SENTON

■ EMV-Prüfzentrum ■ EMI/EMC-Testcenter ■

Straubing, 11 July 2007

T E S T - R E P O R T

No. 56109-060651 (Edition 4)

for

AC4490-1000M

RF Transceiver Module

Applicant:	AEROCOMM, Inc.
Purpose of testing:	To show compliance with FCC Code of Federal Regulations, Part 15 Subpart C, Section 15.247 and Industry Canada RSS 210, Issue 6, Annex 8 for Class II Permissive Change to include 2 additional antennas: - Comtelco Yagi - Y2283A-915-10RP - Nearson Omni-directional SG101NT- 915

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.

Table of Contents

1. Administrative Data

Test item (EUT)	
Type designation	AC4490-1000M
Serial number(s):	001
Type of equipment:	RF Transceiver
Parts/accessories:	---
FCC-ID:	KQL-AC4490
Technical data	
Frequency range	902 - 928 MHz
Operational frequencies	FHSS
Statement:	The power was set to the maximum possible
Type of modulation	FSK
Antenna	- Comtelco Yagi - Y2283A-915-10RP / 6 dBd gain / RP-SMA coupling (RP = reverse polarity) - Nearson Omni-directional - SG101NT-915 / 5 dBi gain / N-Reverse Thread (Female)
Power supply	3.3 V DC
Applicant: (full address)	AEROCOMM, Inc. 11160 Thomson Avenue Lenexa, KS 66219, USA
Contract identification:	---
Contact person:	Daniel Waters
Manufacturer:	Applicant
Application details	
Receipt of EUT:	12 July 2006
Date of test:	August 2006
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 062/94-01
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. Johann Roidt
RESPONSIBLE FOR TEST REPORT:	Mr. Johann Roidt

SUMMARY OF TEST RESULTS
The tested sample complies with the requirements set forth in the **Code of Regulations Part 15 Subpart C, Section 15.247 of the Federal Communication Commission (FCC.**

3. Operation Mode of EUT

Transmitter operating continuously,
Radiated spurious emission tests were performed on lowest, middle and highest RF channel.

4. Configuration

Configuration of the EUT
A full test setup was supplied by the applicant

Cables connected to the EUT
Not applicable

Peripheral devices connected to the EUT
Not applicable

5. Measuring Methods

5.0.1. Radiated Maximum Transmitter Power

Radiated Maximum Transmitter Power was measured with detector-function of the spectrum analyzer set to positive peak and trace mode max hold:
RBW = 100 kHz, VBW = 100 kHz, span = 1 MHz, sweep = 15 s

For measurement setup and procedure see section 5.2

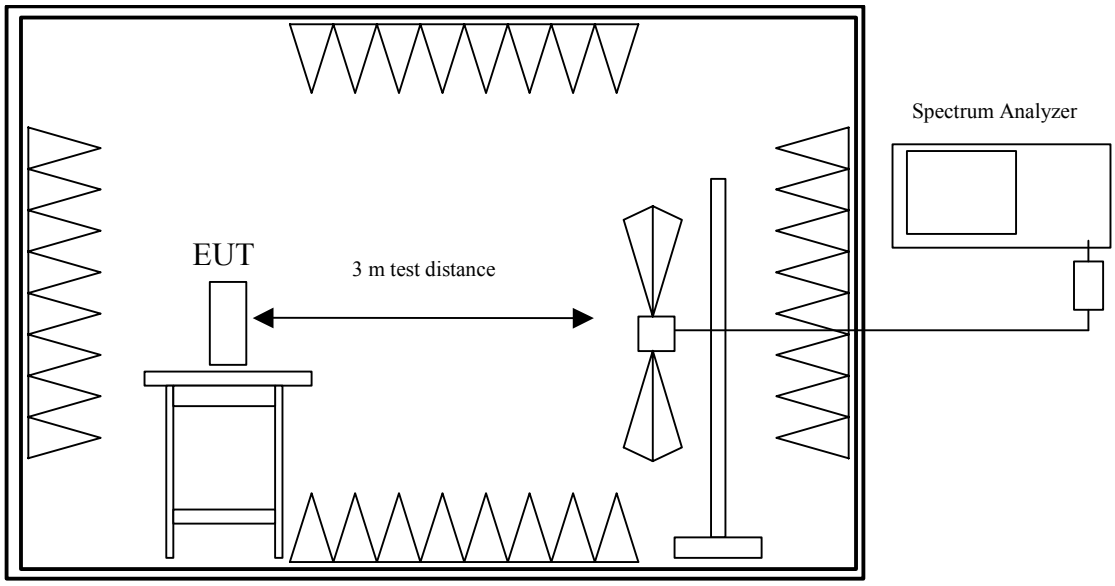
5.1. Radiated Emissions 30 MHz – 1 GHz

Rules and Specifications:	Section 15.247
Guide:	ANSI C63.4-2003

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

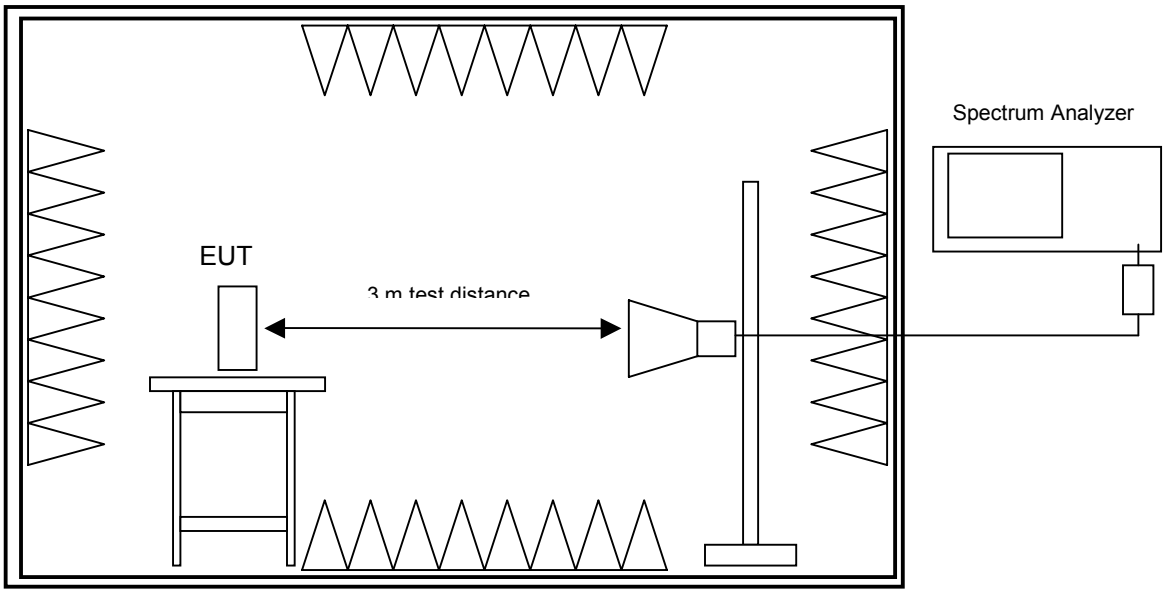
Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
113	Preamplifier	CPA9231A	3393	Schaffner
141	Trilog broadband antenna	VULB 9163	9163-188	Schwarzbeck
003	Fully anechoic room	No. 2	1452	Albatross Projects

5.2. Radiated Emission > 1 GHz

Rules and Specifications:	Section 15.247
Guide:	ANSI C63.4-2003

Measurement Procedure:
Radiated emissions are measured in the frequency range 1 GHz to 25 GHz. 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).



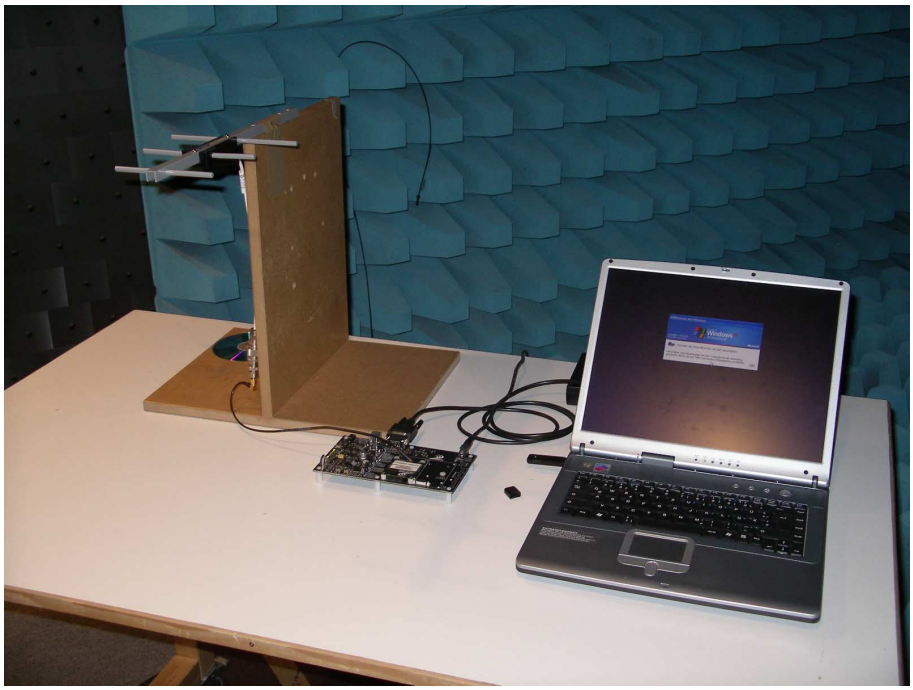
Fully anechoic chamber

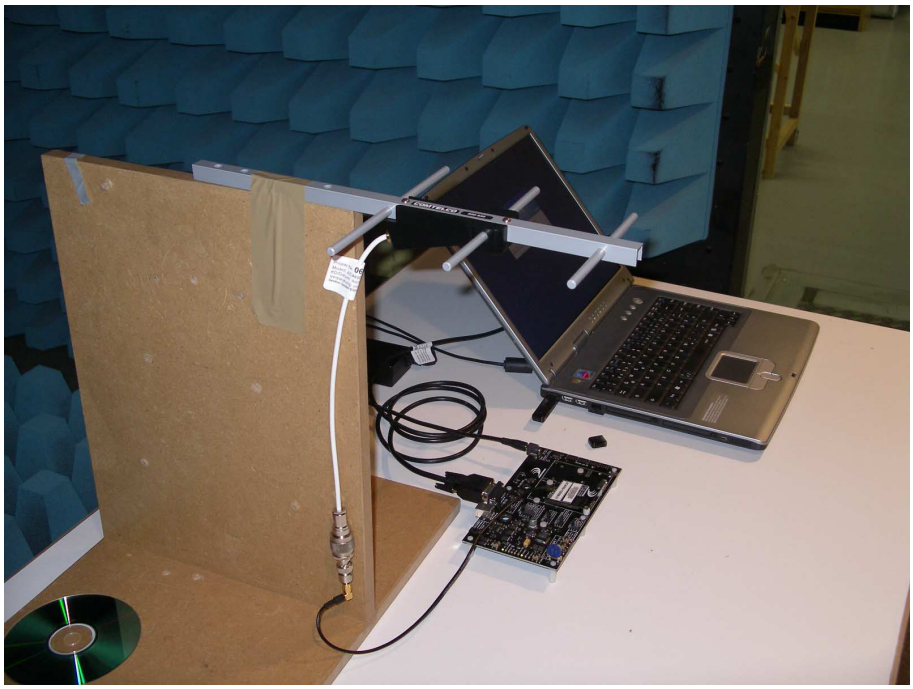
Test instruments used:

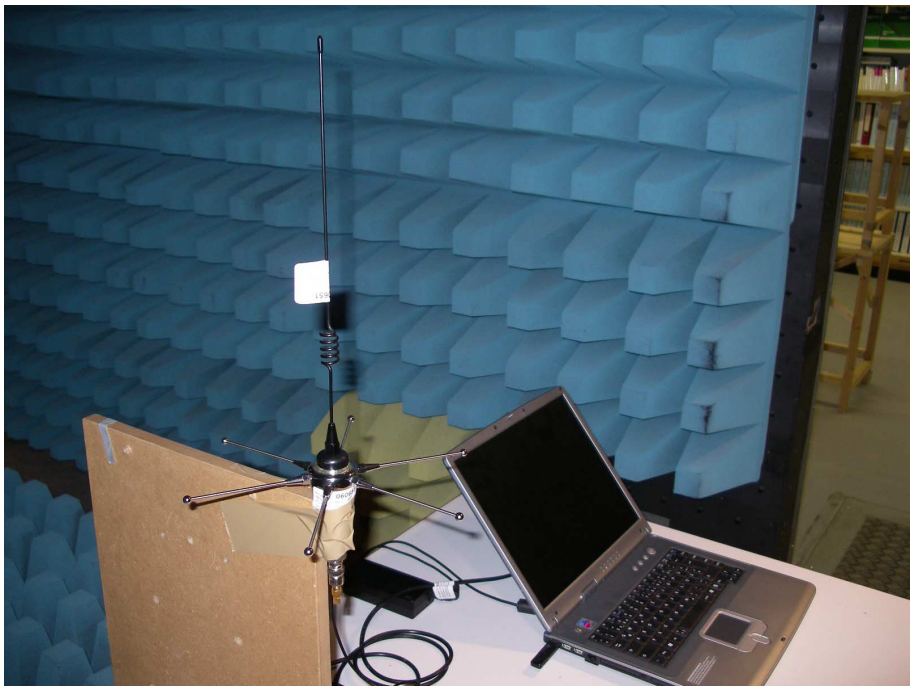
No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
145	Horn antenna	3115	9508-4553	EMCO
146	Horn antenna set	3160-03/-09	9112-1003	EMCO
114	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
115	Preamplifier 8-18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

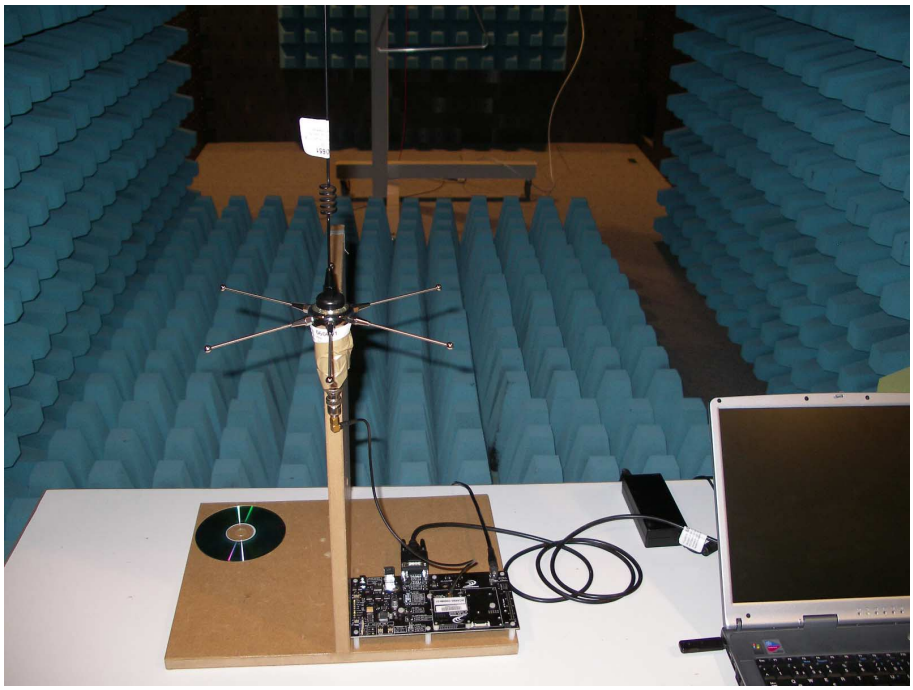
6. Photographs Taken During Testing

Test setup for radiated emission measurement (fully anechoic room)









7. List of Measurements

FCC Part 15 Subpart C			
Section(s):	**Test**	**Page(s)**	**Result**
	Transmitter:		
15.205	Restricted Bands	---	Pass
15.247 (a) (1)	Channel Bandwidth		Not performed
15.247 (a) (1)	Hopping channel separation		Not performed
15.247 (a) (1) (i)	Number of Hopping Frequencies used		Not performed
15.247 (a) (1) (i)	Dwell Time of each frequency within a 10 Second Period of Time		Not performed
15.247 (b) (2)	Maximum Peak Output Power		Pass
15.247 (c)	Spurious emissions - conducted		Not performed
15.247 (c) **15.209**	Spurious emissions - radiated		Pass
15.247 (g)	Compliance with applicable requirements for FHSS		---
15.247 (h)	Limitation on avoidance on hopping in occupied channel		---
15.203	Antenna Requirement		
2.1093	RF Exposure Requirement		Pass
15.207	Conducted AC Powerline Emissions		Not performed
	Receiver		
15.111	Spurious emissions on antenna port		N/A
15.109	Radiated Emissions		Pass

RSS 210, Issue 6			
Section(s):	**Test**	**Page(s)**	**Result**
	Transmitter:		
Annex 8			
	Restricted Bands	---	Pass
	Channel Bandwidth		Not performed
	Hopping channel separation		Not performed
	Number of Hopping Frequencies used		Not performed
	Dwell Time of each frequency within a 10 Second Period of Time		Not performed
	Maximum Peak Output Power		Pass
A8.5	Spurious emissions - conducted		Not performed
A8.5	Spurious emissions - radiated		Pass
	Antenna Requirement		
	RF Exposure Requirement		Pass
	Conducted AC Powerline Emissions		Not performed
	Receiver		
	Spurious emissions on antenna port		N/A
	Radiated Emissions		Pass

Antenna: Comtelco Yagi - Y2283A-915-10RP

Spurious Emissions

Rules and Specifications:	15.247 (c)
Guide:	ANSI C63.4-2003
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

Test Site:	Open Area Test Site (< 1GHz), Fully anechoic room (>1 GHz)
Distance:	Radiated Measurement at 3 m distance
Date of Test:	August 2006

Frequency (MHz)	Antenna Polarisation	Meter Reading (dBµV)	Antenna Correction (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
902.20	horizontal	102.94	24.19	127.13	---	---
915.37	horizontal	101.90	24.31	126.21	---	---
927.48	horizontal	101,00	24.41	125.41	---	---
565.4	horizontal	26.75	19.65	58.90	105.4	>20
677.9	horizontal	31.52	20.67	57.63	105.4	>20
734.2	horizontal	30.32	21.26	47.87	105.4	>20
790.4	horizontal	44.64	22.01	52.46	105.4	>20
846.7	horizontal	35.43	23.52	58.95	105.4	>20
873.9	horizontal	35.41	23.86	59.27	105.4	>20
3610.0	horizontal	10.30	38.11	48.41	54.0	5.59
5410,0	horizontal	11.45	42.44	53.89	54.0	0.11

Antenna: Nearson Omni-directional SG101NT-915

Spurious Emissions

Rules and Specifications:	15.247 (c)
Guide:	ANSI C63.4-2003
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

Test Site:	Open Area Test Site (< 1GHz), Fully anechoic room (>1 GHz)
Distance:	Radiated Measurement
Date of Test:	August 2006

Frequency (MHz)	Antenna Polarisation	Meter Reading (dBµV)	Antenna Correction (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
902.20	Vertical	101.70	24.19	125.89	---	---
915.37	Vertical	100.17	24.31	124.48	---	---
927.48	Vertical	98.80	24.41	123.21	---	---
225.9	Vertical	32.36	13.29	45.66	103.2	> 20
565.4	Vertical	20.37	20.31	40.68	103.2	> 20
619.7	Vertical	27.51	21.07	48.59	103.2	> 20
677.9	Vertical	32.15	21.39	53.54	103.2	> 20
734.2	Vertical	26.90	22.01	48.90	103.2	> 20
790.4	Vertical	33.70	22.79	56.49	103.2	> 20
846.7	Vertical	34.60	23.52	58.13	103.2	> 20
873.9	Vertical	33.24	23.86	57.09	103.2	> 20

Antenna: Comtelco Yagi - Y2283A-915-10RP

RF Exposure

Rules and Specifications:	15.247 (b) (4)
Guide:	OET Bulletin 65, Edition 97-01
Limit:	According to §15.247(b)(4) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissive Exposure (MPE)
General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2	Averaging Time (minute)
30 - 1500	---	---	f/1500 = 0.61 mw/cm2 @ 915 MHz	30

f = frequency in MHz

MPE Prediction of MPE according to equation from page 19 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density
P = power input to antenna
G = power gain of the antenna relativ to an isotropic radiator
R = Distance to the center of radiation of the antenna

Maximum output power at antenna input terminal: **28.71 dBm = 743 mW**
Prediction distance: **20 cm**
Antenna gain: (Comtelco Yagi - Y2283) **6.0 dBi = 4.0 (numerical gain)**

Power density at 20 cm: **0.59 mW/cm2**

Test Result:	**Pass**	

Antenna: Nearson Omni-directional SG101NT-915

RF Exposure

Rules and Specifications:	15.247 (b) (4)
Guide:	OET Bulletin 65, Edition 97-01
Limit:	According to §15.247(b)(4) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissive Exposure (MPE)
General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm2	Averaging Time (minute)
30 - 1500	---	---	f/1500 = 0.61 mw/cm2 @ 915 MHz	30

f = frequency in MHz

MPE Prediction of MPE according to equation from page 19 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density
P = power input to antenna
G = power gain of the antenna relativ to an isotropic radiator
R = Distance to the center of radiation of the antenna

Maximum output power at antenna input terminal: **28.71 dBm = 743 mW**
Prediction distance: **20 cm**
Antenna gain: (Nearson S467FL-L-AM-915S) **5.0 dBi = 3.16 (numerical gain)**

Power density at 20 cm: **0.467 mW/cm2**

Test Result:	**Pass**	

Antenna: Comtelco Yagi - Y2283A-915-10RP

Spurious Radiation Measurement

Rules and Specifications:	15.109,	
Guide:	ANSI C63.4-2003	
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:	RX Mode, middle RF Channel
Test Site:	Open Area Test Site (< 1 GHz), Fully anechoic chamber (> 1 GHz)
Distance:	3 Meter

Frequency (MHz)	Detector	Antenna Polarization	Analyzer Reading (dBµV)	Correction Factor (dB/m)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
516,940	Q.P.	Horizontal	19,67	19,33	39,00	46,00	**-7,0**
546,040	Q.P.	Horizontal	16,51	19,93	36,44	46,00	**-9,6**
575,140	Q.P.	Horizontal	16,67	20,50	37,17	46,00	**-8,8**
693,480	Q.P.	Horizontal	15,8	21,47	37,27	46,00	**-8,7**
697,360	Q.P.	Horizontal	16,75	20,76	37,51	46,0	**-8,5**

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

Sample calculation of erp values:

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

Antenna: Nearson Omni-directional SG101NT-915

Spurious Radiation Measurement

Rules and Specifications:	15.109,
Guide:	ANSI C63.4-2003
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:	RX Mode, middle RF Channel
Test Site:	Open Area Test Site (< 1 GHz), Fully anechoic chamber (> 1 GHz)
Distance:	3 Meter

Frequency (MHz)	Detector	Antenna Polarization	Analyzer Reading (dBµV)	Correction Factor (dB/m)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
516.940	Q.P.	Horizontal	18.59	19.33	37.92	46.00	**-8.1**
575.140	Q.P.	Horizontal	16.14	20.50	36.64	46.00	**-9.4**

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

Sample calculation of erp values:

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

8. Referenced Regulations

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

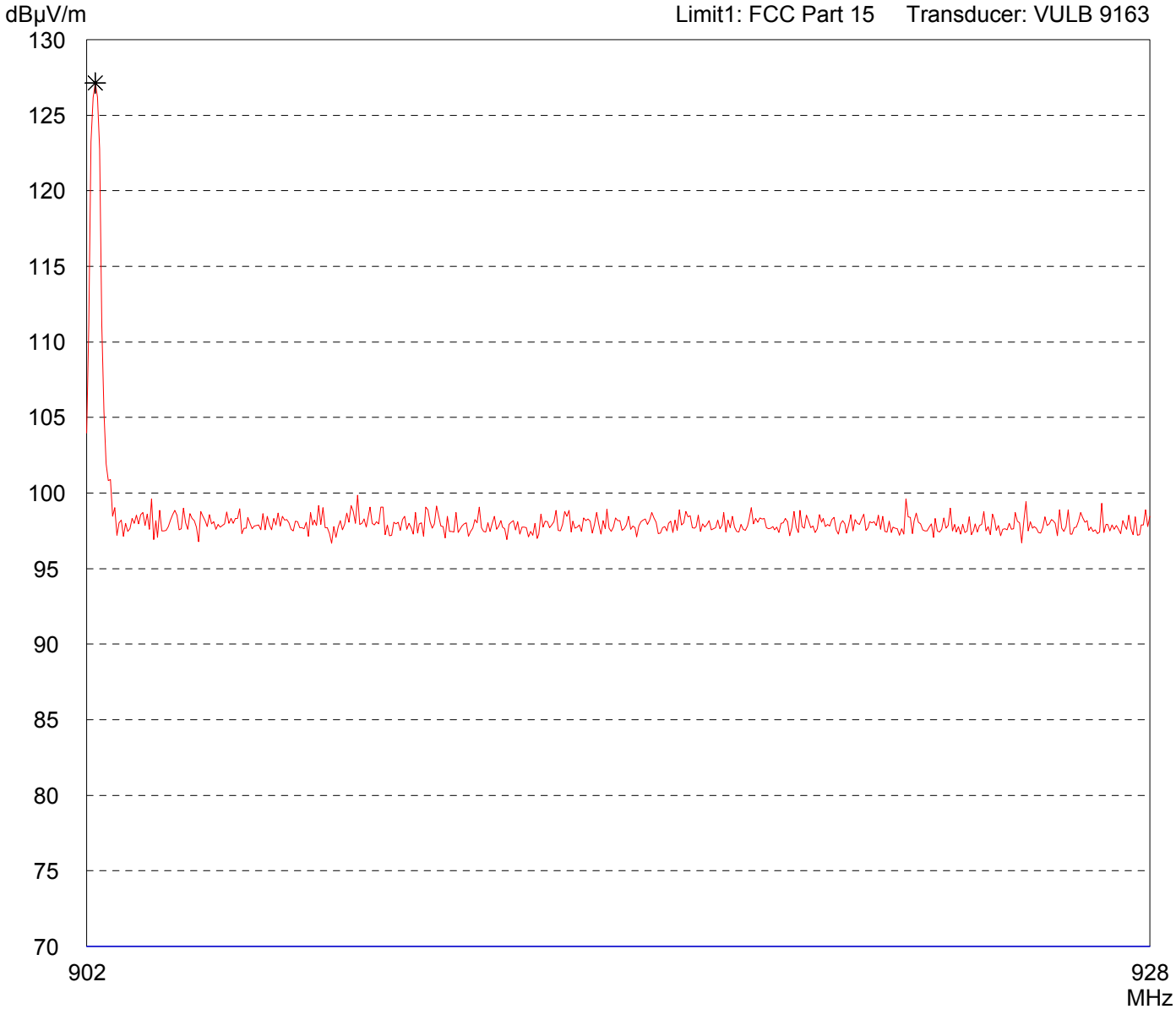
All tests were performed with reference to the following regulations and standards:

☒	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 10, 2004
☒	CFR 47 Part 15	Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC)	September 19, 2005
☒	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 1 containing General Requirements and Information for the Certification of Radiocommunication Equimpment, published by Industry Canada	September 2005
☒	RSS-210	Radio Standards Specification RSS-210 Issue 6 for Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, published by Industry Canada	September 2005
☐	RSS-310	Radio Standards Specification RSS-310 Issue 1 for Low Power Licence-Ecempt Radiocommunicaton 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

Charts taken during testing

Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15.225 (Fully Anechoic Chamber)

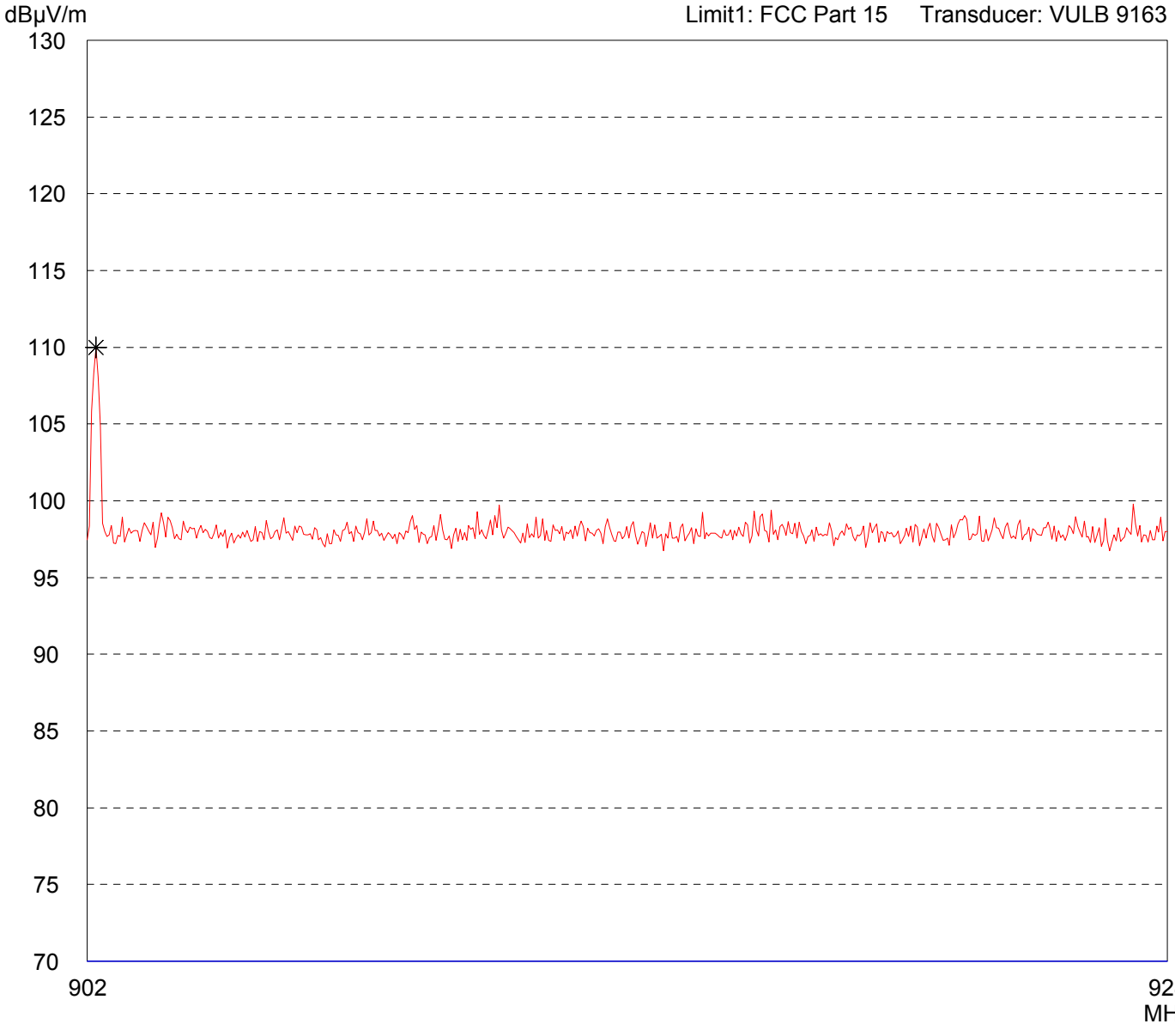
Model: AC4490-1000M with Comtelco Yagi Y2283	Comment: TX at 902.20 MHz (Low Channel)
Serial no.:	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 09/13/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand



Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15.225 (Fully Anechoic Chamber)

Model: AC4490-1000M with Comtelco Yagi Y2283	Comment: TX at 902.20 MHz (Low Channel)
Serial no.:	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 09/13/2006 — Operator: J. Roidt	
Test performed: automatically — File name: default.emi	
Detector: Peak	List of values: Selected by hand



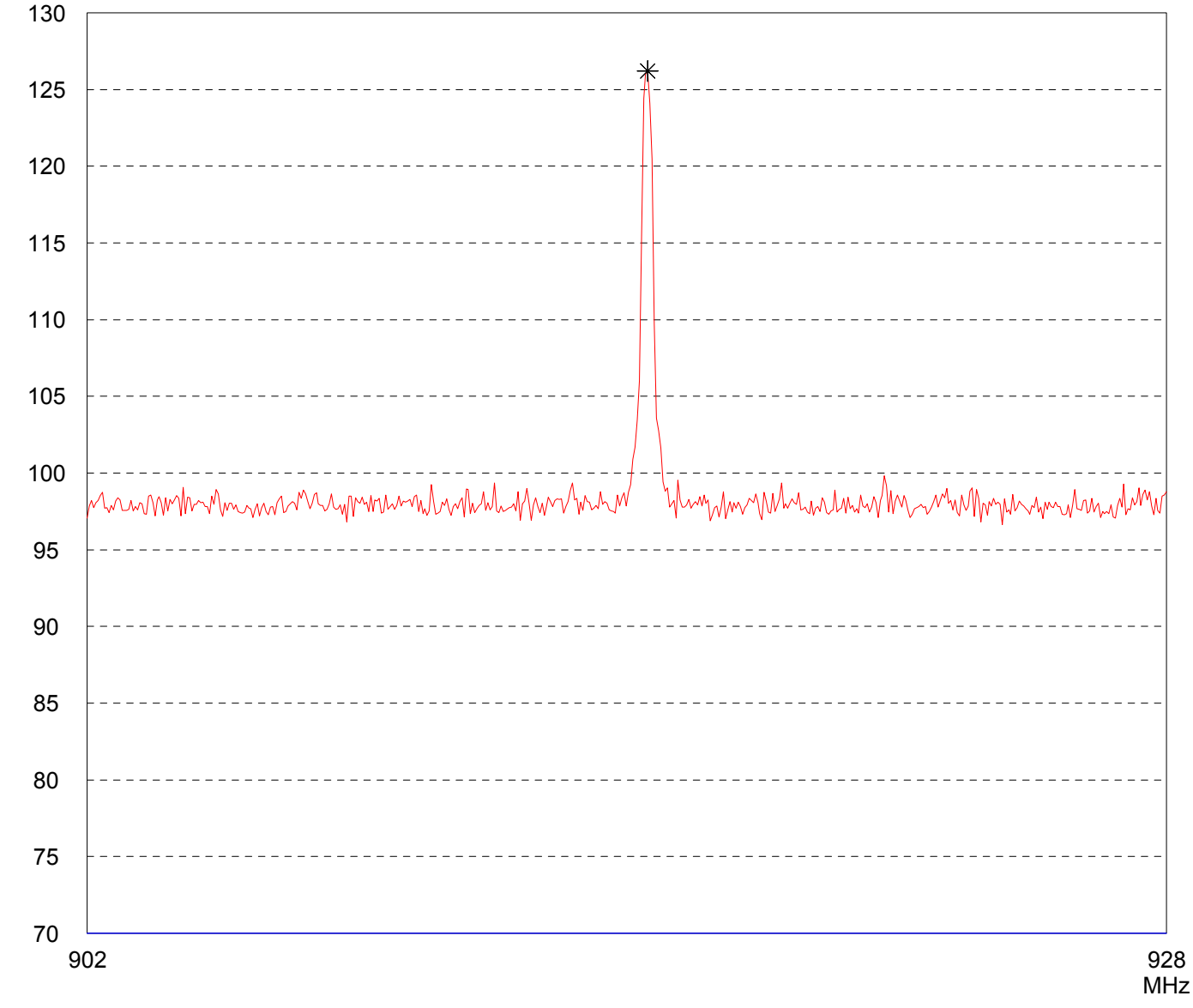
Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4490-1000M with Comtelco Yagi Y2283	Comment: TX at 915.37 MHz (Mid Channel)
Serial no.:	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 09/13/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

dBµV/m — Limit1: FCC Part 15 — Transducer: VULB 9163



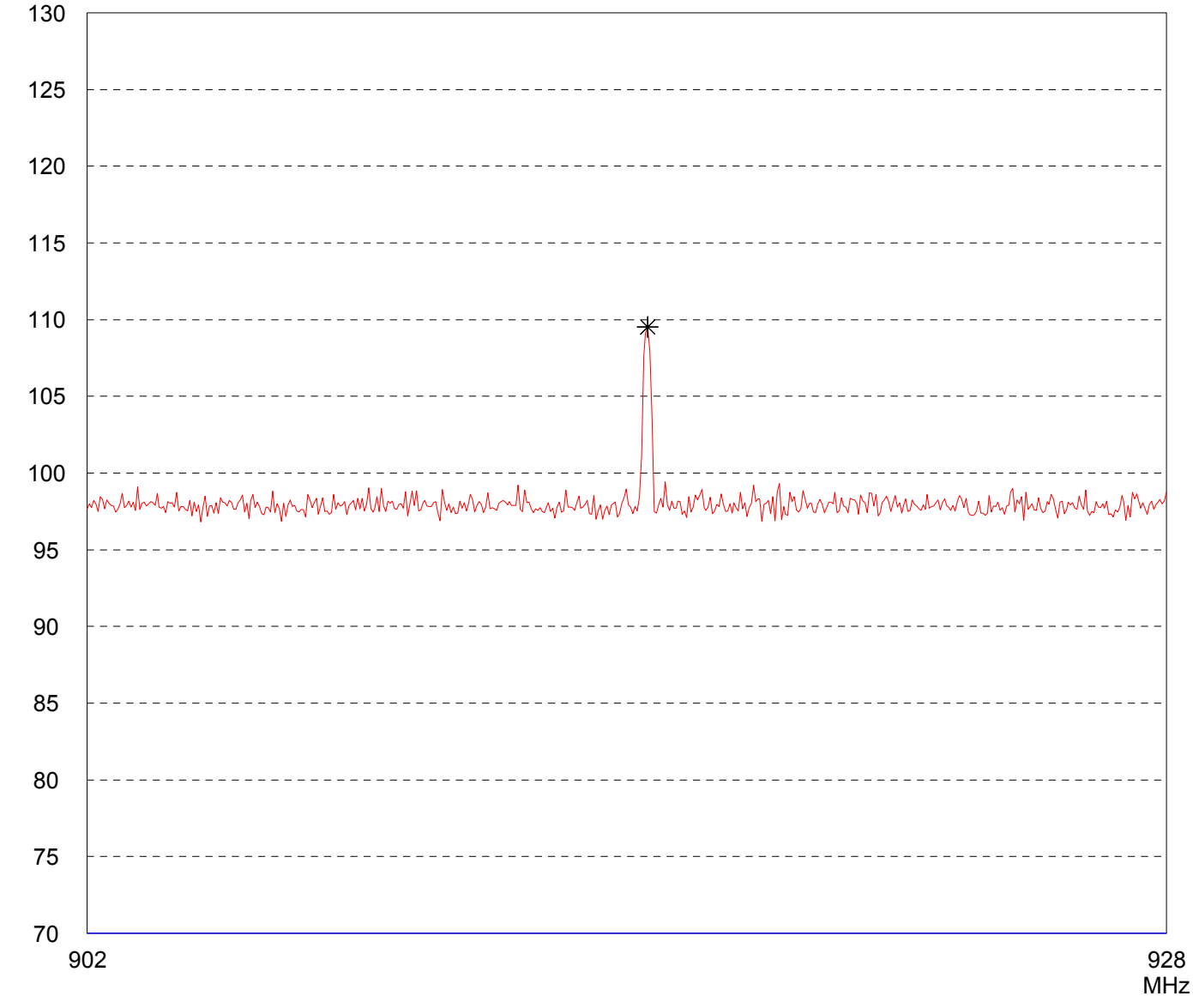
Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4490-1000M with Comtelco Yagi Y2283	Comment: TX at 915.37 MHz (Mid Channel)
Serial no.:	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 09/13/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

