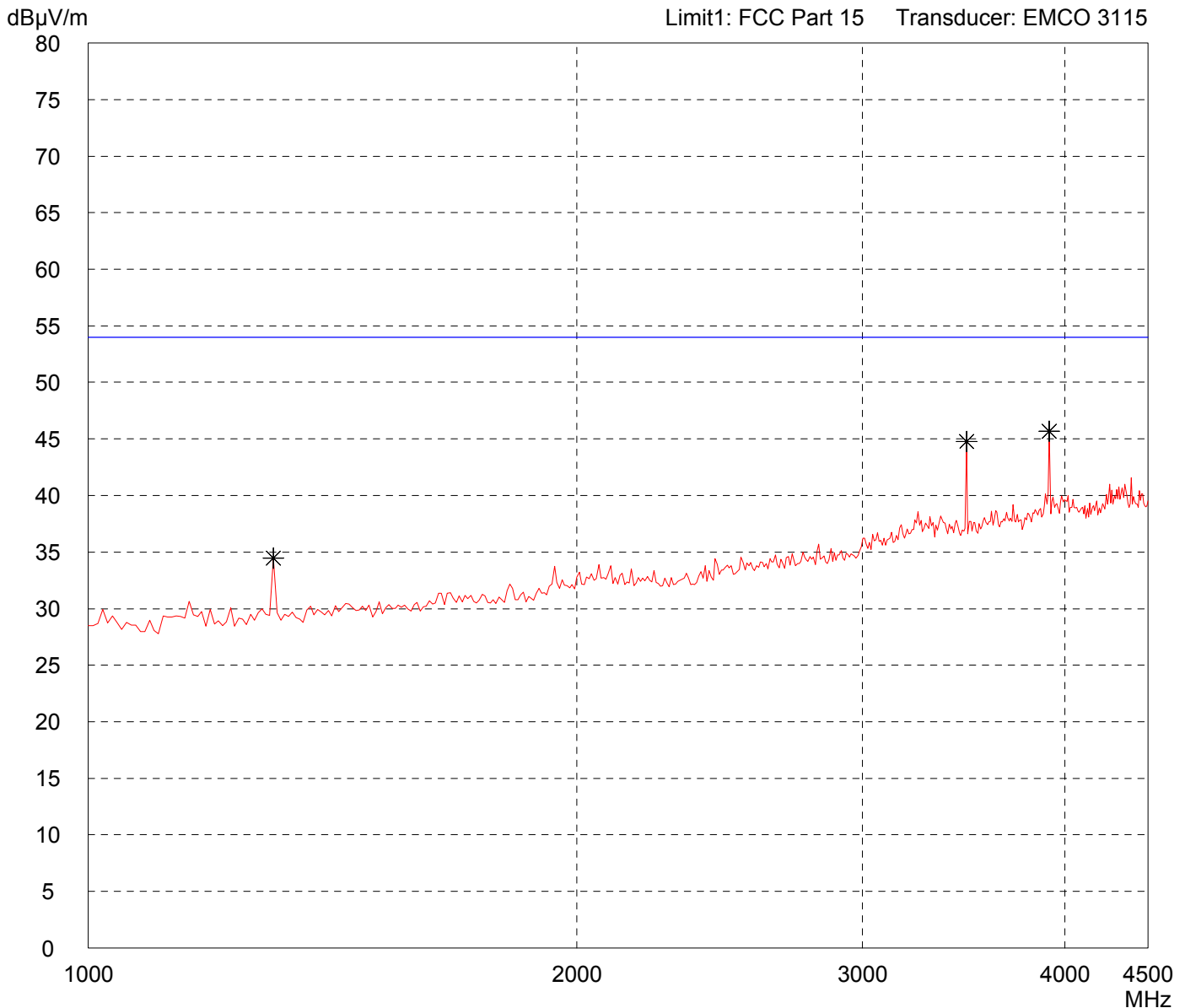


Result: Limit kept	Project file: 56502-40186
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Radiated Emission Test 1 GHz - 4.5 GHz acc. to FCC Part 15 (EMCO 3115)