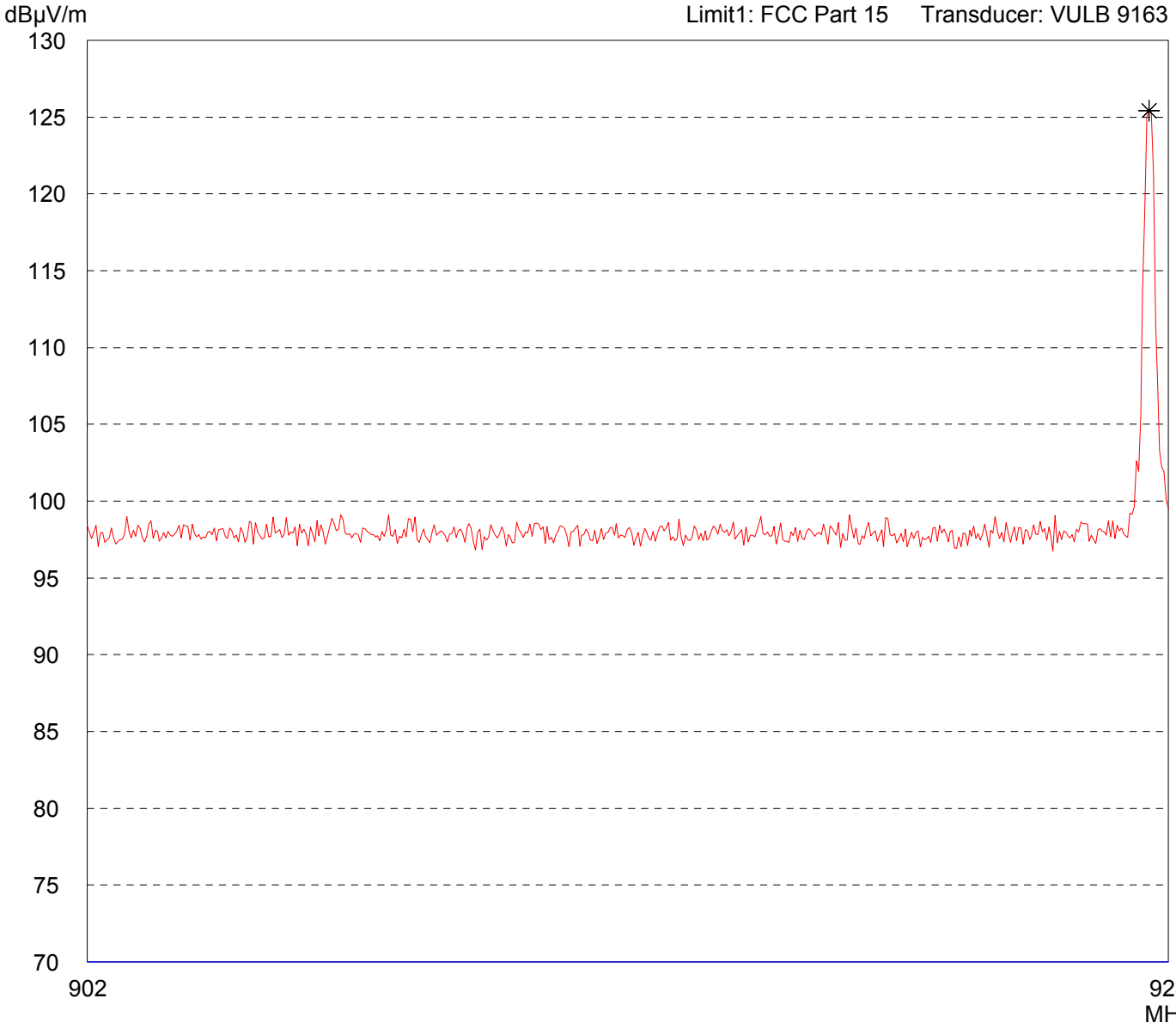
dBµV/m — Limit1: FCC Part 15 — Transducer: VULB 9163



Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4490-1000M with Comtelco Yagi Y2283	Comment: TX at 927.48 MHz (High Channel)
Serial no.:	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 meters Horizontal Polarization	
Date of test: 09/13/2006 — Operator: J. Roidt	
Test performed: automatically — File name: default.emi	
Detector: Peak	List of values: Selected by hand

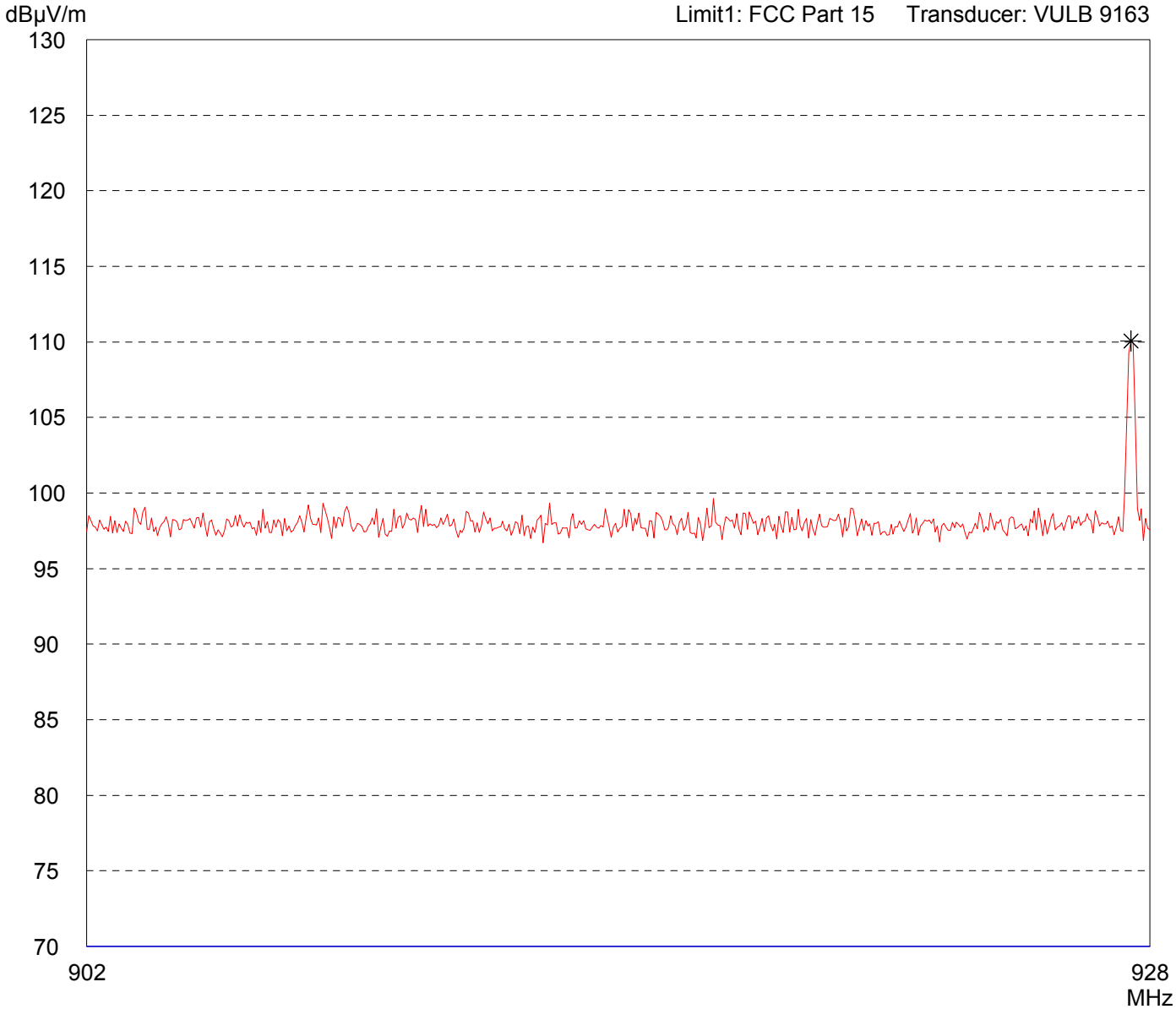


Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4490-1000M with Comtelco Yagi Y2283	Comment: TX at 927.48 MHz (High Channel)
Serial no.:	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 meters Vertical Polarization	
Date of test: 09/13/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

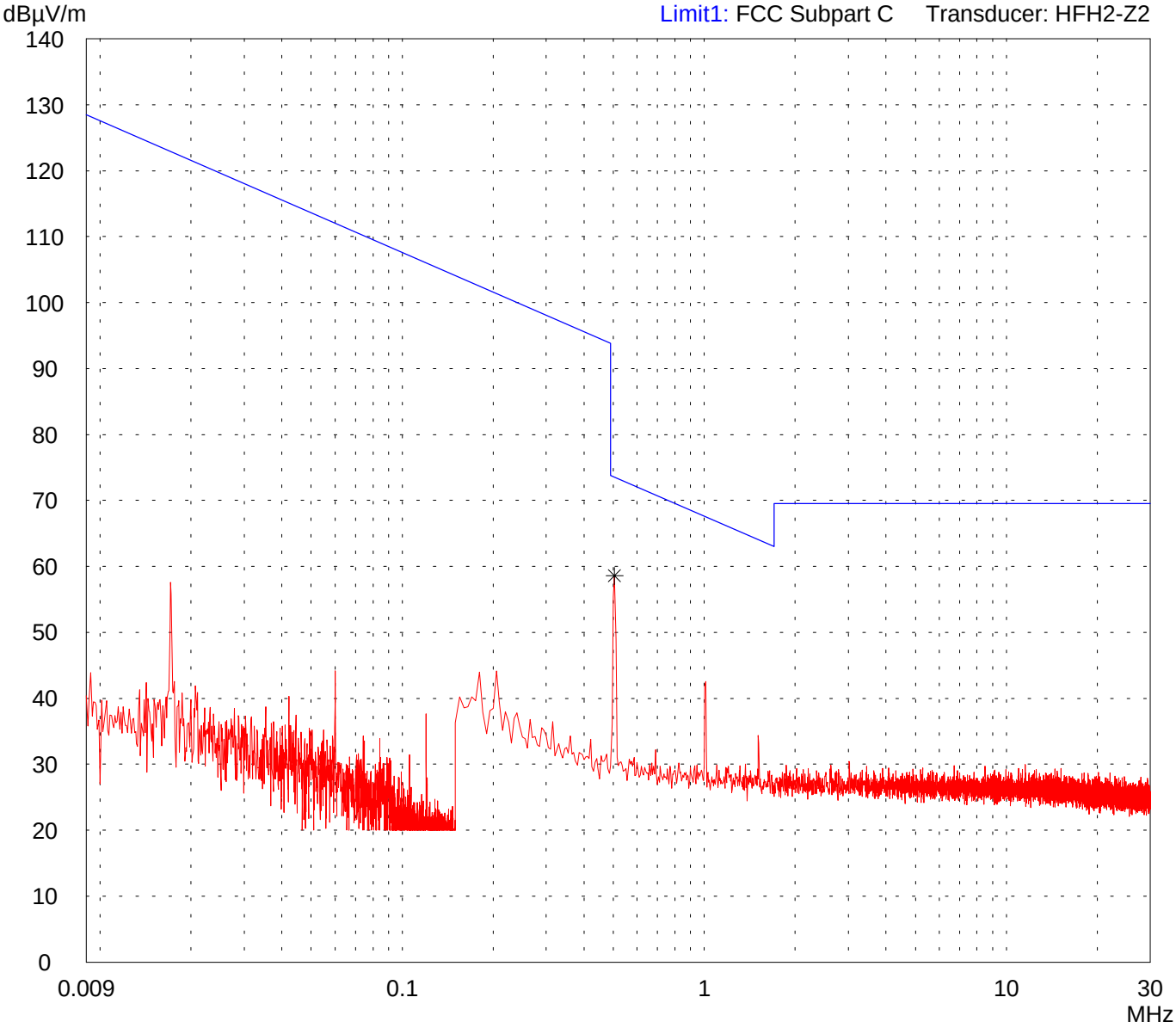


Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 9 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: AC4490-1000M with Comtelco Yagi	Mode: TX at 915.37 MHz
Serial no.:	
Applicant: AEROCOMM, Inc.	
Test site: Shielded room, cabin no. 1	
Tested on: Test distance 3 metres	
Date of test: 10/04/2006 / Operator: J. Roidt	
Test performed: automatically / File name:	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin 25 Subranges

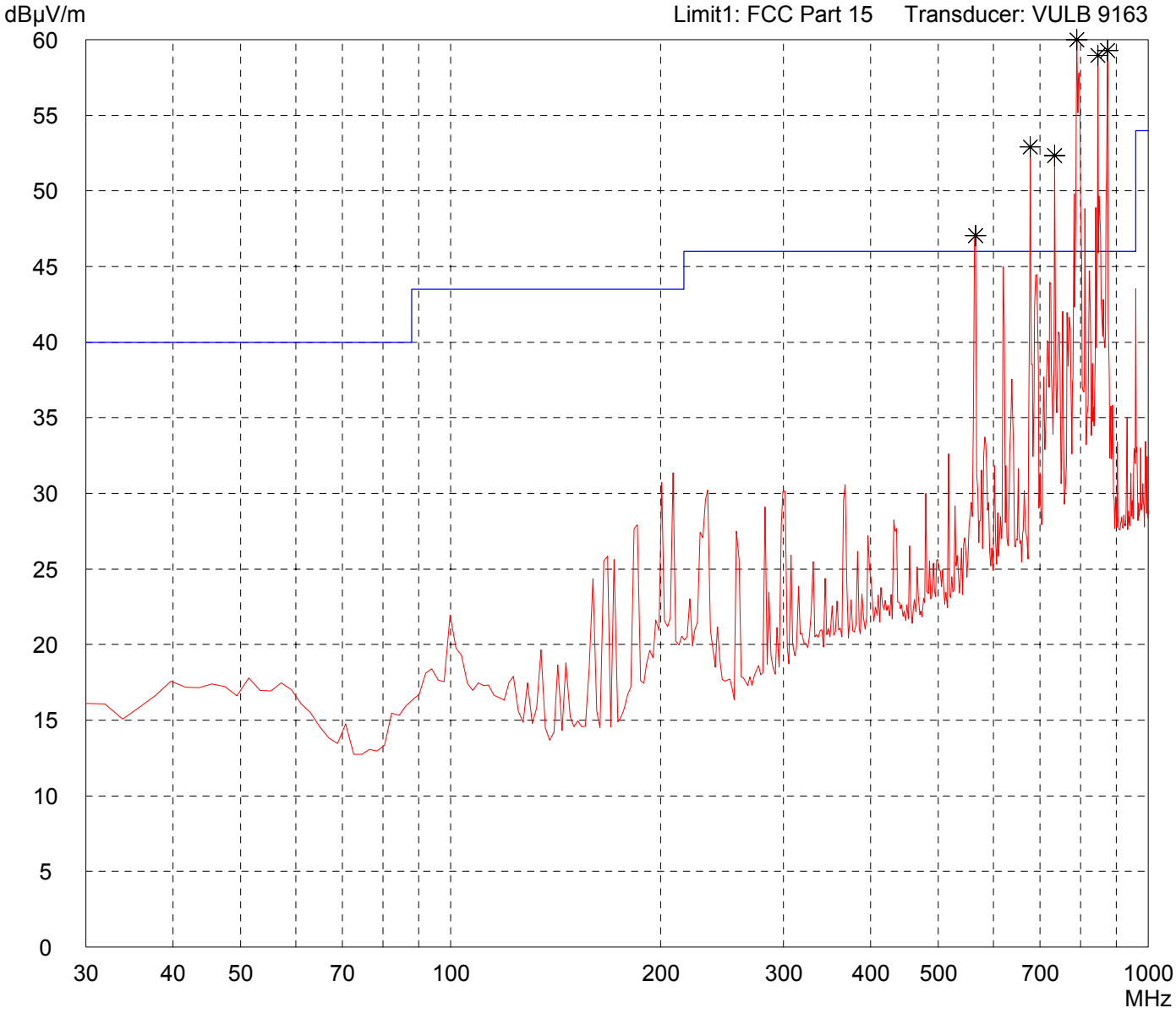


Result: Limit kept	Project file: 56109-060651 Page of Pages

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

Model: AC4490-1000M with Comtelco Yagi YY2283	Comment: - TX at 902.20 MHz (Low Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: 0 dB Margin / 50 Subranges

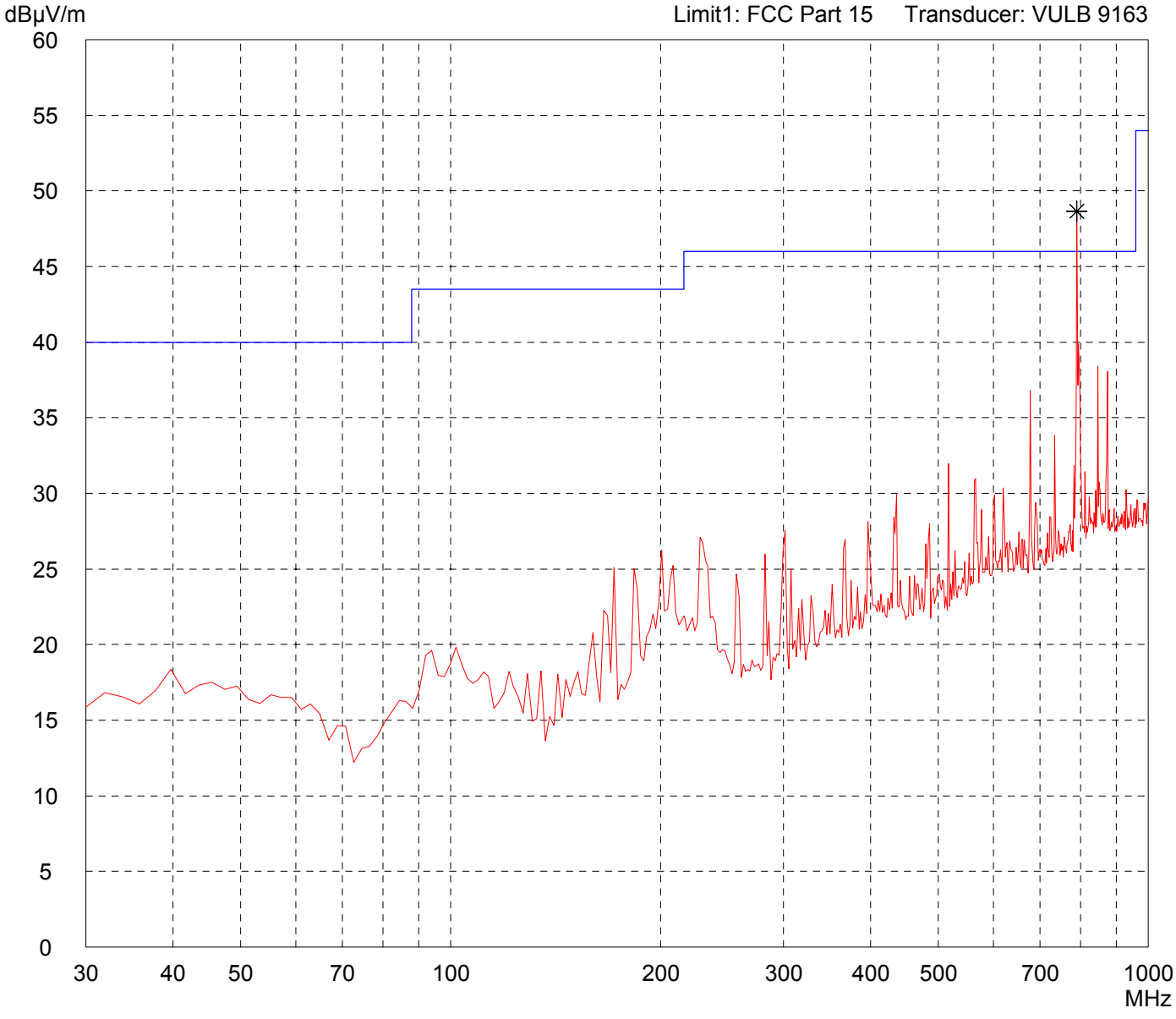


Result: Prescan	Project file: 56109-60651 Page of Pages

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

Model: AC4490-1000M with Comtelco Yagi YY2283	Comment: - TX at 902.20 MHz (Low Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: 0 dB Margin / 50 Subranges

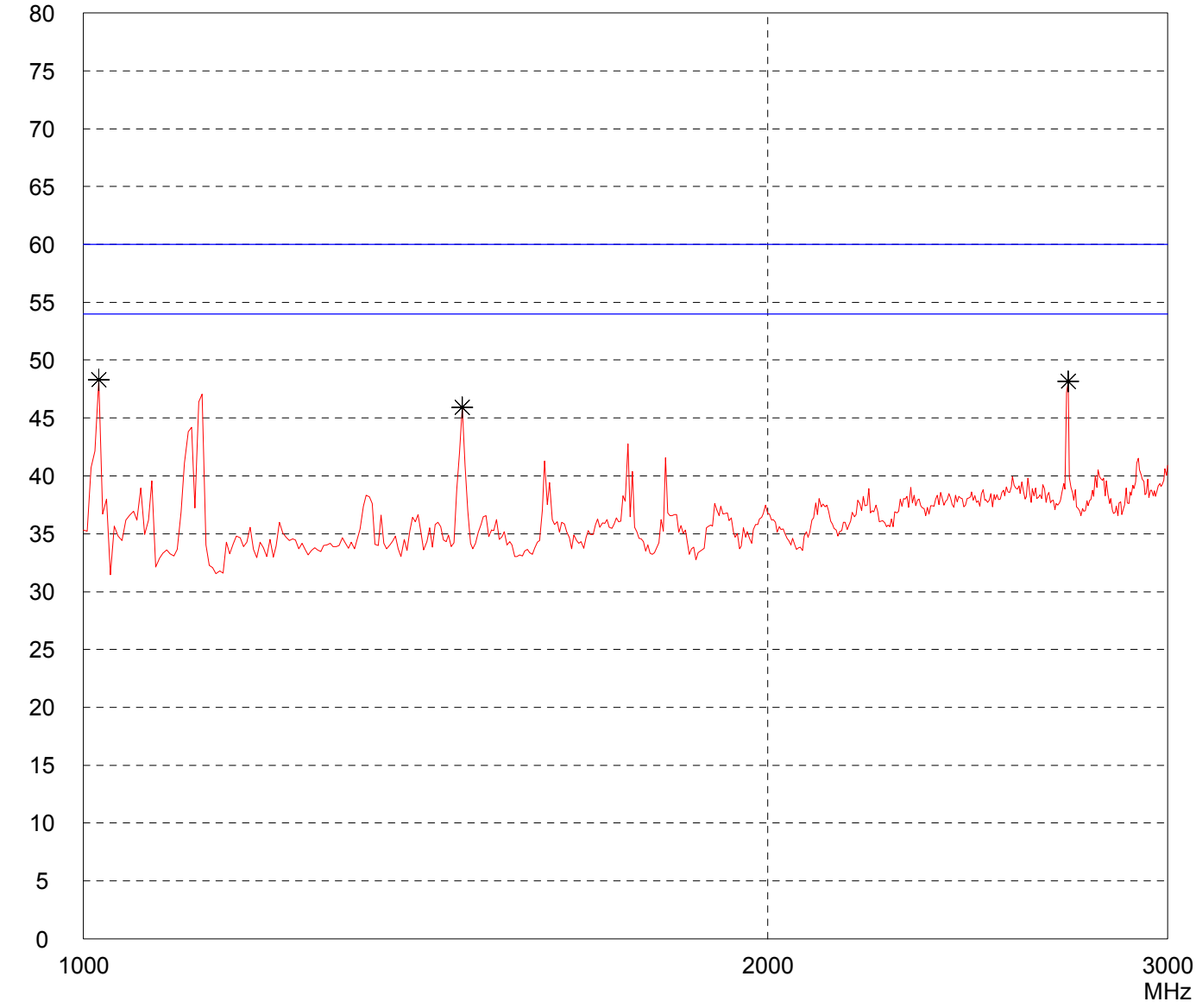


Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 902,20 MHz (Low Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand

dBµV/m Limit1: FCC Part 15 Limit2: FCC part 15 class A Transducer: EMCO 3115



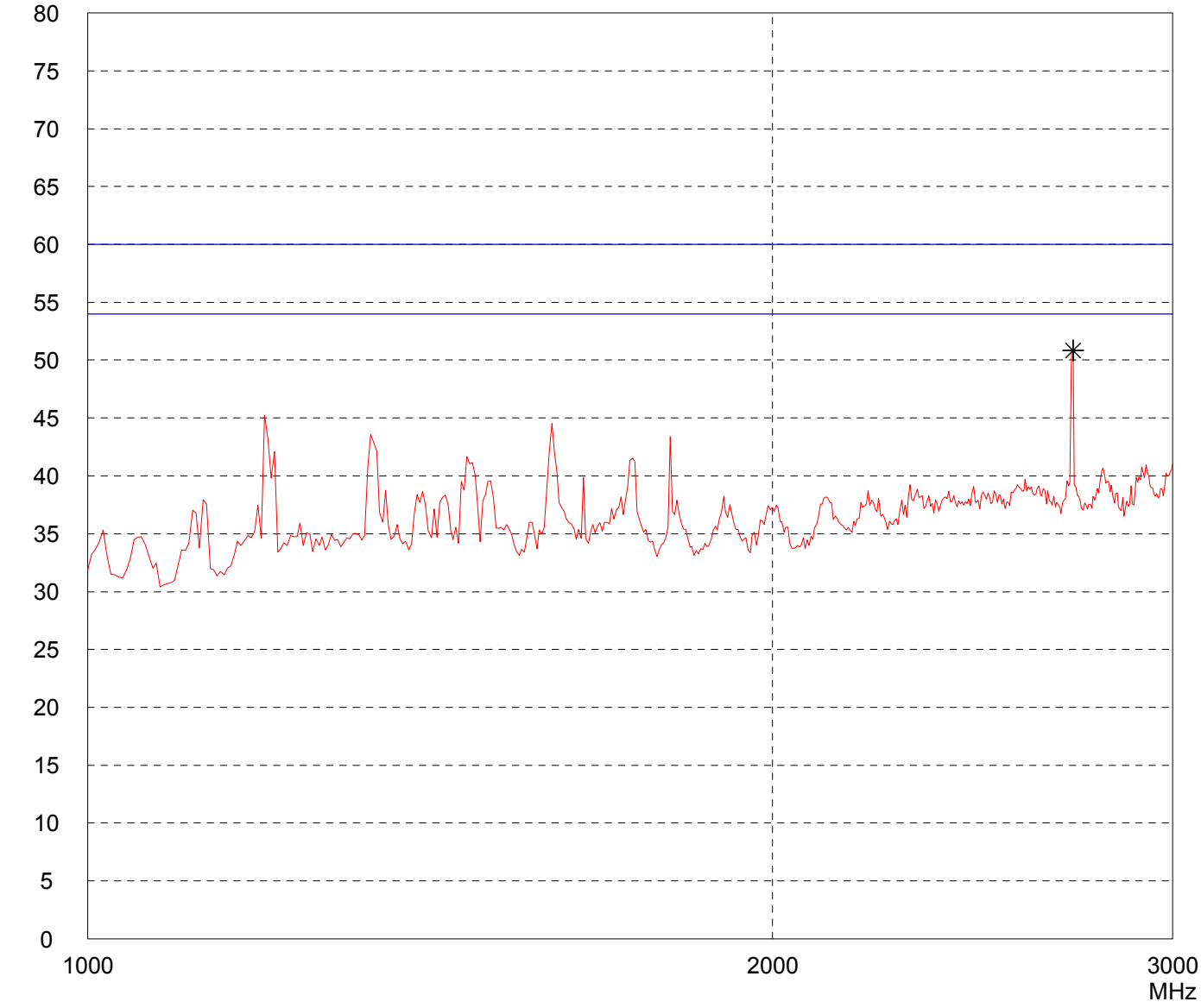
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 902,20 MHz (Low Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

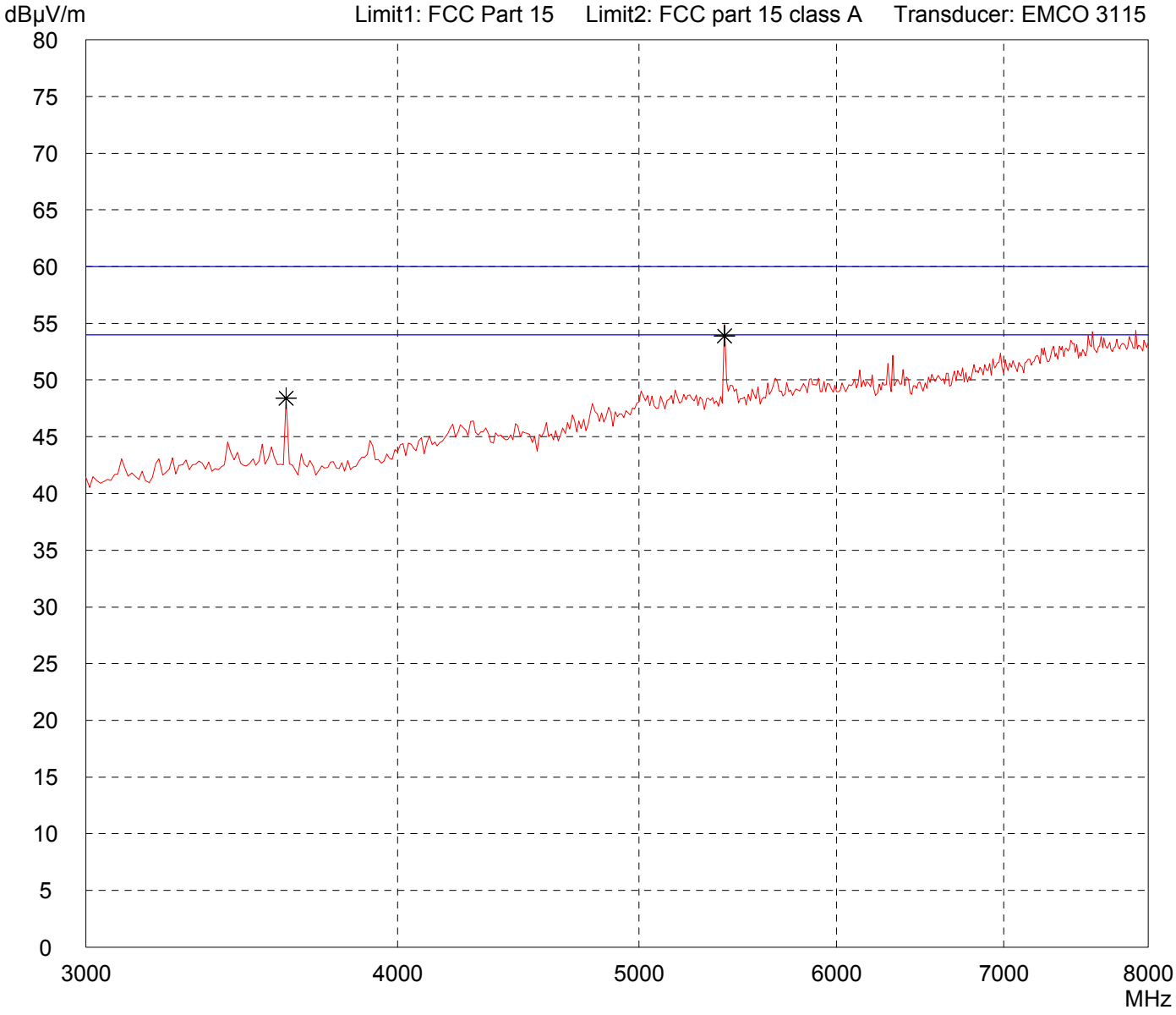
dBµV/m Limit1: FCC Part 15 Limit2: FCC part 15 class A Transducer: EMCO 3115



Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

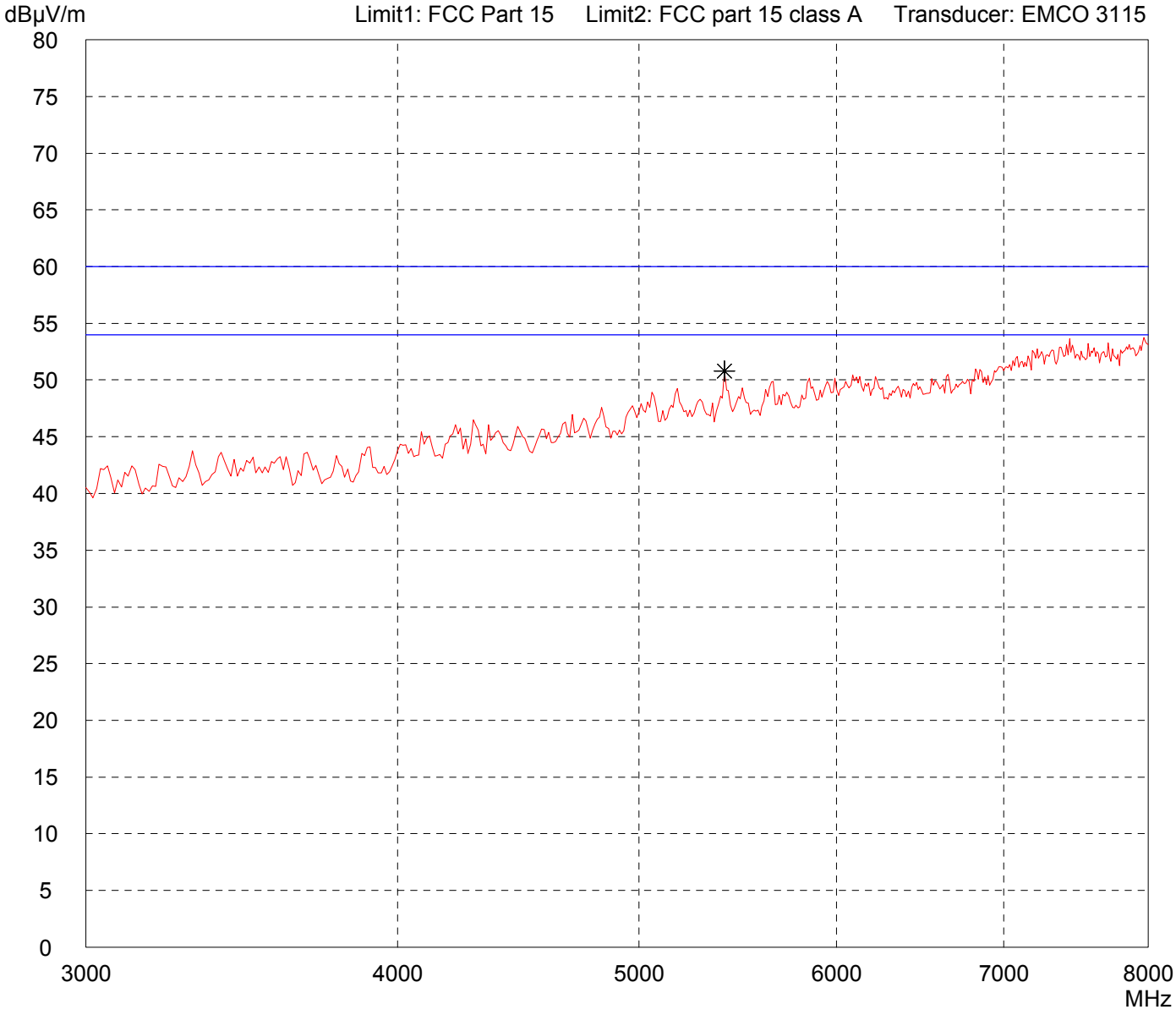
Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 902,20 MHz (Low Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 902,20 MHz (Low Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand



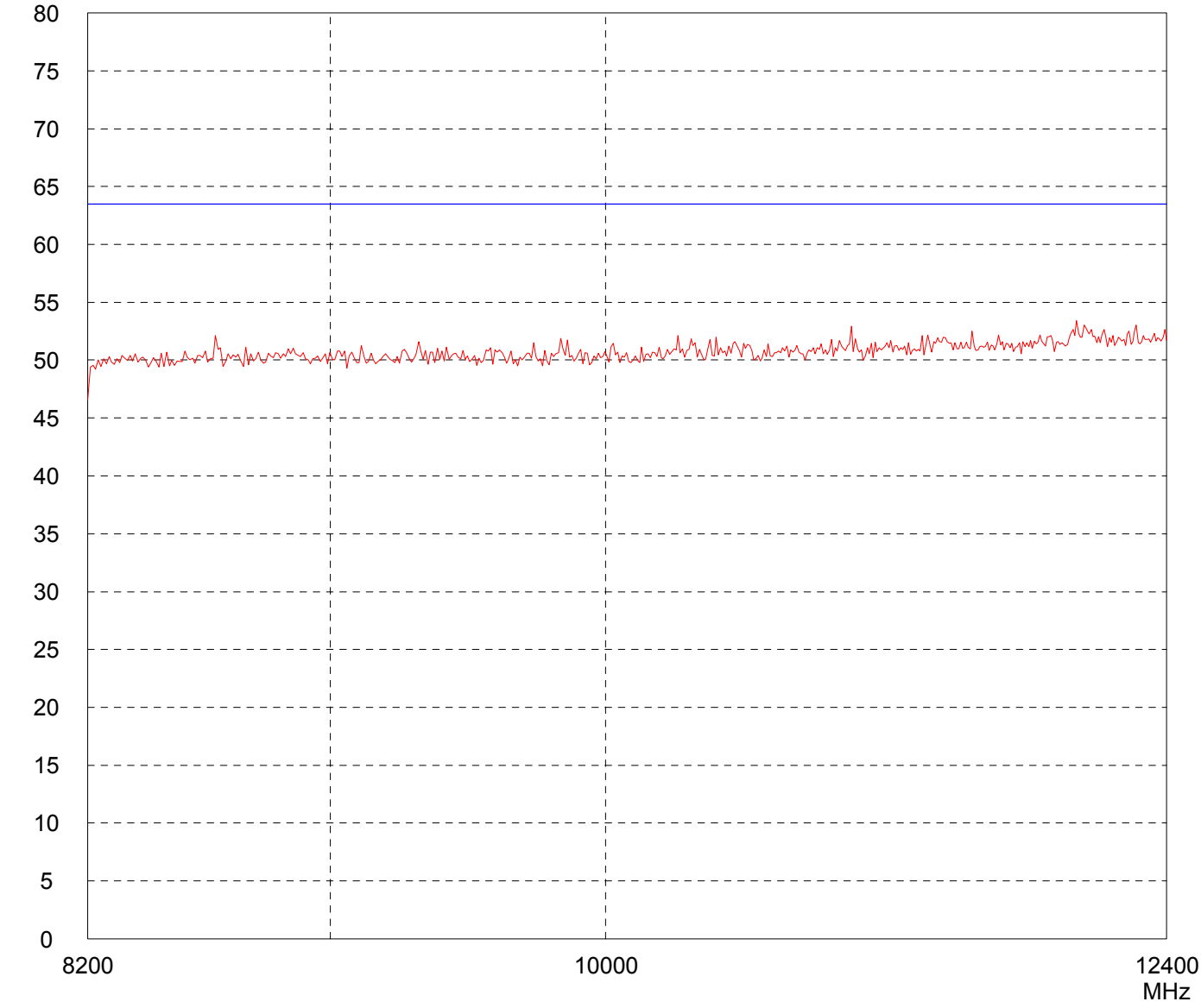
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 902.20 MHz (Low channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 08/29/2006 — Operator: J. Roidt	
Test performed: automatically — File name: default.emi	

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

dBµV/m — Limit1: FCC Part 15 (1 m) — Transducer: EMCO 3160



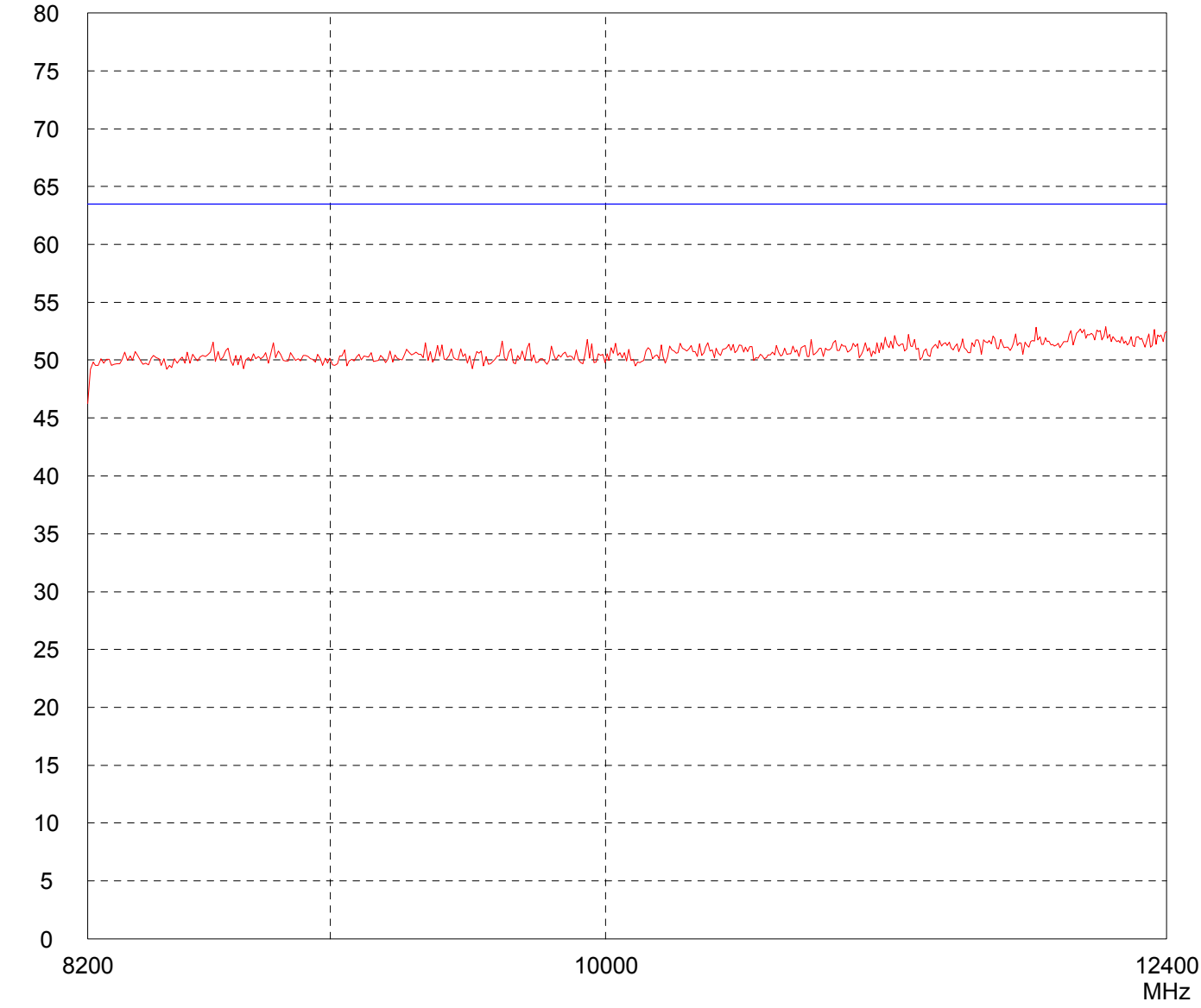
Result: Limit kept	Project file: 56109-60651 — Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 902.20 MHz (Low channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 08/29/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m — Limit1: FCC Part 15 (1 m) — Transducer: EMCO 3160

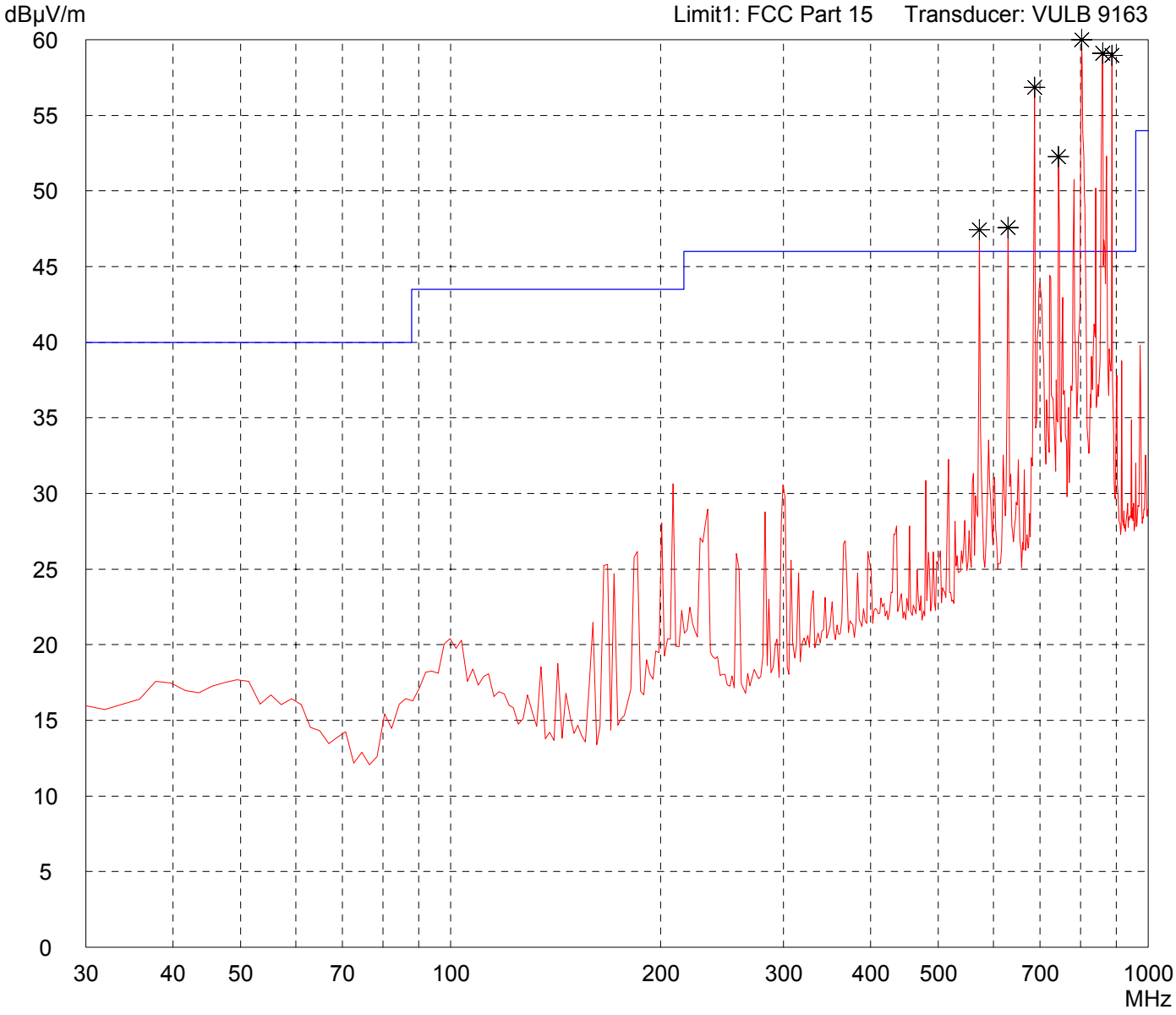


Result: Limit kept	Project file: 56109-60651 Page of Pages

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

Model: AC4490-1000M with Comtelco Yagi YY2283	Comment: - TX at 915.37 MHz (Low Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: 0 dB Margin / 50 Subranges

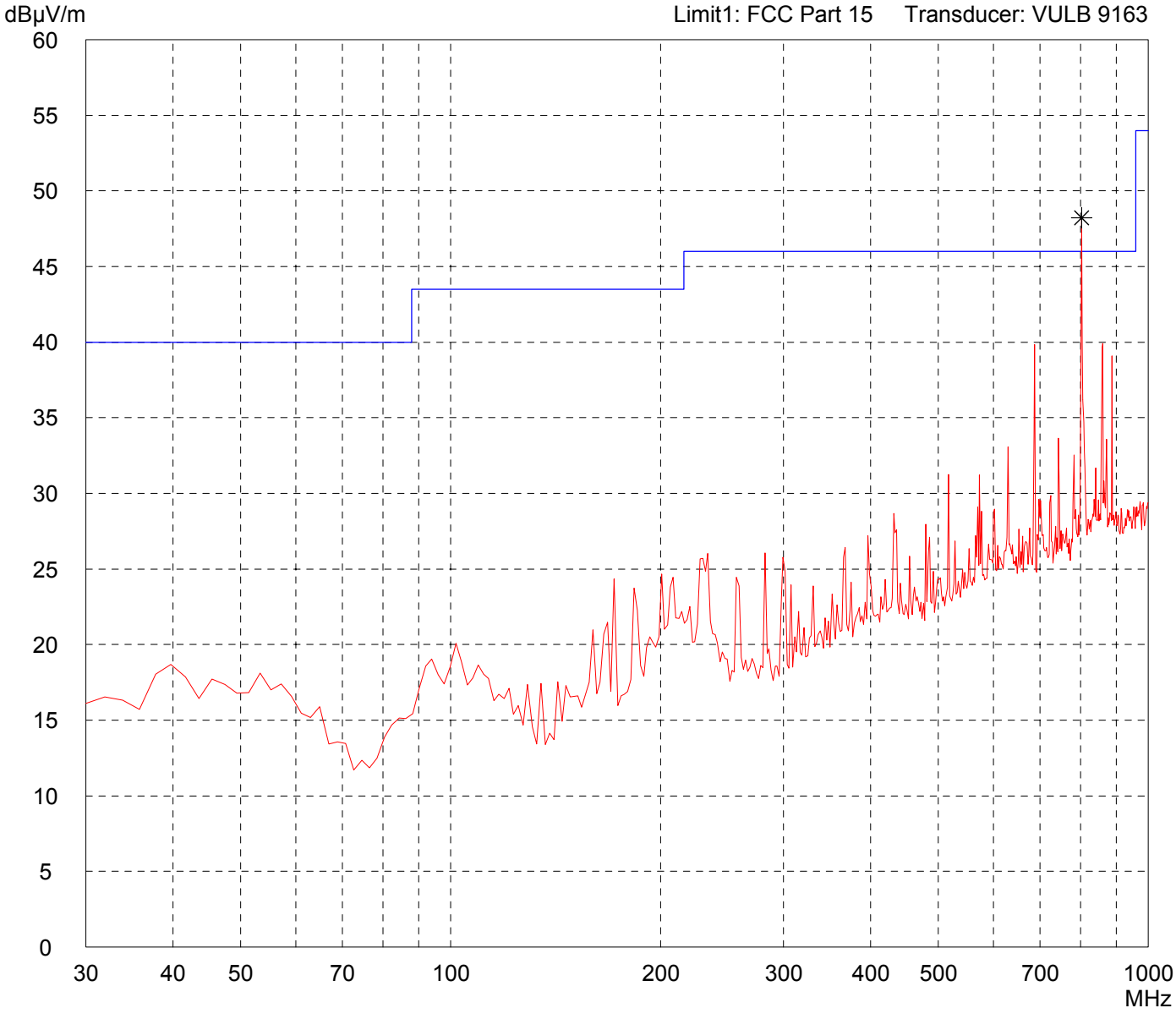


Result: Prescan	Project file: 56109-60651 Page of Pages

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

Model: AC4490-1000M with Comtelco Yagi YY2283	Comment: - TX at 915.37 MHz (Low Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: 0 dB Margin / 50 Subranges



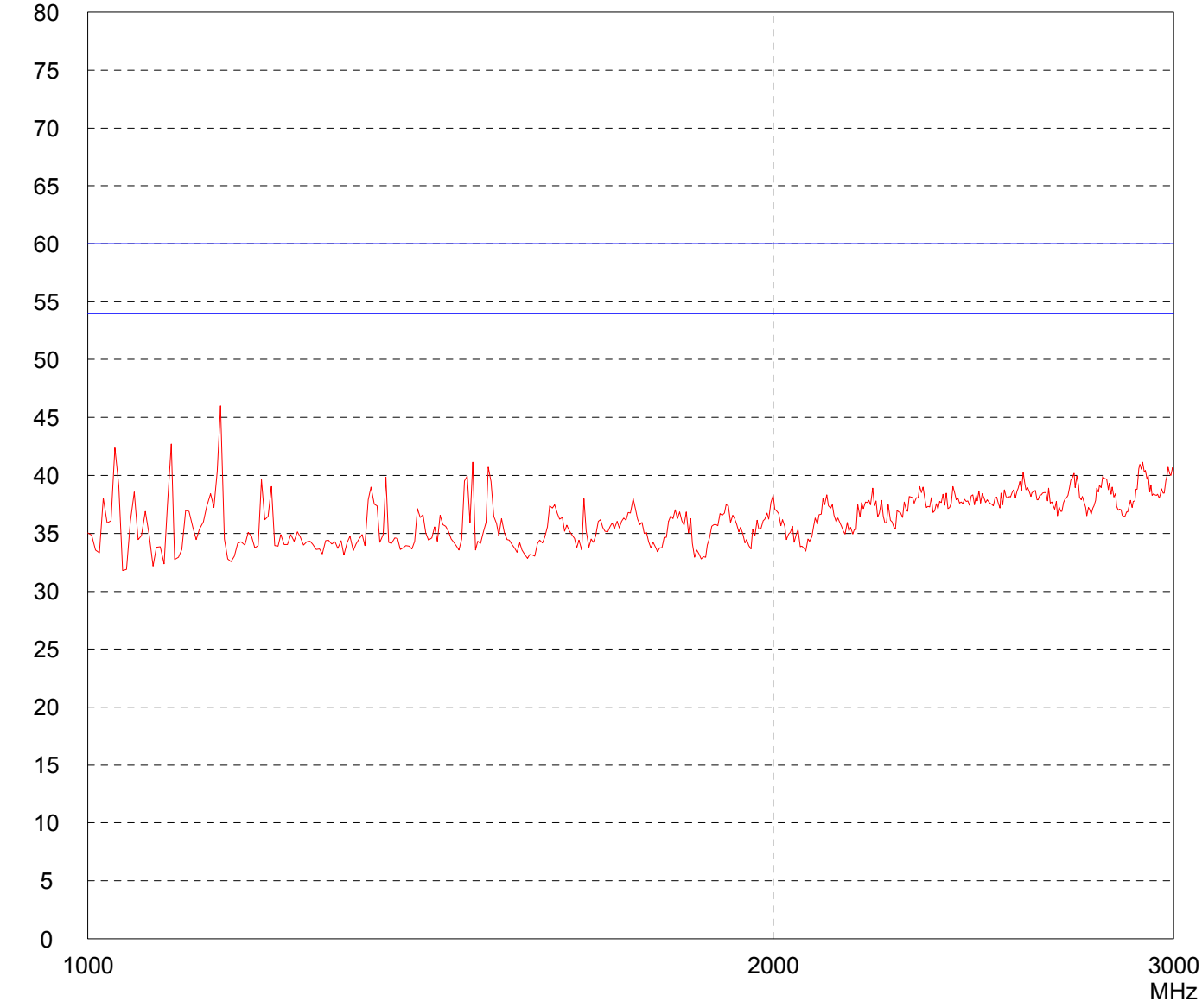
Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 915.37 MHz (Mid Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m Limit1: FCC Part 15 Limit2: FCC part 15 class A Transducer: EMCO 3115



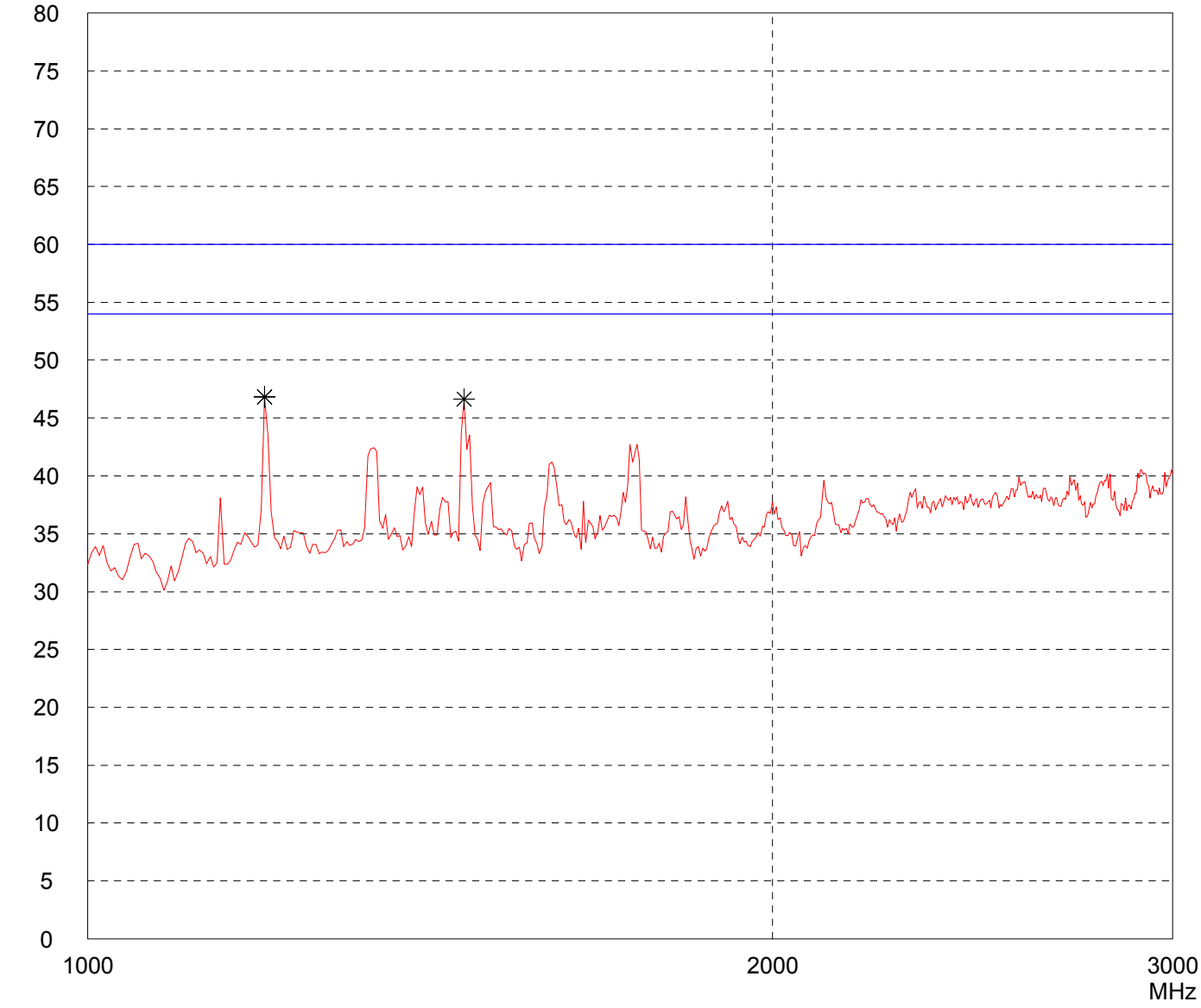
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 915.37 MHz (Mid Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

dBµV/m Limit1: FCC Part 15 Limit2: FCC part 15 class A Transducer: EMCO 3115



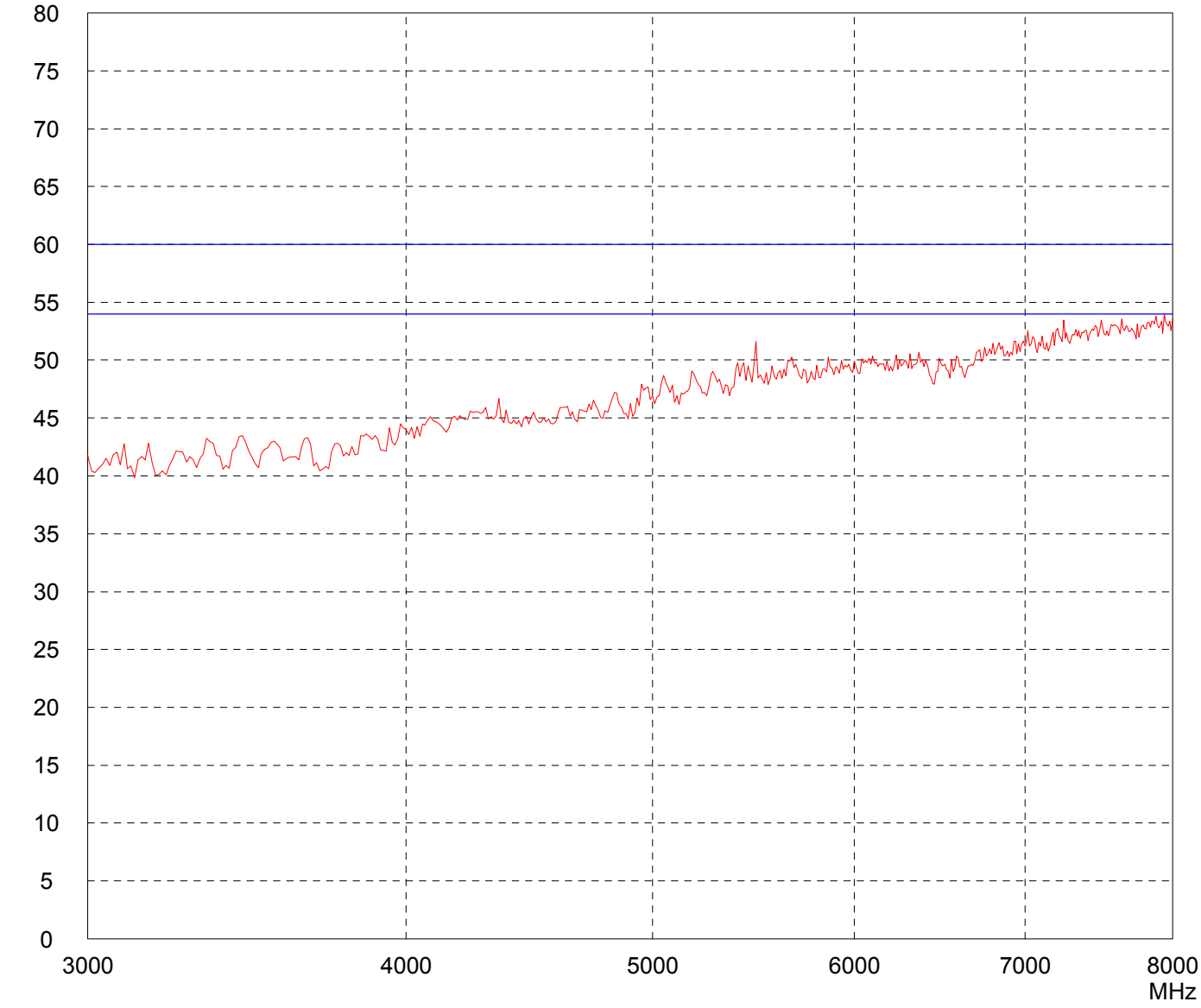
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 915.37 MHz (Mid Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

dBµV/m Limit1: FCC Part 15 Limit2: FCC part 15 class A Transducer: EMCO 3115



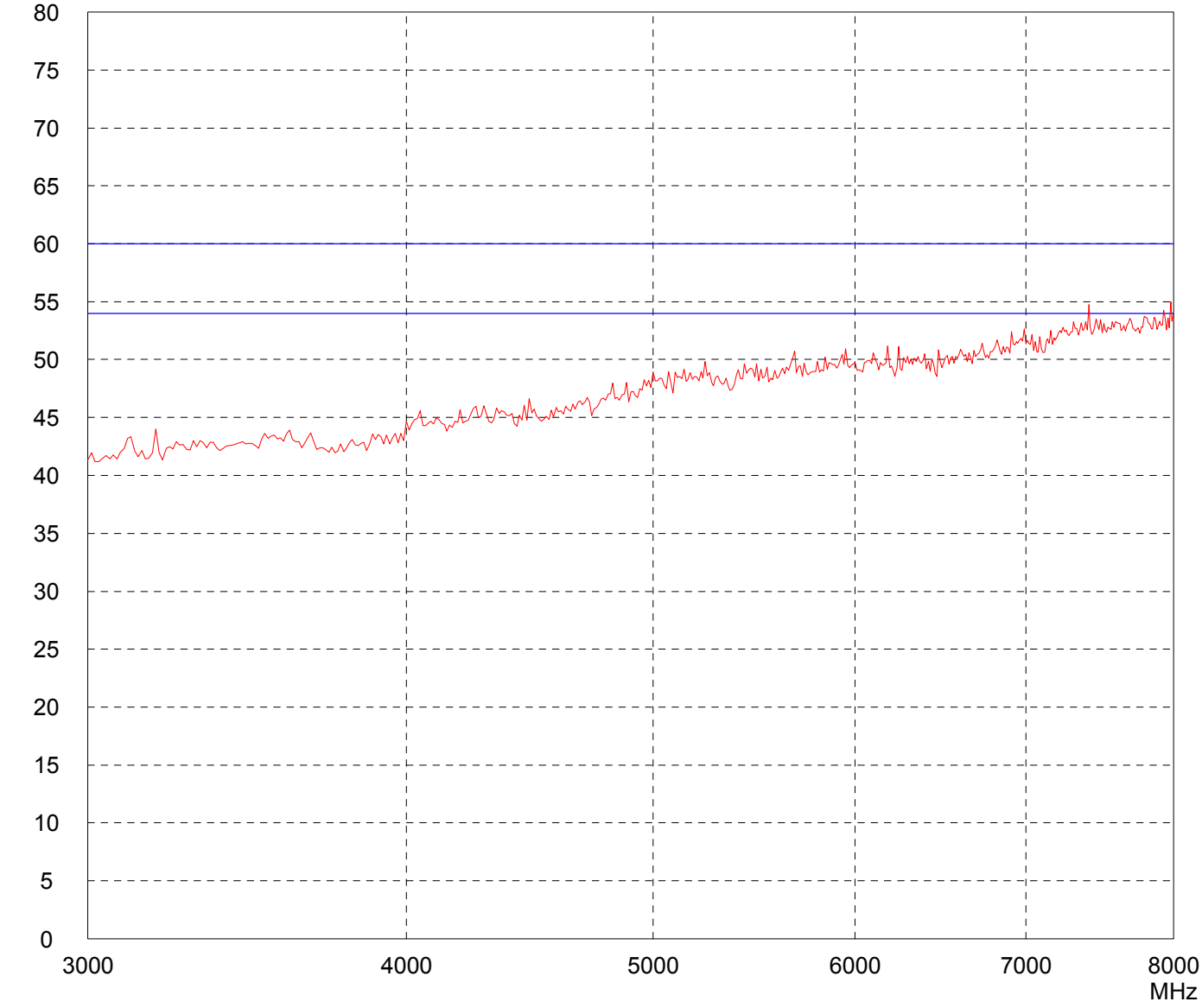
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 915.37 MHz (Middle Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

dBµV/m Limit1: FCC Part 15 Limit2: FCC part 15 class A Transducer: EMCO 3115



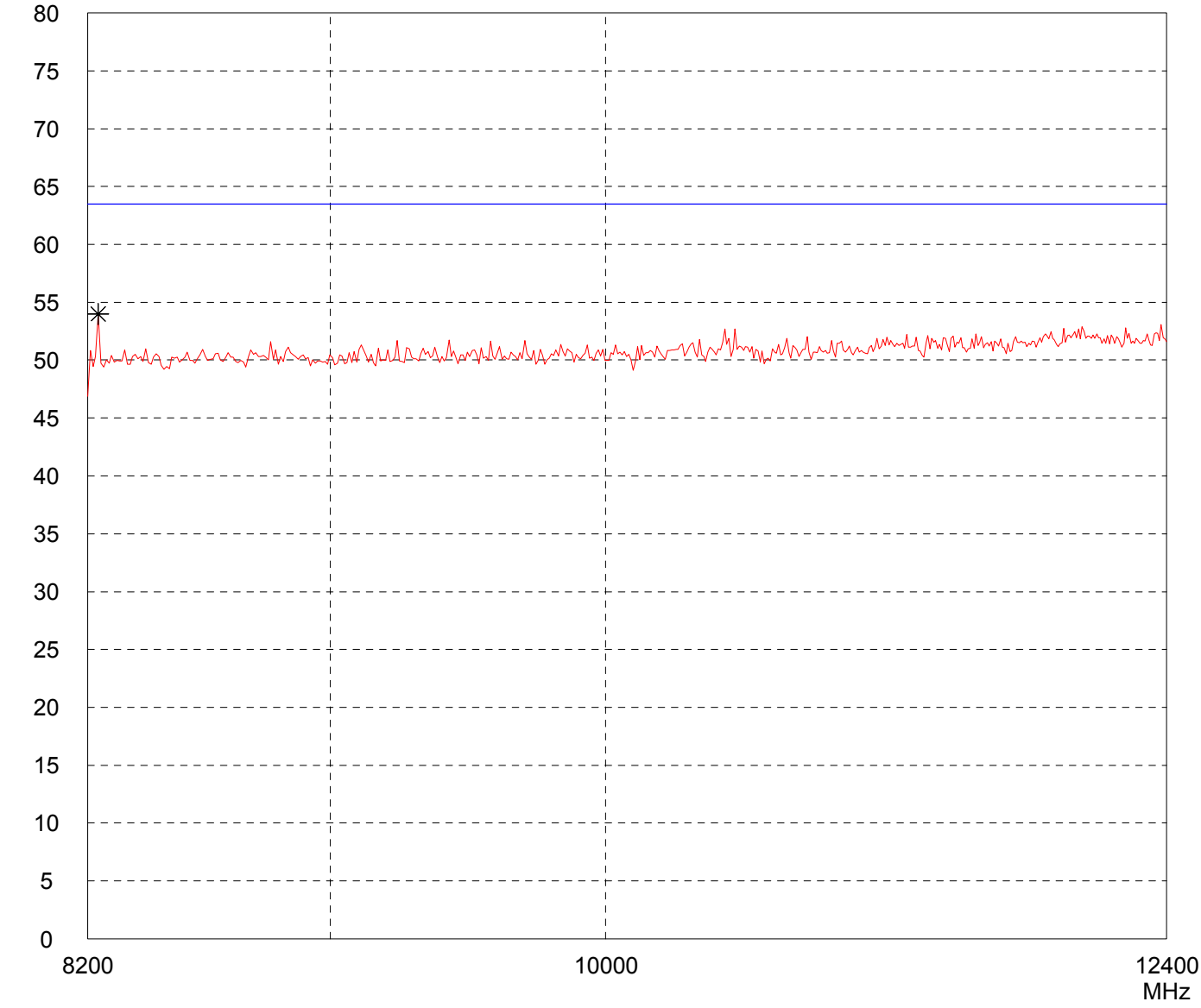
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 915.37 MHz (Mid channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 08/29/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m — Limit1: FCC Part 15 (1 m) — Transducer: EMCO 3160