Model: BC74XX	Comment: - TX mode - EUT in horizontal position - right side on table (2)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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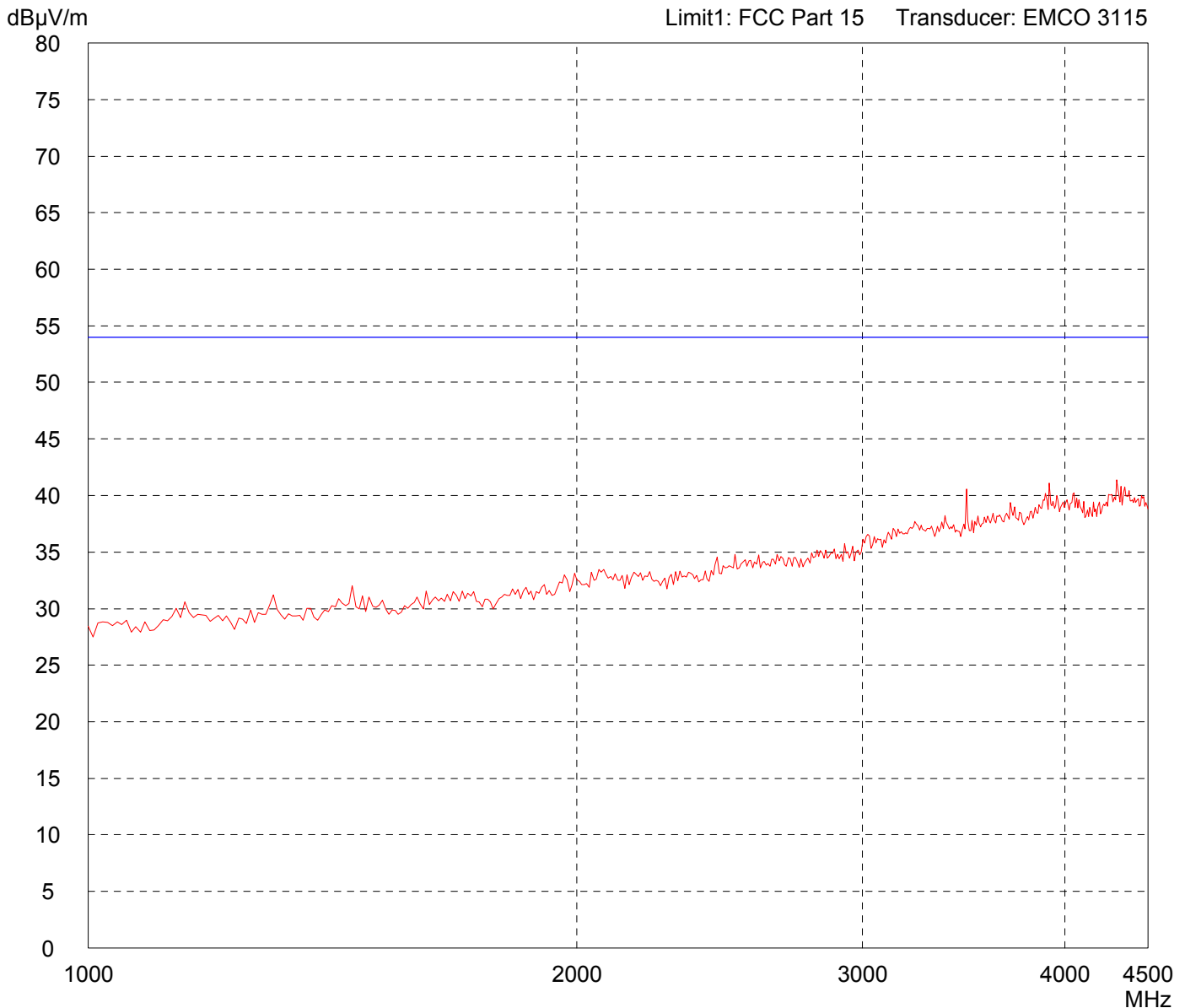


Result: Limit kept	Project file: 56502-40186
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Radiated Emission Test 1 GHz - 4.5 GHz acc. to FCC Part 15 (EMCO 3115)

Model: BC74XX	Comment: - TX mode - EUT in vertical position (3)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

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

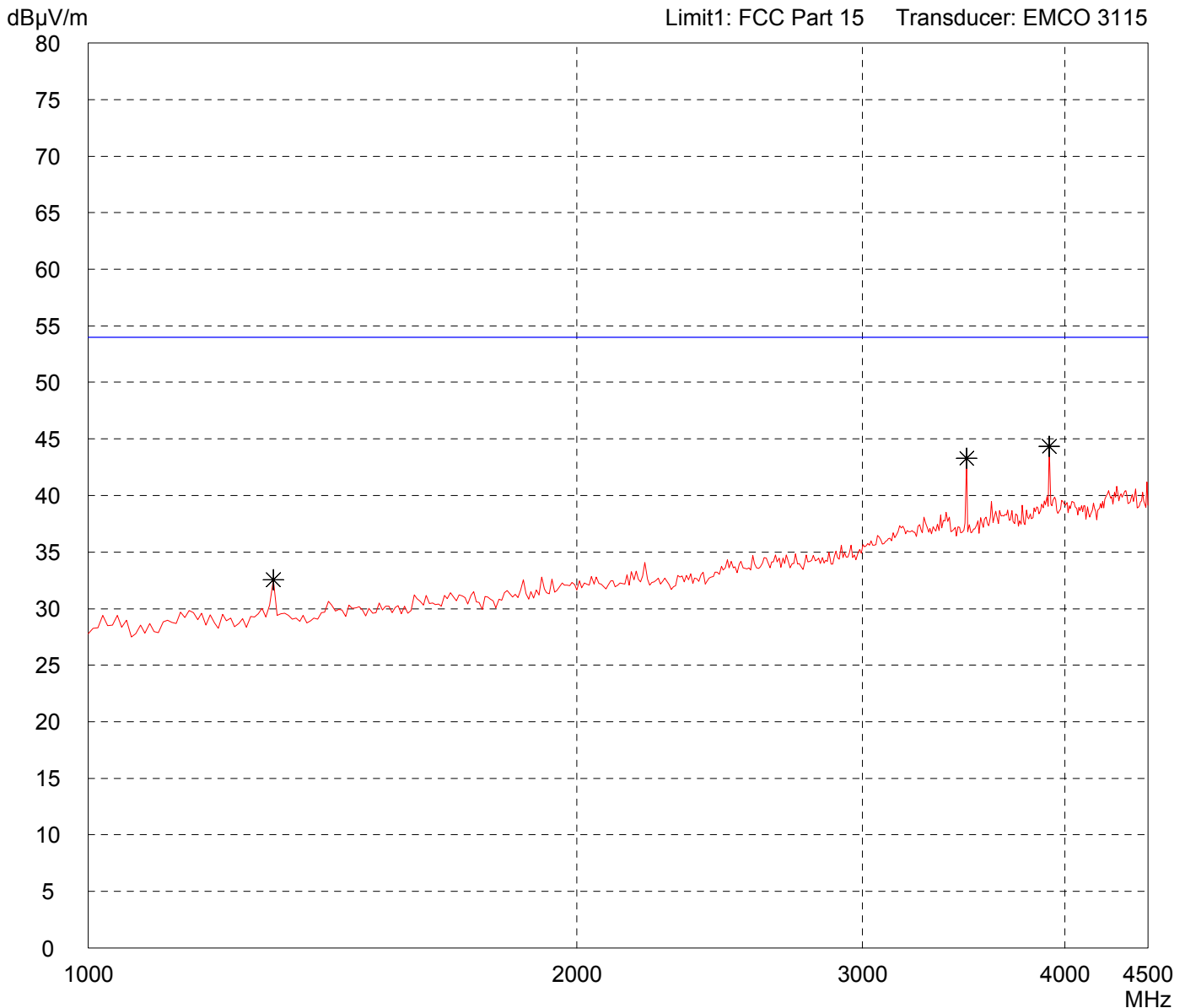


Result: Limit kept	Project file: 56502-40186
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Radiated Emission Test 1 GHz - 4.5 GHz acc. to FCC Part 15 (EMCO 3115)