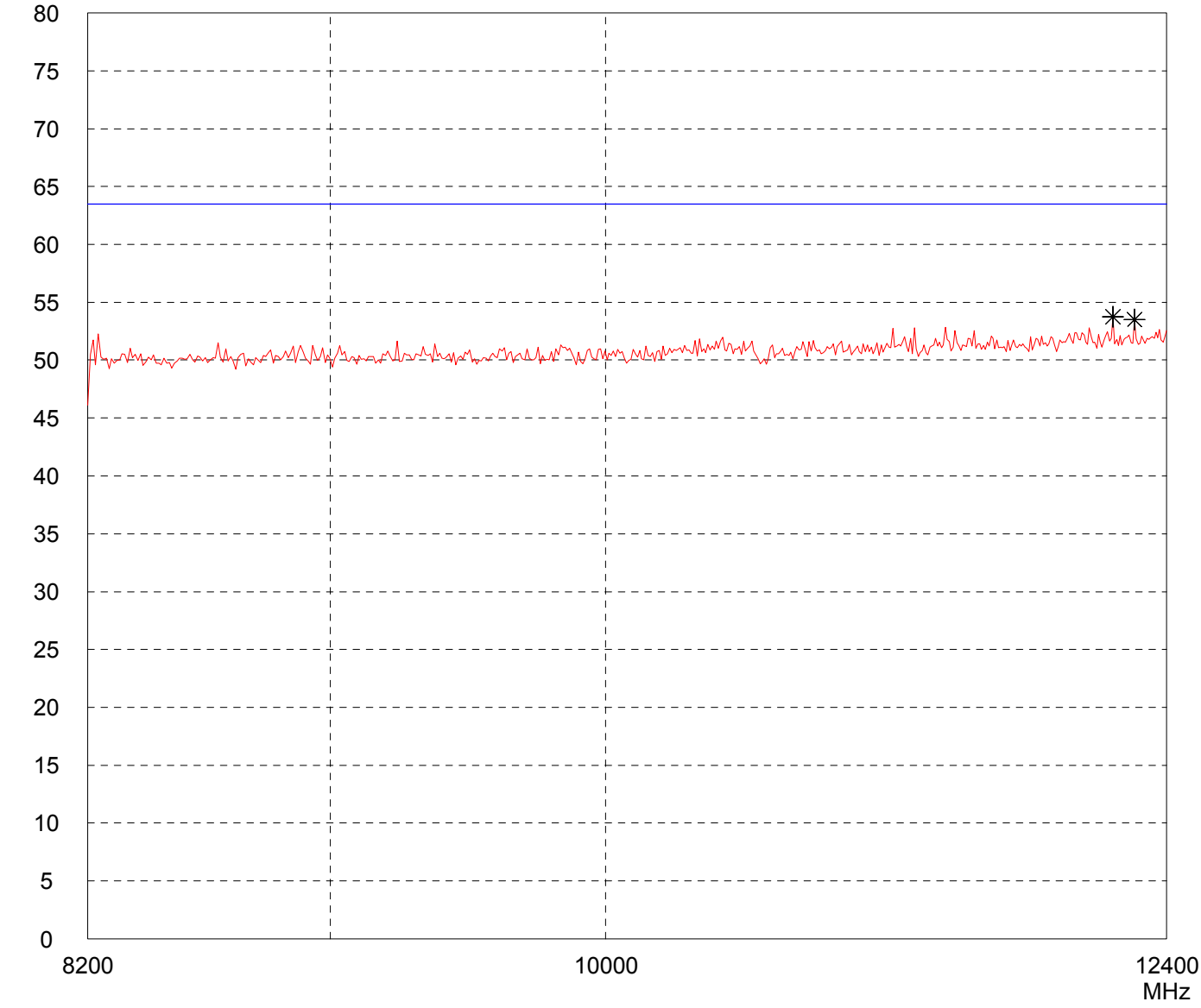
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 915.37 MHz (Mid channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 08/29/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m — Limit1: FCC Part 15 (1 m) — Transducer: EMCO 3160

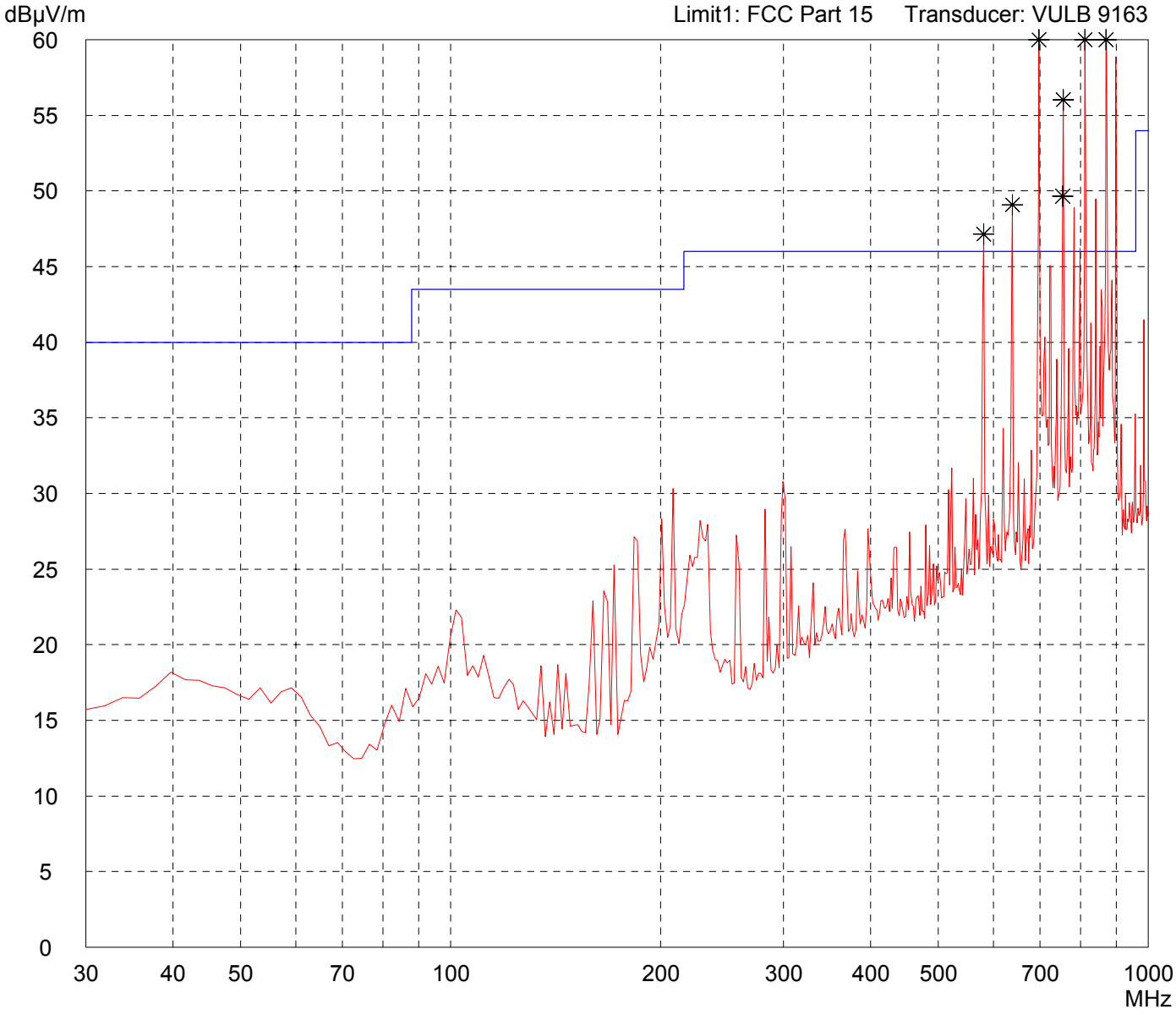


Result: Limit kept	Project file: 56109-60651 Page of Pages

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

Model: AC4490-1000M with Comtelco Yagi YY2283	Comment: - TX at 927.48 MHz (High Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

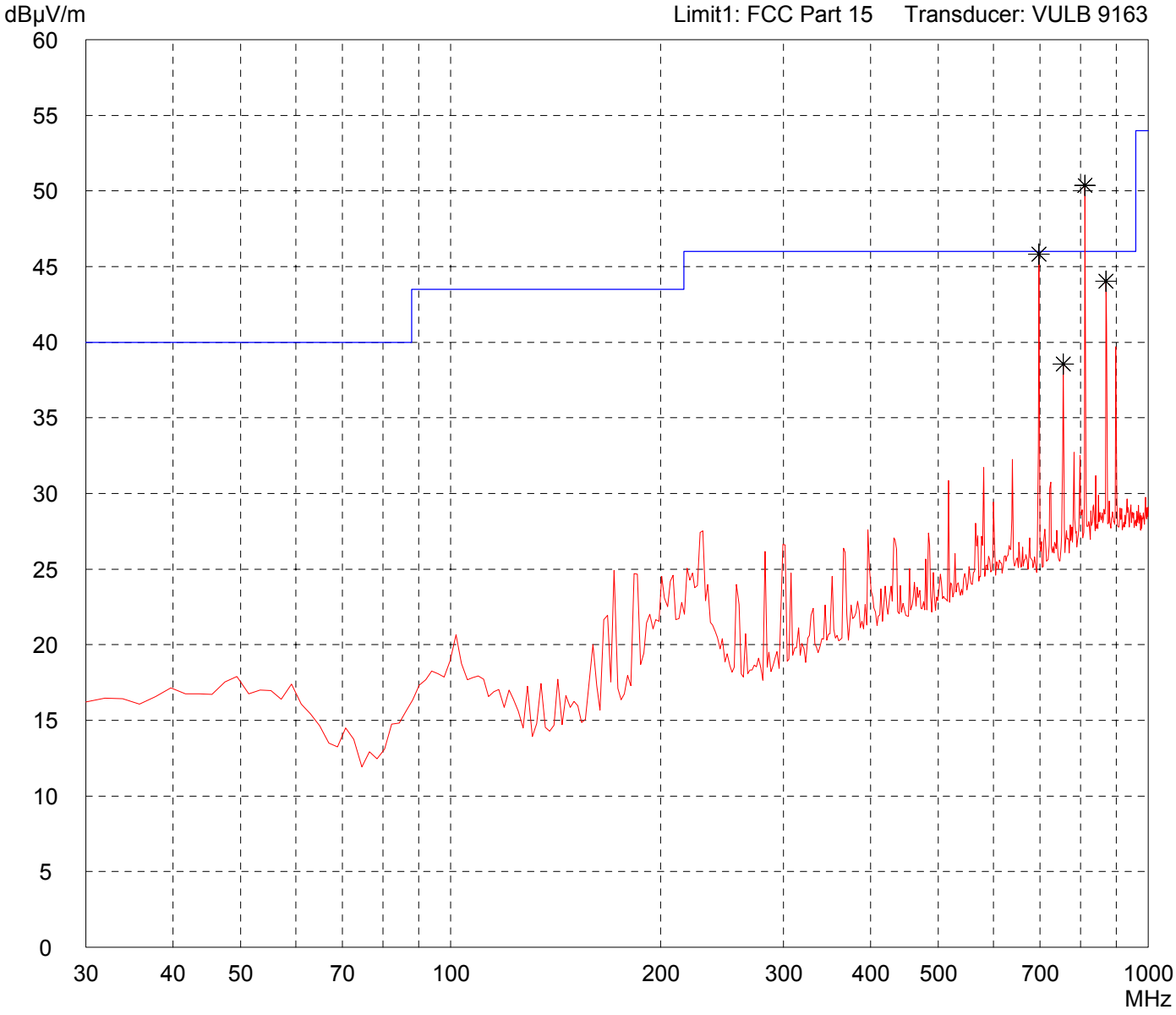


Result: Prescan	Project file: 56109-60651 Page of Pages

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

Model: AC4490-1000M with Comtelco Yagi YY2283	Comment: - TX at 927.48 MHz (High Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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



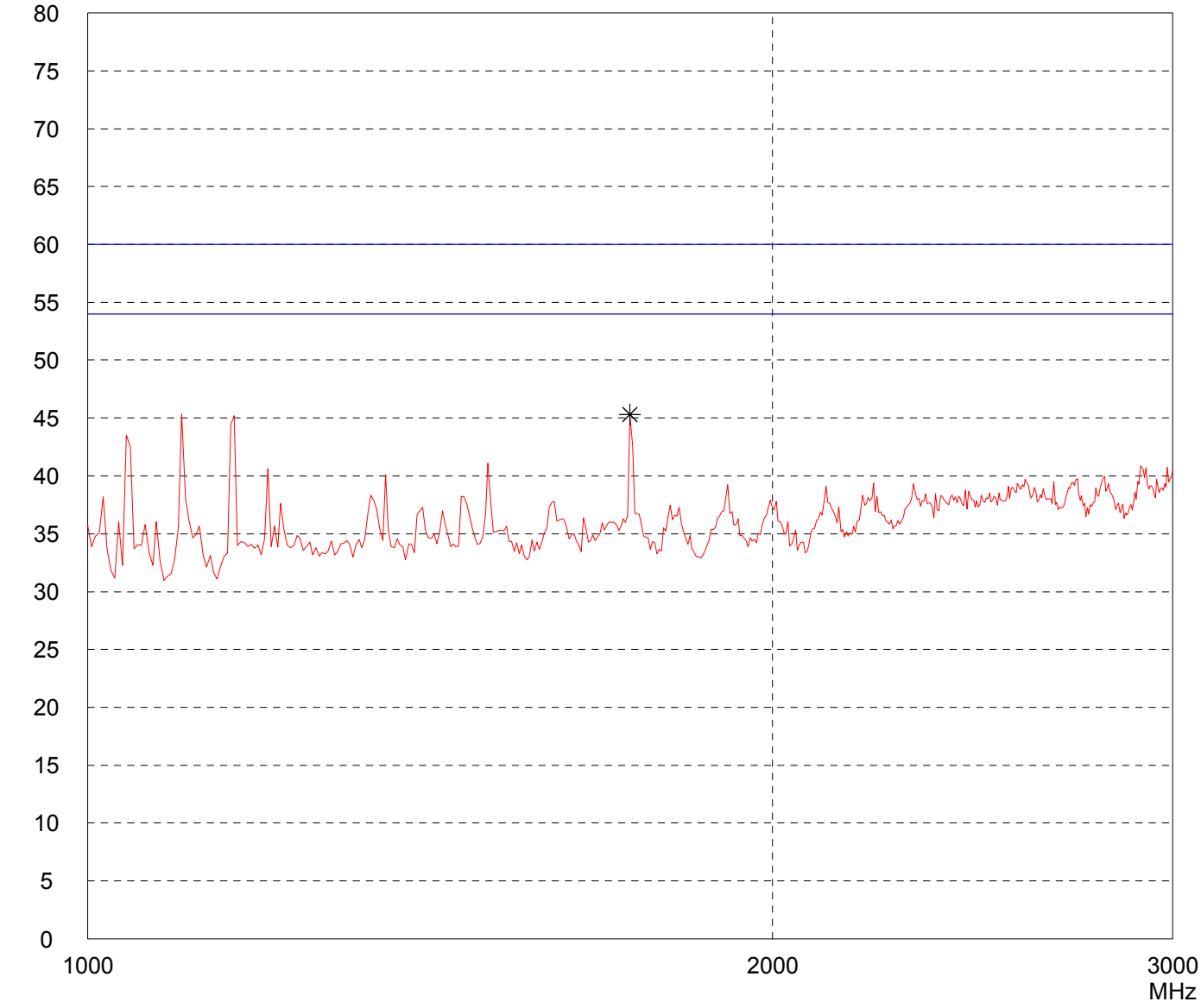
Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 927.48 MHz (High Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

dBµV/m Limit1: FCC Part 15 Limit2: FCC part 15 class A Transducer: EMCO 3115



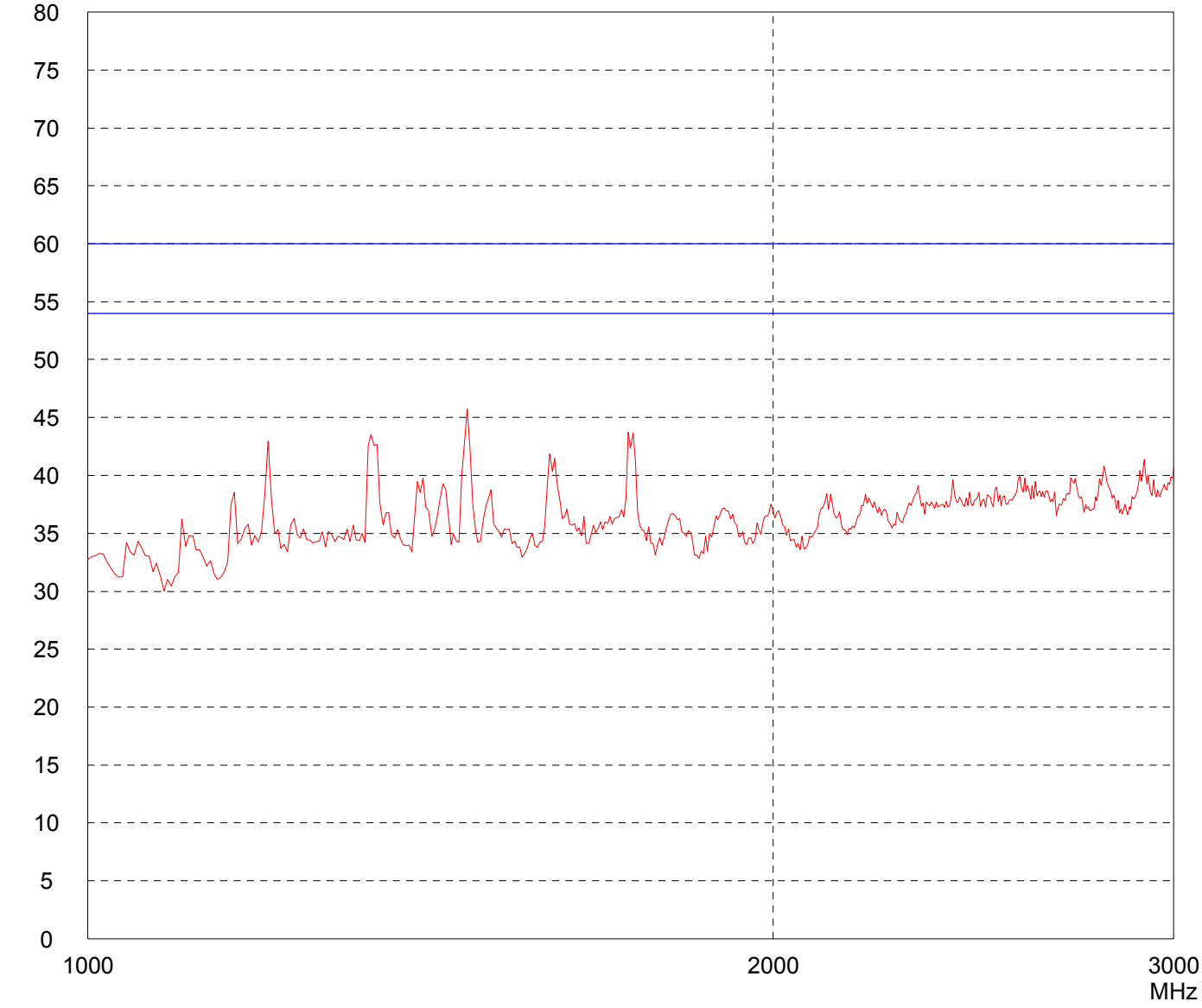
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 927.48 MHz (High Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m Limit1: FCC Part 15 Limit2: FCC part 15 class A Transducer: EMCO 3115

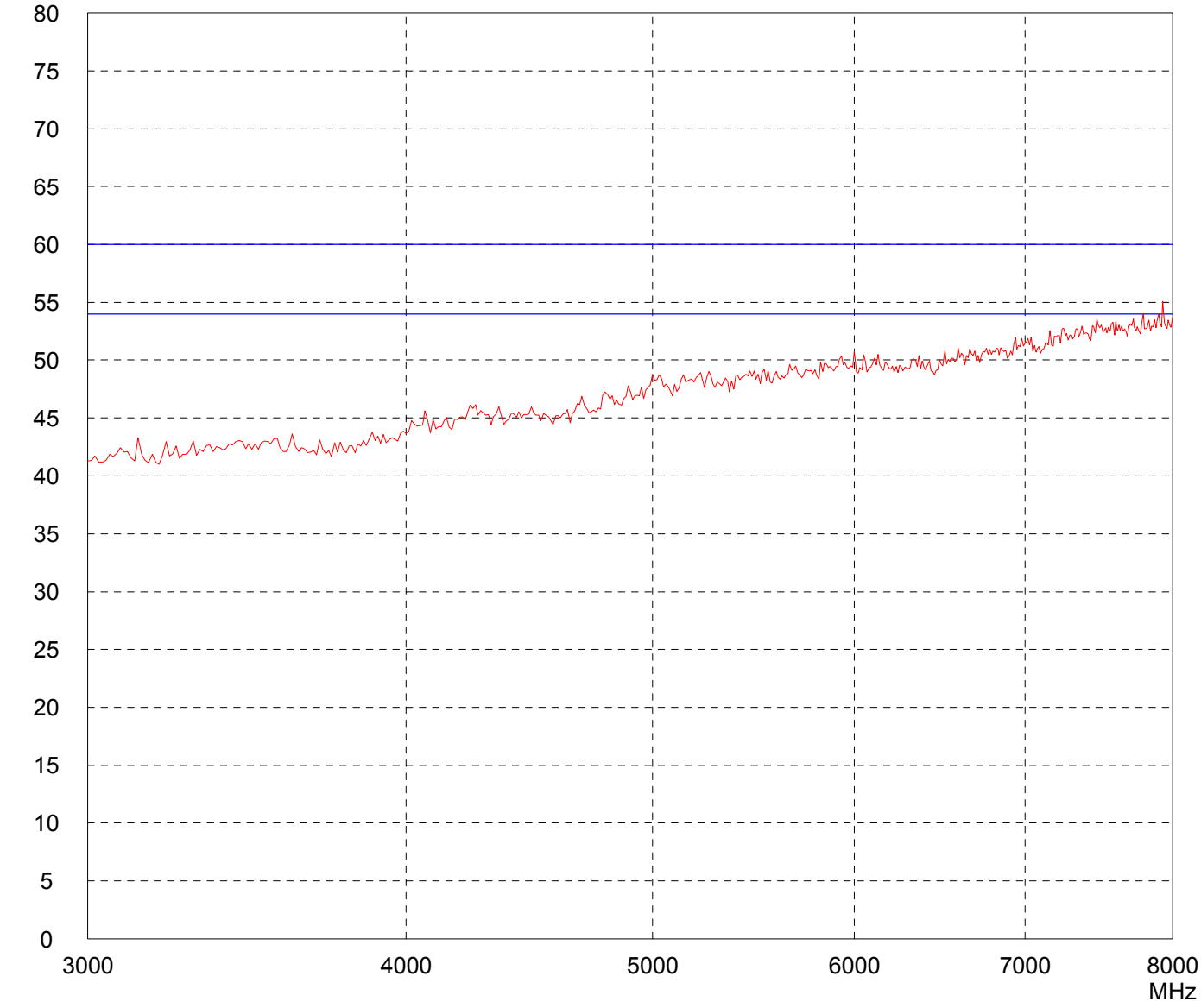


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 927.48 MHz (High Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand

dBµV/m Limit1: FCC Part 15 Limit2: FCC part 15 class A Transducer: EMCO 3115

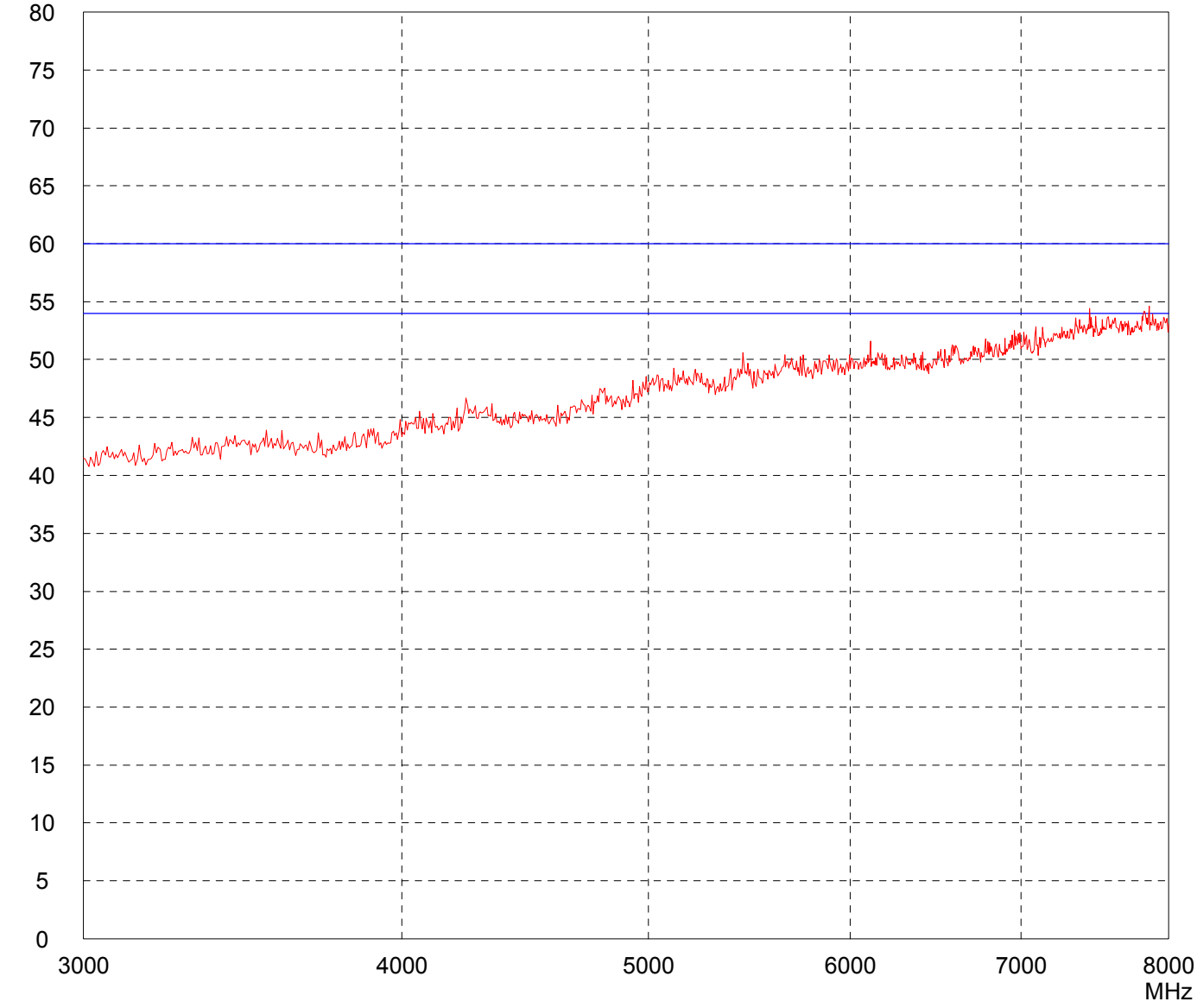


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 927.48 MHz (High Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand

dBµV/m Limit1: FCC Part 15 Limit2: FCC part 15 class A Transducer: EMCO 3115



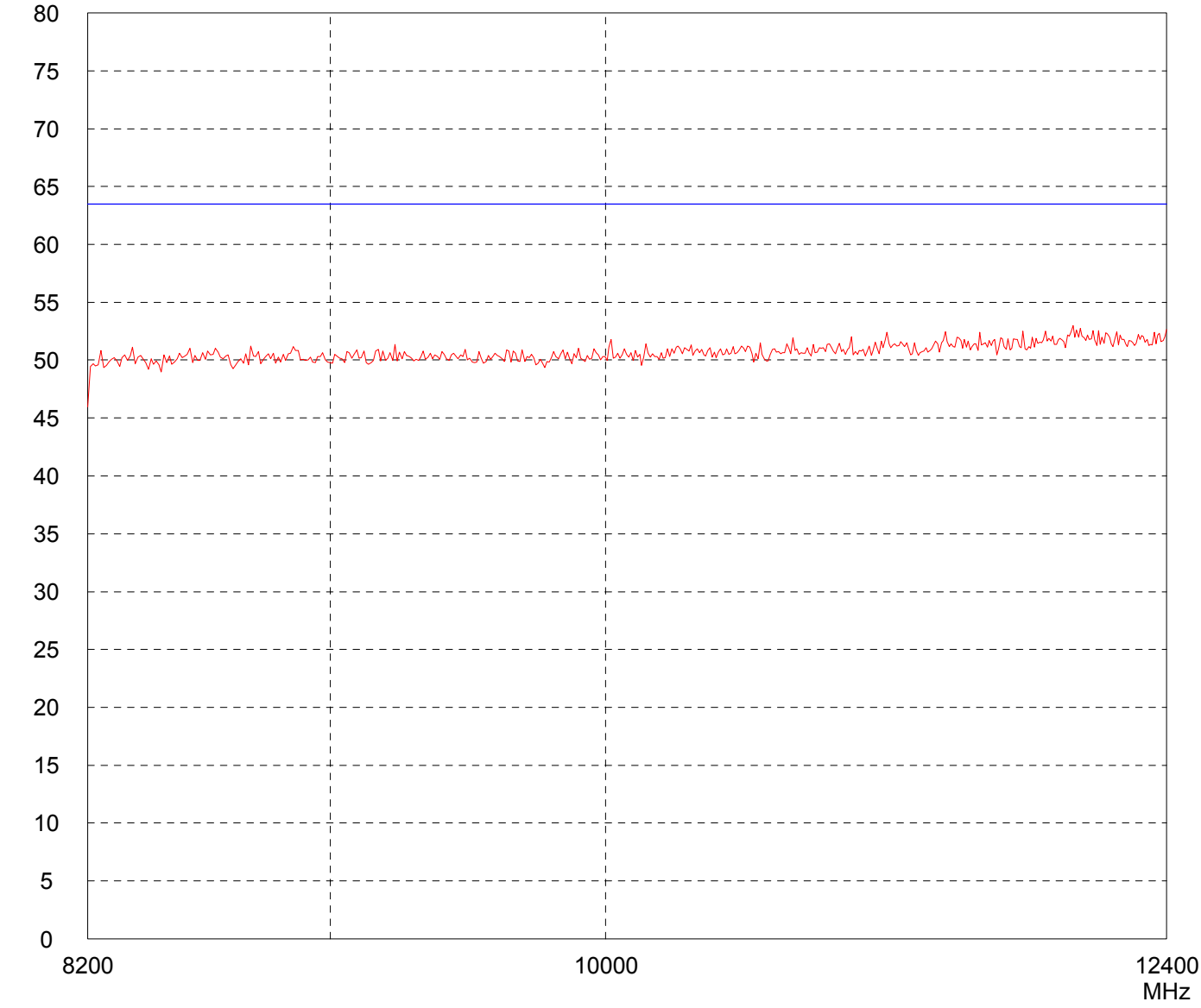
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 927.48 MHz (High channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 08/29/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m — Limit1: FCC Part 15 (1 m) — Transducer: EMCO 3160



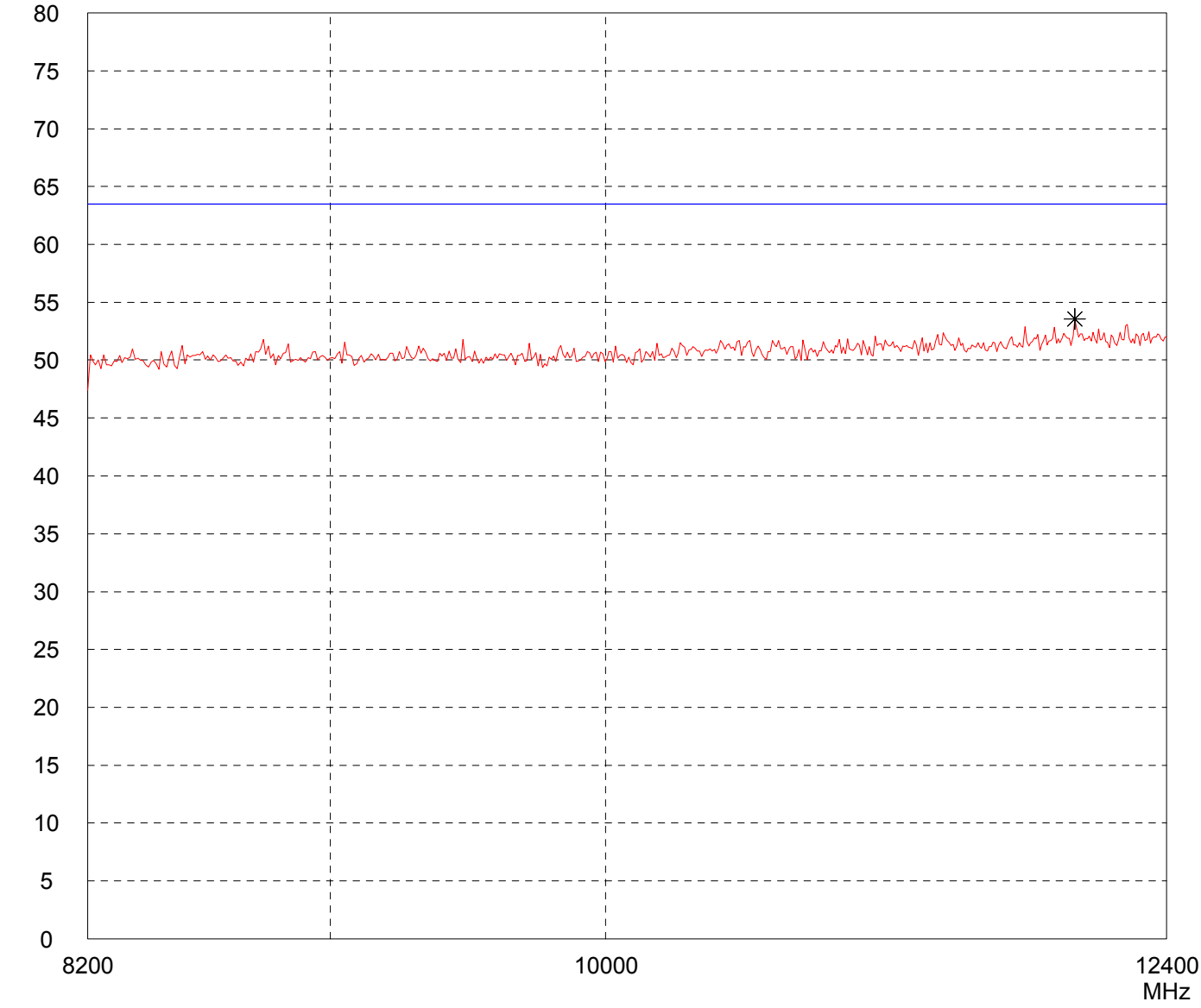
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - TX Mode at 927.48 MHz (High channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 08/29/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m — Limit1: FCC Part 15 (1 m) — Transducer: EMCO 3160

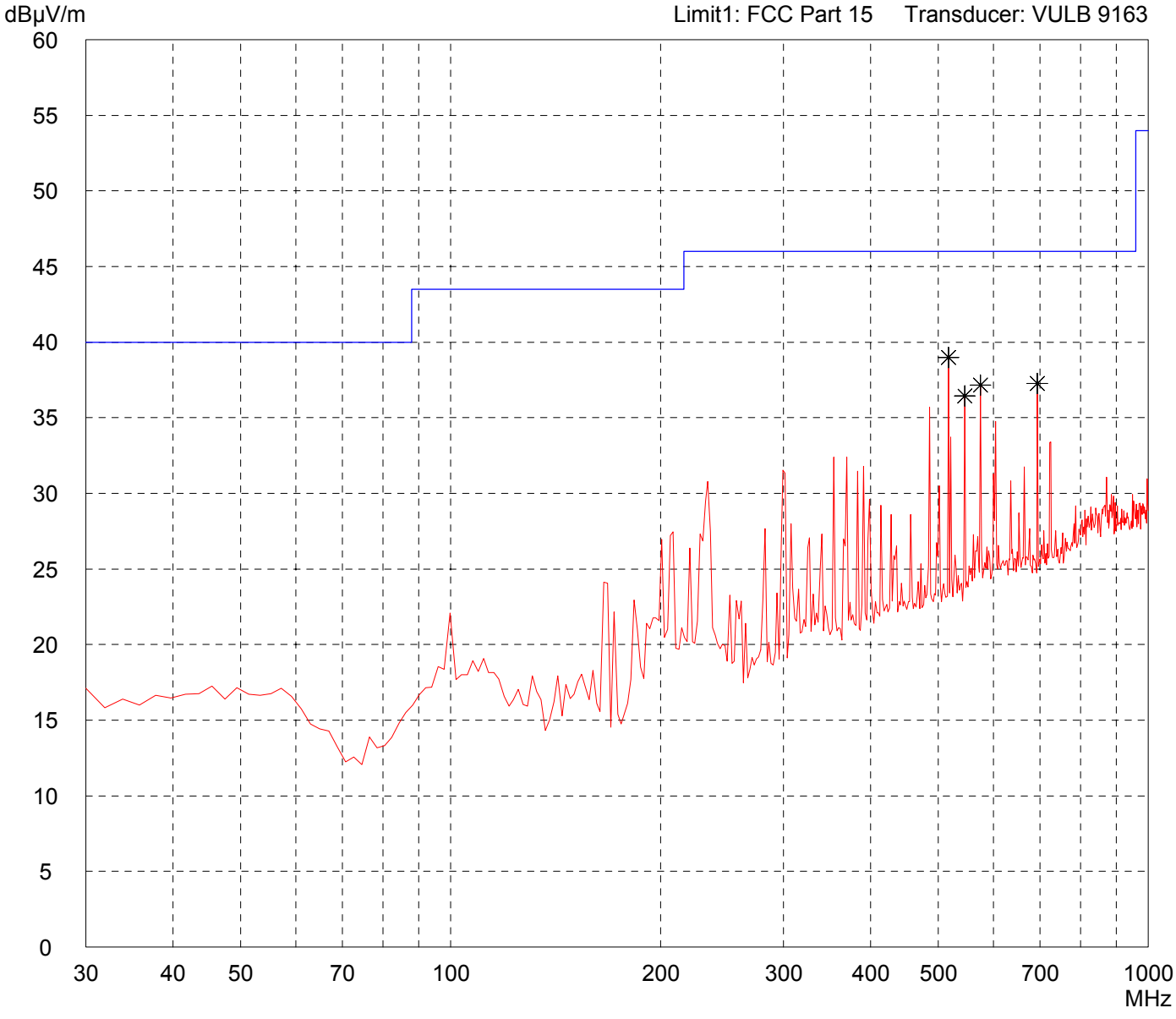


Result: Limit kept	Project file: 56109-60651 Page of Pages

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

Model: AC 4490-1000 with Comtelco Yagi Y2283	Comment: - CW RX at 915.37 MHz (Mid Channel) -
Serial no.: N/A	
Applicant: Aerocomm, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/24/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

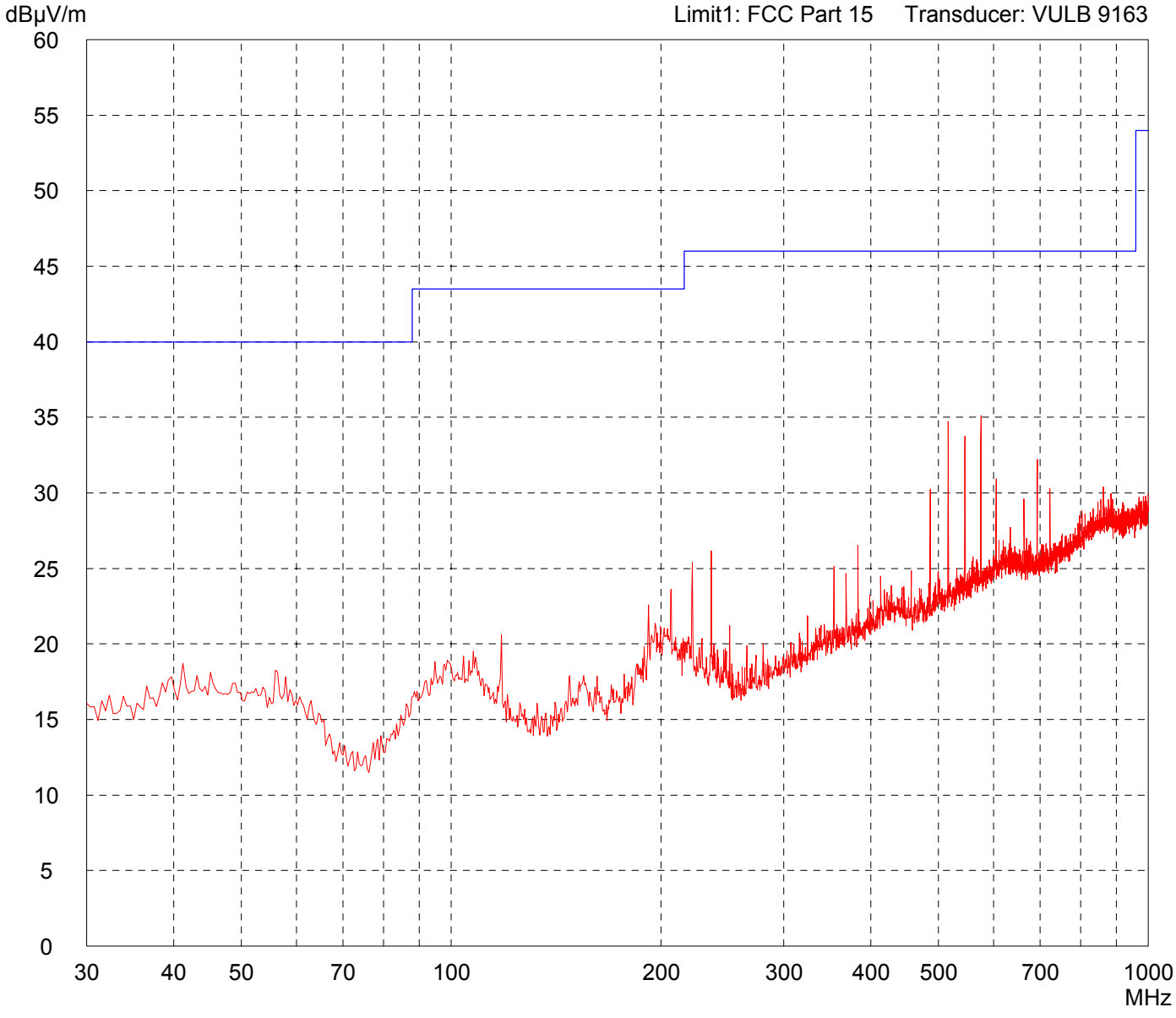


Result: Limit kept	Project file: 56109-60651 / Page of Pages

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

Model: AC 4490-1000 with Comtelco Yagi Y2283	Comment: - CW RX at 915.37 MHz (Mid Channel) -
Serial no.: N/A	
Applicant: Aerocomm, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/24/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

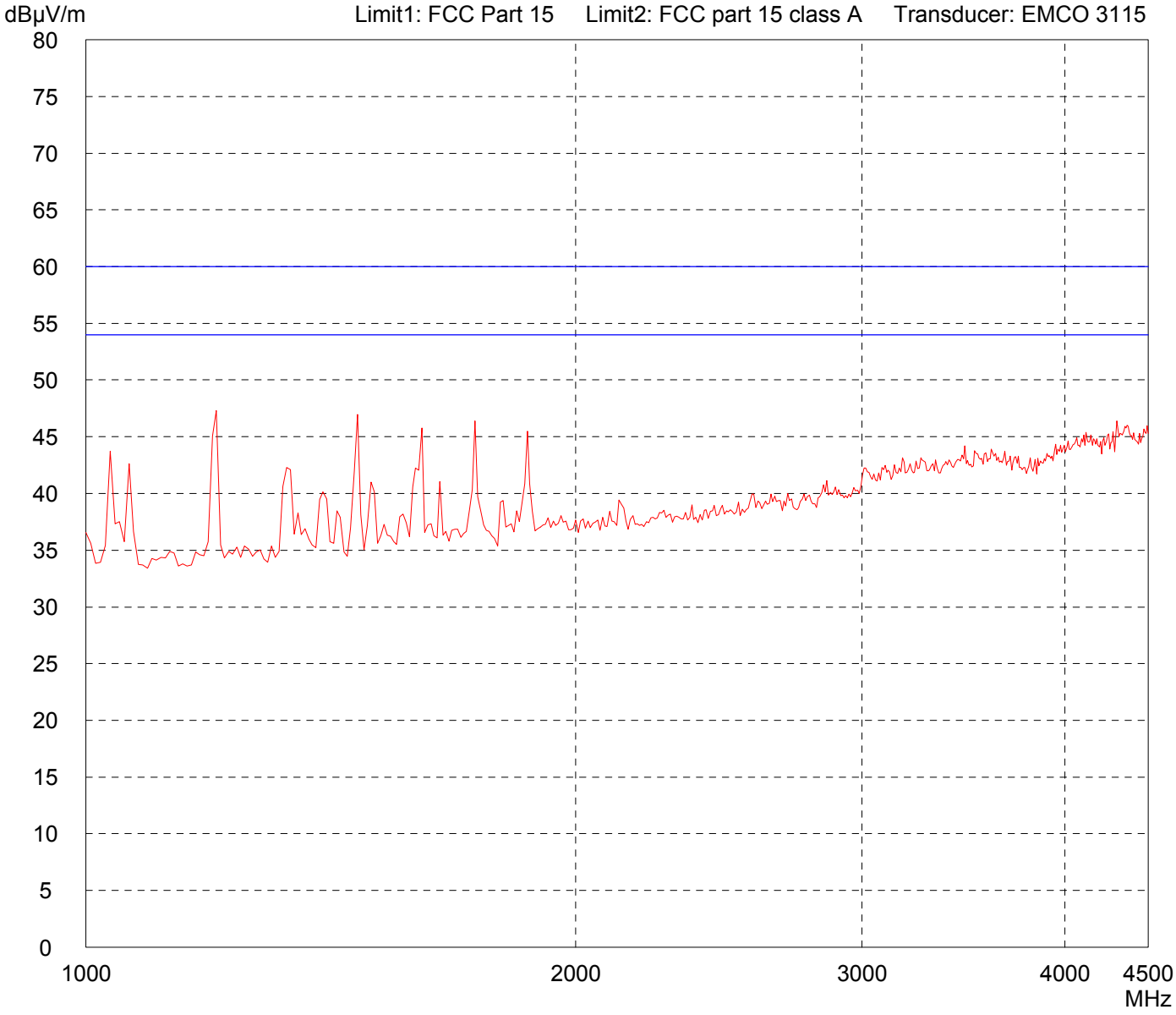


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 4.5 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - RX Mode at 915.37 MHz (Middle Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

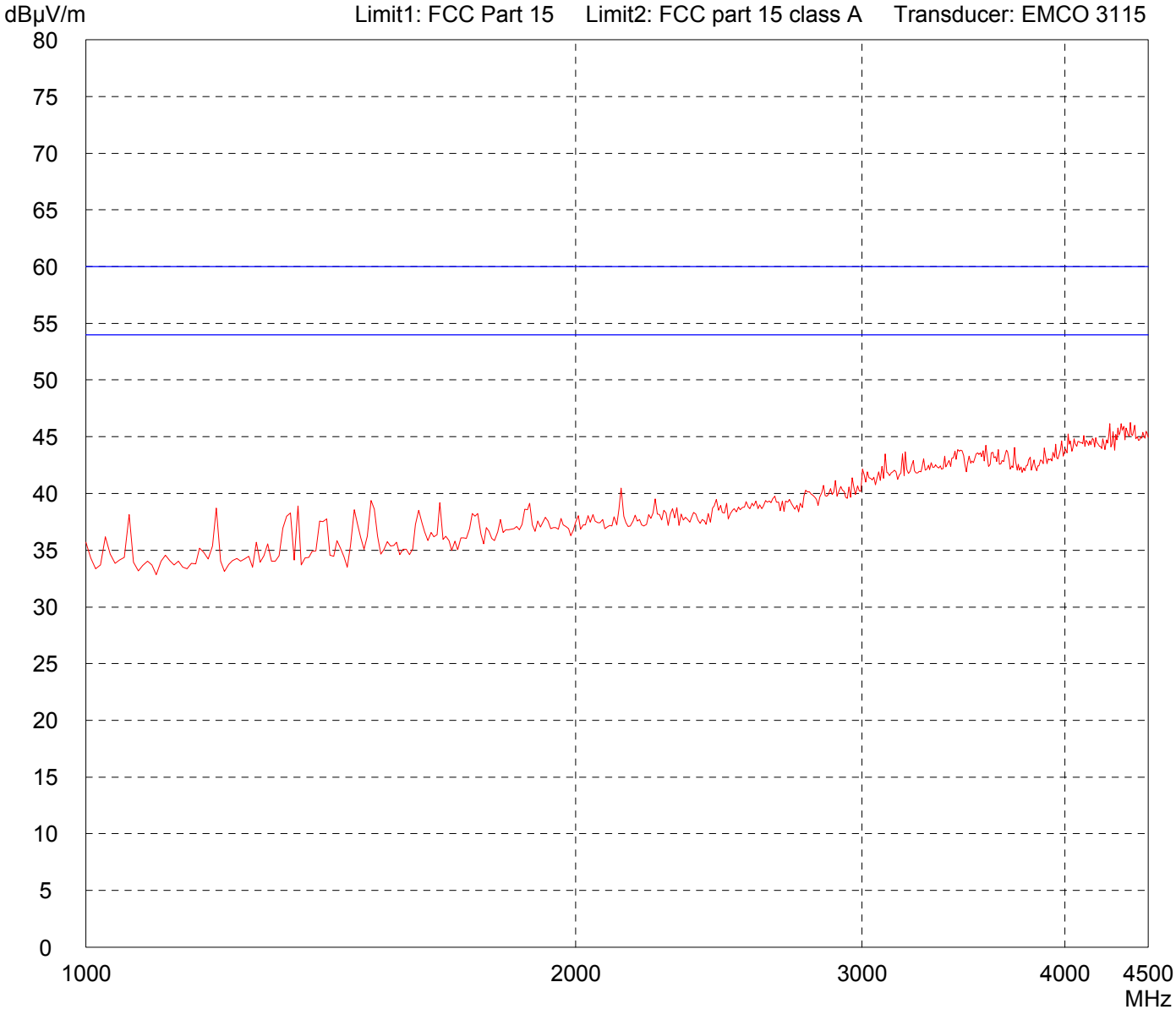


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 4.5 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Comtelco Yagi Y2283	Comment: - RX Mode at 915.37 MHz (Middle Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/25/2006 — Operator: J. Roidt	
Test performed: automatically — File name: default.emi	

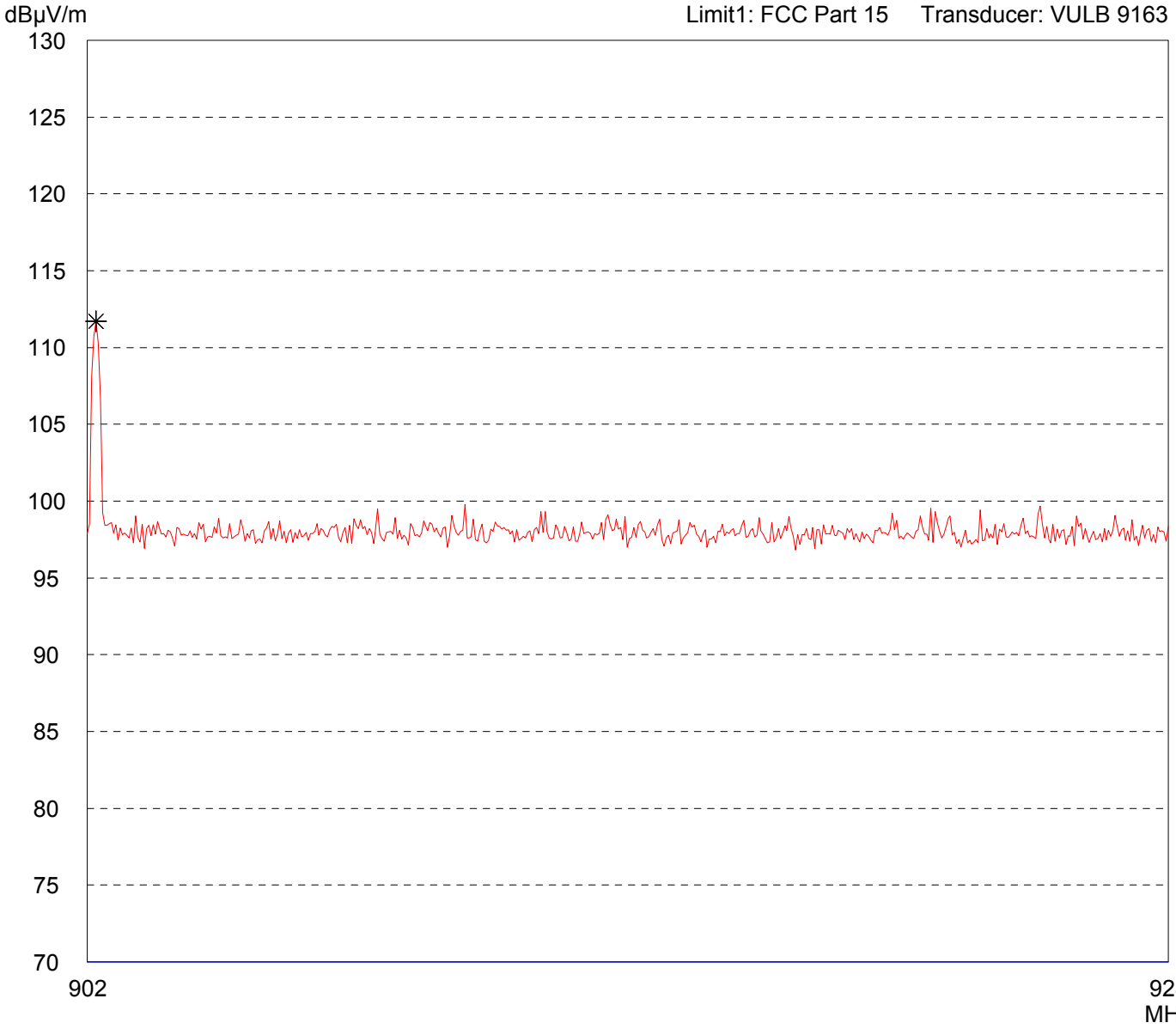
Detector: Peak	List of values: 10 dB Margin — 50 Subranges



Result: Limit kept	Project file: 56109-60651 — Page of Pages

Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: TX at 902.20 MHz (Low Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 09/13/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand



Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: TX at 902.20 MHz (Low Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 09/13/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand

Result: Prescan	Project file: 56109-60651 Page of Pages

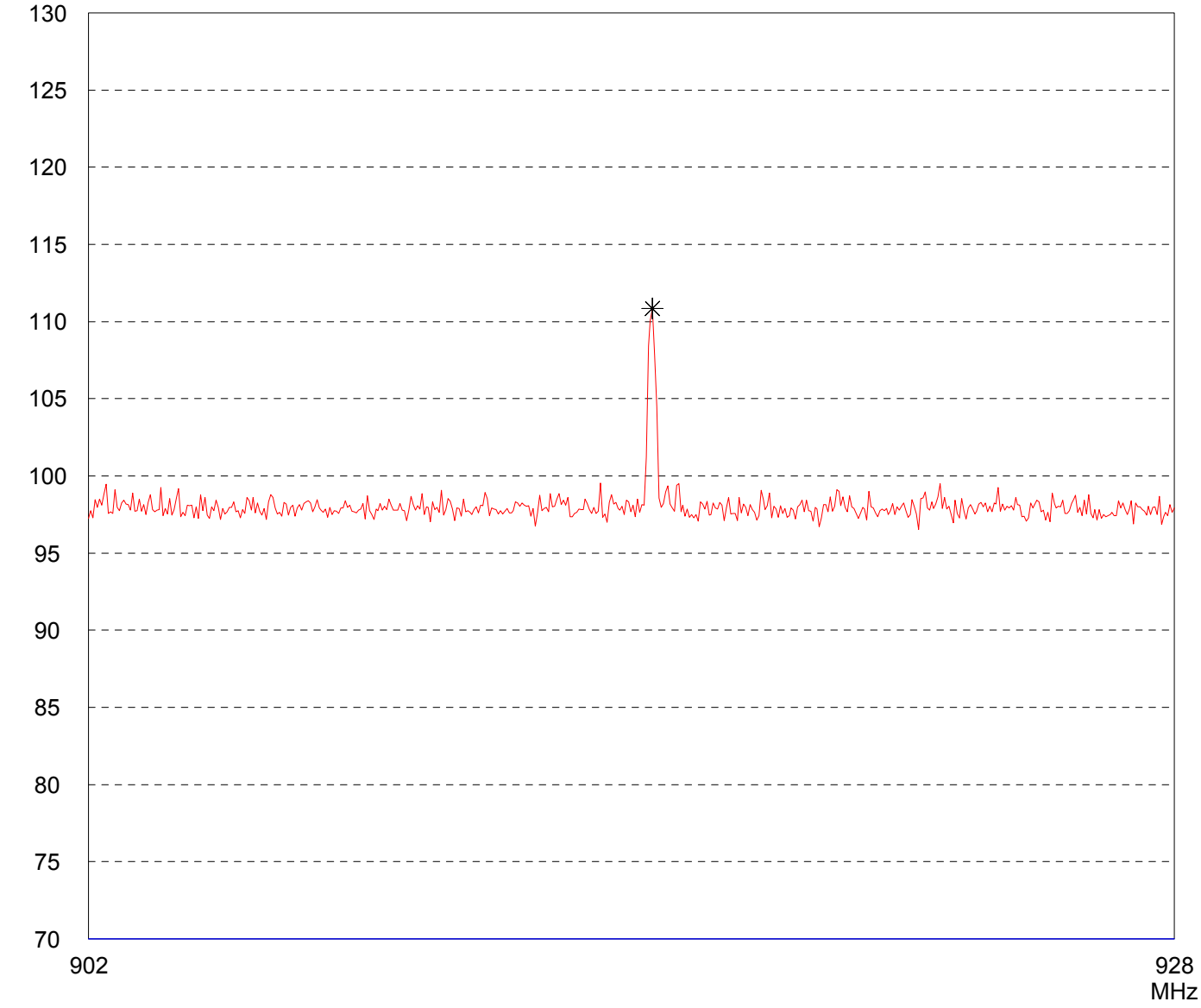
Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: TX at 915.37 MHz (Mid Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 09/13/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

dBµV/m

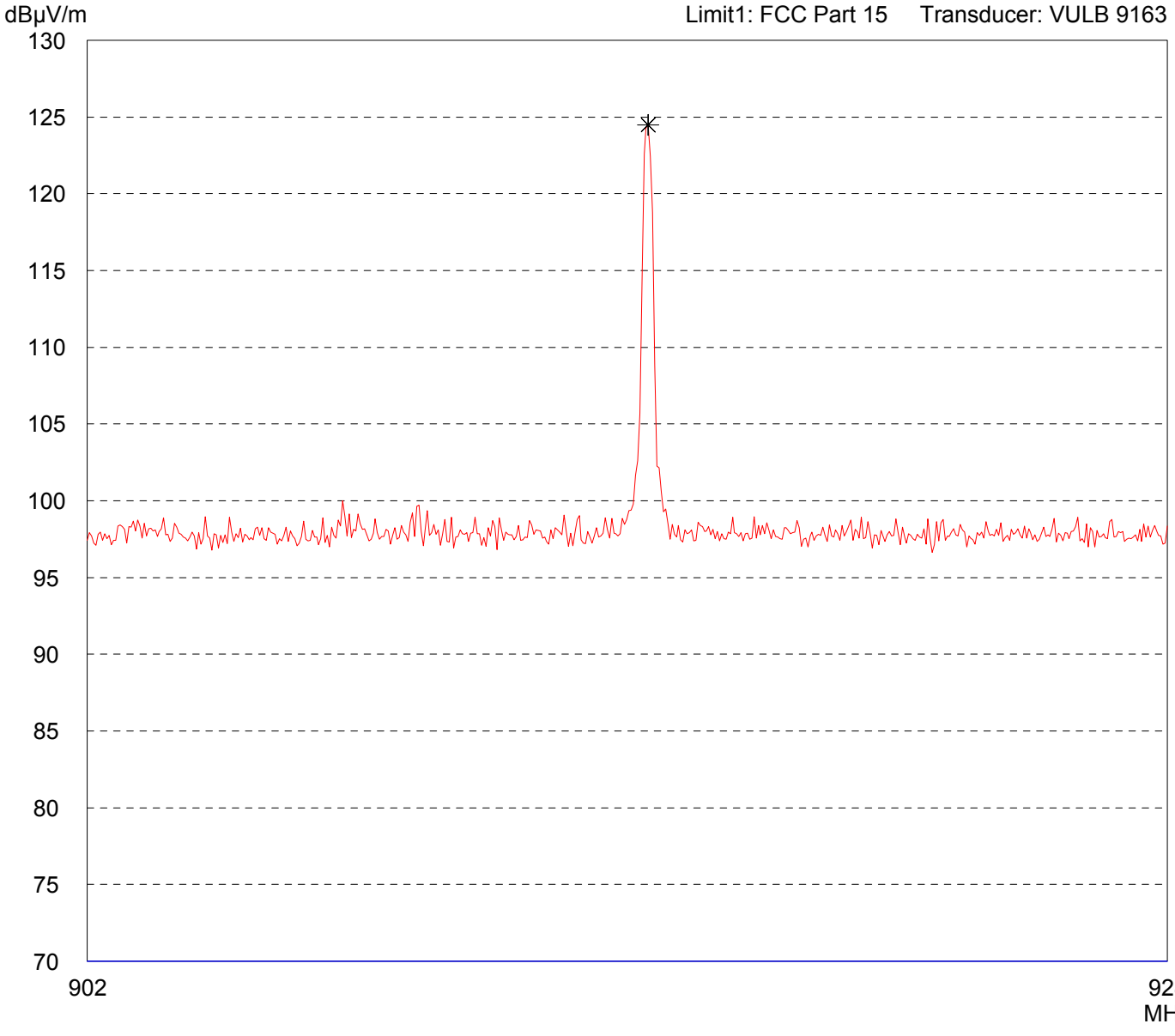
Limit1: FCC Part 15 Transducer: VULB 9163



Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: TX at 915.37 MHz (Mid Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 09/13/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	
Detector: Peak	List of values: Selected by hand



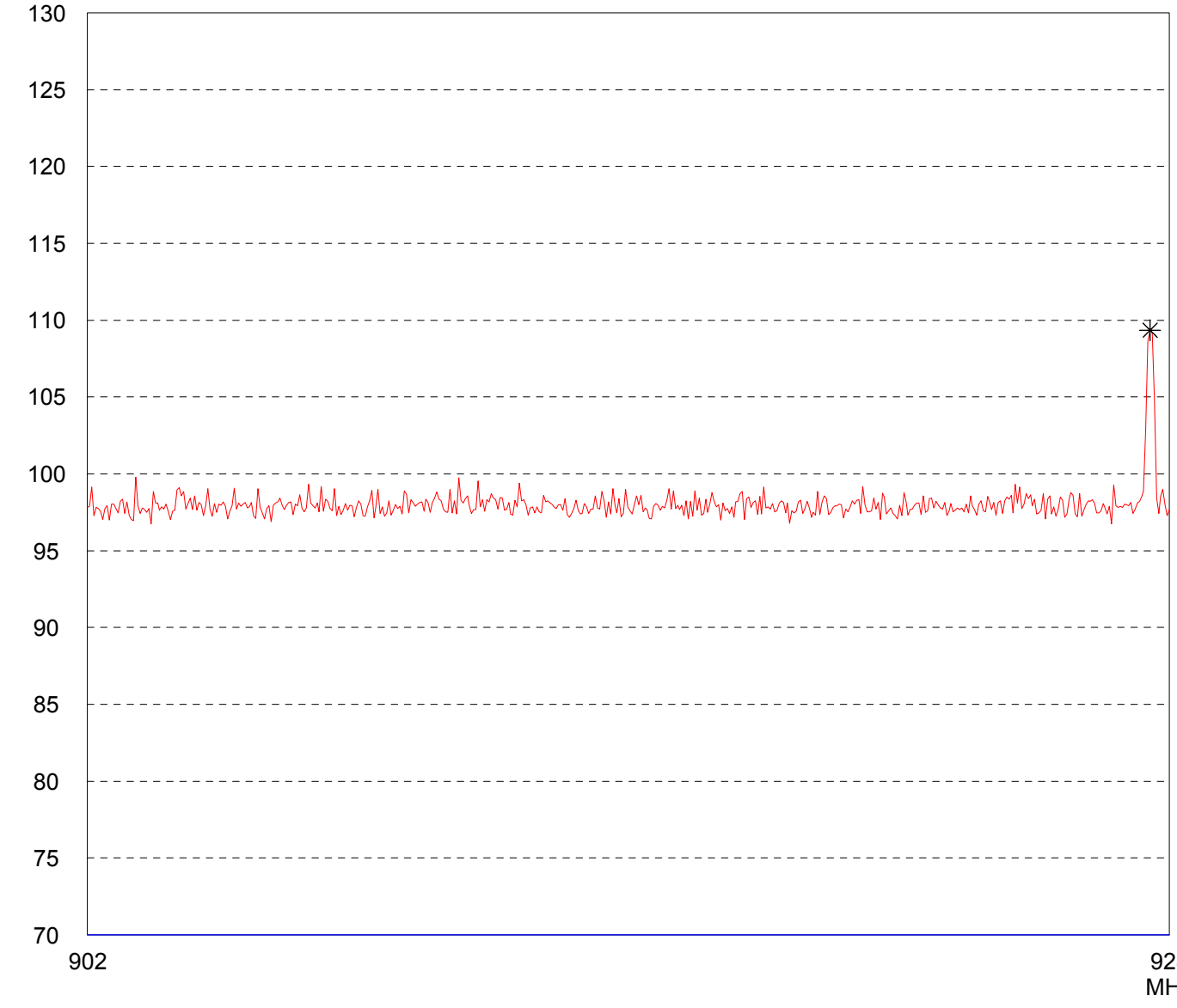
Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: TX at 927.48 MHz (High Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 09/13/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

dBµV/m — Limit1: FCC Part 15 — Transducer: VULB 9163

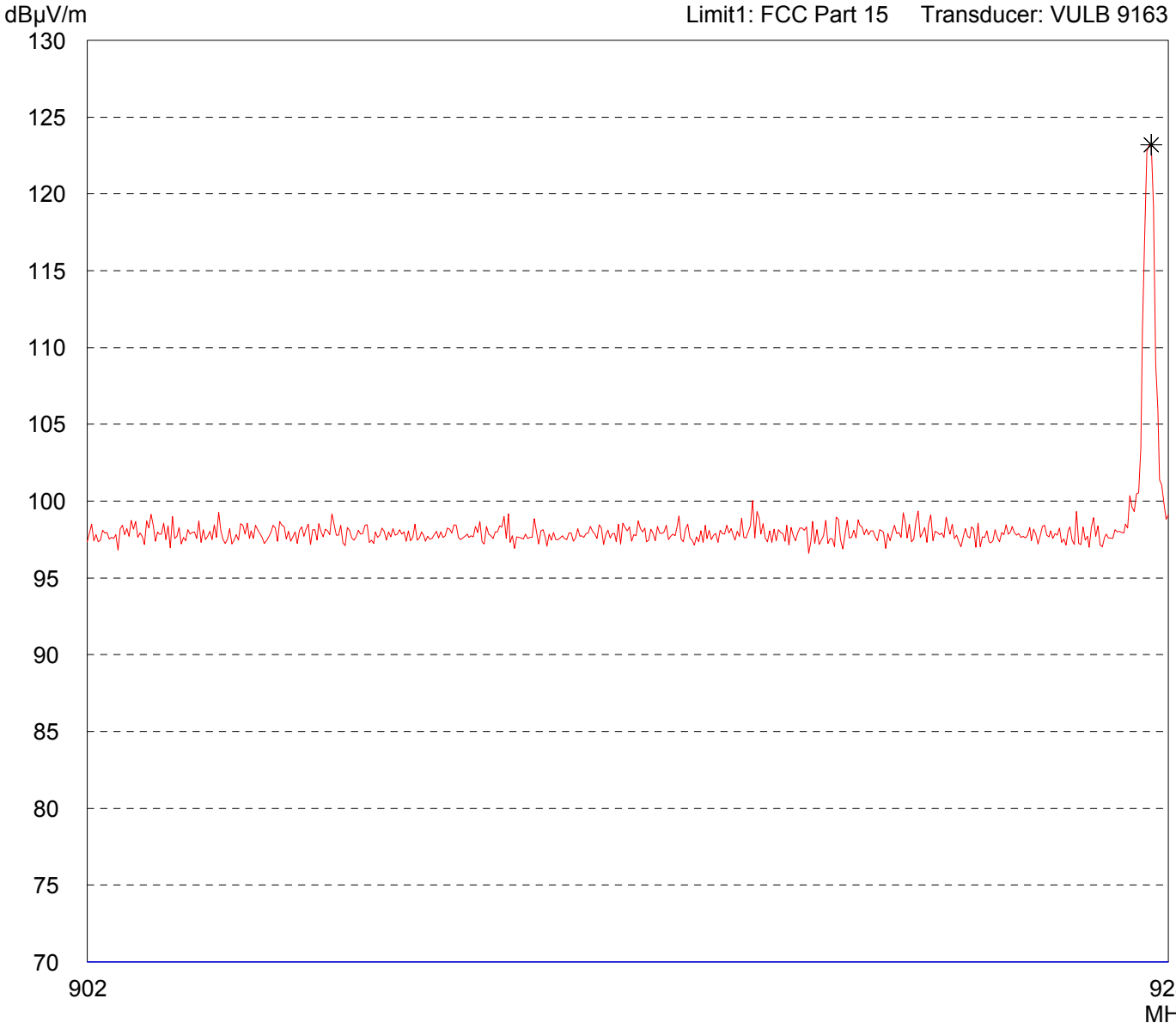


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 902 MHz - 928 MHz
acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: TX at 927.48 MHz (High Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 09/13/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

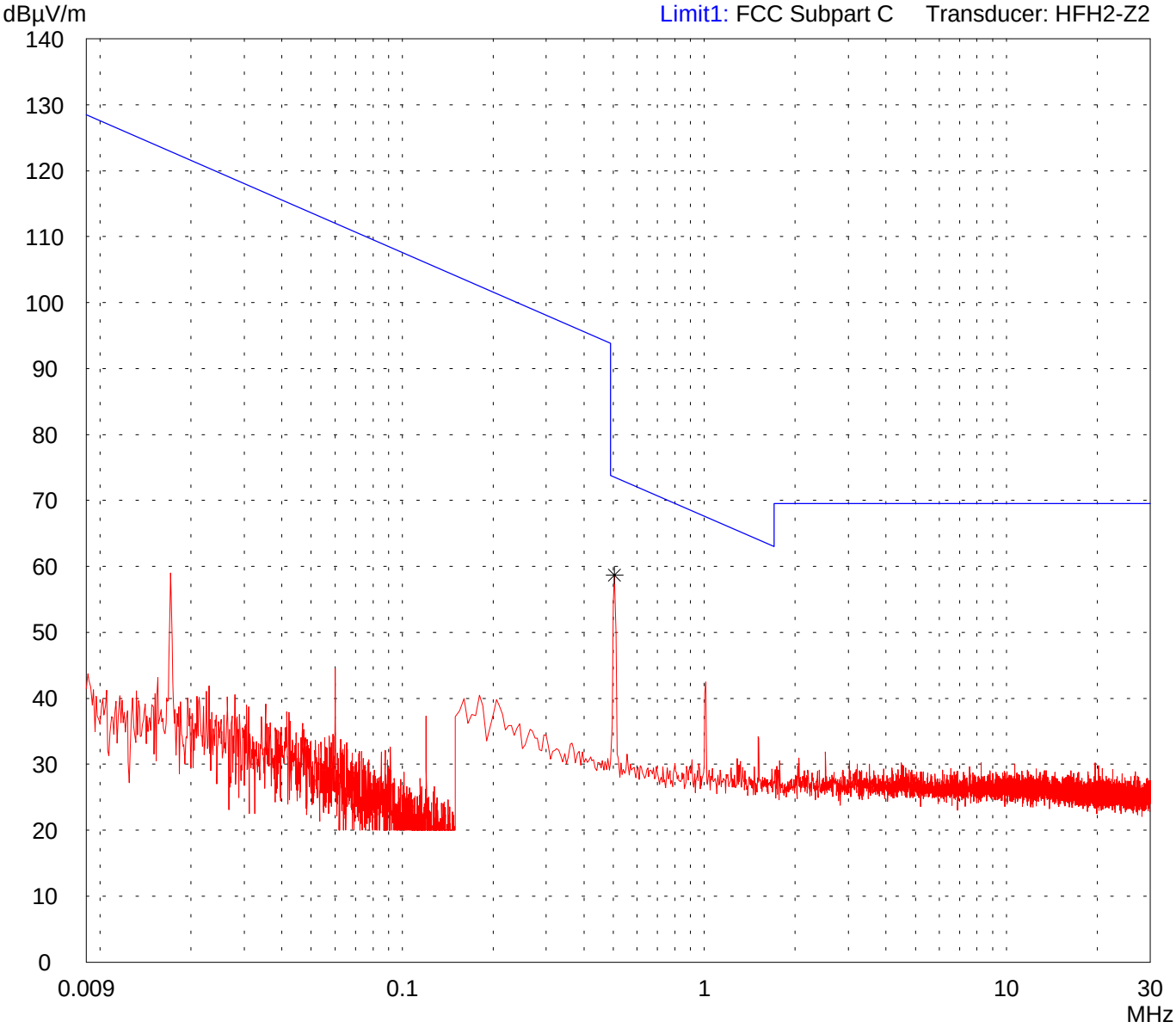


Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 9 kHz - 30 MHz
according to FCC Part 15 Subpart C