Model: BC74XX	Comment: - TX mode - EUT in horizontal position - rear side on table (1)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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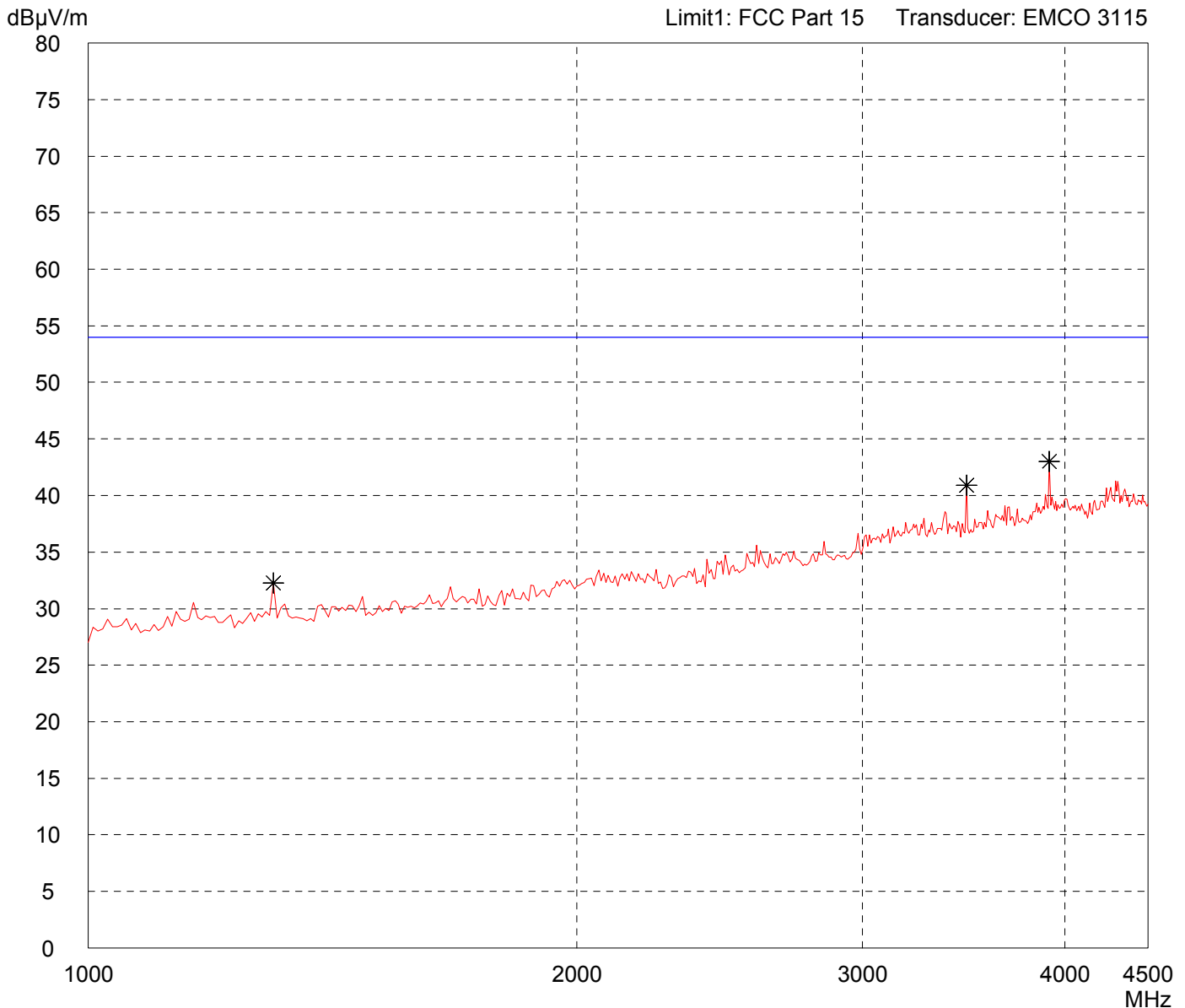


Result: Limit kept	Project file: 56502-40186
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Radiated Emission Test 1 GHz - 4.5 GHz acc. to FCC Part 15 (EMCO 3115)