Model: AC4490-1000M with Nearson Omni	Mode: TX at 915.37 MHz
Serial no.:	
Applicant: AEROCOMM, Inc.	
Test site: Shielded room, cabin no. 1	
Tested on: Test distance 3 metres	
Date of test: 10/04/2006 — Operator: J. Roidt	
Test performed: automatically — File name:	

Detector: Peak / Final Results: QP	Final results: 20 dB Margin — 25 Subranges

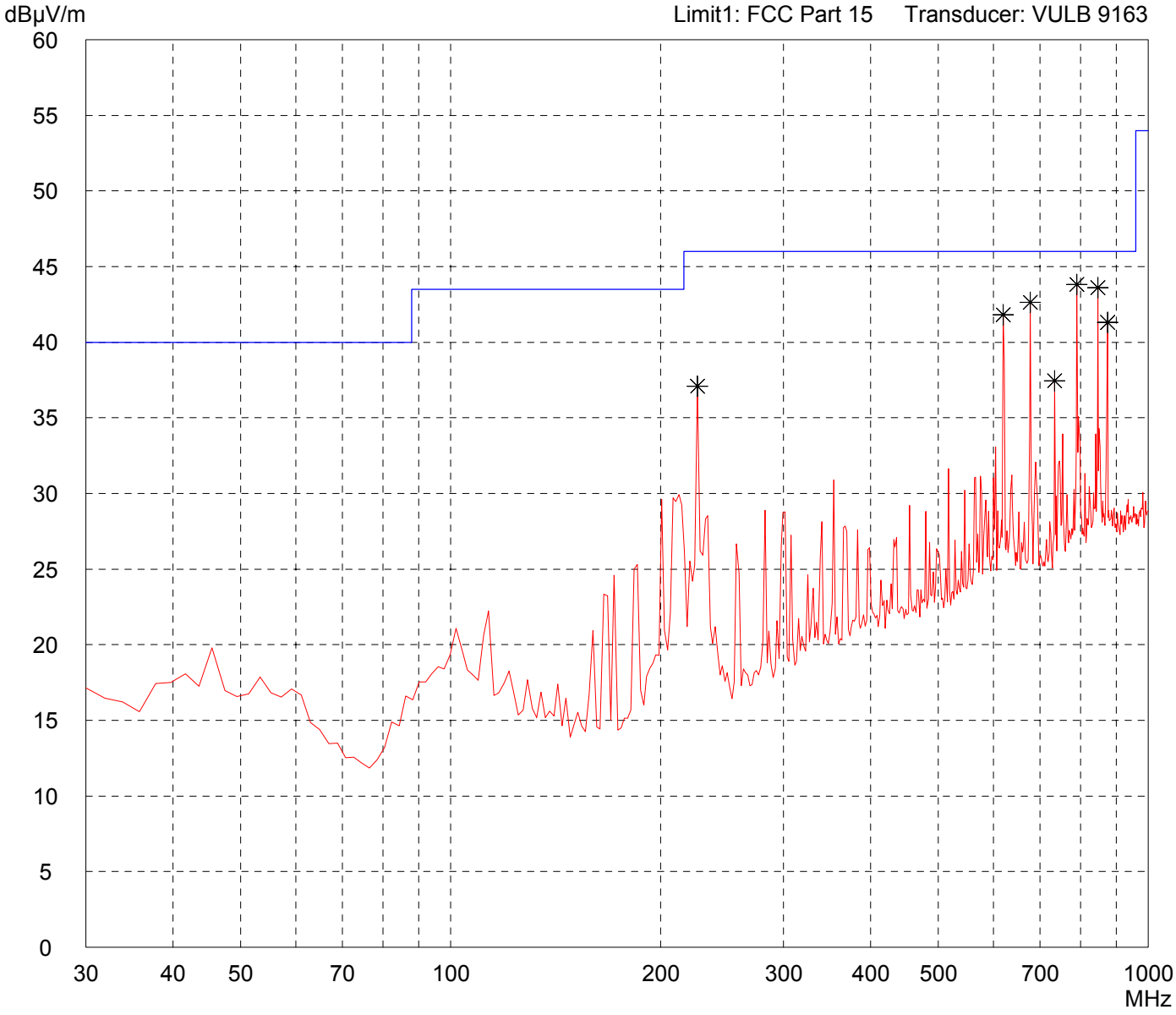


Result: Limit kept	Project file: 56109-060651 — Page of Pages

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

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: - TX at 902.20 MHz (Low Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

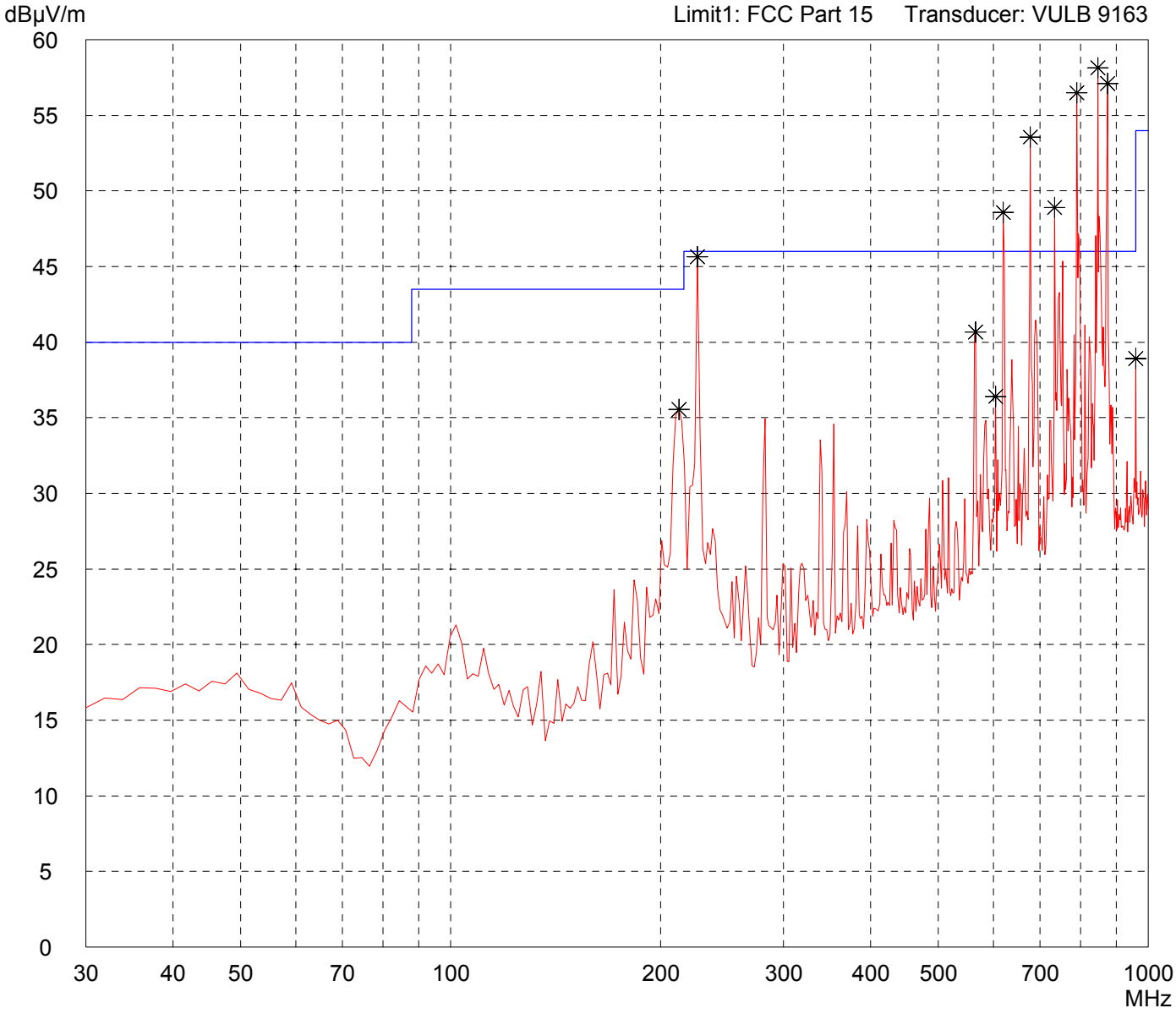


Result: Prescan	Project file: 56109-60651 Page of Pages

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

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: - TX at 902.20 MHz (Low Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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



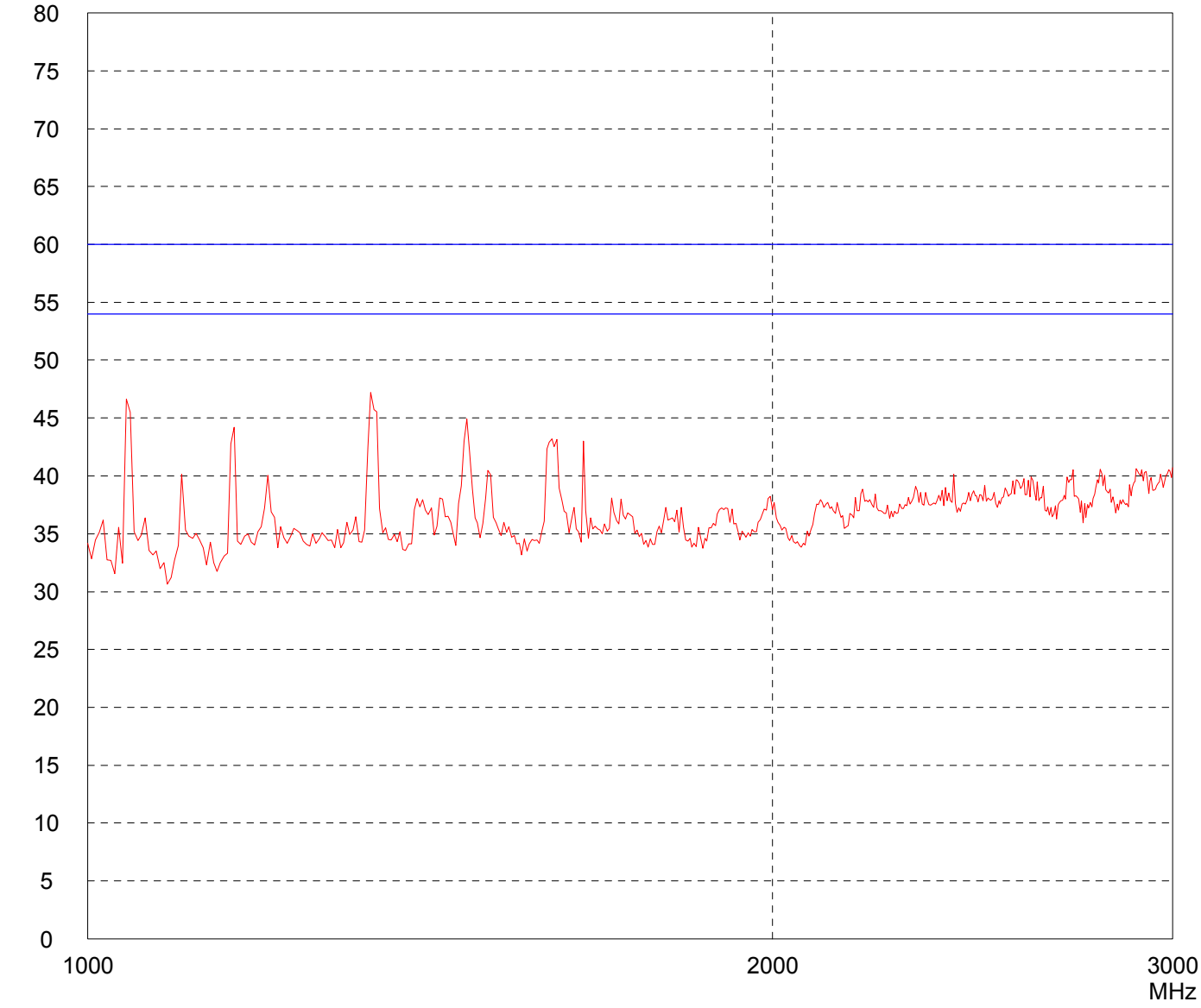
Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 902,20 MHz (Low channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/29/2006 / Operator:	
Test performed: automatically / File name: default.emi	

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

dBµV/m Limit1: FCC Part 15 Limit2: FCC part 15 class A Transducer: EMCO 3115

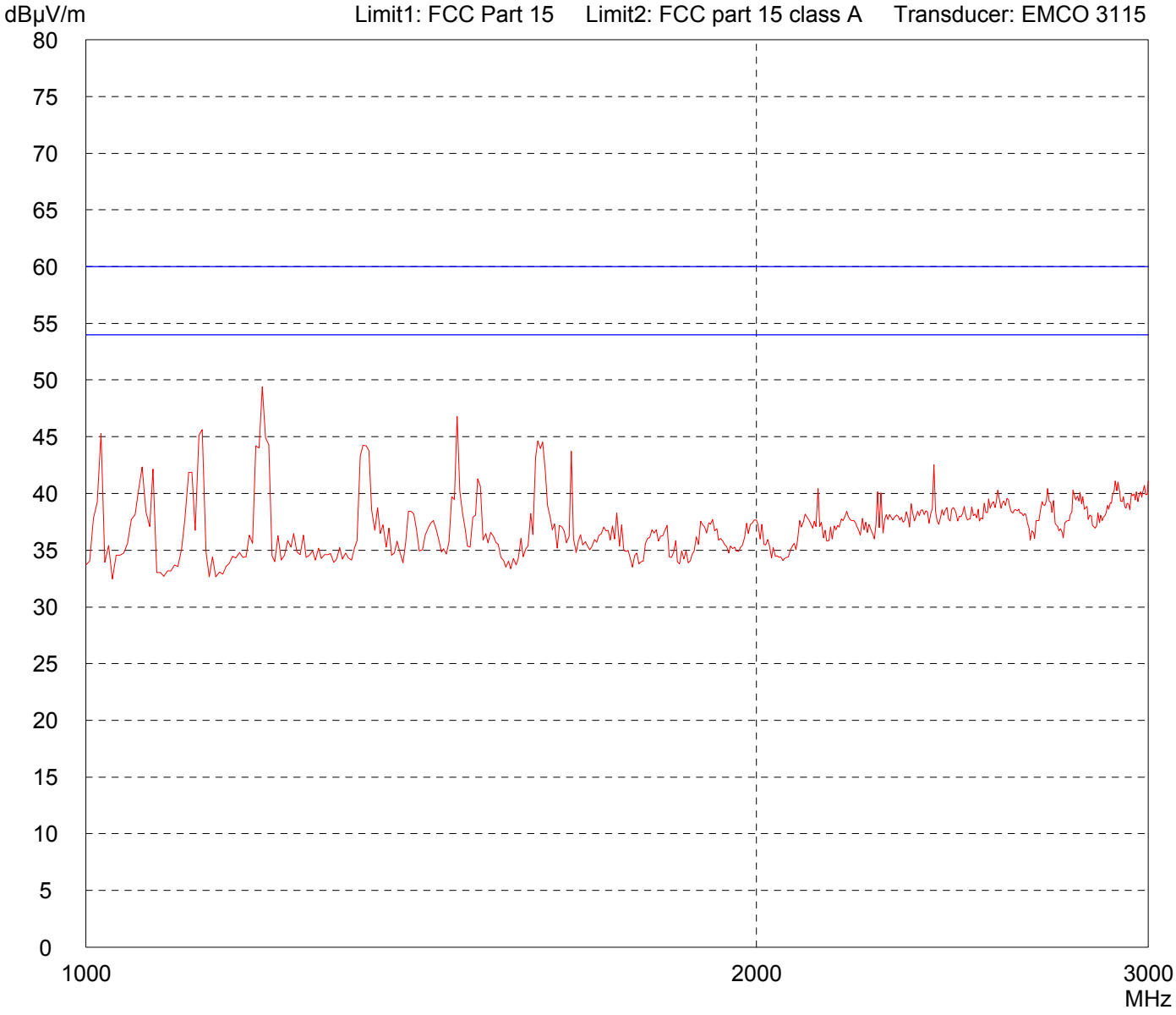


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 902.20 MHz (Low channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/29/2006 — Operator:	
Test performed: automatically — File name: default.emi	

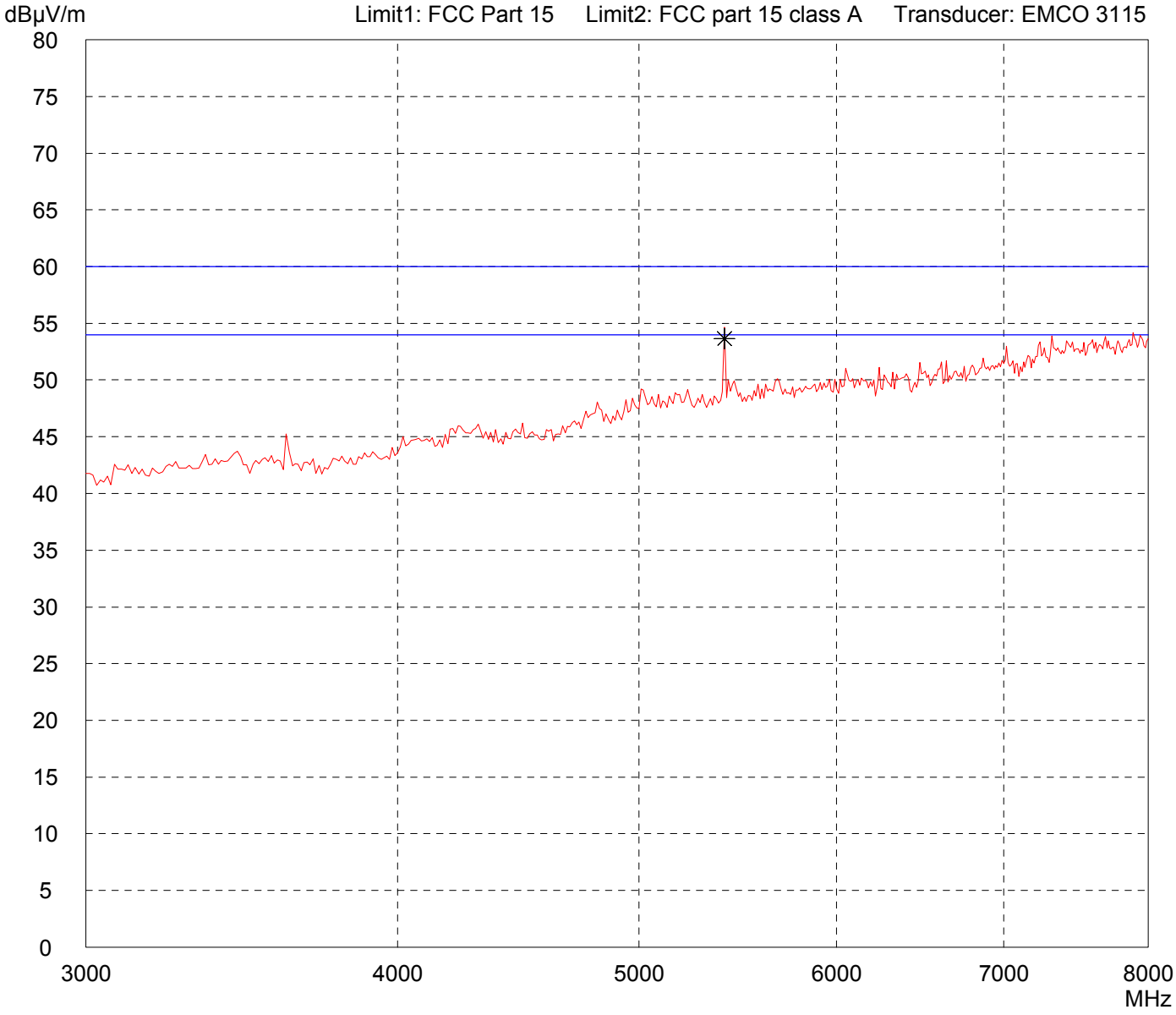
Detector: Peak	List of values: 10 dB Margin — 50 Subranges



Result: Limit kept	Project file: 56109-60651 — Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

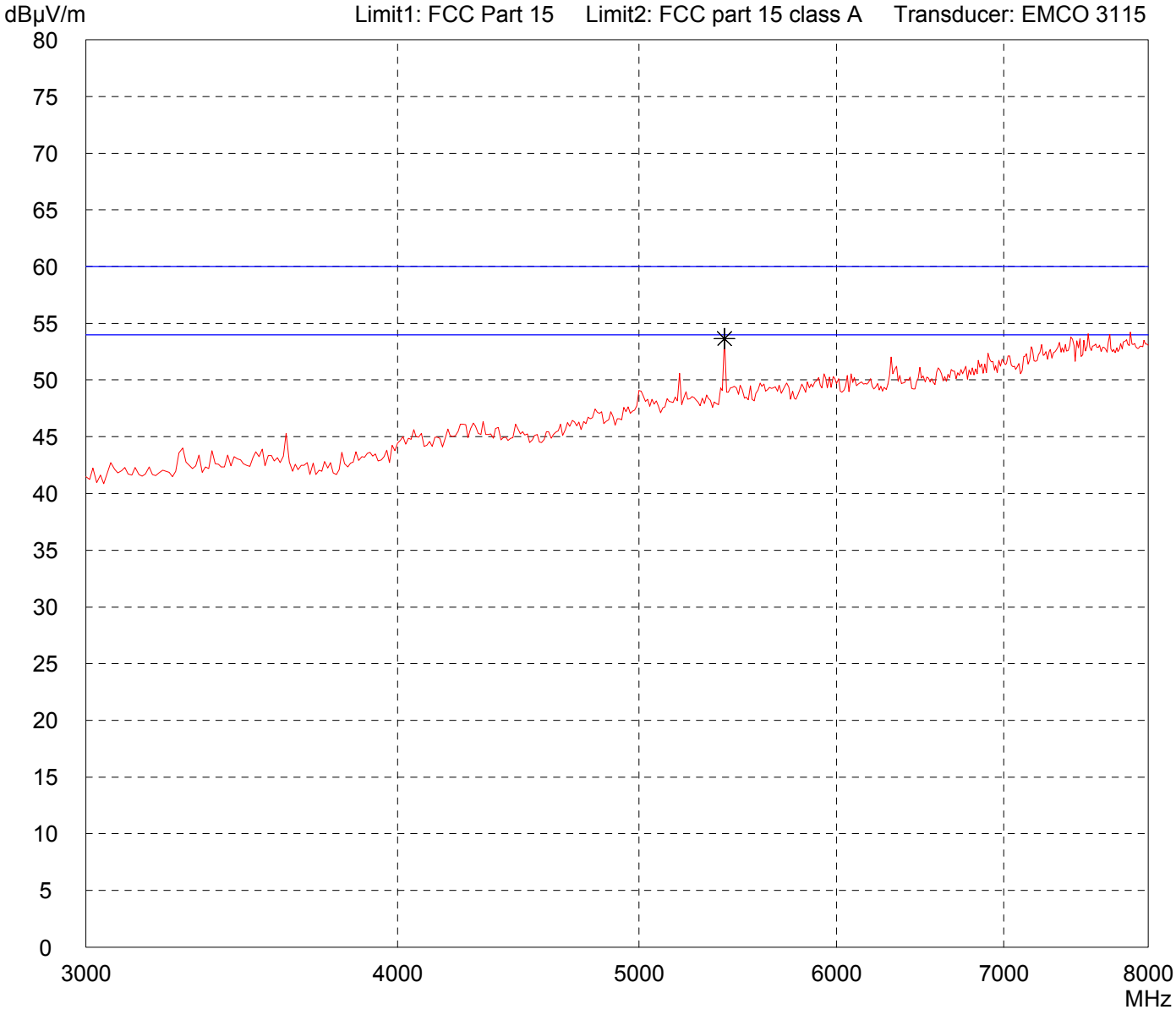
Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 902,20 MHz (Low channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/29/2006 — Operator:	
Test performed: automatically — File name: default.emi	
Detector: Peak	List of values: Selected by hand



Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 902,20 MHz (Low channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/29/2006 — Operator:	
Test performed: automatically — File name: default.emi	
Detector: Peak	List of values: Selected by hand



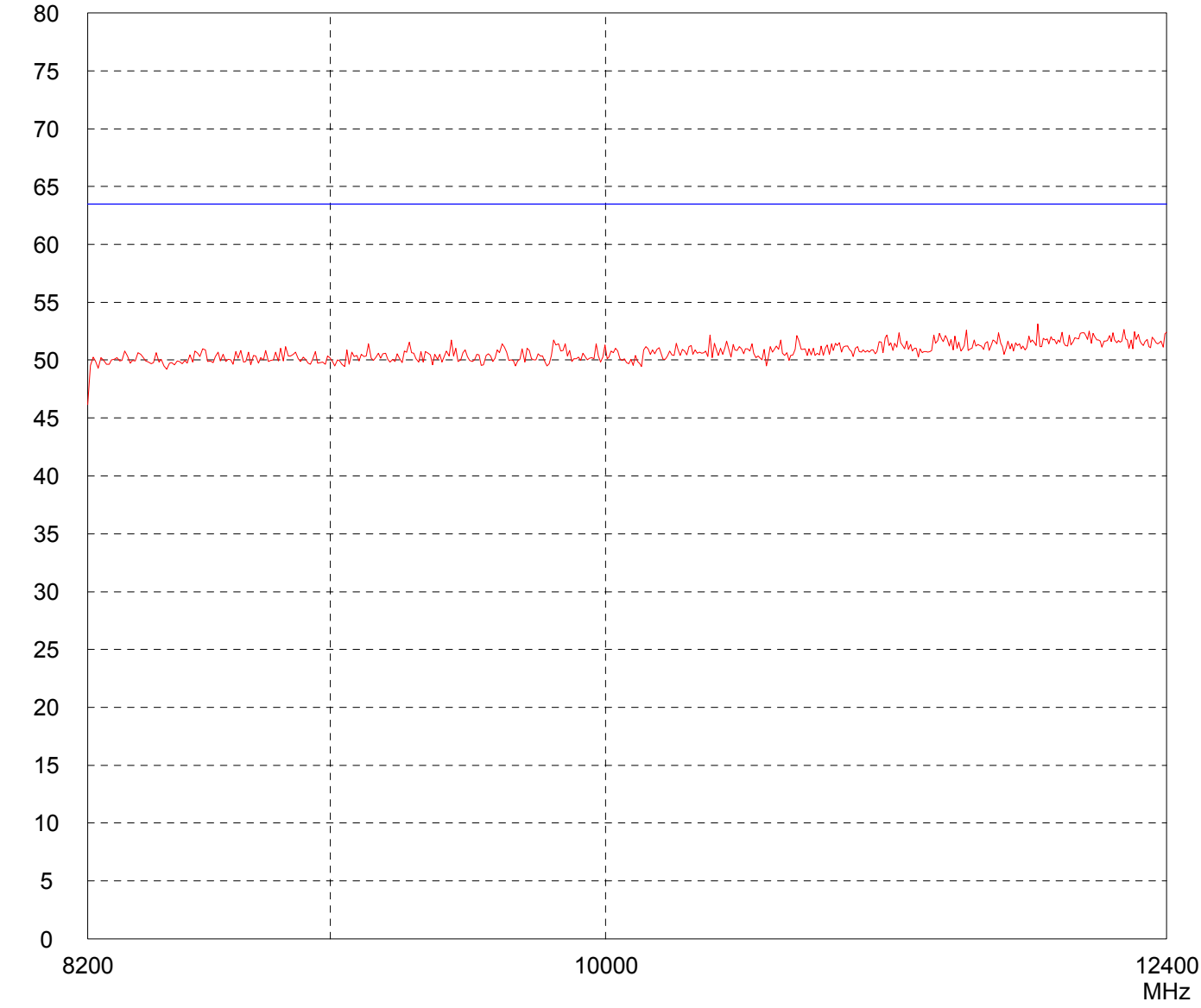
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 902.20 MHz (Low channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 08/29/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m — Limit1: FCC Part 15 (1 m) — Transducer: EMCO 3160



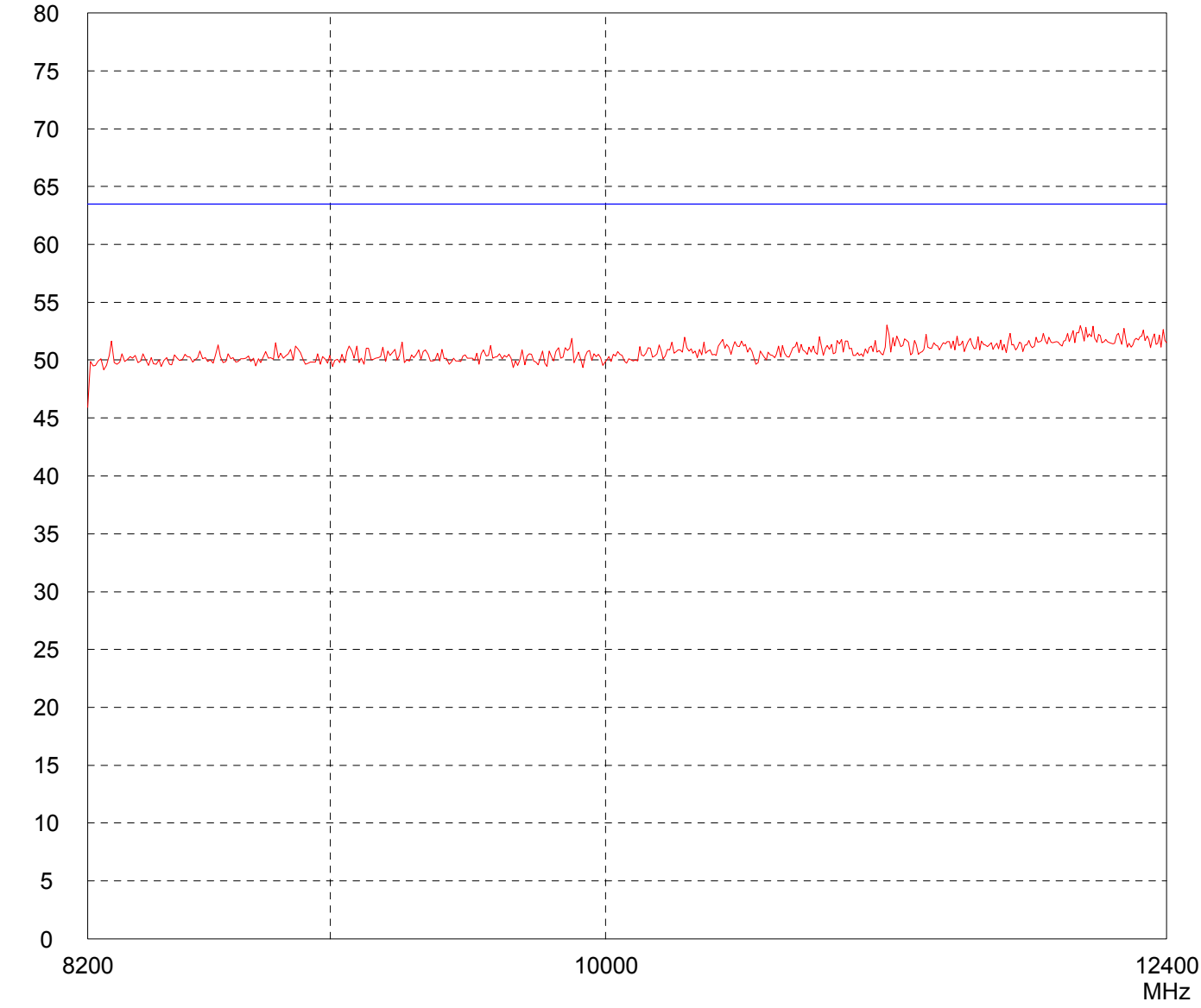
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 902.20 MHz (Low channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 08/29/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m — Limit1: FCC Part 15 (1 m) — Transducer: EMCO 3160



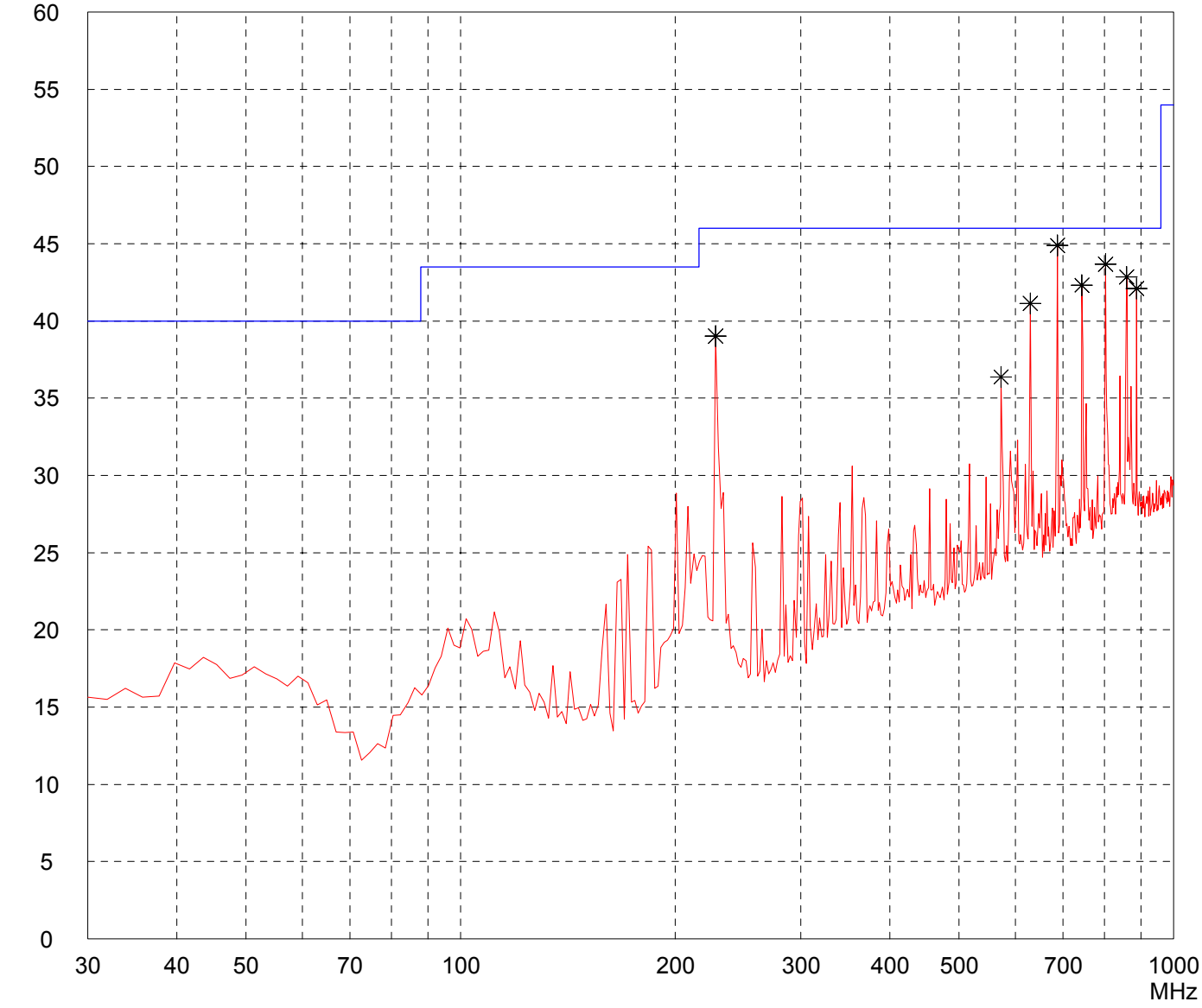
Result: Limit kept	Project file: 56109-60651 Page of Pages

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

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: - TX at 915.37 MHz (Mid Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m — Limit1: FCC Part 15 — Transducer: VULB 9163

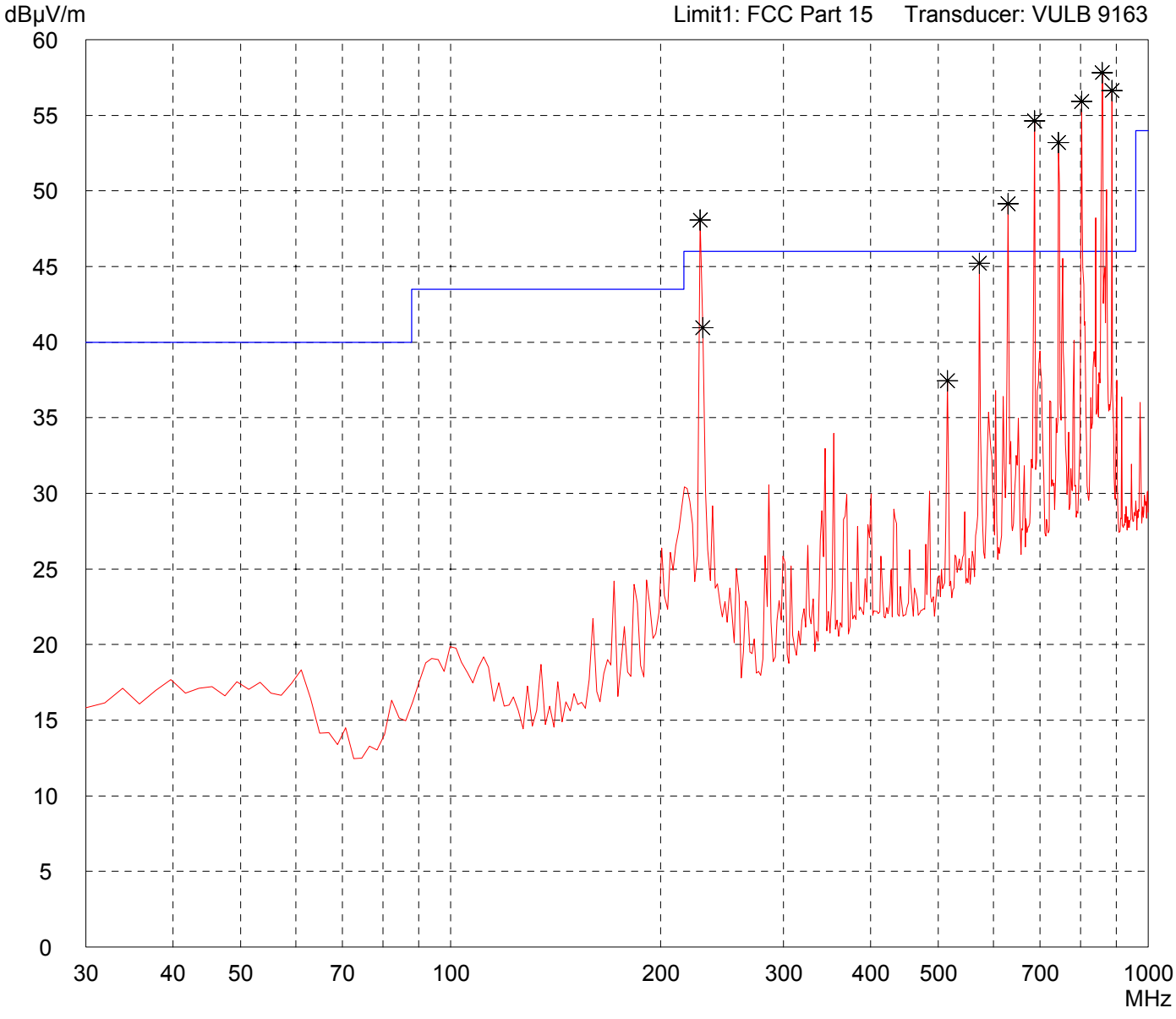


Result: Prescan	Project file: 56109-60651 Page of Pages

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

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: - TX at 915.37 MHz (Mid Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

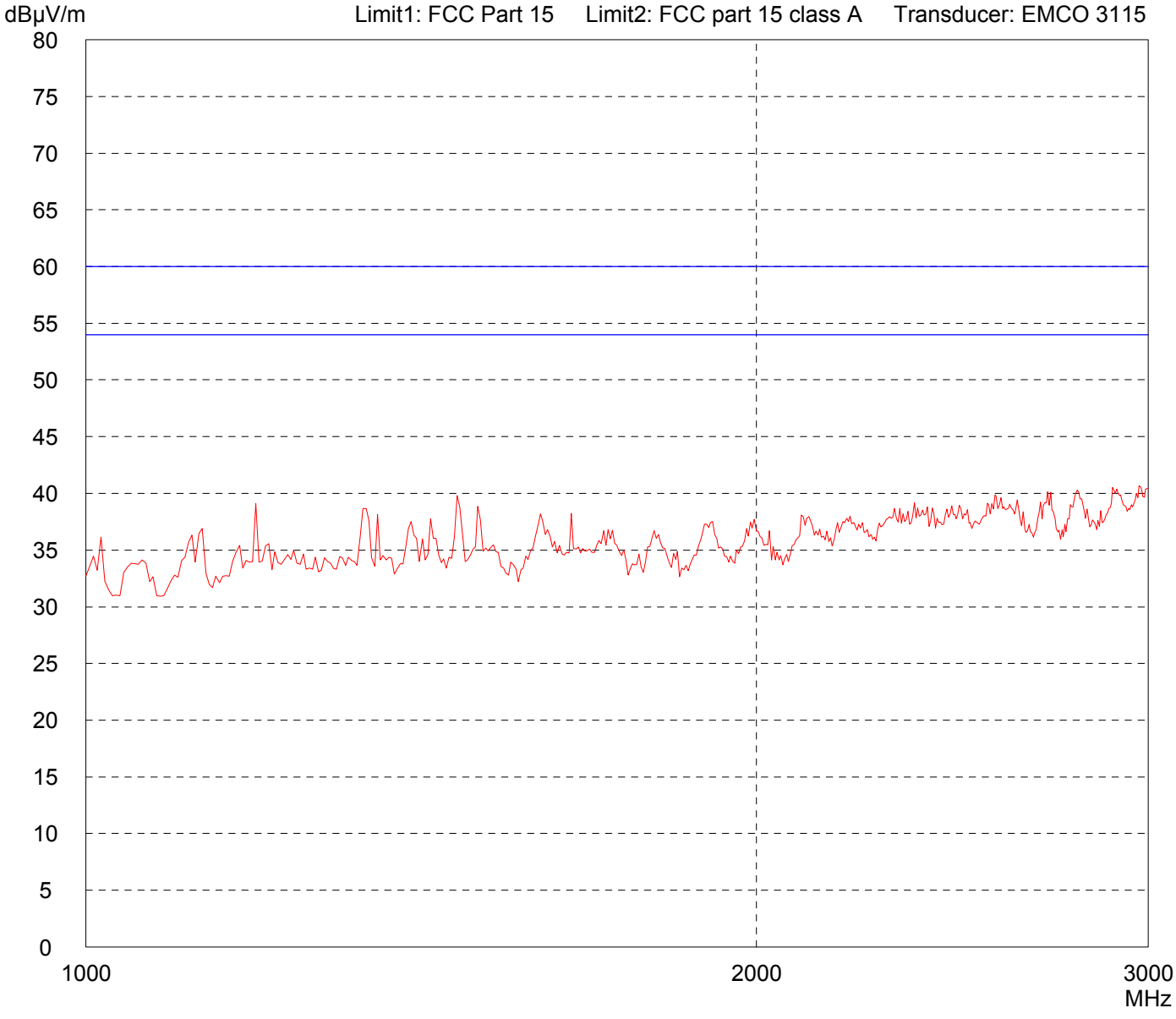


Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 902.20 MHz (Low Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/25/2006 — Operator: J. Roidt	
Test performed: automatically — File name: default.emi	

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

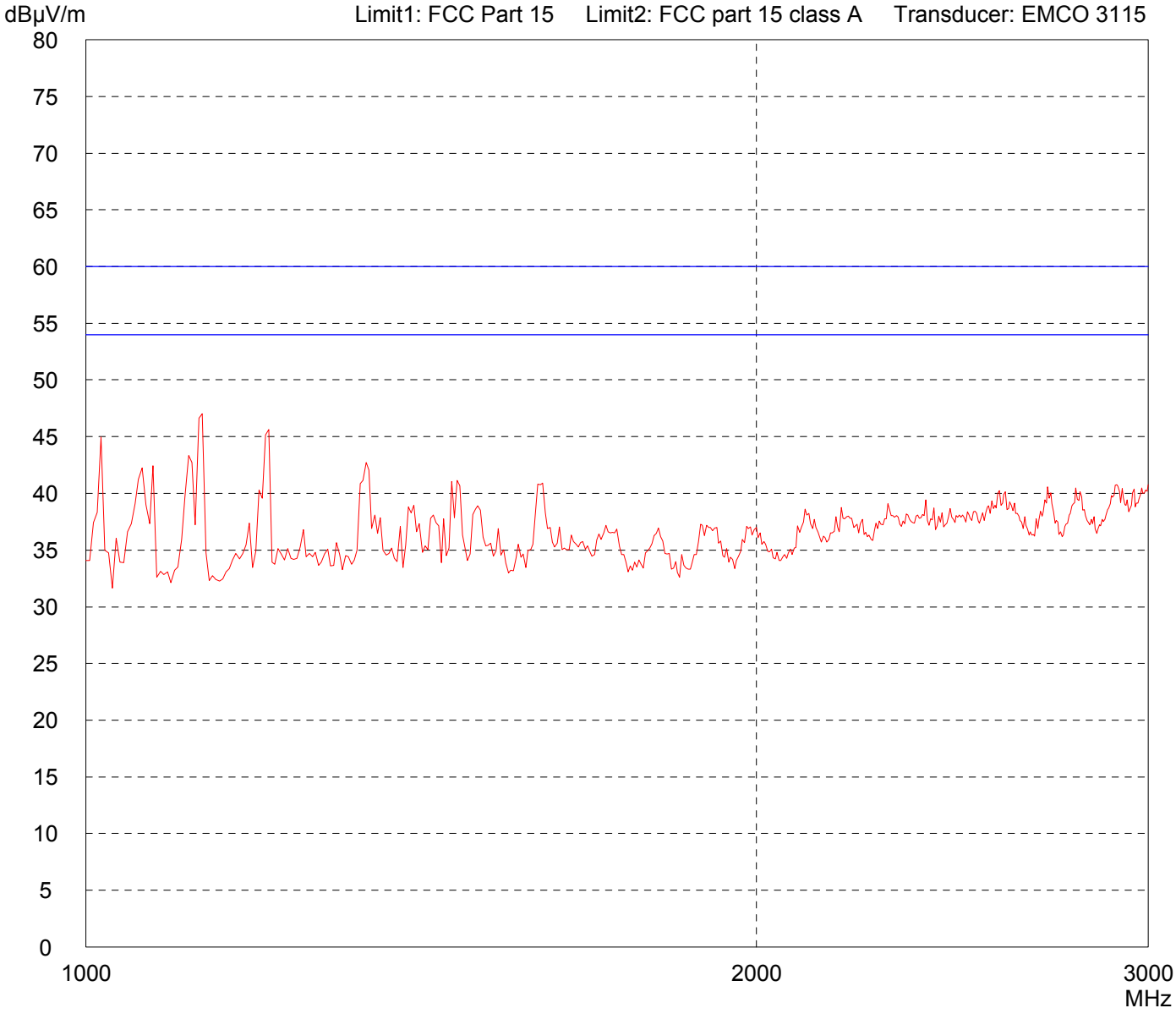


Result: Limit kept	Project file: 56109-60651 — Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 902.20 MHz (Low Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/25/2006 — Operator: J. Roidt	
Test performed: automatically — File name: default.emi	

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

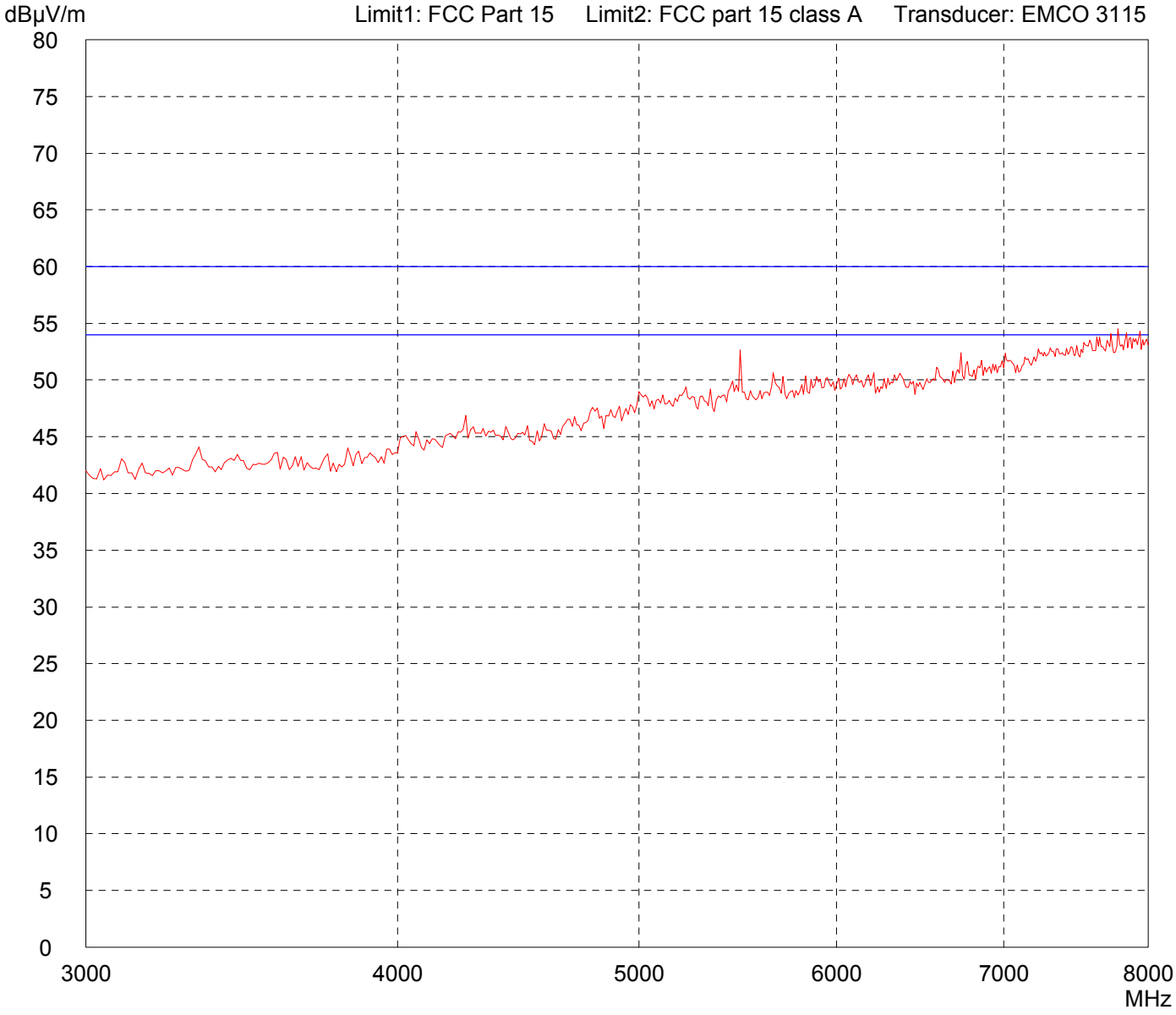


Result: Limit kept	Project file: 56109-60651 — Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 915.37 MHz (Mid channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/29/2006 / Operator:	
Test performed: automatically / File name: default.emi	

Detector: Peak	List of values: Selected by hand

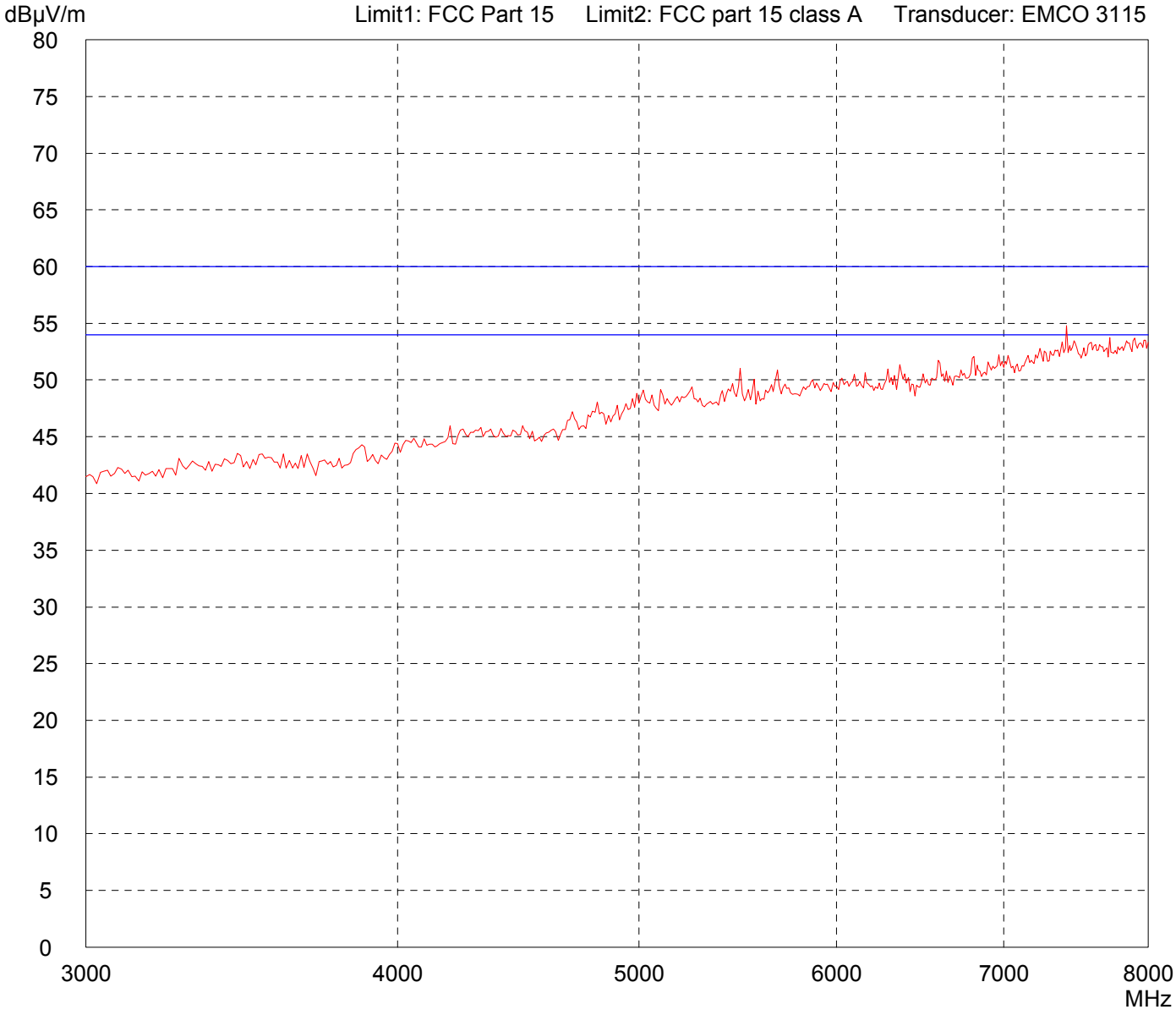


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 915.37 MHz (Mid channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/29/2006 — Operator:	
Test performed: automatically — File name: default.emi	

Detector: Peak	List of values: Selected by hand

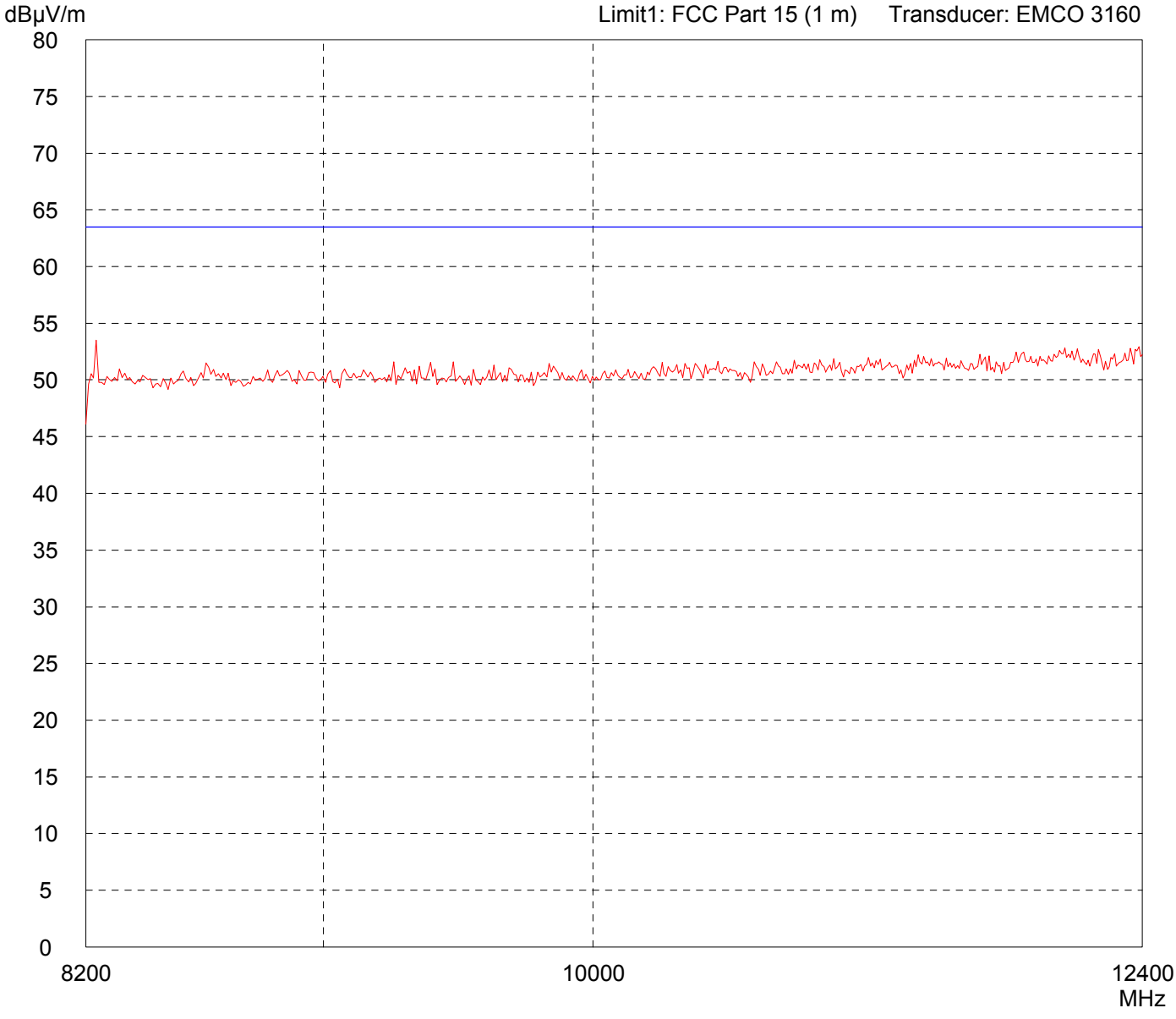


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 915.37 MHz (Mid channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 08/29/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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



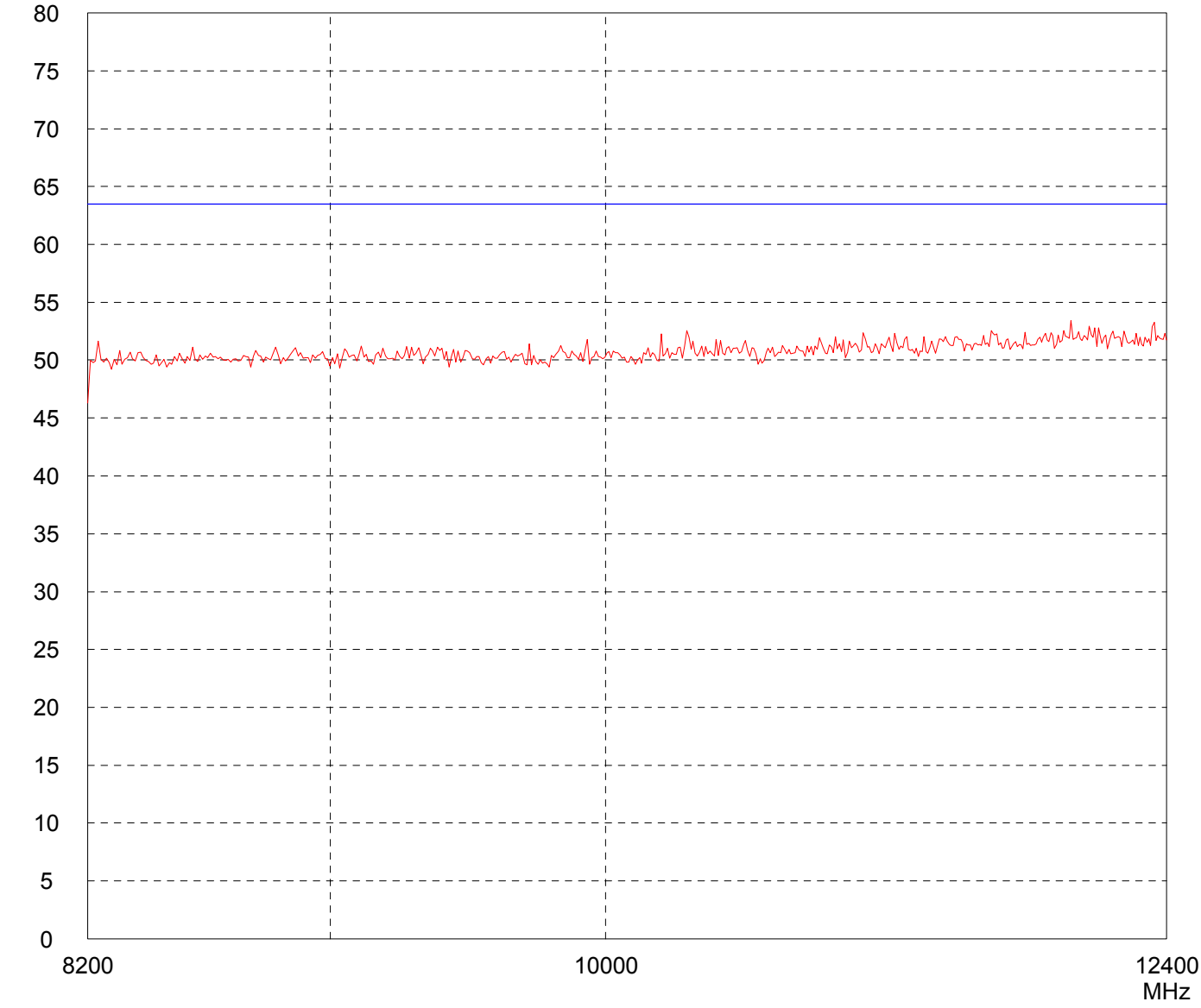
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 915.37 MHz (Mid channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 08/29/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m — Limit1: FCC Part 15 (1 m) — Transducer: EMCO 3160

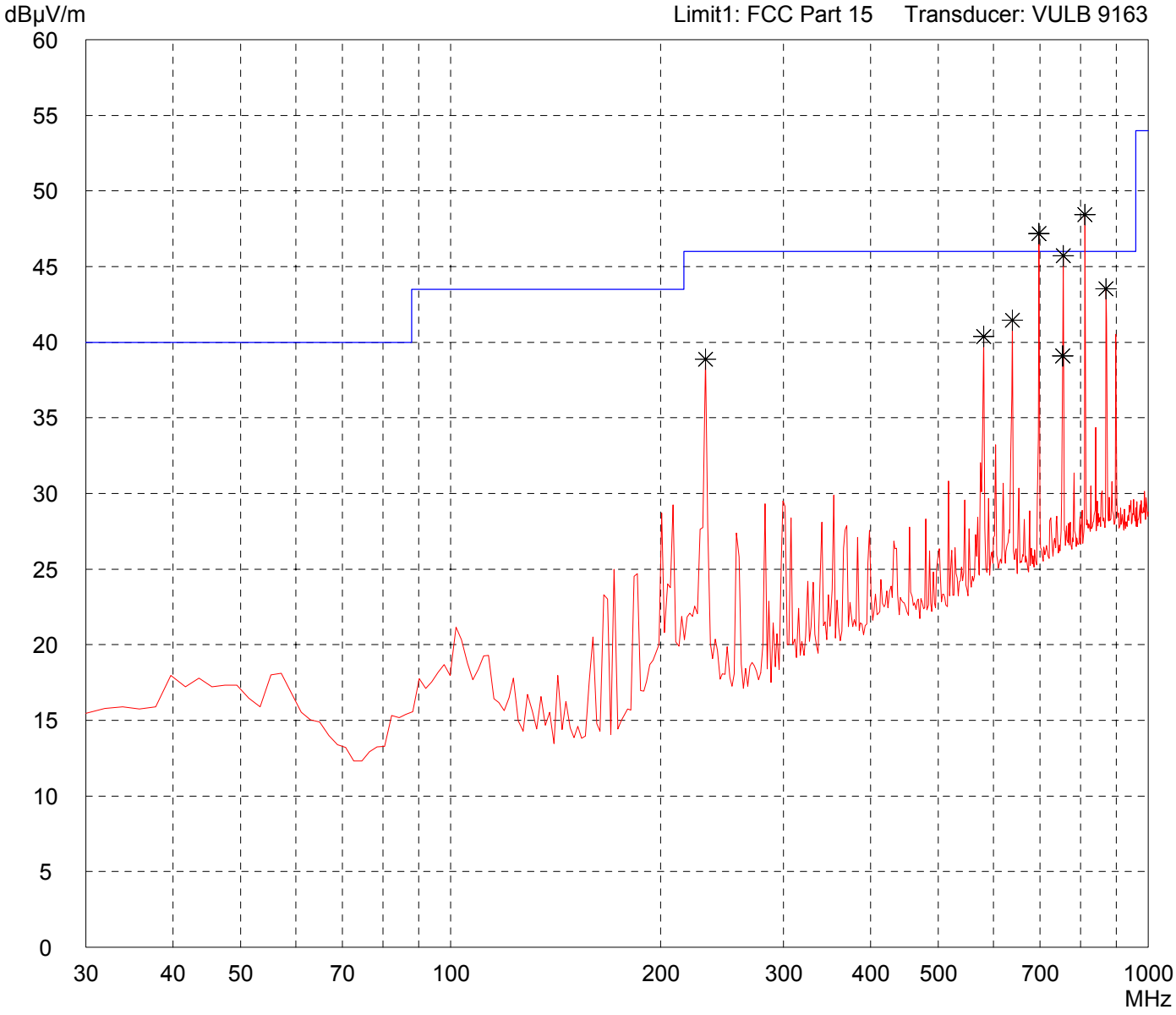


Result: Limit kept	Project file: 56109-60651 Page of Pages

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

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: - TX at 927.48 MHz (High Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

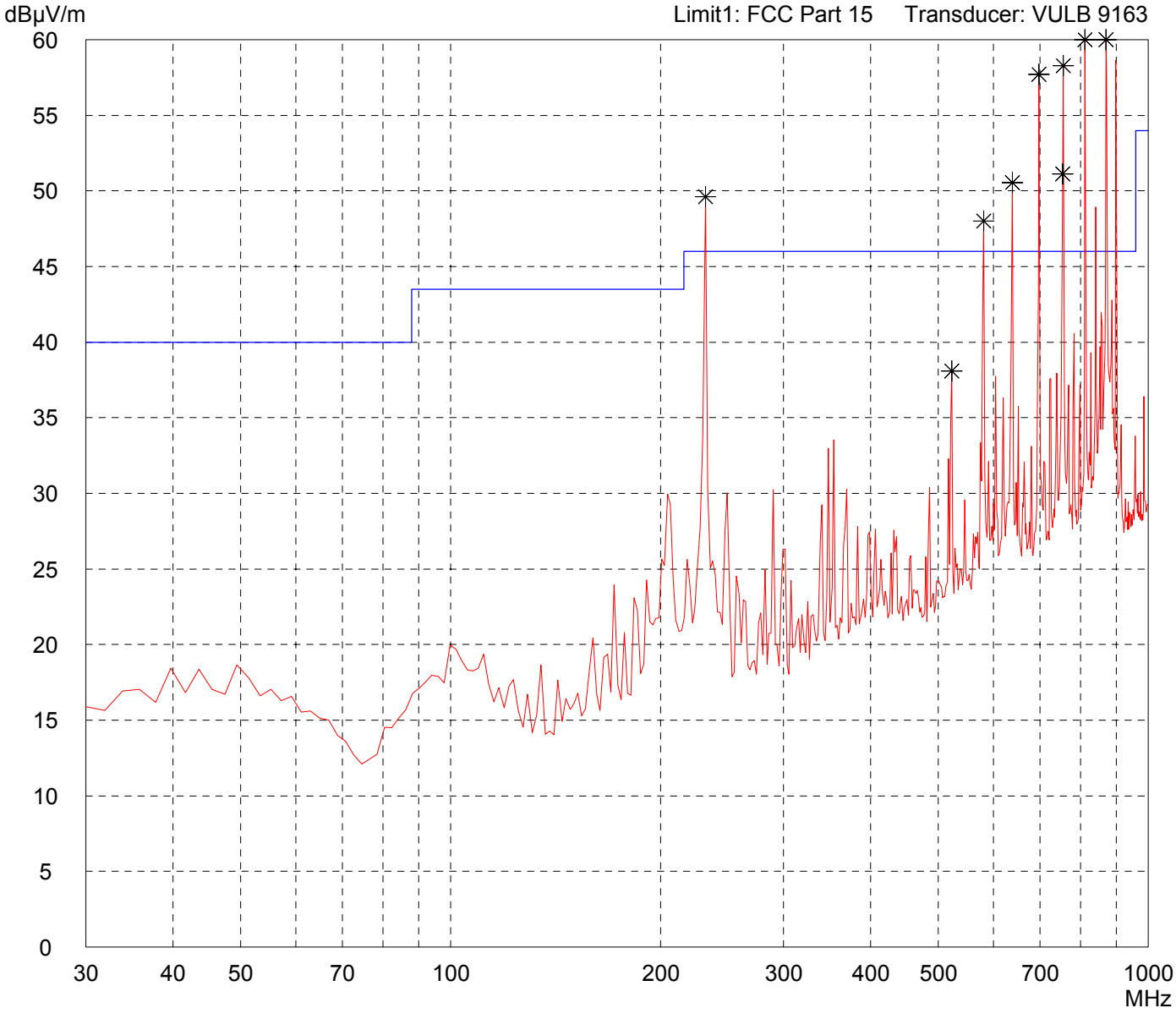


Result: Prescan	Project file: 56109-60651 Page of Pages

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

Model: AC4490-1000M with Nearson Omni SG101N-915	Comment: - TX at 927.48 MHz (High Channel) - Notch filter on fundamental frequency Note: N.R.B = Not in a restricted band
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

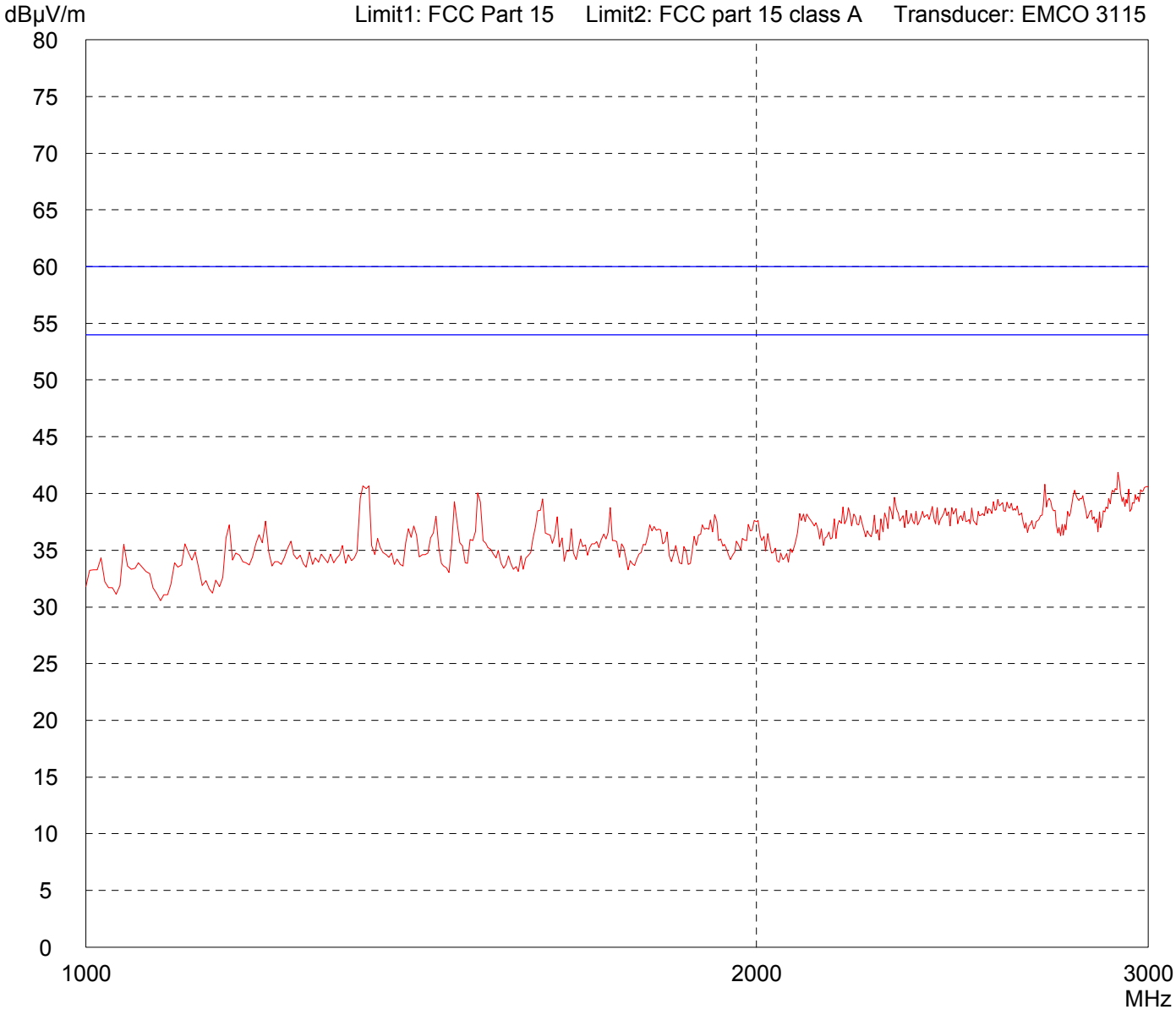


Result: Prescan	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 927.48 MHz (High channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/29/2006 / Operator:	
Test performed: automatically / File name: default.emi	