Model: BC74XX	Comment: - TX mode - EUT in horizontal position - right side on table (2)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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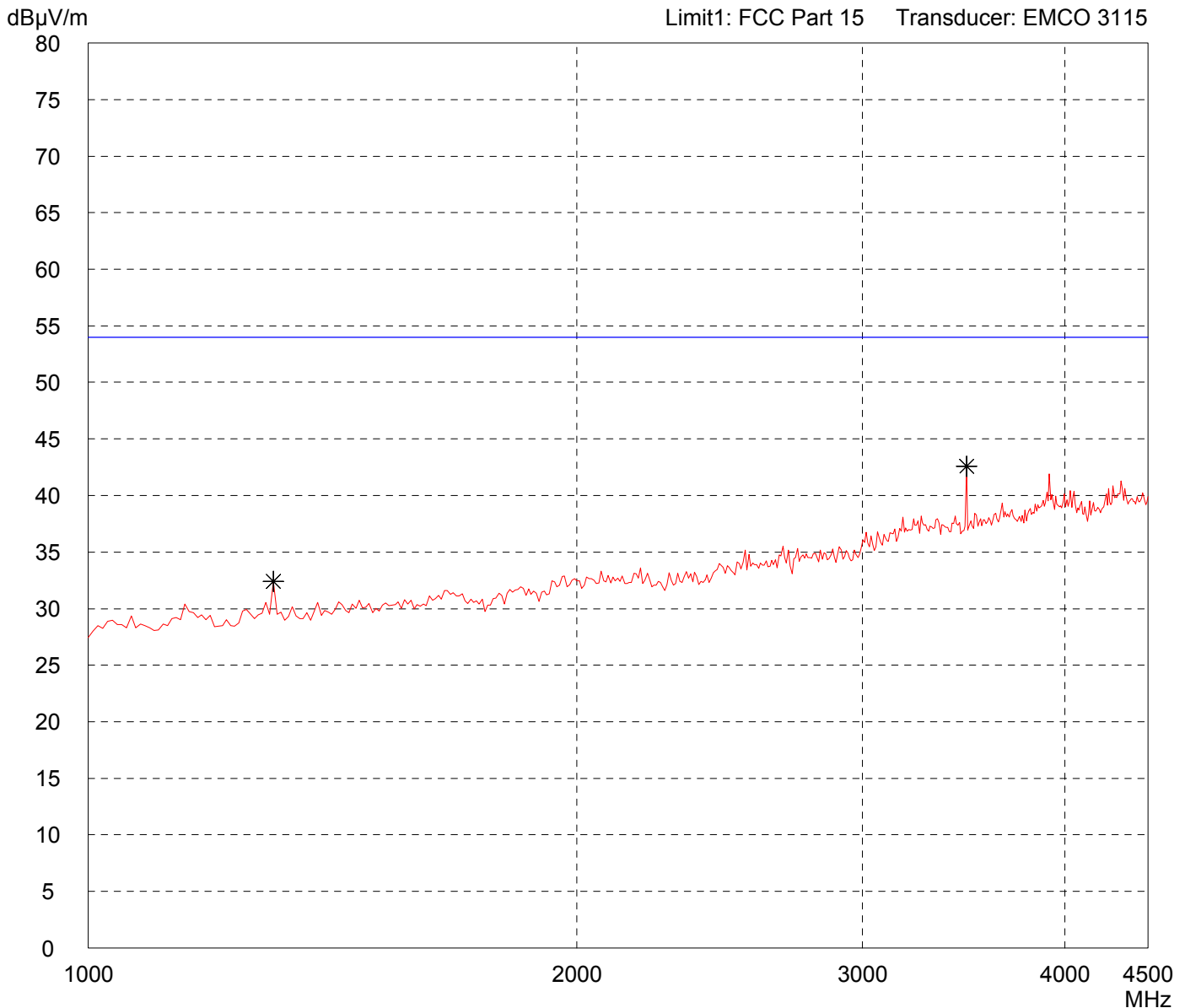


Result: Limit kept	Project file: 56502-40186
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Radiated Emission Test 1 GHz - 4.5 GHz acc. to FCC Part 15 (EMCO 3115)

Model: BC74XX	Comment: - TX mode - EUT in vertical position (3)
Serial no.: #1	
Applicant: Akerströms Björbo AB	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 03/23/2004	Operator: T. Eberl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Limit kept	Project file: 56502-40186
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