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

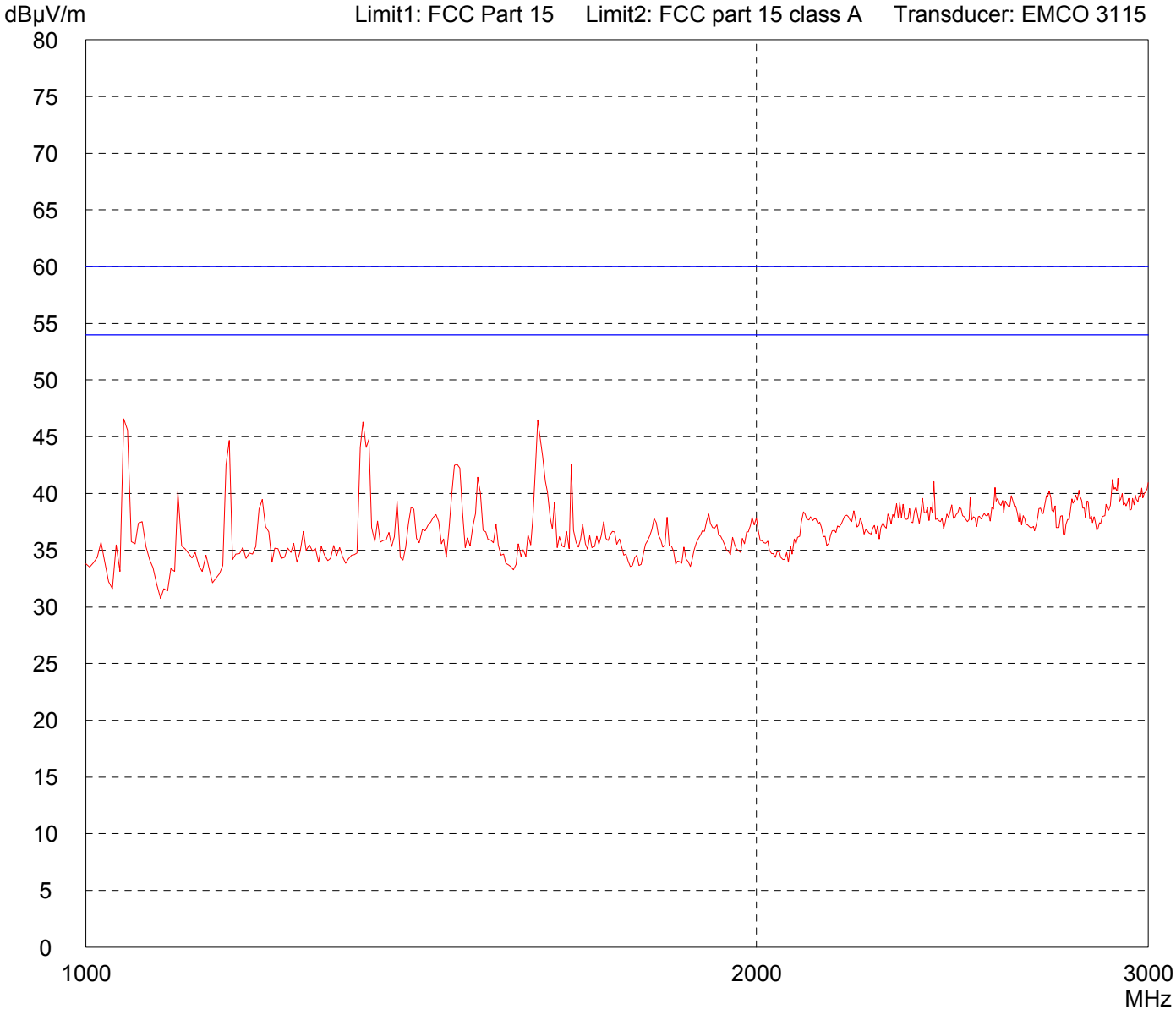


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 3 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 927.48 MHz (High channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/29/2006 — Operator:	
Test performed: automatically — File name: default.emi	

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

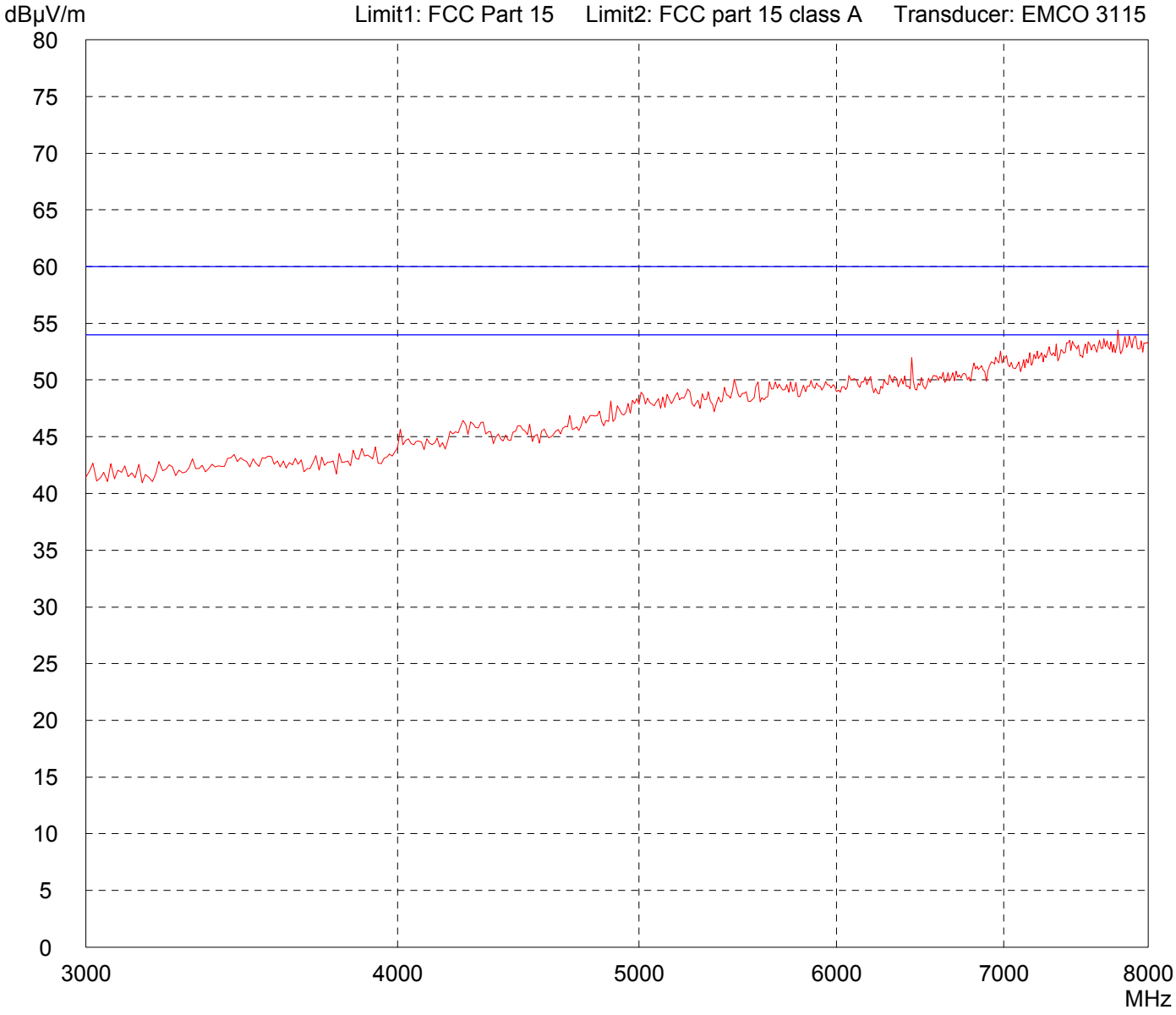


Result: Limit kept	Project file: 56109-60651 — Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 927.48 MHz (High channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/29/2006 — Operator:	
Test performed: automatically — File name: default.emi	

Detector: Peak	List of values: Selected by hand

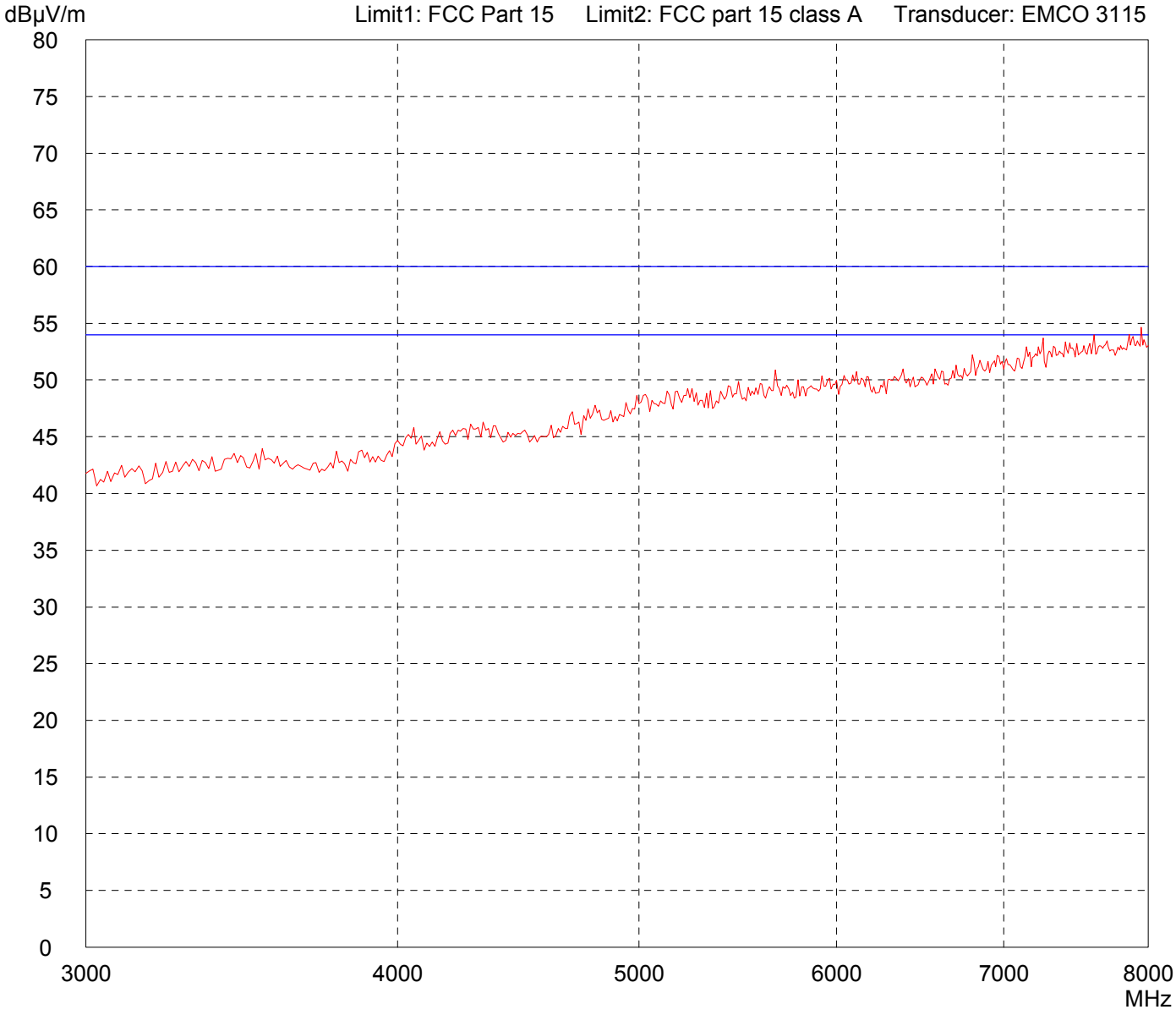


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 3 GHz - 8 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 927.48 MHz (High channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/29/2006 — Operator:	
Test performed: automatically — File name: default.emi	

Detector: Peak	List of values: Selected by hand



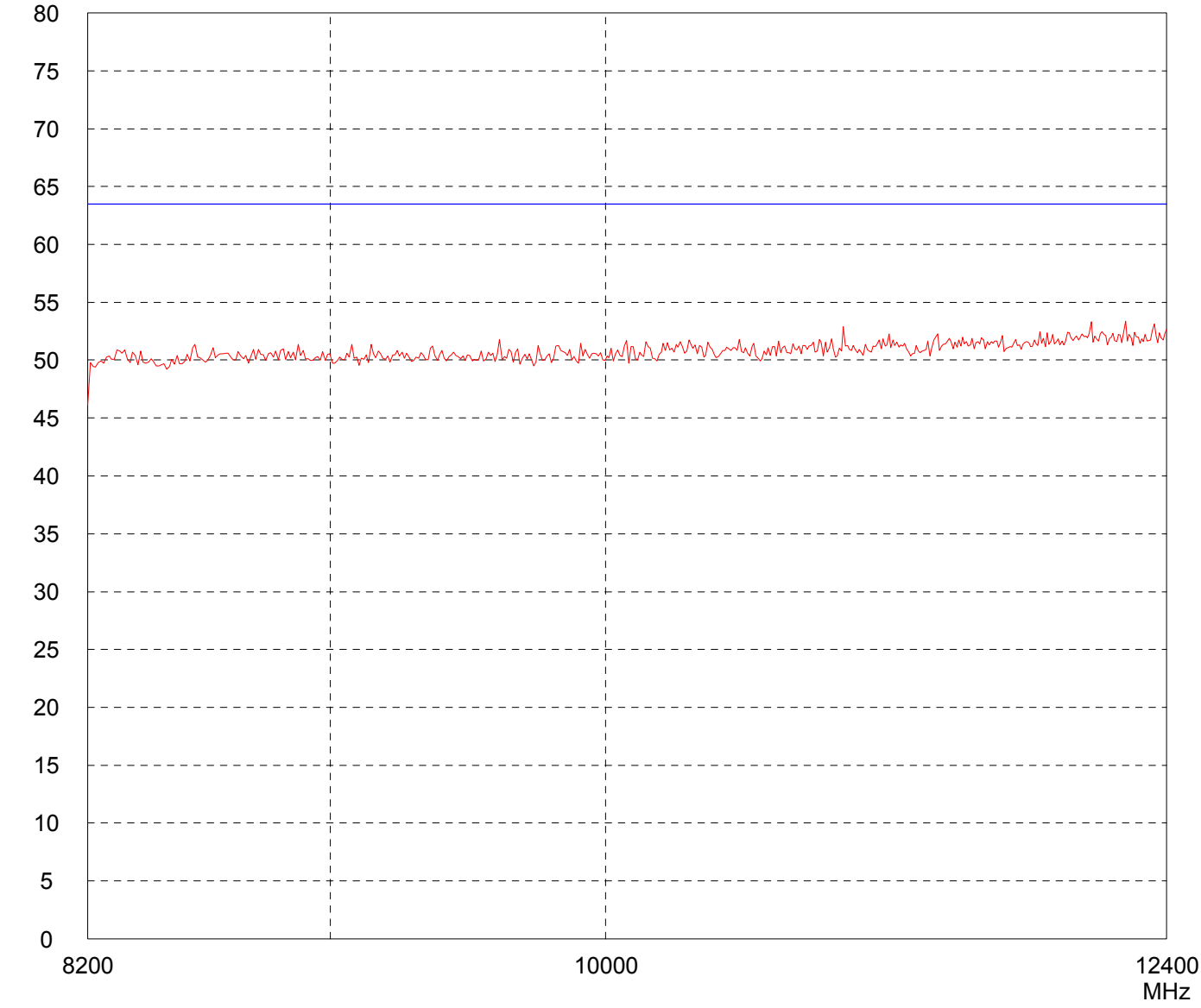
Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 927.48 MHz (High channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 08/29/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m — Limit1: FCC Part 15 (1 m) — Transducer: EMCO 3160



Result: Limit kept	Project file: 56109-60651 Page of Pages

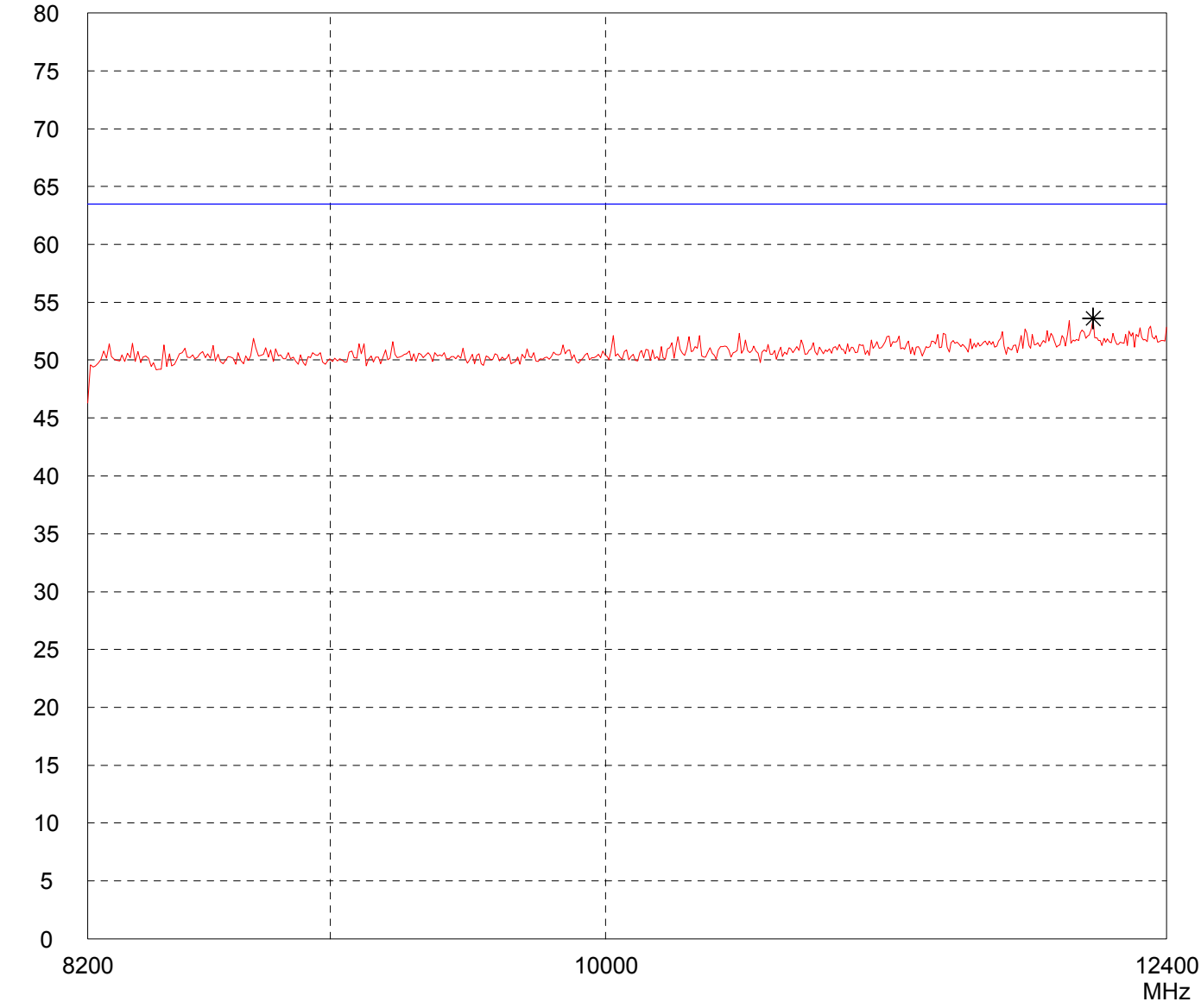
Radiated Emission Test 8.2 GHz - 12.4 GHz
acc. to FCC Part 15 (EMCO 3160)

Model: AC4490-1000 with Nearson SG101N-915	Comment: - TX Mode at 927.48 MHz (High channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 08/29/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

dBµV/m

Limit1: FCC Part 15 (1 m) Transducer: EMCO 3160

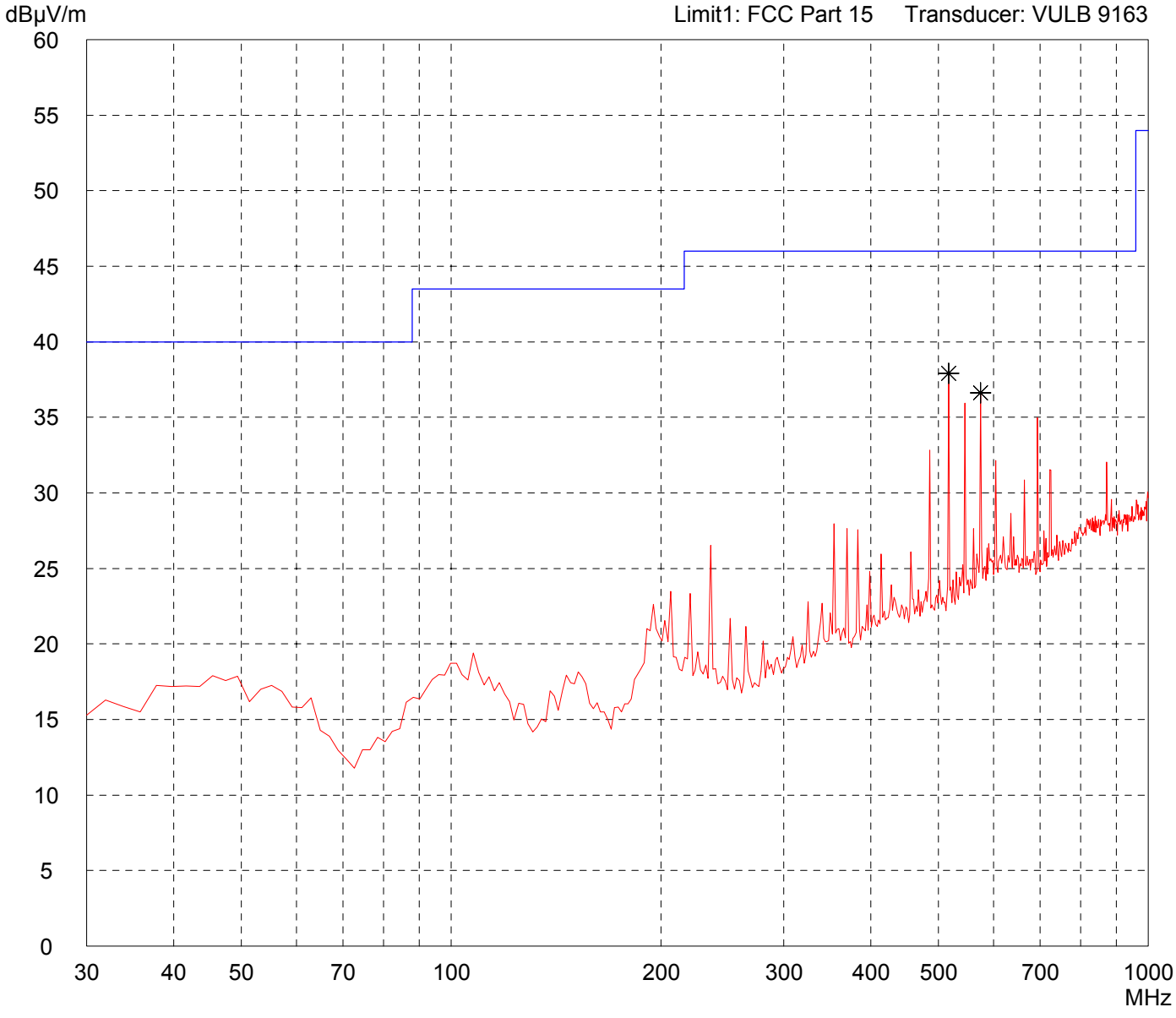


Result: Limit kept	Project file: 56109-60651 Page of Pages

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

Model: AC 4490-1000 with Nearson Omnidirectional SG101-	Comment: - CW RX at 915.37 MHz (Mid Channel) -
Serial no.: N/A	
Applicant: Aerocomm, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/24/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

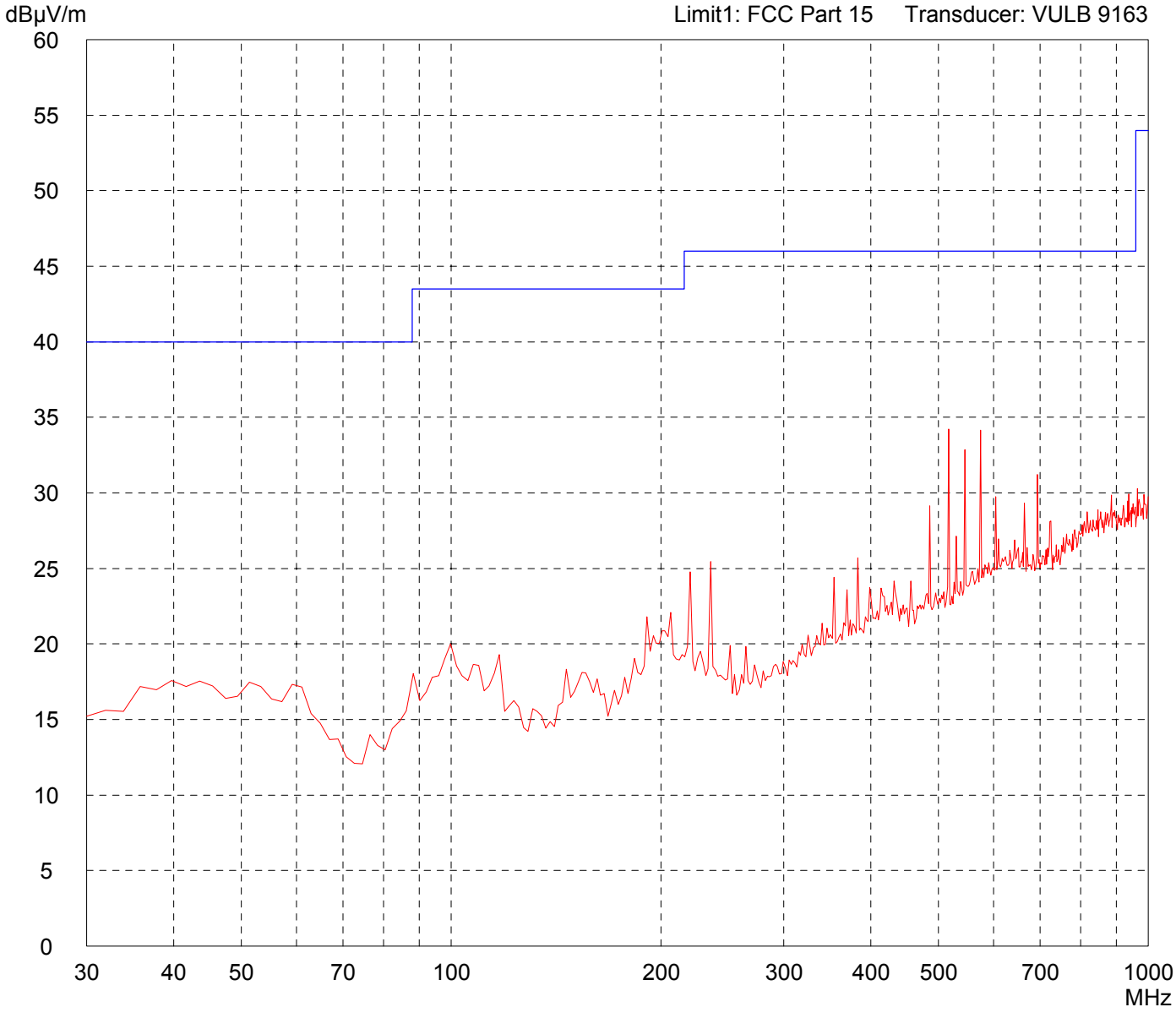


Result: Limit kept	Project file: 56109-60651 Page of Pages

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

Model: AC 4490-1000 with Nearson Omnidirectional SG101-	Comment: - CW RX at 915.37 MHz (Mid Channel) -
Serial no.: N/A	
Applicant: Aerocomm, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/24/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

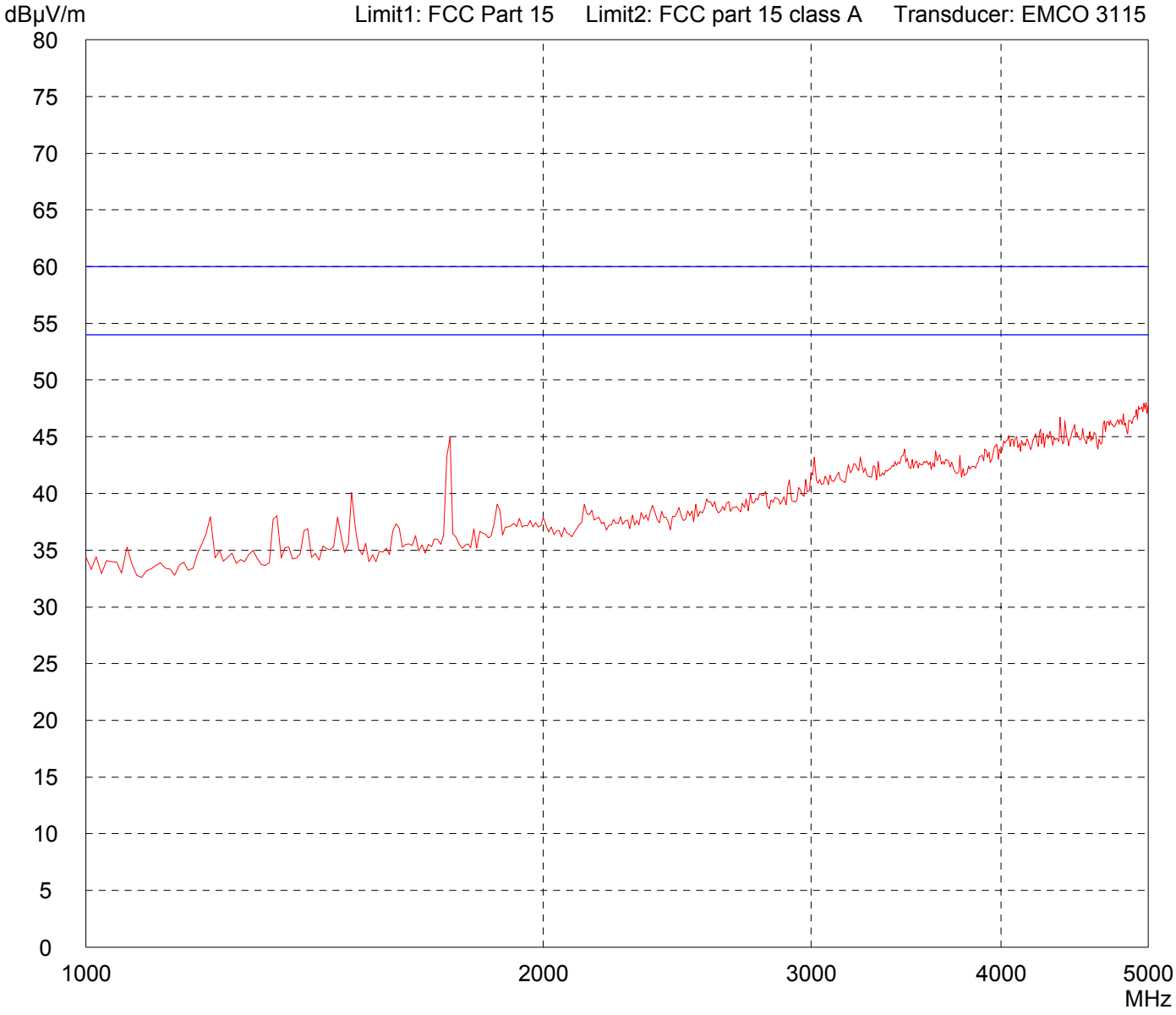


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 5 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson Omnidirectional SG101-	Comment: - RX Mode at 915.37 MHz (Mid Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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

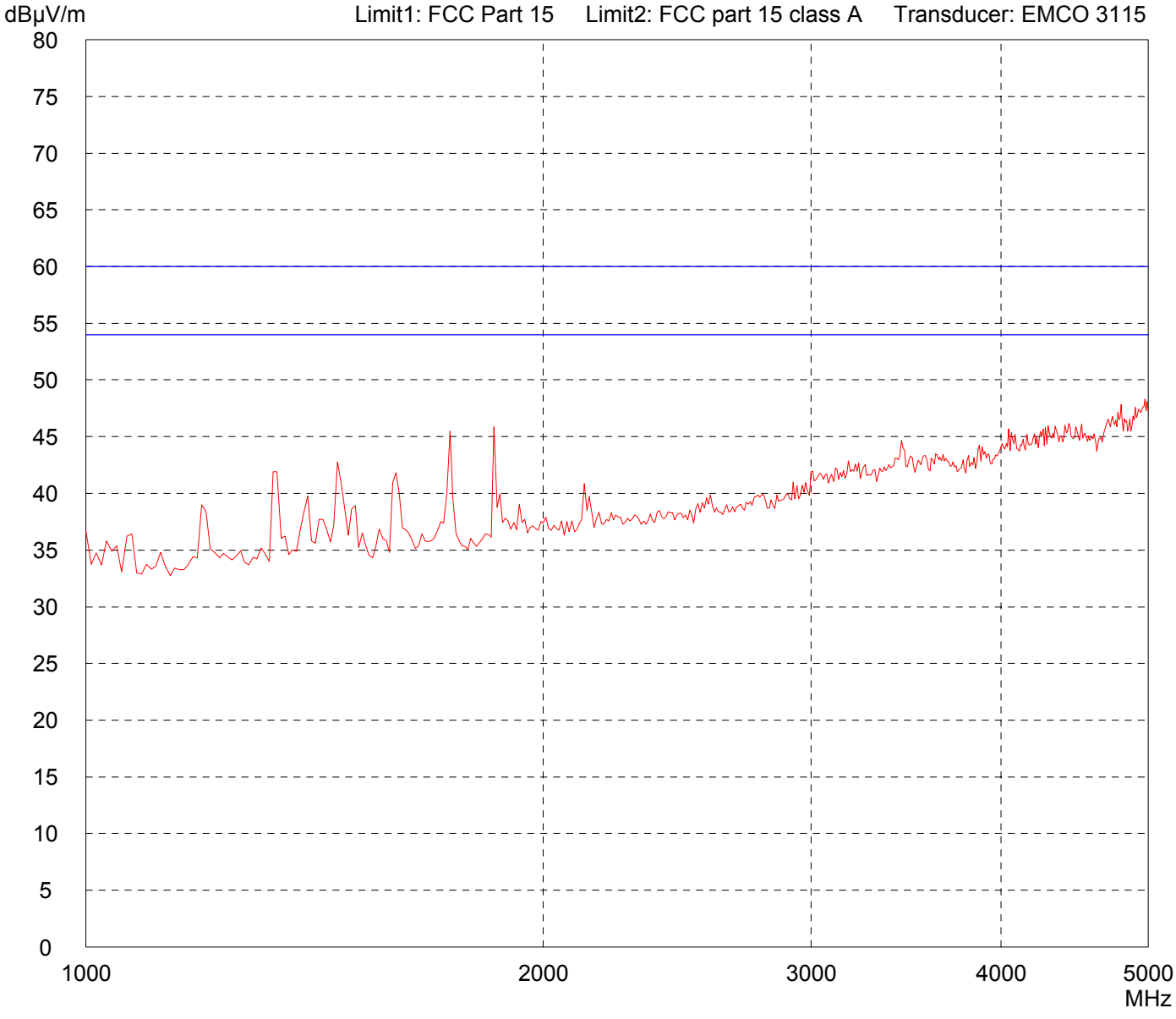


Result: Limit kept	Project file: 56109-60651 Page of Pages

Radiated Emission Test 1 GHz - 5 GHz
acc. to FCC Part 15 (EMCO 3115)

Model: AC4490-1000 with Nearson Omnidirectional SG101-	Comment: - RX Mode at 915.37 MHz (Mid Channel)
Serial no.: ---	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 08/25/2006 / Operator: J. Roidt	
Test performed: automatically / File name: default.emi	

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



Result: Limit kept	Project file: 56109-60651 Page of Pages